

**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):**

**8/28/23**

**Calibration Date: 8/28/23**

**Worklist #:**

**6483**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0802 g/100cc	
					0.0833 g/100cc	
					g/100cc	
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2025 g/100cc	
					<del>0.2027</del> g/100cc	
					0.2047 g/100cc	
<b>Multi-Component mixture:</b>		<b>Exp:</b>	<b>Oct. 2024</b>	<b>Lot #</b>	FN06041902	
<b>Curve Fit:</b>			<b>Column 1</b>	0.99945	<b>Column2</b>	0.99939

AB

8/29/23

**Ethanol Calibration Reference Material**

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0541	0.0543	0.0002	0.0542
100	0.100	0.090 - 0.110	0.1009	0.1011	0.0002	0.101
200	0.200	0.180 - 0.220	0.1940	0.1937	0.0003	0.1938
300	0.300	0.270 - 0.330	0.2976	0.2972	0.0004	0.2974
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5032	0.5034	0.0002	0.5033

**Aqueous Controls**

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.079 g/100cc

AB

**Internal Standard Monitoring Worksheet**




















<b>Worklist #:</b>	<b>6483</b>	<b>Run Date(s):</b>	<b>8/28/23</b>
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Internal Standard Solution:	Prep Date: 6/6/2023	Exp Date: 12/6/2023
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Sample Name	Column 1 Value	Column 2 Value
0.080	201860	218230
0.080	198561	214859
QC1	202089	218608
QC1	203132	220098
QC1	252742	274074
QC1	251753	272973
QC1		
QC1		
QC2	228920	248477
QC2	233826	253635
QC2	253866	275392
QC2	248860	270004
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	227560.9	182048.7	273073.1
Column 2	246635.0	197308.0	295962.0

**Worklist: 6483**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-3450	1	BCK	Alcohol Analysis	
M2023-3561	2	BCK	Alcohol Analysis	
M2023-3562	1	BCK	Alcohol Analysis	
M2023-3585	1	BCK	Alcohol Analysis	
M2023-3609	1	BCK	Alcohol Analysis	
M2023-3610	1	BCK	Alcohol Analysis	
M2023-3623	1	BCK	Alcohol Analysis	
M2023-3637	1	BCK	Alcohol Analysis	
M2023-3638	1	BCK	Alcohol Analysis	
M2023-3651	1	BCK	Alcohol Analysis	
M2023-3652	1	BCK	Alcohol Analysis	
M2023-3653	1	BCK	Alcohol Analysis	
M2023-3661	1	BCK	Alcohol Analysis	
M2023-3683	1	BCK	Alcohol Analysis	
M2023-3684	1	BCK	Alcohol Analysis	
M2023-3684	2	BCK	Alcohol Analysis	
M2023-3685	1	BCK	Alcohol Analysis	
M2023-3702	5	UCK	Alcohol Analysis	
M2023-3702	6	UCK	Alcohol Analysis	



# Calibration Table

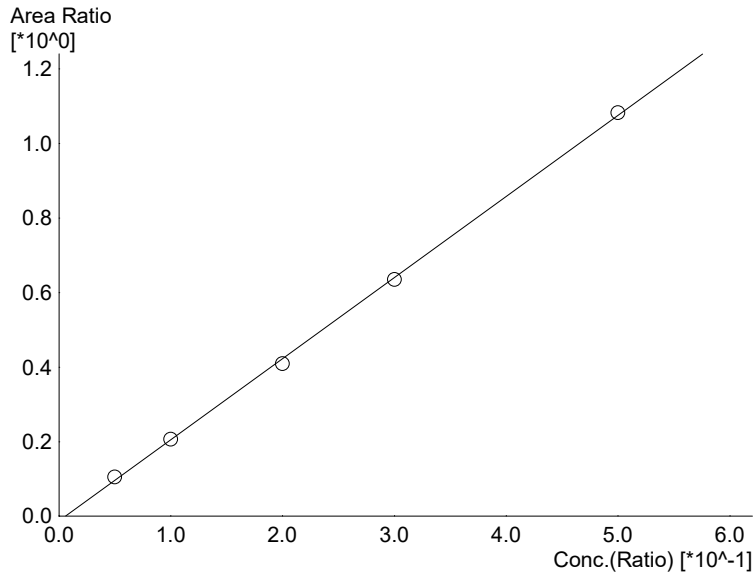
Laboratory : MERIDIAN  
 Instrument Name : GC-BAC  
 Instrument Serial # : C12595800409 / C12255750548

<<Method File>>  
 Method File :Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Date Created :8/28/2023 8:06:04 AM  
 Date Modified :8/28/2023 11:47:33 AM



Name : Methanol  
 Detector Name: FID1  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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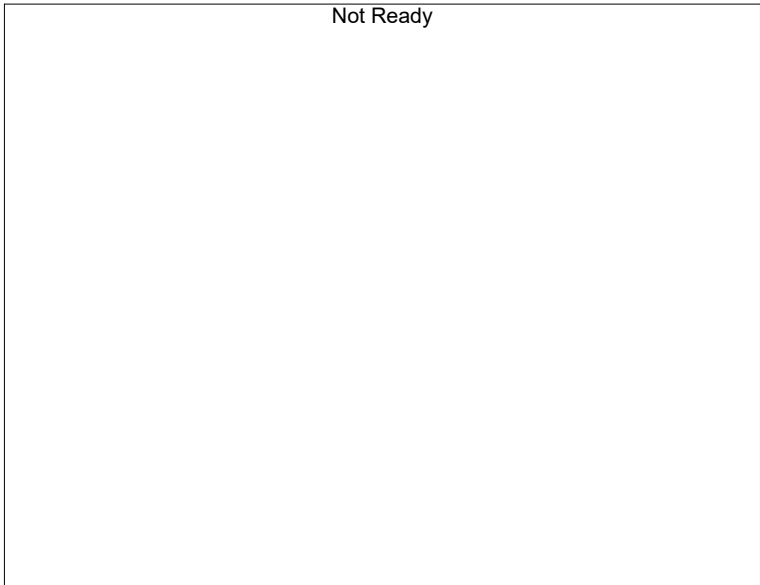


Name : Ethanol  
 Detector Name: FID1  
 Function :  $f(x)=2.17631*x-0.0129233$   
 R<sup>2</sup> value= 0.9994523  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	21125	0.0541
2	0.100	42605	0.1009
3	0.200	82056	0.1940
4	0.300	128807	0.2976
5	0.500	232076	0.5032

*NB*





Name : Isopropyl Alcohol  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Acetone  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Fluor. Hydrocarbon(s)  
Detector Name: FID1  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

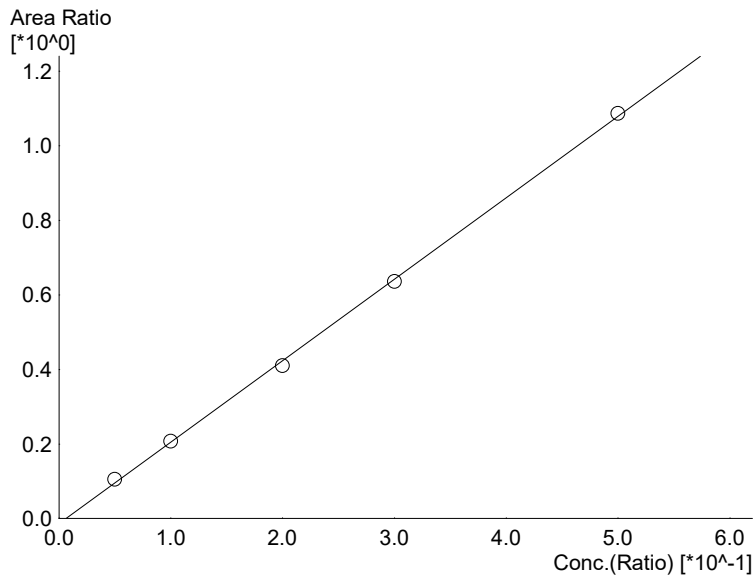
#	Conc.	Area	Std. Conc.
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NB



Name : Methanol  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol  
 Detector Name: FID2  
 Function :  $f(x)=2.18568*x-0.0139519$   
 R<sup>2</sup> value= 0.9993908  
 FitType: Linear  
 ZeroThrough: Not Through

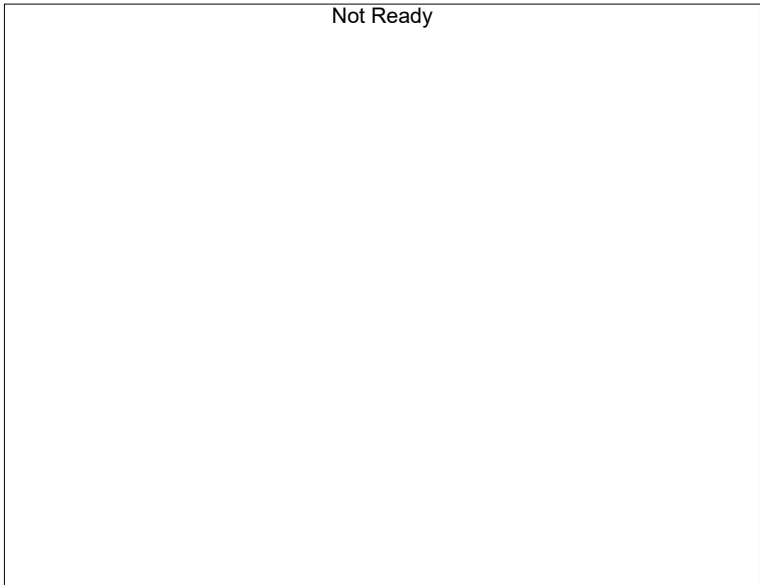
#	Conc.	Area	Std. Conc.
1	0.050	22800	0.0543
2	0.100	46163	0.1011
3	0.200	88742	0.1937
4	0.300	139483	0.2972
5	0.500	252377	0.5034



Name : Acetone  
 Detector Name: FID2  
 Function :  $f(x)=0*x+0$   
 R<sup>2</sup> value= 0  
 FitType: Linear  
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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NB



Name : Isopropyl Alcohol  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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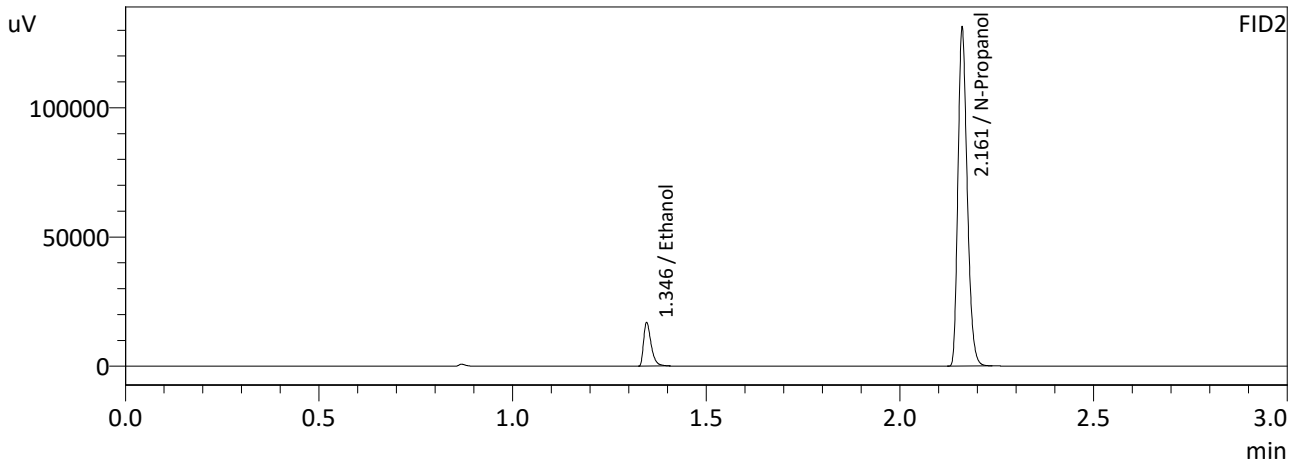
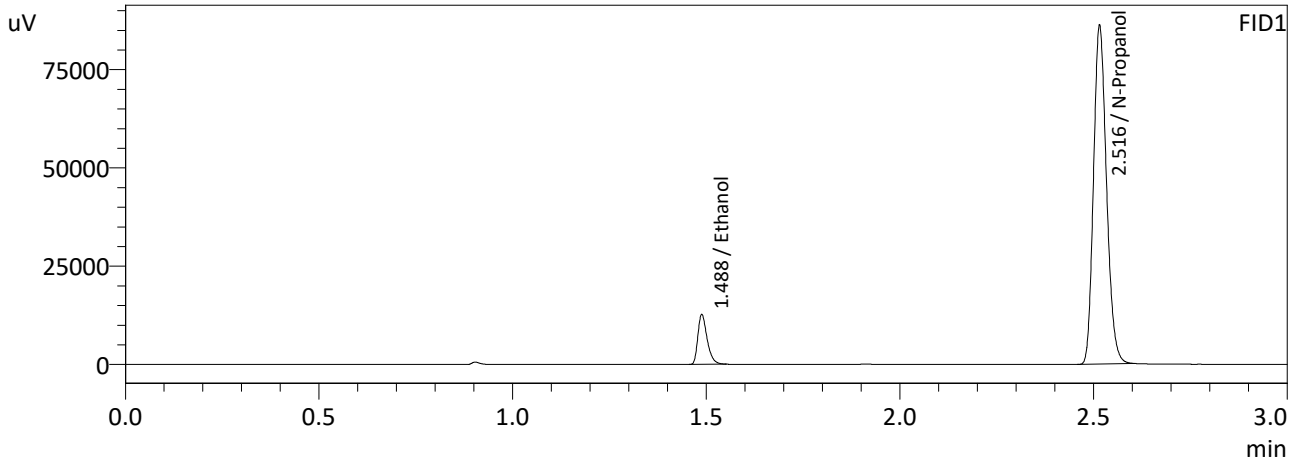


Name : Flour. Hydrocarbon(s)  
Detector Name: FID2  
Function :  $f(x)=0*x+0$   
R<sup>2</sup> value= 0  
FitType: Linear  
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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NB

Sample Name : 0.050  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 11:13:33 AM  
 Vial # : 1  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

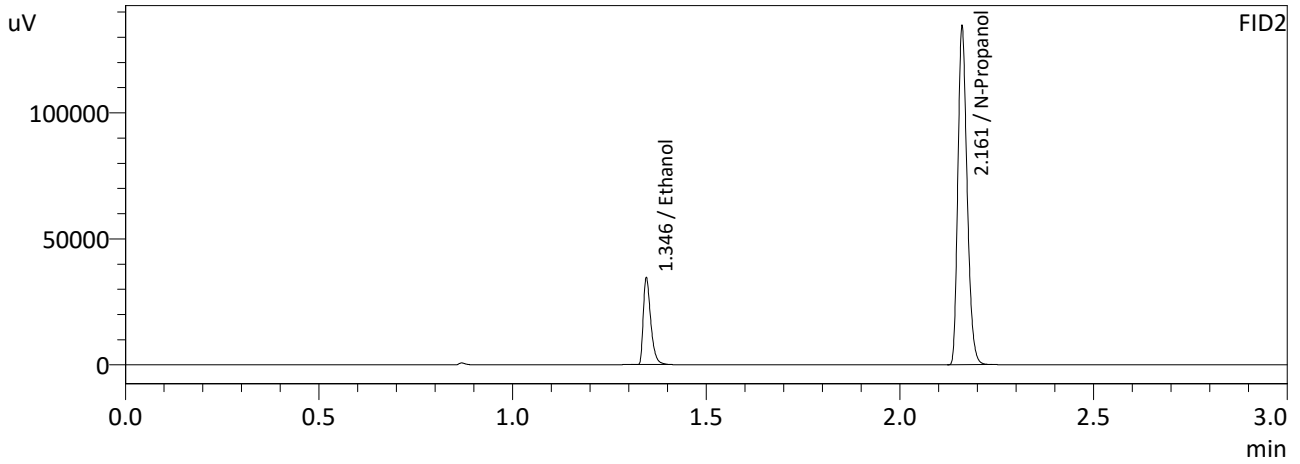
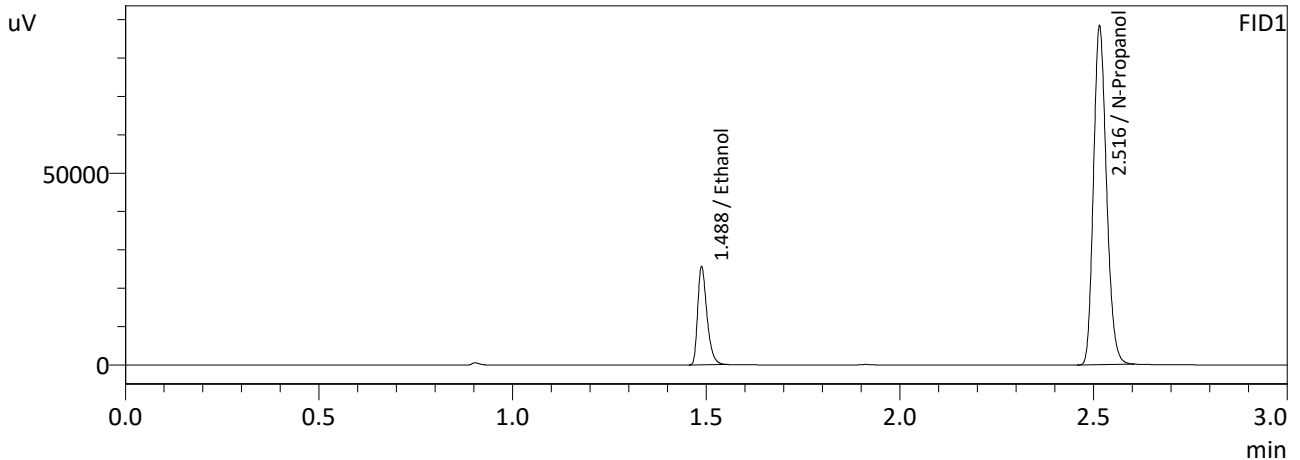
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0541	21125	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201161	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0543	22800	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	217560	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.100  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 11:20:54 AM  
 Vial # : 2  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

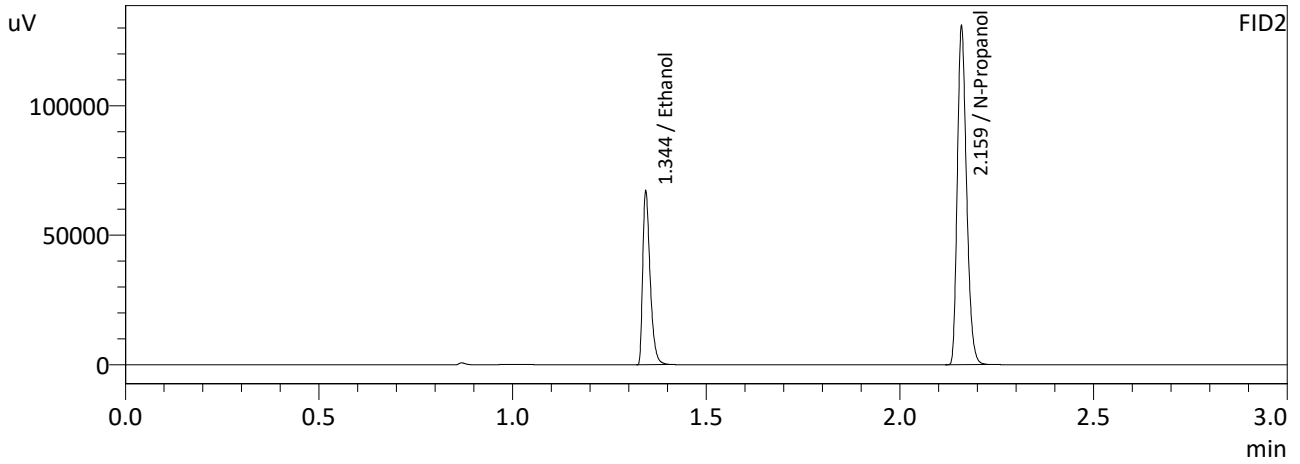
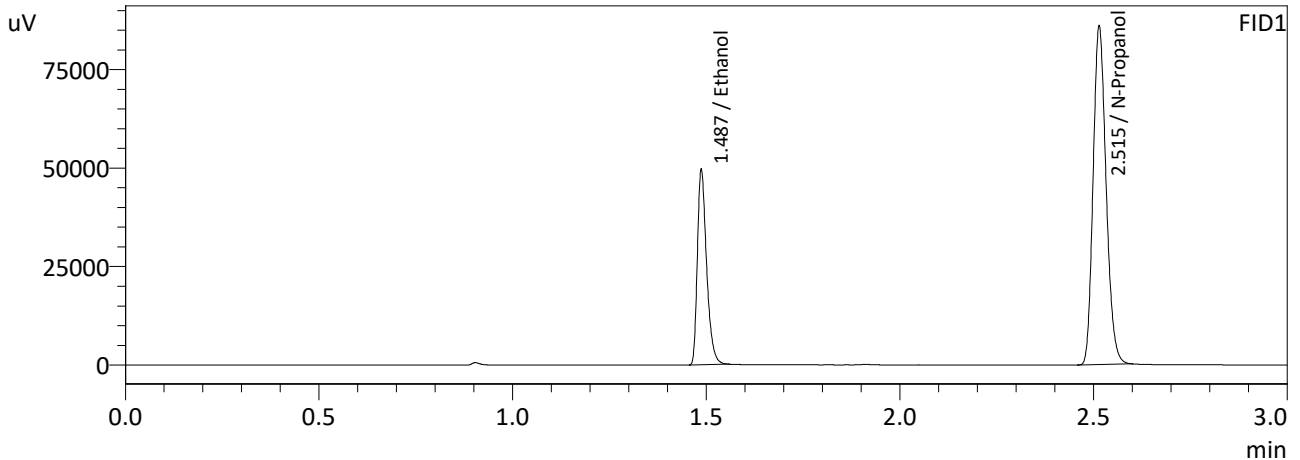
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1009	42605	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	206029	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1011	46163	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222878	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.200  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 11:28:34 AM  
 Vial # : 3  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

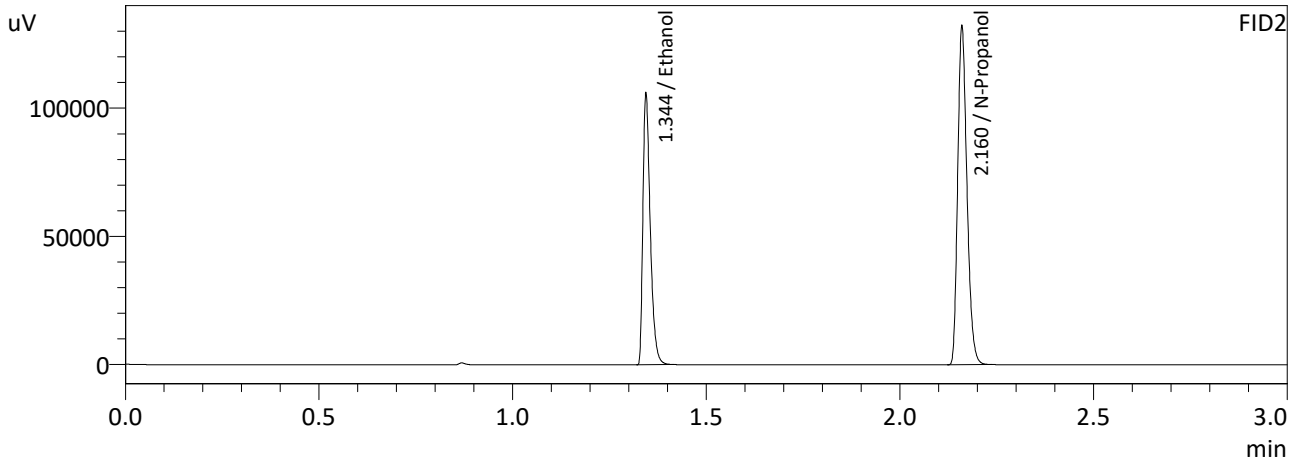
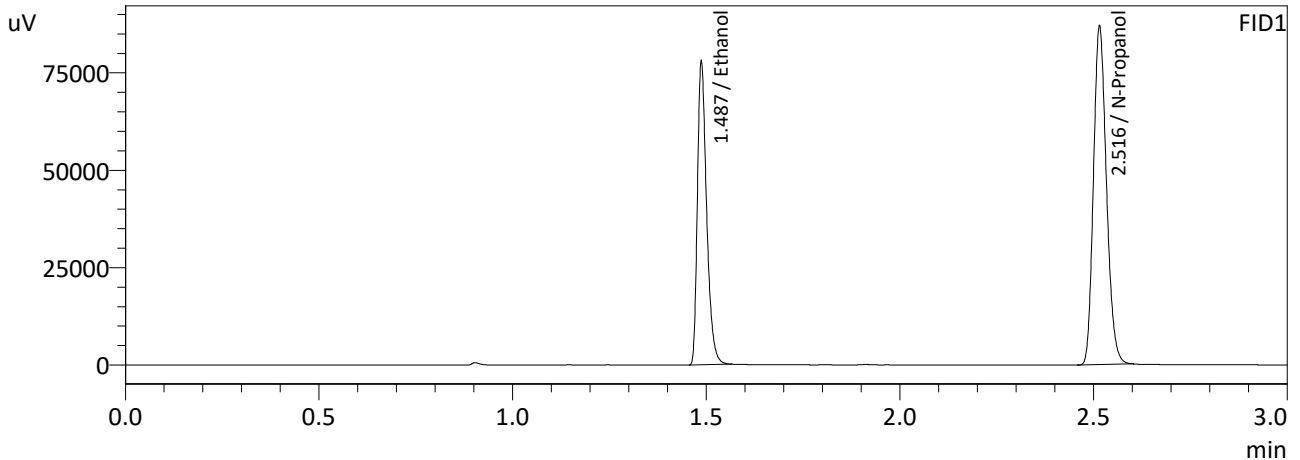
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1940	82056	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200461	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1937	88742	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	216647	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.300  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 11:37:13 AM  
 Vial # : 4  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

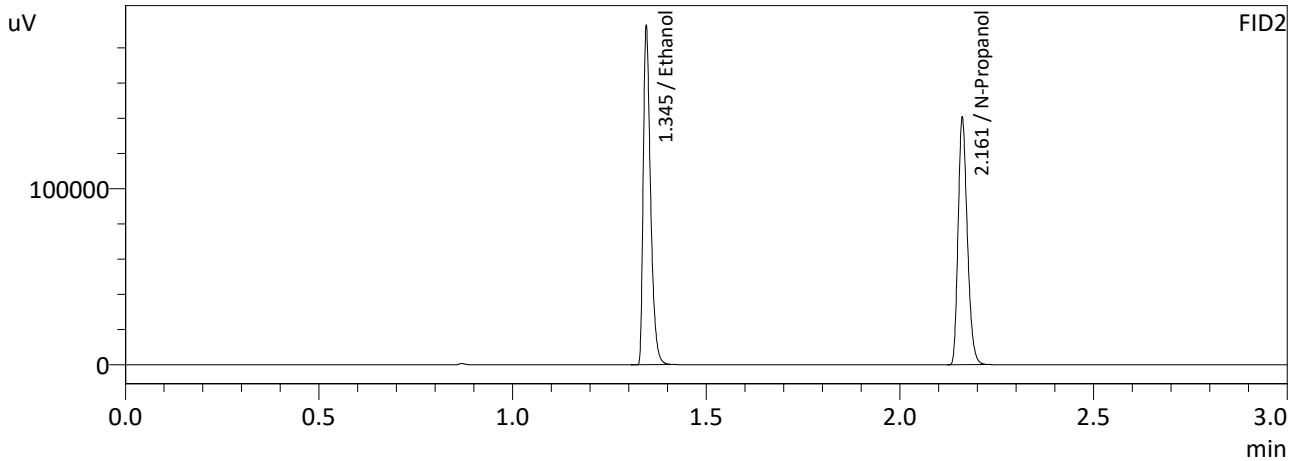
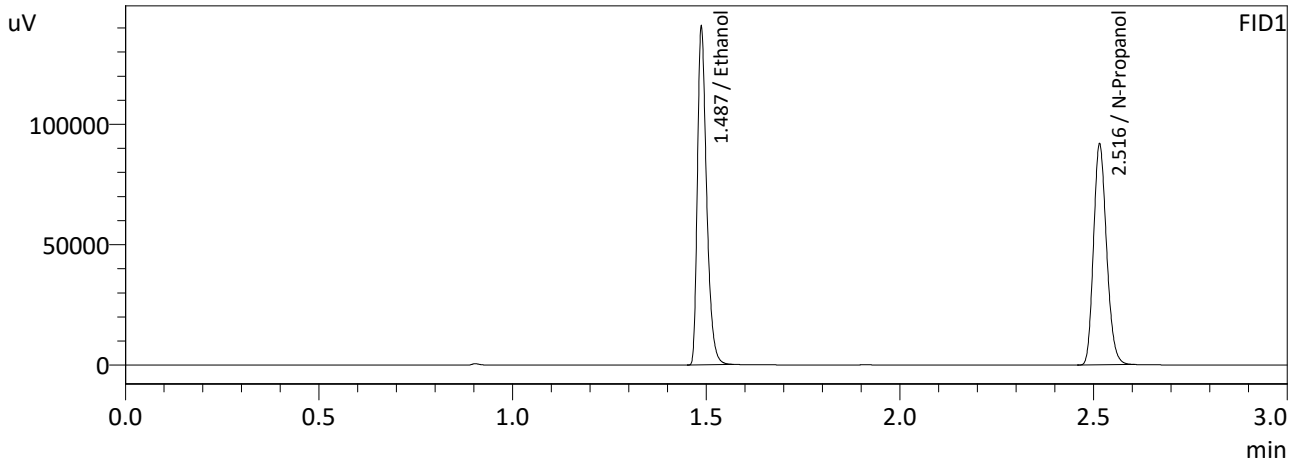
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2976	128807	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202916	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2972	139483	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	219387	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.500  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 11:44:31 AM  
 Vial # : 5  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5032	232076	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	214446	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

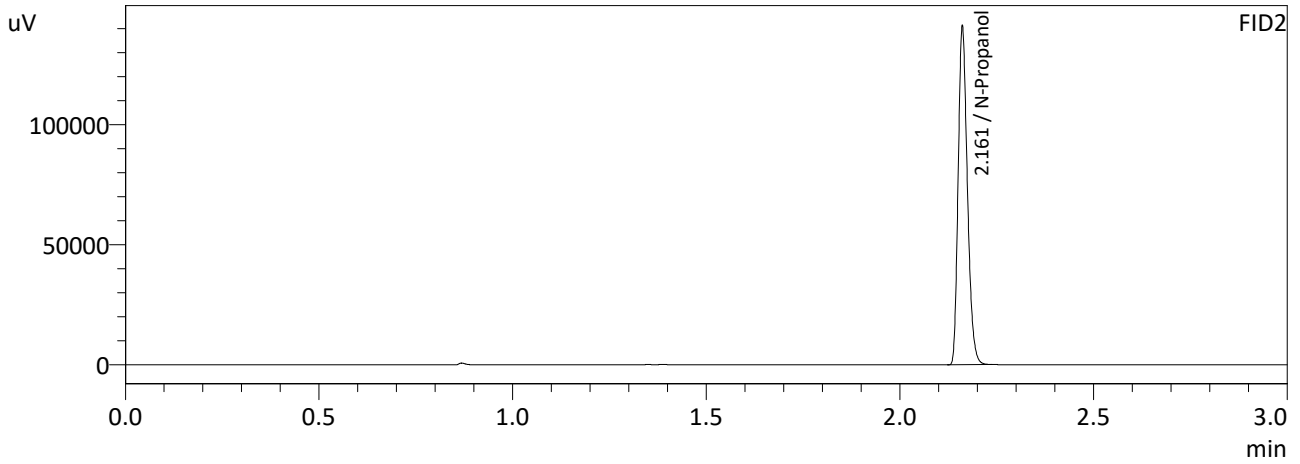
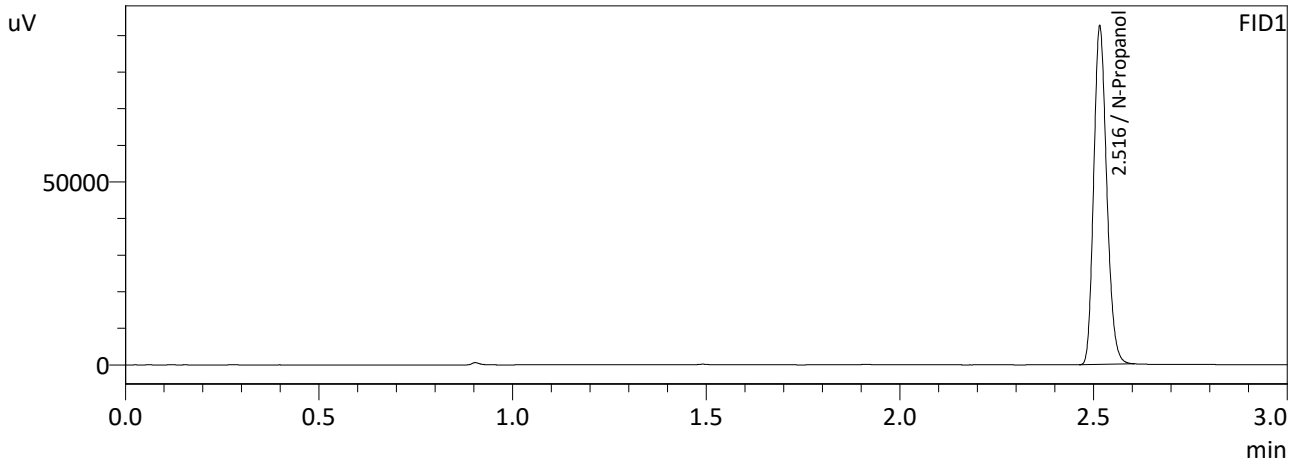
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5034	252377	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	232296	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB



Sample Name : INT STD BLK  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 11:53:34 AM  
 Vial # : 6  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.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	215744	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	233715	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

# Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548  
Shimadzu HS-20 Serial #C12595800409  
Lab Solutions Database Software Ver. 6.111  
Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(I)	1	ALCOHOL 230828NB.GCM.gcm
2	0.100	1:Standard	2	ALCOHOL 230828NB.GCM.gcm
3	0.200	1:Standard	3	ALCOHOL 230828NB.GCM.gcm
4	0.300	1:Standard	4	ALCOHOL 230828NB.GCM.gcm
5	0.500	1:Standard	5	ALCOHOL 230828NB.GCM.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA		Analysis Date(s): 8/28/2023 1:29:01 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0794	0.0794	0.0000	0.0794	0.0007	0.0797
(g/100cc)	0.0801	0.0801	0.0000	0.0801		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230828NB.GCM.gcm

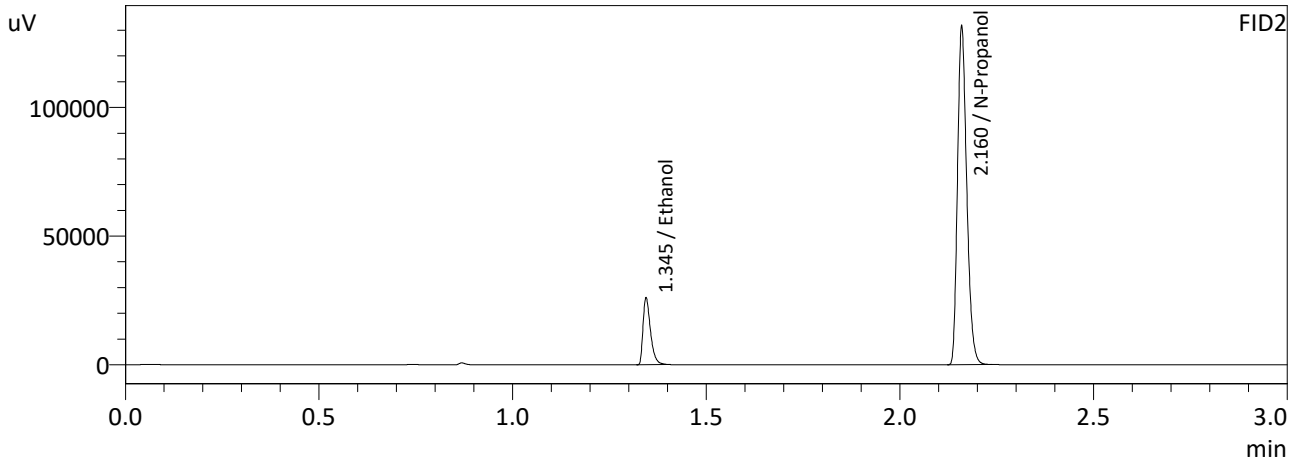
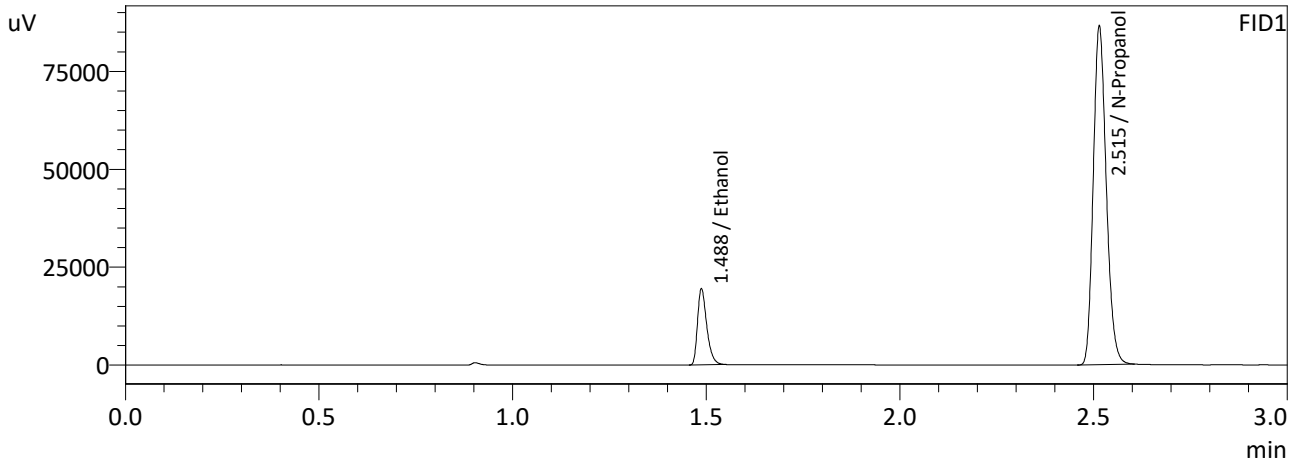
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.079	0.075	0.083	0.004

Reported Results	
0.079	

Calibration and control data are stored centrally.

NB

Sample Name : 0.08 QA  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 1:29:01 PM  
 Vial # : 5  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

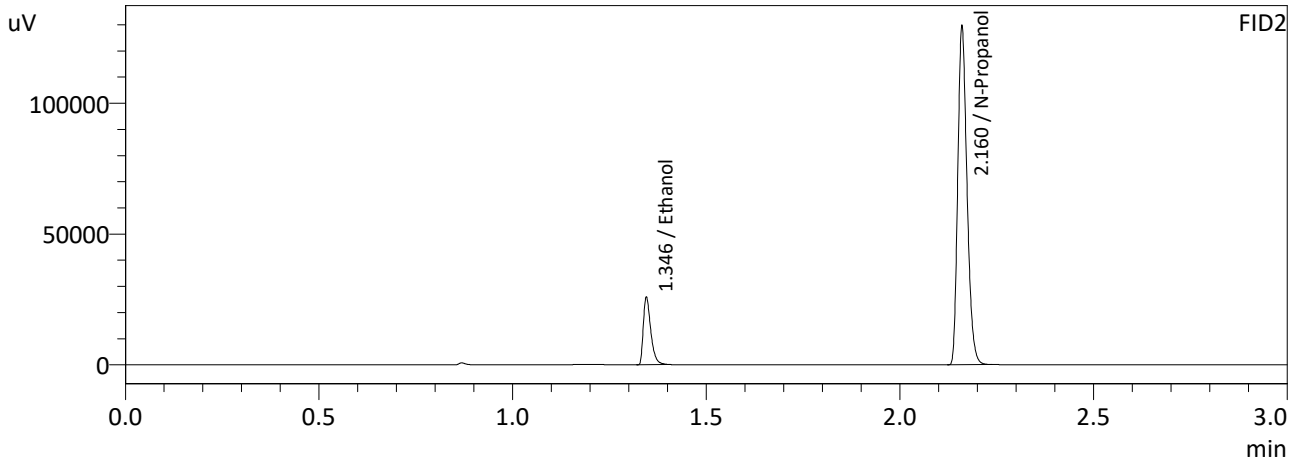
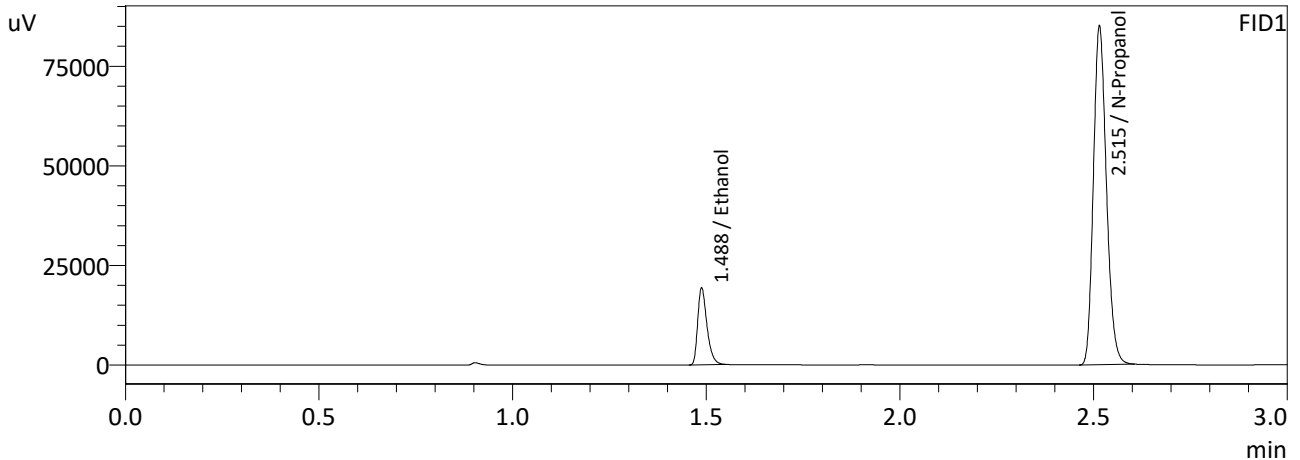
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	32287	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201860	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	34866	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218230	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : 0.08 QA-B  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 1:36:29 PM  
 Vial # : 6  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	32071	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198561	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	34653	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	214859	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1

Analysis Date(s): 8/28/2023 1:11:42 PM(-06:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0803	0.0802	0.0001	0.0802	0.0001	0.0802
(g/100cc)	0.0802	0.0801	0.0001	0.0801		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230828NB.GCM.gcm

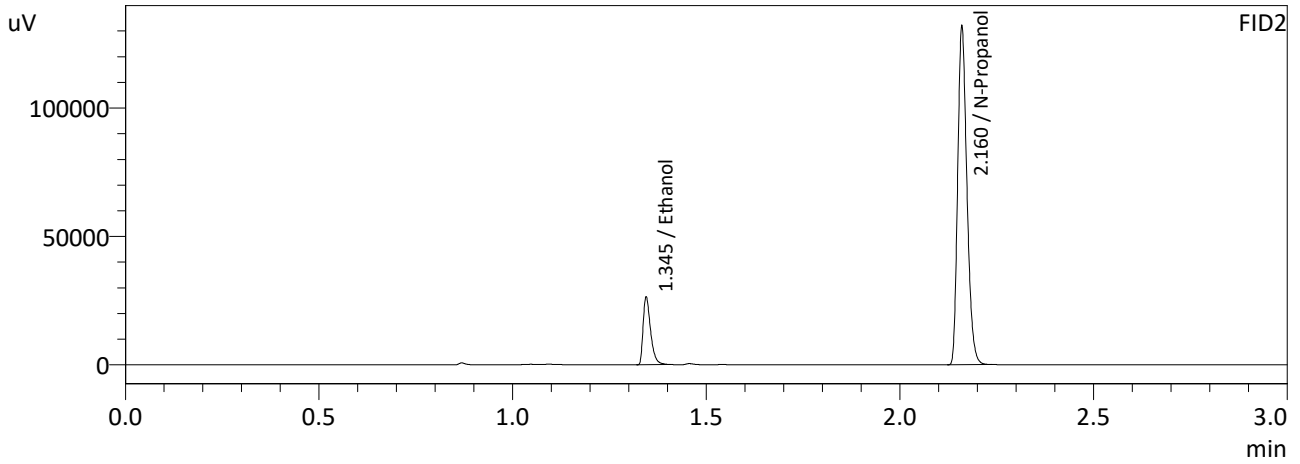
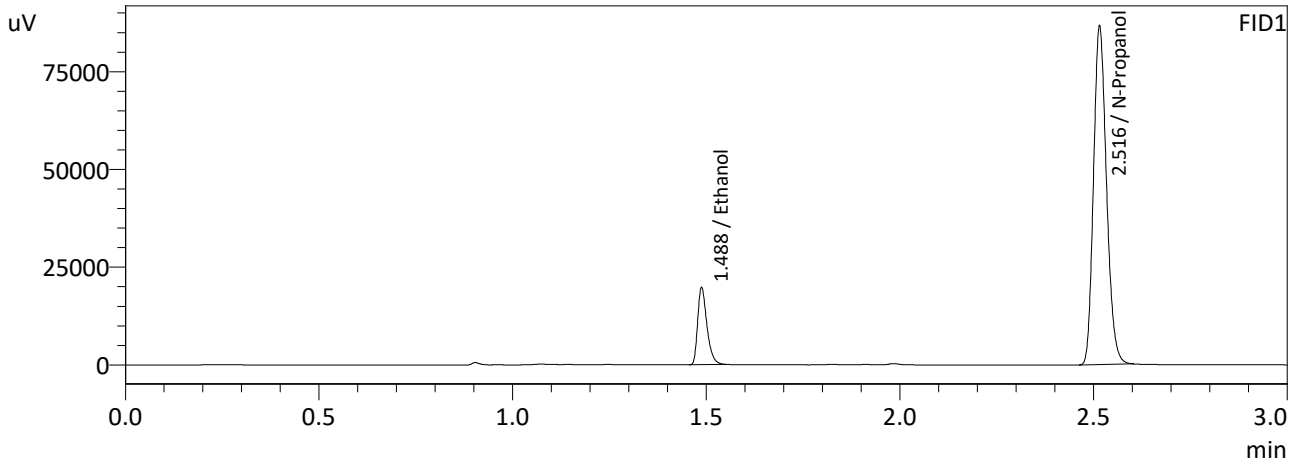
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.080	0.076	0.084	0.004

Reported Results	
0.080	

Calibration and control data are stored centrally.

NB

Sample Name : QC-1-1  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 1:11:42 PM  
 Vial # : 3  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

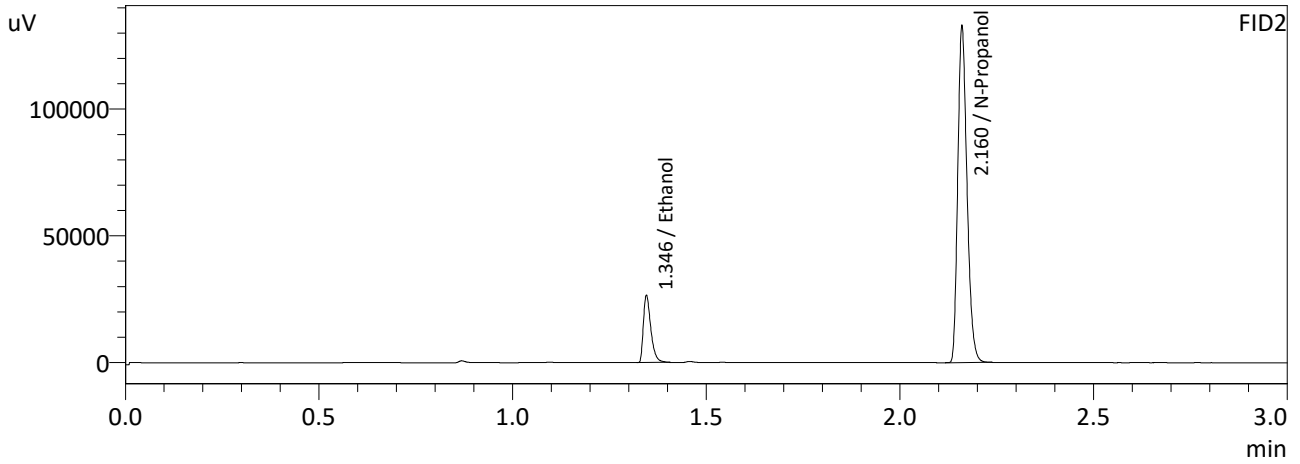
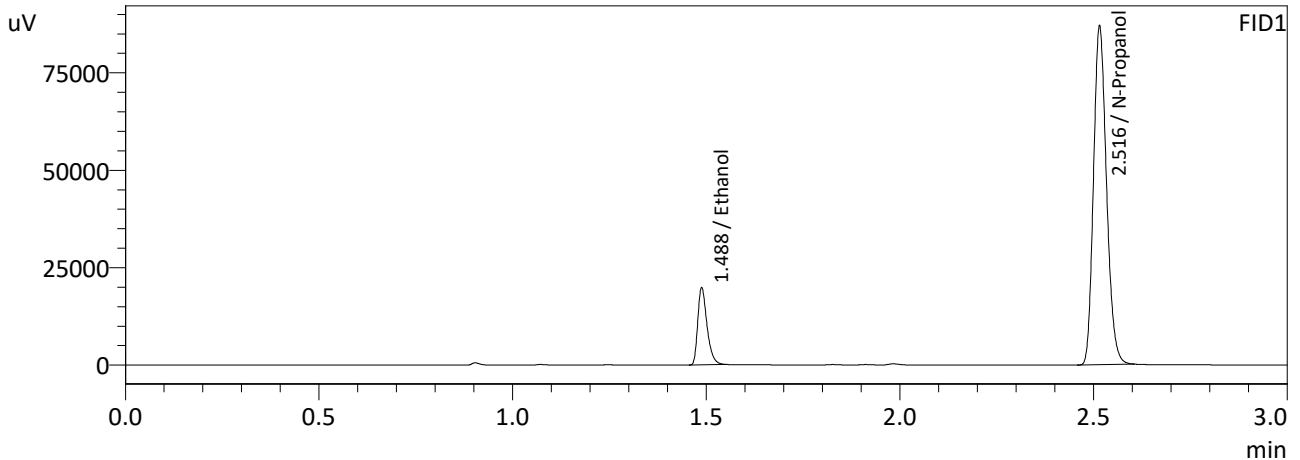
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0803	32741	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202089	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0802	35293	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	218608	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC-1-1-B  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 1:20:25 PM  
 Vial # : 4  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0802	32867	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203132	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	35501	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220098	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB



VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2		Analysis Date(s): 8/28/2023 6:50:11 PM(-06:00)				
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0831	0.0832	0.0001	0.0831	0.0004	0.0833
(g/100cc)	0.0835	0.0836	0.0001	0.0835		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230828NB.GCM.gcm

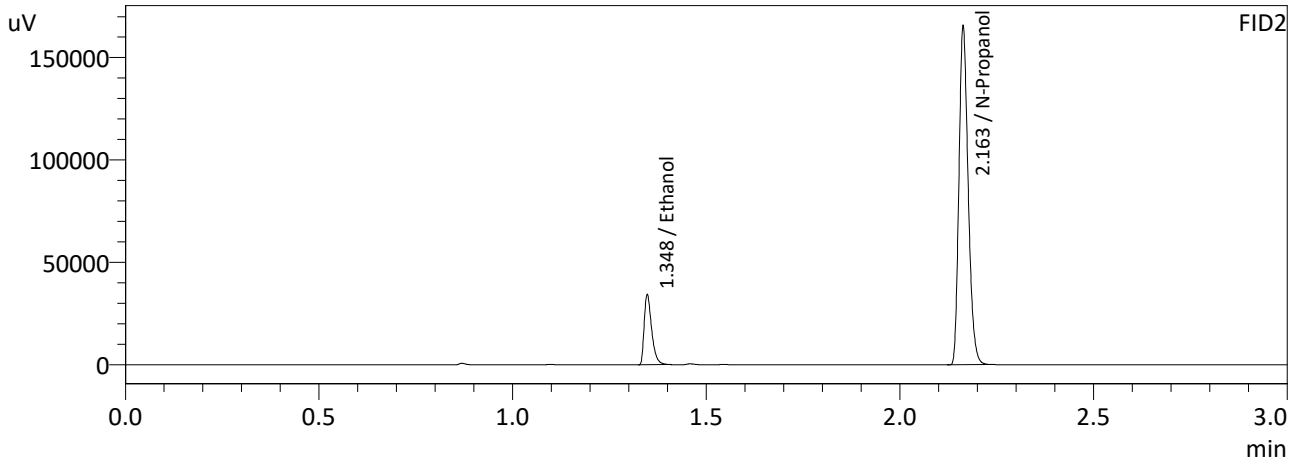
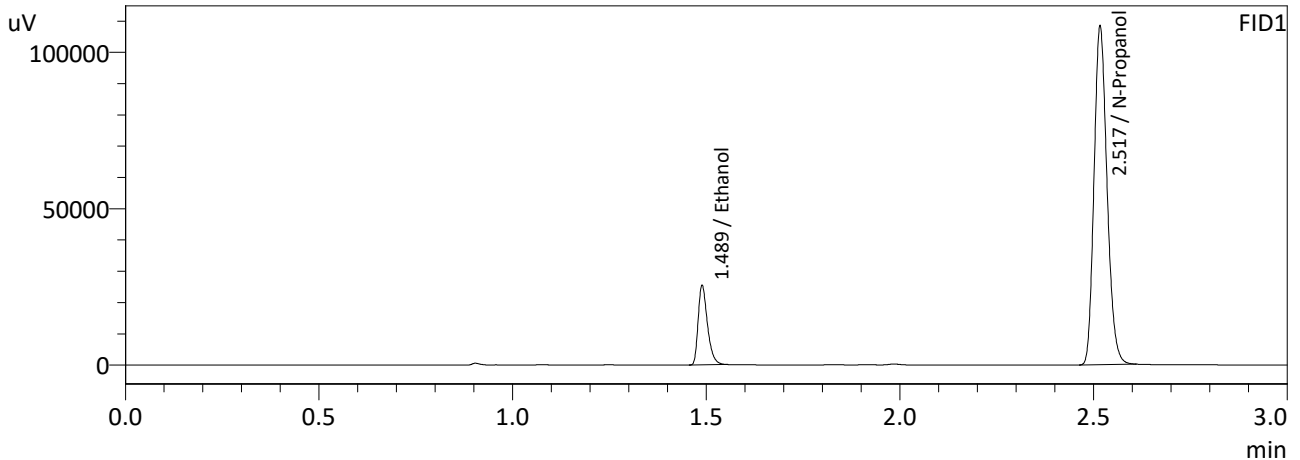
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.083	0.078	0.088	0.005

Reported Results	
0.083	

Calibration and control data are stored centrally.

NB

Sample Name : QC-1-2  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 6:50:11 PM  
 Vial # : 45  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

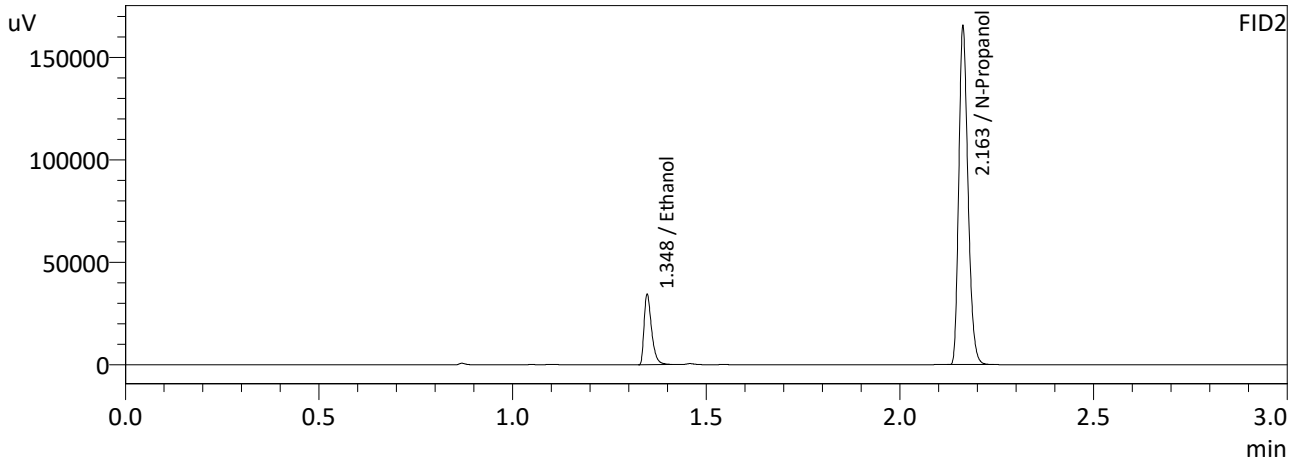
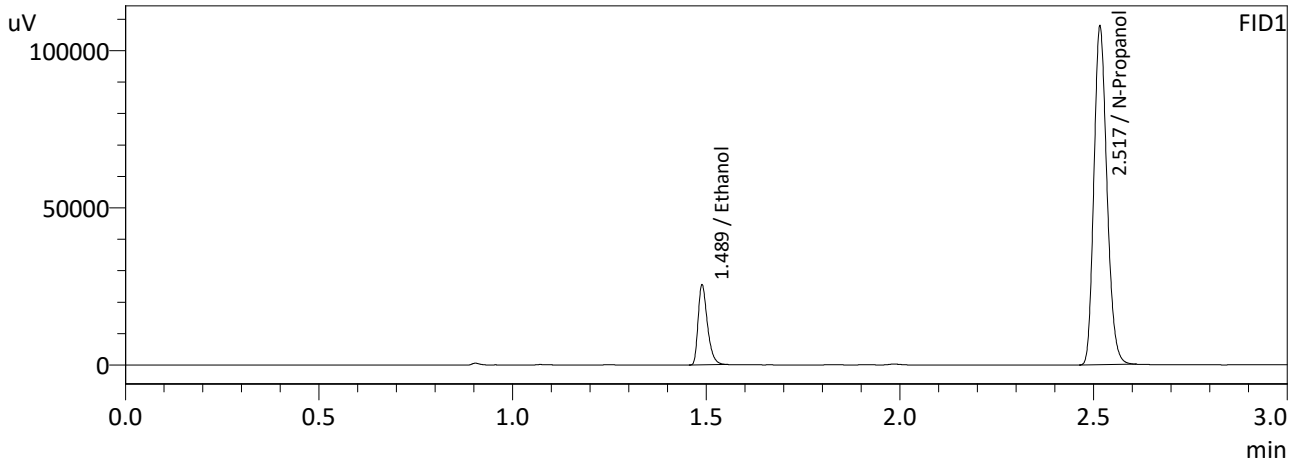
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0831	42464	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	252742	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0832	46035	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	274074	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC-1-2-B  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 6:57:25 PM  
 Vial # : 46  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0835	42518	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	251753	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0836	46081	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	272973	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1		Analysis Date(s): 8/28/2023 4:08:54 PM(-06:00)				
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	
Sample Results	0.2030	0.2026	0.0004	0.2028	0.0006	0.2025
(g/100cc)	0.2024	0.2020	0.0004	0.2022		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230828NB.GCM.gcm

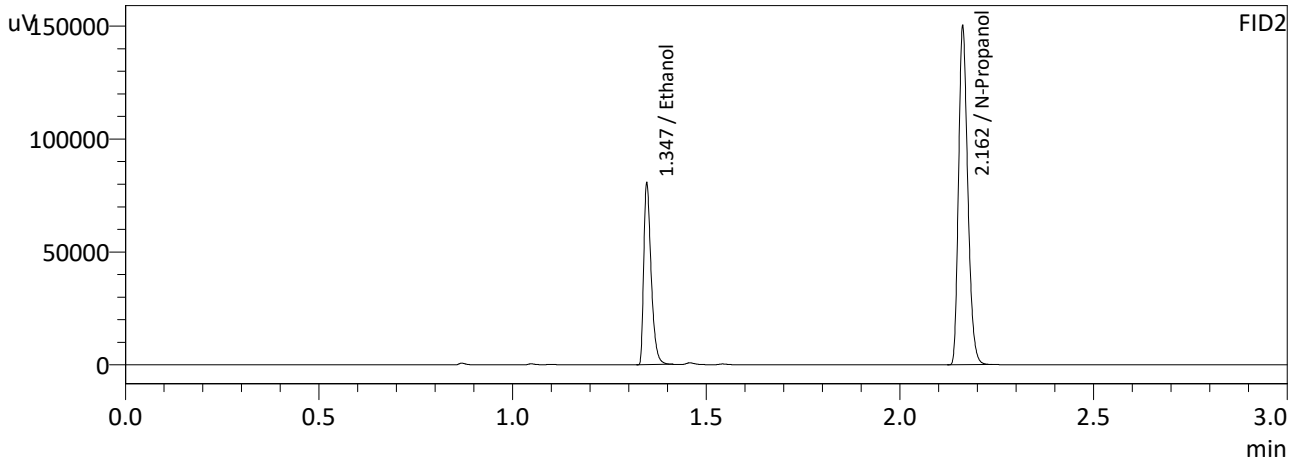
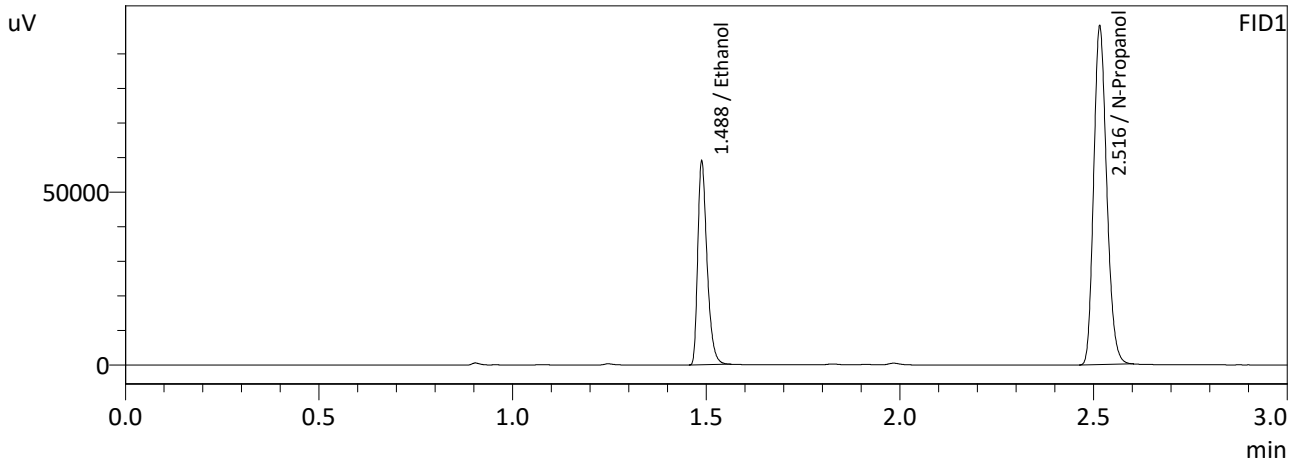
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.202	0.191	0.213	0.011

Reported Results	
0.202	

Calibration and control data are stored centrally.

NB

Sample Name : QC-2-1  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 4:08:54 PM  
 Vial # : 25  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

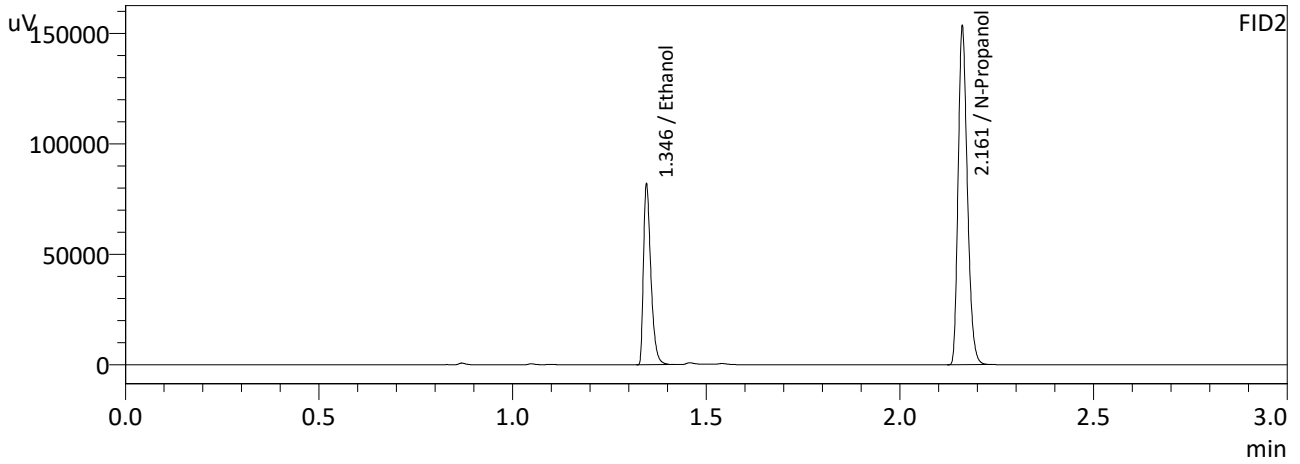
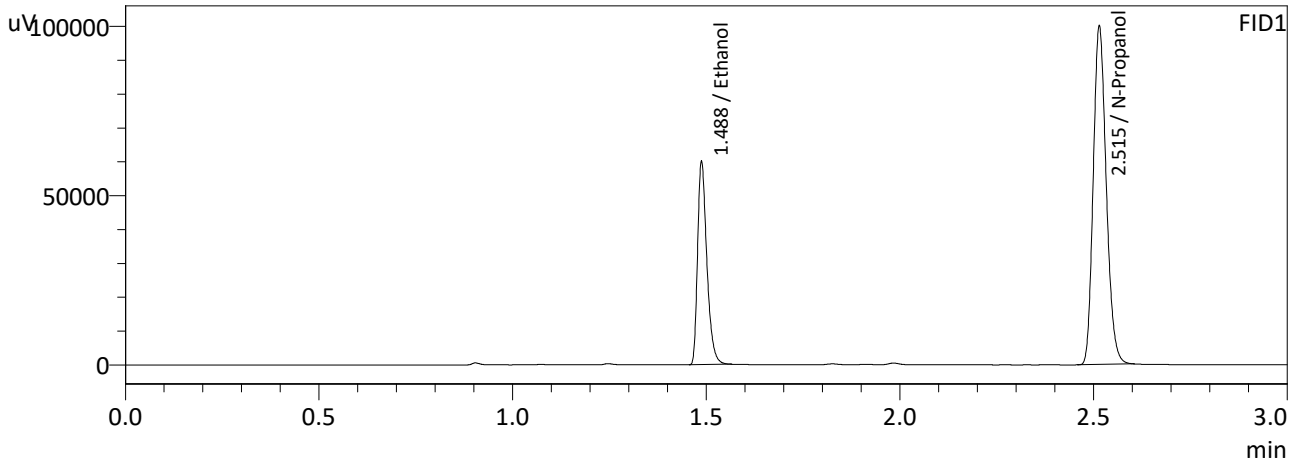
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2030	98197	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228920	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2026	106594	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	248477	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : QC-2-1-B  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 4:16:44 PM  
 Vial # : 26  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2024	100010	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	233826	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2020	108489	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	253635	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC2-2

Analysis Date(s): 8/28/2023 7:05:03 PM(-06:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2047	0.2047	0.0000	0.2047	0.0001	0.2047
(g/100cc)	0.2049	0.2048	0.0001	0.2048		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL\_230828NB.GCM.gcm

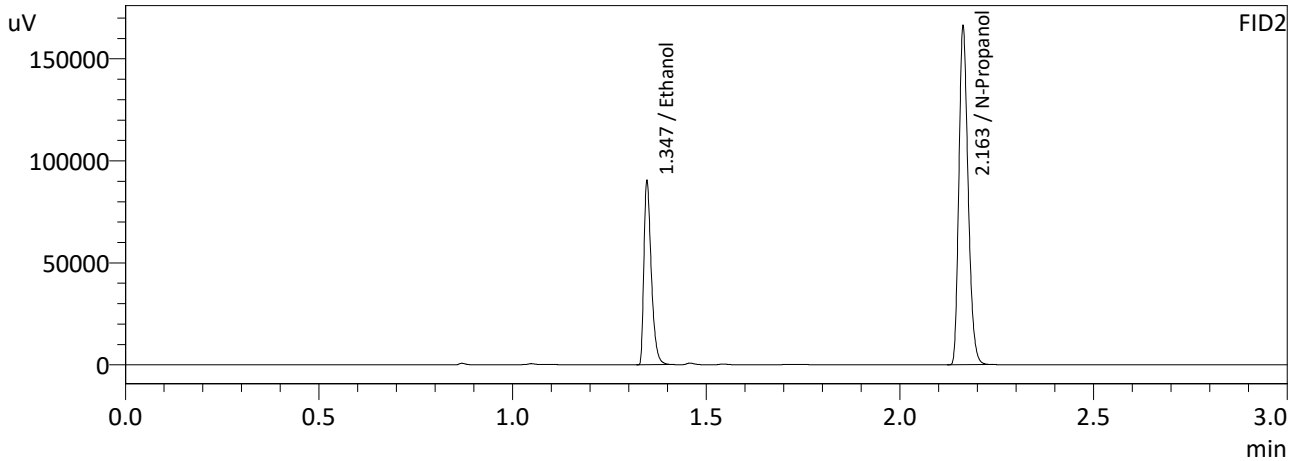
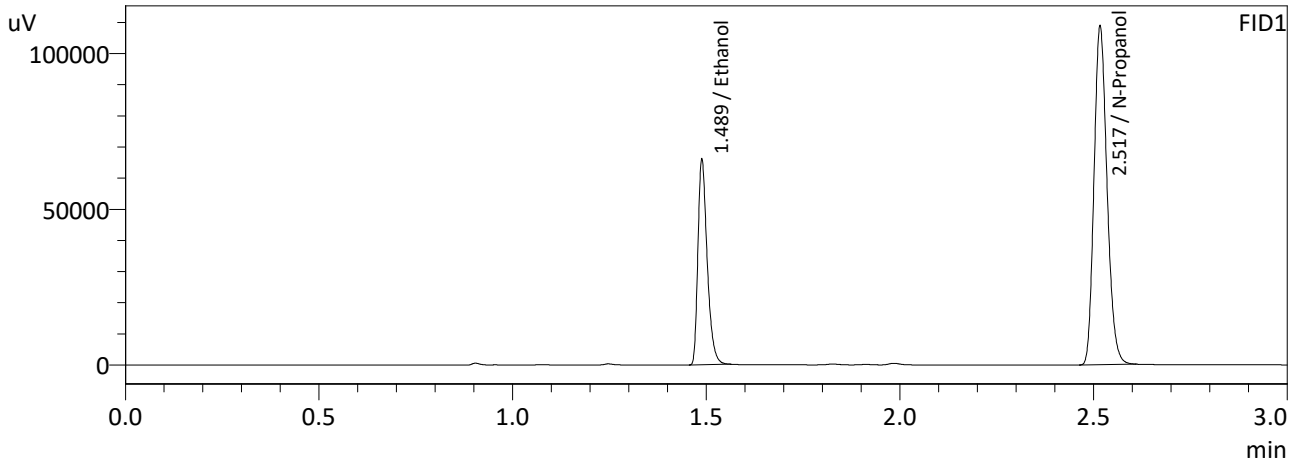
Reporting of Results	Uncertainty of Measurements (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.204	0.193	0.215	0.011

	<b>Reported Results</b>
	0.204

Calibration and control data are stored centrally.

NB

Sample Name : QC2-2  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 7:05:03 PM  
 Vial # : 47  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2047	109845	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	253866	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

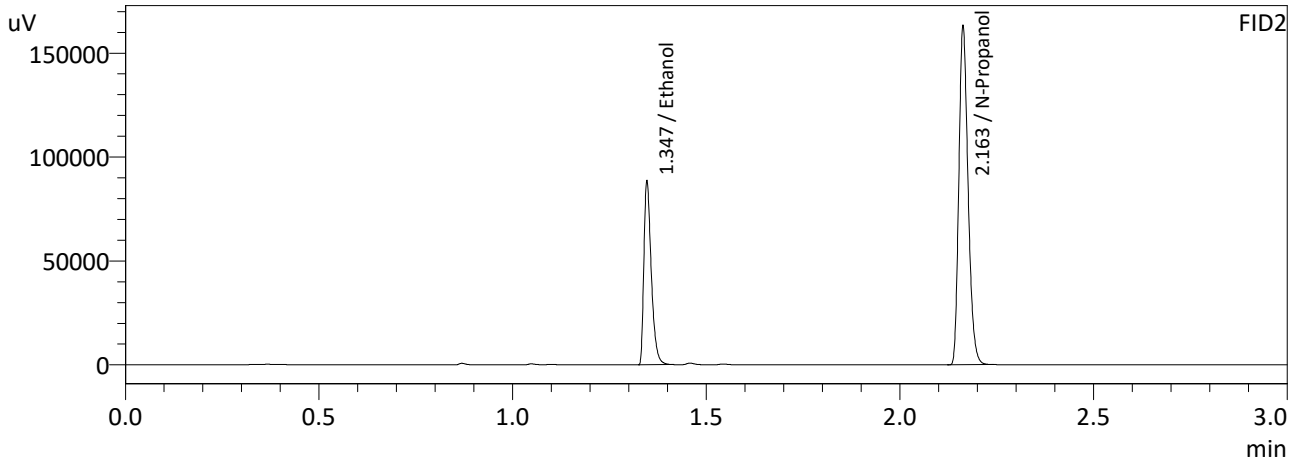
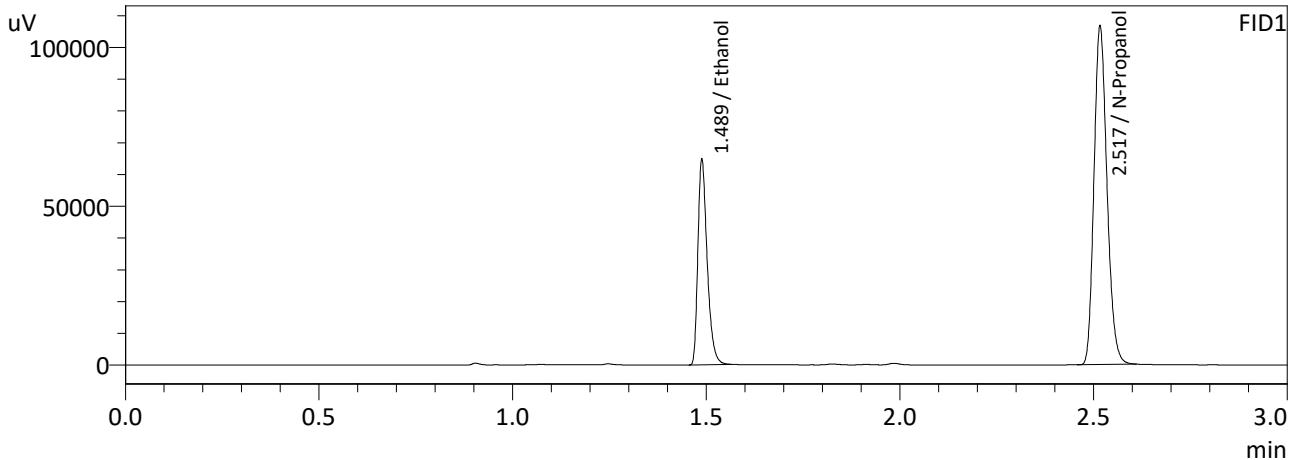
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2047	119399	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	275392	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB



Sample Name : QC2-2-B  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 7:14:01 PM  
 Vial # : 48  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

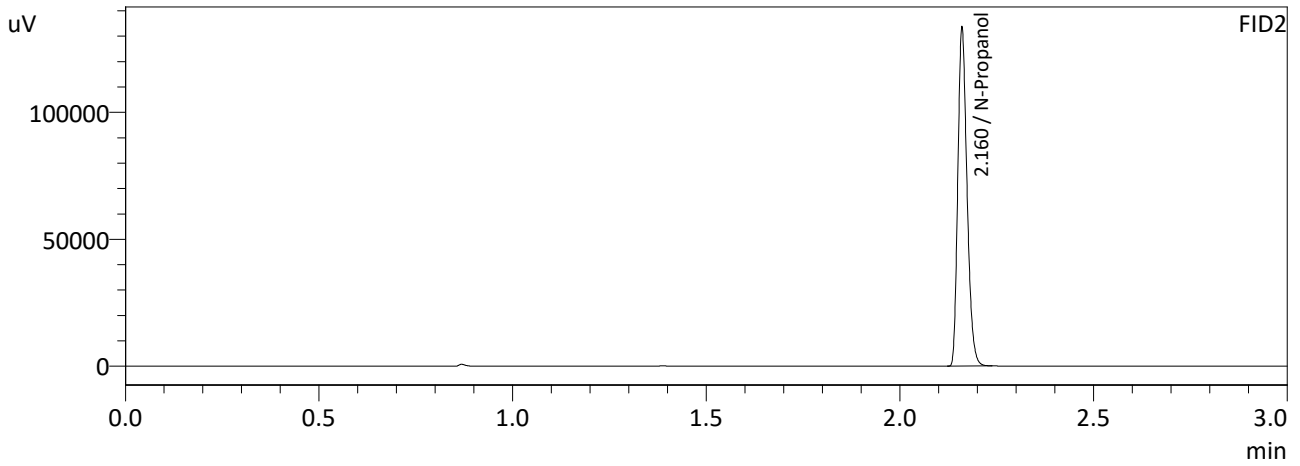
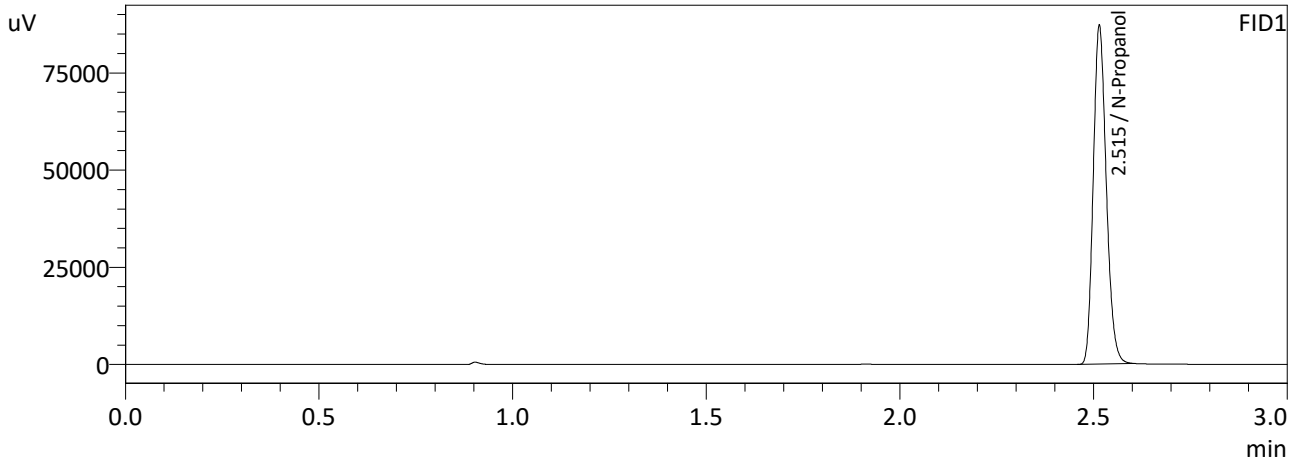
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2049	107763	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	248860	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2048	117098	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	270004	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : ISTD BLK 1  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 12:56:59 PM  
 Vial # : 1  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

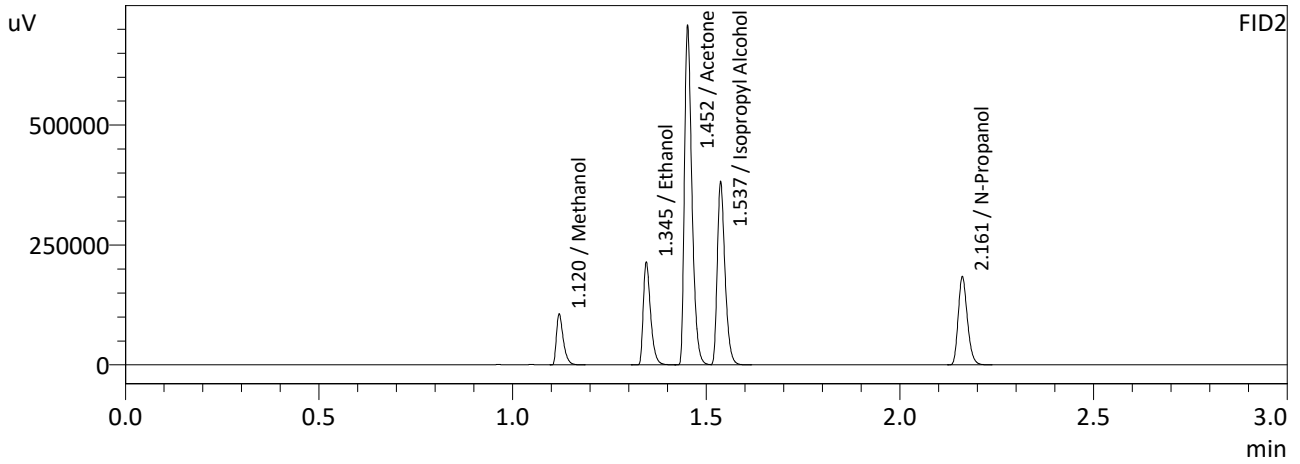
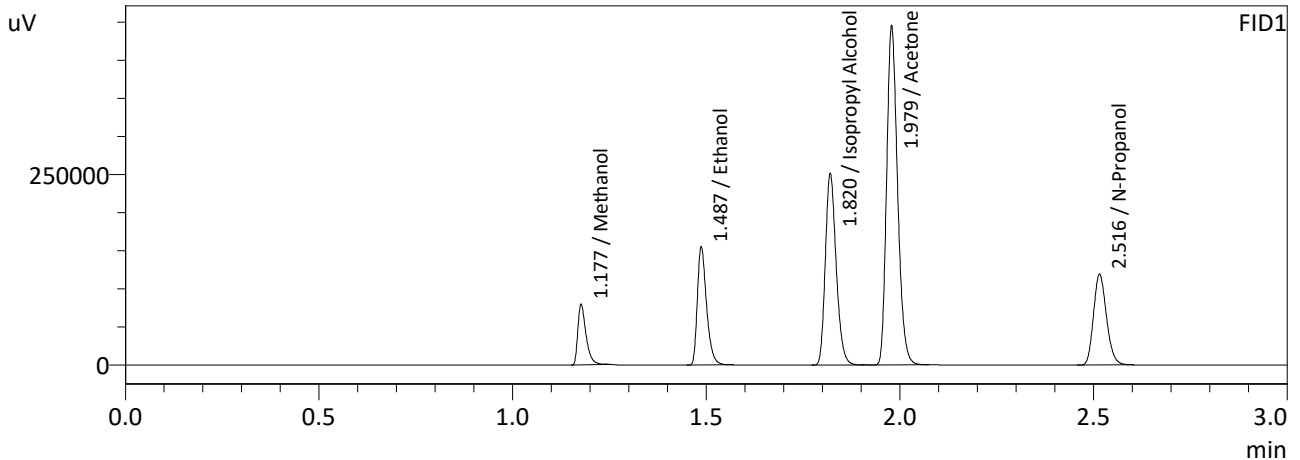
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	203590	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	220564	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : MIXED VOLATILES FN 06041902  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 1:04:19 PM  
 Vial # : 2  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

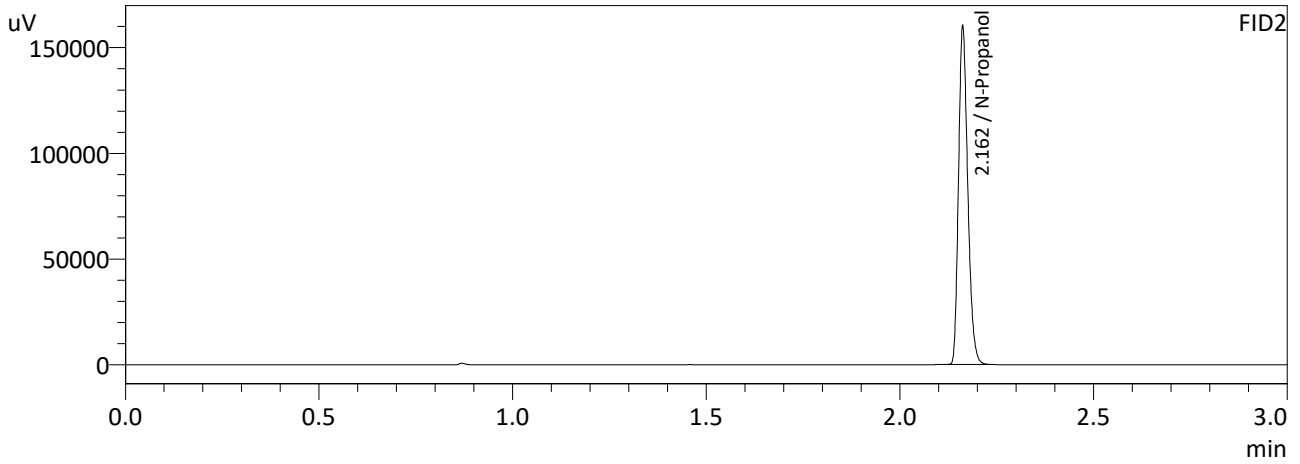
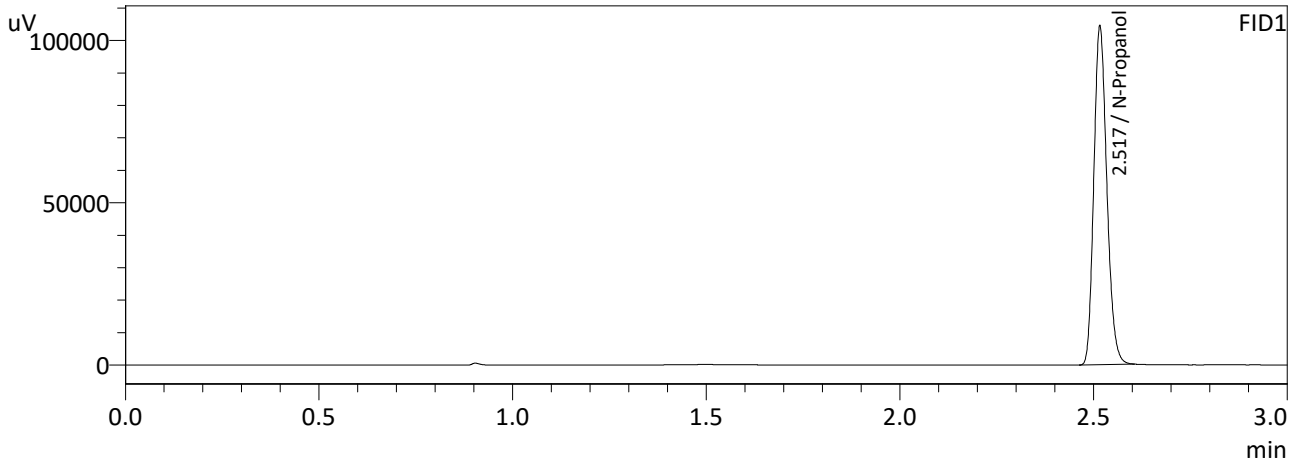
Name	Conc.	Area	Unit
Methanol	0.0000	117446	g/100cc
Ethanol	0.4299	255968	g/100cc
Isopropyl Alcohol	0.0000	488512	g/100cc
Acetone	0.0000	871815	g/100cc
N-Propanol	0.0000	277381	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	130675	g/100cc
Ethanol	0.4308	280289	g/100cc
Acetone	0.0000	947498	g/100cc
Isopropyl Alcohol	0.0000	528522	g/100cc
N-Propanol	0.0000	302085	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : ISTD BLK 2  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 7:21:15 PM  
 Vial # : 49  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

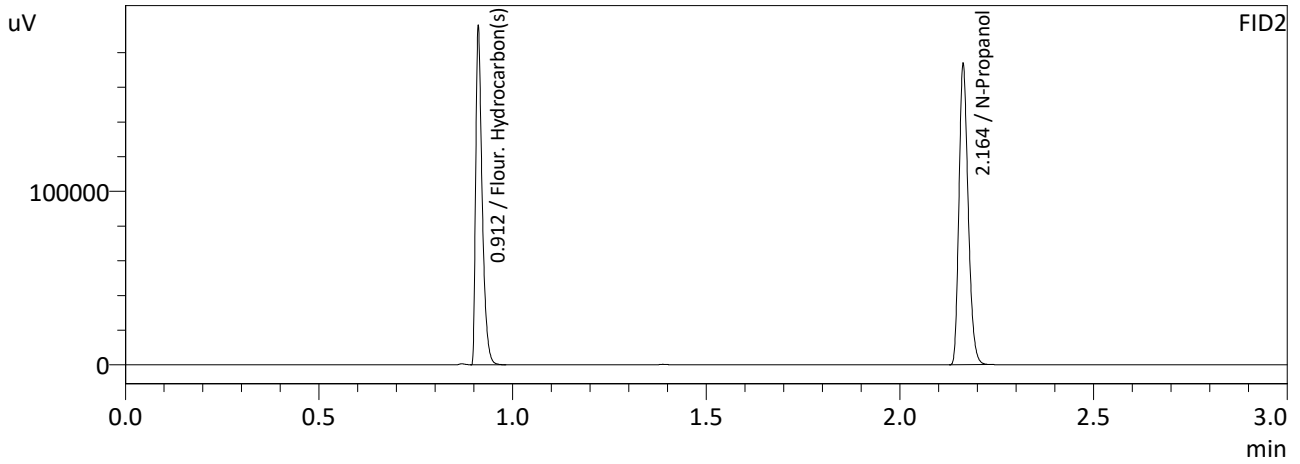
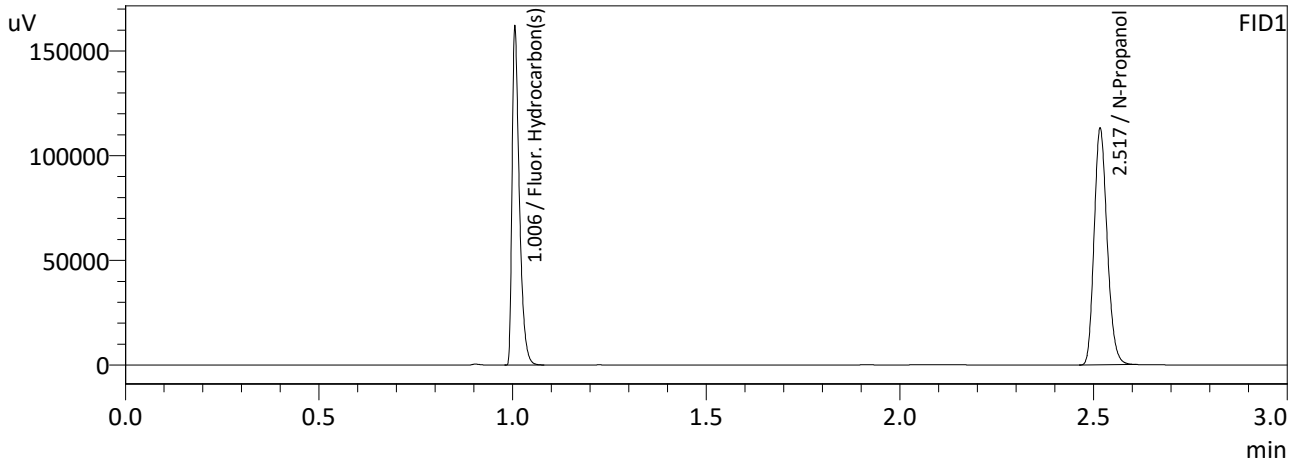
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	243623	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	265078	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : DFE 111914OM  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 7:29:38 PM  
 Vial # : 50  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

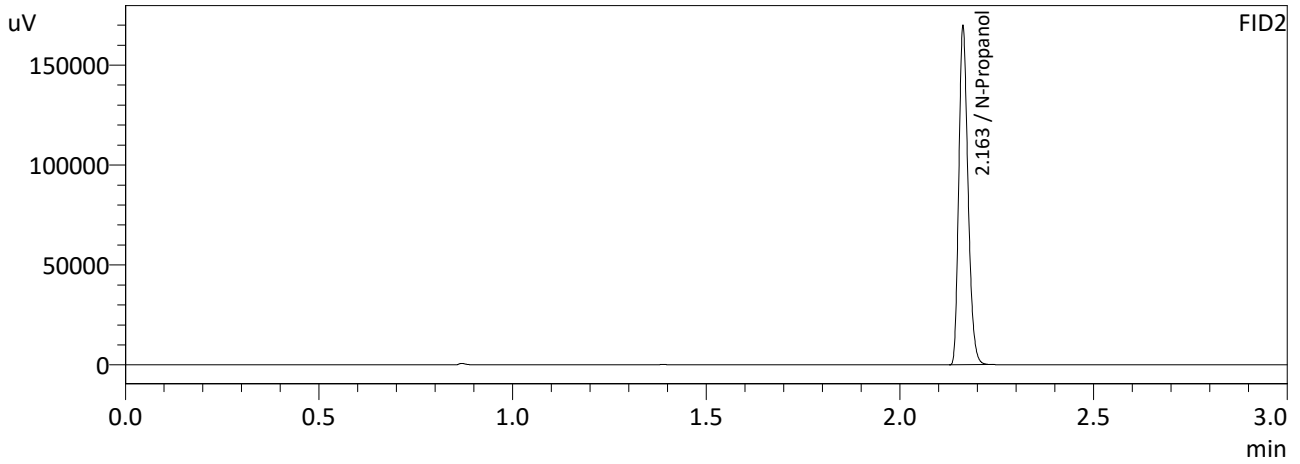
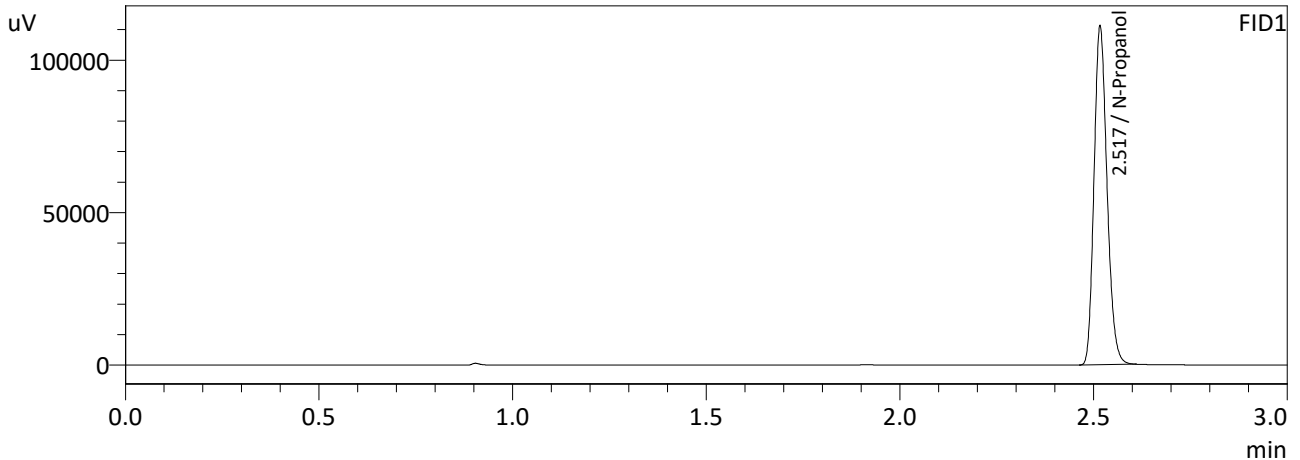
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	264094	g/100cc
Fluor. Hydrocarbon(s)	0.0000	211061	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	287036	g/100cc
Fluor. Hydrocarbon(s)	0.0000	226017	g/100cc

NB

Sample Name : ISTD BLK 3  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 7:38:03 PM  
 Vial # : 51  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.gcm  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

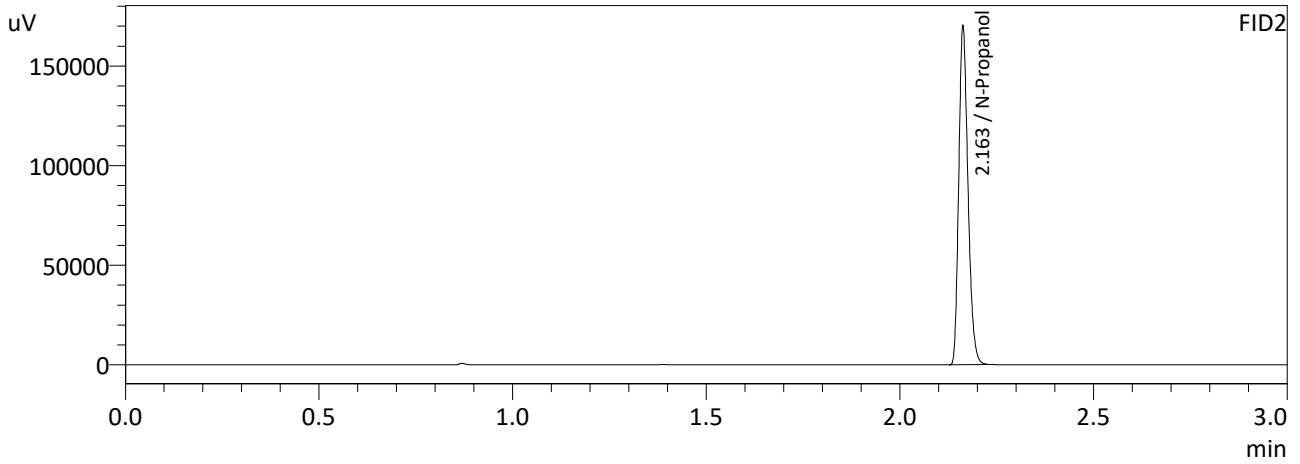
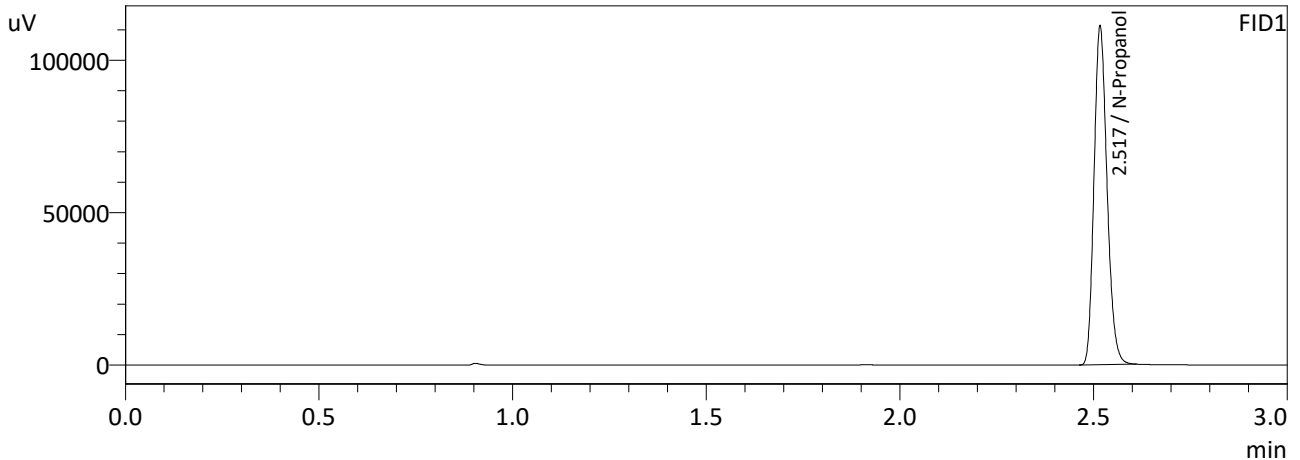
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	259048	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	280956	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

Sample Name : ISTD BLK 4  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 8:02:02 PM  
 Vial # : 54  
 Method Filename : Default Project - ALCOHOL\_230828NB.GCM.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	259432	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	281172	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

NB

# Meridian Blood Alcohol Analysis Batch Table

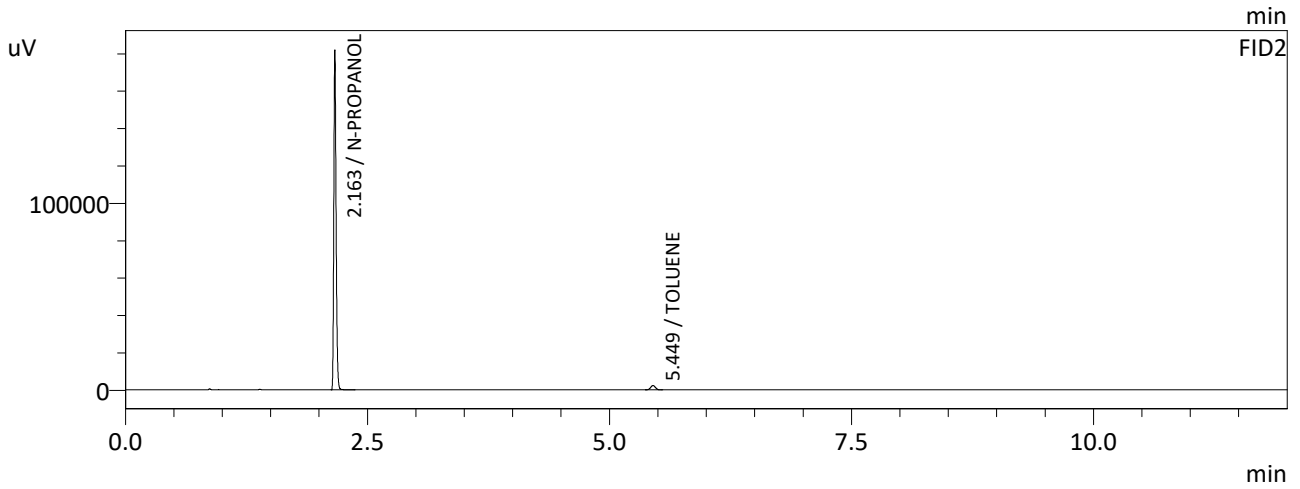
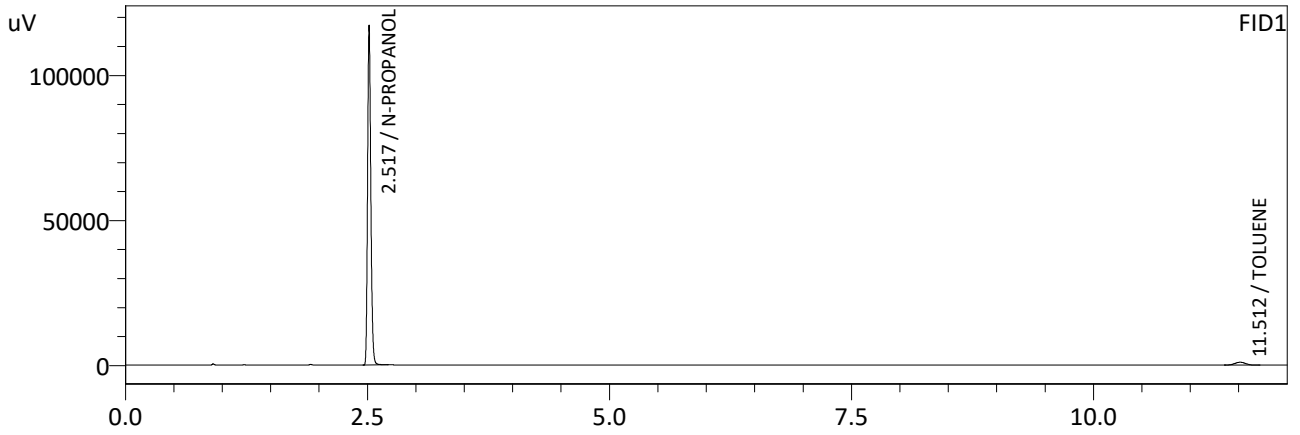
Shimadzu GC-2030 Serial #C12255750548  
 Shimadzu HS-20 Serial #C12595800409  
 Lab Solutions Database Software Ver. 6.111  
 Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 230828NB.GCM.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
7	M2023-3450-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
8	M2023-3450-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
9	M2023-3561-2	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
10	M2023-3561-2-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
11	M2023-3562-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
12	M2023-3562-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
13	M2023-3585-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
14	M2023-3585-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
15	M2023-3609-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
16	M2023-3609-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
17	M2023-3610-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
18	M2023-3610-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
19	M2023-3623-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
20	M2023-3623-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
21	M2023-3637-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
22	M2023-3637-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
23	M2023-3638-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
24	M2023-3638-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
27	M2023-3651-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
28	M2023-3651-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
29	M2023-3652-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
30	M2023-3652-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
31	M2023-3661-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
32	M2023-3661-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
33	M2023-3683-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
34	M2023-3683-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
35	M2023-3684-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
36	M2023-3684-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
37	M2023-3684-2	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
38	M2023-3684-2-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
39	M2023-3685-1	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
40	M2023-3685-1-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
41	M2023-3702-5	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
42	M2023-3702-5-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
43	M2023-3702-6	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
44	M2023-3702-5-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
45	QC-1-2	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
46	QC-1-2-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
47	QC2-2	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
48	QC2-2-B	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
49	ISTD BLK 2	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
50	DFE 111914OM	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
51	ISTD BLK 3	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
52	2023-3653-1 QUALITATIV	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
53	023-3653-1 QUALITATIV	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm
54	ISTD BLK 4	0:Unknown	0	ALCOHOL 230828NB.GCM.gcm

NB



Sample Name : TOLUENE 002007  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 8:28:21 PM  
 Vial # : 55  
 Method Filename : Default Project - VOLATILES.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

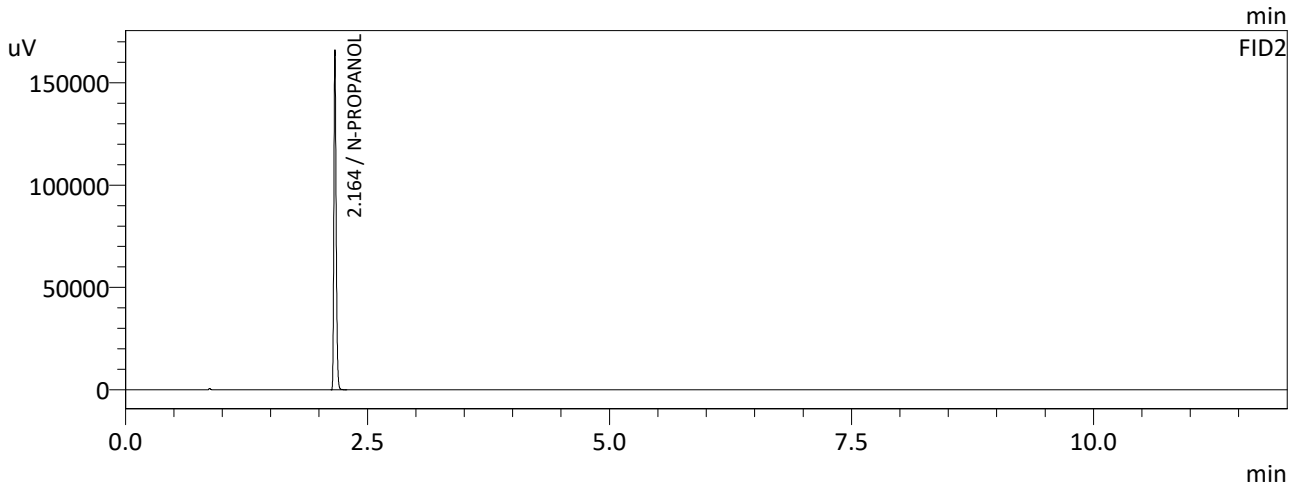
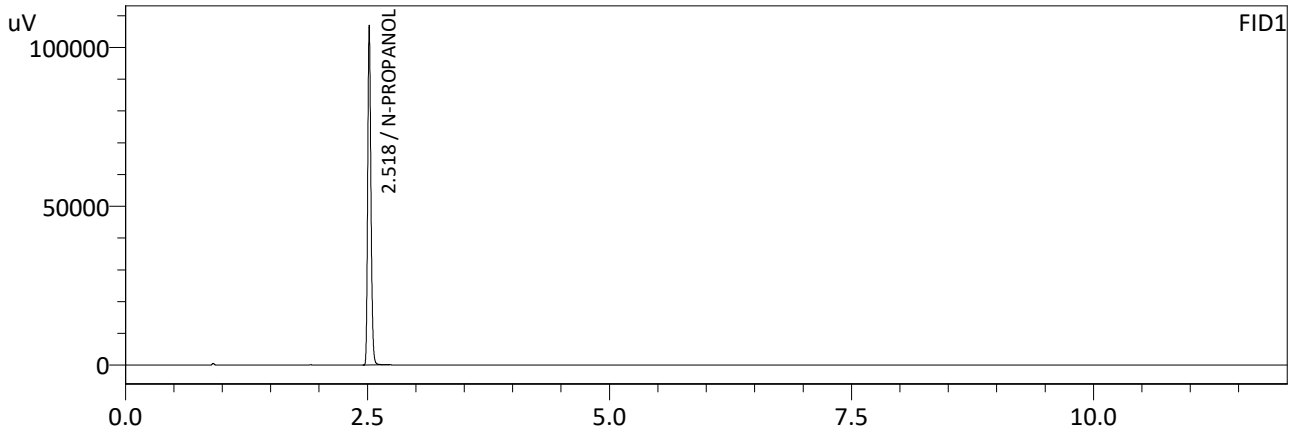
Name	Conc.	Area	Unit
N-PROPANOL	0.0000	272826	ppm
TOLUENE	0.0000	7835	ppm

FID2

Name	Conc.	Area	Unit
TOLUENE	0.0000	8151	ppm
N-PROPANOL	0.0000	298366	ppm

NB

Sample Name : ISTD BLK 5  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 8:43:51 PM  
 Vial # : 56  
 Method Filename : Default Project - VOLATILES.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

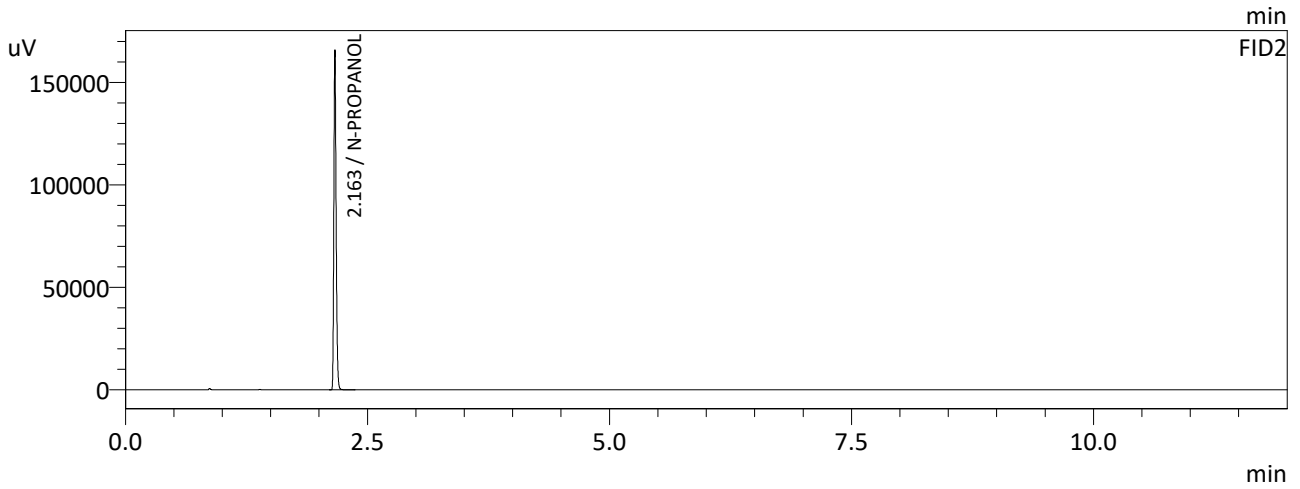
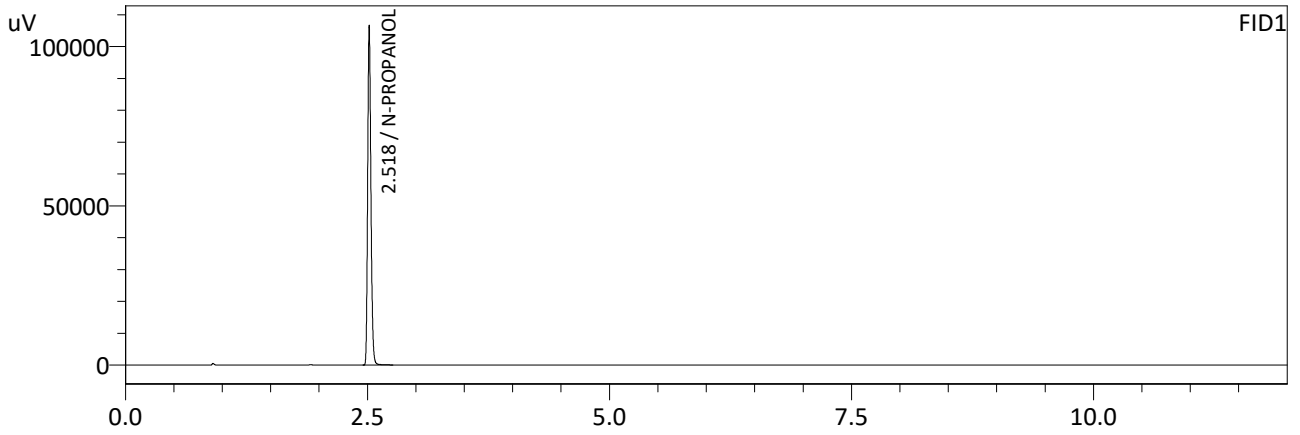
Name	Conc.	Area	Unit
N-PROPANOL	0.0000	249726	ppm
TOLUENE	--	--	ppm

FID2

Name	Conc.	Area	Unit
TOLUENE	--	--	ppm
N-PROPANOL	0.0000	272437	ppm

NB

Sample Name : ISTD BLK 6  
 Laboratory : Meridian  
 Injection Date : 8/28/2023 9:29:42 PM  
 Vial # : 59  
 Method Filename : Default Project - VOLATILES.GCM  
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
N-PROPANOL	0.0000	249272	ppm
TOLUENE	--	--	ppm

FID2

Name	Conc.	Area	Unit
TOLUENE	--	--	ppm
N-PROPANOL	0.0000	272822	ppm

NB

# Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548  
Shimadzu HS-20 Serial #C12595800409  
Lab Solutions Database Software Ver. 6.111  
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Vial#	Sample Name	Sample Type	Level#	Method File
55	TOLUENE 002007	0:Unknown	0	VOLATILES.GCM
56	ISTD BLK 5	0:Unknown	0	VOLATILES.GCM
57	2023-3653-1 VOLATILES	0:Unknown	0	VOLATILES.GCM
58	2023-3653-1 VOLATILES	0:Unknown	0	VOLATILES.GCM
59	ISTD BLK 6	0:Unknown	0	VOLATILES.GCM

NB