Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: L600HC11378

Volatiles Quality Assurance Controls **Run Date(s): 5/24/22-5/25/22**

Calibration Date: 5/24/22

Worklist #: 5924

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0788 g/100cc
					0.0781 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2181 g/100cc
					0.2163 g/100cc
					g/100cc

Multi-Component mixture:	**Exp:**	**22-Jul**	**Lot #**	FN07101701	ok
Curve Fit:		**Column 1**	0.99960	**Column2**	0.99961

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0543	0.0541	0.0002	0.0542
100	0.100	0.090 - 0.110	0.0962	0.0960	0.0002	0.0961
200	0.200	0.180 - 0.220	0.1967	0.1970	0.0003	0.1968
300	0.300	0.270 - 0.330	0.3026	0.3029	0.0003	0.3027
400	0.400	0.360 - 0.440	N/A	N/A	########	#DIV/0!
500	0.500	0.450 - 0.550	0.5000	0.4997	0.0003	0.4998

Internal Standard	Average	(-) 20%	(+) 20%
N-Propanol:	267855.8	214284.6	321427.0

Aqueous Controls

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

JG

Revision: 4
Issue Date: 01/24/2022
Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #: 5924 **Run Date(s):** 5/24/22-5/25/22

Internal Standard Solution:	Prep: 5/13/22	Exp Date: 11/13/2022

Sample Name	Column 1 Value	Column 2 Value	Average
QC1-1-A	273820	300439	287129.5
QC1-1-B	214274	235405	224839.5
0.08-1-A	208147	228894	218520.5
0.08-1-B	206130	226648	216389
QC2-1-A	255952	280612	268282
QC2-1-B	267237	293048	280142.5
QC1-2-A	279697	307400	293548.5
QC1-2-B	272979	299968	286473.5
QC2-2-A	286289	314328	300308.5
QC2-2-B	288767	317082	302924.5
			#DIV/0!
			#DIV/0!
			#DIV/0!
			#DIV/0!

Combined Average	(-)20%	(+)20%
267855.8	214284.6	321427.0

Revision: 4
Issue Date: 01/24/2022
Issuing Authority: Quality Manager

On 5/24/22, the Mixed Volatiles sample in Vial #2 did not inject properly. Vials #1-9 were punctured and tested before this was noted and the run was aborted. Those samples (INT STD BLK 1, QC1-1, 0.080 QA, M2022-1944, and M2022-1945) had new samples taken and run during the following run started the same day 5/24/22 and continued into 5/25/22.

John Garner

5/25/22

Hamilton AutoDiluter used for this blood run (ML600 HC11378) was calibrated successfully and an expiration date of 5/2023 was issued. This information was confirmed by a calibration sticker on the instrument on day of calibration curve.

JG 5/31/22

NB 5/31/22

Idaho State Police
Forensic Services

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM):

Date of Request: **1/21/2022**

Requestor/Discipline: Melissa (Nikka) Bradley/Blood Alcohol

Analytical Method/Quality Standard, Revision #: AM#1 Analysis for Volatiles by Headspace GC/ 4.3.9

Temporary or Permanent Deviation: Permanent

Scope of Deviation There is a noticeable increased drift of internal standard (n-propanol signals) from the calibrators, beginning of the run and towards the end of the sample run that is consistent in multiple batches of blood alcohol runs. Because all the samples that are analyzed are being compared to calibrators that are performed at the beginning of the run, the n-propanol signal of end samples tend to be outside or close to being outside of the +/- 20% of the mean value from the calibration curve used Despite this drift the values of known control samples are within acceptable limits.

Deviation Request

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts throughout the calibration curve samples.

Requesting that the internal standard monitoring average be changed to average the aqueous and matrix controls within the run.

> 4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts from the aqueous control and all matrix blood control samples.

Technical Justification for Analytical Method Deviations:
The designed purpose of the internal standard monitoring is to evaluate the quality of injection of each sample. There is a gradual increase of internal standard response from the beginning of the batch (calibrators and early samples) to the end that is inherent to the current instrument set up as shown in trends from previous batches in multiple laboratories. Attempts to pre-condition/warm up the instrument using by running a pre-batch sequence utilizing old calibrator/blank samples prior to running a new calibration curve did not appear to minimize this occurrence. Furthermore, it can be seen that the drifting trend is not due to the extraction procedure because some of the later batch samples were extracted prior to the samples that are injected during the run. It is worth noting that despite this

JC

trend, the values of the known control samples are still within the specified acceptable range. By utilizing known control n-propanol signals throughout the batch, any potential drift will be taken into account while still being able to monitor a possible mis-injection or partial injection throughout the batch/sequence.

This deviation will have an expiration date of July 1st, 2022.

Technical Review

☒ Departure approved
Comments: Forms will be updated to reflect the new process concurrent with the deviation.

☐ Departure Not Approved
Comments:

Approver: Jeremy Fontaine Date: 1/21/22
Title: Discipline Lead

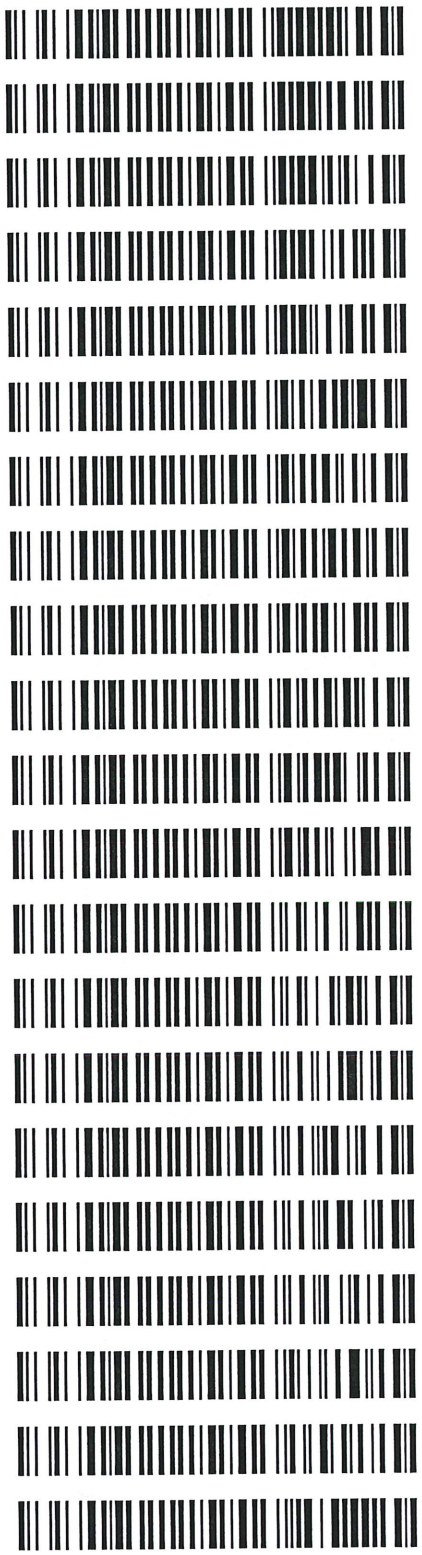
Quality Review

Quality Approver:
Title:
Date:

5/25/2022

Worklist: 5924

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-1944	1	BCK	Alcohol Analysis
M2022-1945	1	BCK	Alcohol Analysis
M2022-1946	1	BCK	Alcohol Analysis
M2022-1947	1	BCK	Alcohol Analysis
M2022-1948	1	BCK	Alcohol Analysis
M2022-1964	1	BCK	Alcohol Analysis
M2022-1965	1	BCK	Alcohol Analysis
M2022-1966	1	BCK	Alcohol Analysis
M2022-1990	1	BCK	Alcohol Analysis
M2022-1991	1	BCK	Alcohol Analysis
M2022-1992	1	BCK	Alcohol Analysis
M2022-1995	1	BCK	Alcohol Analysis
M2022-2033	1	BCK	Alcohol Analysis
M2022-2034	1	BCK	Alcohol Analysis
M2022-2053	1	BCK	Alcohol Analysis
M2022-2054	1	BCK	Alcohol Analysis
M2022-2055	1	BCK	Alcohol Analysis
M2022-2068	1	BCK	Alcohol Analysis
M2022-2070	1	BCK	Alcohol Analysis
M2022-2075	1	BCK	Alcohol Analysis
M2022-2088	1	BCK	Alcohol Analysis



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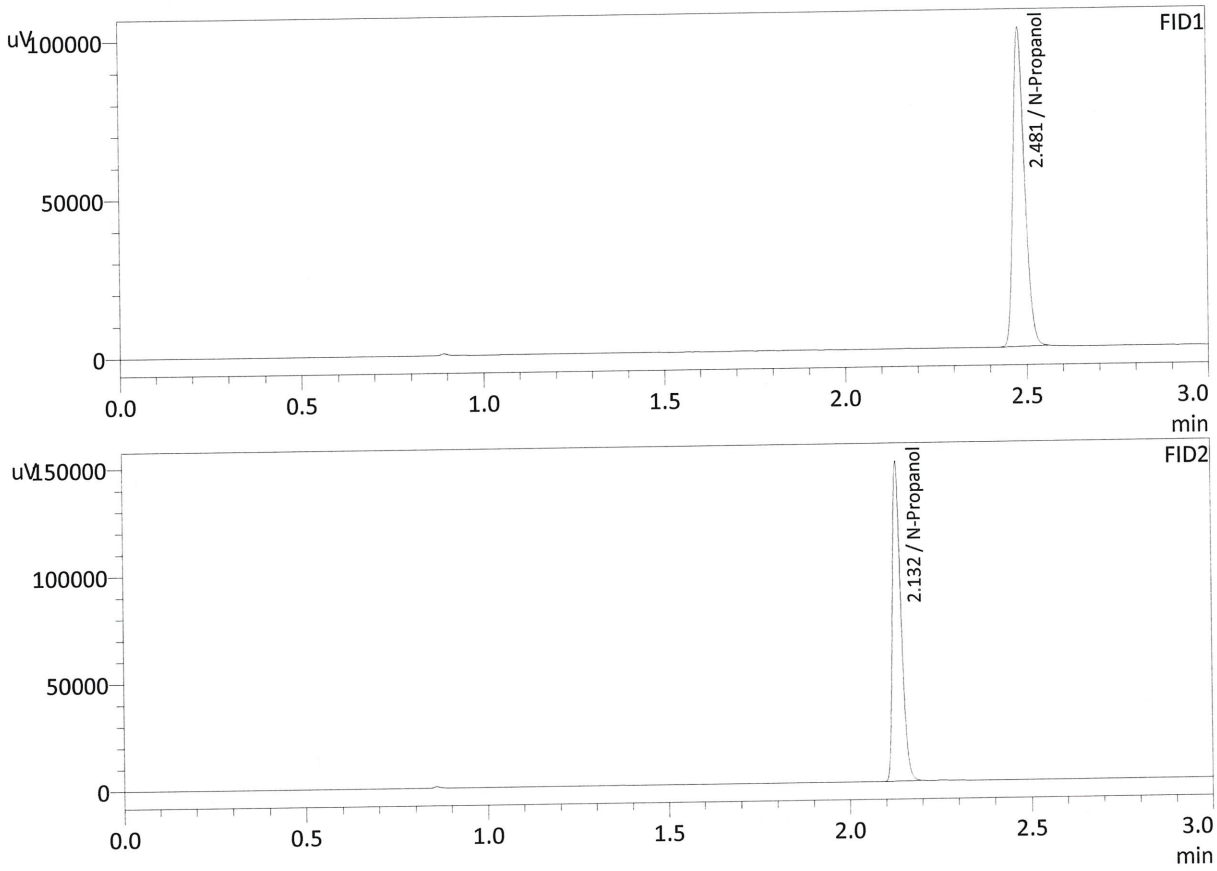
Worklist: 5924

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-2089	1	BCK	Alcohol Analysis

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 5/24/2022 5:05:58 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	223295	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	245506	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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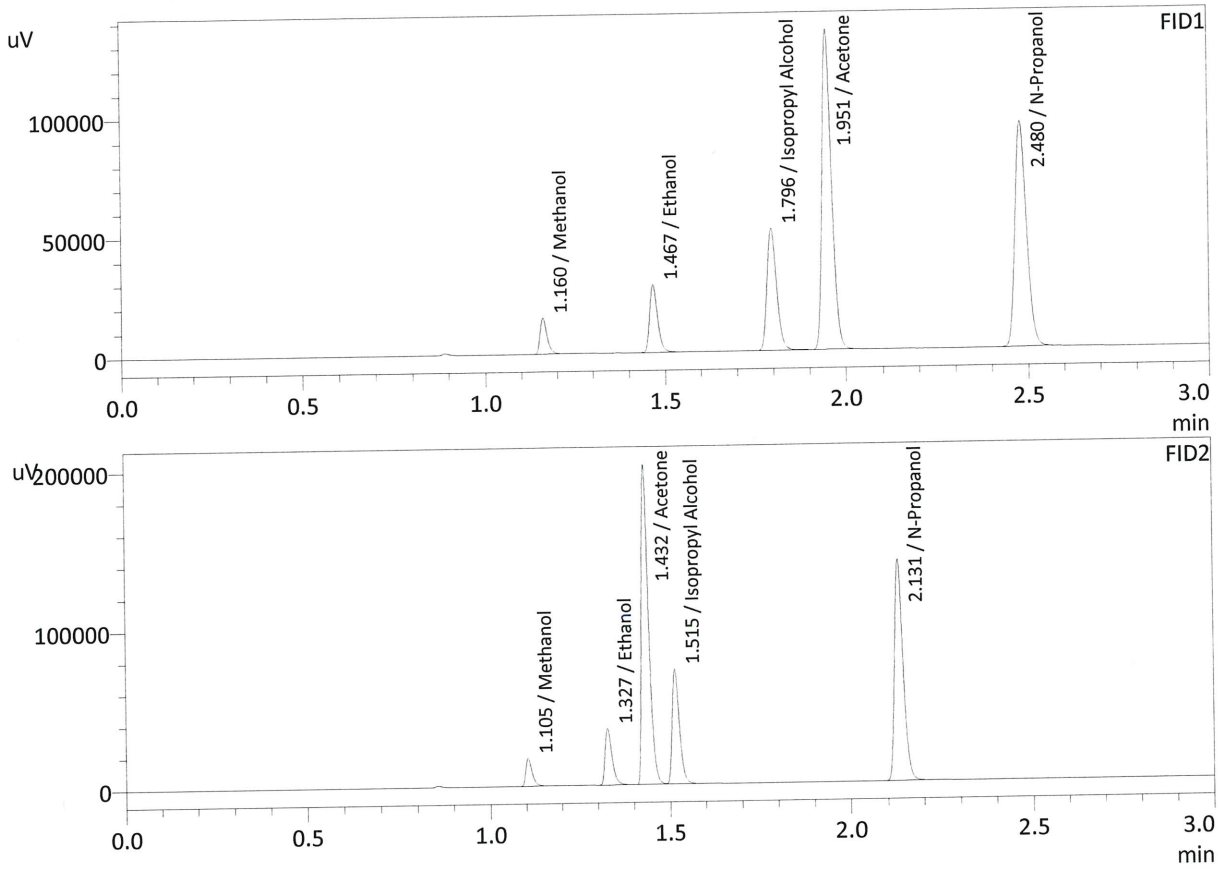
Sample Name : MIXED VOLATILES FN 07101701
Laboratory : Meridian
Injection Date : 5/24/2022 5:13:17 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	20247	g/100cc
Ethanol	0.1013	43537	g/100cc
Isopropyl Alcohol	0.0000	94206	g/100cc
Acetone	0.0000	247837	g/100cc
N-Propanol	0.0000	209996	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	22133	g/100cc
Ethanol	0.1016	47780	g/100cc
Acetone	0.0000	271001	g/100cc
Isopropyl Alcohol	0.0000	102578	g/100cc
N-Propanol	0.0000	230621	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Item #** **Analysis Date(s): 5/24/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0823	0.0823	0.0000	0.0823	0.0070	0.0788
(g/100cc)	0.0754	0.0752	0.0002	0.0753		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

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

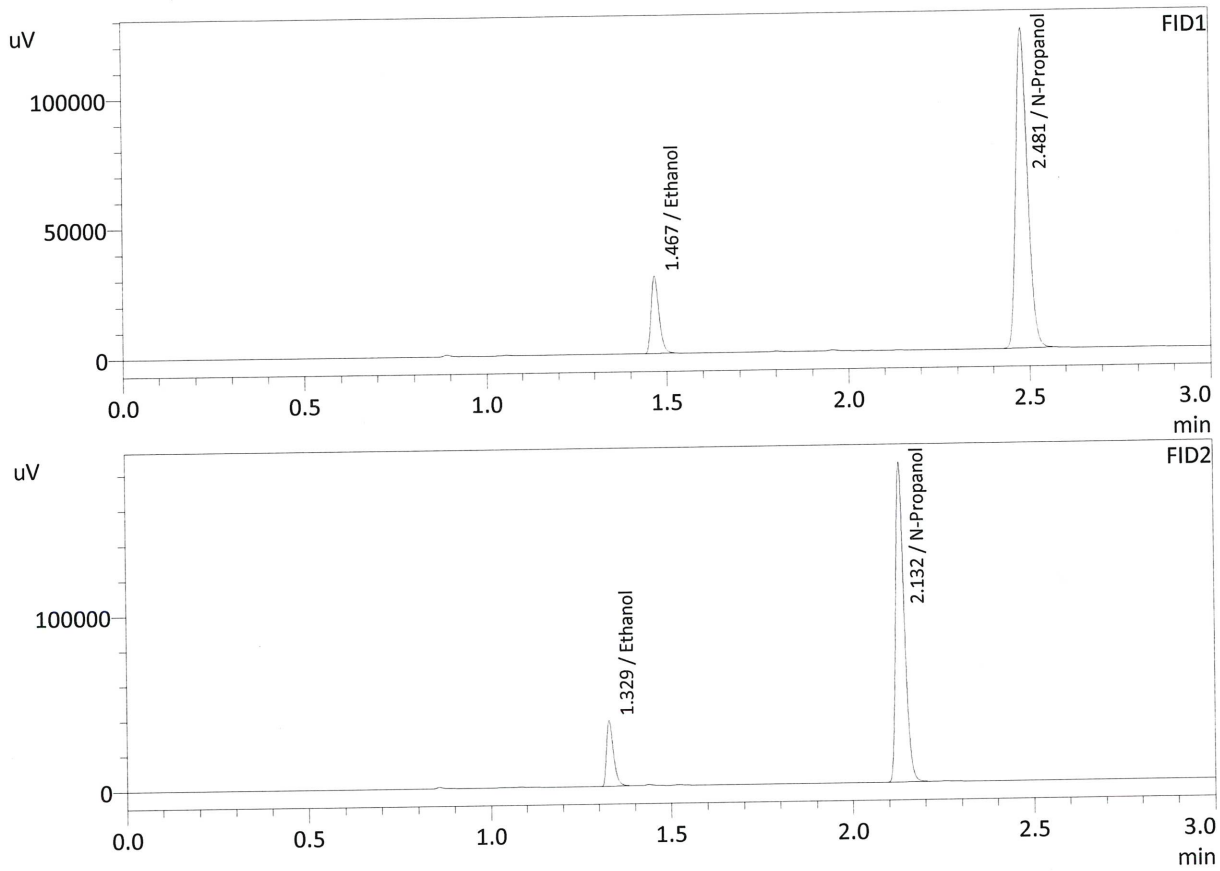
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

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

	Reported Result	
	0.078	

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 5/24/2022 5:20:37 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	45906	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	273820	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	50195	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	300439	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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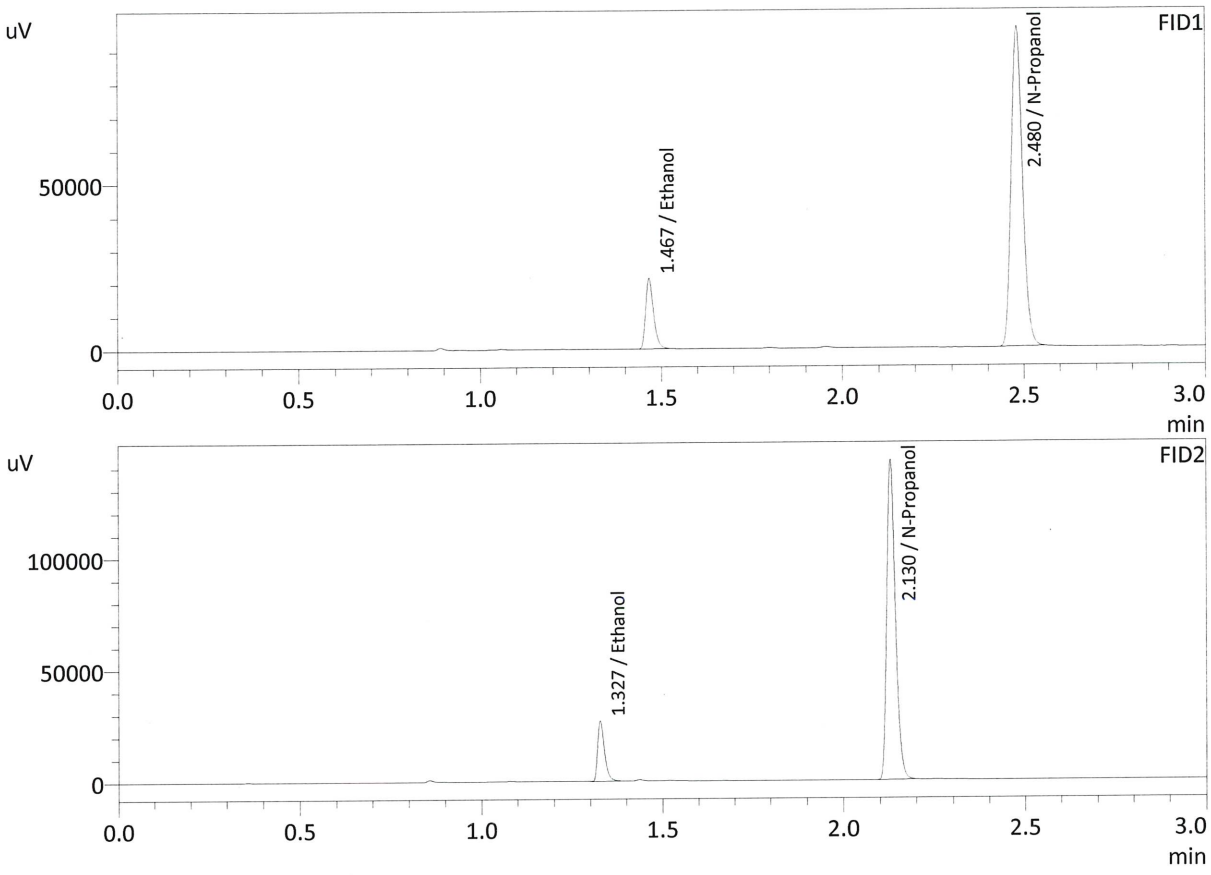
Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 5/24/2022 5:29:29 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0754	32833	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	214274	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0752	35823	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235405	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QA 0.080 **Item #** **Analysis Date(s): 5/24/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results (g/100cc)	0.0798	0.0794	0.0004	0.0796	0.0016	0.0804
	0.0814	0.0810	0.0004	0.0812		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

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

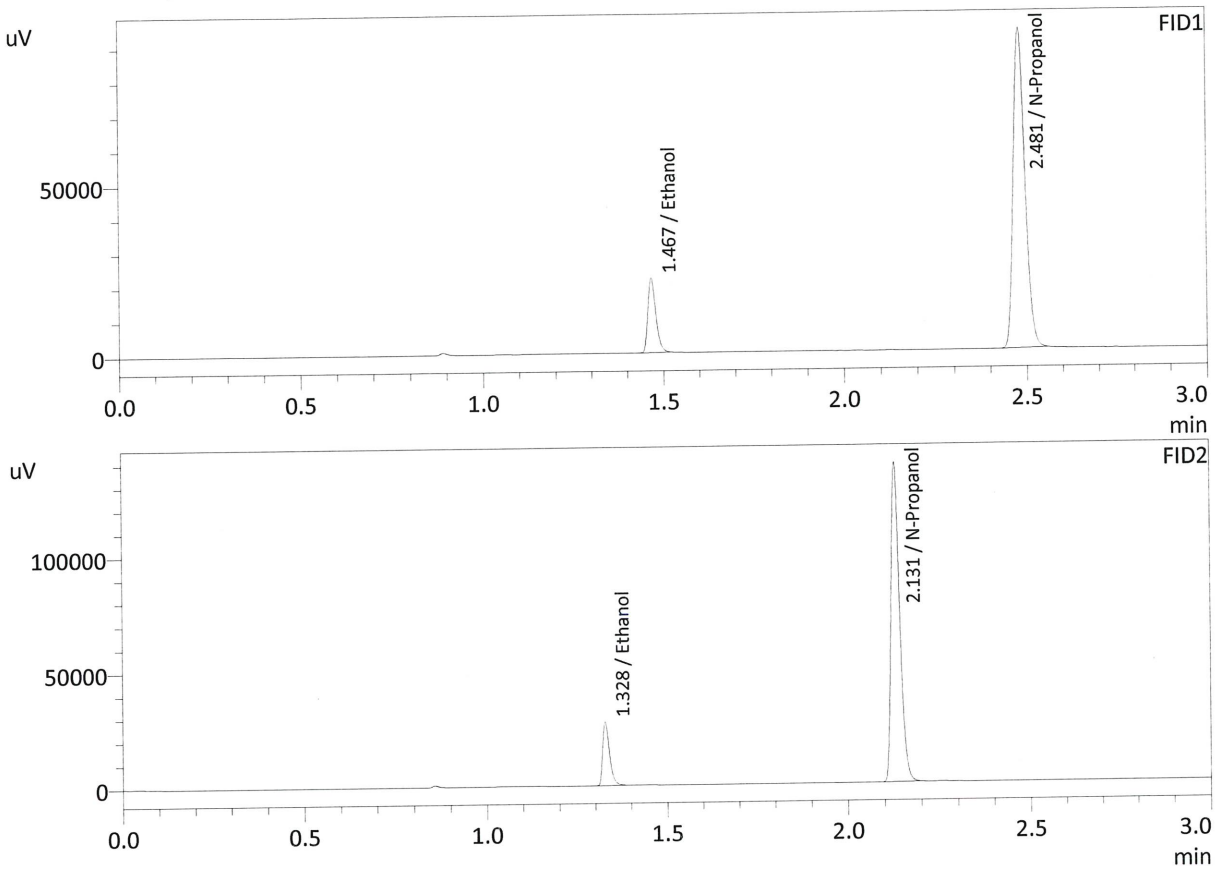
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

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

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 5/24/2022 5:37:59 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0798	33801	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208147	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0794	36860	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	228894	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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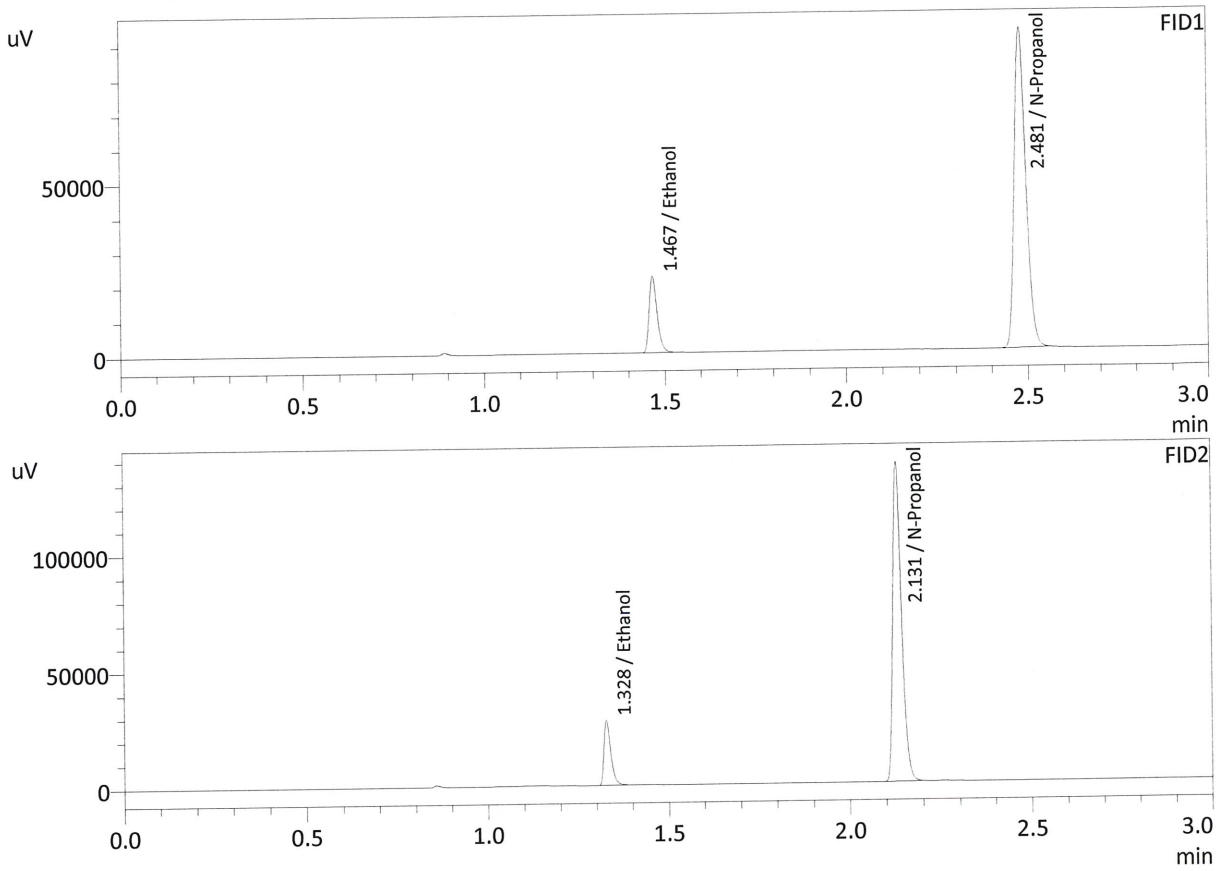
Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 5/24/2022 5:45:24 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0814	34149	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	206130	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0810	37247	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	226648	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Item #** **Analysis Date(s): 5/24/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2177	0.2179	0.0002	0.2178	0.0007	0.2181
(g/100cc)	0.2184	0.2186	0.0002	0.2185		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

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

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

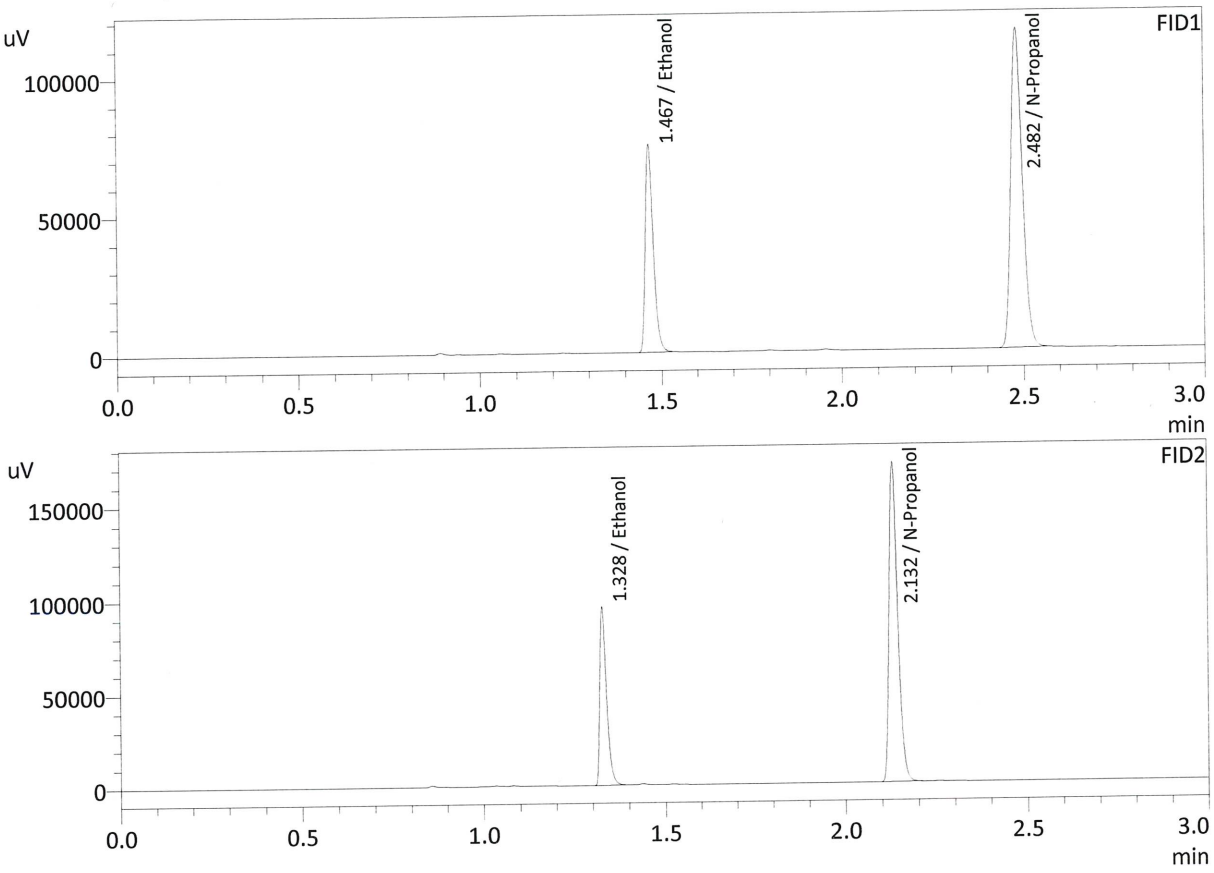
Overall Mean (g/100cc)	Low	High	5% of Mean
0.218	0.207	0.229	0.011

	Reported Result	
	0.218	

Calibration and control data are stored centrally.

JG

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 5/24/2022 8:19:14 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2177	115260	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	255952	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2179	125932	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	280612	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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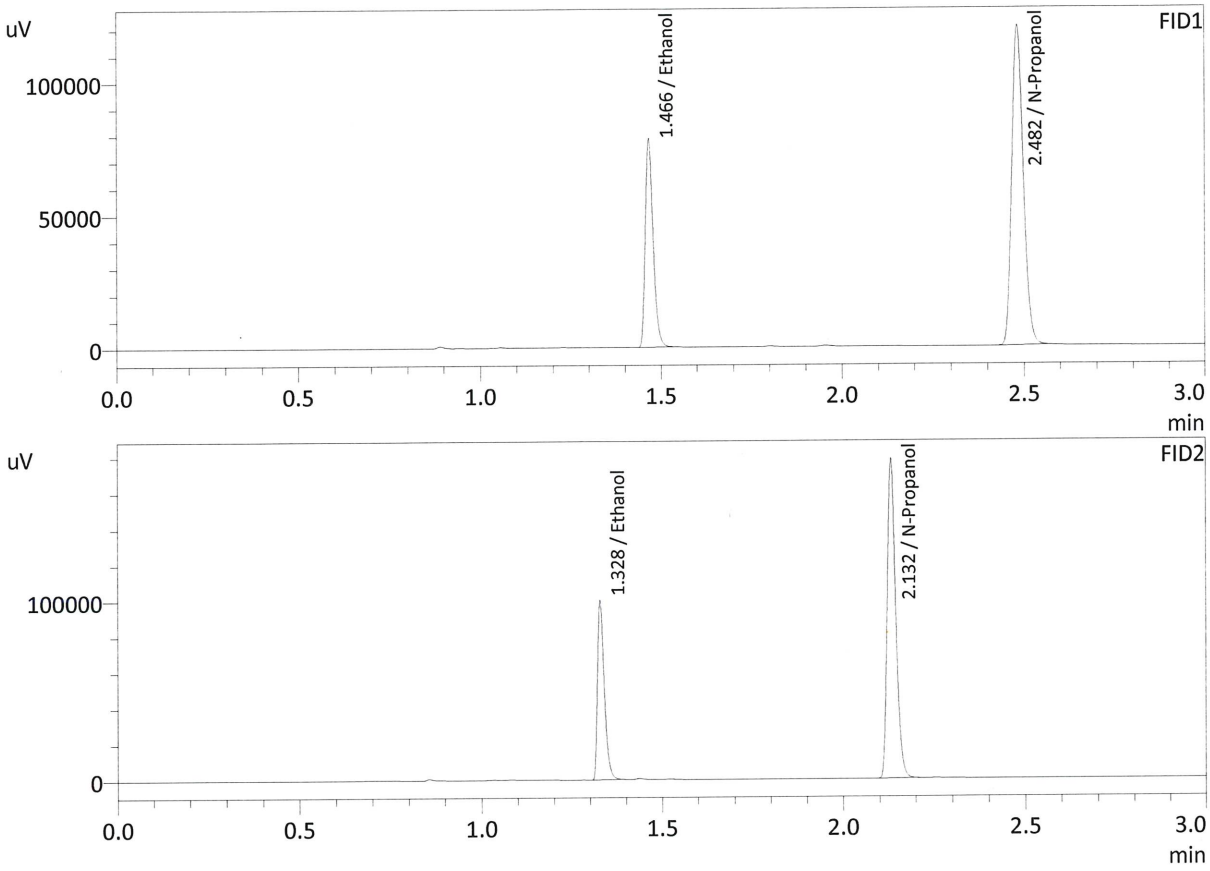
Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 5/24/2022 8:27:03 PM
Vial # : 26
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2184	120765	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	267237	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2186	131943	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	293048	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Item #** **Analysis Date(s): 5/24/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0779	0.0778	0.0001	0.0778	0.0006	0.0781
(g/100cc)	0.0784	0.0784	0.0000	0.0784		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

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

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

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

	Reported Result	
	0.078	

Calibration and control data are stored centrally.

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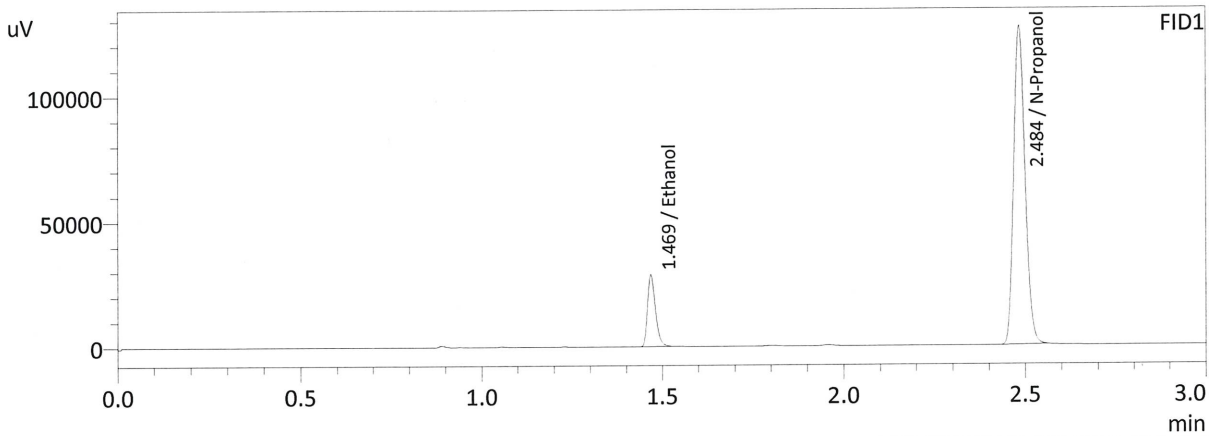
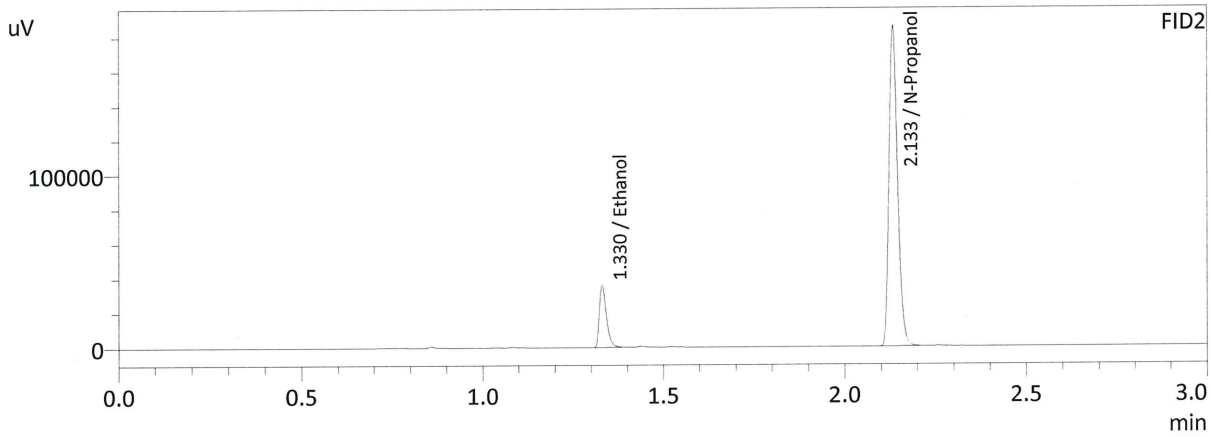
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 5/24/2022 11:17:15 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





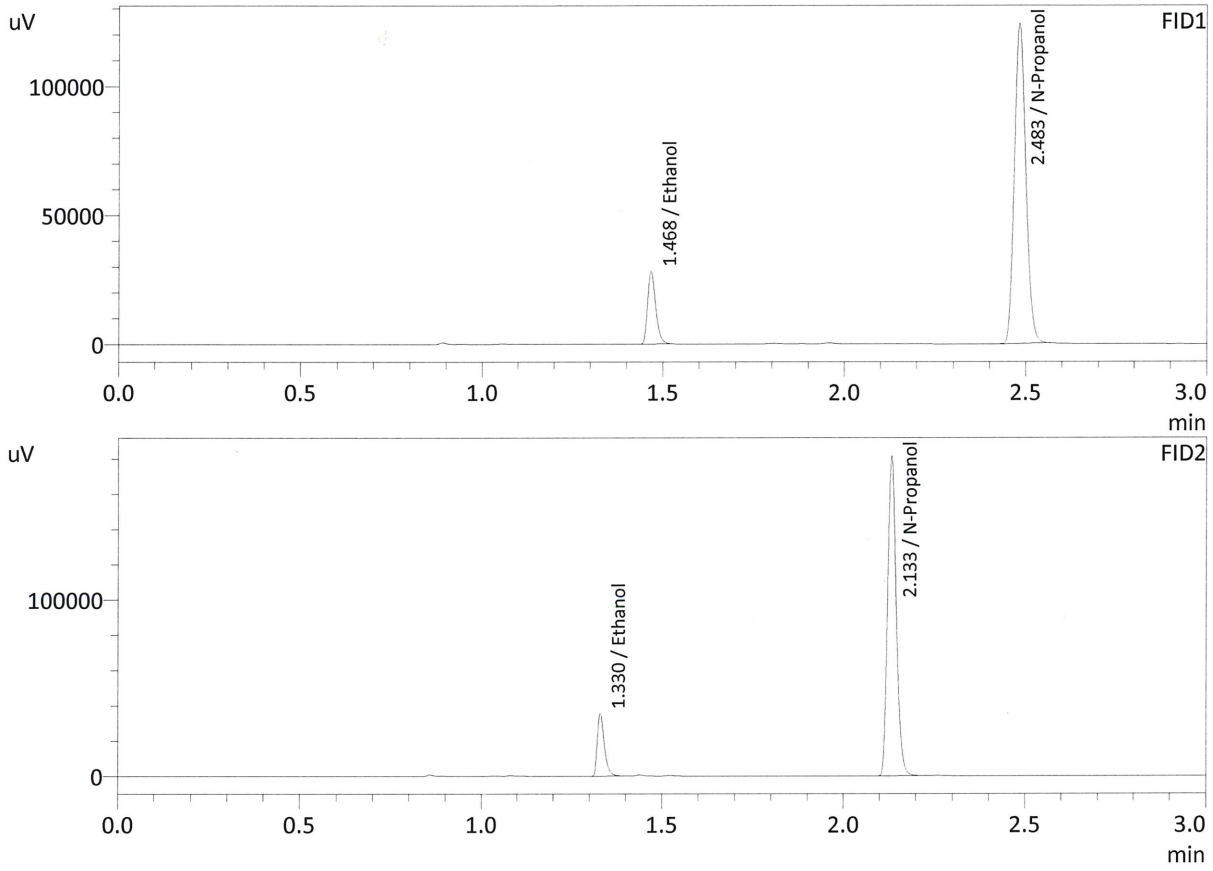
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0779	44310	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	279697	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0778	48455	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	307400	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 5/24/2022 11:26:23 PM
Vial # : 48
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0784	43537	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	272979	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0784	47644	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	299968	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Item #** **Analysis Date(s): 5/25/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2173	0.2176	0.0003	0.2174	0.0022	0.2163
(g/100cc)	0.2153	0.2152	0.0001	0.2152		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

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

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.216	0.205	0.227	0.011

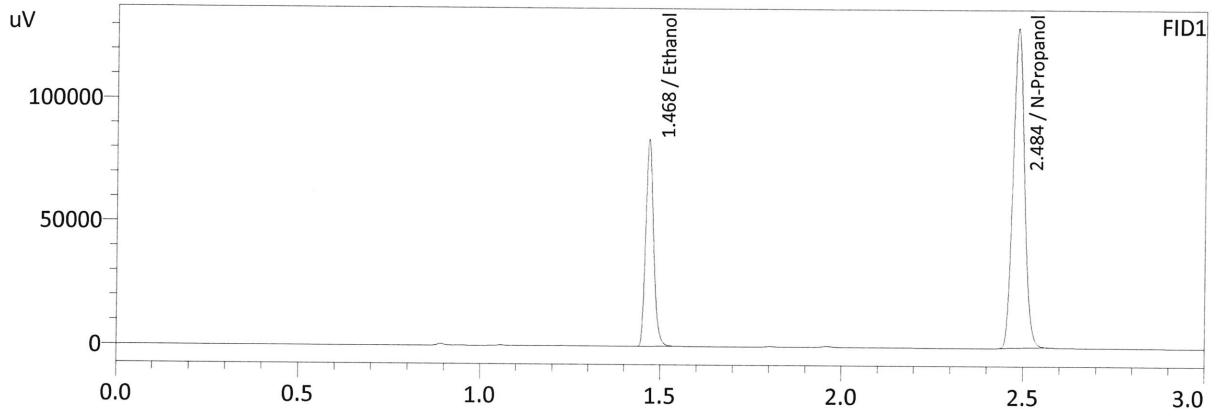
Reported Result

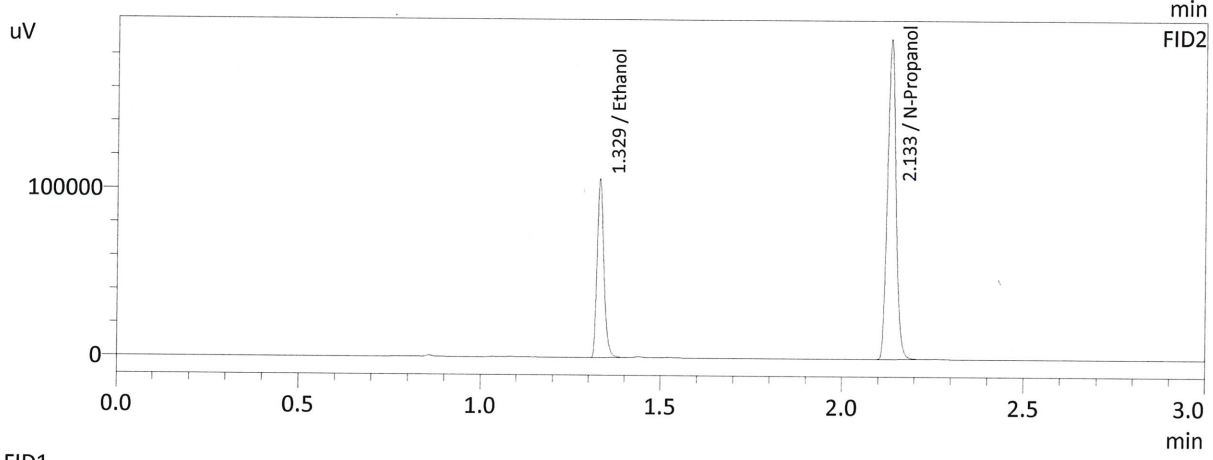
0.216

Calibration and control data are stored centrally.

JG

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : 5/25/2022 12:21:47 AM
Vial # : 55
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

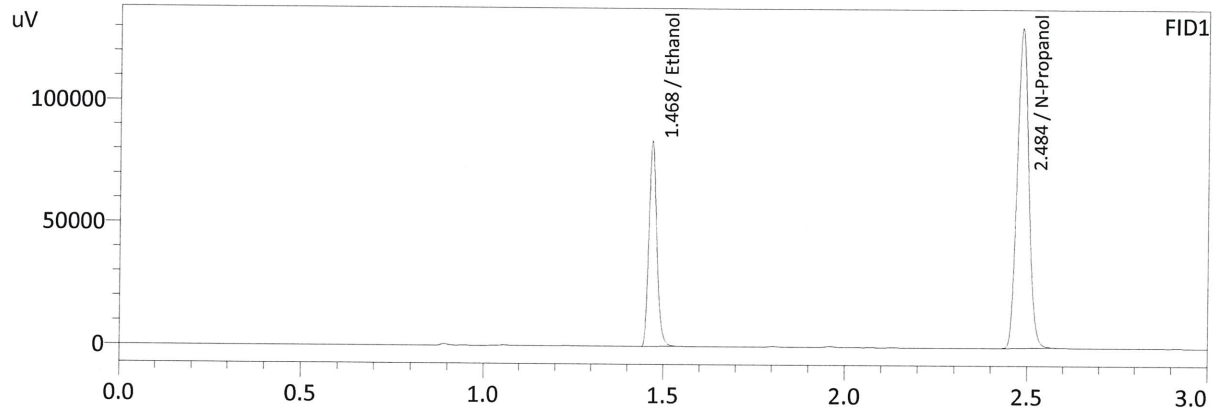
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2173	128687	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	286289	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

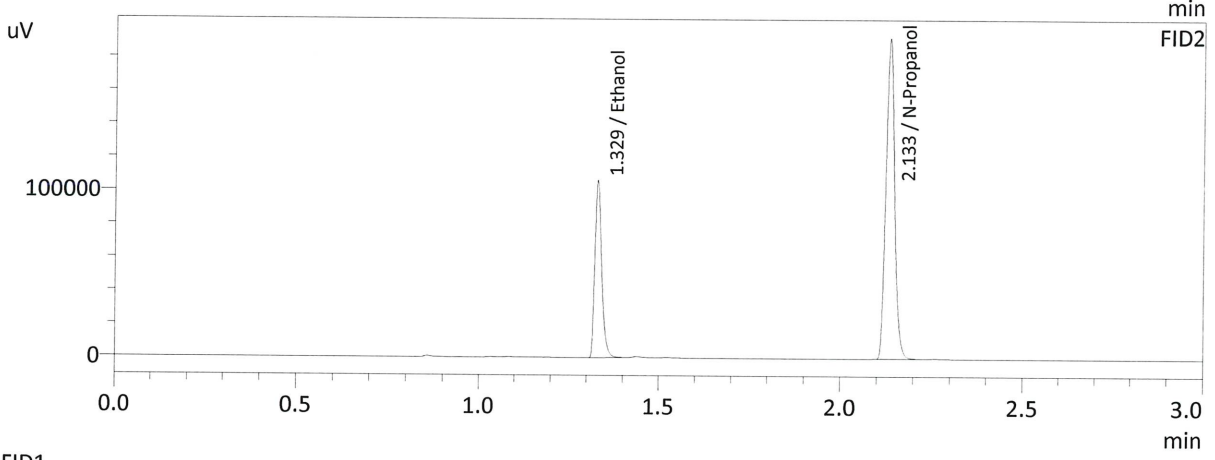
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2176	140874	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	314328	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : 5/25/2022 12:28:54 AM
Vial # : 56
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

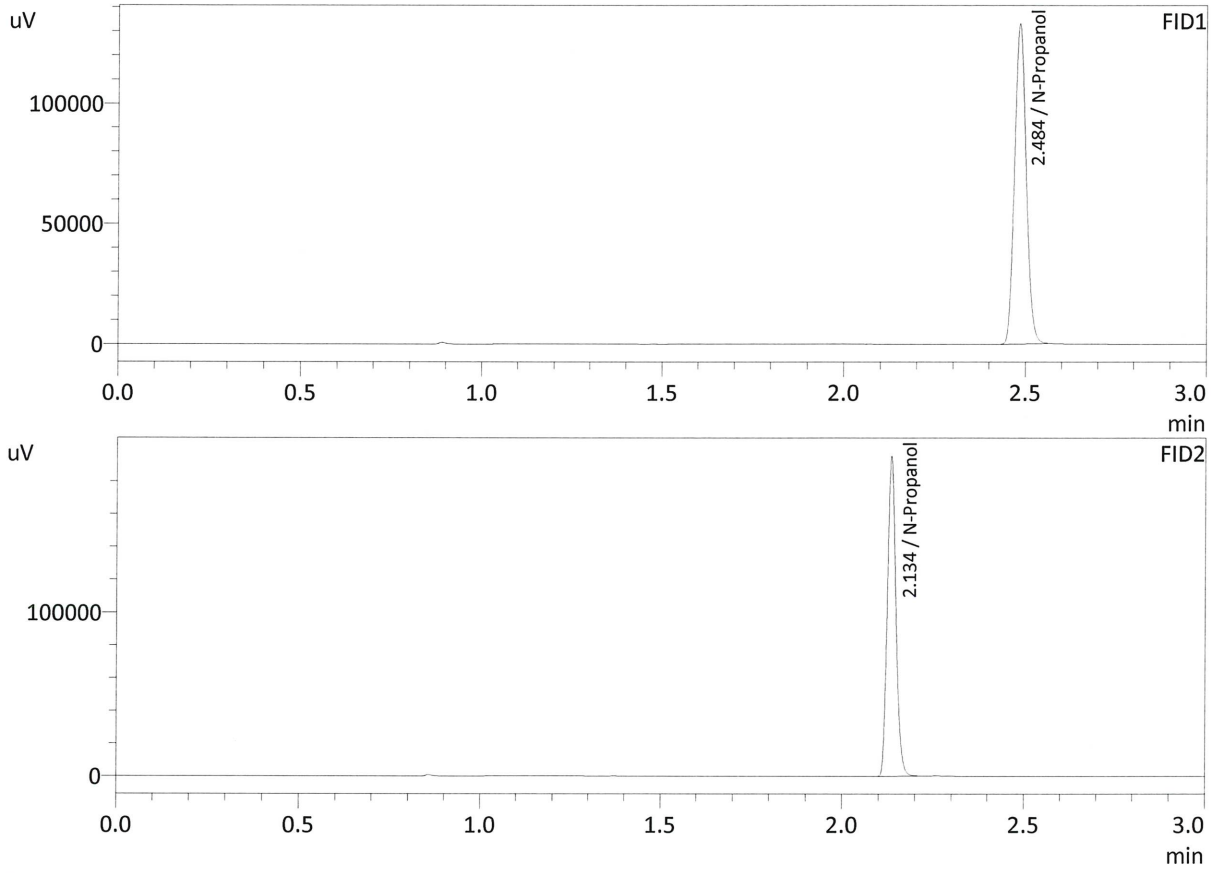
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2153	128601	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	288767	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2152	140574	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	317082	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 5/25/2022 12:38:52 AM
Vial # : 57
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	293582	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	322609	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

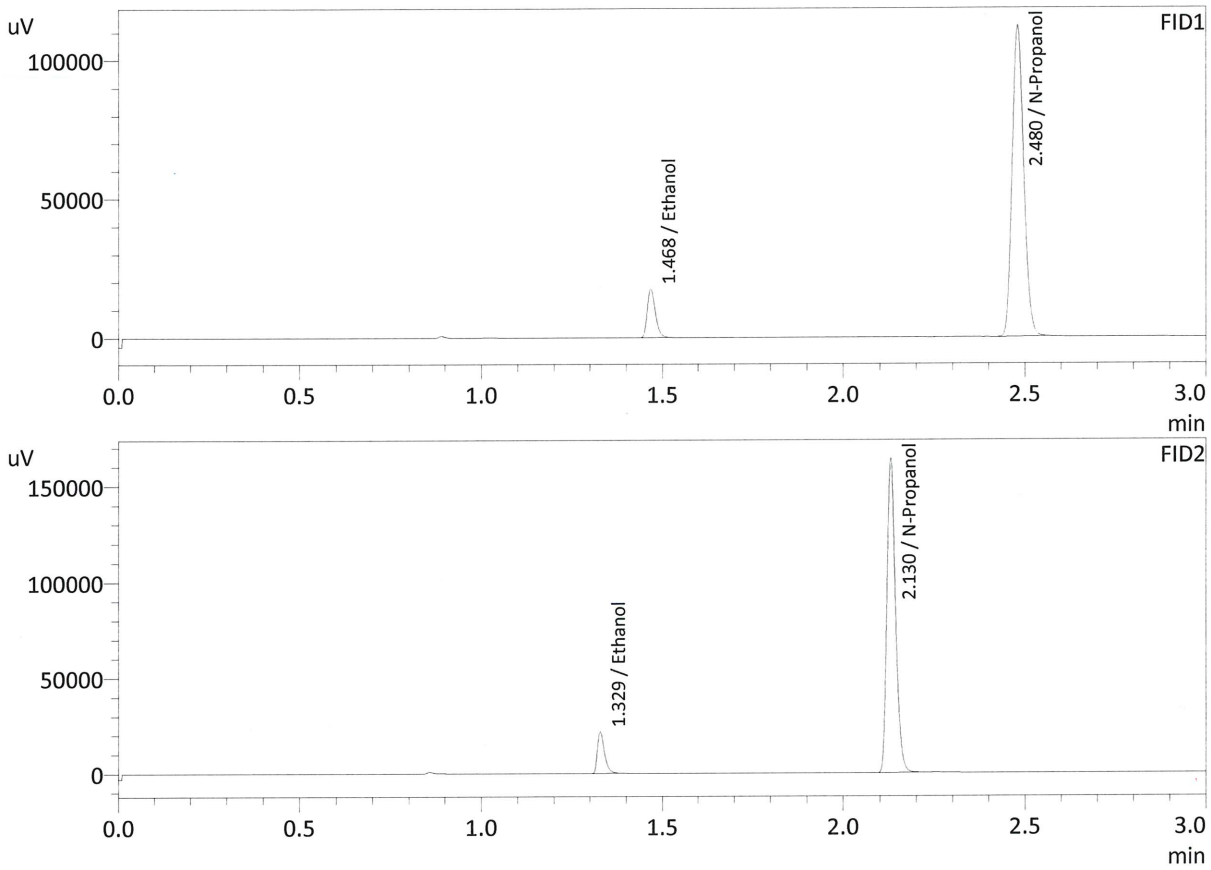
Meridian Blood Alcohol Analysis Batch Table

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

Vial#	Sample Name	Method File
1	INT STD BLK 1	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
7	M2022-1944-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
8	M2022-1944-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
9	M2022-1945-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
10	M2022-1945-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
11	M2022-1946-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
12	M2022-1946-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
13	M2022-1947-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
14	M2022-1947-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
15	M2022-1948-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
16	M2022-1948-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
17	M2022-1964-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
18	M2022-1964-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
19	M2022-1965-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
20	M2022-1965-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
21	M2022-1966-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
22	M2022-1966-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
23	M2022-1990-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
24	M2022-1990-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
27	M2022-1991-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
28	M2022-1991-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
29	M2022-1992-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
30	M2022-1992-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
31	M2022-1995-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
32	M2022-1995-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
33	M2022-2033-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
34	M2022-2033-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
35	M2022-2034-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
36	M2022-2034-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
37	M2022-2053-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
38	M2022-2053-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
39	M2022-2054-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
40	M2022-2054-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
41	M2022-2055-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
42	M2022-2055-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
43	M2022-2068-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
44	M2022-2068-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
45	M2022-2070-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
46	M2022-2070-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
49	M2022-2075-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
50	M2022-2075-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
51	M2022-2088-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
52	M2022-2088-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
53	M2022-2089-1A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
54	M2022-2089-1B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
55	QC2-2-A	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
56	QC2-2-B	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
57	INT STD BLNK	C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM

JG

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 5/24/2022 12:06:08 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\TEMPLATE\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

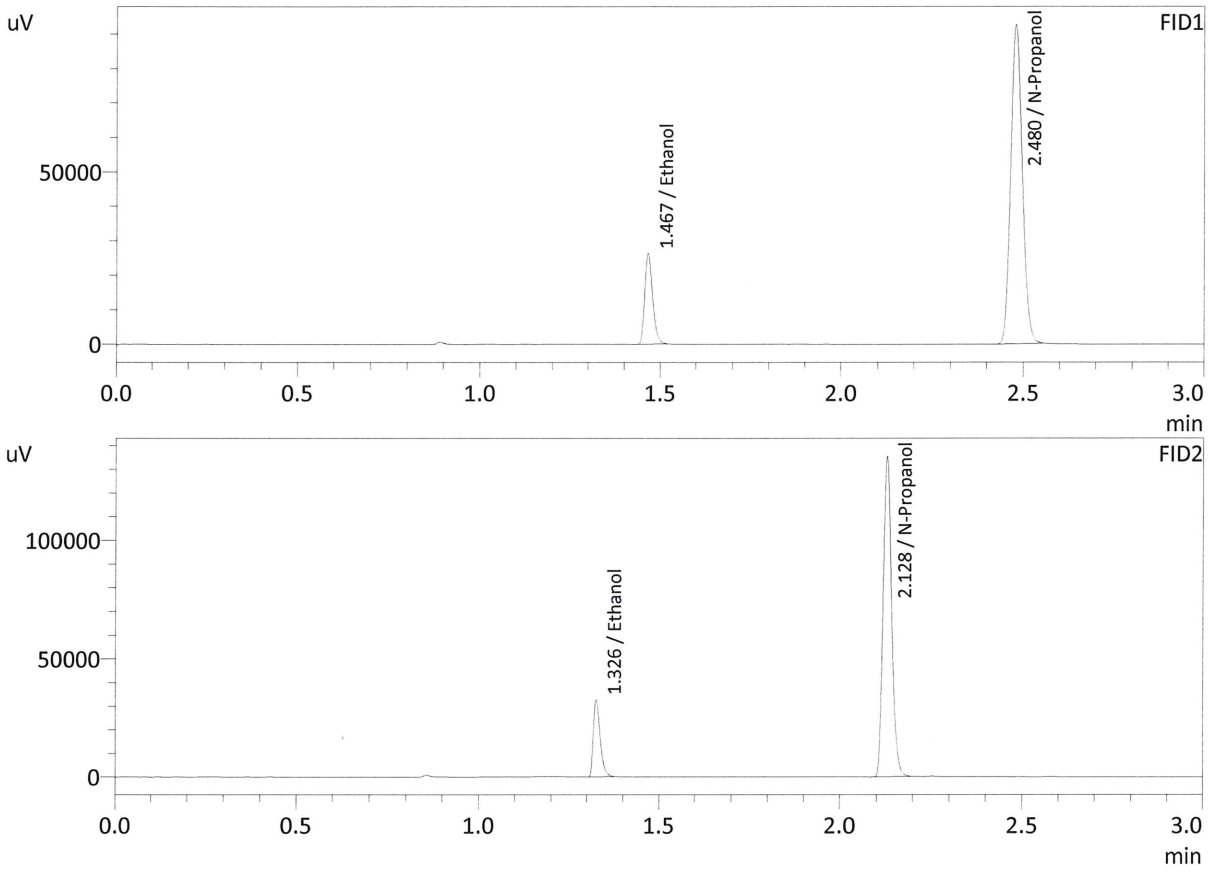
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0543	27014	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	247492	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0541	29277	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	270201	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 5/24/2022 12:13:28 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\TEMPLATE\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

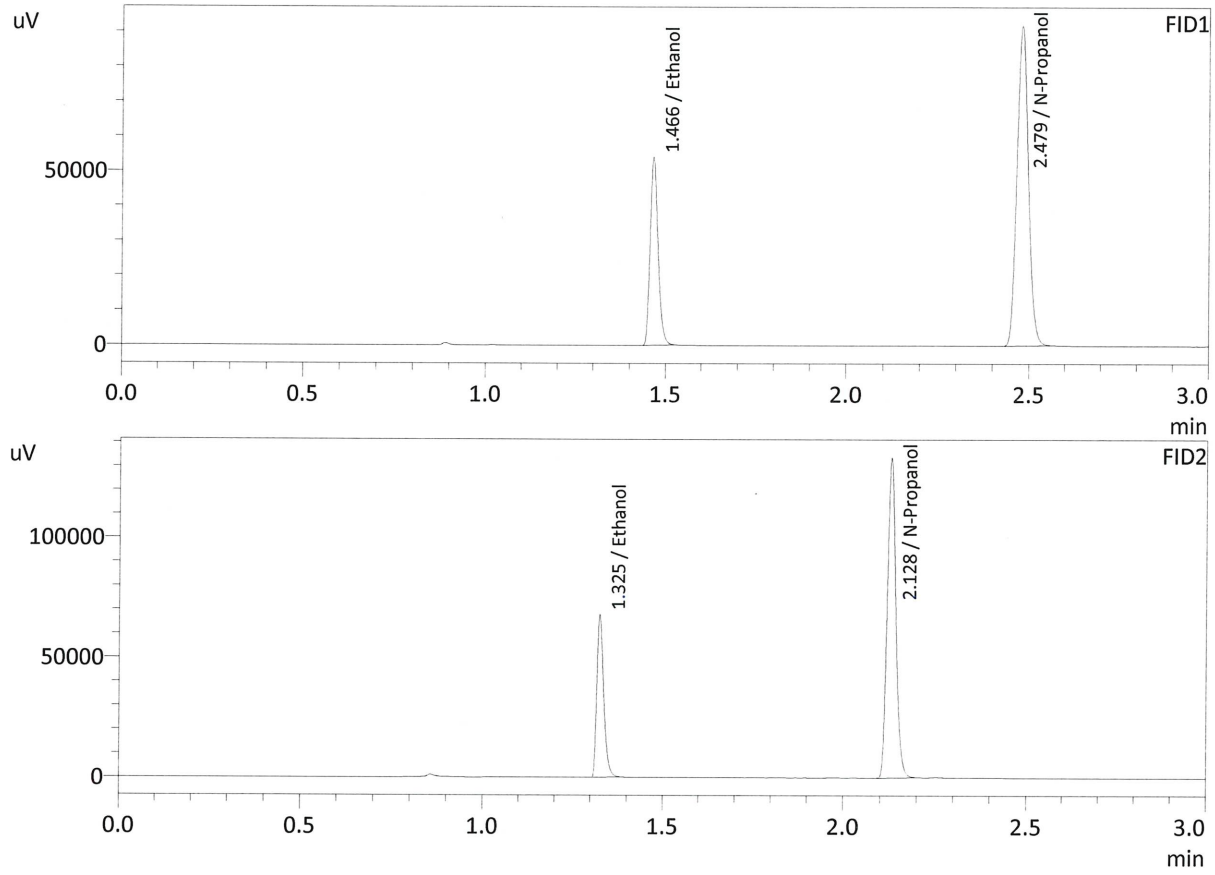
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0962	40225	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204642	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0960	43687	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	223384	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 5/24/2022 12:21:08 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\TEMPLATE\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

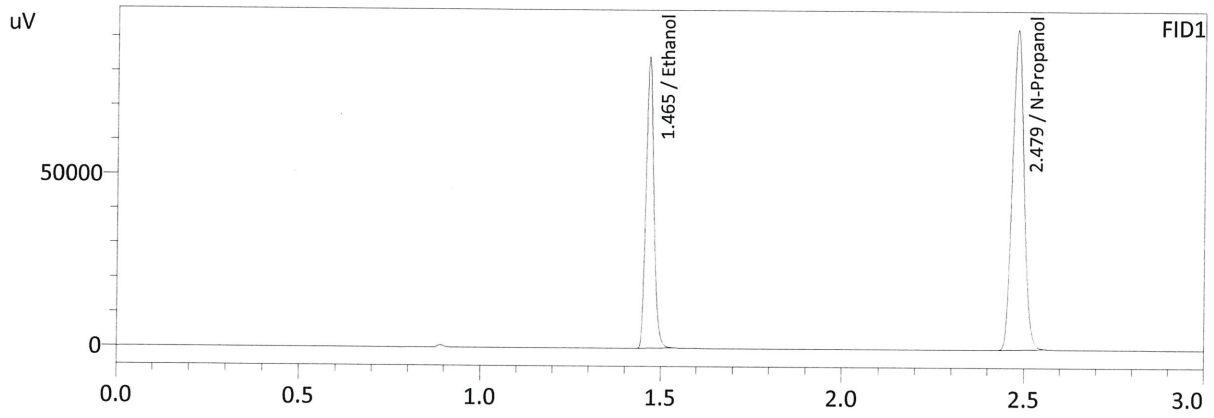
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1967	82467	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202852	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

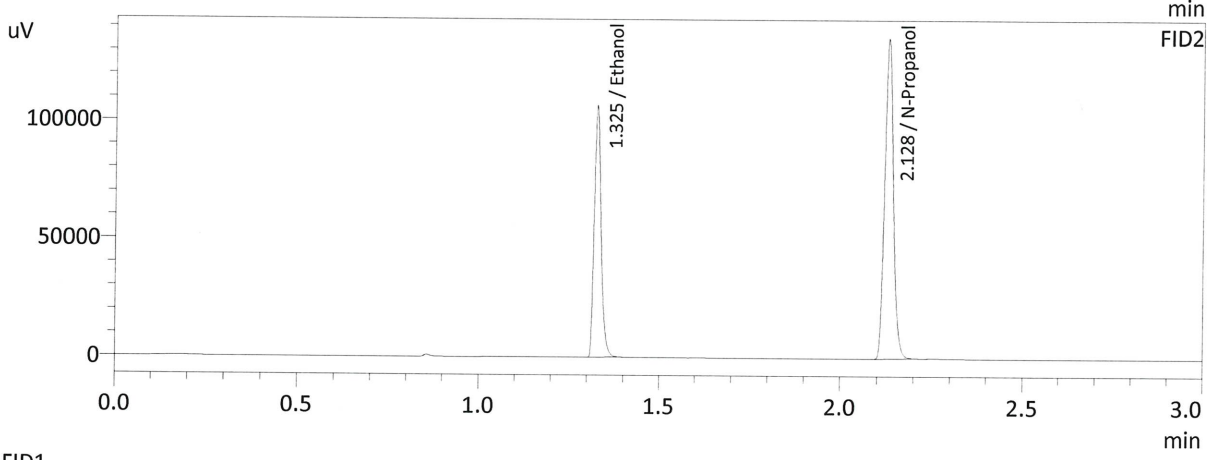
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1970	89729	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221314	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 5/24/2022 12:29:30 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\TEMPLATE\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

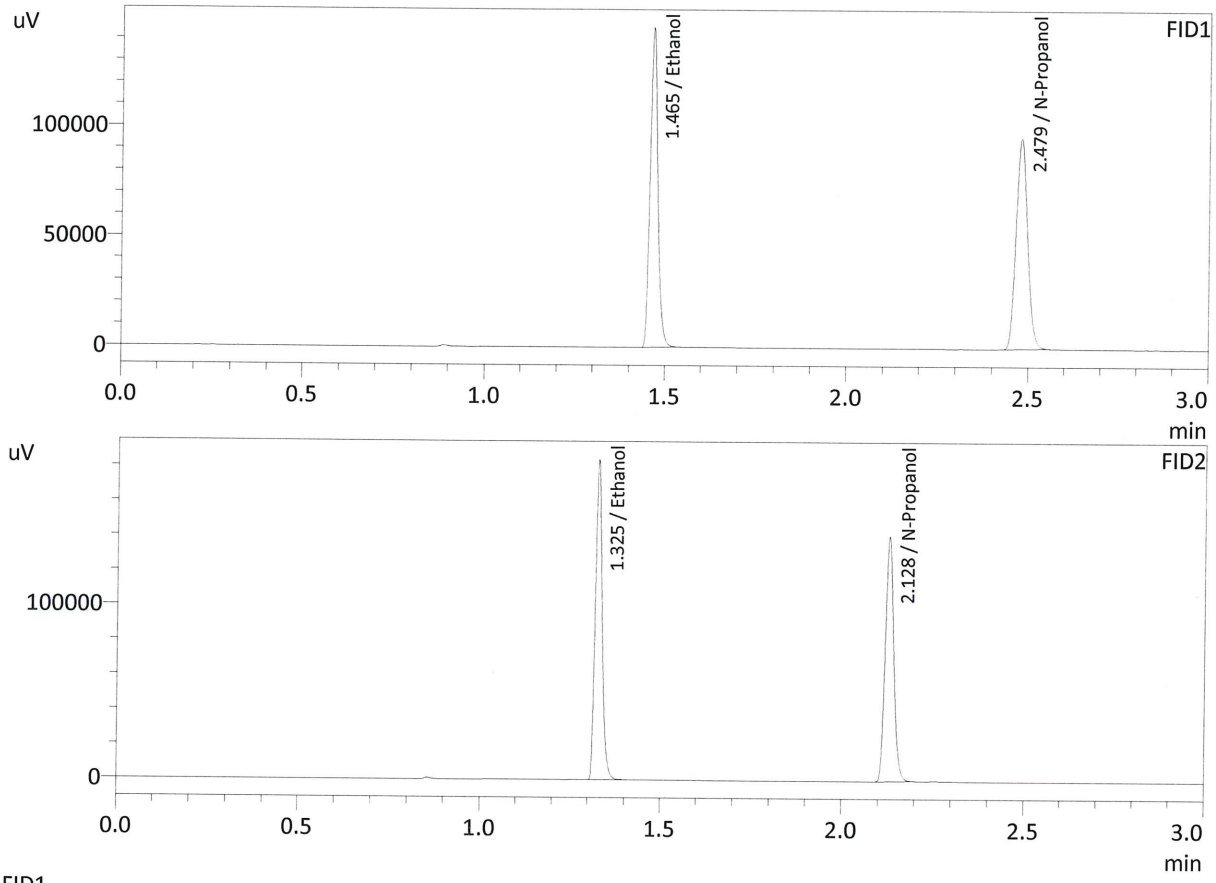
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3026	128789	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	205207	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.3029	140122	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	224007	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 5/24/2022 12:38:16 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\TEMPLATE\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

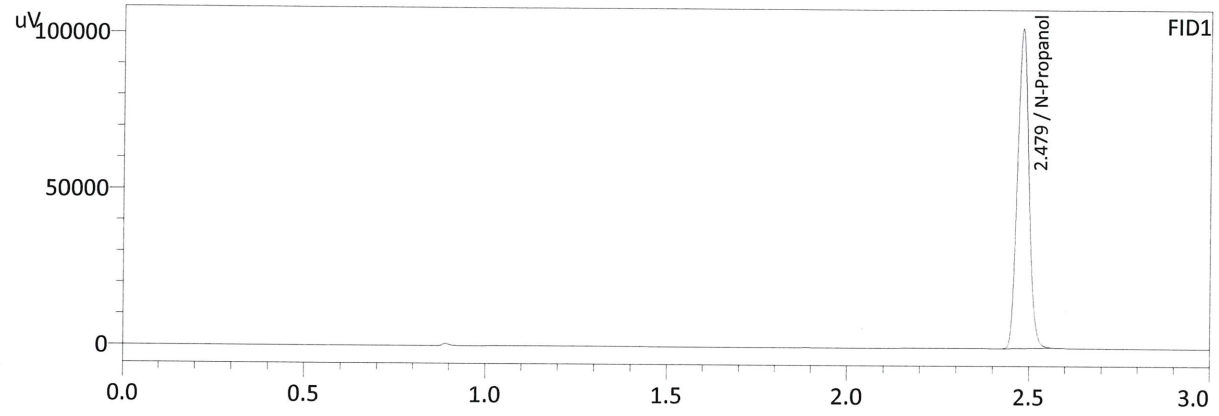
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5000	220687	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	212234	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

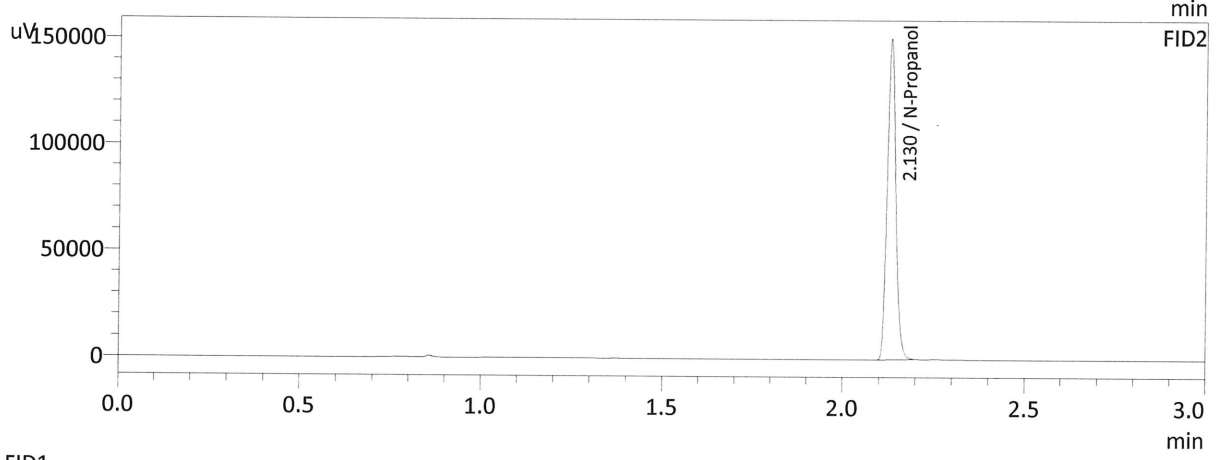
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.4997	239945	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	231892	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 5/24/2022 12:46:02 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226508	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	248219	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

Meridian Blood Alcohol Analysis Batch Table

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

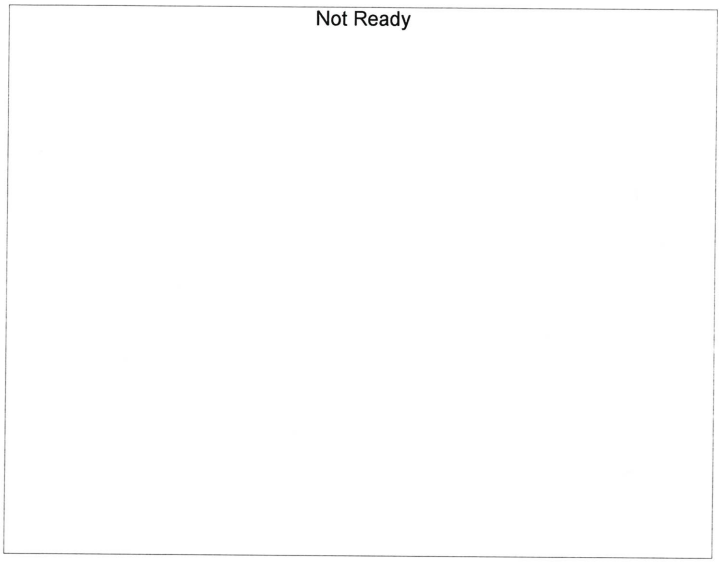
Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(I)	1	ALCOHOL.GCM
2	0.100	1:Standard	2	ALCOHOL.GCM
3	0.200	1:Standard	3	ALCOHOL.GCM
4	0.300	1:Standard	4	ALCOHOL.GCM
5	0.500	1:Standard	5	ALCOHOL.GCM
6	INT STD BLK	0:Unknown	0	ALCOHOL.GCM

JG

Calibration Table

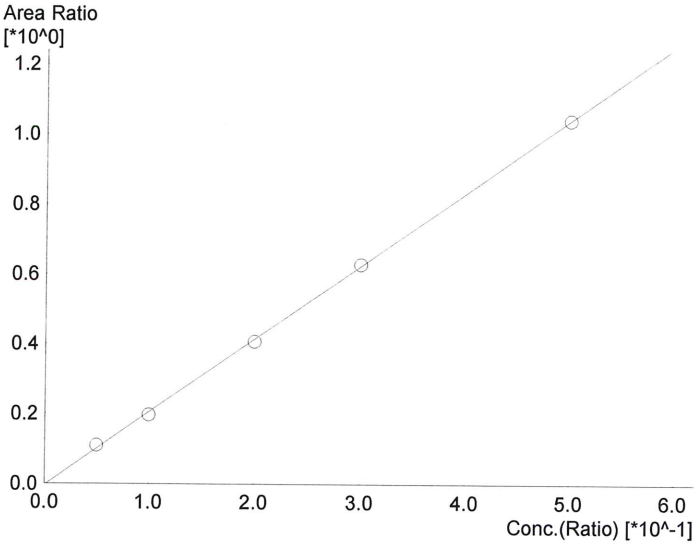
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :C:\LabSolutions\Data\220524\CALIBRATION\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\220524\CALIBRATION\CALCURVE_TEMPLATE.gcb
Date Acquired :5/24/2022 12:38:16 PM
Date Created :5/24/2022 12:32:38 PM
Date Modified :5/24/2022 12:41:18 PM



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

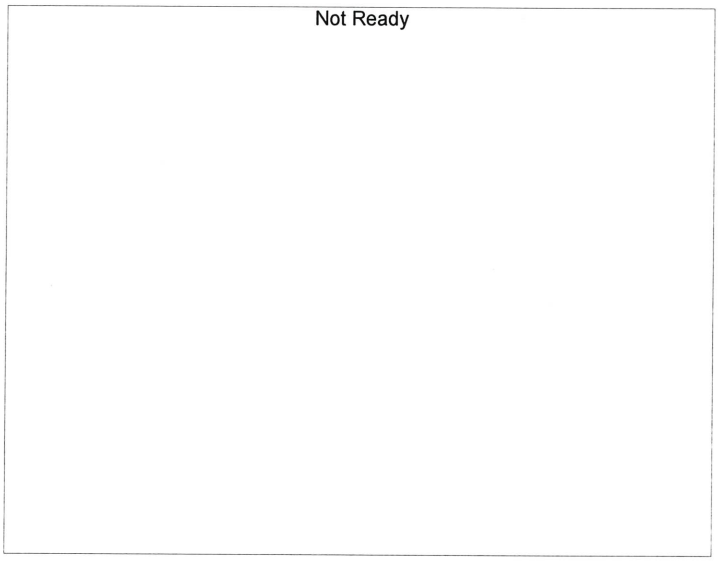
#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID1
Function : f(x)=2.08820*x-0.00434954
R^2 value= 0.9996043
FitType: Linear
ZeroThrough: Not Through

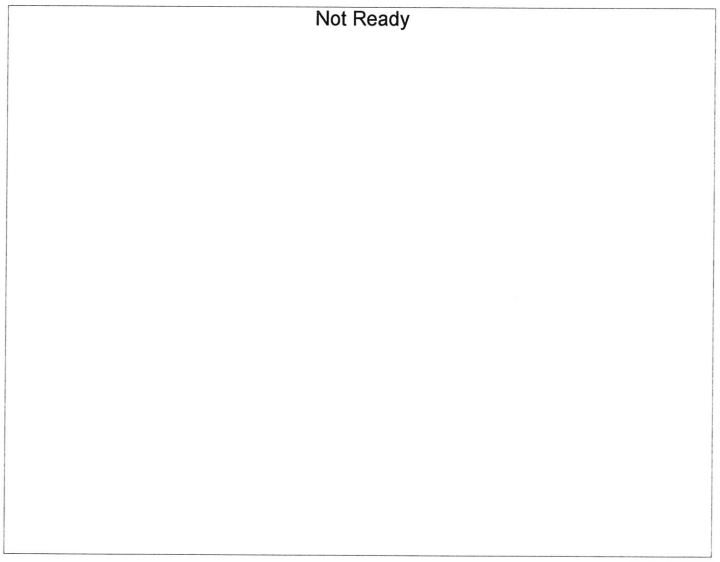
#	Conc.	Area	Std. Conc.
1	0.050	27014	0.0543
2	0.100	40225	0.0962
3	0.200	82467	0.1967
4	0.300	128789	0.3026
5	0.500	220687	0.5000

JL



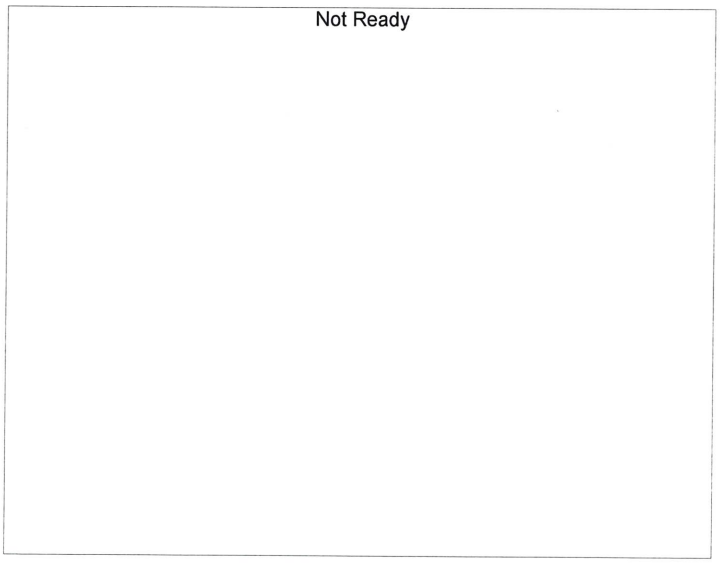
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



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

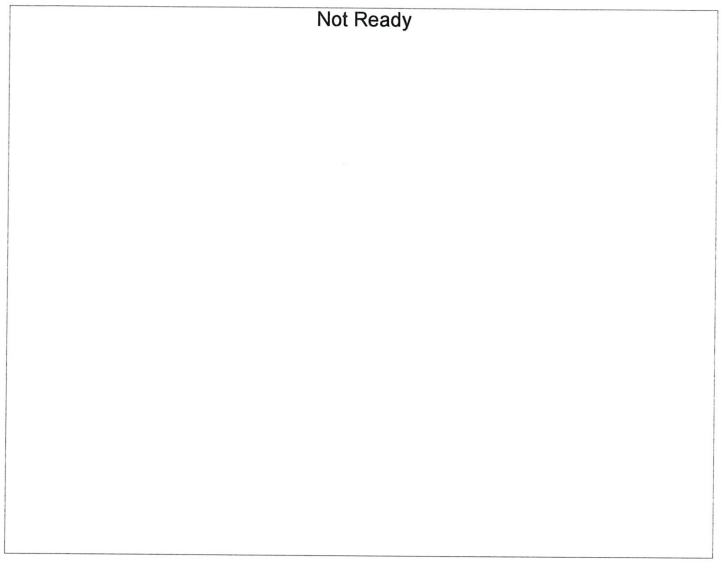
#	Conc.	Area	Std. Conc.



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

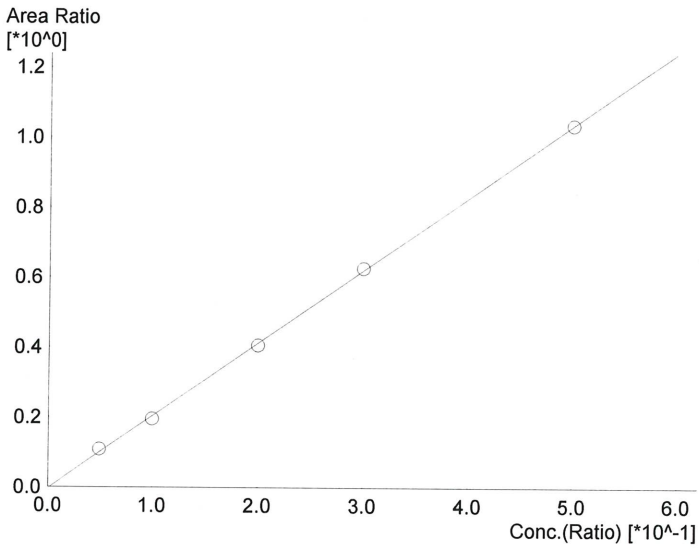
#	Conc.	Area	Std. Conc.

JG



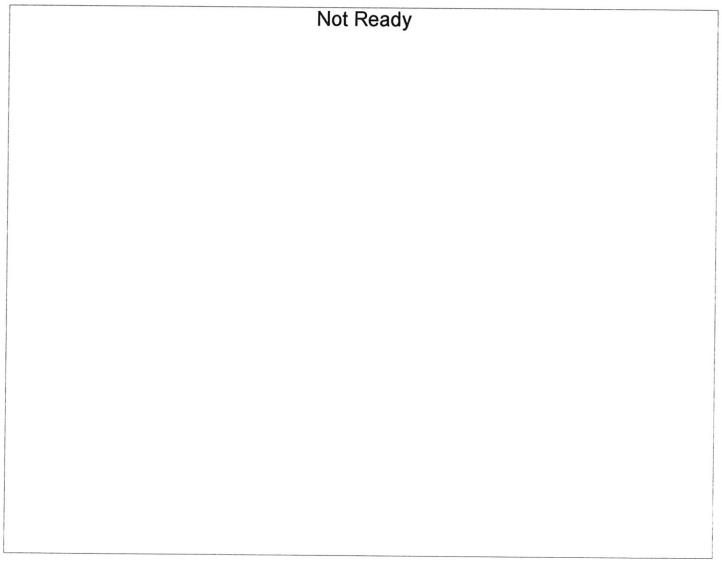
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID2
Function : f(x)=2.07869*x-0.00417658
R^2 value= 0.9996121
FitType: Linear
ZeroThrough: Not Through

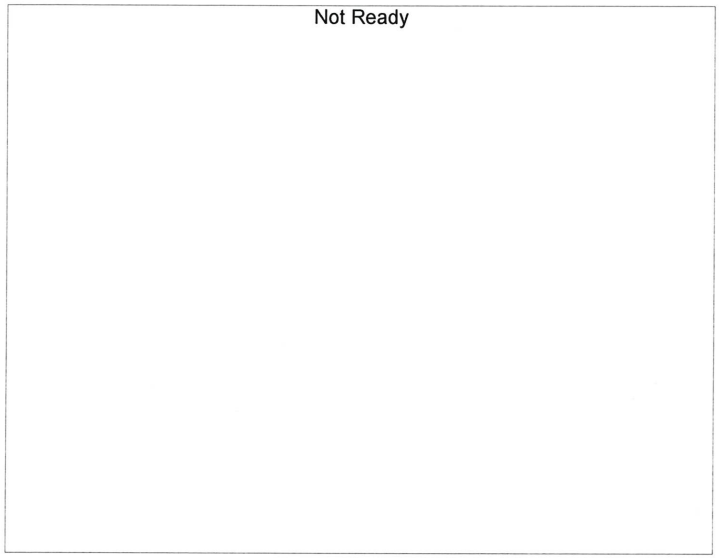
#	Conc.	Area	Std. Conc.
1	0.050	29277	0.0541
2	0.100	43687	0.0960
3	0.200	89729	0.1970
4	0.300	140122	0.3029
5	0.500	239945	0.4997



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

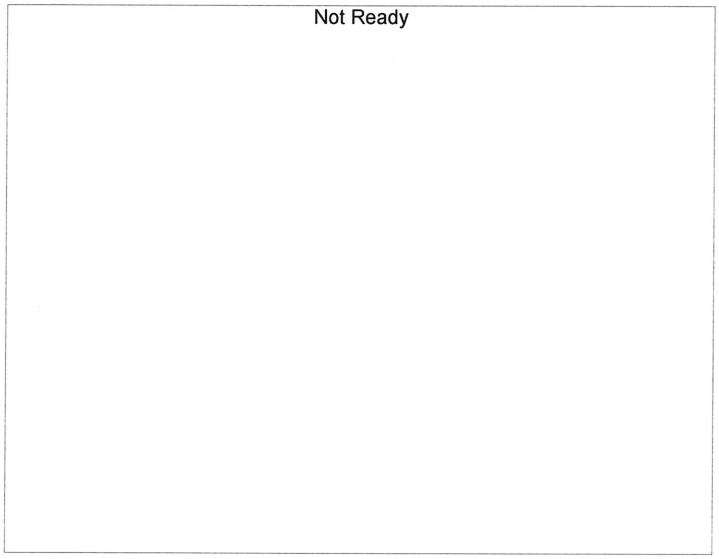
#	Conc.	Area	Std. Conc.

JG



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.

JC