Calibration Table

Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Method File>>
Method File :C:\LabSolutions\Data\2022\4-19-22 TS\4-20-22 RC TS CAL CURVE USED\ALCOHOL.gcm
Date Created :2/3/2022 1:34:42 PM
Date Modified :4/20/2022 8:07:32 AM

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

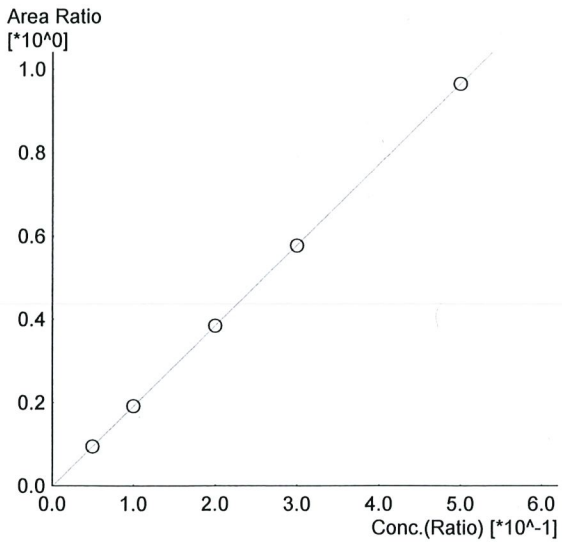
Name : ACETALDEHYDE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

REVIEWED
By Melissa (Nikka) Bradley at 2:19 pm, Apr 22, 2022

NB

RC



Name : ETHANOL
Detector Name: FID1
Function : f(x)=1.93199*x-0.00208355
R^2 value= 0.9999985
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16387	0.0501	0.050_4192022_001.gcd
2	0.100	33389	0.1000	0.100_4192022_002.gcd
3	0.200	65736	0.1999	0.200_4192022_003.gcd
4	0.300	101260	0.2996	0.300_4192022_004.gcd
5	0.500	170413	0.5002	0.500_4192022_005.gcd

Not Ready

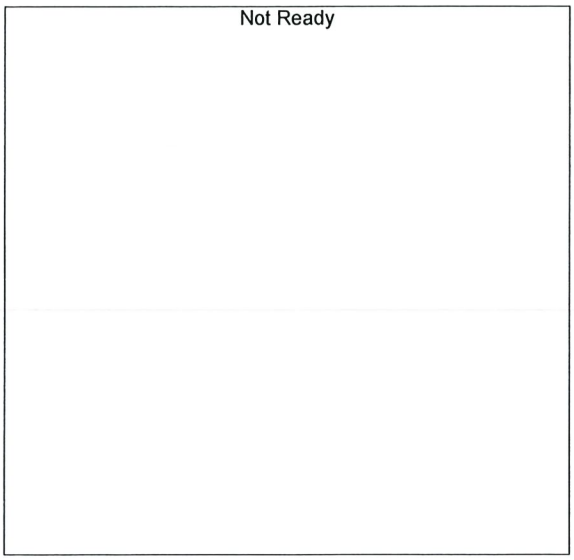
Name : ISOPROPYL ALCOHOL
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

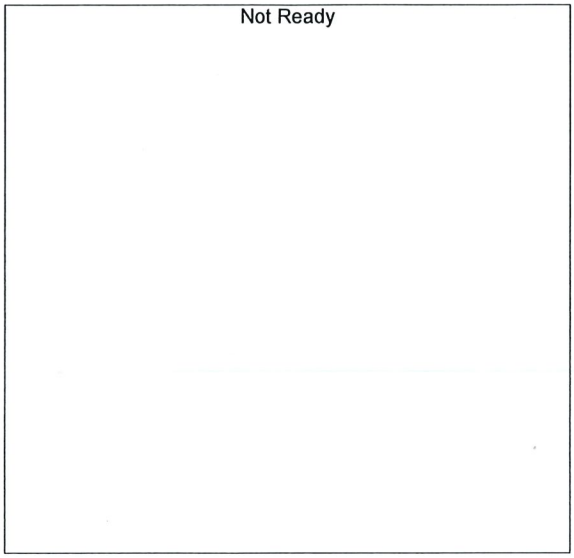
Name : ACETONE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



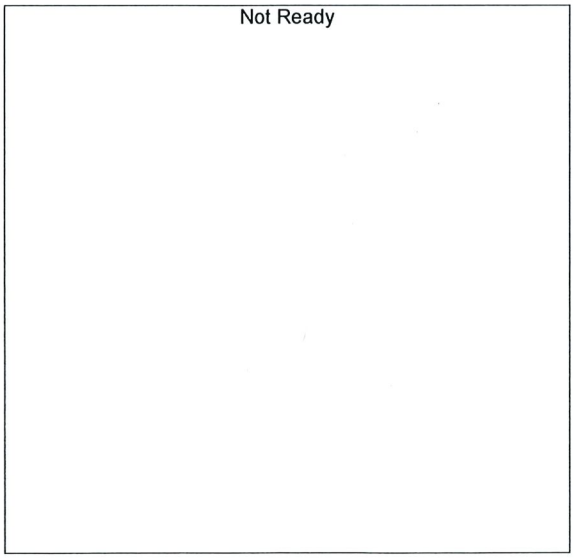
Name : DFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



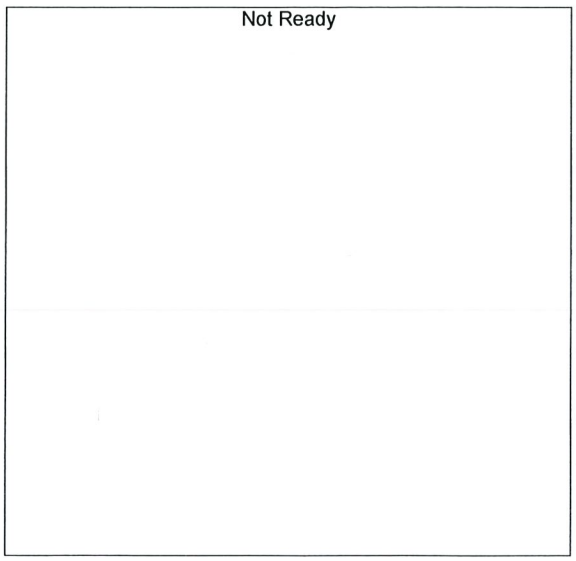
Name : TFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



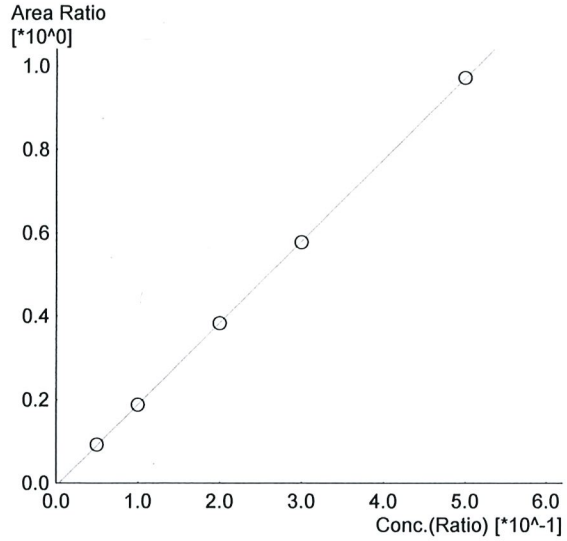
Name : ACETALDEHYDE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



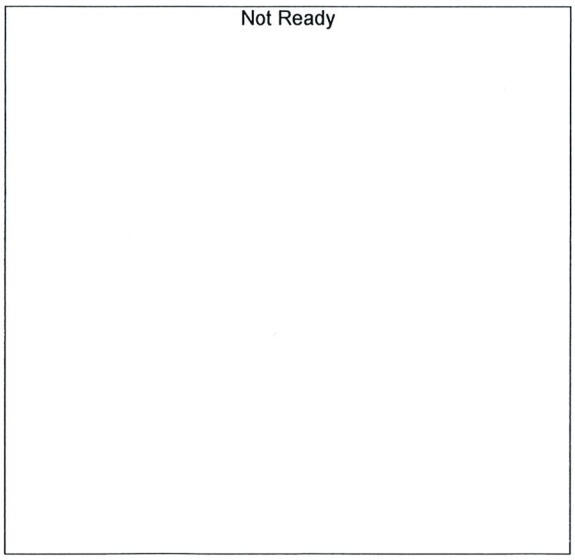
Name : METHANOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



Name : ETHANOL
Detector Name: FID2
Function : f(x)=1.95519*x-0.00737156
R^2 value= 0.9999829
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16613	0.0508	0.050_4192022_001.gcd
2	0.100	34600	0.0998	0.100_4192022_002.gcd
3	0.200	69431	0.1994	0.200_4192022_003.gcd
4	0.300	107647	0.2991	0.300_4192022_004.gcd
5	0.500	182368	0.5006	0.500_4192022_005.gcd



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

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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.	Data File Name

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

4/21/2022

Worklist: 5797

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2022-1159	1	BCK	Alcohol Analysis

Also ran sample P2022-0795-1 from Worklist 5734 with this sample.

RC 4/21/22

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600GB9897

Volatiles Quality Assurance Controls **Run Date(s): 4/20/22**

Calibration Date: *(if different)* **4/19/22**

Worklist #: 5734 & 5797

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0717 g/100cc
					g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2031 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	Exp:	Oct-24	Lot #	FN06041902	ok
Curve Fit:		Column 1	0.99999	Column2	0.99998

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0501	0.0508	0.0007	0.0504
100	0.100	0.090 - 0.110	0.1000	0.0998	0.0002	0.0999
200	0.200	0.180 - 0.220	0.1999	0.1994	0.0005	0.1996
300	0.300	0.270 - 0.330	0.2996	0.2991	0.0005	0.2993
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5002	0.5006	0.0004	0.5004

Internal Standard	Average	(-) 20%	(+) 20%
N-Propanol:	183856.4	147085.1	220627.7

Aqueous Controls

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

RC

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

Internal Standard Monitoring Worksheet

Worklist #: 5734 & 5797 **Run Date(s):** 4/20/22

Internal Standard Solution: 022422	Prep Date: 02/24/22	Exp Date: 08/24/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	177250	189739	183494.5
0.080	175804	188052	181928
QC1	178294	190768	184531
QC1	178089	190496	184292.5
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC2	178284	190071	184177.5
QC2	178831	190599	184715
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
183856.4	147085.1	220627.7

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

TS

Calibration Table

Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>>
Method File :C:\LabSolutions\Data\2022\4-19-22 TS\ALCOHOL.gcm
Batch File :C:\LabSolutions\Data\2022\4-19-22 TS\041922_TS.gcb
Date Acquired :4/19/2022 10:52:05 AM
Date Created :4/19/2022 10:48:41 AM
Date Modified :4/20/2022 8:07:32 AM

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

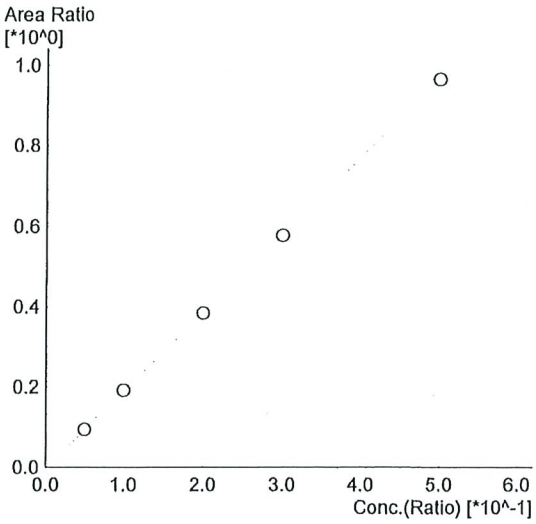
Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

RC

TB



Name : ETHANOL
Detector Name: FID1
Function : f(x)=1.93199*x-0.00208355
R^2 value= 0.9999985
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16387	0.0501	0.050_4192022_001.gcd
2	0.100	33389	0.1000	0.100_4192022_002.gcd
3	0.200	65736	0.1999	0.200_4192022_003.gcd
4	0.300	101260	0.2996	0.300_4192022_004.gcd
5	0.500	170413	0.5002	0.500_4192022_005.gcd

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.	Data File Name

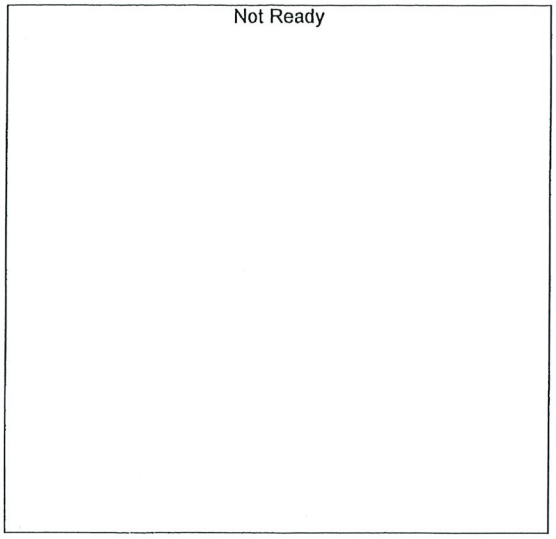
Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

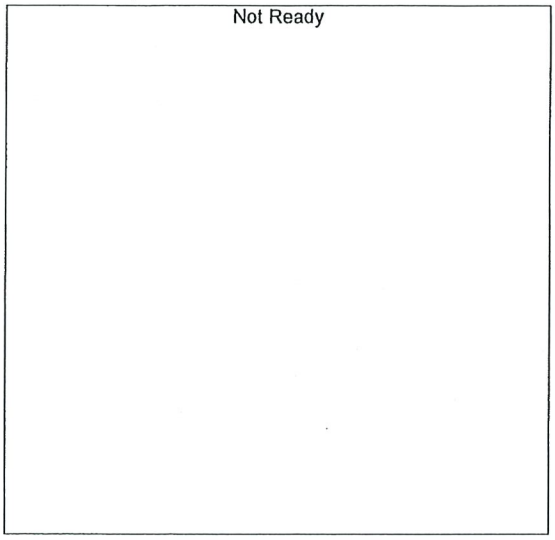
RC

TS



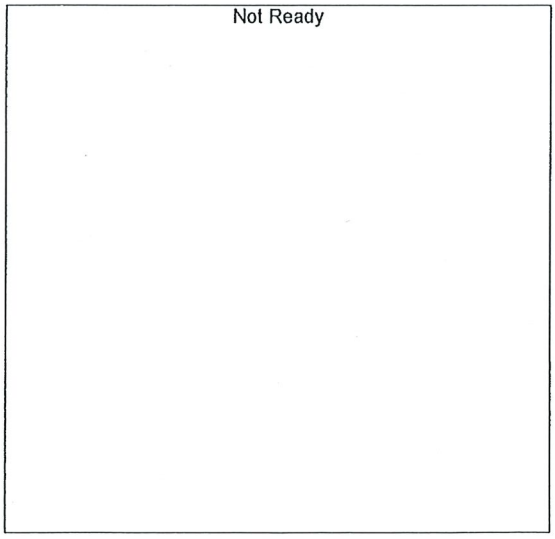
Name : DFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



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

#	Conc.	Area	Std. Conc.	Data File Name

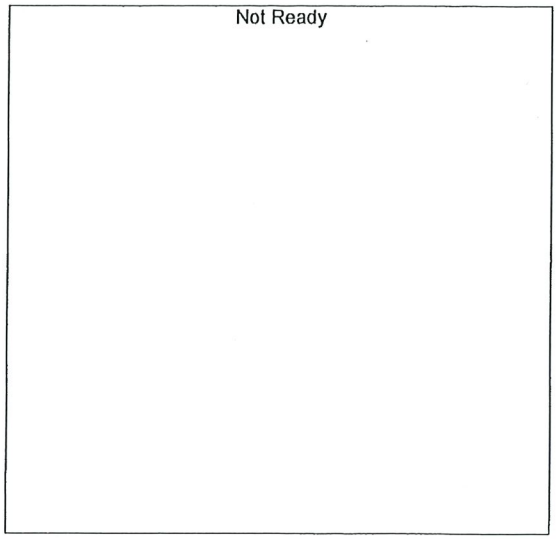


Name : ACETALDEHYDE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

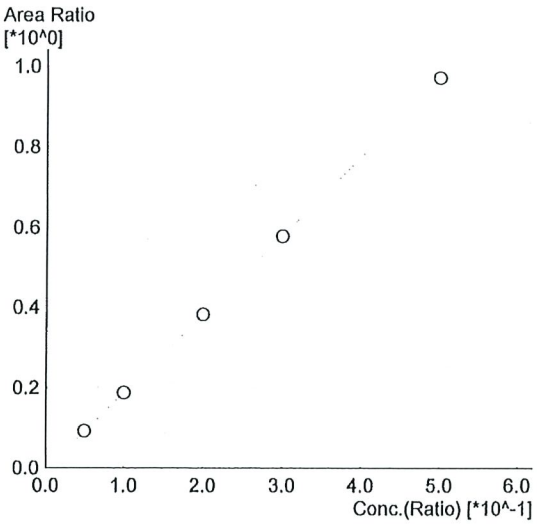
RC

TS



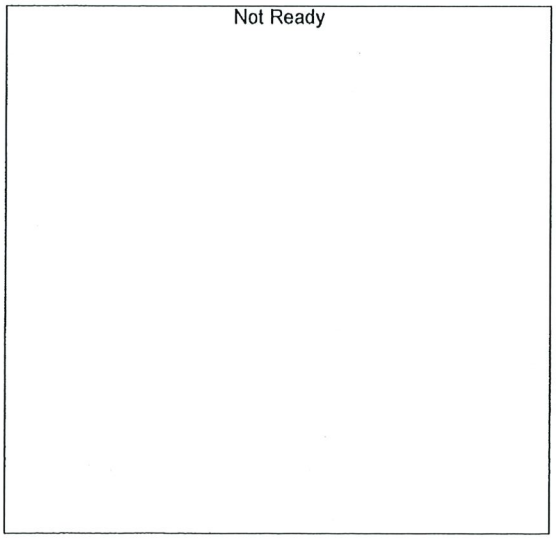
Name : METHANOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



Name : ETHANOL
Detector Name: FID2
Function : f(x)=1.95519*x-0.00737156
R^2 value= 0.9999829
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16613	0.0508	0.050_4192022_001.gcd
2	0.100	34600	0.0998	0.100_4192022_002.gcd
3	0.200	69431	0.1994	0.200_4192022_003.gcd
4	0.300	107647	0.2991	0.300_4192022_004.gcd
5	0.500	182368	0.5006	0.500_4192022_005.gcd



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

#	Conc.	Area	Std. Conc.	Data File Name

AC

Not Ready

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.	Data File Name

Not Ready

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

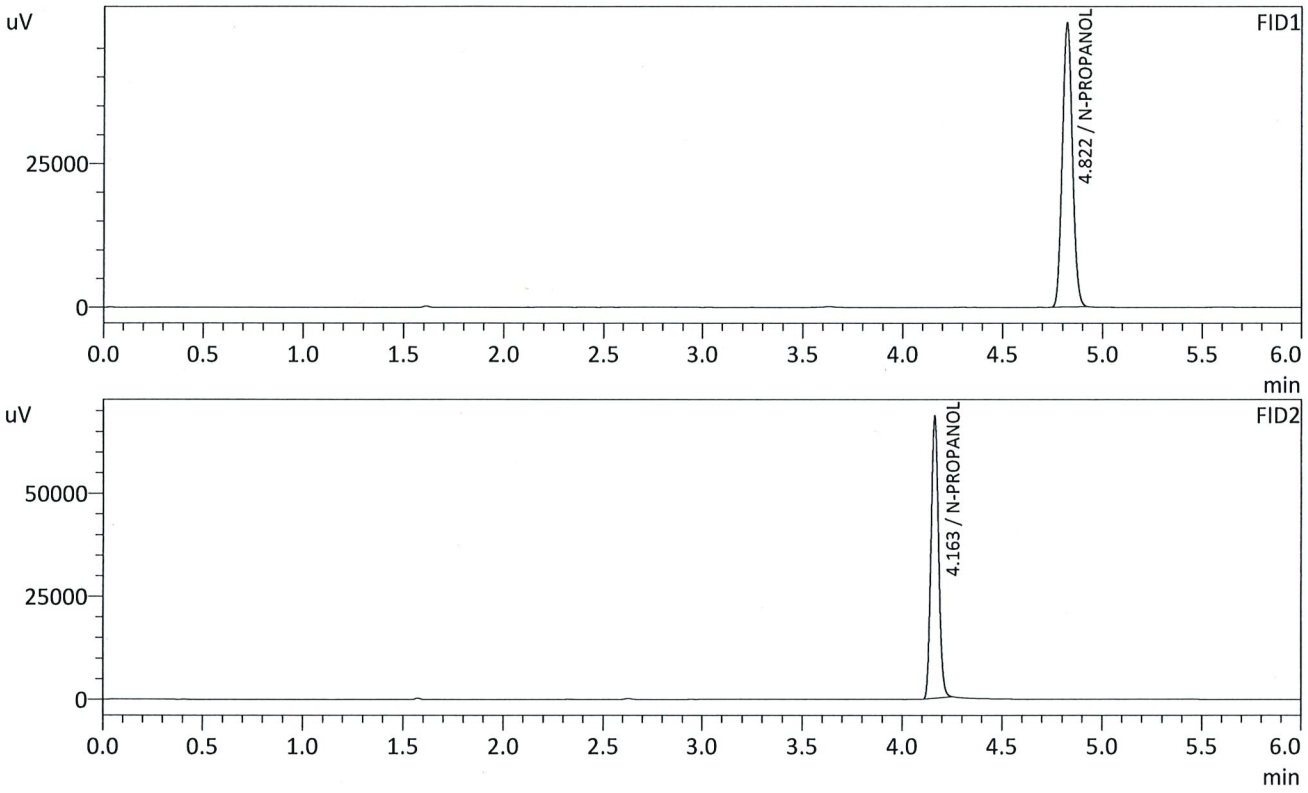
#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

Sample Name : INT STD BLK 1
Vial # : 1
Data Filename : INT STD BLK 1_4202022_001.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 3:38:25 PM
Date Processed : 4/21/2022 8:09:35 AM
C:\LabSolutions\Data\2022\4-19-22 TS\4-20-22 RC TS CAL CURVE USED\ALCOHOL.gcm



FID1

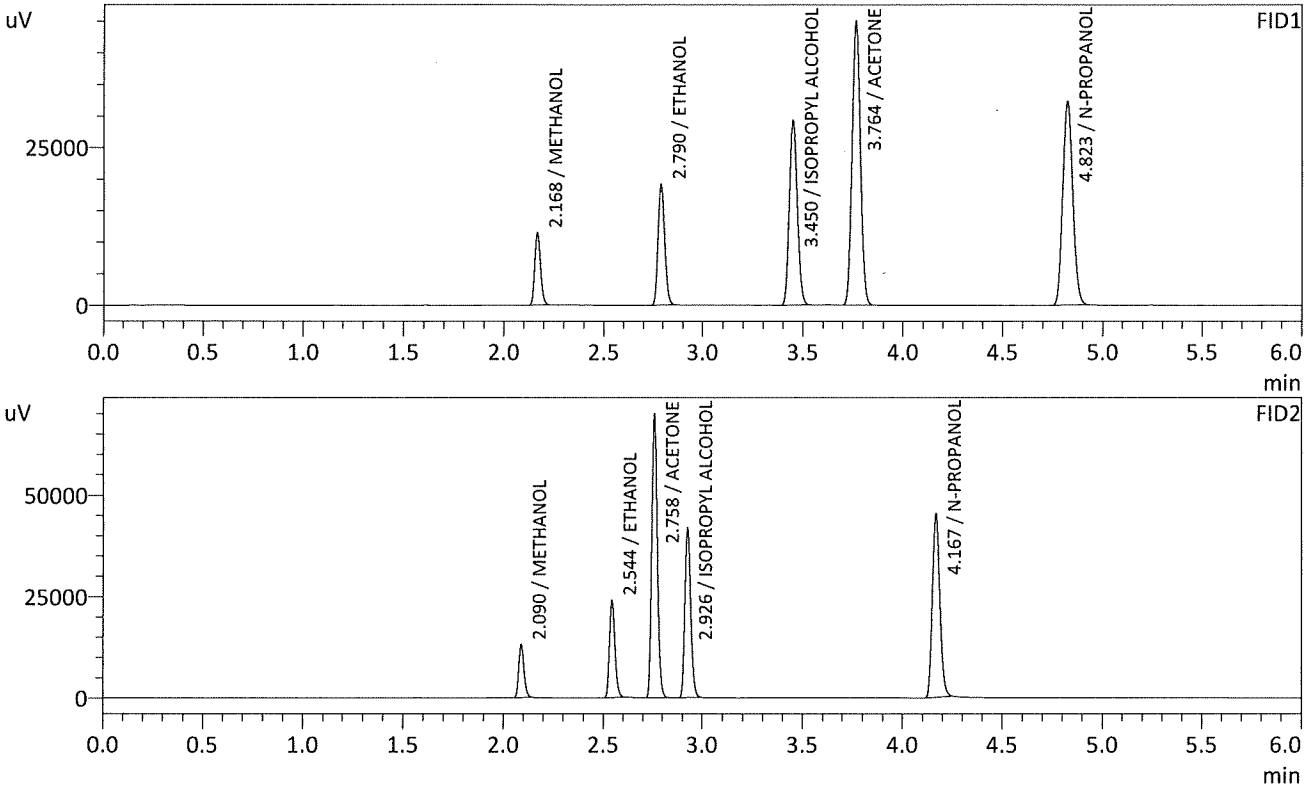
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	173288	49251
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	181830	68091
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : MULTI-COMP MIX
Vial # : 2
Data Filename : MULTI-COMP MIX_4202022_002.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 3:47:55 PM
Date Processed : 4/21/2022 8:09:36 AM
C:\LabSolutions\Data\2022\4-19-22 TS\4-20-22 RC TS CAL CURVE USED\ALCOHOL.gcm



FID1

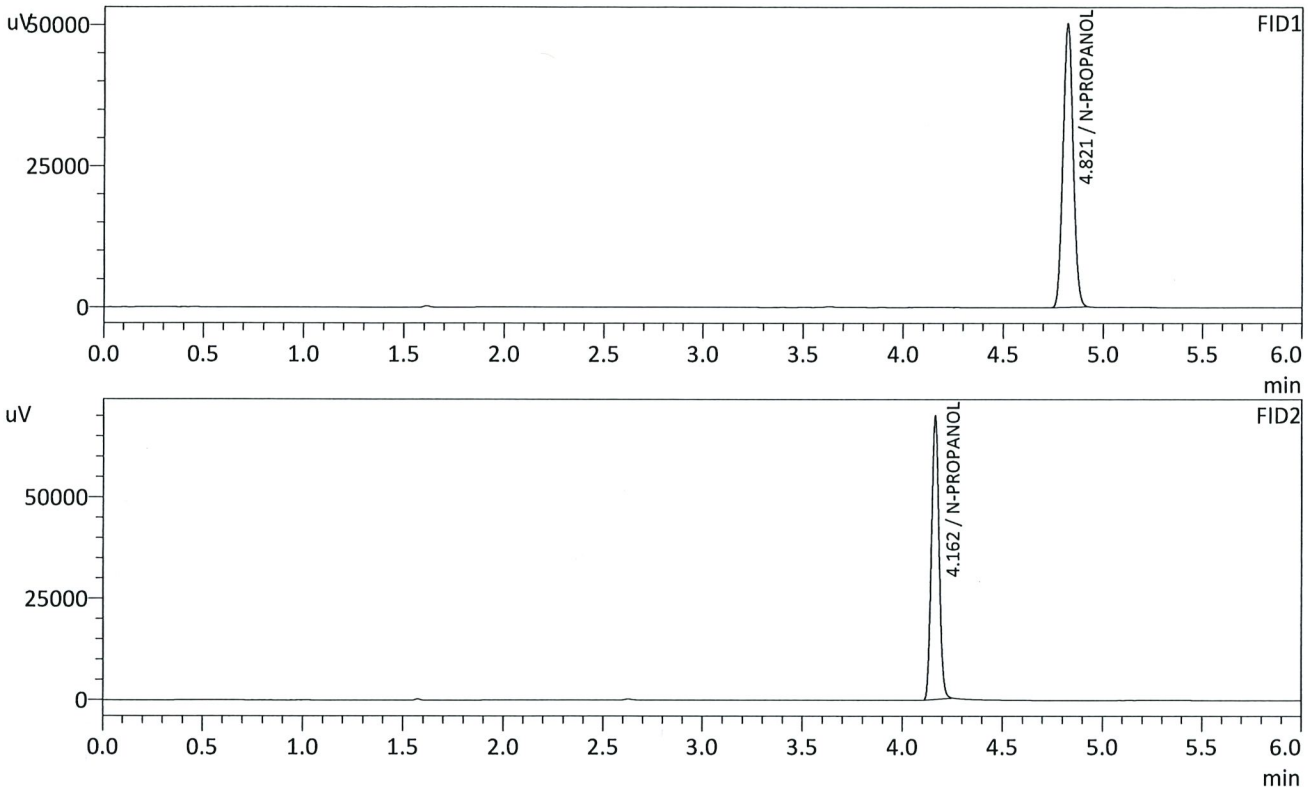
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	22905	11391
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2025	g/100cc	43804	19024
ISOPROPYL ALCOHOL	0.0000	g/100cc	80792	29131
ACETONE	0.0000	g/100cc	127621	44920
N-PROPANOL	0.0000	g/100cc	112510	32258
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	24200	12941
ETHANOL	0.2061	g/100cc	46787	23503
ACETONE	0.0000	g/100cc	137607	68494
ISOPROPYL ALCOHOL	0.0000	g/100cc	86462	41153
N-PROPANOL	0.0000	g/100cc	118219	44925
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : INT STD BLK 2
Vial # : 3
Data Filename : INT STD BLK 2_4202022_003.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 3:57:16 PM
Date Processed : 4/21/2022 8:09:37 AM
C:\LabSolutions\Data\2022\4-19-22 TS\4-20-22 RC TS CAL CURVE USED\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	176004	50028
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	185073	69611
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1 **Item #** **Analysis Date(s): 4/20/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0718	0.0716	0.0002	0.0717	0.0000	0.0717
(g/100cc)	0.0718	0.0716	0.0002	0.0717		

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%**

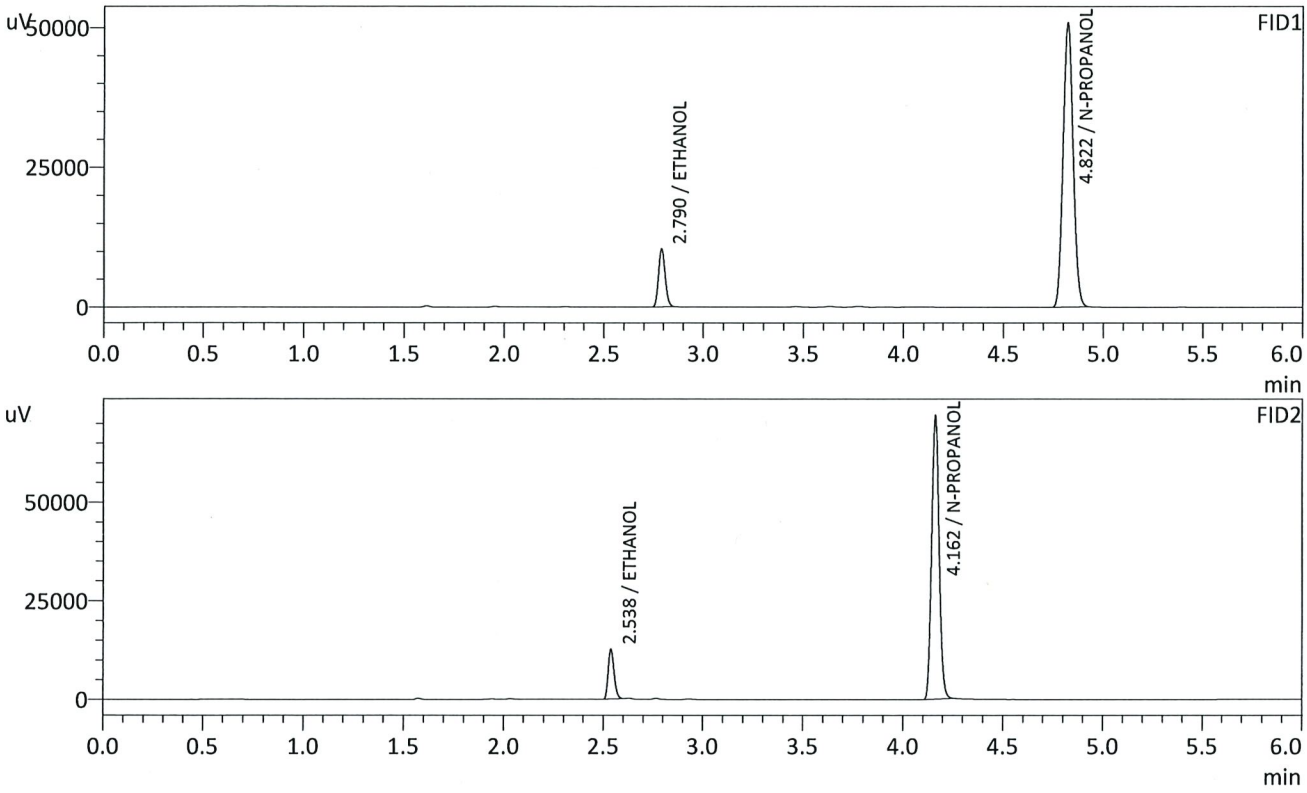
Overall Mean (g/100cc)	Low	High	5% of Mean
0.071	**0.067**	**0.075**	**0.004**

Reported Result

0.071

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Vial # : 4
Data Filename : QC-1-1-A_4202022_004.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 4:07:06 PM
Date Processed : 4/21/2022 8:09:38 AM
C:\LabSolutions\Data\2022\4-19-22 TS\4-20-22 RC TS CAL CURVE USED\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0718	g/100cc	24383	10331
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178294	50704
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0716	g/100cc	25320	12565
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	190768	71651
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC-1-1-B
Vial # : 5
Data Filename : QC-1-1-B_4202022_005.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 4:16:31 PM
Date Processed : 4/21/2022 8:09:39 AM
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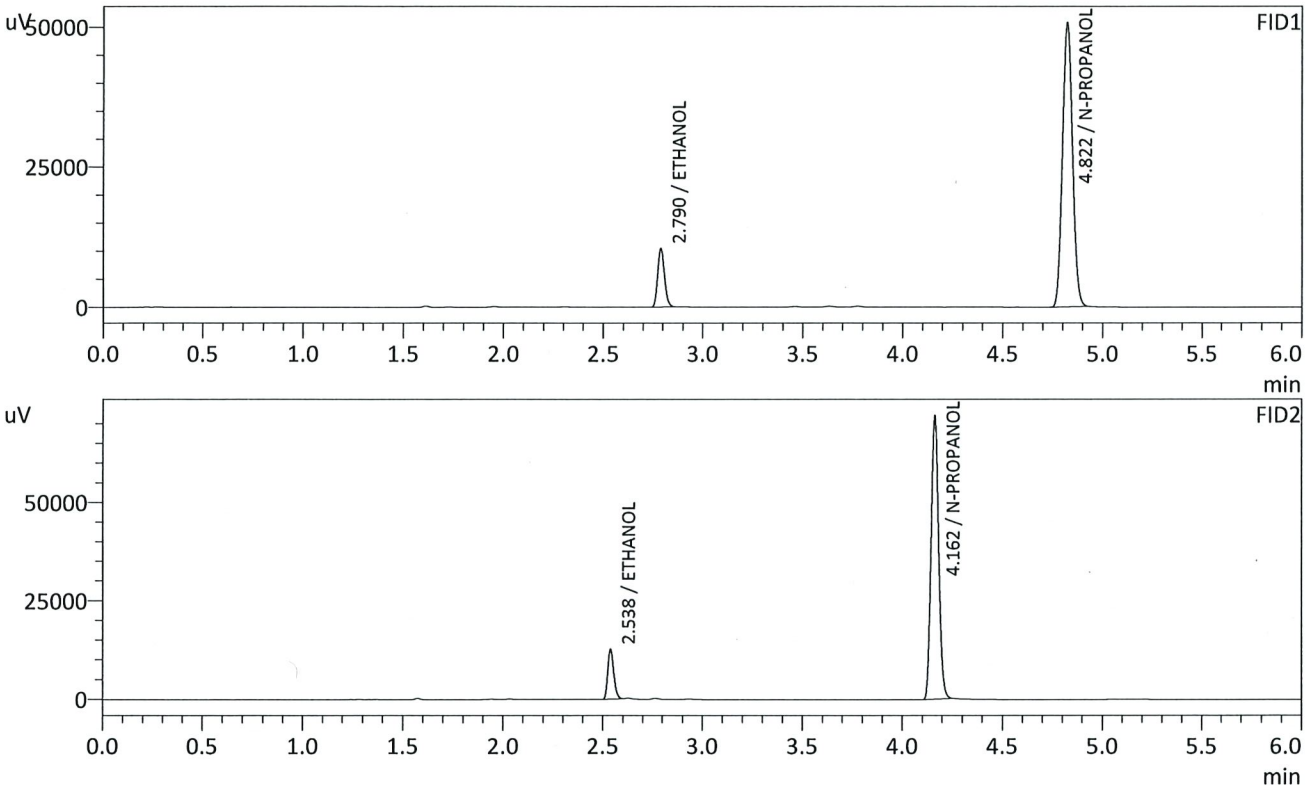

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0718	g/100cc	24362	10340
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178089	50606
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0716	g/100cc	25266	12532
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	190496	71539
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 QA **Item #** **Analysis Date(s): 4/20/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0799	0.0796	0.0003	0.0797	0.0004	0.0799
(g/100cc)	0.0803	0.0799	0.0004	0.0801		

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
0.079	**0.075**	**0.083**	**0.004**

Reported Result

0.079

Calibration and control data are stored centrally.

Revision: 1
Issue Date: 12/29/2021
Issuing Authority: Quality Manager

Sample Name : 0.08 QA - A
Vial # : 6
Data Filename : 0.08 QA - A_4202022_006.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 4:25:48 PM
Date Processed : 4/21/2022 8:09:40 AM
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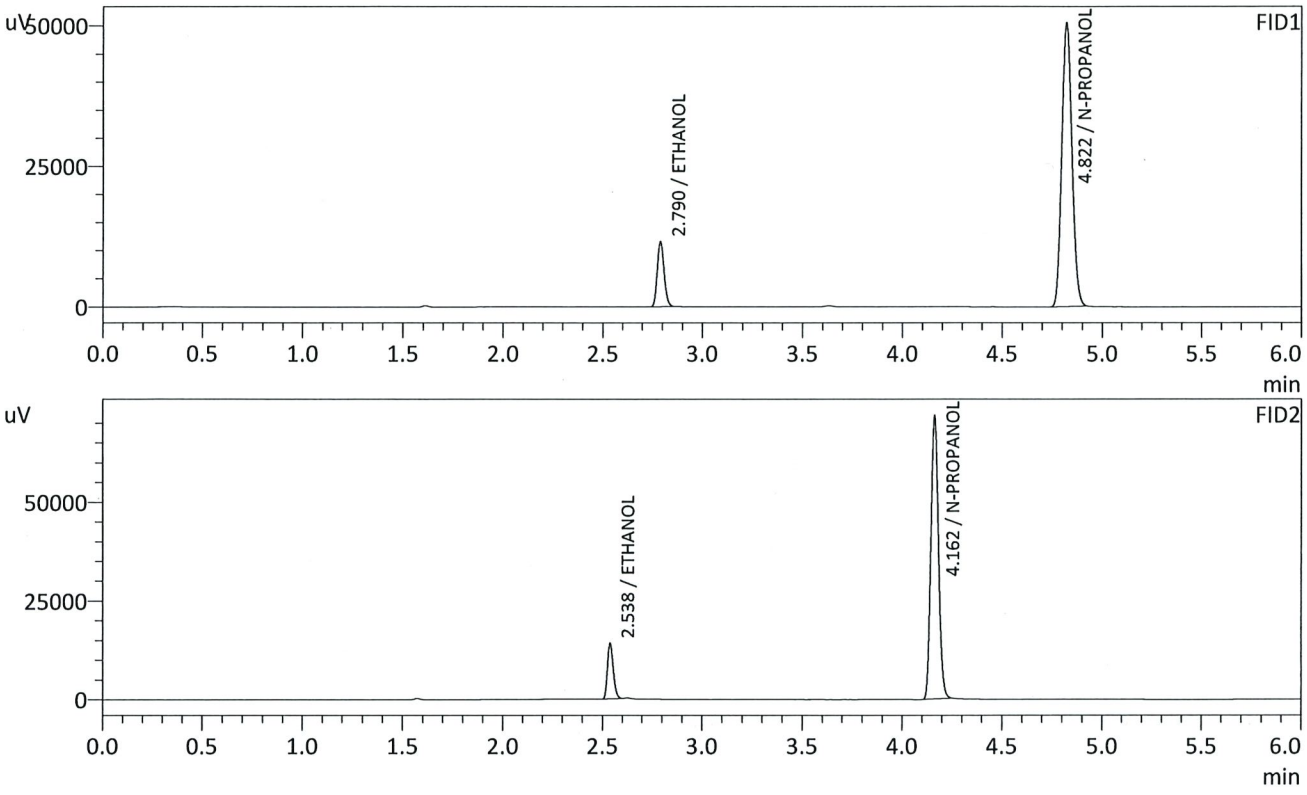

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0799	g/100cc	27001	11469
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	177250	50347
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0796	g/100cc	28159	14008
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	189739	71334
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : 0.08 QA - B
Vial # : 7
Data Filename : 0.08 QA - B_4202022_007.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 4:35:36 PM
Date Processed : 4/21/2022 8:09:42 AM
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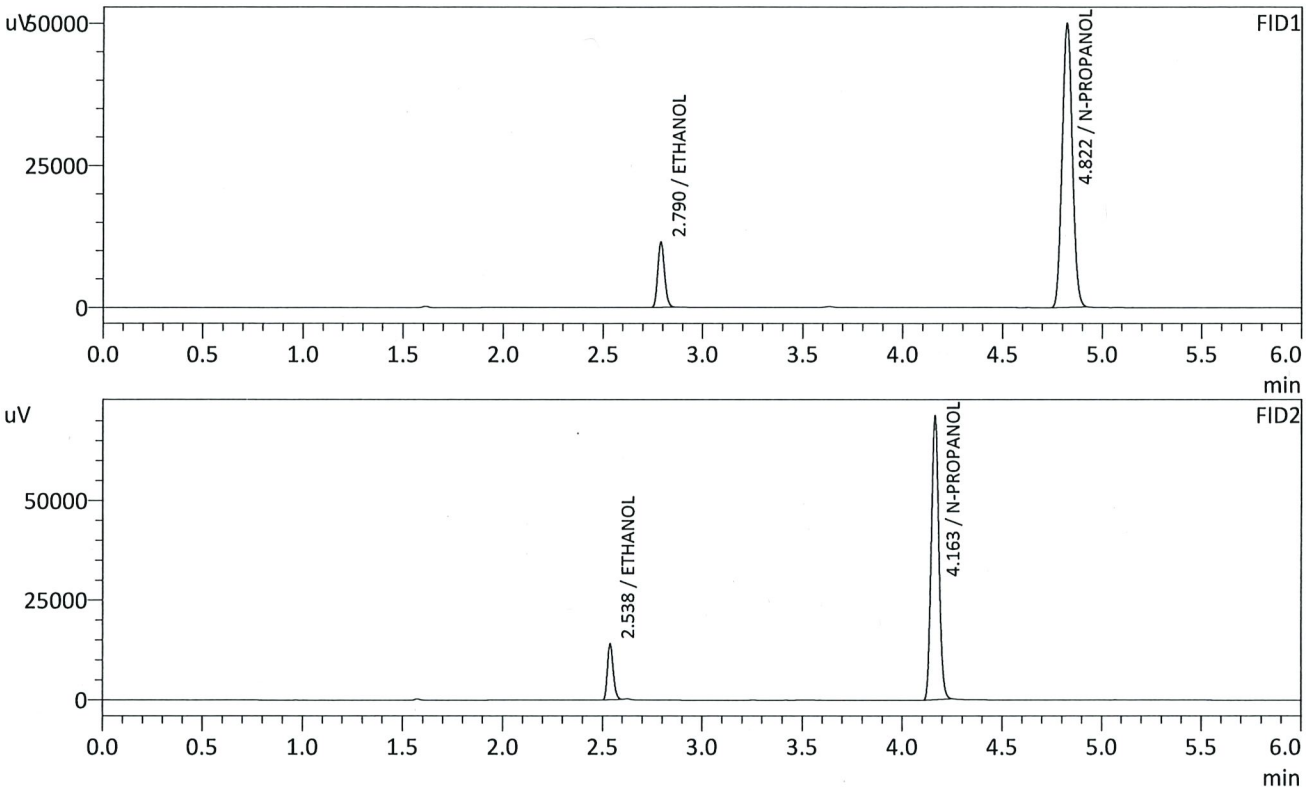

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0803	g/100cc	26922	11418
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	175804	49842
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0799	g/100cc	28025	13919
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	188052	70724
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2 **Item #** **Analysis Date(s): 4/20/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2031	0.2023	0.0008	0.2027	0.0008	0.2031
(g/100cc)	0.2038	0.2032	0.0006	0.2035		

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
0.203	**0.192**	**0.214**	**0.011**

Reported Result

0.203

Calibration and control data are stored centrally.

Sample Name : QC-2-1-A
Vial # : 12
Data Filename : QC-2-1-A_4202022_012.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 5:22:54 PM
Date Processed : 4/21/2022 8:09:48 AM
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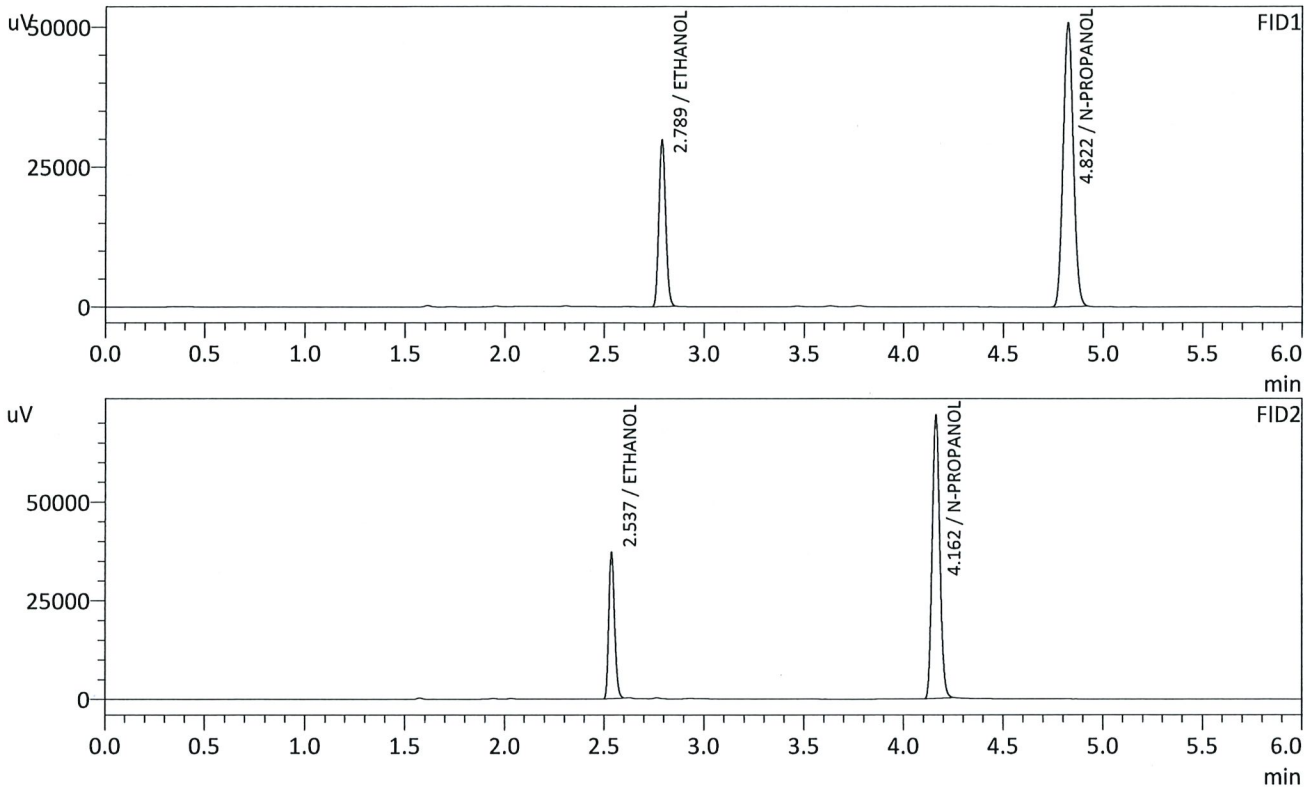

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2031	g/100cc	69610	29756
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178284	50570
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2023	g/100cc	73784	36978
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	190071	71386
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC-2-1-B
Vial # : 13
Data Filename : QC-2-1-B_4202022_013.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 5:32:40 PM
Date Processed : 4/21/2022 8:09:49 AM
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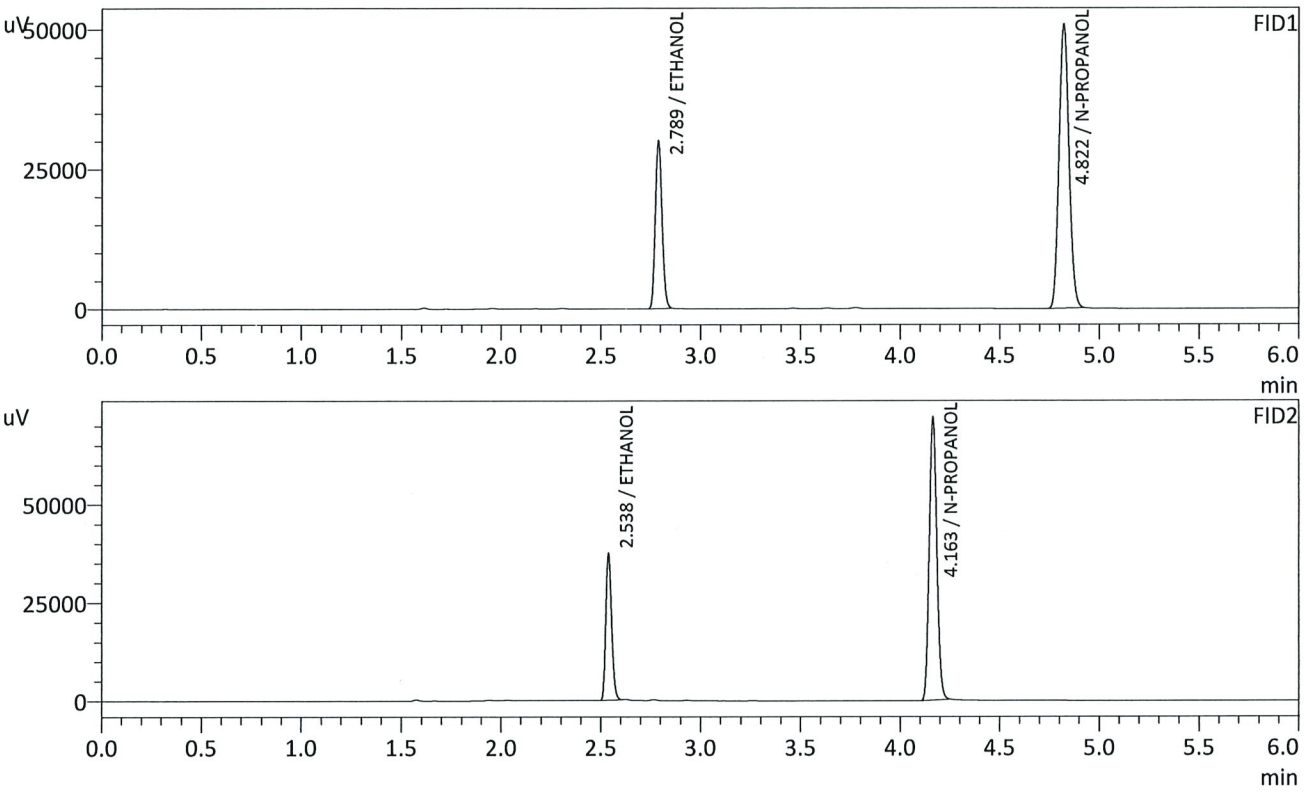

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2038	g/100cc	70074	29923
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178831	50718
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2032	g/100cc	74321	37175
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	190599	71464
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : INT STD BLK 3
Vial # : 14
Data Filename : INT STD BLK 3_4202022_014.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 4-20-22 BATCH.gcb
Date Acquired : 4/20/2022 5:42:08 PM
Date Processed : 4/21/2022 8:09:50 AM
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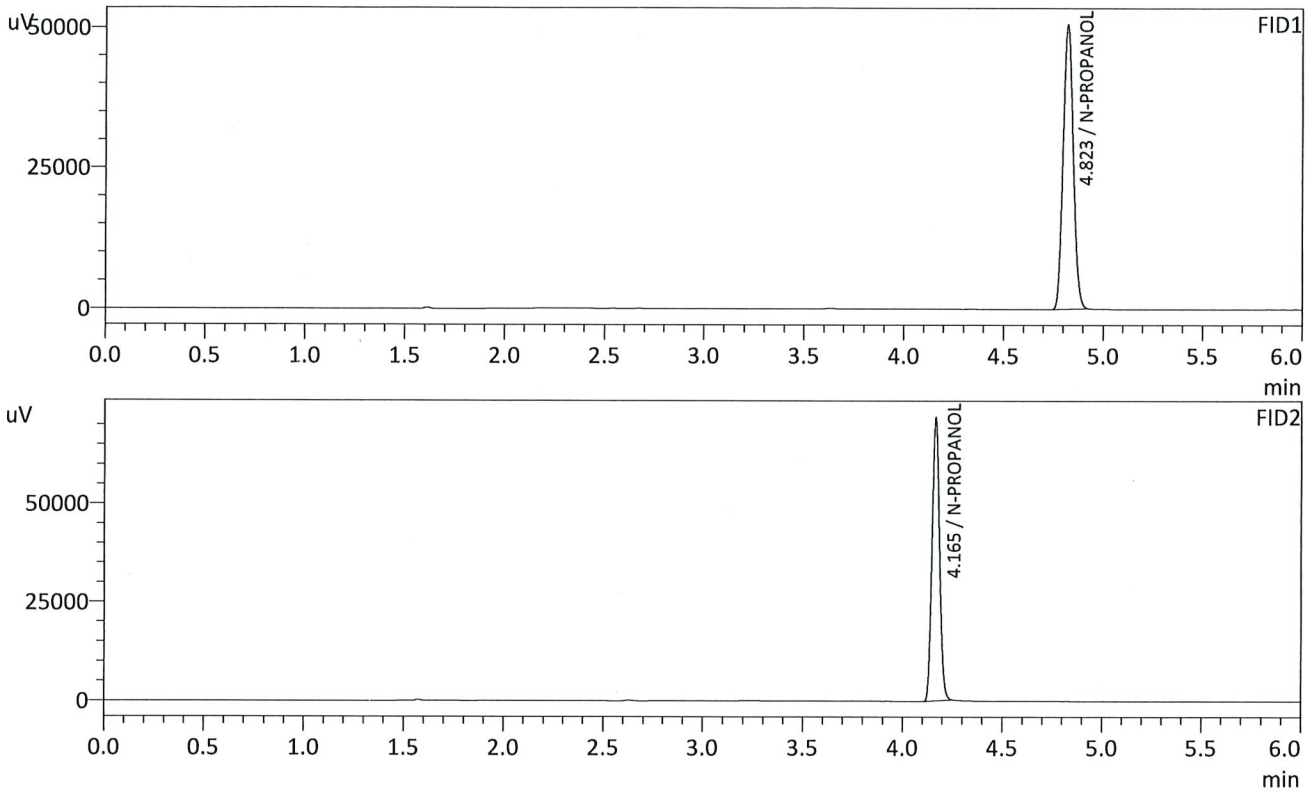

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	177945	50532
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	189972	71791
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662
Shimadzu HS-20 Serial Number: C12595700014
LabSolutions Version 5.98

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	INT STD BLK 1	0:Unknown	ALCOHOL.gcm		0
2	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_1292021_001.gcd	1
3	INT STD BLK 2	0:Unknown	ALCOHOL.gcm		0
4	QC-1-1-A	0:Unknown	ALCOHOL.gcm		0
5	QC-1-1-B	0:Unknown	ALCOHOL.gcm		0
6	0.08 QA - A	0:Unknown	ALCOHOL.gcm		0
7	0.08 QA - B	0:Unknown	ALCOHOL.gcm		0
8	P2022-0795-1-A	0:Unknown	ALCOHOL.gcm		0
9	P2022-0795-1-B	0:Unknown	ALCOHOL.gcm		0
10	P2022-1159-1-A	0:Unknown	ALCOHOL.gcm		0
11	P2022-1159-1-B	0:Unknown	ALCOHOL.gcm		0
12	QC-2-1-A	0:Unknown	ALCOHOL.gcm		0
13	QC-2-1-B	0:Unknown	ALCOHOL.gcm		0
14	INT STD BLK 3	0:Unknown	ALCOHOL.gcm		0

RC

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

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 Fortuna Date: 1/21/22
Title: Discipline Lead

Quality Review

Quality Approver:
Title:
Date: