# Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: MD96BC1382

Volatiles Quality Assurance Controls Run Date(s): 2/8/19

	Γ	Τ					-	Г
	Multi-Compo		Level 2			Level 1		Control level
Multi-Component mixture:  Curve Fit:			Mar-22			Jan-22		Expiration
			1803028			1801036		Lot#
Column 1			0.2035			0.0812		Target Value
0.99993	Lot#		)35			312		Value
993 Column2	11918		0.1832-0.2238			0.0731-0.0893		Acceptable Range
ın2 0.99990		g/100cc		0.1945 g/100cc	g/100cc	0.0778 g/100cc	0.0775 g/100cc	ige   Overall Results

Г	Т	Т	Т	Т	Т		Г
500	400	300	200	100	50	Calibrator level	Ethanol Ca
0.500	0.400	0.300	0.200	0.100	0.050	Target Value	Ethanol Calibration Reference Material
0.450 - 0.550	0.360 - 0.440	0.270 - 0.330	0.180 - 0.220	0.090 - 0.110	0.045 - 0.055	Acceptable Range	
0.5043		0.2970	0.1960	0.0965	0.0480	Column 1	
0.5047		0.2967	0.1957	0.0960	0.0473	Column 2	
0.0004	0	0.0003	0.0003	0.0005	0.0007	Column 2 Precision	
0.5045	#DIV/0!	0.2968	0.1958	0.0962	0.0476	Mean	

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

Revision: 1

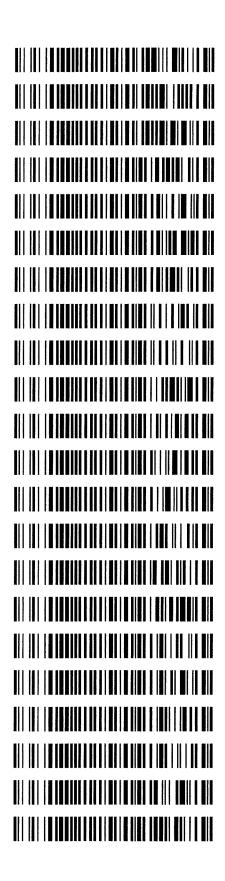
Issue Date: 01/03/2019

Amended one page and re-scanned on 5-14-20 PC reviewed 5-15-20 reviewed 5-15-20 Jewy John

BLALC Volatiles QA\_QC Data Spreadsheet-v5.xls

W	n	rkl	ist:	29	37

LAB CASE	<u>ITEM</u>	TASK ID	DESCRIPTION
P2019-0152	1	136751	Alcohol Analysis
P2019-0172	1	137060	Alcohol Analysis
P2019-0177	1	137075	Alcohol Analysis
P2019-0197	1	137187	Alcohol Analysis
P2019-0240	1	137548	Alcohol Analysis
P2019-0241	1	137553	Alcohol Analysis
P2019-0250	1	137585	Alcohol Analysis
P2019-0285	1	137843	Alcohol Analysis
P2019-0286	1	137847	Alcohol Analysis
P2019-0301	1	138025	Alcohol Analysis
P2019-0312	1	138107	Alcohol Analysis
P2019-0331	1	138327	Alcohol Analysis
P2019-0354	1	138518	Alcohol Analysis
P2019-0381	1	138726	Alcohol Analysis
P2019-0398	1	138849	Alcohol Analysis
P2019-0400	1	138910	Alcohol Analysis
P2019-0425	1	139103	Alcohol Analysis
P2019-0426	1	139104	Alcohol Analysis
P2019-0427	1	139105	Alcohol Analysis
P2019-0428	1	139106	Alcohol Analysis
P2019-0456	1	139255	Alcohol Analysis
P2019-0470	1	139301	Alcohol Analysis





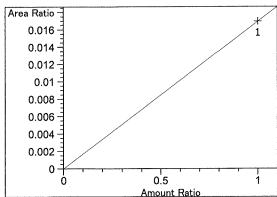
		libration
· · · · · · · · · · · · · · · · · · ·	 General	Calibration Setting
Calib. Data Modified	:	Friday, February 08, 2019 1:32:48 PM
Signals calculated sep	paratel	y: No
Rel. Reference Window	:	0.000 %
Abs. Reference Window		0.100 min
Rel. Non-ref. Window	:	0.000 %
Abs. Non-ref. Window	:	0.100 min
Uncalibrated Peaks	:	not reported
Partial Calibration	:	No recalibration if peaks missing
Curve Type	:	Linear
Origin	:	Forced
Weight	:	Equal
Recalibration Settings	s:	
2 2	:	
Average Retention Time	e:	Floating Average New 75%
	ibratio able af after	
If the sequence is Results of fin		with bracketing: le (ending previous bracket)
Results of fir Default Sample ISTD In ISTD ISTD Amount Na # [g/100cc]	rst cyc nformat ame	ele (ending previous bracket) ion (if not set in sample table):
Results of find Default Sample ISTD In ISTD ISTD Amount Na # [g/100cc]	rst cyc nformat ame	le (ending previous bracket) ion (if not set in sample table):
Results of fin Default Sample ISTD In ISTD ISTD Amount No # [g/100cc]	rst cyc nformat ame Propano	le (ending previous bracket) ion (if not set in sample table):
Results of fin  Default Sample ISTD In  ISTD ISTD Amount No.  # [g/100cc]	rst cyc nformat ame  Propano Propano	le (ending previous bracket) ion (if not set in sample table):
Results of fin	rst cyc nformat ame Propano Propano S	ion (if not set in sample table):
Results of fin Default Sample ISTD In ISTD ISTD Amount Na # [g/100cc]	rst cyc nformat ame Propano Propano S	ion (if not set in sample table):   1 1 ignal Details
Results of fin	rst cyc nformat ame Propano Propano S nt Sign	ion (if not set in sample table):   l  l  signal Details
Results of find the state of th	rst cyc nformat ame Propano Propano S nt Signa	ion (if not set in sample table):

RT Sig	Lv]	Amount [g/100cc]	Area	Rsp.Factor	Ref :	ISTD	#	Compound
		[9/10000]		1		I	<b>I</b> –	
2.095 1	1			5.43168e-1				Fluorinated Ethan
2.230 2	1	1.00000		1.54991e-1				Fluorinated Ethan
2.685 1	1	1.00000		2.70512e-1				Methanol
2.950 2	1	1.00000		8.66026e-2				Acetaldehyde
2.975 1	1	1.00000		9.50209e-2				Acetaldehyde
3.317 1		5.00000e-2		4.55775e-3				Ethanol
3.317 1		1.00000e-1		4.49782e-3		110	_	
		2.00000e-1		4.48654e-3				
		3.00000e-1		4.50280e-3				
		5.00000e-1		4.22305e-3				
3.372 2	1	1.00000		2.34707e-1		No	2	Methanol
	1	1.00000		1.02769e-1				Isopropyl alcohol
3.993 1				4.73036e-3				Ethanol
4.333 2		5.00000e-2 1.00000e-1		4.56766e-3		140	۷.	Dellation
				4.50760e-3				
		2.00000e-1		4.51692e-3				
		3.00000e-1		4.31092e-3 4.24171e-3				
4 704 0		5.00000e-1		1.45075e-1		Mo	2	Acetone
4.704 2	1	1.00000						Acetone
4.853 1	1	1.00000		1.53860e-1				Isopropyl alcohol
5.050 2	1	1.00000		9.34019e-2				
5.259 1	1	1.00000		9.20618e-3		res	1	n-Propanol
	2	1.00000		9.13079e-3				
	3	1.00000		9.24714e-3				
	4	1.00000		9.37417e-3				
	5	1.00000		8.95625e-3				
	6	1.00000		8.97193e-3		37 -	2	Dibad Assets
7.659 2	1	1.00000		1.67029e-1				Ethyl Acetate
7.786 2	1	1.00000		8.82933e-3		res	Z	n-Propanol
	2	1.00000		8.65404e-3				
	3	1.00000		8.69732e-3				
	4	1.00000		8.81594e-3				
	5	1.00000		8.44911e-3				
	6	1.00000		8.81021e-3			_	
8.420 1	1	1.00000		1.79695e-1				Ethyl Acetate
		1.00000		1.15628e-3				
12.229 1	1 	1.00000	918.48389	1.08875e-3	3 No	No 	1	'l'oluene 
			Peak Su					
tti. Data		s in table**	+					

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#### Calibration Curves

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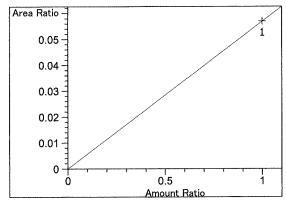


Fluorinated Ethane at exp. RT: 2.095 FID1 A, Front Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx

1.69490e-2 m: x: Amount Ratio y: Area Ratio



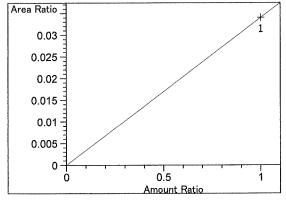
Fluorinated Ethane at exp. RT: 2.230

FID2 B, Back Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx

5.69668e-2 m: x: Amount Ratio y: Area Ratio



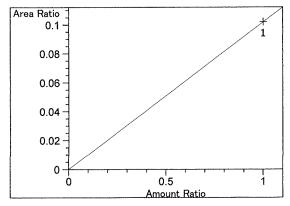
Methanol at exp. RT: 2.685

FID1 A, Front Signal

Correlation: 1.00000 0.00000 Residual Std. Dev.:

Formula: y = mx

3.40324e-2 x: Amount Ratio y: Area Ratio



Acetaldehyde at exp. RT: 2.950

FID2 B, Back Signal

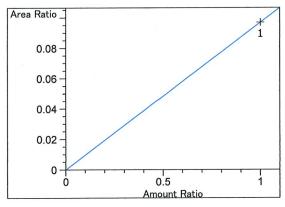
1.00000 Correlation: Residual Std. Dev.: 0.00000

Formula: y = mx

m: 1.01952e-1

x: Amount Ratio

y: Area Ratio



Acetaldehyde at exp. RT: 2.975

FID1 A, Front Signal

Correlation: 1.00000

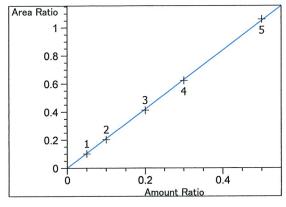
Residual Std. Dev.: 0.00000

Formula: y = mx

m: 9.68858e-2

x: Amount Ratio

y: Area Ratio



Ethanol at exp. RT: 3.317

FID1 A, Front Signal

Correlation:

Residual Std. Dev.: 0.00807

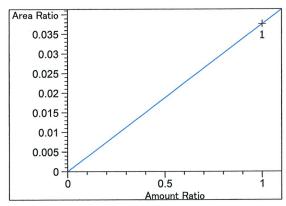
0.99993

Formula: y = mx

m: 2.10283

x: Amount Ratio

y: Area Ratio



Methanol at exp. RT: 3.372

FID2 B, Back Signal

Correlation: 1.00000

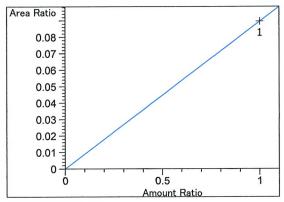
Residual Std. Dev.: 0.00000

Formula: y = mx

m: 3.76184e-2

x: Amount Ratio

y: Area Ratio



Isopropyl alcohol at exp. RT: 3.993

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

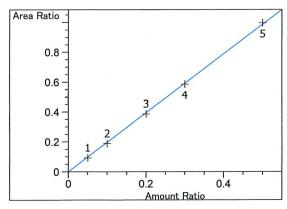
Formula: y = mx

m: 8.95812e-2

x: Amount Ratio

y: Area Ratio

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Ethanol at exp. RT: 4.333 FID2 B, Back Signal

Correlation:

0.99990

0.00853

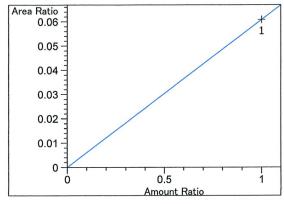
Formula: y = mx

Residual Std. Dev.:

1.97320 m:

x: Amount Ratio

y: Area Ratio



Acetone at exp. RT: 4.704

FID2 B, Back Signal

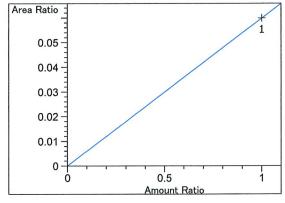
Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx

m: 6.08606e-2

x: Amount Ratio

y: Area Ratio



Acetone at exp. RT: 4.853

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

Formula: y = mx

5.98346e-2 m:

x: Amount Ratio

y: Area Ratio

Area Ratio -0.08 0.06 0.04 0.02 0 0.5 Amount Ratio

Isopropyl alcohol at exp. RT: 5.050

FID2 B, Back Signal

Correlation: 1.00000

0.00000 Residual Std. Dev.:

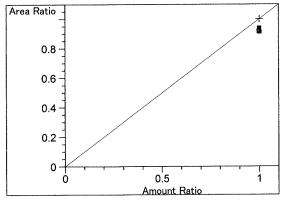
Formula: y = mx

9.45304e-2 m:

x: Amount Ratio

y: Area Ratio

Page



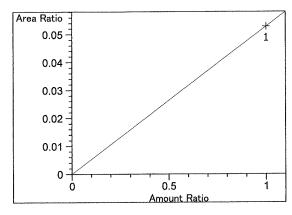
n-Propanol at exp. RT: 5.259 FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

Formula: y = mx

1.00000 m: x: Amount Ratio y: Area Ratio



Ethyl Acetate at exp. RT: 7.659 FID2 B, Back Signal

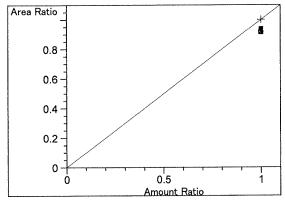
1.00000 Correlation:

Residual Std. Dev.: 0.00000

Formula: y = mx

5.28612e-2 m: x: Amount Ratio

y: Area Ratio



n-Propanol at exp. RT: 7.786

FID2 B, Back Signal

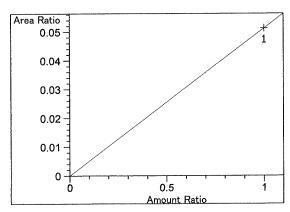
Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx

1.00000

x: Amount Ratio

y: Area Ratio



Ethyl Acetate at exp. RT: 8.420

FID1 A, Front Signal

Correlation: 1.00000

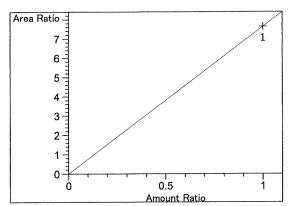
0.00000 Residual Std. Dev.:

Formula: y = mx

5.12324e-2 m:

x: Amount Ratio

y: Area Ratio

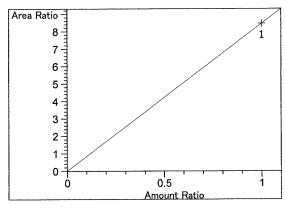


Toluene at exp. RT: 11.631 FID2 B, Back Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx

m: 7.63598
x: Amount Ratio
y: Area Ratio



Toluene at exp. RT: 12.229 FID1 A, Front Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

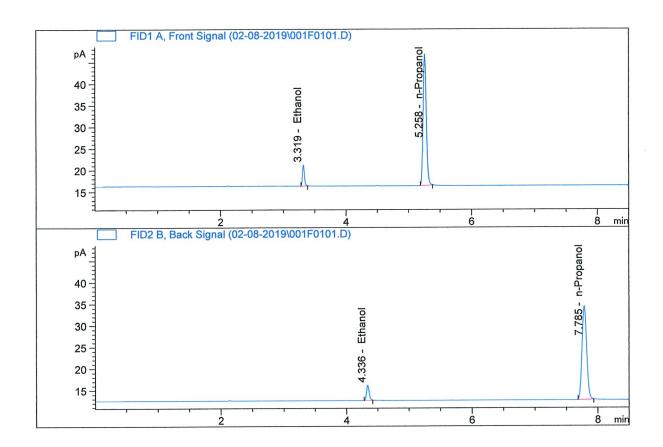
Formula: y = mx

m: 8.45572 x: Amount Ratio y: Area Ratio

AC 7 16 7

Sample Name : 0.05

Laboratory : Pocatello Injection Date : Feb 8, 2019 Method : ALCOHOL.M

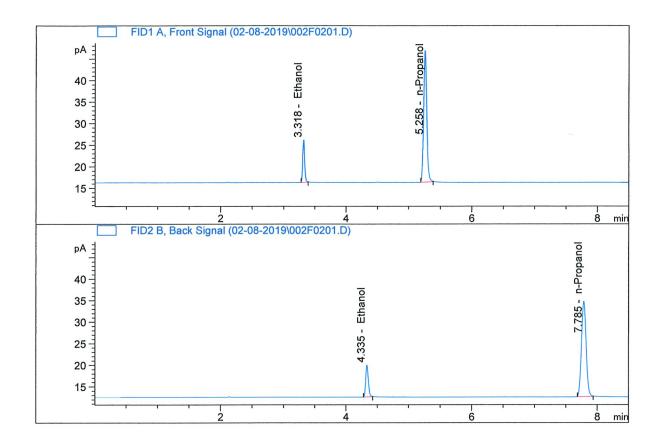


#	Compound	Column		Area	Amount	Units
		G-1	1.	10.97032	0.0480	g/100cc
Ι.	Ethanol	Column	⊥:	10.97032	0.0460	J.
2.	Ethanol	Column :	2:	10.57002	0.0473	g/100cc
3.	n-Propanol	Column	1:	108.62274	1.0000	g/100cc
4.	n-Propanol	Column	2:	113.25892	1.0000	g/100cc



Sample Name : 0.10

Laboratory : Pocatello Injection Date : Feb 8, 2019 Method : ALCOHOL.M

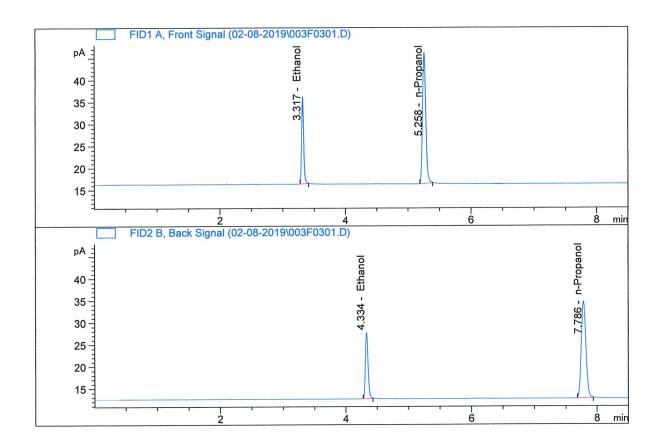


#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	22.23300	0.0965	g/100cc
2.	Ethanol	Column	2:	21.89304	0.0960	g/100cc
3.	n-Propanol	Column	1:	109.51950	1.0000	g/100cc
4.	n-Propanol	Column	2:	115.55296	1.0000	g/100cc



Sample Name : 0.20

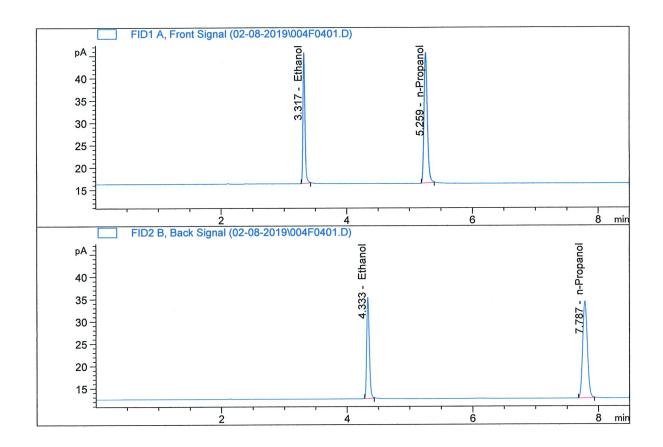
Laboratory : Pocatello Injection Date : Feb 8, 2019 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
2.	Ethanol Ethanol n-Propanol n-Propanol	Column Column Column Column	2: 1:	44.57773 44.39997 108.14158 114.97791	0.1960 0.1957 1.0000 1.0000	g/100cc g/100cc g/100cc g/100cc



Sample Name : 0.300
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M

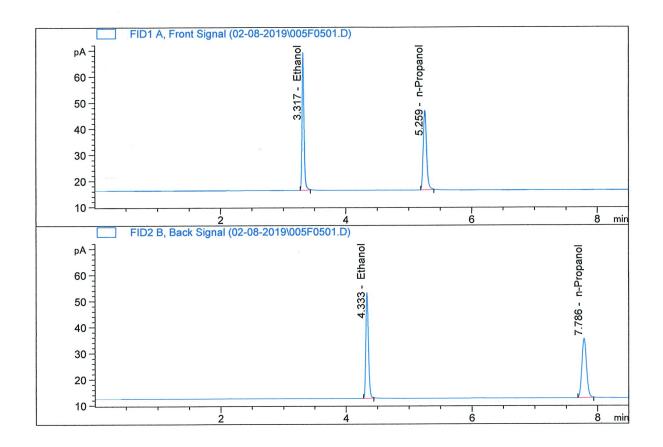


#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	66.62518	0.2970	g/100cc
2.	Ethanol	Column	2:	66.41692	0.2967	g/100cc
3.	n-Propanol	Column	1:	106.67615	1.0000	g/100cc
4.	n-Propanol	Column	2:	113.43089	1.0000	g/100cc



Sample Name : 0.50

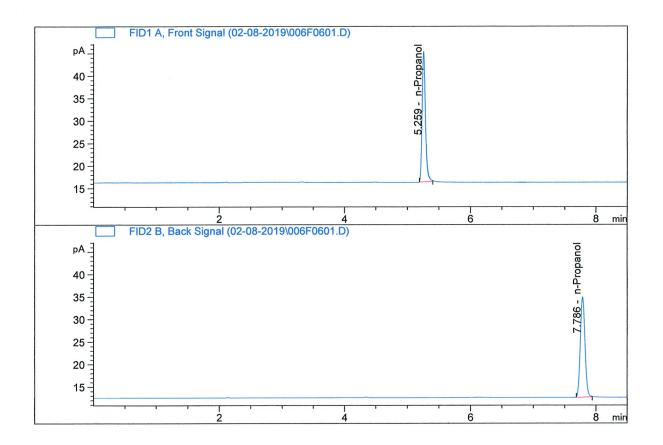
Laboratory : Pocatello Injection Date : Feb 8, 2019 Method : ALCOHOL.M



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	118.39776	0.5043	g/100cc
2.	Ethanol	Column 2:	117.87690	0.5047	g/100cc
3.	n-Propanol	Column 1:	111.65382	1.0000	g/100cc
4.	n-Propanol	Column 2:	118.35568	1.0000	g/100cc



ISTD BLANK-1 Sample Name : Laboratory Pocatello Injection Date: Feb 8, 2019
Method: ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	107.15090	1.0000	g/100cc
4.	n-Propanol	Column	2:	116.37003	1.0000	g/100cc



Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS\_08.02.2019\_10.45.46\MASTERCAL.S

Data directory path: C:\Chem32\1\Data\02-08-2019

Logbook: C:\Chem32\1\Data\02-08-2019\MASTERCAL.LOG

Sequence start: 2/8/2019 10:59:32 AM

Sequence Operator: SYSTEM Operator: SYSTEM

Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	-	File name	Cal	# Cmp
1	1	1	0.05	-	1.0000	001F0101.D	*	4
2	2	1	0.10	_	1.0000	002F0201.D	*	4
3	3	1	0.20		1.0000	003F0301.D	*	4
4	4	1	0.300	-	1.0000	004F0401.D	*	4
5	5	1	0.50	_	1.0000	005F0501.D	*	4
6	6	1	ISTD BLANK-1		1.0000	006F0601.D		2

Reprinted from 14-20
Reprinted on 5-14-20
Instrument of Scovered in Justin When the placed in Justin When the placed in Justin 200 plac Sample Name INTERNAL STD BLK Laboratory Pocatello Injection Date: Feb 8, 2019 Method ALCOHOL.M Acq. Instrument: CN10742043-IT00741010 FID1 A, Front Signal (02-08-2019 SAMPLES\001F0101.D) We have since replaced columns of and have new refention times so this didn't annotate the peaks when the reprinted. Retention time is correct for n-propanol at the time

2 B, Back Signal (02-08-2019\_SAMPLES\001F0101.D)

Referrior time is correct for n-propanol

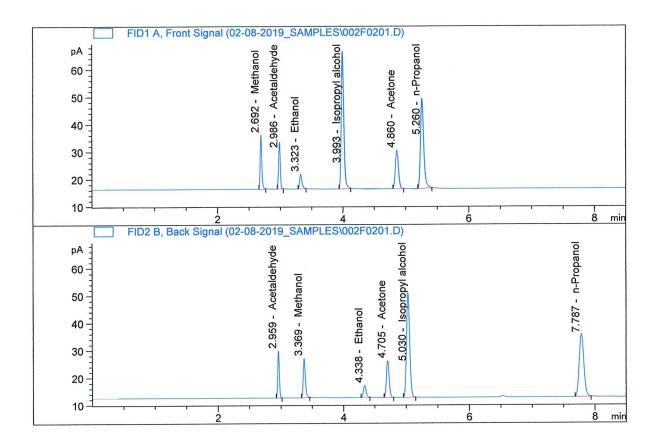
At the time this was originally ran,

At the time this was originally ran, 20 15 FID2 B, Back Signal (02-08-2019\_SAMPLES\001F0101.D) pA -40 35 30 25 20 15 6 min

#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

reviewed 5-15-20

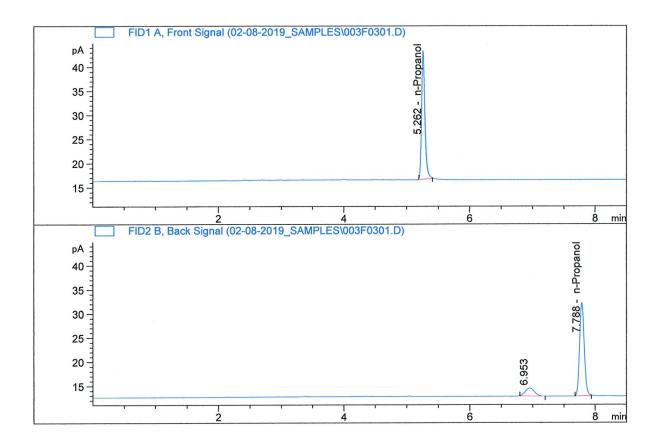
Sample Name : MULTI-COMP MIX
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M



#	Compound	Column	Area	Amount	Units 
		G 1 1	13.77183	0.0543	g/100cc
1.	Ethanol	Column 1:	13.77183	0.0343	
2.	Ethanol	Column 2:	13.24276	0.0563	g/100cc
3.	n-Propanol	Column 1:	120.62414	1.0000	g/100cc
4.	n-Propanol	Column 2:	119.29276	1.0000	g/100cc



Sample Name : INTERNAL STD
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	99.16869	1.0000	g/100cc
4.	n-Propanol	Column	2:	101.01508	1.0000	g/100cc



# **VOLATILES DETERMINATION CASEFILE WORKSHEET**

**Laboratory No.: QC1-1** 

Analysis Date(s): 08 Feb 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0771	0.0781	0.0010	0.0776	0.0775	
(g/100cc)	0.0771	0.0780	0.0009	0.0775	0.0773	

# **Analysis Method**

Refer to Blood Alcohol Method #1

# Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m

Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results	Uncertainty of Measurement (UM%): 5.00%			
Overall Mean (g/100cc)	Low	High	5% of Mean	
0.077	0.073	0.081	0.004	

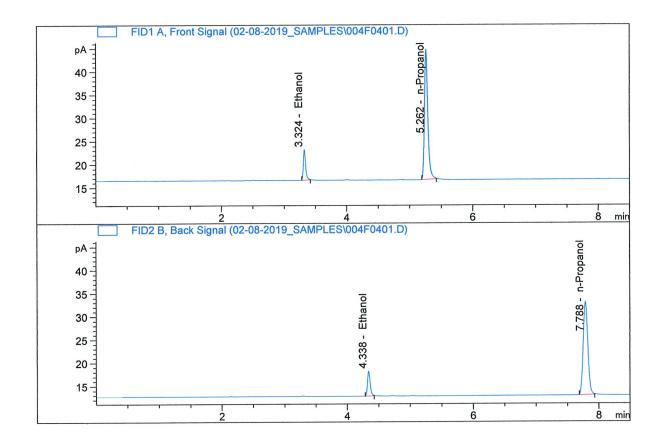
Reported Result	
0.077	

Calibration and control data are stored centrally.

Revision: 1

Issue Date: 01/04/2019
Issuing Authority: Quality Manager

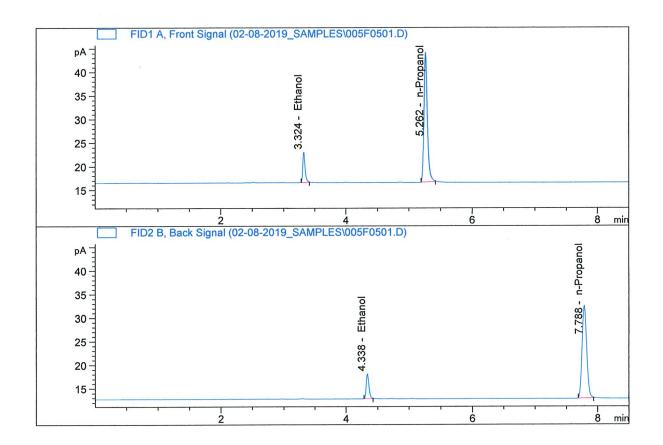
Sample Name : QC1-1-A
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
						/1.00
1.	Ethanol	Column 1	l:	16.89566	0.0771	g/100cc
2.	Ethanol	Column 2	2:	16.15577	0.0781	g/100cc
3.	n-Propanol	Column 1	l:	104.21379	1.0000	g/100cc
4.	n-Propanol	Column 2	2:	104.81696	1.0000	g/100cc



Sample Name : QC1-1-B
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	16.55256	0.0771	g/100cc
2.	Ethanol	Column	2:	15.78520	0.0780	g/100cc
3.	n-Propanol	Column	1:	102.15370	1.0000	g/100cc
4.	n-Propanol	Column	2:	102.56573	1.0000	g/100cc



# **VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: 08 QA

Analysis Date(s): 08 Feb 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0779	0.0793	0.0014	0.0786	0.0790	
(g/100cc)	0.0788	0.0801	0.0013	0.0794	0.0790	

# **Analysis Method**

Refer to Blood Alcohol Method #1

# Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m

Hamilton Auto-Dilutor Serial Number: ML600HC11379

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	

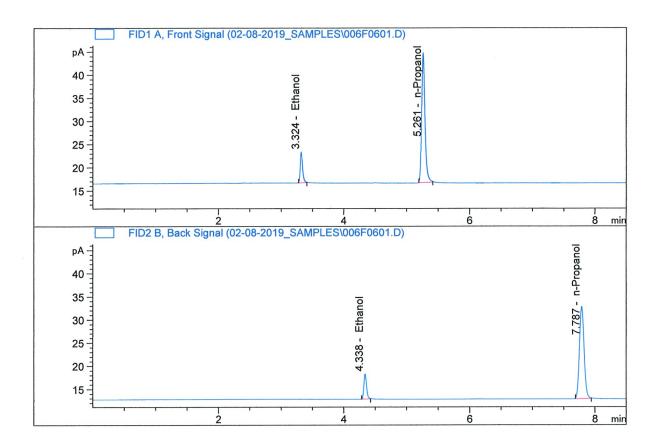
Calibration and control data are stored centrally.

Revision: 1

Issue Date: 01/04/2019

Issuing Authority: Quality Manager

Sample Name : 08 QA-A
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M

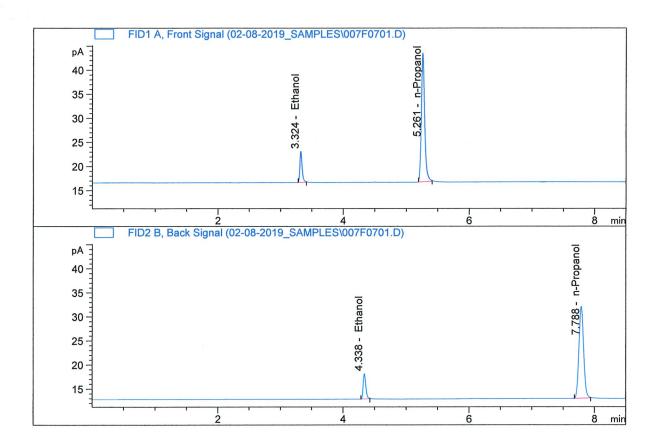


#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	17.03203	0.0779	g/100cc
2.	Ethanol	Column	2:	16.29675	0.0793	g/100cc
3.	n-Propanol	Column	1:	103.95330	1.0000	g/100cc
4.	n-Propanol	Column	2:	104.12936	1.0000	g/100cc



Sample Name : 08 QA-B
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M

Method: ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	16.48920	0.0788	g/100cc
	Ethanol	Column		15.75234	0.0801	g/100cc
3.	n-Propanol	Column	1:	99.56331	1.0000	g/100cc
4.	n-Propanol	Column	2:	99.70049	1.0000	g/100cc



# **VOLATILES DETERMINATION CASEFILE WORKSHEET**

**Laboratory No.: QC2-1** 

Analysis Date(s): 08 Feb 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1902	0.1987	0.0085	0.1944	0.1945	
(g/100cc)	0.1907	0.1986	0.0079	0.1946	0.1943	

# **Analysis Method**

Refer to Blood Alcohol Method #1

# **Instrument Information**

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m

Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results	ent (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5% of Mean
0.194	0.184	0.204	0.010
	Reported Res	ult	
	0.194		

Calibration and control data are stored centrally.

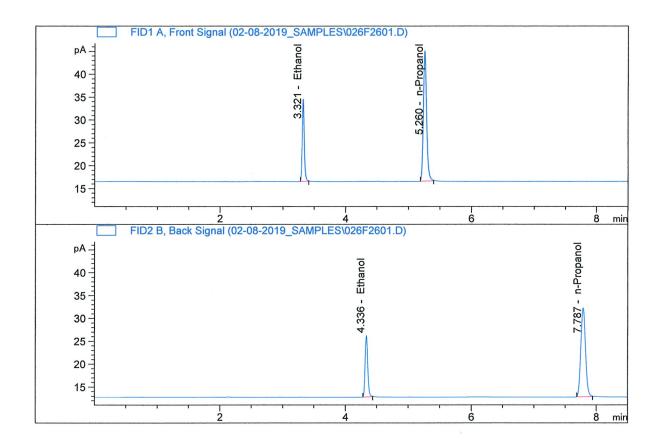
Revision: 1

Issue Date: 01/04/2019

Issuing Authority: Quality Manager

Sample Name QC2-1-A : Laboratory Pocatello : Injection Date: Feb 8, 2019 ALCOHOL.M CN10742043 Method :

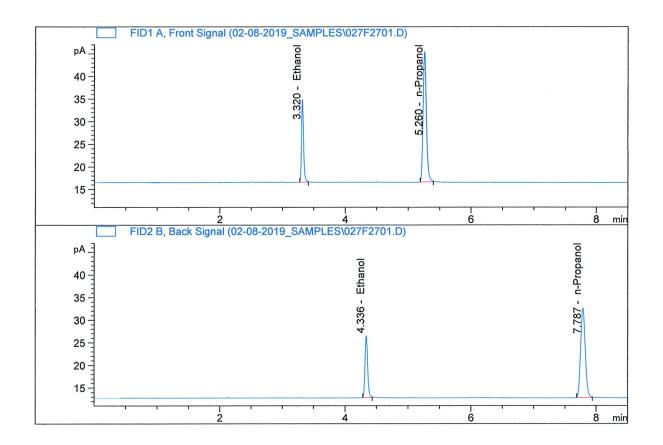
CN10742043-IT00741010 Acq. Instrument:



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	41.50316	0.1902	g/100cc
2.	Ethanol	Column	2:	39.86021	0.1987	g/100cc
3.	n-Propanol	Column	1:	103.75827	1.0000	g/100cc
4.	n-Propanol	Column	2:	101.66405	1.0000	g/100cc



Sample Name : QC2-1-B
Laboratory : Pocatello
Injection Date : Feb 8, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	42.18000	0.1907	g/100cc
2.	Ethanol	Column	2:	40.42786	0.1986	g/100cc
3.	n-Propanol	Column	1:	105.16284	1.0000	g/100cc
4.	n-Propanol	Column	2:	103.18146	1.0000	g/100cc



# **VOLATILES DETERMINATION CASEFILE WORKSHEET**

**Laboratory No.: QC1-2** 

Analysis Date(s): 09 Feb 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0774	0.0790	0.0016	0.0782	0.0779	
(g/100cc)	0.0768	0.0783	0.0015	0.0775	0.0778	

# **Analysis Method**

Refer to Blood Alcohol Method #1

# Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m

Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results	ty of Measurem	ment (UM%): 5.00%		
Overall Mean (g/100cc)	Low	High	5% of Mean	
0.077	0.073	0.081	0.004	
	Reported Res	ult		

0.077

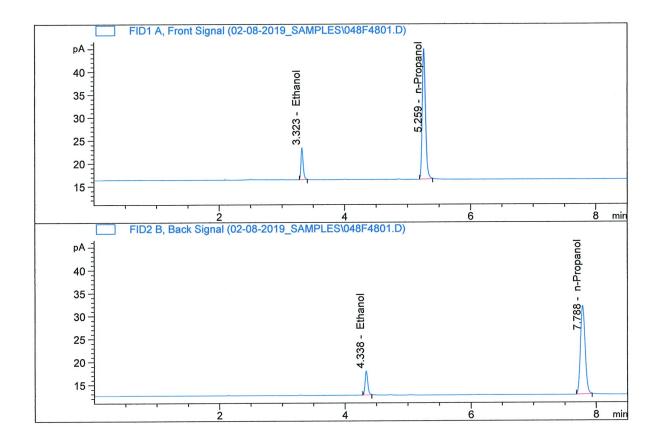
Calibration and control data are stored centrally.

Revision: 1

Issue Date: 01/04/2019

Issuing Authority: Quality Manager

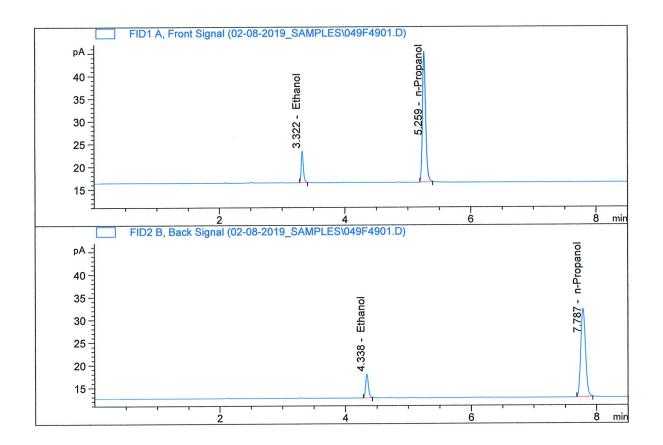
Sample Name : QC1-2-A
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.76170	0.0774	g/100cc
2.	Ethanol	Column 2:	15.75130	0.0790	g/100cc
3.	n-Propanol	Column 1:	102.98560	1.0000	g/100cc
	n-Propanol	Column 2:	101.02903	1.0000	g/100cc



Sample Name : QC1-2-B
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	16.77826	0.0768	g/100cc
2	Ethanol	Column	2.	15.79340	0.0783	g/100cc
۷.	Ethanor	COLUMIII	2.	13.73340		_
3.	n-Propanol	Column	1:	103.90678	1.0000	g/100cc
4.	n-Propanol	Column	2:	102.15692	1.0000	g/100cc



# **VOLATILES DETERMINATION CASEFILE WORKSHEET**

**Laboratory No.: QC2-2** 

Analysis Date(s): 09 Feb 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1948	0.2027	0.0079	0.1987	0.1096	
(g/100cc)	0.1946	0.2025	0.0079	0.1985	0.1986	

# **Analysis Method**

Refer to Blood Alcohol Method #1

# **Instrument Information**

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m

Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results	Uncertainty of Measurement (UM%): 5.00%			
Overall Mean (g/100cc)	Low	High	5% of Mean	
0.198	0.188	0.208	0.010	
Re				

0.198

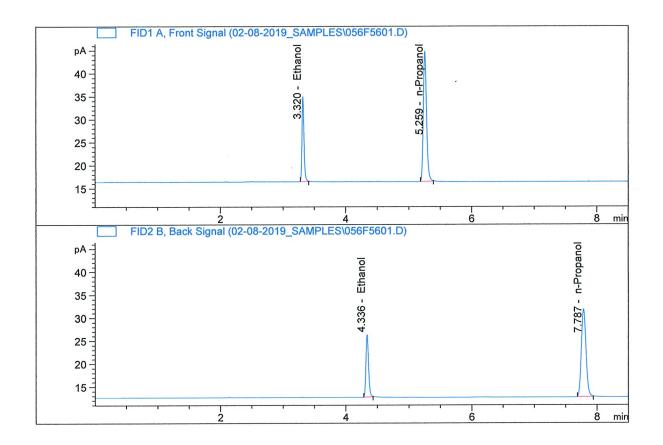
Calibration and control data are stored centrally.

Revision: 1

Issue Date: 01/04/2019

Issuing Authority: Quality Manager

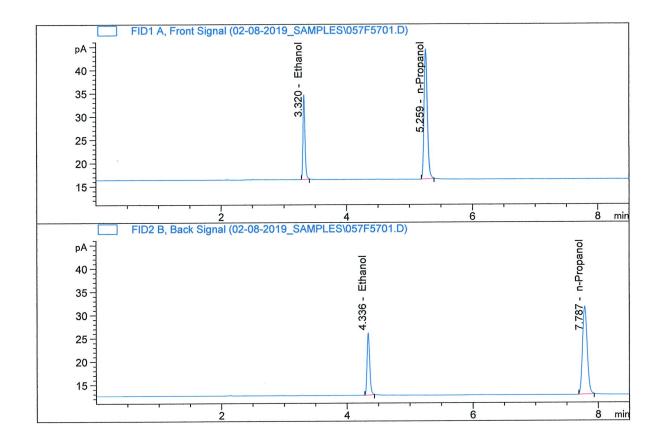
Sample Name : QC2-2-A
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	42.02620	0.1948	g/100cc
	Ethanol	Column	-	40.06878	0.2027	g/100cc
3.	n-Propanol	Column	1:	102.57835	1.0000	g/100cc
4.	n-Propanol	Column	2:	100.19043	1.0000	g/100cc



Sample Name : QC2-2-B
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M

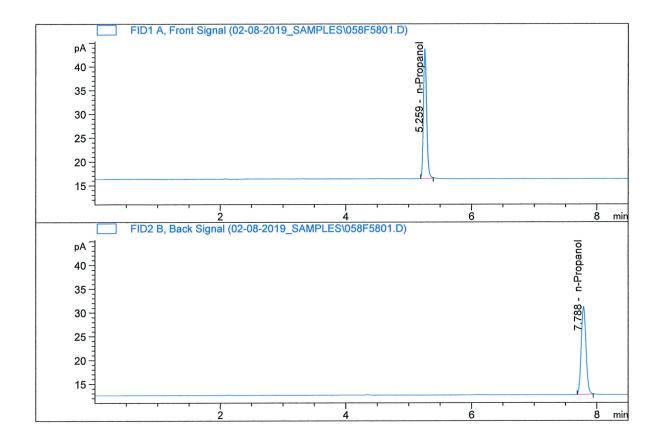


#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	41.38476	0.1946	g/100cc
_ ,	Ethanol	Column		39.50269	0.2025	g/100cc
3.	n-Propanol	Column	1:	101.13609	1.0000	g/100cc
4.	n-Propanol	Column	2:	98.86519	1.0000	g/100cc



Sample Name : INT STD BLK
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M

Method: ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010

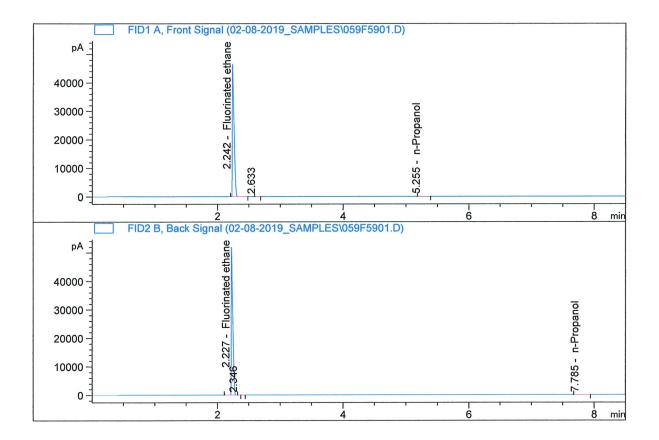


#	Compound	Column		Area	Amount	Units
1	U+b1	C-1	1.	0.00000	0.0000	g/100cc
Ι.	Ethanol	Column	Τ:	0.00000	0.0000	9/10000
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	98.50938	1.0000	g/100cc
4.	n-Propanol	Column	2:	97.15221	1.0000	g/100cc



Sample Name : TFE

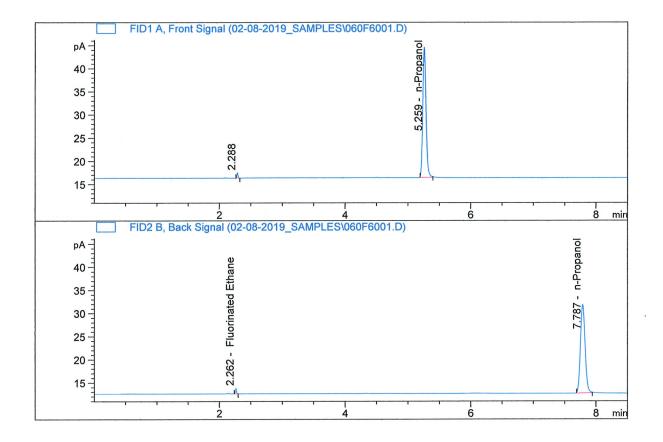
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M



#	Compound	Column	Area	Amount	Units
1	пьь 1	G-1 1.	0 00000	0 0000	~/100aa
⊥ .	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	139.64008	1.0000	g/100cc
4.	n-Propanol	Column 2:	137.09386	1.0000	g/100cc



Sample Name : INT STD BLK
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M

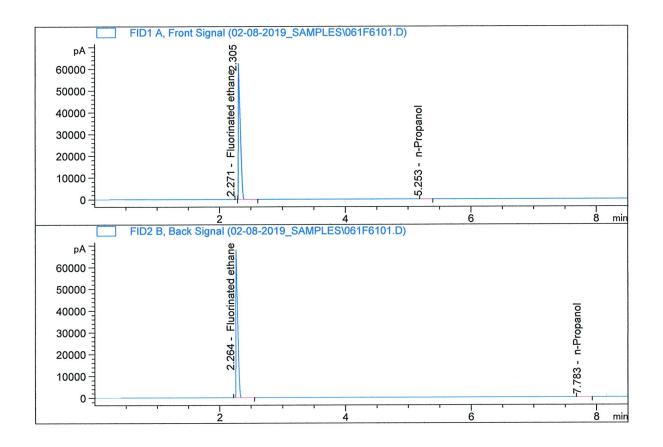


#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	101.53724	1.0000	g/100cc
4.	n-Propanol	Column	2:	100.15699	1.0000	g/100cc



Sample Name : DFE

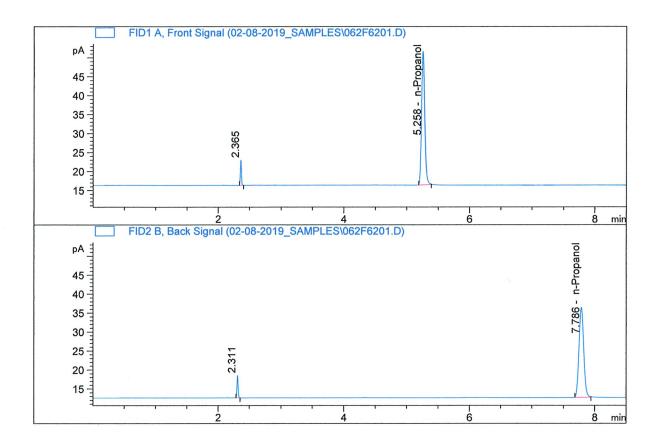
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1	Ethanol	Column	1 •	0.00000	0.0000	g/100cc
		-				
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	134.29338	1.0000	g/100cc
4.	n-Propanol	Column	2:	130.52119	1.0000	g/100cc



Sample Name : INT STD BLK
Laboratory : Pocatello
Injection Date : Feb 9, 2019
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	126.14856	1.0000	g/100cc
4.	n-Propanol	Column	2:	123.88699	1.0000	g/100cc



#### Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS\_08.02.2019\_05.21.51\RC08FEB2019.S

Data directory path: C:\Chem32\1\Data\02-08-2019\_SAMPLES

Logbook: C:\Chem32\1\Data\02-08-2019 SAMPLES\RC08FEB2019.LOG

Sequence start: 2/8/2019 5:35:46 PM

Sequence Operator: SYSTEM Operator: SYSTEM

Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

#	Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
2 2 1 MOLTI-COMP MIX - 1.0000 002F0201.D 12 3 3 1 INTERNAL STD - 1.0000 003F0301.D 2 4 4 1 0C1-1-A - 1.0000 003F0301.D 4 5 5 1 0C1-1-B - 1.0000 005F0501.D 4 6 6 6 10 8 0A-A - 1.0000 005F0501.D 4 7 7 10 8 0A-B - 1.0000 007F0701.D 4 8 8 1 F2019-0152-1-A - 1.0000 007F0701.D 6 10 10 1 F2019-0152-1-B - 1.0000 009F0901.D 6 10 10 1 F2019-0172-1-A - 1.0000 01F1001.D 6 11 11 1 F2019-0177-1-B - 1.0000 01F1001.D 6 12 12 1 F2019-0177-1-B - 1.0000 01F1001.D 6 13 13 1 F2019-0177-1-B - 1.0000 01F1001.D 6 15 15 1 F2019-0197-1-B - 1.0000 01F1001.D 6 16 16 1 F2019-0197-1-B - 1.0000 01F1001.D 6 17 17 1 F2019-0240-1-B - 1.0000 015F1501.D 6 18 18 1 F2019-0241-1-A - 1.0000 015F1501.D 6 19 19 1 F2019-0241-1-B - 1.0000 017F1701.D 6 19 19 1 F2019-0241-1-B - 1.0000 018F1801.D 6 12 12 1 F2019-0245-1-B - 1.0000 018F1801.D 6 12 12 1 F2019-0285-1-B - 1.0000 02F2001.D 6 12 12 1 F2019-0285-1-B - 1.0000 02F201.D 6 12 12 1 F2019-0285-1-B - 1.0000 02F201.D 6 15 15 1 F2019-0285-1-B - 1.0000 02F201.D 6 16 16 16 10 C2-1-B - 1.0000 02F201.D 6 17 17 1 F2019-0285-1-B - 1.0000 02F201.D 6 18 18 1 F2019-0285-1-B - 1.0000 02F201.D 6 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	1	1	1	INTERNAL STD BLK	_	1.0000	001F0101.D	
3 3 1 INTERNAL STD - 1.0000 003F0301.D 2 4 4 4 1 QC1-1-A - 1.0000 004F0401.D 4 5 5 1 QC1-1-B - 1.0000 005F0501.D 4 6 6 6 1 08 QA-A - 1.0000 005F0501.D 4 8 8 1 P2019-0152-1-A - 1.0000 007F0701.D 4 8 8 1 P2019-0152-1-B - 1.0000 007F0701.D 6 9 9 1 P2019-0152-1-B - 1.0000 009F0901.D 6 10 10 1 P2019-0172-1-A - 1.0000 009F0901.D 6 11 11 1 P2019-0172-1-B - 1.0000 010F1101.D 6 12 12 1 P2019-0177-1-B - 1.0000 011F1101.D 6 12 12 1 P2019-0177-1-B - 1.0000 013F1301.D 2 14 14 1 P2019-0197-1-A - 1.0000 013F1301.D 2 15 15 1 P2019-0197-1-A - 1.0000 013F1501.D 6 16 16 1 P2019-0240-1-A - 1.0000 015F1501.D 6 17 17 1 P2019-0240-1-B - 1.0000 015F1501.D 6 18 18 1 P2019-0241-1-B - 1.0000 015F1501.D 6 19 19 1 P2019-0241-1-B - 1.0000 015F1501.D 6 10 10 1 P2019-0250-1-A - 1.0000 015F1501.D 6 10 22 22 1 P2019-0250-1-A - 1.0000 019F1901.D 6 12 22 2 1 P2019-0250-1-B - 1.0000 020F2001.D 6 12 22 1 P2019-0250-1-B - 1.0000 020F2001.D 6 12 22 2 1 P2019-0250-1-B - 1.0000 020F201.D 6 13 23 23 1 P2019-0285-1-A - 1.0000 020F2001.D 6 14 24 4 1 P2019-0285-1-A - 1.0000 020F2001.D 6 15 25 1 P2019-0312-1-A - 1.0000 020F2001.D 6 16 25 25 1 P2019-036-1-A - 1.0000 020F2001.D 6 17 27 1 QC2-1-B - 1.0000 020F2001.D 6 18 28 1 P2019-031-1-B - 1.0000 020F2001.D 6 19 13 11 P2019-031-1-A - 1.0000 020F2001.D 6 10 10 10 10 10 10 10 10 10 10 10 10 10 1								
4 4 1 QC1-1-A - 1.0000 004F0401.D 4 6 6 6 1 08 QA-A - 1.0000 005F0501.D 4 6 6 6 1 08 QA-A - 1.0000 005F0501.D 4 7 7 1 08 QA-B - 1.0000 005F0501.D 4 8 8 1 P2019-0152-1-A - 1.0000 005F0501.D 6 9 9 1 P2019-0152-1-B - 1.0000 005F0501.D 6 10 10 1 P2019-0152-1-B - 1.0000 009F0901.D 6 11 11 1 P2019-0172-1-B - 1.0000 010F1001.D 6 12 12 1 P2019-0177-1-A - 1.0000 010F1001.D 6 13 13 1 P2019-0177-1-B - 1.0000 012F1201.D 2 13 13 1 P2019-0177-1-B - 1.0000 012F1201.D 2 14 14 1 P2019-0197-1-B - 1.0000 013F1301.D 6 15 15 1 P2019-0197-1-B - 1.0000 013F1301.D 6 16 16 1 P2019-0240-1-B - 1.0000 015F1501.D 6 16 16 1 P2019-0240-1-B - 1.0000 015F1501.D 6 18 18 1 P2019-0241-1-A - 1.0000 015F1501.D 6 18 18 1 P2019-0241-1-A - 1.0000 015F1501.D 6 20 20 1 P2019-0250-1-A - 1.0000 015F1501.D 6 21 21 1 P2019-0250-1-B - 1.0000 019F1901.D 6 22 22 1 P2019-0250-1-B - 1.0000 019F1901.D 6 22 22 1 P2019-0250-1-B - 1.0000 020F2001.D 6 23 23 3 1 P2019-0250-1-B - 1.0000 020F2001.D 6 24 24 1 P2019-0285-1-B - 1.0000 022F2201.D 2 24 24 1 P2019-0285-1-B - 1.0000 022F2201.D 2 25 25 1 P2019-0285-1-B - 1.0000 022F2201.D 6 26 26 1 0C2-1-A - 1.0000 028F2801.D 4 27 27 1 QC2-1-B - 1.0000 028F2801.D 4 29 29 1 P2019-0301-1-B - 1.0000 028F2801.D 4 29 29 1 P2019-0312-1-B - 1.0000 028F2801.D 6 30 30 1 P2019-0312-1-B - 1.0000 038F3301.D 6 31 31 1 P2019-0312-1-B - 1.0000 038F3301.D 6 32 33 1 P2019-0312-1-B - 1.0000 038F3301.D 6 33 33 1 P2019-0312-1-B - 1.0000 038F3301.D 6 34 34 1 P2019-0312-1-B - 1.0000 038F3301.D 6 37 37 1 P2019-0381-1-A - 1.0000 038F3301.D 6 38 38 1 P2019-0381-1-A - 1.0000 038F3301.D 6 39 39 1 P2019-0381-1-B - 1.0000 038F3301.D 6 39 39 1 P2019-0381-1-B - 1.0000 038F3301.D 6 30 30 1 P2019-0381-1-B - 1.0000 038F3301.D 6 31 31 1 P2019-0381-1-B -								
5 5         1 QC1-1-B         -         1.0000 005F0501.D         4           6 6 6         1 08 QA-A         -         1.0000 005F0601.D         4           7 7         1 08 QA-B         -         1.0000 007F0701.D         4           8 8         1 P2019-0152-1-A         -         1.0000 009F0901.D         6           10 10         1 P2019-0172-1-A         -         1.0000 009F0901.D         6           11 11         1 P2019-0177-1-A         -         1.0000 010F1001.D         6           12 12         1 P2019-0177-1-A         -         1.0000 012F1201.D         2           13 13         1 P2019-0197-1-A         -         1.0000 013F1301.D         2           14 14         1 P2019-0197-1-A         -         1.0000 014F1401.D         6           15 15         1 P2019-0240-1-A         -         1.0000 014F1401.D         6           16 16         1 P2019-0240-1-A         -         1.0000 014F1401.D         6           17 7         1 P2019-0240-1-A         -         1.0000 014F1401.D         6           18 18         1 P2019-0241-1-B         -         1.0000 014F1701.D         6           19 19         1 P2019-0250-1-A         -         1.0000 0274001.D         6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
6 6 1 08 QA-A								
7 7								
8 8 1 P2019-0152-1-A								
9 9 1 P2019-0152-1-B - 1.0000 009F0901.D 6 10 10 1 P2019-0172-1-A - 1.0000 010F1001.D 6 11 11 1 P2019-0172-1-B - 1.0000 012F1201.D 6 12 12 1 P2019-0177-1-A - 1.0000 012F1201.D 2 13 13 1 P2019-0177-1-B - 1.0000 013F1301.D 2 14 14 1 P2019-0197-1-A - 1.0000 013F1301.D 6 15 15 1 P2019-0197-1-B - 1.0000 015F1501.D 6 16 16 1 P2019-0240-1-A - 1.0000 015F1501.D 6 17 17 1 P2019-0240-1-B - 1.0000 015F1501.D 6 18 18 1 P2019-0241-1-A - 1.0000 016F1601.D 6 18 18 1 P2019-0241-1-A - 1.0000 016F1601.D 6 19 19 1 P2019-0250-1-B - 1.0000 019F1901.D 6 20 20 1 P2019-0250-1-B - 1.0000 020F2001.D 6 21 21 1 P2019-0250-1-B - 1.0000 020F2001.D 6 22 22 1 P2019-0255-1-A - 1.0000 022F2201.D 2 23 23 1 P2019-0285-1-A - 1.0000 022F2201.D 2 24 24 1 P2019-0286-1-A - 1.0000 023F2301.D 2 24 24 1 P2019-0286-1-A - 1.0000 025F2501.D 6 25 25 1 P2019-0086-1-B - 1.0000 025F2501.D 6 26 26 1 0C2-1-A - 1.0000 026F2601.D 4 27 27 1 QC2-1-B - 1.0000 026F2601.D 4 28 28 1 P2019-0311-1-A - 1.0000 026F2601.D 4 29 29 1 P2019-0311-1-B - 1.0000 026F2601.D 4 29 29 1 P2019-0311-1-B - 1.0000 026F2501.D 6 30 30 1 P2019-0312-1-A - 1.0000 026F2601.D 4 31 31 1 P2019-0312-1-A - 1.0000 026F2501.D 6 30 30 1 P2019-0312-1-B - 1.0000 036F3001.D 6 31 31 1 P2019-0312-1-B - 1.0000 037F3701.D 6 33 33 1 P2019-0313-1-B - 1.0000 037F3701.D 6 34 34 1 P2019-0331-1-B - 1.0000 037F3701.D 6 35 35 1 P2019-0381-1-A - 1.0000 037F3701.D 6 36 36 1 P2019-0381-1-A - 1.0000 037F3701.D 6 37 37 1 P2019-0381-1-B - 1.0000 037F3701.D 6 38 38 1 P2019-0381-1-B - 1.0000 038F3801.D 4 39 39 1 P2019-0381-1-B - 1.0000 038F3801.D 4 40 40 1 P2019-0425-1-A - 1.0000 045F4201.D 4 42 42 1 P2019-0425-1-A - 1.0000 047F4201.D 4 42 42 1 P2019-0425-1-A - 1.0000 047F4201.D 4 44 44 1 P2019-0425-1-B - 1.0000 047F4201.D 4 45 45 1 P2019-0426-1-B - 1.0000 047F4201.D 4 45 45 1 P2019-0426-1-B - 1.0000 047F4201.D 4					_			
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13 13       1 P2019-0177-1-B       -       1.0000 013F1301.D       2         14 14       1 P2019-0197-1-A       -       1.0000 014F1401.D       6         15 15       1 P2019-0197-1-B       -       1.0000 015F1501.D       6         16 16       1 P2019-0240-1-A       -       1.0000 015F1501.D       6         17 17       1 P2019-0240-1-B       -       1.0000 017F1701.D       6         18 18       1 P2019-0241-1-A       -       1.0000 018F1801.D       4         19 19       1 P2019-0241-1-B       -       1.0000 018F1901.D       6         20 20       1 P2019-0250-1-A       -       1.0000 020F2001.D       6         21 21       1 P2019-0285-1-B       -       1.0000 022F201.D       6         22 22       1 P2019-0285-1-A       -       1.0000 022F201.D       2         23 23       1 P2019-0286-1-A       -       1.0000 022F201.D       6         25 25       1 P2019-0086-1-B       -       1.0000 024F2401.D       6         25 25       1 P2019-0301-1-A       -       1.0000 025F2601.D       4         27 27       1 QC2-1-B       -       1.0000 026F2601.D       4         29 29       1 P2019-0301-1-A       -       1.0000 03					_			
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16 16       1 P2019-0240-1-A       -       1.0000 016F1601.D       6         17 17       1 P2019-0240-1-B       -       1.0000 017F1701.D       6         18 18       1 P2019-0241-1-A       -       1.0000 018F1801.D       4         19 19       1 P2019-0250-1-B       -       1.0000 029F2001.D       6         20 20       1 P2019-0250-1-B       -       1.0000 021F2101.D       6         21 21       1 P2019-0285-1-A       -       1.0000 023F2201.D       2         22 22       1 P2019-0285-1-B       -       1.0000 023F2201.D       2         23 23       1 P2019-0286-1-A       -       1.0000 023F2201.D       2         24 24       1 P2019-0286-1-B       -       1.0000 024F2401.D       6         25 25       1 P2019-0386-1-B       -       1.0000 025F2501.D       6         26 26       1 QC2-1-B       -       1.0000 027F2701.D       4         28 28       1 P2019-0301-1-A       -       1.0000 027F2701.D       4         29 29       1 P2019-0312-1-A       -       1.0000 027F2701.D       6         30 30       1 P2019-0312-1-B       -       1.0000 038F301.D       6         32 32       1 P2019-0312-1-B       -       1.0000					_			
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18 18       1 P2019-0241-1-A       -       1.0000 018F1801.D       4         19 19       1 P2019-0241-1-B       -       1.0000 019F1901.D       6         20 20       1 P2019-0250-1-A       -       1.0000 020F2001.D       6         21 21       1 P2019-0250-1-B       -       1.0000 021F2101.D       6         22 22       1 P2019-0285-1-A       -       1.0000 022F2201.D       2         23 23       1 P2019-0286-1-B       -       1.0000 024F2401.D       6         25 25       1 P2019-0286-1-A       -       1.0000 024F2401.D       6         25 25       1 P2019-0386-1-B       -       1.0000 024F2401.D       6         26 26       1 QC2-1-A       -       1.0000 024F2401.D       6         27 27       1 QC2-1-B       -       1.0000 027F2701.D       4         28 28       1 P2019-0301-1-A       -       1.0000 028F2801.D       4         29 29       1 P2019-0312-1-B       -       1.0000 039F3001.D       6         30 30       1 P2019-0312-1-B       -       1.0000 031F3101.D       6         31 31       1 P2019-0331-1-A       -       1.0000 034F3301.D       2         34 34       1 P2019-0381-1-A       -       1.0000 035F35					_			
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20 20       1 P2019-0250-1-A       -       1.0000 020F2001.D       6         21 21       1 P2019-0250-1-B       -       1.0000 021F2101.D       6         22 22       1 P2019-0285-1-A       -       1.0000 022F2201.D       2         23 23       1 P2019-0286-1-B       -       1.0000 023F2301.D       2         24 24       1 P2019-0286-1-A       -       1.0000 024F2401.D       6         25 25       1 P2019-0386-1-B       -       1.0000 025F2501.D       6         26 26       1 QC2-1-A       -       1.0000 026F2601.D       4         27 27       1 QC2-1-B       -       1.0000 027F2701.D       4         28 28       1 P2019-0301-1-A       -       1.0000 028F2801.D       4         29 29       1 P2019-0331-1-B       -       1.0000 030F3001.D       6         30 30       1 P2019-0312-1-B       -       1.0000 031F3101.D       6         32 32       1 P2019-0331-1-A       -       1.0000 032F3201.D       2         33 33       1 P2019-0331-1-B       -       1.0000 033F3301.D       2         34 34       1 P2019-0354-1-B       -       1.0000 037F3301.D       4         35 35       1 P2019-03881-1-A       -       1.0000 037F3					_			
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22 22       1 P2019-0285-1-A       -       1.0000 022F2201.D       2         23 23       1 P2019-0285-1-B       -       1.0000 023F2301.D       2         24 24       1 P2019-0286-1-A       -       1.0000 024F2401.D       6         25 25       1 P2019-0866-1-B       -       1.0000 024F2601.D       6         26 26       1 QC2-1-B       -       1.0000 02F2601.D       4         27 27       1 QC2-1-B       -       1.0000 02F2701.D       4         28 28       1 P2019-0301-1-A       -       1.0000 02F2801.D       4         29 29       1 P2019-0312-1-A       -       1.0000 03F3001.D       6         30 30       1 P2019-0312-1-B       -       1.0000 03F3001.D       6         31 31       1 P2019-0312-1-B       -       1.0000 03F3001.D       6         32 32       1 P2019-0331-1-A       -       1.0000 03F3001.D       2         33 33       1 P2019-0331-1-B       -       1.0000 03F3001.D       2         34 34       1 P2019-0354-1-A       -       1.0000 03F3001.D       4         35 35       1 P2019-0381-1-A       -       1.0000 03F3001.D       4         36 36       1 P2019-0381-1-A       -       1.0000 03F3001.D								
23 23					_			
24       1       P2019-0286-1-A       -       1.0000       024F2401.D       6         25       25       1       P2019-0086-1-B       -       1.0000       025F2501.D       6         26       26       1       QC2-1-A       -       1.0000       026F2601.D       4         27       27       1       QC2-1-B       -       1.0000       027F2701.D       4         28       28       1       P2019-0301-1-A       -       1.0000       028F2801.D       4         29       29       1       P2019-0312-1-A       -       1.0000       039F3001.D       6         30       30       1       P2019-0312-1-B       -       1.0000       031F3101.D       6         31       31       1       P2019-0312-1-B       -       1.0000       031F3101.D       6         32       32       1       P2019-0331-1-A       -       1.0000       032F3201.D       2         33       33       1       P2019-0354-1-A       -       1.0000       034F3401.D       4         35       35       1       P2019-0381-1-A       -       1.0000       036F3601.D       6         37       37 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>					_			
25 25								
26       1 QC2-1-A       -       1.0000 026F2601.D       4         27       27       1 QC2-1-B       -       1.0000 027F2701.D       4         28       28       1 P2019-0301-1-A       -       1.0000 028F2801.D       4         29       29       1 P2019-0312-1-A       -       1.0000 039F3001.D       6         30       30       1 P2019-0312-1-B       -       1.0000 031F3101.D       6         31       31       1 P2019-0331-1-A       -       1.0000 032F3201.D       2         32       32       1 P2019-0331-1-B       -       1.0000 033F3301.D       2         34       34       1 P2019-0354-1-A       -       1.0000 034F3401.D       4         35       35       1 P2019-0354-1-B       -       1.0000 035F3501.D       4         36       1 P2019-0381-1-B       -       1.0000 036F3601.D       6         37       37       1 P2019-0381-1-B       -       1.0000 037F3701.D       6         38       38       1 P2019-0398-1-A       -       1.0000 037F3701.D       4         40       40       1 P2019-0400-1-A       -       1.0000 037F3701.D       4         40       40       1 P2019-0400-1-A					_			
27       1 QC2-1-B       -       1.0000 027F2701.D       4         28       28       1 P2019-0301-1-A       -       1.0000 028F2801.D       4         29       29       1 P2019-0301-1-B       -       1.0000 029F2901.D       6         30       30       1 P2019-0312-1-A       -       1.0000 030F3001.D       6         31       31       1 P2019-0312-1-B       -       1.0000 031F3101.D       6         32       32       1 P2019-0331-1-A       -       1.0000 032F3201.D       2         33       33       1 P2019-0331-1-B       -       1.0000 033F3301.D       2         34       34       1 P2019-0354-1-A       -       1.0000 034F3401.D       4         35       1 P2019-0381-1-B       -       1.0000 035F3501.D       4         36       36       1 P2019-0381-1-B       -       1.0000 036F3601.D       6         37       37       1 P2019-0398-1-A       -       1.0000 037F3701.D       6         38       38       1 P2019-0398-1-B       -       1.0000 038F3801.D       4         40       40       1 P2019-0400-1-A       -       1.0000 044F4001.D       4         41       41       1 P2019-0425-1-A <td>26</td> <td>26</td> <td></td> <td></td> <td>****</td> <td>1.0000</td> <td>026F2601.D</td> <td></td>	26	26			****	1.0000	026F2601.D	
29       1       P2019-0301-1-B       -       1.0000 029F2901.D       6         30       30       1       P2019-0312-1-A       -       1.0000 030F3001.D       6         31       31       1       P2019-0312-1-B       -       1.0000 031F3101.D       6         32       32       1       P2019-0331-1-A       -       1.0000 032F3201.D       2         33       33       1       P2019-0354-1-A       -       1.0000 034F3401.D       4         35       35       1       P2019-0354-1-B       -       1.0000 035F3501.D       4         36       36       1       P2019-0381-1-A       -       1.0000 036F3601.D       6         37       37       1       P2019-0381-1-B       -       1.0000 037F3701.D       6         38       38       1       P2019-0398-1-A       -       1.0000 038F3801.D       4         40       40       1       P2019-0398-1-B       -       1.0000 049F4001.D       4         41       41       1       P2019-0400-1-B       -       1.0000 042F4201.D       2         42       42       1       P2019-0425-1-B       -       1.0000 044F4401.D       4         44 <td>27</td> <td>27</td> <td></td> <td></td> <td>_</td> <td>1.0000</td> <td>027F2701.D</td> <td>4</td>	27	27			_	1.0000	027F2701.D	4
30       1       P2019-0312-1-A       -       1.0000       030F3001.D       6         31       31       1       P2019-0312-1-B       -       1.0000       031F3101.D       6         32       32       1       P2019-0331-1-A       -       1.0000       032F3201.D       2         33       33       1       P2019-0331-1-B       -       1.0000       033F3301.D       2         34       34       1       P2019-0354-1-A       -       1.0000       034F3401.D       4         35       35       1       P2019-0354-1-B       -       1.0000       035F3501.D       4         36       36       1       P2019-0381-1-A       -       1.0000       036F3601.D       6         37       37       1       P2019-0381-1-B       -       1.0000       037F3701.D       6         38       38       1       P2019-0398-1-A       -       1.0000       038F3801.D       4         40       40       1       P2019-0400-1-A       -       1.0000       049F4001.D       4         41       41       1       P2019-0425-1-A       -       1.0000       042F4201.D       2         43	28	28	1	P2019-0301-1-A	-	1.0000	028F2801.D	4
31       31       1       P2019-0312-1-B       -       1.0000       031F3101.D       6         32       32       1       P2019-0331-1-B       -       1.0000       032F3201.D       2         34       34       1       P2019-0354-1-A       -       1.0000       034F3401.D       4         35       35       1       P2019-0354-1-B       -       1.0000       035F3501.D       4         36       36       1       P2019-0381-1-A       -       1.0000       036F3601.D       6         37       37       1       P2019-0381-1-B       -       1.0000       037F3701.D       6         38       38       1       P2019-0398-1-A       -       1.0000       038F3801.D       4         40       40       1       P2019-0398-1-B       -       1.0000       039F3901.D       4         40       40       1       P2019-0400-1-A       -       1.0000       040F4001.D       4         41       41       1       P2019-0425-1-A       -       1.0000       042F4201.D       2         43       43       1       P2019-0425-1-B       -       1.0000       043F4301.D       2	29	29	1	P2019-0301-1-B	_	1.0000	029F2901.D	6
32       32       1 P2019-0331-1-A       -       1.0000 032F3201.D       2         33       33       1 P2019-0331-1-B       -       1.0000 033F3301.D       2         34       34       1 P2019-0354-1-A       -       1.0000 034F3401.D       4         35       35       1 P2019-0354-1-B       -       1.0000 035F3501.D       4         36       36       1 P2019-0381-1-A       -       1.0000 03F3601.D       6         37       37       1 P2019-0381-1-B       -       1.0000 03F3801.D       4         39       39       1 P2019-0398-1-B       -       1.0000 039F3901.D       4         40       40       1 P2019-0400-1-A       -       1.0000 040F4001.D       4         41       41       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43       43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44       44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45       45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	30	30	1	P2019-0312-1-A	_	1.0000	030F3001.D	6
33       33       1 P2019-0331-1-B       -       1.0000 033F3301.D       2         34       34       1 P2019-0354-1-A       -       1.0000 034F3401.D       4         35       35       1 P2019-0354-1-B       -       1.0000 035F3501.D       4         36       36       1 P2019-0381-1-A       -       1.0000 036F3601.D       6         37       37       1 P2019-0398-1-B       -       1.0000 037F3701.D       6         38       38       1 P2019-0398-1-B       -       1.0000 038F3801.D       4         40       40       1 P2019-0400-1-A       -       1.0000 049F4001.D       4         41       41       1 P2019-0400-1-B       -       1.0000 041F4101.D       4         42       42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43       43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44       44       1 P2019-0426-1-A       -       1.0000 045F4501.D       4	31	31	1	P2019-0312-1-B	****	1.0000	031F3101.D	6
34       34       1       P2019-0354-1-A       -       1.0000       034F3401.D       4         35       35       1       P2019-0354-1-B       -       1.0000       035F3501.D       4         36       36       1       P2019-0381-1-A       -       1.0000       036F3601.D       6         37       37       1       P2019-0381-1-B       -       1.0000       037F3701.D       6         38       38       1       P2019-0398-1-A       -       1.0000       038F3801.D       4         49       40       1       P2019-0398-1-B       -       1.0000       039F3901.D       4         40       40       1       P2019-0400-1-A       -       1.0000       040F4001.D       4         41       41       1       P2019-0425-1-A       -       1.0000       041F4101.D       2         43       43       1       P2019-0425-1-B       -       1.0000       043F4301.D       2         44       44       1       P2019-0426-1-A       -       1.0000       045F4501.D       4	32	32	1	P2019-0331-1-A	_	1.0000	032F3201.D	2
35       1       P2019-0354-1-B       -       1.0000       035F3501.D       4         36       36       1       P2019-0381-1-A       -       1.0000       036F3601.D       6         37       37       1       P2019-0381-1-B       -       1.0000       037F3701.D       6         38       38       1       P2019-0398-1-A       -       1.0000       038F3801.D       4         39       39       1       P2019-0398-1-B       -       1.0000       039F3901.D       4         40       40       1       P2019-0400-1-A       -       1.0000       040F4001.D       4         41       41       1       P2019-0425-1-A       -       1.0000       042F4201.D       2         43       43       1       P2019-0425-1-B       -       1.0000       043F4301.D       2         44       44       1       P2019-0426-1-A       -       1.0000       045F4501.D       4	33	33	1	P2019-0331-1-B		1.0000	033F3301.D	2
36       1       P2019-0381-1-A       -       1.0000       036F3601.D       6         37       37       1       P2019-0381-1-B       -       1.0000       037F3701.D       6         38       38       1       P2019-0398-1-A       -       1.0000       038F3801.D       4         39       39       1       P2019-0398-1-B       -       1.0000       039F3901.D       4         40       40       1       P2019-0400-1-A       -       1.0000       040F4001.D       4         41       41       1       P2019-0425-1-A       -       1.0000       042F4201.D       2         43       43       1       P2019-0425-1-B       -       1.0000       043F4301.D       2         44       44       1       P2019-0426-1-A       -       1.0000       045F4501.D       4	34	34	1	P2019-0354-1-A	_	1.0000	034F3401.D	4
37 37       1 P2019-0381-1-B       -       1.0000 037F3701.D       6         38 38       1 P2019-0398-1-A       -       1.0000 038F3801.D       4         39 39       1 P2019-0398-1-B       -       1.0000 039F3901.D       4         40 40       1 P2019-0400-1-A       -       1.0000 040F4001.D       4         41 41       1 P2019-0400-1-B       -       1.0000 041F4101.D       4         42 42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43 43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	35	35	1	P2019-0354-1-B	***	1.0000	035F3501.D	4
38 38       1 P2019-0398-1-A       -       1.0000 038F3801.D       4         39 39       1 P2019-0398-1-B       -       1.0000 039F3901.D       4         40 40       1 P2019-0400-1-A       -       1.0000 040F4001.D       4         41 41       1 P2019-0400-1-B       -       1.0000 041F4101.D       4         42 42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43 43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	36	36	1	P2019-0381-1-A	_	1.0000	036F3601.D	6
39 39       1 P2019-0398-1-B       -       1.0000 039F3901.D       4         40 40       1 P2019-0400-1-A       -       1.0000 040F4001.D       4         41 41       1 P2019-0400-1-B       -       1.0000 041F4101.D       4         42 42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43 43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	37	37	1	P2019-0381-1-B		1.0000	037F3701.D	6
40 40       1 P2019-0400-1-A       -       1.0000 040F4001.D       4         41 41       1 P2019-0400-1-B       -       1.0000 041F4101.D       4         42 42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43 43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	38	38	1	P2019-0398-1-A	-	1.0000	038F3801.D	4
41 41       1 P2019-0400-1-B       -       1.0000 041F4101.D       4         42 42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43 43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	39	39	1	P2019-0398-1-B		1.0000	039F3901.D	4
42 42       1 P2019-0425-1-A       -       1.0000 042F4201.D       2         43 43       1 P2019-0425-1-B       -       1.0000 043F4301.D       2         44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	40	40	1	P2019-0400-1-A	-	1.0000	040F4001.D	4
43       43       1       P2019-0425-1-B       -       1.0000       043F4301.D       2         44       44       1       P2019-0426-1-A       -       1.0000       044F4401.D       4         45       45       1       P2019-0426-1-B       -       1.0000       045F4501.D       4	41	41	1	P2019-0400-1-B	_	1.0000	041F4101.D	4
44 44       1 P2019-0426-1-A       -       1.0000 044F4401.D       4         45 45       1 P2019-0426-1-B       -       1.0000 045F4501.D       4	42	42	1	P2019-0425-1-A		1.0000	042F4201.D	2
45 45	43	43	1	P2019-0425-1-B	-	1.0000	043F4301.D	2
	44	44	1	P2019-0426-1-A		1.0000	044F4401.D	4
46 46 1 P2019-0427-1-A - 1.0000 046F4601.D 6 C	45	45	1	P2019-0426-1-B	_	1.0000	045F4501.D	
	46	46	1	P2019-0427-1-A	_	1.0000	046F4601.D	6 (

Run	Location	Inj	Sample Name	Sample Amt	Multip.*	File name	Cal #
#		#		[g/100cc]	Dilution		Cmp
47	47	1	P2019-0427-1-B	-	1.0000	047F4701.D	6
48	48	1	QC1-2-A	****	1.0000	048F4801.D	4
49	49	1	QC1-2-B	_	1.0000	049F4901.D	4
50	50	1	P2019-0428-1-A	_	1.0000	050F5001.D	4
51	51	1	P2019-0428-1-B		1.0000	051F5101.D	4
52	52	1	P2019-0456-1-A	_	1.0000	052F5201.D	4
53	53	1	P2019-0456-1-B	_	1.0000	053F5301.D	4
54	54	1	P2019-0470-1-A	-	1.0000	054F5401.D	4
55	55	1	P2019-0470-1-B	_	1.0000	055F5501.D	4
56	56	1	QC2-2-A		1.0000	056F5601.D	4
57	57	1	QC2-2-B	-	1.0000	057F5701.D	4
58	58	1	INT STD BLK	_	1.0000	058F5801.D	2
59	59	1	TFE	_	1.0000	059F5901.D	3
60	60	1	INT STD BLK	-	1.0000	060F6001.D	3
61	61	1	DFE	_	1.0000	061F6101.D	3
62	62	1	INT STD BLK		1.0000	062F6201.D	2

AC