Loadlist-Alcohol Reference Solution Verification

Location	Sample
1	Volatiles Mix
2	Blank
3	Cerilliant 25
4	Cerilliant 100
5	Cerilliant 200
6	Cerilliant 400
7	Blank
8	Lipomed 50
9	181
10	182
11	183
12	184
13	186
14	187
15	188
16	189
17	191
18	192
19	Lipomed 100
20	181
21	182
22	183
23	184
24	186
25	187
26	188
27	189
28	191
29	192
30	Lipomed 300

Instrument Parameters			
Sample Temp	60	C	✓
Needle Temp	70	C	✓
Transfer Temp	80	C	✓
Thermostat time	15	min	✓
Pressurization time	2.0	min	✓
Withdraw time	0.2	min	✓
Injection Time	0.03	min	✓
Cycle Time	4.5	min	✓
Inlet temp	90	C	✓
He Carrier pressure	15	psi	✓
Column oven temp	55	C	✓
Run Time	5.0	min	✓
FID Temp	220	C	✓
Hydrogen Flow	45	mL/min	✓
Air Flow	450	mL/min	✓

Procedure Used	Eff. Date
ATP-TSOP v.2 section 4	Dec-18

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	052019 TG	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	11/2021
Cerilliant 25	FN09081706	5/2023
Cerilliant 100	FN08101601	8/2021
Cerilliant 200	FN06231704	8/2022
Cerilliant 400	FN05131606	6/2021
Lipomed 50	08012015-B	1/2020
Lipomed 100	06072017-A_1	7/2022
Lipomed 300	18052015-A/1	5/2020

Reference Solution

Level Tested:	0.08 g/ 210 L
Lot #:	201905B
Manufacture Date:	5/14/2019
Expiration Date	5/14/2021

Operator: JJ Fabre

Date: 5/23/19

Alcohol Analysis QC Summary

Report Date	5/23/2019
Reviewer	TJ Graham

5/23/19 TJG

Run Summary Data				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
5/23/2019	A	Volatiles Mix	041513 DKR	1.415	26149.76	0.0382	2.008	250884.60
5/23/2019	A	Blank	167428		0.00	0.0000	2.008	253803.84
5/23/2019	A	CER 25	FN09081706	1.415	17600.79	0.0257	2.009	255066.12
5/23/2019	A	CER 100	FN08101601	1.415	70764.85	0.1000	2.009	253952.83
5/23/2019	A	CER 200	FN06231704	1.415	141206.82	0.1993	2.009	252008.09
5/23/2019	A	CER 400	FN05131606	1.415	284439.32	0.4004	2.009	251784.65
5/23/2019	A	Blank	167428		0.00	0.0000	2.009	254403.07
5/23/2019	A	Lipomed 50	08012015-B	1.414	35093.27	0.0504	2.008	252558.00
5/23/2019	A	181	201905B	1.414	68042.06	0.0968	2.008	251590.55
5/23/2019	A	182	201905B	1.415	69471.12	0.0974	2.009	255389.29
5/23/2019	A	183	201905B	1.415	69474.52	0.0975	2.009	254937.13
5/23/2019	A	184	201905B	1.415	68903.46	0.0968	2.009	254823.38
5/23/2019	A	186	201905B	1.415	69231.01	0.0972	2.009	254991.17
5/23/2019	A	187	201905B	1.415	69465.67	0.0972	2.009	255790.17
5/23/2019	A	188	201905B	1.415	69003.40	0.0976	2.009	253138.02
5/23/2019	A	189	201905B	1.415	68200.93	0.0971	2.009	251295.04
5/23/2019	A	191	201905B	1.415	68234.53	0.0980	2.009	249119.37
5/23/2019	A	192	201905B	1.415	69488.36	0.0970	2.009	256343.58
5/23/2019	A	Lipomed 100	06072017-A_1	1.415	69158.94	0.0993	2.009	249111.55
5/23/2019	A	181	201905B	1.415	69435.71	0.0969	2.009	256381.65
5/23/2019	A	182	201905B	1.415	69557.57	0.0978	2.009	254689.65
5/23/2019	A	183	201905B	1.415	68497.25	0.0974	2.009	251658.86
5/23/2019	A	184	201905B	1.415	69168.82	0.0976	2.009	253730.58
5/23/2019	A	186	201905B	1.415	69055.31	0.0978	2.009	252708.54
5/23/2019	A	187	201905B	1.415	68958.38	0.0971	2.009	254347.77
5/23/2019	A	188	201905B	1.415	69169.41	0.0970	2.009	255126.86
5/23/2019	A	189	201905B	1.416	69277.85	0.0967	2.010	256546.26
5/23/2019	A	191	201905B	1.415	68901.88	0.0968	2.009	254830.91
5/23/2019	A	192	201905B	1.415	70233.18	0.0973	2.009	258479.68
5/23/2019	A	Lipomed 300	18052015-A/1	1.414	220254.44	0.3008	2.008	259801.05
							%CV =	0.96%

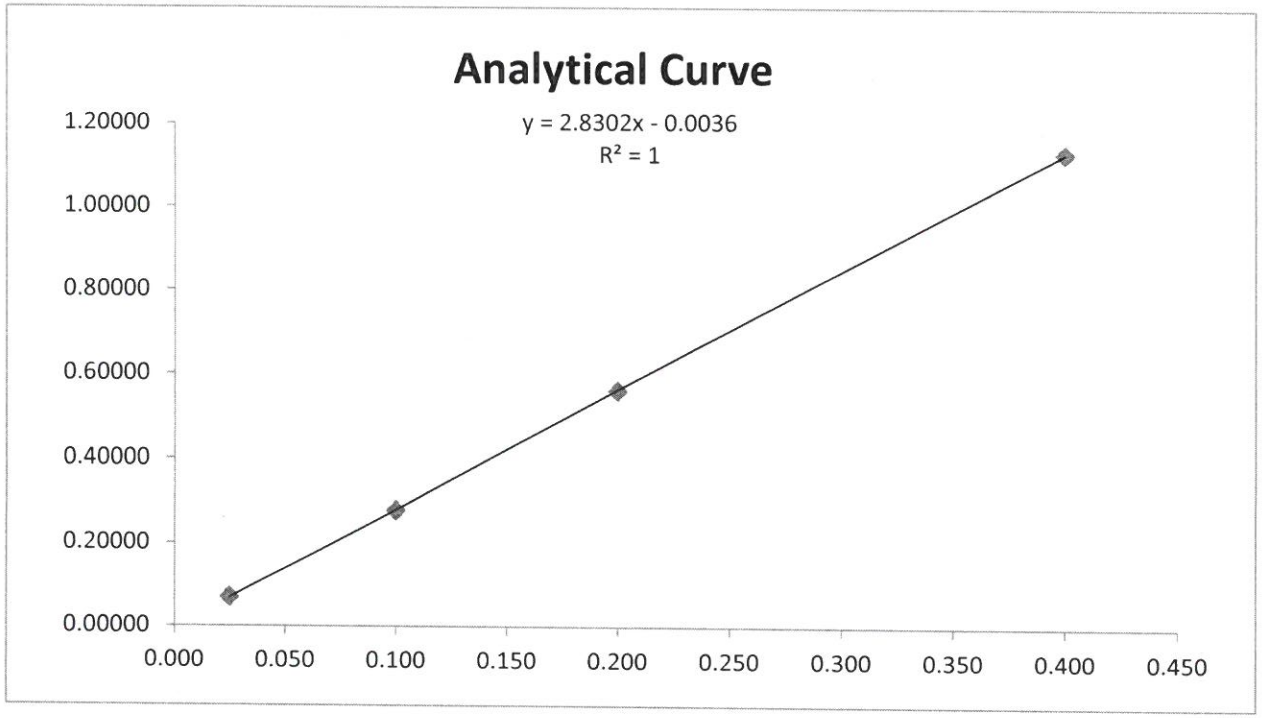
ALCOHOL ANALYSIS QC SUMMARY

Report Date	5/23/2019
Reviewer	TJ Graham

5/23/19 TJ

RUN SUMMARY DATA				**Ethanol**			**n-Propanol**	
Run Date	**Channel**	**Sample**	**Lot**	**RT**	**Area**	**Conc.**	**RT**	**Area**
5/23/2019	A	CER 25	FN09081706	1.415	17600.79	0.0257	2.009	255066.12
5/23/2019	A	CER 100	FN08101601	1.415	70764.85	0.1000	2.009	253952.83
5/23/2019	A	CER 200	FN06231704	1.415	141206.82	0.1993	2.009	252008.09
5/23/2019	A	CER 400	FN05131606	1.415	284439.32	0.4004	2.009	251784.65

Summary		**Standard**	**g/dL**	**Ratio**	**Calc.**	**Diff**
		Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8302	CER 25	0.025	0.06900	0.02564	0.00064
Intercept	-0.0036	CER 100	0.100	0.27865	0.09971	-0.00029
Standard Error	0.002229203	CER 200	0.200	0.56033	0.19924	-0.00076
R-Squared	1.0000	CER 400	0.400	1.12969	0.40041	0.00041



Source:	Alcohol Countermeasure Systems, Inc.

Lot	201905B
Level	0.08 g/ 210 L
Manufacture Date	5/14/2019
Expiration Date	5/14/2021

Bottle	Result (g/100mL)
181	0.0968
	0.0969
182	0.0974
	0.0978
183	0.0975
	0.0974
184	0.0968
	0.0976
186	0.0972
	0.0978
187	0.0972
	0.0971
188	0.0976
	0.0970
189	0.0971
	0.0967
191	0.0980
	0.0968
192	0.0970
	0.0973

Mean	0.0973
Std. Dev.	0.0004
Min	0.0967
Max	0.0980

5/23/19
JD