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	171
10	172
11	174
12	175
13	176
14	177
15	179
16	180
17	181
18	182
19	Lipomed 100
20	171
21	172
22	174
23	175
24	176
25	177
26	179
27	180
28	181
29	182
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.1 section 4	Oct-17

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	03052018 TG	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	11/2021
Cerilliant 25	FN06221502	8/2020
Cerilliant 100	FN08101601	8/2021
Cerilliant 200	FN03301601	4/2021
Cerilliant 400	FN05131606	6/2021
Lipomed 50	08012015-B	1/2020
Lipomed 100	09022015-B	2/2020
Lipomed 300	18052015-A/1	5/2020

Reference Solution

Level Tested:	0.20 g/ 210 L
Lot #:	201802G
Manufacture Date:	2/22/2018
Expiration Date	2/22/2020

Operator: JA Graham

Date: 3/5/18

Alcohol Analysis QC Summary

Report Date	3/5/2018
Reviewer	TJ Graham

3/5/18 TJ

Run Summary Data				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
3/5/2018	A	Volatiles Mix	041513 DKR	1.414	26225.46	0.0374	2.008	257848.29
3/5/2018	A	Blank	167428		0.00	0.0000	2.008	255693.36
3/5/2018	A	CER 025	FN06221502	1.414	17356.81	0.0254	2.008	258746.39
3/5/2018	A	CER 100	FN08101601	1.414	69060.21	0.0980	2.008	255807.58
3/5/2018	A	CER 200	FN03301601	1.413	139722.27	0.1959	2.008	257179.23
3/5/2018	A	CER 400	FN05131606	1.413	280723.74	0.4000	2.008	258135.46
3/5/2018	A	Blank	167428		0.00	0.0000	2.008	257228.67
3/5/2018	A	Lipomed 50	08012015-B	1.414	34743.42	0.0497	2.008	259710.25
3/5/2018	A	171	201802G	1.413	168100.00	0.2417	2.008	256068.62
3/5/2018	A	172	201802G	1.414	168874.27	0.2417	2.008	257179.30
3/5/2018	A	174	201802G	1.413	167722.28	0.2422	2.008	254892.23
3/5/2018	A	175	201802G	1.413	168263.83	0.2417	2.008	256249.33
3/5/2018	A	176	201802G	1.413	168855.79	0.2426	2.008	256216.43
3/5/2018	A	177	201802G	1.414	170414.84	0.2429	2.008	258263.87
3/5/2018	A	179	201802G	1.413	167147.79	0.2434	2.008	252798.72
3/5/2018	A	180	201802G	1.414	169740.11	0.2427	2.008	257432.25
3/5/2018	A	181	201802G	1.413	170307.06	0.2428	2.008	258237.38
3/5/2018	A	182	201802G	1.413	169418.68	0.2420	2.008	257691.68
3/5/2018	A	Lipomed 100	09022015-B	1.414	69032.97	0.0999	2.008	255108.80
3/5/2018	A	171	201802G	1.413	166940.08	0.2413	2.008	254737.02
3/5/2018	A	172	201802G	1.414	169039.76	0.2408	2.008	258387.09
3/5/2018	A	174	201802G	1.413	170616.10	0.2415	2.008	260138.69
3/5/2018	A	175	201802G	1.414	168701.86	0.2415	2.008	257225.24
3/5/2018	A	176	201802G	1.414	171010.57	0.2417	2.008	260424.69
3/5/2018	A	177	201802G	1.413	170383.37	0.2422	2.008	258965.93
3/5/2018	A	179	201802G	1.413	168981.61	0.2424	2.008	256607.60
3/5/2018	A	180	201802G	1.414	169395.65	0.2426	2.008	257099.88
3/5/2018	A	181	201802G	1.414	170456.18	0.2417	2.009	259603.68
3/5/2018	A	182	201802G	1.414	170720.53	0.2416	2.008	260111.49
3/5/2018	A	Lipomed 300	18052015-A/1	1.413	214106.97	0.3010	2.008	261735.16
							%CV =	0.76%

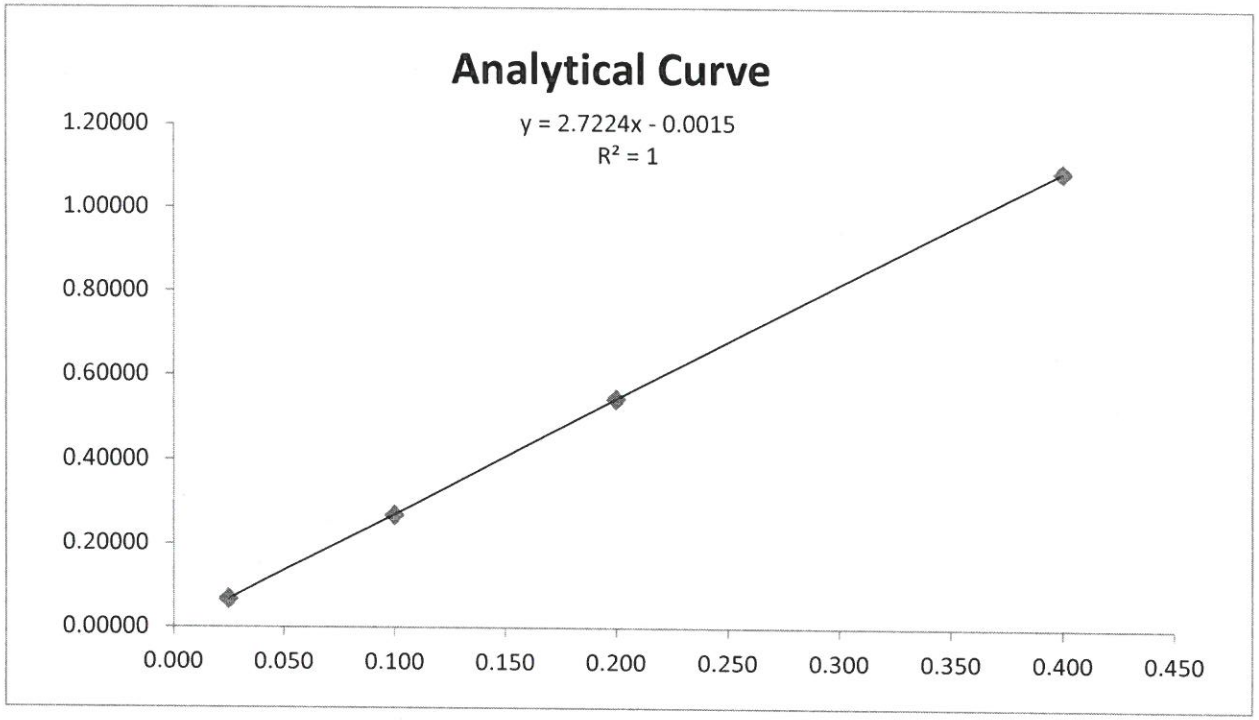
ALCOHOL ANALYSIS QC SUMMARY

3/5/18
TJ

Report Date	3/5/2018
Reviewer	TJ Graham

RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
3/5/2018	A	CER 025	FN06221502	1.414	17356.81	0.0254	2.008	258746.39
3/5/2018	A	CER 100	FN08101601	1.414	69060.21	0.0980	2.008	255807.58
3/5/2018	A	CER 200	FN03301601	1.413	139722.27	0.1959	2.008	257179.23
3/5/2018	A	CER 400	FN05131606	1.413	280723.74	0.4000	2.008	258135.46

Summary		Standard	g/dL	Ratio	Calc.	Diff
		Blank	0.000	0.00000	0.00000	0.00000
Slope	2.7224	CER 025	0.025	0.06708	0.02518	0.00018
Intercept	-0.0015	CER 100	0.100	0.26997	0.09971	-0.00029
Standard Error	0.000692309	CER 200	0.200	0.54329	0.20010	0.00010
R-Squared	1.0000	CER 400	0.400	1.08751	0.40001	0.00001



Source:	Alcohol Countermeasure Systems, Inc.

Lot	201802G
Level	0.20 g/ 210 L
Manufacture Date	2/22/2018
Expiration Date	2/22/2020

Bottle	Result (g/100mL)
171	0.2417
	0.2413
172	0.2417
	0.2408
174	0.2422
	0.2415
175	0.2417
	0.2415
176	0.2426
	0.2417
177	0.2429
	0.2422
179	0.2434
	0.2424
180	0.2427
	0.2426
181	0.2428
	0.2417
182	0.2420
	0.2416

3/5/18
JD

Mean	0.2421
Std. Dev.	0.0006
Min	0.2408
Max	0.2434