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	2214
10	2215
11	2216
12	2218
13	2219
14	2220
15	2221
16	2223
17	2224
18	2226
19	Lipomed 100
20	2214
21	2215
22	2216
23	2218
24	2219
25	2220
26	2221
27	2223
28	2224
29	2226
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	082318 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:	0.08 g/ 210 L
Lot #:	201808E
Manufacture Date:	8/22/2018
Expiration Date	8/22/2020

Operator: _____

Date: 8/27/18

Alcohol Analysis QC Summary

Report Date	8/27/2018
Reviewer	TJ Graham

8/27/18 TJG

Run Summary Data				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
8/27/2018	A	Volatiles Mix	041513 DKR	1.413	25740.41	0.0386	2.007	244026.77
8/27/2018	A	Blank	167428		0.00	0.0000	2.009	250213.15
8/27/2018	A	CER 25	FN06221502	1.413	17284.66	0.0259	2.007	248513.86
8/27/2018	A	CER 100	FN08101601	1.412	69174.03	0.1001	2.007	246439.34
8/27/2018	A	CER 200	FN03301601	1.413	137540.69	0.1994	2.007	243782.50
8/27/2018	A	CER 400	FN05131606	1.412	278829.20	0.4002	2.007	245905.38
8/27/2018	A	Blank	167428		0.00	0.0000	2.007	246581.28
8/27/2018	A	Lipomed 50	08012015-B	1.412	34443.36	0.0496	2.007	248884.35
8/27/2018	A	2214	201808E	1.412	67547.67	0.0966	2.007	248588.62
8/27/2018	A	2215	201808E	1.412	67264.47	0.0967	2.007	247180.58
8/27/2018	A	2216	201808E	1.413	67027.61	0.0968	2.007	246179.63
8/27/2018	A	2218	201808E	1.413	67499.06	0.0970	2.007	247444.94
8/27/2018	A	2219	201808E	1.414	66965.91	0.0970	2.009	245367.55
8/27/2018	A	2220	201808E	1.412	67239.53	0.0967	2.007	247080.63
8/27/2018	A	2221	201808E	1.412	67631.83	0.0970	2.007	247950.22
8/27/2018	A	2223	201808E	1.413	67513.58	0.0966	2.007	248466.89
8/27/2018	A	2224	201808E	1.413	67697.83	0.0969	2.008	248304.07
8/27/2018	A	2226	201808E	1.412	66738.04	0.0971	2.007	244433.59
8/27/2018	A	Lipomed 100	09022015-B	1.413	68322.80	0.0985	2.007	246613.54
8/27/2018	A	2214	201808E	1.413	67532.14	0.0965	2.007	248758.93
8/27/2018	A	2215	201808E	1.412	66767.96	0.0967	2.007	245562.45
8/27/2018	A	2216	201808E	1.414	67288.33	0.0966	2.008	247687.03
8/27/2018	A	2218	201808E	1.412	66643.74	0.0969	2.007	244568.38
8/27/2018	A	2219	201808E	1.413	67189.51	0.0967	2.007	247120.78
8/27/2018	A	2220	201808E	1.412	67133.97	0.0968	2.007	246658.76
8/27/2018	A	2221	201808E	1.413	67266.32	0.0969	2.007	246807.12
8/27/2018	A	2223	201808E	1.413	66899.20	0.0967	2.007	245873.76
8/27/2018	A	2224	201808E	1.413	68566.05	0.0968	2.007	251870.72
8/27/2018	A	2226	201808E	1.414	68616.44	0.0964	2.008	252950.55
8/27/2018	A	Lipomed 300	18052015-A/1	1.413	216899.59	0.2995	2.008	255841.76
							%CV =	1.05%

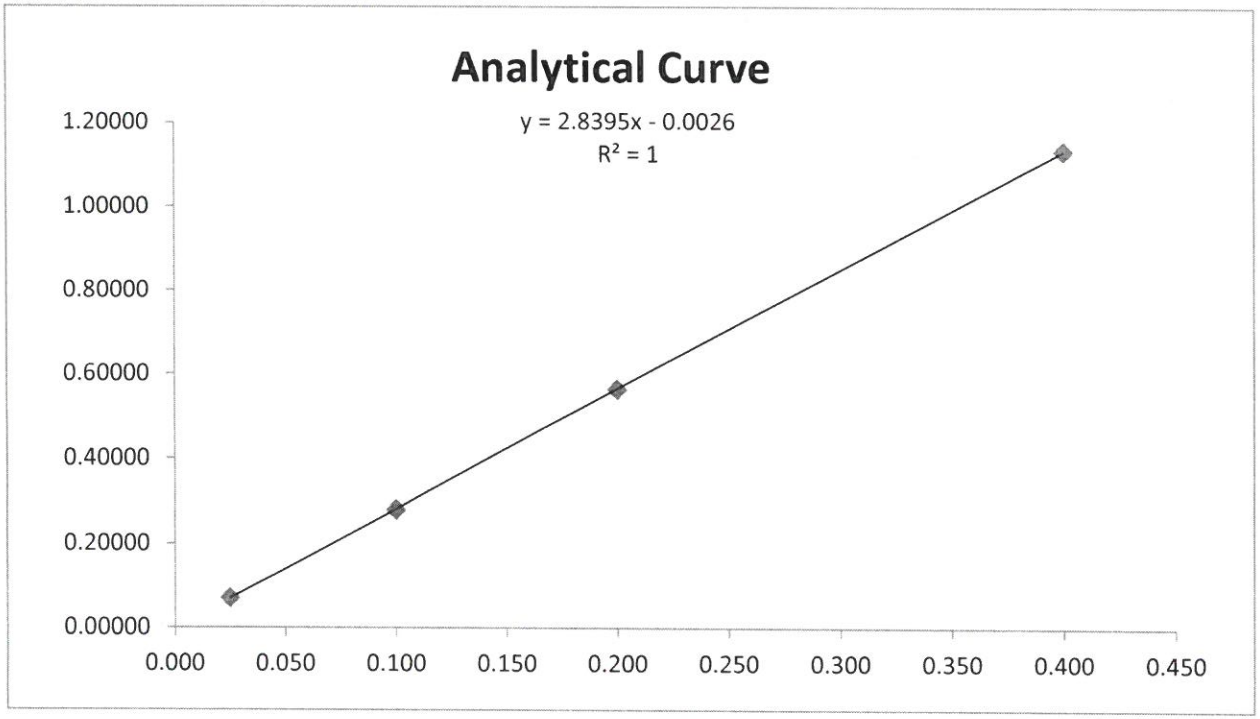
ALCOHOL ANALYSIS QC SUMMARY

8/27/18
TJ

Report Date	8/27/2018
Reviewer	TJ Graham

RUN SUMMARY DATA				**Ethanol**			**n-Propanol**	
Run Date	**Channel**	**Sample**	**Lot**	**RT**	**Area**	**Conc.**	**RT**	**Area**
8/27/2018	A	CER 25	FN06221502	1.413	17284.66	0.0259	2.007	248513.86
8/27/2018	A	CER 100	FN08101601	1.412	69174.03	0.1001	2.007	246439.34
8/27/2018	A	CER 200	FN03301601	1.413	137540.69	0.1994	2.007	243782.50
8/27/2018	A	CER 400	FN05131606	1.412	278829.20	0.4002	2.007	245905.38

Summary		**Standard**	**g/dL**	**Ratio**	**Calc.**	**Diff**
		Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8395	CER 025	0.025	0.06955	0.02540	0.00040
Intercept	-0.0026	CER 100	0.100	0.28069	0.09976	-0.00024
Standard Error	0.001319245	CER 200	0.200	0.56419	0.19960	-0.00040
R-Squared	1.0000	CER 400	0.400	1.13389	0.40023	0.00023



Source:	Alcohol Countermeasure Systems, Inc.

Lot	201808E
Level	0.08 g/ 210 L
Manufacture Date	8/22/2018
Expiration Date	8/22/2020

Bottle	Result (g/100mL)
2214	0.0966
	0.0965
2215	0.0967
	0.0967
2216	0.0968
	0.0966
2218	0.0970
	0.0969
2219	0.0970
	0.0967
2220	0.0967
	0.0968
2221	0.0970
	0.0969
2223	0.0966
	0.0967
2224	0.0969
	0.0968
2226	0.0971
	0.0964

8/27/18
JT

Mean	0.0968
Std. Dev.	0.0002
Min	0.0964
Max	0.0971