

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	333
10	345
11	349
12	344
13	347
14	334
15	335
16	332
17	338
18	336
19	Lipomed 100
20	333
21	345
22	349
23	344
24	347
25	334
26	335
27	332
28	338
29	336
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	100220bk	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	Nov-21
Cerilliant 025	FN09081706	5/2023
Cerilliant 100	FN02271802	4/2023
Cerilliant 200	FN06231704	8/2022
Cerilliant 400	FN05131606	6/2021
Lipomed 50	10072019-A	7/2024
Lipomed 100	14082019-A	8/2024
Lipomed 300	11092018-B	9/2023

Reference Solution

Level Tested:	0.080 g/210L
Lot #:	202010B
Manufacture Date:	10/5/2020
Expiration Date	10/5/2022

Operator: TSK

Date: 10/22/2020

Alcohol Analysis QC Summary

Report Date	10/22/2020
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Reviewer	Brett Kirkland
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Run Summary Data			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
10/22/2020	A	Volatiles Mix	041513 DKR	1.391	29411.89	0.0384	1.984	291849.86
10/22/2020	A	Blank	167428		0.00	0.0000	1.984	292390.78
10/22/2020	A	CER 025	FN09081706	1.391	19643.02	0.0263	1.984	288077.37
10/22/2020	A	CER 100	FN02271802	1.391	79764.73	0.1008	1.984	290962.52
10/22/2020	A	CER 200	FN06231704	1.391	156710.09	0.2002	1.984	286468.56
10/22/2020	A	CER 400	FN05131606	1.390	318511.40	0.4004	1.984	289247.67
10/22/2020	A	Blank	167428		0.00	0.0000	1.984	285943.23
10/22/2020	A	Lipomed 50	10072019-A	1.391	38498.95	0.0501	1.984	282366.13
10/22/2020	A	333	202010B	1.391	74698.28	0.0968	1.985	281725.97
10/22/2020	A	345	202010B	1.391	76265.66	0.0967	1.984	287987.54
10/22/2020	A	349	202010B	1.391	76981.40	0.0967	1.985	290764.77
10/22/2020	A	344	202010B	1.390	75722.26	0.0967	1.984	286041.54
10/22/2020	A	347	202010B	1.387	75912.49	0.0971	1.981	285698.04
10/22/2020	A	334	202010B	1.390	69560.51	0.0974	1.984	260921.01
10/22/2020	A	335	202010B	1.391	76510.14	0.0967	1.984	289095.98
10/22/2020	A	332	202010B	1.391	77457.70	0.0964	1.985	293630.66
10/22/2020	A	338	202010B	1.391	77469.40	0.0966	1.984	293019.13
10/22/2020	A	336	202010B	1.391	76949.27	0.0970	1.984	289755.63
10/22/2020	A	Lipomed 100	14082019-A	1.391	80207.63	0.0994	1.984	294685.72
10/22/2020	A	333	202010B	1.391	76437.97	0.0963	1.985	290034.94
10/22/2020	A	345	202010B	1.391	77089.41	0.0964	1.984	291952.09
10/22/2020	A	349	202010B	1.388	69847.61	0.0951	1.982	268225.57
10/22/2020	A	344	202010B	1.389	69045.19	0.0951	1.983	265241.33
10/22/2020	A	347	202010B	1.390	76157.99	0.0970	1.984	286731.72
10/22/2020	A	334	202010B	1.392	81058.32	0.0964	1.985	306987.13
10/22/2020	A	335	202010B	1.392	77263.31	0.0966	1.985	292142.98
10/22/2020	A	332	202010B	1.390	77040.19	0.0965	1.984	291633.72
10/22/2020	A	338	202010B	1.391	79645.58	0.0963	1.984	301962.40
10/22/2020	A	336	202010B	1.391	80547.01	0.0963	1.984	305546.73
10/22/2020	A	Lipomed 300	11092018-B	1.390	252177.05	0.2989	1.984	306937.60

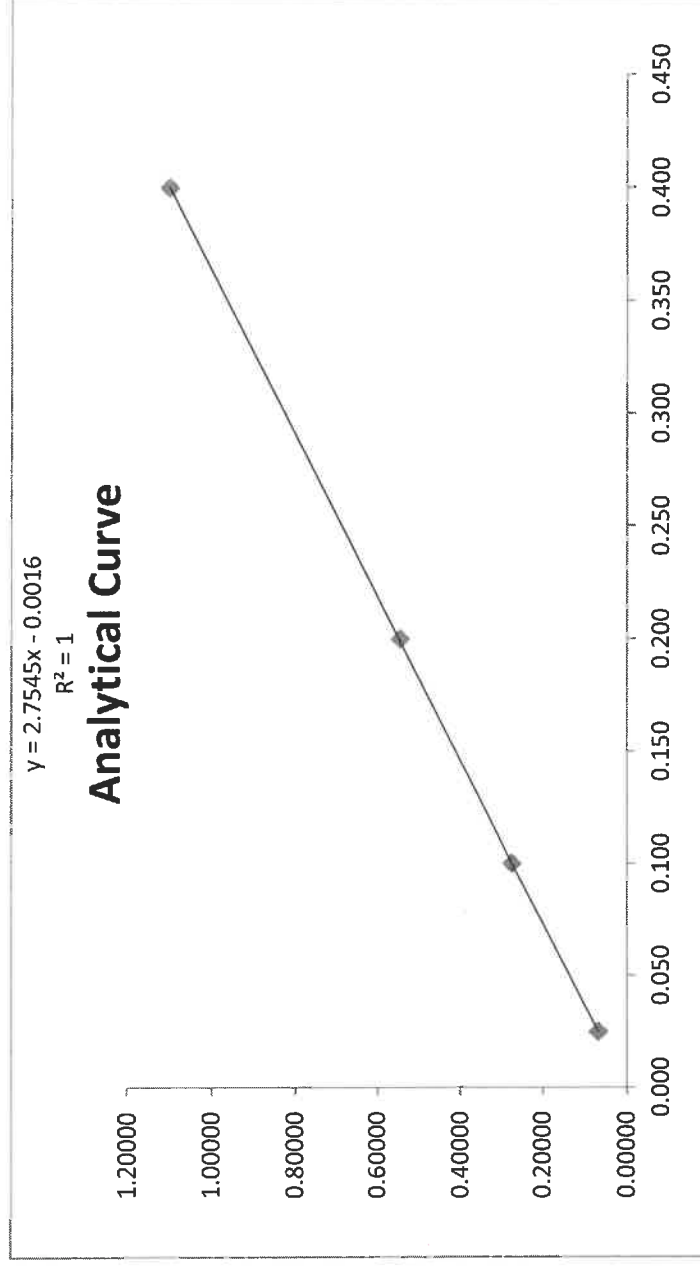
%CV = 3.60%

ALCOHOL ANALYSIS QC SUMMARY

Report Date	10/22/2020
Reviewer	Brett Kirkland

RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
10/22/2020	A	CER 025	FN09081706	1.391	19643.02	0.0263	1.984	288077.37
10/22/2020	A	CER 100	FN02271802	1.391	79764.73	0.1008	1.984	290962.52
10/22/2020	A	CER 200	FN06231704	1.391	156710.09	0.2002	1.984	286468.56
10/22/2020	A	CER 400	FN05131606	1.390	318511.40	0.4004	1.984	289247.67

Summary		Standard	g/dL	Ratio	Calc.	Diff
Slope		Blank	0.000	0.00000	0.00000	0.00000
Intercept		CER 025	0.025	0.06819	0.02534	0.00034
Standard Error		CER 100	0.100	0.27414	0.10011	0.00011
R-Squared		CER 200	0.200	0.54704	0.19919	-0.00081
		CER 400	0.400	1.10117	0.40036	0.00036



Source:	Alcohol Countermeasure Systems, Inc.
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Lot	202010B
Level	0.080 g/210L
Manufacture Date	10/5/2020
Expiration Date	10/5/2022

Bottle	Result (g/100mL)
333	0.0968
	0.0963
345	0.0967
	0.0964
349	0.0967
	0.0951
344	0.0967
	0.0951
347	0.0971
	0.0970
334	0.0974
	0.0964
335	0.0967
	0.0966
332	0.0964
	0.0965
338	0.0966
	0.0963
336	0.0970
	0.0963

Mean	0.0965
Std. Dev.	0.0006
Min	0.0951
Max	0.0974