

## ALCOHOL ANALYSIS QC SUMMARY

Report Date	9/30/13
Reviewer	Brett Kirkland

RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
9/30/2013	A	VoIs Mix	041513DKR	0.708	20.55712	0.0440	1.202	324.83679
9/30/2013	A	Blank			0.00000	0.0000	1.202	320.60156
9/30/2013	A	CER 025	FN032210-01	0.708	12.82199	0.0257	1.202	320.12909
9/30/2013	A	CER 100	FN050312-01	0.708	47.02723	0.1033	1.202	307.96762
9/30/2013	A	CER 200	FN032712-01	0.708	97.40481	0.2081	1.202	320.13913
9/30/2013	A	CER 400	FN012712-01	0.708	196.61725	0.4001	1.202	323.75629
9/30/2013	A	RES 50	A092903	0.708	25.89252	0.0526	1.202	318.10339
9/30/2013	A	1446	201308H	0.708	48.13427	0.0979	1.202	320.98434
9/30/2013	A	1445	201308H	0.708	47.63527	0.0975	1.202	318.92923
9/30/2013	A	1444	201308H	0.708	48.54214	0.0976	1.202	324.67117
9/30/2013	A	1441	201308H	0.708	47.96892	0.0974	1.202	321.68796
9/30/2013	A	1442	201308H	0.708	48.40110	0.0977	1.202	323.58047
9/30/2013	A	1443	201308H	0.708	48.25846	0.0976	1.202	322.89697
9/30/2013	A	1450	201308H	0.708	47.88609	0.0974	1.202	320.87958
9/30/2013	A	1447	201308H	0.708	48.67401	0.0977	1.202	325.14767
9/30/2013	A	1451	201308H	0.708	48.63534	0.0977	1.202	325.13022
9/30/2013	A	1449	201308H	0.708	48.36340	0.0977	1.202	323.09439
9/30/2013	A	RES 100	A092464	0.708	49.20728	0.1003	1.202	320.51163
9/30/2013	A	1446	201308H	0.708	48.89685	0.0977	1.202	326.86569
9/30/2013	A	1445	201308H	0.708	48.02870	0.0976	1.202	321.27994
9/30/2013	A	1444	201308H	0.708	47.97972	0.0972	1.202	322.42789
9/30/2013	A	1441	201308H	0.708	48.19650	0.0974	1.202	323.00992
9/30/2013	A	1442	201308H	0.708	48.64977	0.0977	1.202	325.19797
9/30/2013	A	1443	201308H	0.708	48.08319	0.0974	1.202	322.31790
9/30/2013	A	1450	201308H	0.708	48.16452	0.0975	1.202	322.43143
9/30/2013	A	1447	201308H	0.708	48.37481	0.0975	1.202	324.11035
9/30/2013	A	1451	201308H	0.708	47.89808	0.0975	1.202	320.88446
9/30/2013	A	1449	201308H	0.708	48.00724	0.0977	1.202	320.98358
9/30/2013	A	RES 300	A094444	0.708	148.92082	0.2997	1.202	327.09525

Amended 11/19/15 JSK

Summary	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	CER 025	0.025	0.04005	0.02529	0.00029
Intercept	CER 100	0.100	0.15270	0.09973	-0.00027
Standard Error	CER 200	0.200	0.30426	0.19987	-0.00013
R-Squared	CER 400	0.400	0.60730	0.40012	0.00012

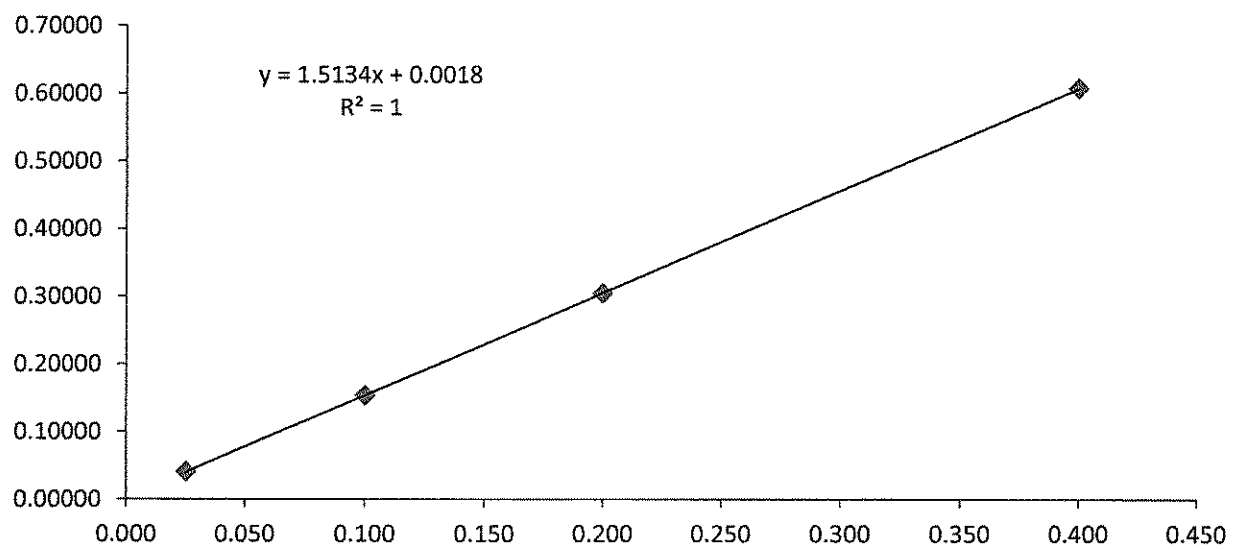
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RUN SUMMARY DATA				Ethanol			n-Propanol	
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9/30/2013	A	Vols Mix	041513DKR	0.708	20.55712	0.0440	1.202	324.83679
9/30/2013	A	Blank			0.00000	0.0000		0.00000
9/30/2013	A	CER 025	FN032210-01	0.708	12.82199	0.0257	1.202	320.12909
9/30/2013	A	CER 100	FN050312-01	0.708	47.02723	0.1033	1.202	307.96762
9/30/2013	A	CER 200	FN032712-01	0.708	97.40481	0.2081	1.202	320.13913
9/30/2013	A	CER 400	FN012712-01	0.708	196.61725	0.4001	1.202	323.75629
9/30/2013	A	RES 50	A092903	0.708	25.89252	0.0526	1.202	318.10339
9/30/2013	A	1446	201308H	0.708	48.13427	0.0979	1.202	320.98434
9/30/2013	A	1445	201308H	0.708	47.63527	0.0975	1.202	318.92923
9/30/2013	A	1444	201308H	0.708	48.54214	0.0976	1.202	324.67117
9/30/2013	A	1441	201308H	0.708	47.96892	0.0974	1.202	321.68796
9/30/2013	A	1442	201308H	0.708	48.40110	0.0977	1.202	323.58047
9/30/2013	A	1443	201308H	0.708	48.25846	0.0976	1.202	322.89697
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9/30/2013	A	1447	201308H	0.708	48.67401	0.0977	1.202	325.14767
9/30/2013	A	1451	201308H	0.708	48.63534	0.0977	1.202	325.13022
9/30/2013	A	1449	201308H	0.708	48.36340	0.0977	1.202	323.09439
9/30/2013	A	RES 100	A092464	0.708	49.20728	0.1003	1.202	320.51163
9/30/2013	A	1446	201308H	0.708	48.89685	0.0977	1.202	326.86569
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9/30/2013	A	1444	201308H	0.708	47.97972	0.0972	1.202	322.42789
9/30/2013	A	1441	201308H	0.708	48.19650	0.0974	1.202	323.00992
9/30/2013	A	1442	201308H	0.708	48.64977	0.0977	1.202	325.19797
9/30/2013	A	1443	201308H	0.708	48.08319	0.0974	1.202	322.31790
9/30/2013	A	1450	201308H	0.708	48.16452	0.0975	1.202	322.43143
9/30/2013	A	1447	201308H	0.708	48.37481	0.0975	1.202	324.11035
9/30/2013	A	1451	201308H	0.708	47.89808	0.0975	1.202	320.88446
9/30/2013	A	1449	201308H	0.708	48.00724	0.0977	1.202	320.98358
9/30/2013	A	RES 300	A094444	0.708	148.92082	0.2997	1.202	327.09525

Summary		Standard	g/dL	Ratio	Calc.	Diff
		Blank	0.000	0.00000	0.00000	0.00000
Slope	1.5134	CER 025	0.025	0.04005	0.02529	0.00029
Intercept	0.0018	CER 100	0.100	0.15270	0.09973	-0.00027
Standard Error	0.000465083	CER 200	0.200	0.30426	0.19987	-0.00013
R-Squared	1.0000	CER 400	0.400	0.60730	0.40012	0.00012

### Analytical Curve



Source:	Alcohol Countermeasure Systems, Inc.
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Lot:	201308H
Level:	0.08 g/210L
Manufacture Date:	08/27/2013
Expiration Date:	08/27/2015

Bottle	Result (g/100mL)
1446	0.0979
	0.0977
1445	0.0975
	0.0976
1444	0.0976
	0.0972
1441	0.0974
	0.0974
1442	0.0977
	0.0977
1443	0.0976
	0.0974
1450	0.0974
	0.0975
1447	0.0977
	0.0975
1451	0.0977
	0.0975
1449	0.0977
	0.0977

MEAN	0.0976
STD DEV	0.0002
MIN	0.0972
MAX	0.0979