

Test 1							
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Ethanol Concentration	Thermal Efficiency	Relative Uncertainty	CO Production %	Relative Uncertainty	CO/MJ	Relative Uncertainty	Time to Boil (s)
70	43.65%	1.91%	7.17%	5.83%	6.74	5.94%	930
80	42.83%	1.76%	7.12%	5.44%	6.82	5.51%	858
90	42.13%	1.71%	7.10%	5.38%	6.91	5.41%	708
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Test 2							
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Ethanol Concentration	Thermal Efficiency	Relative Uncertainty	CO Production %	Relative Uncertainty	CO/MJ	Relative Uncertainty	Time to Boil (s)
70	43.79%	1.82%	6.57%	6.12%	6.15	6.20%	1173
80	44.27%	1.64%	6.56%	5.65%	6.08	5.68%	819
90	42.28%	1.63%	6.56%	5.50%	6.37	5.52%	663
100	38.96%	1.56%	5.02%	3.67%	5.29	3.72%	504

Test Averages							
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Ethanol Concentration	Thermal Efficiency	Relative Uncertainty	CO Production %	Relative Uncertainty	CO/MJ	Relative Uncertainty	Time to Boil (s)
70	43.72%	1.87%	6.87%	5.98%	6.45	6.07%	1052
80	43.55%	1.70%	6.84%	5.55%	6.45	5.60%	839
90	42.21%	1.67%	6.83%	5.44%	6.64	5.47%	686
100*	38.96%	1.56%	5.02%	3.67%	5.29	3.72%	504

* Only one set of data used for 100 percent ethanol test