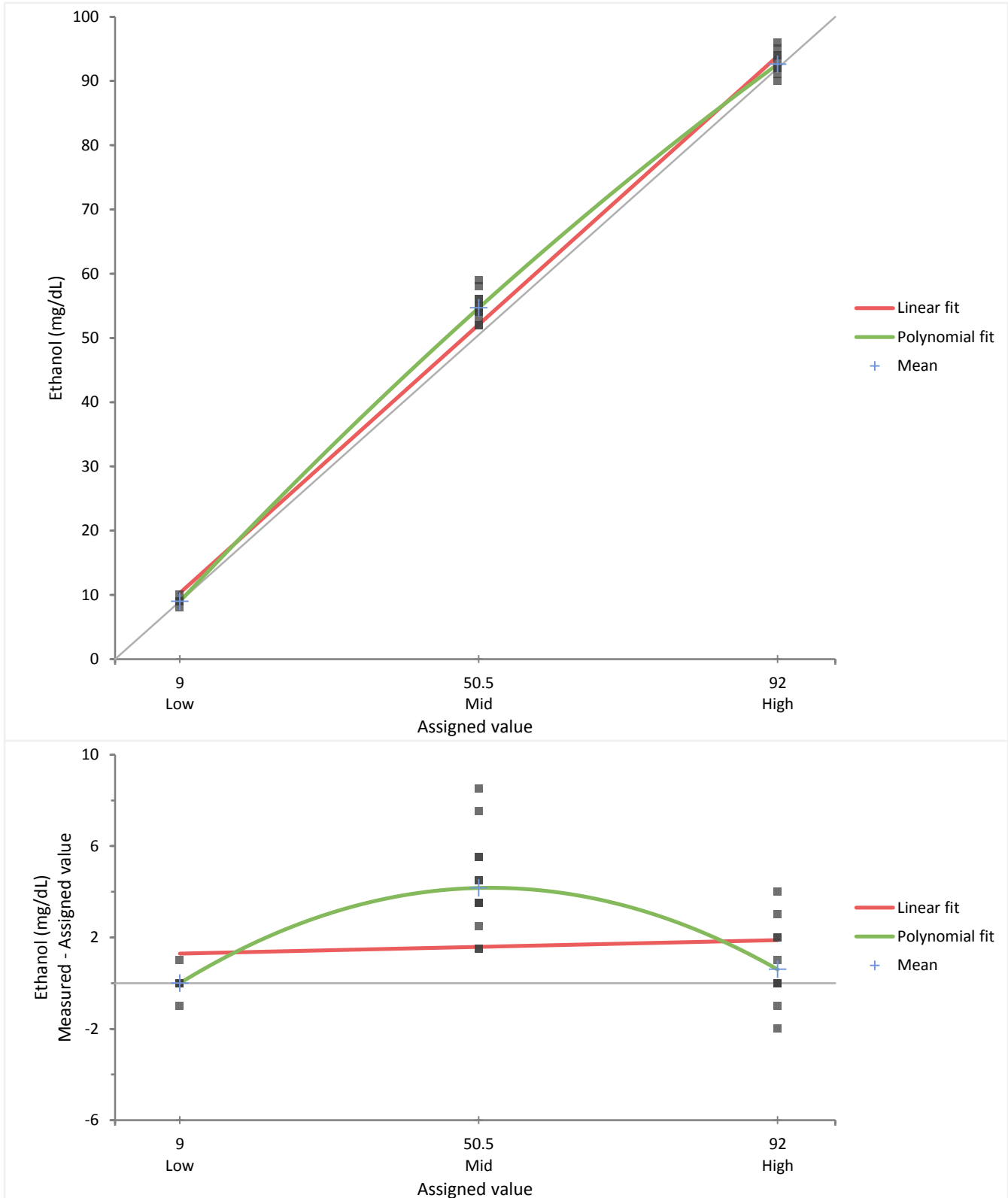


Descriptives



MSA: Ethanol

CLSI EP10-A3 - Appendix B

Last updated 30 June 2015 at 9:58 by Simon Huntington

N	45
Design	3 x 5 x 3
Measuring interval	9.0 to 92.0

Precision

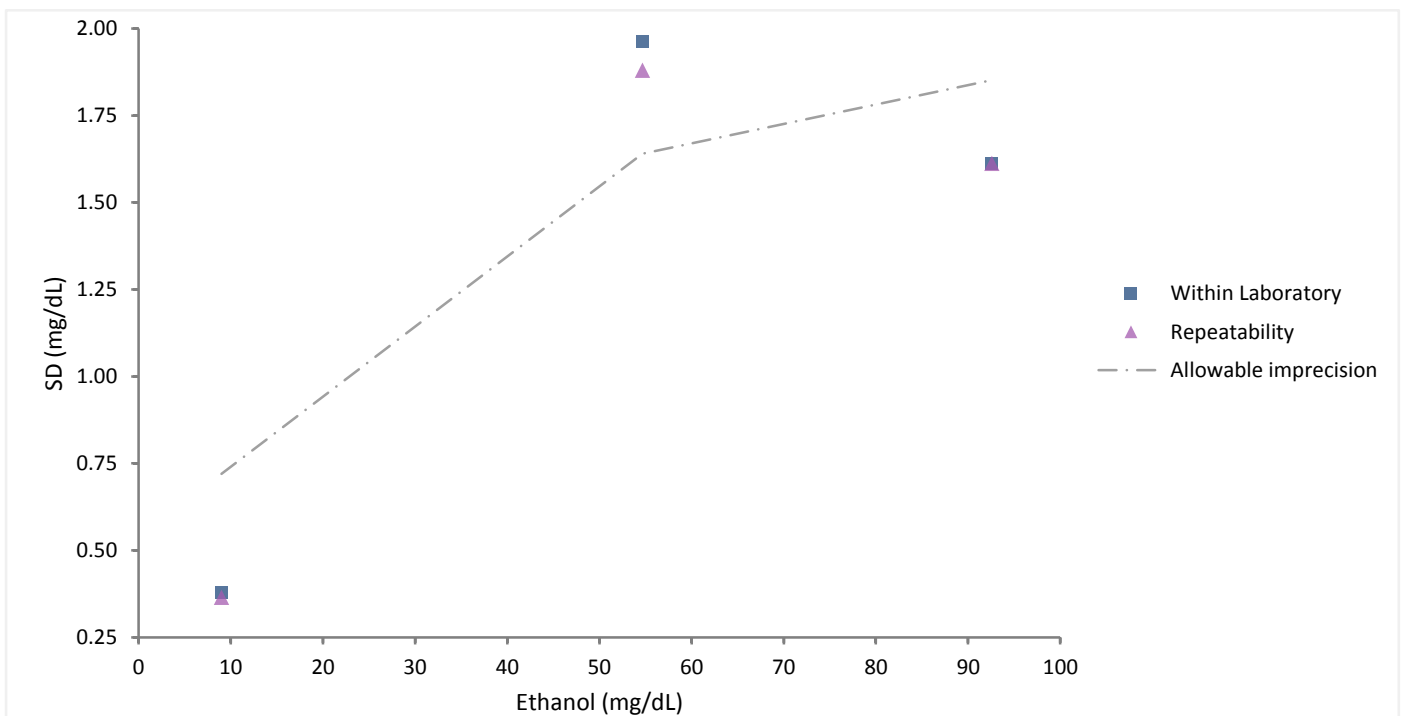
Level	Mean	SD / CV	95% CI	Allowable imprecision
Low	9.0	4.2%	3.3% to 8.5%	8.0%
Mid	54.7	3.6% *	2.8% to 7.3%	3.0%
High	92.6	1.7%	1.4% to 3.1%	2.0%

* Performance requirement not met.

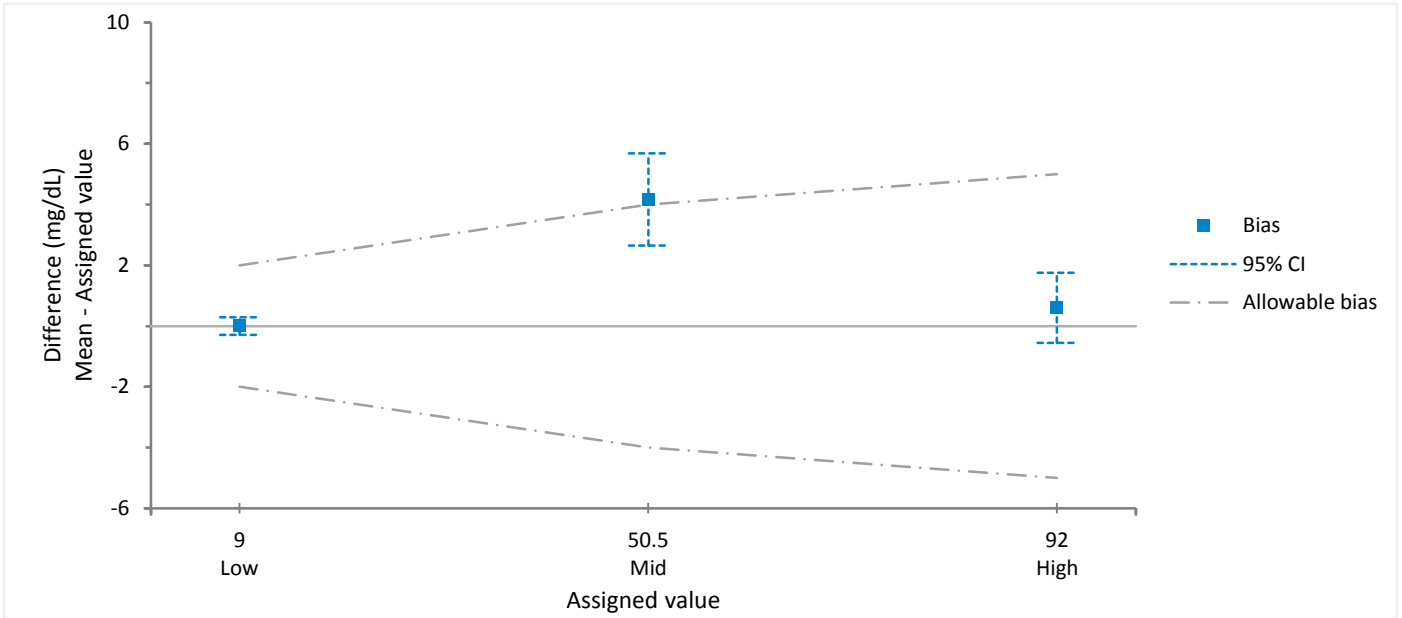
Abbreviated components

Mean	Repeatability SD	Repeatability CV	Within Laboratory SD	Within Laboratory CV
9.0	0.4	4.1%	0.4	4.2%
54.7	1.9	3.4%	2.0	3.6%
92.6	1.6	1.7%	1.6	1.7%

Profile



Trueness



Assigned value	Mean	Bias	95% CI	Allowable bias
9.0	9.0	0.0	-0.3 to 0.3	±2.0
50.5	54.7	4.2 *	2.6 to 5.7	±4.0
92.0	92.6	0.6	-0.6 to 1.8	±5.0

* Performance requirement not met.

Fit Model

Linear fit

SE | 2.4

Parameter	Estimate	SE	t	DF	p-value
Constant	1.224	0.63003	1.94	43	0.0586
X	1.007	0.010360	0.70	43	0.4891

2nd order polynomial fit

SE | 1.5

Parameter	Estimate	SE	t	DF	p-value
Constant	-1.924	0.54028	-3.56	42	0.0009
X	1.234	0.027735	8.44	42	<0.0001
X ²	-0.002245	2.6718 E-04	-8.40	42	<0.0001