Gage R&R Report

Summary Metrics

Gage R&R (%SV): 18.99%	Gage R&R (%Tol): 63.8%	ndc: 7.291

Interpretation: Acceptable

Variance Components

Source	Variance Comp.	Std. Dev.	6 * Std. Dev.	% Contribution	% Study Var	% Tolerance
Repeatability	3.976	1.994	11.96	3.169	17.8	59.82
Reproducibility: Operator	0.04193	0.2048	1.229	0.03342	1.828	6.143
Reproducibility: Instrument	0.2644	0.5142	3.085	0.2107	4.59	15.43
Reproducibility: Sample:Operator	0	0	0	0	0	0
Reproducibility: Sample:Instrument	0	0	0	0	0	0
Reproducibility: Operator:Instrument	0	0	0	0	0	0
Reproducibility: Sample:Operator:Instrument	0.2414	0.4913	2.948	0.1924	4.386	14.74
Gage R&R	4.523	2.127	12.76	3.605	18.99	63.8
Part-to-Part (Sample)	120.9	11	65.98	96.39	98.18	329.9
Total Variation	125.5	11.2	67.21	100	100	336

Most Impactful Factor: The results are primarily driven by Part-to-Part Variation (96.4%). This is the desired outcome, indicating the measurement system can effectively distinguish between different parts.

Breakdown of Measurement Error:

- Repeatability is the dominant source (3.2% vs 0.4%). Suggests issues with the gage/equipment or method consistency.

ANOVA Table

Source	DF	Sum of Sq.	Mean Sq.	F-Value	P-Value
Sample	4	8707	2177	N/A	N/A
Operator	2	3.5	1.75	3.556	0.9259
Instrument	1	13.23	13.23	9.956	0.6291
Sample:Operator	8	14.94	1.868	0.3974	0.8933
Sample:Instrument	4	10.82	2.704	0.5754	0.6887
Operator:Instrument	2	6.648	3.324	0.7073	0.5214
Sample:Operator:Instrument	8	37.6	4.7	1.182	0.3249
Residual	60	238.5	3.976	N/A	N/A

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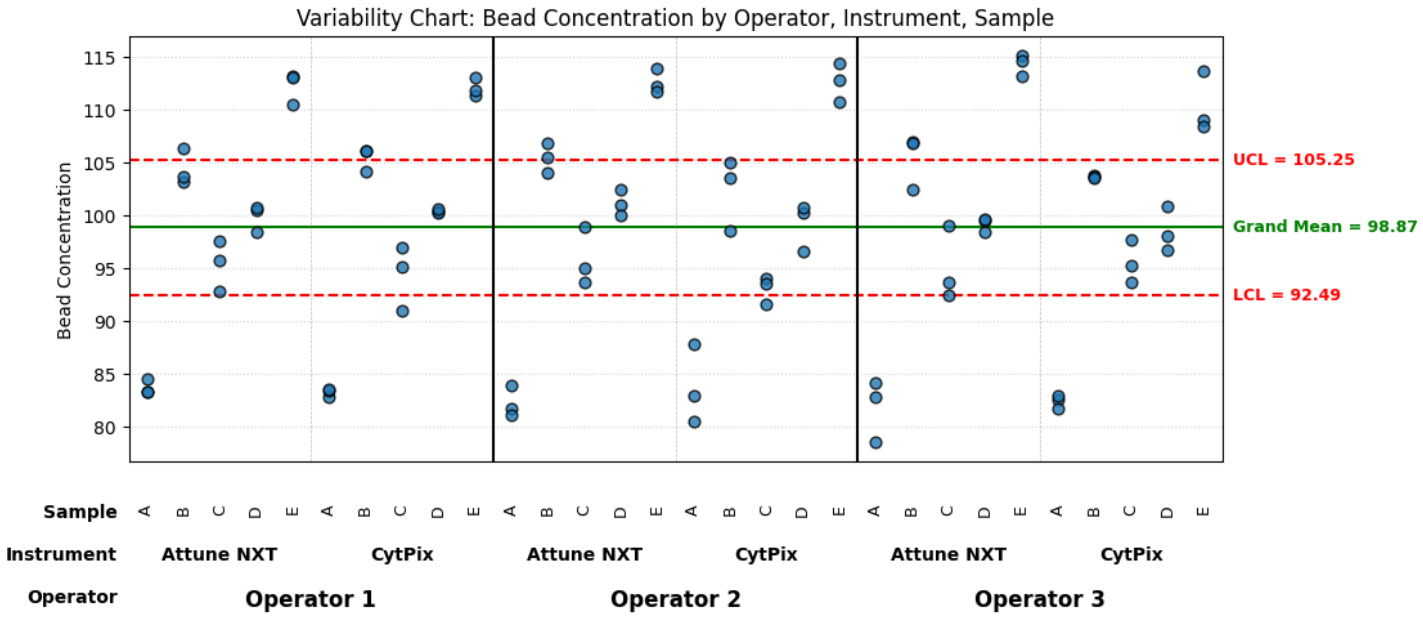
Charts



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