

Linearity report q

Data Files:

Date:

Time:

Linearity.jmpFriday, January 19, 202417:07:09

Data Integrity

Study	
descriptives	Note
Analyst	ujk
Analytical method	q
Instrument	ery
Purpose	qre
Standard Expiry	7576
Standard ID	y
Study date(s)	y
Unit	

Limit	Specification
USL	130
LSL	70

Method Attribute	Criteria (%)
	of tolerance
Accuracy	20
Repeatability	60
IP	70
Upper Linearity Limit	120
Lower Linearity Limit	80

User Information

User Name: paule

Computer Name: PADC-SURFACE

Logon Server: \\PADC-SURFACE

User Domain: PADC-SURFACE

Addin version: 2306131702

JMP Version: 17.2.0

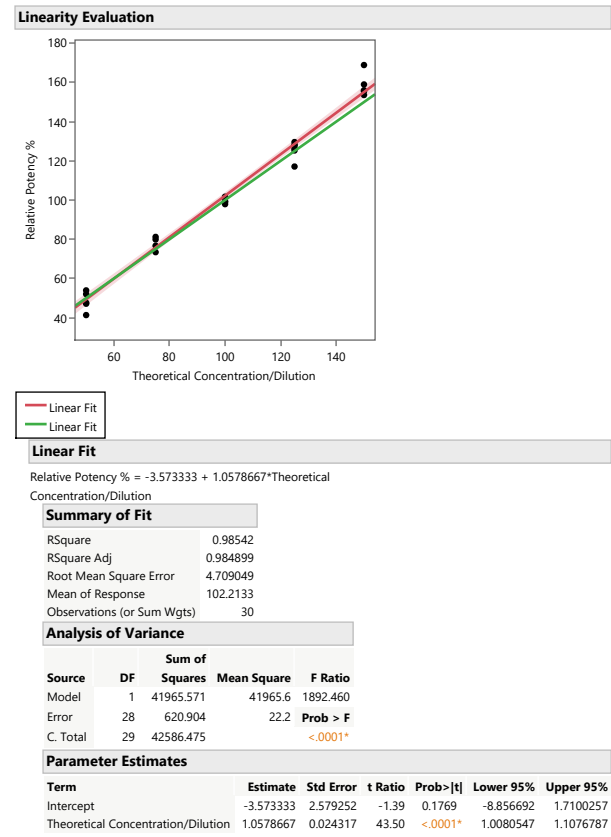
Analyst Signature/Date

Reviewer Signature/Date

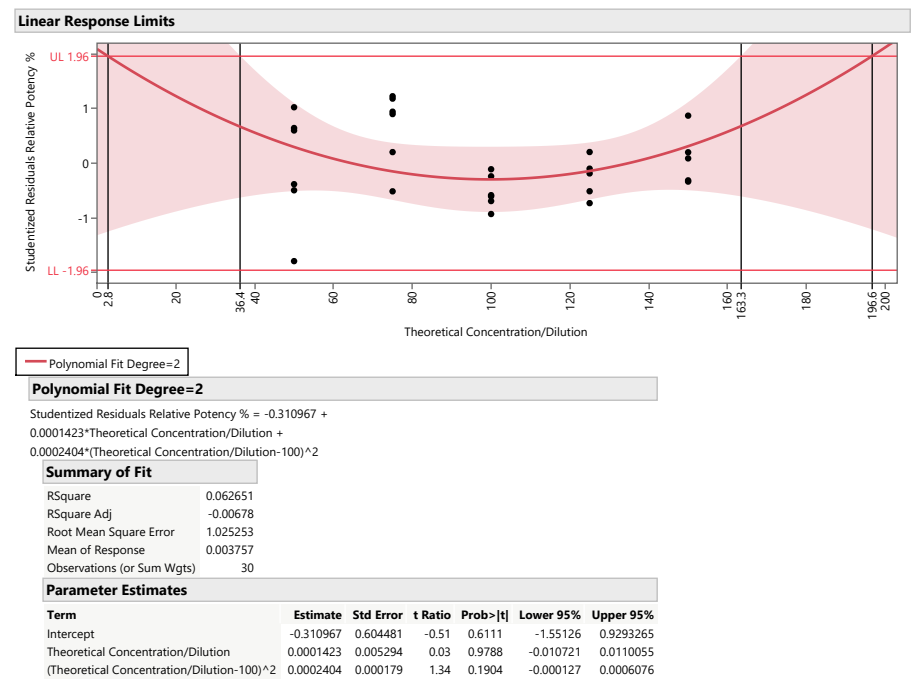
Linearity - Data table

Theoretical		Day	Analyst	Instrument	Relative	Accuracy/
Concentration/Dilution					Potency %	Bias
150	D1	A1	I2		153.6	3.60
50	D1	A2	I2		47.1	-2.90
150	D2	A2	I1		156	6.00
125	D2	A1	I2		128.2	3.20
50	D1	A1	I1		52	2.00
50	D1	A1	I1		47.6	-2.40
100	D2	A2	I2		97.9	-2.10
75	D2	A2	I1		76.7	1.70
75	D1	A1	I2		79.9	4.90
100	D1	A1	I1		99.5	-0.50
100	D1	A1	I1		99.4	-0.60
150	D1	A1	I2		153.7	3.70
50	D2	A1	I2		41.3	-8.70
100	D2	A2	I2		99	-1.00
150	D1	A2	I1		168.9	18.90
125	D2	A1	I1		129.6	4.60
125	D2	A1	I1		127.8	2.80
150	D2	A1	I2		155.5	5.50
75	D1	A2	I2		80.1	5.10
50	D2	A2	I1		53.9	3.90
100	D2	A2	I2		101.7	1.70
75	D2	A1	I2		73.4	-1.60
150	D2	A2	I1		159	9.00
125	D1	A2	I1		117.1	-7.90
75	D2	A1	I1		81.2	6.20
75	D1	A2	I1		81.4	6.40
50	D2	A2	I2		52.2	2.20
125	D1	A2	I2		126.3	1.30
100	D1	A1	I1		101.1	1.10
125	D1	A2	I2		125.3	0.30

Linearity - Linearity Evaluation



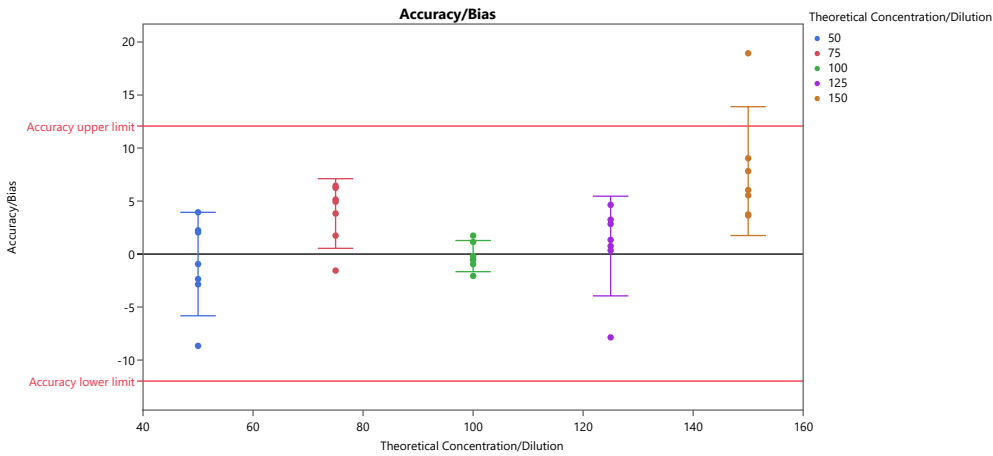
Linearity - Range of Linearity



Linearity Limits							
Curve	Lower		Upper		Upper		Results
	Acceptance Limit	Spec Limit	Concentration	Concentration	Spec Limit	Acceptance Limit	
Quadratic	56.0	70	2.8	196.6	130	156.0	Pass Linearity Criterion
95% Confidence Interval	56.0	70	36.4	163.3	130	156.0	Pass Linearity Criterion

If concentration is calculated as below 0, report shows 0.
LSL = 70, USL = 130, Lower Linearity Limit = 80, Upper Linearity Limit = 120, Lower Acceptance Limit = 56, Upper Acceptance Limit = 156

Linearity - Bias/Accuracy



Theoretical Concentration/Dilution	Number	Accuracy/Bias	Bias Lower 95%	Bias Upper 95%	Bias % of Accuracy Tolerance	Evaluation
50	6	-0.98	-5.86	3.90	1.64	Pass
75	6	3.78	0.50	7.07	6.31	Pass
100	6	-0.23	-1.70	1.24	0.39	Pass
125	6	0.72	-3.98	5.42	1.19	Pass
150	6	7.78	1.71	13.86	12.97	Pass

Bias Acceptance Criterion: 20

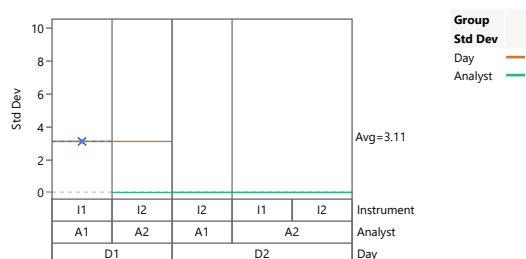
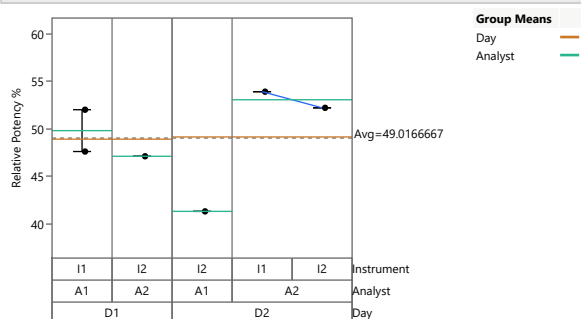
Partition of Variation, Intermediate Precision

Theoretical Concentration-Dilution=50

Variability Gauge

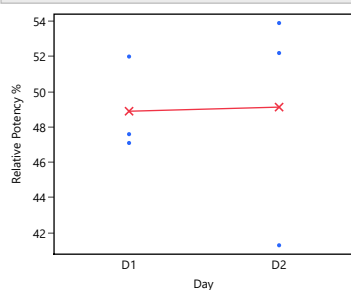
Variability Gauge Analysis for Relative Potency %

Variability Chart for Relative Potency %

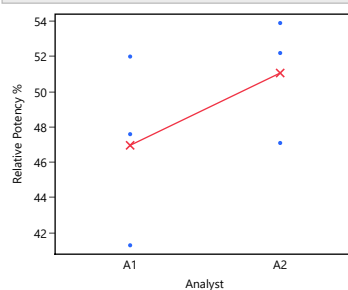


Gauge R&R Mean Plots

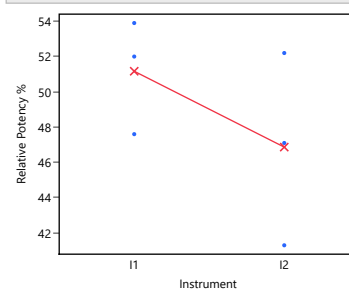
Mean of Relative Potency % by Day



Mean of Relative Potency % by Analyst

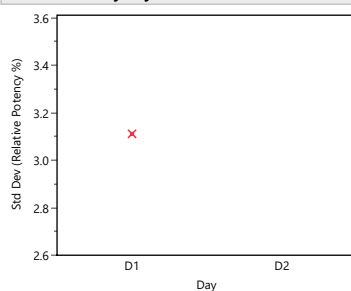


Mean of Relative Potency % by Instrument

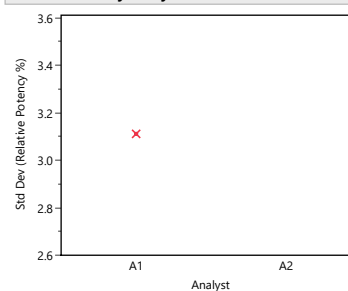


Gauge R&R Std Dev Plots

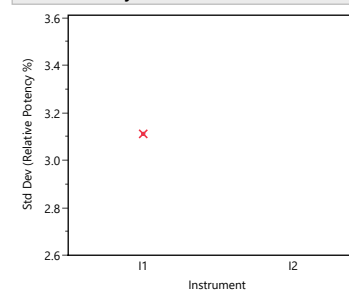
Mean Std Dev by Day



Mean Std Dev by Analyst



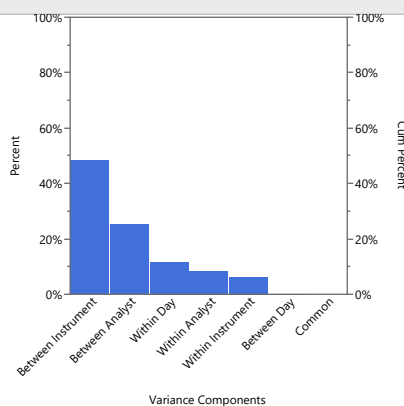
Mean Std Dev by Instrument

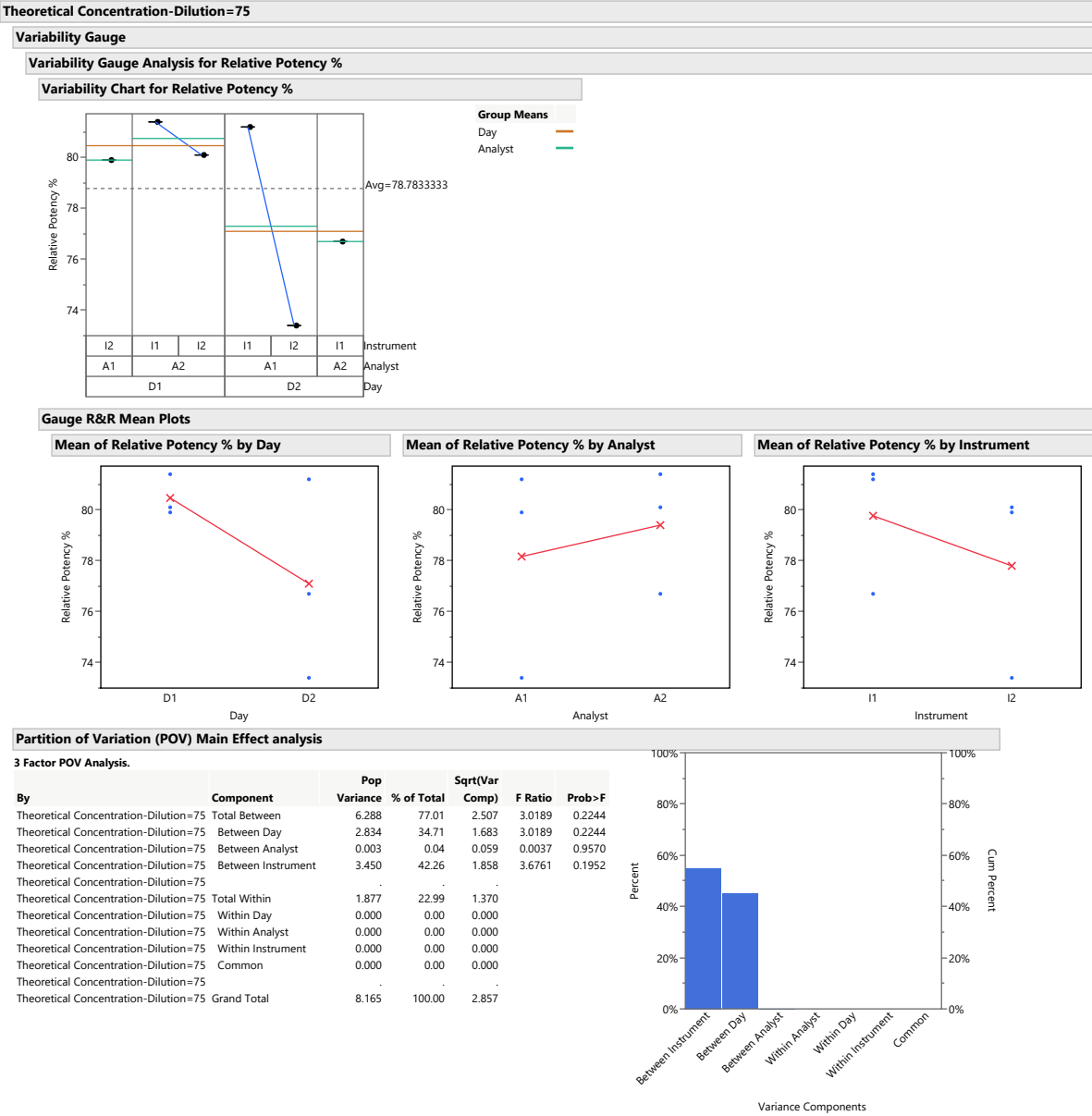


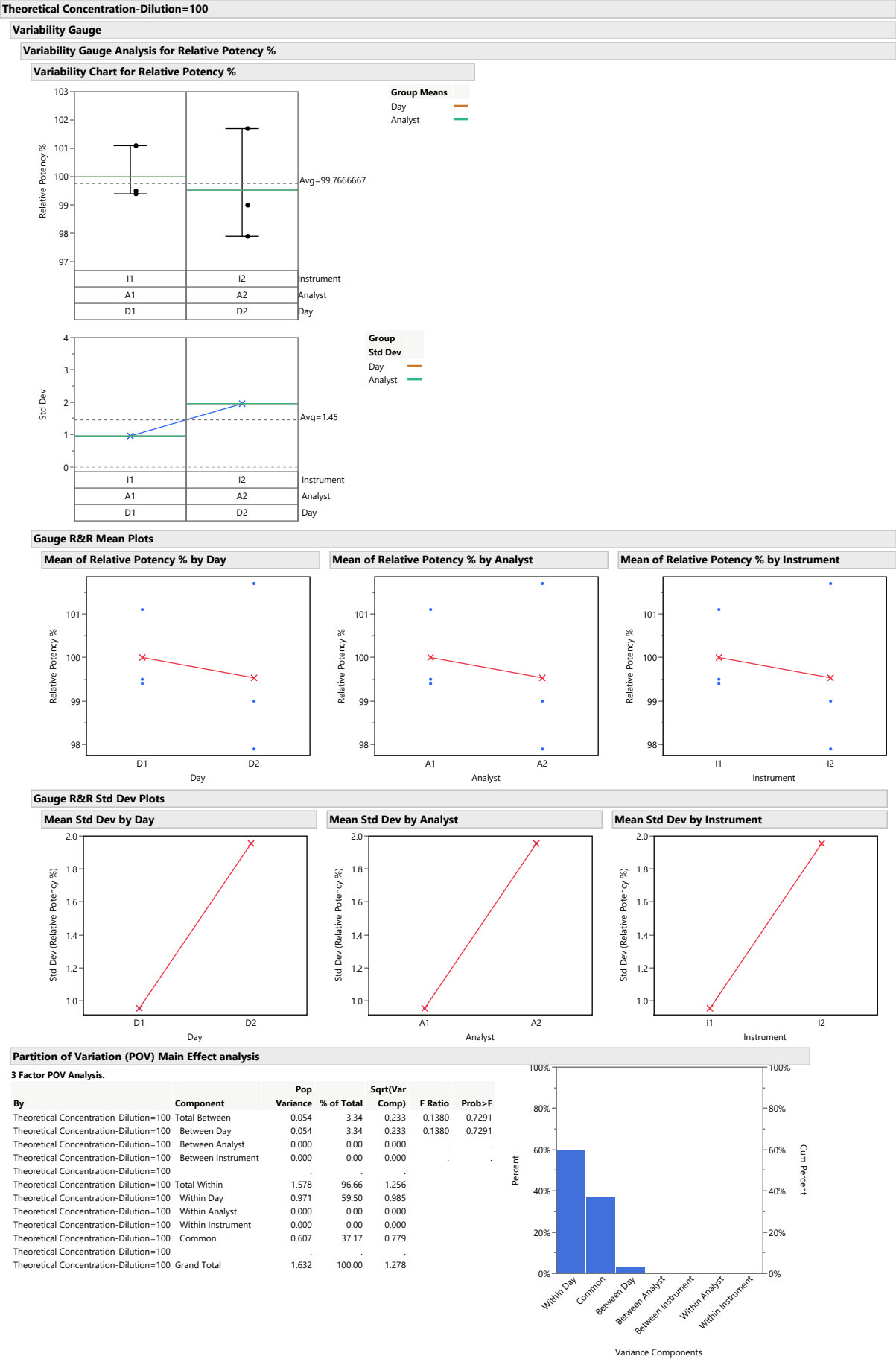
Partition of Variation (POV) Main Effect analysis

3 Factor POV Analysis.

By	Component	Pop Variance	% of Total	Sqrt(Var Comp)	F Ratio	Prob>F
Theoretical Concentration-Dilution=50	Total Between	13.258	73.58	3.641	0.0057	0.9466
Theoretical Concentration-Dilution=50	Between Day	0.014	0.08	0.117	0.0057	0.9466
Theoretical Concentration-Dilution=50	Between Analyst	4.550	25.25	2.133	1.9117	0.3009
Theoretical Concentration-Dilution=50	Between Instrument	8.694	48.25	2.949	3.6528	0.1961
Theoretical Concentration-Dilution=50	Total Within	4.760	26.42	2.182		
Theoretical Concentration-Dilution=50	Within Day	2.116	11.74	1.455		
Theoretical Concentration-Dilution=50	Within Analyst	1.511	8.39	1.229		
Theoretical Concentration-Dilution=50	Within Instrument	1.133	6.29	1.065		
Theoretical Concentration-Dilution=50	Common	0.000	0.00	0.000		
Theoretical Concentration-Dilution=50	Grand Total	18.018	100.00	4.245		



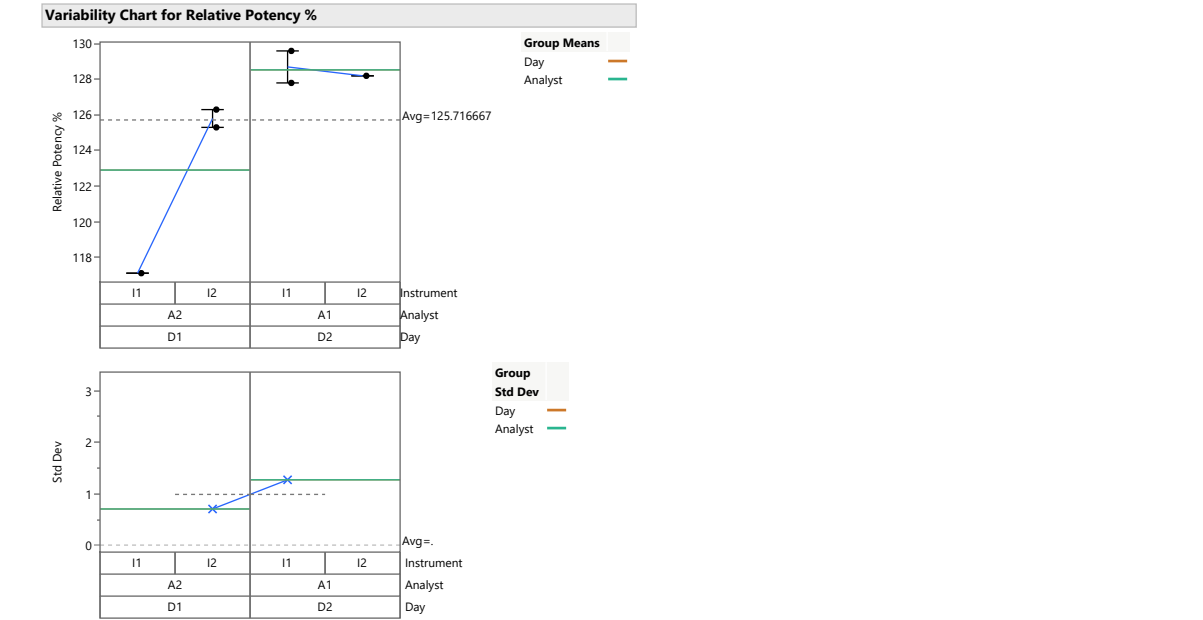




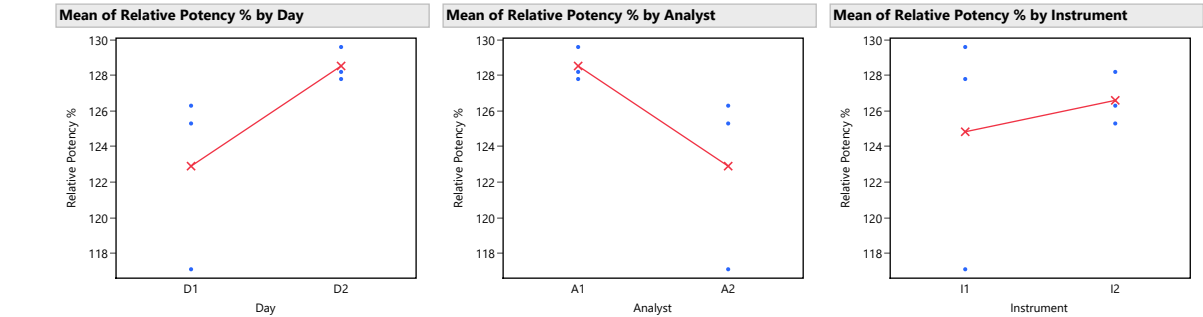
Theoretical Concentration-Dilution=125

Variability Gauge

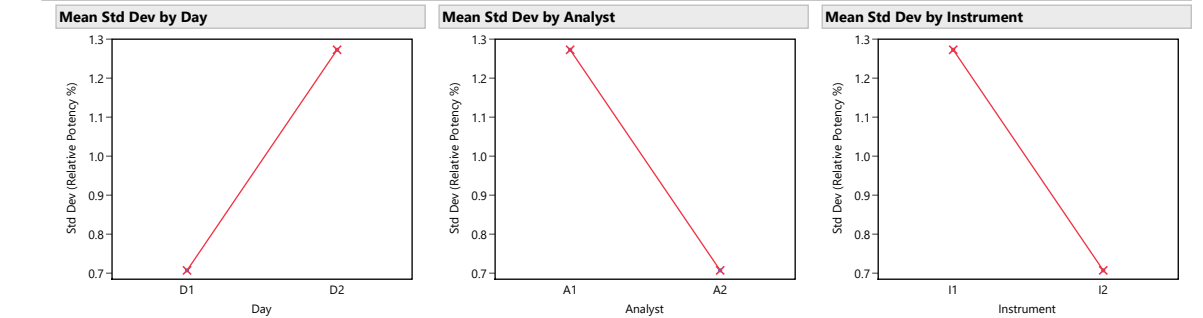
Variability Gauge Analysis for Relative Potency %



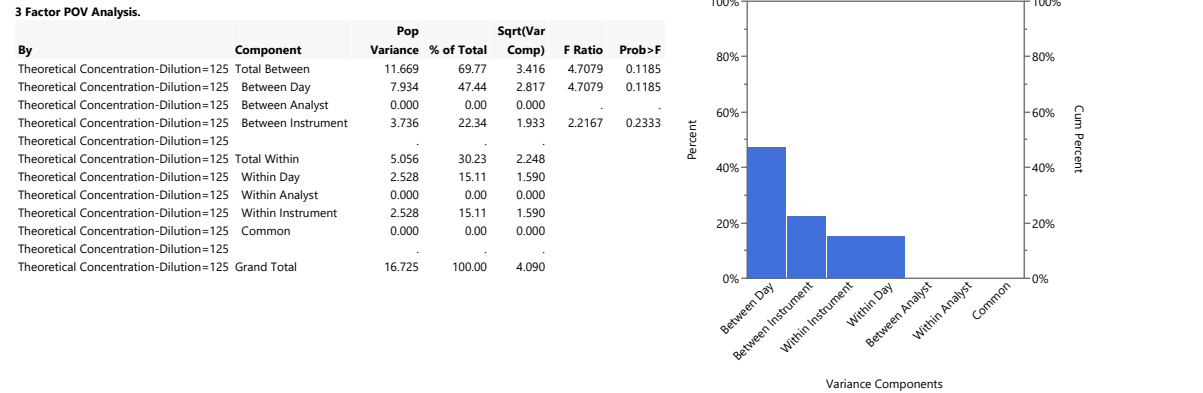
Gauge R&R Mean Plots

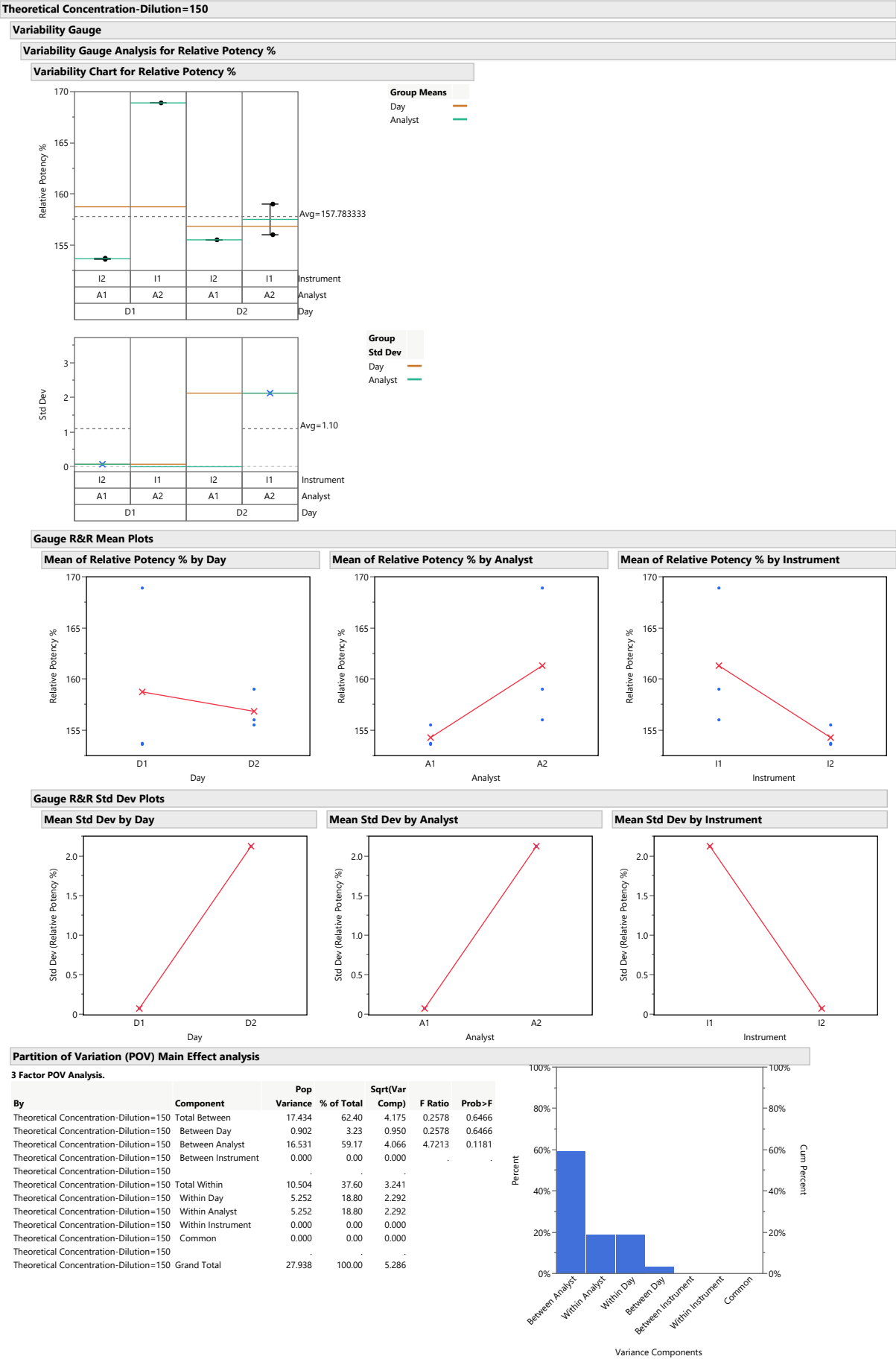


Gauge R&R Std Dev Plots



Partition of Variation (POV) Main Effect analysis





Linearity - Repeatability and Intermediate Precision

Theoretical Concentration/Dilution	Number	Between Day	Between Analyst	Between Instrument	Repeatability (%)	Repeatability Upper 95% CL	Repeatability Lower 95% CL	Repeatability % of Tolerance (n=1)	Repeatability % of Tolerance (n=3)	Repeatability % Pass/Fail (n=1)	Repeatability % Pass/Fail (n=3)
50	6	0.117	2.133	2.949	2.182	5.351	1.362	18.7	10.8	Pass	Pass
75	6	1.683	0.059	1.858	1.370	3.360	0.855	11.8	6.8	Pass	Pass
100	6	0.233	0.000	0.000	1.256	3.081	0.784	10.8	6.2	Pass	Pass
125	6	2.817	0.000	1.933	2.248	5.515	1.404	19.3	11.1	Pass	Pass
150	6	0.950	4.066	0.000	3.241	7.949	2.023	27.8	16.1	Pass	Pass

Theoretical Concentration/Dilution	Number	Between Day	Between Analyst	Between Instrument	Intermediate Precision (%)	IP Upper 95% CL	IP Lower 95% CL	IP % of Tolerance (n=1)	IP % of Tolerance (n=3)	Intermediate Precision Pass/Fail (n=1)	Intermediate Precision Pass/Fail (n=3)
50	6	0.117	2.133	2.949	4.245	10.411	2.650	36.4	21	Pass	Pass
75	6	1.683	0.059	1.858	2.857	7.008	1.784	24.5	14.2	Pass	Pass
100	6	0.233	0.000	0.000	1.278	3.133	0.797	11	6.3	Pass	Pass
125	6	2.817	0.000	1.933	4.090	10.030	2.553	35.1	20.3	Pass	Pass
150	6	0.950	4.066	0.000	5.286	12.964	3.299	45.4	26.2	Pass	Pass

Repeatability acceptance criterion: 60

Report Summary

Range of linearity

Curve	Lower Concentration	Upper Concentration	Results
Quadratic	2.8	196.6	Pass Linearity Criterion
95% Confidence Interval	36.4	163.3	Pass Linearity Criterion

Bias/Accuracy

Theoretical Concentration/Dilution	Bias % of Tolerance	Accuracy Evaluation
50	1.64	Pass
75	6.31	Pass
100	0.39	Pass
125	1.19	Pass
150	12.97	Pass

Repeatability and Intermediate Precision

Theoretical Concentration/Dilution	Repeatability % of Tolerance (n=1)	IP % of Tolerance (n=1)	Repeatability % of Tolerance (n=3)	IP % of Tolerance (n=3)	Repeatability Pass/Fail (n=1)	Repeatability Pass/Fail (n=3)	Intermediate Precision Pass/Fail (n=1)	Intermediate Precision Pass/Fail (n=3)
50	18.7	36.4	10.8	21	Pass	Pass	Pass	Pass
75	11.8	24.5	6.8	14.2	Pass	Pass	Pass	Pass
100	10.8	11	6.2	6.3	Pass	Pass	Pass	Pass
125	19.3	35.1	11.1	20.3	Pass	Pass	Pass	Pass
150	27.8	45.4	16.1	26.2	Pass	Pass	Pass	Pass

Assay Range

Curve	Sample Size (n)	Reported Range
Quadratic	1	50 - 150
Quadratic	3	50 - 150
95% Confidence Interval	1	50 - 150
95% Confidence Interval	3	50 - 150

Report generated on 2024-01-19 17:07:09, Addin Version: 2306131702