

Low Level Leucocyte Enumeration Programme

Distribution - 202106 Sample - RBC676 Participant ID -
Date Issued - 11 February 2021 Closing Date - 03 March 2021 Machine Used - FACSCanto II

Trial Comments

This exercise was issued to 117 participants. This is the final version of the report.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of filtered blood from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1	0.44	0.78	0.24

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1	-1.42	Satisfactory	12	0	0

*z Score Limits Definitions

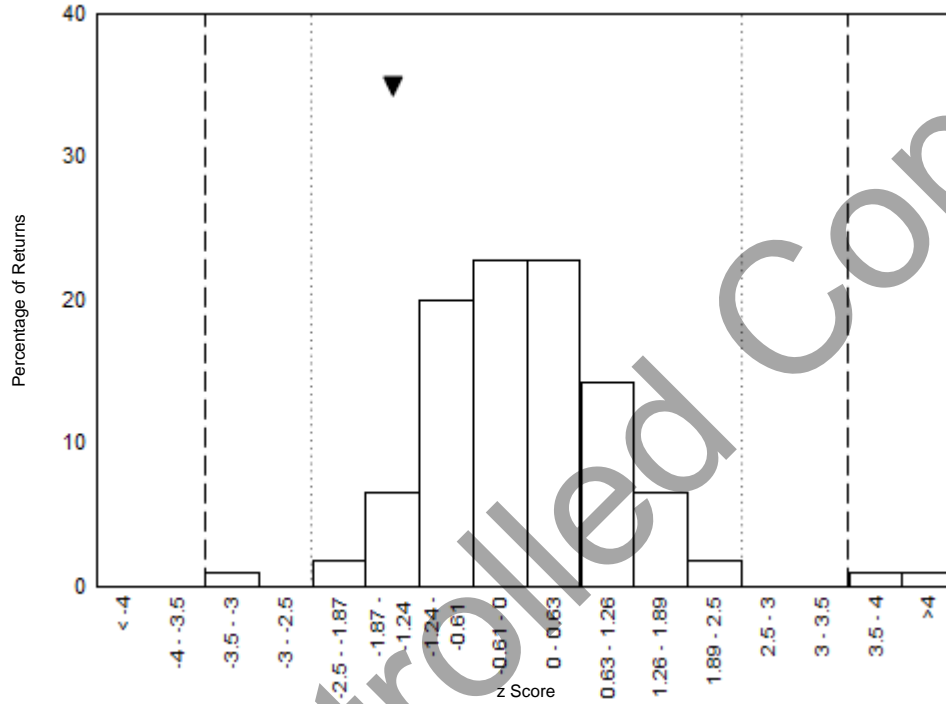
Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.



Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1
Please note ▼ denotes your result



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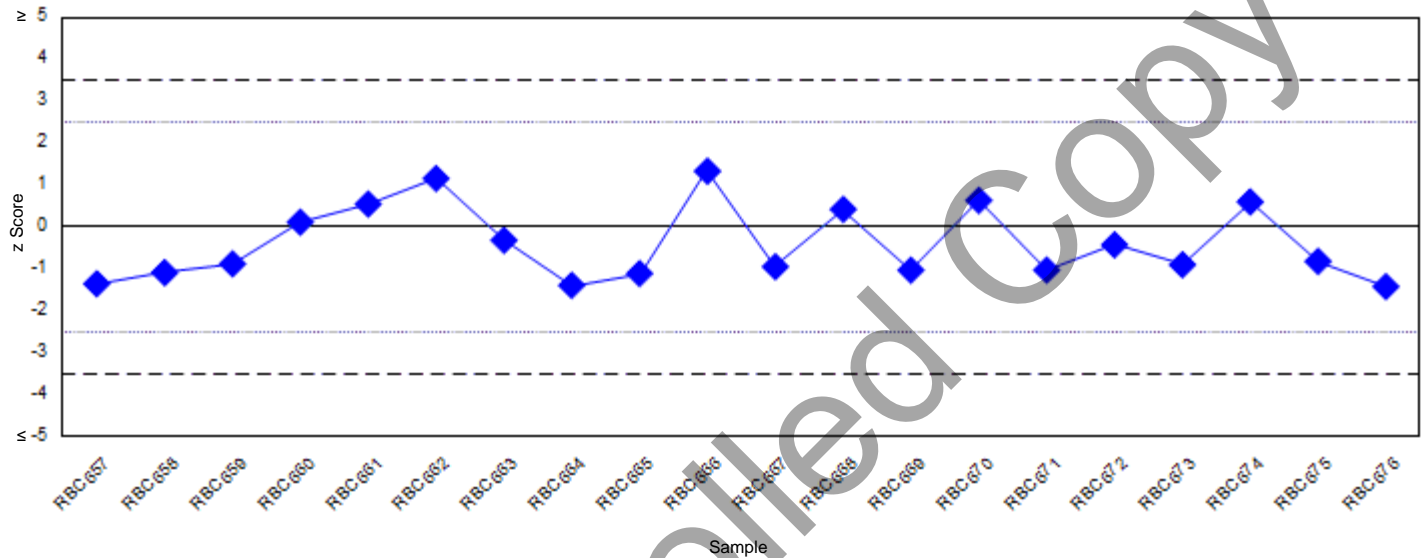
Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)



Absolute Values (cells/ μ L) - Machine 1

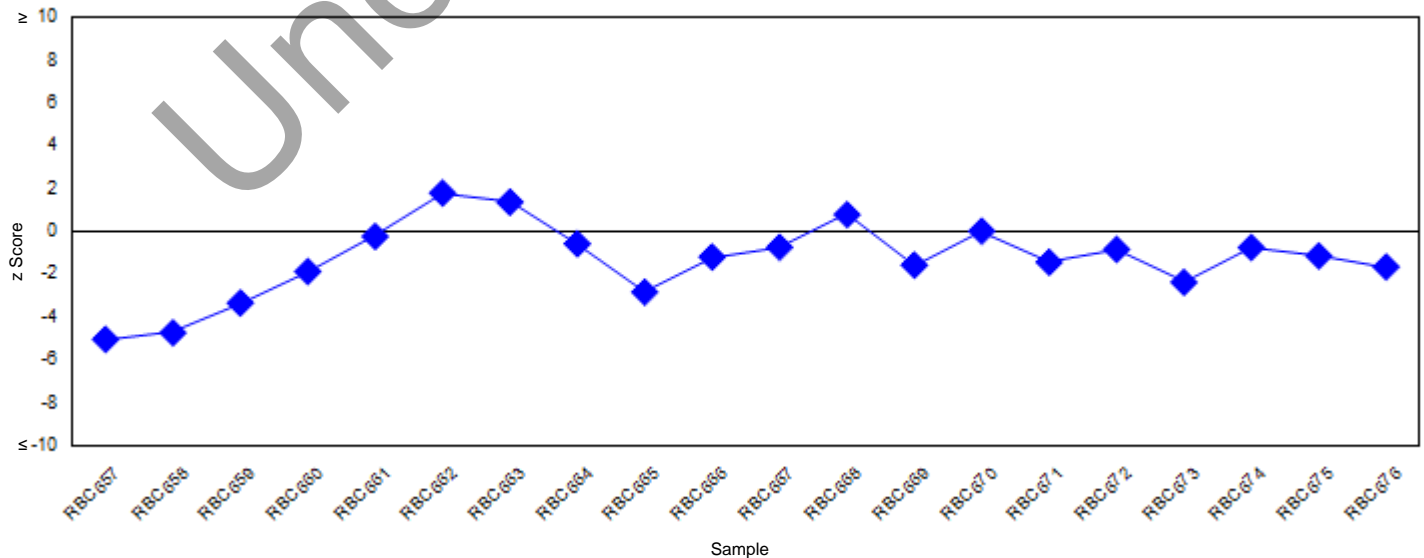


Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)



Absolute Values (cells/ μ L) - Machine 1



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	0.77	0.23



Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	36	0.79	0.24
Navios	20	0.68	0.14



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Sample Comments

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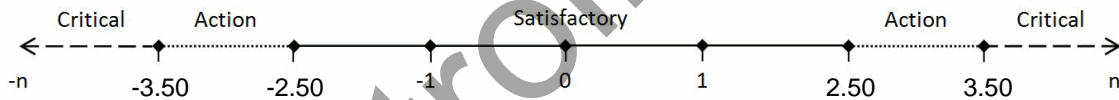
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1	8.55	8.72	0.93

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1	-0.18	Satisfactory	11	1	0

*z Score Limits Definitions

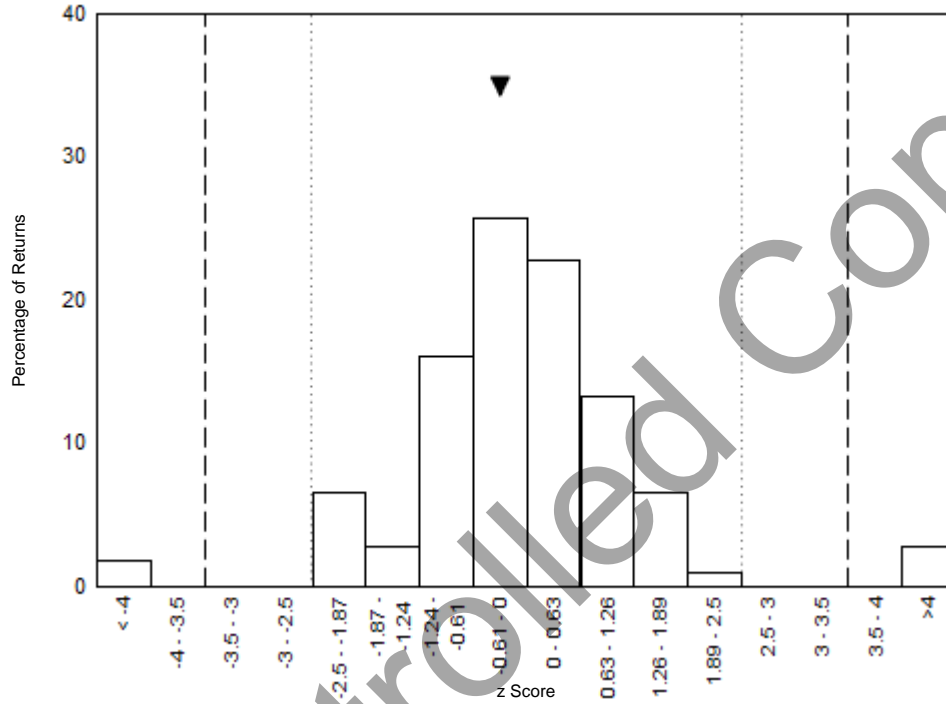
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Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1
Please note ▼ denotes your result

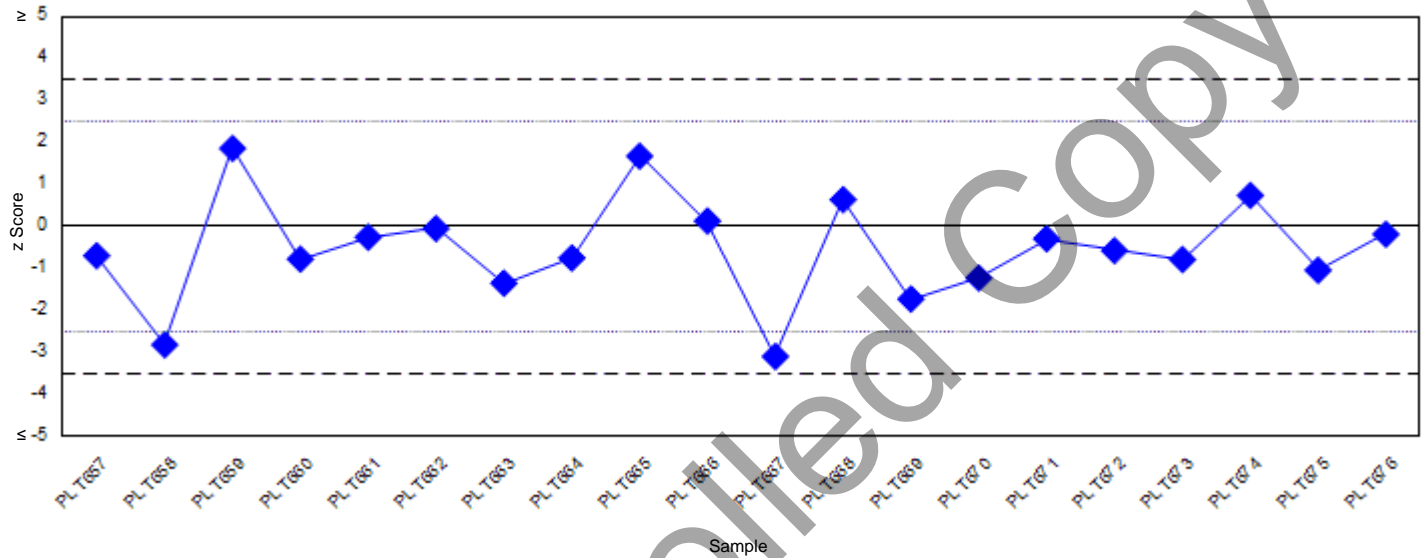


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Shewhart Control Charts

(Please note each data point represents a single sample)

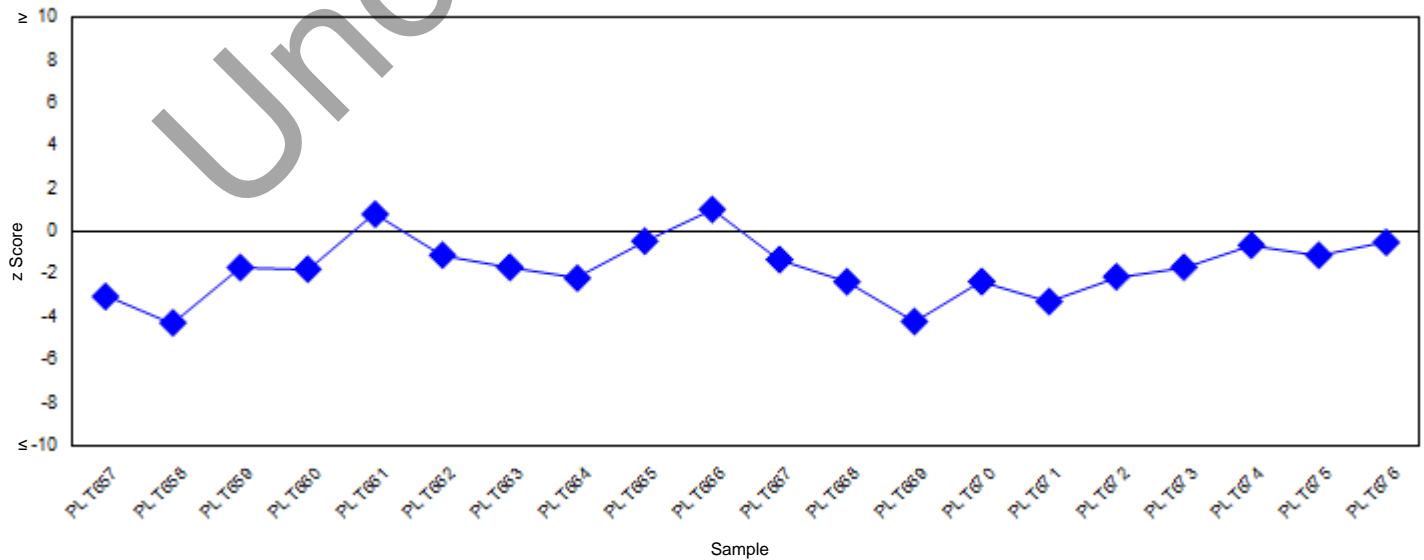
Absolute Values (cells/ μ L) - Machine 1



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	8.66	0.79

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	36	8.52	0.77
Navios	20	8.56	0.83

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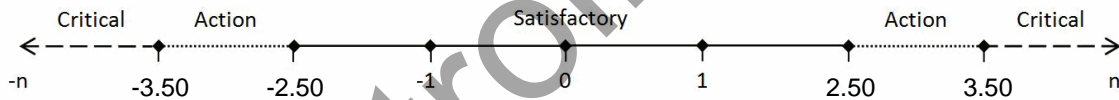
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1	13.46	11.78	1.36

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1	1.24	Satisfactory	12	0	0

*z Score Limits Definitions

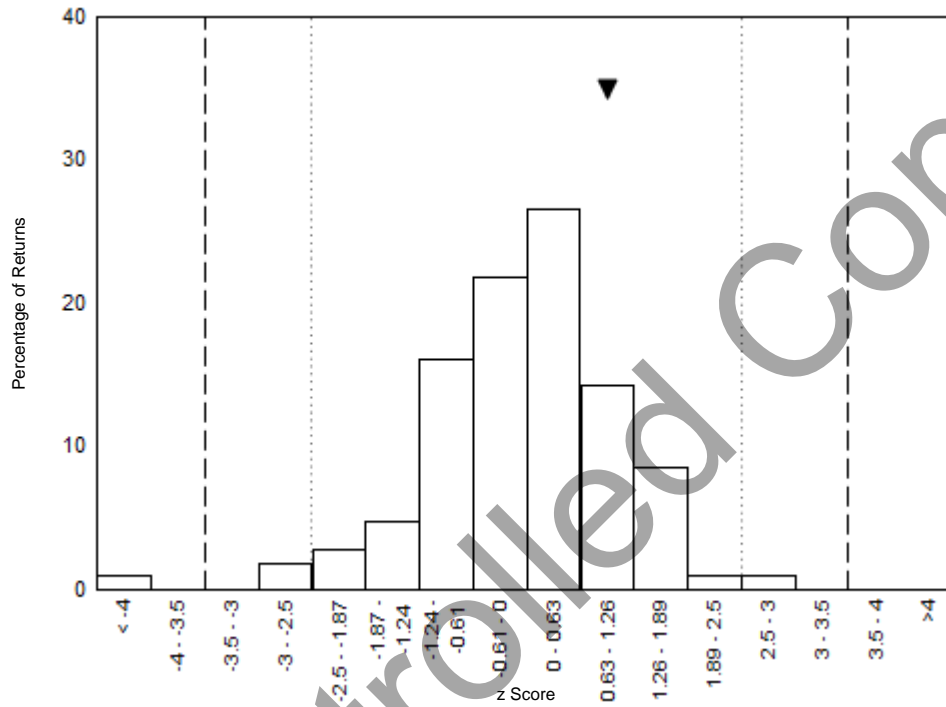
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Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1
Please note ▼ denotes your result



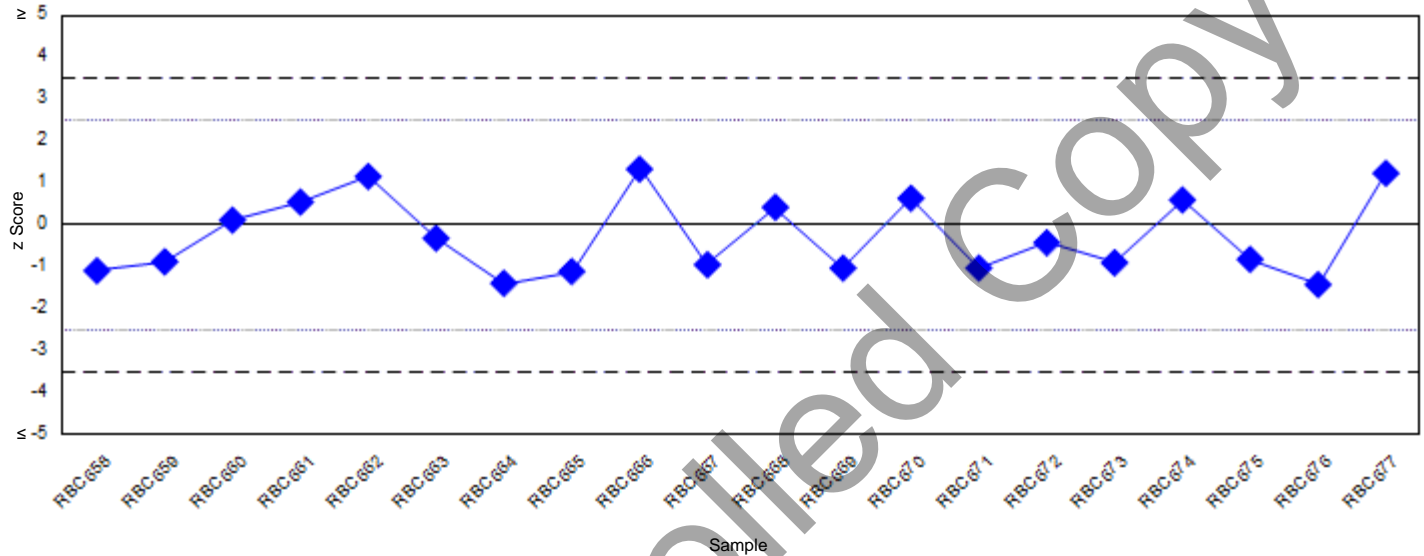
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Shewhart Control Charts

(Please note each data point represents a single sample)

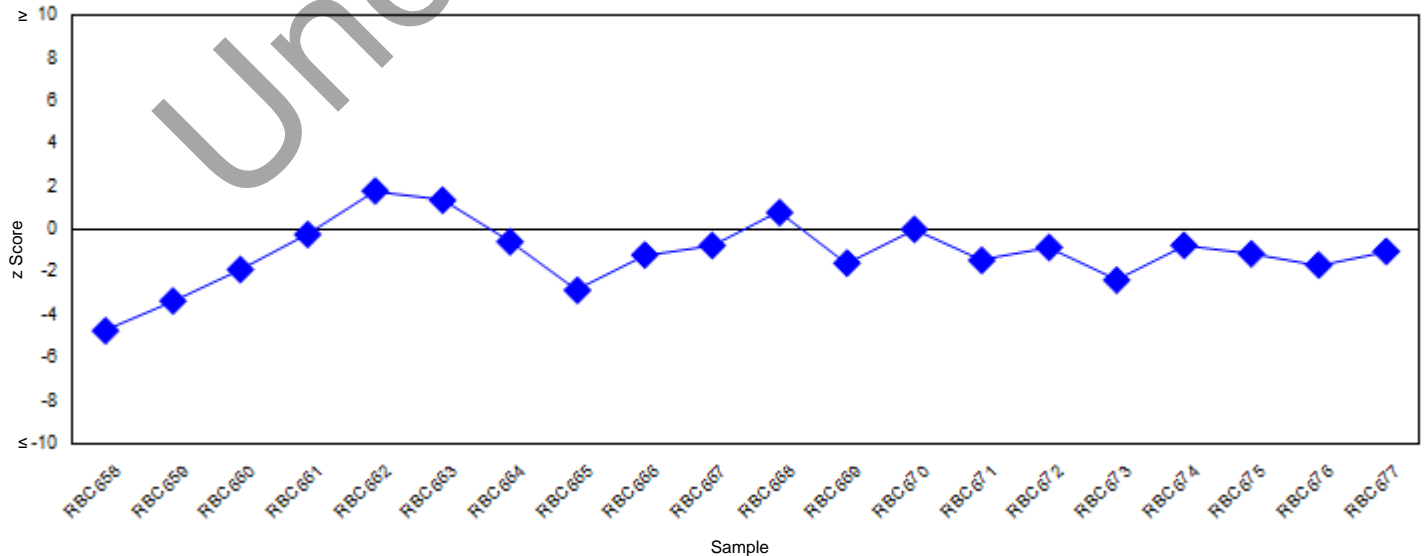
Absolute Values (cells/ μ L) - Machine 1



Cusum Control Charts

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Absolute Values (cells/ μ L) - Machine 1



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Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	11.92	1.15

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	36	11.95	1.22
Navios	20	11.83	1.34

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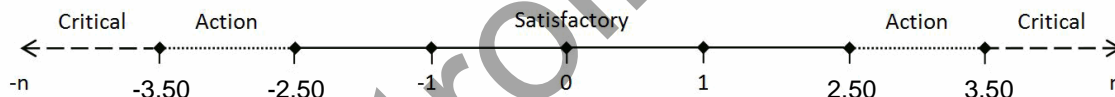
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1	15.41	16.32	1.74

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1	-0.52	Satisfactory	11	1	0

*z Score Limits Definitions

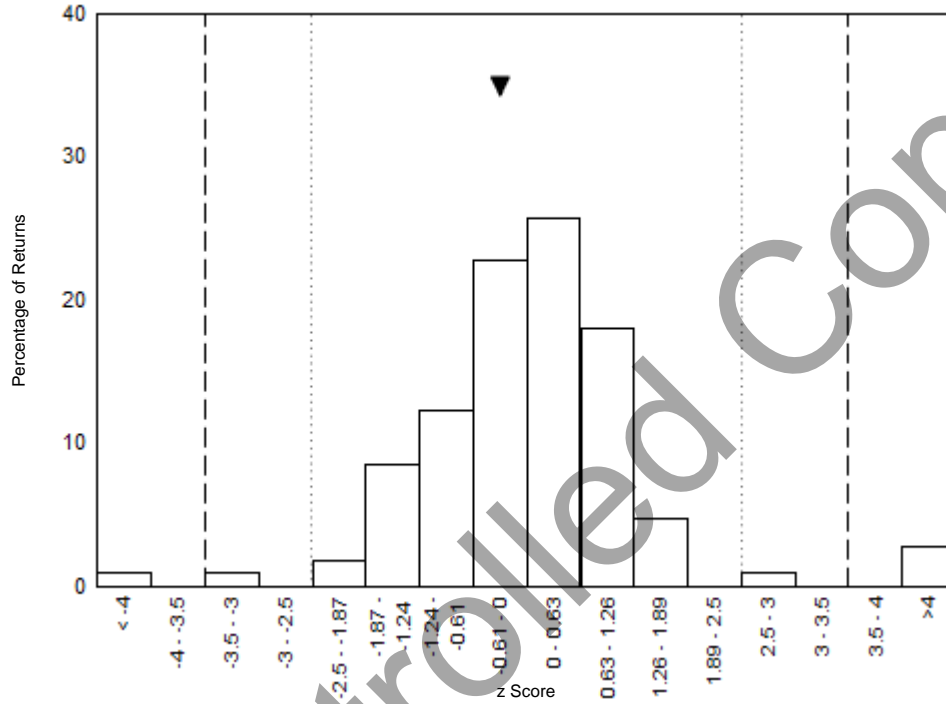
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Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1
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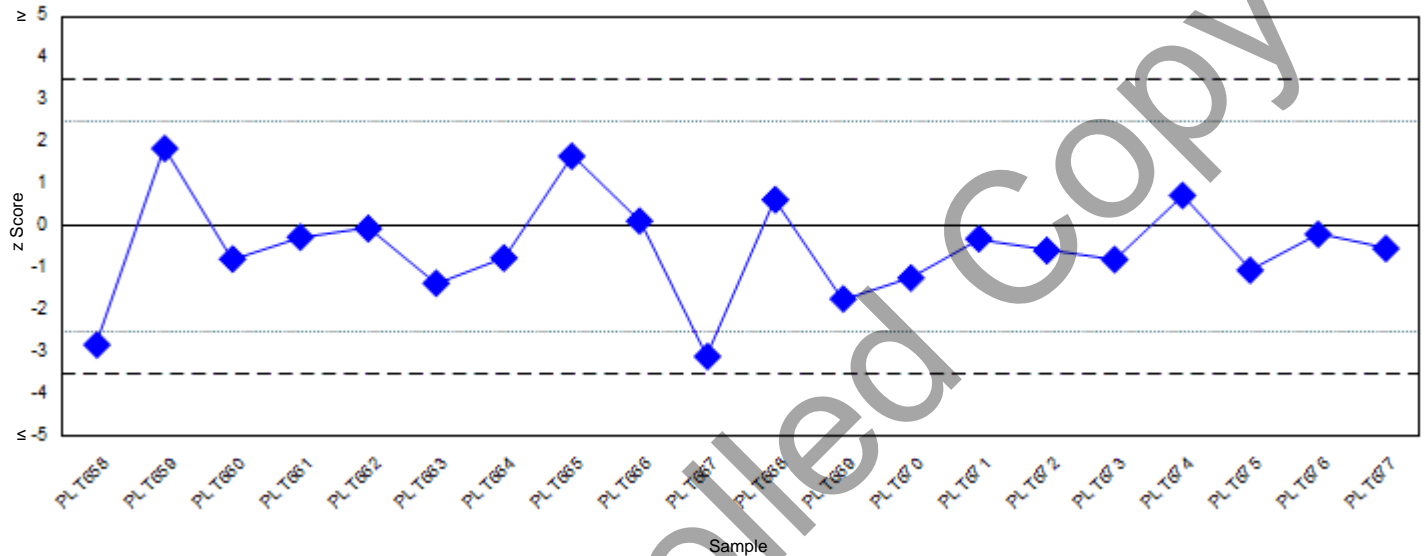
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Shewhart Control Charts

(Please note each data point represents a single sample)

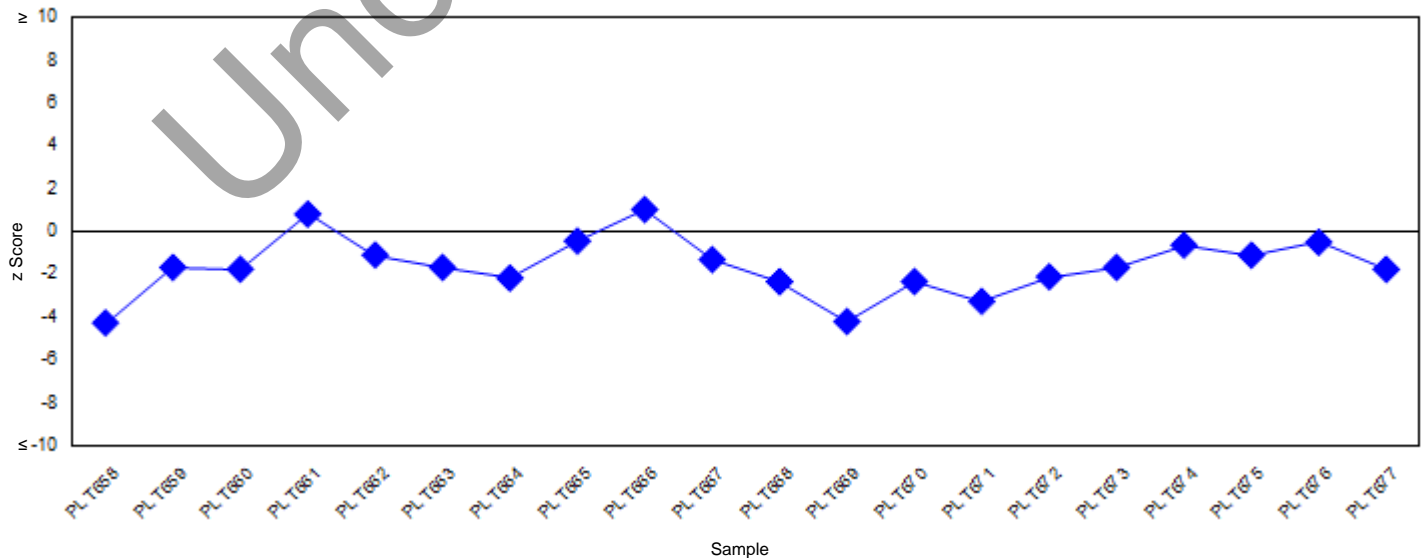
Absolute Values (cells/ μ L) - Machine 1



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1



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Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	16.49	1.51

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	36	16.13	1.82
Navios	20	15.83	1.68

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Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1	8.75	8.80	1.44

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1	-0.03	Satisfactory	12	0	0

*z Score Limits Definitions

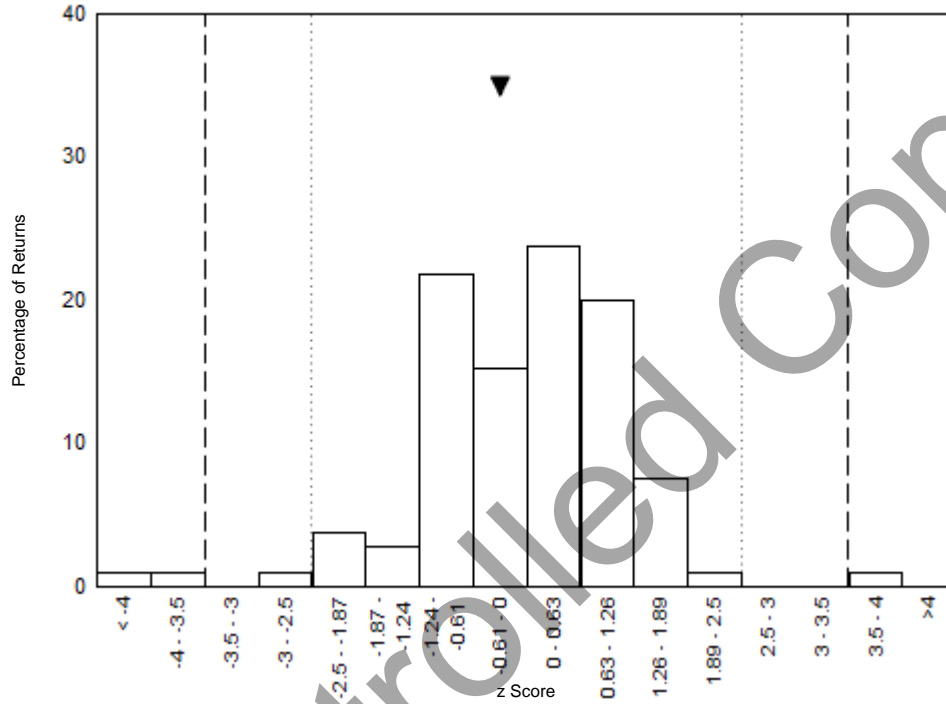
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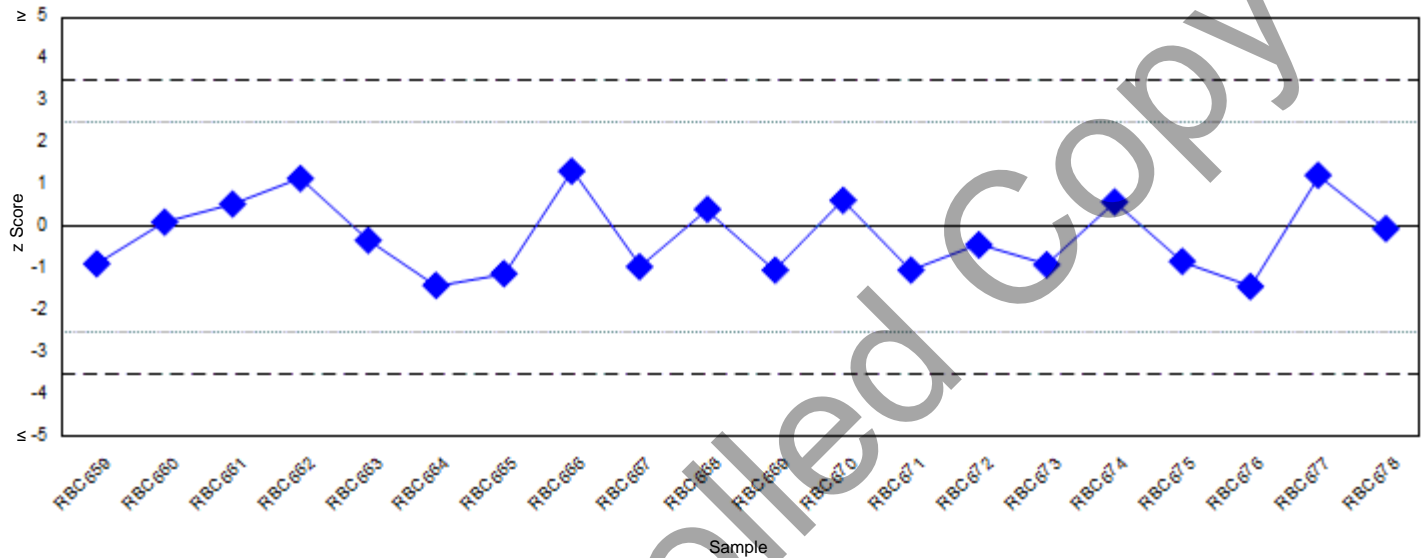
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Shewhart Control Charts

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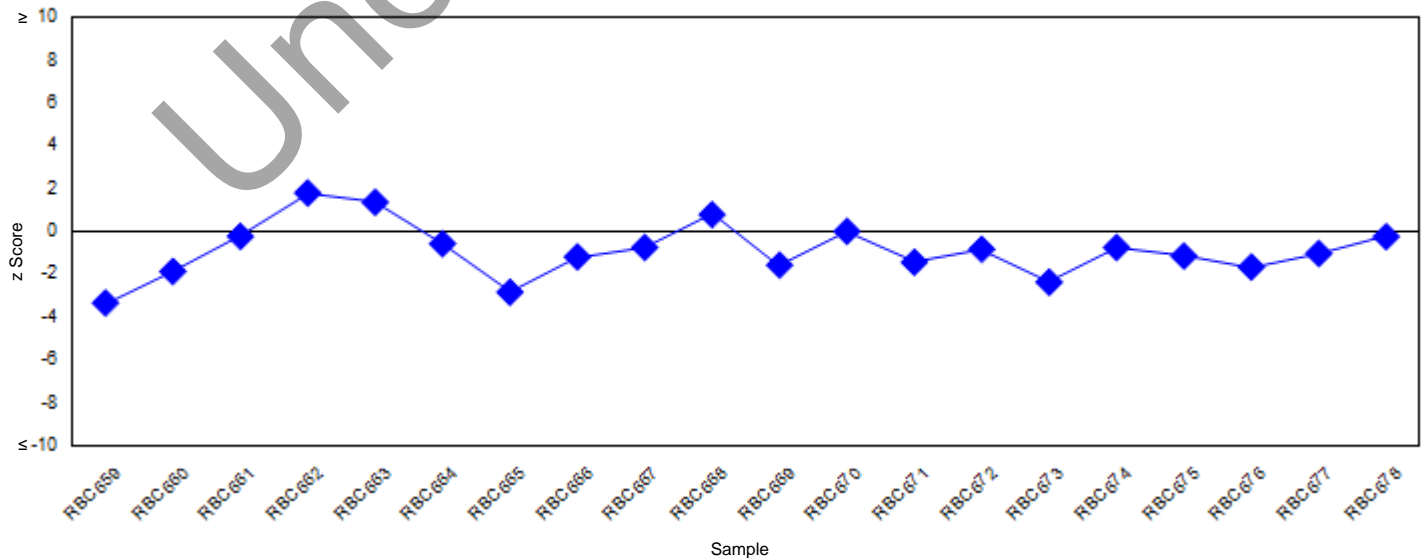
Absolute Values (cells/ μ L) - Machine 1



Cusum Control Charts

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Staining Method Specific Statistics

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Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	8.78	1.38

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	36	8.82	0.99
Navios	20	8.76	1.68

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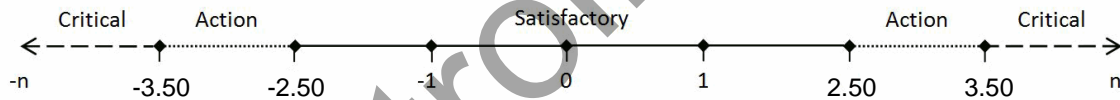
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1	3.06	3.26	0.48

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1	-0.42	Satisfactory	11	1	0

*z Score Limits Definitions

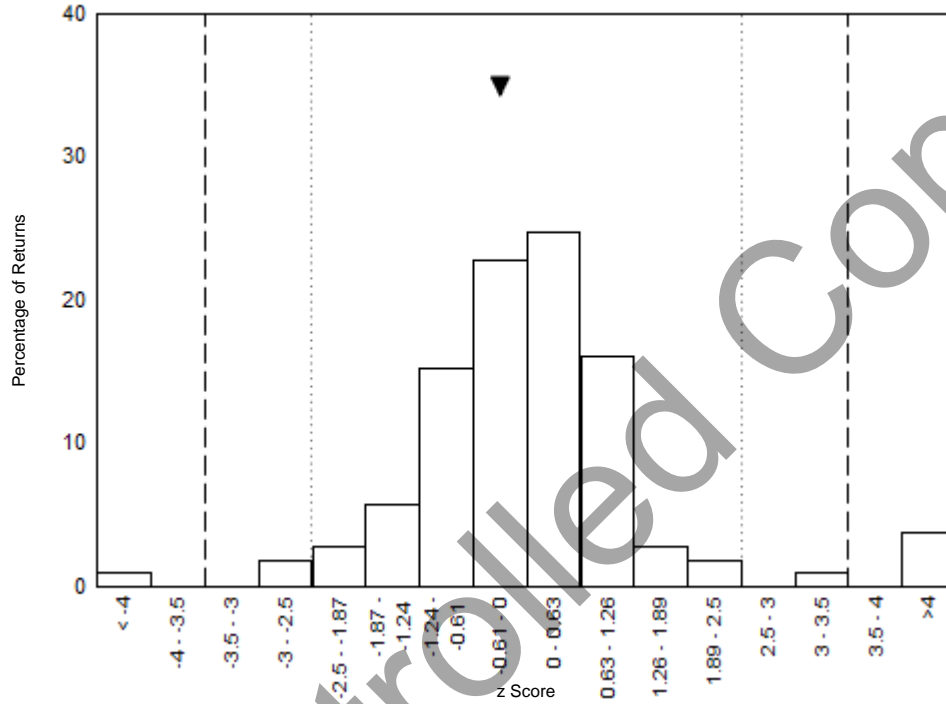
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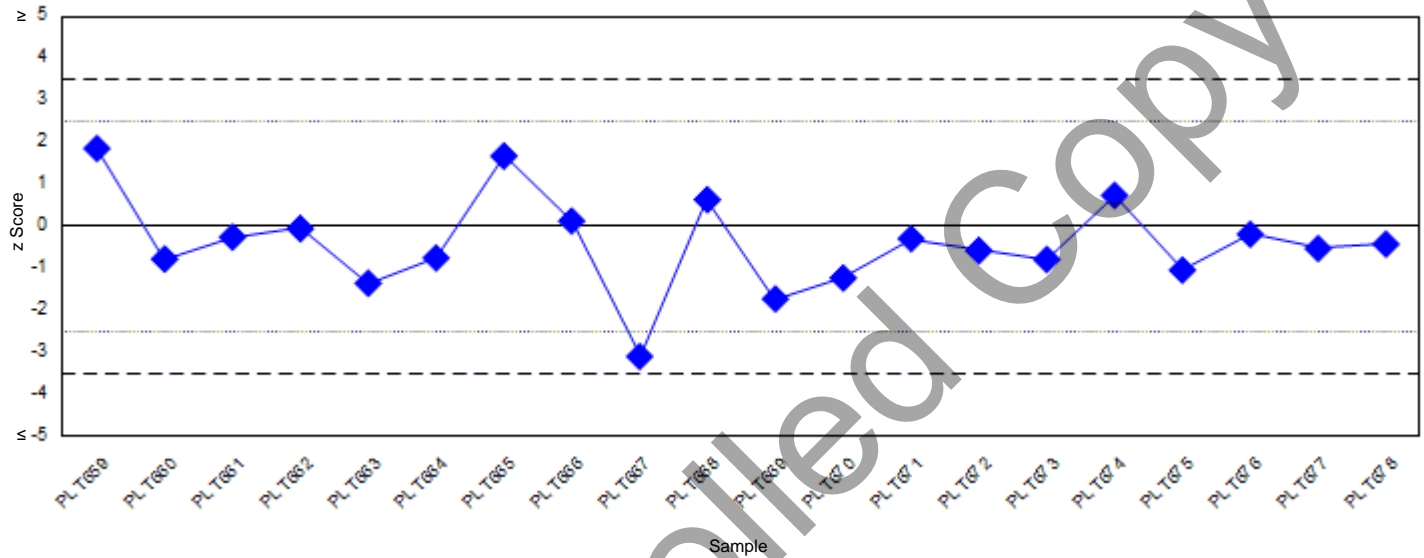
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Shewhart Control Charts

(Please note each data point represents a single sample)

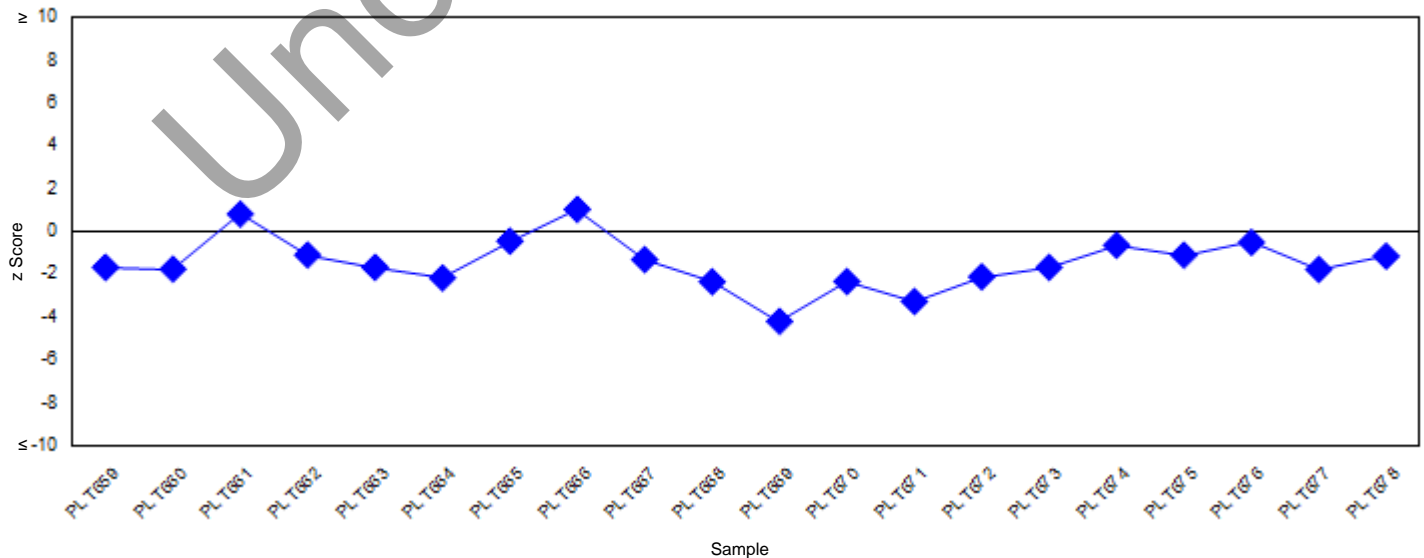
Absolute Values (cells/ μ L) - Machine 1



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Absolute Values (cells/ μ L) - Machine 1



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Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	3.25	0.44

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	36	3.13	0.53
Navios	20	3.39	0.36

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