	A	B	C	D	E	F	G	H	I	J	K
1	**UCL Statistics for Uncensored Full Data Sets**										
2	**#VALUE!**										
3	User Selected Options			#VALUE!							
4	Date/Time of Computation			6/12/2018 2:41:02 PM							
5	From File			ProUCL Input Loading Dock-2 SE (060518).xls							
6	Full Precision			OFF							
7	Confidence Coefficient			95%							
8	Number of Bootstrap Operations			2000							
9	**#VALUE!**										
10	**#VALUE!**										
11	**Total PCBs**										
12	**#VALUE!**										
13	**General Statistics**										
14	Total Number of Observations					5	Number of Distinct Observations				
15	#VALUE!					#VALUE!	Number of Missing Observations				
16	Minimum					0.11	Mean				
17	Maximum					7	Median				
18	SD					2.843	Std. Error of Mean				
19	Coefficient of Variation					1.31	Skewness				
20	**#VALUE!**										
21	**Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use**										
22	**guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.**										
23	**For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).**										
24	**Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.0**										
25	**#VALUE!**										
26	**Normal GOF Test**										
27	Shapiro Wilk Test Statistic					0.799	**Shapiro Wilk GOF Test**				
28	5% Shapiro Wilk Critical Value					0.762	Data appear Normal at 5% Significance Level				
29	Lilliefors Test Statistic					0.273	**Lilliefors GOF Test**				
30	5% Lilliefors Critical Value					0.396	Data appear Normal at 5% Significance Level				
31	**Data appear Normal at 5% Significance Level**										
32	**#VALUE!**										
33	**Assuming Normal Distribution**										
34	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**				
35	95% Student's-t UCL					4.88	95% Adjusted-CLT UCL (Chen-1995)				
36	#VALUE!					#VALUE!	95% Modified-t UCL (Johnson-1978)				
37	**#VALUE!**										
38	**Gamma GOF Test**										
39	A-D Test Statistic					0.214	**Anderson-Darling Gamma GOF Test**				
40	5% A-D Critical Value					0.702	Detected data appear Gamma Distributed at 5% Significan				
41	K-S Test Statistic					0.196	**Kolmogrov-Smirnoff Gamma GOF Test**				
42	5% K-S Critical Value					0.368	Detected data appear Gamma Distributed at 5% Significan				
43	**Detected data appear Gamma Distributed at 5% Significance Level**										
44	**#VALUE!**										
45	**Gamma Statistics**										
46	k hat (MLE)					0.681	k star (bias corrected MLE)				
47	Theta hat (MLE)					3.186	Theta star (bias corrected MLE)				
48	nu hat (MLE)					6.81	nu star (bias corrected)				
49	MLE Mean (bias corrected)					2.17	MLE Sd (bias corrected)				
50	**#VALUE!**						Approximate Chi Square Value (0.05)				
51	Adjusted Level of Significance					0.0086	Adjusted Chi Square Value				
52	**#VALUE!**										
53	**Assuming Gamma Distribution**										
54	95% Approximate Gamma UCL (use when n>=50))					11.83	95% Adjusted Gamma UCL (use when n<50)				
55	**#VALUE!**										
56	**Lognormal GOF Test**										
57	Shapiro Wilk Test Statistic					0.979	**Shapiro Wilk Lognormal GOF Test**				
58	5% Shapiro Wilk Critical Value					0.762	Data appear Lognormal at 5% Significance Level				
59	Lilliefors Test Statistic					0.158	**Lilliefors Lognormal GOF Test**				
60	5% Lilliefors Critical Value					0.396	Data appear Lognormal at 5% Significance Level				
61	**Data appear Lognormal at 5% Significance Level**										
62	**#VALUE!**										
63	**Lognormal Statistics**										
64	Minimum of Logged Data					-2.207	Mean of logged Data				
65	Maximum of Logged Data					1.946	SD of logged Data				
66	**#VALUE!**										
67	**Assuming Lognormal Distribution**										
68	95% H-UCL					2265	90% Chebyshev (MVUE) UCL				
69	95% Chebyshev (MVUE) UCL					8.8	97.5% Chebyshev (MVUE) UCL				
70	99% Chebyshev (MVUE) UCL					17.14	#VALUE!				
71	**#VALUE!**										
72	**Nonparametric Distribution Free UCL Statistics**										
73	**Data appear to follow a Discernible Distribution at 5% Significance Level**										

	A	B	C	D	E	F	G	H	I	J	K
74	**#VALUE!**										
75	**Nonparametric Distribution Free UCLs**										
76					95% CLT UCL	4.261	95% Jackknife UCL				
77				95% Standard Bootstrap UCL		4.045	95% Bootstrap-t UCL				
78				95% Hall's Bootstrap UCL		13.32	95% Percentile Bootstrap UCL				
79				95% BCA Bootstrap UCL		4.892	#VALUE!				
80			90% Chebyshev(Mean, Sd) UCL			5.984	95% Chebyshev(Mean, Sd) UCL				
81			97.5% Chebyshev(Mean, Sd) UCL			10.11	99% Chebyshev(Mean, Sd) UCL				
82	**#VALUE!**										
83	**Suggested UCL to Use**										
84					95% Student's-t UCL	4.88					#VALUE!
85	**#VALUE!**										
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
87	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)										
88	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.										
89	For additional insight the user may want to consult a statistician.										
90	**#VALUE!**										

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14	5
15	0
16	2.17
17	1.1
18	1.271
19	1.741
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29	
30	
31	
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33	
34	
35	5.319
36	5.045
37	
38	
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40	ce Level
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42	ce Level
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46	0.406
47	5.348
48	4.058
49	3.407
50	0.745
51	0.309
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54	28.49
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64	-0.116
65	1.655
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68	6.772
69	11.61
70	#VALUE!
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76	4.88
77	11.15
78	4.244
79	#VALUE!
80	7.712
81	14.82
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84	#VALUE!
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