

MW-20M Cis-1,2 DCE												
General Statistics												
Total Number of Observations				12	Number of Distinct Observations					8		
Number of Detects				3	Number of Non-Detects					9		
Number of Distinct Detects				3	Number of Distinct Non-Detects					5		
Minimum Detect				0.31	Minimum Non-Detect					0.24		
Maximum Detect				0.81	Maximum Non-Detect					1.4		
Variance Detects				0.0721	Percent Non-Detects					75%		
Mean Detects				0.503	SD Detects					0.269		
Median Detects				0.39	CV Detects					0.534		
Skewness Detects				1.561	Kurtosis Detects					N/A		
Mean of Logged Detects				-0.775	SD of Logged Detects					0.502		
Warning: Data set has only 3 Detected Values.												
This is not enough to compute meaningful or reliable statistics and estimates.												
Normal GOF Test on Detects Only												
Shapiro Wilk Test Statistic				0.866	Shapiro Wilk GOF Test							
1% Shapiro Wilk Critical Value				0.753	Detected Data appear Normal at 1% Significance Level							
Lilliefors Test Statistic				0.33	Lilliefors GOF Test							
1% Lilliefors Critical Value				0.429	Detected Data appear Normal at 1% Significance Level							
Detected Data appear Normal at 1% Significance Level												
Note GOF tests may be unreliable for small sample sizes												
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs												
KM Mean				0.314	KM Standard Error of Mean					0.0608		
90KM SD				0.164	95% KM (BCA) UCL					N/A		
95% KM (t) UCL				0.423	95% KM (Percentile Bootstrap) UCL					N/A		
95% KM (z) UCL				0.414	95% KM Bootstrap t UCL					N/A		
90% KM Chebyshev UCL				0.496	95% KM Chebyshev UCL					0.579		
97.5% KM Chebyshev UCL				0.693	99% KM Chebyshev UCL					0.919		

Gamma GOF Tests on Detected Observations Only						
A-D Test Statistic				0.389	Anderson-Darling GOF Test	
5% A-D Critical Value				0.637	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic				0.34	Kolmogorov-Smirnov GOF	
5% K-S Critical Value				0.433	Detected data appear Gamma Distributed at 5% Significance Level	
Detected Data Not Gamma Distributed at 5% Significance Level						
Gamma Statistics on Detected Data Only						
k hat (MLE)				5.843	k star (bias corrected MLE)	N/A
Theta hat (MLE)				0.0861	Theta star (bias corrected MLE)	N/A
nu hat (MLE)				35.06	nu star (bias corrected)	N/A
Mean (detects)				0.503		
Gamma ROS Statistics using Imputed Non-Detects						
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs						
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)						
For such situations, GROS method may yield incorrect values of UCLs and BTVs						
This is especially true when the sample size is small.						
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates						
Minimum				0.01	Mean	0.133
Maximum				0.81	Median	0.01
SD				0.251	CV	1.881
k hat (MLE)				0.403	k star (bias corrected MLE)	0.358
Theta hat (MLE)				0.331	Theta star (bias corrected MLE)	0.373
nu hat (MLE)				9.663	nu star (bias corrected)	8.581
Adjusted Level of Significance ( $\beta$ )				0.029		
Approximate Chi Square Value (8.58, $\alpha$ )				3.076	Adjusted Chi Square Value (8.58, $\beta$ )	2.595
95% Gamma Approximate UCL				0.372	95% Gamma Adjusted UCL	N/A
Estimates of Gamma Parameters using KM Estimates						
Mean (KM)				0.314	SD (KM)	0.164
Variance (KM)				0.0268	SE of Mean (KM)	0.0608



