

Test Group Summary Report

C16 Volatile Organic Compounds in Water

June 2025 PT Round

Issued: August 25, 2025

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1.0 The Proficiency Testing Report

The Proficiency Testing Report consists of two parts.

- *PTC Proficiency Testing Report*: This report contains participant-specific data and other confidential information. This report is emailed to participants at the end of the PT round.
- *Test Group Summary Report*: A Test Group Summary Report is created for each quantified test group at the end of the PT round. These reports contain more detailed information on the round than is found in the participant-specific PTC Proficiency Testing Report. These reports do not contain any confidential information and are made available on the PTC web site.

2.0 Definitions

The PTC Proficiency Testing Reports contain some terms that new participants may not be familiar with:

<i>PT Code</i> :	The PT Code is unique to each analyte that a participant is registered for.
<i>Lab Info</i> :	If a participant is accredited by CALA, this three-digit number in the Laboratory Information is the appendix number that the accredited method is assigned to.
<i>N</i> :	The number of participants results that were used to calculate the summary statistics. This excludes qualified data (e.g., <) and any results that were flagged as outliers.
<i>Assigned Value</i> :	The Assigned Value is the Robust Mean of the reported results, outliers excluded. This is often referred to as the “target” value.
<i>Reported Value</i> :	The result reported by the participant.
<i>SDPTA</i> :	The Standard Deviation of Proficiency Testing Assessment; this value is used to determine the acceptance limits for the PT evaluation. The calculations examine the Robust Standard Deviation (from consensus STD) and Regression Standard Deviation (STD from historical studies or TNI limits); and, if any, Homogeneity and Stability flags to determine the SDPTA (whichever is higher).
<i>z-Score</i> :	A value assigned to each reported result that is a measure of the degree to which it deviates from the Assigned Value.
<i>PT Score</i> :	The composite score of the four results reported for each analyte. It is normalized to a score out of 100.
<i>Bias</i> :	A flag assigned if bias is detected using the re-scaled z-score procedure.
<i>U</i> :	The Uncertainty of the assigned value.

3.0 Scoring System

Participant performance is evaluated for each proficiency testing sample by a quantitative method that is consistent with ISO/IEC 17043 - *Conformity assessment- General requirements for the competence of proficiency testing providers*, the *International Harmonized Protocol for Proficiency Testing of (Chemical) Analytical Laboratories* (2006), and ISO 13528 *Statistical methods for use in proficiency testing by interlaboratory comparison*.

The following is a brief description of the evaluation procedure used by PTC. The detailed evaluation procedure is described in PROC09 – PT Evaluation *Procedure*, which is available on the PTC website www.PTCanada.org).

3.1 HOMOGENEITY AND STABILITY ASSESSMENT

Homogeneity and stability are assessed using participant data. Regression analysis is performed on reported result against order of sample production (Homogeneity) and reported result against date of analysis (Stability). If the slope is significantly different than zero for either then the Standard Deviation of Proficiency Assessment (s) is increased to minimize the impact.

3.2 THE Z SCORE

A "z-score" is calculated for each reported result as follows:

$$z - Score = \frac{(x - \bar{X})}{SDPA} \quad \text{where: } \begin{array}{l} x = \text{participant result;} \\ \bar{X} = \text{the Assigned Value;} \\ SDPA = \text{the Standard Deviation for Proficiency Assessment.} \end{array}$$

The assigned value $\bar{X}$ is generally estimated from the inter-laboratory Robust mean after outliers due to obvious gross errors (e.g., reported in wrong units) have been removed.

The Standard Deviation for Proficiency Assessment, s, is determined as follows:

- The inter-laboratory Robust standard deviation ($Stdev_{rob}$) is calculated using reported results, obvious outliers removed;
- The regression equation standard deviation ($Stdev_{reg}$) is estimated from regression equations derived from previous studies (see PROC11- *PT Regression Equations* for details);
- The SDPA is the higher of $Stdev_{rob}$ and $Stdev_{reg}$;
- When a laboratory reports its detection limit, s will be estimated using a pooled variance procedure that uses both the inter-laboratory data and the reported detection limit.

3.2 COMPOSITE (PT) SCORE

Since each PT round involves four or two separate samples of distinct concentration for each test, it is necessary to calculate a composite PT score for each test to determine overall performance. The composite score is calculated by first averaging the absolute z-scores for the four results and then calculating a final score as $100 + (-15 \times \text{avg } |z|)$.

Acceptable PT Scores equal or exceed 70.

3.3 IDENTIFYING BIAS

The proficiency testing report provides flags for bias. These are determined using the re-scaled z-score procedure.

$$RSZ = \frac{\sum z}{\sqrt{N}} \quad \text{where } \begin{array}{l} z = \text{the z- score} \\ N = \text{the number of samples} \end{array}$$

Flags are assigned for each test group/parameter combination as follows:

$$RSZ \geq -2 \text{ and } \leq 2 \text{ no flag assigned}$$

RSZ > 2	H (High)
RSZ > 3	VH (Very High)
RSZ < -2	L (LOW)
RSZ < -3	VL (Very Low)

3.4 DEVIATIONS FROM EVALUATION PROCEDURE

Other than changes to the Standard Deviation of Proficiency Assessment due to homogeneity or stability flags, any deviation from the published evaluation procedure is described on the cover page(s) of the final *PTC Proficiency Testing Report*.

4.0 PT Round Specific Data Summary

The following pages provide more detailed information about the PT round indicated in the cover page of this report than is found in the participant-specific PTC Proficiency Testing Report. The graphical representations and the statistical summaries are based upon the data after outliers have been removed.

4.1 SUMMARY STATISTICS

In addition to some of the statistics found in the customer reports, this table includes additional summary statistics such as Median, different measures of dispersion, the number of outliers removed, the number of results in the Questionable range ($|z|$ between 2 and 3) and the Unacceptable range ($z > 3$), and whether a data set was flagged for Homogeneity or Stability. This section also includes sorted scatter plots of the data for each sample.

4.2 z - SCORE PLOTS

The z-scores for each sample are ranked in increasing order and plotted. When the data is normally distributed, the plot should show a slight sigmoidal curve, with an equal number of points above zero as below. Each bar in these plots is colour-coded to indicate the analytical method used by the participant.

4.3 KERNEL DENSITY PLOTS

Kernel density plots are generated for each data set. These plots are a graphical way to represent the overall data distribution and are used to visualize possible deviations from normality and unimodality.

4.4 STABILITY AND HOMOGENEITY PLOTS

Plots of reported result against analysis date, and reported result against order of bottling are displayed, along with the regression line. These regression analyses are used to determine if the SDPA should be adjusted due to homogeneity or stability.

4.5 BOX-AND-WHISKER PLOTS

Box-and-Whisker plots are another way to display the distribution of the data. The box denotes the first and third quartile and the whiskers are the 5th and 95th percentile.

4.6 HISTORIC COMPARISON PLOT

The Historic Comparison Plot is a plot of robust mean against robust standard deviation for the previous ten PT rounds as well as the current PT round. This plot can be used to identify possible changes in the sample formulation.

1,1,1-Trichloroethane

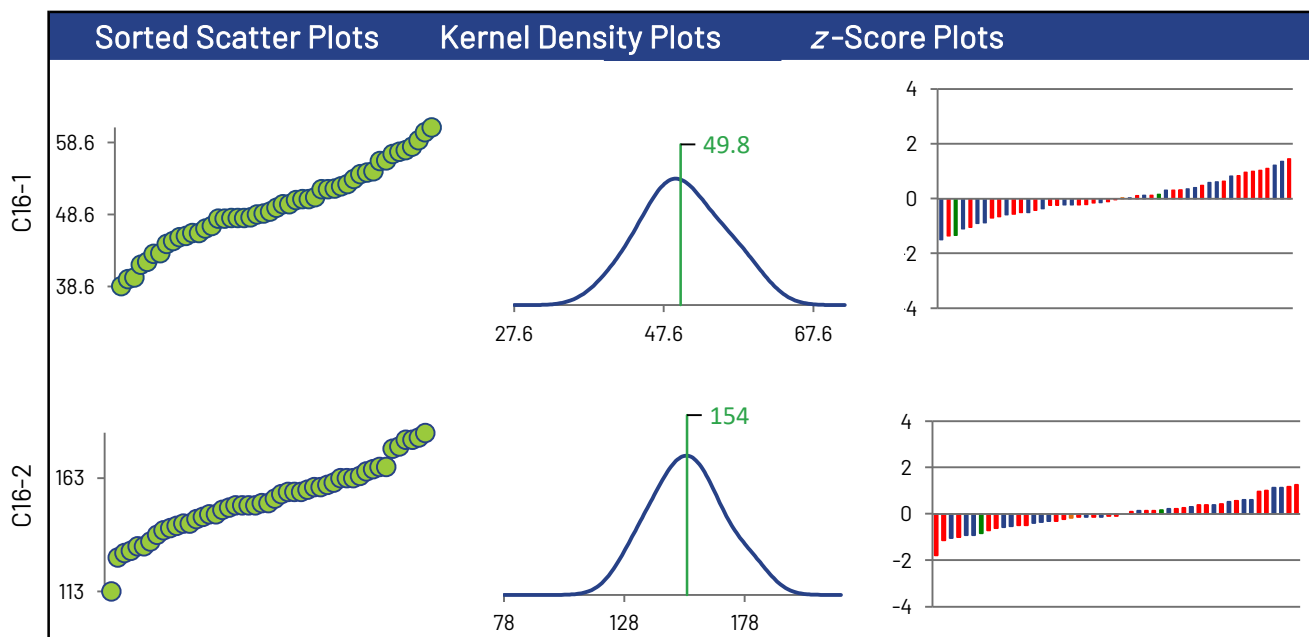
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	49	49	49	49
Median µg/L	49.5	152	9.70	60.8
Robust Mean µg/L	49.8	154	9.65	61.0
Uncertainty of the Assigned Value µg/L	1.03	2.80	0.180	0.921
Robust Standard Deviation µg/L	5.79	15.7	1.01	5.16
Regression Standard Deviation µg/L	7.48	23.0	1.45	9.15
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.48	23.0	1.45	9.15
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	2	1
Failure Rate %*	0.0			

Methods Used

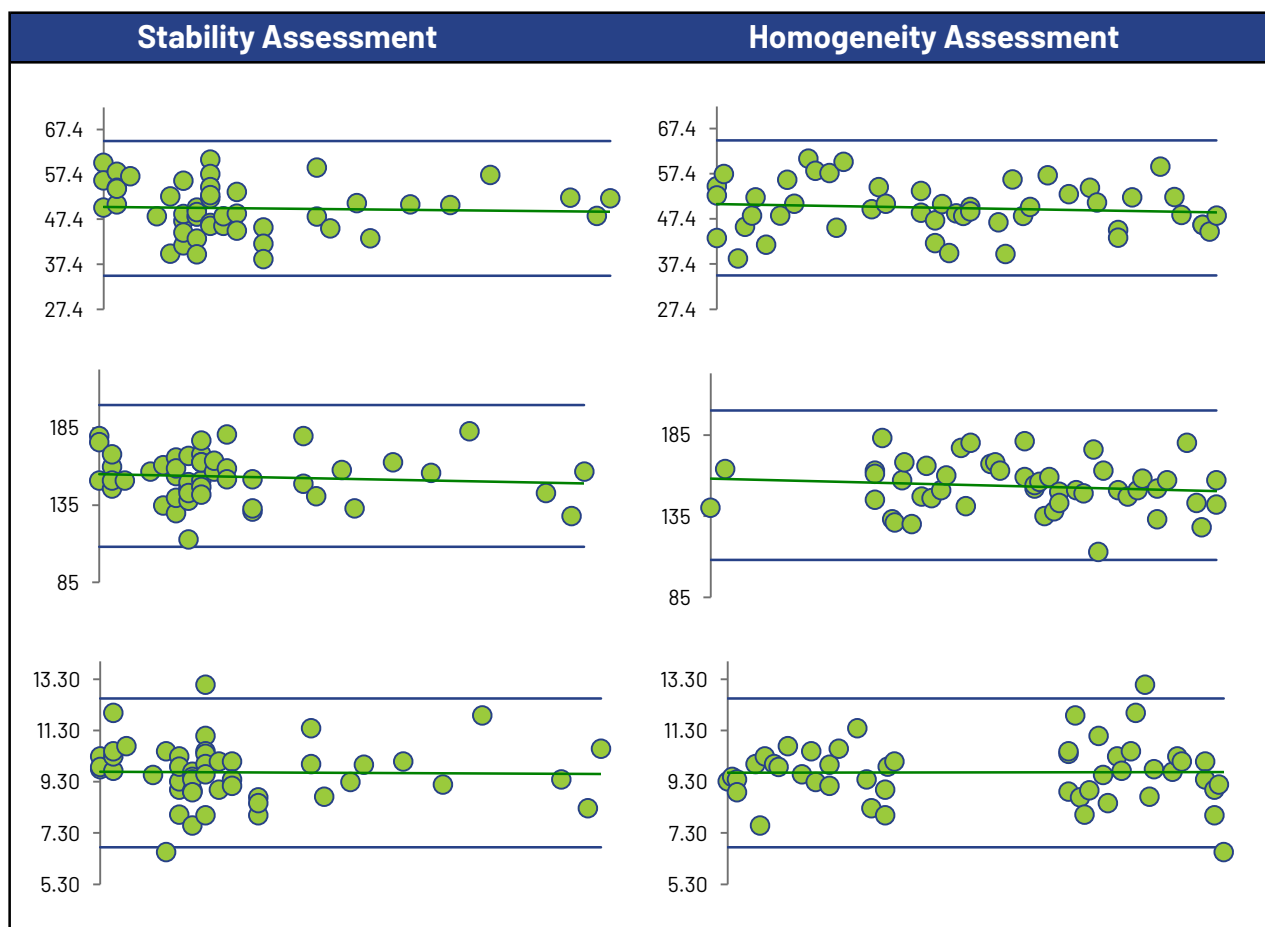
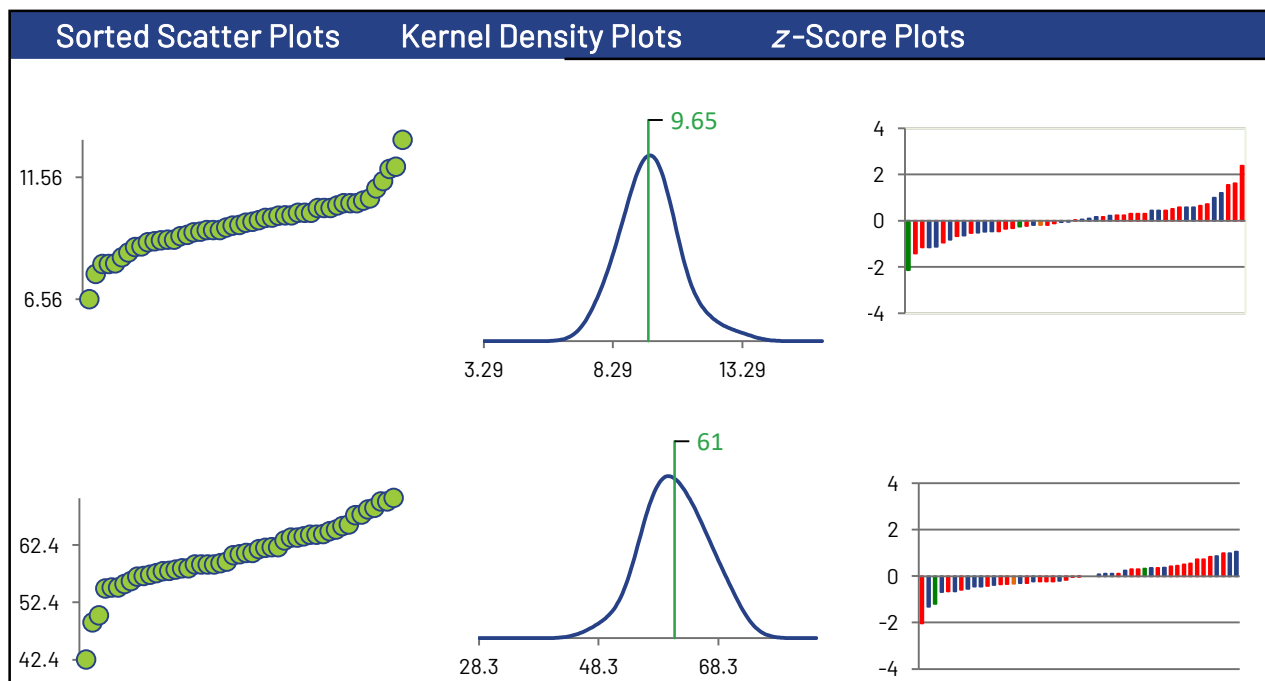
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	20	20	20	20
GC/MS - PURGE AND TRAP (Red)	26	26	26	26
GC/MS (Green)	2	2	2	2
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

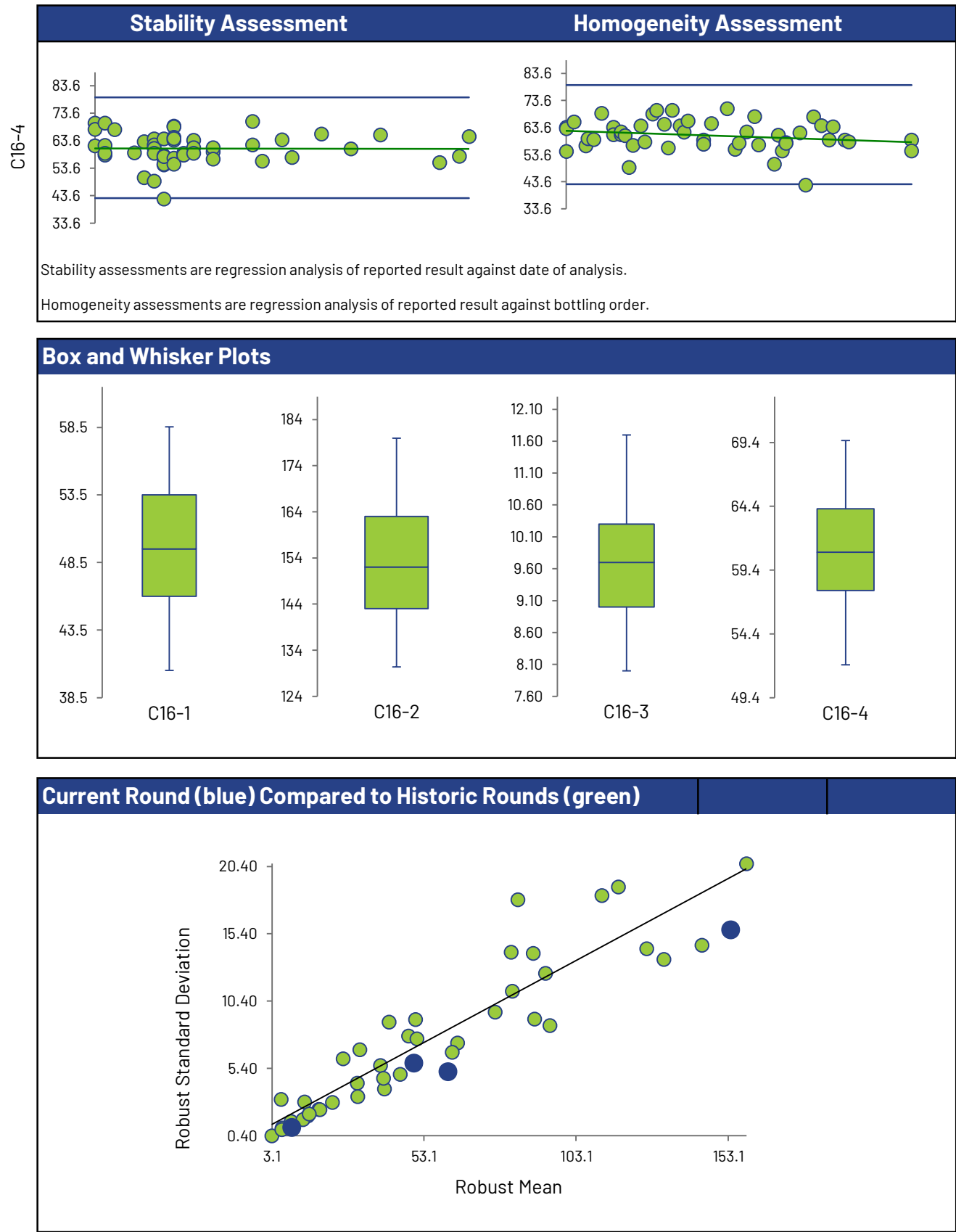


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

1,1,1-Trichloroethane



1,1,1-Trichloroethane



1,1,2,2-Tetrachloroethane

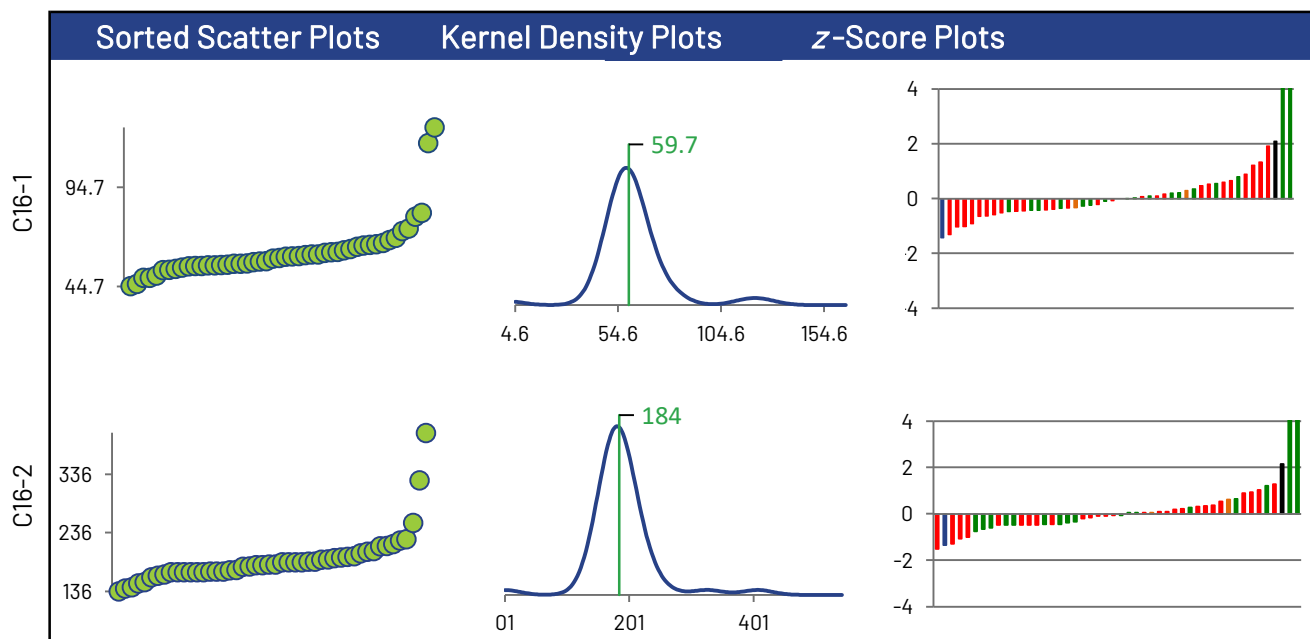
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	48	48	48	48
Median µg/L	59.4	182	11.0	83.3
Robust Mean µg/L	59.7	184	11.4	82.9
Uncertainty of the Assigned Value µg/L	1.37	4.26	0.316	1.63
Robust Standard Deviation µg/L	7.58	23.6	1.75	9.02
Regression Standard Deviation µg/L	10.5	32.1	1.99	14.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	10.5	32.1	1.99	14.5
Flagged Outliers	0	0	0	0
$ z > 3.0$	2	2	2	1
$2 < z < 3$	1	1	2	2
Failure Rate %*	6.3			

Methods Used

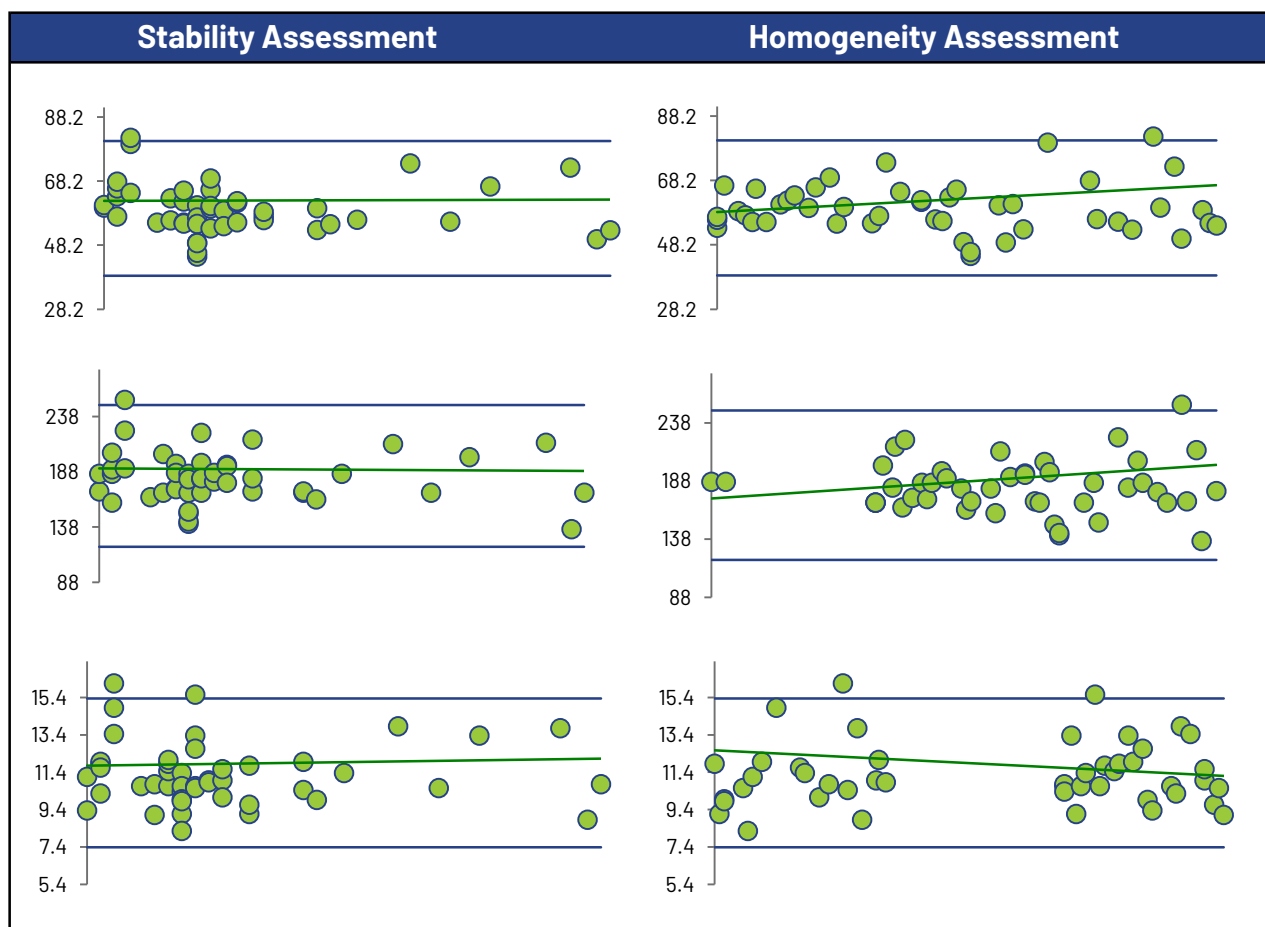
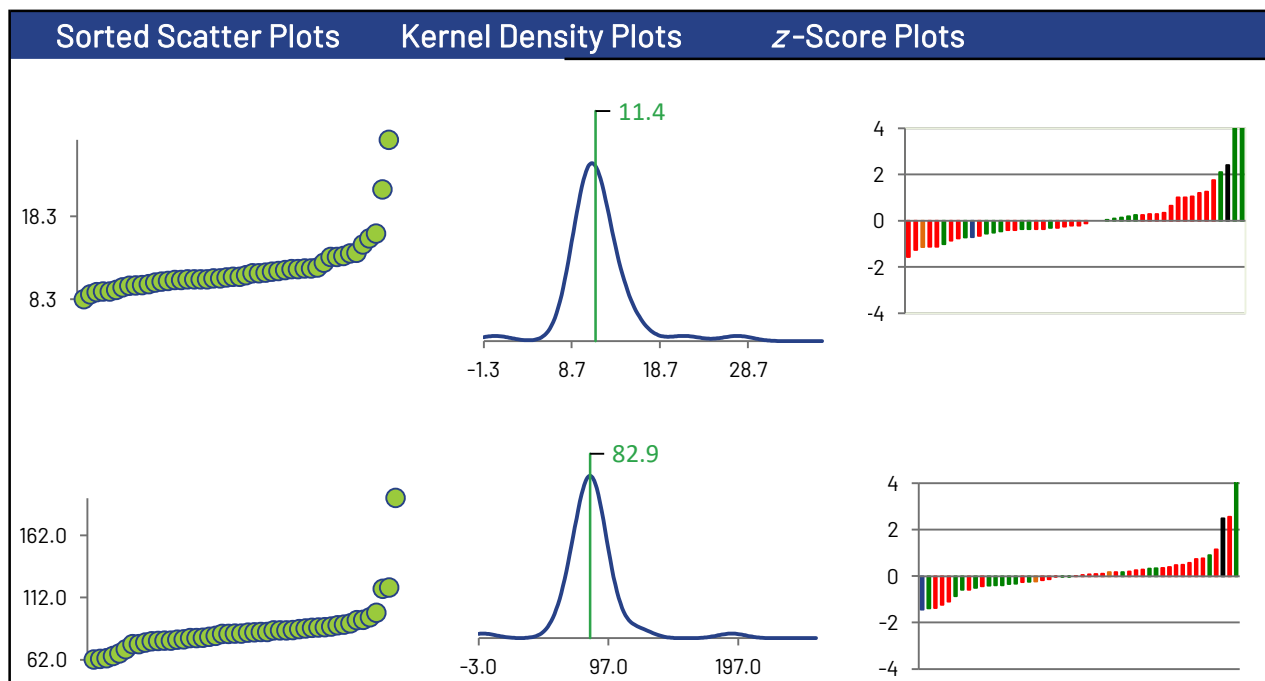
Method	C16-1	C16-2	C16-3	C16-4
GC/FID - PURGE AND TRAP (Blue)	1	1	1	1
GC/MS - PURGE AND TRAP (Red)	27	27	27	27
GC/MS - HEADSPACE (Green)	17	17	17	17
GC/MS (Orange)	2	2	2	2
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

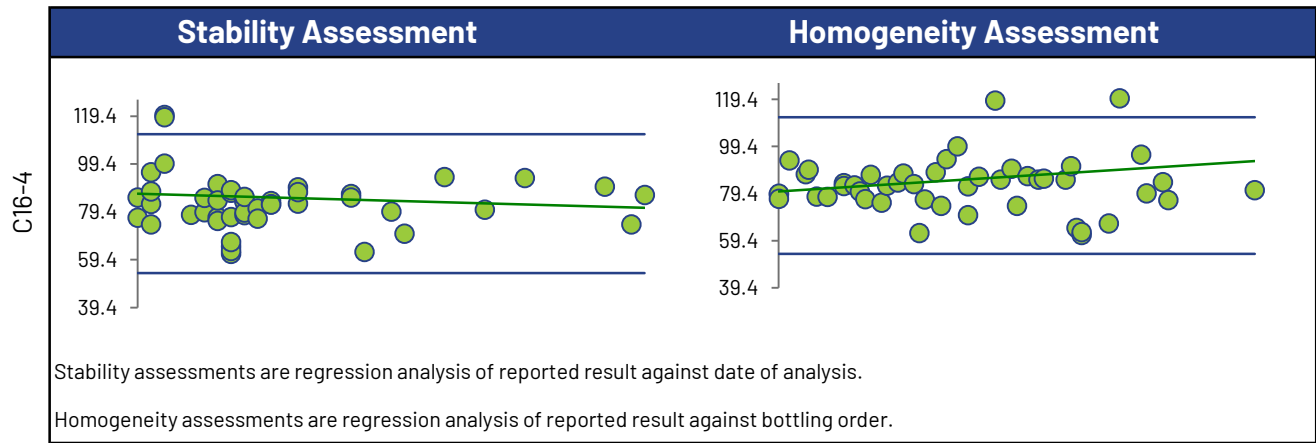


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

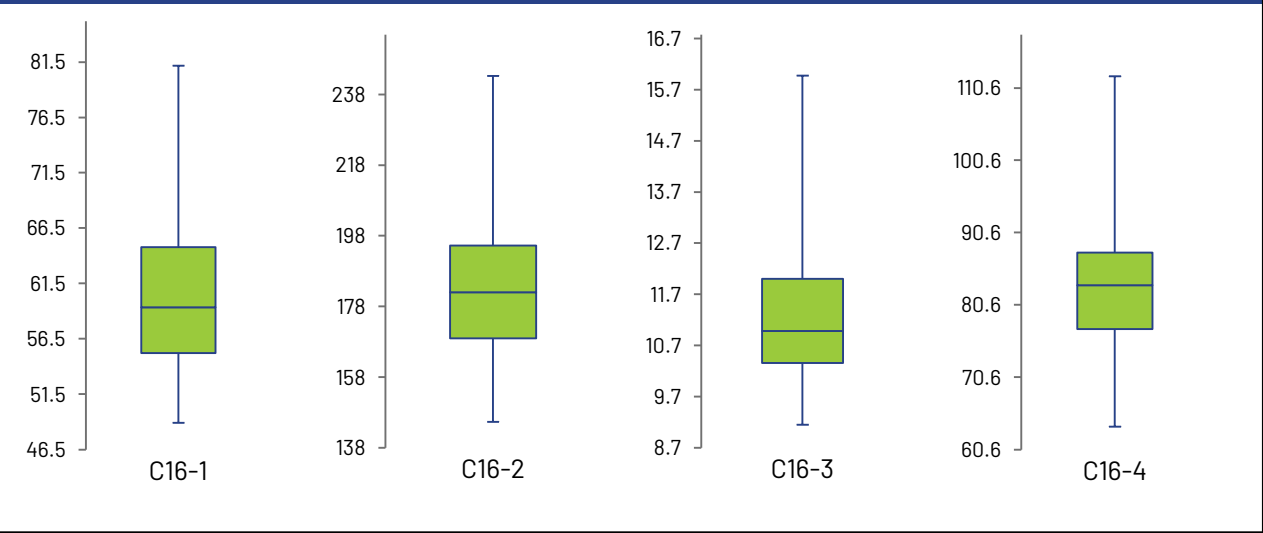
1,1,2,2-Tetrachloroethane



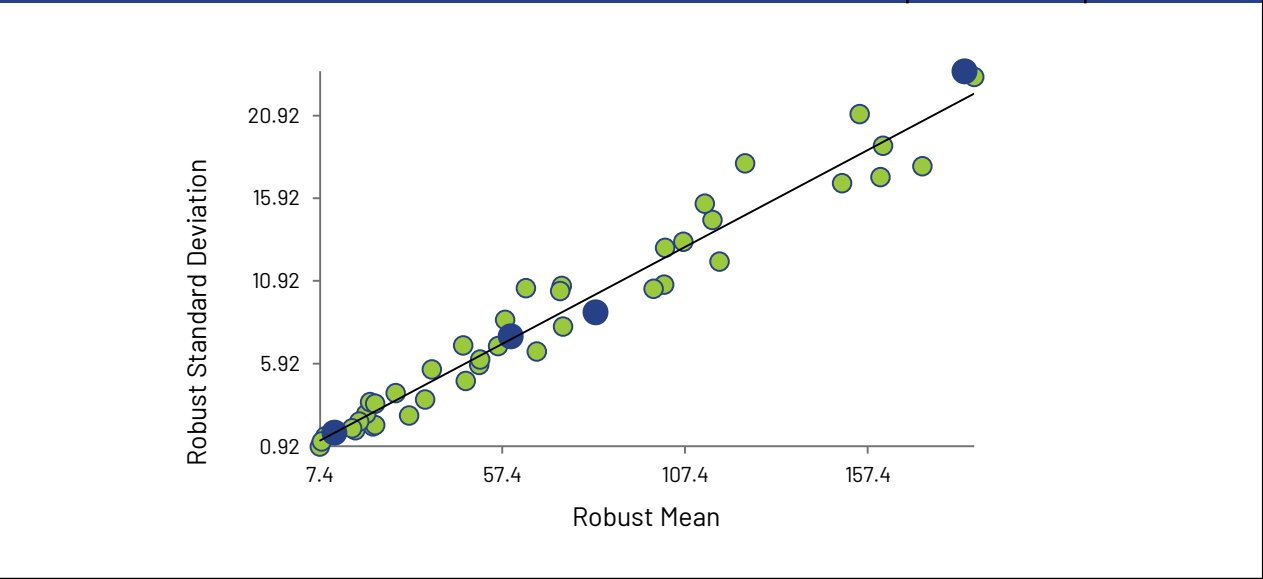
1,1,2,2-Tetrachloroethane



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,1,2-Trichloroethane

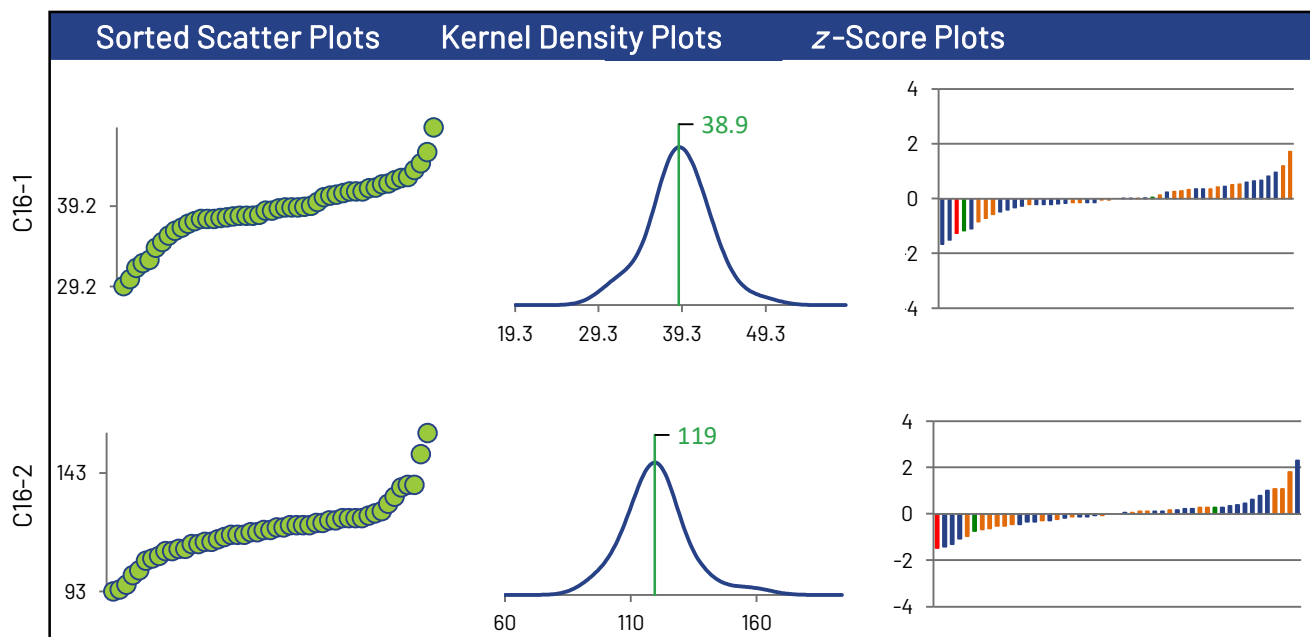
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	49	49	49	49
Median µg/L	38.9	119	7.44	81.2
Robust Mean µg/L	38.9	119	7.46	80.3
Uncertainty of the Assigned Value µg/L	0.584	1.79	0.144	1.15
Robust Standard Deviation µg/L	3.27	10.0	0.805	6.46
Regression Standard Deviation µg/L	5.83	17.8	1.12	12.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	5.83	17.8	1.12	12.0
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	1	1	1
Failure Rate %*	0.0			

Methods Used

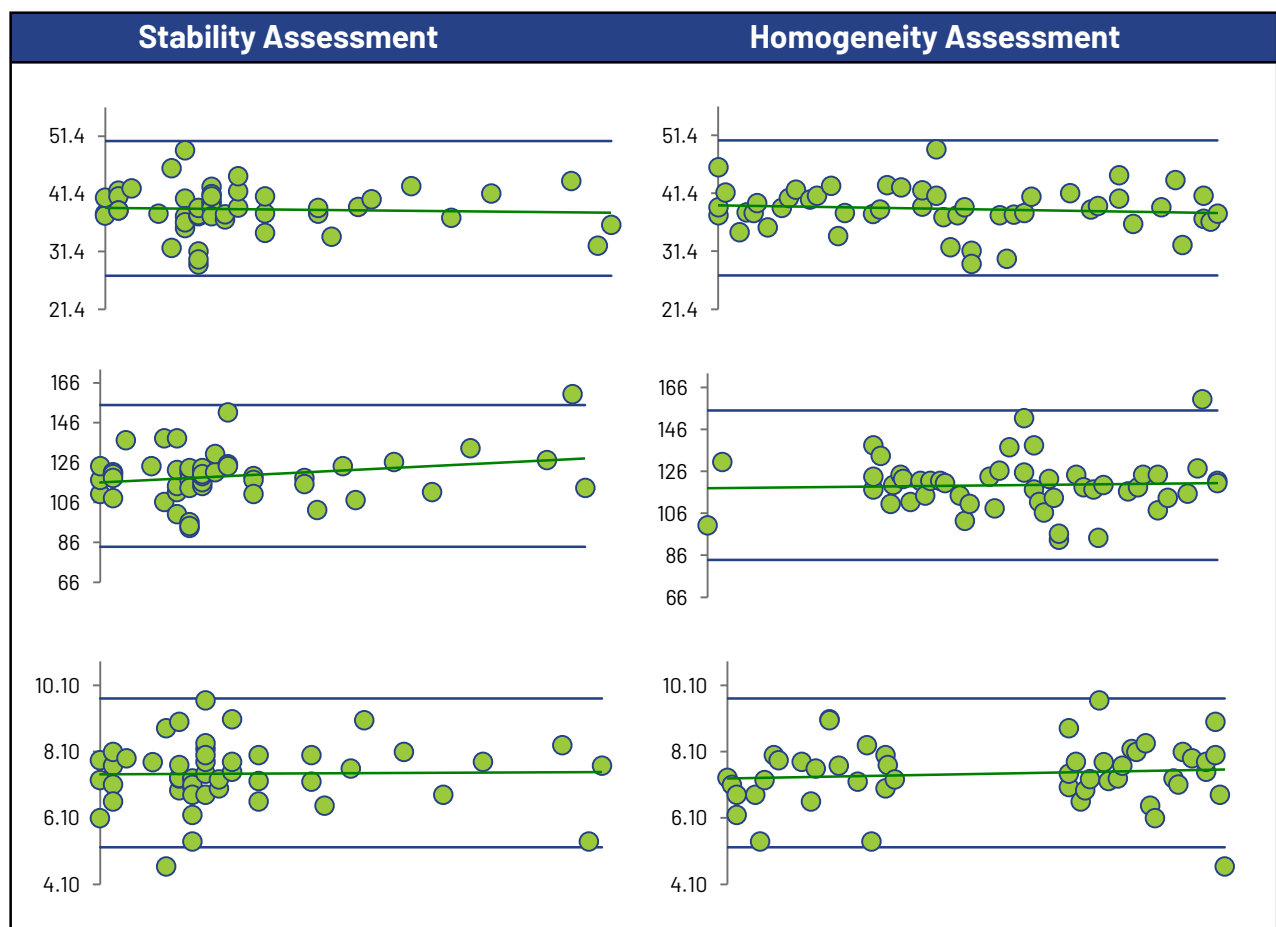
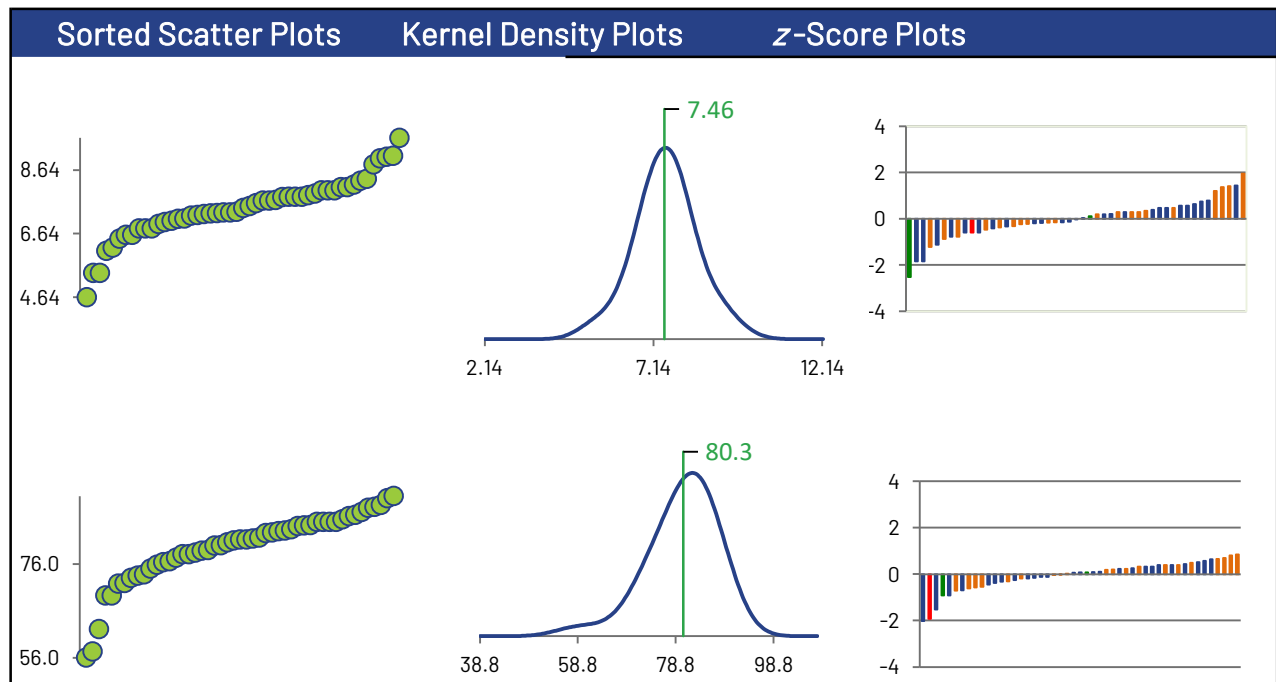
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	26	26	26	26
GC/FID - PURGE AND TRAP (Red)	1	1	1	1
GC/MS (Green)	2	2	2	2
GC/MS - HEADSPACE (Orange)	20	20	20	20

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

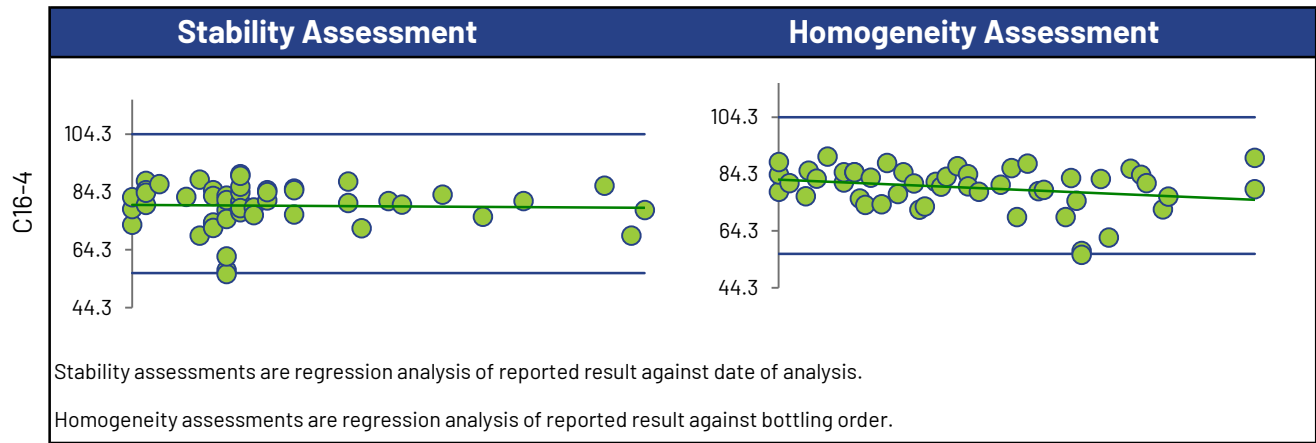


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

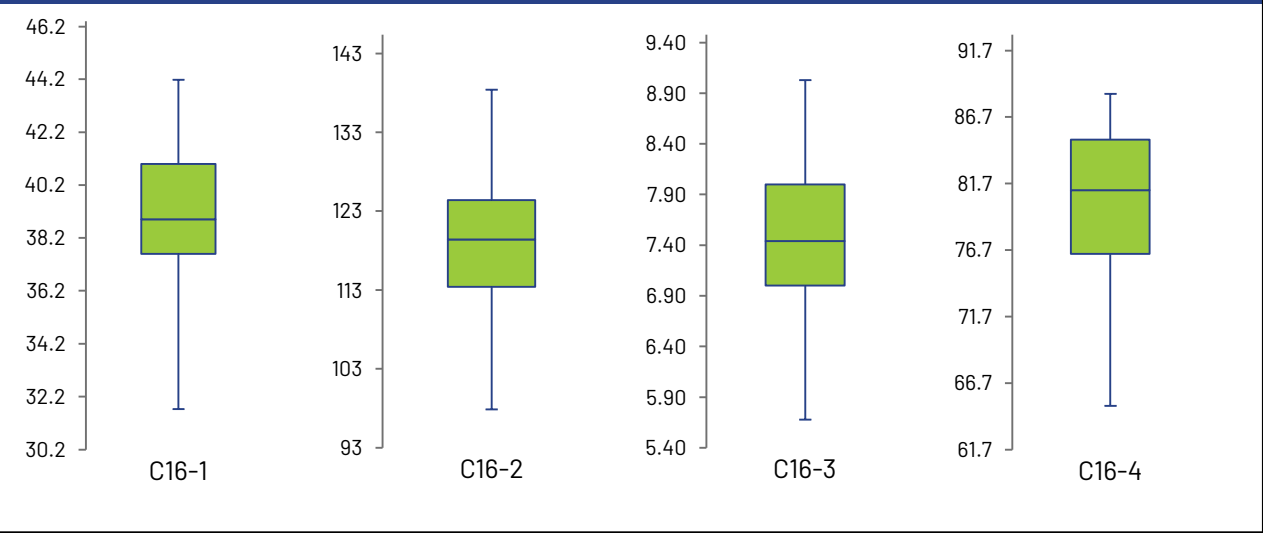
1,1,2-Trichloroethane



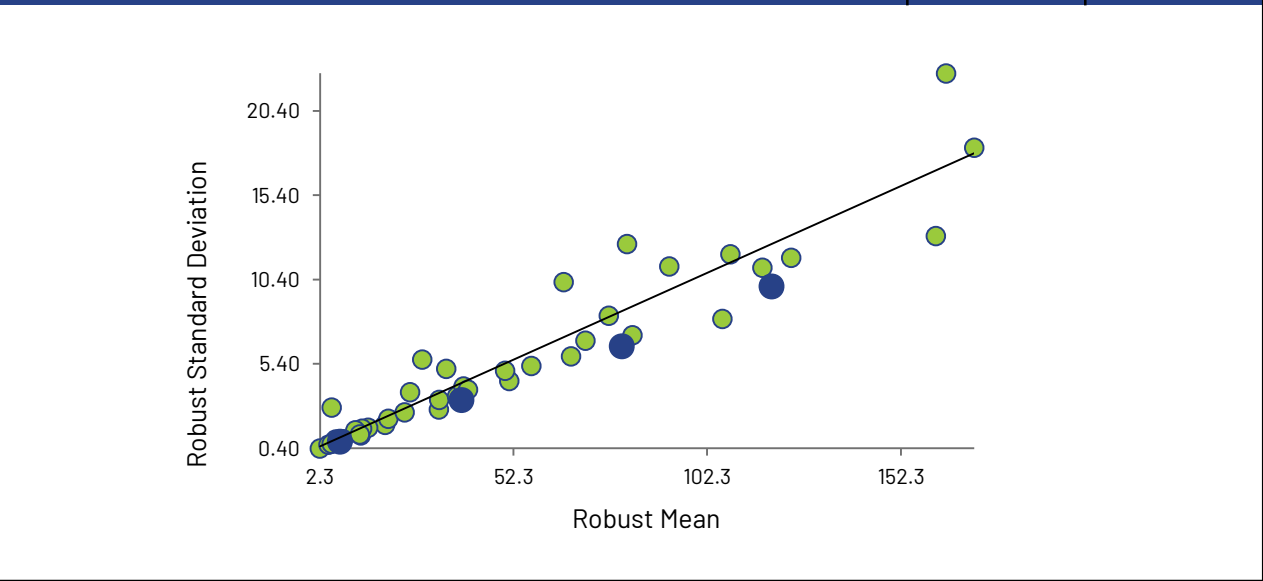
1,1,2-Trichloroethane



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,1-Dichloroethane

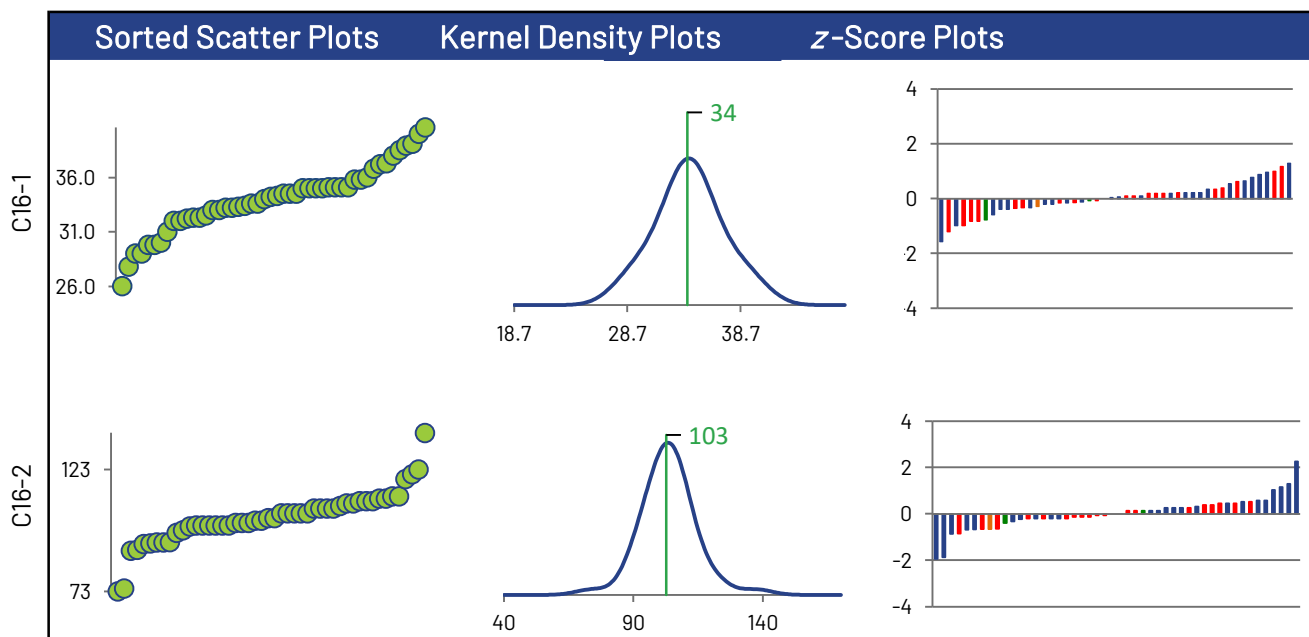
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	48	48	47	48
Median µg/L	34.3	103	6.68	58.9
Robust Mean µg/L	34.0	103	6.65	58.8
Uncertainty of the Assigned Value µg/L	0.545	1.49	0.141	0.927
Robust Standard Deviation µg/L	3.02	8.28	0.773	5.14
Regression Standard Deviation µg/L	5.11	15.5	0.998	8.82
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	5.11	15.5	0.998	8.82
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	1	2	0
Failure Rate %*	0.0			

Methods Used

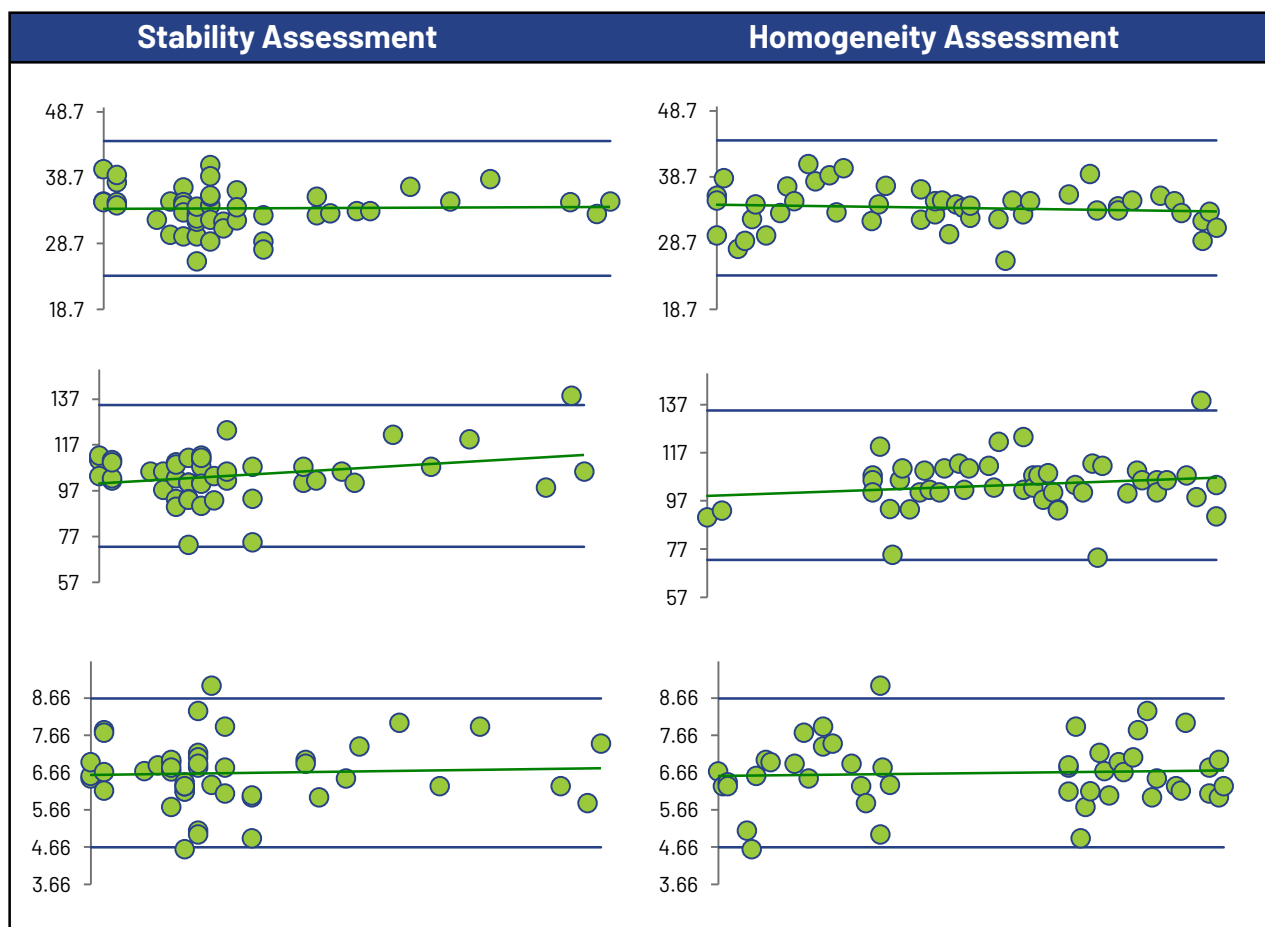
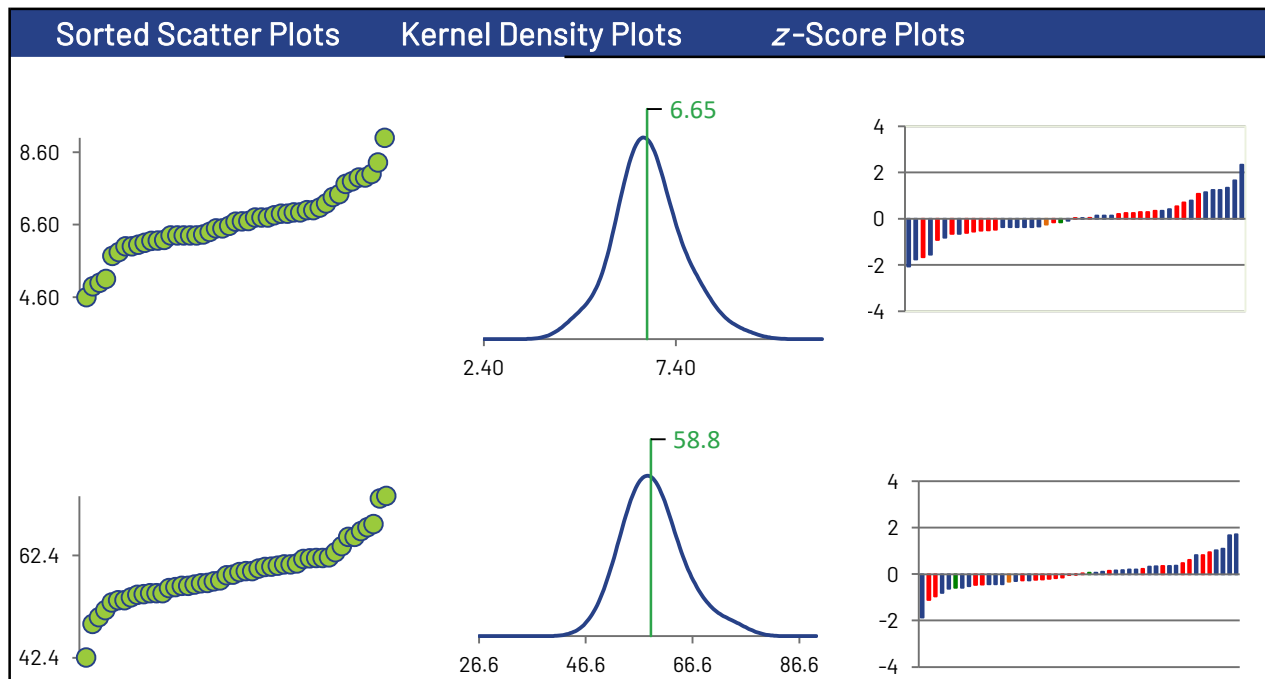
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	25	25	25	25
GC/MS - HEADSPACE (Red)	20	20	20	20
GC/MS (Green)	2	2	1	2
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

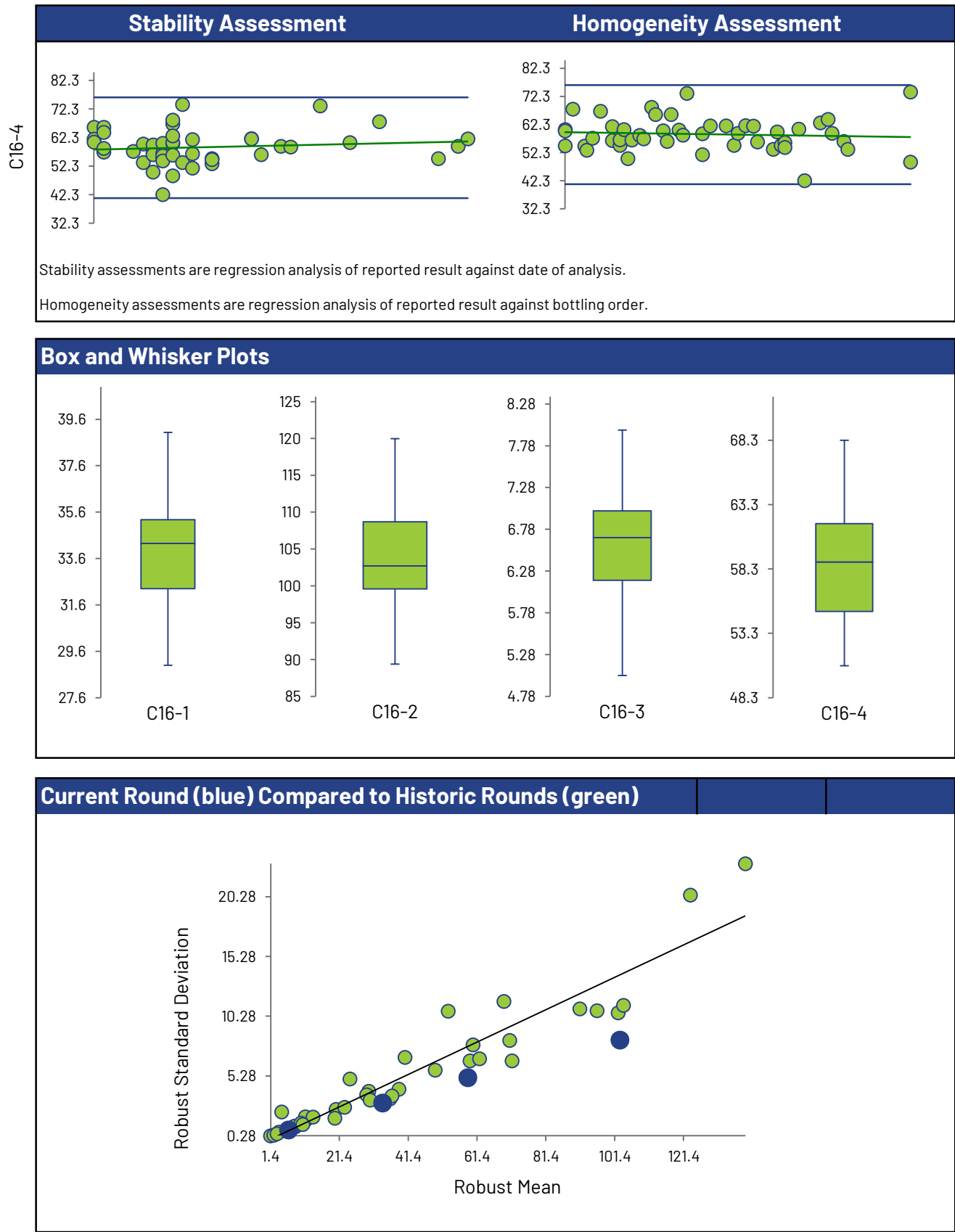


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

1,1-Dichloroethane



1,1-Dichloroethane



1,1-dichloroethylene

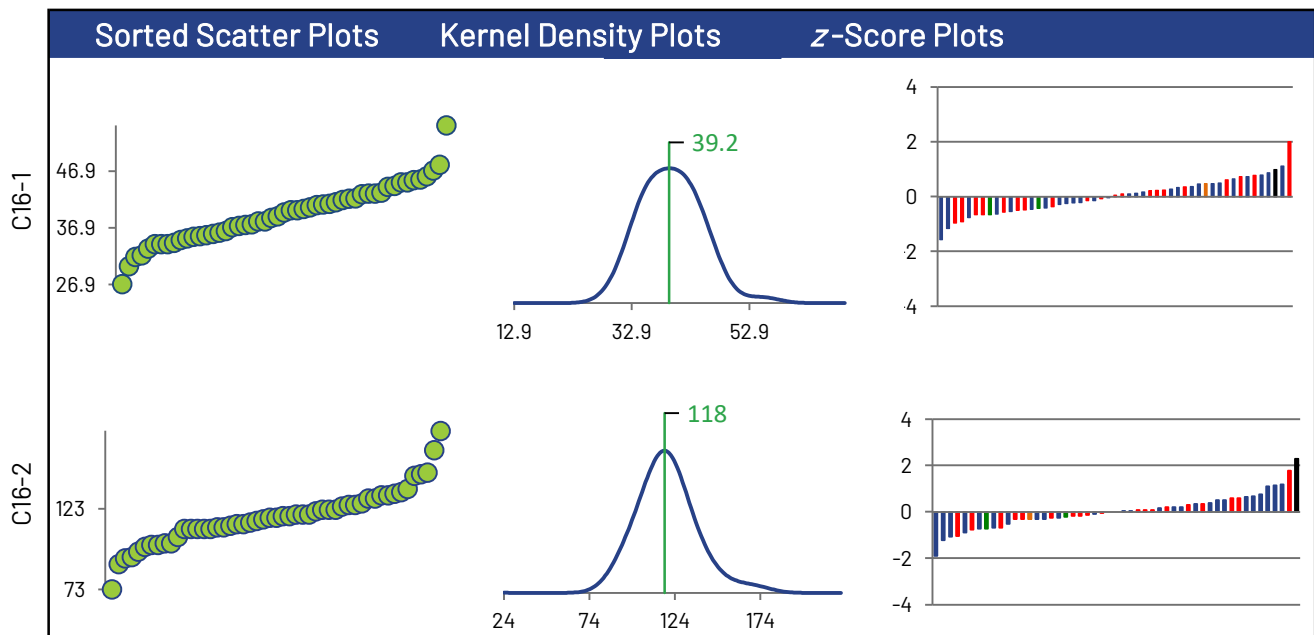
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	51	51	51	51
Median µg/L	39.6	118	8.00	35.6
Robust Mean µg/L	39.2	118	7.97	36.2
Uncertainty of the Assigned Value µg/L	0.889	2.64	0.170	0.840
Robust Standard Deviation µg/L	5.08	15.1	0.972	4.80
Regression Standard Deviation µg/L	7.85	23.6	1.59	7.23
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.85	23.6	1.59	7.23
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	1
$2 < z < 3$	1	1	0	1
Failure Rate %*	0.0			

Methods Used

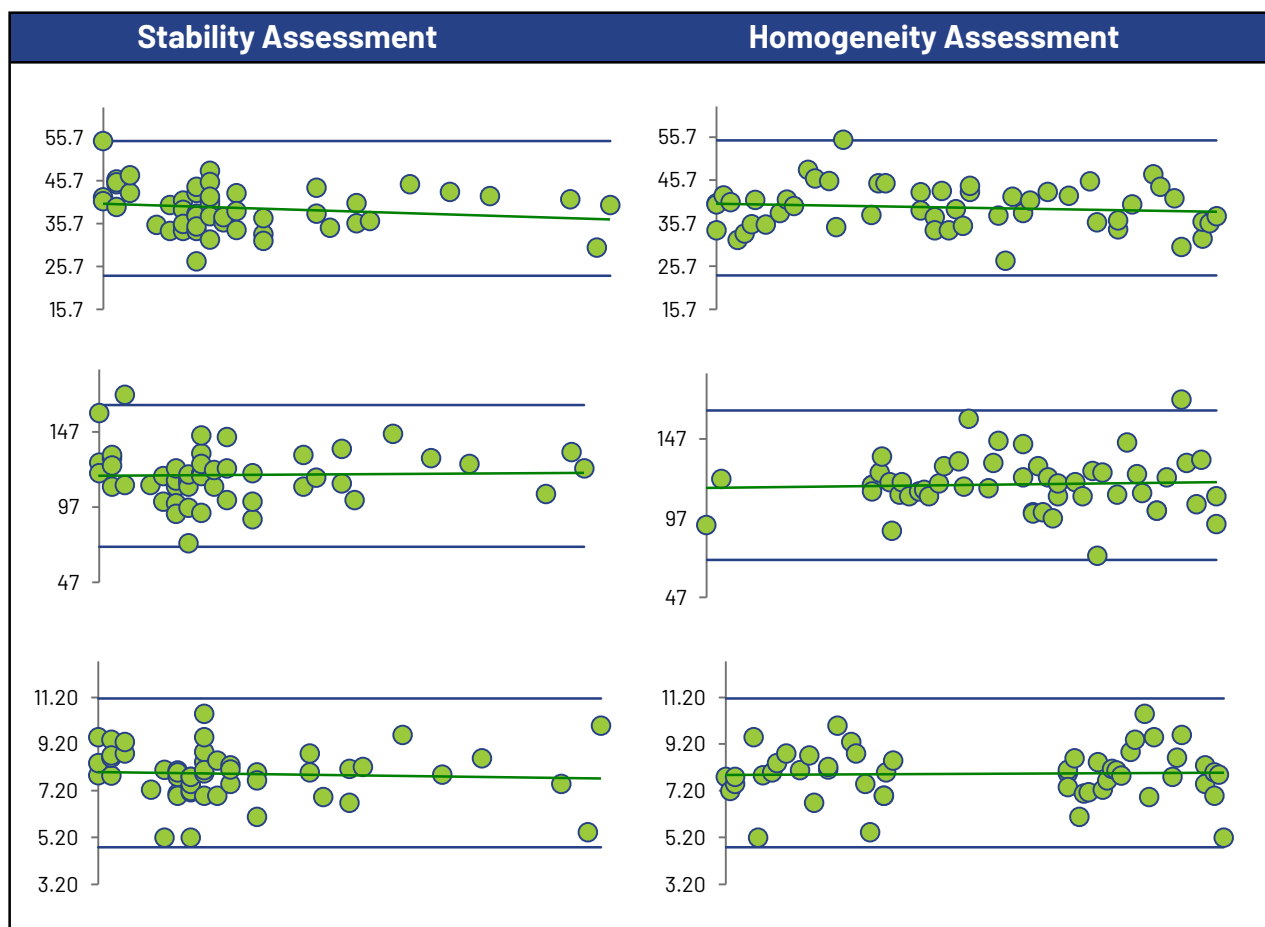
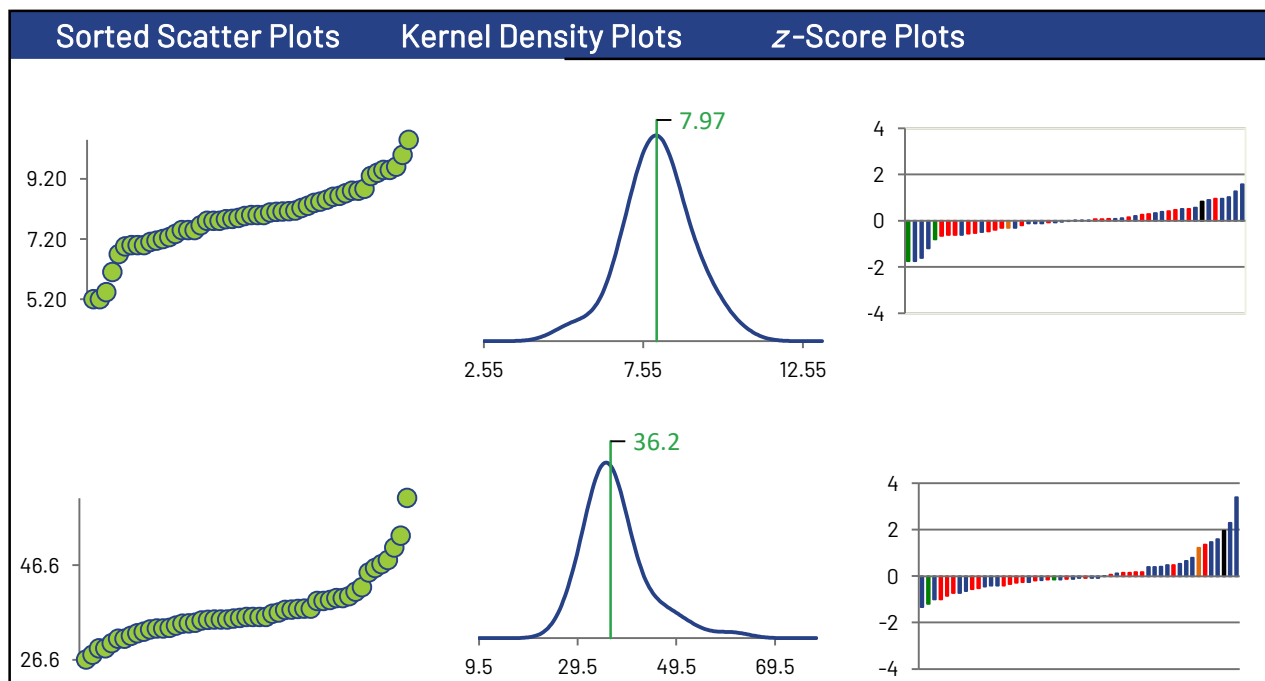
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	27	27	27	27
GC/MS - HEADSPACE (Red)	20	20	20	20
GC/MS (Green)	2	2	2	2
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

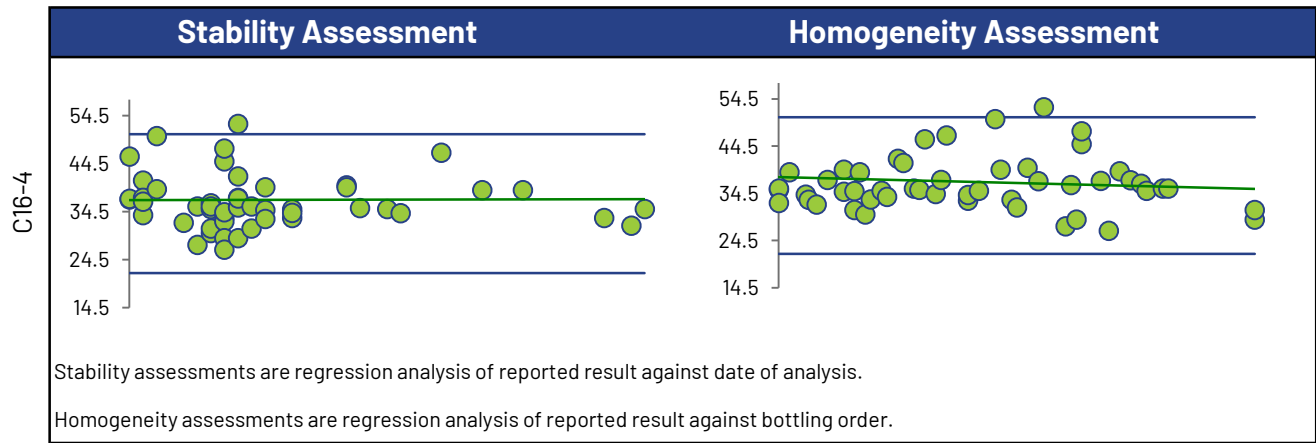


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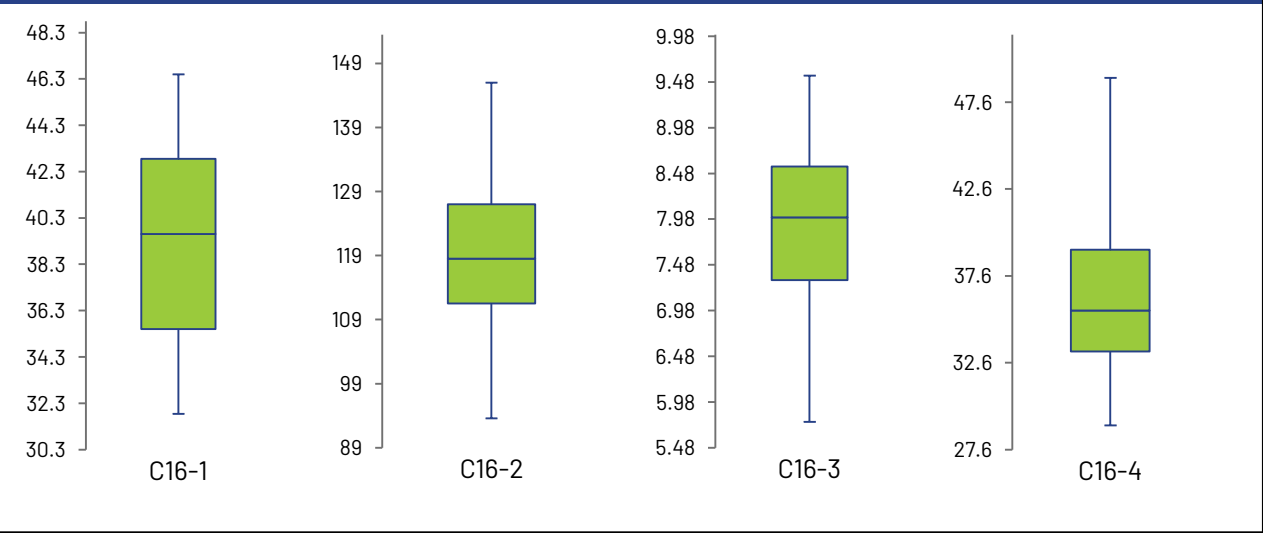
1,1-dichloroethylene



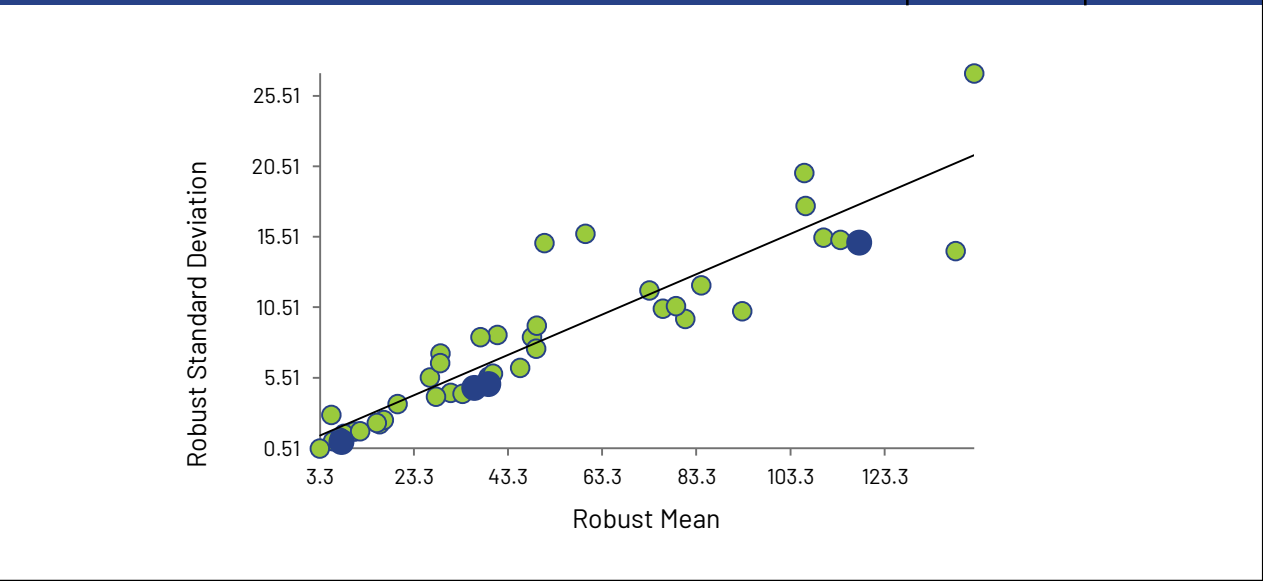
1,1-dichloroethylene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,2-Dichlorobenzene

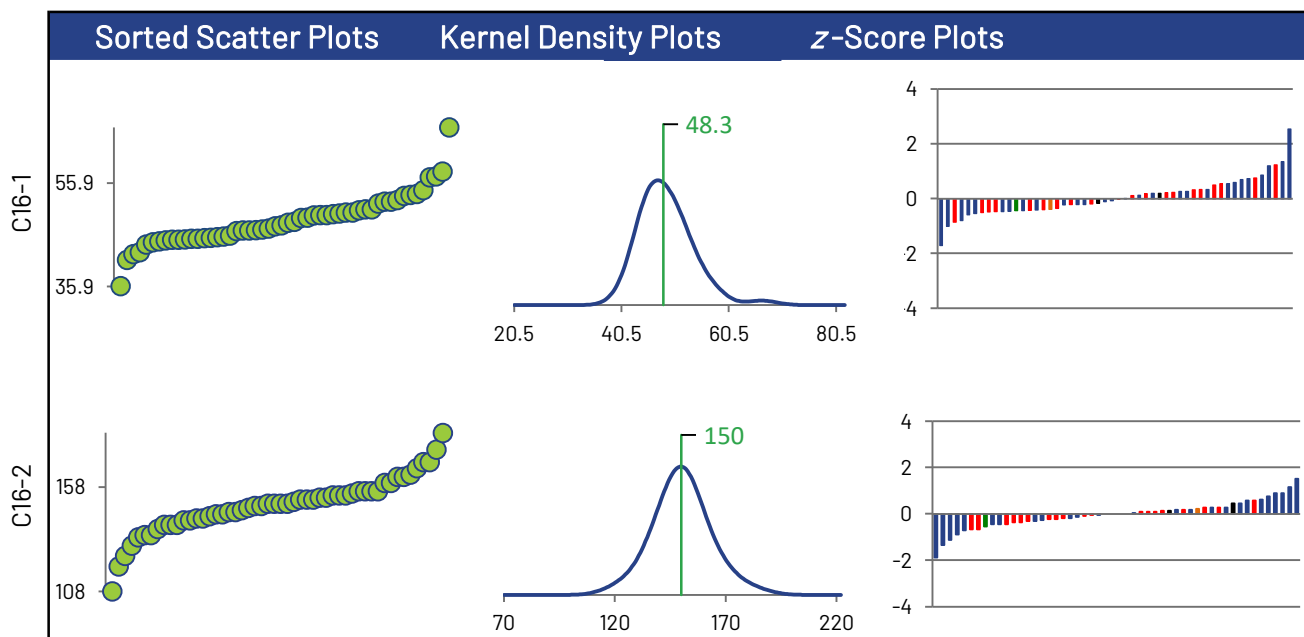
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	52	52	52	52
Median µg/L	48.0	150	9.30	74.7
Robust Mean µg/L	48.3	150	9.29	74.8
Uncertainty of the Assigned Value µg/L	0.733	1.96	0.224	1.12
Robust Standard Deviation µg/L	4.23	11.3	1.29	6.48
Regression Standard Deviation µg/L	7.25	22.4	1.39	11.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.25	22.4	1.39	11.2
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	1	0
$2 < z < 3$	1	0	3	0
Failure Rate %*	0.0			

Methods Used

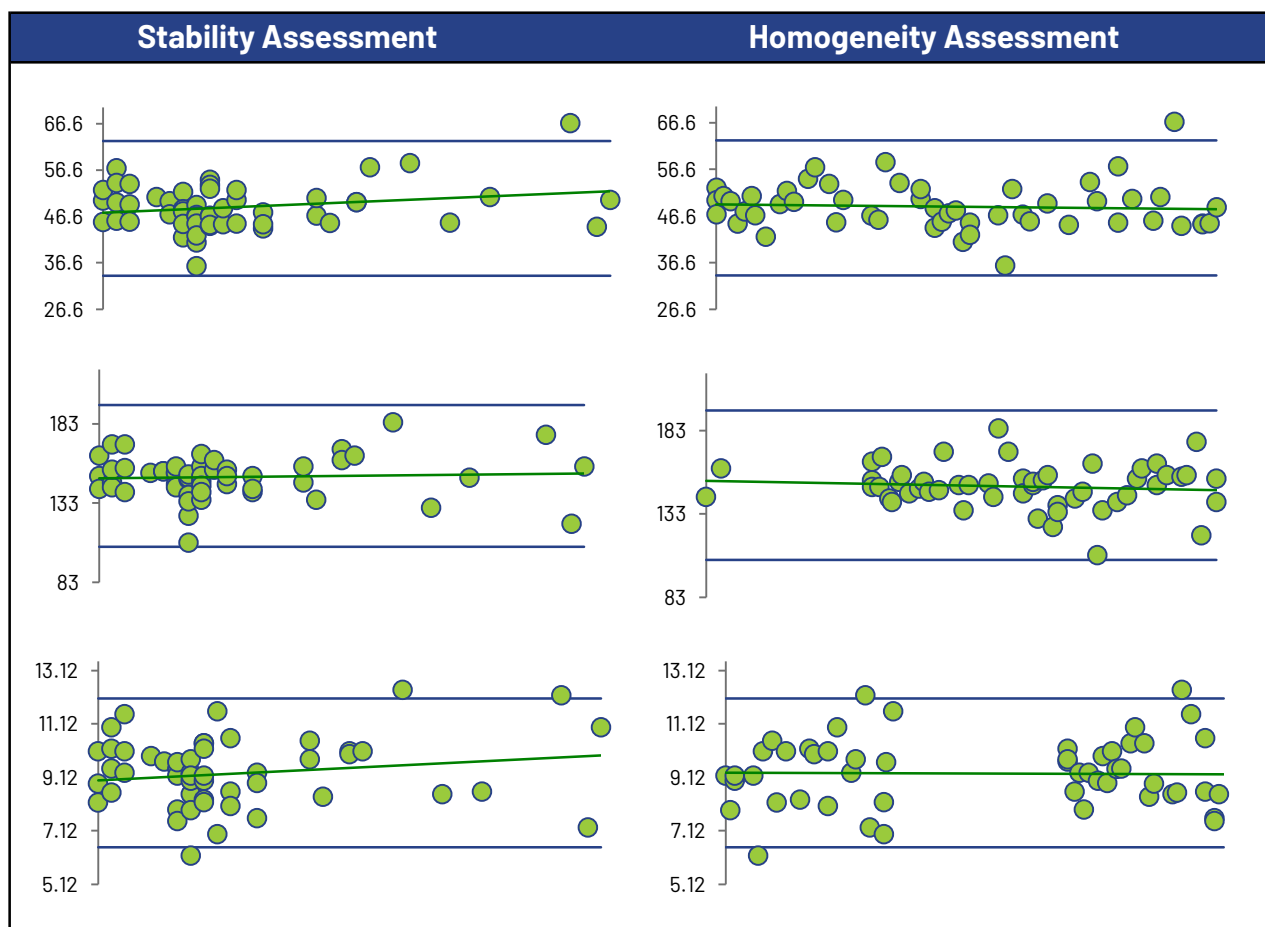
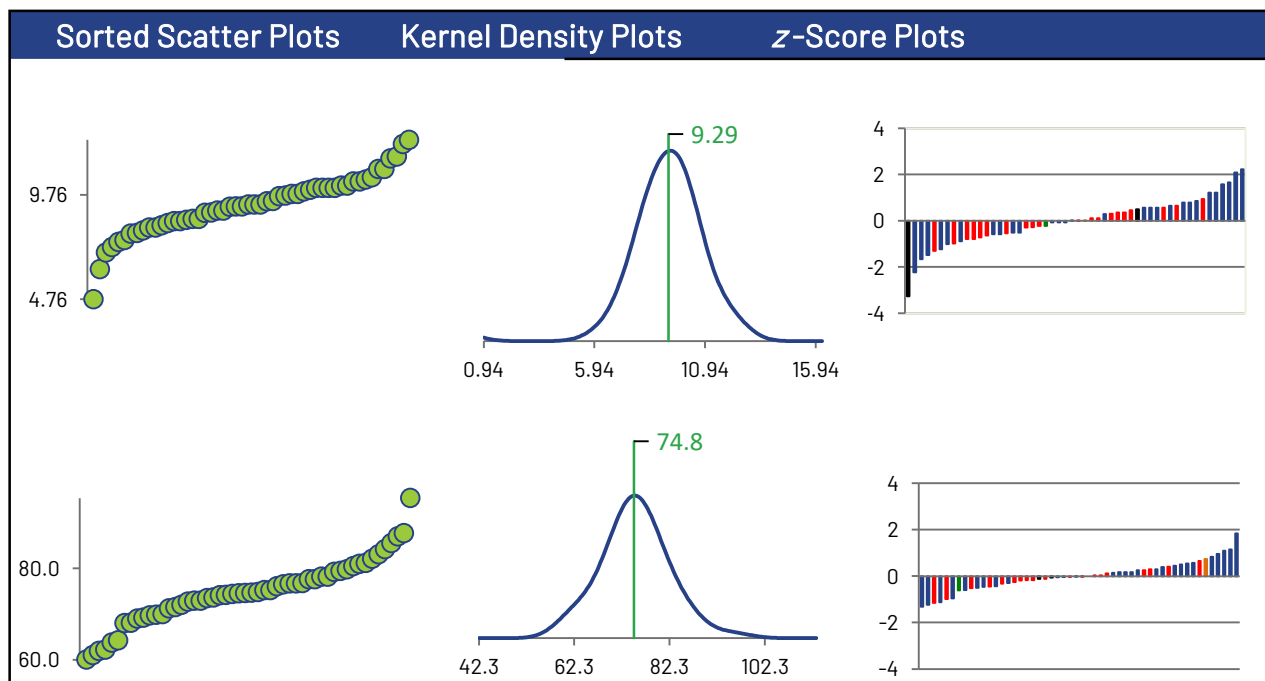
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	28	28	28	28
GC/MS - HEADSPACE (Red)	20	20	20	20
GC/FID - PURGE AND TRAP (Green)	1	1	1	1
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/MS (Black)	2	2	2	2

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

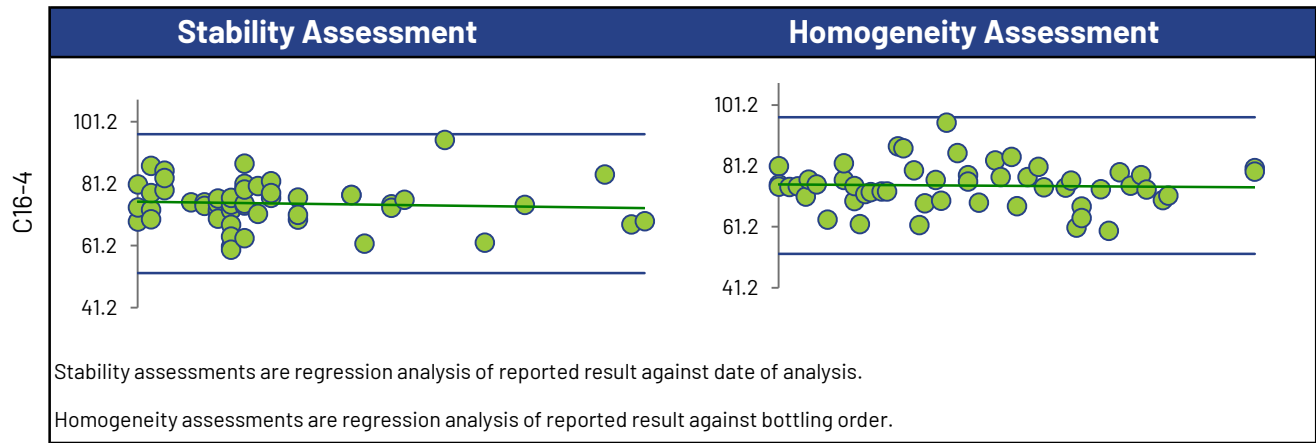


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

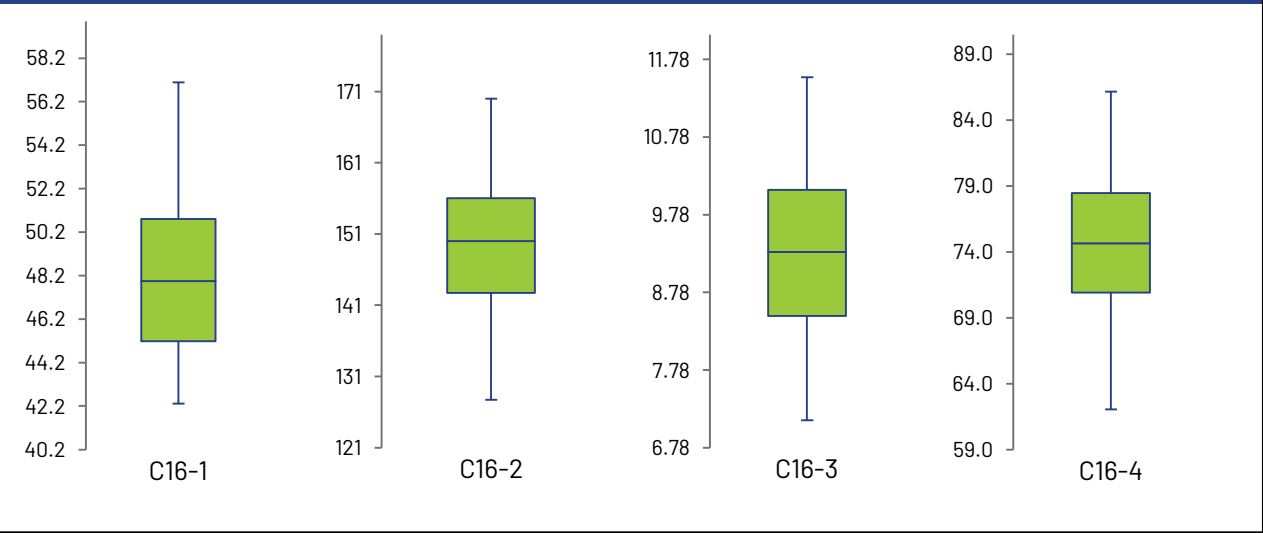
1,2-Dichlorobenzene



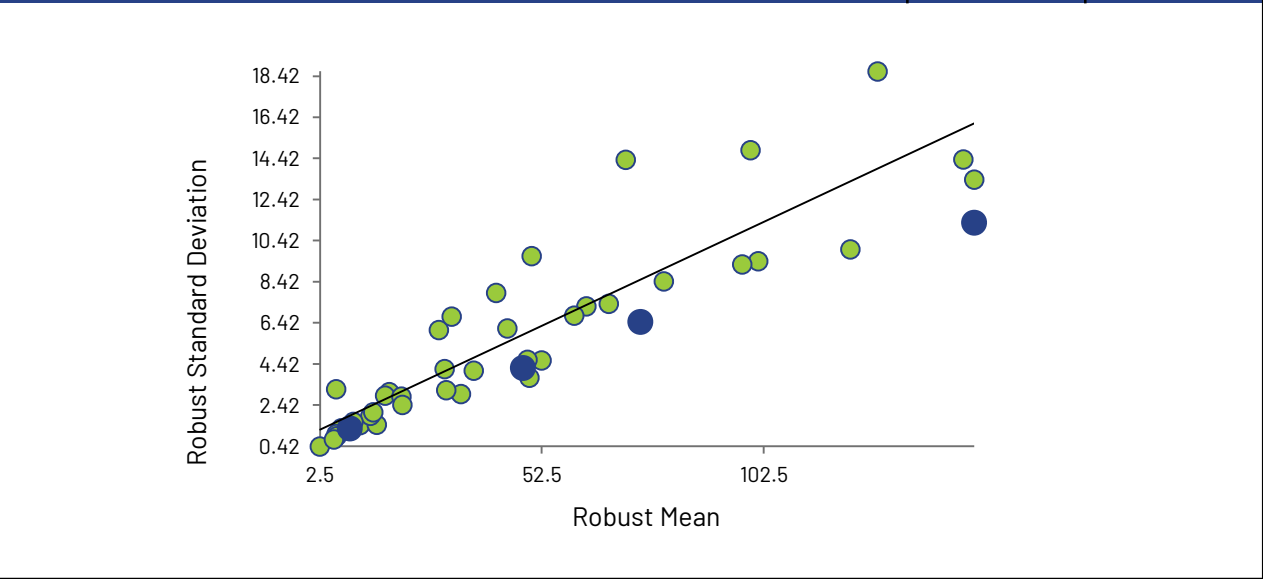
1,2-Dichlorobenzene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,2-Dichloroethane

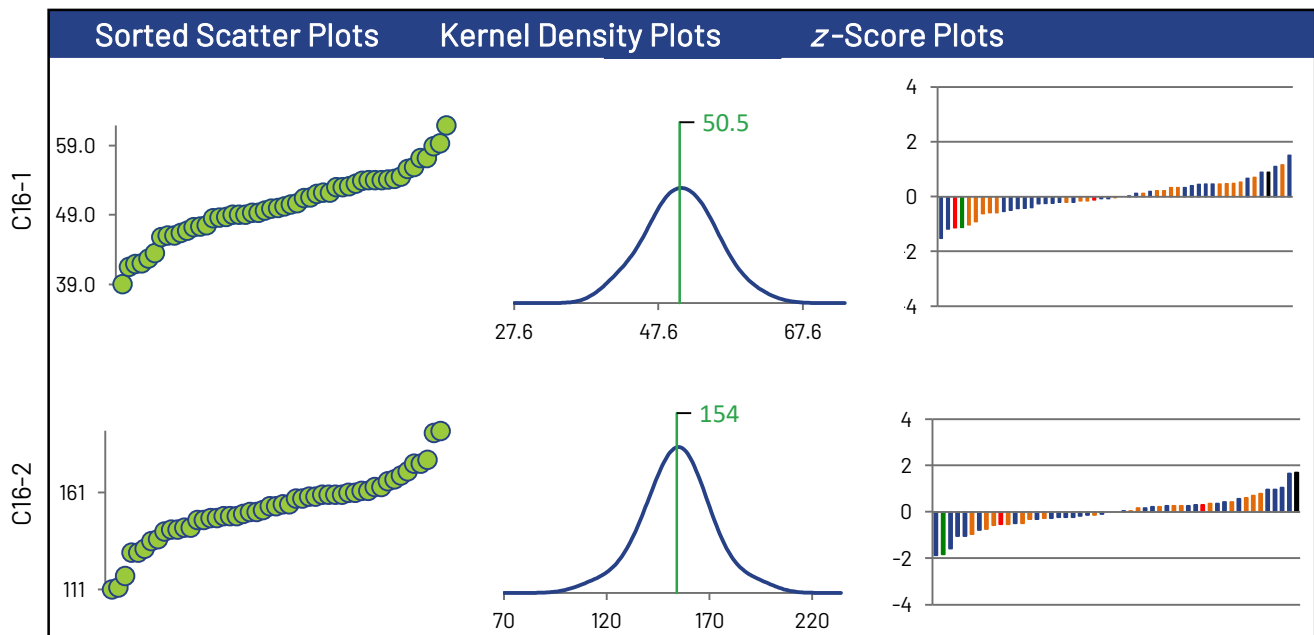
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	51	51	51	51
Median µg/L	50.2	154	10.0	72.5
Robust Mean µg/L	50.5	154	9.88	72.4
Uncertainty of the Assigned Value µg/L	0.830	2.63	0.134	1.02
Robust Standard Deviation µg/L	4.74	15.0	0.768	5.81
Regression Standard Deviation µg/L	7.57	23.0	1.48	10.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.57	23.0	1.48	10.9
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	2
Failure Rate %*	0.0			

Methods Used

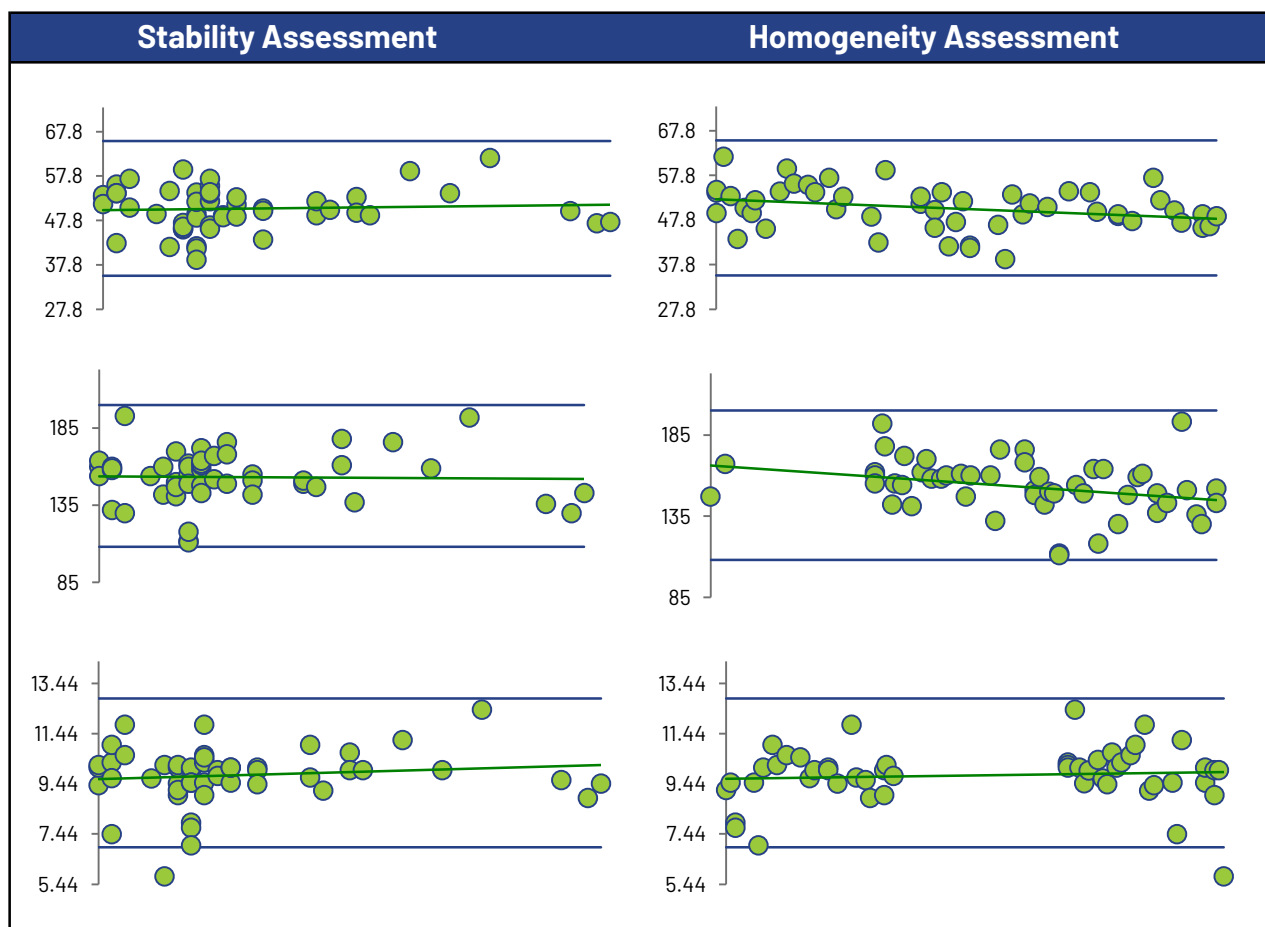
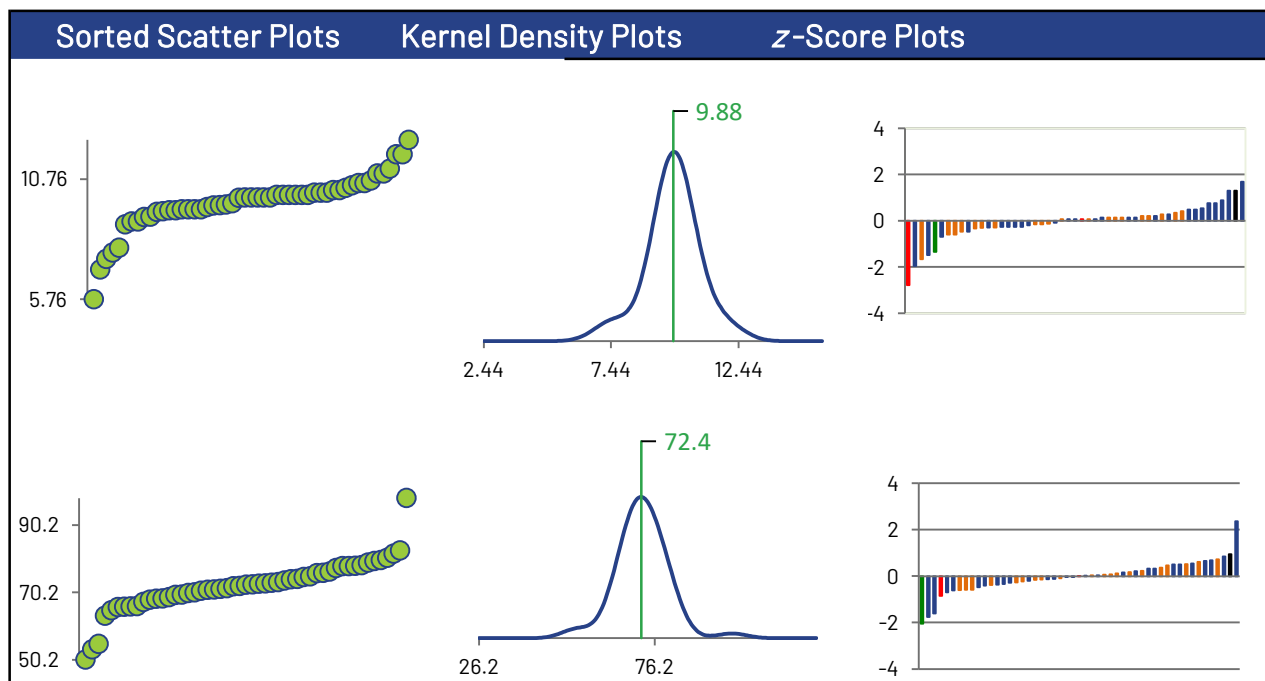
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	27	27	27	27
GC/MS (Red)	2	2	2	2
GC/FID - PURGE AND TRAP (Green)	1	1	1	1
GC/MS - HEADSPACE (Orange)	20	20	20	20
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

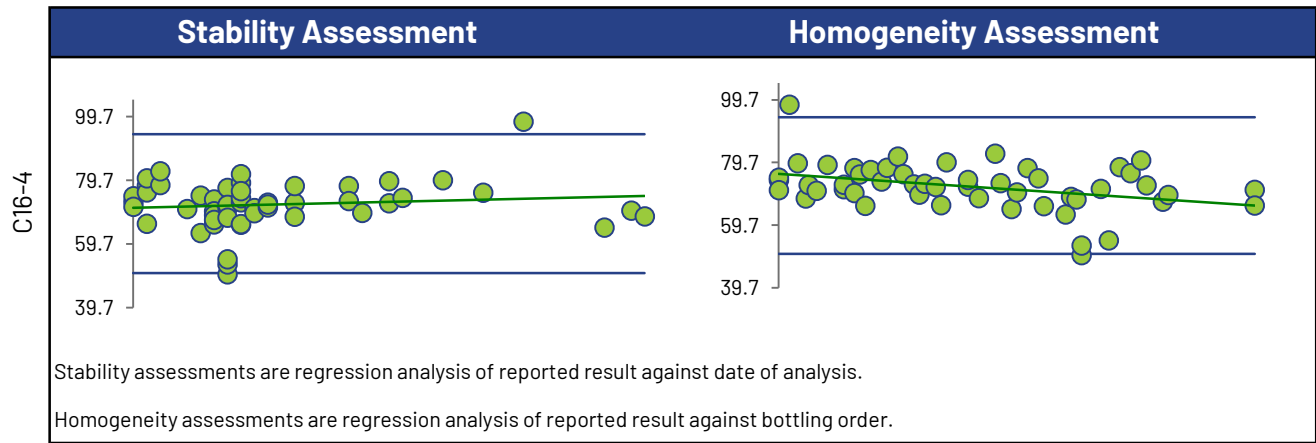


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

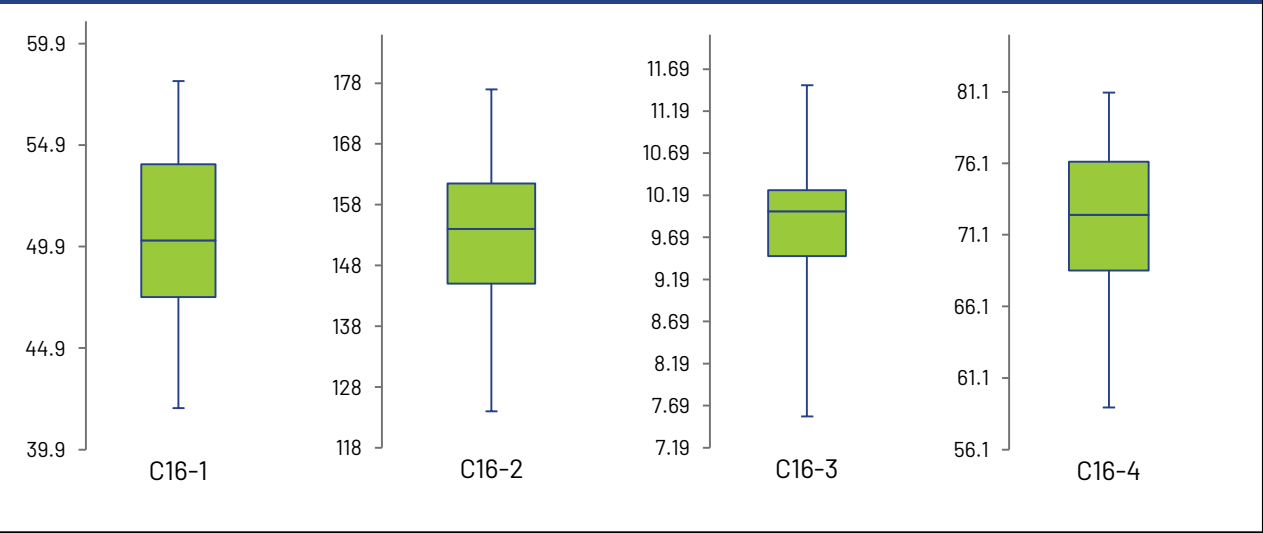
1,2-Dichloroethane



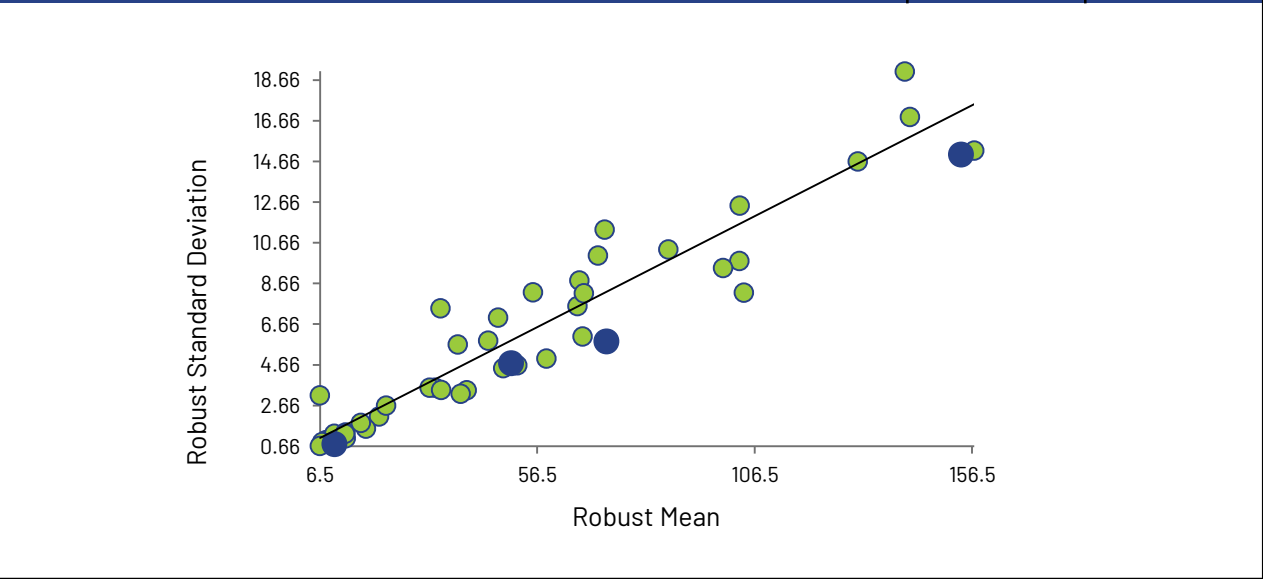
1,2-Dichloroethane



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,2-Dichloropropane

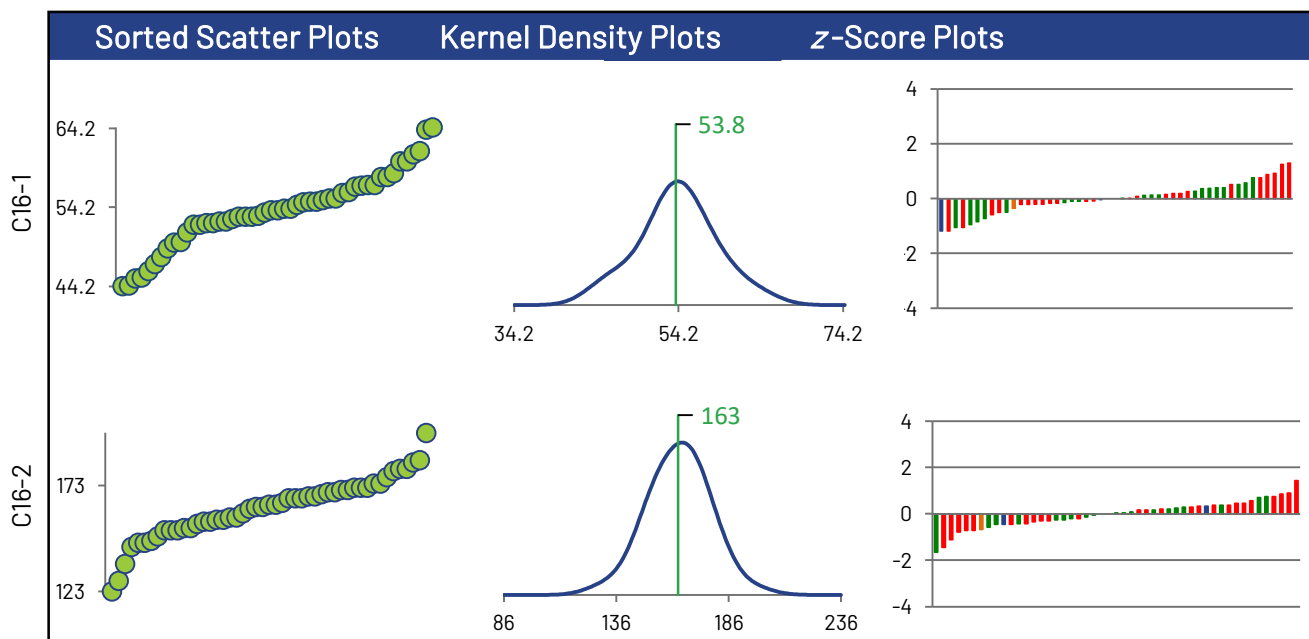
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	49	49	49	49
Median µg/L	53.8	164	10.1	72.7
Robust Mean µg/L	53.8	163	10.2	71.8
Uncertainty of the Assigned Value µg/L	0.816	2.38	0.204	0.916
Robust Standard Deviation µg/L	4.57	13.3	1.14	5.13
Regression Standard Deviation µg/L	8.08	24.4	1.53	10.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	8.08	24.4	1.53	10.8
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	0
Failure Rate %*	0.0			

Methods Used

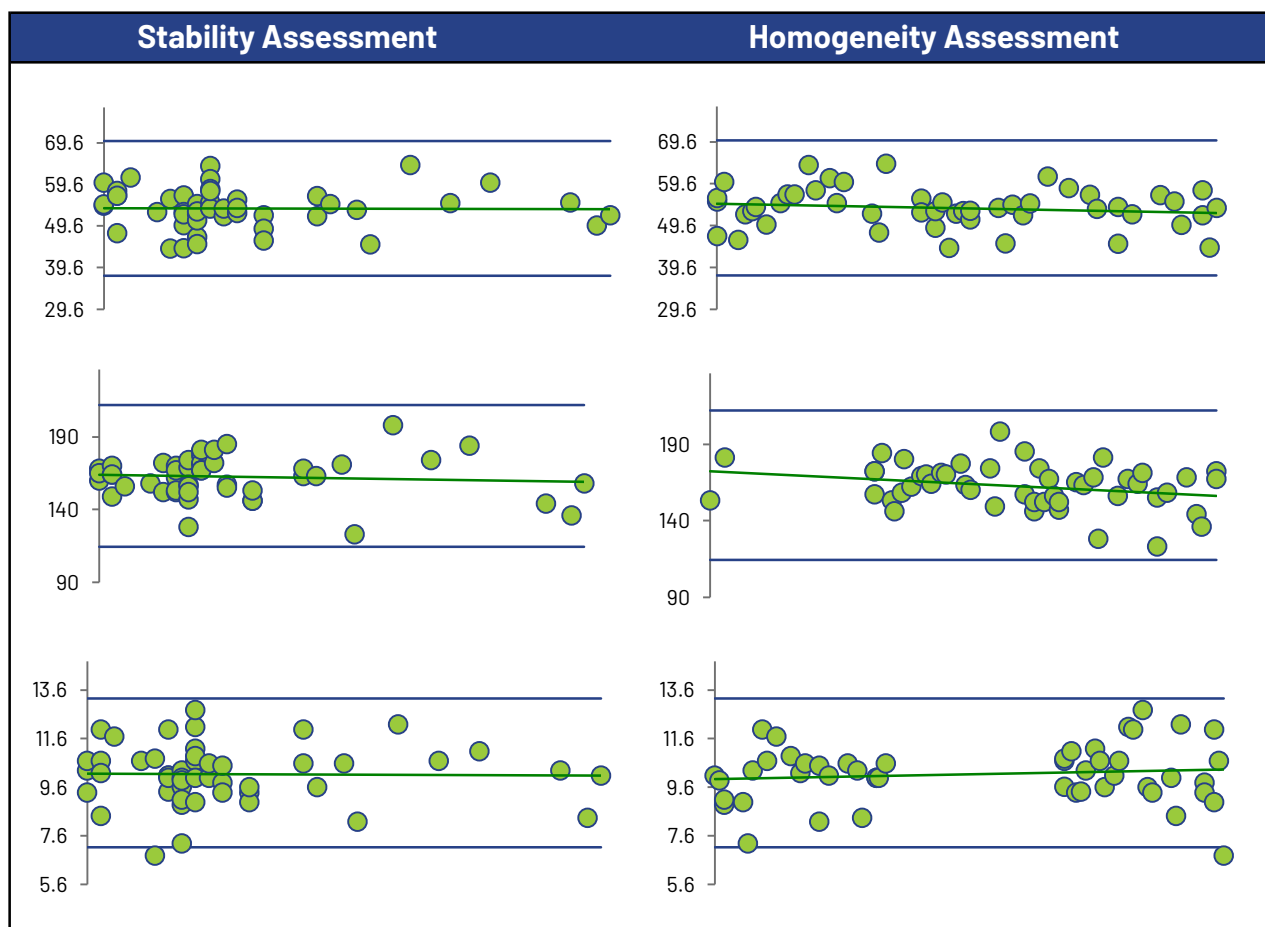
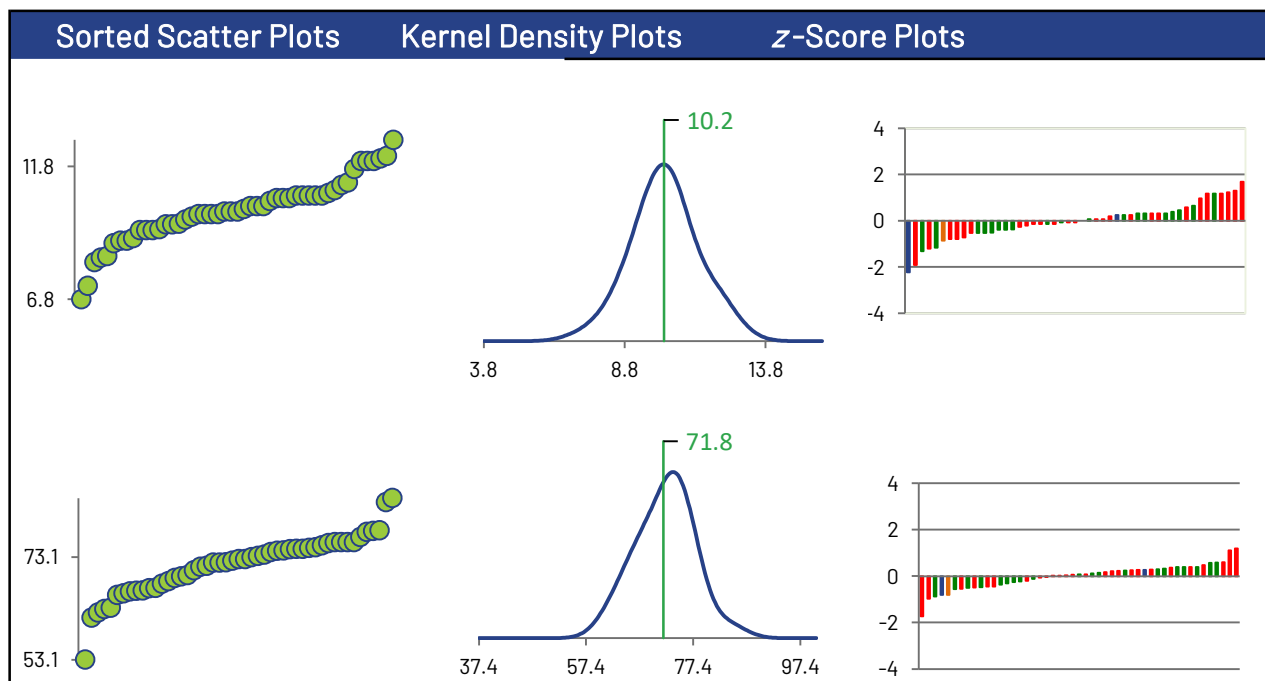
Method	C16-1	C16-2	C16-3	C16-4
GC/MS (Blue)	2	2	2	2
GC/MS - PURGE AND TRAP (Red)	26	26	26	26
GC/MS - HEADSPACE (Green)	20	20	20	20
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

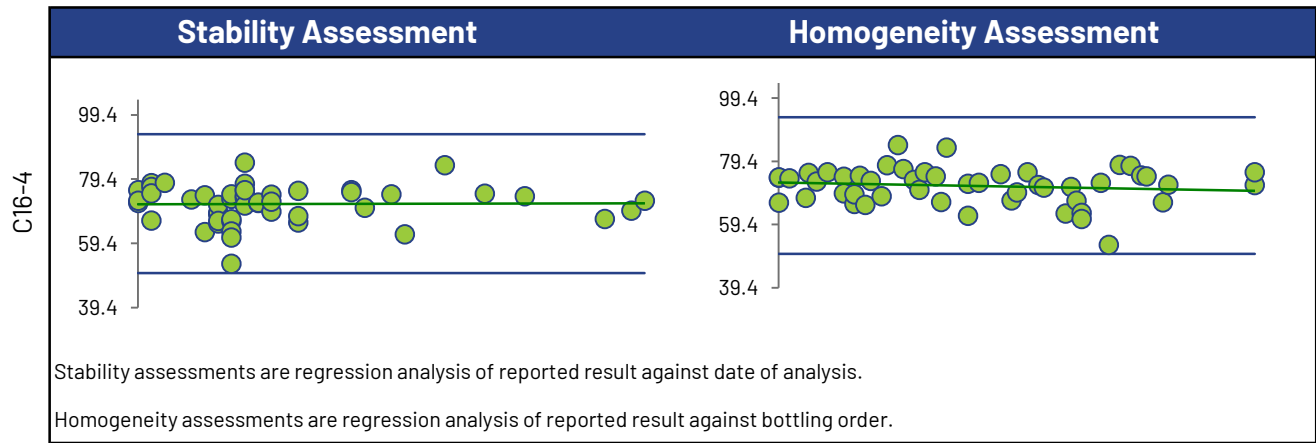


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

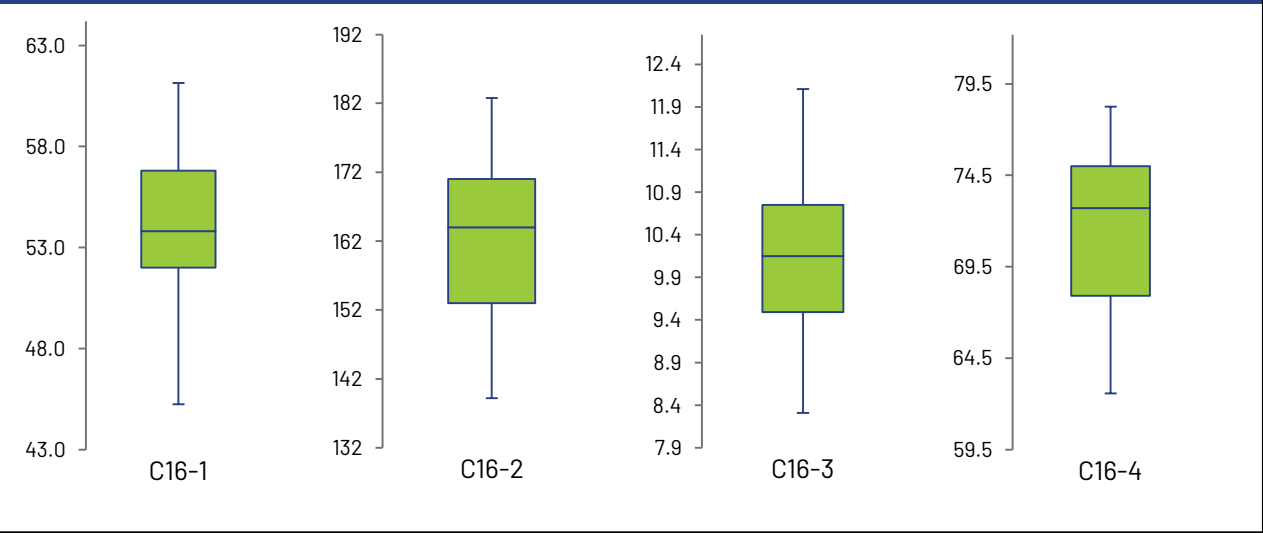
1,2-Dichloropropane



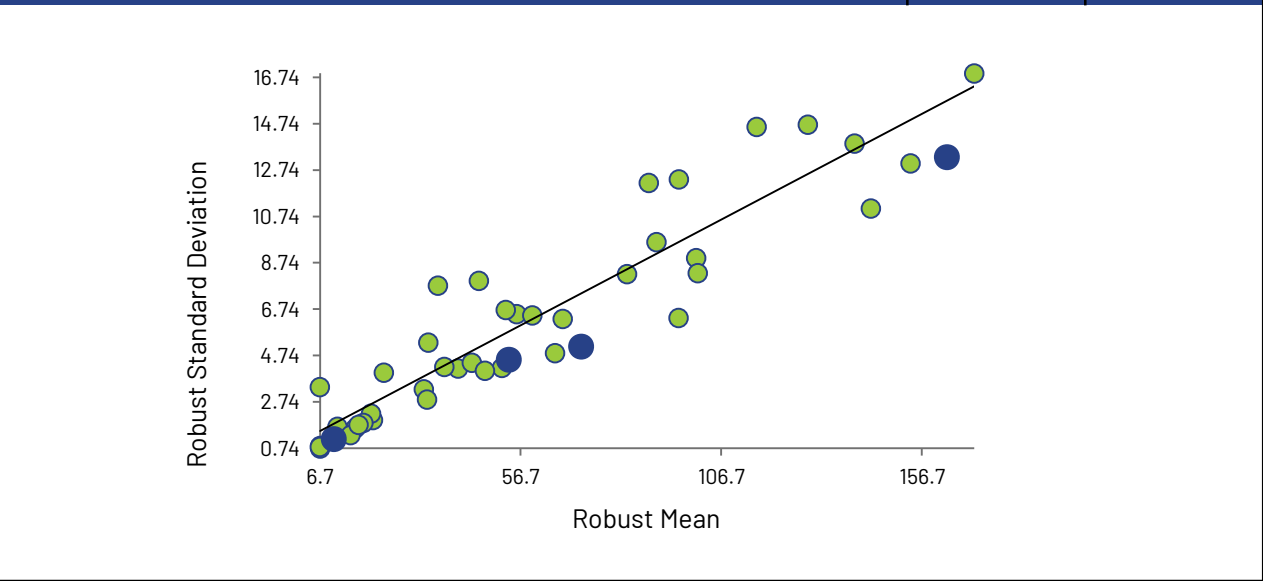
1,2-Dichloropropane



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,3-Dichlorobenzene

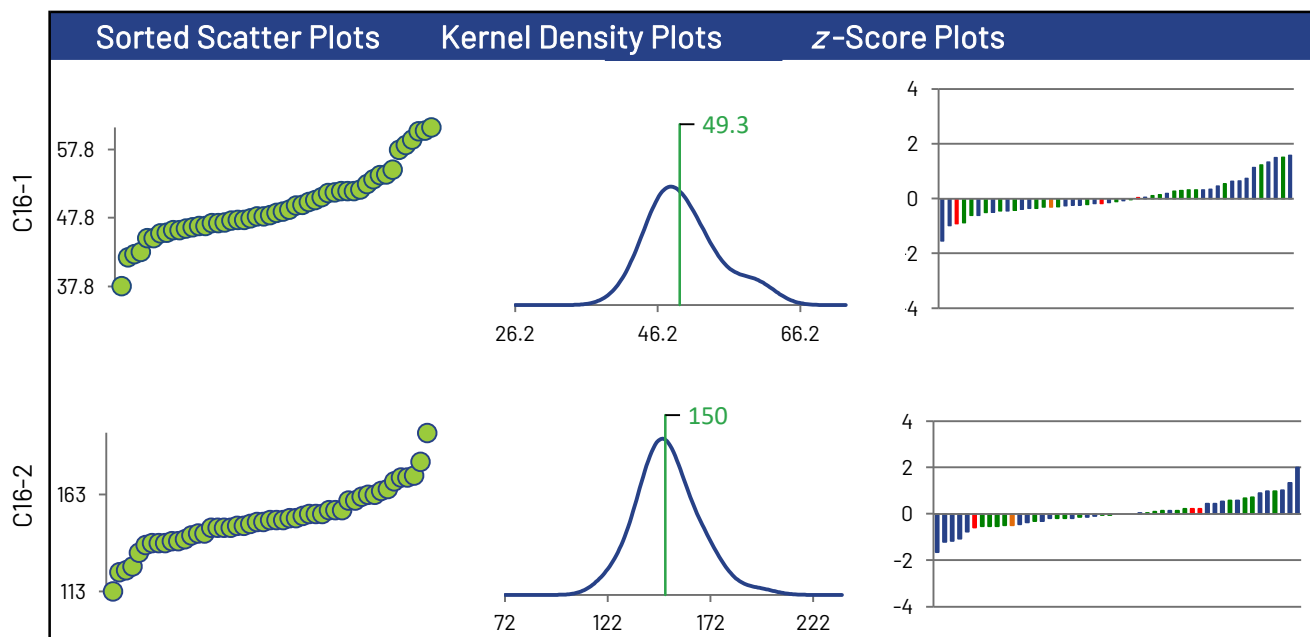
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	49	49	48	49
Median µg/L	48.5	150	9.50	70.5
Robust Mean µg/L	49.3	150	9.51	71.7
Uncertainty of the Assigned Value µg/L	0.798	2.43	0.217	1.30
Robust Standard Deviation µg/L	4.47	13.6	1.20	7.27
Regression Standard Deviation µg/L	7.40	22.5	1.43	10.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.40	22.5	1.43	10.7
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	3	0
Failure Rate %*	0.0			

Methods Used

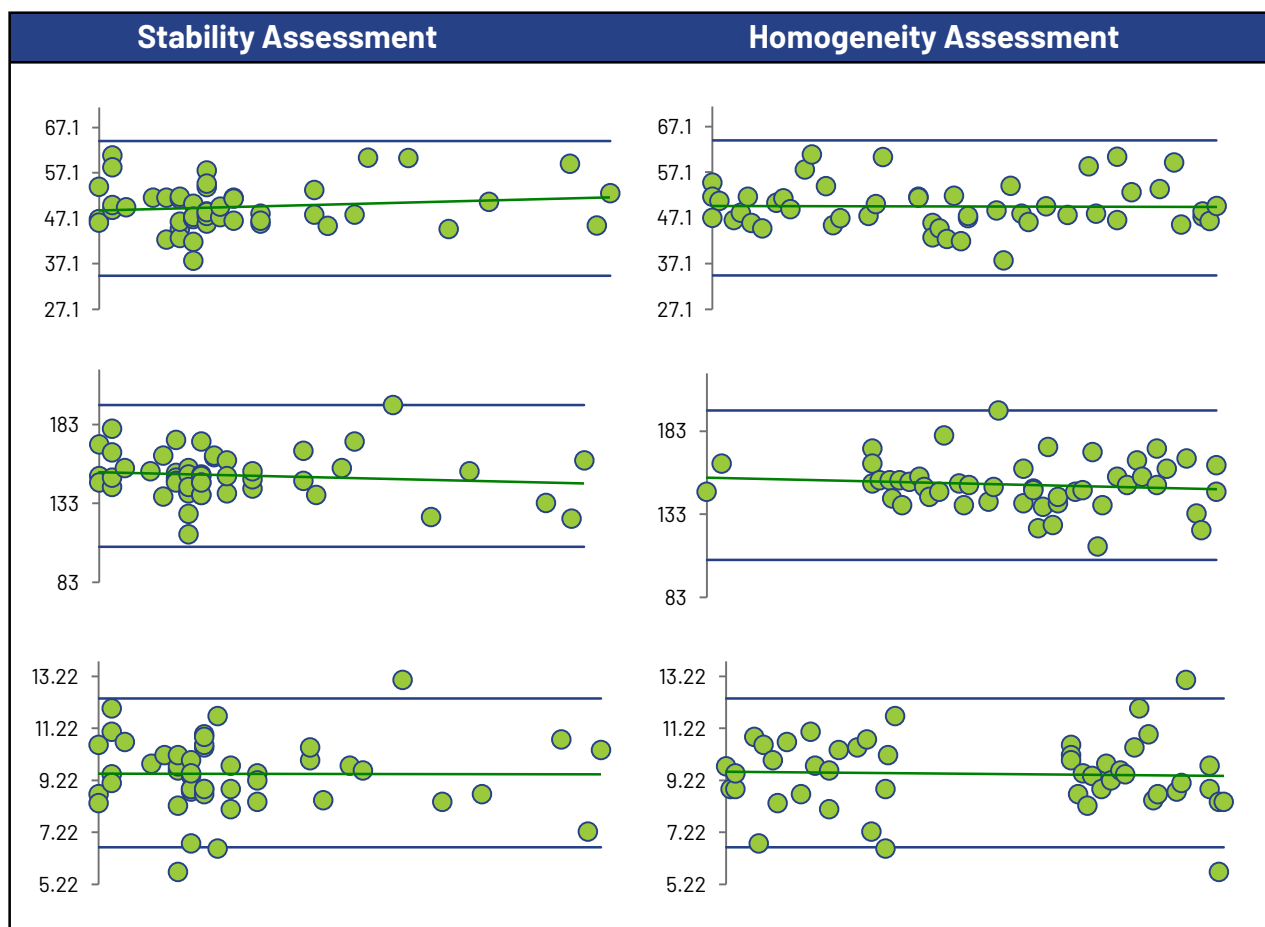
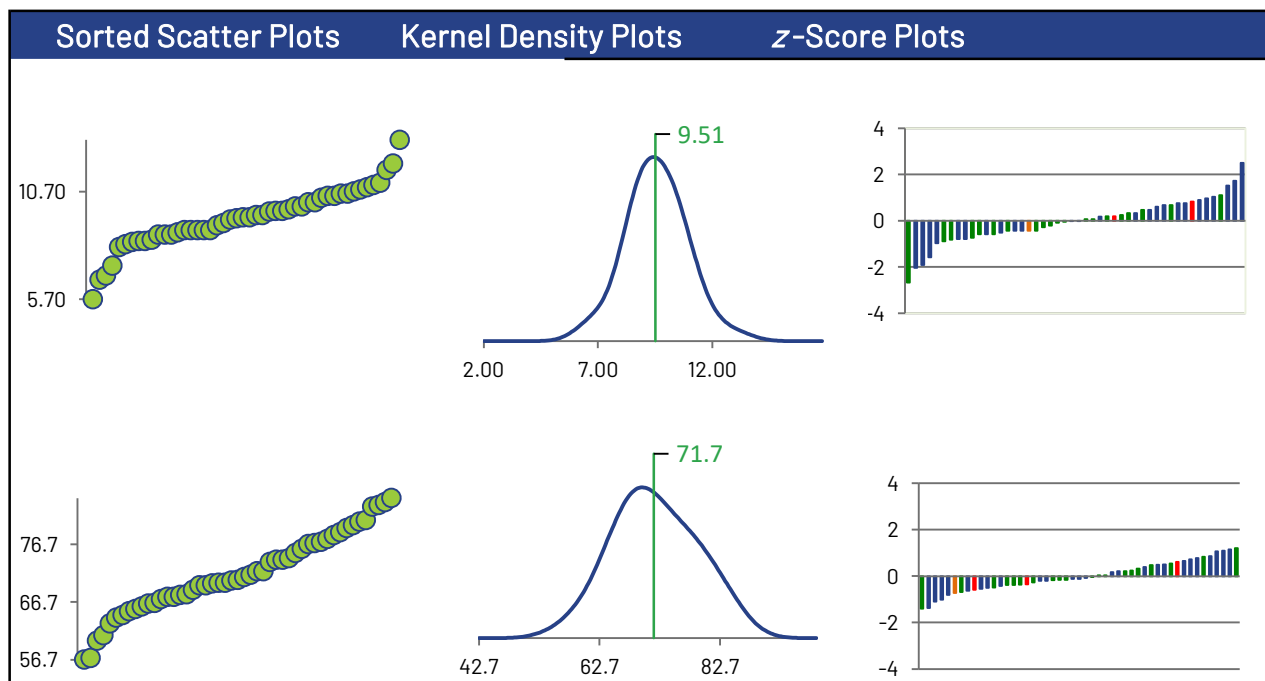
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	25	25	25	25
GC/MS (Red)	3	3	2	3
GC/MS - HEADSPACE (Green)	20	20	20	20
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

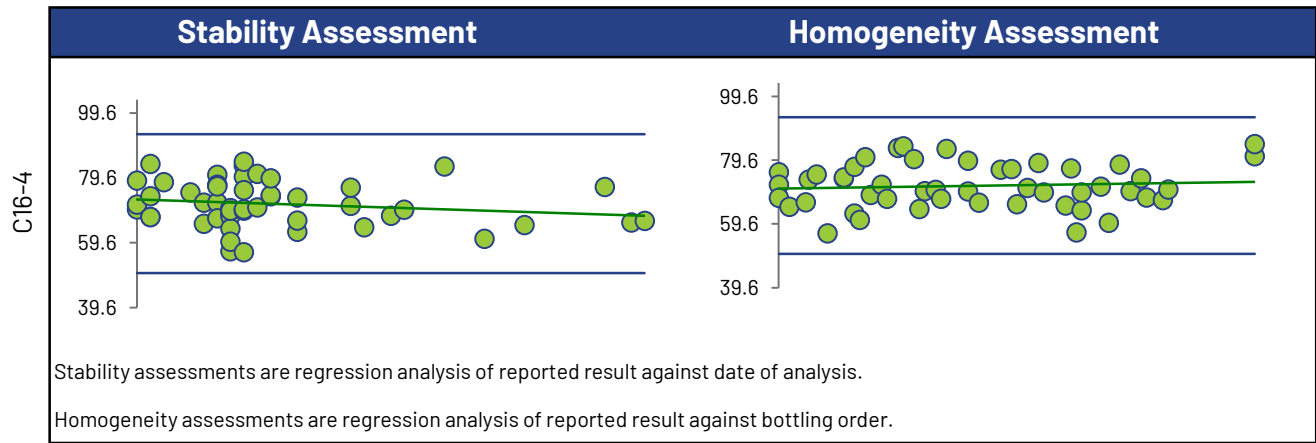


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

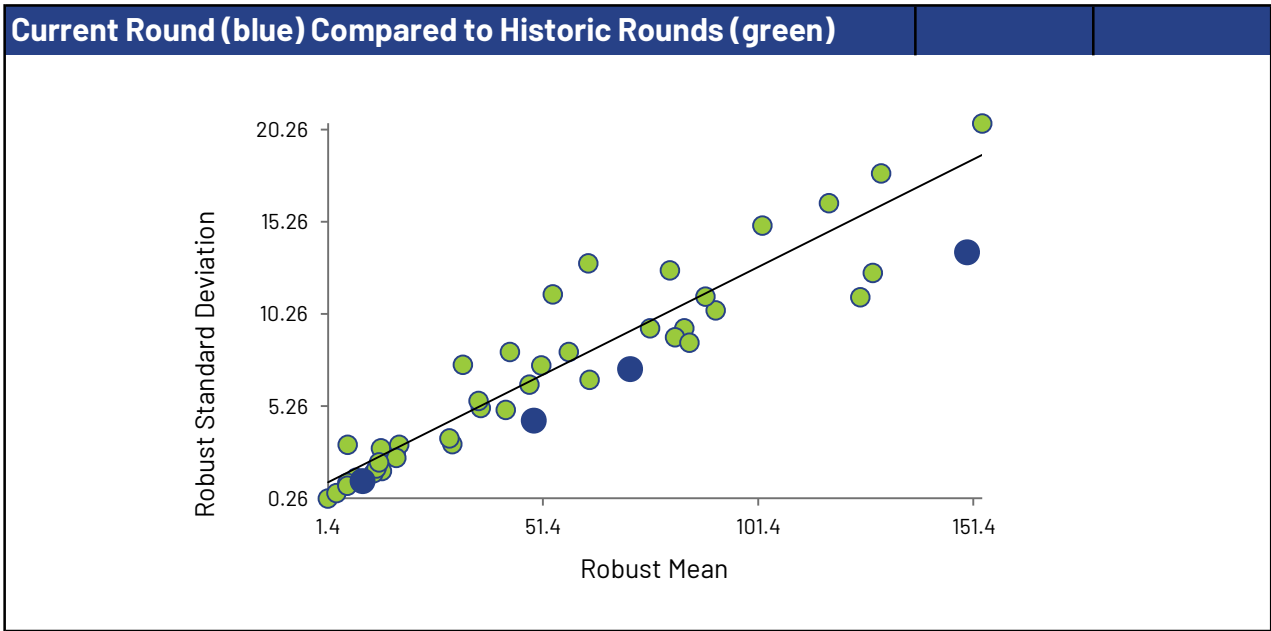
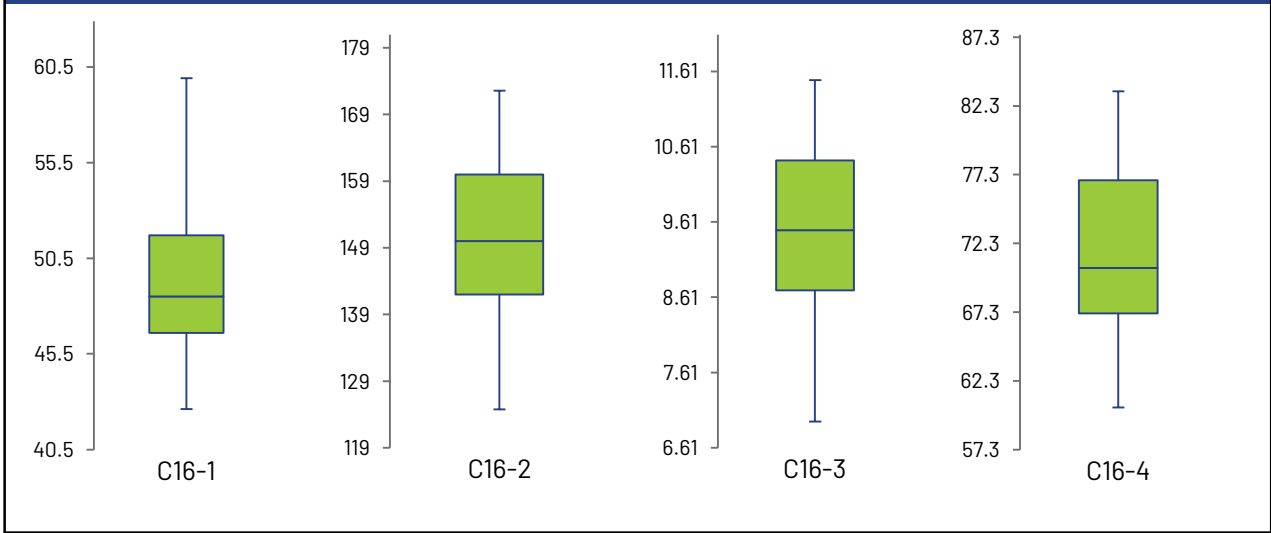
1,3-Dichlorobenzene



1,3-Dichlorobenzene



Box and Whisker Plots



1,4-Dichlorobenzene

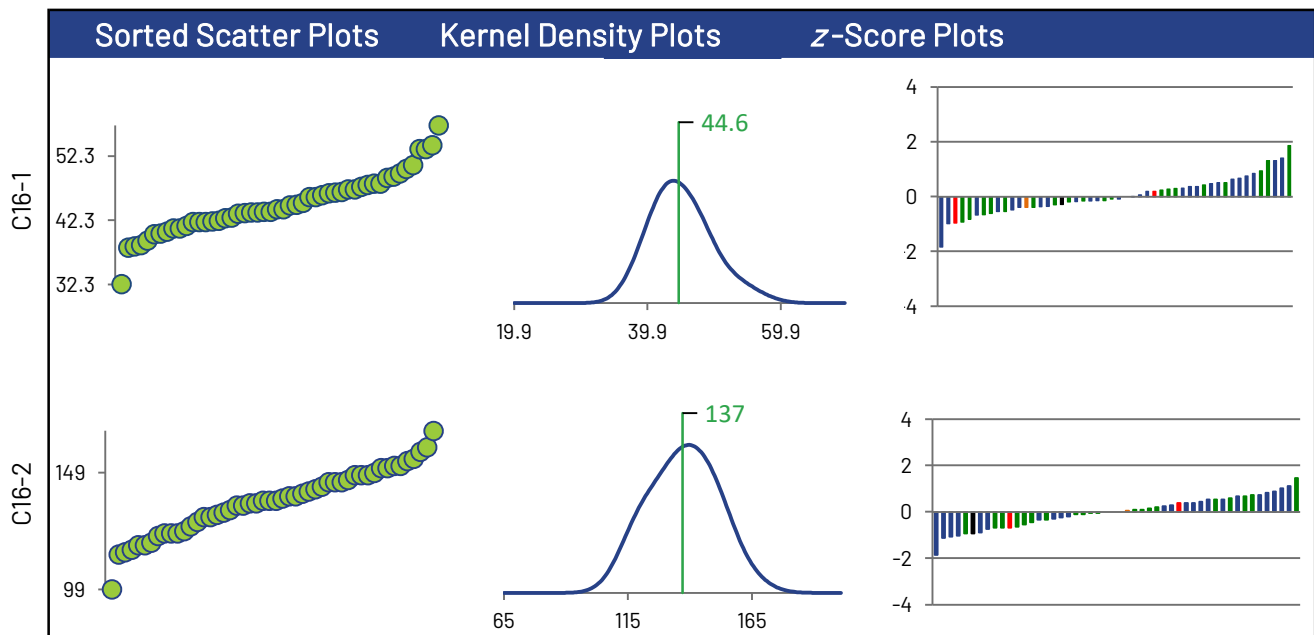
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	50	50	49	50
Median µg/L	44.0	137	8.80	71.4
Robust Mean µg/L	44.6	137	8.65	72.2
Uncertainty of the Assigned Value µg/L	0.764	2.56	0.198	1.20
Robust Standard Deviation µg/L	4.32	14.5	1.11	6.80
Regression Standard Deviation µg/L	6.69	20.5	1.30	10.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	6.69	20.5	1.30	10.8
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	0
Failure Rate %*	0.0			

Methods Used

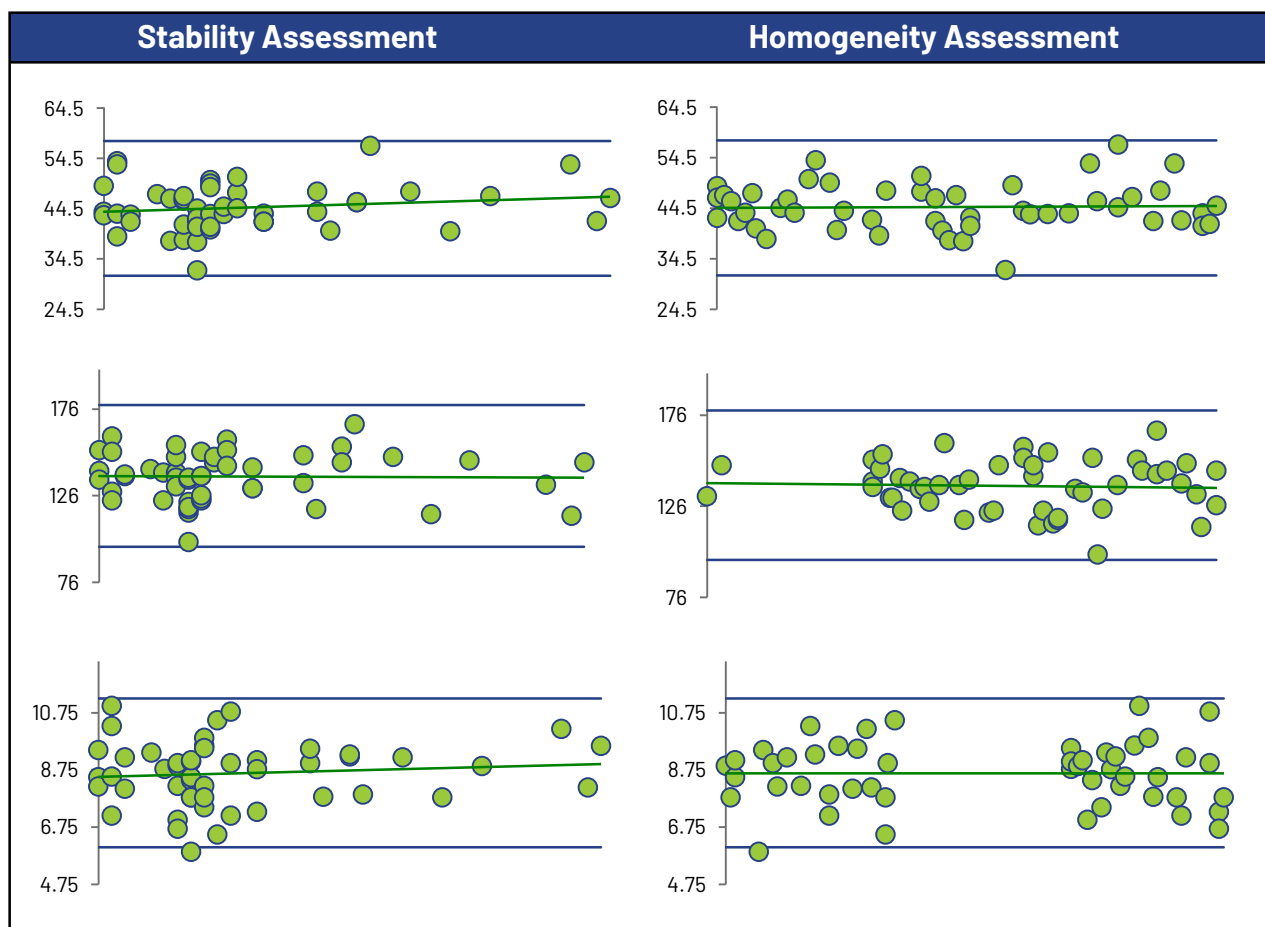
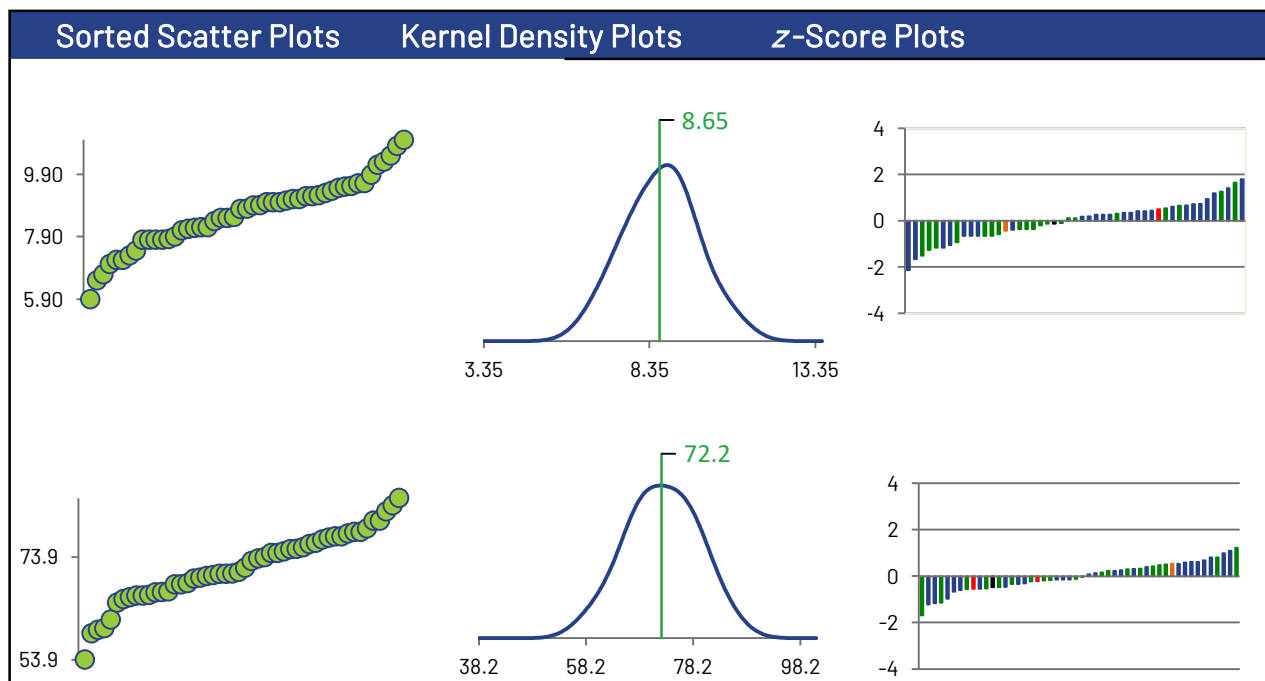
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	26	26	26	26
GC/MS (Red)	2	2	1	2
GC/MS - HEADSPACE (Green)	20	20	20	20
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

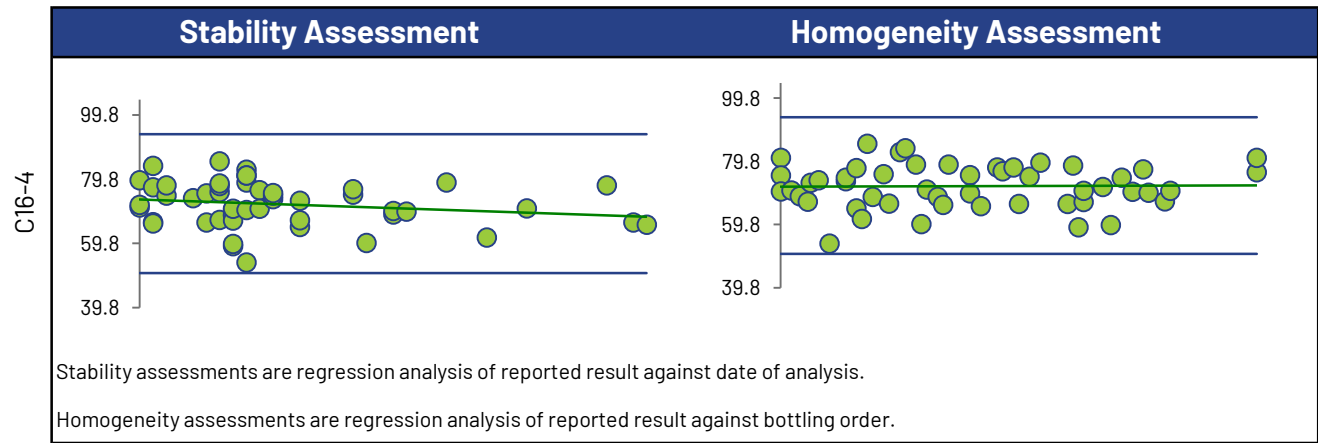


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

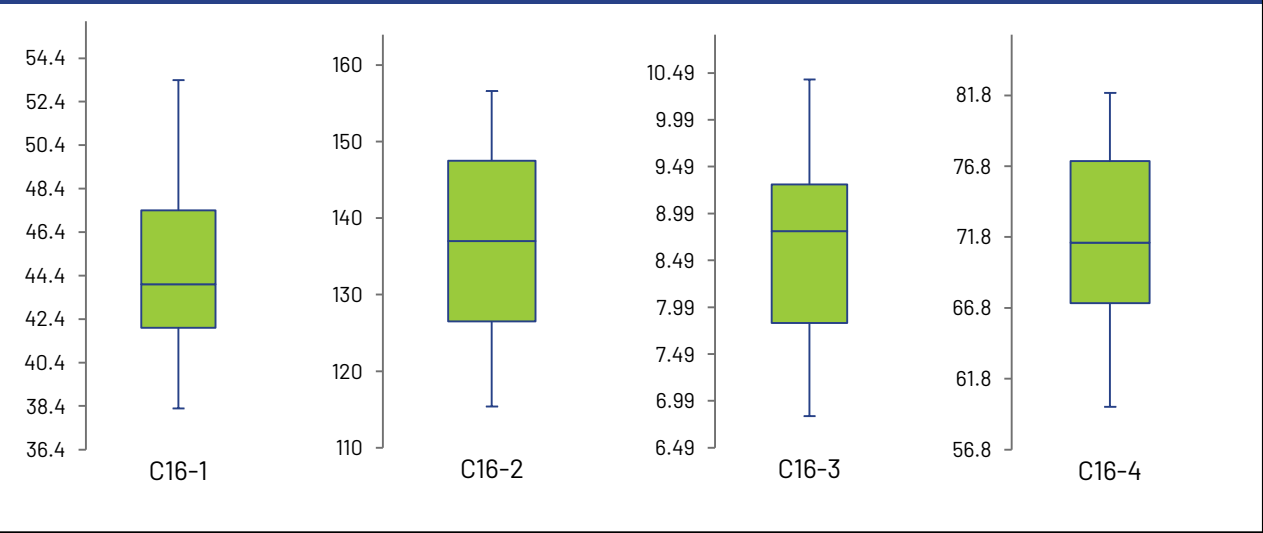
1,4-Dichlorobenzene



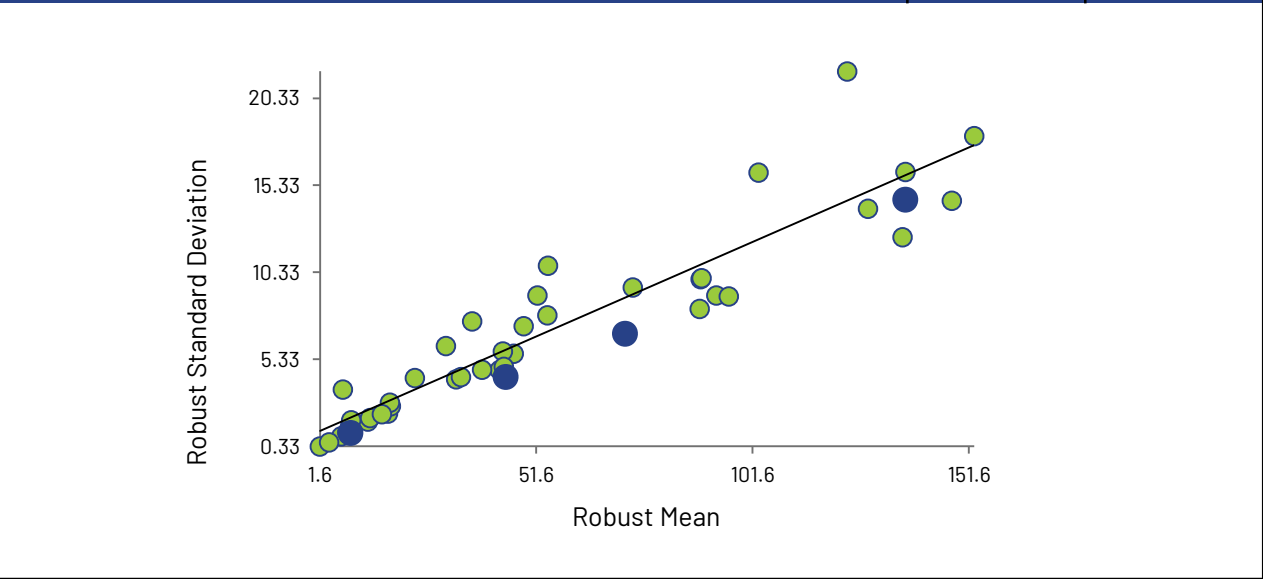
1,4-Dichlorobenzene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Acetone (2-Propanone)

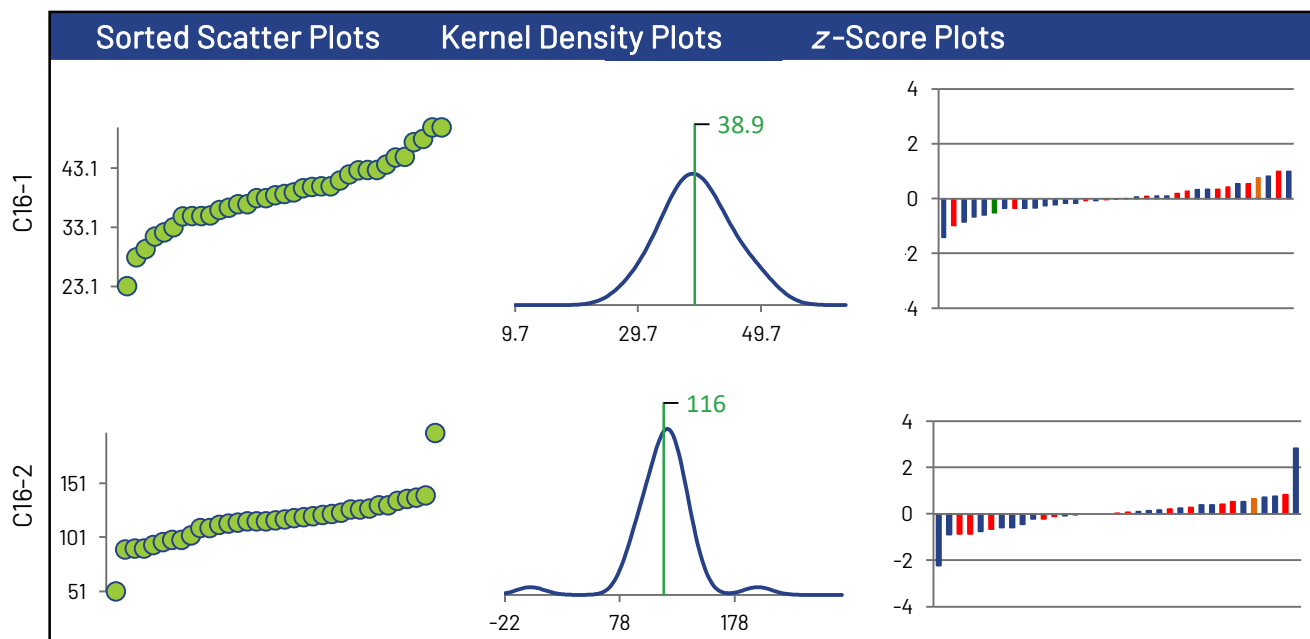
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	35	35	21	35
Median µg/L	38.7	117	10.0	274
Robust Mean µg/L	38.9	116	9.51	268
Uncertainty of the Assigned Value µg/L	1.25	3.63	0.589	9.06
Robust Standard Deviation µg/L	5.90	17.2	2.16	42.9
Regression Standard Deviation µg/L	11.1	29.1	4.27	64.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	11.1	29.1	4.27	64.4
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	1	2
$2 < z < 3$	0	2	1	1
Failure Rate %*	0.0			

Methods Used

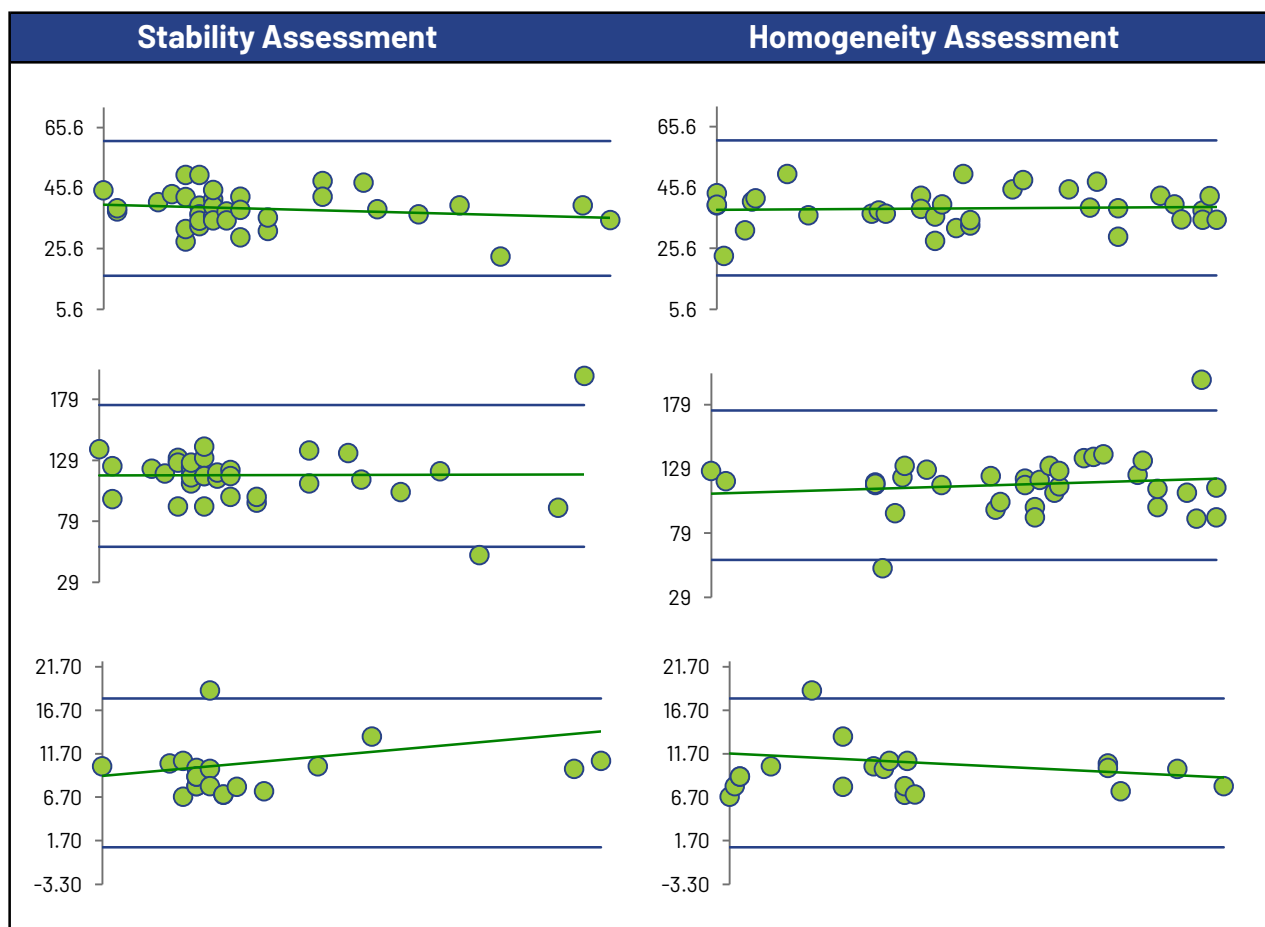
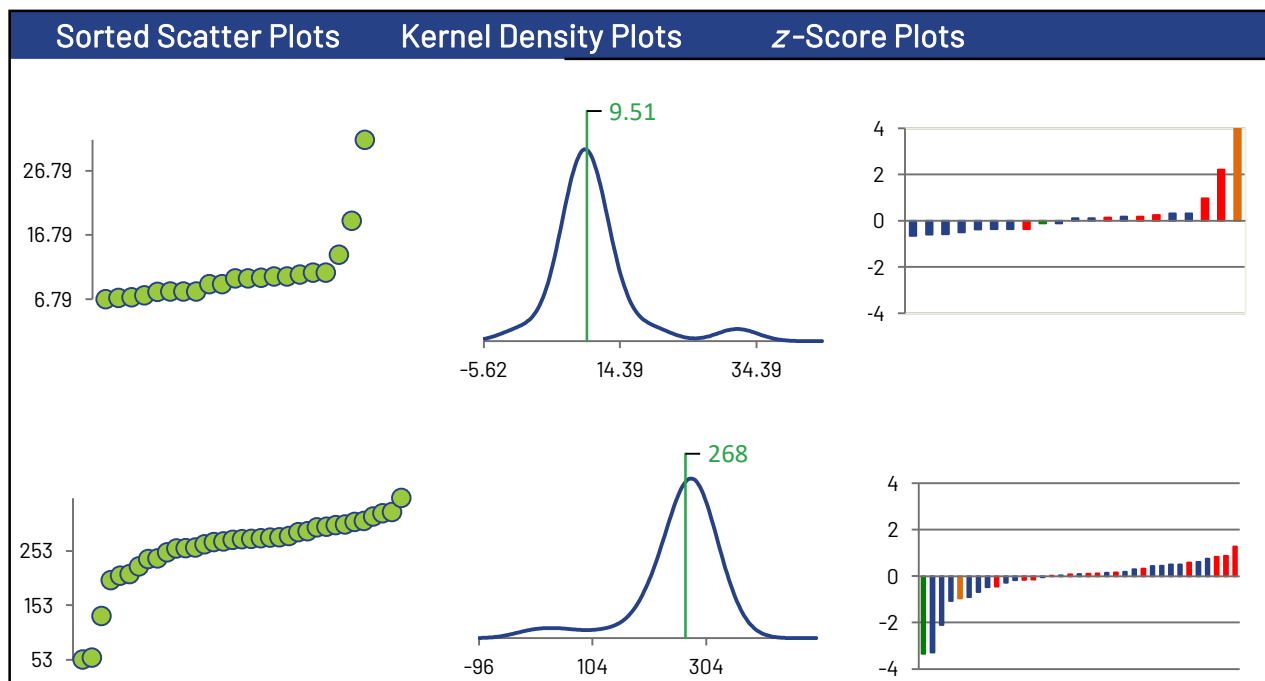
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	20	20	13	20
GC/MS - HEADSPACE (Red)	13	13	6	13
GC/FID - PURGE AND TRAP (Green)	1	1	1	1
GC/MS (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

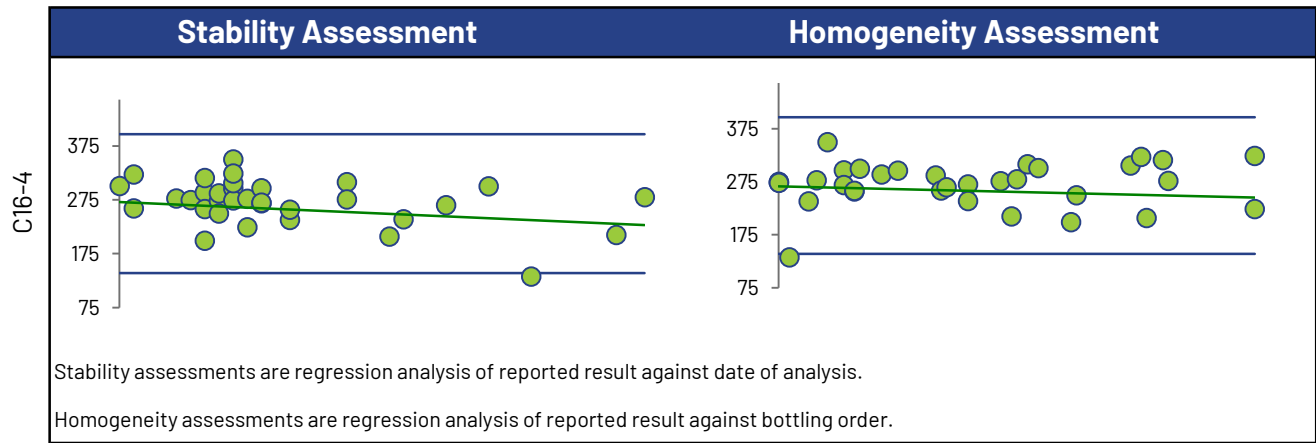


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

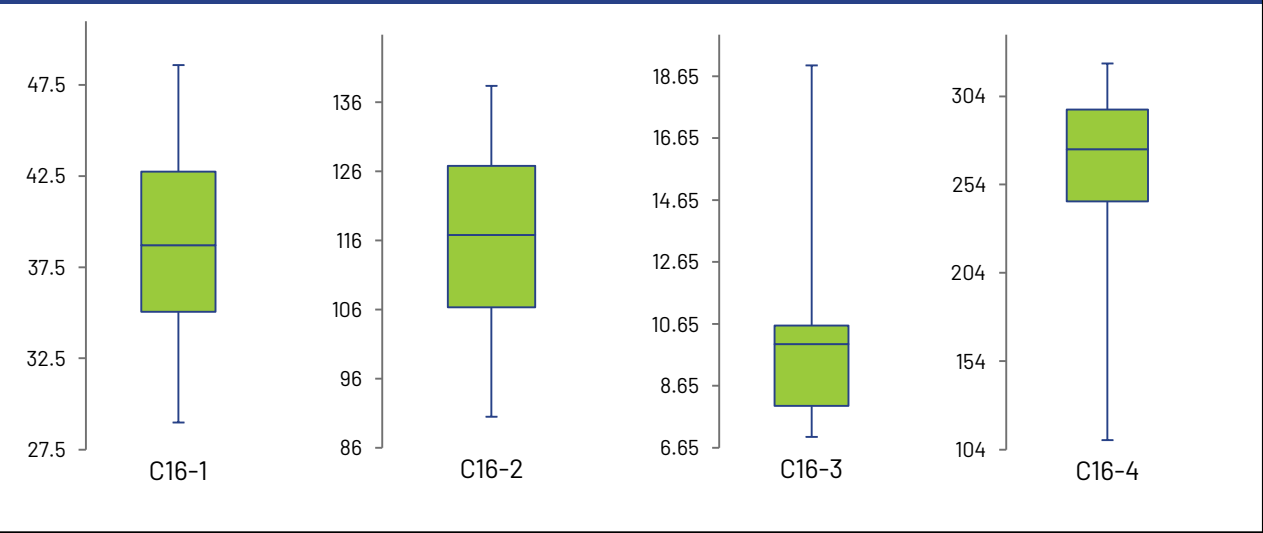
Acetone (2-Propanone)



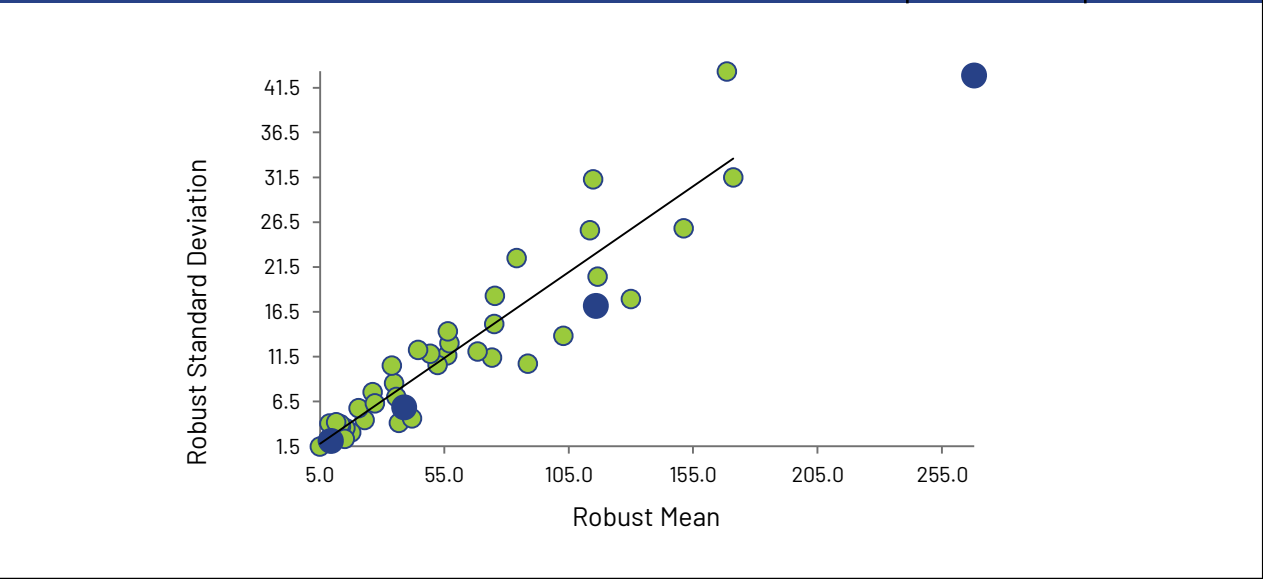
Acetone (2-Propanone)



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Benzene

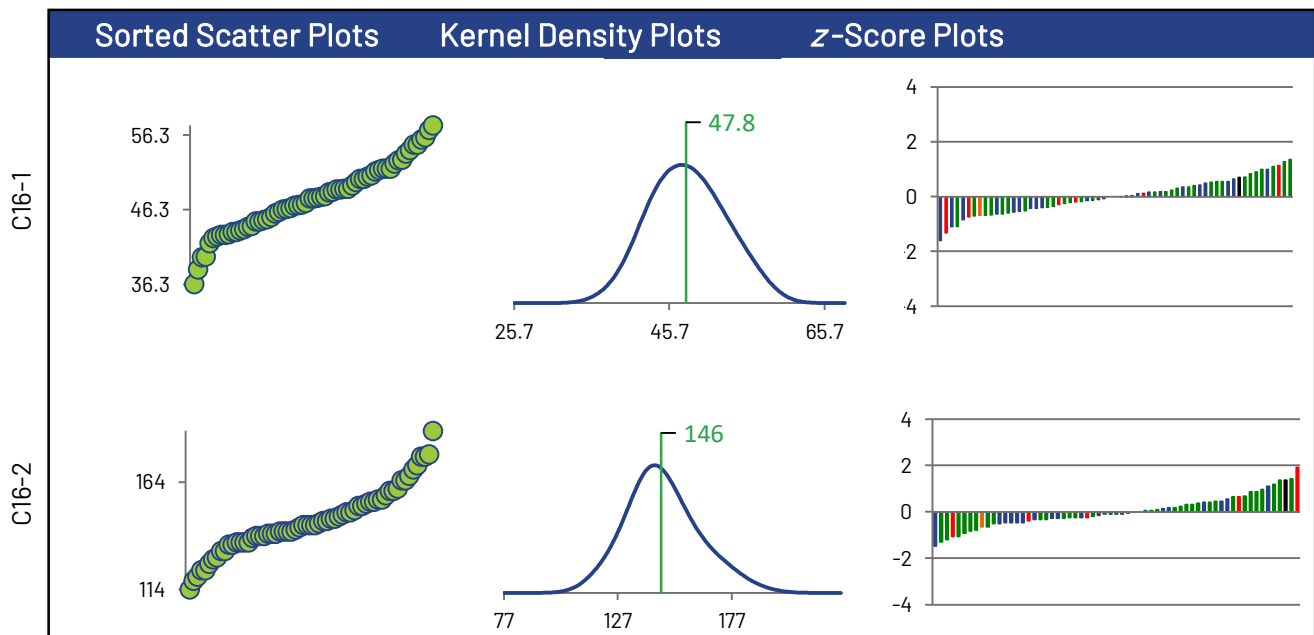
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	63	63	63	63
Median µg/L	47.8	144	9.35	63.6
Robust Mean µg/L	47.8	146	9.29	63.1
Uncertainty of the Assigned Value µg/L	0.761	2.30	0.157	0.965
Robust Standard Deviation µg/L	4.83	14.6	1.00	6.13
Regression Standard Deviation µg/L	7.18	21.9	1.39	9.47
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.18	21.9	1.39	9.47
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	1	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	0.0			

Methods Used

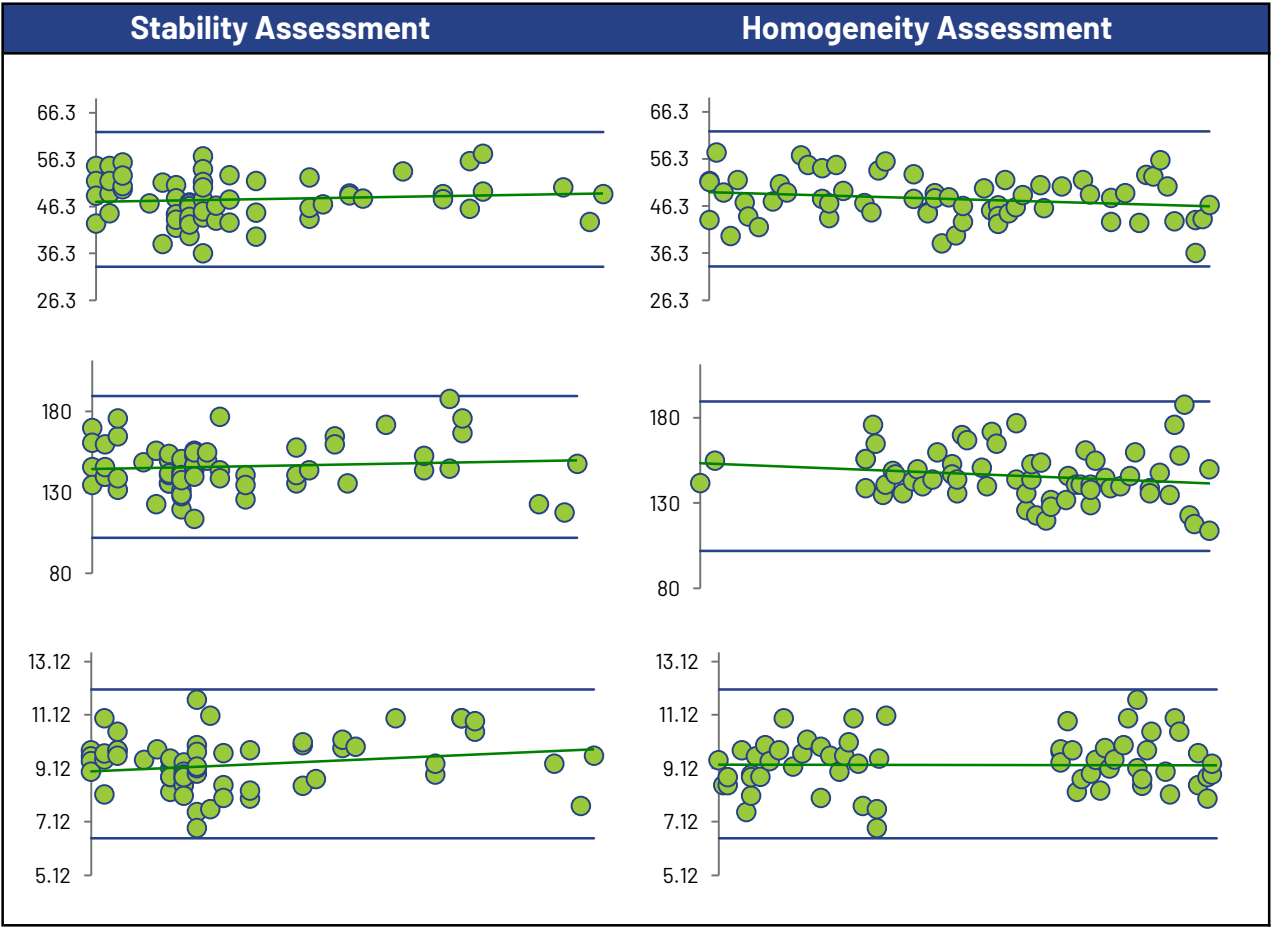
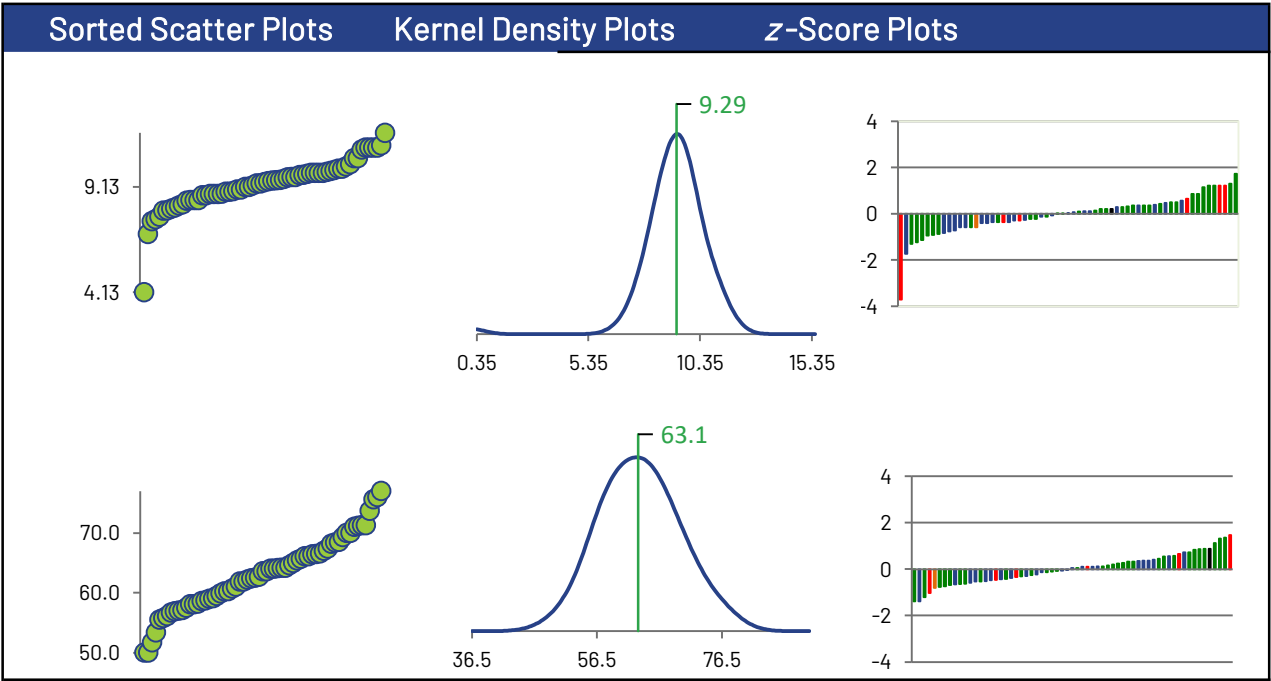
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	23	23	23	23
GC/MS (Red)	6	6	6	6
GC/MS - PURGE AND TRAP (Green)	32	32	32	32
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

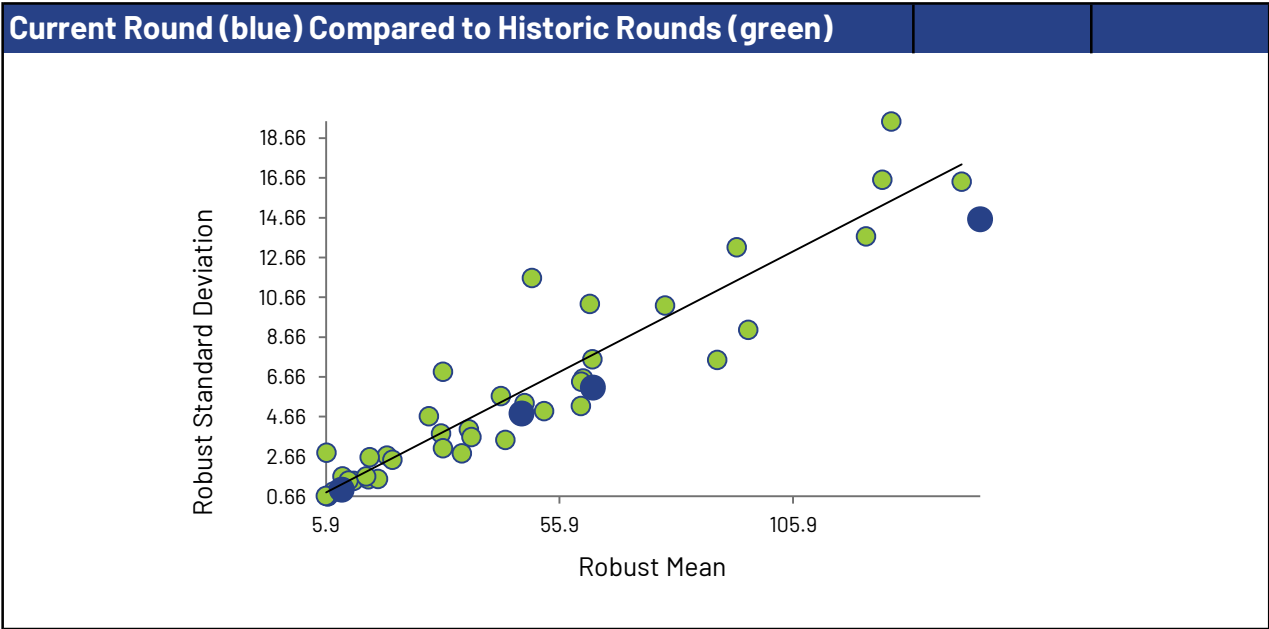
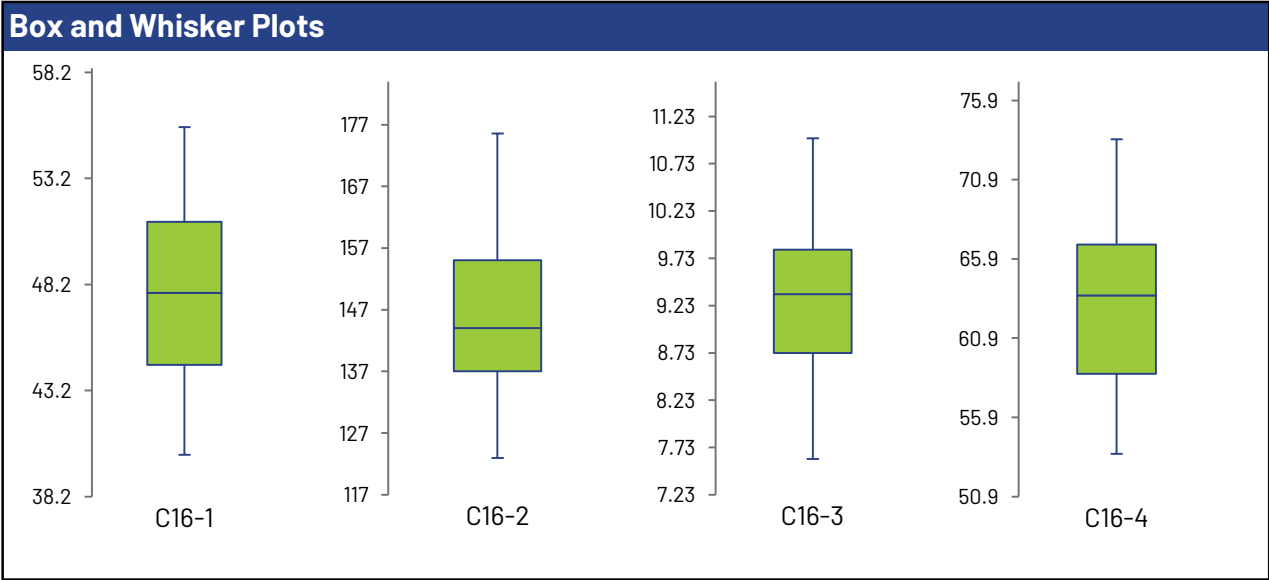
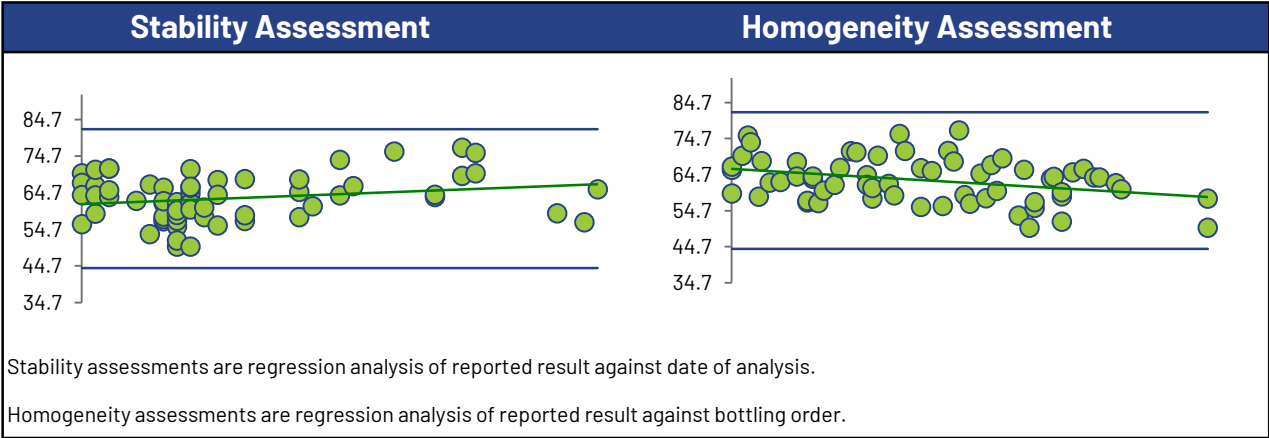


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Benzene



Benzene



Bromodichloromethane

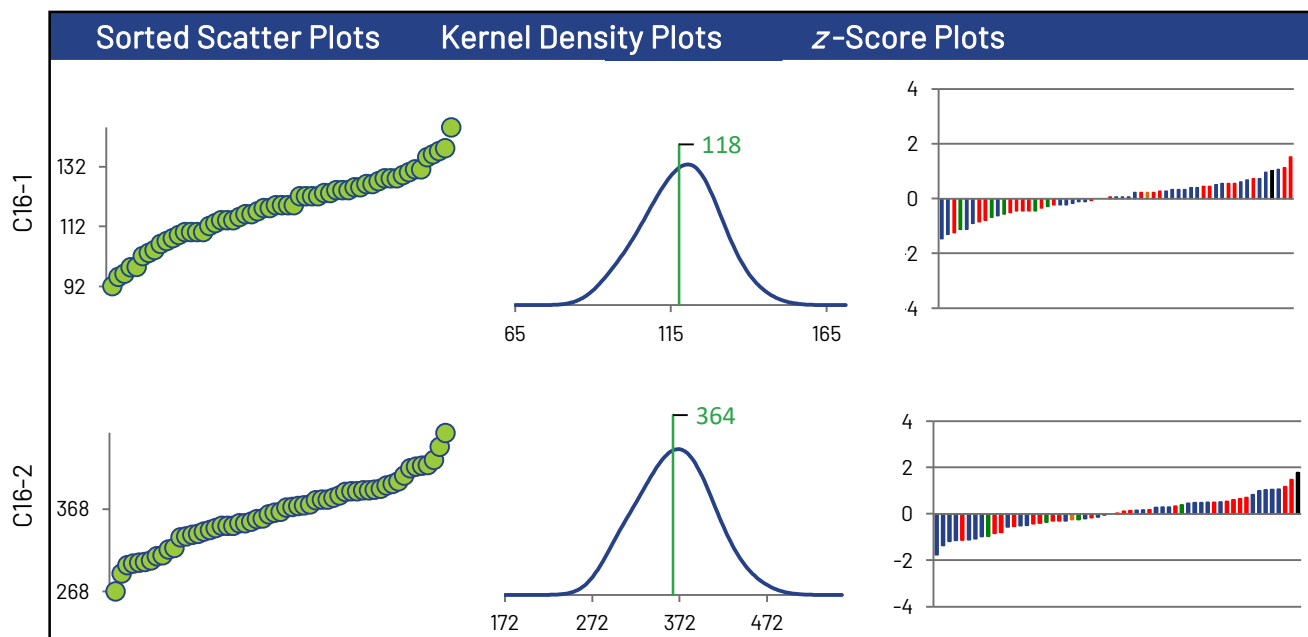
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	57	57	58	57
Median µg/L	119	365	23.0	215
Robust Mean µg/L	118	364	22.9	211
Uncertainty of the Assigned Value µg/L	1.94	7.09	0.396	3.66
Robust Standard Deviation µg/L	11.7	42.8	2.41	22.1
Regression Standard Deviation µg/L	17.7	54.5	3.43	31.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	17.7	54.5	3.43	31.6
Flagged Outliers	1	1	0	1
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	1.7			

Methods Used

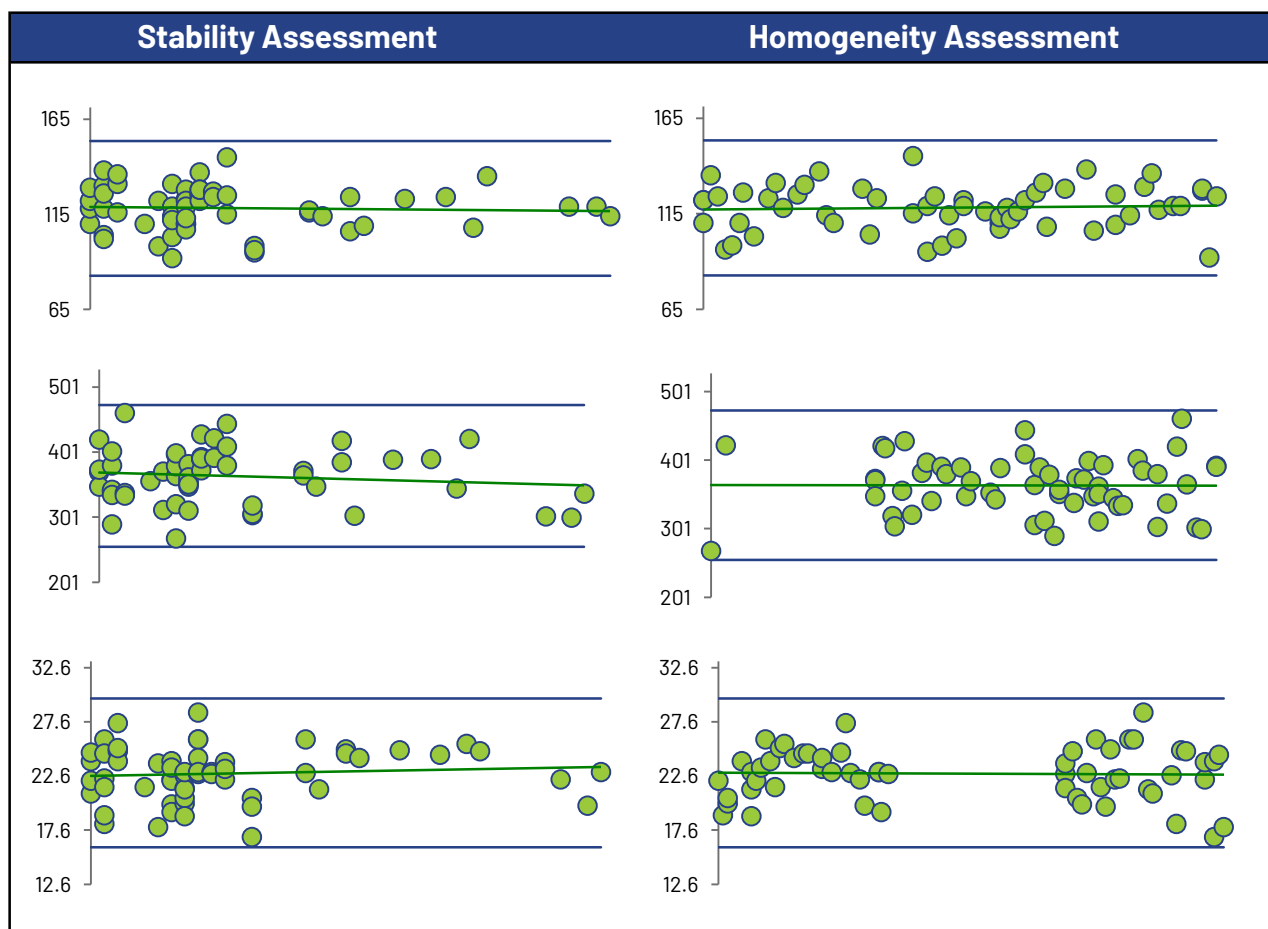
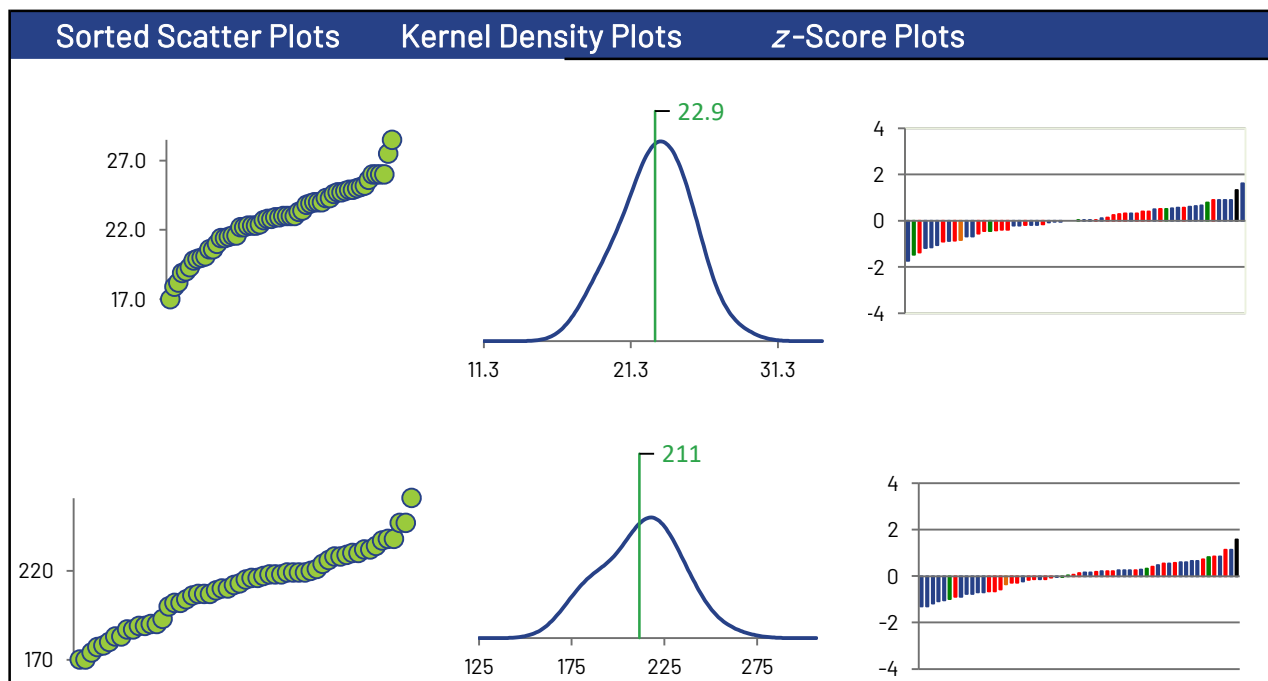
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	28	28	28	28
GC/MS - HEADSPACE (Red)	22	22	23	22
GC/MS (Green)	5	5	5	5
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

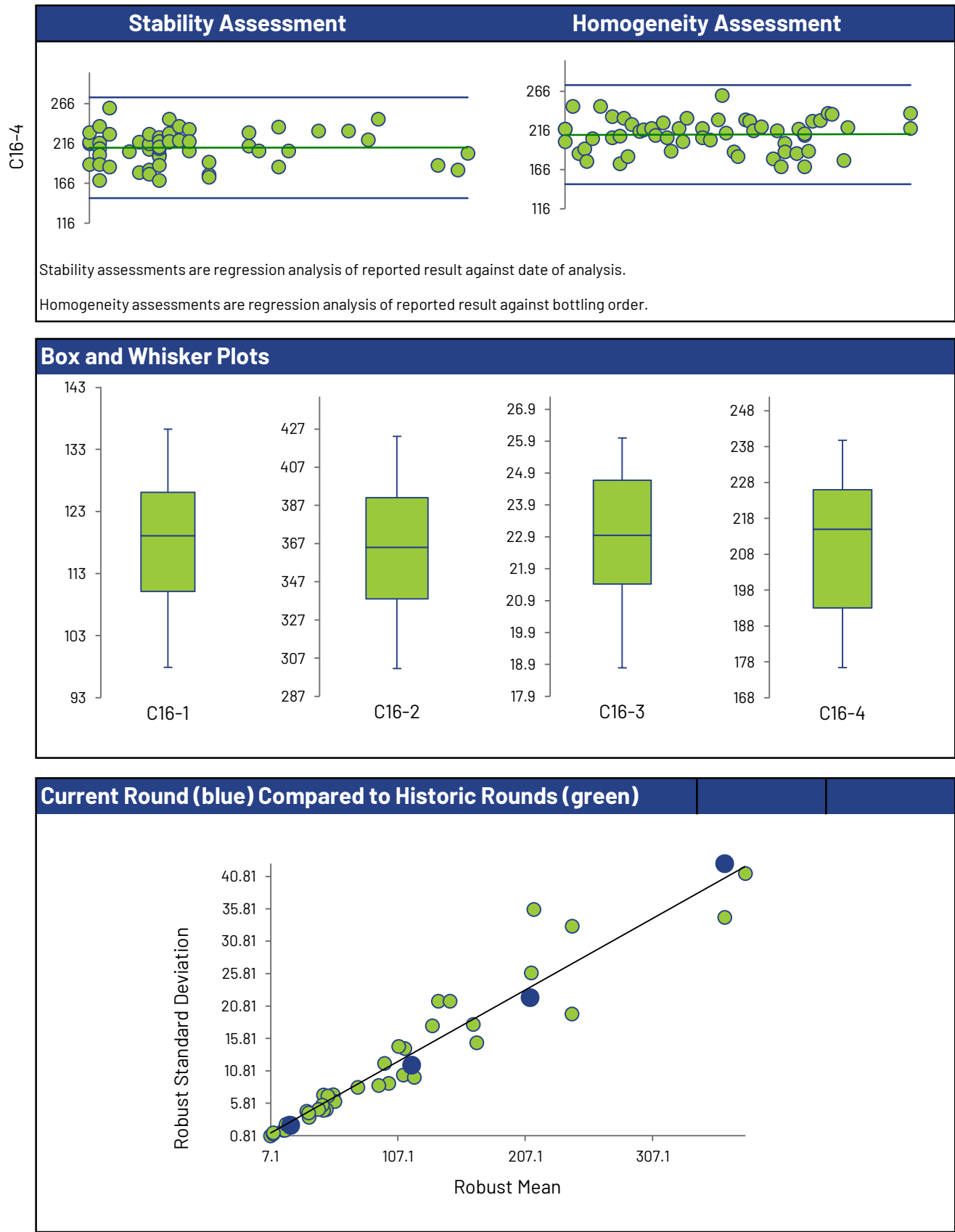


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Bromodichloromethane



Bromodichloromethane



Bromoform

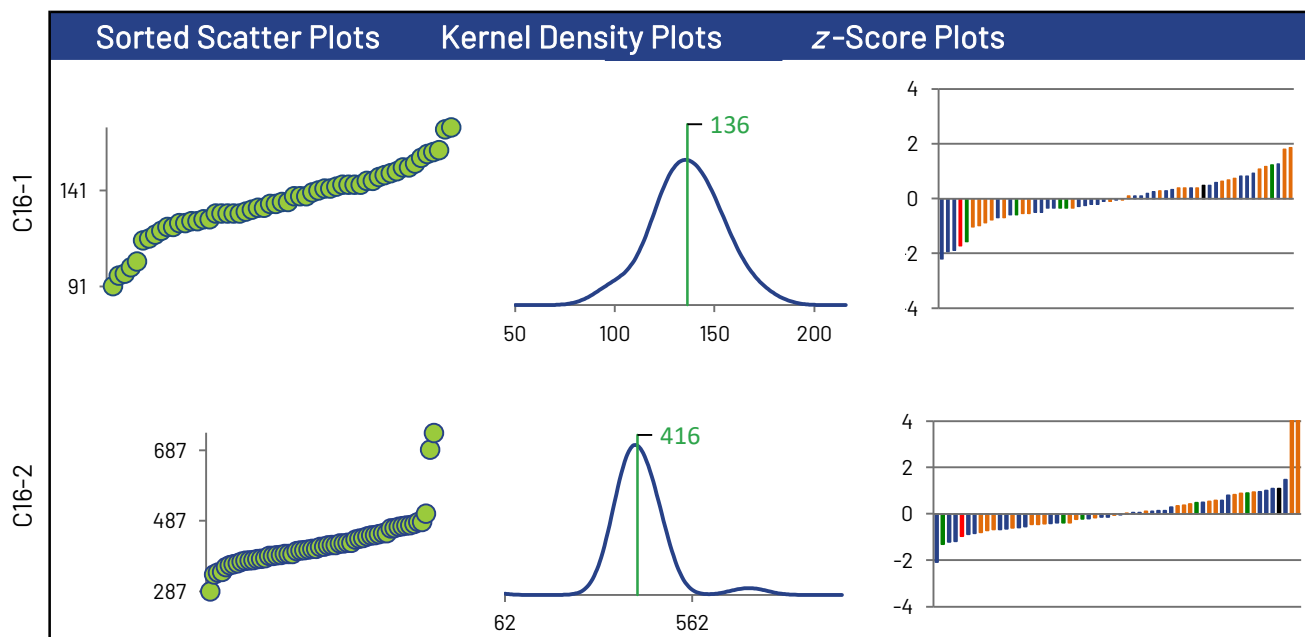
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	57	58	58	57
Median µg/L	135	414	25.5	259
Robust Mean µg/L	136	416	25.5	253
Uncertainty of the Assigned Value µg/L	2.72	7.94	0.451	4.65
Robust Standard Deviation µg/L	16.4	48.4	2.75	28.1
Regression Standard Deviation µg/L	20.4	62.4	3.83	38.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	20.4	62.4	3.83	38.0
Flagged Outliers	1	0	0	1
$ z > 3.0$	0	2	1	0
$2 < z < 3$	1	1	2	1
Failure Rate %*	5.2			

Methods Used

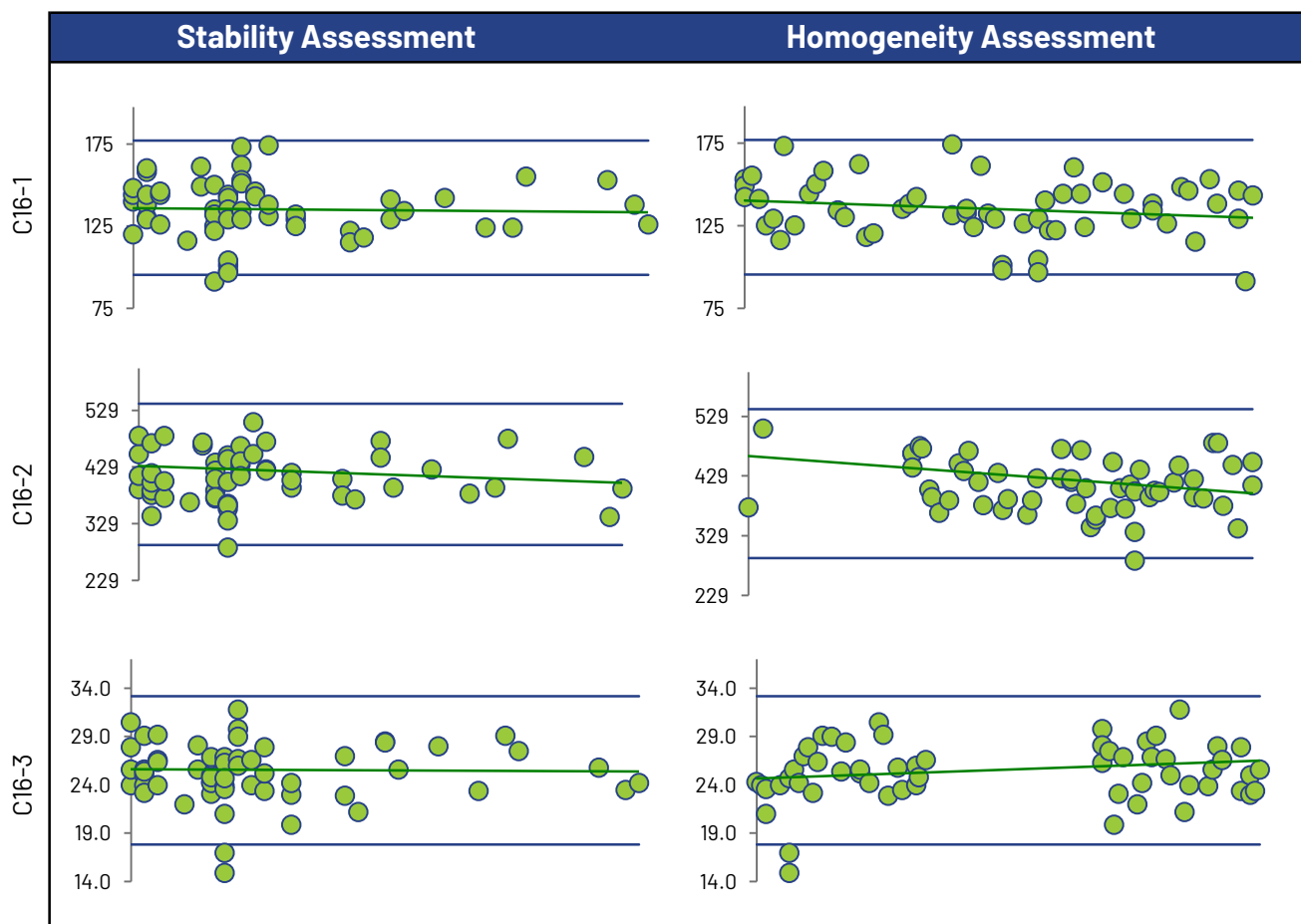
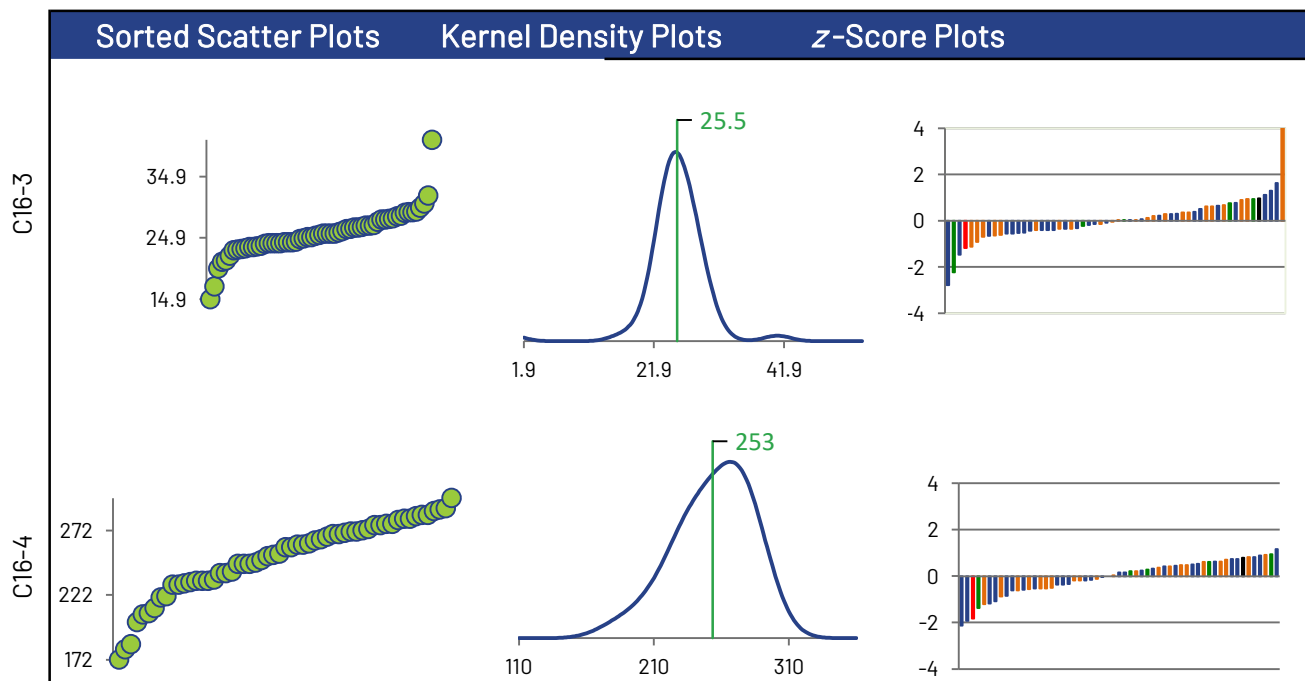
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	28	28	28	28
GC/FID - PURGE AND TRAP (Red)	1	1	1	1
GC/MS (Green)	5	5	5	5
GC/MS - HEADSPACE (Orange)	22	23	23	22
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

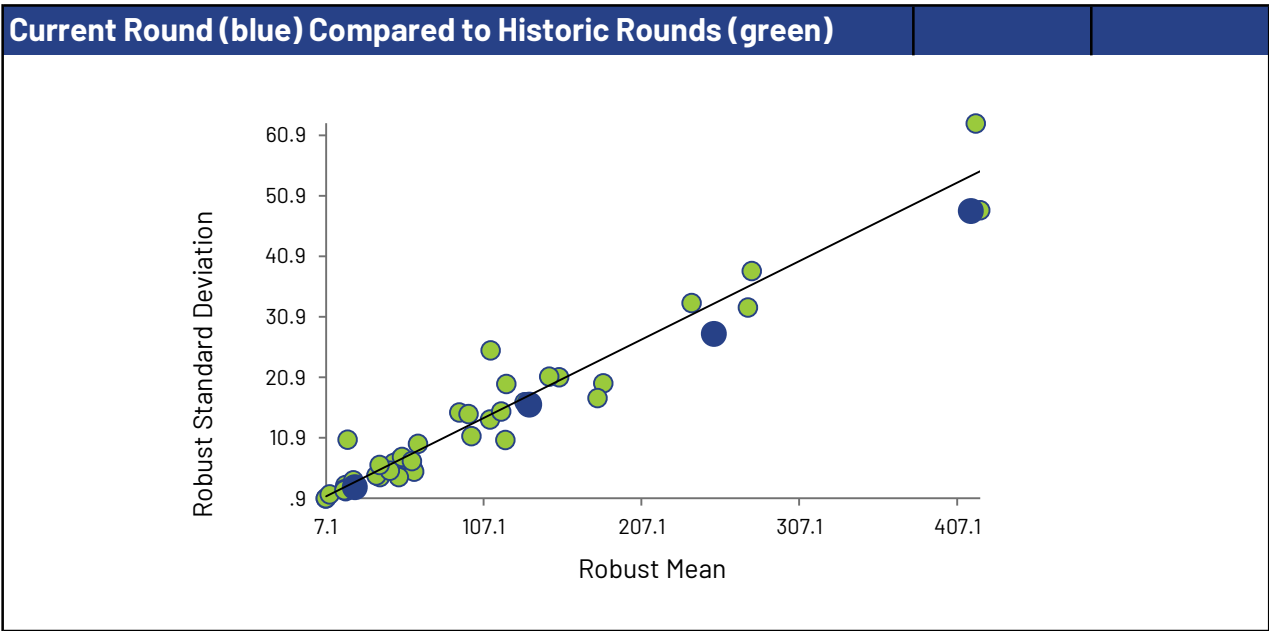
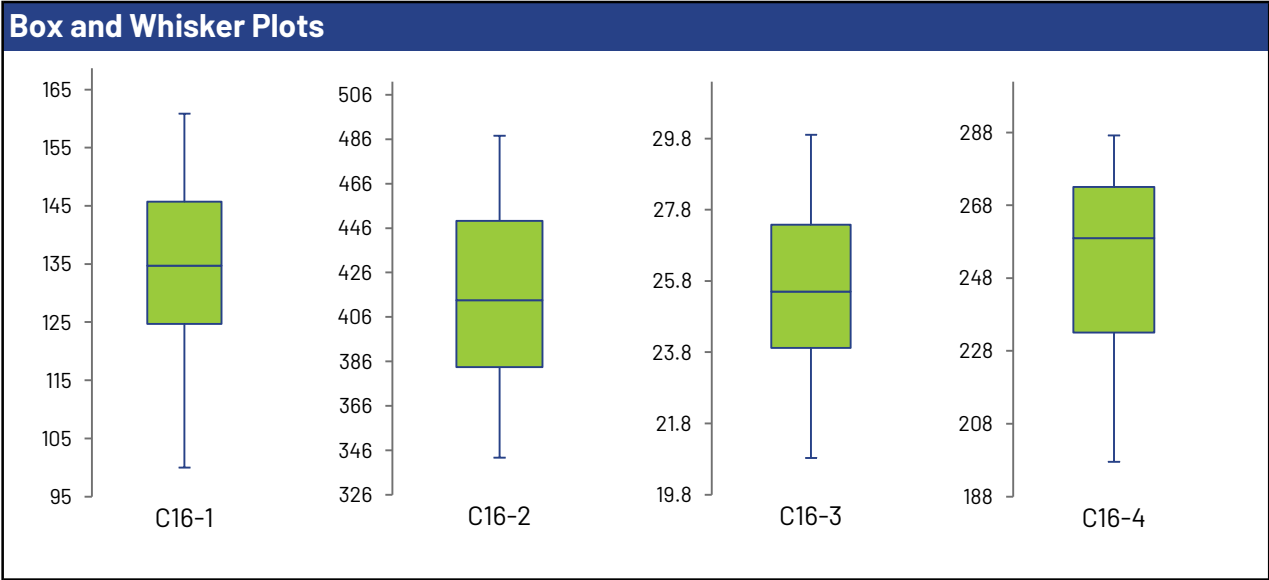
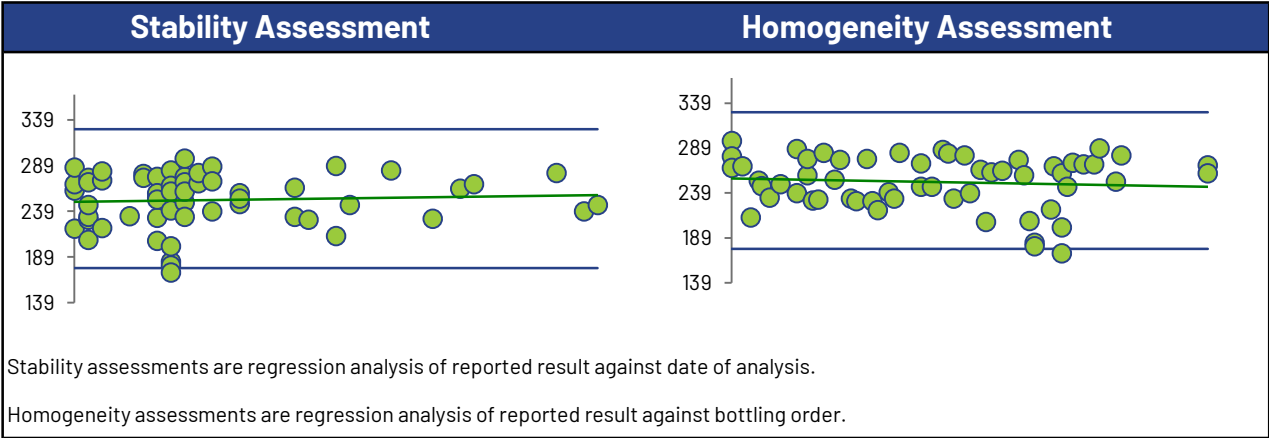


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Bromoform



Bromoform



Carbon tetrachloride

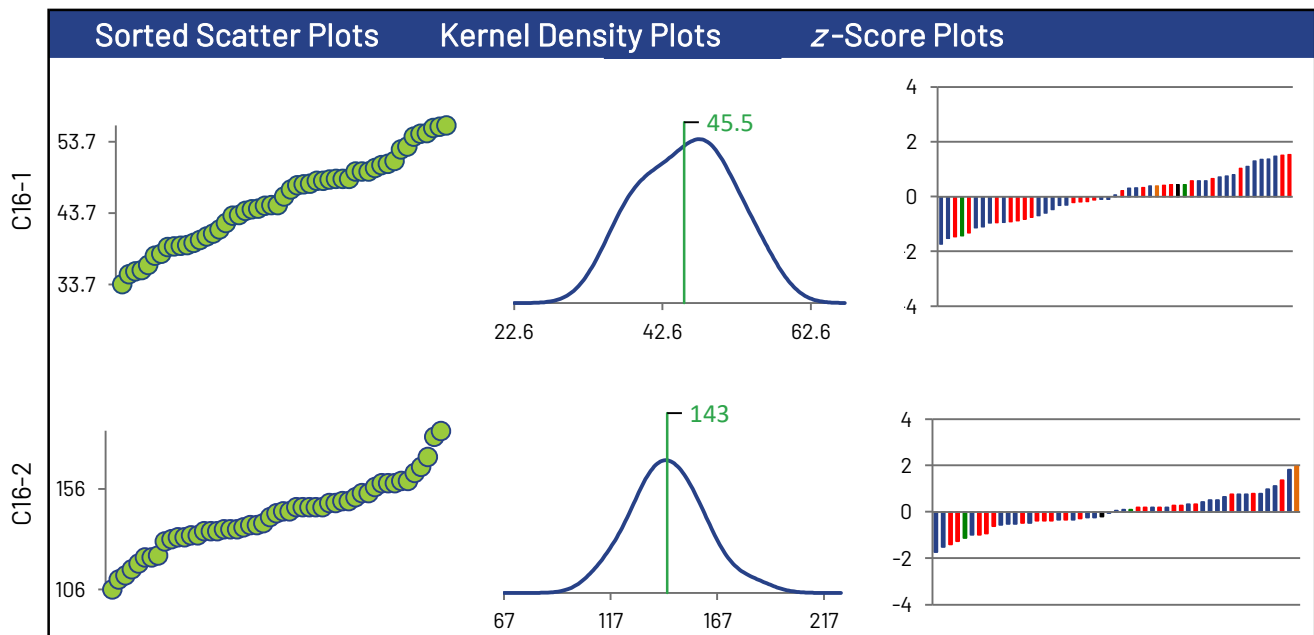
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	51	51	51	51
Median µg/L	46.0	144	8.90	59.4
Robust Mean µg/L	45.5	143	8.85	60.1
Uncertainty of the Assigned Value µg/L	1.20	2.87	0.177	1.14
Robust Standard Deviation µg/L	6.84	16.4	1.01	6.50
Regression Standard Deviation µg/L	6.83	21.4	1.33	9.01
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	6.84	21.4	1.33	9.01
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	4	0
Failure Rate %*	0.0			

Methods Used

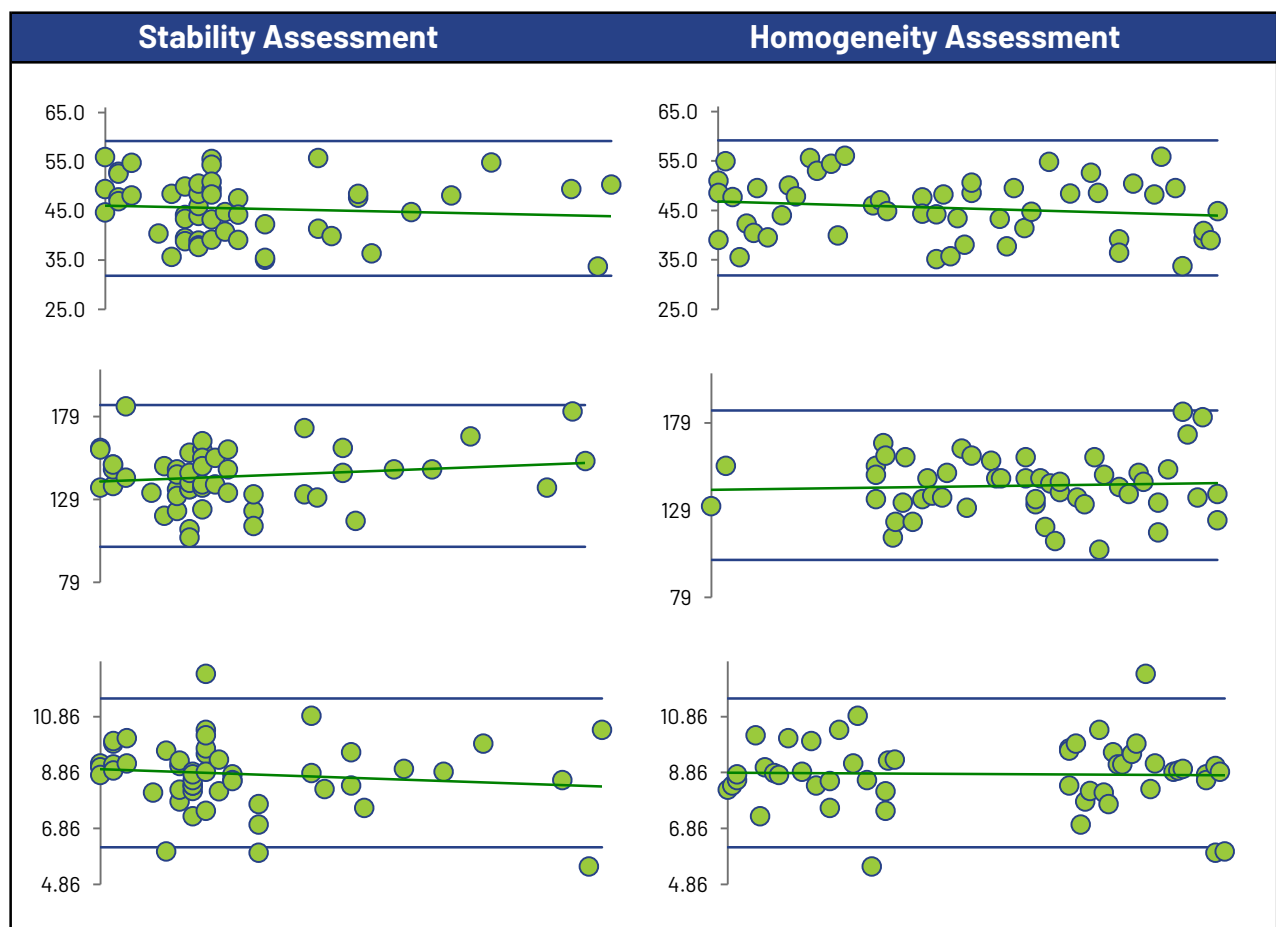
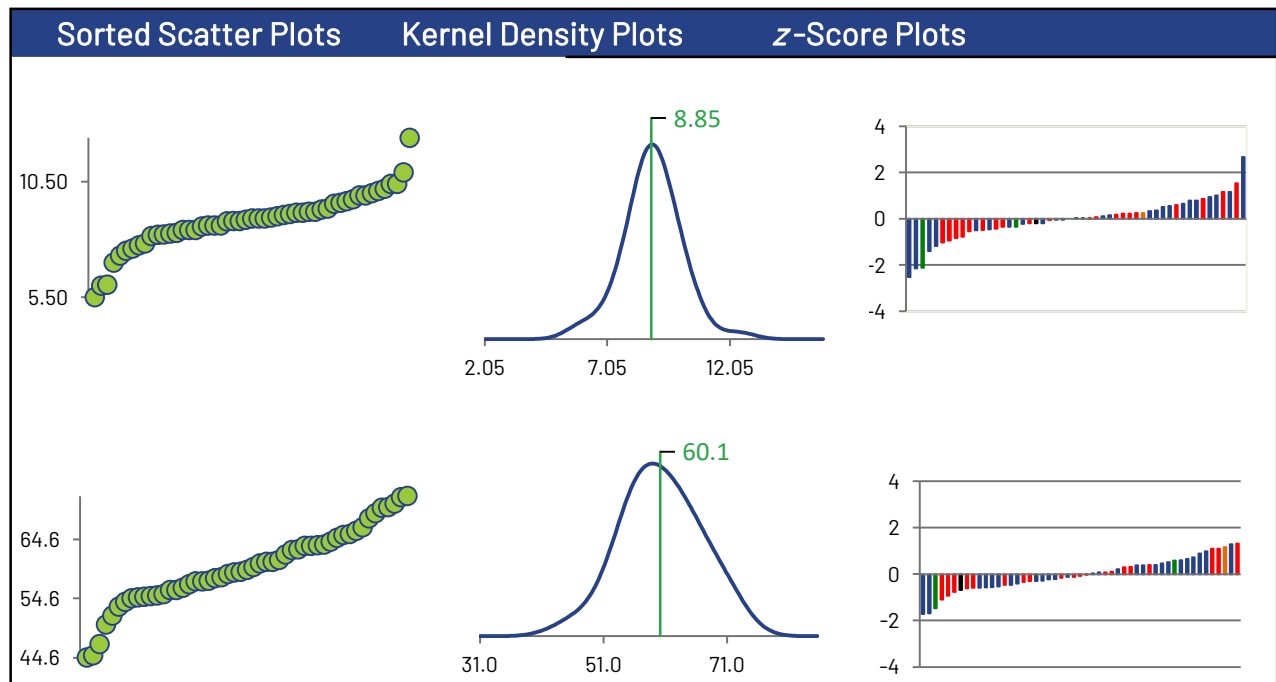
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	27	27	27	27
GC/MS - HEADSPACE (Red)	20	20	20	20
GC/MS (Green)	2	2	2	2
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

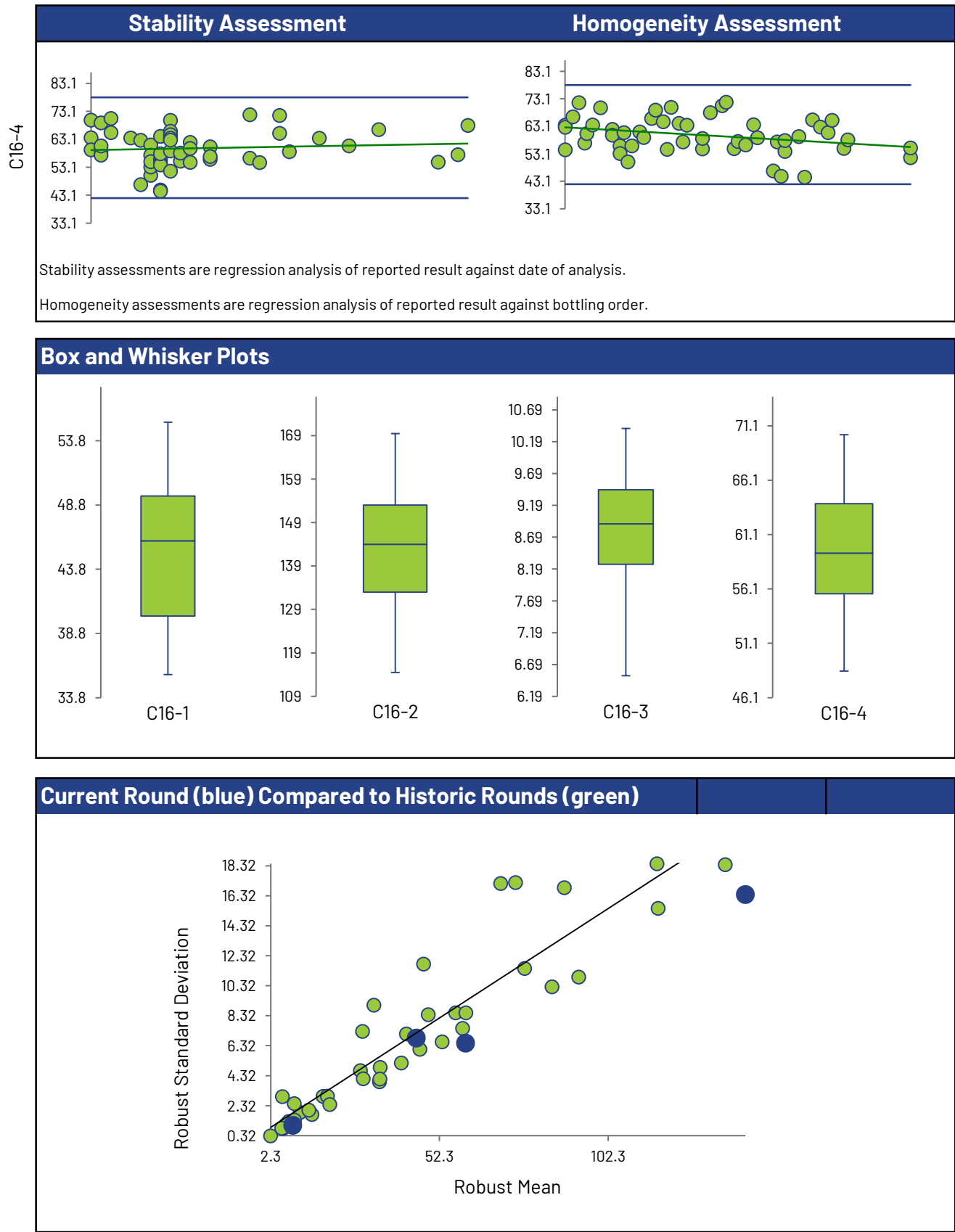


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Carbon tetrachloride



Carbon tetrachloride



Chlorobenzene

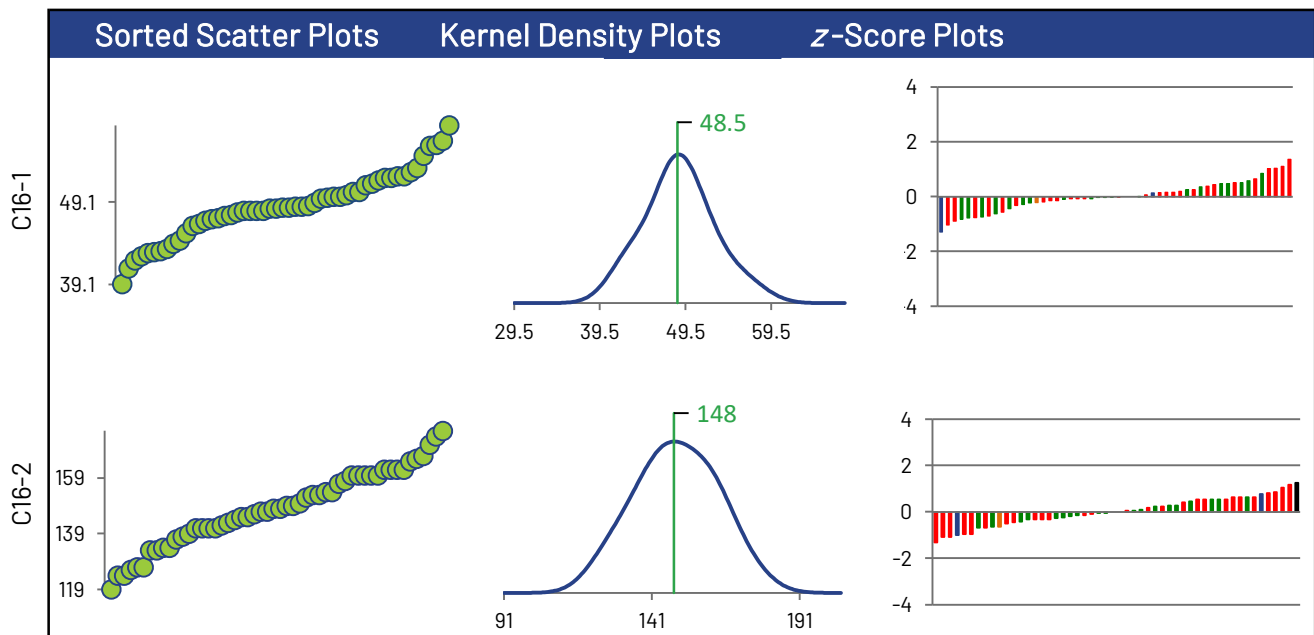
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	52	52	52	52
Median µg/L	48.4	148	9.24	72.5
Robust Mean µg/L	48.5	148	9.34	72.2
Uncertainty of the Assigned Value µg/L	0.699	2.53	0.157	0.966
Robust Standard Deviation µg/L	4.03	14.6	0.907	5.57
Regression Standard Deviation µg/L	7.28	22.2	1.40	10.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.28	22.2	1.40	10.8
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	0
Failure Rate %*	0.0			

Methods Used

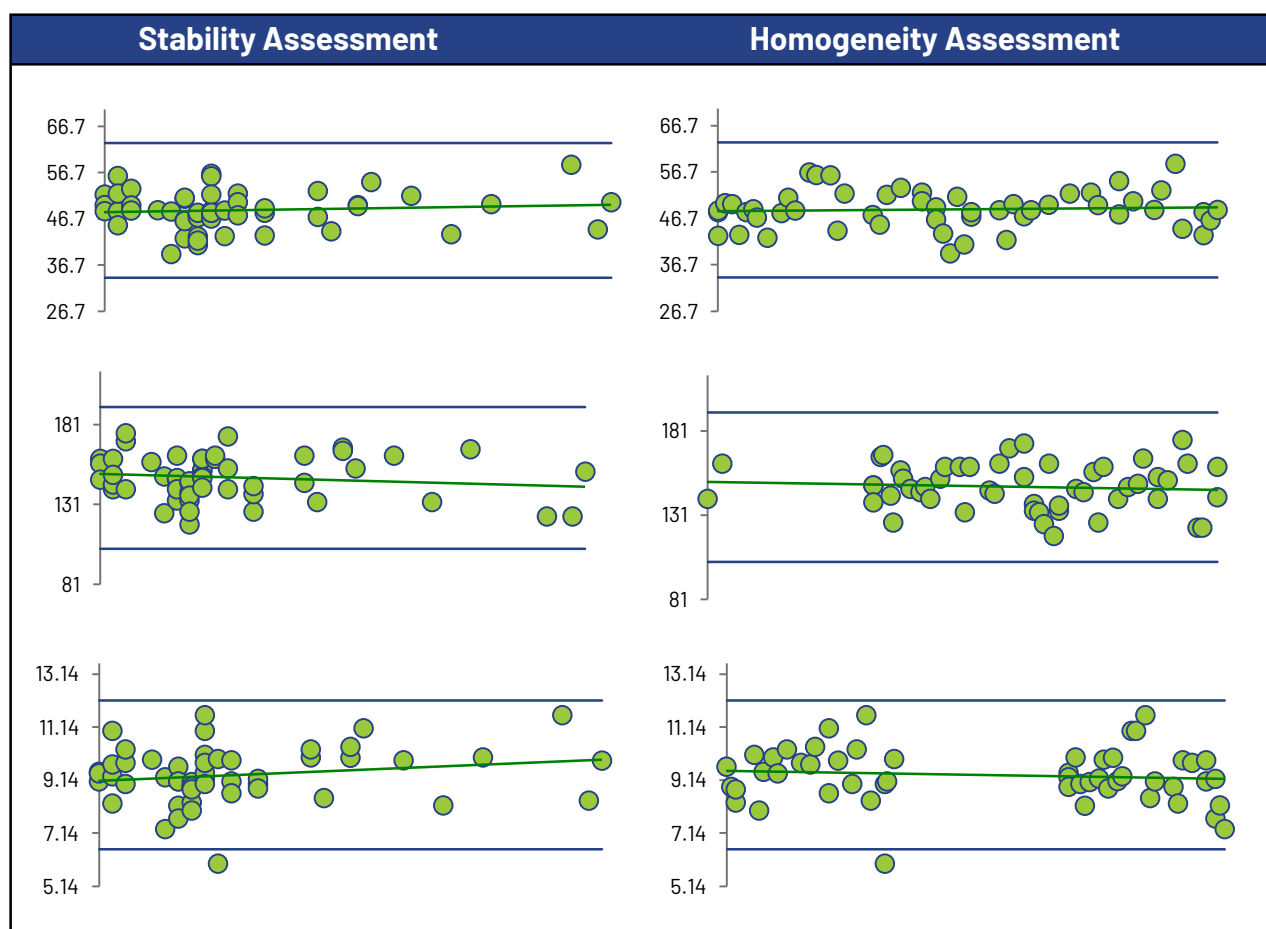
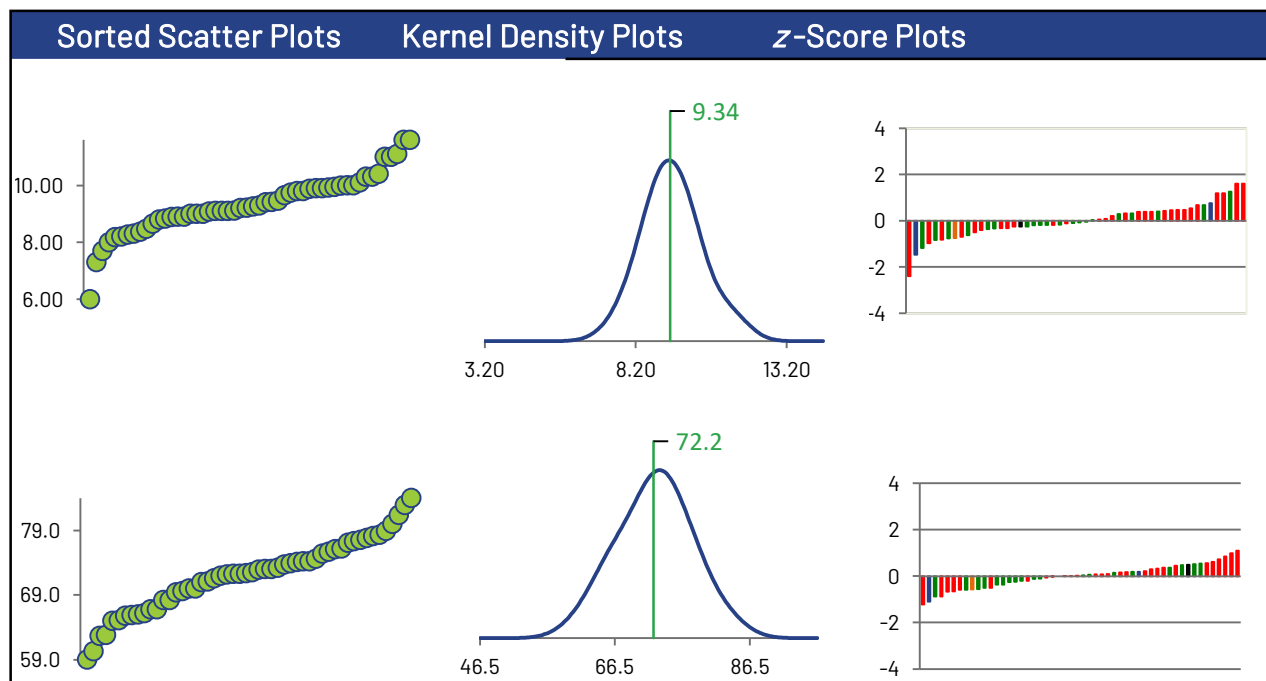
Method	C16-1	C16-2	C16-3	C16-4
GC/MS (Blue)	2	2	2	2
GC/MS - PURGE AND TRAP (Red)	28	28	28	28
GC/MS - HEADSPACE (Green)	20	20	20	20
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

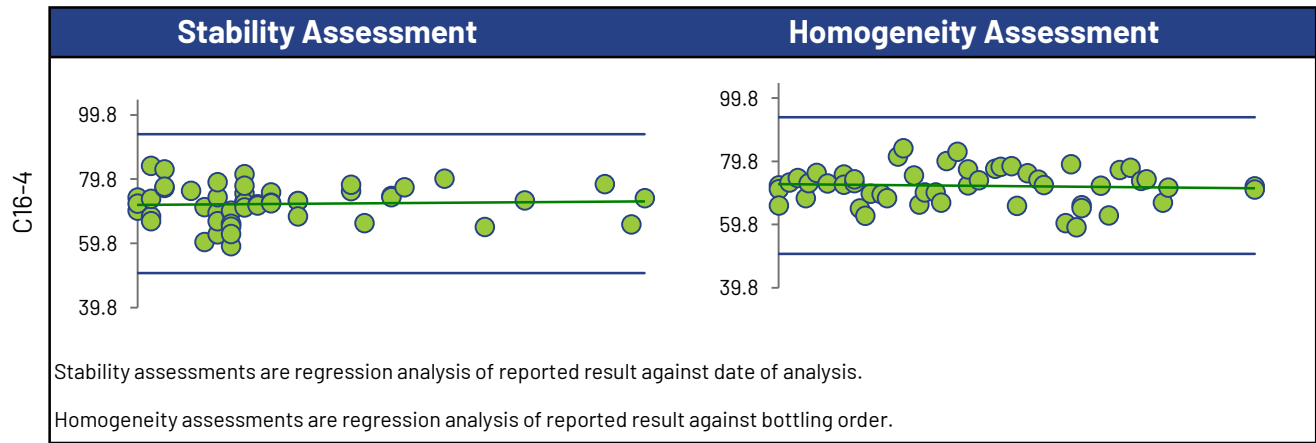


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

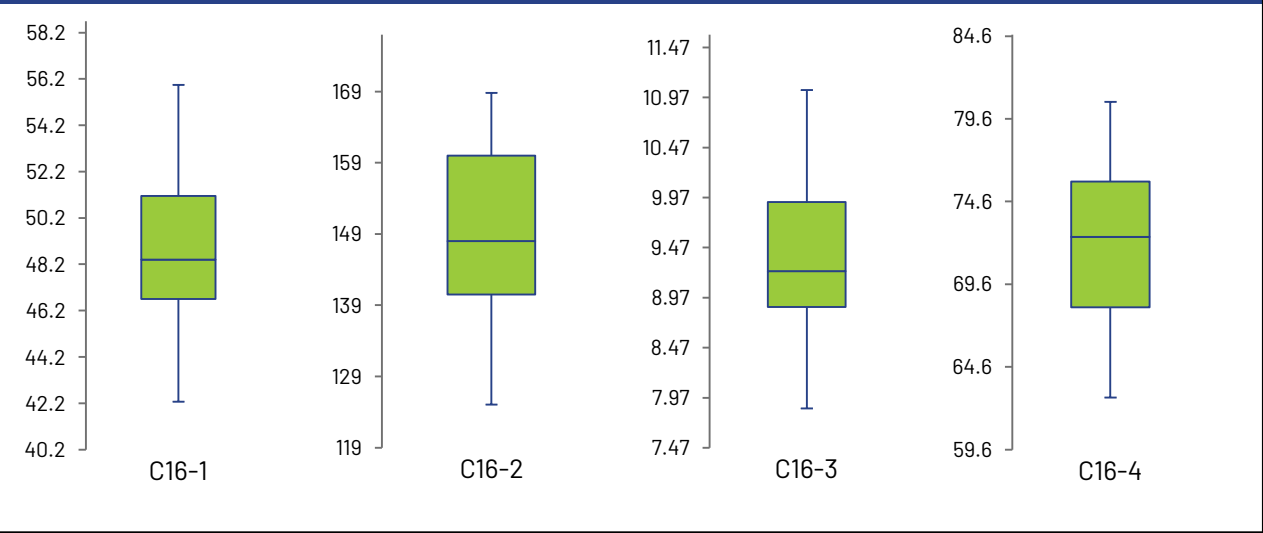
Chlorobenzene



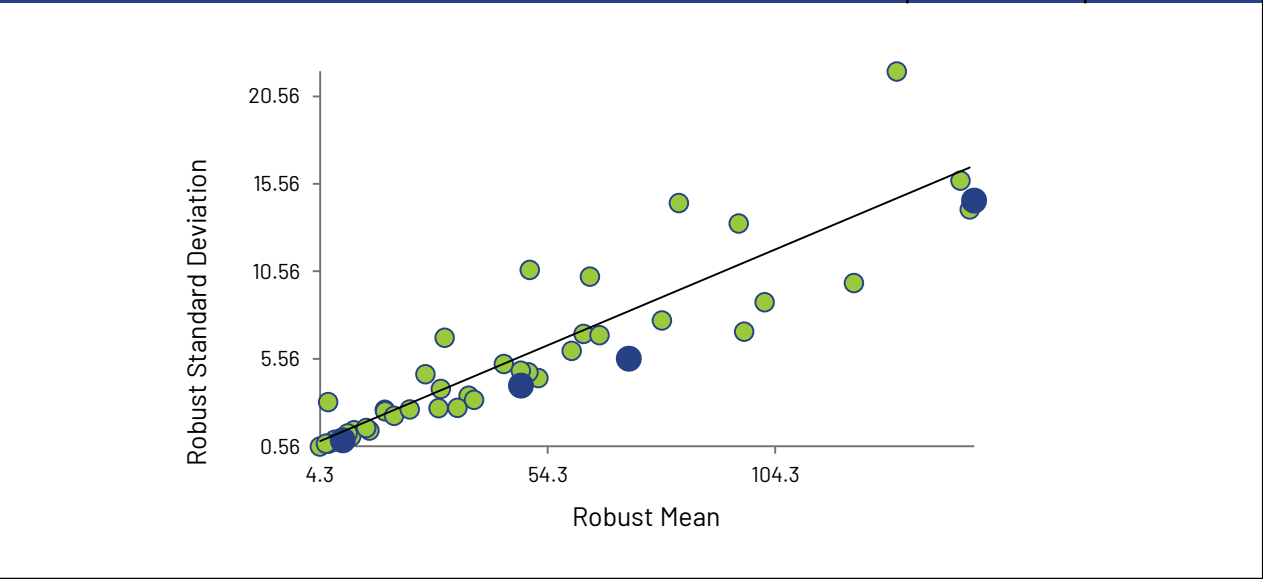
Chlorobenzene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Chlorodibromomethane

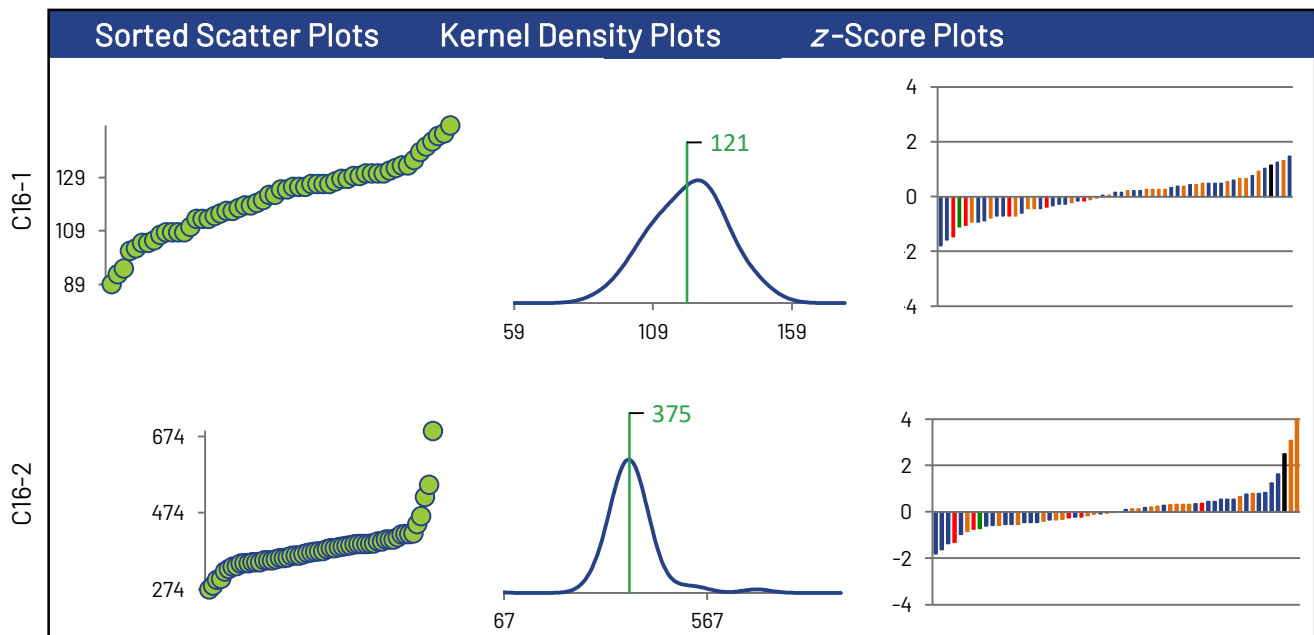
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	57	58	58	57
Median µg/L	124	375	23.2	228
Robust Mean µg/L	121	375	23.1	229
Uncertainty of the Assigned Value µg/L	2.24	6.17	0.419	3.84
Robust Standard Deviation µg/L	13.5	37.6	2.55	23.2
Regression Standard Deviation µg/L	18.2	56.3	3.47	34.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	18.2	56.3	3.47	34.3
Flagged Outliers	1	0	0	1
$ z > 3.0$	0	2	1	0
$2 < z < 3$	0	1	1	0
Failure Rate %*	3.4			

Methods Used

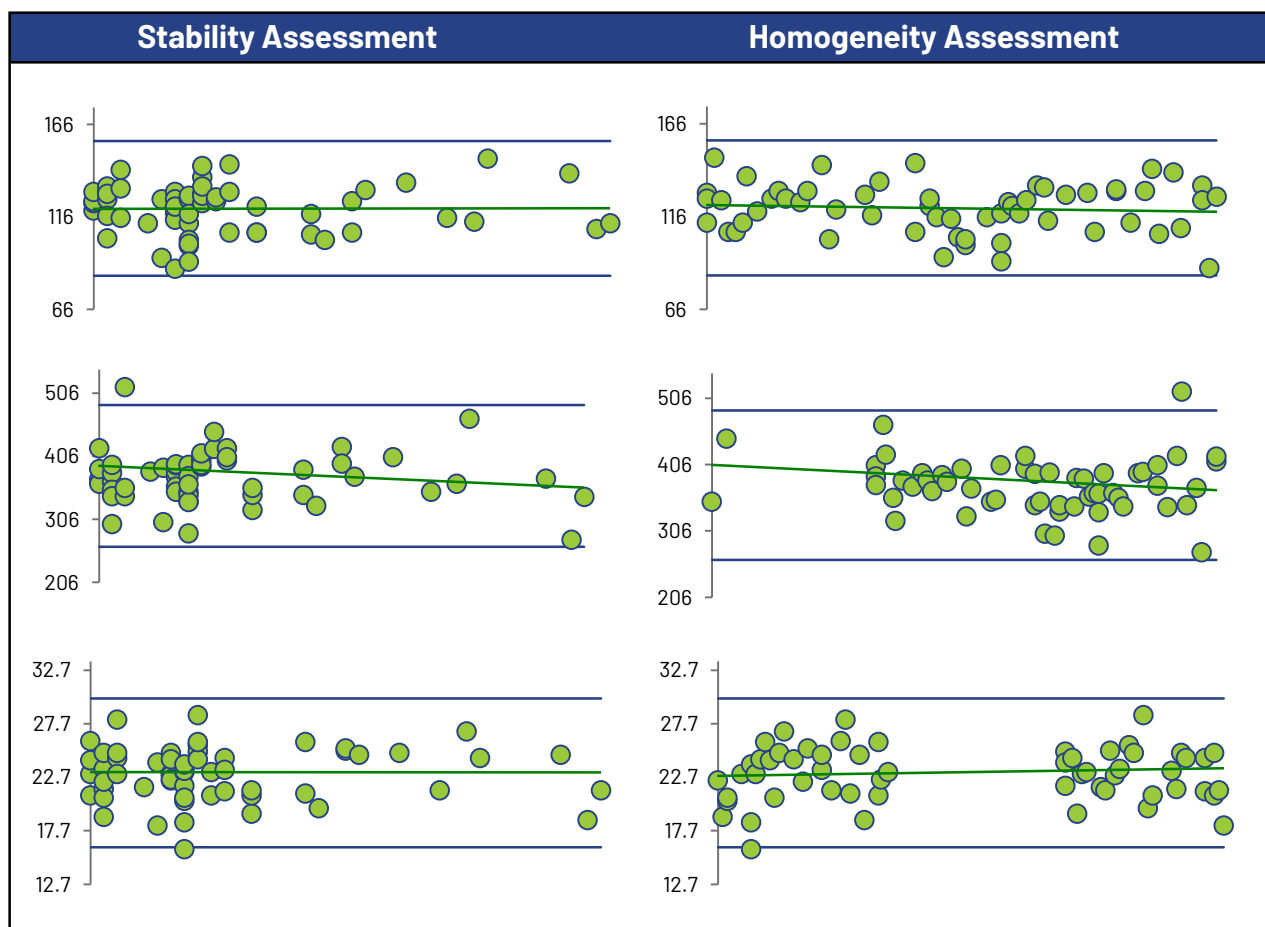
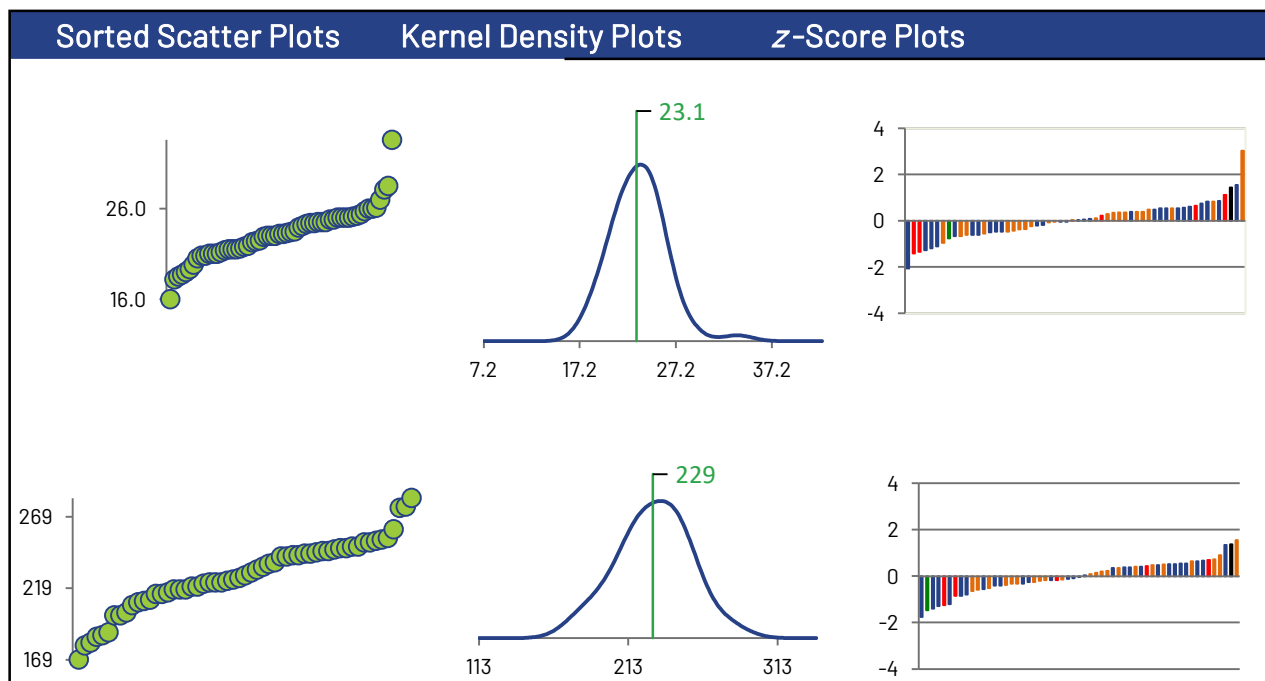
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	28	28	28	28
GC/MS (Red)	5	5	5	5
GC/FID - PURGE AND TRAP (Green)	1	1	1	1
GC/MS - HEADSPACE (Orange)	22	23	23	22
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Chlorodibromomethane



Chlorodibromomethane



Chloroform

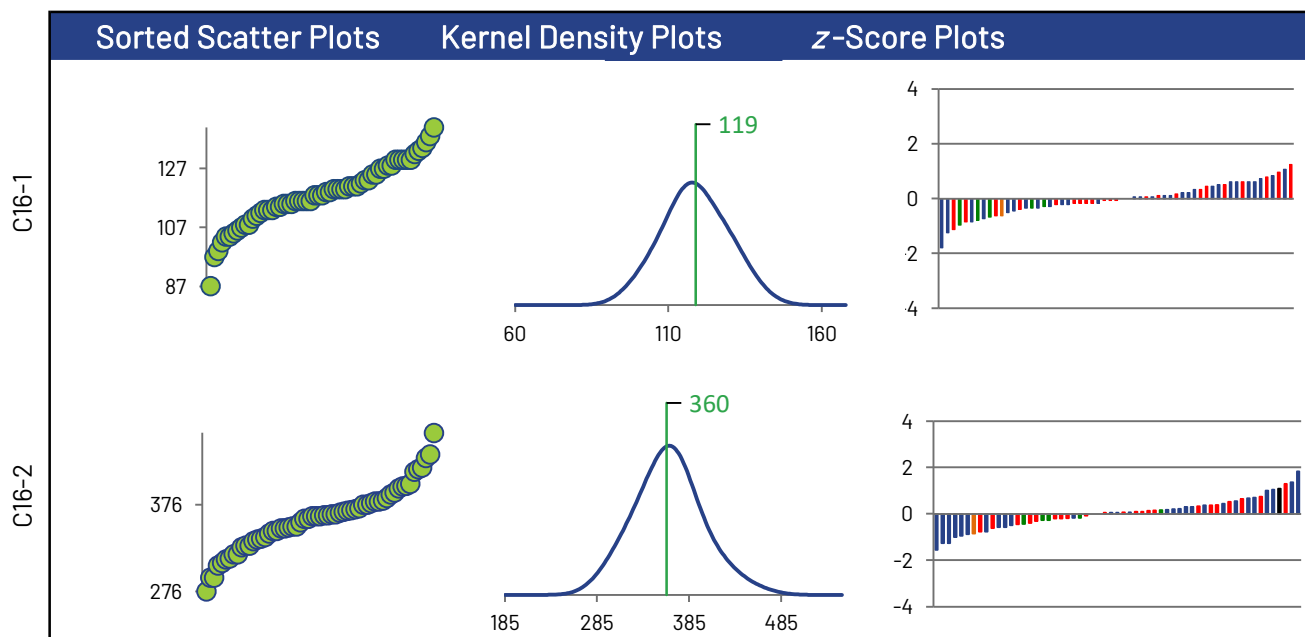
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	59	59	60	59
Median µg/L	118	363	23.9	177
Robust Mean µg/L	119	360	23.7	176
Uncertainty of the Assigned Value µg/L	1.71	5.66	0.352	2.18
Robust Standard Deviation µg/L	10.5	34.8	2.18	13.4
Regression Standard Deviation µg/L	17.8	54.1	3.56	26.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	17.8	54.1	3.56	26.5
Flagged Outliers	1	1	0	1
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	1.7			

Methods Used

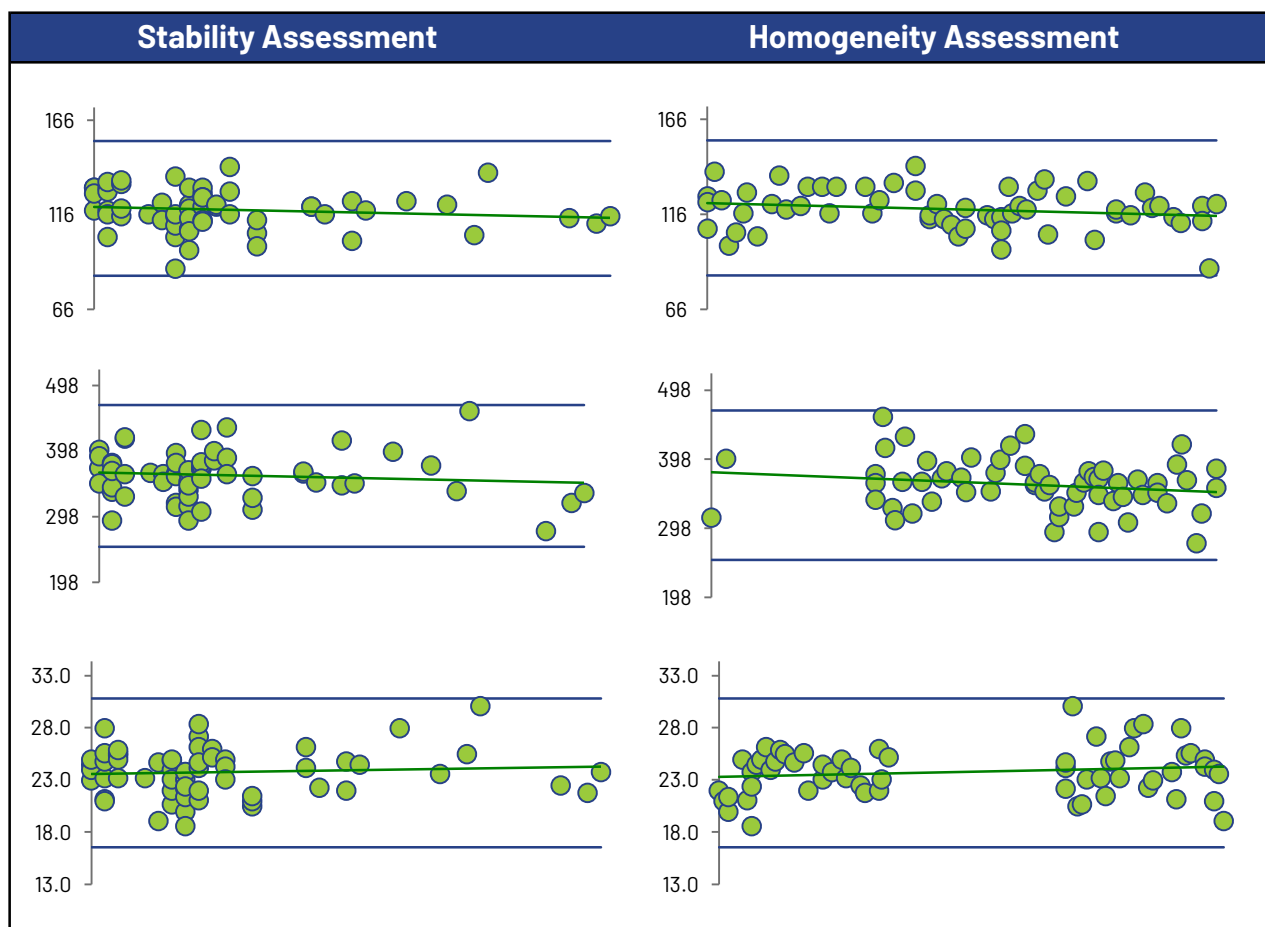
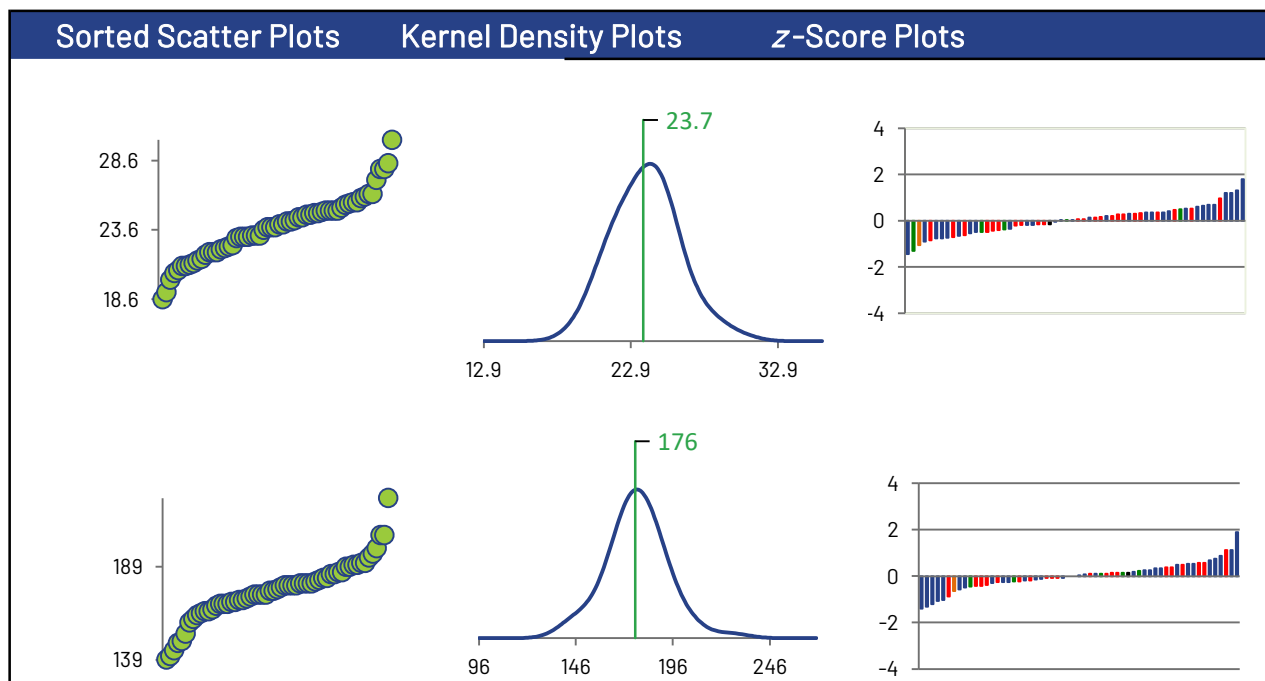
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	30	30	30	30
GC/MS - HEADSPACE (Red)	22	22	23	22
GC/MS (Green)	5	5	5	5
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

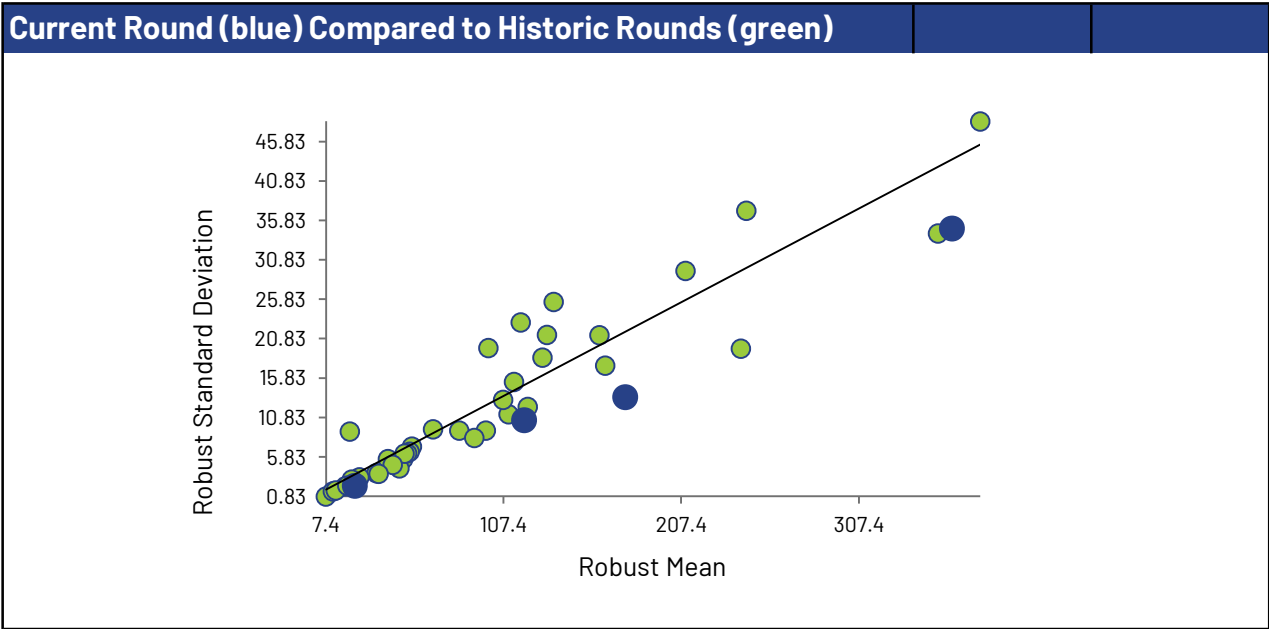
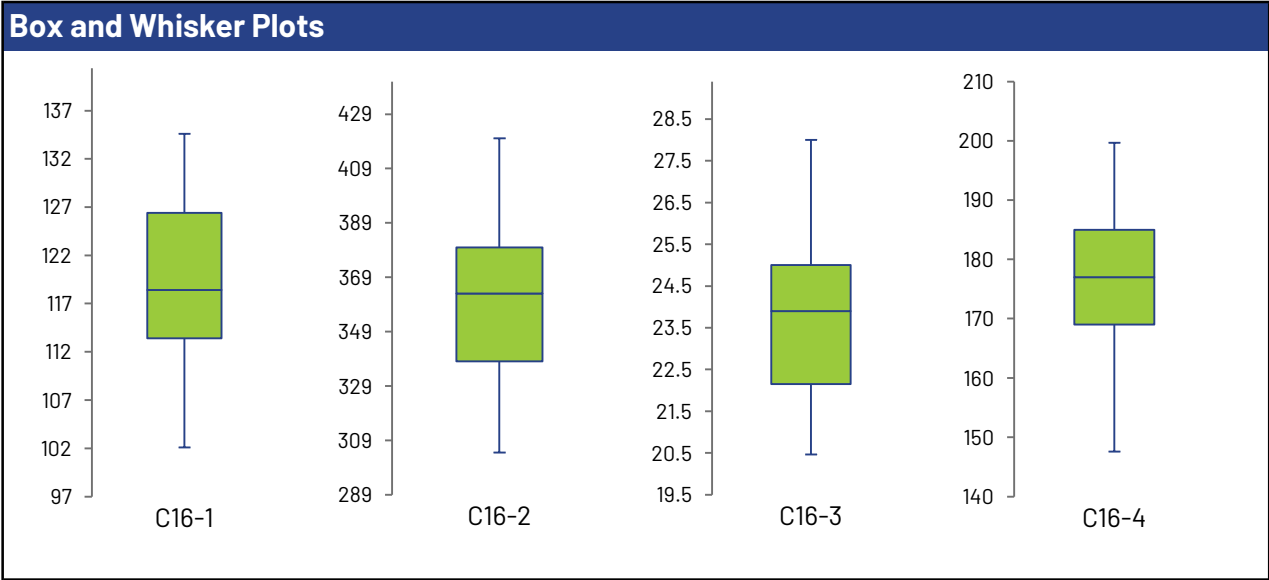
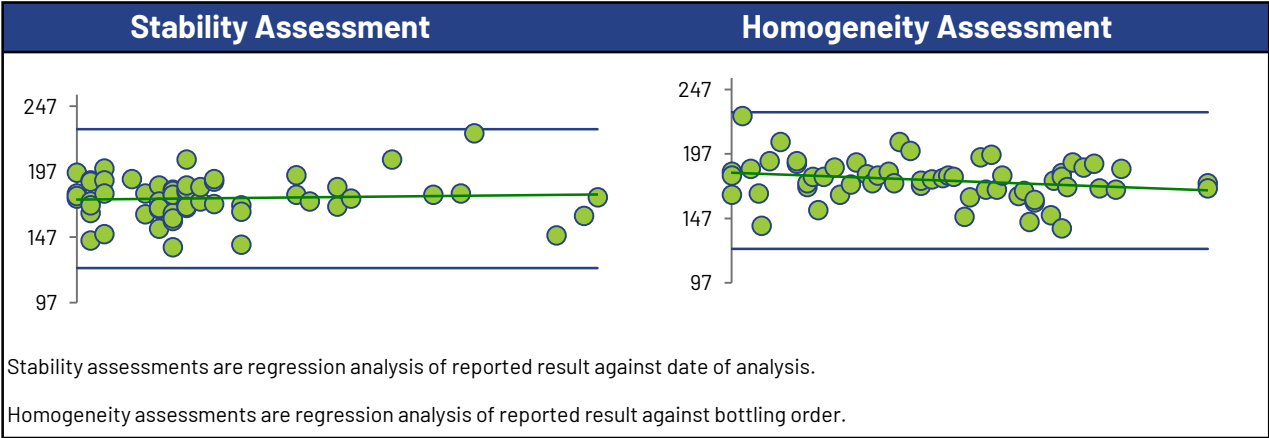


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Chloroform



Chloroform



cis-1,2-Dichloroethylene

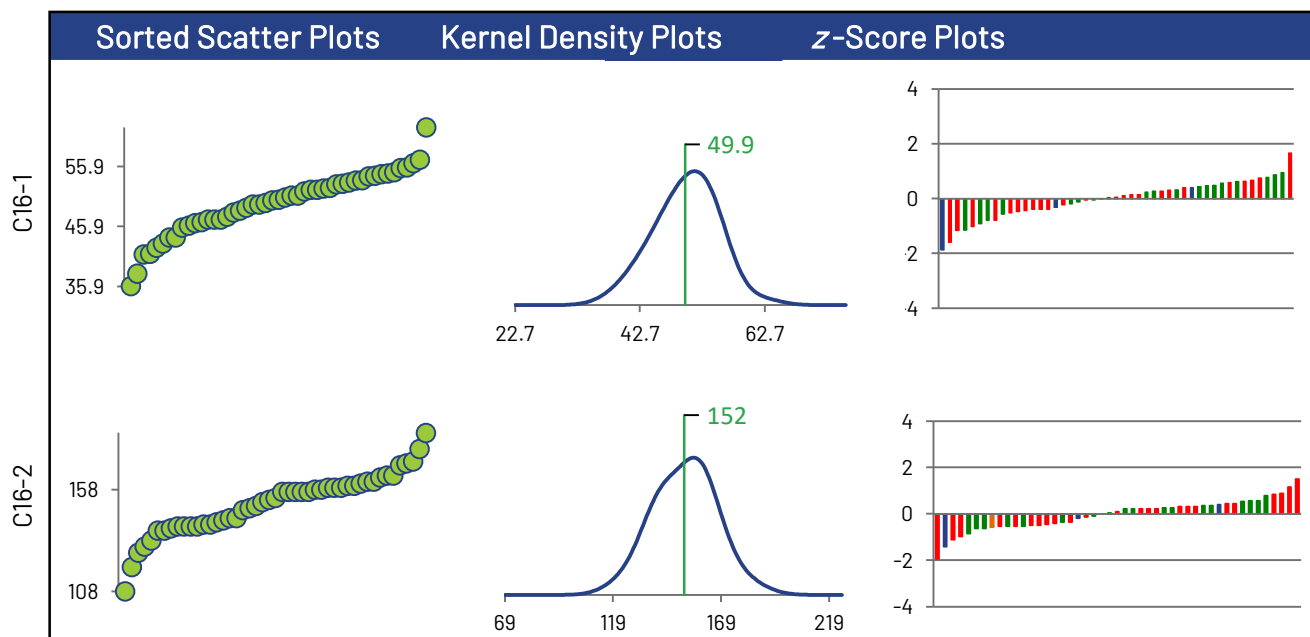
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	47	47	47	47
Median µg/L	50.3	154	9.50	62.0
Robust Mean µg/L	49.9	152	9.48	61.1
Uncertainty of the Assigned Value µg/L	0.913	2.57	0.202	1.19
Robust Standard Deviation µg/L	5.01	14.1	1.11	6.53
Regression Standard Deviation µg/L	7.48	22.7	1.42	9.16
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.48	22.7	1.42	9.16
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	1
Failure Rate %*	0.0			

Methods Used

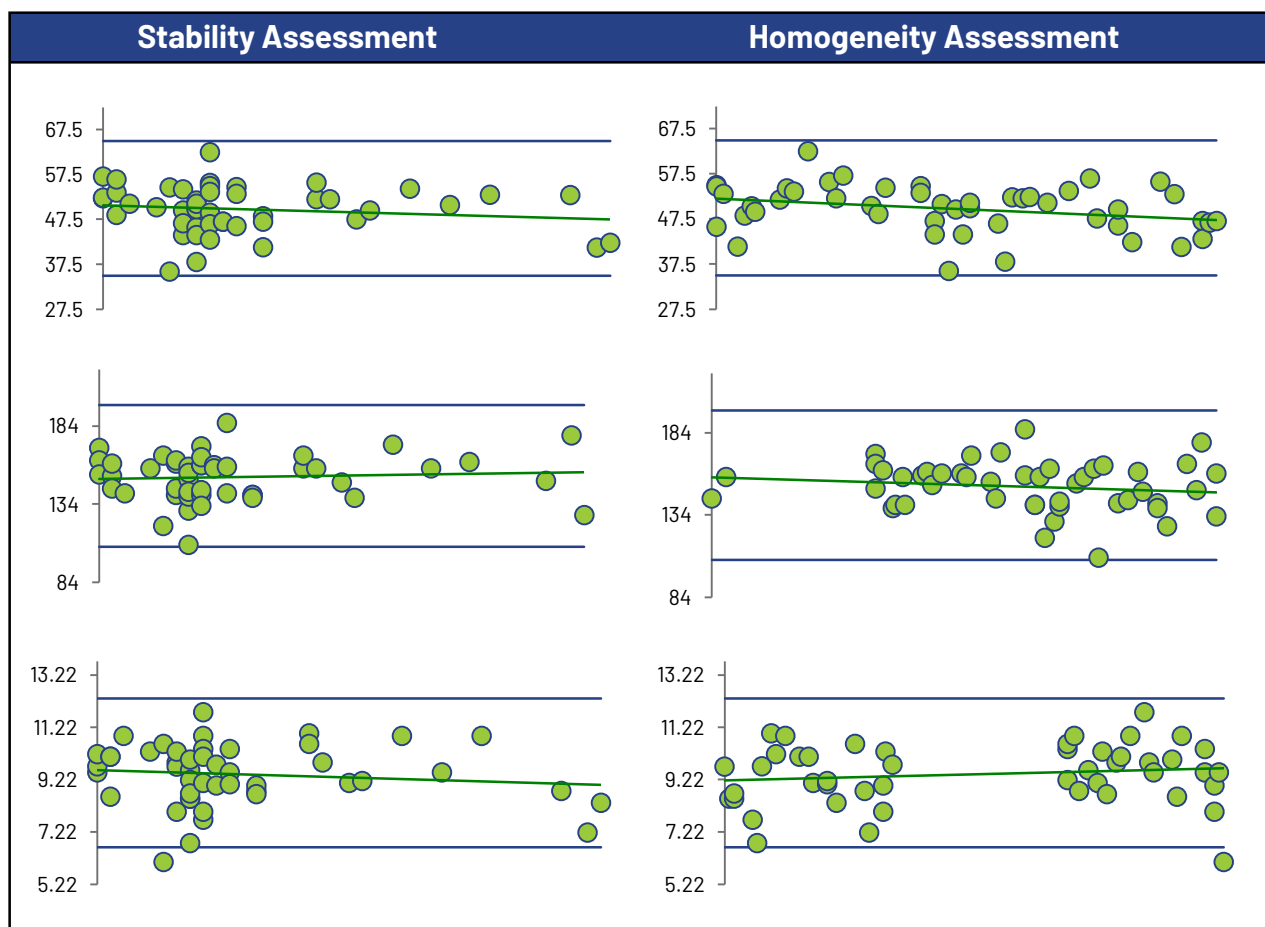
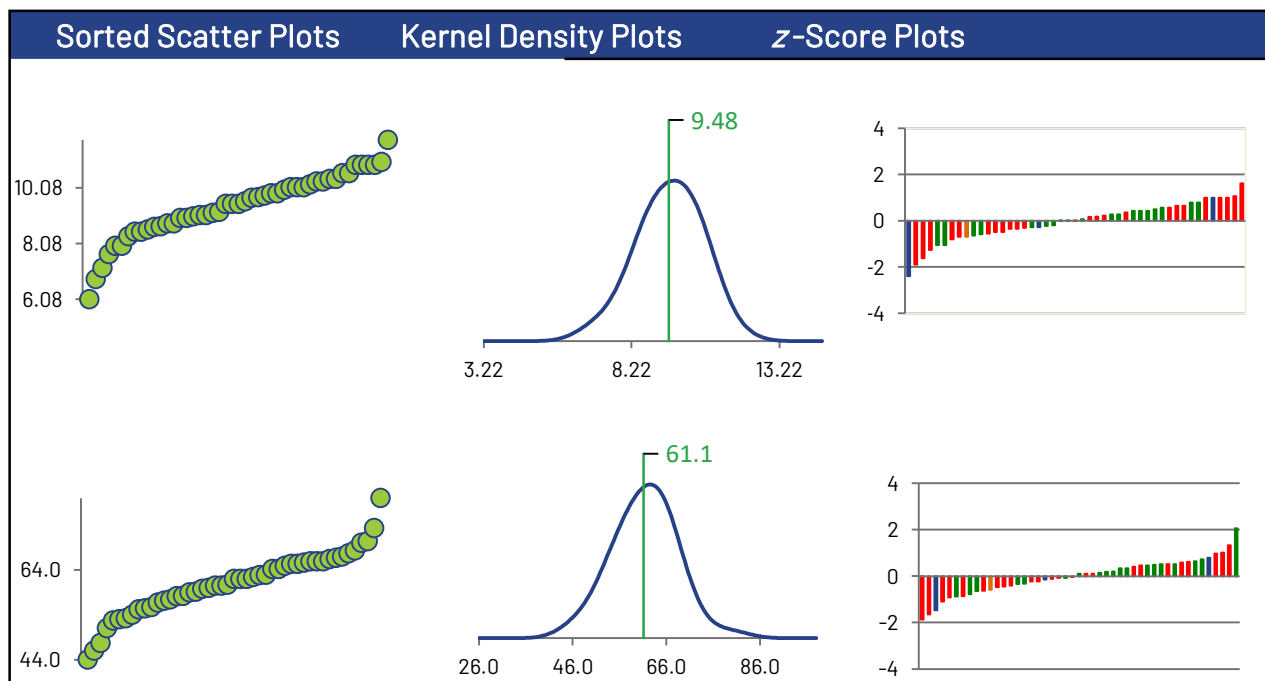
Method	C16-1	C16-2	C16-3	C16-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	24	24	24	24
GC/MS - HEADSPACE (Green)	19	19	19	19
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

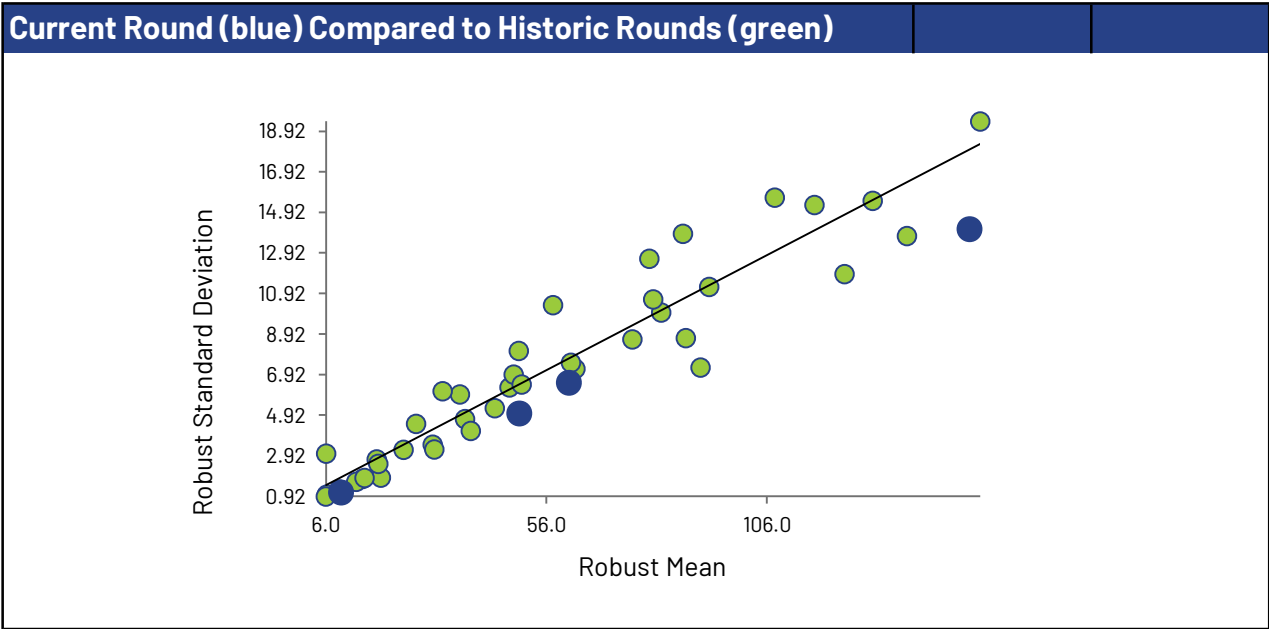
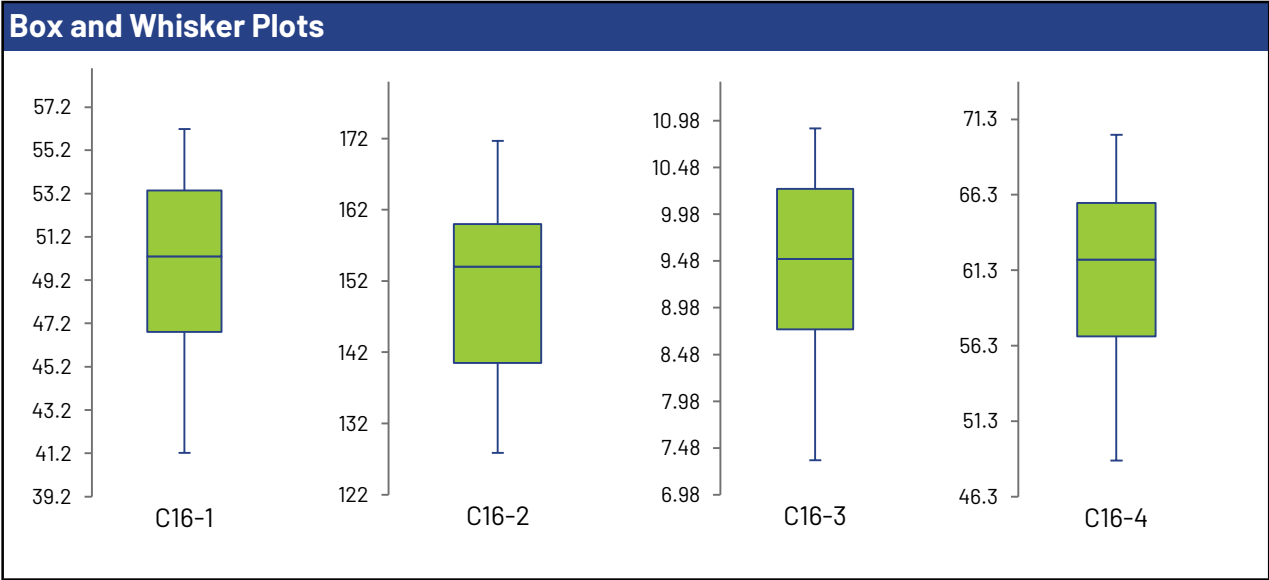
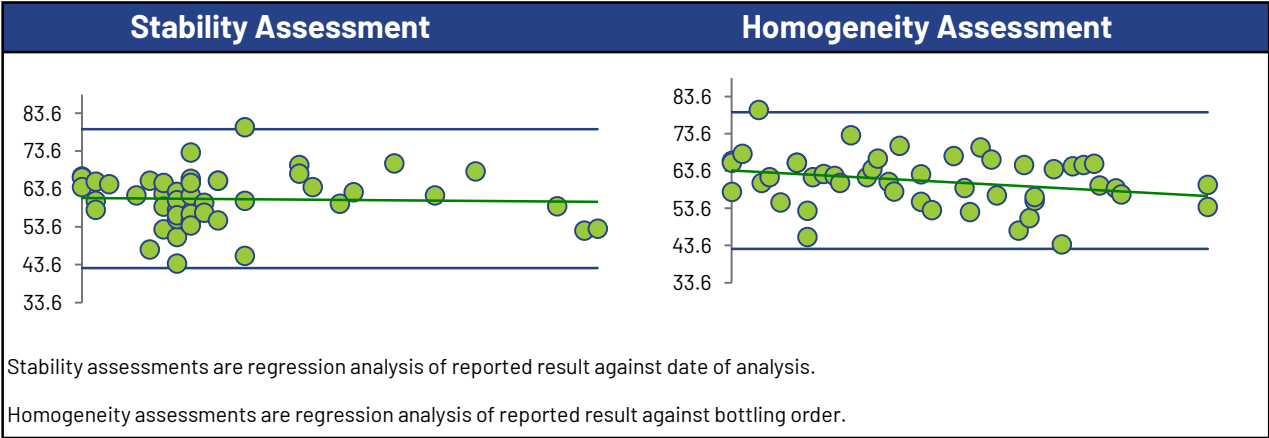


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

cis-1,2-Dichloroethylene



cis-1,2-Dichloroethylene



cis-1,3-Dichloropropene

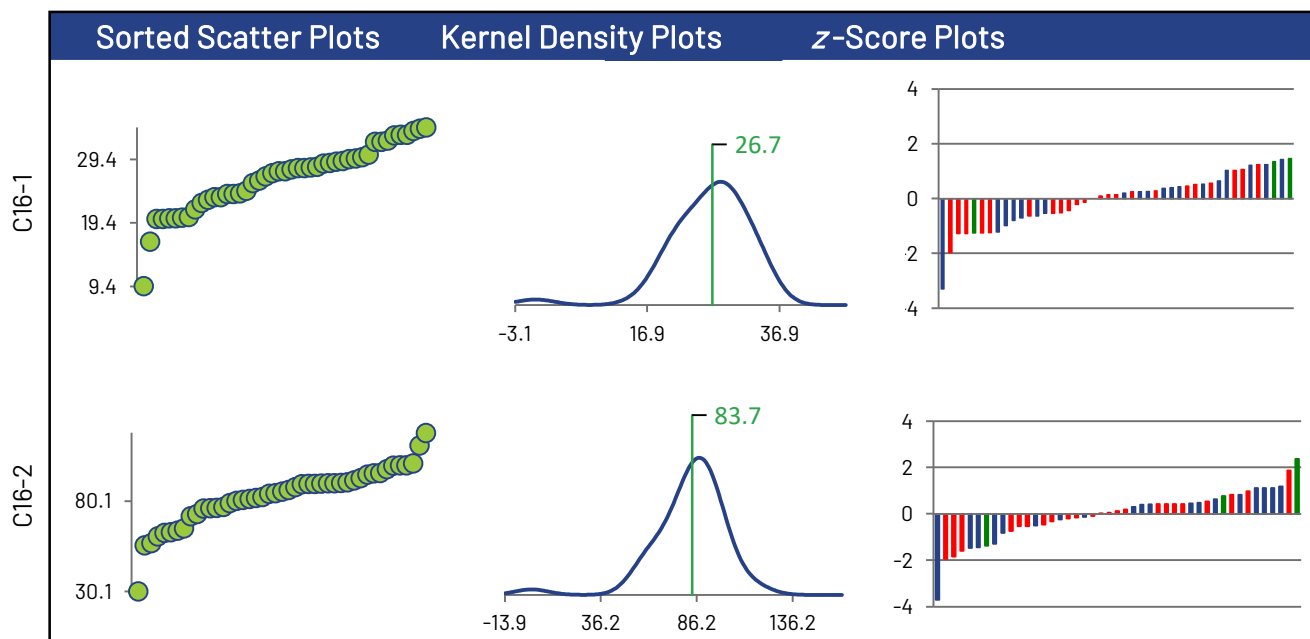
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	45	45	45	45
Median µg/L	27.5	85.5	5.29	54.3
Robust Mean µg/L	26.7	83.7	4.95	52.8
Uncertainty of the Assigned Value µg/L	0.976	2.70	0.233	1.88
Robust Standard Deviation µg/L	5.24	14.5	1.25	10.1
Regression Standard Deviation µg/L	4.01	12.6	0.743	7.92
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	5.24	14.5	1.25	10.1
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	1	0	1
$2 < z < 3$	0	1	1	0
Failure Rate %*	2.2			

Methods Used

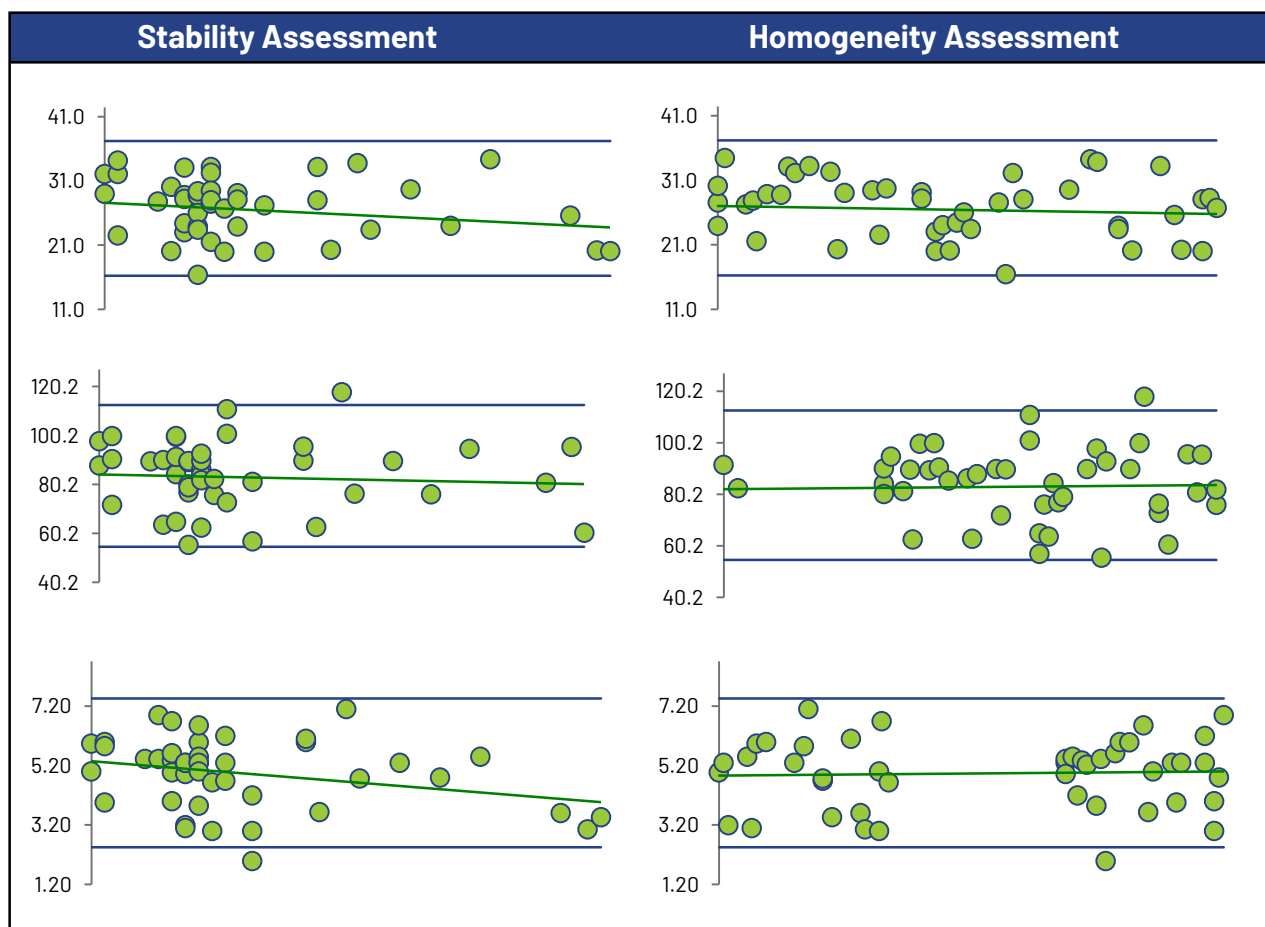
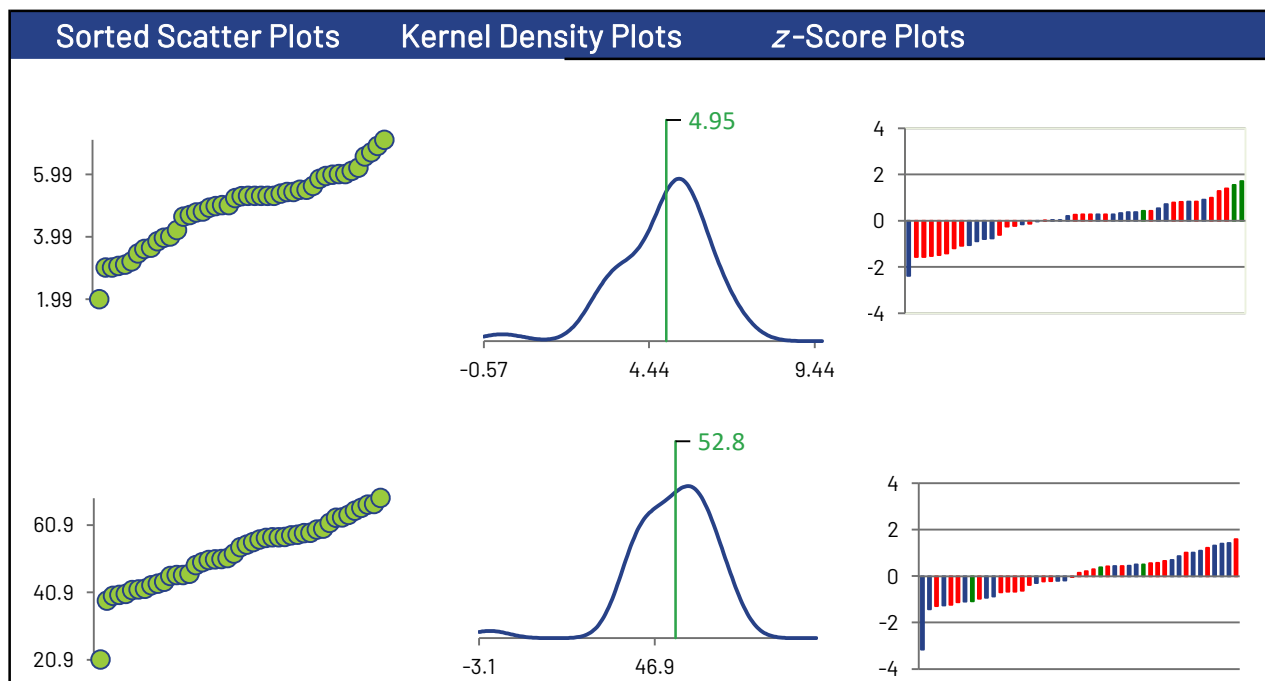
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	19	19	19	19
GC/MS - PURGE AND TRAP (Red)	23	23	23	23
GC/MS (Green)	3	3	3	3

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

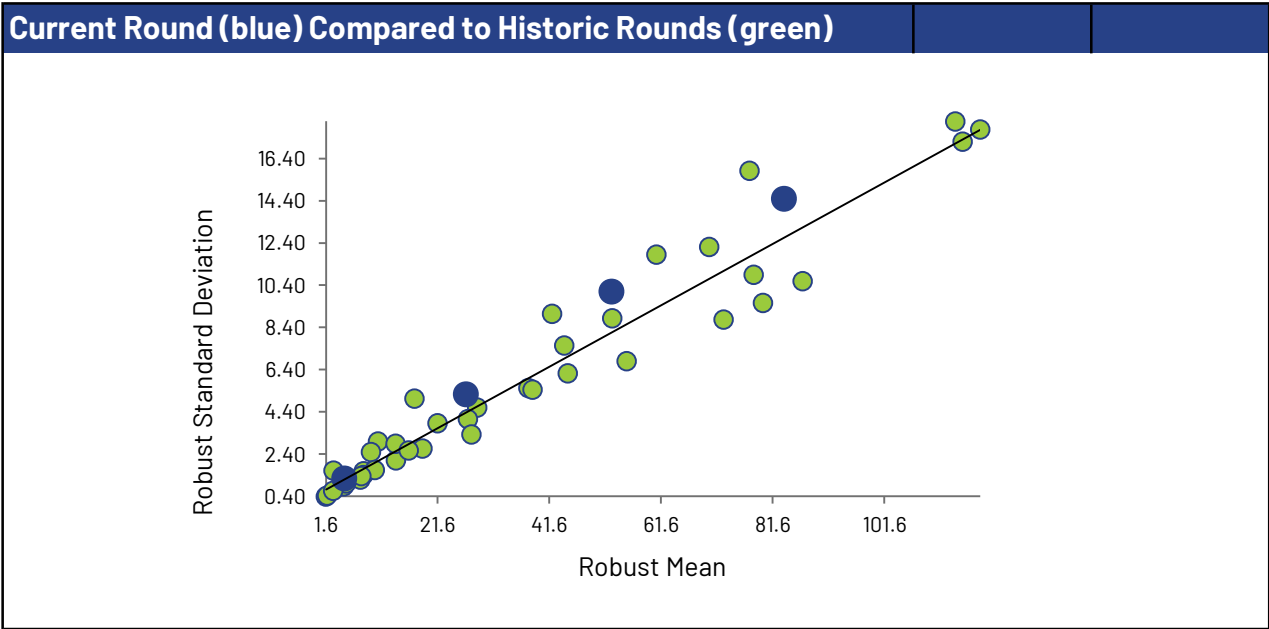
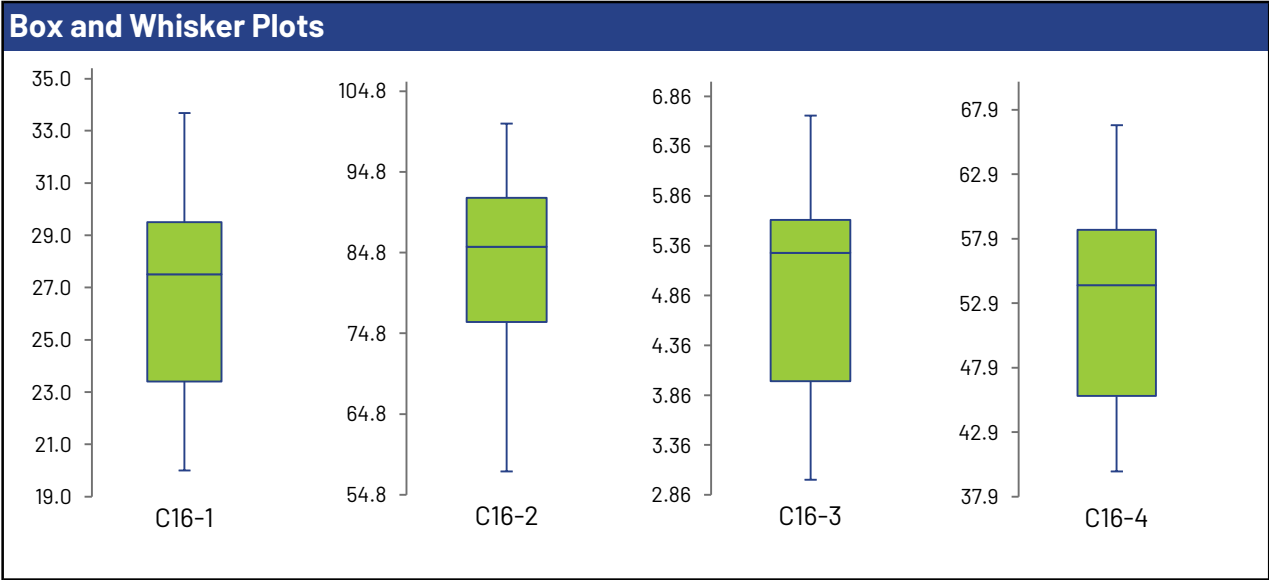
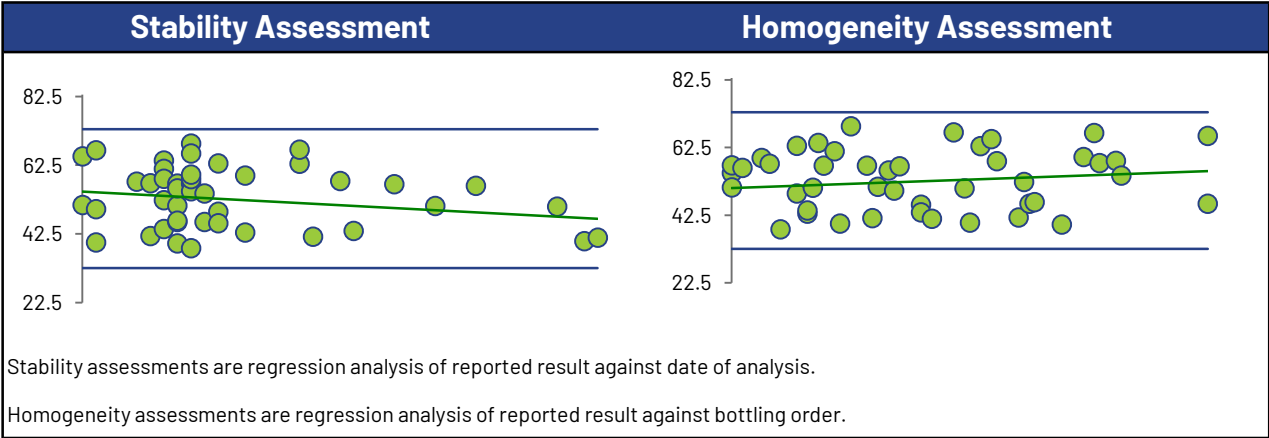


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

cis-1,3-Dichloropropene



cis-1,3-Dichloropropene



Dichloromethane

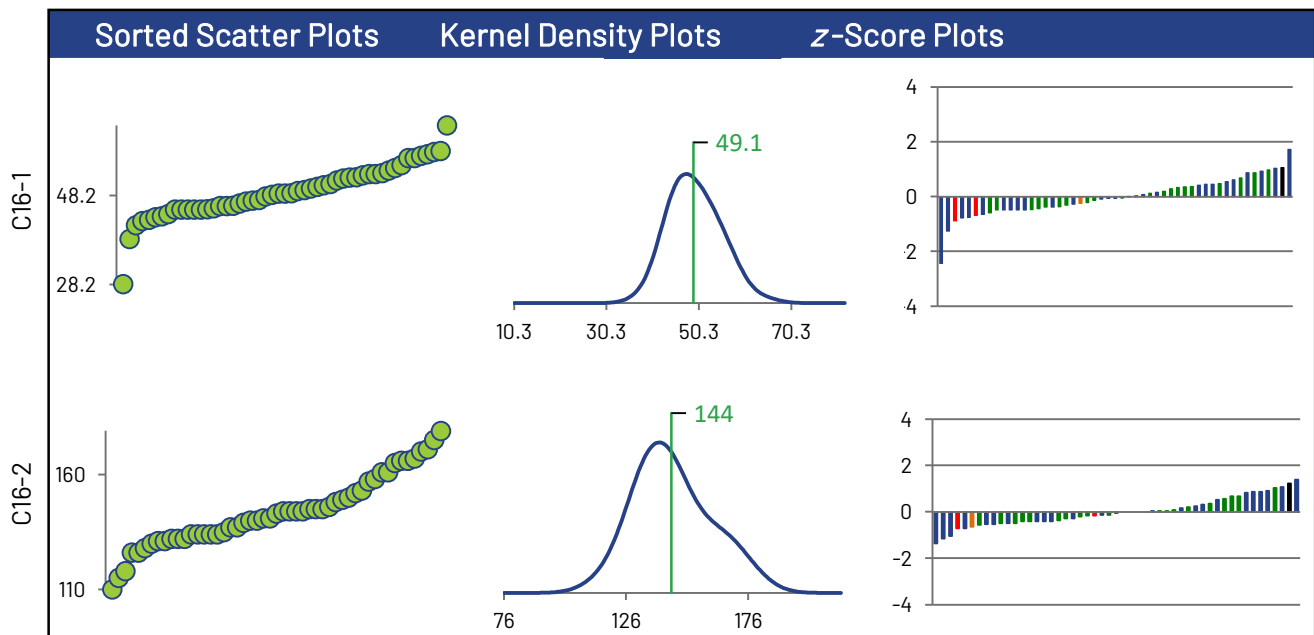
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	51	51	51	51
Median µg/L	48.6	143	11.0	55.0
Robust Mean µg/L	49.1	144	11.2	55.7
Uncertainty of the Assigned Value µg/L	0.963	2.75	0.236	1.25
Robust Standard Deviation µg/L	5.50	15.7	1.35	7.12
Regression Standard Deviation µg/L	8.59	25.2	1.97	9.75
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	8.59	25.2	1.97	9.75
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	1	3
Failure Rate %*	0.0			

Methods Used

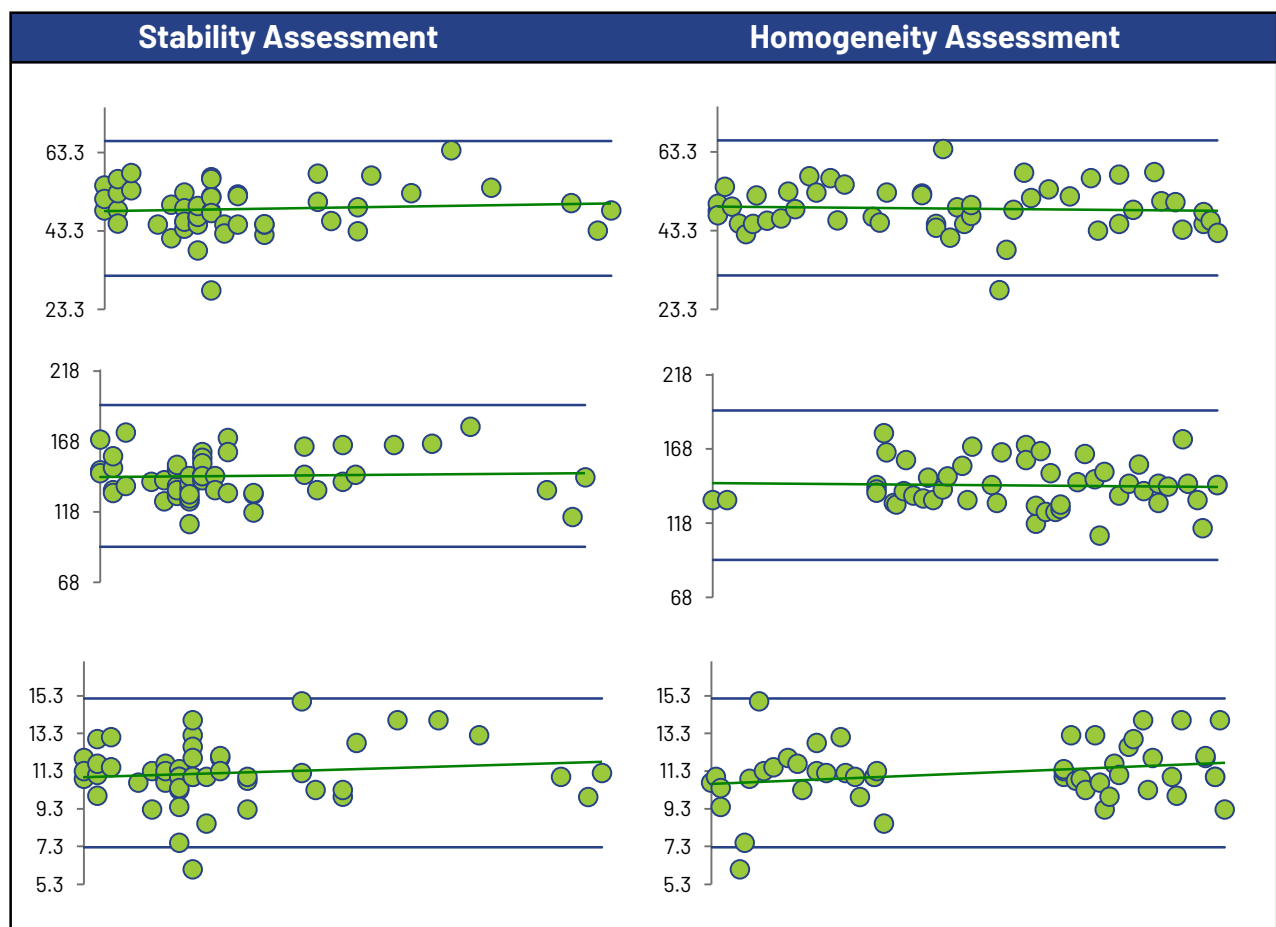
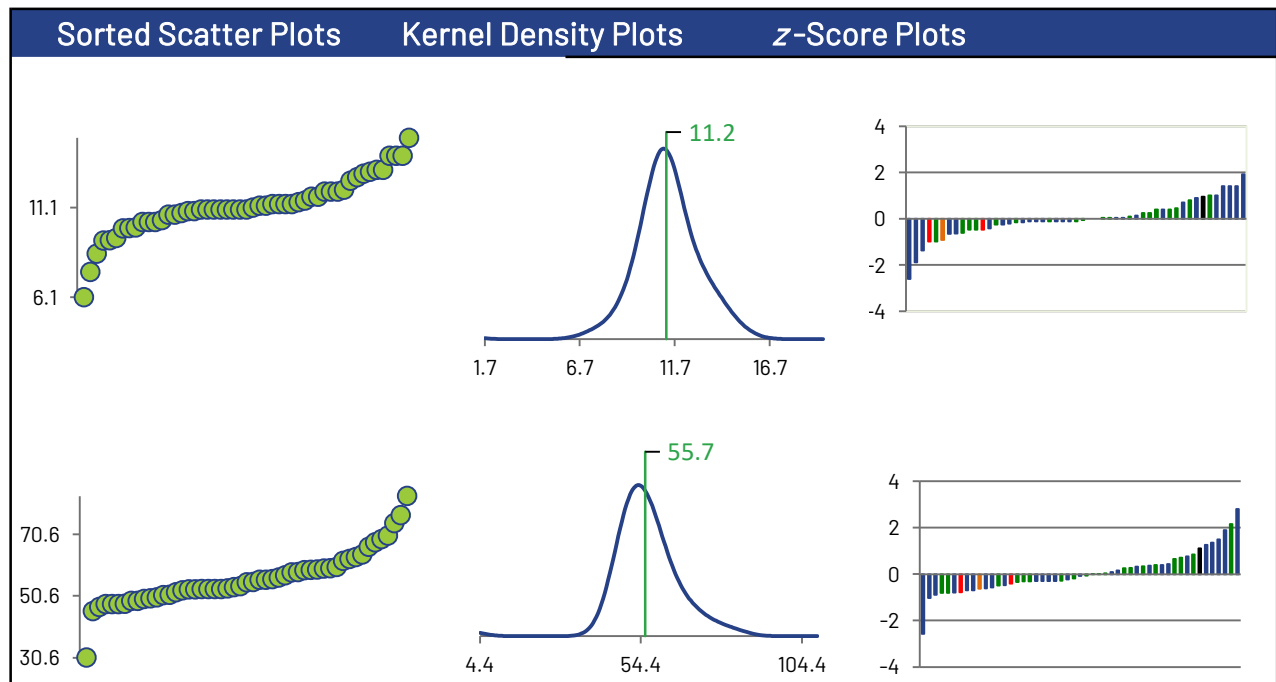
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	27	27	27	27
GC/MS (Red)	2	2	2	2
GC/MS - HEADSPACE (Green)	20	20	20	20
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

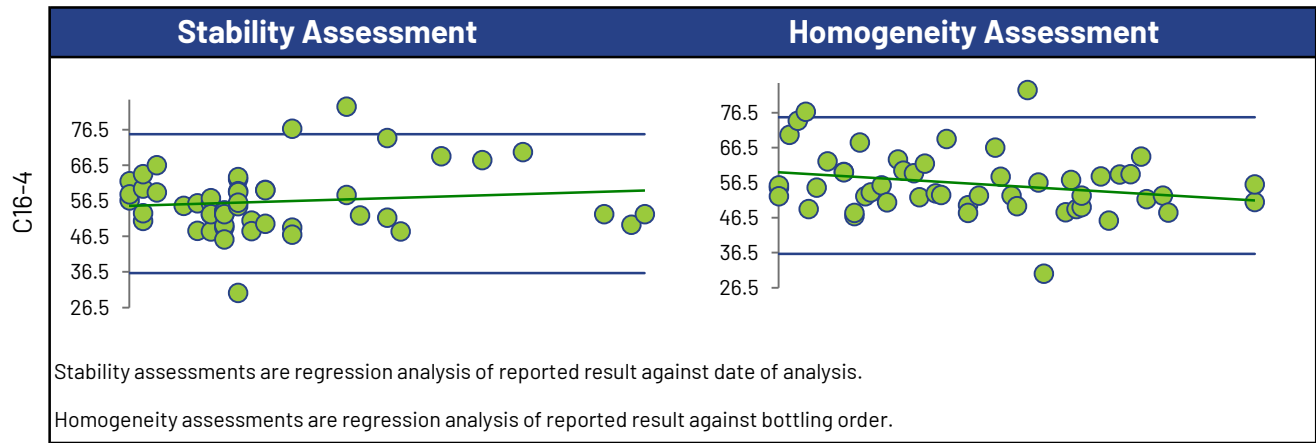


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

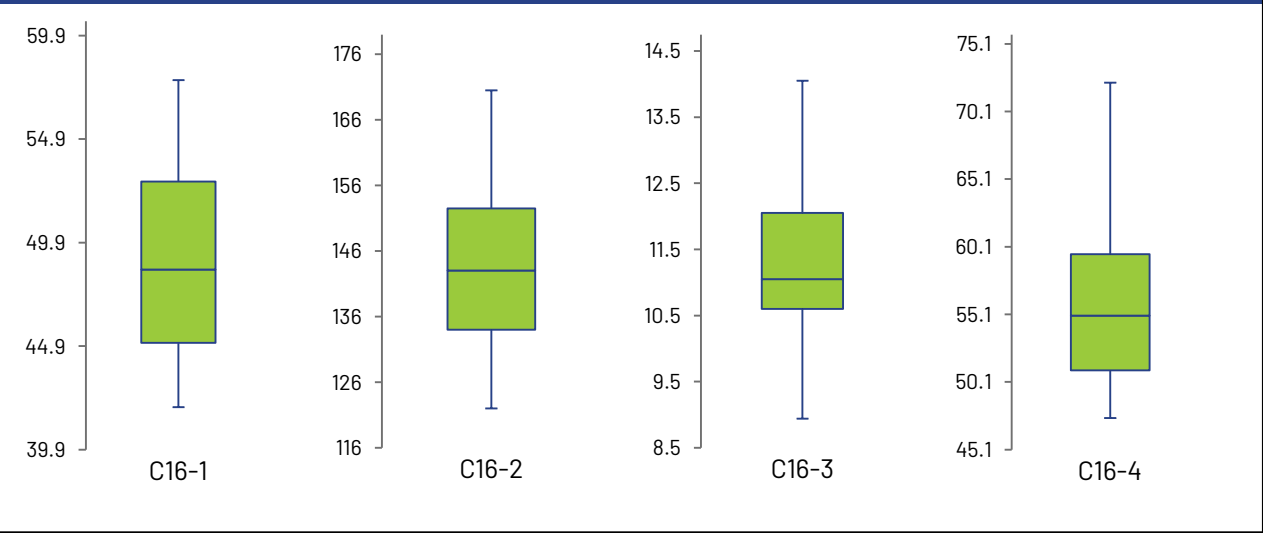
Dichloromethane



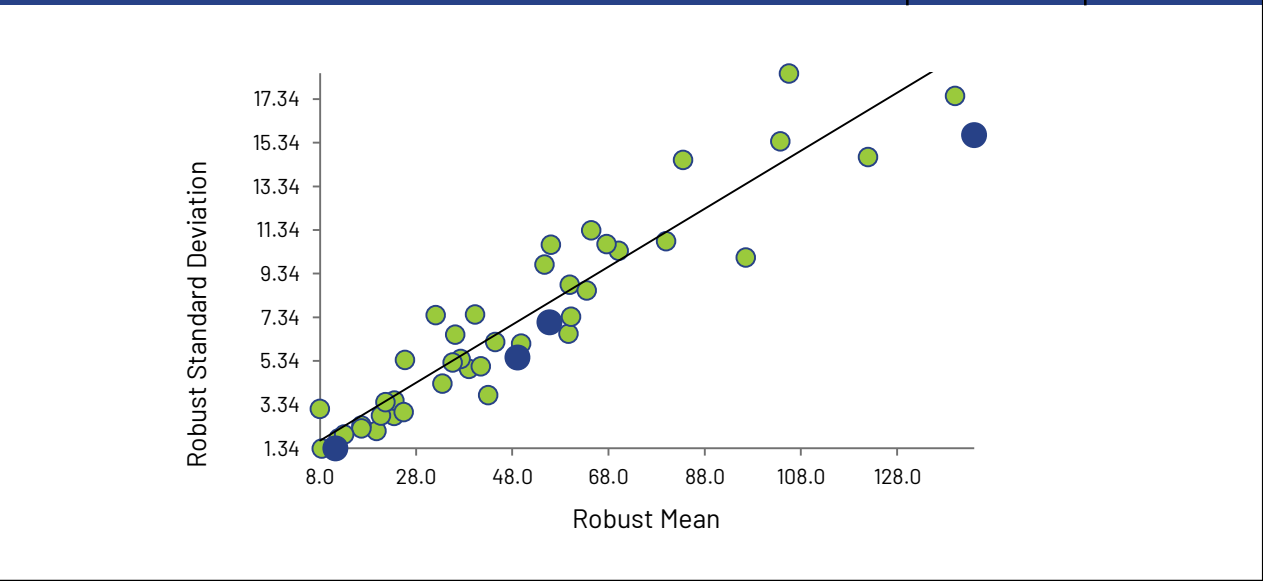
Dichloromethane



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Ethylbenzene

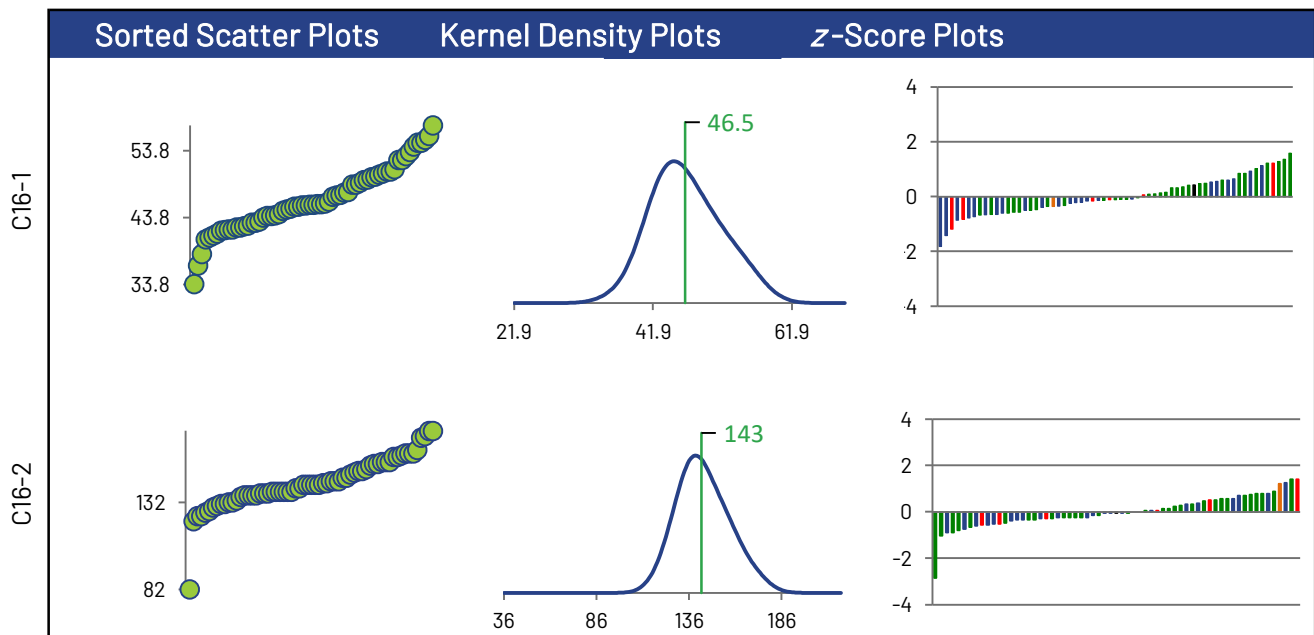
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	63	63	63	63
Median µg/L	45.7	142	8.95	68.4
Robust Mean µg/L	46.5	143	8.87	69.2
Uncertainty of the Assigned Value µg/L	0.764	2.03	0.183	1.01
Robust Standard Deviation µg/L	4.85	12.9	1.16	6.44
Regression Standard Deviation µg/L	6.97	21.5	1.33	10.4
Stability Flag				Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	6.97	21.5	1.33	11.2
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	1
$2 < z < 3$	0	1	6	0
Failure Rate %*	1.6			

Methods Used

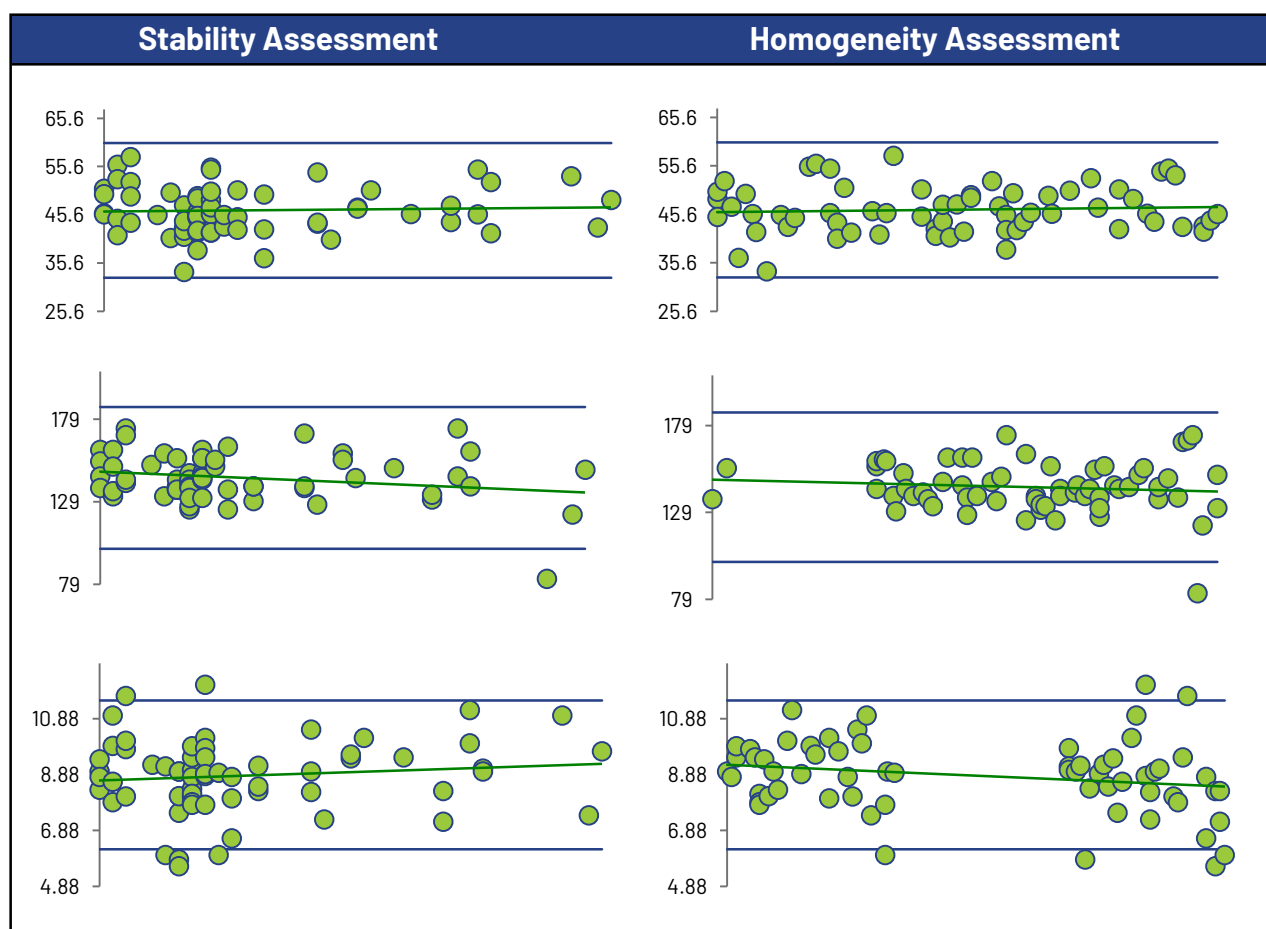
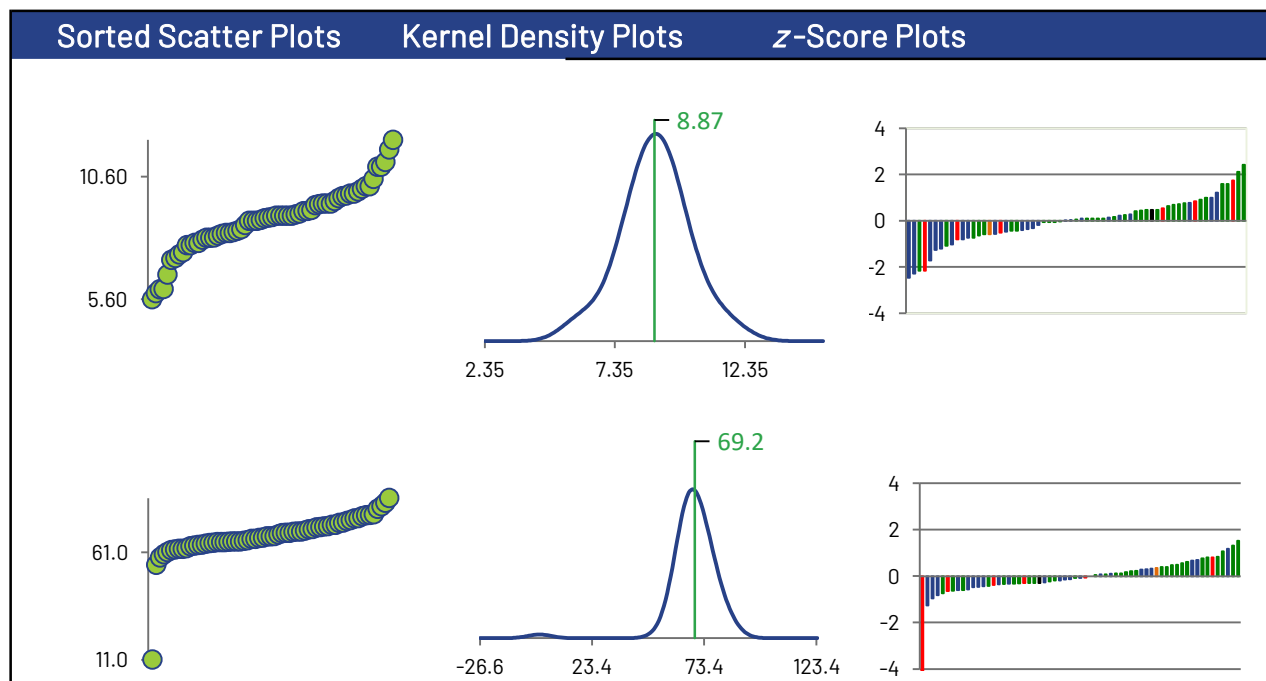
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	23	23	23	23
GC/MS (Red)	6	6	6	6
GC/MS - PURGE AND TRAP (Green)	32	32	32	32
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

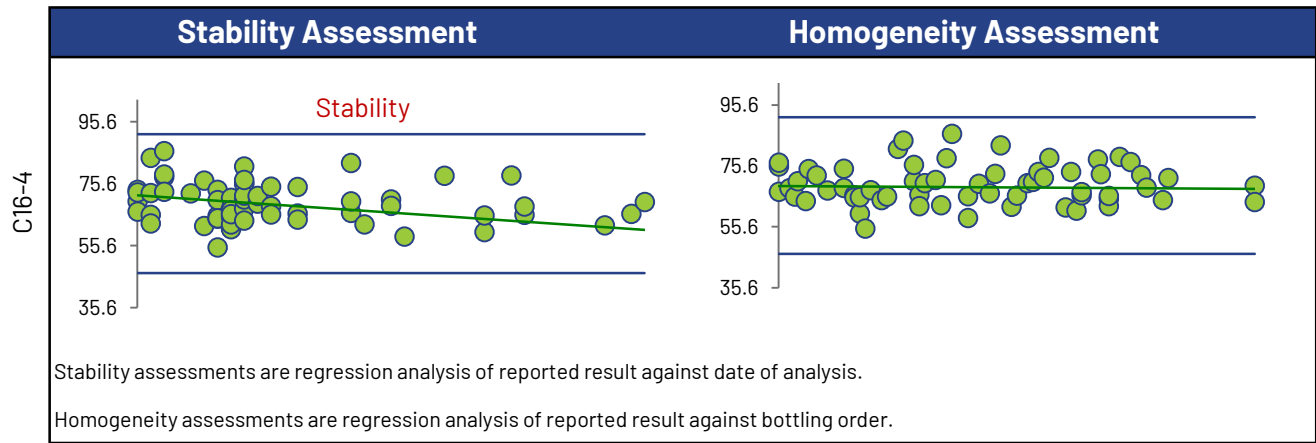


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

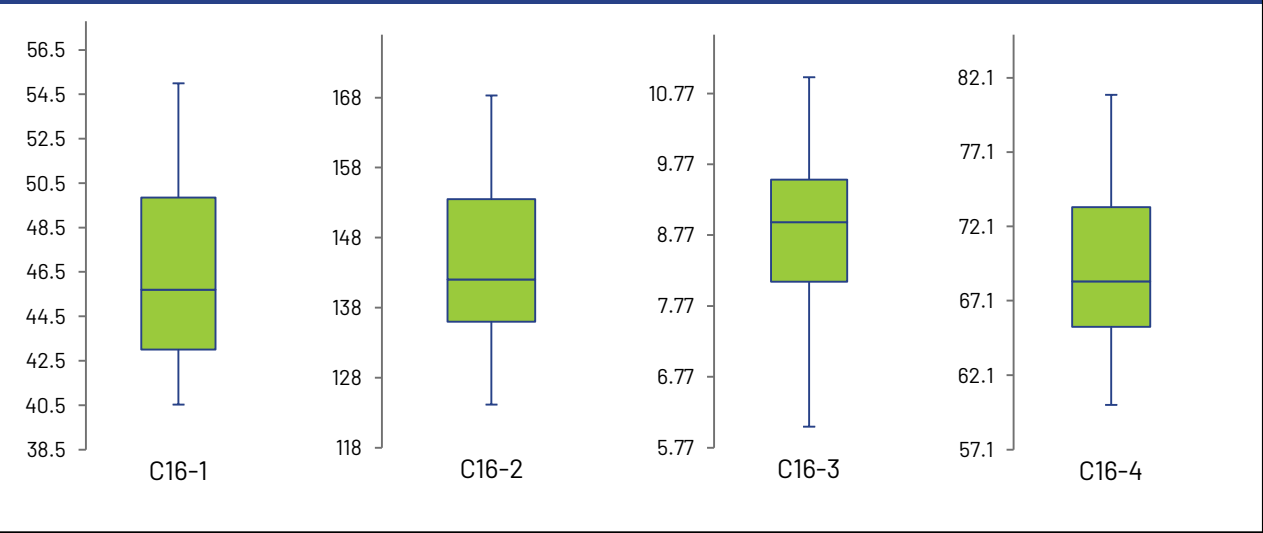
Ethylbenzene



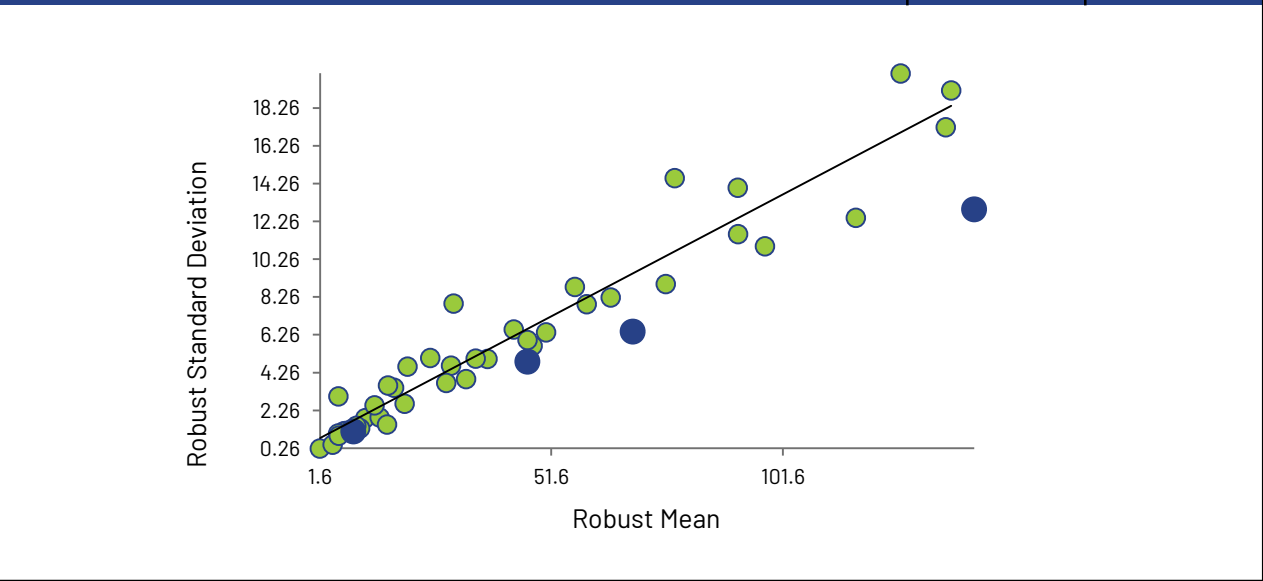
Ethylbenzene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Ethylene Dibromide

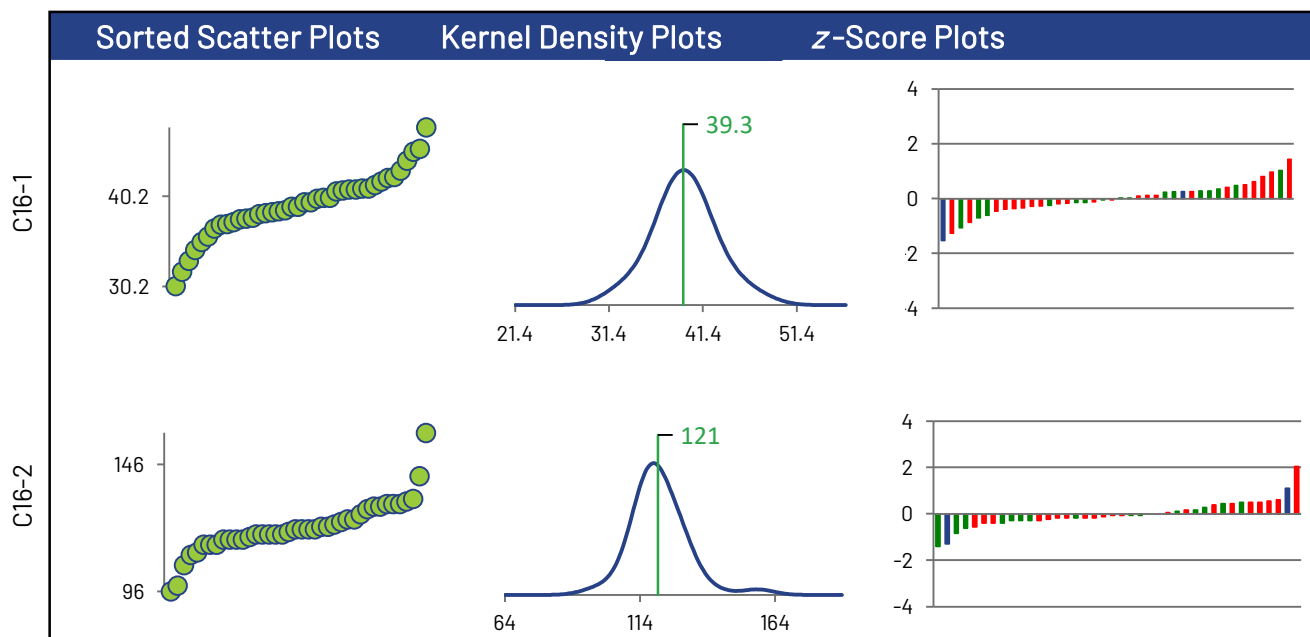
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	40	40	40	40
Median µg/L	39.3	120	7.36	83.0
Robust Mean µg/L	39.3	121	7.43	82.8
Uncertainty of the Assigned Value µg/L	0.615	1.59	0.174	1.23
Robust Standard Deviation µg/L	3.11	8.03	0.882	6.21
Regression Standard Deviation µg/L	5.89	18.1	1.11	12.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	5.89	18.1	1.11	12.4
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	1	0
$2 < z < 3$	0	1	1	1
Failure Rate %*	0.0			

Methods Used

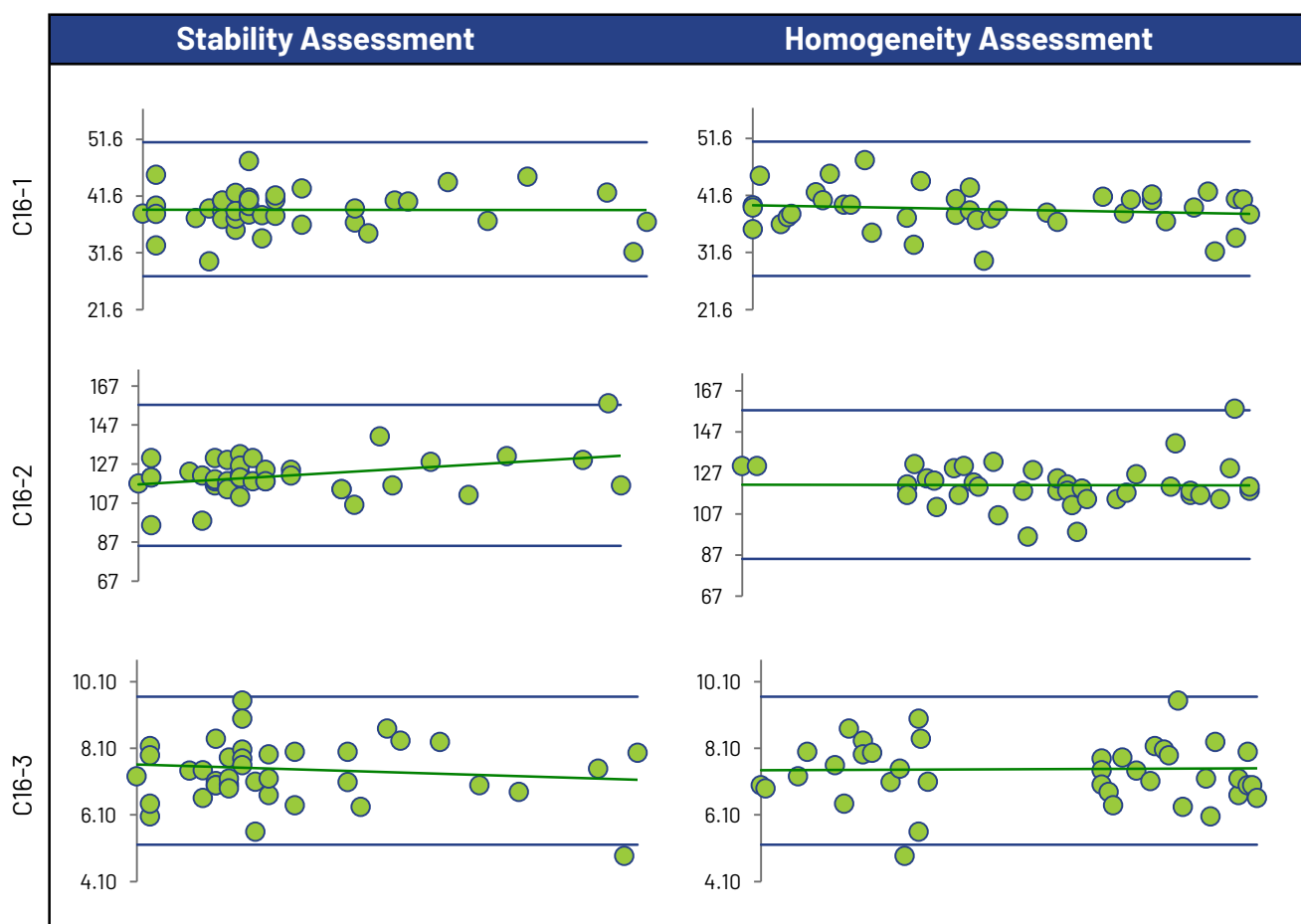
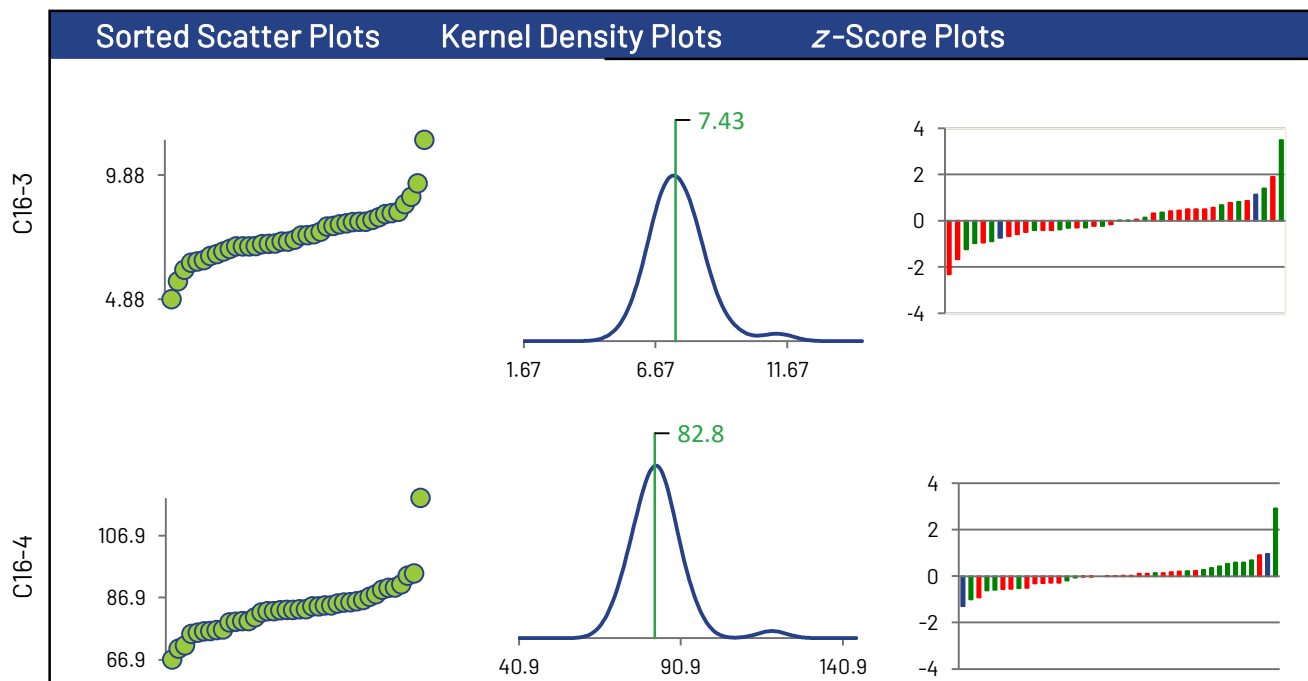
Method	C16-1	C16-2	C16-3	C16-4
GC/MS (Blue)	2	2	2	2
GC/MS - PURGE AND TRAP (Red)	22	22	22	22
GC/MS - HEADSPACE (Green)	16	16	16	16

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

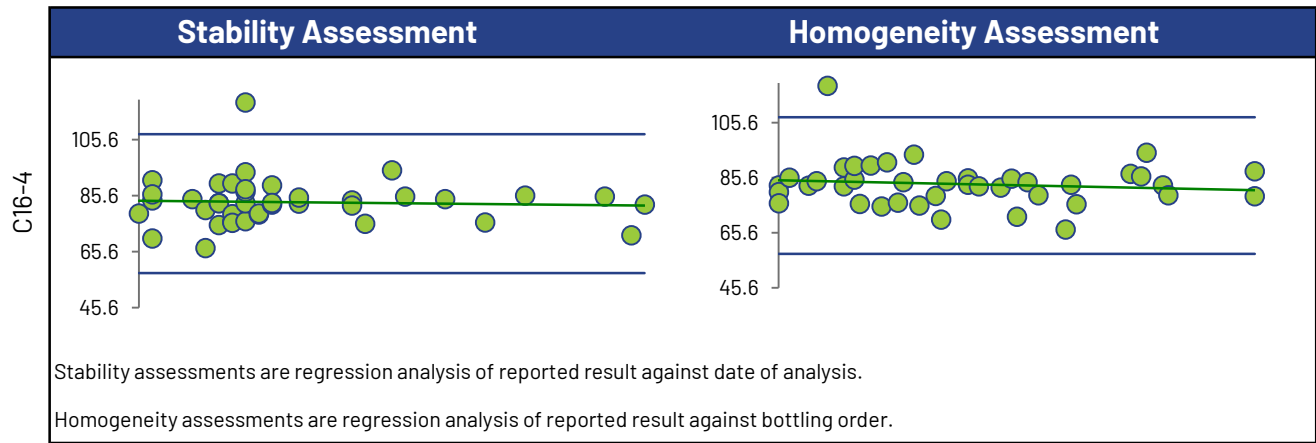


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

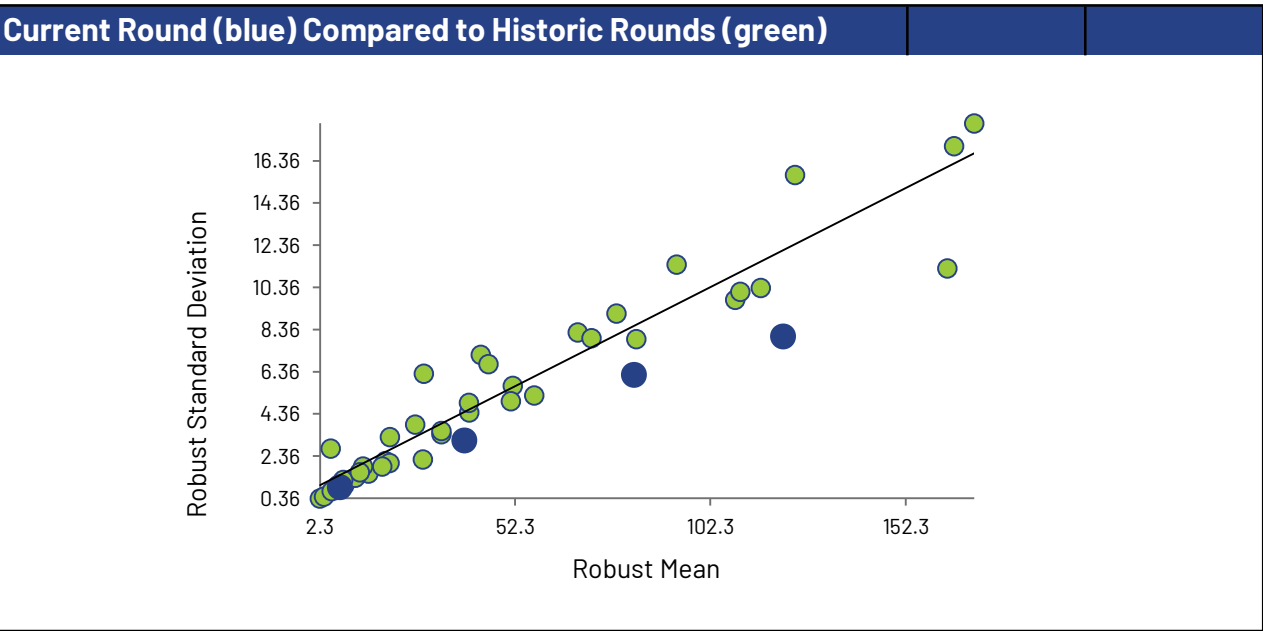
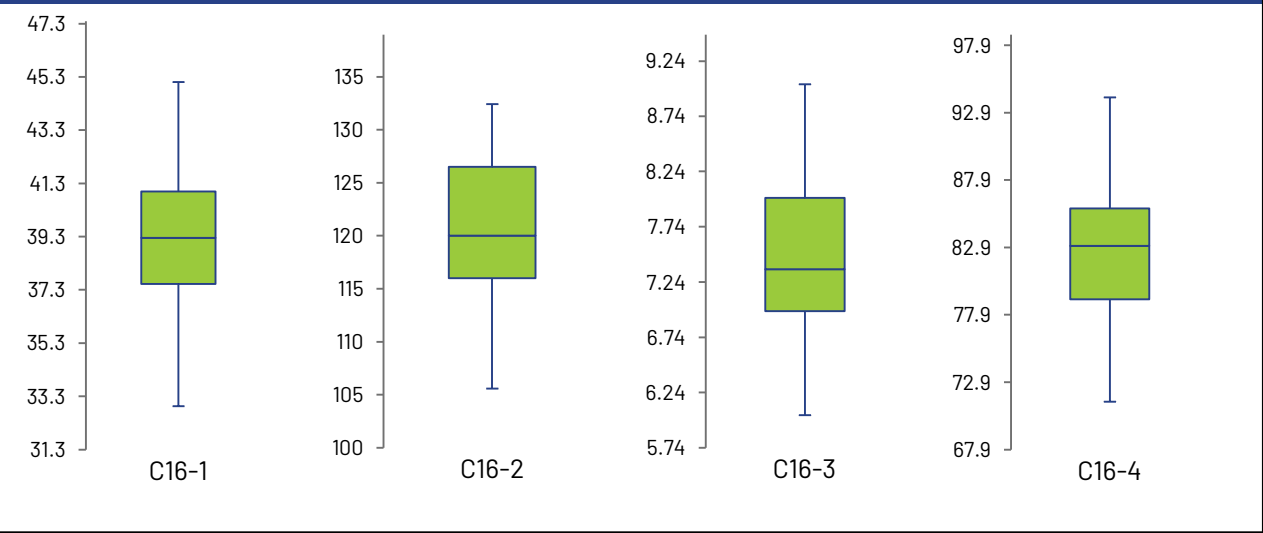
Ethylene Dibromide



Ethylene Dibromide



Box and Whisker Plots



m,p-Xylene

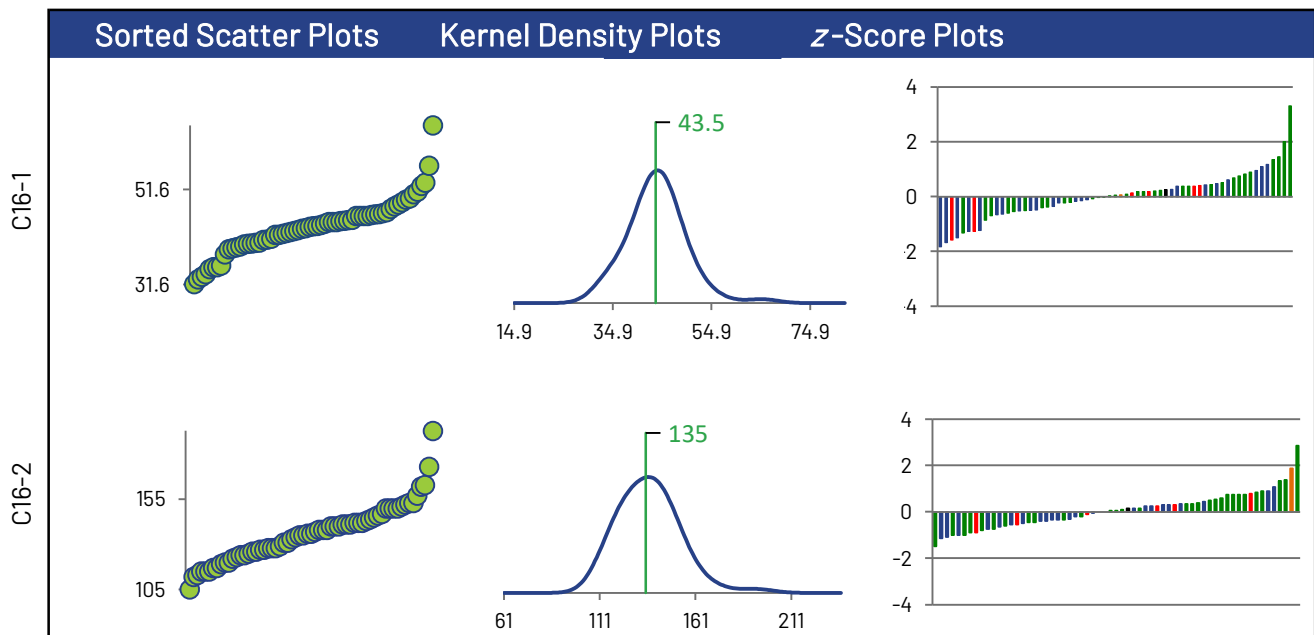
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	63	63	63	63
Median µg/L	43.8	136	8.20	134
Robust Mean µg/L	43.5	135	8.24	136
Uncertainty of the Assigned Value µg/L	0.795	2.35	0.222	2.72
Robust Standard Deviation µg/L	5.05	14.9	1.41	17.3
Regression Standard Deviation µg/L	6.52	20.3	1.24	20.4
Stability Flag				Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	6.52	20.3	1.41	33.1
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	0	1	1
$2 < z < 3$	1	1	2	2
Failure Rate %*	1.6			

Methods Used

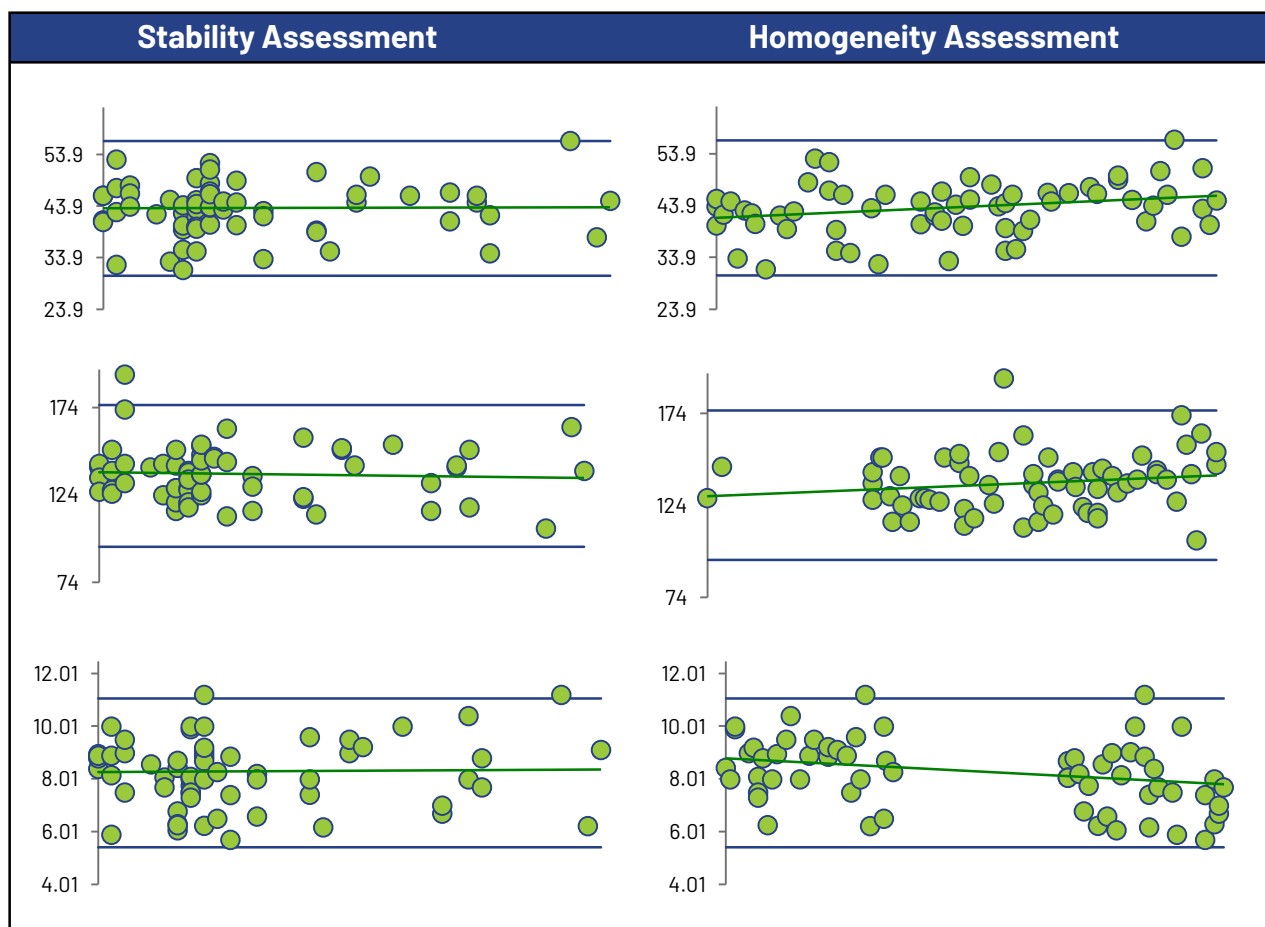
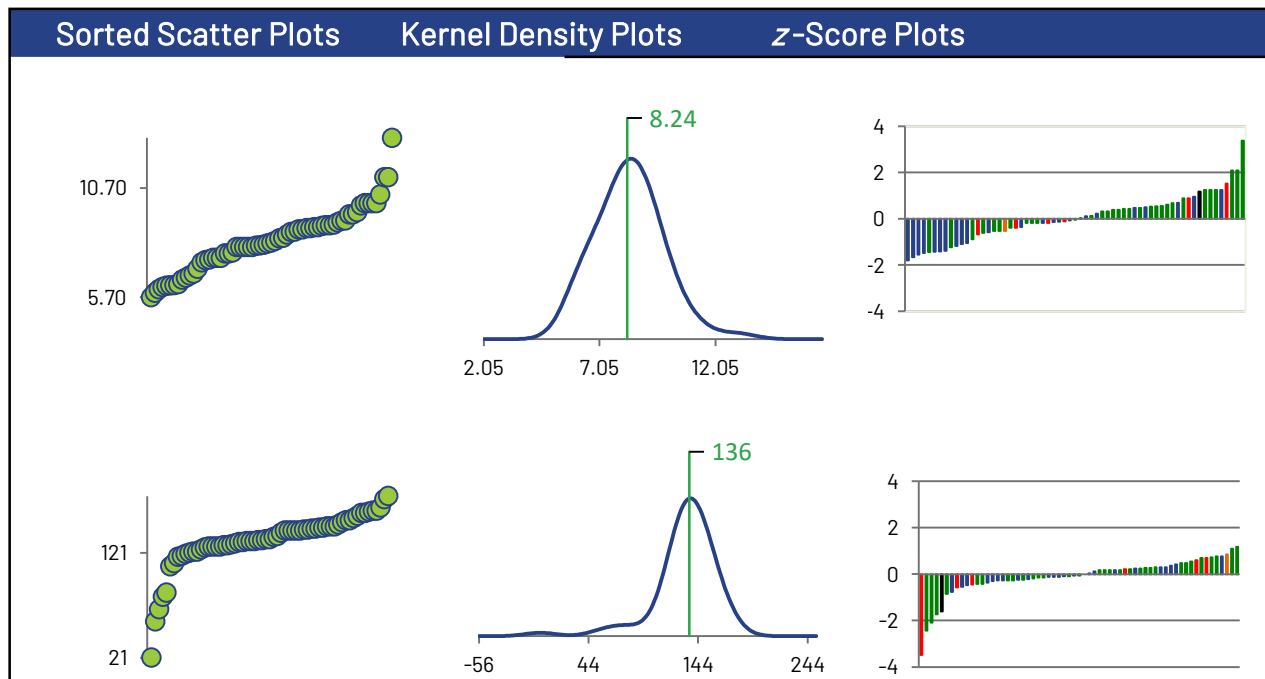
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	23	23	23	23
GC/MS (Red)	6	6	6	6
GC/MS - PURGE AND TRAP (Green)	32	32	32	32
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

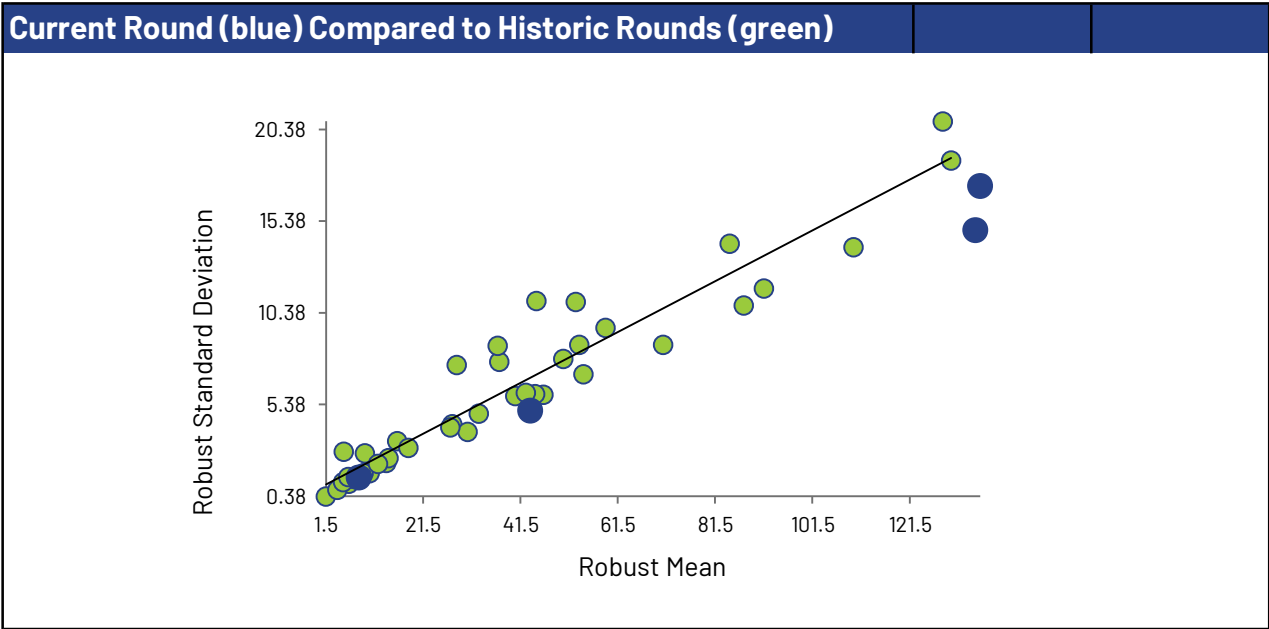
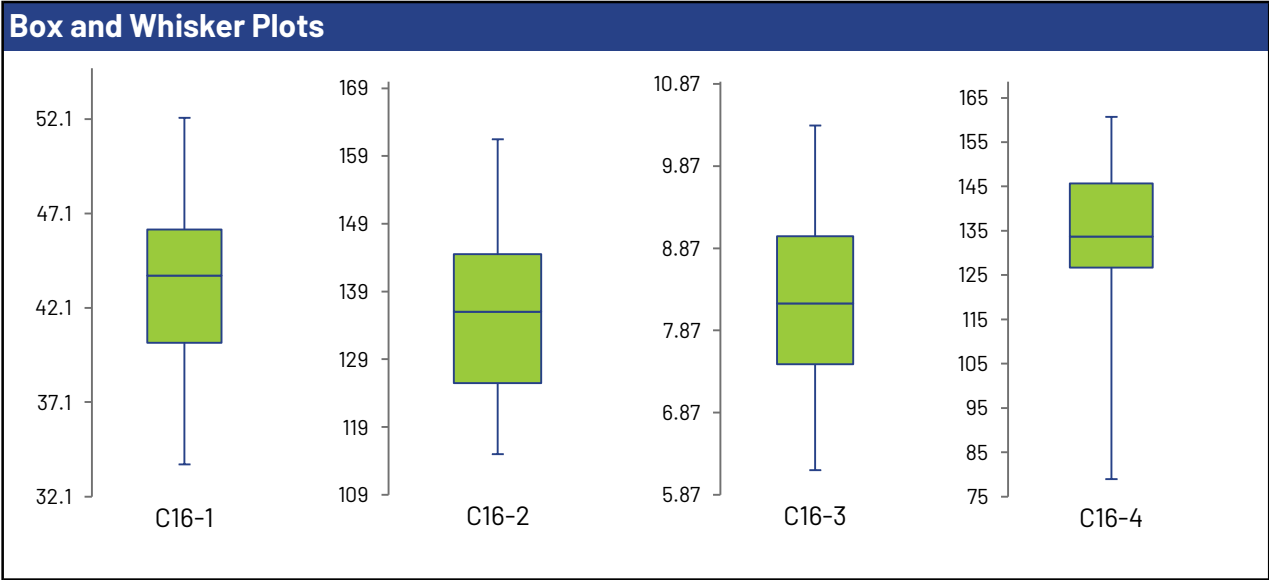
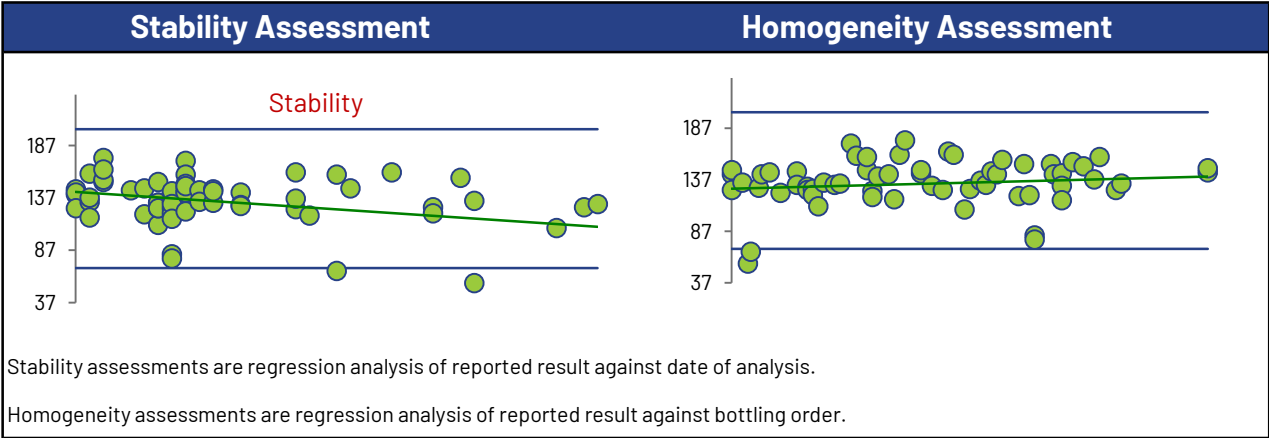


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

m,p-Xylene



m,p-Xylene



Methyl ethyl ketone

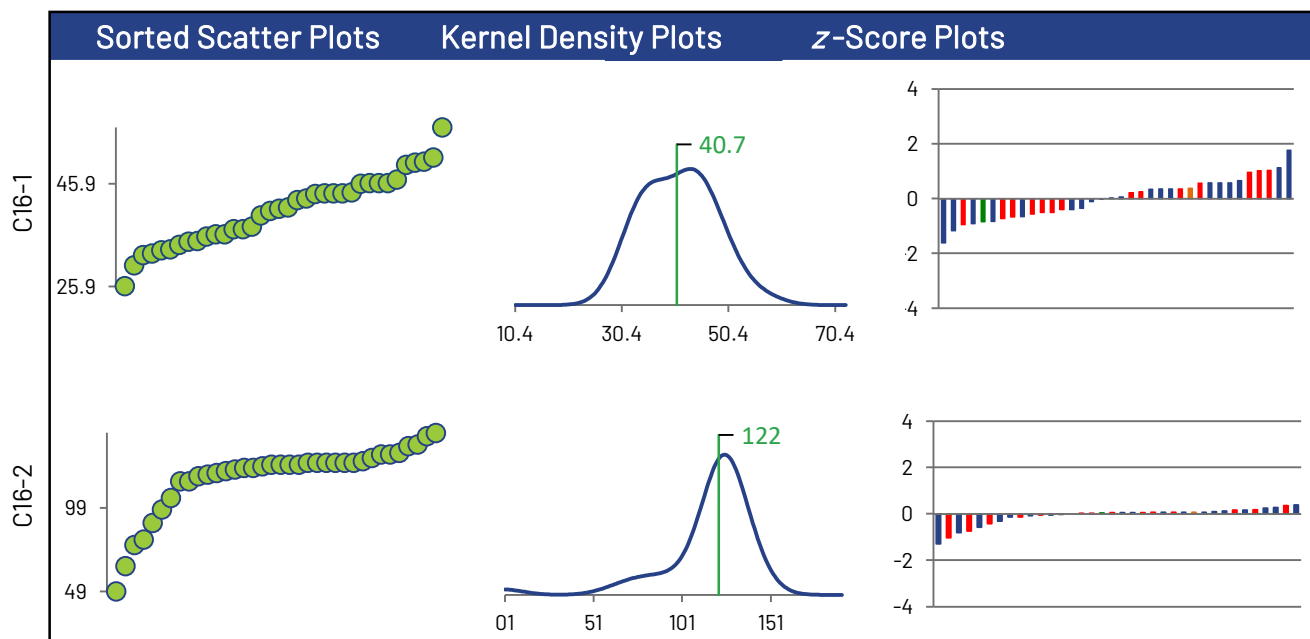
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	36	36	27	36
Median µg/L	41.2	125	10.0	325
Robust Mean µg/L	40.7	122	9.67	315
Uncertainty of the Assigned Value µg/L	1.50	2.50	0.395	9.40
Robust Standard Deviation µg/L	7.21	12.0	1.64	45.1
Regression Standard Deviation µg/L	9.15	27.4	2.18	71.0
Stability Flag		Stability		
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	9.15	56.5	2.18	71.0
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	2
$2 < z < 3$	0	0	0	2
Failure Rate %*	0.0			

Methods Used

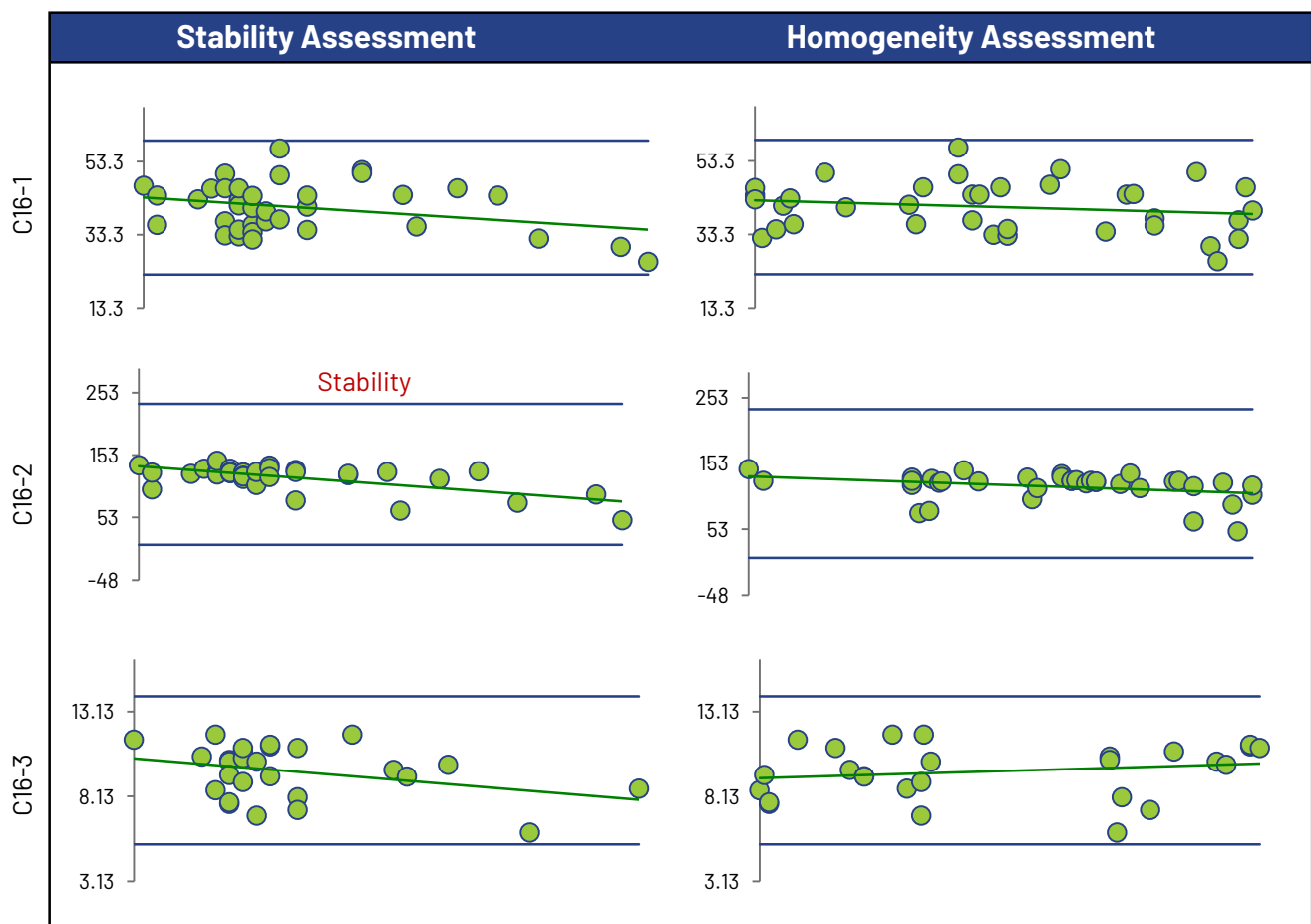
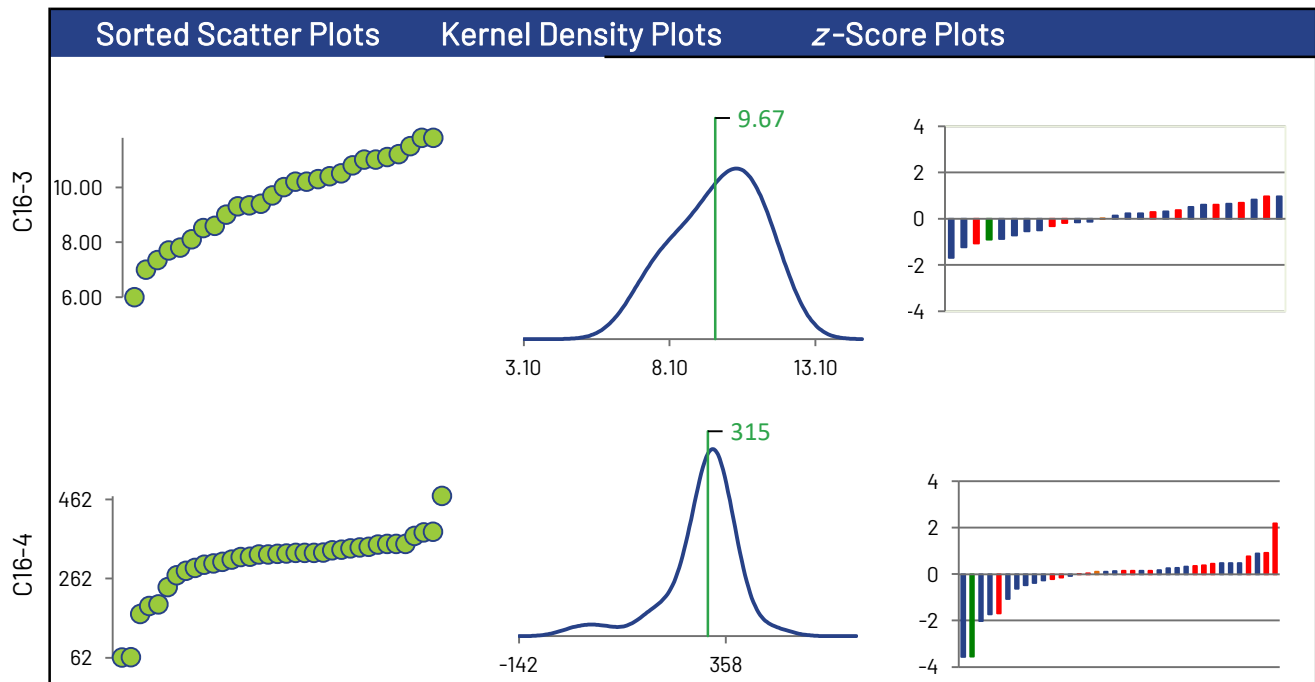
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	20	20	17	20
GC/MS - HEADSPACE (Red)	14	14	8	14
GC/FID - PURGE AND TRAP (Green)	1	1	1	1
GC/MS (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

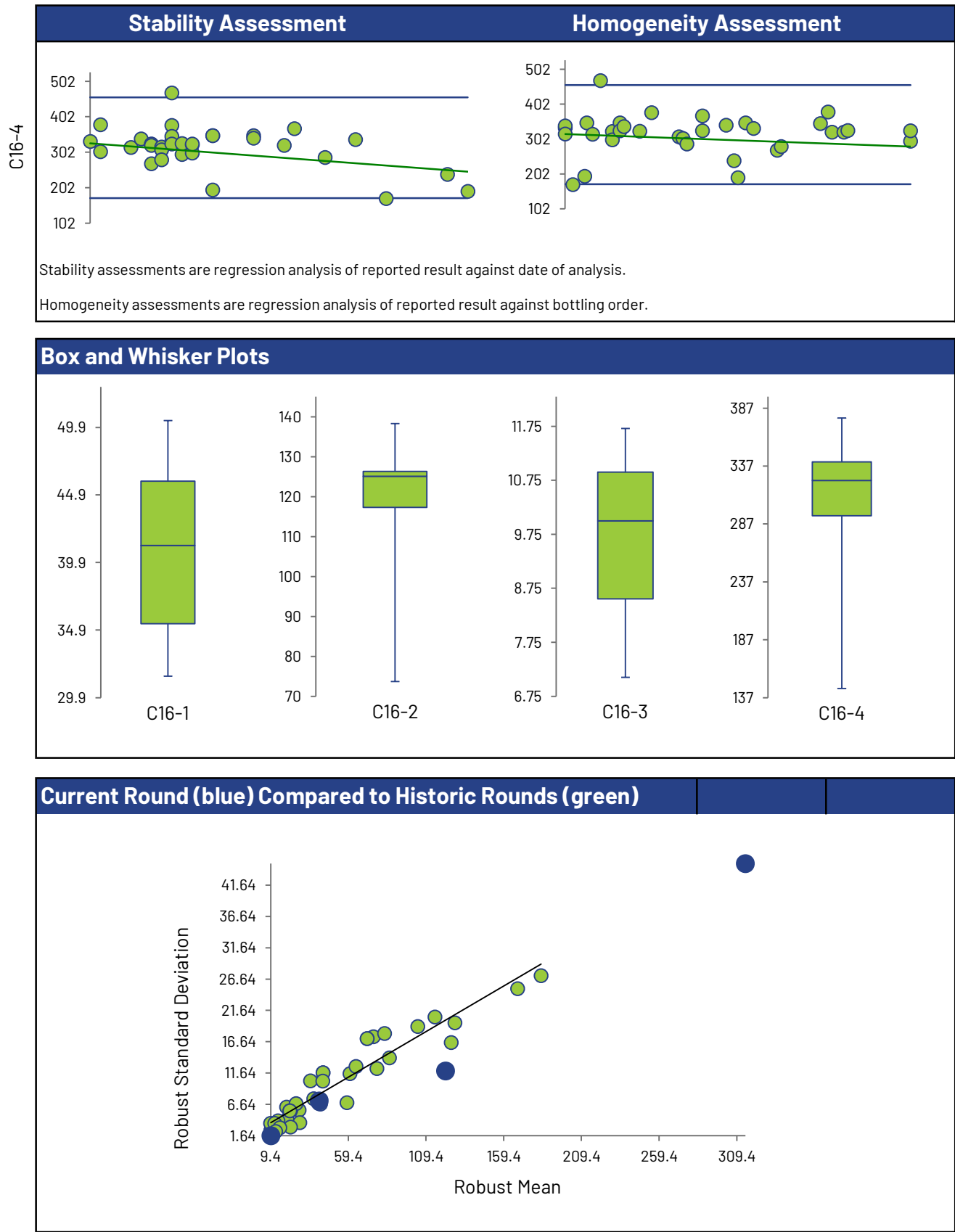


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Methyl ethyl ketone



Methyl ethyl ketone



Methyl isobutyl ketone (MIBK)

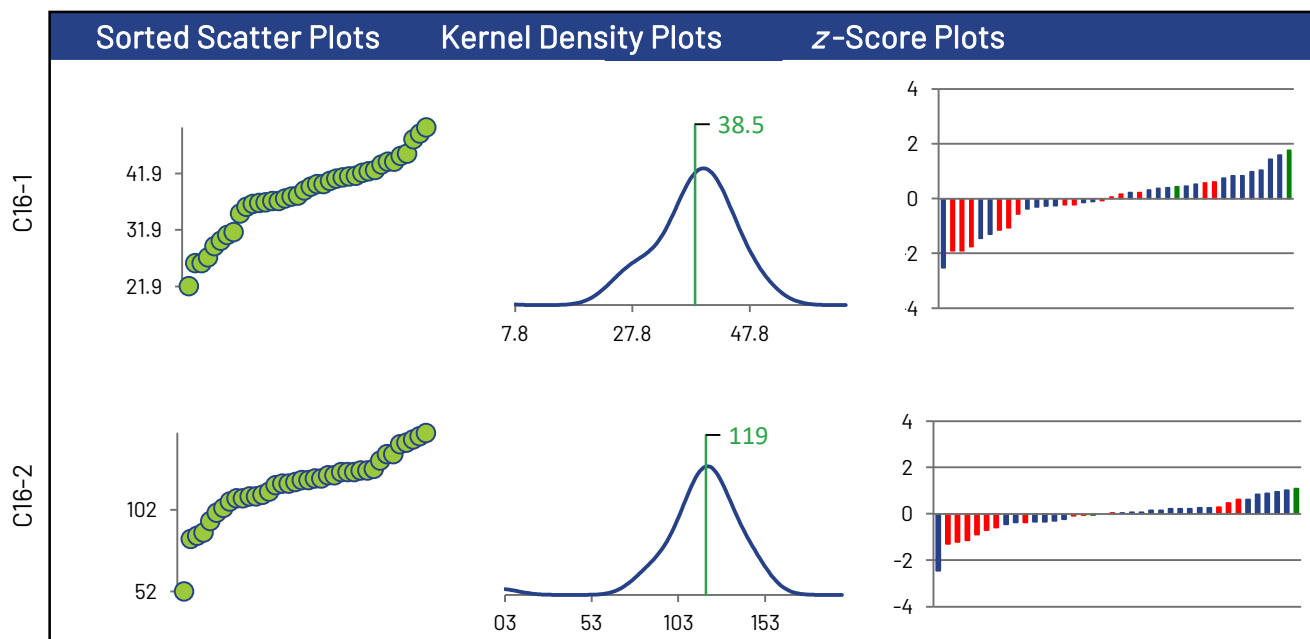
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	38	38	23	38
Median µg/L	39.3	120	6.71	348
Robust Mean µg/L	38.5	119	6.75	348
Uncertainty of the Assigned Value µg/L	1.33	3.55	0.289	9.23
Robust Standard Deviation µg/L	6.55	17.5	1.11	45.5
Regression Standard Deviation µg/L	5.77	17.8	1.01	52.2
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) µg/L	6.55	27.4	1.11	52.2
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	1	1
$2 < z < 3$	1	1	1	3
Failure Rate %*	2.6			

Methods Used

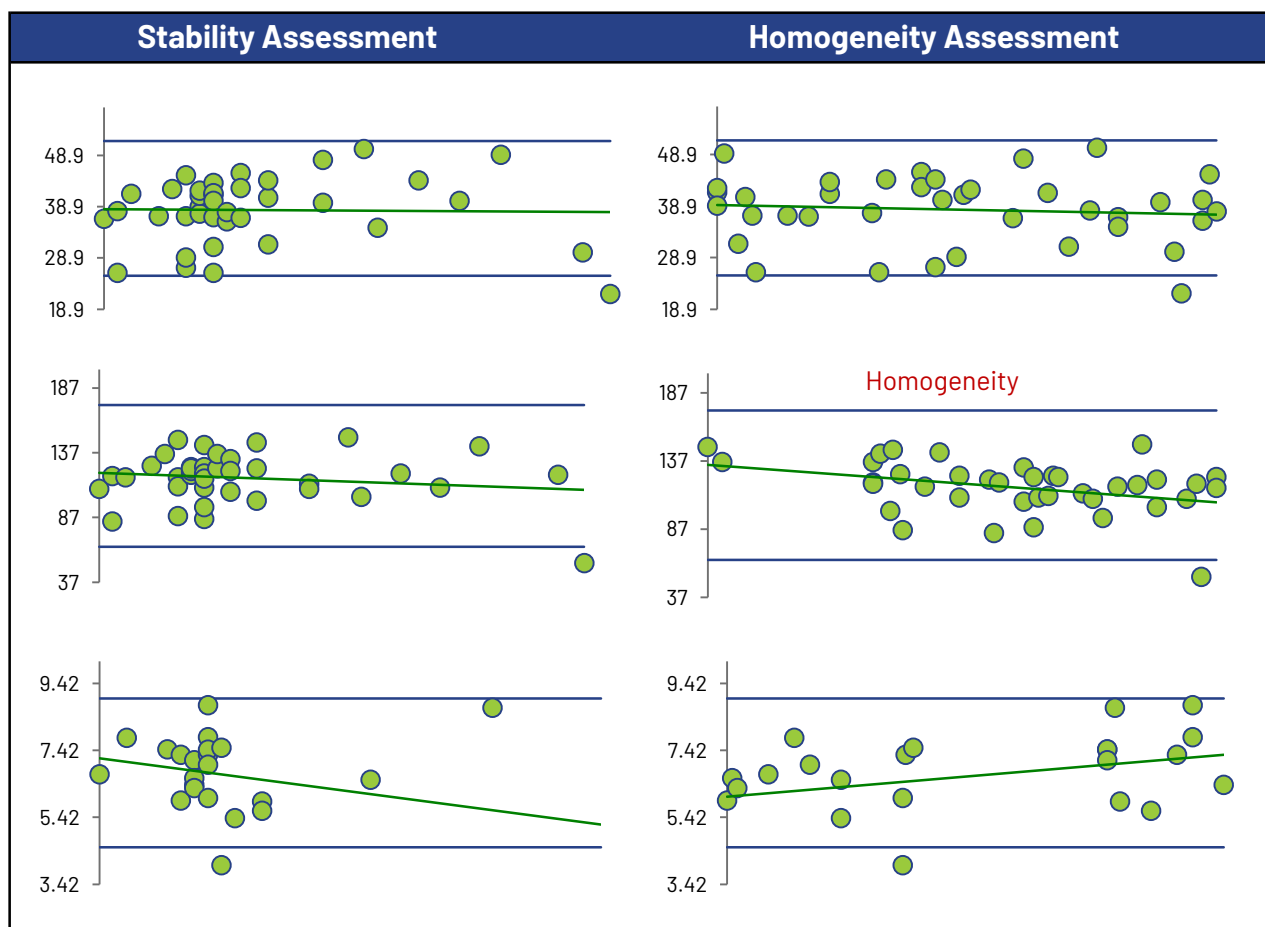
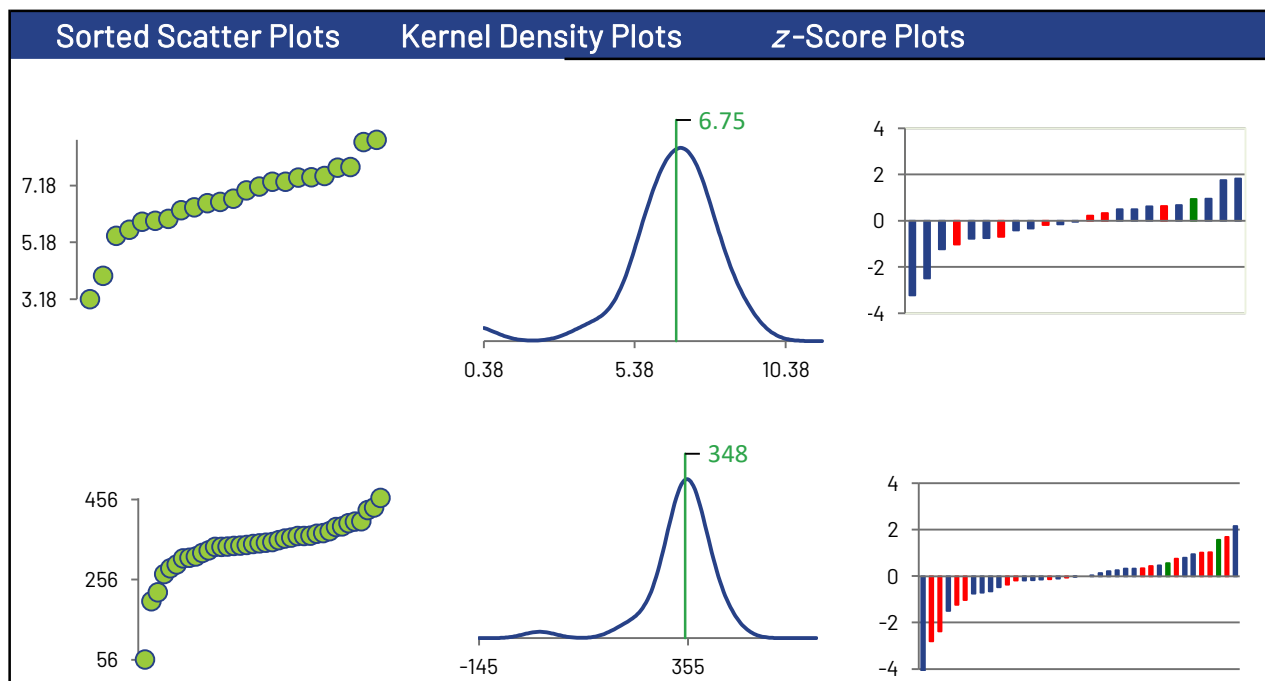
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	22	22	16	22
GC/MS - HEADSPACE (Red)	14	14	6	14
GC/MS (Green)	2	2	1	2

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

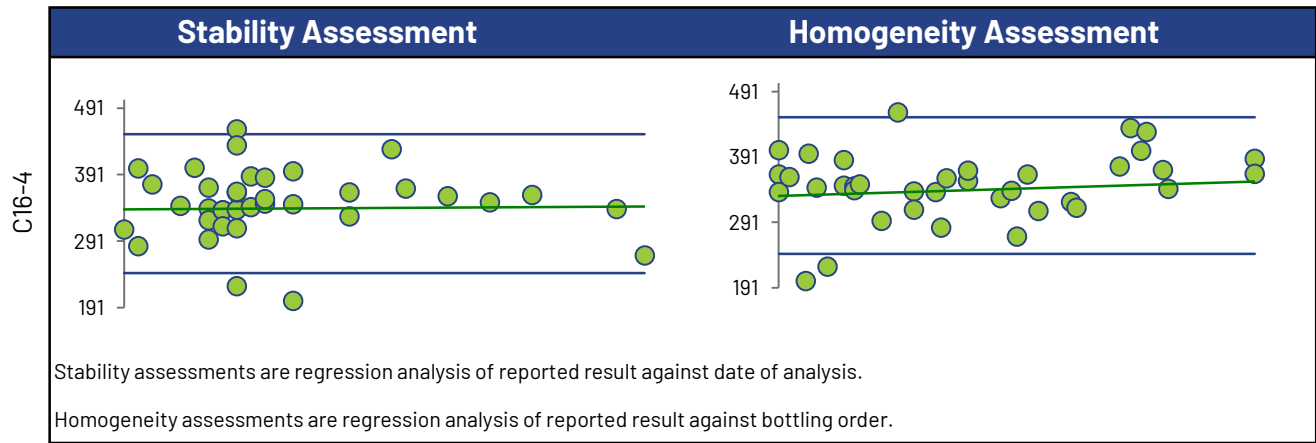


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

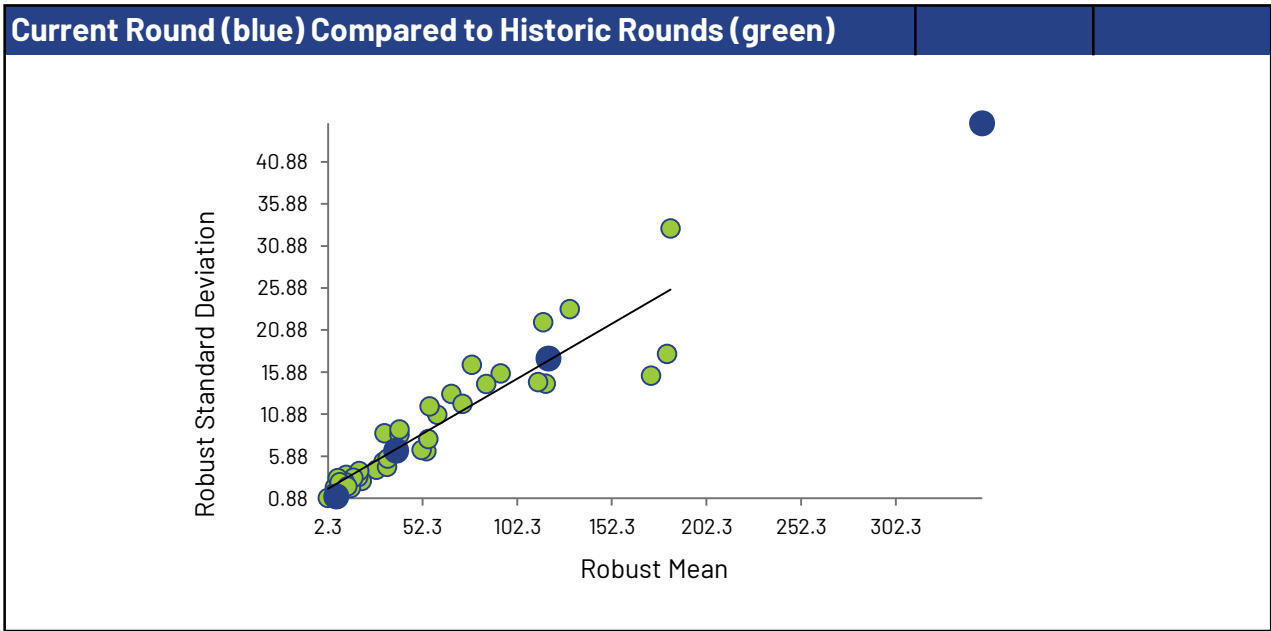
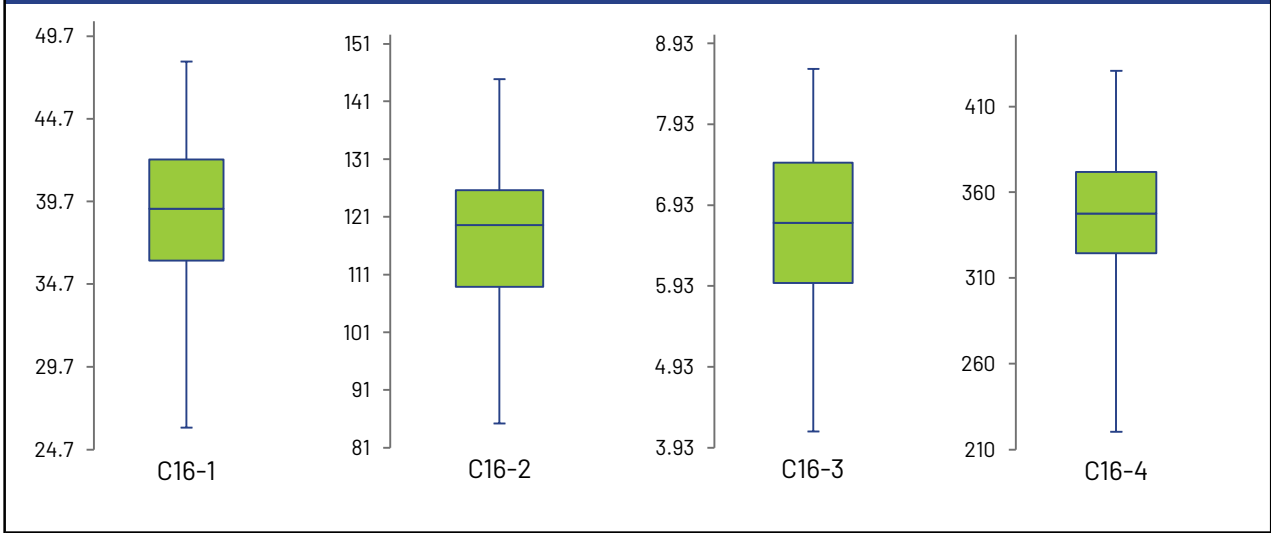
Methyl isobutyl ketone (MIBK)



Methyl isobutyl ketone (MIBK)



Box and Whisker Plots



Methyl t-butyl ether

Summary Statistics

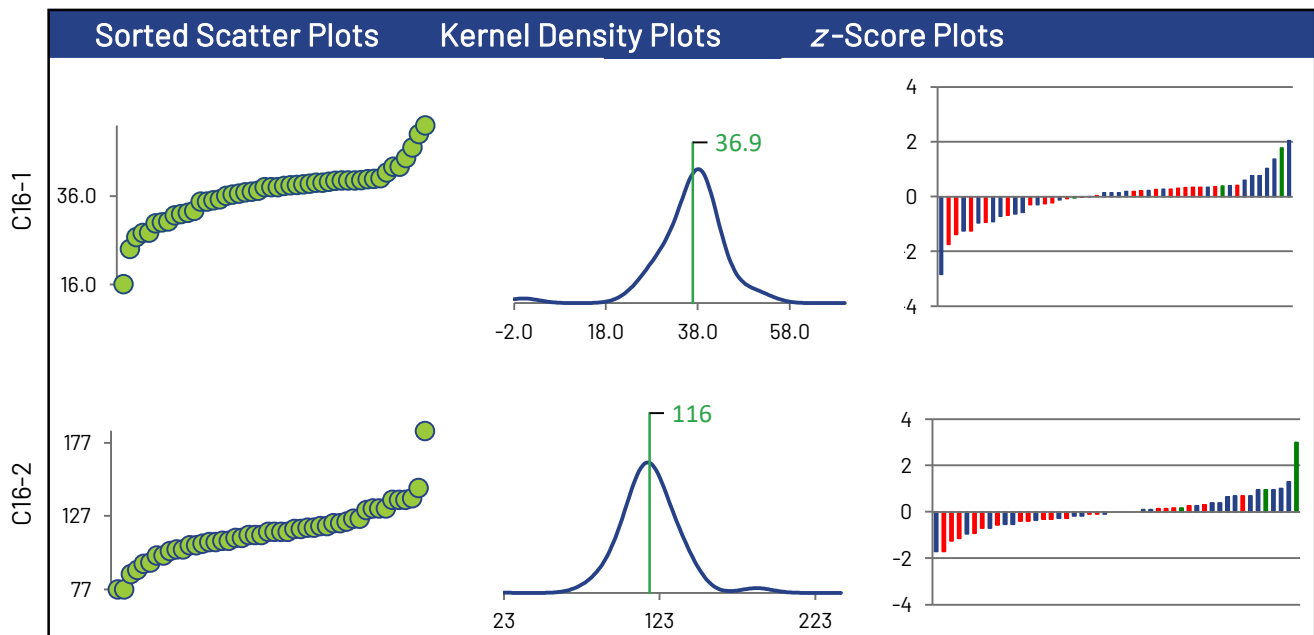
Excluded

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	48	48	48	3
Median µg/L	38.0	116	7.15	0.485
Robust Mean µg/L	36.9	116	7.02	0.751
Uncertainty of the Assigned Value µg/L	0.927	2.83	0.198	0.649
Robust Standard Deviation µg/L	5.14	15.7	1.10	0.899
Regression Standard Deviation µg/L	7.37	23.1	1.40	0.126
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.37	23.1	1.40	0.899
Flagged Outliers	0	0	0	1
$ z > 3.0$	0	0	0	1
$2 < z < 3$	2	1	2	0
Failure Rate %*	4.2			

Methods Used

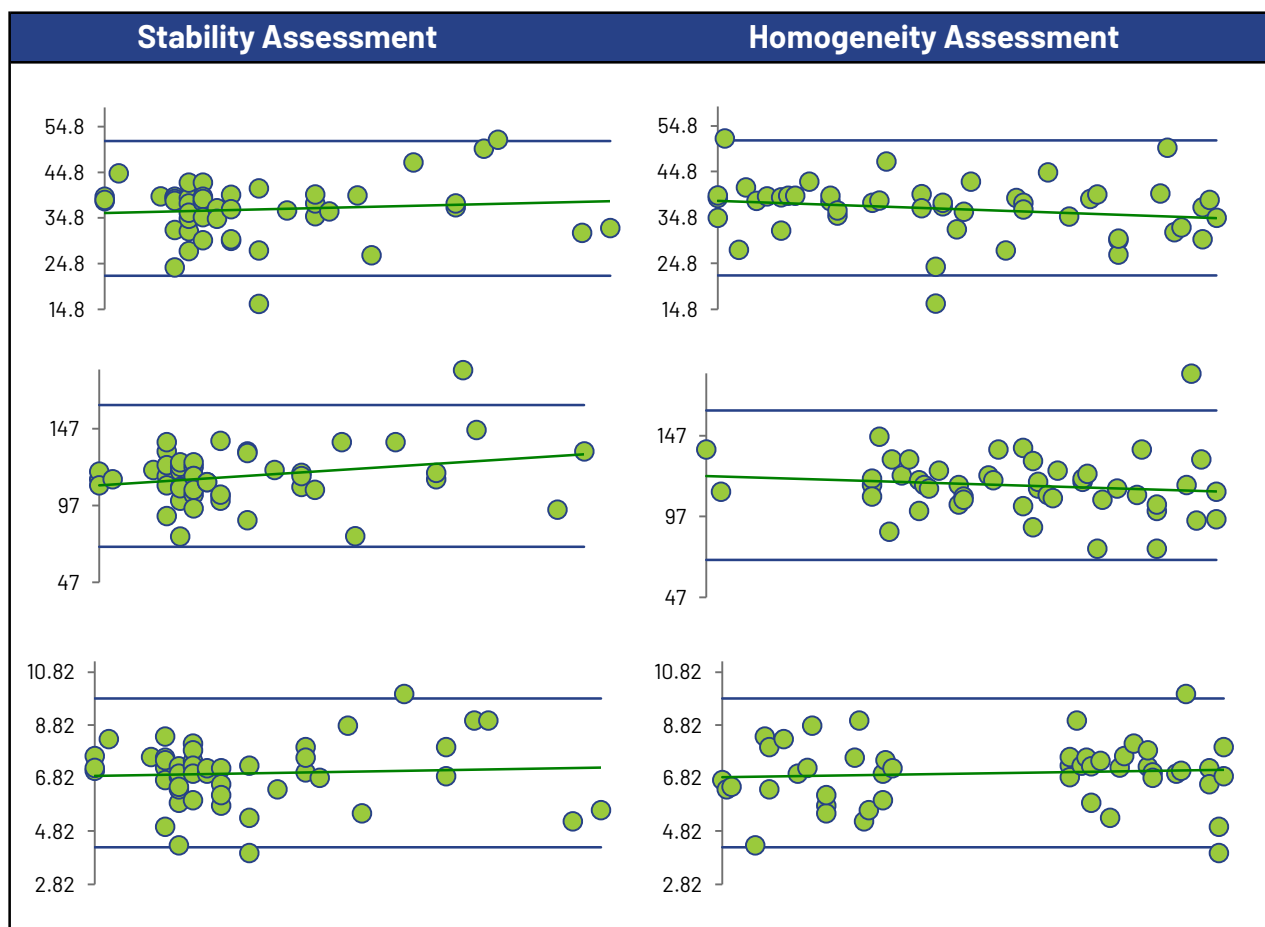
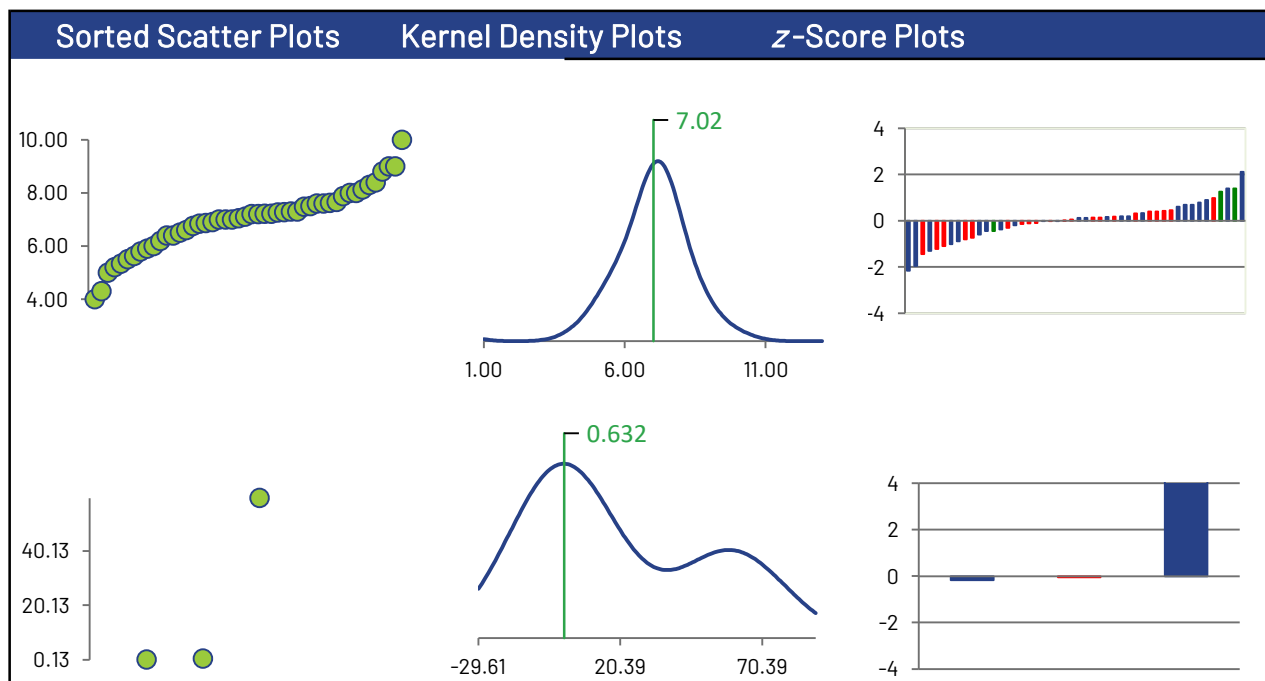
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	24	24	24	2
GC/MS - HEADSPACE (Red)	21	21	21	1
GC/MS (Green)	3	3	3	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

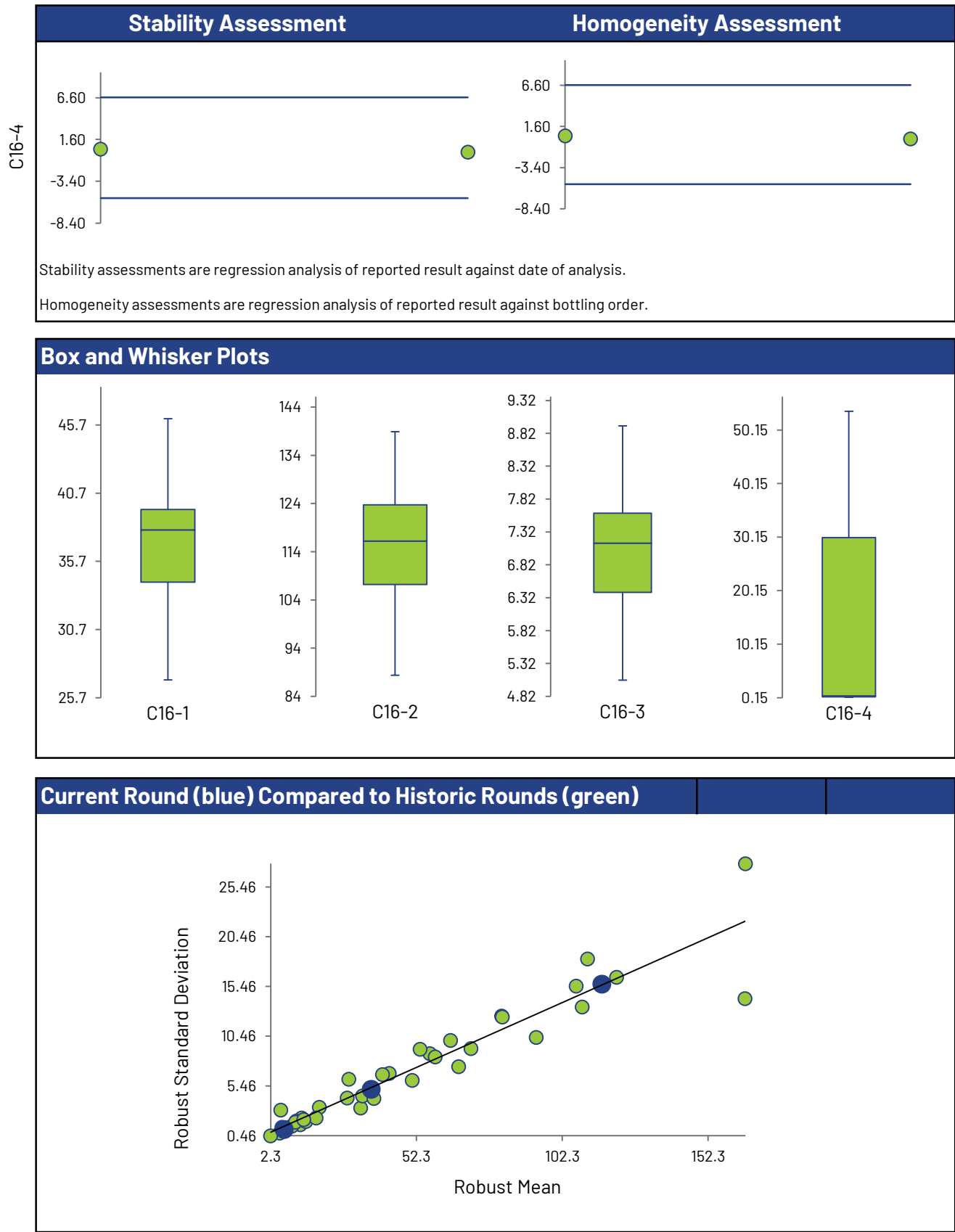


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Methyl t-butyl ether



Methyl t-butyl ether



o-xylene

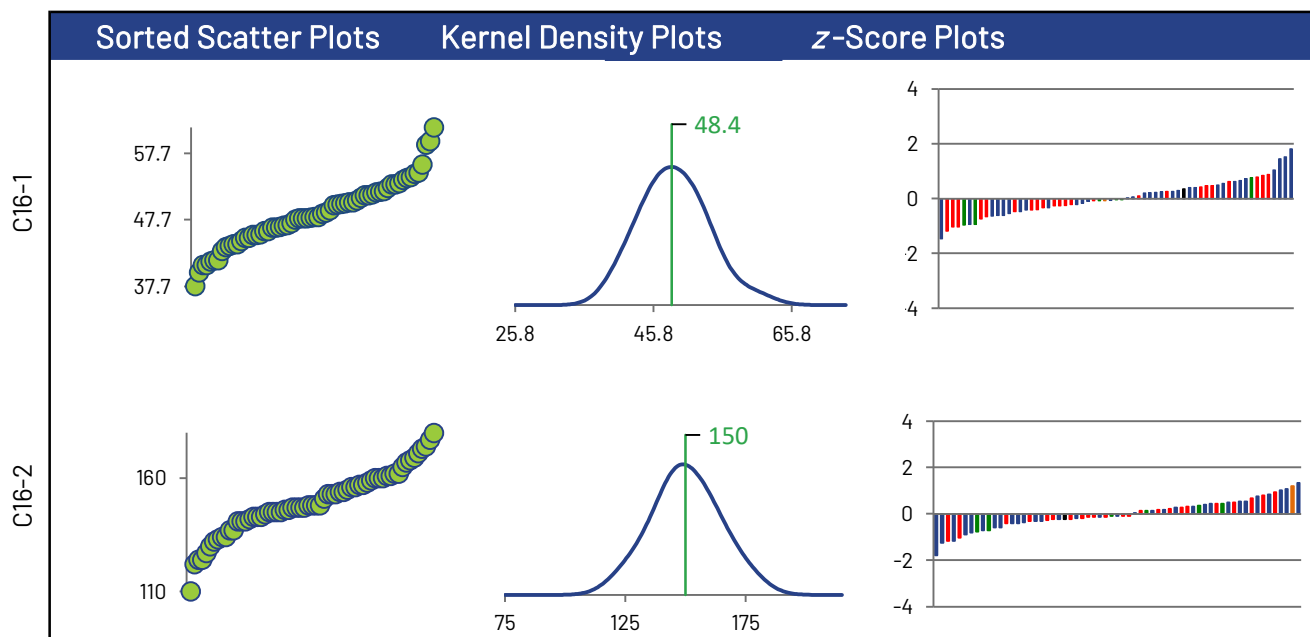
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	63	63	63	62
Median µg/L	48.1	148	9.11	71.6
Robust Mean µg/L	48.4	150	9.12	72.0
Uncertainty of the Assigned Value µg/L	0.756	2.19	0.203	1.01
Robust Standard Deviation µg/L	4.80	13.9	1.29	6.39
Regression Standard Deviation µg/L	7.26	22.5	1.37	10.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.26	22.5	1.37	10.8
Flagged Outliers	0	0	0	1
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	2	0
Failure Rate %*	0.0			

Methods Used

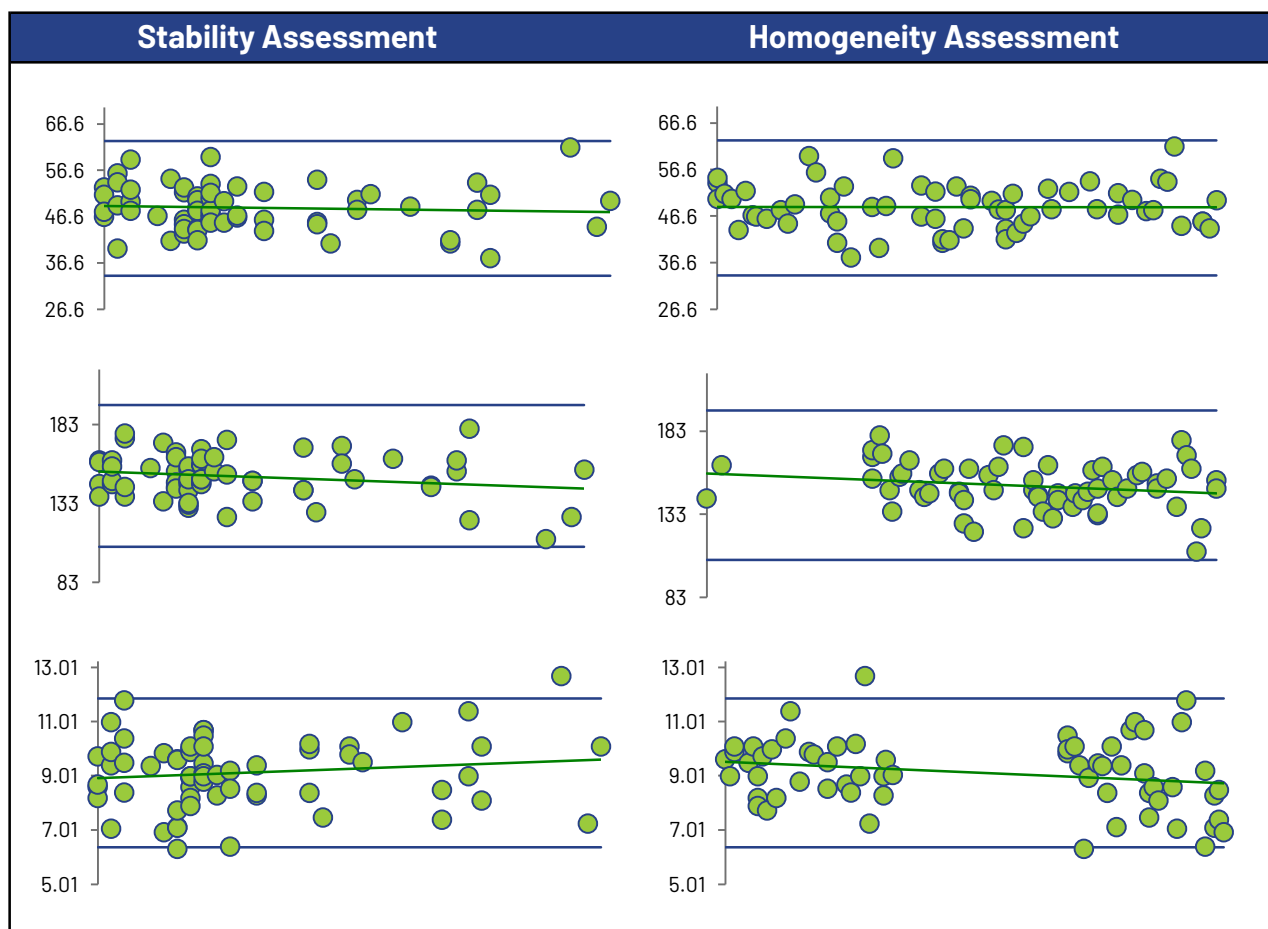
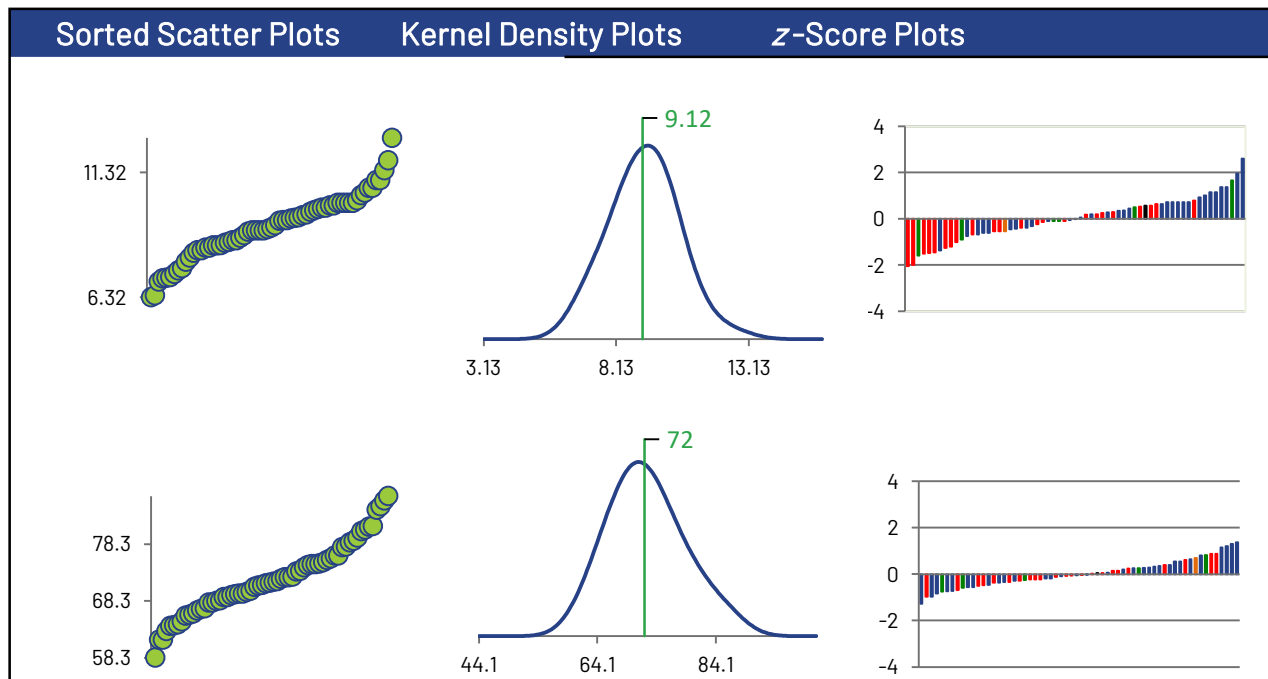
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	32	32	32	32
GC/MS - HEADSPACE (Red)	23	23	23	23
GC/MS (Green)	6	6	6	5
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

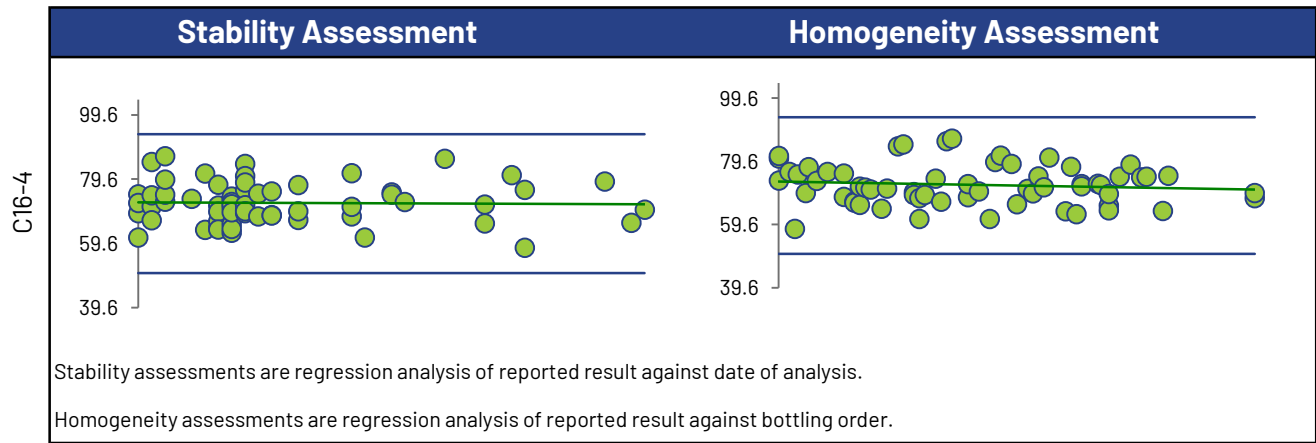


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

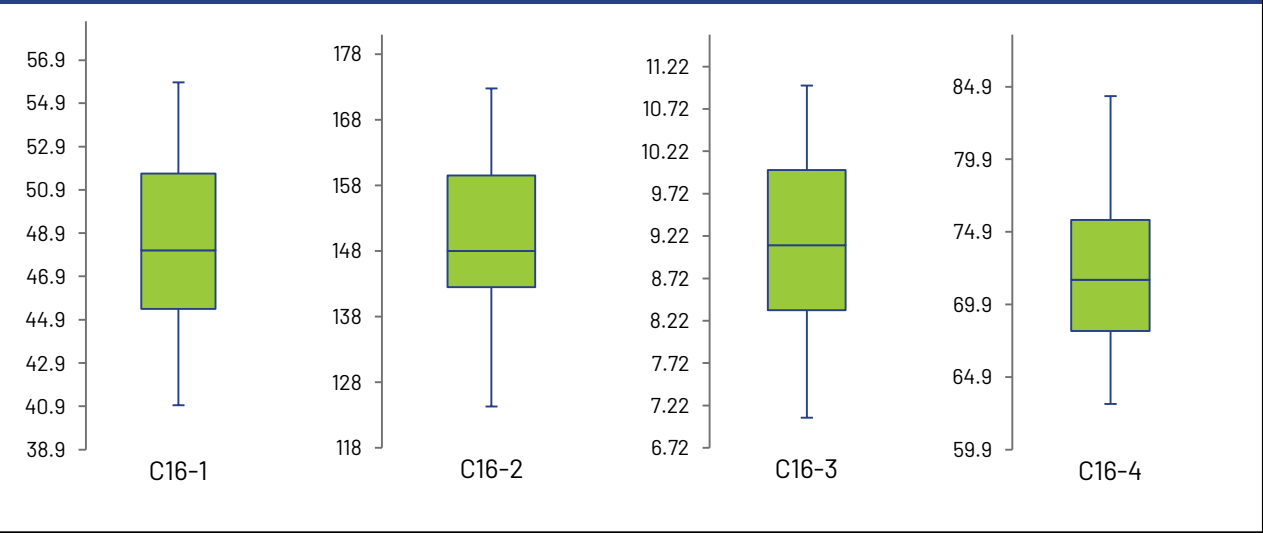
o-xylene



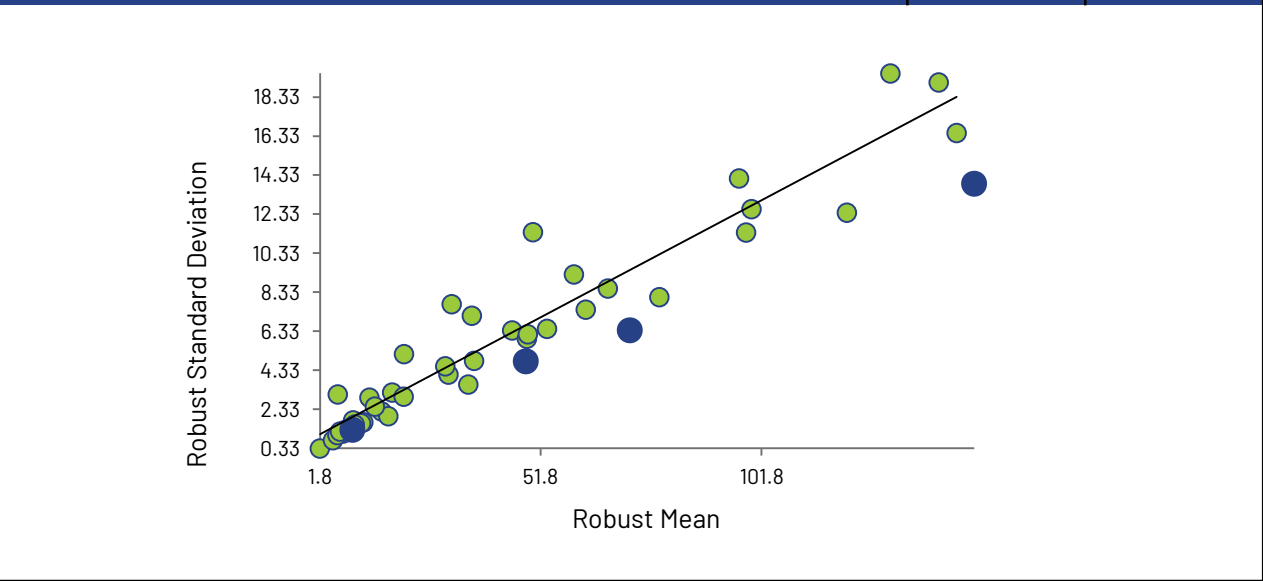
o-xylene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Styrene

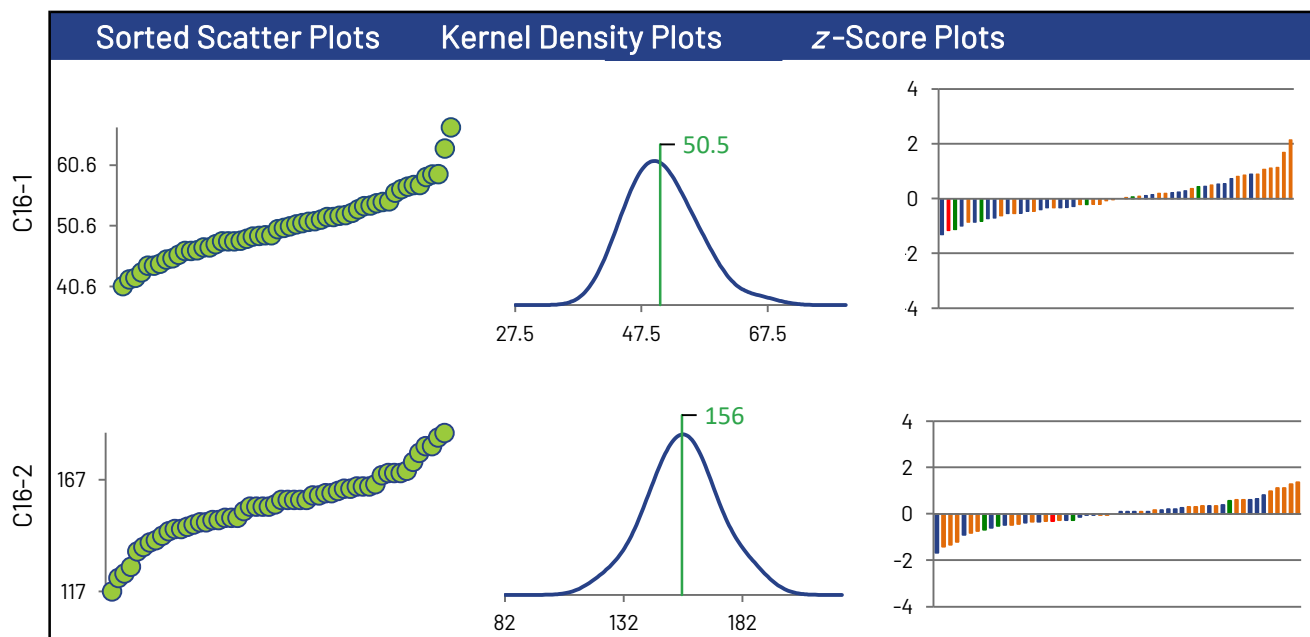
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	54	54	54	53
Median µg/L	50.4	157	9.33	69.9
Robust Mean µg/L	50.5	156	9.17	71.1
Uncertainty of the Assigned Value µg/L	0.920	2.43	0.257	1.20
Robust Standard Deviation µg/L	5.41	14.3	1.51	6.96
Regression Standard Deviation µg/L	7.57	23.4	1.38	10.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.57	23.4	1.51	10.7
Flagged Outliers	0	0	0	1
$ z > 3.0$	0	0	1	0
$2 < z < 3$	1	0	2	0
Failure Rate %*	0.0			

Methods Used

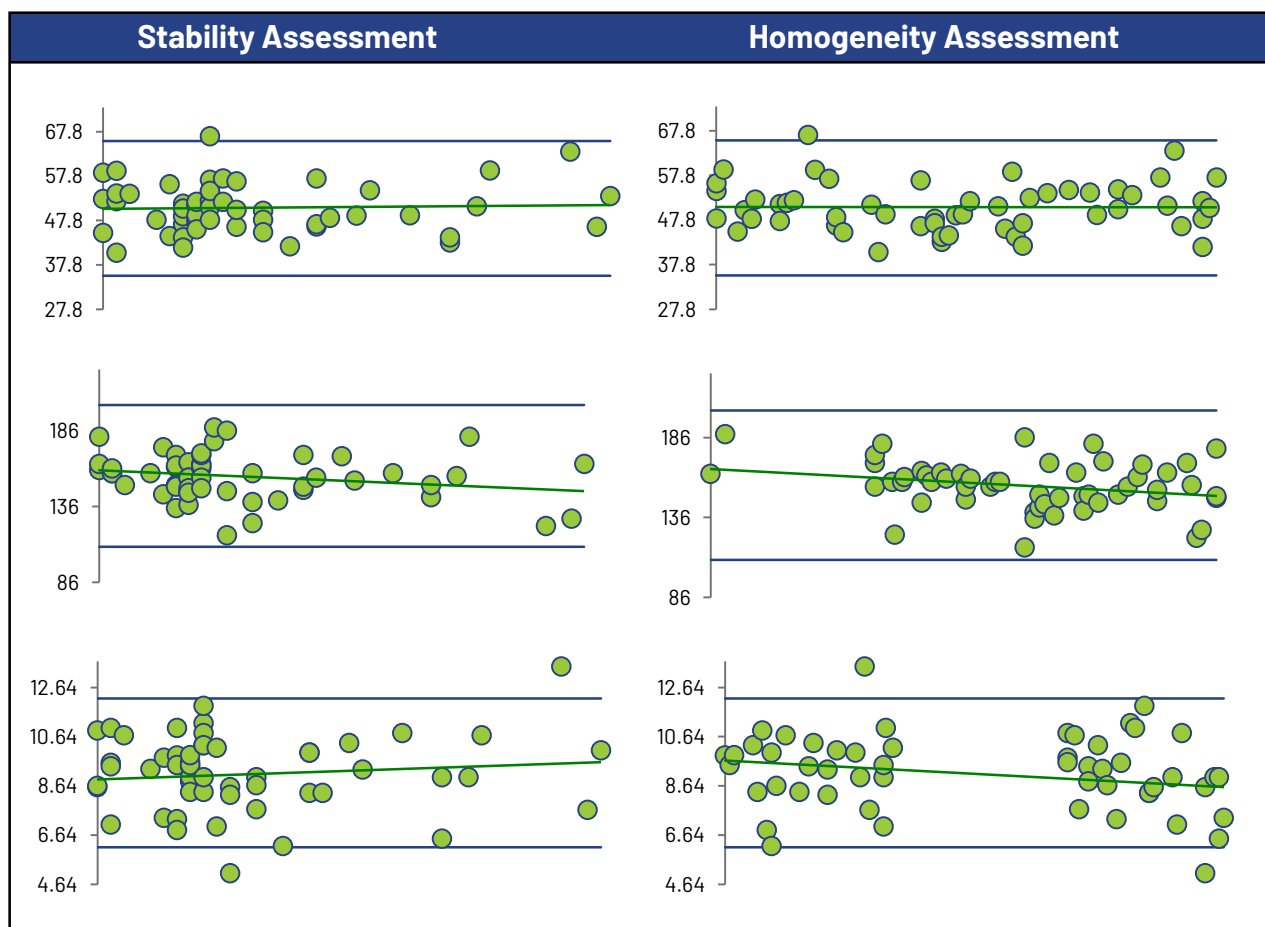
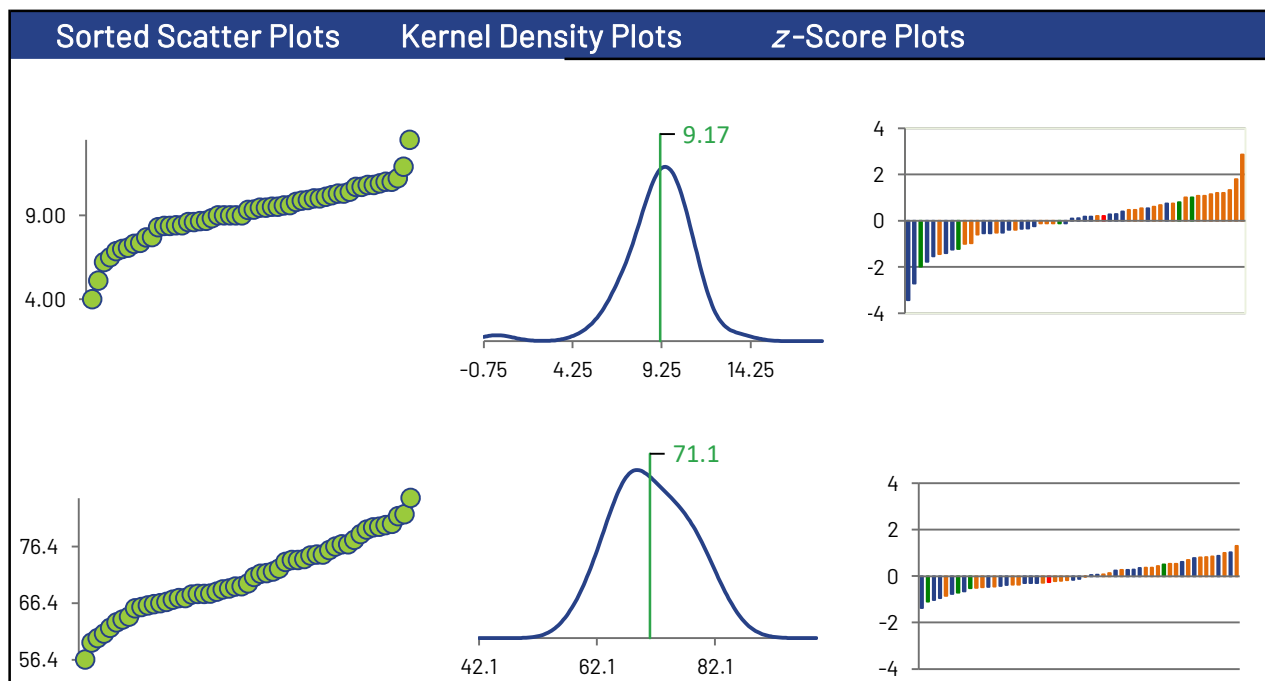
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	23	23	23	23
GC/PID (Red)	1	1	1	1
GC/MS (Green)	5	5	5	4
GC/MS - PURGE AND TRAP (Orange)	25	25	25	25

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

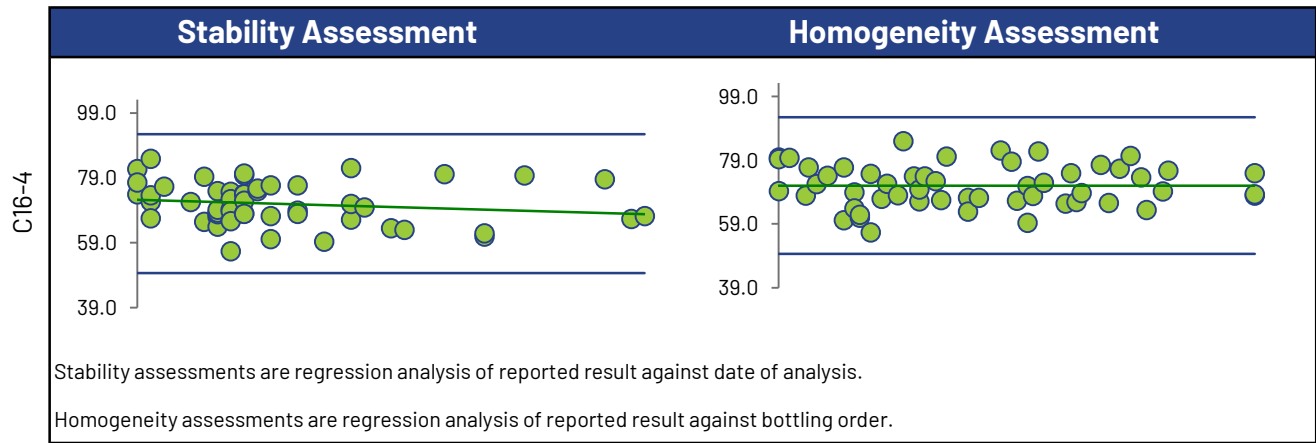


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

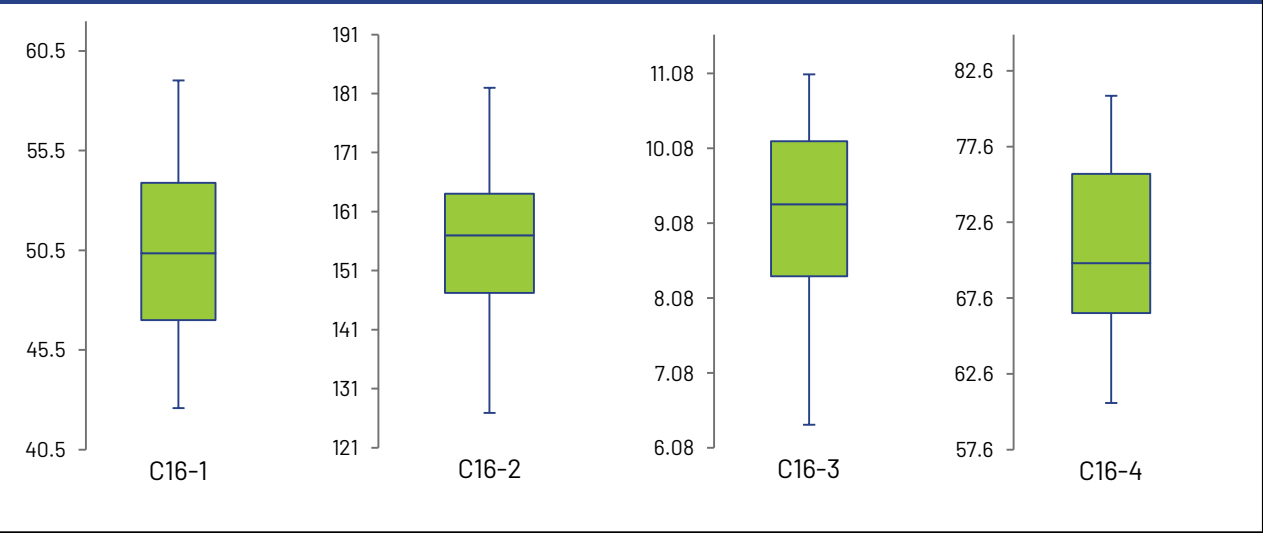
Styrene



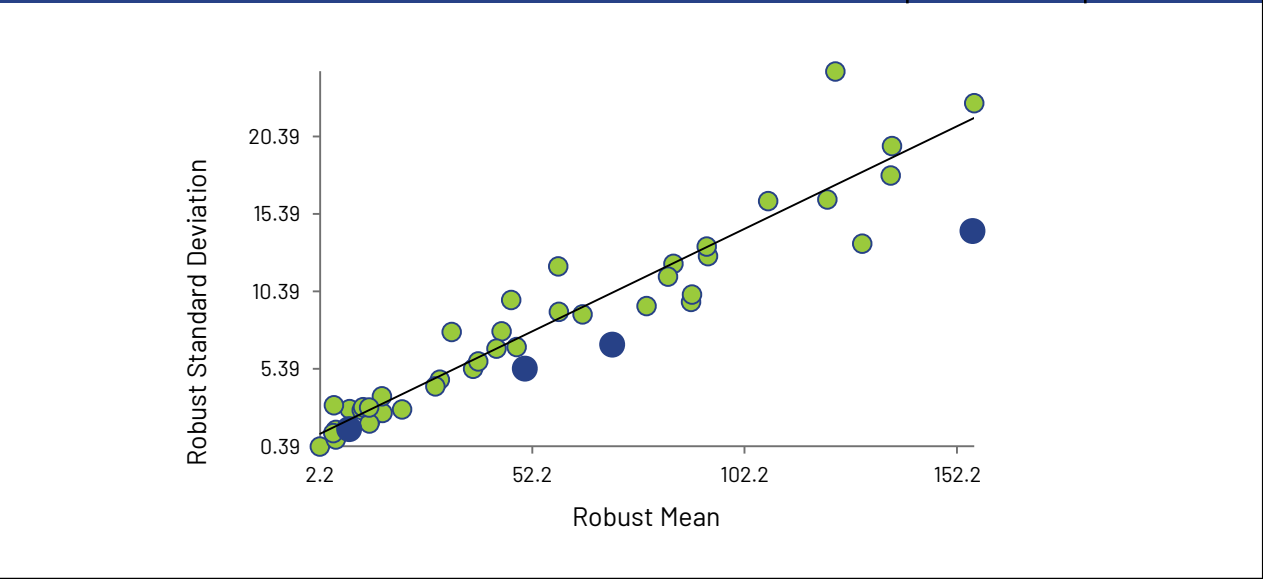
Styrene



Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Tetrachloroethylene

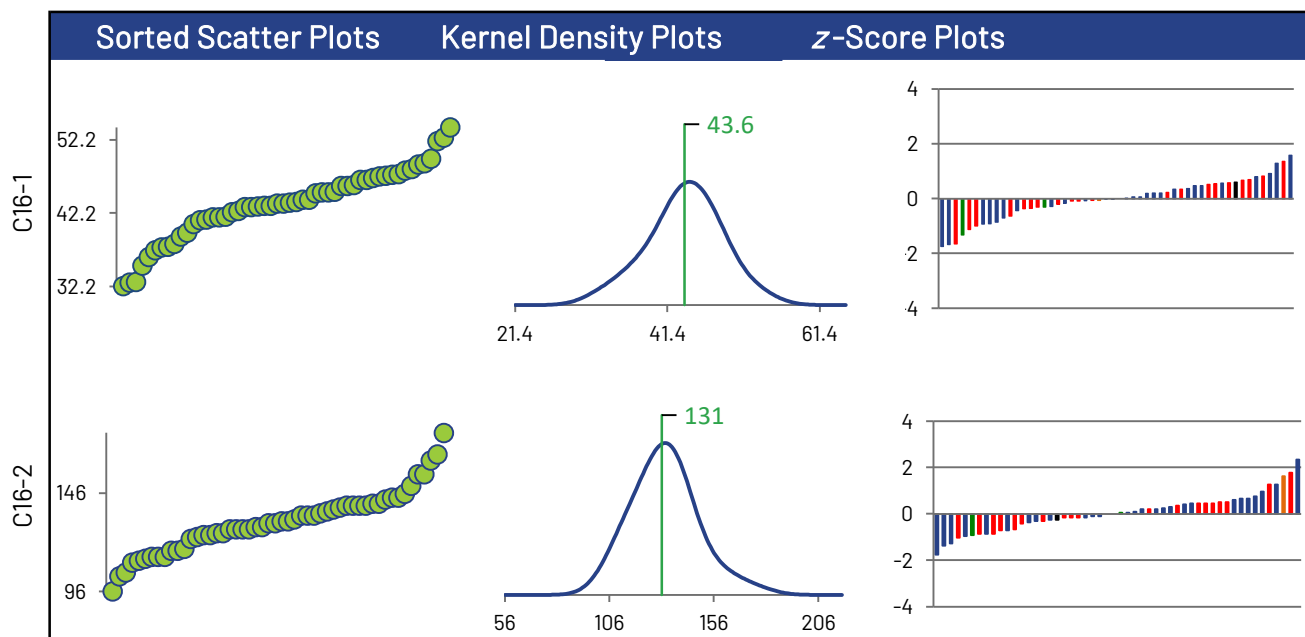
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	52	52	52	52
Median µg/L	43.6	132	8.63	63.8
Robust Mean µg/L	43.6	131	8.55	63.1
Uncertainty of the Assigned Value µg/L	0.804	2.53	0.177	1.03
Robust Standard Deviation µg/L	4.64	14.6	1.02	5.96
Regression Standard Deviation µg/L	6.53	19.7	1.28	9.47
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	6.53	19.7	1.28	9.47
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	1	1	0
Failure Rate %*	0.0			

Methods Used

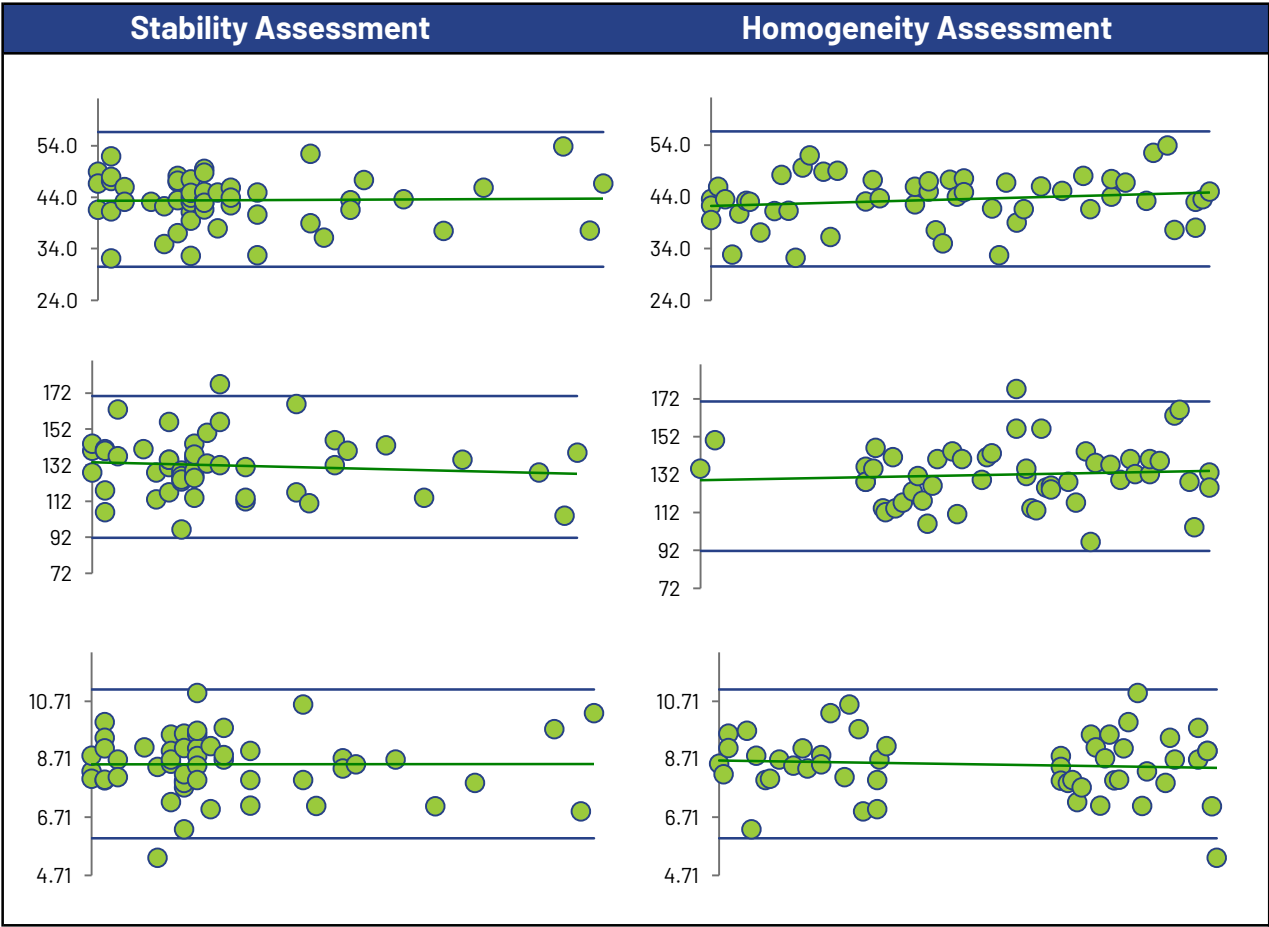
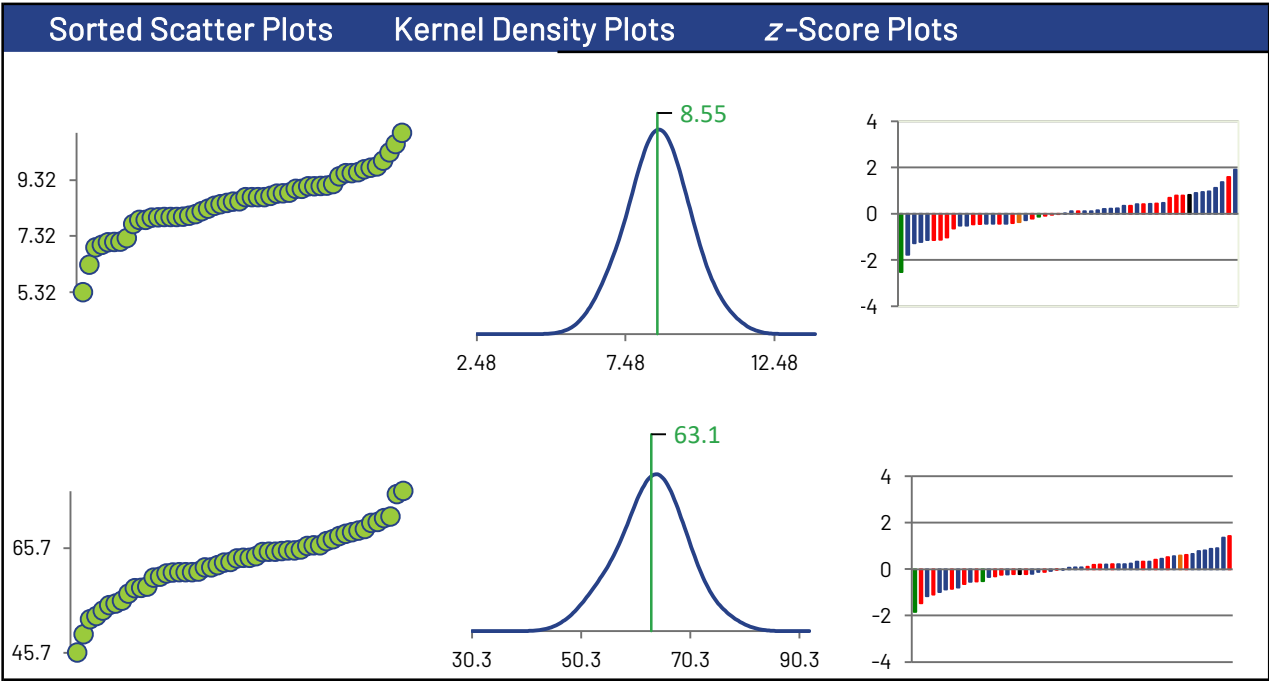
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	28	28	28	28
GC/MS - HEADSPACE (Red)	20	20	20	20
GC/MS (Green)	2	2	2	2
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

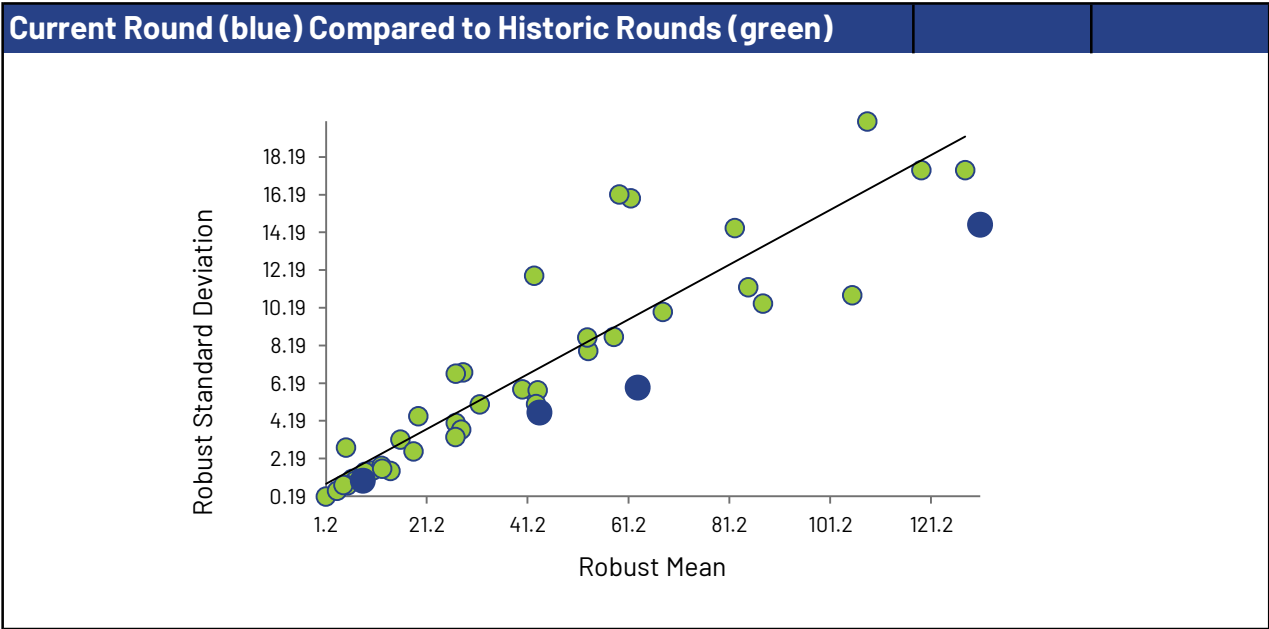
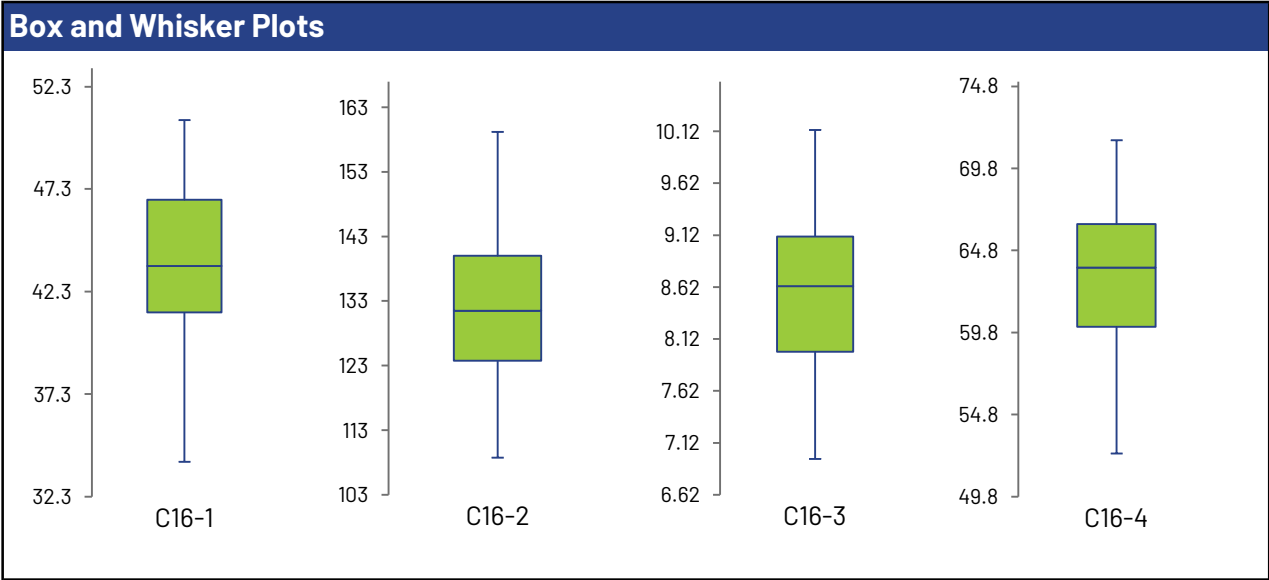
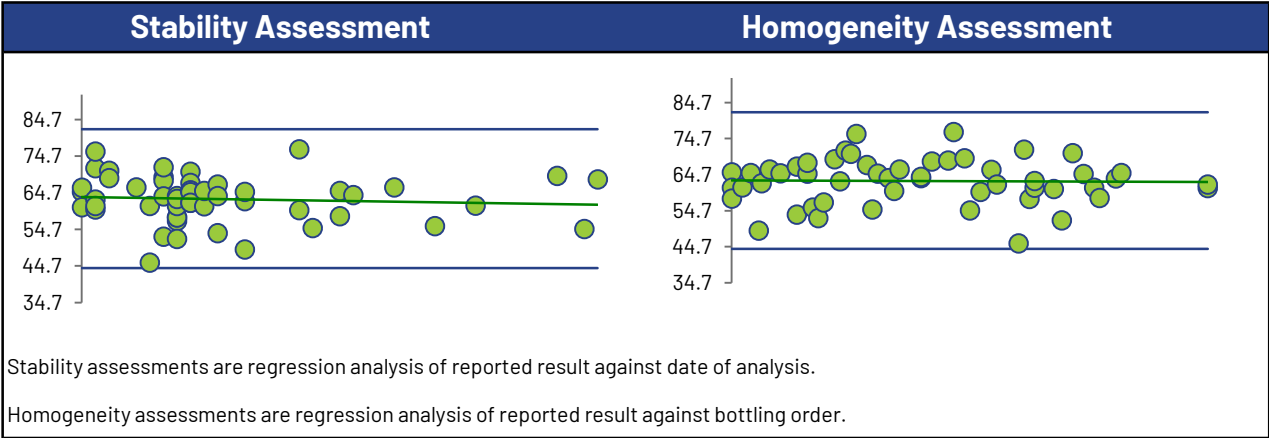


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Tetrachloroethylene



Tetrachloroethylene



Toluene

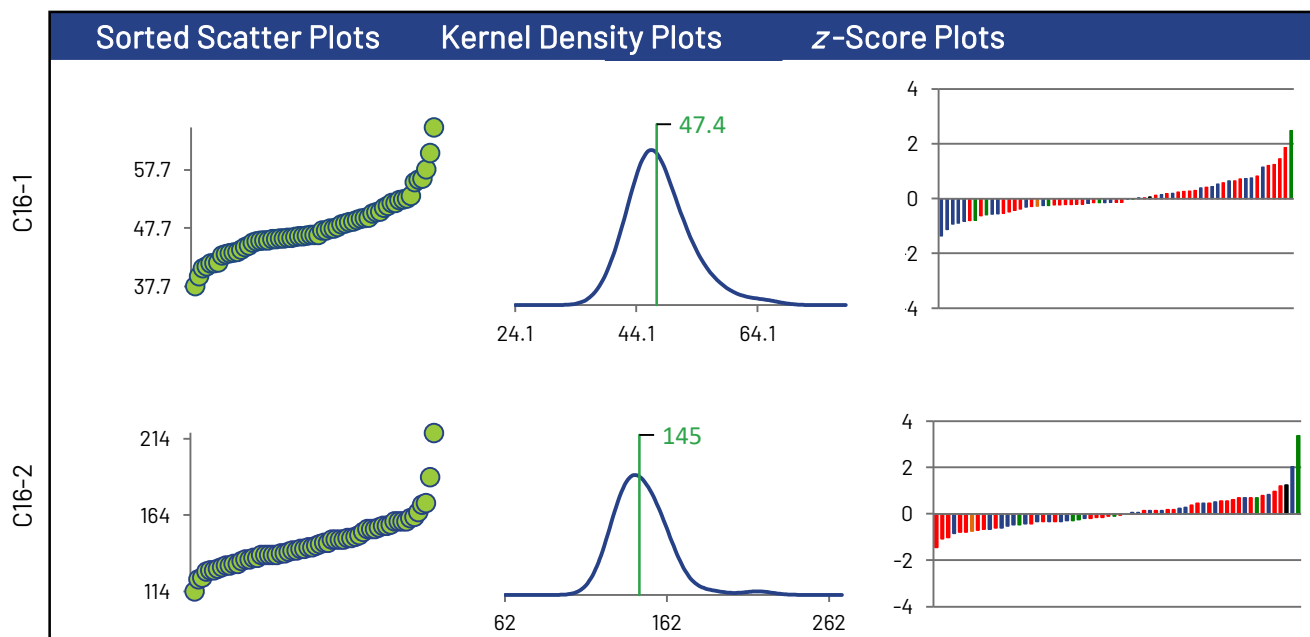
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	63	62	63	63
Median µg/L	46.5	144	9.08	69.0
Robust Mean µg/L	47.4	145	9.17	69.0
Uncertainty of the Assigned Value µg/L	0.682	2.19	0.150	1.03
Robust Standard Deviation µg/L	4.33	13.8	0.952	6.56
Regression Standard Deviation µg/L	7.11	21.7	1.38	10.4
Stability Flag			Stability	
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	7.11	21.7	2.09	10.4
Flagged Outliers	0	1	0	0
$ z > 3.0$	0	1	1	0
$2 < z < 3$	1	1	0	1
Failure Rate %*	3.2			

Methods Used

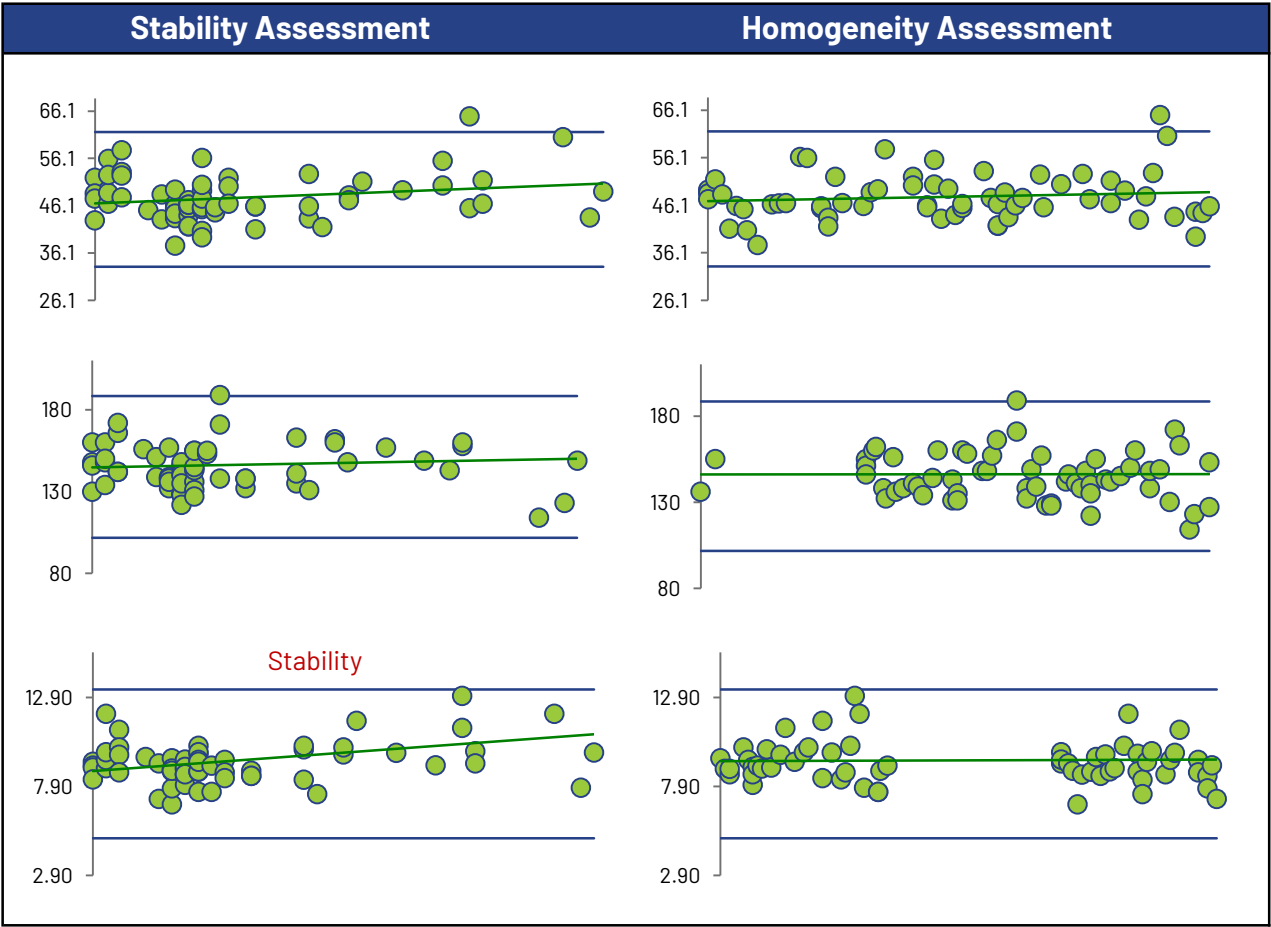
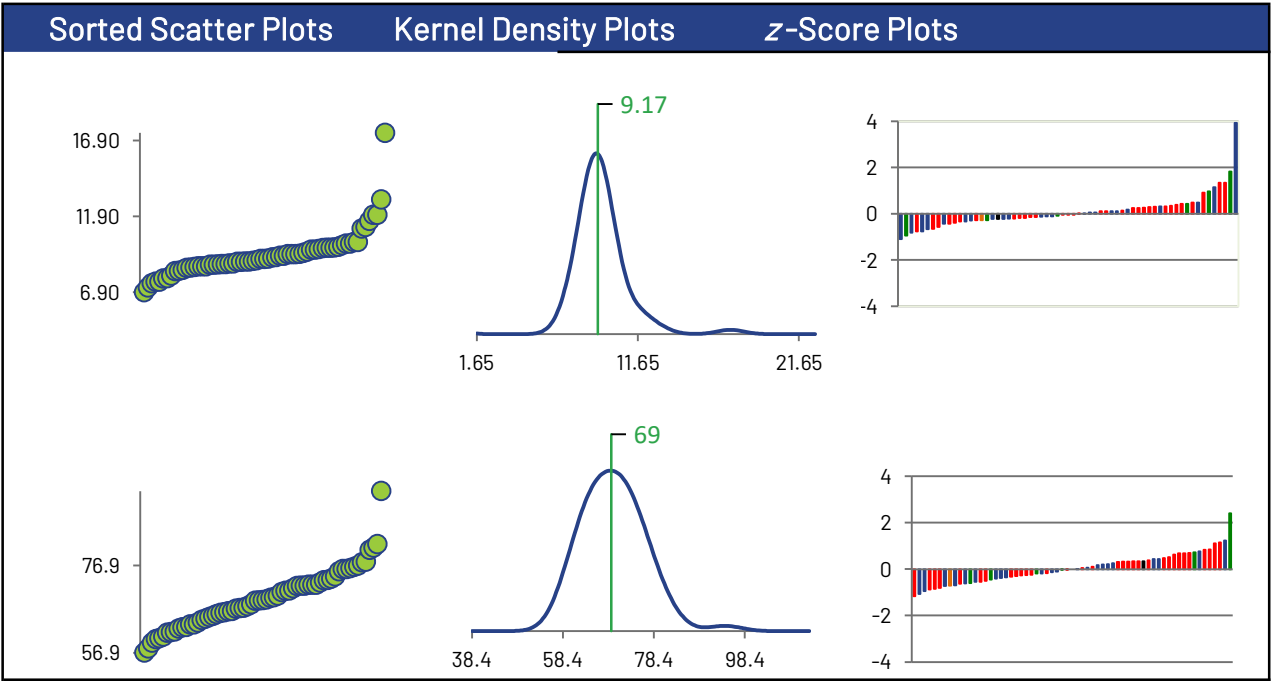
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	23	22	23	23
GC/MS - PURGE AND TRAP (Red)	32	32	32	32
GC/MS (Green)	6	6	6	6
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1
GC/MS/MS - HEADSPACE (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

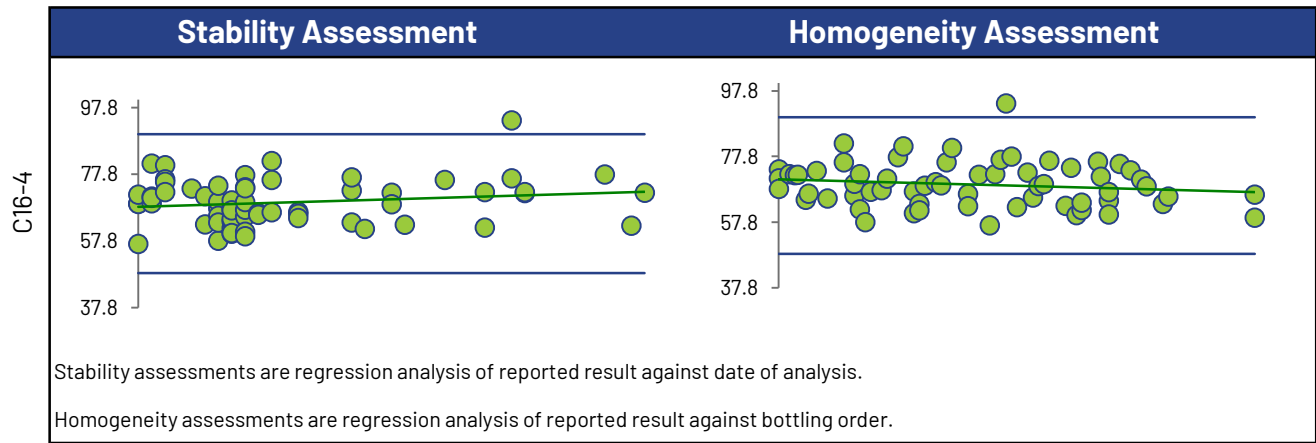


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

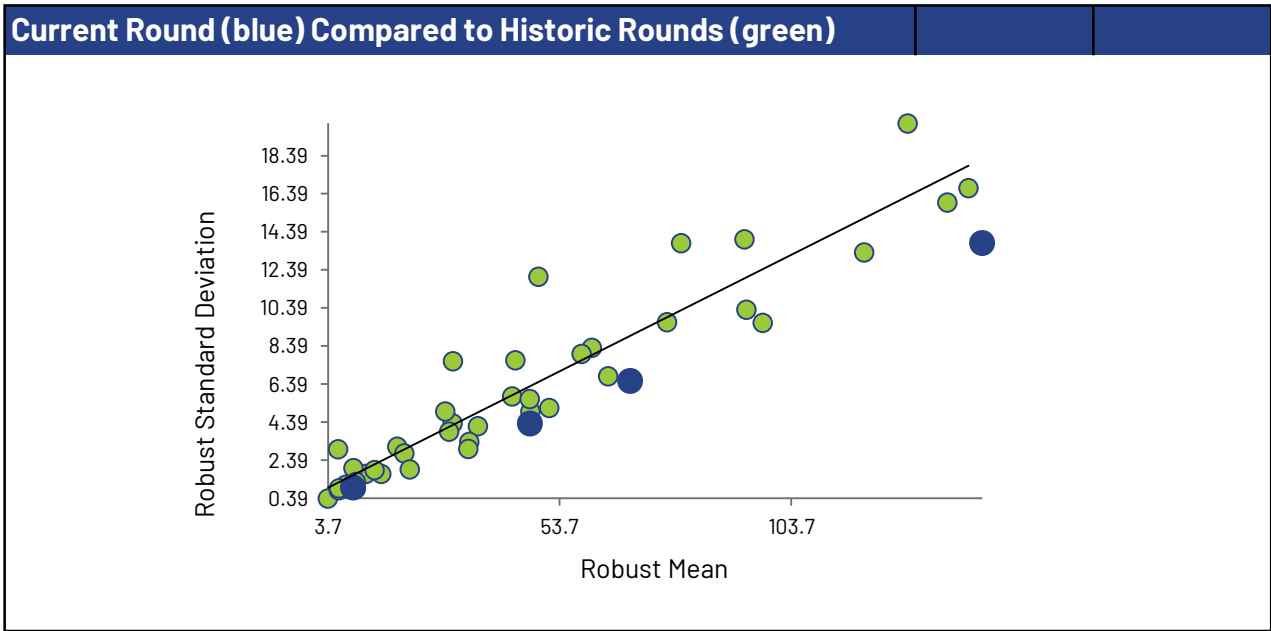
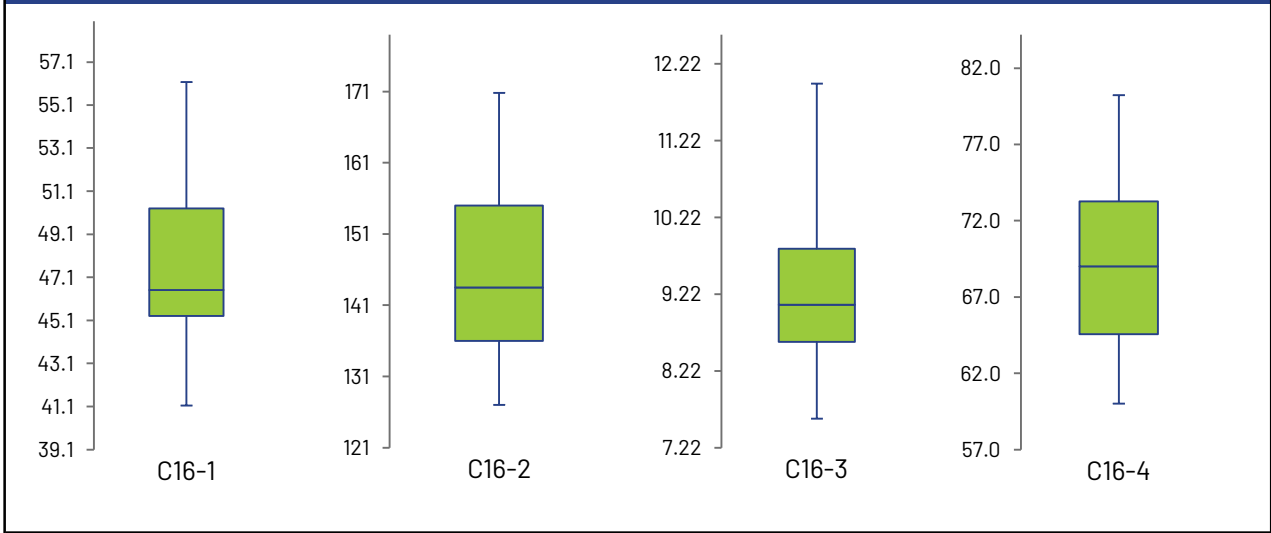
Toluene



Toluene



Box and Whisker Plots



trans-1,2-Dichloroethylene

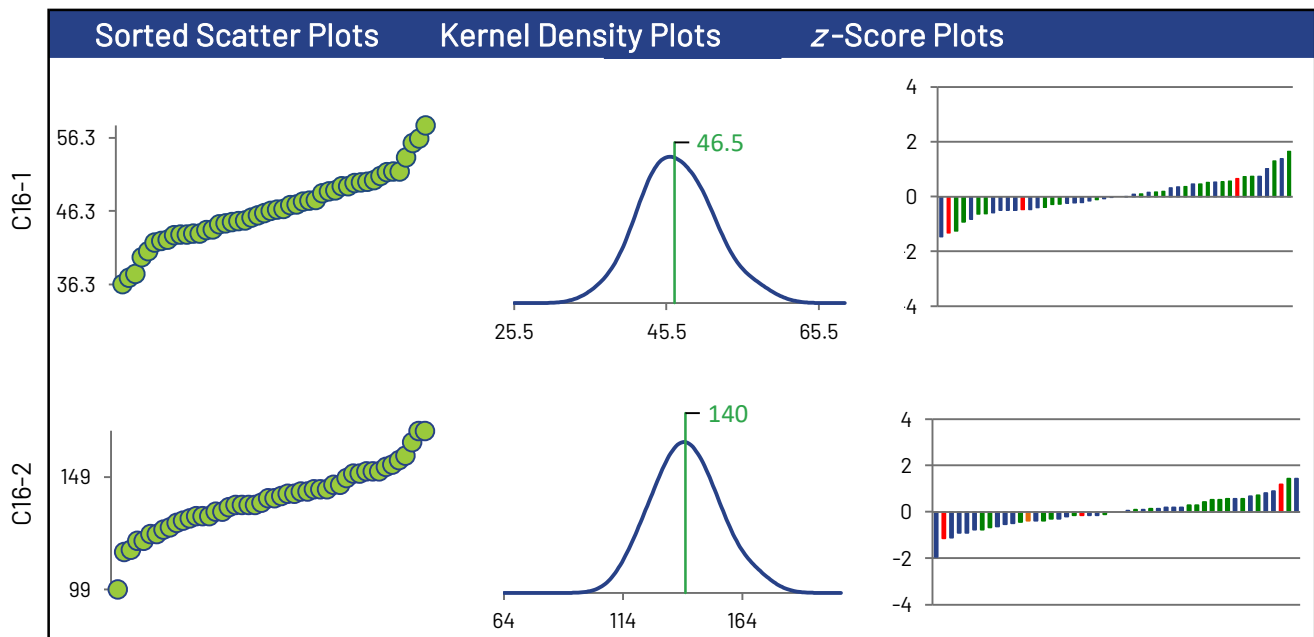
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	48	48	48	48
Median µg/L	46.4	140	9.00	46.6
Robust Mean µg/L	46.5	140	9.05	47.1
Uncertainty of the Assigned Value µg/L	0.814	2.44	0.180	0.870
Robust Standard Deviation µg/L	4.51	13.5	0.995	4.82
Regression Standard Deviation µg/L	6.98	21.0	1.36	7.07
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	6.98	21.0	1.36	7.07
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	1
Failure Rate %*	0.0			

Methods Used

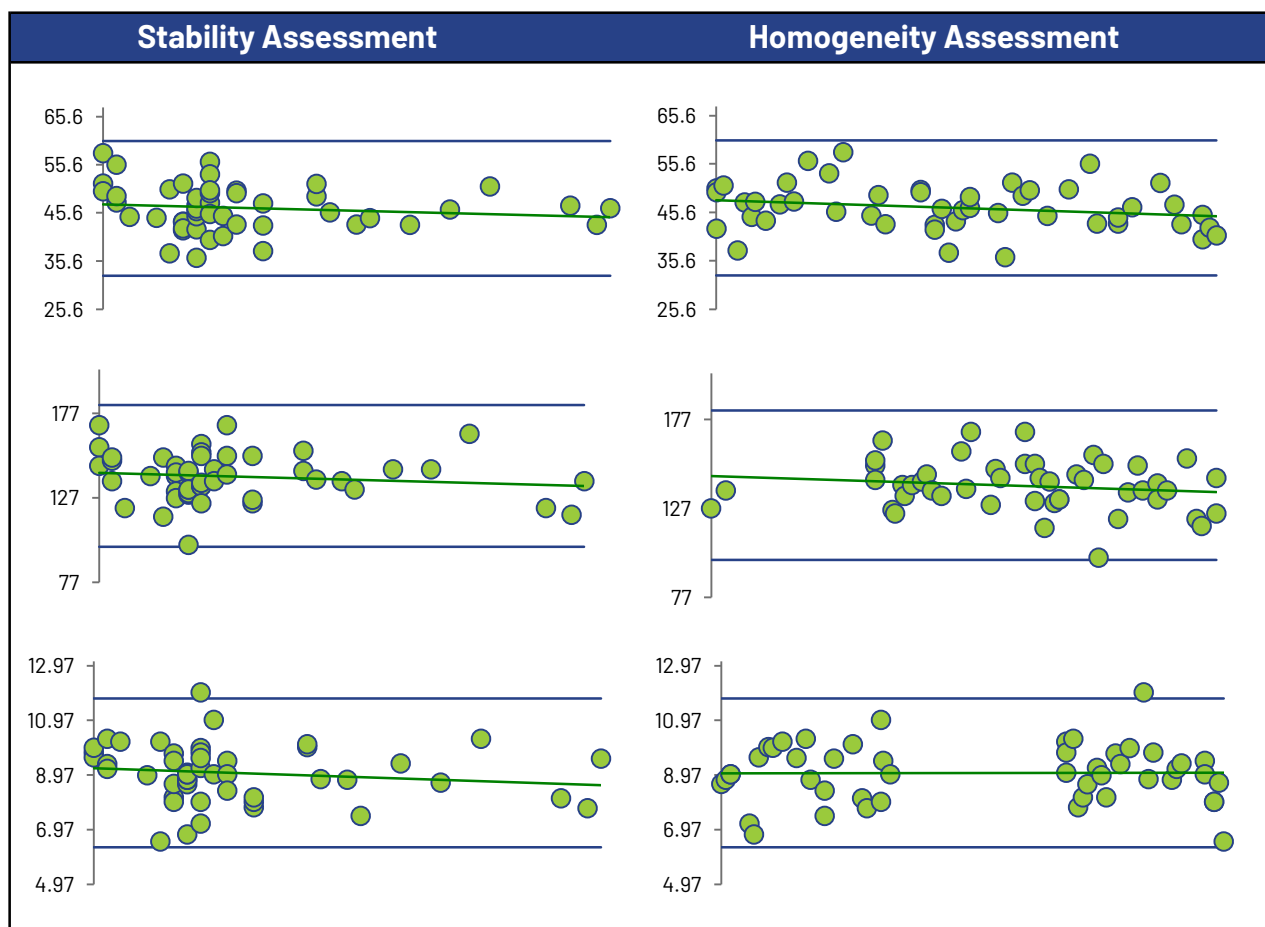
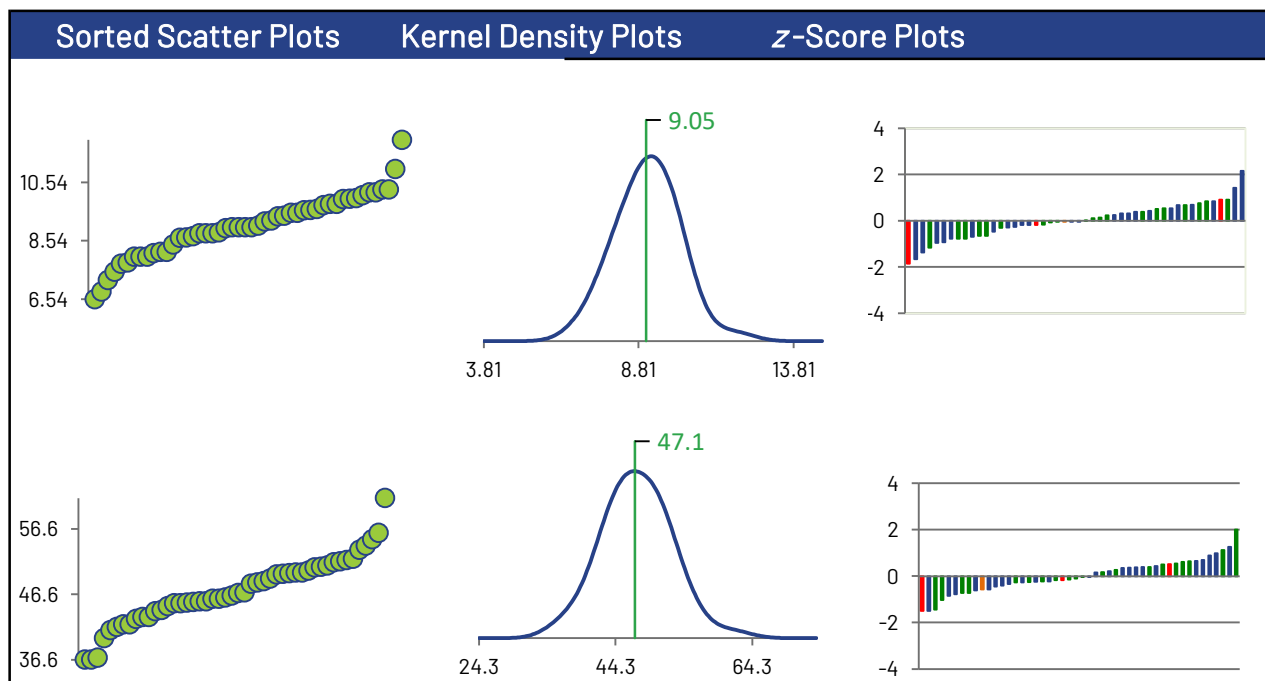
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	24	24	24	24
GC/MS (Red)	3	3	3	3
GC/MS - HEADSPACE (Green)	20	20	20	20
GC/FID - PURGE AND TRAP (Orange)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

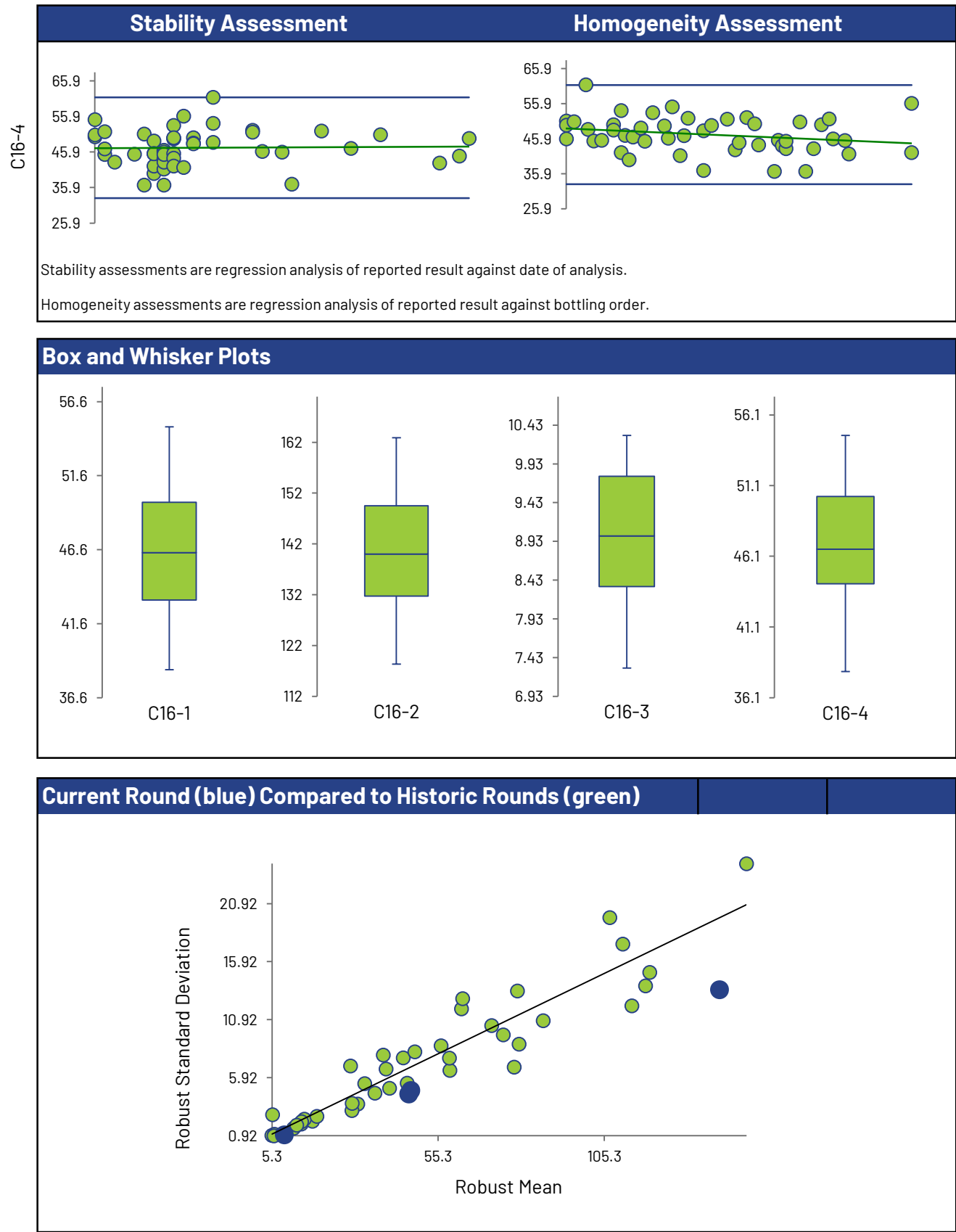


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

trans-1,2-Dichloroethylene



trans-1,2-Dichloroethylene



trans-1,3-Dichloropropene

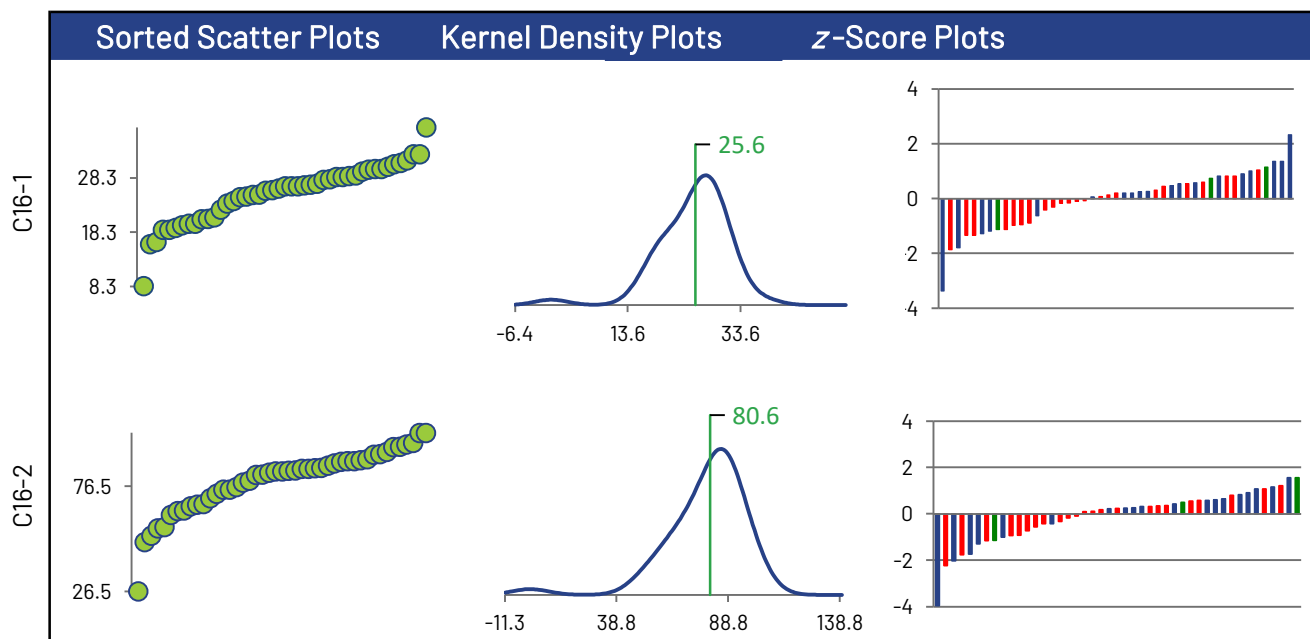
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	45	45	45	45
Median µg/L	26.7	83.7	4.95	58.6
Robust Mean µg/L	25.6	80.6	4.70	55.2
Uncertainty of the Assigned Value µg/L	0.960	2.55	0.198	1.99
Robust Standard Deviation µg/L	5.15	13.7	1.06	10.7
Regression Standard Deviation µg/L	3.84	12.1	0.706	8.27
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	5.15	13.7	1.06	10.7
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	1	0	1
$2 < z < 3$	1	2	2	0
Failure Rate %*	2.2			

Methods Used

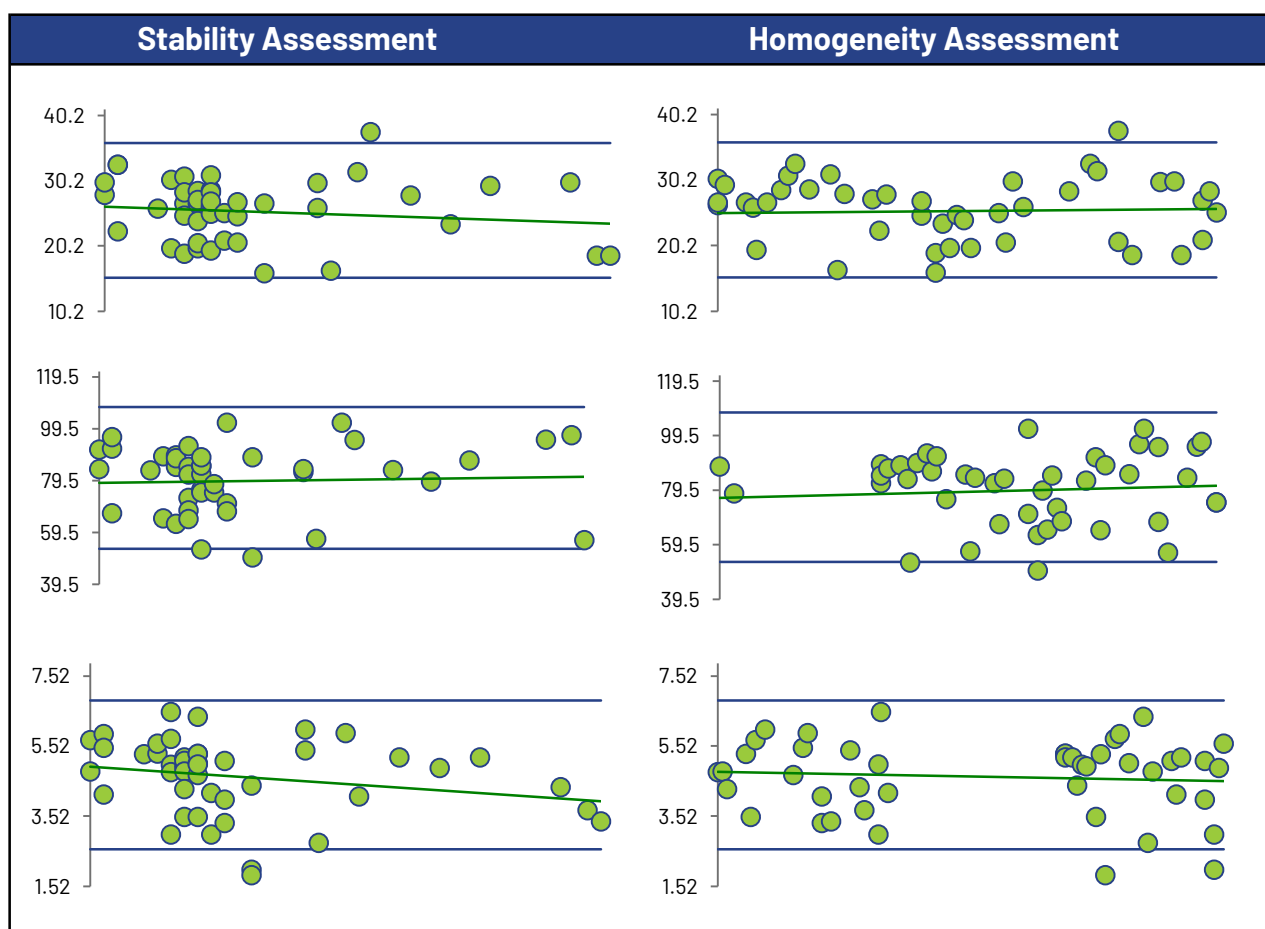
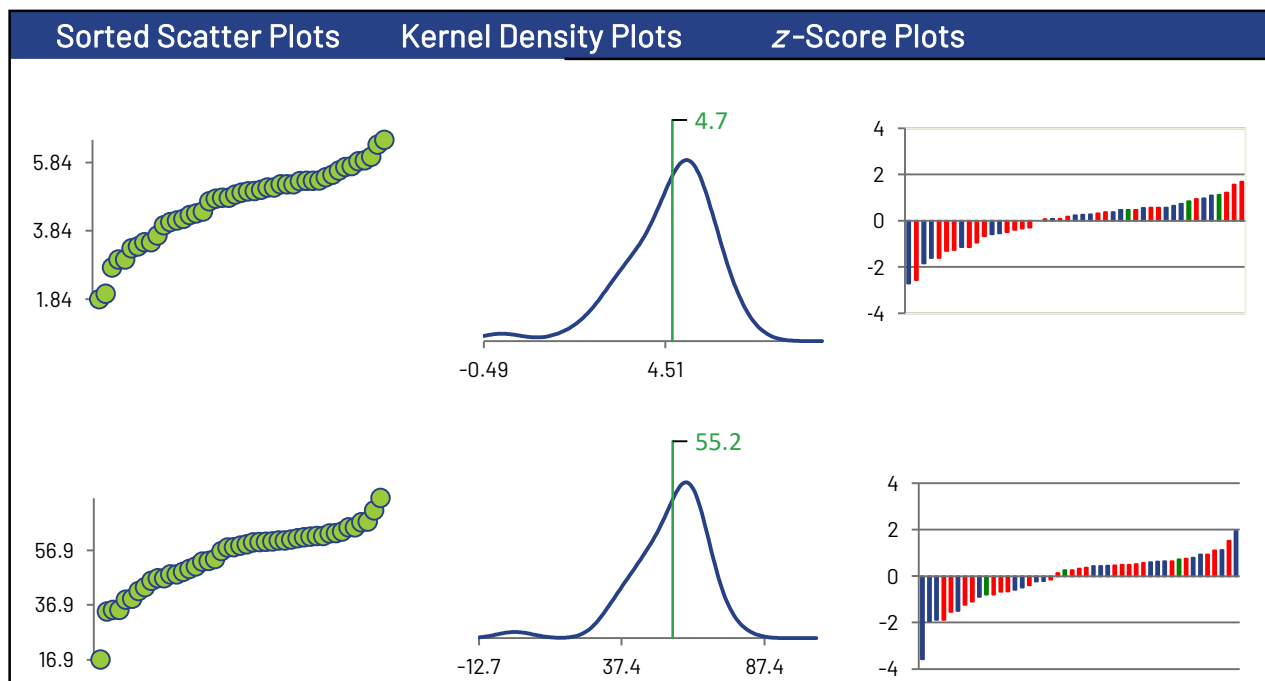
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	19	19	19	19
GC/MS - PURGE AND TRAP (Red)	23	23	23	23
GC/MS (Green)	3	3	3	3

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

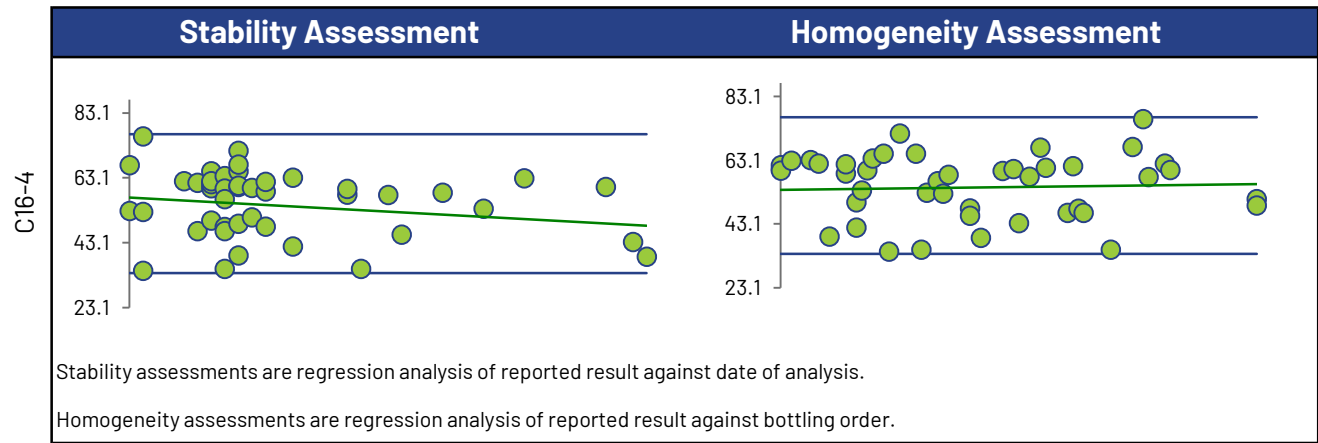


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

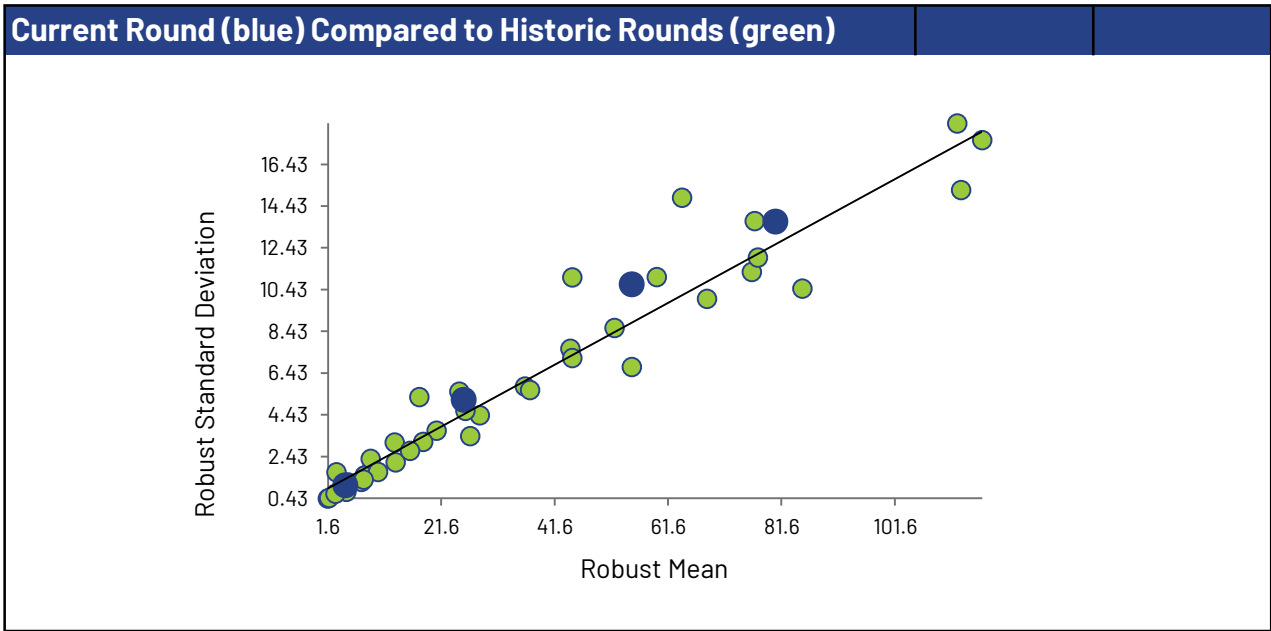
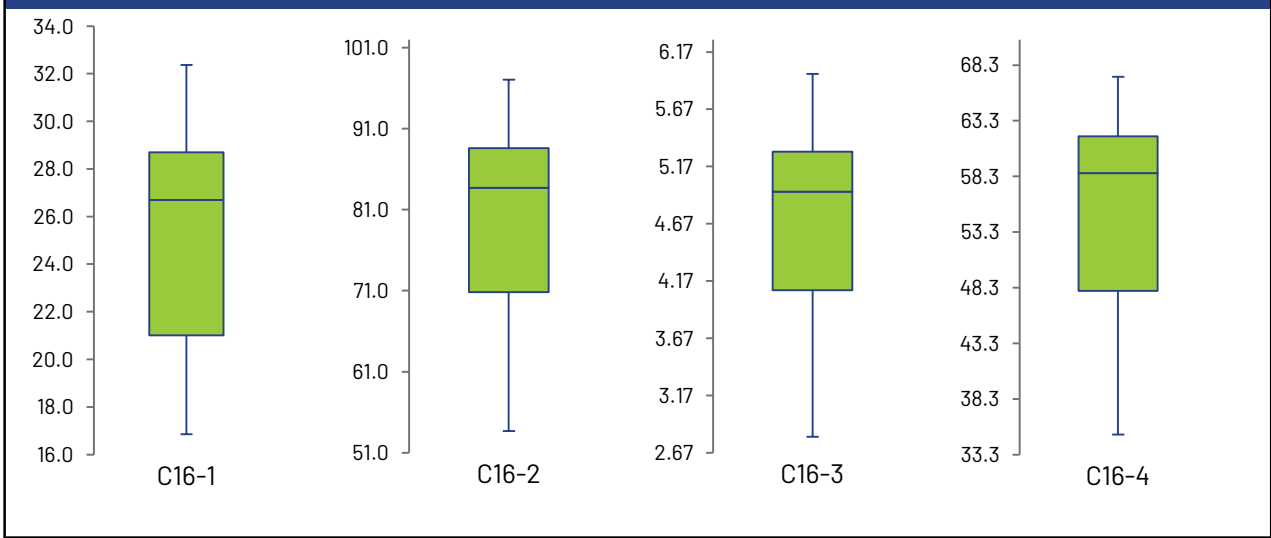
trans-1,3-Dichloropropene



trans-1,3-Dichloropropene



Box and Whisker Plots



Trichloroethylene

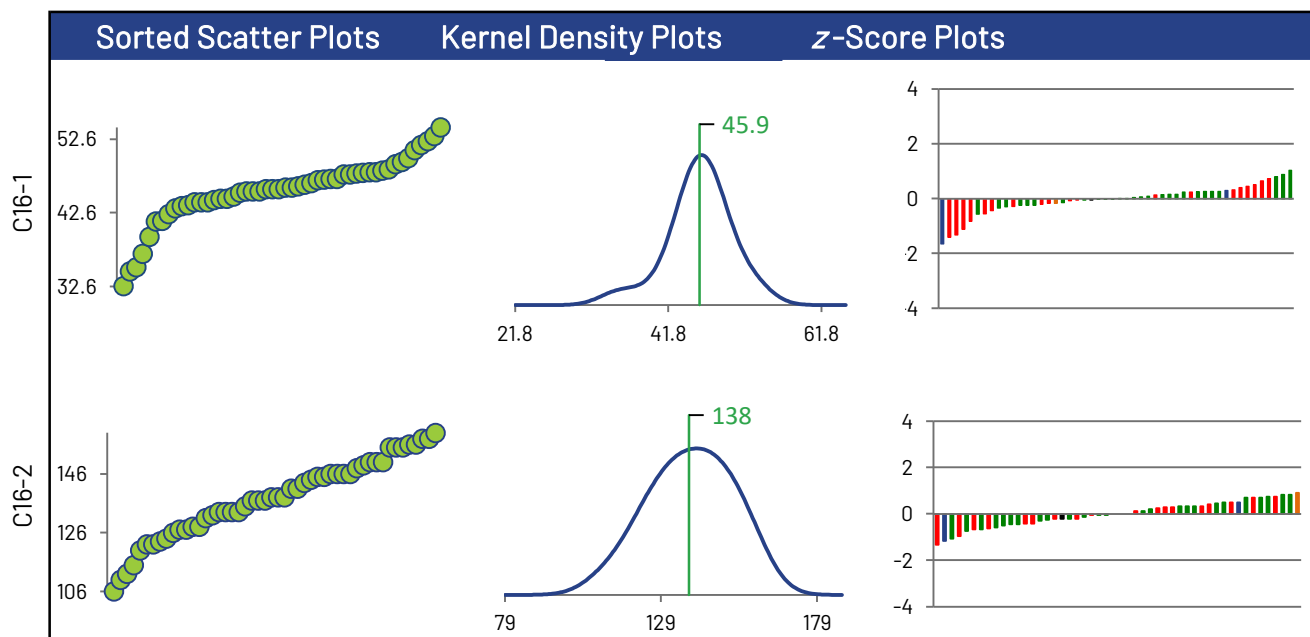
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	50	50	50	50
Median µg/L	45.9	138	9.00	64.1
Robust Mean µg/L	45.9	138	8.94	63.8
Uncertainty of the Assigned Value µg/L	0.587	2.51	0.141	1.01
Robust Standard Deviation µg/L	3.32	14.2	0.796	5.72
Regression Standard Deviation µg/L	8.04	24.2	1.57	11.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	8.04	24.2	1.57	11.2
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	0
Failure Rate %*	0.0			

Methods Used

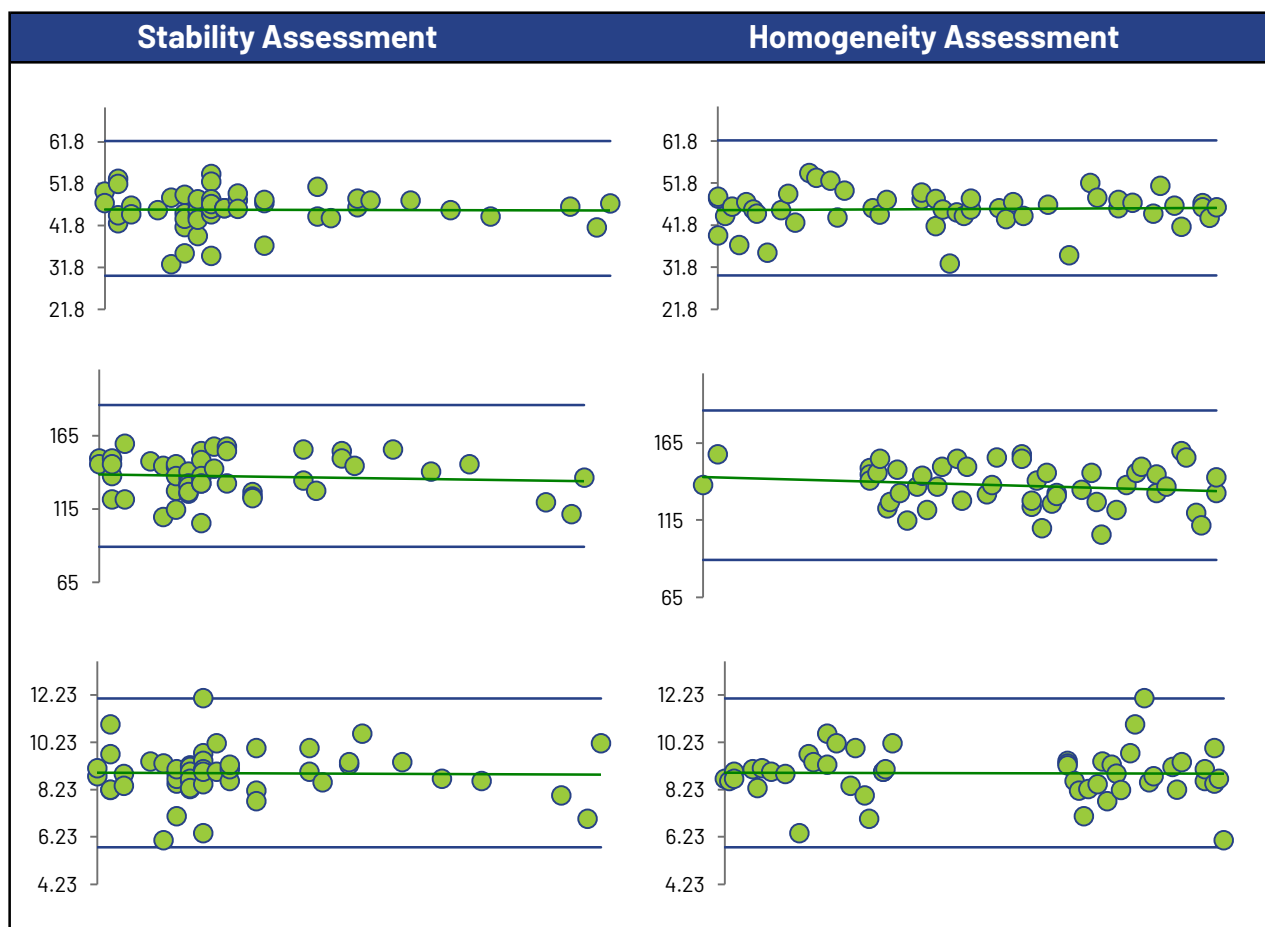
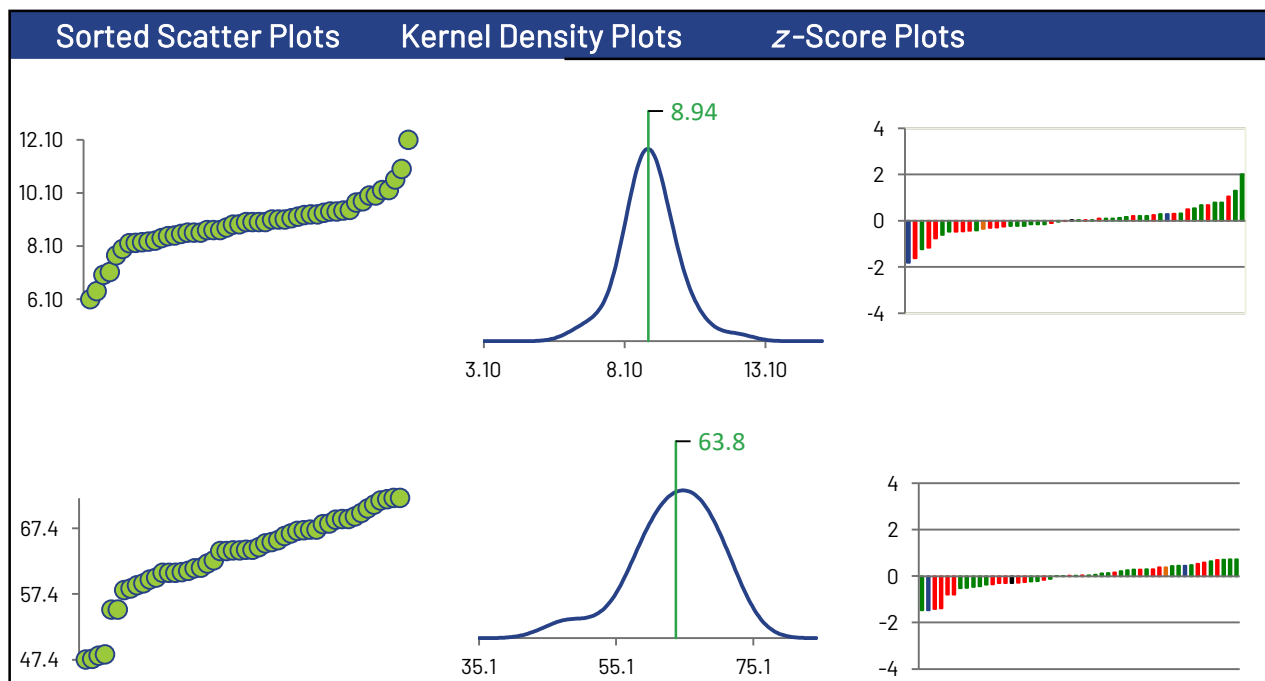
Method	C16-1	C16-2	C16-3	C16-4
GC/MS (Blue)	2	2	2	2
GC/MS - HEADSPACE (Red)	19	19	19	19
GC/MS - PURGE AND TRAP (Green)	27	27	27	27
GC/MS/MS - HEADSPACE (Orange)	1	1	1	1
GC/FID - PURGE AND TRAP (Black)	1	1	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

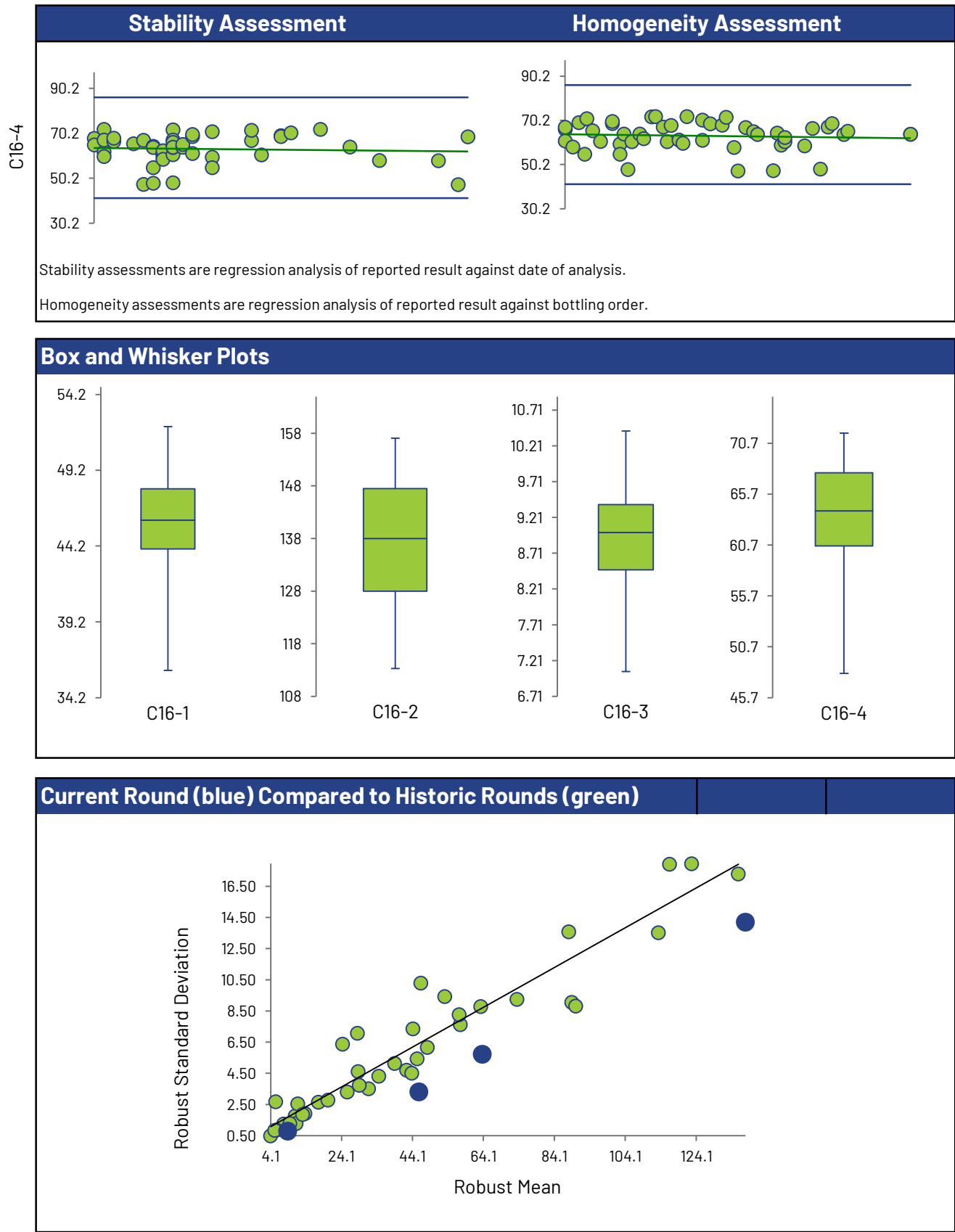


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Trichloroethylene



Trichloroethylene



Trichlorofluoromethane

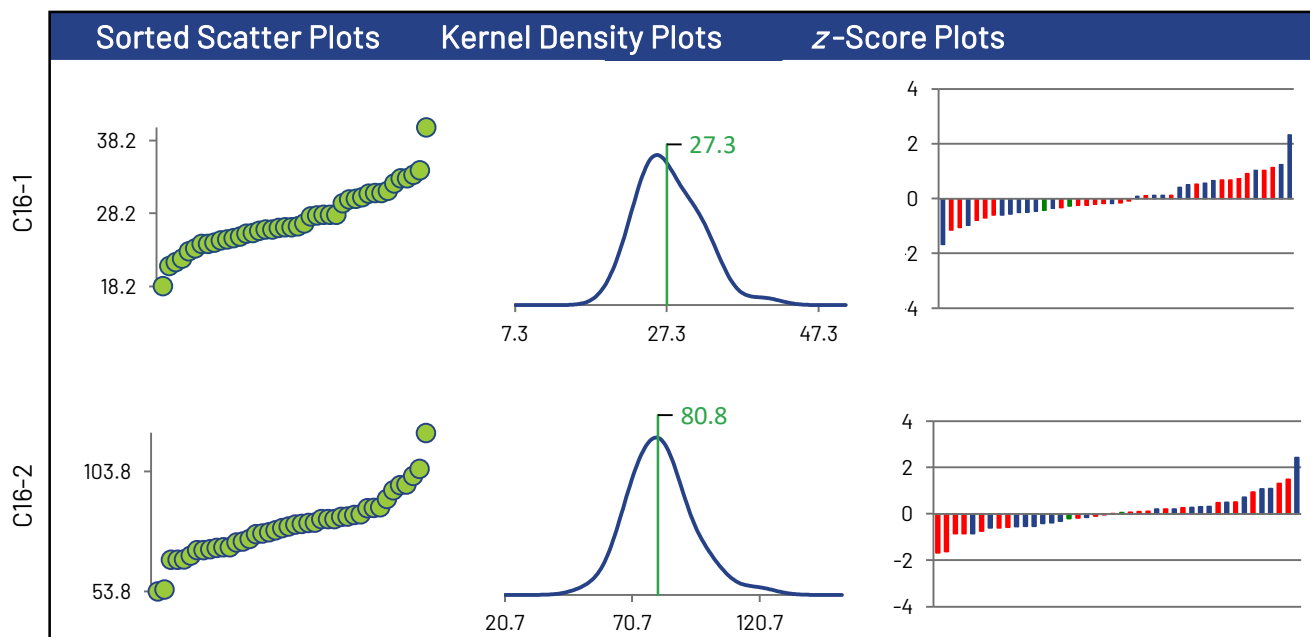
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	42	42	40	42
Median µg/L	26.4	81.4	5.60	39.0
Robust Mean µg/L	27.3	80.8	5.76	39.0
Uncertainty of the Assigned Value µg/L	0.795	2.16	0.184	0.822
Robust Standard Deviation µg/L	4.12	11.2	0.930	4.26
Regression Standard Deviation µg/L	5.46	16.2	1.15	7.79
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	5.46	16.2	1.15	7.79
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	1	0	1
Failure Rate %*	2.4			

Methods Used

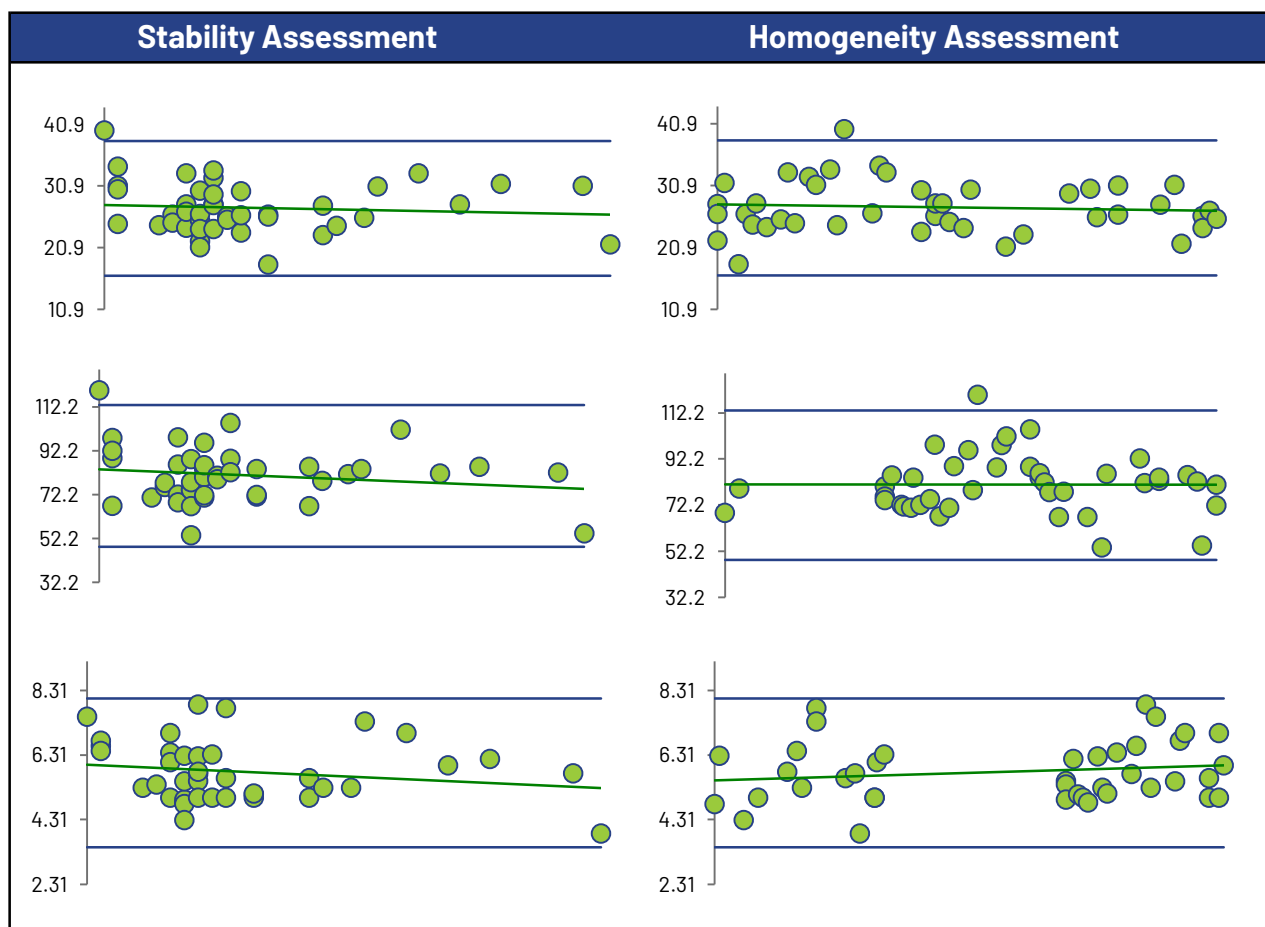
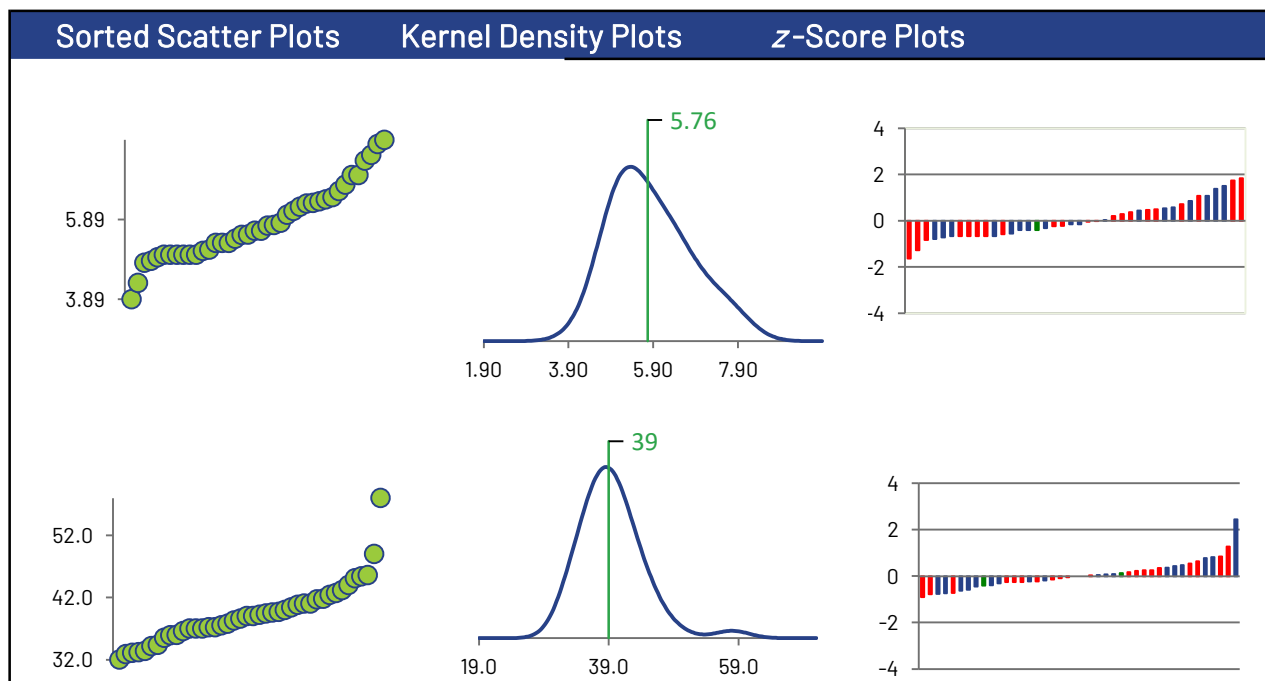
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - HEADSPACE (Blue)	19	19	18	19
GC/MS - PURGE AND TRAP (Red)	21	21	21	21
GC/MS (Green)	2	2	1	2

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

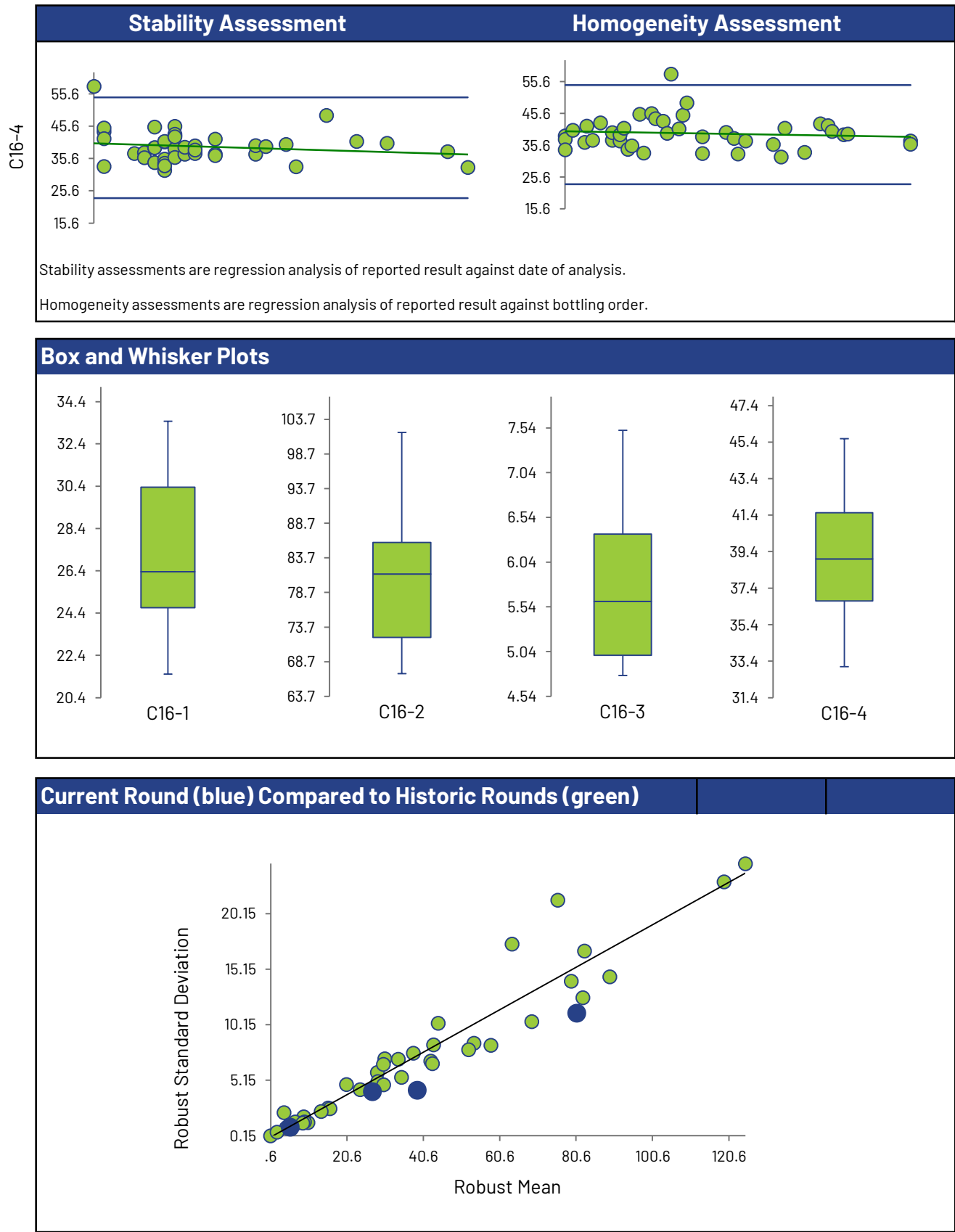


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Trichlorofluoromethane



Trichlorofluoromethane



Vinyl Chloride

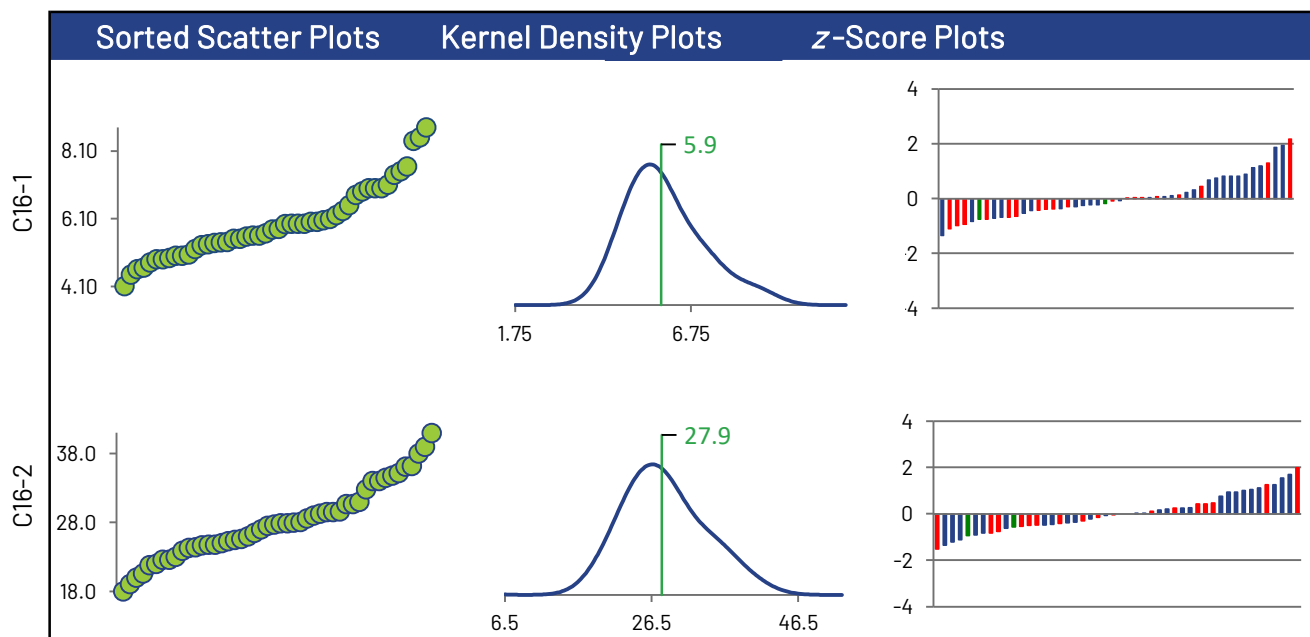
Summary Statistics

Statistic	C16-1	C16-2	C16-3	C16-4
No. of results used for summary statistics	48	48	48	49
Median µg/L	5.79	27.8	2.80	18.6
Robust Mean µg/L	5.90	27.9	2.82	18.5
Uncertainty of the Assigned Value µg/L	0.186	1.01	0.0817	0.588
Robust Standard Deviation µg/L	1.03	5.58	0.453	3.29
Regression Standard Deviation µg/L	1.33	6.29	0.634	4.17
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) µg/L	1.33	6.57	0.634	4.17
Flagged Outliers	1	1	0	0
$ z > 3.0$	0	0	3	1
$2 < z < 3$	1	0	0	1
Failure Rate %*	2.0			

Methods Used

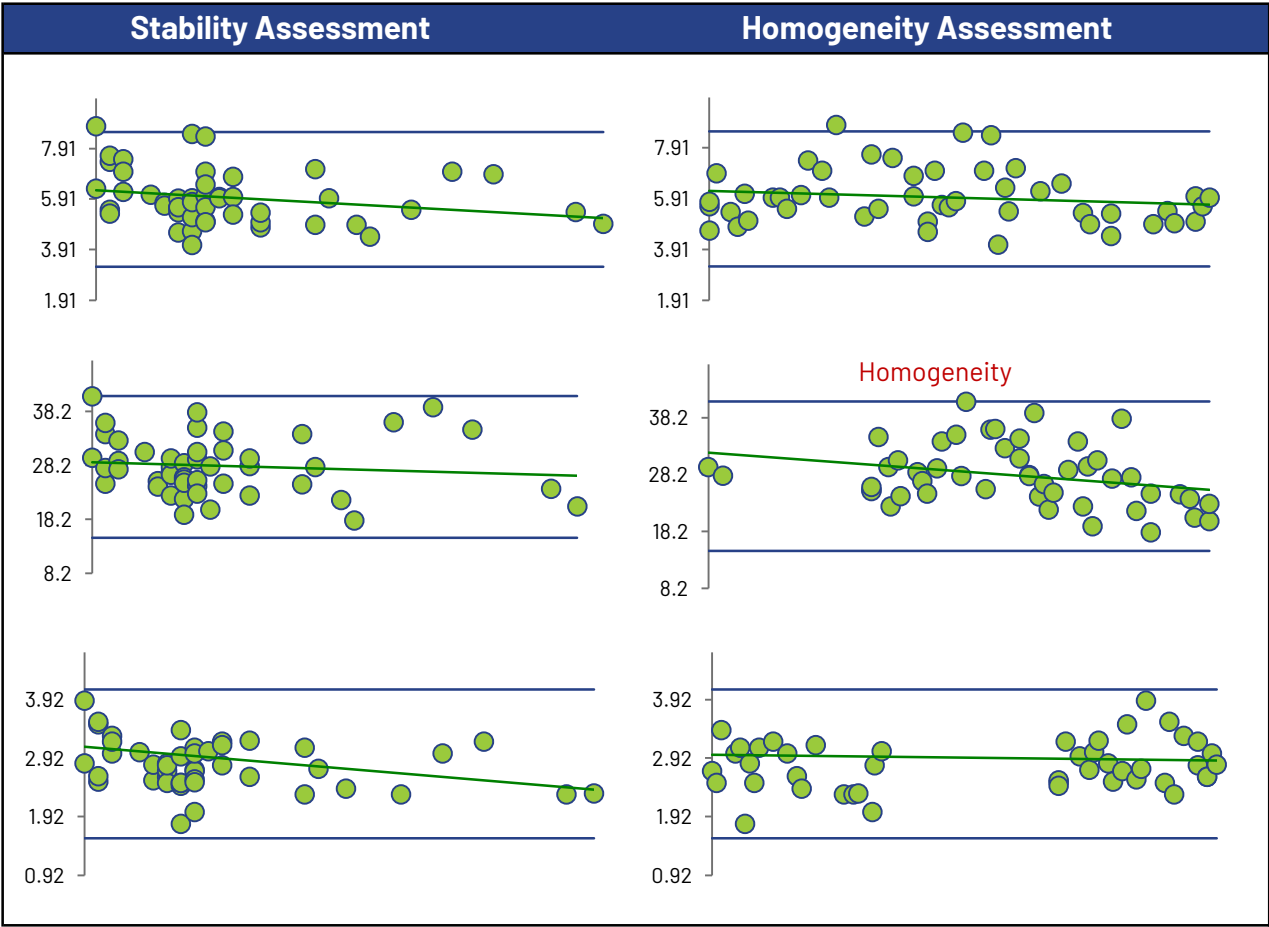
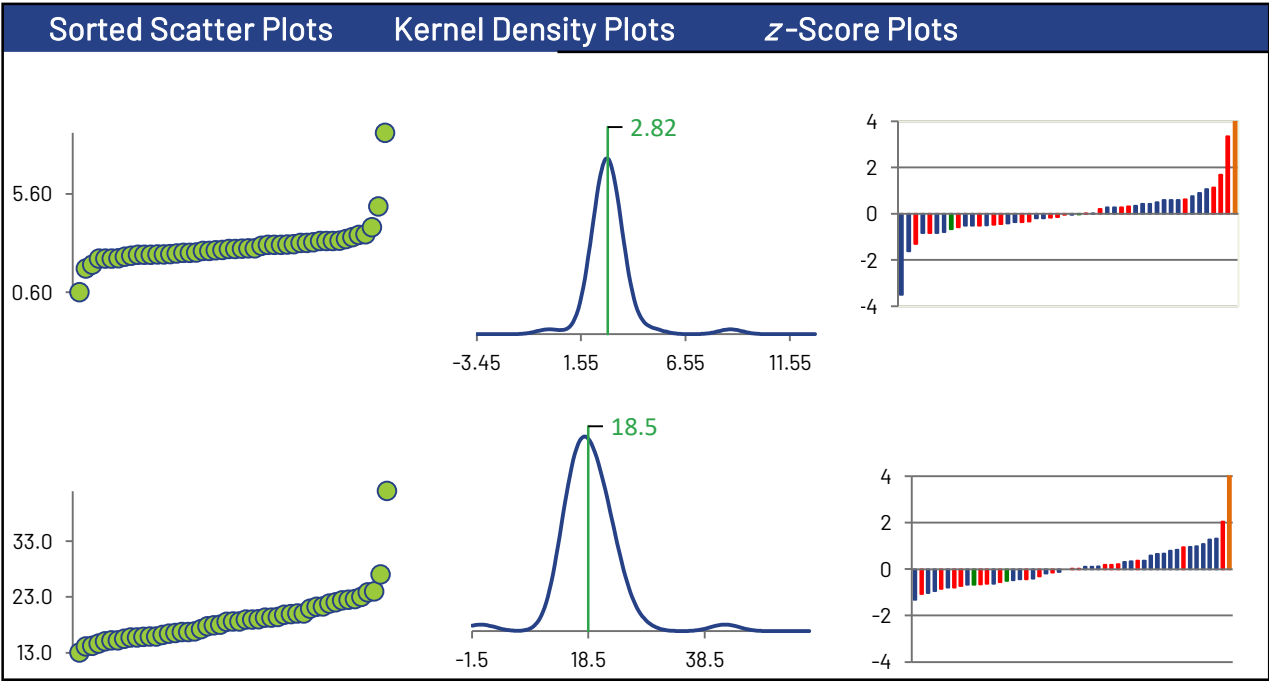
Method	C16-1	C16-2	C16-3	C16-4
GC/MS - PURGE AND TRAP (Blue)	27	27	26	27
GC/MS - HEADSPACE (Red)	19	19	19	19
GC/MS (Green)	2	2	2	2
GC/MS/MS - HEADSPACE (Orange)	0	0	1	1

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Vinyl Chloride



Vinyl Chloride

