Test Group Summary Report

C36 Volatile Organic Compounds in Soil

January 2026 PT Round

Issued: March 2, 2026

PTC | Proficiency Testing Canada

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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 participant-specific PTC Proficiency Testing Report contains some terms that new participants may not be familiar with.

Code:	The registration code that is unique to each analyte that a participant is registered for.
App:	If a participant is accredited by CALA, this three-digit number is the appendix number that the accredited method is assigned to.
N:	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.
Assigned:	The Assigned Value is the robust mean of the reported results, outliers excluded. This is often referred to as the "target" value.
± u:	The uncertainty of the assigned value.
Reported:	The result reported by the participant.
s:	The Standard Deviation of Proficiency Assessment (SDPA). This value is used to determine the acceptance limits for the PT evaluation.
z-Score:	A value assigned to each reported result that is a measure of the degree to which it deviates from the Assigned Value.
Score:	The composite score of the four results reported for each analyte. It is normalized to a score out of 100.
Bias:	A flag assigned if bias is detected using the re-scaled *z*-score procedure.

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 13528:2015 *Statistical methods for use in proficiency testing by interlaboratory comparisons*.

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:

$$z - Score = \frac{(x - \bar{X})}{SDPA}$$

where: x = participant result;
$\overline{X}$ = the Assigned Value;
SDPA = the Standard Deviation for Proficiency Assessment.

The assigned value $\overline{X}$ 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 x 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.

$$RSZ = \frac{\sum z}{\sqrt{N}}$$

where z = the z- score
N = the number of samples

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

RSZ $\geq$ -2 and $\leq$ 2 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

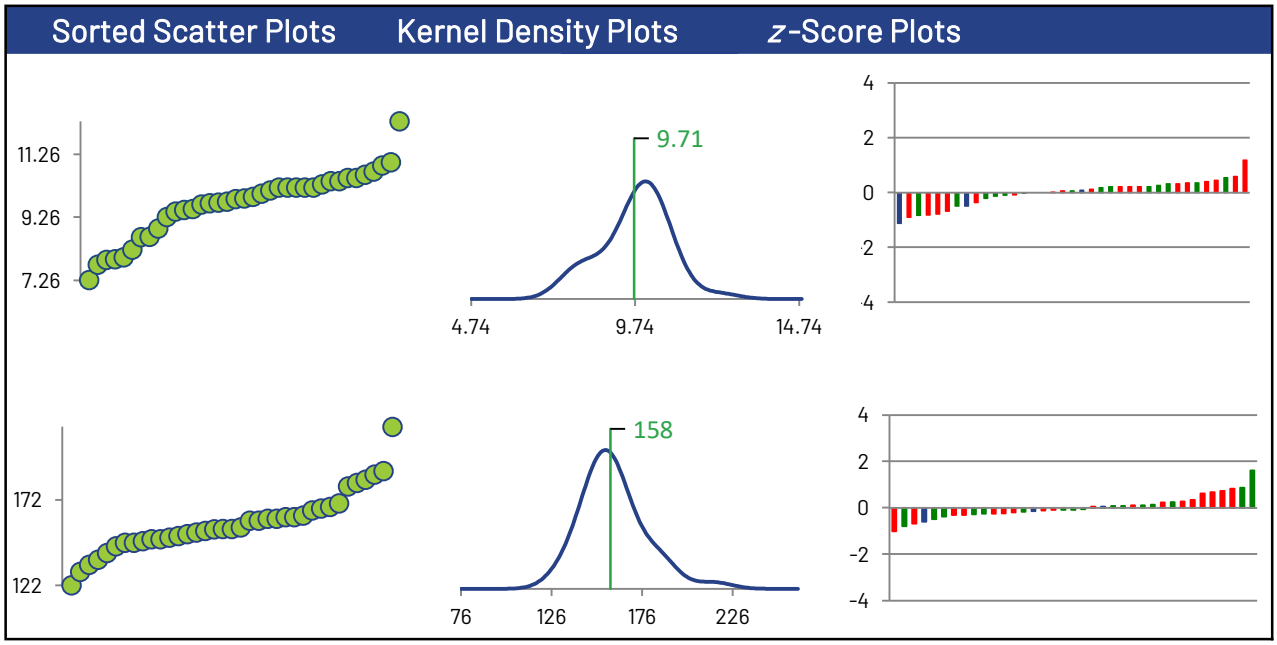
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.85	155	55.2	127
Robust Mean µg/g	9.71	158	55.0	125
Uncdrtainty of the Assigned Value µg/g	0.205	3.27	1.47	2.86
Robust Standard Deviation µg/g	1.00	15.9	7.16	13.9
Regression Standard Deviation µg/g	2.18	35.5	12.4	28.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	2.18	35.5	12.4	28.1
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

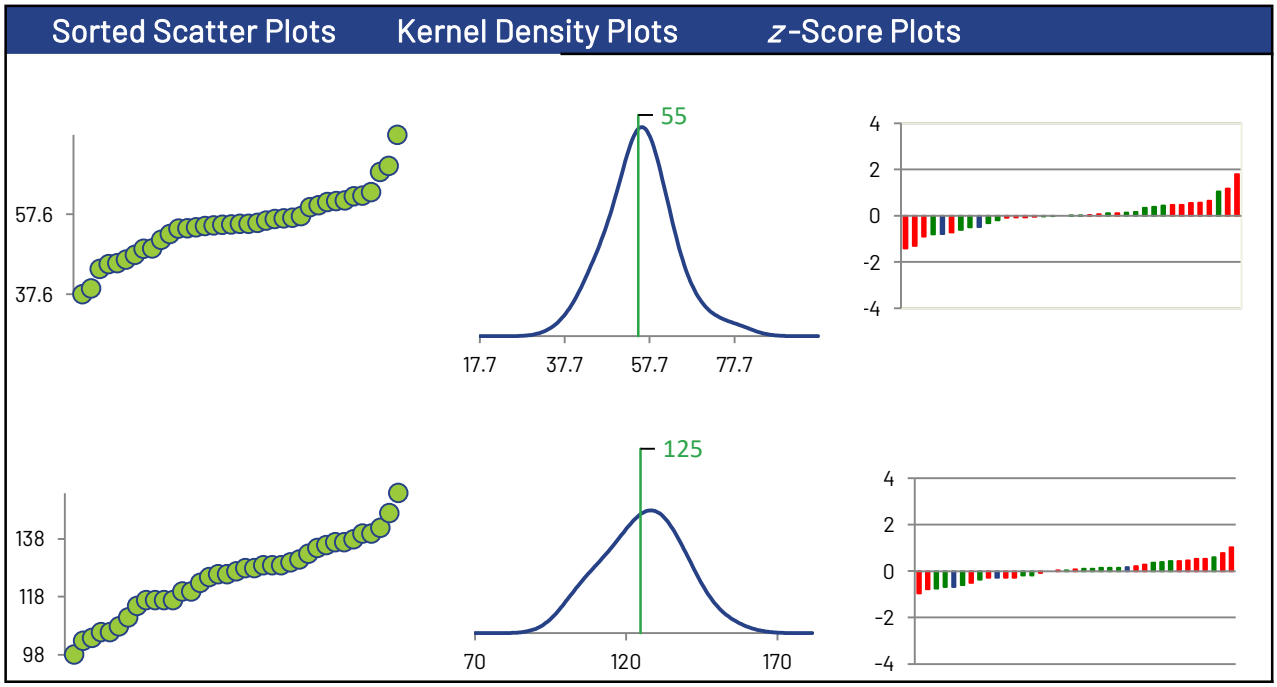
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	16	16	16	16

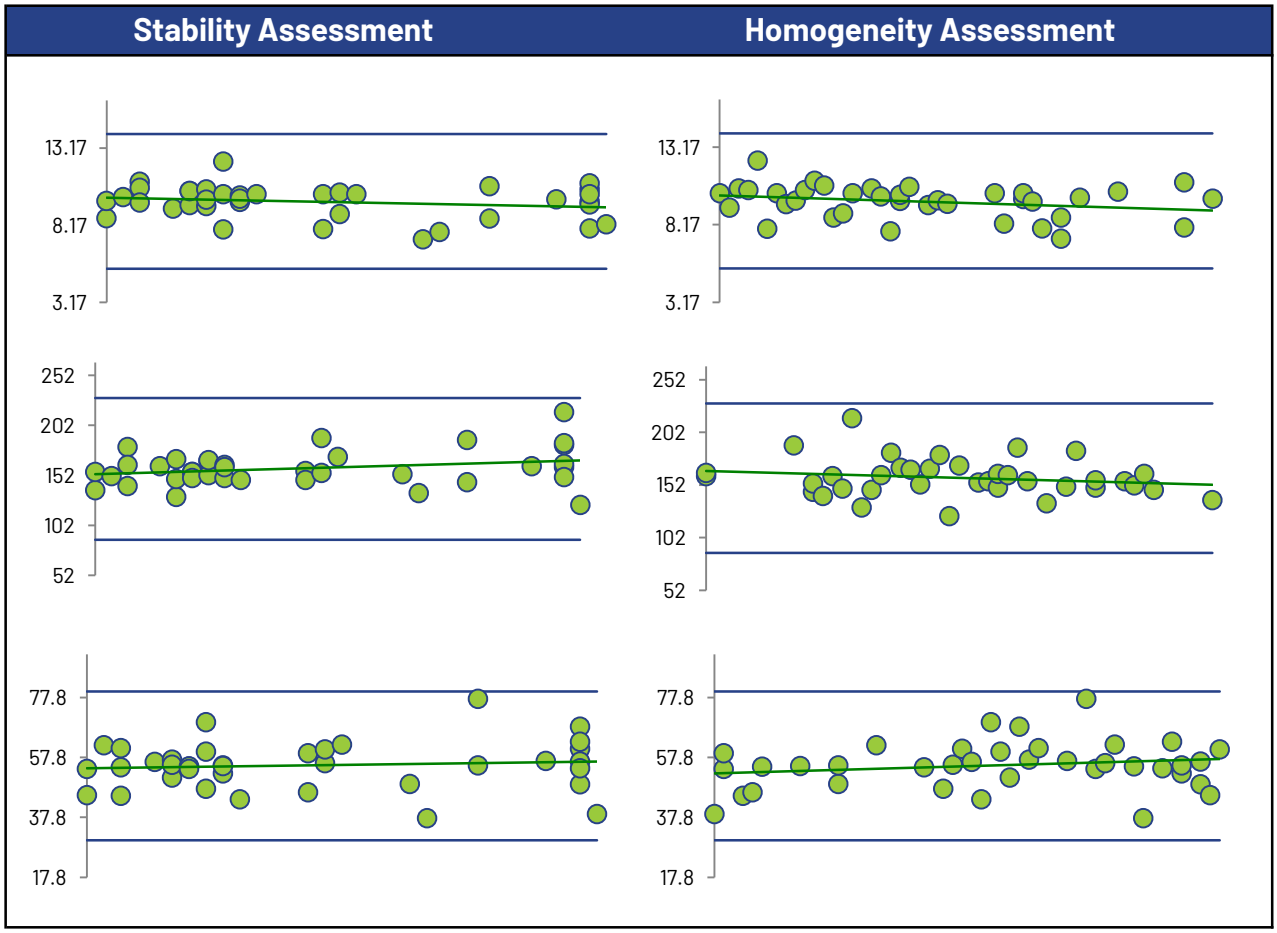
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

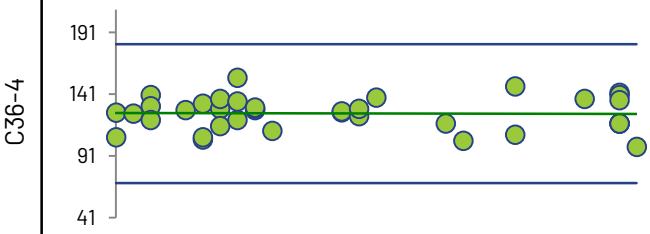
1,1,1-Trichloroethane



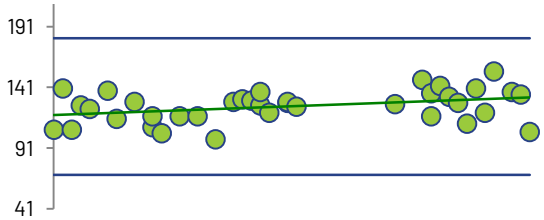


1,1,1-Trichloroethane

Stability Assessment



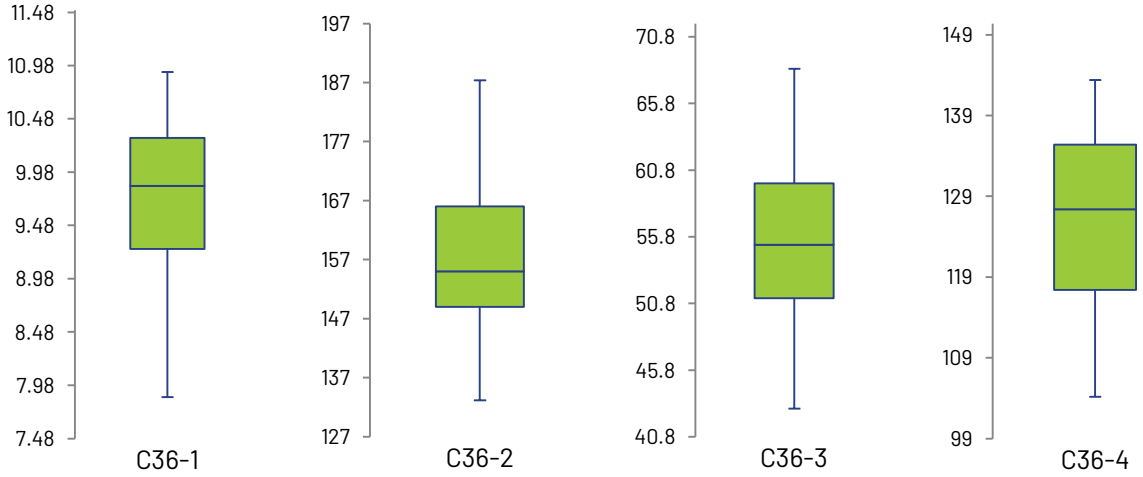
Homogeneity Assessment



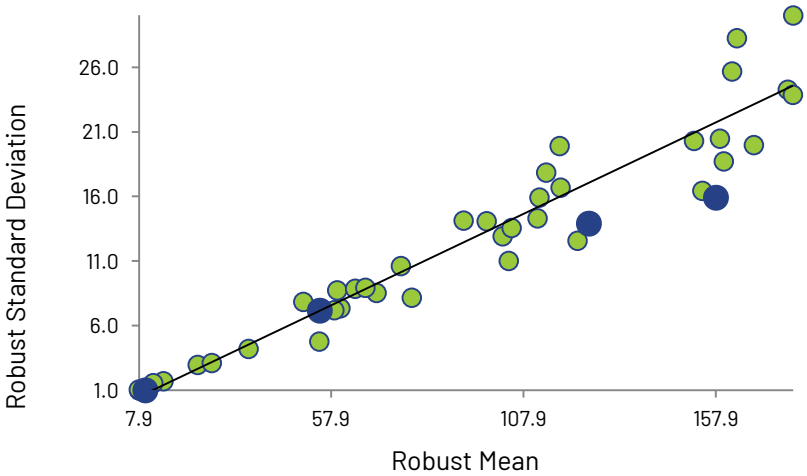
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,1,2,2-Tetrachloroethane

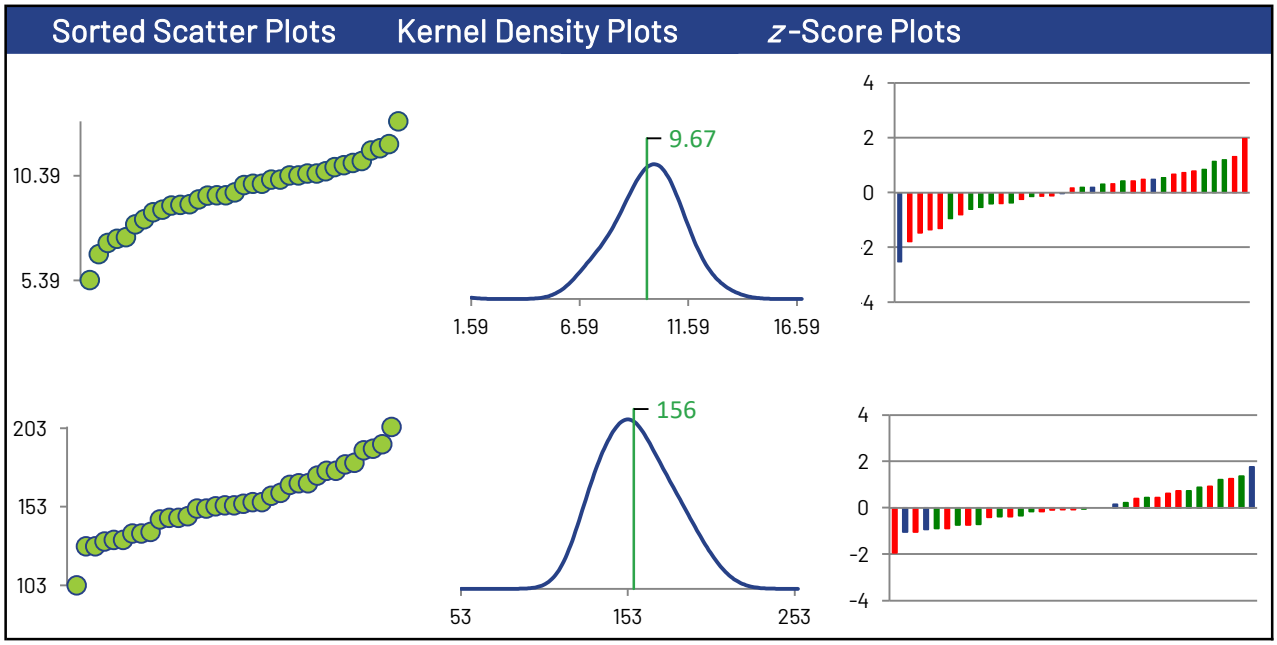
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	35	35	35	35
Median µg/g	9.95	154	53.8	129
Robust Mean µg/g	9.67	156	54.9	128
Uncdrtainty of the Assigned Value µg/g	0.327	4.75	1.96	4.56
Robust Standard Deviation µg/g	1.55	22.5	9.29	21.6
Regression Standard Deviation µg/g	1.69	27.3	9.60	22.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.69	27.3	9.60	22.4
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	0	1	0
Failure Rate %*	0.0			

Methods Used

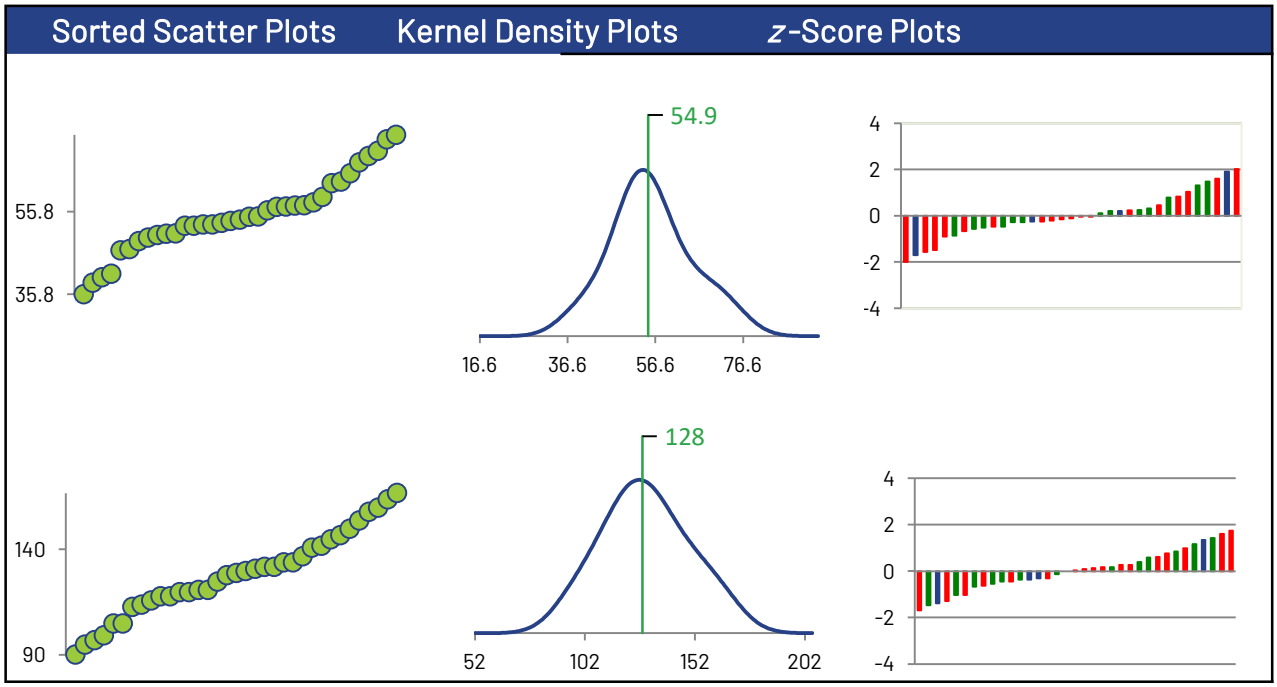
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	4	4	4	4
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	13	13	13	13

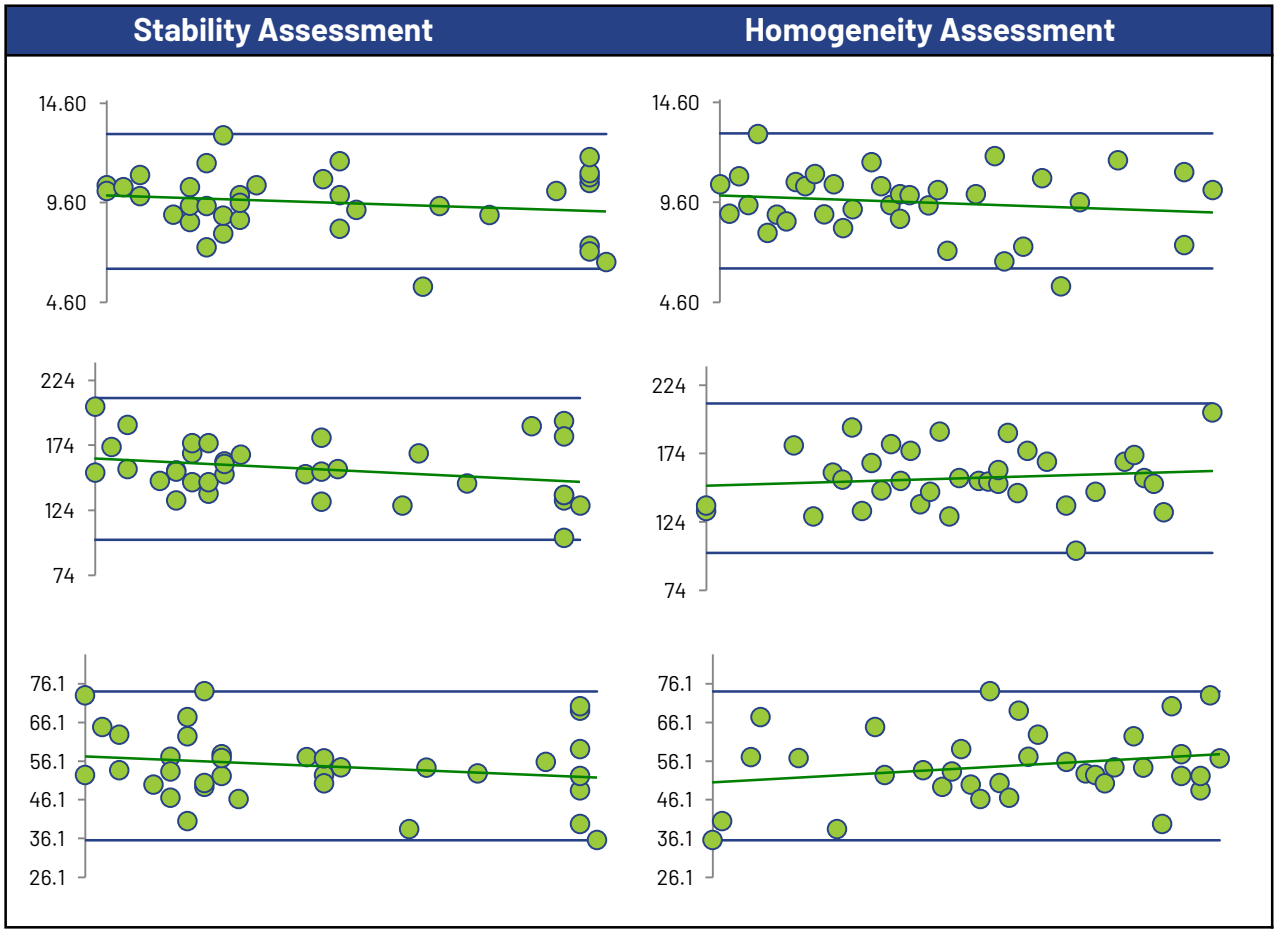
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

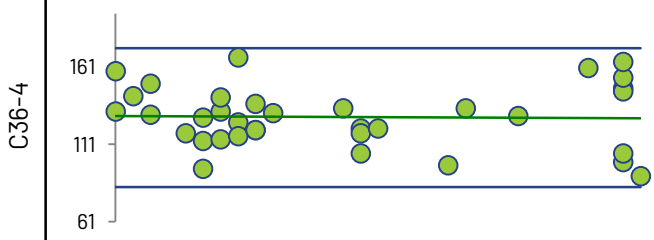
1,1,2,2-Tetrachloroethane



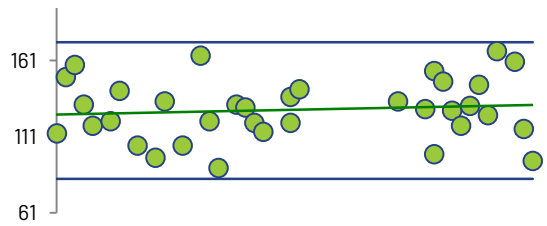


1,1,2,2-Tetrachloroethane

Stability Assessment



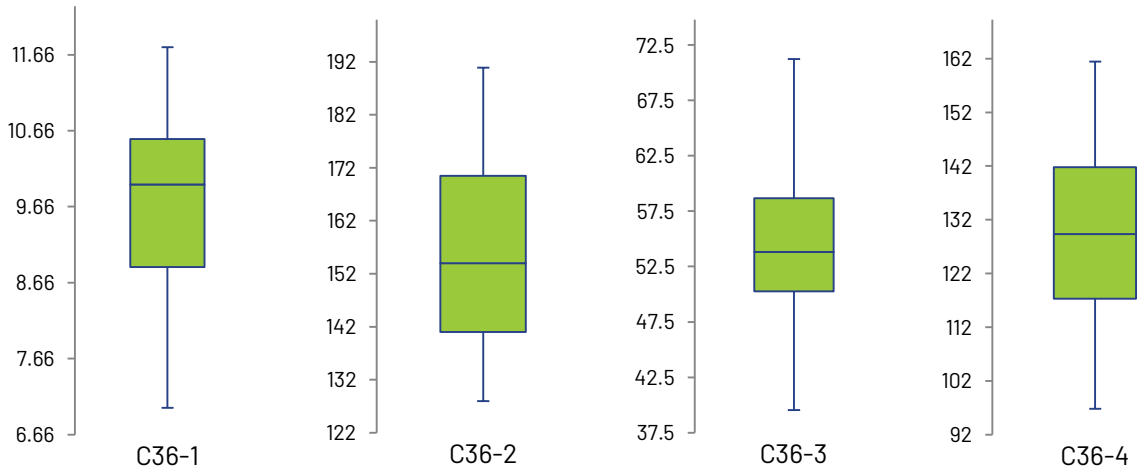
Homogeneity Assessment



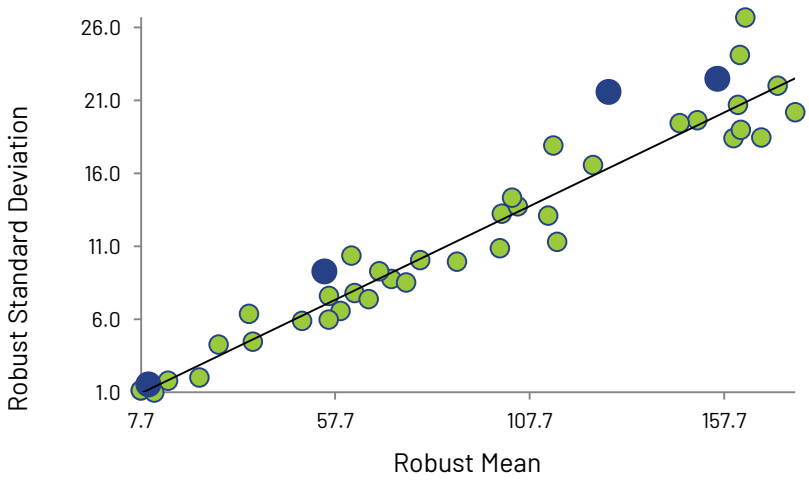
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,1,2-Trichloroethane

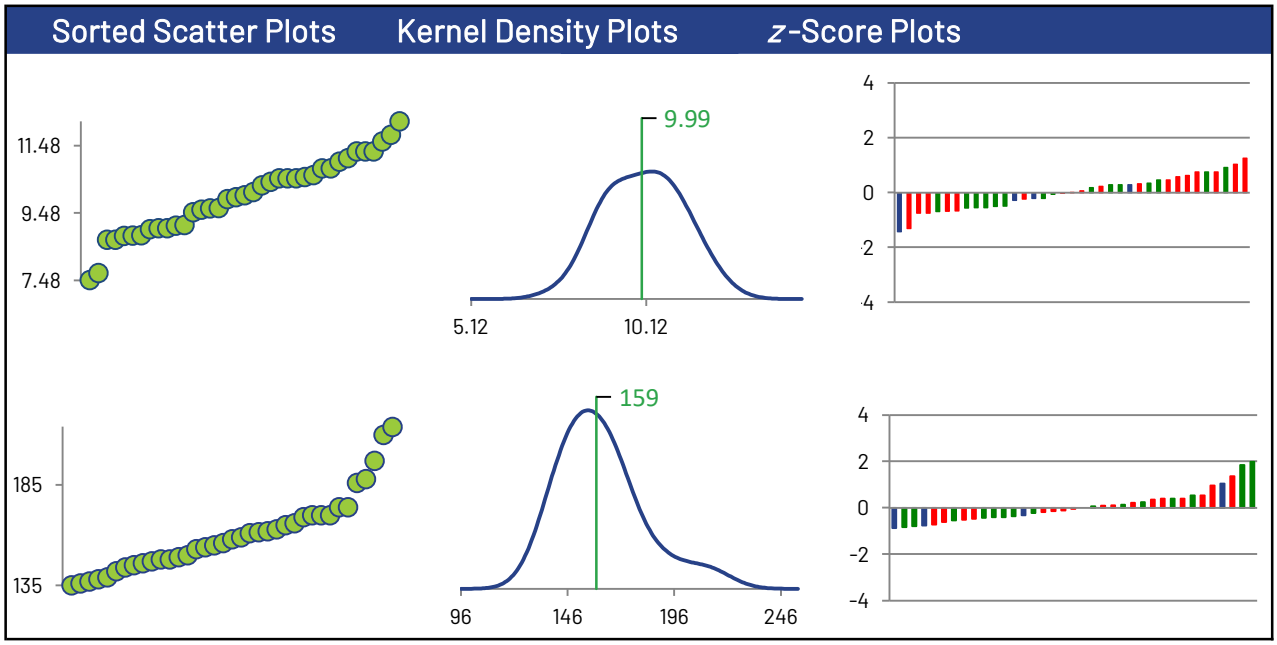
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	10.0	158	57.5	125
Robust Mean µg/g	9.99	159	56.9	126
Uncdrtainty of the Assigned Value µg/g	0.240	3.49	1.35	2.96
Robust Standard Deviation µg/g	1.17	17.0	6.56	14.4
Regression Standard Deviation µg/g	1.75	27.7	9.96	22.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.75	27.7	9.96	22.1
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	4	4	4	4
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	15	15	15	15

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



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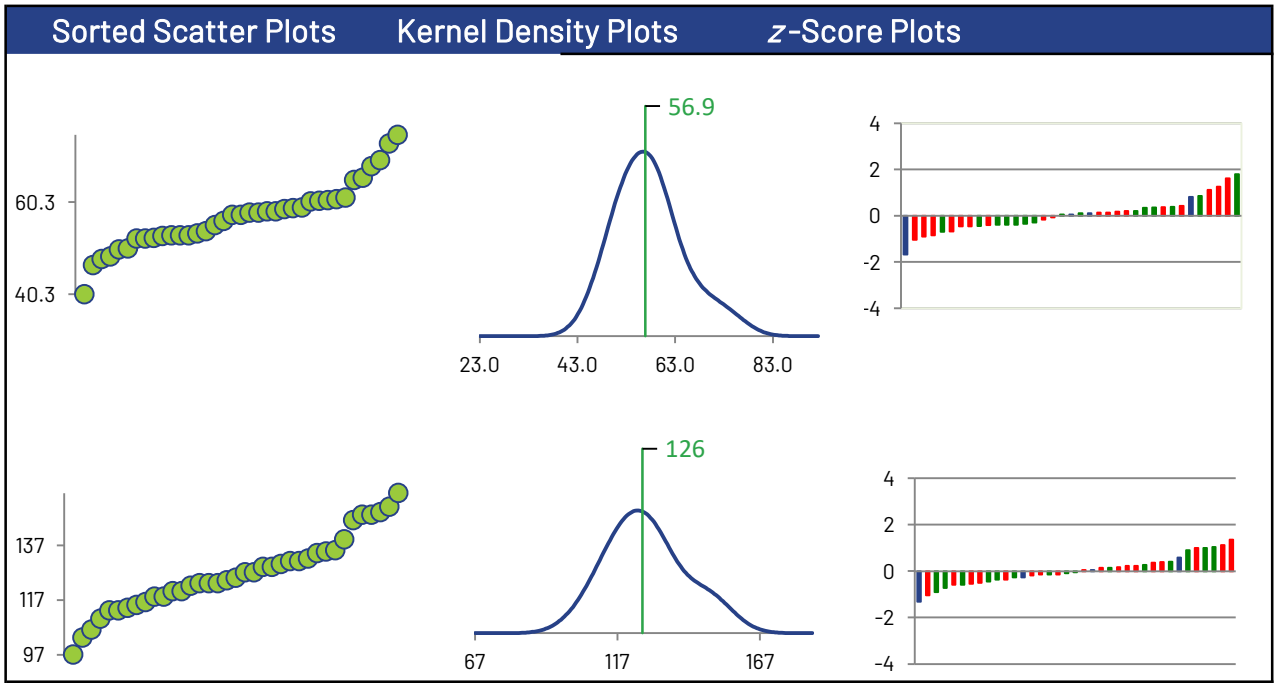
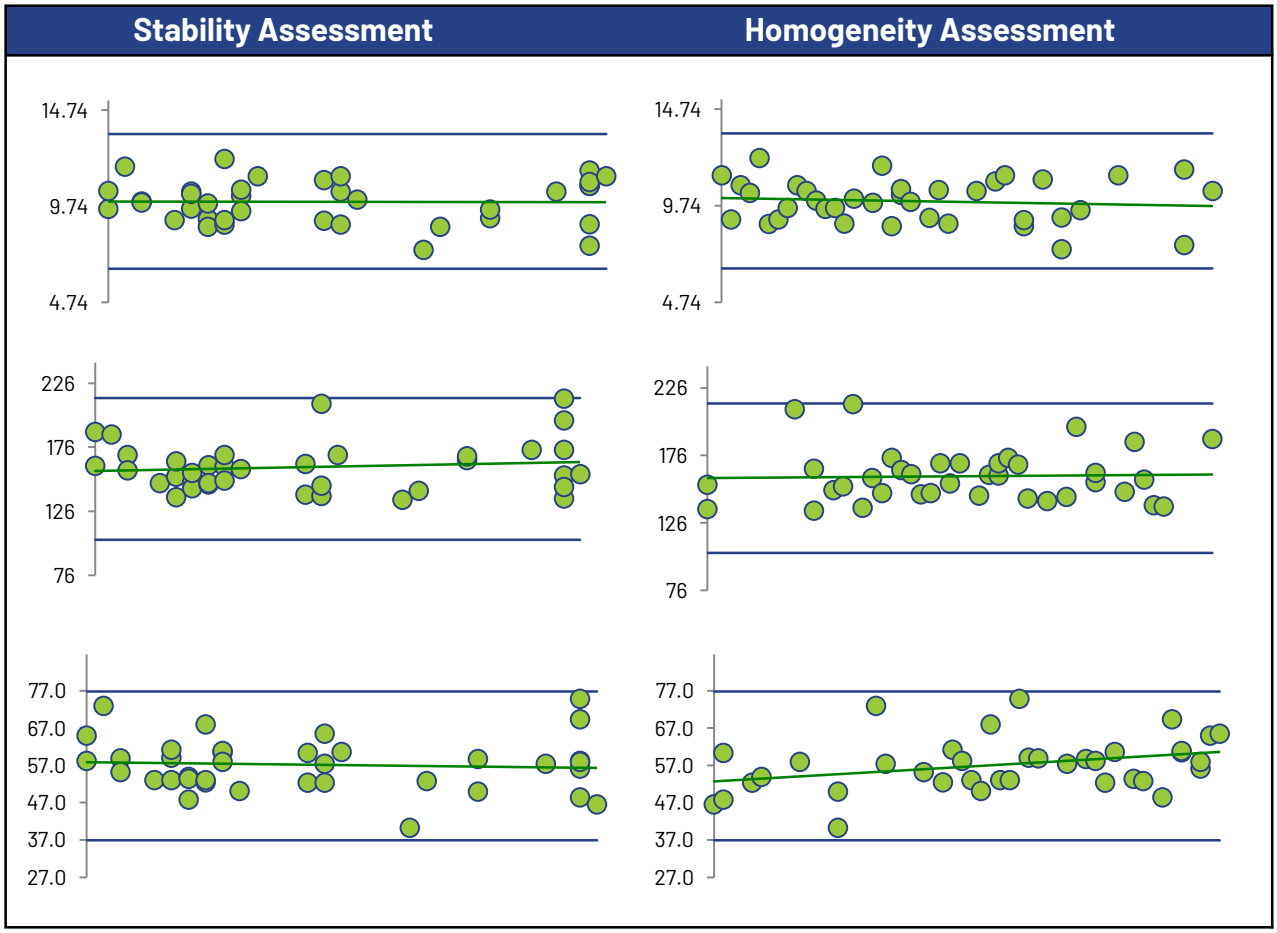
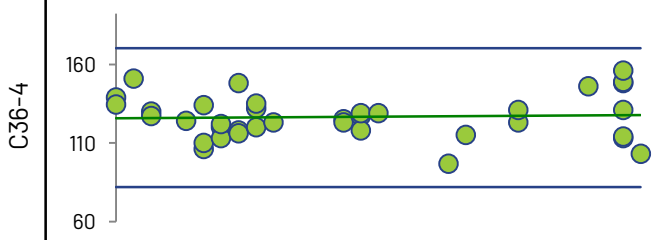
1,1,2-Trichloroethane



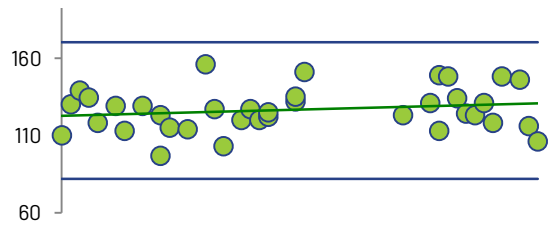


1,1,2-Trichloroethane

Stability Assessment



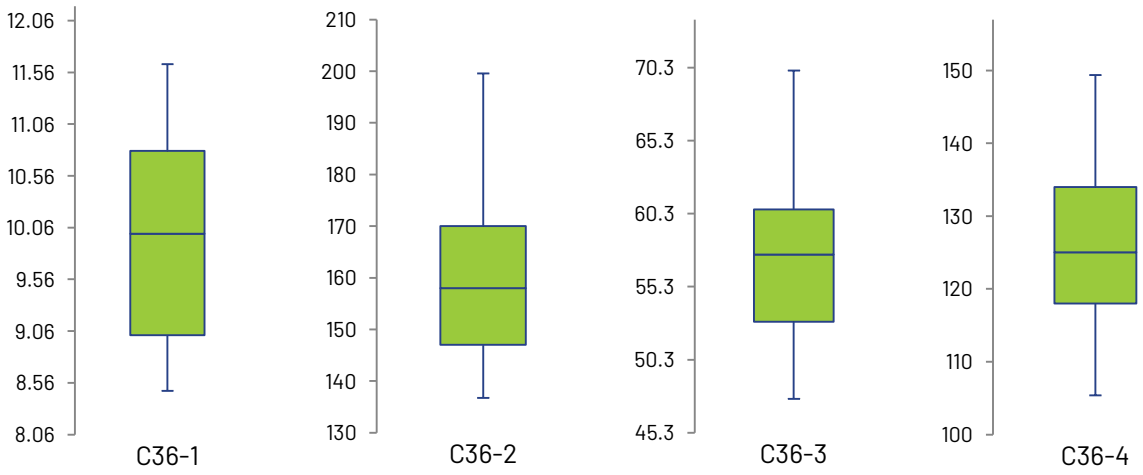
Homogeneity Assessment



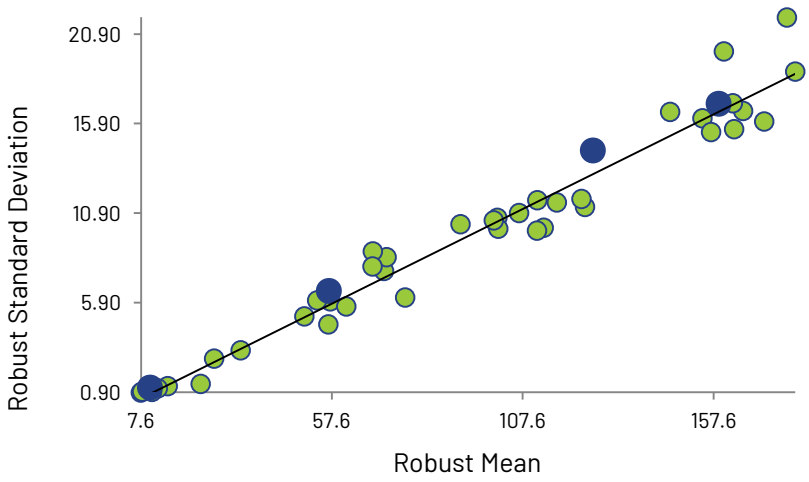
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,1-Dichloroethane

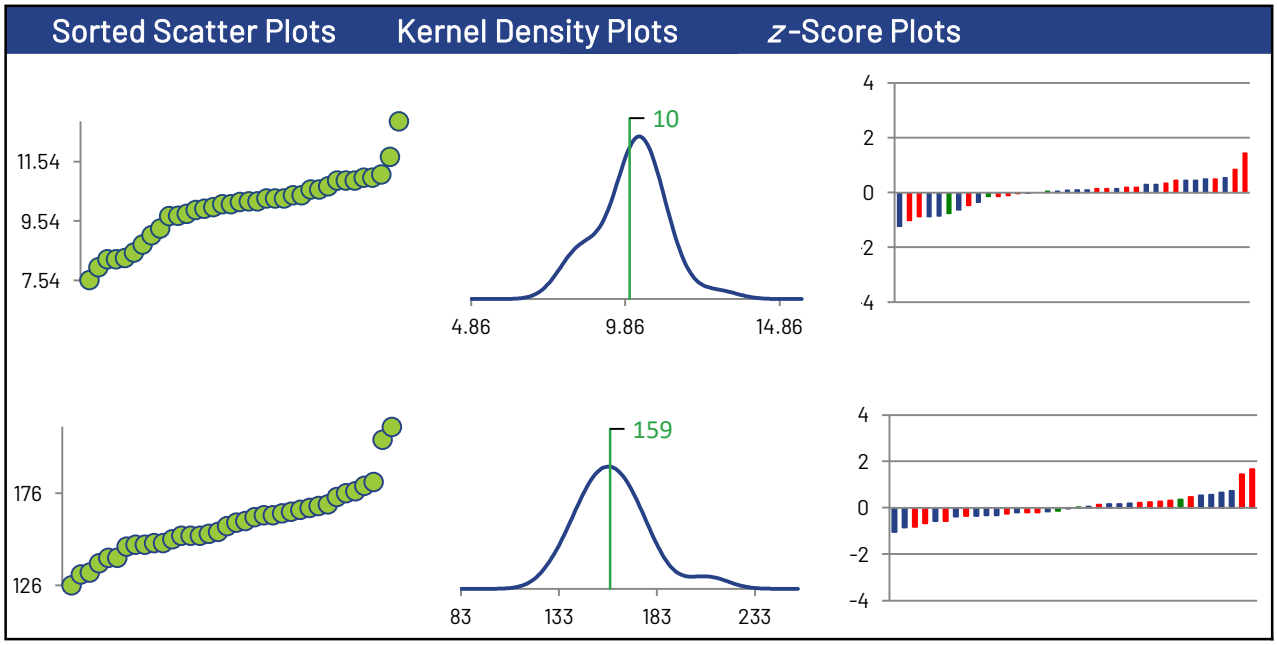
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	10.2	159	58.3	128
Robust Mean µg/g	10.0	159	57.9	125
Uncdrtainty of the Assigned Value µg/g	0.223	3.40	1.26	2.75
Robust Standard Deviation µg/g	1.07	16.3	6.05	13.2
Regression Standard Deviation µg/g	2.00	31.7	11.6	25.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	2.00	31.7	11.6	25.0
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
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



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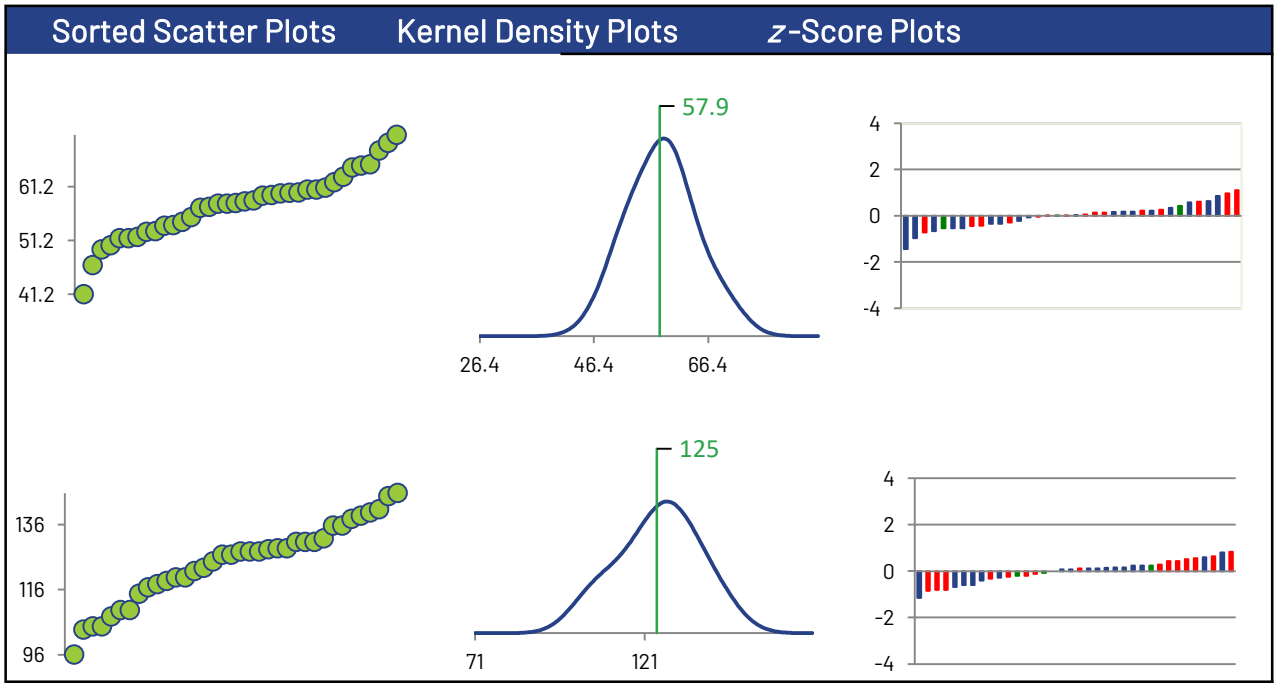
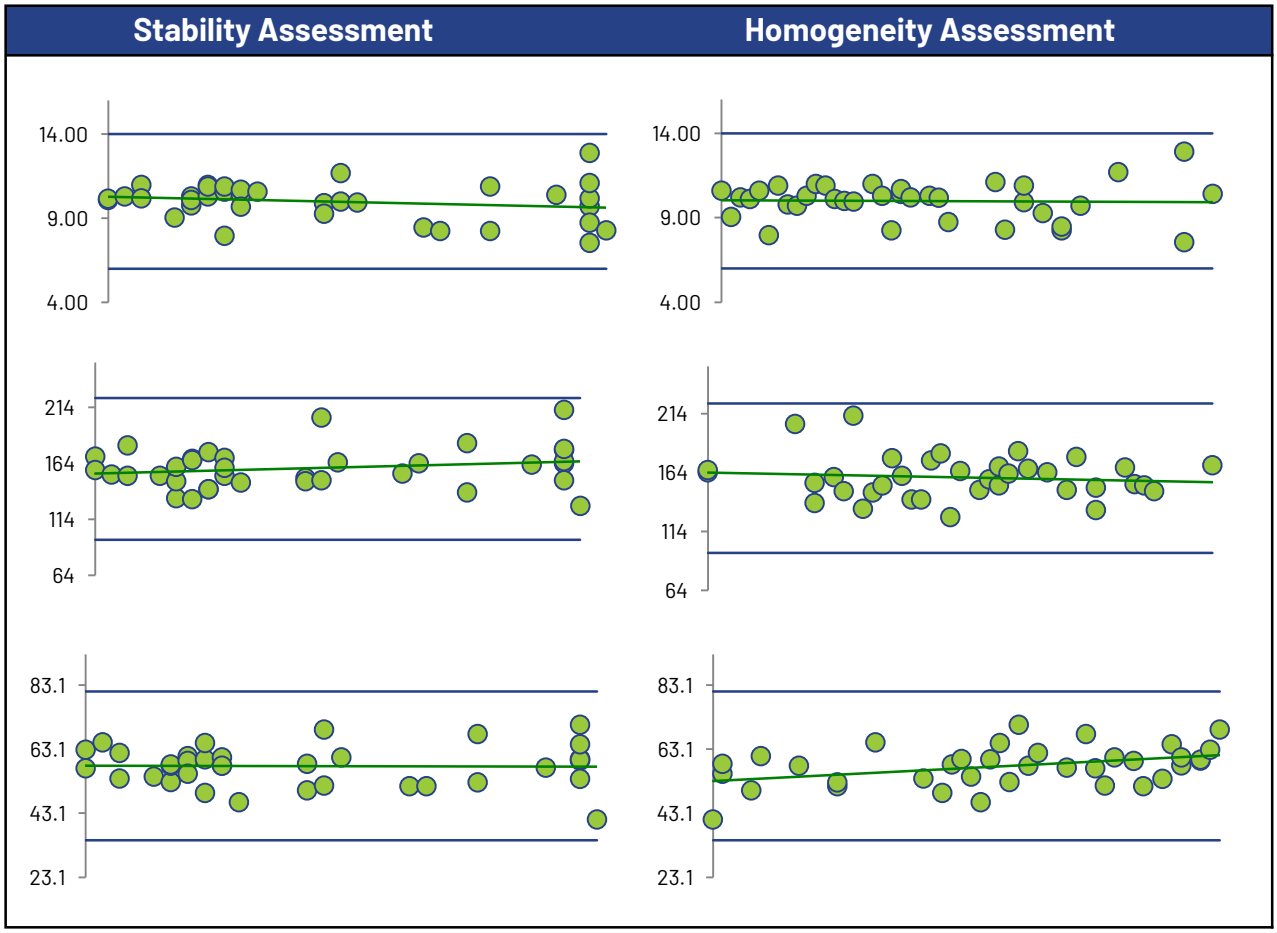
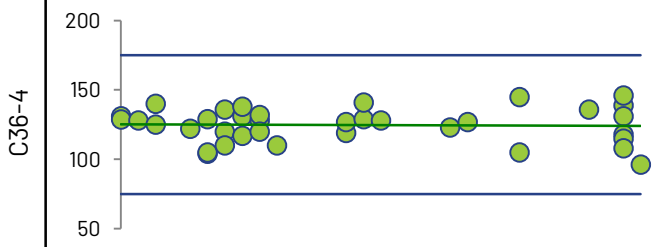
1,1-Dichloroethane



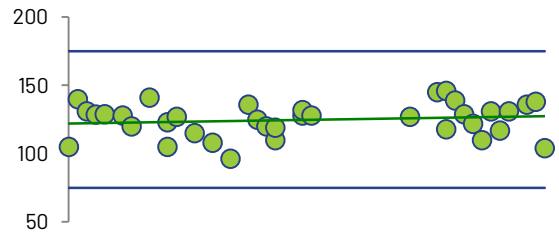


1,1-Dichloroethane

Stability Assessment



Homogeneity Assessment



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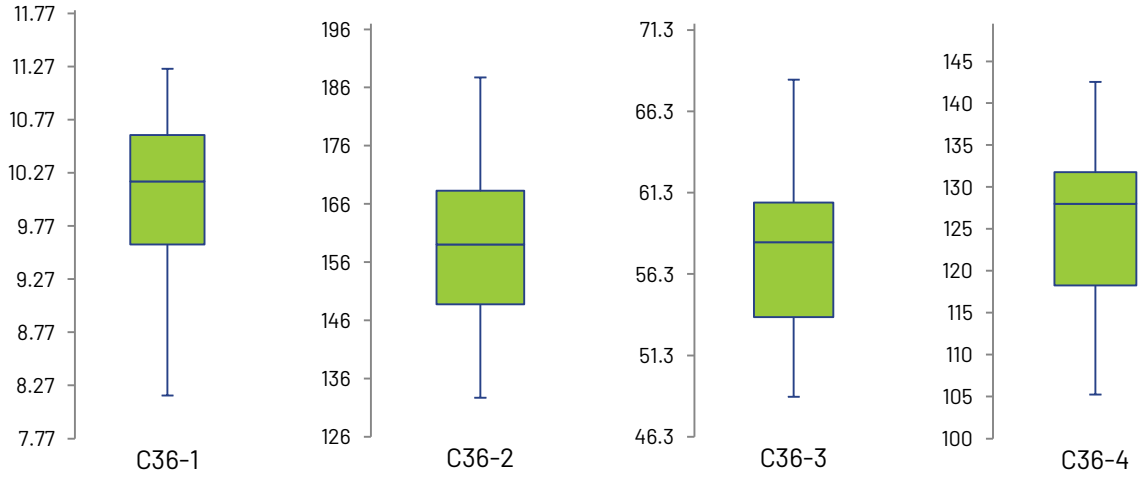
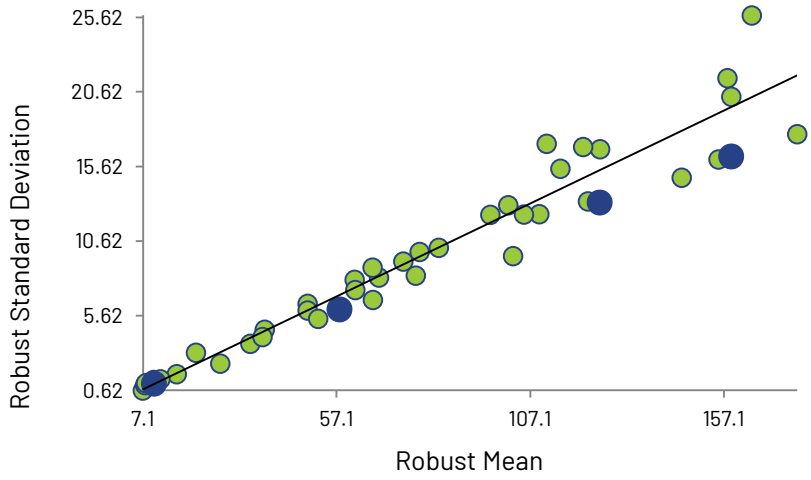
Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,1-dichloroethylene

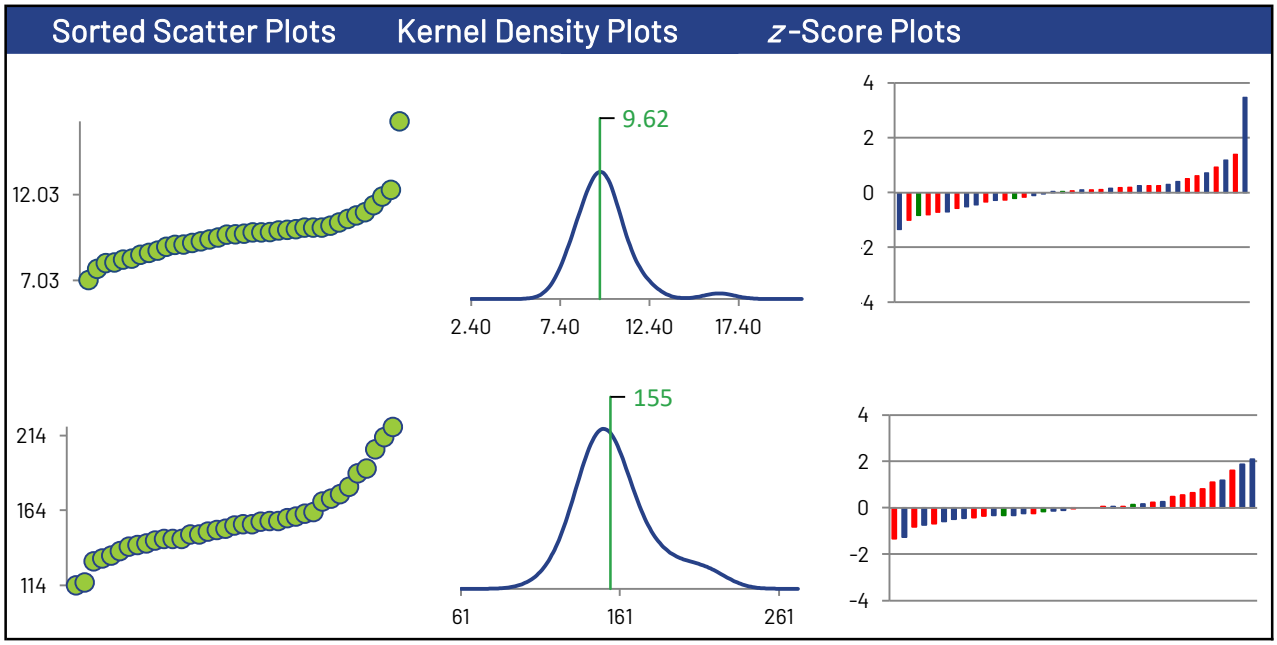
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.74	154	55.5	121
Robust Mean µg/g	9.62	155	55.4	121
Uncdrtainty of the Assigned Value µg/g	0.238	4.05	1.75	3.43
Robust Standard Deviation µg/g	1.16	19.7	8.51	16.7
Regression Standard Deviation µg/g	1.92	31.0	11.1	24.2
Stability Flag				
Homogeneity Flag			Homogeneity	
Standard Deviation Used (SDPA) µg/g	1.92	31.0	14.1	24.2
Flagged Outliers	0	0	0	0
|z|>3.0	1	0	0	0
2<|z|<3	0	1	1	1
Failure Rate %*	2.7			

Methods Used

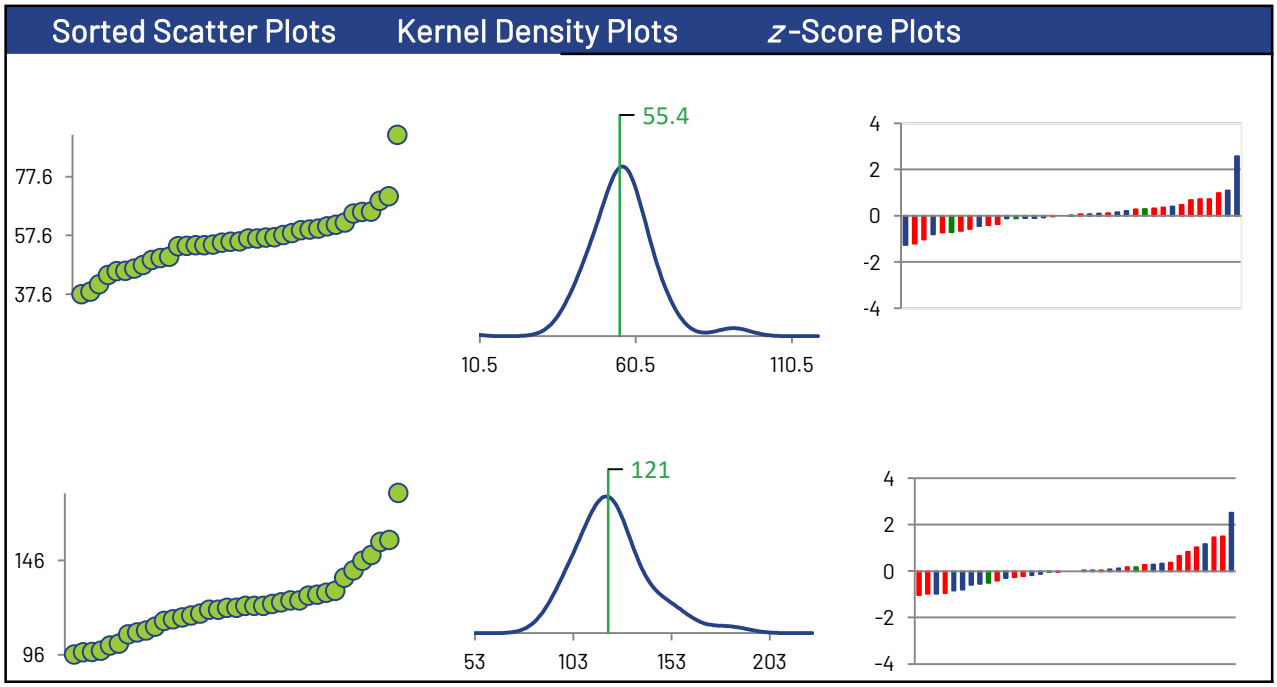
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	16	16	16	16
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS (Green)	3	3	3	3

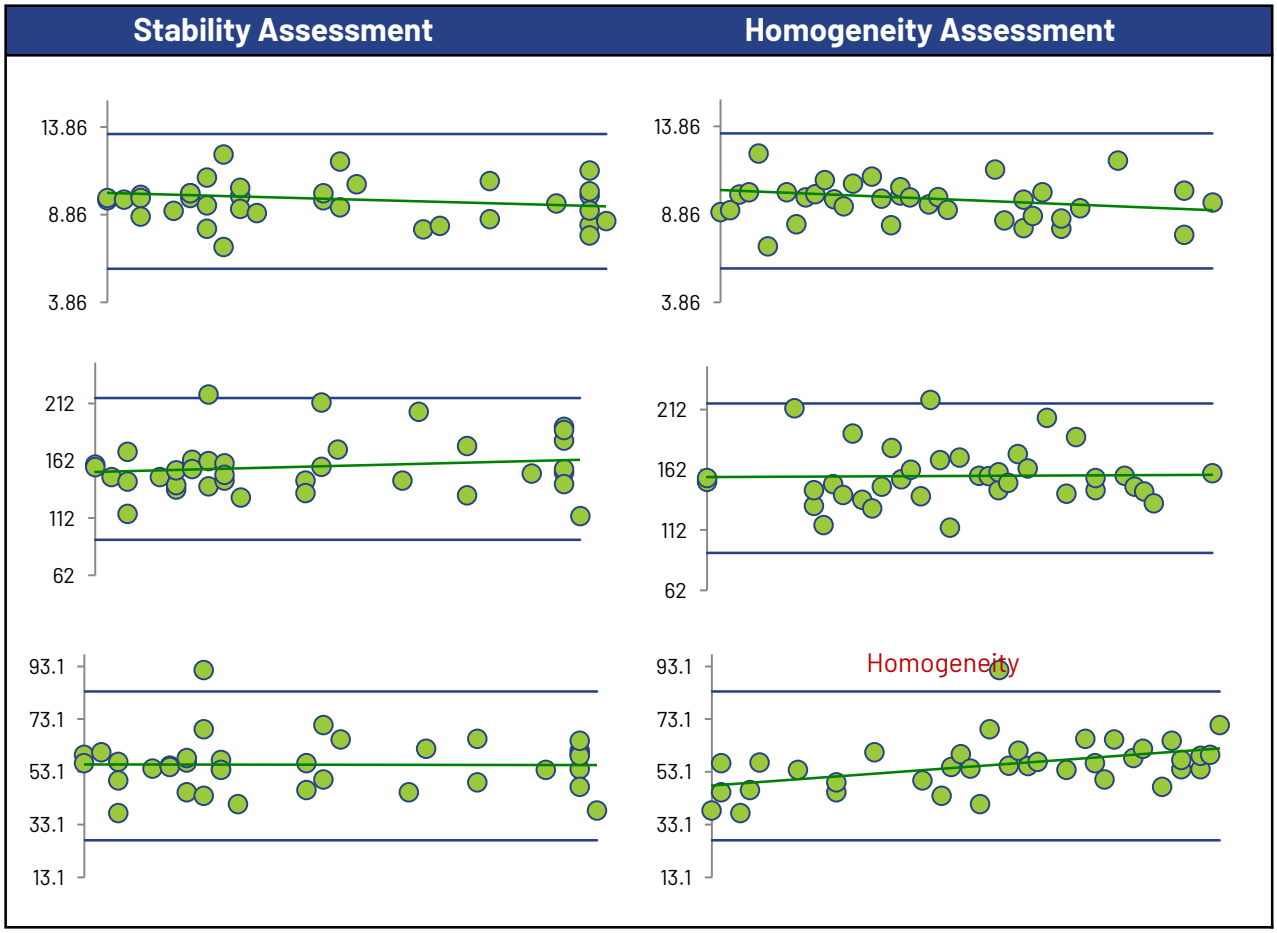
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

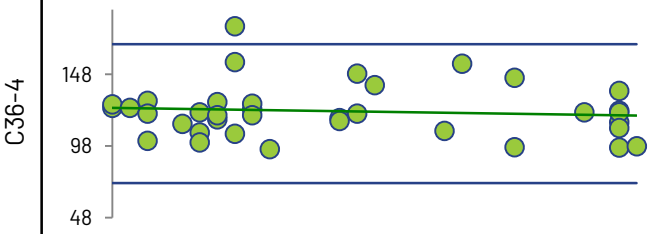
1,1-dichloroethylene



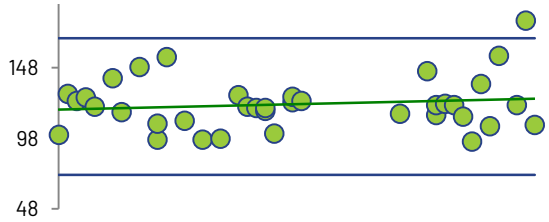


1,1-dichloroethylene

Stability Assessment



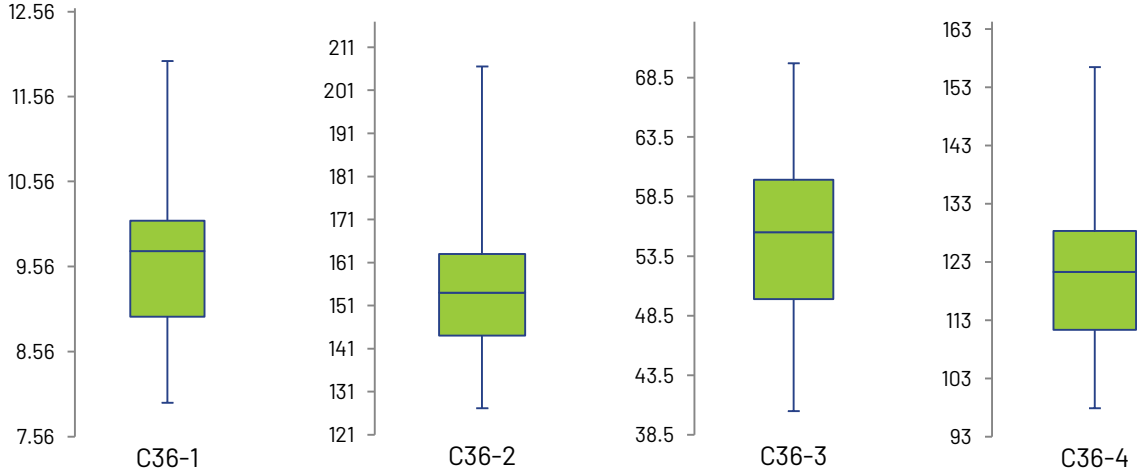
Homogeneity Assessment



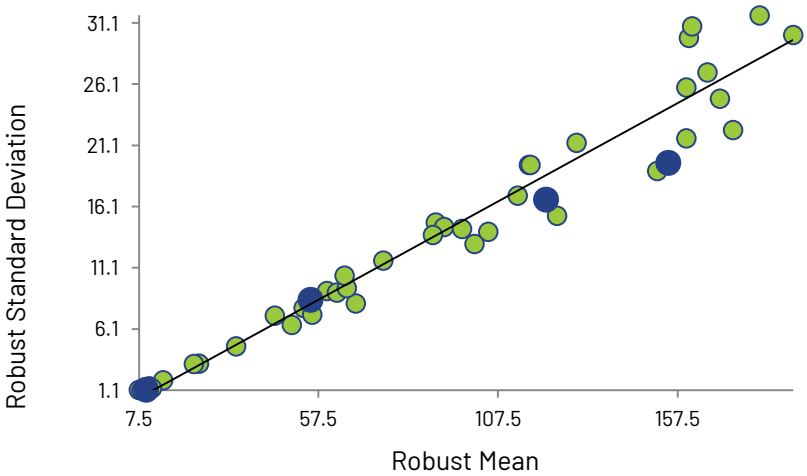
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,2-Dichlorobenzene

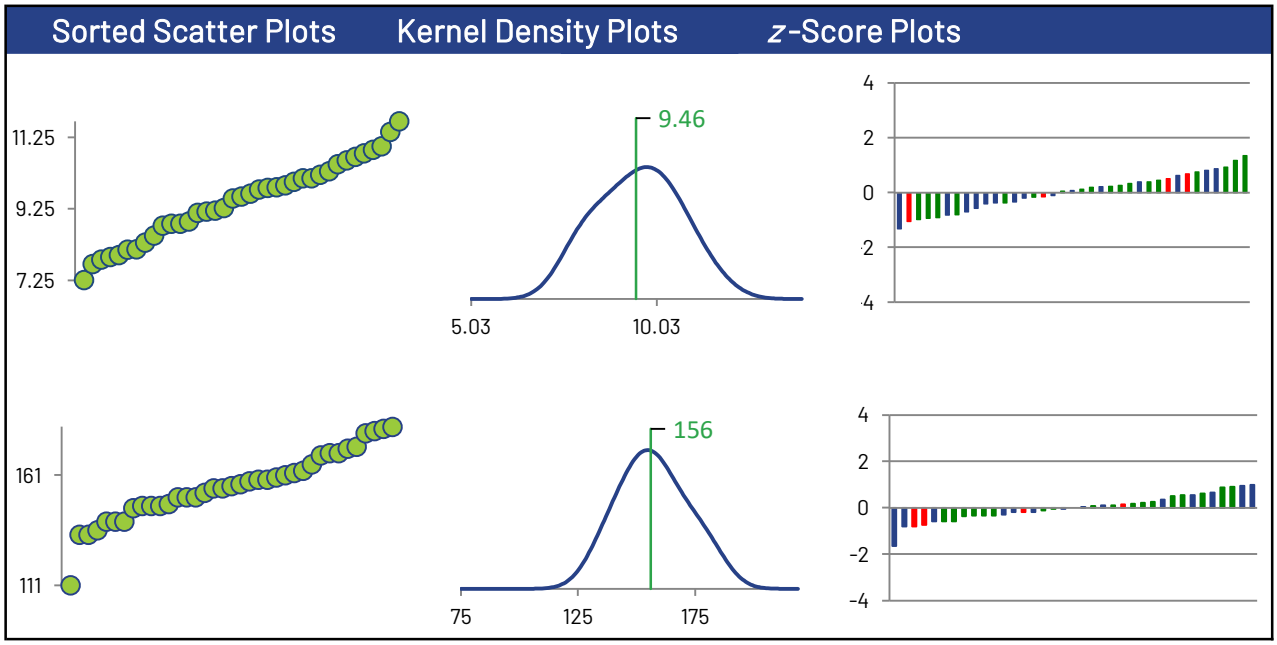
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.59	156	56.6	124
Robust Mean µg/g	9.46	156	56.1	124
Uncdrtainty of the Assigned Value µg/g	0.251	3.25	1.60	2.90
Robust Standard Deviation µg/g	1.22	15.8	7.80	14.1
Regression Standard Deviation µg/g	1.66	27.4	9.82	21.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.66	27.4	9.82	21.6
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

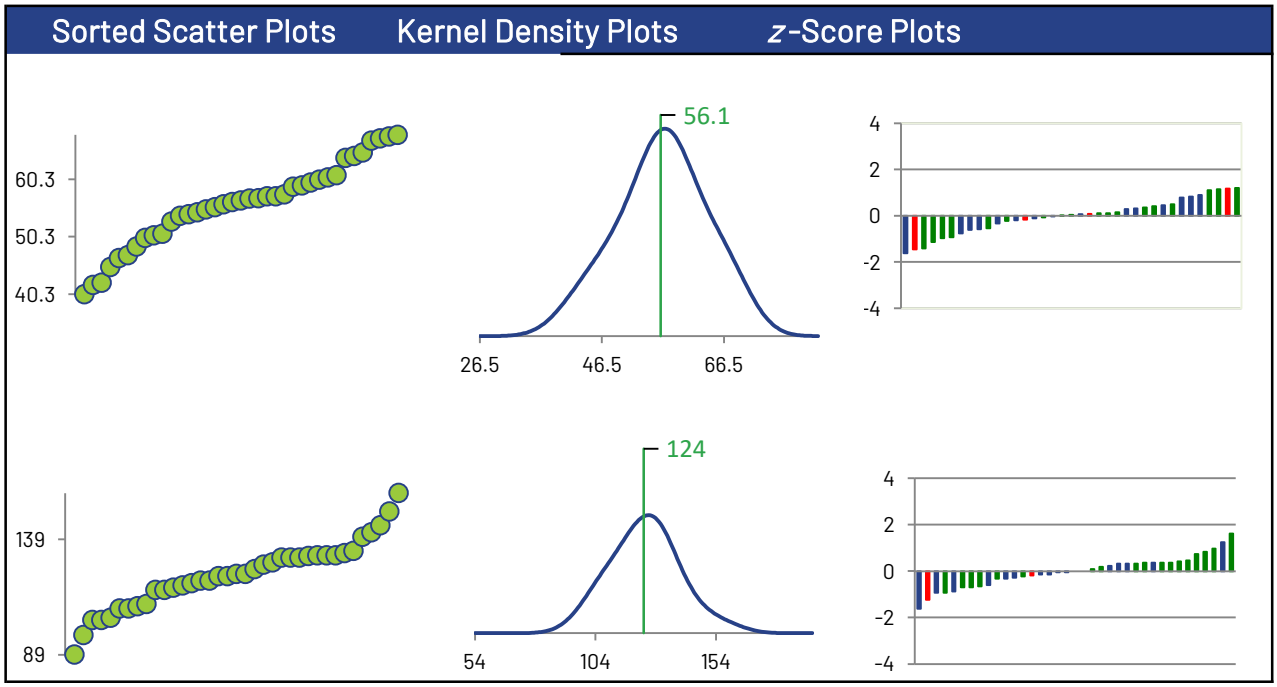
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS (Red)	4	4	4	4
GC/MS - PURGE AND TRAP (Green)	18	18	18	18

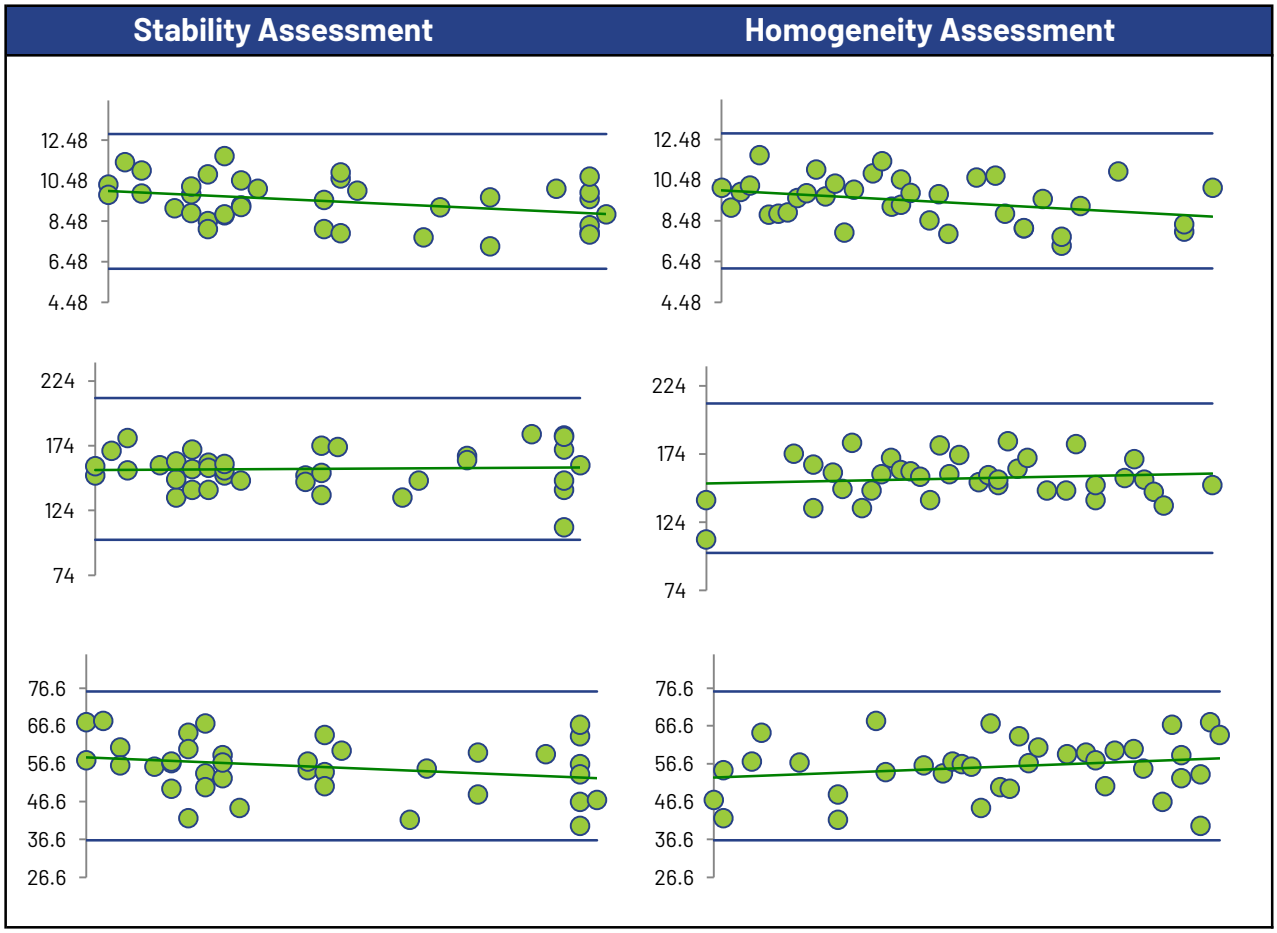
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

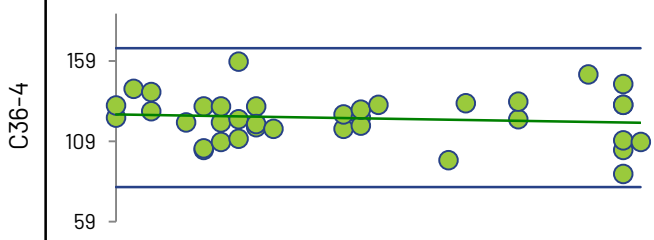
1,2-Dichlorobenzene



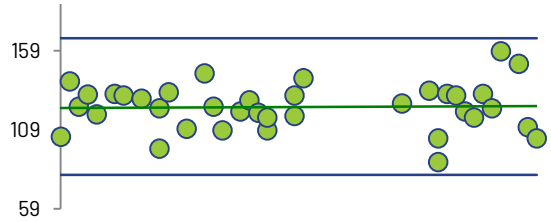


1,2-Dichlorobenzene

Stability Assessment



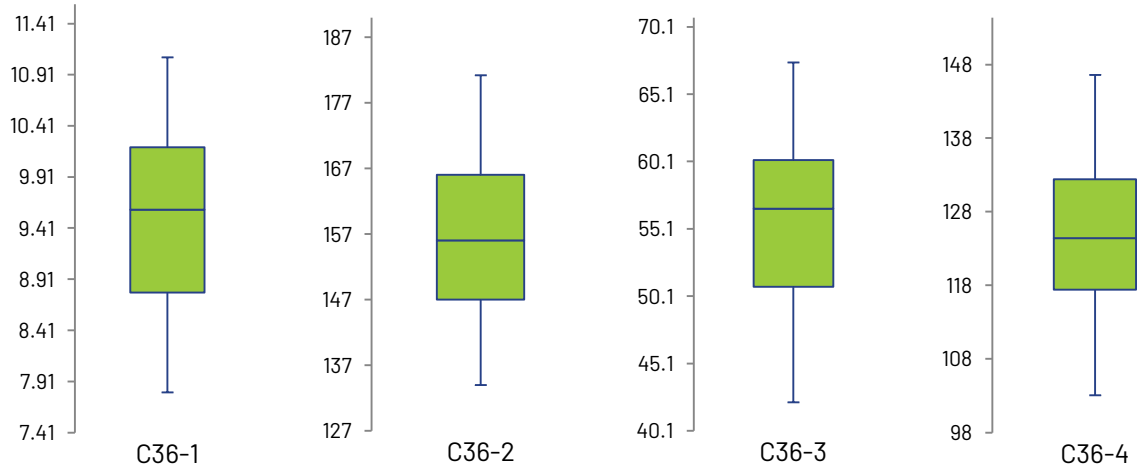
Homogeneity Assessment



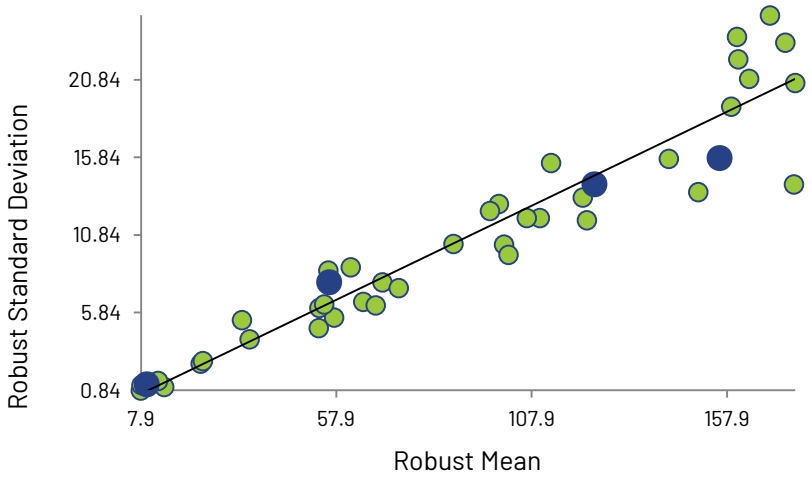
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,2-Dichloroethane

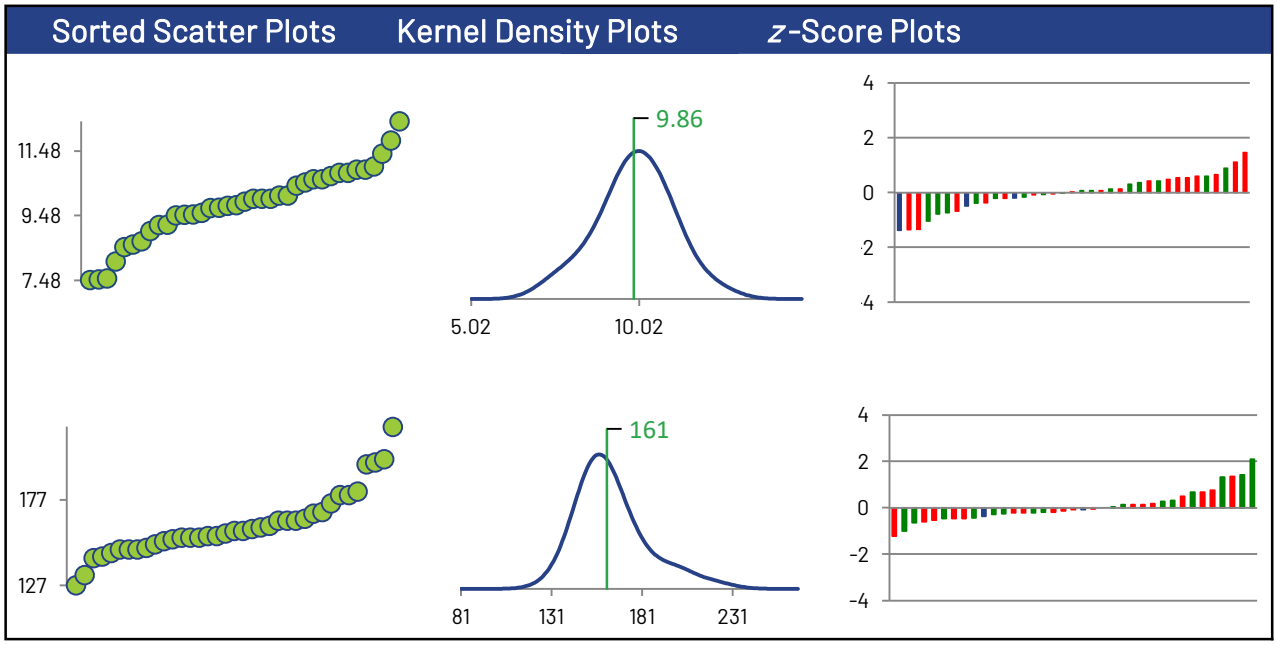
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.91	159	56.8	130
Robust Mean µg/g	9.86	161	56.5	128
Uncdrtainty of the Assigned Value µg/g	0.224	3.16	1.24	2.71
Robust Standard Deviation µg/g	1.09	15.4	6.02	13.2
Regression Standard Deviation µg/g	1.73	28.1	9.88	22.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.73	28.1	9.88	22.4
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	1	0	0
Failure Rate %*	0.0			

Methods Used

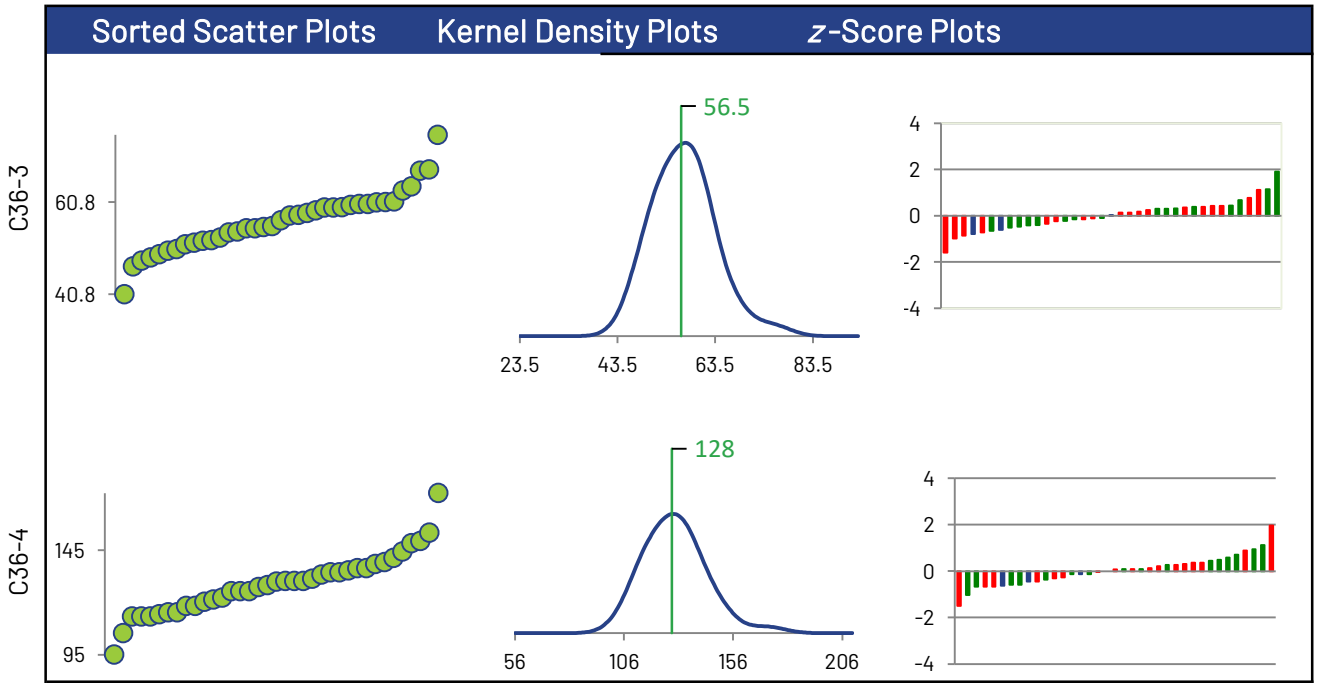
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	16	16	16	16

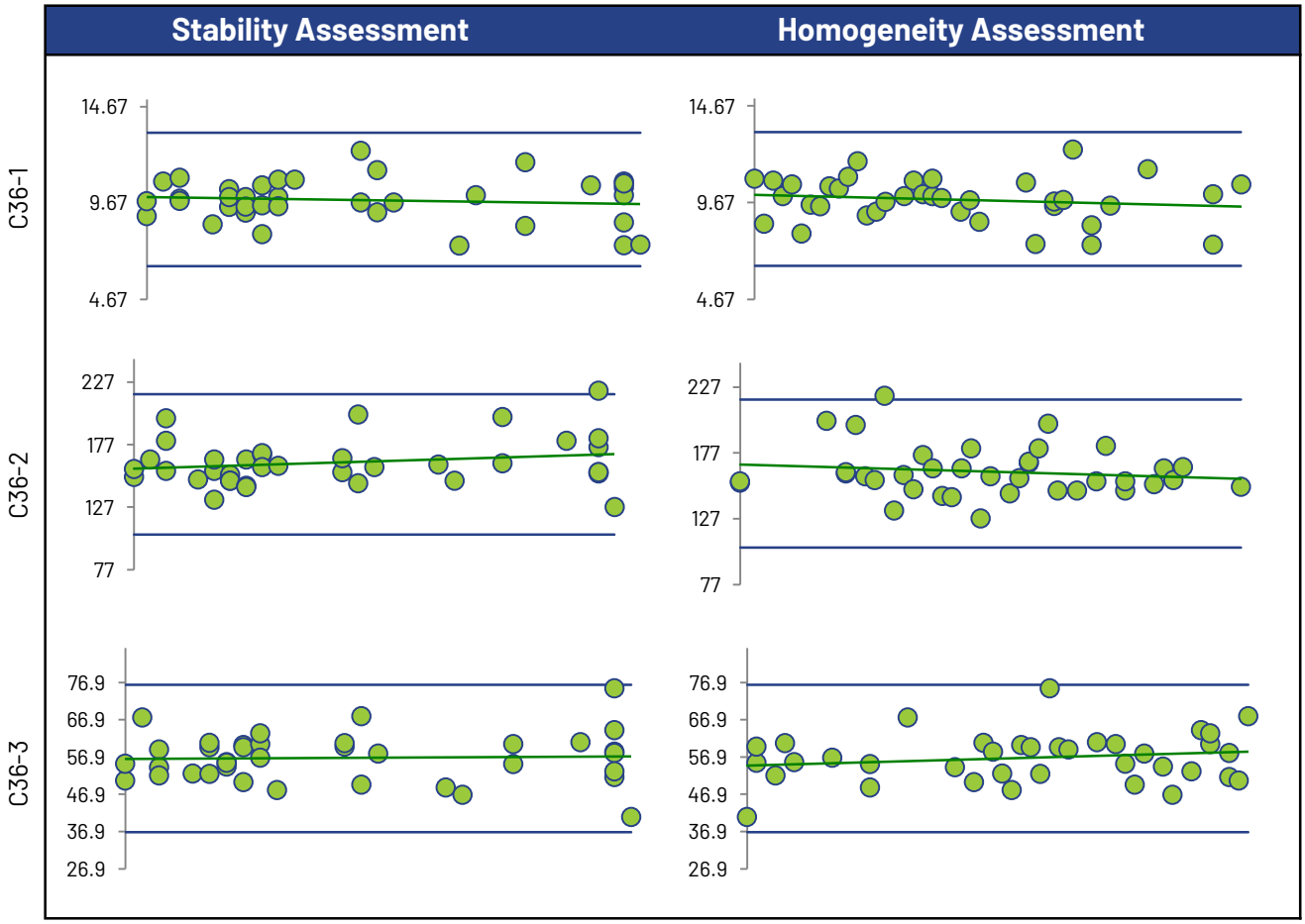
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

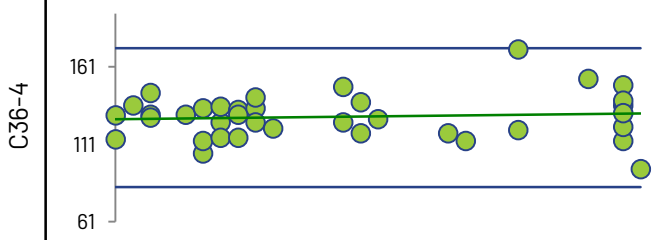
1,2-Dichloroethane



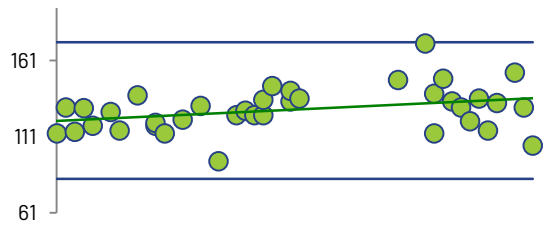


1,2-Dichloroethane

Stability Assessment



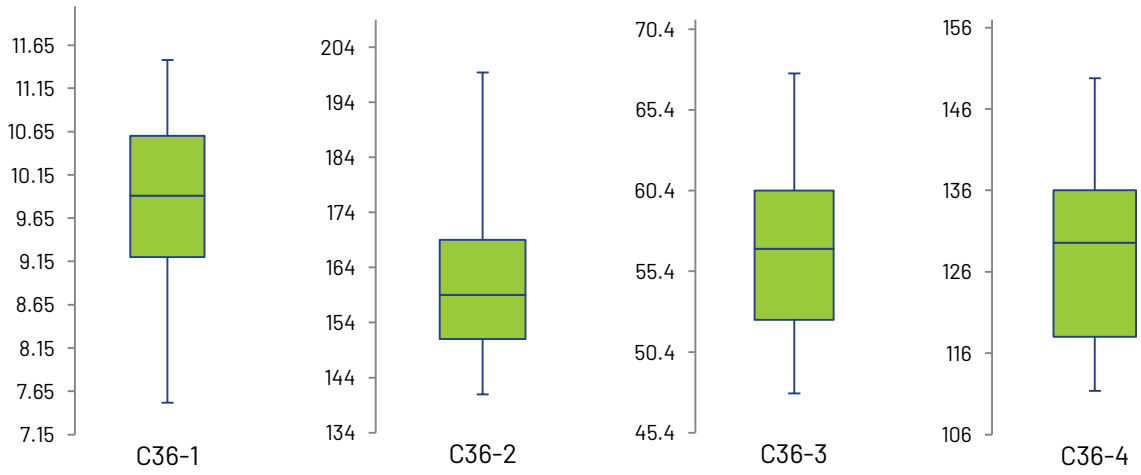
Homogeneity Assessment



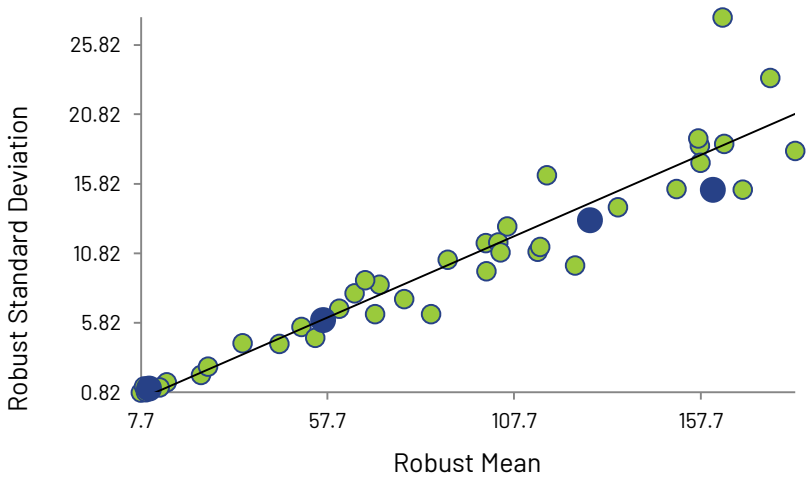
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,2-Dichloropropane

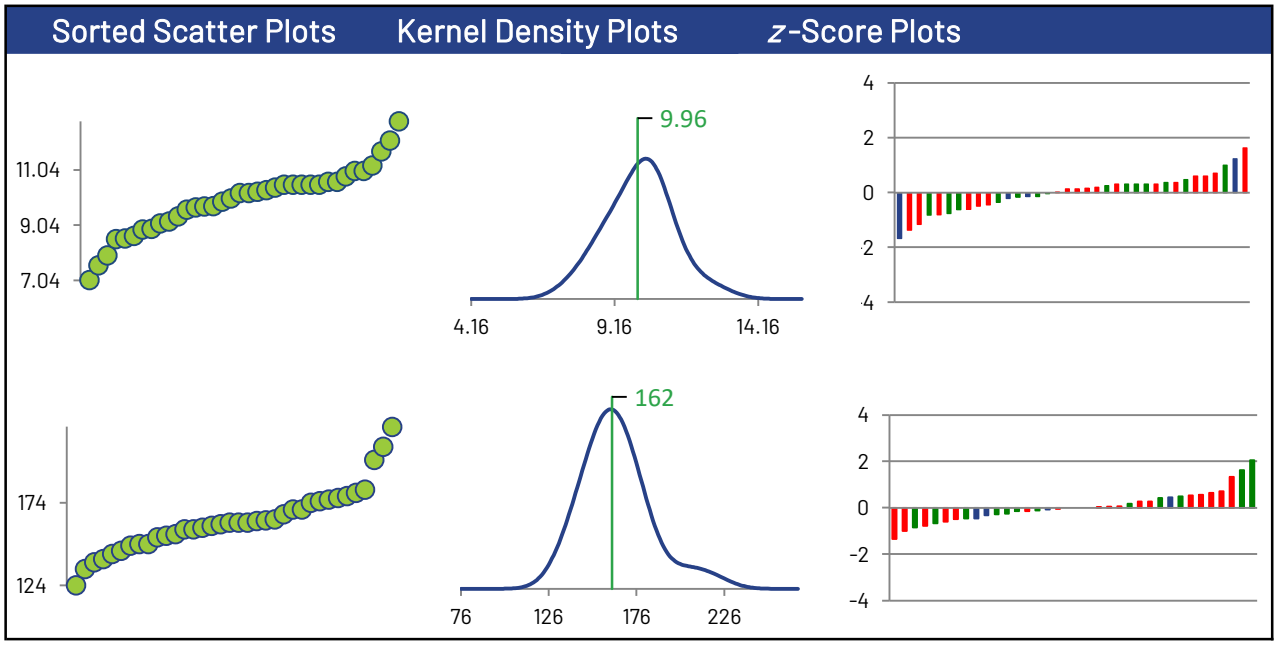
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	10.2	162	56.1	130
Robust Mean µg/g	9.96	162	55.8	130
Uncdrtainty of the Assigned Value µg/g	0.233	3.44	1.22	2.69
Robust Standard Deviation µg/g	1.12	16.5	5.85	12.9
Regression Standard Deviation µg/g	1.74	28.3	9.76	22.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.74	28.3	9.76	22.7
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	1	0	0
Failure Rate %*	0.0			

Methods Used

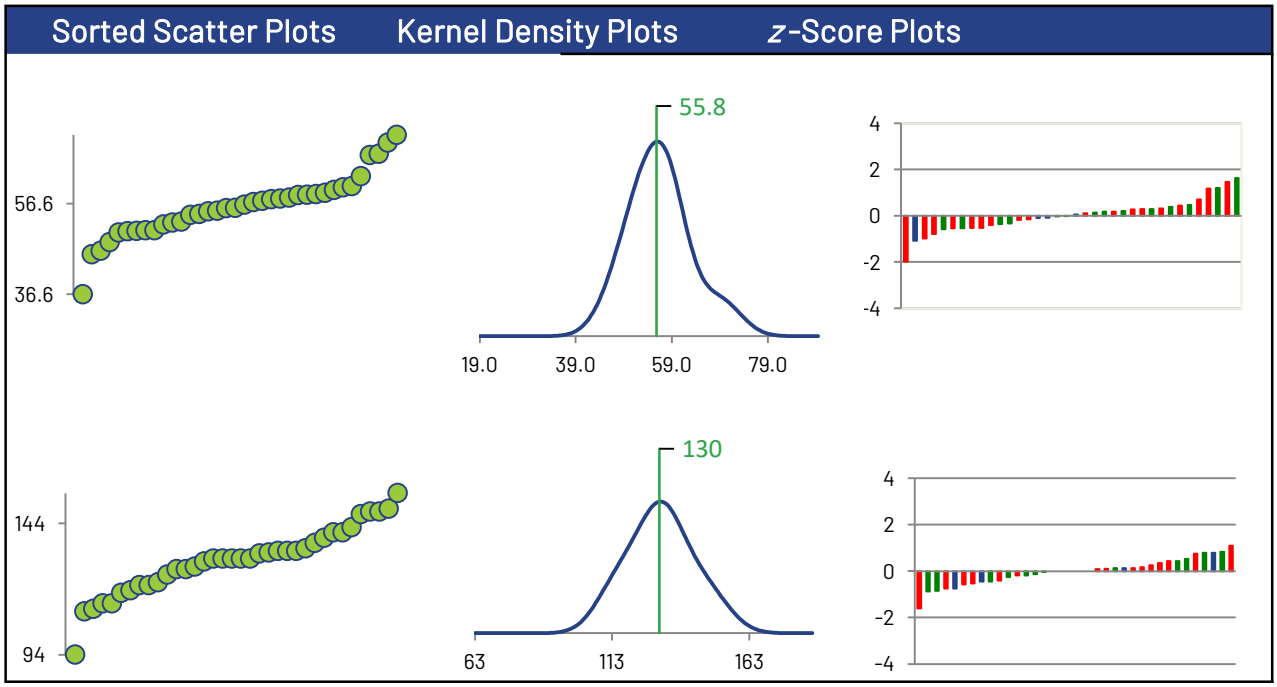
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	4	4	4	4
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	14	14	14	14

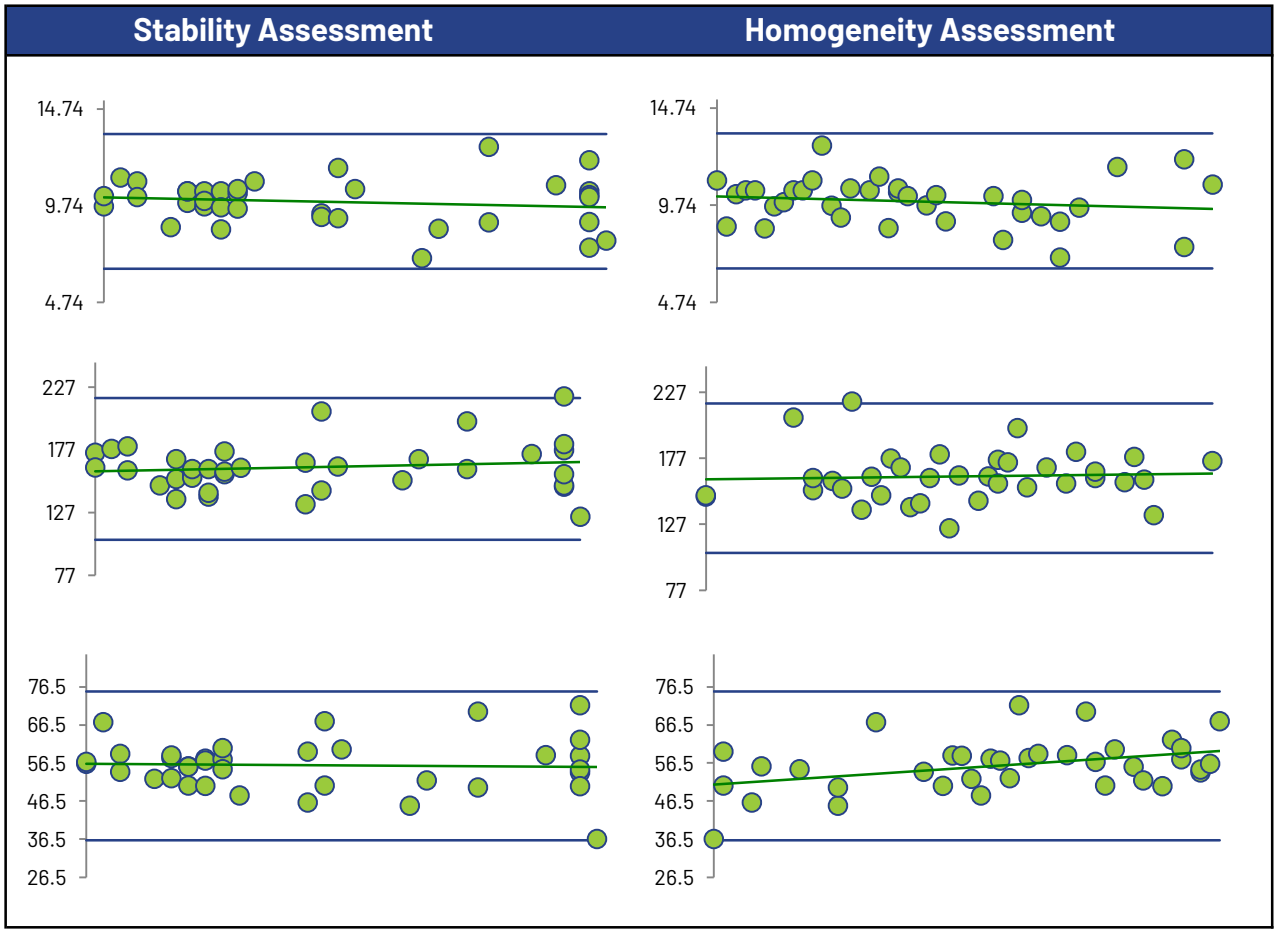
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

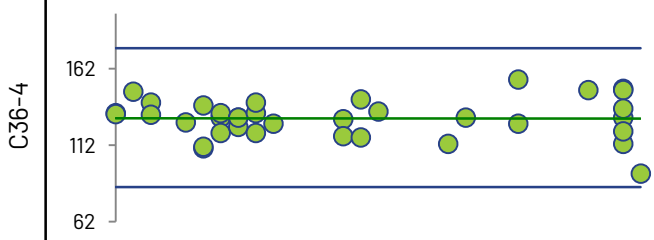
1,2-Dichloropropane



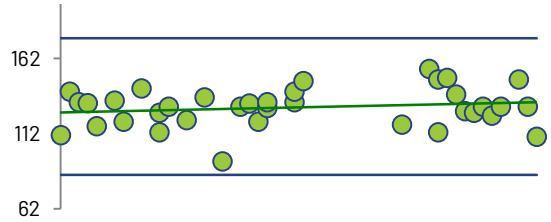


1,2-Dichloropropane

Stability Assessment



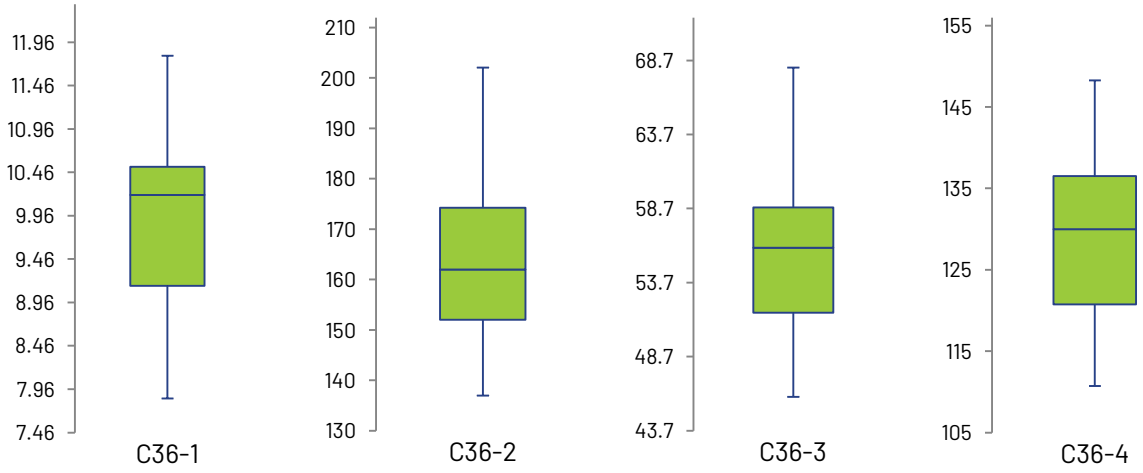
Homogeneity Assessment



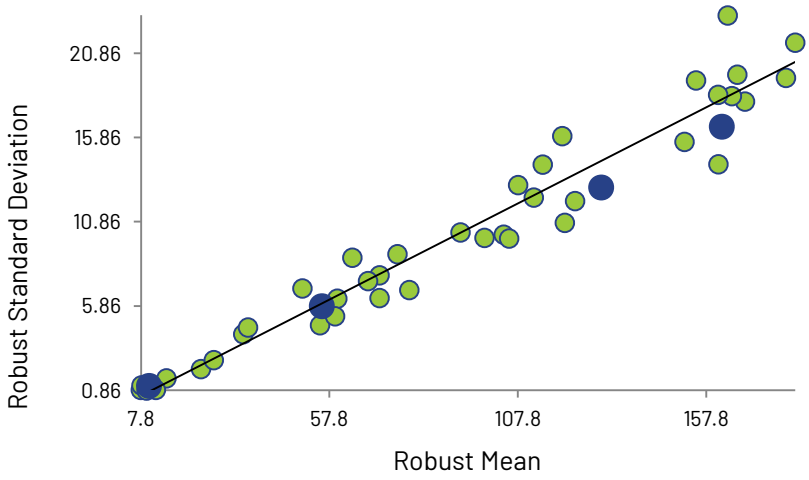
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,3-Dichlorobenzene

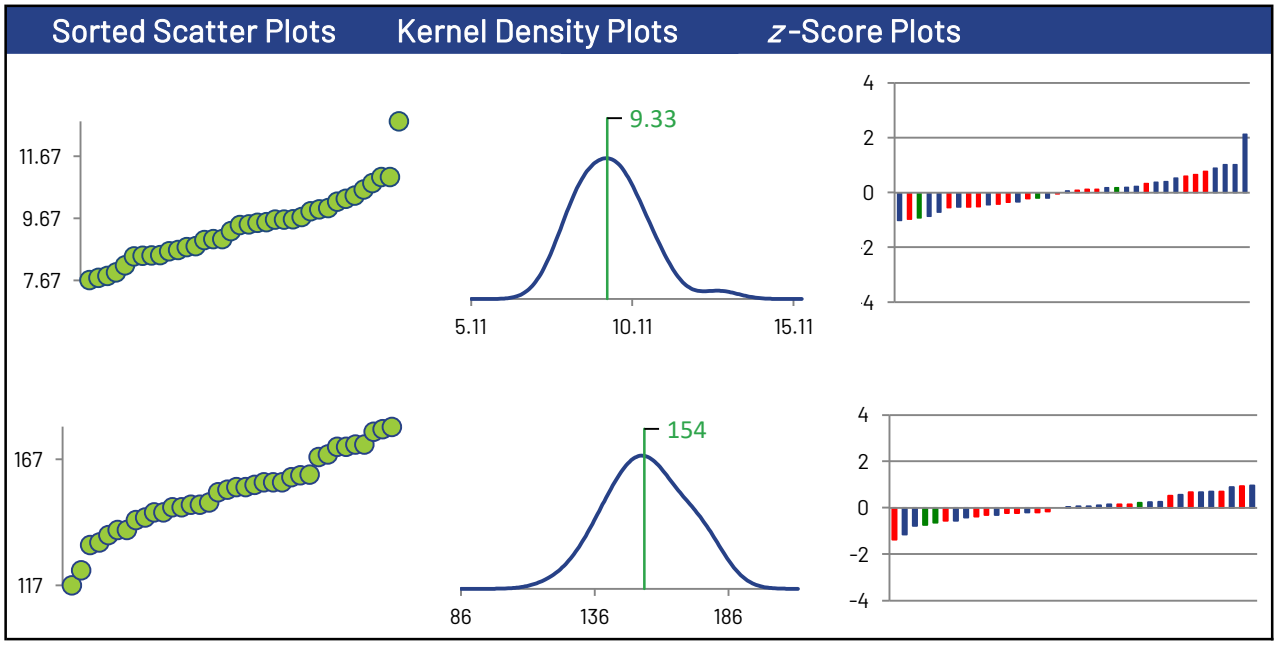
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	9.46	156	53.9	123
Robust Mean µg/g	9.33	154	53.4	121
Uncdrtainty of the Assigned Value µg/g	0.227	3.31	1.39	2.83
Robust Standard Deviation µg/g	1.09	15.9	6.65	13.6
Regression Standard Deviation µg/g	1.63	27.0	9.35	21.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.63	27.0	9.35	21.2
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	0	1	1
Failure Rate %*	0.0			

Methods Used

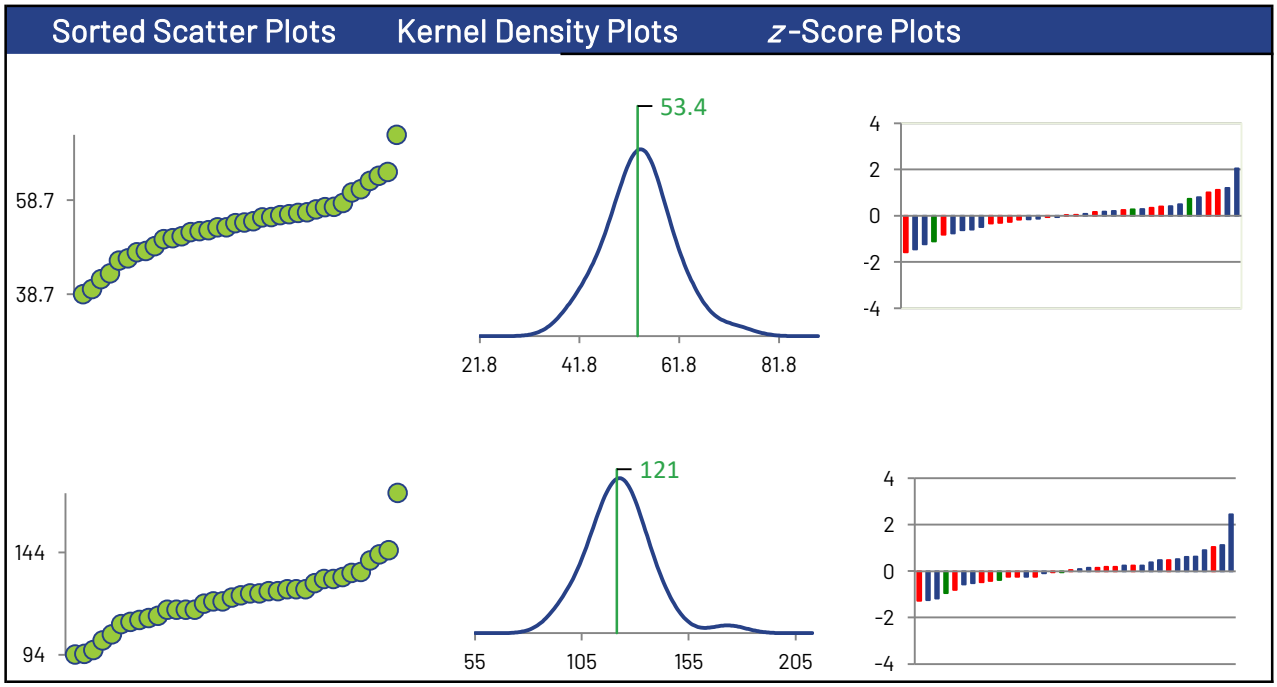
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	3	3	3	3

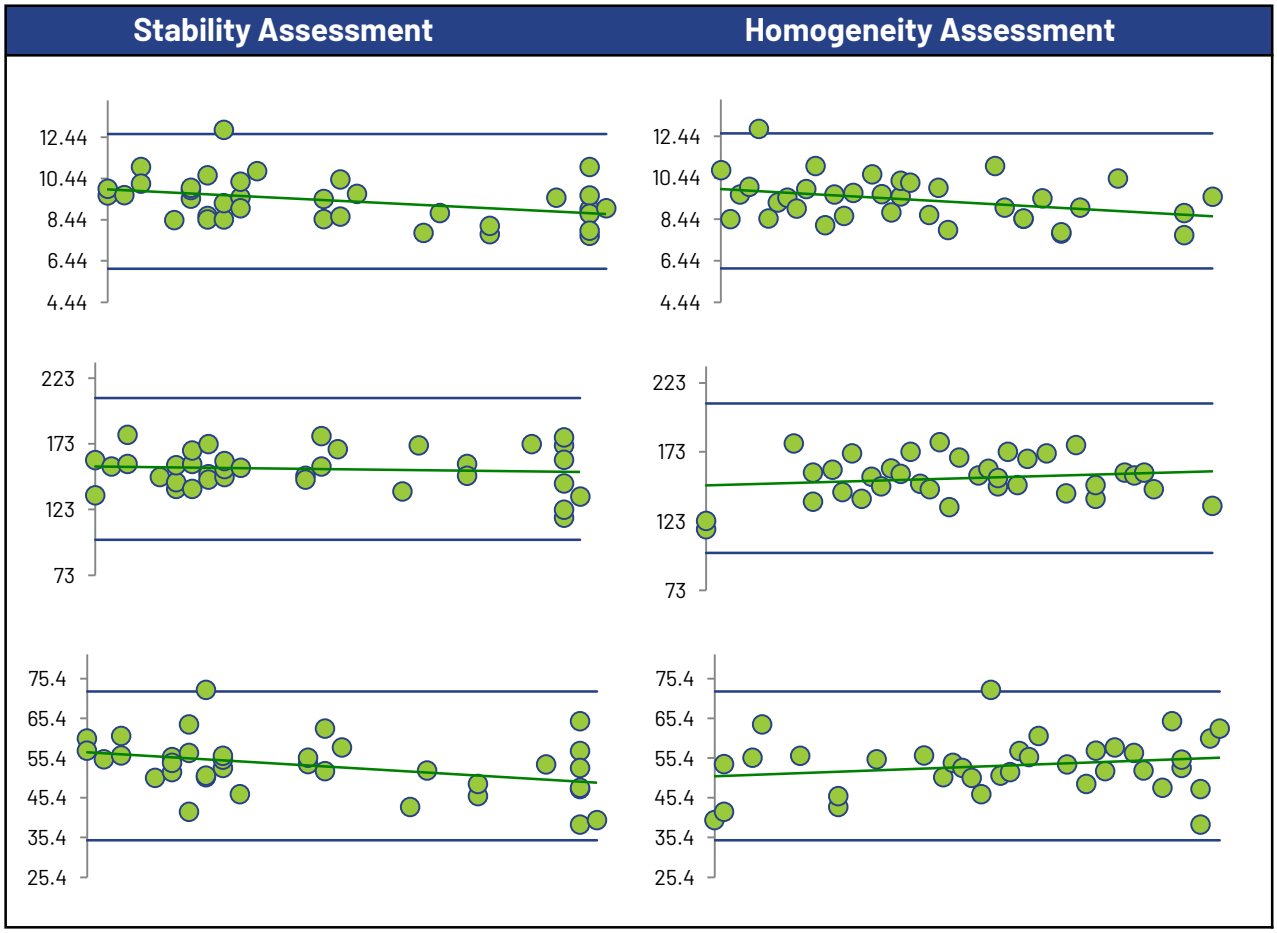
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

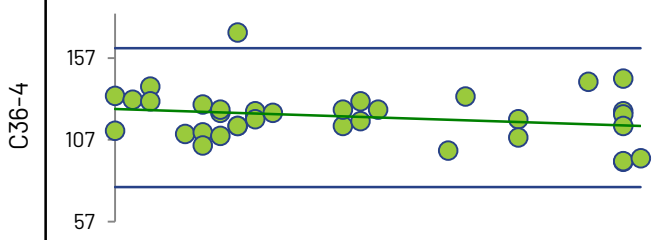
1,3-Dichlorobenzene



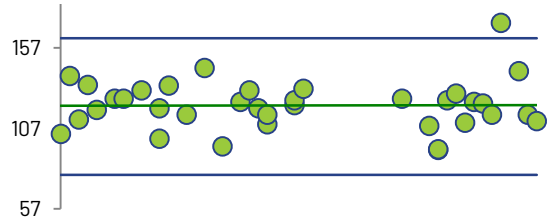


1,3-Dichlorobenzene

Stability Assessment



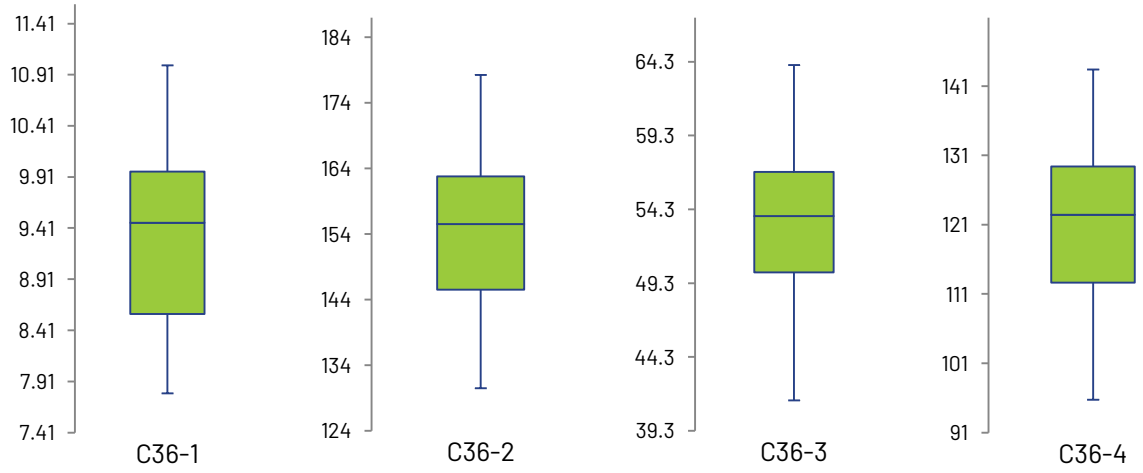
Homogeneity Assessment



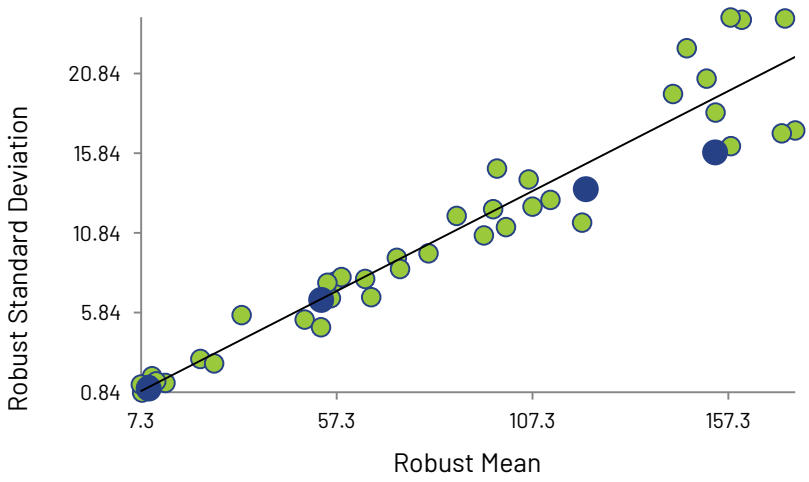
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



1,4-Dichlorobenzene

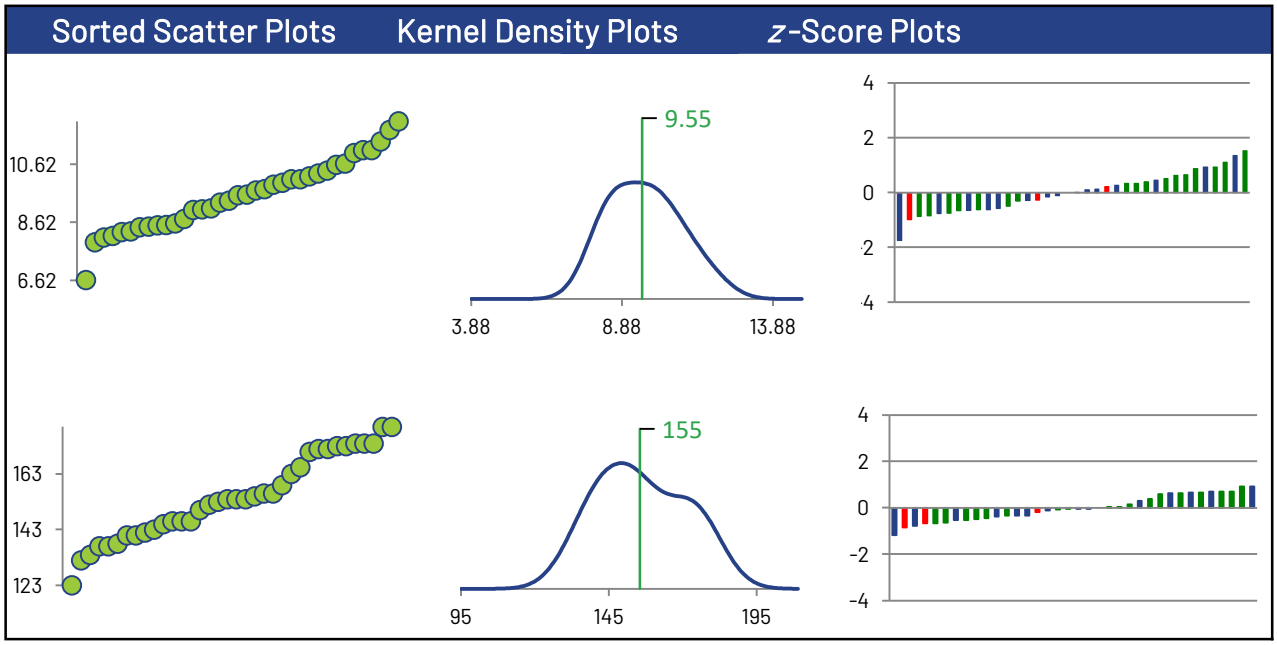
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	9.56	154	56.9	121
Robust Mean µg/g	9.55	155	56.1	122
Uncdrtainty of the Assigned Value µg/g	0.260	3.48	1.61	3.02
Robust Standard Deviation µg/g	1.25	16.7	7.72	14.5
Regression Standard Deviation µg/g	1.67	27.1	9.81	21.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.67	27.1	9.81	21.4
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

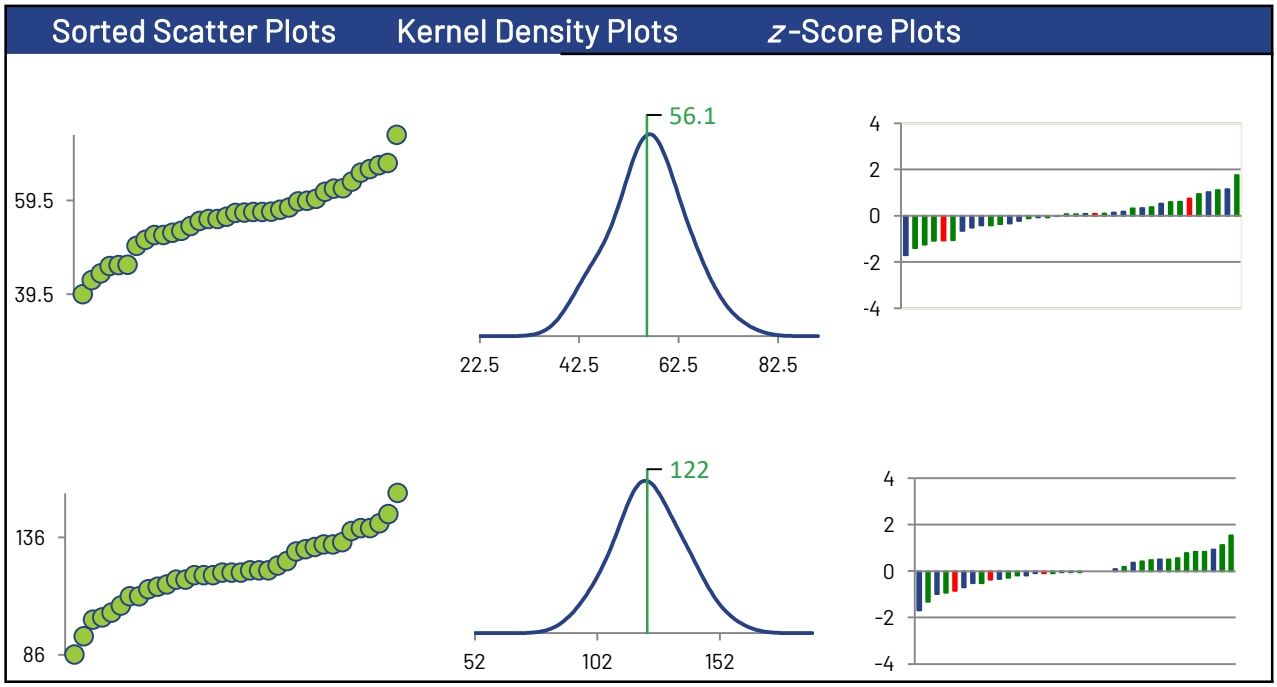
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS (Red)	3	3	3	3
GC/MS - PURGE AND TRAP (Green)	18	18	18	18

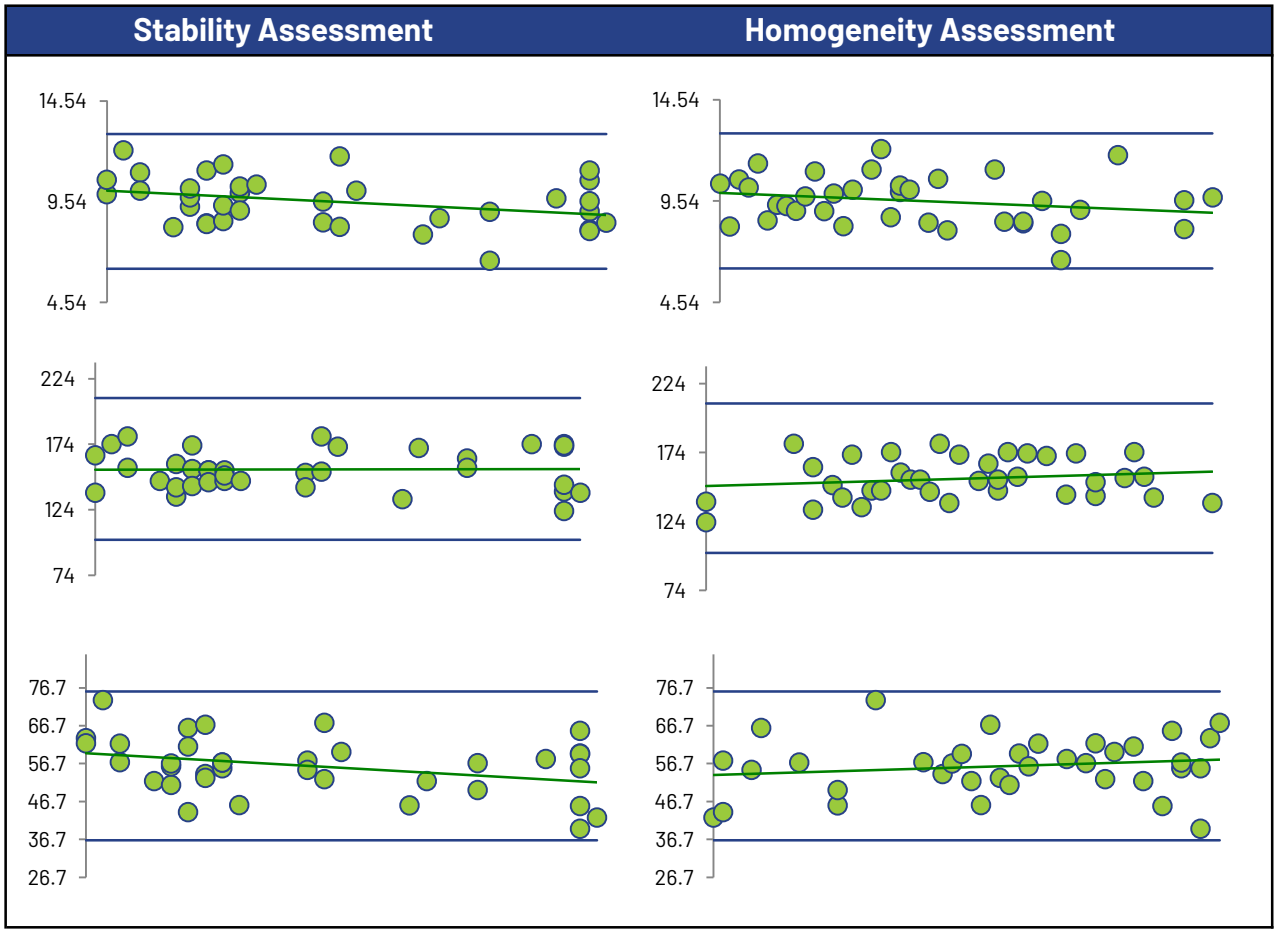
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

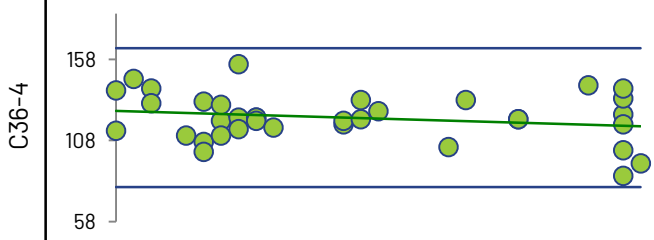
1,4-Dichlorobenzene



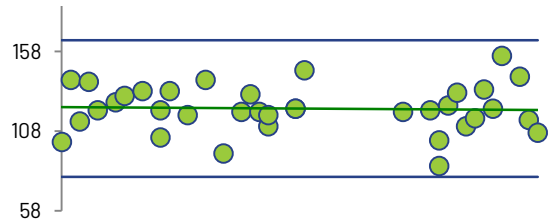


1,4-Dichlorobenzene

Stability Assessment



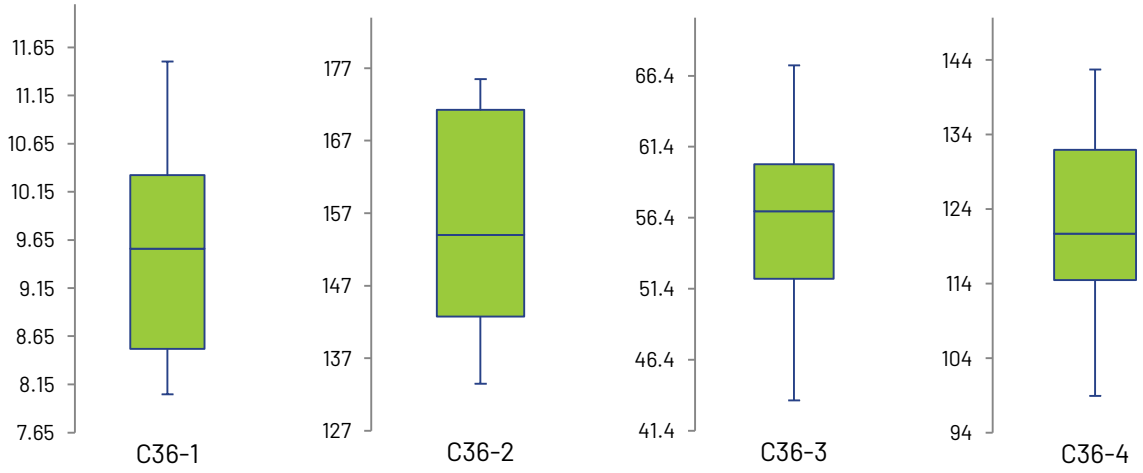
Homogeneity Assessment



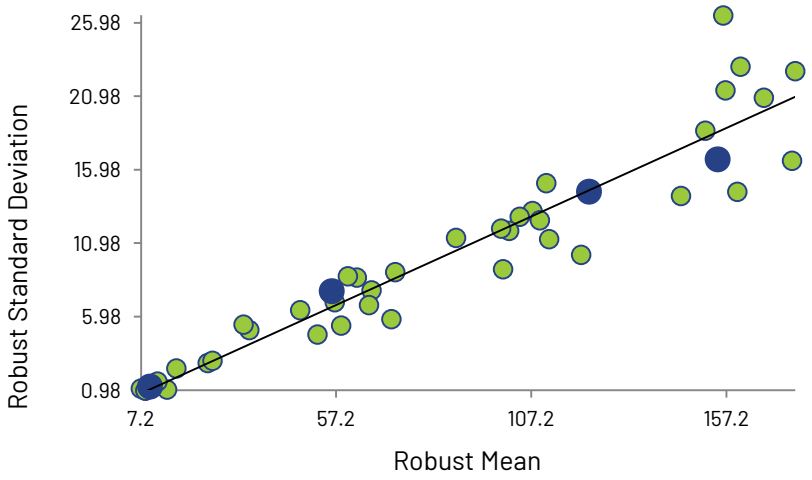
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Acetone (2-Propanone)

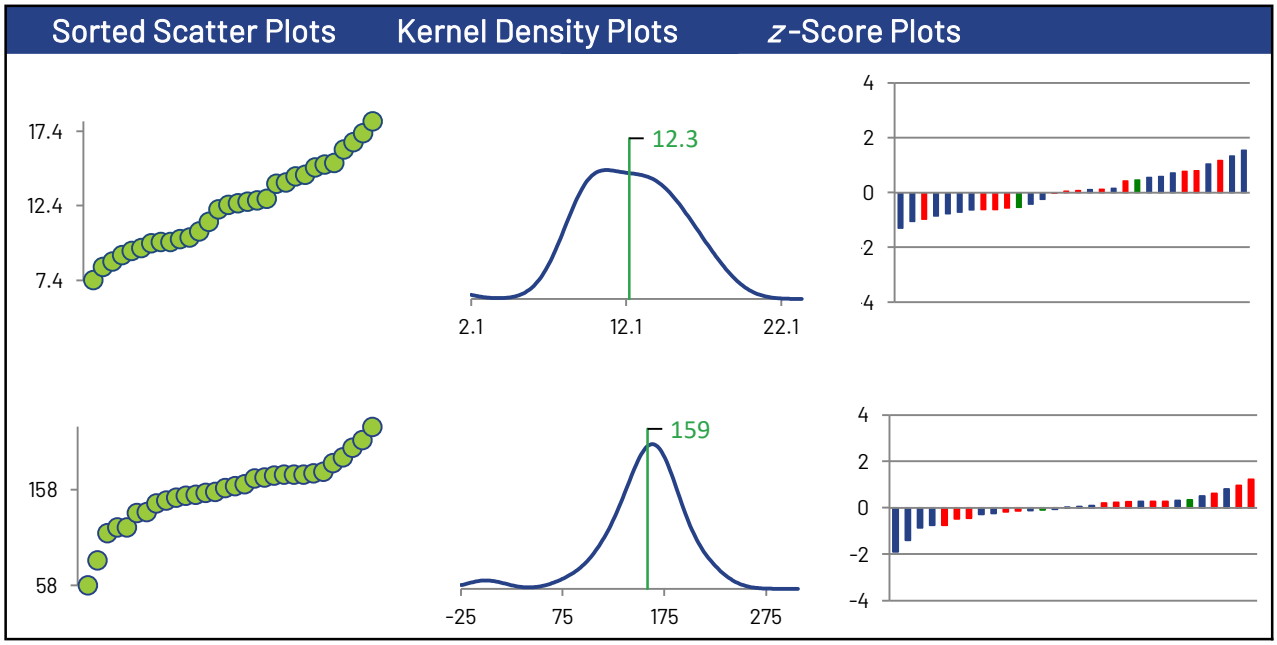
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	30	30	31	31
Median µg/g	12.6	161	58.2	127
Robust Mean µg/g	12.3	159	59.9	126
Uncdrtainty of the Assigned Value µg/g	0.721	6.91	2.74	5.37
Robust Standard Deviation µg/g	3.16	30.3	12.2	23.9
Regression Standard Deviation µg/g	3.73	33.6	13.4	26.9
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) µg/g	3.73	53.2	13.4	26.9
Flagged Outliers	0	1	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	2	2
Failure Rate %*	3.2			

Methods Used

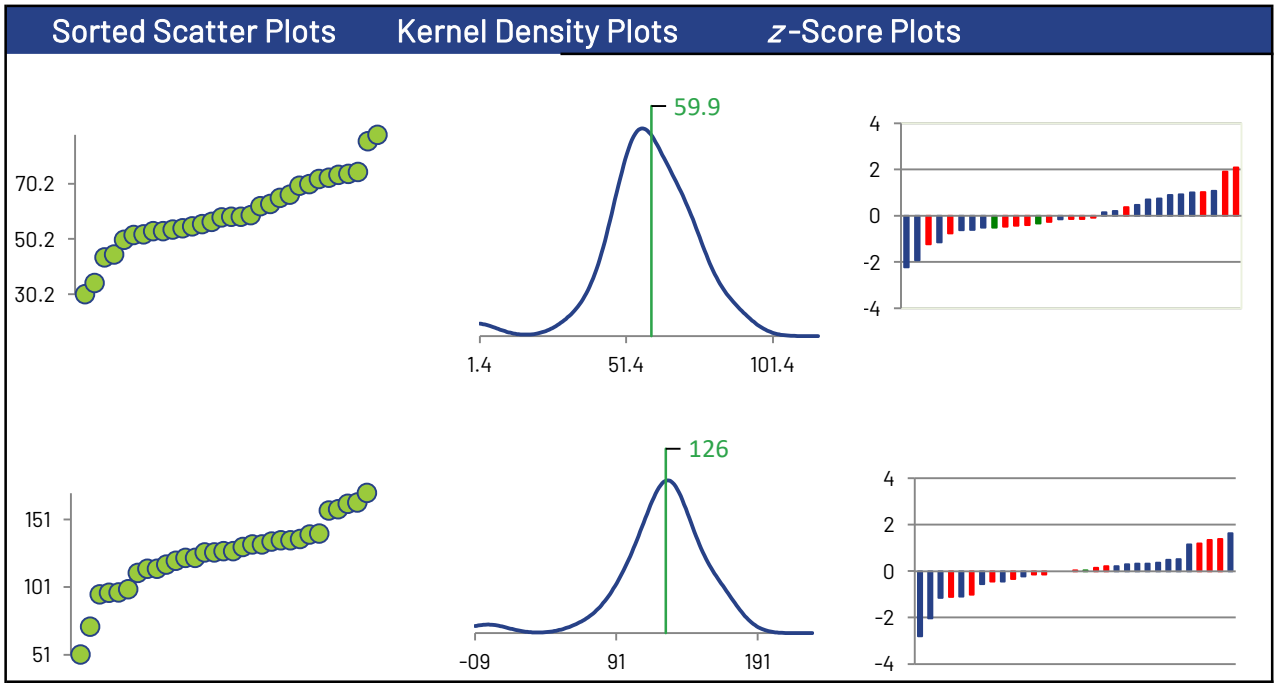
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	16	15	16	16
GC/MS - HEADSPACE (Red)	12	13	13	13
GC/MS (Green)	2	2	2	2

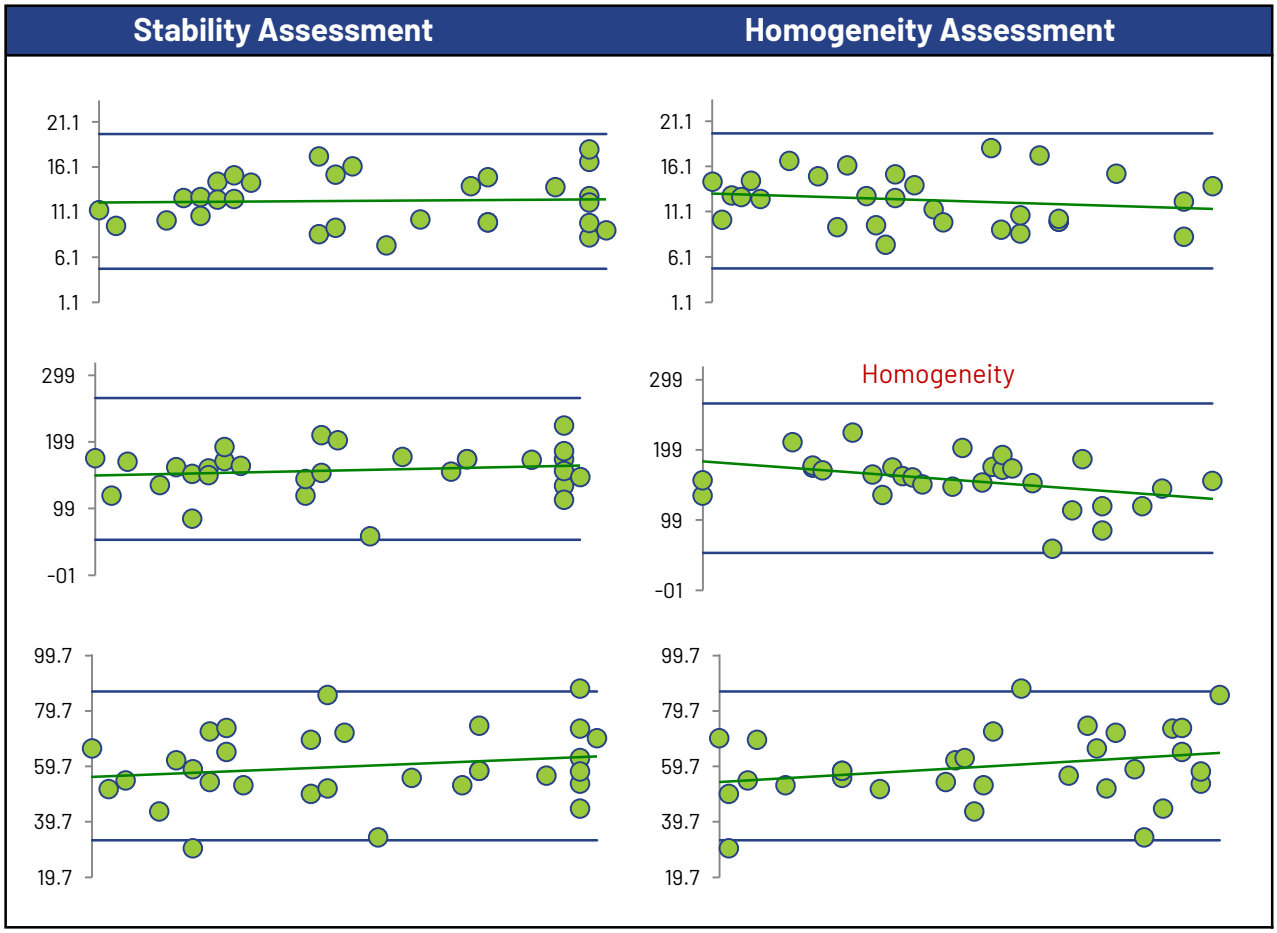
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

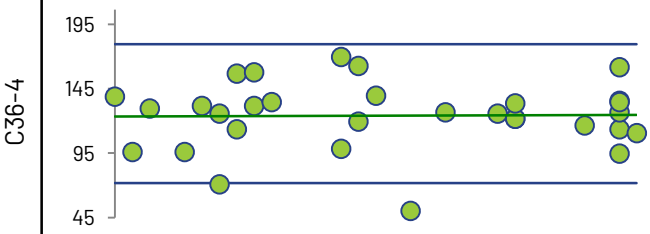
Acetone (2-Propanone)



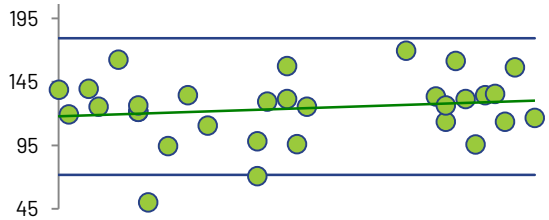


Acetone (2-Propanone)

Stability Assessment



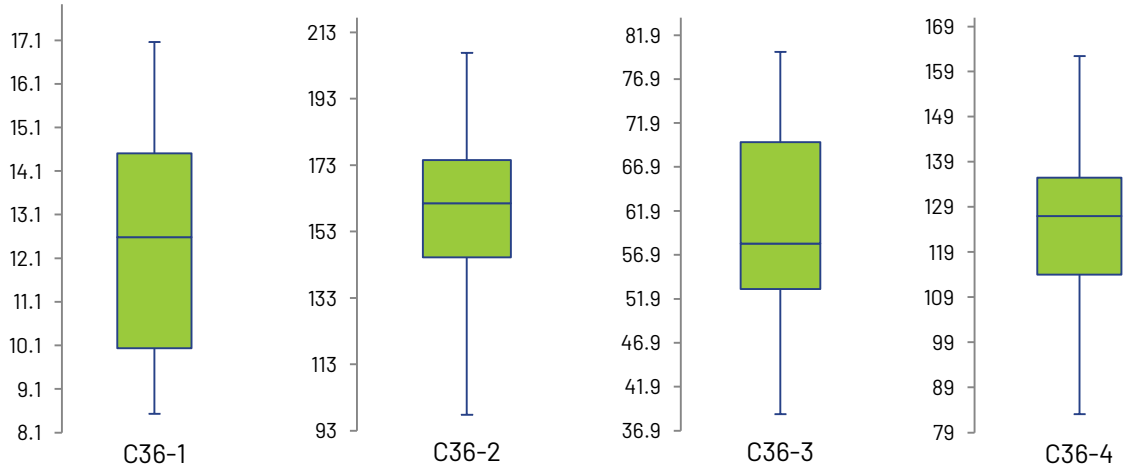
Homogeneity Assessment



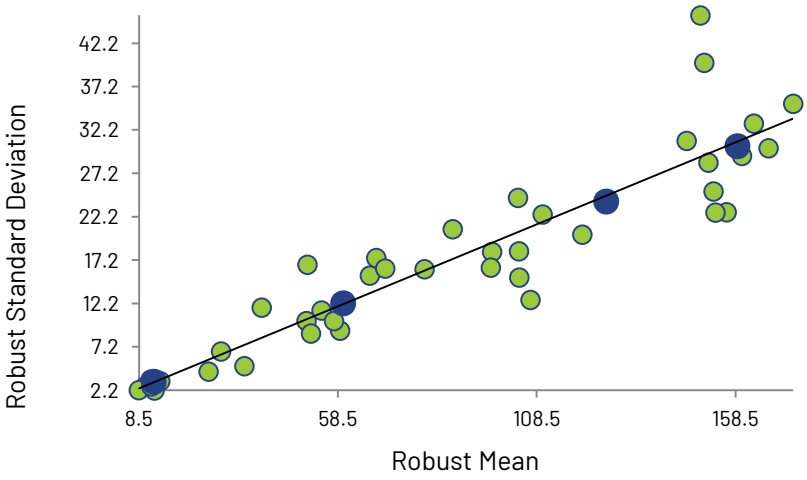
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Benzene

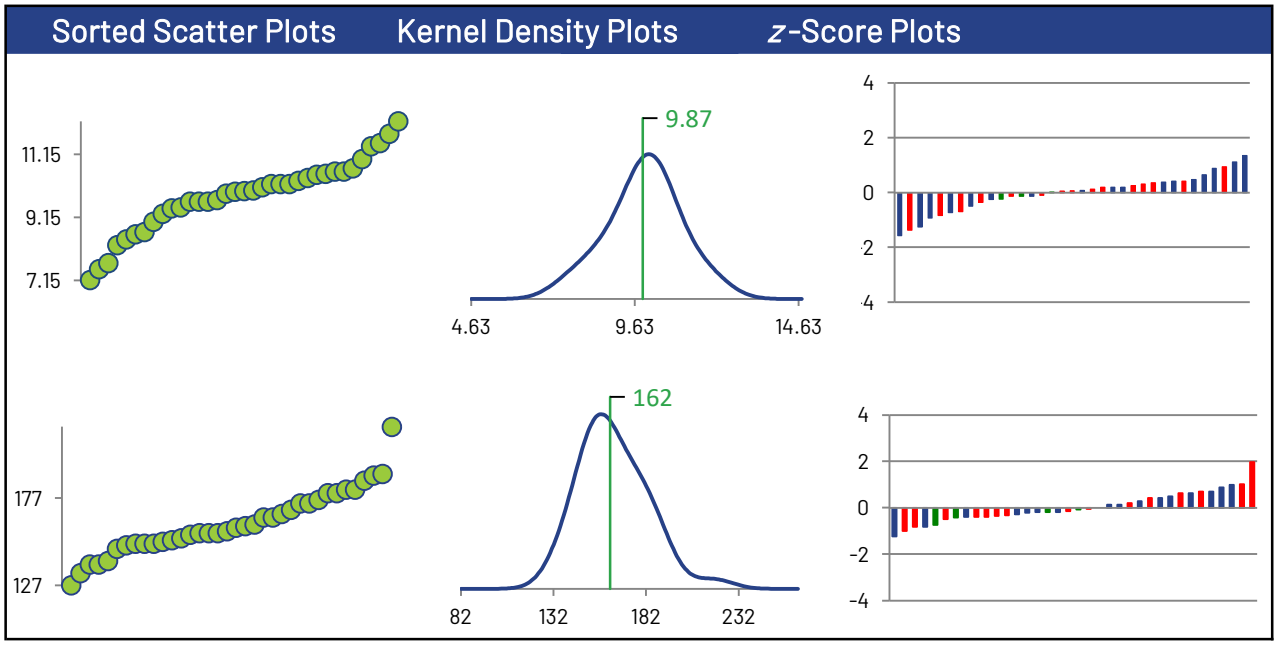
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	35	36	36	36
Median µg/g	9.98	159	57.2	129
Robust Mean µg/g	9.87	162	57.4	127
Uncdrtainty of the Assigned Value µg/g	0.237	3.79	1.54	3.33
Robust Standard Deviation µg/g	1.12	18.2	7.37	16.0
Regression Standard Deviation µg/g	1.73	28.4	10.0	22.3
Stability Flag				
Homogeneity Flag			Homogeneity	
Standard Deviation Used (SDPA) µg/g	1.73	28.4	10.2	22.3
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

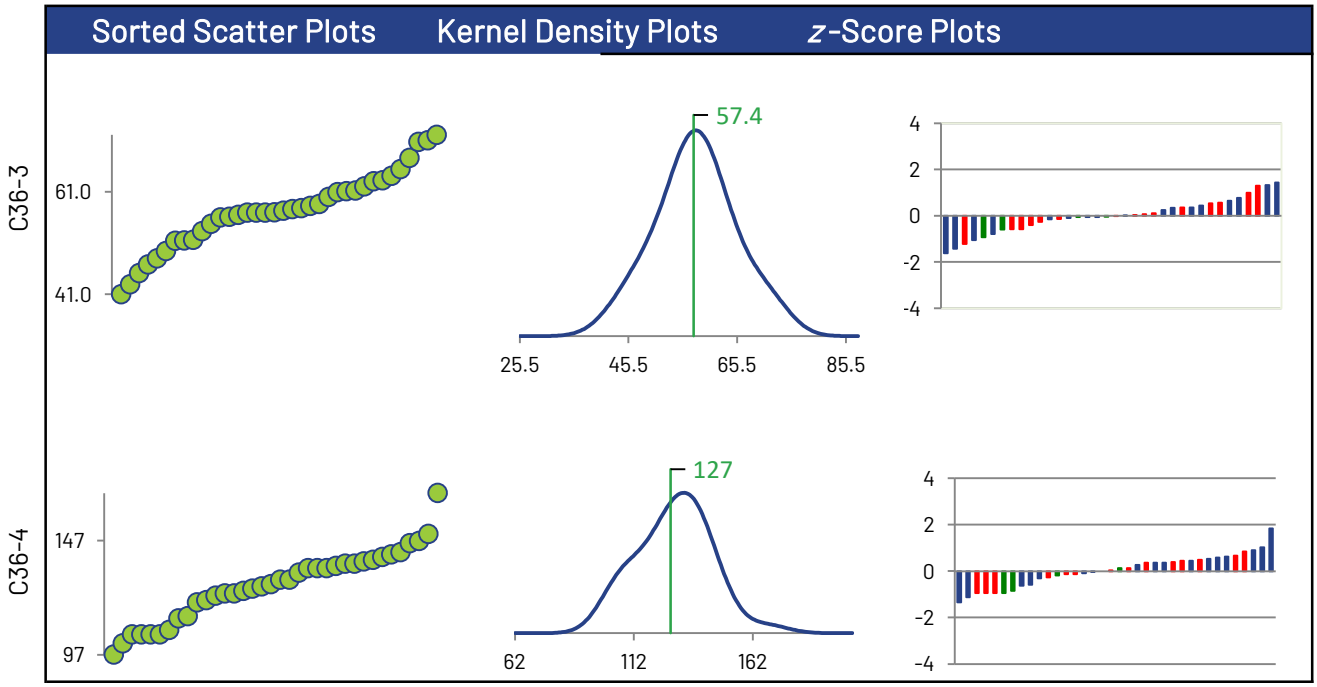
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	17	17	17	17
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	3	4	4	4

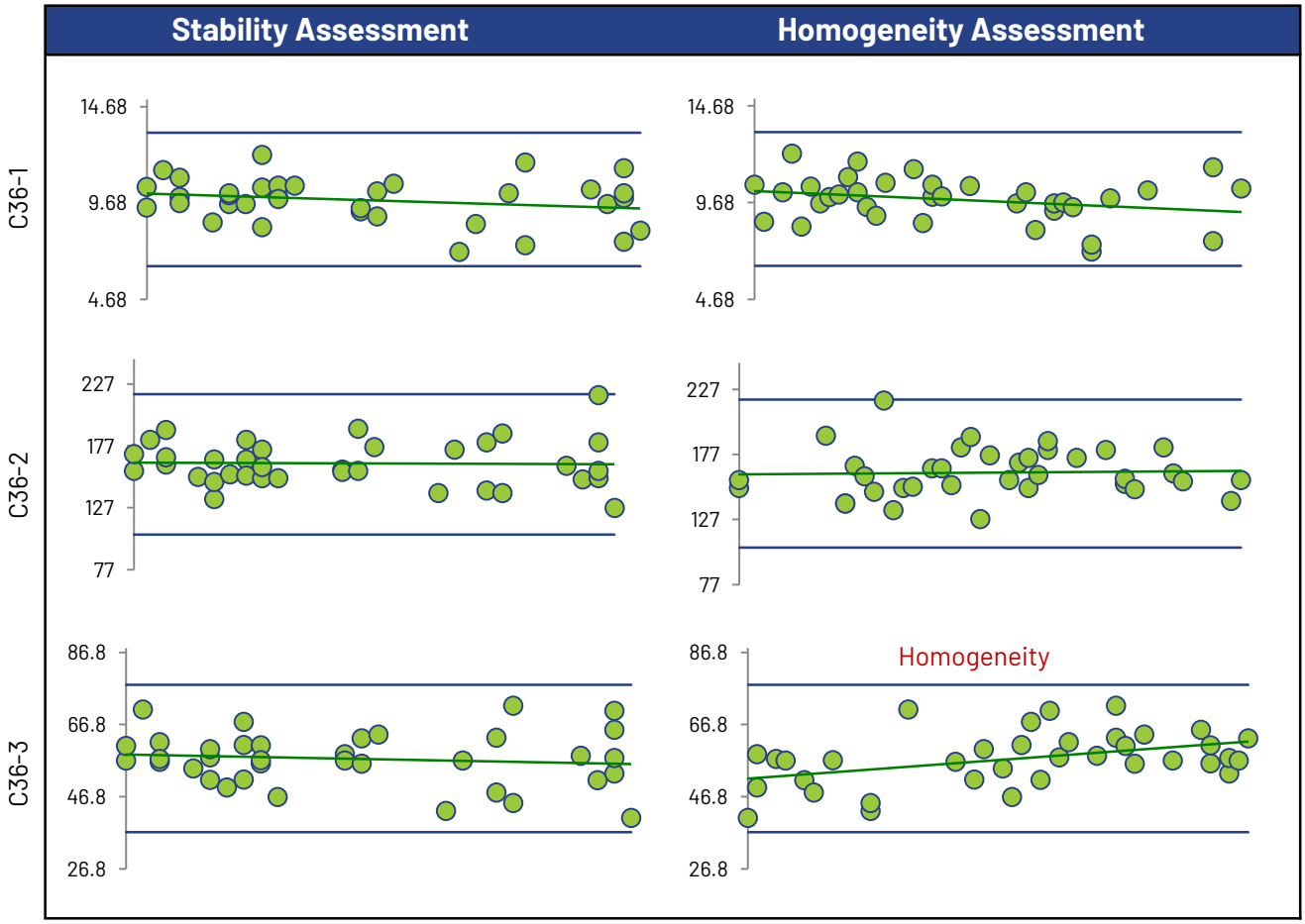
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

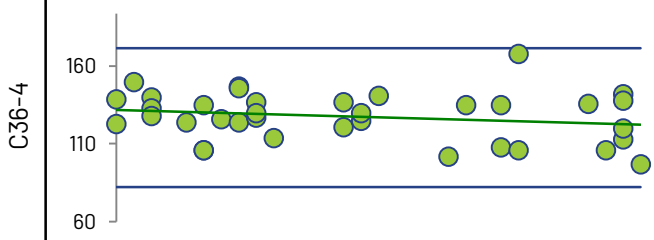
Benzene


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
61.0
41.0
57.4
25.5
45.5
65.5
85.5
4
2
0
-2
-4
C36-4
147
97
127
62
112
162

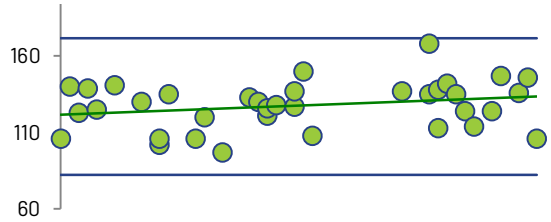

Stability Assessment
Homogeneity Assessment
C36-1
14.68
9.68
4.68
C36-2
227
177
127
77
C36-3
86.8
66.8
46.8
26.8
Homogeneity

Benzene

Stability Assessment



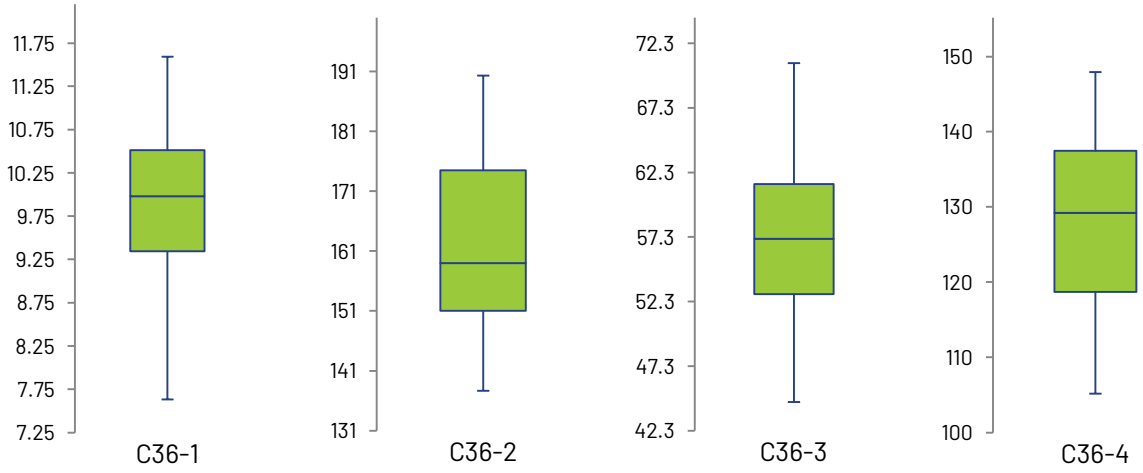
Homogeneity Assessment



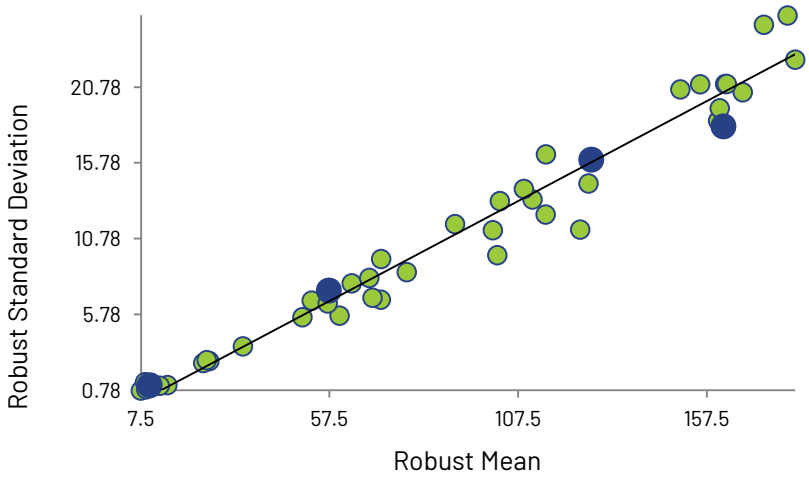
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Bromodichloromethane

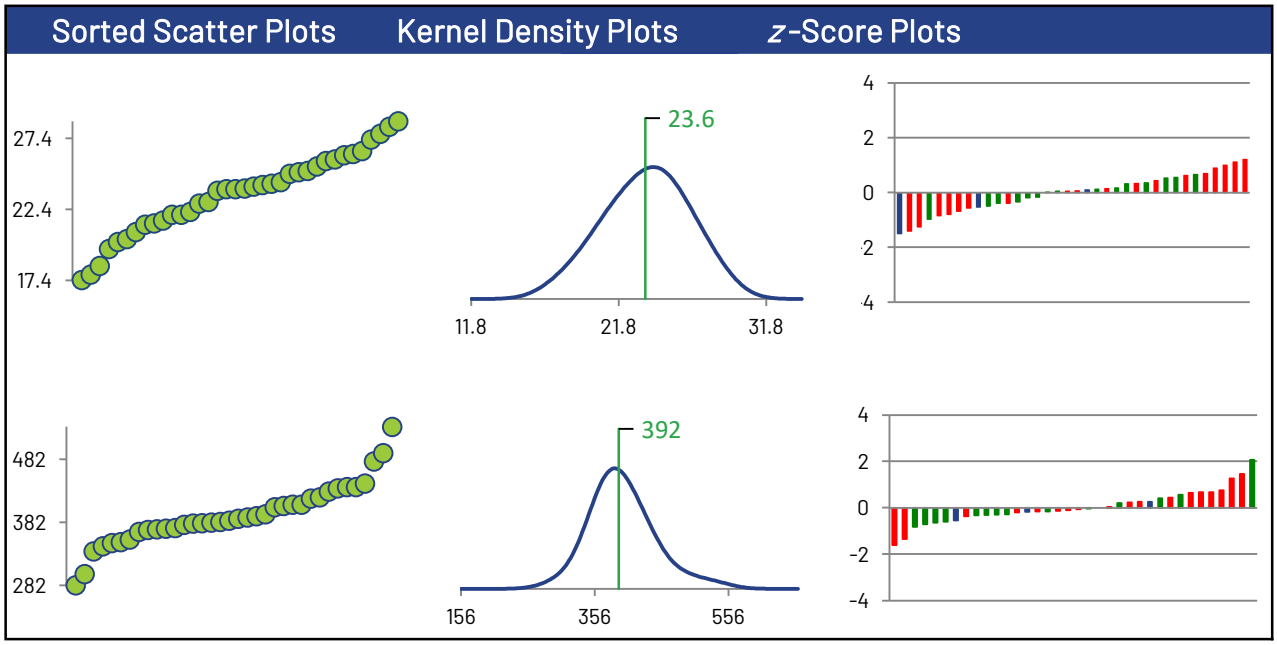
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	35	36
Median µg/g	23.8	387	138	308
Robust Mean µg/g	23.6	392	137	310
Uncdrtainty of the Assigned Value µg/g	0.625	8.50	3.82	7.23
Robust Standard Deviation µg/g	3.00	40.8	18.1	34.7
Regression Standard Deviation µg/g	4.12	68.7	24.0	54.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	4.12	68.7	24.0	54.3
Flagged Outliers	0	0	1	0
|z|>3.0	0	0	0	0
2<|z|<3	0	1	0	0
Failure Rate %*	2.8			

Methods Used

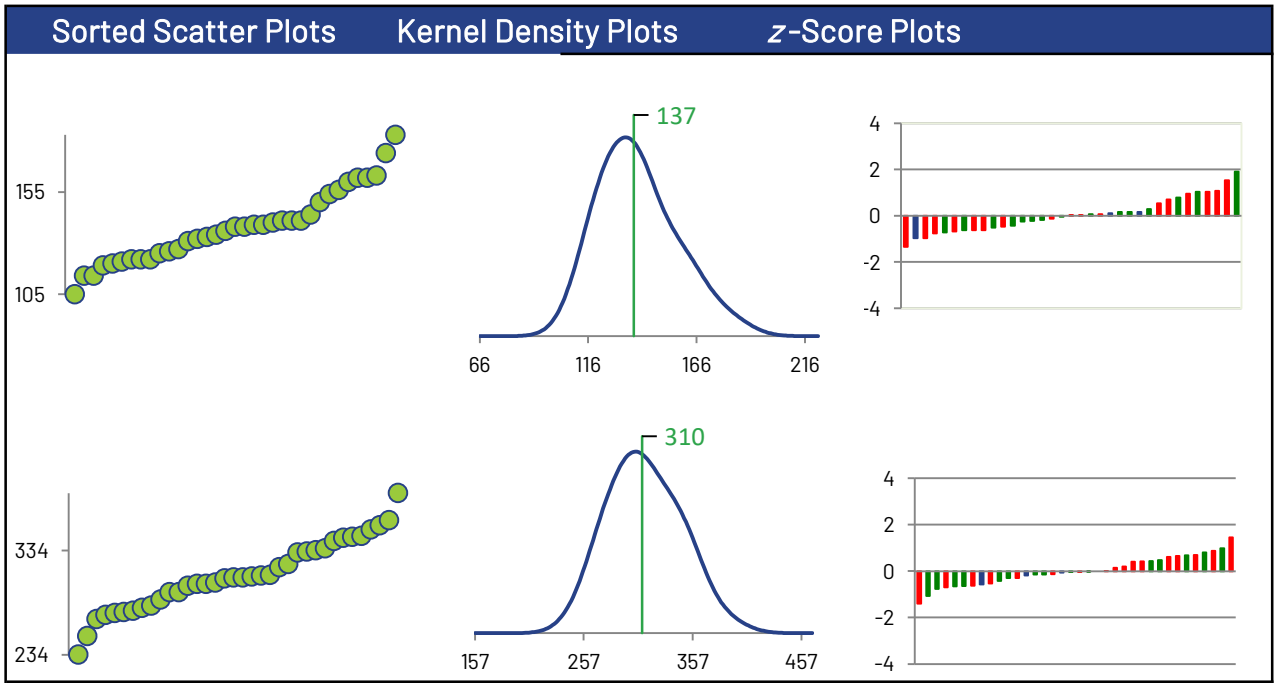
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	18	18	17	18
GC/MS - HEADSPACE (Green)	15	15	15	15

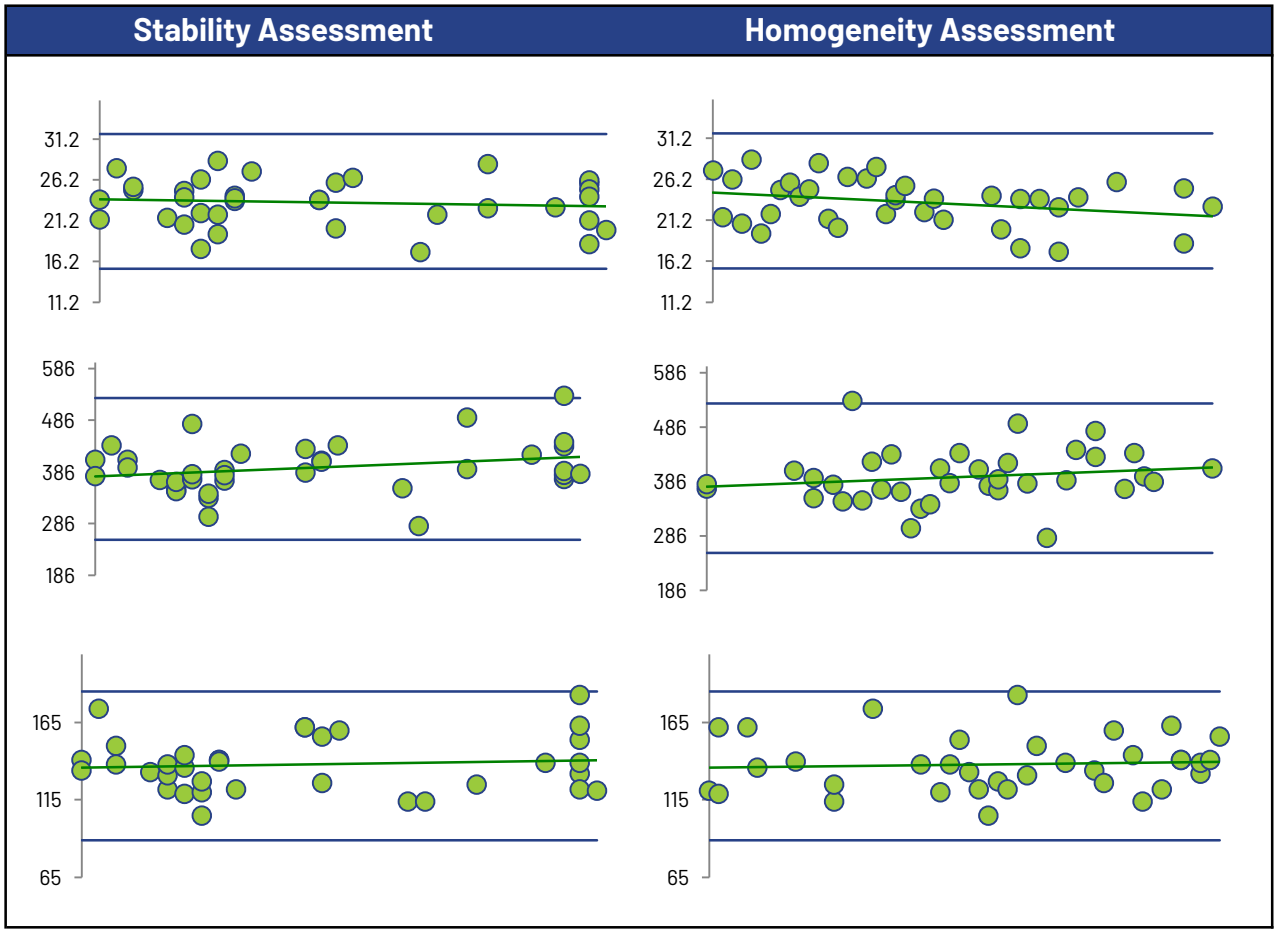
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

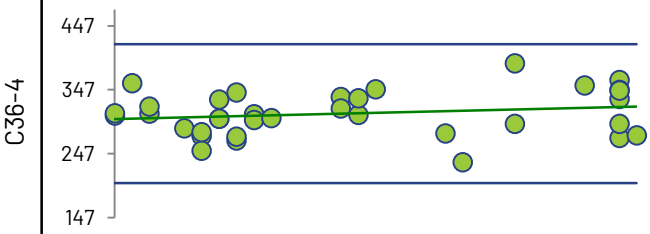
Bromodichloromethane



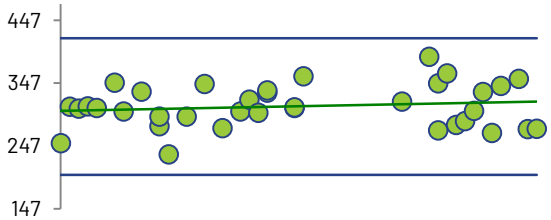


Bromodichloromethane

Stability Assessment



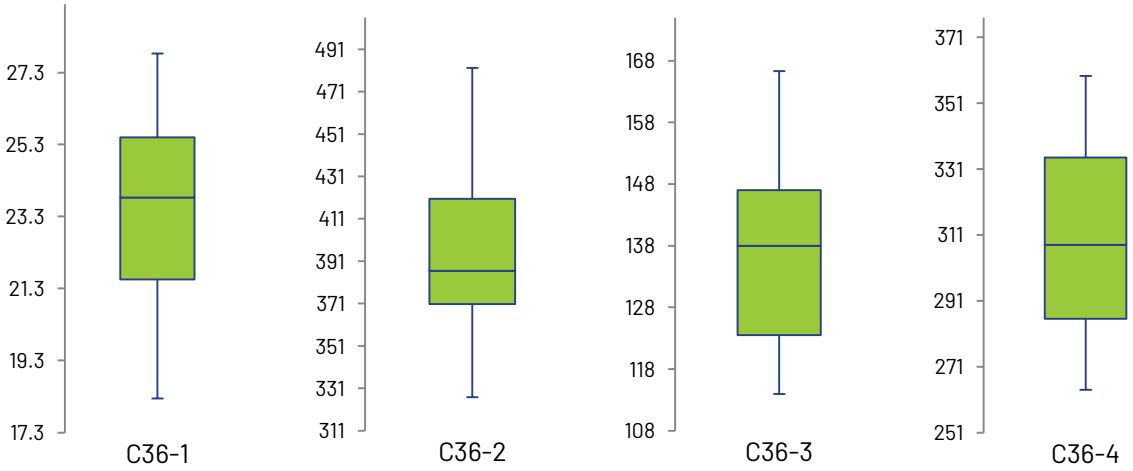
Homogeneity Assessment



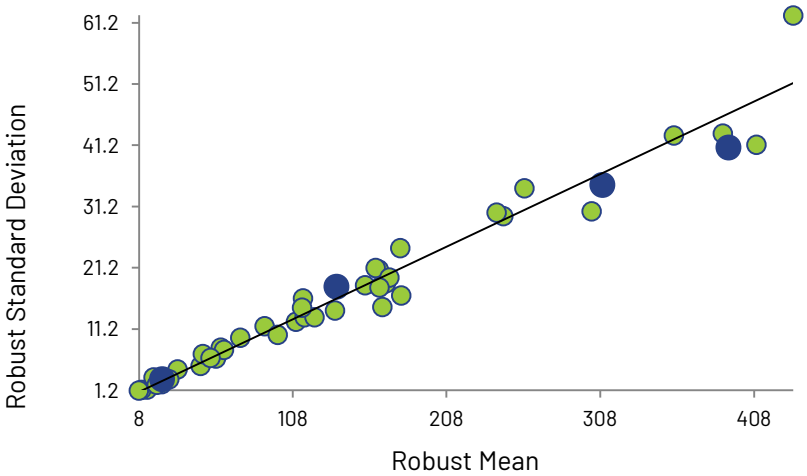
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Bromoform

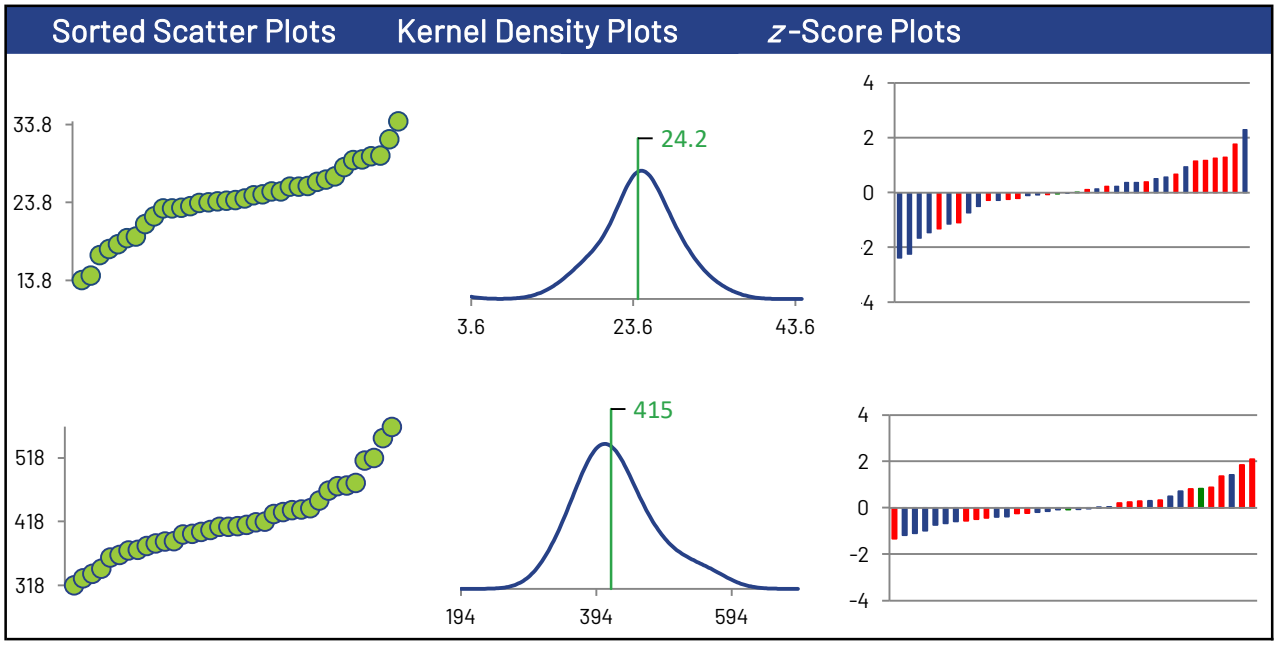
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	24.2	411	147	325
Robust Mean µg/g	24.2	415	145	329
Uncdrtainty of the Assigned Value µg/g	0.906	11.5	5.33	11.3
Robust Standard Deviation µg/g	4.35	55.3	25.6	54.2
Regression Standard Deviation µg/g	4.24	72.7	25.4	57.5
Stability Flag				
Homogeneity Flag			Homogeneity	
Standard Deviation Used (SDPA) µg/g	4.35	72.7	26.5	57.5
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	3	1	1	1
Failure Rate %*	2.8			

Methods Used

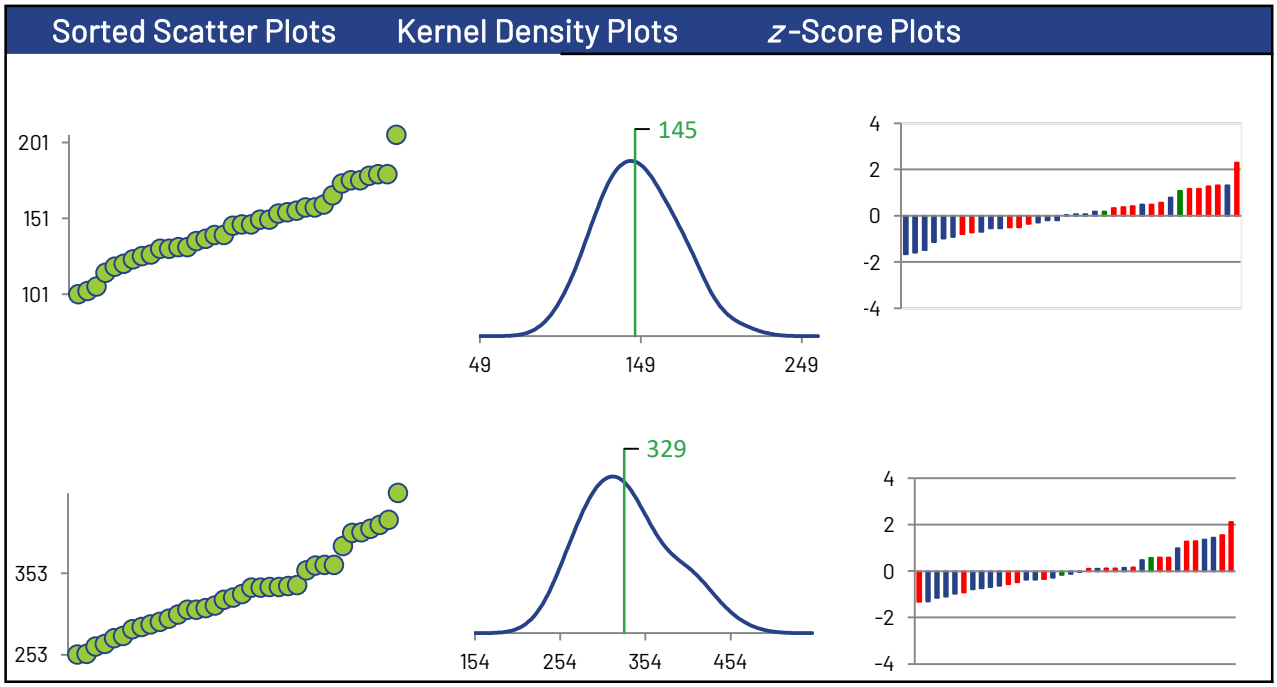
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	19	19	19	19
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	2	2	2	2

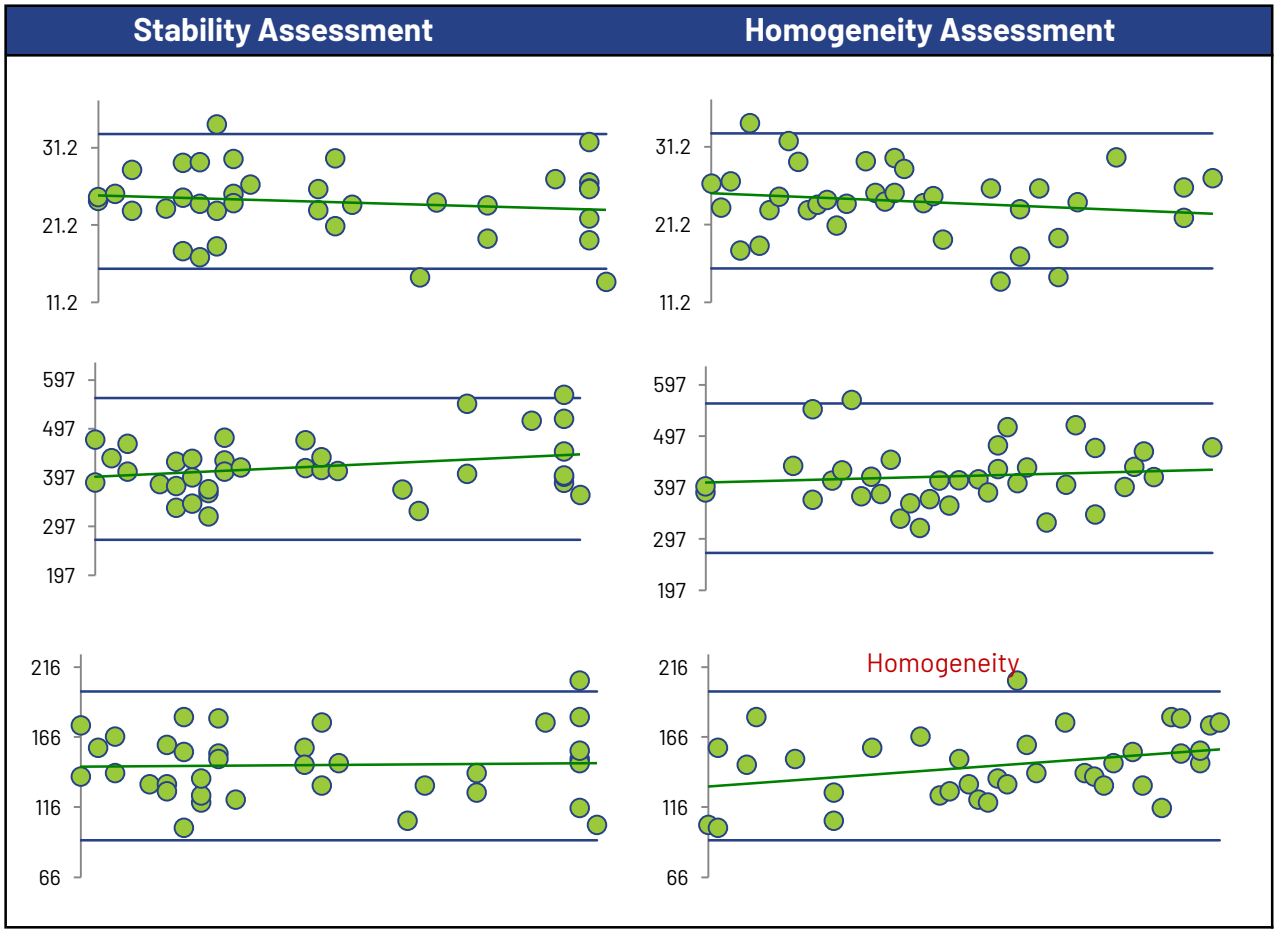
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

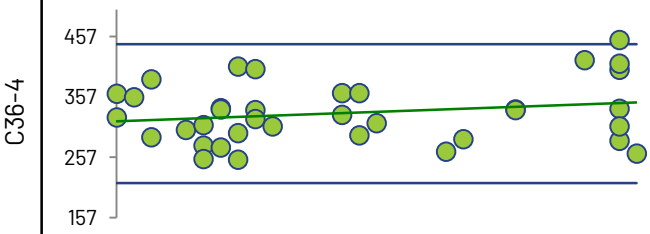
Bromoform


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
201
151
101
145
49
149
249
4
2
0
-2
-4
C36-4
353
253
329
154
254
354
454

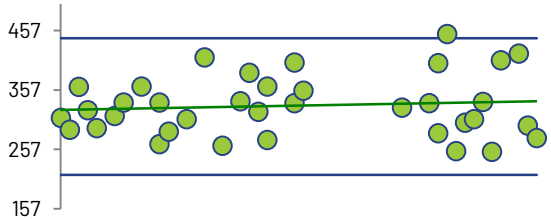

Stability Assessment
Homogeneity Assessment
C36-1
31.2
21.2
11.2
C36-2
597
497
397
297
197
C36-3
216
166
116
66
Homogeneity

Bromoform

Stability Assessment



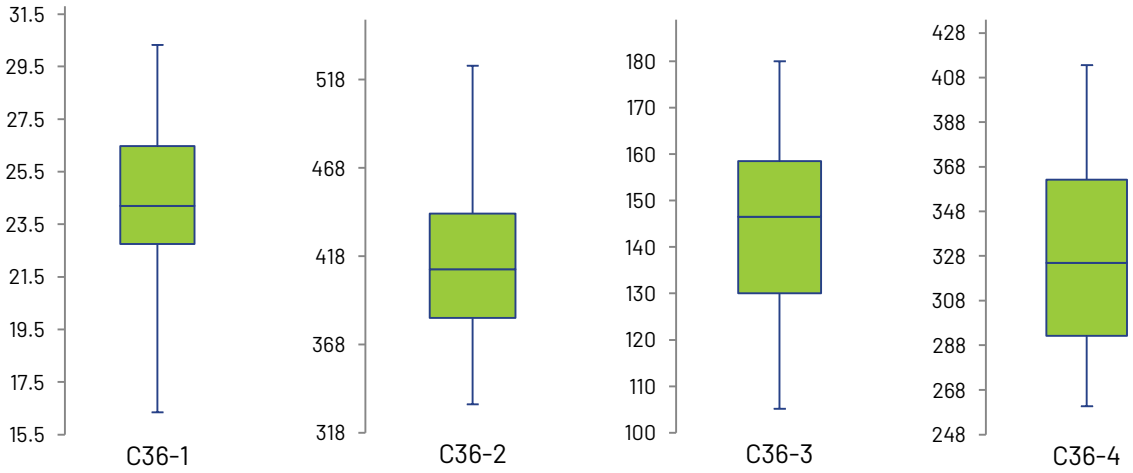
Homogeneity Assessment



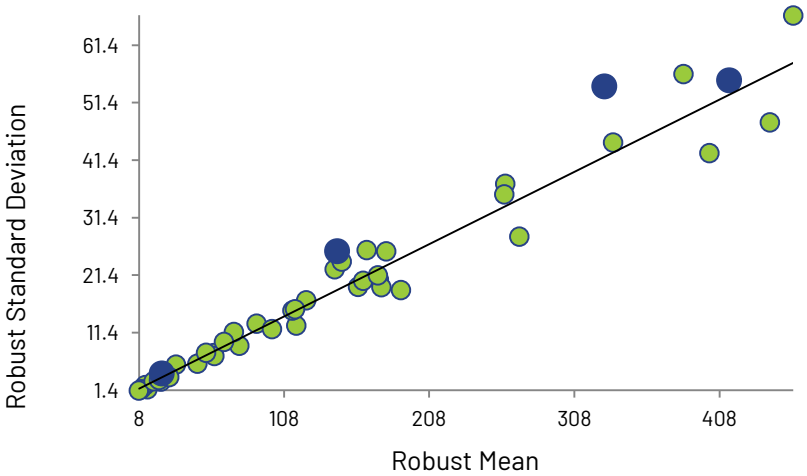
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Carbon tetrachloride

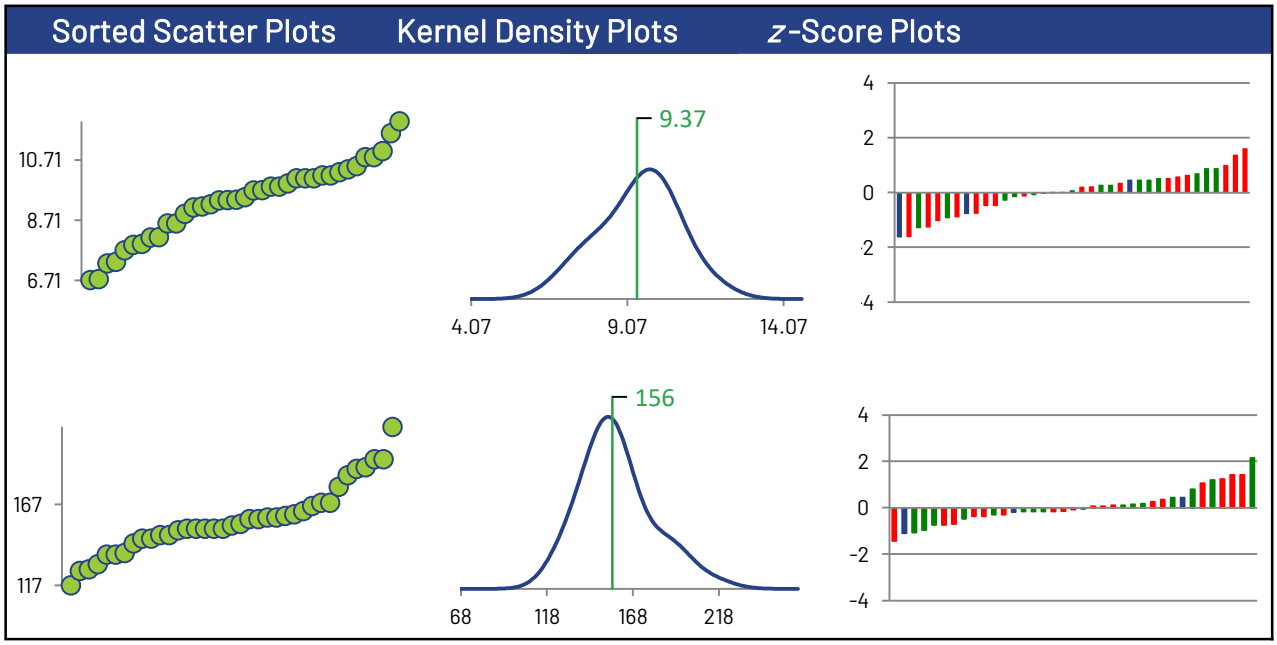
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.47	154	54.7	122
Robust Mean µg/g	9.37	156	54.9	122
Uncdrtainty of the Assigned Value µg/g	0.273	4.21	1.86	3.37
Robust Standard Deviation µg/g	1.33	20.5	9.03	16.4
Regression Standard Deviation µg/g	1.64	27.4	9.61	21.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.64	27.4	9.61	21.3
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	1	0	1
Failure Rate %*	0.0			

Methods Used

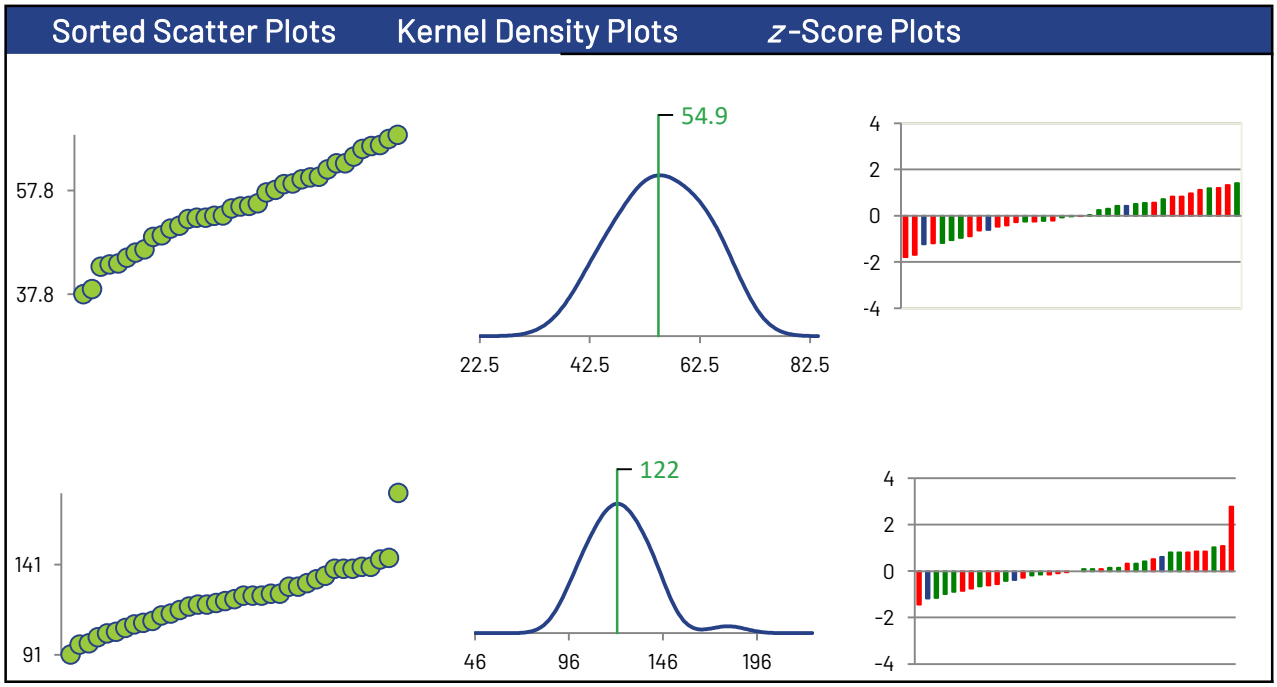
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	16	16	16	16

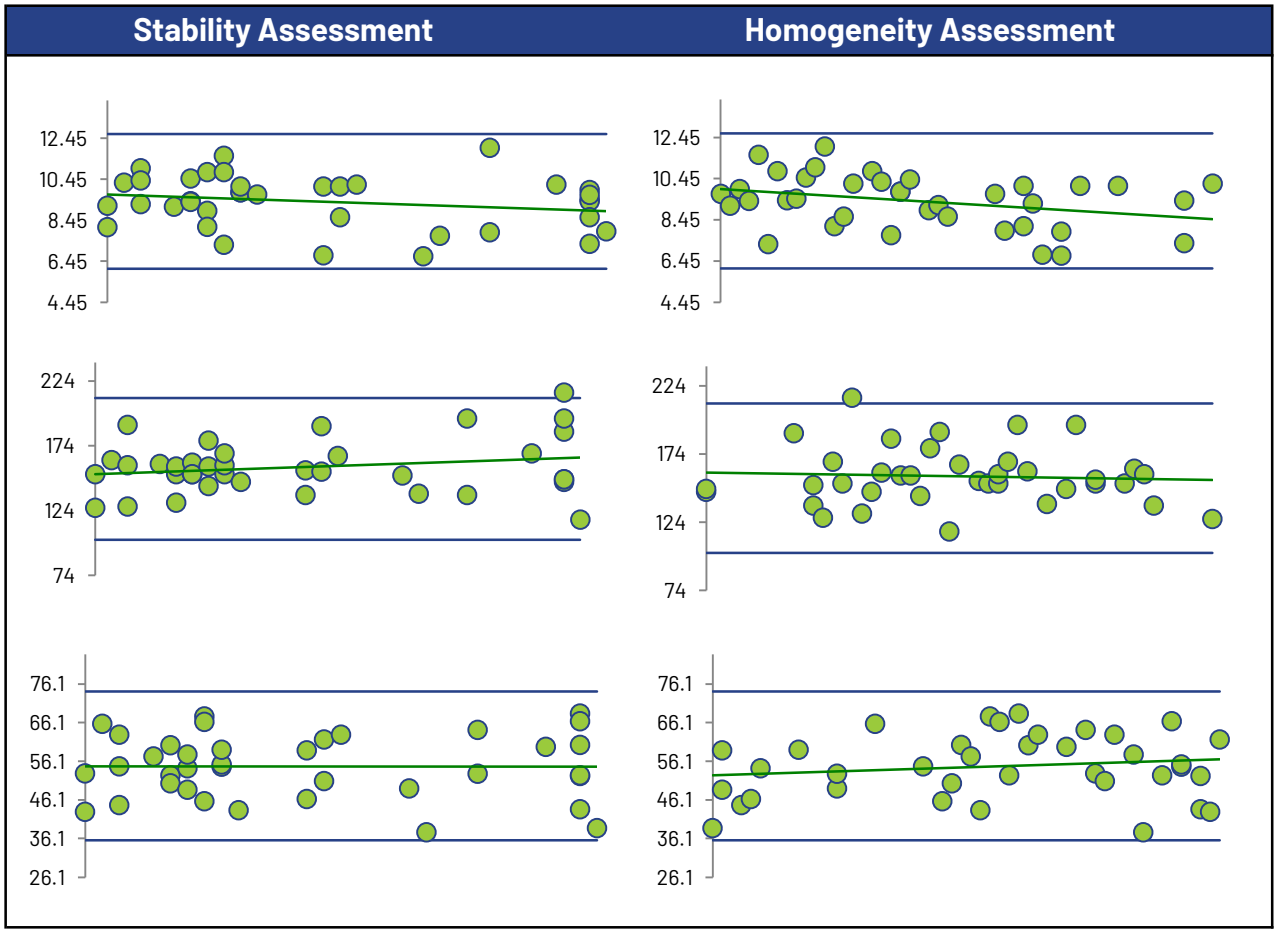
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

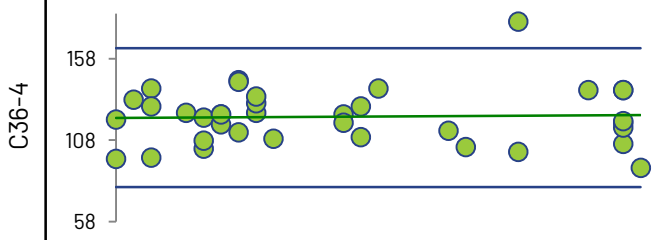
Carbon tetrachloride



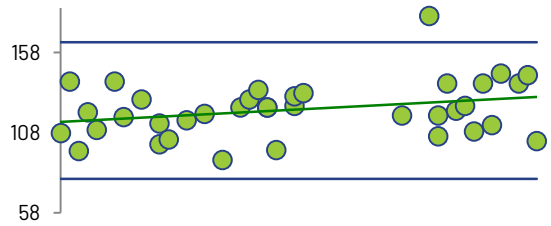


Carbon tetrachloride

Stability Assessment



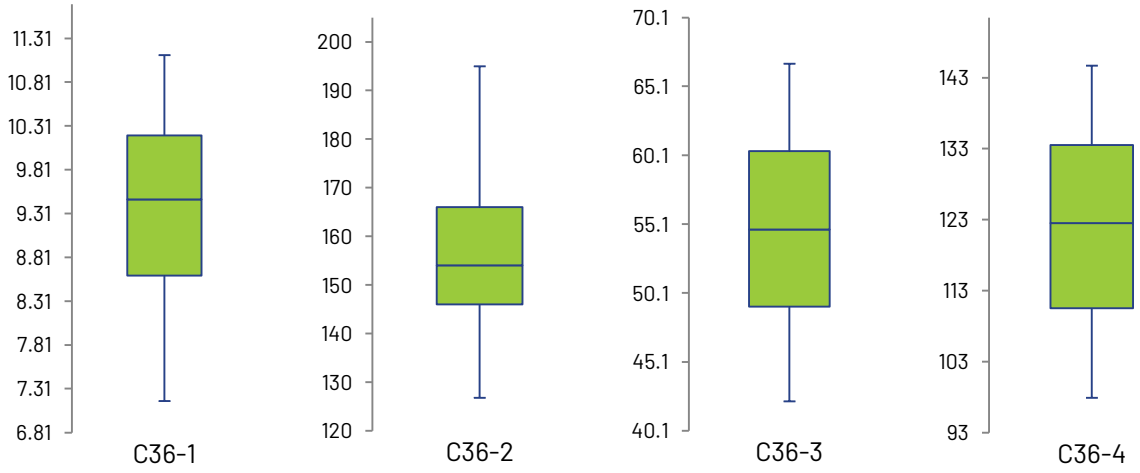
Homogeneity Assessment



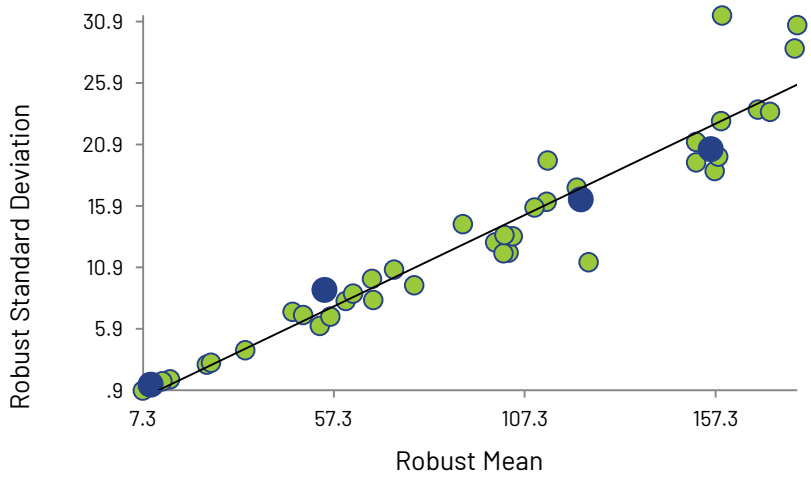
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Chlorobenzene

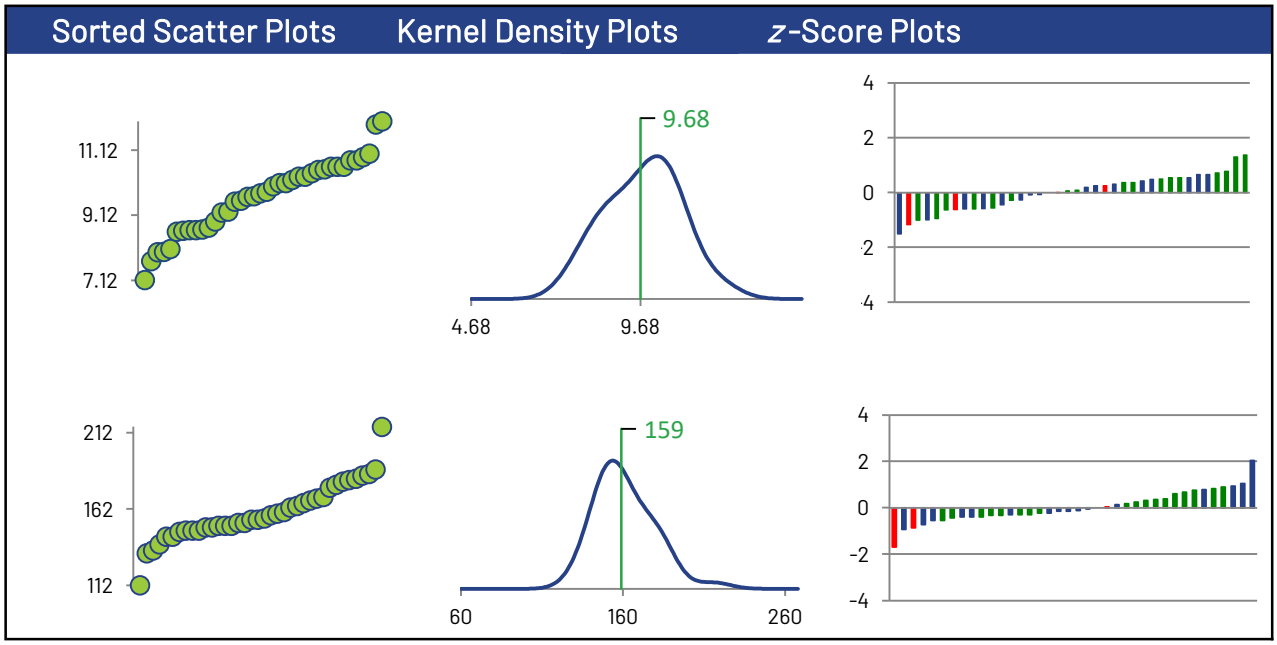
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	38	38	38	38
Median µg/g	9.81	156	57.9	125
Robust Mean µg/g	9.68	159	56.2	125
Uncdrtainty of the Assigned Value µg/g	0.237	3.59	1.36	2.72
Robust Standard Deviation µg/g	1.17	17.7	6.71	13.4
Regression Standard Deviation µg/g	1.69	27.9	9.83	21.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.69	27.9	9.83	21.9
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

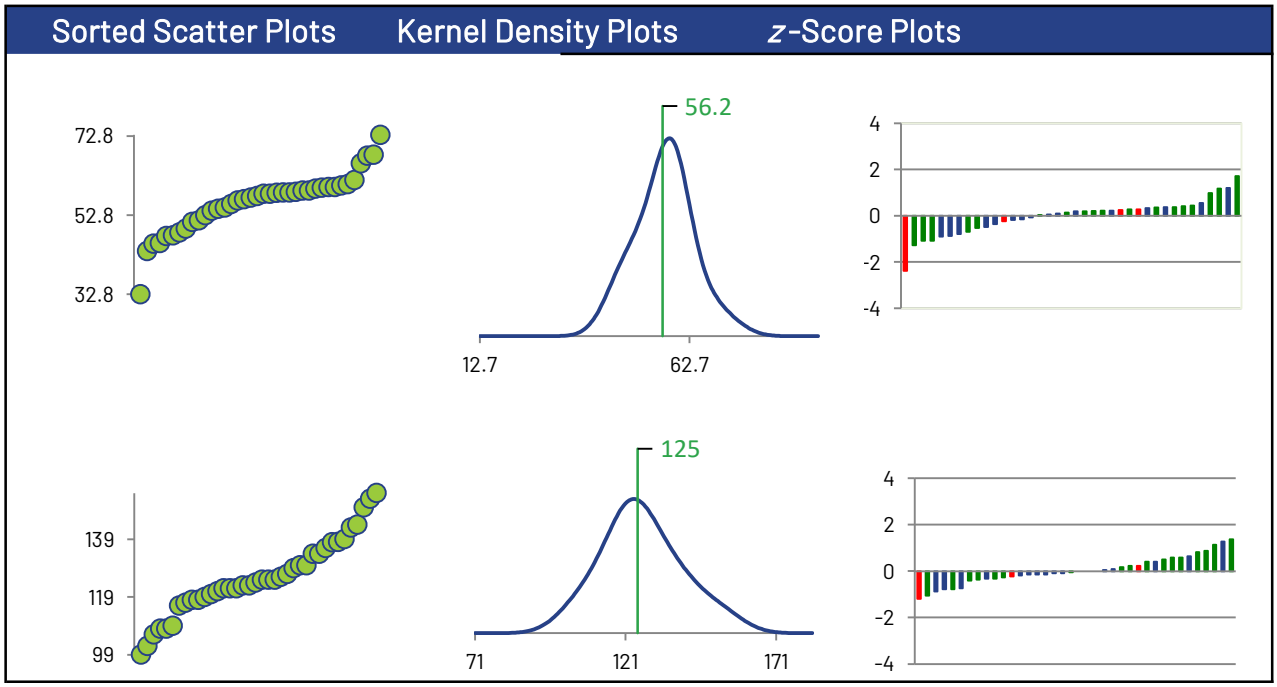
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	16	16	16	16
GC/MS (Red)	4	4	4	4
GC/MS - PURGE AND TRAP (Green)	18	18	18	18

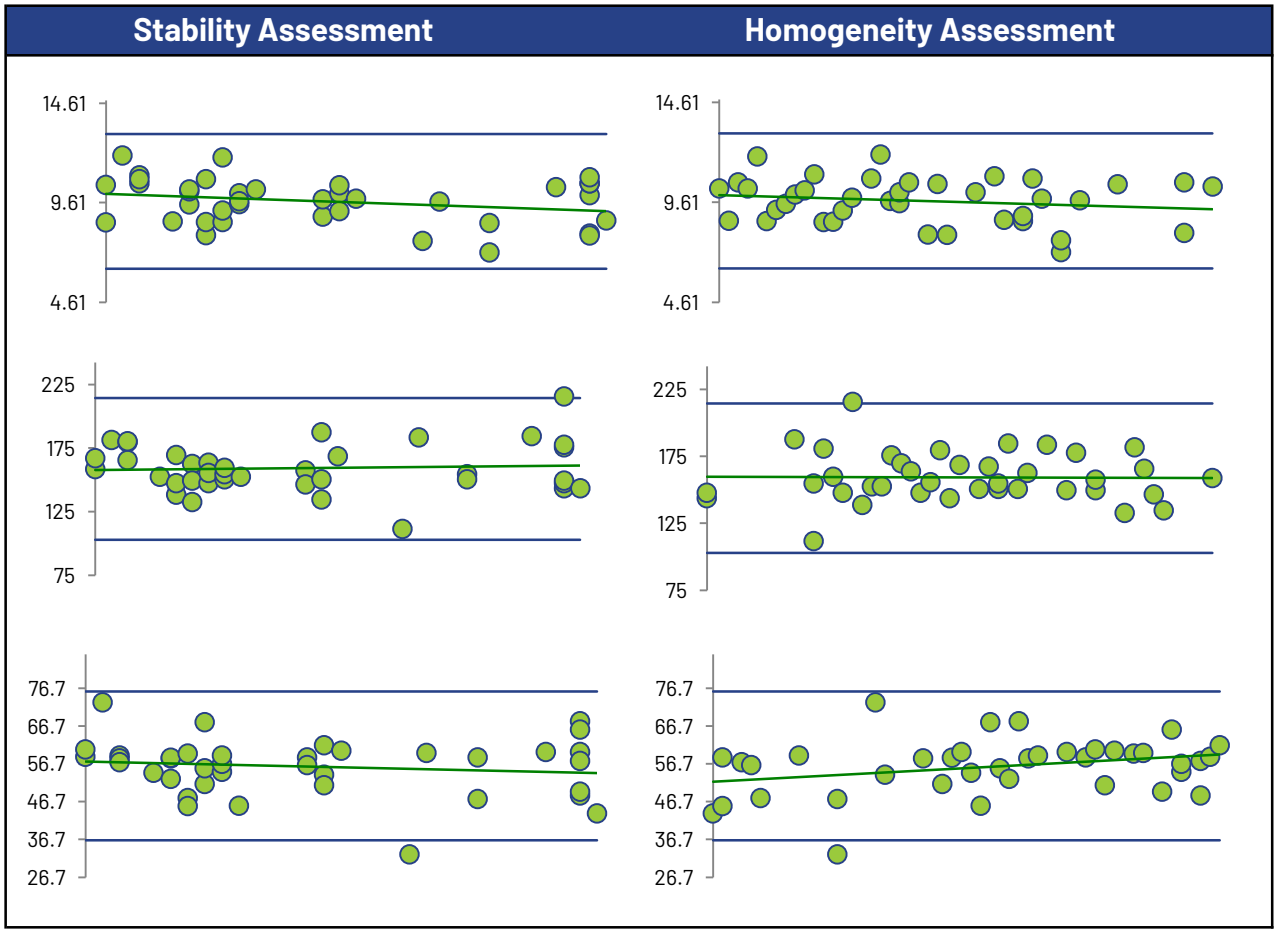
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

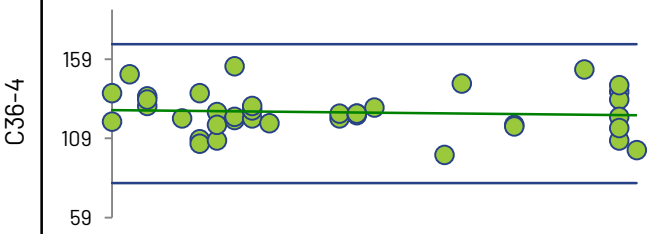
Chlorobenzene



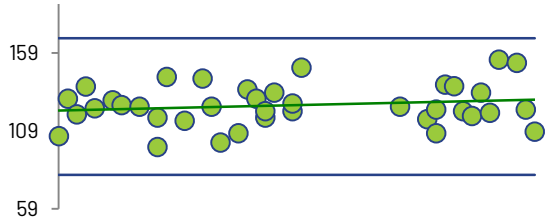


Chlorobenzene

Stability Assessment



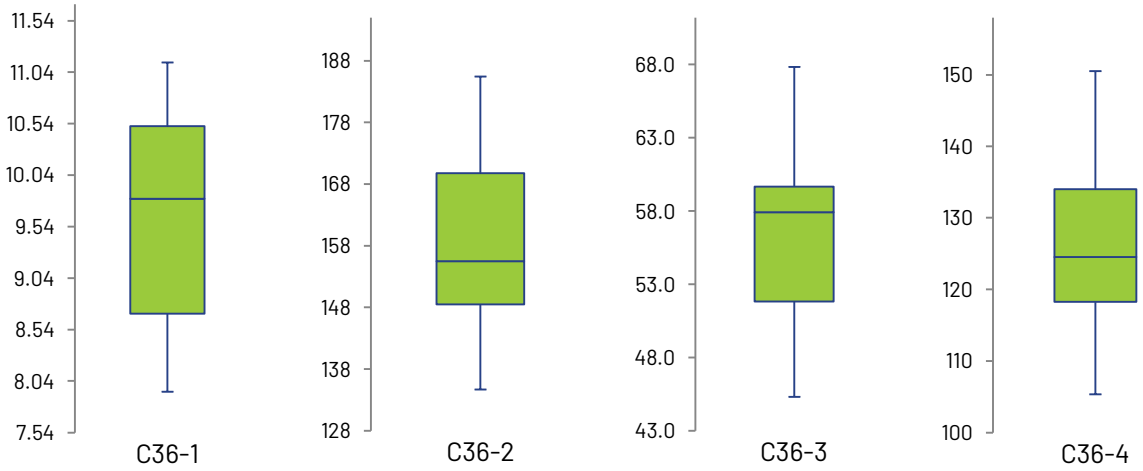
Homogeneity Assessment



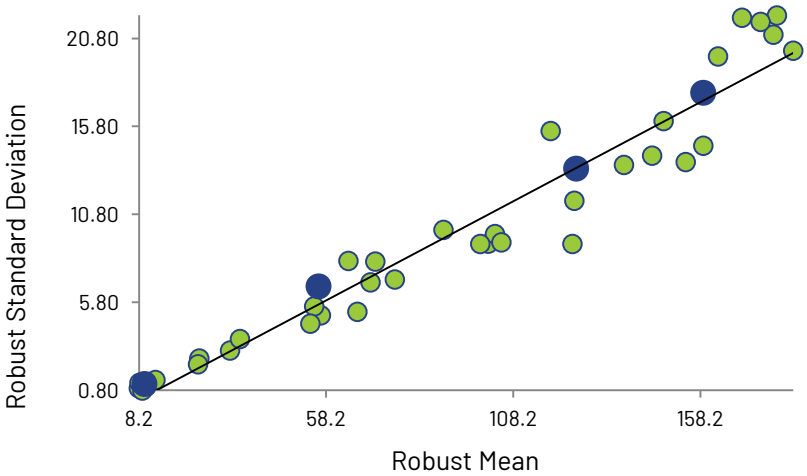
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Chlorodibromomethane

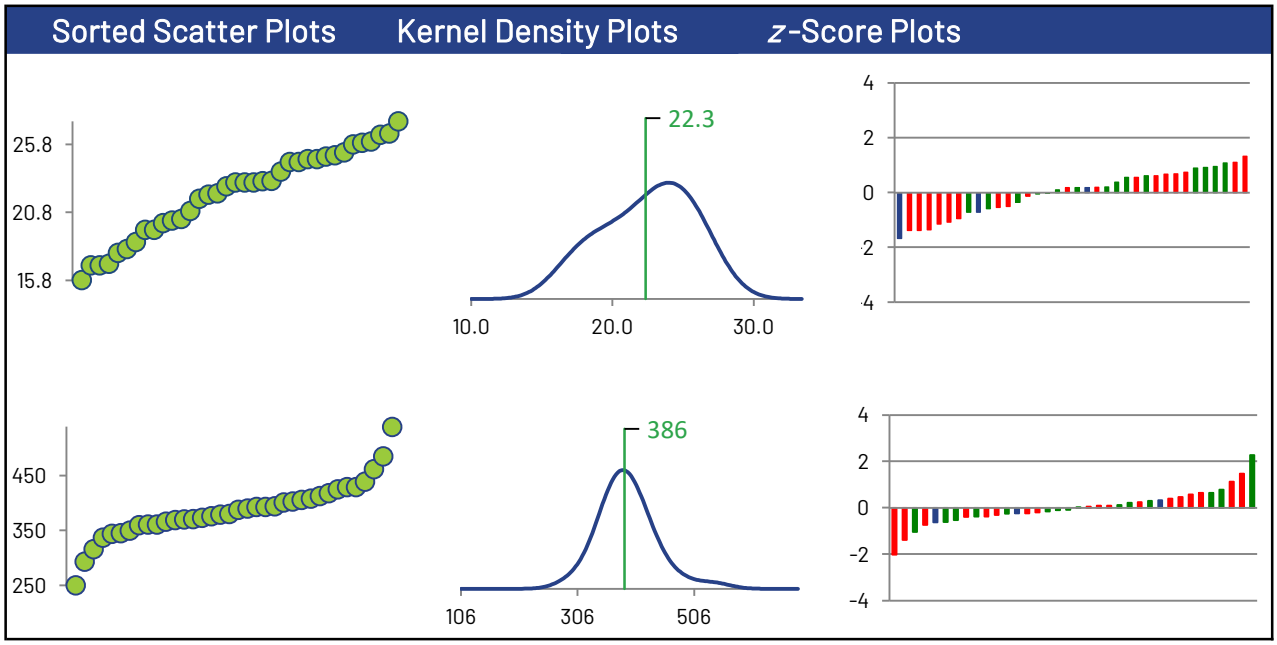
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	23.0	384	136	300
Robust Mean µg/g	22.3	386	134	304
Uncdrtainty of the Assigned Value µg/g	0.746	8.31	4.13	7.58
Robust Standard Deviation µg/g	3.58	39.9	19.8	36.4
Regression Standard Deviation µg/g	3.90	67.5	23.4	53.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	3.90	67.5	23.4	53.2
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	2	0	0
Failure Rate %*	0.0			

Methods Used

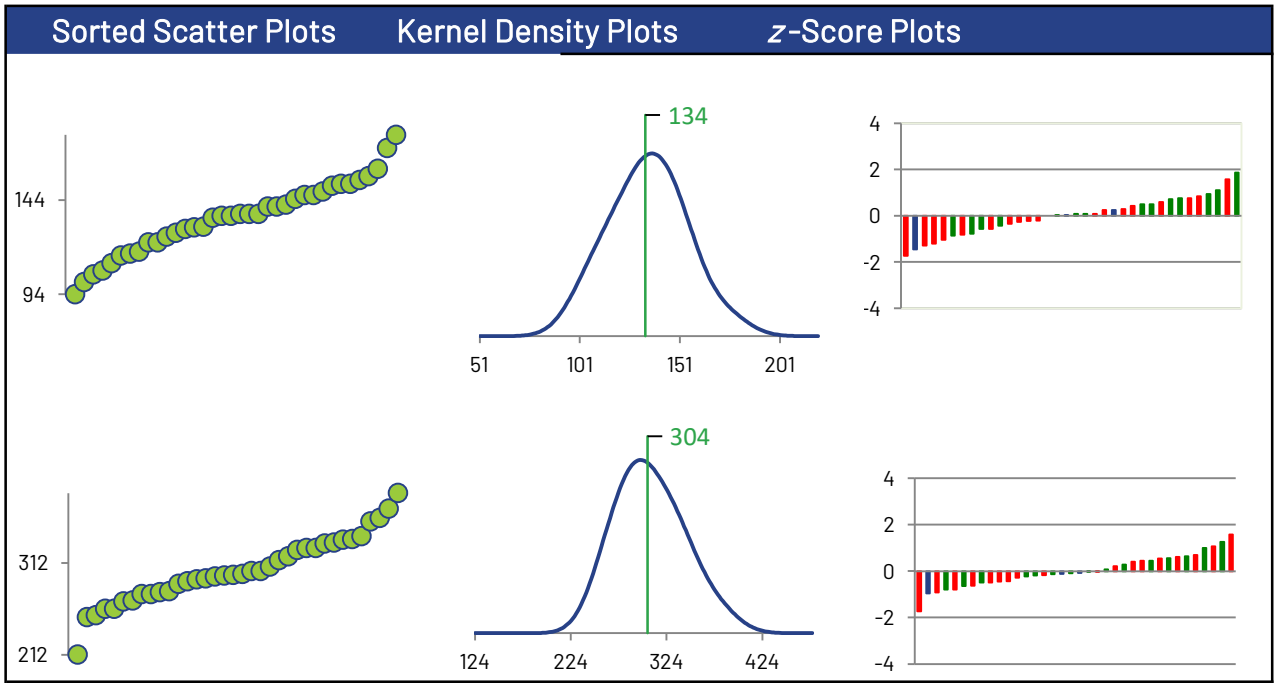
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	15	15	15	15

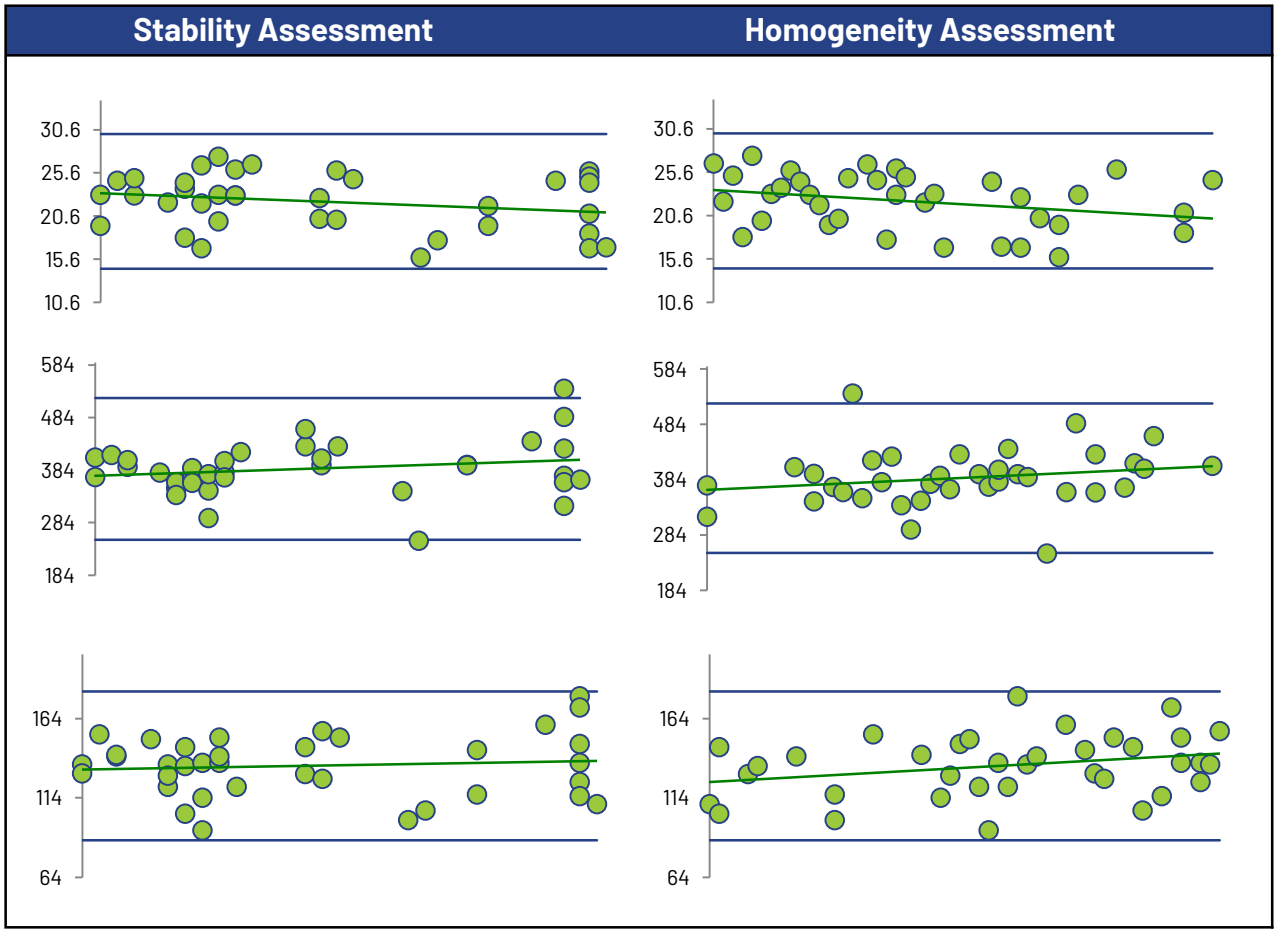
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

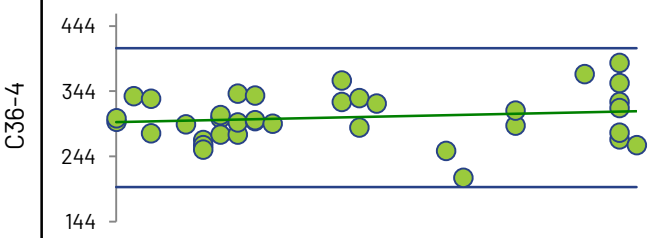
Chlorodibromomethane



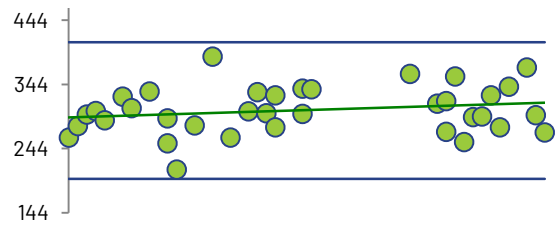


Chlorodibromomethane

Stability Assessment



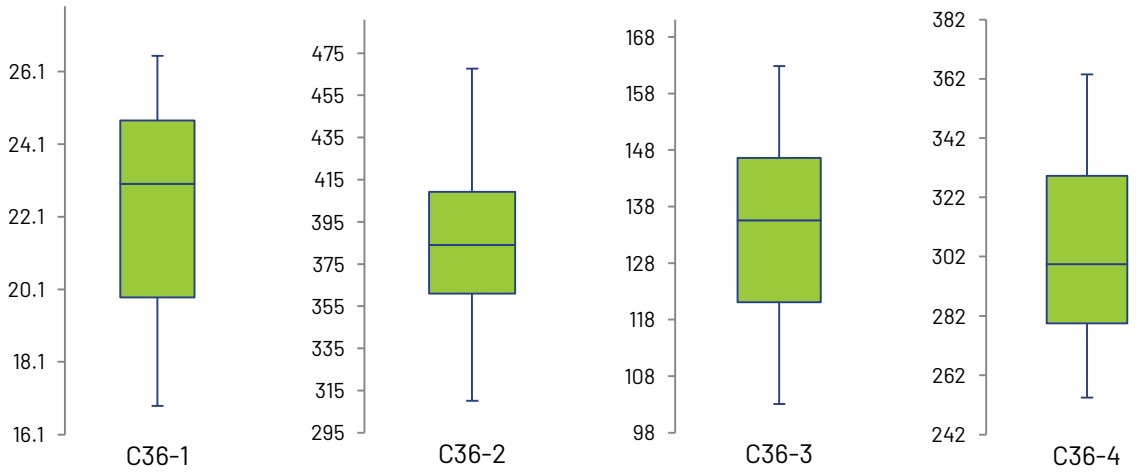
Homogeneity Assessment



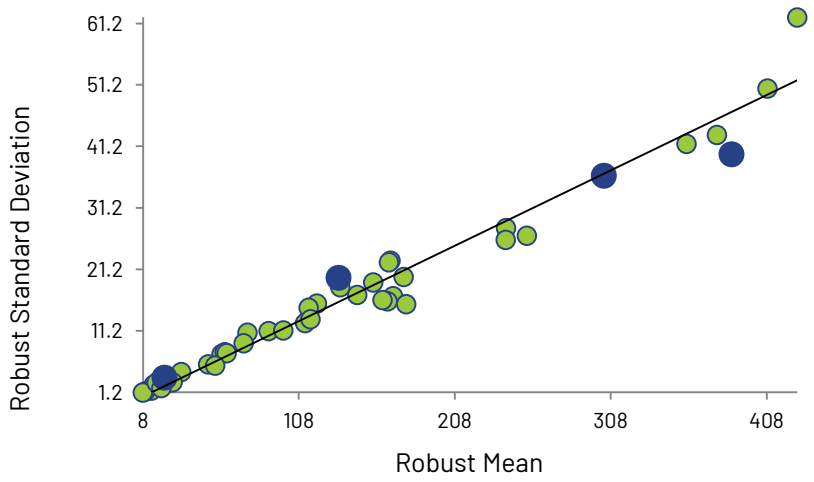
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Chloroform

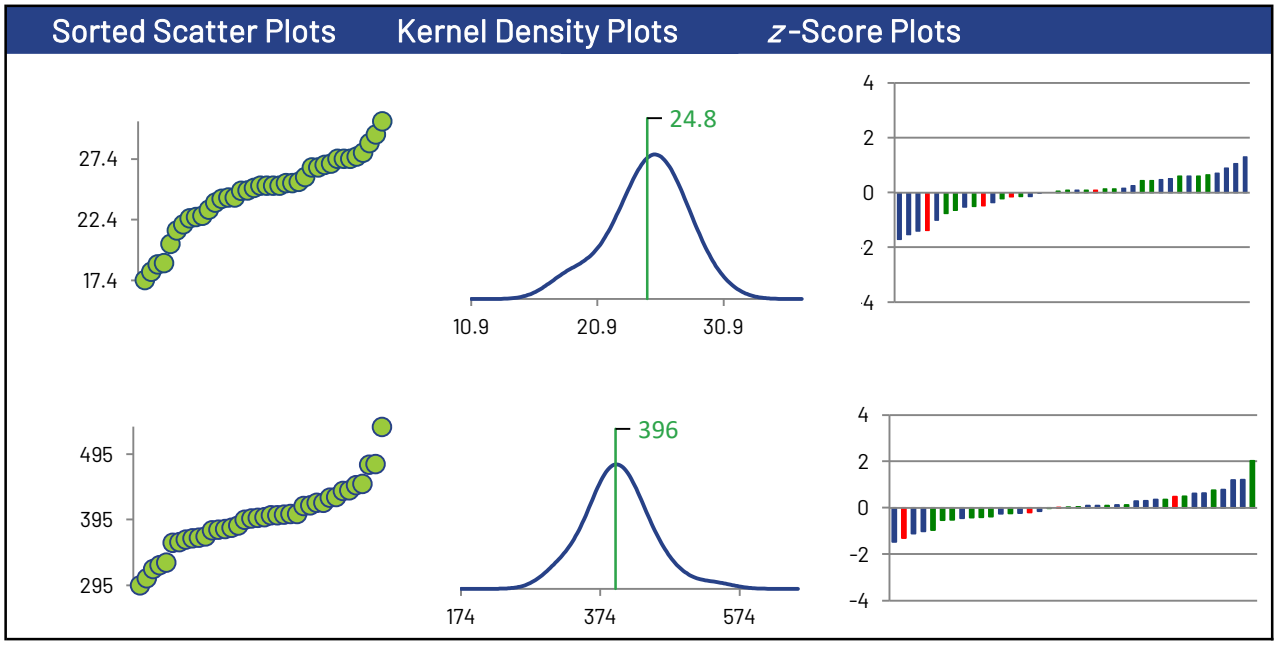
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	38	38	38	38
Median µg/g	25.2	399	141	308
Robust Mean µg/g	24.8	396	142	312
Uncdrtainty of the Assigned Value µg/g	0.590	8.90	3.99	7.69
Robust Standard Deviation µg/g	2.91	43.9	19.7	37.9
Regression Standard Deviation µg/g	4.34	69.3	24.8	54.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	4.34	69.3	24.8	54.6
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	1	0	0
Failure Rate %*	0.0			

Methods Used

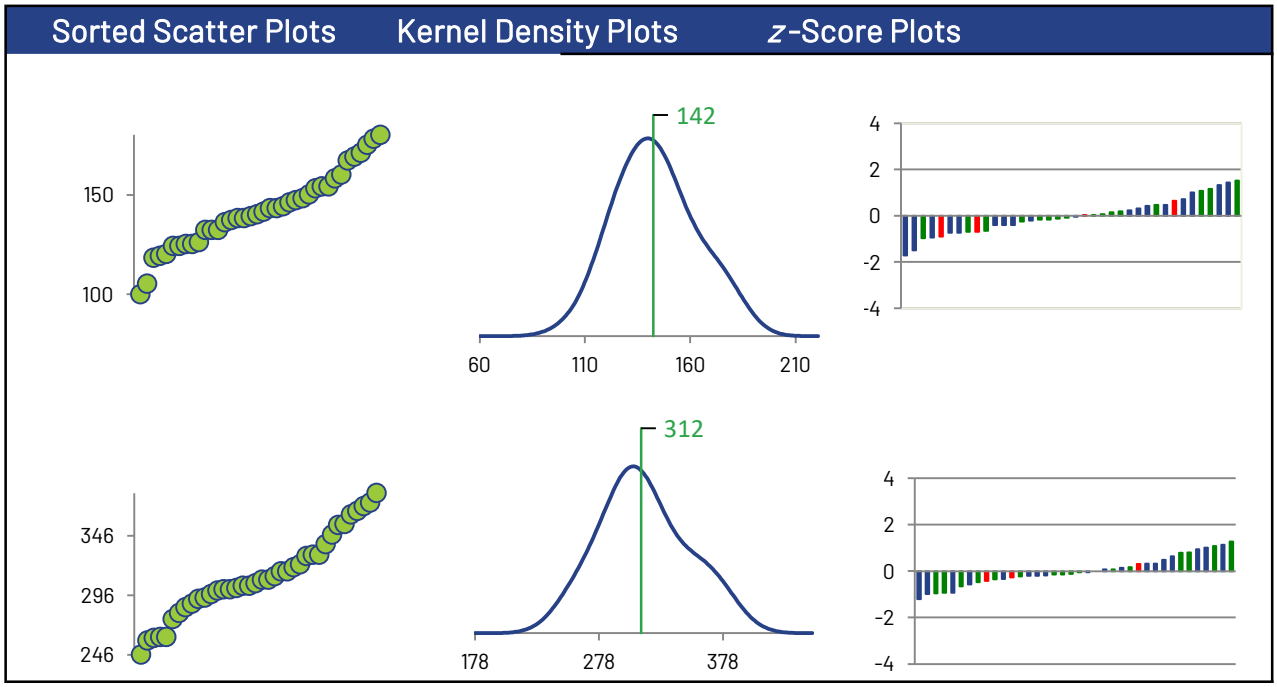
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS (Red)	4	4	4	4
GC/MS - HEADSPACE (Green)	16	16	16	16

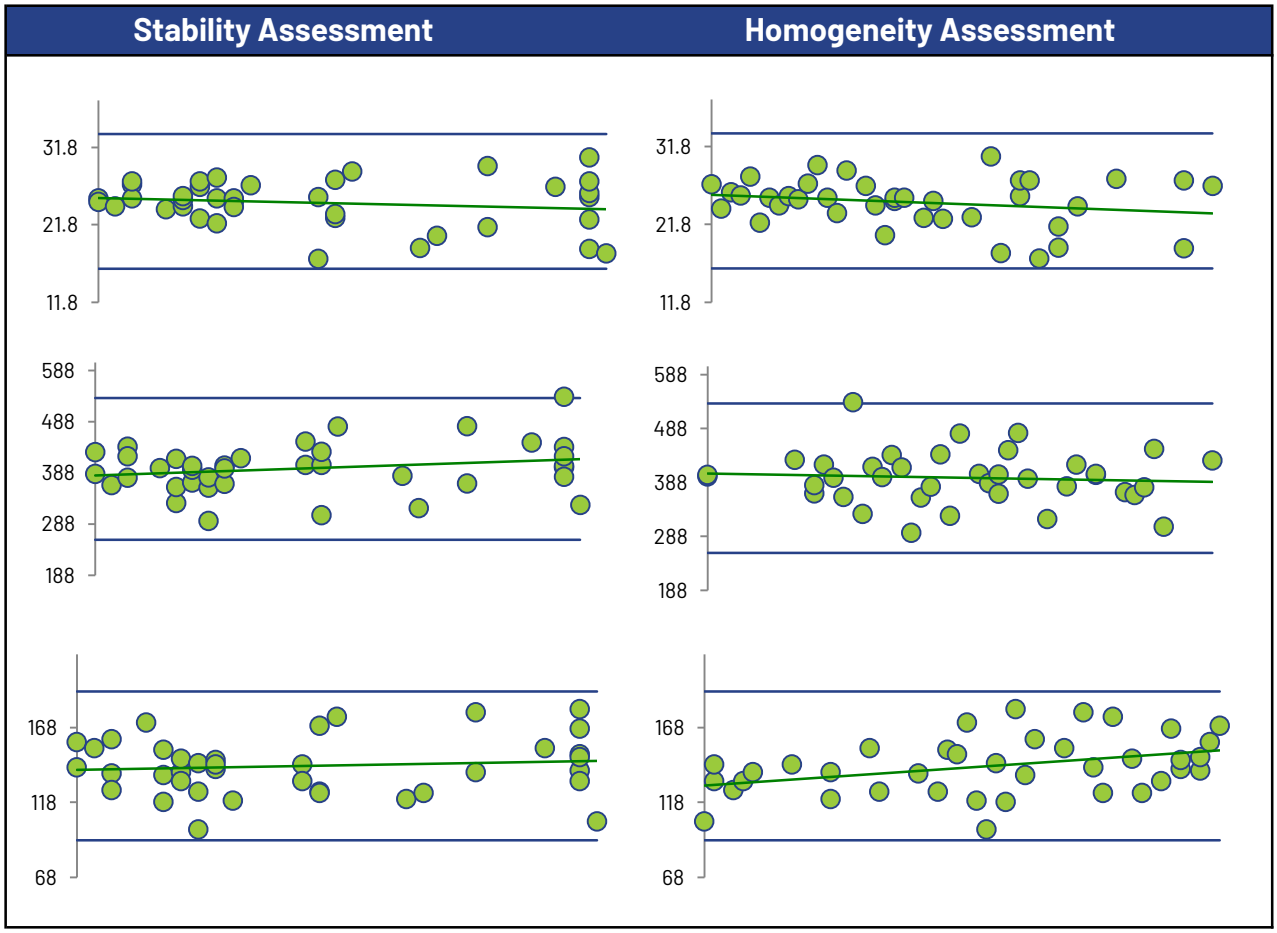
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

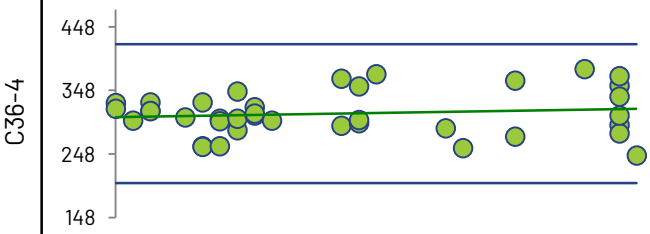
Chloroform


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
150
100
142
60
110
160
210
4
2
0
-2
-4
C36-4
346
296
246
312
178
278
378

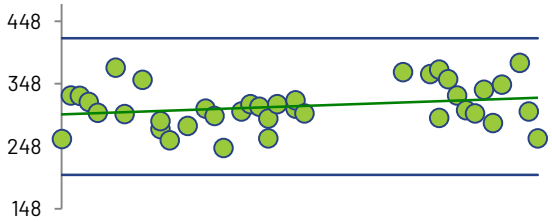

Stability Assessment
Homogeneity Assessment
C36-1
31.8
21.8
11.8
C36-2
588
488
388
288
188
C36-3
168
118
68

Chloroform

Stability Assessment



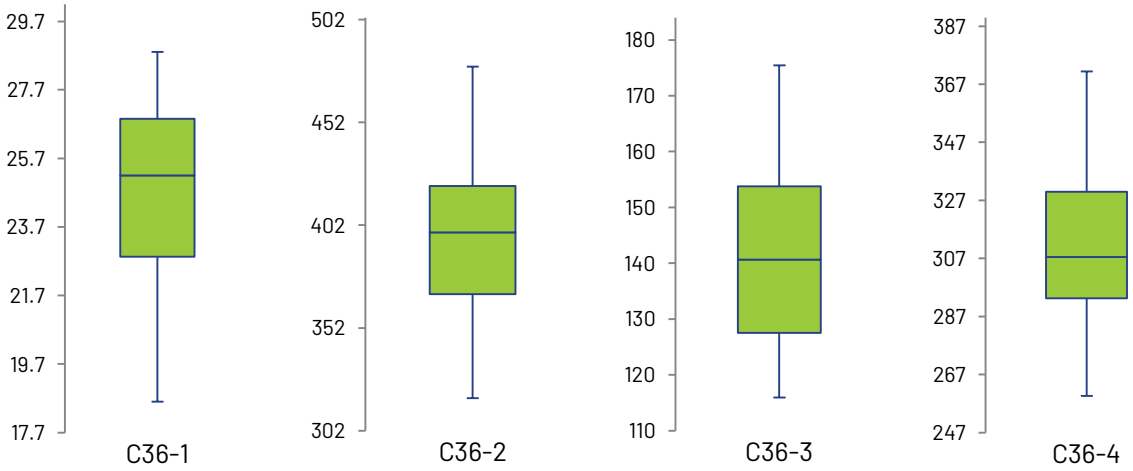
Homogeneity Assessment



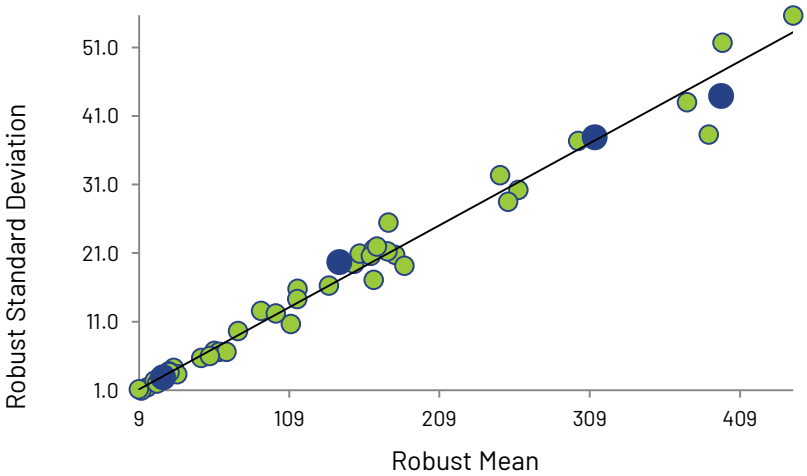
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



cis-1,2-Dichloroethylene

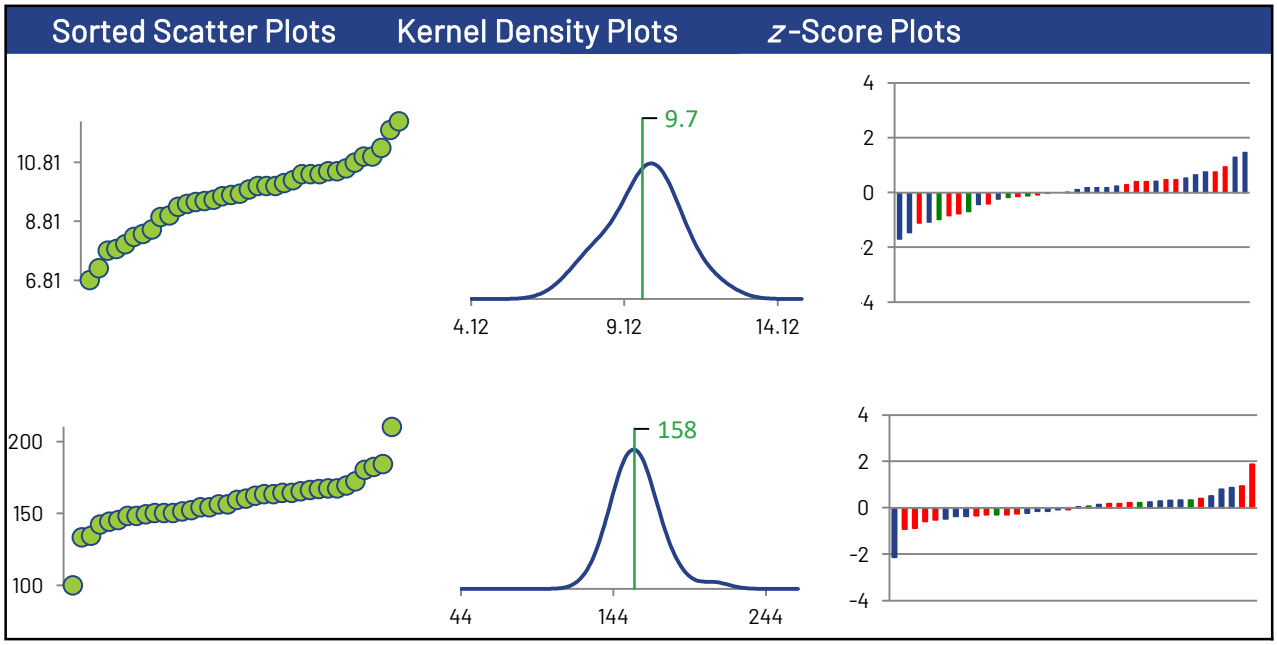
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	9.81	158	54.6	125
Robust Mean µg/g	9.70	158	54.2	125
Uncdrtainty of the Assigned Value µg/g	0.256	2.77	1.22	2.31
Robust Standard Deviation µg/g	1.23	13.3	5.87	11.1
Regression Standard Deviation µg/g	1.70	27.6	9.48	21.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.70	27.6	9.48	21.8
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	1	1	1
Failure Rate %*	2.8			

Methods Used

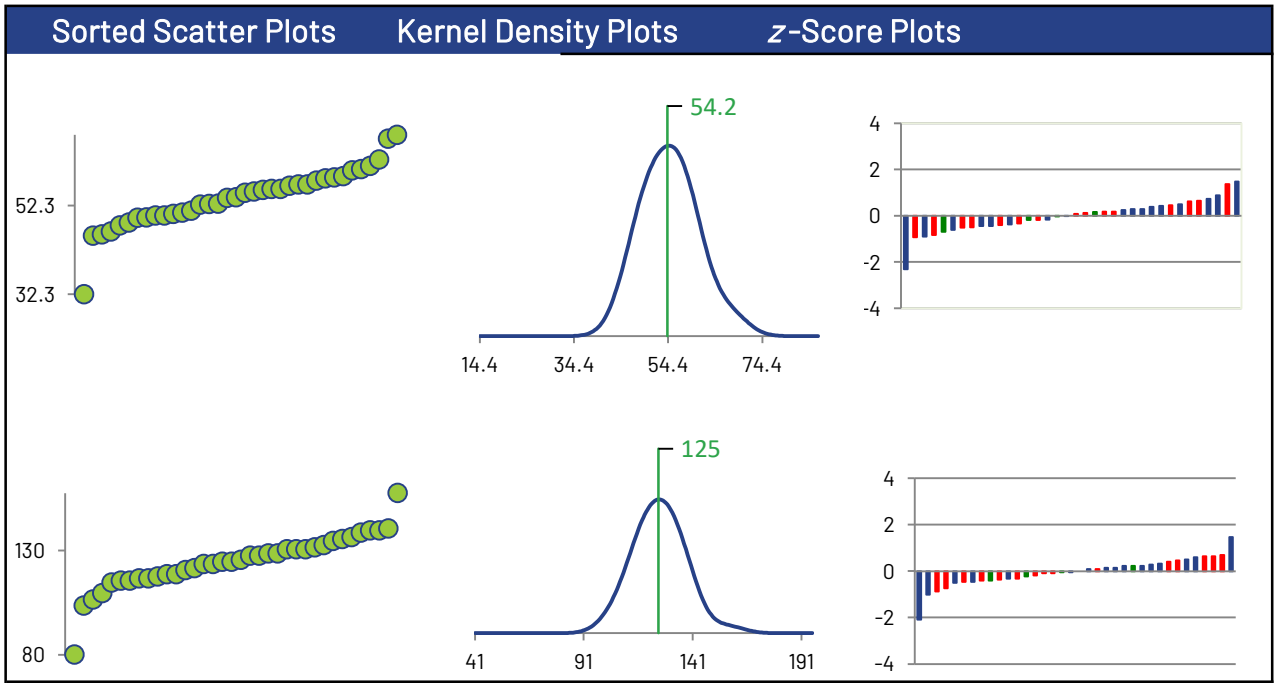
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	17	17	17	17
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	4	4	4	4

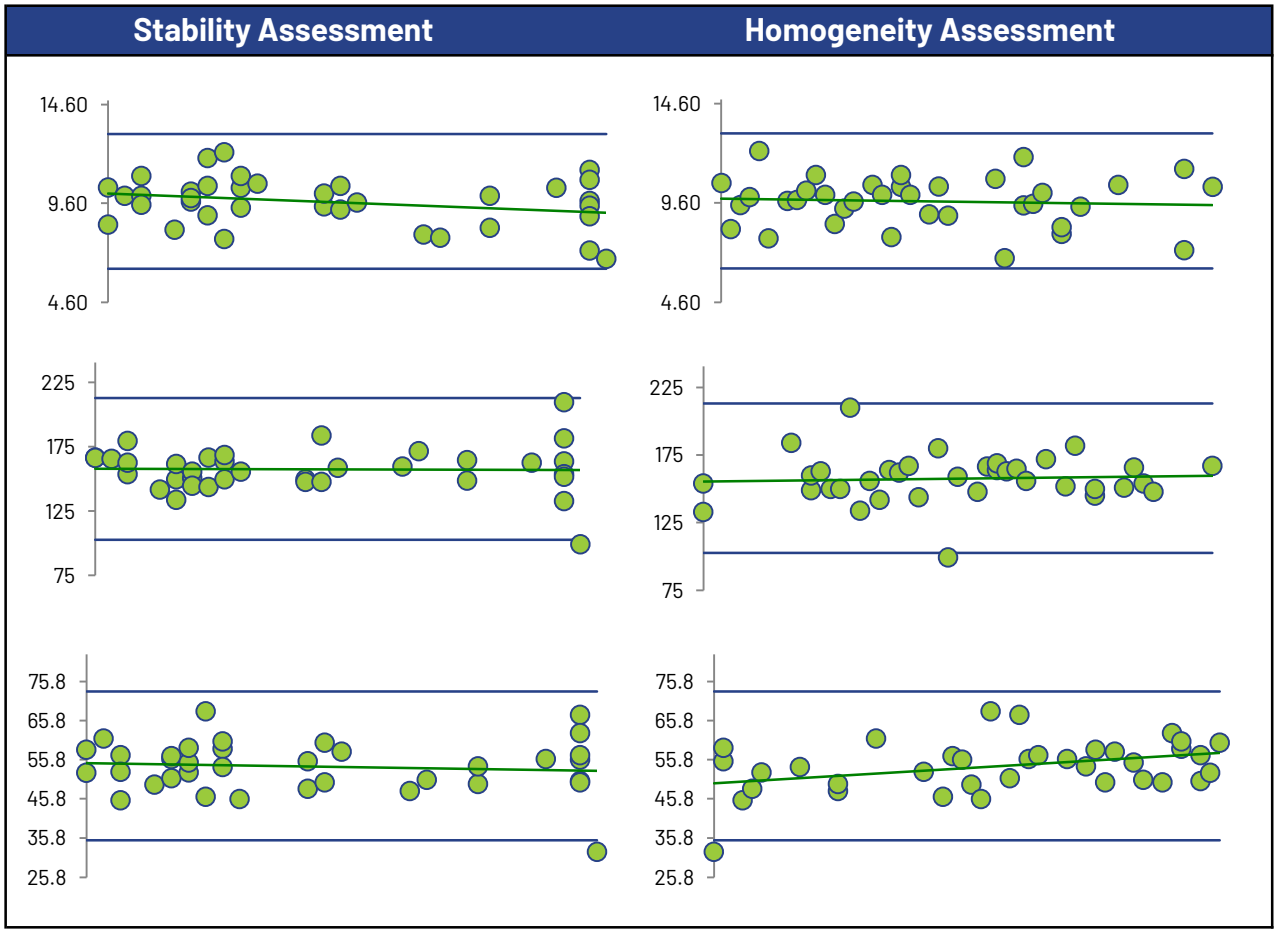
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

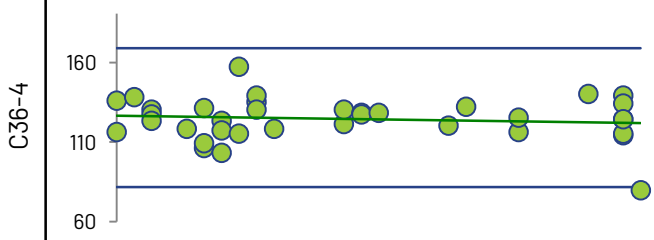
cis-1,2-Dichloroethylene



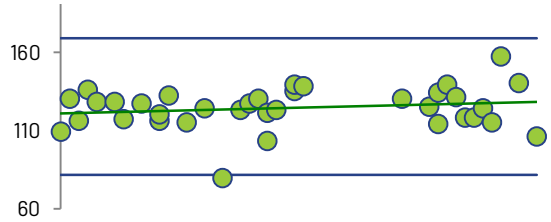


cis-1,2-Dichloroethylene

Stability Assessment



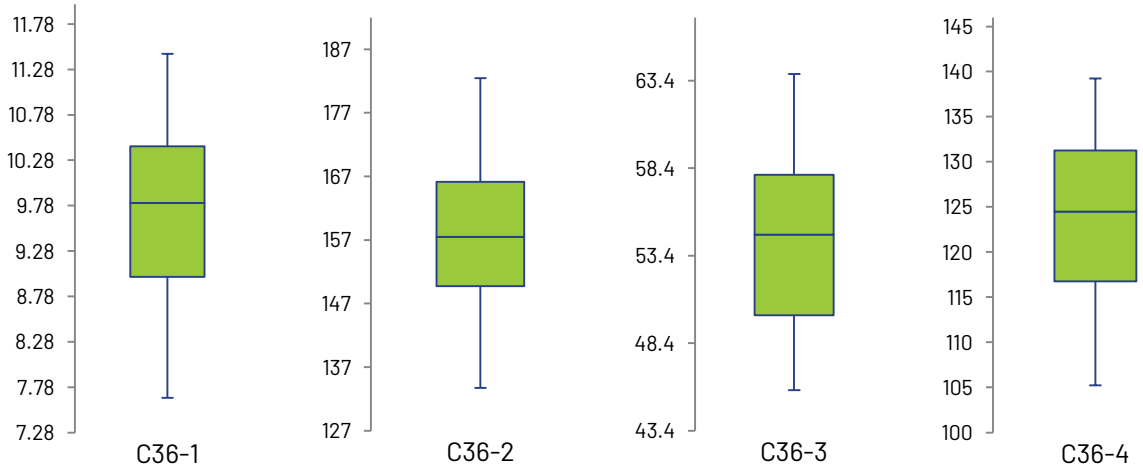
Homogeneity Assessment



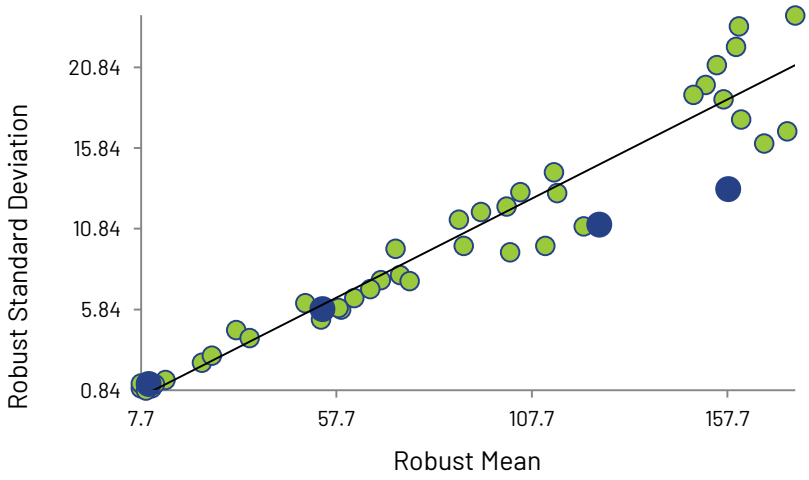
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



cis-1,3-Dichloropropene

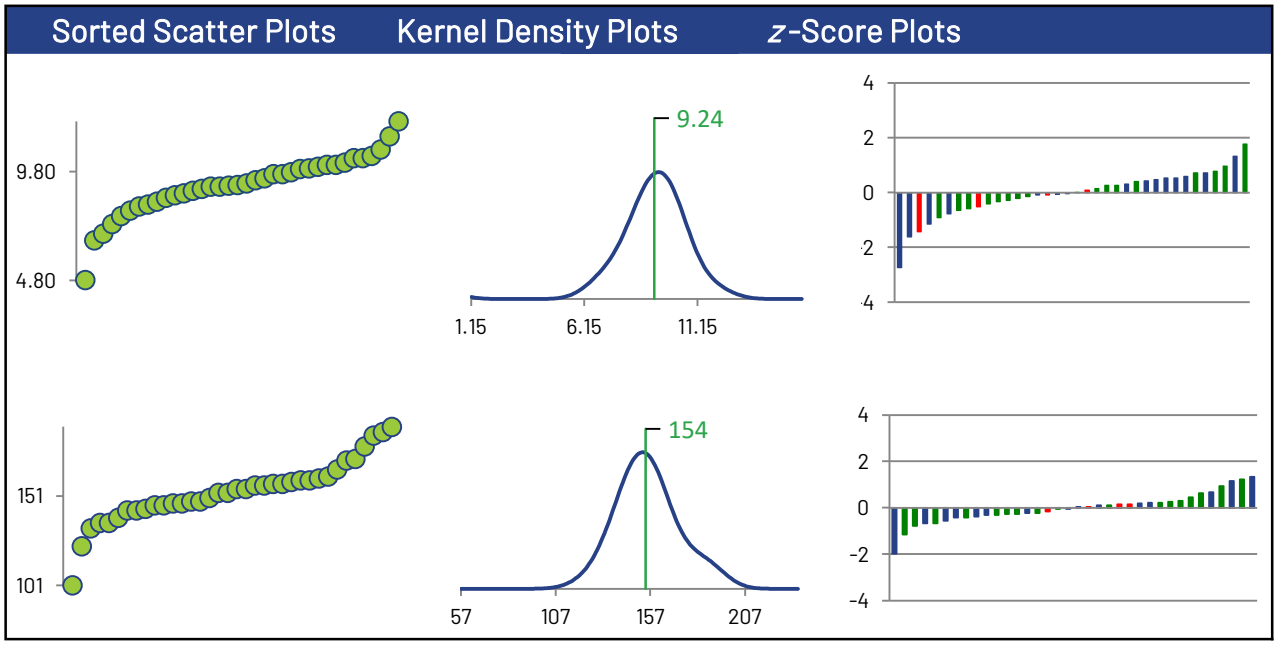
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	9.21	154	54.3	117
Robust Mean µg/g	9.24	154	54.1	119
Uncdrtainty of the Assigned Value µg/g	0.246	3.06	1.44	2.48
Robust Standard Deviation µg/g	1.18	14.7	6.93	11.9
Regression Standard Deviation µg/g	1.62	26.9	9.47	20.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.62	26.9	9.47	20.9
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	0	1	1
Failure Rate %*	2.8			

Methods Used

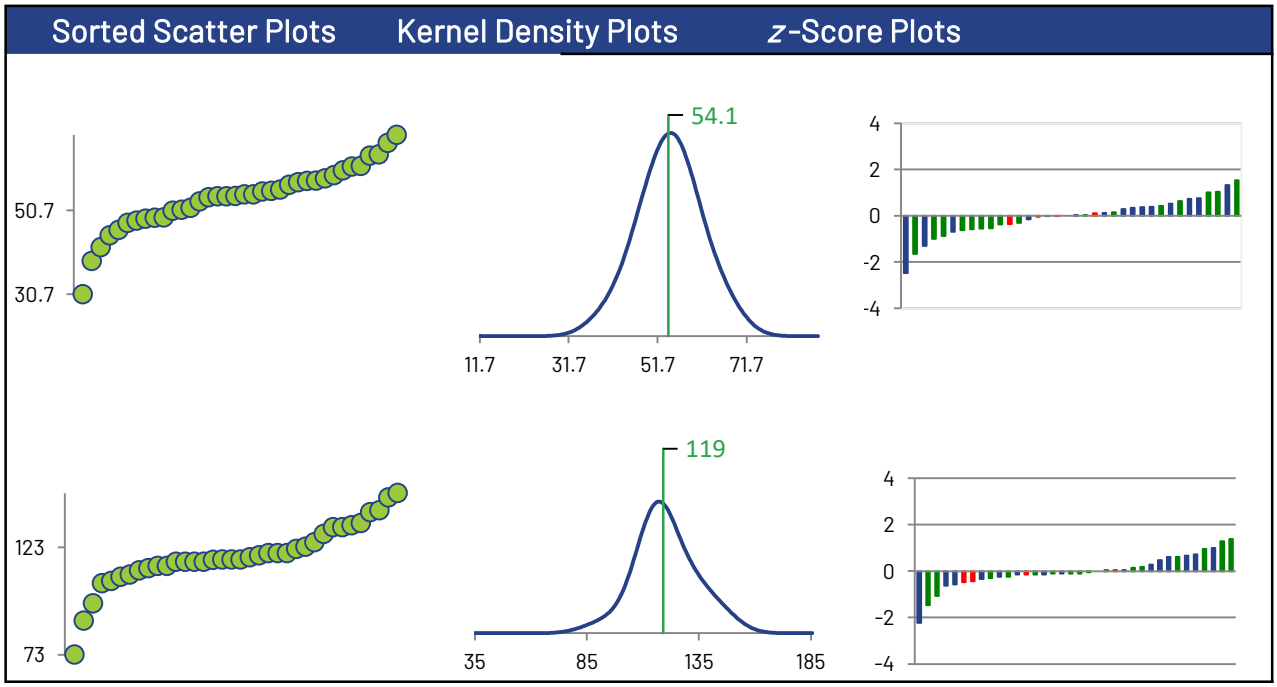
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS (Red)	4	4	4	4
GC/MS - PURGE AND TRAP (Green)	17	17	17	17

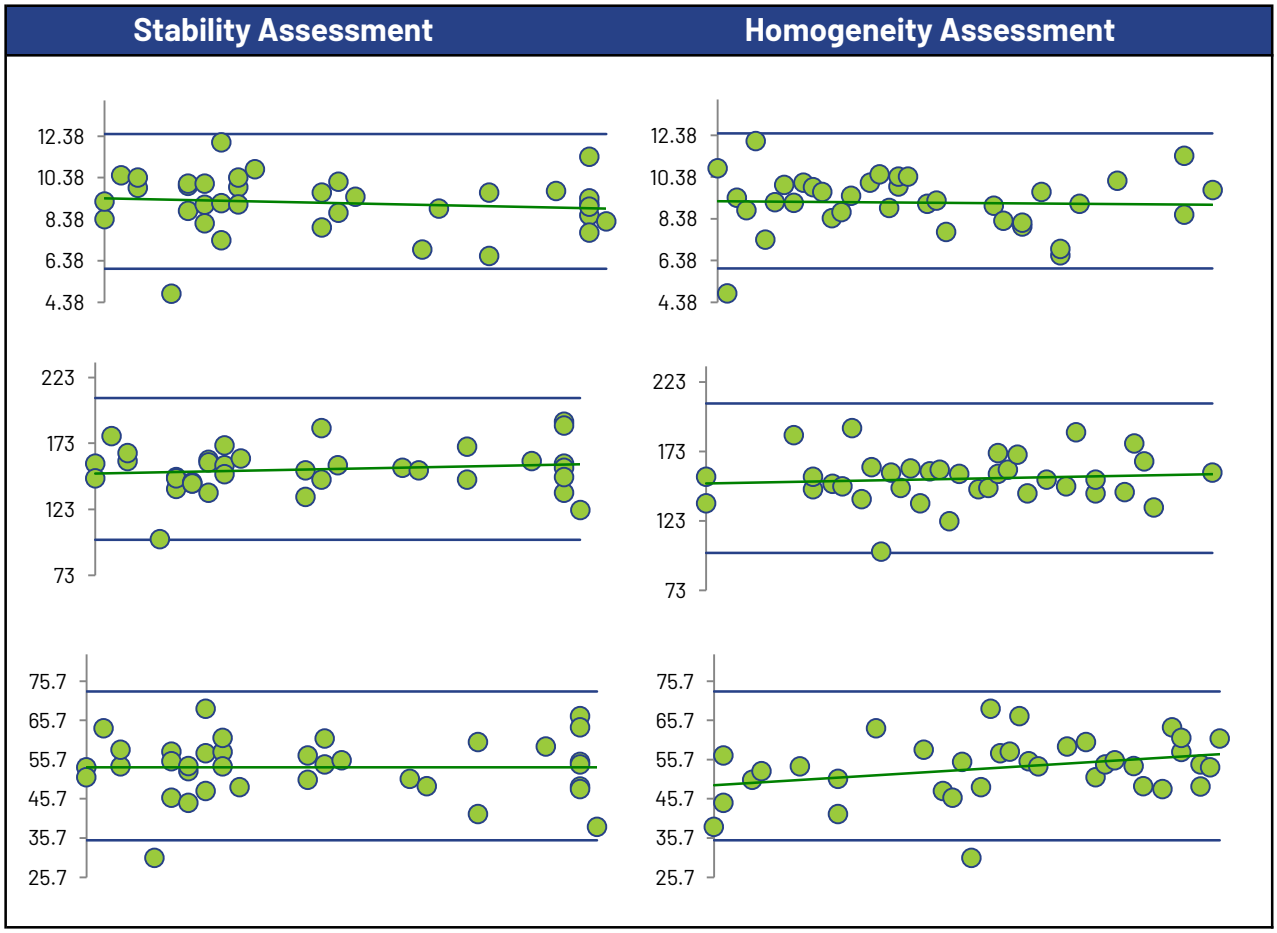
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

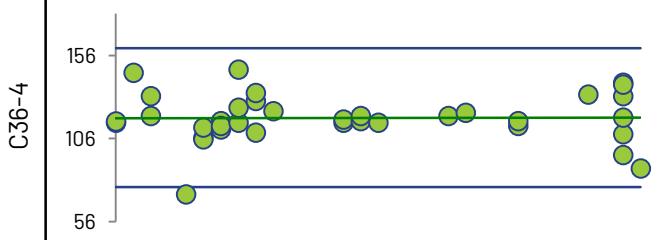
cis-1,3-Dichloropropene



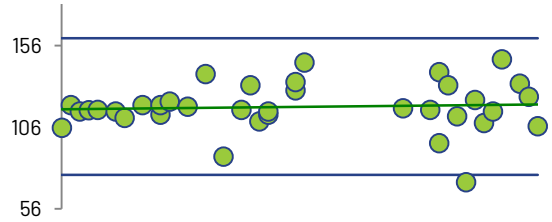


cis-1,3-Dichloropropene

Stability Assessment



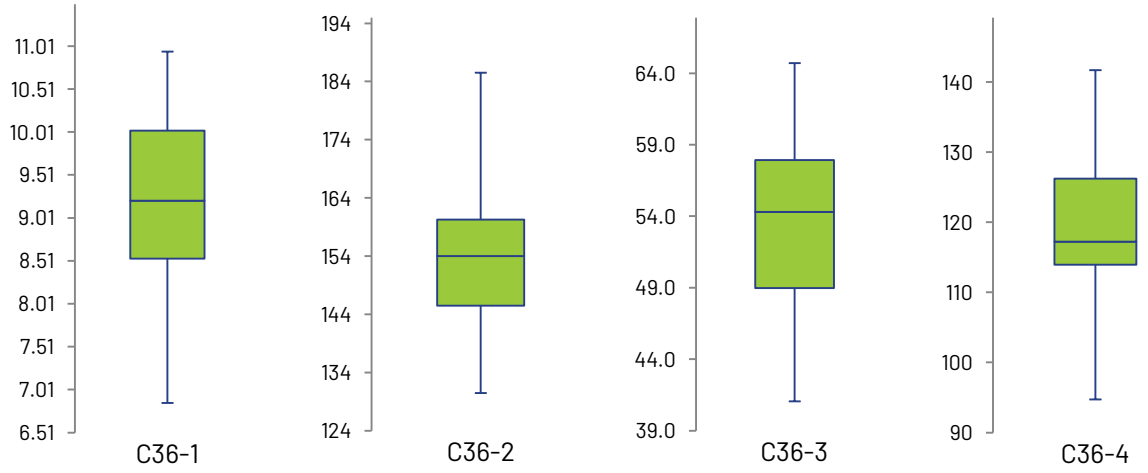
Homogeneity Assessment



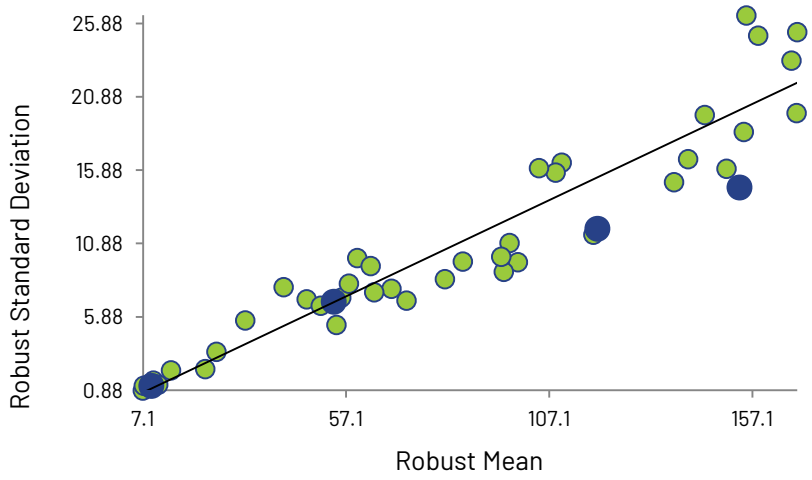
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Dichloromethane

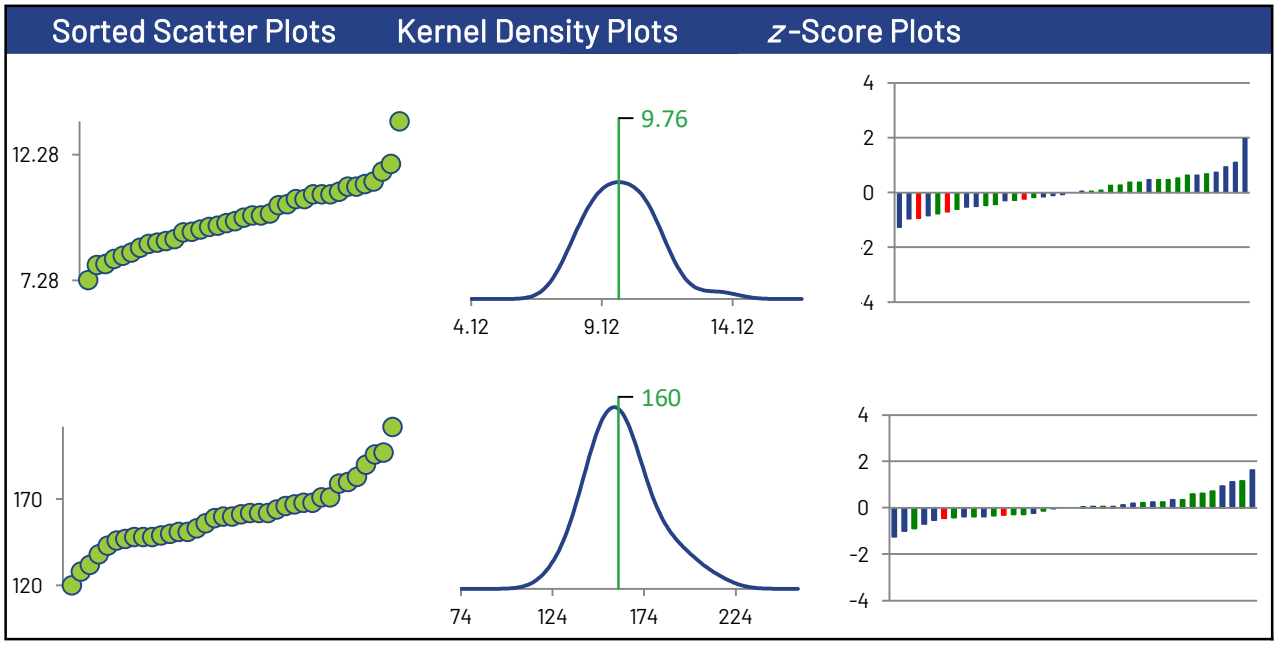
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.76	160	56.8	124
Robust Mean µg/g	9.76	160	56.7	126
Uncdrtainty of the Assigned Value µg/g	0.267	3.62	1.86	3.66
Robust Standard Deviation µg/g	1.30	17.6	9.07	17.8
Regression Standard Deviation µg/g	1.95	32.0	11.3	25.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.95	32.0	11.3	25.3
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

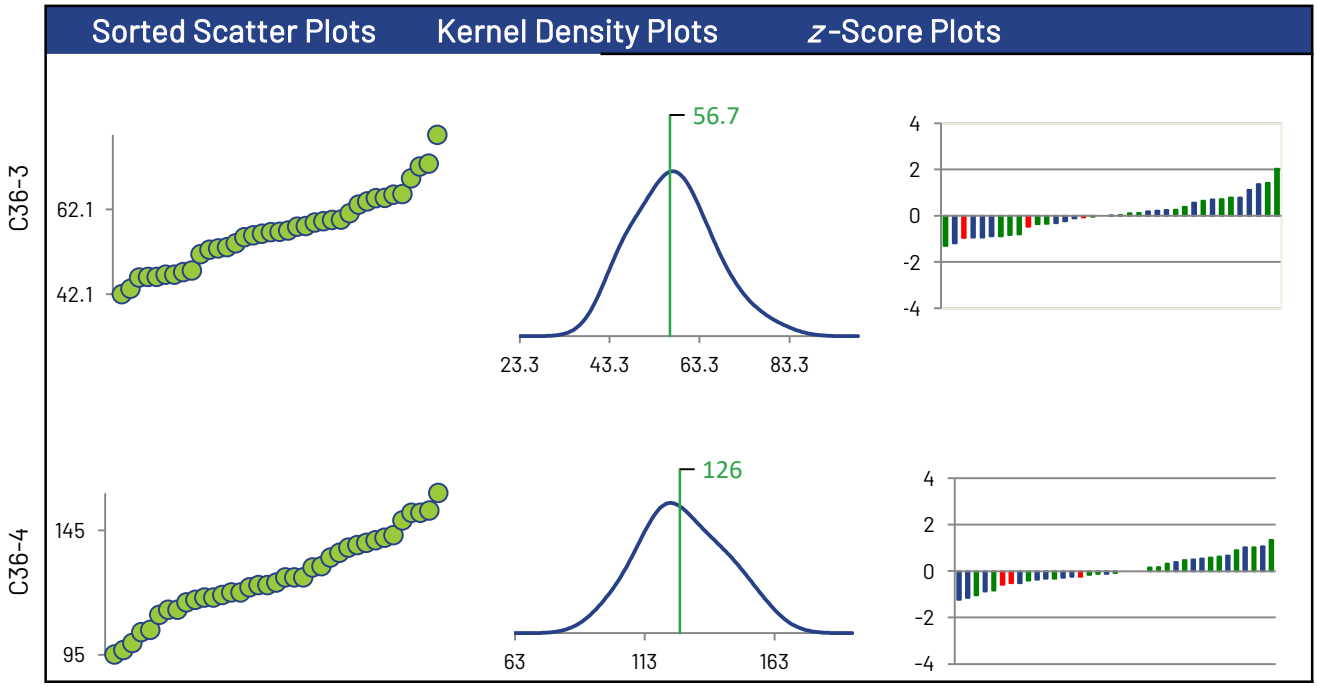
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	17	17	17	17
GC/MS (Red)	3	3	3	3
GC/MS - PURGE AND TRAP (Green)	17	17	17	17

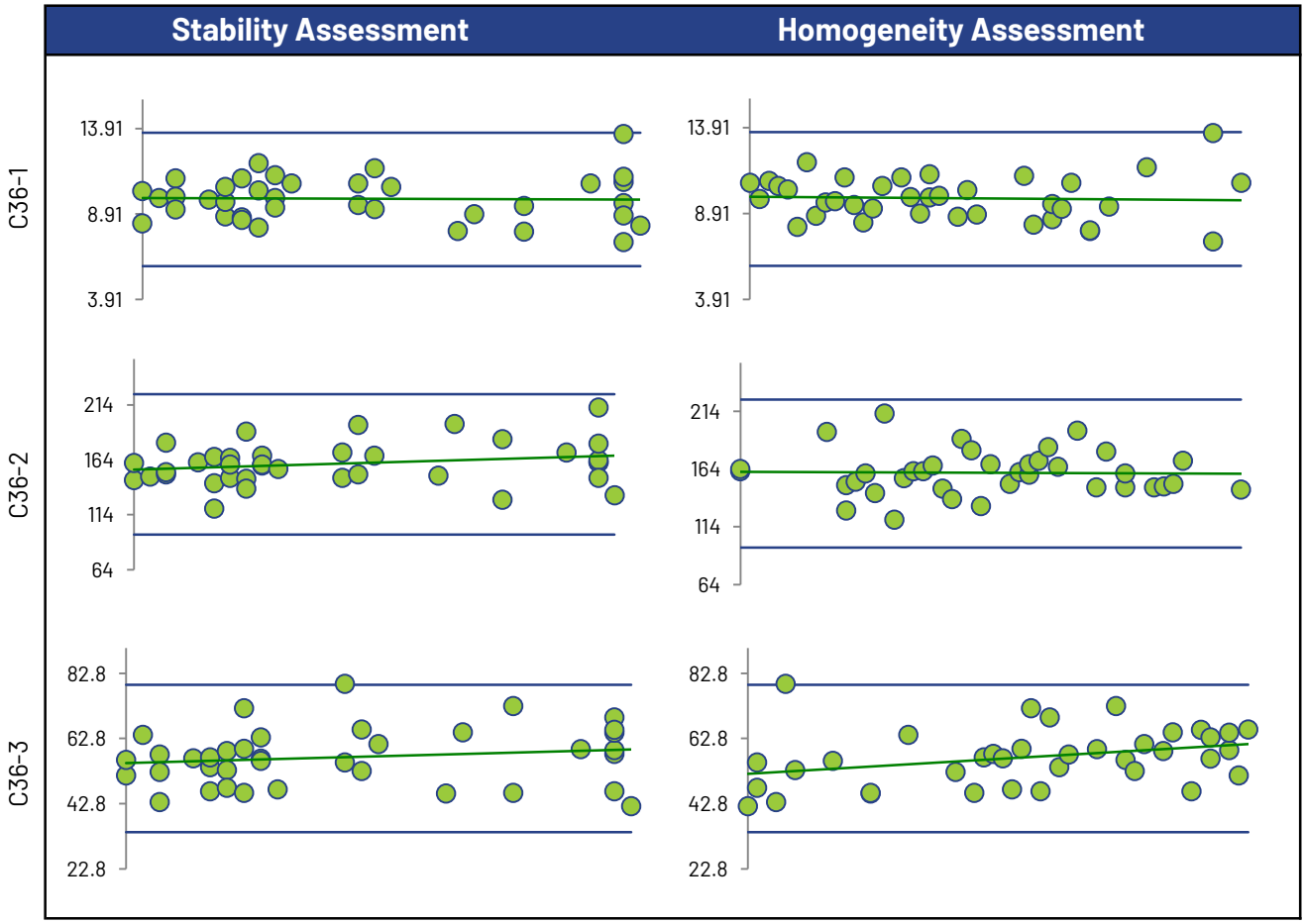
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

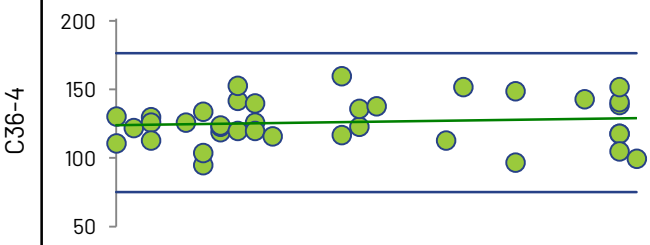
Dichloromethane



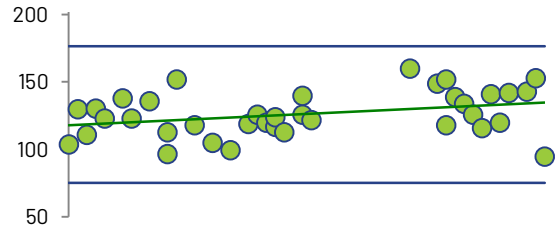


Dichloromethane

Stability Assessment



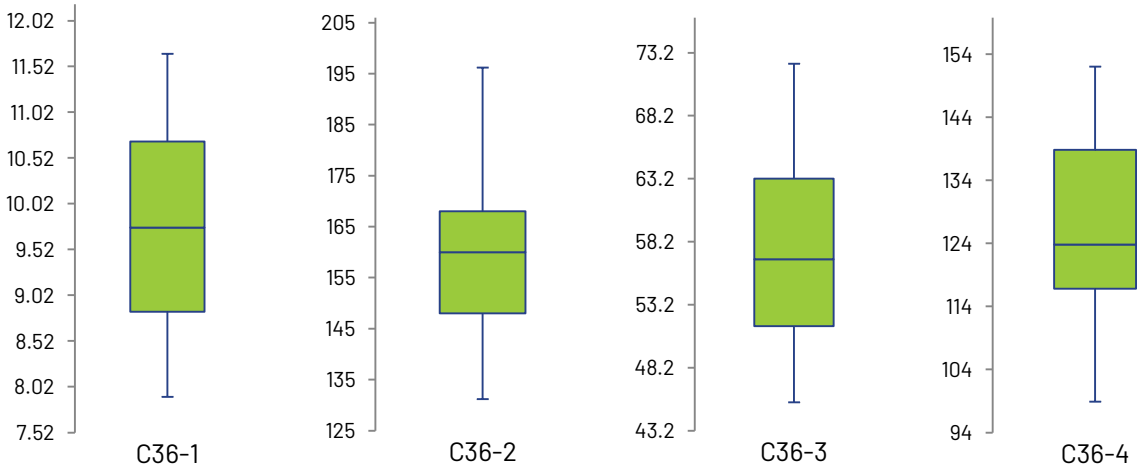
Homogeneity Assessment



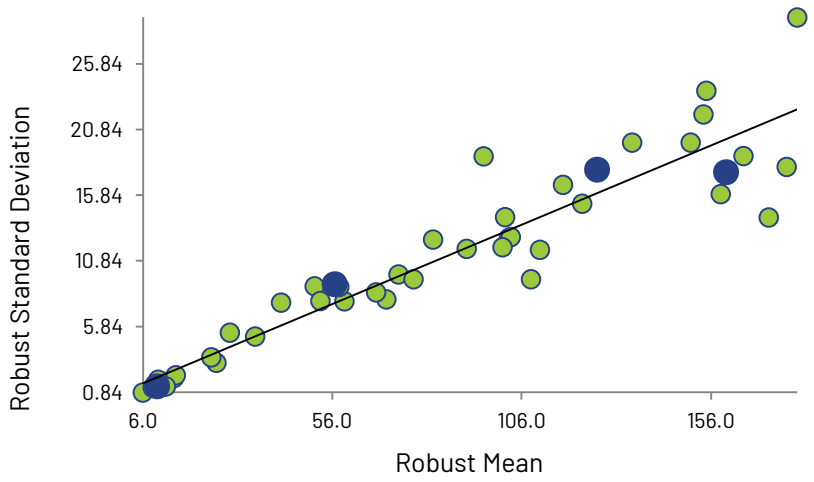
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Ethylbenzene

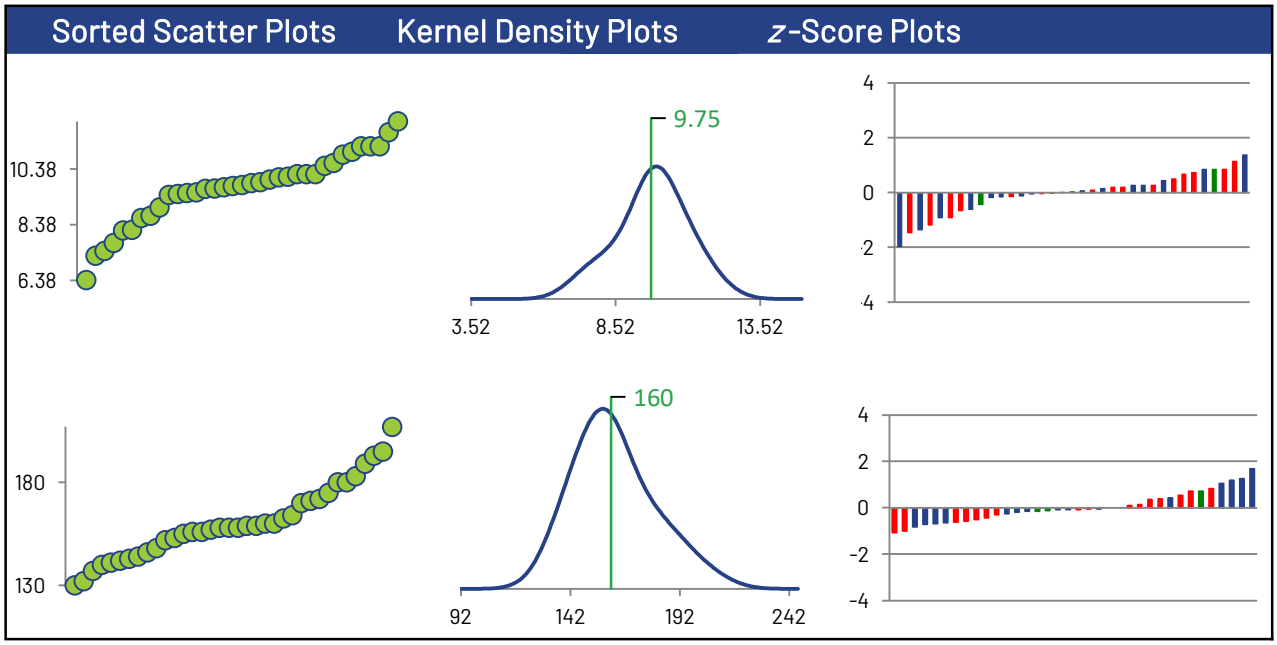
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	35	36	36	36
Median µg/g	9.80	158	58.1	127
Robust Mean µg/g	9.75	160	56.0	124
Uncdrtainty of the Assigned Value µg/g	0.260	3.81	1.67	3.25
Robust Standard Deviation µg/g	1.23	18.3	8.02	15.6
Regression Standard Deviation µg/g	1.71	28.0	9.81	21.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.71	28.0	9.81	21.8
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

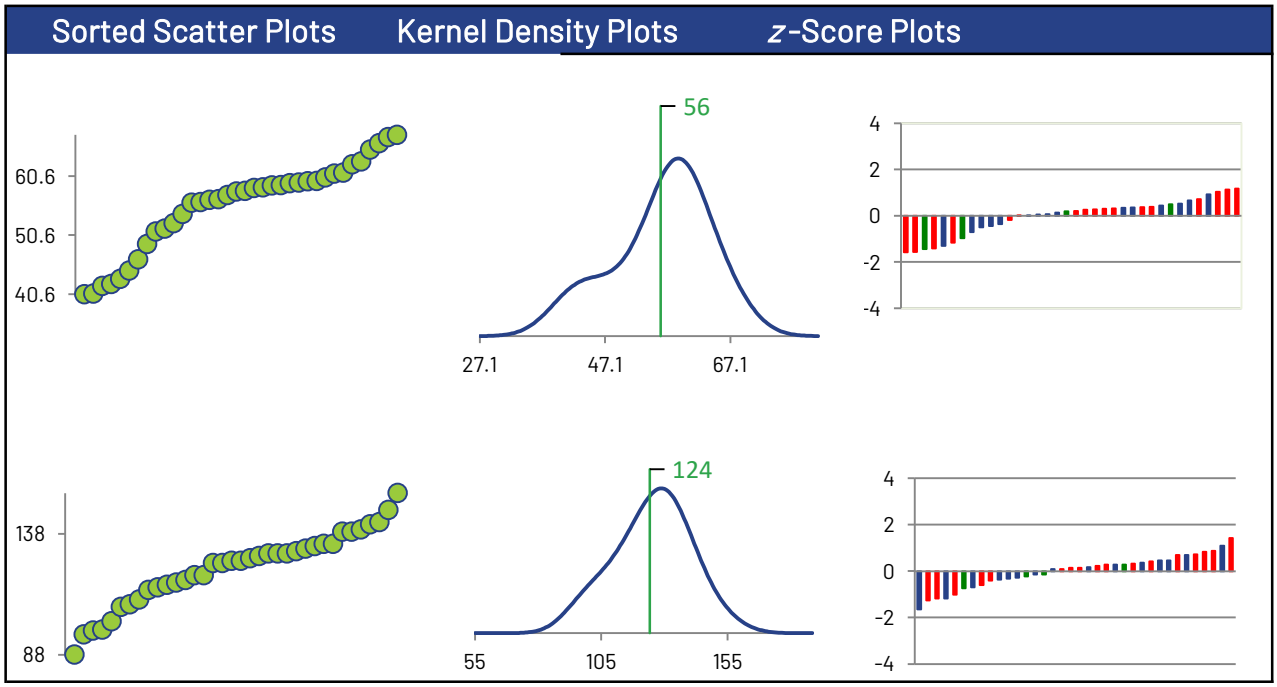
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	3	4	4	4

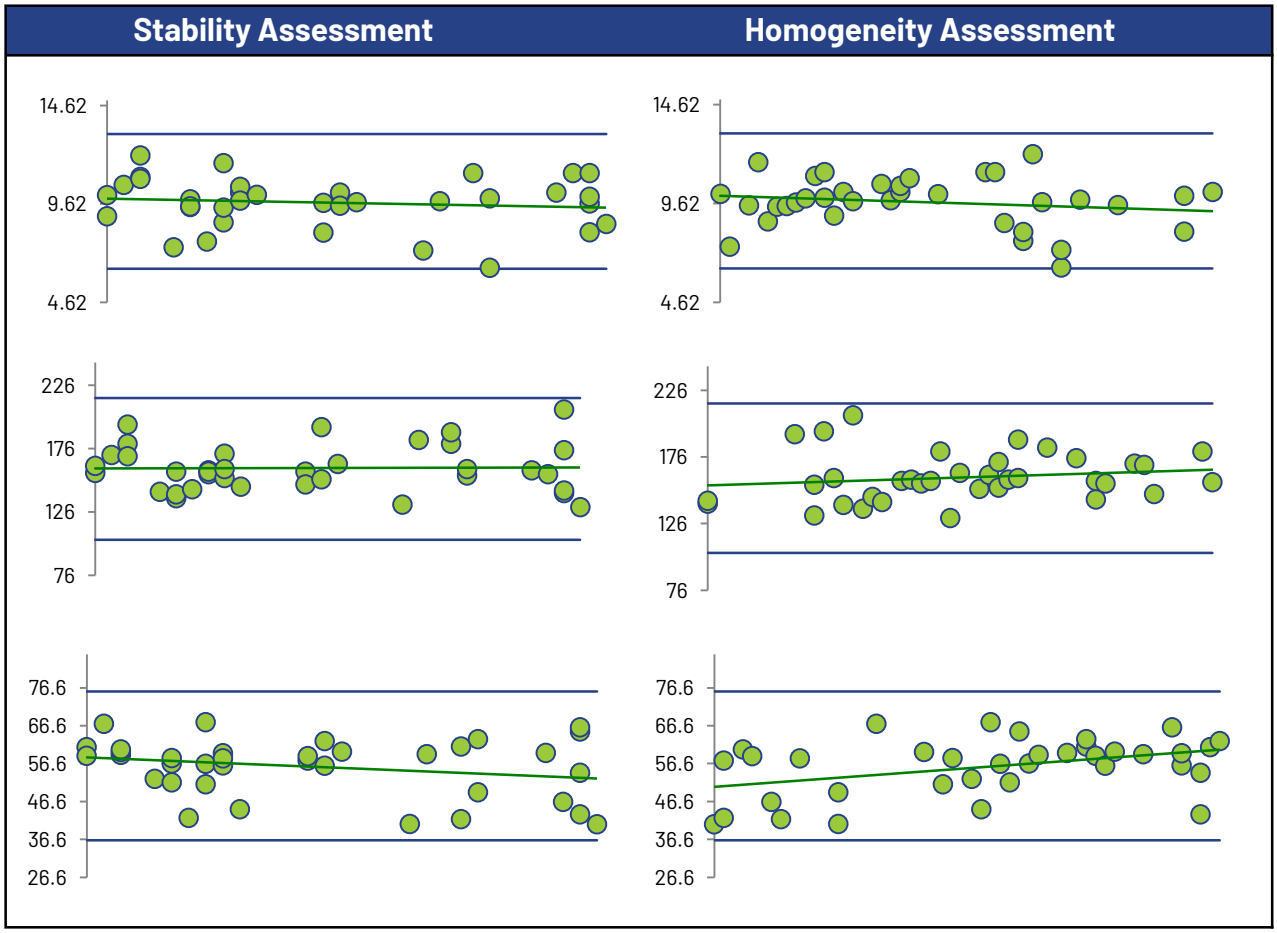
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

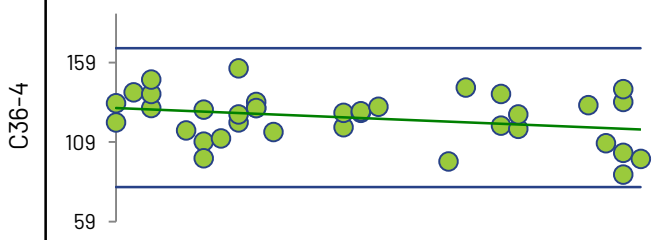
Ethylbenzene



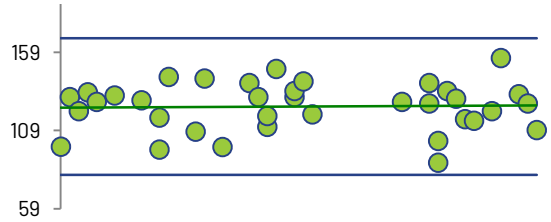


Ethylbenzene

Stability Assessment



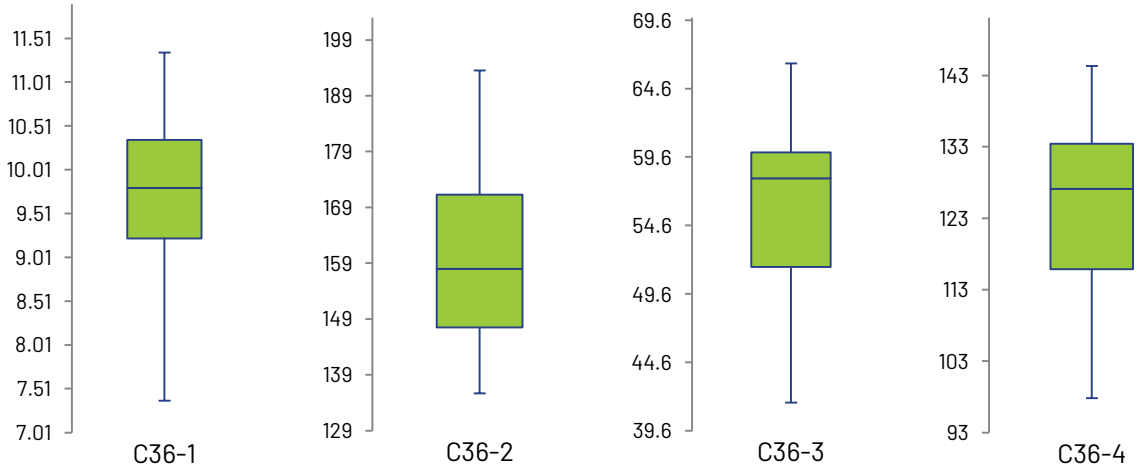
Homogeneity Assessment



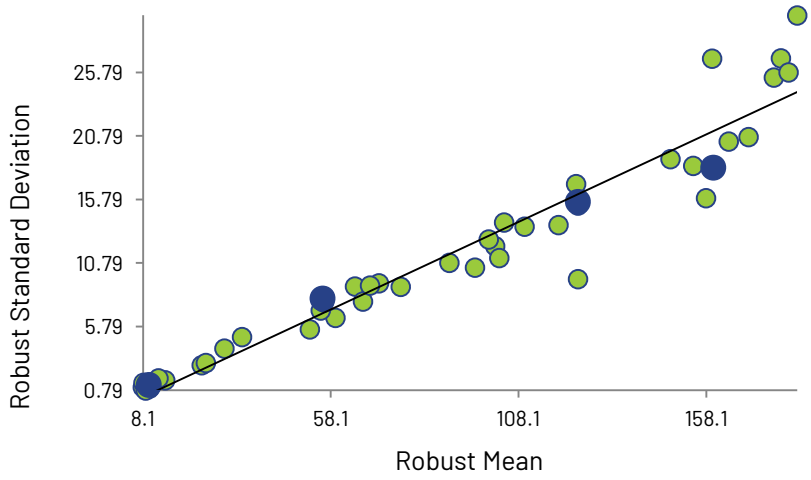
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Ethylene Dibromide

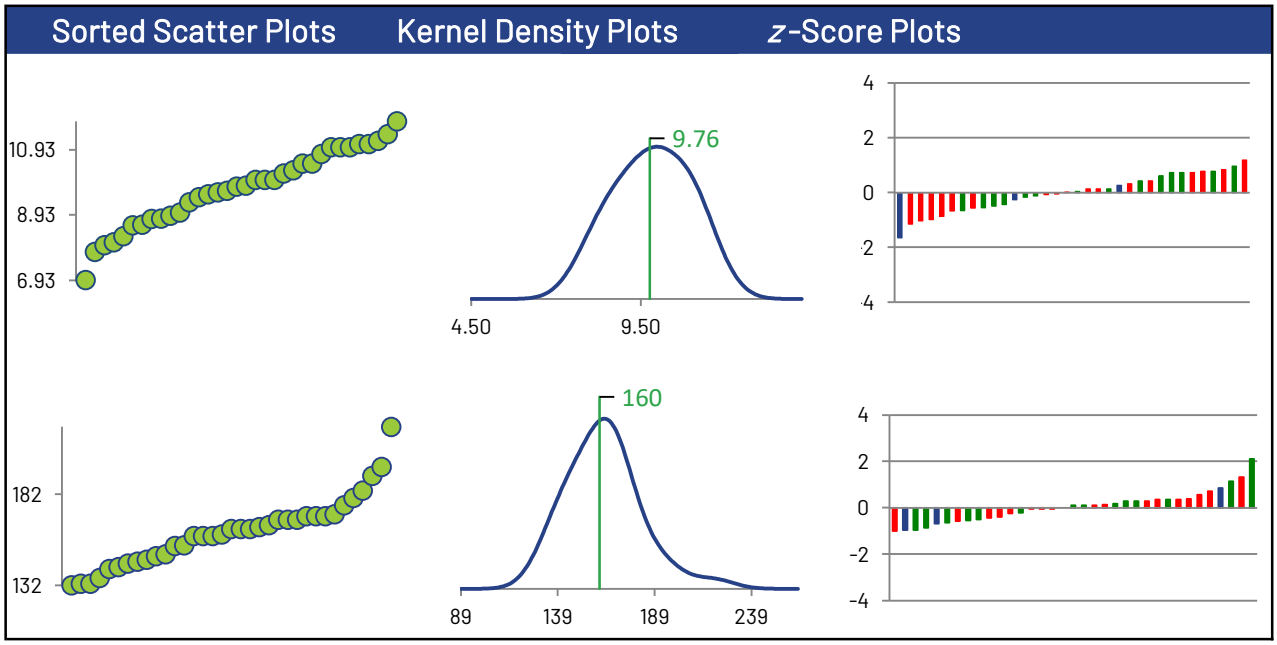
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	34	35	35	35
Median µg/g	9.82	163	57.5	126
Robust Mean µg/g	9.76	160	56.8	127
Uncdrtainty of the Assigned Value µg/g	0.270	3.80	1.51	2.62
Robust Standard Deviation µg/g	1.26	18.0	7.15	12.4
Regression Standard Deviation µg/g	1.71	28.0	9.95	22.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.71	28.0	9.95	22.2
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

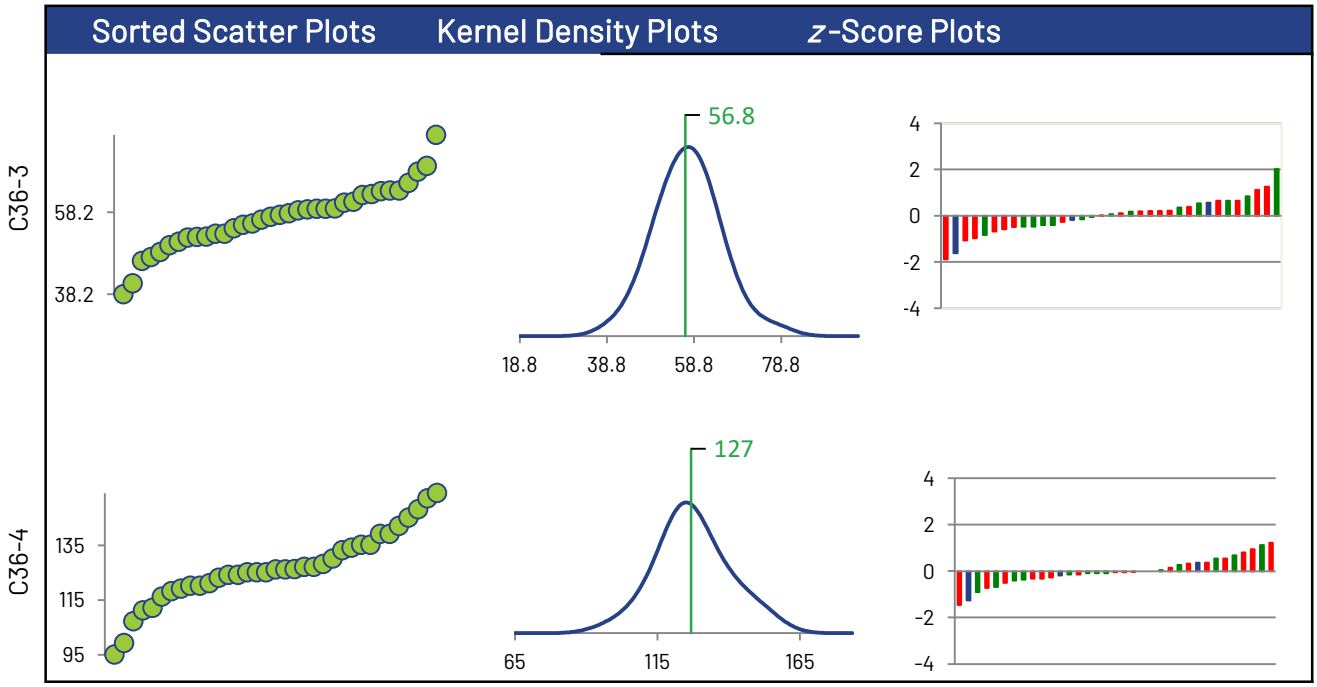
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	17	18	18	18
GC/MS - HEADSPACE (Green)	14	14	14	14

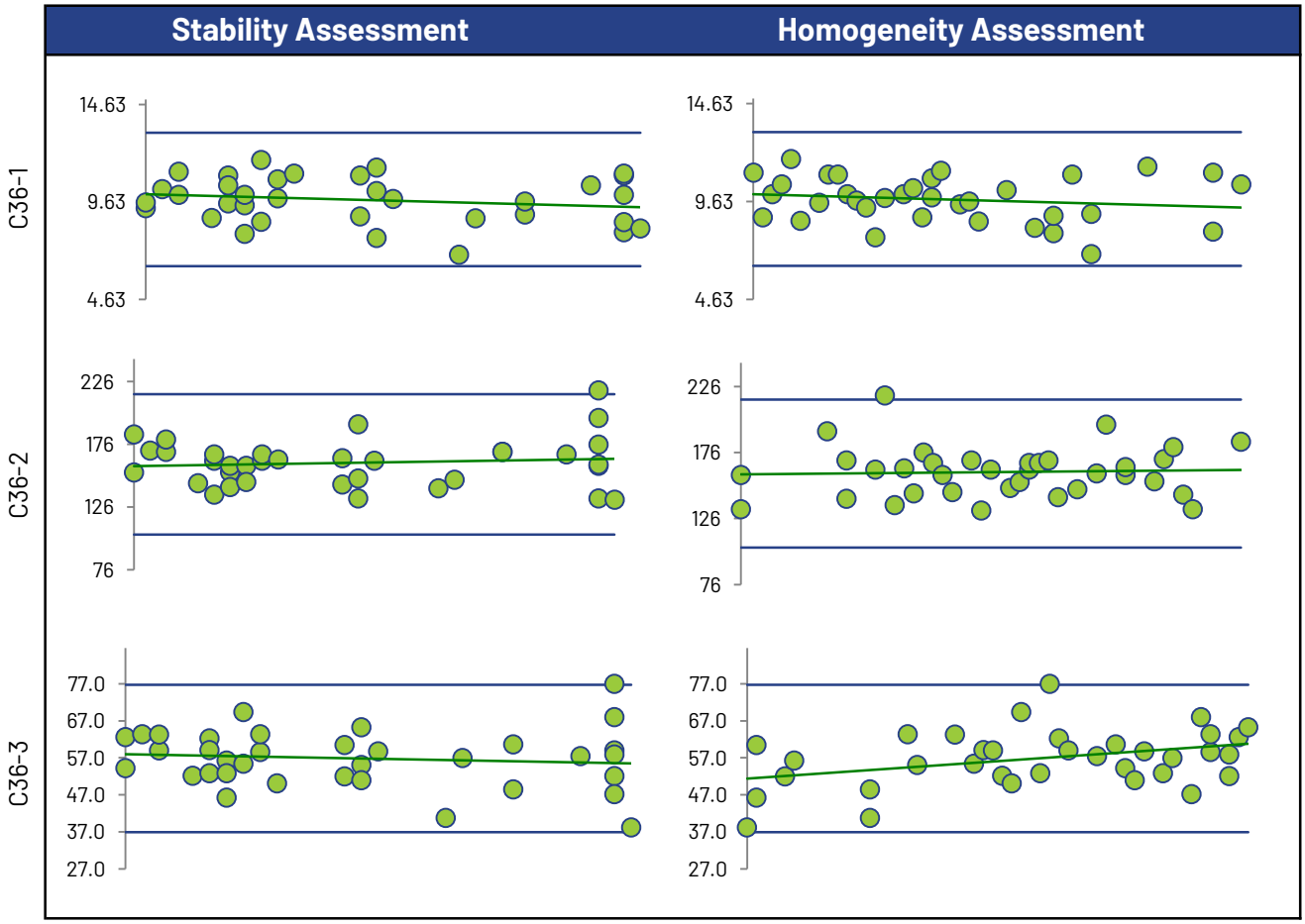
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

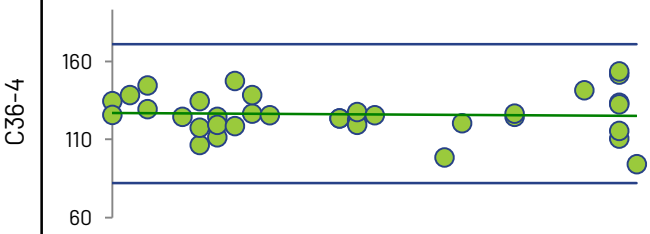
Ethylene Dibromide



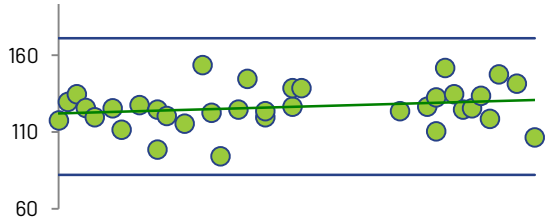


Ethylene Dibromide

Stability Assessment



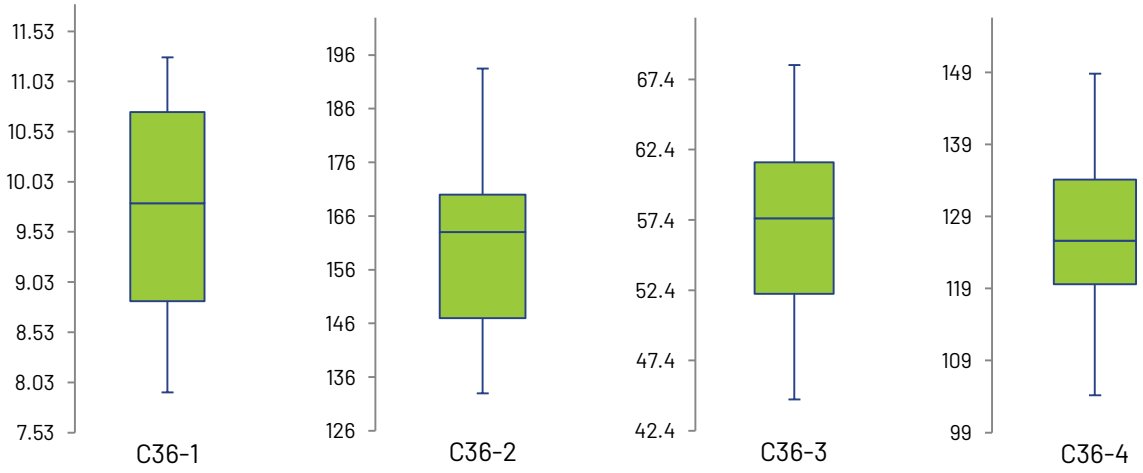
Homogeneity Assessment



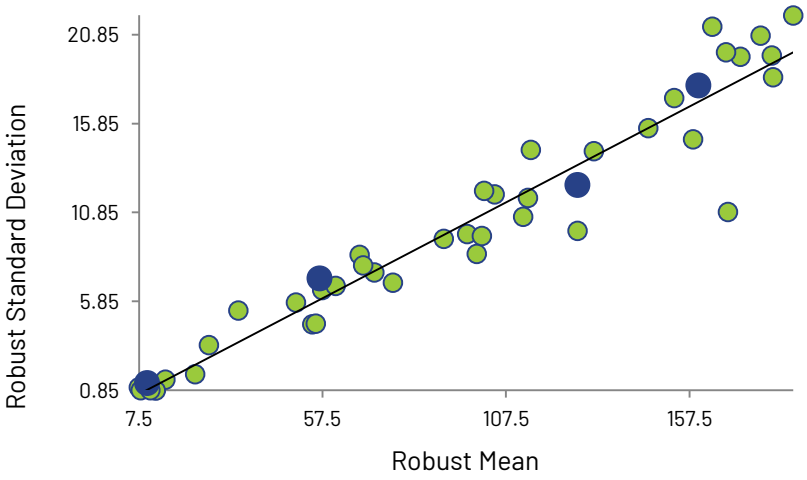
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



m,p-Xylene

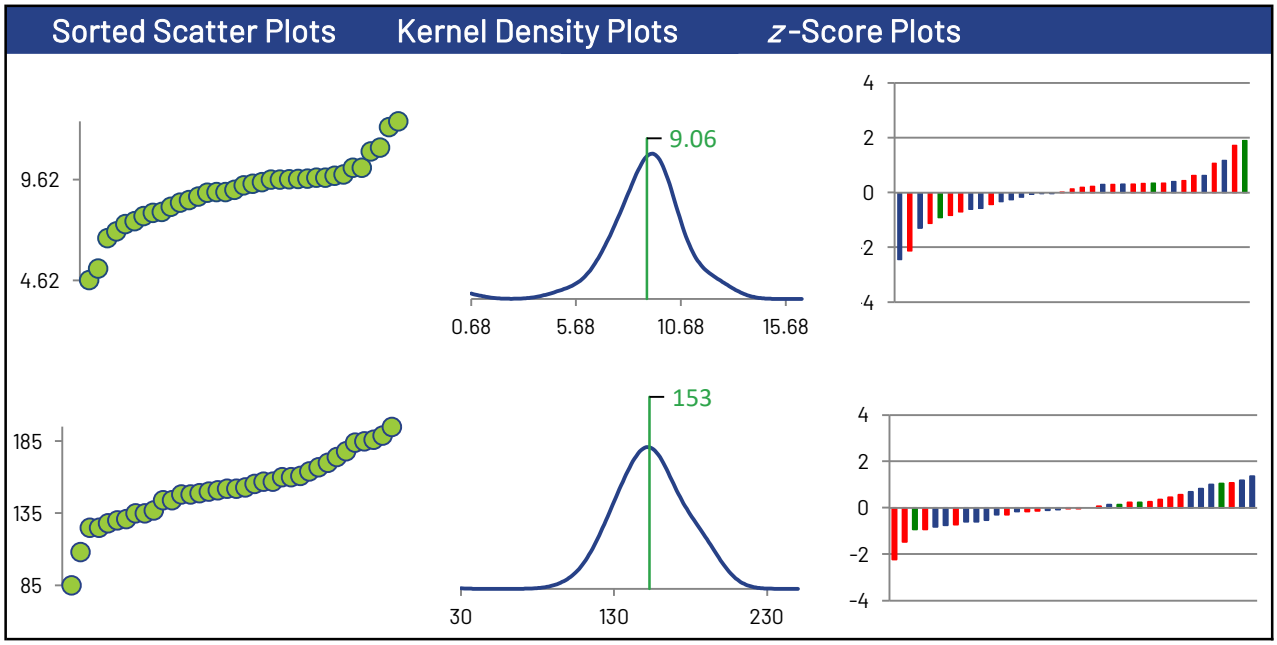
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	35	36	36	36
Median µg/g	9.32	152	54.7	120
Robust Mean µg/g	9.06	153	52.8	118
Uncdrtainty of the Assigned Value µg/g	0.292	4.71	1.83	3.98
Robust Standard Deviation µg/g	1.38	22.6	8.77	19.1
Regression Standard Deviation µg/g	1.81	30.6	10.6	23.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.81	30.6	10.6	23.6
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	2	1	1	1
Failure Rate %*	2.8			

Methods Used

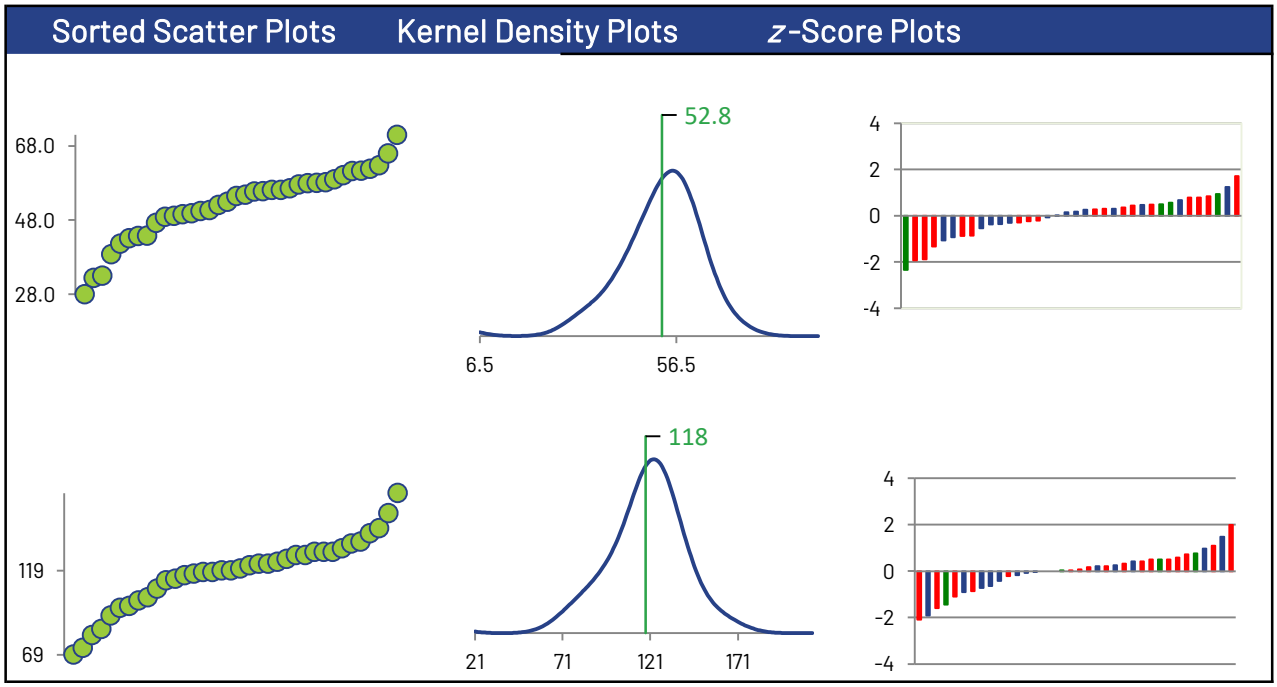
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	3	4	4	4

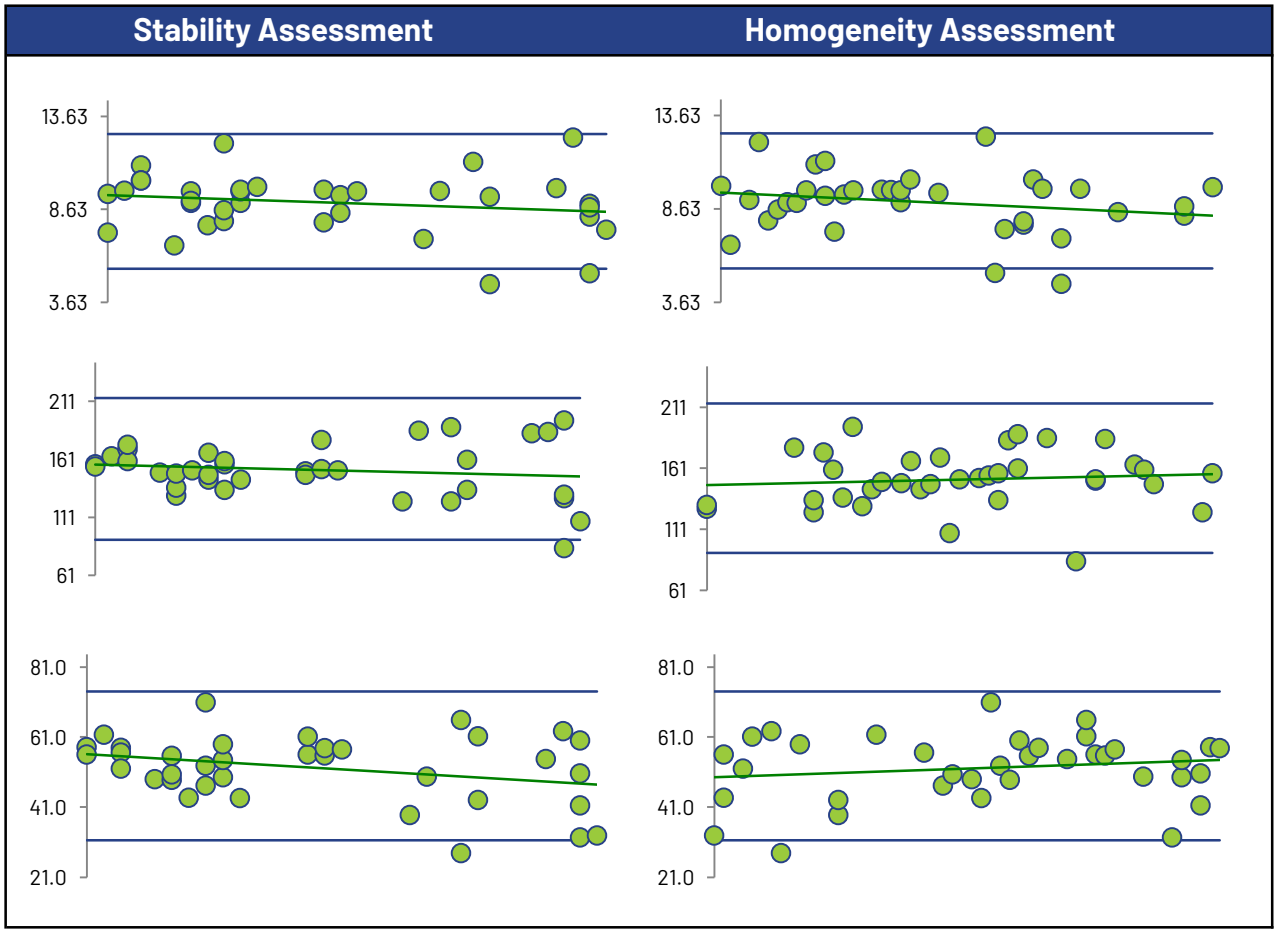
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

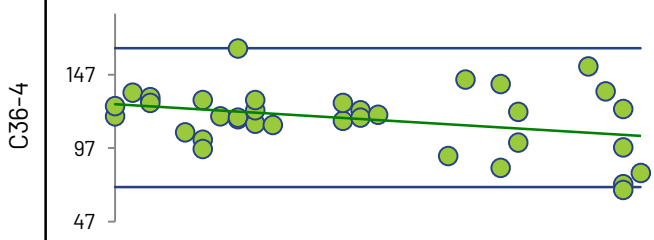
m,p-Xylene


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
68.0
48.0
28.0
52.8
6.5
56.5
4
2
0
-2
-4
C36-4
119
69
118
21
71
121
171

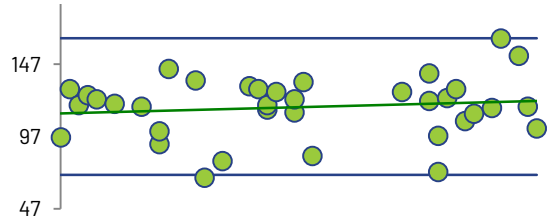

Stability Assessment
Homogeneity Assessment
C36-1
13.63
8.63
3.63
C36-2
211
161
111
61
C36-3
81.0
61.0
41.0
21.0

m,p-Xylene

Stability Assessment



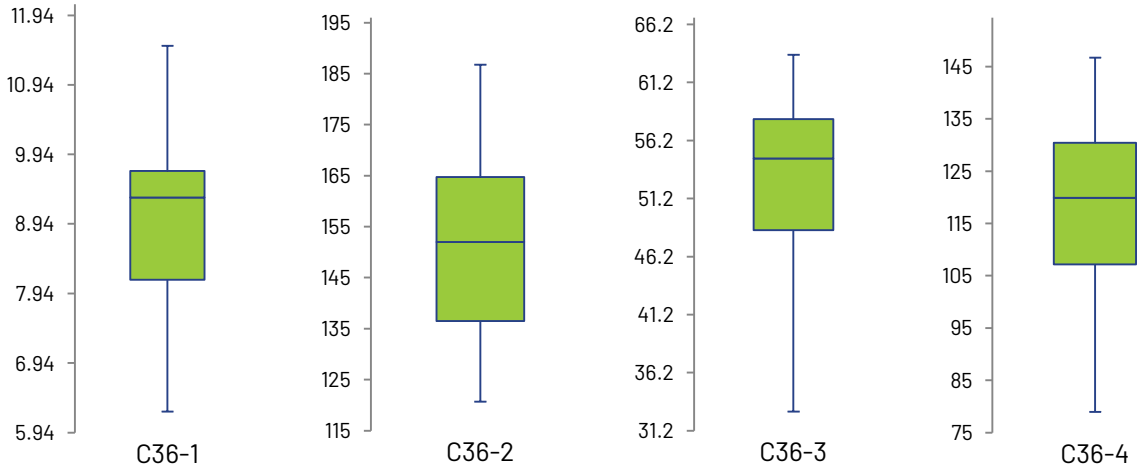
Homogeneity Assessment



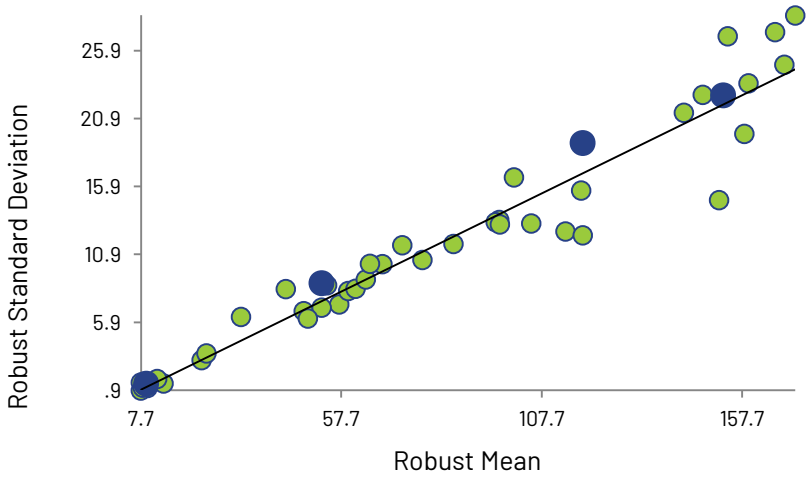
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Methyl ethyl ketone

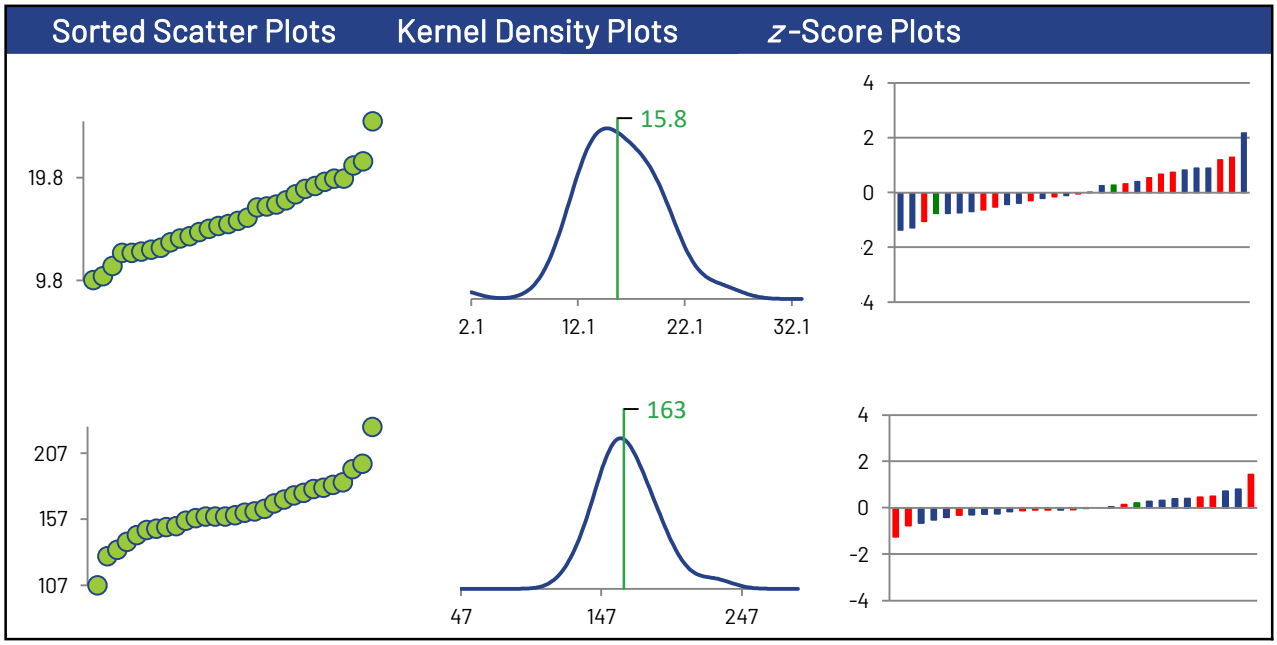
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	30	29	29	29
Median µg/g	15.5	160	59.6	122
Robust Mean µg/g	15.8	163	61.6	127
Uncdrtainty of the Assigned Value µg/g	0.849	4.76	2.34	4.32
Robust Standard Deviation µg/g	3.72	20.5	10.1	18.6
Regression Standard Deviation µg/g	4.35	44.9	16.9	35.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	4.35	44.9	16.9	35.0
Flagged Outliers	0	1	0	1
|z|>3.0	0	0	0	0
2<|z|<3	1	0	1	0
Failure Rate %*	3.3			

Methods Used

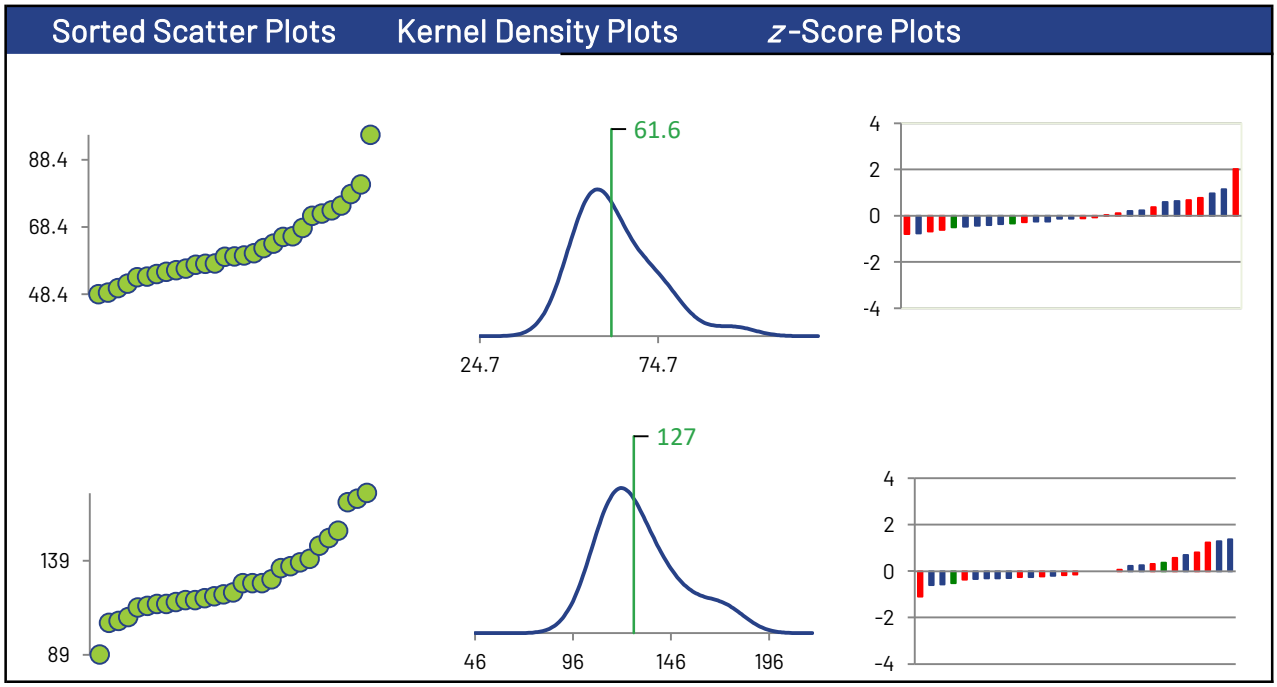
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	16	15	15	15
GC/MS - HEADSPACE (Red)	12	12	12	12
GC/MS (Green)	2	2	2	2

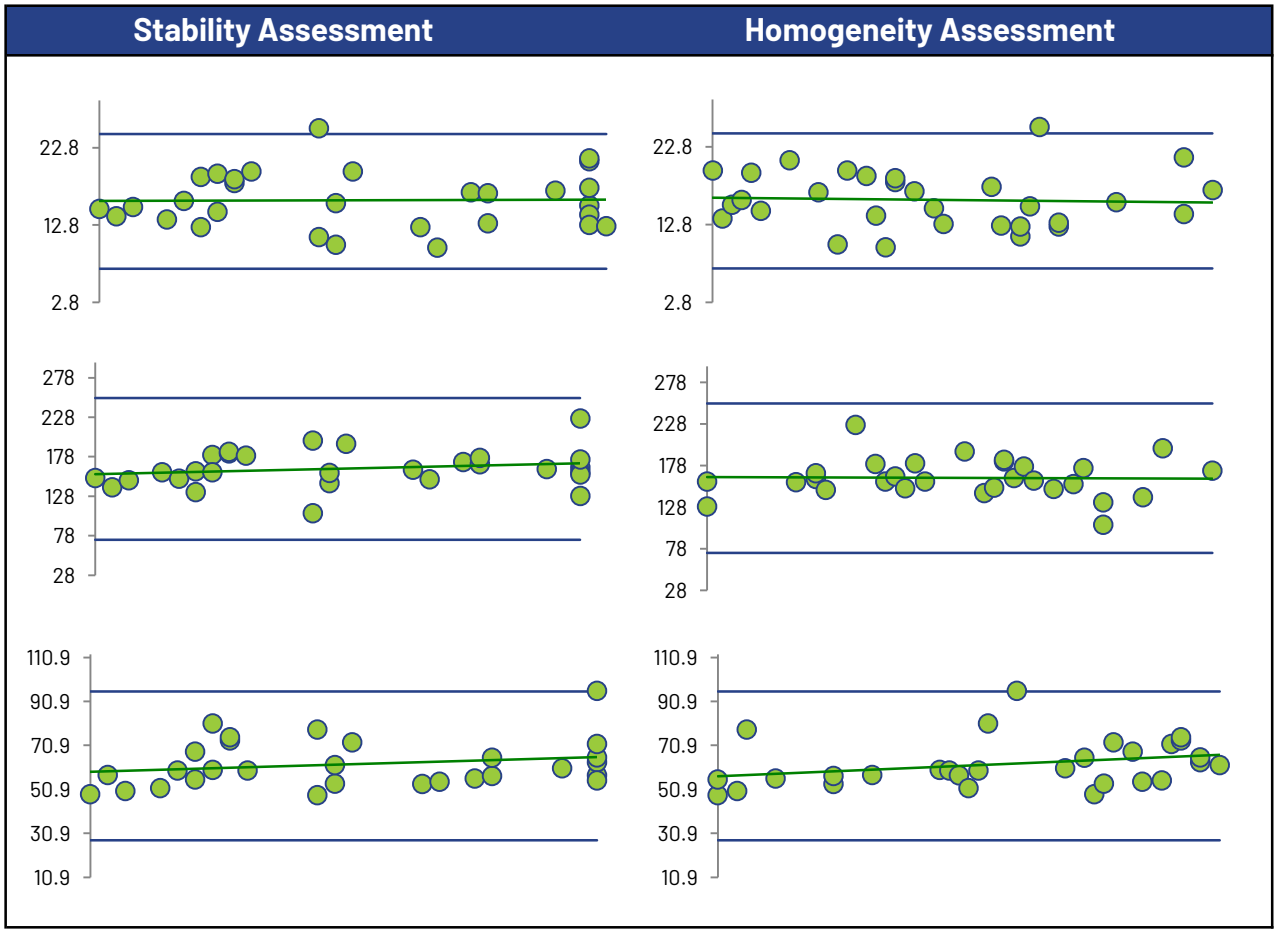
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

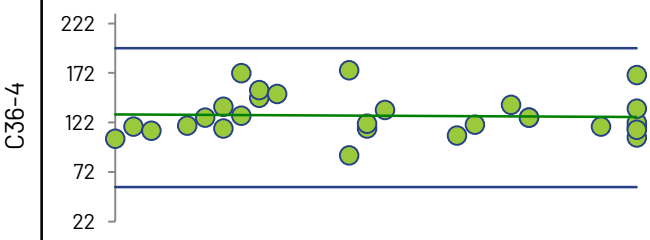
Methyl ethyl ketone



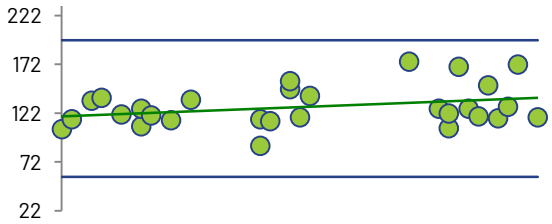


Methyl ethyl ketone

Stability Assessment



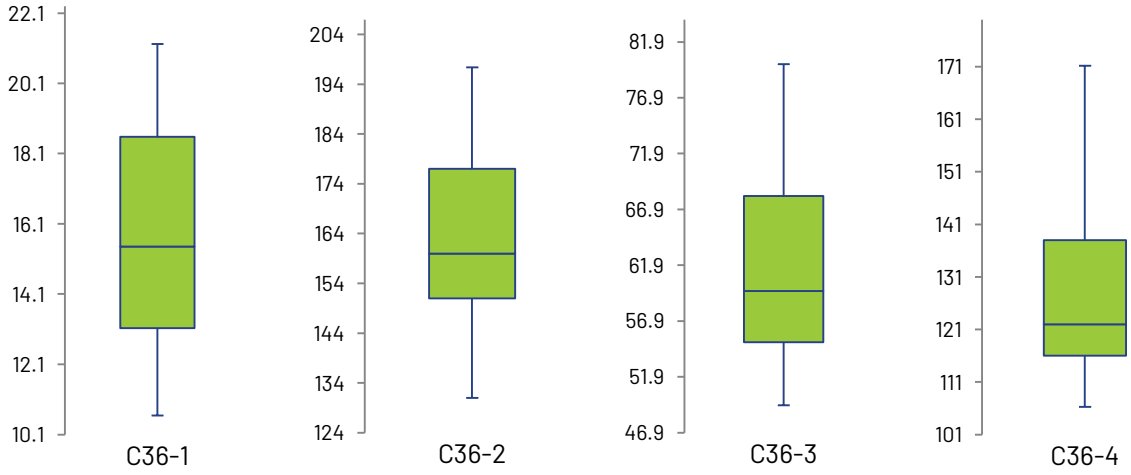
Homogeneity Assessment



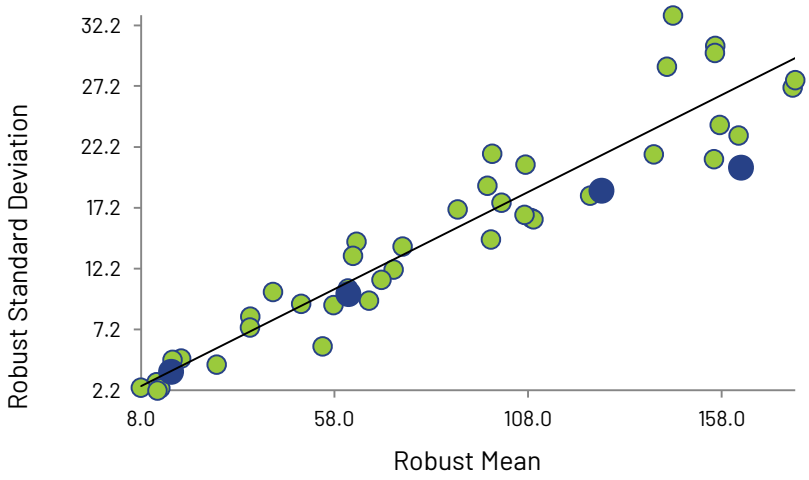
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Methyl isobutyl ketone (MIBK)

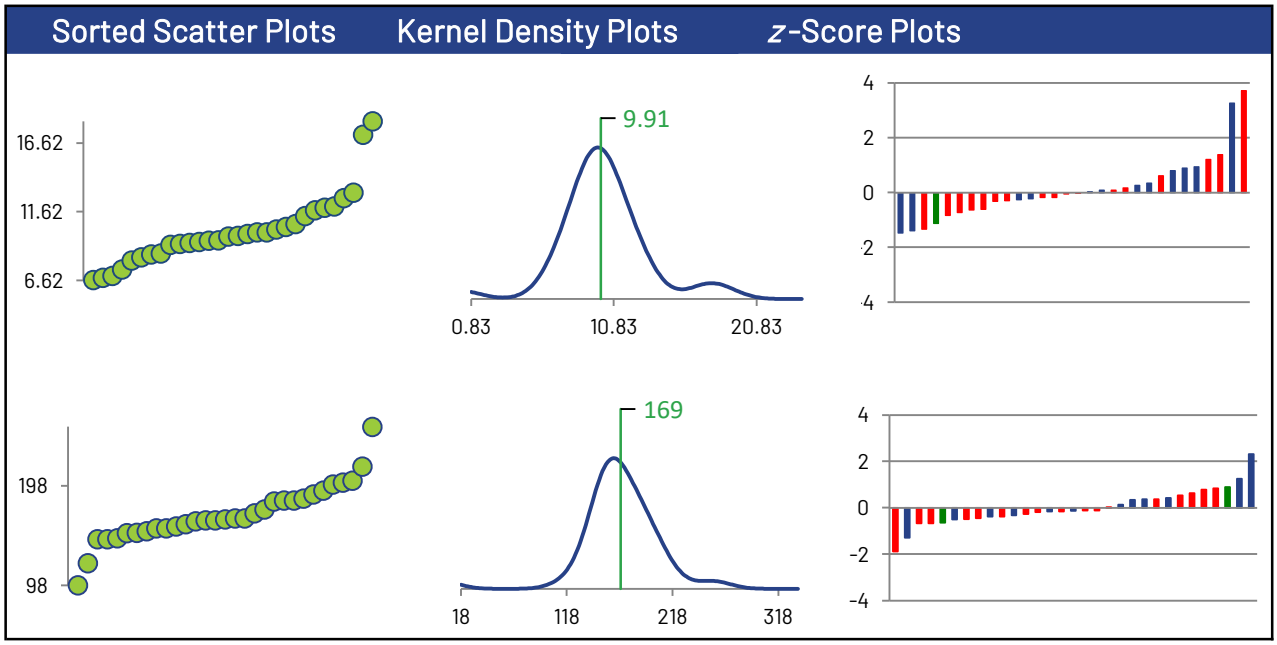
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	30	31	31	31
Median µg/g	9.83	164	56.5	132
Robust Mean µg/g	9.91	169	56.9	130
Uncdrtainty of the Assigned Value µg/g	0.475	5.48	2.42	4.76
Robust Standard Deviation µg/g	2.08	24.4	10.8	21.2
Regression Standard Deviation µg/g	2.23	38.0	12.8	29.3
Stability Flag				
Homogeneity Flag			Homogeneity	
Standard Deviation Used (SDPA) µg/g	2.23	38.0	18.9	29.3
Flagged Outliers	0	0	0	0
|z|>3.0	2	0	0	0
2<|z|<3	0	1	0	0
Failure Rate %*	3.2			

Methods Used

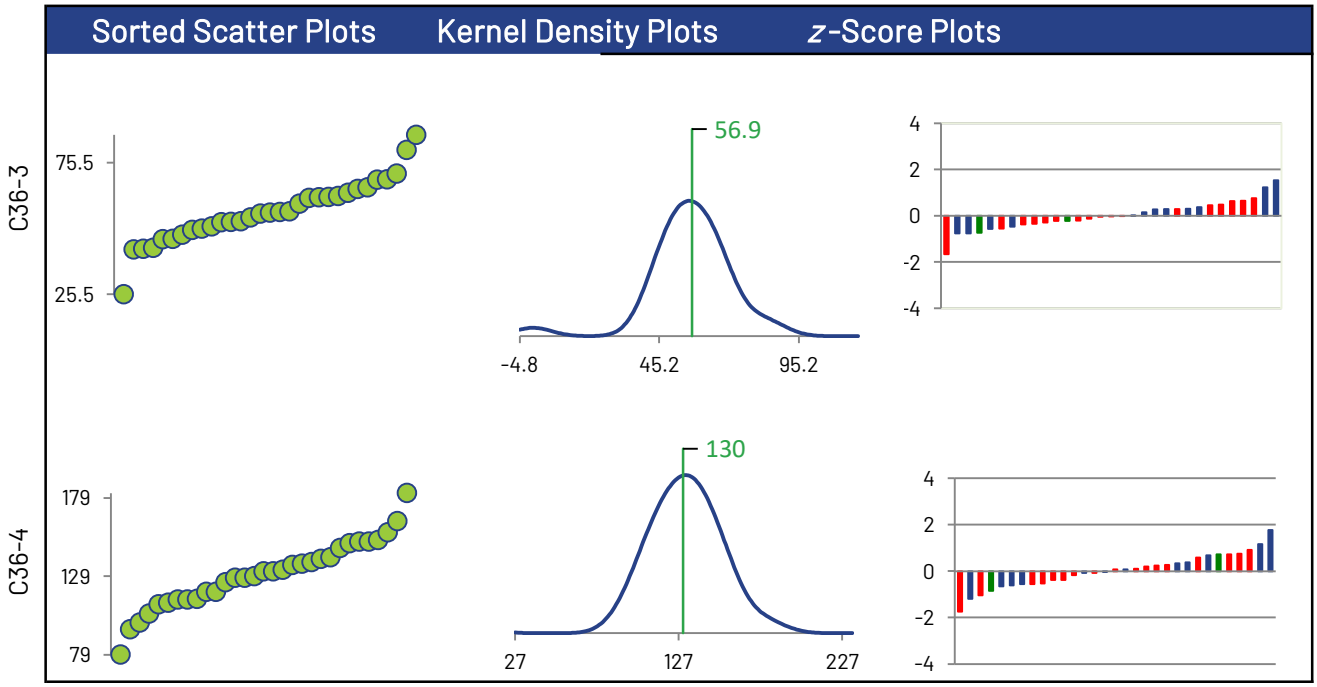
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	12	12	12	12
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	1	2	2	2

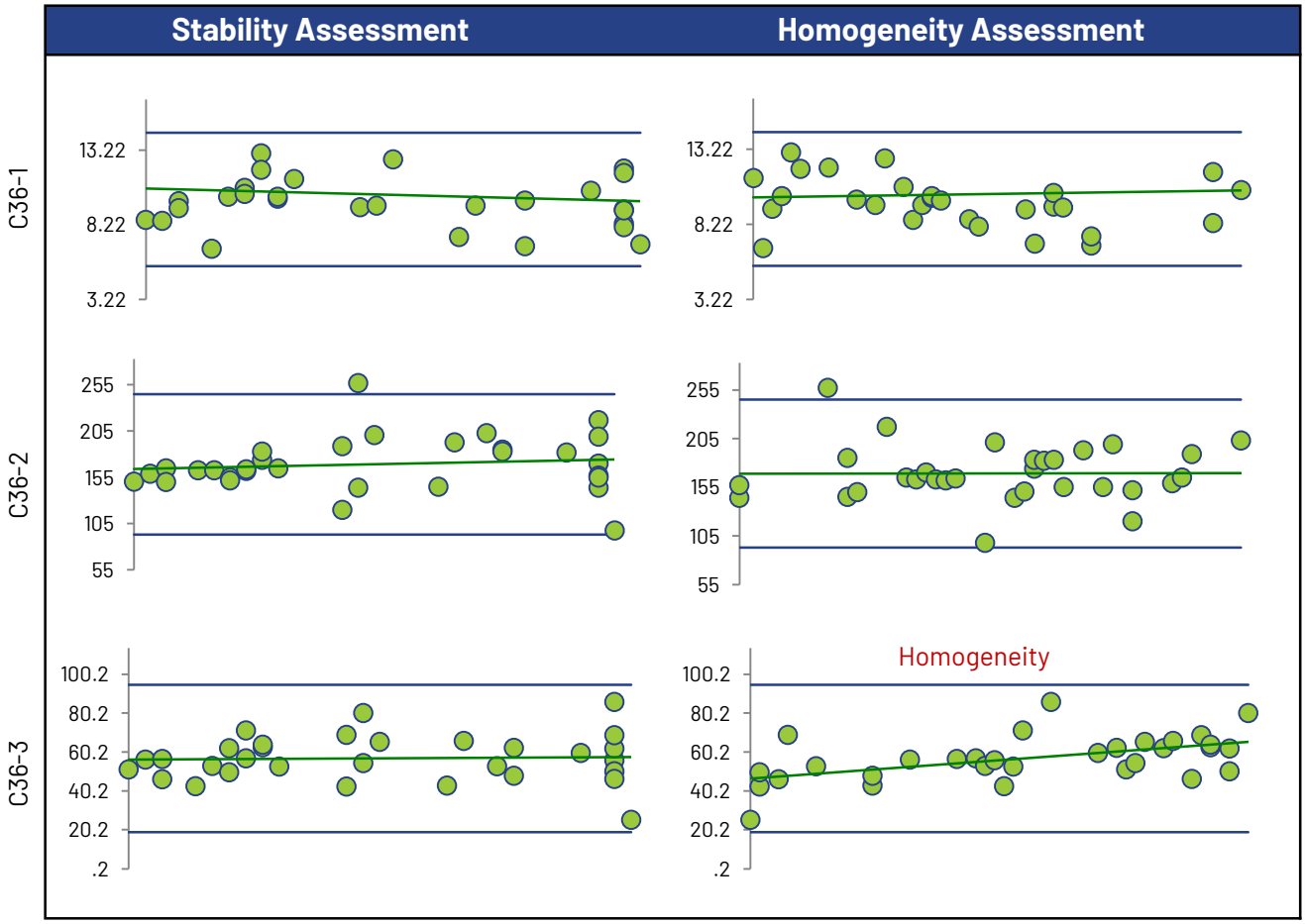
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

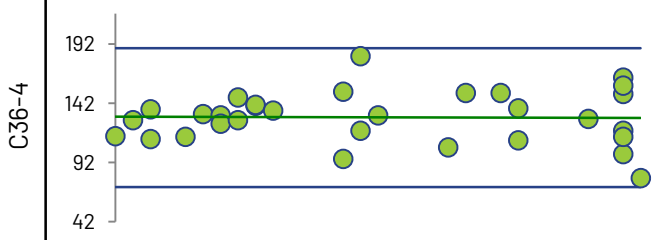
Methyl isobutyl ketone (MIBK)



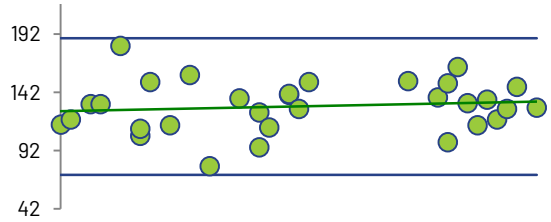


Methyl isobutyl ketone (MIBK)

Stability Assessment



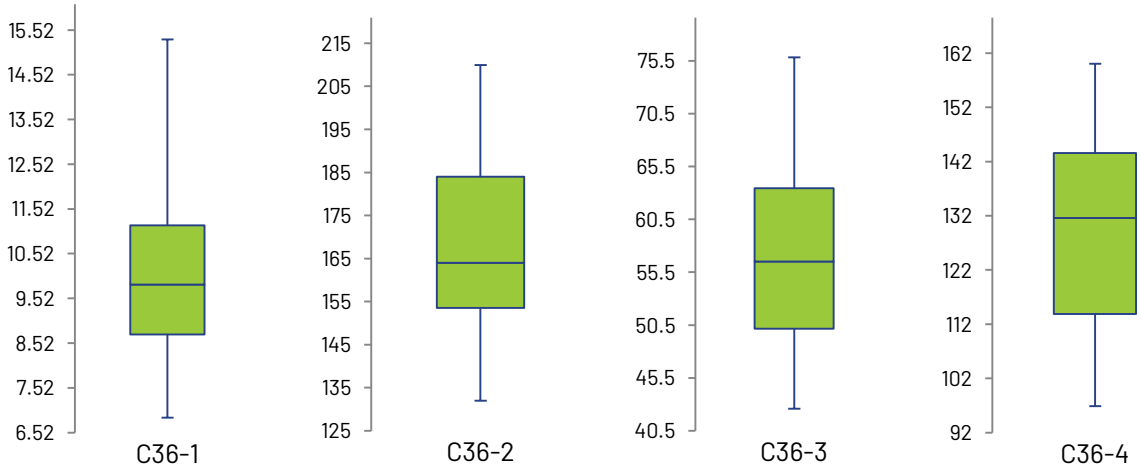
Homogeneity Assessment



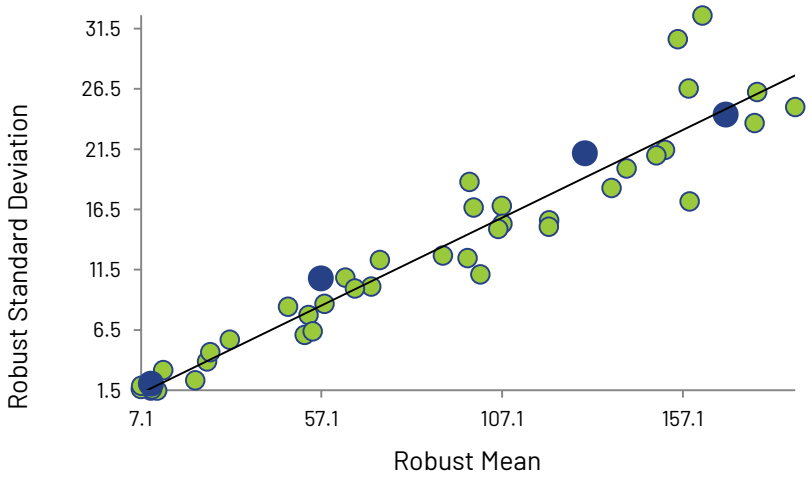
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Methyl t-butyl ether

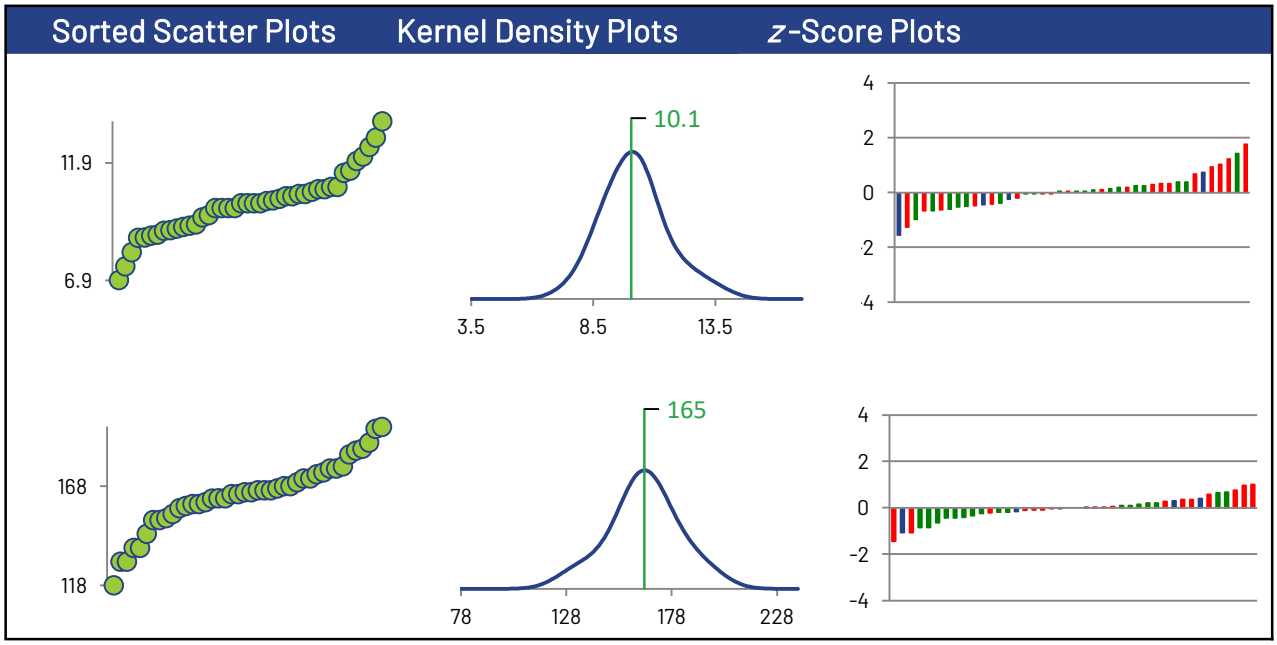
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	42	42	42	42
Median µg/g	10.2	165	58.7	127
Robust Mean µg/g	10.1	165	58.8	126
Uncdrtainty of the Assigned Value µg/g	0.235	3.05	0.891	2.12
Robust Standard Deviation µg/g	1.22	15.8	4.62	11.0
Regression Standard Deviation µg/g	2.03	32.9	11.8	25.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	2.03	32.9	11.8	25.3
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

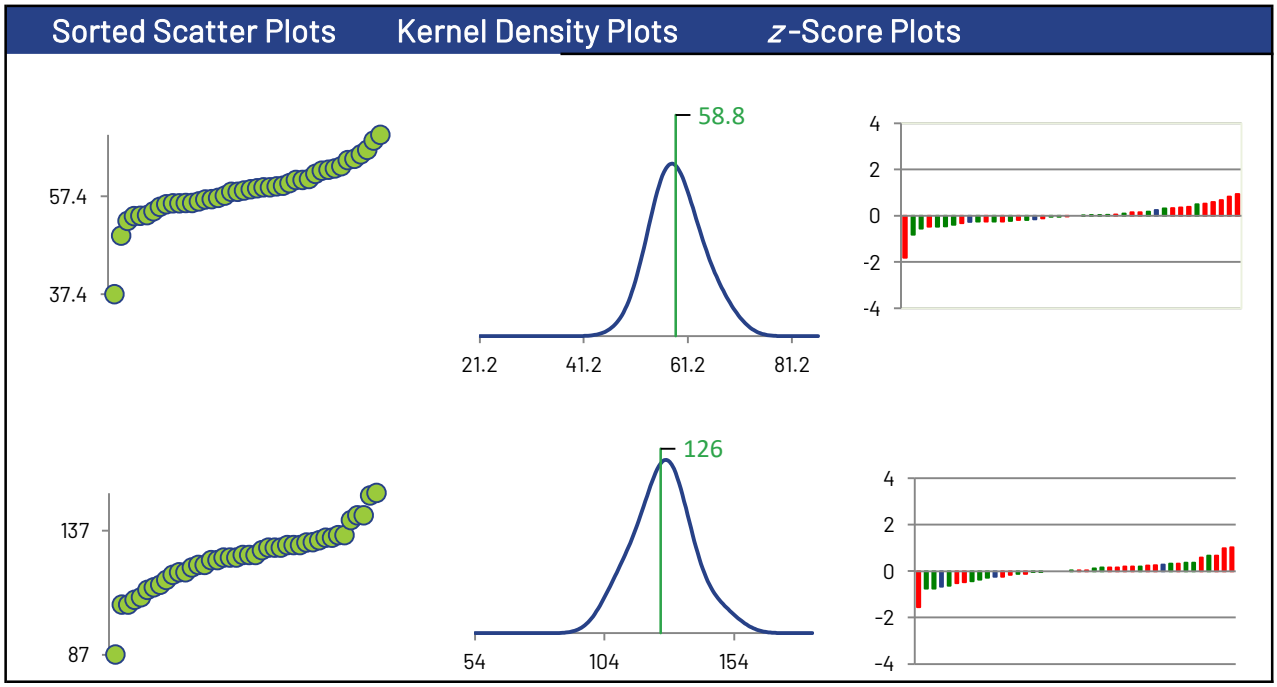
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	4	4	4	4
GC/MS - PURGE AND TRAP (Red)	19	19	19	19
GC/MS - HEADSPACE (Green)	19	19	19	19

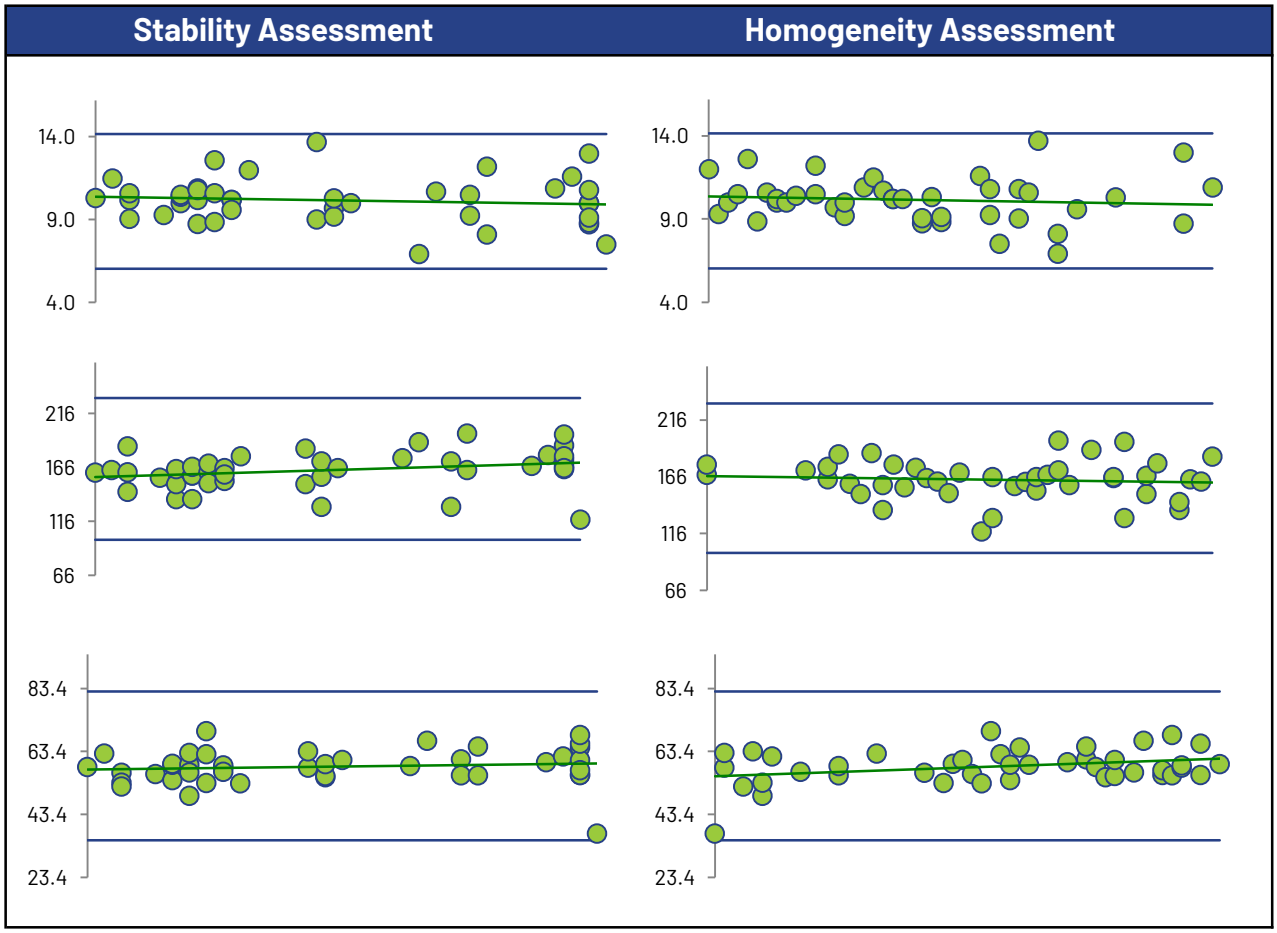
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

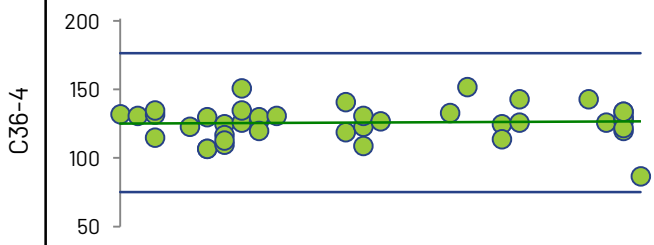
Methyl t-butyl ether



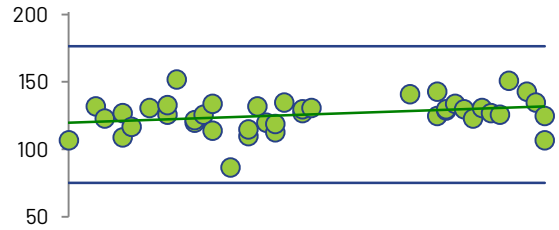


Methyl t-butyl ether

Stability Assessment



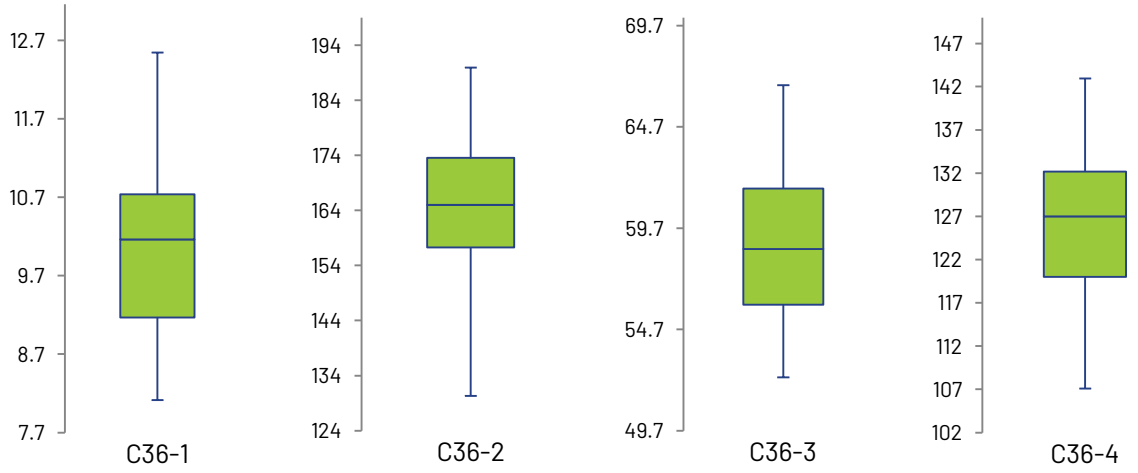
Homogeneity Assessment



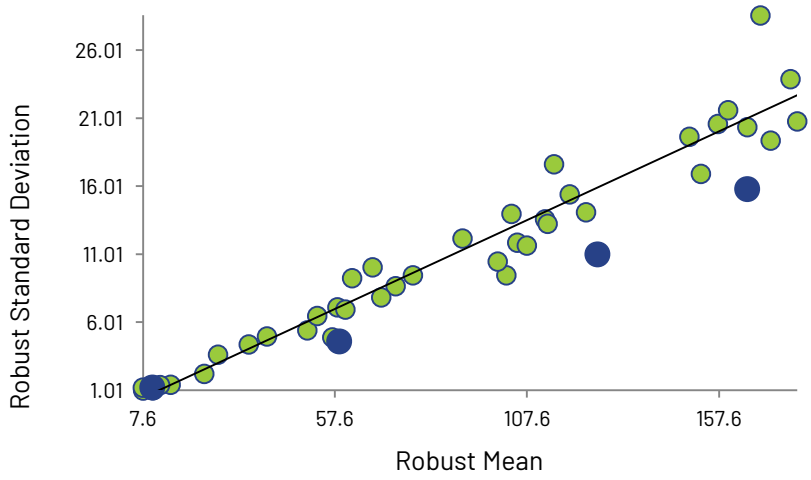
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



o-xylene

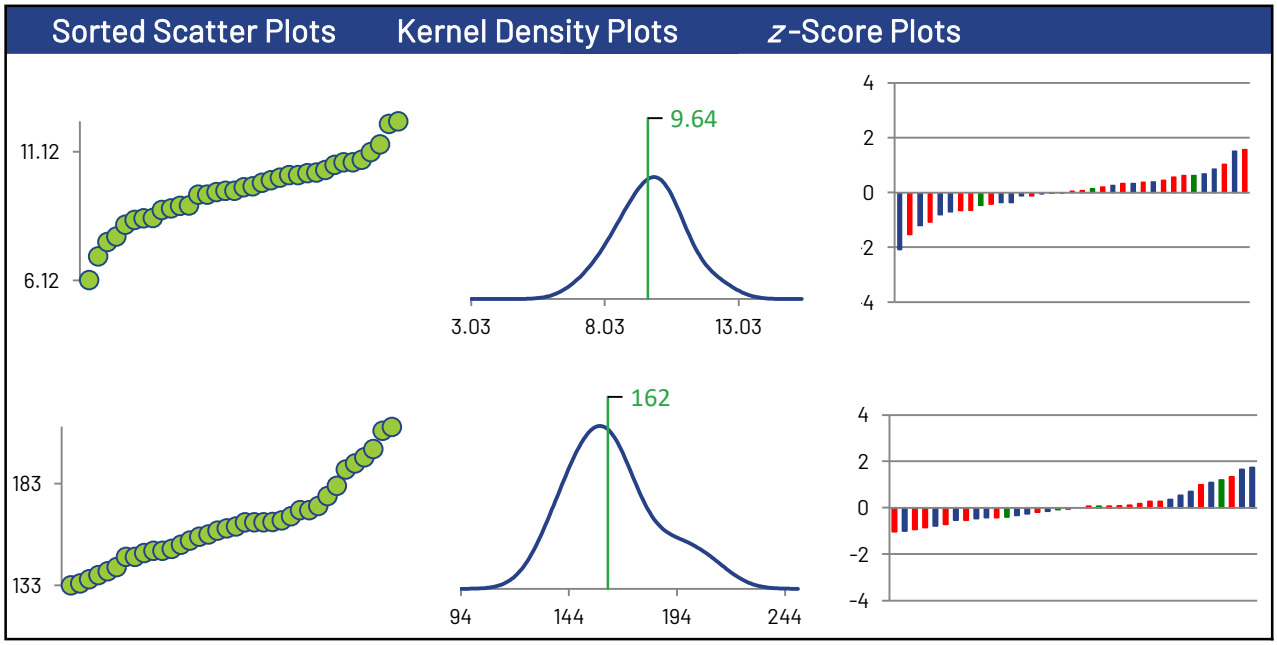
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	35	36	36	36
Median µg/g	9.73	162	58.5	129
Robust Mean µg/g	9.64	162	57.0	126
Uncdrtainty of the Assigned Value µg/g	0.262	4.27	1.93	3.60
Robust Standard Deviation µg/g	1.24	20.5	9.26	17.3
Regression Standard Deviation µg/g	1.69	28.4	9.98	22.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.69	28.4	9.98	22.1
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	0	0	0
Failure Rate %*	0.0			

Methods Used

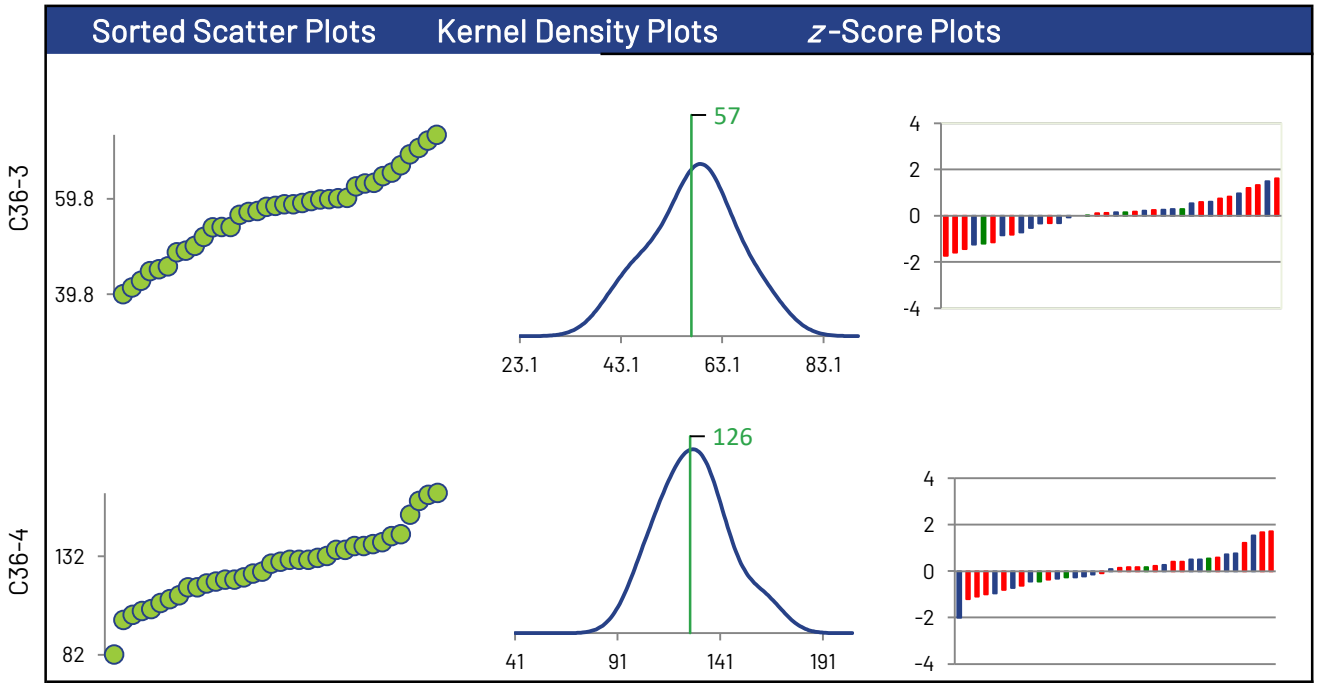
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	3	4	4	4

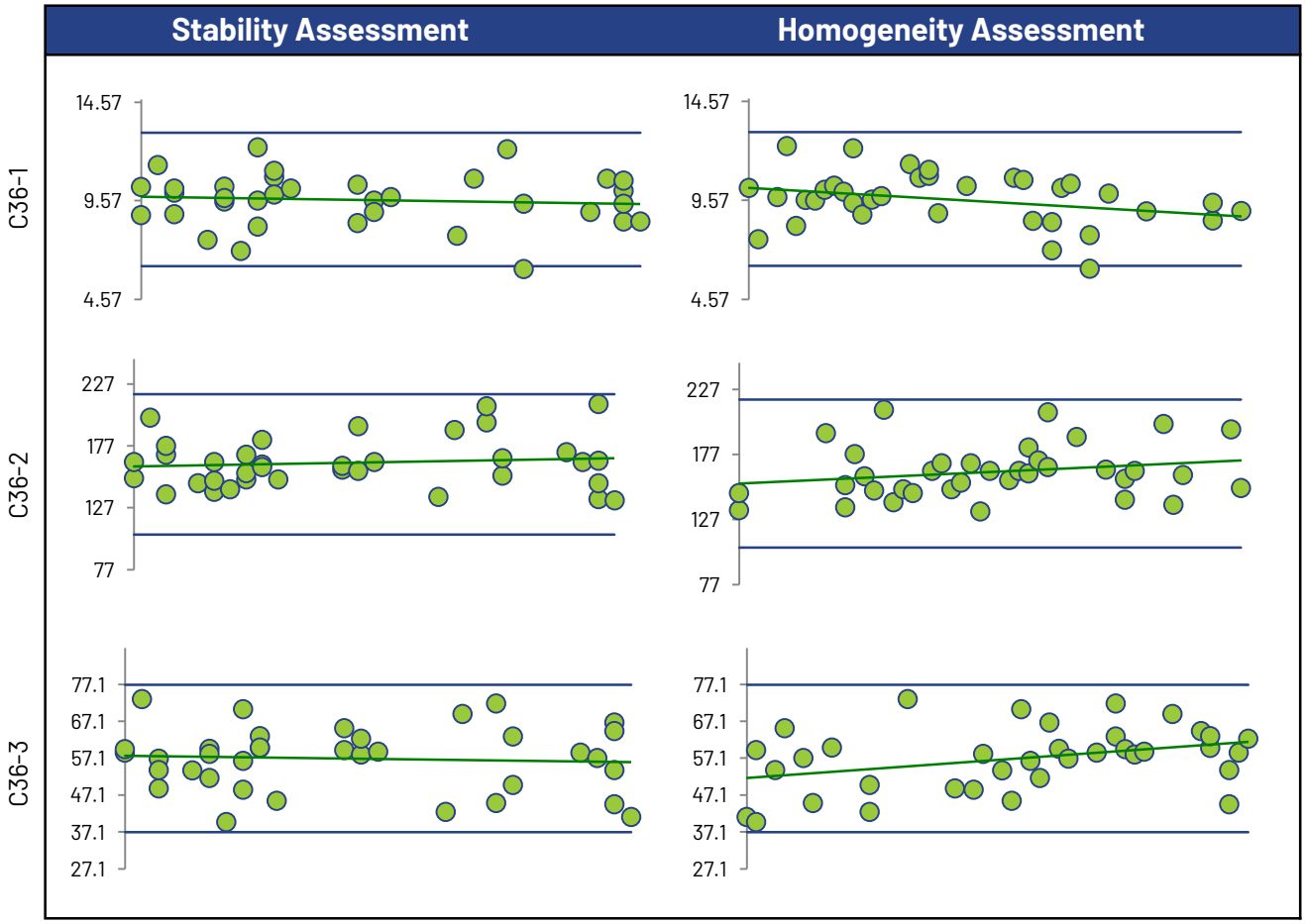
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

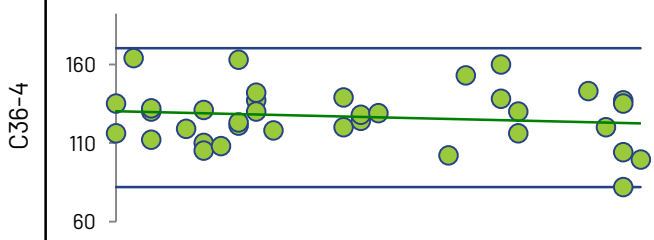
o-xylene


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
59.8
39.8
57
23.1
43.1
63.1
83.1
4
2
0
-2
-4
C36-4
132
82
126
41
91
141
191

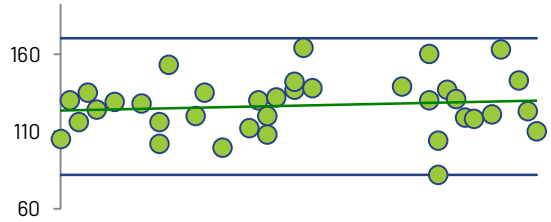

Stability Assessment
Homogeneity Assessment
C36-1
14.57
9.57
4.57
C36-2
227
177
127
77
C36-3
77.1
67.1
57.1
47.1
37.1
27.1

o-xylene

Stability Assessment



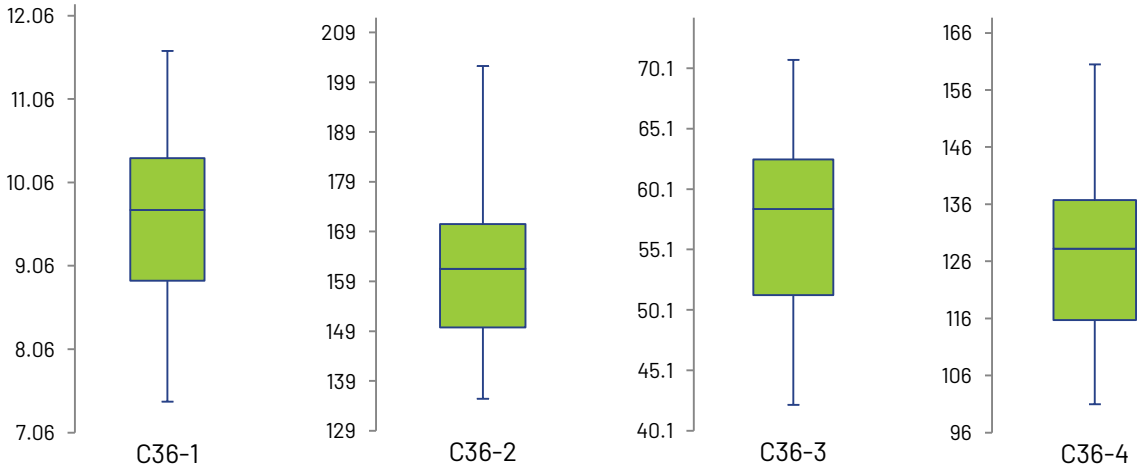
Homogeneity Assessment



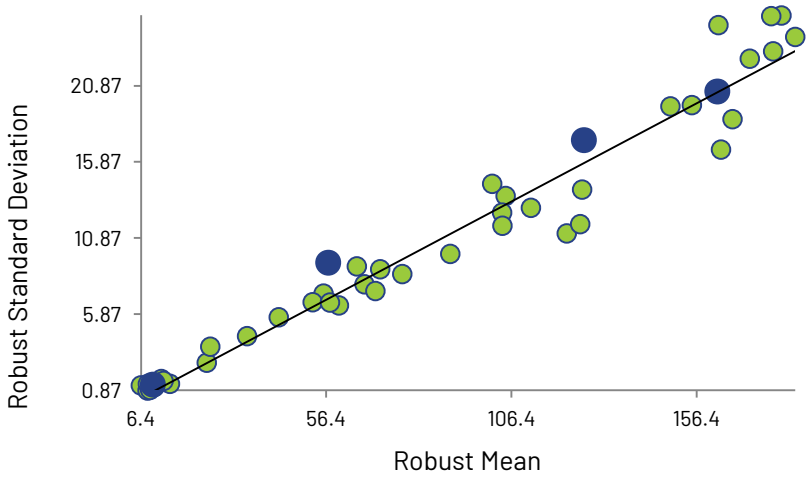
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Styrene

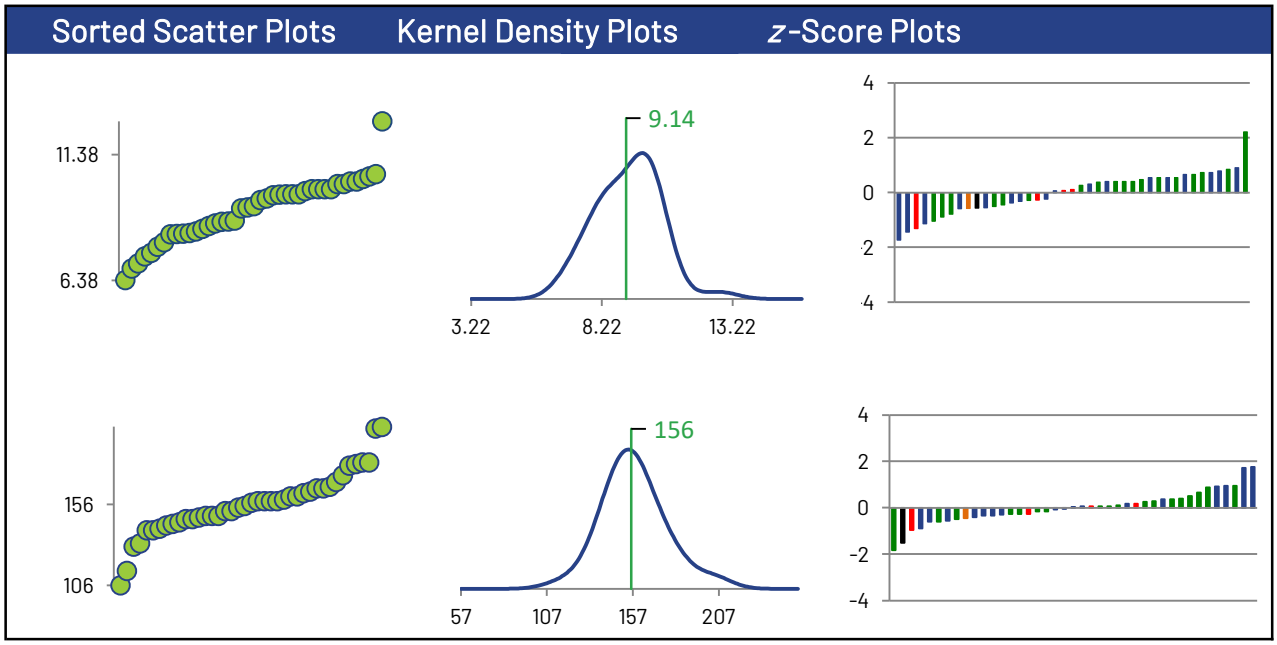
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	41	41	41	41
Median µg/g	9.32	157	54.9	125
Robust Mean µg/g	9.14	156	54.1	125
Uncdrtainty of the Assigned Value µg/g	0.234	3.30	1.38	2.95
Robust Standard Deviation µg/g	1.20	16.9	7.09	15.1
Regression Standard Deviation µg/g	1.60	27.3	9.47	21.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.60	27.3	9.47	21.8
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	0	2	3
Failure Rate %*	0.0			

Methods Used

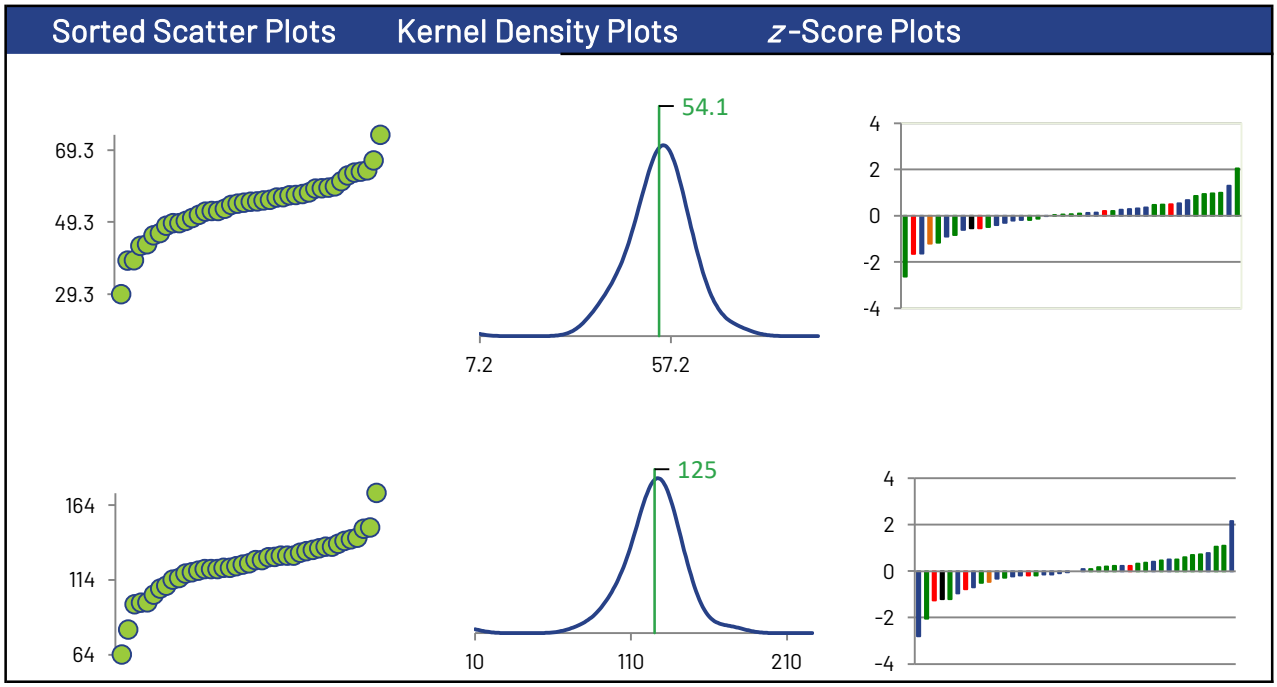
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	17	17	17	17
GC/MS (Red)	4	4	4	4
GC/MS - PURGE AND TRAP (Green)	18	18	18	18
GC/PID - HEADSPACE (Orange)	1	1	1	1
GC/MS/FID (Black)	1	1	1	1

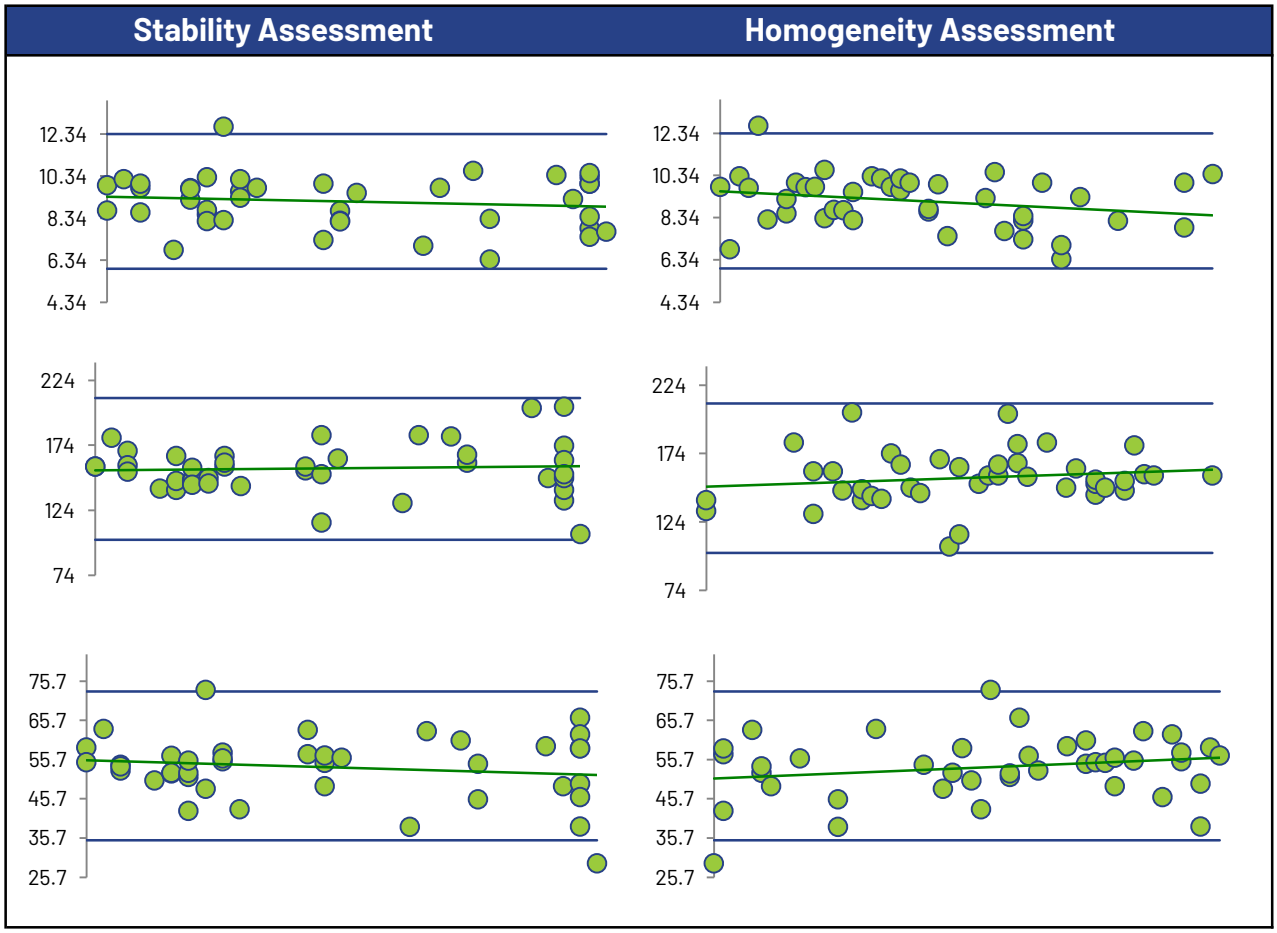
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

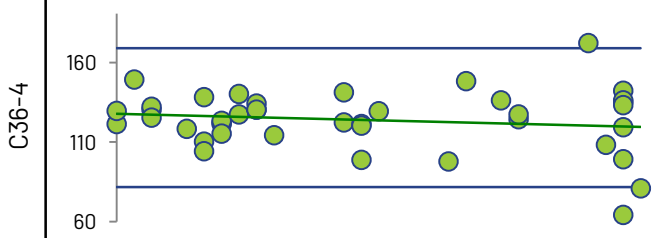
Styrene


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
69.3
49.3
29.3
54.1
7.2
57.2
4
2
0
-2
-4
C36-4
164
114
64
125
10
110
210

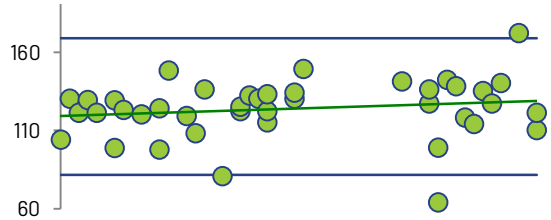

Stability Assessment
Homogeneity Assessment
C36-1
12.34
10.34
8.34
6.34
4.34
C36-2
224
174
124
74
C36-3
75.7
65.7
55.7
45.7
35.7
25.7

Styrene

Stability Assessment



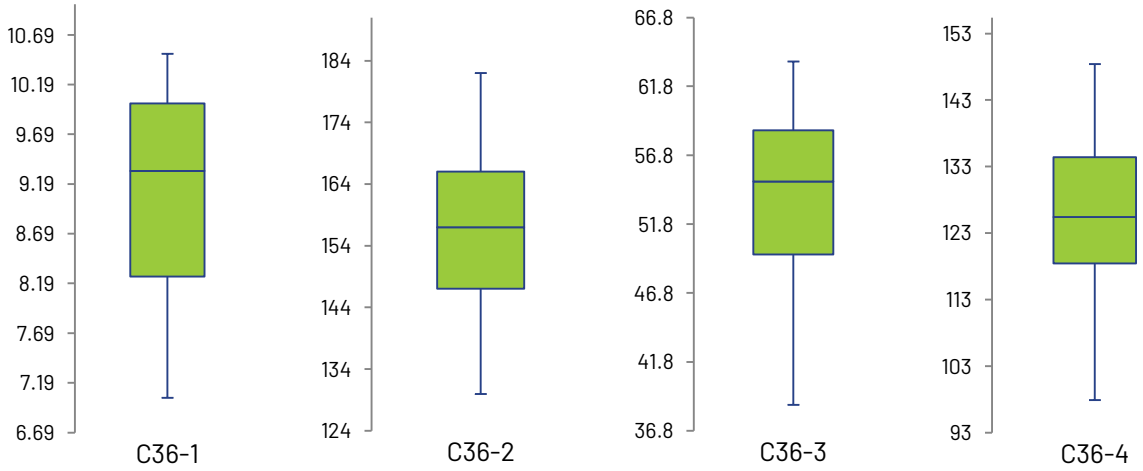
Homogeneity Assessment



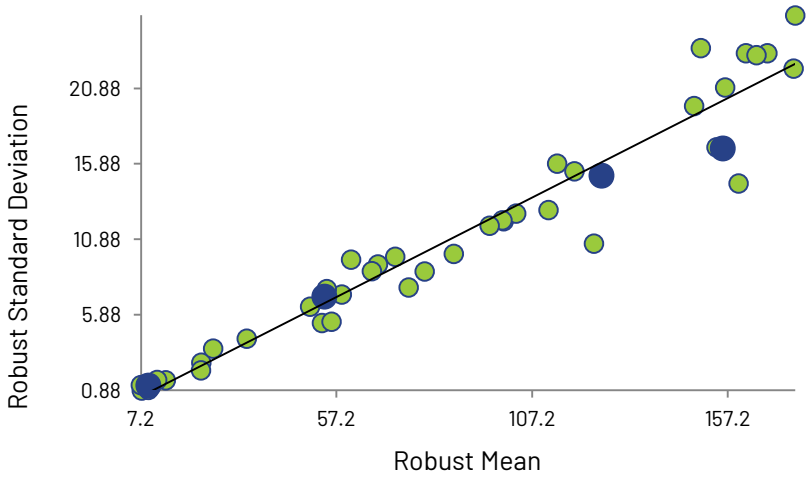
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Tetrachloroethylene

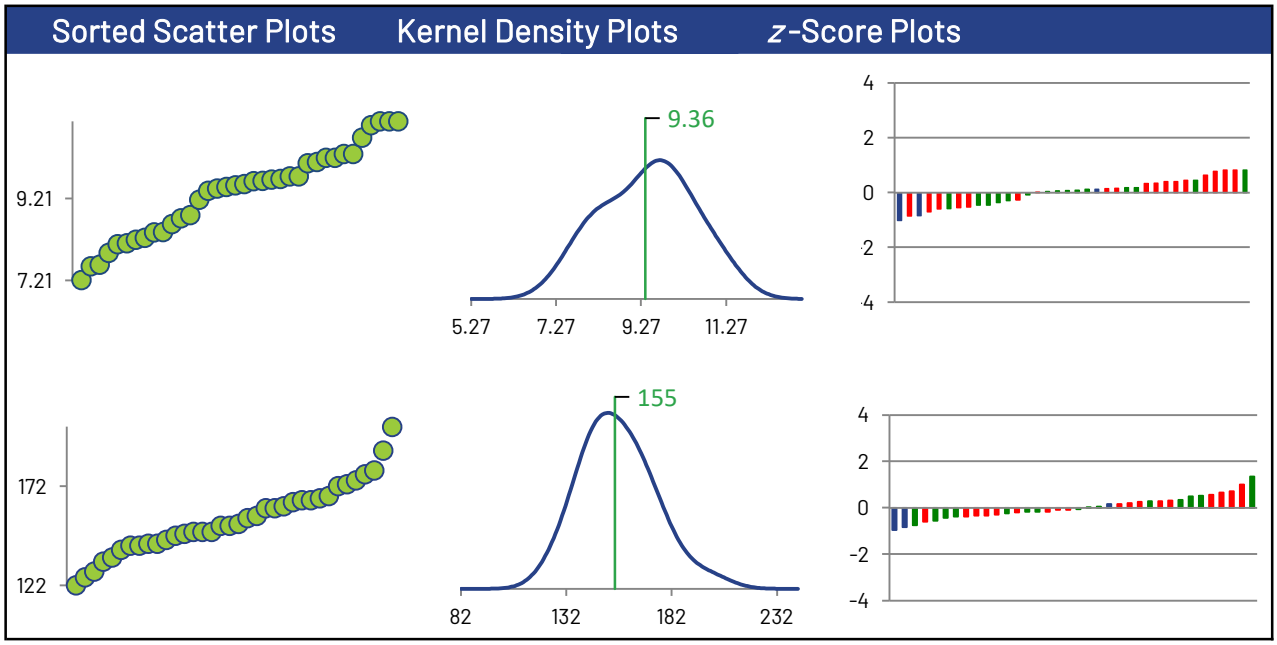
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	9.55	153	54.1	122
Robust Mean µg/g	9.36	155	54.3	121
Uncdrtainty of the Assigned Value µg/g	0.250	3.63	1.56	2.98
Robust Standard Deviation µg/g	1.20	17.4	7.50	14.3
Regression Standard Deviation µg/g	2.11	34.8	12.2	27.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	2.11	34.8	12.2	27.2
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	0	0	0	0
Failure Rate %*	0.0			

Methods Used

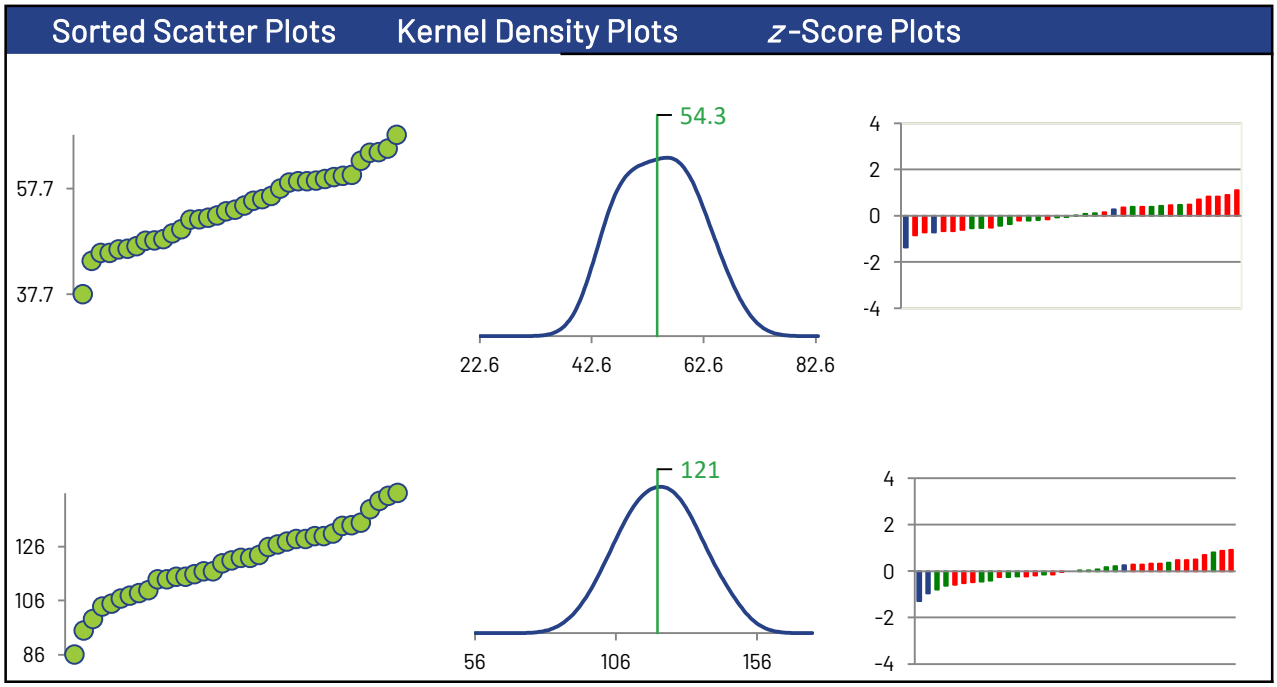
Method	C36-1	C36-2	C36-3	C36-4
GC/MS (Blue)	3	3	3	3
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS - HEADSPACE (Green)	15	15	15	15

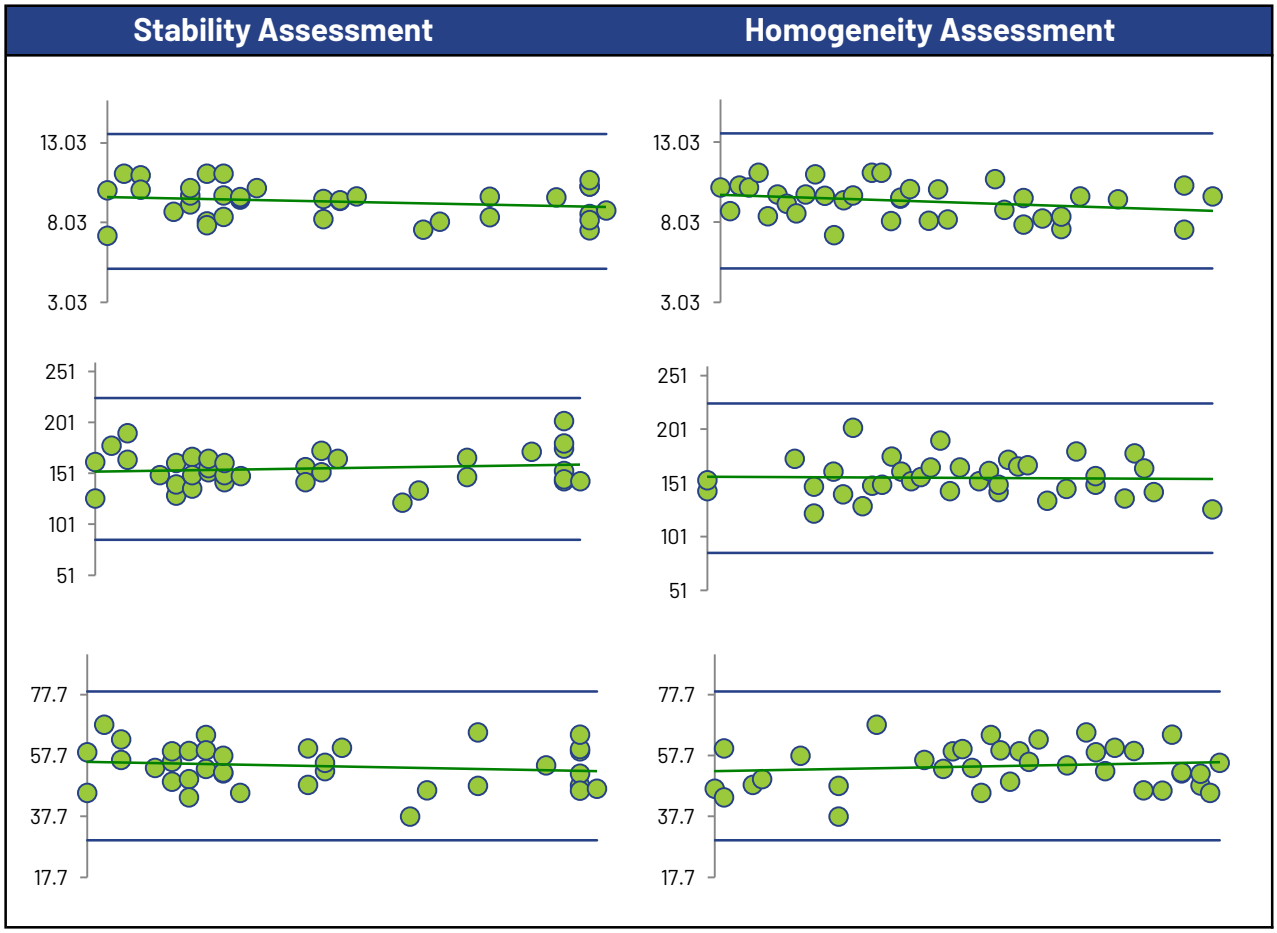
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

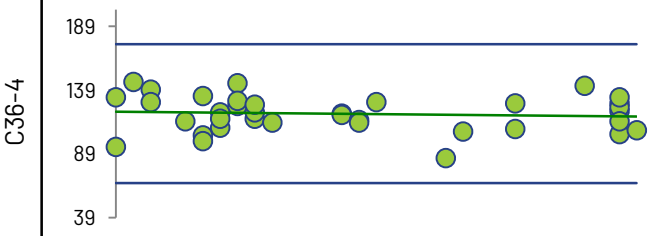
Tetrachloroethylene



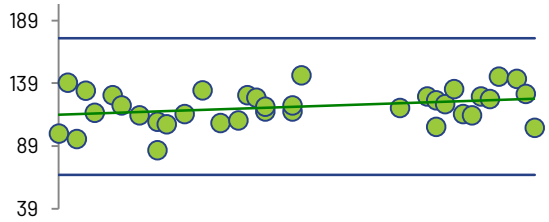


Tetrachloroethylene

Stability Assessment



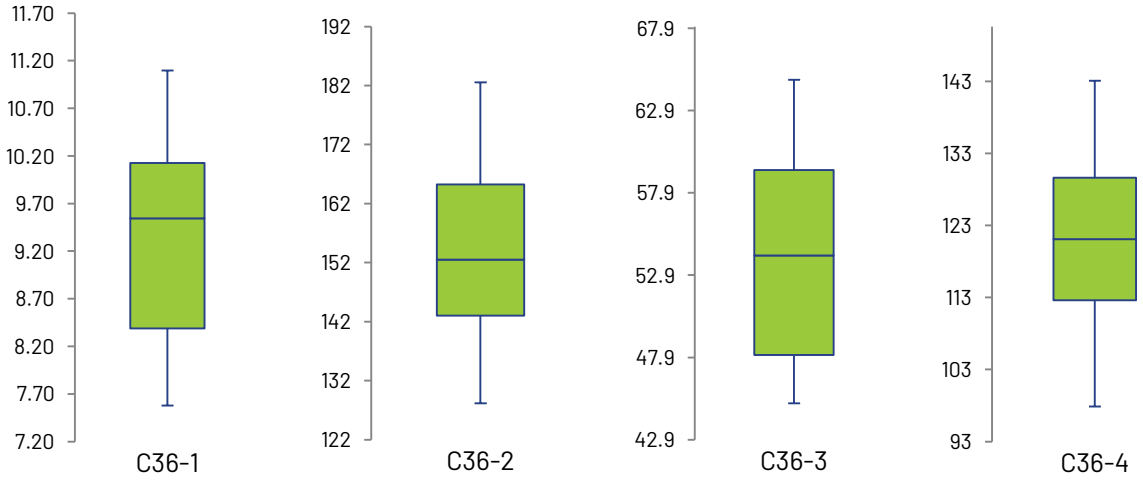
Homogeneity Assessment



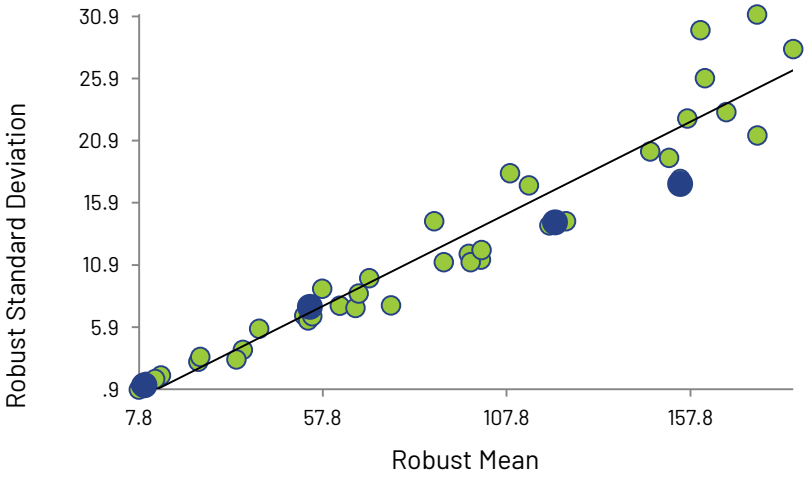
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Toluene

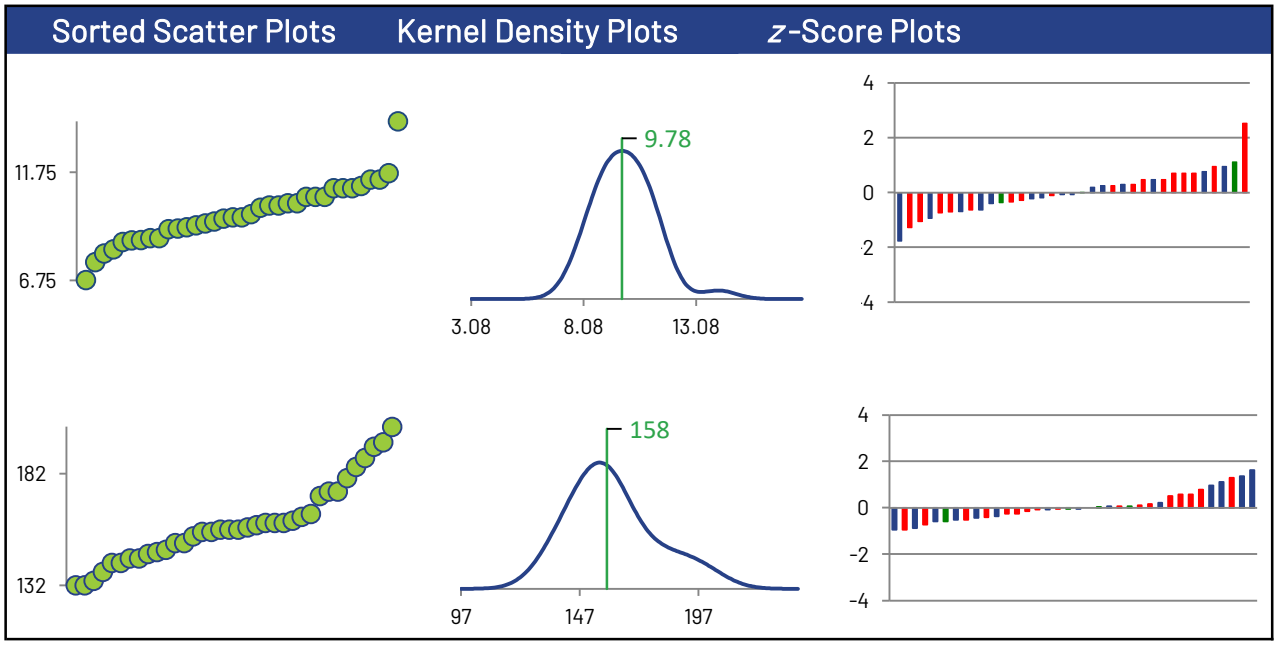
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	35	36	36	36
Median µg/g	9.66	157	55.8	123
Robust Mean µg/g	9.78	158	55.4	124
Uncdrtainty of the Assigned Value µg/g	0.273	3.71	1.56	3.06
Robust Standard Deviation µg/g	1.29	17.8	7.47	14.7
Regression Standard Deviation µg/g	1.71	27.7	9.70	21.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.71	27.7	9.70	21.7
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	0	0	0
Failure Rate %*	0.0			

Methods Used

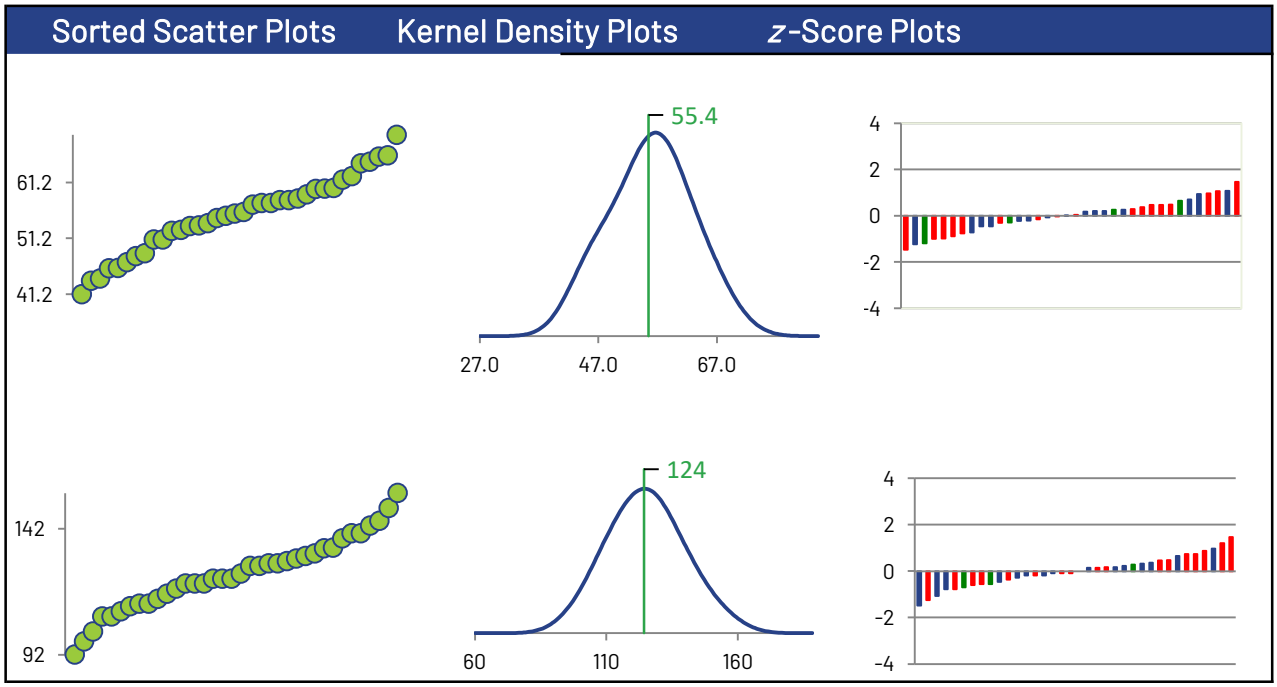
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	3	4	4	4

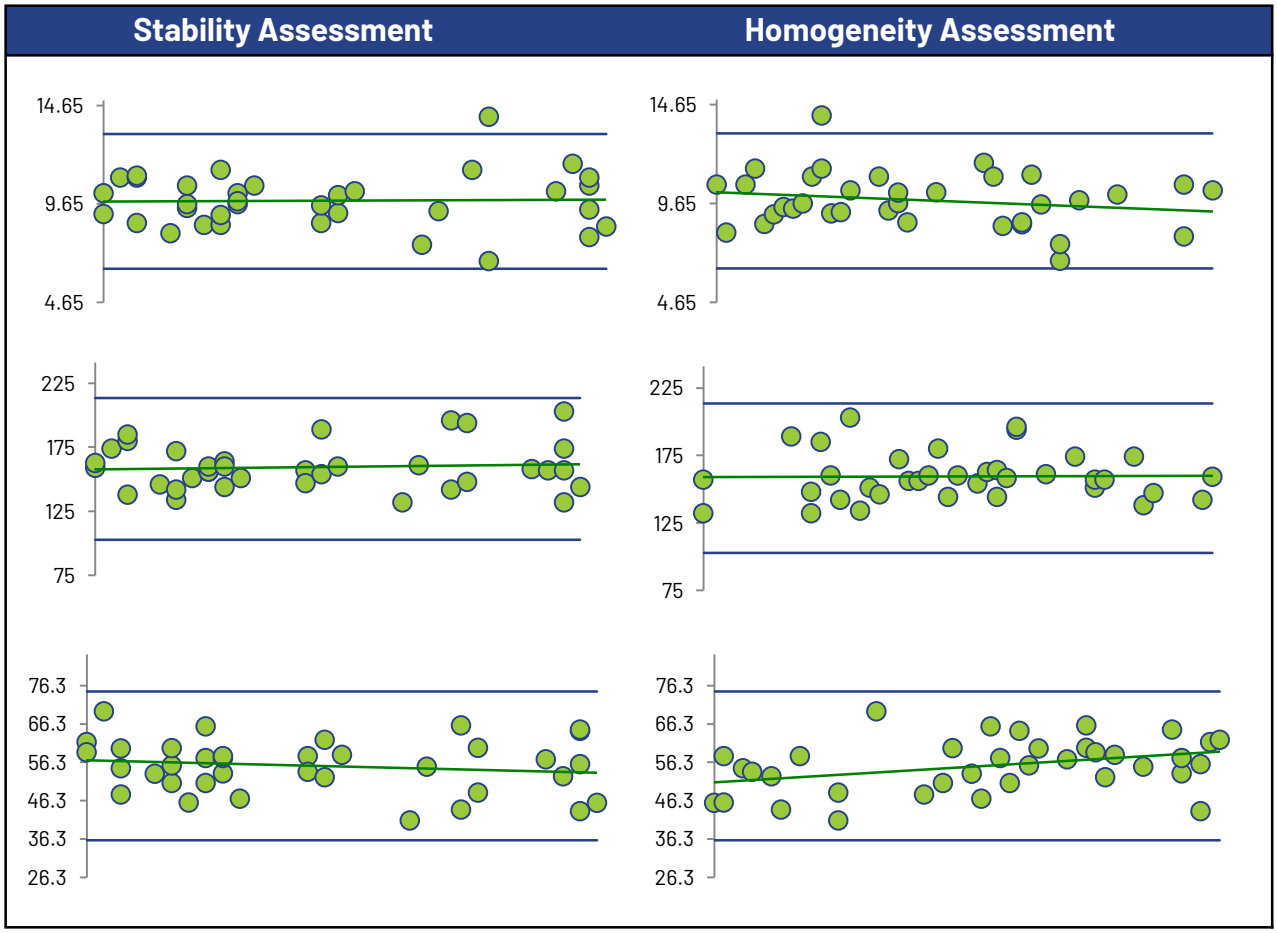
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

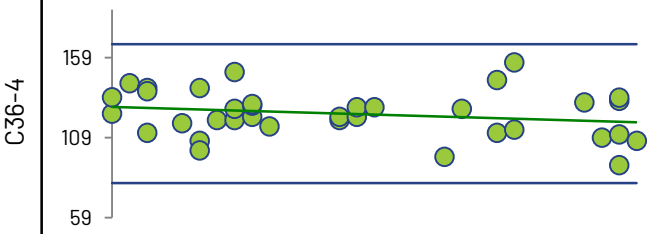
Toluene


Sorted Scatter Plots
Kernel Density Plots
z-Score Plots
C36-3
61.2
51.2
41.2
55.4
27.0
47.0
67.0
4
2
0
-2
-4
C36-4
142
92
124
60
110
160

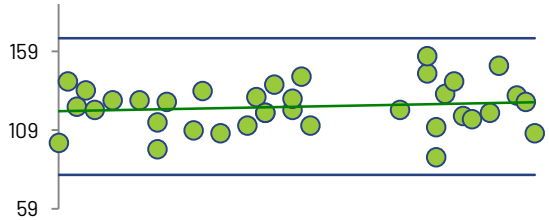

Stability Assessment
Homogeneity Assessment
C36-1
14.65
9.65
4.65
C36-2
225
175
125
75
C36-3
76.3
66.3
56.3
46.3
36.3
26.3

Toluene

Stability Assessment



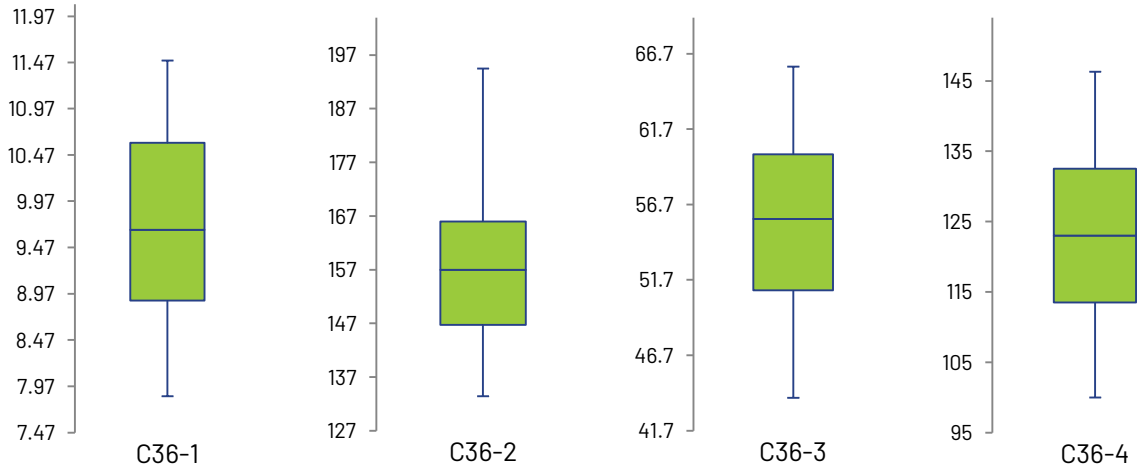
Homogeneity Assessment



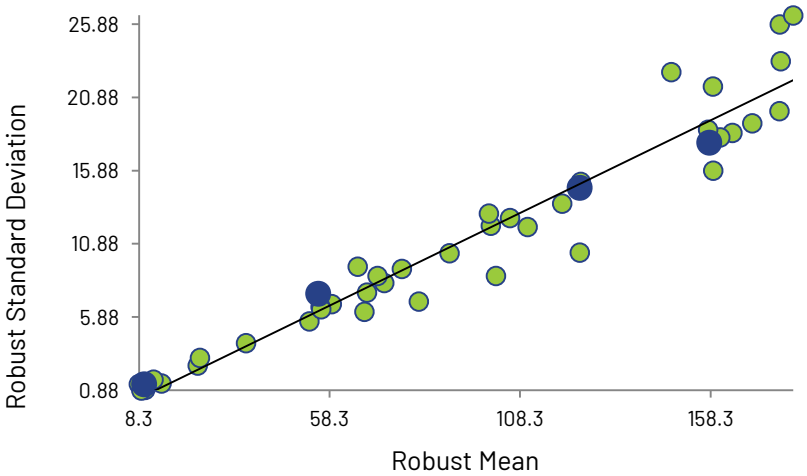
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



trans-1,2-Dichloroethylene

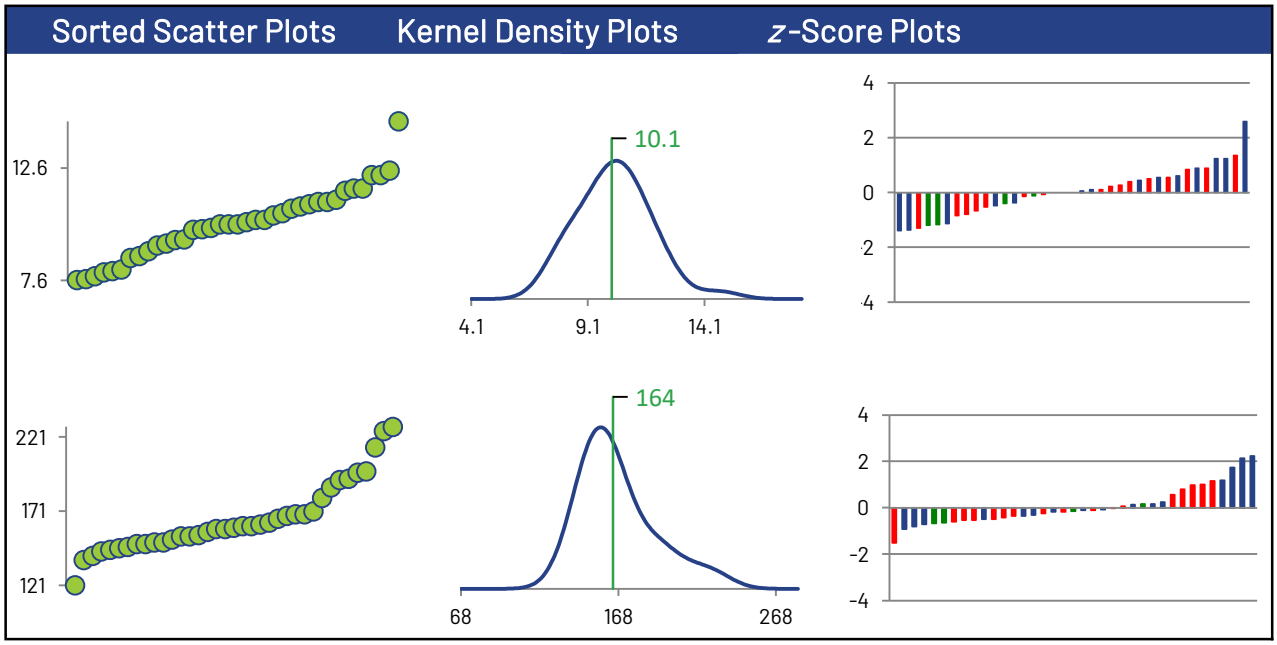
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	10.1	160	56.4	127
Robust Mean µg/g	10.1	164	56.5	127
Uncdrtainty of the Assigned Value µg/g	0.331	4.34	1.40	3.60
Robust Standard Deviation µg/g	1.61	21.1	6.83	17.5
Regression Standard Deviation µg/g	1.77	28.7	9.88	22.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.77	28.7	9.88	22.3
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	1	0
2<|z|<3	1	2	0	1
Failure Rate %*	2.7			

Methods Used

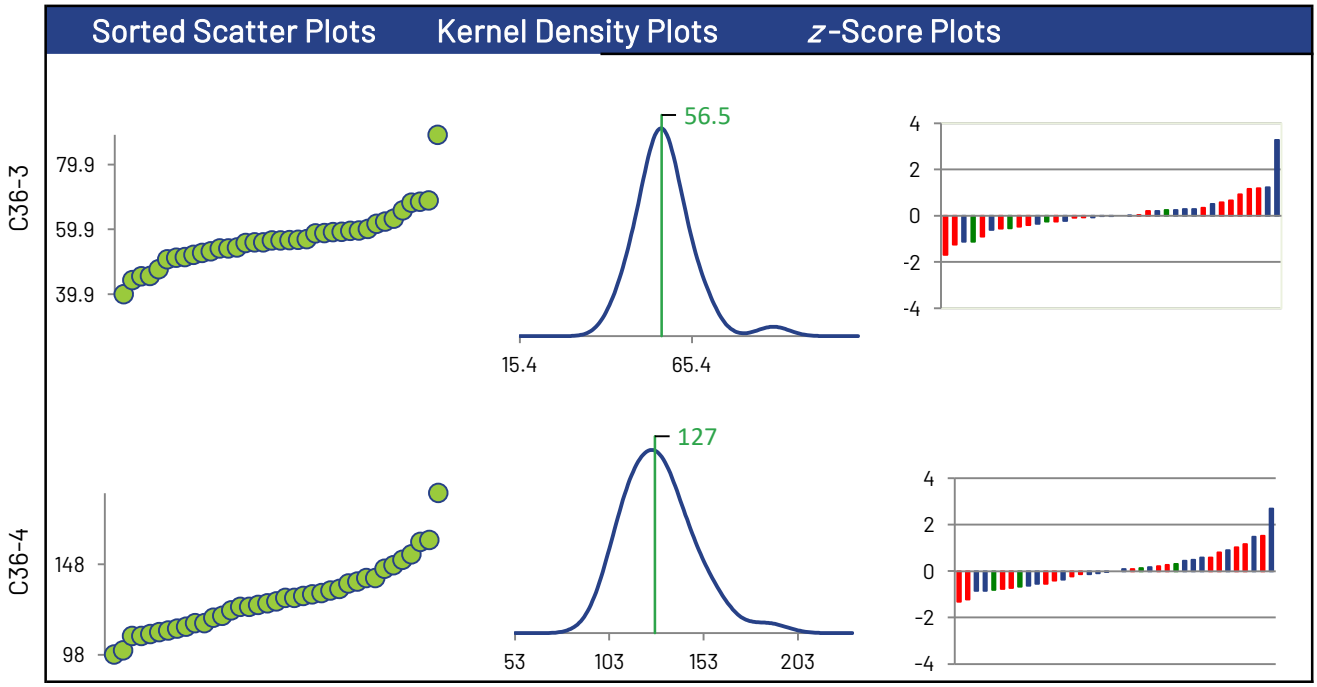
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	16	16	16	16
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	4	4	4	4

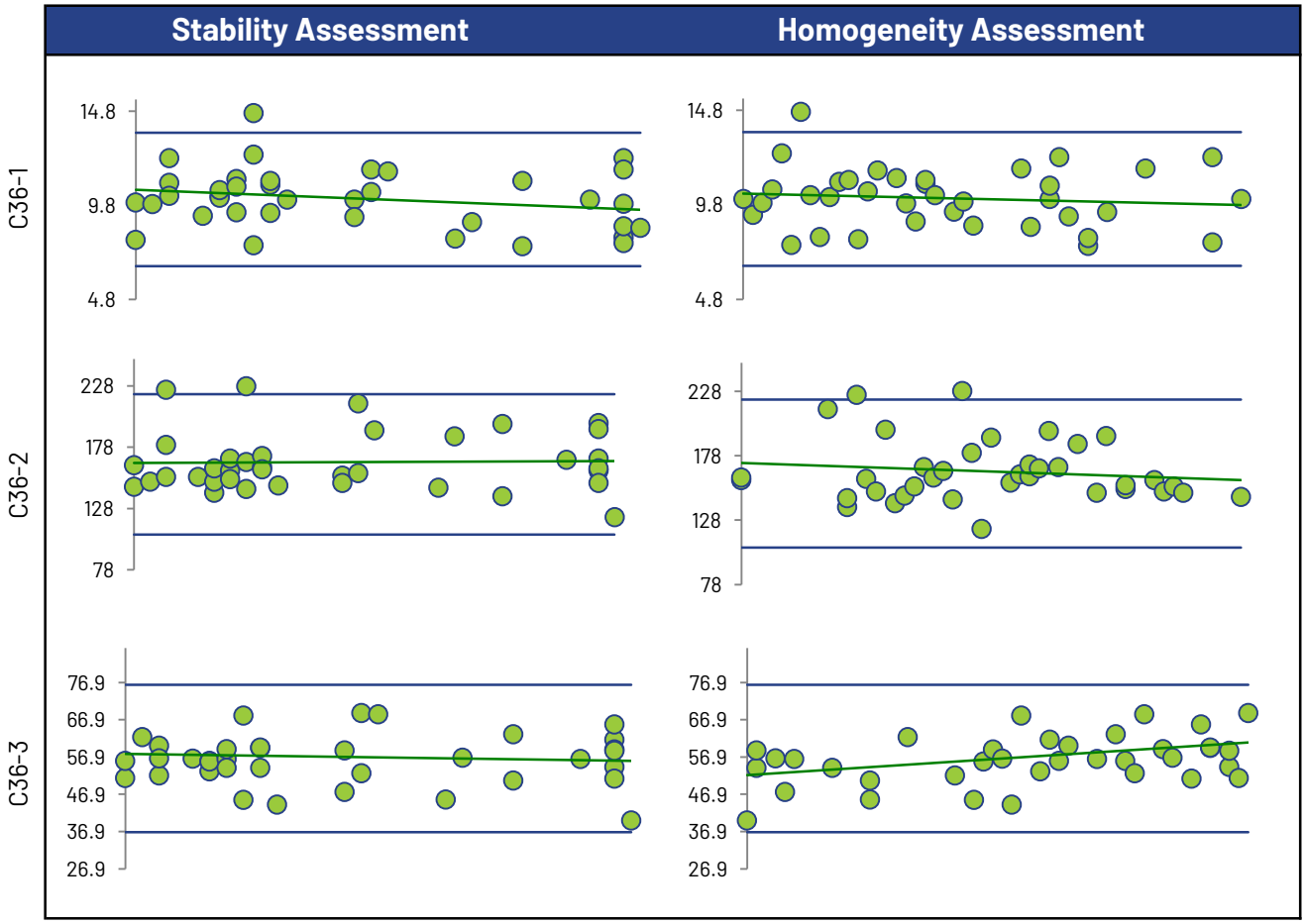
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

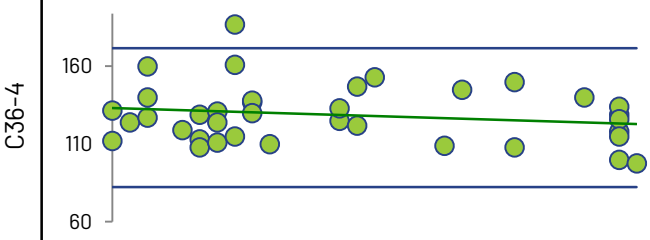
trans-1,2-Dichloroethylene



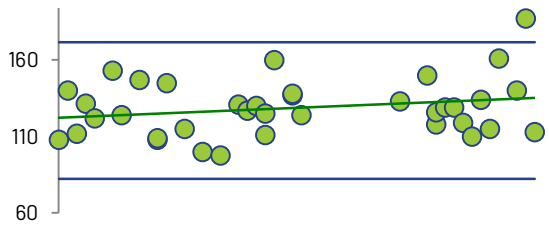


trans-1,2-Dichloroethylene

Stability Assessment



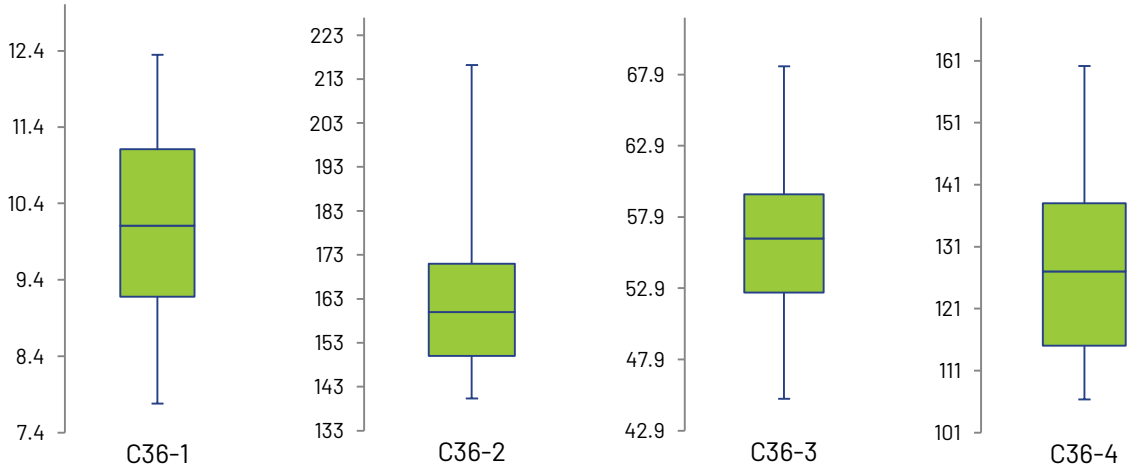
Homogeneity Assessment



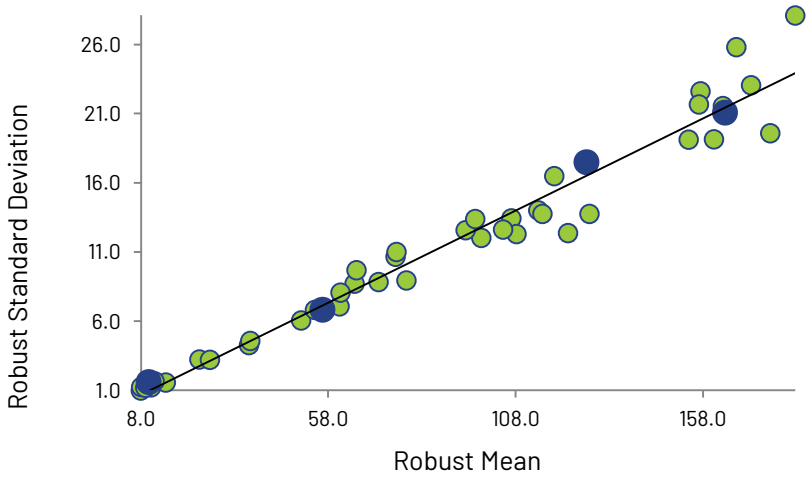
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



trans-1,3-Dichloropropene

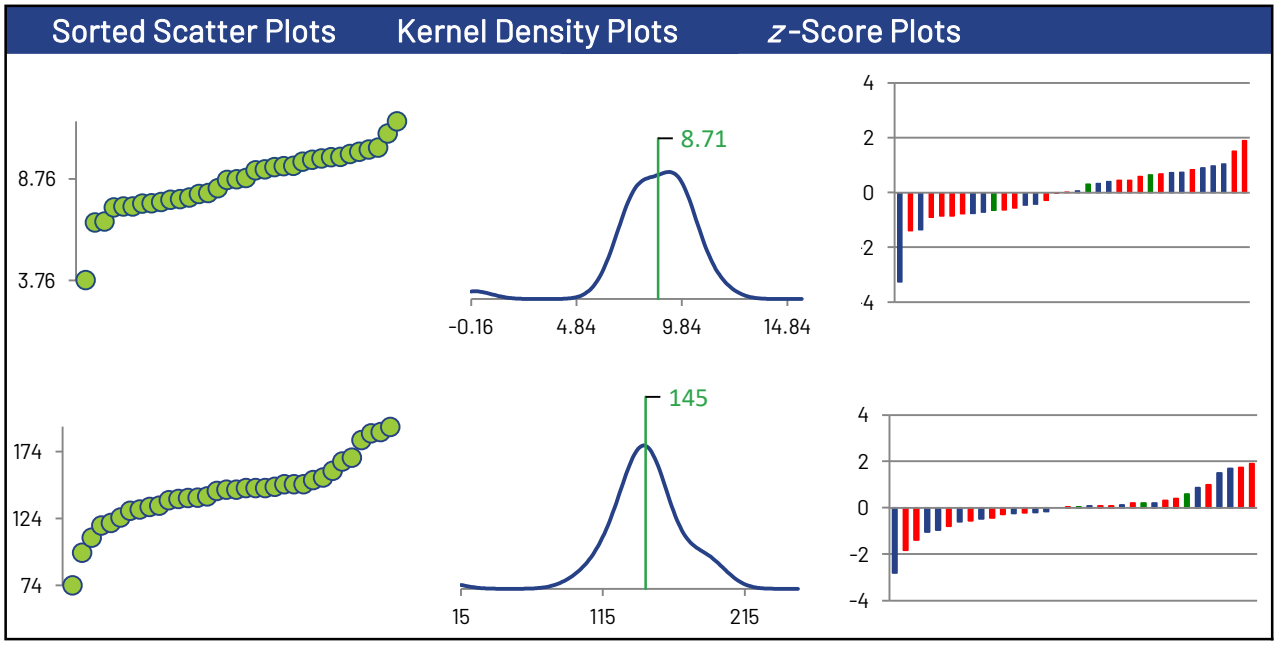
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	34	34	34	34
Median µg/g	8.77	146	49.5	110
Robust Mean µg/g	8.71	145	50.0	111
Uncdrtainty of the Assigned Value µg/g	0.300	4.33	1.83	2.85
Robust Standard Deviation µg/g	1.40	20.2	8.54	13.3
Regression Standard Deviation µg/g	1.52	25.3	8.75	19.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.52	25.3	8.75	19.5
Flagged Outliers	0	0	0	0
|z|>3.0	1	0	1	0
2<|z|<3	0	1	1	2
Failure Rate %*	2.9			

Methods Used

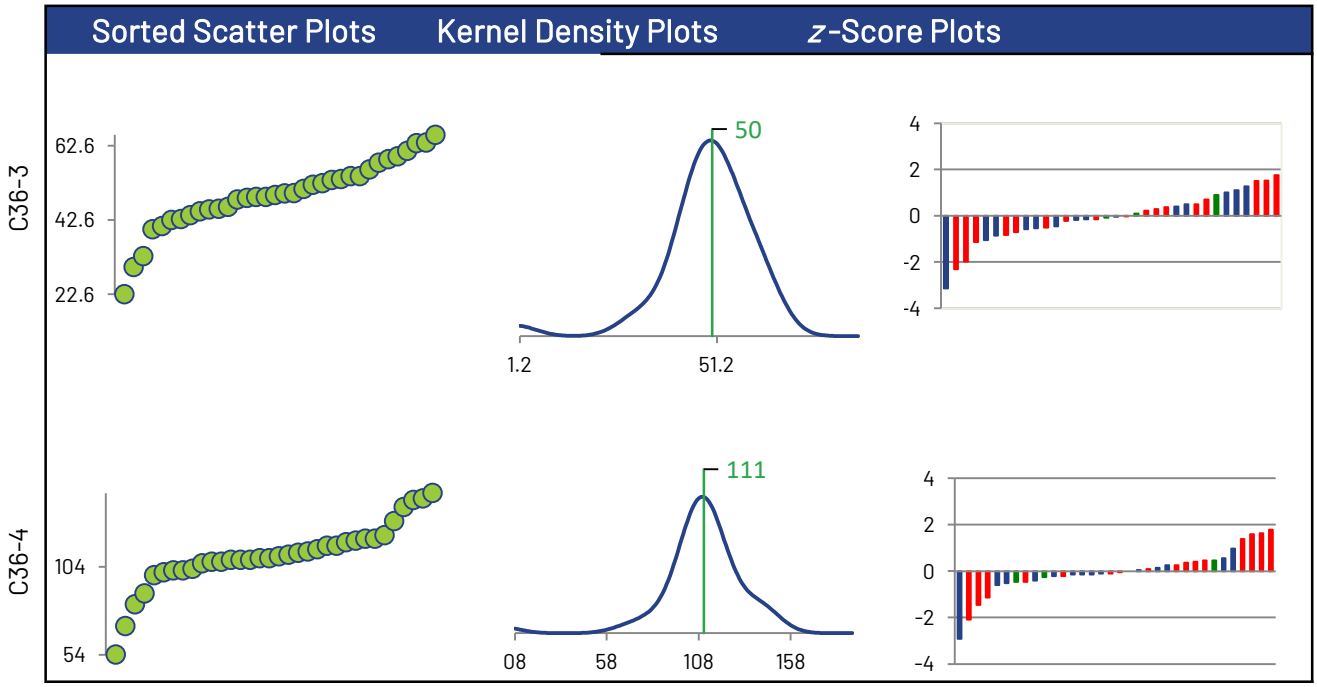
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	14	14	14	14
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	3	3	3	3

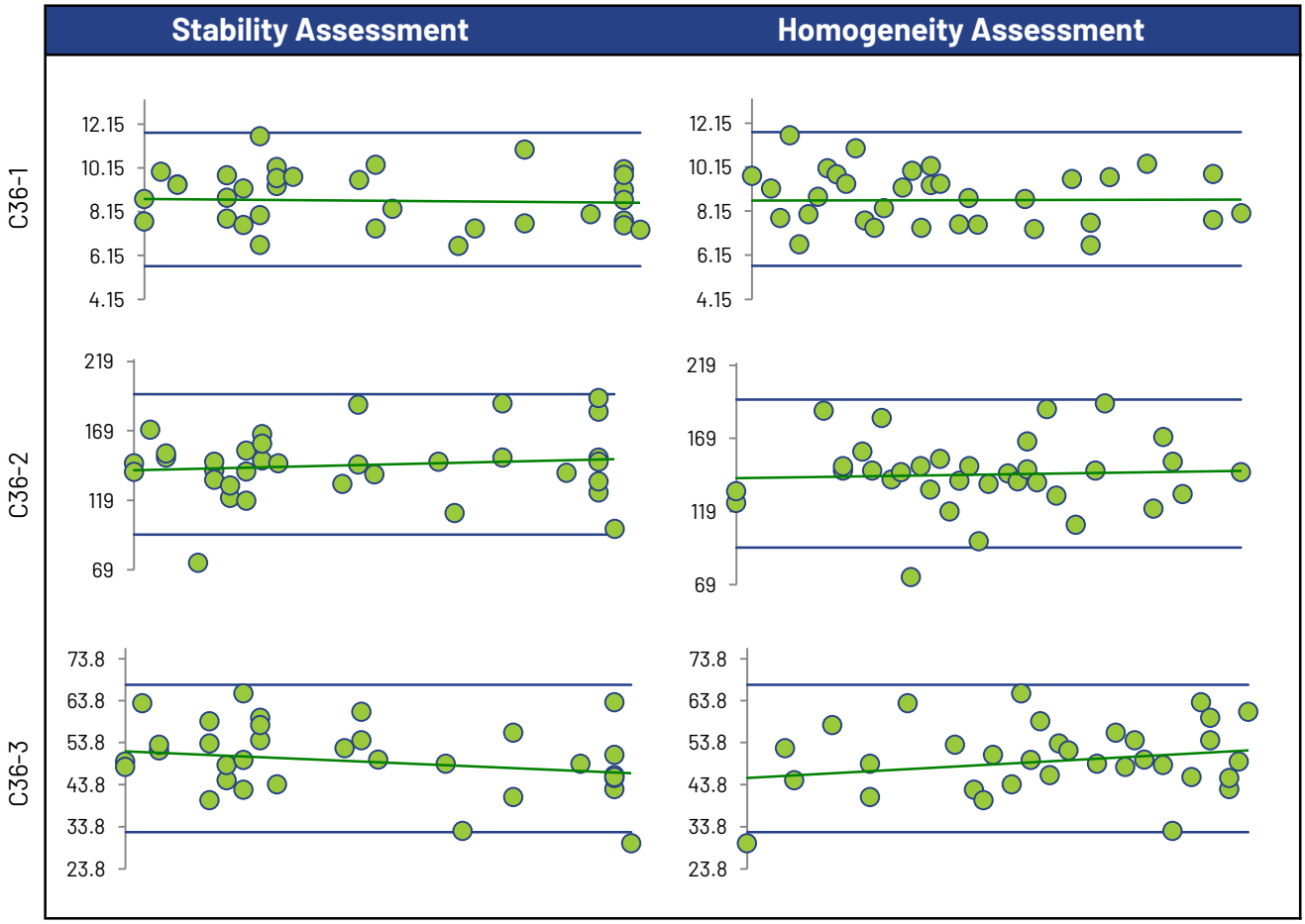
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

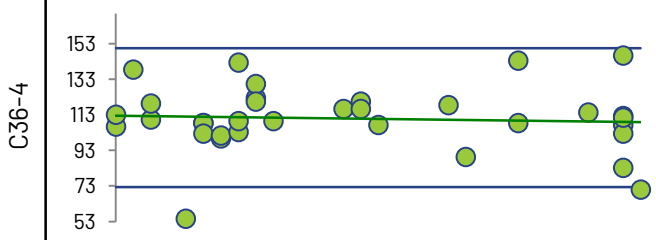
trans-1,3-Dichloropropene



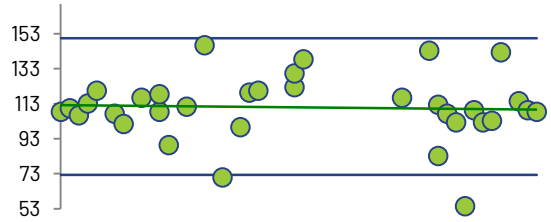


trans-1,3-Dichloropropene

Stability Assessment



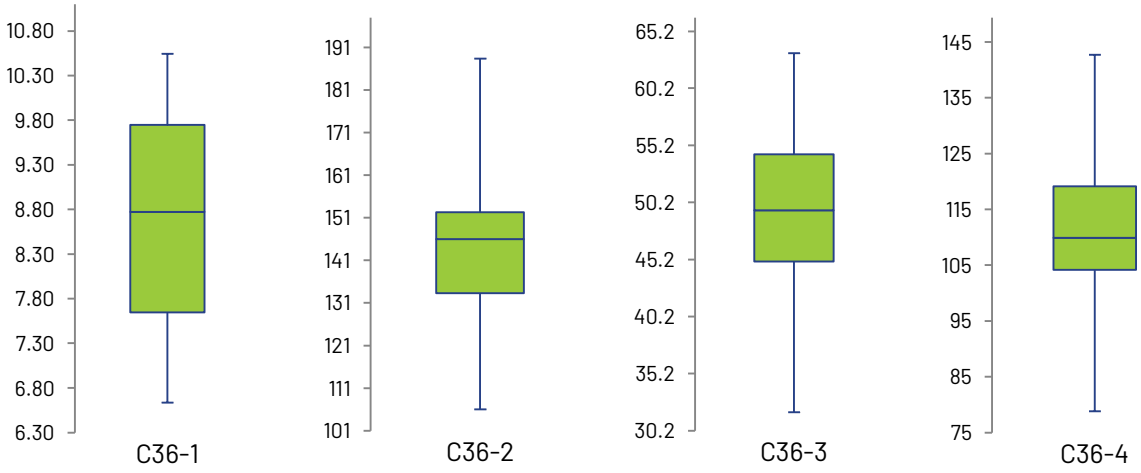
Homogeneity Assessment



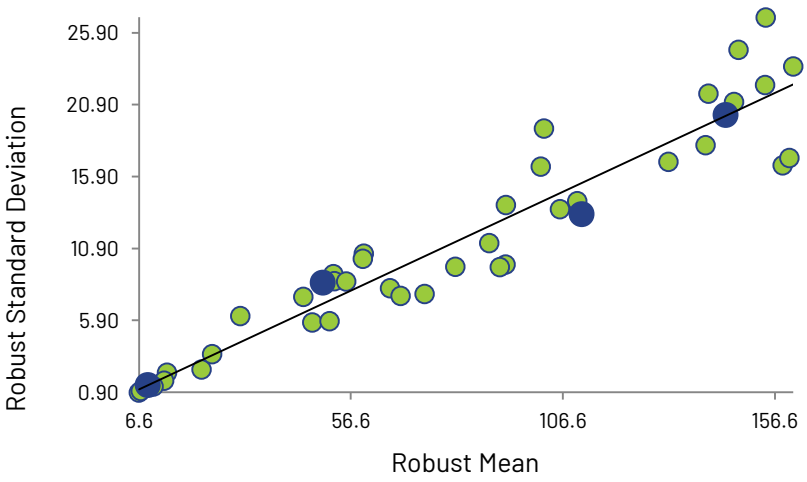
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Trichloroethylene

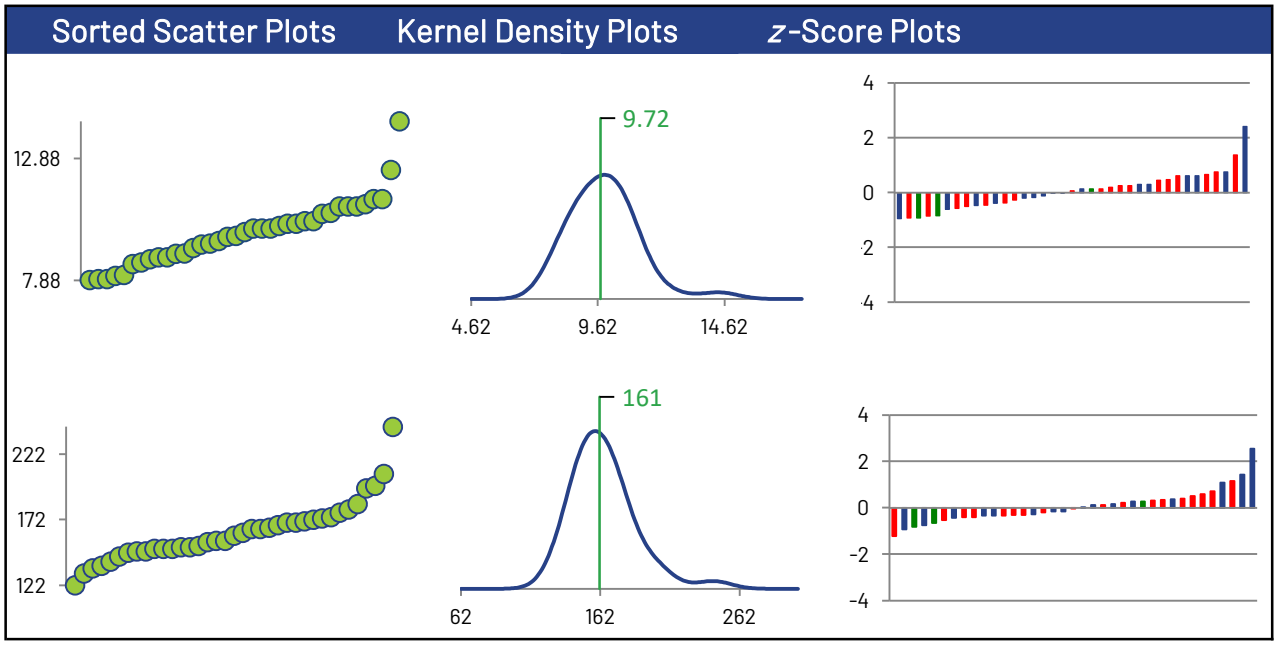
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	37	37	37	37
Median µg/g	9.85	160	56.0	128
Robust Mean µg/g	9.72	161	56.2	127
Uncdrtainty of the Assigned Value µg/g	0.253	3.88	1.71	3.19
Robust Standard Deviation µg/g	1.23	18.9	8.32	15.5
Regression Standard Deviation µg/g	1.94	32.2	11.2	25.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	1.94	32.2	11.2	25.3
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	0	0
2<|z|<3	1	1	0	1
Failure Rate %*	2.7			

Methods Used

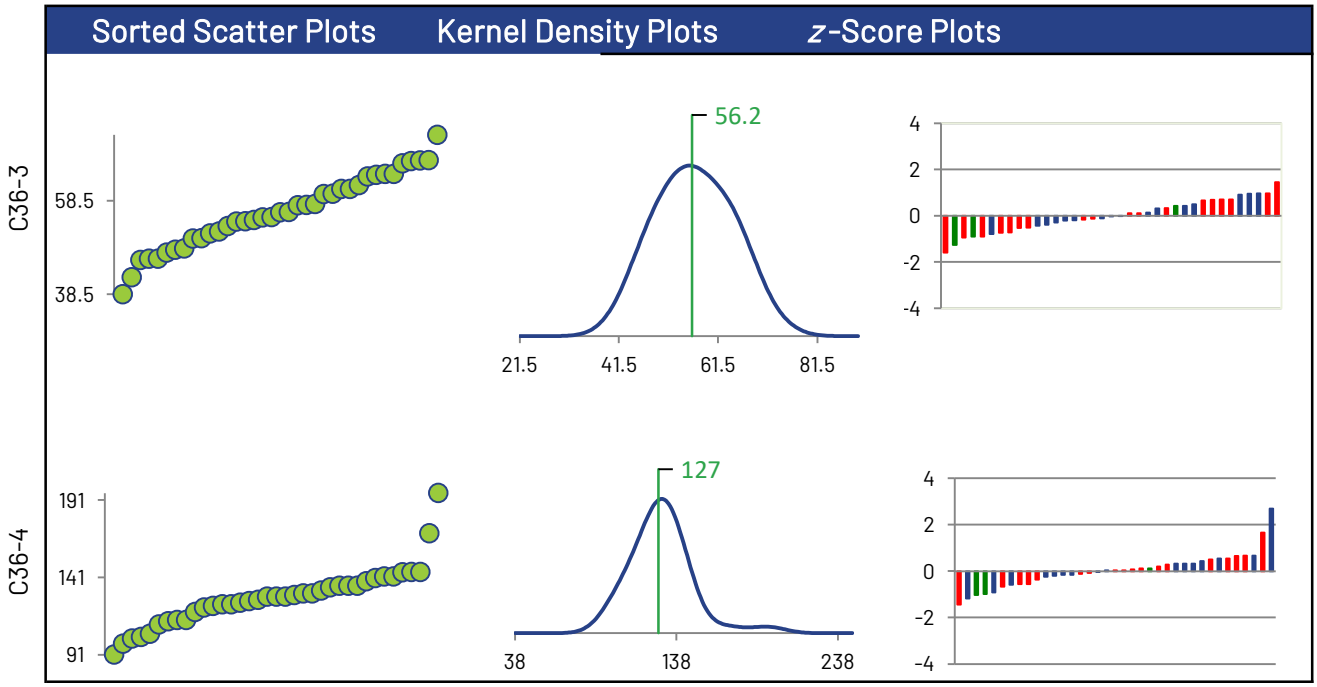
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	16	16	16	16
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS (Green)	3	3	3	3

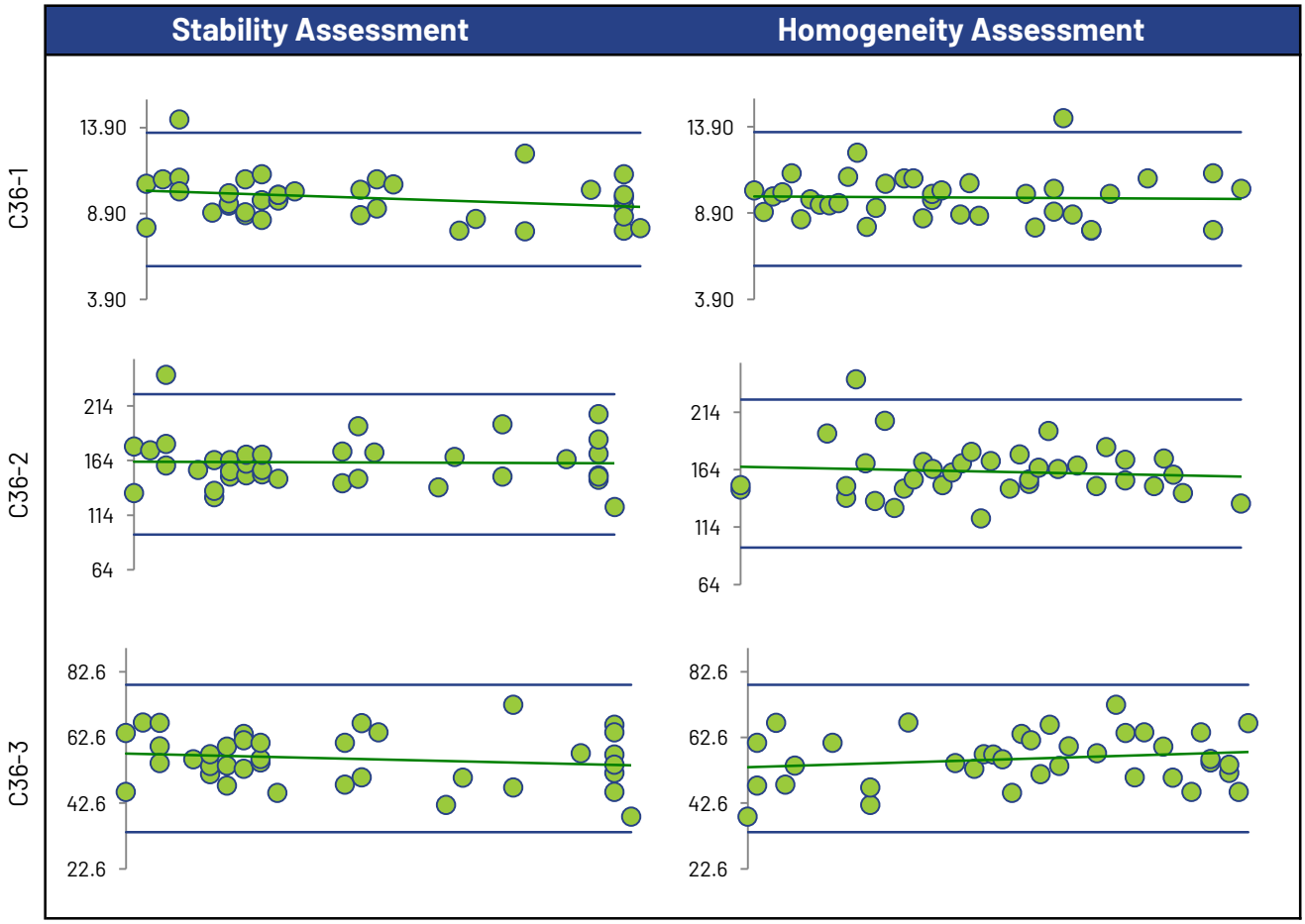
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

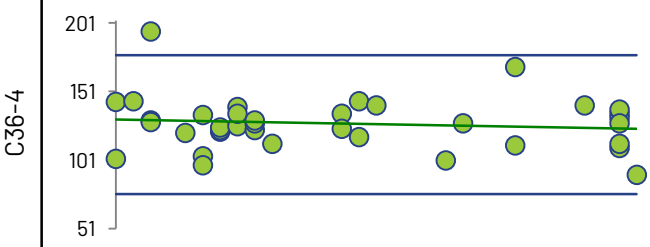
Trichloroethylene



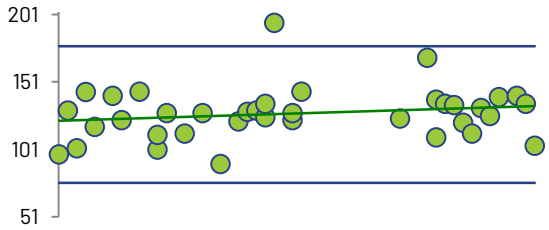


Trichloroethylene

Stability Assessment



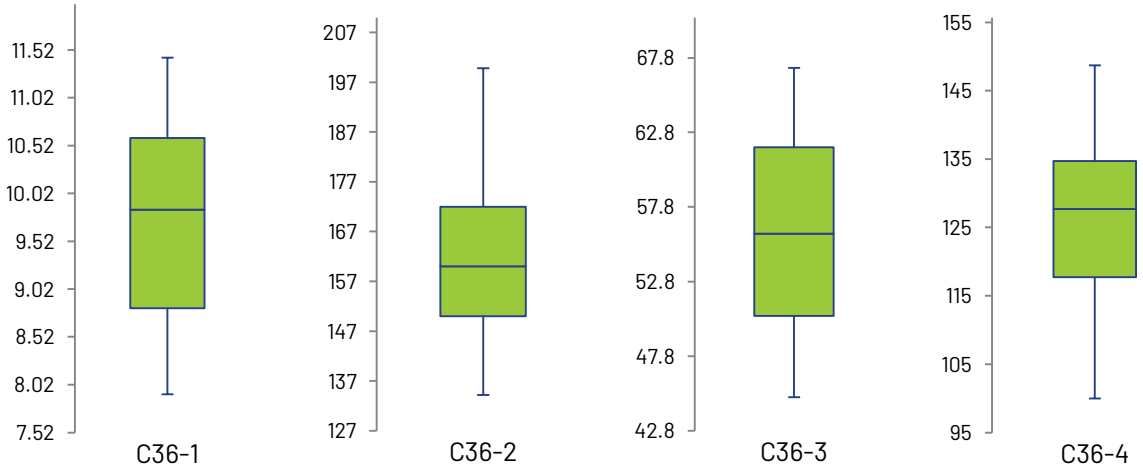
Homogeneity Assessment



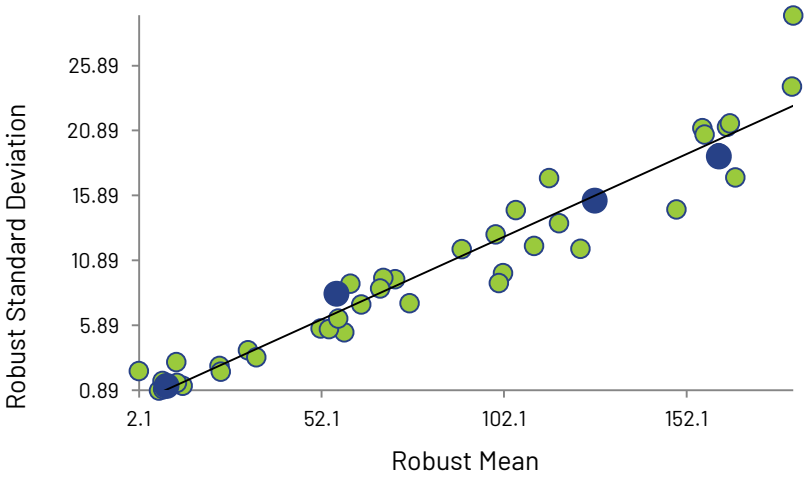
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



Trichlorofluoromethane

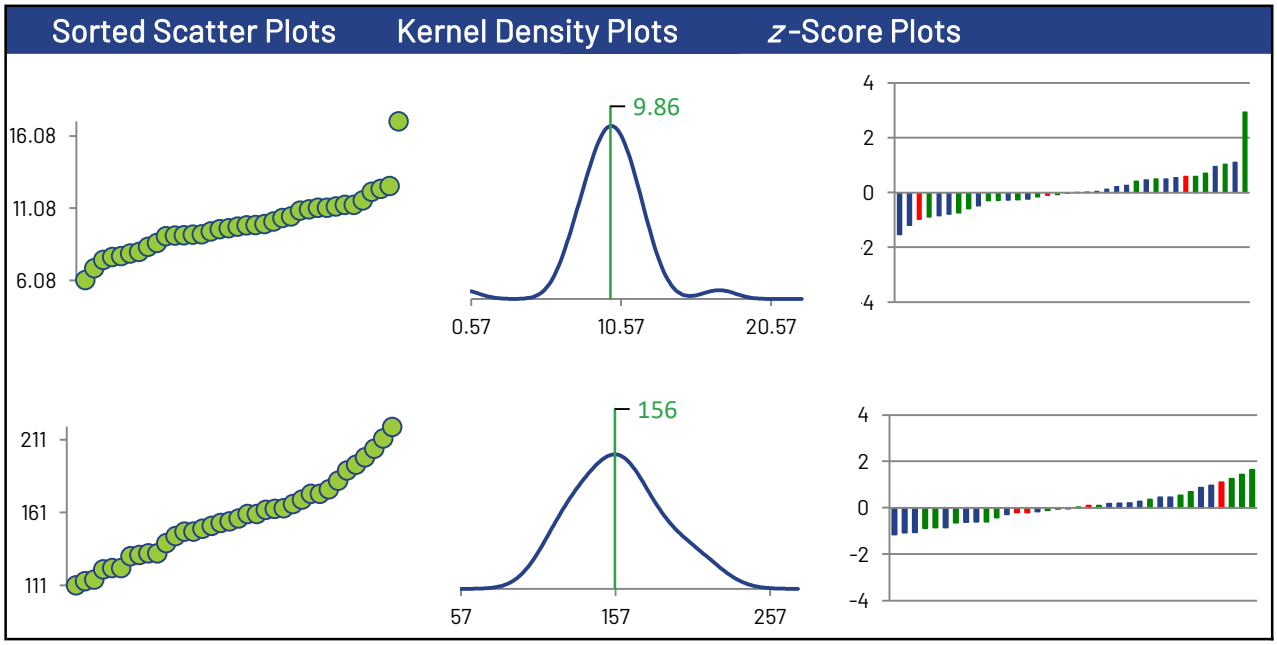
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
No. of results used for summary statistics	36	36	36	36
Median µg/g	9.85	156	56.5	126
Robust Mean µg/g	9.86	156	56.7	122
Uncdrtainty of the Assigned Value µg/g	0.363	6.25	2.15	4.58
Robust Standard Deviation µg/g	1.74	30.0	10.3	22.0
Regression Standard Deviation µg/g	2.46	39.1	14.2	30.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	2.46	39.1	14.2	30.4
Flagged Outliers	0	0	0	0
|z|>3.0	0	0	1	0
2<|z|<3	1	0	1	1
Failure Rate %*	2.8			

Methods Used

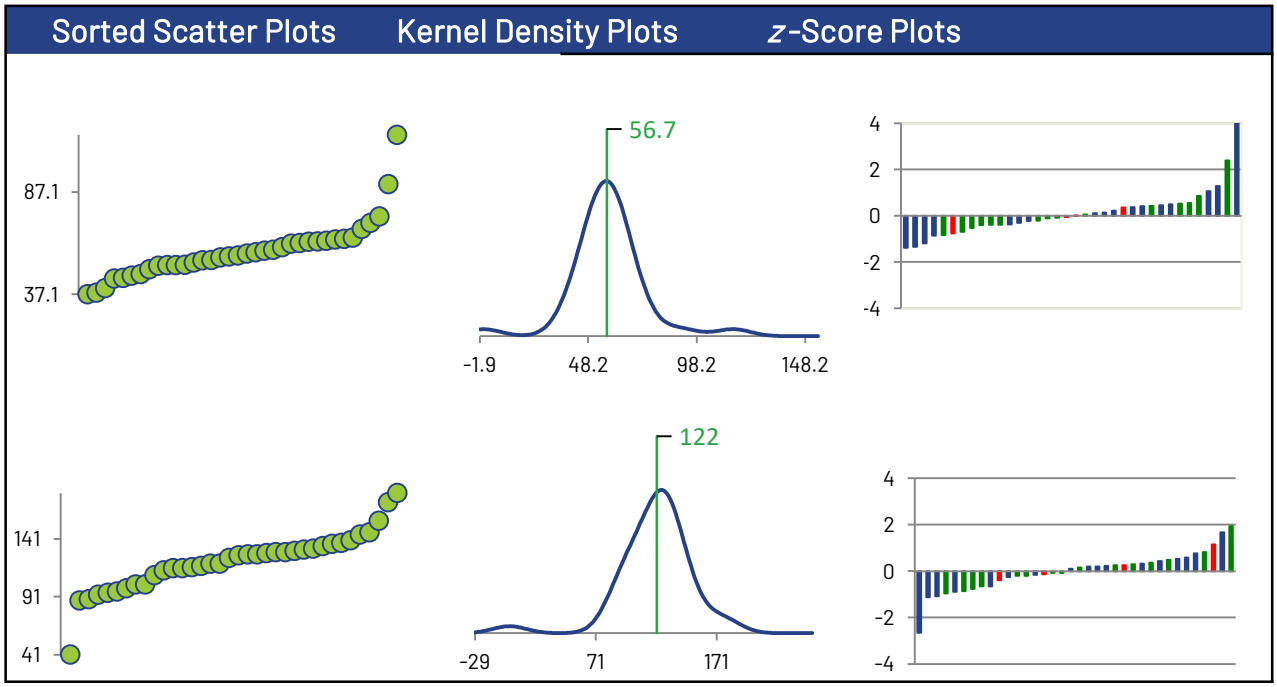
Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	17	17	17	17
GC/MS (Red)	4	4	4	4
GC/MS - HEADSPACE (Green)	15	15	15	15

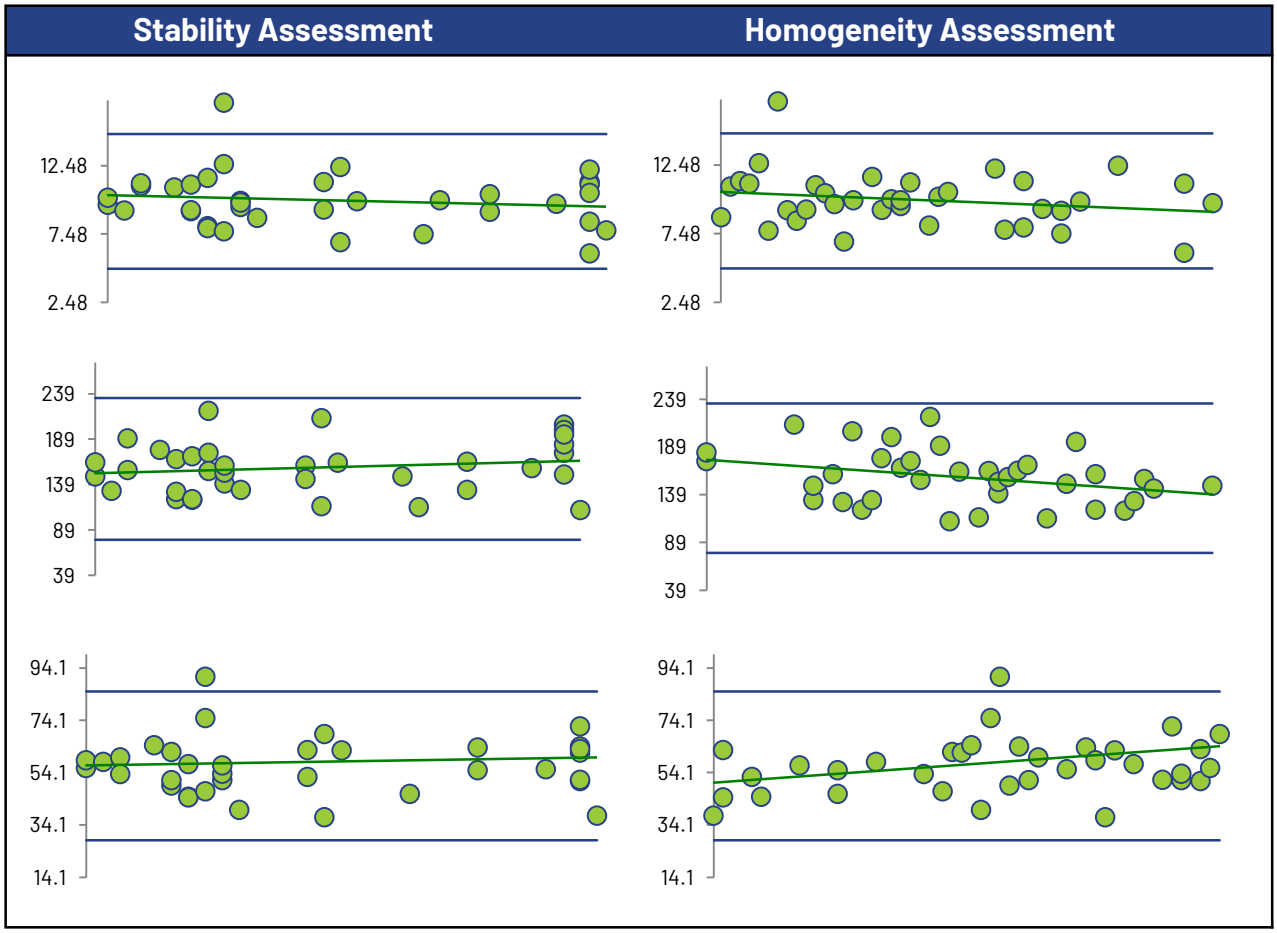
All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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

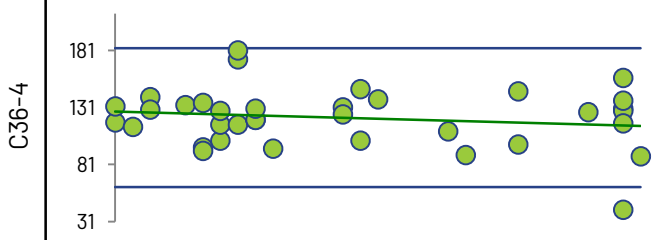
Trichlorofluoromethane



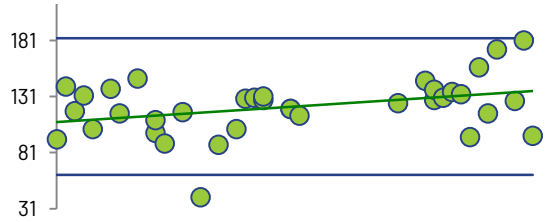


Trichlorofluoromethane

Stability Assessment



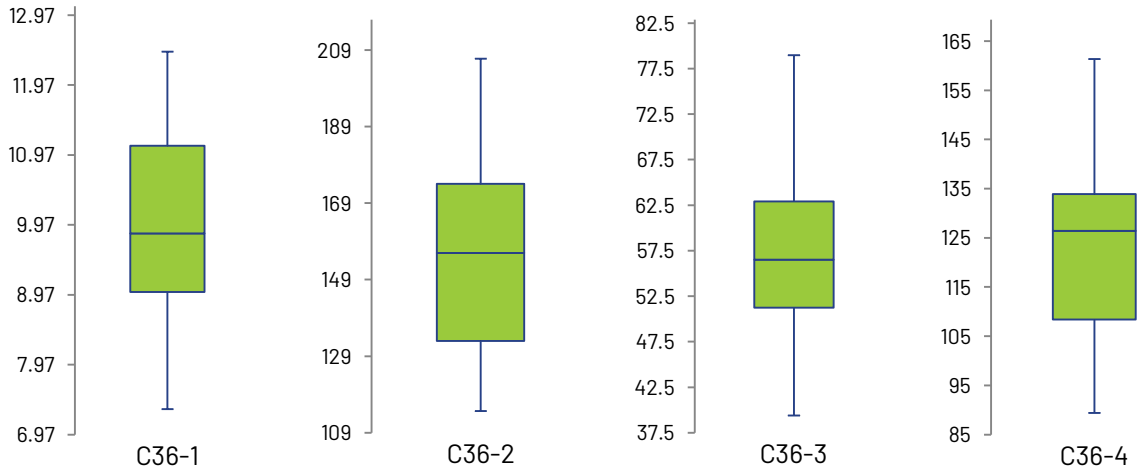
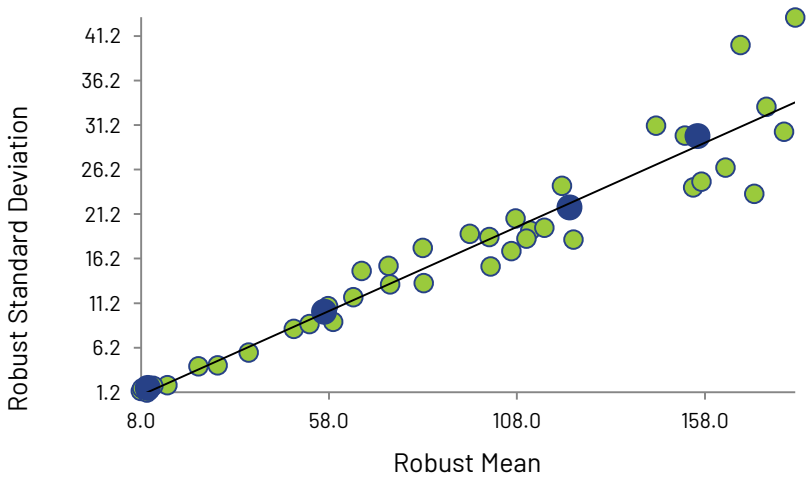
Homogeneity Assessment



Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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