

# **Test Group Summary Report**

## **C39 Inorganics by TCLP**

### **January 2024 PT Round**

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**Issued: March 5, 2024**

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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.

<i>Code:</i>	The registration code that is unique to each analyte that a participant is registered for.
<i>App:</i>	If a participant is accredited by CALA, this three-digit number is the appendix number that the accredited method is assigned to.
<i>N:</i>	The number of participants results that were used to calculate the summary statistics. This excludes qualified data (e.g., <) and any results that were flagged as outliers.
<i>Assigned:</i>	The Assigned Value is the robust mean of the reported results, outliers excluded. This is often referred to as the "target" value.
<i><math>\pm u</math>:</i>	The uncertainty of the assigned value.
<i>Reported:</i>	The result reported by the participant.
<i>s:</i>	The Standard Deviation of Proficiency Assessment (SDPA). This value is used to determine the acceptance limits for the PT evaluation.
<i>z-Score:</i>	A value assigned to each reported result that is a measure of the degree to which it deviates from the Assigned Value.
<i>Score:</i>	The composite score of the four results reported for each analyte. It is normalized to a score out of 100.
<i>Bias:</i>	A flag assigned if bias is detected using the re-scaled <i>z</i> -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](http://www.PTCanada.org)).

### 3.1 HOMOGENEITY AND STABILITY ASSESSMENT

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

### 3.2 THE Z SCORE

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

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

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

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

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

### 3.2 COMPOSITE (PT) SCORE

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

Acceptable PT Scores equal or exceed 70.

### 3.3 IDENTIFYING BIAS

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

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

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 5<sup>th</sup> and 95<sup>th</sup> 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.

## ARSENIC

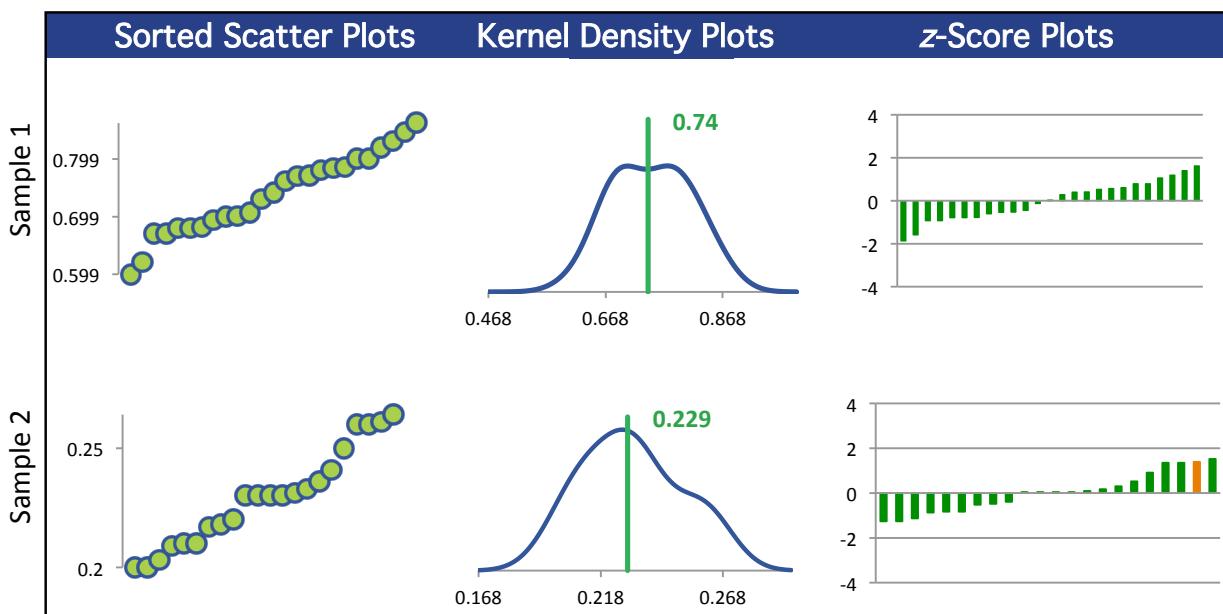
## Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	25	22	0	0
Median mg/L	0.741	0.230		
Robust Mean mg/L	0.740	0.229		
U mg/L	0.0189	0.00613		
Robust Standard Deviation mg/L	0.0755	0.0230		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0755	0.0230		
Outliers	1	0	0	0
$ z  > 3.0$	0	0	0	0
$2 <  z  < 3$	0	0	0	0

## Methods Used

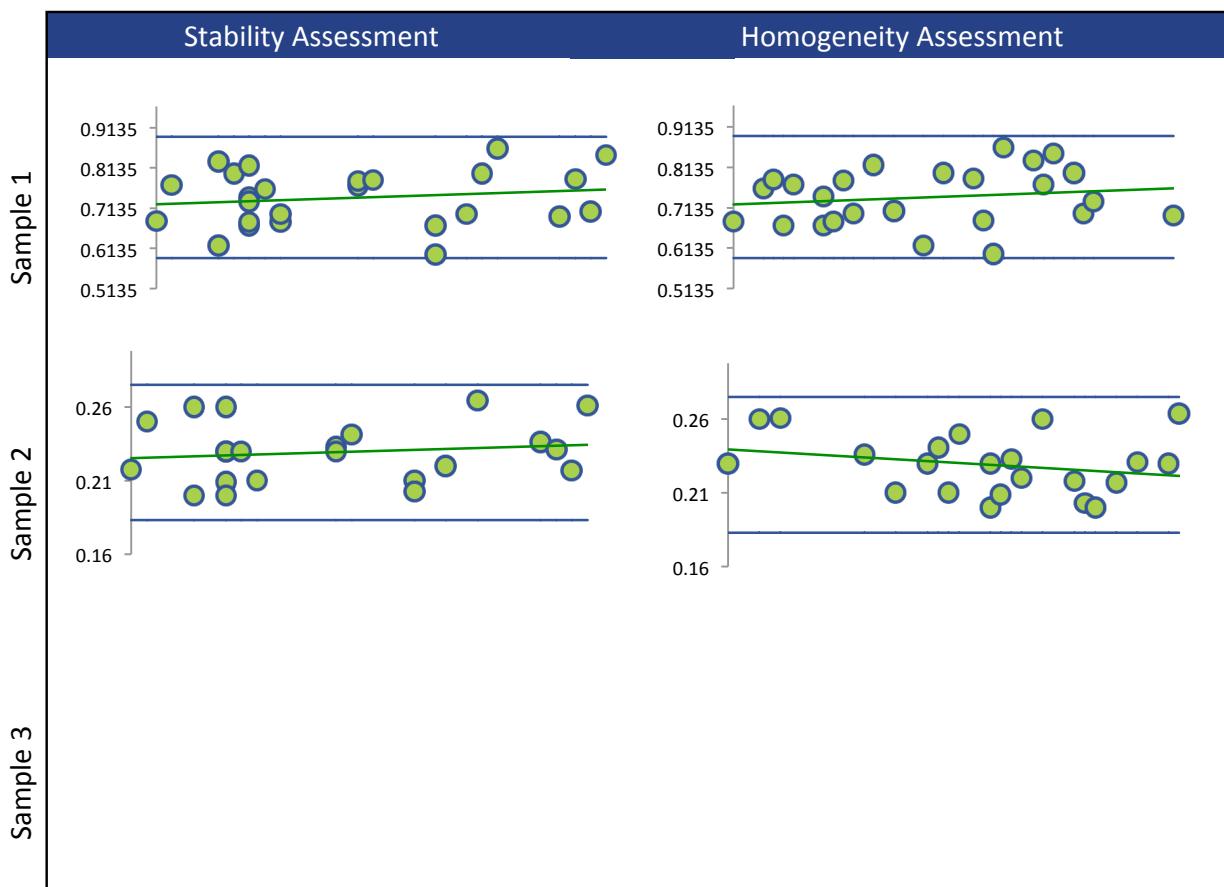
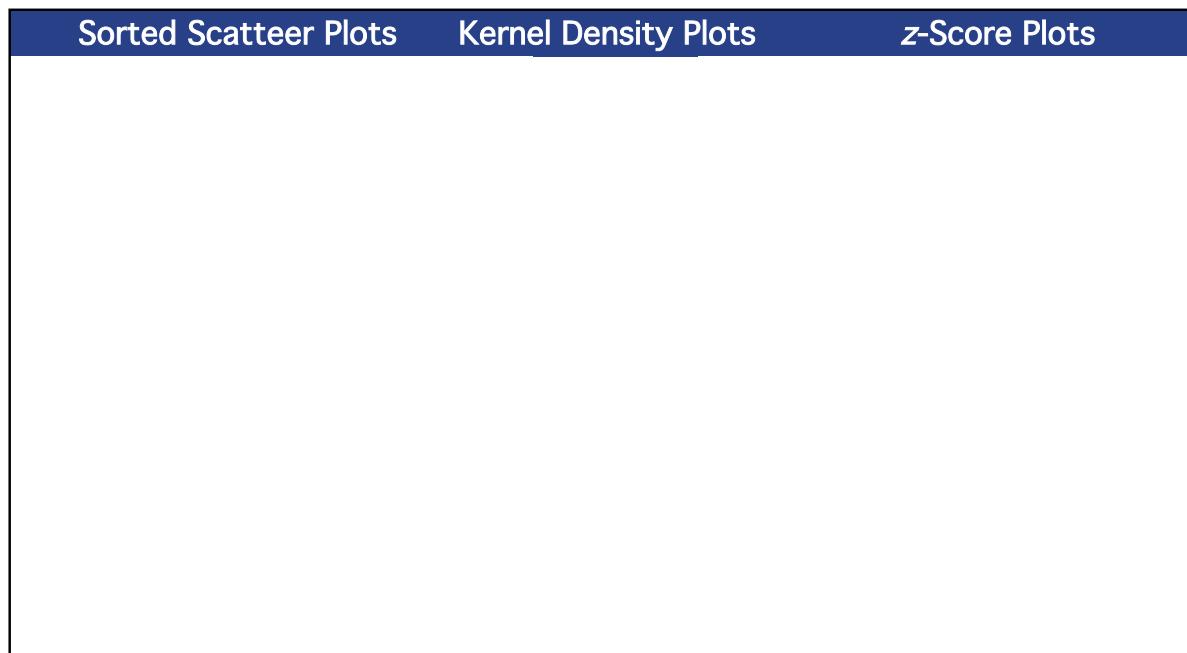
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	17	17	0	0
ICP/OES (Red)	8	5	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



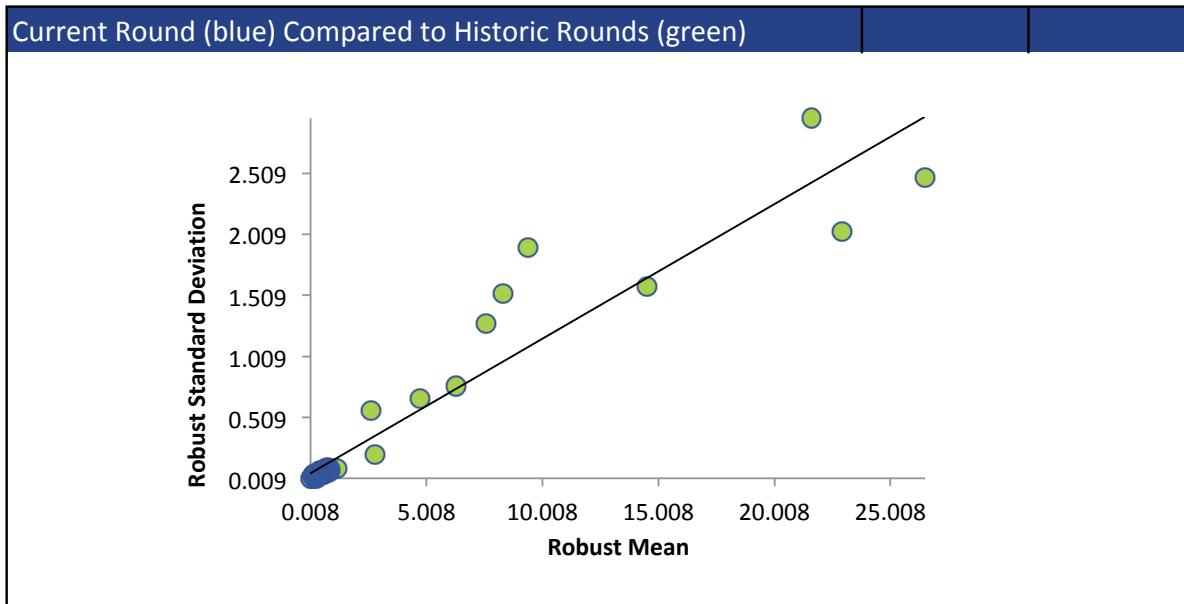
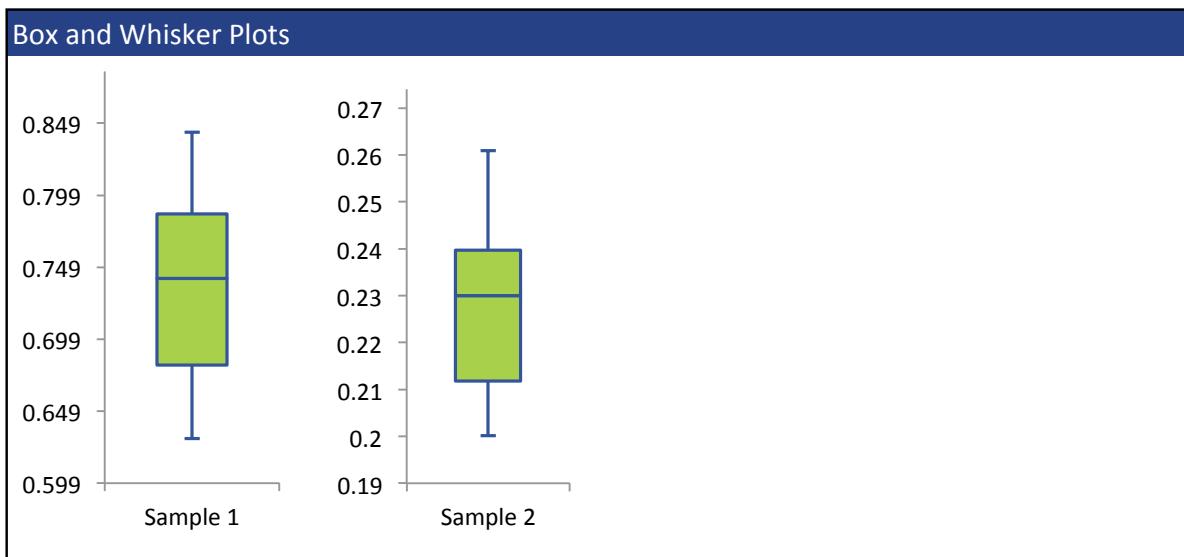
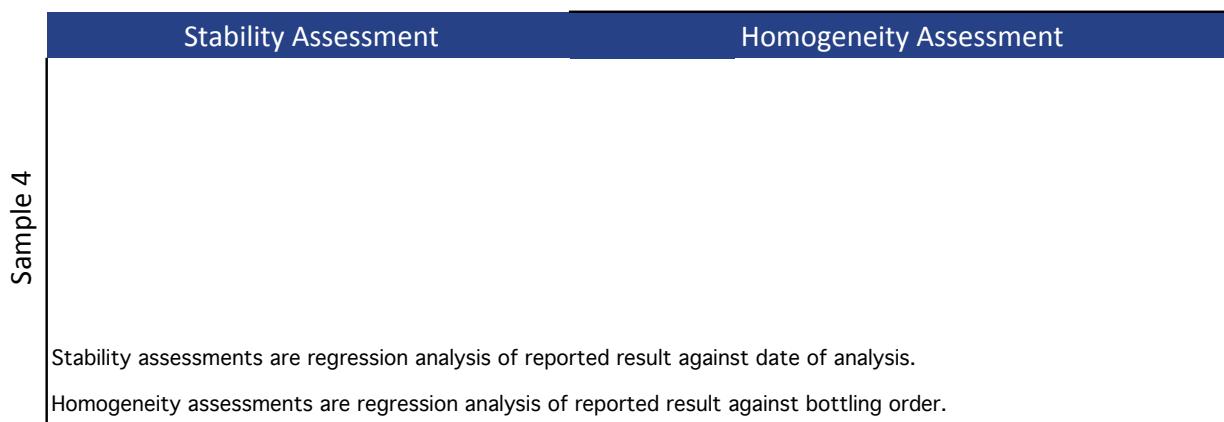
## Annex A Summary by Analyte

### ARSENIC



## Annex A Summary by Analyte

### ARSENIC



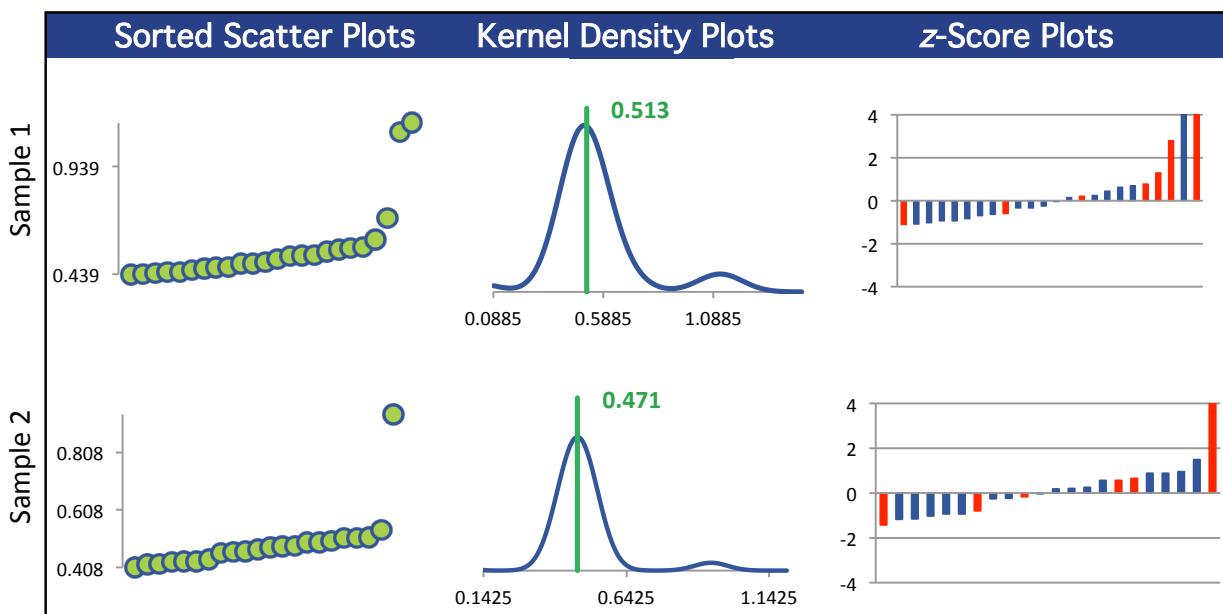
**BARIUM****Summary Statistics**

Statistic	C39-1	C39-2	C39-3	C39-4
N	24	22	0	0
Median mg/L	0.503	0.475		
Robust Mean mg/L	0.513	0.471		
U mg/L	0.0170	0.0118		
Robust Standard Deviation mg/L	0.0667	0.0443		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0667	0.0443		
Outliers	0	0	0	0
$ z  > 3.0$	2	1	0	0
$2 <  z  < 3$	1	0	0	0

**Methods Used**

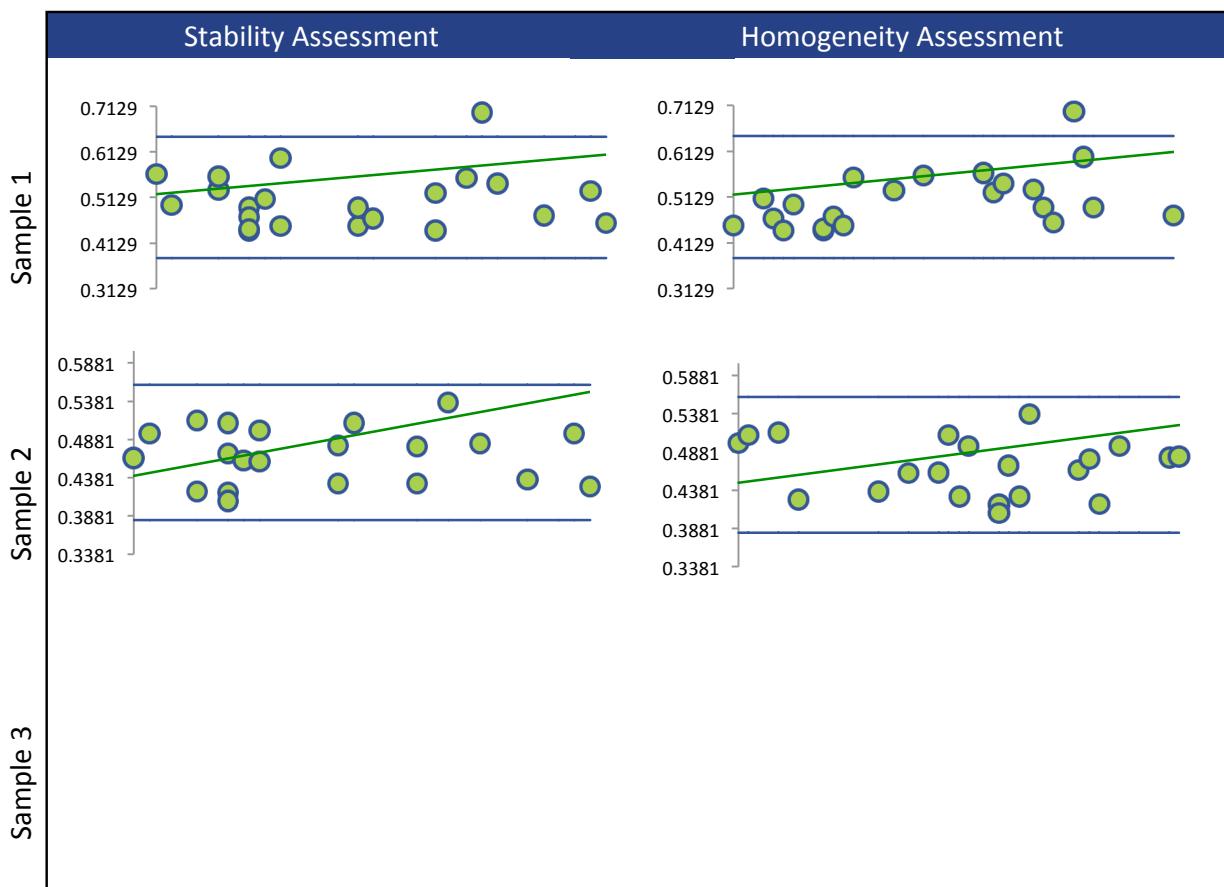
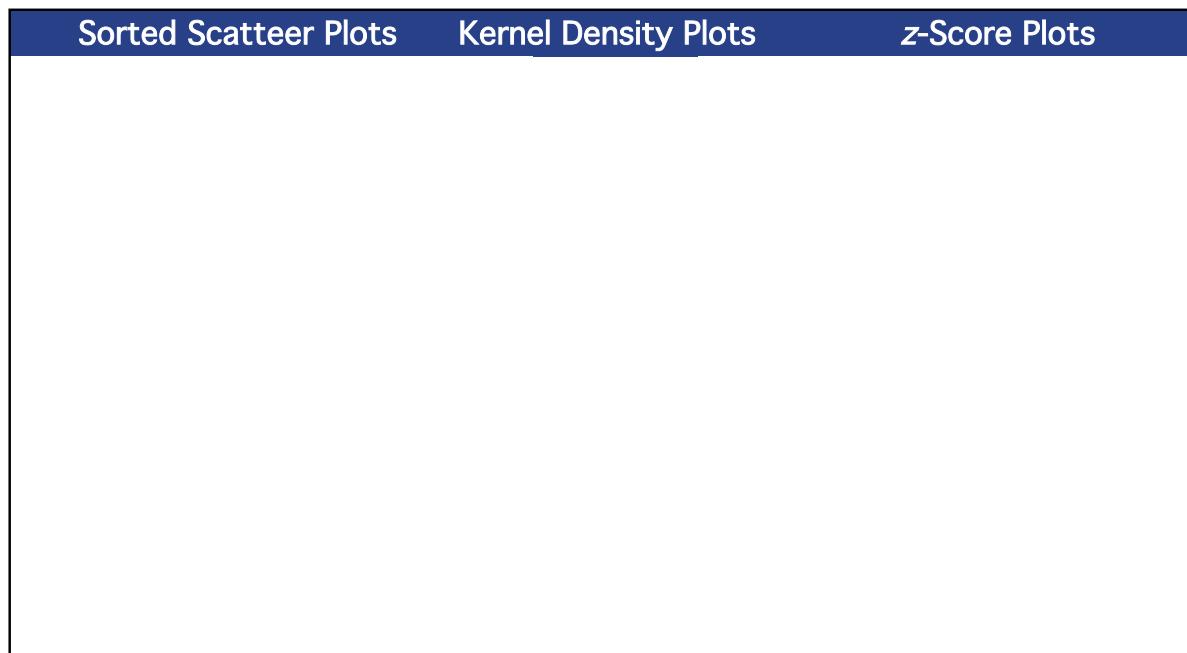
Method	C39-1	C39-2	C39-3	C39-4
ICP/OES (Blue)	7	6	0	0
ICP/MS (Red)	17	16	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



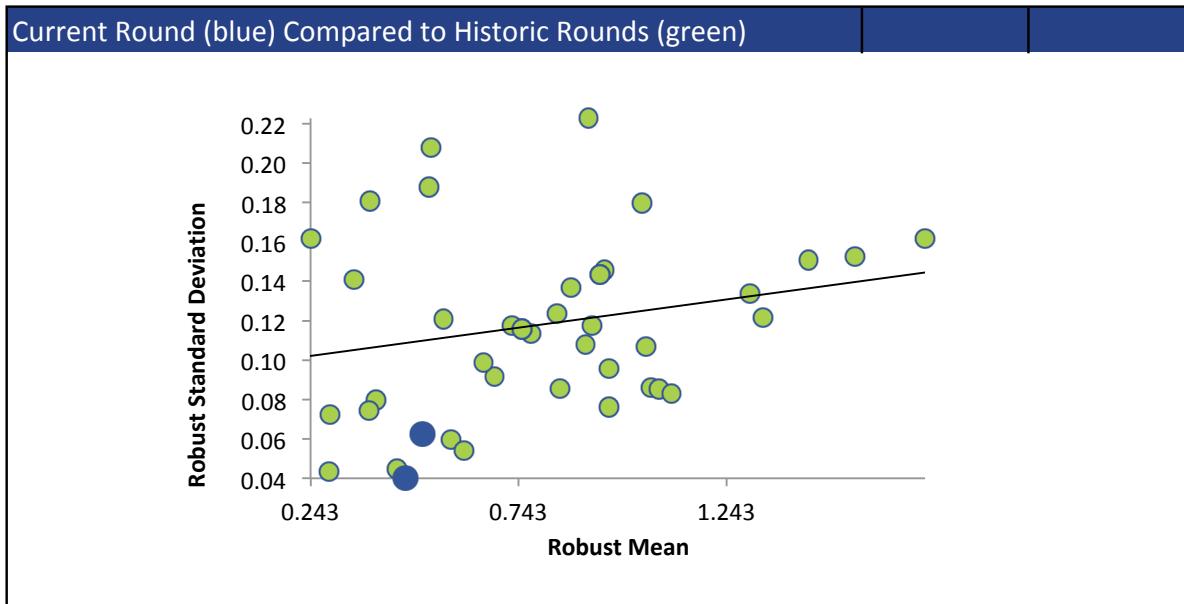
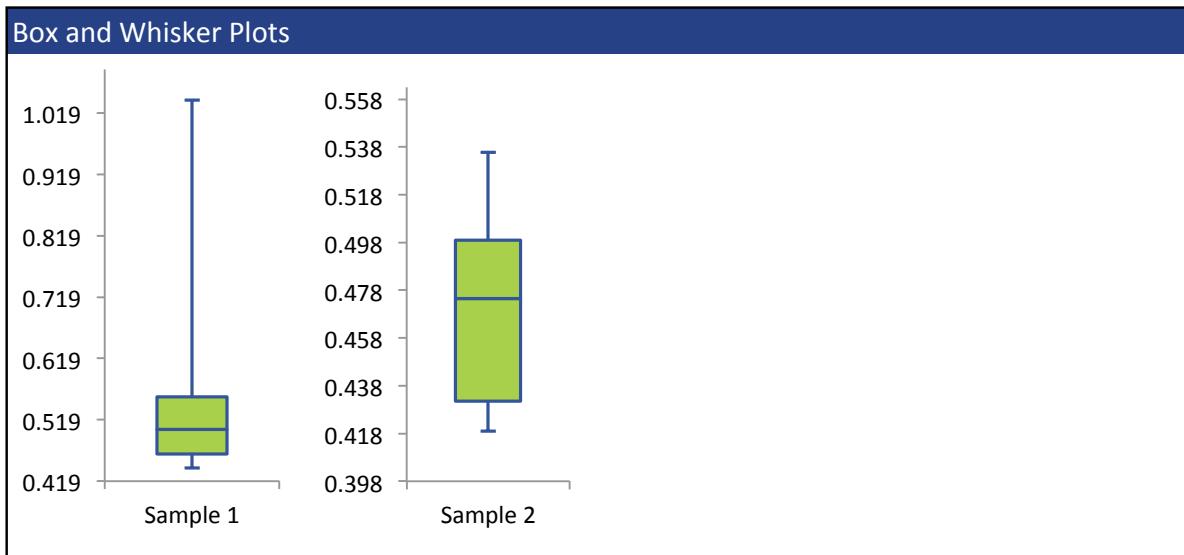
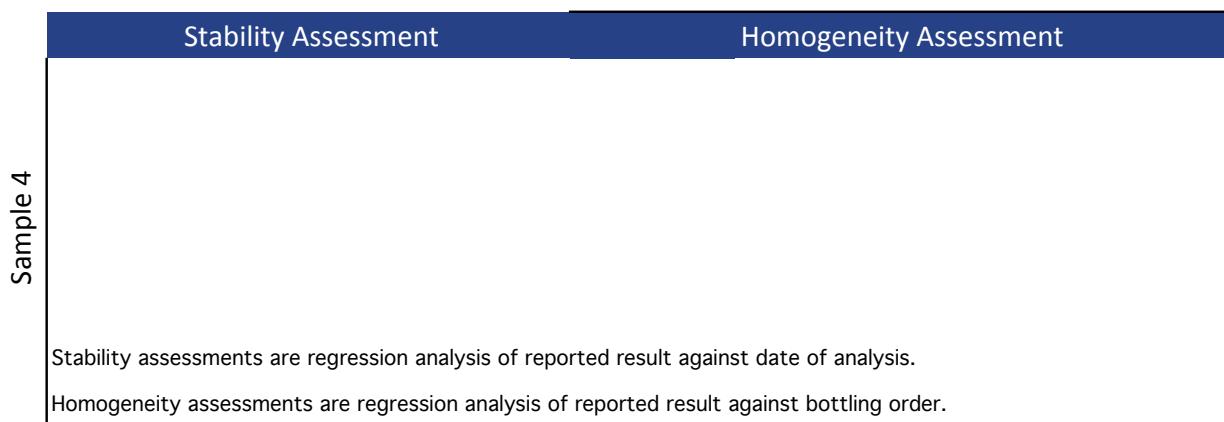
## Annex A Summary by Analyte

### BARIUM



## Annex A Summary by Analyte

### BARIUM



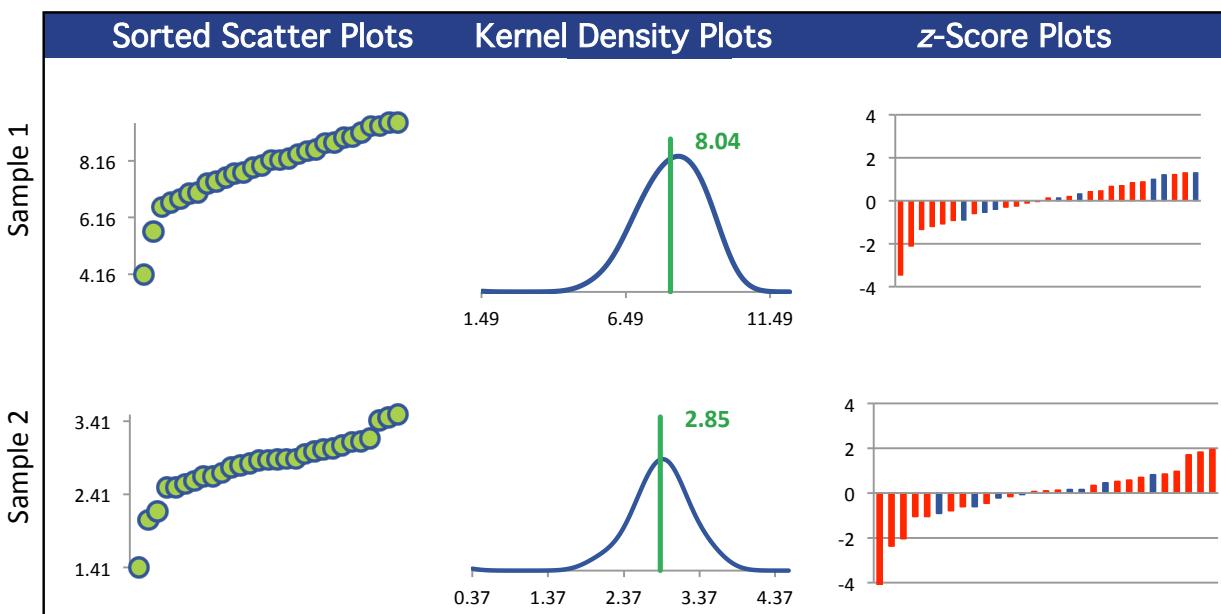
**BORON****Summary Statistics**

Statistic	C39-1	C39-2	C39-3	C39-4
N	29	29	0	0
Median mg/L	8.18	2.88		
Robust Mean mg/L	8.04	2.85		
U mg/L	0.260	0.0778		
Robust Standard Deviation mg/L	1.12	0.335		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	1.12	0.335		
Outliers	1	1	0	0
$ z  > 3.0$	1	1	0	0
$2 <  z  < 3$	1	2	0	0

**Methods Used**

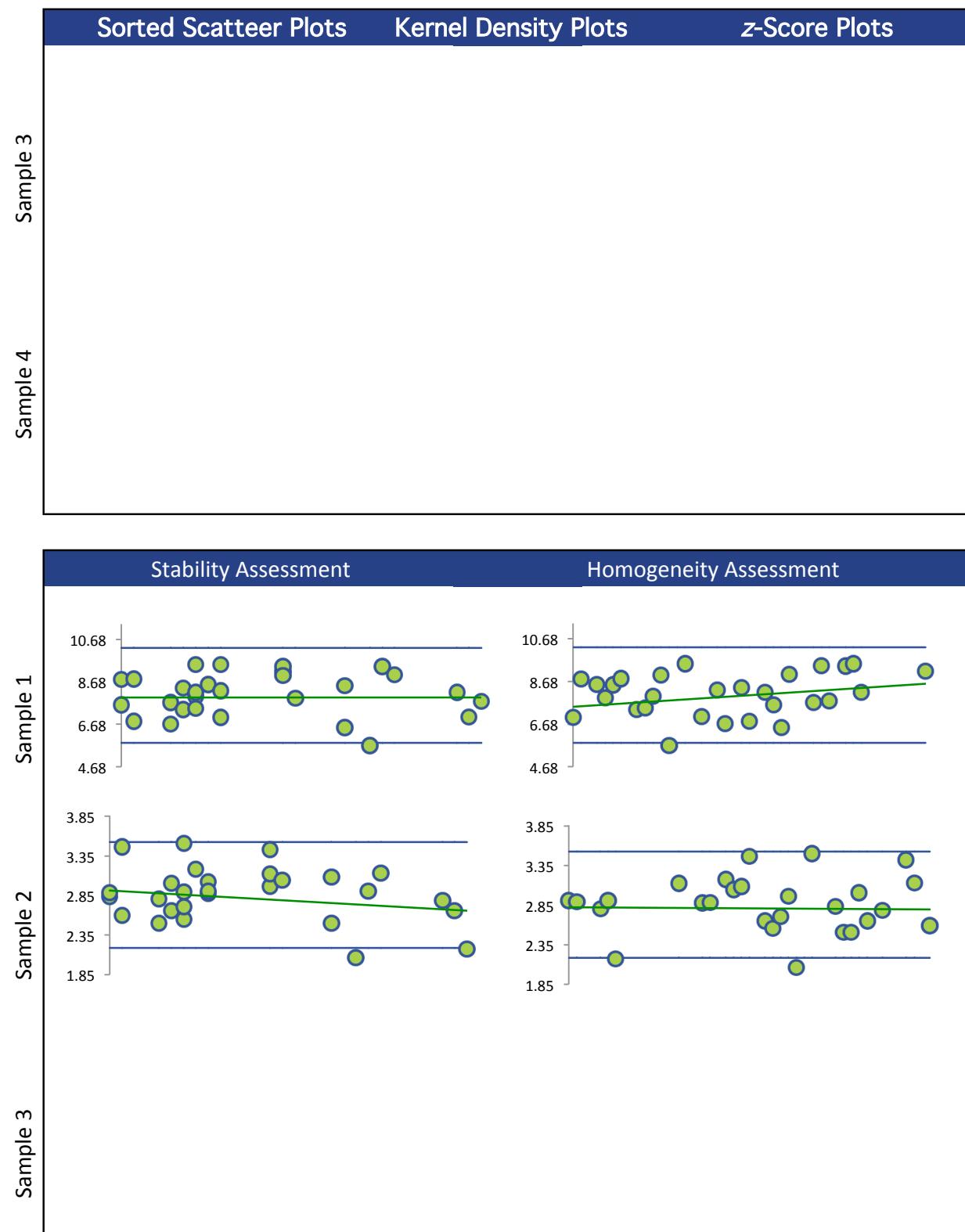
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	21	21	0	0
ICP/OES (Red)	8	8	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



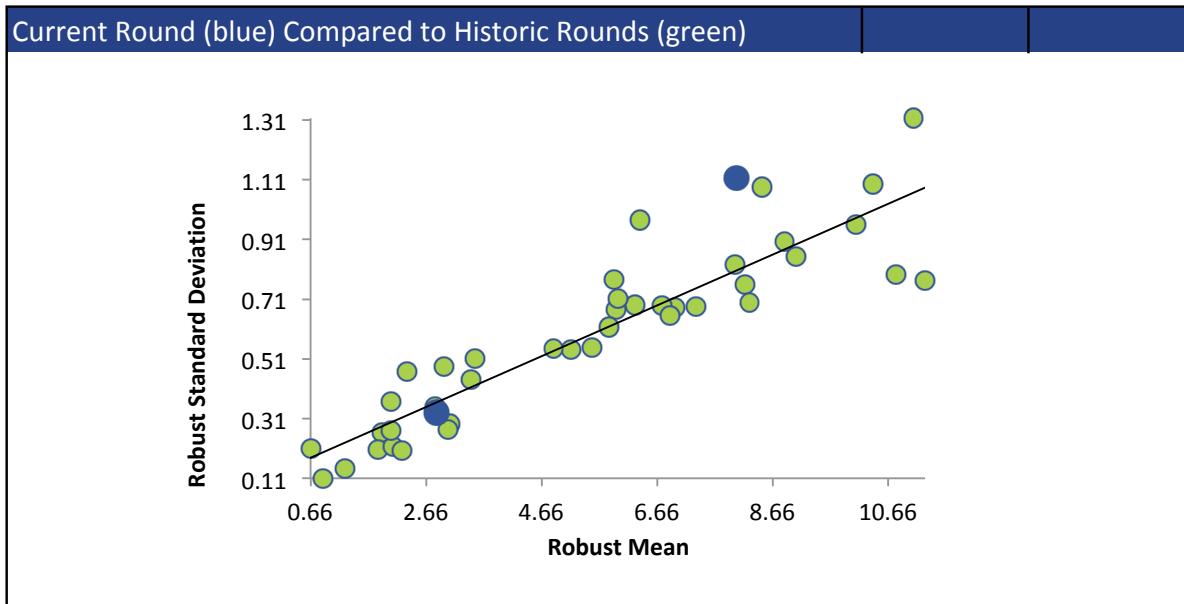
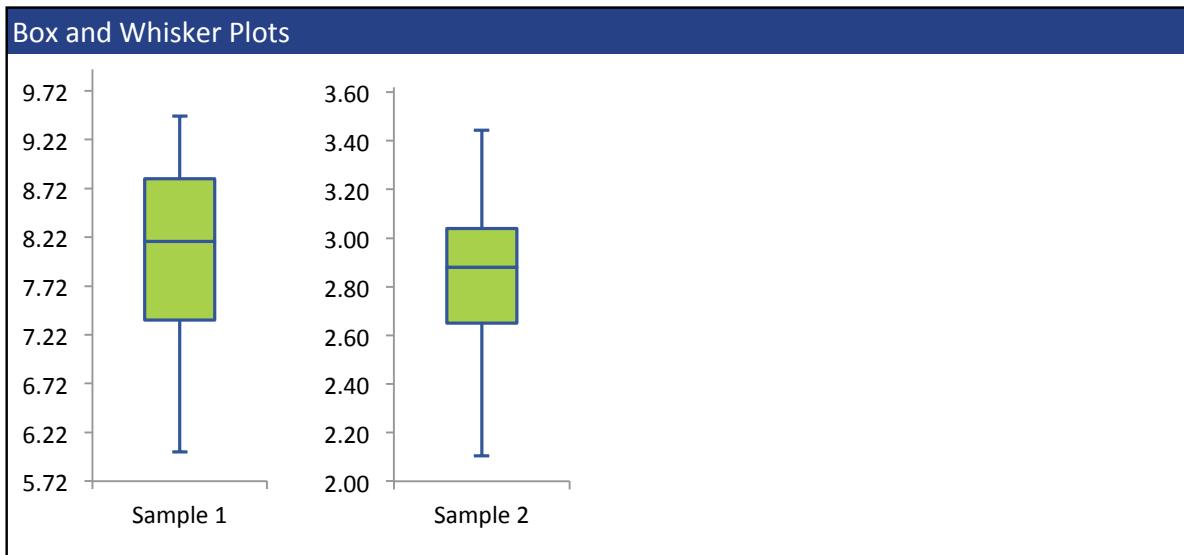
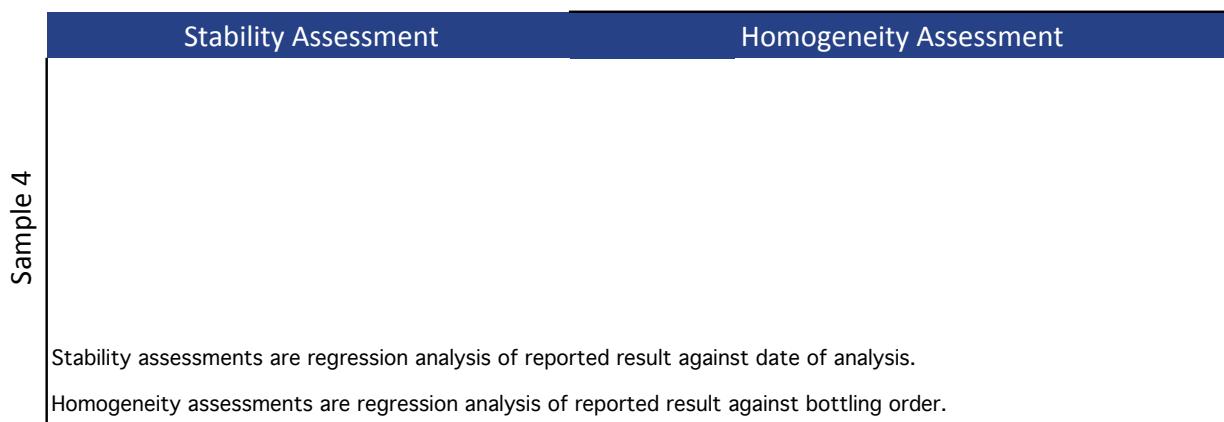
## Annex A Summary by Analyte

### BORON



## Annex A Summary by Analyte

### BORON



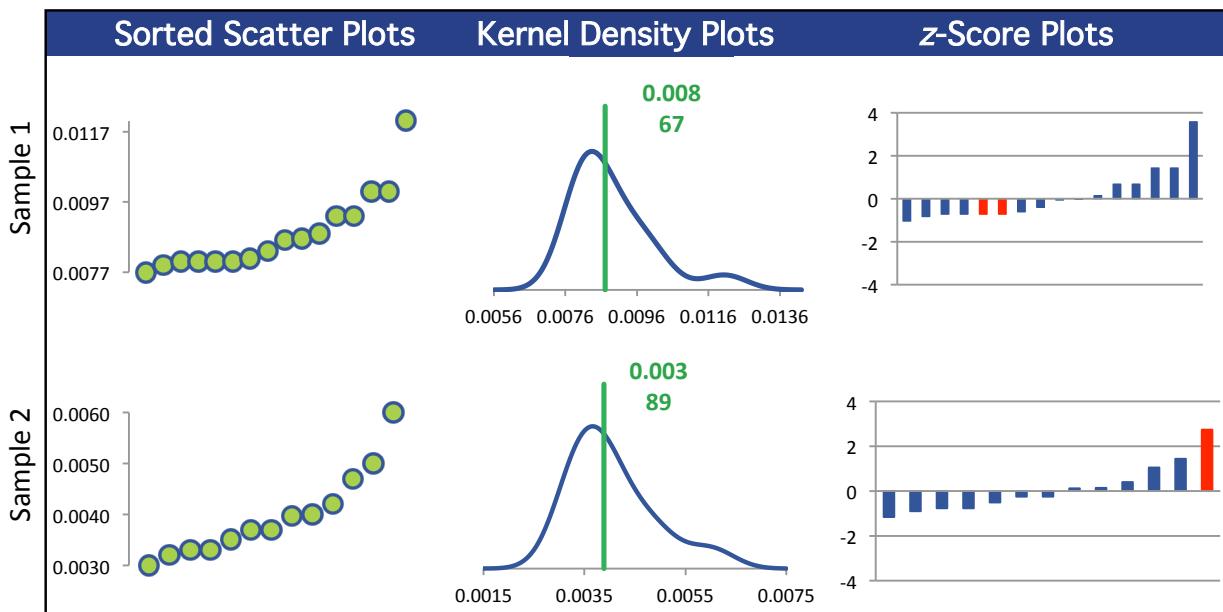
**CADMIUM****Summary Statistics**

Statistic	C39-1	C39-2	C39-3	C39-4
N	16	13	0	0
Median mg/L	0.00846	0.00370		
Robust Mean mg/L	0.00867	0.00389		
U mg/L	0.000291	0.000267		
Robust Standard Deviation mg/L	0.000930	0.000770		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.000930	0.000770		
Outliers	0	0	0	0
$ z  > 3.0$	1	0	0	0
$2 <  z  < 3$	0	1	0	0

**Methods Used**

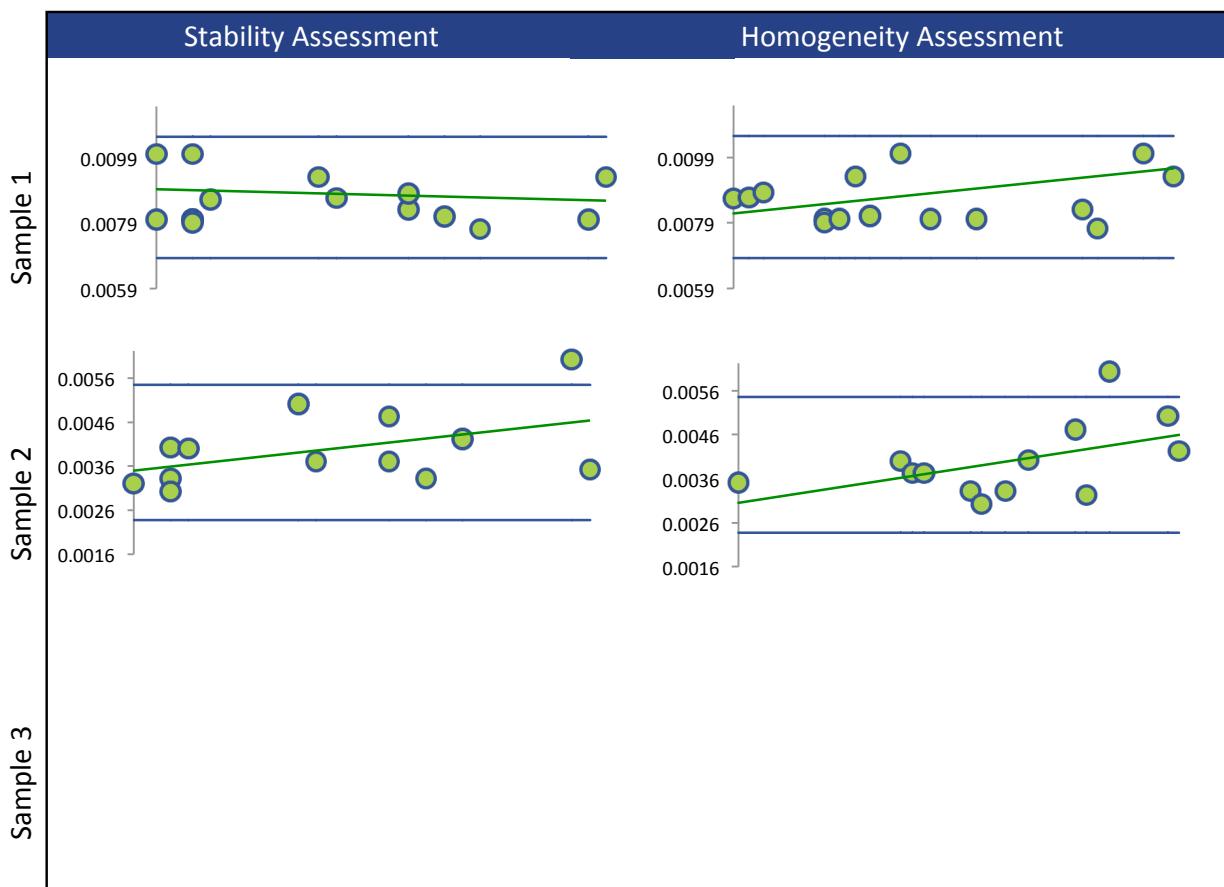
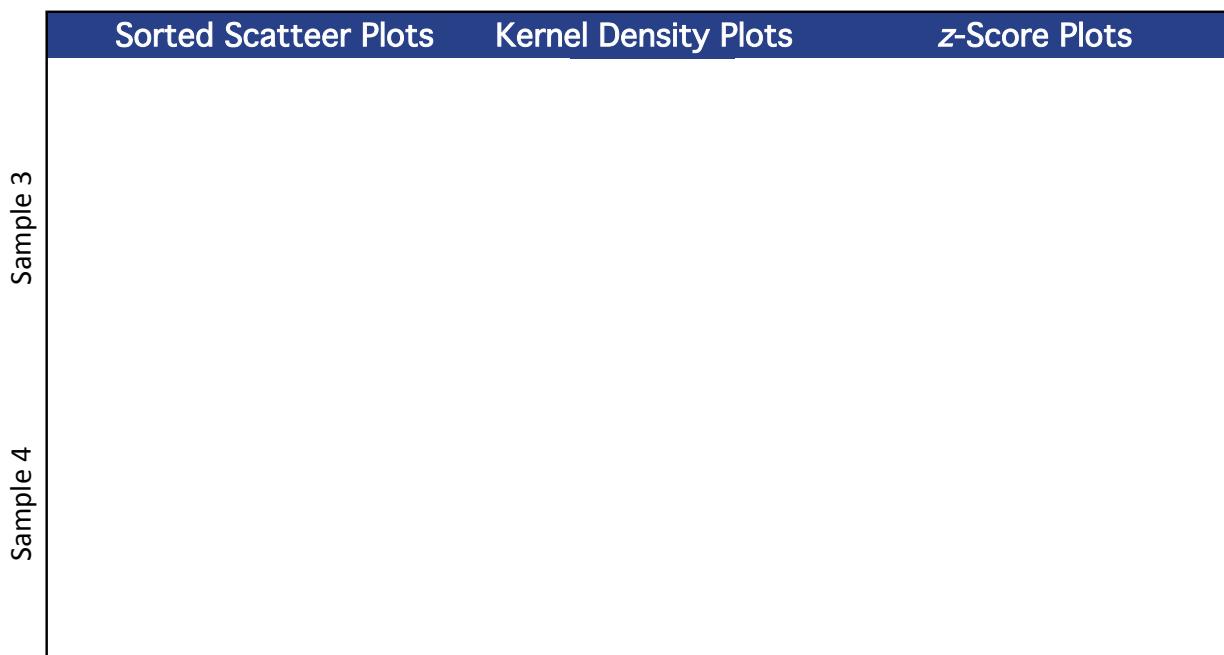
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	14	12	0	0
ICP/OES (Red)	2	1	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



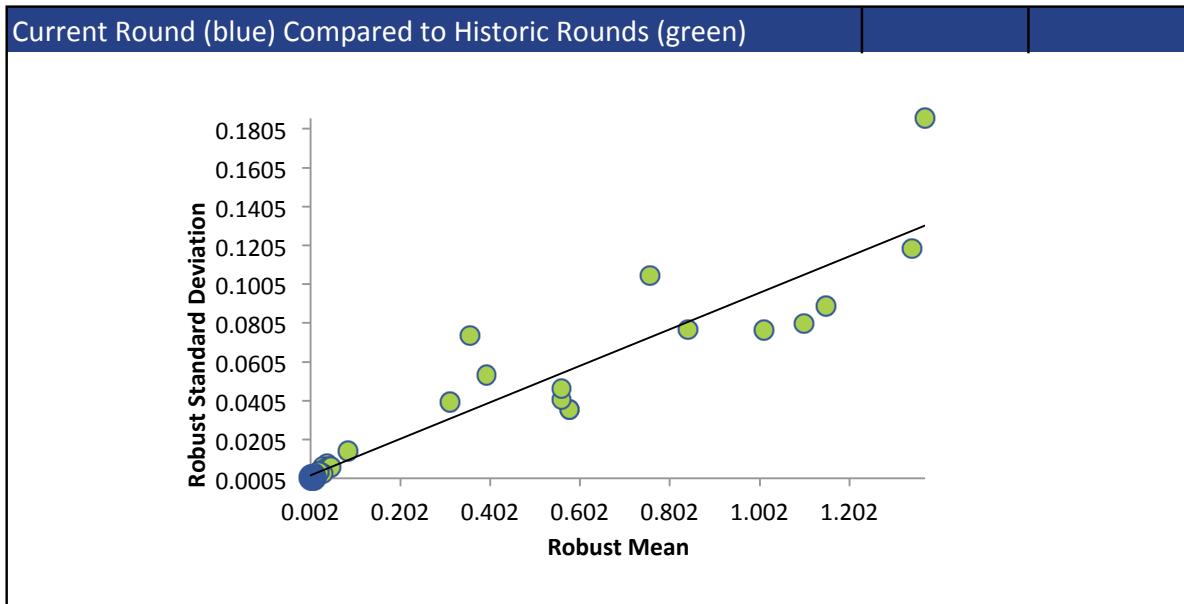
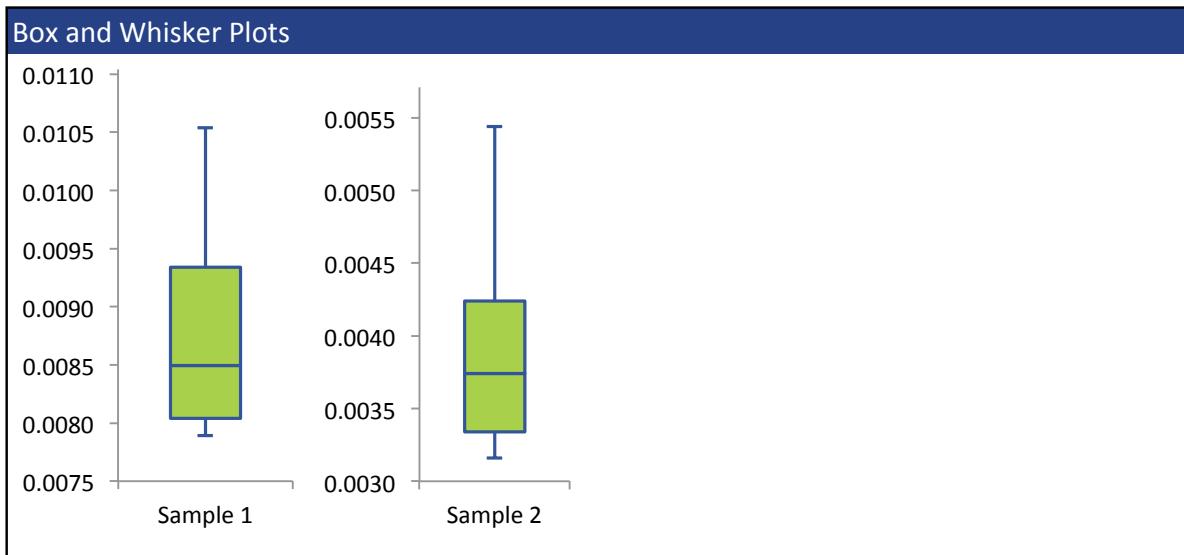
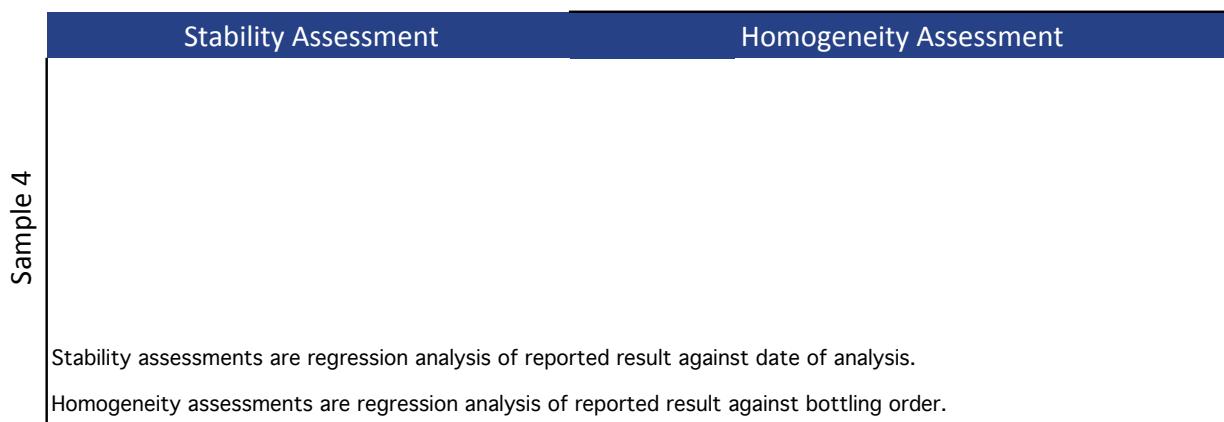
## Annex A Summary by Analyte

### CADMIUM



## Annex A Summary by Analyte

### CADMIUM



## CHROMIUM

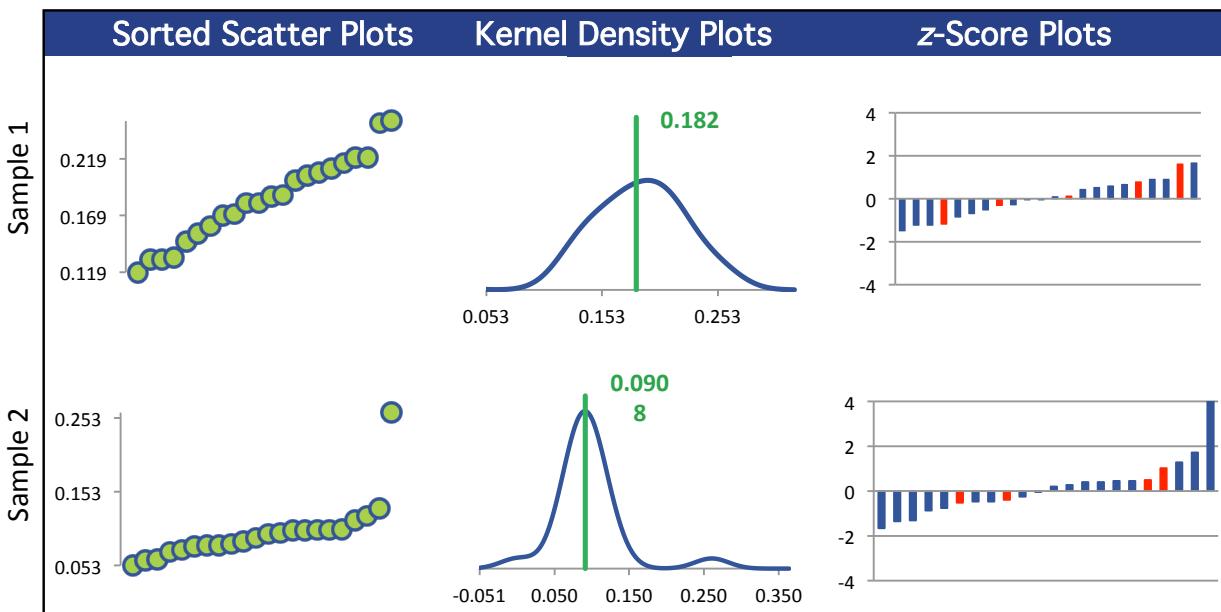
### Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	22	22	0	0
Median mg/L	0.183	0.0927		
Robust Mean mg/L	0.182	0.0908		
U mg/L	0.0112	0.00608		
Robust Standard Deviation mg/L	0.0422	0.0228		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0422	0.0228		
Outliers	0	0	0	0
$ z  > 3.0$	0	1	0	0
$2 <  z  < 3$	0	0	0	0

### Methods Used

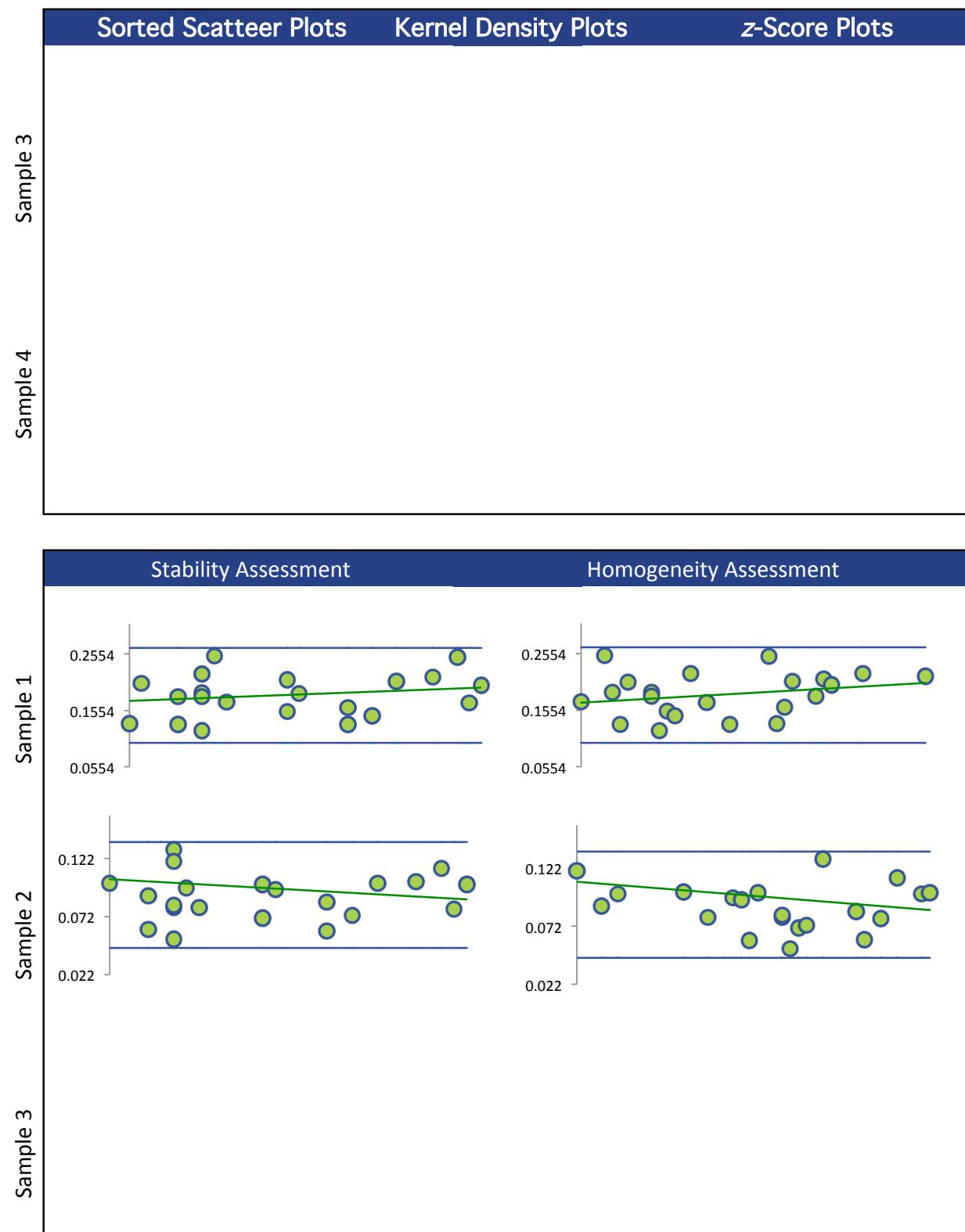
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	17	18	0	0
ICP/OES (Red)	5	4	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



## Annex A Summary by Analyte

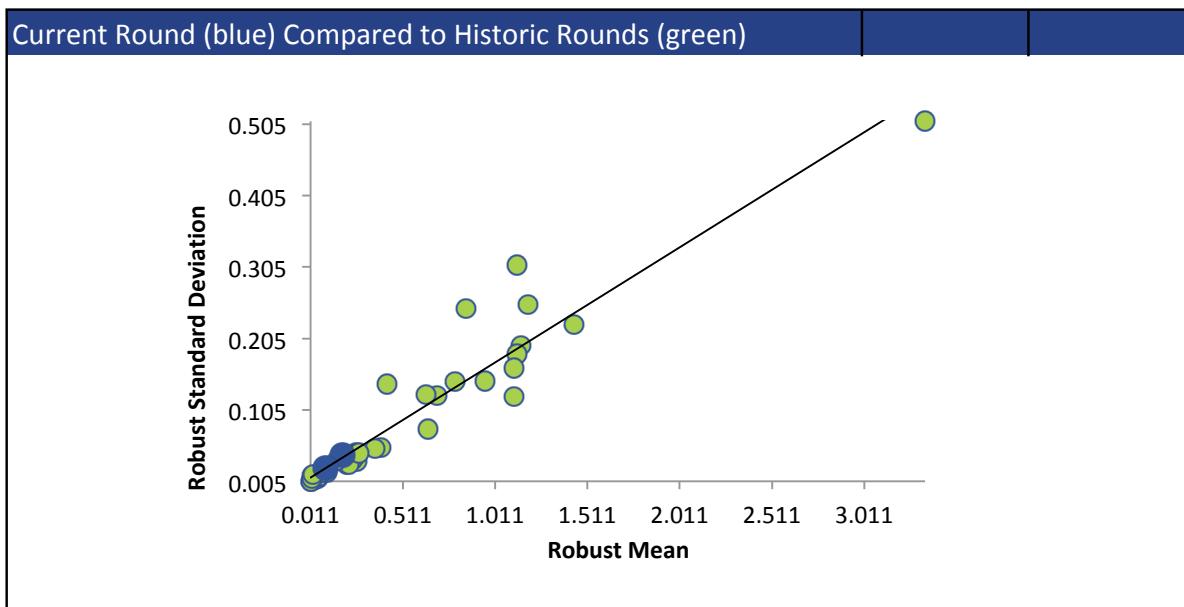
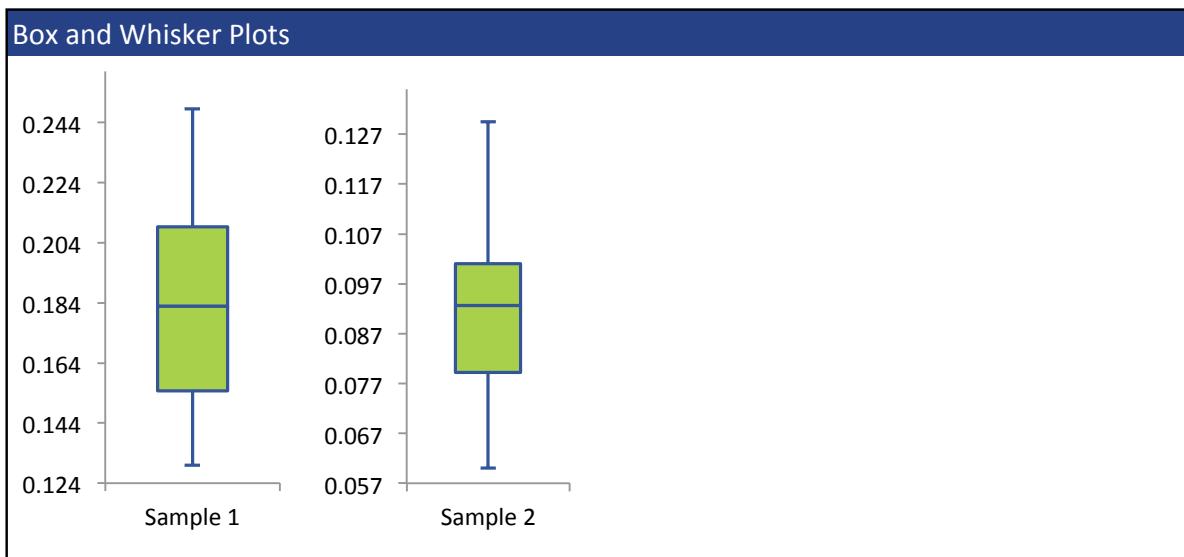
### CHROMIUM



## Annex A Summary by Analyte

### CHROMIUM

	Stability Assessment	Homogeneity Assessment
Sample 4		<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>



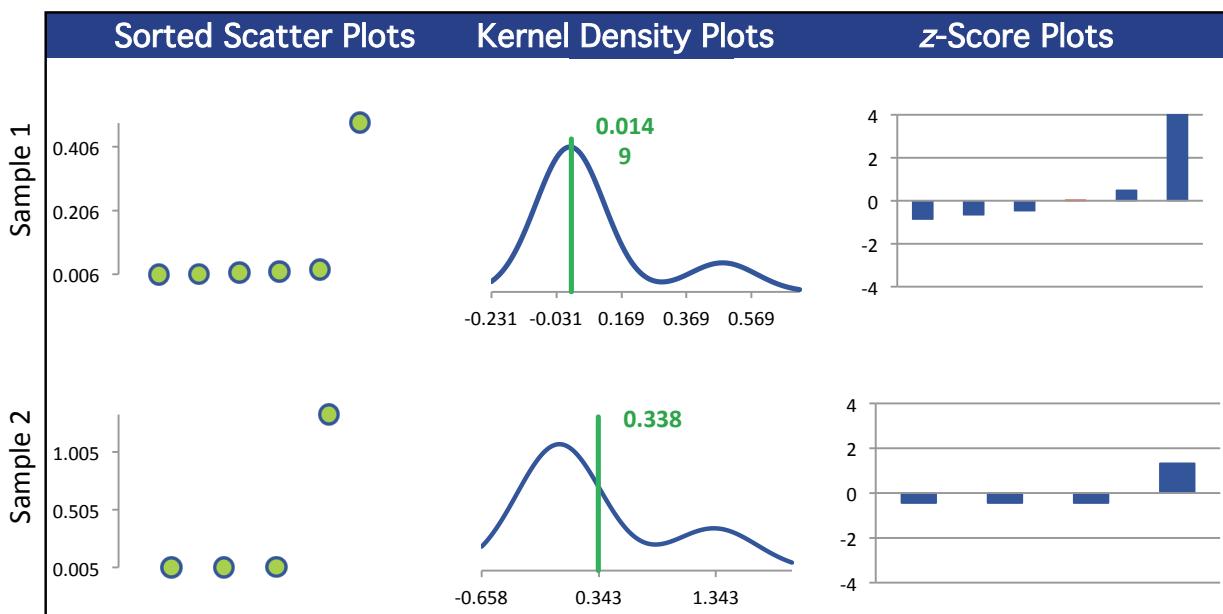
## CYANIDE (WAD)

Statistic	Excluded		Excluded	
	C39-1	C39-2	C39-3	C39-4
N	6	4	0	0
Median mg/L	0.0125	0.00800		
Robust Mean mg/L	0.0149	0.338		
U mg/L	0.00531	0.469		
Robust Standard Deviation mg/L	0.0104	0.750		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0104	0.750		
Outliers	0	0	0	0
$ z  > 3.0$	1	0	0	0
$2 <  z  < 3$	0	0	0	0

## Methods Used

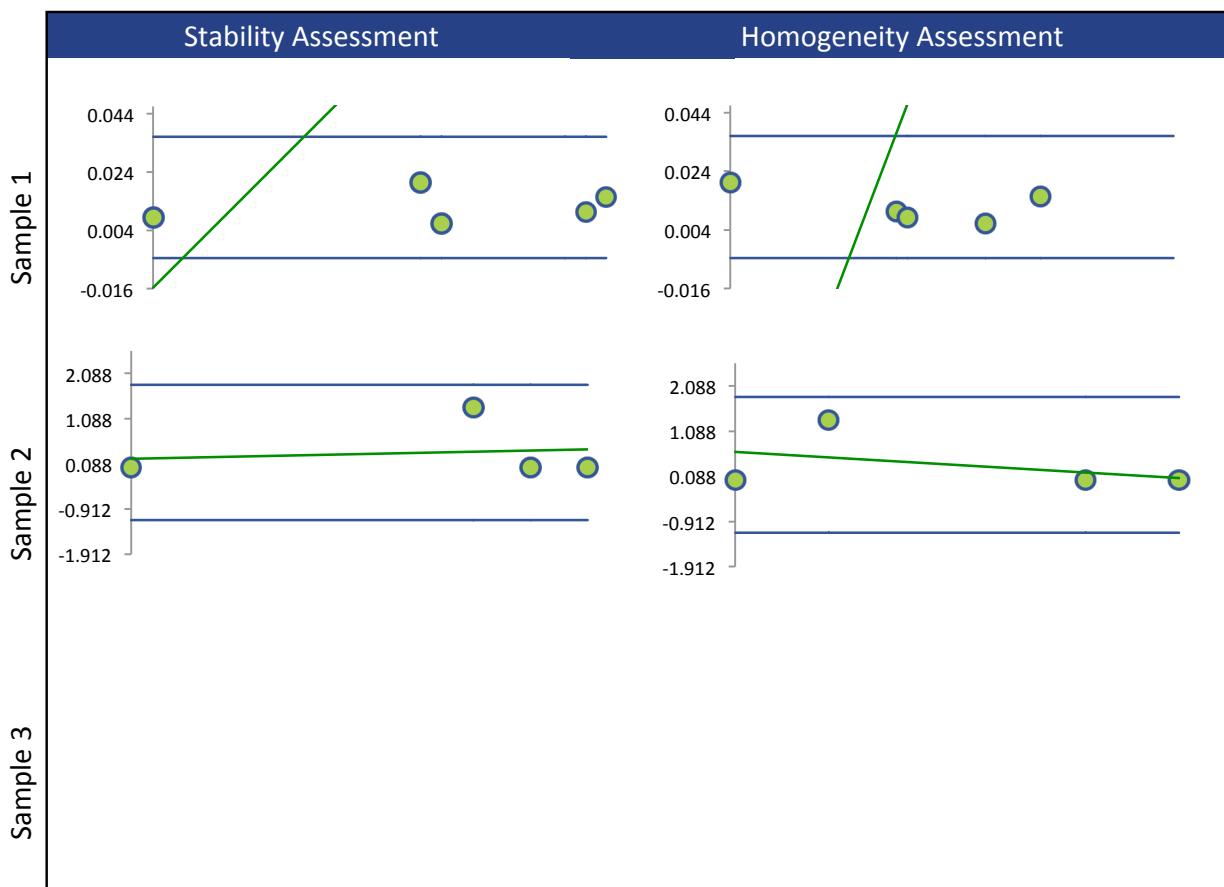
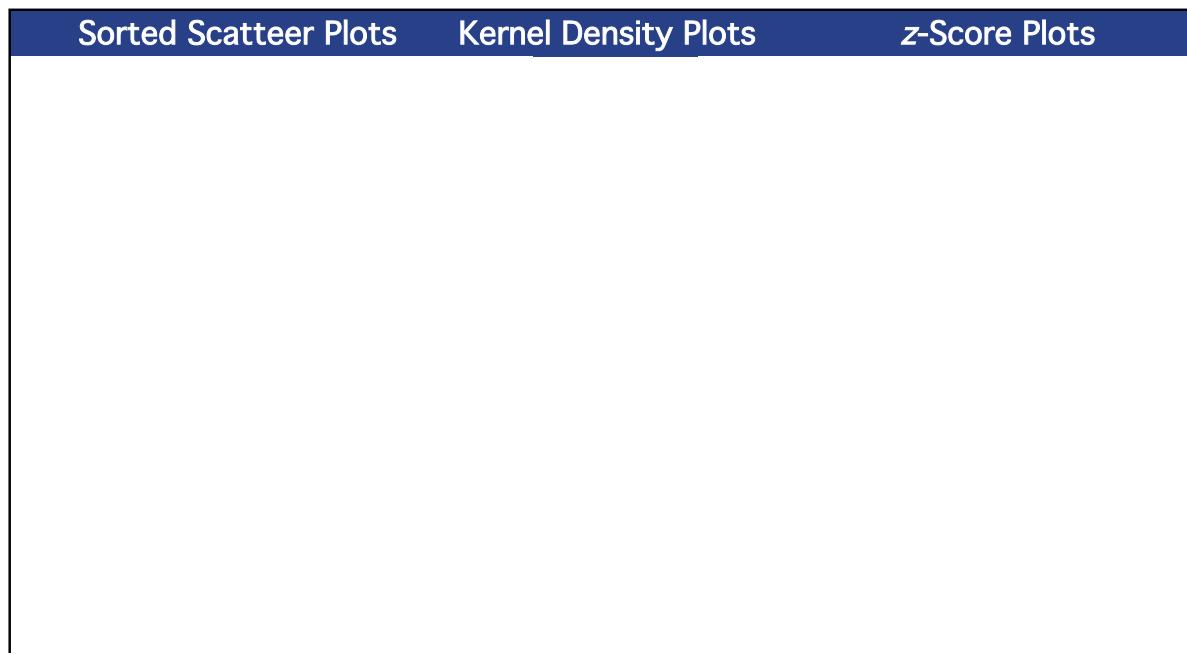
Method	C39-1	C39-2	C39-3	C39-4
AUTO COLOR (Blue)	2	1	0	0
COLORIMETRIC (Red)	3	2	0	0
SELECTIVE ION ELECTRODE (Green)	1	1	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



## Annex A Summary by Analyte

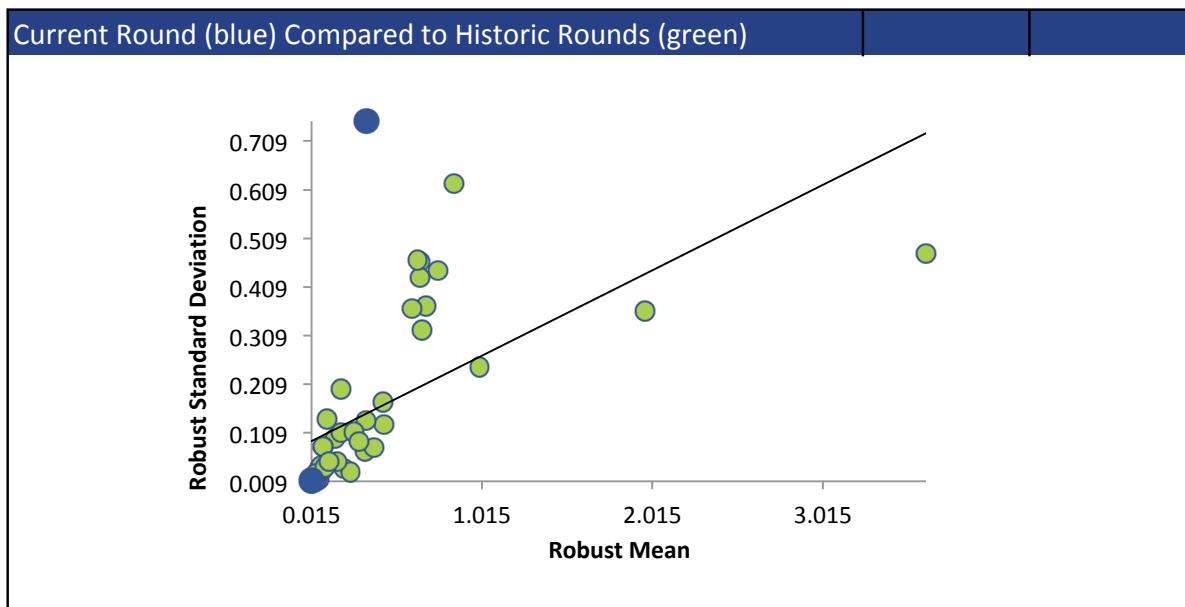
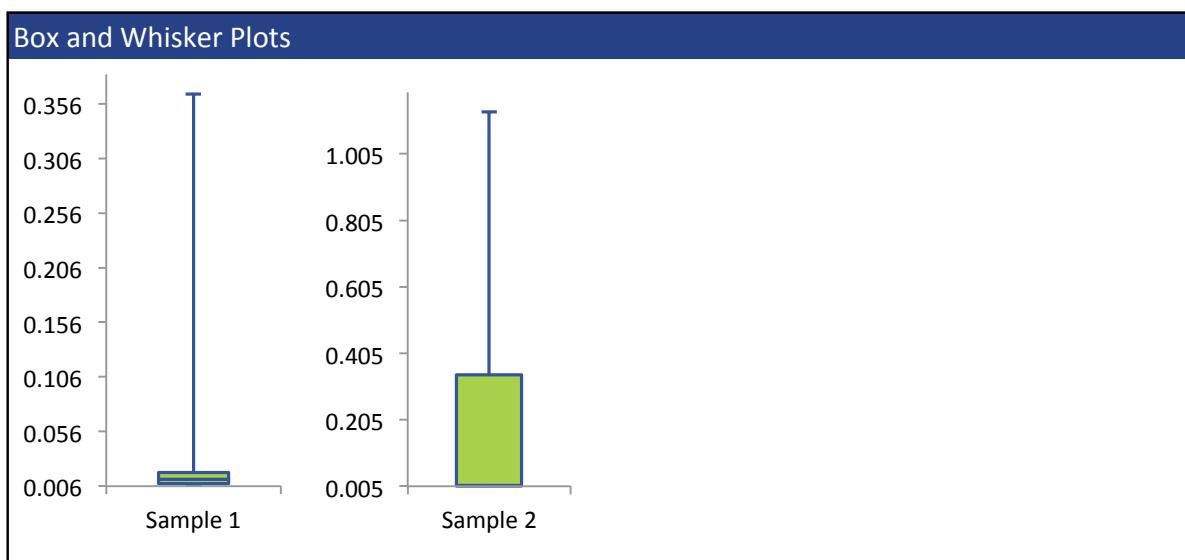
### CYANIDE (WAD)



## Annex A Summary by Analyte

## CYANIDE (WAD)

	Stability Assessment	Homogeneity Assessment
Sample 4		
Stability	Stability assessments are regression analysis of reported result against date of analysis.	
Homogeneity		Homogeneity assessments are regression analysis of reported result against bottling order.



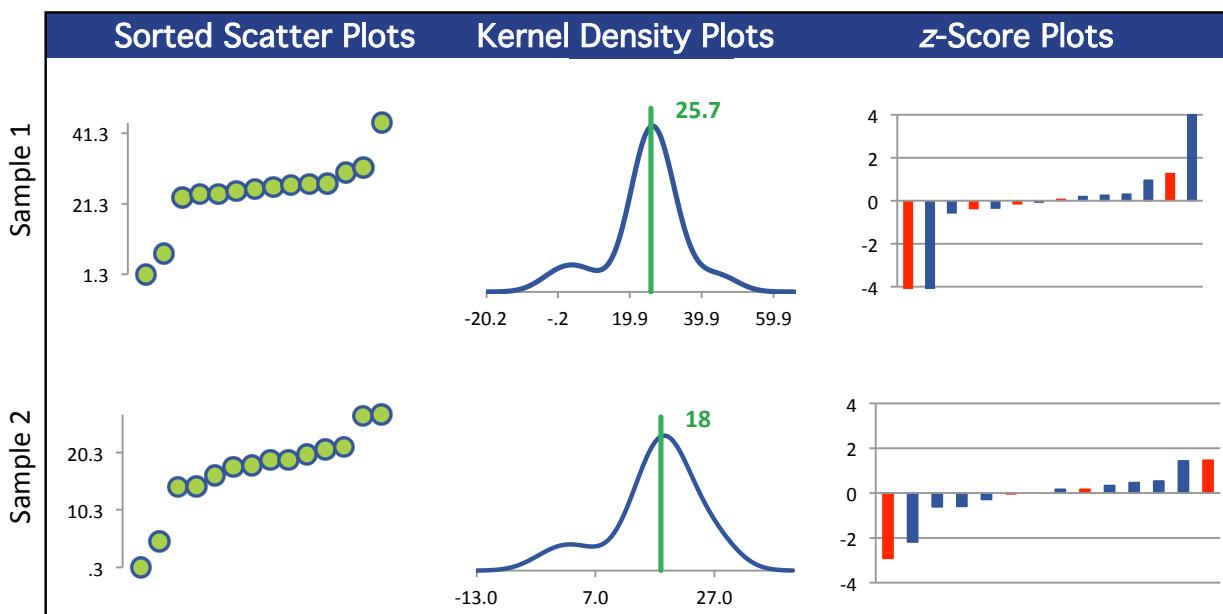
**FLUORIDE****Summary Statistics**

Statistic	C39-1	C39-2	C39-3	C39-4
N	14	14	0	0
Median mg/L	25.7	18.5		
Robust Mean mg/L	25.7	18.0		
U mg/L	1.52	2.03		
Robust Standard Deviation mg/L	4.56	6.09		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	4.56	6.09		
Outliers	0	0	0	0
$ z  > 3.0$	3	0	0	0
$2 <  z  < 3$	0	2	0	0

**Methods Used**

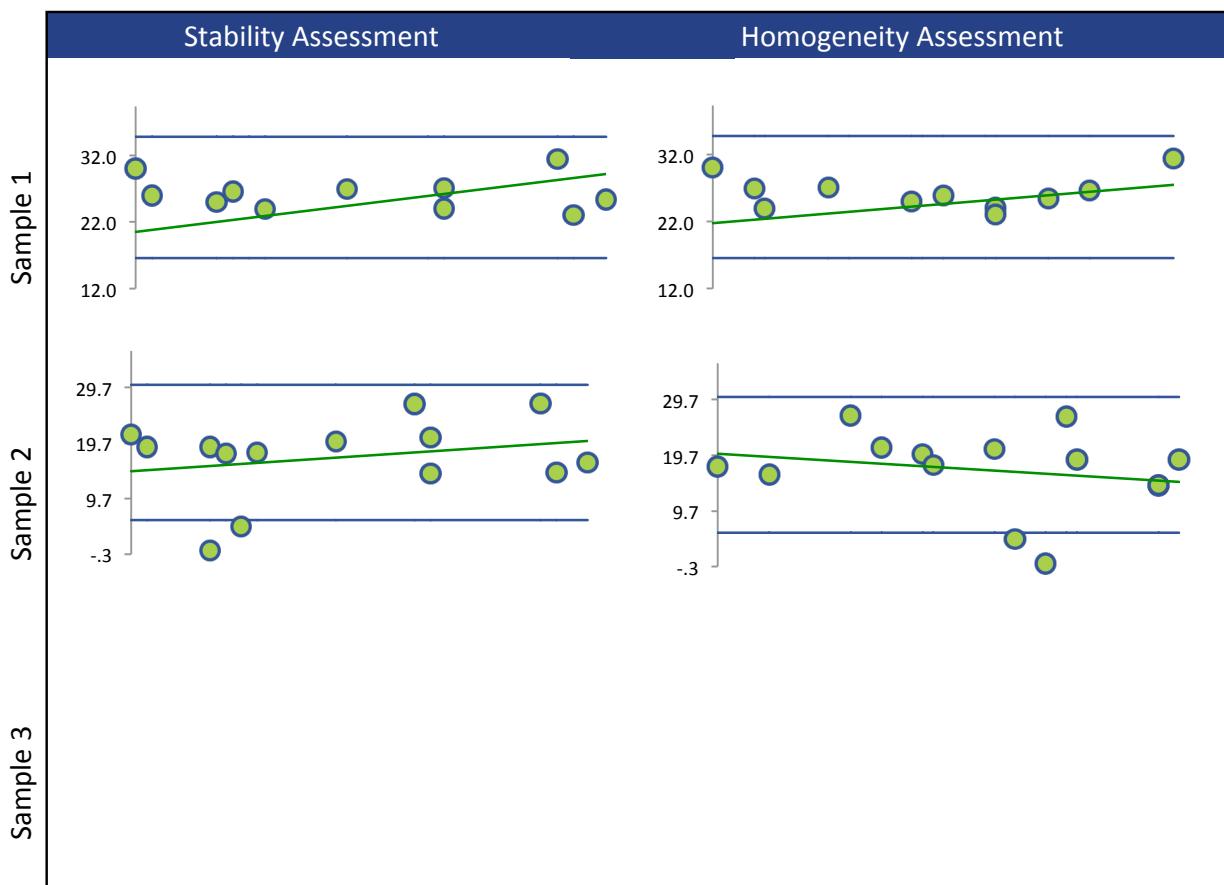
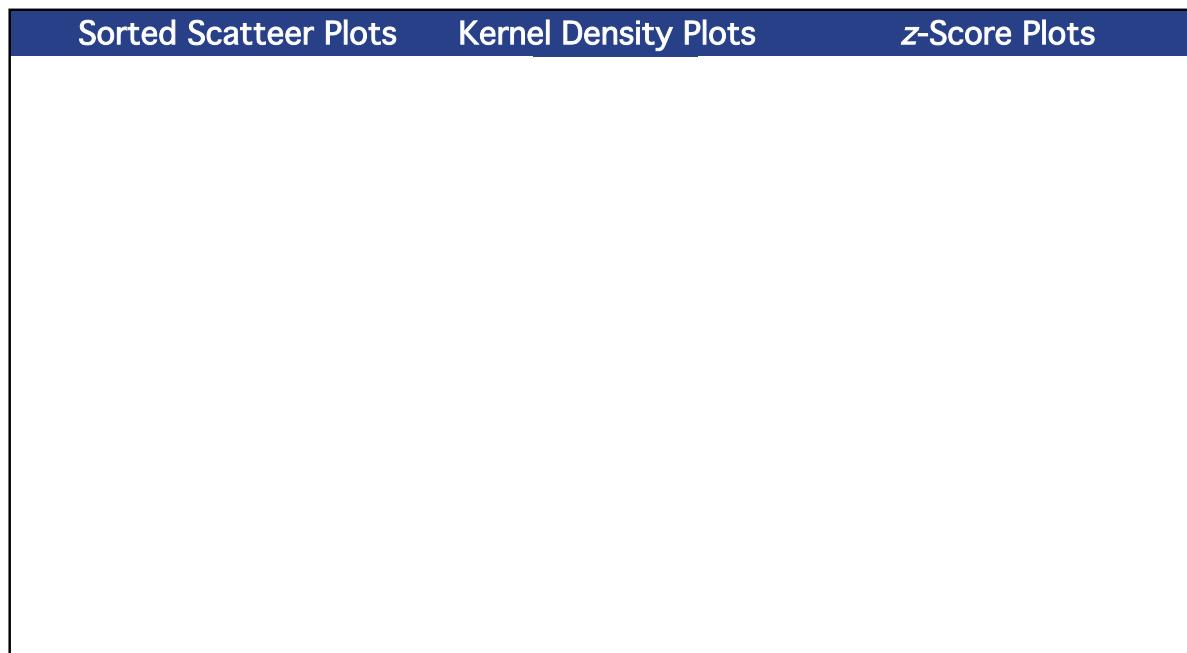
Method	C39-1	C39-2	C39-3	C39-4
COLORIMETRIC (Blue)	4	4	0	0
TITRIMETRIC (Red)	2	2	0	0
SELECTIVE ION ELECTRODE (Green)	5	5	0	0
ION CHROMATOGRAPHY (Orange)	3	3	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



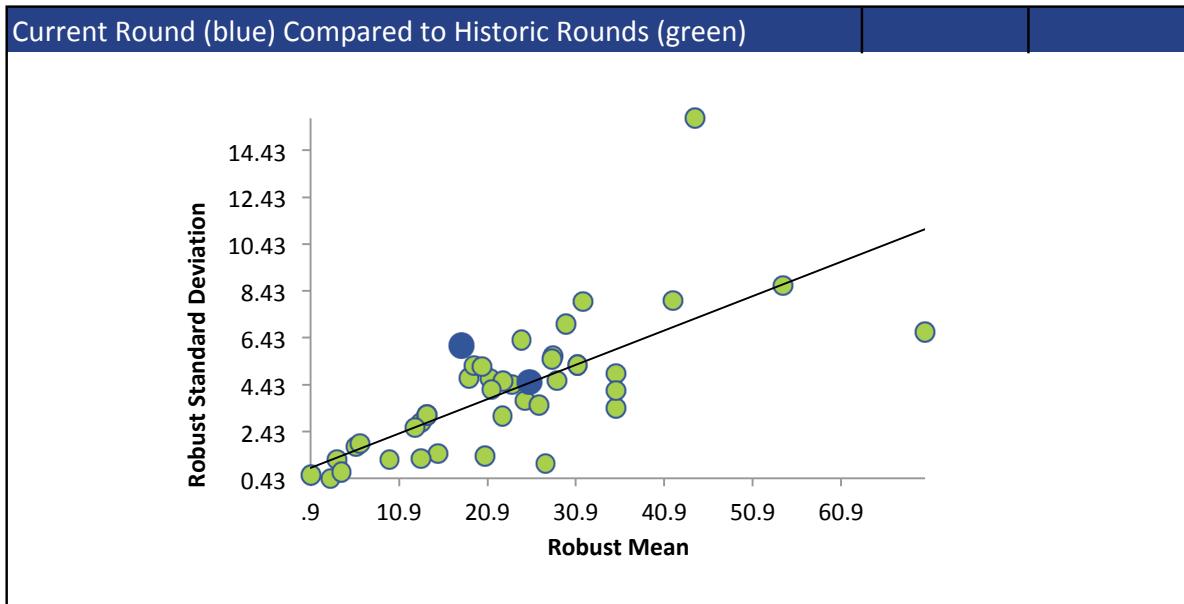
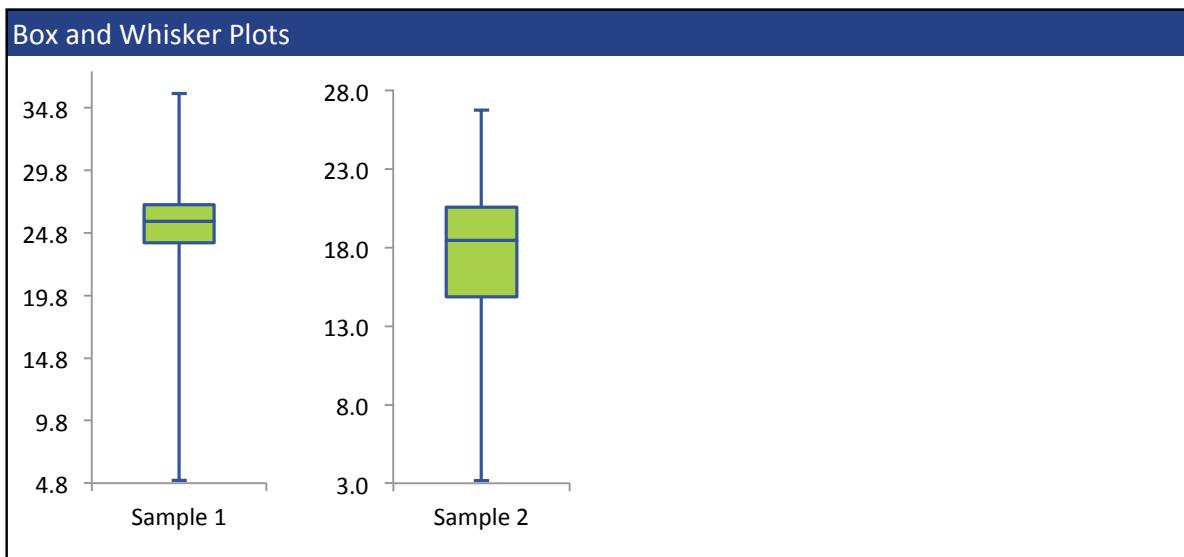
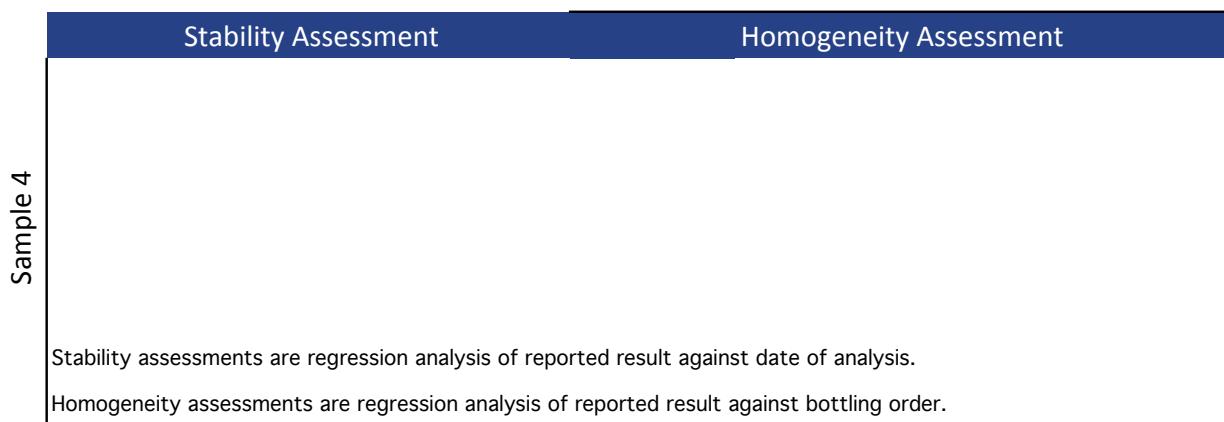
## Annex A Summary by Analyte

### FLUORIDE



## Annex A Summary by Analyte

### FLUORIDE



## LEAD

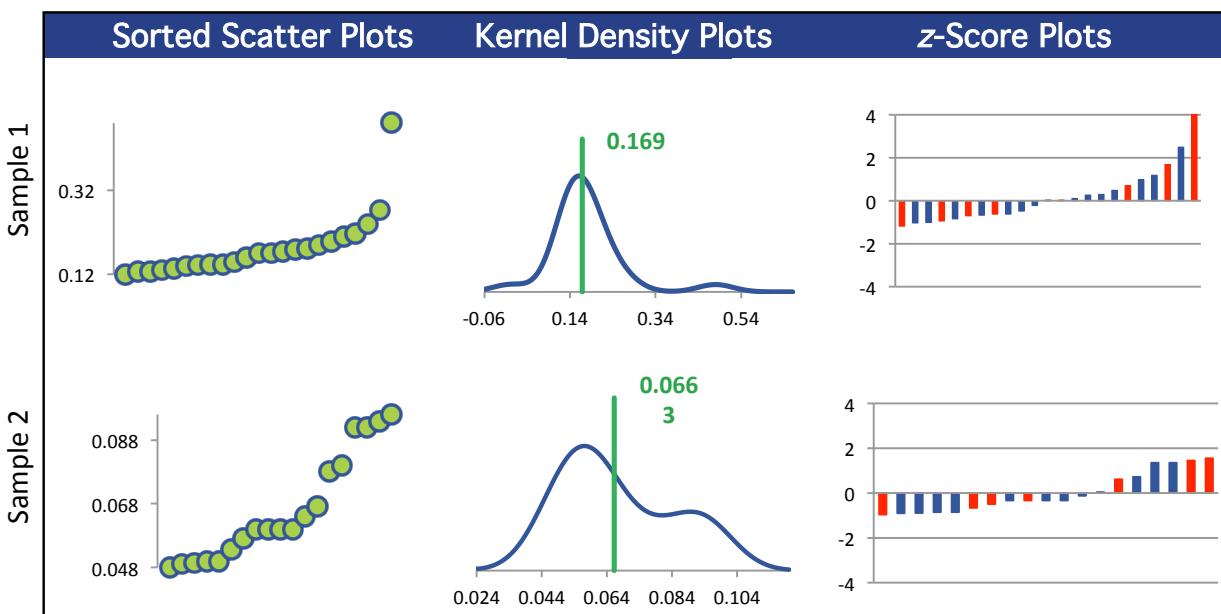
## Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	23	19	0	0
Median mg/L	0.170	0.0600		
Robust Mean mg/L	0.169	0.0663		
U mg/L	0.0109	0.00548		
Robust Standard Deviation mg/L	0.0417	0.0191		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0417	0.0191		
Outliers	0	0	0	0
$ z  > 3.0$	1	0	0	0
$2 <  z  < 3$	1	0	0	0

## Methods Used

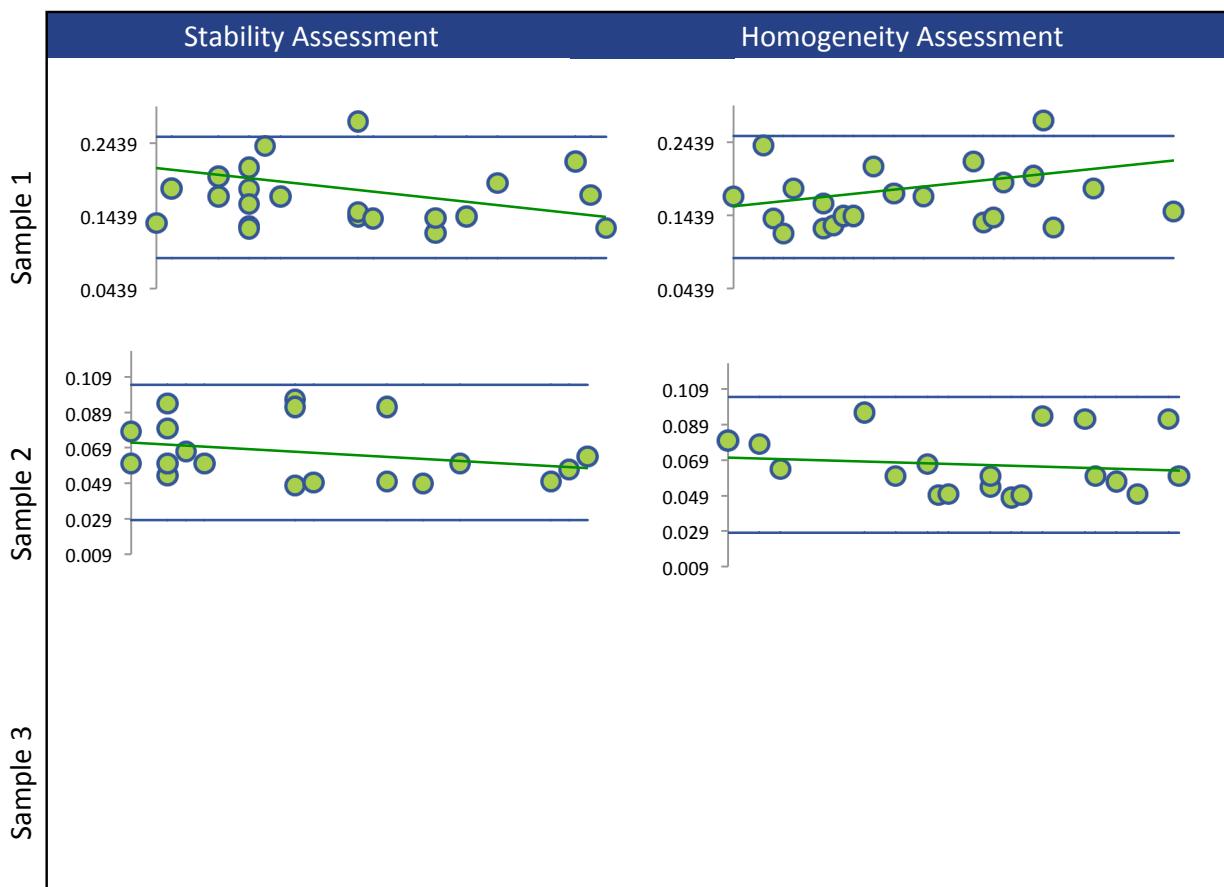
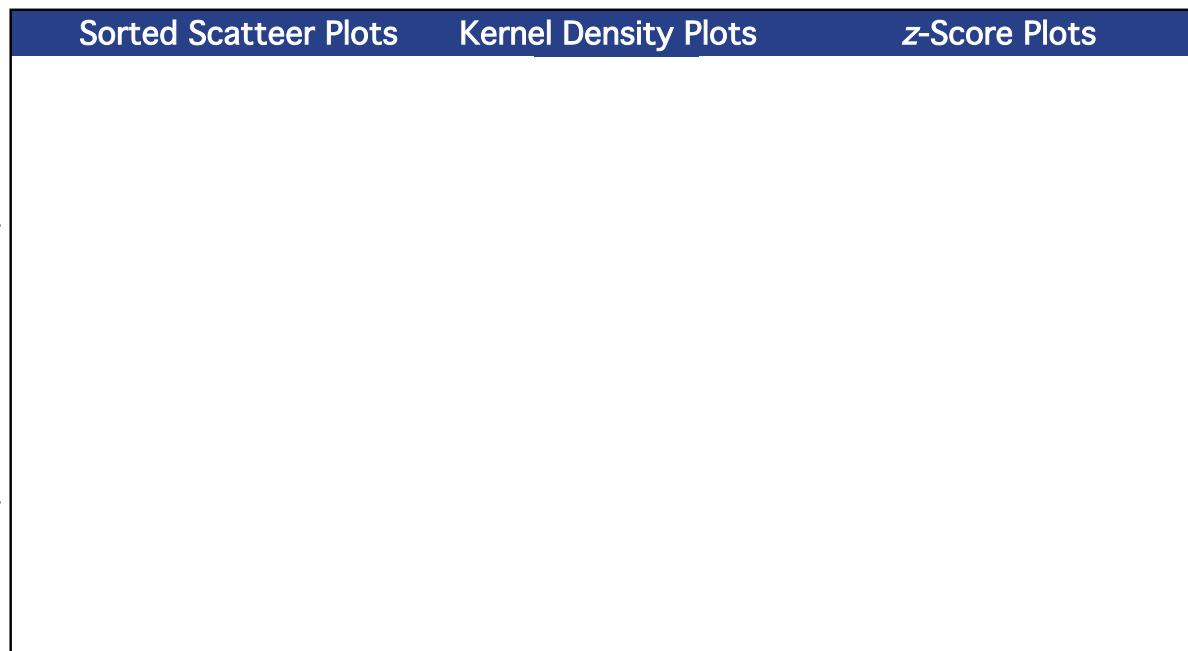
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	17	15	0	0
ICP/OES (Red)	5	4	0	0
AA FLAME (Green)	1	0	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



## Annex A Summary by Analyte

### LEAD



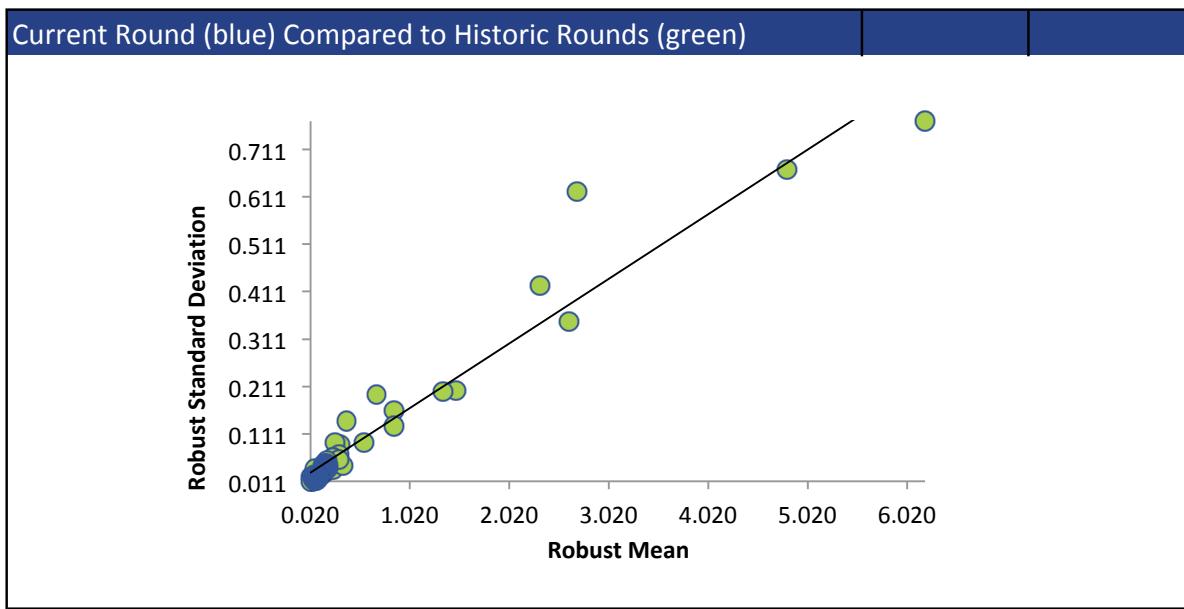
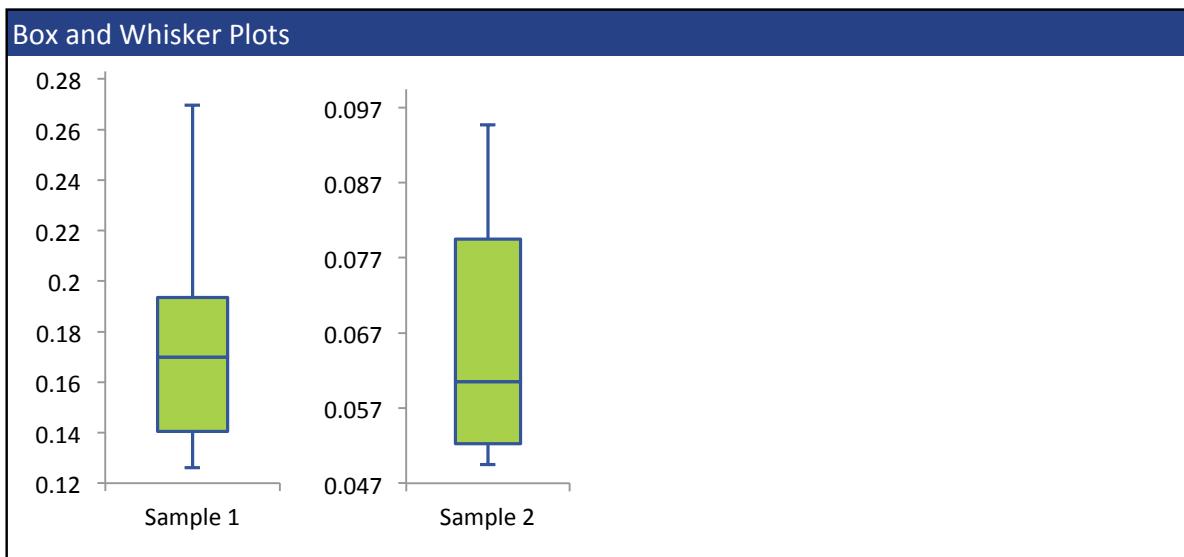
## Annex A Summary by Analyte

### LEAD

	Stability Assessment	Homogeneity Assessment
Sample 4		

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

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



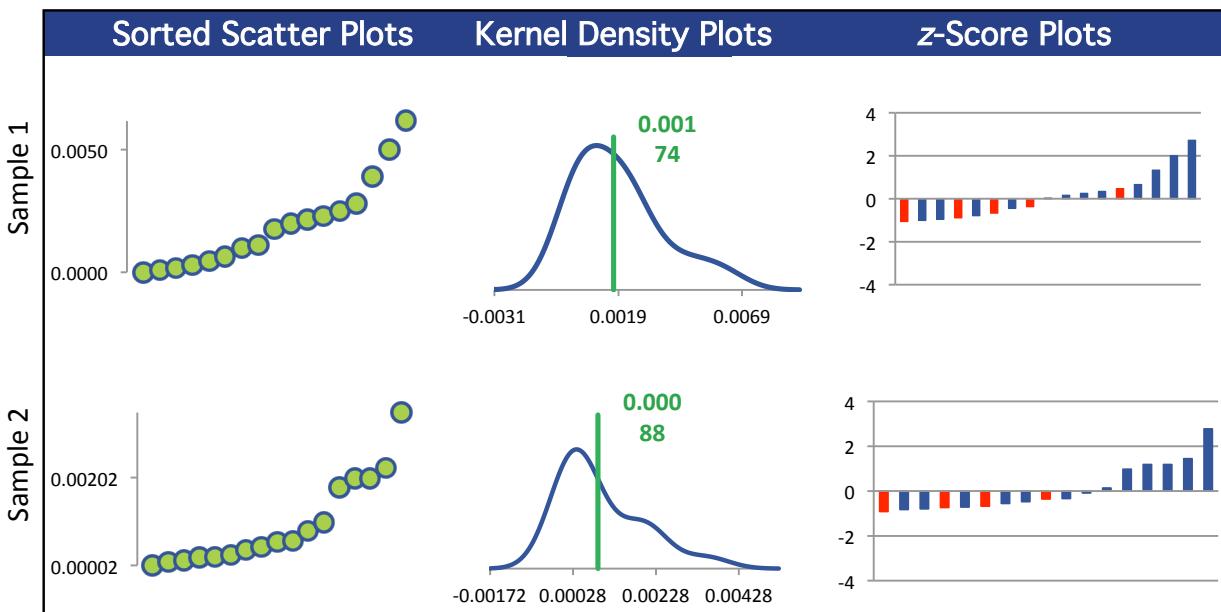
**MERCURY****Summary Statistics**

Statistic	C39-1	C39-2	C39-3	C39-4
N	17	17	0	0
Median mg/L	0.00177	0.000549		
Robust Mean mg/L	0.00174	0.000880		
U mg/L	0.000494	0.000287		
Robust Standard Deviation mg/L	0.00163	0.000946		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.00163	0.000946		
Outliers	0	0	0	0
$ z  > 3.0$	0	0	0	0
$2 <  z  < 3$	1	1	0	0

**Methods Used**

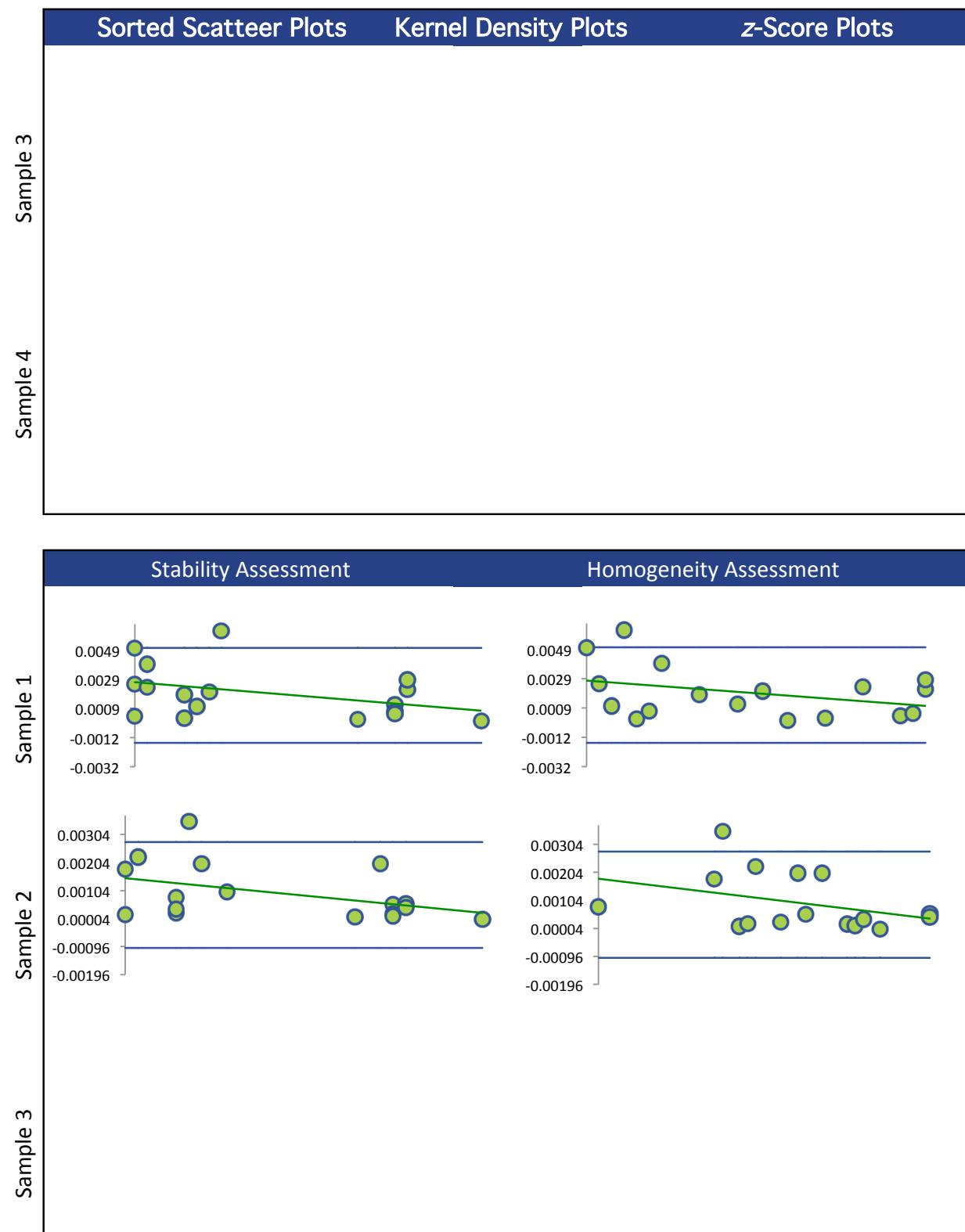
Method	C39-1	C39-2	C39-3	C39-4
COLD VAPOUR AA (Blue)	9	8	0	0
DYNAMIC FLUORESCENCE SPECTROPHOTOMETRY (Red)	2	2	0	0
ICP/MS (Green)	5	6	0	0
ICP/OES (Orange)	1	1	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



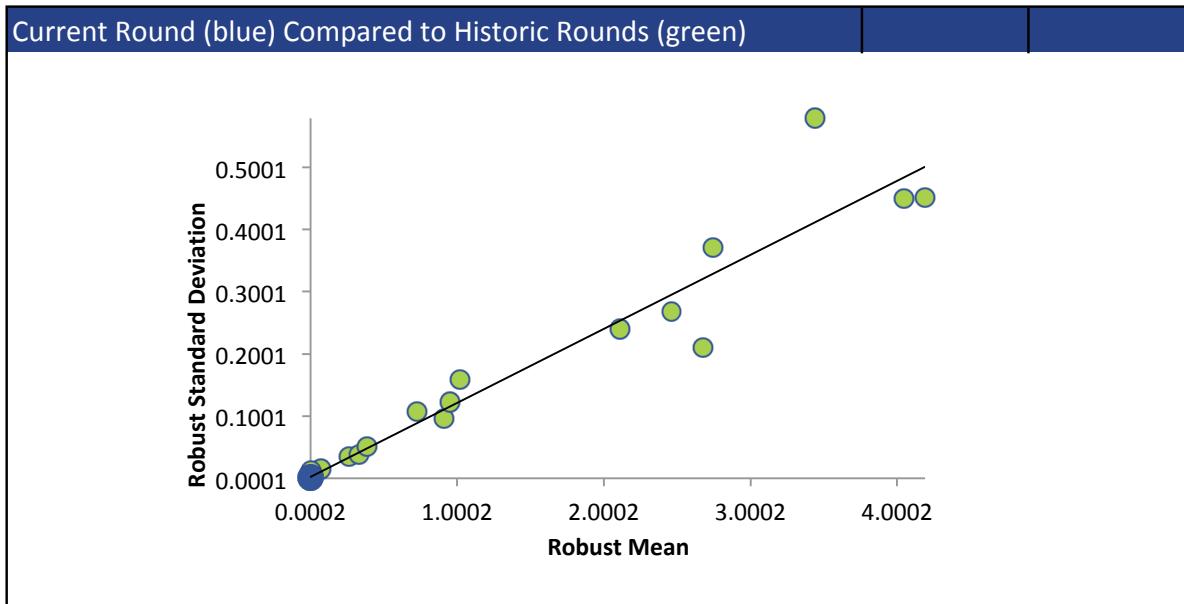
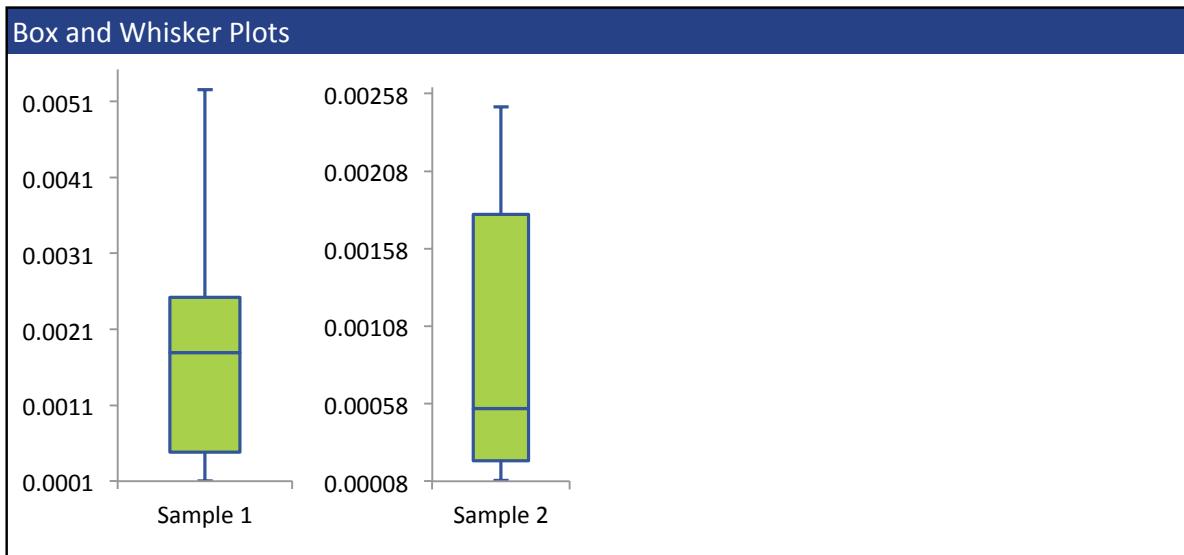
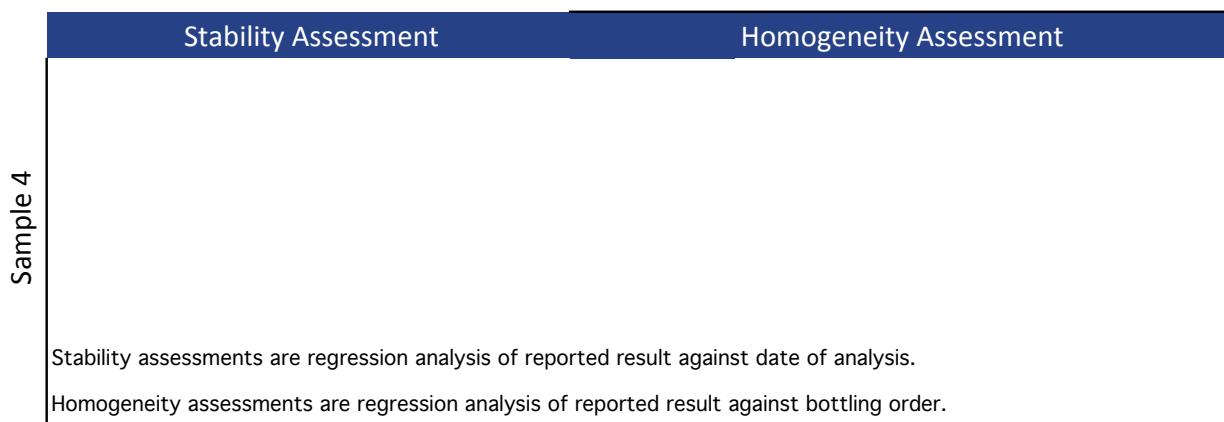
## Annex A Summary by Analyte

### MERCURY



## Annex A Summary by Analyte

### MERCURY



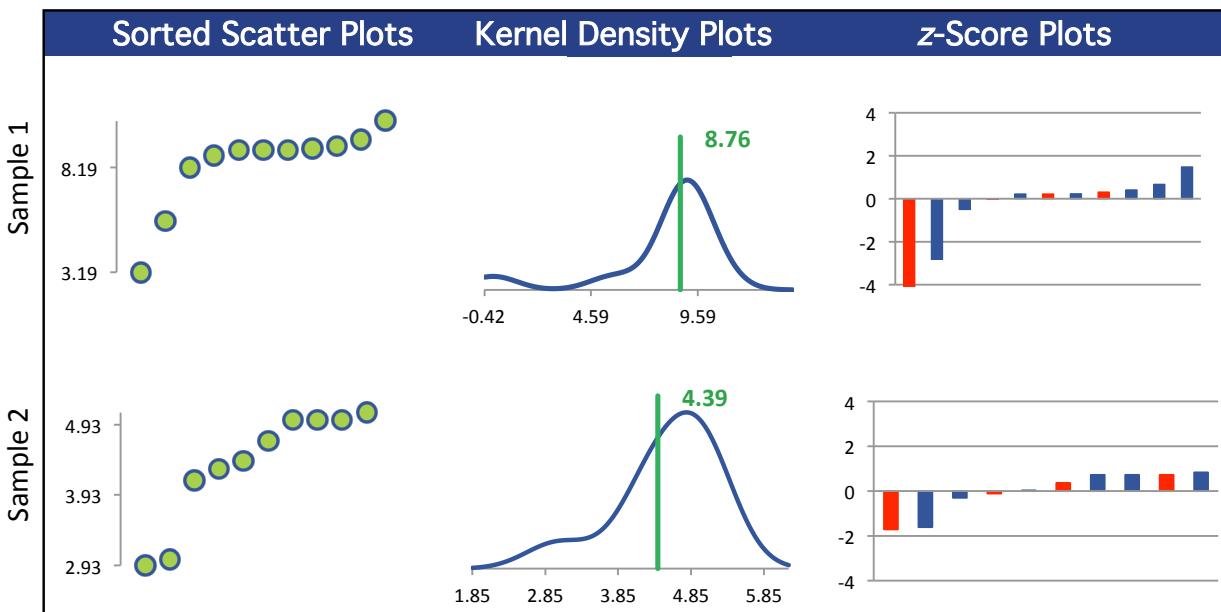
**NITRATE****Summary Statistics**

Statistic	C39-1	C39-2	C39-3	C39-4
N	11	10	0	0
Median mg/L	9.00	4.56		
Robust Mean mg/L	8.76	4.39		
U mg/L	0.418	0.337		
Robust Standard Deviation mg/L	1.11	0.853		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	1.11	0.853		
Outliers	0	0	0	0
$ z  > 3.0$	1	0	0	0
$2 <  z  < 3$	1	0	0	0

**Methods Used**

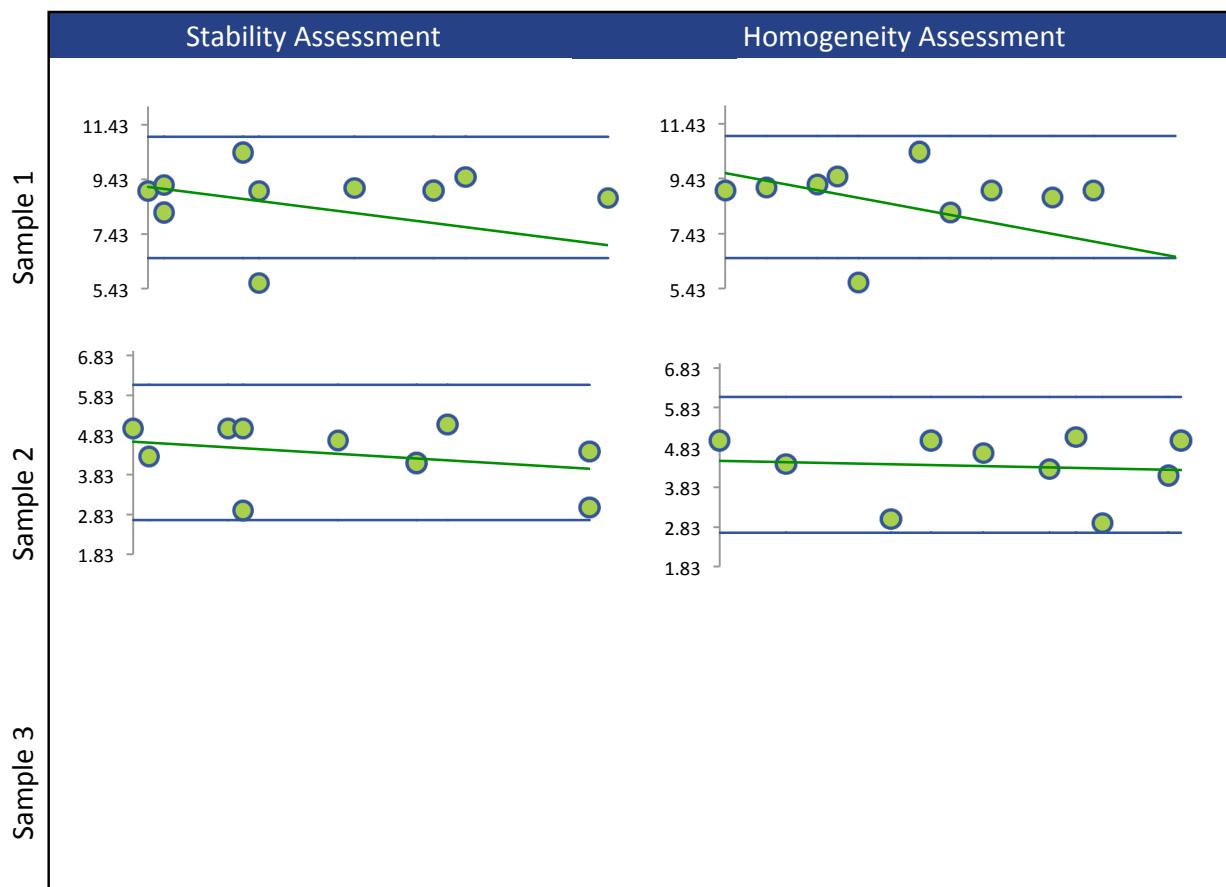
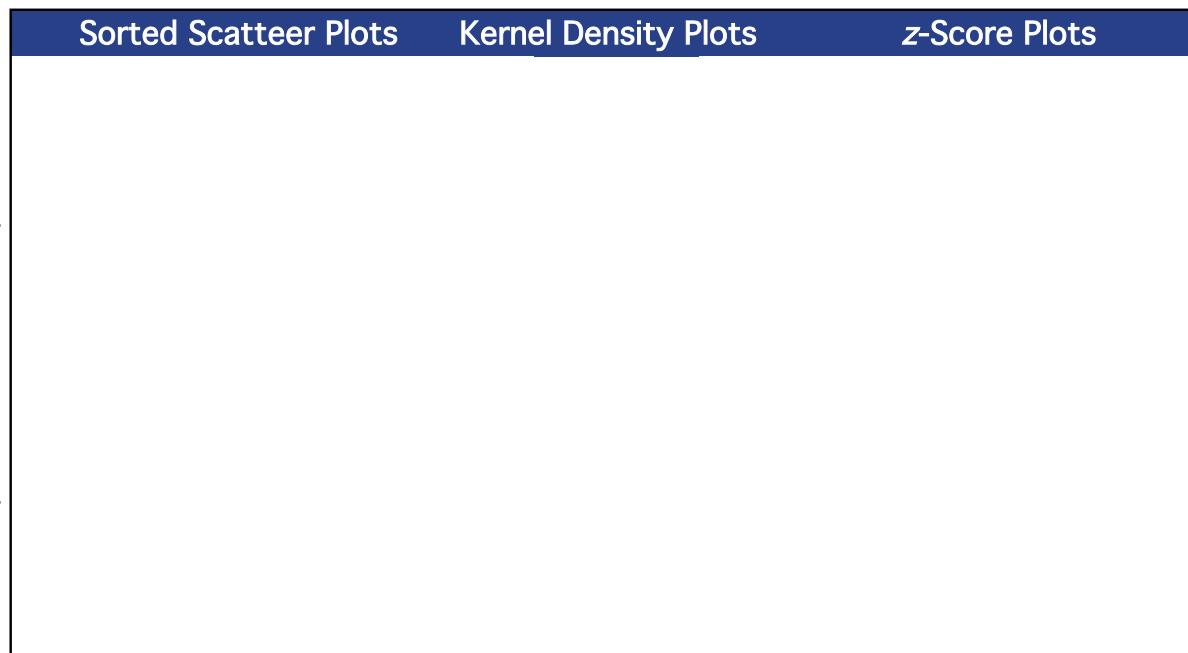
Method	C39-1	C39-2	C39-3	C39-4
COLORIMETRIC (Blue)	3	3	0	0
ION CHROMATOGRAPHY (Red)	7	6	0	0
AUTO COLOR (Green)	1	1	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



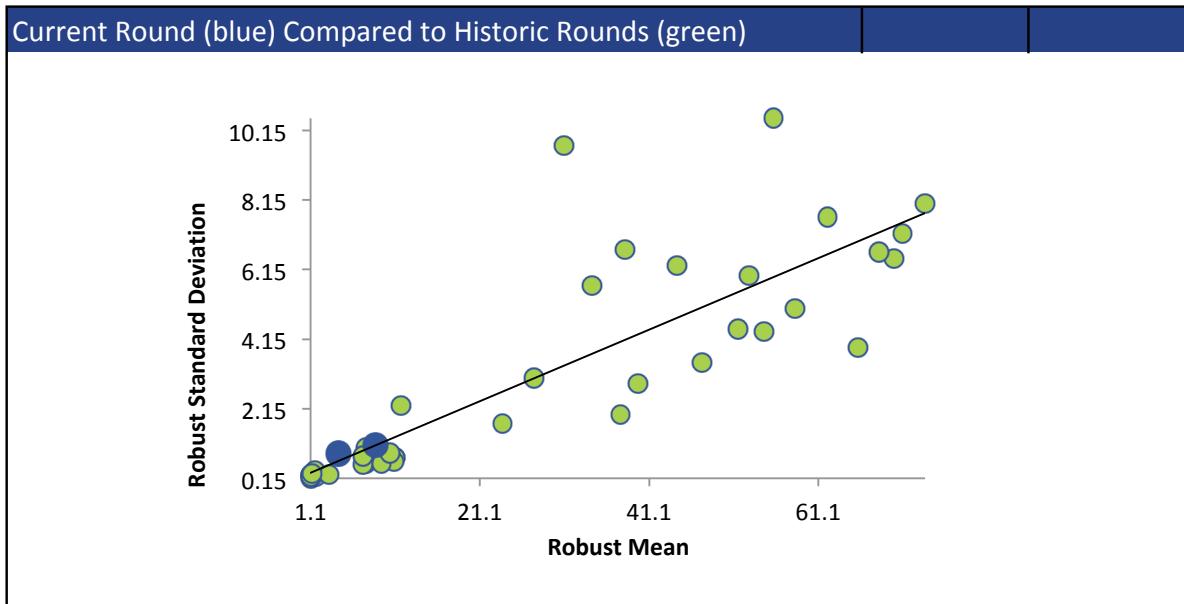
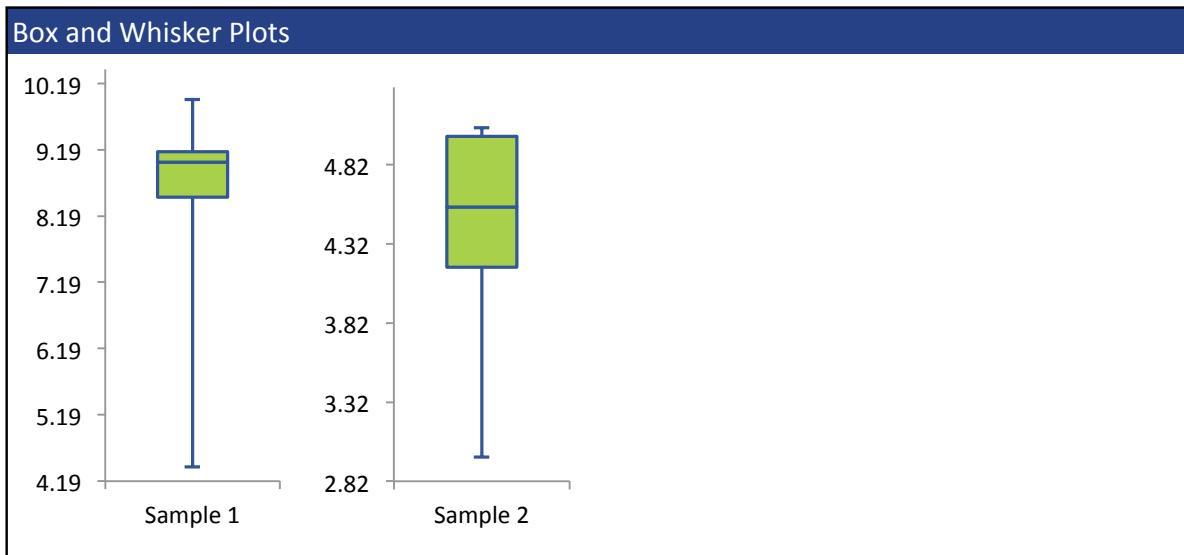
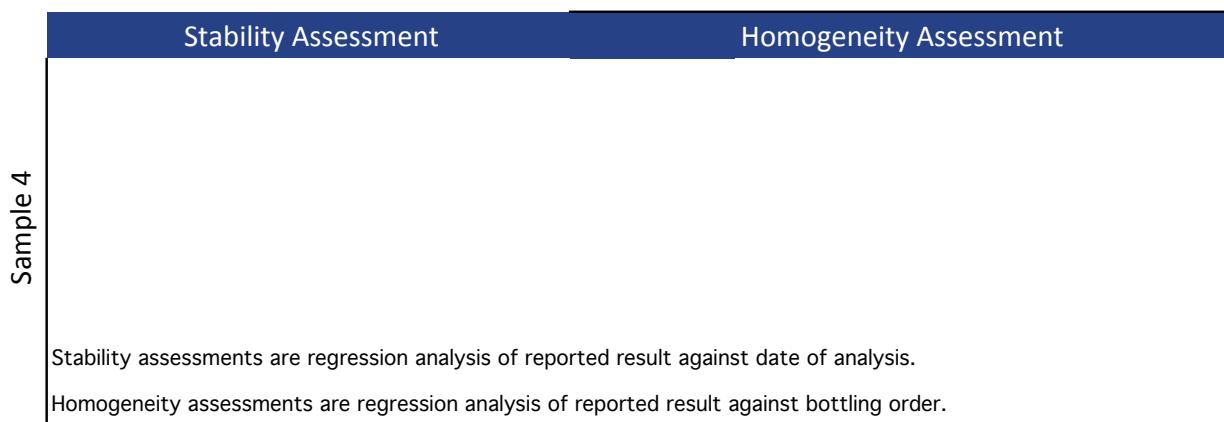
## Annex A Summary by Analyte

### NITRATE



## Annex A Summary by Analyte

### NITRATE



## NITRATE PLUS NITRITE

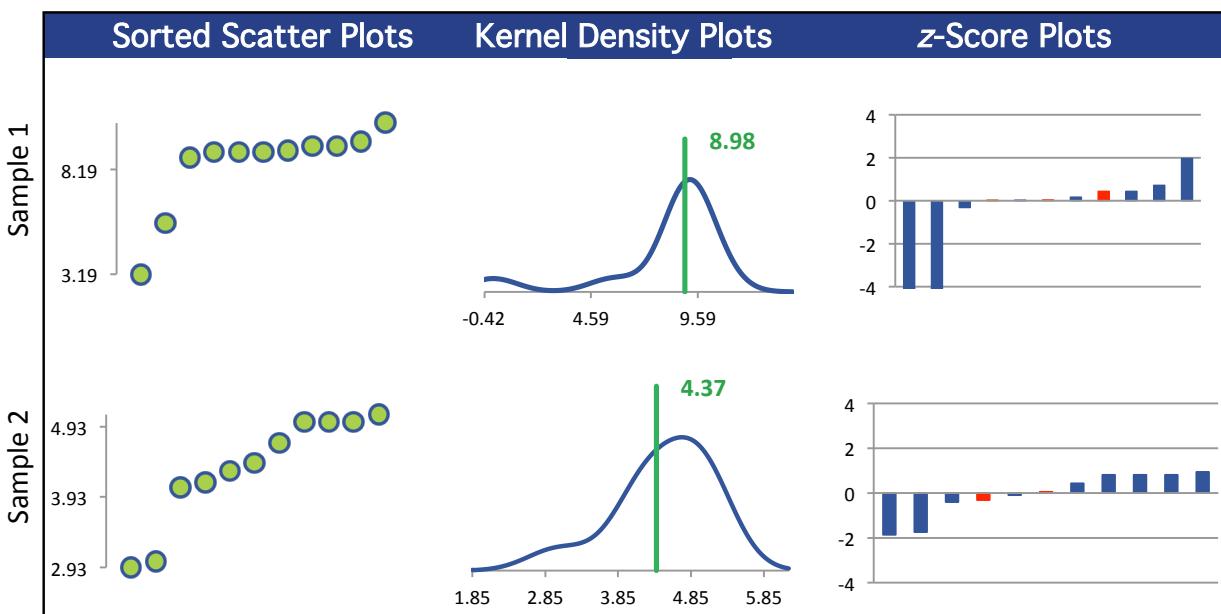
### Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	11	11	0	0
Median mg/L	9.01	4.41		
Robust Mean mg/L	8.98	4.37		
U mg/L	0.272	0.292		
Robust Standard Deviation mg/L	0.721	0.775		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.721	0.775		
Outliers	0	0	0	0
$ z  > 3.0$	2	0	0	0
$2 <  z  < 3$	0	0	0	0

### Methods Used

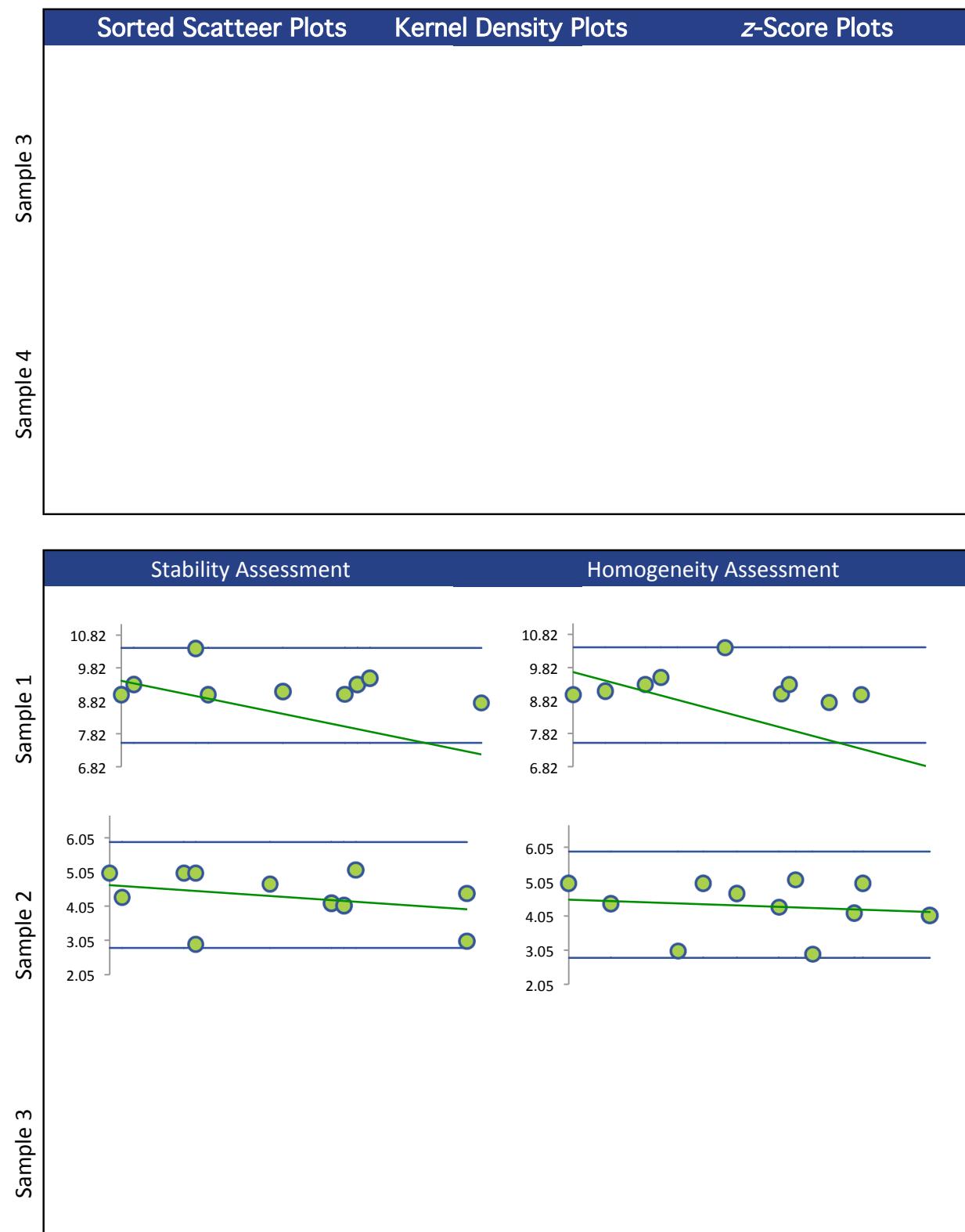
Method	C39-1	C39-2	C39-3	C39-4
COLORIMETRIC (Blue)	3	3	0	0
ION CHROMATOGRAPHY (Red)	6	6	0	0
AUTO COLOR (Green)	2	2	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers

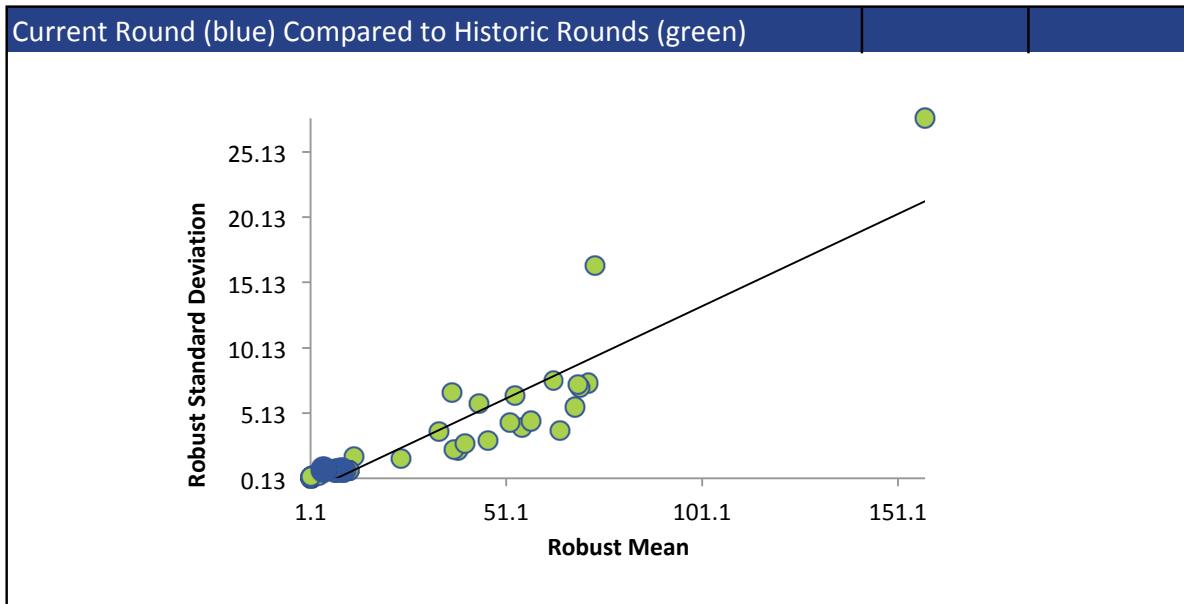
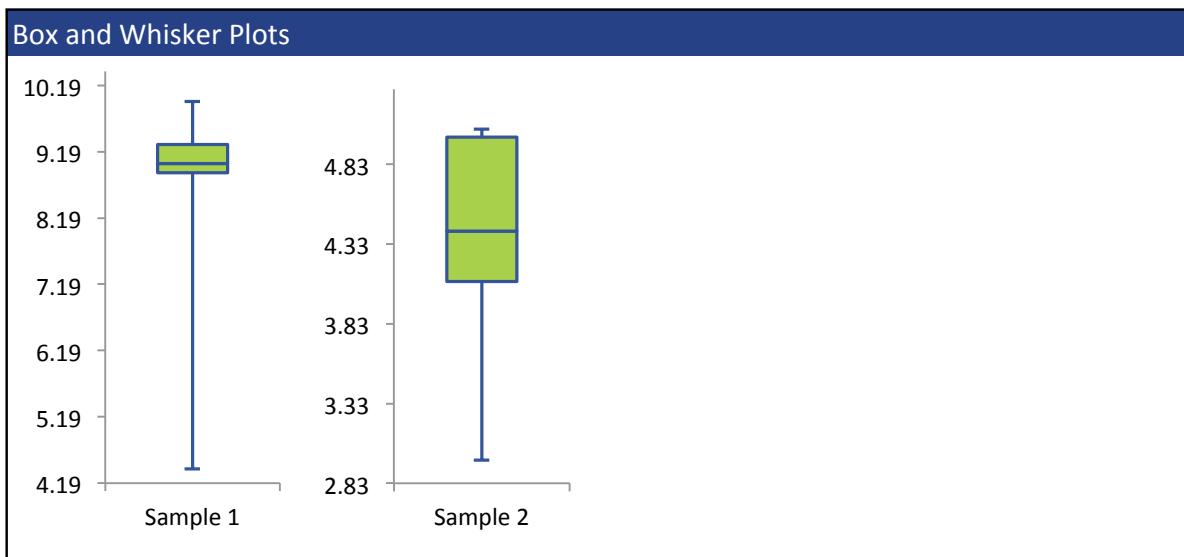
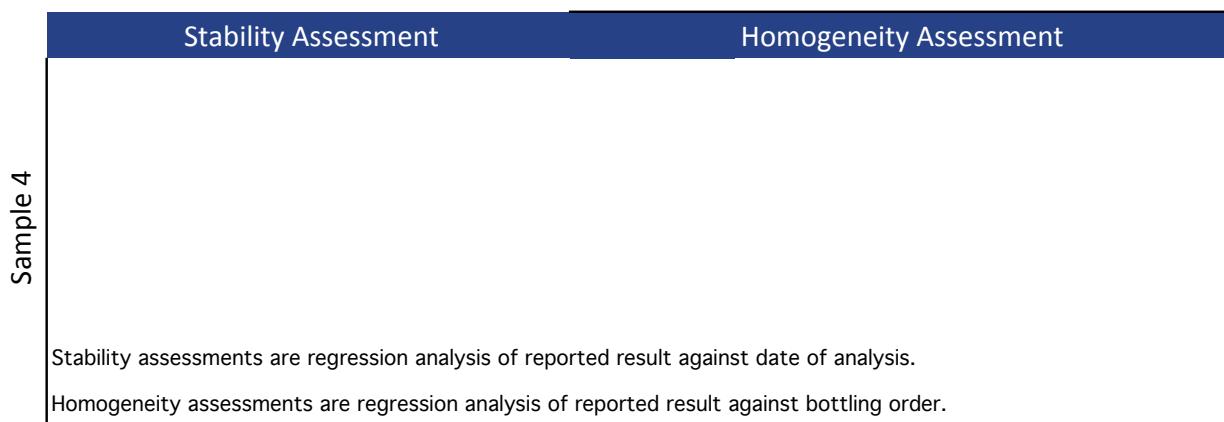


## Annex A Summary by Analyte

### NITRATE PLUS NITRITE



## NITRATE PLUS NITRITE



## SELENIUM

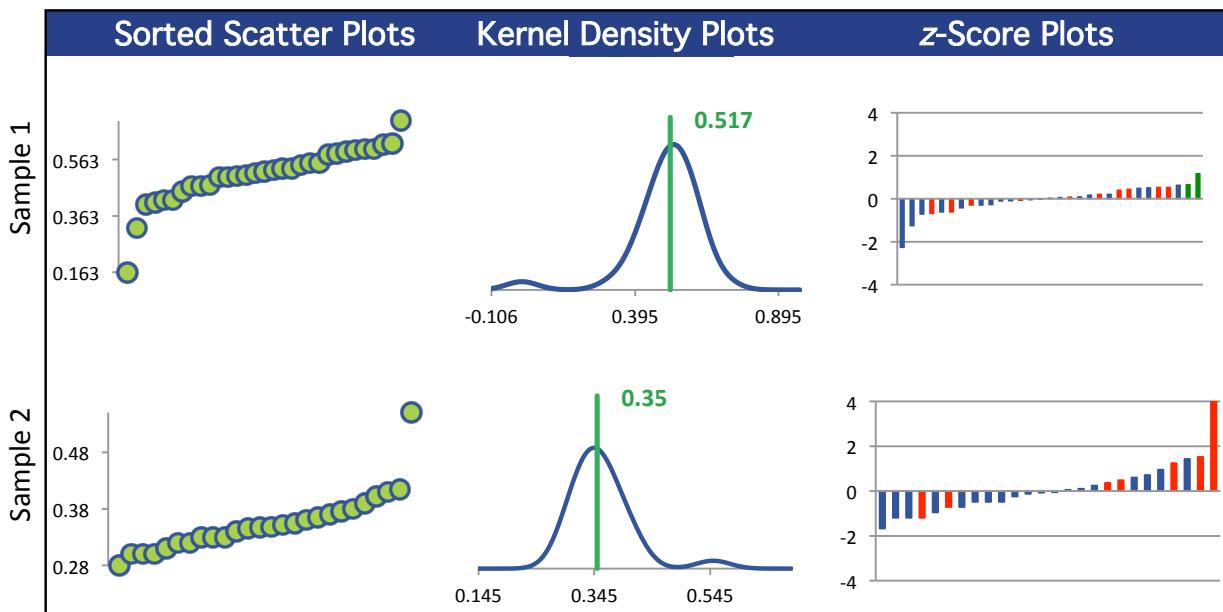
### Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	31	26	0	0
Median mg/L	0.519	0.348		
Robust Mean mg/L	0.517	0.350		
U mg/L	0.0185	0.0103		
Robust Standard Deviation mg/L	0.0826	0.0420		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag	Homogeneity			
Standard Deviation Used (SDPA) mg/L	0.156	0.0420		
Outliers	0	0	0	0
$ z  > 3.0$	0	1	0	0
$2 <  z  < 3$	1	0	0	0

### Methods Used

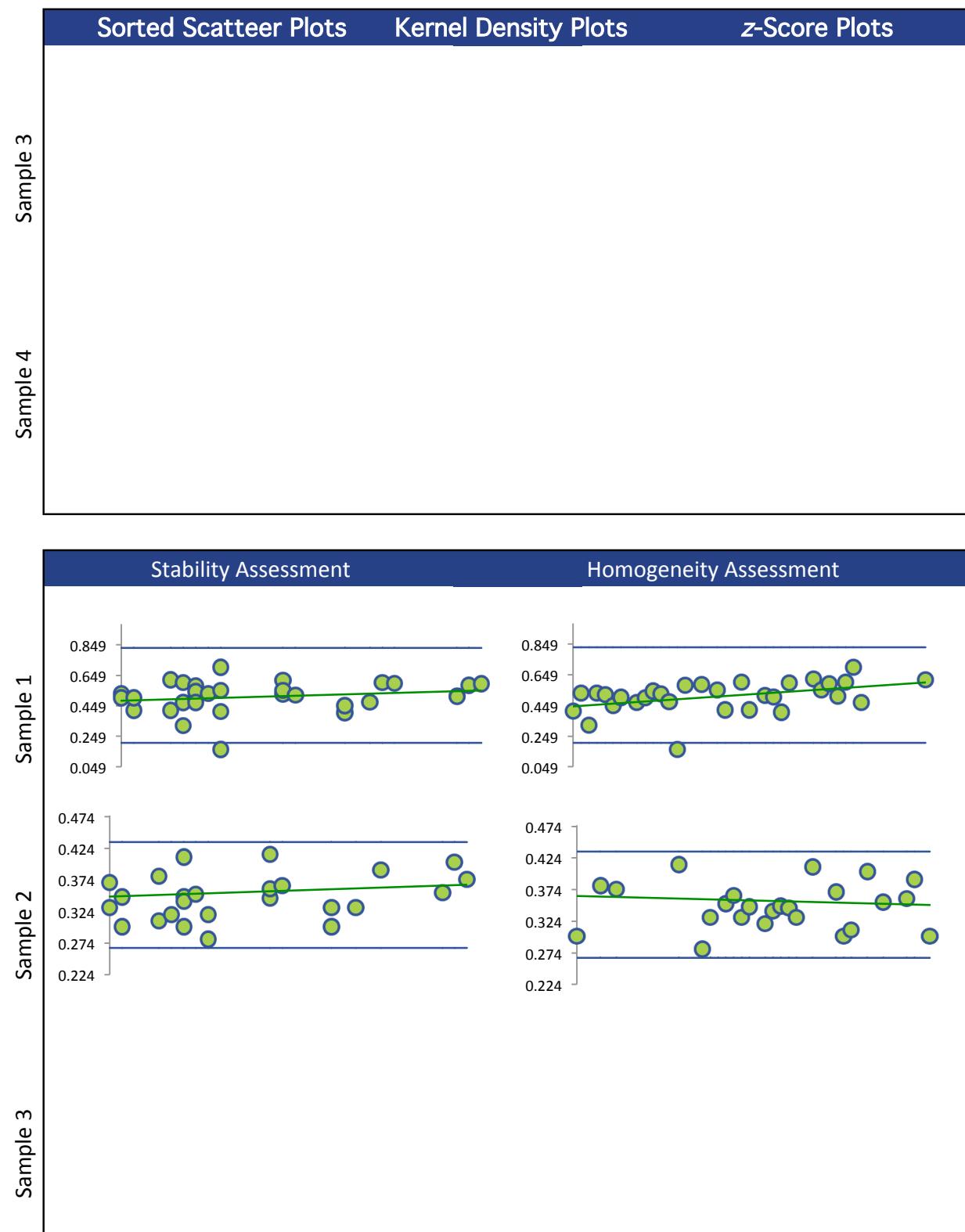
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	23	22	0	0
ICP/OES (Red)	8	4	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



## Annex A Summary by Analyte

### SELENIUM

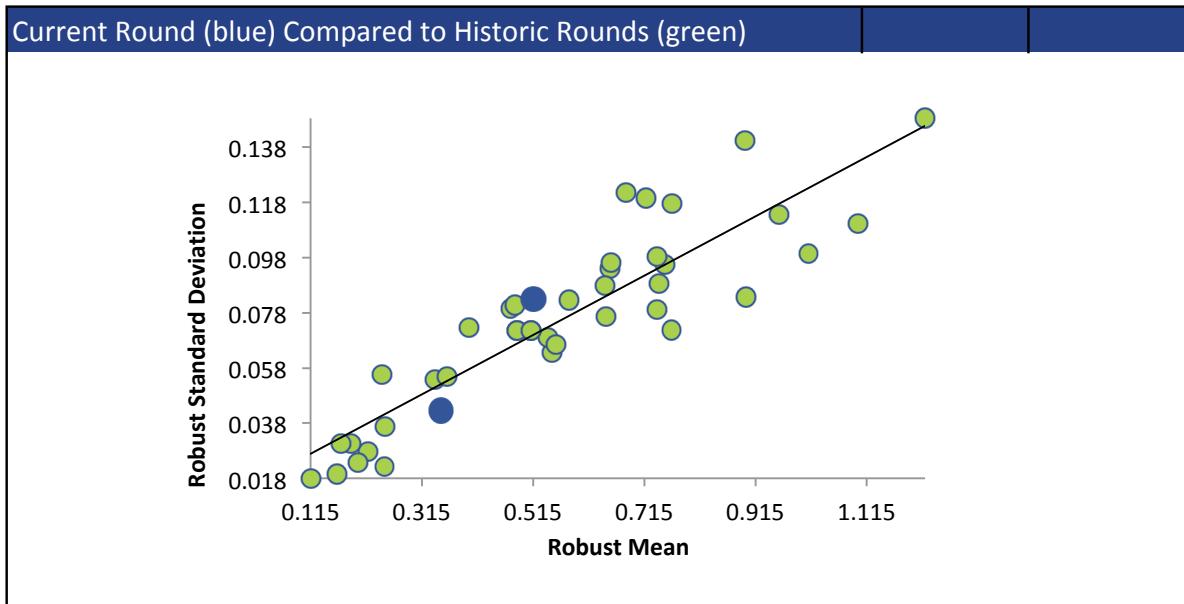
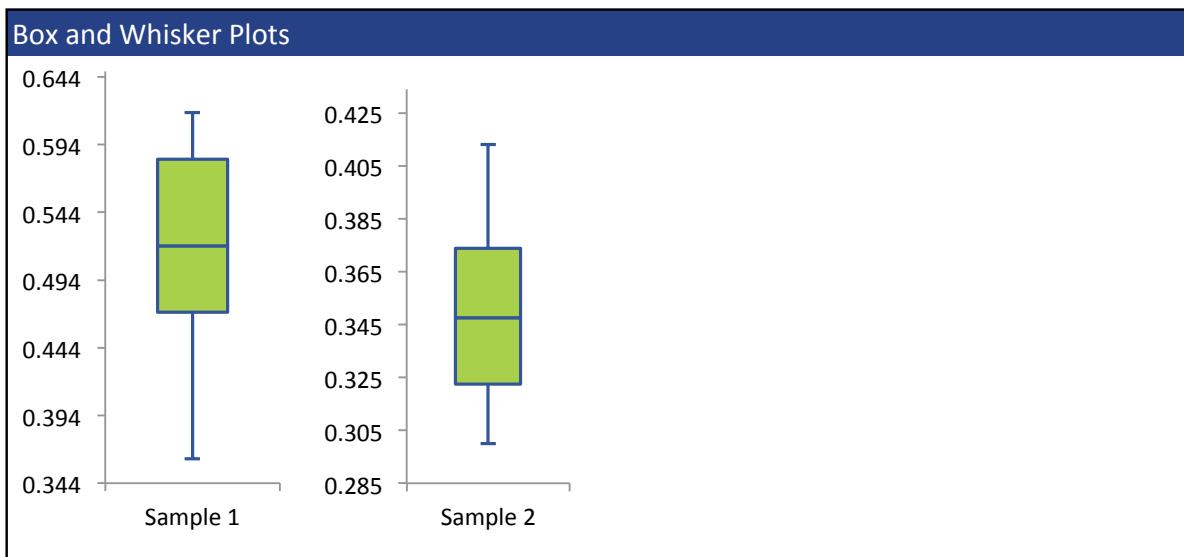


## SELENIUM

	Stability Assessment	Homogeneity Assessment
Sample 4		

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

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



## SILVER

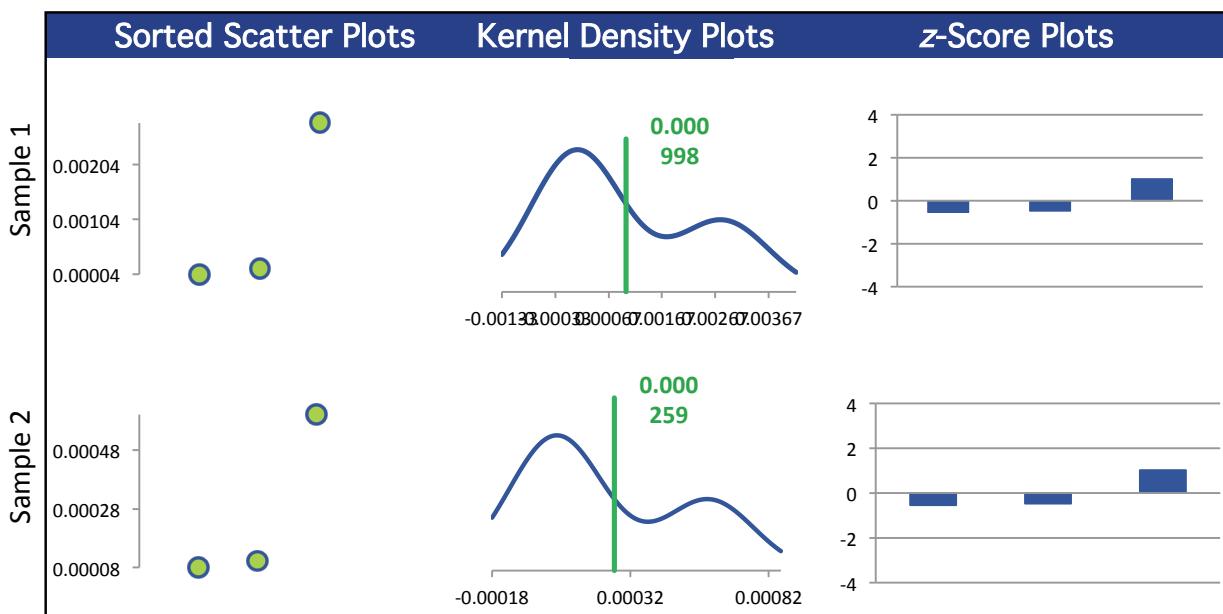
## Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	3	3	0	0
Median mg/L	0.000150	0.000100		
Robust Mean mg/L	0.000998	0.000259		
U mg/L	0.00128	0.000242		
Robust Standard Deviation mg/L	0.00177	0.000335		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.00177	0.000335		
Outliers	0	0	0	0
$ z  > 3.0$	0	0	0	0
$2 <  z  < 3$	0	0	0	0

## Methods Used

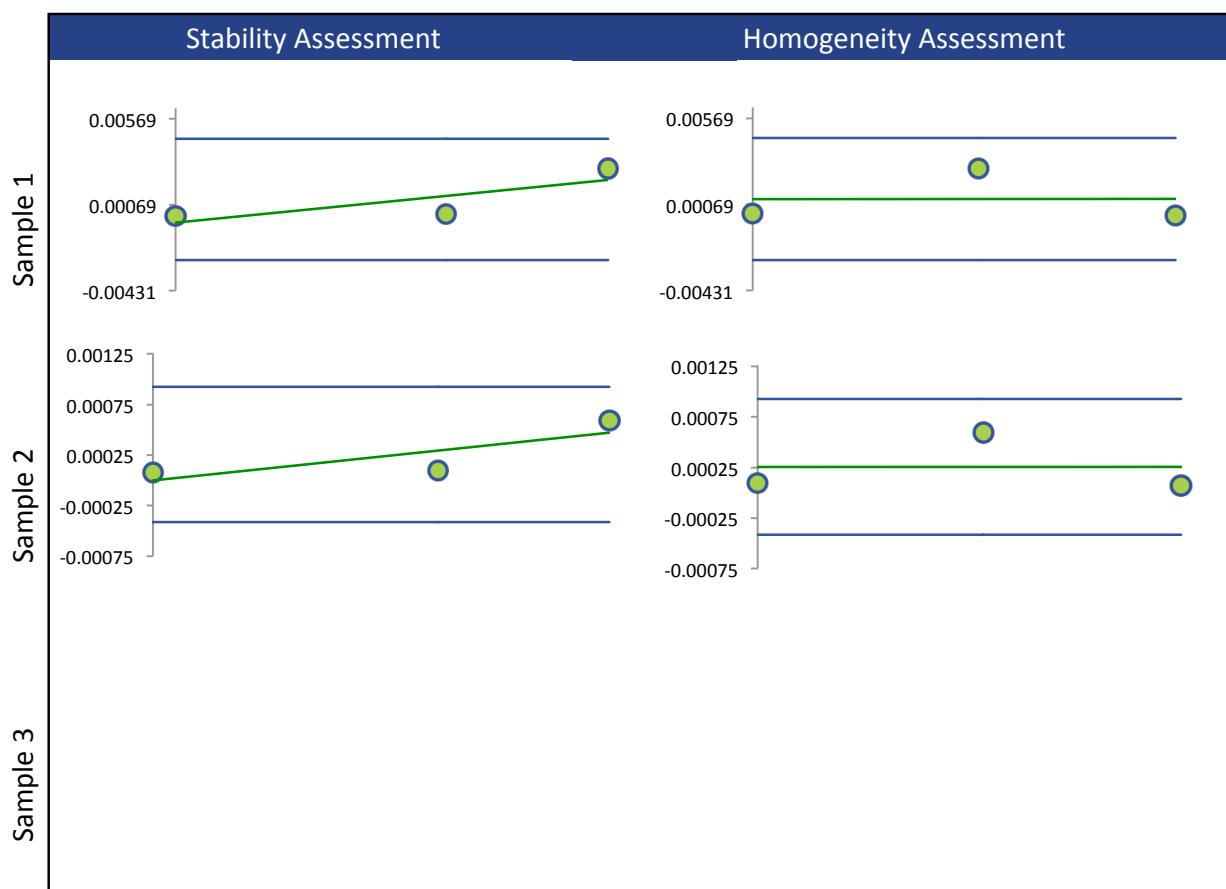
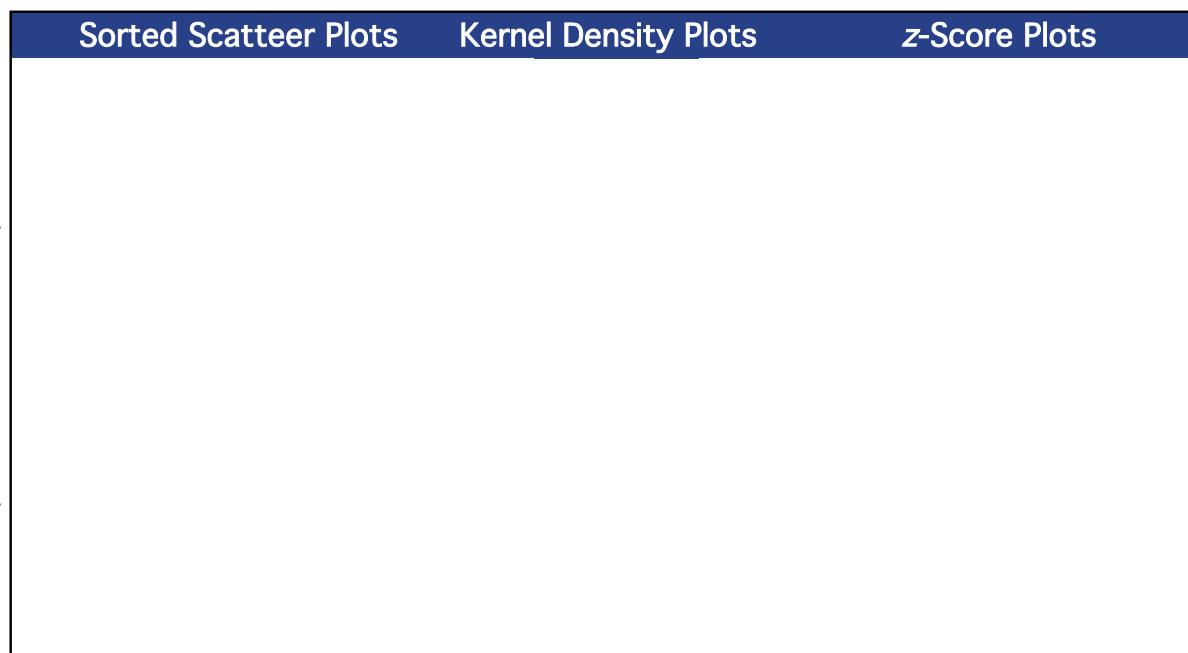
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	3	3	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



## Annex A Summary by Analyte

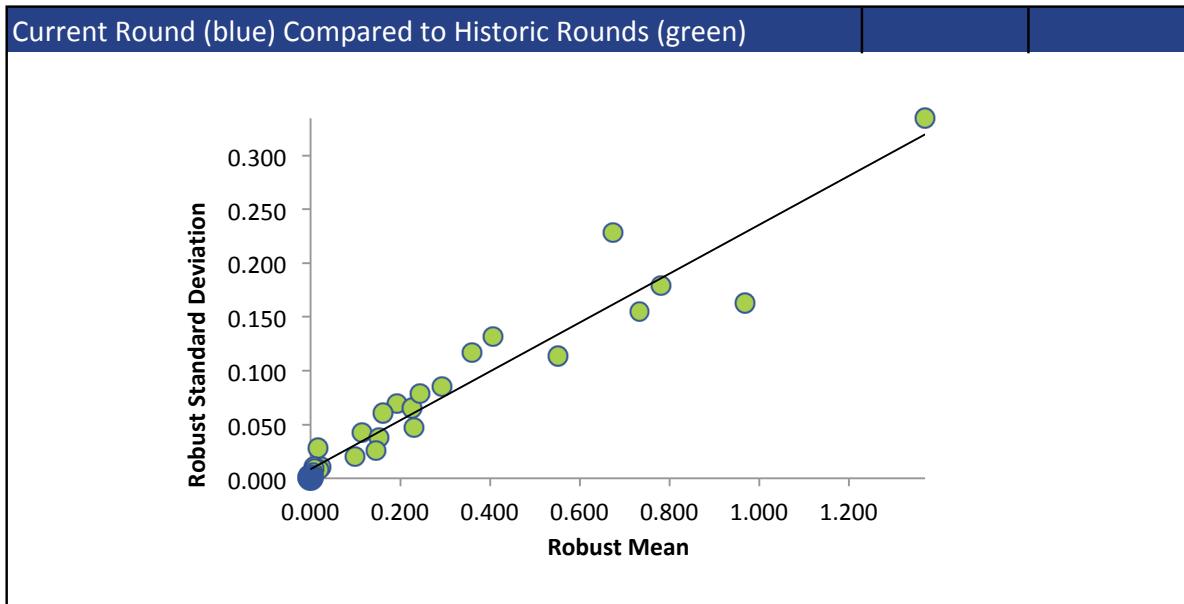
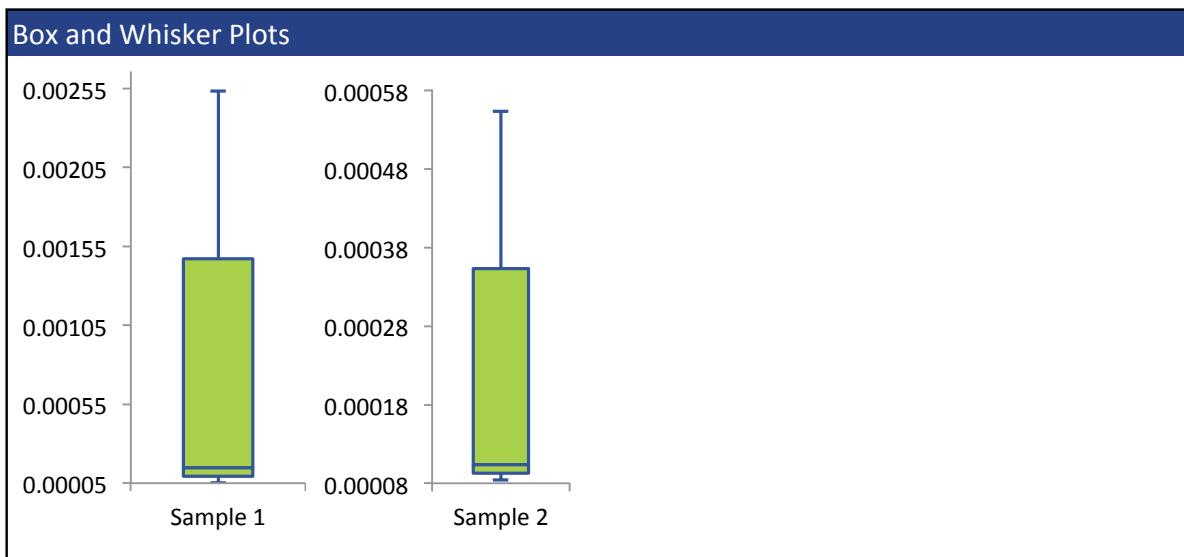
### SILVER



## Annex A Summary by Analyte

### SILVER

	Stability Assessment	Homogeneity Assessment
Sample 4		<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>



## URANIUM

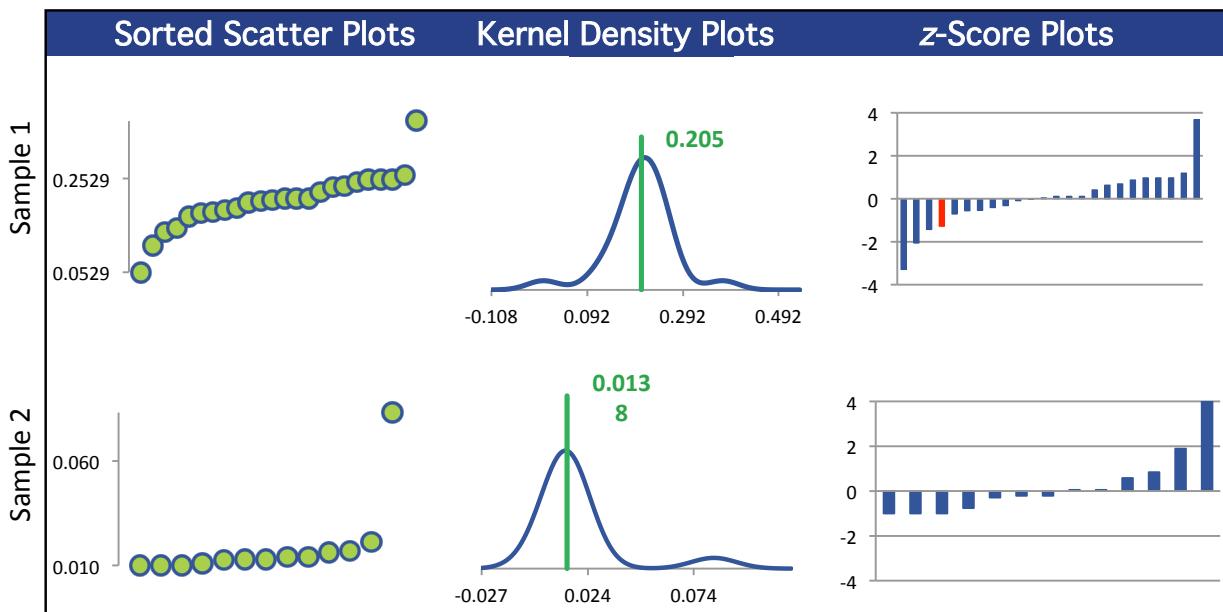
### Summary Statistics

Statistic	C39-1	C39-2	C39-3	C39-4
N	24	13	0	0
Median mg/L	0.209	0.0130		
Robust Mean mg/L	0.205	0.0138		
U mg/L	0.0118	0.00132		
Robust Standard Deviation mg/L	0.0462	0.00380		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0462	0.00380		
Outliers	1	1	0	0
$ z  > 3.0$	2	1	0	0
$2 <  z  < 3$	1	0	0	0

### Methods Used

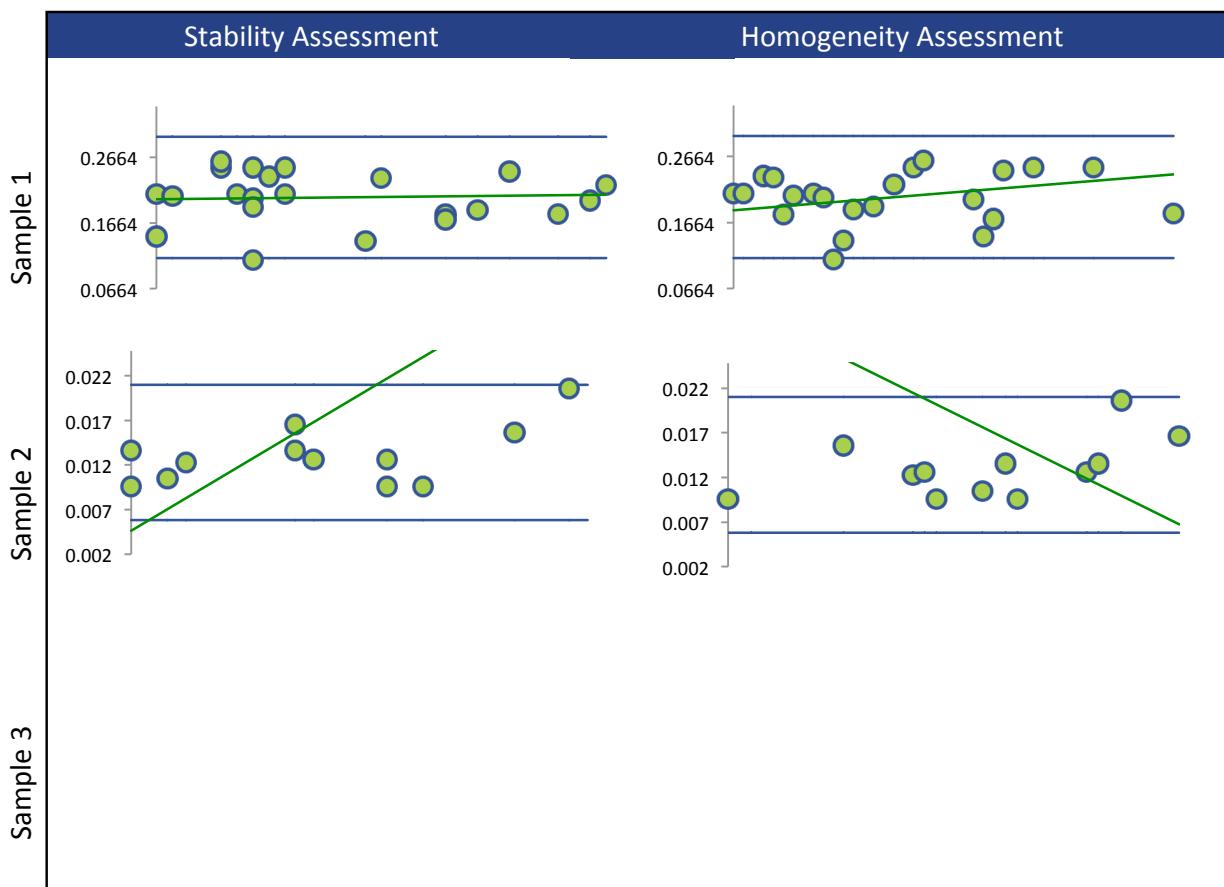
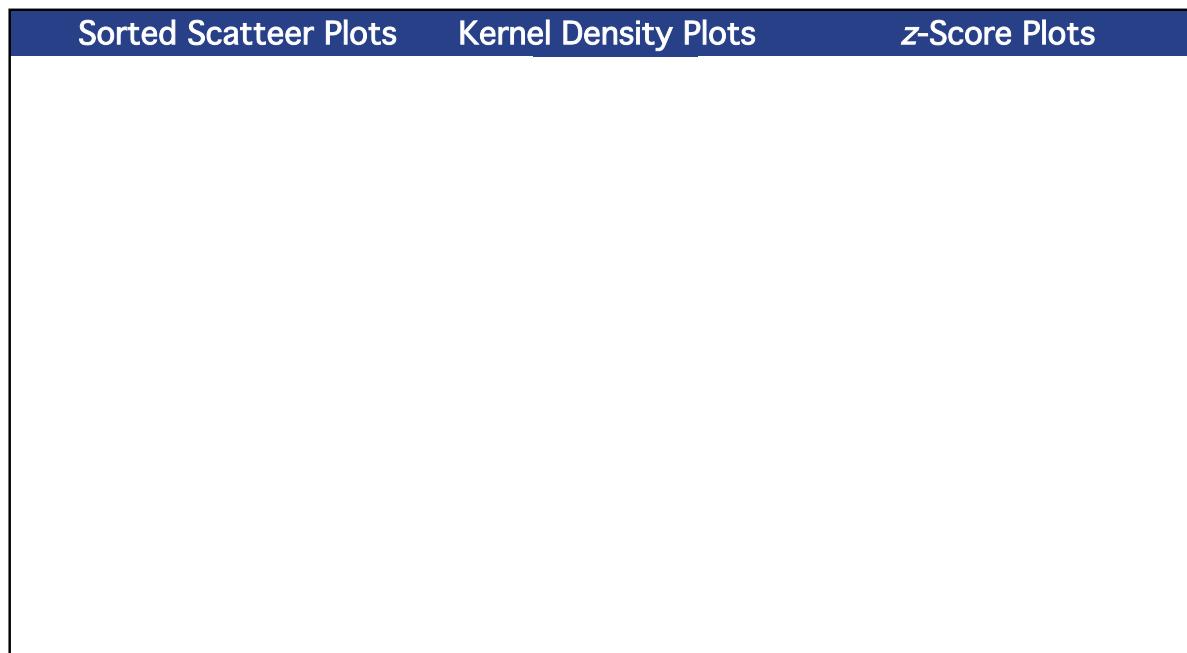
Method	C39-1	C39-2	C39-3	C39-4
ICP/MS (Blue)	20	11	0	0
ICP/OES (Red)	4	2	0	0

All summary stats and the plots below are based on the data excluding any flagged outliers



## Annex A Summary by Analyte

### URANIUM



## Annex A Summary by Analyte

## URANIUM

	Stability Assessment	Homogeneity Assessment
Sample 4	Stability assessments are regression analysis of reported result against date of analysis.	Homogeneity assessments are regression analysis of reported result against bottling order.

