

**STATISTICAL ANALYSIS REPORT
FOR
SW-846 METHOD 8327
MULTI-LAB VALIDATION STUDY
JUNE 2019**

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EXECUTIVE SUMMARY

A study was performed to validate proposed method SW-846 8327. Data from eight labs, which fit quality assurance guidelines, was used in the statistical analysis. The method was validated for 24 per- and polyfluorinated alkyl substances (PFAS) analytes and 19 surrogates. Four media were tested: reagent water, surface water, groundwater, and wastewater effluent. The samples tested included blanks (no PFAS), low spikes (60 ng/l), and high spikes (200 ng/l). The labs each analyzed five replicates for each media and spike level.

The results were statistically analyzed for accuracy using the recovery and for precision using the relative standard deviation. The laboratory results were analyzed for each analyte and surrogate separately as well as for each lab, media, and spike level. The lab results were then compiled to provide across lab results. The results were also compiled across labs, spike levels, and analytes to determine if the results differed between media. The results were also compiled across labs, media, and analytes to determine if the results differed between spike levels. The results were also compiled across labs, media, and spike levels to determine if the results differed between analytes and surrogates. Finally, an intra-laboratory analysis was performed.

1 INTRODUCTION

1.1 Analytical Methods

The validation study was undertaken to determine if multiple laboratories could achieve the necessary accuracy and precision of draft method SW-846 8327, analysis of Analysis of Poly and Perfluorinated Alkyl Substances (PFAS) in Waters. The analysis was performed in four media: reagent water, surface water, groundwater, and wastewater effluent. The method is for 24 target PFAS and 19 surrogate PFAS. Each participating laboratory was asked to analyze five replicates each of blank samples, low-spike samples, and high-spike samples for all target and surrogate PFAS in all four media. The fifteen samples per media (five blank, five low-spike, and five high-spike) were assigned random sample numbers. To summarize, the labs were asked to analyze a total of 60 samples: five replicates for each three spike levels for each four media. The labs were not blinded to media, as it was considered difficult to blind the laboratory analysts to wastewater effluent compared to reagent water, and possibly surface water and groundwater. To prevent bias in analysis order, all 60 samples per lab were assigned a random analysis order, and the participating laboratories were asked to analyze in that order. The random analysis order assignment was independently done for each lab, so each lab analyzed the samples in the different order from the other labs.

The analysis results were statistically analyzed to determine if they met the necessary performance measures. A total of eight laboratories were used for the analysis. Four laboratories from the internal validation study were used. These laboratories are designated as Labs 2, 4, 5, and 6. The number was randomly assigned to participating labs at the beginning of the internal study. Four laboratories from the external validation study were used. These laboratories are designated as labs 10, 11, 12, and 16. The number was randomly assigned to participating labs at the beginning of the external study. The data from four laboratories, who returned analysis results, were not used due to deviations from the method or multiple calibration failures. More detailed discussion of the reasons for the exclusion of these laboratories from the statistical analysis is given in Appendix E. Other laboratories were initially part of the study but did not return results in the needed timeframe. Of the results from included eight laboratories, only one sample, a low spiked waste water sample from lab 10, was not used in the statistical analysis because the sample results did not meet quality control measures.

1.2 Statistical Methods

All statistics were performed in SAS version 9.4 (TS1M1) (SAS Institute, Cary, NC). Data was imported into SAS from Microsoft Excel. Statistics were calculated through a combination of PROC MEANS and PROC UNIVARIATE. Tables presented in this report were generated in SAS and exported to Excel. Graphs from generated in SAS using PROC SGPLOT.

1.3 Performance Measures

Numerous statistical measures are used to determine if the results met the necessary accuracy and precision. Accuracy signifies how close a measurement is to the real value. The accuracy is based on the recovery. The recovery is the percentage of the actual spiked concentration that was measured. The precision is based on the relative standard deviation. Precision signifies how close repeated measurements are to each other.

1.3.1 QAPP Specified Performance Measures

For several reported analysis, the arithmetic mean is used. The arithmetic mean is the sum of a set of measurements divided by the number of measurements. The formula is provided below:

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$$

Where $\bar{x}$ = mean, n = number of measurements, and x_i = the measurements.

Background was calculated for the target analytes before calculating the several statistics. The background was calculated as the mean of the measured concentration for the blank replicates for each analyte for each media for each laboratory. The background was then subtracted from each measured concentration to give a modified concentration, as follows:

$$x_i^* = x_i - \bar{x}_{\text{blank}}$$

This modified concentration was used for numerous statistical tests including the recovery for target analytes.

The percent recovery of the analyte was calculated differently for the target analytes and the surrogates. The percent recovery of the surrogates was calculated as follows:

$$\text{Recovery}(\%) = \frac{x_i}{x_{\text{spike}}} \times 100$$

Where x_{spike} = the actual spike concentration. The percent recovery of the target analytes was calculated as follows:

$$\text{Recovery}(\%) = \frac{x_i^*}{x_{\text{spike}}} \times 100$$

According to the Quality Assurance Project Plan (QAPP), a recovery between 70% and 130% was considered acceptable. Thus, in the report, if the recovery of a sample or the median recovery of a dataset was between 70% and 130%, it was declared acceptable.

The standard deviation measures the variability between repeated measurements and is calculated as follows:

$$SD = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n - 1}}$$

The relative standard deviation measures the variability between repeated measurements compared to the mean of the repeated measurements and is calculated as follows:

$$RSD = \frac{SD}{\bar{x}} \times 100$$

A relative standard deviation less than 50% was considered acceptable according to the Quality Assurance Project Plan (QAPP). Thus, in the report, if the relative standard deviation of a dataset was less than 50%, it was declared acceptable.

To determine the overall accuracy of the measurements, the median of the recovery was calculated. The median was used rather than the mean in case the measurements did not have a normal distribution. The median is also less impacted by outliers than the mean. To calculate the median, the recoveries were first ordered from smallest to largest. For an odd number of measurements, the median is the middle number. That is, if there are n measurements, and n is odd, then the median is the $[(n+1)/2]$ th measurement. If n is even, then the median is arithmetic average of the middle two measurements.

The lower and upper 95% limits were calculated on the median recovery to indicate the range of the confidence as the true median. The lower 95% confidence limits is given by

$$\frac{n}{2} - \frac{1.96\sqrt{n}}{2} \text{ th ranked value.}$$

The lower 95% confidence limits are given by

$$1 + \frac{n}{2} - \frac{1.96\sqrt{n}}{2} \text{ th ranked value.}$$

1.3.2 Other Performance Measures

The Shapiro-Wilk statistic was used to determine if the recovery measurements had a normal distribution. The p-value for this test is reported. A p-value less than 0.05 indicates that at the 95% confidence level, the data are not normally distributed. The Shapiro-Wilk statistic was not discussed in the QAPP, but it was calculated because many of the statistics discussed in the QAPP assume a normal distribution. Hence, it was necessary to determine if the datasets had a normal distribution and thus it was appropriate to calculate those statistics.

The Student's t-test was used to determine if the calculated mean measured concentration was the same as actual spike concentration. The null hypothesis is that the mean measured concentration is the same the actual spiked concentration. The Student's t-test statistic and the p-value was calculated. The t-test statistic is calculated by

$$t = \frac{\bar{x} - \mu_0}{s/\sqrt{n}}$$

The Student's t-test p-value was reported. This statistic is not discussed in the QAPP, but it is another way to describe and understand the data. A p-value less than 0.10 indicates, that there is less than a 10% chance, the measured value is the same as the spiked concentration. Hence at a 90% confidence level, a p-value of 0.10 indicates that the null hypothesis should be rejected, and the measured concentrations are not the same as the spiked level. As the p-value increases, the confidence that the measured concentrations are the same as the spiked concentration increases. For discussions of the results, a p-value of 0.10 was used to indicate the measured values were or were not the same as the spiked concentration. Use of a 90% confidence level for the Student's t-test is a much stricter limit of accuracy of the results as compared to the 70-130% recovery limits, but the t-test results provide for another means to analyze the results that takes into account both the accuracy and precision. The results from the Student's t-test are not the same as the recovery therefore. The Student's t-test helps to describe the confidence that a set of measured concentrations are exactly the same as the spiked concentration by examining their differences and variability. The recovery is not a confidence level but indicates how close any particular measured concentration is to the spiked concentration.

2 ANALYTE AND SURROGATE RESULTS

The results of the laboratory analysis are first discussed for each target analyte then for each surrogate analyte. The results for the blanks, low spikes, and high spikes are discussed. Tables displaying all the calculated statistics are given in Appendix A. Graphs displaying the measured concentrations and also the recoveries for each target analyte and surrogate analyte are given in Appendix B. Reference lines are presented on the measured concentrations graph indicating the spike levels for the analytes. Reference lines are presented on the recovery graphs indicating 70% and 130%, the acceptable limits for recovery. Because of outliers with many analytes that compressed the recovery graphs, for several analytes, two recovery graphs are presented. Each analyte has a recovery graph is set with a minimum recovery of 0% and a maximum recovery of 250%. Some analytes have a second recovery graph with no maximum recovery limit so that all outliers are shown.

2.1 *Perfluorotetradecanoic acid (PFTreA)*

The measurements and recoveries combined for all labs are presented in Figures B-1 and 2. Overall, the results are good, but a few high outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-1. One lab reported a concentration for each media for PFTreA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. The highest reported concentration across the media was 30.1 ng/l.

The results of the low spike samples are given in Table A-44. Of the 159 low spike samples (only 39 wastewater), 29, 30, 31, and 27 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 4 (too low). The median recovery for reagent water was unacceptable for lab 2 (too low) and lab 16 (too high). The median recovery for surface water was unacceptable for lab 2 (too low) and lab 12 (too low). The median recovery for wastewater was unacceptable for lab 2 (too low), lab 4 (too low), and lab 16 (too high). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 19.6 ng/l, and the highest modified concentration across the media was 103.0 ng/l. All labs had acceptable RSD in all media. With the exception of a few individual lab data sets, the data were normally distributed including when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration with just a few exceptions. For two to three labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 5 though had results with consistently good confidence of being equal to the true values.

The results of the high spike samples are given in Table A-87. Of the 160 high spike samples, 37, 37, 36, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 2 (too low). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 110.4 ng/l, and the highest modified concentration across the media was 317.8 ng/l. All labs had acceptable RSD in all media. With the exception of a few individual lab data sets, the data were normally distributed including when combined across all labs except for groundwater and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are same as the true spiked concentration with just a few exceptions. For two to three labs per media, t-tests indicate

that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 16 though had results with good confidence of being equal to the true values for three of four media.

2.2 *Perfluorotridecanoic acid (PFTriA)*

The measurements and recoveries combined for all labs are presented in Figures B-3 and 4. Overall, the results are good, but a few high outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-2. At least one lab reported a concentration for each media for PFTriA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. Lab 5 reported a concentration in at least one sample surface water and wastewater. The highest reported concentration across the media was 24.4 ng/l.

The results of the low spike samples are given in Table A-45. Of the 159 low spike samples (only 39 wastewater), 32, 32, 33, and 30 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 2 (too low). The median recovery for wastewater was unacceptable for lab 16 (too high). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 24.7 ng/l, and the highest modified concentration across the media was 122.8 ng/l. With the exception of a few individual lab data sets, the data were normally distributed including when combined across all labs except for groundwater and waste water. Overall for groundwater, reagent water, and surface water, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration with just a few exceptions. For wastewater, t-tests indicate that five of the labs reported measured concentrations that are the same as the true spiked concentration. For one to five labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 11 though had results with good confidence of being equal to the true values for three of four media.

The results of the high spike samples are given in Table A-88. Of the 160 high spike samples, 35, 35, 36, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 5 (too high). The median recovery for wastewater was unacceptable for lab 2 (too low). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 119.8 ng/l, and the highest modified concentration across the media was 300.5 ng/l. With the exception of a few individual lab data sets, the data were normally distributed including when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration with just a few exceptions. For two to four labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 11 though had results with good confidence of being equal to the true values for three of four media.

2.3 *Perfluorododecanoic acid (PFDoA)*

The measurements and recoveries combined for all labs are presented in Figures B-5 and 6. Overall, the results are good, but several high outliers and a few low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-3. At least one lab reported a concentration for each media for PFDoA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. The highest reported concentration across the media was 21.8 ng/l.

The results of the low spike samples are given in Table A-46. Of the 159 low spike samples (only 39 wastewater), 33, 33, 35, and 28 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 16 (too high). The median recovery for wastewater was unacceptable for lab 4 (too low) and lab 16 (too high). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 28.8 ng/l, and the highest modified concentration across the media was 115.3 ng/l. All labs had acceptable RSD in all media. With the exception of a few individual lab data sets, the data were normally distributed, but when combined across all labs, the data was not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. For three to four labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 5 and 11 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-89. Of the 160 high spike samples, 35, 36, 36, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 16 (too high). The median recovery for reagent water was unacceptable for lab 16 (too high). The median recovery for surface water was unacceptable for lab 16 (too high). The median recovery for wastewater was unacceptable for lab 16 (too high). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 132.7 ng/l, and the highest modified concentration across the media was 331.4 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about two or four labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 11 though had results with good confidence of being equal to the true values for all four media.

2.4 *Perfluoroundecanoic acid (PFUnA)*

The measurements and recoveries combined for all labs are presented in Figures B-7 and 8. Overall, the results are good with just a few high outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-4. At least one lab reported a concentration for each media for PFUnA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. The highest reported concentration across the media was 25.1 ng/l.

The results of the low spike samples are given in Table A-47. Of the 159 low spike samples (only 39 wastewater), 36, 36, 36, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 37.7 ng/l, and the highest modified concentration across the media was 97.7 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about three to five labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-90. Of the 160 high spike samples, 36, 36, 39, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 16 (too high). The median recovery for reagent water was unacceptable for lab 16 (too high). The median recovery for wastewater was unacceptable for lab 16 (too high). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 144.7 ng/l, and the highest modified concentration across the media was 312.0 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about two to four labs per media, t-tests indicate that there is reasonable confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.5 *Perfluorodecanoic acid (PFDA)*

The measurements and recoveries combined for all labs are presented in Figures B-9 and 10. Overall, the results are good with just a few high outliers and a low outlier. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-5. At least one lab reported a concentration for each media for PFDA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. Two other labs reported a concentration in at least one wastewater sample. The highest reported concentration across the media was 34.0 ng/l.

The results of the low spike samples are given in Table A-48. Of the 159 low spike samples (only 39 wastewater), 38, 36, 38, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 33.2 ng/l,

and the highest modified concentration across the media was 107.0 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is reasonable to good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-91. Of the 160 high spike samples, 40, 37, 39, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 128.2 ng/l, and the highest modified concentration across the media was 326.7 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to four labs per media, t-tests indicate that there is reasonable to good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.6 *Perfluorononanoic acid (PFNA)*

The measurements and recoveries combined for all labs are presented in Figures B-11 and 12. Overall, the results are good with just a few high outliers. The interquartile range of all recoveries are within the acceptable limits and are nicely small.

Results of the blank samples are given in Table A-6. At least one lab reported a concentration for each media for PFNA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. The highest reported concentration across the media was 29.5 ng/l.

The results of the low spike samples are given in Table A-49. Of the 159 low spike samples (only 39 wastewater), 38, 40, 38, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 38.8 ng/l, and the highest modified concentration across the media was 86.1 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for reagent water and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is reasonable to good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked

concentration. Labs 4, 11, and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-92. Of the 160 high spike samples, 40, 39, 40, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 144.8 ng/l, and the highest modified concentration across the media was 268.6 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed, and the data when combined across all labs were also normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about one to four labs per media, t-tests indicate that there is reasonable to good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

2.7 *Perfluorooctanoic acid (PFOA)*

The measurements and recoveries combined for all labs are presented in Figures B-13 and 14. Overall, the results are good with just a few high outliers and a low outlier. The interquartile range of all recoveries are within the acceptable limits and are nicely small.

Results of the blank samples are given in Table A-7. At least one lab reported a concentration for each media for PFOA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. Four other labs reported at least one concentration in a surface water sample, and all labs reported at least one concentration in a wastewater sample. The highest reported concentration across the media was 36.9 ng/l.

The results of the low spike samples are given in Table A-50. Of the 159 low spike samples (only 39 wastewater), 39, 40, 38, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 36.6 ng/l, and the highest modified concentration across the media was 86.1 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed, and the data when combined across all labs were also normally distributed. Overall for all media, t-tests indicate that confidence is good the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. For about four to six labs per media, t-tests indicate that there is very good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 2 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-93. Of the 160 high spike samples, 38, 40, 40, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 150.4 ng/l, and the highest modified concentration across the media was 270.0 ng/l. All labs had acceptable RSD in all media. While

the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water and groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about two labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.8 *Perfluoroheptanoic acid (PFHpA)*

The measurements and recoveries combined for all labs are presented in Figures B-15 and 16. Overall, the results are good with just a few high outliers and a low outlier. The interquartile range of all recoveries are within the acceptable limits and are nicely small.

Results of the blank samples are given in Table A-8. At least one lab reported a concentration for each media for PFHpA in the blank samples. Lab 11 reported a concentration in at least one sample of all media except reagent water. Four other labs reported at least one concentration in a surface water sample, and two other different labs reported at least one concentration in a wastewater sample. The highest reported concentration across the media was 26.9 ng/l.

The results of the low spike samples are given in Table A-51. Of the 159 low spike samples (only 39 wastewater), 40, 40, 38, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for all labs in all media was acceptable. With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 41.4 ng/l, and the highest modified concentration across the media was 101.2 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed for reagent water and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 11 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-94. Of the 160 high spike samples, 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 151.1 ng/l, and the highest modified concentration across the media was 264.4 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed, and the data when combined across all labs were also normally distributed except in wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 11 and 16 though had results with good confidence of being equal to the true values for all four media.

2.9 Perfluorohexanoic acid (PFHxA)

The measurements and recoveries combined for all labs are presented in Figures B-17 and 18. Overall, the results are good, but a few high outliers and a low outlier exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-9. At least one lab reported a concentration for each media for PFHxA in the blank samples. Lab 5 reported a concentration in at least one sample of all media. Lab 11 reported a concentration in at least one sample of all media except reagent water. Two other labs reported at least one concentration in a surface water sample, and all labs except lab 4 reported at least one concentration in a wastewater sample. The highest reported concentration across the media was 60.9 ng/l.

The results of the low spike samples are given in Table A-52. Of the 159 low spike samples (only 39 wastewater), 38, 39, 34, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for surface water was unacceptable for lab 4 (too high). The median recovery for wastewater was unacceptable for lab 4 (too high). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 29.0 ng/l, and the highest modified concentration across the media was 97.5 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 11 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-95. Of the 160 high spike samples, 40, 40, 40, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 102.9 ng/l, and the highest modified concentration across the media was 262.9 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water and reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about three to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

2.10 Perfluoropentanoic acid (PFPeA)

The measurements and recoveries combined for all labs are presented in Figures B-19-21. Overall, the results are good, but a few high outliers, mainly with the low-spiked groundwater, exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-10. At least one lab reported a concentration for each media for PFPeA in the blank samples. Lab 10 reported a concentration in at least one sample of all media. Two other labs reported a concentration in at least one sample of surface water. All labs except lab 4 and 6 reported at least one concentration in a wastewater sample. The highest reported concentration across the media was 63.4 ng/l.

The results of the low spike samples are given in Table A-53. Of the 159 low spike samples (only 39 wastewater), 36, 36, 37, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 16 (too high). The median recovery for surface water was unacceptable for lab 13 (too high). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 41.6 ng/l, and the highest modified concentration across the media was 181.7 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed for groundwater and reagent water. Overall for all media except wastewater, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 11 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-96. Of the 160 high spike samples, 40, 40, 40, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 149.8 ng/l, and the highest modified concentration across the media was 254.7 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for groundwater and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. However, for about zero to two labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.11 Perfluorobutanoic acid (PFBA)

The measurements and recoveries combined for all labs are presented in Figures B-22-23. Overall, the results are good with just one high outlier and one low outlier. The interquartile range of all recoveries are within the acceptable limits, except low-spiked surface water whose lower quartile range hits the 70% line.

Results of the blank samples are given in Table A-11. At least one lab reported a concentration for each media for PFBA in the blank samples. Lab 5 and 10 reported a concentration in at least one sample of reagent water. Three others labs reported a concentration in at least one sample of groundwater, surface water, and wastewater. The highest reported concentration across the media was 39.3 ng/l.

The results of the low spike samples are given in Table A-54. Of the 159 low spike samples (only 39 wastewater), 33, 33, 28, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 6 (too low). The median recovery for reagent water was unacceptable for lab 10 (too low). The median recovery for surface water was unacceptable for lab 10 (too low). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 18.5 ng/l, and the highest modified concentration across the media was 100.1 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were also normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-97. Of the 160 high spike samples, 39, 37, 32, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for surface water was unacceptable for lab 10 (too low). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 95.5 ng/l, and the highest modified concentration across the media was 273.5 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed, and the data when combined across all labs were also normally distributed except in groundwater and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration. Only lab 16 had results with good confidence the reported measured concentrations are the same as the true spiked concentration for all media except groundwater.

2.12 Perfluorodecane sulfonic acid (PFDS)

The measurements and recoveries combined for all labs are presented in Figures B-24 and 25. Overall, the results are good with just a few high outliers and a low outlier. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-12. Only lab 11 reported a concentration for PFDS in the blank samples, and that was in wastewater and groundwater. The highest reported concentration across the media was 6.4 ng/l.

The results of the low spike samples are given in Table A-55. Of the 159 low spike samples (only 39 wastewater), 35, 38, 32, and 33 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 2 (too low). The median recovery for surface water was unacceptable for lab 2 (too low). With a spike level of 57.9 ng/l, the lowest modified concentration across the media was 24.2 ng/l, and the highest modified concentration across the media was 87.1 ng/l. All labs had acceptable RSD in all media. The

data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about zero to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-98. Of the 160 high spike samples, 37, 37, 38, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 193 ng/l, the lowest modified concentration across the media was 101.6 ng/l, and the highest modified concentration across the media was 274.1 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.13 Perfluorononane sulfonic acid (PFNS)

The measurements and recoveries combined for all labs are presented in Figures B-26 and 27. Overall, the results are good with just two high outliers. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-13. No lab reported a concentration for PFNS in any of the blank samples.

The results of the low spike samples are given in Table A-56. Of the 159 low spike samples (only 39 wastewater), 35, 37, 34, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for surface water was unacceptable for lab 2 (too low). With a spike level of 57.6 ng/l, the lowest modified concentration across the media was 35.3 ng/l, and the highest modified concentration across the media was 87.1 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-99. Of the 160 high spike samples, 37, 36, 39, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 16 (too high). With a spike level of 192 ng/l, the lowest modified concentration across the media was 142.8 ng/l, and the

highest modified concentration across the media was 281.6 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for groundwater and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to three labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.14 Perfluorooctane sulfonic acid (PFOS)

The measurements and recoveries combined for all labs are presented in Figures B-28-30. Overall, the results are good, but a few high outliers exist that skew the results. In particular, high-spiked wastewater has a measured concentration outlier near 500 and 800 that skew the results. The interquartile range of all recoveries are within the acceptable limits. However, the high-spiked wastewater mean is near the upper quartile level because of the high outliers.

Results of the blank samples are given in Table A-14. At least one lab reported a concentration for each media for PFOS in the blank samples. Lab 11 reported a concentration in at least one sample of each media. One other lab reported a concentration in at least one sample of surface water, three other labs reported a concentration in at least one sample of surface water, and five other labs reported a concentration in at least one sample of wastewater. The highest reported concentration across the media was 42.5 ng/l.

The results of the low spike samples are given in Table A-57. Of the 159 low spike samples (only 39 wastewater), 36, 37, 36, and 33 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 4 (too high). With a spike level of 55.5 ng/l, the lowest modified concentration across the media was -34.0 ng/l, and the highest modified concentration across the media was 102.7 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for groundwater and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 11 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-100. Of the 160 high spike samples, 39, 40, 40, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 185 ng/l, the lowest modified concentration across the media was 136.1 ng/l, and the highest modified concentration across the media was 771.9 ng/l. Lab 10 had unacceptable RSD for wastewater. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than

half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 6 though had results with good confidence of being equal to the true values for all four media.

2.15 Perfluoroheptane sulfonic acid (PFHpS)

The measurements and recoveries combined for all labs are presented in Figures B-31 and 32. Overall, the results are good with just one high outlier. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-15. No lab reported a concentration for PFHpS in any of the blank samples.

The results of the low spike samples are given in Table A-58. Of the 159 low spike samples (only 39 wastewater), 38, 39, 39, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 57 ng/l, the lowest modified concentration across the media was 32.6 ng/l, and the highest modified concentration across the media was 78.9 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 2, 4, and 5 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-101. Of the 160 high spike samples, 40, 39, 39, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 190 ng/l, the lowest modified concentration across the media was 147.7 ng/l, and the highest modified concentration across the media was 254.0 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to three labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.16 Perfluorohexane sulfonic acid (PFHxS)

The measurements and recoveries combined for all labs are presented in Figures B-33 and 34. Overall, the results are good, but several high outliers and several low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-16. At least one lab reported a concentration for each media for PFHxS in the blank samples. Lab 11 reported a concentration in at least one sample of all media, and lab 4 reported a concentration in at least one sample for all media except wastewater. Two other labs reported a concentration in at least one sample of surface water, and two other labs reported a concentration in at least one sample of wastewater. The highest reported concentration across the media was 33.2 ng/l.

The results of the low spike samples are given in Table A-59. Of the 159 low spike samples (only 39 wastewater), 34, 37, 39, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 4 (too low). With a spike level of 54.72 ng/l, the lowest modified concentration across the media was 25.1 ng/l, and the highest modified concentration across the media was 75.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about two to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-102. Of the 160 high spike samples, 40, 40, 40, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 182.4 ng/l, the lowest modified concentration across the media was 153.8 ng/l, and the highest modified concentration across the media was 325.9 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for groundwater and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 2, 4, and 11 though had results with good confidence of being equal to the true values for all four media.

2.17 Perfluoropentane sulfonic acid (PFPeS)

The measurements and recoveries combined for all labs are presented in Figures B-35 and 36. Overall, the results are good, but several high outliers and several low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits and are nicely small.

Results of the blank samples are given in Table A-17. None of the labs reported a concentration for PFPeS in any of the blank samples.

The results of the low spike samples are given in Table A-60. Of the 159 low spike samples (only 39 wastewater), 39, 40, 38, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 56.4 ng/l, the lowest modified concentration across the media was 36.4 ng/l, and the highest modified concentration across the media was 71.5 ng/l. All labs had acceptable RSD in all

media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4, 5, and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-103. Of the 160 high spike samples, 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 188 ng/l, the lowest modified concentration across the media was 146.0 ng/l, and the highest modified concentration across the media was 252.7 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for groundwater and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.18 Perfluorobutane sulfonic acid (PFBS)

The measurements and recoveries combined for all labs are presented in Figures B-37 and 38. Overall, the results are good, but several high outliers and a low outlier exist that skew the results. The interquartile range of all recoveries are within the acceptable limits and are nicely small.

Results of the blank samples are given in Table A-18. At least one lab reported a concentration for each media except reagent water for PFBS in the blank samples. Four labs reported a concentration in at least one sample of groundwater. Two labs reported a concentration in at least one sample of surface water. Two labs reported a concentration in at least one sample of wastewater. The highest reported concentration across the media was 13.2 ng/l.

The results of the low spike samples are given in Table A-61. Of the 159 low spike samples (only 39 wastewater), 38, 40, 38, and 37 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 53.1 ng/l, the lowest modified concentration across the media was 34.1 ng/l, and the highest modified concentration across the media was 76.1 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water and surface water. Overall for all media, t-tests indicate that confidence is good the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to five labs per media, t-tests indicate that there is very low confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 2 and 4 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-104. Of the 160 high spike samples, 40, 39, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs for all media. With a spike level of 177 ng/l, the lowest modified concentration across the media was 120.1 ng/l, and the highest modified concentration across the media was 253.5 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

2.19 Perfluorooctanesulfonamide (PFOSA)

The measurements and recoveries combined for all labs are presented in Figures B-39 and 40. Overall, the results are good with just a few high outliers. The interquartile range of all recoveries are within the acceptable limits and are nicely small.

Results of the blank samples are given in Table A-19. None of the labs reported a concentration for PFOSA in any of the blank samples.

The results of the low spike samples are given in Table A-62. Of the 159 low spike samples (only 39 wastewater), 38, 39, 31, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for surface water was unacceptable for lab 2 (too low) and lab 4 (too low). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 34.8 ng/l, and the highest modified concentration across the media was 82.8 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall, t-tests indicate that confidence is high that the measured values are the true values except groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 5 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-105. Of the 160 high spike samples, 40, 39, 40, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs for all media. With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 139.6 ng/l, and the highest modified concentration across the media was 244.1 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for reagent water and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same

as the true spiked concentration. However, for about one to three labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.20 Fluorotelomer sulfonic acid 8:2 (FtS 8:2)

The measurements and recoveries combined for all labs are presented in Figures B-41 and 42. Overall, the results are good, but several high outliers and a few low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits, except high-spiked wastewater whose upper quartile is just over 130%.

Results of the blank samples are given in Table A-20. None of the labs reported a concentration for PFOSA in any of the blank samples.

The results of the low spike samples are given in Table A-63. Of the 159 low spike samples (only 39 wastewater), 34, 38, 34, and 33 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 57.6 ng/l, the lowest modified concentration across the media was 27.7 ng/l, and the highest modified concentration across the media was 104.7 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-106. Of the 160 high spike samples, 37, 38, 36, and 29 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 2 (too high) and lab 6 (too high). With a spike level of 192 ng/l, the lowest modified concentration across the media was 129.5 ng/l, and the highest modified concentration across the media was 314.2 ng/l. All labs had acceptable RSD in all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.21 Fluorotelomer sulfonic acid 6:2 (FtS 6:2)

The measurements and recoveries combined for all labs are presented in Figures B-43-45. Overall, the results are fair, but a large number of high outliers exist that skew the results. Also, extreme

measurements both high and low skew the results but don't qualify as outliers. In particular, high-spiked groundwater and low-spiked surface water each have a sample with an adjusted measured concentration over 1000 ng/l. Also, due to background adjustment, several samples have adjusted measured concentrations that are negative. The interquartile range of recoveries for high-spiked reagent water and high-spiked wastewater are the only spike-media combinations within the acceptable limits for recovery. The rest extend below 70%. The low-spiked surface water mean is higher than the interquartile range due to the outliers.

Results of the blank samples are given in Table A-21. At least one lab reported a concentration for each media for FtS 6:2 in the blank samples. Lab 10 reported a concentration in at least one sample of all media. Lab 5 also reported a concentration in at least one sample for all media except reagent water, and lab 6 also reported a concentration in at least one sample for all media except groundwater. One other lab also reported a concentration in at least one sample for surface water. Three other labs also reported a concentration in at least one sample for wastewater. The highest reported concentration across the media was 163.6 ng/l.

The results of the low spike samples are given in Table A-64. Of the 159 low spike samples (only 39 wastewater), 24, 26, 22, and 25 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 10 (too low), lab 11 (too low), and lab 16 (too low). The median recovery for reagent water was unacceptable for lab 11 (too low) and lab 16 (too low). The median recovery for surface water was unacceptable for lab 10 (too low), lab 11 (too low), and lab 16 (too low). The median recovery for wastewater was unacceptable for lab 11 (too low) and lab 16 (too low). With a spike level of 57 ng/l, the lowest modified concentration across the media was -10.6 ng/l, and the highest modified concentration across the media was 1327.4 ng/l. Lab 10 had unacceptable RSD for all media except surface water. Lab 16 had unacceptable RSD in reagent water. Lab 11 had unacceptable RSD in surface water. The RSD across all labs was unacceptable for surface water. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-107. Of the 160 high spike samples, 26, 30, 25, and 26 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 11 (too low) and lab 16 (too low). The median recovery for reagent water was unacceptable for lab 11 (too low) and lab 16 (too low). The median recovery for surface water was unacceptable for lab 11 (too low) and lab 16 (too low). The median recovery for wastewater was unacceptable for lab 6 (too high), lab 11 (too low), and lab 16 (too low). With a spike level of 190 ng/l, the lowest modified concentration across the media was 65.6 ng/l, and the highest modified concentration across the media was 1089.0 ng/l. Lab 10 had unacceptable RSD for groundwater. Lab 11 had unacceptable RSD for reagent water. The across all labs RSD for groundwater was unacceptable. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the

individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 2 and 4 though had results with good confidence of being equal to the true values for all four media.

2.22 Fluorotelomer sulfonic acid 4:2 (FtS 4:2)

The measurements and recoveries combined for all labs are presented in Figures B-46 and 47. Overall, the results are good, but several high outliers and a low outlier exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-22. None of the labs reported a concentration for PFOSA in any of the blank samples.

The results of the low spike samples are given in Table A-65. Of the 159 low spike samples (only 39 wastewater), 33, 38, 35, and 32 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for surface water was unacceptable for lab 2 (too low). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 56.1 ng/l, the lowest modified concentration across the media was 28.9 ng/l, and the highest modified concentration across the media was 74.5 ng/l. All labs had acceptable RSD in all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-108. Of the 160 high spike samples, 40, 40, 39, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 187 ng/l, the lowest modified concentration across the media was 134.5 ng/l, and the highest modified concentration across the media was 292.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.23 *N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)*

The measurements and recoveries combined for all labs are presented in Figures B-48 and 49. Overall, the results are good, but a large number of high outliers and several low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-23. At least one lab reported a concentration for each media for NEtFOSAA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. The highest reported concentration across the media was 21.9 ng/l.

The results of the low spike samples are given in Table A-66. Of the 159 low spike samples (only 39 wastewater), 32, 37, 33, and 31 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 2 (too low). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 13.4 ng/l, and the highest modified concentration across the media was 117.3 ng/l. Lab 2 had unacceptable RSD for groundwater. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-109. Of the 160 high spike samples, 35, 34, 35, and 33 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 5 (too high). The median recovery for reagent water was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 5 (too high). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 142.7 ng/l, and the highest modified concentration across the media was 380.6 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to seven labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 2 and 4 though had results with good confidence of being equal to the true values for all four media.

2.24 *N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)*

The measurements and recoveries combined for all labs are presented in Figures B-50 and 51. Overall, the results are good, but a large number of high outliers and several low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits.

Results of the blank samples are given in Table A-24. At least one lab reported a concentration for each media for NEtFOSAA in the blank samples. Lab 11 reported a concentration in at least one sample of all media. The highest reported concentration across the media was 23.5 ng/l.

The results of the low spike samples are given in Table A-67. Of the 159 low spike samples (only 39 wastewater), 34, 36, 36, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 60.0 ng/l, the lowest modified concentration across the media was 24.0 ng/l, and the highest modified concentration across the media was 131.4 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 5 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-110. Of the 160 high spike samples, 37, 38, 36, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 5 (too high). With a spike level of 200.0 ng/l, the lowest modified concentration across the media was 126.1 ng/l, and the highest modified concentration across the media was 337.8 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs were not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.25 Perfluoro[1,2-¹³C₂]tetradecanoic acid (M2PFTeDA)

The measurements and recoveries combined for all labs are presented in Figures B-52 and 53. Overall, the results are good, but several high outliers and a few low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M2PFTeDA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-25. Of the 200 blank samples, 32, 33, 36, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for for lab 2 (too low). The median recovery for reagent water was unacceptable for lab 4 (too low). With a spike level of 160 ng/l, the lowest concentration across the media was 79.2 ng/l, and the highest concentration across the media was 274.0

ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed for surface water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than about half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 5 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-68. Of the 159 low spike samples (only 39 wastewater), 35, 36, 34, and 33 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 56.0 ng/l, and the highest concentration across the media was 300.8 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about two to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-111. Of the 160 high spike samples, 38, 36, 40, and 37 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 92.7 ng/l, and the highest concentration across the media was 308.7 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about one to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.26 *Perfluoro[1,2-¹³C₂]dodecanoic acid (MPFDoA)*

The measurements and recoveries combined for all labs are presented in Figures B-54 and 55. Overall, the results are good, but numerous high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits and are nicely small. While all samples should have had the same concentration of the surrogate MPFDoA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-26. Of the 200 blank samples, 38, 39, 35, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater,

respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 106.3 ng/l, and the highest concentration across the media was 360.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed for surface water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 10 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-69. Of the 159 low spike samples (only 39 wastewater), 40, 39, 37, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 16 (too high). With a spike level of 160 ng/l, the lowest concentration across the media was 108.8 ng/l, and the highest concentration across the media was 251.6 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 and 10 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-112. Of the 160 high spike samples, 39, 40, 38, and 37 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 109.0 ng/l, and the highest concentration across the media was 325.9 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 10 though had results with good confidence of being equal to the true values for all four media.

2.27 Perfluoro[1,2,3,4,5,6,7-¹³C₇]undecanoic acid (M7PFUdA)

The measurements and recoveries combined for all labs are presented in Figures B-56 and 57. Overall, the results are good, but several high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M7PFUdA added, for consistency with the analytes, the results from the

blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-27. Of the 200 blank samples, 40, 40, 38, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 113.6 ng/l, and the highest concentration across the media was 380.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 10 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-70. Of the 159 low spike samples (only 39 wastewater), 39, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 113.0 ng/l, and the highest concentration across the media was 208.2 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 10 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-113. Of the 160 high spike samples, 40, 39, 40, and 37 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 106.2 ng/l, and the highest concentration across the media was 302.4 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than about half the labs. However, for about four to seven labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 12 though had results with good confidence of being equal to the true values for all four media.

2.28 Perfluoro[1,2,3,4,5,6-¹³C₆]decanoic acid (M6PFDA)

The measurements and recoveries combined for all labs are presented in Figures B-58 and 59. Overall, the results are good with just a few high outliers and a low outlier. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M6PFDA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-28. Of the 200 blank samples, 38, 40, 39, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 115.1 ng/l, and the highest concentration across the media was 351.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater and reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the low spike samples are given in Table A-71. Of the 159 low spike samples (only 39 wastewater), 39, 40, 39, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 116.5 ng/l, and the highest concentration across the media was 213.2 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 10, 12, and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-114. Of the 160 high spike samples, 40, 39, 40, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 122.9 ng/l, and the highest concentration across the media was 328.7 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about two to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 12, and 16 though had results with good confidence of being equal to the true values for all four media.

2.29 Perfluoro[¹³C₉]nonanoic acid (M9PFNA)

The measurements and recoveries combined for all labs are presented in Figures B-60 and 61. Overall, the results are good, but several high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M9PFNA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-29. Of the 200 blank samples, 40, 40, 39, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 119.7 ng/l, and the highest concentration across the media was 351.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 10 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-72. Of the 159 low spike samples (only 39 wastewater), 38, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 106.3 ng/l, and the highest concentration across the media was 216.2 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-115. Of the 160 high spike samples, 39, 40, 40, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 108.7 ng/l, and the highest concentration across the media was 294.9 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater and reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported

measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

2.30 Perfluoro[¹³C₈]octanoic acid (M8PFOA)

The measurements and recoveries combined for all labs are presented in Figures B-62 and 63. Overall, the results are good, but a few high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M8PFOA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-30. Of the 200 blank samples, 40, 40, 39, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 111.1 ng/l, and the highest concentration across the media was 337.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to seven labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the low spike samples are given in Table A-73. Of the 159 low spike samples (only 39 wastewater), 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 121.4 ng/l, and the highest concentration across the media was 202.2 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 5 and 10 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-116. Of the 160 high spike samples, 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 115.6 ng/l, and the highest concentration across the media was 319.4 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about

three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4, 12, and 16 though had results with good confidence of being equal to the true values for all four media.

2.31 Perfluoro[1,2,3,4-¹³C₄]heptanoic acid (M4PFHpA)

The measurements and recoveries combined for all labs are presented in Figures B-64 and 65. Overall, the results are good, but a few high outliers and several low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M4PFHpA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-31. Of the 200 blank samples, 39, 39, 38, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 108.3 ng/l, and the highest concentration across the media was 342.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about two to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the low spike samples are given in Table A-74. Of the 159 low spike samples (only 39 wastewater), 39, 39, 40, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 103.6 ng/l, and the highest concentration across the media was 209.3 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 10 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-117. Of the 160 high spike samples, 40, 40, 40, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 95.5 ng/l, and the highest concentration across the media was 311.4 ng/l. All labs had acceptable RSD for all media. The data from individual labs

tended to be normally distributed as were the data when combined across all labs except for groundwater and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.32 Perfluoro[1,2,3,4,6-¹³C₅]hexanoic acid (M5PFHxA)

The measurements and recoveries combined for all labs are presented in Figures B-66 and 67. Overall, the results are good, but numerous high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M5PFHxA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-32. Of the 200 blank samples, 40, 40, 38, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 110.6 ng/l, and the highest concentration across the media was 316.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 11 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-75. Of the 159 low spike samples (only 39 wastewater), 40, 40, 37, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 96.6 ng/l, and the highest concentration across the media was 201.2 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 10 and 11 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-118. Of the 160 high spike samples, 40, 40, 40, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 16 (too low). With a spike level of 160 ng/l, the lowest concentration across the media was 84.4 ng/l, and the highest concentration across the media was 294.6 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 5 and 11 though had results with good confidence of being equal to the true values for all four media.

2.33 Perfluoro[¹³C₅]pentanoic acid (M5PFPeA)

The measurements and recoveries combined for all labs are presented in Figures B-68 and 69. Overall, the results are good, but several high outliers and a few low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M5PFPeA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-33. Of the 200 blank samples, 40, 40, 39, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 112.1 ng/l, and the highest concentration across the media was 338.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 10 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-76. Of the 159 low spike samples (only 39 wastewater), 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 128.1 ng/l, and the highest concentration across the media was 188.9 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However,

it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 10 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-119. Of the 160 high spike samples, 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 122.7 ng/l, and the highest concentration across the media was 326.9 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.34 Perfluoro[¹³C₄]butanoic acid (MPFBA)

The measurements and recoveries combined for all labs are presented in Figures B-70 and 71. Overall, the results are good, but a few high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate MPFBA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-34. Of the 200 blank samples, 38, 37, 39, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 10 (too low). With a spike level of 160 ng/l, the lowest concentration across the media was 92.2 ng/l, and the highest concentration across the media was 334.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-77. Of the 159 low spike samples (only 39 wastewater), 40, 36, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 10 (too low). With a spike level of 160 ng/l, the lowest concentration across the media was 93.2 ng/l, and the highest concentration across the media was 202.9 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured

concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 11 and 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-120. Of the 160 high spike samples, 40, 38, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 102.4 ng/l, and the highest concentration across the media was 298.9 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 16 though had results with good confidence of being equal to the true values for all four media.

2.35 Perfluoro[¹³C₈]octyl sulfonic acid (M8PFOS)

The measurements and recoveries combined for all labs are presented in Figures B-72 and 73. Overall, the results are good, but a few high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M8PFOS added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-35. Of the 200 blank samples, 39, 40, 39, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 153.1 ng/l, the lowest concentration across the media was 102.8 ng/l, and the highest concentration across the media was 324.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater and wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about one to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the low spike samples are given in Table A-78. Of the 159 low spike samples (only 39 wastewater), 40, 40, 40, and 37 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 153.1 ng/l, the lowest concentration across the media was 93.1 ng/l, and the

highest concentration across the media was 207.1 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 10 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-121. Of the 160 high spike samples, 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 153.1 ng/l, the lowest concentration across the media was 120.2 ng/l, and the highest concentration across the media was 330.7 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 6 though had results with good confidence of being equal to the true values for all four media.

2.36 *Perfluoro[1,2,3-¹³C₃]hexyl sulfonic acid (M3PFHxS)*

The measurements and recoveries combined for all labs are presented in Figures B-74 and 75. Overall, the results are good, but several high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M3PFHxS added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-36. Of the 200 blank samples, 40, 40, 39, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 151.2 ng/l, the lowest concentration across the media was 117.0 ng/l, and the highest concentration across the media was 310.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-79. Of the 159 low spike samples (only 39 wastewater), 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 151.2 ng/l, the lowest concentration across the media was 114.6 ng/l, and the highest concentration across the media was 170.3 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-122. Of the 160 high spike samples, 40, 40, 40, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 151.2 ng/l, the lowest concentration across the media was 114.7 ng/l, and the highest concentration across the media was 310.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than half the labs. However, for about two to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

2.37 *Perfluoro[2,3,4-¹³C₃]butyl sulfonic acid (M3PFBS)*

The measurements and recoveries combined for all labs are presented in Figures B-76 and 77. Overall, the results are good, but a few high outliers and several low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M3PFBS added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-37. Of the 200 blank samples, 39, 39, 38, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 148.8 ng/l, the lowest concentration across the media was 101.5 ng/l, and the highest concentration across the media was 310.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about two to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not

consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 11 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-80. Of the 159 low spike samples (only 39 wastewater), 38, 39, 37, and 37 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 148.8 ng/l, the lowest concentration across the media was 92.4 ng/l, and the highest concentration across the media was 188.1 ng/l. Lab 10 had unacceptable RSD for surface water. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for groundwater and surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-123. Of the 160 high spike samples, 39, 39, 37, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 16 (too low). With a spike level of 148.8 ng/l, the lowest concentration across the media was 114.7 ng/l, and the highest concentration across the media was 310.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.38 Perfluoro[¹³C₈]octanesulfonamide (M8FOSAI)

The measurements and recoveries combined for all labs are presented in Figures B-78 and 79. Overall, the results are good, but numerous high outliers and a few low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M8FOSAI added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-38. Of the 200 blank samples, 40, 39, 39, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 134.2 ng/l, and the highest concentration across the media was 344.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half

the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-81. Of the 159 low spike samples (only 39 wastewater), 39, 38, 39, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 160 ng/l, the lowest concentration across the media was 126.5 ng/l, and the highest concentration across the media was 220.6 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about two to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 10 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-124. Of the 160 high spike samples, 39, 39, 38, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160 ng/l, the lowest concentration across the media was 132.6 ng/l, and the highest concentration across the media was 331.5 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4, 6, 11, and 16 though had results with good confidence of being equal to the true values for all four media.

2.39 1H, 1H, 2H, 2H-perfluoro-1[1,2-¹³C₂]decyl sulfonic acid (M282FTS)

The measurements and recoveries combined for all labs are presented in Figures B-80, 81, and 82. Overall, the results are good, but several high outliers and low outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits except for high-spiked wastewater whose upper quartile level is above the acceptable limit. While all samples should have had the same concentration of the surrogate M282FTS added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-39. Of the 200 blank samples, 39, 39, 38, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 153.6

ng/l, the lowest concentration across the media was 100.0 ng/l, and the highest concentration across the media was 383.9 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-82. Of the 159 low spike samples (only 39 wastewater), 36, 38, 37, and 38 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 153.6 ng/l, the lowest concentration across the media was 101.4 ng/l, and the highest concentration across the media was 203.6 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 5 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-125. Of the 160 high spike samples, 37, 37, 37, and 30 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for wastewater was unacceptable for lab 6 (too high). With a spike level of 153.6 ng/l, the lowest concentration across the media was 115.4 ng/l, and the highest concentration across the media was 339.4 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 12 though had results with good confidence of being equal to the true values for all four media.

2.40 1H, 1H, 2H, 2H-perfluoro-1[1,2-¹³C₂]octyl sulfonic acid (M262FTS)

The measurements and recoveries combined for all labs are presented in Figures B-83, 84, and 85. Overall, the results are good, but several high outliers and a low outlier exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M262FTS added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-40. Of the 200 blank samples, 40, 40, 37, and 40 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 152.0 ng/l, the lowest concentration across the media was 106.3 ng/l, and the highest concentration across the media was 355.0 ng/l. All labs had acceptable RSD for all media. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the low spike samples are given in Table A-83. Of the 159 low spike samples (only 39 wastewater), 40, 39, 39, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 152.0 ng/l, the lowest concentration across the media was 109.1 ng/l, and the highest concentration across the media was 421.9 ng/l. Lab 11 had unacceptable RSD for surface water. The data from individual labs tended to be normally distributed as were the data when combined across all labs except for surface water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about three to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

The results of the high spike samples are given in Table A-126. Of the 160 high spike samples, 39, 38, 38, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 152.0 ng/l, the lowest concentration across the media was 119.8 ng/l, and the highest concentration across the media was 325.8 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for less than half the labs. However, for about five to seven labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4, 12, and 16 though had results with good confidence of being equal to the true values for all four media.

2.41 1H, 1H, 2H, 2H-perfluoro-1[1,2-¹³C₂]hexyl sulfonic acid (M242FTS)

The measurements and recoveries combined for all labs are presented in Figures B-86 and 87. Overall, the results are good, but numerous high outliers and outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate M242FTS added, for consistency with the analytes, the results from the

blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-41. Of the 200 blank samples, 37, 37, 35, and 39 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 4 (too low). With a spike level of 149.6 ng/l, the lowest concentration across the media was 83.8 ng/l, and the highest concentration across the media was 320.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for wastewater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-84. Of the 159 low spike samples (only 39 wastewater), 37, 38, 39, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 149.6 ng/l, the lowest concentration across the media was 0.0 ng/l, and the highest concentration across the media was 288.2 ng/l. Lab 4 had unacceptable RSD for groundwater. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to four labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-127. Of the 160 high spike samples, 36, 37, 35, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 149.6 ng/l, the lowest concentration across the media was 46.1 ng/l, and the highest concentration across the media was 285.2 ng/l. Lab 4 had unacceptable RSD for groundwater and surface water. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 16 though had results with good confidence of being equal to the true values for all four media.

2.42 *N*-ethyl-*d*5-perfluoro-1-octanesulfonamidoacetic acid (*d*5NEtFOSAA)

The measurements and recoveries combined for all labs are presented in Figures B-88 and 89. Overall, the results are good, but numerous high outliers and outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate *d*5NEtFOSAA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-41. Of the 200 blank samples, 37, 34, 33, and 34 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for surface water was unacceptable for lab 5 (too high). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 160.0 ng/l, the lowest concentration across the media was 90.1 ng/l, and the highest concentration across the media was 338.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 4 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-84. Of the 159 low spike samples (only 39 wastewater), 37, 38, 34, and 32 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 5 (too high). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 160.0 ng/l, the lowest concentration across the media was 108.4 ng/l, and the highest concentration across the media was 256.2 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater and reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 2 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-127. Of the 160 high spike samples, 35, 36, 35, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for groundwater was unacceptable for lab 5 (too high). The median recovery for reagent water was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 5 (too high). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 160.0 ng/l, the lowest concentration across the media was 98.8 ng/l, and the highest concentration across the media was 295.1 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed. Overall for all media, t-tests indicate

that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for more than half the labs. However, for about two to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration.

2.43 *N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid (d3NMeFOSAA)*

The measurements and recoveries combined for all labs are presented in Figures B-90 and 91. Overall, the results are good, but numerous high outliers and outliers exist that skew the results. The interquartile range of all recoveries are within the acceptable limits. While all samples should have had the same concentration of the surrogate d3NMeFOSAA added, for consistency with the analytes, the results from the blank, low spike, and high spike samples will be discussed separately. This also allows a pattern to be seen in case the concentration of the analytes affects the reading of the surrogates.

Results of the blank samples are given in Table A-42. Of the 200 blank samples, 36, 37, 35, and 36 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 5 (too high). With a spike level of 160.0 ng/l, the lowest concentration across the media was 100.4 ng/l, and the highest concentration across the media was 339.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to five labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 12 though had results with good confidence of being equal to the true values for all four media.

The results of the low spike samples are given in Table A-85. Of the 159 low spike samples (only 39 wastewater), 37, 35, 35, and 33 samples have acceptable recovery in the groundwater, reagent water, surface water, and wastewater, respectively. The median recovery for reagent water was unacceptable for lab 5 (too high). The median recovery for surface water was unacceptable for lab 5 (too high). The median recovery for wastewater was unacceptable for lab 5 (too high). With a spike level of 160.0 ng/l, the lowest concentration across the media was 100.2 ng/l, and the highest concentration across the media was 268.2 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for groundwater. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about three to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Lab 16 though had results with good confidence of being equal to the true values for all four media.

The results of the high spike samples are given in Table A-128. Of the 160 high spike samples, 37, 38, 38, and 35 samples have acceptable recovery in the groundwater, reagent water, surface water, and

wastewater, respectively. The median recovery was acceptable for all labs and all media. With a spike level of 160.0 ng/l, the lowest concentration across the media was 95.7 ng/l, and the highest concentration across the media was 304.0 ng/l. All labs had acceptable RSD for all media. While the data from individual labs tended to be normally distributed, the data when combined across all labs was not normally distributed except for reagent water. Overall for all media, t-tests indicate that confidence is low the measured concentrations reported by the individual labs are the same as the true spiked concentration for about half the labs. However, for about four to six labs per media, t-tests indicate that there is good confidence the reported measured concentrations are the same as the true spiked concentration. However, it was not consistent across media as to which labs had reported measured concentrations that were or were not the same as the true spiked concentration. Labs 4 and 16 though had results with good confidence of being equal to the true values for all four media.

3 SUMMARY INTERLABORATORY RESULTS

3.1 *Media*

The statistics on data sets with acceptable RSD, acceptable recovery, and acceptable t-tests were combined across analytes, spike levels, and labs to examine if the media affected the results. The results are presented in Table C-1 with the analyte and surrogate results presented separately and combined (labeled total). The recoveries for each analyte and surrogate were also graphed separately by media in Figures C-1-8. [Note: For all figures where all analytes or surrogates were graphed together, the analytes and surrogates are labeled with a number in front of their acronym. This was done to force the analytes and surrogates to graph in a specific order, mainly grouped by functional group in order of descending number of carbons.] The figures are standardized with a low recovery of 0% and a high recovery of 250%. Only a small number of outliers lie outside this range and are not visible in these graphs. The media had no discernable effect on the results.

3.2 *Spike Level*

The statistics on data sets with acceptable RSD, acceptable recovery, and acceptable t-tests were combined across analytes, media, and labs to examine if the spike level affected the results. The results are presented in Table C-2 with the analyte and surrogate results presented separately and combined (labeled total). The recoveries for each analyte and surrogate were also graphed separately by spike level in Figures C-9-13. The figures are standardized with a low recovery of 0% and a high recovery of 250%. Only a small number of outliers lie outside this range and are not visible in these graphs. The recovery of the surrogates does not change significantly between spike levels of the analytes. There is a slightly smaller percentage of acceptable recoveries with the low-spiked analytes versus the high-spiked analytes. Conversely, there is a lower percentage of analyte sets passing the t-test with the high-spiked samples versus the low-spiked samples, but the reverse is true for the surrogates. The analyte figures indicate that the low-spiked samples have a larger number of outliers than the high-spiked samples. The interquartile ranges appear to be slightly smaller with the low-spiked samples than the high-spiked samples. The surrogate figures indicate that the blank, low-spike, and high-spiked samples for the surrogates are very similar.

3.3 *Analytes and Surrogates*

The statistics on data sets with acceptable RSD, acceptable recovery, and acceptable t-tests were combined across spike levels, media, and labs to examine if the analyte or surrogate affected the results. The results are presented in Table C-3 for the analytes and in Table C-4 for the surrogate. The recoveries for each analyte and surrogate were also graphed separately in Figures C-14 and 15, respectively. The figures are standardized with a low recovery of 0% and a high recovery of 250%. Only a small number of outliers lie outside this range and are not visible in these graphs. The analytes and surrogates are graphed in descending order of carbon chain length within functional groups.

For the analytes, within the carboxylic acids, the recoveries start to decrease almost linearly above a carbon length of ten and below a carbon length of seven, although the decrease is less notable on the lower end. A similar decrease is observed with the sulfonic acids above a carbon length of seven, but the effect is less noticeable, and the effect is not clear on the lower carbon chain length. PFOSA has similar

recovery to the equivalent length carboxylic acid. The fluorotelomer sulfonic acids do not have a chain length effect with recovery, but FtS 6:2 has a clear decrease in recovery versus FtS 8:2 and FtS 4:2. With only two sulfonamidoacetic acids, no chain length effect can be discerned, but NEtFOSAA has a noticeably lower recovery than NMeFOSAA. All analytes have similar, very good RSDs, with the exception of FtS 6:2, which while still had a good RSD, was noticeably decreased from all other analyte RSDs. The t-tests mirror the recovery results in terms of carbon chain length effect and decrease in passing the test with longer and shorter chain lengths. Figure C-14 also shows the chain length effect with outliers increasing on either end of the chain length. Not shown of Figure C-14 with its maximum recovery of 250% are two PFOS and two FtS 6:2 outliers outside this range. FtS 6:2 is the only analyte whose overall interquartile range was not within acceptable limits. The sulfonamidoacetic acids appear to have the most outliers, and the fluorotelomer sulfonic acids appear to have more variance in general than other functional groups.

For the surrogates, there does not appear to be a clear chain length recovery effect like the analytes. However the longest and the shortest carboxylic acid do a slightly decreased recovery compared to the rest of the carboxylic acids. The sulfonamidoacetic acids have slightly decreased recoveries also. All surrogates have similar, very good RSDs, with the possible exception of FtS 4:2, which while still had a good RSD, was noticeably decreased from all other surrogate RSDs. The t-tests show a decrease in passing rates with higher chain lengths of shorter chain lengths similar to the analytes, but with the carboxylic acids, the pattern is not clear. Figure C-15 shows a similar chain length effect as analytes with outliers increasing on either end of the chain length. Not shown of Figure C-15 with its maximum recovery of 250% is one MFtS 6:2 outlier outside this range. Similar to the analytes, the sulfonamidoacetic acids appear to have the most outliers, and the fluorotelomer sulfonic acids appear to have more variance in general than other functional groups.

4 INTRALABORATORY RESULTS

4.1 *Lab 2*

The summary statistics for Lab 2 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-1 and 2, respectively. Only one data set for the lab had an unacceptable RSD, and it was an analyte set. Overall, the lab had good sample recoveries with 88.4% acceptable analyte recovery and 95.1% acceptable surrogate recovery. The median recoveries were fair, though 12 analyte sets and 1 surrogate set had unacceptably low median recoveries and 1 analyte set and 0 surrogate sets had unacceptably high median recoveries. Figure D-1 shows that the interquartile ranges for PFTreA and PFTriA cross the lower acceptable limit, and the interquartile range for PFDS is right on the lower acceptable limit. Also, FtS 8:2 has several high outliers. Figure D-2 shows that the interquartile range for M2PFTeDA is right on the lower acceptable limit.

4.2 *Lab 4*

The summary statistics for Lab 4 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-3 and 4, respectively. Three data sets for the lab had an unacceptable RSD, and they were surrogate sets. Overall, the lab had good sample recoveries with 88.0% acceptable analyte recovery and 92.4% acceptable surrogate recovery. The median recoveries were also good, though 5 analyte sets and 2 surrogate sets had unacceptably low median recoveries and 3 analyte sets and 0 surrogate sets had unacceptably high median recoveries. Figure D-3 shows that the interquartile range for PFTreA is right on the lower acceptable limit. Also, PFDA, FtS 4:2, NEtFOSAA, and NMeFOSAA have rather large recovery ranges. Figure D-4 shows that the interquartile range for M242FtS crosses the lower acceptable limit and has an extremely large range.

4.3 *Lab 5*

The summary statistics for Lab 5 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-5 and 6, respectively. All data sets for the lab had acceptable RSD. Overall, the lab had good sample recoveries with 87.5% acceptable analyte recovery and 91.8% acceptable surrogate recovery. The median recoveries were fair, though 0 analyte sets and 0 surrogate sets had unacceptably low median recoveries and 12 analyte sets and 14 surrogate sets had unacceptably high median recoveries. Figure D-5 shows that the interquartile ranges for PFTriA, FtS 8:2, NEtFOSAA, and NMeFOSAA cross the upper acceptable limit. Also, FtS 8:2, NEtFOSAA, and NMeFOSAA have rather large recovery ranges. Figure D-6 shows that the interquartile ranges for d5NEtFOSAA, and d3NMeFOSAA cross the upper acceptable limit and have large ranges.

4.4 *Lab 6*

The summary statistics for Lab 6 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-7 and 8, respectively. All data sets for the lab had acceptable RSD. Overall, the lab had good sample recoveries with 97.4% acceptable analyte recovery and 96.7% acceptable surrogate recovery. The median recoveries were also good, though 1 analyte set and 0

surrogate sets had unacceptably low median recoveries and 2 analyte sets and 1 surrogate set had unacceptably high median recoveries. Figure D-7 shows that the interquartile range for PFBA is right at the lower acceptable limit. Figure D-8 shows that M262FtS and M242FtS have several high outliers.

4.5 Lab 10

The summary statistics for Lab 10 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-9 and 10, respectively. Six data sets for the lab had an unacceptable RSD, and five were analyte sets and one was a surrogate set. Overall, the lab had good sample recoveries with 95.0% acceptable analyte recovery and 98.2% acceptable surrogate recovery. The median recoveries were also good, though 5 analyte sets and 2 surrogate sets had unacceptably low median recoveries and 0 analyte sets and 0 surrogate sets had unacceptably high median recoveries. Figure D-9 shows that the interquartile range for PFBA is right at the lower acceptable limit. Figure D-10 shows that M262FtS and M242FtS have several high outliers.

4.6 Lab 11

The summary statistics for Lab 11 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-11 and 12, respectively. Three data sets for the lab had an unacceptable RSD, and two were analyte sets and one was a surrogate set. Overall, the lab had good sample recoveries with 94.3% acceptable analyte recovery and 98.2% acceptable surrogate recovery. The median recoveries were also good, though 8 analyte sets and 0 surrogate sets had unacceptably low median recoveries and 0 analyte sets and 0 surrogate sets had unacceptably high median recoveries. Figure D-11 shows that the interquartile range for FtS 6:2 is completely below the lower acceptable limit. Also, the interquartile ranges are nicely small, but there are numerous outliers. Figure D-12 shows that all analytes have small interquartile ranges within the limits.

4.7 Lab 12

The summary statistics for Lab 12 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-13 and 14, respectively. All data sets for the lab had acceptable RSD. Overall, the lab had good sample recoveries with 97.5% acceptable analyte recovery and 99.6% acceptable surrogate recovery. The median recoveries were also good, though 1 analyte set and 0 surrogate sets had unacceptably low median recoveries and 0 analyte sets and 0 surrogate sets had unacceptably high median recoveries. Figure D-13 shows that the interquartile range for PFTreA and PFTriA are right at the lower acceptable limit. Figure D-14 shows that all analytes have small interquartile ranges within the limits.

4.8 Lab 16

The summary statistics for Lab 16 are presented in Table D-1. The recoveries for the analytes and surrogates are presented graphically in Figures D-15 and 16, respectively. Only one data set for the lab

had an unacceptable RSD, and it was an analyte set. Overall, the lab had good sample recoveries with 80.4% acceptable analyte recovery and 94.4% acceptable surrogate recovery. The median recoveries were fair, though 8 analyte sets and 2 surrogate sets had unacceptably low median recoveries and 14 analyte sets and 1 surrogate set had unacceptably high median recoveries. Figure D-15 shows that the interquartile range for PFTreA, PFTriA, PFDoA, PFUnA, and PFNS cross the upper acceptable limit. The interquartile range for FtS 6:2 is completely below the lower acceptable limit. Also, PFTreA, PFDoA, PFUnA, PFHxA, PFBA, and FtS 8:2 have large ranges. Figure D-16 shows that the interquartile range for M3PFBS hits the lower acceptable limit. Also, MPFDoA has a large range.

APPENDIX A STATISTICAL RESULTS BY ANALYTE AND SURROGATE

Table A-1: PFTreA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	1.125	0.000	26.184	4.614	410.083
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	10.573	6.700	12.367	2.276	21.529
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	1.322	0.000	12.367	3.615	273.564

Table A-1 (continued): PFTreA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	10.797	6.305	27.765	9.488	87.875
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	1.350	0.000	27.765	4.723	394.976
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	15.561	5.896	30.077	8.976	57.685
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	1.945	0.000	30.077	5.952	306.002

Table A-2: PFTriA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	6.253	0.000	21.396	9.483	151.652
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.782	0.000	21.396	3.689	471.973
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	3.406	0.000	8.899	4.671	137.164
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.426	0.000	8.899	1.881	441.918

Table A-2 (continued): PFTriA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	3.370	0.000	16.852	7.536	223.607
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	5.656	0.000	22.747	9.850	174.144
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	1.128	0.000	22.747	4.475	396.635
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	1.874	0.000	9.370	4.190	223.607
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	7.595	0.000	24.444	11.092	146.049
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	1.184	0.000	24.444	4.564	385.588

Table A-3: PFDoA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	5.720	0.000	16.984	8.059	140.891
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.715	0.000	16.984	3.214	449.549
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	2.825	0.000	7.898	3.914	138.513
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.353	0.000	7.898	1.570	444.672

Table A-3 (continued): PFDoA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	4.359	0.000	21.796	9.748	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.545	0.000	21.796	3.446	632.456
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	6.841	0.000	21.701	9.916	144.951
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.855	0.000	21.701	3.916	457.943

Table A-4: PFUnA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	5.773	0.000	18.651	8.449	146.359
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.723	0.000	18.651	3.326	460.874
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	2.913	0.000	7.910	4.013	137.778
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.364	0.000	7.910	1.613	443.170

Table A-4 (continued): PFUnA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	4.222	0.000	21.108	9.440	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.528	0.000	21.108	3.337	632.456
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	7.338	0.000	25.069	11.116	151.491
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.917	0.000	25.069	4.326	471.634

Table A-5: PFDA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	5.364	0.000	16.407	7.644	142.519
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.670	0.000	16.407	3.036	452.905
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	2.457	0.000	6.643	3.383	137.685
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.307	0.000	6.643	1.361	442.981

Table A-5 (continued): PFDA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	4.367	0.000	21.835	9.765	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.546	0.000	21.835	3.452	632.456
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	8.031	5.844	9.693	1.516	18.873
11	WW	5	0.000	13.932	0.000	34.036	13.239	95.025
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	2.198	0.000	10.992	4.916	223.607
20	WW	40	0.000	3.020	0.000	34.036	6.716	222.381

Table A-6: PFNA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	5.667	0.000	19.080	8.502	150.030
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.708	0.000	19.080	3.319	468.557
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	3.392	0.000	9.954	4.760	140.340
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.424	0.000	9.954	1.901	448.416

Table A-6 (continued): PFNA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	4.098	0.000	20.491	9.164	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.512	0.000	20.491	3.234	632.456
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	8.415	0.000	29.542	12.998	154.450
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	1.052	0.000	29.542	5.027	477.891

Table A-7: PFOA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	4.363	0.000	14.398	6.464	148.148
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.545	0.000	14.398	2.534	464.610
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	1.153	0.000	5.766	2.578	223.607
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.144	0.000	5.766	0.912	632.456

Table A-7 (continued): PFOA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	1.066	0.000	5.330	2.384	223.607
4	SW	5	0.000	1.487	0.000	7.433	3.324	223.607
5	SW	5	0.000	5.028	0.000	10.398	4.936	98.169
6	SW	5	0.000	7.868	7.120	8.350	0.515	6.544
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	3.098	0.000	15.492	6.928	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	2.318	0.000	15.492	4.061	175.158
2	WW	5	0.000	1.136	0.000	5.680	2.540	223.607
4	WW	5	0.000	6.329	0.000	10.086	3.974	62.795
5	WW	5	0.000	1.274	0.000	6.368	2.848	223.607
6	WW	5	0.000	3.288	0.000	5.780	3.012	91.616
10	WW	5	0.000	15.425	13.892	16.748	1.232	7.985
11	WW	5	0.000	19.359	10.135	36.878	10.804	55.808
12	WW	5	0.000	11.548	0.000	16.934	6.922	59.938
16	WW	5	0.000	19.526	16.420	21.724	2.527	12.941
20	WW	40	0.000	9.736	0.000	36.878	8.715	89.517

Table A-8: PFHpA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	2.082	0.000	10.408	4.655	223.607
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.260	0.000	10.408	1.646	632.456
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-8 (continued): PFHpA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	2.184	0.000	5.850	3.003	137.512
4	SW	5	0.000	1.088	0.000	5.441	2.433	223.607
5	SW	5	0.000	4.050	0.000	8.062	3.844	94.915
6	SW	5	0.000	5.400	5.170	5.790	0.236	4.367
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	2.487	0.000	12.434	5.561	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	1.901	0.000	12.434	3.149	165.635
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	9.926	8.989	10.837	0.749	7.546
11	WW	5	0.000	13.651	8.227	26.940	7.985	58.489
12	WW	5	0.000	6.496	0.000	11.218	5.939	91.418
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	3.759	0.000	26.940	6.136	163.233

Table A-9: PFHxA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	2.798	0.000	13.988	6.256	223.607
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	1.287	0.000	6.434	2.878	223.607
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.511	0.000	13.988	2.411	472.159
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	2.759	0.000	13.796	6.170	223.607
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.345	0.000	13.796	2.181	632.456

Table A-9 (continued): PFHxA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	2.776	0.000	8.010	3.876	139.617
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	9.211	0.000	22.840	10.526	114.271
6	SW	5	0.000	9.160	8.480	10.400	0.752	8.212
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	1.022	0.000	5.111	2.286	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	2.771	0.000	22.840	5.327	192.232
2	WW	5	0.000	1.170	0.000	5.850	2.616	223.607
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	7.943	0.000	21.400	10.931	137.617
6	WW	5	0.000	6.808	5.440	8.820	1.310	19.240
10	WW	5	0.000	51.644	46.791	55.218	3.645	7.059
11	WW	5	0.000	55.183	52.472	60.896	3.552	6.437
12	WW	5	0.000	49.206	44.030	52.300	3.176	6.455
16	WW	5	0.000	44.463	41.371	48.979	3.363	7.564
20	WW	40	0.000	27.052	0.000	60.896	24.038	88.858

Table A-10: PFPeA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	7.854	5.949	9.269	1.581	20.129
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.982	0.000	9.269	2.679	272.864
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	4.802	0.000	6.502	2.715	56.536
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.600	0.000	6.502	1.828	304.591

Table A-10 (continued): PFPeA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	7.680	6.300	8.620	0.972	12.655
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	9.896	7.054	12.924	2.435	24.608
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	3.159	0.000	8.661	4.359	137.992
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	2.592	0.000	12.924	4.142	159.826
2	WW	5	0.000	8.818	7.750	9.660	0.708	8.031
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	3.774	0.000	7.750	3.565	94.450
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	43.831	41.043	46.272	2.193	5.002
11	WW	5	0.000	40.603	35.823	43.937	3.213	7.912
12	WW	5	0.000	42.534	40.416	45.366	1.935	4.550
16	WW	5	0.000	55.681	50.173	63.389	5.360	9.626
20	WW	40	0.000	24.405	0.000	63.389	22.231	91.093

Table A-11: PFBA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	2.384	0.000	6.040	3.265	136.951
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	4.666	0.000	13.020	6.461	138.459
6	GW	5	0.000	1.052	0.000	5.260	2.352	223.607
10	GW	5	0.000	2.933	0.000	7.445	4.017	136.958
11	GW	5	0.000	1.553	0.000	7.765	3.473	223.607
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	1.574	0.000	13.020	3.372	214.280
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	2.757	0.000	6.942	3.775	136.937
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	1.106	0.000	5.529	2.473	223.607
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.483	0.000	6.942	1.727	357.579

Table A-11 (continued): PFBA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	6.144	0.000	8.090	3.454	56.219
4	SW	5	0.000	1.709	0.000	8.547	3.822	223.607
5	SW	5	0.000	4.475	0.000	14.530	6.568	146.760
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	4.193	0.000	14.118	6.291	150.029
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	4.767	0.000	13.071	6.578	137.998
20	SW	40	0.000	2.661	0.000	14.530	4.618	173.554
2	WW	5	0.000	4.864	0.000	8.370	4.449	91.462
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	10.031	8.288	11.708	1.293	12.893
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	24.965	19.241	39.339	8.379	33.561
11	WW	5	0.000	7.228	0.000	15.557	6.980	96.564
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	6.357	0.000	31.786	14.215	223.607
20	WW	40	0.000	6.681	0.000	39.339	9.852	147.472

Table A-12: PFDS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	1.143	0.000	5.717	2.557	223.607
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.143	0.000	5.717	0.904	632.456
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-12 (continued): PFDS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	1.272	0.000	6.358	2.844	223.607
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.159	0.000	6.358	1.005	632.456

Table A-13: PFNS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.000	0.000	0.000	0.000	
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.100	0.000	0.000	0.000	

Table A-13 (continued): PFNS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	0.000	0.000	0.000	0.000	
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.000	0.000	0.000	0.000	

Table A-14: PFOS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	6.852	0.000	21.983	9.991	145.798
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.857	0.000	21.983	3.938	459.705
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	4.127	0.000	11.890	5.760	139.555
12	RW	5	0.000	6.222	0.000	31.110	13.913	223.607
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	1.294	0.000	31.110	5.356	414.019

Table A-14 (continued): PFOS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	4.586	0.000	9.788	4.399	95.924
5	SW	5	0.000	13.112	9.232	16.740	2.983	22.753
6	SW	5	0.000	11.780	10.600	12.500	0.760	6.448
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	6.378	0.000	31.889	14.261	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	4.482	0.000	31.889	7.138	159.270
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	12.352	9.306	15.074	2.506	20.286
6	WW	5	0.000	10.872	9.260	11.800	0.999	9.193
10	WW	5	0.000	7.559	6.465	8.447	0.933	12.346
11	WW	5	0.000	16.630	5.359	42.474	15.851	95.311
12	WW	5	0.000	5.185	0.000	25.926	11.594	223.607
16	WW	5	0.000	1.231	0.000	6.157	2.753	223.607
20	WW	40	0.000	6.729	0.000	42.474	8.710	129.451

Table A-15: PFHpS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.000	0.000	0.000	0.000	
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-15 (continued): PFHpS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	0.000	0.000	0.000	0.000	
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.000	0.000	0.000	0.000	

Table A-16: PFHxS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	16.381	0.000	73.600	32.188	196.489
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	4.840	0.000	16.273	7.255	149.894
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	2.653	0.000	73.600	11.910	448.984
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	14.280	0.000	71.400	31.931	223.607
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	2.733	0.000	7.912	3.820	139.745
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	2.127	0.000	71.400	11.337	533.102

Table A-16 (continued): PFHxS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	2.039	0.000	10.197	4.560	223.607
5	SW	5	0.000	3.864	0.000	7.290	3.566	92.299
6	SW	5	0.000	6.124	5.540	7.470	0.775	12.659
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	3.884	0.000	19.420	8.685	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	1.989	0.000	19.420	4.046	203.414
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	1.136	0.000	5.678	2.539	223.607
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	3.538	0.000	6.436	3.249	91.837
11	WW	5	0.000	9.629	0.000	33.241	13.739	142.677
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	1.788	0.000	33.241	5.611	313.842

Table A-17: PFPeS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.000	0.000	0.000	0.000	
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-17 (continued): PFPeS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	0.000	0.000	0.000	0.000	
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.000	0.000	0.000	0.000	

Table A-18: PFBS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	3.977	0.000	13.183	5.908	148.559
5	GW	5	0.000	2.906	0.000	9.330	4.239	145.848
6	GW	5	0.000	4.250	0.000	5.740	2.390	56.245
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	1.506	0.000	7.528	3.367	223.607
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	1.580	0.000	13.183	3.214	203.424
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-18 (continued): PFBS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	2.752	0.000	8.310	3.902	141.775
6	SW	5	0.000	3.424	0.000	6.700	3.186	93.038
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.772	0.000	8.310	2.113	273.709
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	3.300	0.000	5.724	3.017	91.434
11	WW	5	0.000	3.416	0.000	11.691	5.181	151.683
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.839	0.000	11.691	2.420	288.270

Table A-19: PFOSA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.000	0.000	0.000	0.000	
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-19 (continued): PFOSA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	0.000	0.000	0.000	0.000	
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.000	0.000	0.000	0.000	

Table A-20: FtS 8:2 Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.000	0.000	0.000	0.000	
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-20 (continued): FtS 8:2 Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	0.000	0.000	0.000	0.000	
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.000	0.000	0.000	0.000	

Table A-21: FtS 6:2 Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	1.655	0.000	8.276	3.701	223.607
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	22.566	0.000	99.219	43.254	191.676
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	3.028	0.000	99.219	15.796	521.736
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	2.040	0.000	10.200	4.562	223.607
10	RW	5	0.000	23.042	0.000	91.671	38.814	168.448
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	3.135	0.000	91.671	14.669	467.861

Table A-21 (continued): FtS 6:2 Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	1.033	0.000	5.167	2.311	223.607
5	SW	5	0.000	2.770	0.000	7.410	3.808	137.492
6	SW	5	0.000	10.454	7.290	15.300	3.032	29.004
10	SW	5	0.000	56.066	0.000	163.605	75.732	135.077
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	8.790	0.000	163.605	30.498	346.942
2	WW	5	0.000	9.358	6.100	12.790	3.049	32.587
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	8.258	0.000	18.128	6.479	78.456
6	WW	5	0.000	14.480	12.800	17.900	1.974	13.633
10	WW	5	0.000	18.992	16.392	22.971	2.736	14.407
11	WW	5	0.000	4.651	0.000	8.580	4.276	91.946
12	WW	5	0.000	20.282	18.114	21.830	1.740	8.578
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	9.503	0.000	22.971	8.038	84.583

Table A-22: FtS 4:2 Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	0.000	0.000	0.000	0.000	
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.000	0.000	0.000	0.000	
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	0.000	0.000	0.000	0.000	
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.000	0.000	0.000	0.000	

Table A-22 (continued): FtS 4:2 Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	0.000	0.000	0.000	0.000	
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.000	0.000	0.000	0.000	
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	0.000	0.000	0.000	0.000	
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.000	0.000	0.000	0.000	

Table A-23: NEtFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	4.843	0.000	15.521	7.057	145.712
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.605	0.000	15.521	2.782	459.525
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	1.191	0.000	5.954	2.663	223.607
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.149	0.000	5.954	0.941	632.456

Table A-23 (continued): NEtFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	3.423	0.000	17.113	7.653	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.428	0.000	17.113	2.706	632.456
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	6.149	0.000	21.935	9.614	156.343
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.769	0.000	21.935	3.704	481.916

Table A-24: NMeFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	GW	5	0.000	0.000	0.000	0.000	0.000	
4	GW	5	0.000	0.000	0.000	0.000	0.000	
5	GW	5	0.000	0.000	0.000	0.000	0.000	
6	GW	5	0.000	0.000	0.000	0.000	0.000	
10	GW	5	0.000	0.000	0.000	0.000	0.000	
11	GW	5	0.000	4.318	0.000	12.248	6.001	138.985
12	GW	5	0.000	0.000	0.000	0.000	0.000	
16	GW	5	0.000	0.000	0.000	0.000	0.000	
20	GW	40	0.000	0.540	0.000	12.248	2.405	445.637
2	RW	5	0.000	0.000	0.000	0.000	0.000	
4	RW	5	0.000	0.000	0.000	0.000	0.000	
5	RW	5	0.000	0.000	0.000	0.000	0.000	
6	RW	5	0.000	0.000	0.000	0.000	0.000	
10	RW	5	0.000	0.000	0.000	0.000	0.000	
11	RW	5	0.000	2.490	0.000	6.414	3.413	137.035
12	RW	5	0.000	0.000	0.000	0.000	0.000	
16	RW	5	0.000	0.000	0.000	0.000	0.000	
20	RW	40	0.000	0.311	0.000	6.414	1.375	441.655

Table A-24 (continued): NMeFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation
2	SW	5	0.000	0.000	0.000	0.000	0.000	
4	SW	5	0.000	0.000	0.000	0.000	0.000	
5	SW	5	0.000	0.000	0.000	0.000	0.000	
6	SW	5	0.000	0.000	0.000	0.000	0.000	
10	SW	5	0.000	0.000	0.000	0.000	0.000	
11	SW	5	0.000	3.616	0.000	18.081	8.086	223.607
12	SW	5	0.000	0.000	0.000	0.000	0.000	
16	SW	5	0.000	0.000	0.000	0.000	0.000	
20	SW	40	0.000	0.452	0.000	18.081	2.859	632.456
2	WW	5	0.000	0.000	0.000	0.000	0.000	
4	WW	5	0.000	0.000	0.000	0.000	0.000	
5	WW	5	0.000	0.000	0.000	0.000	0.000	
6	WW	5	0.000	0.000	0.000	0.000	0.000	
10	WW	5	0.000	0.000	0.000	0.000	0.000	
11	WW	5	0.000	6.956	0.000	23.435	10.440	150.084
12	WW	5	0.000	0.000	0.000	0.000	0.000	
16	WW	5	0.000	0.000	0.000	0.000	0.000	
20	WW	40	0.000	0.870	0.000	23.435	4.075	468.671

Table A-25: M2PFTeDA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	115.522	104.210	142.210	15.220	13.175	1
4	GW	5	160.000	142.435	114.446	179.934	24.588	17.263	1
5	GW	5	160.000	131.732	79.160	174.940	42.731	32.438	1
6	GW	5	160.000	144.800	131.000	167.000	13.809	9.537	1
10	GW	5	160.000	160.274	146.485	171.077	9.046	5.644	1
11	GW	5	160.000	202.983	197.621	218.974	9.014	4.441	1
12	GW	5	160.000	134.598	105.582	171.352	24.621	18.293	1
16	GW	5	160.000	151.566	113.406	186.275	33.929	22.386	1
20	GW	40	160.000	147.989	79.160	218.974	33.099	22.366	1
2	RW	5	160.000	118.154	103.350	131.880	11.665	9.873	1
4	RW	5	160.000	110.579	86.403	152.572	24.896	22.514	1
5	RW	5	160.000	181.008	137.480	237.200	36.920	20.397	1
6	RW	5	160.000	164.400	160.000	169.000	3.912	2.379	1
10	RW	5	160.000	166.712	154.812	170.898	6.728	4.036	1
11	RW	5	160.000	197.127	176.575	208.565	13.091	6.641	1
12	RW	5	160.000	148.471	129.188	164.240	13.517	9.104	1
16	RW	5	160.000	177.994	162.878	192.247	11.828	6.645	1
20	RW	40	160.000	158.056	86.403	237.200	33.288	21.061	1

Table A-25 (continued): M2PFTeDA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	113.876	94.530	129.760	13.099	11.503	1
4	SW	5	160.000	134.357	115.137	154.315	19.398	14.438	1
5	SW	5	160.000	171.176	152.820	183.960	13.060	7.630	1
6	SW	5	160.000	152.000	100.000	274.000	69.556	45.760	1
10	SW	5	160.000	161.885	151.322	168.920	8.580	5.300	1
11	SW	5	160.000	182.702	170.463	196.522	10.792	5.907	1
12	SW	5	160.000	136.163	113.456	147.598	13.310	9.775	1
16	SW	5	160.000	169.588	135.940	201.516	26.809	15.808	1
20	SW	40	160.000	152.718	94.530	274.000	34.049	22.295	1
2	WW	5	160.000	135.472	116.750	156.390	18.143	13.392	1
4	WW	5	160.000	142.199	136.731	152.432	6.227	4.379	1
5	WW	5	160.000	161.388	133.120	176.460	16.825	10.425	1
6	WW	5	160.000	153.600	148.000	159.000	3.975	2.588	1
10	WW	5	160.000	157.890	150.455	166.001	5.681	3.598	1
11	WW	5	160.000	193.047	186.148	200.312	6.394	3.312	1
12	WW	5	160.000	142.362	124.090	152.588	12.043	8.459	1
16	WW	5	160.000	181.868	122.259	251.383	56.187	30.894	1
20	WW	40	160.000	158.478	116.750	251.383	27.879	17.591	1

Table A-26: MPFDoA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	128.882	109.370	152.820	17.257	13.390	1
4	GW	5	160.000	155.895	149.274	167.319	7.618	4.887	1
5	GW	5	160.000	167.044	152.660	181.860	11.012	6.592	1
6	GW	5	160.000	148.800	145.000	161.000	6.834	4.593	1
10	GW	5	160.000	160.595	149.023	170.989	8.065	5.022	1
11	GW	5	160.000	185.631	170.433	195.393	9.198	4.955	1
12	GW	5	160.000	150.657	138.050	167.532	14.701	9.758	1
16	GW	5	160.000	195.758	167.556	222.745	20.468	10.456	1
20	GW	40	160.000	161.658	109.370	222.745	23.228	14.368	1
2	RW	5	160.000	140.112	107.400	166.790	23.578	16.828	1
4	RW	5	160.000	143.105	127.571	167.203	15.766	11.017	1
5	RW	5	160.000	173.708	161.860	180.300	7.805	4.493	1
6	RW	5	160.000	156.800	155.000	158.000	1.643	1.048	1
10	RW	5	160.000	157.766	146.362	166.620	7.640	4.843	1
11	RW	5	160.000	173.098	162.826	178.855	6.383	3.688	1
12	RW	5	160.000	145.220	130.566	164.206	16.055	11.056	1
16	RW	5	160.000	187.127	167.287	200.603	12.965	6.929	1
20	RW	40	160.000	159.617	107.400	200.603	20.010	12.537	1

Table A-26 (continued): MPFDoA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	120.604	106.290	135.440	12.158	10.081	1
4	SW	5	160.000	175.092	166.481	180.248	6.252	3.571	1
5	SW	5	160.000	183.464	177.140	191.880	7.420	4.045	1
6	SW	5	160.000	205.000	153.000	360.000	87.261	42.566	1
10	SW	5	160.000	161.375	148.397	172.618	10.924	6.769	1
11	SW	5	160.000	177.681	170.695	184.226	5.782	3.254	1
12	SW	5	160.000	134.859	114.452	167.182	20.161	14.950	1
16	SW	5	160.000	197.114	161.126	231.838	29.993	15.216	1
20	SW	40	160.000	169.399	106.290	360.000	41.487	24.491	1
2	WW	5	160.000	138.430	118.210	164.390	16.859	12.179	1
4	WW	5	160.000	155.549	149.189	163.726	6.108	3.927	1
5	WW	5	160.000	181.024	172.720	188.320	6.353	3.509	1
6	WW	5	160.000	167.000	164.000	170.000	2.828	1.694	1
10	WW	5	160.000	157.364	152.071	167.994	6.939	4.410	1
11	WW	5	160.000	182.414	178.019	186.332	3.721	2.040	1
12	WW	5	160.000	149.586	115.656	166.680	20.868	13.951	1
16	WW	5	160.000	186.195	120.606	286.472	73.571	39.513	1
20	WW	40	160.000	164.695	115.656	286.472	30.230	18.355	1

Table A-27: M7PFUdA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	140.172	113.580	160.190	18.718	13.353	1
4	GW	5	160.000	155.001	150.860	160.364	4.268	2.754	1
5	GW	5	160.000	182.404	178.080	194.300	6.735	3.692	1
6	GW	5	160.000	151.800	148.000	161.000	5.357	3.529	1
10	GW	5	160.000	162.463	157.098	170.100	5.326	3.279	1
11	GW	5	160.000	183.312	172.764	199.246	11.516	6.282	1
12	GW	5	160.000	152.429	136.302	162.132	10.772	7.067	1
16	GW	5	160.000	171.050	142.722	193.558	22.577	13.199	1
20	GW	40	160.000	162.329	113.580	199.246	18.454	11.368	1
2	RW	5	160.000	162.570	131.660	183.010	20.407	12.553	1
4	RW	5	160.000	164.808	157.300	172.597	6.596	4.002	1
5	RW	5	160.000	179.752	159.260	200.200	18.377	10.224	1
6	RW	5	160.000	157.200	156.000	160.000	1.643	1.045	1
10	RW	5	160.000	161.412	145.518	169.829	10.026	6.211	1
11	RW	5	160.000	174.899	166.919	181.258	5.984	3.422	1
12	RW	5	160.000	145.908	138.010	161.986	9.769	6.696	1
16	RW	5	160.000	171.766	151.738	200.906	18.201	10.596	1
20	RW	40	160.000	164.789	131.660	200.906	15.591	9.461	1

Table A-27 (continued): M7PFUdA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	142.000	137.540	153.920	6.814	4.799	1
4	SW	5	160.000	174.545	164.427	185.454	8.842	5.066	1
5	SW	5	160.000	175.900	166.060	187.280	10.411	5.919	1
6	SW	5	160.000	212.400	160.000	380.000	93.986	44.249	1
10	SW	5	160.000	163.407	157.556	172.987	6.034	3.692	1
11	SW	5	160.000	170.548	161.617	179.754	6.509	3.817	1
12	SW	5	160.000	146.616	128.190	161.044	15.387	10.495	1
16	SW	5	160.000	184.443	142.169	238.201	34.822	18.880	1
20	SW	40	160.000	171.232	128.190	380.000	39.059	22.811	1
2	WW	5	160.000	152.032	129.050	193.620	26.098	17.166	1
4	WW	5	160.000	173.355	156.788	184.581	11.372	6.560	1
5	WW	5	160.000	182.152	166.100	199.000	14.513	7.967	1
6	WW	5	160.000	164.400	159.000	173.000	5.459	3.321	1
10	WW	5	160.000	158.080	153.743	162.854	4.287	2.712	1
11	WW	5	160.000	183.271	166.685	193.278	10.241	5.588	1
12	WW	5	160.000	155.998	131.456	181.010	20.455	13.112	1
16	WW	5	160.000	170.106	121.991	209.067	32.478	19.093	1
20	WW	40	160.000	167.424	121.991	209.067	19.911	11.892	1

Table A-28: M6PFDA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	131.746	121.650	139.890	6.693	5.080	1
4	GW	5	160.000	160.671	148.424	170.503	8.085	5.032	1
5	GW	5	160.000	176.904	168.600	189.160	7.622	4.309	1
6	GW	5	160.000	148.600	143.000	160.000	6.656	4.479	1
10	GW	5	160.000	171.102	158.035	181.494	8.877	5.188	1
11	GW	5	160.000	199.229	184.326	216.087	11.897	5.971	1
12	GW	5	160.000	166.518	141.048	179.354	15.169	9.109	1
16	GW	5	160.000	169.980	138.431	213.175	29.866	17.570	1
20	GW	40	160.000	165.594	121.650	216.087	22.680	13.696	1
2	RW	5	160.000	156.834	124.400	186.100	27.557	17.571	1
4	RW	5	160.000	175.679	159.011	186.636	10.112	5.756	1
5	RW	5	160.000	181.528	170.440	194.180	10.235	5.638	1
6	RW	5	160.000	152.200	149.000	155.000	2.387	1.569	1
10	RW	5	160.000	168.023	155.859	175.025	8.944	5.323	1
11	RW	5	160.000	181.906	170.181	201.534	12.472	6.856	1
12	RW	5	160.000	146.797	115.130	159.578	18.082	12.317	1
16	RW	5	160.000	184.435	160.819	205.223	16.156	8.760	1
20	RW	40	160.000	168.425	115.130	205.223	19.495	11.575	1

Table A-28 (continued): M6PFDA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	132.422	119.740	148.320	12.488	9.430	1
4	SW	5	160.000	187.860	176.004	201.512	11.322	6.027	1
5	SW	5	160.000	173.080	154.120	196.320	15.461	8.933	1
6	SW	5	160.000	205.000	160.000	351.000	81.829	39.917	1
10	SW	5	160.000	170.679	161.829	187.661	10.188	5.969	1
11	SW	5	160.000	193.237	188.212	199.170	3.915	2.026	1
12	SW	5	160.000	144.854	133.708	160.110	13.662	9.432	1
16	SW	5	160.000	155.931	140.491	178.013	15.637	10.028	1
20	SW	40	160.000	170.383	119.740	351.000	36.778	21.586	1
2	WW	5	160.000	150.772	142.080	165.400	10.080	6.686	1
4	WW	5	160.000	175.113	164.454	183.652	8.522	4.866	1
5	WW	5	160.000	178.016	163.960	203.000	15.294	8.592	1
6	WW	5	160.000	168.400	161.000	172.000	4.278	2.540	1
10	WW	5	160.000	163.115	159.833	170.208	4.077	2.500	1
11	WW	5	160.000	198.438	180.286	213.489	12.312	6.205	1
12	WW	5	160.000	160.310	147.014	173.600	11.053	6.895	1
16	WW	5	160.000	161.961	139.518	193.366	20.063	12.387	1
20	WW	40	160.000	169.516	139.518	213.489	17.435	10.285	1

Table A-29: M9PFNA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	141.672	122.260	166.030	15.846	11.185	1
4	GW	5	160.000	162.978	153.729	175.598	8.601	5.278	1
5	GW	5	160.000	169.788	159.020	178.000	9.563	5.632	1
6	GW	5	160.000	150.000	147.000	158.000	4.528	3.018	1
10	GW	5	160.000	164.430	152.472	175.204	10.957	6.664	1
11	GW	5	160.000	191.250	185.225	197.309	4.988	2.608	1
12	GW	5	160.000	152.972	145.798	160.166	5.736	3.750	1
16	GW	5	160.000	176.365	154.306	192.179	15.805	8.961	1
20	GW	40	160.000	163.682	122.260	197.309	17.677	10.799	1
2	RW	5	160.000	155.540	129.280	169.890	16.632	10.693	1
4	RW	5	160.000	179.438	168.208	203.682	14.033	7.820	1
5	RW	5	160.000	171.280	164.440	177.960	6.243	3.645	1
6	RW	5	160.000	151.600	147.000	155.000	3.209	2.117	1
10	RW	5	160.000	159.077	147.576	168.497	7.967	5.008	1
11	RW	5	160.000	183.541	177.580	189.514	4.298	2.342	1
12	RW	5	160.000	151.802	142.850	166.916	9.106	5.999	1
16	RW	5	160.000	188.847	178.267	193.028	6.104	3.232	1
20	RW	40	160.000	167.641	129.280	203.682	16.652	9.933	1

Table A-29 (continued): M9PFNA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	137.362	119.650	167.180	18.911	13.767	1
4	SW	5	160.000	186.111	182.495	189.406	2.989	1.606	1
5	SW	5	160.000	172.500	161.240	184.840	8.719	5.054	1
6	SW	5	160.000	204.400	163.000	351.000	82.099	40.166	1
10	SW	5	160.000	164.469	160.227	175.803	6.519	3.964	1
11	SW	5	160.000	192.988	184.970	199.193	6.667	3.455	1
12	SW	5	160.000	147.939	139.662	157.338	6.791	4.590	1
16	SW	5	160.000	157.648	148.076	167.630	7.571	4.803	1
20	SW	40	160.000	170.427	119.650	351.000	35.100	20.596	1
2	WW	5	160.000	138.988	122.270	161.870	16.220	11.670	1
4	WW	5	160.000	173.420	154.477	194.354	15.567	8.977	1
5	WW	5	160.000	172.520	164.280	185.640	8.280	4.799	1
6	WW	5	160.000	157.400	150.000	162.000	4.930	3.132	1
10	WW	5	160.000	164.128	157.909	176.190	6.998	4.264	1
11	WW	5	160.000	191.557	187.291	197.700	5.346	2.791	1
12	WW	5	160.000	152.188	146.652	162.850	6.409	4.211	1
16	WW	5	160.000	159.857	153.796	168.501	5.655	3.537	1
20	WW	40	160.000	163.757	122.270	197.700	17.340	10.589	1

Table A-30: M8PFOA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	158.334	139.720	192.120	19.801	12.506	1
4	GW	5	160.000	160.110	126.590	183.742	21.919	13.690	1
5	GW	5	160.000	162.640	155.380	168.920	5.950	3.659	1
6	GW	5	160.000	150.200	146.000	161.000	6.221	4.142	1
10	GW	5	160.000	169.077	157.394	179.723	8.477	5.014	1
11	GW	5	160.000	180.261	174.363	192.978	7.645	4.241	1
12	GW	5	160.000	157.983	146.902	168.842	8.197	5.188	1
16	GW	5	160.000	147.093	125.580	158.972	12.610	8.573	1
20	GW	40	160.000	160.712	125.580	192.978	15.224	9.473	1
2	RW	5	160.000	169.304	160.350	182.130	8.219	4.855	1
4	RW	5	160.000	167.803	150.555	175.619	10.167	6.059	1
5	RW	5	160.000	176.296	172.220	182.960	5.285	2.998	1
6	RW	5	160.000	149.400	144.000	152.000	3.209	2.148	1
10	RW	5	160.000	159.244	145.324	167.596	8.488	5.330	1
11	RW	5	160.000	172.534	158.848	186.396	11.544	6.691	1
12	RW	5	160.000	151.331	144.170	165.838	9.020	5.961	1
16	RW	5	160.000	170.957	143.513	190.876	21.483	12.566	1
20	RW	40	160.000	164.609	143.513	190.876	13.748	8.352	1

Table A-30 (continued): M8PFOA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	144.892	124.640	162.590	16.654	11.494	1
4	SW	5	160.000	180.084	159.478	190.572	12.000	6.664	1
5	SW	5	160.000	168.264	149.520	180.900	13.058	7.761	1
6	SW	5	160.000	199.600	164.000	337.000	76.839	38.497	1
10	SW	5	160.000	165.973	157.670	176.425	7.244	4.364	1
11	SW	5	160.000	177.204	168.913	185.428	6.816	3.847	1
12	SW	5	160.000	146.826	140.274	152.644	5.312	3.618	1
16	SW	5	160.000	150.137	125.205	174.017	18.299	12.188	1
20	SW	40	160.000	166.623	124.640	337.000	32.198	19.324	1
2	WW	5	160.000	153.182	129.590	171.790	17.507	11.429	1
4	WW	5	160.000	168.703	152.383	177.775	10.214	6.055	1
5	WW	5	160.000	169.388	156.920	184.380	10.709	6.322	1
6	WW	5	160.000	159.600	153.000	165.000	4.930	3.089	1
10	WW	5	160.000	159.962	156.541	164.874	3.294	2.059	1
11	WW	5	160.000	177.212	164.978	181.944	7.010	3.956	1
12	WW	5	160.000	160.481	138.920	171.458	12.961	8.076	1
16	WW	5	160.000	148.342	111.087	168.900	21.978	14.816	1
20	WW	40	160.000	162.109	111.087	184.380	14.394	8.879	1

Table A-31: M4PFHpA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	146.102	130.420	157.840	11.399	7.802	1
4	GW	5	160.000	160.472	147.566	179.684	13.639	8.499	1
5	GW	5	160.000	169.824	162.360	180.200	7.215	4.249	1
6	GW	5	160.000	151.600	148.000	161.000	5.367	3.540	1
10	GW	5	160.000	174.655	167.911	183.850	7.003	4.010	1
11	GW	5	160.000	167.399	163.533	175.076	4.439	2.652	1
12	GW	5	160.000	153.188	141.174	162.314	8.803	5.747	1
16	GW	5	160.000	142.811	108.335	183.265	30.581	21.414	1
20	GW	40	160.000	158.256	108.335	183.850	16.526	10.442	1
2	RW	5	160.000	172.970	138.860	185.200	19.464	11.253	1
4	RW	5	160.000	180.868	150.479	210.052	26.702	14.763	1
5	RW	5	160.000	170.536	160.500	176.080	6.490	3.805	1
6	RW	5	160.000	148.400	146.000	151.000	1.949	1.314	1
10	RW	5	160.000	166.916	145.760	180.788	13.563	8.126	1
11	RW	5	160.000	165.875	154.891	173.939	7.237	4.363	1
12	RW	5	160.000	150.440	146.486	155.946	3.995	2.656	1
16	RW	5	160.000	156.799	123.302	183.772	22.609	14.419	1
20	RW	40	160.000	164.101	123.302	210.052	17.613	10.733	1

Table A-31 (continued): M4PFHpA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	143.068	130.400	159.250	11.738	8.205	1
4	SW	5	160.000	187.383	165.538	219.054	21.572	11.512	1
5	SW	5	160.000	168.608	158.360	180.840	10.727	6.362	1
6	SW	5	160.000	197.800	156.000	342.000	80.785	40.842	1
10	SW	5	160.000	164.370	158.728	173.142	6.014	3.659	1
11	SW	5	160.000	169.354	165.904	172.385	2.617	1.545	1
12	SW	5	160.000	146.193	139.270	152.358	5.208	3.562	1
16	SW	5	160.000	135.485	119.786	155.901	16.193	11.952	1
20	SW	40	160.000	164.033	119.786	342.000	34.658	21.128	1
2	WW	5	160.000	150.674	138.710	158.830	7.454	4.947	1
4	WW	5	160.000	179.471	149.762	196.217	19.580	10.910	1
5	WW	5	160.000	169.500	164.740	177.920	5.434	3.206	1
6	WW	5	160.000	152.200	147.000	156.000	3.347	2.199	1
10	WW	5	160.000	165.443	158.148	177.176	8.084	4.886	1
11	WW	5	160.000	168.225	163.751	176.066	4.664	2.772	1
12	WW	5	160.000	153.324	138.176	168.142	12.135	7.915	1
16	WW	5	160.000	123.470	109.463	131.452	9.174	7.430	1
20	WW	40	160.000	157.788	109.463	196.217	18.581	11.776	1

Table A-32: M5PFHxA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	137.576	119.540	147.050	12.110	8.803	1
4	GW	5	160.000	161.574	143.417	177.134	14.539	8.999	1
5	GW	5	160.000	163.916	133.720	180.280	20.159	12.298	1
6	GW	5	160.000	147.800	143.000	159.000	6.458	4.369	1
10	GW	5	160.000	168.046	163.989	176.968	5.114	3.043	1
11	GW	5	160.000	159.585	150.045	169.528	8.322	5.215	1
12	GW	5	160.000	154.836	143.754	168.652	9.496	6.133	1
16	GW	5	160.000	137.937	114.016	172.996	21.748	15.767	1
20	GW	40	160.000	153.909	114.016	180.280	16.497	10.719	1
2	RW	5	160.000	164.562	142.270	179.740	14.025	8.523	1
4	RW	5	160.000	177.768	163.143	187.904	11.410	6.418	1
5	RW	5	160.000	179.608	164.820	190.820	11.832	6.588	1
6	RW	5	160.000	147.600	143.000	153.000	3.715	2.517	1
10	RW	5	160.000	160.925	152.437	167.048	6.652	4.134	1
11	RW	5	160.000	161.895	156.566	166.811	4.145	2.561	1
12	RW	5	160.000	156.984	147.150	165.610	8.019	5.108	1
16	RW	5	160.000	162.197	113.086	199.481	32.048	19.759	1
20	RW	40	160.000	163.942	113.086	199.481	16.313	9.950	1

Table A-32 (continued): M5PFHxA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	143.938	126.560	152.920	10.256	7.125	1
4	SW	5	160.000	183.114	170.211	199.636	12.861	7.024	1
5	SW	5	160.000	157.000	125.840	178.580	20.174	12.850	1
6	SW	5	160.000	192.600	158.000	316.000	69.049	35.851	1
10	SW	5	160.000	165.721	159.524	174.725	6.132	3.700	1
11	SW	5	160.000	161.187	158.437	162.633	1.631	1.012	1
12	SW	5	160.000	153.165	147.938	164.850	7.380	4.819	1
16	SW	5	160.000	135.654	111.334	176.108	26.313	19.397	1
20	SW	40	160.000	161.547	111.334	316.000	31.018	19.200	1
2	WW	5	160.000	135.730	120.670	163.110	17.575	12.949	1
4	WW	5	160.000	179.575	158.297	193.535	13.940	7.763	1
5	WW	5	160.000	172.412	157.120	197.260	15.445	8.958	1
6	WW	5	160.000	152.600	147.000	156.000	3.507	2.298	1
10	WW	5	160.000	157.901	153.651	165.662	4.704	2.979	1
11	WW	5	160.000	160.529	149.045	166.639	7.083	4.412	1
12	WW	5	160.000	150.756	137.200	157.324	8.205	5.442	1
16	WW	5	160.000	120.905	110.614	136.743	9.968	8.245	1
20	WW	40	160.000	153.801	110.614	197.260	20.527	13.346	1

Table A-33: M5PFPeA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	148.548	138.920	154.590	5.883	3.960	1
4	GW	5	160.000	164.473	162.523	166.112	1.535	0.933	1
5	GW	5	160.000	171.316	162.180	184.980	9.377	5.474	1
6	GW	5	160.000	148.400	143.000	158.000	5.683	3.830	1
10	GW	5	160.000	152.421	117.367	164.811	19.925	13.072	1
11	GW	5	160.000	147.695	141.231	153.576	4.845	3.280	1
12	GW	5	160.000	155.466	148.026	164.806	6.029	3.878	1
16	GW	5	160.000	166.755	157.099	185.714	11.161	6.693	1
20	GW	40	160.000	156.884	117.367	185.714	12.414	7.913	1
2	RW	5	160.000	169.184	150.130	177.170	11.107	6.565	1
4	RW	5	160.000	169.560	159.458	178.157	6.946	4.096	1
5	RW	5	160.000	172.848	167.700	181.560	5.182	2.998	1
6	RW	5	160.000	143.200	137.000	148.000	4.324	3.020	1
10	RW	5	160.000	150.060	112.133	171.606	22.527	15.012	1
11	RW	5	160.000	148.576	141.012	156.887	5.870	3.951	1
12	RW	5	160.000	154.907	148.820	161.540	5.357	3.458	1
16	RW	5	160.000	165.093	158.660	183.237	10.236	6.200	1
20	RW	40	160.000	159.178	112.133	183.237	14.380	9.034	1

Table A-33 (continued): M5PFPeA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	151.728	136.340	158.530	9.187	6.055	1
4	SW	5	160.000	181.928	175.790	185.125	4.344	2.388	1
5	SW	5	160.000	166.904	156.660	178.500	10.297	6.169	1
6	SW	5	160.000	198.400	162.000	338.000	78.053	39.341	1
10	SW	5	160.000	158.303	151.493	169.769	6.846	4.324	1
11	SW	5	160.000	151.862	148.574	156.598	2.996	1.973	1
12	SW	5	160.000	152.727	147.202	155.842	3.445	2.256	1
16	SW	5	160.000	157.598	153.132	164.466	4.750	3.014	1
20	SW	40	160.000	164.931	136.340	338.000	30.209	18.316	1
2	WW	5	160.000	151.464	133.940	161.700	10.730	7.084	1
4	WW	5	160.000	172.742	167.751	179.173	4.222	2.444	1
5	WW	5	160.000	169.840	158.300	182.480	8.591	5.059	1
6	WW	5	160.000	158.800	152.000	163.000	4.324	2.723	1
10	WW	5	160.000	158.495	151.075	164.426	5.562	3.509	1
11	WW	5	160.000	150.503	146.848	153.182	2.544	1.691	1
12	WW	5	160.000	152.558	142.524	160.304	6.865	4.500	1
16	WW	5	160.000	162.589	153.939	167.959	5.812	3.575	1
20	WW	40	160.000	159.624	133.940	182.480	9.883	6.192	1

Table A-34: MPFBA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	140.600	134.880	147.460	4.503	3.203	1
4	GW	5	160.000	160.779	151.183	174.995	9.029	5.616	1
5	GW	5	160.000	169.060	160.320	181.060	9.103	5.385	1
6	GW	5	160.000	134.400	130.000	148.000	7.635	5.681	1
10	GW	5	160.000	144.875	92.238	163.152	29.598	20.430	1
11	GW	5	160.000	163.741	150.615	178.220	11.034	6.739	1
12	GW	5	160.000	149.768	130.178	162.606	13.060	8.720	1
16	GW	5	160.000	150.178	111.222	174.402	24.560	16.354	1
20	GW	40	160.000	151.675	92.238	181.060	18.312	12.073	1
2	RW	5	160.000	157.348	151.580	164.400	4.843	3.078	1
4	RW	5	160.000	163.473	152.864	177.090	9.016	5.515	1
5	RW	5	160.000	173.280	155.800	179.660	9.962	5.749	1
6	RW	5	160.000	142.600	130.000	147.000	7.127	4.998	1
10	RW	5	160.000	109.594	93.048	126.882	12.755	11.639	1
11	RW	5	160.000	160.683	149.207	172.667	8.894	5.535	1
12	RW	5	160.000	143.318	126.424	162.434	13.945	9.730	1
16	RW	5	160.000	162.247	123.029	190.639	25.013	15.417	1
20	RW	40	160.000	151.568	93.048	190.639	22.093	14.577	1

Table A-34 (continued): MPFBA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	140.828	135.070	152.670	7.222	5.128	1
4	SW	5	160.000	178.732	161.795	185.852	9.666	5.408	1
5	SW	5	160.000	167.120	159.740	178.380	8.807	5.270	1
6	SW	5	160.000	195.400	158.000	334.000	77.529	39.677	1
10	SW	5	160.000	144.860	130.417	160.184	11.210	7.739	1
11	SW	5	160.000	154.174	148.163	171.583	10.060	6.525	1
12	SW	5	160.000	142.022	130.998	153.902	8.589	6.048	1
16	SW	5	160.000	139.732	114.380	159.041	22.038	15.772	1
20	SW	40	160.000	157.859	114.380	334.000	33.203	21.033	1
2	WW	5	160.000	138.066	130.370	141.510	4.435	3.212	1
4	WW	5	160.000	167.118	157.139	175.633	6.819	4.080	1
5	WW	5	160.000	169.996	161.000	177.280	6.076	3.574	1
6	WW	5	160.000	145.000	141.000	150.000	3.873	2.671	1
10	WW	5	160.000	153.440	148.830	157.462	3.226	2.103	1
11	WW	5	160.000	154.768	149.592	162.610	4.780	3.089	1
12	WW	5	160.000	149.726	135.484	160.240	9.008	6.016	1
16	WW	5	160.000	168.251	132.925	186.311	20.558	12.218	1
20	WW	40	160.000	155.796	130.370	186.311	13.790	8.852	1

Table A-35: M8PFOS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	153.120	128.544	102.770	157.410	19.812	15.412	1
4	GW	5	153.120	145.962	129.368	161.310	13.733	9.408	1
5	GW	5	153.120	164.852	127.580	179.920	21.145	12.827	1
6	GW	5	153.120	151.000	146.000	159.000	4.950	3.278	1
10	GW	5	153.120	156.241	148.830	163.735	5.508	3.526	1
11	GW	5	153.120	180.663	172.335	188.597	6.015	3.330	1
12	GW	5	153.120	150.612	138.962	157.278	7.105	4.717	1
16	GW	5	153.120	180.465	167.997	195.909	13.776	7.633	1
20	GW	40	153.120	157.292	102.770	195.909	20.469	13.013	1
2	RW	5	153.120	156.030	148.320	165.690	8.508	5.453	1
4	RW	5	153.120	159.485	151.595	169.911	7.846	4.919	1
5	RW	5	153.120	175.592	166.600	182.800	6.357	3.620	1
6	RW	5	153.120	150.400	145.000	155.000	3.647	2.425	1
10	RW	5	153.120	155.092	147.223	162.450	5.641	3.637	1
11	RW	5	153.120	184.465	172.938	192.018	7.587	4.113	1
12	RW	5	153.120	147.048	136.564	159.002	8.033	5.463	1
16	RW	5	153.120	170.711	159.732	188.537	11.487	6.729	1
20	RW	40	153.120	162.353	136.564	192.018	14.282	8.797	1

Table A-35 (continued): M8PFOS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	153.120	136.140	128.480	144.260	7.302	5.363	1
4	SW	5	153.120	169.471	150.596	190.883	14.849	8.762	1
5	SW	5	153.120	171.216	164.320	181.540	8.338	4.870	1
6	SW	5	153.120	191.200	154.000	324.000	74.355	38.889	1
10	SW	5	153.120	160.234	153.858	167.358	5.082	3.171	1
11	SW	5	153.120	178.228	162.941	189.853	11.793	6.617	1
12	SW	5	153.120	145.152	137.554	154.590	7.452	5.134	1
16	SW	5	153.120	163.242	154.264	174.214	7.393	4.529	1
20	SW	40	153.120	164.360	128.480	324.000	30.143	18.340	1
2	WW	5	153.120	142.952	123.630	169.380	17.394	12.168	1
4	WW	5	153.120	160.188	144.333	173.512	12.867	8.032	1
5	WW	5	153.120	172.352	160.520	188.040	11.123	6.453	1
6	WW	5	153.120	151.200	149.000	154.000	1.924	1.272	1
10	WW	5	153.120	159.446	155.066	164.303	4.449	2.790	1
11	WW	5	153.120	192.321	173.994	210.822	13.476	7.007	1
12	WW	5	153.120	145.532	136.354	151.814	5.854	4.023	1
16	WW	5	153.120	169.977	158.010	194.090	15.821	9.308	1
20	WW	40	153.120	161.746	123.630	210.822	18.658	11.535	1

Table A-36: M3PFHxS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	151.200	142.454	132.490	163.380	13.223	9.282	1
4	GW	5	151.200	145.244	129.894	157.832	12.377	8.522	1
5	GW	5	151.200	158.056	141.740	169.400	12.540	7.934	1
6	GW	5	151.200	148.600	144.000	159.000	6.025	4.054	1
10	GW	5	151.200	163.605	155.202	169.174	5.460	3.337	1
11	GW	5	151.200	167.805	157.377	178.802	8.873	5.287	1
12	GW	5	151.200	148.368	139.240	155.482	5.916	3.988	1
16	GW	5	151.200	156.879	147.502	172.985	10.193	6.497	1
20	GW	40	151.200	153.876	129.894	178.802	12.370	8.039	1
2	RW	5	151.200	155.754	137.290	174.450	13.188	8.467	1
4	RW	5	151.200	157.462	147.069	181.623	13.929	8.846	1
5	RW	5	151.200	162.012	152.360	169.880	7.077	4.368	1
6	RW	5	151.200	143.600	141.000	147.000	2.793	1.945	1
10	RW	5	151.200	155.977	145.632	163.283	7.551	4.841	1
11	RW	5	151.200	161.613	144.759	183.040	15.993	9.896	1
12	RW	5	151.200	148.121	138.790	154.990	7.060	4.766	1
16	RW	5	151.200	162.075	157.281	166.641	3.432	2.118	1
20	RW	40	151.200	155.827	137.290	183.040	11.109	7.129	1

Table A-36 (continued): M3PFHxS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	151.200	134.026	117.010	149.270	13.527	10.093	1
4	SW	5	151.200	161.715	143.660	176.612	15.397	9.521	1
5	SW	5	151.200	157.332	147.980	171.500	8.975	5.704	1
6	SW	5	151.200	184.600	152.000	310.000	70.106	37.977	1
10	SW	5	151.200	159.558	153.270	162.827	3.796	2.379	1
11	SW	5	151.200	172.515	160.627	183.005	9.037	5.238	1
12	SW	5	151.200	145.821	142.324	149.542	2.589	1.775	1
16	SW	5	151.200	152.979	145.775	163.645	8.386	5.482	1
20	SW	40	151.200	158.568	117.010	310.000	28.083	17.710	1
2	WW	5	151.200	143.448	131.220	165.010	13.835	9.644	1
4	WW	5	151.200	162.468	131.286	183.903	19.397	11.939	1
5	WW	5	151.200	159.320	149.660	167.260	7.824	4.911	1
6	WW	5	151.200	154.600	152.000	157.000	2.408	1.558	1
10	WW	5	151.200	161.559	159.075	166.926	3.082	1.908	1
11	WW	5	151.200	169.743	158.936	185.241	11.799	6.951	1
12	WW	5	151.200	145.337	140.022	148.918	4.577	3.149	1
16	WW	5	151.200	158.175	148.188	173.926	9.944	6.287	1
20	WW	40	151.200	156.831	131.220	185.241	12.748	8.128	1

Table A-37: M3PFBS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	148.800	125.604	120.340	132.530	4.627	3.684	1
4	GW	5	148.800	149.857	142.068	165.261	8.959	5.978	1
5	GW	5	148.800	154.472	146.300	163.120	7.416	4.801	1
6	GW	5	148.800	148.200	142.000	159.000	6.611	4.461	1
10	GW	5	148.800	146.946	112.086	159.867	19.667	13.384	1
11	GW	5	148.800	144.513	141.375	152.189	4.535	3.138	1
12	GW	5	148.800	146.498	140.766	151.330	3.838	2.620	1
16	GW	5	148.800	128.106	104.824	154.577	18.532	14.466	1
20	GW	40	148.800	143.024	104.824	165.261	14.019	9.802	1
2	RW	5	148.800	146.060	141.880	155.500	5.474	3.748	1
4	RW	5	148.800	172.312	130.753	200.214	26.878	15.599	1
5	RW	5	148.800	161.360	145.420	175.200	11.788	7.305	1
6	RW	5	148.800	139.600	132.000	144.000	4.722	3.383	1
10	RW	5	148.800	134.822	112.520	155.891	16.168	11.992	1
11	RW	5	148.800	149.566	135.940	164.553	12.334	8.247	1
12	RW	5	148.800	145.345	136.688	153.668	6.628	4.560	1
16	RW	5	148.800	147.937	110.119	165.184	21.962	14.845	1
20	RW	40	148.800	149.625	110.119	200.214	17.862	11.938	1

Table A-37 (continued): M3PFBS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	148.800	120.652	116.640	122.710	2.451	2.031	1
4	SW	5	148.800	159.712	148.940	172.535	11.382	7.127	1
5	SW	5	148.800	159.504	151.500	175.760	9.657	6.055	1
6	SW	5	148.800	183.000	146.000	310.000	71.063	38.832	1
10	SW	5	148.800	153.971	146.979	159.897	4.985	3.238	1
11	SW	5	148.800	147.499	133.258	160.863	10.849	7.356	1
12	SW	5	148.800	145.143	142.604	148.314	2.158	1.487	1
16	SW	5	148.800	127.277	101.457	156.756	21.211	16.665	1
20	SW	40	148.800	149.595	101.457	310.000	30.794	20.585	1
2	WW	5	148.800	119.176	107.790	125.450	7.372	6.186	1
4	WW	5	148.800	158.393	133.232	171.552	14.870	9.388	1
5	WW	5	148.800	156.804	147.880	171.540	9.895	6.311	1
6	WW	5	148.800	148.200	145.000	151.000	2.588	1.747	1
10	WW	5	148.800	154.656	150.692	159.324	3.836	2.481	1
11	WW	5	148.800	145.442	132.678	154.884	8.363	5.750	1
12	WW	5	148.800	144.244	138.320	148.744	4.028	2.792	1
16	WW	5	148.800	117.805	109.916	125.101	6.854	5.818	1
20	WW	40	148.800	143.090	107.790	171.552	16.880	11.797	1

Table A-38: M8FOSAI Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	146.148	138.080	155.350	8.079	5.528	1
4	GW	5	160.000	155.166	146.571	162.439	6.554	4.224	1
5	GW	5	160.000	168.080	146.160	182.980	17.909	10.655	1
6	GW	5	160.000	155.000	152.000	158.000	2.550	1.645	1
10	GW	5	160.000	168.211	161.454	174.343	4.931	2.932	1
11	GW	5	160.000	161.501	156.345	165.968	4.587	2.840	1
12	GW	5	160.000	152.989	149.494	159.906	4.645	3.036	1
16	GW	5	160.000	178.927	173.089	186.759	5.506	3.077	1
20	GW	40	160.000	160.753	138.080	186.759	12.425	7.729	1
2	RW	5	160.000	156.780	146.750	165.230	7.907	5.044	1
4	RW	5	160.000	151.053	143.969	171.941	11.741	7.773	1
5	RW	5	160.000	177.484	159.140	194.640	15.419	8.688	1
6	RW	5	160.000	158.800	154.000	163.000	3.701	2.331	1
10	RW	5	160.000	161.739	148.259	172.335	9.383	5.801	1
11	RW	5	160.000	162.066	153.381	176.478	8.952	5.524	1
12	RW	5	160.000	155.335	145.158	162.002	6.607	4.254	1
16	RW	5	160.000	170.224	160.226	186.696	10.393	6.106	1
20	RW	40	160.000	161.685	143.969	194.640	12.014	7.430	1

Table A-38 (continued): M8FOSAI Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	139.140	134.160	145.710	4.628	3.326	1
4	SW	5	160.000	162.062	153.664	175.111	8.014	4.945	1
5	SW	5	160.000	171.236	151.680	188.280	14.363	8.388	1
6	SW	5	160.000	199.600	160.000	344.000	80.909	40.536	1
10	SW	5	160.000	164.623	157.821	177.533	8.137	4.943	1
11	SW	5	160.000	159.448	147.554	166.352	7.359	4.615	1
12	SW	5	160.000	152.148	145.444	155.852	4.024	2.645	1
16	SW	5	160.000	167.570	154.272	178.451	10.063	6.005	1
20	SW	40	160.000	164.478	134.160	344.000	31.572	19.195	1
2	WW	5	160.000	146.070	136.870	156.700	8.339	5.709	1
4	WW	5	160.000	156.282	151.303	162.145	4.706	3.011	1
5	WW	5	160.000	189.260	150.540	210.400	24.397	12.891	1
6	WW	5	160.000	162.200	159.000	166.000	2.588	1.596	1
10	WW	5	160.000	160.592	154.138	166.459	4.495	2.799	1
11	WW	5	160.000	164.425	162.888	167.609	1.974	1.201	1
12	WW	5	160.000	148.725	144.328	151.456	2.993	2.012	1
16	WW	5	160.000	166.574	136.243	183.070	19.633	11.786	1
20	WW	40	160.000	161.766	136.243	210.400	16.501	10.201	1

Table A-39: M282FtS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	153.600	127.908	100.030	162.900	24.442	19.109	1
4	GW	5	153.600	160.392	134.548	182.894	19.422	12.109	1
5	GW	5	153.600	165.664	123.680	193.480	26.223	15.829	1
6	GW	5	153.600	145.200	140.000	153.000	4.868	3.353	1
10	GW	5	153.600	154.726	140.898	171.791	12.603	8.146	1
11	GW	5	153.600	169.997	159.630	181.418	9.880	5.812	1
12	GW	5	153.600	149.175	135.420	158.894	9.563	6.410	1
16	GW	5	153.600	163.725	144.150	187.364	15.961	9.749	1
20	GW	40	153.600	154.598	100.030	193.480	20.056	12.973	1
2	RW	5	153.600	152.536	128.530	172.520	16.410	10.758	1
4	RW	5	153.600	158.639	116.838	188.653	25.988	16.382	1
5	RW	5	153.600	171.112	149.000	198.660	18.704	10.931	1
6	RW	5	153.600	149.000	144.000	158.000	5.339	3.583	1
10	RW	5	153.600	159.476	145.790	191.238	18.277	11.461	1
11	RW	5	153.600	148.594	135.774	161.702	11.817	7.952	1
12	RW	5	153.600	145.146	136.754	155.296	7.813	5.383	1
16	RW	5	153.600	175.603	160.119	188.754	11.824	6.734	1
20	RW	40	153.600	157.513	116.838	198.660	17.705	11.240	1

Table A-39 (continued): M282FtS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	153.600	128.710	124.660	133.790	3.945	3.065	1
4	SW	5	153.600	147.593	133.459	156.566	11.142	7.549	1
5	SW	5	153.600	165.808	155.280	172.640	7.030	4.240	1
6	SW	5	153.600	221.944	150.220	383.880	92.832	41.827	1
10	SW	5	153.600	171.617	150.276	182.384	14.443	8.416	1
11	SW	5	153.600	164.224	144.581	176.776	12.067	7.348	1
12	SW	5	153.600	143.344	132.230	162.306	11.493	8.018	1
16	SW	5	153.600	158.469	155.135	165.053	4.177	2.636	1
20	SW	40	153.600	162.714	124.660	383.880	40.551	24.921	1
2	WW	5	153.600	180.262	129.670	216.920	32.557	18.061	1
4	WW	5	153.600	155.896	125.371	197.766	31.538	20.230	1
5	WW	5	153.600	170.768	138.660	205.000	23.533	13.781	1
6	WW	5	153.600	186.800	181.000	189.000	3.271	1.751	1
10	WW	5	153.600	150.480	140.914	173.778	13.371	8.885	1
11	WW	5	153.600	162.008	146.981	184.246	14.644	9.039	1
12	WW	5	153.600	145.353	135.594	153.856	8.282	5.698	1
16	WW	5	153.600	159.917	147.367	168.039	7.602	4.754	1
20	WW	40	153.600	163.936	125.371	216.920	22.526	13.741	1

Table A-40: M262FtS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	152.000	127.662	109.960	151.930	16.721	13.098	1
4	GW	5	152.000	158.614	154.983	161.959	3.015	1.901	1
5	GW	5	152.000	147.056	129.920	162.200	15.886	10.803	1
6	GW	5	152.000	135.200	131.000	143.000	4.604	3.406	1
10	GW	5	152.000	150.523	131.483	166.220	14.086	9.358	1
11	GW	5	152.000	130.053	122.458	140.069	8.198	6.304	1
12	GW	5	152.000	143.601	132.490	149.590	7.219	5.027	1
16	GW	5	152.000	151.268	140.630	160.003	7.935	5.246	1
20	GW	40	152.000	142.997	109.960	166.220	14.339	10.027	1
2	RW	5	152.000	153.268	141.750	171.160	11.643	7.596	1
4	RW	5	152.000	155.211	140.171	163.395	9.584	6.175	1
5	RW	5	152.000	157.332	115.380	185.900	27.502	17.480	1
6	RW	5	152.000	143.200	140.000	145.000	2.168	1.514	1
10	RW	5	152.000	165.817	151.038	192.636	16.216	9.780	1
11	RW	5	152.000	128.293	123.279	135.645	5.124	3.994	1
12	RW	5	152.000	139.145	131.990	147.190	6.041	4.341	1
16	RW	5	152.000	153.813	146.386	163.673	6.465	4.203	1
20	RW	40	152.000	149.510	115.380	192.636	16.308	10.908	1

Table A-40 (continued): M262FtS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	152.000	133.700	106.300	154.610	19.355	14.477	1
4	SW	5	152.000	165.433	147.410	182.107	16.712	10.102	1
5	SW	5	152.000	149.164	113.580	175.400	22.479	15.070	1
6	SW	5	152.000	228.400	149.000	355.000	85.392	37.387	1
10	SW	5	152.000	168.242	147.981	173.979	11.357	6.750	1
11	SW	5	152.000	135.543	131.337	138.847	2.763	2.039	1
12	SW	5	152.000	137.120	128.998	142.398	5.582	4.071	1
16	SW	5	152.000	142.159	117.666	166.170	18.120	12.747	1
20	SW	40	152.000	157.470	106.300	355.000	42.565	27.030	1
2	WW	5	152.000	143.884	119.480	161.980	19.090	13.268	1
4	WW	5	152.000	152.314	118.720	182.555	27.086	17.783	1
5	WW	5	152.000	159.852	151.620	168.800	7.580	4.742	1
6	WW	5	152.000	164.600	160.000	170.000	3.578	2.174	1
10	WW	5	152.000	146.443	133.913	168.284	13.545	9.249	1
11	WW	5	152.000	131.232	124.251	138.034	5.100	3.886	1
12	WW	5	152.000	141.890	129.950	156.402	9.736	6.862	1
16	WW	5	152.000	140.960	137.508	144.420	2.454	1.741	1
20	WW	40	152.000	147.647	118.720	182.555	16.029	10.856	1

Table A-41: M242FtS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	149.600	127.164	113.930	147.700	13.709	10.781	1
4	GW	5	149.600	163.073	96.416	255.926	71.195	43.658	1
5	GW	5	149.600	150.200	136.260	164.420	13.553	9.023	1
6	GW	5	149.600	129.400	124.000	139.000	5.683	4.392	1
10	GW	5	149.600	131.145	122.677	142.554	7.315	5.578	1
11	GW	5	149.600	134.844	131.103	139.719	3.683	2.731	1
12	GW	5	149.600	144.872	136.230	154.234	7.646	5.278	1
16	GW	5	149.600	144.273	134.535	155.141	7.876	5.459	1
20	GW	40	149.600	140.622	96.416	255.926	26.760	19.030	1
2	RW	5	149.600	159.794	127.020	172.910	18.745	11.731	1
4	RW	5	149.600	112.363	83.791	163.766	30.672	27.297	1
5	RW	5	149.600	143.144	132.780	153.980	7.800	5.449	1
6	RW	5	149.600	134.200	132.000	139.000	2.950	2.198	1
10	RW	5	149.600	153.957	141.998	161.196	7.914	5.140	1
11	RW	5	149.600	134.768	125.885	142.102	6.407	4.754	1
12	RW	5	149.600	140.815	135.690	146.556	4.490	3.189	1
16	RW	5	149.600	151.071	144.400	156.155	4.799	3.177	1
20	RW	40	149.600	141.264	83.791	172.910	18.738	13.264	1

Table A-41 (continued): M242FtS Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	149.600	118.400	105.420	131.410	10.737	9.068	1
4	SW	5	149.600	165.387	89.099	204.600	50.104	30.295	1
5	SW	5	149.600	161.500	150.080	171.440	10.503	6.504	1
6	SW	5	149.600	212.400	142.000	320.000	76.513	36.023	1
10	SW	5	149.600	151.174	140.047	163.945	9.413	6.227	1
11	SW	5	149.600	135.954	126.667	142.912	6.538	4.809	1
12	SW	5	149.600	142.308	135.118	150.084	6.486	4.558	1
16	SW	5	149.600	141.078	125.219	153.797	10.227	7.249	1
20	SW	40	149.600	153.525	89.099	320.000	40.182	26.173	1
2	WW	5	149.600	130.684	125.750	144.800	7.979	6.105	1
4	WW	5	149.600	127.901	91.027	154.984	27.740	21.689	1
5	WW	5	149.600	162.748	154.720	170.980	7.507	4.613	1
6	WW	5	149.600	158.400	154.000	163.000	3.507	2.214	1
10	WW	5	149.600	130.563	121.435	140.257	8.002	6.129	1
11	WW	5	149.600	135.661	135.013	136.356	0.635	0.468	1
12	WW	5	149.600	138.877	130.240	147.688	7.340	5.285	1
16	WW	5	149.600	141.372	124.137	156.186	12.276	8.683	1
20	WW	40	149.600	140.776	91.027	170.980	16.533	11.744	1

Table A-42: d5NEtFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	130.406	90.140	169.690	29.918	22.942	1
4	GW	5	160.000	159.868	138.718	180.067	16.982	10.622	1
5	GW	5	160.000	183.524	152.100	239.000	33.131	18.053	1
6	GW	5	160.000	146.400	141.000	158.000	6.804	4.648	1
10	GW	5	160.000	165.281	156.260	183.669	10.976	6.641	1
11	GW	5	160.000	181.981	169.844	210.404	16.769	9.215	1
12	GW	5	160.000	156.621	137.706	164.112	10.719	6.844	1
16	GW	5	160.000	178.594	169.407	184.399	5.645	3.161	1
20	GW	40	160.000	162.834	90.140	239.000	24.596	15.105	1
2	RW	5	160.000	183.332	152.970	229.280	28.390	15.486	1
4	RW	5	160.000	139.556	95.362	206.666	41.060	29.422	1
5	RW	5	160.000	191.700	162.540	204.400	17.002	8.869	1
6	RW	5	160.000	159.800	154.000	164.000	4.025	2.519	1
10	RW	5	160.000	165.553	155.878	182.076	10.021	6.053	1
11	RW	5	160.000	154.835	145.173	166.241	8.400	5.425	1
12	RW	5	160.000	149.252	135.818	159.768	10.390	6.962	1
16	RW	5	160.000	184.146	164.735	200.248	16.154	8.773	1
20	RW	40	160.000	166.022	95.362	229.280	25.578	15.406	1

Table A-42 (continued): d5NEtFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	145.290	102.920	168.180	24.826	17.087	1
4	SW	5	160.000	173.292	151.557	206.934	21.571	12.448	1
5	SW	5	160.000	213.676	183.420	246.600	24.839	11.624	1
6	SW	5	160.000	200.800	161.000	338.000	76.803	38.249	1
10	SW	5	160.000	167.939	159.464	178.881	7.400	4.407	1
11	SW	5	160.000	167.682	148.291	197.062	18.442	10.998	1
12	SW	5	160.000	149.074	138.568	160.316	8.173	5.482	1
16	SW	5	160.000	165.938	152.273	191.998	17.639	10.630	1
20	SW	40	160.000	172.961	102.920	338.000	36.808	21.281	1
2	WW	5	160.000	161.068	143.260	197.450	21.452	13.318	1
4	WW	5	160.000	144.332	106.581	182.127	29.546	20.471	1
5	WW	5	160.000	223.824	189.220	289.800	40.543	18.114	1
6	WW	5	160.000	182.400	178.000	188.000	3.782	2.073	1
10	WW	5	160.000	162.964	153.238	170.316	8.224	5.047	1
11	WW	5	160.000	181.129	159.120	211.064	19.206	10.603	1
12	WW	5	160.000	157.904	147.588	168.800	8.191	5.187	1
16	WW	5	160.000	174.582	155.980	197.524	18.454	10.570	1
20	WW	40	160.000	173.525	106.581	289.800	30.168	17.385	1

Table A-43: d3NMeFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	GW	5	160.000	122.074	107.460	137.490	12.729	10.427	1
4	GW	5	160.000	181.600	156.214	195.832	15.026	8.274	1
5	GW	5	160.000	197.476	145.840	240.600	41.402	20.965	1
6	GW	5	160.000	148.600	144.000	159.000	6.025	4.054	1
10	GW	5	160.000	164.185	158.813	172.280	5.644	3.438	1
11	GW	5	160.000	194.161	167.952	234.824	27.096	13.955	1
12	GW	5	160.000	156.701	143.962	162.958	7.772	4.960	1
16	GW	5	160.000	168.005	158.450	176.700	6.631	3.947	1
20	GW	40	160.000	166.600	107.460	240.600	29.433	17.667	1
2	RW	5	160.000	141.266	129.290	156.800	12.349	8.742	1
4	RW	5	160.000	157.949	129.918	179.418	21.112	13.366	1
5	RW	5	160.000	203.624	187.840	224.800	14.027	6.889	1
6	RW	5	160.000	156.000	151.000	160.000	3.391	2.174	1
10	RW	5	160.000	165.425	155.343	175.784	7.597	4.592	1
11	RW	5	160.000	163.034	155.795	170.744	5.383	3.302	1
12	RW	5	160.000	158.332	149.440	168.576	8.258	5.216	1
16	RW	5	160.000	170.047	154.111	194.761	16.113	9.476	1
20	RW	40	160.000	164.460	129.290	224.800	20.363	12.382	1

Table A-43 (continued): d3NMeFOSAA Blank Samples

Lab (20 = all)	Media	Number	Spike Concentration	Mean	Minimum	Maximum	Standard Deviation	Relative Standard Deviation	RSD accept (1 = yes, 0 = no)
2	SW	5	160.000	128.068	100.440	147.510	19.739	15.413	1
4	SW	5	160.000	181.563	161.940	203.102	16.718	9.208	1
5	SW	5	160.000	186.636	172.100	219.000	19.732	10.573	1
6	SW	5	160.000	197.000	157.000	339.000	79.483	40.347	1
10	SW	5	160.000	165.856	161.863	172.131	4.419	2.664	1
11	SW	5	160.000	181.572	168.830	205.775	14.621	8.053	1
12	SW	5	160.000	154.834	143.808	163.830	7.865	5.080	1
16	SW	5	160.000	158.064	144.533	177.039	14.201	8.984	1
20	SW	40	160.000	169.199	100.440	339.000	35.291	20.858	1
2	WW	5	160.000	129.330	115.390	142.550	9.929	7.677	1
4	WW	5	160.000	180.711	140.484	232.620	35.380	19.578	1
5	WW	5	160.000	198.216	159.540	226.800	25.821	13.027	1
6	WW	5	160.000	153.000	151.000	155.000	1.581	1.033	1
10	WW	5	160.000	157.545	150.765	169.222	7.255	4.605	1
11	WW	5	160.000	196.147	168.999	245.153	28.733	14.649	1
12	WW	5	160.000	160.781	151.260	173.298	10.376	6.454	1
16	WW	5	160.000	157.685	150.665	170.404	8.312	5.272	1
20	WW	40	160.000	166.677	115.390	245.153	28.421	17.052	1

Table A-44: PFTreA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	43.678	43.678	38.230	49.880	76.133	63.717	83.133	3	4.997	11.441	11.441	1	0.342	0.002
4	GW	5	60	40.916	40.916	34.722	55.594	62.544	57.871	92.657	1	8.611	21.046	21.046	1	0.071	0.008
5	GW	5	60	61.720	61.720	56.060	68.220	105.367	93.433	113.700	5	5.435	8.806	8.806	1	0.320	0.518
6	GW	5	60	47.340	47.340	42.400	54.200	78.167	70.667	90.333	5	4.279	9.040	9.040	1	0.368	0.003
10	GW	5	60	52.576	52.576	49.387	55.906	88.947	82.312	93.176	5	2.901	5.518	5.518	1	0.371	0.005
11	GW	5	60	82.562	73.560	60.457	87.464	117.975	100.761	145.773	3	10.172	12.320	13.828	1	0.906	0.041
12	GW	5	60	44.604	44.604	33.220	55.842	77.343	55.367	93.070	3	10.133	22.718	22.718	1	0.406	0.027
16	GW	5	60	58.913	58.913	33.996	68.034	107.208	56.661	113.390	4	14.099	23.932	23.932	1	0.009	0.871
20	GW	40	60	54.039	52.913	33.220	87.464	88.177	77.343	93.433	29	15.022	27.799	24.562	1	0.266	0.001
2	RW	5	60	39.752	39.752	27.420	46.270	65.933	45.700	77.117	2	7.635	19.207	19.207	1	0.193	0.004
4	RW	5	60	43.970	43.970	22.421	64.650	78.785	37.368	107.750	3	15.756	35.833	35.833	1	0.953	0.085
5	RW	5	60	64.640	64.640	45.280	83.340	108.533	75.467	138.900	4	13.510	20.900	20.900	1	0.609	0.485
6	RW	5	60	55.420	55.420	47.300	59.600	97.000	78.833	99.333	5	5.239	9.454	9.454	1	0.174	0.122
10	RW	5	60	58.721	58.721	51.678	69.679	96.037	86.130	116.132	5	6.620	11.273	11.273	1	0.184	0.688
11	RW	5	60	77.234	66.662	59.475	70.783	111.133	99.125	117.971	5	4.605	5.963	6.909	1	0.344	0.032
12	RW	5	60	48.229	48.229	43.398	59.672	74.007	72.330	99.453	5	6.919	14.345	14.345	1	0.066	0.019
16	RW	5	60	81.163	81.163	73.066	88.635	135.493	121.776	147.724	1	5.514	6.794	6.794	1	0.404	0.001
20	RW	40	60	58.641	57.319	22.421	88.635	96.636	82.254	107.750	30	16.438	28.031	26.592	1	0.853	0.273

Table A-44 (continued): PFTreA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	31.422	31.422	19.570	43.530	56.500	32.617	72.550	1	9.914	31.551	31.551	1	0.700	0.003
4	SW	5	60	51.309	51.309	43.176	62.671	79.820	71.960	104.452	5	8.208	15.997	15.997	1	0.465	0.077
5	SW	5	60	59.072	59.072	47.980	68.140	102.233	79.967	113.567	5	7.862	13.309	13.309	1	0.862	0.805
6	SW	5	60	50.680	50.680	41.400	58.000	86.333	69.000	96.667	4	6.181	12.196	12.196	1	0.891	0.028
10	SW	5	60	54.375	54.375	49.181	57.331	92.906	81.968	95.552	5	3.499	6.436	6.436	1	0.291	0.023
11	SW	5	60	73.819	63.023	58.897	66.937	108.282	98.162	111.562	5	3.712	5.028	5.890	1	0.143	0.143
12	SW	5	60	44.468	44.468	32.694	62.310	69.237	54.490	103.850	2	10.989	24.713	24.713	1	0.432	0.034
16	SW	5	60	47.757	47.757	30.754	56.762	88.018	51.257	94.603	4	10.763	22.537	22.537	1	0.241	0.064
20	SW	40	60	51.613	50.263	19.570	68.140	87.727	76.352	94.992	31	13.651	26.449	23.368	1	0.103	0.000
2	WW	5	60	39.602	39.602	23.620	52.890	68.517	39.367	88.150	2	10.979	27.722	27.722	1	0.962	0.014
4	WW	5	60	34.948	34.948	20.889	45.414	69.856	34.814	75.690	2	12.417	35.531	35.531	1	0.043	0.011
5	WW	5	60	54.400	54.400	27.360	64.300	104.933	45.600	107.167	4	15.624	28.720	28.720	1	0.018	0.468
6	WW	5	60	54.600	54.600	49.400	61.600	92.833	82.333	102.667	5	4.886	8.949	8.949	1	0.548	0.069
10	WW	4	60	54.106	54.106	52.218	57.848	88.630	87.030	96.414	4	2.639	4.878	4.878	1	0.171	0.021
11	WW	5	60	77.821	62.260	53.654	76.566	99.528	89.424	127.609	5	8.553	10.991	13.737	1	0.192	0.586
12	WW	5	60	49.626	49.626	37.426	59.644	89.253	62.377	99.407	4	9.045	18.226	18.226	1	0.589	0.062
16	WW	5	60	85.780	85.780	66.844	103.051	144.306	111.406	171.752	1	12.866	14.999	14.999	1	0.572	0.011
20	WW	39	60	56.418	54.423	20.889	103.051	90.126	84.167	99.407	27	19.251	34.122	32.389	1	0.100	0.055

Table A-45: PFTriA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	45.080	45.080	38.490	51.500	76.483	64.150	85.833	3	5.185	11.502	11.502	1	0.917	0.003
4	GW	5	60	43.792	43.792	39.479	51.376	71.382	65.799	85.626	3	4.526	10.334	10.334	1	0.245	0.001
5	GW	5	60	79.960	79.960	71.740	89.960	131.233	119.567	149.933	2	7.836	9.800	9.800	1	0.580	0.005
6	GW	5	60	50.760	50.760	47.600	54.300	84.500	79.333	90.500	5	2.522	4.969	4.969	1	0.994	0.001
10	GW	5	60	54.936	54.936	48.275	58.904	93.715	80.459	98.174	5	3.986	7.256	7.256	1	0.209	0.047
11	GW	5	60	72.481	66.228	59.212	74.361	106.593	98.686	123.934	5	6.839	9.435	10.326	1	0.314	0.111
12	GW	5	60	46.110	46.110	42.318	48.954	80.113	70.530	81.590	5	3.395	7.363	7.363	1	0.035	0.001
16	GW	5	60	72.936	72.936	57.510	95.115	124.423	95.850	158.524	4	14.552	19.951	19.951	1	0.573	0.118
20	GW	40	60	58.257	57.475	38.490	95.115	88.417	81.183	98.686	32	15.222	26.129	25.410	1	0.004	0.281
2	RW	5	60	46.758	46.758	39.420	56.010	71.317	65.700	93.350	4	7.449	15.931	15.931	1	0.209	0.016
4	RW	5	60	47.306	47.306	34.400	60.587	80.477	57.333	100.979	3	10.821	22.875	22.875	1	0.804	0.059
5	RW	5	60	71.816	71.816	57.380	88.500	118.967	95.633	147.500	4	11.539	16.067	16.067	1	0.975	0.084
6	RW	5	60	56.140	56.140	52.300	59.700	93.833	87.167	99.500	5	3.284	5.849	5.849	1	0.476	0.058
10	RW	5	60	60.204	60.204	55.276	71.856	97.115	92.127	119.760	5	6.631	11.014	11.014	1	0.017	0.948
11	RW	5	60	69.988	66.582	60.625	75.358	107.960	101.042	125.597	5	6.599	9.429	9.911	1	0.315	0.090
12	RW	5	60	45.596	45.596	37.542	58.392	74.733	62.570	97.320	3	8.453	18.538	18.538	1	0.548	0.019
16	RW	5	60	74.691	74.691	65.168	85.706	122.756	108.614	142.844	3	9.367	12.541	12.541	1	0.349	0.025
20	RW	40	60	59.062	58.637	34.400	88.500	97.199	90.812	101.158	32	13.670	23.146	22.794	1	0.462	0.523

Table A-45 (continued): PFTriA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	37.604	37.604	25.310	48.540	57.817	42.183	80.900	2	9.585	25.489	25.489	1	0.589	0.006
4	SW	5	60	46.628	46.628	24.685	58.334	83.823	41.141	97.223	4	13.008	27.897	27.897	1	0.200	0.083
5	SW	5	60	77.864	74.494	56.010	93.370	123.016	93.349	155.616	3	14.918	19.159	20.026	1	0.942	0.096
6	SW	5	60	59.140	59.140	54.900	62.700	98.333	91.500	104.500	5	2.822	4.772	4.772	1	0.730	0.533
10	SW	5	60	53.764	53.764	49.269	57.808	91.915	82.115	96.347	5	4.118	7.658	7.658	1	0.144	0.028
11	SW	5	60	66.153	60.496	57.055	63.583	100.523	95.091	105.971	5	2.496	3.773	4.126	1	0.978	0.680
12	SW	5	60	46.136	46.136	39.428	57.778	72.323	65.713	96.297	4	7.079	15.343	15.343	1	0.305	0.012
16	SW	5	60	64.736	64.736	57.109	72.256	105.240	95.182	120.427	5	5.953	9.195	9.195	1	0.854	0.150
20	SW	40	60	56.503	55.375	24.685	93.370	95.174	83.823	99.110	33	14.650	25.928	24.656	1	0.157	0.038
2	WW	5	60	45.554	45.554	35.330	50.900	81.383	58.883	84.833	3	6.807	14.943	14.943	1	0.179	0.009
4	WW	5	60	45.544	45.544	35.996	50.719	79.694	59.993	84.532	4	6.192	13.595	13.595	1	0.293	0.006
5	WW	5	60	61.108	59.234	30.466	74.686	110.277	50.777	124.477	4	17.684	28.939	29.855	1	0.284	0.927
6	WW	5	60	59.860	59.860	54.200	68.500	98.333	90.333	114.167	5	5.244	8.760	8.760	1	0.211	0.955
10	WW	4	60	56.243	56.243	51.022	60.835	94.262	85.036	101.392	4	4.189	7.448	7.448	1	0.959	0.171
11	WW	5	60	67.686	60.091	53.994	73.613	96.861	89.990	122.688	5	7.855	11.605	13.072	1	0.074	0.981
12	WW	5	60	53.297	53.297	40.556	64.578	92.597	67.593	107.630	4	8.932	16.759	16.759	1	0.908	0.169
16	WW	5	60	86.179	86.179	56.843	122.820	142.507	94.738	204.701	1	23.739	27.547	27.547	1	0.566	0.069
20	WW	39	60	59.516	58.302	30.466	122.820	92.597	85.036	98.667	30	16.750	28.143	28.183	1	0.000	0.522

Table A-46: PFDoA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	52.312	52.312	37.200	63.870	83.233	62.000	106.450	4	11.501	21.986	21.986	1	0.410	0.209
4	GW	5	60	43.530	43.530	37.827	48.470	74.796	63.045	80.783	3	4.331	9.949	9.949	1	0.739	0.001
5	GW	5	60	63.564	63.564	53.980	69.320	109.300	89.967	115.533	5	5.897	9.277	9.277	1	0.407	0.248
6	GW	5	60	50.700	50.700	47.600	53.100	84.667	79.333	88.500	5	1.984	3.913	3.913	1	0.514	0.000
10	GW	5	60	54.870	54.870	52.547	58.594	91.291	87.578	97.656	5	2.390	4.356	4.356	1	0.523	0.009
11	GW	5	60	71.688	65.967	56.751	79.253	105.644	94.585	132.088	4	9.780	13.642	14.825	1	0.428	0.244
12	GW	5	60	51.742	51.742	43.224	62.694	83.213	72.040	104.490	5	7.614	14.715	14.715	1	0.865	0.072
16	GW	5	60	87.498	87.498	67.662	115.296	146.670	112.770	192.159	2	18.236	20.841	20.841	1	0.726	0.028
20	GW	40	60	59.488	58.773	37.200	115.296	91.798	84.667	104.490	33	15.852	26.647	26.197	1	0.001	0.617
2	RW	5	60	48.746	48.746	36.580	65.160	83.983	60.967	108.600	3	11.426	23.441	23.441	1	0.655	0.092
4	RW	5	60	43.792	43.792	29.998	54.240	77.420	49.996	90.400	3	9.044	20.653	20.653	1	0.757	0.016
5	RW	5	60	63.488	63.488	51.820	80.220	105.333	86.367	133.700	4	11.481	18.084	18.084	1	0.678	0.534
6	RW	5	60	55.000	55.000	50.200	59.400	90.833	83.667	99.000	5	3.482	6.331	6.331	1	0.959	0.033
10	RW	5	60	57.549	57.549	53.463	68.675	91.428	89.106	114.458	5	6.298	10.944	10.944	1	0.009	0.433
11	RW	5	60	64.472	61.647	52.385	70.272	103.195	87.309	117.121	5	7.291	11.309	11.827	1	0.872	0.640
12	RW	5	60	51.152	51.152	42.172	61.470	79.670	70.287	102.450	5	7.811	15.271	15.271	1	0.611	0.064
16	RW	5	60	78.592	78.592	61.071	106.812	123.374	101.785	178.020	3	19.392	24.675	24.675	1	0.436	0.099
20	RW	40	60	57.849	57.496	29.998	106.812	91.137	87.309	101.785	33	14.090	24.356	24.263	1	0.008	0.263

Table A-46 (continued): PFDoA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	46.016	46.016	31.970	59.030	81.200	53.283	98.383	3	11.064	24.044	24.044	1	0.779	0.048
4	SW	5	60	45.875	45.875	41.675	53.605	72.499	69.459	89.342	4	4.811	10.486	10.486	1	0.245	0.003
5	SW	5	60	64.476	64.476	56.580	72.920	107.067	94.300	121.533	5	7.723	11.978	11.978	1	0.242	0.265
6	SW	5	60	61.740	61.740	58.700	67.100	103.167	97.833	111.833	5	3.375	5.467	5.467	1	0.278	0.313
10	SW	5	60	49.817	49.817	47.728	50.813	83.822	79.547	84.689	5	1.276	2.561	2.561	1	0.176	0.000
11	SW	5	60	62.388	58.029	54.046	62.052	94.769	90.076	103.420	5	3.535	5.666	6.092	1	0.376	0.280
12	SW	5	60	50.159	50.159	41.376	72.734	72.980	68.960	121.223	4	13.073	26.063	26.063	1	0.031	0.168
16	SW	5	60	74.687	74.687	68.456	83.998	122.364	114.093	139.997	4	5.709	7.645	7.645	1	0.350	0.005
20	SW	40	60	56.895	56.350	31.970	83.998	93.625	83.822	102.359	35	11.931	20.970	20.873	1	0.753	0.057
2	WW	5	60	49.908	49.908	41.570	55.010	86.650	69.283	91.683	4	5.437	10.895	10.895	1	0.463	0.014
4	WW	5	60	34.443	34.443	28.760	40.905	55.788	47.934	68.175	0	5.592	16.237	16.237	1	0.306	0.001
5	WW	5	60	58.592	58.592	39.420	69.380	107.067	65.700	115.633	4	12.006	20.492	20.492	1	0.297	0.806
6	WW	5	60	59.600	59.600	54.200	65.600	99.000	90.333	109.333	5	4.499	7.548	7.548	1	0.958	0.852
10	WW	4	60	52.664	52.664	46.502	59.090	87.555	77.503	98.484	4	5.303	10.069	10.069	1	0.997	0.070
11	WW	5	60	65.729	58.888	50.162	79.589	92.314	83.603	132.648	4	11.850	18.029	20.123	1	0.032	0.844
12	WW	5	60	54.300	54.300	44.974	60.650	93.147	74.957	101.083	5	6.065	11.169	11.169	1	0.710	0.103
16	WW	5	60	89.449	89.449	70.599	102.978	159.496	117.664	171.630	2	14.416	16.117	16.117	1	0.283	0.010
20	WW	39	60	58.225	57.348	28.760	102.978	91.683	86.890	99.000	28	17.065	29.309	29.338	1	0.007	0.331

Table A-47: PFUnA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	50.824	50.824	41.740	63.850	86.183	69.567	106.417	4	8.731	17.180	17.180	1	0.613	0.079
4	GW	5	60	54.618	54.618	40.996	67.405	97.601	68.327	112.342	4	10.586	19.382	19.382	1	0.702	0.319
5	GW	5	60	63.924	63.924	57.880	72.040	105.633	96.467	120.067	5	5.509	8.618	8.618	1	0.863	0.186
6	GW	5	60	52.040	52.040	49.600	56.700	84.667	82.667	94.500	5	2.790	5.361	5.361	1	0.179	0.003
10	GW	5	60	51.893	51.893	49.324	55.772	85.860	82.207	92.954	5	2.461	4.743	4.743	1	0.656	0.002
11	GW	5	60	68.236	62.464	54.982	72.916	100.643	91.637	121.527	5	7.390	10.830	11.831	1	0.636	0.497
12	GW	5	60	52.234	52.234	46.228	59.452	85.757	77.047	99.087	5	4.850	9.285	9.285	1	0.895	0.023
16	GW	5	60	72.673	72.673	55.347	82.329	128.866	92.245	137.214	3	11.200	15.411	15.411	1	0.315	0.065
20	GW	40	60	58.305	57.584	40.996	82.329	92.599	86.183	99.087	36	10.575	18.137	17.441	1	0.062	0.136
2	RW	5	60	52.708	52.708	42.830	57.780	89.600	71.383	96.300	5	5.794	10.992	10.992	1	0.122	0.048
4	RW	5	60	52.329	52.329	41.010	63.928	92.199	68.351	106.546	4	9.244	17.664	17.664	1	0.708	0.137
5	RW	5	60	73.796	73.796	62.220	84.320	127.967	103.700	140.533	3	9.280	12.576	12.576	1	0.603	0.029
6	RW	5	60	55.600	55.600	51.700	57.800	93.167	86.167	96.333	5	2.325	4.181	4.181	1	0.206	0.013
10	RW	5	60	56.083	56.083	50.579	68.491	90.401	84.299	114.152	5	7.161	12.769	12.769	1	0.054	0.288
11	RW	5	60	66.259	63.346	61.170	65.690	106.843	101.950	109.484	5	2.048	3.091	3.233	1	0.244	0.022
12	RW	5	60	50.332	50.332	44.056	58.542	87.157	73.427	97.570	5	6.110	12.140	12.140	1	0.359	0.024
16	RW	5	60	70.487	70.487	56.606	94.383	112.354	94.343	157.305	4	14.121	20.033	20.033	1	0.086	0.172
20	RW	40	60	59.699	59.335	41.010	94.383	94.505	91.808	103.700	36	11.216	18.787	18.603	1	0.015	0.705

Table A-47 (continued): PFUnA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	48.352	48.352	37.050	60.740	79.183	61.750	101.233	4	9.250	19.130	19.130	1	0.975	0.048
4	SW	5	60	57.188	57.188	46.309	67.406	94.416	77.182	112.344	5	7.803	13.645	13.645	1	0.985	0.466
5	SW	5	60	62.492	62.492	39.640	78.560	104.167	66.067	130.933	3	14.822	23.718	23.718	1	0.708	0.726
6	SW	5	60	62.460	62.460	59.900	66.700	101.500	99.833	111.167	5	2.832	4.535	4.535	1	0.277	0.124
10	SW	5	60	48.128	48.128	44.799	52.267	78.964	74.666	87.112	5	2.889	6.002	6.002	1	0.887	0.001
11	SW	5	60	65.273	61.052	56.991	63.385	102.173	94.984	105.641	5	2.462	3.771	4.032	1	0.305	0.394
12	SW	5	60	52.049	52.049	44.304	63.902	86.490	73.840	106.503	5	7.908	15.194	15.194	1	0.580	0.088
16	SW	5	60	70.448	70.448	49.838	97.694	119.415	83.064	162.823	4	17.951	25.481	25.481	1	0.755	0.263
20	SW	40	60	58.299	57.771	37.050	97.694	99.642	87.112	101.719	36	11.835	20.300	20.076	1	0.042	0.231
2	WW	5	60	51.798	51.798	45.690	61.950	82.983	76.150	103.250	5	6.863	13.250	13.250	1	0.406	0.056
4	WW	5	60	50.288	50.288	37.669	56.221	86.581	62.782	93.702	4	7.380	14.676	14.676	1	0.101	0.042
5	WW	5	60	73.604	73.604	65.680	83.860	120.467	109.467	139.767	4	6.763	9.188	9.188	1	0.855	0.011
6	WW	5	60	60.640	60.640	52.900	68.500	101.333	88.167	114.167	5	5.546	9.146	9.146	1	0.667	0.809
10	WW	4	60	51.800	51.800	47.651	57.220	85.273	79.418	95.366	4	4.399	8.493	8.493	1	0.589	0.034
11	WW	5	60	66.488	59.150	52.966	77.407	91.322	88.276	129.012	5	10.274	15.453	17.370	1	0.004	0.862
12	WW	5	60	53.882	53.882	46.870	63.436	86.847	78.117	105.727	5	6.694	12.424	12.424	1	0.727	0.110
16	WW	5	60	68.835	68.835	48.071	95.937	113.897	80.119	159.896	4	17.550	25.495	25.495	1	0.734	0.323
20	WW	39	60	59.869	58.928	37.669	95.937	93.702	88.276	102.167	36	11.916	19.903	19.745	1	0.021	0.568

Table A-48: PFDA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	51.164	51.164	40.760	62.370	87.633	67.933	103.950	4	8.765	17.132	17.132	1	0.826	0.087
4	GW	5	60	59.010	59.010	50.601	71.236	98.896	84.336	118.727	5	8.098	13.723	13.723	1	0.654	0.798
5	GW	5	60	65.520	65.520	55.220	74.400	111.767	92.033	124.000	5	7.015	10.706	10.706	1	0.859	0.153
6	GW	5	60	49.640	49.640	47.800	54.400	80.667	79.667	90.667	5	2.766	5.573	5.573	1	0.036	0.001
10	GW	5	60	57.960	57.960	53.992	61.112	96.024	89.987	101.853	5	2.891	4.988	4.988	1	0.729	0.190
11	GW	5	60	72.819	67.455	59.204	77.946	105.264	98.673	129.910	5	8.528	11.711	12.642	1	0.198	0.122
12	GW	5	60	49.655	49.655	43.786	58.992	75.170	72.977	98.320	5	6.989	14.075	14.075	1	0.097	0.030
16	GW	5	60	70.885	70.885	54.358	107.022	108.155	90.597	178.370	4	21.086	29.747	29.747	1	0.092	0.313
20	GW	40	60	59.582	58.911	40.760	107.022	96.448	90.597	101.853	38	12.550	21.063	20.265	1	0.001	0.567
2	RW	5	60	53.150	53.150	47.290	57.730	91.867	78.817	96.217	5	4.263	8.021	8.021	1	0.535	0.023
4	RW	5	60	75.747	75.747	51.664	101.489	120.298	86.106	169.148	3	18.605	24.562	24.562	1	0.968	0.131
5	RW	5	60	66.492	66.492	55.520	87.920	111.033	92.533	146.533	4	13.183	19.827	19.827	1	0.166	0.333
6	RW	5	60	55.540	55.540	51.100	59.900	93.500	85.167	99.833	5	3.224	5.804	5.804	1	0.930	0.036
10	RW	5	60	58.664	58.664	50.784	69.845	95.569	84.640	116.408	5	6.961	11.866	11.866	1	0.451	0.690
11	RW	5	60	67.498	65.041	56.369	72.278	110.366	93.949	120.463	5	6.127	9.078	9.421	1	0.946	0.140
12	RW	5	60	49.275	49.275	44.416	58.226	77.667	74.027	97.043	5	5.824	11.819	11.819	1	0.253	0.015
16	RW	5	60	66.029	66.029	48.785	79.196	115.980	81.309	131.994	4	11.400	17.265	17.265	1	0.766	0.302
20	RW	40	60	61.549	61.242	44.416	101.489	95.893	92.533	110.366	36	12.330	20.032	19.929	1	0.003	0.524

Table A-48 (continued): PFDA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	49.514	49.514	44.090	57.570	83.450	73.483	95.950	5	5.368	10.842	10.842	1	0.539	0.012
4	SW	5	60	60.756	60.756	34.158	79.095	98.654	56.930	131.825	3	18.589	30.597	30.597	1	0.529	0.932
5	SW	5	60	67.808	67.808	60.540	76.240	111.567	100.900	127.067	5	6.131	9.042	9.042	1	0.955	0.047
6	SW	5	60	61.220	61.220	56.800	64.200	104.500	94.667	107.000	5	3.283	5.362	5.362	1	0.268	0.453
10	SW	5	60	52.881	52.881	49.504	57.807	85.569	82.507	96.346	5	3.520	6.656	6.656	1	0.408	0.011
11	SW	5	60	66.726	62.359	59.671	64.381	104.622	99.452	107.301	5	1.717	2.573	2.754	1	0.592	0.037
12	SW	5	60	49.513	49.513	42.430	61.978	80.780	70.717	103.297	5	7.719	15.589	15.589	1	0.382	0.038
16	SW	5	60	62.555	62.555	52.526	73.699	100.477	87.543	122.832	5	8.253	13.193	13.193	1	0.894	0.527
20	SW	40	60	58.872	58.326	34.158	79.095	98.244	89.450	104.500	38	10.302	17.499	17.100	1	0.817	0.295
2	WW	5	60	58.526	58.526	51.330	67.040	95.317	85.550	111.733	5	6.136	10.485	10.485	1	0.920	0.620
4	WW	5	60	55.429	55.429	33.154	72.740	96.253	55.257	121.234	4	14.921	26.919	26.919	1	0.909	0.531
5	WW	5	60	70.336	70.336	56.140	79.860	124.233	93.567	133.100	3	10.600	15.071	15.071	1	0.274	0.095
6	WW	5	60	61.840	61.840	54.000	70.000	103.500	90.000	116.667	5	5.743	9.287	9.287	1	0.845	0.513
10	WW	4	60	61.701	53.670	46.584	58.596	91.250	77.640	97.661	4	5.168	8.376	9.630	1	0.661	0.092
11	WW	5	60	71.669	57.737	51.596	73.659	90.292	85.994	122.766	5	9.070	12.655	15.709	1	0.019	0.607
12	WW	5	60	58.020	58.020	45.250	74.940	101.080	75.417	124.900	5	12.735	21.949	21.949	1	0.416	0.746
16	WW	5	60	65.593	63.394	49.531	82.240	101.287	82.552	137.067	4	14.439	22.014	22.777	1	0.419	0.627
20	WW	39	60	62.920	60.028	33.154	82.240	97.661	91.717	104.833	35	11.141	17.707	18.015	1	0.433	0.987

Table A-49: PFNA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	52.660	52.660	45.500	62.240	82.633	75.833	103.733	5	7.685	14.593	14.593	1	0.225	0.100
4	GW	5	60	63.234	63.234	53.291	72.556	105.078	88.818	120.927	5	7.482	11.833	11.833	1	0.986	0.389
5	GW	5	60	60.268	60.268	53.780	67.100	104.267	89.633	111.833	5	6.077	10.083	10.083	1	0.229	0.926
6	GW	5	60	50.920	50.920	48.300	55.000	83.667	80.500	91.667	5	2.791	5.480	5.480	1	0.514	0.002
10	GW	5	60	54.036	54.036	49.433	57.503	89.472	82.388	95.839	5	3.346	6.191	6.191	1	0.612	0.016
11	GW	5	60	74.066	68.399	58.748	81.614	105.988	97.913	136.023	4	10.083	13.613	14.741	1	0.285	0.136
12	GW	5	60	50.492	50.492	42.978	54.666	87.130	71.630	91.110	5	4.774	9.454	9.454	1	0.343	0.011
16	GW	5	60	63.222	63.222	53.326	86.060	97.281	88.877	143.434	4	13.020	20.594	20.594	1	0.020	0.610
20	GW	40	60	58.612	57.904	42.978	86.060	93.378	88.877	99.083	38	10.362	17.680	16.249	1	0.007	0.167
2	RW	5	60	58.198	58.198	48.130	64.080	99.617	80.217	106.800	5	5.961	10.243	10.243	1	0.113	0.536
4	RW	5	60	61.919	61.919	59.399	67.367	100.581	98.998	112.278	5	3.370	5.443	5.443	1	0.134	0.272
5	RW	5	60	66.356	66.356	57.940	71.720	114.933	96.567	119.533	5	5.898	8.888	8.888	1	0.342	0.074
6	RW	5	60	54.020	54.020	49.800	58.000	89.667	83.000	96.667	5	2.969	5.495	5.495	1	0.902	0.011
10	RW	5	60	56.245	56.245	50.714	69.711	90.460	84.524	116.186	5	7.748	13.775	13.775	1	0.036	0.339
11	RW	5	60	66.660	63.268	58.221	69.968	99.964	97.035	116.613	5	5.542	8.313	8.759	1	0.098	0.258
12	RW	5	60	50.096	50.096	42.762	53.956	85.267	71.270	89.927	5	4.285	8.553	8.553	1	0.103	0.007
16	RW	5	60	55.585	55.585	45.942	64.896	98.739	76.571	108.160	5	8.265	14.869	14.869	1	0.330	0.298
20	RW	40	60	58.635	58.211	42.762	71.720	98.644	90.460	99.964	40	7.667	13.076	12.518	1	0.423	0.129

Table A-49 (continued): PFNA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	48.426	48.426	38.800	56.340	82.333	64.667	93.900	4	7.735	15.973	15.973	1	0.472	0.029
4	SW	5	60	62.855	62.855	53.197	79.167	104.356	88.662	131.944	4	10.612	16.884	16.884	1	0.406	0.580
5	SW	5	60	65.364	65.364	57.640	77.200	104.833	96.067	128.667	5	7.483	11.449	11.449	1	0.568	0.184
6	SW	5	60	62.200	62.200	59.900	64.900	102.000	99.833	108.167	5	2.249	3.616	3.616	1	0.259	0.094
10	SW	5	60	49.737	49.737	45.291	53.754	82.207	75.485	89.590	5	3.894	7.829	7.829	1	0.308	0.004
11	SW	5	60	66.667	62.568	55.262	66.103	109.472	92.103	110.172	5	4.789	7.184	7.654	1	0.081	0.297
12	SW	5	60	52.088	52.088	47.920	58.600	85.280	79.867	97.667	5	3.933	7.551	7.551	1	0.205	0.011
16	SW	5	60	53.110	53.110	44.482	60.822	93.296	74.136	101.369	5	7.600	14.311	14.311	1	0.206	0.113
20	SW	40	60	57.556	57.044	38.800	79.167	94.983	89.398	101.369	38	9.224	16.026	15.422	1	0.729	0.040
2	WW	5	60	54.788	54.788	47.390	63.900	92.800	78.983	106.500	5	6.197	11.311	11.311	1	0.803	0.133
4	WW	5	60	62.061	62.061	53.938	69.924	102.631	89.896	116.539	5	6.043	9.737	9.737	1	0.996	0.488
5	WW	5	60	65.784	65.784	57.640	72.380	108.167	96.067	120.633	5	6.033	9.170	9.170	1	0.700	0.099
6	WW	5	60	57.860	57.860	52.600	65.800	95.833	87.667	109.667	5	4.869	8.414	8.414	1	0.332	0.381
10	WW	4	60	54.097	54.097	51.185	56.748	90.379	85.308	94.580	4	2.302	4.255	4.255	1	0.948	0.014
11	WW	5	60	70.533	62.117	52.360	80.357	99.761	87.267	133.928	4	10.795	15.305	17.378	1	0.186	0.684
12	WW	5	60	55.642	55.642	48.472	60.942	95.727	80.787	101.570	5	5.743	10.321	10.321	1	0.247	0.165
16	WW	5	60	59.352	59.352	48.153	76.830	91.467	80.255	128.051	5	11.153	18.791	18.791	1	0.505	0.903
20	WW	39	60	60.166	59.087	47.390	80.357	95.833	92.800	102.631	38	8.567	14.239	12.951	1	0.052	0.461

Table A-50: PFOA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	53.026	53.026	36.560	68.610	84.017	60.933	114.350	4	12.813	24.164	24.164	1	0.851	0.290
4	GW	5	60	65.384	65.384	60.986	71.022	107.978	101.643	118.370	5	3.901	5.966	5.966	1	0.907	0.037
5	GW	5	60	54.968	54.968	42.240	62.500	95.333	70.400	104.167	5	8.271	15.046	15.046	1	0.460	0.245
6	GW	5	60	55.120	55.120	53.200	59.700	90.000	88.667	99.500	5	2.632	4.775	4.775	1	0.036	0.014
10	GW	5	60	57.911	57.911	52.560	61.373	97.127	87.600	102.288	5	3.249	5.610	5.610	1	0.253	0.224
11	GW	5	60	70.737	66.374	59.224	76.952	106.133	98.706	128.253	5	7.665	10.836	11.548	1	0.396	0.137
12	GW	5	60	55.234	55.234	49.540	59.654	90.957	82.567	99.423	5	3.927	7.109	7.109	1	0.731	0.053
16	GW	5	60	66.440	66.440	58.769	74.411	108.237	97.948	124.019	5	5.995	9.024	9.024	1	0.927	0.074
20	GW	40	60	59.852	59.307	36.560	76.952	99.065	95.333	104.167	39	8.849	14.784	13.931	1	0.792	0.599
2	RW	5	60	63.212	63.212	52.760	71.070	111.817	87.933	118.450	5	8.990	14.223	14.223	1	0.093	0.469
4	RW	5	60	64.679	64.679	57.924	72.477	103.846	96.540	120.795	5	6.108	9.444	9.444	1	0.541	0.162
5	RW	5	60	63.620	63.620	54.960	71.640	108.133	91.600	119.400	5	6.465	10.161	10.161	1	0.957	0.279
6	RW	5	60	53.260	53.260	51.700	55.400	87.833	86.167	92.333	5	1.698	3.188	3.188	1	0.248	0.001
10	RW	5	60	56.283	56.283	50.419	70.309	88.505	84.031	117.182	5	8.009	14.231	14.231	1	0.025	0.358
11	RW	5	60	66.916	65.763	60.270	71.679	107.951	100.451	119.464	5	4.197	6.272	6.382	1	0.891	0.037
12	RW	5	60	50.442	50.442	44.388	62.246	81.910	73.980	103.743	5	7.122	14.120	14.120	1	0.226	0.040
16	RW	5	60	62.636	62.636	50.870	75.305	105.894	84.783	125.508	5	8.921	14.242	14.242	1	0.925	0.545
20	RW	40	60	60.131	59.987	44.388	75.305	99.975	91.167	107.746	40	8.401	13.971	13.819	1	0.141	0.992

Table A-50 (continued): PFOA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	58.486	57.420	43.004	86.114	87.840	71.673	143.523	4	16.648	28.464	28.993	1	0.075	0.746
4	SW	5	60	67.868	66.381	60.521	75.703	111.189	100.868	126.172	5	6.217	9.160	9.365	1	0.442	0.083
5	SW	5	60	72.984	67.956	53.812	80.192	113.653	89.687	133.653	4	11.155	15.285	16.416	1	0.687	0.186
6	SW	5	60	70.520	62.652	59.132	65.832	105.887	98.553	109.720	5	2.858	4.052	4.561	1	0.549	0.107
10	SW	5	60	50.792	50.792	46.220	53.451	87.701	77.034	89.085	5	3.150	6.202	6.202	1	0.181	0.003
11	SW	5	60	65.064	61.965	54.259	70.246	105.255	90.432	117.077	5	6.560	10.082	10.586	1	0.768	0.540
12	SW	5	60	53.998	53.998	49.286	63.422	86.767	82.143	105.703	5	5.492	10.172	10.172	1	0.097	0.071
16	SW	5	60	61.772	61.772	53.645	71.338	99.592	89.409	118.897	5	6.783	10.981	10.981	1	0.883	0.591
20	SW	40	60	62.685	60.367	43.004	86.114	99.989	89.687	105.887	38	10.726	17.111	15.765	1	0.223	0.809
2	WW	5	60	66.836	65.700	52.374	80.734	104.857	87.290	134.557	4	12.831	19.198	19.530	1	0.357	0.377
4	WW	5	60	68.420	62.091	54.904	67.479	102.759	91.507	112.466	5	4.728	6.910	7.614	1	0.708	0.379
5	WW	5	60	65.524	64.250	58.166	66.686	108.544	96.944	111.144	5	3.482	5.315	5.420	1	0.025	0.052
6	WW	5	60	63.140	59.852	54.812	65.112	98.353	91.353	108.520	5	3.762	5.958	6.286	1	0.859	0.934
10	WW	4	60	66.120	50.695	47.885	54.057	84.031	79.808	90.096	4	2.794	4.226	5.512	1	0.715	0.007
11	WW	5	60	76.875	57.517	45.080	70.926	97.389	75.133	118.210	5	9.316	12.119	16.198	1	0.812	0.583
12	WW	5	60	69.832	58.284	52.840	63.316	95.239	88.066	105.526	5	4.817	6.897	8.264	1	0.272	0.470
16	WW	5	60	80.297	60.771	56.179	70.739	97.987	93.632	117.898	5	6.008	7.482	9.886	1	0.146	0.788
20	WW	39	60	69.721	60.131	45.080	80.734	98.353	94.005	105.439	38	8.402	12.051	12.451	1	0.483	0.914

Table A-51: PFHpA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	53.564	53.564	44.080	66.810	91.700	73.467	111.350	5	9.304	17.369	17.369	1	0.539	0.197
4	GW	5	60	64.823	64.823	59.362	70.622	105.971	98.937	117.704	5	5.230	8.068	8.068	1	0.261	0.108
5	GW	5	60	60.028	60.028	54.620	65.460	102.867	91.033	109.100	5	4.744	7.903	7.903	1	0.383	0.990
6	GW	5	60	51.400	51.400	49.700	54.400	84.667	82.833	90.667	5	1.976	3.845	3.845	1	0.354	0.001
10	GW	5	60	56.465	56.465	49.196	60.829	96.201	81.994	101.381	5	4.339	7.684	7.684	1	0.176	0.143
11	GW	5	60	65.063	62.981	53.543	74.959	98.195	89.238	124.932	5	9.266	14.242	14.712	1	0.381	0.512
12	GW	5	60	52.704	52.704	47.392	58.556	88.753	78.987	97.593	5	4.067	7.717	7.717	1	0.845	0.016
16	GW	5	60	59.815	59.815	48.155	73.151	95.179	80.259	121.918	5	10.005	16.726	16.726	1	0.833	0.969
20	GW	40	60	57.983	57.723	44.080	74.959	94.757	90.094	98.937	40	7.900	13.625	13.320	1	0.337	0.069
2	RW	5	60	60.464	60.464	55.240	66.460	97.283	92.067	110.767	5	5.133	8.490	8.490	1	0.235	0.850
4	RW	5	60	66.554	66.554	58.156	69.945	113.496	96.927	116.575	5	4.813	7.232	7.232	1	0.031	0.038
5	RW	5	60	67.860	67.860	64.140	71.800	113.067	106.900	119.667	5	2.726	4.018	4.018	1	0.684	0.003
6	RW	5	60	52.680	52.680	48.400	56.700	86.000	80.667	94.500	5	3.322	6.306	6.306	1	0.699	0.008
10	RW	5	60	56.823	56.823	50.600	65.459	93.472	84.334	109.098	5	5.476	9.636	9.636	1	0.662	0.264
11	RW	5	60	62.669	62.669	59.731	68.577	101.462	99.552	114.295	5	3.596	5.738	5.738	1	0.161	0.172
12	RW	5	60	50.075	50.075	46.086	55.120	81.650	76.810	91.867	5	3.378	6.746	6.746	1	0.779	0.003
16	RW	5	60	55.563	55.563	44.871	70.737	91.785	74.785	117.895	5	9.533	17.157	17.157	1	0.545	0.357
20	RW	40	60	59.086	59.086	44.871	71.800	96.395	92.067	106.900	40	7.661	12.966	12.966	1	0.072	0.455

Table A-51 (continued): PFHpA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	53.860	51.676	46.726	65.976	81.277	77.877	109.960	5	8.047	14.941	15.573	1	0.004	0.082
4	SW	5	60	69.625	68.537	54.517	80.554	116.905	90.862	134.256	4	9.425	13.537	13.752	1	0.811	0.113
5	SW	5	60	68.012	63.962	51.470	71.470	109.617	85.784	119.117	5	7.714	11.342	12.060	1	0.464	0.315
6	SW	5	60	63.500	58.100	56.300	59.900	97.167	93.833	99.833	5	1.398	2.202	2.407	1	0.970	0.038
10	SW	5	60	50.719	50.719	47.985	52.670	85.758	79.976	87.783	5	2.169	4.276	4.276	1	0.219	0.001
11	SW	5	60	60.226	57.740	52.362	62.157	97.107	87.270	103.594	5	3.826	6.354	6.627	1	0.936	0.257
12	SW	5	60	54.866	54.866	51.136	65.334	87.463	85.227	108.890	5	5.922	10.794	10.794	1	0.008	0.125
16	SW	5	60	53.097	53.097	41.362	75.604	85.530	68.936	126.007	4	13.370	25.179	25.179	1	0.171	0.313
20	SW	40	60	59.238	57.337	41.362	80.554	91.887	87.142	99.833	38	9.614	16.229	15.657	1	0.098	0.068
2	WW	5	60	59.050	59.050	52.950	64.540	98.267	88.250	107.567	5	4.371	7.402	7.402	1	0.992	0.652
4	WW	5	60	68.554	68.554	61.796	74.366	115.012	102.994	123.943	5	4.481	6.536	6.536	1	0.541	0.013
5	WW	5	60	67.352	67.352	56.400	75.320	118.467	94.000	125.533	5	7.881	11.701	11.701	1	0.448	0.105
6	WW	5	60	60.360	60.360	53.600	64.900	101.833	89.333	108.167	5	4.131	6.845	6.845	1	0.263	0.855
10	WW	4	60	65.024	55.098	53.370	56.193	92.357	88.951	93.655	4	1.220	1.877	2.215	1	0.444	0.004
11	WW	5	60	68.588	54.936	48.042	65.208	90.709	80.071	108.681	5	6.350	9.258	11.559	1	0.438	0.149
12	WW	5	60	65.225	58.728	54.822	62.002	98.049	91.369	103.336	5	2.791	4.280	4.753	1	0.955	0.366
16	WW	5	60	60.945	60.945	57.270	63.891	102.036	95.450	106.485	5	2.384	3.912	3.912	1	0.625	0.426
20	WW	39	60	64.371	60.770	48.042	75.320	101.233	95.500	103.233	39	5.619	8.730	10.503	1	0.249	0.456

Table A-52: PFHxA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	51.558	51.558	41.660	63.120	82.017	69.433	105.200	4	8.064	15.641	15.641	1	0.880	0.079
4	GW	5	60	63.497	63.497	54.484	70.753	108.241	90.806	117.922	5	6.777	10.673	10.673	1	0.695	0.313
5	GW	5	60	62.184	59.386	51.122	69.042	99.271	85.204	115.071	5	7.929	12.752	13.352	1	0.465	0.871
6	GW	5	60	51.880	51.880	48.200	58.900	81.833	80.333	98.167	5	4.678	9.017	9.017	1	0.134	0.018
10	GW	5	60	59.676	59.676	55.560	62.140	100.421	92.600	103.567	5	2.484	4.162	4.162	1	0.324	0.785
11	GW	5	60	61.030	59.743	52.252	64.359	103.312	87.087	107.266	5	4.751	7.784	7.952	1	0.383	0.910
12	GW	5	60	54.592	54.592	45.900	58.588	92.310	76.500	97.647	5	5.063	9.273	9.273	1	0.067	0.075
16	GW	5	60	55.464	55.464	39.540	76.965	80.583	65.900	128.274	4	17.004	30.659	30.659	1	0.242	0.583
20	GW	40	60	57.485	56.975	39.540	76.965	96.519	90.806	100.421	38	8.667	15.078	14.845	1	0.963	0.029
2	RW	5	60	59.908	59.908	51.730	68.250	98.017	86.217	113.750	5	6.098	10.179	10.179	1	0.951	0.975
4	RW	5	60	66.500	66.500	55.781	81.343	109.241	92.968	135.572	4	9.517	14.311	14.311	1	0.742	0.201
5	RW	5	60	65.832	63.073	53.121	75.261	102.901	88.535	125.435	5	8.524	12.948	13.515	1	0.947	0.465
6	RW	5	60	54.100	54.100	50.400	57.800	88.333	84.000	96.333	5	3.100	5.730	5.730	1	0.549	0.013
10	RW	5	60	58.687	58.687	50.110	70.933	95.266	83.517	118.222	5	7.638	13.015	13.015	1	0.503	0.720
11	RW	5	60	59.511	59.511	55.350	65.455	97.665	92.250	109.092	5	3.742	6.288	6.288	1	0.596	0.785
12	RW	5	60	52.333	52.333	49.498	59.378	83.547	82.497	98.963	5	4.170	7.968	7.968	1	0.048	0.015
16	RW	5	60	53.549	53.549	42.833	67.963	88.989	71.389	113.271	5	9.685	18.086	18.086	1	0.840	0.211
20	RW	40	60	58.803	58.458	42.833	81.343	96.532	92.250	98.963	39	8.140	13.843	13.485	1	0.204	0.223

Table A-52 (continued): PFHxA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	53.310	50.534	43.694	61.914	79.457	72.823	103.190	5	7.117	13.349	14.083	1	0.411	0.041
4	SW	5	60	78.806	78.806	56.932	97.548	135.299	94.887	162.581	2	14.560	18.476	18.476	1	0.648	0.045
5	SW	5	60	77.604	68.393	50.369	88.489	116.848	83.948	147.481	3	16.995	21.899	24.849	1	0.428	0.331
6	SW	5	60	67.600	58.440	51.440	66.040	97.567	85.733	110.067	5	5.604	8.290	9.589	1	0.992	0.567
10	SW	5	60	53.701	53.701	47.642	56.462	91.475	79.404	94.103	5	3.636	6.770	6.770	1	0.135	0.018
11	SW	5	60	57.280	56.258	51.547	60.276	97.044	85.911	100.460	5	4.104	7.164	7.294	1	0.144	0.111
12	SW	5	60	56.192	56.192	51.612	66.434	92.183	86.020	110.723	5	6.061	10.787	10.787	1	0.087	0.233
16	SW	5	60	49.226	49.226	35.957	70.806	77.752	59.928	118.010	4	12.971	26.350	26.350	1	0.249	0.137
20	SW	40	60	61.715	58.944	35.957	97.548	92.683	86.781	98.514	34	14.208	23.022	22.285	1	0.002	0.614
2	WW	5	60	61.628	60.458	52.300	68.810	99.450	87.167	114.683	5	5.985	9.711	9.899	1	0.908	0.872
4	WW	5	60	78.437	78.437	60.293	93.345	139.136	100.488	155.575	2	13.129	16.738	16.738	1	0.721	0.035
5	WW	5	60	77.324	69.381	58.157	83.357	112.361	96.928	138.928	4	9.136	11.815	13.168	1	0.683	0.083
6	WW	5	60	61.900	55.092	46.092	61.592	93.987	76.820	102.653	5	5.718	9.237	10.379	1	0.650	0.127
10	WW	4	60	103.109	51.464	43.701	57.238	87.432	72.835	95.397	4	5.741	5.568	11.155	1	0.763	0.059
11	WW	5	60	109.176	53.993	46.445	65.363	88.790	77.409	108.938	5	7.228	6.621	13.387	1	0.649	0.137
12	WW	5	60	103.357	54.151	47.008	66.760	88.283	78.347	111.267	5	7.761	7.509	14.332	1	0.372	0.167
16	WW	5	60	91.503	47.040	28.997	64.655	79.360	48.328	107.758	4	12.727	13.909	27.056	1	0.770	0.085
20	WW	39	60	85.361	58.939	28.997	93.345	95.397	88.790	104.183	34	19.553	22.907	21.662	1	0.086	0.607

Table A-53: PFPeA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	58.558	58.558	48.000	67.140	96.800	80.000	111.900	5	7.862	13.425	13.425	1	0.750	0.703
4	GW	5	60	74.259	74.259	69.546	78.332	124.521	115.911	130.554	4	3.323	4.475	4.475	1	0.981	0.001
5	GW	5	60	65.544	65.544	60.140	74.740	105.900	100.233	124.567	5	5.694	8.687	8.687	1	0.406	0.095
6	GW	5	60	53.700	53.700	51.600	57.900	87.167	86.000	96.500	5	2.695	5.019	5.019	1	0.160	0.006
10	GW	5	60	57.950	50.096	46.138	54.323	84.026	76.897	90.539	5	3.299	5.693	6.585	1	0.887	0.003
11	GW	5	60	59.086	59.086	53.714	67.815	95.960	89.524	113.026	5	5.676	9.606	9.606	1	0.534	0.737
12	GW	5	60	63.404	63.404	57.530	67.618	109.067	95.883	112.697	5	4.111	6.483	6.483	1	0.468	0.138
16	GW	5	60	116.106	116.106	65.857	181.708	180.349	109.762	302.846	2	50.470	43.469	43.469	1	0.494	0.068
20	GW	40	60	68.576	67.594	46.138	181.708	103.075	95.883	111.533	36	25.389	37.023	38.376	1	0.000	0.072
2	RW	5	60	62.498	62.498	57.980	66.950	105.783	96.633	111.583	5	3.575	5.721	5.721	1	0.827	0.193
4	RW	5	60	72.118	72.118	58.960	88.206	121.747	98.267	147.010	4	10.864	15.064	15.064	1	0.854	0.067
5	RW	5	60	66.476	66.476	56.840	73.760	110.567	94.733	122.933	5	7.299	10.980	10.980	1	0.510	0.118
6	RW	5	60	52.520	52.520	49.900	55.500	87.500	83.167	92.500	5	2.098	3.995	3.995	1	0.988	0.001
10	RW	5	60	57.850	53.047	48.739	62.525	87.249	81.231	104.209	5	5.580	9.646	10.519	1	0.080	0.050
11	RW	5	60	68.854	68.854	60.286	85.442	107.119	100.477	142.404	4	10.014	14.544	14.544	1	0.190	0.119
12	RW	5	60	53.552	53.552	52.666	55.768	88.697	87.777	92.947	5	1.264	2.360	2.360	1	0.020	0.000
16	RW	5	60	70.096	70.096	59.204	90.641	102.122	98.673	151.068	3	14.241	20.317	20.317	1	0.097	0.188
20	RW	40	60	62.996	62.395	48.739	90.641	100.135	92.947	107.050	36	10.286	16.327	17.166	1	0.003	0.165

Table A-53 (continued): PFPeA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	58.572	50.892	44.240	60.180	76.917	73.733	100.300	5	7.915	13.513	15.552	1	0.049	0.062
4	SW	5	60	78.078	78.078	73.051	84.533	126.852	121.752	140.888	3	4.646	5.950	5.950	1	0.610	0.001
5	SW	5	60	72.476	62.580	54.464	69.124	105.774	90.774	115.207	5	5.541	7.646	8.854	1	0.942	0.357
6	SW	5	60	68.460	68.460	60.500	74.100	115.333	100.833	123.500	5	4.960	7.245	7.245	1	0.452	0.019
10	SW	5	60	49.006	45.847	41.635	50.957	73.715	69.392	84.928	4	4.008	8.178	8.741	1	0.437	0.001
11	SW	5	60	60.313	60.313	50.938	76.714	97.563	84.897	127.857	5	10.099	16.745	16.745	1	0.392	0.948
12	SW	5	60	60.583	60.583	55.408	66.756	96.503	92.347	111.260	5	5.020	8.286	8.286	1	0.239	0.808
16	SW	5	60	65.082	65.082	59.373	69.561	108.851	98.955	115.936	5	3.942	6.057	6.057	1	0.918	0.045
20	SW	40	60	64.071	61.479	41.635	84.533	101.933	96.503	111.260	37	10.186	15.898	17.815	1	0.632	0.398
2	WW	5	60	68.554	59.736	55.062	63.062	103.970	91.770	105.103	5	3.990	5.820	6.679	1	0.036	0.890
4	WW	5	60	73.277	73.277	69.110	78.171	119.517	115.184	130.285	3	4.519	6.167	6.167	1	0.091	0.003
5	WW	5	60	77.944	74.170	65.046	84.146	125.309	108.409	140.243	4	6.985	8.961	9.417	1	0.870	0.011
6	WW	5	60	59.940	59.940	50.500	68.300	102.500	84.167	113.833	5	6.526	10.888	10.888	1	0.864	0.985
10	WW	4	60	98.333	54.502	45.464	63.080	91.218	75.774	105.134	4	9.406	9.566	17.258	1	0.103	0.327
11	WW	5	60	107.882	67.279	53.282	75.910	118.067	88.803	126.516	5	9.456	8.765	14.055	1	0.417	0.160
12	WW	5	60	104.432	61.898	55.394	76.054	99.813	92.323	126.757	5	8.308	7.955	13.422	1	0.103	0.636
16	WW	5	60	116.500	60.819	52.858	66.169	102.312	88.096	110.282	5	5.378	4.616	8.842	1	0.658	0.751
20	WW	39	60	88.102	64.195	45.464	84.146	104.120	102.500	115.184	36	20.999	23.835	14.143	1	0.814	0.006

Table A-54: PFBA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	55.176	52.792	38.426	59.366	92.343	64.043	98.943	4	8.233	14.921	15.594	1	0.033	0.122
4	GW	5	60	74.297	74.297	67.808	78.659	123.908	113.014	131.098	4	4.047	5.447	5.447	1	0.467	0.001
5	GW	5	60	62.220	57.554	47.834	67.494	95.989	79.723	112.489	5	6.968	11.199	12.107	1	0.551	0.476
6	GW	5	60	45.900	44.848	37.148	55.248	66.413	61.913	92.080	2	8.965	19.532	19.990	1	0.059	0.019
10	GW	5	60	55.272	52.339	45.821	58.973	89.777	76.368	98.288	5	5.587	10.109	10.675	1	0.568	0.037
11	GW	5	60	62.738	61.185	54.008	64.536	106.962	90.013	107.559	5	4.621	7.365	7.552	1	0.075	0.597
12	GW	5	60	52.570	52.570	48.832	59.534	85.090	81.387	99.223	5	4.233	8.052	8.052	1	0.278	0.017
16	GW	5	60	74.601	74.601	46.441	100.138	119.769	77.401	166.897	3	20.421	27.373	27.373	1	0.958	0.185
20	GW	40	60	60.347	58.773	37.148	100.138	94.108	89.913	99.223	33	12.856	21.304	22.540	1	0.063	0.561
2	RW	5	60	61.472	61.472	50.110	72.890	103.667	83.517	121.483	5	8.184	13.313	13.313	1	0.845	0.708
4	RW	5	60	71.360	71.360	63.628	80.018	120.125	106.047	133.363	4	6.442	9.028	9.028	1	0.926	0.017
5	RW	5	60	69.720	66.963	58.123	81.303	101.605	96.872	135.505	4	10.039	14.399	14.992	1	0.197	0.196
6	RW	5	60	51.220	51.220	49.300	54.000	83.833	82.167	90.000	5	1.994	3.893	3.893	1	0.388	0.001
10	RW	5	60	36.217	35.112	18.513	44.169	63.305	30.854	73.615	1	10.170	28.081	28.965	1	0.330	0.005
11	RW	5	60	57.770	57.770	54.064	61.399	96.958	90.107	102.332	5	3.469	6.004	6.004	1	0.234	0.224
12	RW	5	60	45.294	45.294	42.736	49.386	74.083	71.227	82.310	5	2.804	6.191	6.191	1	0.441	0.000
16	RW	5	60	57.859	57.859	39.354	74.123	95.198	65.590	123.539	4	12.471	21.555	21.555	1	0.675	0.721
20	RW	40	60	56.364	55.881	18.513	81.303	95.176	83.517	101.605	33	13.312	23.617	23.630	1	0.674	0.056

Table A-54 (continued): PFBA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	53.506	47.362	39.856	57.196	72.710	66.427	95.327	4	7.769	14.520	16.404	1	0.246	0.022
4	SW	5	60	75.884	74.174	68.507	81.369	125.407	114.179	135.615	4	5.545	7.308	7.476	1	0.444	0.005
5	SW	5	60	70.772	66.297	57.665	73.325	109.508	96.108	122.208	5	6.434	9.091	9.704	1	0.733	0.094
6	SW	5	60	45.900	45.900	22.300	59.300	86.333	37.167	98.833	3	14.695	32.015	32.015	1	0.350	0.098
10	SW	5	60	36.695	32.502	24.407	37.773	55.408	40.679	62.956	0	5.418	14.764	16.668	1	0.612	0.000
11	SW	5	60	51.002	51.002	47.191	53.942	85.148	78.652	89.904	5	2.469	4.842	4.842	1	0.734	0.001
12	SW	5	60	50.397	50.397	44.748	60.438	75.280	74.580	100.730	5	7.569	15.019	15.019	1	0.042	0.047
16	SW	5	60	53.234	48.467	31.338	79.364	73.881	52.230	132.273	2	18.196	34.181	37.543	1	0.138	0.229
20	SW	40	60	54.674	52.013	22.300	81.369	85.741	74.580	95.327	28	15.031	27.492	28.953	1	0.692	0.002
2	WW	5	60	54.566	49.702	42.446	54.776	83.777	70.743	91.293	5	4.631	8.486	9.317	1	0.717	0.008
4	WW	5	60	73.522	73.522	64.641	82.268	121.102	107.735	137.113	4	6.610	8.991	8.991	1	0.988	0.010
5	WW	5	60	78.920	68.889	53.509	81.869	115.882	89.182	136.449	4	10.229	12.961	14.848	1	0.784	0.124
6	WW	5	60	50.680	50.680	44.900	59.600	82.167	74.833	99.333	5	5.700	11.247	11.247	1	0.634	0.022
10	WW	4	60	70.576	45.612	34.877	62.544	70.855	58.128	104.240	2	11.875	16.825	26.034	1	0.355	0.094
11	WW	5	60	62.990	55.762	46.253	63.365	90.747	77.089	105.609	5	6.595	10.470	11.827	1	0.736	0.224
12	WW	5	60	59.029	59.029	51.510	65.552	100.723	85.850	109.253	5	5.346	9.056	9.056	1	0.922	0.705
16	WW	5	60	64.437	58.080	44.757	80.276	89.756	74.596	133.794	4	13.979	21.695	24.069	1	0.486	0.774
20	WW	39	60	64.180	57.968	34.877	82.268	91.293	87.010	104.240	34	12.033	18.748	20.480	1	0.382	0.292

Table A-55: PFDS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	57.9	40.600	40.600	31.100	51.690	62.280	53.713	89.275	2	9.418	23.197	23.197	1	0.196	0.015
4	GW	5	57.9	49.937	49.937	40.187	57.458	85.833	69.408	99.237	4	6.414	12.844	12.844	1	0.787	0.050
5	GW	5	57.9	68.408	68.408	61.160	75.340	119.240	105.630	130.121	4	5.150	7.528	7.528	1	0.930	0.010
6	GW	5	57.9	52.100	52.100	49.100	56.800	89.292	84.801	98.100	5	3.249	6.236	6.236	1	0.477	0.016
10	GW	5	57.9	50.105	50.105	47.768	52.824	85.397	82.501	91.232	5	1.932	3.856	3.856	1	0.831	0.001
11	GW	5	57.9	67.096	65.953	59.178	73.222	111.107	102.208	126.463	5	5.992	8.931	9.086	1	0.573	0.040
12	GW	5	57.9	47.540	47.540	42.162	50.204	83.434	72.819	86.708	5	3.109	6.541	6.541	1	0.054	0.002
16	GW	5	57.9	68.007	68.007	62.876	72.027	118.221	108.594	124.400	5	3.553	5.224	5.224	1	0.916	0.003
20	GW	40	57.9	55.474	55.331	31.100	75.340	90.262	85.397	105.630	35	11.309	20.386	20.177	1	0.094	0.154
2	RW	5	57.9	48.954	48.954	44.230	57.220	80.000	76.390	98.826	5	5.612	11.463	11.463	1	0.247	0.023
4	RW	5	57.9	48.628	48.628	45.165	60.307	78.216	78.006	104.156	5	6.579	13.529	13.529	1	0.002	0.034
5	RW	5	57.9	67.800	67.800	53.900	87.120	119.206	93.092	150.466	4	12.727	18.771	18.771	1	0.665	0.157
6	RW	5	57.9	54.940	54.940	49.000	59.600	94.646	84.629	102.936	5	3.983	7.251	7.251	1	0.867	0.172
10	RW	5	57.9	52.923	52.923	47.063	61.657	89.627	81.284	106.489	5	5.628	10.634	10.634	1	0.705	0.119
11	RW	5	57.9	61.466	61.466	58.757	68.191	102.786	101.480	117.773	5	3.909	6.360	6.360	1	0.038	0.111
12	RW	5	57.9	48.848	48.848	44.988	52.670	84.242	77.699	90.967	5	2.874	5.883	5.883	1	1.000	0.002
16	RW	5	57.9	68.855	68.855	56.795	83.321	117.000	98.091	143.904	4	9.450	13.725	13.725	1	0.373	0.061
20	RW	40	57.9	56.552	56.552	44.230	87.120	94.456	86.750	102.396	38	10.224	18.080	18.080	1	0.002	0.409

Table A-55 (continued): PFDS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	57.9	40.630	40.630	32.700	51.060	69.534	56.477	88.187	2	6.811	16.763	16.763	1	0.820	0.005
4	SW	5	57.9	44.930	44.930	24.246	58.390	77.787	41.875	100.846	3	14.230	31.672	31.672	1	0.495	0.111
5	SW	5	57.9	67.136	67.136	55.100	77.700	115.164	95.164	134.197	3	10.262	15.286	15.286	1	0.363	0.114
6	SW	5	57.9	58.680	58.680	56.200	62.100	99.655	97.064	107.254	5	2.551	4.347	4.347	1	0.407	0.532
10	SW	5	57.9	47.634	47.634	44.816	49.385	83.254	77.403	85.294	5	1.815	3.810	3.810	1	0.539	0.000
11	SW	5	57.9	60.438	60.438	51.507	67.494	106.557	88.959	116.569	5	5.863	9.701	9.701	1	0.791	0.388
12	SW	5	57.9	50.407	50.407	45.168	59.800	84.473	78.010	103.282	5	5.917	11.739	11.739	1	0.384	0.047
16	SW	5	57.9	67.497	67.497	53.811	78.783	118.810	92.938	136.068	4	8.962	13.278	13.278	1	0.611	0.075
20	SW	40	57.9	54.669	54.669	24.246	78.783	96.114	84.473	102.038	32	12.089	22.113	22.113	1	0.947	0.099
2	WW	5	57.9	46.832	46.832	39.430	55.260	84.007	68.100	95.440	4	6.656	14.212	14.212	1	0.549	0.021
4	WW	5	57.9	44.319	44.319	37.210	50.677	75.269	64.266	87.524	3	5.972	13.475	13.475	1	0.441	0.007
5	WW	5	57.9	57.292	57.292	25.240	72.240	106.252	43.592	124.767	4	18.988	33.142	33.142	1	0.127	0.946
6	WW	5	57.9	54.080	54.080	48.100	62.000	90.846	83.074	107.081	5	5.170	9.560	9.560	1	0.744	0.174
10	WW	4	57.9	48.457	48.457	44.362	52.136	84.051	76.619	90.045	4	3.342	6.898	6.898	1	0.954	0.011
11	WW	5	57.9	62.468	61.197	56.337	66.164	106.144	97.300	114.273	5	4.385	7.019	7.165	1	0.451	0.168
12	WW	5	57.9	52.713	52.713	47.536	55.294	93.157	82.100	95.499	5	3.048	5.782	5.782	1	0.129	0.019
16	WW	5	57.9	74.147	74.147	64.706	83.927	124.424	111.754	144.952	3	7.571	10.211	10.211	1	0.858	0.009
20	WW	39	57.9	55.207	55.044	25.240	83.927	93.157	86.546	98.859	33	12.018	21.768	21.662	1	0.725	0.143

Table A-56: PFNS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	57.6	46.908	46.908	37.730	63.750	70.747	65.503	110.677	3	11.250	23.982	23.982	1	0.182	0.101
4	GW	5	57.6	50.096	50.096	46.552	58.075	84.444	80.820	100.825	5	4.772	9.525	9.525	1	0.117	0.025
5	GW	5	57.6	68.004	68.004	62.880	70.160	119.167	109.167	121.806	5	2.967	4.363	4.363	1	0.046	0.001
6	GW	5	57.6	53.060	53.060	50.580	57.740	89.965	87.813	100.243	5	2.857	5.385	5.385	1	0.240	0.024
10	GW	5	57.6	53.450	53.450	47.264	58.022	93.283	82.055	100.733	5	4.380	8.194	8.194	1	0.742	0.101
11	GW	5	57.6	72.450	72.450	66.835	79.375	121.144	116.033	137.803	3	5.474	7.555	7.555	1	0.313	0.004
12	GW	5	57.6	49.705	49.705	44.154	52.544	87.267	76.656	91.222	5	3.394	6.829	6.829	1	0.240	0.007
16	GW	5	57.6	66.037	66.037	59.651	78.116	111.248	103.560	135.618	4	7.040	10.660	10.660	1	0.075	0.055
20	GW	40	57.6	57.464	57.464	37.730	79.375	96.118	89.306	110.363	35	10.693	18.608	18.608	1	0.322	0.936
2	RW	5	57.6	46.310	46.310	36.440	52.110	83.594	63.264	90.469	4	5.877	12.691	12.691	1	0.174	0.013
4	RW	5	57.6	59.137	59.137	56.117	62.927	101.593	97.425	109.248	5	2.611	4.415	4.415	1	0.903	0.258
5	RW	5	57.6	69.716	69.716	63.540	82.880	117.292	110.313	143.889	4	7.741	11.103	11.103	1	0.120	0.025
6	RW	5	57.6	53.520	53.520	50.500	57.500	90.799	87.674	99.826	5	2.797	5.226	5.226	1	0.612	0.031
10	RW	5	57.6	56.008	56.008	54.104	60.538	94.610	93.930	105.101	5	2.740	4.893	4.893	1	0.065	0.264
11	RW	5	57.6	64.918	64.918	61.236	73.082	109.794	106.313	126.879	5	4.689	7.223	7.223	1	0.042	0.025
12	RW	5	57.6	50.336	50.336	48.732	52.842	87.500	84.604	91.740	5	1.717	3.411	3.411	1	0.441	0.001
16	RW	5	57.6	68.668	68.668	58.447	87.073	116.248	101.471	151.169	4	10.903	15.877	15.877	1	0.172	0.086
20	RW	40	57.6	58.577	58.577	36.440	87.073	100.052	93.930	109.051	37	9.643	16.462	16.462	1	0.081	0.526

Table A-56 (continued): PFNS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	57.6	38.836	38.836	35.330	43.520	66.788	61.337	75.556	2	3.396	8.743	8.743	1	0.692	0.000
4	SW	5	57.6	56.669	56.669	49.020	70.392	92.609	85.104	122.208	5	8.733	15.411	15.411	1	0.344	0.823
5	SW	5	57.6	68.552	68.552	57.540	79.340	112.535	99.896	137.743	3	9.066	13.225	13.225	1	0.490	0.054
6	SW	5	57.6	57.388	57.388	55.560	59.340	99.688	96.458	103.021	5	1.356	2.363	2.363	1	0.830	0.744
10	SW	5	57.6	50.127	50.127	47.827	53.853	85.793	83.033	93.495	5	2.445	4.878	4.878	1	0.519	0.002
11	SW	5	57.6	65.835	65.835	59.516	70.314	116.450	103.327	122.073	5	4.708	7.151	7.151	1	0.428	0.017
12	SW	5	57.6	51.399	51.399	46.910	58.338	84.483	81.441	101.281	5	5.116	9.954	9.954	1	0.192	0.054
16	SW	5	57.6	69.355	69.355	62.849	75.743	123.650	109.113	131.499	4	5.319	7.669	7.669	1	0.619	0.008
20	SW	40	57.6	57.270	57.270	35.330	79.340	99.792	88.856	108.446	34	11.186	19.531	19.531	1	0.778	0.853
2	WW	5	57.6	46.562	46.562	35.350	56.270	83.872	61.372	97.691	4	8.047	17.282	17.282	1	0.947	0.037
4	WW	5	57.6	51.920	51.920	43.142	58.168	94.727	74.899	100.986	5	6.911	13.310	13.310	1	0.220	0.140
5	WW	5	57.6	63.584	63.584	51.000	71.880	113.403	88.542	124.792	5	7.683	12.084	12.084	1	0.322	0.157
6	WW	5	57.6	57.760	57.760	51.960	64.300	100.035	90.208	111.632	5	4.604	7.970	7.970	1	0.990	0.942
10	WW	4	57.6	51.837	51.837	50.764	53.068	89.858	88.132	92.132	4	1.125	2.171	2.171	1	0.355	0.002
11	WW	5	57.6	67.218	67.218	65.208	68.289	117.017	113.209	118.558	5	1.182	1.758	1.758	1	0.125	0.000
12	WW	5	57.6	53.850	53.850	47.678	59.204	93.903	82.774	102.785	5	4.126	7.662	7.662	1	0.699	0.112
16	WW	5	57.6	69.503	69.503	55.723	85.062	120.673	96.741	147.677	3	12.239	17.610	17.610	1	0.756	0.095
20	WW	39	57.6	57.932	57.932	35.350	85.062	97.691	92.701	110.590	36	9.957	17.187	17.187	1	0.748	0.836

Table A-57: PFOS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	55.5	45.826	45.826	34.000	53.910	84.450	61.261	97.135	4	7.455	16.267	16.267	1	0.645	0.044
4	GW	5	55.5	61.041	61.041	45.308	74.455	118.083	81.636	134.154	4	11.923	19.532	19.532	1	0.649	0.357
5	GW	5	55.5	64.236	64.236	56.500	69.560	119.351	101.802	125.333	5	5.833	9.081	9.081	1	0.306	0.029
6	GW	5	55.5	50.920	50.920	47.800	55.400	92.252	86.126	99.820	5	2.964	5.821	5.821	1	0.618	0.026
10	GW	5	55.5	54.755	54.755	47.537	61.157	100.631	85.652	110.192	5	4.965	9.069	9.069	1	0.849	0.754
11	GW	5	55.5	68.574	61.722	49.344	75.691	107.183	88.908	136.379	4	10.944	15.959	17.731	1	0.738	0.273
12	GW	5	55.5	48.914	48.914	46.264	51.858	86.256	83.359	93.438	5	2.373	4.852	4.852	1	0.441	0.003
16	GW	5	55.5	67.795	67.795	59.211	81.332	120.032	106.687	146.545	4	8.178	12.063	12.063	1	0.239	0.028
20	GW	40	55.5	57.758	56.901	34.000	81.332	98.669	92.252	107.676	36	10.818	18.730	17.861	1	0.200	0.389
2	RW	5	55.5	50.254	50.254	48.010	54.530	87.712	86.505	98.252	5	2.767	5.505	5.505	1	0.168	0.013
4	RW	5	55.5	62.033	62.033	42.754	91.603	94.128	77.034	165.051	4	19.602	31.600	31.600	1	0.421	0.498
5	RW	5	55.5	62.524	62.524	55.880	71.160	111.171	100.685	128.216	5	6.453	10.320	10.320	1	0.634	0.072
6	RW	5	55.5	51.520	51.520	48.400	53.200	92.793	87.207	95.856	5	1.941	3.767	3.767	1	0.230	0.010
10	RW	5	55.5	54.406	54.406	50.007	62.956	95.838	90.102	113.434	5	5.067	9.314	9.314	1	0.186	0.655
11	RW	5	55.5	60.961	56.834	46.820	70.169	98.347	84.360	126.430	5	8.850	14.517	15.572	1	0.832	0.753
12	RW	5	55.5	47.766	41.544	38.538	46.138	73.723	69.438	83.132	4	2.797	5.856	6.733	1	0.294	0.000
16	RW	5	55.5	64.908	64.908	56.675	74.531	117.447	102.117	134.290	4	8.180	12.602	12.602	1	0.326	0.062
20	RW	40	55.5	56.796	55.503	38.538	91.603	95.757	92.688	102.117	37	10.090	17.765	19.508	1	0.008	0.999

Table A-57 (continued): PFOS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	55.5	53.010	53.010	37.550	65.480	93.423	67.658	117.982	4	10.317	19.463	19.463	1	0.756	0.618
4	SW	5	55.5	63.822	59.236	38.740	71.987	122.841	69.801	129.706	4	14.635	22.931	24.706	1	0.168	0.599
5	SW	5	55.5	79.320	66.208	57.488	78.848	114.969	103.582	142.068	4	8.070	10.174	12.188	1	0.655	0.041
6	SW	5	55.5	67.540	55.760	53.420	58.020	101.658	96.252	104.541	5	1.926	2.851	3.453	1	0.579	0.778
10	SW	5	55.5	49.479	49.479	47.850	51.045	89.308	86.216	91.974	5	1.256	2.537	2.537	1	0.973	0.000
11	SW	5	55.5	62.466	56.088	49.976	58.877	103.312	90.048	106.086	5	3.540	5.668	6.312	1	0.070	0.729
12	SW	5	55.5	54.089	54.089	48.912	64.144	94.231	88.130	115.575	5	6.137	11.346	11.346	1	0.259	0.634
16	SW	5	55.5	65.841	65.841	57.136	72.245	121.153	102.947	130.171	4	5.591	8.492	8.492	1	0.701	0.014
20	SW	40	55.5	61.946	57.464	37.550	78.848	102.663	94.231	106.086	36	11.475	18.525	15.609	1	0.448	0.174
2	WW	5	55.5	64.558	64.558	55.040	76.870	115.982	99.171	138.505	4	9.093	14.086	14.086	1	0.686	0.090
4	WW	5	55.5	72.098	72.098	57.853	81.209	138.862	104.239	146.323	2	9.545	13.240	13.240	1	0.366	0.018
5	WW	5	55.5	72.408	60.056	56.228	65.388	107.113	101.311	117.815	5	3.342	4.615	5.565	1	0.505	0.038
6	WW	5	55.5	62.420	51.548	43.028	59.028	92.843	77.528	106.357	5	5.761	9.229	11.176	1	0.804	0.200
10	WW	4	55.5	59.692	52.133	49.905	54.888	93.458	89.919	98.898	4	2.266	3.796	4.346	1	0.675	0.059
11	WW	5	55.5	69.875	53.244	42.032	80.687	85.576	75.733	145.381	4	15.832	22.657	29.734	1	0.043	0.766
12	WW	5	55.5	58.951	53.766	47.907	56.727	98.340	86.319	102.210	5	3.441	5.837	6.400	1	0.140	0.323
16	WW	5	55.5	72.041	70.809	65.802	76.829	128.129	118.561	138.430	4	4.012	5.569	5.666	1	0.747	0.001
20	WW	39	55.5	66.680	59.972	42.032	81.209	102.216	98.340	117.815	33	9.054	13.579	18.043	1	0.068	0.014

Table A-58: PFHpS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	57	46.786	46.786	36.710	68.190	78.000	64.404	119.632	3	12.482	26.678	26.678	1	0.084	0.141
4	GW	5	57	56.282	56.282	45.638	68.673	99.508	80.067	120.479	5	8.751	15.549	15.549	1	0.966	0.863
5	GW	5	57	56.268	56.268	51.160	63.420	93.789	89.754	111.263	5	5.300	9.419	9.419	1	0.291	0.773
6	GW	5	57	51.820	51.820	48.600	56.700	90.702	85.263	99.474	5	3.021	5.830	5.830	1	0.434	0.019
10	GW	5	57	53.931	53.931	48.483	56.177	97.332	85.058	98.555	5	3.223	5.975	5.975	1	0.061	0.100
11	GW	5	57	62.416	62.416	55.517	70.759	103.812	97.398	124.138	5	7.281	11.665	11.665	1	0.130	0.172
12	GW	5	57	51.197	51.197	48.648	53.724	89.547	85.347	94.253	5	2.117	4.135	4.135	1	0.771	0.004
16	GW	5	57	65.930	65.930	61.439	73.236	112.595	107.788	128.484	5	4.897	7.427	7.427	1	0.440	0.015
20	GW	40	57	55.579	55.579	36.710	73.236	95.792	90.702	99.800	38	8.453	15.210	15.210	1	0.563	0.294
2	RW	5	57	54.528	54.528	43.800	69.550	93.053	76.842	122.018	5	9.395	17.230	17.230	1	0.491	0.588
4	RW	5	57	59.174	59.174	49.594	64.966	108.149	87.007	113.975	5	5.918	10.001	10.001	1	0.360	0.458
5	RW	5	57	60.840	60.840	54.980	71.600	99.719	96.456	125.614	5	7.402	12.166	12.166	1	0.150	0.311
6	RW	5	57	52.920	52.920	49.800	56.500	89.649	87.368	99.123	5	3.302	6.239	6.239	1	0.061	0.051
10	RW	5	57	54.396	54.396	49.287	62.960	93.851	86.469	110.455	5	5.161	9.488	9.488	1	0.308	0.322
11	RW	5	57	63.881	63.881	57.328	69.777	112.763	100.576	122.415	5	5.064	7.928	7.928	1	0.868	0.038
12	RW	5	57	50.378	50.378	48.074	55.132	87.207	84.340	96.723	5	2.817	5.591	5.591	1	0.152	0.006
16	RW	5	57	65.378	65.378	55.665	78.859	107.600	97.658	138.348	4	9.596	14.678	14.678	1	0.517	0.123
20	RW	40	57	57.687	57.687	43.800	78.859	98.390	93.851	106.138	39	7.842	13.594	13.594	1	0.100	0.583

Table A-58 (continued): PFHpS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	57	46.918	46.918	32.570	63.330	75.737	57.140	111.105	4	11.699	24.936	24.936	1	0.860	0.126
4	SW	5	57	54.952	54.952	43.281	61.807	97.737	75.932	108.434	5	7.132	12.979	12.979	1	0.365	0.556
5	SW	5	57	58.188	58.188	46.360	66.900	102.561	81.333	117.368	5	8.267	14.207	14.207	1	0.764	0.764
6	SW	5	57	56.960	56.960	54.000	60.000	101.053	94.737	105.263	5	2.792	4.901	4.901	1	0.249	0.976
10	SW	5	57	47.116	47.116	44.987	49.591	82.580	78.925	87.002	5	2.037	4.324	4.324	1	0.473	0.000
11	SW	5	57	60.732	60.732	58.165	65.083	105.322	102.045	114.181	5	2.608	4.294	4.294	1	0.263	0.033
12	SW	5	57	51.981	51.981	48.280	58.114	86.796	84.702	101.954	5	4.318	8.306	8.306	1	0.182	0.060
16	SW	5	57	63.106	63.106	58.439	67.586	108.765	102.525	118.572	5	3.670	5.815	5.815	1	0.742	0.020
20	SW	40	57	54.994	54.994	32.570	67.586	99.395	93.140	104.164	39	7.964	14.481	14.481	1	0.148	0.119
2	WW	5	57	54.398	54.398	42.100	67.560	101.544	73.860	118.526	5	10.236	18.818	18.818	1	0.660	0.600
4	WW	5	57	54.014	54.014	45.915	68.895	91.471	80.552	120.868	5	8.867	16.417	16.417	1	0.231	0.493
5	WW	5	57	60.860	60.860	49.800	67.120	108.737	87.368	117.754	5	6.724	11.049	11.049	1	0.338	0.269
6	WW	5	57	57.020	57.020	51.200	64.300	99.474	89.825	112.807	5	4.728	8.292	8.292	1	0.661	0.993
10	WW	4	57	50.667	50.667	49.342	53.211	87.819	86.566	93.352	4	1.818	3.588	3.588	1	0.198	0.006
11	WW	5	57	57.750	57.750	48.972	63.207	102.809	85.916	110.890	5	5.407	9.363	9.363	1	0.472	0.772
12	WW	5	57	53.652	53.652	49.742	57.112	93.947	87.267	100.196	5	2.763	5.151	5.151	1	0.983	0.054
16	WW	5	57	67.455	67.455	60.738	77.763	117.160	106.559	136.426	4	6.278	9.307	9.307	1	0.287	0.020
20	WW	39	57	57.139	57.139	42.100	77.763	100.196	93.352	106.559	38	7.673	13.428	13.428	1	0.595	0.911

Table A-59: PFHxS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	54.72	48.410	48.410	37.520	56.660	93.385	68.567	103.545	4	8.283	17.109	17.109	1	0.455	0.164
4	GW	5	54.72	52.910	36.528	30.476	45.780	64.727	55.694	83.662	1	5.727	10.824	15.678	1	0.519	0.002
5	GW	5	54.72	56.464	56.464	51.000	64.460	101.096	93.202	117.800	5	5.283	9.356	9.356	1	0.730	0.501
6	GW	5	54.72	51.000	51.000	49.300	54.100	93.019	90.095	98.867	5	1.868	3.663	3.663	1	0.212	0.011
10	GW	5	54.72	54.312	54.312	49.398	60.599	97.793	90.273	110.744	5	4.150	7.642	7.642	1	0.856	0.837
11	GW	5	54.72	60.852	56.012	38.335	68.924	98.571	70.056	125.957	5	12.712	20.890	22.696	1	0.518	0.831
12	GW	5	54.72	49.070	49.070	48.134	50.520	88.651	87.964	92.325	5	1.096	2.234	2.234	1	0.157	0.000
16	GW	5	54.72	63.799	63.799	57.136	74.983	116.078	104.416	137.031	4	7.034	11.026	11.026	1	0.423	0.045
20	GW	40	54.72	54.602	51.949	30.476	74.983	93.366	91.009	100.018	34	8.021	14.690	18.651	1	0.362	0.078
2	RW	5	54.72	54.328	54.328	48.710	63.340	96.601	89.017	115.753	5	6.144	11.309	11.309	1	0.466	0.893
4	RW	5	54.72	51.589	37.309	25.120	43.065	73.150	45.906	78.701	3	7.460	14.460	19.994	1	0.170	0.006
5	RW	5	54.72	60.592	60.592	53.380	72.660	104.898	97.551	132.785	4	7.942	13.107	13.107	1	0.401	0.174
6	RW	5	54.72	50.820	50.820	46.800	54.800	91.009	85.526	100.146	5	3.180	6.257	6.257	1	0.762	0.052
10	RW	5	54.72	54.723	54.723	44.346	63.085	100.119	81.041	115.288	5	6.777	12.384	12.384	1	0.677	0.999
11	RW	5	54.72	57.069	54.335	49.871	59.986	94.594	91.138	109.624	5	4.983	8.732	9.171	1	0.072	0.871
12	RW	5	54.72	48.088	48.088	45.160	51.654	88.015	82.529	94.397	5	2.402	4.994	4.994	1	0.892	0.003
16	RW	5	54.72	56.870	56.870	51.616	66.910	101.144	94.327	122.277	5	5.923	10.415	10.415	1	0.171	0.463
20	RW	40	54.72	54.260	52.133	25.120	72.660	95.597	90.461	100.146	37	6.550	12.071	16.408	1	0.288	0.063

Table A-59 (continued): PFHxS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	54.72	46.268	46.268	36.830	60.010	81.323	67.306	109.667	4	8.548	18.475	18.475	1	0.511	0.092
4	SW	5	54.72	64.269	62.230	53.460	69.751	116.156	97.698	127.469	5	6.092	9.480	9.790	1	0.940	0.051
5	SW	5	54.72	62.812	58.948	53.176	64.756	109.898	97.179	118.341	5	4.899	7.799	8.311	1	0.616	0.126
6	SW	5	54.72	58.380	52.256	50.176	55.276	93.523	91.696	101.016	5	2.204	3.775	4.217	1	0.315	0.067
10	SW	5	54.72	48.226	48.226	46.122	51.042	86.966	84.288	93.279	5	2.257	4.680	4.680	1	0.269	0.003
11	SW	5	54.72	49.994	46.110	43.273	51.874	81.347	79.081	94.799	5	3.530	7.062	7.656	1	0.179	0.005
12	SW	5	54.72	51.574	51.574	47.750	59.966	89.733	87.262	109.587	5	4.944	9.586	9.586	1	0.079	0.228
16	SW	5	54.72	58.713	58.713	54.604	65.061	106.693	99.787	118.898	5	3.887	6.620	6.620	1	0.367	0.083
20	SW	40	54.72	55.029	53.040	36.830	69.751	94.921	89.733	101.016	39	7.910	14.374	13.971	1	0.722	0.160
2	WW	5	54.72	52.782	52.782	48.350	62.770	93.640	88.359	114.711	5	5.944	11.261	11.261	1	0.109	0.506
4	WW	5	54.72	55.644	55.644	52.400	60.200	100.146	95.760	110.015	5	3.000	5.391	5.391	1	0.760	0.529
5	WW	5	54.72	63.784	62.648	53.384	70.324	115.615	97.559	128.517	5	6.753	10.587	10.779	1	0.901	0.058
6	WW	5	54.72	55.240	55.240	48.400	64.600	99.415	88.450	118.056	5	5.869	10.625	10.625	1	0.425	0.853
10	WW	4	54.72	55.935	52.398	50.108	54.448	95.975	91.572	99.503	4	2.230	3.987	4.257	1	0.183	0.129
11	WW	5	54.72	54.376	44.747	34.356	57.036	83.103	62.785	104.233	4	8.491	15.615	18.975	1	0.924	0.058
12	WW	5	54.72	55.596	55.596	53.362	57.562	102.500	97.518	105.194	5	1.785	3.211	3.211	1	0.590	0.334
16	WW	5	54.72	65.681	65.681	61.341	70.747	117.074	112.099	129.288	5	4.610	7.019	7.019	1	0.114	0.006
20	WW	39	54.72	57.417	55.674	34.356	70.747	99.503	97.559	105.194	38	6.612	11.515	14.050	1	0.332	0.451

Table A-60: PFPeS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	56.4	45.928	45.928	38.180	55.960	76.330	67.695	99.220	4	6.919	15.066	15.066	1	0.681	0.028
4	GW	5	56.4	59.225	59.225	55.349	66.195	103.006	98.136	117.366	5	4.260	7.193	7.193	1	0.348	0.212
5	GW	5	56.4	56.908	56.908	53.320	59.840	101.206	94.539	106.099	5	2.717	4.775	4.775	1	0.729	0.697
6	GW	5	56.4	51.220	51.220	49.500	53.500	90.603	87.766	94.858	5	1.602	3.128	3.128	1	0.815	0.002
10	GW	5	56.4	53.867	53.867	50.421	56.363	97.580	89.399	99.935	5	2.628	4.878	4.878	1	0.297	0.097
11	GW	5	56.4	56.756	56.756	53.300	60.266	100.769	94.504	106.854	5	2.587	4.558	4.558	1	0.999	0.774
12	GW	5	56.4	51.133	51.133	49.088	52.828	90.926	87.035	93.667	5	1.415	2.768	2.768	1	0.968	0.001
16	GW	5	56.4	57.358	57.358	49.942	66.660	100.409	88.550	118.191	5	6.135	10.696	10.696	1	0.857	0.745
20	GW	40	56.4	54.049	54.049	38.180	66.660	97.371	92.039	99.935	39	5.537	10.244	10.244	1	0.131	0.011
2	RW	5	56.4	55.524	55.524	48.840	65.190	99.007	86.596	115.585	5	6.461	11.636	11.636	1	0.652	0.777
4	RW	5	56.4	60.350	60.350	53.653	65.591	107.667	95.130	116.296	5	5.016	8.312	8.312	1	0.668	0.153
5	RW	5	56.4	56.084	56.084	53.420	60.840	95.816	94.716	107.872	5	3.377	6.021	6.021	1	0.108	0.844
6	RW	5	56.4	49.800	49.800	46.900	51.800	88.121	83.156	91.844	5	1.907	3.828	3.828	1	0.645	0.002
10	RW	5	56.4	54.483	54.483	49.448	65.309	92.682	87.674	115.795	5	6.231	11.437	11.437	1	0.048	0.529
11	RW	5	56.4	53.909	53.909	49.969	57.260	94.984	88.597	101.525	5	2.775	5.147	5.147	1	0.916	0.115
12	RW	5	56.4	49.968	49.968	46.778	53.198	88.929	82.940	94.323	5	2.355	4.714	4.714	1	0.981	0.004
16	RW	5	56.4	56.596	56.596	49.223	64.095	97.132	87.275	113.644	5	6.358	11.233	11.233	1	0.543	0.948
20	RW	40	56.4	54.589	54.589	46.778	65.591	94.833	91.844	98.749	40	5.366	9.831	9.831	1	0.004	0.039

Table A-60 (continued): PFPeS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	56.4	43.590	43.590	36.400	56.980	74.415	64.539	101.028	3	8.330	19.110	19.110	1	0.322	0.026
4	SW	5	56.4	61.662	61.662	54.277	71.344	106.755	96.236	126.497	5	6.312	10.236	10.236	1	0.782	0.136
5	SW	5	56.4	57.632	57.632	45.520	64.520	107.340	80.709	114.397	5	7.882	13.677	13.677	1	0.357	0.744
6	SW	5	56.4	55.240	55.240	53.000	57.500	99.113	93.972	101.950	5	2.078	3.762	3.762	1	0.238	0.280
10	SW	5	56.4	49.158	49.158	44.246	51.638	89.181	78.450	91.556	5	2.869	5.837	5.837	1	0.094	0.005
11	SW	5	56.4	53.270	53.270	50.772	55.139	94.778	90.022	97.764	5	1.651	3.100	3.100	1	0.868	0.013
12	SW	5	56.4	52.667	52.667	48.920	59.386	88.663	86.738	105.294	5	4.516	8.575	8.575	1	0.172	0.138
16	SW	5	56.4	56.779	56.779	50.717	71.548	95.060	89.924	126.858	5	8.590	15.129	15.129	1	0.054	0.926
20	SW	40	56.4	53.750	53.750	36.400	71.548	94.919	90.022	99.113	38	7.506	13.965	13.965	1	0.364	0.031
2	WW	5	56.4	52.784	52.784	48.370	64.380	89.379	85.762	114.149	5	6.549	12.408	12.408	1	0.007	0.285
4	WW	5	56.4	54.477	54.477	46.888	65.486	93.368	83.135	116.110	5	6.841	12.557	12.557	1	0.448	0.564
5	WW	5	56.4	56.504	56.504	51.380	61.160	103.546	91.099	108.440	5	4.269	7.555	7.555	1	0.341	0.959
6	WW	5	56.4	56.640	56.640	50.200	64.000	99.468	89.007	113.475	5	4.915	8.677	8.677	1	0.542	0.918
10	WW	4	56.4	51.130	51.130	46.125	54.515	92.093	81.782	96.657	4	3.830	7.491	7.491	1	0.518	0.071
11	WW	5	56.4	53.788	53.788	51.201	54.830	95.848	90.782	97.217	5	1.496	2.781	2.781	1	0.031	0.017
12	WW	5	56.4	52.466	52.466	48.276	55.120	94.585	85.596	97.730	5	2.652	5.054	5.054	1	0.543	0.029
16	WW	5	56.4	55.989	55.989	50.718	59.729	104.954	89.926	105.903	5	4.725	8.439	8.439	1	0.016	0.855
20	WW	39	56.4	54.301	54.301	46.125	65.486	95.603	91.606	97.730	39	4.686	8.630	8.630	1	0.150	0.008

Table A-61: PFBS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	53.1	49.280	49.280	41.360	60.930	85.122	77.891	114.746	5	8.153	16.543	16.543	1	0.390	0.354
4	GW	5	53.1	61.511	57.534	41.976	72.352	115.608	79.052	136.256	4	11.813	19.205	20.533	1	0.827	0.449
5	GW	5	53.1	55.684	52.778	44.434	61.254	104.545	83.679	115.355	5	7.019	12.605	13.299	1	0.511	0.923
6	GW	5	53.1	50.900	46.650	45.550	48.350	87.288	85.782	91.055	5	1.127	2.214	2.416	1	0.603	0.000
10	GW	5	53.1	55.624	55.624	48.377	62.118	105.408	91.106	116.982	5	5.400	9.709	9.709	1	0.964	0.355
11	GW	5	53.1	52.485	50.979	47.679	58.911	94.490	89.790	110.944	5	4.607	8.777	9.036	1	0.042	0.361
12	GW	5	53.1	55.340	55.340	49.684	76.144	94.738	93.567	143.397	4	11.637	21.029	21.029	1	0.000	0.689
16	GW	5	53.1	52.585	52.585	41.461	67.830	90.926	78.082	127.739	5	11.169	21.241	21.241	1	0.479	0.923
20	GW	40	53.1	54.176	52.596	41.360	76.144	94.164	90.056	104.545	38	8.422	15.547	15.875	1	0.005	0.705
2	RW	5	53.1	50.228	50.228	42.580	58.810	92.486	80.188	110.753	5	6.167	12.278	12.278	1	0.975	0.357
4	RW	5	53.1	54.084	54.084	45.303	66.823	100.004	85.316	125.844	5	8.718	16.119	16.119	1	0.686	0.813
5	RW	5	53.1	51.236	51.236	42.520	55.820	97.815	80.075	105.122	5	5.172	10.094	10.094	1	0.170	0.465
6	RW	5	53.1	46.180	46.180	43.800	51.000	85.311	82.486	96.045	5	2.886	6.249	6.249	1	0.190	0.006
10	RW	5	53.1	48.679	48.679	39.204	59.329	92.109	73.830	111.730	5	8.534	17.532	17.532	1	0.676	0.311
11	RW	5	53.1	49.071	49.071	43.634	55.711	92.574	82.173	104.917	5	4.723	9.625	9.625	1	0.918	0.129
12	RW	5	53.1	47.329	47.329	45.408	49.646	89.676	85.514	93.495	5	1.607	3.395	3.395	1	0.811	0.001
16	RW	5	53.1	47.043	47.043	40.406	55.595	90.218	76.095	104.699	5	6.233	13.249	13.249	1	0.653	0.095
20	RW	40	53.1	49.231	49.231	39.204	66.823	91.164	87.186	96.310	40	5.939	12.064	12.064	1	0.304	0.000

Table A-61 (continued): PFBS Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	53.1	48.030	48.030	40.630	59.710	84.670	76.516	112.448	5	7.857	16.359	16.359	1	0.465	0.223
4	SW	5	53.1	58.385	58.385	51.502	69.748	110.780	96.991	131.352	4	7.195	12.322	12.322	1	0.365	0.176
5	SW	5	53.1	55.552	52.800	43.448	66.948	96.023	81.823	126.079	5	8.838	15.909	16.738	1	0.584	0.943
6	SW	5	53.1	55.200	51.776	48.476	54.376	99.766	91.292	102.403	5	2.552	4.624	4.930	1	0.354	0.311
10	SW	5	53.1	46.609	46.609	44.883	49.424	86.459	84.525	93.077	5	1.737	3.727	3.727	1	0.371	0.001
11	SW	5	53.1	48.206	48.206	44.813	51.051	89.521	84.393	96.142	5	2.534	5.256	5.256	1	0.631	0.012
12	SW	5	53.1	52.739	52.739	47.332	62.192	91.537	89.137	117.122	5	6.790	12.875	12.875	1	0.107	0.911
16	SW	5	53.1	44.751	44.751	34.086	64.797	75.700	64.191	122.029	4	12.131	27.108	27.108	1	0.254	0.199
20	SW	40	53.1	51.184	50.412	34.086	69.748	92.307	88.991	98.305	38	7.936	15.505	15.138	1	0.323	0.032
2	WW	5	53.1	55.962	55.962	50.640	63.210	105.443	95.367	119.040	5	4.622	8.258	8.258	1	0.594	0.238
4	WW	5	53.1	58.160	58.160	44.808	72.224	107.574	84.385	136.015	3	12.946	22.258	22.258	1	0.243	0.431
5	WW	5	53.1	58.992	58.992	53.940	65.380	106.591	101.582	123.126	5	5.015	8.500	8.500	1	0.310	0.058
6	WW	5	53.1	51.660	51.660	44.800	57.000	97.928	84.369	107.345	5	4.489	8.689	8.689	1	0.827	0.513
10	WW	4	53.1	52.970	49.670	48.446	50.366	94.039	91.235	94.851	4	0.892	1.684	1.796	1	0.295	0.005
11	WW	5	53.1	49.818	46.402	41.297	50.304	86.738	77.772	94.734	5	3.491	7.008	7.524	1	0.791	0.013
12	WW	5	53.1	54.199	54.199	52.244	55.818	102.128	98.388	105.119	5	1.615	2.981	2.981	1	0.374	0.203
16	WW	5	53.1	49.066	49.066	42.672	55.554	95.220	80.361	104.621	5	5.062	10.317	10.317	1	0.820	0.149
20	WW	39	53.1	53.876	53.100	41.297	72.224	98.388	94.851	105.002	37	6.431	11.937	13.007	1	0.028	1.000

Table A-62: PFOSA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	53.1	48.030	48.030	40.630	59.710	84.670	76.516	112.448	5	7.857	16.359	16.359	1	0.465	0.223
4	SW	5	53.1	58.385	58.385	51.502	69.748	110.780	96.991	131.352	4	7.195	12.322	12.322	1	0.365	0.176
5	SW	5	53.1	55.552	52.800	43.448	66.948	96.023	81.823	126.079	5	8.838	15.909	16.738	1	0.584	0.943
6	SW	5	53.1	55.200	51.776	48.476	54.376	99.766	91.292	102.403	5	2.552	4.624	4.930	1	0.354	0.311
10	SW	5	53.1	46.609	46.609	44.883	49.424	86.459	84.525	93.077	5	1.737	3.727	3.727	1	0.371	0.001
11	SW	5	53.1	48.206	48.206	44.813	51.051	89.521	84.393	96.142	5	2.534	5.256	5.256	1	0.631	0.012
12	SW	5	53.1	52.739	52.739	47.332	62.192	91.537	89.137	117.122	5	6.790	12.875	12.875	1	0.107	0.911
16	SW	5	53.1	44.751	44.751	34.086	64.797	75.700	64.191	122.029	4	12.131	27.108	27.108	1	0.254	0.199
20	SW	40	60	53.757	53.757	40.760	68.891	86.134	84.163	92.523	38	7.460	13.877	13.877	1	0.084	0.000
2	WW	5	53.1	55.962	55.962	50.640	63.210	105.443	95.367	119.040	5	4.622	8.258	8.258	1	0.594	0.238
4	WW	5	53.1	58.160	58.160	44.808	72.224	107.574	84.385	136.015	3	12.946	22.258	22.258	1	0.243	0.431
5	WW	5	53.1	58.992	58.992	53.940	65.380	106.591	101.582	123.126	5	5.015	8.500	8.500	1	0.310	0.058
6	WW	5	53.1	51.660	51.660	44.800	57.000	97.928	84.369	107.345	5	4.489	8.689	8.689	1	0.827	0.513
10	WW	4	53.1	52.970	49.670	48.446	50.366	94.039	91.235	94.851	4	0.892	1.684	1.796	1	0.295	0.005
11	WW	5	53.1	49.818	46.402	41.297	50.304	86.738	77.772	94.734	5	3.491	7.008	7.524	1	0.791	0.013
12	WW	5	53.1	54.199	54.199	52.244	55.818	102.128	98.388	105.119	5	1.615	2.981	2.981	1	0.374	0.203
16	WW	5	53.1	49.066	49.066	42.672	55.554	95.220	80.361	104.621	5	5.062	10.317	10.317	1	0.820	0.149
20	WW	40	60	52.619	52.619	40.315	69.978	87.000	83.050	92.960	39	6.538	12.425	12.425	1	0.629	0.000

Table A-62 (continued): PFOSA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	40.210	40.210	34.810	48.230	65.650	58.017	80.383	2	5.415	13.467	13.467	1	0.669	0.001
4	SW	5	60	41.223	41.223	38.183	47.583	65.929	63.639	79.304	1	3.793	9.202	9.202	1	0.136	0.000
5	SW	5	60	56.816	56.816	52.420	64.280	88.800	87.367	107.133	5	5.458	9.607	9.607	1	0.090	0.262
6	SW	5	60	53.180	53.180	50.100	55.300	89.667	83.500	92.167	5	2.039	3.834	3.834	1	0.698	0.002
10	SW	5	60	45.882	45.882	41.386	51.417	76.764	68.977	85.694	4	3.635	7.923	7.923	1	0.664	0.001
11	SW	5	60	59.182	59.182	50.342	82.828	88.456	83.903	138.047	4	13.670	23.099	23.099	1	0.027	0.900
12	SW	5	60	51.370	51.370	48.744	58.482	82.820	81.240	97.470	5	4.059	7.901	7.901	1	0.017	0.009
16	SW	5	60	60.866	60.866	57.534	62.613	103.471	95.891	104.355	5	2.219	3.646	3.646	1	0.154	0.432
20	SW	40	60	51.091	51.091	34.810	82.828	84.600	80.383	88.800	31	9.340	18.281	18.281	1	0.073	0.000
2	WW	5	60	52.920	52.920	47.720	56.010	88.917	79.533	93.350	5	3.123	5.901	5.901	1	0.259	0.007
4	WW	5	60	51.081	51.081	43.428	54.642	88.110	72.380	91.071	5	4.415	8.642	8.642	1	0.049	0.011
5	WW	5	60	59.092	59.092	52.180	65.100	99.267	86.967	108.500	5	4.652	7.872	7.872	1	0.804	0.685
6	WW	5	60	55.160	55.160	50.700	59.600	92.500	84.500	99.333	5	3.217	5.832	5.832	1	0.901	0.028
10	WW	4	60	51.007	51.007	47.536	55.390	84.253	79.226	92.317	4	3.547	6.953	6.953	1	0.696	0.015
11	WW	5	60	54.278	54.278	53.227	55.720	89.785	88.712	92.866	5	1.029	1.896	1.896	1	0.554	0.000
12	WW	5	60	53.214	53.214	50.656	54.866	90.580	84.427	91.443	5	1.859	3.494	3.494	1	0.172	0.001
16	WW	5	60	65.657	65.657	59.947	71.941	104.927	99.911	119.902	5	5.533	8.427	8.427	1	0.170	0.084
20	WW	39	60	55.411	55.411	43.428	71.941	90.623	88.712	92.866	39	5.733	10.347	10.347	1	0.005	0.000

Table A-63: FtS 8:2 Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	57.6	47.632	47.632	27.680	67.640	76.233	48.056	117.431	3	16.907	35.494	35.494	1	0.635	0.258
4	GW	5	57.6	57.064	57.064	53.529	63.494	94.561	92.932	110.233	5	4.355	7.631	7.631	1	0.150	0.797
5	GW	5	57.6	65.996	65.996	41.680	84.040	117.083	72.361	145.903	3	16.803	25.461	25.461	1	0.824	0.326
6	GW	5	57.6	53.912	53.912	49.680	55.700	94.861	86.250	96.701	5	2.468	4.577	4.577	1	0.065	0.029
10	GW	5	57.6	56.849	56.849	50.736	64.070	95.992	88.083	111.233	5	5.041	8.868	8.868	1	0.864	0.756
11	GW	5	57.6	68.397	68.397	59.672	75.663	116.944	103.597	131.359	4	6.513	9.523	9.523	1	0.733	0.021
12	GW	5	57.6	53.042	53.042	45.906	61.308	90.090	79.698	106.438	5	6.579	12.404	12.404	1	0.619	0.196
16	GW	5	57.6	62.068	62.068	50.404	92.247	98.594	87.507	160.150	4	17.269	27.822	27.822	1	0.024	0.594
20	GW	40	57.6	58.120	58.120	27.680	92.247	97.648	94.019	103.599	34	12.097	20.815	20.815	1	0.218	0.787
2	RW	5	57.6	55.492	55.492	48.570	63.390	96.215	84.323	110.052	5	5.381	9.697	9.697	1	0.901	0.431
4	RW	5	57.6	55.047	55.047	46.662	67.773	84.686	81.010	117.661	5	9.778	17.762	17.762	1	0.097	0.591
5	RW	5	57.6	63.020	63.020	54.220	71.980	114.444	94.132	124.965	5	7.447	11.817	11.817	1	0.494	0.179
6	RW	5	57.6	59.540	59.540	54.600	63.800	103.646	94.792	110.764	5	3.749	6.297	6.297	1	0.848	0.312
10	RW	5	57.6	68.487	68.487	57.978	79.756	116.426	100.656	138.465	4	8.843	12.913	12.913	1	0.856	0.051
11	RW	5	57.6	65.936	65.936	59.822	75.562	113.944	103.858	131.184	4	6.043	9.164	9.164	1	0.520	0.037
12	RW	5	57.6	53.377	53.377	49.552	61.494	91.604	86.028	106.760	5	4.828	9.044	9.044	1	0.116	0.122
16	RW	5	57.6	63.323	63.323	51.638	73.934	116.500	89.648	128.358	5	9.587	15.141	15.141	1	0.439	0.253
20	RW	40	57.6	60.528	60.528	46.662	79.756	105.309	96.215	110.764	38	8.423	13.915	13.915	1	0.368	0.034

Table A-63 (continued): FtS 8:2 Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	57.6	43.566	43.566	35.910	50.270	77.535	62.344	87.274	3	5.919	13.586	13.586	1	0.780	0.006
4	SW	5	57.6	59.907	59.907	41.826	76.665	108.092	72.615	133.099	4	12.831	21.417	21.417	1	0.948	0.708
5	SW	5	57.6	53.532	53.532	36.460	78.380	88.125	63.299	136.076	3	15.262	28.510	28.510	1	0.253	0.583
6	SW	5	57.6	67.820	67.820	60.260	79.020	116.458	104.618	137.188	4	6.965	10.270	10.270	1	0.522	0.030
10	SW	5	57.6	50.936	50.936	45.643	55.646	87.058	79.241	96.608	5	3.784	7.429	7.429	1	0.868	0.017
11	SW	5	57.6	59.873	59.873	53.430	66.282	101.609	92.760	115.073	5	5.191	8.670	8.670	1	0.790	0.383
12	SW	5	57.6	48.100	48.100	43.278	59.996	78.941	75.135	104.160	5	6.923	14.393	14.393	1	0.051	0.037
16	SW	5	57.6	48.831	48.831	43.492	53.791	82.816	75.506	93.387	5	4.205	8.612	8.612	1	0.703	0.010
20	SW	40	57.6	54.071	54.071	35.910	79.020	90.733	83.566	99.329	34	10.805	19.984	19.984	1	0.140	0.046
2	WW	5	57.6	71.120	71.120	57.530	87.380	123.299	99.878	151.701	3	12.984	18.257	18.257	1	0.538	0.080
4	WW	5	57.6	58.470	58.470	38.370	71.934	104.969	66.615	124.885	4	14.084	24.087	24.087	1	0.546	0.897
5	WW	5	57.6	87.024	87.024	68.040	104.740	157.674	118.125	181.840	2	15.323	17.608	17.608	1	0.687	0.013
6	WW	5	57.6	64.392	64.392	56.260	73.220	110.938	97.674	127.118	5	6.056	9.405	9.405	1	0.729	0.066
10	WW	4	57.6	54.736	54.736	48.911	66.911	89.514	84.916	116.165	4	8.470	15.474	15.474	1	0.124	0.547
11	WW	5	57.6	61.123	61.123	57.866	64.703	105.311	100.461	112.332	5	2.642	4.323	4.323	1	0.968	0.041
12	WW	5	57.6	54.162	54.162	49.194	61.540	89.514	85.406	106.840	5	5.024	9.275	9.275	1	0.408	0.201
16	WW	5	57.6	56.883	56.883	52.067	70.891	92.822	90.395	123.075	5	7.951	13.977	13.977	1	0.009	0.850
20	WW	39	57.6	63.713	63.713	38.370	104.740	105.311	98.958	116.165	33	13.886	21.794	21.794	1	0.007	0.009

Table A-64: FtS 6:2 Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	57	45.894	45.894	39.790	51.580	81.263	69.807	90.491	4	5.246	11.431	11.431	1	0.461	0.009
4	GW	5	57	50.045	50.045	33.649	62.508	92.118	59.034	109.663	4	10.986	21.953	21.953	1	0.869	0.230
5	GW	5	57	56.712	55.057	45.965	62.825	100.008	80.640	110.219	5	6.631	11.692	12.044	1	0.855	0.548
6	GW	5	57	51.560	51.560	48.300	55.100	91.228	84.737	96.667	5	2.551	4.948	4.948	1	0.934	0.009
10	GW	5	57	66.573	44.007	25.486	85.377	66.886	44.712	149.784	1	24.167	36.301	54.916	0	0.083	0.296
11	GW	5	57	22.545	22.545	17.923	25.313	40.920	31.443	44.408	0	2.992	13.269	13.269	1	0.489	0.000
12	GW	5	57	49.456	49.456	44.920	55.868	86.274	78.807	98.014	5	4.055	8.198	8.198	1	0.628	0.014
16	GW	5	57	26.116	26.116	22.271	30.903	41.958	39.072	54.215	0	3.893	14.907	14.907	1	0.179	0.000
20	GW	40	57	46.113	43.085	17.923	85.377	80.952	66.886	88.386	24	16.799	36.431	34.077	1	0.033	0.000
2	RW	5	57	57.056	57.056	42.090	69.810	98.281	73.842	122.474	5	11.416	20.009	20.009	1	0.759	0.992
4	RW	5	57	55.955	55.955	43.910	65.848	97.218	77.035	115.523	5	9.106	16.275	16.275	1	0.717	0.810
5	RW	5	57	56.608	56.608	45.280	70.460	95.404	79.439	123.614	5	10.134	17.901	17.901	1	0.831	0.935
6	RW	5	57	56.860	54.820	50.360	60.360	93.263	88.351	105.895	5	4.017	7.065	7.328	1	0.651	0.292
10	RW	5	57	95.864	72.822	34.371	132.178	73.113	60.299	231.891	1	48.036	50.109	65.964	0	0.046	0.502
11	RW	5	57	22.348	22.348	19.278	27.521	39.540	33.820	48.282	0	3.396	15.194	15.194	1	0.347	0.000
12	RW	5	57	50.130	50.130	45.078	55.304	87.842	79.084	97.025	5	3.746	7.473	7.473	1	0.988	0.015
16	RW	5	57	19.937	19.937	0.000	31.682	41.503	0.000	55.583	0	11.970	60.039	60.039	0	0.266	0.002
20	RW	40	57	51.845	48.710	0.000	132.178	88.096	73.842	95.404	26	28.119	54.237	49.719	1	0.001	0.037

Table A-64 (continued): FtS 6:2 Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	57	53.058	53.058	37.950	62.050	97.772	66.579	108.860	4	9.028	17.014	17.014	1	0.207	0.384
4	SW	5	57	59.036	58.002	36.762	73.741	111.250	64.495	129.370	4	15.968	27.048	27.530	1	0.448	0.895
5	SW	5	57	70.472	67.702	59.830	78.370	119.106	104.966	137.492	4	7.093	10.065	10.477	1	0.795	0.028
6	SW	5	57	74.580	64.126	58.746	72.946	110.958	103.063	127.975	5	5.701	7.644	8.890	1	0.528	0.049
10	SW	5	57	53.618	-2.448	-10.547	14.012	-14.943	-18.503	24.582	0	10.562	19.698	-431.417	1	0.127	0.000
11	SW	5	57	281.719	281.719	17.914	1327.437	37.871	31.427	2328.837	0	584.579	207.504	207.504	0	0.000	0.438
12	SW	5	57	48.754	48.754	46.686	55.734	82.421	81.905	97.779	5	3.913	8.026	8.026	1	0.001	0.009
16	SW	5	57	23.464	23.464	17.625	26.807	42.948	30.921	47.029	0	3.725	15.874	15.874	1	0.420	0.000
20	SW	40	57	83.087	74.297	-10.547	1327.437	82.853	47.029	104.818	22	202.738	244.006	275.520	0	0.000	0.596
2	WW	5	57	71.630	62.272	58.762	67.062	109.495	103.091	117.653	5	3.478	4.856	5.586	1	0.587	0.028
4	WW	5	57	62.946	62.946	44.867	70.853	117.747	78.715	124.304	5	10.346	16.437	16.437	1	0.029	0.268
5	WW	5	57	73.528	65.270	43.482	79.602	121.968	76.284	139.653	4	13.744	18.692	21.057	1	0.580	0.250
6	WW	5	57	68.240	53.760	45.820	62.920	91.965	80.386	110.386	5	6.230	9.129	11.588	1	0.837	0.309
10	WW	4	57	79.861	60.869	41.415	107.562	82.892	72.659	188.706	3	31.270	39.156	51.374	0	0.019	0.821
11	WW	5	57	26.986	22.335	18.918	28.615	36.706	33.189	50.202	0	3.726	13.807	16.682	1	0.175	0.000
12	WW	5	57	63.974	43.692	38.118	54.394	71.031	66.873	95.427	3	6.647	10.390	15.214	1	0.217	0.011
16	WW	5	57	33.968	33.968	28.733	38.354	61.655	50.408	67.288	0	4.046	11.912	11.912	1	0.621	0.000
20	WW	39	57	59.636	50.377	18.918	107.562	85.291	72.659	108.354	25	21.202	35.553	37.031	1	0.221	0.033

Table A-65: FtS 4:2 Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	56.1	41.024	41.024	31.510	52.800	70.909	56.168	94.118	3	8.126	19.808	19.808	1	0.946	0.014
4	GW	5	56.1	54.578	54.578	28.892	77.365	89.699	51.501	137.906	3	18.839	34.517	34.517	1	0.840	0.865
5	GW	5	56.1	59.264	59.264	50.200	79.020	95.686	89.483	140.856	4	11.671	19.692	19.692	1	0.092	0.577
6	GW	5	56.1	47.460	47.460	44.900	51.300	83.422	80.036	91.444	5	2.456	5.175	5.175	1	0.660	0.001
10	GW	5	56.1	40.675	40.675	31.817	45.192	76.606	56.714	80.556	3	5.463	13.431	13.431	1	0.225	0.003
11	GW	5	56.1	53.353	53.353	45.603	56.897	98.311	81.289	101.421	5	4.628	8.674	8.674	1	0.126	0.255
12	GW	5	56.1	52.338	52.338	49.750	55.918	91.754	88.681	99.676	5	2.631	5.028	5.028	1	0.488	0.033
16	GW	5	56.1	59.753	59.753	50.838	71.956	101.598	90.619	128.263	5	8.610	14.409	14.409	1	0.661	0.397
20	GW	40	56.1	51.055	51.055	28.892	79.020	90.181	83.422	95.686	33	10.978	21.502	21.502	1	0.096	0.006
2	RW	5	56.1	52.542	52.542	44.030	66.160	83.316	78.485	117.932	5	10.383	19.762	19.762	1	0.105	0.486
4	RW	5	56.1	61.419	61.419	38.708	83.382	114.758	68.999	148.631	3	17.530	28.542	28.542	1	0.948	0.535
5	RW	5	56.1	57.936	57.936	49.960	68.440	96.328	89.055	121.996	5	7.887	13.613	13.613	1	0.368	0.630
6	RW	5	56.1	50.720	50.720	46.900	54.800	90.553	83.601	97.683	5	3.620	7.138	7.138	1	0.342	0.029
10	RW	5	56.1	54.438	54.438	48.252	63.909	94.008	86.011	113.920	5	5.991	11.005	11.005	1	0.604	0.569
11	RW	5	56.1	56.301	56.301	51.204	63.472	94.845	91.273	113.141	5	5.413	9.615	9.615	1	0.213	0.938
12	RW	5	56.1	51.499	51.499	48.264	57.790	89.316	86.032	103.012	5	3.966	7.700	7.700	1	0.255	0.060
16	RW	5	56.1	57.410	57.410	47.839	67.500	95.643	85.274	120.322	5	8.289	14.439	14.439	1	0.429	0.742
20	RW	40	56.1	55.283	55.283	38.708	83.382	94.838	90.553	99.890	38	8.812	15.940	15.940	1	0.020	0.561

Table A-65 (continued): FtS 4:2 Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	56.1	40.388	40.388	31.230	57.030	66.952	55.668	101.658	2	10.016	24.800	24.800	1	0.286	0.025
4	SW	5	56.1	50.046	50.046	37.949	62.271	86.977	67.646	110.999	4	9.553	19.088	19.088	1	0.959	0.229
5	SW	5	56.1	63.152	63.152	51.480	74.480	120.428	91.765	132.763	4	10.466	16.572	16.572	1	0.228	0.206
6	SW	5	56.1	59.340	59.340	54.100	64.100	105.882	96.435	114.260	5	3.669	6.183	6.183	1	0.976	0.120
10	SW	5	56.1	44.319	44.319	40.148	48.624	80.501	71.564	86.673	5	3.593	8.107	8.107	1	0.605	0.002
11	SW	5	56.1	48.297	48.297	44.428	51.201	89.183	79.195	91.267	5	3.474	7.193	7.193	1	0.043	0.007
12	SW	5	56.1	51.564	51.564	48.550	60.138	88.424	86.542	107.198	5	4.822	9.351	9.351	1	0.003	0.103
16	SW	5	56.1	56.793	56.793	51.342	63.580	101.243	91.519	113.333	5	5.056	8.903	8.903	1	0.742	0.775
20	SW	40	56.1	51.737	51.737	31.230	74.480	91.263	86.673	100.531	35	9.627	18.608	18.608	1	0.991	0.007
2	WW	5	56.1	47.630	47.630	38.420	52.760	88.841	68.485	94.046	4	5.825	12.229	12.229	1	0.346	0.031
4	WW	5	56.1	55.356	55.356	34.499	74.842	87.232	61.496	133.409	2	18.122	32.738	32.738	1	0.280	0.931
5	WW	5	56.1	73.948	73.948	54.760	87.020	141.925	97.611	155.116	2	13.897	18.793	18.793	1	0.379	0.045
6	WW	5	56.1	57.140	57.140	47.300	69.900	98.574	84.314	124.599	5	8.266	14.466	14.466	1	0.712	0.792
10	WW	4	56.1	45.552	45.552	43.988	48.364	80.087	78.411	86.210	4	2.063	4.529	4.529	1	0.250	0.002
11	WW	5	56.1	50.711	50.711	43.252	57.336	87.155	77.098	102.203	5	5.779	11.397	11.397	1	0.592	0.105
12	WW	5	56.1	52.628	52.628	47.198	59.980	91.483	84.132	106.916	5	5.629	10.696	10.696	1	0.418	0.240
16	WW	5	56.1	58.059	58.059	50.969	63.586	102.865	90.854	113.344	5	5.068	8.729	8.729	1	0.780	0.436
20	WW	39	56.1	55.374	55.374	34.499	87.020	94.046	87.155	102.203	32	12.009	21.686	21.686	1	0.008	0.708

Table A-66: NEtFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	43.666	43.666	13.380	61.440	94.783	22.300	102.400	3	22.281	51.026	51.026	0	0.101	0.177
4	GW	5	60	46.561	46.561	32.814	62.041	82.763	54.689	103.402	3	11.353	24.384	24.384	1	0.774	0.057
5	GW	5	60	81.384	81.384	52.680	109.640	133.633	87.800	182.733	2	21.664	26.620	26.620	1	0.998	0.092
6	GW	5	60	51.840	51.840	49.200	55.700	85.500	82.000	92.833	5	2.514	4.849	4.849	1	0.736	0.002
10	GW	5	60	58.519	58.519	54.527	60.917	98.993	90.878	101.528	5	2.679	4.579	4.579	1	0.409	0.284
11	GW	5	60	67.322	62.478	53.724	73.995	104.285	89.539	123.325	5	8.033	11.933	12.858	1	0.821	0.528
12	GW	5	60	49.956	49.956	45.334	55.110	83.650	75.557	91.850	5	4.284	8.576	8.576	1	0.516	0.006
16	GW	5	60	74.138	74.138	66.425	88.094	120.223	110.708	146.824	4	8.542	11.521	11.521	1	0.345	0.021
20	GW	40	60	59.173	58.568	13.380	109.640	94.324	87.833	102.400	32	17.297	29.231	29.161	1	0.060	0.599
2	RW	5	60	53.186	53.186	46.190	61.310	89.017	76.983	102.183	5	5.447	10.242	10.242	1	0.737	0.049
4	RW	5	60	42.997	42.997	28.399	55.878	81.002	47.332	93.129	3	11.778	27.393	27.393	1	0.371	0.032
5	RW	5	60	76.092	76.092	56.080	117.320	118.567	93.467	195.533	4	23.917	31.431	31.431	1	0.071	0.207
6	RW	5	60	56.400	56.400	52.100	60.900	93.167	86.833	101.500	5	3.211	5.693	5.693	1	0.932	0.066
10	RW	5	60	60.953	60.953	54.311	75.182	97.608	90.518	125.303	5	8.413	13.802	13.802	1	0.130	0.813
11	RW	5	60	58.022	56.831	49.999	62.324	97.045	83.331	103.874	5	5.267	9.078	9.268	1	0.558	0.250
12	RW	5	60	49.398	49.398	42.156	59.484	79.493	70.260	99.140	5	7.502	15.186	15.186	1	0.472	0.034
16	RW	5	60	67.292	67.292	56.083	76.320	115.072	93.471	127.200	5	7.353	10.928	10.928	1	0.690	0.091
20	RW	40	60	58.042	57.894	28.399	117.320	93.317	89.483	101.355	37	13.936	24.010	24.082	1	0.000	0.345

Table A-66 (continued): NEtFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	45.174	45.174	32.520	66.610	58.900	54.200	111.017	2	15.448	34.196	34.196	1	0.110	0.098
4	SW	5	60	53.285	53.285	15.844	75.669	95.372	26.406	126.115	4	22.497	42.219	42.219	1	0.277	0.541
5	SW	5	60	82.328	82.328	70.920	100.960	127.733	118.200	168.267	3	12.259	14.891	14.891	1	0.389	0.015
6	SW	5	60	62.720	62.720	60.600	65.300	104.667	101.000	108.833	5	1.725	2.751	2.751	1	0.840	0.024
10	SW	5	60	52.273	52.273	49.122	58.457	85.116	81.869	97.428	5	3.589	6.866	6.866	1	0.063	0.009
11	SW	5	60	58.537	55.114	50.050	61.723	89.358	83.417	102.872	5	4.417	7.546	8.015	1	0.763	0.069
12	SW	5	60	51.622	51.622	44.882	59.838	84.813	74.803	99.730	5	5.456	10.570	10.570	1	0.853	0.026
16	SW	5	60	72.677	72.677	65.231	83.581	115.204	108.719	139.301	4	7.697	10.591	10.591	1	0.413	0.021
20	SW	40	60	59.827	59.399	15.844	100.960	98.579	88.820	105.906	33	15.520	25.942	26.261	1	0.414	0.809
2	WW	5	60	56.310	56.310	36.130	69.440	90.933	60.217	115.733	4	13.312	23.640	23.640	1	0.439	0.569
4	WW	5	60	44.547	44.547	30.558	59.178	73.517	50.930	98.630	4	10.236	22.978	22.978	1	0.805	0.028
5	WW	5	60	95.544	95.544	81.760	107.160	163.467	136.267	178.600	0	10.556	11.049	11.049	1	0.706	0.002
6	WW	5	60	63.900	63.900	58.500	71.600	103.500	97.500	119.333	5	4.915	7.691	7.691	1	0.564	0.151
10	WW	4	60	55.849	55.849	50.915	61.079	92.835	84.859	101.799	4	4.384	7.850	7.850	1	0.961	0.155
11	WW	5	60	62.309	56.160	50.838	64.319	89.969	84.729	107.198	5	6.106	9.799	10.872	1	0.246	0.232
12	WW	5	60	57.274	57.274	48.342	62.738	94.900	80.570	104.563	5	5.663	9.887	9.887	1	0.383	0.342
16	WW	5	60	70.000	70.000	64.102	78.023	113.097	106.837	130.038	4	6.262	8.946	8.946	1	0.303	0.023
20	WW	39	60	63.406	62.617	30.558	107.160	101.799	94.667	108.093	31	16.220	25.582	26.203	1	0.020	0.325

Table A-67: NMeFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	60	47.760	47.760	34.900	61.350	81.700	58.167	102.250	3	10.212	21.382	21.382	1	0.972	0.055
4	GW	5	60	69.456	69.456	45.962	91.167	111.034	76.604	151.945	3	17.926	25.809	25.809	1	0.896	0.304
5	GW	5	60	55.048	55.048	40.060	63.980	92.600	66.767	106.633	4	9.698	17.618	17.618	1	0.441	0.317
6	GW	5	60	50.300	50.300	48.000	54.700	82.833	80.000	91.167	5	2.597	5.163	5.163	1	0.171	0.001
10	GW	5	60	56.852	56.852	52.711	61.164	93.944	87.852	101.940	5	3.046	5.357	5.357	1	0.817	0.082
11	GW	5	60	68.261	63.943	52.365	77.422	96.725	87.275	129.036	5	11.422	16.733	17.862	1	0.183	0.483
12	GW	5	60	51.103	51.103	45.796	58.776	82.920	76.327	97.960	5	5.286	10.343	10.343	1	0.656	0.020
16	GW	5	60	66.172	66.172	61.828	78.624	105.075	103.047	131.039	4	7.019	10.607	10.607	1	0.005	0.121
20	GW	40	60	58.119	57.579	34.900	91.167	93.869	87.333	101.940	34	11.981	20.614	20.135	1	0.069	0.194
2	RW	5	60	60.060	60.060	47.120	69.400	102.100	78.533	115.667	5	9.194	15.308	15.308	1	0.678	0.989
4	RW	5	60	55.373	55.373	34.537	72.982	91.330	57.561	121.636	3	17.555	31.704	31.704	1	0.335	0.587
5	RW	5	60	72.116	72.116	56.080	88.460	114.833	93.467	147.433	3	15.333	21.262	21.262	1	0.212	0.152
6	RW	5	60	55.780	55.780	53.400	57.600	94.000	89.000	96.000	5	1.882	3.374	3.374	1	0.329	0.007
10	RW	5	60	60.392	60.392	55.043	72.420	98.441	91.738	120.700	5	6.987	11.570	11.570	1	0.061	0.906
11	RW	5	60	59.743	57.253	50.764	65.475	91.901	84.607	109.126	5	6.007	10.054	10.491	1	0.669	0.364
12	RW	5	60	50.759	50.759	44.012	60.116	81.203	73.353	100.193	5	6.086	11.991	11.991	1	0.691	0.027
16	RW	5	60	61.780	61.780	54.129	72.870	103.107	90.216	121.450	5	7.545	12.212	12.212	1	0.651	0.626
20	RW	40	60	59.500	59.189	34.537	88.460	94.750	91.617	102.100	36	10.866	18.263	18.401	1	0.067	0.640

Table A-67 (continued): NMeFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	60	44.398	44.398	23.990	57.920	75.217	39.983	96.533	4	12.738	28.690	28.690	1	0.526	0.052
4	SW	5	60	56.405	56.405	44.819	67.063	90.793	74.699	111.771	5	8.555	15.167	15.167	1	0.884	0.401
5	SW	5	60	85.804	85.804	60.320	131.400	111.100	100.533	219.000	3	32.223	37.555	37.555	1	0.116	0.148
6	SW	5	60	58.700	58.700	57.500	60.200	98.167	95.833	100.333	5	1.056	1.799	1.799	1	0.748	0.051
10	SW	5	60	51.302	51.302	49.208	55.235	84.839	82.013	92.058	5	2.320	4.522	4.522	1	0.153	0.001
11	SW	5	60	59.034	55.418	52.904	58.175	91.276	88.174	96.958	5	2.179	3.691	3.932	1	0.688	0.009
12	SW	5	60	53.906	53.906	47.588	60.270	89.070	79.313	100.450	5	4.958	9.197	9.197	1	0.976	0.051
16	SW	5	60	66.750	66.750	56.642	88.466	104.731	94.403	147.443	4	12.629	18.920	18.920	1	0.088	0.298
20	SW	40	60	59.537	59.085	23.990	131.400	95.178	89.207	98.333	36	17.010	28.570	28.884	1	0.000	0.736
2	WW	5	60	56.250	56.250	30.090	74.350	93.017	50.150	123.917	4	17.460	31.040	31.040	1	0.676	0.656
4	WW	5	60	68.870	68.870	60.556	80.585	113.576	100.927	134.308	4	8.412	12.214	12.214	1	0.593	0.078
5	WW	5	60	74.296	74.296	56.080	117.540	101.000	93.467	195.900	4	25.588	34.440	34.440	1	0.057	0.280
6	WW	5	60	53.960	53.960	48.000	59.300	90.500	80.000	98.833	5	4.046	7.498	7.498	1	0.754	0.029
10	WW	4	60	53.575	53.575	50.143	56.975	89.319	83.572	94.959	4	3.565	6.654	6.654	1	0.149	0.037
11	WW	5	60	59.274	52.318	46.544	63.049	85.314	77.573	105.081	5	6.497	10.960	12.418	1	0.278	0.057
12	WW	5	60	56.626	56.626	51.064	61.630	93.033	85.107	102.717	5	4.329	7.645	7.645	1	0.750	0.156
16	WW	5	60	61.731	61.731	53.171	73.578	103.163	88.619	122.631	5	7.538	12.210	12.210	1	0.570	0.635
20	WW	39	60	60.752	59.860	30.090	117.540	94.959	90.593	102.512	36	13.160	21.663	22.503	1	0.000	0.949

Table A-68: M2PFTeDA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	117.004	111.760	125.510	71.838	69.850	78.444	4	5.308	4.537	1	0.435	0.000
4	GW	5	160	128.812	108.373	152.583	82.271	67.733	95.364	3	19.858	15.416	1	0.369	0.025
5	GW	5	160	159.688	141.760	172.920	101.150	88.600	108.075	5	12.294	7.699	1	0.828	0.957
6	GW	5	160	143.600	136.000	150.000	88.750	85.000	93.750	5	5.857	4.078	1	0.531	0.003
10	GW	5	160	156.031	139.420	161.395	99.652	87.138	100.872	5	9.349	5.991	1	0.003	0.396
11	GW	5	160	191.104	181.680	199.803	120.906	113.550	124.877	5	7.005	3.665	1	0.832	0.001
12	GW	5	160	133.654	108.166	153.812	85.743	67.604	96.133	4	19.540	14.620	1	0.579	0.039
16	GW	5	160	142.642	55.994	196.104	95.728	34.996	122.565	4	52.767	36.992	1	0.396	0.503
20	GW	40	160	146.567	55.994	199.803	93.335	87.138	99.262	35	29.426	20.077	1	0.201	0.006
2	RW	5	160	121.744	101.830	134.820	75.606	63.644	84.263	4	13.822	11.353	1	0.454	0.003
4	RW	5	160	128.418	87.467	173.238	84.419	54.667	108.274	3	32.022	24.936	1	0.875	0.092
5	RW	5	160	164.944	130.820	194.140	103.788	81.763	121.338	5	22.611	13.708	1	0.592	0.650
6	RW	5	160	156.200	139.000	165.000	99.375	86.875	103.125	5	10.354	6.629	1	0.231	0.458
10	RW	5	160	171.096	160.434	177.854	107.447	100.272	111.159	5	6.967	4.072	1	0.588	0.024
11	RW	5	160	189.742	166.849	204.865	120.617	104.281	128.041	5	13.980	7.368	1	0.313	0.009
12	RW	5	160	146.732	130.900	175.608	91.270	81.813	109.755	5	18.214	12.413	1	0.295	0.179
16	RW	5	160	199.544	162.148	300.779	111.416	101.343	187.987	4	57.231	28.681	1	0.009	0.197
20	RW	40	160	159.802	87.467	300.779	102.100	91.270	107.081	36	35.438	22.176	1	0.001	0.972

Table A-68 (continued): M2PFTeDA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	107.818	65.000	135.910	70.113	40.625	84.944	3	25.992	24.107	1	0.207	0.011
4	SW	5	160	144.433	107.654	164.636	92.132	67.284	102.898	4	21.986	15.222	1	0.225	0.189
5	SW	5	160	168.356	154.340	189.740	102.038	96.463	118.588	5	13.607	8.082	1	0.545	0.242
6	SW	5	160	133.800	122.000	143.000	86.250	76.250	89.375	5	9.628	7.196	1	0.215	0.004
10	SW	5	160	161.497	151.396	174.194	100.825	94.622	108.871	5	8.244	5.105	1	0.648	0.706
11	SW	5	160	194.402	180.470	211.104	119.394	112.794	131.940	4	13.635	7.014	1	0.404	0.005
12	SW	5	160	138.828	111.074	183.812	80.623	69.421	114.883	4	28.429	20.478	1	0.501	0.171
16	SW	5	160	144.064	84.987	183.161	94.157	53.117	114.476	4	40.222	27.920	1	0.608	0.426
20	SW	40	160	149.150	65.000	211.104	94.390	86.250	101.232	34	31.947	21.420	1	0.845	0.038
2	WW	5	160	119.474	82.180	150.710	76.075	51.363	94.194	3	27.897	23.350	1	0.839	0.031
4	WW	5	160	113.044	87.402	137.266	70.496	54.626	85.791	3	18.023	15.943	1	0.922	0.004
5	WW	5	160	152.664	147.880	159.300	94.688	92.425	99.563	5	4.436	2.906	1	0.789	0.021
6	WW	5	160	150.600	144.000	156.000	95.625	90.000	97.500	5	4.930	3.273	1	0.490	0.013
10	WW	4	160	161.754	155.787	169.855	100.430	97.367	106.160	4	6.003	3.711	1	0.762	0.600
11	WW	5	160	193.243	186.018	206.647	118.568	116.261	129.154	5	8.216	4.252	1	0.262	0.001
12	WW	5	160	147.603	131.954	178.536	85.376	82.471	111.585	5	19.615	13.289	1	0.154	0.230
16	WW	5	160	192.466	155.481	226.921	119.948	97.176	141.826	3	29.536	15.346	1	0.810	0.070
20	WW	39	160	153.654	82.180	226.921	95.625	91.875	99.563	33	32.423	21.101	1	0.648	0.229

Table A-69: MPFDoA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	132.184	114.280	149.070	82.406	71.425	93.169	5	12.345	9.339	1	0.540	0.007
4	GW	5	160	161.593	153.579	170.819	100.280	95.987	106.762	5	7.048	4.362	1	0.820	0.640
5	GW	5	160	170.476	145.660	183.200	108.750	91.038	114.500	5	14.406	8.450	1	0.064	0.179
6	GW	5	160	149.400	141.000	156.000	95.000	88.125	97.500	5	6.542	4.379	1	0.387	0.022
10	GW	5	160	157.276	133.434	166.757	101.496	83.396	104.223	5	13.776	8.759	1	0.040	0.681
11	GW	5	160	182.250	176.537	188.984	113.104	110.336	118.115	5	5.147	2.824	1	0.723	0.001
12	GW	5	160	136.855	122.346	168.020	80.400	76.466	105.013	5	19.129	13.978	1	0.147	0.054
16	GW	5	160	165.051	131.058	181.799	110.852	81.911	113.624	5	21.278	12.892	1	0.131	0.624
20	GW	40	160	156.886	114.280	188.984	98.482	93.169	105.013	40	20.173	12.859	1	0.137	0.335
2	RW	5	160	145.582	126.530	164.700	87.400	79.081	102.938	5	17.006	11.681	1	0.338	0.131
4	RW	5	160	160.405	152.402	166.921	101.686	95.252	104.326	5	5.665	3.532	1	0.718	0.881
5	RW	5	160	173.556	157.140	186.060	107.400	98.213	116.288	5	12.153	7.003	1	0.548	0.067
6	RW	5	160	158.000	153.000	164.000	98.750	95.625	102.500	5	4.062	2.571	1	0.925	0.333
10	RW	5	160	161.285	151.234	174.851	100.121	94.521	109.282	5	8.774	5.440	1	0.793	0.760
11	RW	5	160	167.371	157.818	177.129	106.693	98.636	110.706	5	8.179	4.887	1	0.436	0.114
12	RW	5	160	129.389	112.650	149.338	76.770	70.406	93.336	5	15.464	11.952	1	0.488	0.011
16	RW	5	160	190.096	156.323	244.344	118.845	97.702	152.715	4	34.883	18.350	1	0.488	0.126
20	RW	40	160	160.710	112.650	244.344	100.047	98.132	102.500	39	22.529	14.018	1	0.002	0.843

Table A-69 (continued): MPFDoA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	121.246	108.840	141.210	72.350	68.025	88.256	4	12.662	10.443	1	0.434	0.002
4	SW	5	160	157.060	151.512	161.868	99.263	94.695	101.167	5	4.995	3.180	1	0.140	0.259
5	SW	5	160	175.556	168.180	195.640	106.675	105.113	122.275	5	11.417	6.503	1	0.013	0.038
6	SW	5	160	164.600	150.000	173.000	105.625	93.750	108.125	5	9.072	5.512	1	0.289	0.320
10	SW	5	160	157.950	151.051	169.235	97.899	94.407	105.772	5	6.754	4.276	1	0.189	0.535
11	SW	5	160	169.724	158.373	178.778	107.016	98.983	111.736	5	8.181	4.820	1	0.846	0.057
12	SW	5	160	132.912	116.684	175.474	78.233	72.928	109.671	5	24.061	18.103	1	0.008	0.066
16	SW	5	160	195.612	133.902	239.434	126.787	83.689	149.647	3	40.898	20.908	1	0.802	0.123
20	SW	40	160	159.333	108.840	239.434	100.942	94.970	105.772	37	27.920	17.523	1	0.045	0.881
2	WW	5	160	141.012	123.520	162.520	85.000	77.200	101.575	5	18.222	12.922	1	0.230	0.080
4	WW	5	160	155.107	141.273	172.161	95.884	88.296	107.601	5	12.193	7.861	1	0.908	0.420
5	WW	5	160	170.592	166.300	180.940	104.750	103.938	113.088	5	6.208	3.639	1	0.070	0.019
6	WW	5	160	162.800	154.000	168.000	101.875	96.250	105.000	5	5.541	3.403	1	0.409	0.322
10	WW	4	160	159.786	153.123	168.642	99.181	95.702	105.401	4	6.533	4.088	1	0.750	0.952
11	WW	5	160	176.810	163.880	193.327	108.345	102.425	120.830	5	12.331	6.974	1	0.626	0.038
12	WW	5	160	144.838	113.742	177.280	87.225	71.089	110.800	5	23.707	16.368	1	0.942	0.226
16	WW	5	160	209.346	170.233	251.558	130.918	106.396	157.224	2	30.697	14.663	1	0.998	0.023
20	WW	39	160	165.171	113.742	251.558	102.425	98.656	105.401	36	25.737	15.582	1	0.009	0.217

Table A-70: M7PFUdA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	142.460	119.940	168.160	88.538	74.963	105.100	5	17.169	12.052	1	0.559	0.084
4	GW	5	160	172.932	166.270	195.122	104.911	103.919	121.951	5	12.427	7.186	1	0.001	0.081
5	GW	5	160	171.688	150.200	187.460	108.763	93.875	117.163	5	16.002	9.320	1	0.532	0.178
6	GW	5	160	154.600	138.000	164.000	98.125	86.250	102.500	5	10.644	6.885	1	0.401	0.320
10	GW	5	160	162.475	138.888	176.982	103.651	86.805	110.614	5	14.338	8.825	1	0.380	0.719
11	GW	5	160	188.106	176.739	199.690	117.149	110.462	124.806	5	9.911	5.269	1	0.606	0.003
12	GW	5	160	153.525	135.750	165.270	97.974	84.844	103.294	5	11.416	7.436	1	0.648	0.273
16	GW	5	160	158.497	113.006	208.237	93.551	70.629	130.148	4	39.253	24.766	1	0.761	0.936
20	GW	40	160	163.035	113.006	208.237	102.897	97.974	105.152	39	21.608	13.254	1	0.935	0.380
2	RW	5	160	156.496	112.980	189.080	101.050	70.613	118.175	5	28.049	17.923	1	0.751	0.794
4	RW	5	160	169.031	139.882	182.049	108.158	87.426	113.781	5	16.783	9.929	1	0.046	0.295
5	RW	5	160	184.892	172.420	198.500	113.900	107.763	124.063	5	9.720	5.257	1	0.892	0.005
6	RW	5	160	159.800	155.000	173.000	98.125	96.875	108.125	5	7.563	4.733	1	0.019	0.956
10	RW	5	160	165.874	150.812	173.227	105.035	94.258	108.267	5	9.202	5.548	1	0.203	0.227
11	RW	5	160	165.385	160.111	170.304	103.599	100.070	106.440	5	4.092	2.474	1	0.918	0.042
12	RW	5	160	143.233	124.418	169.848	86.749	77.761	106.155	5	18.013	12.576	1	0.749	0.106
16	RW	5	160	171.250	136.537	186.261	111.462	85.335	116.413	5	20.019	11.690	1	0.052	0.277
20	RW	40	160	164.495	112.980	198.500	105.048	100.070	108.114	40	18.468	11.227	1	0.098	0.132

Table A-70 (continued): M7PFUdA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	136.148	121.250	149.320	83.413	75.781	93.325	5	11.989	8.806	1	0.535	0.011
4	SW	5	160	168.983	158.169	178.046	105.180	98.856	111.279	5	7.902	4.676	1	0.868	0.064
5	SW	5	160	173.788	145.340	191.600	109.363	90.838	119.750	5	17.332	9.973	1	0.326	0.150
6	SW	5	160	170.600	158.000	179.000	108.750	98.750	111.875	5	8.849	5.187	1	0.449	0.055
10	SW	5	160	160.827	154.823	173.551	99.114	96.764	108.470	5	7.629	4.744	1	0.159	0.820
11	SW	5	160	179.636	173.189	185.788	113.109	108.243	116.117	5	5.827	3.244	1	0.275	0.002
12	SW	5	160	138.964	126.880	147.332	89.999	79.300	92.083	5	9.881	7.111	1	0.092	0.009
16	SW	5	160	173.493	154.411	191.724	109.275	96.507	119.827	5	17.416	10.039	1	0.279	0.158
20	SW	40	160	162.805	121.250	191.724	103.234	97.152	109.188	40	18.819	11.559	1	0.096	0.352
2	WW	5	160	160.706	121.030	202.070	102.375	75.644	126.294	5	29.514	18.365	1	0.932	0.960
4	WW	5	160	172.573	158.879	188.372	107.971	99.299	117.733	5	13.108	7.596	1	0.452	0.099
5	WW	5	160	175.364	131.460	199.760	112.475	82.163	124.850	5	26.694	15.222	1	0.323	0.268
6	WW	5	160	157.400	154.000	161.000	98.750	96.250	100.625	5	2.608	1.657	1	0.872	0.090
10	WW	4	160	162.400	153.049	170.120	102.010	95.656	106.325	4	7.045	4.338	1	0.723	0.545
11	WW	5	160	188.420	182.951	196.059	117.763	114.344	122.537	5	4.855	2.577	1	0.598	0.000
12	WW	5	160	155.491	140.006	169.826	100.669	87.504	106.141	5	12.659	8.142	1	0.430	0.470
16	WW	5	160	177.399	157.101	198.441	110.231	98.188	124.026	5	17.646	9.947	1	0.665	0.092
20	WW	39	160	168.881	121.030	202.070	102.375	100.625	112.475	39	19.047	11.278	1	0.405	0.006

Table A-71: M6PFDA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	136.744	121.740	152.000	88.763	76.088	95.000	5	13.185	9.642	1	0.355	0.017
4	GW	5	160	177.490	158.902	188.740	115.658	99.314	117.962	5	13.128	7.396	1	0.182	0.041
5	GW	5	160	169.956	159.980	191.360	101.338	99.988	119.600	5	13.556	7.976	1	0.101	0.176
6	GW	5	160	157.200	145.000	167.000	99.375	90.625	104.375	5	7.950	5.057	1	0.607	0.475
10	GW	5	160	165.683	144.393	177.655	106.034	90.246	111.035	5	13.359	8.063	1	0.390	0.395
11	GW	5	160	200.214	189.743	213.235	123.082	118.590	133.272	4	8.988	4.489	1	0.776	0.001
12	GW	5	160	167.322	150.856	197.190	98.500	94.285	123.244	5	18.804	11.238	1	0.246	0.433
16	GW	5	160	154.238	133.958	177.121	92.954	83.724	110.700	5	16.592	10.758	1	0.845	0.481
20	GW	40	160	166.106	121.740	213.235	101.216	98.500	109.350	39	21.414	12.892	1	0.816	0.079
2	RW	5	160	158.470	154.630	164.410	97.200	96.644	102.756	5	4.672	2.948	1	0.069	0.505
4	RW	5	160	171.558	147.254	192.999	106.119	92.034	120.624	5	17.396	10.140	1	0.960	0.212
5	RW	5	160	174.964	158.080	185.400	112.600	98.800	115.875	5	11.810	6.750	1	0.303	0.047
6	RW	5	160	154.800	151.000	162.000	95.625	94.375	101.250	5	4.266	2.756	1	0.150	0.053
10	RW	5	160	167.300	151.347	176.825	108.159	94.592	110.516	5	11.145	6.662	1	0.221	0.217
11	RW	5	160	184.857	180.131	189.737	115.506	112.582	118.586	5	3.868	2.092	1	0.919	0.000
12	RW	5	160	149.584	128.264	180.148	92.354	80.165	112.593	5	19.800	13.236	1	0.754	0.305
16	RW	5	160	158.637	143.031	186.895	93.131	89.394	116.810	5	18.412	11.607	1	0.234	0.877
20	RW	40	160	165.021	128.264	192.999	102.206	96.875	109.580	40	16.206	9.821	1	0.187	0.057

Table A-71 (continued): M6PFDA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	134.348	116.480	144.190	87.519	72.800	90.119	5	11.364	8.459	1	0.259	0.007
4	SW	5	160	179.255	168.847	190.890	112.832	105.530	119.306	5	8.316	4.639	1	0.933	0.007
5	SW	5	160	180.956	170.700	191.820	112.450	106.688	119.888	5	8.732	4.826	1	0.800	0.006
6	SW	5	160	167.600	155.000	176.000	105.000	96.875	110.000	5	8.325	4.967	1	0.656	0.111
10	SW	5	160	163.228	155.049	177.058	101.431	96.905	110.661	5	8.528	5.225	1	0.411	0.445
11	SW	5	160	197.352	187.743	211.543	123.073	117.340	132.214	4	9.309	4.717	1	0.692	0.001
12	SW	5	160	152.717	139.786	166.360	94.653	87.366	103.975	5	10.477	6.860	1	0.957	0.195
16	SW	5	160	170.972	142.536	196.121	111.287	89.085	122.575	5	23.018	13.463	1	0.520	0.347
20	SW	40	160	168.303	116.480	211.543	106.109	99.673	111.287	39	21.084	12.527	1	0.929	0.017
2	WW	5	160	141.358	130.600	155.960	88.981	81.625	97.475	5	9.612	6.800	1	0.678	0.012
4	WW	5	160	185.335	173.435	197.656	114.314	108.397	123.535	5	9.340	5.040	1	0.911	0.004
5	WW	5	160	175.272	161.920	187.840	108.513	101.200	117.400	5	10.769	6.144	1	0.740	0.034
6	WW	5	160	164.600	153.000	172.000	103.125	95.625	107.500	5	7.701	4.678	1	0.553	0.253
10	WW	4	160	163.629	155.274	168.938	103.220	97.046	105.586	4	5.854	3.578	1	0.321	0.303
11	WW	5	160	200.083	193.508	210.271	124.130	120.943	131.420	4	6.325	3.161	1	0.535	0.000
12	WW	5	160	153.384	141.102	170.574	92.518	88.189	106.609	5	12.473	8.132	1	0.437	0.301
16	WW	5	160	169.447	153.927	186.131	109.035	96.204	116.332	5	14.168	8.361	1	0.342	0.210
20	WW	39	160	169.280	130.600	210.271	105.586	101.250	110.816	38	19.681	11.626	1	0.875	0.005

Table A-72: M9PFNA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	137.912	106.330	156.720	88.394	66.456	97.950	4	19.577	14.196	1	0.462	0.065
4	GW	5	160	188.898	171.385	216.194	111.382	107.116	135.121	4	20.219	10.704	1	0.179	0.033
5	GW	5	160	167.112	155.740	184.260	101.000	97.338	115.163	5	11.497	6.880	1	0.455	0.239
6	GW	5	160	148.000	141.000	152.000	93.750	88.125	95.000	5	4.848	3.275	1	0.235	0.005
10	GW	5	160	163.302	135.716	176.944	105.354	84.823	110.590	5	15.982	9.787	1	0.069	0.668
11	GW	5	160	193.005	182.966	201.707	122.333	114.353	126.067	5	7.890	4.088	1	0.572	0.001
12	GW	5	160	146.362	135.214	163.238	90.914	84.509	102.024	5	11.145	7.615	1	0.652	0.052
16	GW	5	160	149.650	125.586	179.915	96.473	78.491	112.447	5	23.277	15.555	1	0.466	0.376
20	GW	40	160	161.780	106.330	216.194	100.700	94.063	107.116	38	23.834	14.732	1	0.990	0.639
2	RW	5	160	153.596	132.660	174.290	93.825	82.913	108.931	5	17.137	11.157	1	0.764	0.450
4	RW	5	160	175.782	146.233	194.506	110.815	91.395	121.567	5	18.844	10.720	1	0.574	0.134
5	RW	5	160	172.968	156.500	183.800	112.100	97.813	114.875	5	12.696	7.340	1	0.142	0.084
6	RW	5	160	153.600	150.000	161.000	95.000	93.750	100.625	5	4.393	2.860	1	0.155	0.031
10	RW	5	160	164.042	161.118	167.077	102.668	100.699	104.423	5	2.799	1.706	1	0.255	0.032
11	RW	5	160	186.142	177.585	190.019	117.121	110.991	118.762	5	4.961	2.665	1	0.070	0.000
12	RW	5	160	143.457	135.154	152.272	88.825	84.471	95.170	5	7.502	5.229	1	0.504	0.008
16	RW	5	160	155.803	123.692	196.935	94.339	77.308	123.084	5	26.553	17.042	1	0.651	0.742
20	RW	40	160	163.174	123.692	196.935	100.749	95.000	107.341	40	18.633	11.419	1	0.416	0.288

Table A-72 (continued): M9PFNA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	134.930	116.760	153.670	87.631	72.975	96.044	5	15.418	11.427	1	0.558	0.022
4	SW	5	160	170.505	142.308	188.221	106.834	88.943	117.638	5	17.937	10.520	1	0.516	0.260
5	SW	5	160	172.544	164.020	178.720	107.188	102.513	111.700	5	5.921	3.431	1	0.566	0.009
6	SW	5	160	166.200	155.000	176.000	104.375	96.875	110.000	5	7.855	4.726	1	0.986	0.152
10	SW	5	160	163.700	158.011	178.895	99.540	98.757	111.809	5	8.827	5.392	1	0.027	0.402
11	SW	5	160	187.142	169.889	195.839	119.612	106.181	122.399	5	10.137	5.417	1	0.115	0.004
12	SW	5	160	151.629	145.684	160.642	93.221	91.053	100.401	5	6.805	4.488	1	0.236	0.051
16	SW	5	160	177.584	160.311	204.394	107.275	100.195	127.747	5	18.002	10.137	1	0.538	0.094
20	SW	40	160	165.529	116.760	204.394	103.717	99.540	107.188	40	18.898	11.416	1	0.693	0.072
2	WW	5	160	138.742	131.040	149.940	86.756	81.900	93.713	5	7.819	5.635	1	0.577	0.004
4	WW	5	160	179.665	171.382	185.537	115.583	107.114	115.961	5	7.523	4.187	1	0.012	0.004
5	WW	5	160	167.184	161.560	173.940	103.350	100.975	108.713	5	6.100	3.648	1	0.115	0.058
6	WW	5	160	152.200	148.000	156.000	94.375	92.500	97.500	5	3.271	2.149	1	0.544	0.006
10	WW	4	160	161.512	157.223	164.216	101.440	98.264	102.635	4	3.043	1.884	1	0.466	0.394
11	WW	5	160	188.569	184.033	194.990	117.366	115.021	121.869	5	4.019	2.131	1	0.533	0.000
12	WW	5	160	151.310	136.972	160.570	98.453	85.608	100.356	5	10.591	6.999	1	0.160	0.140
16	WW	5	160	155.018	140.485	159.580	98.850	87.803	99.738	5	8.166	5.267	1	0.002	0.244
20	WW	39	160	161.782	131.040	194.990	99.738	98.264	103.350	39	16.775	10.369	1	0.187	0.511

Table A-73: M8PFOA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	136.134	121.980	150.800	83.344	76.238	94.250	5	13.748	10.099	1	0.196	0.018
4	GW	5	160	180.829	167.904	193.966	110.540	104.940	121.229	5	10.882	6.018	1	0.557	0.013
5	GW	5	160	159.408	141.500	173.540	101.925	88.438	108.463	5	12.730	7.986	1	0.807	0.922
6	GW	5	160	152.400	145.000	158.000	95.625	90.625	98.750	5	5.857	3.843	1	0.360	0.044
10	GW	5	160	164.638	141.595	175.170	105.704	88.497	109.481	5	13.233	8.038	1	0.042	0.477
11	GW	5	160	180.331	174.766	188.810	110.740	109.229	118.006	5	5.795	3.214	1	0.344	0.001
12	GW	5	160	152.742	129.304	166.246	97.475	80.815	103.904	5	14.901	9.756	1	0.437	0.337
16	GW	5	160	146.089	131.371	165.769	91.997	82.107	103.606	5	12.909	8.836	1	0.703	0.074
20	GW	40	160	159.071	121.980	193.966	100.338	93.825	104.940	40	18.316	11.514	1	0.661	0.750
2	RW	5	160	166.676	148.680	190.080	97.400	92.925	118.800	5	20.437	12.261	1	0.067	0.506
4	RW	5	160	171.598	154.077	182.657	108.213	96.298	114.161	5	10.603	6.179	1	0.284	0.071
5	RW	5	160	170.888	154.140	186.140	105.938	96.338	116.338	5	11.634	6.808	1	0.853	0.105
6	RW	5	160	151.200	147.000	157.000	94.375	91.875	98.125	5	3.633	2.403	1	0.402	0.006
10	RW	5	160	164.635	156.454	169.343	105.189	97.784	105.839	5	5.754	3.495	1	0.120	0.146
11	RW	5	160	176.972	173.281	179.806	111.035	108.300	112.379	5	2.453	1.386	1	0.820	0.000
12	RW	5	160	138.586	128.496	168.372	80.941	80.310	105.233	5	17.003	12.269	1	0.008	0.048
16	RW	5	160	150.921	128.193	173.525	99.004	80.120	108.453	5	18.448	12.223	1	0.580	0.333
20	RW	40	160	161.435	128.193	190.080	102.805	96.338	107.709	40	17.123	10.607	1	0.073	0.599

Table A-73 (continued): M8PFOA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	144.778	121.410	176.770	86.531	75.881	110.481	5	23.832	16.461	1	0.490	0.226
4	SW	5	160	172.989	157.725	183.998	108.988	98.578	114.999	5	11.130	6.434	1	0.576	0.059
5	SW	5	160	173.556	142.500	202.200	105.150	89.063	126.375	5	24.651	14.203	1	0.709	0.286
6	SW	5	160	163.600	154.000	168.000	103.750	96.250	105.000	5	5.550	3.392	1	0.053	0.221
10	SW	5	160	160.745	152.540	172.265	99.205	95.337	107.666	5	7.470	4.647	1	0.744	0.834
11	SW	5	160	178.175	170.122	187.887	109.700	106.326	117.429	5	7.190	4.035	1	0.691	0.005
12	SW	5	160	145.899	134.836	155.130	89.441	84.273	96.956	5	8.802	6.033	1	0.360	0.023
16	SW	5	160	160.640	141.688	173.154	103.242	88.555	108.221	5	13.248	8.247	1	0.470	0.919
20	SW	40	160	162.548	121.410	202.200	102.871	98.172	106.326	40	17.643	10.854	1	0.914	0.367
2	WW	5	160	153.408	139.400	166.620	93.438	87.125	104.138	5	12.477	8.133	1	0.250	0.303
4	WW	5	160	178.331	172.582	187.044	110.868	107.864	116.902	5	6.192	3.472	1	0.465	0.003
5	WW	5	160	168.492	157.740	183.640	103.600	98.588	114.775	5	9.912	5.883	1	0.755	0.128
6	WW	5	160	154.600	151.000	159.000	97.500	94.375	99.375	5	3.507	2.269	1	0.247	0.026
10	WW	4	160	161.281	158.406	165.673	100.326	99.004	103.546	4	3.275	2.031	1	0.521	0.491
11	WW	5	160	177.178	171.476	186.122	109.949	107.173	116.326	5	5.961	3.365	1	0.575	0.003
12	WW	5	160	149.268	134.522	157.980	94.266	84.076	98.738	5	9.524	6.381	1	0.467	0.065
16	WW	5	160	142.069	138.369	147.984	88.361	86.480	92.490	5	3.781	2.662	1	0.584	0.000
20	WW	39	160	160.560	134.522	187.044	99.375	97.500	104.138	39	14.391	8.963	1	0.439	0.809

Table A-74: M4PFHpA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	144.640	123.550	162.760	89.519	77.219	101.725	5	16.001	11.062	1	0.802	0.098
4	GW	5	160	190.024	167.476	209.188	119.696	104.673	130.743	4	16.059	8.451	1	0.974	0.014
5	GW	5	160	161.832	147.520	174.360	99.500	92.200	108.975	5	10.359	6.401	1	0.789	0.713
6	GW	5	160	150.600	138.000	159.000	94.375	86.250	99.375	5	8.620	5.724	1	0.587	0.071
10	GW	5	160	169.828	144.730	183.096	109.579	90.456	114.435	5	15.179	8.938	1	0.253	0.221
11	GW	5	160	170.005	166.211	175.604	104.947	103.882	109.753	5	4.205	2.473	1	0.222	0.006
12	GW	5	160	149.966	139.564	161.930	91.110	87.228	101.206	5	9.826	6.552	1	0.342	0.084
16	GW	5	160	130.672	113.944	149.452	80.154	71.215	93.407	5	13.583	10.395	1	0.973	0.008
20	GW	40	160	158.446	113.944	209.188	99.375	92.200	104.548	39	20.715	13.074	1	0.975	0.638
2	RW	5	160	161.796	146.440	173.750	102.856	91.525	108.594	5	11.597	7.168	1	0.587	0.747
4	RW	5	160	183.645	165.041	209.348	112.029	103.151	130.843	4	17.185	9.358	1	0.798	0.037
5	RW	5	160	166.044	151.480	181.920	105.713	94.675	113.700	5	13.026	7.845	1	0.536	0.358
6	RW	5	160	150.200	148.000	156.000	93.125	92.500	97.500	5	3.347	2.228	1	0.030	0.003
10	RW	5	160	166.822	160.747	176.007	101.043	100.467	110.004	5	7.644	4.582	1	0.032	0.117
11	RW	5	160	167.405	160.531	171.755	106.812	100.332	107.347	5	5.405	3.229	1	0.058	0.038
12	RW	5	160	143.552	137.428	153.098	87.818	85.893	95.686	5	6.234	4.343	1	0.422	0.004
16	RW	5	160	137.614	124.129	153.527	83.566	77.580	95.954	5	12.208	8.871	1	0.651	0.015
20	RW	40	160	159.635	124.129	209.348	100.400	94.675	105.713	39	17.082	10.700	1	0.666	0.893

Table A-74 (continued): M4PFHpA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	142.988	136.420	154.730	87.200	85.263	96.706	5	7.655	5.353	1	0.290	0.008
4	SW	5	160	172.172	145.155	192.195	108.703	90.722	120.122	5	17.071	9.915	1	0.517	0.186
5	SW	5	160	165.124	160.820	170.180	103.838	100.513	106.363	5	4.177	2.530	1	0.335	0.052
6	SW	5	160	164.400	158.000	175.000	101.875	98.750	109.375	5	6.348	3.861	1	0.232	0.196
10	SW	5	160	164.089	160.166	173.514	101.525	100.104	108.446	5	5.443	3.317	1	0.047	0.168
11	SW	5	160	165.416	162.307	169.933	102.947	101.442	106.208	5	2.928	1.770	1	0.733	0.014
12	SW	5	160	149.068	142.676	157.002	92.411	89.173	98.126	5	6.303	4.228	1	0.463	0.018
16	SW	5	160	141.262	112.558	198.220	79.984	70.349	123.888	5	35.457	25.100	1	0.230	0.303
20	SW	40	160	158.065	112.558	198.220	100.888	96.706	102.500	40	17.410	11.014	1	0.091	0.486
2	WW	5	160	137.704	124.280	145.940	88.963	77.675	91.213	5	9.200	6.681	1	0.295	0.006
4	WW	5	160	178.810	148.420	197.184	115.594	92.763	123.240	5	19.424	10.863	1	0.496	0.096
5	WW	5	160	164.980	154.340	185.880	99.925	96.463	116.175	5	12.414	7.525	1	0.162	0.420
6	WW	5	160	147.400	141.000	152.000	93.750	88.125	95.000	5	5.459	3.703	1	0.071	0.007
10	WW	4	160	160.586	153.242	165.618	101.088	95.776	103.511	4	5.984	3.726	1	0.317	0.857
11	WW	5	160	169.070	161.591	181.672	103.030	100.995	113.545	5	8.877	5.250	1	0.220	0.084
12	WW	5	160	151.906	130.164	163.460	96.214	81.353	102.163	5	13.077	8.609	1	0.240	0.239
16	WW	5	160	121.964	103.563	133.535	76.696	64.727	83.459	4	11.334	9.293	1	0.423	0.002
20	WW	39	160	153.885	103.563	197.184	96.214	92.763	101.380	38	20.450	13.289	1	0.920	0.070

Table A-75: M5PFHxA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	133.064	114.560	155.830	79.706	71.600	97.394	5	16.672	12.529	1	0.733	0.023
4	GW	5	160	182.177	166.034	201.236	113.934	103.771	125.773	5	12.699	6.971	1	0.755	0.017
5	GW	5	160	159.892	131.540	193.780	104.063	82.213	121.113	5	25.915	16.208	1	0.562	0.993
6	GW	5	160	150.600	142.000	158.000	94.375	88.750	98.750	5	5.727	3.803	1	0.680	0.021
10	GW	5	160	160.319	138.090	171.795	103.755	86.307	107.372	5	13.700	8.545	1	0.238	0.961
11	GW	5	160	158.156	152.616	166.311	99.158	95.385	103.945	5	5.393	3.410	1	0.572	0.487
12	GW	5	160	157.252	152.338	163.850	98.258	95.211	102.406	5	4.317	2.745	1	0.797	0.228
16	GW	5	160	132.609	113.904	172.791	75.981	71.190	107.994	5	24.511	18.484	1	0.140	0.067
20	GW	40	160	154.259	113.904	201.236	97.615	94.375	102.406	40	20.839	13.509	1	0.508	0.089
2	RW	5	160	155.462	129.160	184.800	100.813	80.725	115.500	5	22.342	14.372	1	0.737	0.673
4	RW	5	160	177.246	155.634	189.769	113.570	97.271	118.606	5	13.058	7.367	1	0.303	0.042
5	RW	5	160	165.660	139.800	193.760	102.375	87.375	121.100	5	22.363	13.499	1	0.797	0.602
6	RW	5	160	148.000	139.000	155.000	93.125	86.875	96.875	5	5.831	3.940	1	0.727	0.010
10	RW	5	160	161.628	159.592	164.102	101.068	99.745	102.564	5	1.906	1.179	1	0.647	0.129
11	RW	5	160	161.947	156.204	164.182	101.962	97.627	102.614	5	3.244	2.003	1	0.005	0.251
12	RW	5	160	151.846	140.366	160.952	95.099	87.729	100.595	5	7.548	4.971	1	0.827	0.073
16	RW	5	160	134.564	117.304	166.611	76.078	73.315	104.132	5	21.198	15.753	1	0.151	0.055
20	RW	40	160	157.044	117.304	193.760	99.851	94.086	101.962	40	17.987	11.453	1	0.286	0.305

Table A-75 (continued): M5PFHxA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	128.308	108.660	147.420	80.313	67.913	92.138	4	15.791	12.307	1	0.880	0.011
4	SW	5	160	170.554	146.719	190.326	114.256	91.700	118.954	5	21.613	12.672	1	0.055	0.336
5	SW	5	160	176.324	151.940	193.040	113.213	94.963	120.650	5	15.848	8.988	1	0.691	0.083
6	SW	5	160	160.000	148.000	167.000	101.250	92.500	104.375	5	7.778	4.861	1	0.439	1.000
10	SW	5	160	161.997	155.868	170.646	101.664	97.417	106.654	5	5.877	3.628	1	0.623	0.490
11	SW	5	160	157.792	150.441	163.110	100.009	94.026	101.944	5	5.319	3.371	1	0.477	0.406
12	SW	5	160	150.698	144.850	154.462	94.821	90.531	96.539	5	3.910	2.594	1	0.578	0.006
16	SW	5	160	127.064	96.552	169.269	71.673	60.345	105.793	3	29.310	23.067	1	0.586	0.066
20	SW	40	160	154.092	96.552	193.040	96.978	93.043	101.664	37	22.232	14.428	1	0.045	0.101
2	WW	5	160	136.614	125.430	148.050	86.169	78.394	92.531	5	8.554	6.262	1	0.982	0.004
4	WW	5	160	174.536	158.600	185.981	110.009	99.125	116.238	5	10.495	6.013	1	0.821	0.036
5	WW	5	160	159.820	147.380	193.180	95.438	92.113	120.738	5	18.950	11.857	1	0.014	0.984
6	WW	5	160	149.200	144.000	153.000	95.000	90.000	95.625	5	4.324	2.898	1	0.063	0.005
10	WW	4	160	162.426	156.953	169.013	101.168	98.096	105.633	4	5.115	3.149	1	0.926	0.413
11	WW	5	160	161.435	148.826	169.607	102.766	93.016	106.005	5	8.495	5.262	1	0.529	0.725
12	WW	5	160	157.859	153.940	162.604	99.201	96.213	101.628	5	3.725	2.360	1	0.458	0.268
16	WW	5	160	121.694	106.893	132.006	78.218	66.808	82.504	4	11.123	9.140	1	0.349	0.002
20	WW	39	160	152.705	106.893	193.180	96.213	93.016	99.871	38	18.392	12.044	1	0.731	0.018

Table A-76: M5PFPeA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	143.800	128.130	156.540	90.813	80.081	97.838	5	11.044	7.680	1	0.938	0.031
4	GW	5	160	178.080	170.242	187.020	110.037	106.401	116.887	5	7.498	4.210	1	0.382	0.006
5	GW	5	160	156.576	140.860	164.300	101.463	88.038	102.688	5	9.852	6.292	1	0.126	0.480
6	GW	5	160	151.200	143.000	156.000	96.250	89.375	97.500	5	5.891	3.896	1	0.171	0.029
10	GW	5	160	159.321	137.351	171.182	100.825	85.845	106.989	5	12.972	8.142	1	0.152	0.912
11	GW	5	160	144.927	138.190	153.799	89.781	86.369	96.124	5	5.830	4.022	1	0.833	0.004
12	GW	5	160	152.116	147.094	158.560	95.658	91.934	99.100	5	4.773	3.138	1	0.554	0.021
16	GW	5	160	153.886	145.995	162.479	95.774	91.247	101.549	5	6.535	4.247	1	0.947	0.105
20	GW	40	160	154.988	128.130	187.020	96.187	92.323	99.100	40	12.744	8.223	1	0.548	0.017
2	RW	5	160	157.680	144.940	168.430	101.763	90.588	105.269	5	11.584	7.346	1	0.086	0.677
4	RW	5	160	172.521	166.191	176.402	108.139	103.869	110.252	5	3.935	2.281	1	0.490	0.002
5	RW	5	160	174.300	163.020	188.240	108.875	101.888	117.650	5	9.331	5.353	1	0.898	0.027
6	RW	5	160	145.000	142.000	149.000	90.000	88.750	93.125	5	2.915	2.011	1	0.585	0.000
10	RW	5	160	157.969	152.796	162.422	98.604	95.498	101.514	5	3.548	2.246	1	0.925	0.270
11	RW	5	160	147.579	144.743	150.112	92.740	90.465	93.820	5	2.129	1.443	1	0.734	0.000
12	RW	5	160	146.144	141.964	147.814	91.990	88.728	92.384	5	2.406	1.646	1	0.033	0.000
16	RW	5	160	151.806	139.502	174.927	92.029	87.189	109.329	5	13.760	9.064	1	0.211	0.254
20	RW	40	160	156.625	139.502	188.240	94.602	92.029	101.763	40	12.830	8.192	1	0.002	0.104

Table A-76 (continued): M5PFPeA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	144.938	131.220	159.710	88.388	82.013	99.819	5	13.321	9.191	1	0.234	0.065
4	SW	5	160	172.080	159.728	182.432	106.489	99.830	114.020	5	8.771	5.097	1	0.819	0.037
5	SW	5	160	168.824	159.940	185.240	103.738	99.963	115.775	5	10.570	6.261	1	0.320	0.135
6	SW	5	160	160.600	154.000	167.000	101.875	96.250	104.375	5	5.771	3.593	1	0.299	0.828
10	SW	5	160	157.840	148.469	169.626	98.205	92.793	106.016	5	7.580	4.802	1	0.441	0.559
11	SW	5	160	150.418	139.428	161.222	94.121	87.142	100.764	5	7.882	5.240	1	0.942	0.053
12	SW	5	160	150.112	144.180	155.894	94.196	90.113	97.434	5	4.610	3.071	1	0.956	0.009
16	SW	5	160	164.637	157.408	172.222	102.349	98.380	107.639	5	6.717	4.080	1	0.374	0.198
20	SW	40	160	158.681	131.220	185.240	99.113	96.875	101.875	40	11.989	7.555	1	0.960	0.491
2	WW	5	160	149.934	133.710	167.120	93.681	83.569	104.450	5	13.141	8.764	1	0.972	0.162
4	WW	5	160	170.748	163.308	178.791	105.730	102.068	111.745	5	6.578	3.852	1	0.615	0.022
5	WW	5	160	173.984	162.920	188.880	108.300	101.825	118.050	5	9.976	5.734	1	0.861	0.035
6	WW	5	160	150.000	144.000	156.000	93.125	90.000	97.500	5	4.950	3.300	1	0.760	0.011
10	WW	4	160	157.611	150.732	161.356	99.486	94.208	100.847	4	4.854	3.080	1	0.260	0.397
11	WW	5	160	150.793	147.945	153.126	94.337	92.465	95.704	5	1.893	1.255	1	0.869	0.000
12	WW	5	160	154.165	143.082	161.050	97.190	89.426	100.656	5	6.692	4.341	1	0.297	0.123
16	WW	5	160	162.671	152.310	169.572	103.939	95.194	105.983	5	7.260	4.463	1	0.360	0.457
20	WW	39	160	158.767	133.710	188.880	98.494	95.704	102.068	39	11.459	7.218	1	0.908	0.506

Table A-77: MPFBA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	139.456	133.600	143.050	88.400	83.500	89.406	5	3.861	2.769	1	0.342	0.000
4	GW	5	160	175.711	166.250	188.214	106.658	103.906	117.634	5	10.031	5.709	1	0.189	0.025
5	GW	5	160	159.304	151.760	170.700	100.063	94.850	106.688	5	7.602	4.772	1	0.501	0.848
6	GW	5	160	144.600	136.000	150.000	91.875	85.000	93.750	5	5.941	4.109	1	0.378	0.004
10	GW	5	160	154.853	136.137	163.191	101.237	85.086	101.994	5	11.583	7.480	1	0.072	0.377
11	GW	5	160	155.132	142.522	171.802	97.242	89.076	107.376	5	11.861	7.645	1	0.741	0.411
12	GW	5	160	148.160	138.370	158.514	91.461	86.481	99.071	5	8.229	5.554	1	0.797	0.032
16	GW	5	160	167.806	137.539	189.564	107.121	85.962	118.477	5	19.091	11.377	1	0.598	0.412
20	GW	40	160	155.628	133.600	189.564	96.048	91.461	101.237	40	14.925	9.590	1	0.077	0.071
2	RW	5	160	155.462	148.870	164.750	95.813	93.044	102.969	5	6.155	3.959	1	0.696	0.175
4	RW	5	160	165.039	141.327	176.845	105.691	88.329	110.528	5	14.620	8.858	1	0.230	0.484
5	RW	5	160	172.992	164.420	184.340	105.750	102.763	115.213	5	8.124	4.696	1	0.523	0.023
6	RW	5	160	146.400	142.000	151.000	91.875	88.750	94.375	5	3.847	2.628	1	0.613	0.001
10	RW	5	160	116.403	101.840	132.208	69.133	63.650	82.630	2	13.731	11.796	1	0.253	0.002
11	RW	5	160	160.274	152.948	172.024	98.504	95.593	107.515	5	7.352	4.587	1	0.475	0.937
12	RW	5	160	133.479	126.880	146.062	82.588	79.300	91.289	5	7.424	5.562	1	0.157	0.001
16	RW	5	160	139.926	93.192	182.538	82.765	58.245	114.086	4	35.081	25.071	1	0.862	0.270
20	RW	40	160	148.747	93.192	184.340	94.775	88.750	101.048	36	22.310	14.999	1	0.207	0.003

Table A-77 (continued): MPFBA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	133.284	121.220	144.560	83.913	75.763	90.350	5	8.898	6.676	1	0.994	0.003
4	SW	5	160	165.865	152.953	178.059	106.240	95.596	111.287	5	10.090	6.084	1	0.637	0.264
5	SW	5	160	169.740	159.720	186.100	105.300	99.825	116.313	5	10.267	6.048	1	0.513	0.101
6	SW	5	160	155.400	147.000	168.000	98.125	91.875	105.000	5	8.503	5.472	1	0.408	0.293
10	SW	5	160	135.116	121.447	149.969	84.907	75.905	93.731	5	10.319	7.637	1	0.875	0.006
11	SW	5	160	158.090	147.804	168.875	98.899	92.378	105.547	5	7.658	4.844	1	0.958	0.607
12	SW	5	160	143.310	129.168	165.258	84.123	80.730	103.286	5	15.265	10.651	1	0.270	0.071
16	SW	5	160	143.116	116.526	202.930	78.899	72.829	126.831	5	35.266	24.641	1	0.080	0.345
20	SW	40	160	150.490	116.526	202.930	94.663	86.144	98.929	40	19.373	12.873	1	0.513	0.004
2	WW	5	160	135.134	127.560	142.530	84.913	79.725	89.081	5	6.336	4.689	1	0.693	0.001
4	WW	5	160	173.294	167.117	185.405	107.148	104.448	115.878	5	7.242	4.179	1	0.212	0.015
5	WW	5	160	176.948	168.320	195.360	109.775	105.200	122.100	5	10.862	6.139	1	0.094	0.025
6	WW	5	160	132.800	121.000	139.000	84.375	75.625	86.875	5	7.294	5.492	1	0.291	0.001
10	WW	4	160	149.892	147.880	152.519	93.490	92.425	95.324	4	1.955	1.305	1	0.799	0.002
11	WW	5	160	164.469	152.591	175.858	100.694	95.369	109.911	5	10.354	6.296	1	0.338	0.389
12	WW	5	160	149.330	135.570	161.968	97.241	84.731	101.230	5	12.214	8.179	1	0.150	0.122
16	WW	5	160	147.922	115.799	182.322	91.305	72.374	113.951	5	24.001	16.225	1	0.899	0.323
20	WW	39	160	153.822	115.799	195.360	95.369	89.081	104.448	39	19.074	12.400	1	0.770	0.050

Table A-78: M8PFOS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	153.12	150.244	141.040	170.710	91.350	88.150	106.694	5	11.695	7.784	1	0.022	0.612
4	GW	5	153.12	160.408	157.557	166.326	98.923	98.473	103.954	5	3.801	2.370	1	0.119	0.013
5	GW	5	153.12	171.156	157.840	183.160	109.050	98.650	114.475	5	10.809	6.315	1	0.546	0.020
6	GW	5	153.12	151.600	145.000	158.000	95.000	90.625	98.750	5	4.615	3.044	1	0.568	0.502
10	GW	5	153.12	156.484	139.497	165.030	100.289	87.186	103.144	5	10.120	6.467	1	0.173	0.499
11	GW	5	153.12	189.003	181.275	207.110	116.599	113.297	129.444	5	10.484	5.547	1	0.051	0.002
12	GW	5	153.12	144.887	136.136	152.878	92.283	85.085	95.549	5	6.804	4.696	1	0.622	0.054
16	GW	5	153.12	159.498	153.676	162.030	99.967	96.048	101.269	5	3.422	2.146	1	0.063	0.014
20	GW	40	153.12	160.410	136.136	207.110	98.837	95.549	101.269	40	15.271	9.520	1	0.028	0.004
2	RW	5	153.12	148.464	139.940	168.700	91.181	87.463	105.438	5	11.702	7.882	1	0.045	0.424
4	RW	5	153.12	153.989	124.109	183.688	95.391	77.568	114.805	5	21.322	13.847	1	0.805	0.932
5	RW	5	153.12	168.552	155.780	174.640	107.850	97.363	109.150	5	7.778	4.615	1	0.131	0.011
6	RW	5	153.12	151.800	147.000	158.000	94.375	91.875	98.750	5	4.324	2.849	1	0.875	0.532
10	RW	5	153.12	155.435	148.832	159.458	98.002	93.020	99.661	5	4.192	2.697	1	0.501	0.284
11	RW	5	153.12	173.020	160.990	188.525	108.536	100.619	117.828	5	11.216	6.483	1	0.740	0.017
12	RW	5	153.12	139.218	133.142	148.760	87.094	83.214	92.975	5	6.146	4.415	1	0.513	0.007
16	RW	5	153.12	160.772	152.674	175.030	98.414	95.421	109.394	5	9.208	5.728	1	0.369	0.137
20	RW	40	153.12	156.406	124.109	188.525	96.833	93.908	99.661	40	14.226	9.095	1	0.945	0.152

Table A-78 (continued): M8PFOS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	153.12	132.612	114.650	161.070	79.919	71.656	100.669	5	19.872	14.985	1	0.421	0.082
4	SW	5	153.12	146.973	122.906	167.444	95.394	76.816	104.652	5	17.931	12.200	1	0.770	0.486
5	SW	5	153.12	178.072	164.480	188.660	115.450	102.800	117.913	5	11.089	6.227	1	0.132	0.007
6	SW	5	153.12	154.600	148.000	164.000	94.375	92.500	102.500	5	6.986	4.519	1	0.275	0.660
10	SW	5	153.12	155.954	150.322	161.617	97.654	93.952	101.011	5	4.505	2.889	1	0.941	0.232
11	SW	5	153.12	184.439	168.215	195.401	115.334	105.135	122.126	5	10.250	5.558	1	0.568	0.002
12	SW	5	153.12	144.165	133.224	151.722	90.570	83.265	94.826	5	7.004	4.858	1	0.717	0.046
16	SW	5	153.12	169.464	145.053	193.263	104.461	90.658	120.789	5	19.303	11.391	1	0.910	0.131
20	SW	40	153.12	158.285	114.650	195.401	98.600	93.952	102.800	40	20.737	13.101	1	0.275	0.123
2	WW	5	153.12	123.468	93.120	139.760	84.800	58.200	87.350	3	20.685	16.754	1	0.130	0.033
4	WW	5	153.12	158.348	148.298	170.156	96.634	92.686	106.347	5	9.306	5.877	1	0.476	0.277
5	WW	5	153.12	178.464	169.960	194.680	110.325	106.225	121.675	5	9.708	5.439	1	0.228	0.004
6	WW	5	153.12	147.600	143.000	154.000	92.500	89.375	96.250	5	4.159	2.818	1	0.617	0.041
10	WW	4	153.12	156.528	148.579	161.991	98.607	92.862	101.244	4	6.205	3.964	1	0.483	0.352
11	WW	5	153.12	188.015	171.102	195.678	120.063	106.939	122.299	5	9.758	5.190	1	0.049	0.001
12	WW	5	153.12	145.267	133.302	153.370	92.806	83.314	95.856	5	8.859	6.098	1	0.327	0.118
16	WW	5	153.12	165.227	149.410	174.236	103.839	93.381	108.897	5	9.748	5.900	1	0.354	0.050
20	WW	39	153.12	157.899	93.120	195.678	96.634	92.862	106.225	37	21.690	13.736	1	0.123	0.177

Table A-79: M3PFHxS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	151.2	133.804	125.920	146.840	82.319	78.700	91.775	5	8.275	6.184	1	0.518	0.009
4	GW	5	151.2	162.191	145.027	178.999	102.135	90.642	111.875	5	16.865	10.398	1	0.129	0.219
5	GW	5	151.2	159.600	156.380	164.580	99.038	97.738	102.863	5	3.333	2.088	1	0.545	0.005
6	GW	5	151.2	149.600	139.000	154.000	95.000	86.875	96.250	5	6.269	4.190	1	0.073	0.599
10	GW	5	151.2	158.180	139.803	172.355	100.157	87.377	107.722	5	11.802	7.461	1	0.626	0.257
11	GW	5	151.2	166.920	161.858	178.831	102.926	101.161	111.769	5	6.973	4.177	1	0.073	0.007
12	GW	5	151.2	147.308	144.016	153.146	92.039	90.010	95.716	5	3.605	2.447	1	0.289	0.073
16	GW	5	151.2	146.319	132.781	157.259	94.378	82.988	98.287	5	10.479	7.162	1	0.410	0.356
20	GW	40	151.2	152.990	125.920	178.999	95.983	92.039	99.038	40	13.286	8.684	1	0.731	0.399
2	RW	5	151.2	143.926	114.610	165.060	91.256	71.631	103.163	5	18.375	12.767	1	0.486	0.426
4	RW	5	151.2	150.621	141.622	163.741	92.348	88.514	102.338	5	9.017	5.987	1	0.612	0.893
5	RW	5	151.2	157.100	146.300	169.960	98.900	91.438	106.225	5	10.282	6.545	1	0.505	0.269
6	RW	5	151.2	146.200	143.000	152.000	91.250	89.375	95.000	5	3.701	2.532	1	0.313	0.039
10	RW	5	151.2	157.499	153.961	165.158	97.599	96.226	103.224	5	4.394	2.790	1	0.036	0.033
11	RW	5	151.2	163.147	149.435	170.342	103.198	93.397	106.464	5	7.976	4.889	1	0.060	0.029
12	RW	5	151.2	141.920	138.662	147.042	87.456	86.664	91.901	5	3.937	2.774	1	0.122	0.006
16	RW	5	151.2	148.063	136.185	161.487	92.143	85.116	100.929	5	9.310	6.288	1	0.973	0.493
20	RW	40	151.2	151.060	114.610	170.342	92.872	91.256	97.291	40	11.152	7.383	1	0.027	0.937

Table A-79 (continued): M3PFHxS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	151.2	131.818	118.410	151.470	79.900	74.006	94.669	5	14.019	10.635	1	0.499	0.037
4	SW	5	151.2	155.683	145.973	168.180	97.065	91.233	105.112	5	8.012	5.147	1	0.537	0.279
5	SW	5	151.2	158.692	143.420	176.740	97.488	89.638	110.463	5	12.227	7.705	1	0.866	0.243
6	SW	5	151.2	149.200	144.000	156.000	93.125	90.000	97.500	5	4.658	3.122	1	0.884	0.391
10	SW	5	151.2	157.109	153.614	159.819	98.948	96.009	99.887	5	2.661	1.694	1	0.394	0.008
11	SW	5	151.2	164.145	152.280	175.964	103.589	95.175	109.978	5	9.239	5.629	1	0.952	0.035
12	SW	5	151.2	146.367	137.038	155.174	91.950	85.649	96.984	5	6.571	4.489	1	0.918	0.175
16	SW	5	151.2	162.478	157.052	172.650	100.665	98.158	107.907	5	6.411	3.945	1	0.315	0.017
20	SW	40	151.2	153.187	118.410	176.740	96.929	94.375	98.347	40	12.731	8.311	1	0.051	0.330
2	WW	5	151.2	142.690	133.220	154.070	90.119	83.263	96.294	5	8.118	5.689	1	0.815	0.079
4	WW	5	151.2	153.019	142.985	180.683	89.997	89.366	112.927	5	16.194	10.583	1	0.022	0.814
5	WW	5	151.2	162.500	156.040	171.800	102.138	97.525	107.375	5	6.283	3.867	1	0.544	0.016
6	WW	5	151.2	148.000	141.000	151.000	93.125	88.125	94.375	5	4.000	2.703	1	0.025	0.148
10	WW	4	151.2	155.872	154.334	157.731	97.320	96.459	98.582	4	1.774	1.138	1	0.139	0.013
11	WW	5	151.2	162.397	142.706	176.965	102.324	89.191	110.603	5	12.544	7.724	1	0.661	0.117
12	WW	5	151.2	146.063	140.082	149.544	92.458	87.551	93.465	5	3.813	2.611	1	0.321	0.039
16	WW	5	151.2	156.454	149.565	163.470	98.466	93.478	102.169	5	5.992	3.830	1	0.569	0.121
20	WW	39	151.2	153.310	133.220	180.683	94.438	93.125	98.325	39	10.580	6.901	1	0.437	0.221

Table A-80: M3PFBS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	148.8	121.696	108.310	136.110	76.775	67.694	85.069	3	11.633	9.559	1	0.731	0.006
4	GW	5	148.8	160.931	146.375	181.434	100.576	91.484	113.396	5	13.468	8.369	1	0.746	0.114
5	GW	5	148.8	152.536	130.560	164.160	97.275	81.600	102.600	5	13.870	9.093	1	0.303	0.579
6	GW	5	148.8	143.800	134.000	150.000	91.875	83.750	93.750	5	6.648	4.623	1	0.372	0.168
10	GW	5	148.8	151.457	137.891	159.949	97.297	86.182	99.968	5	8.915	5.886	1	0.409	0.542
11	GW	5	148.8	151.112	143.005	159.468	93.454	89.378	99.668	5	6.605	4.371	1	0.842	0.477
12	GW	5	148.8	146.047	142.994	150.134	90.963	89.371	93.834	5	2.603	1.782	1	0.611	0.077
16	GW	5	148.8	127.406	112.462	156.223	79.703	70.289	97.640	5	17.824	13.990	1	0.186	0.055
20	GW	40	148.8	144.373	108.310	181.434	91.942	89.371	93.834	38	16.181	11.208	1	0.095	0.091
2	RW	5	148.8	143.072	121.150	164.260	90.506	75.719	102.663	5	18.774	13.122	1	0.561	0.533
4	RW	5	148.8	162.497	138.105	174.817	105.893	86.316	109.260	5	14.928	9.187	1	0.193	0.109
5	RW	5	148.8	154.032	146.900	164.260	95.600	91.813	102.663	5	6.369	4.135	1	0.498	0.140
6	RW	5	148.8	140.400	136.000	146.000	86.875	85.000	91.250	5	3.782	2.693	1	0.735	0.008
10	RW	5	148.8	135.160	117.579	155.301	79.389	73.487	97.063	5	16.640	12.311	1	0.278	0.141
11	RW	5	148.8	141.541	133.787	151.142	88.689	83.617	94.464	5	6.514	4.603	1	0.894	0.067
12	RW	5	148.8	142.181	139.664	145.586	88.070	87.290	90.991	5	2.627	1.847	1	0.267	0.005
16	RW	5	148.8	125.228	111.518	147.604	74.931	69.699	92.253	4	13.721	10.957	1	0.349	0.018
20	RW	40	148.8	143.014	111.518	174.817	89.114	86.875	92.253	39	15.210	10.635	1	0.799	0.021

Table A-80 (continued): M3PFBS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	148.8	118.972	103.870	131.640	73.994	64.919	82.275	4	10.309	8.665	1	0.917	0.003
4	SW	5	148.8	162.451	143.641	188.097	101.207	89.775	117.561	5	17.915	11.028	1	0.754	0.164
5	SW	5	148.8	157.892	145.020	167.920	99.788	90.638	104.950	5	9.355	5.925	1	0.766	0.095
6	SW	5	148.8	145.000	135.000	156.000	91.875	84.375	97.500	5	8.515	5.872	1	0.749	0.375
10	SW	5	148.8	154.079	150.786	157.212	97.040	94.242	98.257	5	3.006	1.951	1	0.180	0.017
11	SW	5	148.8	148.505	140.333	153.630	92.998	87.708	96.019	5	5.546	3.734	1	0.468	0.911
12	SW	5	148.8	145.206	139.476	155.126	90.298	87.173	96.954	5	5.925	4.080	1	0.212	0.247
16	SW	5	148.8	121.623	92.433	170.877	72.150	57.771	106.798	3	30.617	25.174	1	0.466	0.118
20	SW	40	148.8	144.216	92.433	188.097	92.208	88.951	95.934	37	19.820	13.743	1	0.083	0.152
2	WW	5	148.8	121.406	113.990	128.640	76.244	71.244	80.400	5	5.384	4.435	1	0.980	0.000
4	WW	5	148.8	170.575	154.963	181.832	107.385	96.852	113.645	5	9.879	5.792	1	0.637	0.008
5	WW	5	148.8	157.436	134.040	187.260	97.625	83.775	117.038	5	19.133	12.153	1	0.490	0.370
6	WW	5	148.8	137.000	131.000	143.000	84.375	81.875	89.375	5	5.244	3.828	1	0.368	0.007
10	WW	4	148.8	153.800	147.662	156.916	97.069	92.289	98.073	4	4.238	2.756	1	0.168	0.099
11	WW	5	148.8	146.263	139.202	152.029	93.558	87.001	95.018	5	5.917	4.045	1	0.132	0.392
12	WW	5	148.8	145.060	140.946	150.756	89.841	88.091	94.223	5	3.791	2.613	1	0.720	0.092
16	WW	5	148.8	116.211	98.465	128.885	76.332	61.540	80.553	3	13.967	12.018	1	0.209	0.006
20	WW	39	148.8	143.204	98.465	187.260	89.466	84.375	95.018	37	19.598	13.685	1	0.916	0.083

Table A-81: M8FOSAI Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	141.854	135.650	152.150	92.500	91.163	102.251	5	7.078	4.989	1	0.204	0.005
4	GW	5	160	156.337	137.340	174.515	104.717	92.298	117.281	5	14.356	9.183	1	0.992	0.599
5	GW	5	160	176.432	145.140	193.960	122.608	97.540	130.349	4	19.438	11.017	1	0.375	0.132
6	GW	5	160	156.600	146.000	163.000	107.527	98.118	109.543	5	7.021	4.484	1	0.345	0.340
10	GW	5	160	163.582	142.625	175.048	110.693	95.850	117.640	5	12.822	7.838	1	0.285	0.566
11	GW	5	160	165.143	159.396	172.443	110.006	107.121	115.889	5	5.124	3.103	1	0.835	0.088
12	GW	5	160	154.068	142.282	159.236	104.812	95.620	107.013	5	6.978	4.529	1	0.098	0.130
16	GW	5	160	163.525	142.498	183.368	107.578	95.765	123.231	5	15.716	9.611	1	0.910	0.642
20	GW	40	160	159.693	135.650	193.960	107.324	103.325	110.006	39	14.527	9.097	1	0.440	0.894
2	RW	5	160	154.424	142.150	167.830	101.996	95.531	112.789	5	11.675	7.560	1	0.336	0.346
4	RW	5	160	157.652	154.162	160.824	106.426	103.604	108.081	5	3.145	1.995	1	0.219	0.170
5	RW	5	160	183.360	163.560	196.260	129.758	109.919	131.895	3	15.273	8.329	1	0.089	0.027
6	RW	5	160	161.800	158.000	167.000	108.871	106.183	112.231	5	3.347	2.068	1	0.616	0.295
10	RW	5	160	164.495	154.836	170.016	113.692	104.056	114.258	5	7.208	4.382	1	0.061	0.236
11	RW	5	160	159.307	153.246	168.338	107.365	102.988	113.130	5	6.357	3.991	1	0.455	0.819
12	RW	5	160	151.552	150.124	153.798	101.805	100.890	103.359	5	1.470	0.970	1	0.559	0.000
16	RW	5	160	160.710	152.302	183.346	104.977	102.354	123.216	5	12.805	7.968	1	0.009	0.907
20	RW	40	160	161.662	142.150	196.260	106.995	103.871	108.871	38	12.275	7.593	1	0.000	0.397

Table A-81 (continued): M8FOSAI Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	137.716	126.540	154.000	92.063	85.040	103.495	5	10.082	7.321	1	0.401	0.008
4	SW	5	160	162.137	155.847	170.470	107.203	104.736	114.563	5	6.146	3.790	1	0.481	0.480
5	SW	5	160	175.240	152.940	220.600	109.973	102.782	148.253	4	27.664	15.786	1	0.187	0.285
6	SW	5	160	159.200	151.000	170.000	105.511	101.478	114.247	5	7.430	4.667	1	0.808	0.822
10	SW	5	160	162.101	157.195	171.510	107.898	105.642	115.262	5	5.789	3.571	1	0.282	0.463
11	SW	5	160	162.987	154.351	172.244	109.600	103.730	115.756	5	7.769	4.766	1	0.578	0.438
12	SW	5	160	153.139	149.672	160.634	102.247	100.586	107.953	5	4.399	2.872	1	0.104	0.025
16	SW	5	160	179.534	170.969	186.999	121.810	114.899	125.671	5	5.990	3.336	1	0.877	0.002
20	SW	40	160	161.507	126.540	220.600	106.773	104.736	109.973	39	16.192	10.026	1	0.008	0.560
2	WW	5	160	144.710	133.480	159.660	94.913	89.704	107.298	5	11.419	7.891	1	0.433	0.040
4	WW	5	160	154.763	143.606	161.723	104.692	96.509	108.685	5	6.840	4.420	1	0.439	0.162
5	WW	5	160	190.088	167.620	206.200	133.011	112.648	138.575	2	15.982	8.408	1	0.438	0.014
6	WW	5	160	153.800	147.000	157.000	104.167	98.790	105.511	5	3.962	2.576	1	0.096	0.025
10	WW	4	160	161.230	159.306	164.846	107.785	107.060	110.784	4	2.501	1.551	1	0.212	0.398
11	WW	5	160	164.041	159.057	168.089	109.575	106.893	112.963	5	3.798	2.316	1	0.493	0.076
12	WW	5	160	153.146	149.698	156.496	103.563	100.603	105.172	5	3.153	2.059	1	0.237	0.008
16	WW	5	160	173.671	164.856	184.535	116.054	110.790	124.015	5	7.202	4.147	1	0.861	0.013
20	WW	39	160	161.949	133.480	206.200	107.060	104.692	110.784	36	15.602	9.634	1	0.007	0.440

Table A-82: M282FtS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	153.6	130.786	101.420	164.040	83.590	67.794	109.652	4	22.928	17.531	1	0.838	0.090
4	GW	5	153.6	167.824	137.096	198.205	117.270	91.642	132.490	4	23.836	14.203	1	0.814	0.253
5	GW	5	153.6	172.576	142.220	201.200	116.310	95.067	134.492	3	26.650	15.442	1	0.399	0.187
6	GW	5	153.6	155.200	134.000	167.000	109.626	89.572	111.631	5	15.255	9.829	1	0.100	0.826
10	GW	5	153.6	152.745	130.848	174.543	104.072	87.465	116.673	5	16.442	10.764	1	0.972	0.913
11	GW	5	153.6	177.941	167.917	188.232	117.758	112.244	125.823	5	8.324	4.678	1	0.786	0.003
12	GW	5	153.6	153.784	142.004	166.172	102.644	94.922	111.078	5	10.692	6.952	1	0.494	0.971
16	GW	5	153.6	143.638	134.457	156.441	96.413	89.878	104.573	5	9.273	6.456	1	0.528	0.074
20	GW	40	153.6	156.812	101.420	201.200	104.323	96.413	111.631	36	21.946	13.995	1	0.843	0.360
2	RW	5	153.6	132.622	110.220	155.330	90.929	73.676	103.830	5	20.939	15.789	1	0.278	0.089
4	RW	5	153.6	158.518	112.152	193.854	108.028	74.968	129.582	5	29.474	18.593	1	0.487	0.728
5	RW	5	153.6	160.312	145.840	191.520	104.238	97.487	128.021	5	18.268	11.395	1	0.100	0.457
6	RW	5	153.6	160.600	150.000	191.000	103.610	100.267	127.674	5	17.184	10.700	1	0.007	0.414
10	RW	5	153.6	180.901	155.021	203.573	125.808	103.624	136.078	3	21.994	12.158	1	0.303	0.050
11	RW	5	153.6	162.452	140.757	185.144	108.537	94.089	123.760	5	19.014	11.704	1	0.649	0.357
12	RW	5	153.6	147.675	134.418	164.790	99.555	89.852	110.154	5	11.657	7.893	1	0.803	0.319
16	RW	5	153.6	146.794	136.280	159.189	97.447	91.097	106.410	5	8.368	5.701	1	0.907	0.143
20	RW	40	153.6	156.234	110.220	203.573	103.617	99.555	106.564	38	22.066	14.123	1	0.045	0.455

Table A-82 (continued): M282FtS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	153.6	135.394	121.120	153.270	85.668	80.963	102.453	5	14.024	10.358	1	0.291	0.044
4	SW	5	153.6	166.342	139.330	184.088	113.157	93.135	123.053	5	19.028	11.439	1	0.484	0.209
5	SW	5	153.6	171.524	143.220	187.520	120.067	95.735	125.348	5	18.853	10.992	1	0.285	0.101
6	SW	5	153.6	182.848	156.600	194.940	124.599	104.679	130.307	3	15.698	8.585	1	0.134	0.014
10	SW	5	153.6	165.290	151.919	202.412	105.633	101.550	135.302	4	21.079	12.753	1	0.012	0.283
11	SW	5	153.6	165.679	156.078	172.806	111.107	104.330	115.512	5	6.314	3.811	1	0.847	0.013
12	SW	5	153.6	139.433	135.764	145.732	91.719	90.751	97.414	5	4.363	3.129	1	0.214	0.002
16	SW	5	153.6	163.614	154.217	180.894	107.612	103.087	120.919	5	10.564	6.457	1	0.324	0.101
20	SW	40	153.6	161.265	121.120	202.412	106.623	102.453	113.157	37	20.269	12.568	1	0.700	0.022
2	WW	5	153.6	178.358	153.640	201.120	125.348	102.701	134.439	4	22.334	12.522	1	0.165	0.068
4	WW	5	153.6	164.785	146.872	178.057	111.872	98.176	119.022	5	11.550	7.009	1	0.744	0.096
5	WW	5	153.6	164.708	147.140	184.960	106.070	98.356	123.636	5	14.993	9.103	1	0.703	0.173
6	WW	5	153.6	163.400	156.000	167.000	109.626	104.278	111.631	5	4.336	2.654	1	0.094	0.007
10	WW	4	153.6	156.472	144.999	187.329	98.115	96.924	125.220	4	20.590	13.159	1	0.005	0.798
11	WW	5	153.6	175.959	167.675	183.142	118.411	112.082	122.421	5	5.910	3.359	1	0.960	0.001
12	WW	5	153.6	147.642	140.686	167.014	95.380	94.041	111.640	5	11.032	7.472	1	0.013	0.294
16	WW	5	153.6	166.990	157.025	175.667	111.524	104.963	117.424	5	7.103	4.254	1	0.980	0.014
20	WW	39	153.6	165.003	140.686	201.120	110.963	105.655	114.523	38	15.327	9.289	1	0.372	0.000

Table A-83: M262FtS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	152	130.692	109.090	149.930	89.408	71.770	98.638	5	16.181	12.381	1	0.811	0.042
4	GW	5	152	166.763	151.894	177.582	112.043	99.930	116.830	5	10.191	6.111	1	0.704	0.032
5	GW	5	152	151.196	122.660	167.280	101.303	80.697	110.053	5	16.911	11.185	1	0.171	0.920
6	GW	5	152	146.800	131.000	156.000	101.316	86.184	102.632	5	11.904	8.109	1	0.071	0.384
10	GW	5	152	146.726	124.518	165.406	97.377	81.920	108.820	5	15.066	10.268	1	0.944	0.478
11	GW	5	152	138.159	128.676	149.164	89.489	84.655	98.134	5	7.672	5.553	1	0.890	0.016
12	GW	5	152	143.788	131.532	154.350	97.686	86.534	101.546	5	9.894	6.881	1	0.341	0.137
16	GW	5	152	133.943	122.047	150.501	84.780	80.294	99.014	5	11.338	8.465	1	0.570	0.024
20	GW	40	152	144.758	109.090	177.582	97.531	89.489	100.763	40	15.761	10.888	1	0.897	0.006
2	RW	5	152	143.444	128.980	160.620	95.559	84.855	105.671	5	12.306	8.579	1	0.871	0.195
4	RW	5	152	157.026	114.879	177.445	108.438	75.578	116.740	5	24.270	15.456	1	0.038	0.667
5	RW	5	152	156.724	134.560	185.260	100.079	88.526	121.882	5	18.694	11.928	1	0.776	0.602
6	RW	5	152	151.000	144.000	172.000	96.053	94.737	113.158	5	11.790	7.808	1	0.002	0.859
10	RW	5	152	180.075	162.845	206.748	117.567	107.135	136.018	4	18.138	10.072	1	0.539	0.026
11	RW	5	152	126.275	115.081	141.939	83.718	75.711	93.381	5	10.888	8.622	1	0.626	0.006
12	RW	5	152	139.381	134.894	146.920	90.191	88.746	96.658	5	4.829	3.465	1	0.359	0.004
16	RW	5	152	138.016	129.825	145.862	91.487	85.411	95.962	5	7.321	5.305	1	0.345	0.013
20	RW	40	152	148.993	114.879	206.748	96.007	91.487	100.079	39	20.434	13.715	1	0.147	0.358

Table A-83 (continued): M262FtS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	152	142.308	131.490	149.180	94.928	86.507	98.145	5	6.620	4.652	1	0.390	0.031
4	SW	5	152	149.184	117.398	174.689	97.927	77.236	114.927	5	21.056	14.114	1	0.829	0.780
5	SW	5	152	168.932	159.100	183.900	110.829	104.671	120.987	5	9.681	5.731	1	0.632	0.017
6	SW	5	152	176.800	159.000	189.000	118.421	104.605	124.342	5	12.008	6.792	1	0.685	0.010
10	SW	5	152	162.787	154.321	183.948	104.475	101.527	121.018	5	12.028	7.389	1	0.017	0.115
11	SW	5	152	189.538	124.079	421.878	85.916	81.631	277.552	4	130.024	68.601	0	0.001	0.554
12	SW	5	152	137.391	134.562	142.646	89.782	88.528	93.846	5	3.238	2.357	1	0.321	0.001
16	SW	5	152	142.909	131.661	149.169	95.277	86.619	98.138	5	7.067	4.945	1	0.379	0.045
20	SW	40	152	158.731	117.398	421.878	98.032	93.846	104.671	39	46.315	29.178	1	0.000	0.364
2	WW	5	152	147.130	115.410	177.960	99.553	75.928	117.079	5	28.561	19.412	1	0.343	0.722
4	WW	5	152	165.998	149.798	184.591	107.463	98.552	121.441	5	12.616	7.600	1	0.799	0.068
5	WW	5	152	162.644	155.480	175.800	105.737	102.289	115.658	5	7.909	4.863	1	0.277	0.040
6	WW	5	152	147.000	142.000	150.000	96.711	93.421	98.684	5	3.082	2.097	1	0.334	0.022
10	WW	4	152	154.529	144.804	166.316	100.985	95.266	109.419	4	8.878	5.746	1	0.725	0.609
11	WW	5	152	135.305	129.748	146.047	88.125	85.361	96.084	5	6.430	4.753	1	0.220	0.004
12	WW	5	152	145.246	134.602	155.524	95.843	88.554	102.318	5	8.319	5.727	1	0.951	0.144
16	WW	5	152	145.188	137.094	153.109	97.482	90.194	100.729	5	6.904	4.755	1	0.371	0.092
20	WW	39	152	150.274	115.410	184.591	98.552	96.084	102.289	39	15.052	10.017	1	0.974	0.478

Table A-84: M242FtS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	149.6	124.820	116.430	152.550	77.116	75.801	99.316	5	15.544	12.453	1	0.001	0.023
4	GW	5	149.6	140.466	0.000	222.114	117.961	0.000	144.605	2	89.635	63.813	0	0.350	0.831
5	GW	5	149.6	138.784	127.240	149.080	89.323	82.839	97.057	5	9.066	6.532	1	0.701	0.056
6	GW	5	149.6	130.600	119.000	137.000	88.542	77.474	89.193	5	8.142	6.235	1	0.090	0.006
10	GW	5	149.6	126.521	113.013	140.134	79.776	73.576	91.233	5	11.464	9.061	1	0.526	0.011
11	GW	5	149.6	138.435	134.107	142.645	89.395	87.309	92.868	5	3.824	2.762	1	0.340	0.003
12	GW	5	149.6	146.574	142.448	153.916	94.556	92.740	100.206	5	4.822	3.290	1	0.350	0.233
16	GW	5	149.6	129.665	124.137	136.330	82.609	80.818	88.756	5	5.467	4.216	1	0.227	0.001
20	GW	40	149.6	134.483	0.000	222.114	88.542	82.609	91.233	37	30.614	22.764	1	0.000	0.003
2	RW	5	149.6	148.546	132.780	167.590	96.523	86.445	109.108	5	14.341	9.654	1	0.781	0.877
4	RW	5	149.6	167.615	105.659	288.166	97.356	68.789	187.608	3	71.009	42.364	1	0.159	0.601
5	RW	5	149.6	156.136	138.640	169.760	100.977	90.260	110.521	5	11.905	7.625	1	0.833	0.287
6	RW	5	149.6	138.200	131.000	153.000	89.193	85.286	99.609	5	8.672	6.275	1	0.094	0.042
10	RW	5	149.6	164.901	151.367	179.769	107.532	98.546	117.037	5	13.388	8.119	1	0.246	0.063
11	RW	5	149.6	136.996	133.078	141.092	88.661	86.639	91.857	5	3.010	2.197	1	0.902	0.001
12	RW	5	149.6	142.278	140.308	147.080	91.469	91.346	95.755	5	2.950	2.073	1	0.050	0.005
16	RW	5	149.6	136.816	125.232	150.530	86.761	81.532	98.001	5	10.404	7.605	1	0.668	0.052
20	RW	40	149.6	148.936	105.659	288.166	92.540	89.193	98.546	38	27.082	18.184	1	0.000	0.878

Table A-84 (continued): M242FtS Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	149.6	131.448	110.540	154.400	84.896	71.966	100.521	5	16.757	12.748	1	0.995	0.073
4	SW	5	149.6	129.235	65.015	187.554	89.124	42.328	122.106	4	45.442	35.162	1	0.970	0.373
5	SW	5	149.6	149.876	131.660	161.380	101.146	85.716	105.065	5	13.013	8.683	1	0.293	0.964
6	SW	5	149.6	161.200	154.000	169.000	105.469	100.260	110.026	5	6.611	4.101	1	0.478	0.017
10	SW	5	149.6	148.635	136.921	160.481	96.392	89.141	104.480	5	8.788	5.912	1	0.999	0.818
11	SW	5	149.6	137.948	134.824	141.113	89.745	87.776	91.870	5	2.925	2.120	1	0.294	0.001
12	SW	5	149.6	142.838	138.972	148.452	91.328	90.477	96.648	5	4.671	3.270	1	0.064	0.032
16	SW	5	149.6	145.000	123.964	161.093	92.318	80.706	104.878	5	14.898	10.274	1	0.607	0.528
20	SW	40	149.6	143.273	65.015	187.554	92.094	90.576	99.473	39	19.848	13.854	1	0.001	0.051
2	WW	5	149.6	136.092	121.900	151.230	84.128	79.362	98.457	5	13.616	10.005	1	0.146	0.091
4	WW	5	149.6	170.681	74.746	264.352	118.579	48.663	172.104	1	80.064	46.908	1	0.693	0.588
5	WW	5	149.6	163.732	144.380	181.020	109.089	93.997	117.852	5	13.728	8.385	1	0.897	0.083
6	WW	5	149.6	145.000	137.000	150.000	95.052	89.193	97.656	5	5.000	3.448	1	0.548	0.109
10	WW	4	149.6	131.143	128.763	137.223	84.176	83.830	89.338	4	4.062	3.097	1	0.009	0.003
11	WW	5	149.6	139.954	130.052	149.628	90.659	84.670	97.414	5	7.062	5.046	1	0.874	0.038
12	WW	5	149.6	143.529	133.938	152.628	91.781	87.199	99.367	5	8.144	5.674	1	0.417	0.171
16	WW	5	149.6	145.549	133.410	156.891	94.712	86.856	102.142	5	8.649	5.942	1	0.989	0.354
20	WW	39	149.6	147.366	74.746	264.352	93.750	90.208	97.656	35	29.995	20.354	1	0.000	0.644

Table A-85: d5NEtFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	142.110	112.940	172.610	94.729	74.696	114.160	5	21.892	15.405	1	0.981	0.142
4	GW	5	160	156.884	139.249	171.177	106.897	92.096	113.212	5	15.142	9.652	1	0.183	0.669
5	GW	5	160	196.332	176.560	216.600	133.466	116.772	143.254	2	18.734	9.542	1	0.212	0.012
6	GW	5	160	154.200	140.000	161.000	105.159	92.593	106.481	5	8.643	5.605	1	0.115	0.208
10	GW	5	160	161.196	136.197	175.841	107.578	90.078	116.297	5	15.052	9.337	1	0.262	0.868
11	GW	5	160	179.811	163.700	192.997	121.635	108.267	127.643	5	13.642	7.587	1	0.233	0.031
12	GW	5	160	150.508	144.086	158.206	98.937	95.295	104.634	5	6.092	4.048	1	0.571	0.025
16	GW	5	160	165.904	148.814	181.649	108.267	98.422	120.138	5	15.171	9.144	1	0.288	0.433
20	GW	40	160	163.368	112.940	216.600	107.053	101.910	112.392	37	21.372	13.082	1	0.721	0.325
2	RW	5	160	148.752	108.450	185.790	100.899	71.726	122.877	5	30.388	20.429	1	0.960	0.454
4	RW	5	160	152.414	120.203	174.039	102.656	79.499	115.105	5	23.250	15.255	1	0.447	0.506
5	RW	5	160	198.268	178.500	223.000	126.376	118.056	147.487	3	18.341	9.251	1	0.598	0.010
6	RW	5	160	160.200	156.000	169.000	104.497	103.175	111.772	5	5.119	3.195	1	0.073	0.935
10	RW	5	160	170.525	156.890	180.319	116.412	103.763	119.259	5	10.205	5.984	1	0.267	0.082
11	RW	5	160	151.562	132.708	162.555	101.914	87.770	107.510	5	11.147	7.355	1	0.080	0.166
12	RW	5	160	152.000	145.984	161.678	100.246	96.550	106.930	5	6.087	4.005	1	0.512	0.042
16	RW	5	160	167.912	156.750	184.232	110.939	103.671	121.846	5	10.936	6.513	1	0.676	0.181
20	RW	40	160	162.704	108.450	223.000	105.586	102.656	111.772	38	21.685	13.328	1	0.225	0.435

Table A-85 (continued): d5NEtFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	146.396	124.000	169.220	92.937	82.011	111.918	5	20.688	14.132	1	0.285	0.215
4	SW	5	160	171.403	150.025	196.938	105.494	99.223	130.250	4	22.188	12.945	1	0.113	0.315
5	SW	5	160	223.532	168.060	250.800	157.804	111.151	165.873	1	33.965	15.195	1	0.182	0.014
6	SW	5	160	162.000	155.000	168.000	107.143	102.513	111.111	5	4.743	2.928	1	0.902	0.399
10	SW	5	160	163.661	157.569	178.757	105.414	104.213	118.226	5	8.828	5.394	1	0.046	0.406
11	SW	5	160	168.526	160.108	174.154	113.014	105.891	115.181	5	5.537	3.286	1	0.544	0.026
12	SW	5	160	146.508	140.236	159.094	95.397	92.749	105.221	5	7.568	5.166	1	0.206	0.016
16	SW	5	160	180.735	172.653	203.211	115.638	114.189	134.399	4	12.727	7.042	1	0.008	0.022
20	SW	40	160	170.345	124.000	250.800	109.224	105.414	113.384	34	28.049	16.466	1	0.000	0.025
2	WW	5	160	146.226	118.480	180.640	101.488	78.360	119.471	5	25.218	17.246	1	0.556	0.289
4	WW	5	160	185.940	166.227	213.132	115.849	109.939	140.960	3	19.964	10.737	1	0.321	0.044
5	WW	5	160	224.120	205.600	256.200	146.164	135.979	169.444	0	20.105	8.971	1	0.428	0.002
6	WW	5	160	178.400	175.000	182.000	117.725	115.741	120.370	5	2.702	1.514	1	0.980	0.000
10	WW	4	160	160.302	157.102	166.928	104.887	103.903	110.402	4	4.624	2.884	1	0.132	0.904
11	WW	5	160	170.187	148.617	195.796	112.262	98.292	129.495	5	16.831	9.890	1	0.480	0.247
12	WW	5	160	150.772	145.470	159.178	98.247	96.210	105.276	5	5.540	3.675	1	0.484	0.020
16	WW	5	160	174.214	156.187	179.519	117.927	103.298	118.730	5	10.093	5.794	1	0.001	0.035
20	WW	39	160	174.115	118.480	256.200	115.383	105.836	118.374	32	27.270	15.662	1	0.064	0.003

Table A-86: d3NMeFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	130.912	106.100	161.570	85.391	69.292	105.519	4	20.318	15.521	1	0.840	0.033
4	GW	5	160	163.827	119.473	198.424	105.978	78.026	129.587	5	29.750	18.159	1	0.849	0.788
5	GW	5	160	189.060	151.500	212.600	127.665	98.942	138.845	3	24.788	13.111	1	0.549	0.059
6	GW	5	160	148.000	138.000	155.000	97.962	90.125	101.228	5	6.964	4.706	1	0.634	0.018
10	GW	5	160	158.420	137.554	166.564	106.673	89.834	108.780	5	11.846	7.477	1	0.014	0.780
11	GW	5	160	177.884	168.098	192.104	115.020	109.782	125.460	5	9.121	5.128	1	0.726	0.012
12	GW	5	160	156.648	146.134	170.438	101.608	95.438	111.310	5	9.509	6.071	1	0.881	0.475
16	GW	5	160	163.503	142.473	174.914	111.216	93.046	114.233	5	14.339	8.770	1	0.184	0.614
20	GW	40	160	161.032	106.100	212.600	105.300	99.922	111.216	37	23.124	14.360	1	0.981	0.779
2	RW	5	160	155.532	130.230	173.530	106.087	85.051	113.329	5	16.828	10.819	1	0.626	0.585
4	RW	5	160	155.742	100.224	214.558	103.660	65.454	140.124	3	41.074	26.373	1	0.818	0.828
5	RW	5	160	192.828	147.800	230.800	131.008	96.526	150.731	2	30.806	15.976	1	0.886	0.076
6	RW	5	160	159.400	154.000	169.000	101.881	100.575	110.371	5	6.148	3.857	1	0.236	0.838
10	RW	5	160	167.968	159.214	173.748	111.431	103.980	113.472	5	6.579	3.917	1	0.234	0.054
11	RW	5	160	162.934	157.588	169.693	106.402	102.918	110.823	5	4.805	2.949	1	0.865	0.244
12	RW	5	160	153.761	142.328	167.144	99.684	92.952	109.159	5	8.876	5.773	1	0.621	0.191
16	RW	5	160	155.400	143.482	169.635	100.833	93.705	110.786	5	9.391	6.043	1	0.684	0.335
20	RW	40	160	162.946	100.224	230.800	104.921	101.881	107.861	35	21.872	13.423	1	0.001	0.400

Table A-86 (continued): d3NMeFOSAA Low Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	128.338	108.780	150.010	80.597	71.042	97.969	5	16.636	12.963	1	0.784	0.013
4	SW	5	160	182.473	135.182	227.662	115.364	88.285	148.682	4	33.969	18.616	1	0.908	0.213
5	SW	5	160	228.524	172.420	268.200	160.005	112.604	175.157	1	37.389	16.361	1	0.578	0.015
6	SW	5	160	159.400	149.000	170.000	104.493	97.309	111.024	5	7.570	4.749	1	0.885	0.868
10	SW	5	160	161.247	154.267	173.322	104.838	100.749	113.194	5	7.585	4.704	1	0.408	0.732
11	SW	5	160	179.163	171.757	183.249	118.843	112.172	119.677	5	4.952	2.764	1	0.181	0.001
12	SW	5	160	153.124	143.846	165.784	98.710	93.943	108.271	5	8.436	5.509	1	0.826	0.142
16	SW	5	160	164.902	146.035	185.354	107.868	95.373	121.051	5	14.562	8.831	1	0.991	0.493
20	SW	40	160	169.646	108.780	268.200	107.039	102.214	113.194	35	33.011	19.459	1	0.002	0.072
2	WW	5	160	149.418	131.100	162.130	99.882	85.619	105.884	5	12.090	8.091	1	0.721	0.122
4	WW	5	160	197.275	174.805	226.752	127.244	114.162	148.088	3	21.934	11.119	1	0.630	0.019
5	WW	5	160	191.900	150.200	231.200	135.711	98.093	150.993	2	34.241	17.843	1	0.409	0.106
6	WW	5	160	142.600	140.000	147.000	92.085	91.432	96.003	5	2.881	2.020	1	0.269	0.000
10	WW	4	160	157.169	155.085	159.749	102.482	101.283	104.329	4	1.933	1.230	1	0.751	0.061
11	WW	5	160	176.693	161.274	205.132	114.633	105.325	133.968	4	17.185	9.726	1	0.226	0.096
12	WW	5	160	154.848	145.544	158.374	102.653	95.052	103.431	5	5.328	3.441	1	0.021	0.097
16	WW	5	160	162.422	150.667	169.079	106.960	98.398	110.423	5	7.493	4.613	1	0.402	0.510
20	WW	39	160	166.781	131.100	231.200	104.329	102.207	109.959	33	24.423	14.644	1	0.000	0.091

Table A-87: PFTreA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	152.272	152.272	134.420	170.810	76.975	67.210	85.405	4	13.303	8.737	8.737	1	0.936	0.001
4	GW	5	200	180.683	180.683	165.263	214.334	88.539	82.631	107.167	5	19.811	10.965	10.965	1	0.098	0.095
5	GW	5	200	198.928	198.928	162.080	218.200	104.100	81.040	109.100	5	22.022	11.071	11.071	1	0.186	0.919
6	GW	5	200	178.600	178.600	167.000	188.000	89.000	83.500	94.000	5	8.050	4.507	4.507	1	0.900	0.004
10	GW	5	200	175.502	175.502	161.943	186.192	88.652	80.971	93.096	5	8.915	5.080	5.080	1	0.817	0.004
11	GW	5	200	209.467	200.465	194.963	210.024	100.236	97.481	105.012	5	5.980	2.855	2.983	1	0.330	0.870
12	GW	5	200	165.986	165.986	113.612	188.484	86.537	56.806	94.242	4	30.327	18.271	18.271	1	0.053	0.066
16	GW	5	200	234.307	234.307	191.265	317.786	110.838	95.633	158.893	4	49.474	21.115	21.115	1	0.188	0.196
20	GW	40	200	186.968	185.843	113.612	317.786	90.922	86.604	97.481	37	32.927	17.611	17.364	1	0.001	0.008
2	RW	5	200	169.030	169.030	150.480	202.010	81.565	75.240	101.005	5	19.423	11.491	11.491	1	0.108	0.023
4	RW	5	200	167.610	167.610	137.042	240.686	76.689	68.521	120.343	4	42.249	25.207	25.207	1	0.051	0.162
5	RW	5	200	229.072	229.072	198.560	248.800	123.500	99.280	124.400	5	25.710	11.223	11.223	1	0.021	0.065
6	RW	5	200	207.200	207.200	200.000	216.000	102.000	100.000	108.000	5	7.727	3.729	3.729	1	0.122	0.106
10	RW	5	200	193.064	193.064	182.655	196.970	97.846	91.328	98.485	5	6.029	3.123	3.123	1	0.030	0.062
11	RW	5	200	232.801	222.228	191.953	244.242	113.764	95.977	122.121	5	22.579	9.699	10.160	1	0.487	0.093
12	RW	5	200	176.280	176.280	160.418	204.600	87.345	80.209	102.300	5	17.282	9.804	9.804	1	0.305	0.037
16	RW	5	200	254.192	254.192	197.062	296.654	129.706	98.531	148.327	3	36.901	14.517	14.517	1	0.784	0.030
20	RW	40	200	203.656	202.335	137.042	296.654	99.640	95.977	103.153	37	38.386	18.849	18.539	1	0.265	0.696

Table A-87 (continued): PFTreA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	147.390	147.390	131.390	170.170	70.720	65.695	85.085	3	16.604	11.265	11.265	1	0.444	0.002
4	SW	5	200	204.758	204.758	178.591	241.514	95.801	89.296	120.757	5	27.363	13.363	13.363	1	0.315	0.717
5	SW	5	200	227.360	227.360	208.000	238.600	114.500	104.000	119.300	5	11.510	5.063	5.063	1	0.167	0.006
6	SW	5	200	180.800	180.800	168.000	189.000	92.500	84.000	94.500	5	8.379	4.634	4.634	1	0.404	0.007
10	SW	5	200	180.675	180.675	175.464	185.950	90.759	87.732	92.975	5	4.265	2.361	2.361	1	0.815	0.001
11	SW	5	200	231.707	220.910	212.754	226.312	111.435	106.377	113.156	5	5.561	2.400	2.518	1	0.541	0.001
12	SW	5	200	149.106	149.106	135.400	184.168	71.368	67.700	92.084	3	20.018	13.425	13.425	1	0.022	0.005
16	SW	5	200	194.629	194.629	173.564	215.576	95.593	86.782	107.788	5	17.664	9.076	9.076	1	0.679	0.534
20	SW	40	200	189.553	188.204	131.390	241.514	92.500	88.667	104.000	36	33.250	17.541	16.819	1	0.056	0.024
2	WW	5	200	139.306	139.306	110.410	162.040	68.385	55.205	81.020	2	22.077	15.848	15.848	1	0.529	0.004
4	WW	5	200	199.269	199.269	164.940	244.770	99.945	82.470	122.385	5	30.581	15.347	15.347	1	0.840	0.960
5	WW	5	200	167.104	167.104	110.500	205.400	84.890	55.250	102.700	4	36.695	21.959	21.959	1	0.701	0.116
6	WW	5	200	179.600	179.600	151.000	207.000	90.000	75.500	103.500	5	20.120	11.202	11.202	1	0.876	0.086
10	WW	5	200	176.353	176.353	165.904	186.884	86.294	82.952	93.442	5	9.046	5.129	5.129	1	0.382	0.004
11	WW	5	200	229.203	213.642	200.983	234.261	104.671	100.491	117.130	5	13.053	5.695	6.110	1	0.508	0.080
12	WW	5	200	168.922	168.922	136.438	208.630	84.039	68.219	104.315	4	27.351	16.191	16.191	1	0.956	0.064
16	WW	5	200	225.187	225.187	187.227	271.748	119.000	93.613	135.874	4	36.434	16.179	16.179	1	0.329	0.197
20	WW	40	200	185.618	183.673	110.410	271.748	91.191	84.890	99.945	34	37.453	20.178	19.295	1	0.854	0.006

Table A-88: PFTriA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	146.368	146.368	130.430	166.370	74.100	65.215	83.185	3	13.425	9.172	9.172	1	0.755	0.001
4	GW	5	200	205.941	205.941	196.084	221.904	100.793	98.042	110.952	5	11.090	5.385	5.385	1	0.343	0.297
5	GW	5	200	248.400	248.400	221.800	262.400	127.400	110.900	131.200	4	16.545	6.661	6.661	1	0.273	0.003
6	GW	5	200	191.400	191.400	186.000	201.000	95.000	93.000	100.500	5	6.025	3.148	3.148	1	0.398	0.033
10	GW	5	200	183.360	183.360	171.008	191.961	91.851	85.504	95.980	5	8.740	4.767	4.767	1	0.586	0.013
11	GW	5	200	205.496	199.243	191.608	209.147	98.420	95.804	104.573	5	8.164	3.973	4.098	1	0.229	0.846
12	GW	5	200	174.873	174.873	126.386	197.194	94.534	63.193	98.597	4	29.438	16.834	16.834	1	0.122	0.129
16	GW	5	200	239.148	239.148	198.442	265.032	120.536	99.221	132.516	4	24.829	10.382	10.382	1	0.334	0.024
20	GW	40	200	199.373	198.592	126.386	265.032	97.514	95.000	100.793	35	35.060	17.585	17.615	1	0.090	0.800
2	RW	5	200	171.006	171.006	155.660	182.570	85.705	77.830	91.285	5	11.245	6.576	6.576	1	0.655	0.004
4	RW	5	200	194.939	194.939	150.355	251.354	103.020	75.177	125.677	5	42.378	21.739	21.739	1	0.474	0.803
5	RW	5	200	259.320	259.320	229.200	290.800	132.700	114.600	145.400	2	24.093	9.291	9.291	1	0.862	0.005
6	RW	5	200	207.000	207.000	202.000	218.000	101.500	101.000	109.000	5	7.000	3.382	3.382	1	0.090	0.089
10	RW	5	200	195.590	195.590	187.350	201.407	98.782	93.675	100.704	5	5.575	2.850	2.850	1	0.671	0.152
11	RW	5	200	204.531	201.126	179.790	225.200	98.085	89.895	112.600	5	18.328	8.961	9.112	1	0.807	0.897
12	RW	5	200	169.418	169.418	140.338	190.082	88.422	70.169	95.041	5	22.541	13.305	13.305	1	0.278	0.039
16	RW	5	200	241.323	241.323	215.875	272.293	115.145	107.937	136.147	3	24.398	10.110	10.110	1	0.373	0.019
20	RW	40	200	205.391	204.965	140.338	290.800	100.852	95.041	107.052	35	35.988	17.522	17.572	1	0.350	0.389

Table A-88 (continued): PFTriA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	150.716	150.716	129.650	173.400	75.145	64.825	86.700	4	15.752	10.452	10.452	1	0.883	0.002
4	SW	5	200	219.759	219.759	210.558	228.348	110.576	105.279	114.174	5	6.937	3.157	3.157	1	0.945	0.003
5	SW	5	200	258.760	255.390	238.630	278.230	123.615	119.315	139.115	3	17.024	6.579	6.666	1	0.355	0.002
6	SW	5	200	200.800	200.800	195.000	209.000	99.500	97.500	104.500	5	6.017	2.996	2.996	1	0.466	0.781
10	SW	5	200	185.216	185.216	180.102	191.969	91.426	90.051	95.985	5	5.418	2.925	2.925	1	0.223	0.004
11	SW	5	200	210.012	204.356	199.833	209.887	101.871	99.916	104.943	5	3.741	1.781	1.831	1	0.932	0.060
12	SW	5	200	156.758	156.758	122.850	182.104	81.559	61.425	91.052	4	21.795	13.904	13.904	1	0.626	0.011
16	SW	5	200	217.633	217.633	176.833	240.803	114.050	88.416	120.401	5	25.687	11.803	11.803	1	0.355	0.200
20	SW	40	200	199.957	198.828	122.850	278.230	100.623	91.426	104.943	36	36.185	18.096	17.769	1	0.982	0.835
2	WW	5	200	138.296	138.296	119.840	172.100	63.900	59.920	86.050	2	22.572	16.322	16.322	1	0.224	0.004
4	WW	5	200	218.598	218.598	199.972	254.960	104.214	99.986	127.480	5	22.776	10.419	10.419	1	0.221	0.142
5	WW	5	200	219.100	217.226	142.326	262.926	121.563	71.163	131.463	4	52.726	24.065	24.272	1	0.244	0.506
6	WW	5	200	211.000	211.000	195.000	221.000	105.000	97.500	110.500	5	10.794	5.115	5.115	1	0.381	0.085
10	WW	5	200	185.289	185.289	174.024	198.563	91.088	87.012	99.282	5	10.608	5.725	5.725	1	0.502	0.036
11	WW	5	200	207.560	199.965	188.782	209.749	100.779	94.391	104.874	5	8.214	3.957	4.108	1	0.935	0.993
12	WW	5	200	163.640	163.640	134.430	189.782	81.016	67.215	94.891	4	19.946	12.189	12.189	1	0.772	0.015
16	WW	5	200	237.236	237.236	183.661	300.502	112.968	91.830	150.251	4	42.988	18.120	18.120	1	0.833	0.125
20	WW	40	200	197.590	196.406	119.840	300.502	98.402	91.088	104.214	34	40.280	20.386	20.360	1	0.731	0.573

Table A-89: PFDoA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	166.060	166.060	158.770	177.930	82.925	79.385	88.965	5	7.732	4.656	4.656	1	0.480	0.001
4	GW	5	200	201.080	201.080	192.671	208.386	99.926	96.335	104.193	5	7.136	3.549	3.549	1	0.322	0.752
5	GW	5	200	212.720	212.720	196.000	222.400	107.800	98.000	111.200	5	10.641	5.002	5.002	1	0.440	0.056
6	GW	5	200	194.800	194.800	189.000	199.000	97.000	94.500	99.500	5	4.266	2.190	2.190	1	0.410	0.053
10	GW	5	200	182.776	182.776	173.772	191.010	92.446	86.886	95.505	5	8.082	4.422	4.422	1	0.228	0.009
11	GW	5	200	205.469	199.748	186.100	214.726	98.493	93.050	107.363	5	10.796	5.255	5.405	1	0.930	0.961
12	GW	5	200	187.089	187.089	168.834	197.230	96.636	84.417	98.615	5	11.719	6.264	6.264	1	0.245	0.069
16	GW	5	200	300.546	300.546	271.824	323.820	152.316	135.912	161.910	0	21.303	7.088	7.088	1	0.776	0.000
20	GW	40	200	206.317	205.602	158.770	323.820	97.904	95.505	99.926	35	39.932	19.355	19.452	1	0.000	0.381
2	RW	5	200	180.946	180.946	148.270	195.690	95.080	74.135	97.845	5	19.944	11.022	11.022	1	0.118	0.099
4	RW	5	200	201.921	201.921	183.079	216.466	104.669	91.539	108.233	5	14.619	7.240	7.240	1	0.287	0.784
5	RW	5	200	218.960	218.960	207.200	240.400	105.100	103.600	120.200	5	15.034	6.866	6.866	1	0.117	0.048
6	RW	5	200	198.600	198.600	192.000	209.000	98.500	96.000	104.500	5	6.504	3.275	3.275	1	0.558	0.655
10	RW	5	200	191.193	191.193	185.175	194.337	95.713	92.588	97.169	5	3.647	1.907	1.907	1	0.201	0.006
11	RW	5	200	203.336	200.511	192.833	210.987	99.207	96.416	105.493	5	7.539	3.708	3.760	1	0.626	0.887
12	RW	5	200	186.824	186.824	170.554	207.436	93.433	85.277	103.718	5	13.947	7.465	7.465	1	0.907	0.102
16	RW	5	200	268.775	268.775	229.891	306.491	135.600	114.946	153.245	1	27.277	10.149	10.149	1	0.676	0.005
20	RW	40	200	206.319	205.966	148.270	306.491	98.173	96.416	103.900	36	29.768	14.428	14.478	1	0.000	0.213

Table A-89 (continued): PFDoA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	149.166	149.166	132.680	164.050	75.335	66.340	82.025	4	11.391	7.637	7.637	1	0.910	0.001
4	SW	5	200	209.102	209.102	192.094	230.466	105.997	96.047	115.233	5	14.717	7.038	7.038	1	0.728	0.239
5	SW	5	200	236.440	236.440	225.000	249.800	117.600	112.500	124.900	5	10.516	4.448	4.448	1	0.667	0.001
6	SW	5	200	210.000	210.000	202.000	217.000	105.000	101.000	108.500	5	5.431	2.586	2.586	1	0.869	0.015
10	SW	5	200	183.456	183.456	172.274	191.807	91.836	86.137	95.904	5	8.093	4.411	4.411	1	0.679	0.010
11	SW	5	200	207.670	203.311	197.420	213.660	99.571	98.710	106.830	5	7.022	3.381	3.454	1	0.175	0.351
12	SW	5	200	165.968	165.968	151.460	186.924	81.033	75.730	93.462	5	15.891	9.575	9.575	1	0.328	0.009
16	SW	5	200	262.365	262.365	213.962	331.401	131.414	106.981	165.700	2	43.880	16.725	16.725	1	0.595	0.034
20	SW	40	200	203.021	202.476	132.680	331.401	100.286	95.204	106.019	36	38.606	19.016	19.047	1	0.099	0.687
2	WW	5	200	162.514	162.514	147.040	175.780	82.670	73.520	87.890	5	10.679	6.571	6.571	1	0.884	0.001
4	WW	5	200	206.828	206.828	192.461	230.042	103.399	96.231	115.021	5	14.507	7.014	7.014	1	0.426	0.352
5	WW	5	200	202.772	202.772	161.900	250.400	99.580	80.950	125.200	5	35.089	17.305	17.305	1	0.930	0.868
6	WW	5	200	215.600	215.600	203.000	231.000	106.000	101.500	115.500	5	11.589	5.375	5.375	1	0.666	0.040
10	WW	5	200	177.655	177.655	164.687	189.040	87.637	82.344	94.520	5	9.548	5.375	5.375	1	0.785	0.006
11	WW	5	200	203.877	197.036	187.231	207.534	98.508	93.615	103.767	5	7.231	3.547	3.670	1	0.687	0.411
12	WW	5	200	177.700	177.700	146.906	216.000	93.986	73.453	108.000	5	29.995	16.880	16.880	1	0.309	0.172
16	WW	5	200	279.106	279.106	236.219	311.992	137.508	118.109	155.996	1	30.082	10.778	10.778	1	0.728	0.004
20	WW	40	200	203.257	202.402	146.906	311.992	98.517	93.615	103.894	36	38.892	19.134	19.241	1	0.009	0.699

Table A-90: PFUnA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	174.040	174.040	145.660	206.750	82.470	72.830	103.375	5	24.719	14.203	14.203	1	0.696	0.079
4	GW	5	200	201.368	201.368	178.333	213.240	102.710	89.167	106.620	5	13.809	6.858	6.858	1	0.226	0.836
5	GW	5	200	230.720	230.720	219.000	251.600	113.700	109.500	125.800	5	12.469	5.404	5.404	1	0.252	0.005
6	GW	5	200	200.600	200.600	195.000	206.000	100.000	97.500	103.000	5	4.827	2.406	2.406	1	0.507	0.795
10	GW	5	200	179.377	179.377	168.959	187.450	90.650	84.479	93.725	5	7.982	4.450	4.450	1	0.514	0.004
11	GW	5	200	220.349	214.577	198.155	231.283	106.983	99.077	115.641	5	12.023	5.456	5.603	1	0.956	0.053
12	GW	5	200	179.335	179.335	163.678	195.000	86.493	81.839	97.500	5	14.648	8.168	8.168	1	0.157	0.034
16	GW	5	200	272.115	272.115	227.324	304.827	134.967	113.662	152.414	1	30.799	11.318	11.318	1	0.718	0.006
20	GW	40	200	207.238	206.516	145.660	304.827	101.250	97.450	106.620	36	34.990	16.884	16.834	1	0.022	0.243
2	RW	5	200	193.728	193.728	144.690	223.390	102.800	72.345	111.695	5	31.271	16.142	16.142	1	0.458	0.677
4	RW	5	200	213.471	213.471	189.137	235.700	104.904	94.569	117.850	5	17.501	8.198	8.198	1	0.888	0.160
5	RW	5	200	237.400	237.400	229.200	249.600	119.100	114.600	124.800	5	8.224	3.464	3.464	1	0.532	0.001
6	RW	5	200	198.200	198.200	194.000	203.000	98.500	97.000	101.500	5	3.701	1.867	1.867	1	0.687	0.338
10	RW	5	200	187.566	187.566	180.652	196.787	93.803	90.326	98.394	5	6.070	3.236	3.236	1	0.809	0.010
11	RW	5	200	197.969	195.056	184.894	208.662	97.592	92.447	104.331	5	9.735	4.917	4.991	1	0.704	0.320
12	RW	5	200	179.013	179.013	146.588	195.964	93.473	73.294	97.982	5	19.833	11.079	11.079	1	0.249	0.077
16	RW	5	200	267.092	267.092	238.825	287.384	134.325	119.413	143.692	1	17.702	6.628	6.628	1	0.472	0.001
20	RW	40	200	209.305	208.941	144.690	287.384	100.191	97.000	106.305	36	31.610	15.102	15.200	1	0.054	0.083

Table A-90 (continued): PFUnA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	188.288	188.288	168.630	220.570	89.455	84.315	110.285	5	21.063	11.187	11.187	1	0.406	0.282
4	SW	5	200	211.549	211.549	197.259	231.886	105.293	98.630	115.943	5	13.384	6.327	6.327	1	0.773	0.126
5	SW	5	200	245.160	245.160	239.000	251.600	121.100	119.500	125.800	5	5.673	2.314	2.314	1	0.189	0.000
6	SW	5	200	210.200	210.200	194.000	220.000	105.500	97.000	110.000	5	10.085	4.798	4.798	1	0.451	0.087
10	SW	5	200	181.235	181.235	176.175	190.684	90.023	88.087	95.342	5	5.634	3.109	3.109	1	0.227	0.002
11	SW	5	200	202.517	198.295	193.839	214.843	97.148	96.920	107.422	5	9.254	4.570	4.667	1	0.000	0.702
12	SW	5	200	177.403	177.403	160.134	195.738	89.474	80.067	97.869	5	15.485	8.729	8.729	1	0.552	0.031
16	SW	5	200	235.932	235.932	198.749	263.546	121.733	99.374	131.773	4	27.713	11.746	11.746	1	0.521	0.044
20	SW	40	200	206.535	206.008	160.134	263.546	99.165	96.994	107.760	39	27.123	13.132	13.223	1	0.127	0.171
2	WW	5	200	175.494	175.494	161.150	203.370	83.920	80.575	101.685	5	17.826	10.158	10.158	1	0.223	0.037
4	WW	5	200	205.749	205.749	186.108	244.588	102.415	93.054	122.294	5	23.524	11.433	11.433	1	0.159	0.614
5	WW	5	200	249.600	249.600	241.800	261.600	125.000	120.900	130.800	4	7.662	3.070	3.070	1	0.497	0.000
6	WW	5	200	218.200	218.200	202.000	234.000	107.000	101.000	117.000	5	13.084	5.996	5.996	1	0.666	0.036
10	WW	5	200	176.412	176.412	164.243	185.559	90.460	82.121	92.780	5	9.185	5.207	5.207	1	0.342	0.005
11	WW	5	200	214.103	206.766	197.235	218.700	103.134	98.617	109.350	5	7.678	3.586	3.714	1	0.369	0.120
12	WW	5	200	182.968	182.968	153.598	206.560	91.440	76.799	103.280	5	21.532	11.768	11.768	1	0.804	0.152
16	WW	5	200	281.170	281.170	215.150	311.987	147.777	107.575	155.994	1	38.829	13.810	13.810	1	0.114	0.009
20	WW	40	200	212.962	212.045	153.598	311.987	102.656	93.954	107.575	35	39.690	18.637	18.741	1	0.015	0.063

Table A-91: PFDA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	191.366	191.366	177.660	199.840	97.295	88.830	99.920	5	8.884	4.642	4.642	1	0.498	0.095
4	GW	5	200	208.524	208.524	178.432	247.256	94.464	89.216	123.628	5	34.417	16.505	16.505	1	0.049	0.609
5	GW	5	200	218.360	218.360	200.600	227.200	112.700	100.300	113.600	5	11.394	5.218	5.218	1	0.115	0.023
6	GW	5	200	190.800	190.800	187.000	200.000	95.000	93.500	100.000	5	5.357	2.808	2.808	1	0.040	0.018
10	GW	5	200	191.281	191.281	175.966	206.056	94.705	87.983	103.028	5	10.973	5.737	5.737	1	0.875	0.150
11	GW	5	200	226.357	220.994	202.246	241.719	110.702	101.123	120.859	5	14.253	6.297	6.450	1	0.868	0.030
12	GW	5	200	190.542	190.542	163.962	205.258	98.745	81.981	102.629	5	16.170	8.486	8.486	1	0.262	0.261
16	GW	5	200	220.117	220.117	179.836	248.241	112.306	89.918	124.121	5	28.739	13.056	13.056	1	0.581	0.193
20	GW	40	200	204.668	203.998	163.962	248.241	99.608	95.000	103.028	40	22.435	10.961	10.703	1	0.023	0.254
2	RW	5	200	212.072	212.072	187.550	246.070	105.010	93.775	123.035	5	21.658	10.213	10.213	1	0.694	0.281
4	RW	5	200	232.849	232.849	128.167	326.704	114.509	64.084	163.352	3	71.642	30.767	30.767	1	0.828	0.363
5	RW	5	200	238.720	238.720	216.800	265.000	115.500	108.400	132.500	4	21.139	8.855	8.855	1	0.395	0.015
6	RW	5	200	196.000	196.000	191.000	200.000	98.000	95.500	100.000	5	3.240	1.653	1.653	1	0.543	0.051
10	RW	5	200	189.769	189.769	181.532	198.200	94.965	90.766	99.100	5	5.924	3.122	3.122	1	0.657	0.018
11	RW	5	200	205.318	202.861	196.367	207.976	102.725	98.184	103.988	5	4.905	2.389	2.418	1	0.362	0.262
12	RW	5	200	194.184	194.184	168.010	202.882	100.143	84.005	101.441	5	14.695	7.568	7.568	1	0.002	0.426
16	RW	5	200	222.297	222.297	201.802	235.824	115.302	100.901	117.912	5	14.916	6.710	6.710	1	0.223	0.029
20	RW	40	200	211.401	211.094	128.167	326.704	101.171	99.528	107.485	37	31.234	14.775	14.830	1	0.001	0.031

Table A-91 (continued): PFDA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	183.376	183.376	159.530	203.230	93.795	79.765	101.615	5	16.507	9.002	9.002	1	0.912	0.087
4	SW	5	200	216.151	216.151	163.924	252.546	112.288	81.962	126.273	5	32.892	15.217	15.217	1	0.597	0.334
5	SW	5	200	232.680	232.680	229.400	238.400	114.900	114.700	119.200	5	4.291	1.844	1.844	1	0.054	0.000
6	SW	5	200	214.800	214.800	203.000	231.000	106.500	101.500	115.500	5	10.592	4.931	4.931	1	0.824	0.035
10	SW	5	200	192.472	192.472	176.607	200.809	97.584	88.304	100.405	5	9.741	5.061	5.061	1	0.289	0.159
11	SW	5	200	221.080	216.713	198.836	230.704	109.132	99.418	115.352	5	13.815	6.249	6.375	1	0.530	0.054
12	SW	5	200	181.507	181.507	154.858	194.126	94.387	77.429	97.063	5	15.891	8.755	8.755	1	0.125	0.060
16	SW	5	200	218.319	218.319	177.857	267.706	109.398	88.928	133.853	4	32.357	14.821	14.821	1	0.619	0.274
20	SW	40	200	207.548	207.002	154.858	267.706	103.669	97.584	109.398	39	25.327	12.203	12.110	1	0.886	0.085
2	WW	5	200	198.640	198.640	180.470	222.610	98.845	90.235	111.305	5	17.392	8.756	8.756	1	0.714	0.870
4	WW	5	200	226.864	226.864	165.279	271.614	119.187	82.639	135.807	4	43.369	19.117	19.117	1	0.690	0.238
5	WW	5	200	238.040	238.040	235.600	242.400	118.700	117.800	121.200	5	2.563	1.077	1.077	1	0.099	0.000
6	WW	5	200	224.200	224.200	211.000	235.000	113.000	105.500	117.500	5	8.758	3.906	3.906	1	0.805	0.003
10	WW	5	200	194.798	186.767	174.724	192.949	95.733	87.362	96.475	5	7.923	4.067	4.242	1	0.131	0.020
11	WW	5	200	235.734	221.802	198.323	245.746	107.938	99.161	122.873	5	19.339	8.204	8.719	1	0.715	0.065
12	WW	5	200	195.498	195.498	166.960	240.576	96.334	83.480	120.288	5	29.965	15.328	15.328	1	0.551	0.754
16	WW	5	200	212.045	209.847	174.381	248.796	106.507	87.191	124.398	5	27.094	12.777	12.911	1	0.869	0.462
20	WW	40	200	215.727	212.707	165.279	271.614	106.217	99.161	113.500	39	27.068	12.548	12.709	1	0.406	0.005

Table A-92: PFNA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	186.796	186.796	169.760	199.980	94.395	84.880	99.990	5	11.742	6.286	6.286	1	0.898	0.066
4	GW	5	200	214.254	214.254	176.040	235.744	114.185	88.020	117.872	5	27.035	12.618	12.618	1	0.145	0.304
5	GW	5	200	229.440	229.440	204.400	253.200	114.300	102.200	126.600	5	20.694	9.019	9.019	1	0.692	0.033
6	GW	5	200	197.200	197.200	194.000	199.000	99.000	97.000	99.500	5	2.168	1.099	1.099	1	0.272	0.045
10	GW	5	200	189.648	189.648	185.008	194.740	95.236	92.504	97.370	5	4.285	2.260	2.260	1	0.444	0.006
11	GW	5	200	217.742	212.075	200.858	220.364	106.685	100.429	110.182	5	7.055	3.240	3.327	1	0.412	0.019
12	GW	5	200	181.876	181.876	168.692	194.168	91.437	84.346	97.084	5	12.319	6.773	6.773	1	0.181	0.030
16	GW	5	200	198.513	198.513	168.015	227.012	98.081	84.007	113.506	5	23.583	11.880	11.880	1	0.911	0.895
20	GW	40	200	201.934	201.225	168.015	253.200	98.041	96.839	102.200	40	21.594	10.693	10.506	1	0.090	0.716
2	RW	5	200	211.910	211.910	206.750	217.590	105.380	103.375	108.795	5	4.621	2.180	2.180	1	0.595	0.004
4	RW	5	200	225.887	225.887	214.998	234.726	112.341	107.499	117.363	5	7.513	3.326	3.326	1	0.811	0.002
5	RW	5	200	235.320	235.320	231.200	238.200	118.700	115.600	119.100	5	3.596	1.528	1.528	1	0.032	0.000
6	RW	5	200	191.400	191.400	186.000	197.000	95.500	93.000	98.500	5	4.037	2.109	2.109	1	0.980	0.009
10	RW	5	200	181.898	181.898	174.519	192.268	90.534	87.260	96.134	5	6.497	3.572	3.572	1	0.533	0.003
11	RW	5	200	211.128	207.736	197.580	214.182	105.964	98.790	107.091	5	7.786	3.688	3.748	1	0.114	0.090
12	RW	5	200	182.034	182.034	170.018	191.120	93.973	85.009	95.560	5	10.607	5.827	5.827	1	0.048	0.019
16	RW	5	200	219.422	219.422	170.358	268.565	109.345	85.179	134.282	4	35.298	16.087	16.087	1	0.888	0.286
20	RW	40	200	207.375	206.951	170.018	268.565	104.863	96.134	107.880	39	22.939	11.062	11.064	1	0.281	0.062

Table A-92 (continued): PFNA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	190.058	190.058	162.260	211.600	96.135	81.130	105.800	5	19.481	10.250	10.250	1	0.878	0.317
4	SW	5	200	220.685	220.685	188.985	231.510	113.976	94.492	115.755	5	17.997	8.155	8.155	1	0.009	0.062
5	SW	5	200	233.960	233.960	216.800	250.200	117.300	108.400	125.100	5	11.843	5.062	5.062	1	0.535	0.003
6	SW	5	200	215.200	215.200	207.000	225.000	108.000	103.500	112.500	5	6.797	3.158	3.158	1	0.896	0.007
10	SW	5	200	184.624	184.624	178.496	193.427	92.468	89.248	96.714	5	5.713	3.094	3.094	1	0.636	0.004
11	SW	5	200	217.563	213.465	189.793	226.625	108.732	94.896	113.312	5	14.223	6.537	6.663	1	0.284	0.102
12	SW	5	200	166.150	166.150	144.784	184.656	84.962	72.392	92.328	5	16.852	10.143	10.143	1	0.646	0.011
16	SW	5	200	190.847	190.847	149.228	218.932	96.982	74.614	109.466	5	25.808	13.523	13.523	1	0.497	0.472
20	SW	40	200	202.386	201.874	144.784	250.200	102.665	94.879	108.500	40	26.067	12.880	12.778	1	0.247	0.649
2	WW	5	200	194.688	194.688	185.750	206.470	95.575	92.875	103.235	5	10.044	5.159	5.159	1	0.128	0.302
4	WW	5	200	213.168	213.168	198.566	235.504	105.208	99.283	117.752	5	14.138	6.632	6.632	1	0.636	0.106
5	WW	5	200	229.800	229.800	213.400	256.400	116.100	106.700	128.200	5	17.516	7.622	7.622	1	0.337	0.019
6	WW	5	200	212.800	212.800	205.000	222.000	105.000	102.500	111.000	5	7.328	3.444	3.444	1	0.447	0.017
10	WW	5	200	181.665	181.665	170.700	192.076	90.658	85.350	96.038	5	7.790	4.288	4.288	1	0.961	0.006
11	WW	5	200	228.826	220.411	211.196	233.828	110.844	105.598	116.914	5	9.316	4.071	4.227	1	0.488	0.008
12	WW	5	200	182.830	182.830	161.150	210.852	88.259	80.575	105.426	5	20.341	11.125	11.125	1	0.689	0.132
16	WW	5	200	218.056	218.056	174.717	257.172	108.900	87.358	128.586	5	36.293	16.644	16.644	1	0.507	0.328
20	WW	40	200	207.729	206.677	161.150	257.172	104.500	98.114	107.200	40	24.272	11.685	11.363	1	0.632	0.080

Table A-93: PFOA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	197.676	197.676	170.950	223.040	97.525	85.475	111.520	5	24.664	12.477	12.477	1	0.227	0.843
4	GW	5	200	214.624	214.624	196.385	223.746	109.057	98.192	111.873	5	10.915	5.086	5.086	1	0.197	0.040
5	GW	5	200	221.160	221.160	203.600	245.000	106.900	101.800	122.500	5	18.000	8.139	8.139	1	0.376	0.058
6	GW	5	200	194.600	194.600	189.000	199.000	98.500	94.500	99.500	5	4.722	2.427	2.427	1	0.127	0.063
10	GW	5	200	186.811	186.811	177.821	195.393	93.635	88.911	97.696	5	7.807	4.179	4.179	1	0.472	0.019
11	GW	5	200	217.348	212.984	207.058	220.901	105.322	103.529	110.450	5	5.492	2.527	2.578	1	0.631	0.006
12	GW	5	200	182.438	182.438	164.912	196.630	90.735	82.456	98.315	5	11.821	6.479	6.479	1	0.853	0.029
16	GW	5	200	221.827	221.827	181.406	269.981	103.542	90.703	134.991	3	42.052	18.957	18.957	1	0.171	0.310
20	GW	40	200	204.560	204.015	164.912	269.981	99.250	96.730	105.322	38	23.337	11.408	11.310	1	0.043	0.278
2	RW	5	200	222.706	222.706	205.210	253.880	108.325	102.605	126.940	5	18.598	8.351	8.351	1	0.230	0.052
4	RW	5	200	219.051	219.051	201.584	241.274	106.779	100.792	120.637	5	15.628	7.134	7.134	1	0.764	0.053
5	RW	5	200	229.240	229.240	213.400	251.000	110.700	106.700	125.500	5	15.714	6.855	6.855	1	0.411	0.014
6	RW	5	200	187.200	187.200	183.000	191.000	94.500	91.500	95.500	5	3.493	1.866	1.866	1	0.275	0.001
10	RW	5	200	188.963	188.963	185.542	192.929	94.674	92.771	96.464	5	2.970	1.572	1.572	1	0.832	0.001
11	RW	5	200	206.021	204.868	194.465	221.307	102.397	97.233	110.653	5	10.547	5.119	5.148	1	0.524	0.360
12	RW	5	200	188.718	188.718	167.866	197.020	97.106	83.933	98.510	5	12.233	6.482	6.482	1	0.049	0.108
16	RW	5	200	228.875	228.875	182.244	257.950	119.722	91.122	128.975	5	29.235	12.773	12.773	1	0.482	0.092
20	RW	40	200	208.847	208.703	167.866	257.950	102.501	97.106	108.325	40	22.558	10.801	10.819	1	0.043	0.019

Table A-93 (continued): PFOA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	198.294	197.228	171.354	227.144	101.127	85.677	113.572	5	21.494	10.839	10.898	1	0.805	0.787
4	SW	5	200	222.041	220.554	199.022	236.088	113.408	99.511	118.044	5	14.807	6.669	6.714	1	0.601	0.036
5	SW	5	200	226.360	221.332	209.972	233.772	109.686	104.986	116.886	5	10.278	4.540	4.643	1	0.567	0.010
6	SW	5	200	214.600	206.732	195.132	215.132	104.566	97.566	107.566	5	8.081	3.766	3.909	1	0.698	0.136
10	SW	5	200	185.501	185.501	181.543	189.211	92.570	90.772	94.606	5	3.251	1.753	1.753	1	0.667	0.001
11	SW	5	200	217.812	214.713	203.878	223.429	108.598	101.939	111.715	5	8.974	4.120	4.180	1	0.280	0.021
12	SW	5	200	178.103	178.103	150.424	194.432	89.965	75.212	97.216	5	17.554	9.856	9.856	1	0.453	0.049
16	SW	5	200	217.800	217.800	199.002	234.279	109.141	99.501	117.139	5	13.509	6.203	6.203	1	0.987	0.042
20	SW	40	200	207.564	205.246	150.424	236.088	103.959	99.501	107.566	40	20.909	10.073	9.683	1	0.311	0.103
2	WW	5	200	200.354	199.218	167.374	227.714	100.937	83.687	113.857	5	21.702	10.832	10.894	1	0.809	0.940
4	WW	5	200	219.888	213.559	203.917	235.725	104.023	101.959	117.863	5	13.286	6.042	6.221	1	0.099	0.085
5	WW	5	200	229.240	227.966	205.326	252.726	115.563	102.663	126.363	5	20.460	8.925	8.975	1	0.553	0.038
6	WW	5	200	217.600	214.312	199.712	224.712	107.856	99.856	112.356	5	9.072	4.169	4.233	1	0.348	0.024
10	WW	5	200	193.544	178.118	165.234	192.899	89.074	82.617	96.449	5	10.352	5.348	5.812	1	0.982	0.009
11	WW	5	200	237.384	218.026	209.222	230.017	107.648	104.611	115.008	5	9.281	3.910	4.257	1	0.348	0.012
12	WW	5	200	198.391	186.842	169.666	200.066	93.327	84.833	100.033	5	12.759	6.431	6.829	1	0.639	0.082
16	WW	5	200	241.875	222.350	197.450	252.235	115.388	98.725	126.117	5	23.631	9.770	10.628	1	0.338	0.102
20	WW	40	200	217.285	207.549	165.234	252.726	103.343	99.856	107.856	40	22.691	10.443	10.694	1	0.662	0.038

Table A-94: PFHpA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	186.054	186.054	178.890	197.430	92.525	89.445	98.715	5	7.456	4.007	4.007	1	0.575	0.014
4	GW	5	200	210.224	210.224	184.828	233.428	103.697	92.414	116.714	5	18.024	8.574	8.574	1	0.920	0.273
5	GW	5	200	212.480	212.480	201.200	228.000	102.500	100.600	114.000	5	13.258	6.240	6.240	1	0.058	0.103
6	GW	5	200	193.600	193.600	184.000	202.000	97.500	92.000	101.000	5	6.504	3.359	3.359	1	0.747	0.093
10	GW	5	200	190.547	190.547	178.378	203.050	96.424	89.189	101.525	5	10.244	5.376	5.376	1	0.705	0.108
11	GW	5	200	196.944	194.863	188.189	202.742	96.569	94.095	101.371	5	6.306	3.202	3.236	1	0.503	0.143
12	GW	5	200	183.769	183.769	167.510	195.814	91.180	83.755	97.907	5	10.967	5.968	5.968	1	0.698	0.030
16	GW	5	200	208.846	208.846	165.147	237.471	106.444	82.573	118.735	5	27.368	13.104	13.104	1	0.593	0.510
20	GW	40	200	197.808	197.548	165.147	237.471	97.704	95.077	101.200	40	16.747	8.467	8.492	1	0.194	0.361
2	RW	5	200	215.236	215.236	200.130	225.030	109.335	100.065	112.515	5	9.504	4.415	4.415	1	0.515	0.023
4	RW	5	200	219.440	219.440	199.339	240.900	109.743	99.670	120.450	5	15.302	6.973	6.973	1	0.990	0.047
5	RW	5	200	220.560	220.560	212.400	229.800	109.800	106.200	114.900	5	7.230	3.278	3.278	1	0.766	0.003
6	RW	5	200	189.000	189.000	184.000	192.000	95.500	92.000	96.000	5	3.391	1.794	1.794	1	0.221	0.002
10	RW	5	200	194.352	194.352	185.874	201.595	97.104	92.937	100.797	5	6.051	3.114	3.114	1	0.965	0.105
11	RW	5	200	194.053	194.053	186.243	202.687	96.417	93.121	101.343	5	6.599	3.400	3.400	1	0.884	0.114
12	RW	5	200	174.775	174.775	163.300	186.670	86.882	81.650	93.335	5	8.817	5.045	5.045	1	0.996	0.003
16	RW	5	200	213.706	213.706	182.802	242.787	109.704	91.401	121.393	5	27.892	13.052	13.052	1	0.267	0.334
20	RW	40	200	202.640	202.640	163.300	242.787	99.473	95.500	106.388	40	19.770	9.756	9.756	1	0.288	0.403

Table A-94 (continued): PFHpA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	199.722	197.538	188.206	208.466	98.588	94.103	104.233	5	8.100	4.055	4.100	1	0.908	0.534
4	SW	5	200	216.929	215.841	199.378	229.900	109.789	99.689	114.950	5	14.165	6.530	6.563	1	0.256	0.067
5	SW	5	200	223.600	219.550	210.950	232.150	109.175	105.475	116.075	5	8.081	3.614	3.681	1	0.719	0.006
6	SW	5	200	209.800	204.400	197.600	211.600	100.800	98.800	105.800	5	6.301	3.003	3.083	1	0.246	0.193
10	SW	5	200	192.528	192.528	181.331	202.399	94.575	90.666	101.200	5	9.292	4.826	4.826	1	0.302	0.147
11	SW	5	200	200.411	197.925	186.235	211.124	99.862	93.118	105.562	5	10.188	5.083	5.147	1	0.751	0.672
12	SW	5	200	181.450	181.450	175.220	184.300	91.618	87.610	92.150	5	3.812	2.101	2.101	1	0.125	0.000
16	SW	5	200	190.261	190.261	166.502	215.085	95.311	83.251	107.542	5	23.126	12.155	12.155	1	0.222	0.400
20	SW	40	200	201.838	199.937	166.502	232.150	100.550	95.311	104.233	40	17.157	8.501	8.101	1	0.816	0.980
2	WW	5	200	191.368	191.368	183.780	200.190	95.985	91.890	100.095	5	6.721	3.512	3.512	1	0.788	0.045
4	WW	5	200	216.754	216.754	200.392	251.680	106.265	100.196	125.840	5	20.588	9.498	9.498	1	0.116	0.143
5	WW	5	200	218.920	218.920	209.000	233.400	106.000	104.500	116.700	5	11.947	5.457	5.457	1	0.063	0.024
6	WW	5	200	206.000	206.000	191.000	216.000	105.000	95.500	108.000	5	10.025	4.866	4.866	1	0.555	0.252
10	WW	5	200	194.157	184.231	171.563	193.798	92.673	85.782	96.899	5	8.047	4.144	4.368	1	0.534	0.012
11	WW	5	200	210.528	196.877	190.044	202.842	97.661	95.022	101.421	5	5.649	2.683	2.869	1	0.363	0.284
12	WW	5	200	195.686	189.189	179.268	197.512	94.832	89.634	98.756	5	7.452	3.808	3.939	1	0.827	0.032
16	WW	5	200	197.483	197.483	151.138	264.410	97.037	75.569	132.205	4	43.844	22.201	22.201	1	0.749	0.904
20	WW	40	200	203.862	200.103	151.138	264.410	98.208	95.985	101.489	39	19.707	9.667	10.372	1	0.025	0.975

Table A-95: PFHxA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	178.004	178.004	158.430	196.080	87.630	79.215	98.040	5	14.956	8.402	8.402	1	0.872	0.030
4	GW	5	200	208.536	208.536	166.980	251.036	98.544	83.490	125.518	5	34.299	16.448	16.448	1	0.682	0.608
5	GW	5	200	208.664	205.866	174.522	231.402	103.201	87.261	115.701	5	21.214	10.166	10.305	1	0.935	0.570
6	GW	5	200	194.800	194.800	193.000	201.000	96.500	96.500	100.500	5	3.493	1.793	1.793	1	0.002	0.029
10	GW	5	200	187.471	187.471	181.746	193.593	94.622	90.873	96.797	5	5.235	2.793	2.793	1	0.342	0.006
11	GW	5	200	187.860	186.573	181.460	190.209	93.356	90.730	95.105	5	3.334	1.775	1.787	1	0.766	0.001
12	GW	5	200	182.091	182.091	175.492	188.732	92.006	87.746	94.366	5	5.711	3.136	3.136	1	0.454	0.002
16	GW	5	200	207.516	207.516	159.399	228.440	110.425	79.700	114.220	5	27.998	13.492	13.492	1	0.055	0.581
20	GW	40	200	194.368	193.857	158.430	251.036	95.177	92.897	97.000	40	20.445	10.519	10.456	1	0.025	0.063
2	RW	5	200	208.200	208.200	192.720	218.520	105.040	96.360	109.260	5	9.448	4.538	4.538	1	0.270	0.124
4	RW	5	200	231.414	231.414	216.218	245.856	115.203	108.109	122.928	5	10.868	4.696	4.696	1	0.963	0.003
5	RW	5	200	210.784	208.025	184.961	227.641	101.820	92.480	113.820	5	17.479	8.292	8.402	1	0.638	0.363
6	RW	5	200	182.200	182.200	163.000	190.000	94.000	81.500	95.000	5	11.145	6.117	6.117	1	0.035	0.023
10	RW	5	200	188.471	188.471	185.012	193.737	94.051	92.506	96.869	5	3.408	1.808	1.808	1	0.662	0.002
11	RW	5	200	184.278	184.278	177.087	190.990	91.077	88.543	95.495	5	6.048	3.282	3.282	1	0.383	0.004
12	RW	5	200	186.150	186.150	164.956	196.846	94.282	82.478	98.423	5	12.765	6.857	6.857	1	0.209	0.072
16	RW	5	200	203.205	203.205	153.644	232.997	112.990	76.822	116.499	5	36.441	17.933	17.933	1	0.103	0.854
20	RW	40	200	199.338	198.993	153.644	245.856	95.927	94.000	104.415	40	22.092	11.083	11.019	1	0.113	0.773

Table A-95 (continued): PFHxA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	186.488	183.712	176.504	194.294	91.912	88.252	97.147	5	6.710	3.598	3.653	1	0.563	0.006
4	SW	5	200	218.314	218.314	197.227	240.344	108.868	98.614	120.172	5	15.992	7.325	7.325	1	0.998	0.063
5	SW	5	200	230.308	221.097	187.529	239.789	113.394	93.764	119.894	5	21.469	9.322	9.710	1	0.372	0.093
6	SW	5	200	213.000	203.840	197.840	208.840	103.420	98.920	104.420	5	5.099	2.394	2.501	1	0.119	0.167
10	SW	5	200	184.849	184.849	180.784	194.058	91.200	90.392	97.029	5	5.357	2.898	2.898	1	0.060	0.003
11	SW	5	200	191.919	190.897	182.722	196.427	97.589	91.361	98.214	5	6.644	3.462	3.480	1	0.056	0.038
12	SW	5	200	188.864	188.864	162.480	205.712	96.125	81.240	102.856	5	16.883	8.939	8.939	1	0.620	0.214
16	SW	5	200	191.276	191.276	162.158	216.976	103.311	81.079	108.488	5	26.365	13.784	13.784	1	0.075	0.500
20	SW	40	200	200.627	197.856	162.158	240.344	97.990	92.441	103.311	40	21.394	10.663	9.927	1	0.216	0.494
2	WW	5	200	191.892	190.722	181.210	198.280	97.400	90.605	99.140	5	7.570	3.945	3.969	1	0.232	0.052
4	WW	5	200	218.942	218.942	197.676	242.160	109.214	98.838	121.080	5	18.160	8.294	8.294	1	0.862	0.080
5	WW	5	200	225.760	217.817	195.857	242.257	109.528	97.928	121.128	5	19.272	8.536	8.848	1	0.765	0.108
6	WW	5	200	207.600	200.792	183.192	220.192	99.596	91.596	110.096	5	13.240	6.378	6.594	1	0.731	0.900
10	WW	5	200	233.828	182.184	165.919	199.379	90.361	82.959	99.690	5	11.924	5.100	6.545	1	0.648	0.029
11	WW	5	200	246.397	191.214	184.445	200.424	93.719	92.222	100.212	5	7.460	3.028	3.901	1	0.145	0.058
12	WW	5	200	246.717	197.511	186.854	216.846	97.164	93.427	108.423	5	11.774	4.772	5.961	1	0.329	0.661
16	WW	5	200	224.472	180.008	102.933	262.948	83.975	51.467	131.474	3	61.396	27.351	34.107	1	0.967	0.507
20	WW	40	200	224.451	197.399	102.933	262.948	98.939	93.719	100.212	38	28.808	12.835	13.502	1	0.007	0.541

Table A-96: PFPeA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	213.174	213.174	195.260	236.070	105.475	97.630	118.035	5	14.654	6.874	6.874	1	0.443	0.115
4	GW	5	200	218.122	218.122	189.356	228.098	111.872	94.678	114.049	5	16.336	7.489	7.489	1	0.010	0.068
5	GW	5	200	224.920	224.920	210.400	247.600	108.600	105.200	123.800	5	16.057	7.139	7.139	1	0.298	0.026
6	GW	5	200	193.600	193.600	191.000	199.000	96.000	95.500	99.500	5	3.209	1.658	1.658	1	0.110	0.011
10	GW	5	200	171.418	163.563	159.683	169.138	81.079	79.842	84.569	5	3.945	2.301	2.412	1	0.527	0.000
11	GW	5	200	183.139	183.139	177.278	188.258	91.000	88.639	94.129	5	4.288	2.341	2.341	1	0.760	0.001
12	GW	5	200	183.842	183.842	175.384	189.594	91.433	87.692	94.797	5	5.753	3.129	3.129	1	0.464	0.003
16	GW	5	200	222.715	222.715	210.230	229.575	113.237	105.115	114.787	5	7.868	3.533	3.533	1	0.272	0.003
20	GW	40	200	201.366	200.385	159.683	247.600	97.315	94.424	106.695	40	21.869	10.860	11.655	1	0.222	0.918
2	RW	5	200	235.192	235.192	220.480	244.310	118.195	110.240	122.155	5	9.076	3.859	3.859	1	0.470	0.001
4	RW	5	200	223.116	223.116	205.034	237.960	115.058	102.517	118.980	5	14.282	6.401	6.401	1	0.329	0.022
5	RW	5	200	223.880	223.880	211.000	231.800	114.500	105.500	115.900	5	8.788	3.925	3.925	1	0.242	0.004
6	RW	5	200	180.400	180.400	163.000	186.000	92.000	81.500	93.000	5	9.762	5.411	5.411	1	0.002	0.011
10	RW	5	200	175.673	170.870	162.512	178.644	85.721	81.256	89.322	5	6.065	3.452	3.550	1	0.997	0.000
11	RW	5	200	173.461	173.461	159.293	186.017	87.607	79.647	93.009	5	9.718	5.602	5.602	1	0.873	0.004
12	RW	5	200	181.567	181.567	171.640	192.392	90.343	85.820	96.196	5	7.453	4.105	4.105	1	0.810	0.005
16	RW	5	200	213.297	213.297	207.113	218.626	106.790	103.556	109.313	5	4.171	1.955	1.955	1	0.871	0.002
20	RW	40	200	200.823	200.223	159.293	244.310	99.357	91.622	107.371	40	25.482	12.689	13.052	1	0.009	0.957

Table A-96 (continued): PFPeA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	204.824	197.144	191.540	209.680	96.815	95.770	104.840	5	7.408	3.617	3.758	1	0.086	0.437
4	SW	5	200	229.788	229.788	219.500	235.910	117.010	109.750	117.955	5	7.228	3.146	3.146	1	0.171	0.001
5	SW	5	200	234.920	225.024	210.904	236.504	113.852	105.452	118.252	5	9.732	4.143	4.325	1	0.886	0.005
6	SW	5	200	217.600	217.600	213.000	222.000	108.500	106.500	111.000	5	3.286	1.510	1.510	1	0.858	0.000
10	SW	5	200	170.514	167.355	157.479	176.668	84.894	78.739	88.334	5	8.117	4.760	4.850	1	0.586	0.001
11	SW	5	200	176.527	176.527	165.259	189.941	88.121	82.630	94.970	5	8.928	5.057	5.057	1	0.804	0.004
12	SW	5	200	177.371	177.371	166.764	181.176	90.395	83.382	90.588	5	6.142	3.463	3.463	1	0.017	0.001
16	SW	5	200	200.849	200.849	193.430	212.878	99.716	96.715	106.439	5	8.094	4.030	4.030	1	0.481	0.826
20	SW	40	200	201.549	198.957	157.479	236.504	97.989	90.588	106.500	40	24.607	12.209	11.831	1	0.070	0.781
2	WW	5	200	209.380	200.562	188.162	217.692	98.376	94.081	108.846	5	12.901	6.162	6.432	1	0.418	0.927
4	WW	5	200	236.215	236.215	226.036	248.346	117.355	113.018	124.173	5	9.884	4.184	4.184	1	0.453	0.001
5	WW	5	200	233.040	229.266	214.426	245.826	114.313	107.213	122.913	5	12.517	5.371	5.459	1	0.934	0.006
6	WW	5	200	206.000	206.000	190.000	223.000	103.500	95.000	111.500	5	12.227	5.935	5.935	1	0.984	0.334
10	WW	5	200	206.415	162.584	149.826	168.962	81.684	74.913	84.481	5	7.571	3.668	4.656	1	0.133	0.000
11	WW	5	200	212.936	172.333	167.907	175.903	86.774	83.954	87.951	5	3.928	1.845	2.280	1	0.117	0.000
12	WW	5	200	229.737	187.203	178.746	197.316	94.332	89.373	98.658	5	7.173	3.122	3.832	1	0.802	0.016
16	WW	5	200	285.496	229.814	206.060	254.682	118.863	103.030	127.341	5	21.003	7.357	9.139	1	0.393	0.034
20	WW	40	200	227.402	202.997	149.826	254.682	101.515	94.332	108.846	40	27.341	12.023	13.955	1	0.219	0.507

Table A-97: PFBA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	183.744	181.360	176.256	187.476	91.243	88.128	93.738	5	4.521	2.460	2.493	1	0.668	0.001
4	GW	5	200	219.611	219.611	200.848	232.706	108.158	100.424	116.353	5	13.357	6.082	6.082	1	0.356	0.030
5	GW	5	200	220.960	216.294	207.334	226.934	107.867	103.667	113.467	5	8.550	3.870	3.953	1	0.533	0.013
6	GW	5	200	184.400	183.348	177.948	188.948	92.474	88.974	94.474	5	5.128	2.781	2.797	1	0.210	0.002
10	GW	5	200	167.564	164.631	132.200	183.086	85.834	66.100	91.543	4	20.040	11.960	12.173	1	0.370	0.017
11	GW	5	200	189.343	187.790	183.963	195.061	92.542	91.982	97.530	5	4.658	2.460	2.480	1	0.167	0.004
12	GW	5	200	179.510	179.510	161.722	190.046	89.926	80.861	95.023	5	10.985	6.120	6.120	1	0.360	0.014
16	GW	5	200	223.047	223.047	202.315	242.575	109.693	101.157	121.287	5	15.114	6.776	6.776	1	0.871	0.027
20	GW	40	200	196.022	194.449	132.200	242.575	93.606	91.543	101.157	39	23.144	11.807	11.985	1	0.077	0.140
2	RW	5	200	219.594	219.594	192.810	234.160	112.185	96.405	117.080	5	15.941	7.259	7.259	1	0.223	0.051
4	RW	5	200	221.227	221.227	199.584	237.150	110.767	99.792	118.575	5	14.395	6.507	6.507	1	0.825	0.030
5	RW	5	200	221.400	218.643	201.043	239.243	107.322	100.522	119.622	5	17.368	7.845	7.944	1	0.333	0.074
6	RW	5	200	176.800	176.800	139.000	190.000	93.000	69.500	95.000	4	21.277	12.034	12.034	1	0.004	0.071
10	RW	5	200	131.340	130.234	95.454	144.986	70.266	47.727	72.493	3	20.901	15.914	16.049	1	0.077	0.002
11	RW	5	200	189.801	189.801	180.669	204.534	93.367	90.334	102.267	5	8.980	4.731	4.731	1	0.342	0.064
12	RW	5	200	172.558	172.558	154.576	196.348	84.208	77.288	98.174	5	15.308	8.871	8.871	1	0.637	0.016
16	RW	5	200	213.550	213.550	142.161	239.509	114.161	71.081	119.755	5	40.204	18.826	18.826	1	0.004	0.493
20	RW	40	200	193.284	192.801	95.454	239.509	97.290	93.000	108.573	37	35.970	18.610	18.646	1	0.024	0.213

Table A-97 (continued): PFBA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	176.206	170.062	160.386	191.796	81.098	80.193	95.898	5	13.555	7.693	7.971	1	0.082	0.008
4	SW	5	200	219.319	217.609	199.875	239.573	106.944	99.937	119.786	5	14.553	6.636	6.688	1	0.772	0.054
5	SW	5	200	230.600	226.125	208.125	236.725	115.462	104.062	118.362	5	11.487	4.981	5.080	1	0.395	0.007
6	SW	5	200	152.800	152.800	119.000	186.000	75.500	59.500	93.000	3	27.986	18.315	18.315	1	0.765	0.020
10	SW	5	200	132.551	128.358	109.823	138.825	64.521	54.911	69.412	0	11.616	8.763	9.050	1	0.348	0.000
11	SW	5	200	187.202	187.202	182.608	195.025	92.025	91.304	97.512	5	5.616	3.000	3.000	1	0.142	0.007
12	SW	5	200	174.807	174.807	154.326	185.116	89.056	77.163	92.558	5	12.737	7.286	7.286	1	0.243	0.011
16	SW	5	200	191.435	186.669	133.049	222.626	99.885	66.524	111.313	4	36.650	19.145	19.634	1	0.555	0.462
20	SW	40	200	183.115	180.454	109.823	239.573	91.774	83.167	97.512	32	35.137	19.189	19.396	1	0.386	0.001
2	WW	5	200	168.788	163.924	153.026	186.186	80.283	76.513	93.093	5	13.108	7.766	7.996	1	0.141	0.004
4	WW	5	200	220.890	220.890	202.710	247.238	108.966	101.355	123.619	5	16.318	7.387	7.387	1	0.437	0.046
5	WW	5	200	228.640	218.609	202.569	244.369	107.185	101.285	122.185	5	17.935	7.844	8.204	1	0.404	0.081
6	WW	5	200	155.600	155.600	113.000	198.000	72.500	56.500	99.000	3	36.576	23.506	23.506	1	0.504	0.053
10	WW	5	200	186.426	161.461	134.018	184.989	79.988	67.009	92.494	4	19.759	10.599	12.238	1	0.941	0.012
11	WW	5	200	200.091	192.863	183.326	198.699	98.703	91.663	99.349	5	7.074	3.535	3.668	1	0.097	0.087
12	WW	5	200	184.054	184.054	168.572	195.516	91.147	84.286	97.758	5	10.461	5.684	5.684	1	0.640	0.027
16	WW	5	200	235.997	229.640	143.707	273.492	123.781	71.853	136.746	4	50.080	21.221	21.808	1	0.089	0.256
20	WW	40	200	197.561	190.880	113.000	273.492	95.196	91.053	101.285	36	35.829	18.136	18.930	1	0.932	0.118

Table A-98: PFDS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	193	169.842	169.842	161.090	177.080	87.285	83.466	91.751	5	7.001	4.122	4.122	1	0.417	0.002
4	GW	5	193	193.362	193.362	175.262	217.188	101.222	90.809	112.533	5	18.147	9.385	9.385	1	0.458	0.967
5	GW	5	193	232.960	232.960	208.000	256.800	122.176	107.772	133.057	4	17.568	7.541	7.541	1	0.803	0.007
6	GW	5	193	188.800	188.800	185.000	195.000	97.927	95.855	101.036	5	3.899	2.065	2.065	1	0.375	0.074
10	GW	5	193	165.585	165.585	159.948	170.468	85.769	82.874	88.326	5	4.012	2.423	2.423	1	0.980	0.000
11	GW	5	193	207.466	206.323	196.714	218.730	107.494	101.924	113.332	5	8.354	4.026	4.049	1	0.749	0.023
12	GW	5	193	170.178	170.178	150.886	175.930	90.612	78.179	91.155	5	10.812	6.354	6.354	1	0.001	0.009
16	GW	5	193	250.459	250.459	235.279	270.746	123.896	121.906	140.283	3	17.935	7.161	7.161	1	0.034	0.002
20	GW	40	193	197.332	197.189	150.886	270.746	97.927	90.968	107.494	37	31.552	15.990	15.978	1	0.008	0.406
2	RW	5	193	186.868	186.868	151.230	214.910	98.337	78.358	111.352	5	22.793	12.197	12.197	1	0.321	0.580
4	RW	5	193	190.971	190.971	180.312	204.660	98.512	93.426	106.041	5	10.220	5.352	5.352	1	0.669	0.680
5	RW	5	193	244.920	244.920	218.600	273.200	129.326	113.264	141.554	3	25.110	10.252	10.252	1	0.292	0.010
6	RW	5	193	193.400	193.400	187.000	198.000	101.036	96.891	102.591	5	4.159	2.151	2.151	1	0.617	0.840
10	RW	5	193	169.018	169.018	156.952	181.117	87.869	81.322	93.843	5	8.912	5.273	5.273	1	0.993	0.004
11	RW	5	193	195.837	195.837	185.436	204.272	102.692	96.081	105.841	5	7.867	4.017	4.017	1	0.636	0.465
12	RW	5	193	172.536	172.536	159.982	179.352	90.590	82.892	92.928	5	7.539	4.370	4.370	1	0.265	0.004
16	RW	5	193	244.090	244.090	233.983	255.545	126.154	121.235	132.407	4	8.504	3.484	3.484	1	0.953	0.000
20	RW	40	193	199.705	199.705	151.230	273.200	99.026	96.081	104.267	37	30.433	15.239	15.239	1	0.013	0.171

Table A-98 (continued): PFDS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	193	154.448	154.448	133.980	179.360	75.295	69.420	92.933	4	21.325	13.807	13.807	1	0.166	0.016
4	SW	5	193	197.864	197.864	190.834	204.826	104.075	98.878	106.127	5	6.302	3.185	3.185	1	0.212	0.159
5	SW	5	193	242.680	242.680	222.600	268.400	123.834	115.337	139.067	4	17.357	7.152	7.152	1	0.899	0.003
6	SW	5	193	191.400	191.400	188.000	196.000	99.482	97.409	101.554	5	3.435	1.795	1.795	1	0.419	0.356
10	SW	5	193	165.419	165.419	160.756	170.201	85.503	83.293	88.187	5	3.422	2.069	2.069	1	0.916	0.000
11	SW	5	193	206.282	206.282	199.270	212.659	106.991	103.249	110.186	5	5.147	2.495	2.495	1	0.992	0.004
12	SW	5	193	164.626	164.626	157.948	171.486	86.603	81.838	88.853	5	5.794	3.519	3.519	1	0.371	0.000
16	SW	5	193	222.444	222.444	201.102	241.556	116.265	104.198	125.159	5	15.344	6.898	6.898	1	0.989	0.013
20	SW	40	193	193.145	193.145	133.980	268.400	99.741	90.829	105.526	38	30.970	16.035	16.035	1	0.849	0.976
2	WW	5	193	128.818	128.818	101.570	146.560	72.492	52.627	75.938	3	20.955	16.267	16.267	1	0.129	0.002
4	WW	5	193	193.920	193.920	181.440	210.166	97.545	94.010	108.894	5	12.552	6.473	6.473	1	0.338	0.878
5	WW	5	193	178.324	178.324	101.560	236.600	110.881	52.622	122.591	3	68.774	38.567	38.567	1	0.045	0.658
6	WW	5	193	184.800	184.800	177.000	193.000	96.373	91.710	100.000	5	7.120	3.853	3.853	1	0.425	0.062
10	WW	5	193	165.508	165.508	156.637	172.735	86.048	81.159	89.500	5	5.743	3.470	3.470	1	0.343	0.000
11	WW	5	193	206.838	205.566	193.536	218.697	107.884	100.278	113.315	5	10.556	5.103	5.135	1	0.607	0.056
12	WW	5	193	171.750	171.750	150.972	186.472	92.829	78.224	96.618	5	15.819	9.211	9.211	1	0.258	0.040
16	WW	5	193	246.321	246.321	195.016	274.087	127.953	101.045	142.014	3	31.316	12.714	12.714	1	0.222	0.019
20	WW	40	193	184.535	184.376	101.560	274.087	96.235	89.500	101.045	34	41.562	22.522	22.495	1	0.433	0.196

Table A-99: PFNS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	192	177.132	177.132	156.030	196.480	96.406	81.266	102.333	5	17.257	9.742	9.742	1	0.393	0.126
4	GW	5	192	203.079	203.079	194.048	218.256	103.473	101.067	113.675	5	10.248	5.046	5.046	1	0.331	0.073
5	GW	5	192	231.480	231.480	220.000	245.400	121.458	114.583	127.813	5	9.649	4.169	4.169	1	0.808	0.001
6	GW	5	192	197.640	197.640	195.480	201.280	102.729	101.813	104.833	5	2.260	1.143	1.143	1	0.461	0.005
10	GW	5	192	177.377	177.377	170.987	184.823	92.001	89.056	96.262	5	5.426	3.059	3.059	1	0.947	0.004
11	GW	5	192	218.412	218.412	198.663	228.083	117.665	103.470	118.793	5	12.868	5.892	5.892	1	0.113	0.010
12	GW	5	192	175.422	175.422	158.624	187.302	92.269	82.617	97.553	5	10.466	5.966	5.966	1	0.456	0.024
16	GW	5	192	249.207	249.207	232.792	266.795	131.252	121.246	138.956	2	13.692	5.494	5.494	1	0.820	0.001
20	GW	40	192	203.719	203.719	156.030	266.795	102.938	97.553	113.675	37	27.940	13.715	13.715	1	0.288	0.011
2	RW	5	192	199.282	199.282	163.330	242.940	103.625	85.068	126.531	5	29.605	14.856	14.856	1	0.936	0.612
4	RW	5	192	195.844	195.844	182.503	214.444	100.008	95.054	111.690	5	13.774	7.033	7.033	1	0.470	0.566
5	RW	5	192	241.640	241.640	220.400	262.800	126.667	114.792	136.875	3	18.266	7.559	7.559	1	0.613	0.004
6	RW	5	192	189.088	189.088	187.100	191.000	98.646	97.448	99.479	5	1.779	0.941	0.941	1	0.339	0.022
10	RW	5	192	181.024	181.024	176.628	182.749	94.737	91.994	95.182	5	2.495	1.378	1.378	1	0.015	0.001
11	RW	5	192	201.861	201.861	195.844	210.252	102.774	102.002	109.506	5	7.575	3.753	3.753	1	0.022	0.044
12	RW	5	192	174.319	174.319	164.222	182.732	90.804	85.532	95.173	5	6.707	3.848	3.848	1	0.792	0.004
16	RW	5	192	246.697	246.697	227.608	264.642	127.301	118.546	137.834	3	14.622	5.927	5.927	1	0.916	0.001
20	RW	40	192	203.719	203.719	163.330	264.642	101.005	96.178	109.382	36	28.519	13.999	13.999	1	0.002	0.013

Table A-99 (continued): PFNS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	192	190.286	190.286	165.230	225.090	89.990	86.057	117.234	5	29.871	15.698	15.698	1	0.048	0.904
4	SW	5	192	208.698	208.698	183.435	236.222	108.089	95.539	123.032	5	19.043	9.124	9.124	1	0.893	0.121
5	SW	5	192	239.160	239.160	227.800	248.800	126.771	118.646	129.583	5	10.019	4.189	4.189	1	0.139	0.000
6	SW	5	192	194.740	194.740	193.360	197.400	101.177	100.708	102.813	5	1.686	0.866	0.866	1	0.273	0.022
10	SW	5	192	178.881	178.881	172.182	185.722	92.877	89.678	96.730	5	5.207	2.911	2.911	1	0.991	0.005
11	SW	5	192	215.706	215.706	206.923	221.764	113.693	107.773	115.502	5	6.042	2.801	2.801	1	0.527	0.001
12	SW	5	192	170.190	170.190	165.528	174.358	88.585	86.213	90.811	5	3.161	1.857	1.857	1	0.704	0.000
16	SW	5	192	224.638	224.638	210.117	250.227	116.388	109.436	130.327	4	15.371	6.843	6.843	1	0.227	0.009
20	SW	40	192	202.787	202.787	165.230	250.227	106.755	96.730	113.693	39	25.800	12.722	12.722	1	0.043	0.012
2	WW	5	192	164.178	164.178	142.780	181.640	85.130	74.365	94.604	5	17.207	10.481	10.481	1	0.439	0.022
4	WW	5	192	202.674	202.674	182.685	231.088	105.619	95.148	120.358	5	20.092	9.913	9.913	1	0.595	0.301
5	WW	5	192	214.164	214.164	174.840	242.600	122.813	91.063	126.354	5	33.270	15.535	15.535	1	0.047	0.211
6	WW	5	192	198.292	198.292	184.840	212.240	104.510	96.271	110.542	5	10.186	5.137	5.137	1	0.882	0.239
10	WW	5	192	177.417	177.417	170.380	184.297	93.432	88.740	95.988	5	5.791	3.264	3.264	1	0.601	0.005
11	WW	5	192	222.901	222.901	213.498	229.378	115.932	111.197	119.468	5	6.096	2.735	2.735	1	0.623	0.000
12	WW	5	192	174.621	174.621	161.344	187.348	92.482	84.033	97.577	5	10.569	6.053	6.053	1	0.765	0.021
16	WW	5	192	249.164	249.164	223.872	281.568	126.425	116.600	146.650	3	22.503	9.031	9.031	1	0.840	0.005
20	WW	40	192	200.426	200.426	142.780	281.568	99.049	94.260	111.197	38	31.353	15.643	15.643	1	0.166	0.097

Table A-100: PFOS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	185	177.494	177.494	156.000	193.290	96.443	84.324	104.481	5	15.653	8.819	8.819	1	0.621	0.344
4	GW	5	185	200.285	200.285	163.731	217.210	111.422	88.503	117.411	5	21.693	10.831	10.831	1	0.131	0.190
5	GW	5	185	213.876	213.876	196.980	225.000	120.108	106.476	121.622	5	13.055	6.104	6.104	1	0.092	0.008
6	GW	5	185	184.600	184.600	178.000	190.000	99.459	96.216	102.703	5	4.450	2.410	2.410	1	0.777	0.850
10	GW	5	185	184.165	184.165	178.419	187.306	99.564	96.443	101.246	5	3.615	1.963	1.963	1	0.270	0.633
11	GW	5	185	203.896	197.044	188.684	206.945	105.466	101.991	111.862	5	6.956	3.412	3.530	1	0.901	0.018
12	GW	5	185	167.773	167.773	150.038	174.116	93.342	81.102	94.117	5	10.113	6.028	6.028	1	0.012	0.019
16	GW	5	185	230.930	230.930	221.072	246.570	124.432	119.498	133.281	4	10.333	4.475	4.475	1	0.543	0.001
20	GW	40	185	195.377	194.521	150.038	246.570	103.027	99.459	108.400	39	22.553	11.544	11.483	1	0.612	0.010
2	RW	5	185	179.150	179.150	172.620	193.890	94.995	93.308	104.805	5	8.873	4.953	4.953	1	0.115	0.214
4	RW	5	185	208.464	208.464	185.556	236.130	111.057	100.300	127.638	5	21.228	10.183	10.183	1	0.697	0.069
5	RW	5	185	217.920	217.920	208.000	224.600	119.135	112.432	121.405	5	6.363	2.920	2.920	1	0.562	0.000
6	RW	5	185	181.600	181.600	177.000	187.000	97.297	95.676	101.081	5	4.219	2.323	2.323	1	0.532	0.146
10	RW	5	185	183.127	183.127	178.539	192.276	98.170	96.507	103.933	5	5.373	2.934	2.934	1	0.142	0.479
11	RW	5	185	193.254	189.127	180.792	200.063	100.805	97.725	108.142	5	7.579	3.922	4.007	1	0.753	0.290
12	RW	5	185	167.635	161.413	146.812	175.866	87.043	79.358	95.063	5	10.336	6.166	6.404	1	0.686	0.007
16	RW	5	185	220.050	220.050	210.699	239.912	117.467	113.891	129.682	5	11.705	5.319	5.319	1	0.123	0.003
20	RW	40	185	193.900	192.606	146.812	239.912	100.553	97.697	108.142	40	20.824	10.739	11.394	1	0.159	0.034

Table A-100 (continued): PFOS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	185	174.326	174.326	163.730	184.130	94.054	88.503	99.530	5	7.324	4.201	4.201	1	0.809	0.031
4	SW	5	185	195.292	190.706	165.116	227.180	101.601	89.252	122.800	5	23.536	12.052	12.341	1	0.759	0.617
5	SW	5	185	232.560	219.448	209.488	234.688	116.912	113.237	126.858	5	10.410	4.476	4.744	1	0.538	0.002
6	SW	5	185	198.400	186.620	182.220	191.220	100.659	98.497	103.362	5	3.647	1.838	1.954	1	0.884	0.377
10	SW	5	185	181.830	181.830	178.748	184.209	99.124	96.621	99.572	5	2.750	1.513	1.513	1	0.046	0.061
11	SW	5	185	206.568	200.190	192.791	212.916	107.269	104.211	115.090	5	7.548	3.654	3.770	1	0.161	0.011
12	SW	5	185	167.801	167.801	158.102	174.256	92.065	85.461	94.192	5	6.933	4.131	4.131	1	0.405	0.005
16	SW	5	185	207.828	207.828	187.399	231.310	110.027	101.297	125.032	5	17.020	8.189	8.189	1	0.918	0.040
20	SW	40	185	195.576	191.094	158.102	234.688	100.978	98.497	106.740	40	22.543	11.527	10.266	1	0.122	0.057
2	WW	5	185	189.332	189.332	165.960	206.550	109.232	89.708	111.649	5	19.654	10.381	10.381	1	0.057	0.648
4	WW	5	185	208.441	208.441	189.157	219.960	115.891	102.247	118.897	5	12.428	5.962	5.962	1	0.358	0.014
5	WW	5	185	233.800	221.448	211.048	233.448	119.810	114.080	126.188	5	8.036	3.437	3.629	1	0.691	0.001
6	WW	5	185	196.800	185.928	136.128	201.128	106.556	73.583	108.718	5	27.941	14.198	15.028	1	0.002	0.944
10	WW	5	185	366.183	358.625	171.737	771.866	99.469	92.831	417.225	3	267.599	73.078	74.618	0	0.062	0.220
11	WW	5	185	221.677	205.047	189.283	243.466	107.496	102.315	131.603	4	21.869	9.865	10.666	1	0.018	0.110
12	WW	5	185	176.015	170.830	152.319	180.719	97.385	82.334	97.686	5	13.541	7.693	7.927	1	0.045	0.079
16	WW	5	185	230.597	229.365	214.429	246.017	121.676	115.908	132.982	4	12.988	5.632	5.662	1	0.683	0.002
20	WW	40	185	227.856	221.127	136.128	771.866	108.975	104.921	115.908	36	103.645	45.487	46.715	1	0.000	0.033

Table A-101: PFHpS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	190	169.572	169.572	152.370	178.440	90.163	80.195	93.916	5	10.446	6.160	6.160	1	0.239	0.012
4	GW	5	190	200.349	200.349	184.080	219.350	103.207	96.884	115.447	5	17.447	8.708	8.708	1	0.118	0.255
5	GW	5	190	201.440	201.440	193.780	214.000	103.263	101.989	112.632	5	8.817	4.377	4.377	1	0.186	0.044
6	GW	5	190	192.400	192.400	187.000	198.000	100.526	98.421	104.211	5	4.219	2.193	2.193	1	0.822	0.272
10	GW	5	190	180.336	180.336	174.575	186.994	94.406	91.882	98.418	5	4.577	2.538	2.538	1	0.912	0.009
11	GW	5	190	208.506	208.506	195.799	221.834	109.684	103.052	116.755	5	9.941	4.768	4.768	1	0.998	0.014
12	GW	5	190	174.998	174.998	161.004	182.774	92.277	84.739	96.197	5	8.779	5.017	5.017	1	0.311	0.019
16	GW	5	190	217.320	217.320	214.399	220.736	113.952	112.842	116.177	5	3.115	1.433	1.433	1	0.126	0.000
20	GW	40	190	193.115	193.115	152.370	221.834	101.258	96.197	104.211	40	18.128	9.387	9.387	1	0.147	0.284
2	RW	5	190	181.190	181.190	170.780	207.450	92.174	89.884	109.184	5	15.034	8.297	8.297	1	0.027	0.260
4	RW	5	190	209.301	209.301	201.260	217.098	109.499	105.926	114.262	5	6.062	2.896	2.896	1	0.940	0.002
5	RW	5	190	215.000	215.000	198.200	220.200	115.684	104.316	115.895	5	9.494	4.416	4.416	1	0.003	0.004
6	RW	5	190	187.000	187.000	185.000	189.000	98.421	97.368	99.474	5	1.581	0.846	0.846	1	0.967	0.013
10	RW	5	190	181.805	181.805	174.741	194.055	95.126	91.969	102.134	5	7.408	4.075	4.075	1	0.317	0.069
11	RW	5	190	198.313	198.313	194.275	201.888	104.341	102.250	106.257	5	3.143	1.585	1.585	1	0.798	0.004
12	RW	5	190	176.637	176.637	162.528	188.488	94.074	85.541	99.204	5	9.514	5.386	5.386	1	0.853	0.035
16	RW	5	190	230.094	230.094	214.769	248.474	121.879	113.036	130.776	4	13.368	5.810	5.810	1	0.855	0.003
20	RW	40	190	197.418	197.418	162.528	248.474	102.786	97.895	108.936	39	19.993	10.127	10.127	1	0.243	0.024

Table A-101 (continued): PFHpS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	190	163.646	163.646	147.650	177.900	88.842	77.711	93.632	5	14.582	8.911	8.911	1	0.140	0.016
4	SW	5	190	195.717	195.717	185.608	210.226	100.651	97.688	110.645	5	10.063	5.142	5.142	1	0.506	0.273
5	SW	5	190	212.440	212.440	207.400	220.200	111.684	109.158	115.895	5	5.226	2.460	2.460	1	0.563	0.001
6	SW	5	190	192.600	192.600	190.000	197.000	101.053	100.000	103.684	5	2.702	1.403	1.403	1	0.427	0.098
10	SW	5	190	177.214	177.214	172.056	182.987	93.096	90.556	96.309	5	4.651	2.624	2.624	1	0.669	0.004
11	SW	5	190	201.622	201.622	196.530	209.938	105.239	103.437	110.494	5	5.772	2.863	2.863	1	0.371	0.011
12	SW	5	190	173.318	173.318	166.020	179.418	91.686	87.379	94.431	5	4.864	2.807	2.807	1	0.803	0.002
16	SW	5	190	206.958	206.958	177.139	254.015	103.985	93.231	133.692	4	29.005	14.015	14.015	1	0.436	0.261
20	SW	40	190	190.439	190.439	147.650	254.015	100.589	94.431	103.684	39	19.984	10.494	10.494	1	0.198	0.890
2	WW	5	190	174.584	174.584	150.130	191.080	93.489	79.016	100.568	5	17.054	9.768	9.768	1	0.578	0.113
4	WW	5	190	202.281	202.281	189.757	219.742	107.665	99.872	115.654	5	11.923	5.894	5.894	1	0.543	0.083
5	WW	5	190	218.760	218.760	206.800	238.200	113.789	108.842	125.368	5	11.820	5.403	5.403	1	0.384	0.006
6	WW	5	190	193.000	193.000	180.000	202.000	102.632	94.737	106.316	5	9.798	5.077	5.077	1	0.356	0.531
10	WW	5	190	181.122	181.122	170.408	196.773	94.539	89.689	103.565	5	11.283	6.229	6.229	1	0.496	0.153
11	WW	5	190	207.538	207.538	199.761	215.928	108.844	105.137	113.646	5	7.592	3.658	3.658	1	0.257	0.007
12	WW	5	190	176.936	176.936	162.448	187.742	95.300	85.499	98.812	5	10.226	5.779	5.779	1	0.618	0.046
16	WW	5	190	225.010	225.010	204.155	242.437	120.952	107.450	127.598	5	15.079	6.702	6.702	1	0.823	0.007
20	WW	40	190	197.404	197.404	150.130	242.437	104.351	98.847	107.801	40	21.235	10.757	10.757	1	0.986	0.033

Table A-102: PFHxS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	182.4	179.858	179.858	161.640	192.870	98.509	88.618	105.740	5	12.359	6.871	6.871	1	0.735	0.669
4	GW	5	182.4	192.919	176.537	167.819	197.419	93.990	92.006	108.234	5	11.938	6.188	6.762	1	0.026	0.334
5	GW	5	182.4	191.460	191.460	179.960	206.200	105.132	98.662	113.048	5	10.363	5.413	5.413	1	0.849	0.122
6	GW	5	182.4	183.400	183.400	180.000	185.000	101.425	98.684	101.425	5	2.302	1.255	1.255	1	0.048	0.386
10	GW	5	182.4	181.371	181.371	175.968	184.445	100.553	96.473	101.121	5	3.814	2.103	2.103	1	0.152	0.579
11	GW	5	182.4	184.982	180.142	166.858	203.259	95.875	91.479	111.436	5	14.284	7.722	7.929	1	0.370	0.742
12	GW	5	182.4	168.106	168.106	158.328	176.786	92.607	86.803	96.922	5	6.613	3.934	3.934	1	0.732	0.008
16	GW	5	182.4	205.249	205.249	189.459	226.331	111.354	103.870	124.085	5	13.303	6.482	6.482	1	0.409	0.018
20	GW	40	182.4	185.918	183.265	158.328	226.331	100.167	96.473	101.425	40	13.928	7.491	7.638	1	0.135	0.698
2	RW	5	182.4	192.488	192.488	172.280	225.700	105.987	94.452	123.739	5	20.918	10.867	10.867	1	0.383	0.342
4	RW	5	182.4	191.237	176.957	169.320	187.874	95.629	92.829	103.001	5	7.506	3.925	4.242	1	0.636	0.180
5	RW	5	182.4	203.392	203.392	193.960	208.800	111.623	106.338	114.474	5	5.761	2.832	2.832	1	0.289	0.001
6	RW	5	182.4	174.000	174.000	172.000	176.000	95.395	94.298	96.491	5	1.581	0.909	0.909	1	0.967	0.000
10	RW	5	182.4	180.480	180.480	174.600	184.196	100.476	95.724	100.985	5	4.431	2.455	2.455	1	0.101	0.388
11	RW	5	182.4	175.235	172.501	159.546	200.944	88.672	87.470	110.167	5	17.739	10.123	10.283	1	0.083	0.280
12	RW	5	182.4	167.446	167.446	158.198	173.210	92.993	86.731	94.962	5	5.742	3.429	3.429	1	0.429	0.004
16	RW	5	182.4	208.166	208.166	183.544	229.546	112.507	100.627	125.848	5	19.021	9.137	9.137	1	0.714	0.039
20	RW	40	182.4	186.555	184.429	158.198	229.546	97.607	95.395	103.001	40	17.911	9.601	9.910	1	0.007	0.487

Table A-102 (continued): PFHxS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	182.4	181.832	181.832	166.030	194.200	101.875	91.025	106.469	5	13.205	7.262	7.262	1	0.211	0.928
4	SW	5	182.4	192.442	190.403	160.472	202.347	109.297	87.978	110.936	5	17.520	9.104	9.201	1	0.041	0.365
5	SW	5	182.4	205.264	201.400	188.296	221.936	110.820	103.233	121.676	5	12.979	6.323	6.444	1	0.434	0.031
6	SW	5	182.4	186.800	180.676	178.876	182.876	99.164	98.068	100.261	5	1.789	0.958	0.990	1	0.377	0.097
10	SW	5	182.4	175.647	175.647	168.586	178.523	97.214	92.426	97.875	5	4.111	2.340	2.340	1	0.051	0.021
11	SW	5	182.4	187.211	183.327	169.035	195.524	102.504	92.673	107.195	5	10.114	5.402	5.517	1	0.802	0.848
12	SW	5	182.4	165.672	165.672	156.560	170.242	92.008	85.833	93.334	5	5.360	3.235	3.235	1	0.126	0.002
16	SW	5	182.4	198.853	198.853	179.291	211.965	110.316	98.295	116.209	5	12.709	6.391	6.391	1	0.709	0.044
20	SW	40	182.4	186.715	184.726	156.560	221.936	99.987	97.713	105.535	40	15.539	8.323	8.113	1	0.655	0.332
2	WW	5	182.4	184.610	184.610	175.930	193.790	99.731	96.453	106.245	5	7.439	4.029	4.029	1	0.583	0.543
4	WW	5	182.4	209.901	209.901	153.813	325.902	104.270	84.328	178.674	4	66.784	31.817	31.817	1	0.038	0.409
5	WW	5	182.4	209.920	208.784	201.464	214.464	114.070	110.452	117.579	5	4.993	2.379	2.392	1	0.761	0.000
6	WW	5	182.4	188.200	188.200	181.000	198.000	102.522	99.232	108.553	5	7.662	4.071	4.071	1	0.345	0.166
10	WW	5	182.4	180.756	177.219	170.492	181.904	97.632	93.472	99.728	5	4.423	2.447	2.496	1	0.771	0.059
11	WW	5	182.4	187.610	177.981	168.872	187.673	98.364	92.583	102.891	5	7.523	4.010	4.227	1	0.856	0.259
12	WW	5	182.4	177.410	177.410	170.222	184.334	97.991	93.323	101.060	5	6.275	3.537	3.537	1	0.425	0.150
16	WW	5	182.4	216.383	216.383	197.435	240.901	119.092	108.243	132.073	4	18.374	8.492	8.492	1	0.599	0.014
20	WW	40	182.4	194.349	192.561	153.813	325.902	101.310	99.232	106.360	38	26.941	13.862	14.322	1	0.000	0.025

Table A-103: PFPeS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	188	167.108	167.108	150.090	183.050	88.356	79.835	97.367	5	12.233	7.321	7.321	1	0.984	0.019
4	GW	5	188	202.075	202.075	187.584	213.522	108.131	99.779	113.576	5	11.436	5.659	5.659	1	0.461	0.051
5	GW	5	188	193.128	193.128	186.860	207.400	101.277	99.394	110.319	5	8.171	4.231	4.231	1	0.034	0.233
6	GW	5	188	190.800	190.800	187.000	193.000	102.128	99.468	102.660	5	2.387	1.251	1.251	1	0.294	0.059
10	GW	5	188	184.510	184.510	181.751	186.631	98.076	96.676	99.272	5	1.910	1.035	1.035	1	0.821	0.015
11	GW	5	188	178.373	178.373	173.306	183.175	94.627	92.184	97.434	5	3.982	2.233	2.233	1	0.878	0.006
12	GW	5	188	171.104	171.104	159.390	177.786	91.531	84.782	94.567	5	6.971	4.074	4.074	1	0.193	0.006
16	GW	5	188	205.535	205.535	185.006	220.116	112.570	98.407	117.083	5	13.799	6.713	6.713	1	0.581	0.047
20	GW	40	188	186.579	186.579	150.090	220.116	99.087	96.676	101.277	40	15.357	8.231	8.231	1	0.463	0.562
2	RW	5	188	188.892	188.892	179.560	197.510	100.612	95.511	105.059	5	8.183	4.332	4.332	1	0.363	0.819
4	RW	5	188	205.726	205.726	179.579	216.144	113.502	95.521	114.970	5	15.478	7.524	7.524	1	0.050	0.063
5	RW	5	188	185.088	185.088	163.700	202.200	98.383	87.074	107.553	5	16.022	8.656	8.656	1	0.708	0.705
6	RW	5	188	173.200	173.200	163.000	178.000	93.085	86.702	94.681	5	5.891	3.401	3.401	1	0.063	0.005
10	RW	5	188	183.189	183.189	176.680	186.979	97.962	93.979	99.457	5	3.992	2.179	2.179	1	0.408	0.054
11	RW	5	188	171.751	171.751	159.653	178.270	92.822	84.922	94.824	5	7.234	4.212	4.212	1	0.217	0.007
12	RW	5	188	173.847	173.847	160.030	181.954	93.544	85.122	96.784	5	8.373	4.816	4.816	1	0.357	0.019
16	RW	5	188	206.864	206.864	183.386	227.666	114.480	97.546	121.099	5	18.458	8.923	8.923	1	0.485	0.084
20	RW	40	188	186.070	186.070	159.653	227.666	96.751	93.979	99.457	40	16.861	9.062	9.062	1	0.009	0.473

Table A-103 (continued): PFPeS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	188	162.482	162.482	146.000	178.990	87.176	77.660	95.207	5	12.027	7.402	7.402	1	0.946	0.009
4	SW	5	188	207.839	207.839	195.108	215.282	112.806	103.781	114.512	5	8.989	4.325	4.325	1	0.202	0.008
5	SW	5	188	199.828	199.828	191.580	206.800	107.766	101.904	110.000	5	6.593	3.299	3.299	1	0.396	0.016
6	SW	5	188	186.400	186.400	183.000	191.000	98.936	97.340	101.596	5	3.578	1.919	1.919	1	0.377	0.374
10	SW	5	188	178.709	178.709	173.772	183.148	94.721	92.432	97.419	5	3.512	1.965	1.965	1	0.901	0.004
11	SW	5	188	181.713	181.713	173.521	190.190	97.408	92.299	101.165	5	6.540	3.599	3.599	1	0.898	0.098
12	SW	5	188	168.906	168.906	166.226	170.512	90.253	88.418	90.698	5	1.830	1.084	1.084	1	0.323	0.000
16	SW	5	188	198.065	198.065	181.131	211.286	106.045	96.346	112.386	5	12.184	6.152	6.152	1	0.821	0.138
20	SW	40	188	185.493	185.493	146.000	215.282	97.414	94.721	101.746	40	16.485	8.887	8.887	1	0.724	0.342
2	WW	5	188	174.766	174.766	164.150	184.130	92.979	87.314	97.941	5	8.215	4.700	4.700	1	0.819	0.023
4	WW	5	188	207.566	207.566	197.560	217.092	110.162	105.085	115.474	5	8.865	4.271	4.271	1	0.378	0.008
5	WW	5	188	189.372	189.372	182.740	198.520	100.585	97.202	105.596	5	6.111	3.227	3.227	1	0.814	0.642
6	WW	5	188	191.400	191.400	179.000	202.000	101.596	95.213	107.447	5	8.792	4.594	4.594	1	0.963	0.436
10	WW	5	188	179.023	179.023	169.256	185.006	96.598	90.030	98.407	5	6.221	3.475	3.475	1	0.444	0.032
11	WW	5	188	183.522	183.522	177.108	191.020	97.432	94.206	101.606	5	4.960	2.703	2.703	1	0.541	0.114
12	WW	5	188	175.525	175.525	170.802	183.900	92.414	90.852	97.819	5	5.356	3.051	3.051	1	0.377	0.006
16	WW	5	188	204.706	204.706	166.608	252.680	105.685	88.621	134.404	4	33.862	16.542	16.542	1	0.894	0.332
20	WW	40	188	188.235	188.235	164.150	252.680	97.774	96.598	101.596	39	17.194	9.134	9.134	1	0.000	0.932

Table A-104: PFBS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	177	164.830	164.830	159.200	177.820	90.655	89.944	100.463	5	8.009	4.859	4.859	1	0.080	0.027
4	GW	5	177	194.531	190.554	162.508	210.323	110.681	91.812	118.826	5	21.145	10.870	11.097	1	0.378	0.225
5	GW	5	177	195.840	192.934	169.754	222.094	104.143	95.906	125.477	5	22.925	11.706	11.882	1	0.389	0.195
6	GW	5	177	178.200	173.950	166.750	178.750	99.294	94.209	100.989	5	4.764	2.674	2.739	1	0.587	0.226
10	GW	5	177	178.898	178.898	174.169	182.197	101.241	98.401	102.936	5	2.995	1.674	1.674	1	0.664	0.229
11	GW	5	177	170.938	169.432	163.456	172.521	96.241	92.348	97.469	5	3.468	2.029	2.047	1	0.050	0.008
12	GW	5	177	163.290	163.290	155.062	167.794	92.728	87.606	94.799	5	4.956	3.035	3.035	1	0.274	0.003
16	GW	5	177	189.126	189.126	143.704	208.846	109.931	81.189	117.992	5	26.743	14.141	14.141	1	0.079	0.368
20	GW	40	177	179.457	177.877	143.704	222.094	98.640	95.906	100.989	40	18.240	10.164	9.945	1	0.007	0.756
2	RW	5	177	186.698	186.698	178.790	198.120	104.017	101.011	111.932	5	8.717	4.669	4.669	1	0.295	0.068
4	RW	5	177	200.996	200.996	175.263	253.518	108.482	99.019	143.231	4	30.267	15.058	15.058	1	0.036	0.151
5	RW	5	177	197.764	197.764	187.320	211.200	110.644	105.831	119.322	5	9.160	4.632	4.632	1	0.898	0.007
6	RW	5	177	163.200	163.200	151.000	168.000	93.220	85.311	94.915	5	7.050	4.320	4.320	1	0.034	0.012
10	RW	5	177	165.371	165.371	138.728	183.882	98.012	78.377	103.888	5	18.240	11.030	11.030	1	0.529	0.227
11	RW	5	177	160.281	160.281	151.243	170.480	91.544	85.448	96.317	5	7.666	4.783	4.783	1	0.788	0.008
12	RW	5	177	161.658	161.658	156.530	167.120	90.992	88.435	94.418	5	4.790	2.963	2.963	1	0.385	0.002
16	RW	5	177	180.190	180.190	148.116	210.020	107.216	83.681	118.655	5	24.807	13.767	13.767	1	0.686	0.788
20	RW	40	177	177.020	177.020	138.728	253.518	98.516	93.220	105.831	39	21.709	12.264	12.264	1	0.023	0.995

Table A-104 (continued): PFBS High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	177	166.110	166.110	157.330	173.310	93.395	88.887	97.915	5	6.547	3.942	3.942	1	0.728	0.020
4	SW	5	177	202.753	202.753	169.602	225.330	122.428	95.820	127.305	5	24.311	11.991	11.991	1	0.227	0.077
5	SW	5	177	200.304	197.552	187.868	220.048	108.185	106.140	124.321	5	13.369	6.674	6.767	1	0.083	0.026
6	SW	5	177	174.400	170.976	164.576	176.576	96.371	92.981	99.760	5	4.775	2.738	2.793	1	0.899	0.048
10	SW	5	177	173.869	173.869	169.972	176.321	98.568	96.029	99.616	5	2.344	1.348	1.348	1	0.172	0.040
11	SW	5	177	167.433	167.433	150.567	177.838	95.682	85.066	100.473	5	10.088	6.025	6.025	1	0.130	0.101
12	SW	5	177	158.892	158.892	152.800	161.720	90.373	86.328	91.367	5	3.498	2.201	2.201	1	0.039	0.000
16	SW	5	177	166.623	166.623	144.575	189.802	99.355	81.681	107.233	5	19.910	11.949	11.949	1	0.255	0.309
20	SW	40	177	176.298	175.526	144.575	225.330	97.466	95.627	99.427	40	19.433	11.023	10.873	1	0.002	0.628
2	WW	5	177	168.946	168.946	154.560	185.420	92.791	87.322	104.757	5	13.115	7.763	7.763	1	0.522	0.242
4	WW	5	177	192.157	192.157	175.504	203.750	111.489	99.155	115.113	5	13.016	6.773	6.773	1	0.206	0.060
5	WW	5	177	199.308	199.308	180.780	213.600	112.475	102.136	120.678	5	13.640	6.844	6.844	1	0.680	0.022
6	WW	5	177	182.000	182.000	165.000	191.000	103.390	93.220	107.910	5	10.440	5.736	5.736	1	0.258	0.345
10	WW	5	177	174.724	171.424	164.836	180.113	96.651	93.128	101.759	5	5.511	3.154	3.215	1	0.434	0.086
11	WW	5	177	166.546	163.130	150.725	177.964	89.573	85.155	100.545	5	11.780	7.073	7.221	1	0.428	0.058
12	WW	5	177	170.281	170.281	163.908	174.284	96.605	92.603	98.466	5	3.834	2.251	2.251	1	0.198	0.017
16	WW	5	177	161.445	161.445	120.139	225.372	83.118	67.875	127.329	4	41.019	25.407	25.407	1	0.572	0.444
20	WW	40	177	176.926	176.087	120.139	225.372	98.810	96.466	102.260	39	20.321	11.486	11.722	1	0.832	0.781

Table A-105: PFOSA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	181.626	181.626	174.060	190.380	90.495	87.030	95.190	5	6.039	3.325	3.325	1	0.970	0.002
4	GW	5	200	198.978	198.978	188.378	214.086	97.976	94.189	107.043	5	10.700	5.377	5.377	1	0.585	0.841
5	GW	5	200	222.480	222.480	201.800	235.600	115.300	100.900	117.800	5	14.204	6.384	6.384	1	0.272	0.024
6	GW	5	200	193.600	193.600	190.000	196.000	97.500	95.000	98.000	5	2.510	1.296	1.296	1	0.314	0.005
10	GW	5	200	179.925	179.925	170.813	187.492	91.157	85.406	93.746	5	6.714	3.732	3.732	1	0.723	0.003
11	GW	5	200	186.855	186.855	181.226	194.608	93.544	90.613	97.304	5	5.403	2.892	2.892	1	0.696	0.006
12	GW	5	200	169.055	169.055	163.488	173.684	84.036	81.744	86.842	5	4.377	2.589	2.589	1	0.474	0.000
16	GW	5	200	224.778	224.778	215.609	236.453	112.392	107.804	118.226	5	7.609	3.385	3.385	1	0.727	0.002
20	GW	40	200	194.662	194.662	163.488	236.453	95.095	91.812	97.976	40	20.295	10.426	10.426	1	0.014	0.104
2	RW	5	200	177.550	177.550	159.880	183.250	90.765	79.940	91.625	5	9.910	5.581	5.581	1	0.002	0.007
4	RW	5	200	192.372	192.372	167.785	204.936	99.243	83.893	102.468	5	14.524	7.550	7.550	1	0.137	0.305
5	RW	5	200	211.600	211.600	209.000	217.800	105.100	104.500	108.900	5	3.606	1.704	1.704	1	0.058	0.002
6	RW	5	200	188.600	188.600	186.000	193.000	94.000	93.000	96.500	5	2.966	1.573	1.573	1	0.391	0.001
10	RW	5	200	173.911	173.911	164.473	179.442	87.111	82.236	89.721	5	6.049	3.478	3.478	1	0.413	0.001
11	RW	5	200	181.645	181.645	170.076	192.384	90.176	85.038	96.192	5	8.410	4.630	4.630	1	0.958	0.008
12	RW	5	200	145.838	145.838	139.644	151.468	72.498	69.822	75.734	4	4.819	3.304	3.304	1	0.786	0.000
16	RW	5	200	202.284	202.284	187.569	212.128	101.708	93.785	106.064	5	10.231	5.058	5.058	1	0.566	0.644
20	RW	40	200	184.225	184.225	139.644	217.800	93.000	89.721	96.192	39	20.397	11.072	11.072	1	0.127	0.000

Table A-105 (continued): PFOSA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	180.820	180.820	172.700	190.490	90.705	86.350	95.245	5	6.804	3.763	3.763	1	0.929	0.003
4	SW	5	200	190.264	190.264	178.964	204.960	93.922	89.482	102.480	5	11.158	5.864	5.864	1	0.544	0.123
5	SW	5	200	208.636	208.636	191.380	218.400	105.500	95.690	109.200	5	10.148	4.864	4.864	1	0.069	0.130
6	SW	5	200	187.800	187.800	185.000	191.000	93.500	92.500	95.500	5	2.280	1.214	1.214	1	0.814	0.000
10	SW	5	200	177.853	177.853	168.266	184.379	89.533	84.133	92.190	5	6.245	3.511	3.511	1	0.733	0.001
11	SW	5	200	187.244	187.244	177.025	191.169	94.476	88.513	95.584	5	5.815	3.105	3.105	1	0.016	0.008
12	SW	5	200	167.944	167.944	162.362	171.908	85.085	81.181	85.954	5	4.664	2.777	2.777	1	0.087	0.000
16	SW	5	200	206.199	206.199	193.222	222.710	100.420	96.611	111.355	5	11.853	5.749	5.749	1	0.589	0.307
20	SW	40	200	188.345	188.345	162.362	222.710	93.711	90.705	95.500	40	14.892	7.907	7.907	1	0.220	0.000
2	WW	5	200	183.078	183.078	177.270	188.580	91.055	88.635	94.290	5	4.216	2.303	2.303	1	0.878	0.001
4	WW	5	200	200.677	200.677	192.716	211.336	100.993	96.358	105.668	5	7.543	3.759	3.759	1	0.604	0.851
5	WW	5	200	229.760	229.760	226.200	234.600	114.400	113.100	117.300	5	3.419	1.488	1.488	1	0.698	0.000
6	WW	5	200	198.400	198.400	186.000	210.000	97.500	93.000	105.000	5	9.607	4.842	4.842	1	0.650	0.728
10	WW	5	200	177.441	177.441	164.613	186.737	89.424	82.306	93.369	5	8.096	4.563	4.563	1	0.589	0.003
11	WW	5	200	188.744	188.744	184.605	193.208	94.426	92.302	96.604	5	3.079	1.632	1.632	1	0.769	0.001
12	WW	5	200	171.604	171.604	156.856	179.030	87.163	78.428	89.515	5	8.757	5.103	5.103	1	0.182	0.002
16	WW	5	200	227.408	227.408	192.865	244.095	118.326	96.432	122.048	5	21.263	9.350	9.350	1	0.173	0.045
20	WW	40	200	197.139	197.139	156.856	244.095	95.466	92.675	100.993	40	22.443	11.384	11.384	1	0.013	0.425

Table A-106: FtS 8:2 High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	192	169.838	169.838	129.460	199.710	91.813	67.427	104.016	4	25.920	15.262	15.262	1	0.690	0.128
4	GW	5	192	209.077	209.077	180.914	262.862	105.327	94.226	136.907	4	32.123	15.364	15.364	1	0.221	0.300
5	GW	5	192	228.080	228.080	206.200	258.400	116.563	107.396	134.583	4	19.286	8.456	8.456	1	0.666	0.014
6	GW	5	192	204.684	204.684	196.700	213.680	106.438	102.448	111.292	5	6.132	2.996	2.996	1	0.874	0.010
10	GW	5	192	193.860	193.860	173.241	214.006	100.976	90.230	111.461	5	16.441	8.481	8.481	1	0.915	0.813
11	GW	5	192	221.218	221.218	207.404	230.847	116.453	108.023	120.233	5	8.828	3.990	3.990	1	0.685	0.002
12	GW	5	192	178.471	178.471	158.486	202.472	90.369	82.545	105.454	5	17.001	9.526	9.526	1	0.877	0.150
16	GW	5	192	209.616	209.616	190.239	237.437	111.343	99.083	123.665	5	19.211	9.165	9.165	1	0.437	0.110
20	GW	40	192	201.855	201.855	129.460	262.862	106.005	100.306	111.292	37	26.103	12.931	12.931	1	0.827	0.022
2	RW	5	192	191.494	191.494	167.350	229.520	98.911	87.161	119.542	5	25.096	13.105	13.105	1	0.557	0.966
4	RW	5	192	209.551	209.551	190.019	232.972	107.609	98.968	121.340	5	16.101	7.684	7.684	1	0.949	0.071
5	RW	5	192	241.200	241.200	223.200	281.600	124.063	116.250	146.667	4	23.899	9.908	9.908	1	0.080	0.010
6	RW	5	192	200.780	200.780	195.200	207.100	104.219	101.667	107.865	5	4.294	2.139	2.139	1	0.811	0.010
10	RW	5	192	212.892	212.892	189.780	237.242	109.877	98.844	123.563	5	18.619	8.746	8.746	1	0.970	0.066
11	RW	5	192	213.194	213.194	202.854	224.904	111.211	105.653	117.137	5	7.919	3.715	3.715	1	0.739	0.004
12	RW	5	192	172.762	172.762	151.786	193.990	86.361	79.055	101.036	5	19.328	11.188	11.188	1	0.243	0.090
16	RW	5	192	229.351	229.351	187.915	287.011	112.933	97.872	149.485	4	36.860	16.071	16.071	1	0.586	0.086
20	RW	40	192	208.903	208.903	151.786	287.011	107.737	104.010	112.911	38	27.890	13.351	13.351	1	0.097	0.000

Table A-106 (continued): FtS 8:2 High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	192	183.656	183.656	138.390	201.650	102.203	72.078	105.026	5	26.140	14.233	14.233	1	0.032	0.515
4	SW	5	192	197.491	197.491	153.249	251.922	100.613	79.817	131.209	4	40.128	20.319	20.319	1	0.825	0.775
5	SW	5	192	250.040	250.040	216.600	283.800	129.271	112.813	147.813	3	26.975	10.788	10.788	1	0.924	0.009
6	SW	5	192	226.644	226.644	193.820	260.880	117.750	100.948	135.875	4	26.140	11.533	11.533	1	0.986	0.041
10	SW	5	192	201.034	201.034	182.924	223.474	100.517	95.273	116.393	5	18.833	9.368	9.368	1	0.191	0.344
11	SW	5	192	204.570	204.570	192.087	213.552	107.065	100.046	111.225	5	8.516	4.163	4.163	1	0.791	0.030
12	SW	5	192	178.778	178.778	153.608	194.810	98.361	80.004	101.464	5	17.942	10.036	10.036	1	0.223	0.175
16	SW	5	192	197.323	197.323	182.593	230.824	98.699	95.100	120.221	5	19.956	10.113	10.113	1	0.103	0.583
20	SW	40	192	204.942	204.942	138.390	283.800	103.609	100.046	111.225	36	31.323	15.284	15.284	1	0.428	0.013
2	WW	5	192	285.350	285.350	205.620	314.200	155.417	107.094	163.646	1	45.131	15.816	15.816	1	0.008	0.010
4	WW	5	192	221.864	221.864	209.554	252.662	109.573	109.143	131.595	4	18.626	8.395	8.395	1	0.040	0.023
5	WW	5	192	214.516	214.516	199.780	249.800	105.417	104.052	130.104	4	21.189	9.877	9.877	1	0.056	0.076
6	WW	5	192	275.432	275.432	233.420	288.200	148.490	121.573	150.104	1	23.523	8.540	8.540	1	0.001	0.001
10	WW	5	192	183.059	183.059	158.072	215.783	93.120	82.329	112.387	5	22.452	12.265	12.265	1	0.879	0.424
11	WW	5	192	223.820	223.820	220.484	226.472	117.461	114.835	117.954	5	2.818	1.259	1.259	1	0.095	0.000
12	WW	5	192	180.392	180.392	150.092	206.724	91.858	78.173	107.669	5	22.029	12.212	12.212	1	0.868	0.304
16	WW	5	192	230.883	230.883	200.283	276.893	117.122	104.314	144.215	4	30.403	13.168	13.168	1	0.682	0.046
20	WW	40	192	226.914	226.914	150.092	314.200	114.449	107.669	117.954	29	42.828	18.874	18.874	1	0.037	0.000

Table A-107: FtS 6:2 High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	190	179.342	179.342	136.660	236.820	92.926	71.926	124.642	5	38.746	21.604	21.604	1	0.859	0.572
4	GW	5	190	194.936	194.936	171.279	211.494	104.961	90.147	111.313	5	17.360	8.905	8.905	1	0.460	0.559
5	GW	5	190	214.148	212.493	175.285	255.345	109.445	92.255	134.392	4	29.873	13.950	14.059	1	0.973	0.168
6	GW	5	190	194.600	194.600	186.000	200.000	103.158	97.895	105.263	5	5.273	2.709	2.709	1	0.435	0.123
10	GW	5	190	380.226	357.660	131.983	1089.030	87.074	69.465	573.174	2	412.143	108.394	115.233	0	0.003	0.414
11	GW	5	190	72.484	72.484	65.590	78.053	37.254	34.521	41.080	0	5.397	7.445	7.445	1	0.345	0.000
12	GW	5	190	160.716	160.716	148.892	178.242	79.992	78.364	93.812	5	14.202	8.837	8.837	1	0.064	0.010
16	GW	5	190	103.361	103.361	94.981	110.714	55.475	49.990	58.270	0	6.685	6.468	6.468	1	0.568	0.000
20	GW	40	190	187.476	184.449	65.590	1089.030	91.928	78.364	102.105	26	159.059	84.842	84.391	0	0.000	0.823
2	RW	5	190	199.472	199.472	179.170	215.940	104.253	94.300	113.653	5	13.790	6.913	6.913	1	0.855	0.199
4	RW	5	190	199.694	199.694	182.733	226.576	102.893	96.175	119.251	5	17.917	8.972	8.972	1	0.549	0.293
5	RW	5	190	213.516	213.516	185.580	232.600	115.474	97.674	122.421	5	18.245	8.545	8.545	1	0.675	0.045
6	RW	5	190	199.200	197.160	187.960	213.960	102.611	98.926	112.611	5	9.884	4.962	5.013	1	0.138	0.181
10	RW	5	190	238.333	215.291	172.116	304.116	105.271	90.587	160.061	4	52.675	22.101	24.467	1	0.159	0.343
11	RW	5	190	101.190	101.190	68.309	217.564	38.718	35.952	114.507	1	65.124	64.358	64.358	0	0.001	0.038
12	RW	5	190	161.980	161.980	137.964	180.436	84.471	72.613	94.966	5	16.404	10.127	10.127	1	0.810	0.019
16	RW	5	190	115.087	115.087	105.472	126.550	58.383	55.512	66.605	0	8.857	7.696	7.696	1	0.446	0.000
20	RW	40	190	178.559	175.424	68.309	304.116	98.380	91.381	104.253	30	54.348	30.437	29.335	1	0.006	0.081

Table A-107 (continued): FtS 6:2 High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	190	201.758	201.758	177.890	242.100	103.100	93.626	127.421	5	23.944	11.867	11.867	1	0.125	0.334
4	SW	5	190	194.547	193.514	175.857	204.383	103.022	92.556	107.570	5	10.596	5.446	5.475	1	0.220	0.500
5	SW	5	190	198.724	195.954	180.910	204.430	104.016	95.216	107.595	5	8.985	4.521	4.585	1	0.245	0.212
6	SW	5	190	247.400	236.946	183.546	310.546	118.708	96.603	163.445	3	50.590	20.448	21.351	1	0.775	0.107
10	SW	5	190	198.179	142.114	120.343	166.558	74.124	63.338	87.662	3	19.112	9.644	13.448	1	0.801	0.005
11	SW	5	190	75.676	75.676	69.657	80.389	40.208	36.661	42.310	0	4.365	5.768	5.768	1	0.793	0.000
12	SW	5	190	161.130	161.130	131.872	178.052	87.339	69.406	93.712	4	19.048	11.822	11.822	1	0.418	0.028
16	SW	5	190	103.313	103.313	92.679	107.420	55.392	48.778	56.537	0	6.094	5.898	5.898	1	0.026	0.000
20	SW	40	190	172.591	163.800	69.657	310.546	93.191	74.124	103.022	25	57.600	33.374	33.792	1	0.060	0.005
2	WW	5	190	206.850	197.492	172.432	214.332	104.633	90.754	112.806	5	15.583	7.534	7.891	1	0.510	0.343
4	WW	5	190	211.013	211.013	190.152	249.050	106.067	100.080	131.079	4	24.142	11.441	11.441	1	0.318	0.123
5	WW	5	190	231.440	223.182	197.742	254.742	115.759	104.075	134.075	4	25.199	10.888	11.291	1	0.455	0.042
6	WW	5	190	282.200	267.720	233.520	312.520	131.853	122.905	164.484	2	35.379	12.537	13.215	1	0.244	0.008
10	WW	5	190	188.991	169.999	153.823	192.076	87.776	80.960	101.093	5	14.093	7.457	8.290	1	0.671	0.034
11	WW	5	190	84.006	79.355	72.139	85.198	41.895	37.968	44.841	0	4.780	5.690	6.023	1	0.858	0.000
12	WW	5	190	177.923	157.640	137.348	177.906	78.568	72.288	93.635	5	18.641	10.477	11.825	1	0.183	0.018
16	WW	5	190	120.368	120.368	105.998	138.192	62.387	55.788	72.733	1	14.071	11.690	11.690	1	0.505	0.000
20	WW	40	190	187.849	178.346	72.139	312.520	96.857	80.960	105.654	26	61.935	32.971	33.519	1	0.515	0.225

Table A-108: FtS 4:2 High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	187	170.690	170.690	153.610	192.610	89.053	82.144	103.000	5	14.423	8.450	8.450	1	0.750	0.065
4	GW	5	187	197.604	197.604	171.483	217.570	106.431	91.702	116.348	5	16.838	8.521	8.521	1	0.722	0.232
5	GW	5	187	207.944	207.944	193.720	224.800	108.663	103.594	120.214	5	12.285	5.908	5.908	1	0.733	0.019
6	GW	5	187	174.400	174.400	170.000	180.000	93.048	90.909	96.257	5	3.647	2.091	2.091	1	0.775	0.002
10	GW	5	187	148.504	148.504	137.736	157.521	79.632	73.656	84.236	5	7.545	5.081	5.081	1	0.973	0.000
11	GW	5	187	173.458	173.458	162.716	178.475	93.320	87.014	95.441	5	6.396	3.687	3.687	1	0.124	0.009
12	GW	5	187	175.683	175.683	161.894	194.654	91.005	86.574	104.093	5	13.666	7.779	7.779	1	0.514	0.138
16	GW	5	187	211.273	211.273	188.678	220.982	114.920	100.897	118.172	5	12.881	6.097	6.097	1	0.020	0.014
20	GW	40	187	182.444	182.444	137.736	224.800	94.424	91.702	103.594	40	22.864	12.532	12.532	1	0.239	0.215
2	RW	5	187	204.496	204.496	194.050	234.240	105.150	103.770	125.262	5	16.814	8.222	8.222	1	0.006	0.081
4	RW	5	187	214.114	214.114	200.146	227.278	113.020	107.030	121.539	5	11.488	5.365	5.365	1	0.592	0.006
5	RW	5	187	201.696	201.696	178.280	217.400	109.412	95.337	116.257	5	15.178	7.525	7.525	1	0.708	0.096
6	RW	5	187	173.800	173.800	161.000	183.000	93.583	86.096	97.861	5	7.981	4.592	4.592	1	0.385	0.021
10	RW	5	187	195.979	195.979	184.725	204.818	105.581	98.783	109.528	5	7.424	3.788	3.788	1	0.846	0.054
11	RW	5	187	175.866	175.866	169.821	183.520	93.944	90.813	98.139	5	5.599	3.184	3.184	1	0.782	0.011
12	RW	5	187	181.214	181.214	161.248	196.138	96.718	86.229	104.887	5	14.691	8.107	8.107	1	0.596	0.428
16	RW	5	187	208.239	208.239	186.487	218.234	115.206	99.726	116.702	5	13.572	6.518	6.518	1	0.111	0.025
20	RW	40	187	194.426	194.426	161.000	234.240	105.002	98.139	107.481	40	18.382	9.455	9.455	1	0.606	0.015

Table A-108 (continued): FtS 4:2 High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	187	155.726	155.726	136.350	178.030	78.545	72.914	95.203	5	19.928	12.797	12.797	1	0.127	0.025
4	SW	5	187	200.076	200.076	167.975	219.832	109.211	89.826	117.557	5	19.777	9.885	9.885	1	0.475	0.213
5	SW	5	187	211.040	211.040	202.200	217.400	113.262	108.128	116.257	5	5.967	2.828	2.828	1	0.810	0.001
6	SW	5	187	221.200	221.200	182.000	283.000	110.160	97.326	151.337	4	41.578	18.796	18.796	1	0.483	0.140
10	SW	5	187	175.118	175.118	152.828	183.946	96.441	81.726	98.367	5	12.699	7.252	7.252	1	0.020	0.105
11	SW	5	187	177.849	177.849	173.511	188.121	93.306	92.787	100.599	5	6.276	3.529	3.529	1	0.072	0.031
12	SW	5	187	177.058	177.058	160.950	186.564	98.675	86.070	99.767	5	11.964	6.757	6.757	1	0.084	0.137
16	SW	5	187	193.713	193.713	185.281	211.643	100.390	99.081	113.178	5	11.405	5.887	5.887	1	0.121	0.258
20	SW	40	187	188.972	188.972	136.350	283.000	99.115	96.051	105.539	39	26.927	14.249	14.249	1	0.023	0.646
2	WW	5	187	164.886	164.886	157.010	180.860	86.695	83.963	96.717	5	9.528	5.779	5.779	1	0.182	0.007
4	WW	5	187	220.902	220.902	202.708	246.858	116.364	108.400	132.010	4	18.711	8.470	8.470	1	0.549	0.015
5	WW	5	187	220.280	220.280	207.200	247.400	115.294	110.802	132.299	4	16.052	7.287	7.287	1	0.150	0.010
6	WW	5	187	251.400	251.400	217.000	292.000	127.807	116.043	156.150	3	30.072	11.962	11.962	1	0.662	0.009
10	WW	5	187	147.235	147.235	134.466	162.629	79.674	71.907	86.967	5	12.351	8.388	8.388	1	0.445	0.002
11	WW	5	187	185.559	185.559	175.045	189.054	100.284	93.607	101.098	5	5.935	3.198	3.198	1	0.005	0.616
12	WW	5	187	175.546	175.546	164.786	186.048	94.898	88.121	99.491	5	10.300	5.867	5.867	1	0.164	0.068
16	WW	5	187	215.094	215.094	174.867	244.543	118.489	93.512	130.772	4	29.922	13.911	13.911	1	0.518	0.104
20	WW	40	187	197.613	197.613	134.466	292.000	101.069	94.898	115.294	35	37.089	18.769	18.769	1	0.419	0.078

Table A-109: NEtFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	182.658	182.658	167.240	218.260	87.110	83.620	109.130	5	20.449	11.195	11.195	1	0.038	0.131
4	GW	5	200	221.139	221.139	196.055	278.810	105.118	98.028	139.405	4	33.556	15.174	15.174	1	0.071	0.232
5	GW	5	200	309.240	309.240	244.400	380.600	152.300	122.200	190.300	1	49.376	15.967	15.967	1	0.919	0.008
6	GW	5	200	192.400	192.400	189.000	198.000	95.500	94.500	99.000	5	3.435	1.785	1.785	1	0.334	0.008
10	GW	5	200	187.841	187.841	174.212	198.161	94.335	87.106	99.080	5	8.879	4.727	4.727	1	0.822	0.038
11	GW	5	200	209.713	204.869	197.535	213.718	103.077	98.768	106.859	5	6.992	3.334	3.413	1	0.478	0.194
12	GW	5	200	185.422	185.422	164.750	199.068	95.454	82.375	99.534	5	13.150	7.092	7.092	1	0.493	0.068
16	GW	5	200	240.099	240.099	225.616	251.729	119.358	112.808	125.865	5	11.329	4.718	4.718	1	0.481	0.001
20	GW	40	200	216.064	215.459	164.750	380.600	99.062	95.518	106.859	35	45.679	21.141	21.254	1	0.000	0.039
2	RW	5	200	178.936	178.936	142.670	199.550	95.005	71.335	99.775	5	22.744	12.710	12.710	1	0.293	0.107
4	RW	5	200	205.953	205.953	153.114	307.138	96.835	76.557	153.569	4	61.487	29.855	29.855	1	0.262	0.839
5	RW	5	200	282.880	282.880	201.000	317.600	152.900	100.500	158.800	1	47.479	16.784	16.784	1	0.045	0.017
6	RW	5	200	197.800	197.800	194.000	203.000	98.500	97.000	101.500	5	3.701	1.871	1.871	1	0.687	0.255
10	RW	5	200	199.017	199.017	192.605	204.591	99.918	96.303	102.295	5	4.843	2.433	2.433	1	0.862	0.673
11	RW	5	200	180.481	179.290	171.164	188.727	89.185	85.582	94.363	5	6.370	3.529	3.553	1	0.857	0.002
12	RW	5	200	179.177	179.177	154.814	193.330	91.931	77.407	96.665	5	14.570	8.131	8.131	1	0.234	0.033
16	RW	5	200	241.281	241.281	210.757	291.587	116.943	105.379	145.794	4	32.472	13.458	13.458	1	0.522	0.047
20	RW	40	200	208.191	208.042	142.670	317.600	97.697	95.005	101.132	34	44.798	21.518	21.579	1	0.000	0.264

Table A-109 (continued): NEtFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	185.052	185.052	161.640	220.310	92.555	80.820	110.155	5	23.520	12.710	12.710	1	0.603	0.228
4	SW	5	200	215.453	215.453	197.235	246.578	107.666	98.617	123.289	5	19.296	8.956	8.956	1	0.337	0.148
5	SW	5	200	298.320	298.320	269.400	331.400	148.800	134.700	165.700	0	24.429	8.189	8.189	1	0.952	0.001
6	SW	5	200	203.800	203.800	195.000	213.000	101.500	97.500	106.500	5	6.535	3.206	3.206	1	0.927	0.263
10	SW	5	200	194.487	194.487	186.821	208.323	95.183	93.411	104.162	5	8.751	4.499	4.499	1	0.286	0.232
11	SW	5	200	197.825	194.402	187.999	202.648	97.467	93.999	101.324	5	6.213	3.141	3.196	1	0.568	0.114
12	SW	5	200	176.302	176.302	159.304	197.932	87.038	79.652	98.966	5	14.235	8.074	8.074	1	0.851	0.020
16	SW	5	200	218.965	218.965	199.022	259.760	105.443	99.511	129.880	5	23.759	10.851	10.851	1	0.097	0.149
20	SW	40	200	211.276	210.848	159.304	331.400	100.193	97.467	104.162	35	39.290	18.596	18.713	1	0.000	0.090
2	WW	5	200	202.024	202.024	188.190	218.770	102.060	94.095	109.385	5	12.388	6.132	6.132	1	0.734	0.733
4	WW	5	200	206.102	206.102	188.457	237.380	98.988	94.229	118.690	5	20.276	9.838	9.838	1	0.336	0.538
5	WW	5	200	303.200	303.200	265.800	353.200	147.500	132.900	176.600	0	32.030	10.564	10.564	1	0.633	0.002
6	WW	5	200	234.800	234.800	221.000	248.000	116.000	110.500	124.000	5	10.756	4.581	4.581	1	0.811	0.002
10	WW	5	200	184.066	184.066	175.058	196.416	91.455	87.529	98.208	5	7.774	4.223	4.223	1	0.525	0.010
11	WW	5	200	199.740	193.591	176.177	207.699	97.366	88.088	103.849	5	11.347	5.681	5.862	1	0.653	0.275
12	WW	5	200	183.998	183.998	160.438	196.630	92.744	80.219	98.315	5	14.646	7.960	7.960	1	0.290	0.071
16	WW	5	200	243.022	243.022	207.502	267.555	125.338	103.751	133.777	3	26.075	10.729	10.729	1	0.419	0.021
20	WW	40	200	219.619	218.850	160.438	353.200	102.888	97.366	112.395	33	41.473	18.884	19.145	1	0.001	0.007

Table A-110: NMeFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	GW	5	200	183.472	183.472	148.890	212.110	92.960	74.445	106.055	5	25.062	13.660	13.660	1	0.915	0.214
4	GW	5	200	207.366	207.366	183.154	234.006	103.126	91.577	117.003	5	20.165	9.724	9.724	1	0.950	0.460
5	GW	5	200	266.524	266.524	179.820	337.800	143.500	89.910	168.900	2	60.938	22.864	22.864	1	0.826	0.071
6	GW	5	200	189.400	189.400	185.000	192.000	95.000	92.500	96.000	5	2.702	1.427	1.427	1	0.427	0.001
10	GW	5	200	185.602	185.602	177.750	192.573	94.529	88.875	96.287	5	7.003	3.773	3.773	1	0.127	0.010
11	GW	5	200	214.397	210.079	200.396	218.471	104.480	100.198	109.235	5	7.051	3.289	3.356	1	0.884	0.033
12	GW	5	200	185.935	185.935	161.540	201.608	94.676	80.770	100.804	5	15.133	8.139	8.139	1	0.531	0.106
16	GW	5	200	223.775	223.775	203.567	236.785	115.756	101.784	118.392	5	14.239	6.363	6.363	1	0.269	0.020
20	GW	40	200	207.059	206.519	148.890	337.800	98.572	95.000	104.480	37	35.578	17.182	17.186	1	0.000	0.252
2	RW	5	200	203.736	203.736	170.300	237.820	102.100	85.150	118.910	5	23.892	11.727	11.727	1	0.437	0.744
4	RW	5	200	197.077	197.077	173.370	230.008	97.904	86.685	115.004	5	21.554	10.937	10.937	1	0.798	0.777
5	RW	5	200	222.068	222.068	153.340	280.000	110.900	76.670	140.000	4	47.278	21.290	21.290	1	0.959	0.356
6	RW	5	200	197.600	197.600	195.000	200.000	99.000	97.500	100.000	5	2.510	1.270	1.270	1	0.105	0.099
10	RW	5	200	194.354	194.354	186.936	207.569	97.243	93.468	103.784	5	8.162	4.200	4.200	1	0.259	0.197
11	RW	5	200	186.998	184.507	169.160	193.537	94.480	84.580	96.769	5	9.765	5.222	5.292	1	0.362	0.024
12	RW	5	200	176.090	176.090	163.242	186.222	89.399	81.621	93.111	5	8.600	4.884	4.884	1	0.789	0.003
16	RW	5	200	231.538	231.538	214.066	279.783	108.442	107.033	139.892	4	27.958	12.075	12.075	1	0.020	0.065
20	RW	40	200	201.183	200.871	153.340	280.000	97.702	94.480	102.100	38	27.049	13.445	13.555	1	0.005	0.841

Table A-110 (continued): NMeFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike Conc	Mean	Modified mean	Modified minimum	Modified maximum	Recovery modified median	Recovery modified median 95% LCL	Recovery modified median 95% UCL	Recovery modified accept total	Std Dev	RSD	Modified RSD	RSD accept (1 = yes, 0 = no)	Modified mean probability normal	Modified mean probability t-test
2	SW	5	200	179.378	179.378	155.590	211.650	92.175	77.795	105.825	5	23.122	12.890	12.890	1	0.495	0.117
4	SW	5	200	212.681	212.681	157.279	259.706	107.017	78.640	129.853	5	42.573	20.017	20.017	1	0.759	0.542
5	SW	5	200	270.240	270.240	202.000	325.200	133.500	101.000	162.600	2	46.327	17.143	17.143	1	0.881	0.028
6	SW	5	200	201.800	201.800	195.000	207.000	100.500	97.500	103.500	5	4.868	2.412	2.412	1	0.643	0.455
10	SW	5	200	190.720	190.720	184.092	199.707	93.754	92.046	99.853	5	6.517	3.417	3.417	1	0.425	0.033
11	SW	5	200	206.047	202.431	192.224	211.555	103.079	96.112	105.778	5	8.353	4.054	4.126	1	0.374	0.551
12	SW	5	200	174.538	174.538	157.082	192.782	89.888	78.541	96.391	5	15.977	9.154	9.154	1	0.316	0.024
16	SW	5	200	216.987	216.987	190.991	261.772	105.322	95.496	130.886	4	26.655	12.284	12.284	1	0.209	0.227
20	SW	40	200	206.549	206.097	155.590	325.200	99.927	95.496	103.500	36	37.064	17.945	17.997	1	0.000	0.305
2	WW	5	200	170.258	170.258	134.370	190.740	90.985	67.185	95.370	4	23.513	13.810	13.810	1	0.279	0.047
4	WW	5	200	219.652	219.652	175.360	252.986	114.484	87.680	126.493	5	30.815	14.029	14.029	1	0.769	0.227
5	WW	5	200	220.288	220.288	126.080	320.000	108.900	63.040	160.000	3	71.106	32.279	32.279	1	0.986	0.558
6	WW	5	200	201.200	201.200	187.000	213.000	102.000	93.500	106.500	5	9.985	4.963	4.963	1	0.892	0.801
10	WW	5	200	181.548	181.548	167.142	198.566	92.197	83.571	99.283	5	12.333	6.793	6.793	1	0.766	0.029
11	WW	5	200	205.265	198.309	188.858	206.948	99.293	94.429	103.474	5	6.530	3.181	3.293	1	0.898	0.594
12	WW	5	200	176.031	176.031	150.672	197.144	88.393	75.336	98.572	5	19.047	10.820	10.820	1	0.808	0.048
16	WW	5	200	232.141	232.141	216.380	264.321	112.596	108.190	132.160	4	19.765	8.514	8.514	1	0.205	0.022
20	WW	40	200	200.798	199.928	126.080	320.000	98.482	93.500	103.000	36	35.336	17.598	17.657	1	0.067	0.990

Table A-111: M2PFTeDA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	125.276	115.140	140.020	76.525	71.963	87.513	5	10.469	8.356	1	0.537	0.002
4	GW	5	160	152.100	133.919	171.658	93.799	83.700	107.287	5	13.848	9.105	1	0.960	0.271
5	GW	5	160	165.472	146.060	182.260	104.725	91.288	113.913	5	17.001	10.274	1	0.250	0.512
6	GW	5	160	146.600	139.000	154.000	91.875	86.875	96.250	5	7.021	4.789	1	0.271	0.013
10	GW	5	160	154.908	140.219	166.495	98.337	87.637	104.059	5	9.630	6.216	1	0.740	0.303
11	GW	5	160	186.761	174.967	207.705	114.862	109.355	129.816	5	12.471	6.678	1	0.231	0.009
12	GW	5	160	142.225	93.614	166.306	93.173	58.509	103.941	4	29.853	20.990	1	0.220	0.254
16	GW	5	160	168.614	139.475	252.108	95.617	87.172	157.567	4	47.145	27.960	1	0.006	0.704
20	GW	40	160	155.244	93.614	252.108	95.473	91.288	98.725	38	26.867	17.306	1	0.014	0.270
2	RW	5	160	126.116	110.030	143.610	80.863	68.769	89.756	4	13.316	10.559	1	0.812	0.005
4	RW	5	160	117.993	92.680	154.992	71.621	57.925	96.870	3	23.178	19.644	1	0.599	0.015
5	RW	5	160	183.432	172.000	198.840	116.213	107.500	124.275	5	10.858	5.919	1	0.524	0.008
6	RW	5	160	168.200	157.000	180.000	106.250	98.125	112.500	5	9.257	5.504	1	0.839	0.119
10	RW	5	160	172.184	164.159	183.613	106.332	102.599	114.758	5	7.595	4.411	1	0.749	0.023
11	RW	5	160	194.109	177.346	225.058	115.857	110.841	140.661	4	19.617	10.106	1	0.277	0.018
12	RW	5	160	151.458	127.688	175.936	93.420	79.805	109.960	5	18.342	12.110	1	0.995	0.357
16	RW	5	160	176.655	160.439	194.861	109.491	100.274	121.788	5	12.709	7.194	1	0.976	0.043
20	RW	40	160	161.268	92.680	225.058	106.291	98.125	109.638	36	29.232	18.126	1	0.089	0.785

Table A-111 (continued): M2PFTeDA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	129.186	118.450	145.320	79.113	74.031	90.825	5	9.932	7.688	1	0.409	0.002
4	SW	5	160	152.831	136.261	172.044	93.508	85.163	107.527	5	14.576	9.538	1	0.805	0.333
5	SW	5	160	178.264	169.220	193.540	109.838	105.763	120.963	5	9.533	5.348	1	0.467	0.013
6	SW	5	160	134.400	129.000	141.000	83.125	80.625	88.125	5	4.450	3.311	1	0.777	0.000
10	SW	5	160	155.973	152.218	160.721	96.307	95.137	100.450	5	4.100	2.629	1	0.111	0.093
11	SW	5	160	192.453	187.367	197.144	120.494	117.104	123.215	5	4.335	2.252	1	0.477	0.000
12	SW	5	160	140.990	133.674	161.226	84.608	83.546	100.766	5	11.528	8.177	1	0.012	0.021
16	SW	5	160	176.781	156.534	193.183	109.510	97.834	120.739	5	15.573	8.809	1	0.585	0.074
20	SW	40	160	157.610	118.450	197.144	97.070	88.125	105.763	40	23.541	14.937	1	0.028	0.525
2	WW	5	160	128.092	101.240	141.400	85.413	63.275	88.375	4	16.666	13.011	1	0.164	0.013
4	WW	5	160	184.507	141.496	308.718	100.225	88.435	192.949	4	70.062	37.972	1	0.005	0.478
5	WW	5	160	189.048	155.320	251.600	109.700	97.075	157.250	4	37.242	19.700	1	0.204	0.156
6	WW	5	160	147.200	126.000	169.000	91.250	78.750	105.625	5	15.320	10.408	1	0.702	0.135
10	WW	5	160	158.870	148.453	173.775	95.901	92.783	108.610	5	12.207	7.683	1	0.111	0.846
11	WW	5	160	190.525	185.240	199.729	118.771	115.775	124.830	5	5.590	2.934	1	0.306	0.000
12	WW	5	160	149.332	123.062	171.998	90.765	76.914	107.499	5	18.875	12.639	1	0.825	0.275
16	WW	5	160	169.198	131.689	191.247	107.307	82.306	119.529	5	24.235	14.324	1	0.439	0.444
20	WW	40	160	164.597	101.240	308.718	100.785	92.158	107.307	37	35.688	21.682	1	0.000	0.420

Table A-112: MPFDoA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	128.524	113.140	139.810	84.706	70.713	87.381	5	12.476	9.707	1	0.120	0.005
4	GW	5	160	157.834	150.340	169.021	95.242	93.963	105.638	5	8.789	5.568	1	0.089	0.611
5	GW	5	160	173.960	165.580	182.120	109.638	103.488	113.825	5	7.342	4.220	1	0.437	0.013
6	GW	5	160	150.800	149.000	153.000	94.375	93.125	95.625	5	1.789	1.186	1	0.377	0.000
10	GW	5	160	158.996	142.587	166.747	102.024	89.117	104.217	5	9.868	6.206	1	0.144	0.831
11	GW	5	160	167.934	156.744	184.468	103.631	97.965	115.293	5	10.134	6.035	1	0.290	0.155
12	GW	5	160	143.048	112.288	156.688	92.566	70.180	97.930	5	18.022	12.599	1	0.089	0.103
16	GW	5	160	182.004	115.008	214.027	121.207	71.880	133.767	4	38.711	21.269	1	0.064	0.273
20	GW	40	160	157.887	112.288	214.027	97.947	94.375	103.535	39	22.434	14.209	1	0.310	0.555
2	RW	5	160	153.038	141.550	169.860	94.163	88.469	106.163	5	10.340	6.757	1	0.300	0.207
4	RW	5	160	152.790	142.670	166.109	94.174	89.169	103.818	5	8.620	5.642	1	0.717	0.135
5	RW	5	160	175.268	167.200	183.580	110.863	104.500	114.738	5	7.616	4.345	1	0.233	0.011
6	RW	5	160	159.800	154.000	171.000	98.125	96.250	106.875	5	6.611	4.137	1	0.132	0.949
10	RW	5	160	166.167	154.200	173.145	105.953	96.375	108.216	5	7.671	4.616	1	0.366	0.147
11	RW	5	160	169.989	156.038	181.115	106.062	97.524	113.197	5	9.791	5.760	1	0.893	0.085
12	RW	5	160	146.889	135.116	162.368	88.381	84.448	101.480	5	12.898	8.781	1	0.151	0.085
16	RW	5	160	180.097	156.848	199.519	114.262	98.030	124.700	5	15.822	8.785	1	0.935	0.047
20	RW	40	160	163.005	135.116	199.519	101.694	97.524	106.062	40	14.581	8.945	1	0.906	0.200

Table A-112 (continued): MPFDoA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	123.164	111.750	132.110	76.031	69.844	82.569	4	7.998	6.494	1	0.711	0.001
4	SW	5	160	157.483	135.897	171.361	99.998	84.936	107.101	5	13.249	8.413	1	0.449	0.693
5	SW	5	160	180.572	174.820	189.380	111.563	109.263	118.363	5	5.552	3.074	1	0.511	0.001
6	SW	5	160	161.400	157.000	164.000	101.875	98.125	102.500	5	3.209	1.988	1	0.147	0.385
10	SW	5	160	158.557	151.482	167.942	99.524	94.676	104.964	5	6.527	4.116	1	0.738	0.647
11	SW	5	160	170.597	161.295	175.108	106.976	100.810	109.442	5	5.573	3.267	1	0.138	0.013
12	SW	5	160	145.889	109.026	175.622	97.118	68.141	109.764	4	26.845	18.401	1	0.715	0.305
16	SW	5	160	164.087	137.904	194.106	100.476	86.190	121.316	5	20.583	12.544	1	0.924	0.680
20	SW	40	160	157.719	109.026	194.106	100.624	98.047	104.964	38	20.493	12.994	1	0.013	0.486
2	WW	5	160	131.498	126.030	135.840	83.163	78.769	84.900	5	4.679	3.558	1	0.165	0.000
4	WW	5	160	196.674	158.365	325.860	103.972	98.978	203.663	4	72.506	36.866	1	0.001	0.321
5	WW	5	160	188.544	180.140	196.660	119.963	112.588	122.913	5	7.330	3.888	1	0.264	0.001
6	WW	5	160	167.000	156.000	177.000	104.375	97.500	110.625	5	8.093	4.846	1	0.989	0.125
10	WW	5	160	157.281	142.051	175.617	96.896	88.782	109.761	5	15.803	10.048	1	0.237	0.720
11	WW	5	160	175.916	169.946	183.036	109.714	106.216	114.397	5	5.492	3.122	1	0.713	0.003
12	WW	5	160	152.882	133.876	166.986	102.474	83.673	104.366	5	16.703	10.925	1	0.030	0.395
16	WW	5	160	181.589	110.800	235.694	119.756	69.250	147.309	3	45.537	25.077	1	0.655	0.349
20	WW	40	160	168.923	110.800	325.860	105.296	99.181	109.714	37	35.057	20.753	1	0.000	0.116

Table A-113: M7PFUdA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	137.108	120.610	154.670	83.031	75.381	96.669	5	12.968	9.458	1	0.838	0.017
4	GW	5	160	165.345	150.845	181.830	102.361	94.278	113.644	5	11.724	7.091	1	0.985	0.366
5	GW	5	160	175.484	164.380	188.240	107.425	102.738	117.650	5	9.803	5.586	1	0.644	0.024
6	GW	5	160	156.600	155.000	159.000	97.500	96.875	99.375	5	1.817	1.160	1	0.254	0.014
10	GW	5	160	160.932	143.797	171.855	104.388	89.873	107.409	5	11.997	7.455	1	0.298	0.870
11	GW	5	160	180.563	165.385	191.897	114.836	103.366	119.936	5	10.203	5.651	1	0.791	0.011
12	GW	5	160	151.821	146.436	169.594	91.775	91.523	105.996	5	10.029	6.606	1	0.003	0.142
16	GW	5	160	176.840	135.014	195.426	117.860	84.384	122.142	5	25.606	14.480	1	0.111	0.215
20	GW	40	160	163.087	120.610	195.426	102.549	96.875	106.250	40	18.360	11.258	1	0.708	0.294
2	RW	5	160	144.572	129.060	171.290	84.488	80.663	107.056	5	17.807	12.317	1	0.258	0.125
4	RW	5	160	169.994	161.208	179.285	106.621	100.755	112.053	5	7.465	4.392	1	0.803	0.040
5	RW	5	160	187.460	175.540	193.900	118.500	109.713	121.188	5	7.017	3.743	1	0.149	0.001
6	RW	5	160	160.800	155.000	172.000	98.125	96.875	107.500	5	6.943	4.318	1	0.173	0.809
10	RW	5	160	172.704	161.801	180.883	109.880	101.126	113.052	5	7.789	4.510	1	0.601	0.022
11	RW	5	160	166.861	160.040	176.515	102.434	100.025	110.322	5	7.116	4.265	1	0.379	0.097
12	RW	5	160	158.881	138.452	178.004	99.130	86.533	111.253	5	15.580	9.806	1	0.966	0.880
16	RW	5	160	173.329	149.413	208.866	105.245	93.383	130.541	4	22.220	12.820	1	0.583	0.251
20	RW	40	160	166.825	129.060	208.866	105.016	101.081	109.280	39	16.648	9.979	1	0.602	0.013

Table A-113 (continued): M7PFUdA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	147.064	124.570	172.790	91.025	77.856	107.994	5	17.458	11.871	1	0.881	0.173
4	SW	5	160	171.571	146.553	185.031	109.163	91.596	115.644	5	15.063	8.780	1	0.268	0.161
5	SW	5	160	185.196	168.320	196.240	117.325	105.200	122.650	5	10.572	5.708	1	0.588	0.006
6	SW	5	160	164.000	152.000	172.000	105.625	95.000	107.500	5	8.573	5.228	1	0.247	0.356
10	SW	5	160	164.128	157.244	177.156	101.042	98.277	110.722	5	8.369	5.099	1	0.285	0.332
11	SW	5	160	169.346	158.040	185.894	105.538	98.775	116.184	5	11.199	6.613	1	0.671	0.135
12	SW	5	160	154.311	129.650	174.614	102.030	81.031	109.134	5	21.476	13.918	1	0.139	0.586
16	SW	5	160	164.577	141.234	187.170	100.680	88.271	116.981	5	19.296	11.724	1	0.684	0.624
20	SW	40	160	165.024	124.570	196.240	105.369	98.775	107.994	40	17.189	10.416	1	0.513	0.072
2	WW	5	160	153.060	106.220	187.210	100.738	66.388	117.006	4	30.703	20.059	1	0.786	0.640
4	WW	5	160	194.907	153.080	302.372	103.514	95.675	188.983	4	61.486	31.546	1	0.020	0.273
5	WW	5	160	191.356	175.440	209.600	121.488	109.650	131.000	4	15.358	8.026	1	0.346	0.010
6	WW	5	160	165.800	151.000	181.000	102.500	94.375	113.125	5	11.122	6.708	1	0.973	0.308
10	WW	5	160	160.140	145.280	171.453	103.773	90.800	107.158	5	11.469	7.162	1	0.279	0.980
11	WW	5	160	180.768	165.657	191.980	115.665	103.535	119.987	5	10.174	5.628	1	0.642	0.010
12	WW	5	160	150.211	136.580	161.110	95.740	85.363	100.694	5	10.322	6.871	1	0.609	0.101
16	WW	5	160	182.984	169.566	195.393	112.743	105.979	122.121	5	10.562	5.772	1	0.719	0.008
20	WW	40	160	172.403	106.220	302.372	105.574	102.500	111.096	37	28.949	16.792	1	0.000	0.010

Table A-114: M6PFDA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	147.084	134.500	170.750	87.894	84.063	106.719	5	15.244	10.364	1	0.256	0.131
4	GW	5	160	167.158	160.138	179.624	101.548	100.086	112.265	5	8.156	4.879	1	0.213	0.121
5	GW	5	160	177.320	162.660	195.540	111.850	101.663	122.213	5	12.310	6.942	1	0.792	0.035
6	GW	5	160	156.600	155.000	160.000	97.500	96.875	100.000	5	2.074	1.324	1	0.171	0.021
10	GW	5	160	167.796	151.526	184.269	105.244	94.704	115.168	5	14.027	8.360	1	0.648	0.282
11	GW	5	160	189.002	180.219	200.129	116.599	112.637	125.081	5	9.004	4.764	1	0.328	0.002
12	GW	5	160	171.804	149.670	181.454	111.545	93.544	113.409	5	13.367	7.780	1	0.089	0.120
16	GW	5	160	164.543	148.431	179.688	102.822	92.769	112.305	5	11.284	6.858	1	0.912	0.419
20	GW	40	160	167.663	134.500	200.129	105.181	100.086	111.616	40	15.822	9.437	1	0.616	0.004
2	RW	5	160	152.230	131.050	170.090	96.138	81.906	106.306	5	13.936	9.155	1	0.529	0.281
4	RW	5	160	172.744	148.016	196.389	108.070	92.510	122.743	5	17.271	9.998	1	0.773	0.174
5	RW	5	160	177.972	169.500	185.100	111.313	105.938	115.688	5	5.703	3.205	1	0.899	0.002
6	RW	5	160	155.600	147.000	170.000	96.250	91.875	106.250	5	8.735	5.614	1	0.364	0.323
10	RW	5	160	172.523	162.328	182.761	108.478	101.455	114.226	5	7.366	4.269	1	0.829	0.019
11	RW	5	160	180.419	172.628	190.085	112.084	107.893	118.803	5	6.652	3.687	1	0.943	0.002
12	RW	5	160	167.167	148.950	181.552	106.606	93.094	113.470	5	13.028	7.793	1	0.812	0.286
16	RW	5	160	173.377	143.161	215.241	108.931	89.476	134.525	4	26.949	15.544	1	0.657	0.329
20	RW	40	160	169.004	131.050	215.241	107.249	101.455	110.021	39	16.002	9.468	1	0.243	0.001

Table A-114 (continued): M6PFDA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	135.156	127.570	141.080	85.113	79.731	88.175	5	4.946	3.659	1	0.760	0.000
4	SW	5	160	170.554	160.773	182.794	104.459	100.483	114.246	5	8.755	5.133	1	0.704	0.054
5	SW	5	160	171.260	147.840	191.080	112.238	92.400	119.425	5	18.402	10.745	1	0.425	0.243
6	SW	5	160	157.400	151.000	165.000	97.500	94.375	103.125	5	5.320	3.380	1	0.913	0.336
10	SW	5	160	165.204	160.182	169.921	103.678	100.114	106.201	5	3.756	2.274	1	0.969	0.036
11	SW	5	160	189.881	178.893	200.910	117.389	111.808	125.569	5	10.314	5.432	1	0.243	0.003
12	SW	5	160	166.375	144.622	192.694	102.648	90.389	120.434	5	17.466	10.498	1	0.831	0.460
16	SW	5	160	154.238	139.274	167.050	96.039	87.046	104.406	5	10.559	6.846	1	0.962	0.289
20	SW	40	160	163.758	127.570	200.910	102.249	97.500	104.459	40	18.070	11.035	1	0.757	0.196
2	WW	5	160	135.336	122.900	146.800	87.588	76.813	91.750	5	11.164	8.249	1	0.171	0.008
4	WW	5	160	197.308	155.720	328.728	105.410	97.325	205.455	4	73.831	37.419	1	0.002	0.322
5	WW	5	160	183.228	171.160	197.540	111.150	106.975	123.463	5	11.312	6.173	1	0.375	0.010
6	WW	5	160	166.000	151.000	177.000	108.125	94.375	110.625	5	11.662	7.025	1	0.166	0.314
10	WW	5	160	164.143	142.702	177.113	102.103	89.189	110.696	5	14.226	8.667	1	0.371	0.550
11	WW	5	160	194.093	179.741	207.501	121.806	112.338	129.688	5	10.963	5.648	1	0.962	0.002
12	WW	5	160	160.519	135.762	179.716	98.200	84.851	112.323	5	18.000	11.213	1	0.608	0.952
16	WW	5	160	172.483	139.859	208.844	99.410	87.412	130.528	4	31.803	18.438	1	0.206	0.430
20	WW	40	160	171.639	122.900	328.728	107.550	98.200	110.675	38	33.638	19.598	1	0.000	0.035

Table A-115: M9PFNA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	131.562	109.560	148.560	79.763	68.475	92.850	4	15.609	11.865	1	0.571	0.015
4	GW	5	160	168.723	161.570	184.661	103.230	100.981	115.413	5	9.307	5.516	1	0.084	0.104
5	GW	5	160	166.880	161.080	177.540	103.725	100.675	110.963	5	6.378	3.822	1	0.230	0.073
6	GW	5	160	155.200	152.000	158.000	96.875	95.000	98.750	5	2.387	1.538	1	0.899	0.011
10	GW	5	160	163.108	145.803	173.703	102.614	91.127	108.564	5	10.493	6.433	1	0.319	0.544
11	GW	5	160	190.641	185.024	199.921	117.733	115.640	124.951	5	6.511	3.416	1	0.306	0.000
12	GW	5	160	150.028	136.806	158.828	96.043	85.504	99.268	5	9.995	6.662	1	0.244	0.090
16	GW	5	160	161.425	137.154	177.703	105.466	85.722	111.064	5	16.692	10.340	1	0.471	0.858
20	GW	40	160	160.946	109.560	199.921	101.447	96.875	104.225	39	18.688	11.612	1	0.770	0.751
2	RW	5	160	153.280	138.730	184.810	89.744	86.706	115.506	5	18.780	12.252	1	0.094	0.468
4	RW	5	160	175.100	163.578	183.159	111.356	102.236	114.475	5	8.344	4.765	1	0.452	0.016
5	RW	5	160	173.136	168.480	177.640	108.188	105.300	111.025	5	3.344	1.931	1	0.979	0.001
6	RW	5	160	154.000	148.000	167.000	94.375	92.500	104.375	5	7.583	4.924	1	0.086	0.152
10	RW	5	160	168.688	162.461	178.550	105.424	101.538	111.594	5	6.174	3.660	1	0.455	0.035
11	RW	5	160	179.162	173.775	187.744	110.208	108.610	117.340	5	5.688	3.175	1	0.380	0.002
12	RW	5	160	151.125	141.098	170.886	90.421	88.186	106.804	5	12.389	8.198	1	0.178	0.184
16	RW	5	160	159.617	129.395	203.576	91.988	80.872	127.235	5	31.588	19.790	1	0.428	0.980
20	RW	40	160	164.263	129.395	203.576	105.362	97.279	108.610	40	16.901	10.289	1	0.260	0.119

Table A-115 (continued): M9PFNA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	125.380	116.870	138.670	76.694	73.044	86.669	5	8.515	6.791	1	0.585	0.001
4	SW	5	160	168.880	157.413	176.765	107.445	98.383	110.478	5	7.434	4.402	1	0.574	0.056
5	SW	5	160	169.172	165.500	173.220	106.013	103.438	108.263	5	3.394	2.007	1	0.478	0.004
6	SW	5	160	164.400	156.000	172.000	102.500	97.500	107.500	5	6.348	3.861	1	0.931	0.196
10	SW	5	160	160.650	145.472	170.541	101.589	90.920	106.588	5	9.281	5.777	1	0.386	0.883
11	SW	5	160	189.447	179.262	205.118	118.070	112.039	128.199	5	9.853	5.201	1	0.555	0.003
12	SW	5	160	154.209	138.326	167.330	98.478	86.454	104.581	5	11.436	7.416	1	0.841	0.321
16	SW	5	160	161.947	150.894	172.657	102.715	94.308	107.911	5	9.079	5.606	1	0.671	0.657
20	SW	40	160	161.761	116.870	205.118	103.076	100.295	106.013	40	18.680	11.548	1	0.041	0.555
2	WW	5	160	129.840	108.700	157.680	82.544	67.938	98.550	4	18.722	14.420	1	0.748	0.023
4	WW	5	160	188.382	144.490	294.866	103.237	90.306	184.291	4	61.626	32.713	1	0.048	0.361
5	WW	5	160	173.920	162.280	187.640	108.513	101.425	117.275	5	9.639	5.542	1	0.978	0.032
6	WW	5	160	160.000	148.000	173.000	99.375	92.500	108.125	5	9.301	5.813	1	0.992	1.000
10	WW	5	160	160.926	149.661	170.531	103.177	93.538	106.582	5	9.918	6.163	1	0.147	0.845
11	WW	5	160	187.332	179.692	195.783	116.471	112.308	122.364	5	6.505	3.473	1	0.874	0.001
12	WW	5	160	155.022	142.906	175.768	94.536	89.316	109.855	5	12.917	8.333	1	0.438	0.437
16	WW	5	160	160.354	137.746	184.504	100.868	86.091	115.315	5	18.572	11.582	1	0.942	0.968
20	WW	40	160	164.472	108.700	294.866	101.963	94.536	106.822	38	28.881	17.560	1	0.000	0.333

Table A-116: M8PFOA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	142.256	132.030	158.020	87.875	82.519	98.763	5	10.192	7.164	1	0.650	0.018
4	GW	5	160	164.362	146.962	176.852	101.773	91.851	110.533	5	11.624	7.072	1	0.631	0.449
5	GW	5	160	171.096	165.560	182.100	104.613	103.475	113.813	5	7.010	4.097	1	0.164	0.024
6	GW	5	160	156.400	151.000	166.000	96.875	94.375	103.750	5	5.814	3.717	1	0.330	0.238
10	GW	5	160	162.505	152.343	167.717	104.104	95.214	104.823	5	6.773	4.168	1	0.118	0.455
11	GW	5	160	174.478	167.055	188.769	108.059	104.410	117.981	5	8.342	4.781	1	0.091	0.018
12	GW	5	160	154.933	140.632	166.128	98.306	87.895	103.830	5	9.493	6.127	1	0.838	0.299
16	GW	5	160	148.735	115.559	178.739	100.558	72.224	111.712	5	26.482	17.805	1	0.455	0.395
20	GW	40	160	159.346	115.559	188.769	101.237	98.125	104.104	40	15.267	9.581	1	0.129	0.788
2	RW	5	160	152.740	140.390	158.870	97.281	87.744	99.294	5	7.444	4.873	1	0.190	0.095
4	RW	5	160	171.425	151.723	186.405	106.173	94.827	116.503	5	13.438	7.839	1	0.764	0.130
5	RW	5	160	164.056	158.960	168.140	103.488	99.350	105.088	5	3.949	2.407	1	0.447	0.083
6	RW	5	160	152.800	149.000	166.000	93.750	93.125	103.750	5	7.396	4.840	1	0.001	0.095
10	RW	5	160	168.224	159.438	174.414	106.648	99.649	109.009	5	5.787	3.440	1	0.601	0.034
11	RW	5	160	174.242	166.611	185.354	108.014	104.132	115.846	5	7.288	4.183	1	0.748	0.012
12	RW	5	160	152.416	134.174	159.402	97.428	83.859	99.626	5	10.320	6.771	1	0.009	0.176
16	RW	5	160	158.957	135.295	180.170	100.128	84.560	112.606	5	18.721	11.777	1	0.763	0.907
20	RW	40	160	161.857	134.174	186.405	100.333	98.333	104.961	40	12.572	7.767	1	0.848	0.356

Table A-116 (continued): M8PFOA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	146.678	135.800	166.550	89.494	84.875	104.094	5	12.456	8.492	1	0.353	0.075
4	SW	5	160	168.360	147.251	181.512	109.797	92.032	113.445	5	14.022	8.328	1	0.344	0.253
5	SW	5	160	172.796	160.140	180.740	107.175	100.088	112.963	5	8.468	4.900	1	0.340	0.028
6	SW	5	160	162.000	153.000	169.000	101.875	95.625	105.625	5	5.831	3.599	1	0.727	0.486
10	SW	5	160	162.343	158.302	170.559	100.176	98.939	106.599	5	5.032	3.099	1	0.194	0.356
11	SW	5	160	173.898	167.467	180.792	109.263	104.667	112.995	5	5.954	3.424	1	0.409	0.006
12	SW	5	160	154.535	131.632	171.270	98.559	82.270	107.044	5	15.295	9.897	1	0.834	0.469
16	SW	5	160	152.428	140.827	162.706	98.029	88.017	101.691	5	9.678	6.349	1	0.295	0.155
20	SW	40	160	161.630	131.632	181.512	101.783	98.939	105.093	40	13.187	8.159	1	0.152	0.439
2	WW	5	160	145.476	131.810	164.230	90.950	82.381	102.644	5	13.029	8.956	1	0.738	0.067
4	WW	5	160	202.471	158.436	319.400	106.176	99.023	199.625	4	67.577	33.376	1	0.026	0.233
5	WW	5	160	173.916	164.140	181.160	108.800	102.588	113.225	5	6.449	3.708	1	0.827	0.008
6	WW	5	160	158.600	150.000	170.000	98.750	93.750	106.250	5	8.933	5.632	1	0.389	0.744
10	WW	5	160	160.566	151.100	170.056	99.869	94.438	106.285	5	8.523	5.308	1	0.414	0.889
11	WW	5	160	169.899	164.392	176.365	104.826	102.745	110.228	5	5.424	3.192	1	0.266	0.015
12	WW	5	160	156.842	143.604	173.874	98.535	89.753	108.671	5	11.571	7.377	1	0.845	0.575
16	WW	5	160	149.636	137.384	168.824	93.477	85.865	105.515	5	11.895	7.949	1	0.411	0.123
20	WW	40	160	164.676	131.810	319.400	102.094	95.953	105.225	39	28.732	17.448	1	0.000	0.310

Table A-117: M4PFHpA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	138.840	120.940	147.210	89.881	75.588	92.006	5	10.820	7.793	1	0.134	0.012
4	GW	5	160	163.207	150.814	172.945	100.070	94.259	108.091	5	9.432	5.779	1	0.353	0.489
5	GW	5	160	164.584	156.200	172.820	101.438	97.625	108.013	5	7.347	4.464	1	0.378	0.235
6	GW	5	160	153.000	144.000	160.000	96.250	90.000	100.000	5	5.831	3.811	1	0.727	0.055
10	GW	5	160	166.678	154.194	173.895	106.677	96.372	108.684	5	8.165	4.899	1	0.301	0.141
11	GW	5	160	161.042	152.432	169.153	99.770	95.270	105.721	5	6.387	3.966	1	0.911	0.734
12	GW	5	160	149.566	143.794	156.868	92.043	89.871	98.043	5	5.604	3.747	1	0.438	0.014
16	GW	5	160	145.930	122.660	161.336	94.464	76.663	100.835	5	14.912	10.218	1	0.595	0.103
20	GW	40	160	155.356	120.940	173.895	97.250	95.000	100.000	40	12.569	8.090	1	0.039	0.025
2	RW	5	160	152.894	141.630	160.750	99.338	88.519	100.469	5	9.948	6.507	1	0.024	0.185
4	RW	5	160	167.960	143.677	188.553	108.132	89.798	117.846	5	17.173	10.224	1	0.886	0.359
5	RW	5	160	168.628	162.960	174.900	105.400	101.850	109.313	5	4.806	2.850	1	0.905	0.016
6	RW	5	160	153.400	148.000	164.000	95.625	92.500	102.500	5	6.348	4.138	1	0.151	0.081
10	RW	5	160	172.792	168.411	176.050	107.661	105.257	110.031	5	2.995	1.733	1	0.637	0.001
11	RW	5	160	165.325	160.632	170.168	103.686	100.395	106.355	5	4.165	2.519	1	0.525	0.046
12	RW	5	160	147.378	142.736	153.436	92.166	89.210	95.898	5	4.051	2.749	1	0.853	0.002
16	RW	5	160	146.857	117.622	166.473	97.932	73.513	104.046	5	20.518	13.972	1	0.386	0.225
20	RW	40	160	159.404	117.622	188.553	100.459	95.898	104.046	40	13.821	8.670	1	0.229	0.787

Table A-117 (continued): M4PFHpA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	142.028	134.570	150.570	88.500	84.106	94.106	5	6.087	4.286	1	0.989	0.003
4	SW	5	160	169.099	145.222	181.681	107.509	90.764	113.550	5	13.960	8.255	1	0.102	0.219
5	SW	5	160	168.380	156.120	193.020	102.888	97.575	120.638	5	14.513	8.619	1	0.149	0.266
6	SW	5	160	157.800	151.000	162.000	99.375	94.375	101.250	5	4.438	2.813	1	0.535	0.330
10	SW	5	160	166.379	158.394	179.044	102.039	98.996	111.903	5	9.053	5.441	1	0.322	0.190
11	SW	5	160	165.266	161.113	167.510	103.782	100.696	104.694	5	2.688	1.626	1	0.309	0.012
12	SW	5	160	151.422	143.640	158.632	95.970	89.775	99.145	5	7.095	4.685	1	0.192	0.054
16	SW	5	160	144.115	130.185	158.161	89.748	81.366	98.851	5	11.101	7.703	1	0.957	0.033
20	SW	40	160	158.061	130.185	193.020	99.194	95.970	102.039	40	13.517	8.552	1	0.932	0.370
2	WW	5	160	140.416	131.100	148.720	87.663	81.938	92.950	5	7.049	5.020	1	0.915	0.003
4	WW	5	160	202.222	147.105	331.376	108.688	91.941	207.110	4	74.354	36.769	1	0.045	0.273
5	WW	5	160	166.920	159.640	173.240	104.688	99.775	108.275	5	5.667	3.395	1	0.755	0.052
6	WW	5	160	159.000	147.000	166.000	100.000	91.875	103.750	5	7.649	4.810	1	0.443	0.785
10	WW	5	160	162.010	142.565	178.481	101.836	89.103	111.550	5	14.227	8.781	1	0.929	0.768
11	WW	5	160	169.712	163.253	177.395	106.124	102.033	110.872	5	5.875	3.462	1	0.746	0.021
12	WW	5	160	151.000	138.070	161.886	93.564	86.294	101.179	5	8.823	5.843	1	0.812	0.085
16	WW	5	160	127.011	95.540	169.267	77.042	59.712	105.792	4	27.283	21.481	1	0.781	0.054
20	WW	40	160	159.786	95.540	331.376	100.589	93.523	103.125	38	33.712	21.098	1	0.000	0.968

Table A-118: M5PFHxA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	136.446	130.630	143.970	85.675	81.644	89.981	5	5.277	3.868	1	0.763	0.001
4	GW	5	160	174.865	150.699	192.084	115.610	94.187	120.052	5	20.049	11.465	1	0.091	0.173
5	GW	5	160	161.872	135.660	187.220	102.013	84.788	117.013	5	25.321	15.643	1	0.150	0.877
6	GW	5	160	156.800	150.000	162.000	98.125	93.750	101.250	5	4.658	2.971	1	0.884	0.199
10	GW	5	160	163.284	157.138	171.387	100.932	98.211	107.117	5	5.687	3.483	1	0.751	0.266
11	GW	5	160	158.613	155.040	167.683	97.681	96.900	104.802	5	5.198	3.277	1	0.025	0.583
12	GW	5	160	152.305	141.982	161.298	95.228	88.739	100.811	5	7.309	4.799	1	0.986	0.078
16	GW	5	160	148.391	115.910	168.535	96.014	72.444	105.334	5	19.606	13.212	1	0.282	0.256
20	GW	40	160	156.572	115.910	192.084	97.553	95.228	100.000	40	16.695	10.663	1	0.135	0.202
2	RW	5	160	156.252	137.480	164.060	100.606	85.925	102.538	5	11.091	7.098	1	0.070	0.492
4	RW	5	160	180.457	161.395	191.379	114.268	100.872	119.612	5	12.552	6.955	1	0.383	0.022
5	RW	5	160	154.580	132.780	178.880	97.263	82.988	111.800	5	20.695	13.388	1	0.412	0.590
6	RW	5	160	147.400	143.000	153.000	92.500	89.375	95.625	5	4.037	2.739	1	0.708	0.002
10	RW	5	160	170.114	167.255	173.249	106.401	104.534	108.281	5	2.428	1.427	1	0.877	0.001
11	RW	5	160	160.916	157.229	167.551	99.286	98.268	104.720	5	4.158	2.584	1	0.267	0.648
12	RW	5	160	157.312	144.730	163.962	99.904	90.456	102.476	5	7.429	4.722	1	0.166	0.464
16	RW	5	160	140.253	119.501	158.729	90.282	74.688	99.206	5	17.562	12.521	1	0.389	0.066
20	RW	40	160	158.411	119.501	191.379	99.595	96.925	102.476	40	15.974	10.084	1	0.694	0.533

Table A-118 (continued): M5PFHxA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	128.524	117.900	143.170	78.763	73.688	89.481	5	10.190	7.928	1	0.734	0.002
4	SW	5	160	173.465	148.071	190.985	115.213	92.545	119.366	5	18.751	10.810	1	0.222	0.184
5	SW	5	160	166.744	146.120	186.900	105.000	91.325	116.813	5	15.177	9.102	1	0.997	0.377
6	SW	5	160	155.200	145.000	159.000	98.750	90.625	99.375	5	5.933	3.823	1	0.029	0.145
10	SW	5	160	160.098	153.066	175.069	99.274	95.666	109.418	5	8.754	5.468	1	0.080	0.981
11	SW	5	160	159.566	154.222	163.442	101.606	96.389	102.151	5	4.584	2.873	1	0.039	0.843
12	SW	5	160	153.822	144.674	161.614	96.605	90.421	101.009	5	6.180	4.018	1	0.903	0.089
16	SW	5	160	140.237	118.851	156.701	87.965	74.282	97.938	5	16.035	11.434	1	0.614	0.051
20	SW	40	160	154.707	117.900	190.985	97.212	95.666	99.375	40	17.308	11.187	1	0.073	0.060
2	WW	5	160	129.118	110.860	153.120	82.488	69.288	95.700	4	17.493	13.548	1	0.578	0.017
4	WW	5	160	190.644	146.627	294.574	104.383	91.642	184.109	4	60.813	31.899	1	0.069	0.323
5	WW	5	160	168.360	150.200	182.020	107.863	93.875	113.763	5	13.556	8.052	1	0.521	0.240
6	WW	5	160	157.000	146.000	166.000	97.500	91.250	103.750	5	8.944	5.697	1	0.377	0.495
10	WW	5	160	161.835	151.878	170.450	102.861	94.924	106.531	5	8.459	5.227	1	0.290	0.653
11	WW	5	160	159.978	156.167	162.230	100.085	97.604	101.394	5	2.391	1.494	1	0.425	0.985
12	WW	5	160	156.959	146.728	163.432	99.608	91.705	102.145	5	6.434	4.099	1	0.488	0.350
16	WW	5	160	123.025	84.434	181.491	67.356	52.771	113.432	2	37.363	30.370	1	0.519	0.091
20	WW	40	160	155.865	84.434	294.574	98.327	94.924	101.394	35	31.705	20.341	1	0.000	0.414

Table A-119: M5PFPeA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	150.020	141.080	155.330	94.863	88.175	97.081	5	5.373	3.582	1	0.260	0.014
4	GW	5	160	173.585	165.742	185.194	107.836	103.589	115.746	5	7.679	4.424	1	0.713	0.017
5	GW	5	160	167.136	158.480	178.880	102.663	99.050	111.800	5	8.859	5.300	1	0.433	0.146
6	GW	5	160	155.200	153.000	160.000	96.250	95.625	100.000	5	2.775	1.788	1	0.053	0.018
10	GW	5	160	160.193	153.458	165.838	100.229	95.911	103.649	5	4.984	3.111	1	0.876	0.935
11	GW	5	160	151.049	145.452	159.297	93.859	90.908	99.561	5	5.315	3.519	1	0.722	0.020
12	GW	5	160	153.152	141.152	157.728	97.269	88.220	98.580	5	6.838	4.465	1	0.019	0.089
16	GW	5	160	160.738	153.695	165.519	102.746	96.060	103.449	5	5.954	3.704	1	0.038	0.795
20	GW	40	160	158.884	141.080	185.194	98.233	96.250	100.229	40	9.629	6.060	1	0.167	0.468
2	RW	5	160	169.734	165.810	175.030	106.025	103.631	109.394	5	3.468	2.043	1	0.809	0.003
4	RW	5	160	171.361	166.716	175.742	107.228	104.198	109.839	5	3.932	2.295	1	0.564	0.003
5	RW	5	160	171.584	165.460	178.580	108.263	103.413	111.613	5	5.549	3.234	1	0.500	0.010
6	RW	5	160	143.600	142.000	146.000	89.375	88.750	91.250	5	1.817	1.265	1	0.254	0.000
10	RW	5	160	154.949	122.653	168.489	101.468	76.658	105.306	5	18.775	12.117	1	0.057	0.580
11	RW	5	160	147.696	140.984	151.271	92.878	88.115	94.544	5	4.147	2.808	1	0.310	0.003
12	RW	5	160	156.269	146.982	165.148	98.178	91.864	103.218	5	6.481	4.147	1	0.678	0.267
16	RW	5	160	155.240	148.281	158.586	98.128	92.675	99.117	5	4.335	2.792	1	0.177	0.070
20	RW	40	160	158.804	122.653	178.580	99.083	96.156	104.000	40	12.520	7.884	1	0.090	0.549

Table A-119 (continued): M5PFPeA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	140.314	133.590	158.970	85.700	83.494	99.356	5	10.594	7.551	1	0.011	0.014
4	SW	5	160	171.296	160.646	179.788	107.697	100.404	112.368	5	6.962	4.064	1	0.769	0.022
5	SW	5	160	165.524	158.740	175.140	104.075	99.213	109.463	5	6.636	4.009	1	0.548	0.136
6	SW	5	160	158.800	151.000	163.000	99.375	94.375	101.875	5	4.919	3.098	1	0.271	0.614
10	SW	5	160	155.514	149.651	161.893	97.073	93.532	101.183	5	4.552	2.927	1	0.996	0.092
11	SW	5	160	147.244	137.692	158.171	90.995	86.058	98.857	5	8.816	5.988	1	0.579	0.032
12	SW	5	160	153.757	142.916	158.700	98.196	89.323	99.188	5	6.547	4.258	1	0.105	0.100
16	SW	5	160	152.007	147.690	157.416	94.127	92.306	98.385	5	4.651	3.059	1	0.168	0.018
20	SW	40	160	155.557	133.590	179.788	98.356	95.180	99.356	40	11.257	7.236	1	0.398	0.017
2	WW	5	160	141.614	133.550	153.000	86.138	83.469	95.625	5	8.819	6.228	1	0.234	0.010
4	WW	5	160	203.603	166.881	326.932	106.381	104.301	204.333	4	69.445	34.108	1	0.002	0.233
5	WW	5	160	165.888	156.720	176.580	101.438	97.950	110.363	5	9.540	5.751	1	0.141	0.240
6	WW	5	160	153.600	140.000	167.000	96.250	87.500	104.375	5	9.711	6.322	1	0.891	0.215
10	WW	5	160	154.261	143.907	163.372	98.680	89.942	102.108	5	9.331	6.049	1	0.140	0.241
11	WW	5	160	143.009	139.383	146.069	89.127	87.114	91.293	5	2.492	1.743	1	0.819	0.000
12	WW	5	160	156.846	149.040	162.468	98.516	93.150	101.543	5	4.853	3.094	1	0.234	0.220
16	WW	5	160	166.206	155.867	176.820	101.998	97.417	110.513	5	9.193	5.531	1	0.406	0.206
20	WW	40	160	160.628	133.550	326.932	98.437	94.375	101.438	39	29.767	18.532	1	0.000	0.894

Table A-120: MPFBA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	143.024	139.030	146.010	90.781	86.894	91.256	5	3.526	2.465	1	0.034	0.000
4	GW	5	160	164.731	152.821	179.521	105.066	95.513	112.201	5	10.994	6.674	1	0.490	0.390
5	GW	5	160	164.104	157.140	171.380	103.588	98.213	107.113	5	6.178	3.765	1	0.476	0.212
6	GW	5	160	143.000	142.000	144.000	89.375	88.750	90.000	5	1.000	0.699	1	0.119	0.000
10	GW	5	160	154.884	152.122	159.837	95.860	95.076	99.898	5	3.296	2.128	1	0.256	0.026
11	GW	5	160	156.533	153.886	160.638	98.009	96.179	100.399	5	2.662	1.700	1	0.445	0.044
12	GW	5	160	149.111	134.520	156.772	93.794	84.075	97.983	5	8.789	5.894	1	0.214	0.050
16	GW	5	160	166.115	147.431	176.465	106.143	92.144	110.291	5	11.099	6.682	1	0.199	0.285
20	GW	40	160	155.188	134.520	179.521	96.651	93.794	98.213	40	10.966	7.066	1	0.474	0.008
2	RW	5	160	160.038	156.420	163.830	99.994	97.763	102.394	5	2.649	1.655	1	0.799	0.976
4	RW	5	160	164.664	151.720	171.223	103.885	94.825	107.014	5	7.565	4.594	1	0.108	0.240
5	RW	5	160	164.208	160.420	167.600	102.088	100.263	104.750	5	2.852	1.737	1	0.702	0.030
6	RW	5	160	142.400	124.000	148.000	91.875	77.500	92.500	5	10.310	7.240	1	0.001	0.019
10	RW	5	160	132.408	103.847	145.523	87.140	64.904	90.952	4	16.885	12.752	1	0.109	0.022
11	RW	5	160	160.759	151.455	173.797	99.766	94.659	108.623	5	8.312	5.171	1	0.716	0.848
12	RW	5	160	144.915	131.100	168.562	86.581	81.938	105.351	5	14.621	10.089	1	0.332	0.082
16	RW	5	160	158.744	102.403	174.261	107.375	64.002	108.913	4	31.525	19.859	1	0.000	0.933
20	RW	40	160	153.517	102.403	174.261	99.705	92.500	102.088	38	17.528	11.418	1	0.001	0.025

Table A-120 (continued): MPFBA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	136.362	133.720	139.730	84.763	83.575	87.331	5	2.449	1.796	1	0.716	0.000
4	SW	5	160	164.795	149.561	177.769	103.492	93.475	111.106	5	11.053	6.707	1	0.953	0.387
5	SW	5	160	168.144	153.100	173.240	107.800	95.688	108.275	5	8.539	5.078	1	0.007	0.100
6	SW	5	160	151.200	146.000	158.000	94.375	91.250	98.750	5	4.658	3.081	1	0.884	0.013
10	SW	5	160	132.680	114.395	147.447	86.305	71.497	92.154	5	14.707	11.085	1	0.341	0.014
11	SW	5	160	154.238	142.542	159.397	99.241	89.089	99.623	5	7.316	4.743	1	0.068	0.153
12	SW	5	160	147.804	133.286	156.482	94.203	83.304	97.801	5	8.898	6.020	1	0.395	0.037
16	SW	5	160	151.101	121.340	168.381	100.299	75.838	105.238	5	19.877	13.155	1	0.292	0.373
20	SW	40	160	150.791	114.395	177.769	94.528	91.250	99.241	40	15.309	10.152	1	0.525	0.000
2	WW	5	160	134.908	132.420	138.850	84.338	82.763	86.781	5	2.453	1.818	1	0.407	0.000
4	WW	5	160	191.417	154.279	298.932	99.305	96.425	186.833	4	61.516	32.137	1	0.010	0.317
5	WW	5	160	171.956	163.960	182.200	104.113	102.475	113.875	5	9.092	5.287	1	0.048	0.042
6	WW	5	160	153.200	139.000	167.000	96.250	86.875	104.375	5	11.077	7.230	1	0.960	0.242
10	WW	5	160	148.718	139.637	159.257	94.909	87.273	99.536	5	8.311	5.588	1	0.389	0.039
11	WW	5	160	159.933	152.801	167.922	101.261	95.501	104.951	5	6.405	4.005	1	0.475	0.983
12	WW	5	160	150.072	139.312	160.554	93.415	87.070	100.346	5	7.932	5.285	1	0.996	0.049
16	WW	5	160	155.081	115.931	177.605	101.387	72.457	111.003	5	26.070	16.810	1	0.365	0.695
20	WW	40	160	158.161	115.931	298.932	96.359	93.415	101.261	39	27.520	17.400	1	0.000	0.675

Table A-121: M8PFOS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	153.12	145.220	136.900	154.120	90.669	85.563	96.325	5	7.484	5.154	1	0.575	0.078
4	GW	5	153.12	164.423	145.952	176.026	105.618	91.220	110.016	5	12.250	7.451	1	0.490	0.108
5	GW	5	153.12	166.608	154.160	176.720	105.625	96.350	110.450	5	8.452	5.073	1	0.857	0.023
6	GW	5	153.12	154.200	152.000	156.000	96.250	95.000	97.500	5	1.789	1.160	1	0.377	0.248
10	GW	5	153.12	157.332	151.987	161.080	98.958	94.992	100.675	5	3.427	2.178	1	0.681	0.051
11	GW	5	153.12	186.953	176.164	200.382	115.711	110.102	125.239	5	8.728	4.668	1	0.574	0.001
12	GW	5	153.12	146.142	132.204	153.706	92.568	82.628	96.066	5	8.155	5.580	1	0.087	0.128
16	GW	5	153.12	165.325	147.490	182.062	100.832	92.181	113.789	5	13.717	8.297	1	0.769	0.118
20	GW	40	153.12	160.775	132.204	200.382	98.344	96.066	102.000	40	15.035	9.351	1	0.218	0.003
2	RW	5	153.12	149.320	120.210	172.340	95.825	75.131	107.713	5	20.825	13.947	1	0.848	0.704
4	RW	5	153.12	150.227	132.534	174.701	94.483	82.834	109.188	5	18.028	12.001	1	0.494	0.738
5	RW	5	153.12	169.652	155.020	183.920	105.563	96.888	114.950	5	12.426	7.325	1	0.625	0.041
6	RW	5	153.12	151.400	144.000	166.000	91.875	90.000	103.750	5	8.989	5.937	1	0.188	0.691
10	RW	5	153.12	161.802	159.141	163.791	100.952	99.463	102.369	5	1.928	1.192	1	0.569	0.001
11	RW	5	153.12	177.761	170.975	188.724	108.286	106.859	117.952	5	7.821	4.400	1	0.186	0.002
12	RW	5	153.12	146.388	136.772	158.290	90.140	85.483	98.931	5	7.955	5.434	1	0.812	0.131
16	RW	5	153.12	168.320	152.512	178.553	104.748	95.320	111.596	5	10.341	6.144	1	0.500	0.030
20	RW	40	153.12	159.359	120.210	188.724	100.384	95.825	103.959	40	15.730	9.871	1	0.896	0.016

Table A-121 (continued): M8PFOS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	153.12	141.716	121.660	155.430	93.875	76.038	97.144	5	14.557	10.272	1	0.243	0.155
4	SW	5	153.12	159.495	142.085	170.871	105.227	88.803	106.794	5	13.816	8.662	1	0.063	0.360
5	SW	5	153.12	176.700	170.400	183.140	109.688	106.500	114.463	5	6.166	3.490	1	0.164	0.001
6	SW	5	153.12	149.600	141.000	156.000	95.000	88.125	97.500	5	6.025	4.027	1	0.639	0.261
10	SW	5	153.12	153.273	150.408	158.448	95.100	94.005	99.030	5	3.353	2.188	1	0.335	0.924
11	SW	5	153.12	179.231	165.702	195.505	109.861	103.564	122.191	5	11.367	6.342	1	0.870	0.007
12	SW	5	153.12	146.978	141.320	151.030	93.330	88.325	94.394	5	4.755	3.235	1	0.081	0.045
16	SW	5	153.12	157.455	148.025	164.444	97.748	92.516	102.777	5	6.541	4.154	1	0.638	0.212
20	SW	40	153.12	158.056	121.660	195.505	96.909	94.169	102.777	40	15.313	9.688	1	0.417	0.048
2	WW	5	153.12	140.438	120.830	184.100	80.588	75.519	115.063	5	26.183	18.644	1	0.111	0.340
4	WW	5	153.12	188.936	128.954	330.660	106.437	80.596	206.663	4	81.392	43.079	1	0.034	0.381
5	WW	5	153.12	173.952	165.480	188.920	107.025	103.425	118.075	5	8.850	5.088	1	0.150	0.006
6	WW	5	153.12	150.400	138.000	159.000	95.625	86.250	99.375	5	8.764	5.827	1	0.560	0.526
10	WW	5	153.12	155.677	146.170	165.400	98.767	91.356	103.375	5	7.693	4.942	1	0.758	0.499
11	WW	5	153.12	181.499	171.025	191.199	114.525	106.891	119.500	5	9.063	4.993	1	0.394	0.002
12	WW	5	153.12	148.917	141.312	158.486	94.078	88.320	99.054	5	7.419	4.982	1	0.425	0.274
16	WW	5	153.12	162.748	146.082	173.111	105.389	91.301	108.194	5	11.875	7.296	1	0.240	0.144
20	WW	40	153.12	162.821	120.830	330.660	99.214	94.078	106.775	39	32.614	20.031	1	0.000	0.067

Table A-122: M3PFHxS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	151.2	137.108	126.460	150.050	84.388	79.038	93.781	5	9.443	6.887	1	0.850	0.029
4	GW	5	151.2	147.995	133.682	159.154	93.884	83.551	99.471	5	9.255	6.254	1	0.623	0.482
5	GW	5	151.2	155.784	151.500	161.020	96.463	94.688	100.638	5	3.765	2.417	1	0.730	0.053
6	GW	5	151.2	153.600	151.000	156.000	95.625	94.375	97.500	5	1.949	1.269	1	0.758	0.051
10	GW	5	151.2	158.878	148.944	168.275	99.260	93.090	105.172	5	7.155	4.503	1	0.996	0.074
11	GW	5	151.2	160.069	147.924	168.136	101.500	92.452	105.085	5	8.747	5.464	1	0.417	0.086
12	GW	5	151.2	145.827	138.020	150.024	92.546	86.263	93.765	5	4.993	3.424	1	0.262	0.074
16	GW	5	151.2	154.478	139.382	163.648	100.060	87.113	102.280	5	10.594	6.858	1	0.223	0.527
20	GW	40	151.2	151.717	126.460	168.275	95.156	93.290	97.500	40	9.980	6.578	1	0.254	0.745
2	RW	5	151.2	147.844	130.530	162.100	94.169	81.581	101.313	5	12.345	8.350	1	0.903	0.576
4	RW	5	151.2	156.823	147.324	167.650	96.643	92.077	104.781	5	7.841	5.000	1	0.902	0.184
5	RW	5	151.2	156.552	150.400	160.380	98.125	94.000	100.238	5	3.736	2.387	1	0.337	0.033
6	RW	5	151.2	146.800	141.000	159.000	89.375	88.125	99.375	5	7.294	4.969	1	0.107	0.249
10	RW	5	151.2	161.648	154.758	165.998	101.304	96.724	103.749	5	4.354	2.693	1	0.564	0.006
11	RW	5	151.2	163.317	153.198	173.186	101.361	95.749	108.241	5	8.221	5.034	1	0.804	0.030
12	RW	5	151.2	147.722	141.952	156.978	91.781	88.720	98.111	5	6.099	4.129	1	0.546	0.271
16	RW	5	151.2	155.498	145.504	166.209	97.974	90.940	103.880	5	7.593	4.883	1	0.884	0.274
20	RW	40	151.2	154.525	130.530	173.186	97.388	94.169	98.950	40	9.191	5.948	1	0.840	0.028

Table A-122 (continued): M3PFHxS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	151.2	132.520	123.400	141.130	81.869	77.125	88.206	5	6.668	5.032	1	0.894	0.003
4	SW	5	151.2	158.687	125.366	176.566	102.737	78.354	110.354	5	19.444	12.253	1	0.067	0.438
5	SW	5	151.2	157.804	152.220	165.160	98.288	95.138	103.225	5	4.648	2.945	1	0.284	0.034
6	SW	5	151.2	146.400	138.000	150.000	92.500	86.250	93.750	5	4.980	3.402	1	0.090	0.097
10	SW	5	151.2	155.203	147.293	158.097	98.235	92.058	98.811	5	4.545	2.929	1	0.021	0.120
11	SW	5	151.2	167.743	151.861	193.058	103.334	94.913	120.661	5	15.596	9.298	1	0.477	0.077
12	SW	5	151.2	145.787	143.384	148.016	91.350	89.615	92.510	5	1.955	1.341	1	0.674	0.003
16	SW	5	151.2	153.762	145.134	163.742	97.358	90.709	102.339	5	7.351	4.781	1	0.719	0.479
20	SW	40	151.2	152.238	123.400	193.058	95.025	92.058	98.288	40	13.498	8.866	1	0.324	0.629
2	WW	5	151.2	131.808	114.650	141.760	84.138	71.656	88.600	5	10.274	7.794	1	0.265	0.013
4	WW	5	151.2	187.177	150.127	309.980	95.374	93.830	193.738	4	69.224	36.983	1	0.002	0.310
5	WW	5	151.2	157.844	145.900	165.120	99.188	91.188	103.200	5	7.504	4.754	1	0.503	0.119
6	WW	5	151.2	150.400	139.000	159.000	95.000	86.875	99.375	5	8.355	5.555	1	0.657	0.841
10	WW	5	151.2	156.347	146.837	164.125	99.795	91.773	102.578	5	7.186	4.596	1	0.489	0.184
11	WW	5	151.2	170.075	155.785	180.600	106.453	97.365	112.875	5	9.801	5.762	1	0.806	0.013
12	WW	5	151.2	147.775	143.728	152.728	92.526	89.830	95.455	5	3.767	2.549	1	0.672	0.112
16	WW	5	151.2	157.072	145.623	177.813	93.172	91.014	111.133	5	14.142	9.004	1	0.160	0.406
20	WW	40	151.2	157.312	114.650	309.980	95.187	92.526	99.375	39	28.088	17.855	1	0.000	0.177

Table A-123: M3PFBS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	148.8	125.792	112.240	135.720	78.894	70.150	84.825	5	8.533	6.784	1	0.460	0.004
4	GW	5	148.8	155.818	143.252	178.339	91.473	89.532	111.462	5	15.535	9.970	1	0.135	0.370
5	GW	5	148.8	152.804	145.300	161.240	96.788	90.813	100.775	5	7.095	4.643	1	0.333	0.276
6	GW	5	148.8	146.000	139.000	150.000	92.500	86.875	93.750	5	4.528	3.101	1	0.332	0.239
10	GW	5	148.8	154.289	151.810	155.306	96.741	94.881	97.066	5	1.411	0.914	1	0.020	0.001
11	GW	5	148.8	144.496	136.527	150.416	90.928	85.330	94.010	5	5.033	3.483	1	0.475	0.128
12	GW	5	148.8	144.040	138.794	150.262	90.598	86.746	93.914	5	4.504	3.127	1	0.796	0.077
16	GW	5	148.8	143.578	105.382	162.257	93.192	65.864	101.411	4	22.834	15.904	1	0.178	0.636
20	GW	40	148.8	145.852	105.382	178.339	91.065	90.153	93.914	39	13.372	9.168	1	0.023	0.171
2	RW	5	148.8	134.436	125.840	151.550	81.456	78.650	94.719	5	10.140	7.542	1	0.152	0.034
4	RW	5	148.8	165.120	140.064	178.807	106.557	87.540	111.754	5	15.830	9.587	1	0.336	0.082
5	RW	5	148.8	155.536	143.220	172.500	96.725	89.513	107.813	5	10.690	6.873	1	0.534	0.232
6	RW	5	148.8	141.400	139.000	144.000	88.750	86.875	90.000	5	2.302	1.628	1	0.257	0.002
10	RW	5	148.8	144.937	120.930	162.615	97.810	75.581	101.634	5	19.996	13.796	1	0.084	0.688
11	RW	5	148.8	144.544	136.563	149.878	91.508	85.352	93.674	5	5.716	3.955	1	0.425	0.171
12	RW	5	148.8	146.055	140.278	155.376	90.625	87.674	97.110	5	5.881	4.027	1	0.556	0.356
16	RW	5	148.8	132.647	109.896	147.637	88.303	68.685	92.273	4	16.754	12.630	1	0.224	0.097
20	RW	40	148.8	145.584	109.896	178.807	90.177	87.978	93.674	39	15.056	10.342	1	0.691	0.185

Table A-123 (continued): M3PFBS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	148.8	115.940	110.310	122.040	72.844	68.944	76.275	3	5.107	4.404	1	0.534	0.000
4	SW	5	148.8	156.862	144.648	169.885	95.060	90.405	106.178	5	10.825	6.901	1	0.393	0.171
5	SW	5	148.8	153.440	143.000	163.460	94.738	89.375	102.163	5	9.371	6.107	1	0.307	0.330
6	SW	5	148.8	140.800	133.000	147.000	87.500	83.125	91.875	5	5.495	3.903	1	0.788	0.031
10	SW	5	148.8	122.255	0.000	156.485	95.445	0.000	97.803	4	68.454	55.993	0	0.001	0.435
11	SW	5	148.8	144.076	137.012	147.750	90.656	85.633	92.344	5	4.381	3.041	1	0.281	0.073
12	SW	5	148.8	143.740	139.994	147.896	89.549	87.496	92.435	5	3.144	2.187	1	0.924	0.023
16	SW	5	148.8	132.370	117.443	141.971	86.868	73.402	88.732	5	11.559	8.733	1	0.099	0.034
20	SW	40	148.8	138.685	0.000	169.885	89.977	87.500	91.875	37	26.608	19.186	1	0.000	0.021
2	WW	5	148.8	117.902	106.570	130.090	70.088	66.606	81.306	3	10.859	9.210	1	0.143	0.003
4	WW	5	148.8	180.787	138.096	288.526	96.958	86.310	180.329	4	62.242	34.428	1	0.037	0.315
5	WW	5	148.8	159.172	150.320	171.560	98.875	93.950	107.225	5	7.768	4.880	1	0.532	0.041
6	WW	5	148.8	147.400	135.000	159.000	90.625	84.375	99.375	5	9.343	6.339	1	0.848	0.754
10	WW	5	148.8	148.966	138.146	156.726	95.466	86.341	97.954	5	8.457	5.677	1	0.219	0.967
11	WW	5	148.8	141.460	136.661	148.627	88.445	85.413	92.892	5	4.830	3.414	1	0.599	0.027
12	WW	5	148.8	146.305	140.540	151.572	91.384	87.838	94.733	5	4.000	2.734	1	0.918	0.236
16	WW	5	148.8	119.720	88.118	174.325	67.409	55.074	108.953	2	32.874	27.459	1	0.267	0.119
20	WW	40	148.8	145.214	88.118	288.526	90.313	86.341	94.733	34	30.288	20.857	1	0.000	0.458

Table A-124: M8FOSAI High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	142.462	135.920	148.880	96.183	91.344	100.054	5	4.770	3.348	1	0.970	0.001
4	GW	5	160	158.795	146.112	174.013	107.573	98.193	116.944	5	10.592	6.670	1	0.894	0.812
5	GW	5	160	184.152	153.160	206.400	126.048	102.930	138.710	4	19.595	10.641	1	0.635	0.051
6	GW	5	160	162.200	158.000	165.000	108.871	106.183	110.887	5	2.683	1.654	1	0.502	0.141
10	GW	5	160	163.607	152.420	170.667	111.072	102.433	114.696	5	7.755	4.740	1	0.446	0.357
11	GW	5	160	163.007	159.202	167.817	107.850	106.991	112.780	5	4.123	2.530	1	0.075	0.178
12	GW	5	160	152.670	146.174	161.538	101.190	98.235	108.560	5	5.805	3.802	1	0.675	0.048
16	GW	5	160	165.774	151.780	175.064	112.440	102.002	117.651	5	8.660	5.224	1	0.506	0.210
20	GW	40	160	161.583	135.920	206.400	108.205	103.974	110.935	39	14.123	8.740	1	0.066	0.482
2	RW	5	160	150.740	144.940	162.390	100.000	97.406	109.133	5	6.807	4.516	1	0.117	0.038
4	RW	5	160	152.821	136.721	165.165	106.314	91.882	110.998	5	11.514	7.534	1	0.545	0.236
5	RW	5	160	175.512	158.080	199.100	116.062	106.237	133.804	4	15.059	8.580	1	0.681	0.083
6	RW	5	160	159.400	154.000	169.000	106.183	103.495	113.575	5	6.309	3.958	1	0.355	0.842
10	RW	5	160	167.451	165.772	170.533	112.440	111.406	114.605	5	1.886	1.126	1	0.272	0.001
11	RW	5	160	159.793	152.259	166.153	108.597	102.325	111.662	5	5.746	3.596	1	0.673	0.940
12	RW	5	160	150.090	138.784	161.224	102.156	93.269	108.349	5	8.362	5.572	1	0.925	0.057
16	RW	5	160	164.403	152.436	173.171	111.429	102.443	116.379	5	8.058	4.901	1	0.842	0.289
20	RW	40	160	160.026	136.721	199.100	108.293	103.495	111.406	39	11.574	7.233	1	0.125	0.989

Table A-124 (continued): M8FOSAI High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	137.916	132.640	142.840	93.898	89.140	95.995	5	4.428	3.211	1	0.387	0.000
4	SW	5	160	156.349	150.867	163.051	104.618	101.389	109.577	5	4.560	2.916	1	0.946	0.148
5	SW	5	160	200.508	175.600	240.000	125.282	118.011	161.290	3	27.169	13.550	1	0.310	0.029
6	SW	5	160	154.400	146.000	161.000	104.839	98.118	108.199	5	5.941	3.848	1	0.827	0.103
10	SW	5	160	161.563	157.331	168.137	107.417	105.733	112.995	5	4.384	2.713	1	0.506	0.470
11	SW	5	160	159.415	148.553	166.429	109.185	99.834	111.847	5	6.989	4.384	1	0.482	0.861
12	SW	5	160	152.358	148.244	159.022	102.007	99.626	106.870	5	4.219	2.769	1	0.544	0.015
16	SW	5	160	160.581	151.033	171.261	108.022	101.501	115.095	5	9.096	5.665	1	0.410	0.893
20	SW	40	160	160.386	132.640	240.000	105.958	102.174	108.199	38	19.676	12.268	1	0.000	0.902
2	WW	5	160	140.902	133.590	148.390	93.360	89.778	99.724	5	5.845	4.149	1	0.770	0.002
4	WW	5	160	199.439	163.920	331.534	112.257	110.161	222.805	4	73.860	37.034	1	0.000	0.298
5	WW	5	160	174.352	164.880	184.200	117.769	110.806	123.790	5	7.533	4.321	1	0.966	0.013
6	WW	5	160	158.000	147.000	169.000	106.855	98.790	113.575	5	9.055	5.731	1	0.819	0.647
10	WW	5	160	162.286	147.213	174.592	112.108	98.933	117.333	5	13.171	8.116	1	0.146	0.718
11	WW	5	160	162.533	156.536	166.945	110.337	105.199	112.194	5	4.146	2.551	1	0.650	0.244
12	WW	5	160	152.204	149.758	155.478	101.359	100.644	104.488	5	2.506	1.647	1	0.248	0.002
16	WW	5	160	169.537	149.027	182.832	116.155	100.153	122.871	5	12.512	7.380	1	0.339	0.164
20	WW	40	160	164.907	133.590	331.534	110.276	103.672	112.257	39	29.713	18.018	1	0.000	0.303

Table A-125: M282FtS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	153.6	140.162	125.230	159.580	89.920	83.710	106.671	5	14.234	10.155	1	0.564	0.102
4	GW	5	153.6	150.578	131.485	167.418	100.936	87.891	111.910	5	13.013	8.642	1	0.892	0.631
5	GW	5	153.6	179.328	158.920	197.820	121.564	106.230	132.233	4	15.108	8.425	1	0.965	0.019
6	GW	5	153.6	168.600	167.000	172.000	112.299	111.631	114.973	5	2.074	1.230	1	0.171	0.000
10	GW	5	153.6	171.202	144.642	195.090	119.737	96.686	130.408	4	22.246	12.994	1	0.379	0.152
11	GW	5	153.6	187.224	174.291	211.240	122.554	116.505	141.203	4	14.174	7.571	1	0.174	0.006
12	GW	5	153.6	156.937	138.450	176.424	102.820	92.547	117.930	5	14.156	9.020	1	0.945	0.626
16	GW	5	153.6	165.750	152.065	173.542	112.116	101.648	116.004	5	8.089	4.880	1	0.149	0.028
20	GW	40	153.6	164.973	125.230	211.240	111.771	103.738	114.973	37	19.262	11.676	1	0.918	0.001
2	RW	5	153.6	137.768	125.260	152.460	89.011	83.730	101.912	5	12.761	9.263	1	0.194	0.050
4	RW	5	153.6	176.598	153.128	200.810	117.745	102.358	134.231	4	17.499	9.909	1	0.991	0.042
5	RW	5	153.6	169.016	139.760	188.540	121.711	93.422	126.029	5	22.354	13.226	1	0.134	0.198
6	RW	5	153.6	163.600	156.000	177.000	108.289	104.278	118.316	5	7.956	4.863	1	0.199	0.048
10	RW	5	153.6	189.756	166.298	211.233	128.247	111.161	141.198	3	20.024	10.553	1	0.450	0.016
11	RW	5	153.6	174.480	154.165	190.170	119.899	103.052	127.119	5	14.187	8.131	1	0.761	0.030
12	RW	5	153.6	159.622	150.622	169.074	106.120	100.683	113.017	5	9.207	5.768	1	0.119	0.217
16	RW	5	153.6	173.644	161.269	185.014	118.478	107.800	123.672	5	10.436	6.010	1	0.397	0.013
20	RW	40	153.6	168.061	125.260	211.233	112.139	106.952	118.478	37	19.897	11.839	1	0.906	0.000

Table A-125 (continued): M282FtS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	153.6	129.854	115.390	153.750	81.731	77.132	102.774	5	15.379	11.843	1	0.358	0.026
4	SW	5	153.6	168.464	151.460	189.544	111.505	101.243	126.701	5	15.596	9.258	1	0.795	0.100
5	SW	5	153.6	176.420	158.780	192.300	122.126	106.136	128.543	5	15.842	8.980	1	0.163	0.032
6	SW	5	153.6	181.152	154.760	212.120	115.521	103.449	141.791	3	23.059	12.729	1	0.724	0.056
10	SW	5	153.6	176.636	157.873	196.898	120.968	105.530	131.616	4	16.045	9.084	1	0.673	0.033
11	SW	5	153.6	179.060	175.380	183.586	118.111	117.233	122.718	5	3.938	2.199	1	0.075	0.000
12	SW	5	153.6	161.113	141.942	173.040	112.531	94.881	115.668	5	13.957	8.663	1	0.187	0.295
16	SW	5	153.6	161.067	141.912	181.211	107.939	94.861	121.130	5	16.674	10.352	1	0.693	0.373
20	SW	40	153.6	166.721	115.390	212.120	113.809	106.136	118.111	37	21.439	12.859	1	0.494	0.000
2	WW	5	153.6	182.528	142.500	212.610	126.791	95.254	142.119	4	26.227	14.369	1	0.781	0.069
4	WW	5	153.6	199.971	141.159	339.426	114.899	94.358	226.889	4	79.292	39.652	1	0.016	0.261
5	WW	5	153.6	185.464	154.260	205.200	126.591	103.115	137.166	3	20.632	11.125	1	0.575	0.026
6	WW	5	153.6	215.972	184.340	230.240	148.476	123.222	153.904	1	18.969	8.783	1	0.128	0.002
10	WW	5	153.6	162.081	146.961	179.002	102.638	98.236	119.654	5	14.979	9.242	1	0.111	0.274
11	WW	5	153.6	188.445	180.647	198.883	126.148	120.753	132.943	4	6.900	3.661	1	0.788	0.000
12	WW	5	153.6	156.703	141.802	169.886	105.170	94.787	113.560	5	12.217	7.797	1	0.560	0.600
16	WW	5	153.6	169.370	136.367	198.387	114.748	91.155	132.611	4	22.852	13.493	1	0.970	0.198
20	WW	40	153.6	182.567	136.367	339.426	119.623	113.560	126.591	30	35.242	19.304	1	0.000	0.000

Table A-126: M262FtS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	152	135.788	130.040	153.220	86.849	85.553	100.803	5	9.816	7.229	1	0.004	0.021
4	GW	5	152	164.284	135.279	190.345	108.741	88.999	125.227	5	19.768	12.033	1	0.813	0.237
5	GW	5	152	156.420	127.880	174.640	107.263	84.132	114.895	5	19.291	12.333	1	0.498	0.635
6	GW	5	152	157.200	154.000	160.000	103.289	101.316	105.263	5	2.775	1.765	1	0.292	0.014
10	GW	5	152	167.106	140.253	201.594	110.785	92.272	132.628	4	22.759	13.619	1	0.781	0.212
11	GW	5	152	143.687	132.077	154.033	95.191	86.893	101.337	5	8.708	6.060	1	0.938	0.100
12	GW	5	152	151.922	135.572	160.032	101.721	89.192	105.284	5	9.779	6.437	1	0.192	0.987
16	GW	5	152	147.414	138.586	153.060	98.063	91.175	100.697	5	5.640	3.826	1	0.594	0.143
20	GW	40	152	152.978	127.880	201.594	101.059	96.184	104.180	39	16.178	10.576	1	0.070	0.704
2	RW	5	152	147.384	119.800	161.550	100.125	78.816	106.283	5	16.862	11.441	1	0.258	0.574
4	RW	5	152	164.813	132.101	185.114	111.919	86.908	121.786	5	20.182	12.246	1	0.477	0.229
5	RW	5	152	169.412	158.460	183.420	112.632	104.250	120.671	5	9.733	5.745	1	0.721	0.016
6	RW	5	152	155.400	151.000	167.000	100.658	99.342	109.868	5	6.580	4.234	1	0.013	0.312
10	RW	5	152	188.852	172.893	198.189	128.234	113.745	130.388	3	11.630	6.158	1	0.133	0.002
11	RW	5	152	148.030	138.097	168.822	93.828	90.854	111.067	5	12.605	8.515	1	0.159	0.520
12	RW	5	152	151.073	143.510	160.552	99.278	94.414	105.626	5	6.688	4.427	1	0.905	0.772
16	RW	5	152	161.692	133.063	176.736	112.019	87.541	116.274	5	17.364	10.739	1	0.185	0.280
20	RW	40	152	160.832	119.800	198.189	105.211	100.125	111.919	38	17.977	11.178	1	0.878	0.004

Table A-126 (continued): M262FtS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	152	136.060	120.820	143.800	92.816	79.487	94.605	5	9.460	6.953	1	0.171	0.020
4	SW	5	152	160.171	143.907	178.227	105.898	94.676	117.254	5	14.617	9.126	1	0.653	0.279
5	SW	5	152	157.852	132.280	187.040	104.553	87.026	123.053	5	19.831	12.563	1	0.831	0.545
6	SW	5	152	188.000	148.000	246.000	113.816	97.368	161.842	3	39.981	21.267	1	0.572	0.114
10	SW	5	152	174.303	162.059	184.143	116.608	106.618	121.147	5	8.360	4.796	1	0.782	0.004
11	SW	5	152	144.812	138.381	147.474	95.965	91.040	97.022	5	3.735	2.579	1	0.053	0.013
12	SW	5	152	149.838	144.832	153.918	98.789	95.284	101.262	5	3.889	2.595	1	0.607	0.282
16	SW	5	152	152.434	138.998	160.313	101.854	91.446	105.469	5	7.995	5.245	1	0.178	0.909
20	SW	40	152	157.934	120.820	246.000	100.693	96.907	105.763	38	22.331	14.139	1	0.000	0.101
2	WW	5	152	158.806	133.980	177.950	108.618	88.145	117.072	5	17.102	10.769	1	0.749	0.424
4	WW	5	152	191.425	144.401	325.838	108.167	95.001	214.367	4	75.949	39.676	1	0.007	0.310
5	WW	5	152	171.128	133.580	201.800	116.447	87.882	132.763	4	24.908	14.555	1	0.774	0.161
6	WW	5	152	206.200	172.000	240.000	128.947	113.158	157.895	3	28.778	13.957	1	0.505	0.014
10	WW	5	152	156.724	143.416	175.481	100.365	94.352	115.448	5	12.110	7.727	1	0.651	0.432
11	WW	5	152	147.346	138.605	160.350	95.009	91.187	105.493	5	8.172	5.546	1	0.504	0.272
12	WW	5	152	153.735	142.350	163.854	99.407	93.651	107.799	5	8.613	5.603	1	0.673	0.676
16	WW	5	152	152.076	141.891	178.846	96.284	93.349	117.662	5	15.283	10.049	1	0.021	0.992
20	WW	40	152	167.180	133.580	325.838	105.552	98.665	109.921	36	34.958	20.910	1	0.000	0.009

Table A-127: M242FtS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	149.6	129.076	111.560	136.290	86.563	72.630	88.730	5	10.044	7.782	1	0.034	0.010
4	GW	5	149.6	164.672	80.885	281.100	114.686	52.659	183.008	1	84.185	51.123	0	0.490	0.709
5	GW	5	149.6	149.976	145.840	155.880	95.586	94.948	101.484	5	4.950	3.300	1	0.047	0.873
6	GW	5	149.6	142.200	141.000	144.000	92.448	91.797	93.750	5	1.304	0.917	1	0.421	0.000
10	GW	5	149.6	130.394	119.429	137.961	88.991	77.753	89.818	5	9.752	7.479	1	0.018	0.012
11	GW	5	149.6	148.604	140.203	165.022	96.034	91.278	107.436	5	9.740	6.554	1	0.147	0.830
12	GW	5	149.6	150.021	143.300	155.900	99.292	93.294	101.497	5	5.447	3.631	1	0.365	0.871
16	GW	5	149.6	151.144	134.560	165.526	99.053	87.604	107.765	5	11.187	7.401	1	0.848	0.773
20	GW	40	149.6	145.761	80.885	281.100	93.522	91.278	96.227	36	29.968	20.560	1	0.000	0.423
2	RW	5	149.6	149.604	137.420	174.440	94.577	89.466	113.568	5	14.309	9.565	1	0.031	1.000
4	RW	5	149.6	137.986	51.589	224.596	93.533	33.587	146.221	2	65.098	47.177	1	0.998	0.710
5	RW	5	149.6	156.580	142.140	175.520	96.628	92.539	114.271	5	15.208	9.713	1	0.176	0.363
6	RW	5	149.6	139.800	136.000	144.000	89.844	88.542	93.750	5	3.493	2.498	1	0.275	0.003
10	RW	5	149.6	176.181	164.096	188.701	112.608	106.833	122.852	5	9.962	5.654	1	0.728	0.004
11	RW	5	149.6	151.306	147.397	157.173	99.000	95.962	102.326	5	4.048	2.675	1	0.382	0.399
12	RW	5	149.6	151.997	144.272	159.520	98.267	93.927	103.854	5	6.492	4.271	1	0.633	0.455
16	RW	5	149.6	149.534	139.312	156.711	98.400	90.698	102.025	5	7.317	4.893	1	0.572	0.985
20	RW	40	149.6	151.623	51.589	224.596	96.363	94.421	102.025	37	25.013	16.496	1	0.000	0.612

Table A-127 (continued): M242FtS High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	149.6	119.986	109.690	131.460	79.421	71.413	85.586	5	8.293	6.912	1	0.837	0.001
4	SW	5	149.6	176.660	46.113	285.220	127.232	30.021	185.690	1	112.092	63.451	0	0.246	0.618
5	SW	5	149.6	157.640	141.340	172.000	103.008	92.018	111.979	5	11.045	7.006	1	0.837	0.179
6	SW	5	149.6	175.800	148.000	227.000	102.214	96.354	147.786	4	35.209	20.028	1	0.151	0.171
10	SW	5	149.6	151.993	146.858	162.015	95.939	95.611	105.479	5	6.994	4.602	1	0.065	0.487
11	SW	5	149.6	146.842	142.599	149.085	96.131	92.838	97.060	5	2.655	1.808	1	0.300	0.081
12	SW	5	149.6	155.210	152.706	159.466	101.116	99.418	103.819	5	2.764	1.781	1	0.352	0.011
16	SW	5	149.6	148.816	145.733	152.271	96.260	94.878	99.135	5	2.626	1.764	1	0.720	0.541
20	SW	40	149.6	154.118	46.113	285.220	97.033	95.939	101.302	35	41.595	26.989	1	0.000	0.496
2	WW	5	149.6	129.470	118.610	147.120	83.118	77.220	95.781	5	10.578	8.170	1	0.188	0.013
4	WW	5	149.6	179.646	83.915	269.350	125.465	54.632	175.358	1	89.741	49.954	1	0.173	0.496
5	WW	5	149.6	160.080	145.120	169.740	106.055	94.479	110.508	5	9.332	5.830	1	0.527	0.066
6	WW	5	149.6	200.200	164.000	228.000	126.302	106.771	148.438	3	26.650	13.311	1	0.498	0.013
10	WW	5	149.6	139.892	123.595	156.261	90.746	80.466	101.732	5	12.435	8.889	1	0.999	0.156
11	WW	5	149.6	157.883	151.893	167.181	99.987	98.889	108.842	5	7.003	4.436	1	0.118	0.057
12	WW	5	149.6	147.306	140.622	153.172	94.712	91.551	99.721	5	5.528	3.753	1	0.330	0.406
16	WW	5	149.6	155.465	130.142	177.982	96.885	84.728	115.874	5	19.629	12.626	1	0.560	0.541
20	WW	40	149.6	158.743	83.915	269.350	99.621	94.712	106.521	34	37.856	23.847	1	0.002	0.135

Table A-128: d5NEtFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	125.654	98.750	160.430	84.372	65.311	106.104	4	23.854	18.984	1	0.830	0.032
4	GW	5	160	143.862	125.274	165.690	93.091	82.853	109.583	5	14.702	10.219	1	0.813	0.070
5	GW	5	160	211.464	176.520	228.000	144.312	116.746	150.794	1	21.284	10.065	1	0.174	0.006
6	GW	5	160	156.200	154.000	158.000	103.175	101.852	104.497	5	1.789	1.145	1	0.377	0.009
10	GW	5	160	160.390	146.840	167.117	108.457	97.116	110.527	5	8.595	5.359	1	0.197	0.924
11	GW	5	160	163.508	151.873	172.265	112.606	100.445	113.932	5	10.473	6.405	1	0.025	0.496
12	GW	5	160	150.735	134.716	158.774	101.319	89.098	105.009	5	9.366	6.214	1	0.120	0.091
16	GW	5	160	172.071	165.421	178.236	114.707	109.406	117.881	5	4.809	2.795	1	0.890	0.005
20	GW	40	160	160.486	98.750	228.000	104.497	101.319	110.401	35	26.732	16.657	1	0.009	0.909
2	RW	5	160	144.462	139.050	152.160	95.899	91.964	100.635	5	5.075	3.513	1	0.616	0.002
4	RW	5	160	139.326	122.732	158.281	95.036	81.172	104.683	5	14.699	10.550	1	0.577	0.035
5	RW	5	160	206.028	185.460	233.200	136.508	122.659	154.233	2	17.967	8.721	1	0.818	0.005
6	RW	5	160	160.000	153.000	174.000	103.836	101.190	115.079	5	8.216	5.135	1	0.127	1.000
10	RW	5	160	177.856	170.560	181.875	118.414	112.804	120.287	5	4.701	2.643	1	0.348	0.001
11	RW	5	160	152.609	143.474	156.323	101.743	94.890	103.388	5	5.225	3.424	1	0.023	0.034
12	RW	5	160	152.830	139.744	164.964	101.324	92.423	109.103	5	10.043	6.571	1	0.944	0.186
16	RW	5	160	172.289	155.214	201.133	108.891	102.655	133.024	4	18.092	10.501	1	0.385	0.203
20	RW	40	160	163.175	122.732	233.200	103.612	101.324	109.103	36	23.123	14.171	1	0.022	0.390

Table A-128 (continued): d5NEtFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	134.346	107.070	171.980	81.065	70.813	113.743	5	26.458	19.694	1	0.535	0.096
4	SW	5	160	162.869	119.601	205.024	101.415	79.101	135.598	4	32.940	20.225	1	0.846	0.855
5	SW	5	160	212.360	188.200	240.000	137.434	124.471	158.730	1	20.042	9.438	1	0.937	0.004
6	SW	5	160	156.600	147.000	164.000	104.497	97.222	108.466	5	6.148	3.926	1	0.517	0.284
10	SW	5	160	165.005	155.308	180.247	107.848	102.717	119.211	5	9.797	5.937	1	0.615	0.317
11	SW	5	160	167.654	159.676	173.748	112.567	105.606	114.913	5	6.707	4.001	1	0.152	0.063
12	SW	5	160	155.810	146.056	158.886	104.565	96.598	105.083	5	5.480	3.517	1	0.002	0.162
16	SW	5	160	164.204	156.127	181.478	104.973	103.259	120.025	5	10.388	6.326	1	0.106	0.417
20	SW	40	160	164.856	107.070	240.000	105.028	104.497	111.154	35	26.196	15.890	1	0.009	0.248
2	WW	5	160	144.524	117.720	161.200	96.713	77.857	106.614	5	16.263	11.253	1	0.316	0.100
4	WW	5	160	189.561	139.690	292.108	114.285	92.387	193.193	4	59.051	31.152	1	0.035	0.326
5	WW	5	160	214.240	183.160	237.600	149.471	121.138	157.143	1	22.951	10.713	1	0.381	0.006
6	WW	5	160	180.600	169.000	191.000	118.386	111.772	126.323	5	9.711	5.377	1	0.443	0.009
10	WW	5	160	159.848	150.719	171.444	107.247	99.682	113.389	5	8.789	5.498	1	0.437	0.971
11	WW	5	160	166.908	146.986	179.439	113.318	97.213	118.676	5	14.304	8.570	1	0.317	0.341
12	WW	5	160	157.403	142.056	166.132	104.366	93.952	109.876	5	9.640	6.124	1	0.350	0.579
16	WW	5	160	168.854	143.854	181.745	113.459	95.142	120.202	5	14.747	8.734	1	0.154	0.251
20	WW	40	160	172.742	117.720	292.108	112.060	106.614	115.554	35	30.562	17.692	1	0.000	0.012

Table A-129: d3NMeFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	GW	5	160	131.468	106.230	150.010	86.893	69.377	97.969	4	16.304	12.401	1	0.783	0.017
4	GW	5	160	164.214	132.831	183.043	110.575	86.749	119.542	5	20.086	12.232	1	0.503	0.663
5	GW	5	160	221.348	194.400	283.200	128.527	126.959	184.953	3	39.191	17.706	1	0.061	0.025
6	GW	5	160	150.000	149.000	151.000	97.962	97.309	98.615	5	1.000	0.667	1	0.119	0.000
10	GW	5	160	158.693	151.716	161.383	104.898	99.083	105.396	5	4.009	2.526	1	0.024	0.506
11	GW	5	160	177.155	166.318	182.656	118.542	108.619	119.289	5	7.150	4.036	1	0.115	0.006
12	GW	5	160	158.221	149.506	169.368	103.934	97.640	110.611	5	7.510	4.747	1	0.780	0.624
16	GW	5	160	164.148	155.730	178.294	106.441	101.705	116.441	5	9.289	5.659	1	0.450	0.375
20	GW	40	160	165.656	106.230	283.200	104.571	100.226	110.575	37	29.284	17.677	1	0.000	0.229
2	RW	5	160	133.460	122.080	141.950	87.167	79.728	92.705	5	7.310	5.477	1	0.664	0.001
4	RW	5	160	147.185	117.487	176.901	98.225	76.728	115.531	5	22.649	15.388	1	0.986	0.274
5	RW	5	160	175.576	125.800	214.200	126.228	82.158	139.890	3	43.084	24.539	1	0.108	0.464
6	RW	5	160	162.000	157.000	174.000	103.187	102.534	113.636	5	7.106	4.387	1	0.049	0.563
10	RW	5	160	175.215	169.599	179.428	114.882	110.762	117.181	5	3.909	2.231	1	0.825	0.001
11	RW	5	160	155.234	139.341	164.645	102.550	91.001	107.527	5	9.626	6.201	1	0.352	0.330
12	RW	5	160	157.816	148.862	163.524	104.111	97.219	106.795	5	5.456	3.457	1	0.341	0.421
16	RW	5	160	165.949	151.915	179.306	107.520	99.213	117.101	5	10.894	6.565	1	0.922	0.289
20	RW	40	160	159.054	117.487	214.200	103.649	101.106	107.520	38	21.442	13.481	1	0.189	0.782

Table A-129 (continued): d3NMeFOSAA High Spike Samples

Lab (20 = all)	Media	Number	Spike conc	Mean	Minimum	Maximum	Recovery median	Recovery median 95% LCL	Recovery median 95% UCL	Recovery accept total	Std Dev	RSD	RSD accept (1 = yes, 0 = no)	Probability normal	Probability t-test
2	SW	5	160	131.006	108.110	158.230	86.416	70.605	103.337	5	19.311	14.741	1	0.937	0.028
4	SW	5	160	162.707	143.894	195.692	101.881	93.975	127.803	5	21.971	13.503	1	0.343	0.797
5	SW	5	160	195.420	162.660	248.200	121.421	106.230	162.095	3	35.654	18.245	1	0.475	0.090
6	SW	5	160	153.200	144.000	161.000	99.922	94.044	105.146	5	6.419	4.190	1	0.964	0.077
10	SW	5	160	164.494	158.844	173.896	104.179	103.738	113.568	5	7.396	4.496	1	0.039	0.246
11	SW	5	160	166.269	149.086	183.999	108.347	97.365	120.166	5	12.360	7.434	1	0.475	0.320
12	SW	5	160	154.641	148.366	160.918	100.684	96.895	105.093	5	4.632	2.996	1	0.986	0.061
16	SW	5	160	160.509	137.529	179.852	105.278	89.818	117.458	5	15.088	9.400	1	0.463	0.944
20	SW	40	160	161.031	108.110	248.200	104.030	100.684	106.659	38	23.557	14.629	1	0.001	0.783
2	WW	5	160	115.322	95.680	132.970	74.471	62.487	86.840	3	15.583	13.513	1	0.730	0.003
4	WW	5	160	193.804	144.771	304.034	106.717	94.547	198.559	4	64.235	33.145	1	0.062	0.305
5	WW	5	160	212.180	181.660	254.000	126.489	118.639	165.883	3	33.654	15.861	1	0.133	0.026
6	WW	5	160	156.400	140.000	169.000	101.228	91.432	110.371	5	11.950	7.641	1	0.646	0.537
10	WW	5	160	154.842	140.716	168.700	102.045	91.899	110.175	5	11.962	7.725	1	0.643	0.390
11	WW	5	160	170.694	155.961	186.101	114.175	101.855	121.539	5	12.267	7.187	1	0.648	0.123
12	WW	5	160	150.752	142.418	165.744	96.575	93.011	108.245	5	9.894	6.563	1	0.322	0.105
16	WW	5	160	161.797	140.207	180.378	103.557	91.567	117.802	5	15.202	9.395	1	0.818	0.805
20	WW	40	160	164.474	95.680	304.034	104.215	98.615	110.175	35	37.481	22.789	1	0.000	0.455

APPENDIX B RECOVERY AND MEASUREMENT GRAPHS BY ANALYTE OR SURROGATE

Figure B-1: Measured PFTreA

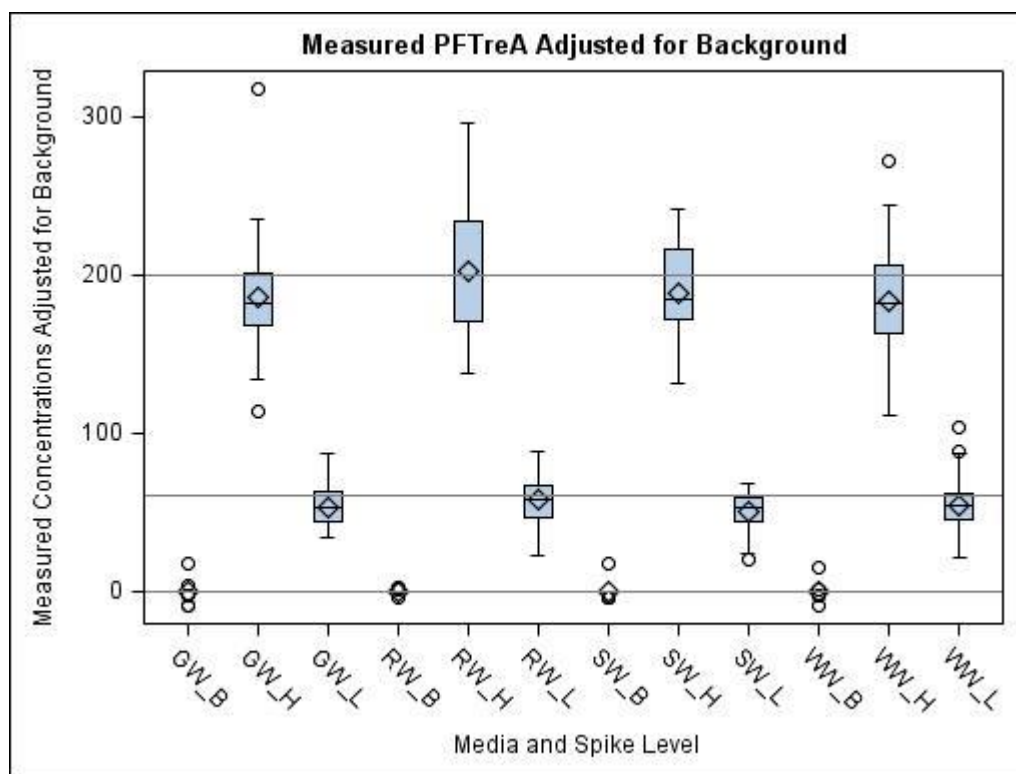


Figure B-2: Recovery of PFTreA (standardized y-axis)

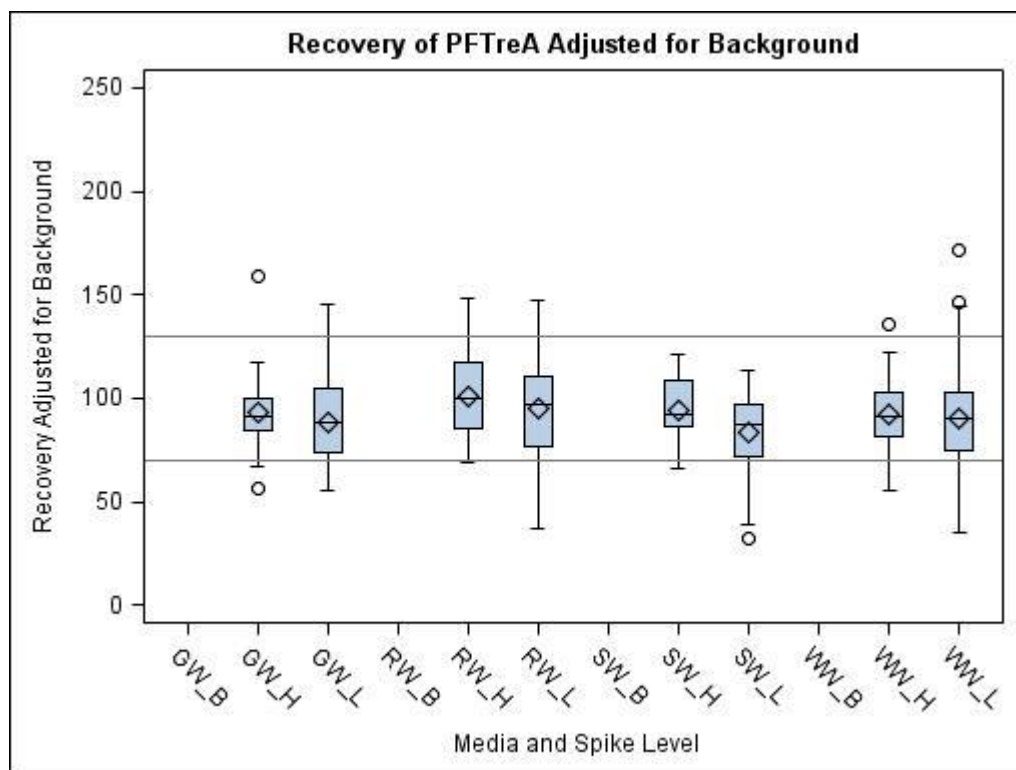


Figure B-3: Measured PFTriA

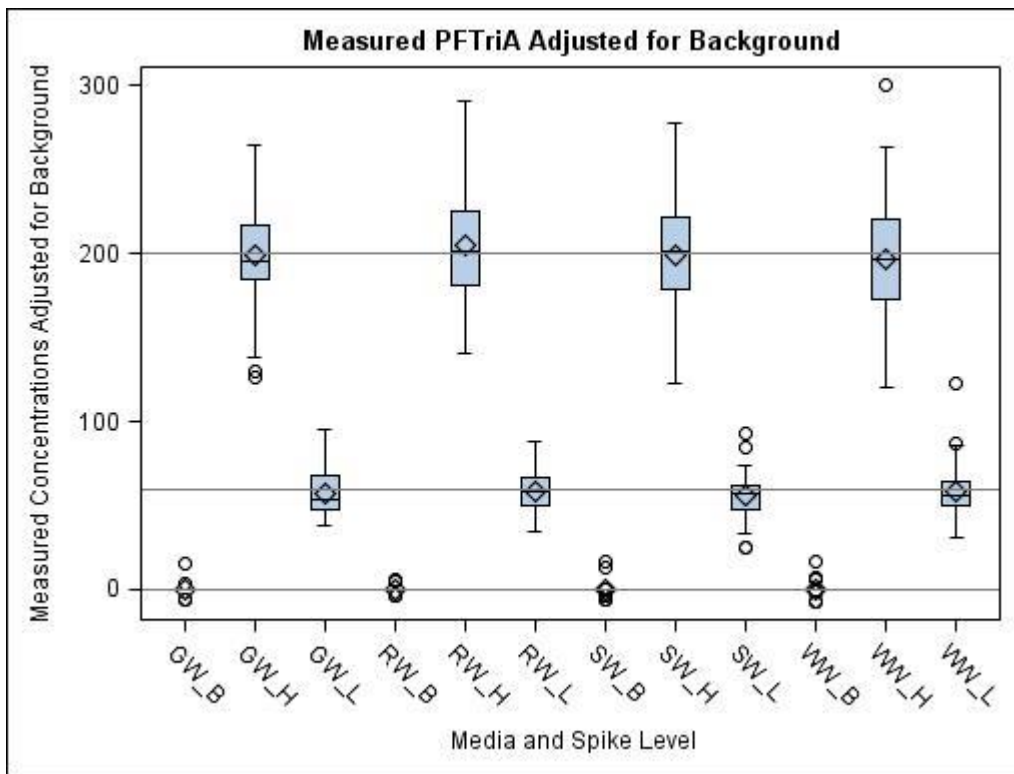


Figure B-4: Recovery of PFTriA (standardized y-axis)

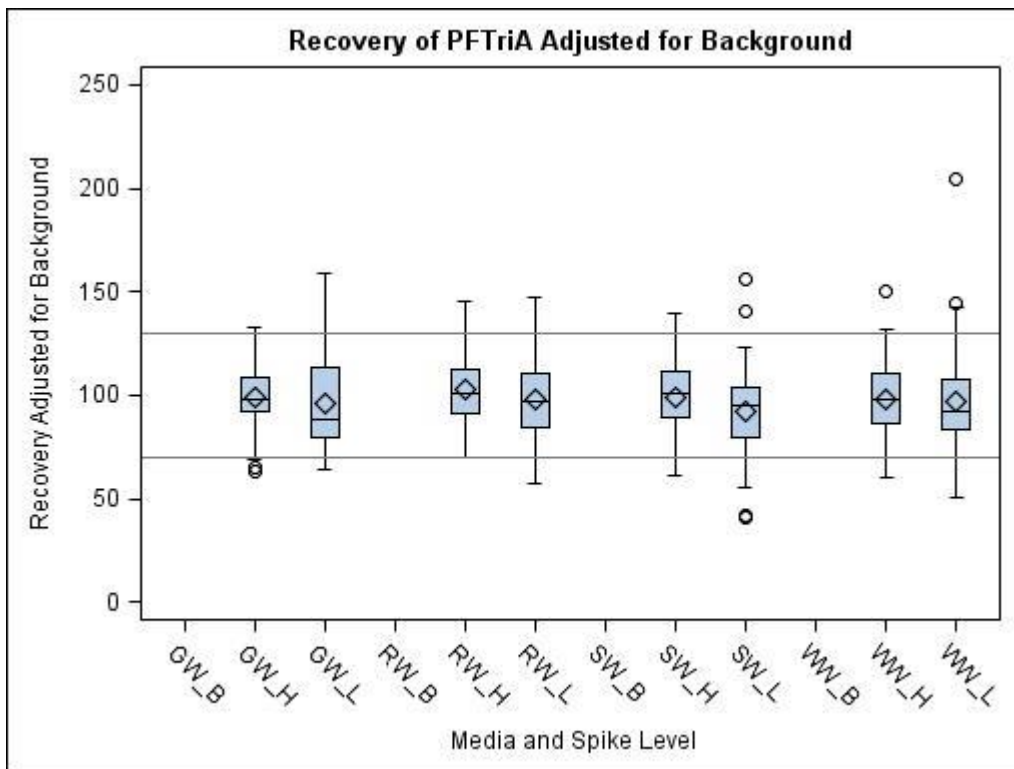


Figure B-5: Measured PFDoA

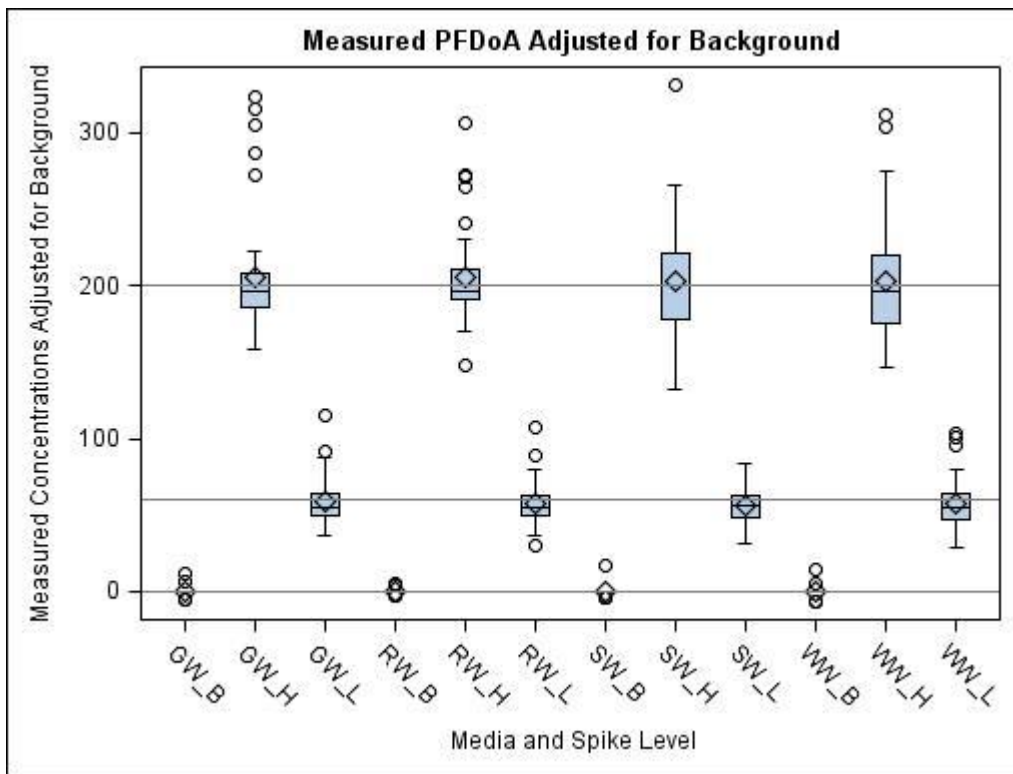


Figure B-6: Recovery of PFDoA (standardized y-axis)

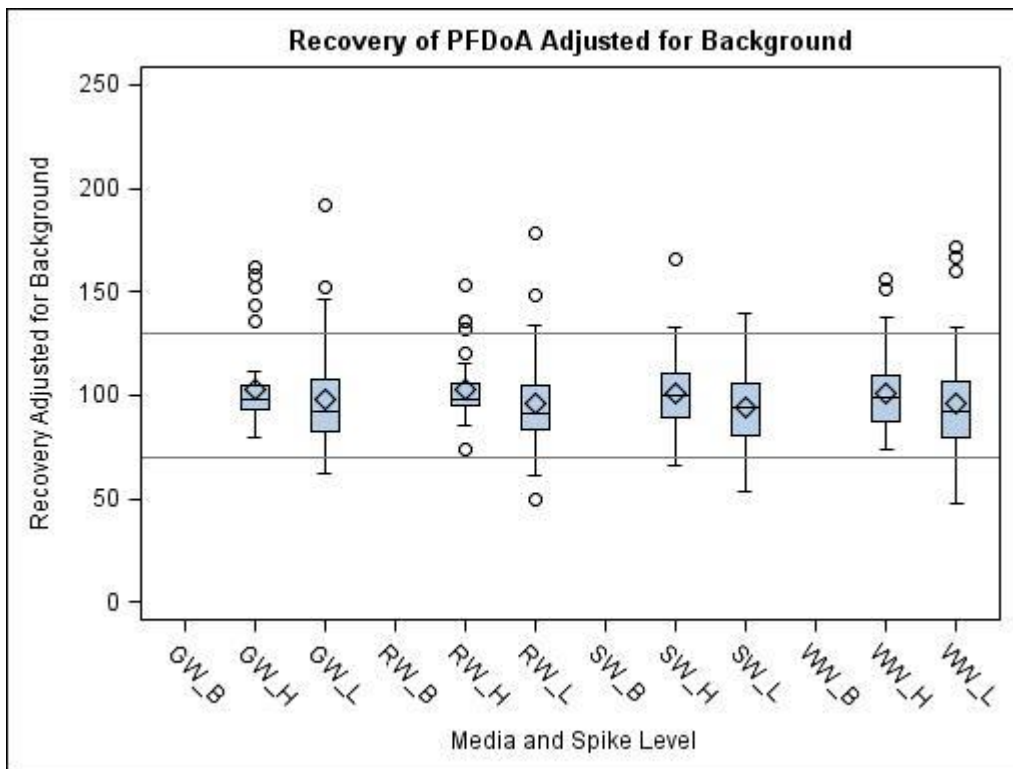


Figure B-7: Measured PFUnA

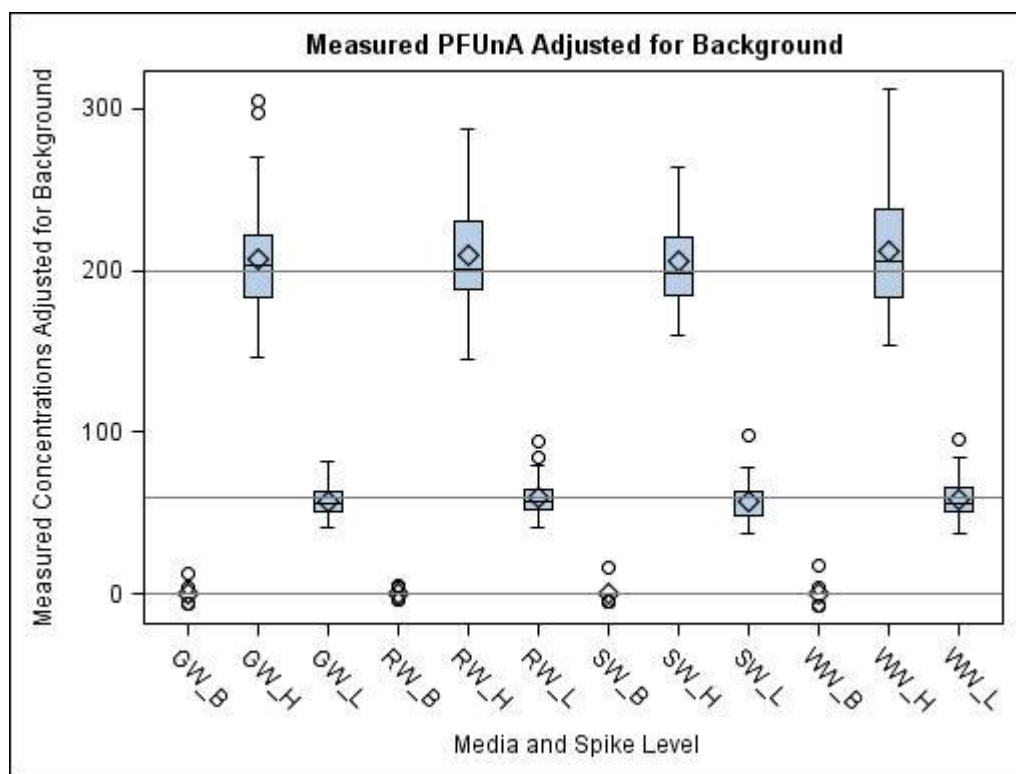


Figure B-8: Recovery of PFUnA (standardized y-axis)

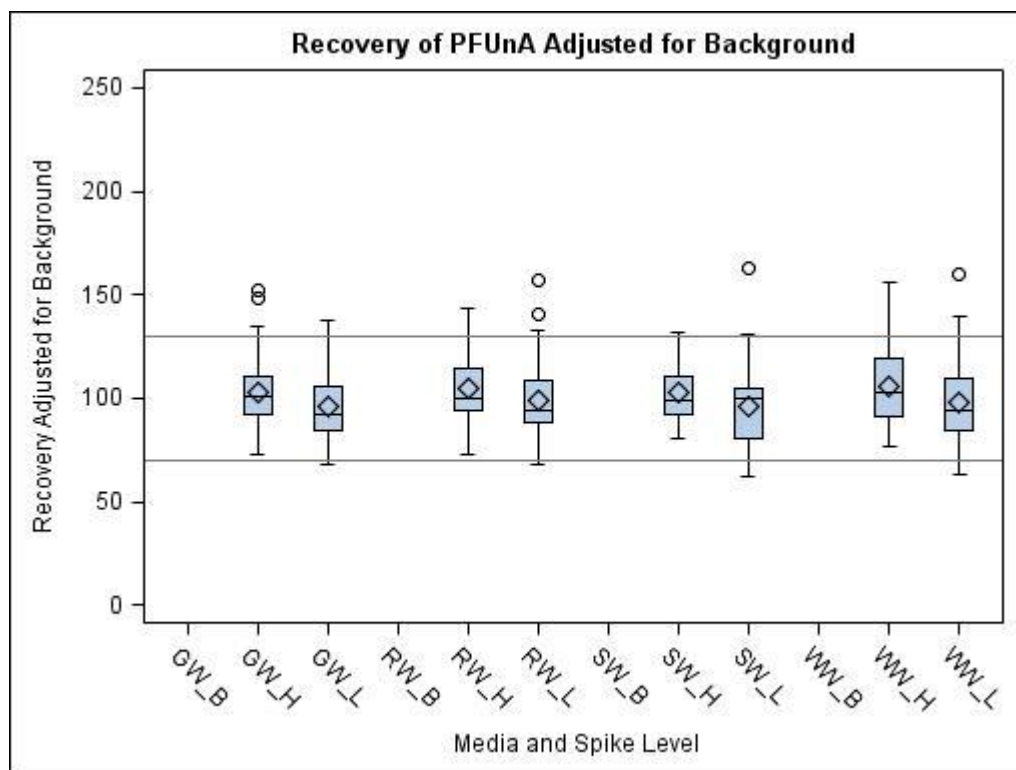


Figure B-9: Measured PFDA

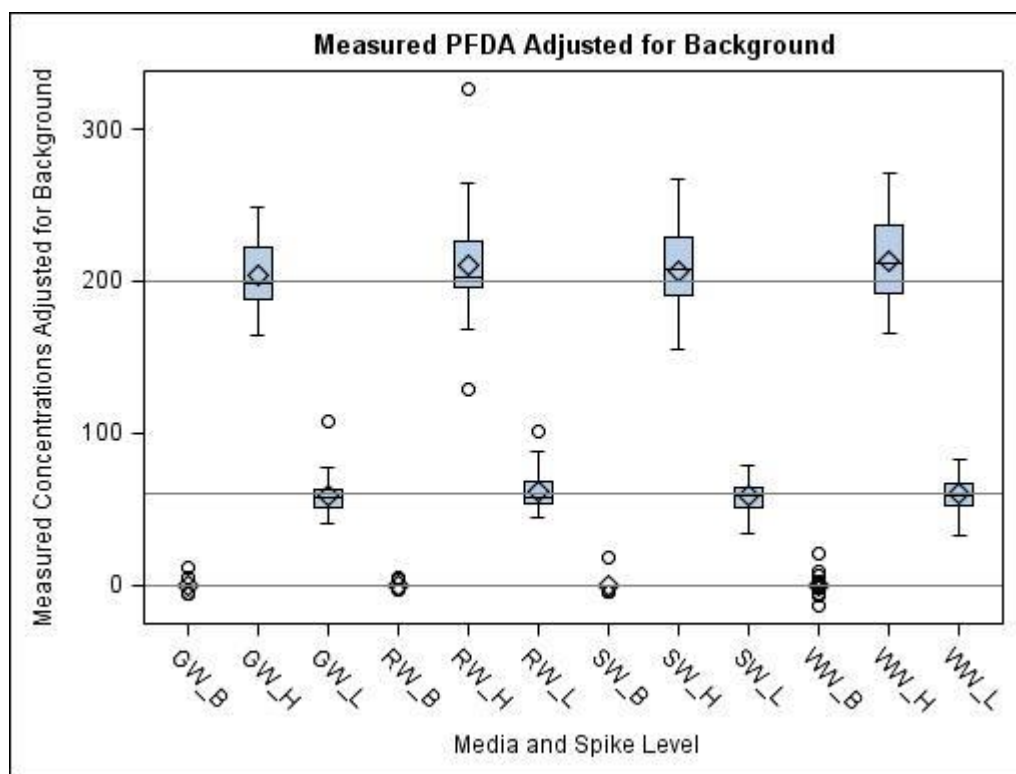


Figure B-10: Recovery of PFDA (standardized y-axis)

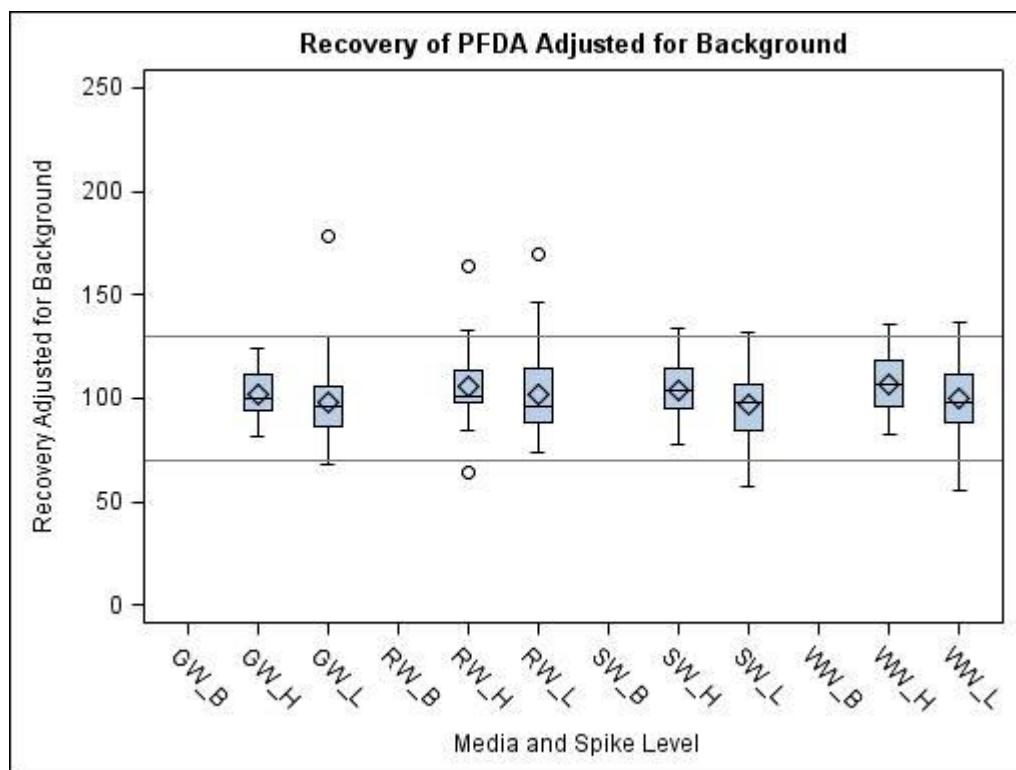


Figure B-11: Measured PFNA

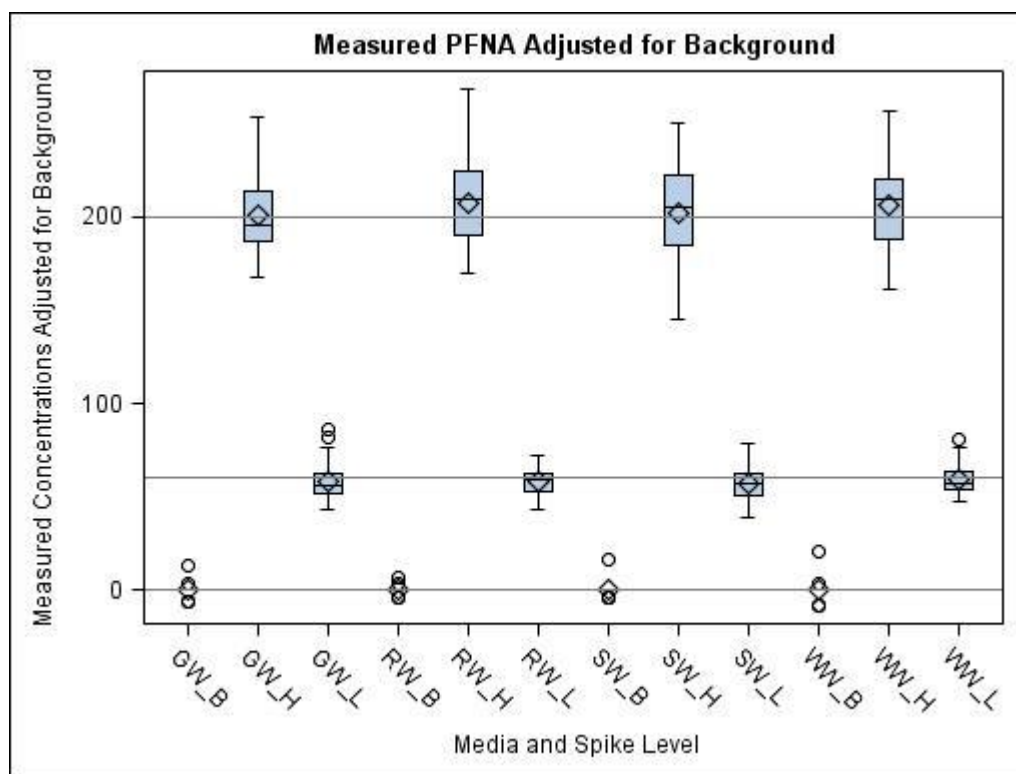


Figure B-12: Recovery of PFNA (standardized y-axis)

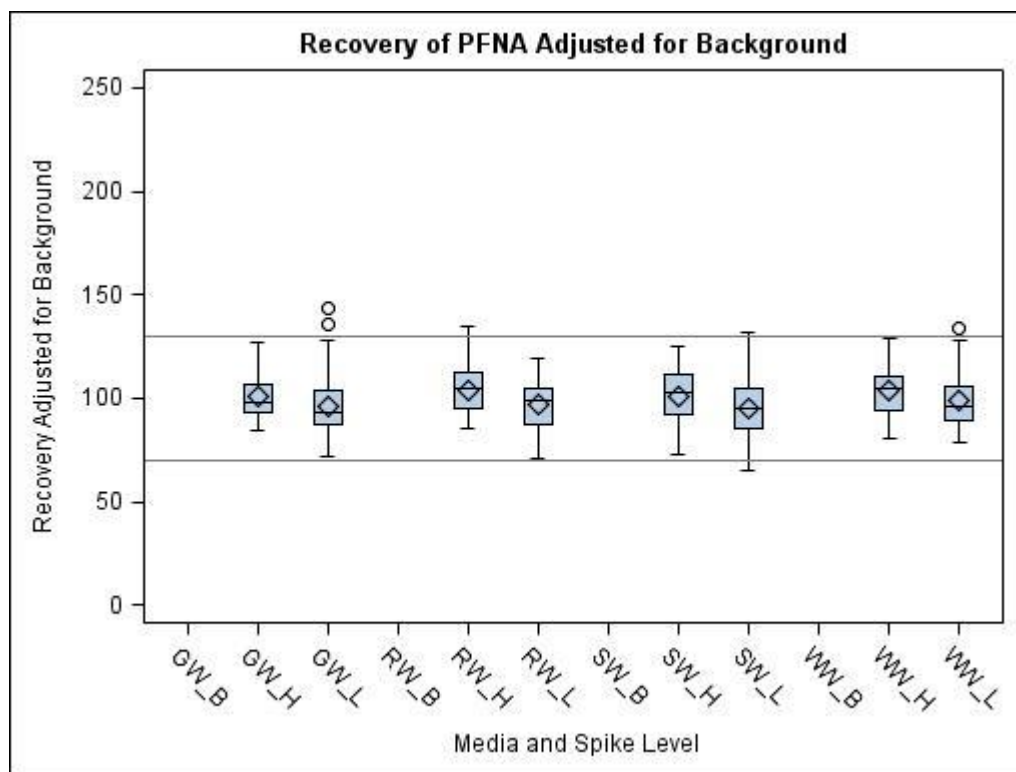


Figure B-13: Measured PFOA

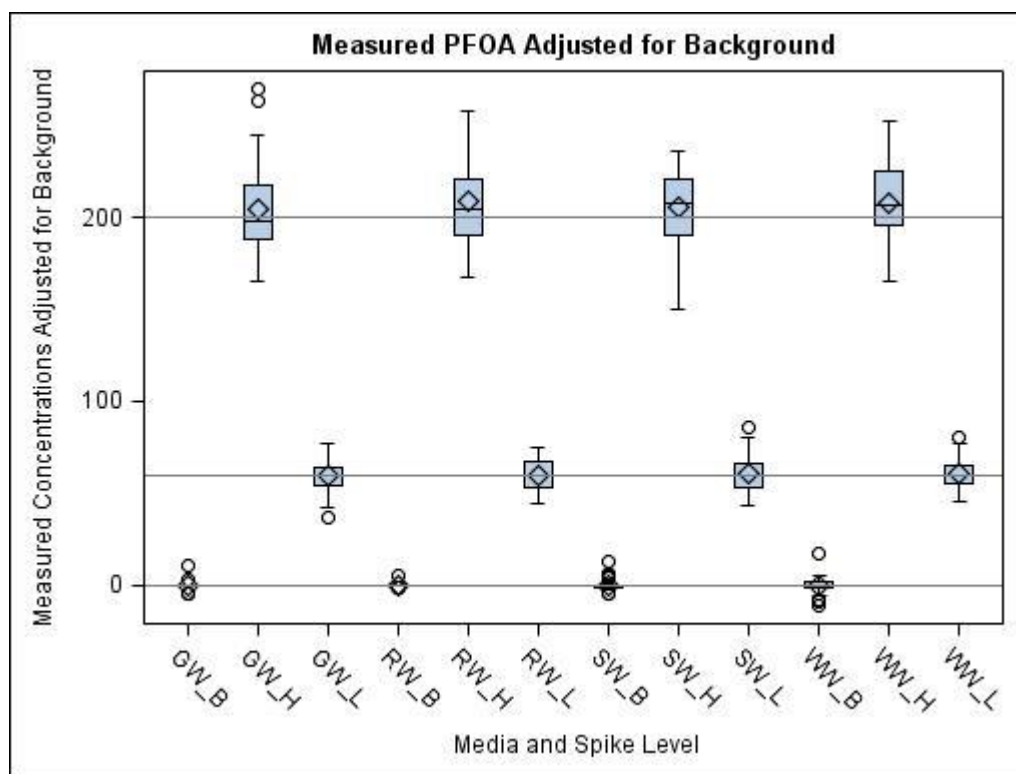


Figure B-14: Recovery of PFOA (standardized y-axis)

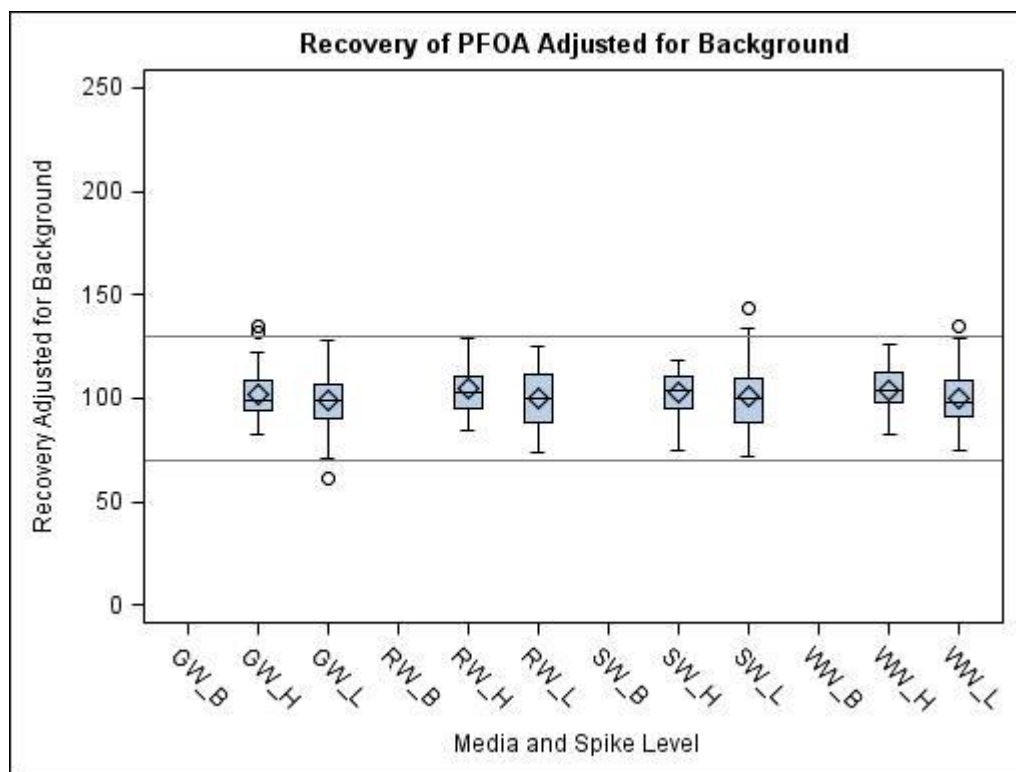


Figure B-15: Measured PFHpA

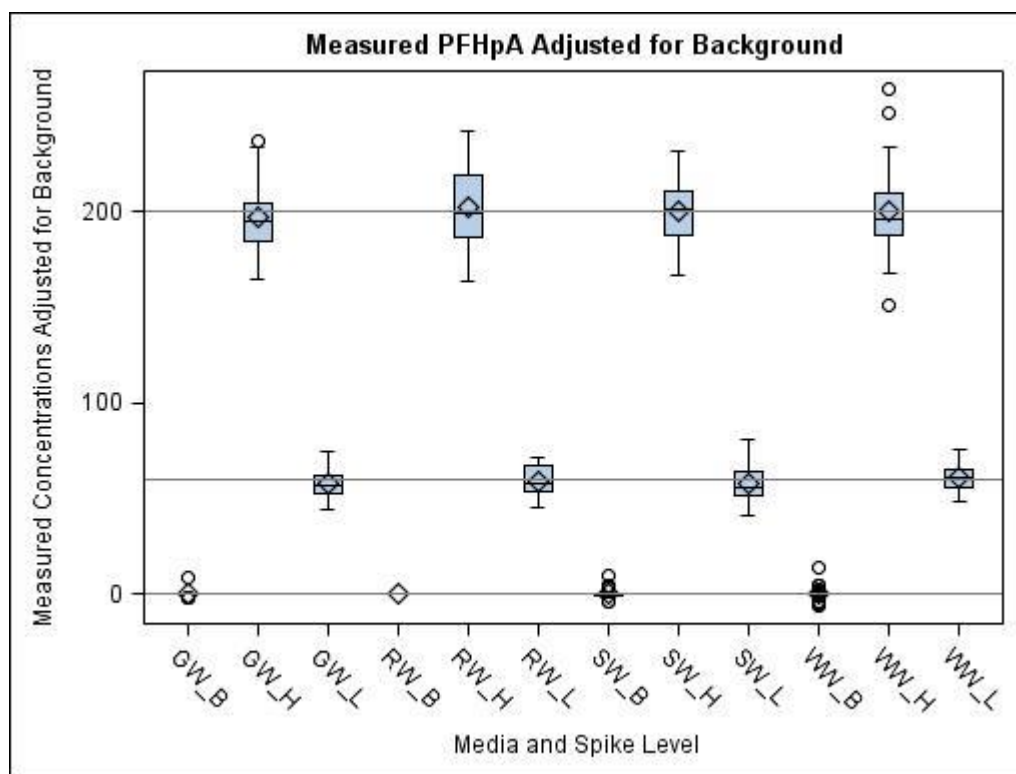


Figure B-16: Recovery of PFHpA (standardized y-axis)

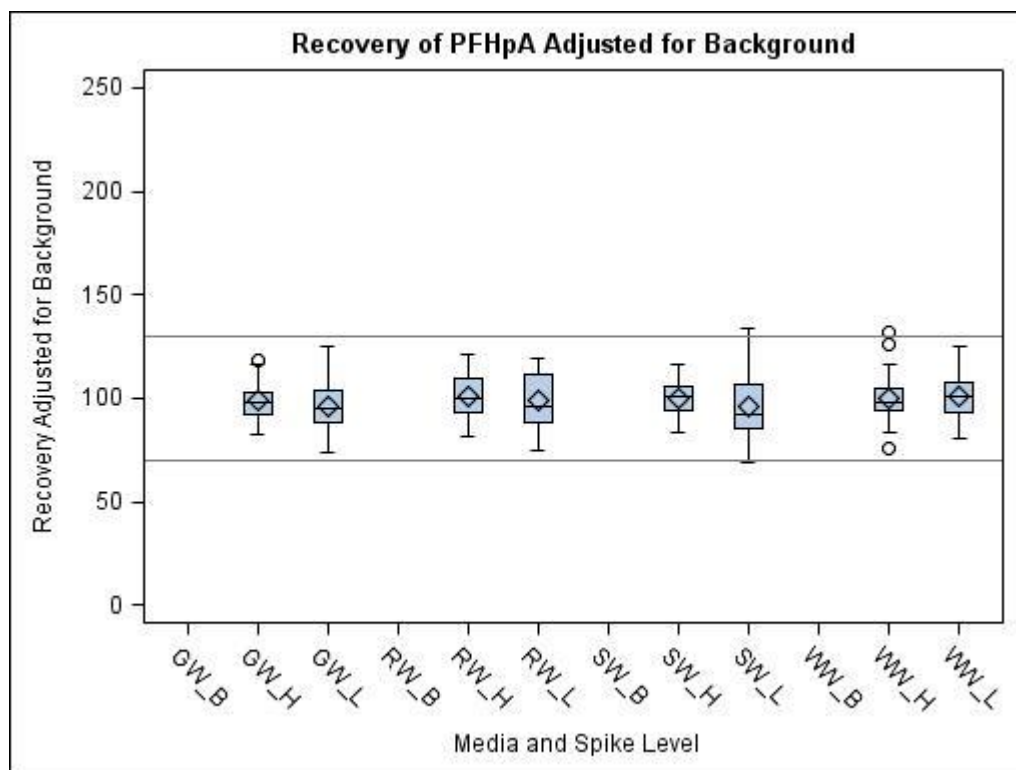


Figure B-17: Measured PFHxA

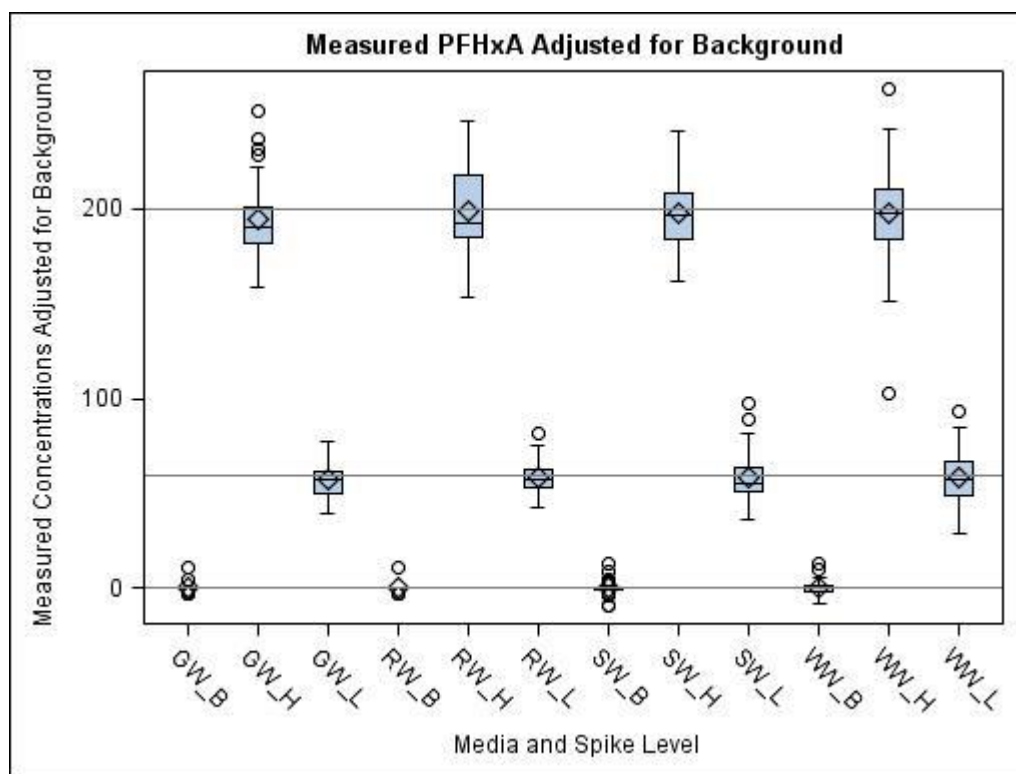


Figure B-18: Recovery of PFHxA (standardized y-axis)

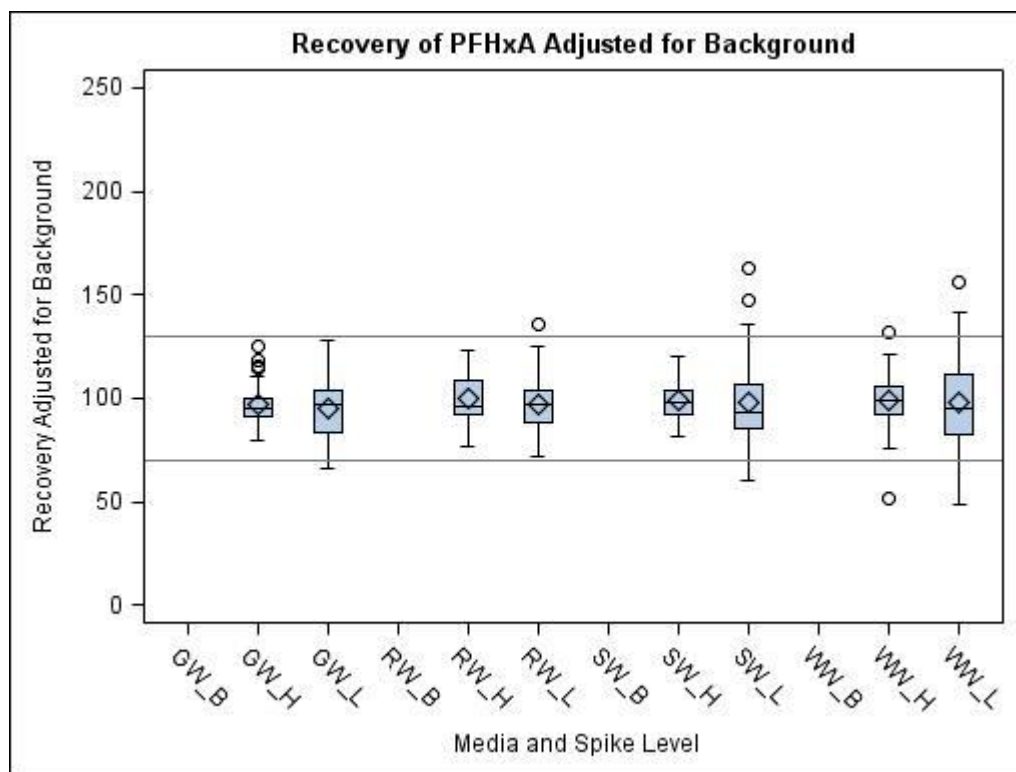


Figure B-19: Measured PFPeA

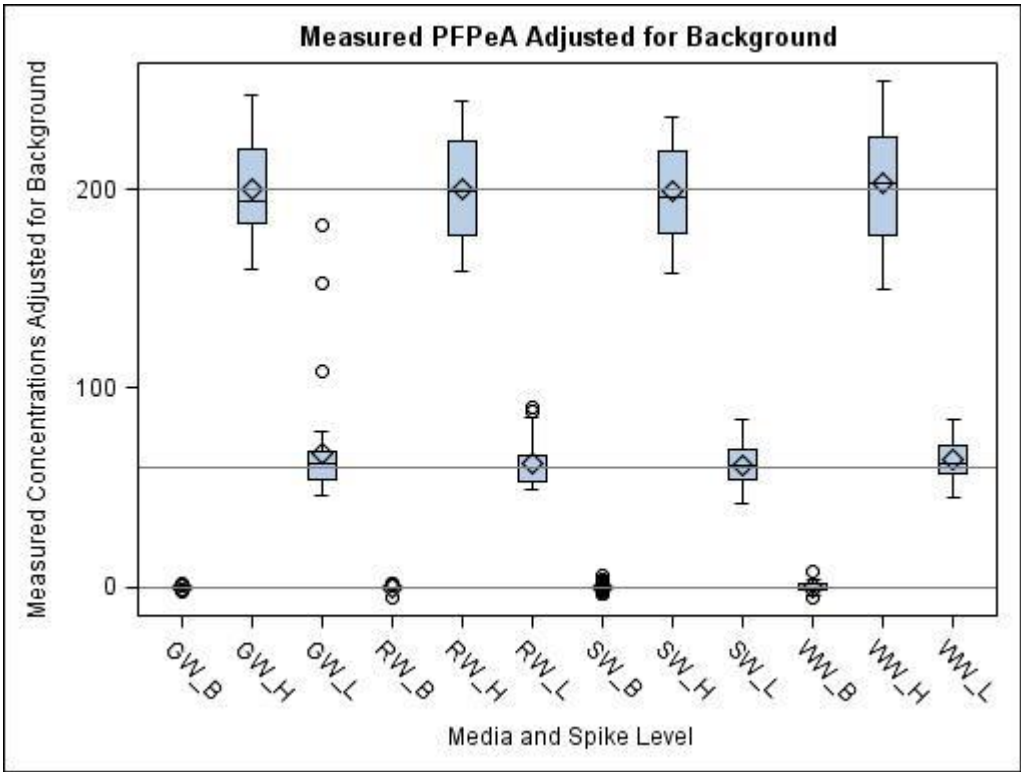


Figure B-20: Recovery of PFPeA (standardized y-axis)

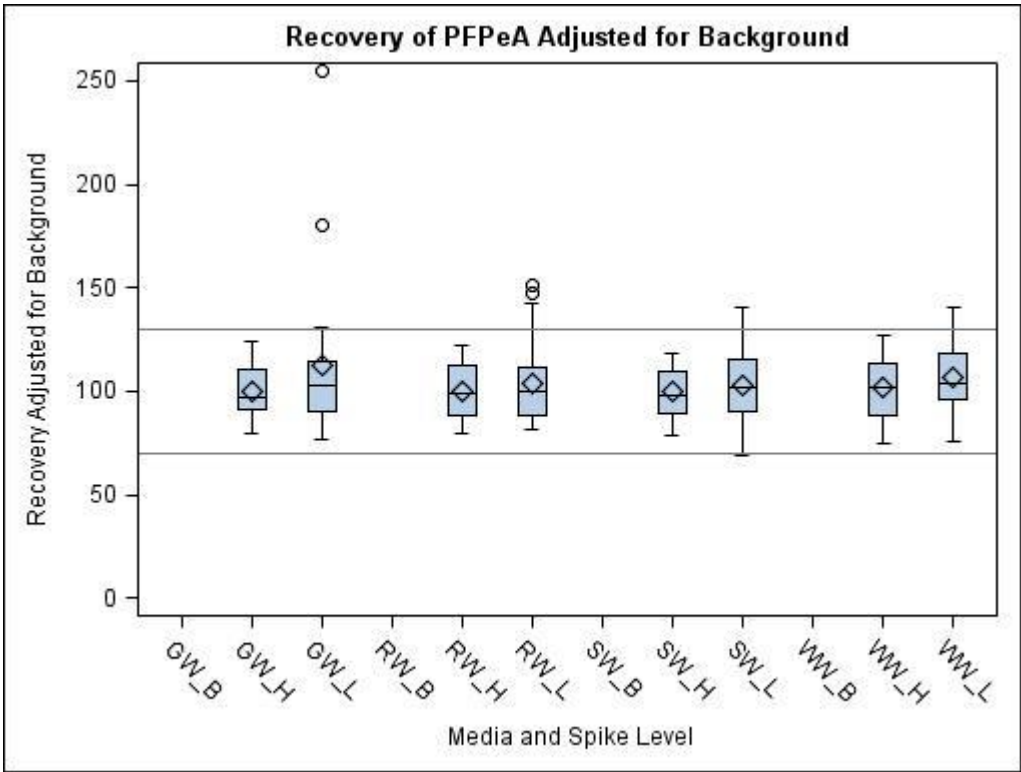


Figure B-21: Recovery of PFPeA

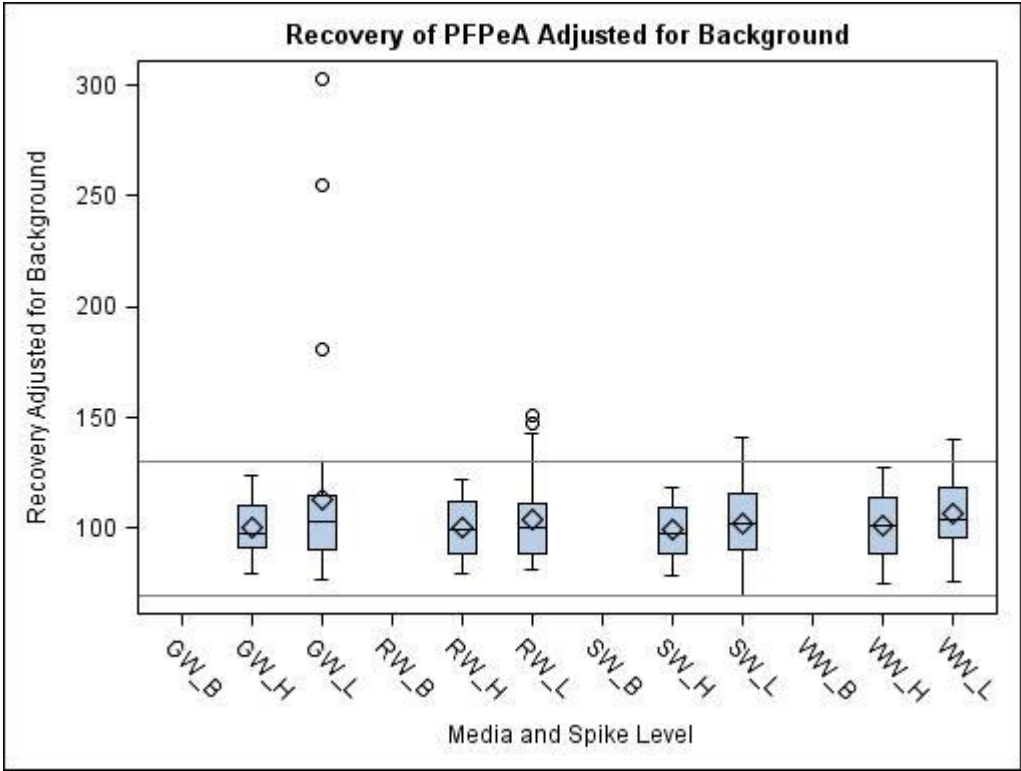


Figure B-22: Measured PFBA

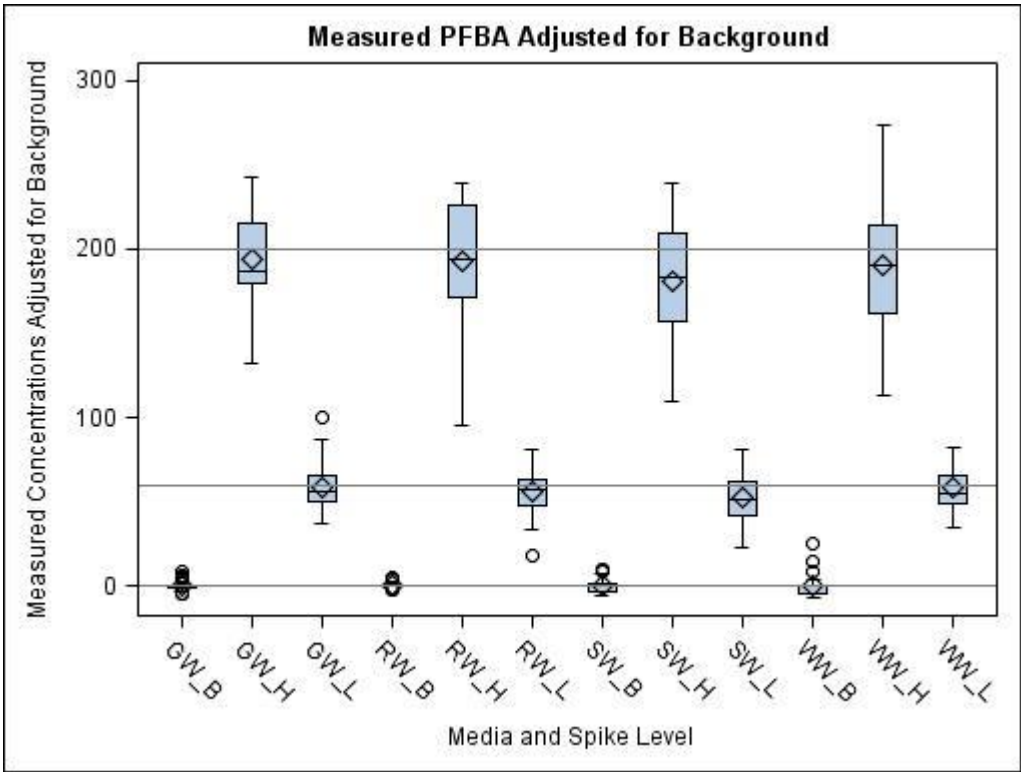


Figure B-23: Recovery of PFBA (standardized y-axis)

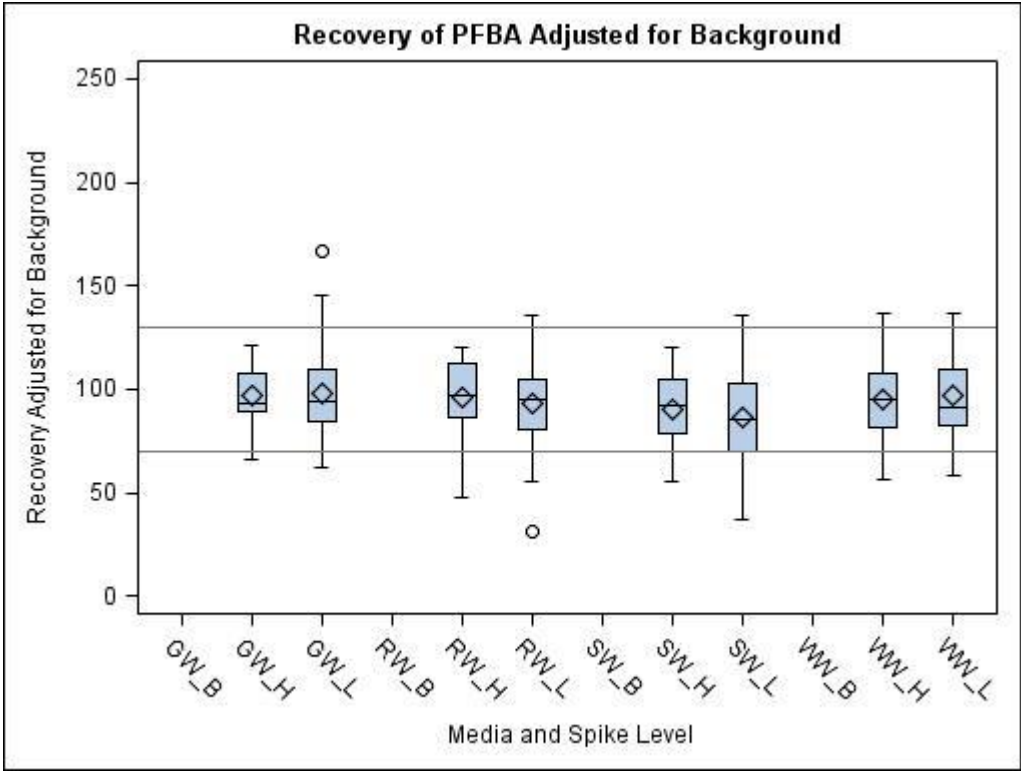


Figure B-24: Measured PFDS

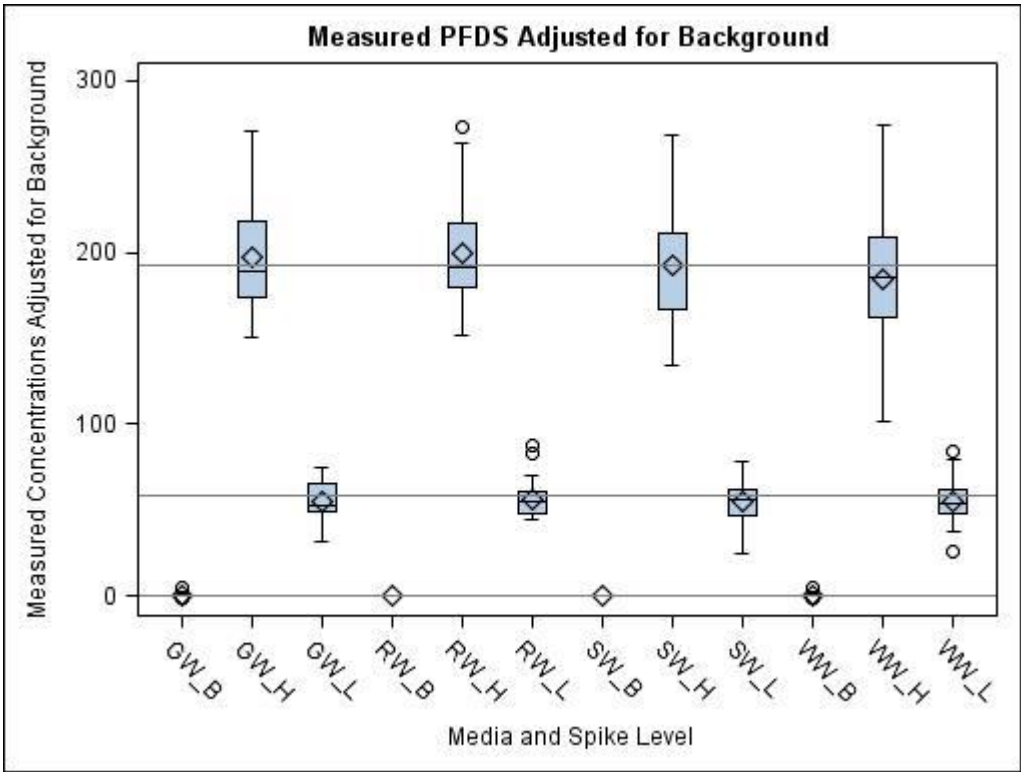


Figure B-25: Recovery of PFDS (standardized y-axis)

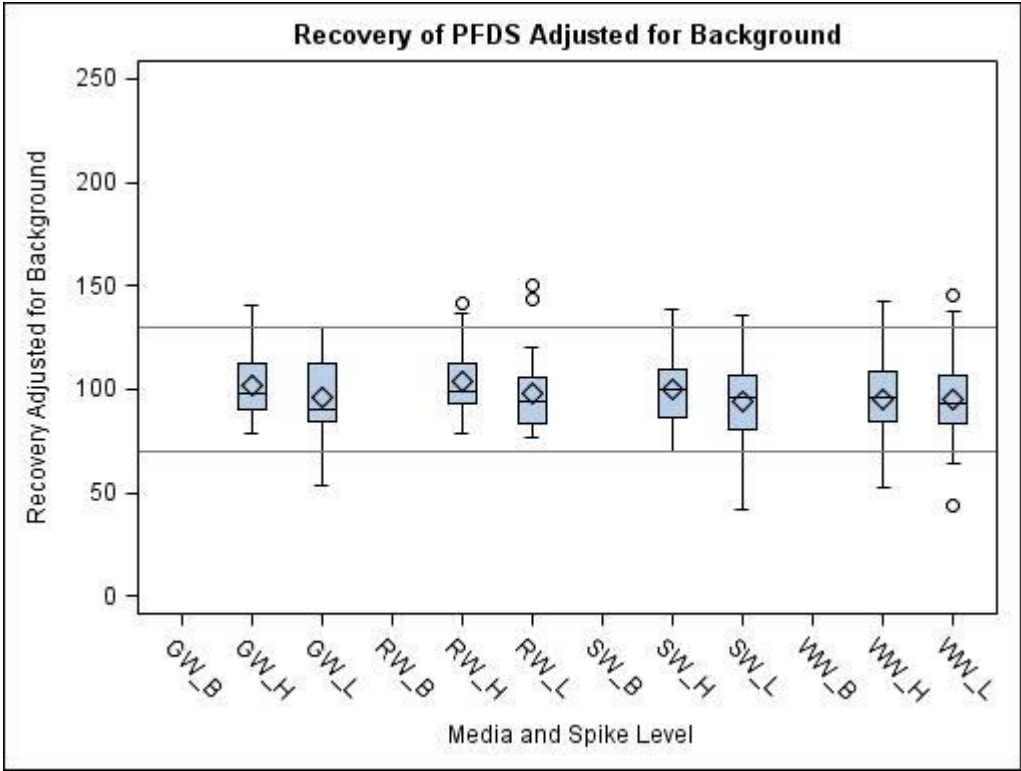


Figure B-26: Measured PFNS

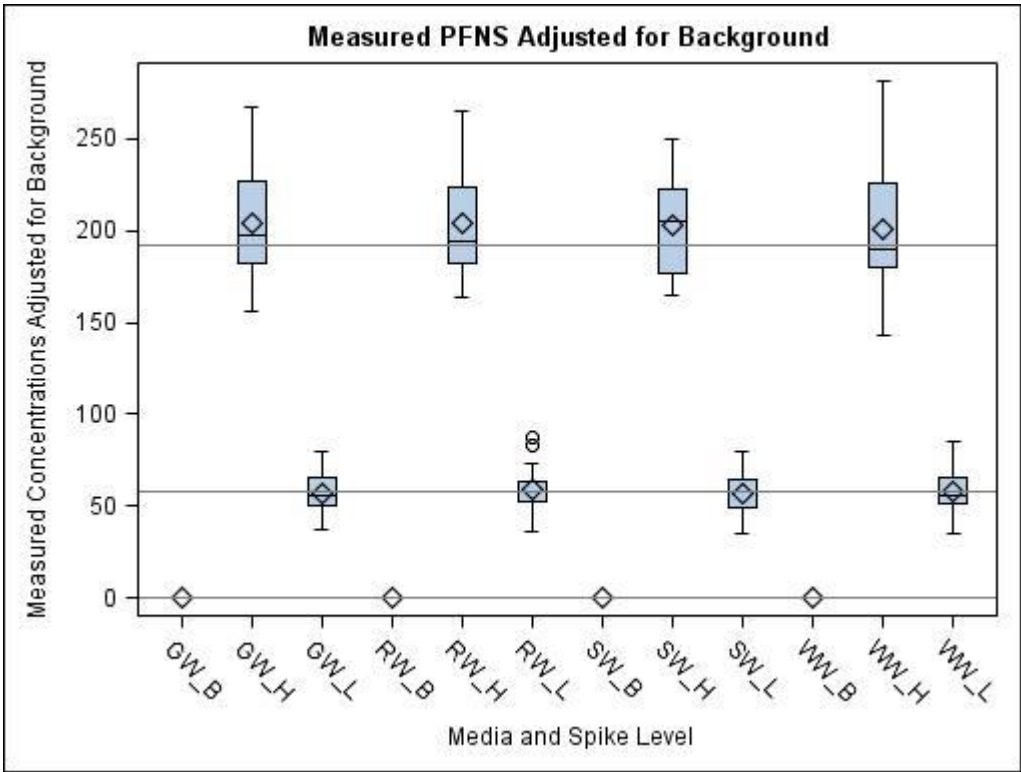


Figure B-27: Recovery of PFNS (standardized y-axis)

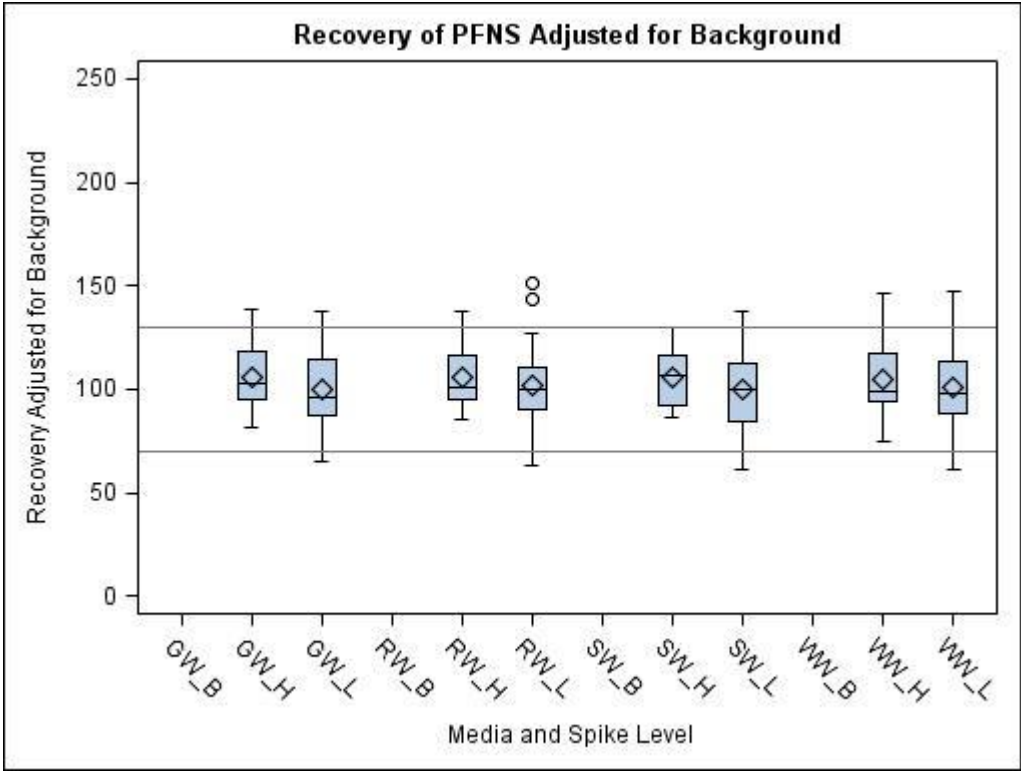


Figure B-28: Measured PFOS

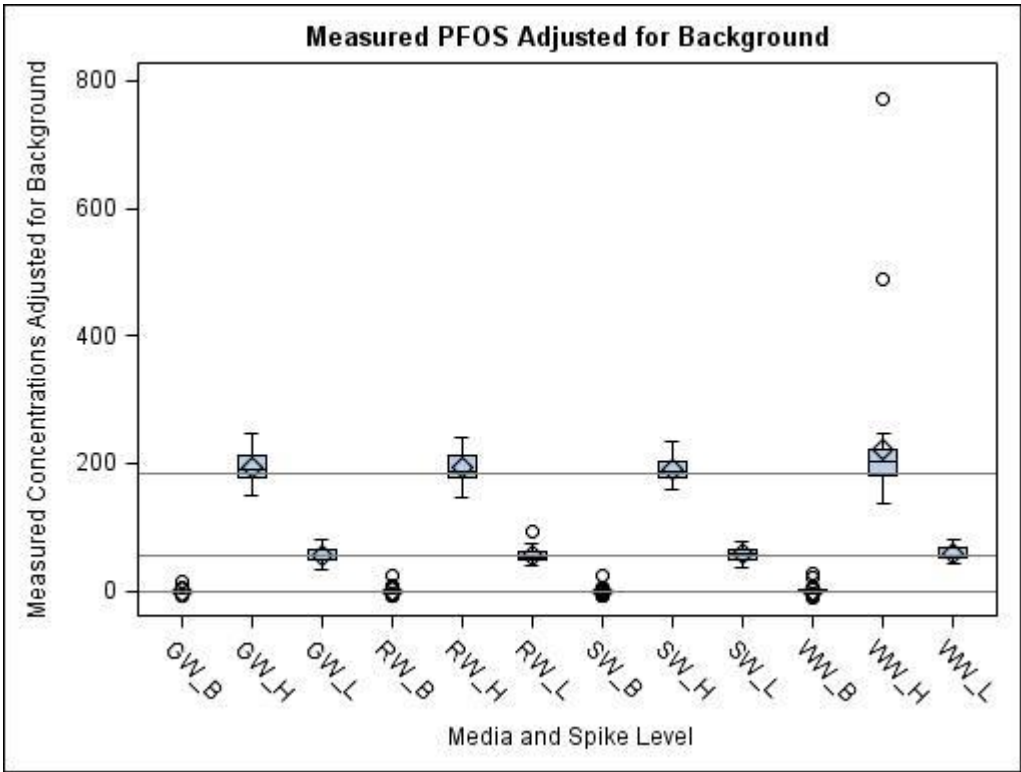


Figure B-29: Recovery of PFOS (standardized y-axis)

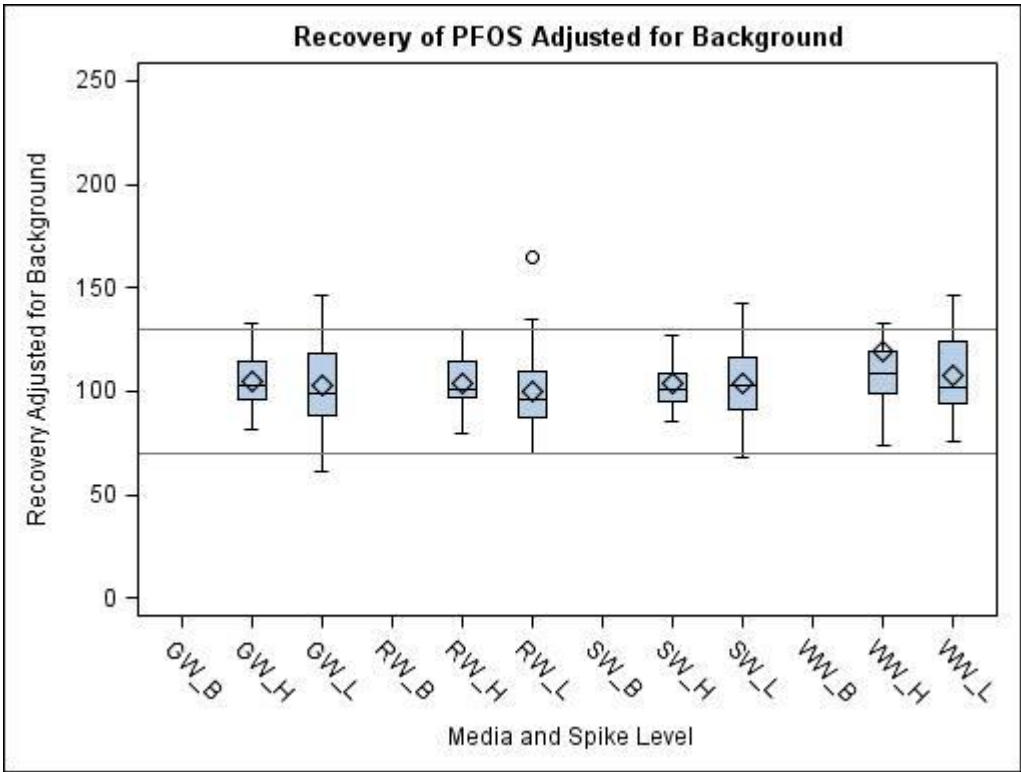


Figure B-30: Recovery of PFOS

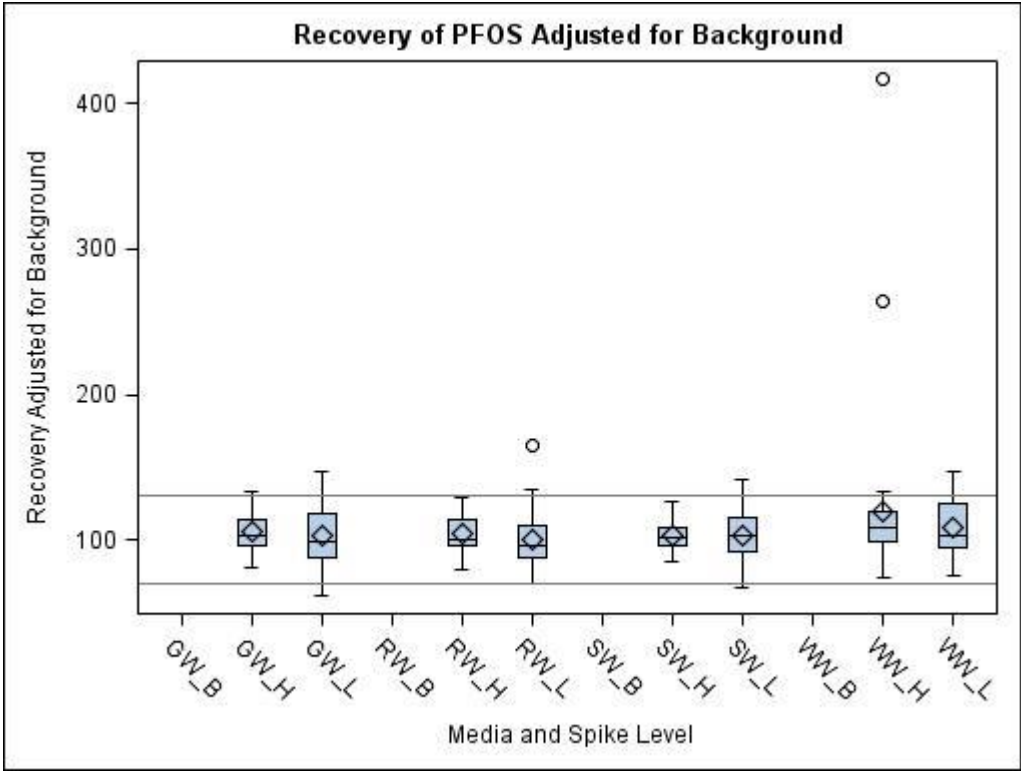


Figure B-31: Measured PFHpS

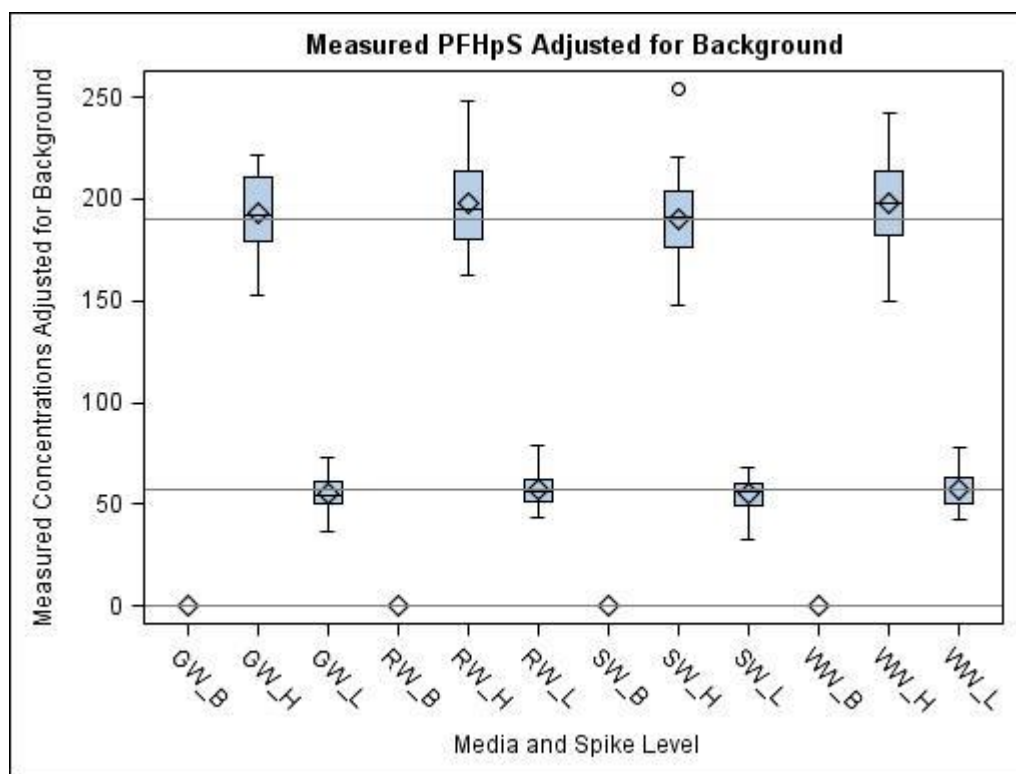


Figure B-32: Recovery of PFHpS (standardized y-axis)

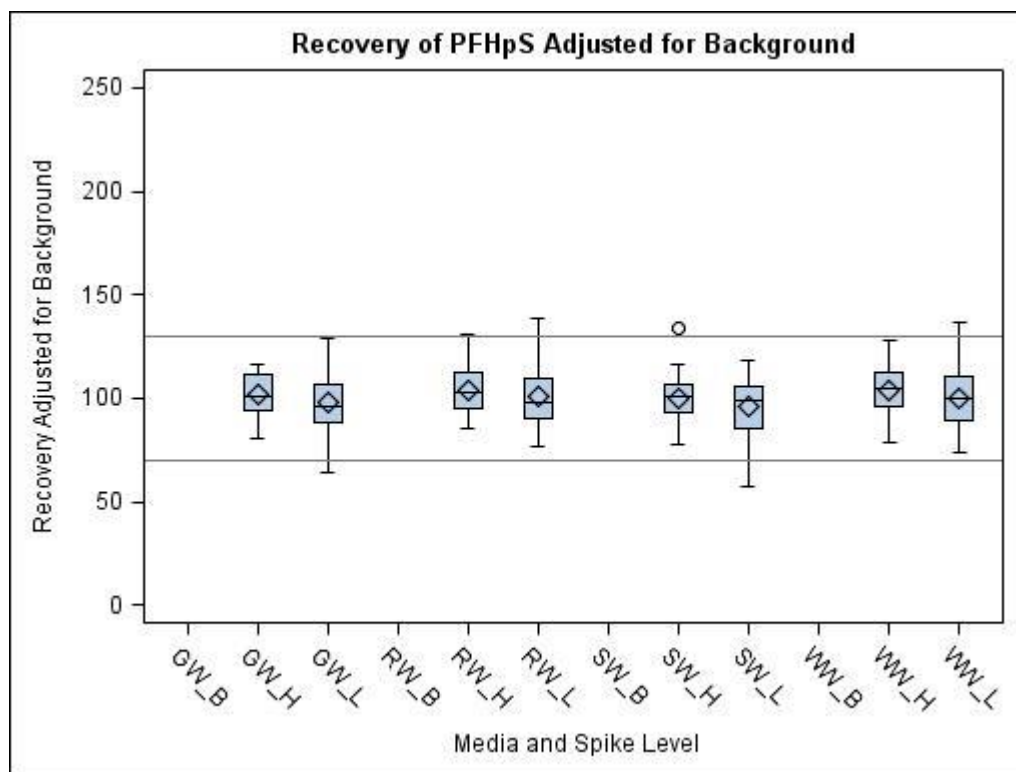


Figure B-33: Measured PFHxS

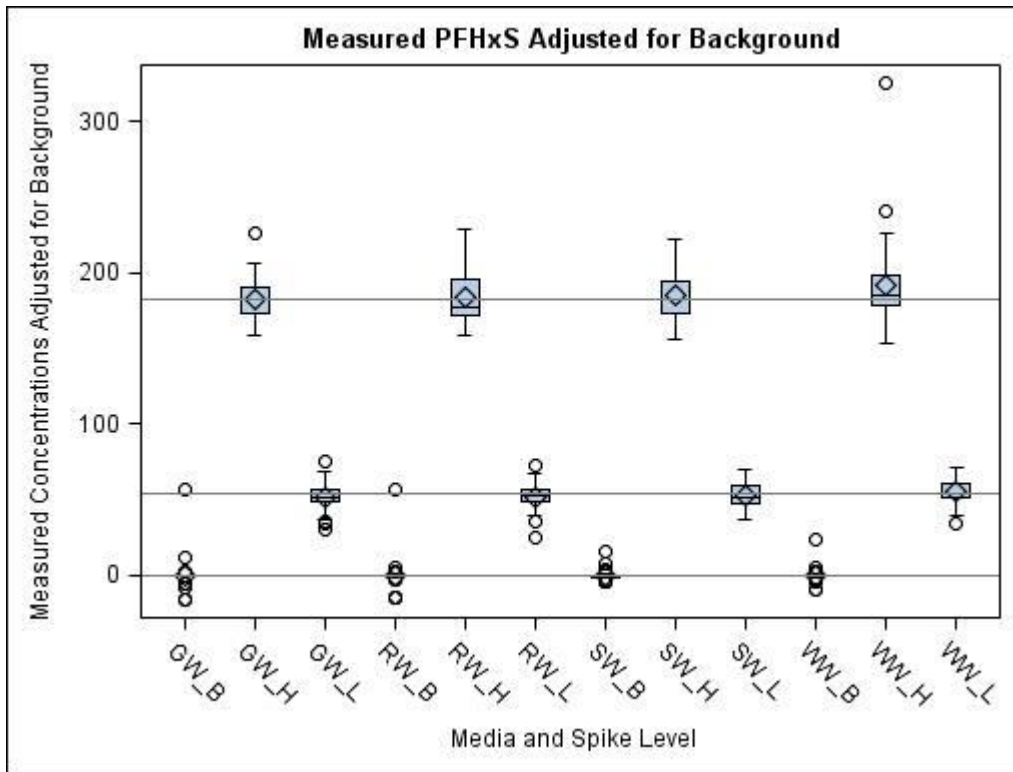


Figure B-34: Recovery of PFHxS (standardized y-axis)

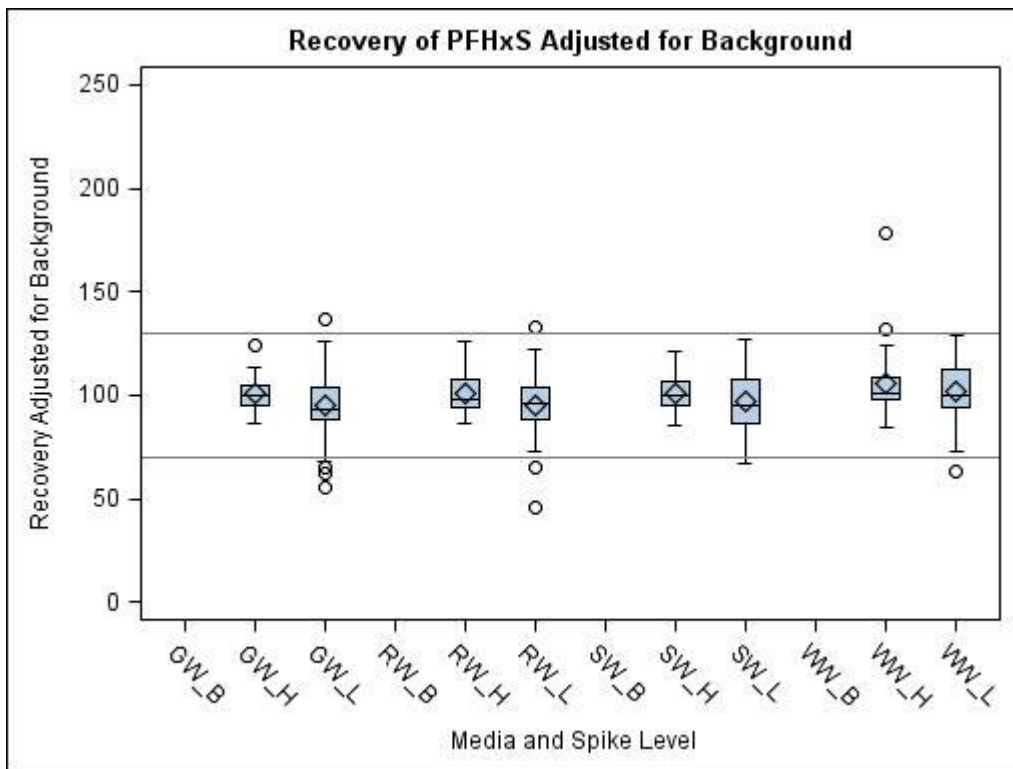


Figure B-35: Measured PFPeS

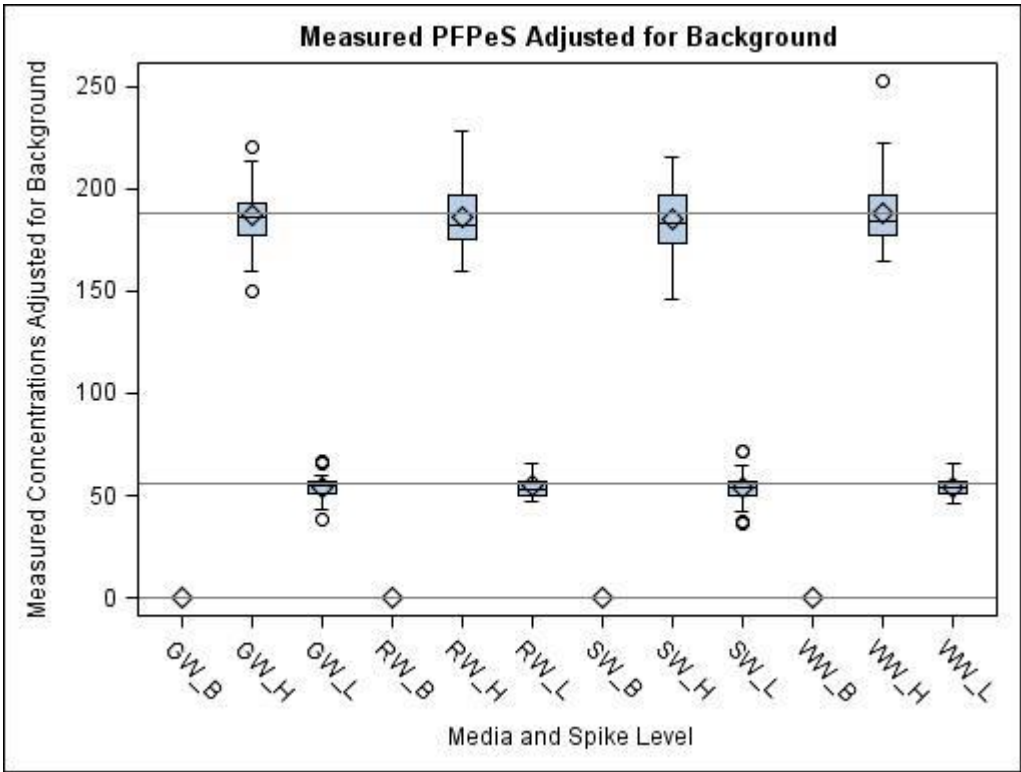


Figure B-36: Recovery of PFPeS (standardized y-axis)

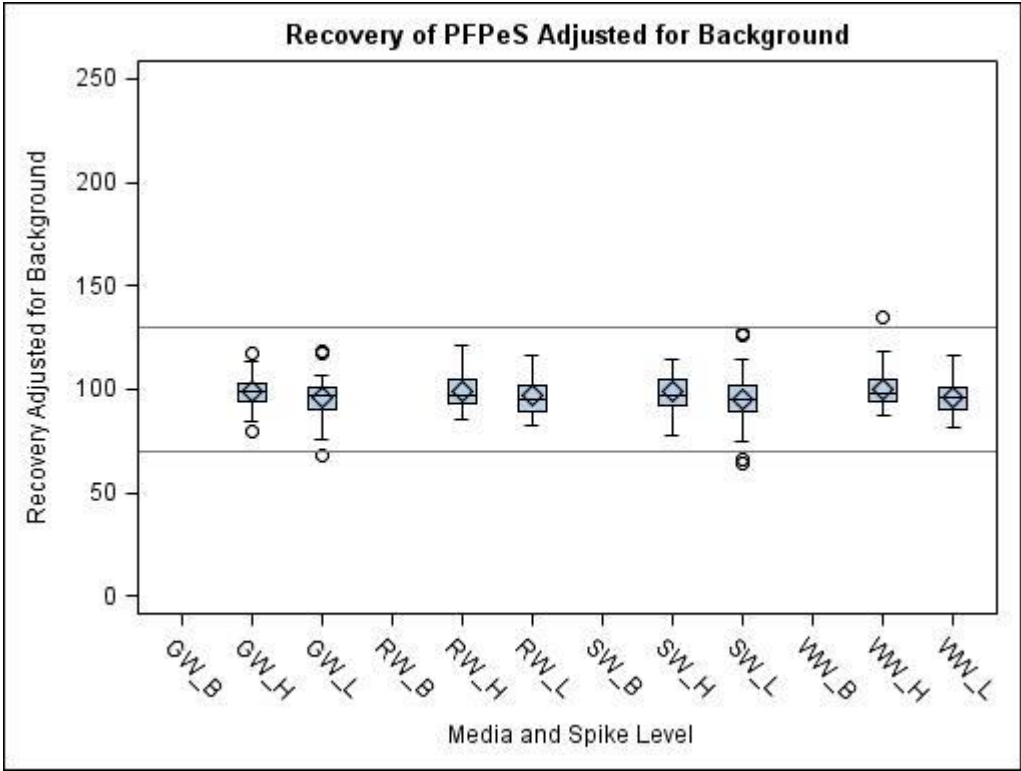


Figure B-37: Measured PFBS

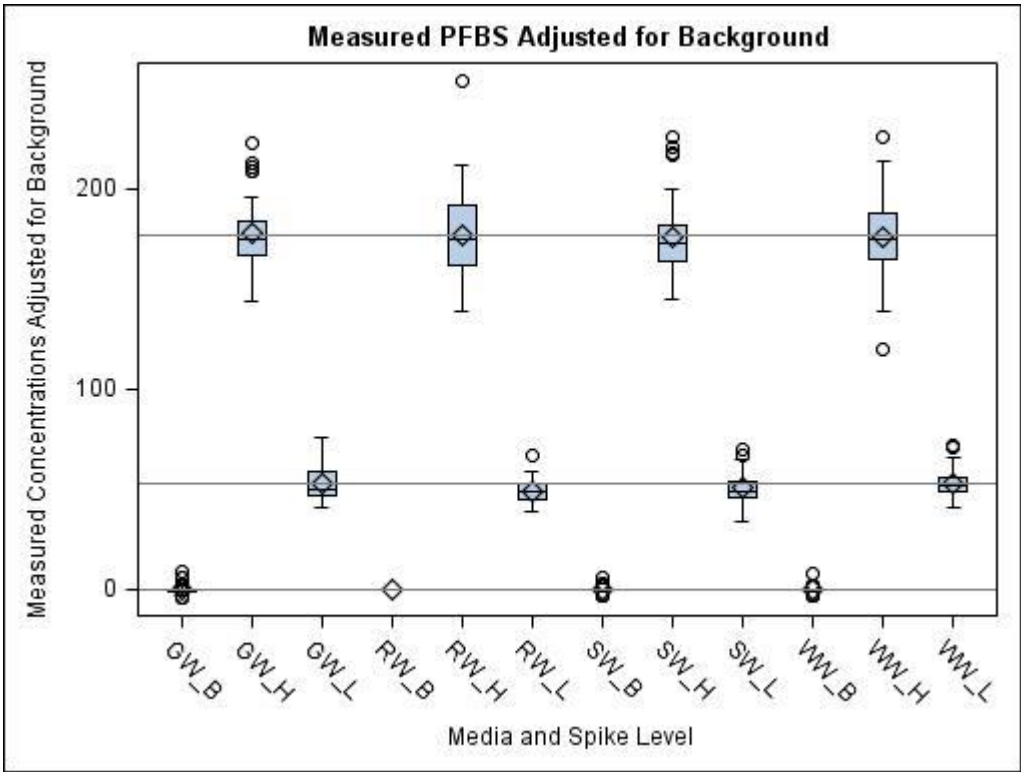


Figure B-38: Recovery of PFBS (standardized y-axis)

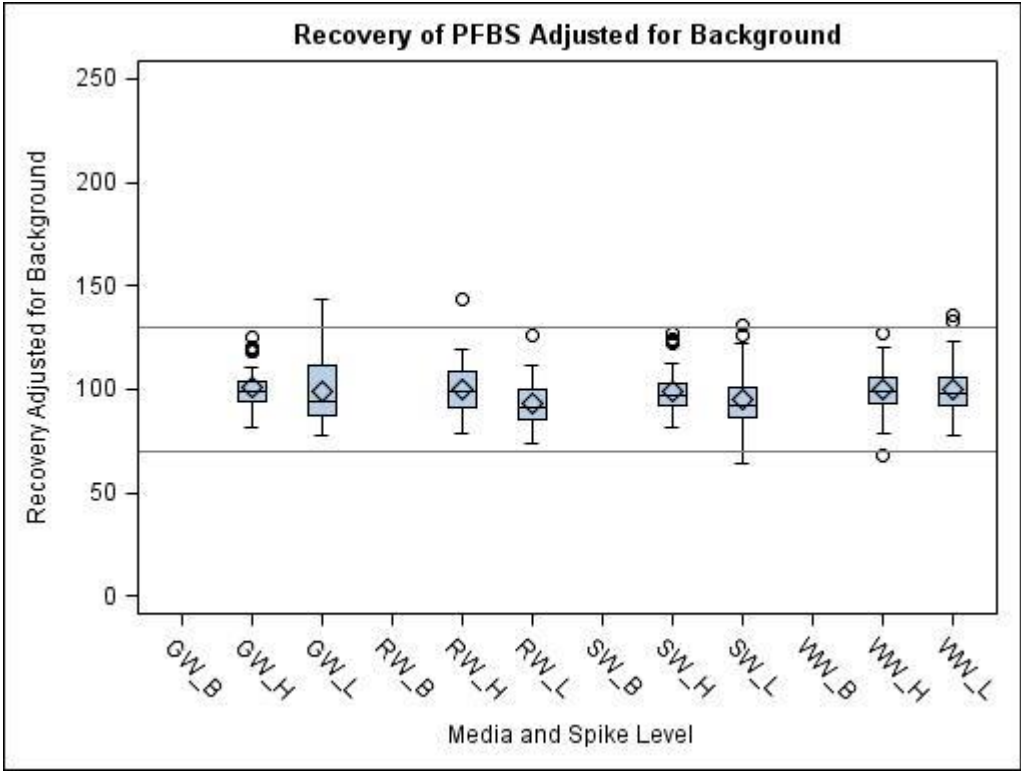


Figure B-39: Measured PFOSA

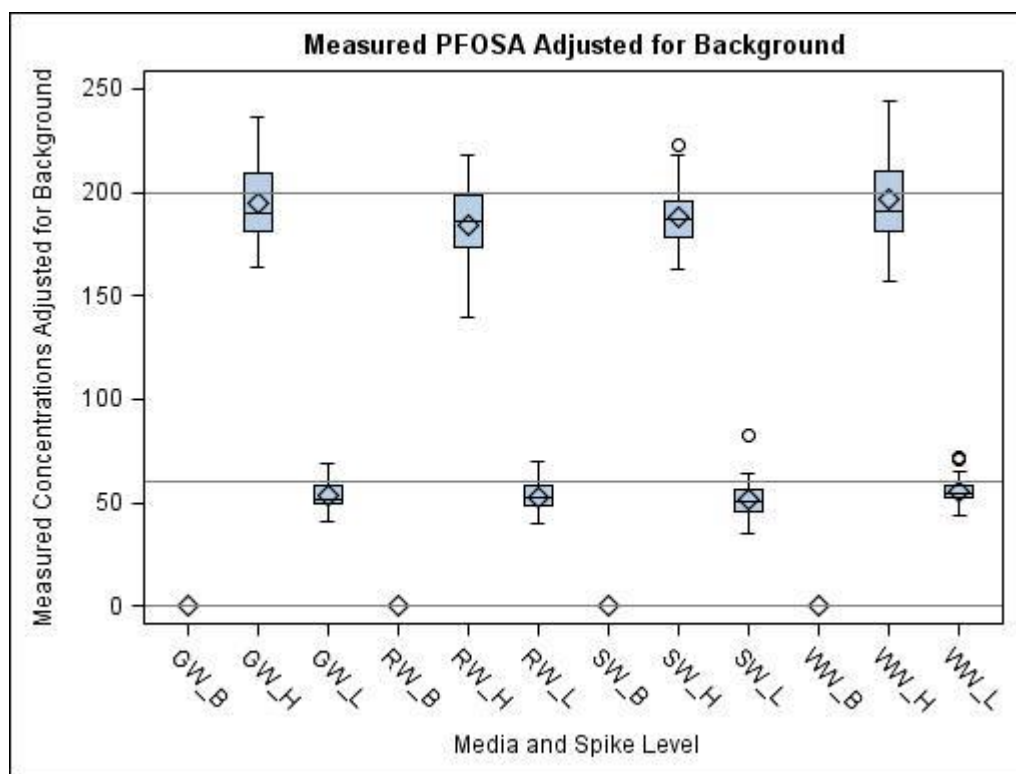


Figure B-40: Recovery of PFOSA (standardized y-axis)

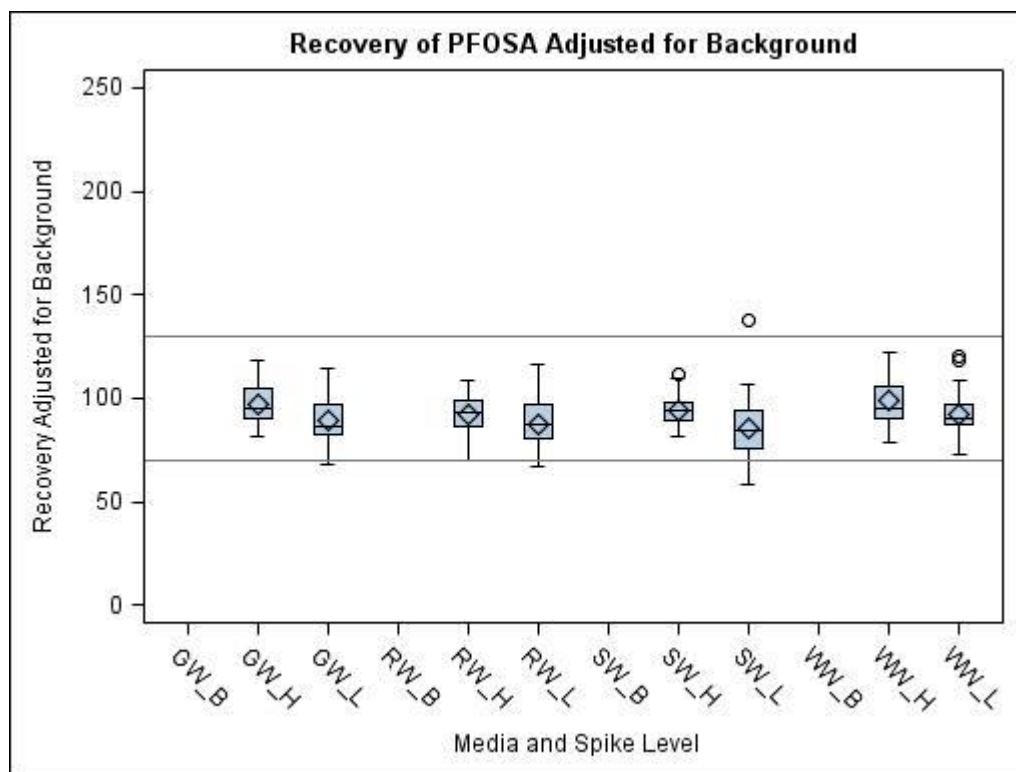


Figure B-41: Measured FtS 8:2

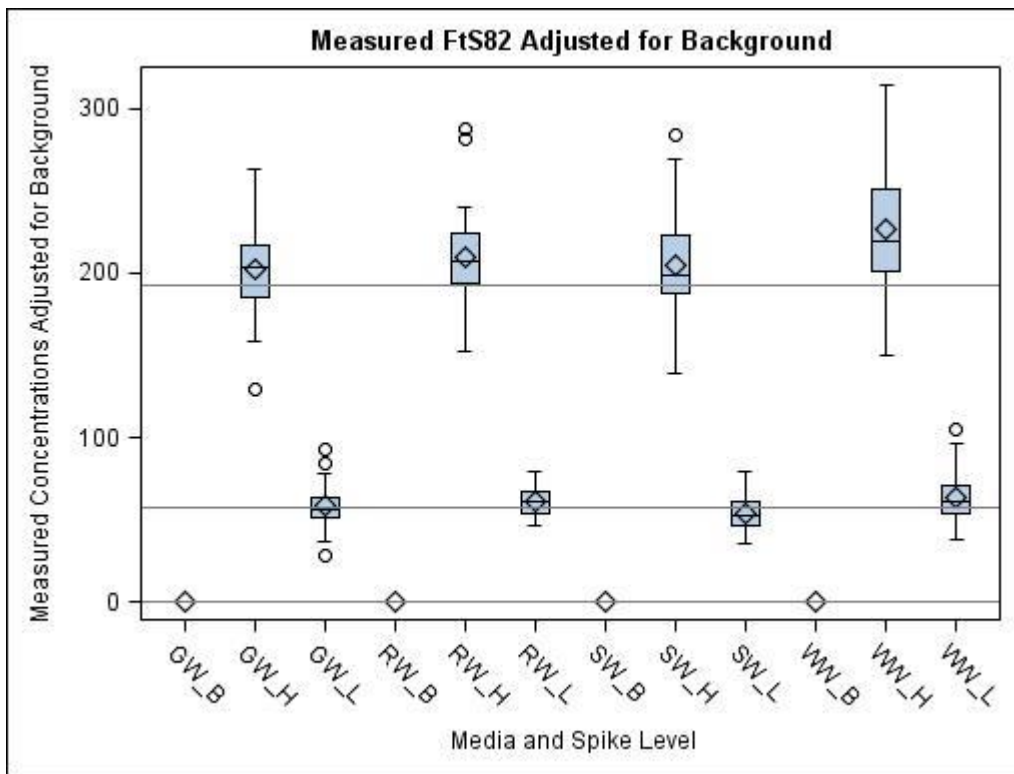


Figure B-42: Recovery of FtS 8:2 (standardized y-axis)

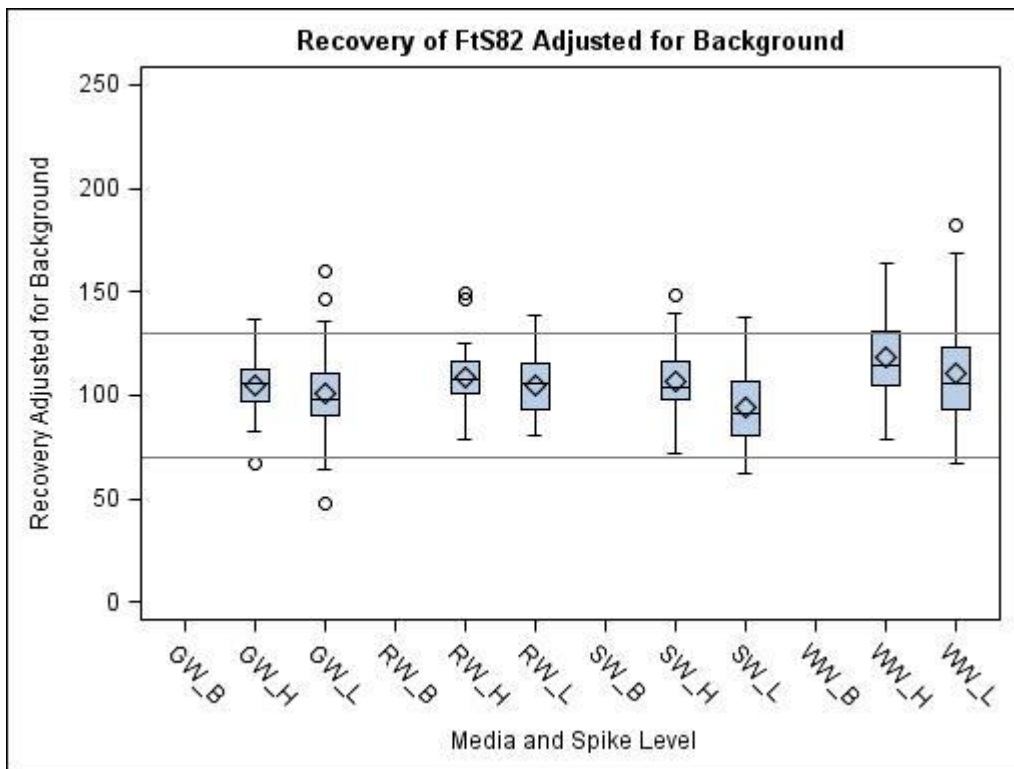


Figure B-43: Measured FtS 6:2

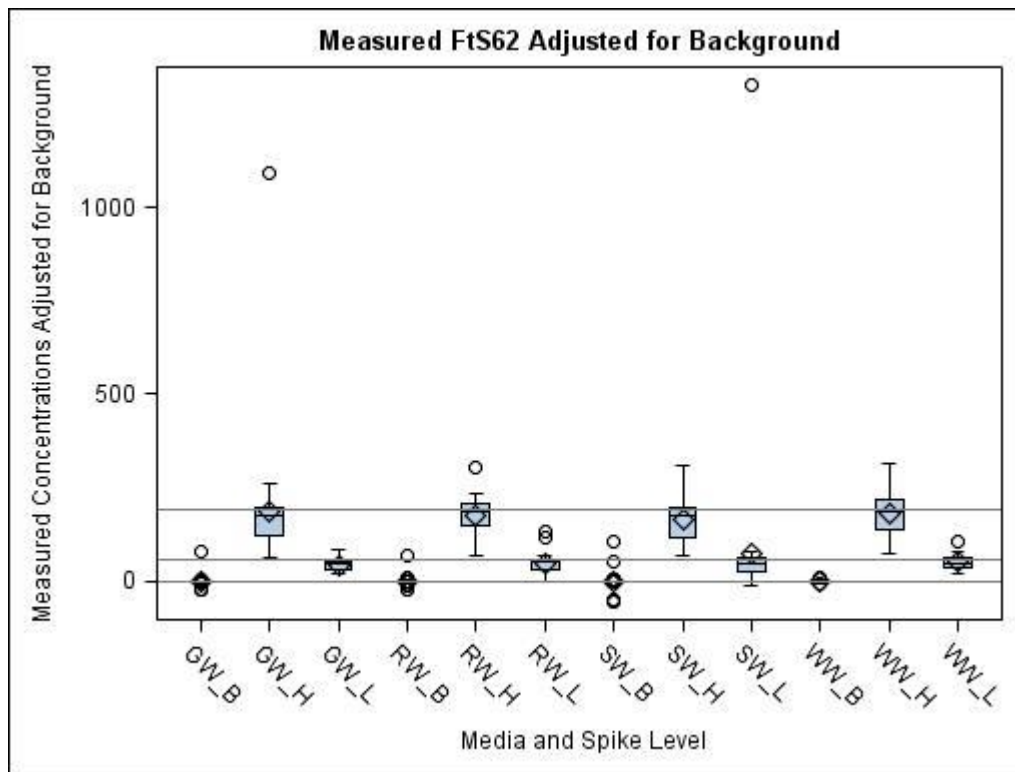


Figure B-44: Recovery of FtS 6:2 (standardized y-axis)

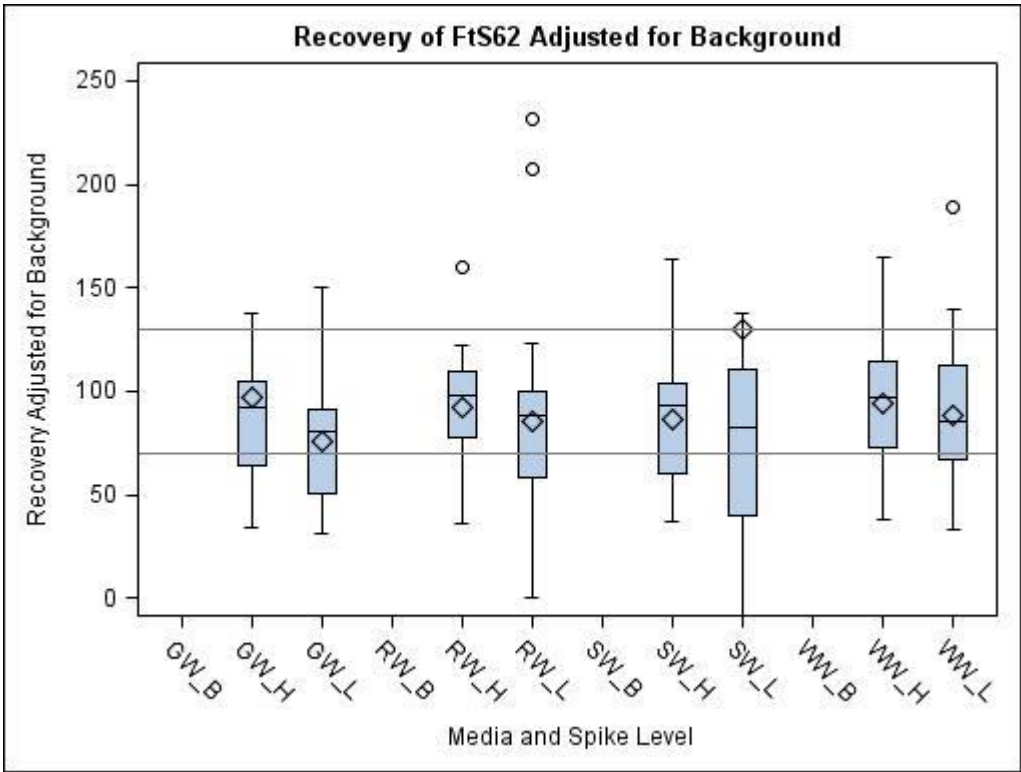


Figure B-45: Recovery of FtS 6:2

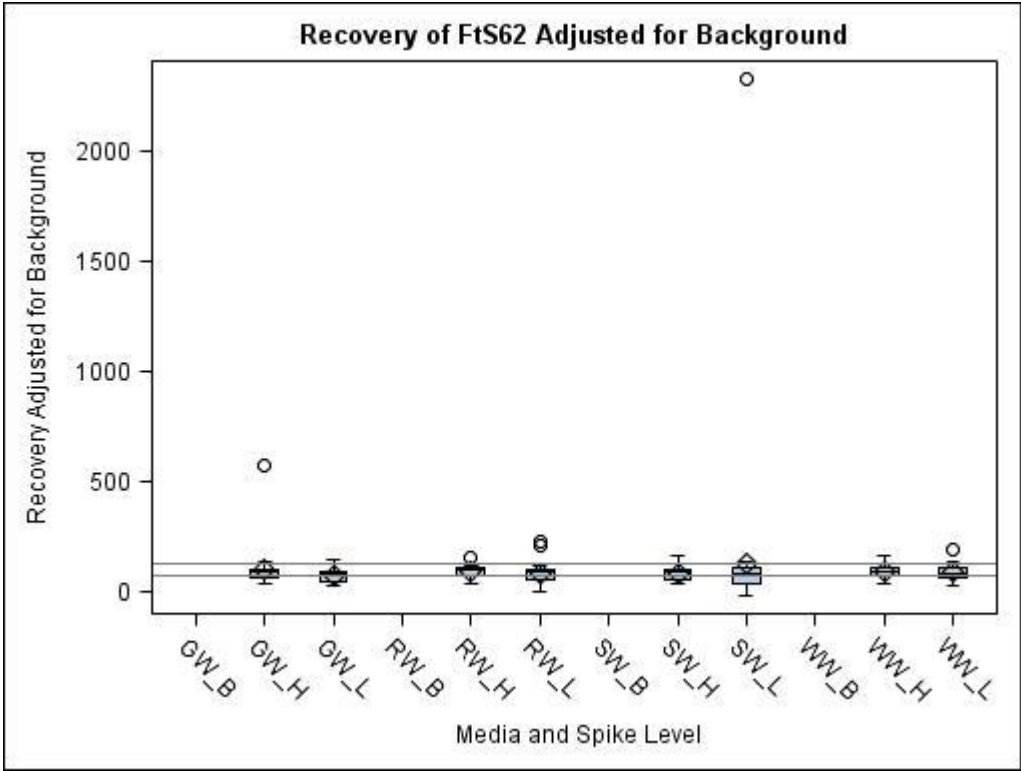


Figure B-48: Measured NEtFOSAA

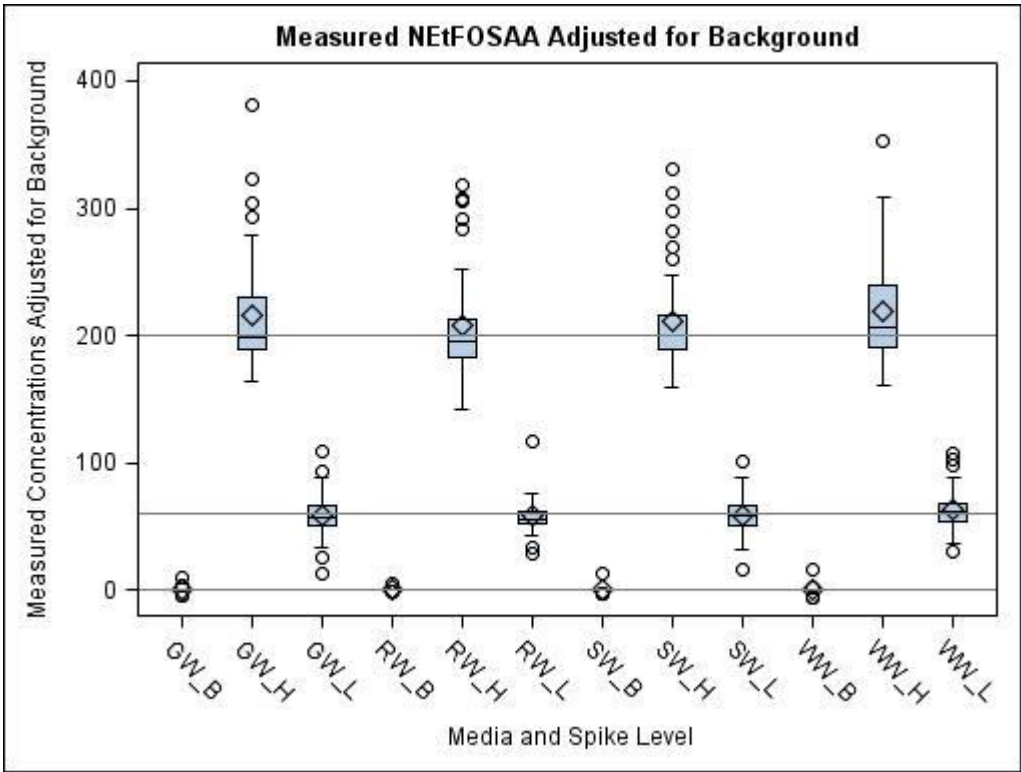


Figure B-49: Recovery of NEtFOSAA (standardized y-axis)

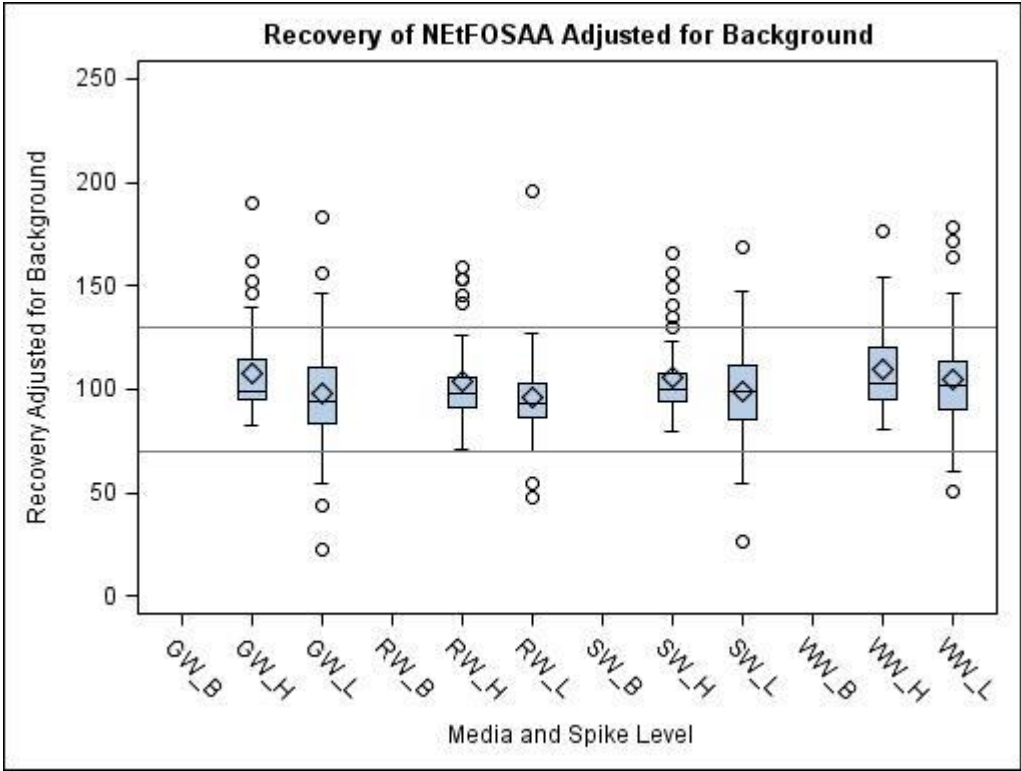


Figure B-50: Measured NMeFOSAA

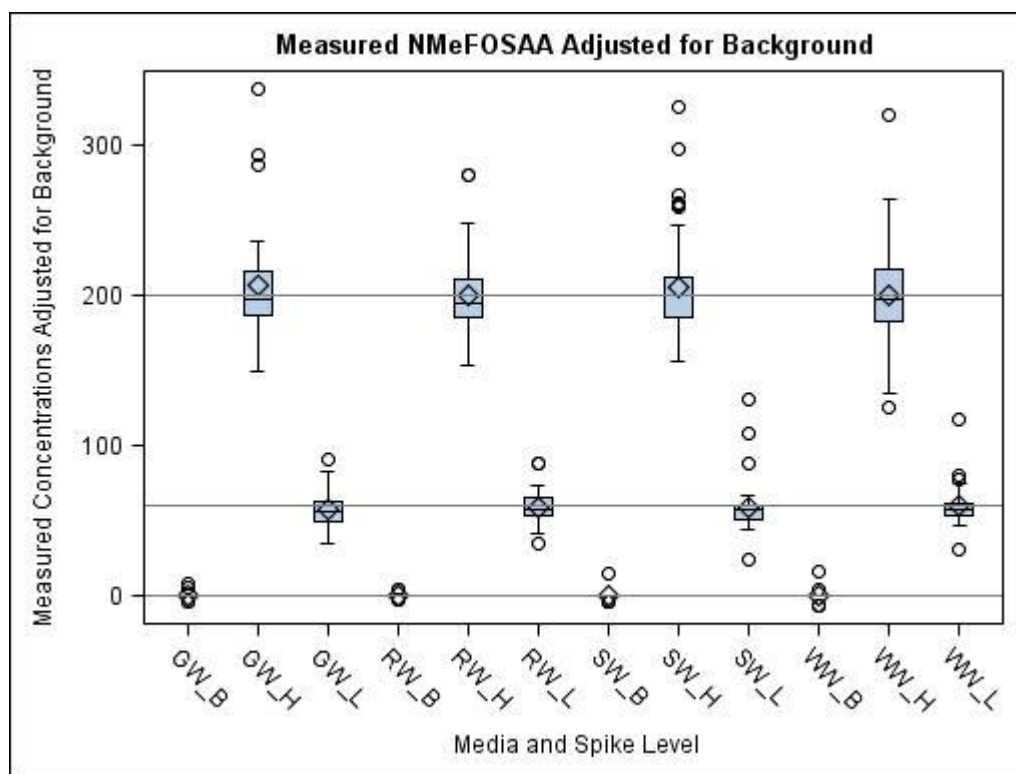


Figure B-51: Recovery of NMeFOSAA (standardized y-axis)

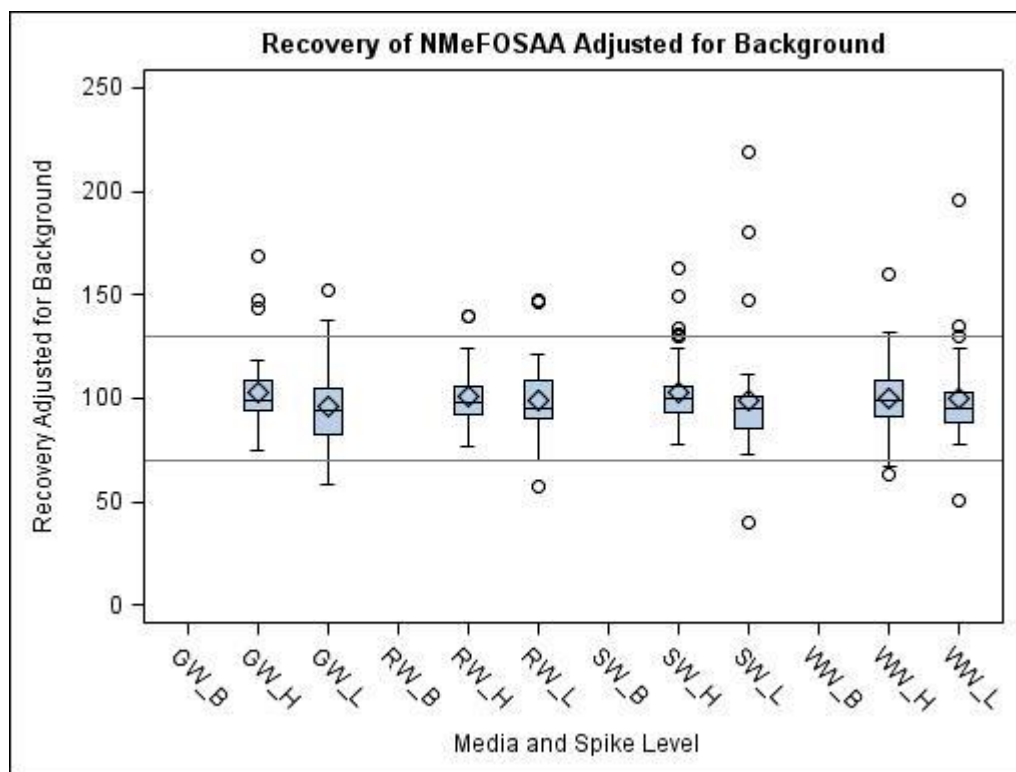


Figure B-52: Measured M2PFTeDA

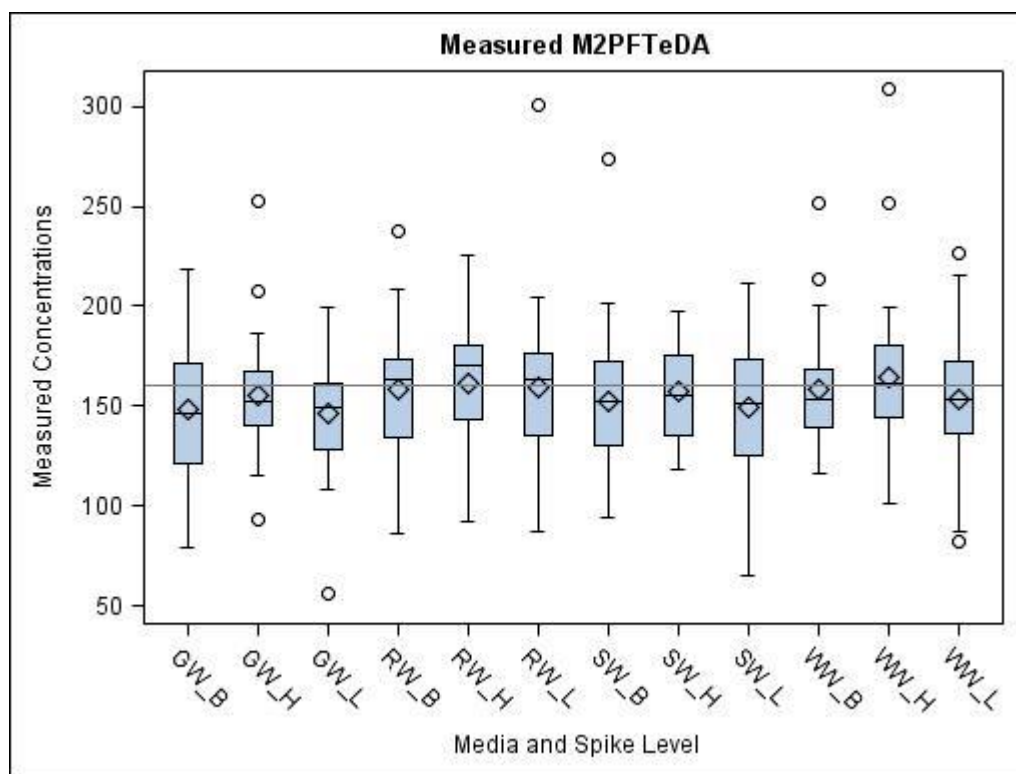


Figure B-53: Recovery of M2PFTeDA (standardized y-axis)

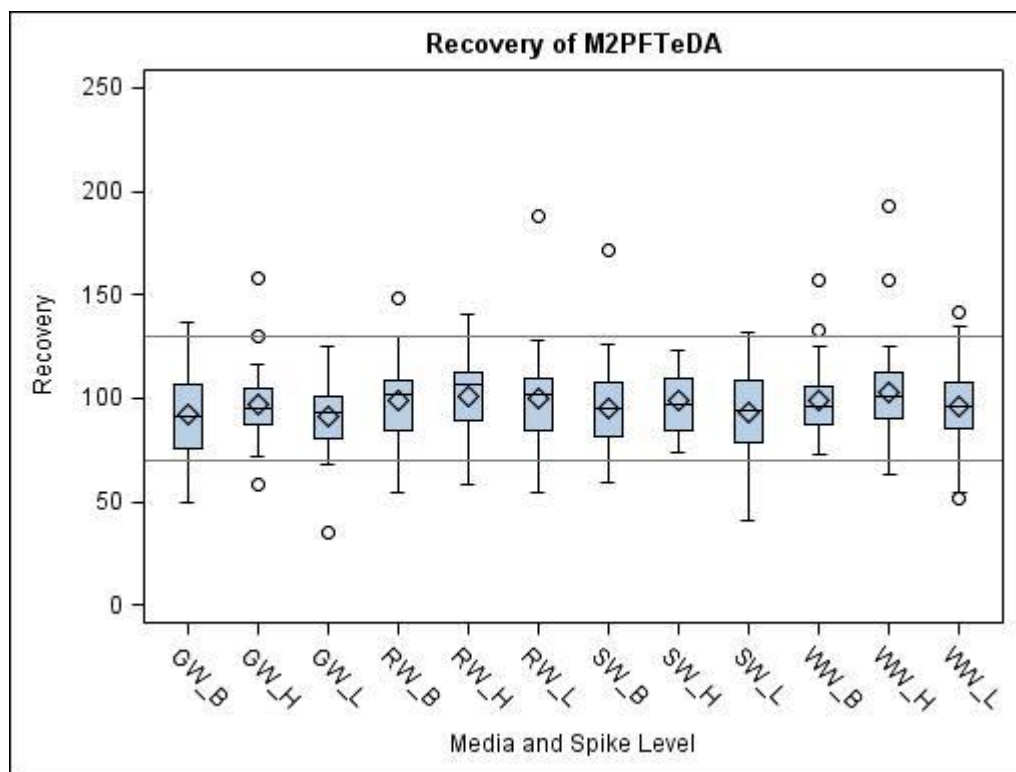


Figure B-54: Measured MPFDoA

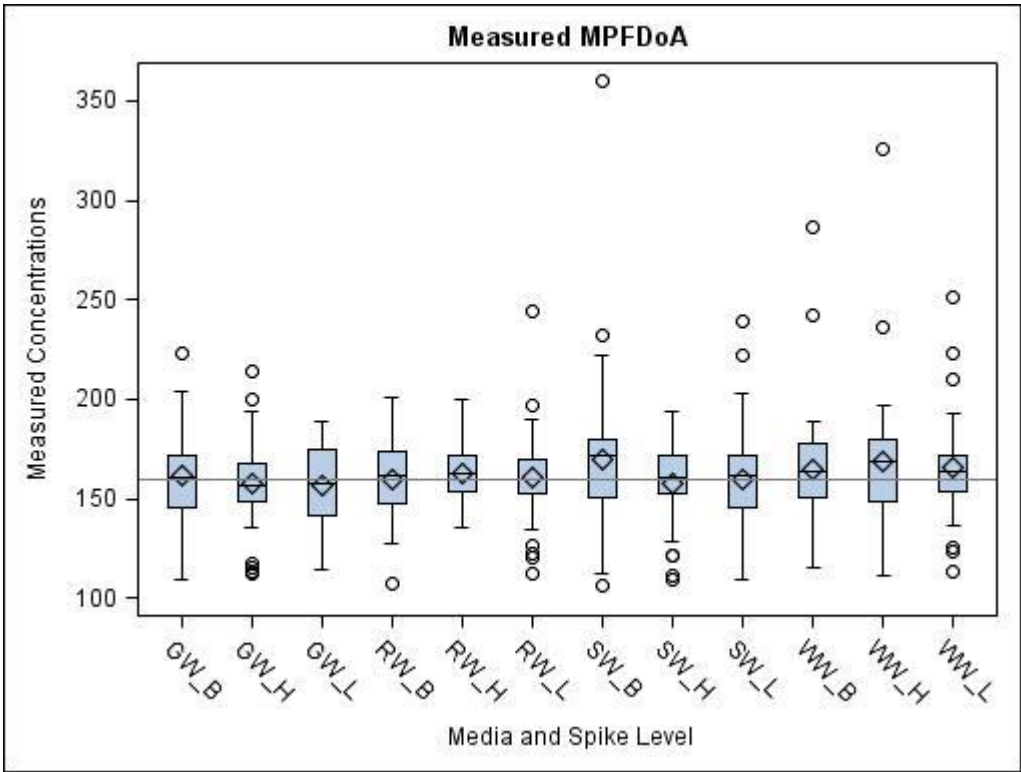


Figure B-55: Recovery of MPFDoA (standardized y-axis)

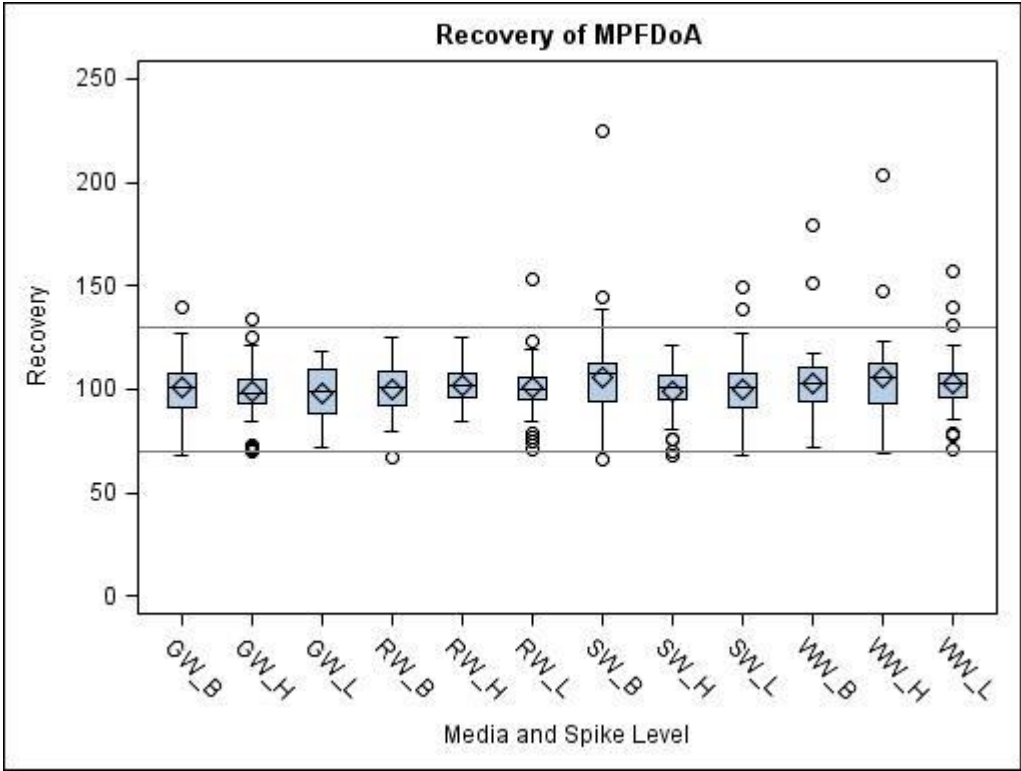


Figure B-56: Measured M7PFUdA

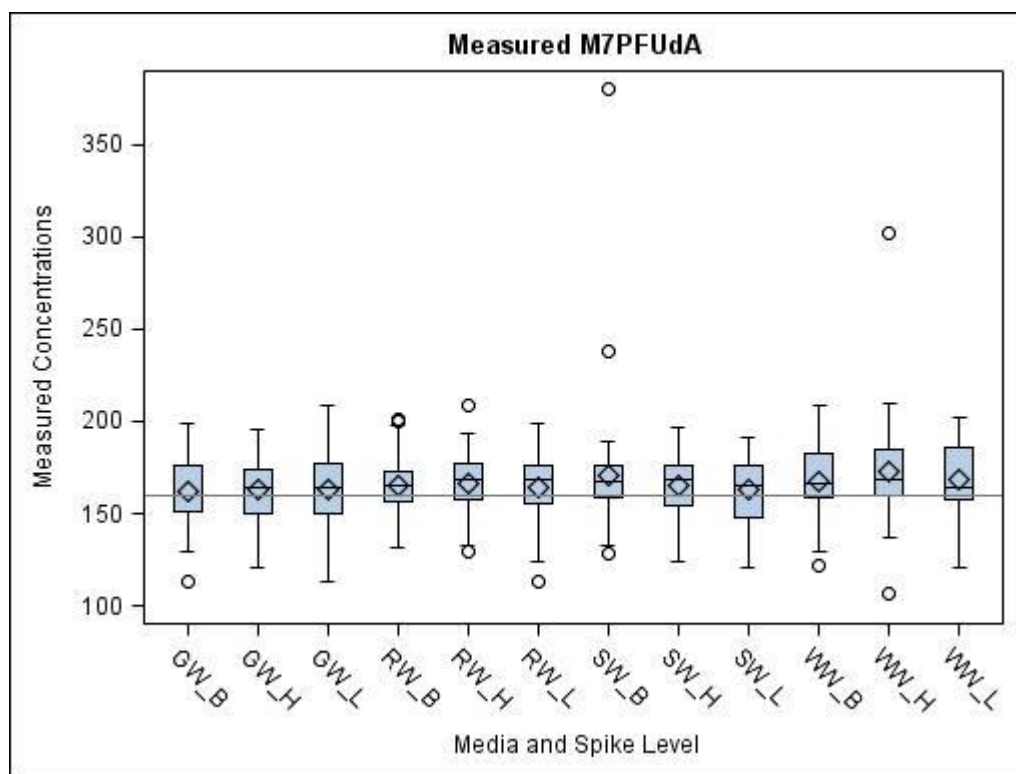


Figure B-57: Recovery of M7PFUdA (standardized y-axis)

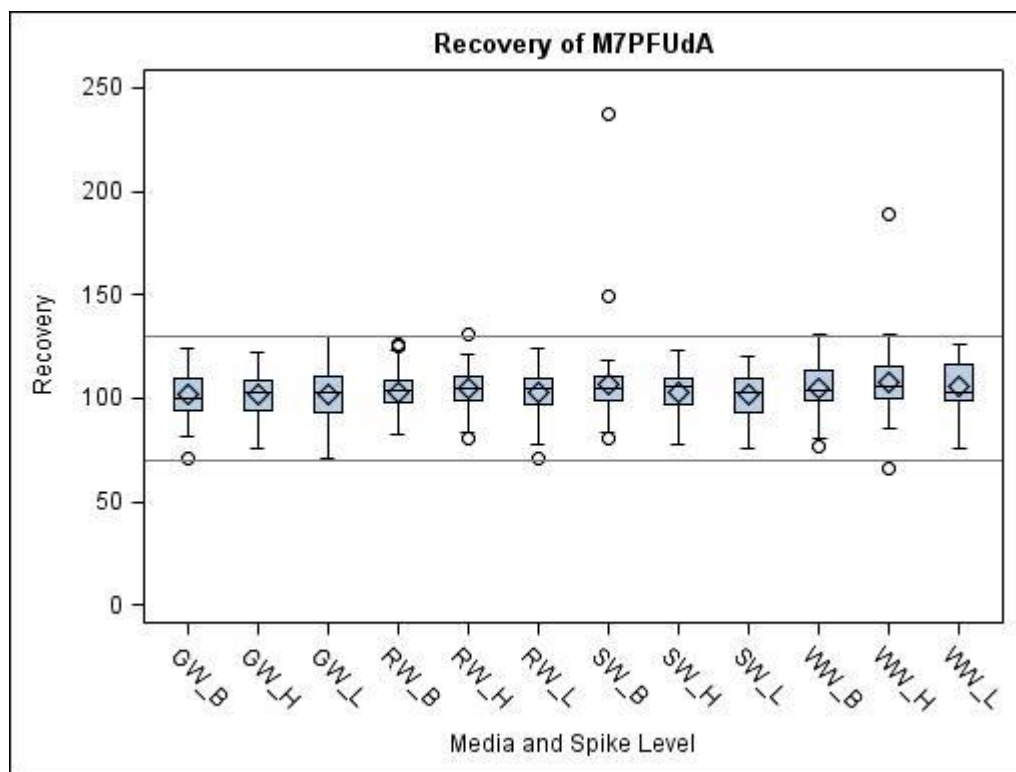


Figure B-58: Measured M6PFDA

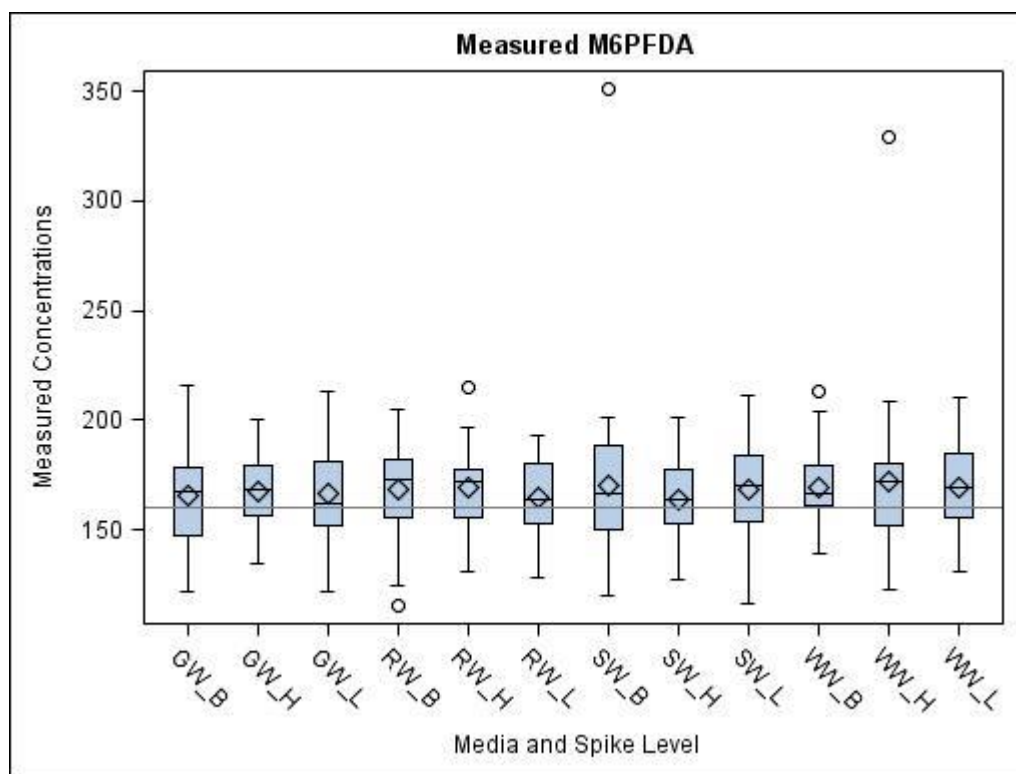


Figure B-59: Recovery of M6PFDA (standardized y-axis)

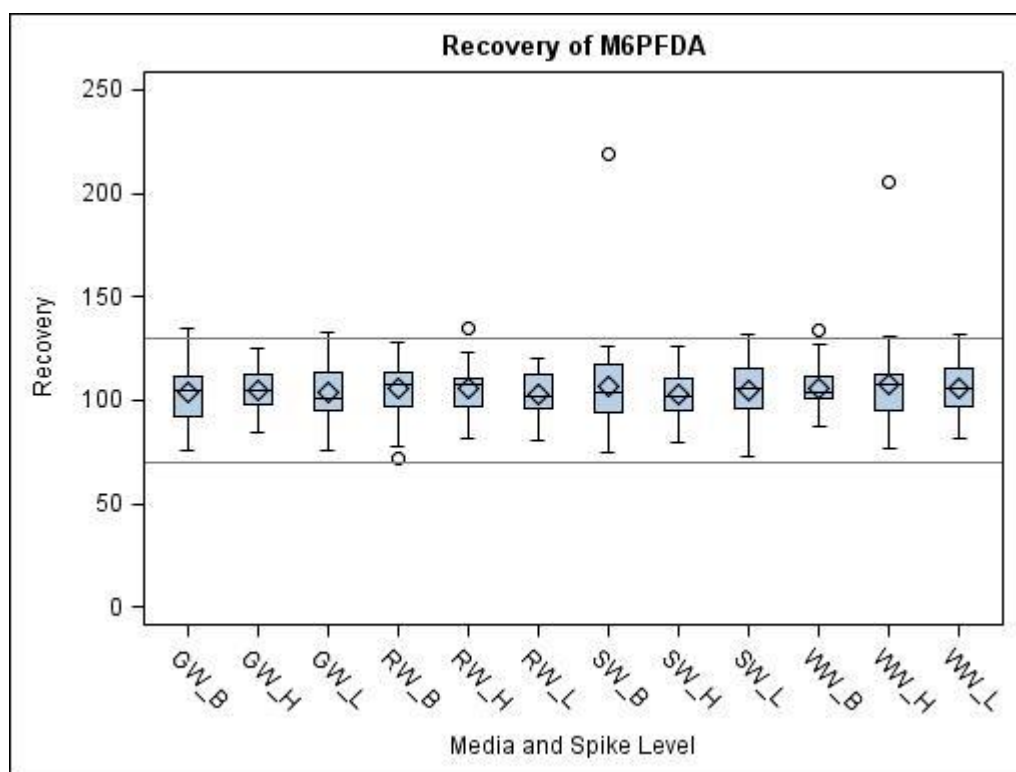


Figure B-60: Measured M9PFNA

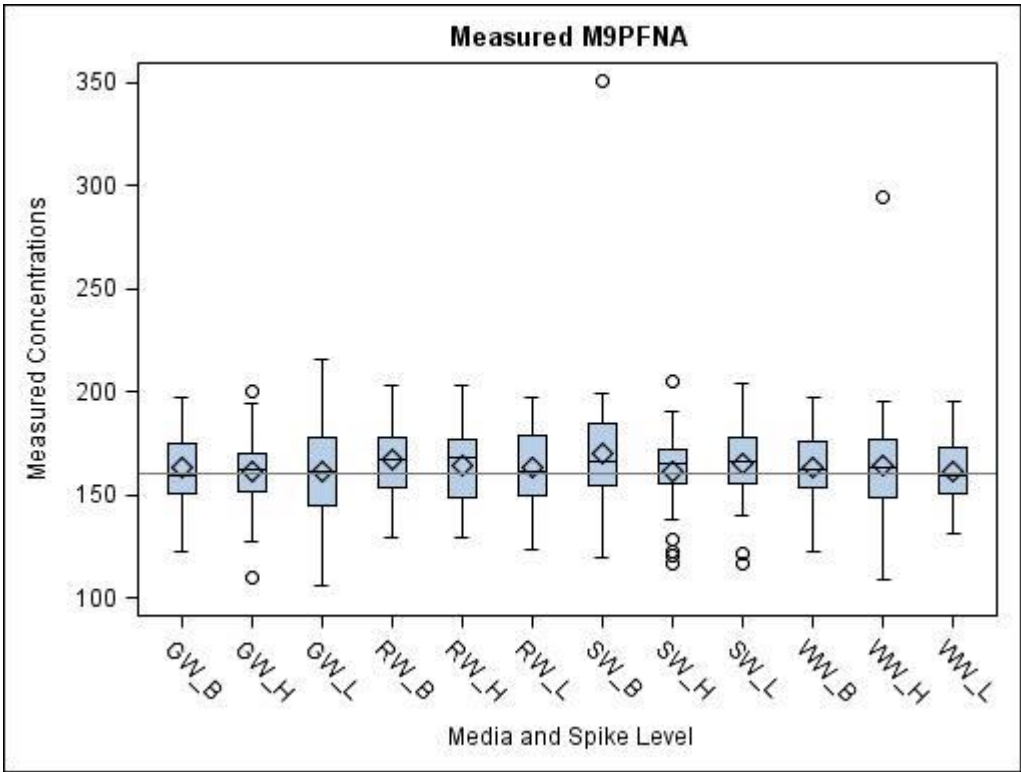


Figure B-61: Recovery of M9PFNA (standardized y-axis)

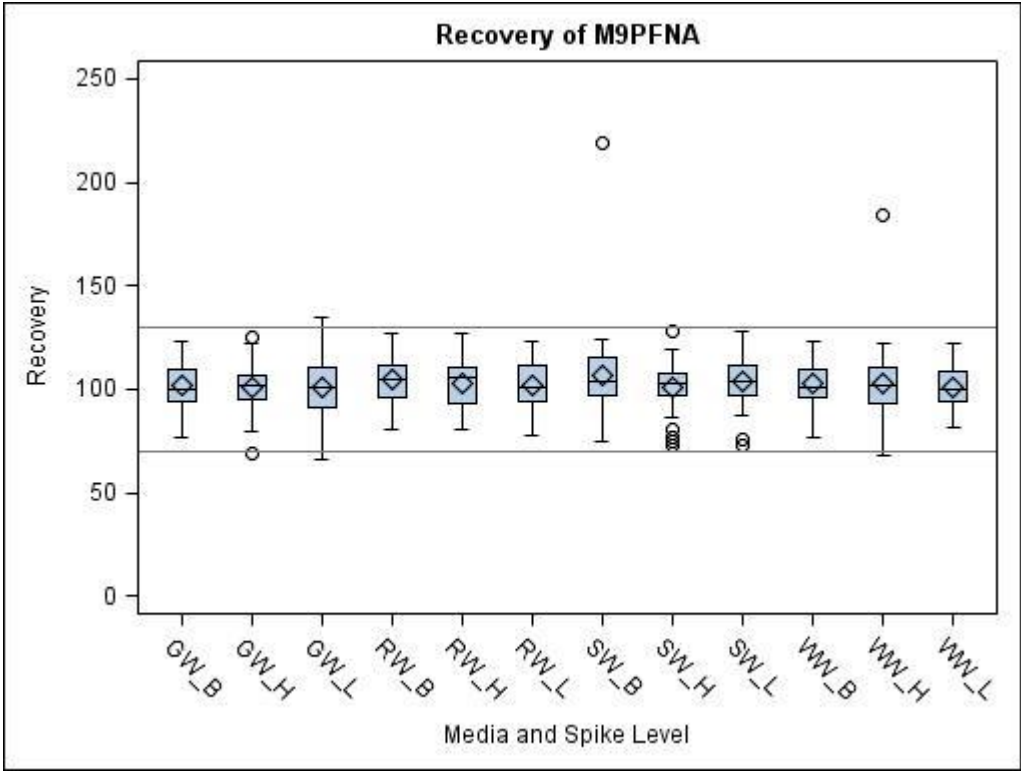


Figure B-62: Measured M8PFOA

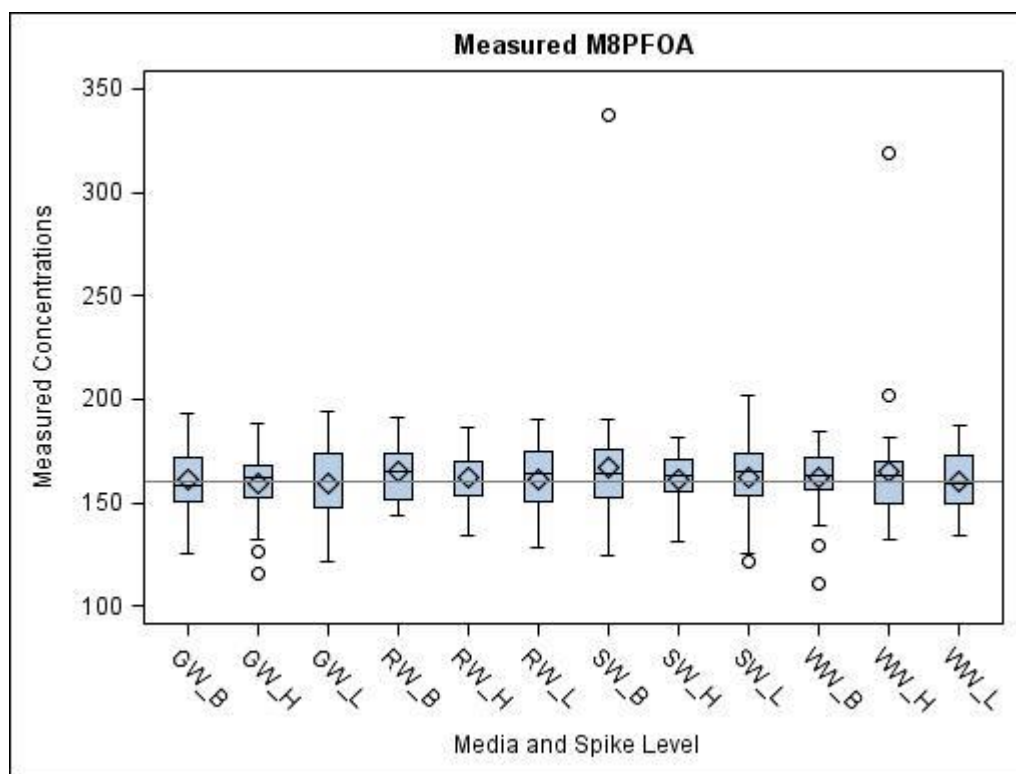


Figure B-63: Recovery of M8PFOA (standardized y-axis)

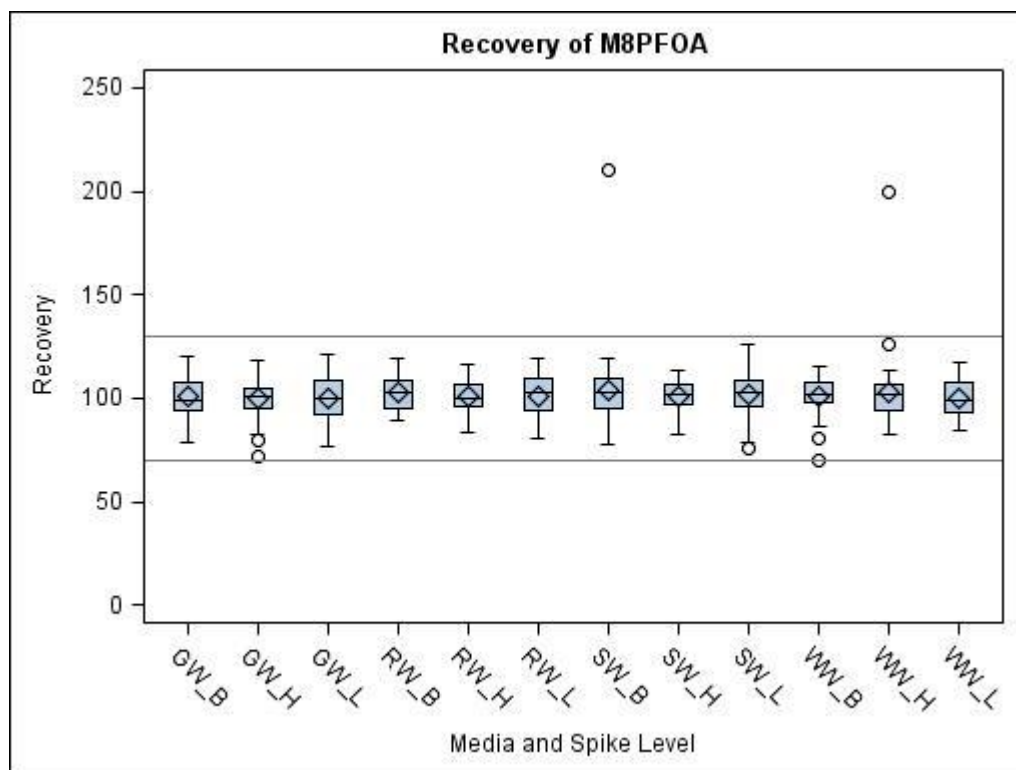


Figure B-64: Measured M4PFHpA

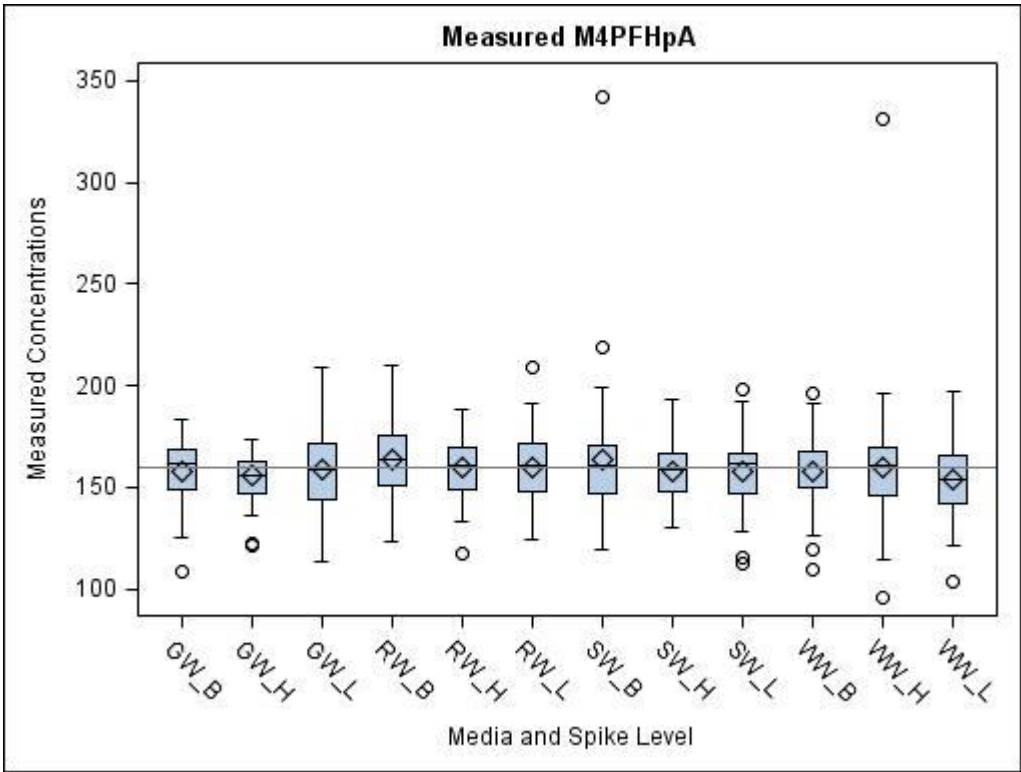


Figure B-65: Recovery of M4PFHpA (standardized y-axis)

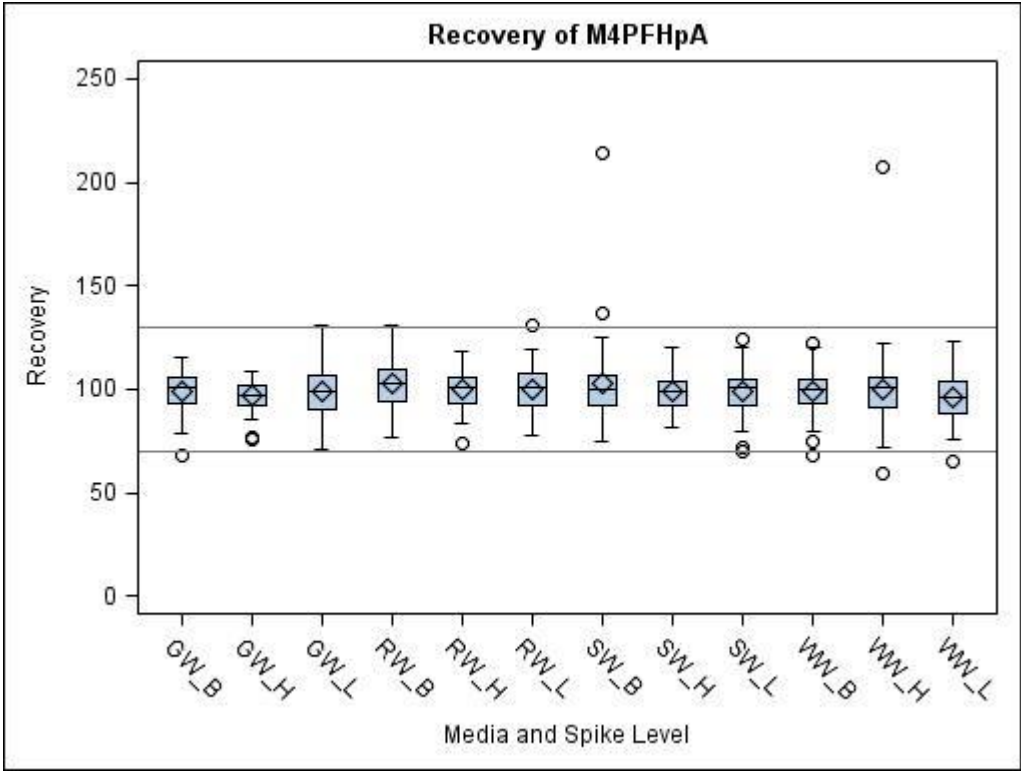


Figure B-66: Measured M5PFHxA

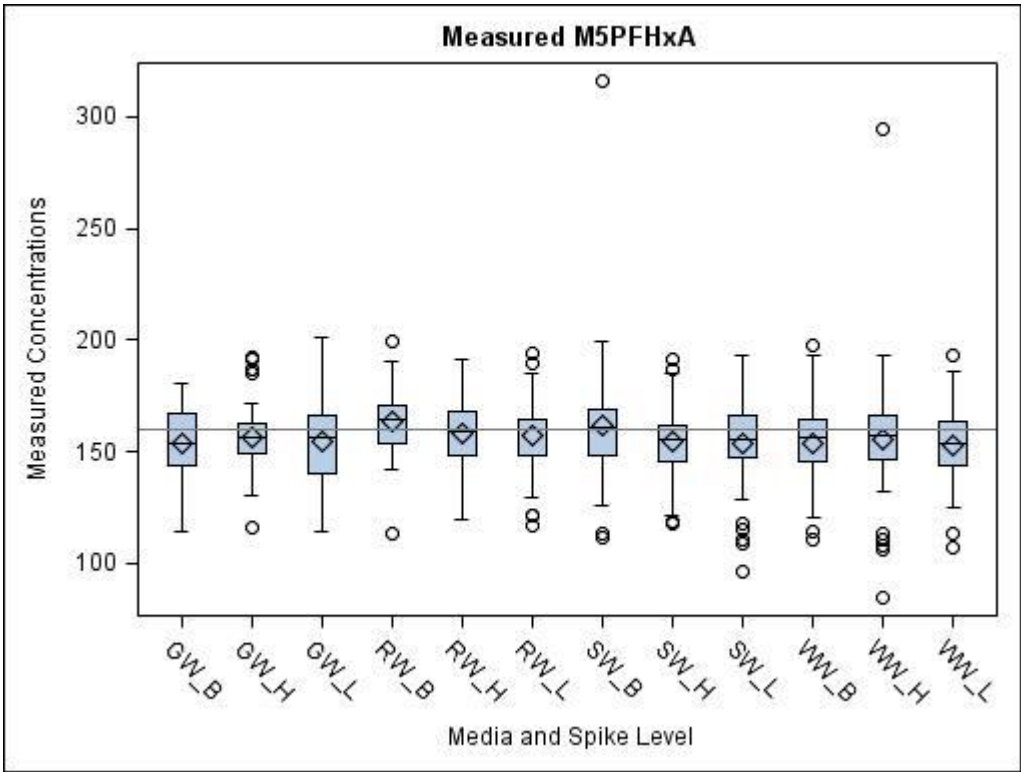


Figure B-67: Recovery of M5PFHxA (standardized y-axis)

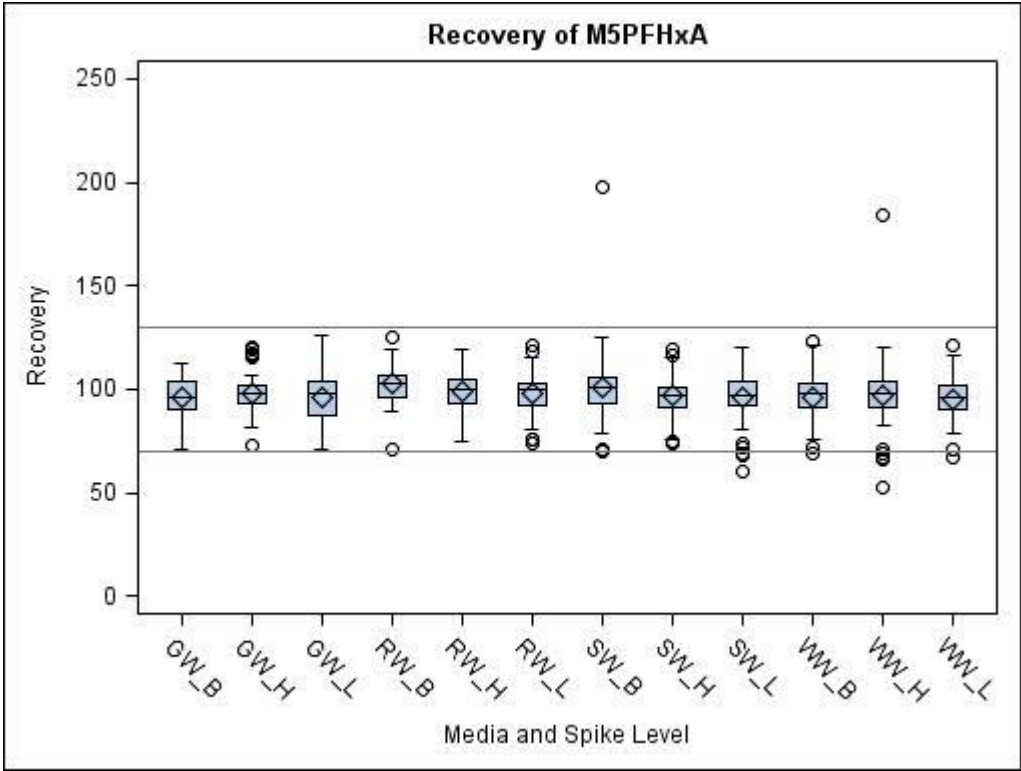


Figure B-68: Measured M5PFPeA

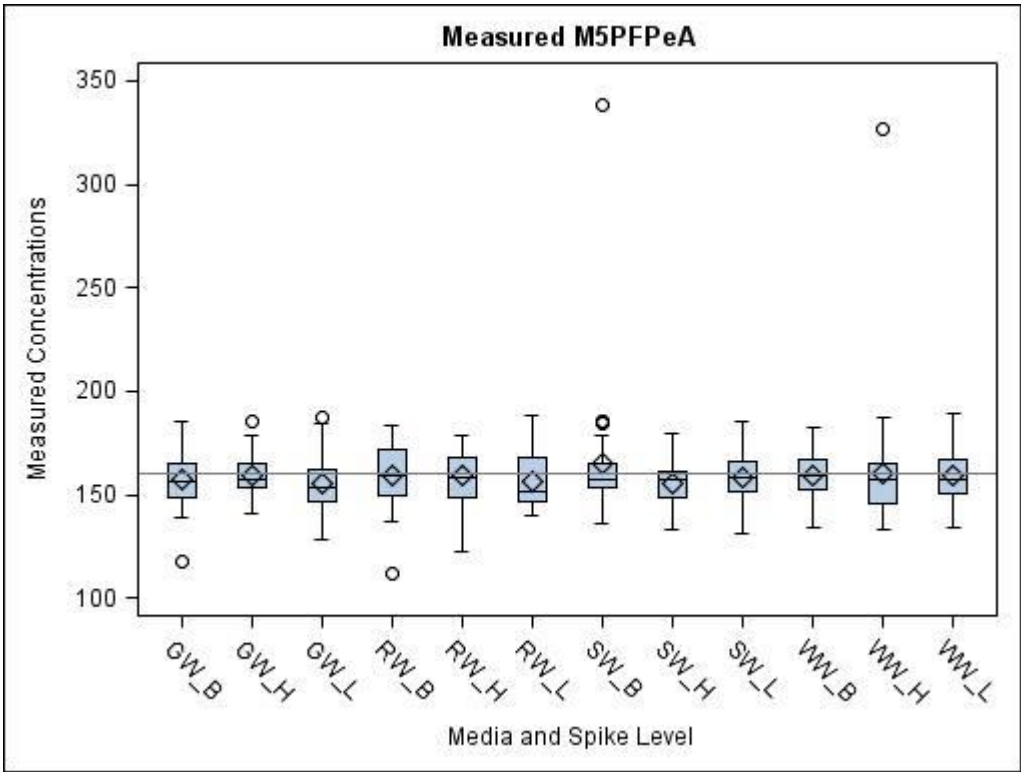


Figure B-69: Recovery of M5PFPeA (standardized y-axis)

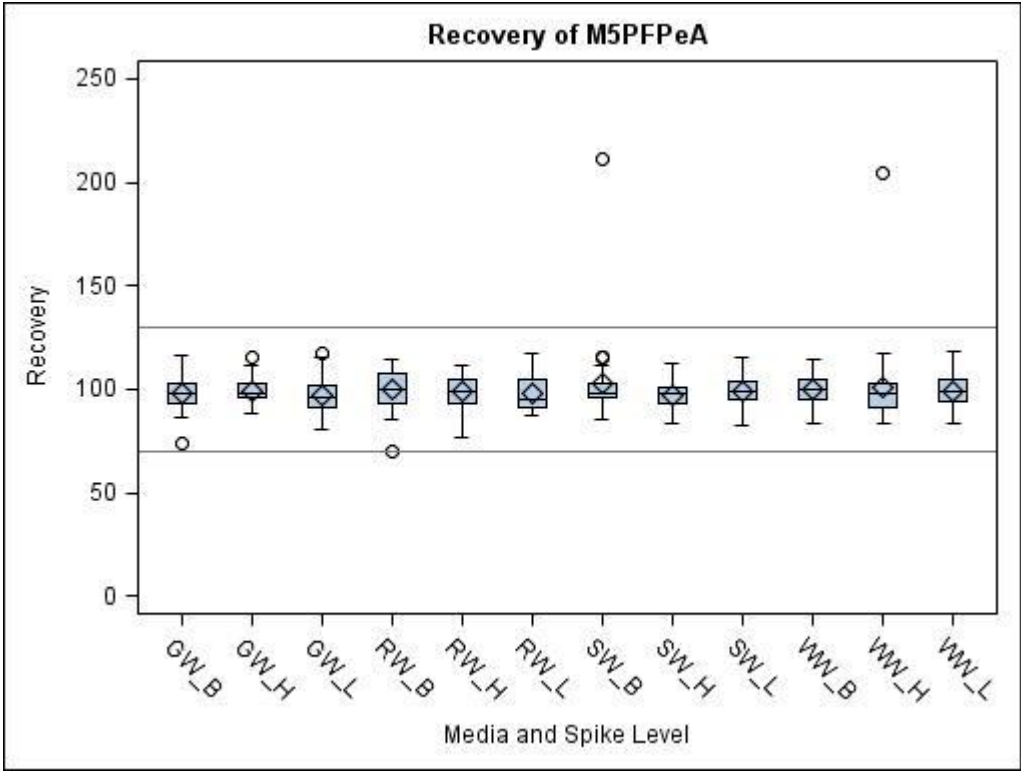


Figure B-70: Measured MPFBA

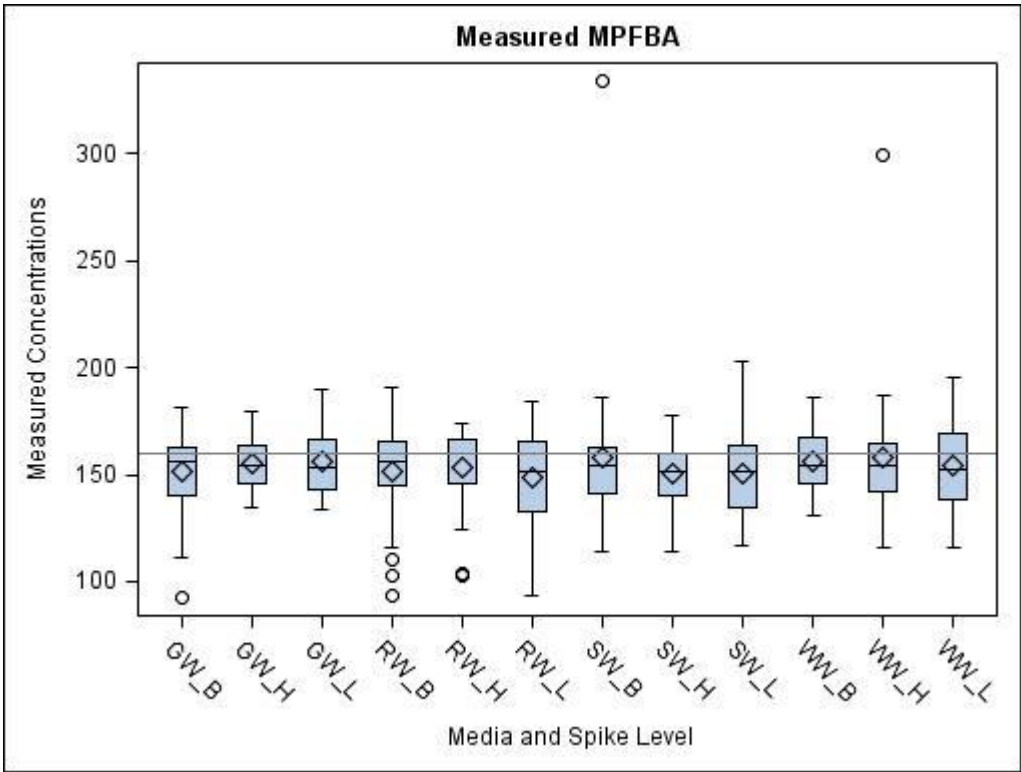


Figure B-71: Recovery of MPFBA (standardized y-axis)

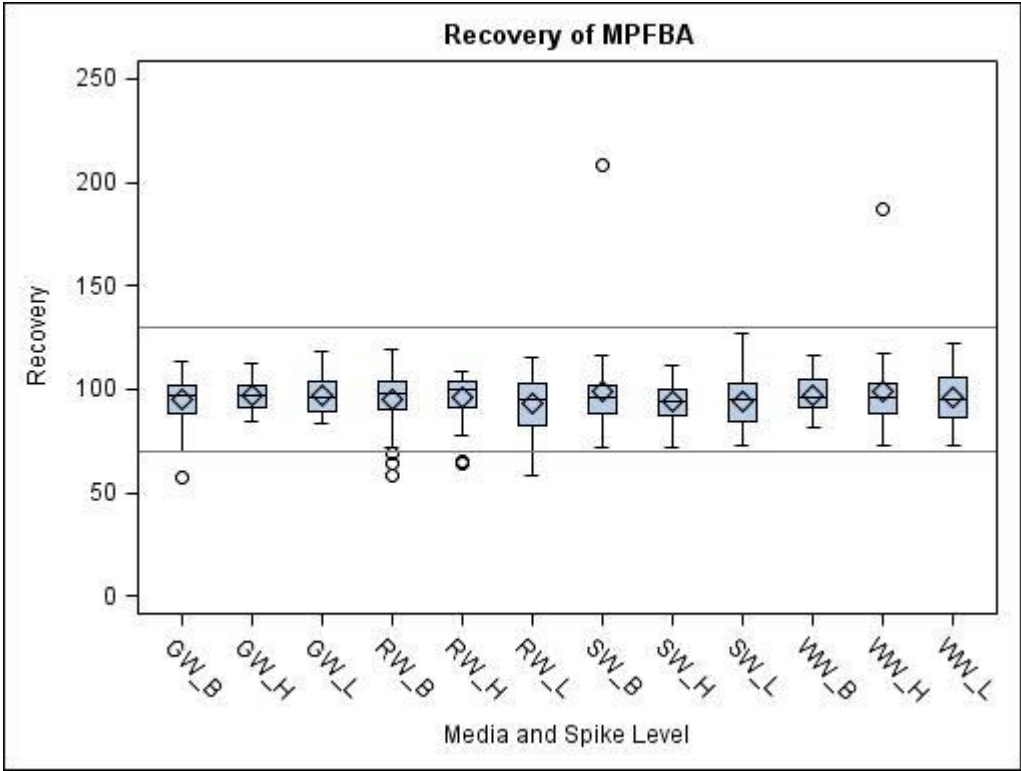


Figure B-72: Measured M8PFOS

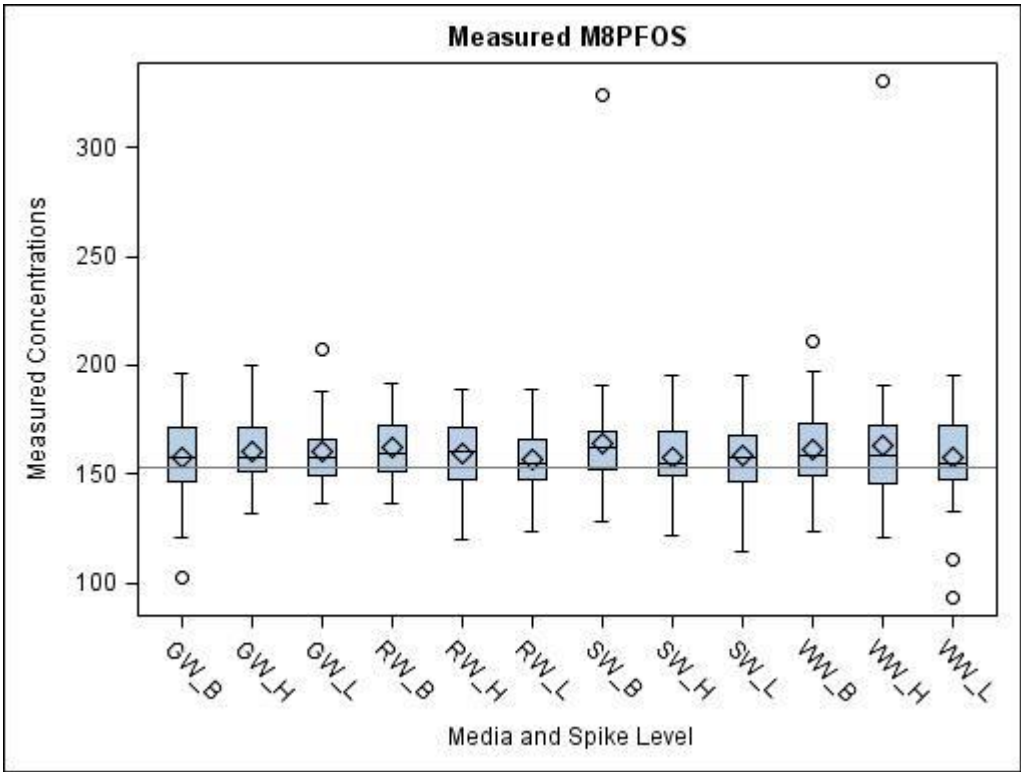


Figure B-73: Recovery of M8PFOS (standardized y-axis)

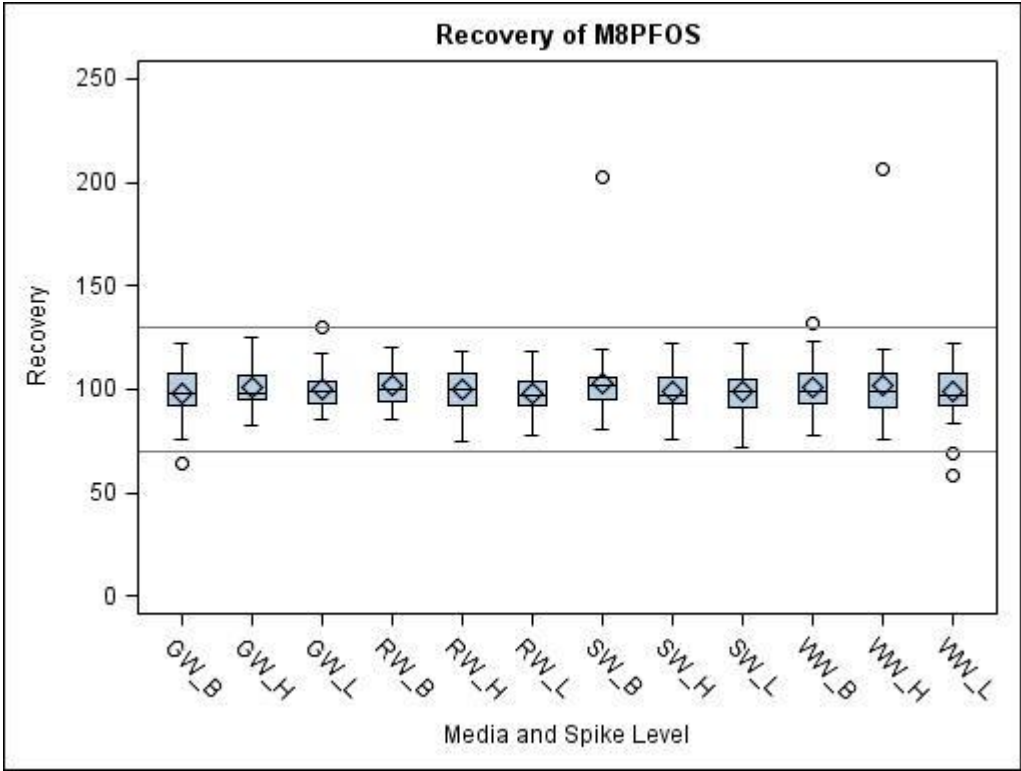


Figure B-74: Measured M3PFHxS

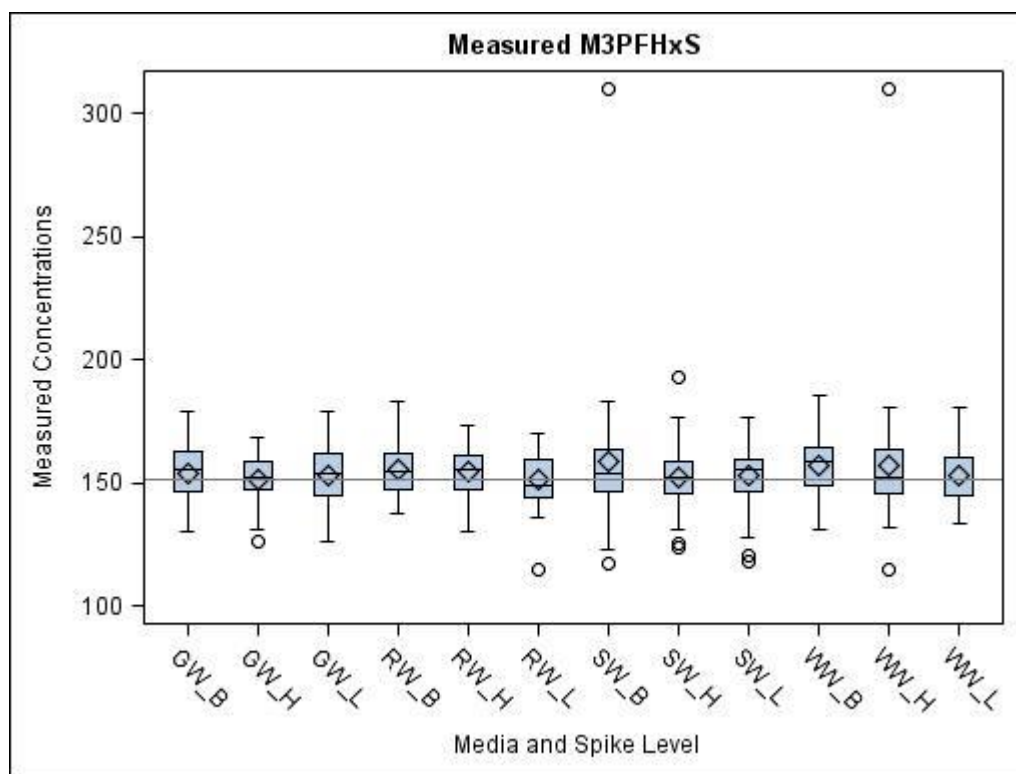


Figure B-75: Recovery of M3PFHxS (standardized y-axis)

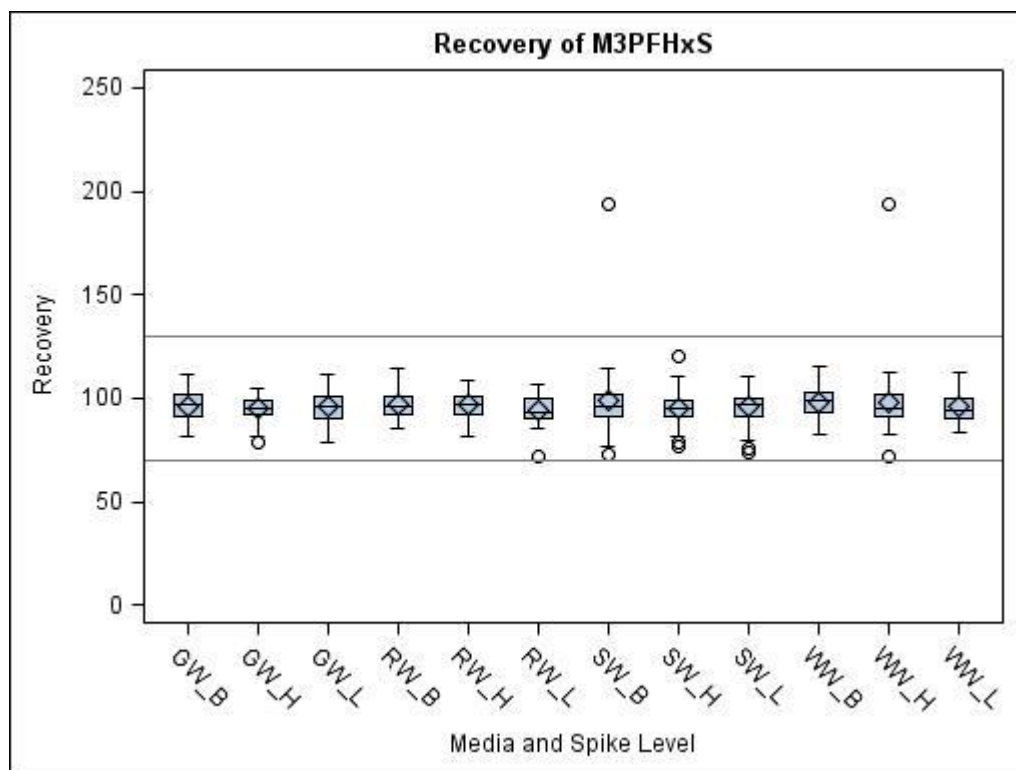


Figure B-76: Measured M3PFBS

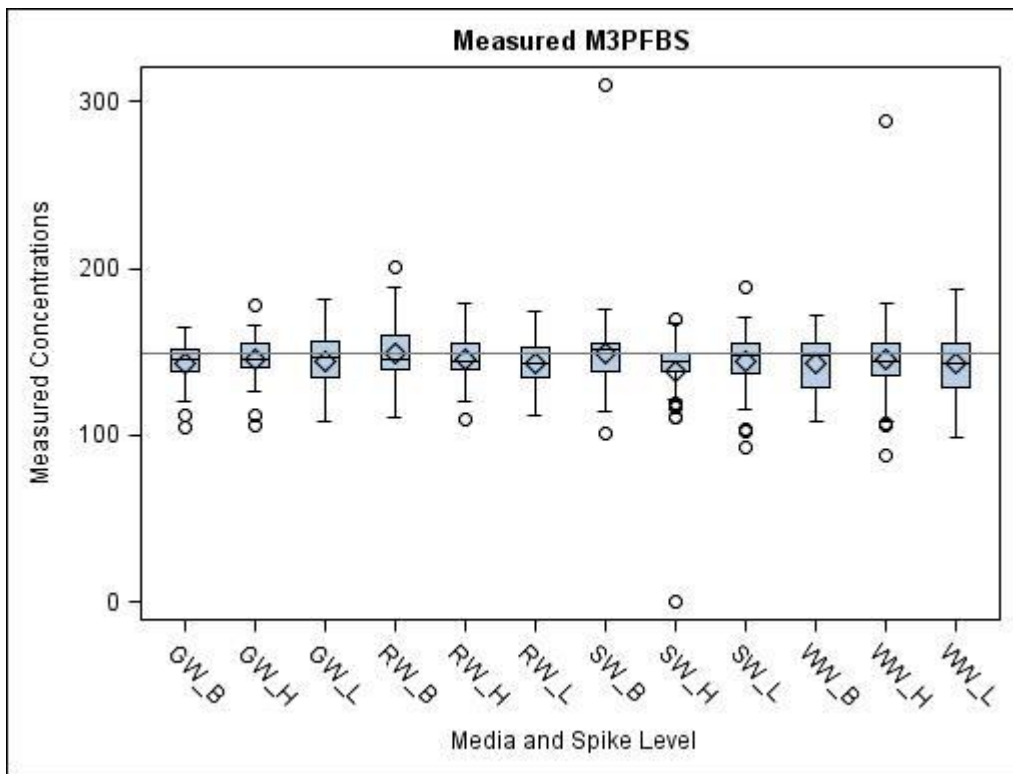


Figure B-77: Recovery of M3PFBS (standardized y-axis)

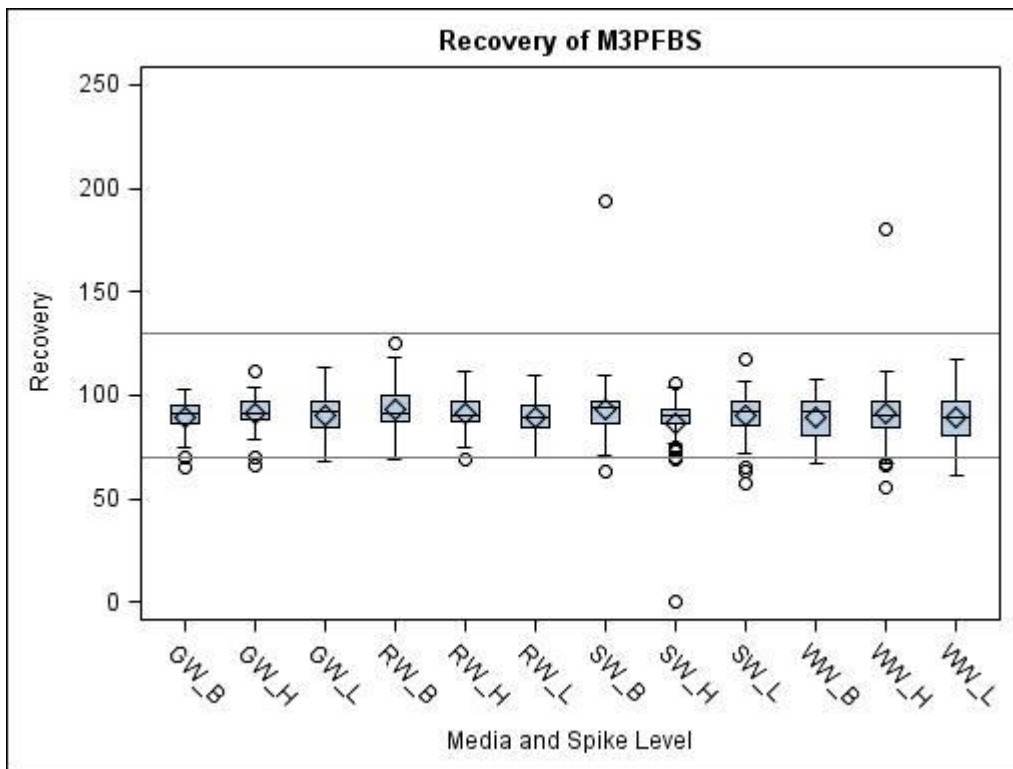


Figure B-78: Measured M8FOSAI

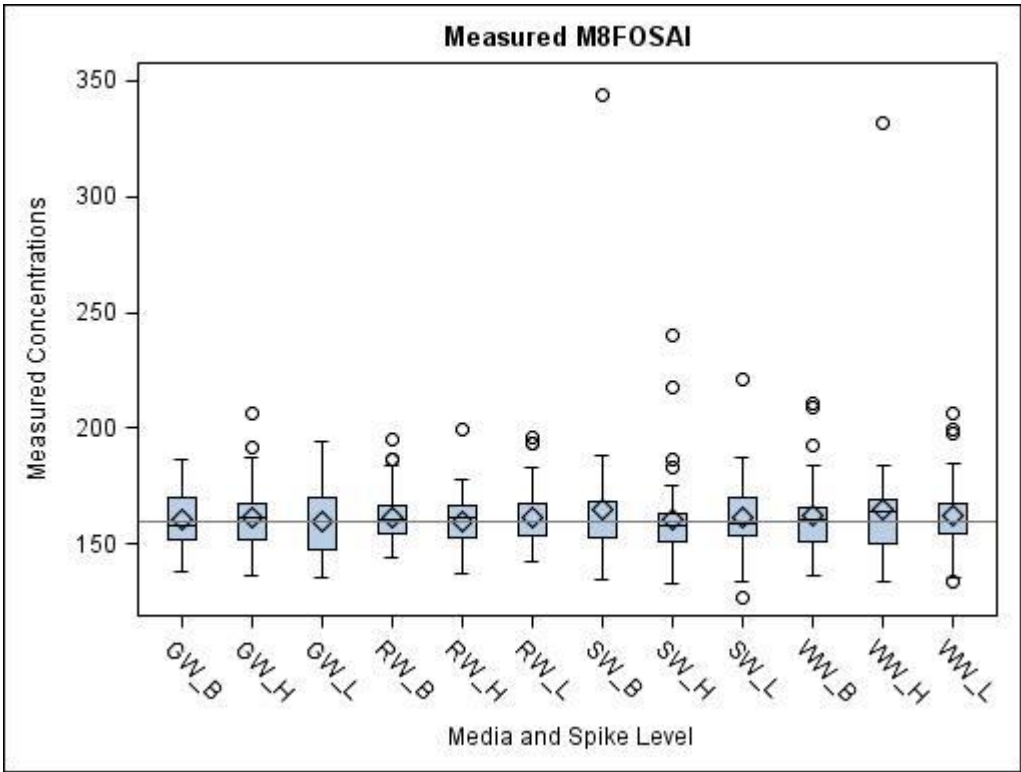


Figure B-79: Recovery of M8FOSAI (standardized y-axis)

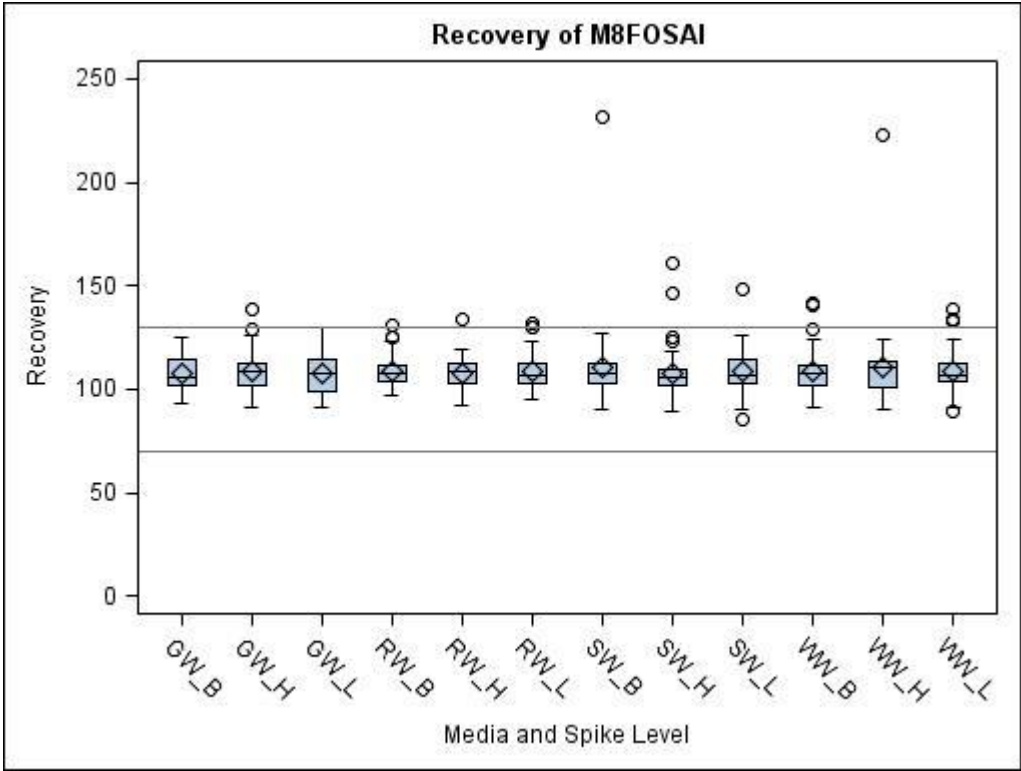


Figure B-80: Measured M282FTS

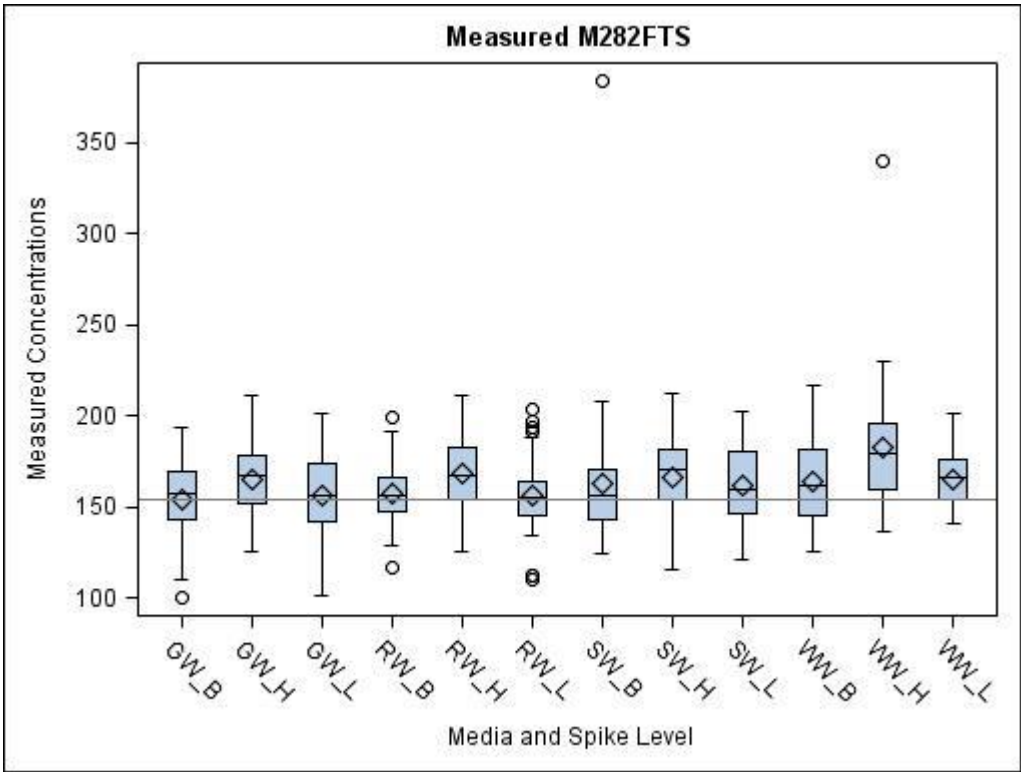


Figure B-81: Recovery of M282FTS (standardized y-axis)

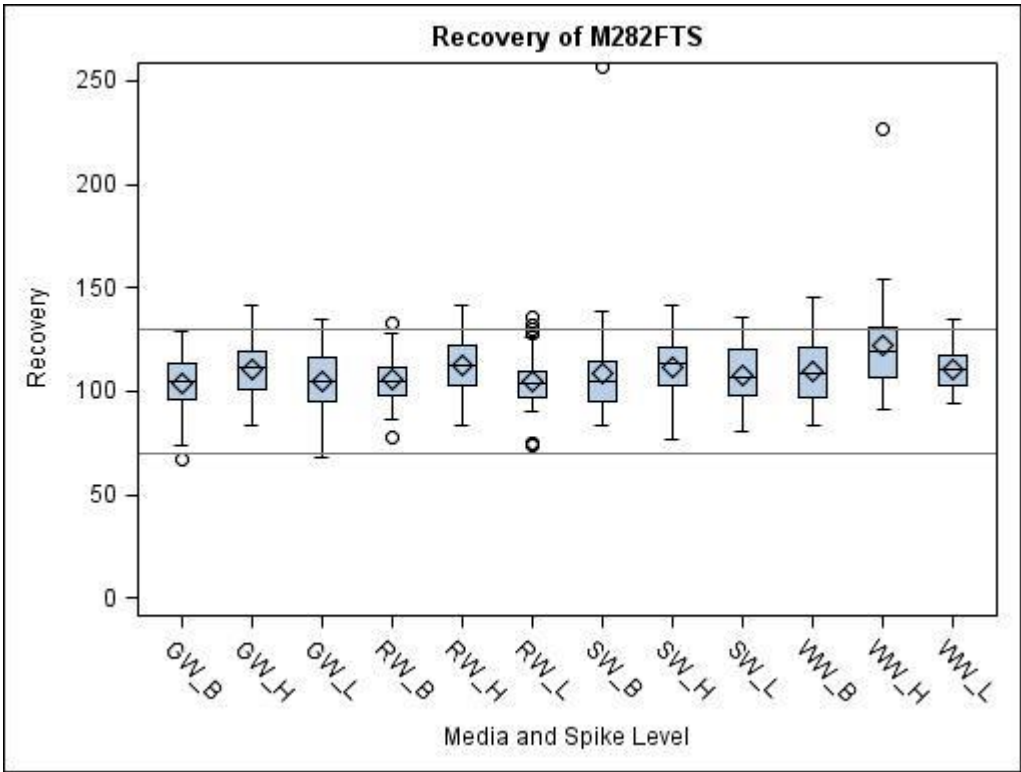


Figure B-82: Recovery of M282FTS

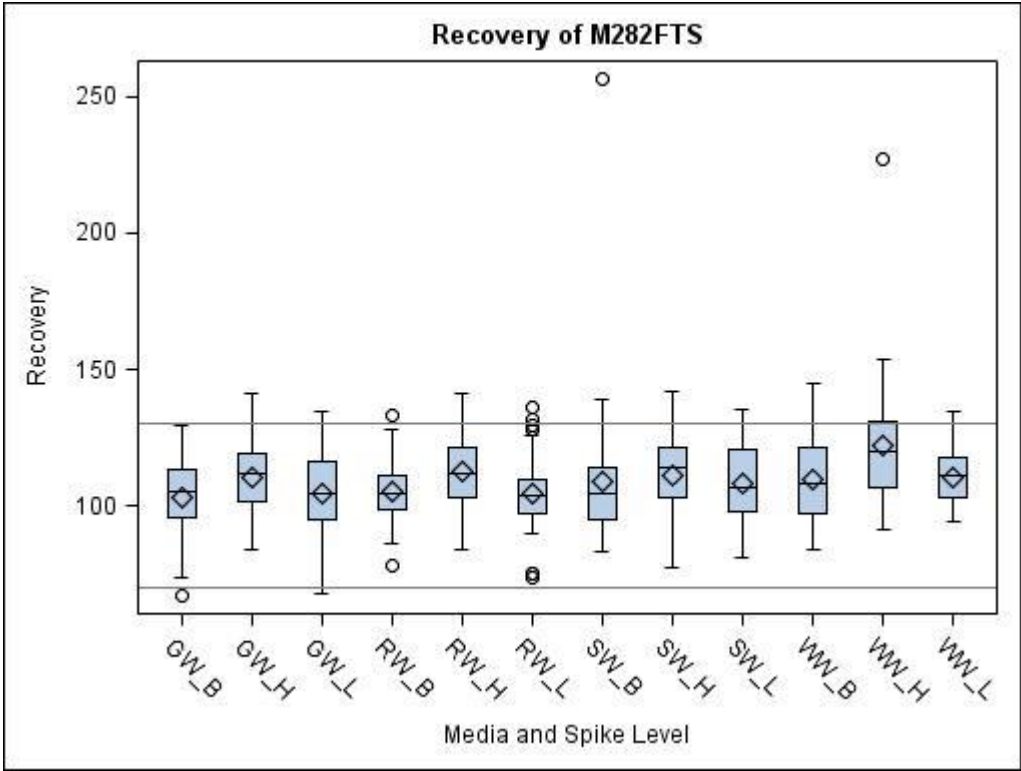


Figure B-83: Measured M262FTS

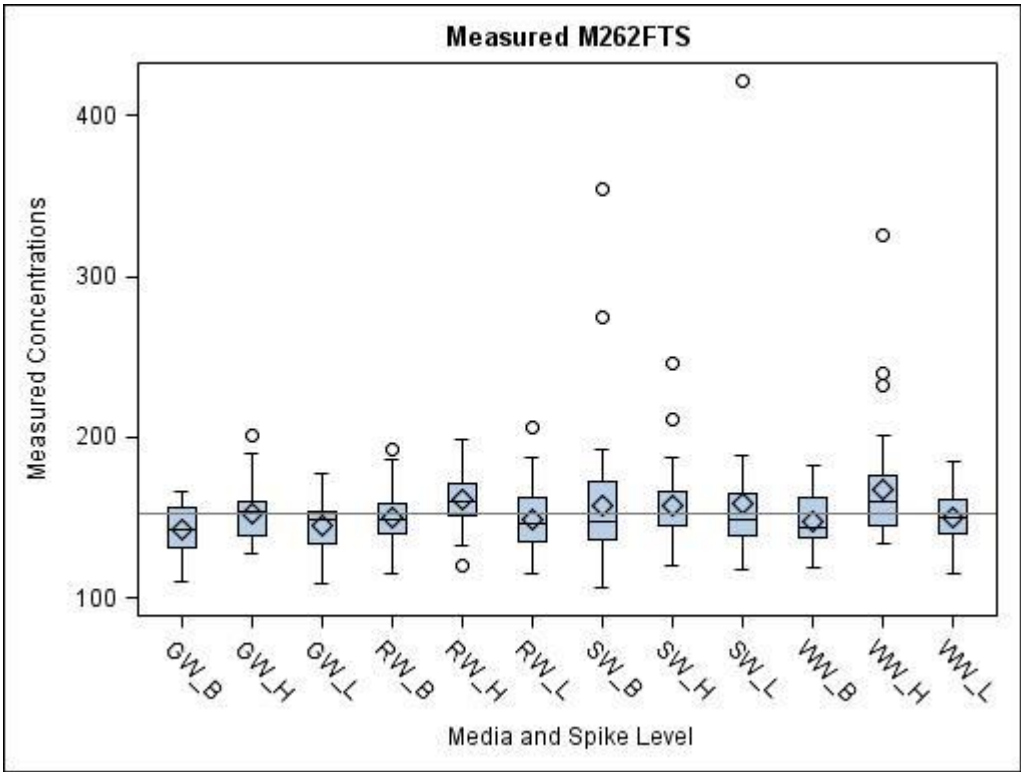


Figure B-84: Recovery of M262FTS (standardized y-axis)

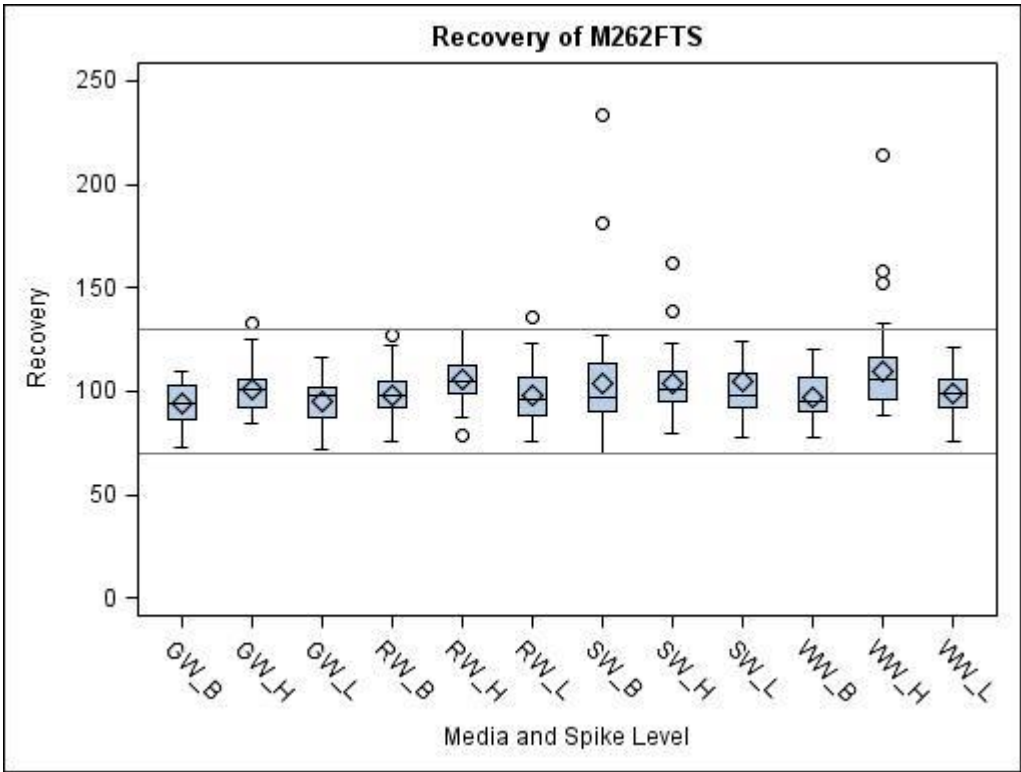


Figure B-85: Recovery of M262FTS

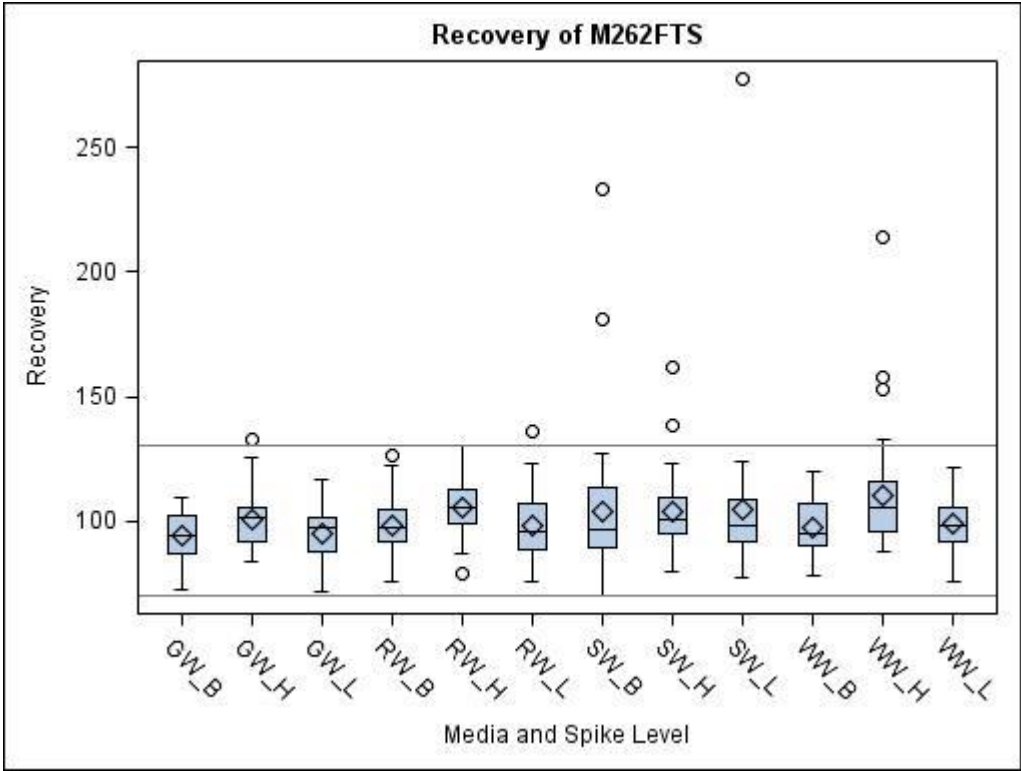


Figure B-86: Measured M242FTS

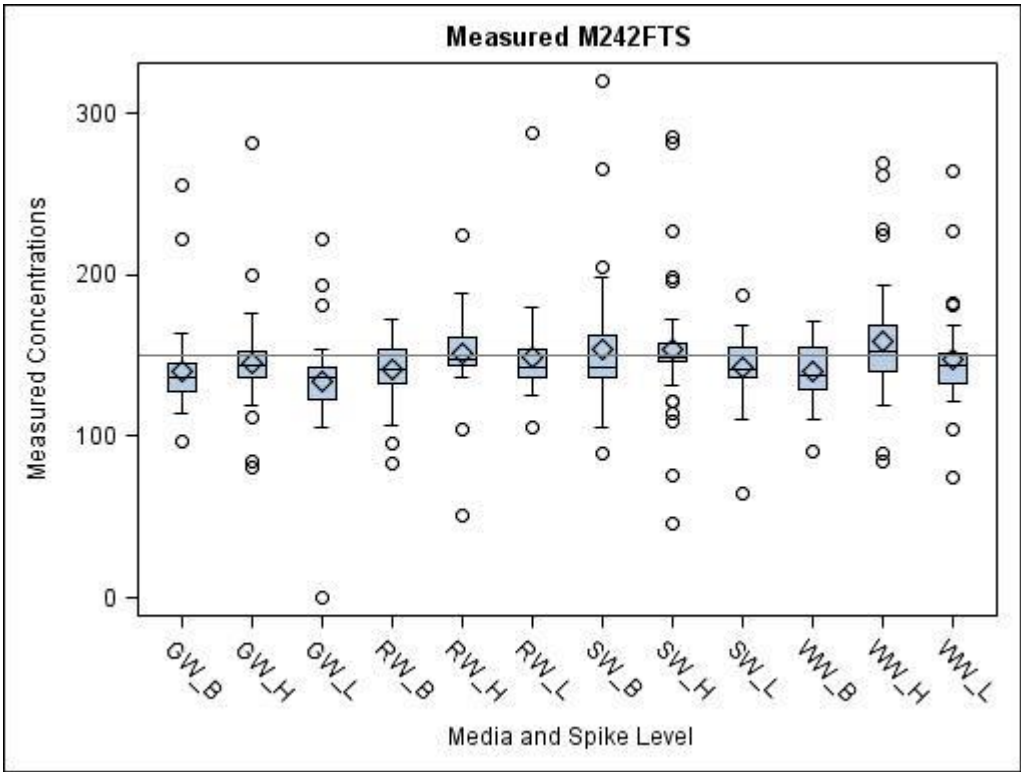


Figure B-87: Recovery of M242FTS (standardized y-axis)

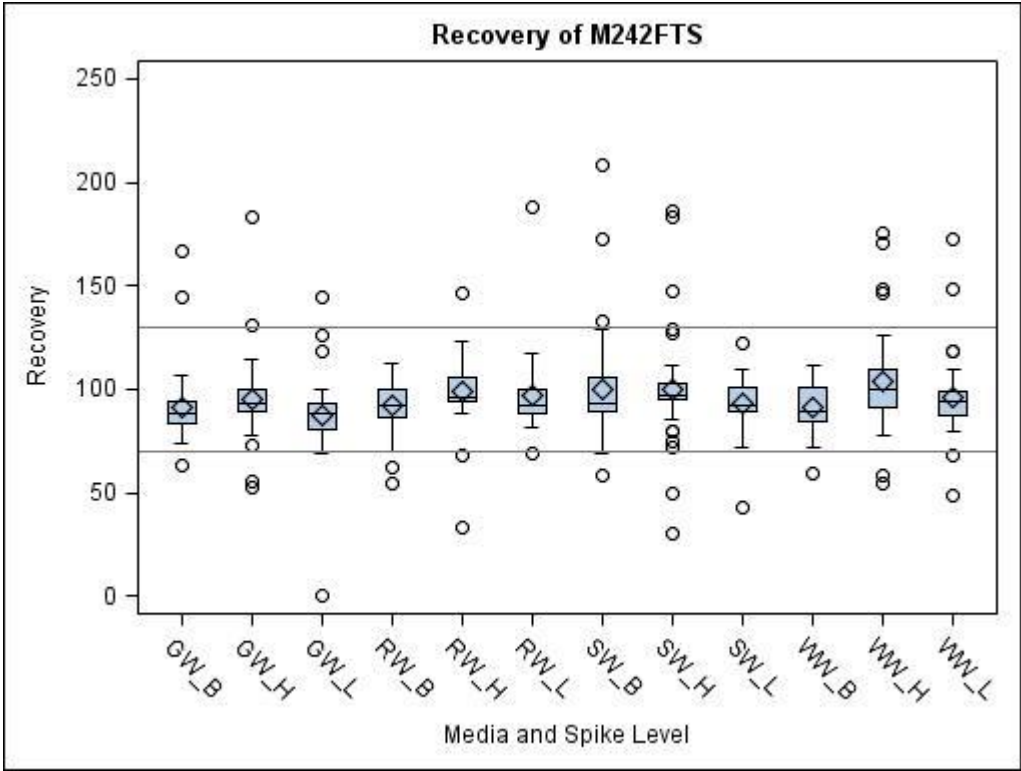


Figure B-88: Measured d5NEtFOSAA

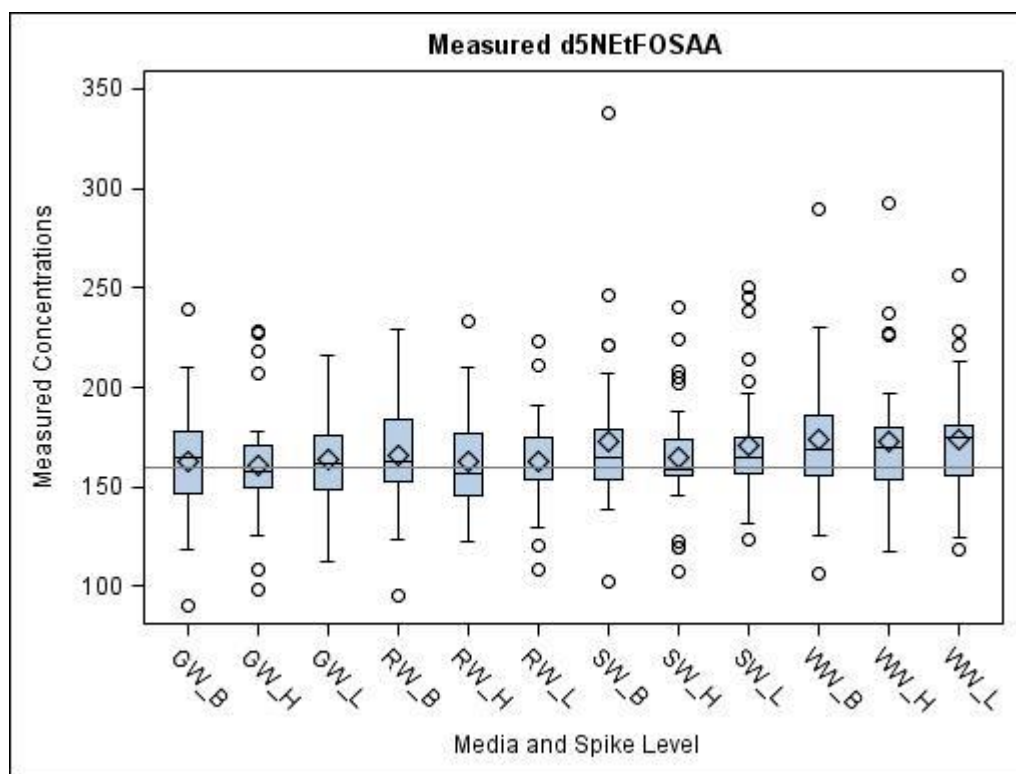


Figure B-89: Recovery of d5NEtFOSAA (standardized y-axis)

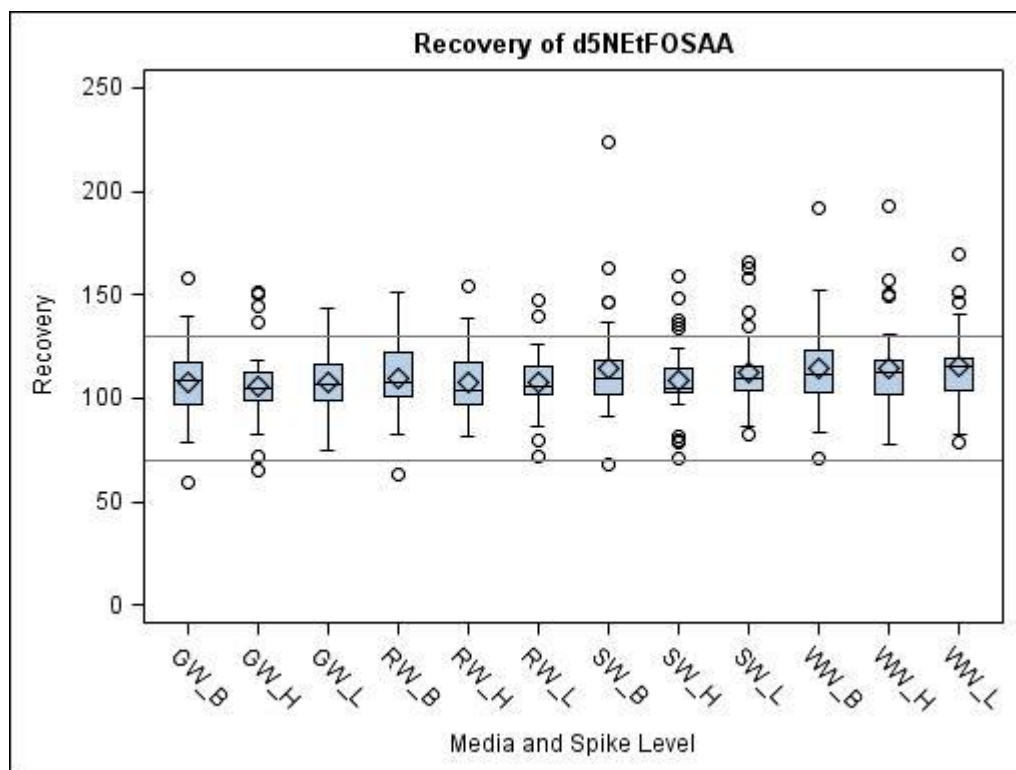


Figure B-90: Measured d3NMeFOSAA

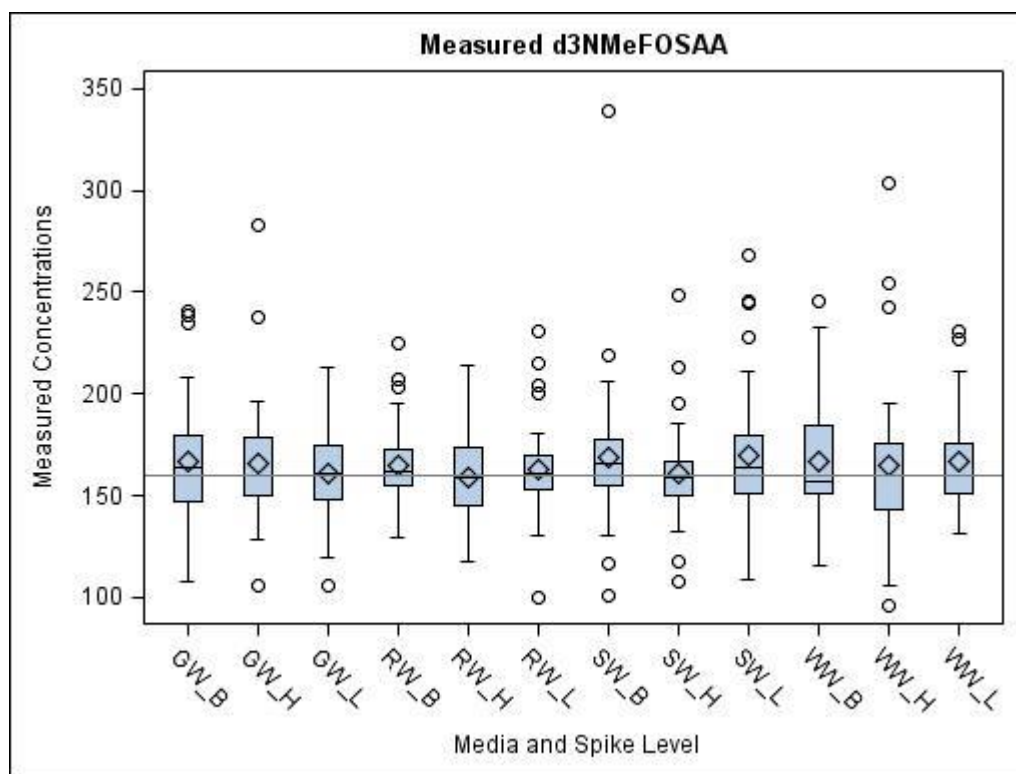
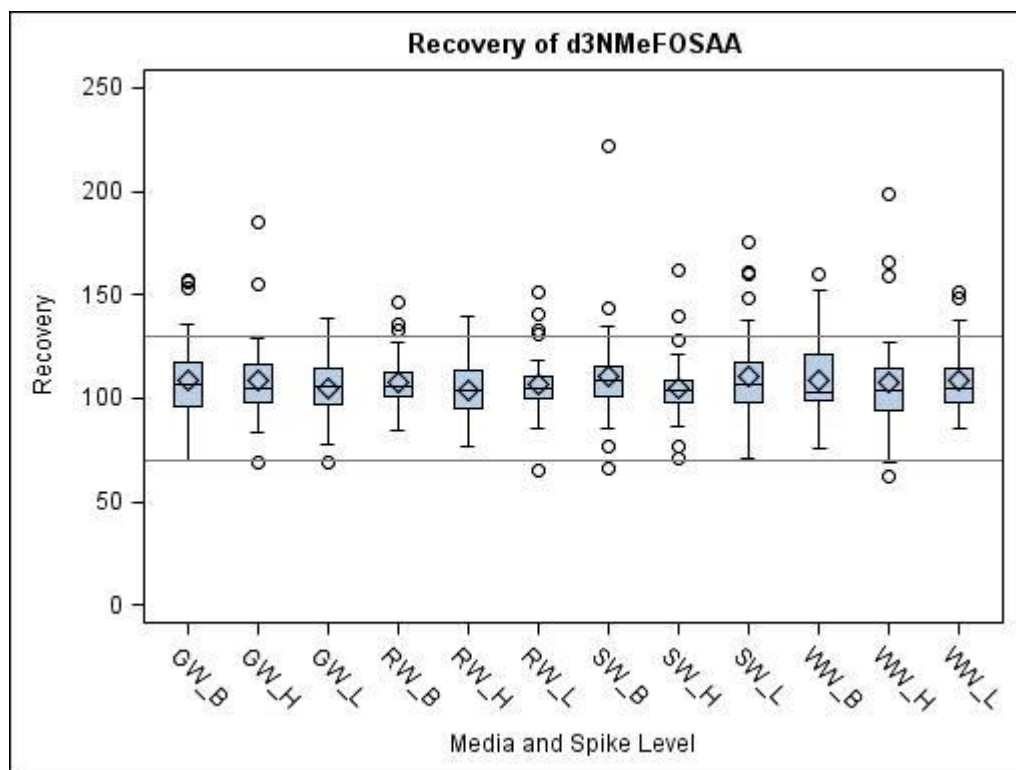


Figure B-91: Recovery of d3NMeFOSAA (standardized y-axis)



APPENDIX C SUMMARY INTERLABORATORY RESULTS TABLES AND GRAPHS

Table C-1: Summary Statistics by Media

Media	Analyte or Surrogate or Total	Replicate sets	Non-blank replicate sets	Sample number	Total sets with acceptable RSD	Percent sets with acceptable RSD	Total sets with acceptable median recovery	Percent sets with acceptable median recovery	Total samples with acceptable recovery	Percent samples with acceptable recovery	Total sets passing t-test	Percent sets passing t-test
GW	A	576	384	2880	573	99.5	366	95.3	1750	91.1	154	40.1
GW	S	456	456	2280	454	99.6	453	99.3	2204	96.7	228	50.0
GW	T	1032	840	5160	1027	99.5	819	97.5	3954	94.1	382	45.5
RW	A	576	384	2880	573	99.5	373	97.1	1784	92.9	166	43.2
RW	S	456	456	2280	456	100.0	449	98.5	2204	96.7	243	53.3
RW	T	1032	840	5160	1029	99.7	822	97.9	3988	95.0	409	48.7
SW	A	576	384	2880	575	99.8	364	94.8	1738	90.5	157	40.9
SW	S	456	456	2280	453	99.3	452	99.1	2176	95.4	230	50.4
SW	T	1032	840	5160	1028	99.6	816	97.1	3914	93.2	387	46.1
WW	A	576	384	2856	574	99.7	361	94.0	1699	89.6	180	46.9
WW	S	456	456	2261	456	100.0	447	98.0	2133	94.3	230	50.4
WW	T	1032	840	5117	1030	99.8	808	96.2	3832	92.2	410	48.8

Figure C-1: Groundwater Recoveries by Analyte (standardized y-axis)

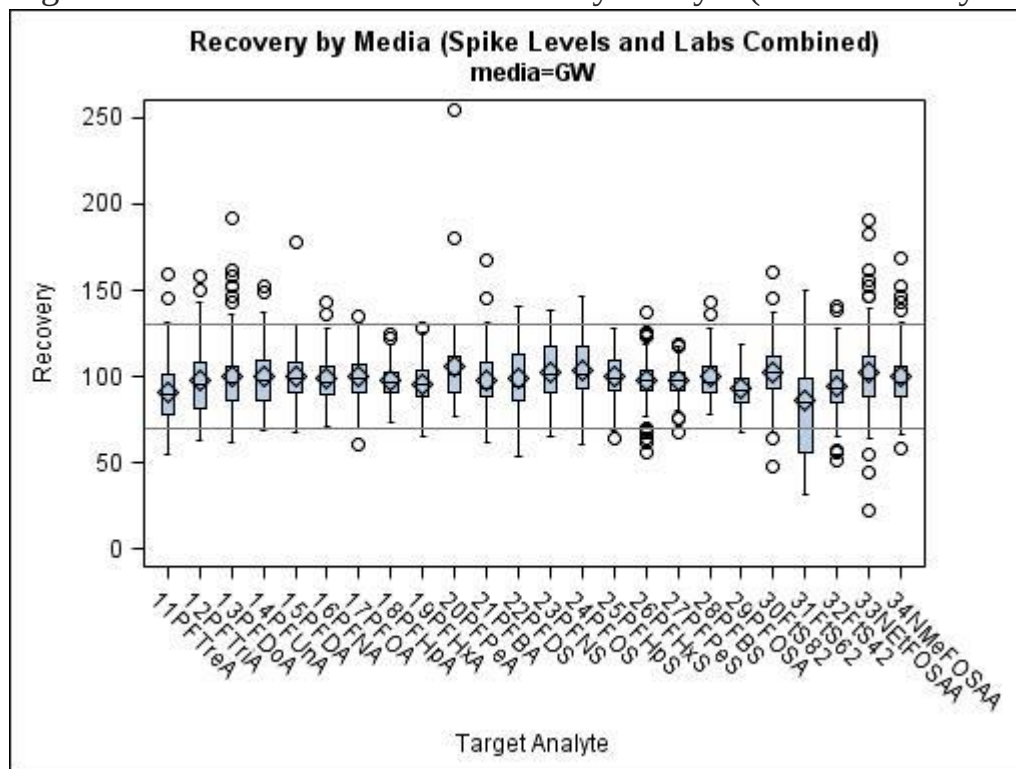


Figure C-2: Reagent Water Recoveries by Analyte (standardized y-axis)

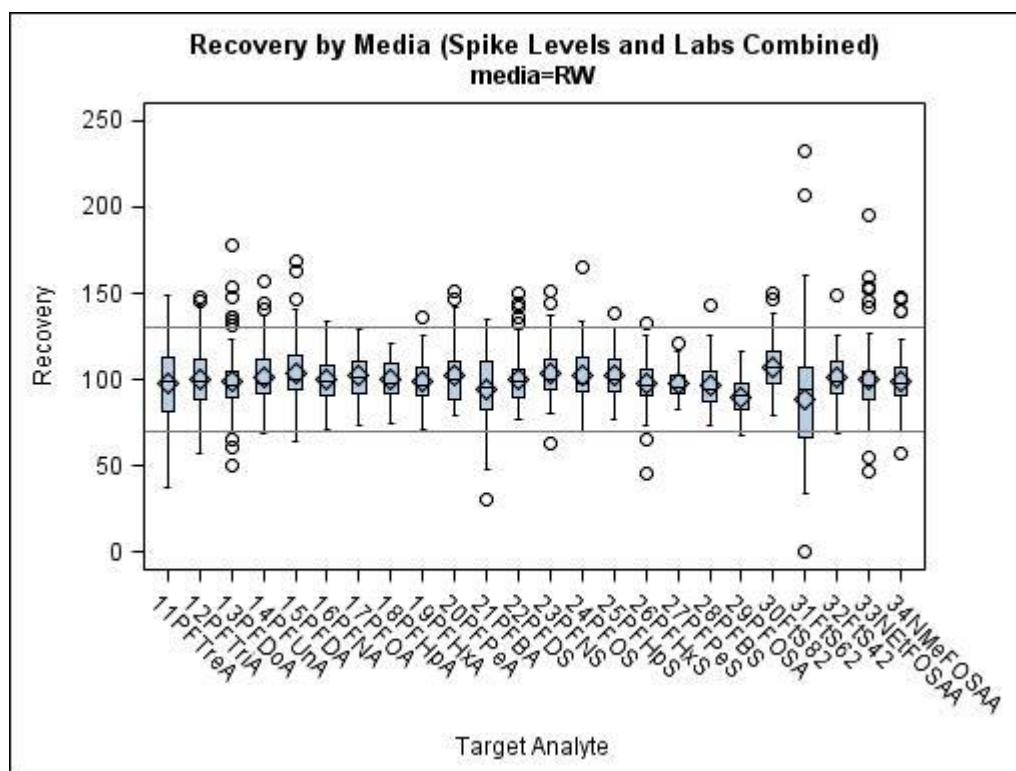


Figure C-3: Surface Water Recoveries by Analyte (standardized y-axis)

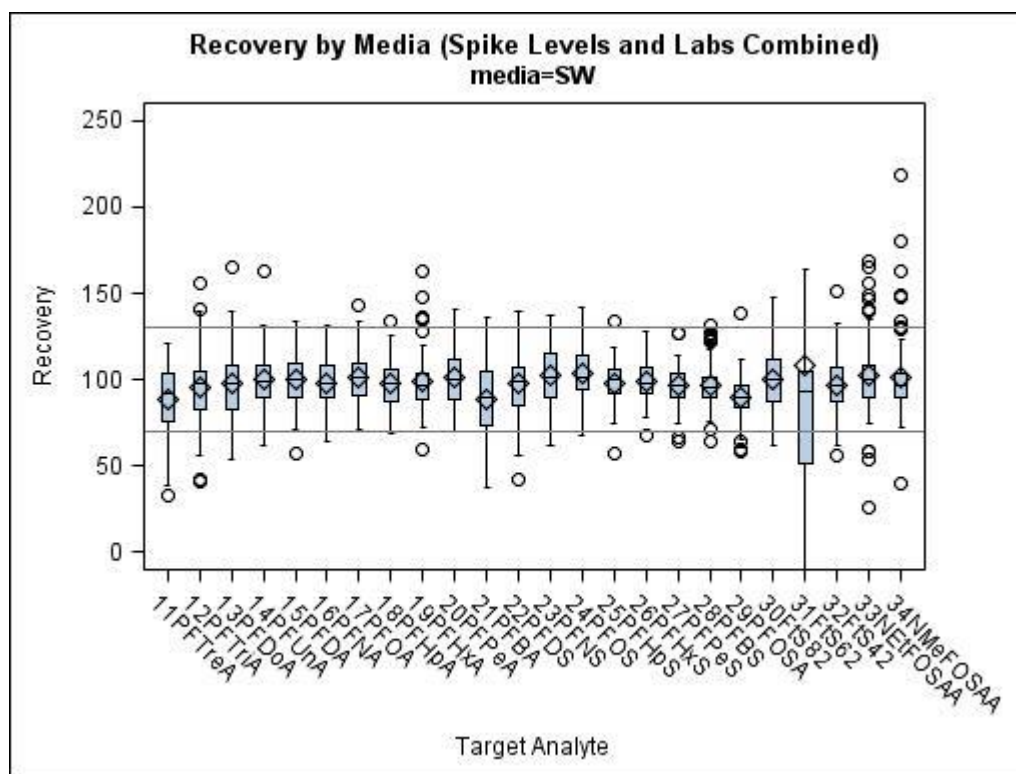


Figure C-4: Wastewater Recoveries by Analyte (standardized y-axis)

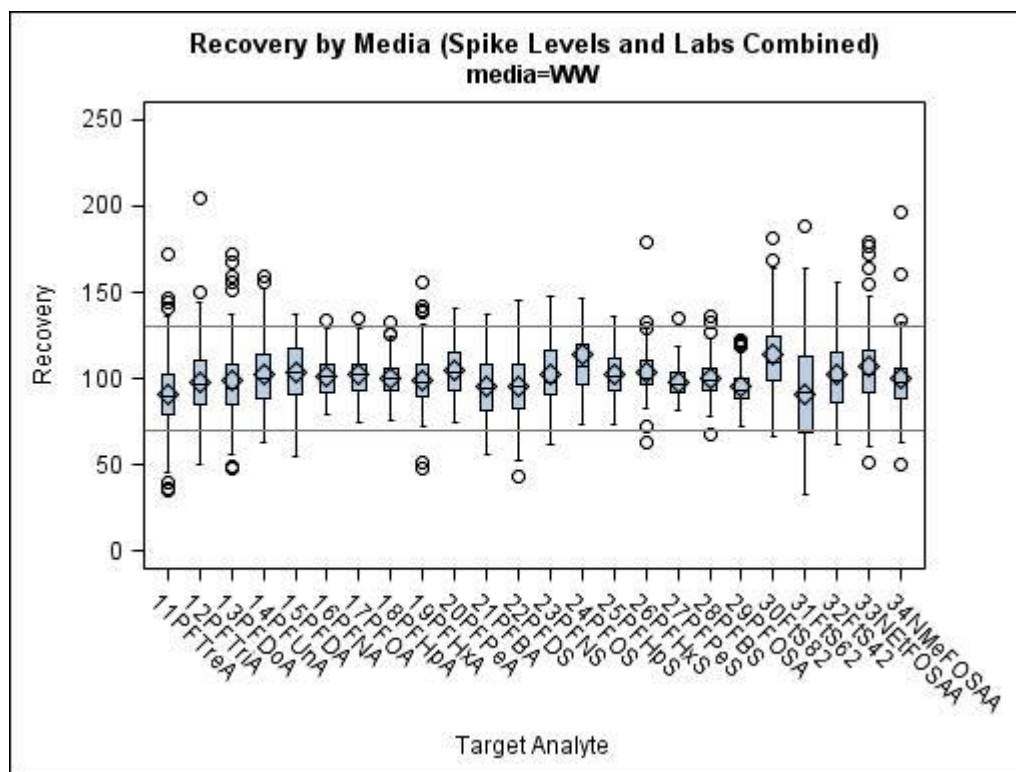


Figure C-5: Groundwater Recoveries by Surrogate (standardized y-axis)

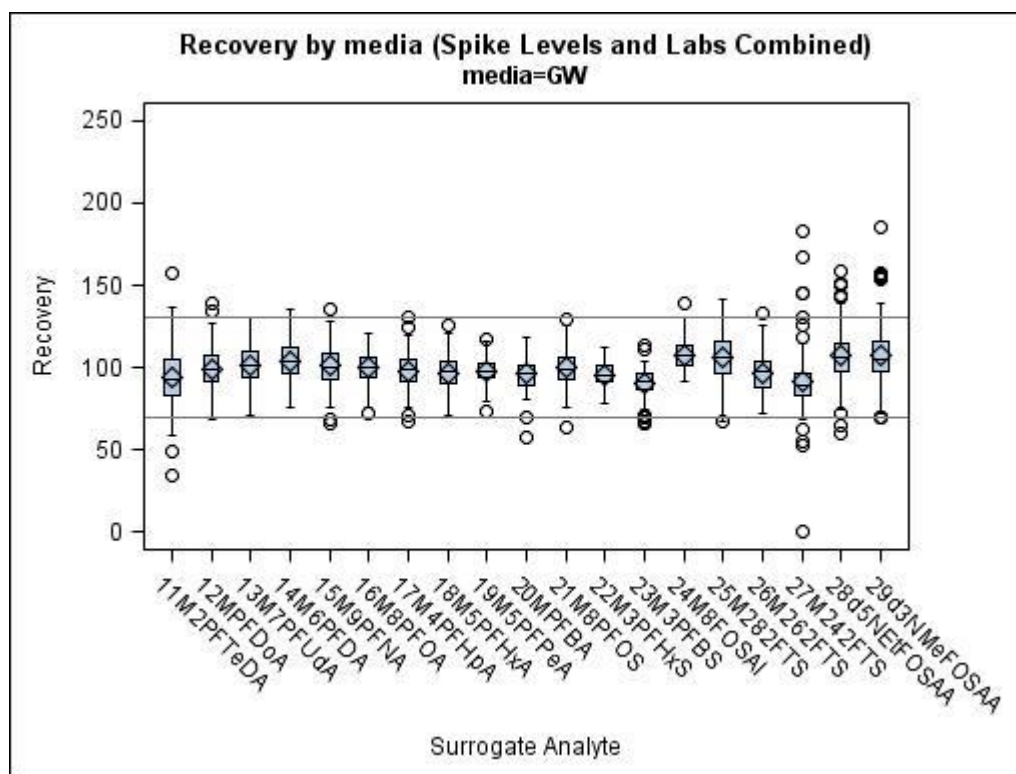


Figure C-6: Reagent Water Recoveries by Surrogate (standardized y-axis)

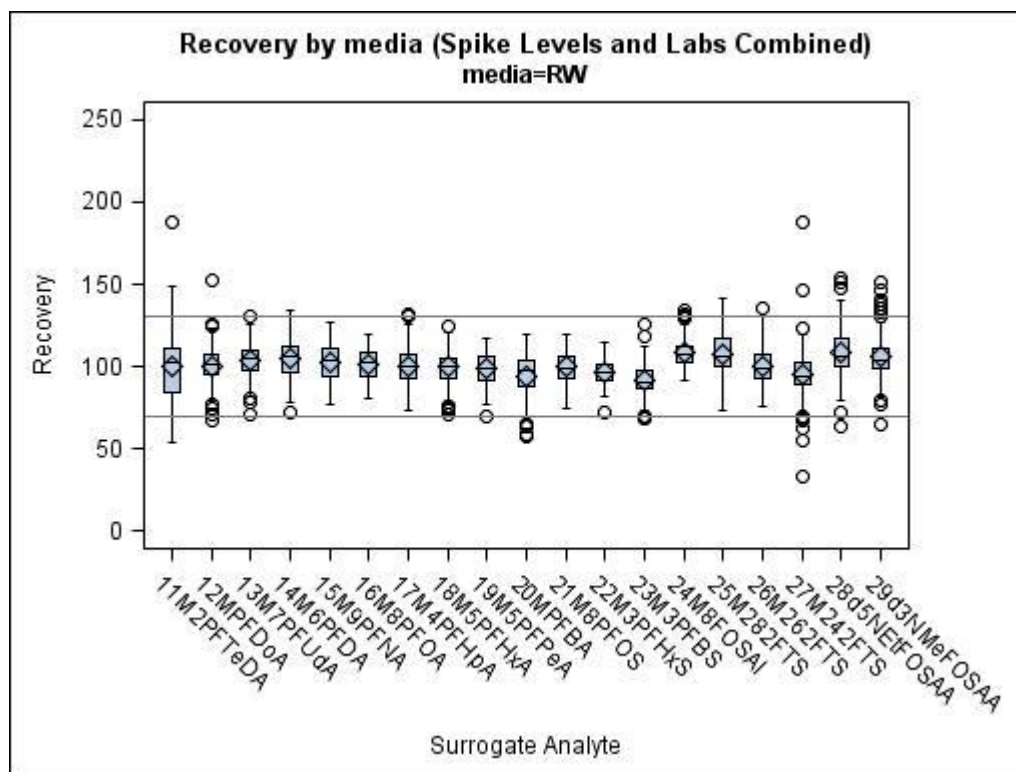


Figure C-7: Surface Water Recoveries by Surrogate (standardized y-axis)

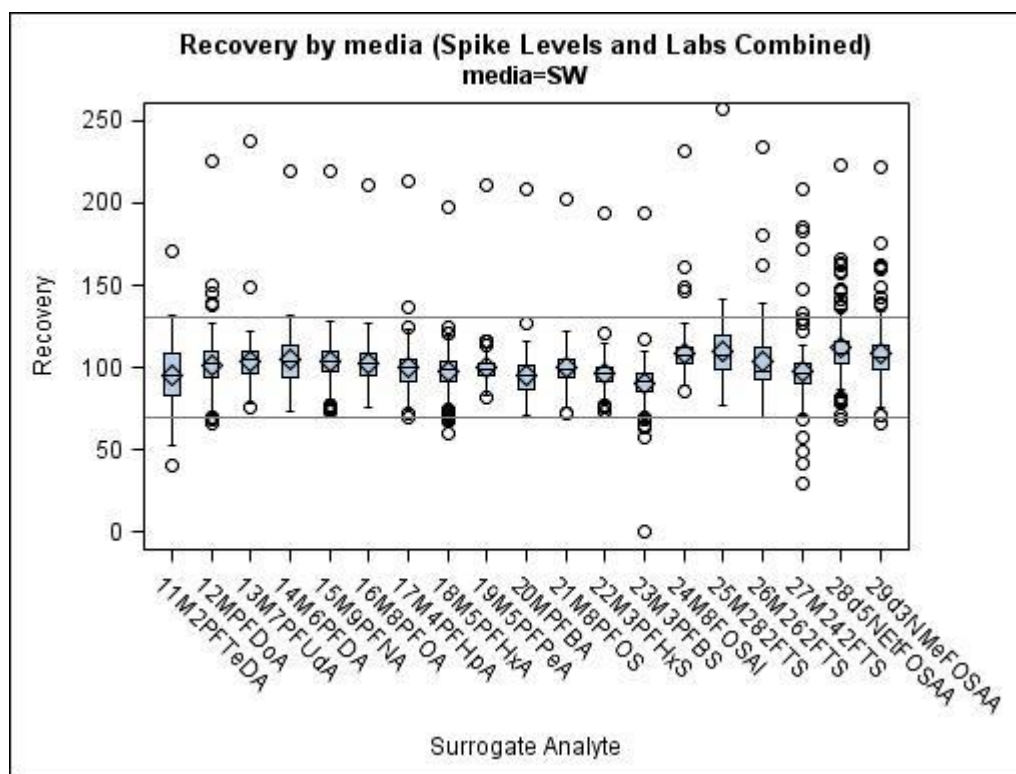


Figure C-8: Wastewater Recoveries by Surrogate (standardized y-axis)

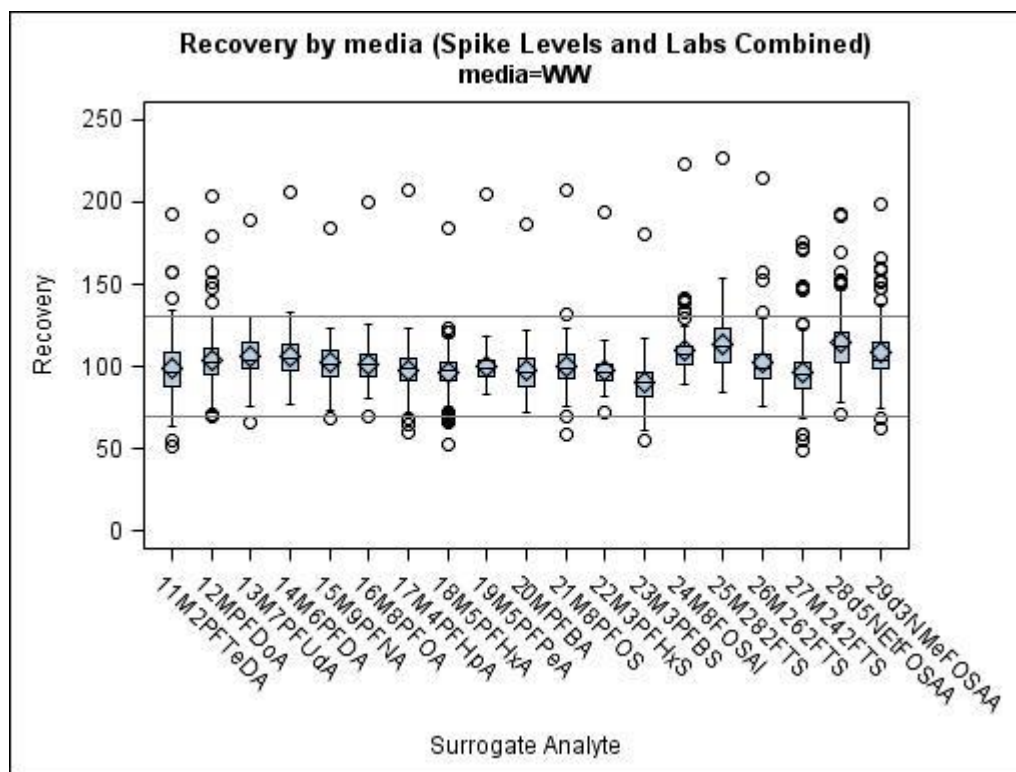


Table C-2: Summary Statistics by Spike Level

Spike	Analyte or Surrogate or Total	Replicate sets	Non-blank replicate sets	Sample number	Total sets with acceptable RSD	Percent sets with acceptable RSD	Total sets with acceptable median recovery	Percent sets with acceptable median recovery	Total samples with acceptable recovery	Percent samples with acceptable recovery	Total sets passing t-test	Percent sets passing t-test
B	A	768	0	3840	768	100.0						
B	S	608	608	3040	608	100.0	601	98.8	2909	95.7	300	49.3
B	T	1376	608	6880	1376	100.0	601	98.8	2909	95.7	300	49.3
L	A	768	768	3840	765	99.6	739	96.2	3594	93.6	274	35.7
L	S	608	608	3040	605	99.5	601	98.8	2908	95.7	332	54.6
L	T	1376	1376	6880	1370	99.6	1340	97.4	6502	94.5	606	44.0
H	A	768	768	3816	762	99.2	725	94.4	3377	88.5	383	49.9
H	S	608	608	3021	606	99.7	599	98.5	2900	96.0	299	49.2
H	T	1376	1376	6837	1368	99.4	1324	96.2	6277	91.8	682	49.6

Figure C-9: Low-spike Recoveries by Analyte (standardized y-axis)

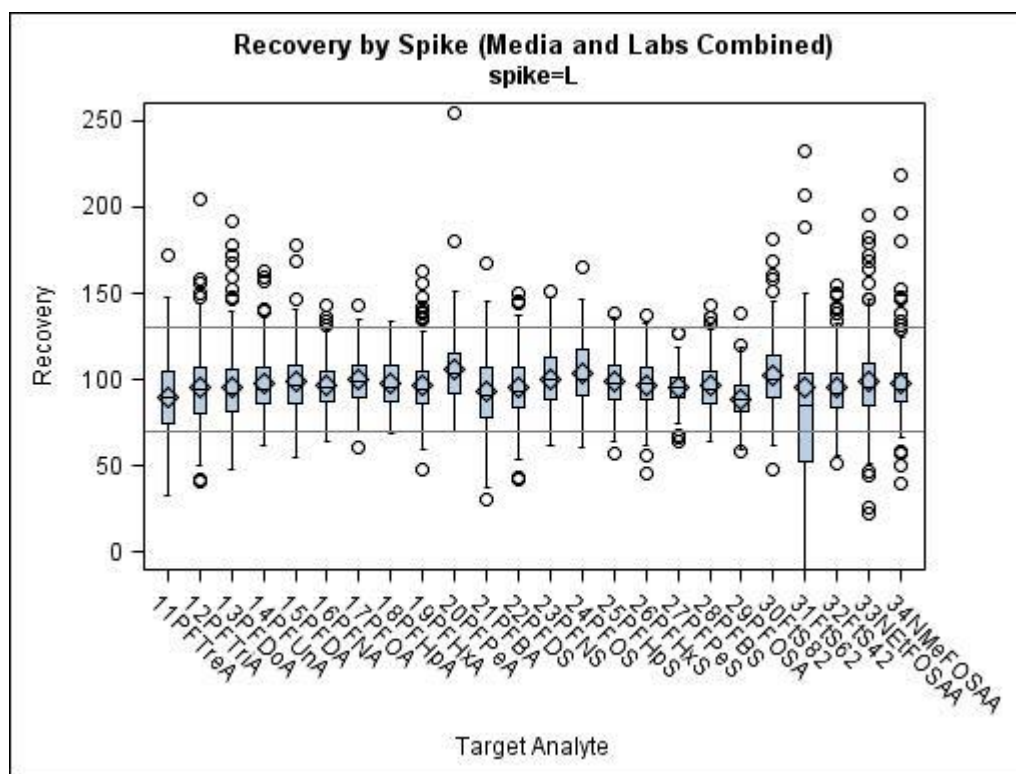


Figure C-10: High-spike Recoveries by Analyte (standardized y-axis)

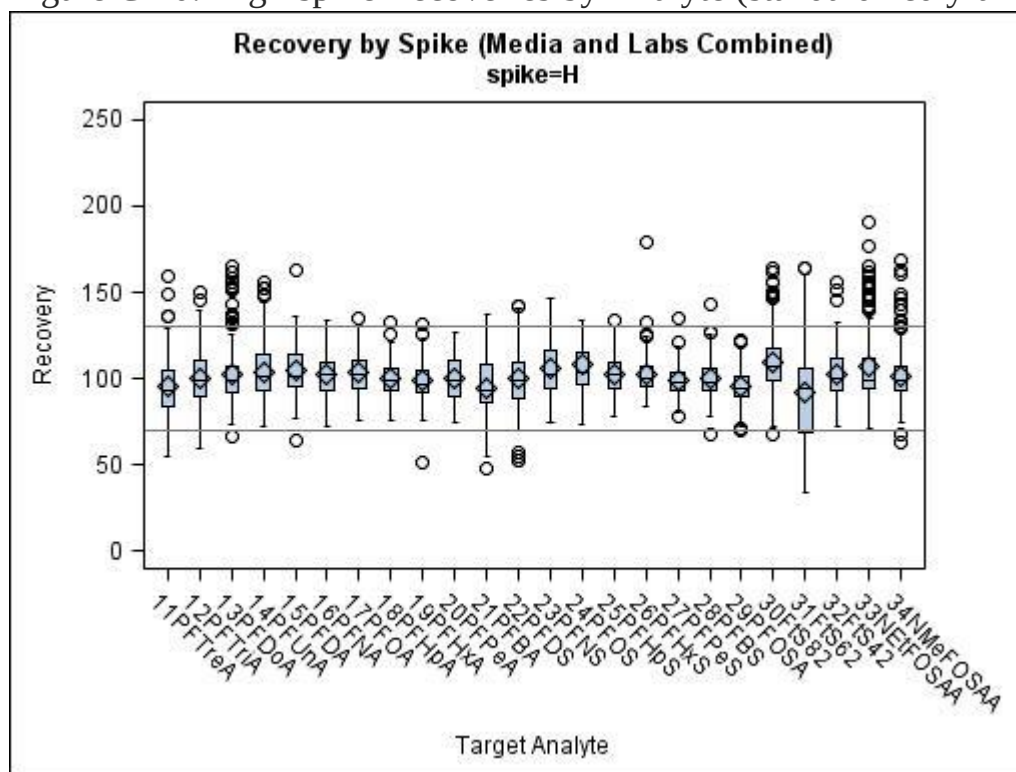


Figure C-11: Blank-spike Recoveries by Surrogate (standardized y-axis)

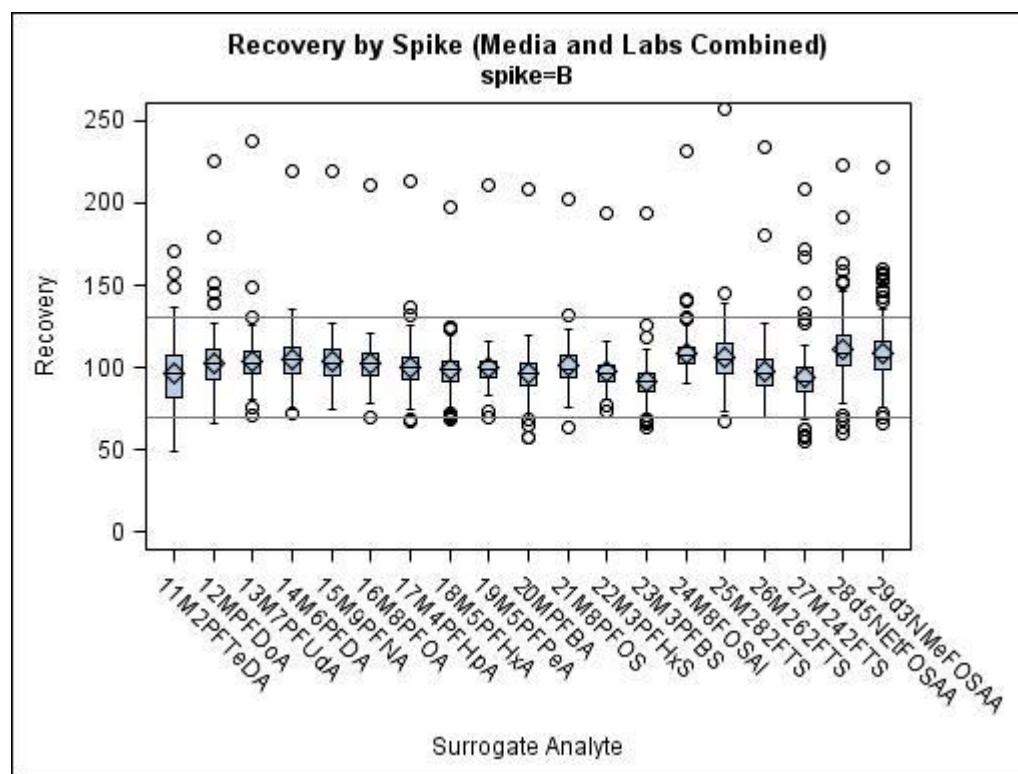


Figure C-12: Low-spike Recoveries by Surrogate (standardized y-axis)

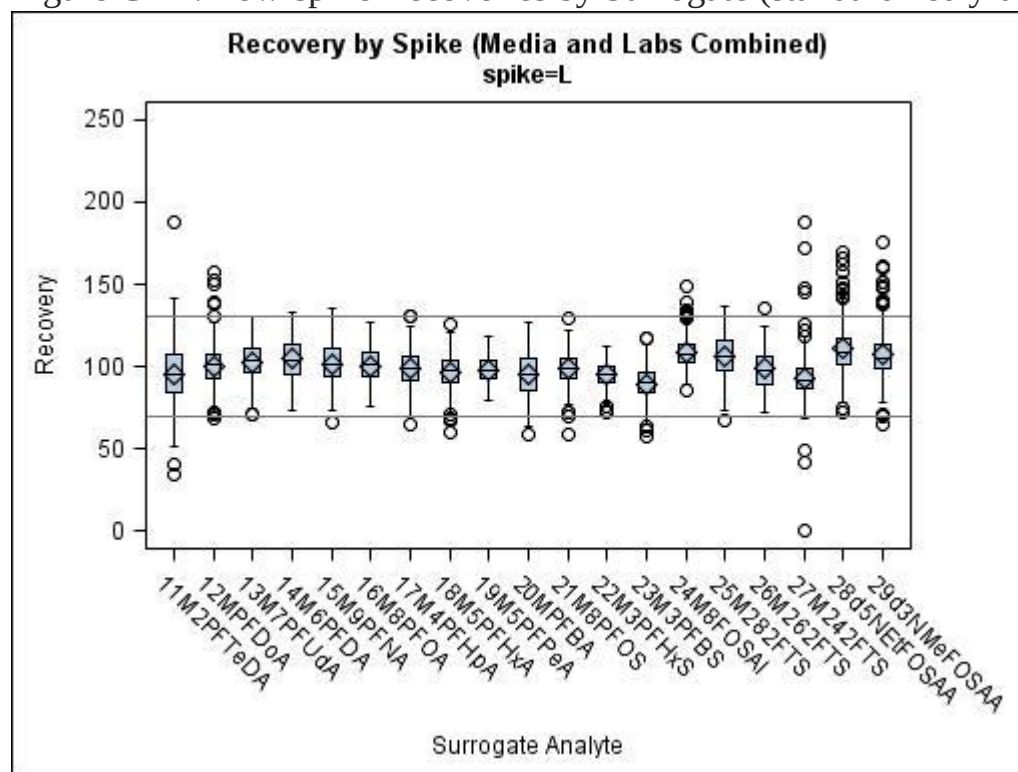


Figure C-13: High-spike Recoveries by Surrogate (standardized y-axis)

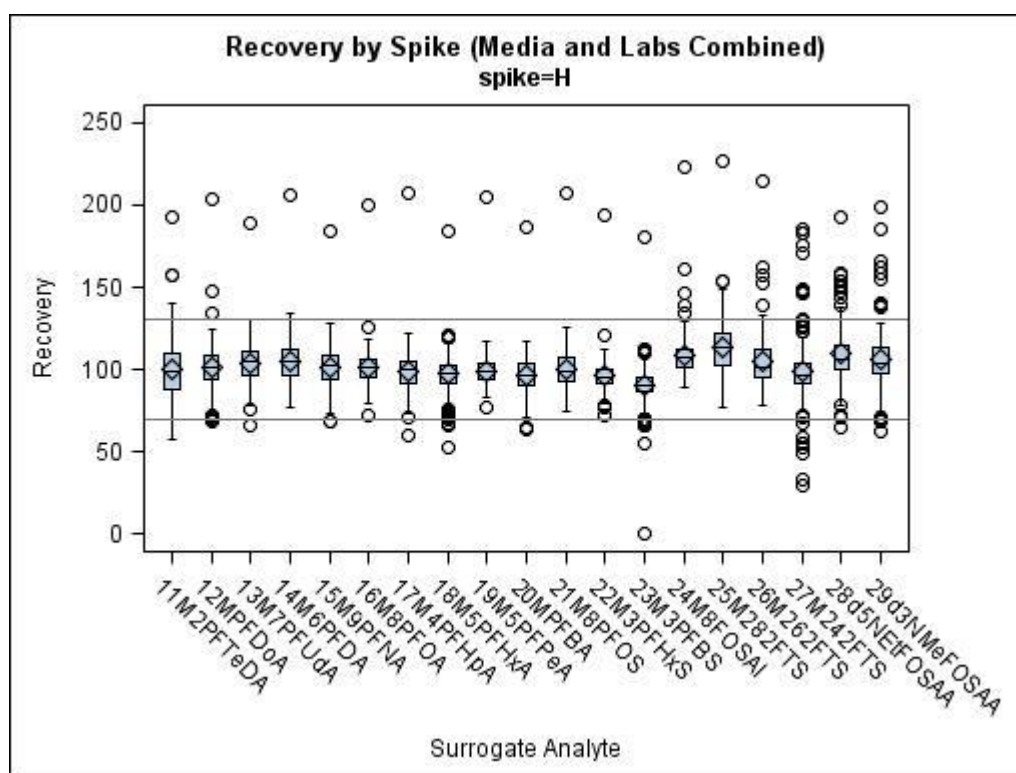


Table C-3: Summary Statistics by Analyte

Analyte	Replicate sets	Non-blank replicate sets	Sample number	Total sets with acceptable RSD	Percent sets with acceptable RSD	Total sets with acceptable median recovery	Percent sets with acceptable median recovery	Total samples with acceptable recovery	Percent samples with acceptable recovery	Total sets passing t-test	Percent sets passing t-test
PFTreA	96	64	479	96	100.0	55	85.9	261	81.8	19	29.7
PFTriA	96	64	479	96	100.0	59	92.2	267	83.7	23	35.9
PFDaA	96	64	479	96	100.0	57	89.1	272	85.3	26	40.6
PFUnA	96	64	479	96	100.0	61	95.3	290	90.9	27	42.2
PFDA	96	64	479	96	100.0	64	100.0	302	94.7	34	53.1
PFNA	96	64	479	96	100.0	64	100.0	313	98.1	29	45.3
PFOA	96	64	479	96	100.0	64	100.0	313	98.1	28	43.8
PFHpA	96	64	479	96	100.0	64	100.0	316	99.1	38	59.4
PFHxA	96	64	479	96	100.0	62	96.9	303	95.0	33	51.6
PFPeA	96	64	479	96	100.0	63	98.4	305	95.6	21	32.8
PFBA	96	64	479	96	100.0	60	93.8	272	85.3	16	25.0
PFDS	96	64	479	96	100.0	62	96.9	284	89.0	20	31.3
PFNS	96	64	479	96	100.0	62	96.9	292	91.5	18	28.1
PFOS	96	64	479	95	99.0	63	98.4	297	93.1	28	43.8
PFHpS	96	64	479	96	100.0	64	100.0	312	97.8	27	42.2
PFHxS	96	64	479	96	100.0	63	98.4	306	95.9	34	53.1
PFPeS	96	64	479	96	100.0	64	100.0	315	98.7	29	45.3
PFBS	96	64	479	96	100.0	64	100.0	311	97.5	36	56.3
PFOSA	96	64	479	96	100.0	62	96.9	306	95.9	18	28.1
FtS82	96	64	479	96	100.0	61	95.3	279	87.5	32	50.0
FtS62	96	64	479	89	92.7	45	70.3	204	63.9	30	46.9
FtS42	96	64	479	96	100.0	62	96.9	292	91.5	30	46.9
NEtFOSAA	96	64	479	95	99.0	57	89.1	270	84.6	28	43.8
NMeFOSAA	96	64	479	96	100.0	62	96.9	289	90.6	33	51.6

Table C-4: Summary Statistics by Surrogate

Analyte	Replicate sets	Non-blank replicate sets	Sample number	Total sets with acceptable RSD	Percent sets with acceptable RSD	Total sets with acceptable median recovery	Percent sets with acceptable median recovery	Total samples with acceptable recovery	Percent samples with acceptable recovery	Total sets passing t-test	Percent sets passing t-test
M2PFTeDA	96	96	479	96	100.0	94	97.9	428	89.4	41	42.7
MPFDoA	96	96	479	96	100.0	95	99.0	456	95.2	50	52.1
M7PFUdA	96	96	479	96	100.0	96	100.0	471	98.3	54	56.3
M6PFDA	96	96	479	96	100.0	96	100.0	469	97.9	50	52.1
M9PFNA	96	96	479	96	100.0	96	100.0	473	98.7	40	41.7
M8PFOA	96	96	479	96	100.0	96	100.0	476	99.4	52	54.2
M4PFHpA	96	96	479	96	100.0	96	100.0	469	97.9	40	41.7
M5PFHxA	96	96	479	96	100.0	95	99.0	467	97.5	55	57.3
M5PFPeA	96	96	479	96	100.0	96	100.0	477	99.6	43	44.8
MPFBA	96	96	479	96	100.0	94	97.9	466	97.3	44	45.8
M8PFOS	96	96	479	96	100.0	96	100.0	473	98.7	47	49.0
M3PFHxS	96	96	479	96	100.0	96	100.0	477	99.6	50	52.1
M3PFBS	96	96	479	95	99.0	95	99.0	454	94.8	51	53.1
M8FOSAI	96	96	479	96	100.0	95	99.0	463	96.7	57	59.4
M282FTS	96	96	479	96	100.0	95	99.0	442	92.3	52	54.2
M262FTS	96	96	479	95	99.0	96	100.0	465	97.1	53	55.2
M242FTS	96	96	479	93	96.9	95	99.0	439	91.6	47	49.0
d5NEtFOSAA	96	96	479	96	100.0	87	90.6	420	87.7	52	54.2
d3NMeFOSAA	96	96	479	96	100.0	92	95.8	432	90.2	53	55.2

Figure C-14: Recoveries by Analyte (standardized y-axis)

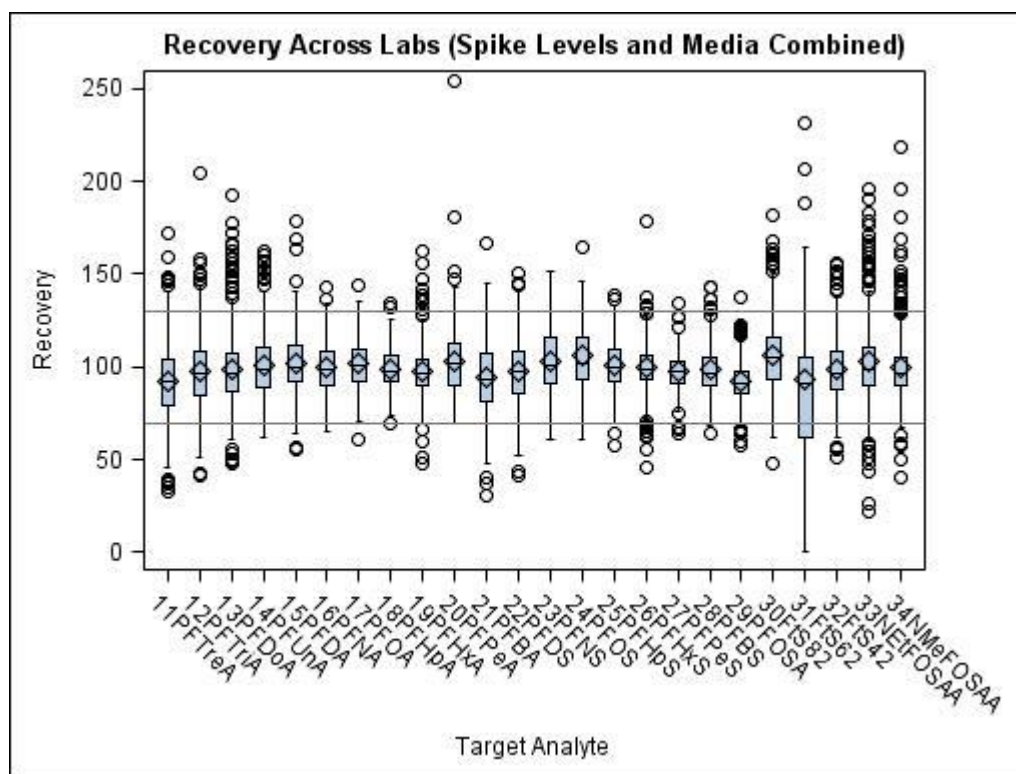
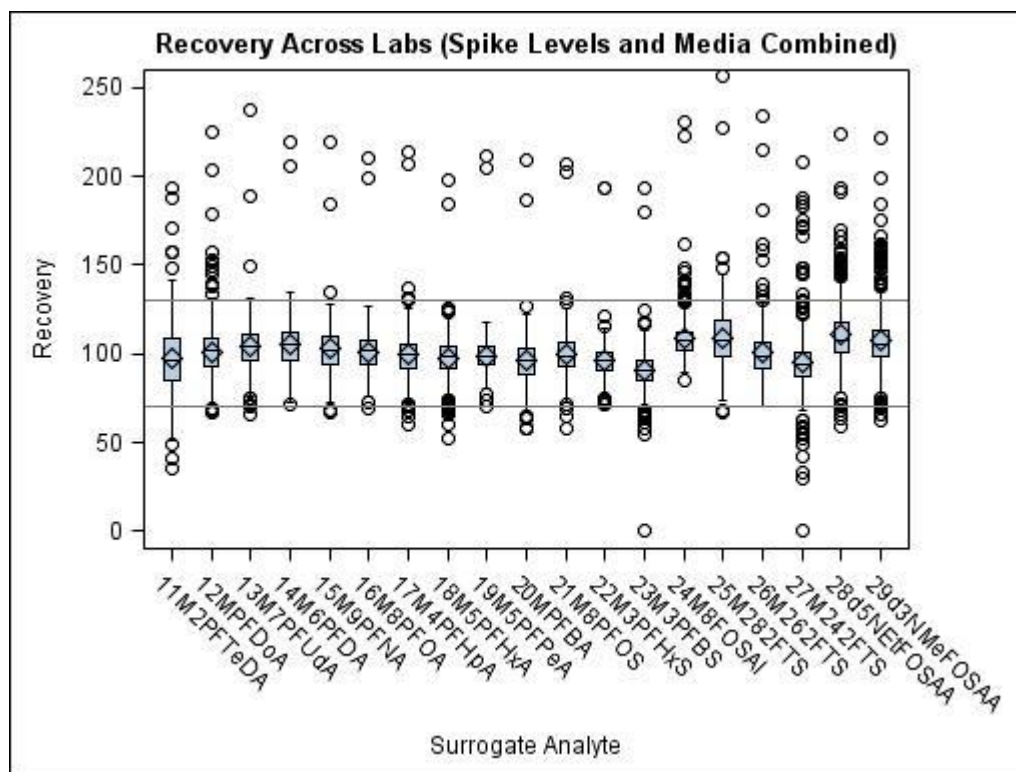


Figure C-15: Recoveries by Surrogate (standardized y-axis)



APPENDIX D INTRALABORATORY RESULTS TABLES AND GRAPHS

Table D-1: Summary Statistics by Lab

Lab	Analyte or Surrogate or Total	Replicate sets	Non-blank replicate sets	Sample number	Total sets with acceptable RSD	Percent sets with acceptable RSD	Total sets with acceptable median recovery	Percent sets with acceptable median recovery	Total samples with acceptable recovery	Percent samples with acceptable recovery	Total sets passing t-test	Percent sets passing t-test
2	A	288	192	1440	287	99.7	179	93.2	849	88.4	85	44.3
2	S	228	228	1140	228	100.0	227	99.6	1084	95.1	77	33.8
2	T	516	420	2580	515	99.8	406	96.7	1933	92.0	162	38.6
4	A	288	192	1440	288	100.0	184	95.8	845	88.0	114	59.4
4	S	228	228	1140	225	98.7	226	99.1	1053	92.4	150	65.8
4	T	516	420	2580	513	99.4	410	97.6	1898	90.4	264	62.9
5	A	288	192	1440	288	100.0	180	93.8	840	87.5	85	44.3
5	S	228	228	1140	228	100.0	214	93.9	1047	91.8	96	42.1
5	T	516	420	2580	516	100.0	394	93.8	1887	89.9	181	43.1
6	A	288	192	1440	288	100.0	189	98.4	935	97.4	71	37.0
6	S	228	228	1140	228	100.0	227	99.6	1102	96.7	112	49.1
6	T	516	420	2580	516	100.0	416	99.0	2037	97.0	183	43.6
10	A	288	192	1416	283	98.3	187	97.4	889	95.0	61	31.8
10	S	228	228	1121	227	99.6	226	99.1	1101	98.2	159	69.7
10	T	516	420	2537	510	98.8	413	98.3	1990	96.7	220	52.4
11	A	288	192	1440	286	99.3	184	95.8	905	94.3	98	51.0
11	S	228	228	1140	227	99.6	228	100.0	1119	98.2	67	29.4
11	T	516	420	2580	513	99.4	412	98.1	2024	96.4	165	39.3
12	A	288	192	1440	288	100.0	191	99.5	936	97.5	50	26.0
12	S	228	228	1140	228	100.0	228	100.0	1135	99.6	118	51.8
12	T	516	420	2580	516	100.0	419	99.8	2071	98.6	168	40.0
16	A	288	192	1440	287	99.7	170	88.5	772	80.4	93	48.4
16	S	228	228	1140	228	100.0	225	98.7	1076	94.4	152	66.7
16	T	516	420	2580	515	99.8	395	94.0	1848	88.0	245	58.3

Figure D-1: Recovery of All Target Analytes for Lab 2 (standardized y-axis)

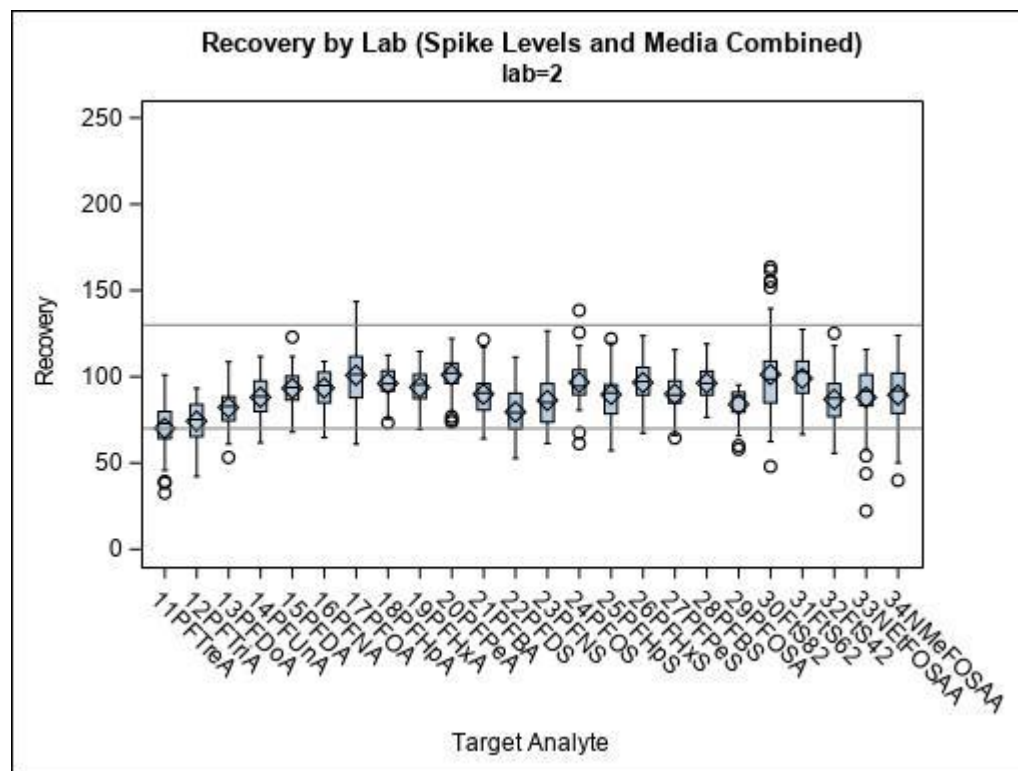


Figure D-2: Recovery of All Surrogate Analytes for Lab 2 (standardized y-axis)

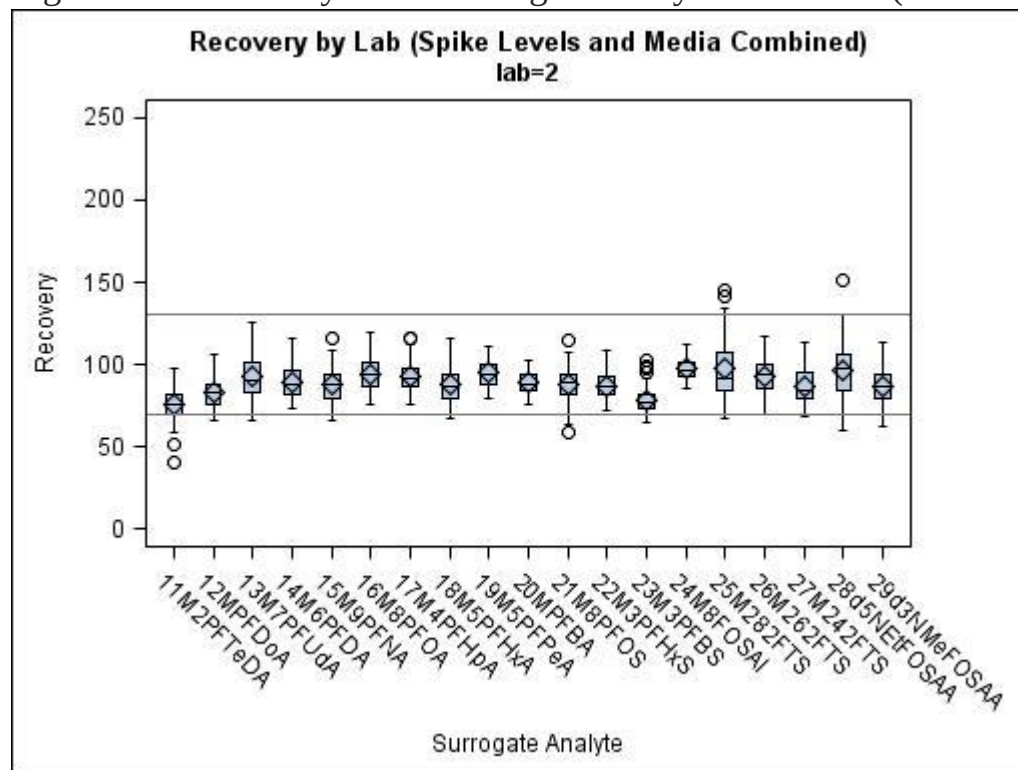


Figure D-3: Recovery of All Target Analytes for Lab 4 (standardized y-axis)

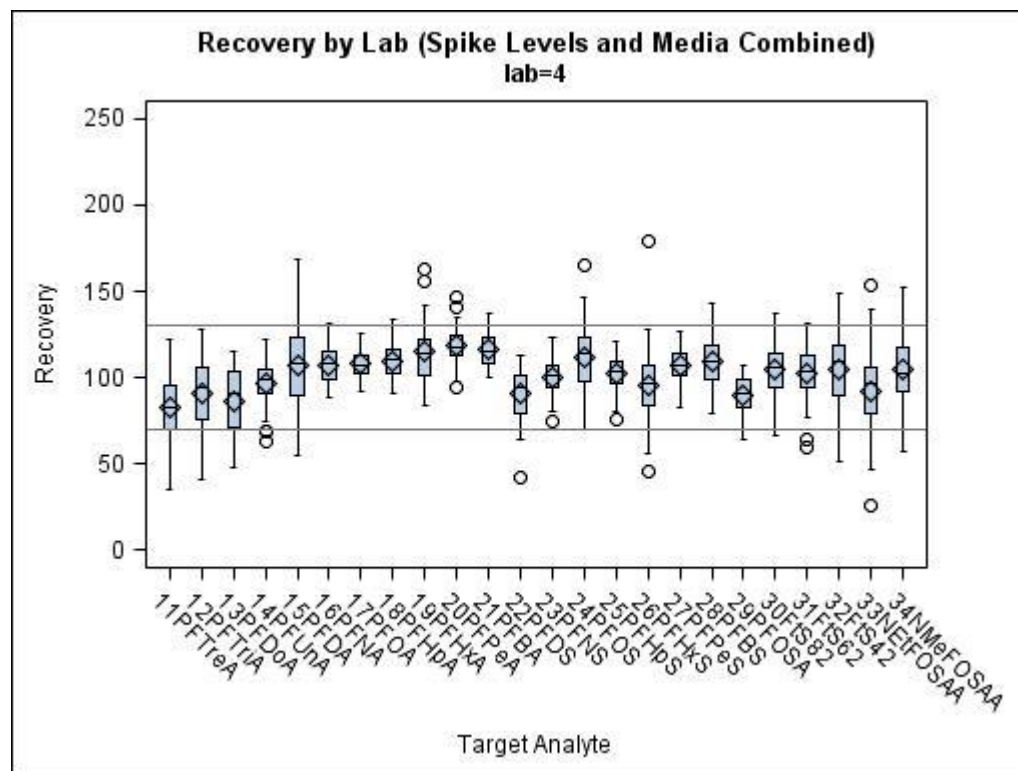


Figure D-4: Recovery of All Surrogate Analytes for Lab 4 (standardized y-axis)

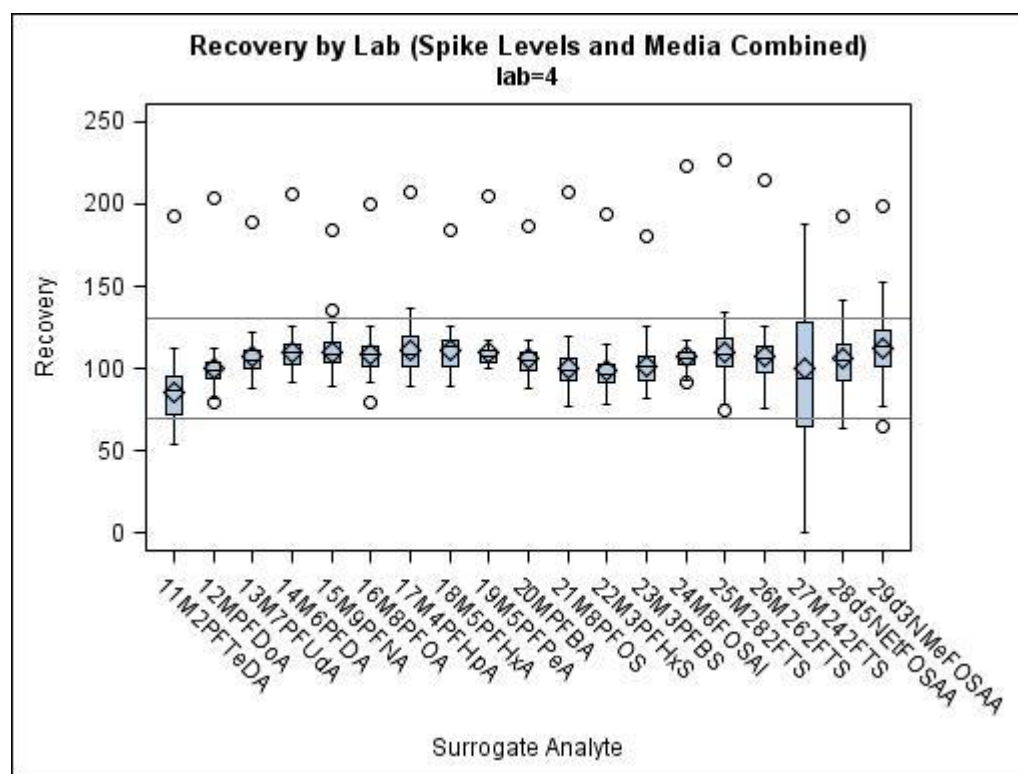


Figure D-5: Recovery of All Target Analytes for Lab 5 (standardized y-axis)

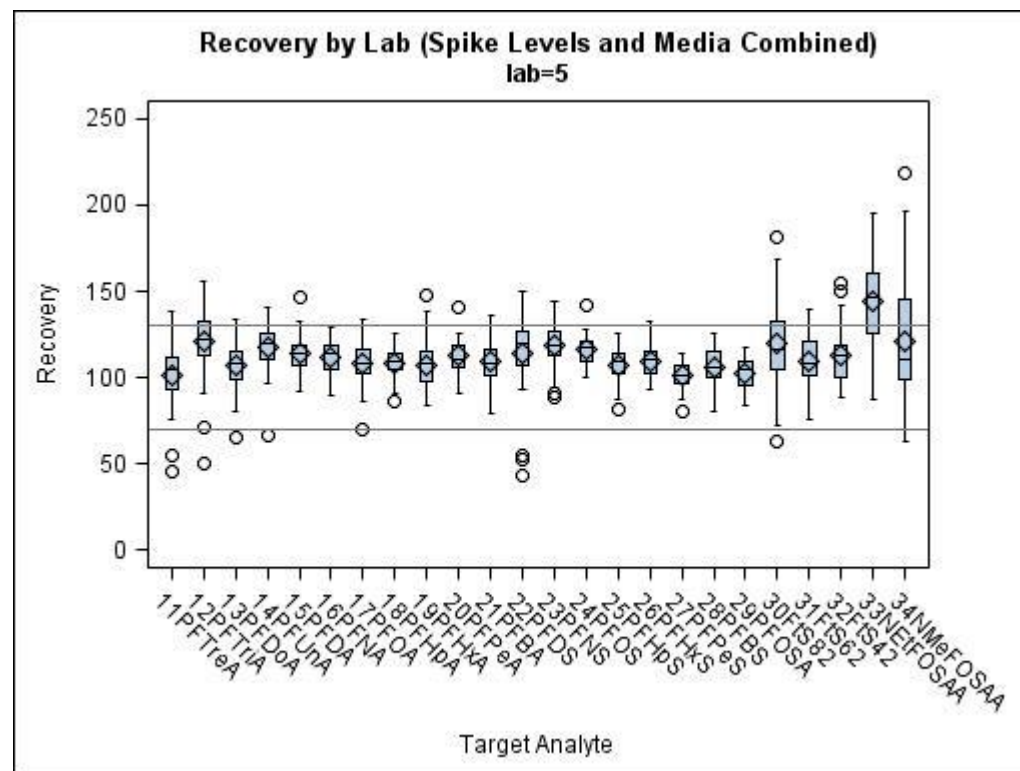


Figure D-6: Recovery of All Surrogate Analytes for Lab 5 (standardized y-axis)

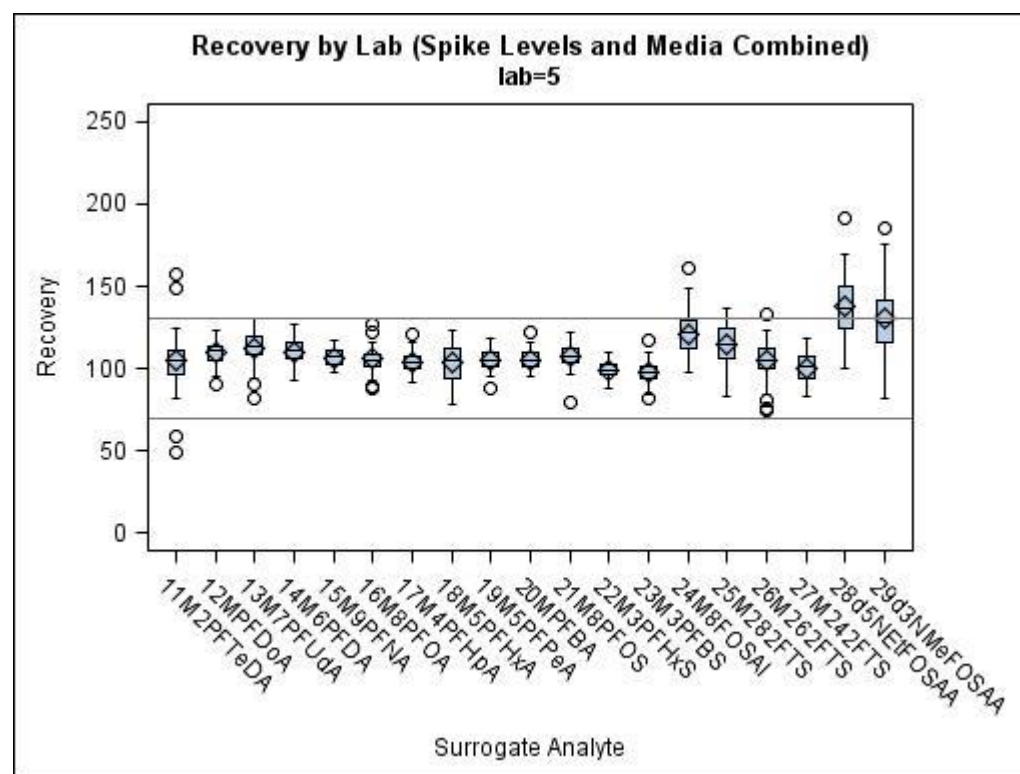


Figure D-9: Recovery of All Target Analytes for Lab 10 (standardized y-axis)

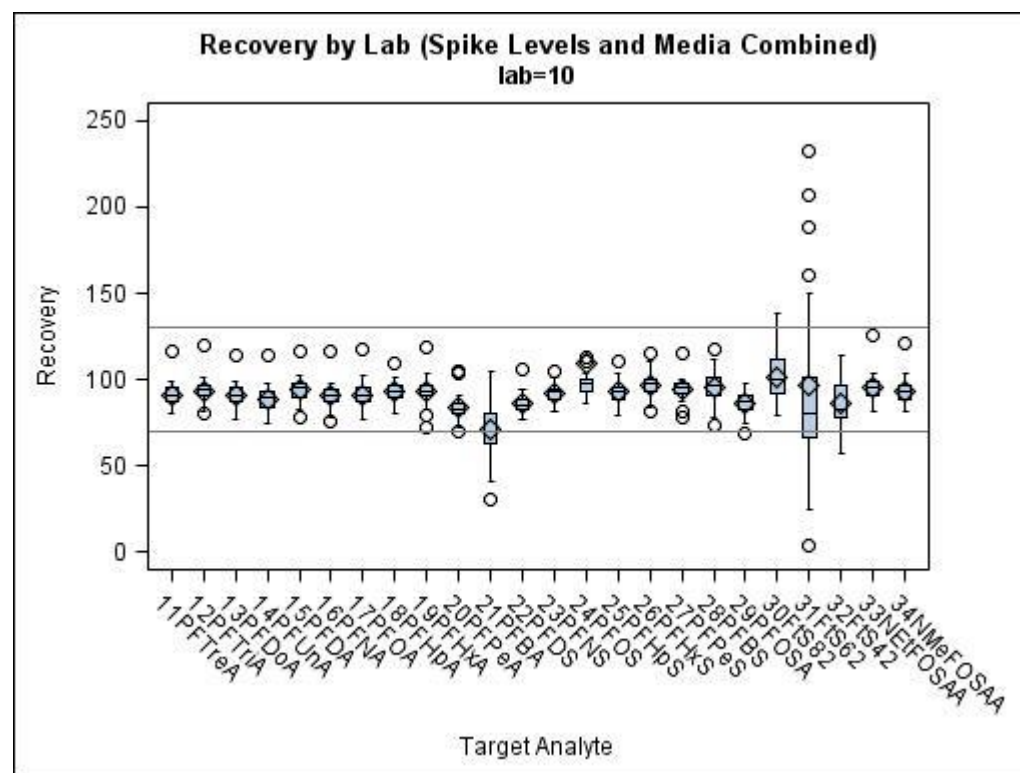


Figure D-10: Recovery of All Surrogate Analytes for Lab 10 (standardized y-axis)

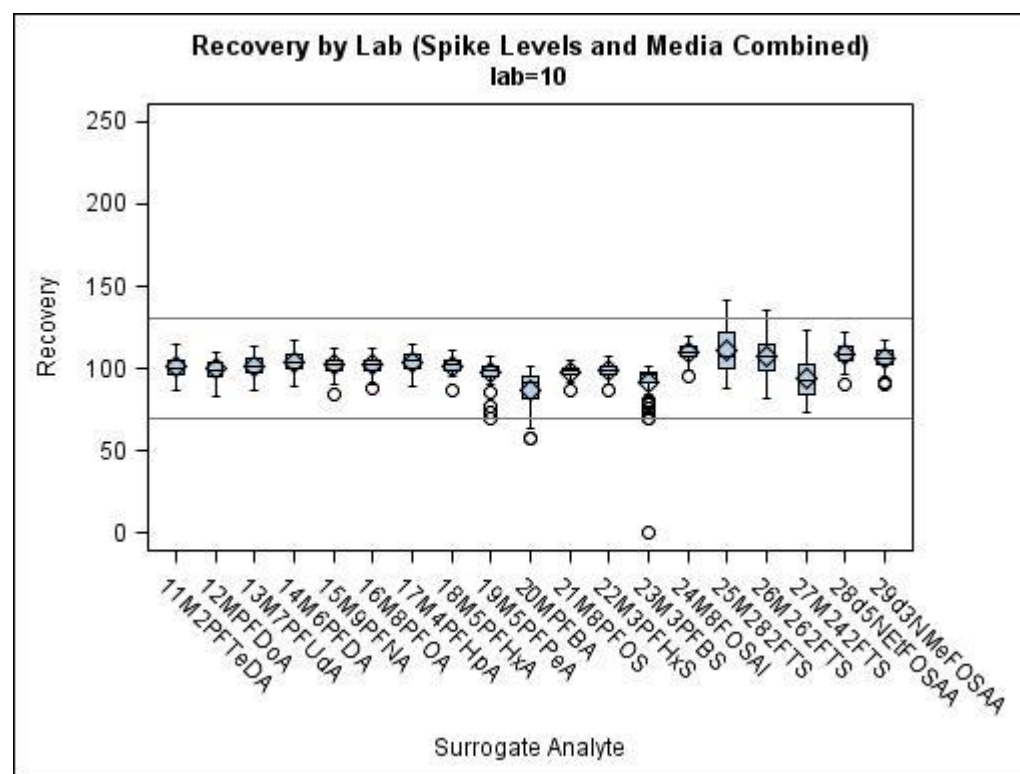


Figure D-11: Recovery of All Target Analytes for Lab 11 (standardized y-axis)

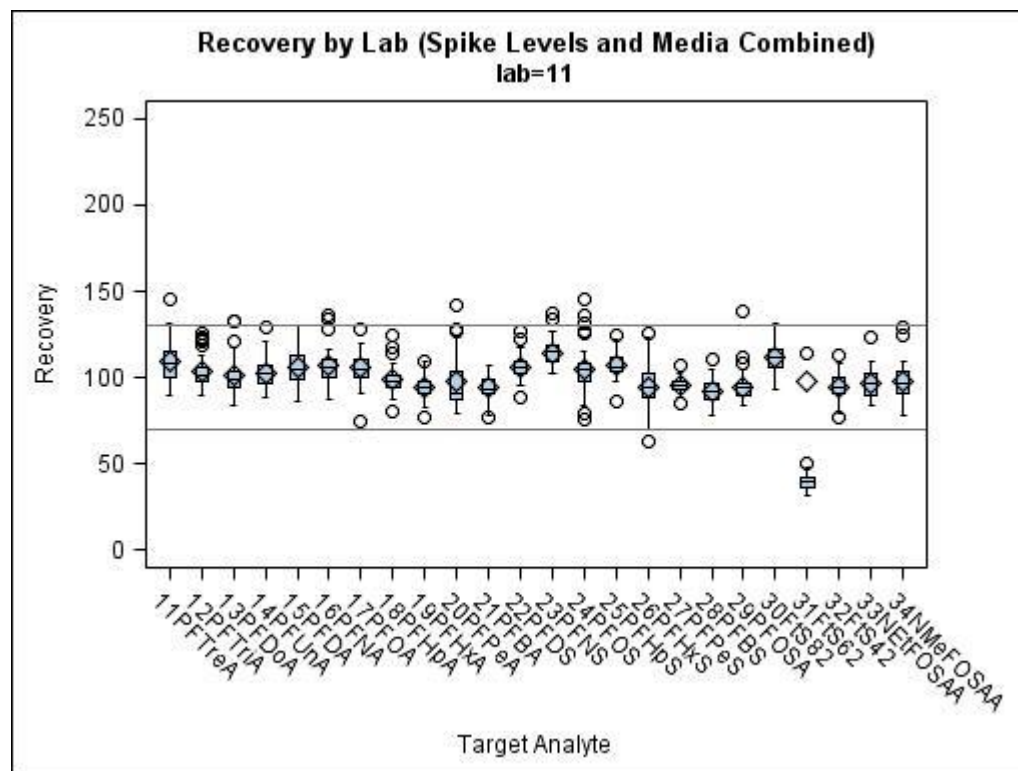


Figure D-12: Recovery of All Surrogate Analytes for Lab 11 (standardized y-axis)

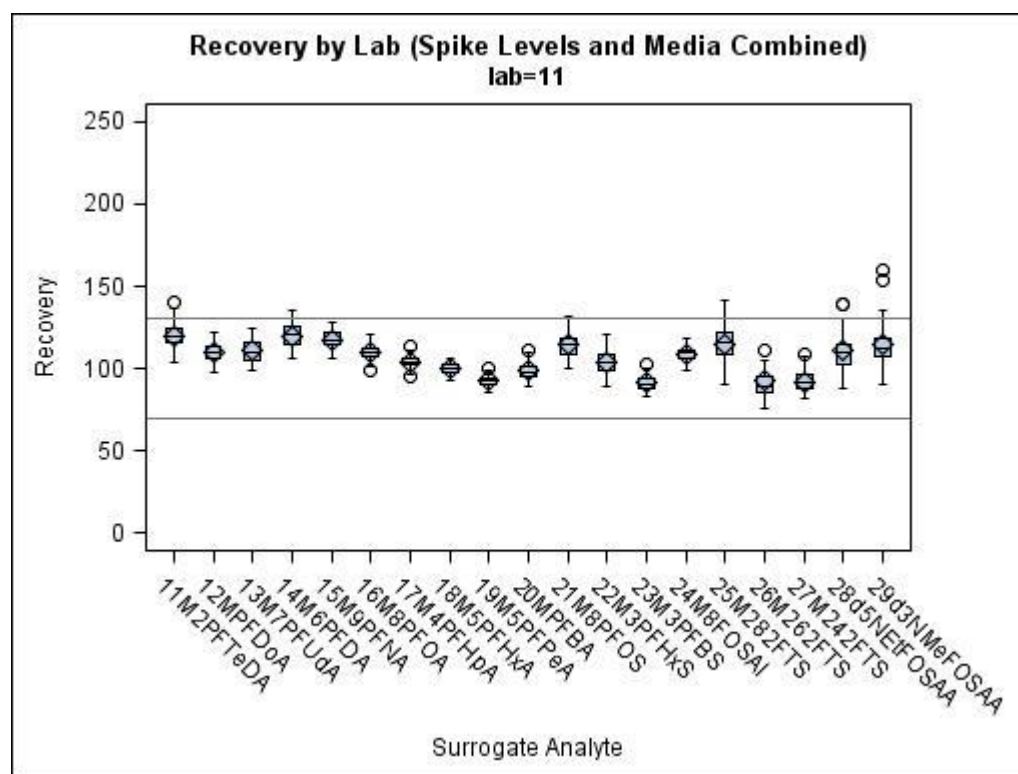


Figure D-13: Recovery of All Target Analytes for Lab 12 (standardized y-axis)

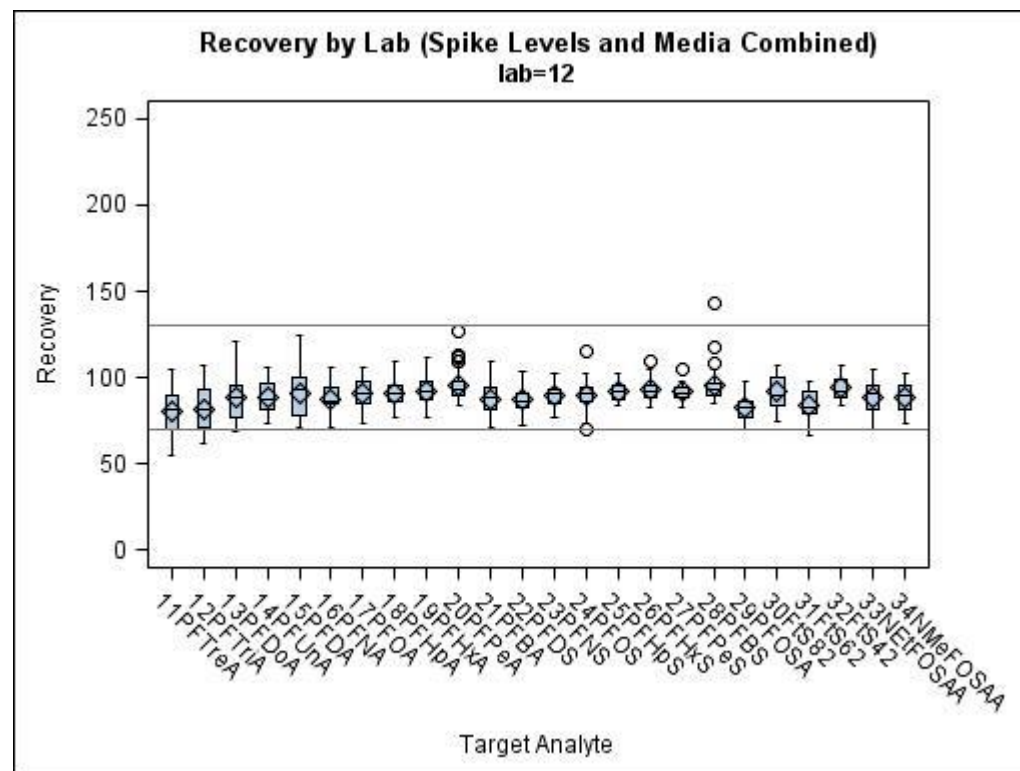


Figure D-14: Recovery of All Surrogate Analytes for Lab 12 (standardized y-axis)

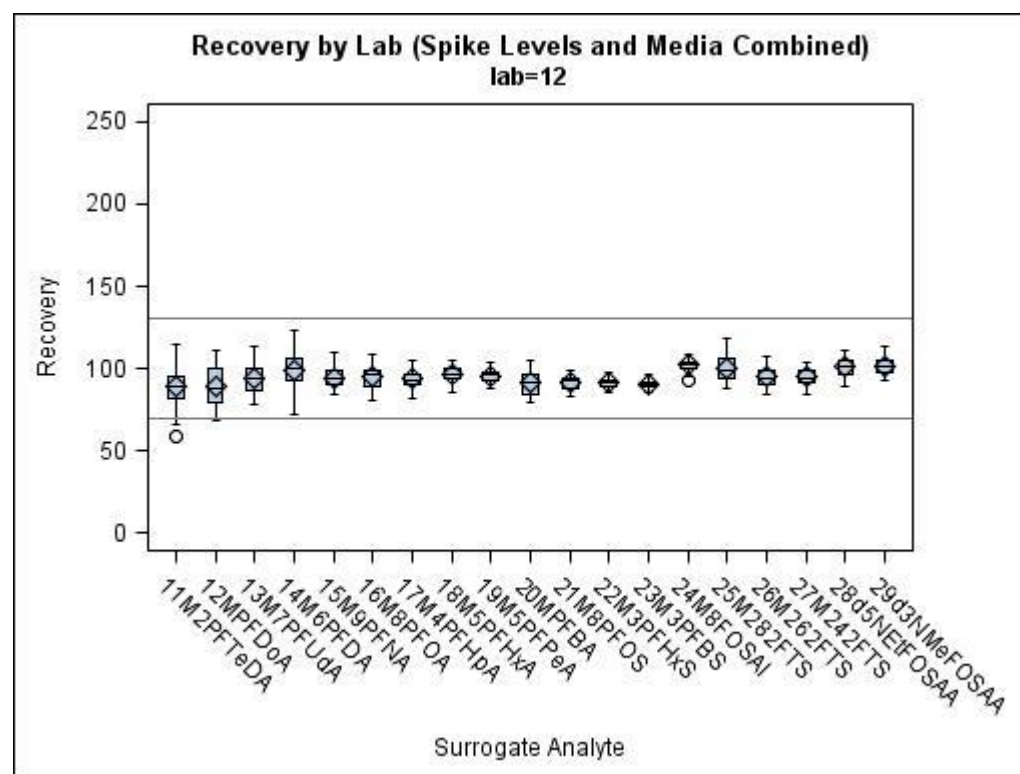


Figure D-15: Recovery of All Target Analytes for Lab 16 (standardized y-axis)

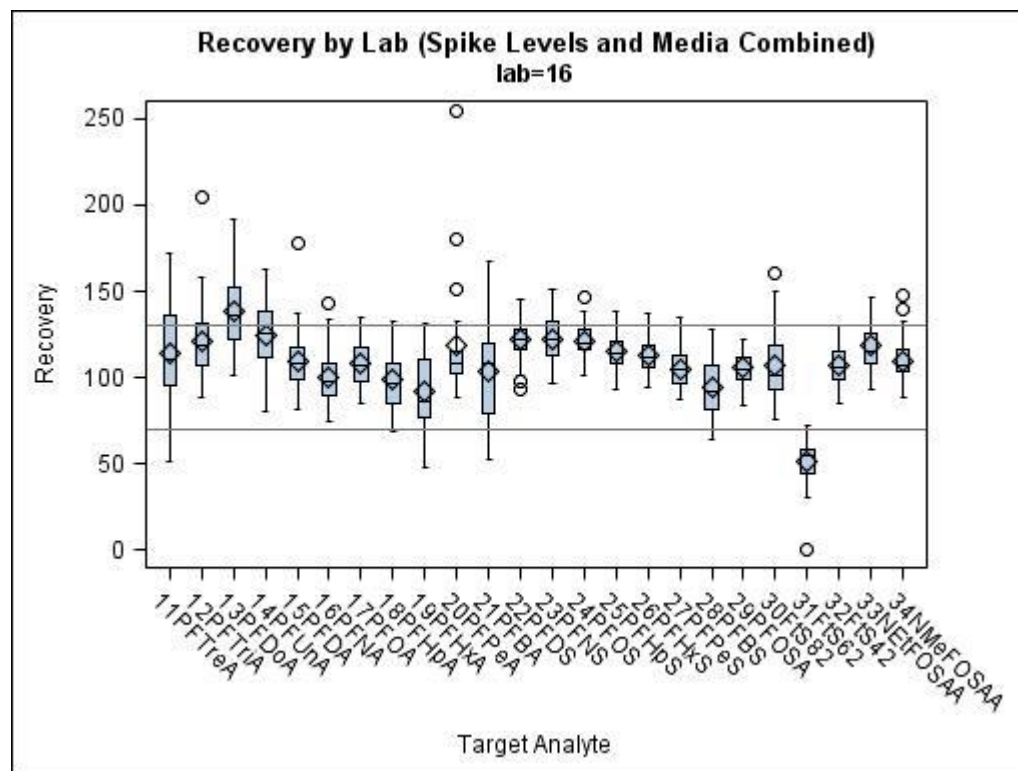
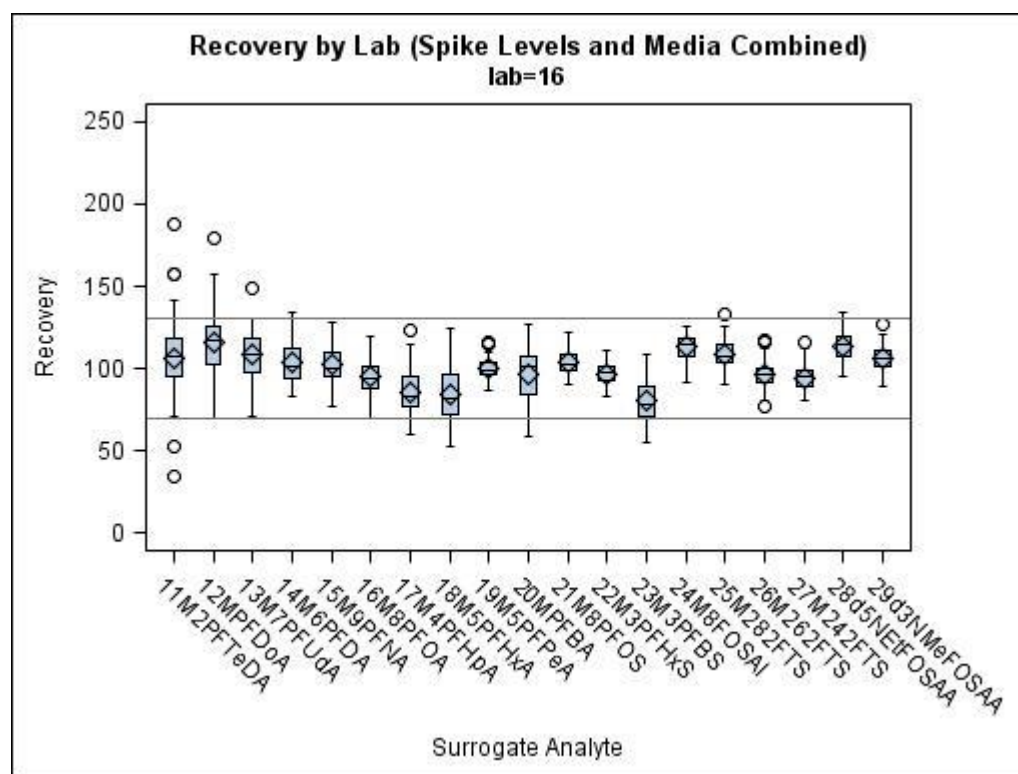


Figure D-16: Recovery of All Surrogate Analytes for Lab 16 (standardized y-axis)



**APPENDIX E JUSTIFICATION FOR EXCLUSION OF
LABORATORIES FOR VALIDATION OF METHOD 8327**

Internal and external laboratories that submitted data for the validation of Method 8327 were sent a survey so that a consistent rationale for inclusion vs. exclusion of data could be determined. TechLaw was tasked with validating the data according to the method, QAPP, and study instructions. Both were used in developing the rationale for exclusion.

The following laboratories were excluded with the rationale provided:

Laboratory 1:

Method Deviation: Target compounds stock and surrogate spiking solutions were prepared at concentrations of 20 ng/mL in 1:1 methanol-water containing 0.1% acetic acid using borosilicate glass vials and rubber lined plastic caps. The method states that these are to be prepared in 95:5 ACN-water (to keep longer chain PFAS in solutions at higher concentrations). Use of borosilicate glass and rubber septa is not recommended.

QC Issues: TechLaw validation report states “The data provided by the laboratory contains numerous quality control defects as well as elevated reporting limits.” Initial calibrations did not meet the minimum criteria for curve fit (R^2), minimum number of points, and/or refit criteria for many of the compounds, and multiple CCV failures were observed. [After the validation reports were completed, SW-846 PFAS workgroup opined that analysis should have halted until minimum criteria were met]. Also, 47% of surrogates failed to meet preliminary recovery limits of 70-130% used as a benchmark for acceptable laboratory performance and comparability of data in study samples (all other labs whose data was included in the statistical analysis had a failure rate of 7% or less). Four or more surrogates did not meet the recovery limits in 100% of study samples (compared with a maximum of 5% of study samples from other labs whose data was included in the statistical analysis). Results for most target analytes were qualified during validation due to calibration and/or surrogate QC failures. Given the laboratory QC issues observed in this data set, Laboratory 1’s study sample data cannot be directly compared to or pooled with data from other labs.

Laboratory 3:

Method Deviations: At the time of the study, the method developer reported that in the developer’s opinion the laboratory was deviating from the method. However, deviations could not be confirmed during the survey.

QC Issues: Lab 3 stated in survey “The responses of some compounds in standard solutions and in fortified samples were erratic during analyses on our instrument. The causes have not yet been determined.” Initial calibration for one analysis batch did not meet the minimum criteria for curve fit (R^2) and/or refit criteria for many of the compounds, and multiple CCV failures were observed. [After the validation reports were completed, SW-846 PFAS workgroup opined that analysis should have halted until minimum criteria were met]. Also, 19% of surrogates failed to meet preliminary recovery limits of 70-130% used as a benchmark for acceptable laboratory performance and comparability of data in study samples (compared to a maximum of 7% of surrogates in study samples from other labs whose data was included in the statistical analysis). Four or more surrogates did not meet the recovery limits in 37% of study samples (compared with a maximum of 5% of study samples from other labs whose data was included in the statistical analysis). Results for most target analytes were qualified during validation due to calibration and/or surrogate QC failures. Given the laboratory QC issues observed in this data set, Laboratory 3’s study sample data cannot be directly compared to or pooled with data from other labs.

Laboratory 13:

Method Deviation: Target compounds stock and surrogate spiking solutions were prepared at concentrations of 20 ng/mL in 1:1 methanol-water containing 0.1% acetic acid. The method states that these are to be prepared in 95:5 ACN-water (to keep longer chain PFAS in solutions at higher concentrations).

Note: The laboratory reprocessed these samples with calibration standards prepared from stock standards in methanol and significantly improved recoveries and precision were observed. However, samples were analyzed over a period of a couple of days prior to the associated initial calibration standards, which was a significant deviation from the study instructions. Therefore, study sample data from Laboratory 13 were not included with data from the other laboratories in the statistics summary or in this data validation summary.

Laboratory 15:

Method deviation: A subsample was removed from the original container prior to preparation (0.5 ml prepared instead of whole 5 ml). Low to no recoveries were observed for mid to longer chain PFAS in all study samples.

Note: The laboratory prepared the remaining 4.5 ml of sample following the correct method protocol and mid and longer chain PFAS were recovered at expected concentrations. Data could not be included due to the high bias associated with mid and longer chain PFAS.