CHEM 314: Standard Addition grading rubric

____/50 pts Total

____/10 pts Lab Technique

Determined based on efficiency and preparedness for lab in addition to the accuracy and precision of measurements.

____/10 pts Standard Addition Plots (3)

Graphs present, and professionally presented with a title, axes labels, line of best fit, r-squared value, and error bars.

____/5 pts Summary Table

Table completely filled in with lines of ebst fit, r-squared values, and concentration of dye including an estimate of error.

____/10 pts S_x Calculation

Hand written and easy to understand estimation of error.

____/15 pts Discussion

Compare results on the basis of S:N, standard addition graphs, concentrations of Red #40, and error associated with measurements. State how matrix effects would be detected and if there is evidence for them in your data.