Directions:

 Based on the information provided by the L-J chart, determine the assigned mean and assigned SD in umol/L. Based on your visual examination of the chart, approximate the observed mean and observed SD in umol/L. Fill in the blank spaces with your responses.

 Draw the Gaussian curve using the assigned mean and assigned SD on the L-J chart. Draw another Gaussian curve using the observed mean and observed SD. Label the following sections of the curves as: true accept, false reject, false accept. Refer to Job Aid 1: Possible Outcomes for assistance.





Using the assigned mean, what are the values (umol/L) for ± 2SD control limits?

Using the observed mean, what are the values (umol/L) for ± 2SD?

We expect that 68% of the measurements lie between -1SD and +1SD control limits when the assigned = observed on the chart. However, on this chart where the Mean assigned ≠ Mean observed, 68% of the data points lie between what control limits?

95% of the data points lie between what control limits?

What QC Rule(s) are violated on the chart when the assigned mean ≠observed mean

|  |  |  |
| --- | --- | --- |
| **Run Number** | **Rule(s) Violated** | **Interpret the Control Measurement (true accept, false reject, or false accept)** |
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The data points used in Chart #4 are identical to the data points used in Chart #1 (a stable population normally distributed). When compared to Chart #1, there is an increase / decrease in rule violations and this is because……

Circle one

If the next measurement (Run #31) is 81 umol/L, what type of outcome would be given to that value? Refer to Job Aid 1: Possible Outcomes, if needed.

Draw the Gaussian curves of the assigned and observed populations on the next page of the worksheet.

Label the following sections of the curves as: true accept, false reject, false accept.