



Parameters:

Amplitude = 54.1704 +/- 0.519731
 Mean x = 3.51695 +/- .00541317
 Sigma x = 0.989424 +/- 0.00705671
 Mean y = 1.89914 +/- 0.0150996
 Sigma y = 1.95374 +/- 0.0177029
 Background Scale Value = 0.242787 +/- 0.00227717

Signal Events:

Number of Signal Events = 658 +/- 10

Explanation: If we consider each signal event to make up a portion of the signal, then the number of signal events is simply the volume under the gaussian signal. This is defined, per the wikipedia article on Gaussian functions, to be $2 * \pi * \text{Amplitude} * \sigma_x * \sigma_y$. For the error I simply took the error of each of these variable quantities and used the appropriate error propagation formula to come to a result.