Eqn Ps = spec_power(dBm(fs(RX_in[::,::,1],,,,,"Kaiser")),-1e5,1e5) - WindowGain

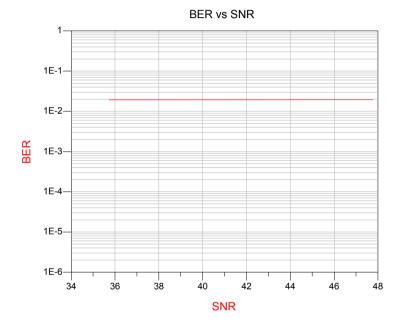
Eqn Pn = wtodbm(dbmtow(spec_power(dBm(fs(RX_in[::,::,1],,,,,"Kaiser")),-4e5,-3e5)) + dbmtow(spec_power(dBm(fs(RX_in[::,::,1],,,,,"Kaiser")),3e5,4e5))) - WindowGain

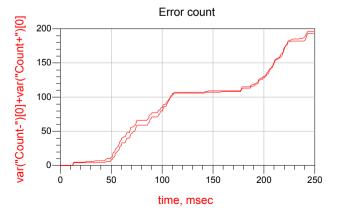
Eqn KaiserNENBW = 1.653 Eqn WindowGain = 10*log10(KaiserNENBW)

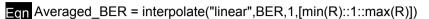
Egn MeanPn = mean(Pn)

gn SNR = Ps - MeanPn

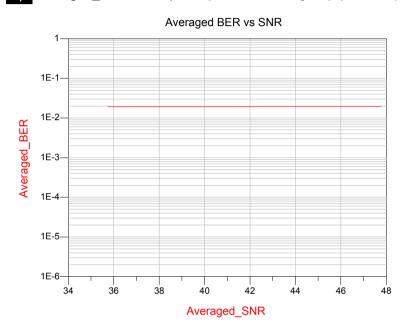
Eqn BER = real(max(var("Count-")[::,::,0])+max(var("Count+")[::,::,0])) / Bits[0,0]







Eqn Averaged_SNR = interpolate("linear",SNR,1,[min(R)::1::max(R)])



Link budget simulation results

| R | Ps | Pn | BER | SNR | MeanPn |
|-----------------------|--------------------------|----------------------------|----------------------|------------------------|-------------|
| 100.000000 200.000000 | -70.029760 -82.069408 | -117.829843 -117.769187 | 0.019600 0.019300 | 47.769755 35.730107 | -117.799515 |
| | | | | | |