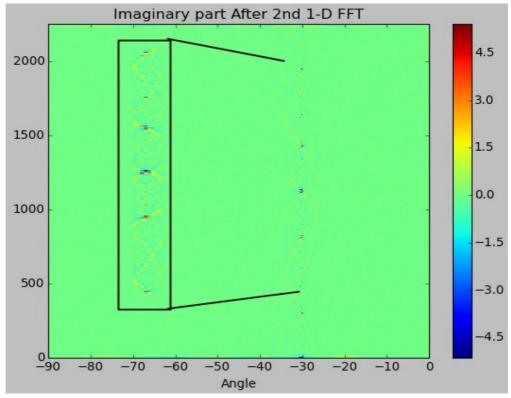
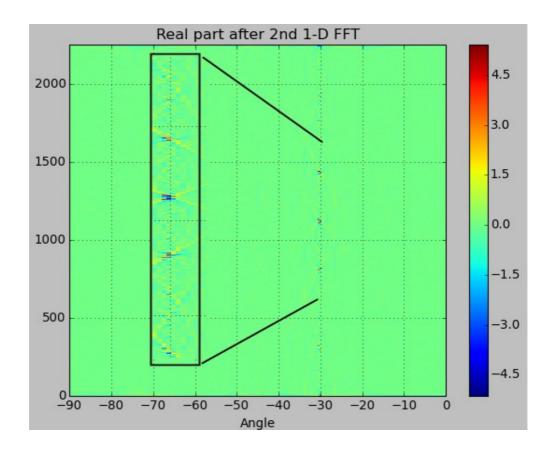
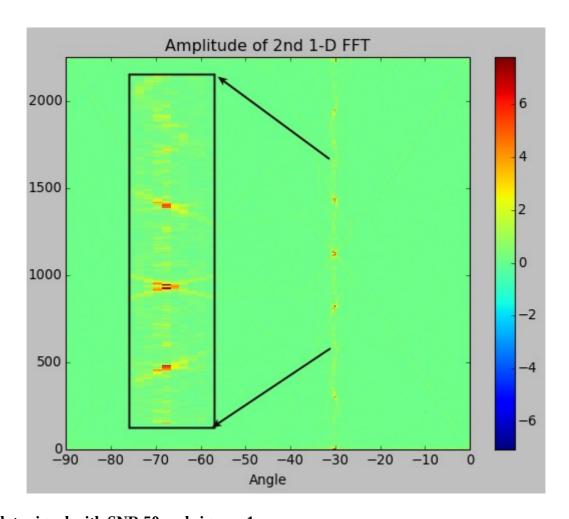
The following pictures are the 2nd 1-D FFT along the y-axis. We found the image is changing with the SNR and the width of the signal. In the simulation, We use a Gaussian form for each frequency varied with time. So we use the sigma to change the width of the simulated signal. (The simulate signal has not been done the fft-shift during the 2nd FFT ,because I thought the points are obviously. The pulsar and FRB data have been done the fft-shift along the y-axis.)

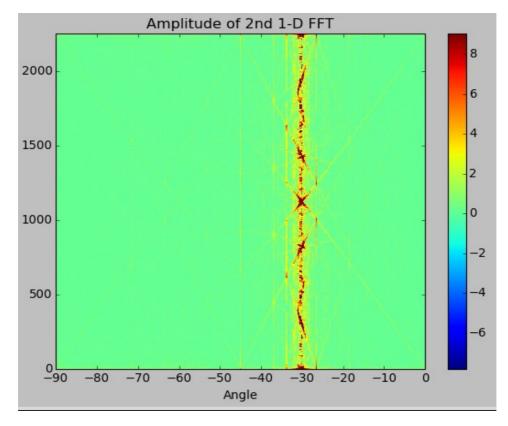
Simulate signal with SNR 5 and sigma=1:

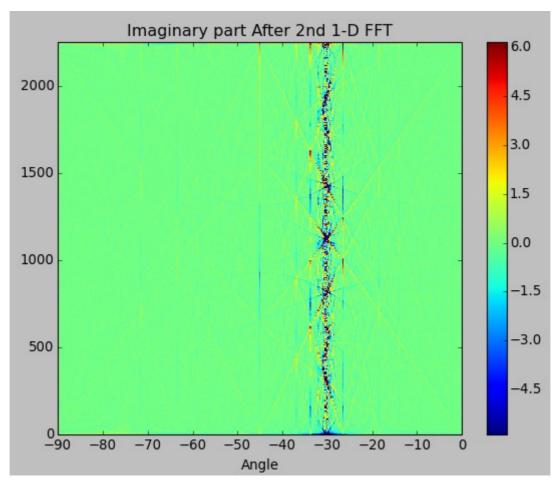


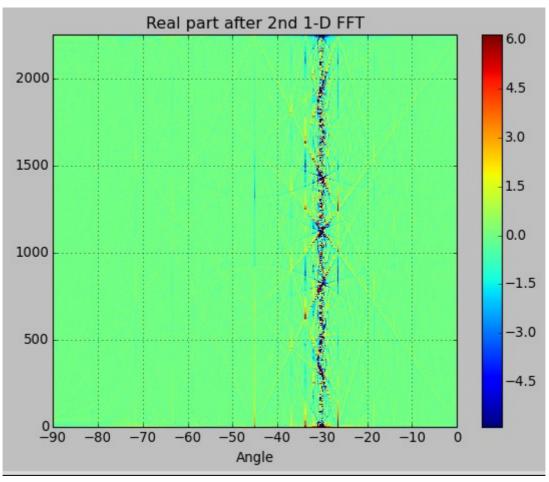




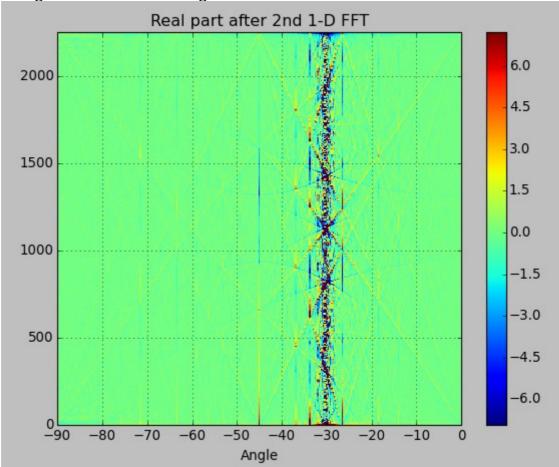
Simulate signal with SNR 50 and sigma= 1:



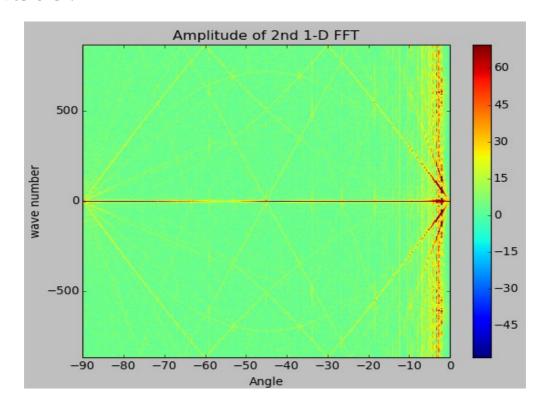


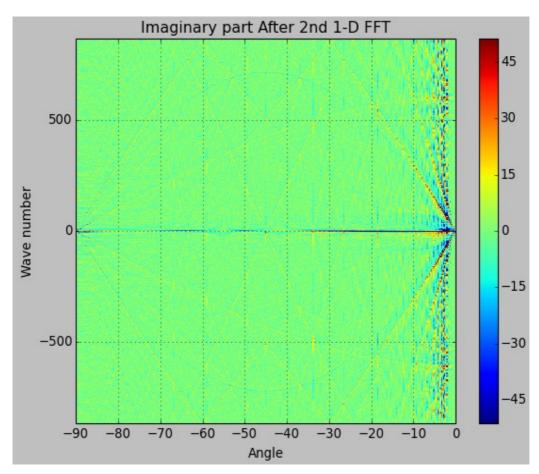


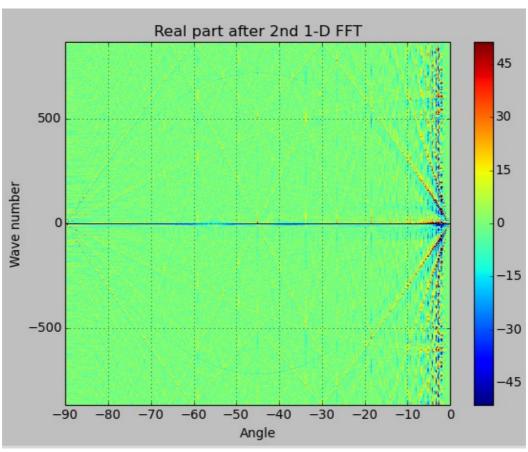
Simulate signal with SNR 50 and sigma= 5:



Pulsar B0329+54:







FRB 110523:

