Section II – Figures

Figure 1: 1.ii, Squares of Fourier Coefficients v. DFT Index

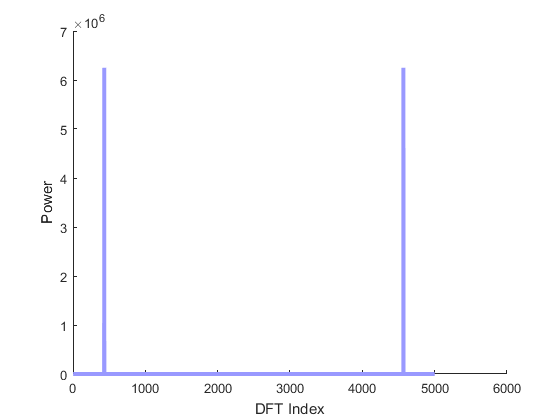


Figure 2: 1.iii, Squares of Fourier Coefficients v. Physical Frequency

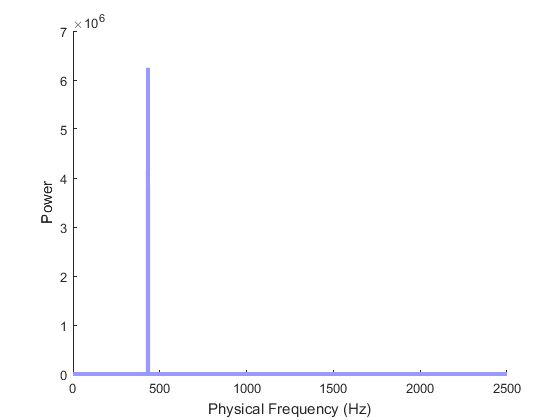


Figure 3: 1,iv Sum of Sinusoidal Signals Power

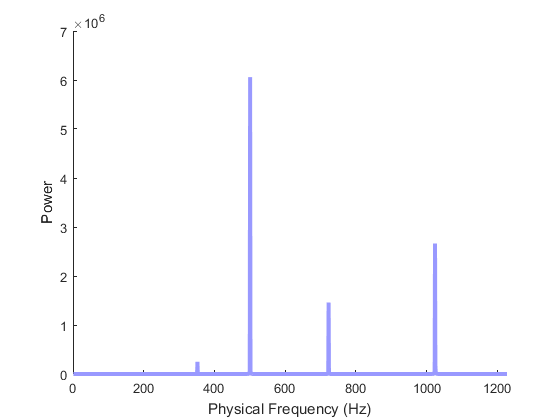


Figure 4: 1.v, Power Spectrum with Noise

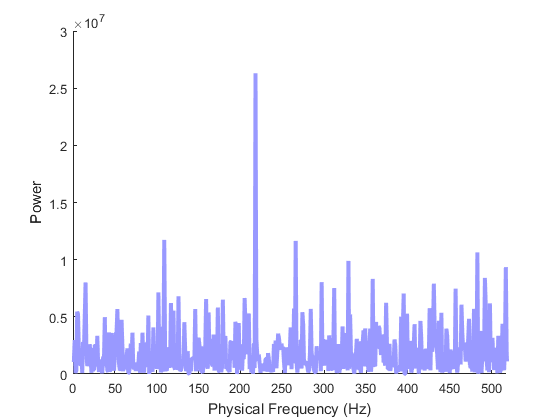


Figure 5: Noise Level 1, Time Domain

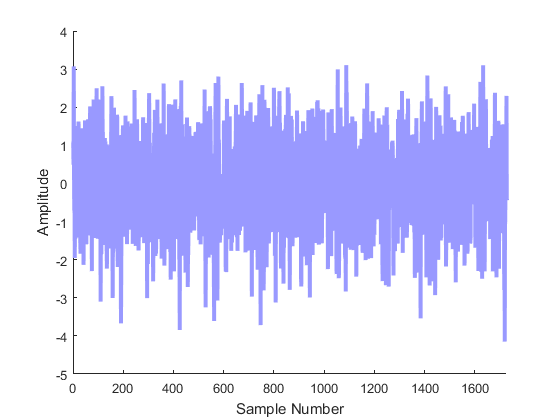


Figure 6: Noise Level 1, Power

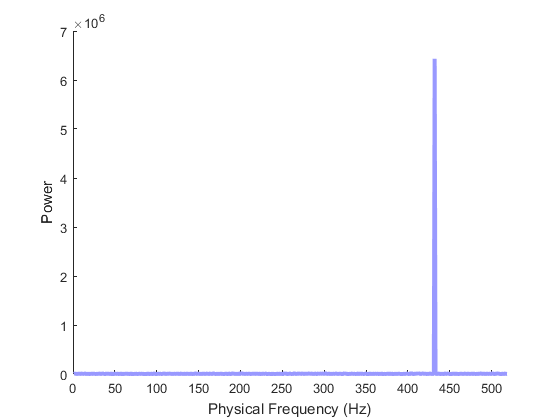


Figure 7: Noise Level 2, Time Domain

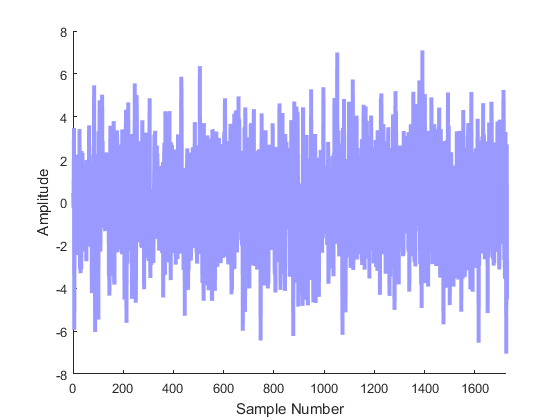


Figure 8: Noise Level 2, Power

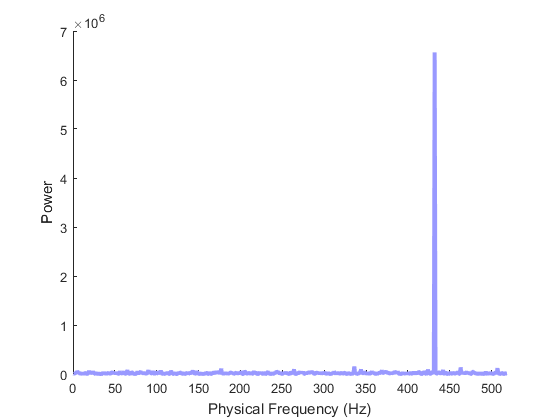


Figure 9: Noise Level 3, Time Domain

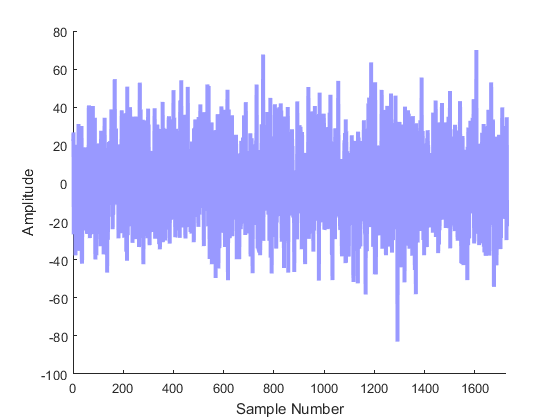


Figure 10: Noise Level 3, Power

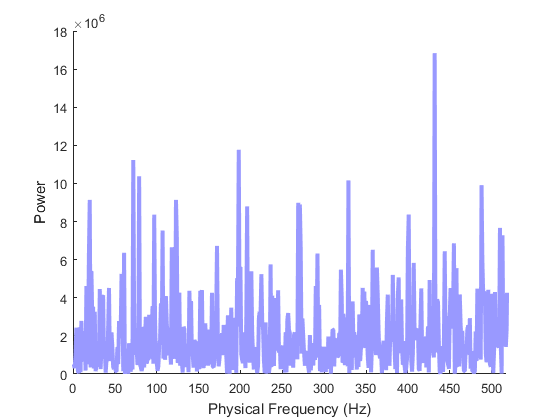


Figure 11: Power Spectrum of 'lab3prob2sound1.wav'

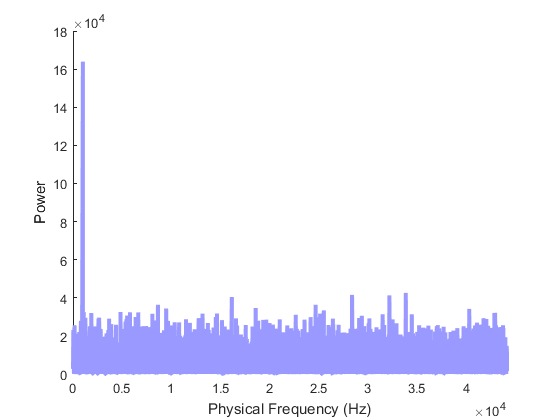


Figure 12: Power Spectrum of 'lab3prob2sound2.wav'

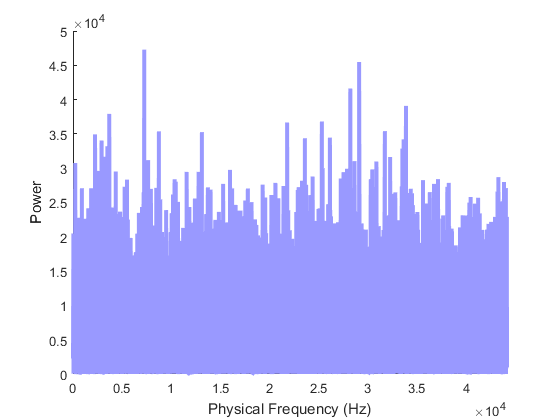


Figure 13: Power Spectrum of 'lab3prob2sound3.wav'

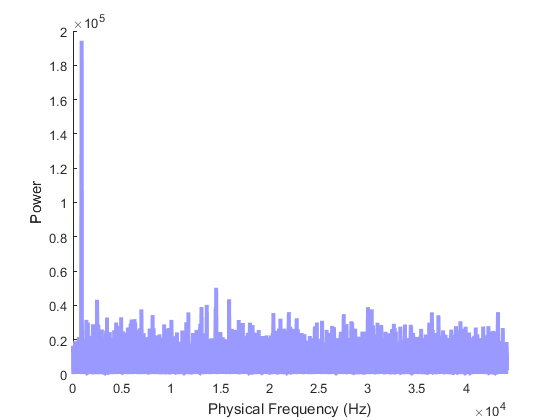


Figure 14: Power Spectrum of 'lab3prob2sound4.wav'

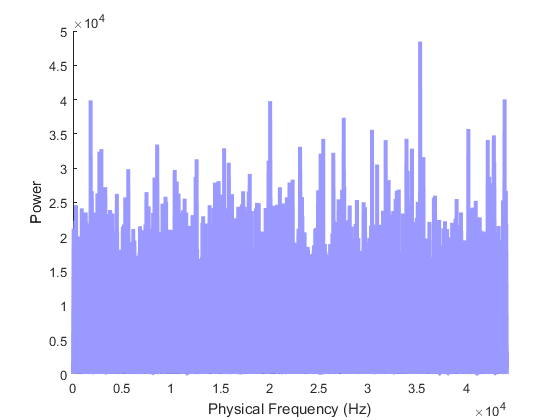


Figure 15: Power Spectrum of Filtered 'lab3prob2sound2.wav'

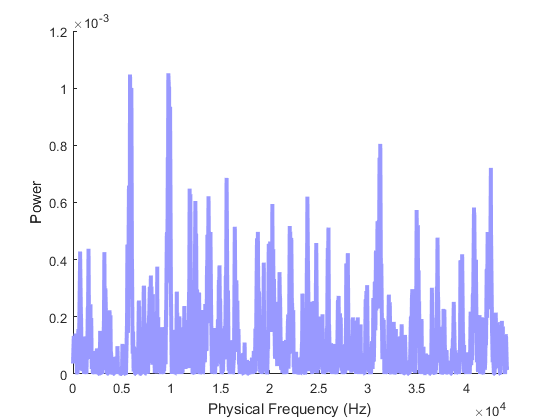


Figure 16: Power Spectrum of Filtered 'lab3prob2sound4.wav'

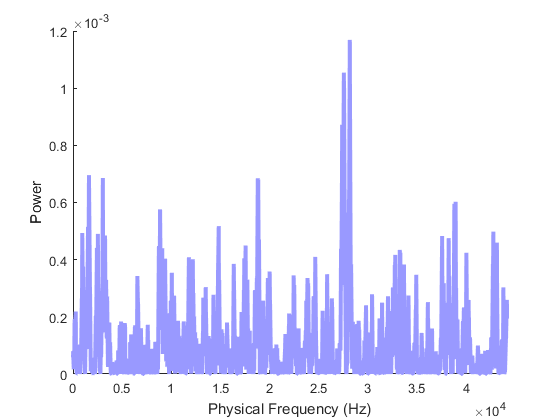


Figure 17: Power Spectrum of 'guitar-note.wav'

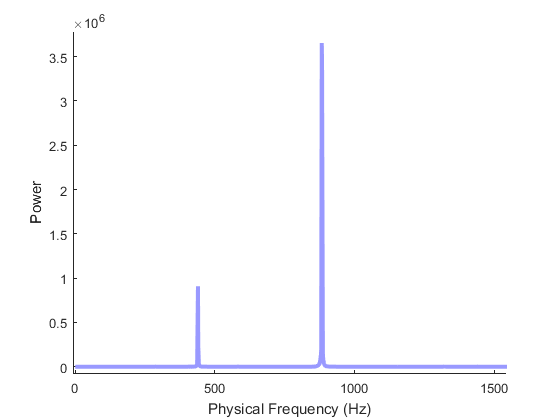


Figure 18: Lowpass Filter Response (Length 20)

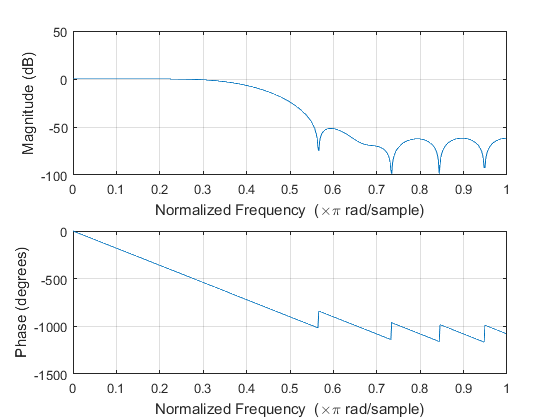


Figure 19: Lowpass Filter Response (Length 200)

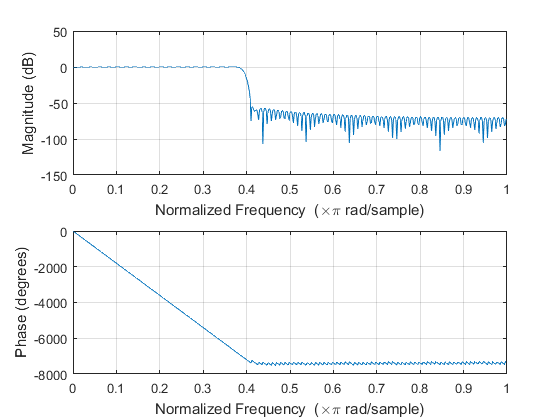


Figure 20: Highpass Filter Response (Length 20)

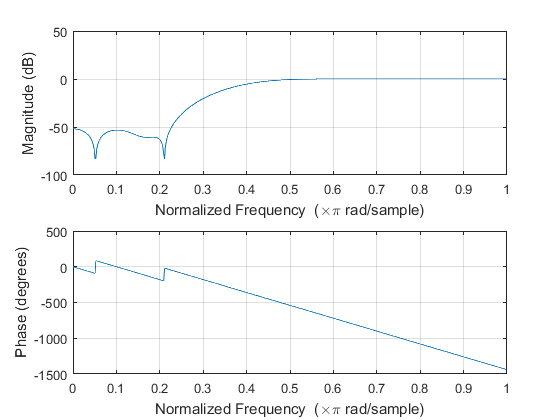


Figure 21: Highpass Filter Response (Length 200)

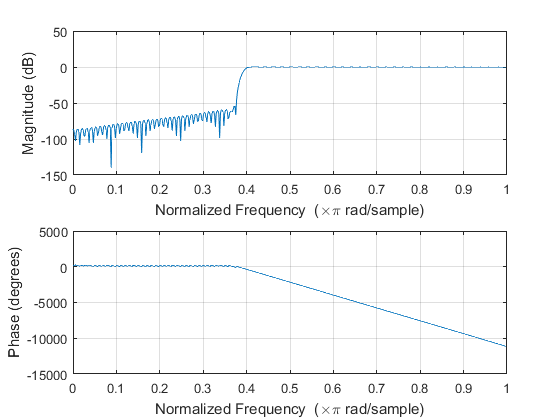


Figure 22: Bandpass Filter Response (Length 20)

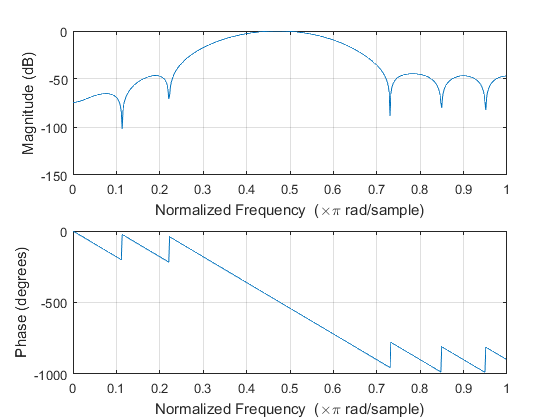


Figure 23: bandpass Filter Response (Length 200)

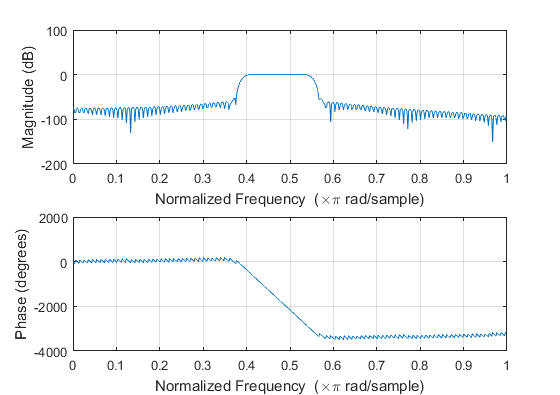


Figure 24: Power Spectrum of Generated Signal

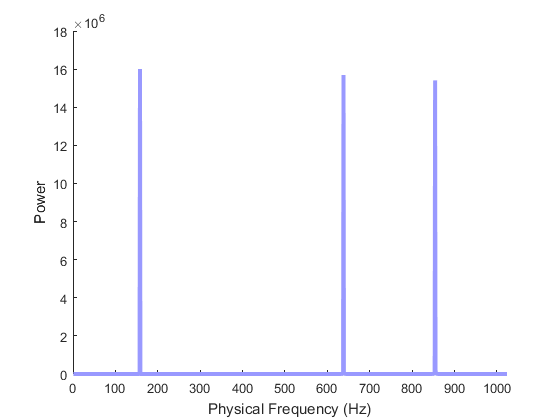


Figure 25: Power Spectrum of Lowpassed Signal

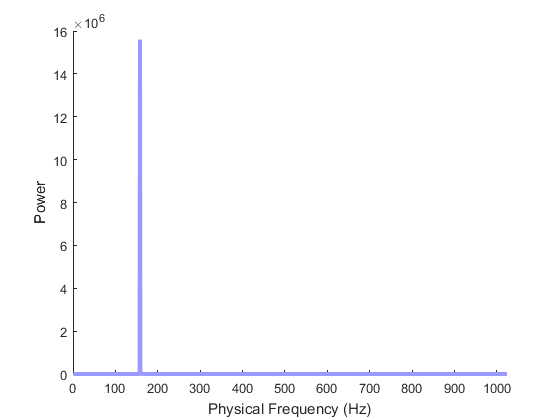


Figure 26: Power Spectrum of Highpassed Signal

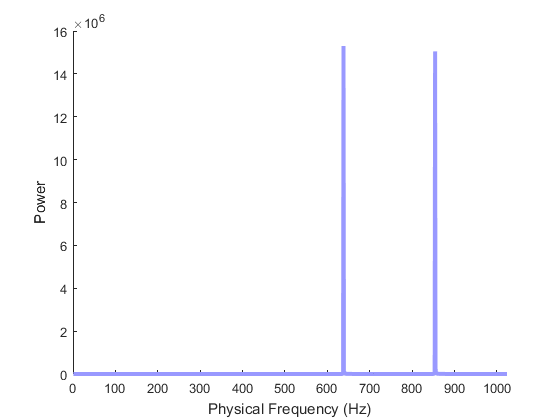


Figure 27: Power Spectrum of Bandpassed Signal

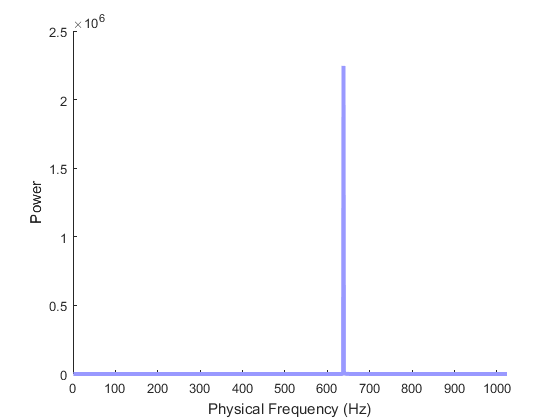


Figure 28: Power Spectrum of Gaussian Noise

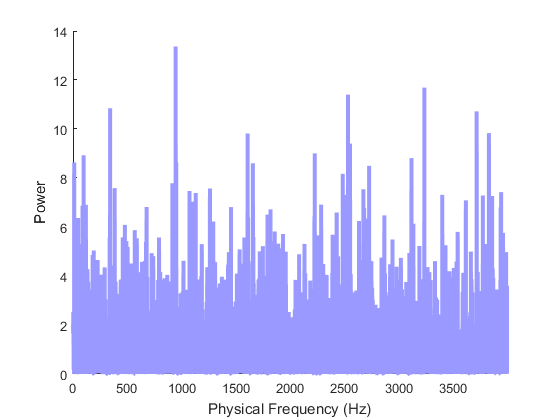


Figure 29: Power Spectrum of Bandpassed Noise

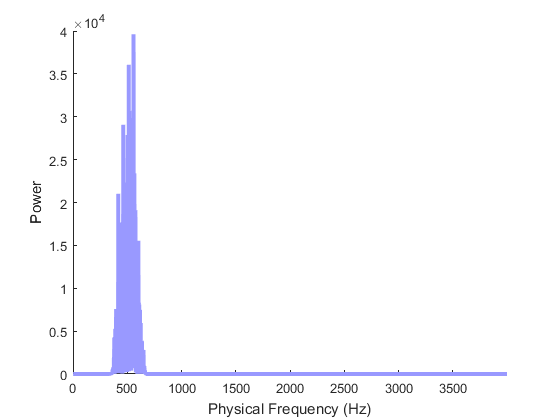


Figure30: Morse Code Power Spectrum

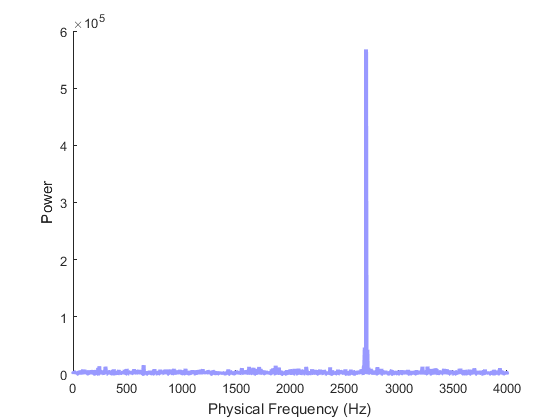


Figure 31: Spectrum of DTMF Signal

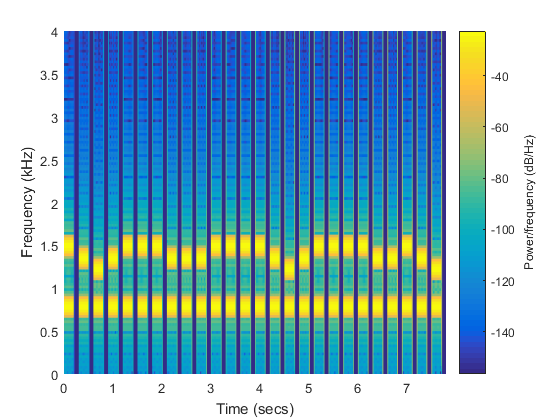


Figure 32: Power Spectrum for DTMF-1.wav

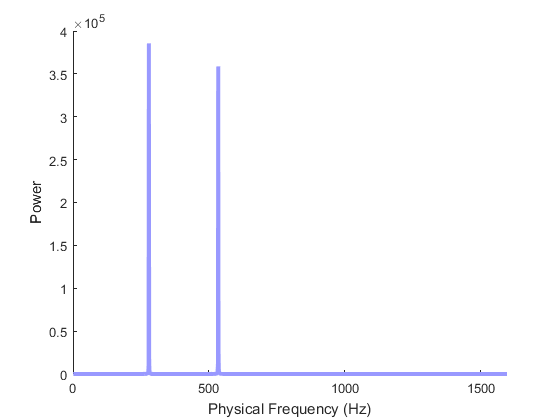


Figure 33: Power Spectrum for DTMF-2.wav

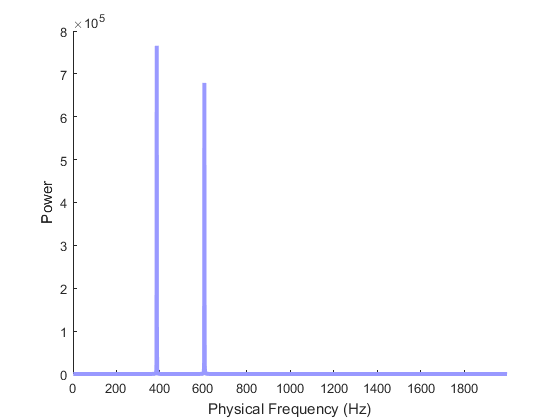


Figure 34: Power Spectrum for DTMF-3.wav

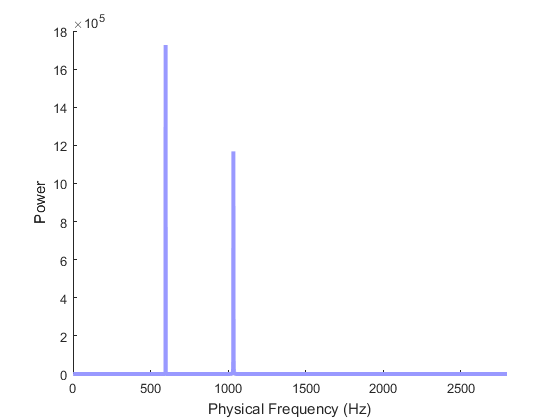


Figure 35: Power Spectrum for DTMF-4.wav

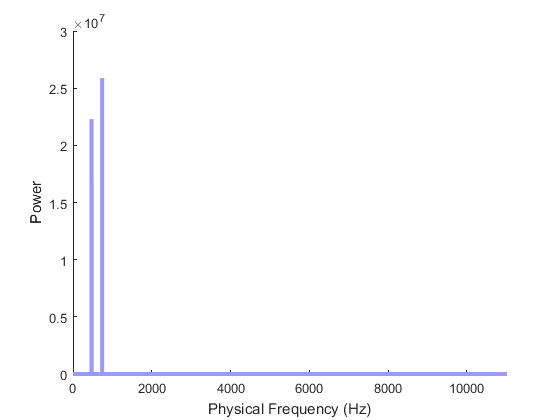


Figure 36: Power Spectrum for DTMF-5.wav

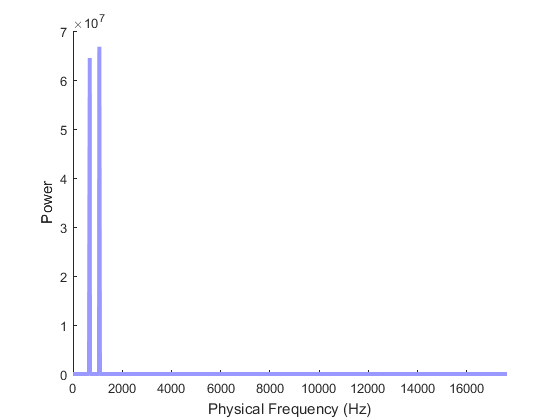


Figure 37: Power Spectrum for DTMF-6.wav

