Task 7.2C Answer sheet

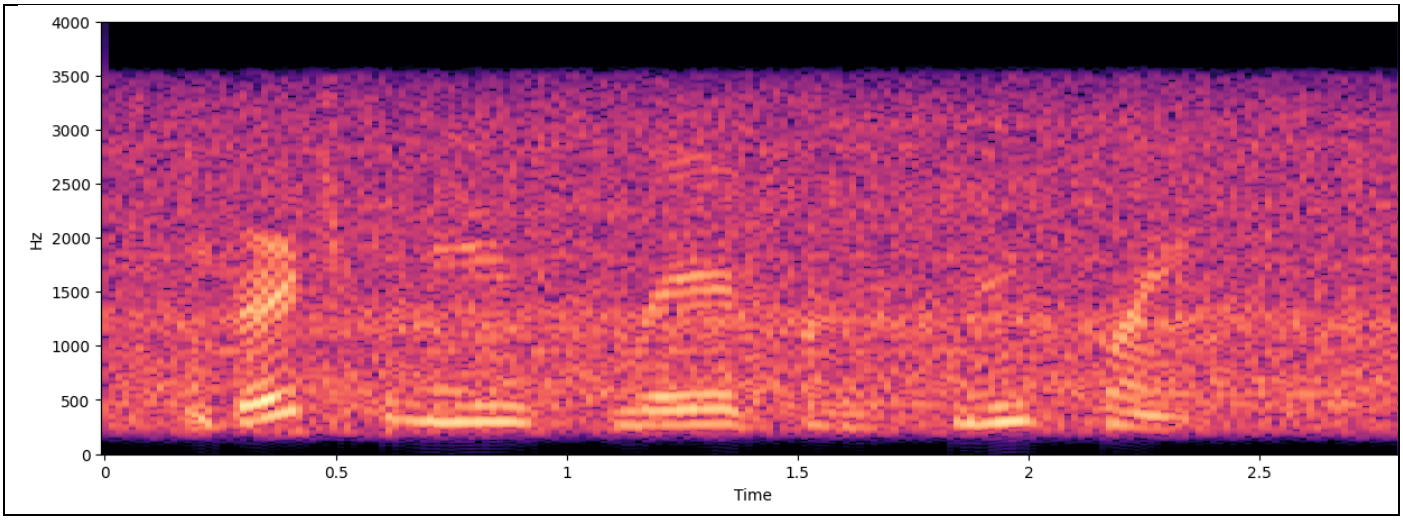
Fill in the required results (images).

Notes:

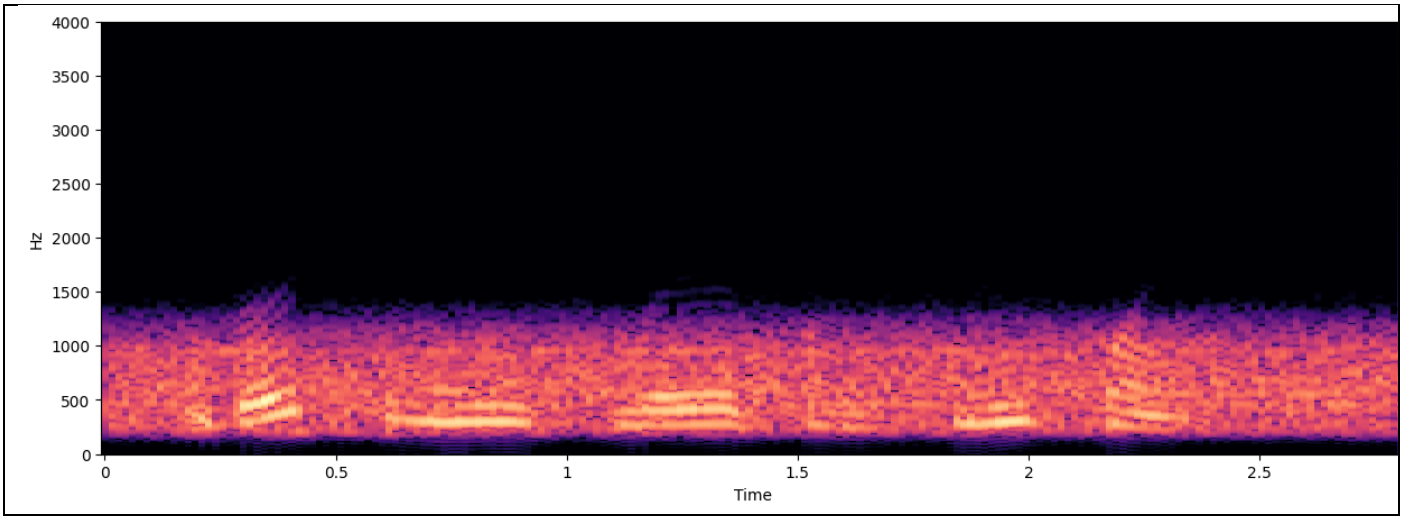
- Examples (if any) need to be replaced by your results.
- Missing any required results will result in a re-submission.

1. High-pass and band-bass filtering

a. Spectrogram of filtered_s achieved using high-pass filter with cutoff_freq = 200



b. Spectrogram of filtered_s achieved using band-pass filter with cutoff_freq = [200,1000]

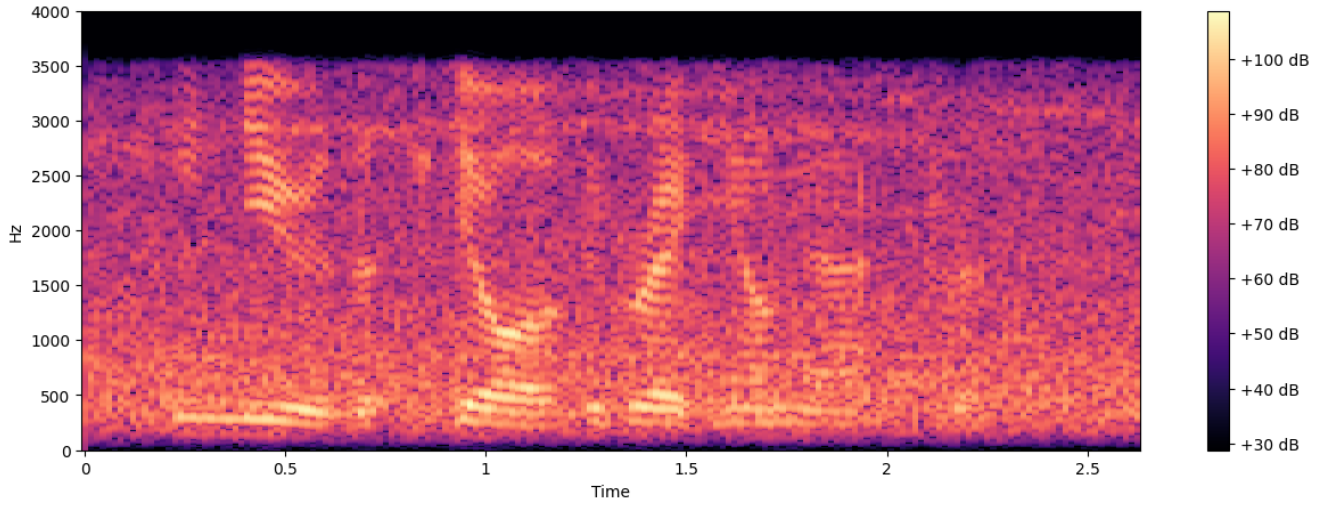


2. Noise attenuation using spectral subtraction method

a. Test case 1: noisy signal sp02_station_sn5.wav, noise Station_1.wav

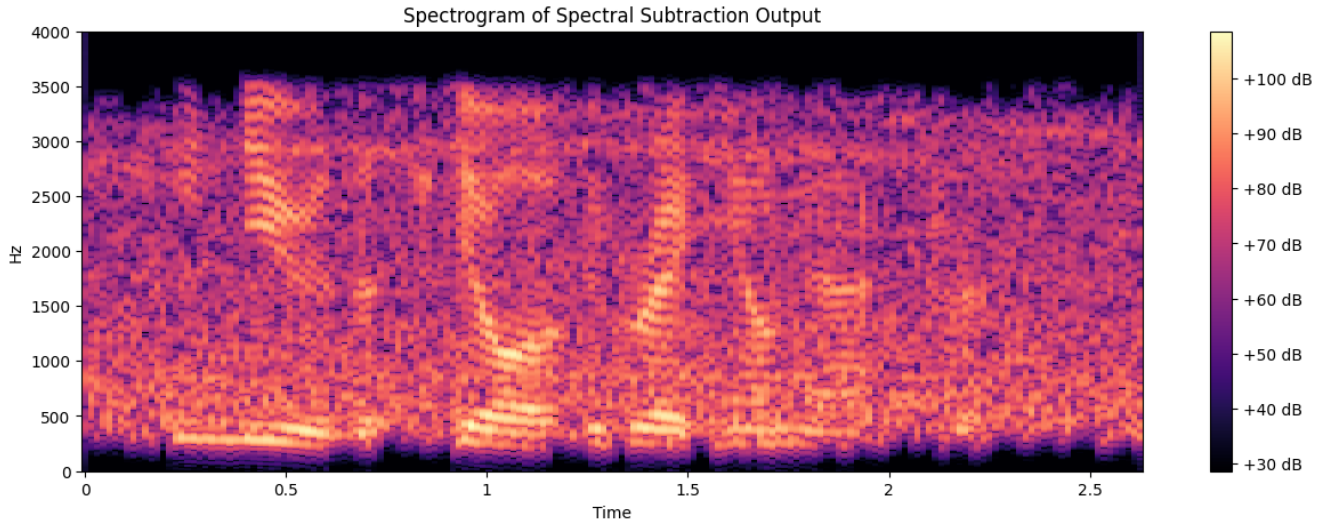
Spectrogram of sp02_station_sn5.wav

Example



Spectrogram of the noise attenuation result of sp02_station_sn5.wav

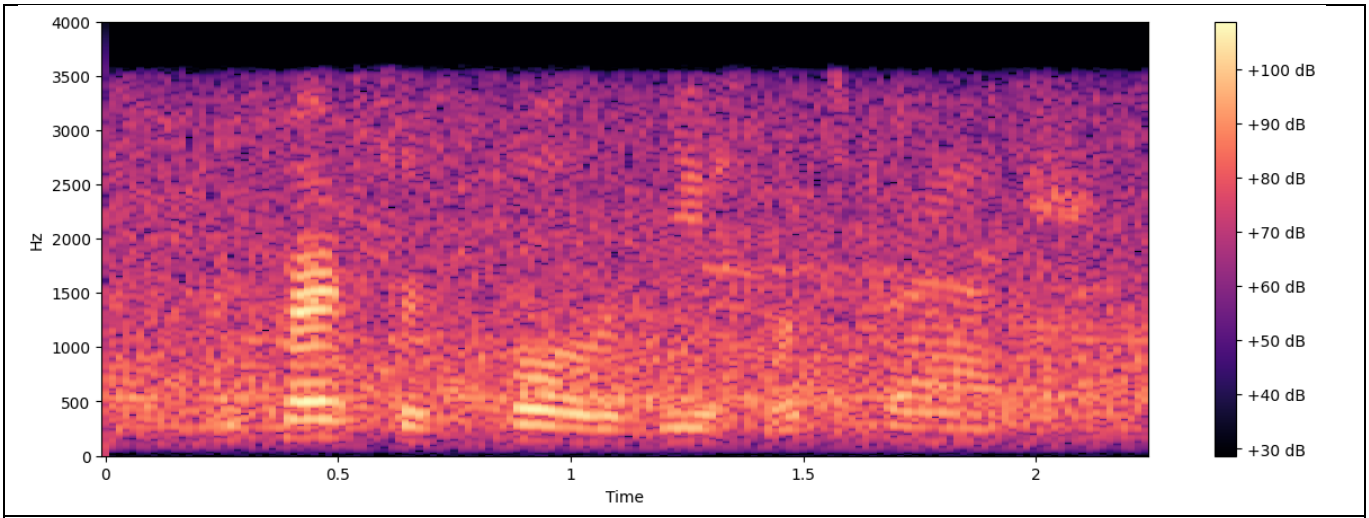
Example



b. Test case 2: noisy signal sp03_station_sn5.wav, noise Station_1.wav

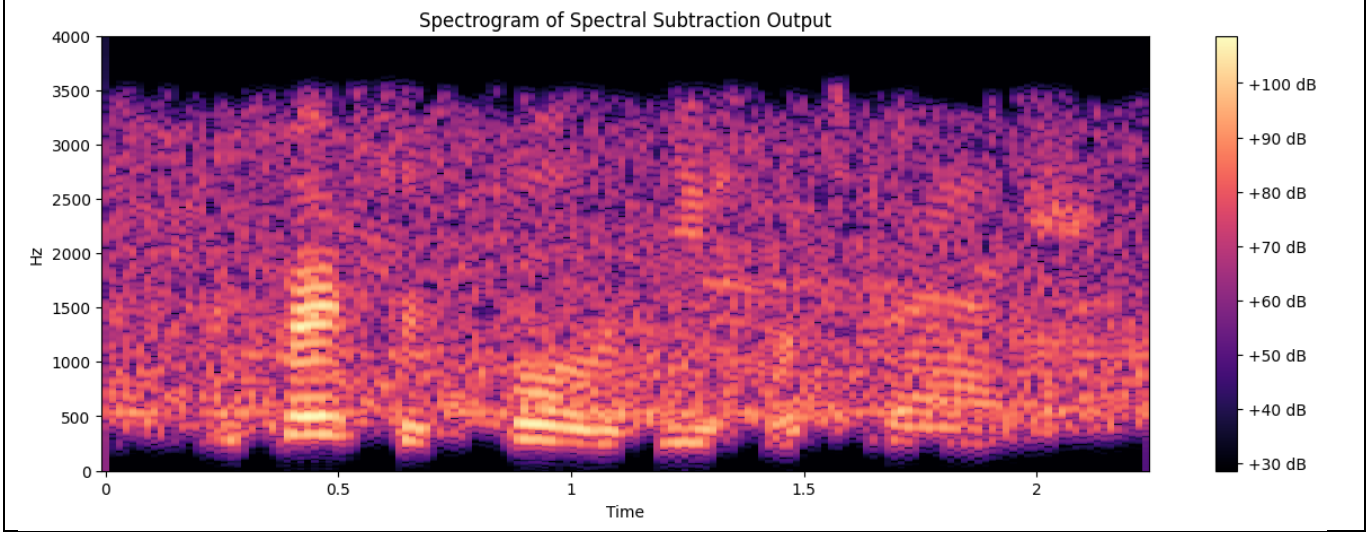
Spectrogram of sp03_station_sn5.wav

Example



Spectrogram of the noise attenuation result of sp03_station_sn5.wav

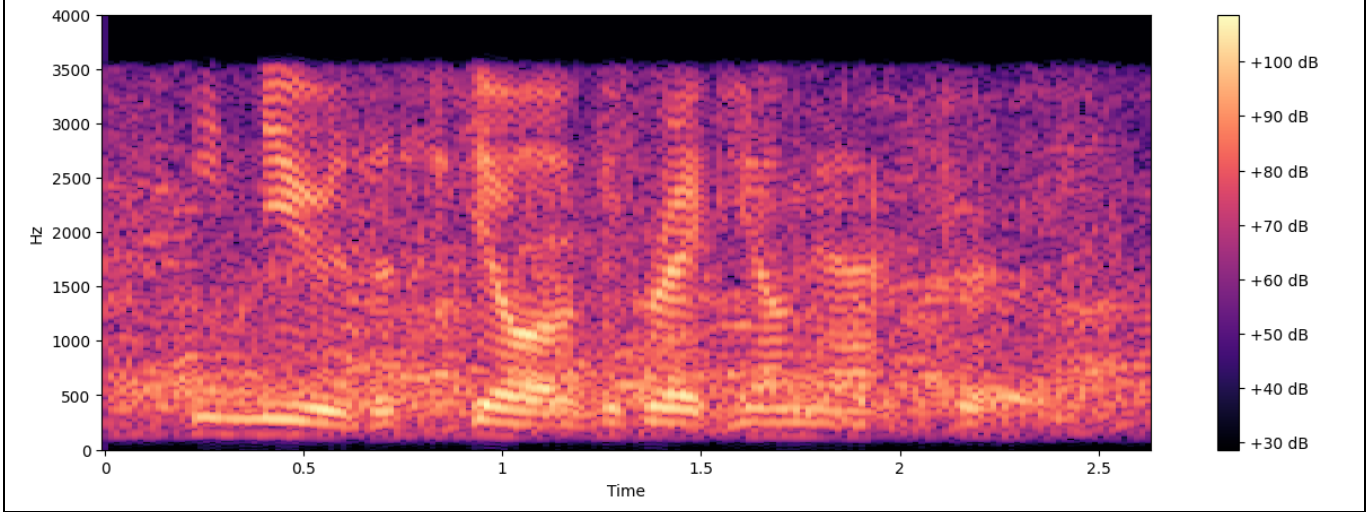
Example



c. Test case 3: noisy signal sp02_babble_sn5.wav, noise Babble_1.wav

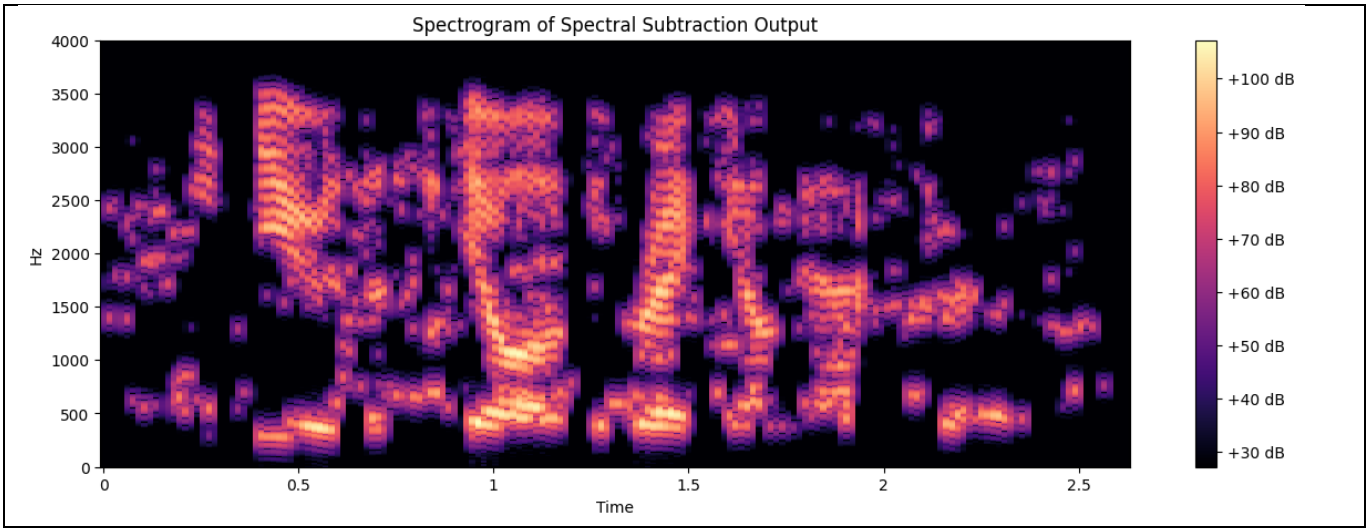
Spectrogram of sp02_babble_sn5.wav

Example



Spectrogram of the noise attenuation result of sp02_babble_sn5.wav

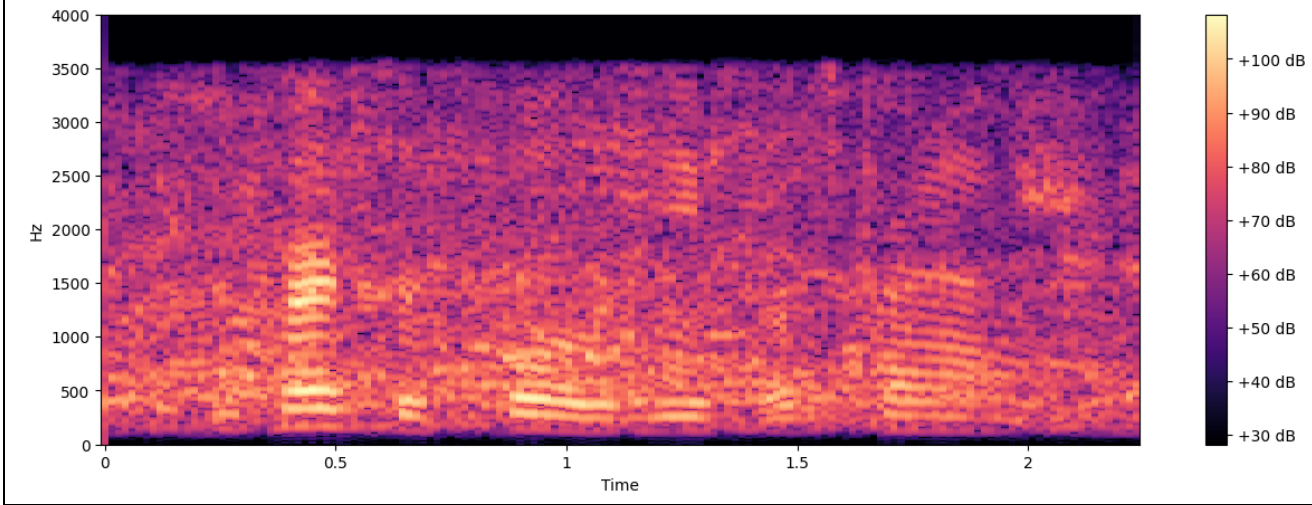
Example



d. Test case 4: noisy signal sp03_ babble _sn5.wav, noise Babble _1.wav

Spectrogram of sp03_babble_sn5.wav

Example



Spectrogram of the noise attenuation result of sp03_babble_sn5.wav

Example