DSP Assignment 1

Task 1

3)

A graph with numbers and letters

AI-generated content may be incorrect.

Our sentence was “Our group is Veer and Arda”. According to Wiktionary, these are the phonetic pronunciations for all the words in the sentence.

“Our” : aʊɚ

“Group”: ɡɹuːp

“is”: ɪz

“Veer”: vɪɹ

“and”: ænd

“Arda”: ˈaɾ.da

As can be seen on the plot, F1 for all of these vowels are between 250 Hz – 850 Hz. The peaks on the frequency domain plot to which these vowels correspond are shown below

A graph showing a wave

AI-generated content may be incorrect.

4) The range containing consonants (2000 Hz – 8000 Hz) is marked below.

A graph showing a wave

AI-generated content may be incorrect.

5) The range containing the vocal spectrum (80 Hz – 8000 Hz) is marked below.

A graph of a waveform

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