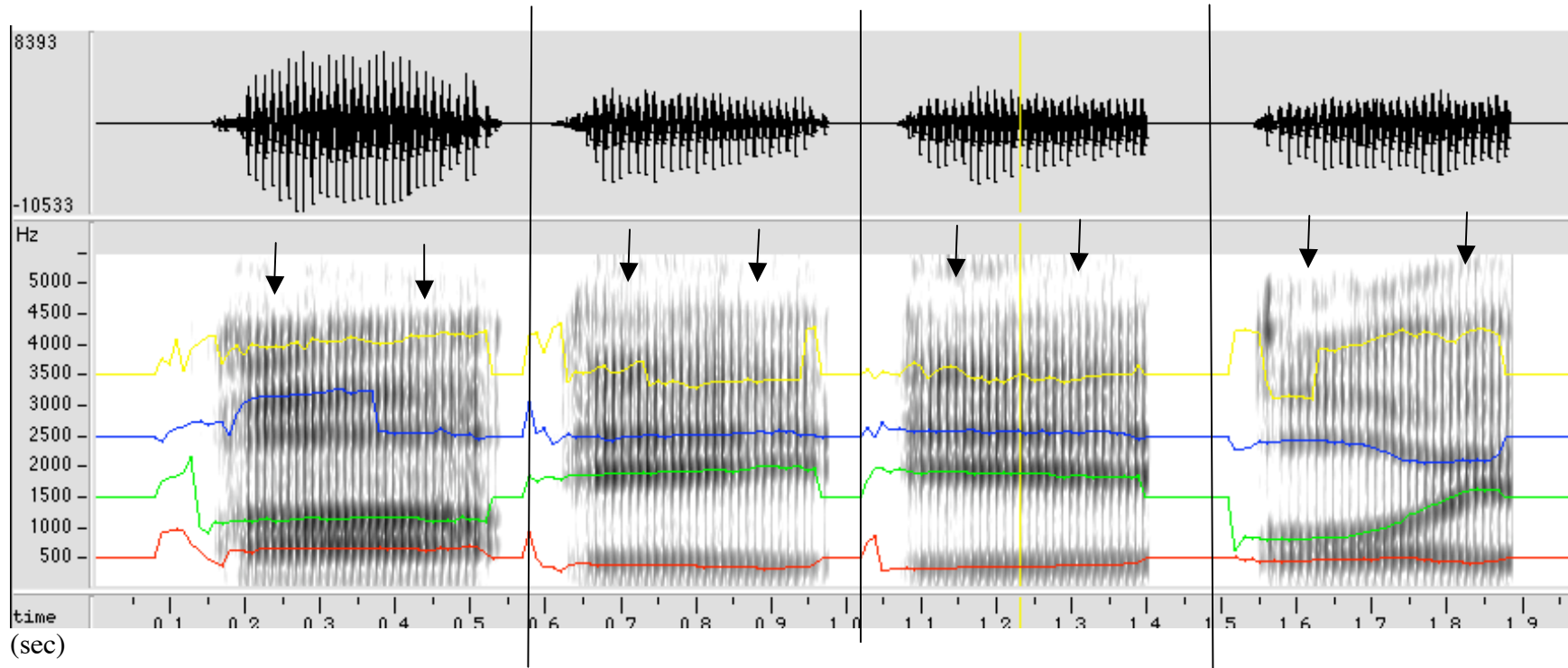


**Q1. Spectrogram 1**

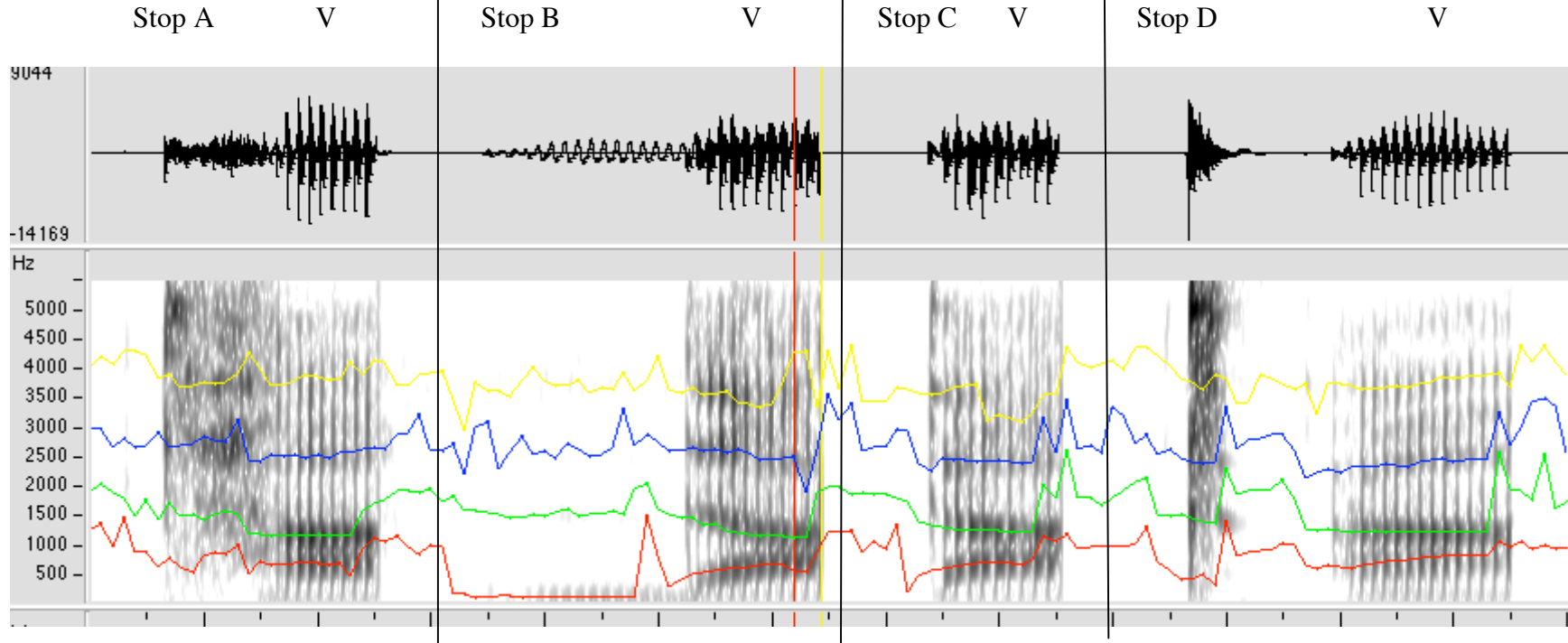
This is a version of exercise 1 on p 166 of your text but with my voice and the vowels in a different order. The vowels (and diphthongs) V1 V2 V3 V4 represent the four vowels [ɪ e j ə] in some order. Identify them and measure their duration in milliseconds F1 and F2 for each about 25% of the way through and again at about 75% of the way through.



Vowel	Transcription	Duration (ms)	F1 at 25%	F2 at 25%	F1 at 75%	F2 at 75%
A	[     ]	_____	_____	_____	_____	_____
B	[     ]	_____	_____	_____	_____	_____
C	[     ]	_____	_____	_____	_____	_____
D	[     ]	_____	_____	_____	_____	_____

**Q 2 Spectrogram 2** shows four alveolar **stop** consonants and the beginnings of the vowels from 4 CV syllables. (The vowels were all [A] but were artificially shortened to show more detail in the consonantal parts.) One of the stops is an ejective. The other three are plosives with three VOT values, corresponding to voiceless aspirated, voiceless unaspirated and (pre-) voiced.

**Spectrogram 2**



Identify each of the stops with the appropriate transcription and provide VOT for each. Note VOT in ejectives can be measured in a way analogous to in aspirated stops. (The noisy part dies out rapidly in ejectives and is followed by near silence ).

Stop	Transcription	VOT (milliseconds)	Stop	Transcription	VOT (milliseconds)
Stop A			Stop C	[     ]	
Stop B			Stop D	[     ]	

**Q3. Decode the first paragraph the** IPA instructions for Rogers' exercise 24 on p 86 into English orthography. You can leave the narrow transcriptions in square brackets and the italicized English word spelled *huh* as they are .

Here's an example of a translation of the shorter instructions to exercise 27.on p 7.

“ Read the following nonsense words aloud.” Note that the instructions are given in RP (southern British) pronunciation. This means some of the vowels may be different than yours and there will be some missing syllable final [ɪ] sounds. If you can't figure out what a particular word is, guess a similar word and put (?) after it. If you can't think of anything remotely similar, then leave the untranslated word in between // marks in your translation.