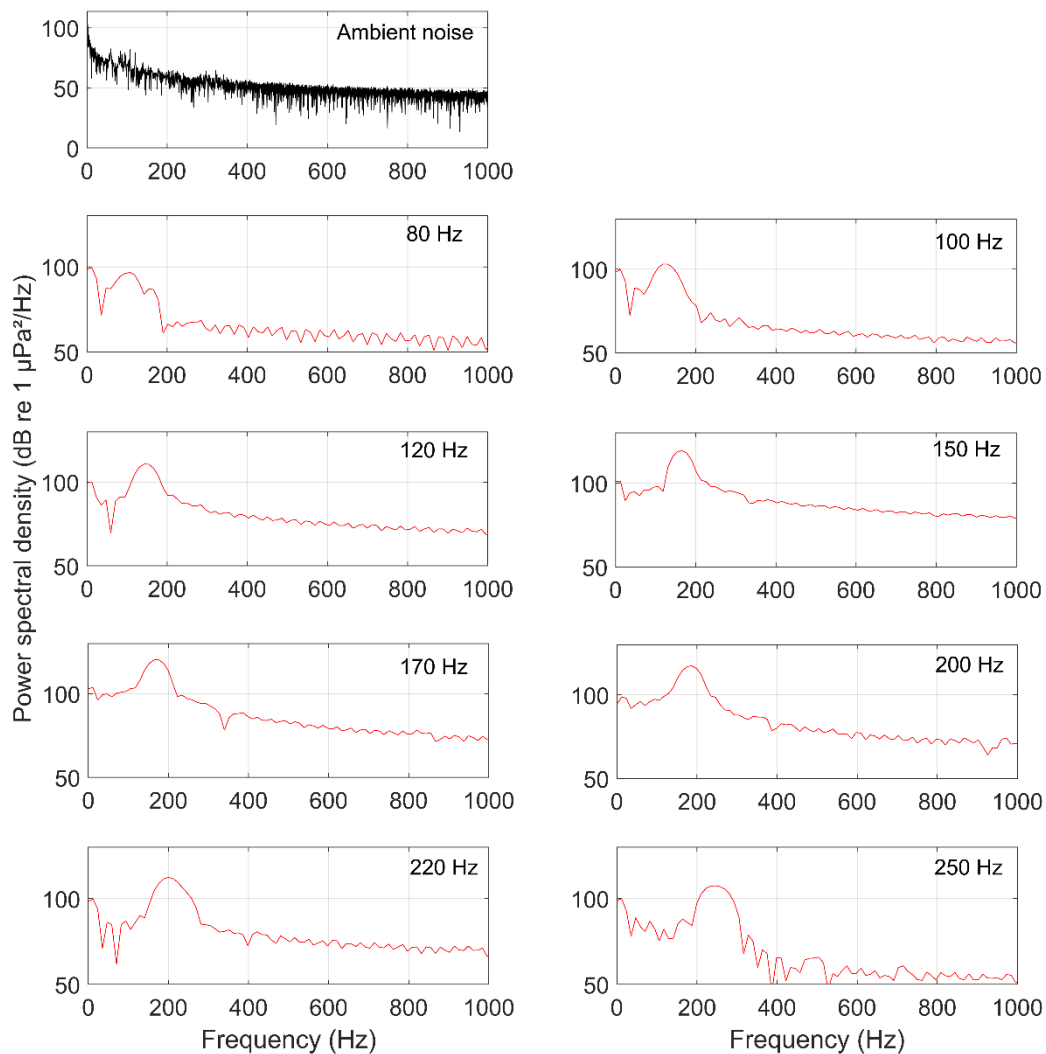
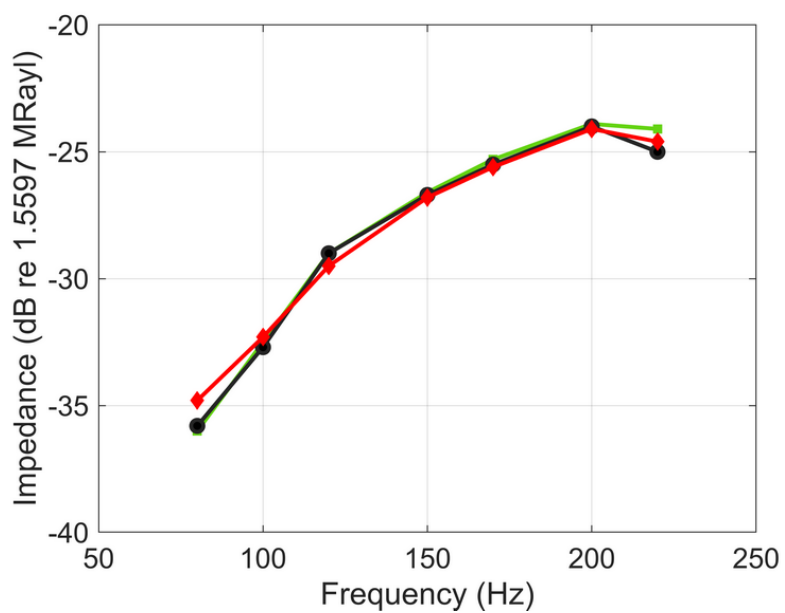


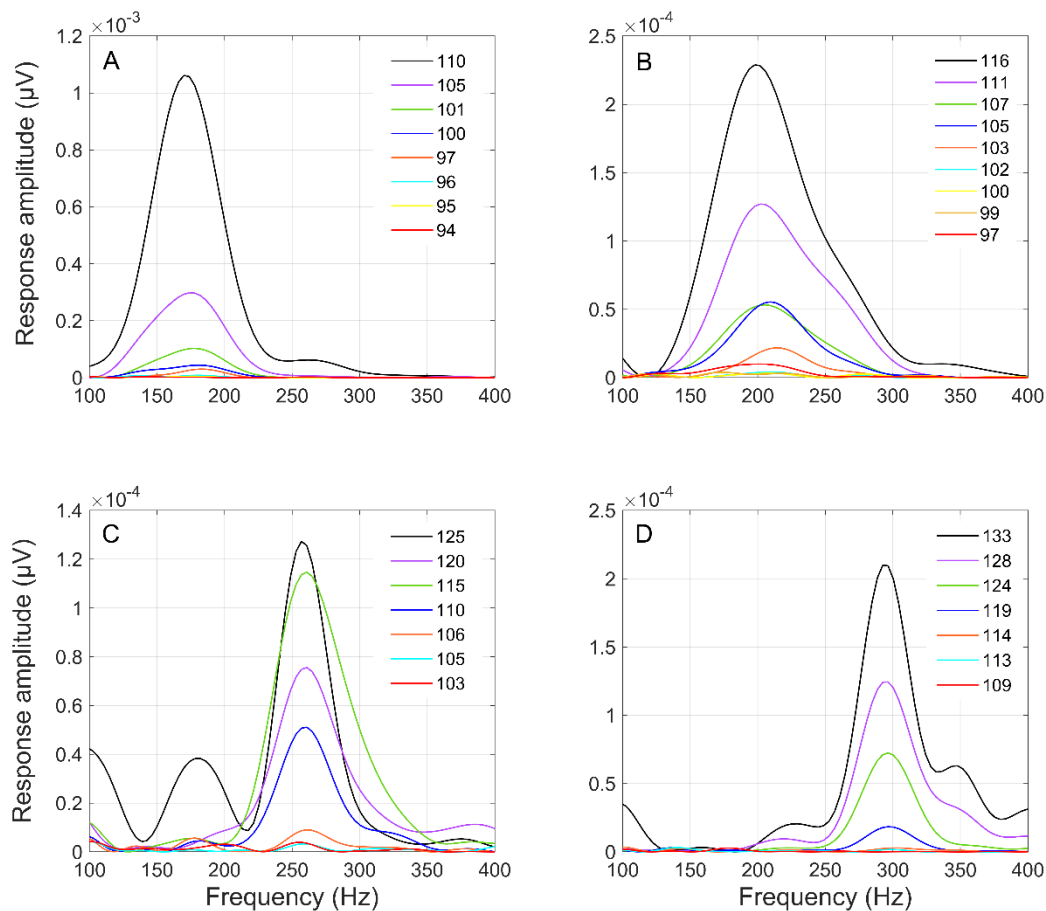
## SUPPLEMENTARY FIGURES



**Figure S1:** Power spectral densities (PSDs) of the ambient noise recorded in the experimental tank, and the amplitude modulated tone-pips (from 80 to 250 Hz; duration = 30 ms) used for AEP experiments. Note that all PSDs from acoustic stimuli were above the ambient noise level in the 0–1000 Hz frequency band.



**Figure S2:** Acoustic impedance of the experimental tank at three different attenuation levels (green = 0 dB, black = 5 dB and red = 10 dB).



**Figure S3: FFT frequency spectra of lobster AEPs.** Responses were generated from four different tone-pip frequency stimuli: 80 Hz (A), 100 Hz (B), 120 Hz (C) and 150 Hz (D). The colors refer to the stimulus levels (SPL<sub>rms</sub>, in dB re 1 μPa) presented in the legend of each graph. Note that the response amplitudes decrease as stimulus levels decrease. Similar to fish and other marine invertebrates for which AEP responses have been measured, the frequencies of the AEP responses corresponded to about twice the stimulus frequencies.