

27 A dolphin is swimming at a speed of 16.0 m s^{-1} directly towards a stationary underwater microphone.

The dolphin emits a sound of frequency 122 kHz . The speed of sound in water is 1480 m s^{-1} .

What is the frequency of sound detected by the microphone?

A 1300 Hz

B 1330 Hz

C 121 kHz

D 123 kHz