

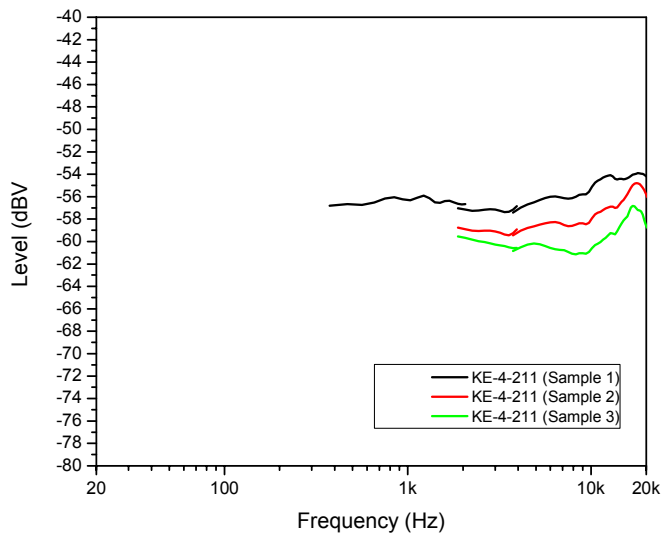
## Test Report on Sennheiser KE4-211-2 Omnidirectional Microphone Capsule

### Sensitivity:

Measured by placing the test capsule into the entrance of a B&K 4320 microphone calibrator. This gives a value of  $-37.57$  dBV/Pa .

### Frequency Response

Measured using a quasi-anechoic technique with impulse responses derived from a chirp. The reference microphone is a B&K 4134.



This measurement will be supplemented by the addition of a near-field measurement to obtain the low-frequency portion of the response. The measurements shows a response that is quite flat up to about 10 kHz, and then rises slightly up to 20 kHz.

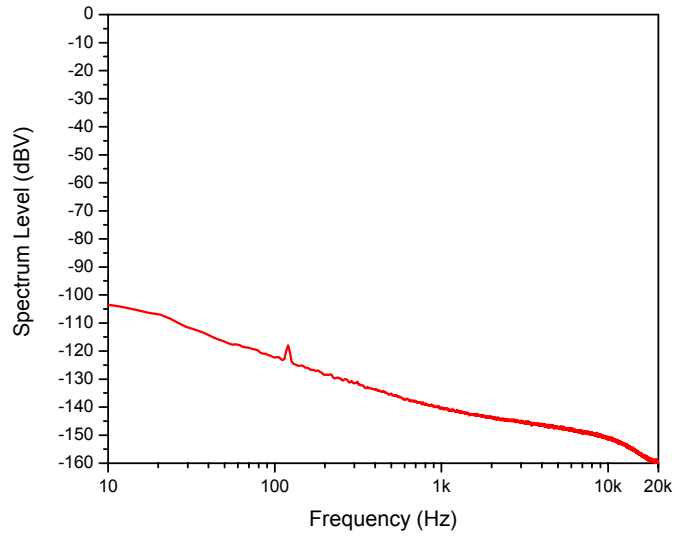
### Noise:

The noise floor is measured after first calibrating the sensitivity of the capsule using a B&K 4320 microphone calibrator. The microphone is then placed in a quiet room or an isolation device and the output is recorded again, but with no incident sound. The ratio of the two is the signal-to-noise ratio. The calculation is repeated after applying an A-weighting filter to the portion of the signal which contains the noise of the microphone.

The noise measurement may be considered to be the upper limit of the noise floor of the microphone capsule.

The A-weighted noise is:  $-65.51$  dB/Pa  
or self noise =  $28.49$  dBA

The noise spectrum is computed by averaging consecutive 16k FFTs over the length of the measurement interval.



**Distortion and Overload:**

NA