

Audio Quality perception – advanced headphone measurements

By Jacob Soendergaard- HEAD acoustics

How do we properly evaluate modern headphones and headsets? Consumers can read reviews online. In some cases, they can go to a store and try them on. An additional and more objective way is to look at frequency response measurements.

- But is this parameter sufficient to evaluate the audio playback performance of an audio device?
- Is there more to the audio playback quality perception than what can be captured in a frequency response?

This paper will introduce a new quality metric, MDAQS: Multi-Dimensional Audio Quality Score, which can be used as a holistic measure of the audio quality perception in headphones (and other audio playback devices) and provide a much easier way to interpret whether the headphone is good or bad.

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Jacob Soendergaard is an Audio and Acoustics aficionado privileged to be employed in the industry. Receiving a B.Eng from Imperial College and MSc from University of Sussex, Jacob spent the following 7 years working for GRAS Sound & Vibration in a variety of technical and commercial roles focusing primarily on the Consumer Audio and Hearing Health industries. Since Jan 2016, Jacob transitioned to an Account Manager role with HEAD acoustics Inc working with consumer, business, and military customers on the goal of improving audio, voice and conversational quality in their products.

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