

3PASS: TS 103 224 defined as recommended simulation method in 3GPP standard TS 26.132

The success story of 3PASS continues: ETSI standard TS 103 224, that is based on HEAD acoustics 3PASS system, is now approved as the recommended simulation method for hands-free measurements in the presence of background noise in 3GPP standard TS 26.132, version 13.2.0, Release 13. The test methods specified in this 3GPP standard can be used to assess the minimum requirements for the acoustic characteristics of speech and video telephony terminals.

"In 2005, the first close to reality background noise simulation system based on a four-channel loudspeaker reproduction of binaurally recorded signals was developed by HEAD acoustics and standardized in ETSI ES 202 396-1. Meanwhile, this method can be found in all test labs around the world – but it no longer meets the requirements on accurate sound field reproduction, which are required for the evaluation of up-to-date noise reduction technologies," says Hans W. Gierlich, Managing Director Telecom at HEAD acoustics. "Therefore, with 3PASS, HEAD acoustics has developed a completely new simulation method. 3PASS is an eight-channel system and is characterized by a highly accurate spectral and spatial reproduction of the sound field around the device under test as well as excellent inter-laboratory reproducibility. This was impressively demonstrated not least by a 3GPP Round Robin test last year. We are pleased that this method is now also the recommended method for testing mobile phones in hands-free mode."

As early as 2014, the innovative background noise simulation system by HEAD acoustics has been published as ETSI standard TS 103 224.

About HEAD acoustics – Telecom Division

HEAD acoustics was founded in 1986 and has been involved in noise and vibration, electroacoustic and voice quality testing since its inception. HEAD acoustics is based in Herzogenrath, Germany, with affiliates in USA, Japan, France and Great Britain as well as a world-wide network of representatives. The Telecom Division of HEAD acoustics manufactures telecom test equipment and provides consulting services in the field of speech and audio quality. Moreover, HEAD acoustics closely cooperates with DECT Forum, ETSI, ITU-T, 3GPPP, TIA CTIA, GSMA and other standardization bodies with regard to the development of quality standards for voice transmission and speech communication. In many partnership projects, HEAD acoustics has proven its competence and capabilities in conducting tests and optimizing communication products with respect to speech and audio quality under end-to-end as well as mouth-to-ear scenarios.