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GB/T 20441.5-2017

Electroacoustics -- Measurement microphones -- Part 5: Methods for pressure calibration of working standard microphones by comparison

电声学 测量传声器 第5部分：工作标准传声器声压校准的比较法

(English Translation)

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Foreword

GB/T 20441 "measuring microphone" is divided into 8 parts.

--- Part 1. Laboratory standard microphone specifications;

--- Part 2. Reciprocal techniques for laboratory-standard microphones sound pressure calibration of the primary method;

--- Part 3. Reciprocal techniques for the laboratory standard microphone free field calibration of the primary method;

--- Part 4. Working standard microphone specifications;

--- Part 5. Working standard microphone sound pressure calibration comparison method;

--- Part 6. Electrostatic exciter to measure the frequency response;

--- Part 7. Laboratory standard microphone free field sensitivity and sound pressure sensitivity of the difference between;

--- Part 8. Working standard microphone free field calibration comparison method.

This section GB/T 20441 Part 5.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with IEC 61094-5:2001 "electroacoustic measurement microphone Part 5. Working standard microphone Sound pressure calibration comparison method. " the documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

--- GB/T 20441.1-2010 Electroacoustic measuring microphones Part 1. Laboratory standard microphone specifications (IEC 61094-1:2000, IDT)

--- GB/T 20441.4-2006 Measuring microphones Part 4. Working standard microphone specifications (IEC 61094-4:1995, IDT) Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Electroacoustic Standardization Technical Committee (SAC/TC23) centralized.

The main drafting units in this section. China Institute of Metrology, Hengyang Hengyi Electric Co., Ltd., China Electronics Technology Group Corporation third graduate School.

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1 Scope

GB/T 20441 provisions of this part of the laboratory has been calibrated according to IEC 61094-2:1992 standard microphones or have been according to the Department Sub-calibrated working standard microphones are compared to determine the sound pressure sensitivity method.

This section applies to meet the requirements of IEC 61094-4 and protect the hood can be removed working standard microphones and meet IEC 61094-1 Seeking laboratory standard microphone.

The comparison method based on the principle described in IEC 61094-2:1992 is also feasible, but is beyond the scope of this section.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 61094-1 Measurement Microphone Part 1. Laboratory Standard Microphone Specification (Measurement Microphones-Part 1: Specifications for laboratory standard microrophones) IEC 61094-2:1992 Measuring microphones - Part 2. Original sound pressure calibration of laboratory standard microphones using reciprocity techniques Level method (Measurementmicrophones-Part 2: Primarymethodforpressurecalibrationoflaboratory standardmicrophonesbythereciprocitytechnique) IEC 61094-4 Measurement microphones Part 4. Working standard microphone specifications (Measurementmicrophones-Part 4.

Specificationsforworkingstandardmicrophones) ISO/IEC GUIDEEXPRESS.1995 Measurement Uncertainty Guide [Guidetotheexpressionofuncer-taintyinmeasurement (GUM)]

3 Terms and definitions

IEC 61094-1 defines the following terms and definitions apply to this document.

Reference microphone Sound pressure sensitivity has been determined in advance laboratory standard microphone or working standard microphone.

Measured microphone testmicrophone A lab standard microphone or a working standard microphone that is calibrated by comparison with a reference microphone.

Monitor microphone Microphone for measuring changes in sound pressure in the coupler.

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