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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 4854.6-2014

**Acoustics -- Reference zero for the calibration of audiometric
equipment -- Part 6: Reference hearing threshold levels for test
signals of short duration**

声学 校准测听设备的基准零级 第6部分：短时程测试信号的基准听阈
(English Translation)

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Foreword

GB/T 4854 "acoustic calibration of audiometric equipment - Reference zero" into the following sections.

--- GB/T 4854.1 acoustic calibration of audiometric equipment - Reference zero for Part 1. the ear headphones pure tone reference equivalent threshold sound Pressure level;

--- GB/T 16402 Acoustics pure tones and insert earphones Reference equivalent threshold sound pressure levels;

--- GB/T 4854.3 acoustic calibration of audiometric equipment - Reference zero - Part 3. pure tones and bone vibrators Reference equivalent threshold force levels;

--- GB/T 4854.4 Acoustics - Reference zero for the calibration of audiometric equipment - Part 4. Reference levels for narrow-band masking noise;

--- GB/T 4854.5 acoustic calibration of audiometric equipment - Reference zero - Part 5. 8kHz ~ 16kHz frequency range of pure tones Reference equivalent threshold sound pressure levels;

--- GB/T 4854.6 acoustic calibration of audiometric equipment - Reference zero - Part 6. Short reference process hearing threshold test signal;

--- GB/T 4854.7 Section 7 Reference zero acoustic calibrator audiometric equipment. free-field and diffuse - field listening benchmark Hearing threshold;

--- GB/T 4854.8 acoustic calibration of audiometric equipment - Reference zero - Part 8. Headphones pure tone reference equivalent threshold sound Pressure level;

--- GB/T 4854.9 acoustic calibration of audiometric equipment - Reference zero - Part 9. Determination of the reference hearing threshold level preferred test condition.

Note: In developing this standard Part 2, our country has not yet formed a series of standards, the standard number is GB/T 16402, in the part of the revision of its Standard will be changed to GB/T 4854.2.

This section GB/T Section 64854 of.

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

This section uses the translation method identical with ISO 389-6:2007 "Reference zero - Part 6 acoustic calibrator audiometric equipment. short duration Benchmark signal hearing threshold level. " this section proposed by the Chinese Academy of Sciences.

The acoustics in part by the National Standardization Technical Committee (SAC/TC17) centralized.

This section drafted by. Institute of Otolaryngology, Chinese PLA General Hospital, Chinese Academy of Sciences Institute of Acoustics.

Introduction

GB/T 7341.3 provides Auditory test signals of short duration. These include a short acoustic signals of short duration and tone for different listening Diagnostic tests, such as auditory electrophysiology (ECochG, auditory brainstem response, etc.) and transient evoked otoacoustic emissions and other aspects of auditory evoked response. this Reference section gives a short duration test signal hearing threshold.

The provisions of this section describes the type of reference transducer hearing thresholds, hearing threshold allows measurement of the expression of consistency and uniformity.

Acoustics - Reference zero for the calibration of audiometric equipment Part 6. Test signals of short duration reference hearing threshold

1 Scope

GB/T 4854 provisions of this part of the short duration of the test signal reference hearing threshold level.

This section applies to the use of such signals audiometric equipment calibration.

Note 1: Appendix A gives information about the different parameters and their impact on the hearing threshold level description.

NOTE 2: ISO 389-9 provides standardized in audiometry preferred test conditions.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 4854.1-2004 Acoustics calibration of audiometric equipment - Reference zero - Part

1. the ear headphones pure tone reference equivalent threshold Sound pressure level (ISO 389-1:1998, IDT) GB/T 7341.3-1998 Audiometers Part 3. Auditory test signals of short duration for audiometric and neuro - otological (IEC 60645-3:1994, IDT) GB/T 20441.1 electric acoustic measurement microphones - Part 1. Laboratory standard microphones (IEC 61094-1) IEC 60318-1 electro-acoustics simulator head and ear - Part 1. Align the ear headphones and earphones with ear simulator (Electroacoustics-Simulators of human head and ear-Part 1. Ear simulator for the calibration of supra-aural and circumaural earphones) IEC 60318-4 electro-acoustics simulator head and ear - Part 4. measurement of insert earphones clogged ear simulator (Electro-acoustics-Simulators of human head and ear-Part 4. Occluded-ear simulator for the measurement of earphones coupled to the ear by inserts) 1) IEC 60318-6 electro-acoustics simulator head and ear - Part 6. measurement of bone vibrators mechanical coupling (Electroacoustics-Simulators of human head and ear-Part 6. Mechanical coupler for the measurements on bone vibrators) 2)

3 Terms and Definitions

GB/T 4854.1 and define the following terms and definitions apply to this document.

Short duration signal A signal duration of less than 200ms.

- 1) IEC 60711. 1981 revision.
- 2) IEC 60373:1990 revision.