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

GB/T 4854.5-2008

**Acoustics -- Reference zero for the calibration of audiometric
equipment -- Part 5: Reference equivalent threshold sound pressure
levels for pure tone in the frequency range 8 kHz to 16 kHz**

声学校准测听设备的基准零级 第5部分：8kHz-16kHz频率范围纯音基准等效阈
声压级

(English Translation)

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Foreword

GB/T 4854 "acoustic calibration of audiometric equipment - Reference zero" includes eight parts.

--- 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 Acoustics - Reference zero for the calibration of audiometric equipment - Part 6. short test drive signal reference hearing threshold level;

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

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

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 54854 Part of.

This part identical with ISO 389-5:2006 "Acoustics --- calibration of audiometric equipment - Reference zero --- Part 5. 8kHz ~ 16kHz frequency range pure tone reference equivalent threshold sound pressure levels "(in English).

This section is equivalent to using international standards made editorial changes.

Appendix A of this section and Appendix B is an informative annex.

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

National Standard GB extended high frequency audiometry device/T 7341.4 has been promulgated. As the high-frequency range extending calibration audiometry using headphones Adapter with IEC 60318-1 ear simulator used together to form the acoustic coupler calibration middle-ear headphones. The adapter has now become International Standard IEC 60318-2 (will be included in the revised IEC 60318-1). This section describes specific model Headphones and insert earphones reference equivalent threshold sound pressure levels, can be used for these models have been equipped with headphones calibrated audiometer, hearing threshold level in our country Expression measurements values consistent with internationally.

GB/T 4854.5-2008/ISO 389-5:2006 Acoustics - Reference zero for the calibration of audiometric equipment Part 5. 8 k H z ~ 16 k H z frequency Range pure tone reference equivalent threshold sound pressure levels

1 Scope

This section provides 8kHz ~ 16kHz frequency range pure tone reference equivalent threshold sound pressure levels (RET SPLs), for a particular type ear Air conduction audiometer calibration machine.

NOTE: it gives a description and experimental conditions to determine the reference equivalent threshold sound pressure levels in Appendix A and reference.

2 Normative references

The following documents contain provisions which, through reference to GB/T 4854 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this

section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated references, the latest version applies to this section.

GB/T 4854.1 acoustic calibration of audiometric equipment - Reference zero - Part 1. the ear headphones pure tone reference equivalent threshold sound pressure levels (GB/T 4854.1-2004, ISO 389-1:1998, IDT) GB/T 16402 Acoustics pure tones and insert earphones Reference equivalent threshold sound pressure levels (GB/T 16402-1996, eqv ISO 389-2.

1994)

IEC 60318-11) electro-acoustics simulator head and ear - Part 1. Align the ear headphones ear simulator IEC 60318-2:1998) electro-acoustics simulator head and ear - Part 2. Calibration extended high-frequency audiometry intermediate range headphones Acoustic coupler IEC 607113) and insert earphones measurement clogged ear simulator

3 Terms and Definitions

This part of GB/T 4854.1 and IEC 60318-1 terms and definitions in.

4 Technical Requirements

Reference equivalent threshold sound pressure levels (RETSPLs) headset model and calibration headset with an ear simulator and adapter related. Table 1 to Out (ETYMOTICRESEARCHER-2 with ER1-14A type earplugs) and close to two different types of headphones [insert earphones Predetermined value closed earphones (SENNHEISERHDA200)] of.

Headband SENNHEISERHDA200 type earphones clamping force should be (10.0 ± 1.0) N. When measuring headband clamping force, two ears the distance between the machine should be 145mm; headband center (top) from the midpoint of the center of two headphones to be adjusted to 130mm.

Ear ETYMOTICRESEARCHER-2 plug-in headset, should be deep into a subject's ear canal, so earplugs the outer end of the ear canal flush.

1) is being revised.

2) will be canceled, its content is included in the revised IEC 60318-1.

3) will become the IEC 60318-4.

GB/T 4854.5-2008/ISO 389-5:2006