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

GB/T 15528-2013

Replacing GB/T 15528-1995

**Methods of measurement on microphones and earphones for
speech communications**

语音通信用传声器和耳机测量方法

(English Translation)

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Foreword

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

This standard replaces GB/T 15528-1995 "headset assembly measurement methods", compared with the GB/T 15528-1995, in addition to editing Modifications outside the main technical changes are as follows.

- Modify "the main content and scope" in the presentation of content, and the name changed to "program" (see Chapter 1);
- Modify the "reference standard" presentation of content, and the name changed to "Normative references" (see Chapter 2);
- Added "the term" expression content, and the name changed to "Terms and definitions"

(see Chapter 3);

--- Modified "test conditions," the statement contents, chapter headings will be amended to read "Characteristics and measurement procedures," adds "General Conditions", "rated Conditions "(see Chapter 4, 4.1 and 4.2);

--- Remove the "microphone group portion," "receiver section group" (see the 1995 edition 5.1 and 5.2);

--- According to IEC 61842:2002, the structural adjustment of the original standard, the adjustment from the five chapters of the original standard is seven chapters;

--- Added "connectors and connection flag" (see Chapter 5);

--- Added "Dielectric Withstanding Voltage" (see Chapter 6);

--- Added "feature provisions" (see Chapter 7);

--- Increasing the "micro four connectors" "coaxial connector" (see Appendix A, Appendix B);

--- Added "References." this standard uses redrafted law revision adopted IEC 61842:2002 "speech communication microphone and headphone measuring methods." This standard Technical differences exist compared to 2002, the terms of these differences have been involved in an empty space by the outside edge of the vertical single page. with IEC 61842 Line (I) have been marked, this standard and IEC 61842:2002 as compared to the main technical changes are as follows.

--- Remove IEC 61842:2002 in 3.1.3 "Notes" and "Table 1";

--- Adjustment IEC 61842:2002 in Table 2. Table 1 of this standard, this standard table remaining numbers are IEC 61842:2002 in

Table number by 1;

--- To make clearer classification, the IEC 61842:2002 3.1.8 The adjustment to this standard 3.2 "measuring equipment" for 3.2.1;

--- Adjustment IEC 61842:2002 in 3.2.1 of this standard in terms of number of 3.2.2,3.2 rest were postponed;

--- For the IEC 61842:2002 in 3.3 clearer, add the "microphone" "Headphones" in this clause;

--- For the IEC 61842:2002 4.4 clearer, add the "microphone" in this clause;

--- For the IEC 61842:2002 4.5 clearer, add the "headset" in this clause;

--- In order to meet today's situation, revised IEC 61842. 4.3.2 Content 2002;

--- Revised IEC 61842. 4.3.5,4.4.2,4.4.3 in the second paragraph, the contents of

4.5.2,4.5.3 2002;

--- Revised IEC 61842:2002 in the section heading 4.4.5,4.5.7 Figure 7 Description of Symbols;

--- Remove IEC 61842:2002 in Figure 1;

--- Adjustment IEC 61842:2002 in FIG. 2 in Figure 1 of this standard, this standard, the remaining figures are numbered IEC 61842:2002 Corresponding Figure number by 1;

--- Increased Figs. 1 and 2, "Note. dashed line element can be ignored";

--- The IEC 61842:2002 standard-based adjustment of 5.1, 5.2 Annex A, Annex B;

--- Revised IEC 61842:2002 Table 2 "microphone frequency response" and "Chapter/Article", "4.3.4" to "4.4.3";

--- Revised IEC 61842:2002 Table 3 "Headphone frequency response" "Chapter/Article", "4.4.3" to "4.5.4." Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This standard by the national audio, video and multimedia systems and equipment Standardization Technical Committee (SAC/TC242) centralized.

Drafting of this standard. Nanjing University, AAC Acoustic Technology Co., Ltd. Goertek.

Drafters of this standard. Shen Yong, Huang Zhi, Jiang Chao.

This standard replaces the standards previously issued as follows.

--- GB/T 15528-1995.

Voice communication headset with microphone and methods of measurement

1 Scope

This standard specifies the method for measuring voice communication using microphones and headsets.

This standard applies to handheld voice communications headset - microphone set, headset - microphone set - set microphone or headset Section and headphone section also applies to the built-in handheld headset - microphone set, headphones - pass the microphone group - set microphone or headset Sound unit and the earphone unit.

The purpose of this standard is to establish with these electro-acoustic transducer related definitions, characteristics and needs as well as the provisions of the relevant measurement

standard of. Can not exclude the use of other measurement methods give the same result, a detailed method used shall be given together with the measurement results.

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 12060.4-2012 Sound system equipment - Part 4. Methods of measurement microphones (IEC 60268-4:2004, IDT) GB/T 12060.7-2013 Sound system equipment - Part 7. Headphones and earphones methods of measurement (IEC 60268-7:2010, MOD) GB/T 20441.1-2010 Electric Acoustic Measurement microphones - Part 1. Laboratory standard microphones (IEC 61094-1.

2000, IDT)

GB/T 20441.4-2006 Measurement microphones - Part 4. Specifications for working standard microphones (IEC 61094-4:1995, IDT) GB/T 25498.1-2010 electro-acoustics simulator head and ear simulator - Part 1. Align the ear headphones with the ear simulator (IEC 60318-1:1998, IDT) SJ/Z9140.1-1987 Sound system equipment - Part 1. General (idt IEC 60268-1. 1985) IEC 60318-4:2010 electric acoustic simulator head and ear simulator Part 4. Measurement clogged ear with an ear simulator (Electroacoustics-Simulators of human head and ear-Part 4.

Occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts) IEC 60603-11:1992 PCB Connectors for frequencies below 3MHz Part 11. Detail specification for coaxial connectors (from by the connector and the fixed connector size) [Connectors for frequencies below 3MHz for use with printed boards-Part 11.

Detail specification for concentric connectors

(dimensions for free connectors and fixed connectors)] ITU-TP.51 P Series. artificial mouth (Artificial mouth) ITU-TP.370 P series. the hearing aid with the phone connected with the use of (Coupling hearing aid to telephone sets)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Classification

3.1.1

Handheld headset - microphone set handset Assembly of voice communication, including microphone and headphone part portion handheld device, handheld and easy talker.