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

GB/T 43786-2024

**Audio, video and information technology equipment - Routine
electrical safety testing in production**

音频、视频和信息技术设备 生产过程中的例行电气安全试验

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is equivalent to IEC 62911:2016 "Routine electrical safety tests during the production of audio, video and information technology equipment" Test.

1 Scope

This document specifies routine electrical safety tests during or after production to detect failures during production and Unacceptable deviations in the production process and in the use of materials.

This document applies to AC mains or DC mains powered equipment that implements IEC 60065, IEC 60950-1 or IEC 62368-1 A complete device, assembly or component.

Note: All tests specified in this document may not necessarily be carried out at the production site of the final product. The best test site for routine electrical safety tests is determined by the equipment manufacturer.

Determine and conduct audits in accordance with the conformity assessment plan.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version

(including all amendments) applies to this document.

apparatus-Safety requirements) Safety-Part 1: General requirements) Note. GB 4973.1-2022 Audio, video, information technology and communication technology equipment Part 1: Safety requirements (IEC 62368-1:2018, MOD)

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in IEC 60065, IEC 60950-1 and IEC 62368-1 and the following apply.

Electrical safety tests performed on each individual device during or at the end of production.

4 Qualification

The equipment shall pass the applicable routine electrical safety tests in Chapter 5 and the test results shall be recorded in accordance with the requirements of Chapter 6 before leaving the factory.

NOTE: Use applicable methods to carry out the test, for example, find a suitable method to make the necessary connections to carry out the relevant tests.

5.1 Resistance of the protective connection system

For Class I equipment, the protective earthing pin of the MAINS plug or appliance inlet, or the protective earthing terminal of permanently connected equipment, shall be connected to the following.