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

GB/T 17626.6-2017

**Electromagnetic compatibility -- Testing and measurement
techniques -- Immunity to conducted disturbances, induced by
radio-frequency fields**

(English Translation)

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Table of Contents

Foreword...	4
1 Scope...	8
2 Normative References...	8
3 Terms and Definitions...	9
4 General...	10
5 Test Levels...	13
6 Test Equipment and Level Adjustment Procedures...	14
6.1 Test generator...	14
6.2 Coupling and decoupling devices...	15

Foreword

Currently, GB/T 17626 Electromagnetic Compatibility - Testing and Measurement Techniques

includes the following parts.

- GB/T 17626.1-2006 Electromagnetic Compatibility - Testing and Measurement Techniques - Overview of Immunity Tests;
- GB/T 17626.2-2006 Electromagnetic Compatibility(EMC) - Testing and Measurement Techniques - Electrostatic Discharge Immunity Test;
- GB/T 17626.3-2016 Electromagnetic Compatibility- Testing and Measurement Techniques- Radiated, Radio-Frequency, Electromagnetic Field Immunity Test;
- GB/T 17626.4-2008 Electromagnetic Compatibility - Testing and Measurement Techniques - Electrical Fast Transient/Burst Immunity Test;
- GB/T 17626.5-2008 Electromagnetic Compatibility - Testing and Measurement Techniques - Surge Immunity Test;
- GB/T 17626.6-2017 Electromagnetic Compatibility - Testing and Measurement Techniques - Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields;
- GB/T 17626.7-2008 Electromagnetic Compatibility - Testing and Measurement Techniques - General Guide on Harmonics and Inter-Harmonics Measurements and

Instrumentation for Power Supply Systems and Equipment;

- GB/T 17626.8-2006 Electromagnetic Compatibility (EMC) - Part 8. Testing and Measurement Techniques - Power Frequency Magnetic Field Immunity Test;
- GB/T 17626.9-2011 Electromagnetic Compatibility - Testing and Measurement Techniques - Pulse Magnetic Field Immunity Test;
- GB/T 17626.10-1998 Electromagnetic Compatibility - Testing and Measurement Techniques - Damped Oscillatory Magnetic Field Immunity Test;
- GB/T 17626.11-2008 Electromagnetic Compatibility - Testing and Measurement Techniques - Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests;
- GB/T 17626.12-2013 Electromagnetic Compatibility - Testing and Measurement Techniques - Ring Wave Immunity Test;
- GB/T 17626.13-2006 Electromagnetic Compatibility (EMC) - Testing and Measurement Techniques - Harmonics and Inter-harmonics including Mains Signalling at A.C. Power Port Low Frequency Immunity Test;
- GB/T 17626.14-2005 Electromagnetic Compatibility - Testing and Measurement Techniques - Voltage Fluctuation Immunity Test;
- GB/T 17626.15-2011 Electromagnetic Compatibility-Testing and Measurement Techniques - Flickermeter - Functional and Design Specifications;
- GB/T 17626.16-2007 Electromagnetic Compatibility - Testing and Measurement Techniques - Test for Immunity to Conducted Common Mode Disturbances in the Frequency Range 0 Hz to 150 kHz;
- GB/T 17626.17-2005 Electromagnetic Compatibility - Testing and Measurement Techniques - Ripple on D.C. Input Power Port Immunity Test;
- GB/T 17626.18-2016 Electromagnetic Compatibility - Testing and Measurement Techniques - Damped Oscillatory Wave Immunity Test;
- GB/T 17626.20-2014 Electromagnetic Compatibility - Testing and Measurement Techniques - Emission and Immunity Testing in Transverse Electromagnetic (TEM) Waveguide;

- GB/T 17626.21-2014 Electromagnetic Compatibility - Testing and Measurement Techniques - Reverberation Chamber Test Methods
- GB/T 17626.24-2012 Electromagnetic Compatibility - Testing and Measurement Techniques - Test Methods for Protective Devices for HEMP Conducted Disturbance;
- GB/T 17626.27-2006 Electromagnetic Compatibility (EMC) - Testing and Measurement Techniques - Unbalance Immunity Test;
- GB/T 17626.28-2006 Electromagnetic Compatibility (EMC) - Testing and Measurement Techniques - Variation of Power Frequency Immunity Test;
- GB/T 17626.29-2006 Electromagnetic Compatibility (EMC) - Testing and Measurement Techniques - Voltage Dips Short Interruptions and Voltage Variations on D.C. Input Power Port Immunity Tests;
- GB/T 17626.30-2012 Electromagnetic Compatibility - Testing and Measurement Techniques - Power Quality Measurement Methods;
- GB/T 17626.34-2012 Electromagnetic Compatibility-Testing and Measurement Techniques - Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests for Equipment with Mains Current More than 16 A per Phase.

This Part is Part 6 of GB/T 17626.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part replaced GB/T 17626.6-2008 Electromagnetic Compatibility - Testing and Measurement Techniques - Immunity to Conducted Disturbances Induced by Radio-Frequency

Fields. Compared with GB/T 17626.6-2008, the major technical contents of this Part are as follows.

- Modify the use of some CDNs;
- Modify the calibration method of the current clamp;
- Re-edited Clause 7 "Test Arrangement and Injection Method";
- Modify Annex A, adding decoupling clamps, etc.;
- Add Annex G Measurement Uncertainty of the Voltage Test Level;
- Add informative Annexes H, I and J.

This Part used the translation method to equivalently adopt IEC 61000-4-6:2013 (Edition 4.0)

Electromagnetic Compatibility (EMC) - Part 4-6: Testing and Measurement Techniques - Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields.

The Chinese documents that have consistent correspondence with the international documents

normatively cited in this Part are as follows.

--- GB/T 4365-2003 Electrotechnical Terminology - Electromagnetic Compatibility [IEC 60050(161):1990, IDT]

In order to comply with the compilation requirements of national standards and Chinese expression habits and to correct several clerical errors in IEC 61000-4-6:2013, the following editorial changes have been made in this Part.

--- Change the original standard name "Electromagnetic Compatibility (EMC) - Part 4-6: Testing and Measurement Techniques - Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields" into "Electromagnetic Compatibility - Testing and Measurement Techniques - Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields";

--- Modify the Paragraph 1 of Clause 5 from "intentional electromagnetic fields emitted from RF transmitters" into "electromagnetic fields emitted from RF transmitters";

--- Change the location of NOTE 1 in 6.2 behind Table 3;

--- CORRECT "when the guidance of 7.4.1 is followed" in NOTE 1 of 6.2.3.1 INTO "when the guidance of 7.7 is followed";

--- CORRECT "uncertainty related to 7.4.1 is not considered in Annex G" in NOTES 15 and

21 of Annex G INTO "uncertainty related to 7.7 is not considered in Annex G";

--- Add an item in Bibliography.

This Part was proposed by and under the jurisdiction of National Technical Committee on Electromagnetic Compatibility of Standardization Administration of China (SAC/TC 246).

Drafting organization of this Part. The 3rd Research Institute of China Electronics