

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

SN/T 4687-2016

**Methods of measurement of electromagnetic compatibility for
electric toys
(English Translation)**

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Foreword

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

1 Scope

This standard specifies the measurement method for electromagnetic compatibility of electric toys.

This standard is applicable to electromagnetic compatibility measurement of harassment and immunity of electric toys.

This standard does not apply to radio controllers in toys, toys powered by power supply systems such as motor vehicles, ships and airplanes.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. For undated references, the latest version (including all amendments) applies to this document.

GB 4343.1-2009 Electromagnetic compatibility requirements for household appliances, power tools and similar appliances Part 1. Emission (CISPR14-1.2005, IDT) GB/T 4343.2-2009 Electromagnetic compatibility requirements for household appliances, power tools and similar appliances Part 2. Immunity (CISPR) 14-2.2008, IDT) GB/T 4365-2003 Electrotechnical terminology electromagnetic compatibility (IEC 60050(161)..1990, IDT) GB/T 6113.101-2008 Specification for radio disturbance and immunity measuring equipment and methods of measurement Part 1-1. Radio instructions Disturbance and immunity measuring equipment measuring equipment (CISPR16-1-1.2006, IDT) GB/T 6113.102-2008 Specification for radio disturbance and immunity measuring equipment and methods of measurement Part 1-2. Radio disturbance and Immunity Measurement Equipment Auxiliary Equipment Conducted Harassment (CISPR16-1-2.2006, IDT) GB/T 6113.103-2008 Specification for Radio Harassment and Immunity Measurement Equipment and Methods of Measurement Part 1-3 Disturbance and Immunity Measurement Equipment Aid Equipment Harassment Power (CISPR16-1-3.2004, IDT) GB/T 6113.104-2008 Radio disturbance and immunity measurement equipment Aid equipment radiation disturbance (CISPR16-1-4.

2005, IDT)

GB/T 6113.202-2008 Specification for radio disturbance and immunity measuring equipment and methods of measurement Part 2-2. Radio disturbance and Immunity Measurement Methods Harmonic Power Measurement (CISPR16-2-2.2004, IDT) GB/T 9254-2008 Radio disturbance limits and measurement methods for information technology equipment (CISPR22.2006, IDT) GB/T 17618-1998 Information technology equipment immunity limit value and measurement method (CISPR24.1997, IDT) GB/T 17626.2-2006 Electromagnetic compatibility test and measurement techniques Electrostatic discharge immunity test (IEC 61000-4-2.:2001, IDT) GB/T 17626.3-2006 Electromagnetic compatibility test and measurement technology Radio frequency electromagnetic field radiation immunity test (IEC 61000-4-3:2002, IDT) GB/T 17626.4-2008 Electromagnetic compatibility test and measurement technology Electrical fast transient burst immunity test (IEC 61000-4-4:2004, IDT) GB/T 17626.5-2008 Electromagnetic compatibility testing and measurement techniques Surge (impact) immunity test (IEC 61000-4-5.

2005, IDT)

GB/T 17626.6-2008 Electromagnetic compatibility test and measurement techniques Radiated field induced conducted disturbance immunity (IEC 61000-4-6:2006, IDT) GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques Voltage

sag, short interruptions and immunity to voltage variations Test (IEC 61000-4-11:2004, IDT)