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

GB/T 6113.106-2024

Replacing GB/T 6113.106-2018

**Specification for radio disturbance and immunity measuring
apparatus and methods - Part 1-6: Radio disturbance and
immunity measuring apparatus - EMC antenna calibration**
(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 is required.

GB/T (Z)6113 "Specification for Radio Disturbance and Immunity Measuring Equipment and Measurement Methods" is the basic standard for electromagnetic compatibility.

This document is Part 1-6 of GB/T (Z) 6113.GB/T (Z) 6113 has been published in the following parts.

Part 1: Radio disturbance and immunity measuring equipment

- Part 1-1.Radio disturbance and immunity measuring equipment - measuring equipment;
- Part 1-2.Coupling devices for conducting disturbance measurements of radio disturbance and immunity measuring equipment;
- Part 1-3.Radio disturbance and immunity measuring equipment auxiliary equipment disturbance power;
- Part 1-4.Antennas and test sites for radiated disturbance measurements of radio disturbance and immunity measuring equipment;
- Part 1-5.Radio disturbance and immunity measurement equipment 5MHz~18GHz antenna calibration site and reference test site;
- Part 1-6.Calibration of EMC antennas for radio disturbance and immunity measuring equipment.

Part 2: Methods of measurement of radio disturbances and immunity

- Part 2-1.Radio disturbance and immunity measurement methods - Conducted disturbance measurement;
- Part 2-2.Radio disturbance and immunity measurement methods Disturbance power measurement;
- Part 2-3.Radio disturbance and immunity measurement methods Radiated disturbance measurement;
- Part 2-4.Radio disturbance and immunity measurement methods Immunity measurement;
- Part 2-5.Field measurements of disturbance emissions from large equipment.

Part 3: Technical report on radio disturbance and immunity measurements

- Part 3: Radio disturbance and immunity measurement technical report.

Part 4: Modelling of uncertainty, statistics and limits

- Part 4-1.Uncertainty, statistics and limit modelling for standardized EMC test uncertainties;

- Part 4-2.Uncertainty, statistics and limit modelling of uncertainty for measurement equipment and facilities;
- Part 4-3.Uncertainty, statistics and limit modelling Statistical considerations for determining EMC conformity of batch products;
- Part 4-4.Uncertainty, statistics and limit modelling Statistics of complaints and limit calculation models for protecting radio services;
- Part 4-5.Uncertainty, statistics and limit modelling Conditions for use of alternative test methods.

This document replaces GB/T 6113.106-2018 "Radio disturbance and immunity measuring equipment and measurement methods specification Part 1-6.

Compared with GB/T 6113.106-2018, in addition to structural adjustments and edits, this part in addition to the changes in performance, the main technical changes are as follows.

- Added two abbreviations such as CPM (see 3.2);
- Changed the content outlined in the loop antenna calibration (see 5.2.1, 5.2.1 of the 2018 edition);
- Added "three-antenna method" (see 5.2.3);
- Added "current probe method" (see 5.2.4);
- Added "Standard Antenna Method" (see 5.2.5);
- Added "Measurement method of antenna radiation pattern above 1 GHz and its measurement uncertainty assessment" (see Appendix I).

This document is equivalent to CISPR16-1-6.2022 "Radio disturbance and immunity measurement equipment and measurement methods specification 1-6 Part 1: EMC antenna calibration of radio disturbance and immunity measuring equipment.

The following minimal editorial changes were made to this document.

- As CISPR16-1-6.2022 incorporates the amendment sheet, the formulas, figures and tables are numbered in sequence starting from 5.2.3.
- Corrected the following errors in CISPR16-1-6.2022.
 - The uncertainty source in Table 11, "Difference in distance between STA and AUC measurements", corresponds to the standard uncertainty correction.
0.02;
 - The contents of paragraphs 2 and 3 in 9.5.1.4 are repeated, and paragraph 2 is deleted;
 - $F_a(h,p)$ in B.4.2.2 and B.4.3.2 is corrected to $F_a(h,H)$;