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INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

YD/T 6502-2025

Calibration procedures of electromagnetic field sensors and probes (excluding antennas)from 9kHz to 40GHz

频率为9kHz～40GHz电磁场传感器和探头（不包括天线）的校准方法

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6502-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the calibration procedures for electromagnetic field sensors and probes (excluding antennas), applicable to a frequency range of 9kHz to 40GHz. Calibration methods for electromagnetic field sensors and probes in the DC to 9kHz and 40GHz to 90GHz ranges can be performed with reference to this document. This document defines the characteristics, use, and measurement uncertainties of electromagnetic field sensors and probes. The scope covered includes: anisotropic effects, temperature effects, probe linearity effects, modulation effects, source and conductor proximity effects (near-field

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effects), responses to electromagnetic fields at multiple frequencies, and the effects of non-pure harmonic fields generated by power amplifiers when the probe or measuring instrument is partially or fully placed in the field. This document applies to the calibration of electromagnetic field sensors and probes (excluding antennas) with frequencies from 9kHz to 40GHz.

YD/T 6502-2025 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 6,667 other YD/T standards.

Of the 4,379 YD/T standards that do carry an ICS number, 3,421 (78%) fall under ICS 33, in the field of telecommunications.

3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

JB 2293-1978 - Wind tunnel test method of radiator of automobile and tractor

YD/T 4046-2022 - Cloud computing open application model

YD/T 4045-2022 - Big data - technical requirements and test methods for message middleware

YD/T 4044-2022 - Technical requirements for AI-based knowledge graph construction

5 Classification and status

Prefix YD/T: recommended standard.

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