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Passive RF and microwave devices, intermodulation level measurement – Part 6: Measurement of passive intermodulation in antennas

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PASSIVE RF AND MICROWAVE DEVICES, INTERMODULATION LEVEL MEASUREMENT –

Part 6: Measurement of passive intermodulation in antennas

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IEC 62037-6 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

This second edition cancels and replaces the first edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) dynamic testing requirements updated to define impact energy and locations to apply impacts to devices under test;

The text of this International Standard is based on the following documents:

Draft	Report on voting
46/838/FDIS	46/859/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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PASSIVE RF AND MICROWAVE DEVICES, INTERMODULATION LEVEL MEASUREMENT –

Part 6: Measurement of passive intermodulation in antennas

1 Scope

This part of IEC 62037 defines the test fixtures and procedures recommended for measuring levels of passive intermodulation generated by antennas, typically used in wireless communication systems. The purpose is to define qualification and acceptance test methods for antennas for use in low intermodulation (low IM) applications.

2 Normative references

~~The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.~~

~~IEC 62037-1:2012, *Passive r.f. and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods*~~

~~IEC 62037-3, *Passive r.f. and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors*~~

There are no normative references in this document.

IEC 62037-6

Edition 2.0 2021-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Passive RF and microwave devices, intermodulation level measurement – Part 6: Measurement of passive intermodulation in antennas

Dispositifs RF et à micro-ondes passifs, mesure du niveau d'intermodulation – Partie 6: Mesure de l'intermodulation passive dans les antennes



IEC 62037-6:2021-11(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Part 6: Measurement of passive intermodulation in antennas

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DISPOSITIFS RF ET À MICRO-ONDES PASSIFS, MESURE DU NIVEAU D'INTERMODULATION –

Partie 6: Mesure de l'intermodulation passive dans les antennes

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Cette seconde édition annule et remplace la première édition parue en 2013. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

a) mise à jour des exigences relatives aux essais dynamiques afin de définir l'énergie des chocs et la position où ils sont appliqués sur les dispositifs soumis à essai.

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46/838/FDIS	46/859/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

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DISPOSITIFS RF ET À MICRO-ONDES PASSIFS, MESURE DU NIVEAU D'INTERMODULATION –

Partie 6: Mesure de l'intermodulation passive dans les antennes

1 Domaine d'application

La présente partie de l'IEC 62037 définit les dispositifs et les procédures d'essai recommandés pour mesurer les niveaux d'intermodulation passive générés par des antennes, généralement utilisées dans des systèmes de communication sans fil. L'objectif est de définir des méthodes d'essai de qualification et d'acceptation pour des antennes destinées à être utilisées dans des applications de faible intermodulation (faible IM).

2 Références normatives

Le présent document ne contient aucune référence normative.