Passive RF and microwave devices, intermodulation level measurement – Part 7: Field measurements of passive intermodulation
**Title:** Passive RF and microwave devices, intermodulation level measurement – Part 7: Field measurements of passive intermodulation

**Proposed Stability Date:** 2025

**Note from TC/SC Officers:**

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**ICN TC 46:** CABLES, WIRES, WAVEGUIDES, RF CONNECTORS, RF AND MICROWAVE PASSIVE COMPONENTS AND ACCESSORIES

| Secretariat: | United States of America |
| Secretary: | Mr David Wilson |

**Functions Concerned:**
- **EMC**
- **Environment**
- **Quality Assurance**
- **Safety**
- ✅ **Submitted for CENELEC parallel voting**
- ✅ **Not submitted for CENELEC parallel voting**

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Attention IEC-CENELEC parallel voting

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Final Draft International Standard (FDIS) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

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This document is a draft distributed for approval. It may not be referred to as an International Standard until published as such.

In addition to their evaluation as being acceptable for industrial, technological, commercial and user purposes, Final Draft International Standards may on occasion have to be considered in the light of their potential to become standards to which reference may be made in national regulations.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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FOREWORD

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IEC 62037-7 has been prepared by technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

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

<table>
<thead>
<tr>
<th>Draft</th>
<th>Report on voting</th>
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</thead>
<tbody>
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<td>46/XX/FDIS</td>
<td>46/XX/RVD</td>
</tr>
</tbody>
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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.

A list of all parts of the IEC 62037 series, under the general title: *Passive RF and microwave devices, intermodulation level measurement*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.
1 Scope

This part of IEC 62037 defines test methods for reverse measurement of passive intermodulation (PIM) in systems of RF components deployed in the field. Field PIM measurements can be conducted on RF systems terminated into low PIM loads or on antenna feed systems that broadcast the test signals into the environment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62037-1:2021, Passive RF and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods

IEC 62037-2:2021, Passive RF and microwave devices, intermodulation level measurement – Part 2: Measurement of passive intermodulation in coaxial cable assemblies

IEC 62037-3:2021, Passive RF and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors

IEC 62037-5:2021, Passive RF and microwave devices, intermodulation level measurement – Part 5: Measurement of passive intermodulation in filters

IEC 62037-6:2021, Passive RF and microwave devices, intermodulation level measurement – Part 6: Measurement of passive intermodulation in antennas