

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**



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CONTENTS

FOREWORD	3
1 Scope	5
2 Normative references	5
3 Terms, definitions and abbreviated terms	5
3.1 Terms and definitions	5
3.2 Abbreviated terms	5
4 Definitions of antenna as it pertains to PIM	5
4.1 Antenna	5
4.2 Antenna under test	6
4.3 Active antenna	6
4.4 Antenna PIM	6
5 Antenna design and field installation considerations	6
5.1 Environmental effects on PIM performance	6
5.2 Antenna interface connection	6
5.3 Mounting considerations to avoid PIM generation	7
5.4 Neighbouring sources of interference	7
5.5 Standard practices and guidelines for material selection	7
6 PIM measurement considerations	7
6.1 Quality assurance process and handling procedures	7
6.2 Measurement accuracy	7
6.3 Test environment	8
6.4 Safety	8
6.5 Test set-up	8
6.5.1 Coaxial test cable assemblies	8
6.5.2 Defining a good low PIM reference load	8
6.5.3 Test set-up and test site baseline PIM verification	8
6.6 PIM test configurations	9
6.7 Combined environmental and PIM testing	10
6.7.1 General	10
6.7.2 Mechanical considerations	10
6.7.3 Test system cables and connectors	10
6.8 PIM test chamber design	11
6.8.1 General	11
6.8.2 RF absorber materials	11
6.8.3 Supporting structures and walls	11
6.8.4 RF shielding	12
7 Dynamic PIM measurement considerations	12
7.1 General	12
7.2 Dynamic testing methodology	13
7.3 Shocks test	13
Bibliography	14
Figure 1 – Antenna reverse PIM test set-up	9
Figure 2 – Antenna forward PIM test set-up	10
Figure 3 – Hammer description	13

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INTERMODULATION LEVEL MEASUREMENT –****Part 6: Measurement of passive intermodulation in antennas****FOREWORD**

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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.

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

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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

There are no normative references in this document.

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.2 Abbreviated terms

AIM	Active intermodulation
AUT	Antenna under test
ESD	Electrostatic discharge
HPA	High power amplifier
IM	Intermodulation
LNA	Low noise amplifier
PIM	Passive intermodulation
RF	Radio frequency

4 Definitions of antenna as it pertains to PIM

4.1 Antenna

An antenna is that part of a radio transmitting or receiving system which is designed to provide the required coupling between a transmitter or a receiver and the medium in which the radio wave propagates.