



**Global System for Mobile communications (GSM);
Part 4: Harmonized EN for GSM Repeaters covering the
essential requirements of article 3.2 of the R&TTE Directive**

Document Preview

[ETSI EN 300 609-4 V10.2.0 \(2012-09\)](https://standards.iteh.ai/catalog/standards/etsi/a5022721-f6e2-4606-8ac6-2117868241f1/etsi-en-300-609-4-v10-2-0-2012-09)

<https://standards.iteh.ai/catalog/standards/etsi/a5022721-f6e2-4606-8ac6-2117868241f1/etsi-en-300-609-4-v10-2-0-2012-09>

Reference

REN/MSG-0007

Keywords

GSM, repeater

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

(<https://standards.iteh.ai>)
Document Preview

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2012.
All rights reserved.

DECTTM, PLUGTESTSTM, UMTSTM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPPTM and LTETM are Trade Marks of ETSI registered for the benefit of its Members and
of the 3GPP Organizational Partners.
GSM[®] and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	5
Foreword.....	5
Introduction	5
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references	7
3 Definitions and abbreviations.....	7
3.1 Definitions	7
3.2 Abbreviations	8
4 Technical requirements specifications	8
4.1 Environmental profile.....	8
4.2 Conformance requirements	9
4.2.1 Conducted spurious emissions.....	9
4.2.1.1 Definition	9
4.2.1.2 Limit.....	9
4.2.1.3 Conformance.....	9
4.2.2 Radiated spurious emissions.....	9
4.2.2.1 Definition	9
4.2.2.2 Limit.....	10
4.2.2.3 Conformance.....	10
4.2.3 Intermodulation attenuation	10
4.2.3.1 Definition	10
4.2.3.2 Limit.....	10
4.2.3.3 Conformance.....	11
4.2.4 Out-of-band gain.....	11
4.2.4.1 Definition	11
4.2.4.2 Limit.....	11
4.2.4.3 Conformance.....	11
4.2.5 Frequency error.....	11
4.2.5.1 Definition	11
4.2.5.2 Limit.....	11
4.2.5.3 Conformance.....	11
4.2.6 Modulation accuracy at GMSK modulation	12
4.2.6.1 Definition	12
4.2.6.2 Limit.....	12
4.2.6.3 Conformance.....	12
4.2.7 Modulation accuracy at 8-PSK, QPSK, 16-QAM, 32-QAM or AQPSK modulation.....	12
4.2.7.1 Definition	12
4.2.7.2 Limit.....	12
4.2.7.3 Conformance.....	12
5 Testing for compliance with technical requirements.....	13
5.1 Environmental conditions for testing	13
5.2 Interpretation of the measurement results	13
5.3 Essential radio test suites.....	14
5.3.1 Conducted spurious emissions.....	14
5.3.1.1 Initial conditions	14
5.3.1.2 Procedures	14
5.3.2 Radiated spurious emissions	14
5.3.2.1 Initial conditions	14
5.3.2.2 Procedures.....	14
5.3.3 Intermodulation attenuation	15
5.3.3.1 Initial conditions	15

5.3.3.2	Procedures	15
5.3.4	Out-of-band gain.....	15
5.3.4.1	Initial conditions	15
5.3.4.2	Procedures.....	15
5.3.5	Frequency error.....	16
5.3.5.1	Initial conditions	16
5.3.5.2	Procedures.....	16
5.3.6	Modulation accuracy at GMSK modulation	17
5.3.6.1	Initial conditions	17
5.3.6.2	Procedures.....	17
5.3.7	Modulation accuracy at 8-PSK, QPSK, 16-QAM, 32-QAM or AQPSK modulation.....	17
5.3.7.1	Initial conditions	17
5.3.7.2	Procedures.....	17
Annex A (normative):	HS Requirements and conformance Test specifications Table (HS-RTT).....	18
Annex B (informative):	Environmental profile specification	20
Annex C (informative):	Testing of gain for part band repeaters	21
C.1	Rationale for this test.....	21
C.2	Gain outside pass band.....	21
C.2.1	Test purpose	21
C.2.2	Test case	21
C.2.3	Conformance requirement.....	21
Annex D (informative):	The EN title in the official languages	22
Annex E (informative):	Bibliography.....	23
History		24

ETSI EN 300 609-4 V10.2.0 (2012-09)

<https://standards.iteh.ai/catalog/standards/etsi/a5022721-f6e2-4606-8ac6-2117868241f1/etsi-en-300-609-4-v10-2-0-2012-09>