

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Base Stations (BS), Repeaters and User Equipment (UE)
for IMT-2000 Third-Generation cellular networks;
Part 13: Harmonized EN for IMT-2000,
Evolved Universal Terrestrial Radio Access (E-UTRA) (UE)
covering the essential requirements
of article 3.2 of the R&TTE Directive**

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

ETSI EN 301 908-13 V5.2.1 (2011-05)

<https://standards.iteh.ai/catalog/standards/etsi/df1bc009-2f6f-4512-8842-9c36a3a52e2f/etsi-en-301-908-13-v5-2-1-2011-05>



Reference

REN/ERM-TFES-008-13

Keywords

3G, 3GPP, cellular, digital, E-UTRA, IMT-2000,
LTE, mobile, radio, regulation, UMTS

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 2010.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM, **TIPHON**TM, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPPTM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

LTETM is a Trade Mark of ETSI currently being 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	6
Foreword.....	6
Introduction	7
1 Scope	8
2 References	8
2.1 Normative references	8
2.2 Informative references.....	9
3 Definitions, symbols and abbreviations	9
3.1 Definitions.....	9
3.2 Symbols.....	10
3.3 Abbreviations	12
4 Technical requirements specifications	12
4.1 Environmental profile.....	12
4.2 Conformance requirements	12
4.2.1 Introduction.....	12
4.2.2 Transmitter Maximum Output Power	13
4.2.2.1 Definition	13
4.2.2.2 Limits	13
4.2.2.3 Conformance.....	13
4.2.3 Transmitter Spectrum Emission Mask.....	14
4.2.3.1 Definition	14
4.2.3.2 Limits	14
4.2.3.3 Conformance.....	14
4.2.4 Transmitter Spurious Emissions	14
4.2.4.1 Definition	14
4.2.4.2 Limits	14
4.2.4.3 Conformance.....	16
4.2.5 Transmitter Minimum Output Power	16
4.2.5.1 Definition	16
4.2.5.2 Limits	16
4.2.5.3 Conformance.....	16
4.2.6 Receiver Adjacent Channel Selectivity (ACS)	16
4.2.6.1 Definition	16
4.2.6.2 Limits	16
4.2.6.3 Conformance.....	17
4.2.7 Receiver Blocking Characteristics	17
4.2.7.1 Definition	17
4.2.7.2 Limits	17
4.2.7.3 Conformance.....	19
4.2.8 Receiver Spurious Response.....	19
4.2.8.1 Definition	19
4.2.8.2 Limits	19
4.2.8.3 Conformance.....	19
4.2.9 Receiver Intermodulation Characteristics	20
4.2.9.1 Definition	20
4.2.9.2 Limits	20
4.2.9.3 Conformance.....	20
4.2.10 Receiver Spurious Emissions.....	20
4.2.10.1 Definition	20
4.2.10.2 Limits	20
4.2.10.3 Conformance.....	21
4.2.11 Transmitter Adjacent Channel Leakage Power Ratio	21
4.2.11.1 Definition	21

4.2.11.2	Limits	21
4.2.11.3	Conformance	22
5	Testing for compliance with technical requirements.....	22
5.1	Environmental conditions for testing	22
5.2	Interpretation of the measurement results	23
5.3	Essential radio test suites.....	24
5.3.1	Transmitter Maximum Output Power	24
5.3.1.1	Method of test	24
5.3.1.1.1	Initial conditions	24
5.3.1.1.2	Procedure.....	24
5.3.1.2	Test requirements	24
5.3.2	Transmitter Spectrum Emission Mask.....	24
5.3.2.1	Method of test	24
5.3.2.1.1	Initial conditions	24
5.3.2.1.2	Procedure.....	25
5.3.2.2	Test requirements.....	25
5.3.3	Transmitter Spurious Emissions	25
5.3.3.1	Method of test	25
5.3.3.1.1	Initial conditions	25
5.3.3.1.2	Procedure.....	26
5.3.3.2	Test requirements.....	26
5.3.4	Transmitter Minimum Output Power.....	26
5.3.4.1	Method of test	26
5.3.4.1.1	Initial conditions	26
5.3.4.1.2	Procedure.....	26
5.3.4.2	Test requirements.....	27
5.3.5	Receiver Adjacent Channel Selectivity (ACS).....	27
5.3.5.1	Method of test	27
5.3.5.1.1	Initial conditions	27
5.3.5.1.2	Procedure.....	27
5.3.5.2	Test requirements.....	28
5.3.6	Receiver Blocking Characteristics.....	28
5.3.6.1	Method of test	28
5.3.6.1.1	Initial requirements.....	28
5.3.6.1.2	In-Band Procedure.....	28
5.3.6.1.3	Out-Of-Band Procedure.....	29
5.3.6.1.4	Narrow-Band Procedure.....	29
5.3.6.2	Test requirements.....	29
5.3.7	Receiver Spurious Response.....	29
5.3.7.1	Method of test	29
5.3.7.1.1	Initial conditions	29
5.3.7.1.2	Procedure.....	29
5.3.7.2	Test requirements.....	30
5.3.8	Receiver Intermodulation Characteristics	30
5.3.8.1	Method of test	30
5.3.8.1.1	Initial conditions	30
5.3.8.1.2	Procedure.....	30
5.3.8.2	Test requirements.....	31
5.3.9	Receiver Spurious Emissions.....	31
5.3.9.1	Method of test	31
5.3.9.1.1	Procedure.....	31
5.3.9.2	Test requirements.....	31
5.3.10	Transmitter Adjacent Channel Leakage Power Ratio.....	31
5.3.10.1	Method of test	31
5.3.10.1.1	Initial conditions	31
5.3.10.1.2	Procedure.....	32
5.3.10.2	Test requirements.....	32

Annex A (normative):	HS Requirements and conformance Test specifications Table (HS-RTT).....	33
-----------------------------	--	-----------

Annex B (normative):	Environmental profile	35
B.1	General	35
B.1.1	Introduction	35
B.1.2	Temperature	35
B.1.3	Voltage	35
B.1.4	Test environment.....	36
Annex C (informative):	The EN title in the official languages	37
Annex D (informative):	Bibliography.....	38
History		39

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

ETSI EN 301 908-13 V5.2.1 (2011-05)

<https://standards.iteh.ai/catalog/standards/etsi/df1bc009-2f6f-4512-8842-9c36a3a52e2f/etsi-en-301-908-13-v5-2-1-2011-05>