

ETSI EN 302 574-3 V1.1.1 (2010-08)

Harmonized European Standard (Telecommunications series)

**Satellite Earth Stations and Systems (SES);
Harmonized Standard for satellite earth stations for
MSS operating in the 1 980 MHz to
2 010 MHz (earth-to-space) and 2 170 MHz to
2 200 MHz (space-to-earth) frequency bands;
Part 3: User Equipment (UE) for narrowband systems:
Harmonized EN covering the essential requirements
of article 3.2 of the R&TTE Directive**

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

[ETSI EN 302 574-3 V1.1.1 \(2010-08\)](https://standards.itih.ai/catalog/standards/etsi/e1dec8b4-fd43-411e-805c-39115c6c09e1/etsi-en-302-574-3-v1-1-1-2010-08)

<https://standards.itih.ai/catalog/standards/etsi/e1dec8b4-fd43-411e-805c-39115c6c09e1/etsi-en-302-574-3-v1-1-1-2010-08>



Reference

DEN/SES-00283-3

Keywords

MES, mobile, MSS, narrowband, satellite**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

iteh Standards
(<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, PLUGTESTSTM, UMTSTM, TIPHONTM, 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	5
Foreword.....	5
Introduction	5
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references	7
3 Definitions, symbols and abbreviations	7
3.1 Definitions	7
3.2 Symbols	9
3.3 Abbreviations	9
4 Technical requirements specifications	10
4.1 Environmental profile.....	10
4.2 Conformance requirements	10
4.2.1 Introduction.....	10
4.2.2 Unwanted emissions outside the band 1 980 MHz to 2 010 MHz (carrier-on state)	10
4.2.2.1 Justification	10
4.2.2.2 Technical requirements	10
4.2.2.3 Conformance test	12
4.2.3 Unwanted emissions within the band 1 980 MHz to 2 010 MHz (carrier-on state).....	12
4.2.3.1 Justification	12
4.2.3.2 Technical requirements	12
4.2.3.3 Conformance test	14
4.2.4 Unwanted emissions in carrier-off state.....	15
4.2.4.1 Justification	15
4.2.4.2 Technical requirements	15
4.2.4.3 Conformance test	15
4.2.5 UE Control and Monitoring Functions (CMF)	15
4.2.5.1 Absence of a valid network handling of output power.....	15
4.2.5.1.1 Definition.....	15
4.2.5.1.2 Limit	15
4.2.5.1.3 Conformance	16
4.2.5.2 Loss of signal handling of output power	16
4.2.5.2.1 Definition.....	16
4.2.5.2.2 Limit	16
4.2.5.2.3 Conformance	16
5 Testing for compliance with technical requirements.....	16
5.1 Environmental conditions for testing	16
5.2 Interpretation of the measurement results	16
5.3 Essential radio test suites.....	17
5.3.1 General.....	17
5.3.1.1 Description of equipment.....	17
5.3.1.2 Testing of host-connected equipment and plug-in modules.....	18
5.3.1.2.1 Alternative approaches	18
5.3.1.2.2 Alternative A: combined equipment.....	18
5.3.1.2.3 Alternative B: use of a test jig	18
5.3.1.3 CMF/Special Test Equipment (STE)	18
5.3.1.4 General test requirements.....	19
5.3.1.4.1 UE test modes.....	19
5.3.1.4.2 Special Test Equipment (STE)	19
5.3.1.4.3 Laboratory Test Equipment (LTE)	20
5.3.1.4.4 Methods of test for UE RF emissions according to the equipment type.....	20
5.3.1.4.5 Procedures for measurement of radiated emissions.....	21

5.3.1.4.6	Procedures for measurement of conducted emissions	25
5.3.2	Unwanted emissions outside the band 1 980 MHz to 2 010 MHz (carrier-on state)	27
5.3.2.1	Method of test	27
5.3.2.2	Peak measurement.....	28
5.3.2.3	Average measurement.....	28
5.3.2.4	Test requirements.....	28
5.3.3	Unwanted emissions within the band 1 980 MHz to 2 010 MHz (carrier-on state).....	29
5.3.3.1	Method of test	29
5.3.3.2	Measurement method	29
5.3.3.3	Test requirements.....	30
5.3.4	Unwanted emissions in carrier-off state.....	30
5.3.4.1	Method of test	30
5.3.4.2	Measurement method	30
5.3.4.3	Test requirements.....	30
5.3.5	UE Control and Monitoring Functions (CMF)	31
5.3.5.1	Method of test	31
5.3.5.2	Testing of output power in absence of a valid network.....	31
5.3.5.2.1	Test procedure	31
5.3.5.2.2	Measurement method	31
5.3.5.3	Testing of output power in loss of signal	31
5.3.5.3.1	Test procedure	31
5.3.5.3.2	Measurement method	32
Annex A (normative):	HS Requirements and conformance Test specifications Table (HS-RTT).....	33
Annex B (informative):	The EN title in the official languages	35
Annex C (informative):	Environmental profile specification	36
C.1	Introduction	36
C.2	Temperature	36
C.3	Voltage	36
C.4	Test environment.....	37
Annex D (informative):	Bibliography.....	38
History		39

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Harmonized European Standard (Telecommunications series) has been produced by ETSI Technical Committee Satellite Earth Stations and Systems (SES).

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [i.4] (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Directive 1999/5/EC [1] of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity ("the R&TTE Directive").

The requirements relevant to Directive 1999/5/EC [1] are summarised in annex A.

The present document is part 3 of a multi-part deliverable covering the Harmonized Standard for satellite earth stations for MSS operating in the 1 980 MHz to 2 010 MHz (earth-to-space) and 2 170 MHz to 2 200 MHz (space-to-earth) frequency bands, as identified below:

Part 1: "Complementary Ground Component (CGC) for wideband systems: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive";

Part 2: "User Equipment (UE) for wideband systems: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive";

Part 3: "User Equipment (UE) for narrowband systems: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive".

National transposition dates

Date of adoption of this EN:	2 August 2010
Date of latest announcement of this EN (doa):	30 November 2010
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2011
Date of withdrawal of any conflicting National Standard (dow):	31 May 2012