

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Short Range Devices (SRD);  
Test Report Template  
for testing to EN 300 220-2 V2.3.1 (R&TTE)**

---



---

Reference

RTR/ERM-TG28-500

---

Keywords

radio, short range, SRD, testing

**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

---

**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](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 2011.  
All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.  
**3GPP™** and **LTE™** 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 .....	4
Foreword.....	4
Introduction .....	4
1 Scope .....	5
2 References .....	5
2.1 Normative references .....	5
2.2 Informative references.....	5
3 Definitions, symbols and abbreviations .....	5
3.1 Definitions .....	5
3.2 Symbols.....	6
3.3 Abbreviations .....	6
4 Design and content .....	6
<b>Annex A: Example of a test report according to EN 300 220-1 .....</b>	<b>8</b>
History .....	9

---

## 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://ipr.etsi.org>).

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 Technical Report (TR) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

---

## Introduction

It is expected that test report templates from ETSI would be useful for national conformity assessment bodies and market surveillance authorities in countries where the R&TTE Directive [i.1] is in force, as well as for the assistance of manufacturers and test houses, although such a report template would remain voluntary.

As such, test report templates for testing against harmonised standards may be used:

- in countries where the R&TTE Directive [i.1] is in force, for manufacturers' self testing;
- in countries where the R&TTE Directive [i.1] is in force, for the purpose of third-party testing;
- in countries where the R&TTE Directive [i.1] is in force, for parameters that administrations may wish to have tested by a third party (e.g. in the case of market surveillance/enforcement);
- in countries where the R&TTE Directive [i.1] is not in force, for the purpose of third-party testing and type approval.

---

# 1 Scope

The present document provides common text and formatting to be used in a test report for testing to EN 300 220-1 [i.3].

---

## 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

### 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

Not applicable.

### 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] Directive 1999/5/EC 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 (R&TTE Directive).
- [i.2] Void.
- [i.3] ETSI EN 300 220-1 (V2.3.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods".
- [i.4] ISO/IEC 17025:2005/Cor 1:2006: "General requirements for the competence of testing and calibration laboratories".
- [i.5] Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation (EEC) No 339/93.
- [i.6] ETSI EN 300 220-2 (V2.3.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive".

---

## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purpose of the present document, the terms and definitions given in EN 300 220-1 [i.3] apply.

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

dB <sub>i</sub>	antenna gain in decibels relative to an isotropic antenna
dB <sub>m</sub>	dB relative to 1 milliwatt
GHz	Gigahertz
Hz	Hertz
kHz	kilohertz
MHz	Megahertz
mW	milliwatt
nW	nanowatt

## 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

EUT	Equipment Under Test
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
SRD	Short Range Device

---

# 4 Design and content

In general, it is recommended that test reports should comply with the requirements described in clause 5.10 of ISO/IEC 17025:2005 [i.4].

The title page of a test report as described in the present document should include the following title:

"Test report acc. to EN 300 220-1 [i.3]: Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods".

In addition the title page should bear the logo of the accreditation body, if applicable.

The following information should be indicated on every page of the test report:

- 1) Name and/or logo of the entity performing the test.
- 2) Test report reference (standard), with version number and/or revision number, if applicable.
- 3) Test report date.
- 4) Test report number.
- 5) Reference to the EUT.
- 6) Page numbering.

Additional information to be provided in the report:

- 1) The name of the manufacturer.
- 2) The name of the provider (if different from the manufacturer).
- 3) Equipment identification, including brand name, model number, etc.
- 4) Equipment serial number.
- 5) Test dates.
- 6) Hardware and/or software identification (including version numbers and modification state).

- 7) Authorization signatures.
- 8) A list of the test equipment, ancillary equipment and supporting equipment used during the tests with indication of the calibration validity if appropriate.
- 9) Deviations from the standard test procedures (e.g. test procedures defined by Notified Bodies).

Test reports from accredited conformity assessment bodies should furthermore include the indication that market surveillance authorities are required to take due account of such reports as described in Regulation (EC) No 765/2008 [i.5].

---

## Annex A: Example of a test report according to EN 300 220-1

This annex shows an example of how a test report according to EN 300 220-1 [i.3] for RF conformity measurements could be composed. For expediency reasons and due to a necessary change in formatting the test report example is provided as separate document.

The test report example is contained in archive tr\_102749v010201p0.zip which accompanies the present document.



---

## History

<b>Document history</b>		
V1.1.1	May 2010	Publication
V1.2.1	June 2011	Publication