



**LTE;  
Evolved Universal Terrestrial Radio Access (E-UTRA)  
and Evolved Universal Terrestrial  
Radio Access Network (E-UTRAN);  
Derivation of test tolerances  
for User Equipment (UE) radio reception conformance tests  
(3GPP TR 36.904 version 11.4.0 Release 11)**



---

**Reference**

RTR/TSGR-0536904vb40

---

**Keywords**

LTE

**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**

The present document can be downloaded from:  
<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (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  
<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:  
<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

---

**Copyright Notification**

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2016.  
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.

---

## 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 (<https://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 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

---

## Modal verbs terminology

In the present document "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

---

# Contents

Intellectual Property Rights .....	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	4
Introduction .....	4
1 Scope .....	5
2 References .....	5
3 Definitions, symbols and abbreviations .....	5
4 General Principles .....	5
5 to 7 Void.....	5
<b>Annex A: Void .....</b>	<b>6</b>
<b>Annex B: Change History .....</b>	<b>7</b>
History .....	8

---

## Foreword

This Technical Report has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

---

## Introduction

---

## 1 Scope

The present document specifies a general method used to derive Test Tolerances for UE radio reception conformance tests in 3GPP TS 36.521-1 [2], and establishes a system for relating the Test Tolerances to the measurement uncertainties of the Test System.

The test cases which have been analysed to determine Test Tolerances are included as .zip files.

The present document is applicable from Release 10 up to the release indicated on the front page of the present Terminal conformance specifications.

---

## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] to [3] (void)

- [4] 3GPP TS 36.904 Release 12: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Derivation of test tolerances for User Equipment (UE) radio reception conformance tests"

---

## 3 Definitions, symbols and abbreviations

Void

---

## 4 General Principles

The requirements of the present document are provided in 3GPP TS 36.904 Release 12 [4].

---

## 5 to 7 Void

## Annex A: Void

## Annex B: Change History

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2014-04	RAN5#63	R5-142065	-	-	TR 36.904 Skeleton proposed for RAN5#63	-	0.0.1
2014-05	RAN5#63	R5-142066	-	-	TR 36.904 update proposed including all technically endorsed TT analyses on RAN5#63	0.0.1	0.0.2
2014-05	RAN#64	RP-140610	-	-	TR 36.904 presented as 2.0.0 for approval at RAN#64	0.0.2	2.0.0
2014-06	RAN#64	-	-	-	Upgraded to v11.0.0 with no change	2.0.0	11.0.0
2014-09	RAN#65	R5-144067	0001	-	Add Test Tolerance analyses for TS 36.521-1 Test case 8.2.2.2.4	11.0.0	11.1.0
2014-09	RAN#65	R5-144069	0002	-	Add Test Tolerance analyses for TS 36.521-1 Test case 8.2.2.4.3	11.0.0	11.1.0
2014-09	RAN#65	R5-144071	0003	-	Add Test Tolerance analyses for TS 36.521-1 Test case 8.3.1.1.3	11.0.0	11.1.0
2014-09	RAN#65	R5-144073	0004	-	Add Test Tolerance analyses for TS 36.521-1 Test case 8.3.2.1.4	11.0.0	11.1.0
2014-09	RAN#65	R5-144078	0005	-	Add Test Tolerance analysis for TS 36.521-1 Test cases 8.2.1.3.3_E.1 and 8.2.2.3.3_E.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144100	0006	-	Test Tolerance Analysis for TS 36.521-1 TC 8.2.1.4.1_E.1+8.2.2.4.1_E.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144106	0007	-	Test Tolerance Analysis for TS 36.521-1 TC 8.4.1.2.3_E.2+8.4.2.2.3_E.2	11.0.0	11.1.0
2014-09	RAN#65	R5-144110	0008	-	Corrections to TR 36.904 for felCIC Group	11.0.0	11.1.0
2014-09	RAN#65	R5-144113	0009	-	Test Tolerance Analysis for TS 36.521-1 TC 9.2.1.5_E.1+9.2.1.6_E.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144116	0010	-	Test Tolerance Analysis for TS 36.521-1 TC 9.3.1.3.1_E.1+9.3.1.3.2_E.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144119	0011	-	Test Tolerance Analysis for TS 36.521-1 TC 9.5.4.1_E.1+9.5.4.2_E.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144285	0012	-	Add Test Tolerance analysis for TS 36.521-1 Test cases 8.2.1.2.3_C.1 and 8.2.2.2.3_C.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144288	0013	-	Add Test Tolerance analysis for TS 36.521-1 Test cases 8.2.1.2.3_E.1 and 8.2.2.2.3_E.1	11.0.0	11.1.0
2014-09	RAN#65	R5-144296	0014	-	Editorial update of elCIC CSI Test Tolerance analyses	11.0.0	11.1.0
2014-09	RAN#65	R5-144816	0015	-	Add Test Tolerance analysis for TS 36.521-1 Test cases 9.3.6.1_F and 9.3.6.2_F	11.0.0	11.1.0
2014-09	RAN#65	R5-144823	0016	-	Add Test Tolerance analyses for TS 36.521-1 Test cases 9.3.5.2.1 and 9.3.5.2.2	11.0.0	11.1.0
2014-12	RAN#66	R5-145826	0017	-	Test Tolerance Analysis for TS 36.521-1 TC 8.5.1.2.3_E.1+8.5.2.2.3_E.1	11.1.0	11.2.0
2014-12	RAN#66	R5-145834	0018	-	Update Test Tolerance analyses for TS 36.521-1 Test cases 9.5.3.x and 9.5.4.x	11.1.0	11.2.0
2015-03	RAN#67	R5-150217	0019	-	Test Tolerance Analysis for TS 36.521-1 TC 8.3.1.2.1_D_1+8.3.2.2.1_D_1	11.2.0	11.3.0
2016-09	RAN#73	R5-165174	0038	-	Removal of technical content in 36.904 v11.3.0 and substitution with pointer to the next Release	11.3.0	11.4.0



---

# History

<b>Document history</b>		
V11.0.0	July 2014	Publication
V11.1.0	September 2014	Publication
V11.2.0	January 2015	Publication
V11.3.0	April 2015	Publication
V11.4.0	November 2016	Publication