

ETSI TS 134 121-1 V15.4.0 (2020-04)



TECHNICAL SPECIFICATION

**Universal Mobile Telecommunications System (UMTS);
User Equipment (UE) conformance specification;
Radio transmission and reception (FDD);
Part 1: Conformance specification
(3GPP TS 34.121-1 version 15.4.0 Release 15)**

STANDARDS PREVIEW
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Foreword

This Technical Specification has been produced by the 3rd 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

The present document is part 1 of a multi-parts TS:

3GPP TS 34.121-1: User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification.

3GPP TS 34.121-2 [32]: User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS).

NOTE: TS 34.121 has been converted to multipart TS with version 7.0.0. Previous versions are a single part standard 34.121.

1 Scope

The present document specifies the UTRA measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements in addition to requirements for support of RRM (Radio Resource Management) in FDD mode. In addition it specifies conformance testing of RRM requirements for support of E-UTRA when the UE operates in UTRA mode.

NOTE: Conformance testing of RRM requirements for support of UTRA when the UE operates in E-UTRA mode are specified in TS 36.521-3 [38].

The requirements are listed in different clauses only if the corresponding parameters deviate. More generally, tests are only applicable to those mobiles that are intended to support the appropriate functionality. To indicate the circumstances in which tests apply, this is noted in the "*definition and applicability*" part of the test.

For example only Release 5 and later UE declared to support HSDPA shall be tested for this functionality. In the event that for some tests different conditions apply for different releases, this is indicated within the text of the test itself.

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 unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).
 - For a Release 1999 UE, references to 3GPP documents are to version 3.x.y.
 - For a Release 4 UE, references to 3GPP documents are to version 4.x.y.
 - For a Release 5 UE, references to 3GPP documents are to version 5.x.y.
 - For a Release 6 UE, references to 3GPP documents are to version 6.x.y.
 - For a Release 7 UE, references to 3GPP documents are to version 7.x.y.
 - For a Release 8 UE, references to 3GPP documents are to version 8.x.y.
 - For a Release 9 UE, references to 3GPP documents are to version 9.x.y.

[1] to [38] (void)

[39] 3GPP TS 34.121-1 Release 16: "User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification"

3 Definitions, symbols, abbreviations and equations

Void

4 Frequency bands and channel arrangement

The requirements of the present document are provided in 3GPP TS 34.121-1 Release 16 [39].

5 to 11 Void

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Annex A to L: Void

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Annex M (informative): Change history

T Meeting	Doc-1 st -Level	CR	Rev	Subject	Cat	Version - Current	Version -New	Doc-2 nd -Level
TP-07				Approval of the specification		2.0.0	3.0.0	
				No change: replaces invalid zip file on server		3.0.0	3.0.1	
TP-08	TP-000090	001		Editorial corrections to clauses 2, 3, 4 and 5.1	D	3.0.1	3.1.0	T1-000059
TP-08	TP-000090	002		Modifications to clause 5.4 "Output Power Dynamics in the Uplink"	C	3.0.1	3.1.0	T1-000060
TP-08	TP-000090	003		Out-of-synchronisation handling of the UE	B	3.0.1	3.1.0	T1-000061
TP-08	TP-000090	004		Modifications to clauses 5.8, 5.9, 5.10 and 5.11	D	3.0.1	3.1.0	T1-000062
TP-08	TP-000090	005		Modifications to Chapter 6 "Receiver Characteristics"	F	3.0.1	3.1.0	T1-000063
TP-08	TP-000090	006		Modifications to Annex D, Annex E, Annex G and Annex H	F	3.0.1	3.1.0	T1-000067
TP-08	TP-000090	008		Modifications to clauses 5.5, 5.6 and 5.7	F	3.0.1	3.1.0	T1-000069
TP-08	TP-000090	009		Modifications to Chapter 7 "Performance requirements"	F	3.0.1	3.1.0	T1-000070
TP-08	TP-000090	010		Modifications to test power control in downlink	F	3.0.1	3.1.0	T1-000071
TP-08	TP-000090	011		Modifications to clause 5.13 "Transmit Modulation"	F	3.0.1	3.1.0	T1-000072
TP-08	TP-000090	012		Modifications to test for inner loop power control in the uplink	F	3.0.1	3.1.0	T1-000073
TP-08	TP-000090	013		Revision of Annex B: Global in-channel Tx test	F	3.0.1	3.1.0	T1-000074
TP-08	TP-000090	014		Blind transport format detection	B	3.0.1	3.1.0	T1-000075
TP-08	TP-000090	015		Removal of Annex I "Open Items"	D	3.0.1	3.1.0	T1-000077
TP-08	TP-000090	016		Modifications to Chapter 8 "Requirements for support of RRM"	C	3.0.1	3.1.0	T1-000117
TP-08	TP-000090	017		Modifications to Annex C "Measurement channels"	F	3.0.1	3.1.0	T1-000118
TP-08	TP-000090	018		Idle mode test cases (test of performance requirements)	F	3.0.1	3.1.0	T1-000119
TP-09	TP-000163	019		Editorial corrections for References and Frequency Stability (2, 5.2, 5.3)	F	3.1.0	3.2.0	T1-000131
TP-09	TP-000163	020		Corrections for Output Power Dynamics in the Uplink (5.4)	F	3.1.0	3.2.0	T1-000132
TP-09	TP-000163	021		Transients for uplink inner loop power control (5.4.2.4.2)	F	3.1.0	3.2.0	T1-000133
TP-09	TP-000163	022		Transmit On/Off power (5.5.2.4.2)	F	3.1.0	3.2.0	T1-000134
TP-09	TP-000163	023		Change of TFC (5.6.4.2)	F	3.1.0	3.2.0	T1-000135
TP-09	TP-000163	024		Clarification of the definition on Peak Code Domain Error (5.13.2.1)	F	3.1.0	3.2.0	T1-000139
TP-09	TP-000163	025		UE interfering signal definition (6.3, 6.4, 6.5, 6.7)	F	3.1.0	3.2.0	T1-000140
TP-09	TP-000163	026		Performance requirements (7.1, 7.2, 7.3, 7.4, 7.5)	F	3.1.0	3.2.0	T1-000143
TP-09	TP-000163	027		CR on clause 7.6 and 7.7 in TS34.121 (7.6, 7.7)	F	3.1.0	3.2.0	T1-000144
TP-09	TP-000163	028		Performance requirements (7.9, 7.10, 7.11)	F	3.1.0	3.2.0	T1-000146
TP-09	TP-000163	029		Corrections for Annex D (Annex-D)	F	3.1.0	3.2.0	T1-000147
TP-09	TP-000163	030		Corrections for Annex E (Annex-E)	F	3.1.0	3.2.0	T1-000148
TP-09	TP-000163	031		Corrections for Transmit ON/OFF Power, Change of TFC and Power setting in uplink compressed mode (5.5, 5.6, 5.7)	F	3.1.0	3.2.0	T1-000149
TP-09	TP-000163	032		Corrections for power setting in uplink compressed mode (5.7)	F	3.1.0	3.2.0	T1-000136
TP-09	TP-000163	033		CR for subclause 7.8: Power control in downlink (7.8)	B	3.1.0	3.2.0	T1-000145
TP-09	TP-000163	034		Corrections to clause 5.8, 5.9, 5.10, 5.11 and 5.12	F	3.1.0	3.2.0	T1-000137
TP-09	TP-000163	035		Corrections to EVM and PCDE formulae (B.2.7.1, B.2.7.2)	F	3.1.0	3.2.0	T1-000138
TP-09	TP-000163	036		New initial conditions for Spurious emission test case (6.8.4.1)	F	3.1.0	3.2.0	T1-000141
TP-09	TP-000163	037		C.4.1 UL reference measurement channel for BTFD performance requirement (C.4.1)	F	3.1.0	3.2.0	T1-000142
TP-10	TP-000216	038		Corrections to Chapter 3 "Definitions, symbols, abbreviations and equations"	D	3.2.0	3.3.0	T1-000247
TP-10	TP-000216	039		Vocabulary Corrections	D	3.2.0	3.3.0	T1-000253
TP-10	TP-000216	040		Reference Measurement Channels in Annex C	F	3.2.0	3.3.0	T1-000238
TP-10	TP-000216	041		Inclusion of OCNS definition for performance tests	F	3.2.0	3.3.0	T1-000241
TP-10	TP-000216	042		Handling of measurement uncertainties in UE conformance testing (FDD)	F	3.2.0	3.3.0	T1-000250
TP-10	TP-000216	043		Update of Idle mode test cases	F	3.2.0	3.3.0	T1-000252
TP-10	TP-000216	044		UE emission mask measurement filter definition correction	F	3.2.0	3.3.0	T1-000254

T Meeting	Doc-1 st -Level	CR	Rev	Subject	Cat	Version - Current	Version -New	Doc-2 nd -Level
TP-10	TP-000216	045		New structure of TS 34.121	F	3.2.0	3.3.0	T1-000255
TP-10	TP-000216	046		Test for combining TPC commands in soft handover	F	3.2.0	3.3.0	T1-000239
TP-10	TP-000216	047		Corrections to power control tests	F	3.2.0	3.3.0	T1-000240
TP-10	TP-000216	048		Correction to Open Loop Power Control in Uplink	F	3.2.0	3.3.0	T1-000242
TP-10	TP-000216	049		Correction to Transmit ON/OFF Time mask	F	3.2.0	3.3.0	T1-000243r
TP-10	TP-000216	050		Correction to Spurious Emission test	F	3.2.0	3.3.0	T1-000244
TP-10	TP-000216	051		Correction of spurious emission measurement procedure	F	3.2.0	3.3.0	T1-000245
TP-10	TP-000216	052		Out-of-synchronization handling of output power	F	3.2.0	3.3.0	T1-000246
TP-10	TP-000216	053		Clarification of test procedure and test requirement for receiver blocking and spurious response.	F	3.2.0	3.3.0	T1-000248
TP-10	TP-000216	054		Subclause 7.8 Power control in downlink	F	3.2.0	3.3.0	T1-000249
TP-10	TP-000216	055		Downlink compressed mode	F	3.2.0	3.3.0	T1-000251
TP-11	TP-010019	056		CR on Test tolerance for 6.5 Blocking Characteristics	F	3.3.0	3.4.0	T1-010020
TP-11	TP-010019	057		CR on Test tolerance for 6.7 Intermodulation Characteristics	F	3.3.0	3.4.0	T1-010025
TP-11	TP-010019	058		CR on Test tolerance for 5.5.1 Test Tolerance for Transmit OFF power	F	3.3.0	3.4.0	T1-010027
TP-11	TP-010019	059		CR on Test tolerance for 6.6 Spurious Response	F	3.3.0	3.4.0	T1-010028
TP-11	TP-010019	060		CR on Test tolerance for 5.11 Test Tolerance for Transmit Spurious emissions	F	3.3.0	3.4.0	T1-010029
TP-11	TP-010019	061		CR on Test tolerance for Annex F TS34.121	F	3.3.0	3.4.0	T1-010030
TP-11	TP-010019	062		CR on Test tolerance for 5.2 Maximum output power	F	3.3.0	3.4.0	T1-010031
TP-11	TP-010019	063		CR on Test tolerance for 5.4.3 Minimum Output Power	F	3.3.0	3.4.0	T1-010032
TP-11	TP-010019	064		CR on Test tolerance for 5.9 Spectrum Emission Mask	F	3.3.0	3.4.0	T1-010033
TP-11	TP-010019	065		CR on Test tolerance for 5.10 ACLR	F	3.3.0	3.4.0	T1-010034
TP-11	TP-010019	066		CR on Test tolerance for 5.12 Transmit Intermodulation	F	3.3.0	3.4.0	T1-010035
TP-11	TP-010019	067		CR on Test tolerance for 6.2 Reference Sensitivity Level	F	3.3.0	3.4.0	T1-010036
TP-11	TP-010019	068		CR on Test tolerance for 5.3 Frequency Error	F	3.3.0	3.4.0	T1-010037
TP-11	TP-010019	069		CR on Test tolerance for 5.8 Occupied Bandwidth	F	3.3.0	3.4.0	T1-010038
TP-11	TP-010019	070		CR on Test tolerance for 5.13.1 EVM	F	3.3.0	3.4.0	T1-010039
TP-11	TP-010019	071		CR on Test tolerance for 5.13.2 PCDE	F	3.3.0	3.4.0	T1-010040
TP-11	TP-010019	072		CR on Test tolerance for 5.4.4 Out of Synchronisation transmit power	F	3.3.0	3.4.0	T1-010041
TP-11	TP-010019	073		CR on Test tolerance for 6.4 ACS	F	3.3.0	3.4.0	T1-010042
TP-11	TP-010019	074		CR on Test tolerance for 6.8 RX Spurious Emissions	F	3.3.0	3.4.0	T1-010108
TP-11	TP-010019	075		CR on corrections to DL compressed mode	F	3.3.0	3.4.0	T1-010021
TP-11	TP-010019	076		CR on Corrections to DL 384kbps and BTFD measurement channels	F	3.3.0	3.4.0	T1-010022
TP-11	TP-010019	077		CR on Corrections to Maximum output power	F	3.3.0	3.4.0	T1-010023
TP-11	TP-010019	078		CR on RX spurious emissions	F	3.3.0	3.4.0	T1-010024
TP-11	TP-010019	079		CR on Editorial correction to channel number	D	3.3.0	3.4.0	T1-010026
TP-11	TP-010019	080		CR Correction of Annex-E and reference information to Annex E	F	3.3.0	3.4.0	T1-010043
TP-11	TP-010019	081		Editorial corrections	D	3.3.0	3.4.0	T1-010044
TP-11	TP-010076	082	1	Regional requirements on Test Tolerance	F	3.3.0	3.4.0	Presented directly to TP-11
TP-12	TP-010119	083		CR: Addition of Test System uncertainties and Test Tolerances	F	3.4.0	3.5.0	T1-010139
TP-12	TP-010119	084		CR: Measurement accuracy of CPICH RSCP	F	3.4.0	3.5.0	T1-010140
TP-12	TP-010119	085		CR: Measurement accuracy of CPICH Ec/Io	F	3.4.0	3.5.0	T1-010141
TP-12	TP-010119	086		CR: Modifications to the structure of RRM test cases (FDD)	F	3.4.0	3.5.0	T1-010142
TP-12	TP-010119	087		Maintenance CR: Propagation condition 250 km/h	F	3.4.0	3.5.0	T1-010143
TP-12	TP-010119	088		Maintenance CR: Removal of square brackets	F	3.4.0	3.5.0	T1-010144
TP-12	TP-010119	089		Maintenance CR: Tx power for Rx characteristics measurement	F	3.4.0	3.5.0	T1-010145
TP-12	TP-010119	090		Maintenance CR: Correction of Definition of multi-code OCNS signal	F	3.4.0	3.5.0	T1-010146
TP-12	TP-010119	091		Maintenance CR: Conformance requirement to Minimum requirement	D	3.4.0	3.5.0	T1-010147
TP-12	TP-010119	092		Maintenance CR: Test conditions for TS 34.121	F	3.4.0	3.5.0	T1-010148
TP-12	TP-010119	093		Maintenance CR: Editorial correction 34.121	D	3.4.0	3.5.0	T1-010149
TP-12	TP-010119	094		Maintenance CR: closed loop power control close to the limits	C	3.4.0	3.5.0	T1-010150

T Meeting	Doc-1 st -Level	CR	Rev	Subject	Cat	Version - Current	Version -New	Doc-2 nd -Level
TP-12	TP-010119	095		Maintenance CR: removal of annex I	D	3.4.0	3.5.0	T1-010151
TP-12	TP-010119	096		Maintenance CR: correction to annex E	F	3.4.0	3.5.0	T1-010152
TP-12	TP-010119	097		Maintenance CR: corrections to TS34.121	F	3.4.0	3.5.0	T1-010153
TP-13	TP-010184	098		Annex F Measurement uncertainty	F	3.5.0	3.6.0	T1-010342
TP-13	TP-010184	099		RX Spurious emissions	F	3.5.0	3.6.0	T1-010364
TP-13	TP-010184	100		Structure of RRM test cases	F	3.5.0	3.6.0	T1-010356
TP-13	TP-010184	101		Clause 8.2, Idle mode cell reselection delay tests	F	3.5.0	3.6.0	T1-010361
TP-13	TP-010184	102		Proposal for measuring method of Random Access	F	3.5.0	3.6.0	T1-010362
TP-13	TP-010184	103		Modification to OCNS code channels to allow for 384 kbps allocation	F	3.5.0	3.6.0	T1-010339
TP-13	TP-010184	104		Clarification of AWGN definition	F	3.5.0	3.6.0	T1-010340
TP-13	TP-010184	105		Correction to test for inner loop power control in the uplink (FDD)	F	3.5.0	3.6.0	T1-010341
TP-13	TP-010184	106		Core specification change for uplink inner loop power control	F	3.5.0	3.6.0	T1-010355
TP-13	TP-010184	107		Power Control mode in downlink	F	3.5.0	3.6.0	T1-010357
TP-13	TP-010184	108		Correction of frequency range for receiver spurious emission requirements	F	3.5.0	3.6.0	T1-010360
TP-13	TP-010184	109		Test numbering of multi-path fading propagation tests	F	3.5.0	3.6.0	T1-010363
TP-13	TP-010184	110		Measurement of the ON/OFF power during the PRACH preamble	F	3.5.0	3.6.0	T1-010370
TP-14	TP-010259	111		Improvement of test description: CPICH RSCP test case	F	3.6.0	3.7.0	T1-010489
TP-14	TP-010259	112		Improvement of test description: CPICH Ec/Io test case	F	3.6.0	3.7.0	T1-010490
TP-14	TP-010259	113		UTRA Carrier RSSI test case	F	3.6.0	3.7.0	T1-010491
TP-14	TP-010259	114		Corrections and improvements for TS 34.121 subclauses 5, 6 and Annex E	F	3.6.0	3.7.0	T1-010492
TP-14	TP-010259	115		Clarification of test requirements for Transmit ON/OFF time mask	F	3.6.0	3.7.0	T1-010493
TP-14	TP-010259	116		Clarification of procedure for Out-of-synchronisation handling of output power	F	3.6.0	3.7.0	T1-010494
TP-14	TP-010259	117		UE Rx-Tx time difference type 1	F	3.6.0	3.7.0	T1-010495
TP-14	TP-010259	118		UE Transmit Timing	F	3.6.0	3.7.0	T1-010496
TP-14	TP-010259	119		Changes to blocking characteristics and spurious response test cases	F	3.6.0	3.7.0	T1-010497
TP-14	TP-010259	120		Clarification in Spectrum emission mask section	F	3.6.0	3.7.0	T1-010498
TP-14	TP-010259	121		DL Power Control Step Size in performance requirements	F	3.6.0	3.7.0	T1-010499
TP-14	TP-010259	122		DL Compressed mode, correction of pattern	F	3.6.0	3.7.0	T1-010500
TP-14	TP-010259	123		BER/BLER testing based on statistical approach	F	3.6.0	3.7.0	T1-010517
TP-14	TP-010259	124		Deletion of OFF power measurement on "Power setting in uplink compressed mode" Test	F	3.6.0	3.7.0	T1-010520
TP-14	TP-010259	125		Cell reselection delay tests in idle mode	F	3.6.0	3.7.0	T1-010521
TP-14	TP-010259	126		CR for Transmit OFF power measurement	F	3.6.0	3.7.0	T1-010522
TP-15	TP-020039	127		Correction of power terms and definitions	F	3.7.0	3.8.0	T1-020133
TP-15	TP-020039	128		Creation of common default messages for RRM test cases in Annex I	F	3.7.0	3.8.0	T1-020134
TP-15	TP-020039	129		Transmit ON/OFF time mask, Change of TFC and Power setting in uplink compressed mode	F	3.7.0	3.8.0	T1-020135
TP-15	TP-020039	130		Maintenance of Annex B	F	3.7.0	3.8.0	T1-020136
TP-15	TP-020039	131		Correction of minimum test times under fading	F	3.7.0	3.8.0	T1-020137
TP-15	TP-020039	132		Addition of test case description for SFN-CFN observed time difference	F	3.7.0	3.8.0	T1-020138
TP-15	TP-020039	133		Addition of test case description for SFN-SFN observed time difference type 1	F	3.7.0	3.8.0	T1-020139
TP-15	TP-020039	134		Corrections for TS 34.121 subclause 8.7.6	F	3.7.0	3.8.0	T1-020140
TP-15	TP-020039	135		Correction changes in clause 8.7	F	3.7.0	3.8.0	T1-020141
TP-15	TP-020039	136		Update of RRM Cell reselection delay tests in idle mode	F	3.7.0	3.8.0	T1-020142
TP-15	TP-020039	137		Implementation of test tolerances to test cases in subclause 7	F	3.7.0	3.8.0	T1-020143
TP-15	TP-020039	138		RRM Annex F	F	3.7.0	3.8.0	T1-020144
TP-15	TP-020039	139		Connection Diagrams for RRM tests cell re-selection in idle mode	F	3.7.0	3.8.0	T1-020145
TP-15	TP-020039	140		Statistical testing of RRM delay performance	F	3.7.0	3.8.0	T1-020146
TP-15	TP-020039	141		RRM Hard handover test cases	F	3.7.0	3.8.0	T1-020147
TP-15	TP-020039	142		System Simulator and Test System definition	F	3.7.0	3.8.0	T1-020148
TP-15	TP-020039	143		WCDMA 1800 and 1900 additions	F	3.7.0	3.8.0	T1-020170
TP-15	TP-020039	144		Correction of power spectral density	F	3.7.0	3.8.0	T1-020171

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TP-16	TP-020139	145		Spectrum emission mask test case: Change to frequencies to be tested	F	3.8.0	3.9.0	T1-020220
TP-16	TP-020139	146		Power control in downlink, initial convergence	F	3.8.0	3.9.0	T1-020221
TP-16	TP-020139	147		Event triggered reporting in AWGN propagation conditions	F	3.8.0	3.9.0	T1-020222
TP-16	TP-020139	148		Event triggered reporting of multiple neighbours in AWGN propagation conditions	F	3.8.0	3.9.0	T1-020223
TP-16	TP-020139	149		Event triggered reporting of two detectable neighbours in AWGN propagation conditions	F	3.8.0	3.9.0	T1-020224
TP-16	TP-020139	150		Correct reporting of neighbours in fading propagation conditions	F	3.8.0	3.9.0	T1-020226
TP-16	TP-020139	151		Removal of "AFC On" reference from clause 5.3 Frequency Error test	F	3.8.0	3.9.0	T1-020227
TP-16	TP-020139	152		Correct reporting of neighbours in AWGN propagation conditions - inter frequency case	F	3.8.0	3.9.0	T1-020235
TP-16	TP-020139	153		Deletion of test case description 'Correct reporting of neighbours in Fading propagation conditions - Inter frequency case	F	3.8.0	3.9.0	T1-020236
TP-16	TP-020139	154		Correction of UE Tx Timing adjustment rate	F	3.8.0	3.9.0	T1-020237
TP-16	TP-020139	155		Correction of Units of side conditions and test parameters	F	3.8.0	3.9.0	T1-020238
TP-16	TP-020139	156		Structure of subclause 8	F	3.8.0	3.9.0	T1-020239
TP-16	TP-020139	157		Inter-system Handover from UTRAN FDD to GSM	F	3.8.0	3.9.0	T1-020240
TP-16	TP-020139	158		UTRAN to GSM Cell Re-Selection: Change of minimum requirements	F	3.8.0	3.9.0	T1-020241
TP-16	TP-020139	159		Cell reselection in idle mode: CR for testcase	F	3.8.0	3.9.0	T1-020242
TP-16	TP-020139	160		Cell reselection in idle mode: CR for annex F.4	F	3.8.0	3.9.0	T1-020243
TP-16	TP-020139	161		UTRAN to GSM cell reselection: CR for testcase	F	3.8.0	3.9.0	T1-020244
TP-16	TP-020139	162		UTRAN to GSM cell reselection: CR for annex F.4	F	3.8.0	3.9.0	T1-020245
TP-16	TP-020139	163		Test parameters of FDD/FDD Hard Handover test case	F	3.8.0	3.9.0	T1-020246
TP-16	TP-020139	164		Addition of details for RRM test cases in 8.3.7.1 and 8.3.7.2 (Cell Re-selection in URA_PCH)	F	3.8.0	3.9.0	T1-020247
TP-16	TP-020139	165		Addition of details for RRM test cases in 8.4.1 (RRC Re-establishment delay)	F	3.8.0	3.9.0	T1-020248
TP-16	TP-020139	166		Addition of details for RRM test case 8.3.1	F	3.8.0	3.9.0	T1-020249
TP-16	TP-020139	167		Addition of details for RRM test case 8.3.5.1	F	3.8.0	3.9.0	T1-020250
TP-16	TP-020139	168		Addition of details for RRM test case 8.3.5.2	F	3.8.0	3.9.0	T1-020251
TP-16	TP-020139	169		UE RX TX time difference: CR for testcase	F	3.8.0	3.9.0	T1-020252
TP-16	TP-020139	170		UE RX TX time difference: CR for annex	F	3.8.0	3.9.0	T1-020253
TP-16	TP-020139	171		Correction for SSDT test parameters and UL DPCCH slot format for performance	F	3.8.0	3.9.0	T1-020265
TP-16	TP-020139	172		Correction of UE FDD EVM definition	F	3.8.0	3.9.0	T1-020266
TP-16	TP-020139	173		Clarification of Meaning of FDR	F	3.8.0	3.9.0	T1-020267
TP-16	TP-020139	174		Modification to the test case for RX spurious emissions in TS34.121	F	3.8.0	3.9.0	T1-020268
TP-16	TP-020139	175		Editorial correction to Open Loop Power Control and Transmit ON/OFF Time mask in TS34.121	F	3.8.0	3.9.0	T1-020422
TP-16	TP-020139	176		Corrections to ACLR in TS34.121	F	3.8.0	3.9.0	T1-020423
TP-17	TP-020185	177	-	Addition of sub clause 8.7.6.2 – UE Rx-Tx time	F	3.9.0	3.10.0	T1-020453
TP-17	TP-020185	178	-	Addition of test case Cell reselection in CELL_PCH	F	3.9.0	3.10.0	T1-020454
TP-17	TP-020185	179	-	Addition of test case Transport format combination	F	3.9.0	3.10.0	T1-020455
TP-17	TP-020185	180	-	Maintenance of Re-selection and handover test	F	3.9.0	3.10.0	T1-020456
TP-17	TP-020185	181	-	Correction of test parameters of Handover to inter-	F	3.9.0	3.10.0	T1-020457
TP-17	TP-020185	182	-	Addition of details for RRM test case 8.7.3C (UE	F	3.9.0	3.10.0	T1-020458
TP-17	TP-020185	183	-	Corrections to clause 6 and 7 for editorial errors	F	3.9.0	3.10.0	T1-020459
TP-17	TP-020185	184	-	Correction to clause 8.2.2 Cell Re-Selection	F	3.9.0	3.10.0	T1-020460
TP-17	TP-020185	185	-	Correction to clause 8.3.1 FDD/FDD Soft Handover	F	3.9.0	3.10.0	T1-020461
TP-17	TP-020185	187	-	Correction to clause 8.6.1.1 Event triggered	F	3.9.0	3.10.0	T1-020463
TP-17	TP-020185	188	-	Correction to clause 8.6.1.2 Event triggered	F	3.9.0	3.10.0	T1-020464
TP-17	TP-020185	189	-	Correction to clause 8.6.1.3 Event triggered	F	3.9.0	3.10.0	T1-020465
TP-17	TP-020185	190	-	Correction to clause 8.6.1.4 Correct reporting of	F	3.9.0	3.10.0	T1-020466
TP-17	TP-020185	191	-	Correction to clause 8.6.2.1 Correct reporting of	F	3.9.0	3.10.0	T1-020467
TP-17	TP-020185	192	-	Correction to clause 8.7.1 CPICH RSCP	F	3.9.0	3.10.0	T1-020468
TP-17	TP-020185	193	-	Correction to clause 8.7.2 CPICH Ec/Io	F	3.9.0	3.10.0	T1-020469
TP-17	TP-020185	194	-	Correction of test case 'Rx-Tx time difference type	F	3.9.0	3.10.0	T1-020470
TP-17	TP-020185	195	-	FDD/TDD Handover Test Case	F	3.9.0	3.10.0	T1-020471

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TP-17	TP-020185	196	-	Test Requirements for Cell Re-Selection in	F	3.9.0	3.10.0	T1-020474
TP-17	TP-020185	197	-	Correction to clause 8.3.7 Cell Re-selection in	F	3.9.0	3.10.0	T1-020475
TP-17	TP-020185	198	-	Segmented Measurement to be allowed for Inner	F	3.9.0	3.10.0	T1-020476
TP-17	TP-020185	199	-	Correction to clause 8.4.1 RRC Re-establishment	F	3.9.0	3.10.0	T1-020477
TP-17	TP-020185	200	-	Correction to clause 8.7.3 UTRA Carrier RSSI	F	3.9.0	3.10.0	T1-020478
TP-17	TP-020185	201	-	Correction to clause 8.7.4 and 8.7.5 SFN-CFN/SFN	F	3.9.0	3.10.0	T1-020479
TP-17	TP-020185	202	-	Addition of a set of Compressed mode reference	F	3.9.0	3.10.0	T1-020480
TP-17	TP-020185	203	-	Correction of Compressed Mode Performance	F	3.9.0	3.10.0	T1-020481
TP-17	TP-020185	204	-	Tx Power level control during Rx testing	F	3.9.0	3.10.0	T1-020482
TP-17	TP-020185	205	-	Deletion of some subclauses from F.6.1 Statistical	F	3.9.0	3.10.0	T1-020483
TP-17	TP-020185	206	-	Correction to clause 8.3.5 Cell Re-selection in	F	3.9.0	3.10.0	T1-020484
TP-17	TP-020185	207	-	Test Requirements for Cell Re-Selection in CELL-	F	3.9.0	3.10.0	T1-020485
TP-17	TP-020185	208	-	Calculation of Test Requirements for Cell Re-	F	3.9.0	3.10.0	T1-020486
TP-17	TP-020185	209	-	Clarification of the definition of 90 % success rate	F	3.9.0	3.10.0	T1-020491
TP-17	TP-020185	210	-	Update of test requirement derivation of Downlink	F	3.9.0	3.10.0	T1-020492
TP-17	TP-020192	211	-	Correction of regional note in Annex J.1	F	3.9.0	3.10.0	-
TP-18	TP-020294	212	-	Correction of table titles of Demodulation of DCH in closed loop transmit diversity mode test case	F	3.10.0	3.11.0	T1-020631
TP-18	TP-020294	213	-	Maintenance of FDD/TDD Cell Re-selection test case	F	3.10.0	3.11.0	T1-020632
TP-18	TP-020294	214	-	Maintenance of UE Transmit Timing test case	F	3.10.0	3.11.0	T1-020633
TP-18	TP-020294	215	-	Correction of ACLR absolute power limit	F	3.10.0	3.11.0	T1-020634
TP-18	TP-020294	216	-	Correction to clause 8.3.6 Cell Re-selection in CELL_PCH	F	3.10.0	3.11.0	T1-020636
TP-18	TP-020294	217	-	Maintenance of 8.4.2.4 Correct behaviour when reaching maximum transmit power	F	3.10.0	3.11.0	T1-020637
TP-18	TP-020294	218	-	Correction of table numbers	F	3.10.0	3.11.0	T1-020639
TP-18	TP-020294	219	-	Correction of message parameter	F	3.10.0	3.11.0	T1-020640
TP-18	TP-020294	220	-	Correction of test parameter in 8.4.2.3 Correct behaviour when Time-out	F	3.10.0	3.11.0	T1-020641
TP-18	TP-020294	221	-	Modification of the Random Access Test 8.4.2.1, Correct behaviour when receiving an ACK.	F	3.10.0	3.11.0	T1-020651
TP-18	TP-020294	222	-	Modifications to the test case for Inner Loop Power Control in the Uplink in TS34.121	F	3.10.0	3.11.0	T1-020642
TP-18	TP-020294	223	-	Correction of SCH side conditions and other corrections	F	3.10.0	3.11.0	T1-020750
TP-18	TP-020294	224	-	Corrections of test for power setting in uplink compressed mode	F	3.10.0	3.11.0	T1-020751
TP-18	TP-020294	225	-	Text for annex F.6.2 Statistical testing of RRM delay performance	F	3.10.0	3.11.0	T1-020752
TP-18	TP-020294	226	-	Maintenance of annex F.6.1 Statistical testing of BER BLER performance	F	3.10.0	3.11.0	T1-020753
TP-18	TP-020294	227	-	Dual limit BLER tests	F	3.10.0	3.11.0	T1-020754
TP-18	TP-020294	228	-	Correction of test method: Out-of-synchronisation handling of output power	F	3.10.0	3.11.0	T1-020755
TP-18	TP-020294	229	-	Correction of table and subclause references	F	3.10.0	3.11.0	T1-020756
TP-18	TP-020294	230	-	Revision of table titles in Sec 8. to provide unique and unambiguous descriptions	F	3.10.0	3.11.0	T1-020757
TP-18	TP-020294	231	-	Correction to clause 8.3.2 FDD/FDD Hard Handover	F	3.10.0	3.11.0	T1-020758
TP-18	TP-020294	232	-	Correction to PHYSICAL CHANNEL RECONFIGURATION message that activates compressed mode	F	3.10.0	3.11.0	T1-020759
TP-18	TP-020294	233	-	Introduction of test tolerances in Cell Reselection multi carrier test cases	F	3.10.0	3.11.0	T1-020769
TP-18	TP-020294	234	-	Correction of UL reference measurement channel	F	3.10.0	3.11.0	T1-020889
TP-19	TP-030045	235	-	P-CCPCH RSCP test case for FDD to TDD	F	3.11.0	3.12.0	T1-030171
TP-19	TP-030045	236	-	Correct reporting of TDD inter-frequency neighbours	F	3.11.0	3.12.0	T1-030172
TP-19	TP-030045	237	-	Correction for minimum requirement of UE	F	3.11.0	3.12.0	T1-030173
TP-19	TP-030045	238	-	Removal of 34.123-1 Annex A reference	F	3.11.0	3.12.0	T1-030174
TP-19	TP-030045	239	-	Correction of UE parameter for Correct behaviour at	F	3.11.0	3.12.0	T1-030175
TP-19	TP-030045	240	-	Correction of Out-of-synchronisation handling of	F	3.11.0	3.12.0	T1-030178
TP-19	TP-030045	241	-	Removal of uplink dummy DCCH transmission	F	3.11.0	3.12.0	T1-030179
TP-19	TP-030045	242	-	Correction for Combining of TPC commands from	F	3.11.0	3.12.0	T1-030186
TP-20	TP-030099	243	-	Modifications to the test cases for Transmit diversity modes in TS34.121	F	3.12.0	3.13.0	T1-030323