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*Technical Specification*

**Universal Mobile Telecommunications System (UMTS);  
Terminal Conformance Specification;  
Radio Transmission and Reception (TDD)  
(3GPP TS 34.122 version 4.10.0 Release 4)**

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## Foreword

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

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## 1 Scope

This present document specifies the measurement procedure for the conformance test of the mobile station that contain transmitting characteristics, receiving characteristics and performance requirements and requirements for support of RRM (Radio Resource Management) in TDD mode of both options of the TDD mode of UTRA. The two options are the 3,84 Mcps TDD Option and 1,28 Mcps TDD Option, respectively. The requirements are listed in different clauses only if the corresponding parameters deviate.

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## 2 References, Definitions and Technical Content

3GPP TS 34.122 Version 5 covers all Release 4 aspects.

## Annex A (informative): Change history

Meeting -1st- Level	Doc-1st-Level	CR	Rev	Subject	Cat	Version - Current	Version -New	Doc-2nd- Level
TP-12	TP-010120	035		CR:Inclusion of 1,28 Mcps TDD [Rel-4]	B	3.3.0	4.0.0	T1-010156
TP-13	TP-010185	044		Inclusion of Open Loop Power Control, 1,28 McpsTDD	F	4.0.0	4.1.0	T1-010358
TP-13	TP-010185	045		Inclusion of TDD/TDD Cell Reselection on intra-frequency cells, 1,28 Mcps TDD	F	4.0.0	4.1.0	T1-010359
TP-13	TP-010185	046		Deletion of the test: Demodulation of BCH in Block STTD mode (Rel-4)	A	4.0.0	4.1.0	T1-010343
TP-13	TP-010185	047		Test conditions (Rel-4)	A	4.0.0	4.1.0	T1-010346
TP-13	TP-010185	048		Completion of test procedures & test system uncertainties (Rel-4)	A	4.0.0	4.1.0	T1-010348
TP-13	TP-010185	049		Maximum Test System Uncertainty for transmitter tests (Rel-4)	A	4.0.0	4.1.0	T1-010350
TP-13	TP-010185	050		Correction of Out-of-synchronisation test (Rel-4)	A	4.0.0	4.1.0	T1-010352
TP-13	TP-010185	051		Correction of frequency range for receiver spurious emission requirements (Rel4)	A	4.0.0	4.1.0	T1-010366
TP-14	TP-010260	061		Clarification of AWGN definition	A	4.1.0	4.2.0	T1-010501
TP-14	TP-010260	062		RX spurious emissions	A	4.1.0	4.2.0	T1-010504
TP-14	TP-010260	063		Correction of Spurious emissions	A	4.1.0	4.2.0	T1-010506
TP-14	TP-010260	064		Power and ACLR definition corrections	A	4.1.0	4.2.0	T1-010508
TP-14	TP-010260	065		Out of synchronisation handling	A	4.1.0	4.2.0	T1-010510
TP-14	TP-010260	066		Clarification in Spectrum emission mask section	A	4.1.0	4.2.0	T1-010512
TP-14	TP-010260	067		Changes to blocking characteristics and spurious response test cases	A	4.1.0	4.2.0	T1-010514
TP-14	TP-010260	068		maximum output power for mulicode transmission	A	4.1.0	4.2.0	T1-010516
TP-14	TP-010260	069		BER/BLER testing based on statistical approach	A	4.1.0	4.2.0	T1-010519
TP-15	TP-020040	078		Corrections to various reference to tables in the document.	A	4.2.0	4.3.0	T1-020158
TP-15	TP-020040	079		Maintenance of Annex B	A	4.2.0	4.3.0	T1-020159
TP-15	TP-020040	080		Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	A	4.2.0	4.3.0	T1-020160
TP-15	TP-020040	081		New RRM Section Headings (Cat.A)	A	4.2.0	4.3.0	T1-020161
TP-15	TP-020040	082		Cell Re-selection in idle mode test cases	A	4.2.0	4.3.0	T1-020162
TP-15	TP-020040	083		Power Control in the Downlink	A	4.2.0	4.3.0	T1-020163
TP-15	TP-020040	084		Uplink Power Control Performance Test	A	4.2.0	4.3.0	T1-020164
TP-15	TP-020040	085		Statistical testing of RRM delay performance	A	4.2.0	4.3.0	T1-020165
TP-16	TP-020140	094		Cell Re-selection in CELL_PCH test case Rel4	A	4.3.0	4.4.0	T1-020233
TP-16	TP-020140	095		Cell Re-selection in URA_PCH test case Rel99	A	4.3.0	4.4.0	T1-020234
TP-16	TP-020140	096		TDD/TDD Intra-frequency Handover R4	A	4.3.0	4.4.0	T1-020256
TP-16	TP-020140	097		TDD/TDD Inter-frequency Handover R4	A	4.3.0	4.4.0	T1-020258
TP-16	TP-020140	098		TDD/FDD Handover R4	A	4.3.0	4.4.0	T1-020260
TP-16	TP-020140	099		PCCPCH Measurement Performance R4	A	4.3.0	4.4.0	T1-020262
TP-16	TP-020140	100		Corrections to TDD/TDD Cell Re-selection in CELL_FACH state R4	A	4.3.0	4.4.0	T1-020264
TP-16	TP-020140	101		Power Control in the Downlink for HCR Rel4	A	4.3.0	4.4.0	T1-020425
TP-16	TP-020140	102		Inclusion and completion of re-selection test cases for LCRTDD	F	4.3.0	4.4.0	T1-020231
TP-16	TP-020140	103		Power Control in the Downlink for LCRTDD	F	4.3.0	4.4.0	T1-020254
TP-17	TP-020186	105	-	Message Content for TDD Handover Test Cases	A	4.4.0	4.5.0	T1-020473
TP-17	TP-020186	107	-	General corrections for power definitions and test	F	4.4.0	4.5.0	T1-020488
TP-17	TP-020186	109	-	Correction to Receiver Spurious Emission Test Case	A	4.4.0	4.5.0	T1-020490
TP-18	TP-020295	115	-	Corrections of TDD out-of Synchronisation Output power	F	4.5.0	4.6.0	T1-020762
TP-18	TP-020295	116	-	Addition of LCR sub-section of TDD/TDD Intra- and Inter-frequency handover test cases.	F	4.5.0	4.6.0	T1-020764
TP-18	TP-020295	117	-	Correction to power control accuracy test cases in 34.122	A	4.5.0	4.6.0	T1-020896
TP-18	TP-020295	118	-	Averaging period for ACLR	A	4.5.0	4.6.0	T1-020648
TP-18	TP-020295	119	-	Various updates to 34.122 based on RAN4 CRs	A	4.5.0	4.6.0	T1-020898
TP-18	TP-020295	120	-	Inclusion of RRC re-establishment delay test cases	F	4.5.0	4.6.0	T1-020761
TP-18	TP-020295	122	-	Correction to downlink power control requirements in 34.122	A	4.5.0	4.6.0	T1-020644
TP-18	TP-020295	123	-	P-CCPCH RSCP Test Cases for LCRTDD	F	4.5.0	4.6.0	T1-020765
TP-19	TP-030046	125	-	CR 34.122 on RRC connection re-establishment test	A	4.6.0	4.7.0	T1-030136
TP-19	TP-030046	127	-	CR 34.122 on Transport Format Combination Selection	A	4.6.0	4.7.0	T1-030138

TP-19	TP-030046	129	-	CR 34.122 on Timing Advance test case Rel4	A	4.6.0	4.7.0	T1-030140
TP-19	TP-030046	131	-	CR 34.122 on Event-triggered reporting in AWGN test	A	4.6.0	4.7.0	T1-030142
TP-19	TP-030046	133	-	CR 34.122 on Event 1H and 1I triggered reporting in	A	4.6.0	4.7.0	T1-030144
TP-19	TP-030046	135	-	CR 34.122 on Correct reporting of neighbours in fading	A	4.6.0	4.7.0	T1-030146
TP-19	TP-030046	137	-	CR 34.122 on Correct reporting of TDD inter-frequency	A	4.6.0	4.7.0	T1-030148
TP-19	TP-030046	139	-	CR 34.122 on Correct reporting of FDD inter-frequency	A	4.6.0	4.7.0	T1-030150
TP-19	TP-030046	141	-	CR 34.122 on Corrections to TDD Cell Reselection and	A	4.6.0	4.7.0	T1-030152
TP-19	TP-030046	143	-	CR 34.122 on CPICH RSCP Measurement test case Rel4	A	4.6.0	4.7.0	T1-030154
TP-19	TP-030046	145	-	CR 34.122 on Timeslot ISCP Measurement test case Rel4	A	4.6.0	4.7.0	T1-030156
TP-19	TP-030046	147	-	CR 34.122 on UTRA carrier RSSI Measurement test case	A	4.6.0	4.7.0	T1-030158
TP-19	TP-030046	149	-	CR 34.122 on SFN-SFN type 1 test case Rel4	A	4.6.0	4.7.0	T1-030160
TP-19	TP-030046	151	-	CR 34.122 on SFN-CFN observed time difference	A	4.6.0	4.7.0	T1-030162
TP-19	TP-030046	153	-	CR 34.122 on TDD-GSM handover case Rel4	A	4.6.0	4.7.0	T1-030164
TP-19	TP-030046	155	-	CR 34.122 on Correction to Cell Re-selection in	A	4.6.0	4.7.0	T1-030166
TP-19	TP-030046	157	-	CR 34.122 on Reference and measurement performance	A	4.6.0	4.7.0	T1-030168
TP-19	TP-030046	159	-	CR 34.122 on Corrections to P-CCPCH RSCP test case	A	4.6.0	4.7.0	T1-030170
TP-19	TP-030046	161	-	CR 34.122 on Statistical testing of RRM delay	A	4.6.0	4.7.0	T1-030177
TP-19	TP-030046	162	-	CR 34.122 on Addition of LCR Event 1G test	F	4.6.0	4.7.0	T1-030181
TP-19	TP-030046	163	-	CR 34.122 on addition of LCR events 1H and 1I	F	4.6.0	4.7.0	T1-030182
TP-19	TP-030046	164	-	CR 34.122 on addition of LCR neighbour monitoring	F	4.6.0	4.7.0	T1-030183
TP-19	TP-030046	165	-	CR 34.122 on Updates to LCR TDD Hand-over inter and	F	4.6.0	4.7.0	T1-030184
TP-19	TP-030046	166	-	CR 34.122 on Updates to tables in the TDD RX	F	4.6.0	4.7.0	T1-030185
TP-20	TP-030100	167	-	Addition LCR cell re-selection in Cell_PCH, single cell test	F	4.7.0	4.8.0	T1-030329
TP-20	TP-030100	168	-	Addition LCR cell re-selection in PCH, multi-cell test	F	4.7.0	4.8.0	T1-030330
TP-20	TP-030100	169	-	Addition LCR cell re-selection in URA_PCH, single cell test	F	4.7.0	4.8.0	T1-030331
TP-20	TP-030100	170	-	Addition LCR cell re-selection in URA_PCH, multi-cell test	F	4.7.0	4.8.0	T1-030332
TP-20	TP-030100	171	-	Addition LCR cell re-selection in Cell_Fach, multi-cell test	F	4.7.0	4.8.0	T1-030346
TP-20	TP-030100	172	-	Addition LCR cell re-selection in Cell_Fach, single cell test	F	4.7.0	4.8.0	T1-030352
TP-21	TP-030190	173	-	Addition of Test Scenario 4A	F	4.8.0	4.9.0	T1-030806
TP-21	TP-030190	174	-	Addition of LCR TDD/FDD Hand-Over Test	F	4.8.0	4.9.0	T1-030807
TP-21	TP-030190	175	-	Addition of Txformat selection test	F	4.8.0	4.9.0	T1-030808
TP-21	TP-030190	176	-	Measurement CPICH of FDD neighbour	F	4.8.0	4.9.0	T1-030809
TP-21	TP-030190	177	-	Measurement of ISCP intra frequency	F	4.8.0	4.9.0	T1-030810
TP-21	TP-030190	178	-	Measurement test UTRA RSSI absolute	F	4.8.0	4.9.0	T1-030811
TP-21	TP-030190	179	-	Measurement test UTRA RSSI relative	F	4.8.0	4.9.0	T1-030812
TP-21	TP-030190	180	-	Measurement test GSM RSSI	F	4.8.0	4.9.0	T1-030813
TP-22	TP-030281	191	-	Replace Technical Content by pointer to Release 5 version	D	4.9.0	4.10.0	T1-032001



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