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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:

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where:

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 - 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.

The present document is part 2 of a multi-part Technical Specification (TS) covering the New Radio (NR) User Equipment (UE) conformance specification, which is divided in the following parts:

3GPP TS 38.521-1 [13]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone;

3GPP TS 38.521-2: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone;

3GPP TS 38.521-3 [14]: NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios;

3GPP TS 38.521-4 [15]: NR; User Equipment conformance specification; Radio transmission and reception; Part 4: Performance;

3GPP TS 38.522 [16]: NR; User Equipment (UE) conformance specification; Applicability of RF and RRM test cases;

3GPP TS 38.533 [17]: NR; User Equipment (UE) conformance specification; Radio resource management;

1 Scope

The present document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain RF characteristics for frequency Range 2 as part of the 5G-NR.

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 15 and later UE declared to support 5G-NR 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*.

[1] to [27] (void)

[28]

3GPP TS 38.521-2 Release 16: "NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone "

3 Definitions, symbols and abbreviations

Void

4 General

The requirements of the present document are provided in 3GPP TS 38.521-2 Release 16 [28].

5 to 7 Void

Annex A to M: Void

Annex N (informative): Change history

						Change history		
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version	
2017-08	RAN5 #76	R5-174709	-	-	-	Draft skeleton	0.0.1	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180002	-	-	-	Add references	0.1.0	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180103	-	-	-	Add definitions, symbols and abbreviations	0.1.0	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180104	-	=	-	Introduction of Operating bands and Channel arrangement	0.1.0	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180094	-	-	-	Introduction of new test case 6.3.2 Transmit OFF power	0.1.0	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180095	=	-	-	TP to add skeleton of 6.5.1 Occupied bandwidth to 38.521-2	0.1.0	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180096	-	-	-	TP to add skeleton of 6.5.2.1 SEM to 38.521-2	0.1.0	
2018-01	RAN5#1- 5G-NR Adhoc	R5-180097	-	-	-	TP to add skeleton of 6.5.2.3 ACLR to 38.521-2	0.1.0	
2018-03	RAN5 #78	R5-181508	-	-	-	Updated 38.521-2 to extend Annex with additional testing information	0.2.0	
2018-03	RAN5 #78	R5-181680	-	-	-	TP to skeleton of 7.6.1 Inband blocking to 38.521-2	0.2.0	
2018-03	RAN5 #78	R5-181681	_	-	-	5G-NR: Text Proposal to add spurious emissions test case to 38.521-2	0.2.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-181978	-	-	-	Update TS 38.521-2 further to align with the latest TS 38.101-2 spec structure.	0.3.1	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182027	-	-	-	5G-NR Text Proposal to update spurious emissions test case to 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182041	-	-	-	5G-NR Text Proposal to add REFSENS test case to 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182009	-	-	-	General section updated to 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182048	-	-	-	Addition of FR2 test case 6.3.1 Minimum Output Power	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182049	-	-	-	Addition of FR2 test case 6.3.3.2 General ON/OFF time mask	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-181839	-	-	-	Definitions and abbreviations updated to 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-181840	-	-	-	Operating bands and Channel arrangement updated to 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182008	-	-	-	Introduction of new test case 7.4 Maximum input level	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182010	-	-	-	Common uplink configuration table for Tx test cases for TS 38.521-2 non-CA	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182011	-	-	-	TP for 6.5.1 Occupied Bandwidth in TS 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182029	<u> </u> -	=	-	TP for 6.5.2.1 Spectrum Emission Mask in TS 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182031	-	-	-	TP for 6.5.2.3 Adjacent Channel Leakage Ratio in TS 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182043	-	-	-	TP for 7.6.2 InBand Blocking in TS 38.521-2	0.4.0	
2018-04	RAN5#2- 5G-NR Adhoc	R5-182046	-	-	-	TP for 7.5 Adjacent channel selectivity in TS 38.521-2	0.4.0	

2018-04	RAN5#2- 5G-NR Adhoc	<u>R5-18</u> 1844	-	-	-	Add Annex G (normative): Measurement uncertainties and Test Tolerances	0.4.0
2018-04	RAN5#2- 5G-NR Adhoc	<u>R5-18</u> 1844	-	-	-	Add clause 4.4 Test point analysis	0.4.0
2018-05	RAN5 #79	R5-183908	-	-	_	Introduction of New FR2 test case 6.3.3.4 PRACH time mask	0.5.0
2018-05		R5-182769	-	-	-	General section updated to 38.521-2	0.5.0
2018-05	RAN5 #79	R5-183914	-	-	-	TP for FR2 spurious test procedure (38.521-2)	0.5.0
2018-05	RAN5 #79	R5-183925	-	-	-	Update of Refsens test procedure for FR2	0.5.0
2018-05	RAN5 #79	R5-182883	-	-	-	Definitions, symbols and abbreviations updated to 38.521-2	0.5.0
2018-05		R5-182884	-	-	-	Operating bands and Channel arrangement updated to 38.521-2	0.5.0
2018-05	RAN5 #79	R5-182890	-	-	-	Update minimum conformance requirements and test requirement for 6.3.2 Transmit OFF power	0.5.0
2018-05	RAN5 #79	R5-183926	-	-	-	Annex for test case applicability per permitted test method	0.5.0
2018-05	RAN5 #79	R5-183712	-	-	-	Corrections annexes for EIRP and TRP metric definition	0.5.0
2018-05	RAN5 #79	R5-183927	-	-	-	Clean up TBD from Occupied Bandwidth, SEM and ACLR test cases	
2018-05	RAN5 #79	R5-183928	-	-	-	Clean up TBD from ACS and Inband Blocking test cases	0.5.0
2018-05 2018-08	RAN5 #79 RAN5 #80	R5-183948 R5-185348	-	-	-	Statistical Testing Annex for 38.521-2	1.0.0
			-	-	-	Correction to FR2 Spurious TC and introduction of TRP measurement grid requirement	
2018-08	RAN5 #80 RAN5 #80	R5-185350 R5-185490	-	-	-	Addition of Frequency Error test case to TS 38.521-2 FR2_TxSpurious_TestConfig_38.521-2	1.0.0
2018-08 2018-08		R5-185490 R5-185562	 -	+	 -	FR2_1xSpurious_1estConfig_38.521-2 FR2_StoreTxRxBeamPeakCoordinates_38.521-2	1.0.0
2018-08	RAN5 #80	R5-184742	1-	-	-	Update of FR2 test case 6.3.1	1.0.0
2018-08	RAN5 #80	R5-184743	-	-	-	Update of FR2 test case 6.3.3.2	1.0.0
2018-08		R5-184856	-	-	-	General sections updated to 38.521-2	1.0.0
2018-08	RAN5 #80	R5-185519	-	-	-	Updates of FR2 TRx MU and TT in Annex	1.0.0
2018-08	RAN5 #80	R5-185555	-	-	-	FR2_UE_BeamlockInvoke_38.521-2	1.0.0
2018-08	RAN5 #80	R5-185191	-	-	-	Update to Occupied Bandwidth, SEM and ACLR test cases in TS 38.521-2	1.0.0
2018-08	RAN5 #80	R5-185192	-	-	-	Update to ACS and inband blocking test cases in TS 38.521-2	1.0.0
2018-08	RAN5 #80	R5-185187	-	-	-	FR2_RefSens_TestConfig_38.521-2	1.0.0
2018-08	RAN5 #80	R5-185188	-	-	-	DL and UL RMC updated for FR2 tests	1.0.0
2018-08	RAN5 #80	R5-185189	-	-	-	Downlink physical channel updated for FR2 tests	1.0.0
2018-08	RAN5 #80	R5-185190	-	-	-	OCNG Patterns updated for FR2 tests	1.0.0
2018-08	RAN5 #80	R5-185194	-	-	-	Update to Test frequencies for SEM in TS 38.521-2	1.0.0
2018-08	RAN5 #80	R5-185196	-	-	-	Addition of Carrier Leakage test case to TS 38.521-2	1.0.0
2018-08 2018-08	RAN5 #80 RAN5 #80	R5-185193 R5-185197	-	-	-	Addition of Annex Global In-Channel TX-Test to 38.521-2 Introduction of maximum output power test cases	1.0.0
2018-08	RAN5 #80	R5-185195	1	Ε	-	Addition of EVM test case to TS 38.521-2	1.0.0
2018-09	RAN #81	-	1_	l_	_	raised to v15.0.0 with editorial changes only	15.0.0
2018-12	RAN #82	R5-186504	0021	-	F	FR2 RefSens test case updates	15.1.0
2018-12	RAN #82	R5-186505	0022	-	F	Update Text on Store Beam Peak Coordinate	15.1.0
2018-12	RAN #82	R5-186510	0023	-	F	Structure updates to Annex C and G	15.1.0
2018-12	RAN #82	R5-186675	0026	-	F	Updating test case 6.2.3 maximum output power with additional requirements	15.1.0
2018-12	RAN #82	R5-187151	0034	-	F	Updated to Annexes for FR2 tests	15.1.0
2018-12	RAN #82	R5-187152	0035	-	F	General Information updated for TS38.521-2	15.1.0
2018-12	RAN #82	R5-187561	0042	-	F	Update to Table 5.3.5-1 in TS 38.521-2	15.1.0
2018-12	RAN #82	R5-187619	0050	-	F	Update of Section 6.3.3.1 General	15.1.0
2018-12	RAN #82	R5-187838	0045	1	F	Update of transmit signal quality test cases in 38.521-2	15.1.0
2018-12 2018-12	RAN #82 RAN #82	R5-187839 R5-187840	0046 0047	1	F F	Addition of In-band Emissions test case to TS 38.521-2 Addition of EVM equalizer spectral flatness test cases 6.4.2.4 and	15.1.0 15.1.0
			1			6.4.2.5 to TS 38.521-2	
2018-12	RAN #82	R5-187841	0048	1	F	Update of Common Uplink Configuration for FR2	15.1.0
2018-12	RAN #82	R5-187842	0029	1	F	General sections updated to 38.521-2	15.1.0
2018-12	RAN #82	R5-187843	0044	1	F	Update of Global In-channel Tx Test Annex in 38.521-2	15.1.0
2018-12	RAN #82	R5-187886	0020	1	F	FR2 Spurious Emission test case updates	15.1.0
2018-12	RAN #82	R5-187912	0038	1	F	Addition of notes to clarify test point selection into general section of TS 38.521-2	15.1.0
2018-12	RAN #82	R5-188037	0032	1	F	Removing the Editor's notes of SA messages and procedures for all FR2 test cases	15.1.0
2018-12	RAN #82	R5-188038	0036	1	F	FR2 downlink signal level(38.521-2)	15.1.0
2018-12	RAN #82	R5-188063	0027	1	F	Update of FR2 6.3.2 Transmit OFF power	15.1.0
2018-12	RAN #82	R5-188212	0040	2	F	Updates to maximum output power test cases	15.1.0
2018-12 2018-12	RAN #82 RAN #82	R5-188213 R5-188214	0028 0025	1	F	Update of FR2 test case 7.4 Updates of TT in TS 38.521-2 Annex F during RAN5#81	15.1.0 15.1.0
2018-12	RAN #82	R5-188214 R5-188215	0025	1	F	TDD configuration for UE Tx test in FR2	15.1.0
2018-12	RAN #82	R5-188216	0031	1	F	Core alignment CR to capture TS 38.101-2 updates during	15.1.0
2018-12	RAN #82	R5-188217	0041	2	' F	RAN4#89 On measurement grids	15.1.0
2010-12	INTIN #UZ	130-1002-17	00+1	1-	1.	1011 modernom gride	10.1.0

2018-12 RAN 982 R5-186216 0043 F Updates of MU Annax F 15.10 2019-03 RAN 983 R5-191091 0093 - F Updates of MU Annax F 15.20 2019-03 RAN 983 R5-191093 0094 F Editorial cleaning up of test configuration tables in TS 98.521-2 2019-03 RAN 983 R5-191093 0095 - F Editorial cleaning up of test configuration tables in TS 98.521-2 2019-03 RAN 983 R5-191093 0096 - F Editorial cleaning up of test configuration tables in TS 98.521-2 2019-03 RAN 983 R5-191093 0096 - F Editorial cleaning up of test configuration tables in TS 98.521-2 2019-03 RAN 983 R5-191093 0096 - F Update RFP readed on Annax in TS 98.521-2 2019-03 RAN 983 R5-191093 0096 - F Update RFP readed on R5 81 R5 82	0040 40	D 4 N 1 1100	DE 400040	00.40		-	Til	145.4.0
2019-03 RAN 883 RS-191061 0083 F Updates of TT in TS38.521-2 Annex F during RANSHINR4 15.20 2019-03 RAN 883 RS-191003 0084 F Editional cleaning up of test configuration tables in TS 38.521-2 15.20 2019-03 RAN 883 RS-191003 0085 F Editional cleaning up of test configuration tables in TS 38.521-2 15.20 2019-03 RAN 883 RS-191264 0086 F Update TRP measurement procedure Annex in TS38.521-2 15.20 2019-03 RAN 883 RS-191267 0087 F Update TRP measurement procedure Annex in TS38.521-2 15.20 2019-03 RAN 883 RS-191507 0089 F Update Annex K and Annex M in TS38.521-2 15.20 2019-03 RAN 883 RS-191507 0099 F Shared Risk clarification in TS 38.521-2 15.20 2019-03 RAN 883 RS-191607 0099 F Shared Risk clarification in TS 38.521-2 15.20 2019-03 RAN 883 RS-191607 0095 F Addition of FRZ 6.24 Configured transmitted power 15.20 2019-03 RAN 883 RS-191607 0095 F Addition of FRZ 6.24 Configured transmitted power 15.20 2019-03 RAN 883 RS-191607 0095 F Addition of FRZ 6.24 Configured transmitted power 15.20 2019-03 RAN 883 RS-191607 0096 F Addition of FRZ 6.24 Configured transmitted power 15.20 2019-03 RAN 883 RS-191607 0096 F Addition of FRZ 6.24 Configured transmitted power 15.20 2019-03 RAN 883 RS-191607 0096 F Addition of FRZ 6.34.2 Addition prover to the Res Res Res Res Res Res Res Res Res Re								
2019-03 RAN #83 R5-191080 0084 F Editional correction of core alignment in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-191080 0086 F Editional cleaning up of test configuration tables in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-191246 0086 F E Update Arms Kan And Annox M in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-191259 0088 F E Update Arms Kan And Annox M in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-191259 0088 F E Update Lorent Roll #85 R5-191259 0088 F E Update Arms Kan Annox M in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-191690 0093 F E ROLL #85 R5-191259 0089 F E ROLL					2			
2019-03 RAN R83 R5-191084 0086 F Editorial cleaning up of test configuration tables in TS 38.521-2 15.2.0			1		-			
2019-03 RAN 863 R6-191246 0086 . F Update TRP measurement procedure Annex in TS38.521-2 15.2.0 2019-03 RAN 863 R6-191259 0088 . F Update to FRZ test case 6.3.3.4 PRACH time mask 15.2.0 2019-03 RAN 863 R6-191059 0090 . F Exploited to FRZ test case 6.3.3.4 PRACH time mask 15.2.0 2019-03 RAN 863 R6-191050 0090 . F Shared Risk calification in TS 88.521-2 15.2.0 2019-03 RAN 863 R6-191050 0090 . F CR to TS 88.621-2 to add test proposal for Annex F.1 15.2.0 2019-03 RAN 863 R6-191077 0095 . F Addition of FRZ 6.2.4 Configured transmitted power 15.2.0 2019-03 RAN 863 R6-191077 0096 . F Addition of FRZ 6.3.4 Zhasboule power tolerance 15.2.0 2019-03 RAN 863 R6-191077 0096 . F Update of FRZ 6.3.4 Zhasboule power tolerance 15.2.0 2019-03 RAN 863 R6-191078 0096 . F Update of FRZ 6.3.4 Zhasboule power tolerance 15.2.0 2019-03 RAN 863 R6-191078 0096 . F Update of FRZ 6.3.4 Zhasboule power tolerance 15.2.0 2019-03 RAN 863 R6-191078 0096 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-191078 0107 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-191078 0107 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-191078 0107 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-19209 0110 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-19209 0110 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-19209 0110 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-19209 0110 . F FRZ Suntrus Emission test case updates 15.2.0 2019-03 RAN 863 R6-19209 0110 . F FRZ Suntrus Emission Considerate test Case 15.2.0 2019-03 RAN 863 R6-19209 0110 . F FRZ Suntrus Emission Considerate test Case 15.2.0 2019-04 RAN 863 R6-19209 0110 . F FRZ Su					-			
2019-03 RAN #83 R5-191267 0084 F Update Armex K and Annex M in TS88.521-2 15.2.0					-			
2019-03 RAN 863 R5-191629 20088 F V Update to FRZ test cases 6.3.3.4 PRACH time mask 15.2.0 2019-03 RAN 863 R5-191609 20090 F S Shared Risk clarification in TS 38.521-2 to add test proposal for Annex F.1 2019-03 RAN 863 R5-191607 20094 F CR to TS 38.521-2 to add test proposal for Annex F.1 2019-03 RAN 863 R5-191607 20095 F Addition of FRZ 6.3.4 Zhisotic prover test for Annex F.1 2019-03 RAN 863 R5-191607 20095 F Update of FRZ 6.3.4 Zhisotic prover tolerance 15.2.0 2019-03 RAN 863 R5-191608 20097 F Update of FRZ 6.3.4 Zhisotic prover tolerance 15.2.0 2019-03 RAN 863 R5-191609 20096 F Update of FRZ 6.3.4 Zhisotic prover for ZUL CA 2019-03 RAN 863 R5-191609 20099 F Direct of the Minimum output power for ZUL CA 2019-03 RAN 863 R5-191809 20099 F CR V Update of RRZ 6.3.2 Zhisotic prover for ZUL CA 2019-03 RAN 863 R5-191804 20100 F FRZ Sprunous Emission test case updates 2019-03 RAN 863 R5-191804 20100 F FRZ Sprunous Emission test case updates 2019-03 RAN 863 R5-191806 20100 F FRZ Sprunous Emission test case updates 2019-03 RAN 863 R5-191806 20100 F FRZ Sprunous Characteristics of the Interfering Signal 2019-03 RAN 863 R5-19205 20110 F FRZ Sprunous Characteristics of the Interfering Signal 2019-03 RAN 863 R5-19205 20110 F FRZ Sprunous Characteristics of the Interfering Signal 2019-03 RAN 863 R5-19206 20110 F FRZ Sprunous Characteristics of the Interfering Signal 2019-03 RAN 863 R5-19206 20110 F FRZ Sprunous Characteristics 2019-03 RAN 863 R5-19206 20100 F FRZ Sprunous Characteristics 2019-03 RAN 863 R5-19206 20100 F FRZ Sprunous Characteristics 2019-03 RAN 863 R5-19206 20100 F FRZ Sprunous Characteristics 2019-03 RAN 863 R5-19206 20100 F FRZ Sprunous Characteristics 2019-03 RAN 863 R5-19206 20100 F FRZ Sprunous Characteristics 2019-03 RAN 863		RAN #83		0086		F		15.2.0
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2019-03 RAN #83 R5-191676 0094 F CR to TS 38.521-21 to add text proposal for Annex F-1 15.20 2019-03 RAN #83 R5-191677 0096 F Addition of PRE 6.3.4 C Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191679 0096 F Update of FRE 6.3.4 C Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191680 0097 F Update of FRE 6.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191880 0099 F CBW test procedure update for 38.521-2 15.2.0 2019-03 RAN #83 R5-191812 0100 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191812 0100 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191820 0102 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191820 0102 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-191820 0102 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-19202 0110 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-19202 0110 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-19205 0111 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-19205 0111 F FRE 5.3.4 Z Robsoutle power tolerance 15.2.0 2019-03 RAN #83 R5-19265 0099 F CBW test power tolerance 15.2.0 2019-03 RAN #83 R5-19265 0099 F CBW test power 15.2.0 2019-03 RAN #83 R5-19265 0099 F CBW test power tolerance 15.2.0 2019-03 RAN #83 R5-19265 0099 F CBW test power tolerance 15.2.0 2019-03 RAN #83 R5-19265 0104 F Introduction of Aggregate power tolerance in NR SA FRE 15.2.0 2019-03 RAN #83 R5-19265 0104 F Introduction of Aggregate power tolerance in NR SA FRE 15.2.0 2019-03 RAN #83 R5-19265 0114 F Introduction of Aggregate power tolerance in NR SA FRE 15.2.0 2019-03 RAN #83 R5-19265 0114 F Introduction of Aggregate power tolerance in			R5-191507		-	F		
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2019-03 RAN #83 RS-191800 0099 F F DBW test procedure update for 38-621-2 15.2.0 2019-03 RAN #83 RS-191812 0100 F F RF2 Spurious Emission test case updates 15.2.0 2019-03 RAN #83 RS-191824 0102 F Update to Annex K and Annex L 15.2.0 15.					<u> -</u>		<u>'</u>	
2019-03 RAN #83 R6-19182 0100 - F FR2 Spurious Emission test case updates								
2019-03 RAN #83 RS-191824 0102 F Update to Annex K and Annex L 15.2.0 15.2.0 2019-03 RAN #83 RS-19186 0107 F Introduction of Annex on Characteristics of the Interfering Signal 15.2.0 15.2			1		-			
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FR2	2019-03	RAN #83	R5-191824	0102	-	F	Update to Annex K and Annex L	15.2.0
FR2	2019-03	RAN #83	R5-191986	0107	-	F	Introduction of Annex on Characteristics of the Interfering Signal	15.2.0
In TS 38.521-2 In TS 38.521-2 In TS 38.521-2 In TS 38.521-2 In TS 38.521-2 In TS 38.521-2								
2019-03 RAN #83 R5-192095 0111 F Test mode and test loop function activation in SA Rx RF test cases 15.2 0 In TS 38.521-2 2019-03 RAN #83 R5-192451 0082 1 F Update of test case 6.3.4.3, Relative power tolerance in 38.521-2 15.2.0 2019-03 RAN #83 R5-192451 0082 1 F Update of test case 6.3.4.3, Relative power tolerance in 38.521-2 15.2.0 2019-03 RAN #83 R5-192452 0105 1 F FRZ SA Spurious Emission Coexistence test case 15.2.0 2019-03 RAN #83 R5-192648 0106 1 F Introduction of Aggregate power tolerance in NR SA FRZ 15.2.0 2019-03 RAN #83 R5-192649 0117 1 F CR to add UL RMC for 60kHz SCS in Annex A.2.3 15.2.0 2019-03 RAN #83 R5-192650 0113 1 F Update of transmit signal quality test cases for FRZ 15.2.0 2019-03 RAN #83 R5-192650 0114 1 F Update of transmit signal quality test cases in FRZ 15.2.0 2019-03 RAN #83 R5-192652 0114 1 F Update SEM test case in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-192652 0116 1 F Update SEM test case in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-192652 0116 1 F Update SEM test case in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-192655 0104 1 F FRZ Reference Sensitivity EIS spherical coverage 15.2.0 2019-03 RAN #83 R5-192667 0108 1 F Update of transmit signal quality test cases in TS 38.521-2 15.2.0 2019-03 RAN #83 R5-192667 0108 1 F Update SEM test case in TS 38.521-2 2019-03 RAN #83 R5-192667 0108 1 F Update SEM test case in TS 38.521-2 2019-03 RAN #83 R5-192667 0108 1 F EPZ Reference Sensitivity EIS spherical coverage 15.2.0 2019-03 RAN #83 R5-192667 0108 1 F Update of Annex F-Z 15.2.0 2019-03 RAN #83 R5-192660 0103 F Update of TR PA	2019-03	RAN #83	R5-192092	0110	-	F	Test mode and test loop function activation in SA Tx RF test cases	15.2.0
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2019-03 RAN #83 R5-192122 0112 F Update of Global In-channel Tx Test Annex for FR2 15.2.0	2019-03	KAN #83	K5-192095	0111	-	F	·	15.2.0
2019-03 RAN #83 R5-192451 0089 1 F Update of test case 6.3.4.3, Relative power tolerance in 38.521-2 15.2.0	2010-03	BVN #83	R5-102122	0112	 	F		15 2 0
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2019-06	RAN#84	R5-195157	0157	1	F	Introduction of New test case 6.5A.1.1 Occupied bandwidth for CA (2UL CA)	15.3.0
2019-06	RAN#84	R5-195158	0156	1	F	Update Out of band emission test cases in TS 38.521-2	15.3.0
2019-06	RAN#84	R5-195160	0159	1	F	Introduction of SRS time mask for UL-MIMO	15.3.0
2019-06	RAN#84	R5-195404	0172	1	F	Update of transmit signal quality test cases for FR2	15.3.0
2019-06	RAN#84	R5-195417	0154	1	F	38.521-2 implementation of FR2 UL demod OTA tests using single pol Rx TE	15.3.0
2019-06	RAN#84	R5-195432	0168	2	F	Update to 6.2.1.1 UE maximum output power - EIRP and TRP	15.3.0
2019-06	RAN#84	R5-195433	0169	2	F	Update to 6.2.1.2 UE maximum output power - Spherical coverage	15.3.0
2019-06	RAN#84	R5-195434	0140	1	F	Updates of MU and TT in TS 38.521-2	15.3.0
2019-06	RAN#84	R5-195435	0155	1	F	Core alignment with TS 38.101-2	15.3.0
2021-06	RAN#92	R5-212169	0494	-	F	Removal of technical content in 38.521-2 v15.3.0 and substitution with pointer to the next Release	15.4.0

History

	Document history							
V15.0.0	October 2018	Publication						
V15.1.0	April 2019	Publication						
V15.2.0	May 2019	Publication						
V15.3.0	July 2019	Publication						
V15.4.0	August 2021	Publication						