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| 3GPP TS 38.521-2 V16.14.0 (2022-12) | |
| Technical Specification | |
| 3rd Generation Partnership Project;  Technical Specification Group Radio Access Network;  NR;  User Equipment (UE) conformance specification;  Radio transmission and reception;  Part 2: Range 2 Standalone  (Release 16) | |
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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.

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 radio transmission, radio reception and radio resource management test cases;

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

# 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 [28] (void)

[29] 3GPP TS 38.521-2 Release 17: "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 17 [29].

# 5 to 7 Void

Annex A to P: Void

Annex Q (informative):  
Change history

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181795.zip) | - | - | - | 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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181795r1.zip) | - | - | - | 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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181827.zip) | - | - | - | 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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181834.zip) | - | - | - | Operating bands and Channel arrangement updated to 38.521-2 | 0.4.0 |
| 2018-04 | RAN5#2-5G-NR Adhoc | [R5-182008](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181834r1.zip) | - | - | - | Introduction of new test case 7.4 Maximum input level | 0.4.0 |
| 2018-04 | RAN5#2-5G-NR Adhoc | [R5-182010](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181834r2.zip) | - | - | - | 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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-182048.zip) | - | - | - | TP for 6.5.1 Occupied Bandwidth in TS 38.521-2 | 0.4.0 |
| 2018-04 | RAN5#2-5G-NR Adhoc | [R5-182029](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181835.zip) | - | - | - | 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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181835r1.zip) | - | - | - | 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](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-181835r2.zip) | - | - | - | TP for 7.6.2 InBand Blocking in TS 38.521-2 | 0.4.0 |
| 2018-04 | RAN5#2-5G-NR Adhoc | [R5-182046](file:///C:\Users\user\Users\user\AppData\TDoc\Inbox\Tdoc\R5-182049.zip) | - | - | - | TP for 7.5 Adjacent channel selectivity in TS 38.521-2 | 0.4.0 |
| 2018-04 | RAN5#2-5G-NR Adhoc | [R5-18](file:///C:\Users\user\AppData\Local\RAN5%232-5G-NR%20Adhoc%201804_Taiwan\TDoc\Inbox\Tdoc\R5-182049.zip)1844 | - | - | - | Add Annex G (normative): Measurement uncertainties and Test Tolerances | 0.4.0 |
| 2018-04 | RAN5#2-5G-NR Adhoc | [R5-18](file:///C:\Users\user\AppData\Local\RAN5%232-5G-NR%20Adhoc%201804_Taiwan\TDoc\Inbox\Tdoc\R5-182049.zip)1844 | - | - | - | Add clause 4.4 Test point analysis | 0.4.0 |
| 2018-05 | RAN5 #79 | [R5-183908](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183908.zip) | - | - | - | Introduction of New FR2 test case 6.3.3.4 PRACH time mask | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-182769](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-182769.zip) | - | - | - | General section updated to 38.521-2 | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-183914](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183914.zip) | - | - | - | TP for FR2 spurious test procedure (38.521-2) | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-183925](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183925.zip) | - | - | - | Update of Refsens test procedure for FR2 | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-182883](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-182883.zip) | - | - | - | Definitions, symbols and abbreviations updated to 38.521-2 | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-182884](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-182884.zip) | - | - | - | Operating bands and Channel arrangement updated to 38.521-2 | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-182890](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-182890.zip) | - | - | - | Update minimum conformance requirements and test requirement for 6.3.2 Transmit OFF power | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-183926](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183926.zip) | - | - | - | Annex for test case applicability per permitted test method | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-183712](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183712.zip) | - | - | - | Corrections annexes for EIRP and TRP metric definition | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-183927](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183927.zip) | - | - | - | Clean up TBD from Occupied Bandwidth, SEM and ACLR test cases | 0.5.0 |
| 2018-05 | RAN5 #79 | [R5-183928](file:///C:\Users\user\AppData\TDOC\meeting_handling\Tdoc\R5-183928.zip) | - | - | - | Clean up TBD from ACS and Inband Blocking test cases | 0.5.0 |
| 2018-05 | RAN5 #79 | R5-183948 | - | - | - | Statistical Testing Annex for 38.521-2 | 0.5.0 |
| 2018-08 | RAN5 #80 | R5-185348 | - | - | - | Correction to FR2 Spurious TC and introduction of TRP measurement grid requirement | 1.0.0 |
| 2018-08 | RAN5 #80 | R5-185350 | - | - | - | Addition of Frequency Error test case to TS 38.521-2 | 1.0.0 |
| 2018-08 | RAN5 #80 | R5-185490 | - | - | - | FR2\_TxSpurious\_TestConfig\_38.521-2 | 1.0.0 |
| 2018-08 | RAN5 #80 | R5-185562 | - | - | - | FR2\_StoreTxRxBeamPeakCoordinates\_38.521-2 | 1.0.0 |
| 2018-08 | RAN5 #80 | [R5-184742](file:///C:\Users\user\AppData\Roaming\Foxmail7\Temp-7924-20180826082027\Attach\Tdoc\R5-184742.zip) | - | - | - | Update of FR2 test case 6.3.1 | 1.0.0 |
| 2018-08 | RAN5 #80 | [R5-184743](file:///C:\Users\user\AppData\Roaming\Foxmail7\Temp-7924-20180826082027\Attach\Tdoc\R5-184743.zip) | - | - | - | Update of FR2 test case 6.3.3.2 | 1.0.0 |
| 2018-08 | RAN5 #80 | [R5-184856](file:///C:\Users\user\AppData\Roaming\Foxmail7\Temp-7924-20180826082027\Attach\Tdoc\R5-184856.zip) | - | - | - | 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 | RAN5 #80 | R5-185193 | - | - | - | Addition of Annex Global In-Channel TX-Test to 38.521-2 | 1.0.0 |
| 2018-08 | RAN5 #80 | R5-185197 | - | - | - | Introduction of maximum output power test cases | 1.0.0 |
| 2018-08 | RAN5 #80 | R5-185195 | - | - | - | Addition of EVM test case to TS 38.521-2 | 1.0.0 |
| 2018-09 | RAN #81 | - | - | - | - | 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 | RAN #82 | R5-187839 | 0046 | 1 | F | Addition of In-band Emissions test case to TS 38.521-2 | 15.1.0 |
| 2018-12 | RAN #82 | R5-187840 | 0047 | 1 | F | Addition of EVM equalizer spectral flatness test cases 6.4.2.4 and 6.4.2.5 to TS 38.521-2 | 15.1.0 |
| 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 | RAN #82 | R5-188213 | 0028 | 1 | F | Update of FR2 test case 7.4 | 15.1.0 |
| 2018-12 | RAN #82 | R5-188214 | 0025 | 1 | F | Updates of TT in TS 38.521-2 Annex F during RAN5#81 | 15.1.0 |
| 2018-12 | RAN #82 | R5-188215 | 0031 | 1 | F | TDD configuration for UE Tx test in FR2 | 15.1.0 |
| 2018-12 | RAN #82 | R5-188216 | 0039 | 1 | F | Core alignment CR to capture TS 38.101-2 updates during RAN4#89 | 15.1.0 |
| 2018-12 | RAN #82 | R5-188217 | 0041 | 2 | F | On measurement grids | 15.1.0 |
| 2018-12 | RAN #82 | R5-188218 | 0043 | 1 | F | Update to Annex K | 15.1.0 |
| 2018-12 | RAN #82 | RP-182736 | 0024 | 2 | F | Updates of MU Annex F | 15.1.0 |
| 2019-03 | RAN #83 | R5-191091 | 0083 | - | F | Updates of TT in TS38.521-2 Annex F during RAN5#NR4 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191092 | 0084 | - | F | Editorial correction of core alignment in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191093 | 0085 | - | F | Editorial cleaning up of test configuration tables in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191246 | 0086 | - | F | Update TRP measurement procedure Annex in TS38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191247 | 0087 | - | F | Update Annex K and Annex M in TS38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191259 | 0088 | - | F | Update to FR2 test case 6.3.3.4 PRACH time mask | 15.2.0 |
| 2019-03 | RAN #83 | R5-191507 | 0090 | - | F | Shared Risk clarification in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191609 | 0093 | - | F | CR to TS 38.521-2 to add text proposal for Annex F.1 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191676 | 0094 | - | F | Addition of FR2 6.2.4 Configured transmitted power | 15.2.0 |
| 2019-03 | RAN #83 | R5-191677 | 0095 | - | F | Update of FR2 6.3.1 Minimum Output Power | 15.2.0 |
| 2019-03 | RAN #83 | R5-191679 | 0096 | - | F | Addition of FR2 6.3.4.2 Absolute power tolerance | 15.2.0 |
| 2019-03 | RAN #83 | R5-191680 | 0097 | - | F | Update of FR2 6.3.3.2 General ON/OFF time mask | 15.2.0 |
| 2019-03 | RAN #83 | R5-191793 | 0098 | - | F | Introduction of Minimum output power for 2UL CA | 15.2.0 |
| 2019-03 | RAN #83 | R5-191809 | 0099 | - | F | OBW test procedure update for 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-191812 | 0100 | - | F | FR2 Spurious Emission test case updates | 15.2.0 |
| 2019-03 | RAN #83 | R5-191824 | 0102 | - | F | Update to Annex K and Annex L | 15.2.0 |
| 2019-03 | RAN #83 | R5-191986 | 0107 | - | F | Introduction of Annex on Characteristics of the Interfering Signal FR2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192092 | 0110 | - | F | Test mode and test loop function activation in SA Tx RF test cases in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192095 | 0111 | - | F | Test mode and test loop function activation in SA Rx RF test cases in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192122 | 0112 | - | F | Update of Global In-channel Tx Test Annex for FR2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192450 | 0089 | 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 | Updates of test environment for frequency error | 15.2.0 |
| 2019-03 | RAN #83 | R5-192452 | 0105 | 1 | F | FR2 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 FR2 | 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 FR2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192651 | 0114 | 1 | F | Update OBW test case in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192652 | 0115 | 1 | F | Update SEM test case in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192653 | 0116 | 1 | F | Update ACLR test case in TS 38.521-2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192654 | 0101 | 1 | F | FR2 Reference Sensitivity test case updates | 15.2.0 |
| 2019-03 | RAN #83 | R5-192655 | 0104 | 1 | F | FR2 Reference Sensitivity EIS spherical coverage | 15.2.0 |
| 2019-03 | RAN #83 | R5-192667 | 0108 | 1 | F | Update of Annex F.2 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192849 | 0080 | 2 | F | Updates of MU in TS38.521-2 Annex F during RAN5#82 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192843 | 0081 | 2 | F | Updates of TT in TS38.521-2 Annex F during RAN5#82 | 15.2.0 |
| 2019-03 | RAN #83 | R5-192680 | 0103 | 1 | F | 38.521-2 Editor’s Note Updates | 15.2.0 |
| 2019-03 | RAN #83 | RP-190746 | 0118 | 4 | F | Updates to maximum output power test cases | 15.2.0 |
| 2019-03 | RAN#83 | - | - | - | - | Editorial correction of references to TS 38.508-1 clause 4.6 tables | 15.2.0 |
| 2019-06 | RAN#84 | R5-193541 | 0137 | - | F | Alignment of scheduling of DL RMC with scheduling of UL RMC | 15.3.0 |
| 2019-06 | RAN#84 | R5-193552 | 0138 | - | F | Core alignment of RAN4 pending issues in TS 38.521-2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-193575 | 0143 | - | F | Correction of 38.521-2 7.4 | 15.3.0 |
| 2019-06 | RAN#84 | R5-193749 | 0151 | - | F | Updates of ACLR test procedure | 15.3.0 |
| 2019-06 | RAN#84 | R5-193820 | 0152 | - | F | Correction of 38.521-2 clause 2 to 5 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194009 | 0153 | - | F | FR2 Reference Sensitivity test case updates | 15.3.0 |
| 2019-06 | RAN#84 | R5-194243 | 0161 | - | F | Addition FR2 blocking measurement procedure in Annex K | 15.3.0 |
| 2019-06 | RAN#84 | R5-194264 | 0163 | - | F | Correction to FR2 EIRP test configurations | 15.3.0 |
| 2019-06 | RAN#84 | R5-194265 | 0164 | - | F | Correction to FR2 EIS test configurations | 15.3.0 |
| 2019-06 | RAN#84 | R5-194269 | 0165 | - | F | Update FR2 ACS and Inband blocking test cases | 15.3.0 |
| 2019-06 | RAN#84 | R5-194461 | 0170 | - | F | Update to 6.2.3 A-MPR FR2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194618 | 0171 | - | F | Update of Global In-channel Tx Test Annex for FR2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194958 | 0139 | 1 | F | Updates of MU and TT in TS 38.521-2 Annex F during RAN5#NR5 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194968 | 0167 | 1 | F | Update of TC 6.3A.1.1 Minimum output power for 2UL CA | 15.3.0 |
| 2019-06 | RAN#84 | R5-194969 | 0166 | 1 | F | Clean up FR2 SA test cases | 15.3.0 |
| 2019-06 | RAN#84 | R5-194970 | 0160 | 1 | F | Introduction of beam correspondence | 15.3.0 |
| 2019-06 | RAN#84 | R5-194971 | 0162 | 1 | F | Introduction of beam correspondence for CA | 15.3.0 |
| 2019-06 | RAN#84 | R5-194976 | 0173 | 1 | F | Update of Frequency Error Test Case for FR2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194977 | 0175 | 1 | F | Editorial corrections for 6.2.1 UE maximum output power | 15.3.0 |
| 2019-06 | RAN#84 | R5-195080 | 0176 | - | F | Update of FR2 ON\_ON time mask test cases | 15.3.0 |
| 2019-06 | RAN#84 | R5-195147 | 0141 | 1 | F | Addition of new SA FR2 RF test case 6.2.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-195149 | 0142 | 1 | F | Correction of 38.521-2 6.3.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-195151 | 0144 | 1 | F | Introduction of MOP (SA UL CA) | 15.3.0 |
| 2019-06 | RAN#84 | R5-195152 | 0145 | 1 | F | Introduction of OFF power (SA UL CA) | 15.3.0 |
| 2019-06 | RAN#84 | R5-195153 | 0146 | 1 | F | Introduction of Frequency error (SA UL CA) | 15.3.0 |
| 2019-06 | RAN#84 | R5-195154 | 0148 | 1 | F | Introduction of SEM (SA UL CA) | 15.3.0 |
| 2019-06 | RAN#84 | R5-195155 | 0149 | 1 | F | Introduction of ACLR (SA UL CA) | 15.3.0 |
| 2019-06 | RAN#84 | R5-195156 | 0150 | 1 | F | Introduction of General Spurious (SA UL CA) | 15.3.0 |
| 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 |
| 2019-06 | RAN#84 | - | - | - | - | Administrative release upgrade to match the release of 3GPP TS 38.508-1 and TS 38.521-1 which were upgraded at RAN#84 to Rel-16 due to Rel-16 relevant CR(s) | 16.0.0 |
| 2019-09 | RAN#85 | R5-195695 | 0178 | - | F | Change of TS 38.521-2 UL CA MOP Minimum conformance requirements | 16.1.0 |
| 2019-09 | RAN#85 | R5-196069 | 0194 | - | F | Introduction of absolute power tolerance for CA test cases | 16.1.0 |
| 2019-09 | RAN#85 | R5-196165 | 0198 | - | F | Correction of wrong spec reference numbers for TS 38.508-1 | 16.1.0 |
| 2019-09 | RAN#85 | R5-196236 | 0202 | - | F | Correction to test procedure of TC 6.4.2.2 Carrier Leakage | 16.1.0 |
| 2019-09 | RAN#85 | R5-196240 | 0206 | - | F | Clarification on EVM test requirement for PUCCH and PRACH | 16.1.0 |
| 2019-09 | RAN#85 | R5-196427 | 0208 | - | F | Update of FR2 6.2.4 Configured transmitted power | 16.1.0 |
| 2019-09 | RAN#85 | R5-196428 | 0209 | - | F | Update of FR2 6.3.3.2 General ON\_OFF time mask | 16.1.0 |
| 2019-09 | RAN#85 | R5-196431 | 0211 | - | F | Addition of FR2 6.2A.4 Configured transmitted power for 2UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-196433 | 0213 | - | F | Addition of FR2 6.2D.4 Configured transmitted power for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-196434 | 0214 | - | F | Addition of FR2 6.3D.1 Minimum output power for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-196594 | 0220 | - | F | Addition of new test case 6.4A.2.1.2 Error vector magnitude for 3UL CA in FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-196595 | 0221 | - | F | Addition of new test case 6.4A.2.1.3 Error vector magnitude for 4UL CA in FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-196650 | 0225 | - | F | Update of Minimum conformance requirements and test configurations in TC 6.2.2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-196810 | 0229 | - | F | Update to TRP measurement grid section in TS 38.521-2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-196950 | 0239 | - | F | Corrections on clause 2 and 3 in 38.521-2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197384 | 0197 | 1 | F | Update UL-MIMO to UL MIMO to align with RAN4 terminology in FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197385 | 0238 | 1 | F | Update OBW FR2 test case | 16.1.0 |
| 2019-09 | RAN#85 | R5-197386 | 0200 | 1 | F | Alignment of clause 2 to 5 with the core spec | 16.1.0 |
| 2019-09 | RAN#85 | R5-197387 | 0242 | - | F | Integrating the QoQZ Procedures into 38.521-2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197388 | 0219 | 1 | F | Addition of new test case 6.4A.2.1.1 Error vector magnitude for 2UL CA in FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197389 | 0222 | 1 | F | Update of TC 6.3A.1.1 Minimum output power for 2UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197390 | 0223 | 1 | F | Addition of new test case 6.3A.1.2 Minimum output power for 3UL CA in FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197391 | 0224 | 1 | F | Addition of new test case 6.3A.1.3 Minimum output power for 4UL CA in FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197392 | 0227 | 1 | F | Update of Common Uplink Configuration table for PC3 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197393 | 0212 | 1 | F | Addition of FR2 6.3A.3 ON\_OFF time mask for 2 UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197394 | 0215 | 1 | F | Addition of FR2 6.3D.3 General ON\_OFF power for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197395 | 0199 | 1 | F | Addition of new Annex N (normative): UE coordinate system | 16.1.0 |
| 2019-09 | RAN#85 | R5-197500 | 0231 | 1 | F | Update of Spurious Emissions TRP test procedure | 16.1.0 |
| 2019-09 | RAN#85 | R5-197501 | 0233 | 1 | F | Update of FR2 MUs in TS 38.521-2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197503 | 0230 | 1 | F | Update of TRP measurement grids for spurious emissions | 16.1.0 |
| 2019-09 | RAN#85 | R5-197529 | 0180 | 1 | F | New Introduction of TC 6.2A.1.2.1 UE Maximum output power Spherical coverage 2UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197530 | 0181 | 1 | F | New Introduction of TC 6.2A.1.2.2 UE Maximum output power Spherical coverage 3UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197531 | 0182 | 1 | F | New Introduction of TC 6.2A.1.2.3 UE Maximum output power Spherical coverage 4UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197532 | 0183 | 1 | F | New Introduction of TC 6.4A.2.2.1 Carrier leakage 2UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197533 | 0184 | 1 | F | New Introduction of TC 6.4A.2.2.2 Carrier leakage 3UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197534 | 0185 | 1 | F | New Introduction of TC 6.4A.2.2.3 Carrier leakage 4UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197535 | 0189 | 1 | F | Rel-16\_NR\_38.521-2\_Addition of new TC 6.2A.1.1.1 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197536 | 0193 | 1 | F | Additions to the SRS time mask for UL-MIMO test case | 16.1.0 |
| 2019-09 | RAN#85 | R5-197537 | 0195 | 1 | F | Additions to the beam correspondence test case | 16.1.0 |
| 2019-09 | RAN#85 | R5-197538 | 0203 | 1 | F | Correction to RB allocation in 6.2.2 UE maximum output power reduction | 16.1.0 |
| 2019-09 | RAN#85 | R5-197539 | 0204 | 1 | F | Correction to number of measurements of 6.4.2.3 In-band emissions | 16.1.0 |
| 2019-09 | RAN#85 | R5-197540 | 0205 | 1 | F | Correction to UBF in transmit modulation quality test cases | 16.1.0 |
| 2019-09 | RAN#85 | R5-197541 | 0226 | 1 | F | Update of FR2 A-MPR test case | 16.1.0 |
| 2019-09 | RAN#85 | R5-197543 | 0190 | 1 | F | Refsens test case updates | 16.1.0 |
| 2019-09 | RAN#85 | R5-197544 | 0196 | 1 | F | Introduction of beam correspondence to direct far field (DFF) | 16.1.0 |
| 2019-09 | RAN#85 | R5-197545 | 0216 | 1 | F | Updated to Annex A for RF FR2 tests | 16.1.0 |
| 2019-09 | RAN#85 | R5-197546 | 0232 | 1 | F | Integrating the Re-Positioning Concept into Annex K | 16.1.0 |
| 2019-09 | RAN#85 | R5-197614 | 0191 | 1 | F | Spurious test case updates | 16.1.0 |
| 2019-09 | RAN#85 | R5-197642 | 0201 | 1 | F | Correction to 6.5.2.1 SEM and 6.5.2.3 ACLR to consider MPR values | 16.1.0 |
| 2019-09 | RAN#85 | R5-197643 | 0210 | 2 | F | Addition of FR2 6.2A.2 MPR for 2 UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197644 | 0177 | 2 | F | Updates of MU and TT in TS 38.521-2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197645 | 0234 | 2 | F | Addition of the connection setup in TS 38.521-2 | 16.1.0 |
| 2019-12 | RAN#86 | R5-198072 | 0247 | - | F | Introduction of 4 New test cases 6.5A.1 Occupied bandwidth for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198073 | 0248 | - | F | Introduction of 4 New test cases 6.5A.2.1 Spectrum Emission Mask for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198075 | 0249 | - | F | Introduction of 4 New test cases 6.5A.2.2 Adjacent channel leakage ratio for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198078 | 0250 | - | F | New Introduction of TC 6.2A.1.2.4 UE maximum output power - Spherical coverage 5UL CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198079 | 0251 | - | F | New Introduction of TC 6.2A.1.2.5 UE maximum output power - Spherical coverage 6UL CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198080 | 0252 | - | F | New Introduction of TC 6.2A.1.2.6 UE maximum output power - Spherical coverage 7UL CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198081 | 0253 | - | F | New Introduction of TC 6.2A.1.2.7 UE maximum output power - Spherical coverage 8UL CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-198210 | 0260 | - | F | Addition of Common Uplink Configuration for PC1 in SA FR2 6.1 | 16.2.0 |
| 2019-12 | RAN#86 | R5-198381 | 0267 | - | F | Introduction of beam correspondence side conditions | 16.2.0 |
| 2019-12 | RAN#86 | R5-198385 | 0269 | - | F | Update of minimum conformance requirements for SA FR2 7.4 | 16.2.0 |
| 2019-12 | RAN#86 | R5-198636 | 0276 | - | F | General clause updated for FR2 spec | 16.2.0 |
| 2019-12 | RAN#86 | R5-198730 | 0278 | - | F | Correction of test requirements | 16.2.0 |
| 2019-12 | RAN#86 | R5-199086 | 0262 | 1 | F | CR to 38.521-2 on Measurement Grids for PC1 UEs | 16.2.0 |
| 2019-12 | RAN#86 | R5-199087 | 0243 | 2 | F | Updates of MU and TT in TS 38.521-2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199356 | 0245 | 1 | F | Update of FR2 6.3.3.2 ON-OFF time mask | 16.2.0 |
| 2019-12 | RAN#86 | R5-199357 | 0244 | 1 | F | Update of FR2 6.3.1 minimum output power | 16.2.0 |
| 2019-12 | RAN#86 | R5-199358 | 0263 | 1 | F | CR to 38.521-2 on optimized search procedure for REFSENS | 16.2.0 |
| 2019-12 | RAN#86 | R5-199359 | 0264 | 1 | F | CR to 38.521-2 on optimized search procedure for RX Beam Peak Search | 16.2.0 |
| 2019-12 | RAN#86 | R5-199360 | 0254 | 1 | F | Updating incorrect note in test procedure | 16.2.0 |
| 2019-12 | RAN#86 | R5-199361 | 0256 | 1 | F | Spurious UL MIMO test case updates | 16.2.0 |
| 2019-12 | RAN#86 | R5-199373 | 0265 | 1 | F | Introduction of New TC 6.4A.2.3.1 In-band emissions for 2UL CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199374 | 0266 | 1 | F | Update to test case 6.3.3.4 PRACH time mask in FR2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199375 | 0257 | 1 | F | Ref Sens UL MIMO test case updates | 16.2.0 |
| 2019-12 | RAN#86 | R5-199376 | 0258 | 1 | F | Alignment of clause 3 to 5 with the core spec | 16.2.0 |
| 2019-12 | RAN#86 | R5-199461 | 0271 | 2 | F | Further updates to the SRS time mask for UL-MIMO test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199473 | 0282 | - | F | Update to UE maximum output power - Spherical coverage | 16.2.0 |
| 2019-12 | RAN#86 | R5-199483 | 0277 | 1 | F | Update of applicability for Spherical coverage and Beam Correspondence test cases | 16.2.0 |
| 2019-12 | RAN#86 | R5-199494 | 0281 | 1 | F | Add section 4.5 Applicability and test coverage rules | 16.2.0 |
| 2019-12 | RAN#86 | R5-199495 | 0246 | 1 | F | Update of FR2 6.3.4.2 absolute power tolerance | 16.2.0 |
| 2019-12 | RAN#86 | R5-199496 | 0270 | 1 | F | Further updates to the absolute power tolerance for CA test cases | 16.2.0 |
| 2019-12 | RAN#86 | R5-199504 | 0259 | 1 | F | Addition of test requirements and update of minimum conformance requirements and test configurations for SA FR2 6.2.2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199548 | 0268 | 1 | F | Updates to the beam correspondence TC | 16.2.0 |
| 2019-12 | RAN#86 | R5-199579 | 0279 | 1 | F | Update of quality of quiet zone validation procedure | 16.2.0 |
| 2019-12 | RAN#86 | R5-199586 | 0275 | 1 | F | Update on FR2 Spurious Test in 38.521-2 | 16.2.0 |
| 2020-03 | RAN#87 | R5-200319 | 0288 |  | F | CR to 38.521-2 on CDF/PDF Scaling Factor | 16.3.0 |
| 2020-03 | RAN#87 | R5-200320 | 0289 |  | F | CR to 38.521-2: Correction to TRP grid | 16.3.0 |
| 2020-03 | RAN#87 | R5-200368 | 0292 |  | F | Addition of new test case 6.3A.1.4 Minimum output power for 5UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200369 | 0293 |  | F | Addition of new test case 6.3A.1.5 Minimum output power for 6UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200372 | 0294 |  | F | Addition of new test case 6.3A.1.6 Minimum output power for 7UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200374 | 0295 |  | F | Addition of new test case 6.3A.1.7 Minimum output power for 8UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200375 | 0296 |  | F | Addition of new test case 6.4A.2.1.4 Error vector magnitude for 5UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200376 | 0297 |  | F | Addition of new test case 6.4A.2.1.5 Error vector magnitude for 6UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200377 | 0298 |  | F | Addition of new test case 6.4A.2.1.6 Error vector magnitude for 7UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200382 | 0300 |  | F | Addition of new test case 6.4A.2.1.7 Error vector magnitude for 8UL CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200383 | 0301 |  | F | Update of test cases for Error vector magnitude for CA in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200418 | 0302 |  | F | Update of Operating bands and Channel arrangement of SA FR2 R15 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200444 | 0303 |  | F | Clarification of measurement interval of frequency error in FR2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200557 | 0309 |  | F | Clarify absolute power tolerance for CA TP3 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200602 | 0312 |  | F | Updates to reference sensitivity test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200656 | 0317 |  | F | Correction of Editor's note of 6.2.2 and 6.3.2 of SA FR2 R15 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201248 | 0318 | 1 | F | Alignment of Table A.3.1-1 in 38.521-2 to core spec 38.101-2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200800 | 0319 |  | F | Update of Standalone FR2 A-MPR test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200894 | 0286 | 1 | F | Correction to TC 6.3.4.4 Aggregate power tolerance | 16.3.0 |
| 2020-03 | RAN#87 | R5-200910 | 0310 | 1 | F | Beam correspondence TC message contents clarifications | 16.3.0 |
| 2020-03 | RAN#87 | R5-200911 | 0285 | 1 | F | Update of Clause 4 in TS 38.521-2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200980 | 0284 | 1 | F | Correction of reference numbers in TS 38.521-2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200992 | 0291 | 1 | F | Updates of MU and TT in TS 38.521-2 for Rel-16 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201059 | 0305 | 1 | F | Update of rx beampeak search | 16.3.0 |
| 2020-03 | RAN#87 | R5-201060 | 0307 | 1 | F | Update of absolute power tolerance for test point 3 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201161 | 0313 | 1 | F | Updates to test case relative power tolerance 6.3.4.3 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201192 | 0283 | 1 | F | Updates of MU and TT in TS 38.521-2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-201244 | 0311 | 3 | F | Correction of the FR2 RMC slot patterns for MOP test cases | 16.3.0 |
| 2020-06 | RAN#88 | R5-201328 | 0321 | - | F | Add n261 to FR2 ACLR requirements | 16.4.0 |
| 2020-06 | RAN#88 | R5-201330 | 0323 | - | F | Update to UBF command implementation for Relative power sub tests | 16.4.0 |
| 2020-06 | RAN#88 | R5-201795 | 0325 | - | F | Introduction of New TC 6.4A.2.2.4 Carrier leakage for 5UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201796 | 0326 | - | F | Introduction of New TC 6.4A.2.2.5 Carrier leakage for 6UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201797 | 0327 | - | F | Introduction of New TC 6.4A.2.2.6 Carrier leakage for 7UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201811 | 0328 | - | F | Introduction of New TC 6.4A.2.2.7 Carrier leakage for 8UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201812 | 0329 | - | F | Introduction of New TC 6.4A.2.3.2 In-band emissions for 3UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201813 | 0330 | - | F | Introduction of New TC 6.4A.2.3.3 In-band emissions for 4UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201814 | 0331 | - | F | Introduction of New TC 6.4A.2.3.4 In-band emissions for 5UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201815 | 0332 | - | F | Introduction of New TC 6.4A.2.3.5 In-band emissions for 6UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201835 | 0333 | - | F | Correction of FR2 PUCCH EVM definition | 16.4.0 |
| 2020-06 | RAN#88 | R5-201849 | 0334 | - | F | Updating common uplink allocation for PC1 | 16.4.0 |
| 2020-06 | RAN#88 | R5-201850 | 0335 | - | F | Cleaning up references to common uplink configuration | 16.4.0 |
| 2020-06 | RAN#88 | R5-201851 | 0336 | - | F | Updating test requirements of 6.2.3 AMPR for NS\_201 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202045 | 0342 | - | F | Correction of test metric in minimum conformance requirements and some test style in 6.3.2 of SA FR2 R15 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202046 | 0343 | - | F | Correction of uplink configuration table number in minimum conformance requirements and test requirement table of 7.4 of SA FR2 R15 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202120 | 0346 | - | F | CR to 38.521-2 to correct Clenshaw-Curtis Weight Equations | 16.4.0 |
| 2020-06 | RAN#88 | R5-202122 | 0348 | - | F | CR to 38.521-2 to clarify the applicability of QoQZ validation | 16.4.0 |
| 2020-06 | RAN#88 | R5-202135 | 0354 | - | F | Update to 6 test cases 6.5A.2.1.x Spectrum Emission Mask for 3 to 8 UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202137 | 0356 | - | F | Update to 6 test cases 6.5A.2.2.x Adjacent channel leakage ratio for 3 to 8 UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202447 | 0367 | - | F | Editorial correction to the test requirement of in-band blocking | 16.4.0 |
| 2020-06 | RAN#88 | R5-202450 | 0368 | - | F | Correction of Spectrum Emission Mask CA test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202504 | 0372 | - | F | CR on EVM Window Centre Timing Definition in FR2 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202720 | 0345 | 1 | F | CR to 38.521-2 to correct Clenshaw-Curtis Weights at the Poles for CDF/CCDF | 16.4.0 |
| 2020-06 | RAN#88 | R5-202722 | 0364 | 1 | F | Additions to Initial Conditions and Messages for SRS time mask with UL MIMO | 16.4.0 |
| 2020-06 | RAN#88 | R5-202723 | 0337 | 1 | F | Aligning test procedure for Rx beam peak direction | 16.4.0 |
| 2020-06 | RAN#88 | R5-202724 | 0341 | 1 | F | Alignment of section 3 and 5 with core spec of SA FR2 R15 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202808 | 0365 | 1 | F | Receiver characteristics testing update to 38.521-2 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202824 | 0351 | 1 | F | Update to test case 6.5A.1.1 Occupied bandwidth for 2UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202825 | 0353 | 1 | F | Update to test case 6.5A.2.1.1 Spectrum Emission Mask for 2UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202826 | 0355 | 1 | F | Update to test case 6.5A.2.2.1 Adjacent channel leakage ratio for 2UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202827 | 0371 | 1 | F | Update to 6 test cases 6.5A.1.x Occupied bandwidth for 3 to 8 UL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202828 | 0338 | 1 | F | Updating SRS config table in test case 6.3D.3.4 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202885 | 0322 | 1 | F | Add NS 202 requirements to FR2 additional spurious emission test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-202893 | 0349 | 1 | F | Editorial correction of test case 6.5.1 Occupied bandwidth to align with core spec | 16.4.0 |
| 2020-06 | RAN#88 | R5-202894 | 0350 | 1 | F | Editorial correction of Tx test cases for Out of band emission to align with core spec | 16.4.0 |
| 2020-06 | RAN#88 | R5-202895 | 0357 | 1 | F | Clarification of disabling Tx diversity for FR2 UE for SA FR2 testing | 16.4.0 |
| 2020-06 | RAN#88 | R5-202896 | 0358 | 1 | F | Updates of Test Points of Tx CA test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202897 | 0360 | 1 | F | Correction on txDirectCurrentLocation in FR2 SA tests | 16.4.0 |
| 2020-06 | RAN#88 | R5-202898 | 0370 | 1 | F | Update on transmit modulation quality test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202899 | 0361 | 1 | F | Update to SA FR2 Receiver Spurious Emission Test Case | 16.4.0 |
| 2020-06 | RAN#88 | R5-202943 | 0363 | 1 | F | CR to 38.521-2: On the order of test steps for output power dynamics test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202968 | 0359 | 1 | F | Core spec alignment of k1 value for RF test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202990 | 0362 | 2 | F | Updates of FR2 MU and TT in TS 38.521-2 | 16.4.0 |
| 2020-06 | RAN#88 | R5-203117 | 0347 | 2 | F | CR to 38.521-2 to properly define Link and Meas Angles | 16.4.0 |
| 2020-09 | RAN#89 | R5-203292 | 0373 | - | F | Clarification of Interferer frequency selection in FR2 IBB test case 7.6.2 | 16.5.0 |
| 2020-09 | RAN#89 | R5-203875 | 0392 | - | F | Alignment of general sections with core spec of SA FR2 R15 | 16.5.0 |
| 2020-09 | RAN#89 | R5-203969 | 0394 | - | F | Updating beam correspondence capability | 16.5.0 |
| 2020-09 | RAN#89 | R5-204264 | 0412 | - | F | Editorial correction of ACLR CA test cases | 16.5.0 |
| 2020-09 | RAN#89 | R5-204265 | 0413 | - | F | Editorial correction of Annex C.3 Connection | 16.5.0 |
| 2020-09 | RAN#89 | R5-204266 | 0414 | - | F | Update of FR2 OBW test case | 16.5.0 |
| 2020-09 | RAN#89 | R5-204713 | 0382 | 1 | F | Correction to test configuration for Carrier leakage for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204714 | 0383 | 1 | F | Correction to TC 6.4A.2.3.1 In-band emissions for 2UL CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204715 | 0384 | 1 | F | Correction to test cases 6.4A.2.3.x In-band emissions for 3 to 6 UL CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204716 | 0385 | 1 | F | Introduction of New TC 6.4A.2.3.6 In-band emissions for 7UL CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204717 | 0386 | 1 | F | Introduction of New TC 6.4A.2.3.7 In-band emissions for 8UL CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204763 | 0393 | 1 | F | Miscellaneous corrections due to core spec alignment | 16.5.0 |
| 2020-09 | RAN#89 | R5-204764 | 0415 | 1 | F | Update of Tx signal quality test cases | 16.5.0 |
| 2020-09 | RAN#89 | R5-204765 | 0395 | 1 | F | Addition of UL power setting for Rx test cases | 16.5.0 |
| 2020-09 | RAN#89 | R5-204856 | 0403 | 1 | F | CR to update MU and TT in 38.521-2 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204857 | 0380 | 1 | F | Beam correspondence - SRS configuration corrections in section 6.6.1 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204858 | 0397 | 1 | F | CR to 38.521-2 to update Absolute Power Tolerance for CA on the order of test steps | 16.5.0 |
| 2020-09 | RAN#89 | R5-204859 | 0401 | 1 | F | CR to TS 38.521-2: Correction to MB relaxation minimum requirements | 16.5.0 |
| 2020-09 | RAN#89 | R5-204860 | 0406 | 1 | F | CR to 38.521-2 to adjust the test step sequences | 16.5.0 |
| 2020-09 | RAN#89 | R5-204861 | 0407 | 1 | F | CR to 38.521-2 to allow vendor declarations related to beam peak searches | 16.5.0 |
| 2020-09 | RAN#89 | R5-204862 | 0408 | 1 | F | CR to 38.521-2 on QoQZ Verification Clarification | 16.5.0 |
| 2020-09 | RAN#89 | R5-204863 | 0411 | 1 | F | FR2 Minimum output power MU updates | 16.5.0 |
| 2020-09 | RAN#89 | R5-204864 | 0417 | 1 | F | FR2 EIRP OFF power MU updates | 16.5.0 |
| 2020-09 | RAN#89 | R5-204865 | 0379 | 1 | F | Beam correspondence - SRS configuration corrections in annex K.1.1 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204914 | 0388 | 1 | F | Updates to test case 6.3.4.3, relative power tolerance | 16.5.0 |
| 2020-09 | RAN#89 | R5-204915 | 0398 | 1 | F | CR to 38.521-2 to update Transmit OFF Power | 16.5.0 |
| 2020-09 | RAN#89 | R5-204916 | 0399 | 1 | F | CR to TS 38.521-2: Correction to time mask requirements | 16.5.0 |
| 2020-09 | RAN#89 | R5-204917 | 0402 | 1 | F | Clean up complete status for FR2 SA test cases | 16.5.0 |
| 2020-09 | RAN#89 | R5-204918 | 0404 | 1 | F | Update to UE maximum output power for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204919 | 0410 | 1 | F | FR2 Minimum output power measurement period definition | 16.5.0 |
| 2020-09 | RAN#89 | R5-204920 | 0389 | 1 | F | FR2 RefSens and EIS spherical PC3 MBR table update | 16.5.0 |
| 2020-09 | RAN#89 | R5-204921 | 0396 | 1 | F | Addition of modified MPR behaviour | 16.5.0 |
| 2020-09 | RAN#89 | R5-204922 | 0400 | 1 | F | CR to TS 38.521-2: Annex F EIRP OFF Power | 16.5.0 |
| 2020-09 | RAN#89 | R5-204923 | 0409 | 1 | F | CR to TS 38.521-2 on DUT alignment options | 16.5.0 |
| 2020-09 | RAN#89 | RP-201671 | 0418 | - | F | Adding FR2 PDCCH Aggregation Level in Annex C.3 | 16.5.0 |
| 2020-12 | RAN#90 | R5-205259 | 0420 | - | F | Addition of new test case 6.4D.3 Time alignment error for UL MIMO in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205260 | 0421 | - | F | Addition of new test case 6.5D.1 Occupied bandwidth for UL MIMO in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205496 | 0422 | - | F | Alignment of general sections with core spec | 16.6.0 |
| 2020-12 | RAN#90 | R5-205497 | 0423 | - | F | Correction of minimum conformance requirements for 6.2.2 MPR | 16.6.0 |
| 2020-12 | RAN#90 | R5-205536 | 0427 | - | F | Aligning tested subframe numbers with defined RMC in test case 6.3.4.3 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205573 | 0428 | - | F | Adding a new note in test configuration table for ACLR and SEM test case | 16.6.0 |
| 2020-12 | RAN#90 | R5-205711 | 0431 | - | F | FR2 EIS editor's note clean up | 16.6.0 |
| 2020-12 | RAN#90 | R5-205811 | 0433 | - | F | Correction to Carrier leakage for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-205812 | 0434 | - | F | Correction to In-band emissions for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-205854 | 0438 | - | F | Correction of transmission gap for relative power tolerance TC 6.3.4.3 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206009 | 0439 | - | F | Update of in-band emission and carrier leakage test cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-206206 | 0448 | - | F | Update of occupied bandwidth test case | 16.6.0 |
| 2020-12 | RAN#90 | R5-206210 | 0449 | - | F | Correction of Annex F for absolute power tolerance for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206644 | 0437 | 1 | F | Correction of MBW for output power dynamics TCs 6.3.x and ACLR TC 6.5.2.3 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206645 | 0440 | 1 | F | Correction of 6.2.3.3.1 for UE additional maximum power reduction | 16.6.0 |
| 2020-12 | RAN#90 | R5-206646 | 0419 | 1 | F | Forgotten change extending Table range to N.2-7 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206647 | 0430 | 1 | F | CR to update DMRS position in UL RMC for FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206821 | 0442 | 1 | F | CR to 38.521-2 on ETC Testing | 16.6.0 |
| 2020-12 | RAN#90 | R5-206822 | 0445 | 1 | F | Minimum output power updates | 16.6.0 |
| 2020-12 | RAN#90 | R5-206823 | 0446 | 1 | F | FR2 time masks updates | 16.6.0 |
| 2020-12 | RAN#90 | R5-206824 | 0443 | 1 | F | Update FR2 TRx MU and TT in 38.521-2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206825 | 0444 | 1 | F | Minimum output power measurement uncertainties and test tolerances | 16.6.0 |
| 2020-12 | RAN#90 | R5-206826 | 0447 | 1 | F | FR2 Time masks updates | 16.6.0 |
| 2020-12 | RAN#90 | R5-206865 | 0429 | 1 | F | Update on Test points of FR2 Transmit OFF power for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206866 | 0432 | 1 | F | Adding NS202 and NS203 to MOP and Spurious | 16.6.0 |
| 2020-12 | RAN#90 | R5-206867 | 0435 | 1 | F | Addition of 6.5D.2.1 Spectrum Emission Mask for UL MIMO in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206868 | 0436 | 1 | F | Addition of 6.5D.2.2 Adjacent channel leakage ratio for UL MIMO in FR2 | 16.6.0 |
| 2021-03 | RAN#91 | R5-210489 | 0457 | - | F | Correction of test purpose for 6.3.2 Transmit OFF power | 16.7.0 |
| 2021-03 | RAN#91 | R5-210490 | 0458 | - | F | Addition of new test case 6.3D.2 Transmit OFF power for UL MIMO | 16.7.0 |
| 2021-03 | RAN#91 | R5-210491 | 0459 | - | F | Correction of test applicability and test description for 7.4 Maximum input level | 16.7.0 |
| 2021-03 | RAN#91 | R5-210492 | 0460 | - | F | Addition of new test cases for 7.4A Maximum input level for CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-210494 | 0462 | - | F | Removal of brackets for MU of EIS spherical coverage | 16.7.0 |
| 2021-03 | RAN#91 | R5-210495 | 0463 | - | F | Correction of Annex P for Modified MPR behaviour | 16.7.0 |
| 2021-03 | RAN#91 | R5-210496 | 0464 | - | F | Correction of definition for EIS | 16.7.0 |
| 2021-03 | RAN#91 | R5-210565 | 0467 | - | F | Update of waveform to be used during Rx peam peak search in Annex K.1.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210724 | 0468 | - | F | Omitting of FR2 Rx cases with UL-MIMO on TDD bands | 16.7.0 |
| 2021-03 | RAN#91 | R5-210729 | 0471 | - | F | Removing test condition of extreme voltage | 16.7.0 |
| 2021-03 | RAN#91 | R5-210731 | 0473 | - | F | Adding definition of FR2a, FR2b and FR2c in general section | 16.7.0 |
| 2021-03 | RAN#91 | R5-210732 | 0474 | - | F | Cleaning up of Annex K | 16.7.0 |
| 2021-03 | RAN#91 | R5-211094 | 0481 | - | F | Correction to assumption of aggregated channel bandwidth in TC 6.5A.2.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211097 | 0484 | - | F | Definition of relaxation value of spurious emissions UE co-existence in TC 6.5.3.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211110 | 0486 | - | F | Corrections to subclauses in 38.521-2 with appropriate subclause level and heading styles | 16.7.0 |
| 2021-03 | RAN#91 | R5-211126 | 0488 | - | F | Update of 5.5A.2 for corrections to configurations for intra-band non-contiguous CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-211683 | 0456 | 1 | F | Editorial corrections in Occupied bandwidth test procedure | 16.7.0 |
| 2021-03 | RAN#91 | R5-211684 | 0465 | 1 | F | FR2 UL CA Frequency error test cases update | 16.7.0 |
| 2021-03 | RAN#91 | R5-211685 | 0469 | 1 | F | Addition of Inner\_partial allocation in general section and a few test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211686 | 0470 | 1 | F | Correction of parameter configuration for open loop power control | 16.7.0 |
| 2021-03 | RAN#91 | R5-211688 | 0476 | 1 | F | Addition of new test case 6.2A.1.1.4 UE maximum output power - EIRP and TRP for 5UL CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-211689 | 0477 | 1 | F | Addition of new test case 6.2A.1.1.5 UE maximum output power - EIRP and TRP for 6UL CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-211690 | 0478 | 1 | F | Addition of new test case 6.2A.1.1.6 UE maximum output power - EIRP and TRP for 7UL CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-211691 | 0479 | 1 | F | Addition of new test case 6.2A.1.1.7 UE maximum output power - EIRP and TRP for 8UL CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-211692 | 0487 | 1 | F | Corrections to reference figures for transmission bandwidth configuration in FR2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211693 | 0493 | 1 | F | Update of Annex F for test case 7.3.4 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211863 | 0466 | 1 | F | FR2 MPR, ACLR and SEM test cases update as per TP analysis update | 16.7.0 |
| 2021-03 | RAN#91 | R5-211864 | 0472 | 1 | F | Cleaning up of FR2 test specification | 16.7.0 |
| 2021-03 | RAN#91 | R5-211865 | 0475 | 1 | F | Update of TX Test Cases for UL MIMO in FR2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211866 | 0482 | 1 | F | Correction to definition of power control window size in FR2 relative power tolerance in TC 6.3.4.3 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211867 | 0491 | 1 | F | FR2 Tx additional spurious emission test case updates | 16.7.0 |
| 2021-03 | RAN#91 | R5-211868 | 0453 | 1 | F | ACS FR2 test case update | 16.7.0 |
| 2021-03 | RAN#91 | R5-211869 | 0454 | 1 | F | IBB FR2 test case update | 16.7.0 |
| 2021-03 | RAN#91 | R5-211919 | 0451 | 1 | F | Introduction of FR2 DL 256QAM | 16.7.0 |
| 2021-03 | RAN#91 | R5-211921 | 0480 | 1 | F | Correction to ACLR relaxation value in TC 6.5.2.3 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211922 | 0455 | 1 | F | MU and TT definition for REFSENS FR2 CA test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211923 | 0485 | 1 | F | Update FR2 MU and TT in 38.521-2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211924 | 0490 | 1 | F | CR to 38.521-2 on PC1 Measurement Grid MUs | 16.7.0 |
| 2021-03 | RAN#91 | R5-211925 | 0492 | 1 | F | Update of ETC MTSU | 16.7.0 |
| 2021-06 | RAN#92 | R5-212225 | 0496 | - | F | Configured transmitter power for UL power boosting | 16.8.0 |
| 2021-06 | RAN#92 | R5-212226 | 0497 | - | F | In-band emissions for UL power boosting | 16.8.0 |
| 2021-06 | RAN#92 | R5-212227 | 0498 | - | F | Output power dynamics for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-212229 | 0500 | - | F | Occupied bandwidth for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-212230 | 0501 | - | F | Spectrum emission mask for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-212231 | 0502 | - | F | Adjacent channel leakage ratio for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-212233 | 0504 | - | F | Spurious emission band UE co-existence for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-212341 | 0505 | - | F | FR2 MPR - Test configuration correction | 16.8.0 |
| 2021-06 | RAN#92 | R5-212342 | 0506 | - | F | Removal of requirement for EIRP measurement in the transmitter spurious emission test cases | 16.8.0 |
| 2021-06 | RAN#92 | R5-212343 | 0507 | - | F | Test limits update for MOP spherical coverage test case 6.2.1.2 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212351 | 0508 | - | F | ACS and IBB - FR2 MU definition in 38.521-2 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212523 | 0510 | - | F | Update of the test configuration for 6.5D.1 Occupied Bandwidth for UL MIMO test case | 16.8.0 |
| 2021-06 | RAN#92 | R5-212814 | 0515 | - | F | Updated CA NS 201 202 203 for additional spurious emission | 16.8.0 |
| 2021-06 | RAN#92 | R5-212815 | 0516 | - | F | Align CA spurious emission UE coex requirements with core spec | 16.8.0 |
| 2021-06 | RAN#92 | R5-212829 | 0519 | - | F | Correction of 7.6 for test of blocking characteristics | 16.8.0 |
| 2021-06 | RAN#92 | R5-212858 | 0521 | - | F | Removal of brackets for the Configured transmitted power requirements | 16.8.0 |
| 2021-06 | RAN#92 | R5-212859 | 0522 | - | F | Removal of test cases in 6.3A.2 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212861 | 0524 | - | F | Correction of definition for bit 1 of modifiedMPRbehavior field of n28 | 16.8.0 |
| 2021-06 | RAN#92 | R5-212975 | 0531 | - | F | Updating H.2.2 for NR SA FR2 testing | 16.8.0 |
| 2021-06 | RAN#92 | R5-213309 | 0545 | - | F | Update of output power dynamic test cases | 16.8.0 |
| 2021-06 | RAN#92 | R5-213319 | 0546 | - | F | Update of Spectrum Emission Mask for UL MIMO test case | 16.8.0 |
| 2021-06 | RAN#92 | R5-213325 | 0549 | - | F | Editorial Correction to FR2 frequency sub-group definitions | 16.8.0 |
| 2021-06 | RAN#92 | R5-213329 | 0552 | - | F | EIS Requirements update for Rel.16 Inter-band CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-213333 | 0555 | - | F | Align MBR requirements table with current core spec | 16.8.0 |
| 2021-06 | RAN#92 | R5-213836 | 0511 | 1 | F | Correction of power control in 38.521-2 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213837 | 0540 | 1 | F | FR2 Carrier Aggregation Minimum Output power updates | 16.8.0 |
| 2021-06 | RAN#92 | R5-213838 | 0548 | 1 | F | Implementation of PCC Prio test procedure updates in UL-CA tests | 16.8.0 |
| 2021-06 | RAN#92 | R5-213839 | 0535 | 1 | F | CR to 38.521-2 on Optional 4x2 PC3 Antenna Array Configuration | 16.8.0 |
| 2021-06 | RAN#92 | R5-213840 | 0536 | 1 | F | CR to 38.521-2 on larger quiet zone with grey-box approach | 16.8.0 |
| 2021-06 | RAN#92 | R5-213841 | 0537 | 1 | F | CR to 38.521-2 to clarify BP Searches for NTC and ETC | 16.8.0 |
| 2021-06 | RAN#92 | R5-213842 | 0539 | 1 | F | Measurement uncertainties and test tolerances for FR2 Relative and aggregate power tolerance | 16.8.0 |
| 2021-06 | RAN#92 | R5-213895 | 0509 | 1 | F | Update of the test configuration for 6.4A.2.1 EVM CA test cases | 16.8.0 |
| 2021-06 | RAN#92 | R5-213896 | 0514 | 1 | F | Update to FR2 test case title in clause 6 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213897 | 0518 | 1 | F | Correction of 6.2.3 for mapping of network signalling label | 16.8.0 |
| 2021-06 | RAN#92 | R5-213898 | 0523 | 1 | F | Correction of Test applicability of 6.4.2.5 | 16.8.0 |
| 2021-06 | RAN#92 | R5-213899 | 0526 | 1 | F | Correction of subclause titles with appropriate styles | 16.8.0 |
| 2021-06 | RAN#92 | R5-213900 | 0529 | 1 | F | Editorial correction of AMPR and Additional spurious emission | 16.8.0 |
| 2021-06 | RAN#92 | R5-213901 | 0530 | 1 | F | Clean up of CA sub-titles | 16.8.0 |
| 2021-06 | RAN#92 | R5-213902 | 0541 | 1 | F | Clarifications on UE beamlock function applicability | 16.8.0 |
| 2021-06 | RAN#92 | R5-213903 | 0538 | 1 | F | CR to 38.521-2 on Temperature Tolerance for FR2 Testing | 16.8.0 |
| 2021-06 | RAN#92 | R5-213904 | 0542 | 1 | F | Annex C: Clarifications to downlink signal levels | 16.8.0 |
| 2021-06 | RAN#92 | R5-213984 | 0550 | 1 | F | Add n259 definition in common section | 16.8.0 |
| 2021-06 | RAN#92 | R5-214011 | 0495 | 1 | F | Introduction of FR2 DL 256QAM to Maximum input level for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-214028 | 0503 | 1 | F | Spurious emissions for CA | 16.8.0 |
| 2021-06 | RAN#92 | R5-214029 | 0551 | 1 | F | Update with Rel16 Beam Correspondence requirements | 16.8.0 |
| 2021-06 | RAN#92 | R5-214048 | 0512 | 1 | F | Correction of ON OFF time mask in 38.521-2 | 16.8.0 |
| 2021-06 | RAN#92 | R5-214049 | 0525 | 1 | F | Removal of for further study notes about ETC testing | 16.8.0 |
| 2021-06 | RAN#92 | R5-214050 | 0554 | 1 | F | Addition of missing clauses for SA FR2 UL-CA scenarios | 16.8.0 |
| 2021-06 | RAN#92 | R5-214051 | 0534 | 1 | F | Measurement Uncertainties updates for FR2 Extreme Testing Conditions | 16.8.0 |
| 2021-06 | RAN#92 | R5-214078 | 0517 | 1 | F | Updated spurious emission CA test configuration table | 16.8.0 |
| 2021-06 | RAN#92 | R5-214104 | 0499 | 1 | F | Transmit signal quality for CA | 16.8.0 |
| 2021-09 | RAN#93 | R5-214605 | 0572 | - | F | Removal of empty cells in the test configuration table | 16.9.0 |
| 2021-09 | RAN#93 | R5-214606 | 0573 | - | F | Removal of brackets from the Minimum Conformance Requirements of Reference sensitivity power level for Intra-band non-contiguous CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-214608 | 0575 | - | F | Move the definition of cumulative aggregated channel bandwidth to the Definitions section | 16.9.0 |
| 2021-09 | RAN#93 | R5-214910 | 0582 | - | F | Editorial correction to Reference sensitivity power level for Inter-band CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-214914 | 0586 | - | F | Transmit ON/OFF time mask test configuration for non-contiguous CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-214915 | 0587 | - | F | Frequency error for non-contiguous CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-215056 | 0590 | - | F | Update to time mask for FR2 UL-MIMO | 16.9.0 |
| 2021-09 | RAN#93 | R5-215329 | 0598 | - | F | Correction to MU and TT for spurious emission band UE co-existence | 16.9.0 |
| 2021-09 | RAN#93 | R5-215473 | 0605 | - | F | Clarification of PCC for FR2 DL CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-215474 | 0606 | - | F | Correction of common UL configuration | 16.9.0 |
| 2021-09 | RAN#93 | R5-215517 | 0609 | - | F | Minor correction on UL additional reference channels parameters for TDD 60kHz SCS | 16.9.0 |
| 2021-09 | RAN#93 | R5-215583 | 0618 | - | F | MTSU and TT mapping related to Max Device Size | 16.9.0 |
| 2021-09 | RAN#93 | R5-215584 | 0619 | - | F | MTSU and TT mapping related to Max Device Size | 16.9.0 |
| 2021-09 | RAN#93 | R5-215585 | 0620 | - | F | MTSU and TT mapping related to Max Device Size | 16.9.0 |
| 2021-09 | RAN#93 | R5-215618 | 0622 | - | F | EIS spherical coverage for inter-band CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-215636 | 0628 | - | F | Updates to CSI-RS based beam correspondence minimum requirements | 16.9.0 |
| 2021-09 | RAN#93 | R5-215637 | 0629 | - | F | Updates to SSB based beam correspondence minimum requirements | 16.9.0 |
| 2021-09 | RAN#93 | R5-215641 | 0630 | - | F | Text correction to section clarifying leverage from NSA test coverage | 16.9.0 |
| 2021-09 | RAN#93 | R5-215830 | 0612 | 1 | F | FR2 SA UL MIMO measurement uncertainties and test tolerances updates | 16.9.0 |
| 2021-09 | RAN#93 | R5-215831 | 0614 | 1 | F | Editorial correction for Receiver Spurious Emissions Measurement Uncertainty | 16.9.0 |
| 2021-09 | RAN#93 | R5-215848 | 0558 | 1 | F | Introduction of new clause 6.3A.4.4 and Minimum conformance requirements | 16.9.0 |
| 2021-09 | RAN#93 | R5-215849 | 0565 | 1 | F | Introduction of new TC 6.3A.4.4.1 Aggregate power tolerance for CA (2UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215850 | 0566 | 1 | F | Introduction of new TC 6.3A.4.4.2 Aggregate power tolerance for CA (3UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215851 | 0567 | 1 | F | Introduction of new TC 6.3A.4.4.3 Aggregate power tolerance for CA (4UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215852 | 0568 | 1 | F | Introduction of new TC 6.3A.4.4.4 Aggregate power tolerance for CA (5UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215853 | 0569 | 1 | F | Introduction of new TC 6.3A.4.4.5 Aggregate power tolerance for CA (6UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215854 | 0570 | 1 | F | Introduction of new TC 6.3A.4.4.6 Aggregate power tolerance for CA (7UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215855 | 0571 | 1 | F | Introduction of new TC 6.3A.4.4.7 Aggregate power tolerance for CA (8UL CA) | 16.9.0 |
| 2021-09 | RAN#93 | R5-215856 | 0580 | 1 | F | Addition of new test case 6.4D.1 Frequency error for UL MIMO in FR2 | 16.9.0 |
| 2021-09 | RAN#93 | R5-215857 | 0581 | 1 | F | Update of test case 6.4D.3 Time alignment error for UL MIMO in FR2 | 16.9.0 |
| 2021-09 | RAN#93 | R5-215858 | 0591 | 1 | F | Cleaning up the specification skeleton | 16.9.0 |
| 2021-09 | RAN#93 | R5-215859 | 0593 | 1 | F | Editorial corrections for various test cases | 16.9.0 |
| 2021-09 | RAN#93 | R5-215860 | 0595 | 1 | F | Correction of FR2 Carrier Leakage Test Case | 16.9.0 |
| 2021-09 | RAN#93 | R5-215861 | 0599 | 1 | F | Editors note correction to reference sensitivity for CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-215862 | 0589 | 1 | F | Update of FR2 UL RMCs | 16.9.0 |
| 2021-09 | RAN#93 | R5-215925 | 0603 | 1 | F | Correct the abbreviations for network signalling value in 38.521-2 | 16.9.0 |
| 2021-09 | RAN#93 | R5-215975 | 0588 | 1 | F | Transmit modulation quality for non-contiguous CA | 16.9.0 |
| 2021-09 | RAN#93 | R5-215976 | 0576 | 1 | F | Update Minimum conformance requirement clause 7.4A.0 for Rel-16 Enhancement | 16.9.0 |
| 2021-09 | RAN#93 | R5-215977 | 0577 | 1 | F | Addition of clause 7.5A.0 minimum conformance requirement for Rel-16 Enhancement WP | 16.9.0 |
| 2021-09 | RAN#93 | R5-215978 | 0578 | 1 | F | Addition of clause 7.6A.2.0 minimum conformance requirement for Rel-16 Enhancement WP | 16.9.0 |
| 2021-09 | RAN#93 | R5-215979 | 0623 | 1 | F | DL CA BW Enhancement and CA REFSENS | 16.9.0 |
| 2021-09 | RAN#93 | R5-215980 | 0627 | 1 | F | Common clause updates to cover Rel.16 FR2 changes | 16.9.0 |
| 2021-09 | RAN#93 | R5-216036 | 0611 | 1 | F | FR2 SA UL MIMO Out-of-band emissions initial conditions updates | 16.9.0 |
| 2021-09 | RAN#93 | R5-216037 | 0613 | 1 | F | FR2 SA UL MIMO Maximum Power Reduction update | 16.9.0 |
| 2021-09 | RAN#93 | R5-216063 | 0602 | 1 | F | Update of 5.5A.1 for intra-band contiguous CA configuration table | 16.9.0 |
| 2021-09 | RAN#93 | R5-216081 | 0626 | 1 | F | Updates to Rel.16 enhanced Beam Correspondence test | 16.9.0 |
| 2021-09 | RAN#93 | R5-216087 | 0556 | 1 | F | Update to FR2 minimum output power test case | 16.9.0 |
| 2021-09 | RAN#93 | R5-216088 | 0557 | 1 | F | Update to FR2 ACLR test case | 16.9.0 |
| 2021-09 | RAN#93 | R5-216089 | 0592 | 1 | F | Add missing LO retrieval step in ULCA carrier leakage test procedure | 16.9.0 |
| 2021-09 | RAN#93 | R5-216090 | 0594 | 1 | F | FR2 Spur emissions test config table updates and editor notes clean up | 16.9.0 |
| 2021-09 | RAN#93 | R5-216091 | 0596 | 1 | F | Correction of power control in 38.521-2 | 16.9.0 |
| 2021-09 | RAN#93 | R5-216092 | 0625 | 1 | F | 38.521-2 CR FR2 ETC MU & TT updates | 16.9.0 |
| 2021-09 | RAN#93 | R5-216111 | 0621 | 1 | F | UE maximum output power for UL-MIMO | 16.9.0 |
| 2021-12 | RAN#94 | R5-216546 | 0631 | - | F | Addition of test configuration for FR2 DL 256QAM to Maximum input level | 16.10.0 |
| 2021-12 | RAN#94 | R5-217092 | 0636 | - | F | Update Rx beam peak direction search | 16.10.0 |
| 2021-12 | RAN#94 | R5-217093 | 0637 | - | F | Update of Reference Sensitivity Test Cases for CA | 16.10.0 |
| 2021-12 | RAN#94 | R5-217113 | 0638 | - | F | FR2 Refsens correction for power class 2 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217114 | 0639 | - | F | FR2 EIS spherical coverage correction for power class 2 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217248 | 0645 | - | F | Correction of note for BEAM\_SELECT\_WAIT\_TIME | 16.10.0 |
| 2021-12 | RAN#94 | R5-217249 | 0646 | - | F | Correction of subclause style, number and position | 16.10.0 |
| 2021-12 | RAN#94 | R5-217250 | 0647 | - | F | Correction of Table 6.2.2.4.1-9 for Test Frequency | 16.10.0 |
| 2021-12 | RAN#94 | R5-217331 | 0651 | - | F | Correction to test requirements of 6.2D.2 MPR for UL-MIMO | 16.10.0 |
| 2021-12 | RAN#94 | R5-217333 | 0653 | - | F | Removing 6.3D.3.4.5 SRS time mask for MIMO | 16.10.0 |
| 2021-12 | RAN#94 | R5-217341 | 0654 | - | F | Correction of 3.2 and 3.3 for symbols and abbreviations | 16.10.0 |
| 2021-12 | RAN#94 | R5-217419 | 0658 | - | F | Correction of test configuration table in 6.3.4.2 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217420 | 0659 | - | F | Correction of aggregate power tolerance | 16.10.0 |
| 2021-12 | RAN#94 | R5-217421 | 0660 | - | F | Correction of core requirement of aggregate power tolerance | 16.10.0 |
| 2021-12 | RAN#94 | R5-217614 | 0665 | - | F | Update to FR2 Tx test cases for n260 | 16.10.0 |
| 2021-12 | RAN#94 | R5-217708 | 0671 | - | F | FR2 Extreme Temperature Conditions applicability for ACLR | 16.10.0 |
| 2021-12 | RAN#94 | R5-217709 | 0672 | - | F | Minimum Output Power Editor notes review | 16.10.0 |
| 2021-12 | RAN#94 | R5-217710 | 0673 | - | F | 38.521-2 FR2 Extreme Temperature Conditions applicability for UL-MIMO | 16.10.0 |
| 2021-12 | RAN#94 | R5-218234 | 0644 | 1 | F | Correction of exception of message contents for DFT-s-OFDM modulation | 16.10.0 |
| 2021-12 | RAN#94 | R5-218235 | 0650 | 1 | F | Global correction of test cases except those having impact on ETSI EN 301 908 25 | 16.10.0 |
| 2021-12 | RAN#94 | R5-218236 | 0652 | 1 | F | Correction to testability statement of 6.5.2.3 ACLR | 16.10.0 |
| 2021-12 | RAN#94 | R5-218237 | 0656 | 1 | F | Correction of 6.2.4 for configured transmitted power | 16.10.0 |
| 2021-12 | RAN#94 | R5-218238 | 0664 | 1 | F | Correction to FR2 Rx test cases | 16.10.0 |
| 2021-12 | RAN#94 | R5-218239 | 0669 | 1 | F | Clarification on reference sensitivity power level | 16.10.0 |
| 2021-12 | RAN#94 | R5-218240 | 0635 | 1 | F | Handling of fallbacks for FR2 CA | 16.10.0 |
| 2021-12 | RAN#94 | R5-218241 | 0655 | 1 | F | Correction of 4.1 and 4.2 for minimum requirements and test requirements | 16.10.0 |
| 2021-12 | RAN#94 | R5-218366 | 0678 | 1 | F | Updates to CSI-RS based beam correspondence minimum requirements | 16.10.0 |
| 2021-12 | RAN#94 | R5-218367 | 0679 | 1 | F | Updates to SSB based beam correspondence minimum requirements | 16.10.0 |
| 2021-12 | RAN#94 | R5-218368 | 0633 | 1 | F | MTSUs for Rel-16 RF Enhancement for FR2 | 16.10.0 |
| 2021-12 | RAN#94 | R5-218369 | 0634 | 1 | F | TTs for Rel-16 RF Enhancement for FR2 | 16.10.0 |
| 2021-12 | RAN#94 | R5-218401 | 0662 | 1 | F | Update of transmit modulation quality test cases | 16.10.0 |
| 2021-12 | RAN#94 | R5-218407 | 0670 | 1 | F | 38.521-2 Beam correspondence Measurement Uncertainties | 16.10.0 |
| 2021-12 | RAN#94 | R5-218425 | 0640 | 1 | F | Spur emissions coex test config update and editor notes clean up | 16.10.0 |
| 2021-12 | RAN#94 | R5-218426 | 0641 | 1 | F | Clarify DL CC config for UL CA test | 16.10.0 |
| 2021-12 | RAN#94 | R5-218427 | 0642 | 1 | F | Update Minimum Output Power requirement | 16.10.0 |
| 2021-12 | RAN#94 | R5-218428 | 0643 | 1 | F | Alignment of the description for initial set up of downlink and uplink signals | 16.10.0 |
| 2021-12 | RAN#94 | R5-218429 | 0648 | 1 | F | Correction of test cases having impact on ETSI EN 301 908 25 | 16.10.0 |
| 2021-12 | RAN#94 | R5-218430 | 0649 | 1 | F | Correction of test configuration for CA test cases | 16.10.0 |
| 2021-12 | RAN#94 | R5-218431 | 0667 | 1 | F | Update of test case 6.2.3 A-MPR | 16.10.0 |
| 2021-12 | RAN#94 | R5-218432 | 0668 | 1 | F | Update of test case 6.5.3.3 A-Spurious | 16.10.0 |
| 2021-12 | RAN#94 | R5-218474 | 0676 | 1 | F | Enhanced Beam Correspondence test updates | 16.10.0 |
| 2021-12 | RAN#94 | R5-218475 | 0677 | 1 | F | Common clause updates to cover Rel.16 FR2 changes | 16.10.0 |
| 2021-12 | RAN#94 | R5-218484 | 0675 | 1 | F | Rel.15 Beam Correspondence Updates and clarifications | 16.10.0 |
| 2022-03 | RAN#95 | R5-220256 | 0684 | - | F | FR2 Frequency error tests - unify requirements per polarization | 16.11.0 |
| 2022-03 | RAN#95 | R5-220257 | 0685 | - | F | Test limit correction in FR2 MPR test case | 16.11.0 |
| 2022-03 | RAN#95 | R5-220258 | 0686 | - | F | RX beam peak direction search procedure update in case of intra-band DL CA | 16.11.0 |
| 2022-03 | RAN#95 | R5-220259 | 0687 | - | F | Updated reference to FR2 connection diagram in tests using modulated interferer | 16.11.0 |
| 2022-03 | RAN#95 | R5-220274 | 0688 | - | F | Clarifications on 5G NR connectivity options for RF FR2 | 16.11.0 |
| 2022-03 | RAN#95 | R5-220791 | 0693 | - | F | Update to 6.2D.1 for ULFPTx | 16.11.0 |
| 2022-03 | RAN#95 | R5-220792 | 0694 | - | F | Update to 6.2D.2 for ULFPTx | 16.11.0 |
| 2022-03 | RAN#95 | R5-220793 | 0695 | - | F | Update to 6.2D.4 for ULFPTx | 16.11.0 |
| 2022-03 | RAN#95 | R5-220908 | 0698 | - | F | Correction to test procedure of 6.4A.1.1 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221060 | 0699 | - | F | Update of 6.2A.1 for UE maximum output power | 16.11.0 |
| 2022-03 | RAN#95 | R5-221061 | 0700 | - | F | Update of 6.2.3 for UE maximum output power with additional requirements | 16.11.0 |
| 2022-03 | RAN#95 | R5-221063 | 0702 | - | F | Update of 6.2A.4 for configured transmitted power for CA | 16.11.0 |
| 2022-03 | RAN#95 | R5-221111 | 0704 | - | F | Editorial correction to titles of FR2 test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221112 | 0705 | - | F | Update to test applicability to FR2 test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221269 | 0706 | - | F | Correction of ON OFF time mask test cases for FR2 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221334 | 0709 | - | F | Removing TP analysis editor note for FR2 Tx spur emission UL MIMO test case | 16.11.0 |
| 2022-03 | RAN#95 | R5-221338 | 0710 | - | F | Update to Clause 7.6 Blocking Characteristics | 16.11.0 |
| 2022-03 | RAN#95 | R5-221341 | 0712 | - | F | Update to Intra-band non-contiguous CA | 16.11.0 |
| 2022-03 | RAN#95 | R5-221354 | 0716 | - | F | Update reference to intra-band non-contiguous UL-CA FR2 RF tests in Annex | 16.11.0 |
| 2022-03 | RAN#95 | R5-221355 | 0717 | - | F | Editorial correction in intra-band non-contiguous configurations table | 16.11.0 |
| 2022-03 | RAN#95 | R5-221356 | 0718 | - | F | Add correct test case structure to Beam Correspondence CA test case | 16.11.0 |
| 2022-03 | RAN#95 | R5-221357 | 0719 | - | F | Introduce EIS test cases to incorporate Rel.16 inter-band CA | 16.11.0 |
| 2022-03 | RAN#95 | R5-221657 | 0707 | 2 | F | 38.521-2 Beam correspondence Measurement Uncertainties and test tolerances | 16.11.0 |
| 2022-03 | RAN#95 | R5-221685 | 0683 | 1 | F | Correction of test config tables of non-CA test cases for consistency with CA test cases on without RB allocation case | 16.11.0 |
| 2022-03 | RAN#95 | R5-221686 | 0689 | 1 | F | FR2 SA EVM test case update based on MU and TT analysis | 16.11.0 |
| 2022-03 | RAN#95 | R5-221687 | 0696 | 1 | F | Correction of general ON OFF time mask | 16.11.0 |
| 2022-03 | RAN#95 | R5-221688 | 0697 | 1 | F | Correction to FR2 absolute power tolerance MU and TT | 16.11.0 |
| 2022-03 | RAN#95 | R5-221689 | 0681 | 1 | F | Removal of empty lines in Table 7.3.2.3.2-1 and Table 7.3.2.5-2 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221690 | 0703 | 1 | F | Correction to PDCCH DCI format for FR2 test cases | 16.11.0 |
| 2022-03 | RAN#95 | R5-221691 | 0711 | 1 | F | Update to Clause 7.5 Adjacent channel selectivity | 16.11.0 |
| 2022-03 | RAN#95 | R5-221692 | 0682 | 1 | F | Correction of the table title style of Table 5.5A.3-1 | 16.11.0 |
| 2022-03 | RAN#95 | R5-221766 | 0701 | 1 | F | Update of 6.2A.2 for UE maximum output power reduction for CA | 16.11.0 |
| 2022-03 | RAN#95 | R5-221792 | 0708 | 1 | F | ETC for FR2 RF CA | 16.11.0 |
| 2022-03 | RAN#95 | R5-221889 | 0714 | 1 | F | FR2 Enhanced Beam Correspondence test updates | 16.11.0 |
| 2022-03 | RAN#95 | R5-221890 | 0715 | 1 | F | Minimum Conformance Requirements updates to enhanced beam correspondence | 16.11.0 |
| 2022-06 | RAN#96 | R5-222198 | 0720 | - | F | Correction of table numbers in 6.2D.2.5 | 16.12.0 |
| 2022-06 | RAN#96 | R5-222199 | 0721 | - | F | Correction of Test Environment for UL MIMO MPR test case | 16.12.0 |
| 2022-06 | RAN#96 | R5-222342 | 0723 | - | F | Beam peak search - re-positioning formula correction | 16.12.0 |
| 2022-06 | RAN#96 | R5-222488 | 0731 | - | F | Editorial correction for Tx test cases | 16.12.0 |
| 2022-06 | RAN#96 | R5-222544 | 0733 | - | F | Update of A-MPR and A-SE test cases | 16.12.0 |
| 2022-06 | RAN#96 | R5-222879 | 0736 | - | F | Update to FR2 6.2.3 A-MPR | 16.12.0 |
| 2022-06 | RAN#96 | R5-223122 | 0749 | - | F | Addition of FR2 6.2D.3 for ULFPTx | 16.12.0 |
| 2022-06 | RAN#96 | R5-223258 | 0752 | - | F | Correction of FR2 MOP and beam correspondence test cases | 16.12.0 |
| 2022-06 | RAN#96 | R5-223617 | 0728 | 1 | F | Update FR2 TRx MU in 38.521-2 | 16.12.0 |
| 2022-06 | RAN#96 | R5-223749 | 0726 | 1 | F | Common Uplink Configuration updates for NR RF requirement enhancements for FR2 | 16.12.0 |
| 2022-06 | RAN#96 | R5-223750 | 0740 | 1 | F | FR2 Enhanced Beam Correspondence test updates | 16.12.0 |
| 2022-06 | RAN#96 | R5-223751 | 0742 | 1 | F | Updates across Spherical Coverage test cases to incorporate Rel.16 requirements | 16.12.0 |
| 2022-06 | RAN#96 | R5-223752 | 0748 | 1 | F | Test case updates in Max Input Level FR2 CA tests | 16.12.0 |
| 2022-06 | RAN#96 | R5-223814 | 0724 | 1 | F | Rel-15 MPR updates | 16.12.0 |
| 2022-06 | RAN#96 | R5-223815 | 0725 | 1 | F | Common Uplink Configuration updates for Rel-15 FR2 | 16.12.0 |
| 2022-06 | RAN#96 | R5-223816 | 0732 | 1 | F | Correction to DCI format in signal quality TCs | 16.12.0 |
| 2022-06 | RAN#96 | R5-223817 | 0739 | 1 | F | Implement test function approach to limit Pcell Power in FR2 UL-CA tests | 16.12.0 |
| 2022-06 | RAN#96 | R5-223818 | 0750 | 1 | F | Correction to 6.2.1.1 for multi-band relaxation factors for PC3 UE | 16.12.0 |
| 2022-06 | RAN#96 | R5-223819 | 0755 | 1 | F | Clarification on Configured transmitted power | 16.12.0 |
| 2022-06 | RAN#96 | R5-223820 | 0757 | 1 | F | Implementation of FR2 single carrier Tx beam peak applicability for UL MIMO Tx tests | 16.12.0 |
| 2022-06 | RAN#96 | R5-223821 | 0761 | 1 | F | Editorial correction to test requirement of FR2 test cases | 16.12.0 |
| 2022-06 | RAN#96 | R5-223822 | 0754 | 1 | F | Clarification on Adjacent channel selectivity | 16.12.0 |
| 2022-06 | RAN#96 | R5-223823 | 0758 | 1 | F | Clarification on In-band blocking | 16.12.0 |
| 2022-06 | RAN#96 | R5-223824 | 0730 | 1 | F | Editorial correction in Annex | 16.12.0 |
| 2022-06 | RAN#96 | R5-223825 | 0734 | 1 | F | Correction of TRP Measurement Grids | 16.12.0 |
| 2022-06 | RAN#96 | R5-223826 | 0735 | 1 | F | CR on applicability per permitted test method | 16.12.0 |
| 2022-06 | RAN#96 | R5-223827 | 0743 | 1 | F | Correction to FR2 DL RMCs | 16.12.0 |
| 2022-06 | RAN#96 | R5-223828 | 0744 | 1 | F | Initial introduction of fast spherical coverage test method | 16.12.0 |
| 2022-06 | RAN#96 | R5-223829 | 0745 | 1 | F | Initial introduction of RSRP-B based Rx Peak Beam Search | 16.12.0 |
| 2022-06 | RAN#96 | R5-223830 | 0746 | 1 | F | Initial introduction of Enhanced EIRP measurement method | 16.12.0 |
| 2022-06 | RAN#96 | R5-223831 | 0751 | 1 | F | Correction to A.2.3 and A.3.3 for UL and DL RMCs | 16.12.0 |
| 2022-06 | RAN#96 | R5-223832 | 0760 | 1 | F | Clarification on UE Channel bandwidth per operating band for CA | 16.12.0 |
| 2022-09 | RAN#97 | R5-224247 | 0772 | - | F | Correction of the SCS value in Table 5.3.5-1 for n259 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224248 | 0773 | - | F | Correction of the clause numbers and table numbers in 7.3A.3 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224303 | 0775 | - | F | PUCCH format correction to test DFT-s-OFDM in FR2 | 16.13.0 |
| 2022-09 | RAN#97 | R5-224305 | 0777 | - | F | FR2 SA EVM test case update based on TT analysis | 16.13.0 |
| 2022-09 | RAN#97 | R5-224907 | 0787 | - | F | Reference sensitivity power level for CA, editor notes update on ETC | 16.13.0 |
| 2022-09 | RAN#97 | R5-225107 | 0794 | - | F | Update of spurious emissions test cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-225205 | 0797 | - | F | CR to update validation test frequencies and sub-ranges | 16.13.0 |
| 2022-09 | RAN#97 | R5-225607 | 0798 | 1 | F | Addition of new test case 6.2.2\_1 for FR2 MPR enhancements | 16.13.0 |
| 2022-09 | RAN#97 | R5-225658 | 0762 | 1 | F | New test case addition: 6.2.4\_1 Configured transmitted power with Power Boost | 16.13.0 |
| 2022-09 | RAN#97 | R5-225659 | 0765 | 1 | F | Enhanced Beam correspondence Measurement Uncertainties and test tolerances | 16.13.0 |
| 2022-09 | RAN#97 | R5-225660 | 0764 | 1 | F | Measurement uncertainties and test tolerances for test case 6.2.4\_1 Configured transmitted power with Power Boost | 16.13.0 |
| 2022-09 | RAN#97 | R5-225664 | 0776 | 1 | F | PC1 - MU and TT definition for MOP in 38.521-2 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225665 | 0778 | 1 | F | PC1 - MU and TT definition for REFSENS in 38.521-2 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225666 | 0767 | 1 | F | Updates to Spherical Coverage annexes | 16.13.0 |
| 2022-09 | RAN#97 | R5-225667 | 0780 | 1 | F | Definition of PC1 MU and relaxation | 16.13.0 |
| 2022-09 | RAN#97 | R5-225679 | 0779 | 1 | F | Update of FR2 5 to 8UL CA Test Cases | 16.13.0 |
| 2022-09 | RAN#97 | R5-225680 | 0766 | 1 | F | Updates related to TPMI test methods | 16.13.0 |
| 2022-09 | RAN#97 | R5-225719 | 0774 | 1 | F | Applicable NR-ARFCN correction for n259 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225743 | 0763 | 1 | F | In-band emissions minimum conformance requirements update | 16.13.0 |
| 2022-09 | RAN#97 | R5-225744 | 0786 | 1 | F | Reference sensitivity power level for CA, update on intra-band non-continuous CA | 16.13.0 |
| 2022-09 | RAN#97 | R5-225792 | 0768 | 1 | F | Tx Fast Spherical Coverage test cases integration | 16.13.0 |
| 2022-09 | RAN#97 | R5-225793 | 0771 | 1 | F | FR2 Tx Signal Quality UL MIMO Test Case Updates | 16.13.0 |
| 2022-09 | RAN#97 | R5-225794 | 0795 | 1 | F | Correction of spurious emissions test case | 16.13.0 |
| 2022-09 | RAN#97 | R5-225795 | 0800 | 1 | F | Updated Test points in FR2 CA MPR test case | 16.13.0 |
| 2022-09 | RAN#97 | R5-225796 | 0769 | 1 | F | Rx Fast Spherical Coverage test cases integration | 16.13.0 |
| 2022-09 | RAN#97 | R5-225797 | 0785 | 1 | F | Correction to interfere offset in 7.6.2 | 16.13.0 |
| 2022-09 | RAN#97 | R5-225798 | 0770 | 1 | F | Annex updates related to RSRP-B Rx Beam peak search | 16.13.0 |
| 2022-09 | RAN#97 | R5-225843 | 0796 | 1 | F | Update to FR2 CA MPR test case 6.2A.2.1 to prevent SCell drop by using UE PHR | 16.13.0 |
| 2022-09 | RAN#97 | R5-225844 | 0799 | 1 | F | Extension of test function approach to limit Pcell Power in some FR2 UL CA tests | 16.13.0 |
| 2022-09 | RAN#97 | R5-225845 | 0784 | 1 | F | Correction to test procedure of minimum output power | 16.13.0 |
| 2022-09 | RAN#97 | R5-225870 | 0782 | 1 | F | Correction to EVM measurement point for DFTs-OFDM DM-RS Type 2 | 16.13.0 |
| 2022-12 | RAN#98 | R5-225991 | 0810 | - | F | Removal of technical content in 38.521-2 v16.13.0 and substitution with pointer to the next Release | 16.14.0 |