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Technical Specification

3rd Generation Partnership Project;

Technical Specification Group Radio Access Network;

NR;

Derivation of test points for radio transmission and reception

User Equipment (UE) conformance test cases

(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.

# 1 Scope

The present document specifies and contains the derivation of Test Points for NR RF test cases, thereby 3GPP TSG RAN WG5 will have a way of storing the input contributions provided. The test cases are described in TS38.521-1[2], TS38.521-2[3] and TS38.521-3[4],

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

The present document is applicable from Release 15 up to the release indicated on the front page of the present Terminal conformance specifications.

# 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] to [9] (void)

[10] 3GPP TR 38.905 Release 17: "NR; Derivation of test points for radio transmission and reception User Equipment (UE) conformance test cases"

# 3 Definitions, symbols and abbreviations

Void

# 4 Test coverage analysis

The requirements of the present document are provided in 3GPP TR 38.905 Release 17 [10].

Annex A to D: Void

Annex B: Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2017-09 | RAN5#76 | R5-174704 | - | - | - | Draft skeleton TR 38.905 | 0.0.1 |
| 2018-04 | RAN5#2-5G-NR Adhoc | R5-181954 | - | - | - | Agreed Text Proposal in RAN5#2-5G-NR Adhoc:  **R5-181889**, " TP to update TR 38.905 with information on test point analysis "  Agreed Test Point Analysis in RAN5#78:  **R5-180885**, "Discussion on test point selection for NR Occupied Bandwidth in FR1"  **R5-180886**, "Discussion on test point selection for NR SEM in FR1"  **R5-180887**, "Discussion on test point selection for NR ACLR in FR1"  **R5-181524**, "Discussion on test point selection for Absolute Power Tolerance in FR1"  **R5-181525**, "Discussion on test point selection for Aggregate Power Tolerance in FR1"  Agreed Test Point Analysis in RAN5#2-5G-NR Adhoc:  **R5-182019**, "Discussion of NR FR1 Test Point for TX Spurious Emission test cases "  **R5-182024**, "Discussion on test point selection for NR Frequency Error in FR1”  **R5-181830**, "Discussion on test point selection for Maximum Output Power in FR1”  **R5-181831**, "Discussion on test point selection for Minimum Output Power in FR1**R5-181832**, "Discussion on test point selection for General ON/OFF Time Mask in FR1”  **R5-181879**, "Discussion on test point selection for NR In-Band in FR1”  **R5-181880**, "Discussion on test point selection for NR ACS in FR1”  **R5-182025**, "Discussion on test point selection for NR Frequency Error in FR1”  **R5-181905**, "Discussion on test point selection for NR Occupied Bandwidth in FR2”  **R5-182030**, "Discussion on test point selection for NR ACLR in FR2”  **R5-182042**, "Discussion on test point selection for NR In-Band blocking in FR2”  **R5-182044**, "Discussion on test point selection for NR ACS in FR2” | 0.1.0 |
| 2018-05 | RAN5#79 | R5-183078 | - | - | - | Document title corrected.  Agreed Text Proposal in RAN WG5#79:  **R5-183963**, "Test Point analysis for FR1 RefSens test case” | 0.2.0 |
| 2018-08 | RAN5#80 | R5-185134 | - | - | - | **R5-184923**, “Test Point analysis for FR2 RefSense test case”  **R5-184961**, “TP for updating TR 38.905 with FR2 Frequency Error test point analysis”  [**R5-185307**](file:///C:\AppData\Tdoc\R5-185307.zip), “TP for updating TR38.905 with FR1 AMPR test point analyses with NS\_35”  **R5-185309**, “Test Point analysis for FR1 Configured Output Power for SUL”  **R5-185311**, “TP for updating TR 38.905 with FR1 Carrier Leakage test point analysis”  **R5-185314**, “TP for updating TR 38.905 with FR1 EVM equalizer spectrum flatness test point analysis”  **R5-185316**, “TP for updating TR 38.905 with FR1 Frequency Error test point analysis”  **R5-185412**, “TP for updating TR 38.905 with EVM test point analysis”  **R5-185491**, “Test Point analysis for FR2 TxSpurious test case”  **R5-185215**, “TP for updating TR 38.905 with FR2 SEM test point analysis”  **R5-185334**, “Discussion of LTE Test point selection for EN-DC with FR1 Tx Spurious emission Test”  **R5-185301**, “Discussion on test point selection for NR Out-of-band in FR1”  **R5-185423**, “Discussion on Uplink configuration for NR Transmit Intermodulation in FR1”  **R5-185216**, “TP for updating TR38.905 with UE AMPR for NS\_04 Intra-band contiguous EN-DC”  **R5-185319**, “TP for updating TR 38.905 with FR1 In-band Emissions test point analysis” | 1.0.0 |
| 2018-09 | RAN#81 | - | - | - | - | raised to v15.0.0 with editorial changes only | 15.0.0 |
| 2018-12 | RAN#82 | R5-186454 | 0016 | - | F | TP analysis for test case 6.5.2.4.2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186455 | 0017 | - | F | TP analysis for EN-DC test case 6.2B.2.3 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186609 | 0018 | - | F | TP\_analysis for TX spurious emission UE co-existence for intra-band contiguous EN-DC with FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186610 | 0019 | - | F | TP analysis for Reference sensitivity for Intra-band Contiguous EN-DC with FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186611 | 0020 | - | F | TP analysis for Reference sensitivity for Inter-band EN-DC with FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186674 | 0021 | - | F | Test point analysis for AMPR Intra-band contiguous EN-DC in FR1 for NS\_35 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186710 | 0022 | - | F | TP analysis for test case 6.2B.2.4, UE Maximum Output Power reduction for Inter-Band EN-DC including FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-186791 | 0028 | - | F | TP analysis OBW intraband contiguous EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-186792 | 0029 | - | F | TP analysis SEM intraband contiguous EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-187035 | 0031 | - | F | Update test points analysis for multiple FR1 test cases | 15.1.0 |
| 2018-12 | RAN#82 | R5-187396 | 0037 | - | F | Update of TR 38.905 with SA FR1 A-MPR test point analyses, NS\_04 | 15.1.0 |
| 2018-12 | RAN#82 | R5-188240 | 0039 | 1 | F | Update of TR 38.905 with EN-DC A-MPR test point analyses, NS\_04 | 15.1.0 |
| 2018-12 | RAN#82 | R5-188227 | 0041 | 1 | F | Test Point analysis for FR2 Maximum Output Power | 15.1.0 |
| 2018-12 | RAN#82 | R5-187489 | 0042 | - | F | TP analysis for FR1 test case 6.3.4.3, relative power tolerance | 15.1.0 |
| 2018-12 | RAN#82 | R5-187582 | 0043 | - | F | Discussion on test point selection for EVM in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187583 | 0044 | - | F | Discussion on test point selection for Carrier Leakage in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187584 | 0045 | - | F | Update of test point selection for EVM equalizer spectrum flatness in FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187587 | 0046 | - | F | Discussion on test point selection for In-band Emissions in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187589 | 0047 | - | F | Discussion on test point selection for EVM equalizer spectrum flatness in FR2 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187593 | 0048 | - | F | Discussion on test point selection for EVM equalizer spectrum flatness for Pi/2 BPSK in FR1 | 15.1.0 |
| 2018-12 | RAN#82 | R5-187806 | 0023 | 1 | F | Test Point analysis for FR1 7.4 Maximum input level | 15.1.0 |
| 2018-12 | RAN#82 | R5-187808 | 0035 | 1 | F | TP analysis for receiver spurious emission tests for FR1 SA | 15.1.0 |
| 2018-12 | RAN#82 | R5-187809 | 0036 | 1 | F | TP analysis for wideband intermodulation tests for FR1 SA | 15.1.0 |
| 2018-12 | RAN#82 | R5-187817 | 0033 | 1 | F | TP analysis for receiver spurious emission tests for FR1 inter-band EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-187818 | 0034 | 1 | F | TP analysis for wideband intermodulation tests for FR1 inter-band EN-DC | 15.1.0 |
| 2018-12 | RAN#82 | R5-187836 | 0025 | 1 | F | Test Point analysis for FR2 7.4 Maximum input level | 15.1.0 |
| 2018-12 | RAN#82 | R5-187907 | 0024 | 1 | F | Test Point analysis for FR1 MPR test case | 15.1.0 |
| 2019-03 | RAN#83 | R5-191257 | 0077 | - | F | Test Point analysis for TC 6.3.3.4 PRACH time mask in FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191260 | 0078 | - | F | Test Point analysis for NR Narrow band in FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191261 | 0079 | - | F | Test Point analysis for NR spurious response in FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191337 | 0081 | - | F | Adding test case 6.2B.2.1 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-191678 | 0086 | - | F | Addition of TP analysis of FR2 6.3.1 Minimum output power | 15.2.0 |
| 2019-03 | RAN#83 | R5-191811 | 0087 | - | F | Test Point analysis update for FR2 TxSpurious test case | 15.2.0 |
| 2019-03 | RAN#83 | R5-191855 | 0091 | - | F | TP\_analysis\_38.905\_6.5.3.1\_TX\_SpurEmission | 15.2.0 |
| 2019-03 | RAN#83 | R5-192002 | 0104 | - | F | Adding test case 7.4B.1 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192003 | 0105 | - | F | Adding test case 7.4B.2 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192007 | 0106 | - | F | Adding test case 6.2B.1.1 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192008 | 0107 | - | F | Adding test case 6.2B.1.2 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192009 | 0108 | - | F | Adding test case 6.2B.1.3 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192239 | 0116 | - | F | TP analysis of FR1 time alignment error for UL MIMO | 15.2.0 |
| 2019-03 | RAN#83 | R5-192401 | 0085 | 1 | F | Addition of TP analysis of FR1 6.2.4 Configured transmitted power | 15.2.0 |
| 2019-03 | RAN#83 | R5-192404 | 0099 | 1 | F | TP analysis for FR1 6.5A.2.4.1.1 NR ACLR for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192405 | 0100 | 1 | F | TP analysis for FR1 6.5A.2.4.2.1 UTRA ACLR for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192406 | 0103 | 1 | F | TP analysis for FR1 6.5A.4.1 Transmit intermodulation for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192410 | 0110 | 1 | F | Update of TP analysis of FR1 6.3.1 Minimum Output Power | 15.2.0 |
| 2019-03 | RAN#83 | R5-192444 | 0113 | 1 | F | Addition of TP analysis for EN-DC 6.2B.4.1.3 Configured transmitted power inter-band within FR1 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192449 | 0080 | 1 | F | Adding FR2 test case 6.3.4.3 to 38.905 | 15.2.0 |
| 2019-03 | RAN#83 | R5-192546 | 0082 | 1 | F | Test Point analysis for FR1 6.3.3.6 SRS time mask | 15.2.0 |
| 2019-03 | RAN#83 | R5-192568 | 0095 | 1 | F | TP analysis for FR1 6.4A.2.1.1 Error Vector Magnitude for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192569 | 0094 | 1 | F | TP analysis for FR1 6.4A.1.1 Frequency error for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192571 | 0096 | 1 | F | TP analysis for FR1 6.4A.2.2.1 Carrier leakage for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192572 | 0097 | 1 | F | TP analysis for FR1 6.4A.2.3.1 In-band emissions for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192573 | 0098 | 1 | F | TP analysis for FR1 6.5A.2.2.1 Spectrum emission mask for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192574 | 0101 | 1 | F | TP analysis for FR1 6.5A.3.1.1 General spurious emissions for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192575 | 0102 | 1 | F | TP analysis for FR1 6.5A.3.2.1 Spurious emissions for UE co-existence for CA (2UL CA) | 15.2.0 |
| 2019-03 | RAN#83 | R5-192582 | 0109 | 1 | F | Add Tp analysis statements for MIMO tests | 15.2.0 |
| 2019-03 | RAN#83 | R5-192599 | 0084 | 1 | F | Update of TP analysis of FR1 6.2.1 MOP | 15.2.0 |
| 2019-03 | RAN#83 | R5-192624 | 0115 | 1 | F | TP\_analysis\_38.905\_6.5B.3\_TX\_SpurEmission | 15.2.0 |
| 2019-03 | RAN#83 | R5-192647 | 0092 | 1 | F | Addition of Test Point analysis of FR2 6.3.4.4 Aggregate power tolerance | 15.2.0 |
| 2019-03 | RAN#83 | R5-192684 | 0073 | 1 | F | TP analysis for FR1 Rx 7.9A.1 Spurious Emission for 2DL CA | 15.2.0 |
| 2019-03 | RAN#83 | R5-192691 | 0111 | 1 | F | Addition of TP analysis for EN-DC 6.2B.4.1.1 Configured transmitted power Intra-band contiguous | 15.2.0 |
| 2019-03 | RAN#83 | R5-192692 | 0112 | 1 | F | Addition of TP analysis for EN-DC 6.2B.4.1.2 Configured transmitted power Intra-band non-contiguous | 15.2.0 |
| 2019-03 | RAN#83 | R5-192846 | 0114 | 2 | F | Introduction of new section for Tp analysis of Tx spurious | 15.2.0 |
| 2019-06 | RAN#84 | R5-193543 | 0137 | - | F | Additional TT analysis for 38.521-3 MPR intra-band contiguous | 15.3.0 |
| 2019-06 | RAN#84 | R5-193808 | 0147 | - | F | Addition of TP analysis for power control for UL-MIMO | 15.3.0 |
| 2019-06 | RAN#84 | R5-193916 | 0148 | - | F | Update of TP analysis of 6.2D.3 A-MPR for UL-MIMO | 15.3.0 |
| 2019-06 | RAN#84 | R5-193919 | 0149 | - | F | Add SA FR1 RF 6.5D.2.4.2 to 38.905 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194010 | 0151 | - | F | Test Point analysis update for FR2 TxSpurious UE coexistence test case | 15.3.0 |
| 2019-06 | RAN#84 | R5-194168 | 0152 | - | F | Updating Annex A; Derivation documents | 15.3.0 |
| 2019-06 | RAN#84 | R5-194169 | 0153 | - | F | Update of test points analysis for NS\_35 A-MPR FR1 test case | 15.3.0 |
| 2019-06 | RAN#84 | R5-194170 | 0154 | - | F | Test point analysis for A-MPR Intra-band contiguous EN-DC; NS\_04 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194257 | 0155 | - | F | TP analysis for Asymmetric CH BWs in Reference Sensitivity Requirements in FR1 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194402 | 0158 | - | F | Test Point analysis for EN-DC In-band emissions for intra-band contiguous | 15.3.0 |
| 2019-06 | RAN#84 | R5-194459 | 0160 | - | F | Update to TP analysis for FR2 Maximum Output Power | 15.3.0 |
| 2019-06 | RAN#84 | R5-194904 | 0142 | 1 | F | Addition of TP analysis for 38.521-1 7.6D.3 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194907 | 0163 | 1 | F | Addition of TP analysis for 38.521-1 6.3A.3 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194909 | 0164 | 1 | F | Addition of TP analysis for 38.521-1 6.3A.1 FR1 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194913 | 0165 | - | F | Addition of TP analysis for ACS for 2DL CA in FR1 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194914 | 0166 | - | F | Addition of TP analysis for FR1 MOP for CA | 15.3.0 |
| 2019-06 | RAN#84 | R5-194927 | 0162 | 1 | F | Addition of test frequency selection of spurious co-existence inter-band for DC 3-n79 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194931 | 0141 | 1 | F | Addition of TP analysis for 38.521-1 7.6D.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194932 | 0143 | 1 | F | Addition of TP analysis for 38.521-1 7.6D.4 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194933 | 0144 | 1 | F | Addition of TP analysis for 38.521-1 7.8D.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194959 | 0167 | - | F | Addition of TP analysis for UL-MIMO cases of 6.3D.1 and 6.3D.3 | 15.3.0 |
| 2019-06 | RAN#84 | R5-194961 | 0157 | 1 | F | TP analysis for FR2 Tx 6.3A.1.1 Minimum output power for CA 2UL CA | 15.3.0 |
| 2019-06 | RAN#84 | R5-194963 | 0161 | 1 | F | Update SCS test points for FR2 ACS and Inband blocking test cases | 15.3.0 |
| 2019-06 | RAN#84 | R5-195146 | 0138 | 1 | F | Addition of TP analysis for SA FR2 6.2.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-195148 | 0139 | 1 | F | Addition of TP analysis for SA FR2 6.3.2 | 15.3.0 |
| 2019-06 | RAN#84 | R5-195190 | 0145 | 1 | F | TPanalysis of 7.7D Spurious response for UL-MIMO | 15.3.0 |
| 2019-06 | RAN#84 | R5-193730 | 0146 | - | F | Addition of test frequency selection of 6.5A.3.2 for Rel-16 CA\_n41A-n79A | 16.0.0 |
| 2019-06 | RAN#84 | R5-195055 | 0150 | 1 | F | Addition of test frequency selection of 6.5B.3.3.2 spurious co-existence inter-band for Rel-16 DC configurations | 16.0.0 |
| 2019-09 | RAN#85 | R5-196435 | 0184 | - | F | Update of TP analysis of FR2 minimum output power to add UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-196445 | 0185 | - | F | Correction of 4.5 to add DC\_3A-n41 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197315 | 0175 | 1 | F | Addition of TP analysis for FR1 MPR for CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197317 | 0176 | 1 | F | Addition of TP analysis for FR1 ConfigTP for CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197320 | 0179 | 1 | F | Addition of TP analysis of FR1 6.4D.2.1 EVM for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197322 | 0180 | 1 | F | Addition of TP analysis of FR1 6.4D.2.2 Carrier leakage for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197323 | 0181 | 1 | F | Addition of TP analysis of FR1 6.4D.2.3 Inband emission for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197325 | 0182 | 1 | F | Addition of TP analysis of FR1 6.4D.2.4 EVM equalizer spectrum flatness for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197326 | 0186 | 1 | F | Test Point analysis for Occupied bandwidth for 2UL CA in FR1 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197524 | 0187 | 1 | F | TP\_analysis\_38.905\_7.3A.\_CA\_ref\_sensitivity | 16.1.0 |
| 2019-09 | RAN#85 | R5-197589 | 0168 | 1 | F | New addition of TP analysis for MOP & MOP Spherical Coverage for UL CA in SA FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197590 | 0169 | 1 | F | New addition of TP analysis for Carrier leakage for UL CA in SA FR2 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197591 | 0170 | 1 | F | Adding test case 6.5B.2.1.3 to 38.905 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197592 | 0173 | 1 | F | Addition of TP analysis of FR2 6.6 Beam Correspondence | 16.1.0 |
| 2019-09 | RAN#85 | R5-197593 | 0174 | 1 | F | Test Point analysis update for FR2 Tx Spurious test case | 16.1.0 |
| 2019-09 | RAN#85 | R5-197594 | 0177 | 1 | F | Addition of TP analysis of FR1 Maximum input level for CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197595 | 0178 | 1 | F | Addition of TP analysis of FR1 6.4D.1 Frequency error for UL MIMO | 16.1.0 |
| 2019-09 | RAN#85 | R5-197596 | 0183 | 1 | F | Addition of TP analysis of FR2 6.2A.2 MPR for 2 UL CA | 16.1.0 |
| 2019-09 | RAN#85 | R5-197597 | 0191 | 1 | F | Addition of TP analysis for FR2 AMPR with NS\_201 | 16.1.0 |
| 2019-09 | RAN#85 | R5-197628 | 0192 | 2 | F | Updates of TP analysis for EN-DC MPR test case 6.2.B.2.1 | 16.1.0 |
| 2019-12 | RAN#86 | R5-198384 | 0203 |  | F | Addition of TP analysis of FR2 6.6 Beam Correspondence v1 | 16.2.0 |
| 2019-12 | RAN#86 | R5-198392 | 0205 |  | F | Addition of TP analysis of FR2 6.3D.3.4 SRS time mask for UL-MIMO | 16.2.0 |
| 2019-12 | RAN#86 | R5-198490 | 0206 |  | F | TPanalysis of TC 7.5B.1 ACS for intra-band contiguous EN-DC 2CCs | 16.2.0 |
| 2019-12 | RAN#86 | R5-198523 | 0208 |  | F | Test points analysis for NS\_03 A-MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-198527 | 0210 |  | F | Test points analysis for NS\_43 and NS\_43U A\_MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199326 | 0209 | 1 | F | Test points analysis for NS\_05 and NS\_05U A\_MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199327 | 0211 | 1 | F | Test points analysis for NS\_100 A\_MPR FR1 test case | 16.2.0 |
| 2019-12 | RAN#86 | R5-199328 | 0200 | 1 | F | Addition of test point analysis for SA FR1 TC 7.6A.3 Out-of-band blocking for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199372 | 0197 | 1 | F | Update of test point analysis for SA FR2 TC 6.2.2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199410 | 0199 | 1 | F | Update of test point analysis for SA FR1 TC 6.2.2 to add almost contiguous allocation test points | 16.2.0 |
| 2019-12 | RAN#86 | R5-199487 | 0202 | 1 | F | Addition of test point analysis for SA FR1 TC 7.8A Wide band Intermodulation for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199488 | 0201 | 1 | F | Addition of test point analysis for SA FR1 TC 7.6A.4 Narrow band blocking for CA | 16.2.0 |
| 2019-12 | RAN#86 | R5-199489 | 0207 | 1 | F | Addition of TP analysis for ACS for 3DL CA in FR1 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199501 | 0198 | 1 | F | Update of test point analysis for SA FR1 TC 6.5.2.4.2 | 16.2.0 |
| 2019-12 | RAN#86 | R5-199507 | 0196 | 1 | F | TP analysis for test case 6.2B.2.2, UE Maximum Output Power reduction for Intra-Band Non-Contiguous EN-DC | 16.2.0 |
| 2019-12 | RAN#86 | R5-199509 | 0194 | 1 | F | TP analysis for MOP for EN-DC | 16.2.0 |
| 2019-12 | RAN#86 | R5-199549 | 0204 | 1 | F | Addition to TP analysis of FR2 TC 6.3A.4.2.1 Absolute Power Control for CA | 16.2.0 |
| 2020-03 | RAN#87 | R5-200402 | 0215 | - | F | Updating TP of MOP for inter-band EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-200412 | 0221 | - | F | Editorial change of replacing zip file of FR2 6.3.1 by v2 | 16.3.0 |
| 2020-03 | RAN#87 | R5-200419 | 0222 | - | F | Update of test point analysis for 7.6A.3 Out-of-band blocking for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200459 | 0223 | - | F | Update of test point analysis for 7.6A.4 Narrow band blocking for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200460 | 0224 | - | F | Update of test point analysis for 7.8A Wide band Intermodulation for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200574 | 0226 | - | F | Addition of Test point selection for FR1 in SUL test cases | 16.3.0 |
| 2020-03 | RAN#87 | R5-200603 | 0227 | - | F | Test Point analysis for FR2 ref sens for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-200758 | 0229 | - | F | Correction of NS\_05 test points analysis | 16.3.0 |
| 2020-03 | RAN#87 | R5-200762 | 0231 | - | F | Test points analysis for NS\_38 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200764 | 0232 | - | F | Test points analysis for NS\_39 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200766 | 0233 | - | F | Test points analysis for NS\_43 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200768 | 0234 | - | F | Test points analysis for NS\_43U A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200799 | 0236 | - | F | Updated test point analysis for FR2 A-MPR test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-200815 | 0237 | - | F | Update of Test Point Analysis for UE Coexistence for DC\_3A-n41A and DC\_8A-n41A | 16.3.0 |
| 2020-03 | RAN#87 | R5-200990 | 0238 | 1 | F | Addition of TP analysis for FR1 In-band blocking for CA | 16.3.0 |
| 2020-03 | RAN#87 | R5-201182 | 0216 | 1 | F | Updating TP of configured output power for inter-band EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-201184 | 0218 | 1 | F | Updating TP of configured output power for intra-band contiguous EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-201186 | 0220 | 1 | F | Updating TP of configured output power for intra-band non-contiguous EN-DC | 16.3.0 |
| 2020-03 | RAN#87 | R5-201237 | 0230 | 1 | F | Test points analysis for NS\_37 A-MPR FR1 test case | 16.3.0 |
| 2020-03 | RAN#87 | R5-201239 | 0235 | 1 | F | Test points analysis for NS\_18 A-MPR FR1 test case | 16.3.0 |
| 2020-06 | RAN#88 | R5-201746 | 0242 | - | F | Addition of Number of test points for FR1 in SUL test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-201747 | 0243 | - | F | Addition of TP analysis for FR1 A-MPR for CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-201765 | 0246 | - | F | Test points analysis for NS\_27 A\_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-201767 | 0247 | - | F | Test points analysis for NS\_40 A\_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-201773 | 0250 | - | F | Test points analysis for NS\_47 A\_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-201871 | 0253 | - | F | Update of test points analysis in UE co-existence for inter-band EN-DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-201872 | 0254 | - | F | Update of Test Point Analysis for UE Co-existence for DC\_5A-n66A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201873 | 0255 | - | F | Update of Test Point Analysis for UE Co-existence for DC\_5A-n78A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201874 | 0256 | - | F | Update of Test Point Analysis for UE Co-existence for DC\_66A-n5A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201875 | 0257 | - | F | Update of Test Point Analysis for UE Co-existence for DC\_66A-n78A | 16.4.0 |
| 2020-06 | RAN#88 | R5-201929 | 0258 | - | F | Cleanup in 38.905 | 16.4.0 |
| 2020-06 | RAN#88 | R5-201931 | 0260 | - | F | Combined TP analysis for MPR, ACLR and SEM intra-band contiguous EN-DC test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202029 | 0261 | - | F | Introduction of test point analysis for 2CCs EN-DC TCs in FR1 in 7.6B Blocking characteristics for DC and 7.7B Spurious response for DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-202111 | 0262 | - | F | NS\_24 TP analysis to TR 38.905 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202524 | 0267 | - | F | TP\_analysis\_6.5.3.3\_TX\_Additional\_SpurEmission\_NS\_43 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202755 | 0248 | 1 | F | Test points analysis for NS\_41 A\_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-202756 | 0249 | 1 | F | Test points analysis for NS\_42 A\_MPR FR1 test case | 16.4.0 |
| 2020-06 | RAN#88 | R5-202757 | 0264 | 1 | F | TP\_analysis\_6.5.3.3\_TX\_Additional\_SpurEmission\_NS\_05 | 16.4.0 |
| 2020-06 | RAN#88 | R5-202918 | 0239 | 1 | F | Test Point analysis for FR2 Frequency Error for CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202926 | 0266 | 1 | F | Addition of TPanalysis 6.5A.3.2.1\_SECoex for CA\_n1A-n78A | 16.4.0 |
| 2020-06 | RAN#88 | R5-202932 | 0244 | 1 | F | Addition of TP analysis for FR1 Maximum input level for 3DL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202933 | 0245 | 1 | F | Addition of TP analysis for FR1 In-band blocking for 3DL CA | 16.4.0 |
| 2020-06 | RAN#88 | R5-202952 | 0251 | 1 | F | Updating TP of MOP for intra-band contiguous EN-DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-202953 | 0252 | 1 | F | Updating TP of MOP for intra-band non-contiguous EN-DC | 16.4.0 |
| 2020-06 | RAN#88 | R5-202954 | 0259 | 1 | F | Combined TP analysis for MPR, NR ACLR and SEM FR1 test cases | 16.4.0 |
| 2020-06 | RAN#88 | R5-202955 | 0263 | 1 | F | Updated TP analysis for 7.3A Reference sensitivity for CA | 16.4.0 |
| 2020-09 | RAN#89 | R5-203642 | 0269 | - | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_40A\_n1A | 16.5.0 |
| 2020-09 | RAN#89 | R5-203643 | 0270 | - | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_40A\_n78A | 16.5.0 |
| 2020-09 | RAN#89 | R5-203751 | 0275 | - | F | Editorial correction to references to EN-DC configurations | 16.5.0 |
| 2020-09 | RAN#89 | R5-204720 | 0299 | 1 | F | Add\_TP\_analysis\_table for TX\_spurious\_emission | 16.5.0 |
| 2020-09 | RAN#89 | R5-204726 | 0278 | 1 | F | Addition of test point analysis in Tx spurious emissions | 16.5.0 |
| 2020-09 | RAN#89 | R5-204727 | 0273 | 1 | F | Updating TP analysis for 6.2A.2-MPR for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204728 | 0279 | 1 | F | Update of test point analysis of MOP for intra-band contiguous EN-DC | 16.5.0 |
| 2020-09 | RAN#89 | R5-204789 | 0271 | 1 | F | Update of TP analysis for NS\_43 and NS\_01 in FR1 A-MPR for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204790 | 0272 | 1 | F | Update of TP analysis for NS\_43U and NS\_01 in FR1 A-MPR for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204791 | 0280 | 1 | F | Updating test point analysis for DC\_1A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204792 | 0281 | 1 | F | Updating test point analysis for DC\_2A-n66A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204793 | 0282 | 1 | F | Updating test point analysis for DC\_2A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204794 | 0283 | 1 | F | Updating test point analysis for DC\_3A-n7A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204795 | 0284 | 1 | F | Updating test point analysis for DC\_3A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204796 | 0285 | 1 | F | Updating test point analysis for DC\_7A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204797 | 0292 | 1 | F | Correction to test point analysis for spurious emissions UE co-existence for a few inter-band EN-DC configurations | 16.5.0 |
| 2020-09 | RAN#89 | R5-204817 | 0286 | 1 | F | Updating test point analysis for DC\_3A-n1A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204818 | 0287 | 1 | F | Updating test point analysis for DC\_7A-n1A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204819 | 0288 | 1 | F | Updating test point analysis for DC\_7A-n66A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204820 | 0289 | 1 | F | Updating test point analysis for DC\_8A-n1A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204821 | 0290 | 1 | F | Updating test point analysis for DC\_12A-n78A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204822 | 0291 | 1 | F | Updating test point analysis for DC\_28A-n3A for spurious emissions UE co-existence | 16.5.0 |
| 2020-09 | RAN#89 | R5-204829 | 0293 | 1 | F | Addition of test point analysis for AMPR NS\_48 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204838 | 0274 | 1 | F | Updating TP analysis for 6.2A.4-Configured output power for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204948 | 0295 | 1 | F | Addition of Test Point analysis for FR2 Transmit OFF Power for CA | 16.5.0 |
| 2020-09 | RAN#89 | R5-204949 | 0298 | 1 | F | TP analysis 6.5B.3 TX SpurEmission EN-DC V2 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204950 | 0300 | 1 | F | Updated TP analysis for 7.3B Reference sensitivity for EN-DC in FR1 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204959 | 0301 | 1 | F | Update of TPanalysis 6.5A.3.2.1\_SECoex for CA\_n1A-n78A | 16.5.0 |
| 2020-09 | RAN#89 | R5-204963 | 0276 | 1 | F | Update test point analysis for A-MPR NS\_18 with CBW being 30MHz | 16.5.0 |
| 2020-09 | RAN#89 | R5-204964 | 0294 | 1 | F | Addition of test point analysis for additional spurious emission with NS\_17 | 16.5.0 |
| 2020-09 | RAN#89 | R5-204982 | 0268 | 2 | F | Updated TP analysis for 7.3A | 16.5.0 |
| 2020-12 | RAN#90 | R5-205264 | 0303 | - | F | Addition of Test Point analysis for 6.3A.4.1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205265 | 0304 | - | F | Addition of Test Point analysis for 6.3A.4.2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205267 | 0305 | - | F | Addition of Test Point analysis for 6.3A.4.3 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205558 | 0309 | - | F | Adding test point analysis for A-MPR test of band n30 with NS\_21 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205619 | 0312 | - | F | Addition of TP Analysis for TC 6.5A.2.1 Spectrum Emission Mask for CA in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205630 | 0313 | - | F | Addition of TP Analysis for TC 6.5A.2.2 Adjacent channel leakage ratio for CA in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-205780 | 0318 | - | F | Addition of test point analysis for DC\_2A\_n5A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205781 | 0319 | - | F | Addition of test point analysis for DC\_8A\_n78A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205782 | 0320 | - | F | Addition of test point analysis for DC\_12A\_n66A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205783 | 0321 | - | F | Addition of test point analysis for DC\_30A\_n5A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205785 | 0322 | - | F | Addition of test point analysis for DC\_13A\_n66A in Tx spurious emissions cases | 16.6.0 |
| 2020-12 | RAN#90 | R5-205885 | 0329 | - | F | Addition of test point analysis for A-MPR NS\_46 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206037 | 0333 | - | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n3A | 16.6.0 |
| 2020-12 | RAN#90 | R5-206729 | 0332 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_1A\_n3A | 16.6.0 |
| 2020-12 | RAN#90 | R5-206752 | 0302 | 1 | F | Addition of test point analysis for A-MPR NS\_45 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206769 | 0325 | 1 | F | Update of test point analysis for Tx spurious emissions in NR FR1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206853 | 0328 | 1 | F | Update to test point analysis for A-MPR NS\_18 with 30MHz | 16.6.0 |
| 2020-12 | RAN#90 | R5-206854 | 0314 | 1 | F | Updating TP analysis for OBW for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206855 | 0316 | 1 | F | Updating TP analysis for Maximum input level for 3DL CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206856 | 0317 | 1 | F | Updating TP analysis for Inband blocking for 3DL CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206857 | 0323 | 1 | F | Update of test point analysis for MPR, SEM and ACLR in NR FR1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206858 | 0324 | 1 | F | Update of test point analysis for MOP in FR1 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206873 | 0310 | 1 | F | Restructuring of TR 38.905. | 16.6.0 |
| 2020-12 | RAN#90 | R5-206874 | 0311 | 1 | F | Combined TP analysis for FR2 test cases MPR, ACLR and SEM | 16.6.0 |
| 2020-12 | RAN#90 | R5-206875 | 0331 | 1 | F | Update of TPA for in-band emission and carrier leakage TCs | 16.6.0 |
| 2020-12 | RAN#90 | R5-206876 | 0336 | 1 | F | Update of test point analysis for occupied bandwidth in FR2 | 16.6.0 |
| 2020-12 | RAN#90 | R5-206893 | 0315 | 1 | F | Updating TP analysis for REFSENS for CA | 16.6.0 |
| 2020-12 | RAN#90 | R5-206917 | 0330 | 1 | F | Updated TP analysis for 7.3B Reference sensitivity for EN-DC in FR1 | 16.6.0 |
| 2021-03 | RAN#91 | R5-210383 | 0343 | - | F | Correct a typo of 6.3A.4.2 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210512 | 0344 | - | F | Introduction of test point analysis for SA FR2 7.4A Maximum input level for CA | 16.7.0 |
| 2021-03 | RAN#91 | R5-210740 | 0347 | - | F | Updating TP analysis of FR1 A-MPR for NS\_48 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210742 | 0348 | - | F | Adding TP analysis of FR1 A-MPR for NS\_49 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210743 | 0349 | - | F | Resubmitting TP analysis of FR1 A-MPR for NS\_44 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210791 | 0353 | - | F | Adding TP selection for 6.4C.2 Transmit modulation quality for SUL | 16.7.0 |
| 2021-03 | RAN#91 | R5-210900 | 0354 | - | F | Updating TP analysis for Spurious Emissions for CA in FR1 | 16.7.0 |
| 2021-03 | RAN#91 | R5-210905 | 0356 | - | F | Updating TP analysis for FR1 REFSENS for SUL testing | 16.7.0 |
| 2021-03 | RAN#91 | R5-210963 | 0362 | - | F | Spur emission TP analysis R16 DC\_5A\_n2A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211018 | 0368 | - | F | TP analysis for test case 6.5D.2\_1.4.2, UTRA ACLR for UL MIMO (Rel-16 onward) | 16.7.0 |
| 2021-03 | RAN#91 | R5-211134 | 0380 | - | F | TP analysis for ULFPTx in MPR test case | 16.7.0 |
| 2021-03 | RAN#91 | R5-211230 | 0389 | - | F | NS\_12, NS\_13, NS\_14, NS\_15 TP analysis to 38.905 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211733 | 0340 | 1 | F | Updated TP analysis for 7.3B Reference sensitivity for EN-DC in FR1 | 16.7.0 |
| 2021-03 | RAN#91 | R5-211734 | 0341 | 1 | F | TP analysis for 38.521-3 test case 6.5B.2.2.1 SEM Intra-band non-contiguous | 16.7.0 |
| 2021-03 | RAN#91 | R5-211735 | 0342 | 1 | F | TP analysis for 38.521-3 test case 6.5B.2.2.3 ACLR Intra-band non-contiguous | 16.7.0 |
| 2021-03 | RAN#91 | R5-211736 | 0345 | 1 | F | Update of test point analysis for FR2 UL CA frequency error test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211737 | 0369 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_8A\_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211738 | 0370 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_11A\_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211739 | 0371 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_11A\_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211740 | 0372 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_11A\_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211741 | 0373 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_25A\_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211742 | 0374 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_26A\_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211743 | 0375 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_26A\_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211744 | 0376 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_26A\_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211745 | 0377 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_26A\_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211746 | 0378 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_41A\_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211747 | 0379 | 1 | F | Introduction of spurious emission TP analysis for Rel-15 EN-DC configuration DC\_41A\_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211748 | 0388 | 1 | F | Test Point analysis update for FR2 Tx additional spurious emission test case | 16.7.0 |
| 2021-03 | RAN#91 | R5-211774 | 0337 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_7A\_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211775 | 0338 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_8A\_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211776 | 0339 | 1 | F | Introduction of spurious emission TP analysis for Rel-16 EN-DC configuration DC\_20A\_n1A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211777 | 0361 | 1 | F | Spur emission TP analysis R16 DC\_2A\_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211778 | 0363 | 1 | F | Spur emission TP analysis R16 DC\_13A\_n2A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211779 | 0364 | 1 | F | Spur emission TP analysis R16 DC\_48A\_n5A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211780 | 0365 | 1 | F | Spur emission TP analysis R16 DC\_48A\_n66A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211781 | 0366 | 1 | F | Spur emission TP analysis R16 DC\_66A\_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211809 | 0350 | 1 | F | Adding TP analysis for Rel-16 DMRS in A-MPR test case | 16.7.0 |
| 2021-03 | RAN#91 | R5-211810 | 0351 | 1 | F | Update of TP analysis for EVM equalizer spectrum flatness for half Pi BPSK | 16.7.0 |
| 2021-03 | RAN#91 | R5-211811 | 0352 | 1 | F | Update of TP analysis for FR1 SUL test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211893 | 0346 | 1 | F | Update of test point analysis for FR2 MPR, SEM and ACLR test cases | 16.7.0 |
| 2021-03 | RAN#91 | R5-211894 | 0359 | 1 | F | Addition of reference sensitivity test point analyses for FR1 NR CA and EN-DC | 16.7.0 |
| 2021-03 | RAN#91 | R5-211895 | 0360 | 1 | F | Moving of principles for reference sensitivity test point selection from attachments to annexes | 16.7.0 |
| 2021-03 | RAN#91 | R5-211897 | 0382 | 1 | F | TP analysis for DC\_8A\_n77A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211898 | 0383 | 1 | F | TP analysis for DC\_11A\_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211899 | 0384 | 1 | F | TP analysis for DC\_26A\_n41A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211900 | 0385 | 1 | F | TP analysis for DC\_26A\_n77A and DC\_26A\_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211901 | 0386 | 1 | F | TP analysis for DC\_26A\_n79A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211902 | 0387 | 1 | F | TP analysis for DC\_41A\_n77A and DC\_41A\_n78A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211906 | 0390 | 1 | F | Reference sensitivity TP analysis for DC\_1A-28A\_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211907 | 0391 | 1 | F | Reference sensitivity analysis for DC\_3A-7A\_n1A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211908 | 0392 | 1 | F | Reference sensitivity TP analysis for DC\_7A-20A\_n1A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211909 | 0393 | 1 | F | Reference sensitivity TP analysis for DC\_7A-28A\_n3A | 16.7.0 |
| 2021-03 | RAN#91 | R5-211914 | 0358 | 1 | F | Adding TP analysis for NR test case-Time mask for UL carrier switching | 16.7.0 |
| 2021-06 | RAN#92 | R5-212178 | 0394 | - | F | Removal of technical content in 38.905 v16.7.0 and substitution with pointer to the next Release | 16.8.0 |