



**5G;
NR;**

**Derivation of test tolerances and measurement uncertainty for
User Equipment (UE) conformance test cases
(3GPP TR 38.903 version 17.4.0 Release 17)**



Reference

RTR/TSGR-0538903vh40

Keywords

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Foreword

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- x the first digit:
 - 1 presented to TSG for information;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

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1 Scope

The present document specifies a general method used to derive Measurement Uncertainties and Test Tolerances for UE conformance tests. The acceptable uncertainties for each test case are documented and establish a system for relating the Test Tolerances to the measurement uncertainties of the Test System.

For UE radio transmitting and reception tests, only FR2 is considered in this document. For UE RRM and Demodulation tests, both FR1 and FR2 are considered in this document.

The test cases which have been analysed to determine Test Tolerances 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.
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[1] to [20] (void)

[21] 3GPP TR 38.903 Release 18: "Derivation of test tolerances and measurement uncertainty for User Equipment (UE) conformance test cases"

3 Definitions, symbols and abbreviations

Void

4 General Principles

The requirements of the present document are provided in 3GPP TR 38.903 Release 18 [21].

5 to 9 Void

Annex A to G: Void

Annex H: Change history

Change history							
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2017-09	RAN5 #76	R5-174706				Initial skeleton	0.0.1
2018-04	RAN5 #2-5G-NR-Adhoc	R5-182093				Implementation of pCRs to TS 38.903 V0.0.1	0.1.0
2018-05	RAN5#79	R5-182670				Editorial update of TR 38.903.	0.2.0
2018-09	RAN5#80	R5-185213				Making Measurement Uncertainty Terms Common between methods in TR 38.90	1.0.0
2018-09	RAN5#80	R5-185214				TP on Measurement Uncertainty Contributions in FR2	1.0.0
2018-09	RAN5#80	R5-185212				Adding MU values for EIRPTRP measurements with Near Field test range (NFTF) at mmWave	1.0.0
2018-09	RAN#81	-	-	-		raised to v15.0.0 with editorial changes only	15.0.0
2018-12	RAN#82	R5-187023	0010	-	F	Editorial update of Annex B	15.1.0
2018-12	RAN#82	R5-187024	0011	-	F	Addition of MU contribution for demodulation test cases	15.1.0
2018-12	RAN#82	R5-187025	0012	-	F	Addition of MU contribution for RRM test cases	15.1.0
2018-12	RAN#82	R5-187148	0013	-	F	General clauses updated for TR38.903	15.1.0
2018-12	RAN#82	R5-187848	0008	1	F	FR2 Spurious Emission measurement grids and offset values	15.1.0
2018-12	RAN#82	R5-188060	0019	1	F	Update of MU budget and contributor description to TR 38.903	15.1.0
2018-12	RAN#82	R5-188224	0009	1	F	Update MU budget in TR 38.903	15.1.0
2018-12	RAN#82	R5-188225	0016	1	F	Update of MU budget tables in TR 38.903	15.1.0
2018-12	RAN#82	R5-188226	0017	2	F	Addition of descriptions on new MU contributions	15.1.0
2019-03	RAN#83	R5-192476	0030	1	F	Addition of Test Tolerance analysis for FR1 PRACH Test cases	15.2.0
2019-03	RAN#83	R5-192504	0038	1	F	Addition of TT analysis for Transmit timing accuracy Tests	15.2.0
2019-03	RAN#83	R5-192505	0031	1	F	Addition common text for RRM	15.2.0
2019-03	RAN#83	R5-192534	0039	-	F	Addition of TT Analysis for Timing Advance Adjustment Accuracy 4.4.3.1	15.2.0
2019-03	RAN#83	R5-192671	0033	1	F	Addition of TT analysis for event triggered test cases	15.2.0
2019-03	RAN#83	R5-192679	0036	1	F	Addition of TT analysis for handover with known cell	15.2.0
2019-03	RAN#83	R5-192845	0029	1	F	CR to update TR 38.903	15.2.0
2019-06	RAN#84	R5-193799	0048	-	F	FR1 Test tolerance analysis for intra re-selection 6.1.1.1	15.3.0
2019-06	RAN#84	R5-193800	0049	-	F	FR1 Test tolerance analysis for inter re-selection 6.1.1.2	15.3.0
2019-06	RAN#84	R5-193801	0050	-	F	FR1 Test tolerance analysis for interRAT higher priority re-selection 6.1.2.1	15.3.0
2019-06	RAN#84	R5-193802	0051	-	F	FR1 Test tolerance analysis for interRAT lower priority re-selection 6.1.2.2	15.3.0
2019-06	RAN#84	R5-193803	0052	-	F	FR1 Test tolerance analysis for interRAT known handover 6.3.1.4	15.3.0
2019-06	RAN#84	R5-194027	0057	-	F	CR on spurious emission MU in FR2	15.3.0
2019-06	RAN#84	R5-194123	0058	-	F	Definition of MU terminologies in TR 38.903	15.3.0
2019-06	RAN#84	R5-195014	0054	1	F	FR1 Test tolerance analysis for EN-DC SCell activation 4.5.3.1-4.5.3.3	15.3.0
2019-06	RAN#84	R5-195015	0060	1	F	Test Tolerance analysis for Inter-Freq measurement Test Cases	15.3.0
2019-06	RAN#84	R5-195159	0059	1	F	CR to update TR 38.903 after RAN5#5-5GNR Adhoc	15.3.0
2019-06	RAN#84	R5-195181	0055	1	F	FR1 Test tolerance analysis for EN-DC measurement reporting 4.6.1.1-4.6.1.4	15.3.0
2019-06	RAN#84	-	-	-		Administrative release upgrade to match the release of 3GPP TS 38.521-1 which was upgraded at RAN#84 to Rel-16 due to Rel-16 relevant CR(s)	16.0.0
2019-09	RAN#85	R5-195583	0061	-	F	Update FR1 Test tolerance of 4.5.3.1-4.5.3.3 Scell activation	16.1.0
2019-09	RAN#85	R5-195584	0062	-	F	Update FR1 Test tolerance of 6.1.1.1 FR1 cell re-selection	16.1.0
2019-09	RAN#85	R5-195585	0063	-	F	Update FR1 Test tolerance of 6.1.1.2 FR1-FR1 cell re-selection	16.1.0
2019-09	RAN#85	R5-195586	0064	-	F	Update FR1 Test tolerance of 6.1.2.1 inter-RAT cell re-selection to higher priority	16.1.0
2019-09	RAN#85	R5-195587	0065	-	F	Update FR1 Test tolerance of 6.1.2.2 inter-RAT cell re-selection to lower priority	16.1.0
2019-09	RAN#85	R5-195588	0066	-	F	Update FR1 Test tolerance of 6.3.1.4 inter-RAT handover to known cell	16.1.0
2019-09	RAN#85	R5-195589	0067	-	F	Addition FR1 Test tolerance of 6.3.1.5 inter-RAT handover to unknown cell	16.1.0
2019-09	RAN#85	R5-195590	0068	-	F	Addition FR1 Test tolerance of 6.3.2.1.1 intra-freq RRC re-establishment	16.1.0
2019-09	RAN#85	R5-195591	0069	-	F	Addition FR1 Test tolerance of 6.3.2.1.2 inter-freq RRC re-establishment	16.1.0
2019-09	RAN#85	R5-195592	0070	-	F	Addition FR1 Test tolerance of 6.3.2.3.1 NR RRC redirection	16.1.0
2019-09	RAN#85	R5-195593	0071	-	F	Addition FR1 Test tolerance of 6.3.2.3.2 inter-RAT RRC redirection	16.1.0
2019-09	RAN#85	R5-197362	0072	1	F	FR1 Test Tolerance Analysis for SSB-based RLM IS Tests	16.1.0
2019-09	RAN#85	R5-197363	0073	1	F	FR1 Test Tolerance Analysis for SA Tx Timing Accuracy 6.4.1.1	16.1.0
2019-09	RAN#85	R5-197365	0083	1	F	TT_Analysis_ENDC_FR1_RLM_OOS	16.1.0
2019-09	RAN#85	R5-197369	0087	1	F	TT_Analysis_SA_FR1_TAAA	16.1.0
2019-09	RAN#85	R5-197494	0077	1	F	CR on DUT turnover and relations with QoQZ MU	16.1.0
2019-09	RAN#85	R5-197505	0081	1	F	Update of FR2 MUs in TR 38.903	16.1.0

2019-09	RAN#85	R5-197571	0078	1	F	TT Analysis for SS-RSRP FR1 tests	16.1.0
2019-09	RAN#85	R5-197625	0080	1	F	CR on FR2 OFF Power MU	16.1.0
2019-09	RAN#85	R5-197659	0076	2	F	CR on spurious emission MU in FR2	16.1.0
2019-12	RAN#86	R5-198260	0099	-	F	CR to 38.903 to define Reference Methodology for SE	16.2.0
2019-12	RAN#86	R5-198285	0100	-	F	FR1 Test tolerance analysis for interRAT measurement	16.2.0
2019-12	RAN#86	R5-198427	0101	-	F	Correction to uncertainty budget calculation principles	16.2.0
2019-12	RAN#86	R5-199070	0098	1	F	Editorial corrections to FR1 Test Tolerance files	16.2.0
2019-12	RAN#86	R5-199082	0104	2	F	FR1 Test Tolerance : Addition of TT Analysis for 6.3.1.1 NR SA FR1 Intra-Freq Handover	16.2.0
2019-12	RAN#86	R5-199083	0105	2	F	FR1 Test Tolerance : Addition of TT Analysis for 6.3.1.2 NR SA FR1 Intra-Freq Handover	16.2.0
2019-12	RAN#86	R5-199084	0106	2	F	FR1 Test Tolerance : Addition of TT Analysis for 6.3.1.3 NR SA FR1 Inter-Freq Handover	16.2.0
2019-12	RAN#86	R5-199091	0102	1	F	Update on FR2 MUs in 38.903	16.2.0
2019-12	RAN#86	R5-199092	0103	1	F	Update on FR2 Spurious MUs in 38.903	16.2.0
2019-12	RAN#86	R5-199362	0091	1	F	FR1 Test tolerance analysis for interruptions active and non-active	16.2.0
2019-12	RAN#86	R5-199363	0094	1	F	FR1 Test tolerance analysis for CSI-RS based RLM	16.2.0
2020-03	RAN#87	R5-200163	0107	-	F	Add Annex A.2 handling of common Test Tolerance Topics for FR2	16.3.0
2020-03	RAN#87	R5-200329	0112	-	F	CR to 38.903 on XPD Verification	16.3.0
2020-03	RAN#87	R5-200470	0114	-	F	FR1 Test tolerance analysis for interruptions deactivated NR SCC	16.3.0
2020-03	RAN#87	R5-200918	0116	1	F	Update to FR2 TRx Measurement Uncertainties	16.3.0
2020-03	RAN#87	R5-201037	0108	1	F	Test tolerance analysis inter-frequency SS-RSRP and intra-frequency SS-SINR	16.3.0
2020-03	RAN#87	R5-201038	0109	1	F	Test tolerance analysis SS-RSRQ and inter-frequency SS-SINR	16.3.0
2020-03	RAN#87	R5-201042	0110	1	F	Test Tolerance analysis for CSI-RS-Based L1-RSRP measurement test cases	16.3.0
2020-03	RAN#87	R5-201043	0111	1	F	Test Tolerance analysis for SSB-Based L1-RSRP measurement test cases	16.3.0
2020-06	RAN#88	R5-201662	0118	-	F	FR1 Test tolerance analysis for interruptions deactivated E-UTRAN SCC	16.4.0
2020-06	RAN#88	R5-203094	0119	1	F	FR1 Test tolerance analysis for SCell activation	16.4.0
2020-06	RAN#88	R5-202104	0124	-	F	Test tolerance correction for event triggered measurement test cases	16.4.0
2020-06	RAN#88	R5-202105	0125	-	F	Test tolerance correction for CSI-RS-based L1-RSRP measurement test cases	16.4.0
2020-06	RAN#88	R5-202702	0130	1	F	Test Tolerance analysis TC 4.5.4 and 6.5.4 RRC reconfiguration delay	16.4.0
2020-06	RAN#88	R5-202769	0127	1	F	CR to 38.903 to introduce baseline Demod MU tables	16.4.0
2020-06	RAN#88	R5-202915	0117	1	F	MU contributors for RRM FR2 TC 7.7.1.1	16.4.0
2020-06	RAN#88	R5-202916	0126	1	F	CR to 38.903 to introduce PC1 MU Tables	16.4.0
2020-06	RAN#88	R5-202917	0128	1	F	Update to FR2 Measurement Uncertainties	16.4.0
2020-06	RAN#88	R5-202938	0129	1	F	Addition of EIRP to Transmit OFF power MU analysis	16.4.0
2020-09	RAN#89	R5-203231	0131	-	F	TT analysis for RRM TC 8.5.2.1.1.1	16.5.0
2020-09	RAN#89	R5-203232	0132	-	F	TT analysis for RRM TC 8.5.2.2.1	16.5.0
2020-09	RAN#89	R5-203233	0133	-	F	TT analysis for RRM TC 8.5.2.3.1	16.5.0
2020-09	RAN#89	R5-203237	0134	-	F	TT analysis for RRM TC 4.7.4.1.1	16.5.0
2020-09	RAN#89	R5-203238	0135	-	F	TT analysis for RRM TC 4.7.4.1.2	16.5.0
2020-09	RAN#89	R5-203232	0140	-	F	Add Draft Test Tolerance analysis for FR2 Tx Timing Test cases	16.5.0
2020-09	RAN#89	R5-203324	0141	-	F	Add Draft Test Tolerance analysis for FR2 Inter-freq Event-trig Test cases	16.5.0
2020-09	RAN#89	R5-203325	0142	-	F	Add Draft Test Tolerance analysis for FR2 Intra-freq SS-RSRP Test case	16.5.0
2020-09	RAN#89	R5-203825	0149	-	F	Addition of FR1 Test tolerance analysis for 6.3.2.1.3 RRC Re-establishment	16.5.0
2020-09	RAN#89	R5-203826	0150	-	F	Update of grouping of test cases in clause 8	16.5.0
2020-09	RAN#89	R5-204190	0154	-	F	On Standard Deviation Definition in 38.903	16.5.0
2020-09	RAN#89	R5-204788	0138	1	F	Correction to the extreme conditions in TT analysis of 4.7.1.2.1	16.5.0
2020-09	RAN#89	R5-204887	0139	1	F	CR to update the DL AWGN absolute power for RRM test cases	16.5.0
2020-09	RAN#89	R5-204888	0143	1	F	Adjacent Channel Selectivity FR2 MU definition in 38.903	16.5.0
2020-09	RAN#89	R5-204889	0144	1	F	In-band Blocking FR2 MU definition in 38.903	16.5.0
2020-09	RAN#89	R5-204890	0153	1	F	CR to update MU in 38.903	16.5.0
2020-09	RAN#89	R5-204891	0155	1	F	FR2 Minimum output power measurement uncertainty	16.5.0
2020-09	RAN#89	R5-204945	0152	1	F	CR to 38.903 on some of the Transmit OFF power MU parameters	16.5.0
2020-09	RAN#89	R5-204946	0156	1	F	Update of AWGN flatness in TR 38.903	16.5.0
2020-09	RAN#89	R5-204947	0157	1	F	FR2 EIRP OFF power measurement uncertainty	16.5.0
2020-09	RAN#89	R5-205001	0145	1	F	Addition of FR1 Test tolerance analysis for DCI based BWP switch	16.5.0
2020-09	RAN#89	R5-205002	0146	1	F	Addition of FR1 Test tolerance analysis for RRC based BWP switch	16.5.0
2020-09	RAN#89	R5-205003	0147	1	F	Addition of FR1 Test tolerance analysis for SSB based BFR	16.5.0
2020-09	RAN#89	R5-205004	0148	1	F	Addition of FR1 Test tolerance analysis for CSI-RS based BFR	16.5.0
2020-12	RAN#90	R5-205628	0174	-	F	RRM FR2 DL AWGN absolute power MU	16.6.0
2020-12	RAN#90	R5-205704	0176	-	F	Update of demod MU	16.6.0
2020-12	RAN#90	R5-205831	0177	-	F	Editorial correction of clause 5.2	16.6.0

2020-12	RAN#90	R5-205949	0183	-	F	Update of grouping of test cases in clause 8	16.6.0
2020-12	RAN#90	R5-206809	0158	1	F	TT analysis for RRM 6.7.5.1	16.6.0
2020-12	RAN#90	R5-206810	0159	1	F	TT analysis for RRM 6.7.6.1	16.6.0
2020-12	RAN#90	R5-206811	0160	1	F	TT analysis for RRM 6.7.7.1	16.6.0
2020-12	RAN#90	R5-206812	0161	1	F	TT analysis for RRM 4.7.5.1	16.6.0
2020-12	RAN#90	R5-206813	0163	1	F	TT analysis for RRM 8.5.2.1.2	16.6.0
2020-12	RAN#90	R5-206814	0166	1	F	Add Draft Test Tolerance analysis for FR2 PRACH Test cases	16.6.0
2020-12	RAN#90	R5-206815	0178	1	F	Addition of FR1 TT analysis for inter-RAT cell reselection	16.6.0
2020-12	RAN#90	R5-206816	0179	1	F	Addition of FR1 TT analysis for inter-RAT handover	16.6.0
2020-12	RAN#90	R5-206817	0180	1	F	Addition of FR1 TT analysis for inter-RAT SFTD measurement	16.6.0
2020-12	RAN#90	R5-206818	0181	1	F	Addition of FR1 TT analysis for inter-RAT event-triggered reporting	16.6.0
2020-12	RAN#90	R5-206835	0184	1	F	CR to 38.903 on ETC Testing	16.6.0
2020-12	RAN#90	R5-206836	0185	1	F	CR to add DFF MU Tables in 38.903	16.6.0
2020-12	RAN#90	R5-206837	0187	1	F	Update FR2 TRx MU in 38.903	16.6.0
2020-12	RAN#90	R5-206838	0189	1	F	FR2 Time masks updates	16.6.0
2020-12	RAN#90	R5-206845	0164	1	F	TT analysis for RRM 8.5.2.2.2	16.6.0
2020-12	RAN#90	R5-206846	0167	1	F	Update Draft Test Tolerance analysis for FR2 Tx Timing Test cases	16.6.0
2020-12	RAN#90	R5-206847	0169	1	F	Add Draft Test Tolerance analysis FR2 RLM Peak Test cases	16.6.0
2020-12	RAN#90	R5-206848	0170	1	F	Add Draft Test Tolerance analysis for FR2 Intra-freq Event-trig Test cases	16.6.0
2020-12	RAN#90	R5-206849	0171	1	F	Update Draft Test Tolerance analysis for FR2 Inter-freq Event-trig Test cases	16.6.0
2020-12	RAN#90	R5-206850	0172	1	F	Update Draft Test Tolerance analysis for FR2 Intra-freq SS-RSRP Test case	16.6.0
2020-12	RAN#90	R5-206851	0173	1	F	Add Draft Test Tolerance analysis for FR2 Inter-freq SS-RSRP Test case	16.6.0
2020-12	RAN#90	R5-206852	0182	1	F	Update of FR1 TT analysis for 6.1.1.1 intra-freq cell re-selection	16.6.0
2020-12	RAN#90	R5-206911	0165	1	F	TT analysis for RRM 8.5.2.3.2	16.6.0
2021-03	RAN#91	R5-210431	0193	-	F	Test tolerance analysis for 7.4.3.1 and 5.4.3.1	16.7.0
2021-03	RAN#91	R5-210438	0195	-	F	Update TT analyses for FR2 iRAT measurement accuracy test cases	16.7.0
2021-03	RAN#91	R5-210445	0197	-	F	Update SS-RSRQ measurement accuracy TT analyses for SNR uncertainty change	16.7.0
2021-03	RAN#91	R5-210815	0203	-	F	Update Test Tolerance analyses for FR2 Tx Timing Test cases	16.7.0
2021-03	RAN#91	R5-210817	0204	-	F	Update Test Tolerance analyses for FR2 RLM Test cases	16.7.0
2021-03	RAN#91	R5-210818	0205	-	F	Update Test Tolerance analyses for FR2 Event-Trig Test cases	16.7.0
2021-03	RAN#91	R5-210819	0206	-	F	Update Test Tolerance analyses for FR2 SS-RSRP Test cases	16.7.0
2021-03	RAN#91	R5-210820	0207	-	F	Update Test Tolerance analyses for FR1 RLM Test cases	16.7.0
2021-03	RAN#91	R5-210846	0210	-	F	Update of grouping of test cases in clause 8	16.7.0
2021-03	RAN#91	R5-211175	0216	-	F	FR2 Minimum output power measurement uncertainty update	16.7.0
2021-03	RAN#91	R5-211191	0218	-	F	CR to 38.903 on PC1 Measurement Grid MUs	16.7.0
2021-03	RAN#91	R5-211642	0194	1	F	Test tolerance analysis for 4.5.7.1	16.7.0
2021-03	RAN#91	R5-211643	0196	1	F	Update SS-RSRP measurement accuracy TT analyses for SNR uncertainty change	16.7.0
2021-03	RAN#91	R5-211644	0199	1	F	Update RRM MU values for FR2	16.7.0
2021-03	RAN#91	R5-211645	0211	1	F	Update of FR1 TT for SCell activation	16.7.0
2021-03	RAN#91	R5-211646	0212	1	F	Update of FR1 TT for SSB based link recovery	16.7.0
2021-03	RAN#91	R5-211647	0213	1	F	Update of FR1 TT for CSI-RS based link recovery	16.7.0
2021-03	RAN#91	R5-211648	0214	1	F	Update of FR1 TT for RRC re-establishment	16.7.0
2021-03	RAN#91	R5-211649	0219	1	F	Update of Test Tolerance analysis for FR1 event triggered reporting test cases	16.7.0
2021-03	RAN#91	R5-211650	0220	1	F	Update of Test Tolerance analysis for FR1 SSB-based L1-RSRP test cases	16.7.0
2021-03	RAN#91	R5-211651	0221	1	F	Update of Test Tolerance analysis for FR1 CSI-RS based L1-RSRP test cases	16.7.0
2021-03	RAN#91	R5-211652	0224	1	F	Test Tolerance analysis for FR2 event triggered reporting test cases	16.7.0
2021-03	RAN#91	R5-211732	0202	1	F	Editorial correction to several MU factors	16.7.0
2021-03	RAN#91	R5-211892	0198	1	F	Correct 6.3.1.1 TT analysis	16.7.0
2021-03	RAN#91	R5-211930	0191	1	F	Adjacent Channel Selectivity FR2 MU definition in 38.903	16.7.0
2021-03	RAN#91	R5-211931	0192	1	F	In-band Blocking FR2 MU definition in 38.903	16.7.0
2021-03	RAN#91	R5-211932	0208	1	F	Update on FR2 Blocking Test MU	16.7.0
2021-03	RAN#91	R5-211933	0209	1	F	Update MU for FR2 RRM	16.7.0
2021-03	RAN#91	R5-211934	0215	1	F	Update FR2 MU and TT in 38.903	16.7.0
2021-03	RAN#91	R5-211935	0217	1	F	CR to 38.903 on ETC Testing	16.7.0
2021-03	RAN#91	R5-211936	0222	1	F	Update of demod SNR testability	16.7.0
2021-06	RAN#92	R5-212352	0230	-	F	ACS and IBB - FR2 MU definition in 38.903	16.8.0
2021-06	RAN#92	R5-213851	0228	1	F	Update of demod SNR testability	16.8.0
2021-06	RAN#92	R5-213852	0237	1	F	Measurement uncertainties for FR2 Relative and aggregate power tolerance	16.8.0
2021-06	RAN#92	R5-213940	0225	1	F	Update TT analysis for 5.7.1.1	16.8.0
2021-06	RAN#92	R5-213941	0226	1	F	New TT analysis for 5.7.2.1	16.8.0
2021-06	RAN#92	R5-213942	0227	1	F	New TT analysis for 5.7.3.1	16.8.0
2021-06	RAN#92	R5-213943	0235	1	F	Test Tolerance analysis for FR2 event triggered reporting test cases	16.8.0

2021-06	RAN#92	R5-213944	0236	1	F	Test Tolerance analysis for FR2 event triggered reporting test cases	16.8.0
2021-06	RAN#92	R5-213945	0239	1	F	Update of ACLR testability	16.8.0
2021-06	RAN#92	R5-214069	0234	1	F	Measurement Uncertainties updates for FR2 Extreme Testing Conditions	16.8.0
2021-06	RAN#92	R5-214114	0231	1	F	Add Test Tolerance analyses for FR2 RLM Test cases	16.8.0
2021-06	RAN#92	R5-214115	0232	1	F	Update and add Test Tolerance analysis for FR2 Intra-freq Event-trig Test cases	16.8.0
2021-06	RAN#92	R5-214116	0233	1	F	Update Test Tolerance analysis for FR2 Inter-freq SS-RSRP Test case	16.8.0
2021-09	RAN#93	R5-214189	0240	-	F	TT analysis for RRM test cases 5.7.2.2 and 7.7.2.2	16.9.0
2021-09	RAN#93	R5-214190	0241	-	F	TT analysis for RRM test cases 5.7.3.2 and 7.7.3.2	16.9.0
2021-09	RAN#93	R5-214919	0247	-	F	Update TT analysis for RRM test cases 5.7.1.2 and 7.7.1.2	16.9.0
2021-09	RAN#93	R5-215002	0248	-	F	TT analysis for LTE SA TC 8.5.1.1-SFTD accuracy	16.9.0
2021-09	RAN#93	R5-215330	0250	-	F	Correction to MU for spurious emission band UE co-existence	16.9.0
2021-09	RAN#93	R5-215433	0252	-	F	Correction of Test Tolerance analysis for FR2 event triggered reporting in DRX test cases	16.9.0
2021-09	RAN#93	R5-215834	0255	1	F	Introduction of MTSU mapping related to Max Device Size	16.9.0
2021-09	RAN#93	R5-216102	0242	1	F	Update of demod SNR testability	16.9.0
2021-09	RAN#93	R5-216103	0243	1	F	Add Test Tolerance analyses for EN-DC FR2 interruptions at transitions between active and non-active during DRX Test cases	16.9.0
2021-09	RAN#93	R5-216104	0244	1	F	Introducing EIRP UL Absolute Power MU for FR2 RRM	16.9.0
2021-09	RAN#93	R5-216105	0249	1	F	Correction of power control in 38.903	16.9.0
2021-09	RAN#93	R5-216117	0256	1	F	38.903 CR FR2 ETC MU updates for new ETC test cases	16.9.0
2021-09	RAN#93	R5-216362	0251	1	F	Correction of Test Tolerance analysis for FR2 event triggered reporting in non-DRX test cases	16.9.0
2021-09	RAN#93	R5-216363	0253	1	F	Test Tolerance analysis for FR2 SSB-based L1-RSRP measurement for beam reporting test cases	16.9.0
2021-12	RAN#94	R5-218208	0280	-	F	Correct TT analysis for TC 5.7.3.2 and 7.7.3.2	16.10.0
2021-12	RAN#94	R5-218242	0270	1	F	TT analysis for Mob_enh RRM TC 6.3.1.9+6.3.1.10	16.10.0
2021-12	RAN#94	R5-218262	0275	1	F	Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases	16.10.0
2021-12	RAN#94	R5-218295	0272	1	F	Addition of test tolerance analysis for test cases of EN-DC FR1 DL Interruptions at switching between two uplink carriers	16.10.0
2021-12	RAN#94	R5-218330	0261	1	F	TT analysis for PS RRM TC 6.1.1.3	16.10.0
2021-12	RAN#94	R5-218331	0262	1	F	TT analysis for PS RRM TC 6.1.1.4	16.10.0
2021-12	RAN#94	R5-218332	0263	1	F	TT analysis for PS RRM TC 6.1.1.5	16.10.0
2021-12	RAN#94	R5-218333	0264	1	F	TT analysis for PS RRM TC 6.1.1.6	16.10.0
2021-12	RAN#94	R5-218334	0273	1	F	Addition of test tolerance analysis for test cases of inter-RAT cell re-selection with relaxed measurement criterion	16.10.0
2021-12	RAN#94	R5-218337	0265	1	F	TT analysis for SRVCC RRM TC 6.3.1.6	16.10.0
2021-12	RAN#94	R5-218338	0266	1	F	TT analysis for SRVCC RRM TC 6.6.5.1	16.10.0
2021-12	RAN#94	R5-218353	0269	1	F	TT analysis for HST RRM TC 6.1.2.5	16.10.0
2021-12	RAN#94	R5-218354	0276	1	F	Test Tolerance analysis for SA FR1 - E-UTRAN event-triggered reporting in DRX for HST	16.10.0
2021-12	RAN#94	R5-218355	0277	1	F	Test Tolerance analysis for E-UTRA - NR FR1 Cell reselection tests for HST	16.10.0
2021-12	RAN#94	R5-218356	0278	1	F	Test Tolerance analysis for SA FR1 - E-UTRAN event-triggered reporting in DRX for HST	16.10.0
2021-12	RAN#94	R5-218394	0257	1	F	TT analysis for Mob_enh RRM TC 6.3.1.7+6.3.1.8	16.10.0
2021-12	RAN#94	R5-218395	0258	1	F	TT analysis for Mob_enh RRM TC 6.3.3.1	16.10.0
2021-12	RAN#94	R5-218396	0259	1	F	TT analysis for Mob_enh RRM TC 6.3.3.2	16.10.0
2021-12	RAN#94	R5-218397	0267	1	F	TT analysis for HST RRM TC 4.6.1.7+6.6.1.7	16.10.0
2021-12	RAN#94	R5-218398	0268	1	F	TT analysis for HST RRM TC 4.6.4.5+6.6.4.5	16.10.0
2021-12	RAN#94	R5-218402	0274	1	F	MU for Tx modulation quality test cases	16.10.0
2021-12	RAN#94	R5-218408	0279	1	F	38.903 Beam correspondence Measurement Uncertainties	16.10.0
2021-12	RAN#94	-	-	-	-	missing attachment file added	16.10.1
2022-03	RAN#95	R5-220281	0285	-	F	Test Tolerance analysis for FR1 CLI-RSSI measurement with non-DRX	16.11.0
2022-03	RAN#95	R5-220718	0289	-	F	TT analysis for FR2 SSB intra-freq measurement with DRX TCs	16.11.0
2022-03	RAN#95	R5-220994	0295	-	F	Addition of test tolerance analysis for 4.6.7.1 and 6.6.8.1 EN-DC and NR SA CSI-RS based L1-SINR measurement	16.11.0
2022-03	RAN#95	R5-220995	0296	-	F	Addition of test tolerance analysis for 4.6.7.2 EN-DC SSB based L1-SINR measurement	16.11.0
2022-03	RAN#95	R5-220996	0297	-	F	Addition of test tolerance analysis for 4.6.7.3 EN-DC CSI-RS based L1-SINR measurement	16.11.0
2022-03	RAN#95	R5-220997	0298	-	F	Addition of test tolerance analysis for 6.6.8.2 NR SA SSB based L1-SINR measurement	16.11.0
2022-03	RAN#95	R5-220998	0299	-	F	Addition of test tolerance analysis for 6.6.8.3 NR SA CSI-RS based L1-SINR measurement	16.11.0
2022-03	RAN#95	R5-221286	0302	-	F	Test Tolerance analysis for E-UTRA - NR FR1 Cell reselection tests for HST	16.11.0
2022-03	RAN#95	R5-221287	0303	-	F	Test Tolerance analysis for inter-frequency RRC re-establishment test case	16.11.0

2022-03	RAN#95	R5-221304	0305	-	F	Correction of clause 3	16.11.0
2022-03	RAN#95	R5-221629	0301	1	F	38.903 Beam correspondence Measurement Uncertainties	16.11.0
2022-03	RAN#95	R5-221644	0304	1	F	Test Tolerance analysis for inter-frequency RRC re-establishment test case	16.11.0
2022-03	RAN#95	R5-221647	0281	1	F	TT analysis for Mob_enh RRM TC 6.3.1.9+6.3.1.10	16.11.0
2022-03	RAN#95	R5-221648	0284	1	F	TT analysis for Mob_enh RRM TC 6.3.1.11+6.3.1.12	16.11.0
2022-03	RAN#95	R5-221649	0290	1	F	TT analysis for Mob_enh RRM TCs 7.3.1.4 and 7.3.1.5	16.11.0
2022-03	RAN#95	R5-221656	0294	1	F	Add Test Tolerance analyses for NR SA FR1 cell re-selection for UE configured with highSpeedMeasFlag-r16 Test cases	16.11.0
2022-03	RAN#95	R5-221743	0286	1	F	FR2 EVM MU definition in 38.903	16.11.0
2022-03	RAN#95	R5-221744	0287	1	F	TT analysis for FR2 SSB based BFD TCs	16.11.0
2022-03	RAN#95	R5-221745	0288	1	F	TT analysis for FR2 SSB intra-freq measurement without DRX TCs	16.11.0
2022-03	RAN#95	R5-221746	0292	1	F	Addition of summary table for MU factors	16.11.0
2022-03	RAN#95	R5-221747	0300	1	F	Update of predicted SNR upper bound for noise free SDR scenarios	16.11.0
2022-03	RAN#95	R5-221814	0291	1	F	TT analysis for Mob_enh RRM TCs 7.3.3.1	16.11.0
2022-03	RAN#95	R5-221840	0293	1	F	Addition of TT analysis for FR2 BFR test cases	16.11.0
2022-06	RAN#96	R5-223608	0306	1	F	Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in non-DRX	16.12.0
2022-06	RAN#96	R5-223609	0320	1	F	Test Tolerance analysis for FR2 CSI-RS based L1-RSRP measurement for beam reporting test cases	16.12.0
2022-06	RAN#96	R5-223708	0315	1	F	Addition of test tolerance analysis for 5.6.6.3	16.12.0
2022-06	RAN#96	R5-223709	0317	1	F	Addition of test tolerance analysis for 7.6.6.3	16.12.0
2022-06	RAN#96	R5-223865	0308	1	F	TT analysis for RRM test case 5.7.4.1 and 5.7.4.2	16.12.0
2022-06	RAN#96	R5-223866	0318	1	F	Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2	16.12.0
2022-06	RAN#96	R5-223883	0313	1	F	Addition of test tolerance analysis for 5.6.6.1 and 7.6.6.1	16.12.0
2022-06	RAN#96	R5-223884	0314	1	F	Addition of test tolerance analysis for 5.6.6.2	16.12.0
2022-06	RAN#96	R5-223885	0316	1	F	Addition of test tolerance analysis for 7.6.6.2	16.12.0
2022-09	RAN#97	R5-223964	0322	-	F	TT analysis for 5.7.1.3 and 7.7.1.3	16.13.0
2022-09	RAN#97	R5-223975	0324	-	F	TT analysis for 4.3.2.2.3	16.13.0
2022-09	RAN#97	R5-224412	0338	-	F	Introduction of NR positioning test cases information	16.13.0
2022-09	RAN#97	R5-224521	0341	-	F	TT analysis for NR SL RRM TC 9.1.1.1 - GNSS	16.13.0
2022-09	RAN#97	R5-224522	0342	-	F	TT analysis for NR SL RRM TC 9.1.1.2 - SyncRef UE	16.13.0
2022-09	RAN#97	R5-224523	0343	-	F	TT analysis for NR SL RRM TC 9.1.1.3 - gNB	16.13.0
2022-09	RAN#97	R5-224524	0344	-	F	TT analysis for NR SL RRM TC 9.1.2.1 - S-SSB Tx gNB	16.13.0
2022-09	RAN#97	R5-224525	0345	-	F	TT analysis for NR SL RRM TC 9.1.2.2 - S-SSB Tx SyncRef UE	16.13.0
2022-09	RAN#97	R5-224526	0346	-	F	TT analysis for NR SL RRM TC 9.1.3.1 - GNSS highest priority	16.13.0
2022-09	RAN#97	R5-224527	0347	-	F	TT analysis for NR SL RRM TC 9.1.3.2 - Cell highest priority	16.13.0
2022-09	RAN#97	R5-224528	0348	-	F	TT analysis for NR SL RRM TC 9.1.4.1 - resource selection	16.13.0
2022-09	RAN#97	R5-224529	0349	-	F	TT analysis for NR SL RRM TC 9.1.4.2 - resource pre-emption	16.13.0
2022-09	RAN#97	R5-224531	0351	-	F	TT analysis for NR SL RRM TC 9.1.5.x - CBR	16.13.0
2022-09	RAN#97	R5-224532	0352	-	F	TT analysis for NR SL RRM TC 9.1.6.1 - WAN interruption	16.13.0
2022-09	RAN#97	R5-224777	0365	-	F	Addition of TT information for 6.5.5.5 and 6.5.5.6	16.13.0
2022-09	RAN#97	R5-225137	0367	-	F	Test Tolerances for Intra-frequency SS-RSRP measurement accuracy tests in FR2	16.13.0
2022-09	RAN#97	R5-225612	0370	1	F	Test Tolerances for DL Interruptions at switching between two uplink carriers test cases	16.13.0
2022-09	RAN#97	R5-225616	0326	1	F	TT analysis for positioning test case 15.2.1 and 15.2.2	16.13.0
2022-09	RAN#97	R5-225618	0321	1	F	Add Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS in DRX	16.13.0
2022-09	RAN#97	R5-225625	0329	1	F	Addition of test tolerance analysis for 4.7.7.1.2 and 6.7.9.1.2 FR1 L1-SINR relative measurement accuracy	16.13.0
2022-09	RAN#97	R5-225626	0333	1	F	Addition of test tolerance analysis for 7.7.6.2 NR FR2 L1-SINR measurement accuracy test	16.13.0
2022-09	RAN#97	R5-225627	0334	1	F	Addition of test tolerance analysis for 7.7.6.3 NR FR2 L1-SINR measurement accuracy test	16.13.0
2022-09	RAN#97	R5-225636	0366	1	F	TT analysis update for FR2 RLM test cases 5.5.1.x and 7.5.1.x	16.13.0
2022-09	RAN#97	R5-225637	0368	1	F	Test Tolerances for SSB based L1-RSRP measurement accuracy tests in FR2	16.13.0
2022-09	RAN#97	R5-225638	0369	1	F	Test Tolerances for FR2 CSI-RS based L1-RSRPSS-RSRP measurement accuracy tests in FR2	16.13.0
2022-09	RAN#97	R5-225663	0327	1	F	Measurement uncertainties for test case 6.2.4_1 Configured transmitted power with Power Boost	16.13.0
2022-09	RAN#97	R5-225671	0335	1	F	PC1 MU - definition for MOP in 38.903	16.13.0
2022-09	RAN#97	R5-225672	0336	1	F	PC1 MU - definition for REFSENS in 38.903	16.13.0
2022-09	RAN#97	R5-225673	0337	1	F	PC1 MU - General Update in 38.903 section B.2.2	16.13.0
2022-09	RAN#97	R5-225674	0359	1	F	Definition of PC1 MU	16.13.0
2022-09	RAN#97	R5-225675	0360	1	F	Update FR2 TRx MU in 38.903	16.13.0
2022-09	RAN#97	R5-225694	0328	1	F	Addition of test tolerance analysis for 4.7.7.1.1 and 6.7.9.1.1 EN-DC FR1 L1-SINR absolute accuracy tests	16.13.0
2022-09	RAN#97	R5-225695	0330	1	F	Addition of test tolerance analysis for 4.7.7.2 and 6.7.9.2 FR1 L1-SINR absolute measurement accuracy	16.13.0

2022-09	RAN#97	R5-225696	0331	1	F	Addition of test tolerance analysis for 4.7.7.3.1 and 6.7.9.3.1 FR1 L1-SINR absolute measurement accuracy	16.13.0
2022-09	RAN#97	R5-225697	0332	1	F	Addition of test tolerance analysis for 4.7.7.3.2 and 6.7.9.3.2 EN-DC FR1 L1-SINR absolute measurement accuracy	16.13.0
2022-09	RAN#97	R5-225854	0350	1	F	TT analysis for NR SL RRM TC 9.1.4.3 - resource re-evaluation	16.13.0
2022-09	RAN#97	R5-225860	0353	1	F	TT analysis for NR PS RRM TC 7.1.1.3 - intra-freq reselection low mobility	16.13.0
2022-09	RAN#97	R5-225861	0354	1	F	TT analysis for NR PS RRM TC 7.1.1.4 - intra-freq reselection not-at-cell-edge	16.13.0
2022-09	RAN#97	R5-225862	0355	1	F	TT analysis for NR PS RRM TC 7.1.1.5 - inter-freq reselection low mobility	16.13.0
2022-09	RAN#97	R5-225863	0356	1	F	TT analysis for NR PS RRM TC 7.1.1.6 - inter-freq reselection not-at-cell-edge	16.13.0
2022-09	RAN#97	R5-225867	0357	1	F	TT analysis for NR SA FR2 RRM TC 7.1.1.1 - intra-freq reselection	16.13.0
2022-09	RAN#97	R5-225868	0358	1	F	TT analysis for NR SA FR2 RRM TC 7.1.1.2 - inter-freq reselection	16.13.0
2022-09	RAN#97	R5-225873	0361	1	F	Addition of TT analysis for eMIMO L1-SINR test case 5.7.6.1 and 7.7.6.1	16.13.0
2022-09	RAN#97	R5-225874	0362	1	F	Addition of TT analysis for eMIMO L1-SINR test case 5.7.6.2	16.13.0
2022-09	RAN#97	R5-225875	0363	1	F	Addition of TT analysis for eMIMO L1-SINR test case 5.7.6.3	16.13.0
2022-09	RAN#97	R5-225879	0323	1	F	TT analysis for TS 37.571-1 TC 14.2.1	16.13.0
2022-09	RAN#97	R5-225880	0325	1	F	TT analysis for TS 37.571-1 TC 14.3.1	16.13.0
2022-12	RAN#98	R5-225939	0372	-	F	TT analysis for positioning test case 15.2.3	16.14.0
2022-12	RAN#98	R5-225940	0373	-	F	TT analysis for positioning test case 15.2.4	16.14.0
2022-12	RAN#98	R5-225941	0374	-	F	TT analysis for positioning test case 15.3.1	16.14.0
2022-12	RAN#98	R5-225942	0375	-	F	TT analysis for positioning test case 15.3.2	16.14.0
2022-12	RAN#98	R5-226101	0378	-	F	PC1 MU - definition for Frequency error in 38.903	16.14.0
2022-12	RAN#98	R5-226213	0408	-	F	TT analysis for Interruption TCs	16.14.0
2022-12	RAN#98	R5-226214	0409	-	F	TT analysis for SCell activation TCs	16.14.0
2022-12	RAN#98	R5-226375	0410	-	F	Test tolerance analysis for FR2 RRC-based DL active BWP switch	16.14.0
2022-12	RAN#98	R5-226534	0438	-	F	Update of MU for PC1 Demod	16.14.0
2022-12	RAN#98	R5-226642	0439	-	F	Capturing simulation results to derive the maximum testable SNR	16.14.0
2022-12	RAN#98	R5-227646	0440	2	F	PC1 update to Demod SNR range calculator	16.14.0
2022-12	RAN#98	R5-227821	0437	1	F	Update of MU for PC1 RRM	16.14.0
2022-12	RAN#98	R5-227822	0447	1	F	40cm QoQZ and XPD MU in 38.903	16.14.0
2022-12	RAN#98	R5-227841	0448	1	F	Test Tolerances for FR2 SRS-RSRP measurement in non-DRX	16.14.0
2022-12	RAN#98	R5-227842	0449	1	F	Test Tolerances for EN-DC FR2 SRS-RSRP measurement accuracy	16.14.0
2022-12	RAN#98	R5-227869	0441	1	F	Addition of TT analysis for 7.5.2.1	16.14.0
2022-12	RAN#98	R5-227967	0376	1	F	PC1 MU - definition for ACLR in 38.903	16.14.0
2022-12	RAN#98	R5-227968	0377	1	F	PC1 MU - definition for ACS in 38.903	16.14.0
2022-12	RAN#98	R5-227969	0380	1	F	PC1 MU - definition for MOP in 38.903	16.14.0
2022-12	RAN#98	R5-227970	0382	1	F	PC1 MU - definition for OFF power in 38.903	16.14.0
2022-12	RAN#98	R5-227971	0383	1	F	PC1 MU - definition for REFSENS in 38.903	16.14.0
2022-12	RAN#98	R5-227972	0384	1	F	PC1 MU - definition for SEM in 38.903	16.14.0
2022-12	RAN#98	R5-227973	0385	1	F	PC1 MU - General Update in 38.903 section B.2.2	16.14.0
2022-12	RAN#98	R5-227974	0443	1	F	Test Tolerances for Idle mode CA/DC measurement FR1 test case	16.14.0
2022-12	RAN#98	R5-227989	0442	1	F	Definition of PC1 MU	16.14.0
2022-12	RAN#98	R5-228009	0433	1	F	Update TT analysis for TC 14.2.1	16.14.0
2022-12	RAN#98	R5-228010	0434	1	F	Update TT analysis for TC 14.3.1	16.14.0
2022-12	RAN#98	R5-228011	0435	1	F	New TT analysis for TC 14.2.2	16.14.0
2022-12	RAN#98	R5-228012	0436	1	F	New TT analysis for TC 14.3.2	16.14.0
2022-12	RAN#98	R5-226428	0420	-	F	TT analysis for RedCap RRM TC 16.4.1.1 and 16.4.1.2 - Tx timing	17.0.0
2022-12	RAN#98	R5-226434	0426	-	F	TT analysis for RedCap RRM TC 17.3.2.1.1 - intra reestablish	17.0.0
2022-12	RAN#98	R5-226435	0427	-	F	TT analysis for RedCap RRM TC 17.3.2.1.2 - inter reestablish	17.0.0
2022-12	RAN#98	R5-226436	0428	-	F	TT analysis for RedCap RRM TC 17.5.1.1 - OOS non-DRX	17.0.0
2022-12	RAN#98	R5-226437	0429	-	F	TT analysis for RedCap RRM TC 17.5.1.2 - IS non-DRX	17.0.0
2022-12	RAN#98	R5-226438	0430	-	F	TT analysis for RedCap RRM TC 17.5.1.4 - IS DRX	17.0.0
2022-12	RAN#98	R5-226439	0431	-	F	TT analysis for RedCap RRM TC 17.6.1.1 - no gap non-DRX	17.0.0
2022-12	RAN#98	R5-227846	0411	1	F	TT analysis for RedCap RRM TC 16.3.1.8 - inter-RAT HO 2 Rx	17.0.0
2022-12	RAN#98	R5-227847	0412	1	F	TT analysis for RedCap RRM TC 16.3.1.10 - inter-RAT blind HO 2 Rx	17.0.0
2022-12	RAN#98	R5-227848	0413	1	F	TT analysis for RedCap RRM TC 16.3.2.1.2 - intra reestablish 2 Rx	17.0.0
2022-12	RAN#98	R5-227849	0414	1	F	TT analysis for RedCap RRM TC 16.3.2.1.4 - inter reestablish 2 Rx	17.0.0
2022-12	RAN#98	R5-227850	0415	1	F	TT analysis for RedCap RRM TC 16.3.2.1.6 - no timing reestablish 2 Rx	17.0.0
2022-12	RAN#98	R5-227851	0416	1	F	TT analysis for RedCap RRM TC 16.3.2.2.2 and 16.3.2.2.4 - 4 step RACH 2 Rx	17.0.0
2022-12	RAN#98	R5-227852	0417	1	F	TT analysis for RedCap RRM TC 16.3.2.2.6 and 16.3.2.2.8 - 2 step RACH 2 Rx	17.0.0
2022-12	RAN#98	R5-227853	0418	1	F	TT analysis for RedCap RRM TC 16.3.2.3.2 and 18.2.2.1 - NR redirection 2 Rx	17.0.0
2022-12	RAN#98	R5-227854	0419	1	F	TT analysis for RedCap RRM TC 16.3.2.3.4 - LTE redirection 2 Rx	17.0.0
2022-12	RAN#98	R5-227855	0421	1	F	TT analysis for RedCap RRM TC 16.5.1.2 - OOS SSB	17.0.0

2022-12	RAN#98	R5-227856	0422	1	F	TT analysis for RedCap RRM TC 16.5.1.4 and 16.5.1.8 - IS SSB	17.0.0
2022-12	RAN#98	R5-227857	0423	1	F	TT analysis for RedCap RRM TC 16.5.2.2 - SSB BFR	17.0.0
2022-12	RAN#98	R5-227858	0424	1	F	TT analysis for RedCap RRM TC 16.6.1.x - intra-freq	17.0.0
2022-12	RAN#98	R5-227859	0425	1	F	TT analysis for RedCap RRM TC 16.6.4.x - SSB L1-RSRP	17.0.0
2022-12	RAN#98	R5-227860	0432	1	F	TT analysis for RedCap RRM TC 18.2.1.1 - L2N HO	17.0.0
2023-03	RAN#99	R5-230030	0450	-	F	TT analysis for positioning test case 14.2.3	17.1.0
2023-03	RAN#99	R5-230031	0451	-	F	TT analysis for positioning test case 14.2.4	17.1.0
2023-03	RAN#99	R5-230033	0453	-	F	TT analysis for positioning test case 14.3.4	17.1.0
2023-03	RAN#99	R5-230034	0454	-	F	TT analysis for positioning test case 16.2.3	17.1.0
2023-03	RAN#99	R5-230180	0465	-	F	PC5 MU - definition for REFSENS test case in 38.903	17.1.0
2023-03	RAN#99	R5-230430	0469	-	F	Addition of test tolerance analysis for 5.5.3.1 EN-DC FR2 SCell activation and deactivation intra-band in non-DRX	17.1.0
2023-03	RAN#99	R5-230434	0471	-	F	Addition of test tolerance analysis for 8.4.2.6 and 8.4.2.7 and 8.4.2.8 NR Inter-RAT event triggered reporting tests for FR2 test cases	17.1.0
2023-03	RAN#99	R5-230517	0473	-	F	TT analysis for RedCap RRM TC 16.3.1.4 - intra unknown HO 2Rx	17.1.0
2023-03	RAN#99	R5-230518	0474	-	F	TT analysis for RedCap RRM TC 16.3.1.6 - inter unknown HO 2Rx	17.1.0
2023-03	RAN#99	R5-230519	0475	-	F	TT analysis for RedCap RRM TC 16.4.3.1 and 16.4.3.2 - TA	17.1.0
2023-03	RAN#99	R5-230520	0476	-	F	TT analysis for RedCap RRM TC 16.5.1.10 and 16.5.1.14 - OOS 2RX	17.1.0
2023-03	RAN#99	R5-230521	0477	-	F	TT analysis for RedCap RRM TC 16.5.1.12 and 16.5.1.16 - IS 2RX	17.1.0
2023-03	RAN#99	R5-230522	0478	-	F	TT analysis for RedCap RRM TC 16.5.2.6 and 16.5.2.8 - BFR 2RX	17.1.0
2023-03	RAN#99	R5-230523	0479	-	F	TT analysis for RedCap RRM TC 16.6.1.x - intra meas 2Rx	17.1.0
2023-03	RAN#99	R5-230524	0480	-	F	TT analysis for RedCap RRM TC 16.6.4.6 and 16.6.4.8 - CSI-RS L1- RSRP 2Rx	17.1.0
2023-03	RAN#99	R5-230525	0481	-	F	TT analysis for RedCap RRM TC 18.3.1.x - FR1 NR meas	17.1.0
2023-03	RAN#99	R5-230531	0482	-	F	TT analysis for RRM enhancement TC 6.5.8.1 - CBW change	17.1.0
2023-03	RAN#99	R5-230925	0491	-	F	New TT analysis for TC 4A.1.1.1	17.1.0
2023-03	RAN#99	R5-230926	0492	-	F	New TT analysis for TC 4A.2.1.1	17.1.0
2023-03	RAN#99	R5-231138	0494	-	F	TT analysis for RedCap RRM TC 16.1.1.4	17.1.0
2023-03	RAN#99	R5-231139	0495	-	F	TT analysis for RedCap RRM TC 16.1.1.6	17.1.0
2023-03	RAN#99	R5-231140	0496	-	F	TT analysis for RedCap RRM TC 16.1.1.8	17.1.0
2023-03	RAN#99	R5-231141	0497	-	F	TT analysis for RedCap RRM TC 16.1.2.2	17.1.0
2023-03	RAN#99	R5-231142	0498	-	F	TT analysis for RedCap RRM TC 16.1.2.4 and 16.1.2.6	17.1.0
2023-03	RAN#99	R5-231147	0499	-	F	TT analysis for Idle mode Inter-RAT CA/DC measurement test case 6.6.15.1	17.1.0
2023-03	RAN#99	R5-231148	0500	-	F	TT analysis for E-UTRA - NR Early Measurement Reporting for NR in FR1 test case 8.2.2.1	17.1.0
2023-03	RAN#99	R5-231345	0502	-	F	Max testable SNR table updates	17.1.0
2023-03	RAN#99	R5-231745	0501	1	F	TT analysis for E-UTRA - NR Early Measurement Reporting for NR in FR2 test case 8.2.2.2	17.1.0
2023-03	RAN#99	R5-231756	0452	1	F	TT analysis for positioning test case 14.3.3	17.1.0
2023-03	RAN#99	R5-231757	0455	1	F	TT analysis for positioning test case 16.2.4	17.1.0
2023-03	RAN#99	R5-231758	0490	1	F	Update TT analysis for TC 14.3.2	17.1.0
2023-03	RAN#99	R5-231762	0472	1	F	TT analysis for RedCap RRM TC 16.3.1.2 - intra known HO 2Rx	17.1.0
2023-03	RAN#99	R5-231763	0493	1	F	TT analysis for RedCap RRM TC 16.1.1.2	17.1.0
2023-03	RAN#99	R5-231765	0487	1	F	Addition of TT analysis for 7.3.1.2	17.1.0
2023-03	RAN#99	R5-231766	0488	1	F	Addition of TT analysis for 7.3.1.3 and 7.3.2.3.1	17.1.0
2023-03	RAN#99	R5-231784	0457	1	F	PC1 MU - definition for ACLR test case in 38.903	17.1.0
2023-03	RAN#99	R5-231785	0459	1	F	PC1 MU - definition for MOP test cases in 38.903	17.1.0
2023-03	RAN#99	R5-231786	0461	1	F	PC1 MU - definition for REFSENS test case in 38.903	17.1.0
2023-03	RAN#99	R5-231787	0463	1	F	PC1 MU - definition for Tx spurious test cases in 38.903	17.1.0
2023-03	RAN#99	R5-231788	0466	1	F	Definition of PC1 MU	17.1.0
2023-03	RAN#99	R5-231844	0460	1	F	PC1 MU - definition for MPR test case in 38.903	17.1.0
2023-03	RAN#99	R5-231849	0458	1	F	PC1 MU - definition for Min power test case in 38.903	17.1.0
2023-03	RAN#99	R5-231850	0464	1	F	PC1 MU - General Update in 38.903 test case section B.2.2	17.1.0
2023-03	RAN#99	R5-231899	0470	1	F	Addition of test tolerance analysis for 8.4.2.5 NR Inter-RAT event triggered reporting tests for FR2 test cases	17.1.0
2023-03	RAN#99	R5-231966	0467	1	F	Update of the uncertainty of the network analyzer	17.1.0
2023-03	RAN#99	R5-231968	0468	1	F	Update of PC1 MU	17.1.0
2023-06	RAN#100	R5-232078	0503	-	F	TT analysis for positioning test case 16.3.2	17.2.0
2023-06	RAN#100	R5-232164	0508	-	F	PC1 MU - definition for ACS Case 1 and IBB test cases in 38.903	17.2.0
2023-06	RAN#100	R5-232308	0513	-	F	Update of Test Tolerance analyses for EN-DC FR2 RLM tests for PSCell configured with CSI-RS-based RLM RS	17.2.0
2023-06	RAN#100	R5-232427	0514	-	F	TT analysis for TC 16.2.1	17.2.0
2023-06	RAN#100	R5-232428	0515	-	F	TT analysis for TC 16.2.2	17.2.0
2023-06	RAN#100	R5-232429	0516	-	F	TT analysis for TC 16.3.1	17.2.0
2023-06	RAN#100	R5-232483	0517	-	F	TT analysis for RedCap RRM TC 17.6.1.2 and 17.6.1.4 intraFreq one AoA	17.2.0
2023-06	RAN#100	R5-232484	0518	-	F	TT analysis for RedCap RRM TC 17.6.1.3 intraFreq two AoAs	17.2.0
2023-06	RAN#100	R5-232485	0519	-	F	TT analysis for RedCap RRM TC 17.6.3.1 and 17.6.3.2 SSB L1RSRP	17.2.0

2023-06	RAN#100	R5-232486	0520	-	F	TT analysis for RedCap RRM TC 17.6.3.3 and 17.6.3.4 CSIRS L1RSRP	17.2.0
2023-06	RAN#100	R5-232487	0521	-	F	TT analysis for RedCap RRM TC 18.3.1.5 interRAT nonPeak	17.2.0
2023-06	RAN#100	R5-232488	0522	-	F	TT analysis for RedCap RRM TC 18.3.1.x interRAT peak	17.2.0
2023-06	RAN#100	R5-232561	0523	-	F	Test Tolerance analysis of FR1 PDC test cases	17.2.0
2023-06	RAN#100	R5-232566	0524	-	F	Test Tolerance analysis of FR2 PDC test cases	17.2.0
2023-06	RAN#100	R5-232631	0525	-	F	Removal of Offsets in B.18	17.2.0
2023-06	RAN#100	R5-232657	0526	-	F	Addition of TT analysis for 4.6.5.1 and 6.6.6.1	17.2.0
2023-06	RAN#100	R5-232676	0529	-	F	Addition of TT analysis for test cases 6.6.3.1 and 6.6.3.2	17.2.0
2023-06	RAN#100	R5-232757	0530	-	F	Correction to test tolerance analysis for 5.6.6.1 and 7.6.6.1	17.2.0
2023-06	RAN#100	R5-233299	0538	-	F	Addition of TT analysis for NR SA FR2 BFD and BFR for RedCap	17.2.0
2023-06	RAN#100	R5-233632	0505	1	F	PC5 MU - definition for MOP test cases in 38.903	17.2.0
2023-06	RAN#100	R5-233633	0535	1	F	Updating for PC6 measurement error contribution descriptions for IFF	17.2.0
2023-06	RAN#100	R5-233639	0506	1	F	FR2 MUs - General Update in 38.903 section B.2.2	17.2.0
2023-06	RAN#100	R5-233640	0509	1	F	FR2 PC3 - Network Analyzer MU update in 38.903	17.2.0
2023-06	RAN#100	R5-233646	0527	1	F	Addition of TT analysis for 4.7.6.1 and 6.7.8.1	17.2.0
2023-06	RAN#100	R5-233653	0511	1	F	Grouping of test tolerance analysis for test Case 5.5.3.7 with 5.5.3.1	17.2.0
2023-06	RAN#100	R5-233659	0534	1	F	Test Tolerance analysis for HST event triggered test cases	17.2.0
2023-06	RAN#100	R5-233664	0504	1	F	TT analysis for FR2 UE UL carrier RRC reconfiguration delay test case	17.2.0
2023-06	RAN#100	R5-233695	0537	1	F	Editorial correction to Annex B	17.2.0
2023-06	RAN#100	R5-233750	0510	1	F	Addition of test tolerance analysis for test Case of 4.5.3.5 EN-DC FR1 direct SCell activation and test Case of 6.5.3.4 NR SA FR1 direct SCell activation	17.2.0
2023-09	RAN#101	R5-233966	0542	-	F	TT analysis for RRM test case 7.5.3.3 - SCell Activation and deactivation for SCell in FR2 inter-band in non-DR	17.3.0
2023-09	RAN#101	R5-233968	0543	-	F	Correction to Grouping of FR2 test case 7.5.11.1	17.3.0
2023-09	RAN#101	R5-233977	0545	-	F	PC5 MU definition in 38.903	17.3.0
2023-09	RAN#101	R5-233982	0547	-	F	Editorial correction Network Analyzer FR2 MU	17.3.0
2023-09	RAN#101	R5-234221	0548	-	F	Addition of missing group information for TS 37.571-1 UE Rx-Tx time difference positioning test cases	17.3.0
2023-09	RAN#101	R5-234339	0550	-	F	Test Tolerance analysis for FR2 PDC test case	17.3.0
2023-09	RAN#101	R5-234345	0551	-	F	Addition of test tolerance analysis for test Case of 6.5.3.5 NR SA FR1 direct SCell activation at handover	17.3.0
2023-09	RAN#101	R5-234346	0552	-	F	Addition of test tolerance analysis for test Case of 7.5.3.4 NR SA FR2 direct SCell activation	17.3.0
2023-09	RAN#101	R5-234347	0553	-	F	Addition of test tolerance analysis for test Case of 7.5.3.5 NR SA FR2 direct SCell activation at handover	17.3.0
2023-09	RAN#101	R5-234349	0554	-	F	Test Tolerances for NR SA FR1 DL interruptions at switching between two uplink carriers for 6.5.7A.2	17.3.0
2023-09	RAN#101	R5-234350	0555	-	F	Test Tolerances for NR SA FR1 DL interruptions at switching between two uplink bands for 6.5.7B.2	17.3.0
2023-09	RAN#101	R5-234387	0556	-	F	Update of Test Tolerance analysis for non-DRX SSB-based RLM In-sync tests in FR2	17.3.0
2023-09	RAN#101	R5-234389	0557	-	F	Update of Test Tolerance analyses for non-DRX CSI-RS-based RLM In-sync tests in FR2	17.3.0
2023-09	RAN#101	R5-234421	0561	-	F	TT analysis for RedCap RRM TC 16.5.1.x_RLM IS 1Rx	17.3.0
2023-09	RAN#101	R5-234422	0562	-	F	TT analysis for RedCap RRM TC 16.5.1.x_RLM OOS 1Rx	17.3.0
2023-09	RAN#101	R5-234423	0563	-	F	TT analysis for RedCap RRM TC 16.6.1.x_intraFreq 1Rx	17.3.0
2023-09	RAN#101	R5-234424	0564	-	F	TT analysis for RedCap RRM TC 16.6.4.1 and 16.6.4.3_SSB L1 RSRP 1Rx	17.3.0
2023-09	RAN#101	R5-234651	0567	-	F	Addition of TT analysis for test case 5.5.1.10	17.3.0
2023-09	RAN#101	R5-234663	0568	-	F	Addition of TTs for RedCap RLM OOS test cases 16.5.1.5 and 16.5.1.6	17.3.0
2023-09	RAN#101	R5-234665	0569	-	F	Addition of TTs for RedCap BFR test case 16.5.2.4	17.3.0
2023-09	RAN#101	R5-234666	0570	-	F	Addition of TTs for RedCap BFR test cases 16.5.2.3	17.3.0
2023-09	RAN#101	R5-234668	0571	-	F	Addition of TTs for RedCap BWP Switch test cases 16.5.3.1.1 and 16.5.3.1.2	17.3.0
2023-09	RAN#101	R5-234669	0572	-	F	Addition of TTs for RedCap BWP Switch test cases 16.5.3.2.1 and 16.5.3.2.2	17.3.0
2023-09	RAN#101	R5-234670	0573	-	F	Update to TT analysis for L2N latency test cases 8.4.2.x and 18.3.1.x	17.3.0
2023-09	RAN#101	R5-234678	0574	-	F	Addition of TT analysis for TCI state switch test cases 7.5.8.1.1 and 7.5.8.2.1	17.3.0
2023-09	RAN#101	R5-234882	0576	-	F	Addition of TT analysis for FeMIMO RRM TC 4.5.5.8	17.3.0
2023-09	RAN#101	R5-234966	0582	-	F	Test Tolerance for NR SA FR1 Cell reselection RedCap test case 16.1.1.5	17.3.0
2023-09	RAN#101	R5-234967	0583	-	F	Test Tolerance for NR SA FR1 Cell reselection RedCap test case 16.1.1.7	17.3.0
2023-09	RAN#101	R5-234969	0585	-	F	Test Tolerance for NR - E-UTRA FR1 Cell reselection RedCap test cases 16.1.2.3	17.3.0

2023-09	RAN#101	R5-234970	0586	-	F	Test Tolerance for NR - E-UTRA FR1 Cell reselection RedCap test case 16.1.2.5	17.3.0
2023-09	RAN#101	R5-235103	0587	-	F	TT analysis for FR1 Power saving Enh test cases 4.5.1.9 and 6.5.1.9	17.3.0
2023-09	RAN#101	R5-235104	0588	-	F	TT analysis for FR2 Power saving Enh test case 5.5.5.9	17.3.0
2023-09	RAN#101	R5-235461	0577	2	F	Addition of TT analysis for FeMIMO RRM TC 5.5.5.8& 7.5.5.9	17.3.0
2023-09	RAN#101	R5-235462	0579	2	F	Addition of TT analysis for FeMIMO RRM TC 7.5.5.10	17.3.0
2023-09	RAN#101	R5-235467	0549	2	F	Update to Demod SNR calculator for Agg BW up to 400MHz	17.3.0
2023-09	RAN#101	R5-235731	0560	1	F	TT analysis for RedCap RRM TC 16.3.1.x_intra and inter freq HO 1Rx	17.3.0
2023-09	RAN#101	R5-235732	0565	1	F	TT analysis for RedCap RRM TC 16.6.4.5 and 16.6.4.7_CSIRS L1 RSRP 1Rx	17.3.0
2023-09	RAN#101	R5-235736	0589	1	F	Addition of TT analysis grouping for test cases 5.5.9.1.1 and 7.5.9.1.1 to Table 8-2	17.3.0
2023-09	RAN#101	R5-235737	0590	1	F	Addition of TT analysis grouping for test cases 5.5.9.2.1 and 7.5.9.2.1 to Table 8-2	17.3.0
2023-09	RAN#101	R5-235740	0540	1	F	Addition of TT analysis for gap enhancement RRM test cases 6.6.18.1 and 6.6.18.2	17.3.0
2023-09	RAN#101	R5-235743	0566	1	F	TT analysis for FR1 L1 RSRP relative accuracy TCs	17.3.0
2023-09	RAN#101	R5-235751	0544	1	F	FR2c MU definition in 38.903	17.3.0
2023-09	RAN#101	R5-235920	0584	1	F	Test Tolerance for NR - E-UTRA FR1 Cell reselection RedCap test case 16.1.2.1	17.3.0
2023-09	RAN#101	R5-235921	0581	1	F	Test Tolerance for NR SA FR1 Cell reselection RedCap test case 16.1.1.3	17.3.0
2023-09	RAN#101	R5-235923	0575	1	F	Addition of TT analysis for FeMIMO RRM TC 4.5.5.7	17.3.0
2023-09	RAN#101	R5-235925	0578	1	F	Addition of TT analysis for FeMIMO RRM TC 6.5.5.7	17.3.0
2023-09	RAN#101	R5-235930	0541	1	F	Addition of TT analysis for NCSG RRM test cases 6.6.19.1,6.6.19.2, 6.6.19.3 and 6.6.19.4	17.3.0
2023-09	RAN#101	R5-235931	0539	1	F	Addition of TT analysis for MG_enh RRM test cases 6.6.17.1 and 6.6.17.2	17.3.0
2023-12	RAN#102	R5-236250	0609	-	F	Removal of technical content in TR 38.903 v17.3.0 and substitution with pointer to the next Release	17.4.0

History

Document history		
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