Annex B (normative):

Conditions for RRM requirements applicability for operating bands

B.1 Conditions for NR RRC_IDLE state mobility

B.1.1 Introduction

In Annex B.1, the following conditions are specified:

- UE conditions which shall apply for UE intra-frequency measurements procedures and requirements in clause 4,
- UE conditions which shall apply for UE inter-frequency measurements procedures and requirements in clause 4.

B.1.2 Conditions for measurements on NR intra-frequency cells for cell re-selection

This clause defines the following conditions for NR intra-frequency measurements performed based on SSBs for cell re-selection: SSB RP and SSB Es/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.1.2-1 for FR1 NR cells.

The conditions are defined in Table B.1.2-2 for FR2 NR cells.

Table B.1.2-1: Conditions for intra-frequency cell re-selection in FR1

	Minimum	SSB Ês/lot	
NP operating hand groups Note1	dBm /	SCS _{SSB}	
NK operating band groups	SCS _{SSB} = 15 kHz	SCS _{SSB} = 30 kHz	dB
NR_FDD_FR1_A, NR_TDD_FR1_A	-124	-121	
NR_FDD_FR1_B	-123.5	-120.5	
NR_TDD_FR1_C	-123	-120	
NR_FDD_FR1_D, NR_TDD_FR1_D	-122.5	-119.5	× 1
NR_FDD_FR1_E, NR_TDD_FR1_E	-122	-119	≥ -4
NR_FDD_FR1_F	-121.5	-118.5	
NR_FDD_FR1_G	-121	-118	
NR FDD FR1 H	-120.5	-117.5	
	NR_FDD_FR1_B NR_TDD_FR1_C NR_FDD_FR1_D, NR_TDD_FR1_D NR_FDD_FR1_E, NR_TDD_FR1_E NR_FDD_FR1_F NR_FDD_FR1_G	NR operating band groups Note1 SCS _{SSB} = 15 KHz	NR_FDD_FR1_A, NR_TDD_FR1_A -124 -121 NR_FDD_FR1_B -123.5 -120.5 NR_TDD_FR1_C -123 -120 NR_FDD_FR1_D, NR_TDD_FR1_D -122.5 -119.5 NR_FDD_FR1_E, NR_TDD_FR1_E -122 -119 NR_FDD_FR1_F -121.5 -118.5 NR_FDD_FR1_G -121 -118

Table B.1.2-2: Conditions for intra-frequency cell re-selection in FR2

			Minimum SSB_RP Note 2, Note 3					SSB Ês/lot
Parameter	Angle of arrival			dBm / SCS _{SSB} SCS _{SSB} = 120 kHz			SCS _{SSB} = 240 kHz	dB
		barias		UE Pow	er class		UE Power class	u.b
			1	2	3	4	1, 2, 3, 4	
		n257	- 125.3+Y ₁	-110.8	-109.1	- 124.8+Y ₄		
	D D	n258	- 125.3+Y ₁	-110.8	-109.1	- 124.8+Y ₄	(Value for SCS _{SSB} = 120 kHz) +3dB	≥-4
	Rx Beam Peak	n259			-105.5			
		n260	- 122.3+Y ₁		-106.5	- 122.8+Y ₄		
Conditions		n261	- 125.3+Y ₁	-110.8	-109.1	- 124.8+Y ₄		
Conditions		n257	- 117.3+Z₁	-99.8	-98.2	- 115.8+Z₄		
	Spherical	n258	- 117.3+Z ₁	-99.8	-98.2	- 115.8+Z₄	(Value for	
	coverage	n259			-92.7		SCS _{SSB} = 120	≥-4
	Note 1	n260	- 114.3+Z ₁		-93.9	- 110.8+Z ₄	kHz) +3dB	
		n261	- 117.3+Z ₁	-99.8	-98.2	- 115.8+Z₄		

- NOTE 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.
- NOTE 2: Values specified at the Reference point to give minimum SSB Es/lot, with no applied noise.
- NOTE 3: For UEs that support multiple FR2 bands, Rx Beam Peak values are increased by ΔMB_{P,n} and Spherical coverage values are increased by ΔMB_{S,n}, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

Editor's notes for Table B.1.2-2:

- The value of Y for Power classes 1 and 4 is FFS, where Y₁ and Y₄ are the rough/fine beam gain differences in Rx beam peak direction for Power classes 1 and 4 respectively
- The value of Z for Power classes 1 and 4 is FFS, where Z₁ and Z₄ are the rough/fine beam gain differences in spherical coverage directions for Power classes 1 and 4 respectively

B.1.3 Conditions for measurements on NR inter-frequency cells for cell re-selection

This clause defines the following conditions for NR inter-frequency measurements performed based on SSBs for cell re-selection: SSB_RP and SSB £s/Iot, applicable for a corresponding operating band.

The conditions defined in Table B.1.2-1 for FR1 NR intra-frequency cell re-selection shall also apply for FR1 NR inter-frequency cells in this clause.

The conditions defined in Table B.1.2-2 for FR2 NR intra-frequency cell re-selection shall also apply for FR2 NR inter-frequency cells in this clause.

B.2 Conditions for UE measurements procedures and performance requirements in RRC_CONNECTED state

B.2.1 Introduction

B.2.1.1 General

In Annex B.2, the following conditions are specified:

- The conditions for RRC connection release with redirection to NR requirements in clause 6.2.3.2.1,
- The conditions for UE transmit timing adjustment in clause 7.1
- UE conditions which shall apply for UE intra-frequency measurements procedures and requirements in clause 9, UE conditions which shall apply for UE inter-frequency measurements procedures and requirements in clause 9,
- UE conditions which shall apply for UE intra-frequency measurements performance requirements in clause 10,
- UE conditions which shall apply for UE inter-frequency measurements performance requirements in clause 10.

B.2.1.2 Derivation of Minimum SSB RP values for FR1

[FFS]

B.2.1.3 Derivation of Minimum SSB RP values for FR2

Editor's note:

- The Assumption for UE beams (fine or rough) in Annex A RRM test cases is defined based on power class 3, and unless otherwise stated also applies for other UE power classes

B.2.1.3.1 Minimum SSB RP values for Rx Beam Peak angle of arrival

Minimum SSB_RP values in Tables B.2.2-2 and B.2.3-2 are based on Reference sensitivity for the Operating band and for the UE power class, taking a baseline of UE Power class 3 in Band n260 with 50 MHz channel bandwidth.

 $\label{eq:minimum_SSB_RP} \begin{aligned} &\text{Minimum SSB_RP} = \text{Reference sensitivity} \,_{PC3,\,n260,\,50\text{MHz}} + Y \, - 10 Log_{10}(PRB_{Refsens} \, x \, \, 12) - SNR_{Refsens} + SSB \, \hat{E}s/Iot \, + \\ &\Delta MB_{P.n.} \end{aligned}$

where:

Reference sensitivity PC3, n260, 50MHz is the reference sensitivity value in dBm specified for power class 3 in Band n260 for 50 MHz Channel bandwidth in Table 7.3.2.3-1 of TS 38.101-2 [19];

Y is the gain difference between fine and rough beams, which is defined in Table B.2.1.3.1-1;

Table B.2.1.3.1-1: Gain difference Y between fine and rough beams, Rx beam peak direction

Value "Y" in dB, for each UE power class							
1 2 3 4							
FFS 9.0 7.0 FFS							

PRB_{Refsens} is N_{RB} associated with subcarrier spacing 120 kHz for 50MHz in TS 38.101-2 [19] Table 5.3.2-1, and is 32;

12 is the number of subcarriers in a PRB;

SNR_{Refsens} is the SNR used for simulation of Refsens and EIS spherical coverage, and is -1 dB;

SSB Ês/Iot is the minimum value required by the UE to perform measurements, and is -6 dB for intra-frequency measurements and -4 dB for inter-frequency measurements. The only contribution to Iot is the UE internal noise;

ΔMB_{P,n} is the UE multi-band relaxation factor value in dB specified in TS 38.101-2 [19] clause 6.2.1.

The calculated Minimum SSB_RP value for the baseline of UE power class 3 in Band n260 is $(-109.5 + \Delta MB_{P,n})$ dBm/120kHz for intra-frequency measurements and $(-107.5 + \Delta MB_{P,n})$ dBm/120kHz for inter-frequency measurements.

The following methodology to define the Minimum SSB_RP level for power class X (PC_X) and operating band Y (Band Y) is used:

For Intra-frequency: Minimum SSB_RP (PC_X, Band_Y) = -109.5 dBm/120kHz + Refsens PC_X, Band_Y, 50MHz - Refsens PC3, n260, 50MHz + Y PC X - Y PC3 + Δ MBP,n,

For Inter-frequency: Minimum SSB_RP (PC_X, Band_Y) = -107.5 dBm/120kHz + Refsens $_{PC_X, Band_Y, 50MHz}$ - Refsens $_{PC_3, n260, 50MHz}$ + Y_{PC_3} - Y_{PC_3} + Y_{PC_3} + Y_{PC_3} - Y_{PC_3} + Y_{PC_3} - Y_{PC_3} + Y_{PC_3} - Y_{PC_3} + Y_{PC_3} - Y_{PC_3}

B.2.1.3.2 Minimum SSB_RP values for angle of arrival within Spherical coverage

Minimum SSB_RP values in Tables B.2.2-2 and B.2.3-2 are based on EIS spherical coverage for the Operating band and for the UE power class, taking a baseline of UE power class 3 in Band n260 with 50 MHz channel bandwidth.

 $\label{eq:minimum_SSB_RP} \begin{aligned} &\text{Minimum SSB_RP} = \text{EIS spherical coverage} \,_{PC3,\,n260,\,50\text{MHz}} \, + Z \, \text{-}\, 10\text{Log}_{10} (PRB_{Refsens} \,\,x \,\,12) - SNR_{Refsens} \, + \, SSB \,\, \hat{E}s/Iot \, + \\ &\Delta MB_{S,n} \end{aligned}$

where:

EIS spherical coverage PC3, n260, 50MHz is the EIS spherical coverage value in dBm specified for power class 3 in Band n260 for 50MHz Channel bandwidth in TS 38.101-2 [19] Table 7.3.4.3-1;

Z is the gain difference between fine and rough beams, and is defined in Table B.2.1.3.2-1;

Table B.2.1.3.2-1: Gain difference Z between fine and rough beams, Spherical coverage directions

Value "Z" in dB, for each UE power class							
1 2 3 4							
FFS	9.0	7.0	FFS				

PRB_{Refsens} is N_{RB} associated with subcarrier spacing 120 kHz for 50MHz in TS 38.101-2 [19] Table 5.3.2-1, and is 32;

12 is the number of subcarriers in a PRB;

SNR_{Refsens} is the SNR used for simulation of Refsens and EIS spherical coverage, and is -1 dB;

SSB Ês/Iot is the minimum value required by the UE to perform measurements, and is -6 dB for intra-frequency measurements and -4 dB for inter-frequency measurements. The only contribution to Iot is the UE internal noise;

ΔMB_{S,n} is the UE multi-band relaxation factor value in dB specified in TS 38.101-2 [19] clause 6.2.1.

The calculated Minimum SSB_RP value for the baseline of UE power class 3 in Band n260 is $(-96.9 + \Delta MB_{S,n})$ dBm/120kHz for intra-frequency measurements and is $(-94.9 + \Delta MB_{S,n})$ dBm/120kHz for inter-frequency measurements.

The following methodology to define the Minimum SSB_RP level for power class X (PC_X) and operating band Y (Band_Y) is used:

For Intra-frequency: Minimum SSB_RP (PC_X, Band_Y) = -96.9 dBm/120kHz + EIS spherical coverage $_{PC_X, Band_Y, 50MHz}$ - EIS spherical coverage $_{PC_X, Band_Y, 50MHz}$

For Inter-frequency: Minimum SSB_RP (PC_X, Band_Y) = -94.9 dBm/120kHz + EIS spherical coverage $_{PC_X, Band_Y, 50MHz}$ - EIS spherical coverage $_{PC_3, n260, 50MHz}$ + Z_{PC_X} - Z_{PC_3} + Z_{PC_3} - Z_{PC_3} + Z_{PC_3} - Z_{PC_3}

B.2.1.4 Gain to SS-RSRP measurement point for FR1

In FR1 conducted requirements are specified at the UE antenna connector, which is also the SS-RSRP measurement point.

B.2.1.5 Gain to SS-RSRP measurement point for FR2

B.2.1.5.1 Gain to SS-RSRP measurement point for Rx Beam Peak angle of arrival

In clause 5.1.1 of TS 38.215 [4] SS-RSRP is defined to be measured based on the combined signal from antenna elements corresponding to a given receiver branch. The reference point for requirement parameters from the UE perspective is the input of the UE antenna array. The gain "G" relates the combined signal from antenna elements corresponding to a given receiver branch to the reference point for requirement parameters.

The gain "G" affects absolute signal level values reported by the UE.

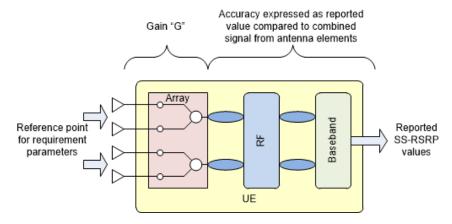


Figure B.2.1.5.1-1: Gain and Reference point for requirement parameters

The gain range for each power class is specified in Table B.2.1.5.1-1.

Table B.2.1.5.1-1: UE gain G, Rx beam peak direction

	UE Power class						
	1 2 3 4						
Minimum, dBi	FFS	FFS	-10	FFS			
Maximum, dBi	FFS	FFS	+20	FFS			

Gain range in spherical coverage directions may be lower than in Rx beam peak direction, according to the difference between the EIS spherical coverage value specified in TS 38.101-2 [19] clause 7.3.4 and the Reference sensitivity level specified in TS 38.101-2 [19] clause 7.3.2.

B.2.2 Conditions for NR intra-frequency measurements

This clause defines the following conditions for NR intra-frequency measurements and corresponding procedures performed based on SSBs: SSB RP and SSB £s/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.2-1 for FR1 NR cells.

The conditions are defined in Table B.2.2-2 for FR2 NR cells.

Table B.2.2-1: Conditions for intra-frequency measurements in FR1

		Minimu	m SSB_RP	SSB Ês/lot
Parameter	NR operating band groups Note1	dBm	/ SCS _{SSB}	
raiailletei	NK operating band groups	SCS _{SSB} = 15 kHz	SCS _{SSB} = 30 kHz	dB
	NR_FDD_FR1_A, NR_TDD_FR1_A, NR_SDL_FR1_A	-127	-124	
	NR_FDD_FR1_B	-126.5	-123.5	
	NR_TDD_FR1_C	-126	-123	
Conditions	NR_FDD_FR1_D, NR_TDD_FR1_D	-125.5	-122.5	≥ -6
	NR_FDD_FR1_E, NR_TDD_FR1_E	-125	-122	
	NR_FDD_FR1_F	-124.5	-121.5	
	NR_FDD_FR1_G	-124	-121	
	NR_FDD_FR1_H	-123.5	-120.5	
NOTE 1: NF	Roperating band groups are defined in clau	se 3.5.2.		·

Table B.2.2-2: Conditions for intra-frequency measurements in FR2

				Minin	1	SSB Ês/lot		
		Angle of arrival NR			dBm / SC	S _{SSB}		
Parameter	Angle of arrival			SCS _{SSB} = 120 kHz				чD
		bands		UE pow	er class		UE power class	dB
			1	2	3	4	1, 2, 3, 4	
		n257	- 128.3+Y ₁	-113.8	-112.1	- 127.8+Y ₄		
	Rx Beam — Peak —	n258	- 128.3+Y ₁	-113.8	-112.1	- 127.8+Y ₄	(Value for SCS _{SSB} = 120 kHz) +3dB	≥-6
		n259			-108.5			
		n260	- 125.3+Y ₁		-109.5	- 125.8+Y ₄		
Conditions		n261	- 128.3+Y ₁	-113.8	-112.1	- 127.8+Y ₄		
Conditions		n257	- 120.3+Z ₁	-102.8	-101.2	- 118.8+Z ₄		
	Spherical	n258	- 120.3+Z ₁	-102.8	-101.2	- 118.8+Z ₄	(Value for	
	coverage	n259			-95.7		SCS _{SSB} = 120	≥-6
	Note 1	n260	- 117.3+Z ₁		-96.9	- 113.8+Z ₄	kHz) +3dB	
		n261	- 120.3+Z ₁	-102.8	-101.2	- 118.8+Z ₄		

Note 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.

Note 2: Values specified at the Reference point to give minimum SSB £s/lot, with no applied noise.

Note 3: For UEs that support multiple FR2 bands, Rx Beam Peak values are increased by ΔMB_{P,n} and spherical coverage values are increased by ΔMB_{S,n}, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

Editor's notes for Table B.2.2-2:

- The value of Y for power classes 1 and 4 is FFS, where Y₁ and Y₄ are the rough/fine beam gain differences in Rx beam peak direction for power classes 1 and 4 respectively
- The value of Z for power classes 1 and 4 is FFS, where Z₁ and Z₄ are the rough/fine beam gain differences in spherical coverage directions for power classes 1 and 4 respectively

B.2.3 Conditions for NR inter-frequency measurements

This clause defines the following conditions for NR inter-frequency measurements and corresponding procedures performed based on SSBs: SSB_RP and SSB £s/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.3-1 for FR1 NR cells.

The conditions are defined in Table B.2.3-2 for FR2 NR cells.

Table B.2.3-1: Conditions for inter-frequency measurements in FR1

		Minimum	SSB Ês/lot	
Parameter	NR operating band groups Note1	SCS _{SSB} = 15 kHz	SCS _{SSB} SCS _{SSB} = 30 kHz	dB
	NR_FDD_FR1_A, NR_TDD_FR1_A, NR_SDL_FR1_A	-125	-122	
	NR_FDD_FR1_B	-124.5	-121.5	
	NR_TDD_FR1_C	-124	-121	
Conditions	NR_FDD_FR1_D, NR_TDD_FR1_D	-124.5	-120.5	≥ -4
	NR_FDD_FR1_E, NR_TDD_FR1_E	-123	-120	
	NR FDD FR1 F	-122.5	-119.5	
	NR_FDD_FR1_G	-122	-119	
	NR_FDD_FR1_H	-121.5	-118.5	
NOTE 1: NF	Roperating band groups are defined in clau	se 3.5.2.		_

Table B.2.3-2: Conditions for inter-frequency measurements in FR2

				Minin	1	SSB Ês/lot		
		ND			dBm / SC	S _{SSB}		
Parameter	Angle of arrival	arrival		SCS _{SSB} =	= 120 kHz		SCS _{SSB} = 240 kHz	dB
		bands		UE pow	er class		UE power class	ав
			1	2	3	4	1, 2, 3, 4	
		n257	- 126.3+Y ₁	-111.8	-110.1	- 125.8+Y ₄		
	Rx Beam — Peak —	n258	- 126.3+Y ₁	-111.8	-110.1	- 125.8+Y ₄	(Value for SCS _{SSB} = 120 kHz) +3dB	≥-4
		n259			-106.5			
		n260	- 123.3+Y ₁		-107.5	- 123.8+Y ₄		
Conditions		n261	- 126.3+Y ₁	-111.8	-110.1	- 125.8+Y ₄		
Conditions		n257	- 118.3+Z ₁	-100.8	-99.2	- 116.8+Z ₄		
	Spherical	n258	- 118.3+Z ₁	-100.8	-99.2	- 116.8+Z ₄	(Value for	
	coverage	n259			-93.7		SCS _{SSB} = 120	≥-4
	Note 1	n260	- 115.3+Z₁		-94.9	- 111.8+Z ₄	kHz) +3dB	
		n261	- 118.3+Z₁	-100.8	-99.2	- 116.8+Z ₄		

NOTE 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.

NOTE 2: Values specified at the Reference point to give minimum SSB Ês/lot, with no applied noise.

NOTE 3: For UEs that support multiple FR2 bands, Rx Beam Peak values are increased by ΔMB_{P,n} and Spherical coverage values are increased by ΔMB_{S,n}, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

Editor's notes for Table B.2.3-2:

- The value of Y for power classes 1 and 4 is FFS, where Y₁ and Y₄ are the rough/fine beam gain differences in Rx beam peak direction for power classes 1 and 4 respectively
- The value of Z for power classes 1 and 4 is FFS, where Z₁, and Z₄ are the rough/fine beam gain differences in spherical coverage directions for power classes 1 and 4 respectively

B.2.4 Conditions for NR L1-RSRP reporting

B.2.4.1 Conditions for SSB based L1-RSRP reporting

This clause defines the following conditions for NR L1-RSRP measurement reporting and corresponding procedures performed based on SSBs: SSB RP and SSB £s/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.4.1-1 for FR1 NR cells.

The conditions are defined in Table B.2.4.1-2 for FR2 NR cells.

Table B.2.4.1-1: Conditions for SSB based L1-RSRP measurements in FR1

		Minimum	SSB Ês/lot	
Parameter	NR operating band groups Note1	dBm / S	SCS _{SSB}	
raiailletei	ian operating band groups	SCS _{SSB} = 15 kHz	SCS _{SSB} = 30 kHz	dB
	NR_FDD_FR1_A, NR_TDD_FR1_A, NR_SDL_FR1_A	-124	-121	
	NR_FDD_FR1_B	-123.5	-120.5	Ì
	NR_TDD_FR1_C	-123	-120	
Conditions	NR_FDD_FR1_D, NR_TDD_FR1_D	-122.5	-119.5	≥ -3
	NR_FDD_FR1_E, NR_TDD_FR1_E	-122	-119	
	NR_FDD_FR1_F	-121.5	-118.5	
	NR_FDD_FR1_G	-121	-118	
	NR_FDD_FR1_H	-120.5	-117.5	
NOTE 1: NF	Roperating band groups are defined in clau	se 3.5.2.		

Table B.2.4.1-2: Conditions for SSB based L1-RSRP measurements in FR2

				Minimum SSB_RP Note 2, Note 3					
		NR		dBm / SCS _{SSB}					
Parameter	Angle of arrival	operating bands		SCS _{SSB} =	= 120 kHz		SCS _{SSB} = 240 kHz	dB	
		Danus		UE pow	er class		UE power class	иь	
			1	2	3	4	1, 2, 3, 4		
		n257	- 125.3+Y ₁	-110.8	-109.1	- 124.8+Y ₄			
	Rx Beam - Peak -	n258	- 125.3+Y ₁	-110.8	-109.1	- 124.8+Y ₄	(Value for SCS _{SSB} = 120 kHz) +3dB	≥-3	
		n259			-105.5				
		n260	- 122.3+Y ₁		-106.5	- 122.8+Y ₄			
Conditions		n261	- 125.3+Y ₁	-110.8	-109.1	- 124.8+Y ₄			
Conditions		n257	- 117.3+Z ₁	-99.8	-98.2	- 115.8+Z₄			
	Spherical	n258	- 117.3+Z ₁	-99.8	-98.2	- 115.8+Z₄	(Value for		
	coverage	n259			-92.7		SCS _{SSB} = 120	≥-3	
	Note 1	n260	- 114.3+Z ₁		-93.9	- 110.8+Z ₄	kHz) +3dB		
NOTE 4 N		n261	- 117.3+Z ₁	-99.8	-98.2	- 115.8+Z ₄	24 0 1401 0: 1	Pre-	

NOTE 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.

NOTE 2: Values specified at the Reference point to give minimum SSB Ês/lot, with no applied noise.

NOTE 3: For UEs that support multiple FR2 bands, $\bar{R}x$ Beam Peak values are increased by $\Delta MB_{P,n}$ and Spherical coverage values are increased by $\Delta MB_{S,n}$, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

- The value of Y for power classes 1 and 4 is FFS, where Y₁ and Y₄ are the rough/fine beam gain differences in Rx beam peak direction for power classes 1 and 4 respectively
- The value of Z for power classes 1 and 4 is FFS, where Z₁ and Z₄ are the rough/fine beam gain differences in spherical coverage directions for power classes 1 and 4 respectively

B.2.4.2 Conditions for CSI-RS based L1-RSRP reporting

This clause defines the following conditions for NR L1-RSRP measurement reporting and corresponding procedures performed based on CSI-RS: CSI-RS_RP and CSI-RS Ês/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.4.2-1 for FR1 NR cells.

The conditions are defined in Table B.2.4.2-2 for FR2 NR cells.

Table B.2.4.2-1: Conditions for CSI-RS based L1-RSRP measurements in FR1

	ND anarating		CSI-RS Ês/lot				
Parameter	NR operating band groups ^{Note1}		dBm / SCS _{CSI-RS}				
	balla groups	SCS _{CSI-RS} = 15 kHz	SCS _{CSI-RS} = 30 kHz	SCS _{CSI-RS} = 60 kHz	dB		
	NR_FDD_FR1_A,						
	NR_TDD_FR1_A,	-124	-121	-118			
	NR_SDL_FR1_A						
	NR_FDD_FR1_B	-123.5	-120.5	-117.5			
	NR_TDD_FR1_C	-123	-120	-117			
Conditions	NR_FDD_FR1_D,	-122.5	-119.5	-116.5	> 2		
Conditions	NR_TDD_FR1_D	-122.3	-119.5	-110.5	≥ -3		
	NR_FDD_FR1_E,	-122	-119	-116			
	NR_TDD_FR1_E	-122	-119	-110			
	NR_FDD_FR1_F	-121.5	-118.5	-115.5			
	NR_FDD_FR1_G	-121	-118	-115			
	NR_FDD_FR1_H	-120.5	-117.5	-114.5			
NOTE 1: NF	Roperating band group	s are defined in clause	3.5.2.				

Table B.2.4.2-2: Conditions for CSI-RS based L1-RSRP measurements in FR2

				Minimum CSI-RS_RP Note 2, Note 3 dBm / SCS _{CSI-RS}							
		ND									
Parameter	Angle of arrival	NR operating		SCS _{CSI-RS}	s = 60 kHz		SCS _{CSI-RS} = 120 kHz				
		bands		UE pow	er class		UE power class	dB			
			1	2	3	4	1, 2, 3, 4				
		n257	- 128.3+Y ₁	-113.8	-112.1	- 127.8+Y ₄	(Value for				
	Rx Beam Peak	n258	- 128.3+Y ₁	-113.8	-112.1	- 127.8+Y ₄					
		n259			-108.5		SCS _{CSI-RS} = 60	≥-3			
		n260	- 125.3+Y ₁		-109.5	- 125.8+Y ₄	kHz) +3dB				
Conditions		n261	- 128.3+Y ₁	-113.8	-112.1	- 127.8+Y ₄					
Conditions		n257	- 120.3+Z ₁	-102.8	-101.2	- 118.8+Z ₄					
	Spherical	n258	- 120.3+Z ₁	-102.8	-101.2	- 118.8+Z ₄	(Value for				
	coverage	n259			-95.7		SCS _{CSI-RS} = 60	≥-3			
	Note 1	n260	- 117.3+Z ₁		-96.9	- 113.8+Z ₄	kHz) +3dB				
		n261	- 120.3+Z ₁	-102.8	-101.2	- 118.8+Z ₄					

- NOTE 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.
- NOTE 2: Values specified at the Reference point to give minimum CSI-RS Ês/lot, with no applied noise.
- NOTE 3: For UEs that support multiple FR2 bands, $\bar{R}x$ Beam Peak values are increased by $\Delta MB_{P,n}$ and Spherical coverage values are increased by $\Delta MB_{S,n}$, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

Editor's notes for Table B.2.4.2-2:

- The value of Y for power classes 1 and 4 is FFS, where Y₁ and Y₄ are the rough/fine beam gain differences in Rx beam peak direction for power classes 1 and 4 respectively
- The value of Z for power classes 1 and 4 is FFS, where Z₁ and Z₄ are the rough/fine beam gain differences in spherical coverage directions for power classes 1 and 4 respectively

B.2.5 Conditions for RRC connection release with redirection to NR

This clause defines the following conditions for RRC connection release with redirection to NR: SSB_RP and SSB Ês/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.5-1 for FR1 NR cells.

The conditions are defined in Table B.2.5-2 for FR2 NR cells.

Table B.2.5-1: Conditions for for RRC connection release with redirection to NR in FR1

		Minimum	SSB Ês/lot			
Parameter	NR operating band groups Note1	dBm / S	dBm / SCS _{SSB}			
		SCS _{SSB} = 15 kHz	SCS _{SSB} = 30 kHz	dB		
	NR_FDD_FR1_A, NR_TDD_FR1_A	-125	-122			
	NR_FDD_FR1_B	-124.5	-121.5			
	NR_TDD_FR1_C	-124	-121			
Conditions	NR_FDD_FR1_D, NR_TDD_FR1_D	-124.5	-120.5	× 1		
Conditions	NR_FDD_FR1_E, NR_TDD_FR1_E	-123	-120	≥ -4		
	NR_FDD_FR1_F	-122.5	-119.5			
	NR_FDD_FR1_G	-122	-119			
	NR_FDD_FR1_H	-121.5	-118.5			
NOTE 1: NF	Roperating band groups are defined in clause	e 3.5.2.		•		

Table B.2.5-2: Conditions for RRC connection release with redirection to NR in FR2

				SSB Ês/lot				
		ND			dBm / SC	S _{SSB}		
Parameter	Angle of arrival	NR operating		SCS _{SSB} =	= 120 kHz		SCS _{SSB} = 240 kHz	-ID
		bands		UE pow	er class		UE power class	dB
			1	2	3	4	1, 2, 3, 4	
		n257	- 126.3+Y ₁	-111.8	-110.1	- 125.8+Y ₄	(Value for SCS _{SSB} = 120 kHz) +3dB	
	Rx Beam Peak	n258	- 126.3+Y ₁	-111.8	-110.1	- 125.8+Y ₄		≥-4
		n259			-106.5			
		n260	- 123.3+Y ₁		-107.5	- 123.8+Y ₄		
Conditions		n261	- 126.3+Y ₁	-111.8	-110.1	- 125.8+Y ₄		
Conditions		n257	- 118.3+Z ₁	-100.8	-99.2	- 116.8+Z ₄		
	Spherical	n258	- 118.3+Z ₁	-100.8	-99.2	- 116.8+Z ₄	(Value for	
	coverage	n259			-93.7		SCS _{SSB} = 120	≥-4
	Note 1	n260	- 115.3+Z ₁		-94.9	- 111.8+Z ₄	kHz) +3dB	
		n261	-114.3	-100.8	-99.2	- 116.8+Z ₄		

NOTE 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.

NOTE 2: Values specified at the Reference point to give minimum SSB Ês/lot, with no applied noise.

NOTE 3: For UEs that support multiple FR2 bands, Rx Beam Peak values are increased by ΔMB_{P,n} and spherical coverage values are increased by ΔMB_{S,n}, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

Editor's notes for Table B.2.5.2-2:

⁻ The value of Y for power classes 1 and 4 is FFS, where Y₁ and Y₄ are the rough/fine beam gain differences in Rx beam peak direction for power classes 1 and 4 respectively

⁻ The value of Z for power classes 1 and 4 is FFS, where Z_1 and Z_4 are the rough/fine

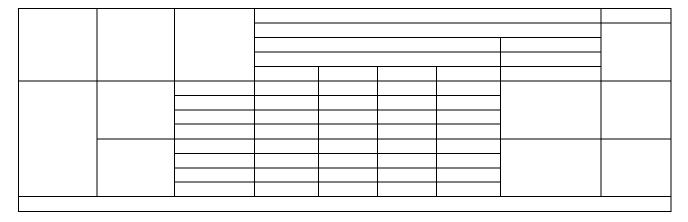
B.2.6 Void

B.2.6.1 Void

Table B.2.6.1-1: Void

		_			

Table B.2.6.1-2: Void



B.2.6.2 Void

B.2.7 Conditions for SRS-RSRP measurements

This clause defines the following conditions for SRS-RSRP measurement and corresponding procedures performed based on SRSs: SRS RP and SRS £s/Iot, applicable for a corresponding operating band.

The conditions are defined in Table B.2.7-1 for FR1 NR cells.

The conditions are defined in Table B.2.7-2 for FR2 NR cells.

Table B.2.7-1: Conditions for SRS-RSRP measurements in FR1

	NP operating band		SRS Ês/lot						
Parameter	NR operating band groups Note1		40						
	groups	SCS _{SRS} = 15 kHz	SCS _{SRS} = 30 kHz	SCS _{SRS} = 60 kHz	dB				
	NR_TDD_FR1_A	-120	-117	-114					
Conditions	NR_TDD_FR1_C	-119	-116	-113	\ 1				
Conditions	NR_TDD_FR1_D	-118.5	-115.5	-112.5	≥ 1				
	NR_TDD_FR1_E	-118	-115	-112					
NOTE 1: NR	NOTE 1: NR operating band groups are defined in clause 3.5.2.								

	ND			Minimum SRS_RP Note 2, Note 3						
				dBm / SCS	SSRS					
Parameter	Angle of arrival	val operating SCS _{SRS} = 60 kHz					SCS _{SRS} = 120 kHz			
		bands		UE Powe	er class		UE Power class	dB		
				1	2	3	4	1, 2, 3, 4		
	Rx Beam	n257	-124.5	-119.0	-115.3	-124.0	(Value for			
		n258	-124.5	-119.0	-115.3	-124.0		S.4		
	Peak	n260	-121.5		-112.7	-122.0	SCS _{SRS} = 60 kHz) +3dB	≥1		
Conditions		n261	-124.5	-119.0	-115.3	-124.0	KHZ) TOUD			
Conditions	Cubariaal	n257	-116.5	-108.0	-104.4	-115.0	() /alua fan			
	Spherical	n258	-116.5	-108.0	-104.4	-115.0	(Value for	≥1		
	coverage Note 1	n260	-113.5		-100.1	-110.0	SCS _{SRS} = 60 kHz) +3dB			
	11010 1	-001	44C E	100.0	1011	1150	KIIZ) TOUD			

Table B.2.7-2: Conditions for SRS-RSRP measurements in FR2

- NOTE 1: Values based on EIS spherical coverage as defined in clause 7.3.4 of TS 38.101-2 [19]. Side condition applies for directions in which EIS spherical coverage requirement is met.
- NOTE 2: Values specified at the Reference point to give minimum SRS Ês/lot, with no applied noise.

-116.5

NOTE 3: For UEs that support multiple FR2 bands, Rx Beam Peak values are increased by $\Delta MB_{P,n}$ and Spherical coverage values are increased by $\Delta MB_{S,n}$, the UE multi-band relaxation factor in dB specified in clause 6.2.1 of TS 38.101-2 [19].

-108.0

-104.4

-115.0

B.3 RRM Requirements Exceptions

n261

B.3.1 Introduction

Annex B.3 covers exceptions for side conditions based on receiver sensitivity for CA, DC, and SUL.

B.3.2 Receiver sensitivity relaxation for CA

B.3.2.1 Receiver sensitivity relaxation for UE supporting CA in FR1

For a UE supporting inter-band carrier aggregation configuration with uplink in NR band, if there is a relaxation of receiver sensitivity $\Delta R_{IB,c}>0$ dB as defined in clause 7.3A.3 of TS 38.101-1 [18], the relevant side conditions specifying received power levels (SSB_RP and Io) shall be increased by the amount $\Delta=\Delta R_{IB,c}$ defined for the corresponding downlink NR bands.

For a UE supporting CA configuration in FR1, the requirement in this clause applies for both SC and CA operation.

B.3.2.2 Receiver sensitivity relaxation for UE configured with CA in FR1

B.3.2.2.1 Inter-band carrier aggregation

For a UE configured with inter-band carrier aggregation with active uplink in NR band, if there is a relaxation of receiver sensitivity $\Delta R_{IB,c}>0$ dB as defined in clause 7.3A.3 of TS 38.101-1 [18], the relevant side conditions specifying received power levels (SSB_RP and Io) shall be increased by the amount $\Delta=\Delta R_{IB,c}$ defined for the corresponding downlink NR bands.

If the relaxation Δ specified in this clause applies, then the relaxation specified in clause B.3.2.1 should not be applied.

B.3.2.2.2 Reference sensitivity exceptions due to UL harmonic interference for CA

In this clause, requirements exceptions are described for the UE configured with a band in FR1 when it is impacted by UL harmonic interference from another band in FR1 of the same CA configuration.

A relevant side condition (SSB_RP and Io) in a requirement shall be increased by the amount Δ =L2-L1, where L1 is the reference sensitivity level specified in clause 7.3.2 of TS 38.101-1 [18], and L2 is the reference sensitivity level based on the requirements in clause 7.3A.4 of TS 38.101-1 [18], when the following conditions are fulfilled,

- corresponding downlink component carriers on different NR bands are configured with CA and active,

1831

- the upling is configured in the NR low operating band and is active,
- the uplink configuration is as specified in clause 7.3A.4 of TS 38.101-1 [18], and
- the exception requirements specified in clause 7.3A.4 of TS 38.101-1 [18] apply.

If the relaxation Δ specified in this clause applies, then the relaxation specified in clause B.3.2.1 should not be applied.

B.3.2.2.3 Reference sensitivity exceptions due to intermodulation interference due to 2UL CA

In this clause, requirements exceptions are described for the UE with an inter-band carrier aggregation with uplink assigned to two NR bands.

A relevant side condition (SSB_RP and Io) in a requirement shall be increased by the amount Δ =L2-L1, where L1 is the reference sensitivity level specified in clause 7.3.2 of TS 38.101-1 [18], and L2 is the reference sensitivity level based on the requirements in clause 7.3A.5 of TS 38.101-1 [18], when the following conditions are fulfilled,

- corresponding downlink component carriers on different bands are configured with CA and active,
- uplinks are assigned to two NR bands,
- the exception requirements specified in clause 7.3A.5 of TS 38.101-1 [18] apply.

If the relaxation Δ specified in this clause applies, then the relaxation specified in clause B.3.2.1 should not be applied.

B.3.2.3 Receiver sensitivity relaxation for UE supporting CA in FR2

B.3.2.4 Receiver sensitivity relaxation for UE configured with CA in FR2

B.3.2.4.1 Intra-band contiguous carrier aggregation

For a UE configured with intra-band contiguous carrier aggregation in NR band in FR2, if there is a relaxation of receiver sensitivity $\Delta R_{IB}>0$ dB as defined in clause 7.3A.2.1 of TS 38.101-2 [19] depending on the aggregated channel bandwidth, the relevant side conditions specifying received power levels (SSB_RP and Io) shall be increased by the amount $\Delta=\Delta R_{IB}$ defined for the corresponding downlink NR bands.

B.3.2.4.2 Intra-band non-contiguous carrier aggregation

For a UE configured with intra-band non-contiguous carrier aggregation in NR band in FR2, if there is a relaxation of receiver sensitivity $\Delta R_{IB}>0$ dB as defined in clause 7.3A.2.1 of TS 38.101-2 [19] depending on the aggregated channel bandwidth, the relevant side conditions specifying received power levels (SSB_RP and Io) shall be increased by the amount $\Delta=\Delta R_{IB}$ defined for the corresponding downlink NR bands.

B.3.3 Receiver sensitivity relaxation for DC

B.3.3.1 Receiver sensitivity relaxation for EN-DC

Editor's note: TBD

B.3.3.2 Receiver sensitivity relaxation for NE-DC

Editor's note: TBD

B.3.4 Receiver sensitivity relaxation for SUL

B.3.4.1 Receiver sensitivity relaxation for UE supporting SUL in FR1

For a UE supporting a SUL configuration in FR1, if there is a relaxation of receiver sensitivity $\Delta R_{IB,c}>0$ dB as defined in clause 7.3C.3 of TS 38.101-1 [18], the relevant side conditions specifying received power levels (SSB_RP and Io) shall be increased by the amount $\Delta = \Delta R_{IB,c}$ defined for the corresponding downlink NR bands.

For a UE supporting a SUL configuration in FR1, the requirement in this clause applies for both SC and SUL operation.

B.3.4.2 Receiver sensitivity relaxation for UE configured with SUL in FR1

B.3.4.2.1 Reference sensitivity exceptions due to UL harmonic interference for SUL

In this clause, requirements exceptions are described for the UE with a band in FR1 when it is impacted by UL harmonic interference from another band in FR1 of the same SUL configuration.

A relevant side condition (SSB_RP and Io) in a requirement shall be increased by the amount Δ =L2-L1, where L1 is the reference sensitivity level specified in clause 7.3.2 of TS 38.101-1 [18], and L2 is the reference sensitivity level based on the requirements in clause 7.3C.2 of TS 38.101-1 [18], when the following conditions are fulfilled,

- a downlink component carrier is configured in NR band and is active,
- the upling is configured in the NR low operating band and is active,
- the uplink configuration is as specified in clause 7.3C.2 of TS 38.101-1 [18], and
- the exception requirements specified in clause 7.3C.2 of TS 38.101-1 [18] apply.

If the relaxation Δ specified in this clause applies, then the relaxation specified in clause B.3.4.1 should not be applied.

B.4 Conditions for V2X

B.4.1 Test parameters for GNSS signals

This clause defines the reference signal power levels of generated salellites for a corresponding GNSS, which will be used in V2X test cases.

Table B.4.1-1: GNSS Referenece Signal Power Parameters

System	Parameters	Unit	Value
	Number of generated satellites per system	-	6
GPS ⁽¹⁾	Reference signal power level for all satellites	dBm	-128.5
Galileo	Reference signal power level for all satellites	dBm	-127
GLONASS	Reference signal power level for all satellites	dBm	-131
BDS	Reference signal power level for all satellites	dBm	-133

NOTE 1: "GPS" here means GPS L1 C/A, Modernized GPS, or both, dependent on UE capabilities.

B.4.2 Conditions for PSBCH-RSRP Accuracy Requirements

This clause defines the following conditions for PSBCH-RSRP measurement accuracy requirements applicable for a corresponding operating band.

The conditions are defined in Table B.4.2-1 for FR1.

Table B.4.2-1: Conditions for PSBCH-RSRP measurements in FR1

		M	linimum S-SSE	S_RP	S-SSB Ês/lot
	NR V2X operating band groups Note1		iB		
Parameter		SCS _{S-SSB} =	SCS _{S-SSB} =	SCS _{S-SSB} =	dB
		15kHz	30kHz	60kHz	
	NR_TDD_FR1_B	-126.5	-123.5	-120.5	` 0
	NR_TDD_FR1_J	-122.5	-119.5	-116.5	≥ -6
NOTE 1: N	R V2X operating band groups are as defined	in Section 3.5	for the correspo	nding NR operatir	ng bands.

NOTE 2: The DUT UE does not need to support all systems. The DUT UE shall support at least one system and will be test for the supported systems.

B.4.3 Conditions for Selection/Reselection to Intra-frequency SyncRef UE

This clause defines the S-SSB_RP and S-SSB Ês/Iot applicable for a corresponding operating band.

The conditions for selection/reselection to intra-frequency SyncRef UE are defined in Table B.4.3-1 for FR1.

Table B.4.3-1: V2X synchronization measurements in FR1

Parameter		Mi	S-SSB Ês/lot				
	NR V2X operating band groups Note1		dBm/SCS _{s-SSB}				
	NK VZA operating band groups	SCS _{S-SSB} = 15kHz	SCS _{S-SSB} = 30kHz	SCS _{S-SSB} = 60kHz	dB		
	NR_TDD_FR1_B	-120.5	-117.5	-114.5	≥ 0		
	NR_TDD_FR1_J	-116.5	-113.5	-110.5	≥ 0		
NOTE 1: N	R V2X operating band groups are as define	d in Section 3.5	for the corresp	ondina NR ope	rating bands.		

B.4.4 Conditions for L1 SL-RSRP Accuracy Requirements

This clause defines the following condtions for L1 SL-RSRP measurement accuracy requirements applicable for a corresponding operating band.

The conditions are defined in Table B.4.4-1 for FR1.

Table B.4.4-1: Conditions for L1 SL-RSRP measurements in FR1

		Mir	Ês/lot		
Parameter	NR V2X operating band groups Note1				
	NK VZA operating band groups	SCS=	SCS=	SCS =	dB
		15kHz	30kHz	60kHz	
	NR_TDD_FR1_B	-120.5	-117.5	-114.5	> 0
	NR_TDD_FR1_J	-116.5	-113.5	-110.5	≥ 0

NOTE 1: NR V2X operating band groups are as defined in Section 3.5 for the corresponding NR operating bands.

NOTE 2: The parameter £s/lot is the £s/lot of PSCCH-DMRS and/or PSSCH-DMRS.

NOTE 3: The SCS is for PSCCH and/or PSSCH.

Annex C (informative): Change history

Change history								
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version	
2017-05	RAN4#83	R4-1706324				Specification skeleton	0.0.1	
2017-09						Email approved	0.1.0	
2017-09	RAN4-NR AH #3	R4-1709413				Capture TPs approved in the meeting	0.2.0	
2017-10	RAN4#84 -Bis	R4-1711985				Capture TPs approved in the meeting	0.3.0	
2017-12	RAN4#85	R4-1714546				Capture TPs approved in RAN4#85	0.4.0	
2017-12	RAN#78	RP-172407				v1.0.0 submitted for plenary approval	1.0.0	
2017-12	RAN#78					Approved by plenary – Rel-15 spec under change control	15.0.0	
2018-03	RAN#79	RP-180264	0032		В	CR to TS38.133	15.1.0	
2018-06	RAN#80	RP-181075	0037		В	CR to TS 38.133: Implementation of endorsed draft CRs from RAN4 #86bis and RAN4 #87	15.2.0	
2018-09	RAN#81	RP-181896	0043		В	CR to TS 38.133: Implementation of endorsed draft CRs from RAN4-AH-1807 and RAN4 #88	15.3.0	
2018-12	RAN#82	RP-182763	0057	3	В	CR to TS 38.133: Implementation of endorsed draft CRs from RAN4-88bis and RAN4-89	15.4.0	
2019-03	RAN#83	RP-190569	0064	1	В	CR to TS 38.133: Implementation of endorsed draft CRs from RAN4#90	15.5.0	
2019-06	RAN#84	RP-191240	0072	1	F	CR to TS 38.133: Implementation of endorsed draft CRs from RAN4#90bis and RAN4#91	15.6.0	
2019-06	RAN#84	RP-191248	0066		В	Introduction of band n48	16.0.0	
2019-06	RAN#84	RP-191242	0067		В	Introduction of band n14 - CR to TS 38.133	16.0.0	
2019-06	RAN#84	RP-191246	0068		В	Introduction of band n30 - CR to TS 38.133	16.0.0	
2019-06	RAN#84	RP-191244	0069	<u> </u>	В	introduce n18 into TS38.133	16.0.0	
2019-06	RAN#84	RP-191250	0070	1	В	n65 introduction to 38.133	16.0.0	
2019-09	RAN#85	RP-192034	0077		В	n29 introduction to 38.133	16.1.0	
2019-09	RAN#85	RP-192022	0085		Α	CR to TS 38.133: Implementation of endorsed draft CRs from RAN4#92 (Rel-16)	16.1.0	
2040 42	DAN#00	DD 400007	0000		_	- Mirrors changes in R4-1910356 for Rel-15 TS 38.133	4000	
2019-12 2019-12	RAN#86 RAN#86	RP-192997 RP-192992	0093 0095	1	A	Specification of UE antenna gain range Add RRM Test case setup for 1 AoA in Rx beam peak and 1 in	16.2.0 16.2.0	
				<u>'</u>		non Rx beam peak		
2019-12	RAN#86	RP-192997	0097		Α	Update of Parameters, Test case A.7.7.1.1 FR2 Intra-frequency SS-RSRP accuracy	16.2.0	
2019-12	RAN#86	RP-192997	0099		A	Update of Parameters, Test case A.5.7.1.1 FR2 Intra-frequency SS-RSRP accuracy	16.2.0	
2019-12	RAN#86	RP-192997	0101		Α	Update of Parameters, Test case A.7.7.1.2 FR2 Inter-frequency SS-RSRP accuracy	16.2.0	
2019-12	RAN#86	RP-192997	0103		Α	Update of Parameters, Test case A.5.7.1.2 FR2 Inter-frequency SS-RSRP accuracy	16.2.0	
2019-12	RAN#86	RP-192992	0105		Α	Correction to Random access test case in FR1 for PSCell in EN-DC	16.2.0	
2019-12		RP-193040	0107	<u> </u>	Α	CR on handover 38.133 - R16	16.2.0	
2019-12		RP-192994	0112	1	A	CR on the BWP switch test cases EN-DC FR1 (clause A.4.5.6)	16.2.0	
2019-12	RAN#86	RP-192994	0113	1	A	CR on the BWP switch test cases EN-DC FR2 (clause A.5.5.6)	16.2.0	
2019-12	RAN#86	RP-192994	0114	1	A	CR on the BWP switch test cases SA FR1 (clause A.6.5.6)	16.2.0	
2019-12 2019-12	RAN#86 RAN#86	RP-192994 RP-193042	0115 0117	1	A	CR on the BWP switch test cases SA FR2 (clause A.7.5.6) CR to TS38.133 on correction for BWP switching with SCS	16.2.0 16.2.0	
2019-12	RAN#86	RP-193040	0121		Α	changing (Section 8.2.1.2.7, 8.2.2.2.5 and 8.6.2) CR on handover RRM requirement (clause 6.1.1.5) (R16)	16.2.0	
2019-12	RAN#86	RP-192994	0123		A	CR on test cases for EN-DC FR2 inter-frequency measurement (clause A.5.6.2) (R16)	16.2.0	
2019-12	RAN#86	RP-192994	0127	1	Α	CR on test cases for Redirection from NR in FR2 to NR in FR2 (clause A.7.3.2.3) (R16)	16.2.0	
2019-12	RAN#86	RP-192994	0129	1	Α	CR on test cases for FR2 handover (clause A.7.3.1) (R16)	16.2.0	
2019-12	RAN#86	RP-193042	0131	t	A	CR to 38.133 on TCI state switching (Section 8.10) (R16)	16.2.0	
2019-12	RAN#86	RP-193009	0133		F	CR on measurement gap applicability requirement for SRVCC	16.2.0	
2019-12	RAN#86	RP-192994	0137		A	CR on TC with monitoring PDCCH not in first 3 OFDM symbols R16	16.2.0	
2019-12	RAN#86	RP-193021	0139		F	CR to add n90 in the NR operating bands in FR1 (3.5.2)	16.2.0	
2019-12	RAN#86	RP-193040	0148	1	Α	CR on inter-RAT measurement in TS38.133 (clause 9.4.2, 9.4.3)	16.2.0	
2019-12	RAN#86	RP-193042	0151		Α	CR to 38.133 R16 Add the missing units to DRX cycle values (Cat A)	16.2.0	
2019-12	RAN#86	RP-193005	0152	1	В	CR for Abbreviations for cross link interference (clause 3)	16.2.0	
2019-12	RAN#86	RP-193005	0153	1	В	CR for cross link interference measurements (clause 9)	16.2.0	
2019-12	RAN#86	RP-193041	0156		Α	CR on NR MTTD and MRTD definition for R16	16.2.0	
2019-12	RAN#86	RP-193042	0157	1	Α	Editorial correction for SCell activation and deactivation delay	16.2.0	
2019-12	RAN#86	RP-193039	0159		Α	CR for SCell activation delay in FR2	16.2.0	
2019-12	RAN#86	RP-193040	0161		Α	CR for scheduling restriction due to L1-RSRP measurement	16.2.0	
2019-12	RAN#86	RP-192993	0167		Α	CR on SSB setting for new gap and SMTC setting (Section A.3.10)	16.2.0	

2019-12	RAN#86	RP-192995	0169		Α	CR on TS38.133 for EN-DC SS-SINR tests with PSCell in FR1	16.2.0
2019-12	RAN#86	RP-192995	0171		Α	(Section A.4.7.3) CR on TS38.133 for SA SS-SINR tests with PCell in FR1 (Section	16.2.0
						A.6.7.3)	
2019-12	RAN#86	RP-192993	0185		Α	CR on cell-reselection test cases for NR SA FR2 R16	16.2.0
2019-12	RAN#86	RP-192995	0187		Α	endorsed CR on intra-frequency measurement and reporting for EN-DC FR2 R16	16.2.0
2019-12	RAN#86	RP-192996	0189		Α	endorsed CR on intra-frequency measurement and reporting for NR SA FR2 R16	16.2.0
2019-12	RAN#86	RP-192996	0191		Α	endorsed CR on RLM scheduling restrictions for EN-DC FR2 R16	16.2.0
2019-12	RAN#86	RP-192996	0193		Α	endorsed CR on RLM scheduling restrictions for NR SA FR2 R16	16.2.0
2019-12	RAN#86	RP-192992	0201		Α	Correction to PRACH configuration index in test cases r16	16.2.0
2019-12	RAN#86	RP-193009	0205		В	CR on UMTS inter-RAT measurement requirements	16.2.0
2019-12	RAN#86	RP-193009	0206		В	CR on CSSF for SRVCC	16.2.0
2019-12	RAN#86	RP-193009	0207		В	CR on measurement capability for NR- UMTS for SRVCC	16.2.0
2019-12	RAN#86	RP-193039	0209		A	Correction on the TCI state switching (clause 8.10)	16.2.0
2019-12	RAN#86	RP-193039	0219		Α	CR for 38133 editorial for clause 8.1,8.8,8.9,8.10,8.11 in Rel-16	16.2.0
2019-12	RAN#86	RP-193039	0220		A	CR for 38133 editorial for clause 8.5 in Rel-16	16.2.0
2019-12	RAN#86	RP-193039	0221		A	CR for 38133 editorial for clause 9.3 in Rel-16	16.2.0
		RP-193039	0222				
2019-12 2019-12	RAN#86	RP-193040 RP-193040			A	CR on 38133 for removal the duplicated reference in clause 2	16.2.0
	RAN#86		0223	4	A	CR on 38133 for clause 11 in Rel-16	16.2.0
2019-12	RAN#86	RP-192994	0225	1	Α	CR on TC of UE transmit timing (A.4.4.1.1, A.5.4.1.1, A.6.4.1.1, A.7.4.1.1) Rel-16	16.2.0
2019-12	RAN#86	RP-193042	0230		Α	Update on requirements related to inter-band EN-DC and NE-DC synchronous requirements	16.2.0
2019-12	RAN#86	RP-193008	0231	1	В	MRTD and MTTD requirements for asynchronous NR-NR DC	16.2.0
2019-12	RAN#86	RP-192995	0233	1	Α	Editorial corrections to measurement accuracy tests	16.2.0
2019-12	RAN#86	RP-192992	0235		Α	Corrections to SS-RSRQ and SS-SINR OTA tests with SA	16.2.0
2019-12	RAN#86	RP-192992	0237	1	Α	Corrections to SS-RSRQ and SS-SINR OTA tests with EN-DC	16.2.0
2019-12	RAN#86	RP-193042	0239	1	Α	Editorial corrections to clause 9.2	16.2.0
2019-12	RAN#86	RP-193009	0240		В	Introduction of handover requirements for SRVCC in clause 6.1.2	16.2.0
2019-12	RAN#86	RP-192992	0242		A	Corrections to band applicability of measurement accuracy tests	16.2.0
2019-12	RAN#86	RP-192996	0244		A	Introduction of bandwidth limited OCNG for OTA testing	16.2.0
2019-12	RAN#86	RP-192992	0248		A	Corrections to test cases for SA FR2 inter-frequency measurement	16.2.0
						(clause A.7.6.2)	
2019-12	RAN#86	RP-193041	0250		Α	CR to 38.133 NR reporting criteria	16.2.0
2019-12	RAN#86	RP-192993	0264		Α	CR on correcting CSI-RS based BFD and link recovery tests for	16.2.0
2019-12	RAN#86	RP-192993	0266		Α	EN-DC in FR1 CR on correcting CSI-RS based BFD and link recovery tests for	16.2.0
2019-12	RAN#86	RP-192993	0268		Α	SA in FR1 CR on correcting CSI-RS based BFD and link recovery tests for	16.2.0
2019-12	RAN#86	RP-192993	0270		Α	EN-DC in FR2 CR on correcting CSI-RS based BFD and link recovery tests for	16.2.0
						SA in FR2	
2019-12	RAN#86	RP-193004	0274	1	В	CR on introducing L1-SINR mapping in TS38.133 R16	16.2.0
2019-12	RAN#86	RP-193040	0276		Α	CR on delay uncertainty of RRC Release with redirection requirements in TS 38.133 (Cat A)	16.2.0
2019-12	RAN#86	RP-193040	0278		Α	CR on known condition of PSCell addition requirement in NE-DC (Cat A)	16.2.0
2019-12	RAN#86	RP-193041	0280		Α	CR on known condition of PSCell addition requirement in NR DC (Cat A)	16.2.0
2019-12	RAN#86	RP-193041	0282		Α	CR on RRC Re-establishment requirements in TS 38.133 (Cat A)	16.2.0
2019-12	RAN#86	RP-193041	0284		A	CR on scope of interruption requirements of EN-DC in TS 38.133	16.2.0
2010-12	1 0 0 1100	11. 1000-1	0204		'`	(Cat A)	13.2.0
2019-12	RAN#86	RP-193041	0286		Α	CR on scope of MTTD requirements in TS 38.133 (Cat A)	16.2.0
2019-12	RAN#86	RP-193041	0288		A	CR on SSB-based RLM test case for EN-DC FR1 (Cat A)	16.2.0
					_		16.2.0
2019-12	RAN#86	RP-192994	0290		A	CR on SSB-based RLM test case for NR SA FR1 (Cat A)	
2019-12	RAN#86	RP-193042	0292		A	Editorial CR on clause 8.2 (Cat A)	16.2.0
2019-12	RAN#86	RP-193041	0296		A	CR on NR inter-frequency identification (Cat A)	16.2.0
2019-12	RAN#86	RP-193041	0298		Α	CR on NR intra-frequency measurements (Cat A)	16.2.0
2019-12	RAN#86	RP-193039	0312		Α	Correction on CSSF within measurement gap (clause 9.1.5.2) (cat-A)	16.2.0
2019-12	RAN#86	RP-193041	0314		Α	CR on RLM scheduling restriction (clause 8.1.7) (cat-A)	16.2.0
2019-12	RAN#86	RP-193041	0316		Α	CR on SCell activation requirements (clause 8.3.2) (cat-A)	16.2.0
2019-12	RAN#86	RP-193042	0318		Α	CR to add QCL definition (clause 3.6) (cat-A)	16.2.0
2019-12	RAN#86	RP-192993	0320		Α	CR on power offset in TRS RMC (A.3.17) (cat-A)	16.2.0
2019-12	RAN#86	RP-192995	0322		Α	CR to introduce new PDCCH RMC (A.3.1.3.2) (cat-A)	16.2.0
2019-12	RAN#86	RP-192997	0324		Α	Maintenance CR for measurement accuracy (clause 10.1) (cat-A)	16.2.0
2019-12	RAN#86	RP-192996	0326		Α	FR1 CSI-RS RLM test OOS/IS non-DRX for EN-DC (clause	16.2.0
2019-12	RAN#86	RP-192996	0328		Α	A.4.5.1) (cat-A) FR2 CSI-RS RLM test OOS/IS non-DRX for EN-DC (clause	16.2.0
						A.4.5.1) (cat-A)	
2019-12	RAN#86	RP-192996	0330		Α	FR1 CSI-RS RLM test OOS/IS non-DRX for SA (clause A.6.5.1) (cat-A)	16.2.0

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2019-12	RAN#86	RP-192996	0332		Α	FR2 CSI-RS RLM test OOS/IS non-DRX for SA (clause A.6.5.1)	16.2.0
						(cat-A)	
2019-12	RAN#86	RP-192997	0334		Α	L1-RSRP delay test FR1 EN-DC (clause A.4.6.3) (cat-A)	16.2.0
2019-12	RAN#86	RP-192997	0336		Α	L1-RSRP delay test FR2 EN-DC (clause A.5.6.3) (cat-A)	16.2.0
2019-12	RAN#86	RP-192997	0338		Α	L1-RSRP delay test FR1 SA (clause A.6.6.4) (cat-A)	16.2.0
2019-12	RAN#86	RP-192997	0340		Α	L1-RSRP delay test FR2 SA (clause A.7.6.3) (cat-A)	16.2.0
2019-12	RAN#86	RP-192996	0344		Α	L1-RSRP accuracy test FR2 EN-DC (clause A.5.7.4) (cat-A)	16.2.0
2019-12	RAN#86	RP-192996	0346		A	L1-RSRP accuracy test FR2 SA (clause A.7.7.4) (cat-A)	16.2.0
2019-12	RAN#86	RP-193005	0347	1	В	CR to introduce CLI measurement accuracy requirements	16.2.0
2019-12	RAN#86	RP-193008	0348		В	CR on measurement gap interruption due to async NR-DC	16.2.0
2019-12	RAN#86	RP-193008	0349		В	CR on Interruptions at PSCell/SCell addition/release in async NR-DC	16.2.0
2019-12	RAN#86	RP-193008	0350		В	Introducing euCA related interruption requirements for EN-DC in 38.133 (clause 8.2.1)	16.2.0
2019-12	RAN#86	RP-193008	0351		В	Introducing euCA related interruption requirements for NE-DC in 38.133 (clause 8.2.3)	16.2.0
2019-12	RAN#86	RP-193008	0352	1	В	CR on direct SCell activation delay	16.2.0
2019-12	RAN#86	RP-193039	0358		Α	CR 38.133 (8.3.2) Amendment of requirements depending on	16.2.0
						T_SMTC_Max	
2019-12	RAN#86	RP-193039	0360		Α	CR 38.133 (8.3.3) Correction of SCell deactivation delay	16.2.0
2019-12	RAN#86	RP-192992	0362	1	Α	CR 38.133 (A.7.5.7) TCs for PSCell addition and release delay	16.2.0
2019-12	RAN#86	RP-192995	0366		Α	CR to TS 38.133: New common clause with OTA related definitions for FR2 testing (Rel-16)	16.2.0
2019-12	RAN#86	RP-192995	0368		Α	CR to TS 38.133: Configuration of NR FR1 cell in NR FR1-FR2 tests (Rel-16)	16.2.0
2019-12	RAN#86	RP-192995	0370		Α	CR to TS 38.133: Clarificatins to Antenna Configurations for FR2 (Rel-16)	16.2.0
2019-12	RAN#86	RP-192995	0372		Α	CR to TS 38.133: Corrections to CORESET RMCs (Rel-16)	16.2.0
2019-12	RAN#86	RP-192995	0374		Α	CR to TS 38.133: Corrections to FR2 test configurations (Rel-16)	16.2.0
2019-12	RAN#86	RP-193042	0376	1	Α	Editorial updates (clause 9.4)	16.2.0
2019-12	RAN#86	RP-193039	0378		Α	Correction in interruption requirements (clause 8.2)	16.2.0
2019-12	RAN#86	RP-193042	0380	1	Α	Editorial updates (Annex B)	16.2.0
2019-12	RAN#86	RP-193040	0382		Α	CR on 38133 for MRTD and MTTD in intra-band EN-DC	16.2.0
2019-12	RAN#86	RP-193039	0390		Α	Correction to the starting point of the DRX cycle length interval	16.2.0
2019-12	RAN#86	RP-192992	0391		Α	CR for MAC-CE based TCI State switch for ENDC (Section A.5.5.8)	16.2.0
2019-12	RAN#86	RP-192993	0392		Α	CR for MAC-CE based TCI State switch for NR SA (Section A.7.5.7)	16.2.0
2019-12	RAN#86	RP-192993	0393		Α	CR for RRC based TCI State switch for NR SA (Section A.7.5.7)	16.2.0
2019-12	RAN#86	RP-192993	0394		Α	CR for RRC based TCI State switch for EN-DC (Section A.5.5.8)	16.2.0
2019-12	RAN#86	RP-192992	0395		Α	CR for FR1 handover test cases (Section A.6.3.1.1, A.6.3.1.2, A.6.3.1.3)	16.2.0
2019-12	RAN#86	RP-193041	0396		Α	CR on MTTD for intra-band EN-DC	16.2.0
2019-12	RAN#86	RP-193040	0398		Α	CR on corrections on NR intra frequency measurement reporting	16.2.0
					, ,	requirements (Section 9.2.4)	
2020-03	RAN#87	RP-200401	0405	1	Α	[CR] handover requirements 38.133 R16 (Cat A)	16.3.0
2020-03	RAN#87	RP-200401	0412	1	Α	[CR] SCell activation delay 38.133 R16 (Cat A)	16.3.0
2020-03	RAN#87	RP-200401	0417		Α	Corrections to RRM Test case A.7.1.1.2	16.3.0
2020-03	RAN#87	RP-200401	0419		Α	Correction to Active UL BWP for SA intra-frequency event triggered reporting with per-UE gaps	16.3.0
2020-03	RAN#87	RP-200401	0421		Α	Correction to FR1-E-UTRA Inter-RAT cell re-selection test cases	16.3.0
2020-03	RAN#87	RP-200401	0423		Α	Removal of Time offset between PCell and PSCell in SA RRM Test cases	16.3.0
2020-03	RAN#87	RP-200401	0425		Α	Correction to SRS periodicity and Offset for UL transit timing with DRx config	16.3.0
2020-03	RAN#87	RP-200401	0427		Α	Update of Test Requirements, FR2 Intra-frequency SS-RSRP accuracy Test cases	16.3.0
2020-03	RAN#87	RP-200401	0429		Α	Update of Test requirements, FR2 Inter-frequency SS-RSRP accuracy Test cases	16.3.0
2020-03	RAN#87	RP-200401	0439	1	Α	CR on test cases for SA FR2 inter-frequency measurement R16 (section A.7.6.2)	16.3.0
2020-03	RAN#87	RP-200401	0441		Α	Editorial corrections for 38.133 Core Part R16 (Cat A)	16.3.0
2020-03	RAN#87	RP-200401	0445	1	Α	Editorial corrections for 38.133 Perf Part R16 (Cat A)	16.3.0
2020-03	RAN#87	RP-200401	0454		Α	Editorial correction for active TCI state switching delay	16.3.0
2020-03	RAN#87	RP-200401	0462	1	Α	Corrections for BWP switch delay R16 (Cat A)	16.3.0
2020-03	RAN#87	RP-200401	0464		Α	CR for reference correction on L1-RSRP measurement period (section 9.5.3)	16.3.0
2020-03	RAN#87	RP-200401	0466		Α	CR for measurement restriction in FR2 across CCs (section 8.1.2.3, 8.1.3.3, 8.5.2.3, 8.5.3.3, 8.5.5.3, 8.5.6.3, 9.5.5.1, 9.5.5.2)	16.3.0
2020-03	RAN#87	RP-200401	0468		Α	CR for SSB based candidate beam detection (section 8.5.5.2)	16.3.0
2020-03	RAN#87	RP-200401	0488		A	CR to TS 38.133: Corrections to FR1-FR2 event triggered test cases Annex A.5 (Rel-16)	16.3.0
2020-03	RAN#87	RP-200401	0490		Α	CR to TS 38.133: Corrections to FR1-FR2 event triggered test cases Annex A.7 (Rel-16)	16.3.0
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2020-03	RAN#87	RP-200401	0492		Α	CR to TS 38.133: Clarifications to AoA setup and AoA cell assignement Annex A.5 (Rel-16)	16.3.0
2020-03	RAN#87	RP-200401	0494		Α	CR to TS 38.133: Clarifications to AoA setup Annex A.8 (Rel-16)	16.3.0
2020-03	RAN#87	RP-200401	0496		Α	CR to TS 38.133: Addition of TC A.4.7.2.2 (Rel-16)	16.3.0
2020-03	RAN#87	RP-200401	0500		Α	Editorial correction of EN-DC FR1 L1-RSRP measurement for beam reporting	16.3.0
2020-03	RAN#87	RP-200401	0502		Α	Editorial correction of NR SA FR1 L1-RSRP measurement for beam reporting	16.3.0
2020-03	RAN#87	RP-200401	0509		Α	CR on removing one-shot timing adjustment requirements (Cat A)	16.3.0
2020-03	RAN#87	RP-200401	0516		Α	Correction to BWP switching delay_r16	16.3.0
2020-03	RAN#87	RP-200401	0518		Α	Correction to inter-RAT measurement on LTE serving carrrier_r16	16.3.0
2020-03	RAN#87	RP-200401	0520		Α	Correction to configurations for TRS_r16	16.3.0
2020-03	RAN#87	RP-200401	0522		Α	NOTE The CR is not implemented because the corresponding Cat F CR is not implementable.	16.3.0
2020-03	RAN#87	RP-200401	0524		Α	Correction to interruption TCs_r16	16.3.0
						NOTE The CR is not implemented because the corresponding Cat F CR is not implementable.	
2020-03	RAN#87	RP-200401	0528		Α	Correction to RF channels configuration_r16	16.3.0
2020-03	RAN#87	RP-200401	0530		Α	Correction to RRC release with redirection TCs_r16	16.3.0
2020-03	RAN#87	RP-200401	0532		Α	Correction to UL reconfiguration delay TCs_r16	16.3.0
2020-03	RAN#87	RP-200401	0538		Α	CR on SSB RLM test cases EN-DC R16	16.3.0
2020-03	RAN#87	RP-200401	0540		Α	CR on SSB RLM test cases SA R16	16.3.0
2020-03	RAN#87	RP-200401	0542		Α	CR on cell reselection test cases for FR2 SA R16	16.3.0
2020-03	RAN#87	RP-200401	0544		Α	OCNG pattern for TDM-ed SSB R16	16.3.0
2020-03	RAN#87	RP-200401	0564		Α	NR editorial correction	16.3.0
2020-03	RAN#87	RP-200401	0580		Α	CR 38.133 (8.11) Corrections to PSCell change delay requirements	16.3.0
2020-03	RAN#87	RP-200401	0587		Α	PRACH configurations in FR1 SSB based RLM tests	16.3.0
2020-03	RAN#87	RP-200401	0589		A	PRACH configurations in FR1 SSB based BFR tests	16.3.0
2020-03	RAN#87	RP-200375	0437	1	В	CR for Conditional PSCell addition/change RRM requirement	16.3.0
2020-03 2020-03	RAN#87 RAN#87	RP-200381 RP-200374	0440 0452	1	B B	n26 introduction to 38.133	16.3.0 16.3.0
2020-03	RAN#87	RP-200374 RP-200372	0452	- 1	В	CR on interruption requirements for NR V2X CR on RRM requirement for maximum MIMO layer adaptation	16.3.0
2020-03	RAN#87	RP-200372	0460	1	F	introduce n18 into TS38.133	16.3.0
2020-03	RAN#87	RP-200374	0473	1	В	CR of NR V2X RRM(introduction & reliability of GNSS signal)	16.3.0
2020-03	RAN#87	RP-200374	0476	2	В	CR on NR V2X initiation SLSS 38.133 -R16	16.3.0
2020-03	RAN#87	RP-200401	0479		F	CR to 38.133 NR reporting criteria	16.3.0
2020-03	RAN#87	RP-200382	0486		В	Introduction of n53 into 38.133	16.3.0
2020-03	RAN#87	RP-200371	0498		В	Updates to SA NR interruption requirements for NR-U	16.3.0
2020-03	RAN#87	RP-200401	0510		F	CR on inter-band EN-DC and NE-DC synchronous requirements	16.3.0
2020-03	RAN#87	RP-200375	0511	1	В	CR on DAPS handover requirements	16.3.0
2020-03	RAN#87	RP-200374	0512		В	CR on introducing UE sidelink timing requirements for NR V2X	16.3.0
2020-03	RAN#87	RP-200370	0545	1	F	CR on CLI measurement requirements	16.3.0
2020-03	RAN#87	RP-200370	0546	1	F	CR on CLI measurement accuracy requirements	16.3.0
2020-03	RAN#87	RP-200406	0547		В	CR on Interruptions at SCell activation/deactivation in async NR-DC	16.3.0
2020-03	RAN#87	RP-200406	0548	1	F	CR on direct SCell activation delay	16.3.0
2020-03	RAN#87	RP-200376	0551	1	F	Correction on handover requirements for SRVCC	16.3.0
2020-03	RAN#87	RP-200371	0558	1	B F	CR to 38.133 to address NR-U inter-RAT measurements	16.3.0
2020-03 2020-03	RAN#87 RAN#87	RP-200401 RP-200370	0578 0582		В	CR 38.133 (8.3.2) Correction of error in Rel-16 SCell activation CR for conditions for cross link interference measurements	16.3.0 16.3.0
	RAN#88					(section B)	
2020-06 2020-06	RAN#88	RP-200987 RP-200987	0595 0596		A F	[CR] Editorial corrections for 38.133 R16 Core Part - Cat A	16.4.0
2020-06	RAN#88	RP-200987 RP-200987	0598		A	[CR] Editorial corrections for 38.133 R16 Core Part - Cat F [CR] Editorial corrections for 38.133 R16 Perf Part - Cat A	16.4.0 16.4.0
2020-06	RAN#88	RP-200967	0599		F	[CR] Delay requirements for direct SCell activation	16.4.0
2020-06	RAN#88	RP-200987	0600		F	[CR] Editorial corrections for 38.133 R16 Perf Part - Cat F	16.4.0
2020-06	RAN#88	RP-200987	0602		A	CR to Intra-frequency handover from FR1 to FR1	16.4.0
2020-06	RAN#88	RP-200987	0606		Α	CR to A.6.1.2.1 Cell reselection to higher priority E-UTRAN	16.4.0
2020-06	RAN#88	RP-200987	0608		Α	Correction to General test parameters in A.6.6.1.2	16.4.0
2020-06	RAN#88	RP-200987	0620		Α	CR on CSSF correction for R16 TS38.133	16.4.0
2020-06	RAN#88	RP-201047	0625	1	В	CR on multiple SCell activation deactivation requirement for R16	16.4.0
2020-06	RAN#88	RP-201047	0626	1	В	CR on multiple SCell activation interruption requirement for R16	16.4.0
2020-06	RAN#88	RP-200987	0629	_	A	CR on Active TCI State Switching requirements - Rel16	16.4.0
2020-06	RAN#88	RP-201055	0632	2	F	Rapportuer CR for TS38.133	16.4.0
2020-06	RAN#88	RP-201048	0635	2	В	CR on minimum requirement at transition period for UE power saving	16.4.0
2020-06	RAN#88	RP-200958	0636	1	F	CR on interruption requirements for NR V2X	16.4.0
2020-06	RAN#88	RP-200975	0641	1	В	CR on cell identification requirements for NR HST	16.4.0

2020-06	RAN#88	RP-201044	0642	2	В	CR on PRS-RSRP measurement report mapping	16.4.0
2020-06	RAN#88	RP-201044	0645	1	В	CR on SRS RSRP measurement report mapping	16.4.0
2020-06	RAN#88	RP-200973	0646	2	В	CR to TS38.133 on introduction of L1-SINR Measurement Requirement (Section 3.3 and 9)	16.4.0
2020-06	RAN#88	RP-200973	0648	1	В	CR to TS38.133 on introduction of SCell BFRQ Procedure (Section 8.5)	16.4.0
2020-06	RAN#88	RP-200987	0651		Α	Add UE Beam assumption for RRM Test cases in A.7.3, A.7.4, A.7.7	16.4.0
2020-06	RAN#88	RP-200987	0653		Α	Add UE Beam assumption for RRM Test cases in A.5.3, A.5.4, A.5.7	16.4.0
2020-06	RAN#88	RP-200987	0655		Α	Update of FR2 RLM Test cases with 2 Angles of Arrival	16.4.0
2020-06	RAN#88	RP-200987	0657		F	Update of Tx Timing Test cases	16.4.0
2020-06	RAN#88	RP-200987	0659		Α	Update of FR2 RLM and BFD-LR Test cases	16.4.0
2020-06	RAN#88	RP-200987	0661		Α	Update of FR2 SS-RSRP Test cases	16.4.0
2020-06	RAN#88	RP-200987	0663	1	Α	CR on TCI state switch	16.4.0
2020-06	RAN#88	RP-200987	0665		Α	CR on PDSCH RMC	16.4.0
2020-06	RAN#88	RP-201047	0668	1	В	CR on active spatial relation switch	16.4.0
2020-06	RAN#88	RP-200976	0671	1	В	CR to TS 38.133: CHO RRM requirement	16.4.0
2020-06	RAN#88	RP-201047	0672	1	В	CR to TS 38.133: RRM requirement for UE-specific CBW change delay	16.4.0
2020-06	RAN#88	RP-201047	0673		В	CR to TS 38.133: RRM requirement for interruption due to UE-specific CBW change	16.4.0
2020-06	RAN#88	RP-200969	0678	1	В	CR to TS 38.133: introducing 2-step RACH core requirements	16.4.0
2020-06	RAN#88	RP-200987	0680		Α	Correction of CFRA RSRP threshold	16.4.0
2020-06	RAN#88	RP-200970	0682		В	CR for event triggered reporting tests for CLI	16.4.0
2020-06	RAN#88	RP-200958	0685		В	CR of NR V2X abbreviations	16.4.0
2020-06	RAN#88	RP-200958	0686	1	В	CR of interruption for switching between NR SL and LTE SL	16.4.0
2020-06	RAN#88	RP-200958	0687	2	F	CR of NR V2X editorial correction	16.4.0
2020-06	RAN#88	RP-200971	0689	1	В	38.133 CR on cell re-selection requirements for Rel-16 NR HST	16.4.0
2020-06	RAN#88	RP-201047	0690	1	В	CR on introducing inter-frequency measurements without measurement gap (9.1.5, 9.1.6, 9.3.1, 9.3.4, 9.3.5)	16.4.0
2020-06	RAN#88	RP-200987	0696		Α	CR on SMTC period for beam management requirements	16.4.0
2020-06	RAN#88	RP-200987	0698		Α	CR for CSI-RS based L1-RSRP measurement period	16.4.0
2020-06	RAN#88	RP-200987	0700		Α	CR on RACH test cases with CSI-RS resource R16	16.4.0
2020-06	RAN#88	RP-200987	0704		Α	CR on TS38.133 for modification of the layer 3 and layer 1 measurement sharing factor when both SSB and RSSI symbol to be measured are considered	16.4.0
2020-06	RAN#88	RP-200987	0706		Α	CR on TS38.133 for modification on number of cells and number of SSB to be measured for FR2 intra-frequency measurement	16.4.0
2020-06	RAN#88	RP-200987	0708		Α	[CR] TCI state switch delay 38.133 R16 Cat A	16.4.0
2020-06	RAN#88	RP-201047	0709	1	F	LTE CGI measurements with autonomous gaps for 38.133	16.4.0
2020-06	RAN#88	RP-201042	0710	3	В	Updates to general section for NR-U in 38.133	16.4.0
2020-06	RAN#88	RP-200976	0711	1	F	Correction to DAPS HO requirements in 38.133	16.4.0
2020-06	RAN#88	RP-201049	0712	2	F	SRVCC test case for event triggered reporting	16.4.0
2020-06	RAN#88	RP-201049	0713		F	Gap applicability errors corrected for SRVCC	16.4.0
2020-06	RAN#88	RP-200987	0715		A	Correction of NR SA FR2 inter-freq measurement reporting	16.4.0
2020-06	RAN#88	RP-200968	0717	_	F	NTA_offset setting for NR coexistence with NB-IoT	16.4.0
2020-06	RAN#88	RP-201042	0718	2	В	CR to TS 38.133: adding NR-U Handover.	16.4.0
2020-06	RAN#88	RP-200975	0723	1	В	CR on cell re-selection requirement for NR-EUTRAN measurement in TS38.133	16.4.0
2020-06	RAN#88	RP-201042	0725	1	В	CR: Introduction of L1-RSRP measurement requirements with CCA	16.4.0
2020-06	RAN#88	RP-200987	0727		Α	CR: Correction of L1-RSRP measurement period	16.4.0
2020-06	RAN#88	RP-200987	0729		Α	CR to TS 38.133: Correction to CSI-RS configurations in A.3.14 (Rel-16)	16.4.0
2020-06	RAN#88	RP-200987	0731		Α	CR to TS 38.133: Correction to SMTC configuration in measurement accuracy tests (Rel-16)	16.4.0
2020-06	RAN#88	RP-200987	0733		Α	CR to TS 38.133: Clarifications to AoA setup Annex A.5 (Rel-16)	16.4.0
2020-06	RAN#88	RP-200987	0735		Α	CR to TS 38.133: Clarifications to AoA setup Annex A.7 (Rel-16)	16.4.0
2020-06	RAN#88	RP-201048	0736		F	CR for maximum MIMO layer adaptation	16.4.0
2020-06	RAN#88	RP-200987	0738	1	F	Applicability of QCL	16.4.0
2020-06	RAN#88	RP-201047	0741	1	В	CR to 38.133 on SRS carrier switching interruption requirements	16.4.0
2020-06	RAN#88	RP-201047	0742	1	В	CR to 38.133 on impact to measurement requirements due to LTE SRS carrier switching	16.4.0
	RAN#88	RP-200969	0743	1	В	CR to 38.133 on UE transmit timing requirements for 2-step RACH	16.4.0
2020-06		RP-200987	0744	1	F	CR to 38.133 on intra frequency measurements without gaps	16.4.0
2020-06	RAN#88		0740	l	Α	CR on Psharingfactor_r16	16.4.0
2020-06 2020-06	RAN#88	RP-200987	0748			OD E LITDAN O I. O. II D	40.10
2020-06 2020-06 2020-06	RAN#88 RAN#88	RP-200987	0750		A	CR on E-UTRAN Serving Cell Parameters_r16	16.4.0
2020-06 2020-06 2020-06 2020-06	RAN#88 RAN#88 RAN#88	RP-200987 RP-200987	0750 0752		Α	CR on Modified parameters for BFD TCs with 4Rx antenna_r16	16.4.0
2020-06 2020-06 2020-06 2020-06 2020-06	RAN#88 RAN#88 RAN#88 RAN#88	RP-200987 RP-200987 RP-200987	0750 0752 0754		A A	CR on Modified parameters for BFD TCs with 4Rx antenna_r16 CR on BFD TCs_r16	16.4.0 16.4.0
2020-06 2020-06 2020-06 2020-06 2020-06 2020-06	RAN#88 RAN#88 RAN#88 RAN#88	RP-200987 RP-200987 RP-200987 RP-200987	0750 0752 0754 0756		A A A	CR on Modified parameters for BFD TCs with 4Rx antenna_r16 CR on BFD TCs_r16 CR on UL carrier RRC reconfiguration Delay TC_r16	16.4.0 16.4.0 16.4.0
2020-06 2020-06 2020-06 2020-06 2020-06	RAN#88 RAN#88 RAN#88 RAN#88	RP-200987 RP-200987 RP-200987	0750 0752 0754		A A	CR on Modified parameters for BFD TCs with 4Rx antenna_r16 CR on BFD TCs_r16	16.4.0 16.4.0

2020-06	RAN#88	RP-200987	0763	1	F	CR to FR1 SA inter-RAT measurement TCs_r16	16.4.0
2020-06	RAN#88	RP-201047	0764	1	В	CR on introduction of RRM requirements for BWP switching delay on multiple CCs	16.4.0
2020-06	RAN#88	RP-201042	0767	1	В	CR on introduction of Active TCI state switching delay with CCA	16.4.0
2020.00	DAN#00	DD 004040	0700	_	_	Requirements for NR-U	40.40
2020-06	RAN#88 RAN#88	RP-201042 RP-201042	0768 0770	1	B	CR on introduction of reporting criteria for NR-U CR on introduction of RRC_INACTIVE state mobility requirements	16.4.0 16.4.0
2020-00	KAIN#00	KF-201042	0770	'	Ь	for NR-U	10.4.0
2020-06	RAN#88	RP-200987	0775		Α	CR on interruption due to Acitve BWP switch (Cat A)	16.4.0
2020-06	RAN#88	RP-200987	0779		Α	CR on UE transmit timing (Cat A)	16.4.0
2020-06	RAN#88	RP-200987	0781		Α	Editoral CR on TS 38.133 Rel-16 (Cat A)	16.4.0
2020-06	RAN#88	RP-200987	0783		Α	CR on RRC Connection Release with Redirection (Cat A)	16.4.0
2020-06	RAN#88	RP-200987	0785		A	CR on RRC Re-establishment test cases (Cat A)	16.4.0
2020-06 2020-06	RAN#88 RAN#88	RP-200987 RP-200987	0787 0789		A	CR on Timing advance test cases for EN-DC (Cat A) CR on Timing test cases for NR SA (Cat A)	16.4.0 16.4.0
2020-06	RAN#88	RP-201045	0792	1	В	CR on DL interruption Tx switching between two uplink carriers	16.4.0
2020-06	RAN#88	RP-200975	0796	1	В	Cell identification in connected mode for NR-EUTRAN	16.4.0
						measurement in HST	
2020-06	RAN#88	RP-200987	0799		Α	Correction onTCI state switching R16	16.4.0
2020-06	RAN#88	RP-200987	0801 0802	4	A	Accuracy of carrier aggregation in NR R16	16.4.0
2020-06 2020-06	RAN#88 RAN#88	RP-201049 RP-200976	0802	1	B F	Test case for NR to UTRA FDD Inter-RAT handover CR on conditional PSCell change requirements	16.4.0
2020-06	RAN#88	RP-200976	0806	1	В	CR on SCell BFD and CBD requirements	16.4.0 16.4.0
2020-06	RAN#88	RP-201047	0808	1	В	CR on interruption requirements for FR2 inter-band CA	16.4.0
2020-06	RAN#88	RP-201047	0809	Ė	В	CR on scaling factor CSSFoutside_gap for FR2 inter-band CA	16.4.0
2020-06	RAN#88	RP-201047	0810	1	В	CR on scheduling availability requirements for FR2 inter-band CA	16.4.0
2020-06	RAN#88	RP-200987	0813		Α	CR 38.133 (8.10.5) Corrections to RRC-based TCI state change	16.4.0
2020-06	RAN#88	RP-200966	0814		F	CR 38.133 (8.3.4-5) Corrections to Direct SCell activation	16.4.0
2020-06	RAN#88	RP-200987	0816		Α	CR 38.133 (8.3.2) Corrections to SCell Activation delay	16.4.0
2020-06	RAN#88	RP-200966	0817	1	F	requirements CR 38.133 (8.3.4-5) Addition of interruption windows for Direct	16.4.0
2020-00	10/111/11/00	111 -200300	0017	'	'	SCell Activation	10.4.0
2020-06	RAN#88	RP-200978	0818	1	В	CR to 38.133 for Introduction of band n259	16.4.0
2020-06	RAN#88	RP-201047	0819	1	В	CR on SCell activation requirements for FR2 inter-band CA	16.4.0
2020-06	RAN#88	RP-200987	0821		Α	CR on FR2 measurement requirements outside gaps R16	16.4.0
2020-06	RAN#88	RP-200987	0823		Α	CR on inter-RAT RSTD requirements for NE-DC in 38.133 R16	16.4.0
2020-06	RAN#88	RP-200987 RP-200987	0825		A	CR on SCell activation requirements R16	16.4.0
2020-06 2020-06	RAN#88 RAN#88	RP-200987	0827 0829		A	CR on SSB based L1-RSRP measurement R16 CR on L1-RSRP delay tests for FR2 R16	16.4.0 16.4.0
2020-06	RAN#88	RP-200987	0831		A	CR to L1-RSRP accuracy TC for FR2 EN-DC R16	16.4.0
2020-06	RAN#88	RP-200987	0833		Α	CR to L1-RSRP accuracy TC for FR2 SA R16	16.4.0
2020-06	RAN#88	RP-200987	0835		Α	CR to TCI state switch TC R16	16.4.0
2020-06	RAN#88	RP-200970	0836		F	CR on CLI measurement requirements	16.4.0
2020-06	RAN#88	RP-200970	0837	1	F	CR on CLI measurement performance requirements	16.4.0
2020-06	RAN#88	RP-200970	0838	4	В	CR on test cases for SRS-RSRP measurement accuracy in FR1	16.4.0
2020-06 2020-06	RAN#88 RAN#88	RP-200970 RP-200970	0839 0840	1	B	CR on test cases for SRS-RSRP measurement accuracy in FR2 CR on test cases for CLI-RSSI measurement accuracy in FR1	16.4.0 16.4.0
2020-06	RAN#88	RP-200970	0841	1	В	CR on test cases for CLI-RSSI measurement accuracy in FR2	16.4.0
2020-06	RAN#88	RP-200966	0843	<u> </u>	В	CR on interruption requirements for direct SCell activation for	16.4.0
				<u> </u>		38.133	
2020-06	RAN#88	RP-200966	0844	1	В	CR on delay requirements for SCell dormancy	16.4.0
2020-06	RAN#88	RP-200966	0845	1	В	CR on interruption requirements for SCell dormancy	16.4.0
2020-06	RAN#88	RP-201044	0847	1	В	CR for gNB Rx-Tx time difference and UL-RTOA report mapping	16.4.0
2020-06 2020-06	RAN#88 RAN#88	RP-201044 RP-201048	0849 0854	2	B B	CR for AoA/ZoA report mapping Measurement requirements for UEs under power saving mode	16.4.0 16.4.0
2020-06	RAN#88	RP-201048 RP-201044	0857	1	В	NR E-CID reporting criteria requirements	16.4.0
2020-06	RAN#88	RP-201044	0858	1	В	NR E-CID measurement requirements	16.4.0
2020-06	RAN#88	RP-201044	0862	1	В	Positioning measurement accuracy requirements structure in	16.4.0
						section 10	
2020-06	RAN#88	RP-201044	0863	2	В	Reporting criteria for NR RSTD	16.4.0
2020-06	RAN#88	RP-200987	0867		Α	Clarification on RLM	16.4.0
2020-06	RAN#88	RP-201042	0869		В	BWP switching interruption requirement due to consistent UL failure in 38.133	16.4.0
2020-06	RAN#88	RP-200969	0871	1	В	Applicability of 2-step RA and 4-step RA in RRM requirements in	16.4.0
_020 00	7.0.0.4//00	200000		'	-	38.133	13.4.0
2020-06	RAN#88	RP-200975	0874	1	В	CR to TS 38.133: NR HST beam management requirements	16.4.0
2020-06	RAN#88	RP-201047	0875	1	В	CR on 38133 interruption requirements for BWP switching on	16.4.0
				<u> </u>	<u> </u>	multiple CCs	
2020-06	RAN#88	RP-200966	0879	1	В	Big CR Introduction of UE requirement for MR-DC early	16.4.0
	D 4 1 1 1 1 0 0	RP-201042	0885	-	В	measurement reporting in 38.133 RRC release with redirection requirements in NR-U in 38.133	16.4.0
2020 06		- スピーノロコロダノ	COOU	I	ΙÞ	INNO release with redirection requirements in INK-U in 38.133	16.4.0
2020-06	RAN#88			1	Δ	Rapportuer CR for TS38 133	16 / 0
2020-06 2020-06 2020-06	RAN#88 RAN#88 RAN#88	RP-200988 RP-201047	0886 0887	1	A B	Rapportuer CR for TS38.133 CR: mandatory gap pattern	16.4.0 16.4.0

2020-09	RAN#88	RP-201512	0891		Α	CR to timing advance adjustment accuracy in FR1	16.5.0
2020-09	RAN#88	RP-201512	0895		A	CR to SS-RSRQ Intra-Frequency and Inter-frequency FR1	16.5.0
2020-09	TVAIN#00	111 -201312	0033			measurement accuracy	10.5.0
2020-09	RAN#88	RP-201512	0897		Α	Update to FR2 240kHz SSB Configurations	16.5.0
2020-09	RAN#88	RP-201512	0899		A	Update of FR2 Random Access Test cases	16.5.0
2020-09	RAN#88	RP-201512	0901		A	Update to FR2 event-triggered reporting RRM Test cases in A.5.6	16.5.0
2020-09	IXAIN#00	KF-201312	0901			and A.7.6	10.5.0
2020-09	RAN#88	RP-201512	0903		Α	Update to FR2 SS-RSRP RRM Test cases in A.5.7 and A.7.7	16.5.0
2020-09			0905	-			
	RAN#88	RP-201512			A	CR to EN-DC timing advance adjustment accuracy in FR2	16.5.0
2020-09	RAN#88	RP-201512	0907		A	CR to configuration of CSI-RS for tracking	16.5.0
2020-09	RAN#88	RP-201512	0909		Α	Update of RRC-based Active BWP Switch test cases	16.5.0
2020-09	RAN#88	RP-201512	0911		Α	Update to FR2 Annex B RRM side conditions	16.5.0
2020-09	RAN#88	RP-201512	0913		Α	Add UE Beam assumption for RRM Test cases in A.5.5	16.5.0
2020-09	RAN#88	RP-201496	0914	1	В	Introduction of the P-MPR 2 bits report mapping in 38.133	16.5.0
2020-09	RAN#88	RP-201512	0922		Α	Add UE Beam assumption for RRM Test cases in A.7.5 Rel-16	16.5.0
2020-09	RAN#88	RP-201489	0924	1	F	Maintenance CR for 2-step RA	16.5.0
2020-09	RAN#88	RP-201491	0925	2	В	CR to TS 38.133: PRS RSTD requirements	16.5.0
2020-09	RAN#88	RP-201498	0928	1	F	CR on capabilities for support of event triggering and reporting	16.5.0
						criteria	
2020-09	RAN#88	RP-201512	0931		F	CR for TS38.133 Rel-16, Corrction for SCell activation delay	16.5.0
						requirement	
2020-09	RAN#88	RP-201512	0933		Α	CR for TS38.133 Rel-16, Correction for RRM core requirements	16.5.0
2020-09	RAN#88	RP-201512	0935		Α	CR for TS38.133 Rel-16, Correction for test cases of BWP	16.5.0
						switching	
2020-09	RAN#88	RP-201498	0937	1	В	CR on CSI-RS based intra-frequency measurement requirement	16.5.0
• • •			1	1	-	(Introduction, requirement applicability and number of cell and	
						beams)	
2020-09	RAN#88	RP-201500	0939	1	В	CR on uplink spatial relation switch delay (section 8.12)	16.5.0
2020-09	RAN#88	RP-201506	0940	1	В	Introduction of SCell activation/deactivation delay requirements for	16.5.0
2020 00	10 11 11/100	111 201000	0010	·		SCells operating with CCA	10.0.0
2020-09	RAN#88	RP-201491	0941	2	В	Revision of CSSF within gap to include NR positioning	16.5.0
2020 00	10 (14)/00	141 201401	0041	_		measurements with gap sharing	10.0.0
2020-09	RAN#88	RP-201491	0942	3	В	Introduction of new MG patterns for NR positioning	16.5.0
2020-09	RAN#88	RP-201491	0943	2	В	Introduction of UE Rx-Tx time difference measurement	16.5.0
2020-09	KAN#00	KF-201491	0943		Ь	requirements for NR positioning	10.5.0
2020.00	D 4 N # 0 0	DD 201512	0046		۸		16 E O
2020-09	RAN#88	RP-201512	0946		A	CR on TS38.133 for handover test cases	16.5.0
2020-09	RAN#88	RP-201512	0948		Α	CR on TS38.133 for introducing the PDSCH RMC configuration in	16.5.0
	5444400			_		cell re-selection test cases	10 = 0
2020-09	RAN#88	RP-201493	0950	2	F	CR on TS38.133 for dual active protocol stack handover (Section	16.5.0
	5444400		22.50		_	6.1.3)	10 = 0
2020-09	RAN#88	RP-201507	0952		F	CR on TS38.133 for intra-frequency measurement definition	16.5.0
						(Section 9.2.1)	
2020-09	RAN#88	RP-201512	0956		Α	CR on FR2 measurement capability for R16	16.5.0
2020-09	RAN#88	RP-201506	0957		В	CR on UE measurement capability of NR-U for R16	16.5.0
2020-09	RAN#88	RP-201507	0958	1	В	CR on RRM requirement based on dual DRX for FR1+FR2 CA	16.5.0
2020-09	RAN#88	RP-201506	0959		F	Update NR Frequency Band Groups to include Band n30	16.5.0
2020-09	RAN#88	RP-201506	0960		F	Update NR Frequency Band Groups to include Band n14	16.5.0
2020-09	RAN#88	RP-201506	0961		F	CR for Table number mismatch for CLI performance tests	16.5.0
2020-09	RAN#88	RP-201512	0963		Α	CR on Inter-RAT RSTD measurements (section 9.4.4)	16.5.0
2020-09	RAN#88	RP-201512	0965		Α	CR on active BWP switch in R16	16.5.0
2020-09	RAN#88	RP-201500	0968	1	F	CR on multiple SCells activation (section 8.3.7)	16.5.0
2020-09	RAN#88	RP-201496	0969	1	F	CR on MRTD and MTTD for FR2 inter-band CA	16.5.0
2020-09	RAN#88	RP-201498	0970	1	В	CR on MRTD for FR2 inter-band CA	16.5.0
2020-09	RAN#88	RP-201498	0970	1	В	38.133 CR on UE measurement capability on the number of	16.5.0
2020-09	1 \7\1\1#00	111 -201490	0311	'	٦	frequency layers to be monitored for CSI-RS measurement	10.3.0
2020.00	DAN#00	DD 004407	0070		_		16.5.0
2020-09	RAN#88	RP-201497	0972	4	F	38.133 CR on cell re-selection requirements for Rel-16 NR HST	16.5.0
2020-09	RAN#88	RP-201492	0973	1	F	CR of missed requirements based on the agreed CRs in	16.5.0
			05=	<u> </u>	<u> </u>	RAN4#95-e	
2020-09	RAN#88	RP-201492	0974	1	F	CR of interruption requirements	16.5.0
2020-09	RAN#88	RP-201500	0976	1	F	CR on definition of inter-frequency measurements without	16.5.0
						measurement gap (9.3.1)	
2020-09	RAN#88	RP-201500	0984		F	CR on BWP switch on multiple CCs	16.5.0
2020-09	RAN#88	RP-201512	0986	<u> </u>	Α	CR for SCell activation delay in FR2 in R16	16.5.0
2020-09	RAN#88	RP-201512	0988		Α	CR on TCI state switch delay in R16	16.5.0
2020-09	RAN#88	RP-201506	0991	1	В	CR for timing requirement for NR-U	16.5.0
2020-09	RAN#88	RP-201488	0992	1	В	CR for introduction of pathloss reference signal switching delay	16.5.0
2020-09	RAN#88	RP-201488	0993	1	F	CR for L1-SINR requirement	16.5.0
2020-09	RAN#88	RP-201498	0996	2	В	CR on introduction, applicability and capability for CSI-RS inter-	16.5.0
_0_0	1.0.111/00	201700		-		frequency measurement requirements	. 0.0.0
2020-09	RAN#88	RP-201500	0999	1	В	Impact of CGI reading on L1 and L3 measurement	16.5.0
	RAN#88	RP-201500 RP-201498	1003	1	В		
ኃበኃበ ሰሰ	L/4IN#00				F	38.133 CR on introduction of CSI-RS based measurement	16.5.0 16.5.0
2020-09		DD 204 400					
2020-09	RAN#88	RP-201488	1006	_		Correction of L1-SINR reporting requirements	
		RP-201488 RP-201506 RP-201507	1006 1007 1008	2	B F	CR: Beam management requirements with CCA [CR] Corrections to DAPS Handover	16.5.0 16.5.0

2020-09	RAN#88	RP-201500	1010	2	F	CR for FR2 inter-band CA requirements	16.5.0
2020-09	RAN#88	RP-201506	1011	1	D	CR to TS 38.133 - Handover requirements in NR-U	16.5.0
2020-09	RAN#88	RP-201506	1012	2	В	CR to TS 38.133 to address NR-U inter-frequency measurements	16.5.0
2020-09	RAN#88	RP-201512	1015	1	F	CR 38.133 (8.3.2-3) Corrections to SCell activation delay requirements	16.5.0
2020-09	RAN#88	RP-201494	1016	1	В	CR 38.133 (8.3.9-8.3.11) Direct SCell activation delay for multiple downlink SCells	16.5.0
2020-09	RAN#88	RP-201494	1017	2	F	CR 38.133 SCell dormancy switching of multiple SCells	16.5.0
2020-09	RAN#88	RP-201494	1018		В	CR on delay requirements for SCell dormancy	16.5.0
2020-09	RAN#88	RP-201498	1020	1	В	CR on inter-frequency CSI-RS L3 measurement requirements	16.5.0
2020-09	RAN#88	RP-201512	1023	-	A	Clarification of SNR values in RLM Test cases	16.5.0
2020-09	RAN#88	RP-201512	1025		A	CR to TS 38.133: Corrections to CSI-RS configurations in A.3.14	16.5.0
						(Rel-16)	
2020-09	RAN#88	RP-201512	1027		Α	CR to TS 38.133: Corrections to event triggered test cases (Rel-16)	16.5.0
2020-09	RAN#88	RP-201512	1029		Α	CR to TS 38.133: Corrections to inter-RAT test cases (Rel-16)	16.5.0
2020-09	RAN#88	RP-201512	1031		Α	CR to TS 38.133: Corrections to AoA setup information in some test cases (Rel-16)	16.5.0
2020-09	RAN#88	RP-201512	1033		Α	CR on maintaining handover tests in Rel-16	16.5.0
2020-09	RAN#88	RP-201500	1039	1	F	CR on maintaining measurement restriction requirements for NR CA	16.5.0
2020-09	RAN#88	RP-201500	1041	3	F	CR on BWP switching delay on mulitple CCs	16.5.0
2020-09	RAN#88	RP-201506	1042	2	F	CR on active TCI state switching for NR-U	16.5.0
2020-09	RAN#88	RP-201506	1043	2	В	CR on introduction of intra-frequency measurements requirements	16.5.0
2020-09	RAN#88	RP-201506	1044	1	В	for NR-U CR on introduction of Active BWP switching delay requirements for	16.5.0
						NR-U	
2020-09	RAN#88	RP-201506	1045	1	В	CR on introduction of RRC_IDLE state mobility requirements for NR-U	16.5.0
2020-09	RAN#88	RP-201506	1046	1	В	Discussion on RRC re-establishment for NR-U	16.5.0
2020-09	RAN#88	RP-201512	1048		Α	CR on reporting criteria for EN-DC in 38.133 R15	16.5.0
2020-09	RAN#88	RP-201512	1050		Α	CR on test cases for Active TCI state switch delay R15	16.5.0
2020-09	RAN#88	RP-201512	1052		Α	Addition of new default configurations for RMC scheduling_r16	16.5.0
2020-09	RAN#88	RP-201512	1054		Α	Correction to beam failure detection and link recovery test cases r16	16.5.0
2020-09	RAN#88	RP-201512	1056		Α	Correction to BWP switching delay test cases_r16	16.5.0
2020-09	RAN#88	RP-201512	1058		Α	Correction to FR1 intra-frequency measurement with gap test cases r16	16.5.0
2020-09	RAN#88	RP-201512	1060		Α	Correction to inter-RAT HO test cases r16	16.5.0
2020-09	RAN#88	RP-201498	1064	2	В	CR on CSI-RS based intra-frequency measurement requirements	16.5.0
2020-09	RAN#88	RP-201500	1066	1	F	Correction on the interruption requirements due to SRS carrier switching	16.5.0
2020-09	RAN#88	RP-201500	1067	1	F	CSSF for inter-frequency measurement without gap in FR2 inter- band CA sceneario	16.5.0
2020-09	RAN#88	RP-201512	1070		Α	CR on correction to CSSF within gap R16	16.5.0
2020-09	RAN#88	RP-201512	1072		Α	CR on SCell activation requirements R16	16.5.0
2020-09	RAN#88	RP-201512	1075		A	CR on UL BWP configuration for RRM test cases R16	16.5.0
2020-09	RAN#88	RP-201512	1077		A	CR to add UE beam assumption for TC in A.5.6 R16	16.5.0
2020-09	RAN#88	RP-201506	1078		F	CR on reporting criteria for CLI	16.5.0
2020-09	RAN#88	RP-201494	1080	1	В	CR on direct SCell activation	16.5.0
2020-09	RAN#88	RP-201494	1081	2	F	CR on requirements for SCell dormancy	16.5.0
2020-09	RAN#88	RP-201491	1082	1	В	CR for general applicability of PRS measurement requirements	16.5.0
2020-09	RAN#88	RP-201491	1082	2	В	CR for measurement requirements for PRS-RSRP	16.5.0
2020-09	RAN#88	RP-201491	1085	2	В	CR to add CSI-RS related reporting criteria for ECID	16.5.0
2020-09	RAN#88	RP-201491	1088	2	F	Correction CR to Rel-16 UE power saving requirements	16.5.0
2020-09	RAN#88	RP-201506	1090		F	Correction to RACH delay in RRC release requirements in NR-U in	16.5.0
2020-09	RAN#88	RP-201512	1097		Α	38.133 CR to 38.133 correction to RRC based BWP switch delay	16.5.0
2020-09	RAN#88	RP-201512	1099		Α	requirements CR to 38.133 correction to interruption requirements for per-FR	16.5.0
2020-09	RAN#88	RP-201500	1100		В	gap in FR2 CR to 38.133 on CGI reading of NR cell	16.5.0
2020-09	RAN#88	RP-201497	1101		F	CR to TS 38.133: Corrections to Table 9.4.3.3-2 in subclause	16.5.0
2020 20	DANUGO	DD 004500	1100	_	<u> </u>	9.4.3.3 (Requirements when DRX is used)	40.50
2020-09	RAN#88	RP-201506	1102	2	В	Introduction of RLM requirements for NR-U	16.5.0
2020-09	RAN#88	RP-201491	1103	2	В	Measurement report mapping and additional path reporting for UE Rx-Tx	16.5.0
2020-09	RAN#88	RP-201491	1104	2	В	Measurement report mapping and additional path reporting for RSTD	16.5.0
2020-09	RAN#88	RP-201491	1106	1	F	Reporting criteria for NR positioning measurements	16.5.0
2020-09	RAN#88	RP-201491	1107		F	General introduction of NR positioning measurements	16.5.0
2020-09	RAN#88	RP-201498	1108	1	В	CR on scheduling restriction for CSI-RS based intra-frequency	16.5.0
						measurement	

2020.00	DAN#00	DD 201507	14444	1		ICDI Deplesing v in references with correct numbers (Core D46	16 F O
2020-09	RAN#88	RP-201507	1111		F	[CR] Replacing x in references with correct numbers (Core R16 Cat F)	16.5.0
2020-09	RAN#88	RP-201512	1113		Α	[CR] Replacing x in references with correct numbers (Core R16 Cat A)	16.5.0
2020-09	RAN#88	RP-201512	1114		Α	[CR] Replacing x in references with correct numbers (Perf R16 Cat A)	16.5.0
2020-09	RAN#88	RP-201512	1116		Α	Fine/rough beam assumption for idle mode and measurement	16.5.0
2020-09	RAN#88	RP-201512	1117		Α	procedure test case CR on BWP switching delay requirements R16	16.5.0
2020-12	RAN#90	RP-202433	1108	4	В	CR on scheduling restriction for CSI-RS based intra-frequency	16.6.0
			1119	'		measurement	
2020-12 2020-12	RAN#90 RAN#90	RP-202487 RP-202487	1121		A	RB allocation and Noc level in RLM Test cases Update FR2 event-triggered reporting Test cases in A.5.6, A.7.6	16.6.0 16.6.0
2020-12	RAN#90	RP-202487	1123		A	240kHz SSB SCS Configuration for FR2 SS-RSRP Test cases	16.6.0
2020-12	RAN#90	RP-202487	1125		Α	Correct UE beam assumption for Test Cases in A.5.6	16.6.0
2020-12	RAN#90	RP-202487	1127		Α	Aggregation level of CORESET for RMC scheduling	16.6.0
2020-12	RAN#90	RP-202487	1129		Α	Claify FR1 NSA SS-SINR measurement TCs	16.6.0
2020-12	RAN#90	RP-202487	1131		Α	FR1 Inter-frequency Event triggered Reporting tests in DRX	16.6.0
2020-12	RAN#90	RP-202487	1133		Α	E-UTRAN	16.6.0
2020-12	RAN#90	RP-202419	1138		F	CR for DAPS HO test applicability	16.6.0
2020-12	RAN#90	RP-202487	1139		F	Maintenance CR on SA inter-frequency event triggered reporting tests for FR1	16.6.0
2020-12	RAN#90	RP-202433	1140	1	F	CR on CSSF with both CSI-RS and SSB	16.6.0
2020-12	RAN#90	RP-202444	1146		Α	CR on CSI-RS BW condition for BFD/CBD R16	16.6.0
2020-12	RAN#90	RP-202444	1148	4	A	CR on AP-CSI-RS based L1-RSRP measurement R16	16.6.0
2020-12 2020-12	RAN#90 RAN#90	RP-202427 RP-202436	1152 1155	1	F	CR of NR V2X operating band group CR on TS38.133 for dual active protocol stack handover	16.6.0 16.6.0
2020-12	RAN#90	RP-202430	1156	2	F	CR on TS38.133 interruption time for CA with non-aligned frame	16.6.0
				_		boundaries	
2020-12	RAN#90	RP-202444	1158		F	CR on TS38.133 for inter-frequency measurement requirement without gap	16.6.0
2020-12	RAN#90	RP-202487	1160		Α	CR on TS38.133 for cell activation and deactivation test case	16.6.0
2020-12	RAN#90	RP-202487	1162		Α	CR on TS38.133 for cell reselection test case	16.6.0
2020-12	RAN#90	RP-202487	1164		Α	CR on TS38.133 for active BWP switch test cases	16.6.0
2020-12 2020-12	RAN#90 RAN#90	RP-202487 RP-202509	1165 1166		F	CR on TS38.133 for E-UTRAN CR on TS38.133 for SCell activation and deactivation delay test	16.6.0 16.6.0
						cases	
2020-12	RAN#90	RP-202487	1168	4	Α	CR for TS38.133 Rel-16, Correction for RRM core and test cases	16.6.0
2020-12 2020-12	RAN#90	RP-202433 RP-202442	1171	1	F	CR on abbreviations about CSI-RS based measurement in 38.133. CR to TS 38.133: Add information on the inter-band EN-DC and	16.6.0
2020-12	RAN#90	KF-202442	1184			UL CA configurations with no DL interruption	16.6.0
2020-12	RAN#90	RP-202433	1186	1	F	CR on R16 CSI-RS based L3 measurements	16.6.0
2020-12	RAN#90	RP-202419	1187	2	В	Intra-band Inter-frequency sync DAPS handover test in SA for FR1	16.6.0
2020-12	RAN#90	RP-202427	1191	1	F	CR: Interruption requirement for NR V2X synchronization source chang	16.6.0
2020-12	RAN#90	RP-202432	1193		F	Fine/rough beam assumption for CLI performance test cases	16.6.0
2020-12	RAN#90	RP-202435	1194	1	F	38.133 CR on CSSFintra for measurement period for intra- frequency measurements in connected mode for Rel-16 NR HST	16.6.0
2020-12	RAN#90	RP-202486	1196		Α	CR on carrier frequency range of PCell/PSCell for the maximum	16.6.0
2020-12	RAN#90	RP-202487	1209		Α	number of RLM-RS resources Correction on beamFailureInstanceMaxCount for test cases of	16.6.0
2020 42	DANHOO	DD 202444	4040	4	_	availability restriction during FR2 BFR in R16	40.00
2020-12 2020-12	RAN#90 RAN#90	RP-202444 RP-202415	1212 1213	1	F B	Correction on unknown SCell activation in FR2. Big CR on 2-step RA type RRM performance requirements	16.6.0 16.6.0
2020-12	RAN#90	RP-202413	1214	1	F	CR Maintenance 2-step RACH RRM requirements	16.6.0
2020-12	RAN#90	RP-202487	1216	Ė	A	Correction of RRM tests	16.6.0
2020-12	RAN#90	RP-202435	1217	1	F	CR on IDLE state cell re-selection requirements for HST in 38.133	16.6.0
2020-12	RAN#90	RP-202487	1225		Α	Correction to types of requirements in annex A	16.6.0
2020-12	RAN#90	RP-202487	1227		Α	Corrections to frequency range in interfrequency measurement procedures tests	16.6.0
2020-12	RAN#90	RP-202487	1230		Α	Correction on TBD values in FR1+FR2 interfrequency RSRP	16.6.0
2020-12	RAN#90	RP-202486	1232		Α	accuracy tests Addition of symbol definitions	16.6.0
2020-12	RAN#90	RP-202487	1236		A	Square bracket removal in 38.133 section A.1 to A.5	16.6.0
	RAN#90	RP-202487	1238		Α	Square bracket removal in 38.133 section A.6 to A.8	16.6.0
2020-12			1240	1	В	Conditional handover test cases for NR	16.6.0
2020-12 2020-12	RAN#90	RP-202419	12.10				
2020-12 2020-12	RAN#90 RAN#90	RP-202414	1241		В	Updates to general section for NR-U in 38.133	16.6.0
2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90	RP-202414 RP-202486	1241 1250		Α	CR on MO merge	16.6.0
2020-12 2020-12	RAN#90 RAN#90	RP-202414	1241	1		·	
2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90 RAN#90	RP-202414 RP-202486 RP-202444	1241 1250 1252 1254	1	Α	CR on MO merge CR to TS 38.133 on DCI based BWP switch requirements for cross carrier scheduling CR on PRS-RSRP report mapping	16.6.0
2020-12 2020-12 2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90 RAN#90 RAN#90 RAN#90	RP-202414 RP-202486 RP-202444 RP-202441 RP-202487	1241 1250 1252 1254 1259		A F B A	CR on MO merge CR to TS 38.133 on DCI based BWP switch requirements for cross carrier scheduling CR on PRS-RSRP report mapping Correction to CSI-RS RMC configuration R16	16.6.0 16.6.0 16.6.0 16.6.0
2020-12 2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90 RAN#90	RP-202414 RP-202486 RP-202444	1241 1250 1252 1254		A F B	CR on MO merge CR to TS 38.133 on DCI based BWP switch requirements for cross carrier scheduling CR on PRS-RSRP report mapping	16.6.0 16.6.0

	1					<u> </u>	
2020-12	RAN#90	RP-202487	1265		Α	Correction to NR measurement under LTE SA test cases R16	16.6.0
2020-12	RAN#90	RP-202487	1267		Α	Correction to inter-RAT SFTD measurement test cases R16	16.6.0
	RAN#90	RP-202487					
2020-12	KAN#90	RP-202467	1271		Α	CR on maintaining BFD/CBD measurements test cases in	16.6.0
						TS38.133 R16	
2020-12	RAN#90	RP-202487	1273		F	CR on maintaining L1-RSRP measurements test cases R16	16.6.0
2020-12	RAN#90	RP-202446	1275	1	F	Correction CR to Rel-16 UE power saving requirements	16.6.0
				ı			
2020-12	RAN#90	RP-202442	1276		F	Correction on DL interruption on Tx Switching between two uplink	16.6.0
						carriers	
2020-12	RAN#90	RP-202433	1277	1	F	CR on CSI-RS based intra-frequency measurement requirements	16.6.0
						Occasion and DDO beautiful and force of the late.	
2020-12	RAN#90	RP-202444	1281		F	Correction on RRC based spatial relation switch delay	16.6.0
2020-12	RAN#90	RP-202487	1282		F	Correction on SA inter-RAT measurement FR1 test case	16.6.0
2020-12	RAN#90	RP-202444	1283	1	F	CR on BWP switching delay on mulitple CCs	16.6.0
				_			
2020-12	RAN#90	RP-202444	1284	1	F	CR on interruption due to active BWP switching on mulitple CCs	16.6.0
2020-12	RAN#90	RP-202414	1288	1	F	CR on TCI state switching requirements for NR-U	16.6.0
2020-12	RAN#90	RP-202414	1291		F	CR on intra-frequency measurement requirements for NR-U	16.6.0
2020-12			1296				
	RAN#90	RP-202486			Α	CR on RRC-based BWP switch requirements_R16	16.6.0
2020-12	RAN#90	RP-202487	1298		Α	CR on RRC-based active TCI state switch test case Rel-16	16.6.0
2020-12	RAN#90	RP-202425	1299		F	Update NR Frequency Band Groups to include Band n48	16.6.0
2020-12	RAN#90	RP-202439	1300		F	Update NR Frequency Band Groups to include Band n65	16.6.0
			1				
2020-12	RAN#90	RP-202446	1305		F	CR to 38.133: Correction to relaxed measurement requirements	16.6.0
2020-12	RAN#90	RP-202444	1306	1	F	CR to 38.133: Correction to relaxed measurement requirements	16.6.0
2020-12	RAN#90	RP-202444	1307	1	F	CR to 38.133: Correction to SRS carrier based switching	16.6.0
2020-12	I VAIN#30	131-202444	1307	'	'		10.0.0
			1		ļ	requirements	
2020-12	RAN#90	RP-202444	1308	1	F	CR to 38.133: Correction to mandatory gap pattern	16.6.0
2020-12	RAN#90	RP-202509	1309		F	[CR] NR Perf Maintenance R16 Cat F	16.6.0
2020-12	RAN#90	RP-202486	1311		Α	[CR] Specify RRC processing delay in TCI state switching delay	16.6.0
						(Cat A)	
2020-12	RAN#90	RP-202486	1317		Α	CR on SCell activation requirements R16	16.6.0
2020-12	RAN#90	RP-202487	1319		Α	CR on FR2 unkown SCell activation test cases R16	16.6.0
2020-12	RAN#90	RP-202487	1321		Α	CR on BWP in L1-RSRP delay and accuracy test cases R16	16.6.0
2020-12	RAN#90	RP-202430	1322	1	F	CR on BWP switching and SCell dormancy	16.6.0
2020-12	RAN#90	RP-202441	1324	1	F	CR to update PRS-RSRP measurement requirements	16.6.0
2020-12	RAN#90	RP-202444	1328	1	F	CR on CGI reading requirements 38.133	16.6.0
2020-12	RAN#90	RP-202509	1330		F	[CR] Specify RRC processing delay in TCI state switching delay	16.6.0
						for R16 NR-U	
2020-12	RAN#90	RP-202442	1331		F	Correction of CR0972 implementation	16.6.0
2020-12	RAN#90	RP-202487	1333		F	CR: Correction of CFRA test in FR2 SA	16.6.0
2020-12	RAN#90	RP-202434	1334	1	F	CR: Clarification of L1-SINR reporting with CSI-RS based CMR	16.6.0
						and dedicated IMR configured	
2020 42	D 4 N 1400	DD 000400	4000		_		1000
2020-12	RAN#90	RP-202486	1336		Α	Introducing reference to the source of the Lmax and NRLM.	16.6.0
2020-12	RAN#90	RP-202430	1338	2	F	CR on UE requirement for MR-DC early measurement reporting in	16.6.0
						38.133	
2020-12	RAN#90	RP-202444	1340		F	CR on measurement restrictions for FR2 inter-band CA	16.6.0
2020-12	RAN#90	RP-202487	1342		Α	CR to TS 38.133: Corrections to inter-RAT FR1 test cases (Rel-16)	16.6.0
2020-12	RAN#90	RP-202487	1344		Α	CR to TS 38.133: Corrections to inter-RAT FR2 test cases (Rel-16)	16.6.0
2020-12	RAN#90	RP-202436	1346		F	CR 38.133 Corrections to Conditional PSCell Change delay	16.6.0
2020 12	10 (14)//00	111 202-100	10-10		'		10.0.0
						requirement	
2020-12	RAN#90	RP-202444	1347		F	CR 38.133 Removal of brackets for Multiple SCell activation	16.6.0
2020-12	RAN#90	RP-202430	1348	1	F	CR 38.133 Removal of brackets for SCell Dormancy and Direct	16.6.0
1			1			SCell Activation	
2020 42	DANHOO	DD 000407	1050	1	^		10.00
2020-12	RAN#90	RP-202487	1350	ļ	Α	CR 38.133 Correction to test case for TCI state switching (Rel-16)	16.6.0
2020-12	RAN#90	RP-202418	1358	1	F	gNB timing positioning measurement report mapping update for k	16.6.0
2020-12	RAN#90	RP-202446	1360	1	F	Corrections to UE power saving requirements	16.6.0
2020-12	RAN#90	RP-202487	1364	<u> </u>	A	Removal of annex B.2.6 on one shot timing adjustment in 38.133	16.6.0
				1			
2020-12	RAN#90	RP-202487	1366		F	Correction to NR FR1 DL active BWP switch of Cell with non-DRX	16.6.0
	<u> </u>		1	<u></u>	<u></u>	in SA (A.6.5.6.2.1)	
2020-12	RAN#90	RP-202444	1367	1	F	Correction to RRC based non-simultaneous multiple CC BWP	16.6.0
2020-12	RAN#90	RP-202414	1369	<u> </u>	F	Requirements for known cell in RRC re-establishment with CCA	16.6.0
				 			
2020-12	RAN#90	RP-202435	1370		F	CR to TS 38.133: Corrections to Tables 9.5.4.1-1 and 9.5.4.2-1.	16.6.0
2020-12	RAN#90	RP-202486	1372	1	Α	CR to 38.133 on Active BWP switch and Active TCI State	16.6.0
			1			Switching requirements - Rel16	
2020 42	DANI#00	DD 202444	1075	2	-	LIE positioning magazinements: DCTD	16.6.0
2020-12	RAN#90	RP-202441	1375	2	F	UE positioning measurements: RSTD	16.6.0
2020-12	RAN#90	RP-202414	1384	1	F	Terminology updates for NR-U	16.6.0
2020-12	RAN#90	RP-202414	1387		F	Clause numbering correction	16.6.0
			1390	1	F	Measurement requirements for NR-U	16.6.0
	RVN#00		1000	<u> </u>			
2020-12	RAN#90	RP-202414	400.	1	F	Correction in NR SRS carrier-based switching requirements	16.6.0
2020-12 2020-12	RAN#90	RP-202444	1391				
2020-12	RAN#90	RP-202444	1391 1393	1	В		16.6.0
2020-12 2020-12				1	В	Introduction of intra-frequency sync and async DAPS HO test	16.6.0
2020-12 2020-12 2020-12	RAN#90 RAN#90	RP-202444 RP-202419	1393			Introduction of intra-frequency sync and async DAPS HO test cases in FR1	
2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90	RP-202444 RP-202419 RP-202430	1393 1400	1	F	Introduction of intra-frequency sync and async DAPS HO test cases in FR1 CR to Multi-SCell activation for FR1 intra-band contiguous CA	16.6.0
2020-12 2020-12 2020-12	RAN#90 RAN#90	RP-202444 RP-202419	1393			Introduction of intra-frequency sync and async DAPS HO test cases in FR1	
2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90	RP-202444 RP-202419 RP-202430	1393 1400		F	Introduction of intra-frequency sync and async DAPS HO test cases in FR1 CR to Multi-SCell activation for FR1 intra-band contiguous CA CR to Staring point of an Interruption window at Direct SCell	16.6.0
2020-12 2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90 RAN#90	RP-202444 RP-202419 RP-202430 RP-202430	1393 1400 1401	1	F	Introduction of intra-frequency sync and async DAPS HO test cases in FR1 CR to Multi-SCell activation for FR1 intra-band contiguous CA CR to Staring point of an Interruption window at Direct SCell activation	16.6.0 16.6.0
2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90	RP-202444 RP-202419 RP-202430	1393 1400		F	Introduction of intra-frequency sync and async DAPS HO test cases in FR1 CR to Multi-SCell activation for FR1 intra-band contiguous CA CR to Staring point of an Interruption window at Direct SCell activation Interruption windows and applicability of Scell	16.6.0
2020-12 2020-12 2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90 RAN#90 RAN#90	RP-202444 RP-202419 RP-202430 RP-202430 RP-202414	1393 1400 1401 1403	1	F F	Introduction of intra-frequency sync and async DAPS HO test cases in FR1 CR to Multi-SCell activation for FR1 intra-band contiguous CA CR to Staring point of an Interruption window at Direct SCell activation Interruption windows and applicability of Scell activation/deactivation requirements for SCells operating with CCA	16.6.0 16.6.0
2020-12 2020-12 2020-12 2020-12 2020-12	RAN#90 RAN#90 RAN#90 RAN#90	RP-202444 RP-202419 RP-202430 RP-202430	1393 1400 1401	1	F	Introduction of intra-frequency sync and async DAPS HO test cases in FR1 CR to Multi-SCell activation for FR1 intra-band contiguous CA CR to Staring point of an Interruption window at Direct SCell activation Interruption windows and applicability of Scell	16.6.0 16.6.0

2020-12	RAN#90	RP-202414	1407		F	Correction to timing requirements in NR-U	16.6.0
2020-12	RAN#90	RP-202417	1407		В	Big CR: Introduction of Rel-16 NR UE Power Saving RRM	16.6.0
2020 12	10 11 17 00	14 202111	1.00			Performance requirements (TS 38.133)	10.0.0
2020-12	RAN#90	RP-202421	1410		В	Big CR: Introduction of Rel-16 NR FR1 RF WI RRM performance	16.6.0
						requirements	
2020-12	RAN#90	RP-202422	1411		В	Big CR: NR HST RRM performance requirements	16.6.0
2020-12	RAN#90	RP-202487	1413		Α	[CR] NR Perf Maintenance R16 Cat A	16.6.0
2021-03	RAN#91	RP-210116	1417		Α	[CR] RRM test case maintenance R16 Cat A	16.7.0
2021-03	RAN#91	RP-210116	1423		Α	Update FR2 Reference channels and OCNG for FR2 RRM Test	16.7.0
2024 02	D 4 N 14 O 4	DD 040446	1400		-	Cases	40.70
2021-03	RAN#91	RP-210116	1426		F	CR to FR1 SA SS-SINR measurement TCs	16.7.0
2021-03 2021-03	RAN#91 RAN#91	RP-210116 RP-210116	1429 1432		A	CR on E-UTRA carrier for EN-DC event triggered reporting tests Add missing FR2 Test case setups and Beam assumptions	16.7.0 16.7.0
2021-03	RAN#91	RP-210091	1436		F	[CR] Core maintenance for 38.133	16.7.0
2021-03	RAN#91	RP-210091	1445		F	CR on maintenance for inter-band FR2 CA RRM R16	16.7.0
2021-03	RAN#91	RP-210071	1447	1	F	CR on UE behavior for UE specific CBW change R16	16.7.0
2021-03	RAN#91	RP-210091	1449	1	В	CR on IDLE/INACTIVE RRM requirement with SMTC2-LP R16	16.7.0
2021-03	RAN#91	RP-210070	1455	1	F	CR to 38.133 on Link Recovery requirements (R16)	16.7.0
2021-03	RAN#91	RP-210070	1457	1	F	CR to 38.133 on Pathloss activation delay requirements (R16)	16.7.0
2021-03	RAN#91	RP-210091	1464	1	F	Interruption requirements maintenance in NR-DC (R16)	16.7.0
2021-03	RAN#91	RP-210077	1466	1	F	CR on HST core part maintenance	16.7.0
2021-03	RAN#91	RP-210076	1470	1	F	CR on CSI-RS based L3 measurement	16.7.0
2021-03	RAN#91	RP-210081	1477	1	F	CR on PRS RSTD measurement requirements	16.7.0
2021-03	RAN#91	RP-210116	1495		Α	Correction to cell reselection test case	16.7.0
2021-03	RAN#91	RP-210066	1497	1	F	Correction to cell reselection test case for UE Power saving	16.7.0
2021-03	RAN#91	RP-210073	1501		F	2-step RACH RRM performance requirements corrections	16.7.0
2021-03	RAN#91	RP-210116 RP-210072	1504	1	F	Update of DRX configuration in FR1 Event-triggered Test cases	16.7.0
2021-03	RAN#91	RP-210072	1506	1	В	Big CR-Introduction of NR V2X RRM performance requirements (Rel-16)	16.7.0
2021-03	RAN#91	RP-210070	1510		F	Correction on the measurement restriction for CSI-IM resource in	16.7.0
2021-03	IVAIN#31	IXI -210070	1310		'	R16	10.7.0
2021-03	RAN#91	RP-210116	1513		Α	Correction on PRACH configuration for FR2 Non-Contention	16.7.0
						based Random Access in R16	
2021-03	RAN#91	RP-210116	1516		Α	Correction on PRACH configuration for Beam Failure Detection	16.7.0
						and Link Recovery Test in R16	
2021-03	RAN#91	RP-210116	1519		Α	Correction on PRACH RMC for FR1 CSI-RS based Non-	16.7.0
						Contention based Random Access for BFR in R16	
2021-03	RAN#91	RP-210071	1521	1	F	Correction on scheduling availability and measurement restriction	16.7.0
2021-03	RAN#91	RP-210077	1526	1	F	on FR2 inter-band CA in R16 CR on HST RRM requirements in connected mode	16.7.0
2021-03	RAN#91	RP-210077	1533	1	F	CR to TS38.133 on L1-SINR measurement requirement	16.7.0
2021-03	RAN#91	RP-210070	1535		В	Big CR: Introduction of Rel-16 NR eMIMO RRM performance	16.7.0
2021-03	TVAIN#31	111 -210004	1000			requirements and test cases	10.7.0
2021-03	RAN#91	RP-210117	1538		Α	CR on Scell activation delay maintenance (R16)	16.7.0
2021-03	RAN#91	RP-210116	1546		Α	CR for test requirements correction of SA event triggered reporting	16.7.0
						tests for FR1 inter-frequency measurements with SSB time index	
						detection when DRX is used	
2021-03	RAN#91	RP-210117	1549		Α	CR on R15 remaining issues	16.7.0
2021-03	RAN#91	RP-210072	1551	1	В	CR on V2X interruption	16.7.0
2021-03	RAN#91	RP-210091	1555	1	F	CR for measurement period requirements correction	16.7.0
2021-03	RAN#91	RP-210122	1559	1	F	Update on interruption test cases for Tx switching R16	16.7.0
2021-03	RAN#91	RP-210076	1561	1	F	Maintenance CR for CSI-RS based L3 measurement requirements R16	16.7.0
2021-03	RAN#91	RP-210116	1564		Α	Correction on the power of the first preamble for random access in	16.7.0
2021 00	10 (14//01	14 210110	1004		/ \	EN-DC and SA in R16	10.7.0
2021-03	RAN#91	RP-210116	1567		Α	Correction on the time for Scell activation and CSI-report in R16	16.7.0
2021-03	RAN#91	RP-210116	1570		Α	Correction on the Noc level in TS38.133 in R16	16.7.0
2021-03	RAN#91	RP-210079	1577	1	F	CR on TS38.133 for Pcell change	16.7.0
2021-03	RAN#91	RP-210071	1585	1	F	CR on TS38.133 for inter-frequency measurement requirement	16.7.0
			ļ	<u> </u>		without gap	
2021-03	RAN#91	RP-210076	1596	2	F	38.133 CR on the CSI-RS based measurement requirements	16.7.0
2021-03	RAN#91	RP-210122	1599	1	В	Big CR: Introduction of Rel-16 NR RRM enhancements WI	16.7.0
2024.02	DAN#04	DD 040004	1604	4	Г	performance requirements and test cases (Rel-16)	16.7.0
2021-03 2021-03	RAN#91 RAN#91	RP-210084 RP-210084	1601 1603	1	B F	CR: Introduction of random access requirements with CCA CR: Beam management requirements with CCA	16.7.0 16.7.0
2021-03	RAN#91 RAN#91	RP-210084 RP-210117	1603	-	A	CR on the filter for beam failure indications in 38.133	16.7.0
2021-03	RAN#91	RP-210081	1608	1	F	CR to TS 38.133 on UE Rx-Tx time difference measurements	16.7.0
2021.00	10 11 11/01	1.1 210001	.555	'	Ι΄.	(section 9.9.4)	. 5.7.0
2021-03	RAN#91	RP-210091	1609	1	F	Maintenance CR on interruption at EUTRA SRS carrier switching	16.7.0
						in 38.133	
2021-03	RAN#91	RP-210091	1610	1	F	Maintenance CR on SCell activation delay requirement in	16.7.0
			ļ	<u> </u>		TS38.133	
2021-03	RAN#91	RP-210116	1615		Α	Correction to Aperiodic CSI-RS configurations R16	16.7.0
2021-03	RAN#91	RP-210116	1618		Α	Correction to radio link monitoring test cases R16	16.7.0

2021-03 RAM#91 RP-21016 1624	1	T		1				1
2021-03 RAN#91 RP-210084 630 F CR on measurement requirements for NR-U 16.70	2021-03	RAN#91	RP-210116	1621		Α	Correction to beam failure recovery test cases R16	16.7.0
2021-03 RAN#91 RP-21012 635								
2021-03 RAN#91 RP-21012 638 A CR on test requirements for measurement performance tests R16 16.70						F	'	16.7.0
2021-03 RAN#91 RP-210071 6462 1 F CR on maintaining L1-SINIX measurement requirements Rel-16 16.7.0						Α		
2021-03 RAN#91 RP-210071 1637 F Correction on interruptions of SRS carrier switching 16.7.0						Α		
2021-03 RAN#91 RP-21016 165.1 1 F U. spatial relation switching to an unknown DL RS 167.0 2021-03 RAN#91 RP-21016 165.4 A Correction on test cases of inter-frequency Measurements R16 16.7.0 2021-03 RAN#91 RP-210021 1659 1 F Correction on test cases of DL interruptions at switching between two uplink carriers 16.7.0 2021-03 RAN#91 RP-210072 1671 F CR to 38.133 correction on CSF for NR measurements for positioning 16.7.0 2021-03 RAN#91 RP-210085 1673 1 F Correction on Inter-RAT E-UTRAN cells for UE configured with relaxed measurement requirements 16.7.0 2021-03 RAN#91 RP-210066 1674 1 F Test case for relaxed measurement requirements 16.7.0 2021-03 RAN#91 RP-210076 1678 F Correction on CSS-Foutsidegap 16.7.0 2021-03 RAN#91 RP-210077 1682 F Correction on inter-RAT e-UTRAN cells for UE configured with relaxed measurement in high speed scenario 16.7.0					1	F	CR on maintaining L1-SINR measurent requirements Rel-16	
2021-03 RAN#91 RP-21012 1659 J A Correction on test cases of inter-frequency Measurements R16 16.7.0 2021-03 RAN#91 RP-21012 1659 J F Correction on test cases of DL interruptions at switching between Nov uplink carriers 16.7.0 2021-03 RAN#91 RP-210081 1669 2 F CR to 38.133 correction on CCSF for NR measurements for positioning 16.7.0 2021-03 RAN#91 RP-210085 1673 1 F Correction on inter-RAT E-UTRAN cells for UE configured with 16.7.0 2021-03 RAN#91 RP-210086 1674 1 F Test case for cell reselection to FR2 intra-frequency NR case for UE configured with relaxed measurement 16.7.0 2021-03 RAN#91 RP-210086 1674 1 F Test case for cell reselection to FR2 intra-frequency NR case for UE configured with relaxed measurement in high speed scenario 16.7.0 2021-03 RAN#91 RP-210077 1682 F Correction on CSSFoutsidegap 16.7.0 2021-03 RAN#91 RP-210081 1692 F Correction on Selection to FR2 intra-frequency NR case for MR. 16.7.0 16.7.0 2021-03 <t< td=""><td></td><td></td><td></td><td>1647</td><td></td><td>F</td><td></td><td>16.7.0</td></t<>				1647		F		16.7.0
RAN#91 RP-210122 1659 1	2021-03	RAN#91	RP-210071	1651	1	F	UL spatial relation switching to an unknown DL RS	16.7.0
				1654		Α		
Dositioning	2021-03	RAN#91	RP-210122	1659	1	F		16.7.0
RAN#91 RP-210085 1673 1 F Correction on inter-RAT E-UTRAN cells for UE configured with relaxed measurement criterion 16.7.0	2021-03	RAN#91	RP-210081	1669	2	F		16.7.0
2021-03 RAN#91 RP-210085 1673 1 F Correction on inter-RAT E-UTRAN cells for UE configured with 16.7.0	2021-03	RAN#91	RP-210072	1671		F		16.7.0
2021-03 RAN#91 RP-210066 1674 1 F Test case for cell reselection to FR2 intra-frequency NR case for UE configured with relaxed measurement 16.7.0	2021-03	RAN#91	RP-210085	1673	1	F	Correction on inter-RAT E-UTRAN cells for UE configured with	16.7.0
2021-03 RAN#91 RP-210076 1678 F Correction on CSSFoutsidegap 16.7.0	2021-03	RAN#91	RP-210066	1674	1	F	Test case for cell reselection to FR2 intra-frequency NR case for	16.7.0
2021-03 RAN#91 RP-210077 1682 F Correction on inter-RAT measurement in high speed scenario 16.7.0 2021-03 RAN#91 RP-210084 1692 F Maintenance CR for NR-U core requirements 16.7.0 2021-03 RAN#91 RP-210087 1698 F Correction of band group notation for FR2 16.7.0 2021-03 RAN#91 RP-210087 1700 F Correction to Idle Mode CA/DC Measurements for Inactive mode in Cr.0 16.7.0 2021-03 RAN#91 RP-210087 1702 F Correction to Idle Mode CA/DC Measurements for Inactive mode incommental for Inactive mode in Cr.0 16.7.0 2021-03 RAN#91 RP-210087 1702 F Correction to Idle Mode CA/DC Measurements for Inactive mode incommental for Cr.0 16.7.0 2021-03 RAN#91 RP-210087 1702 F Correction to Idle Mode CA/DC Measurements for Inactive mode incommental for Cr.0 16.7.0 2021-03 RAN#91 RP-21016 1713 A CR to TS 38.133: Stedundant and incorrect TCI state in tests with for number for Inactive mode in Cr.0 16.7.0 2021-03 RAN#9	2021-03	RAN#91	RP-210076	1678		F		16.7.0
2021-03 RAN#91 RP-210084 1692 F Maintenance CR for NR-U core requirements 16.7.0 2021-03 RAN#91 RP-210091 1696 F Correction of band group notation for FR2 16.7.0 2021-03 RAN#91 RP-210087 1700 F Correction to Idle Mode CA/DC Measurements for lnactive mode 16.7.0 2021-03 RAN#91 RP-210087 1700 F CR clarifying the UE measurement requirements for an SCell with dormant BWP 2021-03 RAN#91 RP-210116 1713 A CR to TS 38.133: Redundant and incorrect TCI state in tests with TRS (Rel-16) 16.7.0 2021-03 RAN#91 RP-210116 1716 A CR to TS 38.133: Corrections to TC A.4.5.7.1 (Rel-16) 16.7.0 2021-03 RAN#91 RP-210011 1720 1 F CR 38.133 (8.6.2A) Clarification on DCI-triggered BWP switch on multiple CCs 16.7.0 2021-03 RAN#91 RP-210084 1722 1 F Updates in RLM requirements for NR-U 16.7.0 2021-03 RAN#91 RP-210084 1732 2 F								
2021-03								
2021-03								
RAN#91 RP-210087 1700 F CR clarifying the UE measurement requirements for an SCell with dormant BWP								
Content BWP Correction to simultaneous DCI based BWP switch delay on multiple CCs CCs								
Multiple CCs						-	dormant BWP	
TRS (Rel-16)	2021-03		RP-210087			F	multiple CCs	
2021-03	2021-03	RAN#91	RP-210116	1713		Α		16.7.0
Multiple CCs Multiple CCs Multiple CCs	2021-03	RAN#91	RP-210116	1716		Α		16.7.0
2021-03 RAN#91 RP-210084 1726 1 F Terminology updates for NR-U in 38.133 16.7.0 2021-03 RAN#91 RP-210081 1732 2 F PRS-RSRP measurement requirements 16.7.0 2021-03 RAN#91 RP-210084 1738 F Applicability of RA with CCA on RRM requirements in NR-U in 38.133 16.7.0 2021-03 RAN#91 RP-210084 1743 F CR on Active TCI state switching for NR-U 16.7.0 2021-03 RAN#91 RP-210071 1745 F CR on maintenance on BWP switch requirements on multiple CCs 16.7.0 2021-03 RAN#91 RP-210116 1750 A CR on test cases for inter-RAT measurement r16 16.7.0 2021-03 RAN#91 RP-210117 1753 A CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16 16.7.0 2021-03 RAN#91 RP-210087 1758 F CR on SCell activation TCs R16 16.7.0 2021-03 RAN#91 RP-210087 1760 1 F </td <td>2021-03</td> <td>RAN#91</td> <td>RP-210071</td> <td>1720</td> <td>1</td> <td>F</td> <td></td> <td>16.7.0</td>	2021-03	RAN#91	RP-210071	1720	1	F		16.7.0
2021-03 RAN#91 RP-210081 1732 2 F PRS-RSRP measurement requirements 16.7.0 2021-03 RAN#91 RP-210084 1738 F Applicability of RA with CCA on RRM requirements in NR-U in 38.133 16.7.0 2021-03 RAN#91 RP-210084 1743 F CR on Active TCI state switching for NR-U 16.7.0 2021-03 RAN#91 RP-210071 1745 F CR on maintenance on BWP switch requirements on multiple CCs 16.7.0 2021-03 RAN#91 RP-210116 1750 A CR on test cases for inter-RAT measurement r16 16.7.0 2021-03 RAN#91 RP-210117 1753 A CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16 16.7.0 2021-03 RAN#91 RP-210116 1756 A CR on SCell activation TCs R16 16.7.0 2021-03 RAN#91 RP-210087 1758 F CR on EMR requirement maintenance in 38.133 16.7.0 2021-03 RAN#91 RP-210071 1770 1 F <t< td=""><td>2021-03</td><td>RAN#91</td><td>RP-210084</td><td>1722</td><td>1</td><td>F</td><td>Updates in RLM requirements for NR-U</td><td>16.7.0</td></t<>	2021-03	RAN#91	RP-210084	1722	1	F	Updates in RLM requirements for NR-U	16.7.0
RAN#91 RP-210084 1738 F Applicability of RA with CCA on RRM requirements in NR-U in 38.133 16.7.0	2021-03	RAN#91	RP-210084	1726	1	F	Terminology updates for NR-U in 38.133	16.7.0
38.133 3	2021-03	RAN#91	RP-210081	1732	2	F	PRS-RSRP measurement requirements	16.7.0
2021-03 RAN#91 RP-210071 1745 F CR on maintenance on BWP switch requirements on multiple CCs 16.7.0 2021-03 RAN#91 RP-210116 1750 A CR on test cases for inter-RAT measurement r16 16.7.0 2021-03 RAN#91 RP-210117 1753 A CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16 16.7.0 2021-03 RAN#91 RP-210116 1756 A CR on SCell activation TCs R16 16.7.0 2021-03 RAN#91 RP-210087 1758 F CR on EMR requirement maintenance in 38.133 16.7.0 2021-03 RAN#91 RP-210087 1760 1 F CR on SCell dormancy switching 16.7.0 2021-03 RAN#91 RP-210071 1770 1 F CR on CGI reading requirements 38.133 16.7.0 2021-03 RAN#91 RP-210071 1772 1 F CR on CGI reading requirements 38.133 16.7.0 2021-03 RAN#91 RP-2100116 1780 A Cat-A CR to ad	2021-03	RAN#91	RP-210084	1738		F		16.7.0
2021-03 RAN#91 RP-210071 1745 F CR on maintenance on BWP switch requirements on multiple CCs 16.7.0 2021-03 RAN#91 RP-210116 1750 A CR on test cases for inter-RAT measurement r16 16.7.0 2021-03 RAN#91 RP-210117 1753 A CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16 16.7.0 2021-03 RAN#91 RP-210116 1756 A CR on SCell activation TCs R16 16.7.0 2021-03 RAN#91 RP-210087 1758 F CR on EMR requirement maintenance in 38.133 16.7.0 2021-03 RAN#91 RP-210087 1760 1 F CR on SCell dormancy switching 16.7.0 2021-03 RAN#91 RP-210071 1770 1 F CR on CGI reading requirements 38.133 16.7.0 2021-03 RAN#91 RP-210071 1772 1 F CR on CGI reading requirements 38.133 16.7.0 2021-03 RAN#91 RP-2100116 1780 A Cat-A CR to ad	2021-03	RAN#91	RP-210084	1743		F	CR on Active TCI state switching for NR-U	16.7.0
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deactivated SCell and inter-RAT ECID requirements for NE-DC R16 R16	2021-03		RP-210116			Α	CR on test cases for inter-RAT measurement r16	16.7.0
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