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**LTE;
Evolved Universal Terrestrial Radio Access (E-UTRA);
Requirements on User Equipments (UEs)
supporting a release-independent frequency band
(3GPP TS 36.307 version 11.15.0 Release 11)**



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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

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

1 Scope

The present document specifies requirements on UEs supporting a frequency band and inter-band/intra-band CA configurations that are independent of release.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
 - [2] 3GPP TS 36.101 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
 - [3] 3GPP TS 36.133 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management".
 - [4] 3GPP TS 36.307 (Release 12): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) Supporting a release-independent frequency band".
 - [5] 3GPP TS 36.133 (Release 11): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management".
 - [6] 3GPP TS 36.101 (Release 11): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
 - [7] 3GPP TS 36.306 (Release 11): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".
 - [8] 3GPP TS 36.101 (Release 10): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
 - [9] 3GPP TS 36.101 (Release 13): "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Radio Transmission and Reception".
 - [10] 3GPP TS 36.133 (Release 13): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Radio Resource Management".
 - [11] 3GPP TS 36.307 (Release 13): "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) Supporting a release-independent frequency band".
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3 Definitions and Abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] apply.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3A General

TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release, and that the standardisations of new inter-band/intra-band CA configurations also may be independent of a release for Rel-10 upwards. However, in order to implement a UE that conforms to a particular release but supports a band of operation or carrier aggregation of particular inter-band/intra-band CA configurations that is specified in a later release, it is necessary to specify some extra requirements.

For example, Band 19 is contained in the Release 9 specifications. In order to implement a UE conforming to Release 8 but supporting Band 19, it is necessary for the UE to additionally conform to some parts of the Release 9 specifications, such as the radio frequency and radio resource management requirements for the Band 19.

For another example on carrier aggregations, CA configuration CA_1A-19A is contained in the Release 11 specifications. In order to implement a UE conforming to Release 10 but supporting the CA configuration CA_1A-19A, it is necessary for the UE to additionally conform to some parts of the Release 11 specifications, such as the radio frequency and radio resource management requirements for the CA configuration CA_1A-19A.

All frequency bands are fully specified in this release of the specifications. The present document does not contain any requirements for UEs supporting frequency bands independent of release.

NOTE: See NOTE in clause 4.4 in [6].

4 Void

5 Void

6 Void

7 Void

8 Void

9 Void

10 Void

11 Void

12 Void

13 Void

14 Void

15 Void

16 Void

17 Void

18 Void

19 CA configuration CA_41C Independent of Release

CA_41C is specified in Release 11, Release 12 and Release 13 but is defined as a release-independent E-UTRA CA configuration for Rel-10 upwards.

19.1 Band 41 UE

UEs that conform to Release 11 and support CA_41C shall support the following requirements in Release 13 for both one uplink and simultaneous transmission on two uplinks.

19.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_41C specified in [9], which are listed in Table B.4.2-1 of [11].:

Table 19.1.1-1: Void

19.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_41C specified in [10], which are listed in Table B.2.2-1 of [11].

Table 19.1.1-2: Void

19.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

20 CA configuration CA_1A-19A Independent of Release

CA configuration CA_1A-19A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

20.1 Void

20.2 CA_1A-19A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-19A with dual uplink shall support the following requirements in Release 12.

20.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 20.2.1-1: Void

20.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A specified in [3], which are listed in Table B.2.5-1 of [4].

20.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

21 CA configuration CA_7C Independent of Release

CA configuration CA_7C is specified in Release 11, Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

21.1 CA_7C UE

UEs that conform to Release 11 and support CA_7C shall support the following requirements in Release 13.

21.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7C specified in [9], which are listed in Table B.4.2-1 of [11].

Table 21.1.1-1: Void

21.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7C specified in [10], which are listed in Table B.2.2-1 of [11].

Table 21.1.1-2: Void

21.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

22 Void

23 CA configuration CA_1A-18A Independent of Release

CA configuration CA_1A-18A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-18A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

23.1 CA_1A-18A UE with single uplink

UEs that conform to Release 11 and support CA_1A-18A shall support the following requirements in Release 12.

23.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 23.1.1-1: Void

23.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 23.1.2-1: Void

23.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

23.2 CA_1A-18A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-18A with dual uplink shall support the following requirements in Release 13.

23.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A specified in [10], which are listed in Table B.4.6-1 of [11].

23.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A specified in [9] which are listed in Table B.2.5-1 of [11].

23.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A among the CA demodulation performance and CSI reporting requirements specified in [2].

24 CA configuration CA_1A-21A Independent of Release

CA configuration CA_1A-21A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

24.1 Void

24.2 CA_1A-21A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-21A with dual uplink shall support the following requirements in Release 12.

24.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-21A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 24.2.1-1: Void

24.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-21A specified in [3], which are listed in Table B.2.5-1 of [4].

24.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-21A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

25 CA configuration CA_3A-5A Independent of Release

CA configuration CA_3A-5A with 1UL/2DLs is specified in Release 11, Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-5A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

25.1 CA_3A-5A UE with single uplink

UEs that conform to Release 11 and support CA_3A-5A shall support the following requirements in Release 13.

25.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-5A specified in [9], which are listed in Table B.4.3-1 of [11].

Table 25.1.1-1: Void

25.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-5A specified in [10], which are listed in Table B.2.4-1 of [11].

Table 25.1.2-1: Void

25.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-5A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

25.2 CA_3A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-5A with dual uplink shall support the following requirements in Release 13.

25.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-5A specified in [9], which are listed in Table B.4.6-1 of [11].

Table 25.2.1-1: Void

25.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-5A specified in [10], which are listed in Table B.2.5-1 of [11].

25.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-5A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [4].

26 CA configuration CA_3A-7A Independent of Release

CA configuration CA_3A-7A with 1ULs/2DLs to support combination set 1 is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

26.1 CA_3A-7A UE with single uplink

UEs that conform to Release 11 and support CA_3A-7A with single uplink shall support the following requirements in Release 13.

26.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A specified in [9] which are listed in Table B.4.3-1 of [11].

26.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A specified in [10] which are listed in Table B.2.4-1 of [11].

26.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

26.2 CA_3A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-7A with dual uplink shall support the following requirements in Release 12.

26.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 26.2.1-1: Void

26.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

26.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

27 CA configuration CA_3A-20A Independent of Release

CA configuration CA_3A-20A with 1UL/2DLs is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-20A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

27.1 CA_3A-20A UE with single uplink

UEs that conform to Release 11 and support CA_3A-20A shall support the following requirements in Release 12.

27.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 27.1.1-1: Void

27.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

27.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

27.2 CA_3A-20A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-20A with dual uplink shall support the following requirements in Release 12.

27.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-20A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 27.2.1-1: Void

27.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-20A specified in [3], which are listed in Table B.2.5-1 of [4].

27.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-20A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

28 CA configuration CA_7A-20A Independent of Release

CA configuration CA_7A-20A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

28.1 Void

28.2 CA_7A-20A UE with dual uplink

UEs that conform to Release 11 and support CA_7A-20A with dual uplink shall support the following requirements in Release 12.

28.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-20A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 28.2.1-1: Void

28.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-20A specified in [3], which are listed in Table B.2.5-1 of [4].

28.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-20A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

29 Void

30 Void

31 CA configuration CA_2A-29A Independent of Release

CA configuration CA_2A-29A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

31.1 CA_2A-29A UE

UEs that conform to Release 11 and support CA_2A-29A shall support the following requirements in Release 12.

31.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-29A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 31.1.1-1: Void

31.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-29A specified in [3], which are listed in Table B.2.4-1 of [4].

31.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

32 CA configuration CA_4A-29A Independent of Release

CA configuration CA_4A-29A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

32.1 CA_4A-29A UE

UEs that conform to Release 11 and support CA_4A-29A shall support the following requirements in Release 12.

32.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-29A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 32.1.1-1: Void

32.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-29A specified in [3], which are listed in Table B.2.4-1 of [4].

32.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

33 CA configuration CA_3A-8A Independent of Release

CA configuration CA_3A-8A with 1UL/2DLs is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-8A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

33.1 CA_3A-8A UE with single uplink

UEs that conform to Release 11 and support CA_3A-8A shall support the following requirements in Release 12.

33.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 33.1.1-1: Void

33.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-8A specified in [3], which are listed in Table B.2.4-1 of [4].

33.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

33.2 CA_3A-8A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-8A with dual uplink shall support the following requirements in Release 12.

33.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-8A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 33.2.1-1: Void

33.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-8A specified in [3], which are listed in Table B.2.5-1 of [4].

33.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-8A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

34 CA configuration CA_4A-5A Independent of Release

CA configuration CA_4A-5A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_4A-5A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

34.1 CA_4A-5A UE with single uplink

UEs that conform to Release 11 and support CA_4A-5A shall support the following requirements in Release 12.

34.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 34.1.1-1:

34.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 34.1.2-1: Void

34.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

34.2 CA_4A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-5A with dual uplink shall support the following requirements in Release 13.

34.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A specified in [10], which are listed in Table B.4.6-1 of [11].

34.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A specified in [9] which are listed in Table B.2.5-1 of [11].

35 CA configuration CA_4A-12A Independent of Release

CA configuration CA_4A-12A with 1UL/2DLs is specified in Release 11, Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_4A-12A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

35.1 CA_4A-12A UE with single uplink

UEs that conform to Release 11 and support CA_4A-12A shall support the following requirements in Release 13.

35.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A specified in [9], which are listed in Table B.4.3-1 of [11].

Table 35.1.1-1: Void

35.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [10], which are listed in Table B.2.4-1 of [11].

Table 35.1.2-1: Void

35.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

35.2 CA_4A-12A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-12A with dual uplink shall support the following requirements in Release 12.

35.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A specified in [9], which are listed in Table B.4.6-1 of [11].

Table 35.2.1-1: Void

35.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [10], which are listed in Table B.2.5-1 of [11].

35.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

36 CA configuration CA_4A-13A Independent of Release

CA configuration CA_4A-13A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

36.1 Void

36.2 CA_4A-13A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-13A with dual uplink shall support the following requirements in Release 12.

36.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-13A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 36.2.1-1: Void

36.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-13A specified in [3], which are listed in Table B.2.5-1 of [4].

36.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-13A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

37 CA configuration CA_4A-17A Independent of Release

CA configuration CA_4A-17A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

37.1 Void

37.2 CA_4A-17A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-17A with dual uplink shall support the following requirements in Release 12.

37.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-17A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 37.2.1-1: Void

37.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-17A specified in [3], which are listed in Table B.2.5-1 of [4].

37.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-17A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

38 CA configuration CA_5A-12A Independent of Release

CA configuration CA_5A-12A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

38.1 Void

38.2 CA_5A-12A UE with dual uplink

UEs that conform to Release 11 and support CA_5A-12A with dual uplink shall support the following requirements in Release 12.

38.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-12A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 38.2.1-1: Void

38.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-12A specified in [3], which are listed in Table B.2.5-1 of [4].

38.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-12A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

39 CA configuration CA_5A-17A Independent of Release

CA configuration CA_5A-17A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

39.1 Void

39.2 CA_5A-17A UE with dual uplink

UEs that conform to Release 11 and support CA_5A-17A with dual uplink shall support the following requirements in Release 12.

39.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-17A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 39.2.1-1: Void

39.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-17A specified in [3], which are listed in Table B.2.5-1 of [4].

39.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-17A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

40 CA configuration CA_4A-7A Independent of Release

CA configuration CA_4A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

40.1 Void

40.2 CA_4A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-7A with dual uplink shall support the following requirements in Release 12.

40.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 40.2.1-1: Void

40.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

40.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-7A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

41 Void

42 Band 30 Independent of Release

Band 30 is specified in Release 12 but is defined as a release-independent frequency band. This approach aligns the Band 30 with other frequency bands when considering features that have to be supported in different releases.

42.1 Band 30 UE

UEs that conform to Release 11 and support Band 30 shall support the following requirements in Release 12.

42.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 30 specified in [2], which are listed in Table B.4.1-1 of [4].

Table 42.1.1-1: Void

42.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 30 specified in [3], which are listed in Table B.2.1-1 of [4].

Table 42.1.2-1: Void

42.1.3 Void

43 Band 31 Independent of Release

Band 31 is specified in Release 12 but is defined as a release-independent frequency band. This approach aligns the Band 31 with other frequency bands when considering features that have to be supported in different releases.

43.1 Band 31 UE

UEs that conform to Release 11 and support Band 31 shall support the following requirements in Release 12.

43.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 31 specified [2], which are listed in Table B.4.1-1 of [4].

Table 43.1.1-1: Void

43.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 31, for 5 MHz only, specified in [3], which are listed in Table B.2.1-1 of [4].

Table 43.1.2-1: Void

43.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the subset of demodulation performance and CSI reporting requirements specified in [2], which are listed in Table 43.1.3-2.

Table 43.1.3-1: Void

Table 43.1.3-2: Demodulation performance and CSI reporting requirements for Band 31 UE

Section / Clause	Description	Test case
8.2.1.1.1	Single-antenna port performance	6, 7, 8
8.2.1.2.1	Transmit diversity performance	1
8.2.1.3.1	Open-loop spatial multiplexing performance	2
8.2.1.4.1	Closed-loop spatial multiplexing performance	1A
8.2.1.4.2	Closed-loop spatial multiplexing performance	2A
8.5.1.2.1	Demodulation of PHICH	1A
9.2.1.1	CQI reporting definition under AWGN conditions	Table 9.2.1.1-2
9.3.2.1.1	CQI reporting under fading conditions	Table 9.3.2.1.1-3

44 CA configuration CA_1A-8A Independent of Release

CA configuration CA_1A-8A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-8A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

44.1 CA_1A-8A UE with single uplink

UEs that conform to Release 11 and support CA_1A-8A shall support the following requirements in Release 12.

44.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 44.1.1-1: Void

44.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-8A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 44.1.2-1: Void

44.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

44.2 CA_1A-8A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-8A with dual uplink shall support the following requirements in Release 12.

44.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 44.2.1-1: Void

44.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-8A specified in [3], which are listed in Table B.2.5-1 of [4].

44.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

45 CA configuration CA_2A-13A Independent of Release

CA configuration CA_2A-13A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_2A-13A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

45.1 CA_2A-13A UE with single uplink

UEs that conform to Release 11 and support CA_2A-13A shall support the following requirements in Release 12.

45.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 45.1.1-1: Void

45.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-13A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 45.1.2-1: Void

45.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

45.2 CA_2A-13A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-13A with dual uplink shall support the following requirements in Release 12.

45.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-13A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 45.2.1-1: Void

45.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-13A specified in [3], which are listed in Table B.2.5-1 of [4].

45.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-13A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

46 CA configuration CA_3A-19A Independent of Release

CA configuration CA_3A-19A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-19A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

46.1 CA_3A-19A UE with single uplink

UEs that conform to Release 11 and support CA_3A-19A shall support the following requirements in Release 12.

46.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 46.1.1-1: Void

46.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-19A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 46.1.2-1: Void

46.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

46.2 CA_3A-19A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-19A with dual uplink shall support the following requirements in Release 12.

46.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 46.2.1-1: Void

46.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-19A specified in [3], which are listed in Table B.2.5-1 of [4].

46.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

47 CA configuration CA_3A-26A Independent of Release

CA configuration CA_3A-26A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-26A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

47.1 CA_3A-26A UE with single uplink

UEs that conform to Release 11 and support CA_3A-26A shall support the following requirements in Release 12.

47.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-26A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 47.1.1-1: Void

47.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-26A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 47.1.2-1: Void

47.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

47.2 CA_3A-26A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-26A with dual uplink shall support the following requirements in Release 12.

47.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-26A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 47.2.1-1: Void

47.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-26A specified in [3], which are listed in Table B.2.5-1 of [4].

47.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-26A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

48 CA configuration CA_3A-28A Independent of Release

CA configuration CA_3A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

48.1 CA_3A-28A UE

UEs that conform to Release 11 and support CA_3A-28A shall support the following requirements in Release 12.

48.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 48.1.1-1: Void

48.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 48.1.2-1: Void

48.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

49 CA configuration CA_19A-21A Independent of Release

CA configuration CA_19A-21A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_3A-26A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

49.1 CA_19A-21A UE with single uplink

UEs that conform to Release 11 and support CA_19A-21A shall support the following requirements in Release 12.

49.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 49.1.1-1: Void

49.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-21A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 49.1.2-1: Void

49.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

49.2 CA_19A-21A UE with dual uplink

UEs that conform to Release 11 and support CA_19A-21A with dual uplink shall support the following requirements in Release 12.

49.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 49.2.1-1: Void

49.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-21A specified in [3], which are listed in Table B.2.5-1 of [4].

49.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

50 CA configuration CA_23A-29A Independent of Release

CA configuration CA_23A-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

50.1 CA_23A-29A UE

UEs that conform to Release 11 and support CA_23A-29A shall support the following requirements in Release 12.

50.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23A-29A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 50.1.1-1: Void

50.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23A-29A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 50.1.2-1: Void

50.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

51 CA configuration CA_4A-4A Independent of Release

CA configuration CA_4A-4A with 1UL/2DLs is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

CA configuration CA_4A-4A with 2UL/2DL is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

51.1 CA_4A-4A UE with single uplink

UEs that conform to Release 11 and support CA_4A-4A shall support the following requirements in Release 13.

51.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A specified in [9], which are listed in Table B.4.5-1 of [11].

Table 51.1.1-1: Void

51.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A specified in [10], which are listed in Table B.2.3-1 of [11].

Table 51.1.2-1: Void

51.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

51.2 CA_4A-4A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-4A with dual uplink shall support the following requirements in Release 13.

51.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A specified in [9], which are listed in Table B.4.7-1 of [11].

51.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A specified in [10], which are listed in Table B.2.6-1 of [11].

51.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

52 CA configuration CA_3C Independent of Release

CA configuration CA_3C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

52.1 CA_3C UE

UEs that conform to Release 11 and support CA_3C shall support the following requirements in Release 12.

52.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 52.1.1-1: Void

52.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3C specified in [3], which are listed in Table B.2.2-1 of [4].

Table 52.1.1-2: Void

52.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

53 CA configuration CA_1A-26A Independent of Release

CA configuration CA_1A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-26A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

53.1 CA_1A-26A UE with single uplink

UEs that conform to Release 11 and support CA_1A-26A shall support the following requirements in Release 12.

53.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-26A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 53.1.1-1: Void

53.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-26A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 53.1.2-1: Void

53.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

53.2 CA_1A-26A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-26A with dual uplink shall support the following requirements in Release 13.

53.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-26A specified in [10] which are listed in Table B.4.6-1 of [11]

53.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-26A specified in [9] which are listed in Table B.2.5-1 of [11].

53.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-26A among the CA demodulation performance and CSI reporting requirements specified in [10]

54 CA configuration CA_2A-4A Independent of Release

CA configuration CA_2A-4A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_2A-4A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

54.1 CA_2A-4A UE with single uplink

UEs that conform to Release 11 and support CA_2A-4A shall support the following requirements in Release 12.

54.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 54.1.1-1: Void

54.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 54.1.2-1: Void

54.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

54.2 CA_2A-4A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-4A with dual uplink shall support the following requirements in Release 12.

54.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 54.2.1-1: Void

54.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A specified in [3], which are listed in Table B.2.5-1 of [4].

54.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

55 CA configuration CA_2A-5A Independent of Release

CA configuration CA_2A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_2A-5A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

55.1 CA_2A-5A UE with single uplink

UEs that conform to Release 11 and support CA_2A-5A shall support the following requirements in Release 12.

55.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 55.1.1-1: Void

55.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 55.1.2-1: Void

55.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

55.2 CA_2A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-5A with dual uplink shall support the following requirements in Release 13.

55.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A specified in [10], which are listed in Table B.4.6-1 of [11].

55.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A specified in [9] which are listed in Table B.2.5-1 of [11].

56 CA configuration CA_23B Independent of Release

CA configuration CA_23B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

56.1 CA_23B UE

UEs that conform to Release 11 and support CA_23B shall support the following requirements in Release 12.

56.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23B specified in [2], which are listed in Table B.4.2-1 of [4].

Table 56.1.1-1: Void

56.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23B specified in [3], which are listed in Table B.2.2-1 of [4].

Table 56.1.2-1: Void

56.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

57 CA configuration CA_27B Independent of Release

CA configuration CA_27B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

57.1 CA_27B UE

UEs that conform to Release 11 and support CA_27B shall support the following requirements in Release 12.

57.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_27B specified in [2], which are listed in Table B.4.2-1 of [4].

Table 57.1.1-1: Void

57.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_27B specified in [3], which are listed in Table B.2.2-1 of [4].

Table 57.1.2-1: Void

57.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_27B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

58 CA configuration CA_2A-12A Independent of Release

CA configuration CA_2A-12A is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_2A-12A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

58.1 CA_2A-12A UE with single uplink

UEs that conform to Release 11 and support CA_2A-12A shall support the following requirements in Release 13.

58.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12A specified in [9], which are listed in Table B.4.3-1 of [11].

Table 58.1.1-1: Void

58.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A specified in [10], which are listed in Table B.2.4-1 of [11].

Table 58.1.2-1: Void

58.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

58.2 CA_2A-12A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-12A with dual uplink shall support the following requirements in Release 13.

58.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12A specified in [10], which are listed in Table B.4.6-1 of [11].

58.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A specified in [9] which are listed in Table B.2.5-1 of [11].

59 CA configuration CA_5A-7A Independent of Release

CA configuration CA_5A-7A with 1UL/2DLs is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_5A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

59.1 CA_5A-7A UE with single uplink

UEs that conform to Release 11 and support CA_5A-7A shall support the following requirements in Release 13.

59.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-7A specified in [9], which are listed in Table B.4.3-1 of [11].

Table 59.1.1-1: Void

59.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-7A specified in [10], which are listed in Table B.2.4-1 of [11].

Table 59.1.2-1: Void

59.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

59.2 CA_5A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_5A-7A with dual uplink shall support the following requirements in Release 13.

59.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-7A specified in [9], which are listed in Table B.4.6-1 of [11].

Table 59.2.1-1: Void

59.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-7A specified in [10], which are listed in Table B.2.5-1 of [11].

59.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-7A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

60 CA configuration CA_5A-25A Independent of Release

CA configuration CA_5A-25A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

60.1 CA_5A-25A UE

UEs that conform to Release 11 and support CA_5A-25A shall support the following requirements in Release 12.

60.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-25A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 60.1.1-1: Void

60.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-25A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 60.1.2-1: Void

60.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-25A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

61 CA configuration CA_7A-28A Independent of Release

CA configuration CA_7A-28A with 1UL/2DLs is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_7A-28A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

61.1 CA_7A-28A UE with single uplink

UEs that conform to Release 11 and support CA_7A-28A shall support the following requirements in Release 13.

61.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-28A specified in [9], which are listed in Table B.4.3-1 of [11].

Table 61.1.1-1: Void

61.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-28A specified in [10], which are listed in Table B.2.4-1 of [11].

61.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

61.2 CA_7A-28A UE with dual uplink

UEs that conform to Release 11 and support CA_7A-28A with dual uplink shall support the following requirements in Release 12.

61.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-28A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 61.2.1-1: Void

61.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-28A specified in [3], which are listed in Table B.2.5-1 of [4].

61.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-28A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

62 CA configuration CA_12A-25A Independent of Release

CA configuration CA_12A-25A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

62.1 CA_12A-25A UE

UEs that conform to Release 11 and support CA_12A-25A shall support the following requirements in Release 12.

62.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12A-25A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 62.1.1-1: Void

62.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_12A-25A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 62.1.2-1: Void

62.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12A-25A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

63 CA configuration CA_3A-3A Independent of Release

CA configuration CA_3A-3A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

63.1 CA_3A-3A UE

UEs that conform to Release 11 and support CA_3A-3A shall support the following requirements in Release 12.

63.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-3A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 63.1.1-1: Void

63.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-3A specified in [3], which are listed in Table B.2.3-1 of [4].

Table 63.1.2-1: Void

63.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-3A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

64 CA configuration CA_7A-7A Independent of Release

CA configuration CA_7A-7A is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

64.1 CA_7A-7A UE

UEs that conform to Release 11 and support CA_7A-7A shall support the following requirements in Release 13.

64.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-7A specified in [9], which are listed in Table B.4.5-1 of [11].

Table 64.1.1-1: Void

64.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-7A specified in [10], which are listed in Table B.2.3-1 of [11].

64.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

65 CA configuration CA_23A-23A Independent of Release

CA configuration CA_23A-23A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

65.1 CA_23A-23A UE

UEs that conform to Release 11 and support CA_23A-23A shall support the following requirements in Release 12.

65.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23A-23A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 65.1.1-1: Void

65.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23A-23A specified in [3], which are listed in Table B.2.3-1 of [4].

Table 65.1.2-1: Void

65.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23A-23A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

66 CA configuration CA_3A-27A Independent of Release

CA configuration CA_3A-27A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

66.1 CA_3A-27A UE

UEs that conform to Release 11 and support CA_3A-27A shall support the following requirements in Release 12.

66.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-27A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 66.1.1-1: Void

66.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-27A specified in [3], which are listed in Table B.2.4-1 of [4].

66.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-27A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

67 CA configuration CA_39C Independent of Release

CA configuration CA_39C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

67.1 CA_39C UE

UEs that conform to Release 11 and support CA_39C shall support the following requirements in Release 12.

67.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 67.1.1-1: Void

67.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_39C specified in [3], which are listed in Table B.2.2-1 of [4].

67.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

68 CA configuration CA_39A-41A Independent of Release

CA configuration CA_39A-41A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_39A-41A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards

68.1 CA_39A-41A UE with single uplink

UEs that conform to Release 11 and support CA_39A-41A shall support the following requirements in Release 12.

68.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 68.1.1-1: Void

68.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41A specified in [3], which are listed in Table B.2.4-1 of [4].

68.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

68.2 CA_39A-41A UE with dual uplink

UEs that conform to Release 11 and support CA_39A-41A with dual uplink shall support the following requirements in Release 12.

68.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 68.2.1-1: Void

68.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41A specified in [3], which are listed in Table B.2.5-1 of [4].

68.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

69 Void

70 CA configuration CA_1A-5A Independent of Release

CA configuration CA_1A-5A with 1UL/2DLs to support band combination set 1 is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-5A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

70.1 CA_1A-5A UE with single uplink

UEs that conform to Release 11 and support CA_1A-5A shall support the following requirements in Release 12.

70.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 70.1.1-1: Void

70.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 70.1.2-1: Void

70.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

70.2 CA_1A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-5A with dual uplink shall support the following requirements in Release 12.

70.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 70.2.1-1: Void

70.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A specified in [3], which are listed in Table B.2.5-1 of [4].

70.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

71 CA configuration CA_1A-11A Independent of Release

CA configuration CA_1A-11A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

71.1 CA_1A-11A UE

UEs that conform to Release 11 and support CA_1A-11A shall support the following requirements in Release 12.

71.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-11A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 71.1.1-1: Void

71.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-11A specified in [3], which are listed in Table B.2.4-1 of [4].

71.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-11A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

72 CA configuration CA_1A-20A Independent of Release

CA configuration CA_1A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

72.1 CA_1A-20A UE

UEs that conform to Release 11 and support CA_1A-20A shall support the following requirements in Release 12.

72.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 72.1.1-1: Void

72.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

Table 72.1.2-1: Void

72.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

73 CA configuration CA_4A-27A Independent of Release

CA configuration CA_4A-27A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

73.1 CA_4A-27A UE

UEs that conform to Release 11 and support CA_4A-27A shall support the following requirements in Release 12.

73.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-27A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 73.1.1-1: Void

73.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-27A specified in [3], which are listed in Table B.2.4-1 of [4].

73.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-27A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

74 CA configuration CA_20A-32A Independent of Release

CA configuration CA_20A-32A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

74.1 CA_20A-32A UE

UEs that conform to Release 11 and support CA_20A-32A shall support the following requirements in Release 12.

74.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-32A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 74.1.1-1: Void

74.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-32A specified in [3], which are listed in Table B.2.4-1 of [4].

74.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-32A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

75 CA configuration CA_41D Independent of Release

CA configuration CA_41D is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

75.1 CA_41D UE

UEs that conform to Release 11 and support CA_41D shall support the following requirements in Release 12.

75.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41D specified in [2], which are listed in Table B.4.2-1 of [4].

Table 75.1.1-1: Void

75.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41D specified in [3], which are listed in Table B.2.2-1 of [4].

75.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41D among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

76 CA configuration CA_42C Independent of Release

CA configuration CA_42C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

76.1 CA_42C UE

UEs that conform to Release 11 and support CA_42C shall support the following requirements in Release 12.

76.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42C specified in [2], which are listed in Table B.4.2-1 of [4].

76.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_42C specified in [3], which are listed in Table B.2.2-1 of [4].

76.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

77 CA configuration CA_42A-42A Independent of Release

CA configuration CA_42A-42A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

77.1 CA_42A-42A UE

UEs that conform to Release 11 and support CA_42A-42A shall support the following requirements in Release 12.

77.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42A-42A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 75.1.1-1: Void

77.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_42A-42A specified in [3], which are listed in Table B.2.3-1 of [4].

77.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42A-42A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

78 CA configuration CA_2A-2A Independent of Release

CA configuration CA_2A-2A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

78.1 CA_2A-2A UE

UEs that conform to Release 11 and support CA_2A-2A shall support the following requirements in Release 12.

78.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 78.1.1-1: Void

78.1.2 RRM Requirements

The UE shall comply with the following RRM requirements for CA_2A-2A specified in Annex B.2.3.

78.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

79 CA configuration CA_40C Independent of Release

CA_40C is specified in Release 10, Release 11 and Release 12. It is defined as a release-independent CA configuration for Rel-10 upwards.

79.1 CA_40C UE

UEs that conform to Release 11 and support CA_40C shall support the following requirements in Release 12 for both one uplink and simultaneous transmission on two uplinks.

79.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_40C specified in [2], which are listed in Table B.4.2-1 of [4].

Table 79.1.1-1: Void

79.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_40C specified in [3], which are listed in Table B.2.2-1 of [4].

79.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

80 CA configuration CA_8A-11A Independent of Release

CA configuration CA_8A-11A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

80.1 CA_8A-11A UE

UEs that conform to Release 11 and support CA_8A-11A shall support the following requirements in Release 12.

80.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8A-11A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 80.1.1-1: Void

80.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_8A-11A specified in [3], which are listed in Table B.2.4-1 of [4].

80.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8A-11A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

81 CA configuration CA_41A-42A Independent of Release

CA configuration CA_41A-42A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

81.1 CA_41A-42A UE

UEs that conform to Release 11 and support CA_41A-42A shall support the following requirements in Release 12.

81.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41A-42A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 81.1.1-1: Void

81.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41A-42A specified in [3], which are listed in Table B.2.4-1 of [4].

81.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41A-42A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

82 CA configuration CA_18A-28A Independent of Release

CA configuration CA_18A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_18A-28A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

82.1 CA_18A-28A UE with single uplink

UEs that conform to Release 11 and support CA_18A-28A shall support the following requirements in Release 12.

82.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_18A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 82.1.1-1: Void

82.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_18A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

82.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_18A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

82.2 CA_18A-28A UE with dual uplink

UEs that conform to Release 11 and support CA_18A-28A with dual uplink shall support the following requirements in Release 13.

82.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_18A-28A specified in [10] which are listed in Table B.4.6-1 of [11]

82.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_18A-28A specified in [9] which are listed in Table B.2.5-1 of [11].

82.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_18A-28A among the CA demodulation performance and CSI reporting requirements specified in [10]

83 CA configuration CA_1A-5A-7A Independent of Release

CA configuration CA_1A-5A-7A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_1A-5A-7A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

83.1 CA_1A-5A-7A UE with single uplink

UEs that conform to Release 11 and support CA_1A-5A-7A shall support the following requirements in Release 12.

83.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 83.1.1-1: Void

83.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A-7A specified in [3].

83.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

83.2 CA_1A-5A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-5A-7A with dual uplink configuration as CA_1A-5A, CA_1A-7A and CA_5A-7A shall support the following requirements in Release 13.

83.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A-7A specified in [9], which are listed in Table B.4.6-1 of [11].

83.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A-7A specified in [10], which are listed in Table B.2.5-1 of [11].

83.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A-7A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

84 CA configuration CA_1A-3A-5A Independent of Release

CA configuration CA_1A-3A-5A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_1A-3A-5A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

84.1 CA_1A-3A-5A UE with single uplink

UEs that conform to Release 11 and support CA_1A-3A-5A shall support the following requirements in Release 12.

84.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 84.1.1-1: Void

84.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-5A specified in [3].

84.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

84.2 CA_1A-3A-5A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-3A-5A with dual uplink configuration as CA_1A-3A, CA_1A-5A and CA_3A-5A shall support the following requirements in Release 13.

84.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-5A specified in [9], which are listed in Table B.4.6-1 of [11].

84.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-5A specified in [10], which are listed in Table B.2.5-1 of [11].

84.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-5A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

85 CA configuration CA_1A-3A-8A Independent of Release

CA configuration CA_1A-3A-8A with 1UL/3DLs is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_1A-3A-8A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

85.1 CA_1A-3A-8A UE with single uplink

UEs that conform to Release 11 and support CA_1A-3A-8A shall support the following requirements in Release 13.

85.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-8A specified in [9], which are listed in Table B.4.3-1 of [11].

Table 85.1.1-1: Void

85.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A specified in [10], which are listed in Table B.2.3-1 of [11].

85.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-8A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

85.2 CA_1A-3A-8A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-3A-8A with dual uplink configuration as CA_1A-3A, CA_1A-8A and CA_3A-8A shall support the following requirements in Release 13.

85.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-8A specified in [9], which are listed in Table B.4.6-1 of [11].

85.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A specified in [10], which are listed in Table B.2.5-1 of [11].

85.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-8A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

86 CA configuration CA_1A-3A-19A Independent of Release

CA configuration CA_1A-3A-19A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

CA configuration CA_1A-3A-19A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

86.1 CA_1A-3A-19A UE with single uplink

UEs that conform to Release 11 and support CA_1A-3A-19A shall support the following requirements in Release 12.

86.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-19A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 86.1.1-1: Void

86.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A specified in [3], which are listed in Table B.2.4-1 of [4].

86.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

86.2 CA_1A-3A-19A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-3A-19A with dual uplink configuration as CA_1A-3A, CA_1A-19A and CA_3A-19A shall support the following requirements in Release 13.

86.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-19A specified in [9], which are listed in Table B.4.6-1 of [11].

86.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A specified in [10], which are listed in Table B.2.5-1 of [11].

86.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-19A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

87 CA configuration CA_1A-3A-20A Independent of Release

CA configuration CA_1A-3A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

87.1 CA_1A-3A-20A UE

UEs that conform to Release 11 and support CA_1A-3A-20A shall support the following requirements in Release 12.

87.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 87.1.1-1: Void

87.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

87.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

88 CA configuration CA_1A-3A Independent of Release

CA configuration CA_1A-3A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-3A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

88.1 CA_1A-3A UE with single uplink

UEs that conform to Release 11 and support CA_1A-3A shall support the following requirements in Release 12.

88.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 88.1.1-1: Void

88.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A specified in [3], which are listed in Table B.2.4-1 of [4].

88.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

88.2 CA_1A-3A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-3A with dual uplink shall support the following requirements in Release 12.

88.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 88.2.1-1: Void

88.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A specified in [3], which are listed in Table B.2.5-1 of [4].

88.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

89 CA configuration CA_1A-7A-20A Independent of Release

CA configuration CA_1A-7A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

89.1 CA_1A-7A-20A UE

UEs that conform to Release 11 and support CA_1A-7A-20A shall support the following requirements in Release 12.

89.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 89.1.1-1: Void

89.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-20A specified in [3], which are listed in Table B.2.4-1 of [4].

89.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

90 CA configuration CA_1A-7A Independent of Release

CA configuration CA_1A-7A with 1UL/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-7A with 2ULs/2DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

90.1 CA_1A-7A UE with single uplink

UEs that conform to Release 11 and support CA_1A-7A shall support the following requirements in Release 12.

90.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 90.1.1-1: Void

90.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A specified in [3], which are listed in Table B.2.4-1 of [4].

90.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

90.2 CA_1A-7A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-7A with dual uplink shall support the following requirements in Release 12.

90.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A specified in [2], which are listed in Table B.4.6-1 of [4].

Table 90.2.1-1: Void

90.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A specified in [3], which are listed in Table B.2.5-1 of [4].

90.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

91 CA configuration CA_1A-19A-21A Independent of Release

CA configuration CA_1A-19A-21A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_1A-19A-21A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

91.1 CA_1A-19A-21A UE with single uplink

UEs that conform to Release 11 and support CA_1A-19A-21A shall support the following requirements in Release 12.

91.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-21A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 91.1.1-1: Void

91.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-21A specified in [3].

91.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-21A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

91.2 CA_1A-19A-21A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-19A-21A with dual uplink configuration as CA_1A-19A, CA_1A-21A and CA_19A-21A shall support the following requirements in Release 13.

91.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-21A specified in [9], which are listed in Table B.4.6-1 of [11].

91.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-21A specified in [10], which are listed in Table B.2.5-1 of [11].

91.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-21A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

92 CA configuration CA_2A-2A-13A Independent of Release

CA configuration CA_2A-2A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

92.1 CA_2A-2A-13A UE

UEs that conform to Release 11 and support CA_2A-2A-13A shall support the following requirements in Release 12.

92.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 92.1.1-1: Void

92.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-13A specified in [3].

92.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

93 CA configuration CA_2A-4A-5A Independent of Release

CA configuration CA_2A-4A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

93.1 CA_2A-4A-5A UE

UEs that conform to Release 11 and support CA_2A-4A-5A shall support the following requirements in Release 12.

93.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 93.1.1-1: Void

93.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A specified in [3].

93.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

94 CA configuration CA_2A-4A-13A Independent of Release

CA configuration CA_2A-4A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

94.1 CA_2A-4A-13A UE

UEs that conform to Release 11 and support CA_2A-4A-13A shall support the following requirements in Release 12.

94.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 94.1.1-1: Void

94.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-13A specified in [3].

94.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

95 CA configuration CA_2A-4A-12A Independent of Release

CA configuration CA_2A-4A-12A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_2A-4A-12A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

95.1 CA_2A-4A-12A UE with single uplink

UEs that conform to Release 11 and support CA_2A-4A-12A shall support the following requirements in Release 12.

95.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 95.1.1-1: Void

95.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-12A specified in [3].

95.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

95.2 CA_2A-4A-12A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-4A-12A with dual uplink configuration as CA_2A-4A and CA_4A-12A shall support the following requirements in Release 13.

95.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-12A specified in [9], which are listed in Table B.4.6-1 of [11].

95.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-12A specified in [10], which are listed in Table B.2.5-1 of [11].

95.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-12A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

96 CA configuration CA_2A-12B Independent of Release

CA configuration CA_2A-12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

96.1 CA_2A-12B UE

UEs that conform to Release 11 and support CA_2A-12B shall support the following requirements in Release 12.

96.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12B specified in [2], which are listed in Table B.4.3-1 of [4].

Table 96.1.1-1: Void

96.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12B specified in [3].

96.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

97 CA configuration CA_3A-7C Independent of Release

CA configuration CA_3A-7C with single uplink is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_3A-7C with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

97.1 CA_3A-7C UE with single uplink

UEs that conform to Release 11 and support CA_3A-7C shall support the following requirements in Release 13.

97.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7C specified in [9], which are listed in Table B.4.3-1 of [11].

Table 97.1.1-1: Void

97.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C specified in [10].

97.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

97.2 CA_3A-7C UE with dual uplink

UEs that conform to Release 11 and support CA_3A-7C with dual uplink configurations as CA_7C shall support the following requirements in Release 13.

97.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7C specified in [9], which are listed in Table B.4.6-1 of [11].

97.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C specified in [10], which are listed in Table B.2.5-1 of [11].

97.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7C with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

98 CA configuration CA_3A-7A-20A Independent of Release

CA configuration CA_3A-7A-20A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_3A-7A-20A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

98.1 CA_3A-7A-20A UE with single uplink

UEs that conform to Release 11 and support CA_3A-7A-20A shall support the following requirements in Release 12.

98.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 98.1.1-1: Void

98.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-20A specified in [3].

98.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

98.2 CA_3A-7A-20A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-7A-20A with dual uplink configuration as CA_3A-7A, CA_3A-20A and CA_7A-20A shall support the following requirements in Release 13.

98.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-20A specified in [9], which are listed in Table B.4.6-1 of [11].

98.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-20A specified in [10], which are listed in Table B.2.5-1 of [11].

98.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-20A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

99 CA configuration CA_4A-4A-13A Independent of Release

CA configuration CA_4A-4A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

99.1 CA_4A-4A-13A UE

UEs that conform to Release 11 and support CA_4A-4A-13A shall support the following requirements in Release 12.

99.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 99.1.1-1: Void

99.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-13A specified in [3].

99.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

100 CA configuration CA_4A-12B Independent of Release

CA configuration CA_4A-12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

100.1 CA_4A-12B UE

UEs that conform to Release 11 and support CA_4A-12B shall support the following requirements in Release 12.

100.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12B specified in [2], which are listed in Table B.4.3-1 of [4].

Table 100.1.1-1: Void

100.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12B specified in [3].

100.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

101 CA configuration CA_12B Independent of Release

CA configuration CA_12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

101.1 CA_12B UE

UEs that conform to Release 11 and support CA_12B shall support the following requirements in Release 12.

101.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12B specified in [2], which are listed in Table B.4.2-1 of [4].

Table 101.1.1-1: Void

101.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_12B specified in [3], which are listed in Table B.2.2-1 of [4].

101.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12B among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

102 CA configuration CA_2A-4A-4A Independent of Release

CA configuration CA_2A-4A-4A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

102.1 CA_2A-4A-4A UE

UEs that conform to Release 11 and support CA_2A-4A-4A shall support the following requirements in Release 12.

102.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-4A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 102.1.1-1: Void

102.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-4A specified in [3].

102.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-4A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

103 CA configuration CA_4A-4A-12A Independent of Release

CA configuration CA_4A-4A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

103.1 CA_4A-4A-12A UE

UEs that conform to Release 11 and support CA_4A-4A-12A shall support the following requirements in Release 12.

103.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 103.1.1-1: Void

103.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-12A specified in [3].

103.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

104 CA configuration CA_3C-7A Independent of Release

CA configuration CA_3C-7A with single uplink is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7]. CA configuration CA_3C-7A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

104.1 CA_3C-7A UE with single uplink

UEs that conform to Release 11 and support CA_3C-7A shall support the following requirements in Release 12.

104.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-7A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 104.1.1-1: Void

104.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-7A specified in [3].

104.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-7A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

104.2 CA_3C-7A UE with dual uplink

UEs that conform to Release 11 and support CA_3C-7A with dual uplink configuration as CA_3C shall support the following requirements in Release 13.

104.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-7A specified in [9], which are listed in Table B.4.6-1 of [11].

104.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-7A specified in [10], which are listed in Table B.2.5-1 of [11].

104.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-7A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

105 CA configuration CA_2A-5A-12A Independent of Release

CA configuration CA_2A-5A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

105.1 CA_2A-5A-12A UE

UEs that conform to Release 11 and support CA_4A-4A-12A shall support the following requirements in Release 12.

105.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 105.1.1-1: Void

105.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-12A specified in [3].

105.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

106 CA configuration CA_4A-5A-12A Independent of Release

CA configuration CA_4A-5A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

106.1 CA_4A-5A-12A UE

UEs that conform to Release 11 and support CA_2A-4A-12A shall support the following requirements in Release 12.

106.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 106.1.1-1: Void

106.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-12A specified in [3].

106.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

107 CA configuration CA_2A-5A-30A Independent of Release

CA configuration CA_2A-5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

107.1 CA_2A-5A-30A UE

UEs that conform to Release 11 and support CA_2A-5A-30A shall support the following requirements in Release 12.

107.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 107.1.1-1: Void

107.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-30A specified in [3].

107.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

108 CA configuration CA_2A-12A-30A Independent of Release

CA configuration CA_2A-12A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

108.1 CA_2A-12A-30A UE

UEs that conform to Release 11 and support CA_2A-12A-30A shall support the following requirements in Release 12.

108.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 108.1.1-1: Void

108.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A-30A specified in [3].

108.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

109 CA configuration CA_2A-29A-30A Independent of Release

CA configuration CA_2A-29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

109.1 CA_2A-29A-30A UE

UEs that conform to Release 11 and support CA_2A-29A-30A shall support the following requirements in Release 12.

109.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-29A-30A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 109.1.1-1: Void

109.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-29A-30A specified in [3].

109.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-29A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

110 CA configuration CA_4A-5A-30A Independent of Release

CA configuration CA_4A-5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

110.1 CA_4A-5A-30A UE

UEs that conform to Release 11 and support CA_4A-5A-30A shall support the following requirements in Release 12.

110.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 110.1.1-1: Void

110.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-30A specified in [3].

110.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

111 CA configuration CA_4A-12A-30A Independent of Release

CA configuration CA_4A-12A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

111.1 CA_4A-12A-30A UE

UEs that conform to Release 11 and support CA_4A-12A-30A shall support the following requirements in Release 12.

111.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 111.1.1-1: Void

111.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A-30A specified in [3].

111.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

112 CA configuration CA_4A-29A-30A Independent of Release

CA configuration CA_4A-29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

112.1 CA_4A-29A-30A UE

UEs that conform to Release 11 and support CA_4A-29A-30A shall support the following requirements in Release 12.

112.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-29A-30A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 112.1.1-1: Void

112.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-29A-30A specified in [3].

112.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-29A-30A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

113 CA configuration CA_2A-30A Independent of Release

CA configuration CA_2A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

113.1 CA_2A-30A UE

UEs that conform to Release 11 and support CA_2A-30A shall support the following requirements in Release 12.

113.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 113.1.1-1: Void

113.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

113.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

114 CA configuration CA_4A-30A Independent of Release

CA configuration CA_4A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

114.1 CA_4A-30A UE

UEs that conform to Release 11 and support CA_4A-30A shall support the following requirements in Release 12.

114.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 114.1.1-1: Void

114.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

114.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

115 CA configuration CA_5A-30A Independent of Release

CA configuration CA_5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

115.1 CA_5A-30A UE

UEs that conform to Release 11 and support CA_5A-30A shall support the following requirements in Release 12.

115.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 115.1.1-1: Void

115.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

115.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

116 CA configuration CA_12A-30A Independent of Release

CA configuration CA_12A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

116.1 CA_12A-30A UE

UEs that conform to Release 11 and support CA_2A-30A shall support the following requirements in Release 12.

116.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12A-30A specified in [2], which are listed in Table B.4.3-1 of [4].

Table 116.1.1-1: Void

116.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_12A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

116.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

117 CA configuration CA_29A-30A Independent of Release

CA configuration CA_29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

117.1 CA_29A-30A UE

UEs that conform to Release 11 and support CA_29A-30A shall support the following requirements in Release 12.

117.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_29A-30A specified in [2], which are listed in Table B.4.4-1 of [4].

Table 117.1.1-1: Void

117.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_29A-30A specified in [3], which are listed in Table B.2.4-1 of [4].

117.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_29A-30A among the CA demodulation performance and CSI reporting requirements specified in [2], which are listed in Table B.3.2-1 of [4].

118 CA configuration CA_40D Independent of Release

CA configuration CA_40D is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

118.1 CA_40D UE

UEs that conform to Release 11 and support CA_40D shall support the following requirements in Release 12.

118.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_40D specified in [2], which are listed in Table B.4.2-1 of [4].

Table 118.1.1-1: Void

118.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_40D specified in [3], which are listed in Table B.2.2-1 of [4].

118.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40D among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

119 Void

119.1 Void

119.1.1 Void

Table 119.1.1-1: Void

119.1.2 Void

119.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

120 CA configuration CA_25A-25A Independent of Release

CA configuration CA_25A-25A is specified in Release 11 and Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards.

120.1 CA_25A-25A UE

UEs that conform to Release 11 and support CA_25A-25A shall support the following requirements in Release 12.

120.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_25A-25A specified in [2], which are listed in Table B.4.5-1 of [4].

Table 120.1.1-1: Void

120.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-25A specified in [3], which are listed in Table B.2.3-1 of [4].

120.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_25A-25A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

121 CA configuration CA_41C-41A and CA_41A-41C Independent of Release

CA configurations CA_41C-41A and CA_41A-41C are specified in Release 12 but are defined as release-independent CA configurations for Rel-11 upwards for UE Categories specified in [7].

121.1 CA_41C-41A and CA_41A-41C UE

UEs that conform to Release 11 and support CA_41C-41A and CA_41A-41C shall support the following requirements in Release 12.

121.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41C-41A and CA_41A-41C specified in [2], which are listed in Table B.4.3-1 of [4].

Table 121.1.1-1:

121.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-41A and CA_41A-41C specified in [3], which are listed in Table B.2.2-1 of [4].

121.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

122 CA configuration CA_1A-28A Independent of Release

CA configuration CA_1A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

CA configuration CA_1A-28A with 2ULs/2DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

122.1 CA_1A-28A UE with single uplink

UEs that conform to Release 11 and support CA_1A-28A shall support the following requirements in Release 12.

122.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

122.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-28A specified in [3], which are listed in Table B.2.4-1 of [4].

122.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

122.2 CA_1A-28A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-28A shall support the following requirements in Release 13.

122.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-28A specified in [10] which are listed in Table B.4.6-1 of [11]

122.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-28A specified in [9] which are listed in Table B.2.5-1 of [11].

122.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-28A among the CA demodulation performance and CSI reporting requirements specified in [10].

123 CA configuration CA_5A-13A Independent of Release

CA configuration CA_5A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

123.1 CA_5A-13A UE

UEs that conform to Release 11 and support CA_5A-13A shall support the following requirements in Release 12.

123.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

123.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-13A specified in [3], which are listed in Table B.2.4-1 of [4].

123.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-13A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

124 CA configuration CA_1A-3A-26A Independent of Release

CA configuration CA_1A-3A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

124.1 CA_1A-3A-26A UE

UEs that conform to Release 11 and support CA_1A-3A-26A shall support the following requirements in Release 12.

124.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-26A specified in [2], which are listed in Table B.4.3-1 of [4].

124.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-26A specified in [3].

124.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-26A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

125 CA configuration CA_2C Independent of Release

CA configuration CA_2C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

125.1 CA_2C UE

UEs that conform to Release 11 and support CA_2C shall support the following requirements in Release 12.

125.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C specified in [2], which are listed in Table B.4.2-1 of [4].

125.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C specified in [3], which are listed in Table B.2.2-1 of [4].

125.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [4].

126 CA configuration CA_2C-29A Independent of Release

CA configuration CA_2C-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

126.1 CA_2C-29A UE

UEs that conform to Release 11 and support CA_2C-29A shall support the following requirements in Release 12.

126.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-29A specified in [2], which are listed in Table B.4.3-1 of [4].

126.1.2 RRM Requirements

The UE shall comply with the RRM requirements for 2C-29A specified in [3].

126.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for 2C-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

127 CA configuration CA_2A-4A-29A Independent of Release

CA configuration CA_2A-4A-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

127.1 CA_2A-4A-29A UE

UEs that conform to Release 11 and support CA_2A-4A-29A shall support the following requirements in Release 12.

127.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-29A specified in [2], which are listed in Table B.4.3-1 of [4].

127.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-29A specified in [3].

127.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-29A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

128 CA configuration CA_7A-8A Independent of Release

CA configuration CA_7A-8A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

128.1 CA_7A-8A UE

UEs that conform to Release 11 and support CA_7A-8A shall support the following requirements in Release 12.

128.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-8A specified in [2], which are listed in Table B.4.3-1 of [4].

128.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-8A specified in [3], which are listed in Table B.2.4-1 of [4].

128.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-8A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

129 CA configuration CA_7A-8A-20A Independent of Release

CA configuration CA_7A-8A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

129.1 CA_7A-8A-20A UE

UEs that conform to Release 11 and support CA_7A-8A-20A shall support the following requirements in Release 12.

129.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-8A-20A specified in [2], which are listed in Table B.4.3-1 of [4].

129.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-8A-20A specified in [3].

129.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-8A-20A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

130 CA configuration CA_39C-41A Independent of Release

CA configuration CA_39C-41A with single uplink is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_39C-41A with dual uplink is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

130.1 CA_39C-41A UE with single uplink

UEs that conform to Release 11 and support CA_39C-41A shall support the following requirements in Release 12.

130.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C-41A specified in [2], which are listed in Table B.4.3-1 of [4].

130.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41A specified in [3].

130.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C-41A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

130.2 CA_39C-41A UE with dual uplink

UEs that conform to Release 11 and support CA_39C-41A with dual uplink configuration as CA_39C and CA_39A-41A shall support the following requirements in Release 13.

130.2.1 RF Requirements

The UE that supports CA_39C-41A with dual uplink configuration shall comply with the RF requirements for CA_39C-41A specified in [9], which are listed in Table B.4.6-1 of [11].

130.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41A specified in [10] and listed in Table B.2.5-1 of [11].

130.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C-41A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

131 CA configuration CA_39A-41C Independent of Release

CA configuration CA_39A-41C with single uplink is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_39C-41A with dual uplink is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

131.1 CA_39A-41C UE with single uplink

UEs that conform to Release 11 and support 39A-41C shall support the following requirements in Release 12.

131.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41C specified in [2], which are listed in Table B.4.3-1 of [4].

131.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41C specified in [3].

131.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

131.2 CA_39A-41C UE with dual uplink

UEs that conform to Release 11 and support 39A-41C with dual uplink configuration as CA_41C and CA_39A-41A shall support the following requirements in Release 13.

131.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41C specified in [9], which are listed in Table B.4.6-1 of [11].

131.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41C specified in [10] and listed in Table B.2.5-1 of [11].

131.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

132 CA configuration CA_7A-12A Independent of Release

CA configuration CA_7A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

132.1 CA_7A-12A UE

UEs that conform to Release 11 and support CA_7A-12A shall support the following requirements in Release 12.

132.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-12A specified in [2], which are listed in Table B.4.3-1 of [4].

132.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-12A specified in [3], which are listed in Table B.2.4-1 of [4].

132.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-12A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

133 CA configuration CA_4A-7A-12A Independent of Release

CA configuration CA_4A-7A-12A is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

133.1 CA_4A-7A-12A UE

UEs that conform to Release 11 and support CA_4A-7A-12A shall support the following requirements in Release 13.

133.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-7A-12A specified in [9], which are listed in Table B.4.3-1 of [11].

133.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A-12A specified in [10].

133.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-7A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

134 CA configuration CA_2A-5A-13A Independent of Release

CA configuration CA_2A-5A-13A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_2A-5A-13A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

134.1 CA_2A-5A-13A UE with single uplink

UEs that conform to Release 11 and support CA_2A-5A-13A shall support the following requirements in Release 12.

134.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

134.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-13A specified in [3].

134.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

134.2 CA_2A-5A-13A UE with dual uplink

UEs that conform to Release 11 and support CA_2A-5A-13A with dual uplink configuration as CA_2A-13A shall support the following requirements in Release 13.

134.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-13A specified in [9], which are listed in Table B.4.6-1 of [11].

134.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-13A specified in [10], which are listed in Table B.2.5-1 of [11].

134.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-13A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

135 CA configuration CA_4A-5A-13A Independent of Release

CA configuration CA_4A-5A-13A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_4A-5A-13A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

135.1 CA_4A-5A-13A UE with single uplink

UEs that conform to Release 11 and support CA_4A-5A-13A shall support the following requirements in Release 12.

135.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-13A specified in [2], which are listed in Table B.4.3-1 of [4].

135.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-13A specified in [3].

135.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-13A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

135.2 CA_4A-5A-13A UE with dual uplink

UEs that conform to Release 11 and support CA_4A-5A-13A with dual uplink configuration as CA_4A-13A shall support the following requirements in Release 13.

135.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-13A specified in [9], which are listed in Table B.4.6-1 of [11].

135.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-13A specified in [10], which are listed in Table B.2.5-1 of [11].

135.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-13A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

136 CA configuration CA_1A-18A-28A Independent of Release

CA configuration CA_1A-18A-28A with 1UL/3DLs is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_1A-18A-28A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

136.1 CA_1A-18A-28A UE with single uplink

UEs that conform to Release 11 and support CA_1A-18A-28A shall support the following requirements in Release 12.

136.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A-28A specified in [2], which are listed in Table B.4.3-1 of [4].

136.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A-28A specified in [3].

136.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A-28A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

136.2 CA_1A-18A-28A UE with dual uplink

UEs that conform to Release 11 and support CA_1A-18A-28A with dual uplink configuration as CA_1A-18A, CA_1A-28A and CA_18A-28A shall support the following requirements in Release 13.

136.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A-28A specified in [9], which are listed in Table B.4.6-1 of [11].

136.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A-28A specified in [10], which are listed in Table B.2.5-1 of [11].

136.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A-28A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

137 CA configuration CA_2A-2A-5A Independent of Release

CA configuration CA_2A-2A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

137.1 CA_ 2A-2A-5A UE

UEs that conform to Release 11 and support CA_2A-2A-5A shall support the following requirements in Release 12.

137.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

137.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-5A specified in [3].

137.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

138 CA configuration CA_4A-4A-5A Independent of Release

CA configuration CA_4A-4A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

138.1 CA_ 4A-4A-5A UE

UEs that conform to Release 11 and support CA_4A-4A-5A shall support the following requirements in Release 12.

138.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-5A specified in [2], which are listed in Table B.4.3-1 of [4].

138.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-5A specified in [3].

138.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [4].

139 CA configuration CA_4A-4A-7A Independent of Release

CA configuration CA_4A-4A-7A is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

139.1 CA_4A-4A-7A UE

UEs that conform to Release 11 and support CA_4A-4A-7A shall support the following requirements in Release 13.

139.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-7A specified in [9], which are listed in Table B.4.3-1 of [11].

139.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-7A specified in [10].

139.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

140 CA configuration CA_1A-3A-28A Independent of Release

CA configuration CA_1A-3A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

140.1 CA_1A-3A-28A UE

UEs that conform to Release 11 and support CA_1A-3A-28A shall support the following requirements in Release 13.

140.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

140.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

140.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

141 CA configuration CA_1A-7A-28A Independent of Release

CA configuration CA_1A-7A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

141.1 CA_1A-7A-28A UE

UEs that conform to Release 11 and support CA_1A-7A-28A shall support the following requirements in Release 13.

141.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

141.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

141.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

142 CA configuration CA_2A_5A_29A Independent of Release

CA configuration CA_2A-5A-29A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

142.1 CA_2A-5A-29A UE

UEs that conform to Release 11 and support CA_2A-5A-29A shall support the following requirements in Release 13.

142.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-29A specified in [9] which are listed in Table B.4.4-1 of [11].

142.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-29A specified in [10] which are listed in Table B.2.4-1 of [11].

142.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-29A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

143 CA configuration CA_3C_5A Independent of Release

CA configuration CA_3C-5A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

143.1 CA_3C-5A UE

UEs that conform to Release 11 and support CA_3C-5A shall support the following requirements in Release 13.

143.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-5A specified in [9] which are listed in Table B.4.3-1 of [11].

143.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-5A specified in [10] which are listed in Table B.2.4-1 of [11].

143.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-5A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

144 CA configuration CA_3A_7B Independent of Release

CA configuration CA_3A-7B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

144.1 CA_3A-7B UE

UEs that conform to Release 11 and support CA_3A-7B shall support the following requirements in Release 13.

144.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7B specified in [9] which are listed in Table B.4.3-1 of [11].

144.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7B specified in [10] which are listed in Table B.2.4-1 of [11].

144.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

145 CA configuration CA_3A_7A_8A Independent of Release

CA configuration CA_3A-7A-8A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

145.1 CA_3A-7A-8A UE

UEs that conform to Release 11 and support CA_3A-7A-8A shall support the following requirements in Release 13.

145.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-8A specified in [9] which are listed in Table B.4.3-1 of [11].

145.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-8A specified in [10] which are listed in Table B.2.4-1 of [11].

145.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-8A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

146 CA configuration CA_3A_7A_28A Independent of Release

CA configuration CA_3A-7A-28A with 1UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

CA configuration CA_3A-7A-28A with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

146.1 CA_3A-7A-28A UE with single uplink

UEs that conform to Release 11 and support CA_3A-7A-28A shall support the following requirements in Release 13.

146.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

146.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

146.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

146.2 CA_3A-7A-28A UE with dual uplink

UEs that conform to Release 11 and support CA_3A-7A-28A with dual uplink configuration as CA_3A-7A and CA_7A-28A shall support the following requirements in Release 13.

146.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-28A specified in [9], which are listed in Table B.4.6-1 of [11].

146.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-28A specified in [10], which are listed in Table B.2.5-1 of [11].

146.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-28A with dual uplink among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

147 CA configuration CA_5A-29A Independent of Release

CA configuration CA_5A-29A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

147.1 CA_5A-29A UE

UEs that conform to Release 11 and support CA_5A-29A shall support the following requirements in Release 13.

147.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-29A specified in [9] which are listed in Table B.4.4-1 of [11].

147.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-29A specified in [10] which are listed in Table B.2.4-1 of [11].

147.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-29A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

148 CA configuration CA_7B Independent of Release

CA configuration CA_7B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

148.1 CA_7B UE

UEs that conform to Release 11 and support CA_7B shall support the following requirements in Release 13.

148.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7B specified in [9] which are listed in Table B.4.2-1 of [11].

148.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7B specified in [10] which are listed in Table B.2.4-1 of [11].

148.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

149 CA configuration CA_7B_28A Independent of Release

CA configuration CA_7B-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

149.1 CA_7B-28A UE

UEs that conform to Release 11 and support CA_7B-28A shall support the following requirements in Release 13.

149.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7B-28A specified in [9] which are listed in Table B.4.3-1 of [11].

149.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7B-28A specified in [10] which are listed in Table B.2.4-1 of [11].

149.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7B-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

150 CA configuration CA_7C_28A Independent of Release

CA configuration CA_7C-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

150.1 CA_7C-28A UE

UEs that conform to Release 11 and support CA_7C-28A shall support the following requirements in Release 13.

150.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7C-28A specified in [9] which are listed in Table B.4.3-1 of [11].

150.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7C-28A specified in [10] which are listed in Table B.2.4-1 of [11].

150.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7C-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

151 CA configuration CA_40A-40A Independent of Release

CA configuration CA_40A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

151.1 CA_40A-40A UE

UEs that conform to Release 11 and support CA_40A-40A shall support the following requirements in Release 13.

151.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_40A-40A specified in [9] which are listed in Table B.4.5-1 of [11].

151.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_40A-40A specified in [10] which are listed in Table B.2.3-1 of [11].

151.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40A-40A among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

152 CA configuration CA_38A-40A Independent of Release

CA configuration CA_38A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

152.1 CA_38A-40A UE

UEs that conform to Release 11 and support CA_38A-40A shall support the following requirements in Release 13.

152.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_38A-40A specified in [9] which are listed in Table B.4.3-1 of [11].

152.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40A specified in [10] which are listed in Table B.2.4-1 of [11].

152.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_38A-40A among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

153 CA configuration CA_38A-40C Independent of Release

CA configuration CA_38A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

153.1 CA_38A-40C UE

UEs that conform to Release 11 and support CA_38A-40C shall support the following requirements in Release 13.

153.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_38A-40C specified in [9] which are listed in Table B.4.3-1 of [11].

153.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40C specified in [10] which are listed in Table B.2.4-1 of [11].

153.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_38A-40C among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

154 CA configuration CA_38A-40A-40A Independent of Release

CA configuration CA_38A-40A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

154.1 CA_38A-40A-40A UE

UEs that conform to Release 11 and support CA_38A-40A-40A shall support the following requirements in Release 13.

154.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_38A-40A-40A specified in [9] which are listed in Table B.4.3-1 of [11].

154.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40A-40A specified in [10] which are listed in Table B.2.4-1 of [11].

154.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_38A-40A-40A among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

155 CA configuration CA_41A_42C Independent of Release

CA configuration CA_41A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

155.1 CA_41A-42C UE

UEs that conform to Release 11 and support CA_41A-42C shall support the following requirements in Release 13.

155.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41A-42C specified in [9] which are listed in Table B.4.3-1 of [11].

155.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41A-42C specified in [10] which are listed in Table B.2.4-1 of [11].

155.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41A-42C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

156 CA configuration CA_2A-28A Independent of Release

CA configuration CA_2A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

156.1 CA_2A-28A UE

UEs that conform to Release 11 and support CA_2A-28A shall support the following requirements in Release 13.

156.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

156.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

156.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

157 CA configuration CA_3A-31A Independent of Release

CA configuration CA_3A-31A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

157.1 CA_3A-31A UE

UEs that conform to Release 11 and support CA_3A-31A shall support the following requirements in Release 13.

157.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-31A specified in [9] which are listed in Table B.4.3-1 of [11].

157.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-31A specified in [10] which are listed in Table B.2.4-1 of [11].

157.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-31A among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

158 CA configuration CA_4A-28A Independent of Release

CA configuration CA_4A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

158.1 CA_4A-28A UE

UEs that conform to Release 11 and support CA_4A-28A shall support the following requirements in Release 13.

158.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

158.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

158.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

159 CA configuration CA_7A-22A Independent of Release

CA configuration CA_7A-22A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

159.1 CA_7A-22A UE

UEs that conform to Release 11 and support CA_7A-22A shall support the following requirements in Release 13.

159.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-22A specified in [9] which are listed in Table B.4.3-1 of [11].

159.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-22A specified in [10] which are listed in Table B.2.4-1 of [11].

159.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-22A among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

160 CA configuration CA_20A-31A Independent of Release

CA configuration CA_20A-31A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

160.1 CA_20A-31A UE

UEs that conform to Release 11 and support CA_20A-31A shall support the following requirements in Release 13.

160.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-31A specified in [9] which are listed in Table B.4.3-1 of [11].

160.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-31A specified in [10] which are listed in Table B.2.4-1 of [11].

160.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-31A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

161 CA configuration CA_25A-26A Independent of Release

CA configuration CA_25A-26A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

161.1 CA_25A-26A UE

UEs that conform to Release 11 and support CA_25A-26A shall support the following requirements in Release 13.

161.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_25A-26A specified in [9] which are listed in Table B.4.3-1 of [11] with the following exception. For uplink transmissions in Band 26, the UE shall comply with the additional spurious emissions requirements in sub-clause 6.6.3.3.5 (“NS_12”) and sub-clause 6.6.3.36 (“NS_13”) as specified in [6].

161.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-26A specified in [10] which are listed in Table B.2.4-1 of [11].

161.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_25A-26A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

162 CA configuration CA_42D Independent of Release

CA configuration CA_42D is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

162.1 CA_42D UE

UEs that conform to Release 11 and support CA_42D shall support the following requirements in Release 13.

162.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42D specified in [9] which are listed in Table B.4.2-1 of [11].

162.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_42D specified in [10] which are listed in Table B.2.2-1 of [11].

162.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the demodulation performance and CSI reporting requirements for CA_42D specified in [9], which are listed in section B.3.2-1 of [11].

163 CA configuration CA_2A-2A-4A Independent of Release

CA configuration CA_2A-2A-4A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

163.1 CA_2A-2A-4A UE

UEs that conform to Release 11 and support CA_2A-2A-4A shall support the following requirements in Release 13.

163.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-4A specified in [4] which are listed in Table B.4.3-1 of [11].

163.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A specified in [10].

163.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-4A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

164 CA configuration CA_2A-2A-4A-4A Independent of Release

CA configuration CA_2A-2A-4A-4A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

164.1 CA_2A-2A-4A-4A UE

UEs that conform to Release 11 and support CA_2A-2A-4A-4A shall support the following requirements in Release 13.

164.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-4A-4A specified in [4] which are listed in Table B.4.3-1 of [11].

164.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A-4A specified in [10].

164.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-4A-4A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

165 CA configuration CA_2C-5A Independent of Release

CA configuration CA_2C-5A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

165.1 CA_2C-5A UE

UEs that conform to Release 11 and support CA_2C-5A shall support the following requirements in Release 13.

165.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-5A specified in [4] which are listed in Table B.4.3-1 of [11].

165.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-5A specified in [10].

165.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-5A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

166 CA configuration CA_2C-5A-30A Independent of Release

CA configuration CA_2C-5A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

166.1 CA_2C-5A-30A UE

UEs that conform to Release 11 and support CA_2C-5A-30A shall support the following requirements in Release 13.

166.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-5A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

166.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-5A-30A specified in [10].

166.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-5A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

167 CA configuration CA_2C-12A Independent of Release

CA configuration CA_2C-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

167.1 CA_2C-12A UE

UEs that conform to Release 11 and support CA_2C-12A shall support the following requirements in Release 13.

167.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-12A specified in [4] which are listed in Table B.4.3-1 of [11].

167.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-12A specified in [10].

167.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-12A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

168 CA configuration CA_2C-30A Independent of Release

CA configuration CA_2C-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

168.1 CA_2C-30A UE

UEs that conform to Release 11 and support CA_2C-30A shall support the following requirements in Release 13.

168.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-30A specified in [4] which are listed in Table B.4.3-1 of [11].

168.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-30A specified in [10].

168.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

169 CA configuration CA_2C-12A-30A Independent of Release

CA configuration CA_2C-12A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

169.1 CA_2C-12A-30A UE

UEs that conform to Release 11 and support CA_2C-12A-30A shall support the following requirements in Release 13.

169.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-12A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

169.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-12A-30A specified in [10].

169.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-12A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

170 CA configuration CA_2C-29A-30A Independent of Release

CA configuration CA_2C-29A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

170.1 CA_2C-29A-30A UE

UEs that conform to Release 11 and support CA_2C-29A-30A shall support the following requirements in Release 13.

170.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-29A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

170.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-29A-30A specified in [10].

170.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-29A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

171 CA configuration CA_2A-2A-4A-12A Independent of Release

CA configuration CA_2A-2A-4A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

171.1 CA_2A-2A-4A-12A UE

UEs that conform to Release 11 and support CA_2A-2A-4A-12A shall support the following requirements in Release 13.

171.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-4A-12A specified in [4] which are listed in Table B.4.3-1 of [11].

171.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A-12A specified in [10].

171.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-4A-12A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

172 CA configuration CA_2A-4A-4A-12A Independent of Release

CA configuration CA_2A-4A-4A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

172.1 CA_2A-4A-4A-12A UE

UEs that conform to Release 11 and support CA_2A-4A-4A-12A shall support the following requirements in Release 13.

172.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-4A-12A specified in [4] which are listed in Table B.4.3-1 of [11].

172.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-4A-12A specified in [10].

172.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-4A-12A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

173 CA configuration CA_2A-4A-5A-30A Independent of Release

CA configuration CA_2A-4A-5A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

173.1 CA_2A-4A-5A-30A UE

UEs that conform to Release 11 and support CA_2A-4A-5A-30A shall support the following requirements in Release 13.

173.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-5A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

173.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A-30A specified in [10].

173.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-5A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

174 CA configuration CA_2A-4A-30A Independent of Release

CA configuration CA_2A-4A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

174.1 CA_2A-4A-30A UE

UEs that conform to Release 11 and support CA_2A-4A-30A shall support the following requirements in Release 13.

174.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

174.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-30A specified in [10].

174.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

175 CA configuration CA_2A-4A-12A-30A Independent of Release

CA configuration CA_2A-4A-12A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

175.1 CA_2A-4A-12A-30A UE

UEs that conform to Release 11 and support CA_2A-4A-12A-30A shall support the following requirements in Release 13.

175.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-12A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

175.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-12A-30A specified in [10].

175.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-12A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

176 CA configuration CA_2A-4A-29A-30A Independent of Release

CA configuration CA_2A-4A-29A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

176.1 CA_2A-4A-29A-30A UE

UEs that conform to Release 11 and support CA_25A-41D shall support the following requirements in Release 13.

176.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-29A-30A specified in [4] which are listed in Table B.4.3-1 of [11].

176.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-29A-30A specified in [10].

176.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-29A-30A among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [9].

177 CA configuration CA_42C-42A and CA_42A-42C Independent of Release

CA configurations CA_42C-42A and CA_42A-42C are specified in Release 13 but are defined as release-independent CA configurations for Rel-11 upwards.

177.1 CA_42C-42A and CA_42A-42C UE

UEs that conform to Release 11 and support CA_42C-42A and CA_42A-42C shall support the following requirements in Release 13.

177.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42C-42A and CA_42A-42C specified in [9], which are listed in Table B.4.3-1 of [11].

177.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_42C-42A and CA_42A-42C specified in [10], which are listed in Table B.2.2-1 of [11].

177.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42C-42A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

178 CA configuration CA_2A_2A_12A Independent of Release

CA configuration CA_2A-2A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

178.1 CA_2A-2A-12A UE

UEs that conform to Release 11 and support CA_2A-2A-12A shall support the following requirements in Release 13.

178.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-12A specified in [9] which are listed in Table B.4.3-1 of [11].

178.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-12A specified in [10] which are listed in Table B.2.4-1 of [11].

178.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

179 CA configuration CA_3A_3A_8A Independent of Release

CA configuration CA_3A-3A-8A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards for UE Categories specified in [7].

179.1 CA_3A-3A-8A UE

UEs that conform to Release 11 and support CA_3A-3A-8A shall support the following requirements in Release 13.

179.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-3A-8A specified in [9] which are listed in Table B.4.3-1 of [11].

179.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-3A-8A specified in [10] which are listed in Table B.2.4-1 of [11].

179.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-3A-8A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

180 – 194 Void

195 CA configuration CA_4A-5A-29A Independent of Release

CA configuration CA_4A-5A-29A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

195.1 CA_4A-5A-29A UE

UEs that conform to Release 11 and support CA_4A-5A-29A shall support the following requirements in Release 13.

195.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-29A specified in [9] which are listed in Table B.4.3-1 of [11].

195.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-29A specified in [10] which are listed in Table B.2.4-1 of [11].

195.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-29A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

196 CA configuration CA_2A-4A-5A-29A Independent of Release

CA configuration CA_2A-4A-5A-29A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

196.1 CA_2A-4A-5A-29A UE

UEs that conform to Release 11 and support CA_2A-4A-5A-29A shall support the following requirements in Release 13.

196.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-5A-29A specified in [9] which are listed in Table B.4.3-1 of [11].

196.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A-29A specified in [10] which are listed in Table B.2.4-1 of [11].

196.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-5A-29A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

197 – 204 Void

205 CA configuration CA_19A-28A Independent of Release

CA configuration CA_19A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

205.1 CA_19A-28A UE

UEs that conform to Release 11 and support CA_19A-28A shall support the following requirements in Release 13.

205.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

205.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

205.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

206 CA configuration CA_1A-19A-28A Independent of Release

CA configuration CA_1A-19A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

206.1 CA_1A-19A-28A UE

UEs that conform to Release 11 and support CA_1A-19A-28A shall support the following requirements in Release 13.

206.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

206.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

206.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

207 CA configuration CA_1A-8A-11A Independent of Release

CA configuration CA_1A-8A-11A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

207.1 CA_1A-8A-11A UE

UEs that conform to Release 11 and support CA_1A-8A-11A shall support the following requirements in Release 13.

207.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A-11A specified in [9] which are listed in Table B.4.3-1 of [11].

207.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-8A-11A specified in [10] which are listed in Table B.2.4-1 of [11].

207.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A-11A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

208 CA configuration CA_1A-3C Independent of Release

CA configuration CA_1A-3C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

208.1 CA_1A-3C UE

UEs that conform to Release 11 and support CA_1A-3C shall support the following requirements in Release 13.

208.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3C specified in [9] which are listed in Table B.4.3-1 of [11].

208.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3C specified in [10] which are listed in Table B.2.4-1 of [11].

208.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

209 – 213 Void

214 Band 45 Independent of Release

Band 45 is specified in Release 13 but is defined as a release-independent frequency band. This approach aligns the Band 45 with other frequency bands when considering features that have to be supported in different releases.

214.1 Band 45 UE

UEs that conform to Release 11 and support Band 45 shall support the following requirements in Release 13.

214.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 45 specified in [9], which are listed in Table B.4.1-1 of [11].

214.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 45 specified in [10], which are listed in Table B.2.1-1 of [11].

215 Band 65 Independent of Release

Band 65 is specified in Release 13 but is defined as a release-independent frequency band. This approach aligns the Band 65 with other frequency bands when considering features that have to be supported in different releases.

215.1 Band 65 UE

UEs that conform to Release 11 and support Band 65 shall support the following requirements in Release 13.

215.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 65 specified in [9], which are listed in Table B.4.1-1 of [11].

215.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 65 specified in [10], which are listed in Table B.2.1-1 of [11].

216 Band 66 Independent of Release

Band 66 is specified in Release 13 but is defined as a release-independent frequency band. This approach aligns the Band 66 with other frequency bands when considering features that have to be supported in different releases.

216.1 Band 66 UE

UEs that conform to Release 11 and support Band 66 shall support the following requirements in Release 13.

216.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 66 specified in [9], which are listed in Table B.4.1-1 of [11].

216.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 66 specified in [10], which are listed in Table B.2.1-1 of [11].

217 CA configuration CA_66B Independent of Release

CA_66B is specified in Release 13 but is defined as a release-independent E-UTRA CA configuration for Rel-10 upwards.

217.1 CA_66B UE

UEs that conform to Release 11 and support CA_66B shall support the following requirements in Release 13.

217.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_66B specified in [9], which are listed in Table B.4.2-1 of [11].

217.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_66B specified in [10], which are listed in Table B.2.2-1 of [11].

217.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_66B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

218 CA configuration CA_66C Independent of Release

CA_66C is specified in Release 13 but is defined as a release-independent E-UTRA CA configuration for Rel-10 upwards.

218.1 CA_66C UE

UEs that conform to Release 11 and support CA_66C shall support the following requirements in Release 13.

218.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_66C specified in [9], which are listed in Table B.4.2-1 of [11].

218.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_66C specified in [10], which are listed in Table B.2.2-1 of [11].

218.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_66C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

219 CA configuration CA_66A-66A Independent of Release

CA configuration CA_66A-66A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

219.1 CA_66A-66A UE

UEs that conform to Release 11 and support CA_66A-66A shall support the following requirements in Release 13.

219.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_66A-66A specified in [9] which are listed in Table B.4.5-1 of [11].

219.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_66A-66A specified in [10] which are listed in Table B.2.3-1 of [11].

219.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_66A-66A among the demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

220 CA configuration CA_5B Independent of Release

CA configuration CA_5B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

220.1 CA_5B UE

UEs that conform to Release 11 and support CA_5B shall support the following requirements in Release 13.

220.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5B specified in [9], which are listed in Table B.4.2-1 of [11].

220.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_5B specified in [10], which are listed in Table B.2.2-1 of [11].

220.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

221 CA configuration CA_8B Independent of Release

CA configuration CA_8B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

221.1 CA_8B UE

UEs that conform to Release 11 and support CA_8B shall support the following requirements in Release 13.

221.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8B specified in [9] which are listed in Table B.4.2-1 of [11].

221.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_8B specified in [10] which are listed in Table B.2.2-1 of [11].

221.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

222 CA configuration CA_20A-67A Independent of Release

CA configuration CA_20A-67A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

222.1 CA_20A-67A UE

UEs that conform to Release 11 and support CA_20A-67A shall support the following requirements in Release 13.

222.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-67A specified in [9] which are listed in Table B.4.3-1 of [11].

222.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-67A specified in [10] which are listed in Table B.2.4-1 of [11].

222.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-67A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [11].

223 CA configuration CA_1A-3A-7A Independent of Release

CA configuration CA_1A-3A-7A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

223.1 CA_1A-3A-7A UE

UEs that conform to Release 11 and support CA_1A-3A-7A shall support the following requirements in Release 13.

223.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-7A specified in [9] which are listed in Table B.4.3-1 of [11].

223.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-7A specified in [10] which are listed in Table B.2.4-1 of [11].

223.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

224 CA configuration CA_1A-11A-18A Independent of Release

CA configuration CA_1A-11A-18A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

224.1 CA_1A-11A-18A UE

UEs that conform to Release 11 and support CA_1A-11A-18A shall support the following requirements in Release 13.

224.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-11A-18A specified in [9] which are listed in Table B.4.3-1 of [11].

224.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-11A-18A specified in [10] which are listed in Table B.2.4-1 of [11].

224.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-11A-18A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

225 CA configuration CA_4A-7A Independent of Release

CA configuration CA_4A-7A is specified in Release 11 and Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

225.1 CA_4A-7A UE

UEs that conform to Release 11 and support CA_4A-7A shall support the following requirements in Release 13.

225.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-7A specified in [9] which are listed in Table B.4.4-1 of [11].

225.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A specified in [10] which are listed in Table B.2.4-1 of [11].

225.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

226 CA configuration CA_2A-2A-12B Independent of Release

CA configuration CA_2A-2A-12B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

226.1 CA_2A-2A-12B UE

UEs that conform to Release 11 and support CA_2A-2A-12B shall support the following requirements in Release 13.

226.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-12B specified in [9] which are listed in Table B.4.3-1 of [11].

226.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-12B specified in [10] which are listed in Table B.2.4-1 of [11].

226.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-12B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

227 CA configuration CA_5A-12B Independent of Release

CA configuration CA_5A-12B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

227.1 CA_5A-12B UE

UEs that conform to Release 11 and support CA_5A-12B shall support the following requirements in Release 13.

227.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-12B specified in [9] which are listed in Table B.4.3-1 of [11].

227.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-12B specified in [10] which are listed in Table B.2.4-1 of [11].

227.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-12B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

228 Void

229 CA configuration CA_39A-41D Independent of Release

CA configuration CA_39A-41D is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

229.1 CA_39A-41D UE

UEs that conform to Release 11 and support CA_39A-41D shall support the following requirements in Release 13.

229.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41D specified in [9] which are listed in Table B.4.3-1 of [11].

229.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41D specified in [10] which are listed in Table B.2.4-1 of [11].

229.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41D among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

230 CA configuration CA_39C-41C Independent of Release

CA configuration CA_39C-41C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

230.1 CA_39C-41C UE

UEs that conform to Release 11 and support CA_39C-41C shall support the following requirements in Release 13.

230.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C-41C specified in [9] which are listed in Table B.4.3-1 of [11].

230.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41C specified in [10] which are listed in Table B.2.4-1 of [11].

230.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C-41C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

231 CA configuration CA_41C-42A Independent of Release

CA configuration CA_41C-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

231.1 CA_41C-42A UE

UEs that conform to Release 11 and support CA_41C-42A shall support the following requirements in Release 13.

231.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41C-42A specified in [9] which are listed in Table B.4.3-1 of [11].

231.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-42A specified in [10] which are listed in Table B.2.4-1 of [11].

231.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C-42A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

232 CA configuration CA_41C-42C Independent of Release

CA configuration CA_41C-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

232.1 CA_41C-42C UE

UEs that conform to Release 11 and support CA_41C-42C shall support the following requirements in Release 13.

232.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41C-42C specified in [9] which are listed in Table B.4.3-1 of [11].

232.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-42C specified in [10] which are listed in Table B.2.4-1 of [11].

232.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C-42C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

233 CA configuration CA_2A-2A-4A-5A Independent of Release

CA configuration CA_2A-2A-4A-5A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

233.1 CA_2A-2A-4A-5A UE

UEs that conform to Release 11 and support CA_2A-2A-4A-5A shall support the following requirements in Release 13.

233.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-4A-5A specified in [9] which are listed in Table B.4.3-1 of [11].

233.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A-5A specified in [10] which are listed in Table B.2.4-1 of [11].

233.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

234 CA configuration CA_2A-2A-5A-12A Independent of Release

CA configuration CA_2A-2A-5A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

234.1 CA_2A-2A-5A-12A UE

UEs that conform to Release 11 and support CA_2A-2A-5A-12A shall support the following requirements in Release 13.

234.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-2A-5A-12A specified in [9] which are listed in Table B.4.3-1 of [11].

234.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-5A-12A specified in [10] which are listed in Table B.2.4-1 of [11].

234.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-2A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

235 CA configuration CA_2A-5A-12B Independent of Release

CA configuration CA_2A-5A-12B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

235.1 CA_2A-5A-12B UE

UEs that conform to Release 11 and support CA_2A-5A-12B shall support the following requirements in Release 13.

235.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-12B specified in [9] which are listed in Table B.4.3-1 of [11].

235.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-12B specified in [10] which are listed in Table B.2.4-1 of [11].

235.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-12B among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

236 CA configuration CA_4A-4A-5A-12A Independent of Release

CA configuration CA_4A-4A-5A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

236.1 CA_4A-4A-5A-12A UE

UEs that conform to Release 11 and support CA_4A-4A-5A-12A shall support the following requirements in Release 13.

236.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-5A-12A specified in [9] which are listed in Table B.4.3-1 of [11].

236.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-5A-12A specified in [10] which are listed in Table B.2.4-1 of [11].

236.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

237 CA configuration CA_2A-4A-4A-5A Independent of Release

CA configuration CA_2A-4A-4A-5A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

237.1 CA_2A-4A-4A-5A UE

UEs that conform to Release 11 and support CA_2A-4A-4A-5A shall support the following requirements in Release 13.

237.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-4A-5A specified in [9] which are listed in Table B.4.3-1 of [11].

237.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-4A-5A specified in [10] which are listed in Table B.2.4-1 of [11].

237.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

238 CA configuration CA_1A-7A-8A Independent of Release

CA configuration CA_1A-7A-8A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

238.1 CA_1A-7A-8A UE

UEs that conform to Release 11 and support CA_1A-7A-8A shall support the following requirements in Release 13.

238.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7A-8A specified in [9] which are listed in Table B.4.3-1 of [11].

238.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-8A specified in [10] which are listed in Table B.2.4-1 of [11].

238.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A-8A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

239 CA configuration CA_3A-7C-28A Independent of Release

CA configuration CA_3A-7C-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

239.1 CA_3A-7C-28A UE

UEs that conform to Release 11 and support CA_3A-7C-28A shall support the following requirements in Release 13.

239.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7C-28A specified in [9] which are listed in Table B.4.3-1 of [11].

239.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C-28A specified in [10] which are listed in Table B.2.4-1 of [11].

239.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7C-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

240 Void

241 Void

242 CA configuration CA_2A-4A-5A-12A Independent of Release

CA configuration CA_2A-4A-5A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

242.1 CA_2A-4A-5A-12A UE

UEs that conform to Release 11 and support CA_2A-4A-5A-12A shall support the following requirements in Release 13.

242.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-5A-12A specified in [9] which are listed in Table B.4.3-1 of [11].

242.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A-12A specified in [10] which are listed in Table B.2.4-1 of [11].

242.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

243 CA configuration CA_1A-3A-7A-8A Independent of Release

CA configuration CA_1A-3A-7A-8A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

243.1 CA_1A-3A-7A-8A UE

UEs that conform to Release 11 and support CA_1A-3A-7A-8A shall support the following requirements in Release 13.

243.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-7A-8A specified in [9] which are listed in Table B.4.3-1 of [11].

243.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-7A-8A specified in [10] which are listed in Table B.2.4-1 of [11].

243.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-7A-8A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

244 to 261 Void

262 CA configuration CA_5A-5A Independent of Release

CA configurations CA_5A-5A are specified in Release 13 but are defined as release-independent CA configurations for Rel-11 upwards.

262.1 CA_5A-5A UE

UEs that conform to Release 11 and support CA_5A-5A shall support the following requirements in Release 13.

262.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-5A specified in [9], which are listed in Table B.4.7-1 of [11].

262.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-5A specified in [10], which are listed in Table B.2.6-1 of [11].

262.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-5A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

263 CA configuration CA_41C-41C, CA_41A-41D and CA_41D-41A Independent of Release

CA configurations CA_41C-41C, CA_41A-41D and CA_41D-41A are specified in Release 13 but are defined as release-independent CA configurations for Rel-11 upwards.

263.1 CA_41C-41C, CA_41A-41D and CA_41D-41A UE

UEs that conform to Release 11 and support CA_41C-41C, CA_41A-41D and CA_41D-41A shall support the following requirements in Release 13.

263.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41C-41C, CA_41A-41D and CA_41D-41A specified in [9], which are listed in Table B.4.7-1 of [11].

263.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-41C, CA_41A-41D and CA_41D-41A specified in [10], which are listed in Table B.2.6-1 of [11].

263.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C-41C, CA_41A-41D and CA_41D-41A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

264 CA configuration CA_42E Independent of Release

CA configuration CA_42E is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

264.1 CA_42E UE

UEs that conform to Release 11 and support CA_42E shall support the following requirements in Release 13.

264.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42E specified in [9] which are listed in Table B.4.2-1 of [11].

264.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_42E specified in [10] which are listed in Table B.2.2-1 of [11].

264.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the demodulation performance and CSI reporting requirements for CA_42E specified in [9], which are listed in section B.3.2-1 of [11].

265 CA configuration CA_42A-42D, CA_42D-42A and CA_42C-42C Independent of Release

CA configurations CA_42A-42D, CA_42D-42A and CA_42C-42C are specified in Release 13 but are defined as release-independent CA configurations for Rel-11 upwards.

265.1 CA_42A-42D, CA_42D-42A and CA_42C-42C UE

UEs that conform to Release 11 and support CA_42A-42D, CA_42D-42A and CA_42C-42C shall support the following requirements in Release 13.

265.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42A-42D, CA_42D-42A and CA_42C-42C specified in [9], which are listed in Table B.4.3-1 of [11].

265.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_42A-42D, CA_42D-42A and CA_42C-42C specified in [10], which are listed in Table B.2.2-1 of [11].

265.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42D-42A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

265 – 271 Void

272 Band 68 Independent of Release

Band 68 is specified in Release 13 but is defined as a release-independent frequency band. This approach aligns the Band 68 with other frequency bands when considering features that have to be supported in different releases.

272.1 Band 68 UE

UEs that conform to Release 11 and support Band 68 shall support the following requirements in Release 13.

272.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 68 specified in [9], which are listed in Table B.4.1-1 of [11].

272.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 68 specified in [10], which are listed in Table B.2.1-1 of [11].

273 – 274 Void

275 CA configuration CA_2A-4A-7A Independent of Release

CA configuration CA_2A-4A-7A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

275.1 CA_2A-4A-7A UE

UEs that conform to Release 11 and support CA_2A-4A-7A shall support the following requirements in Release 13.

275.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-7A specified in [9] which are listed in Table B.4.3-1 of [11].

275.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-7A specified in [10] which are listed in Table B.2.4-1 of [11].

275.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

276 CA configuration CA_2A-7A-12A Independent of Release

CA configuration CA_2A-7A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

276.1 CA_2A-7A-12A UE

UEs that conform to Release 11 and support CA_2A-7A-12A shall support the following requirements in Release 13.

276.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-7A-12A specified in [9] which are listed in Table B.4.3-1 of [11].

276.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-7A-12A specified in [10] which are listed in Table B.2.4-1 of [11].

276.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-7A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

277 CA configuration CA_2A-7A Independent of Release

CA configuration CA_2A-7A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

277.1 CA_2A-7A UE

UEs that conform to Release 11 and support CA_2A-7A shall support the following requirements in Release 13.

277.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-7A specified in [9] which are listed in Table B.4.4-1 of [11].

277.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-7A specified in [10] which are listed in Table B.2.4-1 of [11].

277.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-7A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

278 CA configuration CA_4A-4A-29A Independent of Release

CA configuration CA_4A-4A-29A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

278.1 CA_4A-4A-29A UE

UEs that conform to Release 11 and support CA_4A-4A-29A shall support the following requirements in Release 13.

278.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-29A specified in [9] which are listed in Table B.4.3-1 of [11].

278.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-29A specified in [10] which are listed in Table B.2.4-1 of [11].

278.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-29A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

279 CA configuration CA_4A-4A-30A Independent of Release

CA configuration CA_4A-4A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

279.1 CA_4A-4A-30A UE

UEs that conform to Release 11 and support CA_4A-4A-30A shall support the following requirements in Release 13.

279.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-30A specified in [9] which are listed in Table B.4.3-1 of [11].

279.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-30A specified in [10] which are listed in Table B.2.4-1 of [11].

279.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-30A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

280 CA configuration CA_4A-4A-5A-30A Independent of Release

CA configuration CA_4A-4A-5A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

280.1 CA_4A-4A-5A-30A UE

UEs that conform to Release 11 and support CA_4A-4A-5A-30A shall support the following requirements in Release 13.

280.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-5A-30A specified in [9] which are listed in Table B.4.3-1 of [11].

280.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-5A-30A specified in [10] which are listed in Table B.2.4-1 of [11].

280.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

281 CA configuration CA_4A-4A-12A-30A Independent of Release

CA configuration CA_4A-4A-12A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

281.1 CA_4A-4A-12A-30A UE

UEs that conform to Release 11 and support CA_4A-4A-12A-30A shall support the following requirements in Release 13.

281.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-12A-30A specified in [9] which are listed in Table B.4.3-1 of [11].

281.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-12A-30A specified in [10] which are listed in Table B.2.4-1 of [11].

281.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

282 CA configuration CA_4A-4A-29A-30A Independent of Release

CA configuration CA_4A-4A-29A-30A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

282.1 CA_4A-4A-29A-30A UE

UEs that conform to Release 11 and support CA_4A-4A-29A-30A shall support the following requirements in Release 13.

282.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-4A-29A-30A specified in [9] which are listed in Table B.4.3-1 of [11].

282.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-29A-30A specified in [10] which are listed in Table B.2.4-1 of [11].

282.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-4A-29A-30A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

283 CA configuration CA_2A-4A-7A-12A Independent of Release

CA configuration CA_2A-4A-7A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

283.1 CA_2A-4A-7A-12A UE

UEs that conform to Release 11 and support CA_2A-4A-7A-12A shall support the following requirements in Release 13.

283.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-7A-12A specified in [9] which are listed in Table B.4.3-1 of [11].

283.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-7A-12A specified in [10] which are listed in Table B.2.4-1 of [11].

283.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-7A-12A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

284 Void

285 CA configuration CA_3C-7C Independent of Release

CA configuration CA_3C-7C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

285.1 CA_3C-7C UE

UEs that conform to Release 11 and support CA_3C-7C shall support the following requirements in Release 13.

285.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-7C specified in [9] which are listed in Table B.4.3-1 of [11].

285.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-7C specified in [10] which are listed in Table B.2.4-1 of [11].

285.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-7C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

286 CA configuration CA_3C-28A Independent of Release

CA configuration CA_3C-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

286.1 CA_3C-28A UE

UEs that conform to Release 11 and support CA_3C-28A shall support the following requirements in Release 13.

286.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-28A specified in [9] which are listed in Table B.4.3-1 of [11].

286.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-28A specified in [10] which are listed in Table B.2.4-1 of [11].

286.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

287 CA configuration CA_3C-7A-28A Independent of Release

CA configuration CA_3C-7A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

287.1 CA_3C-7A-28A UE

UEs that conform to Release 11 and support CA_3C-7A-28A shall support the following requirements in Release 13.

287.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-7A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

287.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-7A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

287.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-7A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

288 Void

289 CA configuration CA_1A-3A-7A-28A Independent of Release

CA configuration CA_1A-3A-7A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

289.1 CA_1A-3A-7A-28A UE

UEs that conform to Release 11 and support CA_1A-3A-7A-28A shall support the following requirements in Release 13.

289.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-7A-28A specified in [9] which are listed in Table B.4.3-1 of [11].

289.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-7A-28A specified in [10] which are listed in Table B.2.4-1 of [11].

289.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-7A-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

290 CA configuration CA_1A-3A-7C Independent of Release

CA configuration CA_1A-3A-7C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

290.1 CA_1A-3A-7C UE

UEs that conform to Release 11 and support CA_1A-3A-7C shall support the following requirements in Release 13.

290.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-7C specified in [9] which are listed in Table B.4.3-1 of [11].

290.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-7C specified in [10] which are listed in Table B.2.4-1 of [11].

290.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable CA_1A-3A-7C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

291 CA configuration CA_1A-7C-28A Independent of Release

CA configuration CA_1A-7C-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

291.1 CA_1A-7C-28A UE

UEs that conform to Release 11 and support CA_1A-7C-28A shall support the following requirements in Release 13.

291.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7C-28A specified in [9] which are listed in Table B.4.3-1 of [11].

291.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7C-28A specified in [10] which are listed in Table B.2.4-1 of [11].

291.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7C-28A among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

292 CA configuration CA_1A-7C Independent of Release

CA configuration CA_1A-7C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [7].

292.1 CA_1A-7C UE

UEs that conform to Release 11 and support CA_1A-7C shall support the following requirements in Release 13.

292.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7C specified in [9] which are listed in Table B.4.3-1 of [11].

292.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7C specified in [10] which are listed in Table B.2.4-1 of [11].

292.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7C among the CA demodulation performance and CSI reporting requirements specified in [9] and listed in Table B.3.2-1 of [11].

Annex A (informative) : Frequency arrangement for overlapping operating bands

The following information is provided in order to assist a UE derive the DL EARFCN and UL EARFCN in a multi-band environment, in which multiple overlapping operating bands may be indicated in the fields *freqBandIndicator* and *multiBandInfoList* of SIB1.

The overlapping bands, independent of release, which may be indicated in a cell are shown in Table A-1 for applicable E-UTRA bands. The DL EARFCN and UL EARFCN are derived according to [2].

Table A-1: Overlapping bands (multi-band environments) for each E-UTRA band

E-UTRA Operating Band	Overlapping E-UTRA operating bands	Duplex Mode
2	25	FDD
3	9	FDD
4	10	FDD
5	18, 19, 26	FDD
9	3	FDD
10	4	FDD
12	17	FDD
17	12	FDD
18	5, 26, 27	FDD
19	5, 26	FDD
25	2	FDD
26	5, 18, 19, 27	FDD
27	18, 26	FDD
33	39	TDD
38	41	TDD
39	33	TDD
41	38	TDD

Annex B (normative): Common Requirements

B.1 Purpose of annex

The purpose of Annex B is to group the requirements that are common for several bands or CA configurations in this specification and use the common tables as references.

B.2 Common RRM requirements

B.2.1 Common RRM requirements for a band independent of release

The requirements and test cases listed in Table B.2.1-1 are specified in [5].

Table B.2.1-1: Common RRM requirements for a band independent of release

Section / Clause	Description
4 ^{Note 1}	E-UTRAN RRC_IDLE state mobility
5	E-UTRAN RRC_CONNECTED state mobility
6 ^{Note 2}	RRC Connection Mobility Control
7 ^{Note 3}	Timing and signalling characteristics
8 ^{Note 4}	UE Measurements Procedures in RRC_CONNECTED State
9 ^{Note 5}	Measurements performance requirements for UE
A.4 ^{Note 1}	E-UTRAN RRC_IDLE state
A.5	E-UTRAN RRC CONNECTED Mode Mobility
A.6 ^{Note 2}	RRC Connection Control
A.7 ^{Note 3}	Timing and Signalling Characteristics
A.8 ^{Note 4}	UE Measurements Procedures
A.9 ^{Note 5}	Measurement Performance Requirements
<p>NOTE 1: All requirements and the corresponding test cases shall apply, except:</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests). <p>NOTE 2: All requirements and the corresponding test cases shall apply, except:</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-8: clauses 6.3 (RRC Connection Release with Redirection), 6.4 (CSG Proximity Indication for E-UTRAN and UTRAN). <p>NOTE 3: All requirements and corresponding test cases shall apply, except those defined in sections 7.4 and 7.5.</p> <p>NOTE 4: All requirements and corresponding test cases shall apply, except:</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-8: clauses 8.1.2.5 (E-UTRAN OTDOA Intra-Frequency RSTD Measurements), 8.1.2.6 (E-UTRAN Inter-Frequency OTDOA Measurements), 8.1.2.7 (E-UTRAN E-CID Measurements). <p>NOTE 5: All requirements and corresponding test cases shall apply, except:</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-8: clauses 9.1.9 (UE Rx-Tx time difference), 9.1.10 (Reference Signal Time Difference). <p>NOTE 6: All requirements and test cases in this table shall apply, except those defined for: carrier aggregation; measurements under time-domain measurement resource restriction with or without CRS assistance information, in addition to the exceptions listed above.</p>	

B.2.2 Common RRM requirements for an intra-band contiguous CA configuration

The requirements and test cases listed in Table B.2.2-1 are specified in [5].

Table B.2.2-1: Common RRM requirements for a single-band CA configuration independent of release

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE: Only requirements and test cases defined for intra-band contiguous carrier aggregation shall apply.	

B.2.3 Common RRM requirements for an intra-band non-contiguous CA configuration

The requirements and test cases listed in Table B.2.3-1 are specified in [5].

Table B.2.3-1: Common RRM requirements for a single-band CA configuration independent of release

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation shall apply.	

Editor's note: references to this section are to be revisited when intra-band non-contiguous CA requirements are finalized in TS 36.101.

B.2.4 Common RRM requirements for an inter-band CA configuration

The requirements and test cases listed in Table B.2.4-1 are specified in [5].

Table B.2.4-1: Common RRM requirements for a band-combination CA configuration

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.7	Timing and Signalling Characteristics
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE: Only requirements and test cases defined for inter-band carrier aggregation shall apply.	

B.3 Common UE performance requirements

B.3.1 Void

Table B.3.1-1: Void

B.3.2 Common UE performance requirements and tests for different CA configurations and combination sets

The requirements and test cases listed in Table B.3.2-1 are specified in [6].

Table B.3.2-1: Common UE performance requirements and tests for different CA configurations and combination sets

Section / Clause	Description
8.2.1.1.1	Single-antenna port performance (FDD)
8.2.2.1.1	Single-antenna port performance (TDD)
8.2.1.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (FDD)
8.2.2.3.1	Open-loop spatial multiplexing performance - Minimum Requirement 2 Tx Antenna Port (TDD)
8.2.1.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (FDD)
8.2.2.3.1A	Open-loop spatial multiplexing performance - Soft buffer management test (TDD)
8.2.1.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (FDD)
8.2.2.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD)
8.2.1.7	Carrier aggregation with power imbalance (FDD)
8.2.2.7	Carrier aggregation with power imbalance (TDD)
8.2.1.8	Intra-band non-contiguous carrier aggregation with timing offset (FDD)
8.7.1	Sustained downlink data rate provided by lower layers (FDD)
8.7.2	Sustained downlink data rate provided by lower layers (TDD)
9.6.1.1	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (FDD)
9.6.1.2	Additional requirements for carrier aggregation - Periodic reporting on multiple cells (Cell Specific Reference symbols) (TDD)
Note 1:	The applicability of requirements for different CA configurations and bandwidth combination sets is specified in Section 8.1.2.3 and 9.1.1.2 in [6].
Note 2:	The test coverage for different number of component carriers is defined in 8.1.2.4 in [2].

B.3.3 Void

Table B.3.3-1: Void

B.3.4 Void

B.4 Common UE RF requirements

B.4.1 Common UE RF requirements for a band independent of release

The requirements and test cases listed in Table B.4.1-1 are specified in [6].

Table B.4.1-1: Common UE RF requirements for a band independent of releaseSection / Clause	Description
5.5	Operating bands
5.6	Channel bandwidth
5.7	Channel arrangement
6.2	Transmit power
6.3	Output power dynamics
6.5 (NOTE)	Transmit signal quality
6.6	Output RF spectrum emissions
6.7	Transmit intermodulation
7.3	Reference sensitivity power level
7.4	Maximum input level
7.5	Adjacent Channel Selectivity (ACS)
7.6	Blocking characteristics
7.7	Spurious response
7.8	Intermodulation characteristics
7.9	RX spurious emissions
NOTE: Requirements in section 6.5.2.2.1 and 6.5.2.3.1 as specified in [8] apply	

B.4.2 Common UE RF requirements for an intra-band contiguous CA configuration

The requirements and test cases listed in Table B.4.2-1 are specified in [6].

Table B.4.2-1: Common UE RF requirements for an intra-band contiguous CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A	Channel bandwidths per operating band for CA
5.7.1A	Channel spacing for CA
5.7.2A	Channel raster for CA
5.7.4A	TX–RX frequency separation for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.4A	UE maximum output power with additional requirements for CA
6.2.5A	Configured transmitted power for CA
6.3.2A	UE Minimum utput power for CA
6.3.3A	UE Trasnsmit OFF power for CA
6.3.4A	ON/OFF time mask for CA
6.3.5A	Power control for CA
6.5.1A	Frequency error for CA
6.5.2A	Transmit modulation quality for CA
6.6.1A	Occupied bandwidth for CA
6.6.2.1A	Spectrum emission mask for CA
6.6.2.2A	Additional Spectrum Emission mask for CA
6.6.2.3.2A	UTRA ACLR for CA
6.6.2.3.3A	E-UTRA ACLR for CA
6.6.3.1A	Minimum requirements for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
6.6.3.3A	Additional spurious emissions for CA
6.7.1A	Minimum requirement for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA
7.10.1A	Receiver response for CA

B.4.3 Common UE RF requirements for an inter-band CA configuration

The requirements and test cases listed in Table B.4.3-1 are specified in [6].

Table B.4.3-1: Common UE RF requirements for an inter-band CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
5.7.2A	Channel raster for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5	Configured transmitted power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

B.4.4 Common UE RF requirements for an inter-band CA configuration including an operating band without uplink band

The requirements and test cases listed in Table B.4.4-1 are specified in [6].

Table B.4.4-1: Common UE RF requirements for an inter-band CA configuration including an operating band without uplink band independent of release

Section / Clause	Description
5.5	Operating bands
5.5A	Operating bands for CA
5.6A.1	Channel bandwidths per operating band for CA
5.7	Channel arrangement
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.5	Configured transmitted power
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

B.4.5 Common UE RF requirements for an intra-band non-contiguous CA configuration

The requirements and test cases listed in Table B.4.5-1 are specified in [6].

Table B.4.5-1: Common UE RF requirements for an intra-band non-contiguous CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A1	Channel bandwidths per operating band for CA
5.7.2A	Channel raster for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA

Annex C (informative): Change history

Table C.1: Change History

Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
11-2009	RP#46	RP-091141				TS36.307 V0.1.0 approved by RAN (Originally in R4-095022)	0.1.0
02-2010	R4#54	R4-100419				For release 9 version, replace sections 4 to 6 as 'Void' and add a new void section as section 7.	0.2.0
03-2010	RP#47	RP-100162				TS36.307 v1.0.0 for approval	1.0.0
03-2010	RP#47	RP-100162				Approved by RAN	9.0.0
09-2010	RP-49	RP-100927	2			CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.1.0
						Correction of section numbering	9.1.1
12-2010	RP-50	RP-101356	008			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0
12-2010	RP-50	RP-101361	005			Introduction of L-band in TS 36.307	9.2.0
12-2010	RP-50	RP-101344	016			CR creating the rel-10 of the 36.307 specification	9.3.0
12-2010	RP-50	RP-101356	012			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.3.0
12-2010	RP-50					Raised to Rel-10 with no technical change	10.0.0
01-2011						Correction to history table	10.0.1
06-2011	RP-52	RP-110804	015			Add Expanded 1900 MHz Band (Band 25) in 36.307	10.1.0
06-2011	RP-52	RP-110812	022			Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.1.0
09-2011	RP-53	RP-111255	025			Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.2.0
03-2012	RP-55	RP-120305	029			Introduction of Band 26/XXVI to TS 36.307	11.0.0
2012-06	RP-56	RP-120789	043			Introduction of CA_1A-19A to TS 36.307	11.1.0
2012-06	RP-56	RP-120793	049			Introduction of APAC700(FDD) into TS 36.307 Rel-11	11.1.0
2012-06	RP-56	RP-120793	053			Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.1.0
2012-06	RP-56	RP-120791	057			Introduction of e850_LB (Band 27) to TS 36.307	11.1.0
2012-09	RP-57	RP-121335	059			Introduction of CA_1A-21A to TS 36.307	11.2.0
2012-09	RP-57	RP-121295	070r1			Relation between EARFCN for overlapping bands with multiple FBI indication	11.2.0
2012-09	RP-57	RP-121338	072			36.307 CR for LTE_CA_B7	11.2.0
2012-09	RP-57	RP-121337	073			TS 36.307 CR for CA_38	11.2.0
2012-09	RP-57	RP-121327	074			Introduction of CA_B7_B20 in 36.307	11.2.0
2012-09	RP-57	RP-121329	075			Introduction of CA band combination Band3 + Band5 to TS 36.307	11.2.0
2012-09	RP-57	RP-121331	076			Introduction of CA_3A-20A to TS 36.307	11.2.0
2012-09	RP-57	RP-121334	077			Add requirements for inter-band CA of B_1-18 in TS36.307	11.2.0
2012-09	RP-57	RP-121333	078			Introduction of CA_8_20 RF requirements into TS36.307	11.2.0
2012-09	RP-57	RP-121324	079			Introduction of CA_B3_B7 in 36.307	11.2.0
2012-12	RP-58	RP-121890	086			Introduction of CA_4A-5A into 36.307	11.3.0
2012-12	RP-58	RP-121889	088			Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121896	091			Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307	11.3.0
2012-12	RP-58	RP-121884	092			Introduction of CA_3A-8A to TS 36.307	11.3.0
2012-12	RP-58	RP-121894	093			Introduction of CA_B5_B12 in 36.307	11.3.0
2012-12	RP-58	RP-121887	095			Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121882	097			[Rel-11] Introduction of inter-band CA_11-18 into TS36.307	11.3.0
2012-12	RP-58	RP-121861	099			Release-independent implementation of carrier aggregation configuration CA_4-7	11.3.0
2012-12	RP-58	RP-121901	101			Introduction of Band 29	11.3.0
2012-12	RP-58	RP-121718	0102			Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.3.0
2012-12	RP-58	RP-121720	0104			Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11)	11.3.0
2013-06	RP-60	RP-130771	107r1			Introduction of CA 1+8 into TS36.307(Rel-11)	11.4.0
2013-06	RP-60	RP-130782	110r1			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-11	11.4.0
2013-06	RP-60	RP-130785	113			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-11)	11.4.0

2013-06	RP-60	RP-130779	116		Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-11)	11.4.0
2013-06	RP-60	RP-130777	119		Introduction of CA_3A-19A to TS 36.307	11.4.0
2013-06	RP-60	RP-130783	122		Introduction of CA_19A-21A to TS 36.307	11.4.0
2013-06	RP-60	RP-130787	128		Introduction of CA_4A-4A into 36.307 Rel-11	11.4.0
2013-06	RP-60	RP-130775	130		Introduction of CA_2A-13A to TS 36.307	11.4.0
2013-06	RP-60	RP-130791	135r1		Introduction of Band 30	11.4.0
2013-06	RP-60	RP-130790	142		Introduction of LTE 450 into TS 36.307 R11	11.4.0
09-2013	RP-61	RP-131300	152		36.307 CR for LTE_CA_C_B3 (Rel-11)	11.5.0
09-2013	RP-61	RP-131303	155		Band 31 release independence for UE demodulation performance	11.5.0
09-2013	RP-61	RP-131285	158		[Rel-11] Modify requirements for CA_1A-18A in TS36.307	11.5.0
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