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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 12.10.0 Release 12)**



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

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 [2].

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

19.1 CA_41C UE

UEs that conform to Release 12 and support CA_41C shall support the following requirements in Release 13.

19.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41C specified in [4] which are listed in Table B.4.2-1 of [6].

19.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_41C specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

20 Void

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

21.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7C specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

22 Void

23 CA configuration CA_1A-18A Independent of Release

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 Void

23.2 CA_1A-18A UE with dual uplink

UEs that conform to Release 12 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 [4] which are listed in Table B.4.6-1 of [6].

23.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A specified in [5] which are listed in Table B.2.5-1 of [6].

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 [4].

24 Void

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 and Release 13 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 12 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 [4], which are listed in Table B.4.3-1 of [6].

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 [5], which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

25.2 CA_3A-5A UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

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 [5], which are listed in Table B.2.5-1 of [6].

25.2.3 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 [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.

26.1 CA_3A-7A UE

UEs that conform to Release 11 and support CA_3A-7A 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 [4] which are listed in Table B.4.3-1 of [6].

26.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

27 Void

28 Void

29 Void

30 Void

31 Void

32 Void

33 Void

34 CA configuration CA_4A-5A Independent of Release

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 Void

34.2 CA_4A-5A UE with dual uplink

UEs that conform to Release 12 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 [4] which are listed in Table B.4.6-1 of [6]

34.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A specified in [5] which are listed in Table B.2.5-1 of [6].

34.2.3 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 [4].

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 and Release 13 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 12 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 [4], which are listed in Table B.4.3-1 of [6].

Table 59.1.1-1: Void

35.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [5], which are listed in Table B.2.4-1 of [6].

Table 59.1.2-1: 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 [4] and listed in Table B.3.2-1 of [6].

35.2 CA_5A-7A UE with dual uplink

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

35.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A specified in [4], which are listed in Table B.4.6-1 of [6].

Table 59.2.1-1: Void

35.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [5], which are listed in Table B.2.5-1 of [6].

35.2.3 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 [4] and listed in Table B.3.2-1 of [6].

36 Void

37 Void

38 Void

39 Void

40 Void

41 Void

42 Void

43 Void

44 Void

45 Void

46 Void

47 Void

48 Void

49 Void

50 Void

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 12 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 [4], which are listed in Table B.4.5-1 of [6].

51.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A specified in [5], which are listed in Table B.2.3-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

51.2 CA_4A-4A UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.7-1 of [6].

51.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A specified in [5], which are listed in Table B.2.6-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

52 Void

53 CA configuration CA_1A-26A Independent of Release

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 Void

53.2 CA_1A-26A UE with dual uplink

UEs that conform to Release 12 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 [4] which are listed in Table B.4.6-1 of [6].

53.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-26A specified in [5] which are listed in Table B.2.5-1 of [6].

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 [4].

54 Void

55 CA configuration CA_2A-5A Independent of Release

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 Void

55.2 CA_2A-5A UE with dual uplink

UEs that conform to Release 12 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 [4] which are listed in Table B.4.6-1 of [6]

55.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A specified in [5] which are listed in Table B.2.5-1 of [6].

55.2.3 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 [4].

56 Void

57 Void

58 CA configuration CA_2A-12A Independent of Release

CA configuration CA_2A-12A 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_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 [4] which are listed in Table B.4.3-1 of [6].

58.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 and Release 13 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 12 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 [4], which are listed in Table B.4.3-1 of [6].

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 [5], which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

59.2 CA_5A-7A UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

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 [5], which are listed in Table B.2.5-1 of [6].

59.2.3 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 [4] and listed in Table B.3.2-1 of [6].

60 Void

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.

61.1 CA_7A-28A UE

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 [4] which are listed in Table B.4.3-1 of [6].

61.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-28A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

62 Void

63 Void

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

64.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-7A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

65 Void

66 Void

67 Void

68 Void

69 Void

70 Void

71 Void

72 Void

73 Void

74 Void

75 Void

76 Void

77 Void

78 Void

79 Void

80 Void

81 Void

82 CA configuration CA_18A-28A Independent of Release

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 Void

82.2 CA_18A-28A UE with dual uplink

UEs that conform to Release 12 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 [4] which are listed in Table B.4.6-1 of [6].

82.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_18A-28A specified in [5] which are listed in Table B.2.5-1 of [6].

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 [4].

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

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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

83.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A-7A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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

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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

84.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-5A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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-10 upwards.

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 one uplink

UEs that conform to Release 12 and support CA_1A-3A-8A with one uplink 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 [4] which are listed in Table B.4.3-1 of [6].

85.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

85.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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

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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

86.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

87 Void

88 Void

89 Void

90 Void

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

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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

91.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-21A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

92 Void

93 Void

94 Void

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

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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

95.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-12A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

96 Void

97 CA configuration CA_3A-7C Independent of Release

CA configuration CA_3A-7C with single 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].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

97.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C specified in [5].

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 [4] and listed in Table B.3.2-1 of [6].

97.2 CA_3A-7C UE with dual uplink

UEs that conform to Release 12 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 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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

98.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-20A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

99 Void

100 Void

101 Void

102 Void

103 Void

104 CA configuration CA_3C-7A Independent of Release

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 Void

104.2 CA_3C-7A UE with dual uplink

UEs that conform to Release 12 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 Void

106 Void

107 Void

108 Void

109 Void

110 Void

111 Void

112 Void

113 Void

114 Void

115 Void

116 Void

117 Void

118 Void

119 Void

120 Void

121 Void

122 CA configuration CA_1A-28A Independent of Release

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 Void

122.2 CA_1A-28A UE with dual uplink

UEs that conform to Release 12 and support CA_1A-28A with dual uplink 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 [4] which are listed in Table B.4.6-1 of [6].

122.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-28A specified in [5] which are listed in Table B.2.5-1 of [6].

122.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the the tests applicable for CA_1A-28A among the CA demodulation performance and CSI reporting requirements specified in [4].

123 Void

124 Void

125 Void

126 Void

127 Void

128 Void

129 Void

130 CA configuration CA_39C-41A Independent of Release

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].

CA configuration CA_39C-41A with three uplink is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

130.1 Void

130.2 CA_39C-41A UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

130.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41A specified in [5] and listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

130.3 CA_39C-41A UE with three uplink

UEs that conform to Release 12 and support CA_39C-41A with three uplink configuration shall support the following requirements in Release 13.

130.3.1 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 [4], which are listed in Table B.4.8-1 of [6].

130.3.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41A specified in [5] and listed in Table B.2.7-1 of [6].

130.3.3 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 [4] and listed in Table B.3.2-1 of [6].

131 CA configuration CA_39A-41C Independent of Release

CA configuration CA_39A-41C 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].

CA configuration CA_39A-41C with three uplink is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

131.1 Void

131.2 CA_39A-41C UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

131.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41C specified in [5] and listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

131.3 CA_39A-41C UE with three uplink

UEs that conform to Release 12 and support 39A-41C with three uplink configuration support the following requirements in Release 13.

131.3.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41C specified in [4], which are listed in Table B.4.8-1 of [6].

131.3.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41C specified in [5] and listed in Table B.2.7-1 of [6].

131.3.3 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 [4] and listed in Table B.3.2-1 of [6].

132 Void

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

133.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_4A-7A-12A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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

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 Void

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

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

134.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-13A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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

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 Void

135.2 CA_4A-5A-13A UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

135.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-13A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

136 CA configuration CA_1A-18A-28A Independent of Release

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 Void

136.2 CA_1A-18A-28A UE with dual uplink

UEs that conform to Release 12 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 [4], which are listed in Table B.4.6-1 of [6].

136.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A-28A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

137 Void

138 Void

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

139.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_4A-4A-7A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

140.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-3A-28A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

141.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-7A-28A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.4-1 of [6].

142.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_2A-5A-29A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

143.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3C-5A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

144.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-7B specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

145.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-7A-8A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

146 CA configuration CA_3A_7A_28A Independent of Release

CA configuration CA_3A-7A-28A with single 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].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

146.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-7A-28A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

146.2 CA_3A-7A-28A UE with dual uplink

UEs that conform to Release 12 and support CA_3A-7A-28A with dual uplink configurations 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 [4], which are listed in Table B.4.6-1 of [6].

146.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-28A specified in [5], which are listed in Table B.2.5-1 of [6].

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 [6].

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 12 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 [4] which are listed in Table B.4.4-1 of [6].

147.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_5A-29A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

148.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7B specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

149.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7B-28A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

150.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7C-28A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 for UE Categories specified in [7].

151.1 CA_40A-40A UE

UEs that conform to Release 12 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 [4] which are listed in Table B.4.5-1 of [6].

151.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_40A-40A specified in [5] which are listed in Table B.2.3-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

152.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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-11 upwards for UE Categories specified in [7].

153.1 CA_38A-40C UE

UEs that conform to Release 12 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 [4] which are listed in Table B.4.3-1 of [6].

153.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40C specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 for UE Categories specified in [7].

154.1 CA_38A-40A-40A UE

UEs that conform to Release 12 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 [4] which are listed in Table B.4.3-1 of [6].

154.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

155.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_41A-42C specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

156.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-28A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

157.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-31A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

158.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-28A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

159.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-22A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

160.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-31A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

161.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-26A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

162.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_42D specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4], which are listed in section B.3.2-1 of [6].

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 12 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 [6].

163.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A specified in [5].

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 [4].

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 12 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 [6].

164.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A-4A specified in [5].

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 [4].

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 12 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 [6].

165.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-5A specified in [5].

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 [4].

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 12 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 [6].

166.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-5A-30A specified in [5].

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 [4].

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 12 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 [6].

167.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-12A specified in [5].

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 [4].

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 12 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 [6].

168.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-30A specified in [5].

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 [4].

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 12 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 [6].

169.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-12A-30A specified in [5].

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 [4].

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 12 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 [6].

170.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C-29A-30A specified in [5].

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 [4].

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 12 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 [6].

171.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A-12A specified in [5].

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 [4].

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 12 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 [6].

172.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-4A-12A specified in [5].

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 [4].

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 12 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 [6].

173.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A-30A specified in [5].

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 [4].

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 12 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 [6].

174.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-30A specified in [5].

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 [4].

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 12 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 [6].

175.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-12A-30A specified in [5].

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 [4].

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 12 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 [6].

176.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-29A-30A specified in [5].

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 [4].

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 12 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 [4], which are listed in Table B.4.3-1 of [6].

177.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_42C-42A and CA_42A-42C specified in [5], which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

178.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_2A-2A-12A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

179.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-3A-8A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

180 CA configuration CA_1A-3A-42A Independent of Release

CA configuration CA_1A-3A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

180.1 CA_1A-3A-42A UE

UEs that conform to Release 12 and support CA_1A-3A-42A shall support the following requirements in Release 13.

180.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

180.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-3A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

180.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

181 CA configuration CA_1A-19A-42A Independent of Release

CA configuration CA_1A-19A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

181.1 CA_1A-19A-42A UE

UEs that conform to Release 12 and support CA_1A-19A-42A shall support the following requirements in Release 13.

181.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

181.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-19A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

181.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

182 CA configuration CA_1A-21A-42A Independent of Release

CA configuration CA_1A-21A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

182.1 CA_1A-21A-42A UE

UEs that conform to Release 12 and support CA_1A-21A-42A shall support the following requirements in Release 13.

182.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-21A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

182.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-21A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

182.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-21A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

183 CA configuration CA_3A-19A-42A Independent of Release

CA configuration CA_3A-19A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

183.1 CA_3A-19A-42A UE

UEs that conform to Release 12 and support CA_3A-19A-42A shall support the following requirements in Release 13.

183.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

183.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-19A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

183.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

184 CA configuration CA_8A_41A Independent of Release

CA configuration CA_8A-41A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

184.1 CA_8A-41A UE

UEs that conform to Release 12 and support CA_8A-41A shall support the following requirements in Release 13.

184.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8A-41A specified in [4] which are listed in Table B.4.3-1 of [6].

184.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_8A-41A specified in [5] which are listed in Table B.2.2-1 of [6].

184.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8A-41A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

185 CA configuration CA_8A_41C Independent of Release

CA configuration CA_8A-41C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

185.1 CA_8A-41C UE

UEs that conform to Release 12 and support CA_8A-41C shall support the following requirements in Release 13.

185.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8A-41C specified in [4] which are listed in Table B.4.3-1 of [6].

185.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_8A-41C specified in [5] which are listed in Table B.2.2-1 of [6].

185.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8A-41C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

186 CA configuration CA_19A-21A-42A Independent of Release

CA configuration CA_19A-21A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

186.1 CA_19A-21A-42A UE

UEs that conform to Release 12 and support CA_19A-21A-42A shall support the following requirements in Release 13.

186.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

186.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_19A-21A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

186.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

187 CA configuration CA_21A_42A Independent of Release

CA configuration CA_21A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

187.1 CA_21A-42A UE

UEs that conform to Release 12 and support CA_21A-42A shall support the following requirements in Release 13.

187.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_21A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

187.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_21A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

187.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_21A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

188 CA configuration CA_21A_42C Independent of Release

CA configuration CA_21A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

188.1 CA_21A-42C UE

UEs that conform to Release 12 and support CA_21A-42C shall support the following requirements in Release 13.

188.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_21A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

188.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_21A-42C specified in [5] which are listed in Table B.2.2-1 of [6].

188.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_21A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

189 CA configuration CA_25A-41D Independent of Release

CA configuration CA_25A-41D is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

189.1 CA_25A-41D UE

UEs that conform to Release 12 and support CA_25A-41D shall support the following requirements in Release 13.

189.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_25A-41D specified in [4] which are listed in Table B.4.3-1 of [6].

189.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-41D specified in [5].

189.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_25A-41D among the CA demodulation performance and CSI reporting requirements demodulation performance and CSI reporting specified in [4].

190 CA configuration CA_1A-40A Independent of Release

CA configuration CA_1A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

190.1 CA_1A-40A UE

UEs that conform to Release 12 and support CA_1A-40A shall support the following requirements in Release 13.

190.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

190.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

190.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

191 CA configuration CA_3A-38A Independent of Release

CA configuration CA_3A-38A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

191.1 CA_3A-38A UE

UEs that conform to Release 12 and support CA_3A-38A shall support the following requirements in Release 13.

191.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-38A specified in [4] which are listed in Table B.4.3-1 of [6].

191.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-38A specified in [5] which are listed in Table B.2.4-1 of [6].

191.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-38A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

192 CA configuration CA_5A-40A Independent of Release

CA configuration CA_5A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

192.1 CA_5A-40A UE

UEs that conform to Release 12 and support CA_5A-40A shall support the following requirements in Release 13.

192.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

192.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

192.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-40A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

193 CA configuration CA_3A-40C Independent of Release

CA configuration CA_3A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

193.1 CA_3A-40C UE

UEs that conform to Release 12 and support CA_3A-40C shall support the following requirements in Release 13.

193.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-40C specified in [4] which are listed in Table B.4.3-1 of [6].

193.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-40C specified in [5] which are listed in Table B.2.4-1 of [6].

193.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-40C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

194 CA configuration CA_3A-40A Independent of Release

CA configuration CA_3A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

194.1 CA_3A-40A UE

UEs that conform to Release 12 and support CA_3A-40A shall support the following requirements in Release 13.

194.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

194.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

194.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

195.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-5A-29A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

196.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A-29A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

197 CA configuration CA_1A-3A-19A-42A Independent of Release

CA configuration CA_1A-3A-19A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

197.1 CA_1A-3A-19A-42A UE

UEs that conform to Release 12 and support CA_1A-3A-19A-42A shall support the following requirements in Release 13.

197.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-19A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

197.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A-42A specified in [5] which are listed in Table B.2.4-1 of [6].

197.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-19A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

198 CA configuration CA_1A-19A-21A-42A Independent of Release

CA configuration CA_1A-19A-21A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

198.1 CA_1A-19A-21A-42A UE

UEs that conform to Release 12 and support CA_1A-19A-21A-42A shall support the following requirements in Release 13.

198.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-21A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

198.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-21A-42A specified in [5] which are listed in Table B.2.4-1 of [6].

198.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-21A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

199 CA configuration CA_1A-3A-42C Independent of Release

CA configuration CA_1A-3A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

199.1 CA_1A-3A-42C UE

UEs that conform to Release 12 and support CA_1A-3A-42C shall support the following requirements in Release 13.

199.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

199.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

199.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

200 CA configuration CA_1A-19A-42C Independent of Release

CA configuration CA_1A-19A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

200.1 CA_1A-19A-42C UE

UEs that conform to Release 12 and support CA_1A-19A-42C shall support the following requirements in Release 13.

200.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

200.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

200.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

201 CA configuration CA_1A-21A-42C Independent of Release

CA configuration CA_1A-21A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

201.1 CA_1A-21A-42C UE

UEs that conform to Release 12 and support CA_1A-21A-42C shall support the following requirements in Release 13.

201.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-21A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

201.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-21A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

201.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-21A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

202 CA configuration CA_3A-19A-42C Independent of Release

CA configuration CA_3A-19A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

202.1 CA_3A-19A-42C UE

UEs that conform to Release 12 and support CA_3A-19A-42C shall support the following requirements in Release 13.

202.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

202.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-19A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

202.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

203 CA configuration CA_19A-21A-42C Independent of Release

CA configuration CA_19A-21A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

203.1 CA_19A-21A-42C UE

UEs that conform to Release 12 and support CA_19A-21A-42C shall support the following requirements in Release 13.

203.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

203.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-21A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

203.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

204 CA configuration CA_1A-42A 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 and Release 13 but is defined as a release-independent CA configuration for Rel-11 upwards.

204.1 CA_1A-42A UE with single uplink

Void.

204.2 CA_1A-42A UE with dual uplink

UEs that conform to Release 12 and support CA_1A-42A with dual uplink shall support the following requirements in Release 13.

204.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-42A specified in [4], which are listed in Table B.4.6-1 of [6].

Table 25.2.1-1: Void

204.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-42A specified in [5], which are listed in Table B.2.5-1 of [6].

204.2.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-42A among the CA demodulation performance and CSI reporting requirements specified in [4].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

205.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-28A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

206.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-19A-28A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

207.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-8A-11A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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.

208.1 CA_1A-3C UE

UEs that conform to Release 12 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 [4] which are listed in Table B.4.3-1 of [6].

208.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3C specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

209 CA configuration CA_20A-42A Independent of Release

CA configuration CA_20A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

209.1 CA_20A-42A UE

UEs that conform to Release 12 and support CA_20A-42A shall support the following requirements in Release 13.

209.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

209.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-42A specified in [5] which are listed in Table B.2.4-1 of [6].

209.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

210 CA configuration CA_20A-42A-42A Independent of Release

CA configuration CA_20A-42A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

210.1 CA_20A-42A-42A UE

UEs that conform to Release 12 and support CA_20A-42A-42A shall support the following requirements in Release 13.

210.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-42A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

210.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_20A-42A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

210.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-42A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

211 CA configuration CA_3A-8A-40A Independent of Release

CA configuration CA_3A-8A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

211.1 CA_3A-8A-40A UE

UEs that conform to Release 12 and support CA_3A-8A-40A shall support the following requirements in Release 13.

211.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-8A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

211.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-8A-40A specified in [5] which are listed in Table B.2.2-1 of [6].

211.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-8A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

212 CA configuration CA_7A-40A Independent of Release

CA configuration CA_7A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

212.1 CA_7A-40A UE

UEs that conform to Release 12 and support CA_7A-40A shall support the following requirements in Release 13.

212.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

212.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

212.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

213 CA configuration CA_7A-40C Independent of Release

CA configuration CA_7A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

213.1 CA_7A-40C UE

UEs that conform to Release 12 and support CA_7A-40C shall support the following requirements in Release 13.

213.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-40C specified in [4] which are listed in Table B.4.3-1 of [6].

213.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-40C specified in [5] which are listed in Table B.2.4-1 of [6].

213.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-40C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4], which are listed in Table B.4.1-1 of [6].

214.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 45 specified in [5], which are listed in Table B.2.1-1 of [6].

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 12 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 [4], which are listed in Table B.4.1-1 of [6].

215.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 65 specified in [5], which are listed in Table B.2.1-1 of [6].

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 12 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 [4], which are listed in Table B.4.1-1 of [6].

216.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 66 specified in [5], which are listed in Table B.2.1-1 of [6].

217 CA configuration CA_66B Independent of Release

CA configuration CA_66B is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

217.1 CA_66B UE

UEs that conform to Release 12 and support CA_66B shall support the following requirements in Release 13.

217.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_66B specified in [4] which are listed in Table B.4.2-1 of [6].

217.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_66B specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

218 CA configuration CA_66C Independent of Release

CA configuration CA_66C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

218.1 CA_66C UE

UEs that conform to Release 12 and support CA_66C shall support the following requirements in Release 13.

218.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_66C specified in [4] which are listed in Table B.4.2-1 of [6].

218.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_66C specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.5-1 of [6].

219.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_66A-66A specified in [5] which are listed in Table B.2.3-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

220.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_5B specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

221.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_8B specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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-12 upwards.

222.1 CA_20A-67A UE

UEs that conform to Release 12 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 [4] which are listed in Table B.4.3-1 of [6].

222.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-67A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

223.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-3A-7A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

224.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-11A-18A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 for UE Categories specified in [7].

225.1 CA_4A-7A UE

UEs that conform to Release 10 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 [4] which are listed in Table B.4.3-1 of [6].

225.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A specified in [5] which are listed in Table B.2.4-1 of [6].

225.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-7A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

226.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-12B specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

227.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-12B specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

228 CA configuration CA_28A-40D Independent of Release

CA configuration CA_28A-40D is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

228.1 CA_28A-40D UE

UEs that conform to Release 12 and support CA_28A-40D shall support the following requirements in Release 13.

228.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_28A-40D specified in [4] which are listed in Table B.4.3-1 of [6].

228.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_28A-40D specified in [5] which are listed in Table B.2.4-1 of [6].

228.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_28A-40D among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

229.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41D specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

230.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41C specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

231.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-42A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

232.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41C-42C specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

233.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-4A-5A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

234.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-2A-5A-12A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

235.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-12B specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

236.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-4A-5A-12A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

237.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-4A-5A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

238.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-8A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

239.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C-28A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

240 CA configuration CA_3A-28A-40A Independent of Release

CA configuration CA_3A-28A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

240.1 CA_3A-28A-40A UE

UEs that conform to Release 12 and support CA_3A-28A-40A shall support the following requirements in Release 13.

240.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-28A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

240.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-28A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

240.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-28A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

241 CA configuration CA_3A-28A-40C Independent of Release

CA configuration CA_3A-28A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

241.1 CA_3A-28A-40C UE

UEs that conform to Release 12 and support CA_3A-28A-40C shall support the following requirements in Release 13.

241.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-28A-40C specified in [4] which are listed in Table B.4.3-1 of [6].

241.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-28A-40C specified in [5] which are listed in Table B.2.4-1 of [6].

241.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-28A-40C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

242.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-5A-12A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.3-1 of [6].

243.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-7A-8A specified in [5] which are listed in Table B.2.4-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

244 CA configuration CA_1A-3A-8A-40A Independent of Release

CA configuration CA_1A-3A-8A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

244.1 CA_1A-3A-8A-40A UE

UEs that conform to Release 12 and support CA_1A-3A-8A-40A shall support the following requirements in Release 13.

244.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-8A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

244.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

244.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-8A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

245 CA configuration CA_1A-5A-40A Independent of Release

CA configuration CA_1A-5A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

245.1 CA_1A-5A-40A UE

UEs that conform to Release 12 and support CA_1A-5A-40A shall support the following requirements in Release 13.

245.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-5A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

245.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-5A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

245.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-5A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

246 CA configuration CA_3A-5A-40A Independent of Release

CA configuration CA_3A-5A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

246.1 CA_3A-5A-40A UE

UEs that conform to Release 12 and support CA_3A-5A-40A shall support the following requirements in Release 13.

246.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-5A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

246.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-5A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

246.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-5A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

247 CA configuration CA_1A-3A-5A-40A Independent of Release

CA configuration CA_1A-3A-5A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

247.1 CA_1A-3A-5A-40A UE

UEs that conform to Release 12 and support CA_1A-3A-5A-40A shall support the following requirements in Release 13.

247.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-5A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

247.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-5A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

247.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-5A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

248 CA configuration CA_5A-40C Independent of Release

CA configuration CA_5A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

248.1 CA_5A-40C UE

UEs that conform to Release 12 and support CA_5A-40C shall support the following requirements in Release 13.

248.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-40C specified in [4] which are listed in Table B.4.3-1 of [6].

248.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_5A-40C specified in [5] which are listed in Table B.2.2-1 of [6].

248.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-40C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

249 CA configuration CA_3A-41C Independent of Release

CA configuration CA_3A-41C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

249.1 CA_3A-41C UE

UEs that conform to Release 12 and support CA_3A-41C shall support the following requirements in Release 13.

249.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-41C specified in [4] which are listed in Table B.4.3-1 of [6].

249.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-41C specified in [5] which are listed in Table B.2.2-1 of [6].

249.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-41C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

250 CA configuration CA_28A-41C Independent of Release

CA configuration CA_28A-41C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

250.1 CA_28A-41C UE

UEs that conform to Release 12 and support CA_28A-41C shall support the following requirements in Release 13.

250.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_28A-41C specified in [4] which are listed in Table B.4.3-1 of [6].

250.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_28A-41C specified in [5] which are listed in Table B.2.2-1 of [6].

250.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_28A-41C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

251 CA configuration CA_28A-40C Independent of Release

CA configuration CA_28A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

251.1 CA_28A-40C UE

UEs that conform to Release 12 and support CA_28A-40C shall support the following requirements in Release 13.

251.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_28A-40C specified in [4] which are listed in Table B.4.3-1 of [6].

251.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_28A-40C specified in [5] which are listed in Table B.2.2-1 of [6].

251.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_28A-40C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

252 CA configuration CA_28A-40A Independent of Release

CA configuration CA_28A-40A is specified in Release 11 and Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

252.1 CA_28A-40A UE

UEs that conform to Release 10 and support CA_28A-40A shall support the following requirements in Release 13.

252.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_28A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

252.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_28A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

252.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_28A-40A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

253 CA configuration CA_7A-42A-42A Independent of Release

CA configuration CA_7A-42A-42A is specified in Release 12 and Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

253.1 CA_7A-42A-42A UE

UEs that conform to Release 12 and support CA_7A-42A-42A shall support the following requirements in Release 13.

253.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-42A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

253.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7A-42A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

253.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-42A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

254 CA configuration CA_7A-42A Independent of Release

CA configuration CA_7A-42A is specified in Release 11 and Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

254.1 CA_7A-42A UE

UEs that conform to Release 10 and support CA_7A-42A shall support the following requirements in Release 13.

254.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

254.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-42A specified in [5] which are listed in Table B.2.4-1 of [6].

254.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-42A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

255 CA configuration CA_28A-42C Independent of Release

CA configuration CA_28A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

255.1 CA_28A-42C UE

UEs that conform to Release 12 and support CA_28A-42C shall support the following requirements in Release 13.

255.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_28A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

255.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_28A-42C specified in [5] which are listed in Table B.2.2-1 of [6].

255.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_28A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

256 CA configuration CA_28A-42A Independent of Release

CA configuration CA_28A-42A is specified in Release 11 and Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

256.1 CA_28A-42A UE

UEs that conform to Release 10 and support CA_28A-42A shall support the following requirements in Release 13.

256.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_28A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

256.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_28A-42A specified in [5] which are listed in Table B.2.4-1 of [6].

256.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_28A-42A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

257 CA configuration CA_1A-8A-40A Independent of Release

CA configuration CA_1A-8A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

257.1 CA_1A-8A-40A UE

UEs that conform to Release 12 and support CA_1A-8A-40A shall support the following requirements in Release 13.

257.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

257.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-8A-40A specified in [5] which are listed in Table B.2.2-1 of [6].

257.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

258 CA configuration CA_1A-3A-40A Independent of Release

CA configuration CA_1A-3A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

258.1 CA_1A-3A-40A UE

UEs that conform to Release 12 and support CA_1A-3A-40A shall support the following requirements in Release 13.

258.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

258.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_1A-3A-40A specified in [5] which are listed in Table B.2.2-1 of [6].

258.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

259 CA configuration CA_3A-41A-42A Independent of Release

CA configuration CA_3A-41A-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

259.1 CA_3A-41A-42A UE

UEs that conform to Release 12 and support CA_3A-41A-42A shall support the following requirements in Release 13.

259.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-41A-42A specified in [4] which are listed in Table B.4.3-1 of [6].

259.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-41A-42A specified in [5] which are listed in Table B.2.2-1 of [6].

259.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-41A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

260 CA configuration CA_3A-7A-38A Independent of Release

CA configuration CA_3A-7A-38A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

260.1 CA_3A-7A-38A UE

UEs that conform to Release 12 and support CA_3A-7A-38A shall support the following requirements in Release 13.

260.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-7A-38A specified in [4] which are listed in Table B.4.3-1 of [6].

260.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3A-7A-38A specified in [5] which are listed in Table B.2.2-1 of [6].

260.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-38A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

261 CA configuration CA_7A-20A-38A Independent of Release

CA configuration CA_7A-20A-38A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards for UE Categories specified in [7].

261.1 CA_7A-20A-38A UE

UEs that conform to Release 12 and support CA_7A-20A-38A shall support the following requirements in Release 13.

261.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-20A-38A specified in [4] which are listed in Table B.4.3-1 of [6].

261.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7A-20A-38A specified in [5] which are listed in Table B.2.2-1 of [6].

261.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-20A-38A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

262.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_5A-5A specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4], which are listed in Table B.4.7-1 of [6].

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 [5], which are listed in Table B.2.6-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

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 12 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 [4] which are listed in Table B.4.2-1 of [6].

264.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_42E specified in [5] which are listed in Table B.2.2-1 of [6].

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 [4], which are listed in section B.3.2-1 of [6].

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 12 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 [4], which are listed in Table B.4.3-1 of [6].

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 [5], which are listed in Table B.2.2-1 of [6].

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 [4] and listed in Table B.3.2-1 of [6].

266 CA configuration CA_1A-3A-19A-42C Independent of Release

CA configuration CA_1A-3A-19A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

266.1 CA_1A-3A-19A-42C UE

UEs that conform to Release 12 and support CA_1A-3A-19A-42C shall support the following requirements in Release 13.

266.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-19A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

266.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

266.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-19A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

267 CA configuration CA_1A-19A-21A-42C Independent of Release

CA configuration CA_1A-19A-21A-42C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

267.1 CA_1A-19A-21A-42C UE

UEs that conform to Release 12 and support CA_1A-19A-21A-42C shall support the following requirements in Release 13.

267.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-21A-42C specified in [4] which are listed in Table B.4.3-1 of [6].

267.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-21A-42C specified in [5] which are listed in Table B.2.4-1 of [6].

267.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-21A-42C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

268 CA configuration CA_3A-41A Independent of Release

CA configuration CA_3A-41A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

268.1 CA_3A-41A UE

UEs that conform to Release 12 and support CA_3A-41A shall support the following requirements in Release 13.

268.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-41A specified in [4] which are listed in Table B.4.3-1 of [6].

268.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-41A specified in [5] which are listed in Table B.2.4-1 of [6].

268.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-41A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

269 CA configuration CA_20A-40A Independent of Release

CA configuration CA_20A-40A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

269.1 CA_20A-40A UE

UEs that conform to Release 12 and support CA_20A-40A shall support the following requirements in Release 13.

269.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-40A specified in [4] which are listed in Table B.4.3-1 of [6].

269.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-40A specified in [5] which are listed in Table B.2.4-1 of [6].

269.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-40A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

270 CA configuration CA_5A-38A Independent of Release

CA configuration CA_5A-38A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

270.1 CA_5A-38A UE

UEs that conform to Release 12 and support CA_5A-38A shall support the following requirements in Release 13.

270.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-38A specified in [4] which are listed in Table B.4.3-1 of [6].

270.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-38A specified in [5] which are listed in Table B.2.4-1 of [6].

270.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-38A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [6].

271 CA configuration CA_25A-41C Independent of Release

CA configuration CA_25A-41C with 2UL/3DLs is specified in Release 13 but is defined as a release-independent CA configuration for Rel-12 upwards.

271.1 Void

271.2 CA_25A-41C UE with dual uplink

UEs that conform to Release 12 and support CA_25A-41C with dual uplink configuration as CA_41C shall support the following requirements in Release 13.

271.2.1 RF Requirements

The UE shall comply with the RF requirements for CA_25A-41C specified in [9], which are listed in Table B.4.6-1 of [11].

271.2.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-41C specified in [10], which are listed in Table B.2.5-1 of [11].

271.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_25A-41C 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].

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 [3].

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). - for supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when $l_0 \leq -70\text{dBm}$ is $\pm 6\text{dB}$. - for supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is $\pm 6\text{dB}$. <p>NOTE 6: In addition to the exceptions above, all requirements and test cases in this table shall apply, except those defined for:</p> <ul style="list-style-type: none"> - carrier aggregation; - for supporting the corresponding band in Rel-9 or below: measurements under time-domain measurement resource restriction without CRS assistance information; - for supporting the corresponding band in Rel-10 or below: measurements under time-domain measurement resource restriction with CRS assistance information; - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12. 	

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 [3].

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 ^{Note 3}	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 ^{Note 3}	Measurement Performance Requirements
<p>NOTE 1: Only requirements and test cases defined for intra-band contiguous carrier aggregation shall apply.</p> <p>NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except:</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12. <p>NOTE 3: - For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when $l_0 \leq -70\text{dBm}$ is $\pm 6\text{dB}$.</p> <ul style="list-style-type: none"> - For supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is $\pm 6\text{dB}$. 	

B.2.3 Common RRM requirements for an intra-band non-contiguous CA with single uplink configuration

The requirements and test cases listed in Table B.2.3-1 are specified in [3].

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 ^{Note 3}	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 ^{Note 3}	Measurement Performance Requirements
<p>NOTE 1: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation with single uplink shall apply.</p> <p>NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except:</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12. <p>NOTE 3: - For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when $l_0 \leq -70\text{dBm}$ is $\pm 6\text{dB}$.</p> <ul style="list-style-type: none"> - for supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is $\pm 6\text{dB}$. 	

B.2.4 Common RRM requirements for an inter-band CA with single uplink configuration

The requirements and test cases listed in Table B.2.4-1 are specified in [3].

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 ^{Note 3}	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 ^{Note 3}	Measurement Performance Requirements
NOTE 1: Only requirements and test cases defined for inter-band with single uplink carrier aggregation shall apply.	
NOTE 2: In addition to the exceptions above, all requirements and test cases in this table shall apply, except: - for supporting the corresponding band in Rel-11 or below: requirements introduced in Rel-12.	
NOTE 3: - For supporting the corresponding band in Rel-11 or below: the RSRP absolute accuracy requirement under normal conditions in table 9.1.2.1-1, 9.1.2.3-1, 9.1.2.5-1 and 9.1.3.1-1 when $I_{o \leq -70\text{dBm}}$ is $\pm 6\text{dB}$. - for supporting the corresponding band in Rel-11 or below: the interfrequency RSRP relative accuracy requirement under normal conditions in table 9.1.3.2-1 is $\pm 6\text{dB}$.	

B.2.5 Common RRM requirements for an inter-band CA with dual uplink configuration

The requirements and test cases listed in Table B.2.5-1 are specified in [3].

Table B.2.5-1: Common RRM requirements for a band-combination CA configuration with dual uplink

Section / Clause	Description
TBD	TBD
NOTE 1: Only requirements and test cases defined for inter-band with dual uplink carrier aggregation shall apply.	

B.2.6 Common RRM requirements for an intra-band non-contiguous CA with dual uplink configuration

The requirements and test cases listed in Table B.2.6-1 are specified in [3].

Table B.2.6-1: Common RRM requirements for a single-band CA configuration with dual uplink independent of release

Section / Clause	Description
TBD	TBD
NOTE 1: Only requirements and test cases defined for intra-band non-contiguous carrier aggregation with dual uplinks 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

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)
8.2.1.4.3A	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (DC)
8.2.2.4.3	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (TDD)
8.2.2.4.4	Closed-loop spatial multiplexing performance - Minimum Requirement Multi-Layer Spatial Multiplexing 4 Tx Antenna Port (DC)
8.2.1.7	Carrier aggregation with power imbalance (FDD)
8.2.1.8	Intra-band non-contiguous carrier aggregation with timing offset (FDD)
8.2.2.7	Carrier aggregation with power imbalance (TDD)
8.7.1	Sustained downlink data rate provided by lower layers (FDD)
8.7.2	Sustained downlink data rate provided by lower layers (TDD)
8.7.5	Sustained downlink data rate provided by lower layers (TDD-FDD CA)
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 [2].	
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 [2].

Table B.4.1-1: Common UE RF requirements for a band independent of release

Section / 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	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

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 [2].

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 output power for CA
6.3.3A	UE Transmit 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 single uplink inter-band CA configuration

The requirements and test cases listed in Table B.4.3-1 are specified in [2].

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 [2].

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 a single uplink intra-band non-contiguous CA configuration

The requirements and test cases listed in Table B.4.5-1 are specified in [2].

Table B.4.5-1: Common UE RF requirements for a single uplink 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

B.4.6 Common UE RF requirements for Dual uplink inter-band CA configuration

The requirements and test cases listed in Table B.4.6-1 are specified in [2].

Table B.4.6-1: Common UE RF requirements for dual uplink inter-band CA configuration independent of release

Section / Clause	Description
5.6A.1	Channel bandwidths per operating band for CA
6.2.2A	UE maximum output power for CA
6.2.5A	Configured transmitted Power for CA
6.3.2A	UE Minimum output power for CA
6.3.3A	UE Transmit 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
6.6.2.3	Adjacent Channel Leakage Ratio
6.6.3.1A	Spurious Emission for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
6.7.1A	Transmit intermodulation for CA
7.3.1A	Reference sensitivity for CA
7.6.2.1A	Out-of-band blocking for CA
7.7.1A	Spurious response for CA

B.4.7 Common UE RF requirements for Dual uplink intra-band non-contiguous CA configuration

The requirements and test cases listed in Table B.4.7-1 are specified in [2].

Table B.4.7-1: Common UE RF requirements for dual uplink intra-band non-contiguous CA configuration independent of release

Section / Clause	Description
5.6A.1	Channel bandwidths per operating band for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE Maximum Output power for modulation / channel bandwidth for CA
6.2.5A	Configured transmitted Power for CA
6.3.2A	UE Minimum output power for CA
6.3.3A	UE Transmit 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
6.6.2.3	Adjacent Channel Leakage Ratio
6.6.3.1A	Spurious Emission for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
7.3.1A	Reference sensitivity for CA
7.6.2.1A	Out-of-band blocking for CA
7.7.1A	Spurious response for CA

Annex C (informative): Change history

Table C.1: Change History

Date	TSG#	TSG Doc.	CR	Subject	Old	New
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.	0.1.0	0.2.0
03-2010	RP#47	RP-100162		TS36.307 v1.0.0 for approval	0.2.0	1.0.0
03-2010	RP#47	RP-100162		Approved by RAN	1.0.0	9.0.0
09-2010	RP-49	RP-100927	2	CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.0.0	9.1.0
				Correction of section numbering	9.1.0	9.1.1
12-2010	RP-50	RP-101356	008	Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.1.1	9.2.0
12-2010	RP-50	RP-101361	005	Introduction of L-band in TS 36.307	9.1.1	9.2.0
12-2010	RP-50	RP-101344	016	CR creating the rel-10 of the 36.307 specification	9.2.0	9.3.0
12-2010	RP-50	RP-101356	012	Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0	9.3.0
12-2010	RP-50			Raised to Rel-10 with no technical change	9.3.0	10.0.0
01-2011				Correction to history table	10.0.0	10.0.1
06-2011	RP-52	RP-110804	015	Add Expanded 1900 MHz Band (Band 25) in 36.307	10.0.1	10.1.0
06-2011	RP-52	RP-110812	022	Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.0.1	10.1.0
09-2011	RP-53	RP-111255	025	Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.1.0	10.2.0
03-2012	RP-55	RP-120305	029	Introduction of Band 26/XXVI to TS 36.307	10.2.0	11.0.0
2012-06	RP-56	RP-120789	043	Introduction of CA_1A-19A to TS 36.307	11.0.0	11.1.0
2012-06	RP-56	RP-120793	049	Introduction of APAC700(FDD) into TS 36.307 Rel-11	11.0.0	11.1.0
2012-06	RP-56	RP-120793	053	Introduction of APAC700(TDD) into TS 36.307 Rel-11	11.0.0	11.1.0
2012-06	RP-56	RP-120791	057	Introduction of e850_LB (Band 27) to TS 36.307	11.0.0	11.1.0
2012-09	RP-57	RP-121335	059	Introduction of CA_1A-21A to TS 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121295	070r1	Relation between EARFCN for overlapping bands with multiple FBI indication	11.1.0	11.2.0
2012-09	RP-57	RP-121338	072	36.307 CR for LTE_CA_B7	11.1.0	11.2.0
2012-09	RP-57	RP-121337	073	TS 36.307 CR for CA_38	11.1.0	11.2.0
2012-09	RP-57	RP-121327	074	Introduction of CA_B7_B20 in 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121329	075	Introduction of CA band combination Band3 + Band5 to TS 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121331	076	Introduction of CA_3A-20A to TS 36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121334	077	Add requirements for inter-band CA of B_1-18 in TS36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121333	078	Introduction of CA_8_20 RF requirements into TS36.307	11.1.0	11.2.0
2012-09	RP-57	RP-121324	079	Introduction of CA_B3_B7 in 36.307	11.1.0	11.2.0
2012-12	RP-58	RP-121890	086	Introduction of CA_4A-5A into 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121889	088	Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-11)	11.2.0	11.3.0
2012-12	RP-58	RP-121896	091	Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121884	092	Introduction of CA_3A-8A to TS 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121894	093	Introduction of CA_B5_B12 in 36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121887	095	Introduction of CA_4-12 into TS 36.307 (Rel-11)	11.2.0	11.3.0
2012-12	RP-58	RP-121882	097	[Rel-11] Introduction of inter-band CA_11-18 into TS36.307	11.2.0	11.3.0
2012-12	RP-58	RP-121861	099	Release-independent implementation of carrier aggregation configuration CA_4-7	11.2.0	11.3.0
2012-12	RP-58	RP-121901	101	Introduction of Band 29	11.2.0	11.3.0
2012-12	RP-58	RP-121718	0102	Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-11)	11.2.0	11.3.0
2012-12	RP-58	RP-121720	0104	Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-11)	11.2.0	11.3.0
2013-06	RP-60	RP-130771	108	Introduction of CA 1+8 into TS36.307(Rel-12)	11.3.0	12.0.0
2013-06	RP-60	RP-130782	111	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-12	11.3.0	12.0.0
2013-06	RP-60	RP-130785	114	Introduction of LTE Advanced inter-band Carrier Aggregation of	11.3.0	12.0.0

				Band 23 and Band 29 to TS 36.307 (Rel-12)		
2013-06	RP-60	RP-130779	117	Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-12)	11.3.0	12.0.0
2013-06	RP-60	RP-130777	120	Introduction of CA_3A-19A to TS 36.307	11.3.0	12.0.0
2013-06	RP-60	RP-130783	123	Introduction of CA_19A-21A to TS 36.307	11.3.0	12.0.0
2013-06	RP-60	RP-130775	131	Introduction of CA_2A-13A to TS 36.307	11.3.0	12.0.0
2013-06	RP-60	RP-130791	136	Introduction of Band 30	11.3.0	12.0.0
2013-06	RP-60	RP-130790	143	Introduction of LTE 450 into TS 36.307 R12	11.3.0	12.0.0
2013-06	RP-60	RP-130787	150	Introduction of CA_4A-4A into 36.307 Rel-12	11.3.0	12.0.0
09-2013	RP-61	RP-131300	153	36.307 CR for LTE_CA_C_B3 (Rel-12)	12.0.0	12.1.0
09-2013	RP-61	RP-131296	160	[Rel-12] Add requirements for CA_1A-26A into TS36.307	12.0.0	12.1.0
09-2013	RP-61	RP-131297	163	Introduction of CA_2A-4A to TS 36.307	12.0.0	12.1.0
09-2013	RP-61	RP-131298	167	Introduction of inter-band CA Band 2+5	12.0.0	12.1.0
12-2013	RP-62	RP-131965	173	Introduction of CA_23A-23A to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131946	178	Introduction of CA band combination Band2 + Band12 to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131954	181	Introduction of CA band combination Band12 + Band25 to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131959	184	Introduction of LTE_CA_C_B27 to 36.307 (Rel-12)	12.1.0	12.2.0
12-2013	RP-62	RP-131957	192	Introduction of CA_23B to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131961	194	Introduction of Intra-band non-contiguous CA in band 3 to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131950	200	Introduction of CA band combination Band5 + Band25 to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131967	201r1	Introducing 'General' clause with note referring to note in clause 4.4 in TS36.101, editorial corrections and modifications to Forward and Scope clauses	12.1.0	12.2.0
12-2013	RP-62	RP-131948	204	Introduction of CA band combination B5 + B7 to TS 36.307 R12	12.1.0	12.2.0
12-2013	RP-62	RP-131952	207	Introduction of CA band combination B7 + B28 to TS 36.307	12.1.0	12.2.0
12-2013	RP-62	RP-131967	211	Correction to release independent specification	12.1.0	12.2.0
12-2013	RP-62	RP-131925	216	UE performance requirements in release independent specification for CA	12.1.0	12.2.0
12-2013	RP-62	RP-131963	219	Introduction of CA_7A-7A to TS 36.307 Rel-12	12.1.0	12.2.0
03-2014	RP-63	RP-140371	235	Release independence of Band 14 HPUE	12.2.0	12.3.0
03-2014	RP-63	RP-140386	227	Introduction of CA band combination Band 3 and Band 27 to TS 36.307	12.2.0	12.3.0
03-2014	RP-63	RP-140389	245r1	Correction to release independent specification	12.2.0	12.3.0
03-2014	RP-63	RP-140388	210r1	Introduction of CA_39C to TS 36.307	12.2.0	12.3.0
03-2014	RP-63	RP-140387	197r1	Introduction of CA_39A-41A to TS 36.307	12.2.0	12.3.0
06-2014	RP-64	RP-140911	259	Introduction of CA band combination Band 1 and Band 5 to TS 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140918	300	Correction of Common RRM requirements for CA in release independent specification (Rel-12)	12.3.0	12.4.0
06-2014	RP-64	RP-140926	280r1	Introduction of Band 20+32 CA	12.3.0	12.4.0
06-2014	RP-64	RP-140931	265	Introduction of CA 1+11 to 36.307 (Rel-12)	12.3.0	12.4.0
06-2014	RP-64	RP-140933	275	Introduction of CA band combination Band 4 and Band 27 to TS 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140938	291	Introduction of CA_2A-2A to TS 36.307 Rel-12	12.3.0	12.4.0
06-2014	RP-64	RP-140940	319	Introduction of LTE_CA_NC_B42 into 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140942	253	Introduction of CA band combination Band 3 and Band 27 to TS 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140942	340	Introduction of CA band combination Band 1 and Band 20 to TS 36.307	12.3.0	12.4.0
06-2014	RP-64	RP-140943	347	Introduction of CA band combination CA_41D into TS 36.307 (Rel-12)	12.3.0	12.4.0
09-2014	RP-65	RP-141110	0388r1	[Rel-12] Introduction of inter-band CA_18-28 into TS36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141200	0366r1	Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-12)	12.4.0	12.5.0
09-2014	RP-65	RP-141205	0363r1	Introduction of CA_B1_B3 into TS 36.307 (Rel-12)	12.4.0	12.5.0
09-2014	RP-65	RP-141332	0429r1	Introduction of CA_1A-7A into 36.307 (Rel-12)	12.4.0	12.5.0
09-2014	RP-65	RP-141340	0376r1	Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-12)	12.4.0	12.5.0
09-2014	RP-65	RP-141467	0432	Introduction of 3 DL CA for Band 1+7+20	12.4.0	12.5.0
09-2014	RP-65	RP-141527	415r1	CR for 36.307 on CA UE performance requirement in Rel-12	12.4.0	12.5.0
09-2014	RP-65	RP-141551	360	Introduction of CA 8+11 to 36.307 (Rel-12)	12.4.0	12.5.0
09-2014	RP-65	RP-141552	379	Introduction of CA_41A-42A to TS 36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141553	381	Introduction of a new bandwidth combination set for CA_25A-25A into 36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141554	418r1	Introduction of requirements for 2DL inter-band carrier aggregation (FDD) and 2DL fallback	12.4.0	12.5.0
09-2014	RP-65	RP-141554	421	Introduction of requirements for 3DL inter-band carrier aggregation including Band 30	12.4.0	12.5.0
09-2014	RP-65	RP-141555	384	Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.12)	12.4.0	12.5.0
09-2014	RP-65	RP-141556	357r1	Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3	12.4.0	12.5.0

				and Band 8 to TS 36.307		
09-2014	RP-65	RP-141558	402	Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141560	352	Introduction of new CA_40C bandwidth combination set into 36.307	12.4.0	12.5.0
09-2014	RP-65	RP-141561	354	CR to 36.307 Rel-12: Introduction of CA_41C-41A and CA_41A-41C	12.4.0	12.5.0
12-2014	RP-66	RP-142142	440	UE RF requirements in the release independent spec	12.5.0	12.6.0
12-2014	RP-66	RP-142188	444	Revision of common RRM requirements for release independent specification	12.5.0	12.6.0
12-2014	RP-66	RP-142182	448	[Rel-12] Introduction of inter-band CA_1-28 into TS36.307	12.5.0	12.6.0
12-2014	RP-66	RP-142189	455	CR for TR 36.307: LTE_CA_B5_B13	12.5.0	12.6.0
12-2014	RP-66	RP-142190	458r2	Introduction of additional band combinations for 3DL inter-band CA	12.5.0	12.6.0
03-2015	RP-67	RP-150387	463	R4-73AH-0113: Correction of UE RF requirements for dual uplink to TS 36.307 Rel-12	12.6.0	12.7.0
03-2015	RP-67	RP-150392	468	CR for 36.307 on CA UE performance requirement in Rel-12	12.6.0	12.7.0
03-2015	RP-67	RP-150387	469	Further revision of RSRP requirement for 36.307 release 12	12.6.0	12.7.0
06-2015	RP-68	RP-151026	0471r3	Introduction of CA_42D to TS 36.307(Rel-12)	12.7.0	12.8.0
06-2015	RP-68	RP-151067	0510r1	Introduction of CA_3A-40A to TS 36.307 R12	12.7.0	12.8.0
06-2015	RP-68	RP-151069	0512r1	Introduction of CA_3A-40C to TS 36.307 R12	12.7.0	12.8.0
06-2015	RP-68	RP-150958	460r1	Introduction of dual uplink CA into 36.307	12.7.0	12.8.0
06-2015	RP-68	RP-150958	487	CR for CA UE performance tests in 36.307 in Rel-12	12.7.0	12.8.0
06-2015	RP-68	RP-150968	498r2	Release independence CR for 2DL inter-band CA Rel-12	12.7.0	12.8.0
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06-2015	RP-68	RP-150974	505r1	Release independence CR for 4DL inter-band CA Rel-12	12.7.0	12.8.0
06-2015	RP-68	RP-150975	508	Introduction of non-contiguous Carrier Aggregation (CA) in Band 42 for 3DL	12.7.0	12.8.0
09-2015	RP-69	RP-151505	516	Additional bandwidth combination set for LTE Advanced intra-band non-contiguous Carrier Aggregation in Band 4	12.8.0	12.9.0
09-2015	RP-69	RP-151501	519r1	Introduction of finished 4DL inter-band CAs to TS 36.307	12.8.0	12.9.0
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09-2015	RP-69	RP-151503	525	[Rel-12] Introduction of dual uplink CA into 36.307	12.8.0	12.9.0
09-2015	RP-69	RP-151498	533r1	Rel-13 2DL combinations	12.8.0	12.9.0
09-2015	RP-69	RP-151499	537	Rel-13 3DL combinations	12.8.0	12.9.0
09-2015	RP-69	RP-151504	541	Introduction of 3DL/2UL inter-band CA combinations without self-interference issues	12.8.0	12.9.0
09-2015	RP-69	RP-151202	544	Introduction of CA_7A-40A and CA_7A-40C to TS 36.307 R12	12.8.0	12.9.0
12-2015	RP-70	RP-152158	0544aR2	Release independent requirements for CA_42E (Rel-12)	12.9.0	12.10.0
12-2015	RP-70	RP-152160	0548a	Introduction of 4DL NC CA in band42 in 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152133	0556	[Rel-12] Introduction of dual uplink CA into 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152157	0560	Introducing B20 + B67 CA into TS 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152168	0563	Introduction of intra-band CA_8B to TS 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152164	0568	Introduction of 3DL/2UL inter-band CA combinations with self-interference issues	12.9.0	12.10.0
12-2015	RP-70	RP-152171	0579	Introduction of Band 65	12.9.0	12.10.0
12-2015	RP-70	RP-152133	0592	[Rel-12] Introduction of dual uplink CA into 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152164	0594	Introduction of 3DL/2UL Inter-band CA for CA_39A-41C and CA_39C-41A	12.9.0	12.10.0
12-2015	RP-70	RP-152166	0595	Introduction of 3DL/3UL Inter-band CA for CA_39A-41C and CA_39C-41A	12.9.0	12.10.0
12-2015	RP-70	RP-152163	0597	Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-12)	12.9.0	12.10.0
12-2015	RP-70	RP-152164	0600	Introduction of 3DL/2UL inter-band CA_3A-7A-28A in TS36.307 Rel-12	12.9.0	12.10.0
12-2015	RP-70	RP-152162	0603	Introduction of finished 4DL inter-band CAs to TS 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152170	0606	Introduction of CA_7A-7A BCS1 to TS 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152173	0611	Introduction of 1447-1467MHz Band into 36.307	12.9.0	12.10.0
12-2015	RP-70	RP-152156	0615	Rel-13 2DL combinations	12.9.0	12.10.0
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12-2015	RP-70	RP-152159	0631	Introduction of intra-band non-contiguous CA in Band 41 for 4DL	12.9.0	12.10.0
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12-2015	RP-70	RP-152169	0639	Introduction of intra-band non-contiguous CA in Band 5	12.9.0	12.10.0

History

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