

ETSI TS 136 307 V10.18.0 (2016-04)



**LTE;
Evolved Universal Terrestrial Radio Access (E-UTRA);
Requirements on User Equipments (UEs)
supporting a release-independent frequency band
(3GPP TS 36.307 version 10.18.0 Release 10)**



Reference

RTS/TSGR-0436307vai0

Keywords

LTE

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from:
<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at
<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:
<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2016.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPP™ and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.
GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	20
1 Scope	21
2 References	21
3 Definitions and Abbreviations.....	21
3.1 Definitions	21
3.2 Abbreviations	22
3A General	22
4 Void.....	22
5 Void.....	22
6 Void.....	22
7 Void.....	22
8 Void.....	22
9 Void.....	23
10 Void.....	23
11 Void.....	23
12 Void.....	23
13 Void.....	23
14 Void.....	23
15 Band 26 Independent of Release	23
15.1 Band 26 UE	23
15.1.1 RF Requirements	23
15.1.2 RRM Requirements	23
15.1.3 Void	23
16 Band 27 Independent of Release	23
16.1 Band 27 UE	24
16.1.1 RF Requirements	24
16.1.2 RRM Requirements	24
16.1.3 Void	24
17 Band 28 Independent of Release	24
17.1 Band 28 UE	24
17.1.1 RF Requirements	24
17.1.2 RRM Requirements	24
17.1.3 Void	24
18 Band 44 Independent of Release	24
18.1 Band 44 UE	24
18.1.1 RF Requirements	24
18.1.2 RRM Requirements	25
18.1.3 Void	25
19 CA configuration CA_41C Independent of Release	25
19.1 Band 41 UE	25
19.1.1 RF Requirements	25

19.1.2	RRM Requirements	25
19.1.3	Demodulation performance and CSI reporting Requirements	25
20	CA configuration CA_1A-19A Independent of Release	25
20.1	CA_1A-19A UE	25
20.1.1	RF Requirements	25
20.1.2	RRM Requirements	26
20.1.3	Demodulation performance and CSI reporting Requirements	26
21	CA configuration CA_7C Independent of Release	26
21.1	CA_7C UE	26
21.1.1	RF Requirements	26
21.1.2	RRM Requirements	26
21.1.3	Demodulation performance and CSI reporting Requirements	26
22	CA configuration CA_38C Independent of Release	26
22.1	Band 38 UE	26
22.1.1	RF Requirements	26
22.1.2	RRM Requirements	27
22.1.3	Demodulation performance and CSI reporting Requirements	27
23	CA configuration CA_1A-18A Independent of Release	27
23.1	CA_1A-18A UE	27
23.1.1	RF Requirements	27
23.1.2	RRM Requirements	27
23.1.3	Demodulation performance and CSI reporting Requirements	27
24	CA configuration CA_1A-21A Independent of Release	27
24.1	CA_1A-21A UE	27
24.1.1	RF Requirements	28
24.1.2	RRM Requirements	28
24.1.3	Demodulation performance and CSI reporting Requirements	28
25	CA configuration CA_3A-5A Independent of Release	28
25.1	CA_3A-5A UE	28
25.1.1	RF Requirements	28
25.1.2	RRM Requirements	28
25.1.3	Demodulation performance and CSI reporting Requirements	28
26	CA configuration CA_3A-7A Independent of Release	28
26.1	CA_3A-7A UE	28
26.1.1	RF Requirements	29
26.1.2	RRM Requirements	29
26.1.3	Demodulation performance and CSI reporting Requirements	29
27	CA configuration CA_3A-20A Independent of Release	29
27.1	CA_3A-20A UE	29
27.1.1	RF Requirements	29
27.1.2	RRM Requirements	29
27.1.3	Demodulation performance and CSI reporting Requirements	29
28	CA configuration CA_7A-20A Independent of Release	29
28.1	CA_7A-20A UE	30
28.1.1	RF Requirements	30
28.1.2	RRM Requirements	30
28.1.3	Demodulation performance and CSI reporting Requirements	30
29	CA configuration CA_8A-20A Independent of Release	30
29.1	CA_8A-20A UE	30
29.1.1	RF Requirements	30
29.1.2	RRM Requirements	30
29.1.3	Demodulation performance and CSI reporting Requirements	30
30	CA configuration CA_2A-17A Independent of Release	31
30.1	CA_2A-17A UE	31
30.1.1	RF Requirements	31

30.1.2	RRM Requirements	31
30.1.3	Demodulation performance and CSI reporting Requirements	31
31	CA configuration CA_2A-29A Independent of Release	31
31.1	CA_2A-29A UE	31
31.1.1	RF Requirements	31
31.1.2	RRM Requirements	31
31.1.3	Demodulation performance and CSI reporting Requirements	32
32	CA configuration CA_4A-29A Independent of Release	32
32.1	CA_4A-29A UE	32
32.1.1	RF Requirements	32
32.1.2	RRM Requirements	32
32.1.3	Demodulation performance and CSI reporting Requirements	32
33	CA configuration CA_3A-8A Independent of Release	32
33.1	CA_3A-8A UE	32
33.1.1	RF Requirements	32
33.1.2	RRM Requirements	32
33.1.3	Demodulation performance and CSI reporting Requirements	33
34	CA configuration CA_4A-5A Independent of Release	33
34.1	CA_4A-5A UE	33
34.1.1	RF Requirements	33
34.1.2	RRM Requirements	33
34.1.3	Demodulation performance and CSI reporting Requirements	33
35	CA configuration CA_4A-12A Independent of Release	33
35.1	CA_4A-12A UE	33
35.1.1	RF Requirements	33
35.1.2	RRM Requirements	33
35.1.3	Demodulation performance and CSI reporting Requirements	34
36	CA configuration CA_4A-13A Independent of Release	34
36.1	CA_4A-13A UE	34
36.1.1	RF Requirements	34
36.1.2	RRM Requirements	34
36.1.3	Demodulation performance and CSI reporting Requirements	34
37	CA configuration CA_4A-17A Independent of Release	34
37.1	CA_4A-17A UE	34
37.1.1	RF Requirements	34
37.1.2	RRM Requirements	35
37.1.3	Demodulation performance and CSI reporting Requirements	35
38	CA configuration CA_5A-12A Independent of Release	35
38.1	CA_5A-12A UE	35
38.1.1	RF Requirements	35
38.1.2	RRM Requirements	35
38.1.3	Demodulation performance and CSI reporting Requirements	35
39	CA configuration CA_5A-17A Independent of Release	35
39.1	CA_5A-17A UE	35
39.1.1	RF Requirements	35
39.1.2	RRM Requirements	36
39.1.3	Demodulation performance and CSI reporting Requirements	36
40	CA configuration CA_4A-7A Independent of Release	36
40.1	CA_4A-7A UE	36
40.1.1	RF Requirements	36
40.1.2	RRM Requirements	36
40.1.3	Demodulation performance and CSI reporting Requirements	36
41	CA configuration CA_11A-18A Independent of Release	36
41.1	CA_11A-18A UE	36
41.1.1	RF Requirements	37

41.1.2	RRM Requirements	37
41.1.3	Demodulation performance and CSI reporting Requirements	37
42	Band 30 Independent of Release	37
42.1	Band 30 UE	37
42.1.1	RF Requirements	37
42.1.2	RRM Requirements	37
42.1.3	Void	37
43	Band 31 Independent of Release	37
43.1	Band 31 UE	37
43.1.1	RF Requirements	37
43.1.2	RRM Requirements	38
43.1.3	Demodulation performance and CSI reporting Requirements	38
44	CA configuration CA_1A-8A Independent of Release	38
44.1	CA_1A-8A UE	38
44.1.1	RF Requirements	38
44.1.2	RRM Requirements	38
44.1.3	Demodulation performance and CSI reporting Requirements	38
45	CA configuration CA_2A-13A Independent of Release	39
45.1	CA_2A-13A UE	39
45.1.1	RF Requirements	39
45.1.2	RRM Requirements	39
45.1.3	Demodulation performance and CSI reporting Requirements	39
46	CA configuration CA_3A-19A Independent of Release	39
46.1	CA_3A-19A UE	39
46.1.1	RF Requirements	39
46.1.2	RRM Requirements	39
46.1.3	Demodulation performance and CSI reporting Requirements	40
47	CA configuration CA_3A-26A Independent of Release	40
47.1	CA_3A-26A UE	40
47.1.1	RF Requirements	40
47.1.2	RRM Requirements	40
47.1.3	Demodulation performance and CSI reporting Requirements	40
48	CA configuration CA_3A-28A Independent of Release	40
48.1	CA_3A-28A UE	40
48.1.1	RF Requirements	40
48.1.2	RRM Requirements	41
48.1.3	Demodulation performance and CSI reporting Requirements	41
49	CA configuration CA_19A-21A Independent of Release	41
49.1	CA_19A-21A UE	41
49.1.1	RF Requirements	41
49.1.2	RRM Requirements	41
49.1.3	Demodulation performance and CSI reporting Requirements	41
50	CA configuration CA_23A-29A Independent of Release	41
50.1	CA_23A-29A UE	41
50.1.1	RF Requirements	41
50.1.2	RRM Requirements	42
50.1.3	Demodulation performance and CSI reporting Requirements	42
51	Void	42
52	CA configuration CA_3C Independent of Release	42
52.1	CA_3C UE	42
52.1.1	RF Requirements	42
52.1.2	RRM Requirements	42
52.1.3	Demodulation performance and CSI reporting Requirements	42
53	CA configuration CA_1A-26A Independent of Release	42

53.1	CA_1A-26A UE	42
53.1.1	RF Requirements	43
53.1.2	RRM Requirements	43
53.1.3	Demodulation performance and CSI reporting Requirements	43
54	CA configuration CA_2A-4A Independent of Release	43
54.1	CA_2A-4A UE	43
54.1.1	RF Requirements	43
54.1.2	RRM Requirements	43
54.1.3	Demodulation performance and CSI reporting Requirements	43
55	CA configuration CA_2A-5A Independent of Release	43
55.1	CA_2A-5A UE	43
55.1.1	RF Requirements	44
55.1.2	RRM Requirements	44
55.1.3	Demodulation performance and CSI reporting Requirements	44
56	CA configuration CA_23B Independent of Release	44
56.1	CA_23B UE	44
56.1.1	RF Requirements	44
56.1.2	RRM Requirements	44
56.1.3	Demodulation performance and CSI reporting Requirements	44
57	A configuration CA_27B Independent of Release	44
57.1	CA_27B UE	44
57.1.1	RF Requirements	45
57.1.2	RRM Requirements	45
57.1.3	Demodulation performance and CSI reporting Requirements	45
58	CA configuration CA_2A-12A Independent of Release	45
58.1	CA_2A-12A UE	45
58.1.1	RF Requirements	45
58.1.2	RRM Requirements	45
58.1.3	Demodulation performance and CSI reporting Requirements	45
59	CA configuration CA_5A-7A Independent of Release	45
59.1	CA_5A-7A UE	46
59.1.1	RF Requirements	46
59.1.2	RRM Requirements	46
59.1.3	Demodulation performance and CSI reporting Requirements	46
60	CA configuration CA_5A-25A Independent of Release	46
60.1	CA_5A-25A UE	46
60.1.1	RF Requirements	46
60.1.2	RRM Requirements	46
60.1.3	Demodulation performance and CSI reporting Requirements	46
61	CA configuration CA_7A-28A Independent of Release	47
61.1	CA_7A-28A UE	47
61.1.1	RF Requirements	47
61.1.2	RRM Requirements	47
61.1.3	Demodulation performance and CSI reporting Requirements	47
62	CA configuration CA_12A-25A Independent of Release	47
62.1	CA_12A-25A UE	47
62.1.1	RF Requirements	47
62.1.2	RRM Requirements	47
62.1.3	Demodulation performance and CSI reporting Requirements	48
63	Void	48
64	Void	48
65	Void	48
66	CA configuration CA_3A-27A Independent of Release	48
66.1	CA_3A-27A UE	48

66.1.1	RF Requirements	48
66.1.2	RRM Requirements	48
66.1.3	Demodulation performance and CSI reporting Requirements	48
67	CA configuration CA_39C Independent of Release	48
67.1	CA_39C UE	48
67.1.1	RF Requirements	49
67.1.2	RRM Requirements	49
67.1.3	Demodulation performance and CSI reporting Requirements	49
68	CA configuration CA_39A-41A Independent of Release	49
68.1	CA_39A-41A UE	49
68.1.1	RF Requirements	49
68.1.2	RRM Requirements	49
68.1.3	Demodulation performance and CSI reporting Requirements	49
69	Band 14 Class 1 HPUE Independent of Release	49
69.1	Band 14 HPUE	49
69.1.1	RF Requirements	50
70	CA configuration CA_1A-5A Independent of Release	50
70.1	CA_1A-5A UE	50
70.1.1	RF Requirements	50
70.1.2	RRM Requirements	50
70.1.3	Demodulation performance and CSI reporting Requirements	50
71	CA configuration CA_1A-11A Independent of Release	50
71.1	CA_1A-11A UE	50
71.1.1	RF Requirements	50
71.1.2	RRM Requirements	50
71.1.3	Demodulation performance and CSI reporting Requirements	51
72	CA configuration CA_1A-20A Independent of Release	51
72.1	CA_1A-20A UE	51
72.1.1	RF Requirements	51
72.1.2	RRM Requirements	51
72.1.3	Demodulation performance and CSI reporting Requirements	51
73	CA configuration CA_4A-27A Independent of Release	51
73.1	CA_4A-27A UE	51
73.1.1	RF Requirements	51
73.1.2	RRM Requirements	51
73.1.3	Demodulation performance and CSI reporting Requirements	52
74	CA configuration CA_20A-32A Independent of Release	52
74.1	CA_20A-32A UE	52
74.1.1	RF Requirements	52
74.1.2	RRM Requirements	52
74.1.3	Demodulation performance and CSI reporting Requirements	52
75	CA configuration CA_41D Independent of Release	52
75.1	CA_41D UE	52
75.1.1	RF Requirements	52
75.1.2	RRM Requirements	52
75.1.3	Demodulation performance and CSI reporting Requirements	52
76	CA configuration CA_42C Independent of Release	53
76.1	CA_42C UE	53
76.1.1	RF Requirements	53
76.1.2	RRM Requirements	53
76.1.3	Demodulation performance and CSI reporting Requirements	53
77	Void.....	53
78	Void.....	53
79	CA configuration CA_40C Independent of Release	53

79.1	CA_40C UE	53
79.1.1	RF Requirements	53
79.1.2	RRM Requirements	53
79.1.3	Demodulation performance and CSI reporting Requirements	54
80	CA configuration CA_8A-11A Independent of Release	54
80.1	CA_8A-11A UE	54
80.1.1	RF Requirements	54
80.1.2	RRM Requirements	54
80.1.3	Demodulation performance and CSI reporting Requirements	54
81	CA configuration CA_41A-42A Independent of Release	54
81.1	CA_41A-42A UE	54
81.1.1	RF Requirements	54
81.1.2	RRM Requirements	54
81.1.3	Demodulation performance and CSI reporting Requirements	55
82	CA configuration CA_18A-28A Independent of Release	55
82.1	CA_18A-28A UE	55
82.1.1	RF Requirements	55
82.1.2	RRM Requirements	55
82.1.3	Demodulation performance and CSI reporting Requirements	55
83	CA configuration CA_1A-5A-7A Independent of Release	55
83.1	CA_1A-5A-7A UE	55
83.1.1	RF Requirements	55
83.1.2	RRM Requirements	55
83.1.3	Demodulation performance and CSI reporting Requirements	56
84	CA configuration CA_1A-3A-5A Independent of Release	56
84.1	CA_1A-3A-5A UE	56
84.1.1	RF Requirements	56
84.1.2	RRM Requirements	56
84.1.3	Demodulation performance and CSI reporting Requirements	56
85	CA configuration CA_1A-3A-8A Independent of Release	56
85.1	CA_1A-3A-8A UE	56
85.1.1	RF Requirements	56
85.1.2	RRM Requirements	56
85.1.3	Demodulation performance and CSI reporting Requirements	57
86	CA configuration CA_1A-3A-19A Independent of Release	57
86.1	CA_1A-3A-19A UE	57
86.1.1	RF Requirements	57
86.1.2	RRM Requirements	57
86.1.3	Demodulation performance and CSI reporting Requirements	57
87	CA configuration CA_1A-3A-20A Independent of Release	57
87.1	CA_1A-3A-20A UE	57
87.1.1	RF Requirements	57
87.1.2	RRM Requirements	57
87.1.3	Demodulation performance and CSI reporting Requirements	58
88	CA configuration CA_1A-3A Independent of Release	58
88.1	CA_1A-3A UE	58
88.1.1	RF Requirements	58
88.1.2	RRM Requirements	58
88.1.3	Demodulation performance and CSI reporting Requirements	58
89	CA configuration CA_1A-7A-20A Independent of Release	58
89.1	CA_1A-7A-20A UE	58
89.1.1	RF Requirements	58
89.1.2	RRM Requirements	58
89.1.3	Demodulation performance and CSI reporting Requirements	59
90	CA configuration CA_1A-7A Independent of Release	59

90.1	CA_1A-7A UE.....	59
90.1.1	RF Requirements	59
90.1.2	RRM Requirements	59
90.1.3	Demodulation performance and CSI reporting Requirements	59
91	CA configuration CA_1A-19A-21A Independent of Release.....	59
91.1	CA_1A-19A-21A UE.....	59
91.1.1	RF Requirements	59
91.1.2	RRM Requirements	59
91.1.3	Demodulation performance and CSI reporting Requirements	59
92	Void.....	60
93	CA configuration CA_2A-4A-5A Independent of Release.....	60
93.1	CA_2A-4A-5A UE.....	60
93.1.1	RF Requirements	60
93.1.2	RRM Requirements	60
93.1.3	Demodulation performance and CSI reporting Requirements	60
94	CA configuration CA_2A-4A-13A Independent of Release.....	60
94.1	CA_2A-4A-13A UE.....	60
94.1.1	RF Requirements	60
94.1.2	RRM Requirements	60
94.1.3	Demodulation performance and CSI reporting Requirements	60
95	CA configuration CA_2A-4A-12A Independent of Release.....	61
95.1	CA_2A-4A-12A UE.....	61
95.1.1	RF Requirements	61
95.1.2	RRM Requirements	61
95.1.3	Demodulation performance and CSI reporting Requirements	61
96	CA configuration CA_2A-12B Independent of Release	61
96.1	CA_2A-12B UE	61
96.1.1	RF Requirements	61
96.1.2	RRM Requirements	61
96.1.3	Demodulation performance and CSI reporting Requirements	61
97	CA configuration CA_3A-7C Independent of Release	62
97.1	CA_3A-7C UE	62
97.1.1	RF Requirements	62
97.1.2	RRM Requirements	62
97.1.3	Demodulation performance and CSI reporting Requirements	62
98	CA configuration CA_3A-7A-20A Independent of Release.....	62
98.1	CA_3A-7A-20A UE.....	62
98.1.1	RF Requirements	62
98.1.2	RRM Requirements	62
98.1.3	Demodulation performance and CSI reporting Requirements	62
99	Void.....	63
100	CA configuration CA_4A-12B Independent of Release	63
100.1	CA_4A-12B UE	63
100.1.1	RF Requirements	63
100.1.2	RRM Requirements	63
100.1.3	Demodulation performance and CSI reporting Requirements	63
101	CA configuration CA_12B Independent of Release	63
101.1	CA_12B UE	63
101.1.1	RF Requirements	63
101.1.2	RRM Requirements	63
101.1.3	Demodulation performance and CSI reporting Requirements	63
102	Void.....	64
102.1	Void.....	64
102.1.1	Void	64

102.1.2	Void	64
102.1.3	Void	64
103	Void.....	64
103.1	Void.....	64
103.1.1	Void	64
103.1.2	Void	64
103.1.3	Void	64
104	CA configuration CA_3C-7A Independent of Release	64
104.1	CA_3C-7A UE	64
104.1.1	RF Requirements	64
104.1.2	RRM Requirements	64
104.1.3	Demodulation performance and CSI reporting Requirements	64
105	CA configuration CA_2A-5A-12A Independent of Release.....	65
105.1	CA_2A-5A-12A UE.....	65
105.1.1	RF Requirements	65
105.1.2	RRM Requirements	65
105.1.3	Demodulation performance and CSI reporting Requirements	65
106	CA configuration CA_4A-5A-12A Independent of Release.....	65
106.1	CA_4A-5A-12A UE.....	65
106.1.1	RF Requirements	65
106.1.2	RRM Requirements	65
106.1.3	Demodulation performance and CSI reporting Requirements	65
107	CA configuration CA_2A-5A-30A Independent of Release.....	66
107.1	CA_2A-5A-30A UE.....	66
107.1.1	RF Requirements	66
107.1.2	RRM Requirements	66
107.1.3	Demodulation performance and CSI reporting Requirements	66
108	CA configuration CA_2A-12A-30A Independent of Release.....	66
108.1	CA_2A-12A-30A UE.....	66
108.1.1	RF Requirements	66
108.1.2	RRM Requirements	66
108.1.3	Demodulation performance and CSI reporting Requirements	66
109	CA configuration CA_2A-29A-30A Independent of Release.....	67
109.1	CA_2A-29A-30A UE.....	67
109.1.1	RF Requirements	67
109.1.2	RRM Requirements	67
109.1.3	Demodulation performance and CSI reporting Requirements	67
110	CA configuration CA_4A-5A-30A Independent of Release.....	67
110.1	CA_4A-5A-30A UE.....	67
110.1.1	RF Requirements	67
110.1.2	RRM Requirements	67
110.1.3	Demodulation performance and CSI reporting Requirements	67
111	CA configuration CA_4A-12A-30A Independent of Release.....	68
111.1	CA_4A-12A-30A UE.....	68
111.1.1	RF Requirements	68
111.1.2	RRM Requirements	68
111.1.3	Demodulation performance and CSI reporting Requirements	68
112	CA configuration CA_4A-29A-30A Independent of Release.....	68
112.1	CA_4A-29A-30A UE.....	68
112.1.1	RF Requirements	68
112.1.2	RRM Requirements	68
112.1.3	Demodulation performance and CSI reporting Requirements	68
113	CA configuration CA_2A-30A Independent of Release.....	69
113.1	CA_2A-30A UE.....	69
113.1.1	RF Requirements	69

113.1.2	RRM Requirements	69
113.1.3	Demodulation performance and CSI reporting Requirements	69
114	CA configuration CA_4A-30A Independent of Release	69
114.1	CA_4A-30A UE	69
114.1.1	RF Requirements	69
114.1.2	RRM Requirements	69
114.1.3	Demodulation performance and CSI reporting Requirements	69
115	CA configuration CA_5A-30A Independent of Release	70
115.1	CA_5A-30A UE	70
115.1.1	RF Requirements	70
115.1.2	RRM Requirements	70
115.1.3	Demodulation performance and CSI reporting Requirements	70
116	CA configuration CA_12A-30A Independent of Release	70
116.1	CA_12A-30A UE	70
116.1.1	RF Requirements	70
116.1.2	RRM Requirements	70
116.1.3	Demodulation performance and CSI reporting Requirements	70
117	CA configuration CA_29A-30A Independent of Release	71
117.1	CA_29A-30A UE	71
117.1.1	RF Requirements	71
117.1.2	RRM Requirements	71
117.1.3	Demodulation performance and CSI reporting Requirements	71
118	CA configuration CA_40D Independent of Release	71
118.1	CA_40D UE	71
118.1.1	RF Requirements	71
118.1.2	RRM Requirements	71
118.1.3	Demodulation performance and CSI reporting Requirements	71
119	Void.....	71
120	Void.....	72
121	Void.....	72
122	CA configuration CA_1A-28A Independent of Release	72
122.1	CA_1A-28A UE	72
122.1.1	RF Requirements	72
122.1.2	RRM Requirements	72
122.1.3	Demodulation performance and CSI reporting Requirements	72
123	CA configuration CA_5A-13A Independent of Release	72
123.1	CA_5A-13A UE	72
123.1.1	RF Requirements	72
123.1.2	RRM Requirements	72
123.1.3	Demodulation performance and CSI reporting Requirements	73
124	CA configuration CA_1A-3A-26A Independent of Release	73
124.1	CA_1A-3A-26A UE	73
124.1.1	RF Requirements	73
124.1.2	RRM Requirements	73
124.1.3	Demodulation performance and CSI reporting Requirements	73
125	CA configuration CA_2C Independent of Release	73
125.1	CA_2C UE	73
125.1.1	RF Requirements	73
125.1.2	RRM Requirements	73
125.1.3	Demodulation performance and CSI reporting Requirements	73
126	CA configuration CA_2C-29A Independent of Release	74
126.1	CA_2C-29A UE	74
126.1.1	RF Requirements	74
126.1.2	RRM Requirements	74

126.1.3	Demodulation performance and CSI reporting Requirements	74
127	CA configuration CA_2A-4A-29A Independent of Release	74
127.1	CA_2A-4A-29A UE	74
127.1.1	RF Requirements	74
127.1.2	RRM Requirements	74
127.1.3	Demodulation performance and CSI reporting Requirements	74
128	CA configuration CA_7A-8A Independent of Release	74
128.1	CA_7A-8A UE	74
128.1.1	RF Requirements	75
128.1.2	RRM Requirements	75
128.1.3	Demodulation performance and CSI reporting Requirements	75
129	CA configuration CA_7A-8A-20A Independent of Release	75
129.1	CA_7A-8A-20A UE	75
129.1.1	RF Requirements	75
129.1.2	RRM Requirements	75
129.1.3	Demodulation performance and CSI reporting Requirements	75
130	CA configuration CA_39C-41A Independent of Release	75
130.1	CA_39C-41A UE	75
130.1.1	RF Requirements	75
130.1.2	RRM Requirements	75
130.1.3	Demodulation performance and CSI reporting Requirements	76
131	CA configuration CA_39A-41C Independent of Release	76
131.1	CA_39A-41C UE	76
131.1.1	RF Requirements	76
131.1.2	RRM Requirements	76
131.1.3	Demodulation performance and CSI reporting Requirements	76
132	CA configuration CA_7A-12A Independent of Release	76
132.1	CA_7A-12A UE	76
132.1.1	RF Requirements	76
132.1.2	RRM Requirements	76
132.1.3	Demodulation performance and CSI reporting Requirements	76
133	CA configuration CA_4A-7A-12A Independent of Release	77
133.1	CA_4A-7A-12A UE	77
133.1.1	RF Requirements	77
133.1.2	RRM Requirements	77
133.1.3	Demodulation performance and CSI reporting Requirements	77
134	CA configuration CA_2A-5A-13A Independent of Release	77
134.1	CA_2A-5A-13A UE	77
134.1.1	RF Requirements	77
134.1.2	RRM Requirements	77
134.1.3	Demodulation performance and CSI reporting Requirements	77
135	CA configuration CA_4A-5A-13A Independent of Release	77
135.1	CA_4A-5A-13A UE	78
135.1.1	RF Requirements	78
135.1.2	RRM Requirements	78
135.1.3	Demodulation performance and CSI reporting Requirements	78
136	CA configuration CA_1A-18A-28A Independent of Release	78
136.1	CA_1A-18A-28A UE	78
136.1.1	RF Requirements	78
136.1.2	RRM Requirements	78
136.1.3	Demodulation performance and CSI reporting Requirements	78
137	Void	78
138	Void	78
139	Void	78

140	CA configuration CA_1A-3A-28A Independent of Release	79
140.1	CA_1A-3A-28A UE	79
140.1.1	RF Requirements	79
140.1.2	RRM Requirements	79
140.1.3	Demodulation performance and CSI reporting Requirements	79
141	CA configuration CA_1A-7A-28A Independent of Release	79
141.1	CA_1A-7A-28A UE	79
141.1.1	RF Requirements	79
141.1.2	RRM Requirements	79
141.1.3	Demodulation performance and CSI reporting Requirements	79
142	CA configuration CA_2A_5A_29A Independent of Release	79
142.1	CA_2A-5A-29A UE	80
142.1.1	RF Requirements	80
142.1.2	RRM Requirements	80
142.1.3	Demodulation performance and CSI reporting Requirements	80
143	CA configuration CA_3C_5A Independent of Release	80
143.1	CA_3C-5A UE	80
143.1.1	RF Requirements	80
143.1.2	RRM Requirements	80
143.1.3	Demodulation performance and CSI reporting Requirements	80
144	CA configuration CA_3A_7B Independent of Release	80
144.1	CA_3A-7B UE	80
144.1.1	RF Requirements	80
144.1.2	RRM Requirements	81
144.1.3	Demodulation performance and CSI reporting Requirements	81
145	CA configuration CA_3A_7A_8A Independent of Release	81
145.1	CA_3A-7A-8A UE	81
145.1.1	RF Requirements	81
145.1.2	RRM Requirements	81
145.1.3	Demodulation performance and CSI reporting Requirements	81
146	CA configuration CA_3A_7A_28A Independent of Release	81
146.1	CA_3A-7A-28A UE	81
146.1.1	RF Requirements	81
146.1.2	RRM Requirements	81
146.1.3	Demodulation performance and CSI reporting Requirements	82
147	CA configuration CA_5A-29A Independent of Release	82
147.1	CA_5A-29A UE	82
147.1.1	RF Requirements	82
147.1.2	RRM Requirements	82
147.1.3	Demodulation performance and CSI reporting Requirements	82
148	CA configuration CA_7B Independent of Release	82
148.1	CA_7B UE	82
148.1.1	RF Requirements	82
148.1.2	RRM Requirements	82
148.1.3	Demodulation performance and CSI reporting Requirements	82
149	CA configuration CA_7B_28A Independent of Release	82
149.1	CA_7B-28A UE	83
149.1.1	RF Requirements	83
149.1.2	RRM Requirements	83
149.1.3	Demodulation performance and CSI reporting Requirements	83
150	CA configuration CA_7C_28A Independent of Release	83
150.1	CA_7C-28A UE	83
150.1.1	RF Requirements	83
150.1.2	RRM Requirements	83
150.1.3	Demodulation performance and CSI reporting Requirements	83

151	Void.....	84
151.1	Void.....	84
151.1.1	Void	84
151.1.2	Void	84
151.1.3	Void	84
152	CA configuration CA_38A-40A Independent of Release.....	84
152.1	CA_38A-40A UE.....	84
152.1.1	RF Requirements	84
152.1.2	RRM Requirements	84
152.1.3	Demodulation performance and CSI reporting Requirements	84
153	CA configuration CA_38A-40C Independent of Release.....	84
153.1	CA_38A-40C UE.....	84
153.1.1	RF Requirements	84
153.1.2	RRM Requirements	84
153.1.3	Demodulation performance and CSI reporting Requirements	85
154	Void.....	85
154.1	Void.....	85
154.1.1	Void	85
154.1.2	Void	85
154.1.3	Void	85
155	CA configuration CA_41A_42C Independent of Release	85
155.1	CA_41A-42C UE	85
155.1.1	RF Requirements	85
155.1.2	RRM Requirements	85
155.1.3	Demodulation performance and CSI reporting Requirements	85
156	CA configuration CA_2A-28A Independent of Release.....	85
156.1	CA_2A-28A UE.....	85
156.1.1	RF Requirements	85
156.1.2	RRM Requirements	86
156.1.3	Demodulation performance and CSI reporting Requirements	86
157	CA configuration CA_3A-31A Independent of Release.....	86
157.1	CA_3A-31A UE.....	86
157.1.1	RF Requirements	86
157.1.2	RRM Requirements	86
157.1.3	Demodulation performance and CSI reporting Requirements	86
158	CA configuration CA_4A-28A Independent of Release.....	86
158.1	CA_4A-28A UE.....	86
158.1.1	RF Requirements	86
158.1.2	RRM Requirements	86
158.1.3	Demodulation performance and CSI reporting Requirements	87
159	CA configuration CA_7A-22A Independent of Release.....	87
159.1	CA_7A-22A UE.....	87
159.1.1	RF Requirements	87
159.1.2	RRM Requirements	87
159.1.3	Demodulation performance and CSI reporting Requirements	87
160	CA configuration CA_20A-31A Independent of Release.....	87
160.1	CA_20A-31A UE.....	87
160.1.1	RF Requirements	87
160.1.2	RRM Requirements	87
160.1.3	Demodulation performance and CSI reporting Requirements	87
161	CA configuration CA_25A-26A Independent of Release.....	88
161.1	CA_25A-26A UE.....	88
161.1.1	RF Requirements	88
161.1.2	RRM Requirements	88
161.1.3	Demodulation performance and CSI reporting Requirements	88

162	CA configuration CA_42D Independent of Release	88
162.1	CA_42D UE	88
162.1.1	RF Requirements	88
162.1.2	RRM Requirements	88
162.1.3	Demodulation performance and CSI reporting Requirements	88
163	Void.....	88
164	Void.....	89
165	CA configuration CA_2C-5A Independent of Release	89
165.1	CA_2C-5A UE	89
165.1.1	RF Requirements	89
165.1.2	RRM Requirements	89
165.1.3	Demodulation performance and CSI reporting Requirements	89
166	Void.....	89
167	CA configuration CA_2C-12A Independent of Release	89
167.1	CA_2C-12A UE	89
167.1.1	RF Requirements	89
167.1.2	RRM Requirements	89
167.1.3	Demodulation performance and CSI reporting Requirements	89
168	CA configuration CA_2C-30A Independent of Release	90
168.1	CA_2C-30A UE	90
168.1.1	RF Requirements	90
168.1.2	RRM Requirements	90
168.1.3	Demodulation performance and CSI reporting Requirements	90
169	Void.....	90
170	Void.....	90
171	Void.....	90
172	Void.....	90
173	Void.....	90
174	CA configuration CA_2A-4A-30A Independent of Release.....	90
174.1	CA_2A-4A-30A UE.....	90
174.1.1	RF Requirements	91
174.1.2	RRM Requirements	91
174.1.3	Demodulation performance and CSI reporting Requirements	91
175 to 194	Void.....	91
195	CA configuration 4A-5A-29A Independent of Release	91
195.1	4A-5A-29A UE	91
195.1.1	RF Requirements	91
195.1.2	RRM Requirements	91
195.1.3	Demodulation performance and CSI reporting Requirements	91
195 to 204	Void.....	91
205	CA configuration CA_19A-28A Independent of Release.....	91
205.1	CA_19A-28A UE.....	92
205.1.1	RF Requirements	92
205.1.2	RRM Requirements	92
205.1.3	Demodulation performance and CSI reporting Requirements	92
206	CA configuration CA_1A-19A-28A Independent of Release.....	92
206.1	CA_1A-19A-28A UE.....	92
206.1.1	RF Requirements	92
206.1.2	RRM Requirements	92
206.1.3	Demodulation performance and CSI reporting Requirements	92

207	CA configuration CA_1A-8A-11A Independent of Release	92
207.1	CA_1A-8A-11A UE	92
207.1.1	RF Requirements	92
207.1.2	RRM Requirements	93
207.1.3	Demodulation performance and CSI reporting Requirements	93
208	CA configuration CA_1A-3C Independent of Release	93
208.1	CA_1A-3C UE	93
208.1.1	RF Requirements	93
208.1.2	RRM Requirements	93
208.1.3	Demodulation performance and CSI reporting Requirements	93
209 – 213	Void	93
214	Band 45 Independent of Release	93
214.1	Band 45 UE	93
214.1.1	RF Requirements	93
214.1.2	RRM Requirements	93
215	Band 65 Independent of Release	94
215.1	Band 65 UE	94
215.1.1	RF Requirements	94
215.1.2	RRM Requirements	94
216	Band 66 Independent of Release	94
216.1	Band 66 UE	94
216.1.1	RF Requirements	94
216.1.2	RRM Requirements	94
217	CA configuration CA_66B Independent of Release	94
217.1	CA_66B UE	94
217.1.1	RF Requirements	94
217.1.2	RRM Requirements	94
217.1.3	Demodulation performance and CSI reporting Requirements	94
218	CA configuration CA_66C Independent of Release	95
218.1	CA_66C UE	95
218.1.1	RF Requirements	95
218.1.2	RRM Requirements	95
218.1.3	Demodulation performance and CSI reporting Requirements	95
219	Void	95
220	CA configuration CA_5B Independent of Release	95
220.1.1	RF Requirements	95
220.1.2	RRM Requirements	95
220.1.3	Demodulation performance and CSI reporting Requirements	95
221	CA configuration CA_8B Independent of Release	95
221.1	CA_8B UE	95
221.1.1	RF Requirements	95
221.1.2	RRM Requirements	96
221.1.3	Demodulation performance and CSI reporting Requirements	96
222	CA configuration CA_20A-67A Independent of Release	96
222.1	CA_20A-67A UE	96
222.1.1	RF Requirements	96
222.1.2	RRM Requirements	96
222.1.3	Demodulation performance and CSI reporting Requirements	96
223	CA configuration CA_1A-3A-7A Independent of Release	96
223.1	CA_1A-3A-7A UE	96
223.1.1	RF Requirements	96
223.1.2	RRM Requirements	96
223.1.3	Demodulation performance and CSI reporting Requirements	97

224	CA configuration CA_1A-11A-18A Independent of Release.....	97
224.1	CA_1A-11A-18A UE.....	97
224.1.1	RF Requirements	97
224.1.2	RRM Requirements	97
224.1.3	Demodulation performance and CSI reporting Requirements	97
225	Void.....	97
226	Void.....	97
227	CA configuration CA_5A-12B Independent of Release	97
227.1	CA_5A-12B UE	97
227.1.1	RF Requirements	97
227.1.2	RRM Requirements	98
227.1.3	Demodulation performance and CSI reporting Requirements	98
228 to 230	Void	98
231	CA configuration 41C-42A Independent of Release.....	98
231.1	41C-42A UE.....	98
231.1.1	RF Requirements	98
231.1.2	RRM Requirements	98
231.1.3	Demodulation performance and CSI reporting Requirements	98
232 to 237	Void	98
238	CA configuration CA_1A-7A-8A Independent of Release.....	98
238.1	CA_1A-7A-8A UE.....	98
238.1.1	RF Requirements	98
238.1.2	RRM Requirements	99
238.1.3	Demodulation performance and CSI reporting Requirements	99
239 – 271	Void	99
272	Band 68 Independent of Release	99
272.1	Band 68 UE.....	99
272.1.1	RF Requirements	99
272.1.2	RRM Requirements	99
273 – 274	Void	99
275	CA configuration CA_2A-4A-7A Independent of Release.....	99
275.1	CA_2A-4A-7A UE.....	99
275.1.1	RF Requirements	99
275.1.2	RRM Requirements	99
275.1.3	Demodulation performance and CSI reporting Requirements	100
276	CA configuration CA_2A-7A-12A Independent of Release.....	100
276.1	CA_2A-7A-12A UE.....	100
276.1.1	RF Requirements	100
276.1.2	RRM Requirements	100
276.1.3	Demodulation performance and CSI reporting Requirements	100
277	CA configuration CA_2A-7A Independent of Release.....	100
277.1	CA_2A-7A UE.....	100
277.1.1	RF Requirements	100
277.1.2	RRM Requirements	100
277.1.3	Demodulation performance and CSI reporting Requirements	100
278 – 285	Void	100
286	CA configuration CA_3C-28A Independent of Release	101
286.1	CA_3C-28A UE	101
286.1.1	RF Requirements	101
286.1.2	RRM Requirements	101
286.1.3	Demodulation performance and CSI reporting Requirements	101
287 – 291	Void	101

292	CA configuration CA_1A-7C Independent of Release	101
292.1	CA_1A-7C UE	101
292.1.1	RF Requirements	101
292.1.2	RRM Requirements	101
292.1.3	Demodulation performance and CSI reporting Requirements	101
Annex A (informative): Frequency arrangement for overlapping operating bands		102
Annex B (normative): Common Requirements.....		103
B.1	Purpose of annex	103
B.2	Common RRM requirements	103
B.2.1	Common RRM requirements for a band independent of release.....	103
B.2.2	Common RRM requirements for an intra-band contiguous CA configuration	103
B.2.3	Common RRM requirements for an inter-band CA configuration.....	104
B.3	Common UE performance requirements.....	104
B.3.1	Void.....	104
B.3.2	Void.....	105
B.3.3	Void.....	105
B.4	Common UE RF requirements	105
B.4.1	Common UE RF requirements for a band independent of release	105
B.4.2	Common UE RF requirements for an intra-band contiguous CA configuration	105
B.4.3	Common UE RF requirements for an inter-band CA configuration.....	106
Annex C (informative): Change history		108
History		112

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

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:

CA	Carrier Aggregation
FDD	Frequency Division Duplex
RRC	Radio Resource Control
RRM	Radio Resource Management
TDD	Time Division Duplex
UE	User Equipment

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 [9].

4 Void

5 Void

6 Void

7 Void

8 Void

9 Void

10 Void

11 Void

12 Void

13 Void

14 Void

15 Band 26 Independent of Release

Band 26 is specified in Release 11 but is defined as a release-independent frequency band. This approach aligns the Band 26 with other frequency bands when considering features that have to be supported in different releases.

15.1 Band 26 UE

UEs that conform to Release 10 and support Band 26 shall support the following requirements in Release 11.

15.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 26 specified in [2] which are listed in Table B.4.1-1 of [6].

Table 15.1.1-1: Void

15.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 26 specified in [3] which are listed in Table B.2.1-1 of [6].

Table 15.1.2-1: Void

15.1.3 Void

16 Band 27 Independent of Release

Band 27 is specified in Release 11, but is defined as a release-independent frequency band. This approach aligns the Band 27 with other frequency bands when considering features that have to be supported in different releases.

16.1 Band 27 UE

UEs that conform to Release 10 and support Band 27 shall support the following requirements in Release 11.

16.1.1 RF Requirements

The UE shall comply with the Release 11 RF requirements for Band 27 specified [2] which are listed in Table B.4.1-1 of [6].

Table 16.1.1-1: RF Void

16.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 27 specified in [3] which are listed in Table B.2.1-1 of [6].

Table 16.1.2-1: Void

16.1.3 Void

17 Band 28 Independent of Release

Band 28 is specified in Release 11 but is defined as a release-independent frequency band. This approach aligns the Band 28 with other frequency bands when considering features that have to be supported in different releases.

17.1 Band 28 UE

UEs that conform to Release 10 and support Band 28 shall support the following requirements in Release 11.

17.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 28 specified [2] which are listed in Table B.4.1-1 of [6].

Table 17.1.1-1: Void

17.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 28 specified in [3] which are listed in Table B.2.1-1 of [6].

Table 17.1.2-1: Void

17.1.3 Void

18 Band 44 Independent of Release

Band 44 is specified in Release 11 but is defined as a release-independent frequency band. This approach aligns the Band 44 with other frequency bands when considering features that have to be supported in different releases.

18.1 Band 44 UE

UEs that conform to Release 10 and support Band 44 shall support the following requirements in Release 11.

18.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 44 specified [2] which are listed in Table B.4.1-1 of [6].

Table 18.1.1-1: Void

18.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 44 specified in [3] which are listed in Table B.2.1-1 of [6].

Table 18.1.2-1: Void

18.1.3 Void

19 CA configuration CA_41C Independent of Release

CA_41C is specified in Release 11 and Release 13 but is defined as a release-independent E-UTRA CA configuration.

19.1 Band 41 UE

UEs that conform to Release 10 and support CA_41C shall support the following requirements in Release 11 for both one uplink and simultaneous transmission on two uplinks.

19.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_41C specified in [11] which are listed in Table B.4.2-1 of [13].

Table 19.1.1-1: Void

19.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_41C specified in [12] which are listed in Table B.2.2-1 of [13].

Table 19.1.1-2: Void

19.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41C among the CA demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

20 CA configuration CA_1A-19A Independent of Release

CA configuration CA_1A-19A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

20.1 CA_1A-19A UE

UEs that conform to Release 10 and support CA_1A-19A shall support the following requirements in Release 11.

20.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 20.1.1-1: Void

20.1.2 RRM Requirements

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

Table 20.1.2-1: Void

20.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

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 10 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 [11] which are listed in Table B.4.2-1 of [13].

Table 21.1.1-1: Void

21.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_7C specified in [12] which are listed in Table B.2.2-1 of [13].

Table 21.1.1-2: Void

21.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7C among the CA demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

22 CA configuration CA_38C Independent of Release

CA_38C is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

22.1 Band 38 UE

UEs that conform to Release 10 and support CA_38C shall support the following requirements in Release 11 for both one uplink and simultaneous transmission on two uplinks.

22.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_38C specified in [2] which are listed in Table B.4.2-1 of [6].

Table 22.1.1-1: Void

22.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_38C specified in [3] which are listed in Table B.2.2-1 of [6].

Table 22.1.2-1: Void

22.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_38C among the CA demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

23 CA configuration CA_1A-18A Independent of Release

CA configuration CA_1A-18A is specified in Release 11 and 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

23.1 CA_1A-18A UE

UEs that conform to Release 10 and support CA_1A-18A shall support the following requirements in Release 12.

23.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 23.1.1-1: Void

23.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 23.1.2-1: Void

23.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

24 CA configuration CA_1A-21A Independent of Release

CA configuration CA_1A-21A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

24.1 CA_1A-21A UE

UEs that conform to Release 10 and support CA_1A-21A shall support the following requirements in Release 11.

24.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-21A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 24.1.1-1: Void

24.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-21A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 24.1.2-1: Void

24.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-21A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

25 CA configuration CA_3A-5A Independent of Release

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

25.1 CA_3A-5A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

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 [12] which are listed in Table B.2.4-1 of [13].

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 demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

26 CA configuration CA_3A-7A Independent of Release

CA configuration CA_3A-7A is specified in Release 11 and 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 10 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 [11] which are listed in Table B.4.3-1 of [13].

Table 26.1.1-1: Void

26.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A specified in [12] which are listed in Table B.2.4-1 of [13].

Table 26.1.2-1: Void

26.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

27 CA configuration CA_3A-20A Independent of Release

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

27.1 CA_3A-20A UE

UEs that conform to Release 10 and support CA_3A-20A shall support the following requirements in Release 11 and Release 12.

27.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-20A specified in 3GPP TS TS 36.101 [4] which are listed in Table B.4.3-1 of [7].

Table 27.1.1-1: Void

27.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-20A specified in [3] which are listed in Table B.2.4-1 of [7].

Table 27.1.2-1: Void

27.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-20A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

28 CA configuration CA_7A-20A Independent of Release

CA configuration CA_7A-20A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

28.1 CA_7A-20A UE

UEs that conform to Release 10 and support CA_7A-20A shall support the following requirements in Release 11.

28.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-20A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 28.1.1-1: Void

28.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-20A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 28.1.2-1: Void

28.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-20A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

29 CA configuration CA_8A-20A Independent of Release

CA configuration CA_8A-20A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

29.1 CA_8A-20A UE

UEs that conform to Release 10 and support CA_8A-20A shall support the following requirements in Release 11.

29.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8A-20A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 29.1.1-1: Void

29.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_8A-20A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 29.1.2-1: Void

29.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8A-20A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

30 CA configuration CA_2A-17A Independent of Release

CA configuration CA_2A-17A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

30.1 CA_2A-17A UE

UEs that conform to Release 10 and support CA_2A-17A shall support the following requirements in Release 11.

30.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-17A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 30.1.1-1: Void

30.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-17A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 30.1.2-1: Void

30.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-17A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

31 CA configuration CA_2A-29A Independent of Release

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

31.1 CA_2A-29A UE

UEs that conform to Release 10 and support CA_2A-29A shall support the following requirements in Release 12.

31.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-29A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 31.1.1-1: Void

31.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-29A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 31.1.2-1: Void

31.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-29A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

32 CA configuration CA_4A-29A Independent of Release

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

32.1 CA_4A-29A UE

UEs that conform to Release 10 and support CA_4A-29A shall support the following requirements in Release 12.

32.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-29A specified in [4] which are listed in Table B.4.4-1 of [7].

Table 32.1.1-1: Void

32.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-29A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 32.1.2-1: Void

32.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-29A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

33 CA configuration CA_3A-8A Independent of Release

CA configuration CA_3A-8A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

33.1 CA_3A-8A UE

UEs that conform to Release 10 and support CA_3A-8A shall support the following requirements in Release 11.

33.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-8A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 33.1.1-1: Void

33.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-8A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 33.1.2-1: Void

33.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-8A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

34 CA configuration CA_4A-5A Independent of Release

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

34.1 CA_4A-5A UE

UEs that conform to Release 10 and support CA_4A-5A shall support the following requirements in Release 12.

34.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 34.1.1-1: Void

34.1.2 RRM Requirements

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

Table 34.1.2-1: Void

34.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

35 CA configuration CA_4A-12A Independent of Release

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

35.1 CA_4A-12A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

Table 35.1.1-1: Void

35.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A specified in [12] which are listed in Table B.2.4-1 of [13].

Table 35.1.2-1: Void

35.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

36 CA configuration CA_4A-13A Independent of Release

CA configuration CA_4A-13A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

36.1 CA_4A-13A UE

UEs that conform to Release 10 and support CA_4A-13A shall support the following requirements in Release 11.

36.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-13A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 36.1.1-1: Void

36.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-13A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 36.1.2-1: Void

36.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-13A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

37 CA configuration CA_4A-17A Independent of Release

CA configuration CA_4A-17A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

37.1 CA_4A-17A UE

UEs that conform to Release 10 and support CA_4A-17A shall support the following requirements in Release 11.

37.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-17A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 37.1.1-1: Void

37.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-17A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 37.1.2-1: Void

37.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-17A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

38 CA configuration CA_5A-12A Independent of Release

CA configuration CA_5A-12A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

38.1 CA_5A-12A UE

UEs that conform to Release 10 and support CA_5A-12A shall support the following requirements in Release 11.

38.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-12A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 38.1.1-1: Void

38.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-12A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 38.1.2-1: Void

38.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-12A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

39 CA configuration CA_5A-17A Independent of Release

CA configuration CA_5A-17A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

39.1 CA_5A-17A UE

UEs that conform to Release 10 and support CA_5A-17A shall support the following requirements in Release 11.

39.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-17A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 39.1.1-1: Void

39.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-17A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 39.1.2-1: Void

39.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-17A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table Table B.3.2-1 of [6].

40 CA configuration CA_4A-7A Independent of Release

CA_4A-7A is specified in Release 11 and Release 13 but is defined as a release-independent E-UTRA CA configuration.

40.1 CA_4A-7A UE

UEs that conform to Release 10 and support CA_4A-7A shall support the following requirements in Release 13 for one uplink.

40.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-7A specified in [11] which are listed in Table B.4.3-1 of [13].

Table 40.1.1-1: Void

40.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-7A specified in [12] which are listed in Table B.2.4-1 of [13].

Table 40.1.2-1: Void

40.1.3 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 [11] and listed in Table B.3.2-1 of [13].

41 CA configuration CA_11A-18A Independent of Release

CA configuration CA_11A-18A is specified in Release 11 but is defined as a release-independent CA configuration for Rel-10 upwards.

41.1 CA_11A-18A UE

UEs that conform to Release 10 and support CA_11A-18A shall support the following requirements in Release 11.

41.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_11A-18A specified in [2] which are listed in Table B.4.3-1 of [6].

Table 41.1.1-1: Void

41.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_11A-18A specified in [3] which are listed in Table B.2.4-1 of [6].

Table 41.1.2-1: Void

41.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_11A-18A among the demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

42 Band 30 Independent of Release

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

42.1 Band 30 UE

UEs that conform to Release 10 and support Band 30 shall support the following requirements in Release 12.

42.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 30 specified in [4] which are listed in Table B.4.1-1 of [7].

Table 42.1.1-1: Void

42.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 30 specified in [5] which are listed in Table B.2.1-1 of [7].

Table 42.1.2-1: Void

42.1.3 Void

43 Band 31 Independent of Release

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

43.1 Band 31 UE

UEs that conform to Release 10 and support Band 31 shall support the following requirements in Release 12.

43.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 31 specified [4] which are listed in Table B.4.1-1 of [7].

Table 43.1.1-1: Void

43.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 31, for 5 MHz only, specified in [5] which are listed in Table B.2.1-1 of [7].

Table 43.1.2-1: Void

43.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the subset of demodulation performance and CSI reporting requirements specified in [4] which are listed in Table 43.1.3-2.

Table 43.1.3-1: Void**Table 43.1.3-2: Demodulation performance and CSI reporting requirements for Band 31 UE**

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

44 CA configuration CA_1A-8A Independent of Release

CA configuration CA_1A-8A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

44.1 CA_1A-8A UE

UEs that conform to Release 10 and support CA_1A-8A shall support the following requirements in Release 12.

44.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-8A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 44.1.1-1: Void

44.1.2 RRM Requirements

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

Table 44.1.2-1: Void

44.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

45 CA configuration CA_2A-13A Independent of Release

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

45.1 CA_2A-13A UE

UEs that conform to Release 10 and support CA_2A-13A shall support the following requirements in Release 12.

45.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-13A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 45.1.1-1: Void

45.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-13A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 45.1.2-1: Void

45.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-13A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

46 CA configuration CA_3A-19A Independent of Release

CA configuration CA_3A-19A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

46.1 CA_3A-19A UE

UEs that conform to Release 10 and support CA_3A-19A shall support the following requirements in Release 12.

46.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-19A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 46.1.1-1: Void

46.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-19A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 46.1.2-1: Void

46.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-19A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

47 CA configuration CA_3A-26A Independent of Release

CA configuration CA_3A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

47.1 CA_3A-26A UE

UEs that conform to Release 10 and support CA_3A-26A shall support the following requirements in Release 12.

47.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-26A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 47.1.1-1: Void

47.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-26A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 47.1.2-1: Void

47.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-26A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

48 CA configuration CA_3A-28A Independent of Release

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

48.1 CA_3A-28A UE

UEs that conform to Release 10 and support CA_3A-28A shall support the following requirements in Release 12.

48.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-28A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 48.1.1-1: Void

48.1.2 RRM Requirements

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

Table 48.1.2-1: Void

48.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-28A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

49 CA configuration CA_19A-21A Independent of Release

CA configuration CA_19A-21A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

49.1 CA_19A-21A UE

UEs that conform to Release 10 and support CA_19A-21A shall support the following requirements in Release 12.

49.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_19A-21A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 49.1.1-1: Void

49.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-21A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 49.1.2-1: Void

49.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-21A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

50 CA configuration CA_23A-29A Independent of Release

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

50.1 CA_23A-29A UE

UEs that conform to Release 10 and support CA_23A-29A shall support the following requirements in Release 12.

50.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23A-29A specified in [4] which are listed in Table B.4.4-1 of [7].

Table 50.1.1-1: Void

50.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23A-29A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 50.1.2-1: Void

50.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23A-29A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

51 Void

52 CA configuration CA_3C Independent of Release

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

52.1 CA_3C UE

UEs that conform to Release 10 and support CA_3C shall support the following requirements in Release 12.

52.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C specified in [4] which are listed in Table B.4.2-1 of [7].

Table 52.1.1-1: Void

52.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_3C specified in [5] which are listed in Table B.2.2-1 of [7].

Table 52.1.2-2: Void

52.1.3 Demodulation performance and CSI reporting Requirements

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

53 CA configuration CA_1A-26A Independent of Release

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

53.1 CA_1A-26A UE

UEs that conform to Release 10 and support CA_1A-26A shall support the following requirements in Release 12.

53.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-26A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 53.1.1-1: Void

53.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-26A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 53.1.2-1: Void

53.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-26A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

54 CA configuration CA_2A-4A Independent of Release

CA configuration CA_2A-4A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

54.1 CA_2A-4A UE

UEs that conform to Release 10 and support CA_2A-4A shall support the following requirements in Release 12.

54.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A specified in [2] which are listed in Table B.4.3-1 of [7].

Table 54.1.1-1: Void

54.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A specified in [3] which are listed in Table B.2.4-1 of [7].

Table 54.1.2-1: Void

54.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

55 CA configuration CA_2A-5A Independent of Release

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

55.1 CA_2A-5A UE

UEs that conform to Release 10 and support CA_2A-5A shall support the following requirements in Release 12.

55.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 55.1.1-1: Void

55.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 55.1.2-1: Void

55.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

56 CA configuration CA_23B Independent of Release

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

56.1 CA_23B UE

UEs that conform to Release 10 and support CA_23B shall support the following requirements in Release 12.

56.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_23B specified in [4] which are listed in Table B.4.2-1 of [7].

Table 56.1.1-1: Void

56.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_23B specified in [5] which are listed in Table B.2.2-1 of [7].

Table 56.1.2-1: Void

56.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_23B among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

57 A configuration CA_27B Independent of Release

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

57.1 CA_27B UE

UEs that conform to Release 10 and support CA_27B shall support the following requirements in Release 12.

57.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_27B specified in [4] which are listed in Table B.4.2-1 of [7].

Table 57.1.1-1: Void

57.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_27B specified in [5] which are listed in Table B.2.2-1 of [7].

Table 57.1.1-2: Void

57.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_27B among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

58 CA configuration CA_2A-12A Independent of Release

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

58.1 CA_2A-12A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

Table 58.1.1-1: Void

58.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-12A specified in [12] which are listed in Table B.2.4-1 of [13].

Table 58.1.2-1: Void

58.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

59 CA configuration CA_5A-7A Independent of Release

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

59.1 CA_5A-7A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

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 [12] which are listed in Table B.2.4-1 of [13].

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 demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

60 CA configuration CA_5A-25A Independent of Release

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

60.1 CA_5A-25A UE

UEs that conform to Release 10 and support CA_5A-25A shall support the following requirements in Release 12.

60.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-25A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 60.1.1-1: Void

60.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-25A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 60.1.2-1: Void

60.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-25A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

61 CA configuration CA_7A-28A Independent of Release

CA configuration CA_7A-28A 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 10 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 [11] which are listed in Table B.4.3-1 of [13].

Table 61.1.1-1: Void

61.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

61.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

62 CA configuration CA_12A-25A Independent of Release

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

62.1 CA_12A-25A UE

UEs that conform to Release 10 and support CA_12A-25A shall support the following requirements in Release 12.

62.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12A-25A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 62.1.1-1: Void

62.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_12A-25A specified in [5] which are listed in Table B.2.4-1 of [7].

Table 62.1.2-1: Void

62.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable CA_12A-25A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

63 Void

64 Void

65 Void

66 CA configuration CA_3A-27A Independent of Release

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

66.1 CA_3A-27A UE

UEs that conform to Release 10 and support CA_3A-27A shall support the following requirements in Release 12.

66.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3A-27A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 66.1.1-1: Void

66.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-27A specified in [5] which are listed in Table B.2.4-1 of [7].

66.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-27A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

67 CA configuration CA_39C Independent of Release

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

67.1 CA_39C UE

UEs that conform to Release 10 and support CA_39C shall support the following requirements in Release 12.

67.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C specified in [4] which are listed in Table B.4.2-1 of [7].

Table 67.1.1-1: Void

67.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_39C specified in [5] which are listed in Table B.2.2-1 of [7].

67.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

68 CA configuration CA_39A-41A Independent of Release

CA configuration CA_39A-41A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

68.1 CA_39A-41A UE

UEs that conform to Release 10 and support CA_39A-41A shall support the following requirements in Release 12.

68.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 68.1.1-1: Void

68.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41A specified in [5] which are listed in Table B.2.4-1 of [7].

68.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

69 Band 14 Class 1 HPUE Independent of Release

Band 14 class 1 high power UE is specified in Release 11 but is defined as a release -independent feature and frequency band.

69.1 Band 14 HPUE

UEs that conform to Release 10 and support Band 14 class 1 high power UE shall support the following requirements in Release 11 in addition to all other requirements for Band 14 class 3 UE specified in [9].

69.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 14 class 1 HPUE specified in [2] which are listed in Table B.4.1-1 of [7].

Table 69.1.1-1: Void

70 CA configuration CA_1A-5A Independent of Release

CA configuration CA_1A-5A with bandwidth combination set1 is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

70.1 CA_1A-5A UE

UEs that conform to Release 10 and support CA_1A-5A shall support the following requirements in Release 12.

70.1.1 RF Requirements

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

Table 70.1.1-1: Void

70.1.2 RRM Requirements

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

70.1.3 Demodulation performance and CSI reporting Requirements

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

71 CA configuration CA_1A-11A Independent of Release

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

71.1 CA_1A-11A UE

UEs that conform to Release 10 and support CA_1A-11A shall support the following requirements in Release 12.

71.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-11A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 71.1.1-1: Void

71.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-11A specified in [5] which are listed in Table B.2.4-1 of [7].

71.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-11A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

72 CA configuration CA_1A-20A Independent of Release

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

72.1 CA_1A-20A UE

UEs that conform to Release 10 and support CA_1A-20A shall support the following requirements in Release 12.

72.1.1 RF Requirements

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

Table 72.1.1-1: Void

72.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-20A specified in [5] which are listed in Table B.2.4-1 of [7].

72.1.3 Demodulation performance and CSI reporting Requirements

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

73 CA configuration CA_4A-27A Independent of Release

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

73.1 CA_4A-27A UE

UEs that conform to Release 10 and support CA_4A-27A shall support the following requirements in Release 12.

73.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-27A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 73.1.1-1: Void

73.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-27A specified in [5] which are listed in Table B.2.4-1 of [7].

73.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-27A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

74 CA configuration CA_20A-32A Independent of Release

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

74.1 CA_20A-32A UE

UEs that conform to Release 10 and support CA_20A-32A shall support the following requirements in Release 12.

74.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_20A-32A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 74.1.1-1: Void

74.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-32A specified in [5] which are listed in Table B.2.4-1 of [7].

74.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-32A among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

75 CA configuration CA_41D Independent of Release

CA configuration CA_41D is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

75.1 CA_41D UE

UEs that conform to Release 10 and support CA_41D shall support the following requirements in Release 12.

75.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41D specified in [4] which are listed in Table B.4.2-1 of [7].

Table 75.1.1-1: Void

75.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41D specified in [5] which are listed in Table B.2.2-1 of [7].

75.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41D among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

76 CA configuration CA_42C Independent of Release

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

76.1 CA_42C UE

UEs that conform to Release 10 and support CA_42C shall support the following requirements in Release 12.

76.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_42C specified in [4] which are listed in Table B.4.2-1 of [7].

Table 76.1.1-1: Void

76.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_42C specified in [5] which are listed in Table B.2.2-1 of [7].

76.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_42C among demodulation performance and CSI reporting requirements specified in [2] and listed in Table B.3.2-1 of [6].

77 Void

78 Void

79 CA configuration CA_40C Independent of Release

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

79.1 CA_40C UE

UEs that conform to Release 10 and support CA_40C shall support the following requirements in Release 12 for both one uplink and simultaneous transmission on two uplinks.

79.1.1 RF Requirements

The UE shall comply with the following RF requirements for CA_40C specified in [4] which are listed in Table B.4.2-1 of [7].

Table 79.1.1-1: Void

79.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_40C specified in [5] which are listed in Table B.2.2-1 of [7].

79.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

80 CA configuration CA_8A-11A Independent of Release

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

80.1 CA_8A-11A UE

UEs that conform to Release 10 and support CA_8A-11A shall support the following requirements in Release 12.

80.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_8A-11A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 80.1.1-1: Void

80.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_8A-11A specified in [5] which are listed in Table B.2.4-1 of [7].

80.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_8A-11A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

81 CA configuration CA_41A-42A Independent of Release

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

81.1 CA_41A-42A UE

UEs that conform to Release 10 and support CA_41A-42A shall support the following requirements in Release 12.

81.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_41A-42A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 81.1.1-1: Void

81.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41A-42A specified in [5] which are listed in Table B.2.4-1 of [7].

81.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41A-42A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

82 CA configuration CA_18A-28A Independent of Release

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

82.1 CA_18A-28A UE

UEs that conform to Release 10 and support CA_18A-28A shall support the following requirements in Release 12.

82.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_18A-28A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 82.1.1-1: Void

82.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_18A-28A specified in [5] which are listed in Table B.2.4-1 of [7].

82.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_18A-28A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_1A-5A-7A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

83.1 CA_1A-5A-7A UE

UEs that conform to Release 10 and support CA_1A-5A-7A shall support the following requirements in Release 12.

83.1.1 RF Requirements

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

Table 83.1.1-1: Void

83.1.2 RRM Requirements

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

83.1.3 Demodulation performance and CSI reporting Requirements

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

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

CA configuration CA_1A-3A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

84.1 CA_1A-3A-5A UE

UEs that conform to Release 10 and support CA_1A-3A-5A shall support the following requirements in Release 12.

84.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-5A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 84.1.1-1: Void

84.1.2 RRM Requirements

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

84.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-5A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_1A-3A-8A 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 [10].

85.1 CA_1A-3A-8A UE

UEs that conform to Release 10 and support CA_1A-3A-8A shall support the following requirements in Release 13.

85.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-8A specified in [11] which are listed in Table B.4.3-1 of [13].

Table 85.1.1-1: Void

85.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-8A specified in [12].

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 [11] and listed in Table B.3.2-1of [13].

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

CA configuration CA_1A-3A-19A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards.

86.1 CA_1A-3A-19A UE

UEs that conform to Release 10 and support CA_1A-3A-19A shall support the following requirements in Release 12.

86.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-19A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 86.1.1-1: Void

86.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-19A specified in [5] which are listed in Table B.2.4-1 of [7].

86.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-19A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

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

87.1 CA_1A-3A-20A UE

UEs that conform to Release 10 and support CA_1A-3A-20A shall support the following requirements in Release 12.

87.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-20A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 87.1.1-1: Void

87.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-20A specified in [5] which are listed in Table B.2.4-1 of [7].

87.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-20A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

88 CA configuration CA_1A-3A Independent of Release

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

88.1 CA_1A-3A UE

UEs that conform to Release 10 and support CA_1A-3A shall support the following requirements in Release 12.

88.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 88.1.1-1: Void

88.1.2 RRM Requirements

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

88.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

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

89.1 CA_1A-7A-20A UE

UEs that conform to Release 10 and support CA_1A-7A-20A shall support the following requirements in Release 12.

89.1.1 RF Requirements

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

Table 89.1.1-1: Void

89.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-20A specified in [5] which are listed in Table B.2.4-1 of [7].

89.1.3 Demodulation performance and CSI reporting Requirements

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

90 CA configuration CA_1A-7A Independent of Release

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

90.1 CA_1A-7A UE

UEs that conform to Release 10 and support CA_1A-7A shall support the following requirements in Release 12.

90.1.1 RF Requirements

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

Table 90.1.1-1: Void

90.1.2 RRM Requirements

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

90.1.3 Demodulation performance and CSI reporting Requirements

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

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

CA configuration CA_1A-19A-21A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

91.1 CA_1A-19A-21A UE

UEs that conform to Release 10 and support CA_1A-19A-21A shall support the following requirements in Release 12.

91.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-19A-21A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 91.1.1-1: Void

91.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-21A specified in [5].

91.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-21A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

92 Void

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

CA configuration CA_2A-4A-5A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

93.1 CA_2A-4A-5A UE

UEs that conform to Release 10 and support CA_2A-4A-5A shall support the following requirements in Release 12.

93.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-5A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 93.1.1-1: Void

93.1.2 RRM Requirements

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

93.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-5A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

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

CA configuration CA_2A-4A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

94.1 CA_2A-4A-13A UE

UEs that conform to Release 10 and support CA_2A-4A-13A shall support the following requirements in Release 12.

94.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-13A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 94.1.1-1: Void

94.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-13A specified in [5].

94.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-13A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

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

CA configuration CA_2A-4A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

95.1 CA_2A-4A-12A UE

UEs that conform to Release 10 and support CA_2A-4A-12A shall support the following requirements in Release 12.

95.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-12A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 95.1.1-1: Void

95.1.2 RRM Requirements

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

95.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-12A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

96 CA configuration CA_2A-12B Independent of Release

CA configuration CA_2A-12B is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

96.1 CA_2A-12B UE

UEs that conform to Release 10 and support CA_2A-12B shall support the following requirements in Release 12.

96.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12B specified in [4] which are listed in Table B.4.3-1 of [7].

Table 96.1.1-1: Void

96.1.2 RRM Requirements

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

96.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12B among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

97 CA configuration CA_3A-7C Independent of Release

CA configuration CA_3A-7C 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 [10].

97.1 CA_3A-7C UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

Table 97.1.1-1: Void

97.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7C specified in [12].

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 [11] and listed in Table B.3.2-1of [13].

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

CA configuration CA_3A-7A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

98.1 CA_3A-7A-20A UE

UEs that conform to Release 10 and support CA_3A-7A-20A shall support the following requirements in Release 12.

98.1.1 RF Requirements

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

Table 98.1.1-1: Void

98.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-20A specified in [5].

98.1.3 Demodulation performance and CSI reporting Requirements

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

99 Void

100 CA configuration CA_4A-12B Independent of Release

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

100.1 CA_4A-12B UE

UEs that conform to Release 10 and support CA_4A-12B shall support the following requirements in Release 12.

100.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12B specified in [4] which are listed in Table B.4.3-1 of [7].

Table 100.1.1-1: Void

100.1.2 RRM Requirements

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

100.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12B among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

101 CA configuration CA_12B Independent of Release

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

101.1 CA_12B UE

UEs that conform to Release 10 and support CA_12B shall support the following requirements in Release 12.

101.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12B specified in [4] which are listed in Table B.4.2-1 of [7].

Table 101.1.1-1: Void

101.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_12B specified in [5] which are listed in Table B.2.2-1 of [7].

101.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_12B among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

102 Void

102.1 Void

102.1.1 Void

Table 102.1.1-1: Void

102.1.2 Void

102.1.3 Void

103 Void

103.1 Void

103.1.1 Void

Table 103.1.1-1: Void

103.1.2 Void

103.1.3 Void

104 CA configuration CA_3C-7A Independent of Release

CA configuration CA_3C-7A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

104.1 CA_3C-7A UE

UEs that conform to Release 10 and support CA_3C-7A shall support the following requirements in Release 12.

104.1.1 RF Requirements

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

Table 104.1.1-1: Void

104.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-7A specified in [5].

104.1.3 Demodulation performance and CSI reporting Requirements

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

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

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

105.1 CA_2A-5A-12A UE

UEs that conform to Release 10 and support CA_4A-4A-12A shall support the following requirements in Release 12.

105.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-12A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 105.1.1-1: Void

105.1.2 RRM Requirements

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

105.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_4A-5A-12A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

106.1 CA_4A-5A-12A UE

UEs that conform to Release 10 and support CA_2A-4A-12A shall support the following requirements in Release 12.

106.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-12A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 106.1.1-1: Void

106.1.2 RRM Requirements

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

106.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-12A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_2A-5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

107.1 CA_2A-5A-30A UE

UEs that conform to Release 10 and support CA_2A-5A-30A shall support the following requirements in Release 12.

107.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 107.1.1-1: Void

107.1.2 RRM Requirements

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

107.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

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

108.1 CA_2A-12A-30A UE

UEs that conform to Release 10 and support CA_2A-12A-30A shall support the following requirements in Release 12.

108.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-12A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 108.1.1-1: Voir

108.1.2 RRM Requirements

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

108.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_2A-29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

109.1 CA_2A-29A-30A UE

UEs that conform to Release 10 and support CA_2A-29A-30A shall support the following requirements in Release 12.

109.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-29A-30A specified in [4] which are listed in Table B.4.4-1 of [7].

Table 109.1.1-1: Void

109.1.2 RRM Requirements

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

109.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-29A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_4A-5A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

110.1 CA_4A-5A-30A UE

UEs that conform to Release 10 and support CA_4A-5A-30A shall support the following requirements in Release 12.

110.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 110.1.1-1: Void

110.1.2 RRM Requirements

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

110.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

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

111.1 CA_4A-12A-30A UE

UEs that conform to Release 10 and support CA_4A-12A-30A shall support the following requirements in Release 12.

111.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-12A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 111.1.1-1: Void

111.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-12A-30A specified in [5].

111.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-12A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_4A-29A-30A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

112.1 CA_4A-29A-30A UE

UEs that conform to Release 10 and support CA_4A-29A-30A shall support the following requirements in Release 12.

112.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-29A-30A specified in [4] which are listed in Table B.4.4-1 of [7].

Table 112.1.1-1: Void

112.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-92A-30A specified in [5].

112.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-92A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

113 CA configuration CA_2A-30A Independent of Release

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

113.1 CA_2A-30A UE

UEs that conform to Release 10 and support CA_2A-30A shall support the following requirements in Release 12.

113.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 113.1.1-1: Void

113.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-30A specified in [5] which are listed in Table B.2.4-1 of [7].

113.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

114 CA configuration CA_4A-30A Independent of Release

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

114.1 CA_4A-30A UE

UEs that conform to Release 10 and support CA_4A-30A shall support the following requirements in Release 12.

114.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 114.1.1-1: Void

114.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-30A specified in [5] which are listed in Table B.2.4-1 of [7].

114.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

115 CA configuration CA_5A-30A Independent of Release

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

115.1 CA_5A-30A UE

UEs that conform to Release 10 and support CA_5A-30A shall support the following requirements in Release 12.

115.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 115.1.1-1: Void

115.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-30A specified in [5] which are listed in Table B.2.4-1 of [7].

115.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

116 CA configuration CA_12A-30A Independent of Release

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

116.1 CA_12A-30A UE

UEs that conform to Release 10 and support CA_2A-30A shall support the following requirements in Release 12.

116.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_12A-30A specified in [4] which are listed in Table B.4.3-1 of [7].

Table 116.1.1-1: Void

116.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_12A-30A specified in [5] which are listed in Table B.2.4-1 of [7].

116.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-13A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

117 CA configuration CA_29A-30A Independent of Release

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

117.1 CA_29A-30A UE

UEs that conform to Release 10 and support CA_29A-30A shall support the following requirements in Release 12.

117.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_29A-30A specified in [4] which are listed in Table B.4.4-1 of [7].

Table 117.1.1-1: Void

117.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_29A-30A specified in [5] which are listed in Table B.2.4-1 of [7].

117.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_29A-30A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

118 CA configuration CA_40D Independent of Release

CA configuration CA_40D is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

118.1 CA_40D UE

UEs that conform to Release 10 and support CA_40D shall support the following requirements in Release 12.

118.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_40D specified in [4] which are listed in Table B.4.2-1 of [7].

118.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_40D specified in [5] which are listed in Table B.2.2-1 of [7].

118.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_40D among demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

119 Void

120 Void

121 Void

122 CA configuration CA_1A-28A Independent of Release

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

122.1 CA_1A-28A UE

UEs that conform to Release 10 and support CA_1A-28A shall support the following requirements in Release 12.

122.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-28A specified in [4] which are listed in Table B.4.3-1 of [7].

122.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-28A specified in [5] which are listed in Table B.2.4-1 of [7].

122.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-28A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

123 CA configuration CA_5A-13A Independent of Release

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

123.1 CA_5A-13A UE

UEs that conform to Release 10 and support CA_5A-13A shall support the following requirements in Release 12.

123.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5A-13A specified in [4] which are listed in Table B.4.3-1 of [7].

123.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-13A specified in [5] which are listed in Table B.2.4-1 of [7].

123.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-13A among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

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

CA configuration CA_1A-3A-26A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

124.1 CA_1A-3A-26A UE

UEs that conform to Release 10 and support CA_1A-3A-26A shall support the following requirements in Release 12.

124.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-3A-26A specified in [4] which are listed in Table B.4.3-1 of [7].

124.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-26A specified in [5].

124.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-26A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

125 CA configuration CA_2C Independent of Release

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

125.1 CA_2C UE

UEs that conform to Release 10 and support CA_2C shall support the following requirements in Release 12.

125.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C specified in [4] which are listed in Table B.4.2-1 of [7].

125.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2C specified in [5] which are listed in Table B.2.2-1 of [7].

125.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C among the demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

126 CA configuration CA_2C-29A Independent of Release

CA configuration CA_2C-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

126.1 CA_2C-29A UE

UEs that conform to Release 10 and support CA_2C-29A shall support the following requirements in Release 12.

126.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2C-29A specified in [4] which are listed in Table B.4.4-1 of [7].

126.1.2 RRM Requirements

The UE shall comply with the RRM requirements for 2C-29A specified in [5].

126.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2C-29A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_2A-4A-29A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

127.1 CA_2A-4A-29A UE

UEs that conform to Release 10 and support CA_2A-4A-29A shall support the following requirements in Release 12.

127.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-29A specified in [4] which are listed in Table B.4.4-1 of [7].

127.1.2 RRM Requirements

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

127.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-29A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

128 CA configuration CA_7A-8A Independent of Release

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

128.1 CA_7A-8A UE

UEs that conform to Release 10 and support CA_7A-8A shall support the following requirements in Release 12.

128.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-8A specified in [4] which are listed in Table B.4.3-1 of [7].

128.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-8A specified in [5] which are listed in Table B.2.4-1 of [7].

128.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-8A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

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

CA configuration CA_7A-8A-20A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

129.1 CA_7A-8A-20A UE

UEs that conform to Release 10 and support CA_7A-8A-20A shall support the following requirements in Release 12.

129.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-8A-20A specified in [4] which are listed in Table B.4.3-1 of [7].

129.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-8A-20A specified in [5].

129.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-8A-20A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1 of [7].

130 CA configuration CA_39C-41A Independent of Release

CA configuration CA_39C-41A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

130.1 CA_39C-41A UE

UEs that conform to Release 10 and support CA_39C-41A shall support the following requirements in Release 12.

130.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39C-41A specified in [4] which are listed in Table B.4.3-1 of [7].

130.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39C-41A specified in [5].

130.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39C-41A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

131 CA configuration CA_39A-41C Independent of Release

CA configuration CA_39A-41C is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

131.1 CA_39A-41C UE

UEs that conform to Release 10 and support 39A-41C shall support the following requirements in Release 12.

131.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_39A-41C specified in [4] which are listed in Table B.4.3-1 of [7].

131.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_39A-41C specified in [5].

131.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_39A-41C among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

132 CA configuration CA_7A-12A Independent of Release

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

132.1 CA_7A-12A UE

UEs that conform to Release 10 and support CA_7A-12A shall support the following requirements in Release 12.

132.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_7A-12A specified in [4] which are listed in Table B.4.3-1 of [7].

132.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-12A specified in [5] which are listed in Table B.2.4-1 of [7].

132.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7A-12A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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 [10].

133.1 CA_4A-7A-12A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

133.1.2 RRM Requirements

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

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 [11] and listed in Table B.3.2-1of [13].

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

CA configuration CA_2A-5A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

134.1 CA_2A-5A-13A UE

UEs that conform to Release 10 and support CA_2A-5A-13A shall support the following requirements in Release 12.

134.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-5A-13A specified in [4] which are listed in Table B.4.3-1 of [7].

134.1.2 RRM Requirements

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

134.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-13A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_4A-5A-13A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

135.1 CA_4A-5A-13A UE

UEs that conform to Release 10 and support CA_4A-5A-13A shall support the following requirements in Release 12.

135.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_4A-5A-13A specified in [4] which are listed in Table B.4.3-1 of [7].

135.1.2 RRM Requirements

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

135.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-5A-13A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

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

CA configuration CA_1A-18A-28A is specified in Release 12 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

136.1 CA_1A-18A-28A UE

UEs that conform to Release 10 and support CA_1A-18A-28A shall support the following requirements in Release 12.

136.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-18A-28A specified in [4] which are listed in Table B.4.3-1 of [7].

136.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-18A-28A specified in [5].

136.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-18A-28A among the CA demodulation performance and CSI reporting requirements specified in [4] and listed in Table B.3.2-1of [7].

137 Void

138 Void

139 Void

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-10 upwards for UE Categories specified in [10].

140.1 CA_1A-3A-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

140.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

140.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

141.1 CA_1A-7A-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

141.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

141.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7A-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

142.1 CA_2A-5A-29A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.4-1 of [13].

142.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-5A-29A specified in [12] which are listed in Table B.2.4-1 of [13].

142.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-5A-29A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

143.1 CA_3C-5A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

143.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-5A specified in [12] which are listed in Table B.2.4-1 of [13].

143.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-5A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

144.1 CA_3A-7B UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

144.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7 B specified in [12] which are listed in Table B.2.4-1 of [13].

144.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7B among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

145.1 CA_3A-7A-8A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

145.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-8A specified in [12] which are listed in Table B.2.4-1 of [13].

145.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-8A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

146 CA configuration CA_3A_7A_28A Independent of Release

CA configuration CA_3A-7A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

146.1 CA_3A-7A-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

146.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-7A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

146.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3A-7A-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.4-1 of [13].

147.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_5A-29A specified in [12] which are listed in Table B.2.4-1 of [13].

147.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_5A-29A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.2-1 of [13].

148.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7B specified in [12] which are listed in Table B.2.4-1 of [13].

148.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7B among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

149.1 CA_7B-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

149.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7B-28A specified in [12] which are listed in Table B.2.4-1 of [13].

149.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7B-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

150.1 CA_7C-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

150.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7C-28A specified in [12] which are listed in Table B.2.4-1 of [13].

150.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_7C-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

151 Void

151.1 Void

151.1.1 Void

151.1.2 Void

151.1.3 Void

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 10 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 [11] which are listed in Table B.4.3-1 of [13].

152.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40A specified in [12] which are listed in Table B.2.4-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

153 CA configuration CA_38A-40C Independent of Release

CA configuration CA_38A-40C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

153.1 CA_38A-40C UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

153.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_38A-40C specified in [12] which are listed in Table B.2.4-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

154 Void

154.1 Void

154.1.1 Void

154.1.2 Void

154.1.3 Void

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-10 upwards for UE Categories specified in [10].

155.1 CA_41A-42C UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

155.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_41A-42C specified in [12] which are listed in Table B.2.4-1 of [13].

155.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_41A-42C among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.3-1 of [13].

156.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

156.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-28A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.3-1 of [13].

157.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3A-31A specified in [12] which are listed in Table B.2.4-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.3-1 of [13].

158.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_4A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

158.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_4A-28A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.3-1 of [13].

159.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_7A-22A specified in [12] which are listed in Table B.2.4-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.3-1 of [13].

160.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-31A specified in [12] which are listed in Table B.2.4-1 of [13].

160.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-31A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

161 CA configuration CA_25A-26A Independent of Release

CA configuration CA_25A-12A 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 10 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 [11] which are listed in Table B.4.3-1 of [13] with the following exception. For uplink transmissions in Band 26, the UE shall comply with the additional spurious emissions requirements in sub-clause 6.6.3.3.5 (“NS_12”) and sub-clause 6.6.3.3.6 (“NS_13”) as specified in [2].

161.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_25A-26A specified in [12] which are listed in Table B.2.4-1 of [13].

161.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_25A-26A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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-10 upwards for UE Categories specified in [10].

162.1 CA_42D UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.2-1 of [13].

162.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_42D specified in [12] which are listed in Table B.2.2-1 of [13].

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 [11], which are listed in section B.3.2-1 of [13].

163 Void

164 Void

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-10 upwards for UE Categories specified in [10].

165.1 CA_2C-5A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

165.1.2 RRM Requirements

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

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 [11].

166 Void

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-10 upwards for UE Categories specified in [10].

167.1 CA_2C-12A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

167.1.2 RRM Requirements

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

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 [11].

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-10 upwards for UE Categories specified in [10].

168.1 CA_2C-30A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

168.1.2 RRM Requirements

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

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 [11].

169 Void

170 Void

171 Void

172 Void

173 Void

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-10 upwards for UE Categories specified in [10].

174.1 CA_2A-4A-30A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

174.1.2 RRM Requirements

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

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 [11].

175 to 194 Void

195 CA configuration 4A-5A-29A Independent of Release

CA configuration 4A-5A-29A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

195.1 4A-5A-29A UE

UEs that conform to Release 10 and support 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 4A-5A-29A specified in [11] which are listed in Table B.4.2-1 of [13].

195.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for 4A-5A-29A specified in [12] which are listed in Table B.2.2-1 of [13].

195.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the demodulation performance and CSI reporting requirements for 4A-5A-29A specified in [11], which are listed in section B.3.2-1 of [13].

195 to 204 Void

205 CA configuration CA_19A-28A Independent of Release

CA configuration CA_19A-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

205.1 CA_19A-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

205.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_19A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

205.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_19A-28A among the demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 [10].

206.1 CA_1A-19A-28A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

206.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-19A-28A specified in [12] which are listed in Table B.2.4-1 of [13].

206.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-19A-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 [10].

207.1 CA_1A-8A-11A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

207.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-8A-11A specified in [12] which are listed in Table B.2.4-1 of [13].

207.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-8A-11A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

208 CA configuration CA_1A-3C Independent of Release

CA configuration CA_1A-3C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

208.1 CA_1A-3C UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

208.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3C specified in [12] which are listed in Table B.2.4-1 of [13].

208.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3C among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

209 – 213 Void

214 Band 45 Independent of Release

Band 45 is specified in Release 13 but is defined as a release-independent frequency band. This approach aligns the Band 45 with other frequency bands when considering features that have to be supported in different releases.

214.1 Band 45 UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.1-1 of [13].

214.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 45 specified in [12] which are listed in Table B.2.1-1 of [13].

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 10 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 [11] which are listed in Table B.4.1-1 of [13].

215.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 65 specified in [12] which are listed in Table B.2.1-1 of [13].

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 10 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 [11] which are listed in Table B.4.1-1 of [13].

216.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 66 specified in [12] which are listed in Table B.2.1-1 of [13].

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 10 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 [11] which are listed in Table B.4.2-1 of [13].

217.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_66B specified in [12] which are listed in Table B.2.2-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

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 10 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 [11] which are listed in Table B.4.2-1 of [13].

218.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_66C specified in [12] which are listed in Table B.2.2-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

219 Void

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.

220.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_5B specified in [11] which are listed in Table B.4.2-1 of [13].

220.1.2 RRM Requirements

The UE shall comply with the RRM Requirements for CA_5B specified in [12] which are listed in Table B.2.2-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

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 [10].

221.1 CA_8B UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.2-1 of [13].

221.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_8B specified in [12] which are listed in Table B.2.2-1 of [13].

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 [11] and listed in Table B.3.2-1 of [13].

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-10 upwards.

222.1 CA_20A-67A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

222.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_20A-67A specified in [12] which are listed in Table B.2.4-1 of [13].

222.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_20A-67A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 [10].

223.1 CA_1A-3A-7A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

223.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-3A-7A specified in [12] which are listed in Table B.2.4-1 of [13].

223.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-3A-7A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 [10].

224.1 CA_1A-11A-18A UE

UEs that conform to Release 10 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 [11] which are listed in Table B.4.3-1 of [13].

224.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-11A-18A specified in [12] which are listed in Table B.2.4-1 of [13].

224.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-11A-18A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

225 Void

226 Void

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 10 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 [11] which are listed in Table B.4.2-1 of [13].

227.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_5A-12B specified in [12] which are listed in Table B.2.2-1 of [13].

227.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the demodulation performance and CSI reporting requirements for CA_5A-12B specified in [11], which are listed in section B.3.2-1 of [13].

228 to 230 Void

231 CA configuration 41C-42A Independent of Release

CA configuration 41C-42A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

231.1 41C-42A UE

UEs that conform to Release 10 and support 41C-42A shall support the following requirements in Release 13.

231.1.1 RF Requirements

The UE shall comply with the RF requirements for 41C-42A specified in [11] which are listed in Table B.4.2-1 of [13].

231.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for 41C-42A specified in [12] which are listed in Table B.2.2-1 of [13].

231.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the demodulation performance and CSI reporting requirements for 41C-42A specified in [11], which are listed in section B.3.2-1 of [13].

232 to 237 Void

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 10 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 [11] which are listed in Table B.4.2-1 of [13].

238.1.2 RRM Requirements

The UE shall comply with the following RRM Requirements for CA_1A-7A-8A specified in [12] which are listed in Table B.2.2-1 of [13].

238.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the demodulation performance and CSI reporting requirements for CA_1A-7A-8A specified in [11], which are listed in section B.3.2-1 of [13].

239 – 271 Void

272 Band 68 Independent of Release

Band 68 is specified in Release 13 but is defined as a release-independent frequency band. This approach aligns the Band 68 with other frequency bands when considering features that have to be supported in different releases.

272.1 Band 68 UE

UEs that conform to Release 10 and support Band 68 shall support the following requirements in Release 13.

272.1.1 RF Requirements

The UE shall comply with the RF requirements for Band 68 specified in [11] which are listed in Table B.4.1-1 of [13].

272.1.2 RRM Requirements

The UE shall comply with the RRM requirements for Band 68 specified in [12] which are listed in Table B.2.1-1 of [13].

273 – 274 Void

275 CA configuration CA_2A-4A-7A Independent of Release

CA configuration CA_2A-4A-7A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

275.1 CA_2A-4A-7A UE

UEs that conform to Release 10 and support CA_2A-4A-7A shall support the following requirements in Release 13.

275.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-4A-7A specified in [11] which are listed in Table B.4.3-1 of [13].

275.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-4A-7A specified in [12] which are listed in Table B.2.4-1 of [13].

275.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-4A-7A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

276 CA configuration CA_2A-7A-12A Independent of Release

CA configuration CA_2A-7A-12A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

276.1 CA_2A-7A-12A UE

UEs that conform to Release 10 and support CA_2A-7A-12A shall support the following requirements in Release 13.

276.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-7A-12A specified in [11] which are listed in Table B.4.3-1 of [13].

276.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-7A-12A specified in [12] which are listed in Table B.2.4-1 of [13].

276.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-7A-12A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

277 CA configuration CA_2A-7A Independent of Release

CA configuration CA_2A-7A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards.

277.1 CA_2A-7A UE

UEs that conform to Release 10 and support CA_2A-7A shall support the following requirements in Release 13.

277.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_2A-7A specified in [11] which are listed in Table B.4.4-1 of [13].

277.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_2A-7A specified in [12] which are listed in Table B.2.4-1 of [13].

277.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_2A-7A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

278 – 285 Void

286 CA configuration CA_3C-28A Independent of Release

CA configuration CA_3C-28A is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

286.1 CA_3C-28A UE

UEs that conform to Release 10 and support CA_3C-28A shall support the following requirements in Release 13.

286.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_3C-28A specified in [11] which are listed in Table B.4.3-1 of [13].

286.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_3C-28A specified in [12] which are listed in Table B.2.4-1 of [13].

286.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_3C-28A among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

287 – 291 Void

292 CA configuration CA_1A-7C Independent of Release

CA configuration CA_1A-7C is specified in Release 13 but is defined as a release-independent CA configuration for Rel-10 upwards for UE Categories specified in [10].

292.1 CA_1A-7C UE

UEs that conform to Release 10 and support CA_1A-7C shall support the following requirements in Release 13.

292.1.1 RF Requirements

The UE shall comply with the RF requirements for CA_1A-7C specified in [11] which are listed in Table B.4.3-1 of [13].

292.1.2 RRM Requirements

The UE shall comply with the RRM requirements for CA_1A-7C specified in [12] which are listed in Table B.2.4-1 of [13].

292.1.3 Demodulation performance and CSI reporting Requirements

The UE shall comply with the tests applicable for CA_1A-7C among demodulation performance and CSI reporting requirements specified in [11] and listed in Table B.3.2-1 of [13].

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 [8].

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
NOTE 1: All requirements and the corresponding test cases shall apply, except: - for supporting the corresponding band in Rel-9 and below: clause 4.3 (Minimization of Drive Tests). NOTE 2: All requirements and the corresponding test cases shall apply, except: - 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). NOTE 3: All requirements and corresponding test cases shall apply, except those defined in sections 7.4 and 7.5. NOTE 4: All requirements and corresponding test cases shall apply, except: - 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). NOTE 5: All requirements and corresponding test cases shall apply, except: - for supporting the corresponding band in Rel-8: clauses 9.1.9 (UE Rx-Tx time difference), 9.1.10 (Reference Signal Time Difference). NOTE 6: All requirements and test cases in this table shall apply, except those defined for: carrier aggregation; measurements under time-domain measurement resource restriction, in addition to the exceptions listed above.	

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 [8].

Table B.2.2-1: Common RRM requirements for a single-band CA configuration independent of release

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE:	Only requirements and test cases in this table defined for intra-band contiguous carrier aggregation shall apply.

B.2.3 Common RRM requirements for an inter-band CA configuration

The requirements and test cases listed in Table B.2.3-1 are specified in [8].

Table B.2.3-1: Common RRM requirements for a band-combination CA configuration

Section / Clause	Description
7.1	UE transmit timing
7.7	SCell Activation and Deactivation Delay for E-UTRA Carrier Aggregation
7.8	Interruptions with Carrier Aggregation
8.2	Capabilities for Support of Event Triggering and Reporting Criteria
8.3	Measurements for E-UTRA carrier aggregation
8.4	OTDOA RSTD Measurements for E-UTRAN carrier aggregation
9.1.11	Carrier aggregation measurement accuracy
9.1.12	Reference Signal Time Difference (RSTD) Measurement Accuracy Requirements for Carrier Aggregation
A.8	UE Measurements Procedures
A.9	Measurement Performance Requirements
NOTE:	Only requirements and test cases in this table defined for inter-band carrier aggregation shall apply.

B.3 Common UE performance requirements

B.3.1 Void

Table B.3.1-1: Void

B.3.2 Void

Table B.3.2-1: Void

B.3.3 Void

Table B.3.3-1: 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 [9].

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 [9].

Table B.4.2-1: Common UE RF requirements for an intra-band contiguous CA configuration independent of release

Section / Clause	Description
5.5A	Operating bands for CA
5.6A	Channel bandwidths per operating band for CA
5.7.1A	Channel spacing for CA
5.7.2A	Channel raster for CA
5.7.4A	TX–RX frequency separation for CA
6.2.2A	UE maximum output power for CA
6.2.3A	UE maximum output power for modulation/channel bandwidth for CA
6.2.4A	UE maximum output power with additional requirements for CA
6.2.5A	Configured transmitted power for CA
6.3.2A	UE Minimum utput power for CA
6.3.3A	UE Trasnsmit OFF power for CA
6.3.4A	ON/OFF time mask for CA
6.3.5A	Power control for CA
6.5.1A	Frequency error for CA
6.5.2A	Transmit modulation quality for CA
6.6.1A	Occupied bandwidth for CA
6.6.2.1A	Spectrum emission mask for CA
6.6.2.2A	Additional Spectrum Emission mask for CA
6.6.2.3.2A	UTRA ACLR for CA
6.6.2.3.3A	E-UTRA ACLR for CA
6.6.3.1A	Minimum requirements for CA
6.6.3.2A	Spurious emission band UE co-existence for CA
6.6.3.3A	Additional spurious emissions for CA
6.7.1A	Minimum requirement for CA
7.3.1A	Reference sensitivity for CA
7.4.1A	Maximum input level for CA
7.5.1A	Adjacent Channel Selectivity (ACS) for CA
7.6.1.1A	In-band blocking for CA
7.6.2.1A	Out-of-band blocking for CA
7.6.3.1A	Narrow band blocking for CA
7.7.1A	Spurious response for CA
7.8.1A	Wideband intermodulation for CA
7.10.1A	Receiver response for CA

B.4.3 Common UE RF requirements for an inter-band CA configuration

The requirements and test cases listed in Table B.4.3-1 are specified in [9].

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

Annex C (informative): Change history

Table C.1: Change History

Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
11-2009	RP#46	RP-091141				TS36.307 V0.1.0 approved by RAN (Originally in R4-095022)	0.1.0
02-2010	R4#54	R4-100419				For release 9 version, replace sections 4 to 6 as 'Void' and add a new void section as section 7.	0.2.0
03-2010	RP#47	RP-100162				TS36.307 v1.0.0 for approval	1.0.0
03-2010	RP#47	RP-100162				Approved by RAN	9.0.0
09-2010	RP-49	RP-100927	2			CR LTE_TDD_2600_US spectrum band definition additions to TS 36.307 V900	9.1.0
						Correction of section numbering	9.1.1
12-2010	RP-50	RP-101356	008			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.2.0
12-2010	RP-50	RP-101361	005			Introduction of L-band in TS 36.307	9.2.0
12-2010	RP-50	RP-101344	016			CR creating the rel-10 of the 36.307 specification	9.3.0
12-2010	RP-50	RP-101356	012			Band 42 and 43 parameters for UMTS/LTE 3500 (TDD) for TS 36.307	9.3.0
12-2010	RP-50					Raised to Rel-10 with no technical change	10.0.0
01-2011						Correction to history table	10.0.1
06-2011	RP-52	RP-110804	015			Add Expanded 1900 MHz Band (Band 25) in 36.307	10.1.0
06-2011	RP-52	RP-110812	022			Add 2GHz S-Band (Band 23) in 36.307 (Rel 10)	10.1.0
09-2011	RP-53	RP-111255	025			Add Band 22 for LTE/UMTS 3500 (FDD) to TS 36.307	10.2.0
03-2012	RP-55	RP-120305	028			Introduction of Band 26/XXVI to TS 36.307	10.3.0
2012-06	RP-56	RP-120778	036r1			Correction of references	10.4.0
2012-06	RP-56	RP-120789	042			Introduction of CA_1A-19A to TS 36.307	10.4.0
2012-06	RP-56	RP-120785	044r1			Backdating CA_41C to Rel-10	10.4.0
2012-06	RP-56	RP-120793	048			Introduction of APAC700(FDD) into TS 36.307 Rel.10	10.4.0
2012-06	RP-56	RP-120793	052			Introduction of APAC700(TDD) into TS 36.307 Rel.10	10.4.0
2012-06	RP-56	RP-120791	056			Introduction of e850_LB (Band 27) to TS 36.307	10.4.0
2012-09	RP-57	RP-121335	058			Introduction of CA_1A-21A to TS 36.307	10.5.0
2012-09	RP-57	RP-121337	060r1			TS 36.307 CR for CA_38	10.5.0
2012-09	RP-57	RP-121327	061			Introduction of CA_B7_B20 in 36.307	10.5.0
2012-09	RP-57	RP-121334	062r1			Add requirements for inter-band CA of B_1-18 in TS36.307	10.5.0
2012-09	RP-57	RP-121329	063			Introduction of CA band combination Band3 + Band5 to TS 36.307	10.5.0
2012-09	RP-57	RP-121338	064r1			36.307 CR for LTE_CA_B7	10.5.0
2012-09	RP-57	RP-121331	065			Introduction of CA_3A-20A to TS 36.307	10.5.0
2012-09	RP-57	RP-121333	066			Introduction of CA_8_20 RF requirements into TS36.307	10.5.0
2012-09	RP-57	RP-121295	069r1			Relation between EARFCN for overlapping bands with multiple FBI indication	10.5.0
2012-09	RP-57	RP-121324	071			Introduction of CA_B3_B7 in 36.307	10.5.0
2012-12	RP-58	RP-121884	080			Introduction of CA_3A-8A to TS 36.307	10.6.0
2012-12	RP-58	RP-121890	085			Introduction of CA_4A-5A into 36.307	10.6.0
2012-12	RP-58	RP-121889	087			Introduction of CA band combination Band4 + Band13 to TS 36.307 (Rel-10)	10.6.0
2012-12	RP-58	RP-121894	089			Introduction of CA_B5_B12 in 36.307	10.6.0
2012-12	RP-58	RP-121896	090			Introduction of Band 5 + Band 17 inter-band CA configuration into 36.307	10.6.0
2012-12	RP-58	RP-121887	094			Introduction of CA_4-12 into TS 36.307 (Rel-10)	10.6.0
2012-12	RP-58	RP-121882	096			[Rel-10] Introduction of inter-band CA_11-18 into TS36.307	10.6.0
2012-12	RP-58	RP-121861	098			Release-independent implementation of carrier aggregation configuration CA_4-7	10.6.0
2012-12	RP-58	RP-121901	100			Introduction of Band 29	10.6.0
2012-12	RP-58	RP-121719	0103			Introduction of CA band combination Band2 + Band17 to TS 36.307 (Rel-10)	10.6.0
2012-12	RP-58	RP-121721	0105			Introduction of CA band combination Band4 + Band17 to TS 36.307 (Rel-10)	10.6.0
2013-06	RP-60	RP-130771	106r1			Introduction of CA 1+8 into TS36.307(Rel-10)	10.7.0
2013-06	RP-60	RP-130782	109r1			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 28 to TS 36.307 Rel-10	10.7.0
2013-06	RP-60	RP-130785	112			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 23 and Band 29 to TS 36.307 (Rel-10)	10.7.0

2013-06	RP-60	RP-130779	115			Introduction of LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 26 to TS 36.307 (Rel-10)	10.7.0
2013-06	RP-60	RP-130777	118			Introduction of CA_3A-19A to TS 36.307	10.7.0
2013-06	RP-60	RP-130783	121			Introduction of CA_19A-21A to TS 36.307	10.7.0
2013-06	RP-60	RP-130775	129			Introduction of CA_2A-13A to TS 36.307	10.7.0
2013-06	RP-60	RP-130791	134r1			Introduction of Band 30	10.7.0
2013-06	RP-60	RP-130790	141			Introduction of LTE 450 into TS 36.307 R10	10.7.0
2013-06	RP-60	RP-130765	145			Corrections to release independent specifications	10.7.0
09-2013	RP-61	RP-131300	151			36.307 CR for LTE_CA_C_B3 (Rel-10)	10.8.0
09-2013	RP-61	RP-131303	154r1			Band 31 release independence for UE demodulation performance	10.8.0
09-2013	RP-61	RP-131285	156			[Rel-10] Modify requirements for CA_1A-18A in TS36.307	10.8.0
09-2013	RP-61	RP-131296	157			[Rel-10] Add requirements for CA_1A-26A into TS36.307	10.8.0
09-2013	RP-61	RP-131297	161			Introduction of CA_2A-4A into 36.307 REL-10	10.8.0
09-2013	RP-61	RP-131298	165			Introduction of inter-band CA Band 2+5	10.8.0
12-2013	RP-62	RP-131946	176			Introduction of CA band combination Band2 + Band12 to TS 36.307	10.9.0
12-2013	RP-62	RP-131954	179			Introduction of CA band combination Band12 + Band25 to TS 36.307	10.9.0
12-2013	RP-62	RP-131927	188r1			Correction to release independent specification	10.9.0
12-2013	RP-62	RP-131957	190			Introduction of CA_23B to TS 36.307	10.9.0
12-2013	RP-62	RP-131950	198			Introduction of CA band combination Band5 + Band25 to TS 36.307	10.9.0
12-2013	RP-62	RP-131948	202r1			Introduction of CA band combination B5 + B7 to TS 36.307	10.9.0
12-2013	RP-62	RP-131952	205			Introduction of CA band combination B7 + B28 to TS 36.307	10.9.0
12-2013	RP-62	RP-131925	214r1			UE performance requirements in release independent specification for CA	10.9.0
12-2013	RP-62	RP-131924	222			Introducing 'General' clause with note referring to note in clause 4.4 in TS36.101, editorial corrections and modifications to Forward and Scope clauses	10.9.0
12-2013	RP-62	RP-131959	224			Introduction of LTE_CA_C_B27 to 36.307 (Rel-10)	10.9.0
03-2014	RP-63	RP-140386	225r1			Introduction of CA band combination Band 3 and Band 27 to TS 36.307	10.10.0
03-2014	RP-63	RP-140368	230r1			CR on UE performance requirements in release independent specification	10.10.0
03-2014	RP-63	RP-140368	243r1			Correction to release independent specification	10.10.0
03-2014	RP-63	RP-140371	233			Release independence of Band 14 HPUE	10.10.0
03-2014	RP-63	RP-140187	246			Addition of bandwidth combination set for CA_2A-29A and CA_4A-29A	10.10.0
03-2014	RP-63	RP-140387	195r1			Introduction of CA_39A-41A to TS 36.307	10.10.0
03-2014	RP-63	RP-140388	208r2			Introduction of CA_39C to TS 36.307	10.10.0
06-2014	RP-64	RP-140911	298			Correction of Common RRM requirements for CA in release independent specification (Rel-10)	10.11.0
06-2014	RP-64	RP-140911	257			Introduction of CA band combination Band 1 and Band 5 to TS 36.307	10.11.0
06-2014	RP-64	RP-140911	270			CR on UE performance requirements in release independent specification	10.11.0
06-2014	RP-64	RP-140926	278			Introduction of Band 20+32 CA	10.11.0
06-2014	RP-64	RP-140931	263			Introduction of CA 1+11 to 36.307 (Rel-10)	10.11.0
06-2014	RP-64	RP-140932	344			Additional bandwidth combination set for LTE Advanced inter-band Carrier Aggregation of Band 3 and Band 20, independent of LTE Release	10.11.0
06-2014	RP-64	RP-140933	273			Introduction of CA band combination Band 4 and Band 27 to TS 36.307	10.11.0
06-2014	RP-64	RP-140935	276			Addition of bandwidth combination sets for CA_3A-5A, CA_4A-5A, and CA_4A-12A into 36.307	10.11.0
06-2014	RP-64	RP-140942	338			Introduction of CA band combination Band 1 and Band 20 to TS 36.307	10.11.0
06-2014	RP-64	RP-140942	251			Introduction of CA band combination Band 1 and Band 20 to TS 36.307	10.11.0
06-2014	RP-64	RP-140943	345			Introduction of CA band combination CA_41D into TS 36.307 (Rel-10)	10.11.0
06-2014	RP-64	RP-140946	343			Introduction of CA_42C to TS 36.307	10.11.0
06-2014	RP-64	RP-140952	0304			Introduction of a new CA_7C bandwidth combination set into 36.307 (Rel-10)	10.11.0

09-2014	RP-65	RP-141112	0390r1			[Rel-10] Introduction of inter-band CA_18-28 into TS36.307	10.12.0
09-2014	RP-65	RP-141198	0364r1			Introduction of CA_B1_B3_B19 into TS 36.307 (Rel-10)	10.12.0
09-2014	RP-65	RP-141203	0361r1			Introduction of CA_B1_B3 into TS 36.307 (Rel-10)	10.12.0
09-2014	RP-65	RP-141329	0427r1			Introduction of CA_1A-7A into 36.307 (REI-10)	10.12.0
09-2014	RP-65	RP-141338	0374r2			Introduction of CA_B1_B5_B7 into TS 36.307 (Rel-10)	10.12.0
09-2014	RP-65	RP-141465	0430			Introduction of 3 DL CA for Band 1+7+20	10.12.0
09-2014	RP-65	RP-141527	413			CR for 36.307 on CA UE performance requirement in Rel-10	10.12.0
09-2014	RP-65	RP-141541	411			CR on UE performance requirement for Band 31 for 36.307 Rel-10	10.12.0
09-2014	RP-65	RP-141551	358			Introduction of CA 8+11 to 36.307 (Rel-10)	10.12.0
09-2014	RP-65	RP-141552	377			Introduction of CA_41A-42A to TS 36.307	10.12.0
09-2014	RP-65	RP-141554	416r1			Introduction of requirements for 3DL inter-band carrier aggregation (FDD) and 2DL fallback	10.12.0
09-2014	RP-65	RP-141554	419r1			Introduction of requirements for 3DL inter-band carrier aggregation including Band 30 and 2DL fallback	10.12.0
09-2014	RP-65	RP-141555	382r1			Introduction of 3 Band Carrier Aggregation of Band 1,Band 3 and Band 5 to TS 36.307(Rel.10)	10.12.0
09-2014	RP-65	RP-141556	355r1			Introduction of 3 Band Carrier Aggregation (3DL/1UL) of Band 1, Band 3 and Band 8 to TS 36.307	10.12.0
09-2014	RP-65	RP-141558	400			Introduction of CA band combination Band 1, Band 3 and Band 20 to TS 36.307	10.12.0
09-2014	RP-65	RP-141560	350			Introduction of new CA_40C bandwidth combination set into 36.307	10.12.0
12-2014	RP-66	RP-142142	438			UE RF requirements in the release independent spec	10.13.0
12-2014	RP-66	RP-142166	441			Inclusion of 40D in 36.307	10.13.0
12-2014	RP-66	RP-142182	446			[Rel-10] Introduction of inter-band CA_1-28 into TS36.307	10.13.0
12-2014	RP-66	RP-142189	453			CR for TR 36.307: LTE_CA_B5_B13	10.13.0
12-2014	RP-66	RP-142190	456r2			Introduction of additional band combinations for 3DL inter-band CA	10.13.0
03-2015	RP-67	RP-150392	466			CR for 36.307 on CA UE performance requirement in Rel-10	10.14.0
07-2015	RP-68	RP-151024	473r3			Introduction of CA_42D to TS 36.307(Rel-10)	10.15.0
07-2015	RP-68	RP-150958	480			Removal of CA_2A-2A-13A, CA_4A-4A-13A from rel-10 36.307	10.15.0
07-2015	RP-68	RP-150968	496r2			Release independence CR for 2DL inter-band CA Rel-10	10.15.0
07-2015	RP-68	RP-150972	500r1			Release independence CR for 3DL inter-band CA Rel-10	10.15.0
09-2015	RP-69	RP-151501	0517			Introduction of the finished 4DL inter-band CAs fall back mode to TS 36.307 This CR was not implemented as the cover page said it is for 36.101	10.16.0
09-2015	RP-69	RP-151498	531r1			Rel-13 2DL combinations	10.16.0
09-2015	RP-69	RP-151499	535			Rel-13 3DL combinations	10.16.0
09-2015	RP-69	RP-151487	0542			Correction of TS 36.307 for release independent	10.16.0
12-2015	RP-70	RP-152157	0558r1			Introducing B20 + B67 CA into TS 36.307	10.17.0
12-2015	RP-70	RP-152168	0565			Introduction of intra-band CA_8B to TS 36.307	10.17.0
12-2015	RP-70	RP-152171	0577			Introduction of Band 65	10.17.0
12-2015	RP-70	RP-152162	0601			Introduction of the finished 4DL inter-band CAs fall back mode to TS 36.307	10.17.0
12-2015	RP-70	RP-152173	0609			Introduction of 1447-1467MHz Band into 36.307	10.17.0
12-2015	RP-70	RP-152161	0617			Rel-13 3DL combinations	10.17.0
12-2015	RP-70	RP-152172	0625			Introduction of Band 66	10.17.0
12-2015	RP-70	RP-152167	0635			Introduction of intra-band CA_5B to TS 36.307	10.17.0
03/2016	RP-71	RP-160480	0652		B	Rel-13 3DL combinations	10.18.0
03/2016	RP-71	RP-160482	0648		B	Introduction of 5DL/1UL CA combinations into TS 36.307 (Rel-10)	10.18.0
03/2016	RP-71	RP-160483	0644		B	Introduction of Band 68	10.18.0

History

Document history		
V10.0.1	January 2011	Publication
V10.1.0	June 2011	Publication
V10.2.0	November 2011	Publication
V10.3.0	April 2012	Publication
V10.4.0	July 2012	Publication
V10.5.0	November 2012	Publication
V10.6.0	February 2013	Publication
V10.7.0	July 2013	Publication
V10.8.0	October 2013	Publication
V10.9.0	January 2014	Publication
V10.10.0	April 2014	Publication
V10.11.0	July 2014	Publication
V10.12.0	October 2014	Publication
V10.13.0	February 2015	Publication
V10.14.0	April 2015	Publication
V10.15.0	July 2015	Publication
V10.16.0	October 2015	Publication
V10.17.0	January 2016	Publication
V10.18.0	April 2016	Publication