**3GPP TSG-RAN WG4 Meeting #100-e *R4-2114060***

**Online, Aug 16 – 27, 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.101** | **CR** | **5812** | **rev** |  | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Introduction of LTE inter-band Carrier Aggregation for x bands DL (x=4, 5, 6) with 1 band UL to TS 36.101 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LTE\_CA\_R17\_xBDL\_1BUL-Core | | | | |  | ***Date:*** | | | 2021-08-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Completed 4/5/6 DL CAs from RAN4#100e are introduced to TS 36.101. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The following CA configurations are introduced.   * CA\_1A-3A-3A-8A-38A * CA\_1A-3A-28A-38A * CA\_1A-7A-20A-38A * CA\_1A-7A-28A-38A * CA\_1A-7A-32A-38A * CA\_1A-8A-32A-38A * CA\_1A-20A-28A-38A * CA\_1A-20A-32A-38A * CA\_3A-7A-20A-38A * CA\_3A-20A-28A-38A * CA\_7A-8A-20A-38A * CA\_7A-8A-32A-38A * CA\_7A-20A-28A-38A * CA\_7A-20A-32A-38A * CA\_8A-20A-32A-38A * CA\_1A-3A-7A-20A-38A * CA\_1A-3A-7A-28A-38A * CA\_1A-3A-20A-28A-38A * CA\_1A-7A-8A-20A-38A * CA\_1A-7A-8A-32A-38A * CA\_1A-7A-20A-28A-38A * CA\_1A-7A-20A-32A-38A * CA\_1A-8A-20A-32A-38A * CA\_3A-7A-8A-20A-38A * CA\_3A-7A-20A-28A-38A * CA\_7A-8A-20A-32A-38A * CA\_1A-3A-7A-20A-28A-38A * CA\_1A-3A-7C-20A-28A-38A * CA\_1A-7A-8A-20A-32A-38A | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The CA cannot be used. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.5A, 5.6A.1, 7.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS 36.521-1 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Table 5.5A-2b: Inter-band CA operating bands (four bands)

|  |  |
| --- | --- |
| E-UTRA CA Band | E-UTRA Band  (Table 5.5) |
| CA\_1-3-5-7 | 1, 3, 5, 7 |
| CA\_1-3-3-5-7 | 1, 3, 5, 7 |
| CA\_1-3-5-7-7 | 1, 3, 5, 7 |
| CA\_1-3-5-282 | 1, 3, 5, 28 |
| CA\_1-3-5-40 | 1, 3, 5, 40 |
| CA\_1-3-5-41 | 1, 3, 5, 41 |
| CA\_1-3-7-7-26 | 1, 3, 7, 26 |
| CA\_1-3-7-8 | 1, 3, 7, 8 |
| CA\_1-3-3-7-8 | 1, 3, 7, 8 |
| CA\_1-3-7-7-8 | 1, 3, 7, 8 |
| CA\_1-3-3-7-7-8 | 1, 3, 7, 8 |
| CA\_1-3-7-20 | 1, 3, 7, 20 |
| CA\_1-3-7-7-20 | 1, 3, 7, 20 |
| CA\_1-3-3-7-20 | 1, 3, 7, 20 |
| CA\_1-3-7-26 | 1, 3, 7, 26 |
| CA\_1-3-7-28 | 1, 3, 7, 28 |
| CA\_1-1-3-7-28 | 1, 3, 7, 28 |
| CA\_1-3-3-7-28 | 1, 3, 7, 28 |
| CA\_1-1-3-3-7-28 | 1, 3, 7, 28 |
| CA\_1-3-7-7-28 | 1, 3, 7, 28 |
| CA\_1-3-7-32 | 1, 3, 7, 32 |
| CA\_1-3-7-40 | 1, 3, 7, 40 |
| CA\_1-3-7-42 | 1, 3, 7, 42 |
| CA\_1-3-7-46 | 1, 3, 7, 46 |
| CA\_1-3-8-11 | 1, 3, 8, 11 |
| CA\_1-3-8-20 | 1, 3, 8, 20 |
| CA\_1-3-8-28 | 1, 3, 8, 28 |
| CA\_1-3-8-38 | 1, 3, 8, 38 |
| CA\_1-3-3-8-38 | 1, 3, 8, 38 |
| CA\_1-3-11-28 | 1, 3, 11, 28 |
| CA\_1-3-8-40 | 1, 3, 8, 40 |
| CA\_1-3-8-41 | 1, 3, 8, 41 |
| CA\_1-3-8-42 | 1, 3, 8, 42 |
| CA\_1-3-18-42 | 1, 3, 18, 42 |
| CA\_1-3-19-21 | 1, 3,19, 21 |
| CA\_1-3-3-19-21 | 1, 3,19, 21 |
| CA\_1-3-19-42 | 1, 3,19, 42 |
| CA\_1-3-20-281 | 1, 3, 20, 28 |
| CA\_1-3-3-20-28 | 1, 3, 20, 28 |
| CA\_1-3-20-32 | 1, 3, 20, 32 |
| CA\_1-3-20-38 | 1, 3, 20, 38 |
| CA\_1-3-20-42 | 1, 3, 20, 42 |
| CA\_1-3-20-43 | 1, 3, 20, 43 |
| CA\_1-3-21-28 | 1, 3, 21, 28 |
| CA\_1-3-21-42 | 1, 3, 21, 42 |
| CA\_1-3-28-38 | 1, 3, 28, 38 |
| CA\_1-3-28-40 | 1, 3, 28, 40 |
| CA\_1-3-28-42 | 1, 3, 28, 42 |
| CA\_1-3-32-42 | 1, 3, 32, 42 |
| CA\_1-3-32-43 | 1, 3, 32, 43 |
| CA\_1-3-40-41 | 1, 3, 40, 41 |
| CA\_1-3-41-42 | 1, 3, 41, 42 |
| CA\_1-3-42-43 | 1, 3, 42, 43 |
| CA\_1-5-7-282 | 1, 5, 7, 28 |
| CA\_1-5-7-46 | 1, 5, 7, 46 |
| CA\_1-7-8-20 | 1, 7, 8, 20 |
| CA\_1-7-8-28 | 1, 7, 8, 28 |
| CA\_1-7-8-32 | 1, 7, 8, 32 |
| CA\_1-7-8-38 | 1, 7, 8, 38 |
| CA\_1-7-8-40 | 1, 7, 8, 40 |
| CA\_1-7-20-281 | 1, 7, 20, 28 |
| CA\_1-7-20-32 | 1, 7, 20, 32 |
| CA\_1-7-20-38 | 1, 7, 20, 38 |
| CA\_1-7-20-42 | 1, 7, 20, 42 |
| CA\_1-7-28-32 | 1, 7, 28, 32 |
| CA\_1-7-28-38 | 1, 7, 28, 38 |
| CA\_1-7-28-40 | 1, 7, 28, 40 |
| CA\_1-7-32-38 | 1, 7, 32, 38 |
| CA\_1-8-11-28 | 1, 8, 11, 28 |
| CA\_1-8-11-42 | 1, 8, 11, 42 |
| CA\_1-8-20-28 | 1, 8, 20, 28 |
| CA\_1-8-20-32 | 1, 8, 20, 32 |
| CA\_1-8-20-38 | 1, 8, 20, 38 |
| CA\_1-8-28-32 | 1, 8, 28, 32 |
| CA\_1-8-32-38 | 1, 8, 32, 38 |
| CA\_1-19-21-42 | 1, 19, 21, 42 |
| CA\_1-20-28-32 | 1, 20, 28, 32 |
| CA\_1-20-28-38 | 1, 20, 28, 38 |
| CA\_1-20-32-38 | 1, 20, 32, 38 |
| CA\_1-20-32-42 | 1, 20, 32, 42 |
| CA\_1-20-32-43 | 1, 20, 32, 43 |
| CA\_1-21-28-42 | 1, 21, 28, 42 |
| CA\_1-32-42-43 | 1, 32, 42, 43 |
| CA\_2-2-5-12-66 | 2, 5, 12, 66 |
| CA\_2-2-5-30-66 | 2, 5, 30, 66 |
| CA\_2-2-7-12-66 | 2. 7, 12, 66 |
| CA\_2-7-12-66-66 | 2. 7, 12, 66 |
| CA\_2-2-12-30-66 | 2, 12, 30, 66 |
| CA\_2-2-14-30-66 | 2, 14, 30, 66 |
| CA\_2-4-5-12 | 2, 4, 5, 12 |
| CA\_2-4-5-29 | 2, 4, 5, 29 |
| CA\_2-4-5-30 | 2, 4, 5, 30 |
| CA\_2-4-7-12 | 2, 4, 7, 12 |
| CA\_2-4-12-30 | 2, 4, 12, 30 |
| CA\_2-4-29-30 | 2, 4, 29, 30 |
| CA\_2-5-7-28 | 2, 5, 7, 28 |
| CA\_2-5-7-66 | 2, 5, 7, 66 |
| CA\_2-2-5-7-66 | 2, 5, 7, 66 |
| CA\_2-5-7-7-66 | 2, 5, 7, 66 |
| CA\_2-5-7-66-66 | 2, 5, 7, 66 |
| CA\_2-5-12-66 | 2, 5, 12, 66 |
| CA\_2-5-30-66 | 2, 5, 30, 66 |
| CA\_2-5-30-66-66 | 2, 5, 30, 66 |
| CA\_2-7-12-66 | 2, 7, 12, 66 |
| CA\_2-7-13-66 | 2, 7, 13, 66 |
| CA\_2-7-7-13-66 | 2, 7, 13, 66 |
| CA\_2-7-26-66 | 2, 7, 26, 66 |
| CA\_2-7-28-66 | 2, 7, 28, 66 |
| CA\_2-7-29-66 | 2, 7, 29, 66 |
| CA\_2-7-7-29-66 | 2, 7, 29, 66 |
| CA\_2-7-46-66 | 2, 7, 46, 66 |
| CA\_2-12-30-66 | 2, 12, 30, 66 |
| CA\_2-12-30-66-66 | 2, 12, 30, 66 |
| CA\_2-13-48-66 | 2, 13, 48, 66 |
| CA\_2-13-48-48-66 | 2, 13, 48, 66 |
| CA\_2-14-30-66 | 2, 14, 30, 66 |
| CA\_2-14-30-66-66 | 2, 14, 30, 66 |
| CA\_2-29-30-66 | 2, 29, 30, 66 |
| CA\_2-46-48-66 | 2, 46, 48, 66 |
| CA\_3-5-7-282 | 3, 5, 7, 28 |
| CA\_3-3-5-7-282 | 3, 5, 7, 28 |
| CA\_3-7-8-20 | 3, 7, 8, 20 |
| CA\_3-7-8-28 | 3, 7, 8, 28 |
| CA\_3-7-8-38 | 3, 7, 8, 38 |
| CA\_3-7-8-40 | 3, 7, 8, 40 |
| CA\_3-7-20-281 | 3, 7, 20, 28 |
| CA\_3-7-20-32 | 3, 7, 20, 32 |
| CA\_3-7-20-38 | 3, 7, 20, 38 |
| CA\_3-7-20-42 | 3, 7, 20, 42 |
| CA\_3-7-28-38 | 3, 7, 28, 38 |
| CA\_3-7-28-40 | 3, 7, 28, 40 |
| CA\_3-7-32-46 | 3, 7, 32, 46 |
| CA\_3-8-11-28 | 3, 8, 11, 28 |
| CA\_3-8-20-28 | 3, 8, 20, 28 |
| CA\_3-8-20-38 | 3, 8, 20, 38 |
| CA\_3-8-40-41 | 3, 8, 40, 41 |
| CA\_3-19-21-42 | 3, 19, 21, 42 |
| CA\_3-20-28-38 | 3, 20, 28, 38 |
| CA\_3-20-32-42 | 3, 20, 32, 42 |
| CA\_3-20-32-43 | 3, 20, 32, 43 |
| CA\_3-21-28-42 | 3, 21, 28, 42 |
| CA\_3-28-41-42 | 3, 28, 41, 42 |
| CA\_3-32-42-43 | 3, 32, 42, 43 |
| CA\_7-8-20-28 | 7, 8, 20, 28 |
| CA\_7-8-20-32 | 7, 8, 20, 32 |
| CA\_7-8-20-38 | 7, 8, 20, 38 |
| CA\_7-8-28-32 | 7, 8, 28, 32 |
| CA\_7-8-32-38 | 7, 8, 32, 38 |
| CA\_7-20-28-32 | 7, 20, 28, 32 |
| CA\_7-20-28-38 | 7, 20, 28, 38 |
| CA\_7-20-32-38 | 7, 20, 32, 38 |
| CA\_8-20-28-32 | 8, 20, 28, 32 |
| CA\_8-20-32-38 | 8, 20, 32, 38 |
| NOTE 1: The frequency range in band 28 is restricted for this CA band combination to 703-733 MHz for the UL and 758-788 MHz for the DL  NOTE 2: The frequency range in band 28 is restricted for this CA band combination to 718-748 MHz for the UL and 773-803 MHz for the DL | |

Table 5.5A-2c: Inter-band CA operating bands (five bands)

|  |  |
| --- | --- |
| E-UTRA CA Band | E-UTRA Band  (Table 5.5) |
| CA\_1-3-5-7-282 | 1, 3, 5, 7, 28 |
| CA\_1-3-7-8-20 | 1, 3, 7, 8, 20 |
| CA\_1-3-7-8-28 | 1, 3, 7, 8, 28 |
| CA\_1-3-7-8-38 | 1, 3, 7, 8, 38 |
| CA\_1-3-7-8-40 | 1, 3, 7, 8, 40 |
| CA\_1-3-7-20-281 | 1, 3, 7, 20, 28 |
| CA\_1-3-7-20-32 | 1, 3, 7, 20, 32 |
| CA\_1-3-7-20-38 | 1, 3, 7, 20, 38 |
| CA\_1-3-7-20-42 | 1, 3, 7, 20, 42 |
| CA\_1-3-7-28-38 | 1, 3, 7, 28, 38 |
| CA\_1-3-8-11-28 | 1, 3, 8, 11, 28 |
| CA\_1-3-8-20-28 | 1, 3, 8, 20, 28 |
| CA\_1-3-8-20-38 | 1, 3, 8, 20, 38 |
| CA\_1-3-20-28-38 | 1, 3, 20, 28, 38 |
| CA\_1-3-20-32-42 | 1, 3, 20, 32, 42 |
| CA\_1-3-20-32-43 | 1, 3, 20, 32, 43 |
| CA\_1-3-32-42-43 | 1, 3, 32, 42, 43 |
| CA\_1-7-8-20-28 | 1, 7, 8, 20, 28 |
| CA\_1-7-8-20-32 | 1, 7, 8, 20, 32 |
| CA\_1-7-8-20-38 | 1, 7, 8, 20, 38 |
| CA\_1-7-8-28-32 | 1, 7, 8, 28, 32 |
| CA\_1-7-8-32-38 | 1, 7, 8, 32, 38 |
| CA\_1-7-20-28-32 | 1, 7, 20, 28, 32 |
| CA\_1-7-20-28-38 | 1, 7, 20, 28, 38 |
| CA\_1-7-20-32-38 | 1, 7, 20, 32, 38 |
| CA\_1-8-20-32-38 | 1, 7, 20, 32, 38 |
| CA\_3-7-8-20-28 | 3, 7, 8, 20, 28 |
| CA\_3-7-8-20-38 | 3, 7, 8, 20, 38 |
| CA\_3-7-20-28-38 | 3, 7, 20, 28, 38 |
| CA\_7-8-20-28-32 | 7, 8, 20, 28, 32 |
| CA\_7-8-20-32-38 | 7, 8, 20, 32, 38 |
| NOTE 1: The frequency range in band 28 is restricted for this CA band combination to 703-733 MHz for the UL and 758-788 MHz for the DL  NOTE 2: The frequency range in band 28 is restricted for this CA band combination to 718-748 MHz for the UL and 773-803 MHz for the DL | |

Table 5.5A-2d: Inter-band CA operating bands (six bands)

|  |  |
| --- | --- |
| E-UTRA CA Band | E-UTRA Band  (Table 5.5) |
| CA\_1-3-7-8-20-28 | 1, 3, 7, 8, 20, 28 |
| CA\_1-3-7-20-28-38 | 1, 3, 7, 20, 28, 38 |
| CA\_1-7-8-20-28-32 | 1, 7, 8, 20, 28, 32 |

<Next Changes>

Table 5.6A.1-2b: E-UTRA CA configurations and bandwidth combination sets defined for inter-band CA (four bands)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-UTRA CA configuration / Bandwidth combination set | | | | | | | | | | | | | | |
| E-UTRA CA Configuration | Uplink CA configurations (NOTE 5) | E-UTRA Bands | 1.4 MHz | | 3 MHz | | 5 MHz | 10 MHz | 15 MHz | | 20 MHz | | Maximum aggregated bandwidth  [MHz] | Bandwidth combination set |
| CA\_1A-3A-5A-7A | CA\_1A-3A, CA\_1A-5A6, CA\_1A-7A, CA\_3A-5A, CA\_3A-7A, CA\_5A-7A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | |  | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 1 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-5A-7A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 85 | 0 |
| 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_1A-3A-5A-7A-7A | CA\_1A-3A, CA\_1A-5A6, CA\_1A-7A, CA\_3A-5A, CA\_3A-7A, CA\_5A-7A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 |  | |  | |  | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 | See CA\_7A-7A Bandwidth Combination Set 3 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_1A-3A-5A-28A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 65 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-5A-40A | CA\_1A-3A, CA\_1A-5A6, CA\_3A-5A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 40 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_1A-3A-5A-41A8 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 41 |  | |  | |  |  |  | | Yes | |
| CA\_1A-3A-7A-7A-26A | CA\_1A-3A, CA\_1A-7A, CA\_1A-26A, CA\_3A-7A, CA\_3A-26A, CA\_7A-26A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 95 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 | See the CA\_7A-7A Bandwidth combination set 3 in Table 5.6A.1-3 | | | | | | | | | |
| 26 |  | |  | | Yes | Yes | Yes | |  | |
| CA\_1A-3A-7A-8A | CA\_1A-3A, CA\_1A-7A, CA\_1A-8A, CA\_3A-7A, CA\_3A-8A, CA\_7A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 1 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3C-7A-8A | CA\_3C  CA\_1A-3A  CA\_1A-8A  CA\_3A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 | See the CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3A-3A-7A-8A | CA\_1A-3A, CA\_1A-7A, CA\_1A-8A, CA\_3A-7A, CA\_3A-8A, CA\_7A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 | See the CA\_3A-3A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3A-7A-7A-8A | CA\_1A-3A, CA\_1A-7A, CA\_1A-8A, CA\_3A-7A, CA\_3A-8A, CA\_7A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 | See the CA\_7A-7A Bandwidth combination set 1 in Table 5.6A.1-3 | | | | | | | | | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3A-3A-7A-7A-8A | CA\_1A-3A, CA\_1A-7A, CA\_1A-8A, CA\_3A-7A, CA\_3A-8A, CA\_7A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 3 | See the CA\_3A-3A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 | See the CA\_7A-7A Bandwidth combination set 1 in Table 5.6A.1-3 | | | | | | | | | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3A-7A-20A | CA\_1A-3A, CA\_1A-7A, CA\_1A-20A, CA\_3A-7A, CA\_3A-20A, CA\_7A-20A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 1 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7C-20A | CA\_7C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 | See CA\_7C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3C-7A-20A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-7A-20A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3A-3A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-7A-20A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 | See CA\_7A-7A Bandwidth Combination Set 3 in Table 5.6A.1-3 | | | | | | | | | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-26A | CA\_1A-3A, CA\_1A-7A, CA\_1A-26A, CA\_3A-7A  CA\_3A-26A, CA\_7A-26A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 75 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 26 |  | |  | | Yes | Yes | Yes | |  | |
| CA\_1A-3A-7A-28A | CA\_1A-3A, CA\_1A-7A, CA\_1A-28A, CA\_3A-7A, CA\_3A-28A6, CA\_7A-28A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | |  | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | |  | Yes | Yes | | Yes | |
| 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 1 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3C-7A-28A | CA\_3C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7C-28A | CA\_1A-3A, CA\_1A-7A, CA\_1A-28A, CA\_3A-7A, CA\_3A-28A6, CA\_7A-28A, CA\_7C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | |  | Yes | Yes | | Yes | |
| 7 | See CA\_7C Bandwidth Combination Set 2 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_1A-3C-7C-28A | CA\_3C  CA\_7C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 | See CA\_7C Bandwidth Combination Set 2 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-1A-3A-7A-28A | - | 1 | See CA\_1A-1A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-1A-3A-7C-28A | CA\_7C | 1 | See CA\_1A-1A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 120 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 | See CA\_7C Bandwidth combination set 2 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-1A-3C-7A-28A | CA\_3C | 1 | See CA\_1A-1A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 120 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-1A-3C-7C-28A | CA\_3C CA\_7C | 1 | See CA\_1A-1A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 140 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 | See CA\_7C Bandwidth combination set 2 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-1A-3A-3A-7A-28A | - | 1 | See CA\_1A-1A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 120 | 0 |
| 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-1A-3A-3A-7C-28A | CA\_7C | 1 | See CA\_1A-1A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 140 | 0 |
| 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 | See CA\_7C Bandwidth combination set 2 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-7A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3A-3A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-7C-28A | CA\_7C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 7 | See CA\_7C Bandwidth combination set 2 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-7A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 | See CA\_7A-7A Bandwidth combination set 3 in Table 5.6A.1-3 | | | | | | | | | |
| 28 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-38A9 | CA\_1A-3A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3C-7A-38A9 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-40A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-40C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 40 | See CA\_40C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-7A-42A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-7A-46A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 |  | |  | |  |  |  | | Yes | |
| CA\_1A-3A-7A-46C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 | See CA\_46C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-7A-46D | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 | See CA\_46D Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-7A-46E | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 140 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 | See CA\_46E Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-8A-40A | CA\_1A-3A, CA\_1A-8A, CA\_3A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | | Yes | | Yes | Yes |  | |  | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-8A-40C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | | Yes | | Yes | Yes |  | |  | |
| 40 | See CA\_40C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-8A-11A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 11 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3A-8A-20A | CA\_1A-3A  CA\_1A-8A  CA\_3A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3C-8A-20A | CA\_3C  CA\_1A-3A  CA\_1A-8A  CA\_3A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-8A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-8A-38A | CA\_1A-3A  CA\_1A-8A  CA\_3A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3C-8A-38A | CA\_3C  CA\_1A-3A CA\_1A-8A  CA\_3A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-8A-38A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-8A-41A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 | Yes | | Yes | | Yes | Yes | Yes | | Yes | |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 41 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-8A-42A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-8A-42C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-11A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 11 |  | |  | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-18A-42A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 75 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 18 |  | |  | | Yes | Yes | Yes | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-18A-42C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 95 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 18 |  | |  | | Yes | Yes | Yes | |  | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-19A-21A | CA\_1A-3A, CA\_1A-19A6, CA\_1A-21A, CA\_3A-19A, CA\_3A-21A, CA\_19A-21A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| CA\_1A-3A-19A-42A | CA\_1A-3A, CA\_1A-19A6, CA\_1A-42A, CA\_3A-19A, CA\_3A-42A, CA\_19A-42A6 | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 75 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-19A-21A | CA\_1A-3A CA\_1A-19A6 CA\_1A-21A, CA\_3A-19A CA\_3A-21A CA\_19A-21A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| CA\_1A-3A-19A-42C | CA\_1A-3A, CA\_1A-19A6, CA\_1A-42A, CA\_3A-19A, CA\_3A-42A, CA\_19A-42A6 | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 95 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 42 | See CA\_42C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-20A-28A7 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-3A-20A-28A7 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3A-3A Bandwidth combination set 0 in in Table 5.6A.1-3 | | | | | | | | | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-20A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | |  | Yes |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 1 |  | |  | | Yes | Yes | Yes | |  | | 55 | 1 |
| 3 |  | |  | | Yes | Yes | Yes | |  | |
| 20 |  | |  | | Yes |  |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-20A-38A | CA\_1A-3A  CA\_1A-20A  CA\_3A-20A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 | Yes | | Yes | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3C-20A-38A | CA\_3C  CA\_1A-3A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-20A-42A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-20A-43A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 55 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | |  | |
| 20 |  | |  | | Yes |  |  | |  | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-21A-28A | CA\_1A-3A, CA\_1A-21A, CA\_1A-28A, CA\_3A-21A, CA\_3A-28A6, CA\_21A-28A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 65 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| CA\_1A-3A-21A-42A | CA\_1A-3A, CA\_1A-21A, CA\_1A-42A, CA\_3A-21A, CA\_3A-42A, CA\_21A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 75 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-21A-42C | CA\_1A-3A, CA\_1A-21A, CA\_1A-42A, CA\_3A-21A, CA\_3A-42A, CA\_21A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 95 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 42 | See CA\_42C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-28A-38A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-28A-40A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-28A-40C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 40 | See CA\_40C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-28A-42A | CA\_1A-3A, CA\_1A-28A, CA\_1A-42A, CA\_3A-28A6, CA\_3A-42A, CA\_28A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-28A-42C | CA\_1A-3A, CA\_1A-28A, CA\_1A-42A, CA\_3A-28A6, CA\_3A-42A, CA\_28A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 42 | See CA\_42C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-32A-42A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-32A-43A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-40A-41A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 | Yes | | Yes | | Yes | Yes | Yes | | Yes | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| 41 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-41A-42A | CA\_1A-3A CA\_1A-42A CA\_3A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 41 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-41C-42A | CA\_1A-3A CA\_1A-42A CA\_3A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 41 | See CA\_41C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-3A-41A-42C | CA\_1A-3A CA\_1A-42A CA\_1A-42C CA\_3A-42A CA\_3A-42C  CA\_42C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 41 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-41C-42C | CA\_1A-3A,  CA\_1A-42A,  CA\_1A-42C,  CA\_3A-42A,  CA\_3A-42C  CA\_42C | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | | Yes | |
| 41 | See CA\_41C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-3A-42A-43A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 70 | 0 |
| 3 |  | |  | | Yes | Yes | Yes | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-5A-7A-28A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 65 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-20A-32A-38A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 20 |  | |  | | Yes | Yes |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-20A-32A-42A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 60 | 0 |
| 20 |  | |  | | Yes |  |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-20A-32A-43A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 60 | 0 |
| 20 |  | |  | | Yes |  |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-8A-20A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_1A-7A-8A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-8A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-8A-40A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-5A-7A-46A | CA\_1A-5A6, CA\_1A-7A, CA\_5A-7A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 46 |  | |  | |  |  |  | | Yes | |
| CA\_1A-5A-7A-46C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 46 | See CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-7A-8A-38A10 | CA\_1A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-8A-40C | - | 1 |  | |  | | Yes | Yes | | Yes | | Yes | 90 | 0 |
| 7 |  | |  | |  | Yes | | Yes | | Yes |
| 8 |  | |  | | Yes | Yes | |  | |  |
| 40 | See CA\_40C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-7A-20A-28A7 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-20A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-20A-38A11 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-20A-42A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-28A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-28A-38A12 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-28A-40A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-7A-28A-40C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 40 | See CA\_40C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-7A-32A-38A13 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-11A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 11 |  | |  | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-11A-42A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 11 |  | |  | | Yes | Yes |  | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-11A-42C | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 11 |  | |  | | Yes | Yes |  | |  | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-8A-20A-28A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-20A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-20A-38A | CA\_1A-8A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-28A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 28 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-8A-32A-38A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-19A-21A-42A | CA\_1A-19A6, CA\_1A-21A, CA\_1A-42A, CA\_19A-21A, CA\_19A-42A6, CA\_21A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-19A-21A-42C | CA\_1A-19A6, CA\_1A-21A, CA\_1A-42A, CA\_19A-21A, CA\_19A-42A6, CA\_21A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 42 | See CA\_42C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-20A-28A-32A | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-20A-28A-38A7 | - | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-21A-28A-42A | CA\_1A-21A, CA\_1A-28A, CA\_1A-42A, CA\_21A-28A, CA\_21A-42A, CA\_28A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 65 | 0 |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_1A-21A-28A-42C | CA\_1A-21A, CA\_1A-28A, CA\_1A-42A, CA\_21A-28A, CA\_21A-42A, CA\_28A-42A | 1 |  | |  | | Yes | Yes | Yes | | Yes | | 85 | 0 |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 42 | See CA\_42C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_1A-32A-42A-43A | - | 1 |  | |  | | Yes | Yes | Yes | |  | | 75 | 0 |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-2A-5A-12A-66A | - | 2 | See CA\_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 80 | 0 |
| 5 |  |  | | Yes | | Yes | |  | |  |
| 12 |  |  | | Yes | | Yes | |  | |  |
| 66 |  |  | | Yes | | Yes | | Yes | | Yes |
| CA\_2A-2A-5A-30A-66A | - | 2 | See CA\_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 80 | 0 |
| 5 |  |  | | Yes | | Yes | |  | |  |
| 30 |  |  | | Yes | | Yes | |  | |  |
| 66 |  |  | | Yes | | Yes | | Yes | | Yes |
| CA\_2A-2A-7A-12A-66A | - | 2 | See CA\_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 90 | 0 |
| 7 |  |  | | Yes | | Yes | | Yes | | Yes |
| 12 |  |  | | Yes | | Yes | |  | |  |
| 66 |  |  | | Yes | | Yes | | Yes | | Yes |
| CA\_2A-7A-12A-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-2A-12A-30A-66A | - | 2 | See CA\_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 80 | 0 |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-2A-14A-30A-66A | CA\_2A-14A  CA\_14A-30A CA\_14A-66A | 2 | See CA\_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 80 | 0 |
| 14 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-4A-5A-12A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 12 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-4A-5A-29A | CA\_2A-4A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 29 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-4A-5A-30A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-4A-5B-30A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 5 | See CA\_5B Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-4A-7A-12A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 12 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-4A-12A-30A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-4A-29A-30A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 4 |  | |  | | Yes | Yes | Yes | | Yes | |
| 29 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| CA\_2A-5A-7A-28A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-7A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-2A-5A-7A-66A | - | 2 | See CA\_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-7C-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 | See CA\_7C Bandwidth Combination Set 1 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-7A-7A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 | See CA\_7A-7A Bandwidth Combination Set 1 in Table 5.6A.1-3 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-7A-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5A-12A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-30A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-30A-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5B-30A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 | See CA\_5B Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-46A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 |  | |  | |  |  |  | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-46C-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-46D-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-46E-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46E Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-46A-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 |  | |  | |  |  |  | | Yes | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5A-46C-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5A-46D-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5A-48A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_5A-66A  CA\_5A-48A  CA\_2A-5A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 | Yes | | Yes | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-48A-66A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_5A-66A  CA\_5A-48A  CA\_2A-5A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5A-48C-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_5A-66A  CA\_5A-48A  CA\_2A-5A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48C Bandwidth combination set 0 in Table 5.6A1-1 | | | | | | | | | |
| 66 | Yes | | Yes | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-48C-66A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_5A-66A  CA\_5A-48A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48C Bandwidth combination set 0 in Table 5.6A1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-5A-48D-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_5A-66A  CA\_5A-48A  CA\_2A-5A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48D Bandwidth combination set 0 in Table 5.6A1-1 | | | | | | | | | |
| 66 | Yes | | Yes | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-48D-66A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_5A-66A  CA\_5A-48A  CA\_2A-5A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 5 | Yes | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48D Bandwidth combination set 0 in Table 5.6A1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-7A-12A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-12B-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 75 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 12 | See CA\_12B Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-13A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-7A-13A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 7 | See CA\_7A-7A Bandwidth Combination Set 1 in Table 5.6A.1-3 | | | | | | | | | |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7C-13A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 7 | See CA\_7C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-26A-66A | - | 2 |  | | Yes | | Yes | Yes | Yes | | Yes | | 75 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 26 |  | | Yes | | Yes | Yes | Yes | |  | |
| 66 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-28A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7C-28A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 7 | See CA\_7C Bandwidth Combination Set 1 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-29A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 29 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7C-29A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 7 | See CA\_7C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| 29 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-7A-29A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 7 | See CA\_7A-7A Bandwidth combination set 3 in Table 5.6A.1-3 | | | | | | | | | |
| 29 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-7A-46A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 |  | |  | |  | Yes |  | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-12A-30A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-12A-30A-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 12 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-46A-66A | CA\_2A-13A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 |  | |  | |  |  |  | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-46C-66A | CA\_2A-13A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-46D-66A | CA\_2A-13A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-5A-46E-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46E Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-46A-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 |  | |  | |  |  |  | | Yes | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-46C-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-46D-66A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 | See CA\_46D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-48A-66A | CA\_2A-13A  CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_13A-66A  CA\_13A-48A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-48A-66A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_13A-66A  CA\_13A-48A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-48C-66A | CA\_2A-13A  CA\_2A-48A  CA\_2A-66A  CA\_13A-66A  CA\_13A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48C Bandwidth combination set 0 in the Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-48C-66A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_13A-66A  CA\_13A-48A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48C Bandwidth combination set 0 in the Table 5.6A.1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-48D-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_13A-66A  CA\_13A-48A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48D Bandwidth combination set 0 in the Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-48D-66A-66A | CA\_2A-66A  CA\_2A-48A  CA\_48A-66A  CA\_13A-66A  CA\_13A-48A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48D Bandwidth combination set 0 in the Table 5.6A.1-1 | | | | | | | | | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-13A-46E-66A | CA\_2A-13A | 2 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 130 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 46 | See the CA\_46E Bandwidth combination set 0 in the Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-13A-48A-48A-66A | CA\_2A-13A  CA\_13A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 13 |  | |  | | Yes | Yes |  | |  | |
| 48 | See CA\_48A-48A Bandwidth combination set 0 in the Table 5.6A.1-3 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-14A-30A-66A | CA\_2A-14A  CA\_14A-30A CA\_14A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 14 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-14A-30A-66A-66A | CA\_2A-14A  CA\_14A-30A CA\_14A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 14 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 | See CA\_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | |
| CA\_2A-29A-30A-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 29 |  | |  | | Yes | Yes |  | |  | |
| 30 |  | |  | | Yes | Yes |  | |  | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46A-48A-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 46 |  | |  | |  |  |  | | Yes | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46A-48C-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 46 |  | |  | |  |  |  | | Yes | |
| 48 | See the CA\_48C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46A-48D-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 46 |  | |  | |  |  |  | | Yes | |
| 48 | See the CA\_48D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46C-48A-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 46 | See the CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46C-48C-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 46 | See the CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 48 | See the CA\_48C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46C-48D-66A | - | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 140 | 0 |
| 46 | See the CA\_46C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 48 | See the CA\_48D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46D-48A-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 46 | See the CA\_46D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46D-48C-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 140 | 0 |
| 46 | See the CA\_46D Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 48 | See the CA\_48C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_2A-46E-48A-66A | CA\_2A-48A  CA\_48A-66A | 2 |  | |  | | Yes | Yes | Yes | | Yes | | 140 | 0 |
| 46 | See CA\_46E Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 48 |  | |  | | Yes | Yes | Yes | | Yes | |
| 66 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-5A-7A-28A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-5A-7C-28A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 | See CA\_7C Bandwidth Combination Set 1 in Table 5.6A.1-1 | | | | | | | | | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-3A-5A-7A-28A | - | 3 | See CA\_3A-3A Bandwidth Combination Set 0 in Table 5.6A.1-3 | | | | | | | | | | 90 | 0 |
| 5 |  | |  | | Yes | Yes |  | |  | |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-8A-20A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-8A-28A | - | 3 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | | Yes | Yes | Yes | | Yes | |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-8A-38A9 | CA\_3A-8A | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3C-7A-8A-38A1 | - | 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | | 90 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-8A-40A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-8A-40C | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 40 | See CA\_40C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-7A-20A-28A7 | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3C-7A-20A-28A7 | - | 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | | 100 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_3A-7A-20A-32A | CA\_3A-7A, CA\_3A-20A, CA\_7A-20A | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-20A-38A14 | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-20A-42A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-28A-38A9 | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3C-7A-28A-38A9 | - | 3 | See CA\_3C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | | 100 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-28A-40A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-7A-28A-40C | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 40 | See CA\_40C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-7A-32A-46A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 |  | |  | |  |  |  | | Yes | |
| CA\_3A-7A-32A-46C | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 100 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 | See CA\_46C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-7A-32A-46D | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 120 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 | See CA\_46D Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-7A-32A-46E | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 140 | 0 |
| 7 |  | |  | |  | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 46 | See CA\_46E of Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-8A-11A-28A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 60 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 11 |  | |  | | Yes | Yes |  | |  | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-8A-20A-28A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-8A-20A-38A | CA\_3A-8A | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-8A-40A-41A | - | 3 | Yes | | Yes | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 40 |  | |  | | Yes | Yes | Yes | | Yes | |
| 41 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-19A-21A-42A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-19A-21A-42C | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 19 |  | |  | | Yes | Yes | Yes | |  | |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-20A-28A-38A7 | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-20A-32A-42A | - | 3 |  | |  | | Yes | Yes | Yes | |  | | 60 | 0 |
| 20 |  | |  | | Yes |  |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-20A-32A-43A | - | 3 |  | |  | | Yes | Yes | Yes | |  | | 60 | 0 |
| 20 |  | |  | | Yes |  |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-21A-28A-42A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 65 | 0 |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_3A-21A-28A-42C | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 85 | 0 |
| 21 |  | |  | | Yes | Yes | Yes | |  | |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 42 | See CA\_42C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-28A-41A-42A | CA\_3A-41A, CA\_41A-42A | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 41 |  | |  | |  | Yes | Yes | | Yes | |
| 42 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_3A-28A-41A-42C | CA\_42C | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 41 |  | |  | |  | Yes | Yes | | Yes | |
| 42 | See CA\_42C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-28A-41C-42A | - | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 90 | 0 |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 41 | See CA\_41C Bandwidth Combination Set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 42 |  | |  | |  | Yes | Yes | | Yes | |
| CA\_3A-28A-41C-42C | CA\_42C | 3 |  | |  | | Yes | Yes | Yes | | Yes | | 110 | 0 |
| 28 |  | |  | | Yes | Yes |  | |  | |
| 41 | See the CA\_41C Bandwidth combination set 0 in Table 5.6A.1-1 | | | | | | | | | |
| 42 | See the CA\_42C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | | | | | |
| CA\_3A-32A-42A-43A | - | 3 |  | |  | | Yes | Yes | Yes | |  | | 75 | 0 |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 42 |  | |  | | Yes | Yes | Yes | | Yes | |
| 43 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-8A-20A-28A | - | 7 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-8A-20A-32A | - | 7 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-8A-20A-38A15 | - | 7 |  | |  | |  | Yes | Yes | | Yes | | 60 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 20 |  | |  | | Yes | Yes |  | |  | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-8A-28A-32A | - | 7 |  | |  | | Yes | Yes | Yes | | Yes | | 70 | 0 |
| 8 | Yes | | Yes | | Yes | Yes |  | |  | |
| 28 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-8A-32A-38A16 | - | 7 |  | |  | |  | Yes | Yes | | Yes | | 70 | 0 |
| 8 |  | |  | | Yes | Yes |  | |  | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-20A-28A-32A | - | 7 |  | |  | | Yes | Yes | Yes | | Yes | | 80 | 0 |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-20A-28A-38A7,17 | - | 7 |  | |  | |  | Yes | Yes | | Yes | | 80 | 0 |
| 20 |  | |  | |  | Yes | Yes | | Yes | |
| 28 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_7A-20A-32A-38A18 | - | 7 |  | |  | |  | Yes | Yes | | Yes | | 80 | 0 |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_8A-20A-28A-32A | - | 8 | Yes | | Yes | | Yes | Yes |  | |  | | 70 | 0 |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 28 |  | | Yes | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| CA\_8A-20A-32A-38A | - | 8 |  | |  | | Yes | Yes |  | |  | | 70 | 0 |
| 20 |  | |  | | Yes | Yes | Yes | | Yes | |
| 32 |  | |  | | Yes | Yes | Yes | | Yes | |
| 38 |  | |  | | Yes | Yes | Yes | | Yes | |
| NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.  NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.  NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.  NOTE 4: A terminal which supports a DL CA configuration shall support all the lower order fallback DL CA combinations and it shall support at least one bandwidth combination set for each of the constituent lower order DL combinations containing all the bandwidths specified within each specific combination set of the upper order DL combination.  NOTE 5: Uplink CA configurations are the configurations supported by the present release of specifications.  NOTE 6: If the UE supports any uplink CA configuration for corresponding downlink CA configuration it shall support this uplink CA configuration.  NOTE 7: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].  NOTE 8: UL carrier is only supported on Band 1, Band 3 or Band 5 not Band 41 because the fall back mode 2DL/1UL CA\_1A-41A has the limitation that UL carrier is only supported on Band 1.  NOTE 9: UL carrier shall be supported in Band 1, 3, 8 or 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 10: UL carrier shall be supported in Band 1 or 8 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 11: UL carrier shall be supported in Bands 1 and 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 12: UL carrier shall be supported in Bands 1 and 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 13: UL carrier shall be supported in Band 1 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 14: UL carrier shall be supported in Bands 3 and 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 15: UL carrier shall be supported in Bands 8 and 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 16: UL carrier shall be supported in Band 8 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 17: UL carrier shall be supported in Bands 20 and 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 18: UL carrier shall be supported in Band 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB] | | | | | | | | | | | | | | |

Table 5.6A.1-2c: E-UTRA CA configurations and bandwidth combination sets defined for inter-band CA (five bands)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-UTRA CA configuration / Bandwidth combination set | | | | | | | | | | |
| E-UTRA CA Configuration | Uplink CA configurations (NOTE 5) | E-UTRA Bands | 1.4 MHz | 3 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz | Maximum aggregated bandwidth  [MHz] | Bandwidth combination set |
| CA\_1A-3A-5A-7A-28A | - | 1 |  |  | Yes | Yes | Yes |  | 85 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 5 |  |  | Yes | Yes |  |  |
| 7 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-8A-20A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  |  | Yes | Yes | Yes |
| CA\_1A-3A-7A-8A-28A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 3 | Yes | Yes | Yes | Yes | Yes | Yes |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-8A-38A8 | CA\_1A-3A  CA\_1A-8A  CA\_3A-8A | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-8A-40A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 40 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-8A-40C | - | 1 |  |  | Yes | Yes | Yes | Yes | 110 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 40 | See CA\_40C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | |
| CA\_1A-3A-7A-20A-28A7 | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-20A-32A | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-20A-38A9 | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-20A-42A | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 42 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-28A-38A10 | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-8A-11A-28A | - | 1 |  |  | Yes | Yes | Yes | Yes | 80 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 11 |  |  | Yes | Yes |  |  |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-8A-20A-28A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 3 | Yes | Yes | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-8A-20A-38A | CA\_1A-3A  CA\_1A-8A  CA\_3A-8A | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-20A-28A-38A7 | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 20 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-20A-32A-42A | - | 1 |  |  | Yes | Yes | Yes |  | 75 | 0 |
| 3 |  |  | Yes | Yes | Yes |  |
| 20 |  |  | Yes |  |  |  |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 42 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-20A-32A-43A | - | 1 |  |  | Yes | Yes | Yes |  | 75 | 0 |
| 3 |  |  | Yes | Yes | Yes |  |
| 20 |  |  | Yes |  |  |  |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 43 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-32A-42A-43A | - | 1 |  |  | Yes | Yes | Yes |  | 90 | 0 |
| 3 |  |  | Yes | Yes | Yes |  |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 42 |  |  | Yes | Yes | Yes | Yes |
| 43 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-20A-28A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-20A-32A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-20A-38A11 | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  |  | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  |  | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-28A-32A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 28 |  | Yes | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-32A-38A12 | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-20A-28A-32A | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  | Yes | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-20A-28A-38A7,13 | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-20A-32A-38A14 | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  | Yes | Yes |  |  |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-8A-20A-32A-38A | - | 1 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_3A-7A-8A-20A-28A | - | 3 | Yes | Yes | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_3A-7A-8A-20A-38A15 | - | 3 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 7 |  |  |  | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_3A-7A-20A-28A-38A7,16 | - | 3 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_7A-8A-20A-28A-32A | - | 7 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  | Yes | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| CA\_7A-8A-20A-32A-38A17 | - | 7 |  |  | Yes | Yes | Yes | Yes | 90 | 0 |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.  NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.  NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.  NOTE 4: A terminal which supports a DL CA configuration shall support all the lower order fallback DL CA combinations and it shall support at least one bandwidth combination set for each of the constituent lower order DL combinations containing all the bandwidths specified within each specific combination set of the upper order DL combination.  NOTE 5: Uplink CA configurations are the configurations supported by the present release of specifications.  NOTE 6: If the UE supports uplink CA for corresponding downlink CA it shall support this uplink CA configuration.  NOTE 7: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].  NOTE 8: UL carrier shall be supported in Band 1, 3 or 8 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within 6dB.  NOTE 9: UL carrier shall be supported in Band 1, 3 or 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 10: UL carrier shall be supported in Band 1, 3, 8 or 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 11: UL carrier shall be supported in Bands 1, 8 and 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 12: UL carrier shall be supported in Band 1 or 8 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 13: UL carrier shall be supported in Bands 1, 20 and 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 14: UL carrier shall be supported in Band 1 or 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB].  NOTE 15: UL carrier shall be supported in Bands 3, 8 and 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 16: UL carrier shall be supported in Bands 3, 20 and 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 17: UL carrier shall be supported in Band 8 or 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]. | | | | | | | | | | |

Table 5.6A.1-2d: E-UTRA CA configurations and bandwidth combination sets defined for inter-band CA (six bands)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-UTRA CA configuration / Bandwidth combination set | | | | | | | | | | |
| E-UTRA CA Configuration | Uplink CA configurations (NOTE 5) | E-UTRA Bands | 1.4 MHz | 3 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz | Maximum aggregated bandwidth  [MHz] | Bandwidth combination set |
| CA\_1A-3A-7A-8A-20A-28A | - | 1 |  |  | Yes | Yes | Yes | Yes | 110 | 0 |
| 3 | Yes | Yes | Yes | Yes | Yes | Yes |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7A-20A-28A-38A1,2 | - | 1 |  |  | Yes | Yes | Yes | Yes | 120 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 |  |  |  | Yes | Yes | Yes |
| 20 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-3A-7C-20A-28A-38A1,2 | - | 1 |  |  | Yes | Yes | Yes | Yes | 140 | 0 |
| 3 |  |  | Yes | Yes | Yes | Yes |
| 7 | See CA\_7C Bandwidth combination set 1 in Table 5.6A.1-1 | | | | | |
| 20 |  |  |  | Yes | Yes | Yes |
| 28 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-20A-28A-32A | - | 1 |  |  | Yes | Yes | Yes | Yes | 110 | 0 |
| 7 |  |  | Yes | Yes | Yes | Yes |
| 8 | Yes | Yes | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 28 |  | Yes | Yes | Yes | Yes | Yes |
| 32 |  |  | Yes | Yes | Yes | Yes |
| CA\_1A-7A-8A-20A-32A-38A3 | - | 1 |  |  | Yes | Yes | Yes | Yes | 100 | 0 |
| 7 |  |  |  | Yes | Yes | Yes |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  |  | Yes |  |  |
| 32 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |
| NOTE 1: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].  NOTE 2: UL carrier shall be supported in Bands 1, 3, 20 and 28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]  NOTE 3: UL carrier shall be supported in Band 1, 8 or 20 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within [6dB]. | | | | | | | | | | |

<Next Changes>

**Table 6.2.5-4: ΔTIB,c (four bands)**

|  |  |  |
| --- | --- | --- |
| E-UTRA operating band combination | E-UTRA Band | ΔTIB,c [dB] |
| CA\_1-3-5-7, CA\_1-3-3-5-7, CA\_1-3-5-7-7 | 1 | 0.6 |
| 3 | 0.6 |
| 5 | 0.3 |
| 7 | 0.6 |
| CA\_1-3-5-28 | 1 | 0.3 |
| 3 | 0.3 |
| 5 | 0.5 |
| 28 | 0.6 |
| CA\_1-3-5-40 | 1 | 0.5 |
| 3 | 0.5 |
| 5 | 0.3 |
| 40 | 0.5 |
| CA\_1-3-5-41 | 1 | 0.5 |
| 3 | 0.5 |
| 5 | 0.39 |
| 41 | 0.57 |
| 0.88 |
| CA\_1-3-7-8, CA\_1-3-3-7-8, CA\_1-3-7-7-8, CA\_1-3-3-7-7-8 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 8 | 0.6 |
| CA\_1-3-7-20, CA\_1-3-3-7-20, CA\_1-3-7-7-20 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 20 | 0.3 |
| CA\_1-3-7-26, CA\_1-3-7-7-26 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 26 | 0.3 |
| CA\_1-3-7-28, CA\_1-1-3-7-28, CA\_1-1-3-3-7-28, CA\_1-3-3-7-28, CA\_1-3-7-7-28 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-7-32 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| CA\_1-3-7-38 | 1 | 0.6 |
| 3 | 0.6 |
| CA\_1-3-7-40 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.8 |
| 40 | 0.9 |
| CA\_1-3-7-42 | 1 | 0.7 |
| 3 | 0.7 |
| 7 | 0.7 |
| 42 | 0.8 |
| CA\_1-3-7-46 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| CA\_1-3-8-11 | 1 | 0.3 |
| 3 | 0.8 |
| 8 | 0.3 |
| 11 | 0.9 |
| CA\_1-3-8-20 | 1 | 0.3 |
| 3 | 0.3 |
| 8 | 0.4 |
| 20 | 0.4 |
| CA\_1-3-8-2810 | 1 | 0.3 |
| 3 | 0.3 |
| 8 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-8-38  CA\_1-3-3-8-38 | 1 | 0.5 |
| 3 | 0.5 |
| 8 | 0.3 |
| 38 | 0.5 |
| CA\_1-3-8-40 | 1 | 0.5 |
| 3 | 0.5 |
| 8 | 0.3 |
| 40 | 0.5 |
| CA\_1-3-8-41 | 1 | 0.5 |
| 3 | 0.5 |
| 8 | 0.3 |
| 41 | 0.35 |
| 0.86 |
| CA\_1-3-8-42 | 1 | 0.6 |
| 3 | 0.6 |
| 8 | 0.6 |
| 42 | 0.8 |
| CA\_1-3-11-28 | 1 | 0.3 |
| 3 | 0.8 |
| 11 | 0.9 |
| 28 | 0.6 |
| CA\_1-3-18-42 | 1 | 0.6 |
| 3 | 0.6 |
| 18 | 0.3 |
| 42 | 0.8 |
| CA\_1-3-19-21 | 1 | 0.3 |
| 3 | 0.8 |
| 19 | 0.3 |
| 21 | 0.9 |
| CA\_1-3-19-42, CA\_1-3-3-19-21 | 1 | 0.6 |
| 3 | 0.6 |
| 19 | 0.3 |
| 42 | 0.8 |
| CA\_1-3-20-28, CA\_1-3-3-20-28 | 1 | 0.3 |
| 3 | 0.3 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-20-32 | 1 | 0.5 |
| 3 | 0.5 |
| 20 | 0.3 |
| CA\_1-3-20-38 | 1 | 0.3 |
| 3 | 0.3 |
| 20 | 0.3 |
| 38 | 0.3 |
| CA\_1-3-20-42 | 1 | 0.6 |
| 3 | 0.6 |
| 20 | 0.3 |
| 42 | 0.8 |
| CA\_1-3-20-43 | 1 | 0.3 |
| 3 | 0.3 |
| 20 | 0.3 |
| 43 | 0.8 |
| CA\_1-3-21-28 | 1 | 0.3 |
| 3 | 0.8 |
| 21 | 0.9 |
| 28 | 0.6 |
| CA\_1-3-21-42 | 1 | 0.6 |
| 3 | 0.8 |
| 21 | 0.9 |
| 42 | 0.8 |
| CA\_1-3-28-38 | 1 | 0.5 |
| 3 | 0.5 |
| 28 | 0.6 |
| 38 | 0.5 |
| CA\_1-3-28-40 | 1 | 0.5 |
| 3 | 0.5 |
| 28 | 0.6 |
| 40 | 0.5 |
| CA\_1-3-28-42 | 1 | 0.6 |
| 3 | 0.6 |
| 28 | 0.6 |
| 42 | 0.8 |
| CA\_1-3-32-42 | 1 | 0.6 |
| 3 | 0.6 |
| 42 | 0.8 |
| CA\_1-3-32-43 | 1 | 0.5 |
| 3 | 0.5 |
| 43 | 0.8 |
| CA\_1-3-40-41 | 1 | 0.5 |
| 3 | 0.5 |
| 40 | 0.5 |
| 41 | 0.37/0.88 |
| CA\_1-3-41-42 | 1 | 0.6 |
| 3 | 0.6 |
| 41 | 0.5 |
| 42 | 0.8 |
| CA\_1-3-42-4313 | 1 | 0.6 |
| 3 | 0.6 |
| 42 | 0.8 |
| 43 | 0.8 |
| CA\_1-5-7-28 | 1 | 0.6 |
| 5 | 0.5 |
| 7 | 0.6 |
| 28 | 0.6 |
| CA\_1-5-7-46 | 1 | 0.5 |
| 5 | 0.3 |
| 7 | 0.6 |
| CA\_1-7-8-20 | 1 | 0.5 |
| 7 | 0.6 |
| 8 | 0.6 |
| 20 | 0.6 |
| CA\_1-7-8-28 | 1 | 0.5 |
| 7 | 0.6 |
| 8 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-8-32 | 1 | 0.7 |
| 7 | 0.7 |
| 8 | 0.6 |
| CA\_1-7-8-38 | 1 | 0.5 |
| 8 | 0.5 |
| CA\_1-7-8-40 | 1 | 0.6 |
| 7 | 0.8 |
| 8 | 0.6 |
| 40 | 0.9 |
| CA\_1-7-20-28 | 1 | 0.5 |
| 7 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-20-32 | 1 | 0.7 |
| 7 | 0.7 |
| 20 | 0.3 |
| CA\_1-7-20-38 | 1 | 0.5 |
| 20 | 0.3 |
| CA\_1-7-20-42 | 1 | 0.6 |
| 7 | 0.7 |
| 20 | 0.4 |
| 42 | 0.8 |
| CA\_1-7-28-32 | 1 | 0.7 |
| 7 | 0.7 |
| 28 | 0.6 |
| CA\_1-7-28-38 | 1 | 0.5 |
| 28 | 0.6 |
| CA\_1-7-28-40 | 1 | 0.6 |
| 7 | 0.8 |
| 28 | 0.6 |
| 40 | 0.9 |
| CA\_1-7-32-38 | 1 | 0.5 |
| CA\_1-8-11-2811 | 1 | 0.3 |
| 8 | 0.6 |
| 11 | 0.4 |
| 28 | 0.6 |
| CA\_1-8-11-42 | 1 | 0.3 |
| 8 | 0.6 |
| 11 | 0.4 |
| 42 | 0.8 |
| CA\_1-8-20-28 | 1 | 0.3 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-8-20-32 | 1 | 0.5 |
| 8 | 0.4 |
| 20 | 0.4 |
| CA\_1-8-20-38 | 1 | 0.5 |
| 8 | 0.6 |
| 20 | 0.5 |
| 38 | 0.5 |
| CA\_1-8-28-32 | 1 | 0.5 |
| 8 | 0.6 |
| 28 | 0.6 |
| CA\_1-8-32-38 | 1 | 0.5 |
| 8 | 0.3 |
| 38 | 0.5 |
| CA\_1-19-21-42 | 1 | 0.3 |
| 19 | 0.3 |
| 21 | 0.4 |
| 42 | 0.8 |
| CA\_1-20-32-42 | 1 | 0.5 |
| 20 | 0.4 |
| 42 | 0.8 |
| CA\_1-20-28-32 | 1 | 0.5 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-20-28-38 | 1 | 0.5 |
| 20 | 0.6 |
| 28 | 0.6 |
| 38 | 0.5 |
| CA\_1-20-32-38 | 1 | 0.5 |
| 20 | 0.3 |
| 38 | 0.5 |
| CA\_1-20-32-43 | 1 | 0.5 |
| 20 | 0.3 |
| 43 | 0.8 |
| CA\_1-21-28-42 | 1 | 0.3 |
| 21 | 0.4 |
| 28 | 0.6 |
| 42 | 0.8 |
| CA\_1-32-42-4313 | 1 | 0.5 |
| 42 | 0.8 |
| 43 | 0.8 |
| CA\_2-4-5-12 | 2 | 0.5 |
| 4 | 0.5 |
| 5 | 0.8 |
| 12 | 0.8 |
| CA\_2-4-5-29 | 2 | 0.5 |
| 4 | 0.5 |
| 5 | 0.5 |
| CA\_2-4-5-30 | 2 | 0.5 |
| 4 | 0.5 |
| 5 | 0.3 |
| 30 | 0.3 |
| CA\_2-4-7-12 | 2 | 0.5 |
| 4 | 0.5 |
| 7 | 0.5 |
| 12 | 0.8 |
| CA\_2-4-12-30 | 2 | 0.5 |
| 4 | 0.5 |
| 12 | 0.8 |
| 30 | 0.3 |
| CA\_2-4-29-30 | 2 | 0.5 |
| 4 | 0.5 |
| 30 | 0.3 |
| CA\_2-5-7-28 | 2 | 0.5 |
| 5 | 0.6 |
| 7 | 0.6 |
| 28 | 0.6 |
| CA\_2-5-7-66, CA\_2-2-5-7-66, CA\_2-5-7-7-66, CA\_2-5-7-66-66 | 2 | 0.5 |
| 5 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| CA\_2-5-12-66, CA\_2-2-5-12-66 | 2 | 0.5 |
| 5 | 0.8 |
| 12 | 0.5 |
| 66 | 0.8 |
| CA\_2-5-30-66, CA\_2-2-5-30-66, CA\_2-5-30-66-66 | 2 | 0.5 |
| 5 | 0.3 |
| 30 | 0.3 |
| 66 | 0.5 |
| CA\_2-5-46-66, CA\_2-5-46-66-66 | 2 | 0.5 |
| 5 | 0.3 |
| 66 | 0.5 |
| CA\_2-7-46-66 | 2 | 0.5 |
| 7 | 0.5 |
| 46 | 0 |
| 66 | 0.5 |
| CA\_2-7-13-66  CA\_2-7-7-13-66 | 2 | 0.5 |
| 7 | 0.5 |
| 13 | 0.3 |
| 66 | 0.5 |
| CA\_2-7-26-66 | 2 | 0.5 |
| 7 | 0.5 |
| 26 | 0.3 |
| 66 | 0.5 |
| CA\_2-7-28-66 | 2 | 0.5 |
| 7 | 0.5 |
| 28 | 0.6 |
| 66 | 0.5 |
| CA\_2-12-30-66, CA\_2-2-12-30-66, CA\_2-12-30-66-66 | 2 | 0.5 |
| 12 | 0.8 |
| 30 | 0.3 |
| 66 | 0.5 |
| CA\_2-13-46-66, CA\_2-13-46-66-66 | 2 | 0.5 |
| 13 | 0.3 |
| 66 | 0.5 |
| CA\_2-13-48-66, CA\_2-13-48-48-66 | 2 | 0.6 |
| 13 | 0.3 |
| 48 | 0.8 |
| 66 | 0.6 |
| CA\_2-14-30-66, CA\_2-2-14-30-66, CA\_2-14-30-66-66 | 2 | 0.5 |
| 14 | 0.3 |
| 30 | 0.3 |
| 66 | 0.5 |
| CA\_2-7-12-66, CA\_2-2-7-12-66, CA\_2-7-12-66-66 | 2 | 0.5 |
| 7 | 0.5 |
| 12 | 0.8 |
| 66 | 0.5 |
| CA\_2-7-29-66, CA\_2-7-7-29-66 | 2 | 0.5 |
| 7 | 0.5 |
| 66 | 0.5 |
| CA\_2-29-30-66 | 2 | 0.5 |
| 30 | 0.3 |
| 66 | 0.5 |
| CA\_2-46-48-66 | 2 | 0.6 |
| 48 | 0.8 |
| 66 | 0.6 |
| CA\_3-5-7-28, CA\_3-3-5-7-28 | 3 | 0.5 |
| 5 | 0.5 |
| 7 | 0.5 |
| 28 | 0.5 |
| CA\_3-7-8-20 | 3 | 0.5 |
| 7 | 0.5 |
| 8 | 0.4 |
| 20 | 0.4 |
| CA\_3-7-8-28 | 3 | 0.5 |
| 7 | 0.5 |
| 8 | 0.6 |
| 28 | 0.3 |
| CA\_3-7-8-38 | 3 | 0.5 |
| 7 | 0.5 |
| 8 | 0.5 |
| 38 | 0.5 |
| CA\_3-7-8-40 | 3 | 0.6 |
| 7 | 0.8 |
| 8 | 0.6 |
| 40 | 0.9 |
| CA\_3-7-20-28 | 3 | 0.5 |
| 7 | 0.5 |
| 20 | 0.6 |
| 28 | 0.5 |
| CA\_3-7-20-32 | 3 | 0.7 |
| 7 | 0.7 |
| 20 | 0.3 |
| CA\_3-7-20-38 | 3 | 0.5 |
| 20 | 0.3 |
| CA\_3-7-20-42 | 3 | 0.6 |
| 7 | 0.6 |
| 20 | 0.3 |
| 42 | 0.8 |
| CA\_3-7-28-38 | 3 | 0.5 |
| 7 | 0.5 |
| 28 | 0.5 |
| 38 | 0.5 |
| CA\_3-7-28-40 | 3 | 0.6 |
| 7 | 0.8 |
| 28 | 0.3 |
| 40 | 0.9 |
| CA\_3-7-32-46 | 3 | 0.7 |
| 7 | 0.7 |
| CA\_3-8-11-2812 | 3 | 0.8 |
| 8 | 0.6 |
| 11 | 0.9 |
| 28 | 0.6 |
| CA\_3-8-20-28 | 3 | 0.3 |
| 8 | 0.6 |
| 20 | 0.5 |
| 28 | 0.5 |
| CA\_3-8-20-38 | 3 | 0.5 |
| 8 | 0.6 |
| 20 | 0.5 |
| 38 | 0.5 |
| CA\_3-8-40-41 | 3 | 0.5 |
| 8 | 0.3 |
| 40 | 0.5 |
| 41 | 0.37/0.88 |
| CA\_3-19-21-42 | 3 | 0.8 |
| 19 | 0.3 |
| 21 | 0.9 |
| 42 | 0.8 |
| CA\_3-20-28-38 | 3 | 0.5 |
| 20 | 0.5 |
| 28 | 0.5 |
| 38 | 0.5 |
| CA\_3-20-32-42 | 3 | 0.6 |
| 20 | 0.4 |
| 42 | 0.8 |
| CA\_3-20-32-43 | 3 | 0.5 |
| 20 | 0.3 |
| 43 | 0.8 |
| CA\_3-21-28-42 | 3 | 0.8 |
| 21 | 0.9 |
| 28 | 0.5 |
| 42 | 0.8 |
| CA\_3-28-41-42 | 3 | 1 |
| 28 | 0.5 |
| 41 | 0.37/0.88 |
| 42 | 0.8 |
| CA\_3-32-42-4313 | 3 | 0.6 |
| 42 | 0.8 |
| 43 | 0.8 |
| CA\_7-8-20-28 | 7 | 0.3 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_7-8-20-32 | 7 | 0.7 |
| 8 | 0.6 |
| 20 | 0.6 |
| CA\_7-8-20-38 | 8 | 0.6 |
| 20 | [0.6] |
| CA\_7-8-28-32 | 7 | 0.7 |
| 8 | 0.6 |
| 28 | 0.3/0.514 |
| CA\_7-8-32-38 | 7 | 0.7 |
| 8 | 0.6 |
| 38 | 0.5 |
| CA\_7-20-28-38 | 7 | 0.3 |
| 20 | 0.6 |
| 28 | 0.6 |
| 38 | 0.3 |
| CA\_7-20-28-32 | 7 | 0.7 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_7-20-32-38 | 20 | 0.3 |
| CA\_8-20-28-32 | 8 | 0.6 |
| 20 | 0.5 |
| 28 | 0.5 |
| CA\_8-20-32-38 | 8 | 0.4 |
| 20 | 0.4 |
| 38 | 0.3 |
| NOTE 1: The above additional tolerances are only applicable for the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 2: The above additional tolerances also apply in non-aggregated operation for the supported E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 3: Tolerances for a UE supporting multiple 4DL inter-band CA configurations are FFS.  NOTE 4: The above additional tolerances applicable for the E-UTRA operating bands that belong to the supported highest order inter-band carrier aggregation configuration, also applies to the same E-UTRA operating bands that belong to a supported lower order CA configuration.  NOTE 5: For UE supporting E-UTRA band 65 and CA configurations including Band 1, the Band 65 ΔTIB,c is the max(Band 65 ΔTIB,c , Band 1 ΔTIB,c).  NOTE 6: For UE supporting E-UTRA band 42, 43 or 48 and CA configurations including Band 42, 43 or 48, the applicable ΔTIB,c in Band 42, 43, or 48 is the max(Band 42 ΔTIB,c , Band 43 ΔTIB,c, Band 48 ΔTIB,c).  NOTE 7: The requirement is applied for UE transmitting on the frequency range of 2545-2690MHz.  NOTE 8: The requirement is applied for UE transmitting on the frequency range of 2496-2545MHz.  NOTE 9: The values in the table reflect what can be achieved with the present state of the art technology. They shall be reconsidered when the state of the art technology progresses.  NOTE 10: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 1, Band 3 or Band 8.  NOTE 11: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 1, Band 8 or Band 11.  NOTE 12: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 3, Band 8 or Band 11.  NOTE 13: Applicable for UE supporting inter-band carrier aggregation without simultaneous Rx/Tx among TDD bands.  NOTE 14: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 8. | | |

Table 6.2.5-5: ΔTIB,c (five bands)

|  |  |  |
| --- | --- | --- |
| E-UTRA operating band combination | E-UTRA Band | ΔTIB,c [dB] |
| CA\_1-3-5-7-28 | 1 | 0.6 |
| 3 | 0.6 |
| 5 | 0.5 |
| 7 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-7-8-20 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 8 | 0.6 |
| 20 | 0.6 |
| CA\_1-3-7-8-28 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 8 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-7-8-38 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0 |
| 8 | 0.6 |
| 38 | 0 |
| CA\_1-3-7-8-40 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.8 |
| 8 | 0.3 |
| 40 | 0.9 |
| CA\_1-3-7-20-28 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-7-20-32 | 1 | 0.7 |
| 3 | 0.7 |
| 7 | 0.7 |
| 20 | 0.3 |
| CA\_1-3-7-20-38 | 1 | 0.6 |
| 3 | 0.6 |
| 20 | 0.3 |
| CA\_1-3-7-20-42 | 1 | 0.7 |
| 3 | 0.7 |
| 7 | 0.7 |
| 20 | 0.3 |
| 42 | 0.8 |
| CA\_1-3-7-28-38 | 1 | 0.6 |
| 3 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-8-11-28 | 1 | 0.3 |
| 3 | 0.8 |
| 8 | 0.6 |
| 11 | 0.9 |
| 28 | 0.6 |
| CA\_1-3-8-20-28 | 1 | 0.3 |
| 3 | 0.3 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-8-20-38 | 1 | 0.5 |
| 3 | 0.5 |
| 8 | 0.4 |
| 20 | 0.4 |
| 38 | 0.5 |
| CA\_1-3-20-28-38 | 1 | 0.3 |
| 3 | 0.3 |
| 20 | 0.6 |
| 28 | 0.6 |
| 38 | 0.3 |
| CA\_1-3-20-32-42 | 1 | 0.6 |
| 3 | 0.6 |
| 20 | 0.4 |
| 42 | 0.8 |
| CA\_1-3-20-32-43 | 1 | 0.5 |
| 3 | 0.5 |
| 20 | 0.3 |
| 43 | 0.8 |
| CA\_1-3-32-42-43 | 1 | 0.6 |
| 3 | 0.6 |
| 42 | 0.8 |
| 43 | 0.8 |
| CA\_1-7-8-20-28 | 1 | 0.5 |
| 7 | 0.6 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-8-20-32 | 1 | 0.7 |
| 7 | 0.7 |
| 8 | 0.6 |
| 20 | 0.6 |
| CA\_1-7-8-20-38 | 1 | 0.5 |
| 8 | 0.6 |
| 20 | 0.6 |
| CA\_1-7-8-28-32 | 1 | 0.5 |
| 7 | 0.7 |
| 8 | 0.6 |
| 28 | 0.3/0.55 |
| CA\_1-7-8-32-38 | 1 | 0.7 |
| 8 | 0.6 |
| CA\_1-7-20-28-32 | 1 | 0.7 |
| 7 | 0.7 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-20-28-38 | 1 | 0.5 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-20-32-38 | 1 | 0.7 |
| 20 | 0.3 |
| CA\_1-8-20-32-38 | 1 | 0.5 |
| 8 | 0.6 |
| 20 | 0.5 |
| 38 | 0.5 |
| CA\_3-7-8-20-28 | 3 | 0.5 |
| 7 | 0.5 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.5 |
| CA\_3-7-8-20-38 | 3 | 0.5 |
| 8 | 0.6 |
| 20 | 0.5 |
| CA\_3-7-20-28-38 | 3 | 0.5 |
| 20 | 0.6 |
| 28 | 0.5 |
| CA\_7-8-20-28-32 | 7 | 0.7 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.5 |
| CA\_7-8-20-32-38 | 8 | 0.6 |
| 20 | 0.6 |
| NOTE 1: The above additional tolerances are only applicable for the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 2: The above additional tolerances also apply in non-aggregated operation for the supported E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 3: Tolerances for a UE supporting multiple 5DL inter-band CA configurations are FFS.  NOTE 4: The above additional tolerances applicable for the E-UTRA operating bands that belong to the supported highest order inter-band carrier aggregation configuration, also applies to the same E-UTRA operating bands that belong to a supported lower order CA configuration.  NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 8. | | |

NOTE: The above additional tolerances do not apply to supported UTRA operating bands with frequency range below 1 GHz that correspond to the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations when such bands are belonging only to band combination(s) where one band is <1GHz and other bands are >1.7GHz and there is no harmonic relationship between the low band UL and high band DL. Otherwise the above additional tolerances also apply to supported UTRA operating bands that correspond to the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.

Table 6.2.5-6: ΔTIB,c (six bands)

|  |  |  |
| --- | --- | --- |
| E-UTRA operating band combination | E-UTRA Band | ΔTIB,c [dB] |
| CA\_1-3-7-8-20-28 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-3-7-20-28-38 | 1 | 0.6 |
| 3 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-8-20-28-32 | 1 | 0.7 |
| 7 | 0.7 |
| 8 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| CA\_1-7-8-20-32-38 | 1 | 0.7 |
| 8 | 0.6 |
| 20 | 0.6 |

<Next Changes>

Table 7.3.1-1C: ΔRIB,c (four bands)

|  |  |  |
| --- | --- | --- |
| E-UTRA operating band combination | E-UTRA Band | ΔRIB,c [dB] |
| CA\_1-3-5-7, CA\_1-3-3-5-7, CA\_1-3-5-7-7 | 1 | 0 |
| 3 | 0 |
| 5 | 0 |
| 7 | 0 |
| CA\_1-3-5-28 | 1 | 0 |
| 3 | 0 |
| 5 | 0.1 |
| 28 | 0.2 |
| CA\_1-3-5-40 | 1 | 0 |
| 3 | 0 |
| 5 | 0 |
| 40 | 0 |
| CA\_1-3-5-41 | 1 | 0 |
| 3 | 0 |
| 5 | 0 |
| 41 | 06 |
| 0.57 |
| CA\_1-3-7-8, CA\_1-3-3-7-8, CA\_1-3-7-7-8, CA\_1-3-3-7-7-8 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| CA\_1-3-7-20, CA\_1-3-3-7-20, CA\_1-3-7-7-20 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 20 | 0 |
| CA\_1-3-7-26, CA\_1-3-7-7-26 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 26 | 0 |
| CA\_1-3-7-28, CA\_1-1-3-7-28, CA\_1-1-3-3-7-28, CA\_1-3-3-7-28, CA\_1-3-7-7-28 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| CA\_1-3-7-32 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 32 | 0 |
| CA\_1-3-7-38 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 38 | 0 |
| CA\_1-3-7-40 | 1 | 0 |
| 3 | 0 |
| 7 | 0.3 |
| 40 | 0.8 |
| CA\_1-3-7-42 | 1 | 0.3 |
| 3 | 0.3 |
| 7 | 0.3 |
| 42 | 0.5 |
| CA\_1-3-7-46 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 46 | 0 |
| CA\_1-3-8-11 | 1 | 0 |
| 3 | 0.3 |
| 8 | 0 |
| 11 | 0.5 |
| CA\_1-3-8-20 | 1 | 0 |
| 3 | 0 |
| 8 | 0 |
| 20 | 0 |
| CA\_1-3-8-288 | 1 | 0 |
| 3 | 0 |
| 8 | 0.2 |
| 28 | 0.2 |
| CA\_1-3-8-38  CA\_1-3-3-8-38 | 1 | 0 |
| 3 | 0 |
| 8 | 0 |
| 38 | 0 |
| CA\_1-3-11-28 | 1 | 0 |
| 3 | 0.3 |
| 11 | 0.5 |
| 28 | 0.2 |
| CA\_1-3-8-40 | 1 | 0 |
| 3 | 0 |
| 8 | 0 |
| 40 | 0 |
| CA\_1-3-8-41 | 1 | 0 |
| 3 | 0 |
| 8 | 0 |
| 41 | 05 |
| 0.56 |
| CA\_1-3-8-42 | 1 | 0.2 |
| 3 | 0.2 |
| 8 | 0.2 |
| 42 | 0.5 |
| CA\_1-3-18-42 | 1 | 0.2 |
| 3 | 0.2 |
| 18 | 0 |
| 42 | 0.5 |
| CA\_1-3-19-21 | 1 | 0 |
| 3 | 0.3 |
| 19 | 0 |
| 21 | 0.5 |
| CA\_1-3-19-42, CA\_1-3-3-19-21 | 1 | 0.2 |
| 3 | 0.2 |
| 19 | 0 |
| 42 | 0.5 |
| CA\_1-3-20-28, CA\_1-3-3-20-28 | 1 | 0 |
| 3 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-3-20-32 | 1 | 0 |
| 3 | 0 |
| 20 | 0 |
| 32 | 0 |
| CA\_1-3-20-38 | 1 | 0 |
| 3 | 0 |
| 20 | 0 |
| 38 | 0 |
| CA\_1-3-20-42 | 1 | 0.2 |
| 3 | 0.2 |
| 20 | 0 |
| 42 | 0.5 |
| CA\_1-3-20-43 | 1 | 0 |
| 3 | 0 |
| 20 | 0 |
| 43 | 0.5 |
| CA\_1-3-21-28 | 1 | 0 |
| 3 | 0.3 |
| 21 | 0.5 |
| 28 | 0.2 |
| CA\_1-3-21-42 | 1 | 0.2 |
| 3 | 0.3 |
| 21 | 0.5 |
| 42 | 0.5 |
| CA\_1-3-28-38 | 1 | 0 |
| 3 | 0 |
| 28 | 0.2 |
| 38 | 0.2 |
| CA\_1-3-28-40 | 1 | 0 |
| 3 | 0 |
| 28 | 0.2 |
| 40 | 0 |
| CA\_1-3-28-42 | 1 | 0.2 |
| 3 | 0.2 |
| 28 | 0.2 |
| 42 | 0.5 |
| CA\_1-3-32-42 | 1 | 0.2 |
| 3 | 0.2 |
| 32 | 0 |
| 42 | 0.5 |
| CA\_1-3-32-43 | 1 | 0 |
| 3 | 0 |
| 32 | 0 |
| 43 | 0.5 |
| CA\_1-3-40-41 | 1 | 0 |
| 3 | 0 |
| 40 | 0 |
| 41 | 06/0.57 |
| CA\_1-3-41-42 | 1 | 0.2 |
| 3 | 0.2 |
| 41 | 0 |
| 42 | 0.5 |
| CA\_1-3-42-4311 | 1 | 0.2 |
| 3 | 0.2 |
| 42 | 0.5 |
| 43 | 0.5 |
| CA\_1-5-7-28 | 1 | 0 |
| 5 | 0.1 |
| 7 | 0 |
| 28 | 0.2 |
| CA\_1-5-7-46 | 1 | 0 |
| 5 | 0 |
| 7 | 0 |
| CA\_1-7-8-20 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| CA\_1-7-8-28 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 28 | 0.2 |
| CA\_1-7-8-32 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 32 | 0 |
| CA\_1-7-8-38 | 1 | 0 |
| 7 | 0 |
| 8 | 0 |
| 38 | 0.2 |
| CA\_1-7-8-40 | 1 | 0 |
| 7 | 0.3 |
| 8 | 0.2 |
| 40 | 0.8 |
| CA\_1-7-20-28 | 1 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-7-20-32 | 1 | 0 |
| 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| CA\_1-7-20-38 | 1 | 0 |
| 7 | 0 |
| 20 | 0 |
| 38 | 0.2 |
| CA\_1-7-20-42 | 1 | 0.2 |
| 7 | 0.2 |
| 20 | 0.2 |
| 42 | 0.5 |
| CA\_1-7-28-32 | 1 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_1-7-28-38 | 1 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| 38 | 0.2 |
| CA\_1-7-28-40 | 1 | 0 |
| 7 | 0.3 |
| 28 | 0.2 |
| 40 | 0.8 |
| CA\_1-7-32-38 | 1 | 0 |
| 7 | 0 |
| 32 | 0 |
| 38 | 0.2 |
| CA\_1-8-11-289 | 1 | 0 |
| 8 | 0.2 |
| 11 | 0 |
| 28 | 0.2 |
| CA\_1-8-11-42 | 1 | 0 |
| 8 | 0.2 |
| 11 | 0 |
| 42 | 0.5 |
| CA\_1-8-20-28 | 1 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-8-20-32 | 1 | 0 |
| 8 | 0 |
| 20 | 0 |
| 32 | 0 |
| CA\_1-8-20-38 | 1 | 0 |
| 8 | 0 |
| 20 | 0 |
| 38 | 0 |
| CA\_1-8-28-32 | 1 | 0 |
| 8 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_1-8-32-38 | 1 | 0 |
| 8 | 0 |
| 32 | 0 |
| 38 | 0 |
| CA\_1-19-21-42 | 1 | 0 |
| 19 | 0 |
| 21 | 0 |
| 42 | 0.5 |
| CA\_1-20-28-32 | 1 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_1-20-28-38 | 1 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 38 | 0 |
| CA\_1-20-32-38 | 1 | 0 |
| 20 | 0 |
| 32 | 0 |
| 38 | 0 |
| CA\_1-20-32-42 | 1 | 0 |
| 20 | 0 |
| 32 | 0 |
| 42 | 0.5 |
| CA\_1-20-32-43 | 1 | 0 |
| 20 | 0 |
| 32 | 0 |
| 43 | 0.5 |
| CA\_1-21-28-42 | 1 | 0 |
| 21 | 0 |
| 28 | 0.2 |
| 42 | 0.5 |
| CA\_1-32-42-4311 | 1 | 0 |
| 32 | 0 |
| 42 | 0.5 |
| 43 | 0.5 |
| CA\_2-4-5-12 | 2 | 0.3 |
| 4 | 0.3 |
| 5 | 0.5 |
| 12 | 0.5 |
| CA\_2-4-5-29 | 2 | 0.3 |
| 4 | 0.3 |
| 5 | 0 |
| CA\_2-4-5-30 | 2 | 0.4 |
| 4 | 0.4 |
| 5 | 0 |
| 30 | 0.5 |
| CA\_2-4-7-12 | 2 | 0.3 |
| 4 | 0.3 |
| 7 | 0.5 |
| 12 | 0.5 |
| CA\_2-4-12-30 | 2 | 0.4 |
| 4 | 0.4 |
| 12 | 0.5 |
| 30 | 0.5 |
| CA\_2-4-29-30 | 2 | 0.4 |
| 4 | 0.4 |
| 30 | 0.5 |
| CA\_2-5-7-28 | 2 | 0 |
| 5 | 0.2 |
| 7 | 0 |
| 28 | 0.2 |
| CA\_2-5-7-66, CA\_2-2-5-7-66, CA\_2-5-7-7-66, CA\_2-5-7-66-66 | 2 | 0.3 |
| 5 | 0 |
| 7 | 0.5 |
| 66 | 0.5 |
| CA\_2-5-12-66, CA\_2-2-5-12-66 | 2 | 0.3 |
| 5 | 0.5 |
| 12 | 0.5 |
| 66 | 0.3 |
| CA\_2-5-30-66, CA\_2-2-5-30-66, CA\_2-5-30-66-66 | 2 | 0.4 |
| 5 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| CA\_2-5-46-66, CA\_2-5-46-66-66 | 2 | 0.3 |
| 5 | 0 |
| 66 | 0.3 |
| CA\_2-7-12-66, CA\_2-2-7-12-66, CA\_2-7-12-66-66 | 2 | 0.3 |
| 7 | 0.5 |
| 12 | 0.5 |
| 66 | 0.3 |
| CA\_2-7-13-66  CA\_2-7-7-13-66 | 2 | 0.3 |
| 7 | 0.5 |
| 13 | 0 |
| 66 | 0.5 |
| CA\_2-7-26-66 | 2 | 0.3 |
| 7 | 0.5 |
| 26 | 0 |
| 66 | 0.5 |
| CA\_2-7-28-66 | 2 | 0.3 |
| 7 | 0.5 |
| 28 | 0.2 |
| 66 | 0.5 |
| CA\_2-7-29-66, CA\_2-7-7-29-66 | 2 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| CA\_2-7-46-66 | 2 | 0.3 |
| 7 | 0.5 |
| 46 | 0 |
| 66 | 0.5 |
| CA\_2-12-30-66, CA\_2-2-12-30-66, CA\_2-12-30-66-66 | 2 | 0.4 |
| 12 | 0.5 |
| 30 | 0.5 |
| 66 | 0.4 |
| CA\_2-13-46-66, CA\_2-13-46-66-66 | 2 | 0.3 |
| 13 | 0 |
| 66 | 0.3 |
| CA\_2-13-48-66, CA\_2-13-48-48-66 | 2 | 0.3 |
| 13 | 0 |
| 48 | 0.5 |
| 66 | 0.3 |
| CA\_2-14-30-66, CA\_2-2-14-30-66, CA\_2-14-30-66-66 | 2 | 0.4 |
| 14 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| CA\_2-29-30-66 | 2 | 0.4 |
| 30 | 0.5 |
| 66 | 0.4 |
| CA\_2-46-48-66 | 2 | 0.3 |
| 48 | 0.5 |
| 66 | 0.3 |
| CA\_3-5-7-28, CA\_3-3-5-7-28 | 3 | 0 |
| 5 | 0.1 |
| 7 | 0 |
| 28 | 0.1 |
| CA\_3-7-8-20 | 3 | 0 |
| 7 | 0 |
| 8 | 0 |
| 20 | 0 |
| CA\_3-7-8-28 | 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 28 | 0.1 |
| CA\_3-7-8-38 | 3 | 0 |
| 7 | 0 |
| 8 | 0 |
| 38 | 0.2 |
| CA\_3-7-8-40 | 3 | 0 |
| 7 | 0.3 |
| 8 | 0.2 |
| 40 | 0.8 |
| CA\_3-7-20-28 | 3 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.1 |
| CA\_3-7-20-32 | 3 | 0 |
| 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| CA\_3-7-20-38 | 3 | 0 |
| 7 | 0 |
| 20 | 0 |
| 38 | 0 |
| CA\_3-7-20-42 | 3 | 0.2 |
| 7 | 0.2 |
| 20 | 0 |
| 42 | 0.5 |
| CA\_3-7-28-38 | 3 | 0 |
| 7 | 0 |
| 28 | 0 |
| 38 | 0.2 |
| CA\_3-7-28-40 | 3 | 0 |
| 7 | 0.3 |
| 28 | 0 |
| 40 | 0.8 |
| CA\_3-7-32-46 | 3 | 0 |
| 7 | 0 |
| 32 | 0 |
| CA\_3-8-11-2810 | 3 | 0.3 |
| 8 | 0.2 |
| 11 | 0.5 |
| 28 | 0.2 |
| CA\_3-8-20-28 | 3 | 0 |
| 8 | 0.2 |
| 20 | 0.1 |
| 28 | 0.1 |
| CA\_3-8-20-38 | 3 | 0 |
| 8 | 0 |
| 20 | 0 |
| 38 | 0 |
| CA\_3-8-40-41 | 3 | 0 |
| 8 | 0 |
| 40 | 0 |
| 41 | 06/0.57 |
| CA\_3-19-21-42 | 3 | 0.3 |
| 19 | 0 |
| 21 | 0.5 |
| 42 | 0.5 |
| CA\_3-20-28-38 | 3 | 0 |
| 20 | 0.1 |
| 28 | 0.2 |
| 38 | 0.2 |
| CA\_3-20-32-42 | 3 | 0.2 |
| 20 | 0 |
| 32 | 0 |
| 42 | 0.5 |
| CA\_3-20-32-43 | 3 | 0 |
| 20 | 0 |
| 32 | 0 |
| 43 | 0.5 |
| CA\_3-21-28-42 | 3 | 0.3 |
| 21 | 0.5 |
| 28 | 0.2 |
| 42 | 0.5 |
| CA\_3-28-41-42 | 3 | 0.5 |
| 28 | 0.2 |
| 41 | 0.46/0.57 |
| 42 | 0.5 |
| CA\_3-32-42-4311 | 3 | 0.2 |
| 32 | 0 |
| 42 | 0.5 |
| 43 | 0.5 |
| CA\_7-8-20-28 | 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_7-8-20-32 | 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 32 | 0 |
| CA\_7-8-20-38 | 7 | 0 |
| 8 | 0.2 |
| 20 | [0.2] |
| 38 | 0.2 |
| CA\_7-8-28-32 | 7 | 0 |
| 8 | 0.2/0.112 |
| 28 | 0 |
| 32 | 0 |
| CA\_7-8-32-38 | 7 | 0 |
| 8 | 0.2 |
| 32 | 0 |
| 38 | 0.2 |
| CA\_7-20-28-32 | 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_7-20-28-38 | 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 38 | 0.2 |
| CA\_7-20-32-38 | 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| 38 | 0.2 |
| CA\_8-20-28-32 | 8 | 0 |
| 20 | 0 |
| 28 | 0 |
| 32 | 0 |
| CA\_8-20-32-38 | 8 | 0 |
| 20 | 0 |
| 32 | 0 |
| 38 | 0 |
| NOTE 1: The above additional tolerances are only applicable for the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 2: The above additional tolerances also apply in intra-band and non-aggregated operation for the supported E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 3: Tolerances for a UE supporting multiple 4DL inter-band CA configurations are FFS.  NOTE 4: The above additional tolerances applicable for the E-UTRA operating bands that belong to the supported highest order inter-band carrier aggregation configuration, also applies to the same E-UTRA operating bands that belong to a supported lower order CA configuration.  NOTE 5: For UE supporting E-UTRA band 42, 43 or 48 and CA configurations including Band 42, 43 or 48, the applicable ΔRIB,c in Band 42, 43, or 48 is the max(Band 42 ΔRIB,c , Band 43 ΔRIB,c, Band 48 ΔRIB,c).  NOTE 6: The requirement is applied for UE transmitting on the frequency range of 2545-2690MHz.  NOTE 7: The requirement is applied for UE transmitting on the frequency range of 2496-2545MHz.  NOTE 8: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 1, Band 3 or Band 8.  NOTE 9: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 1, Band 8 or Band 11.  NOTE 10: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 3, Band 8 or Band 11.  NOTE 11: Applicable for UE supporting inter-band carrier aggregation without simultaneous Rx/Tx among TDD bands.  NOTE 12: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 8. | | |

Table 7.3.1-1D: ΔRIB,c (five bands)

|  |  |  |
| --- | --- | --- |
| E-UTRA operating band combination | E-UTRA Band | ΔRIB,c [dB] |
| CA\_1-3-5-7-28 | 1 | 0 |
| 3 | 0 |
| 5 | 0.1 |
| 7 | 0 |
| 28 | 0.2 |
| CA\_1-3-7-8-20 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| CA\_1-3-7-8-28 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 28 | 0.2 |
| CA\_1-3-7-8-38 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 8 | 0 |
| 38 | 0 |
| CA\_1-3-7-8-40 | 1 | 0 |
| 3 | 0 |
| 7 | 0.3 |
| 8 | 0 |
| 40 | 0.8 |
| CA\_1-3-7-20-28 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-3-7-20-32 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| CA\_1-3-7-20-38 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 20 | 0 |
| 38 | 0 |
| CA\_1-3-7-20-42 | 1 | 0.2 |
| 3 | 0.2 |
| 7 | 0.2 |
| 20 | 0 |
| 42 | 0.5 |
| CA\_1-3-7-28-38 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| 38 | 0 |
| CA\_1-3-8-11-28 | 1 | 0 |
| 3 | 0.3 |
| 8 | 0.2 |
| 11 | 0.5 |
| 28 | 0.2 |
| CA\_1-3-8-20-28 | 1 | 0 |
| 3 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-3-8-20-38 | 1 | 0 |
| 3 | 0 |
| 8 | 0 |
| 20 | 0 |
| 38 | 0 |
| CA\_1-3-20-28-38 | 1 | 0 |
| 3 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 38 | 0 |
| CA\_1-3-20-32-42 | 1 | 0.2 |
| 3 | 0.2 |
| 20 | 0 |
| 32 | 0 |
| 42 | 0.5 |
| CA\_1-3-20-32-43 | 1 | 0 |
| 3 | 0 |
| 20 | 0 |
| 32 | 0 |
| 43 | 0.5 |
| CA\_1-3-32-42-43 | 1 | 0.2 |
| 3 | 0.2 |
| 32 | 0 |
| 42 | 0.5 |
| 43 | 0.5 |
| CA\_1-7-8-20-28 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-7-8-20-32 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 32 | 0 |
| CA\_1-7-8-20-38 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 38 | 0.2 |
| CA\_1-7-8-28-32 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 28 | 0/0.15 |
| 32 | 0 |
| CA\_1-7-8-32-38 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 32 | 0 |
| 38 | 0.2 |
| CA\_1-7-20-28-32 | 1 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_1-7-20-28-38 | 1 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 38 | 0.2 |
| CA\_1-7-20-32-38 | 1 | 0 |
| 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| 38 | 0 |
| CA\_1-8-20-32-38 | 1 | 0 |
| 8 | 0 |
| 20 | 0 |
| 32 | 0 |
| 38 | 0 |
| CA\_3-7-8-20-28 | 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 28 | 0.1 |
| CA\_3-7-8-20-38 | 3 | 0 |
| 7 | 0 |
| 8 | 0 |
| 20 | 0 |
| 38 | 0.2 |
| CA\_3-7-20-28-38 | 3 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.1 |
| 38 | 0.2 |
| CA\_7-8-20-28-32 | 7 | 0 |
| 8 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_7-8-20-32-38 | 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 32 | 0 |
| 38 | 0 |
| NOTE 1: The above additional tolerances are only applicable for the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 2: The above additional tolerances also apply in intra-band and non-aggregated operation for the supported E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.  NOTE 3: Tolerances for a UE supporting multiple 5DL inter-band CA configurations are FFS.  NOTE 4: The above additional tolerances applicable for the E-UTRA operating bands that belong to the supported highest order inter-band carrier aggregation configuration, also applies to the same E-UTRA operating bands that belong to a supported lower order CA configuration.  NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with the uplink active in Band 8. | | |

NOTE : The above additional tolerances do not apply to supported UTRA operating bands with frequency range below 1 GHz that correspond to the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations when such bands are belonging only to band combination(s) where one band is <1GHz and other bands are >1.7GHz and there is no harmonic relationship between the low band UL and high band DL. Otherwise the above additional tolerances also apply to supported UTRA operating bands that correspond to the E-UTRA operating bands that belong to the supported inter-band carrier aggregation configurations.

Table 7.3.1-1E: ΔRIB,c (six bands)

|  |  |  |
| --- | --- | --- |
| E-UTRA operating band combination | E-UTRA Band | ΔRIB,c [dB] |
| CA\_1-3-7-8-20-28 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 28 | 0.2 |
| CA\_1-3-7-20-28-38 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 38 | 0 |
| CA\_1-7-8-20-28-32 | 1 | 0 |
| 7 | 0 |
| 8 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| CA\_1-7-8-20-32-38 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| 32 | 0 |
| 38 | 0 |

< End of changes>