**3GPP TSG-RAN WG4 Meeting # 106 *R4-2302553***

**Athens, Greece, Feb 27 – Mar 3, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.101-1** | **CR** | **1439** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *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:*** | Big CR to reflect the completed NR inter-band CA DC combinations for 3 bands DL with up to 2 bands UL into TS 38.101-1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Completed inter-band CA combinations for 3DL with up to 2 bands UL are introduced into TS 38.101-1 from RAN4#106 meeting. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The following approved contributions of inter-band CA for 3 bands DL with up to 2 bands UL are added from RAN4 #106.   1. R4-2300151, , SoftBank Corp. 2. R4-2300416, CA\_n25-n71-n77 CA\_n41-n66-n71 CA\_n66-n71-n77, Nokia, T-Mobile USA 3. R4-2300540, Draft CR 38.101-1 to add DC\_n1A-n3A-n67A, Ericsson, BT 4. R4-2300666, DraftCR for 38.101-1: NR inter-band CA DC combinations for 3 bands DL with 2 bands UL, Verizon, Samsung, Ericsson 5. R4-2301067, CR for corrections for three bands NR CA, Ericsson 6. R4-2301072, draft CR to add new configurations for CA\_n1-n3-n78, CA\_n1-n7-n78, CA\_n1-n28-n78, CA\_n20-n28-n78, Ericsson 7. R4-2301076, draft CR to add new BCS’s for CA\_n1-n3-n77, CA\_n1-n28-n40, CA\_n1-n28-n77, CA\_n3-n28-n40 and CA\_n3-n28-n77, Ericsson 8. R4-2301508, draft CR 38.101-1 to add new band combinations, Ericsson, AT&T 9. R4-2301687, draftCR additions to 3CA combinations of n2 n29 n66 n77, Nokia, AT&T 10. R4-2302039, Draft CR for TS 38.101-1 to introduce CA\_n3A-n28A-n78C CA\_n3A-n7A-n78C CA\_n7A-n28A-n78C, Huawei, HiSilicon 11. R4-2302444, Draft CR for 38.101-1: 3BDL/xBUL NR CA correction, 12. R4-2302512, draft CR for CA\_n1A-n3A-n7A, CA\_n3A-n7A-n78A 3DL/2UL, CHTTL 13. R4-2303598, Draft CR 38.101-1 to add CA\_n1A/n3A/n7A/n7B-n26A-n78(2A), Ericsson, Telstra 14. R4-2301075, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm): CA\_n1-n3-n40, Ericsson 15. R4-2301077, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm): CA\_n1-n40-n77, Ericsson 16. R4-2301078, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm): CA\_n3-n40-n77, Ericsson 17. R4-2301079, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm): CA\_n28-n40-n77, Ericsson 18. R4-2302499, TP for TR 38.718-03-01: support of CA\_n1-n3-n8 2UL/3DL, CHTTL 19. R4-2303599, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm): CA\_n3-n7-n67 and DC\_n3-n7-n67, Ericsson, BT 20. R4-2303600, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm) to include CA\_n3-n67-n78 and DC\_n3-n67-n78, Ericsson, BT 21. R4-2303601, TP for TR [38.718-03-01](https://www.3gpp.org/DynaReport/38718-02-01.htm): CA\_n3A-n20A-n28A, Ericsson, BT 22. R4-2303603, TP for TR 38.718-03-01 to introduce CA\_n3A-n7A-n79A\_BCS0, Huawei, HiSilicon | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The requirements for above band combinations are incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2A.2.2, 5.5A.3.2, 5.5B, 6.2A.4.2.4, 7.3A.3.2.3, 7.3A.4, 7.3A.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS/TR ... CR ... 38.521-1 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

### *<< Start of changes >>*

#### 5.2A.2.2 Inter-band CA (three bands)

Table 5.2A.2.2-1: Inter-band CA operating bands involving FR1 (three bands)

|  |  |  |
| --- | --- | --- |
| NR CA Band | NR Band  (Table 5.2-1) | DL interruption allowed  (Note 4) |
| CA\_n1-n3-n5 | n1, n3, n5 |  |
| CA\_n1-n3-n7 | n1, n3, n7 |  |
| CA\_n1-n3-n8 | n1, n3, n8 |  |
| CA\_n1-n3-n18 | n1, n3, n18 |  |
| CA\_n1-n3-n20 | n1, n3, n20 |  |
| CA\_n1-n3-n26 | n1, n3, n26 |  |
| CA\_n1-n3-n28 | n1, n3, n28 |  |
| CA\_n1-n3-n38 | n1, n3, n38 |  |
| CA\_n1-n3-n40 | n1, n3, n40 |  |
| CA\_n1-n3-n413 | n1, n3, n41 |  |
| CA\_n1-n3-n77 | n1, n3, n77 |  |
| CA\_n1-n3-n783 | n1, n3, n78 | No for CA\_n1-n78, CA\_n3-n78 |
| CA\_n1-n3-n793 | n1, n3, n79 |  |
| CA\_n1-n5-n7 | n1, n5, n7 |  |
| CA\_n1-n5-n28 | n1, n5, n28 |  |
| CA\_n1-n5-n78 | n1, n5, n78 |  |
| CA\_n1-n7-n8 | n1, n7, n8 |  |
| CA\_n1-n7-n28 | n1, n7, n28 |  |
| CA\_n1-n7-n38 | n1, n7, n38 |  |
| CA\_n1-n7-n40 | n1, n7, n40 |  |
| CA\_n1-n7-n783 | n1, n7, n78 |  |
| CA\_n1-n7-n79 | n1, n7, n79 |  |
| CA\_n1-n8-n28 | n1, n8, n28 |  |
| CA\_n1-n8-n40 | n1, n8, n40 |  |
| CA\_n1-n8-n77 | n1, n8, n77 |  |
| CA\_n1-n8-n783 | n1, n8, n78 |  |
| CA\_n1-n8-n79 | n1, n8, n79 |  |
| CA\_n1-n18-n28 | n1, n18, n28 |  |
| CA\_n1-n18-n41 | n1, n18, n41 |  |
| CA\_n1-n18-n77 | n1, n18, n77 |  |
| CA\_n1-n20-n67 | n1, n20, n67 |  |
| CA\_n1-n20-n78 | n1, n20, n78 |  |
| CA\_n1-n26-n78 | n1, n26, n78 |  |
| CA\_n1-n28-n38 | n1, n28, n38 |  |
| CA\_n1-n28-n40 | n1, n28, n40 |  |
| CA\_n1-n28-n413 | n1, n28, n41 |  |
| CA\_n1-n28-n773 | n1, n28, n77 |  |
| CA\_n1-n28-n793 | n1, n28, n79 |  |
| CA\_n1-n28-n783 | n1, n28, n78 |  |
| CA\_n1-n38-n78 | n1, n38, n78 |  |
| CA\_n1-n40-n77 | n1, n40, n77 |  |
| CA\_n1-n40-n78 | n1, n40, n78 |  |
| CA\_n1-n41-n773 | n1, n41, n77 |  |
| CA\_n1-n41-n79 | n1, n41, n79 |  |
| CA\_n1-n77-n79 | n1, n77, n79 |  |
| CA\_n1-n78-n79 | n1, n78, n79 |  |
| CA\_n2-n5-n30 | n2, n5, n30 |  |
| CA\_n2-n5-n48 | n2, n5, n48 |  |
| CA\_n2-n5-n66 | n2, n5, n66 |  |
| CA\_n2-n5-n77 | n2, n5, n77 |  |
| CA\_n2-n12-n30 | n2, n12, n30 |  |
| CA\_n2-n12-n66 | n2, n12, n66 |  |
| CA\_n2-n12-n77 | n2, n12, n77 |  |
| CA\_n2-n14-n30 | n2, n14, n30 |  |
| CA\_n2-n14-n66 | n2, n14, n66 |  |
| CA\_n2-n14-n77 | n2, n14, n77 |  |
| CA\_n2-n29-n30 | n2, n29, n30 |  |
| CA\_n2-n29-n66 | n2, n29, n66 |  |
| CA\_n2-n29-n77 | n2, n29, n77 |  |
| CA\_n2-n30-n66 | n2, n30, n66 |  |
| CA\_n2-n30-n77 | n2, n30, n77 |  |
| CA\_n2-n48-n66 | n2, n48, n66 |  |
| CA\_n2-n48-n77 | n2, n48, n77 |  |
| CA\_n2-n66-n77 | n2, n66, n77 |  |
| CA\_n2-n66-n78 | n2, n66, n78 |  |
| CA\_n2-n71-n78 | n2, n71, n78 |  |
| CA\_n3-n5-n7 | n3, n5, n7 |  |
| CA\_n3-n5-n28 | n3, n5, n28 |  |
| CA\_n3-n5-n78 | n3, n5, n78 |  |
| CA\_n3-n7-n8 | n3, n7, n8 |  |
| CA\_n3-n7-n26 | n3, n7, n26 |  |
| CA\_n3-n7-n28 | n3, n7, n28 |  |
| CA\_n3-n7-n38 | n3, n7, n38 |  |
| CA\_n3-n7-n67 | n3, n7, n67 |  |
| CA\_n3-n7-n783 | n3, n7, n78 |  |
| CA\_n3-n7-n79 | n3, n7, n79 |  |
| CA\_n3-n8-n28 | n3, n8, n28 |  |
| CA\_n3-n8-n41 | n3, n8, n41 |  |
| CA\_n3-n8-n79 | n3, n8, n79 |  |
| CA\_n3-n8-n77 | n3, n8, n77 |  |
| CA\_n3-n8-n783 | n3, n8, n78 |  |
| CA\_n3-n18-n28 | n3, n18, n28 |  |
| CA\_n3-n18-n41 | n3, n18, n41 |  |
| CA\_n3-n18-n77 | n3, n18, n77 |  |
| CA\_n3-n20-n28 | n3, n20, n28 |  |
| CA\_n3-n20-n67 | n3, n20, n67 |  |
| CA\_n3-n20-n78 | n3, n20, n78 |  |
| CA\_n3-n26-n78 | n3, n26, n38 |  |
| CA\_n3-n28-n38 | n3, n28, n38 |  |
| CA\_n3-n28-n403 | n3, n28, n40 |  |
| CA\_n3-n28-n413 | n3, n28, n41 |  |
| CA\_n3-n28-n773 | n3, n28, n77 |  |
| CA\_n3-n28-n783 | n3, n28, n78 |  |
| CA\_n3-n28-n793 | n3, n28, n79 |  |
| CA\_n3-n38-n40 | n3, n38, n40 |  |
| CA\_n3-n40-n41 | n3, n40, n41 | No for CA n3-n40, CA n3-n41 |
| CA\_n3-n40-n77 | n3, n40, n77 |  |
| CA\_n3-n41-n773 | n3, n41, n77 |  |
| CA\_n3-n41-n783 | n3, n41, n78 |  |
| CA\_n3-n41-n793 | n3, n41, n79 | No |
| CA\_n3-n67-n78 | n3, n67, n78 |  |
| CA\_n3-n77-n79 | n3, n77, n79 |  |
| CA\_n3-n78-n79 | n3, n78, n79 |  |
| CA\_n5-n7-n28 | n5, n7, n28 |  |
| CA\_n5-n7-n77 | n5, n7, n77 |  |
| CA\_n5-n7-n78 | n5, n7, n78 |  |
| CA\_n5-n12-n77 | n5, n12, n77 |  |
| CA\_n5-n14-n77 | n5, n14, n77 |  |
| CA\_n5-n25-n66 | n5, n25, n66 |  |
| CA\_n5-n25-n77 | n5, n25, n77 |  |
| CA\_n5-n25-n78 | n5, n25, n78 |  |
| CA\_n5-n29-n77 | n5, n29, n77 |  |
| CA\_n5-n30-n66 | n5, n30, n66 |  |
| CA\_n5-n30-n77 | n5, n30, n77 |  |
| CA\_n5-n40-n78 | n5, n40, n78 |  |
| CA\_n5-n48-n77 | n5, n48, n77 |  |
| CA\_n5-n48-n66 | n5, n48, n66 |  |
| CA\_n5-n66-n77 | n5, n66, n77 |  |
| CA\_n5-n66-n78 | n5, n66, n78 |  |
| CA\_n7-n8-n28 | n7, n8, n28 |  |
| CA\_n7-n8-n40 | n7, n8, n40 |  |
| CA\_n7-n8-n78 | n7, n8, n78 |  |
| CA\_n7-n25-n66 | n7, n25, n66 |  |
| CA\_n7-n25-n77 | n7, n25, n77 |  |
| CA\_n7-n25-n78 | n7, n25, n78 |  |
| CA\_n7-n26-n78 | n7, n26, n78 |  |
| CA\_n7-n28-n38 | n7, n28, n38 |  |
| CA\_n7-n28-n78 | n7, n28, n78 |  |
| CA\_n7-n46-n78 | n7, n46, n78 |  |
| CA\_n7-n66-n78 | n7, n66, n78 |  |
| CA\_n7-n66-n77 | n7, n66, n77 |  |
| CA\_n7-n71-n77 | n7, n71, n77 |  |
| CA\_n8-n28-n783 | n8, n28, n78 |  |
| CA\_n8-n38-n40 | n8, n38, n40 |  |
| CA\_n8-n39-n41 | n8, n39, n41 | No for CA n8-n41, CA n39-n41 |
| CA\_n8-n40-n41 | n8, n40, n41 |  |
| CA\_n8-n40-n78 | n8, n40, n78 |  |
| CA\_n8-n41-n793 | n8, n41, n79 | No |
| CA\_n8-n78-n79 | n8, n78, n79 |  |
| CA\_n12-n30-n66 | n12, n30, n66 |  |
| CA\_n12-n30-n77 | n12, n30, n77 |  |
| CA\_n12-n66-n77 | n12, n66, n77 |  |
| CA\_n13-n25-n66 | n13, n25, n66 |  |
| CA\_n13-n25-n77 | n13, n25, n77 |  |
| CA\_n13-n66-n77 | n13, n66, n77 |  |
| CA\_n14-n30-n66 | n14, n30, n66 |  |
| CA\_n14-n30-n77 | n14, n30, n77 |  |
| CA\_n14-n66-n77 | n14, n66, n77 |  |
| CA\_n18-n28-n41 | n18, n28, n41 |  |
| CA\_n18-n28-n77 | n18, n28, n77 |  |
| CA\_n18-n41-n77 | n18, n41, n77 |  |
| CA\_n20-n28-n78 | n20, n28, n78 |  |
| CA\_n24-n41-n48 | n24, n41, n48 |  |
| CA\_n24-n41-n77 | n24, n41, n77 |  |
| CA\_n24-n48-n77 | n24, n48, n77 |  |
| CA\_n25-n41-n77 | n25, n41, n77 |  |
| CA\_n25-n29-n66 | n25, n29, n66 |  |
| CA\_n25-n38-n78 | n25, n38, n78 |  |
| CA\_n25-n41-n66 | n25, n41, n66 |  |
| CA\_n25-n41-n71 | n25, n41, n71 |  |
| CA\_n25-n41-n77 | n25, n41, n77 | No for CA\_n1-n78, CA\_n3-n78 |
| CA\_n25-n41-n78 | n25, n41, n78 |  |
| CA\_n25-n48-n66 | n25, n48, n66 |  |
| CA\_n25-n66-n71 | n25, n66, n71 |  |
| CA\_n25-n66-n77 | n25, n66, n77 |  |
| CA\_n25-n66-n78 | n25, n66, n78 |  |
| CA\_n25-n71-n77 | n25, n71, n77 |  |
| CA\_n25-n71-n78 | n25, n71, n78 |  |
| CA\_n26-n66-n70 | n26, n66, n70 |  |
| CA\_n28-n40-n79 | n28, n40, n79 |  |
| CA\_n28-n41-n793 | n28, n41, n79 |  |
| CA\_n28-n46-n78 | n28, n46, n78 |  |
| CA\_n28-n77-n79 | n28, n77, n79 |  |
| CA\_n28-n78-n79 | n28, n78, n79 |  |
| CA\_n28-n38-n78 | n28, n38, n78 |  |
| CA\_n28-n39-n40 | n28, n39, n40 |  |
| CA\_n28-n39-n41 | n28, n39, n41 |  |
| CA\_n28-n39-n79 | n28, n39, n79 |  |
| CA\_n28-n40-n77 | n28, n40, n77 |  |
| CA\_n28-n40-n78 | n28, n40, n78 |  |
| CA\_n28-n41-n773 | n28, n41, n77 |  |
| CA\_n28-n41-n783 | n28, n41, n78 |  |
| CA\_n29-n30-n66 | n29, n30, n66 |  |
| CA\_n29-n30-n77 | n29, n30, n77 |  |
| CA\_n29-n66-n70 | n29, n66, n70 |  |
| CA\_n29-n66-n77 | n29, n66, n77 |  |
| CA\_n29-n70-n71 | n29, n70, n71 |  |
| CA\_n30-n66-n77 | n30, n66, n77 |  |
| CA\_n38-n66-n78 | n38, n66, n78 |  |
| CA\_n39-n40-n41 | n39, n40, n41 |  |
| CA\_n39-n40-n79 | n39, n40, n79 |  |
| CA\_n39-n41-n79 | n39, n41, n79 | No |
| CA\_n40-n41-n791,2 | n40, n41, n79 | No for CA n40-n79, CA n41-n79 |
| CA\_n41-n66-n71 | n41, n66, n71 |  |
| CA\_n41-n66-n78 | n41, n66, n78 |  |
| CA\_n41-n66-n77 | n41, n66, n77 |  |
| CA\_n41-n70-n78 | n41, n70, n78 |  |
| CA\_n41-n71-n77 | n41, n71, n77 |  |
| CA\_n41-n71-n78 | n41, n71, n78 |  |
| CA\_n41-n77-n79 | n41, n77, n79 |  |
| CA\_n48-n66-n70 | n48, n66, n70 |  |
| CA\_n48-n66-n71 | n48, n66, n71 |  |
| CA\_n48-n66-n77 | n48, n66, n77 |  |
| CA\_n48-n70-n71 | n48, n70, n71 |  |
| CA\_n48-n70-n77 | n48, n70, n77 |  |
| CA\_n48-n71-n77 | n48, n71, n77 |  |
| CA\_n66-n70-n71 | n66, n70, n71 |  |
| CA\_n66-n70-n77 | n66, n70, n77 |  |
| CA\_n66-n71-n77 | n66, n71, n77 |  |
| CA\_n66-n71-n78 | n66, n71, n78 |  |
| CA\_n70-n71-n77 | n70, n71, n77 |  |
| NOTE 1: The frequency range below 2506 MHz for Band n41 is not used in this band combination.  NOTE 2: Applicable for frequency range above 4800 MHz for Band n79 in this band combination.  NOTE 3: Applicable for UE supporting inter-band carrier aggregation with mandatory simultaneous Rx/Tx capability  NOTE 4: Applicable when dynamic Tx switching is conducted. The DL interruption requirement is specified in clause 8.2.2.2.10 of 38.133 [13]. | | |

### *<< Next changes >>*

#### 5.5A.3.2 Configurations for inter-band CA (three bands)

Table 5.5A.3.2-1: NR CA configurations and bandwidth combinations sets defined for inter-band CA (three bands)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NR CA configuration | | Uplink CA configuration  or single uplink carrier6 | NR Band | Channel bandwidth (MHz) (NOTE 3) | Bandwidth combination set |
| CA\_n1A-n3A-n5A | | CA\_n1A-n3A  CA\_n1A-n5A  CA\_n3A-n5A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n5 | 5, 10, 15, 20 |  |
| CA\_n1A-n3A-n7A | | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n3A-n7A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n1 | 5, 10, 15, 20 | 2 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n1A-n3A-n7B | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n3A-n7A  CA\_n7B | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
| CA\_n1A-n3(2A)-n7A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n1(2A)-n3A-n7A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n1(2A)-n3B-n7A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n1(2A)-n3(2A)-n7A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n1A-n3B-n7B | | CA\_n1A-n3A  CA\_n1A-n7A  CA\_n3A-n7A  CA\_n7B | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
| CA\_n1A-n3A-n8A | | CA\_n1A-n3A  CA\_n1A-n8A  CA\_n3A-n8A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n8 | 5, 10, 15, 20 |  |
| CA\_n1A-n3A-n18A | | CA\_n1A-n3A  CA\_n1A-n18A  CA\_n3A-n18A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n18 | 5, 10, 15 |  |
| CA\_n1A-n3A-n20A | | CA\_n1A-n3A CA\_n1A-n20A CA\_n3A-n20A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n20 | 5, 10, 15, 20 |  |
| CA\_n1A-n3A-n26A | | CA\_n1A-n3A  CA\_n1A-n26A  CA\_n3A-n26A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n26 | 5, 10, 15, 20 |  |
| CA\_n1A-n3A-n26(2A) | | CA\_n1A-n3A  CA\_n1A-n26A  CA\_n3A-n26A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n1A-n3B-n26A | | CA\_n1A-n3A  CA\_n1A-n26A  CA\_n3A-n26A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
| CA\_n1A-n3B-n26(2A) | | CA\_n1A-n3A  CA\_n1A-n26A  CA\_n3A-n26A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n1A-n3A-n28A | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n28 | 5, 10, 15, 202 |  |
|  | | CA\_n1A-n3A  CA\_n1A-n28A  CA\_n3A-n28A | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 2 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n28 | 5, 10, 15, 201, 301 |  |
| CA\_n1A-n3A-n38A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n3B-n38A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1(2A)-n3A-n38A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1(2A)-n3B-n38A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n3(2A)-n38A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1(2A)-n3(2A)-n38A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n3A-n40A | | CA\_n1A-n3A  CA\_n1A-n40A  CA\_n3A-n40A | n1 | 5, 10, 15, 20, 30, 40, 45, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 30, 35, 40, 45, 50 |  |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n3A-n41A | | CA\_n1A-n3A  CA\_n1A-n41A  CA\_n3A-n41A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n3A-n67A | | CA\_n1A-n3A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n67 | 5, 10, 15, 20 |  |
| CA\_n1A-n3A-n77A | | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n3A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20 | 2 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 35,40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n3A-n77(2A) | | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n3A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n3A-n77(3A) | | CA\_n1A-n3A  CA\_n1A-n77A  CA\_n3A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n1A-n3A-n78A | | CA\_n1A-n3A  CA\_n1A-n78A7  CA\_n3A-n78A7 | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20 | 2 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n3A-n78(2A) | | CA\_n78(2A)  CA\_n1A-n3A  CA\_n1A-n78A  CA\_n3A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n1A-n3A-n78C | | CA\_n1A-n3A  CA\_n1A-n78A  CA\_n3A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n1A-n3B-n78A | | CA\_n1A-n3A  CA\_n1A-n78A  CA\_n3A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n3B-n78(2A) | | CA\_n1A-n3A  CA\_n1A-n78A  CA\_n3A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n1A-n3A-n79A | | CA\_n1A-n3A  CA\_n1A-n79A  CA\_n3A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1(2A)-n3A-n79A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n3A-n79C | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1(2A)-n3A-n79C | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1A-n3B-n79A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n3B-n79C | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1(2A)-n3B-n79A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1(2A)-n3B-n79C | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3B\_BCS0 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1A-n3(2A)-n79A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n3(2A)-n79C | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1(2A)-n3(2A)-n79A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1(2A)-n3(2A)-n79C | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n3 | CA\_n3(2A)\_BCS1 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1A-n5A-n7A | | CA\_n1A-n5A  CA\_n1A-n7A  CA\_n5A-n7A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n1A-n5A-n7B | | CA\_n1A-n5A  CA\_n1A-n7A  CA\_n5A-n7A  CA\_n7B | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
| CA\_n1A-n5A-n28A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n1A-n5A-n78A | | CA\_n1A-n5A  CA\_n1A-n78A  CA\_n5A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n1A-n7A-n8A | | CA\_n1A-n7A  CA\_n1A-n8A  CA\_n7A-n8A | n1 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n8 | 5, 10, 15, 20 |  |
| CA\_n1A-n7A-n26A | | CA\_n1A-n26A  CA\_n1A-n7A  CA\_n7A-n26A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n26 | 5, 10, 15, 20 |  |
| CA\_n1A-n7A-n26(2A) | | CA\_n1A-n26A  CA\_n1A-n7A  CA\_n7A-n26A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n1A-n7B-n26A | | CA\_n1A-n26A  CA\_n1A-n7A  CA\_n7A-n26A  CA\_n7B | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n26 | 5, 10, 15, 20 |  |
| CA\_n1A-n7B-n26(2A) | | CA\_n1A-n26A  CA\_n1A-n7A  CA\_n7A-n26A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n1A-n7A-n38A10 | | n1A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1(2A)-n7A-n38A10 | | n1A | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n7A-n40A | | CA\_n1A-n7A  CA\_n1A-n40A  CA\_n7A-n40A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
| CA\_n1A-n7A-n79A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n7A-n79C | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1(2A)-n7A-n79A | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1(2A)-n7A-n79C | | - | n1 | CA\_n1(2A)\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n1A-n8A-n28A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n28 | 10, 15, 20 |  |
| CA\_n1A-n8A-n40A | | CA\_n1A-n8A  CA\_n1A-n40A  CA\_n8A-n40A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
| CA\_n1A-n8A-n77A | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n8A-n77(2A) | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n7A-n28A | | CA\_n1A-n7A  CA\_n1A-n28A  CA\_n7A-n28A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
| CA\_n1A-n7B-n28A | | CA\_n1A-n28A  CA\_n1A-n7A  CA\_n7A-n28A  CA\_n7B | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
| CA\_n1A-n7A-n78A | | CA\_n1A-n7A  CA\_n1A-n78A  CA\_n7A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 901,100 |  |
|  | |  | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 901, 100 |  |
| CA\_n1A-n7B-n78A | | CA\_n1A-n78A  CA\_n1A-n7A  CA\_n7A-n78A  CA\_n7B | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n1A-n7B-n78(2A) | | CA\_n1A-n78A  CA\_n1A-n7A  CA\_n7A-n78A  CA\_n7B | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n1A-n7A-n78(2A) | | CA\_n1A-n7A  CA\_n1A-n78A  CA\_n7A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
|  | | CA\_n78(2A)  CA\_n1A-n7A  CA\_n1A-n78A  CA\_n7A-n78A | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n1A-n7A-n78C | | CA\_n1A-n7A  CA\_n1A-n78A  CA\_n7A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n1A-n8A-n78A | | CA\_n1A-n8A  CA\_n1A-n78A  CA\_n8A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | | - | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n8A-n78(2A) | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS1 |  |
| CA\_n1A-n8A-n79A | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n18A-n28A | | CA\_n1A-n18A  CA\_n1A-n28A  CA\_n18A-n28A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n18 | 5, 10, 15 |  |
|  | |  | n28 | 5, 10 |  |
| CA\_n1A-n18A-n41A | | CA\_n1A-n18A  CA\_n1A-n41A  CA\_n18A-n41A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n18 | 5, 10, 15 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n18A-n77A | | CA\_n1A-n18A  CA\_n1A-n77A  CA\_n18A-n77A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n18 | 5, 10, 15 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n18A-n77(2A) | | CA\_n1A-n18A  CA\_n1A-n77A  CA\_n18A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n18 | 5, 10, 15 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n20A-n67A | | CA\_n1A-n20A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n20 | 5, 10, 15, 20 |  |
|  | |  | n67 | 5, 10, 15, 20 |  |
| CA\_n1A-n20A-n78A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n20 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n26A-n78A | | CA\_n1A-n26A  CA\_n1A-n78A  CA\_n26A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n26 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n26(2A)-n78A | | CA\_n1A-n26A  CA\_n1A-n78A  CA\_n26A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n26A-n78(2A) | | CA\_n1A-n26A  CA\_n1A-n78A  CA\_n26A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n1A-n26(2A)-n78(2A) | | CA\_n1A-n26A  CA\_n1A-n78A  CA\_n26A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 45, 50 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n1A-n28A-n38A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n1A-n28A-n40A | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | |  | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n28 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n28A-n40B | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n40 | CA\_n40B\_BCS0 |  |
| CA\_n1A-n28A-n41A | | CA\_n1A-n28A  CA\_n1A-n41A  CA\_n28A-n41A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n28A-n77A | | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n28A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n28 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n28A-n77(2A) | | CA\_n1A-n28A CA\_n1A-n77A  CA\_n28A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n28A-n77(3A) | | CA\_n1A-n28A  CA\_n1A-n77A  CA\_n28A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
| CA\_n1A-n28A-n78A | | CA\_n1A-n28A  CA\_n1A-n78A  CA\_n28A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 202 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 2 |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n28A-n78(2A) | | CA\_n78(2A)  CA\_n1A-n28A  CA\_n1A-n78A  CA\_n28A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n1A-n28A-n78C | | CA\_n1A-n28A  CA\_n1A-n78A  CA\_n28A-n78A | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n1A-n28A-n79A | | CA\_n1A-n28A  CA\_n1A-n79A  CA\_n28A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n38A-n78A | | - | n1 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n40A-n77A | | CA\_n1A-n40A  CA\_n1A-n77A  CA\_n40A-n77A | n1 | 5, 10, 15, 20, 30, 40, 45, 50 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n40A-n77(2A) | | CA\_n1A-n40A  CA\_n1A-n77A  CA\_n40A-n77A | n1 | 5, 10, 15, 20, 30, 40, 45, 50 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n40A-n78A | | CA\_n1A-n40A  CA\_n1A-n78A  CA\_n40A-n78A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n1A-n40A  CA\_n1A-n78A  CA\_n40A-n78A | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n1A-n40A  CA\_n1A-n78A  CA\_n40A-n78A | n1 | 5, 10, 15, 20 | 2 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n1A-n40B-n78A | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n40 | CA\_n40B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n41A-n77A | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n41A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n1A-n41A-n77(2A) | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n41A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n1A-n41A-n77(3A) | | CA\_n1A-n41A  CA\_n1A-n77A  CA\_n41A-n77A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n1A-n41A-n79A | | CA\_n1A-n41A  CA\_n1A-n79A  CA\_n41A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n77A-n79A4 | | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n77A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n77(2A)-n79A4 | | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n77A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n77(3A)-n79A4 | | CA\_n1A-n77A  CA\_n1A-n79A  CA\_n77A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n78A-n79A5 | | CA\_n1A-n78A  CA\_n1A-n79A  CA\_n78A-n79A | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n1 | 5, 10, 15, 20 | 1 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n1A-n78(2A)-n79A | | - | n1 | 5, 10, 15, 20 | 0 |
|  | |  | n78 | CA\_n78(2A)\_BCS1 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n2A-n5A-n30A | | CA\_n2A-n5A  CA\_n2A-n30A  CA\_n5A-n30A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2A-n5A-n48A | | CA\_n2A-n5A  CA\_n2A-n48A  CA\_n5A-n48A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n5A-n48B | | CA\_n2A-n5A  CA\_n2A-n48A  CA\_n5A-n48A  CA\_n48B | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n2 | 5, 10, 15, 20 | 1 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n2 | 5, 10, 15, 20 | 2 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n48 | CA\_n48B\_BCS2 |  |
| CA\_n2A-n5A-n48(2A) | | CA\_n2A-n5A  CA\_n2A-n48A  CA\_n5A-n48A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n2 | 5, 10, 15, 20 | 1 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
| CA\_n2A-n5A-n48(A-B) | | CA\_n2A-n5A  CA\_n2A-n48A  CA\_n5A-n48A | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 251 |  |
|  | |  | n48 | CA\_n48(A-B)\_BCS0 |  |
|  | |  | n2 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n5 | 5, 10, 15, 20, 251 |  |
|  | |  | n48 | CA\_n48(A-B)\_BCS1 |  |
| CA\_n2(2A)-n5A-n30A | | CA\_n2A-n5A  CA\_n2A-n30A  CA\_n5A-n30A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2A-n5A-n66A | | CA\_n2A-n5A  CA\_n2A-n66A  CA\_n5A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2(2A)-n5A-n66A | | CA\_n2A-n5A  CA\_n2A-n66A  CA\_n5A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2(2A)-n5A-n66(2A) | | CA\_n2A-n5A  CA\_n2A-n66A  CA\_n5A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2A-n5A-n66(2A) | | CA\_n2A-n5A  CA\_n2A-n66A  CA\_n5A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
| CA\_n2A-n5A-n66(3A) | | CA\_n2A-n5A  CA\_n2A-n66A  CA\_n5A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n2A-n5A-n77A | | n777, 9  CA\_n2A-n5A  CA\_n2A-n77A7  CA\_n5A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n5A-n77C | | CA\_n2A-n5A  CA\_n2A-n77A  CA\_n5A-n77A  CA\_n77C | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n5 | 5, 10, 15, 20, 251 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n2 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n5 | 5, 10, 15, 20, 251 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n2A-n5A-n77(2A) | | n777  CA\_n2A-n5A  CA\_n2A-n77A7  CA\_n5A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n5A-n77A | | n777  CA\_n2A-n5A  CA\_n2A-n77A7  CA\_n5A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n5A-n77(2A) | | n777  CA\_n2A-n5A  CA\_n2A-n77A7  CA\_n5A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n12A-n30A | | CA\_n2A-n12A  CA\_n2A-n30A  CA\_n12A-n30A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2(2A)-n12A-n30A | | CA\_n2A-n12A  CA\_n2A-n30A  CA\_n12A-n30A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2A-n12A-n66A | | CA\_n2A-n12A  CA\_n2A-n66A  CA\_n12A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2(2A)-n12A-n66A | | CA\_n2A-n12A  CA\_n2A-n66A  CA\_n12A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2A-n12A-n66(2A) | | CA\_n2A-n12A  CA\_n2A-n66A  CA\_n12A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2(2A)-n12A-n66(2A) | | CA\_n2A-n12A  CA\_n2A-n66A  CA\_n12A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2A-n12A-n66(3A) | | CA\_n2A-n12A  CA\_n2A-n66A  CA\_n12A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n2A-n12A-n77A | | n777  CA\_n2A-n12A  CA\_n2A-n77A7  CA\_n12A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n12A-n77A | | n777  CA\_n2A-n12A  CA\_n2A-n77A7  CA\_n12A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n12A-n77(2A) | | n777  CA\_n2A-n12A  CA\_n2A-n77A7  CA\_n12A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n12A-n77(2A) | | n777  CA\_n2A-n12A  CA\_n2A-n77A7  CA\_n12A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n14A-n30A | | CA\_n2A-n14A  CA\_n2A-n30A  CA\_n14A-n30A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2(2A)-n14A-n30A | | CA\_n2A-n14A  CA\_n2A-n30A  CA\_n14A-n30A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2A-n14A-n66A | | CA\_n2A-n14A  CA\_n2A-n66A  CA\_n14A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2(2A)-n14A-n66A | | CA\_n2A-n14A  CA\_n2A-n66A  CA\_n14A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2(2A)-n14A-n66(2A) | | CA\_n2A-n14A  CA\_n2A-n66A  CA\_n14A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2A-n14A-n66(2A) | | CA\_n2A-n14A  CA\_n2A-n66A  CA\_n14A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2A-n14A-n66(3A) | | CA\_n2A-n14A  CA\_n2A-n66A  CA\_n14A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n2A-n14A-n77A | | n777  CA\_n2A-n14A  CA\_n2A-n77A7  CA\_n14A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n14A-n77(2A) | | n777  CA\_n2A-n14A CA\_n2A-n77A7 CA\_n14A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n14A-n77A | | n777  CA\_n2A-n14A CA\_n2A-n77A7 CA\_n14A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n14A-n77(2A) | | n777  CA\_n2A-n14A CA\_n2A-n77A7 CA\_n14A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n29A-n30A | | CA\_n2A-n30A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2(2A)-n29A-n30A | | CA\_n2A-n30A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n30 | 5, 10 |  |
| CA\_n2A-n29A-n66A | | CA\_n2A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2(2A)-n29A-n66A | | CA\_n2A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2A-n29A-n66(2A) | | CA\_n2A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2(2A)-n29A-n66(2A) | | CA\_n2A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2A-n29A-n77A | | n777  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n29A-n77A | | n777  CA\_n2A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n29A-n77(2A) | | n777  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n29A-n77(2A) | | CA\_n2A-n77A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n30A-n66A | | CA\_n2A-n30A  CA\_n30A-n66A  CA\_n2A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
| CA\_n2(2A)-n30A-n66A | | CA\_n2A-n30A  CA\_n30A-n66A  CA\_n2A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
| CA\_n2(2A)-n30A-n66(2A) | | CA\_n2A-n30A  CA\_n30A-n66A  CA\_n2A-n66A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n2A-n30A-n66(2A) | | CA\_n2A-n30A  CA\_n30A-n66A  CA\_n2A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
| CA\_n2A-n30A-n66(3A) | | CA\_n2A-n30A  CA\_n30A-n66A  CA\_n2A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n2A-n30A-n77A | | n777  CA\_n2A-n30A  CA\_n2A-n77A7  CA\_n30A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n30A-n77(2A) | | n777  CA\_n2A-n30A CA\_n2A-n77A7 CA\_n30A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n30A-n77A | | n777  CA\_n2A-n30A CA\_n2A-n77A7 CA\_n30A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n30A-n77(2A) | | n777  CA\_n2A-n30A CA\_n2A-n77A7 CA\_n30A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n48A-n66A | | CA\_n2A-n48A  CA\_n2A-n66A  CA\_n48A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2A-n48(A-B)-n66A | | CA\_n2A-n48A  CA\_n2A-n66A  CA\_n48A-n66A | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n48 | CA\_n48(A-B)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n2 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n48 | CA\_n48(A-B)\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2A-n48B-n66A | | CA\_n48B  CA\_n2A-n48A  CA\_n2A-n66A  CA\_n48A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n2 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n2 | 5, 10, 15, 20 | 2 |
|  | |  | n48 | CA\_n48B\_BCS2 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2A-n48(2A)-n66A | | CA\_n2A-n48A  CA\_n2A-n66A  CA\_n48A-n66A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n2 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n2A-n48A-n77A | | n777, 9  CA\_n2A-n48A  CA\_n2A-n77A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n48A-n77C | | CA\_n2A-n48A  CA\_n2A-n77A  CA\_n77C | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n2 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n2A-n48(2A)-n77C | | CA\_n2A-n48A  CA\_n2A-n77A | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n2A-n48B-n77C | | CA\_n48B  CA\_n2A-n48A  CA\_n2A-n77A | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n48 | CA\_n48B\_BCS2 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n2A-n48B-n77A | | CA\_n48B  CA\_n2A-n48A  CA\_n2A-n77A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n2 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n2 | 5, 10, 15, 20 | 2 |
|  | |  | n48 | CA\_n48B\_BCS2 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n48(2A)-n77A | | CA\_n2A-n48A  CA\_n2A-n77A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n2 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n66A-n71A | | - | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n2A-n66A-n77A | | n777, 9  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n66A-n77A | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n66(2A)-n77A | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n66A-n77C | | CA\_n2A-n66A  CA\_n66A-n77A  CA\_n2A-n77A  CA\_n77C | n2 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n2 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n2A-n66A-n77(2A) | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n66(2A)-n77A | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2(2A)-n66(2A)-n77(2A) | | CA\_n2A-n66A  CA\_n2A-n77A  CA\_n66A-n77A | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2(2A)-n66A-n77(2A) | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | CA\_n2(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n66(2A)-n77(2A) | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n66(3A)-n77A | | n777  CA\_n2A-n66A  CA\_n66A-n77A7  CA\_n2A-n77A7 | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n66(3A)-n77(2A) | | CA\_n2A-n66A  CA\_n2A-n77A  CA\_n66A-n77A | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n2A-n66A-n78A | | - | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n66A-n78(2A) | | - | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n2A-n71A-n78A | | - | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n2A-n71A-n78(2A) | | - | n2 | 5, 10, 15, 20 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n3A-n5A-n7A | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | | CA\_n3A-n5A  CA\_n3A-n7A  CA\_n5A-n7A | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
| CA\_n3A-n5A-n7B | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | | CA\_n3A-n5A  CA\_n3A-n7A  CA\_n5A-n7A  CA\_n7B | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
| CA\_n3A-n5A-n28A | | - | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n3A-n5A-n78A | | CA\_n3A-n5A  CA\_n3A-n78A  CA\_n5A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n5 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n7A-n8A | | - | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n8 | 5, 10, 15, 20, 35 |  |
| CA\_n3A-n7A-n26A | | CA\_n3A-n26A  CA\_n3A-n7A  CA\_n7A-n26A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n26 | 5, 10, 15, 20 |  |
| CA\_n3A-n7A-n26(2A) | | CA\_n3A-n26A  CA\_n3A-n7A  CA\_n7A-n26A | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n3A-n7B-n26A | | CA\_n3A-n26A  CA\_n3A-n7A  CA\_n7A-n26A  CA\_n7B | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n26 | 5, 10, 15, 20 |  |
| CA\_n3A-n7B-n26(2A) | | CA\_n3A-n26A  CA\_n3A-n7A  CA\_n7A-n26A | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n3B-n7A-n26A | | CA\_n3A-n7A  CA\_n3A-n26A  CA\_n7A-n26A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
| CA\_n3B-n7A-n26(2A) | | CA\_n3A-n7A  CA\_n3A-n26A  CA\_n7A-n26A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n3B-n7B-n26A | | CA\_n3A-n7A  CA\_n3A-n26A  CA\_n7A-n26A  CA\_n7B | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
| CA\_n3B-n7B-n26(2A) | | CA\_n3A-n7A  CA\_n3A-n26A  CA\_n7A-n26A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
| CA\_n3A-n7A-n28A | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | | CA\_n3A-n7A  CA\_n3A-n28A  CA\_n7A-n28A | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 2 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
| CA\_n3A-n7B-n28A | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | | CA\_n3A-n7A  CA\_n3A-n28A  CA\_n7A-n28A  CA\_n7B | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n28 | 5, 10, 15, 20 |  |
| CA\_n3A-n7A-n38A10 | | n3A | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3B-n7A-n38A10 | | n3A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3(2A)-n7A-n38A10 | | n3A | n3 | CA\_n3(2A)\_BCS1 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n3A-n7A-n67A | | CA\_n3A-n7A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n67 | 5, 10, 15, 20 |  |
| CA\_n3A-n7A-n78A | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n3A-n7A-n78C | | - | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n3A-n7B-n78A | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A  CA\_n7B | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n3A-n7B-n78(2A) | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A  CA\_n7B | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3A-n7A-n78(2A) | | CA\_n78(2A)  CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n3B-n7A-n78A | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3B-n7A-n78(2A) | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3B-n7B-n78A | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A  CA\_n7B | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3B-n7B-n78(2A) | | CA\_n3A-n7A  CA\_n3A-n78A  CA\_n7A-n78A  CA\_n7B | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3A-n7A-n79A | | - | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n79 | 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n8A-n28A | | - | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n8 | 5, 10, 15, 20, 35 |  |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n3A-n8A-n41A | | CA\_n3A-n8A  CA\_n3A-n41A  CA\_n8A-n41A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n8A-n77A | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n8A-n77(2A) | | - | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n3A-n8A-n78A | | CA\_n3A-n8A  CA\_n3A-n78A  CA\_n8A-n78A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n18A-n28A | | CA\_n3A-n18A  CA\_n3A-n28A  CA\_n18A-n28A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n18 | 5, 10, 15 |
|  | |  | n28 | 5, 10 |
| CA\_n3A-n18A-n41A | | CA\_n3A-n41A  CA\_n3A-n18A  CA\_n18A-n41A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n18 | 5, 10, 15 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |
| CA\_n3A-n18A-n77A | | CA\_n3A-n18A  CA\_n3A-n77A  CA\_n18A-n77A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n18 | 5, 10, 15 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |
| CA\_n3A-n18A-n77(2A) | | CA\_n3A-n18A  CA\_n3A-n77A  CA\_n18A-n77A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n18 | 5, 10, 15 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n3A-n20A-n67A | | CA\_n3A-n20A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
| n20 | 5, 10, 15, 20 |
| n67 | 5, 10, 15, 20 |
| CA\_n3A-n20A-n28A | | CA\_n3A-n20A  CA\_n3A-n28A  CA\_n20A-n28A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n20 | 5, 10, 15, 20 |  |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n3A-n20A-n78A | | - | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
| n20 | 5, 10, 15, 20 |
| n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |
| CA\_n3A-n26A-n78A | | CA\_n3A-n26A  CA\_n3A-n78A  CA\_n26A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n26 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n26A-n78(2A) | | CA\_n3A-n26A  CA\_n3A-n78A  CA\_n26A-n78A | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3A-n26(2A)-n78A | | CA\_n3A-n26A  CA\_n3A-n78A  CA\_n26A-n78A | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n26(2A)-n78(2A) | | CA\_n3A-n26A  CA\_n3A-n78A  CA\_n26A-n78A | n3 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3B-n26A-n78A | | CA\_n3A-n26A  CA\_3A-n78A  CA\_n26A-n78A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3B-n26A-n78(2A) | | CA\_n3A-n26A  CA\_3A-n78A  CA\_n26A-n78A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3B-n26(2A)-n78A | | CA\_n3A-n26A  CA\_3A-n78A  CA\_n26A-n78A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3B-n26(2A)-n78(2A) | | CA\_n3A-n26A  CA\_3A-n78A  CA\_n26A-n78A | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n3A-n28A-n38A | | - | n3 | 5, 10, 15, 20, 30, 40, 50 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n38 | 5, 10, 15, 20, 30, 40 |  |
| CA\_n3A-n28A-n40A | | CA\_n3A-n28A  CA\_n3A-n40A  CA\_n28A-n40A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n40 | 20, 40 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 35,40 | 1 |
|  | |  | n28 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n28A-n41A | | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n28A-n41A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n28A-n41B | | CA\_n3A-n28A  CA\_n3A-n41A  CA\_n28A-n41A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n41 | CA\_n41B\_BCS0 |  |
| CA\_n3A-n28A-n77A | | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 35,40 | 2 |
|  | |  | n28 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n28A-n77(2A) | | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | | CA\_n77(2A) | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n3A-n28A-n77(3A) | | CA\_n3A-n28A  CA\_n3A-n77A  CA\_n28A-n77A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
| CA\_n3A-n28A-n78A | | CA\_n3A-n28A  CA\_n3A-n78A  CA\_n28A-n78A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 202 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n28 | 5, 10, 15, 202 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 2 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n28A-n78C | | - | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n3A-n28A-n78(2A) | | CA\_n3A-n28A  CA\_n3A-n78A  CA\_n28A-n78A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 202 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
|  | | CA\_n78(2A)  CA\_n3A-n28A  CA\_n3A-n78A  CA\_n28A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 2 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n3A-n28A-n79A | | CA\_n3A-n28A  CA\_n3A-n79A  CA\_n28A-n79A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n79 | 40, 50, 80, 100 |  |
| CA\_n3A-n38A-n40A | | - | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n77A-n79A4 | | CA\_n3A-n77A  CA\_n3A-n79A  CA\_n77A-n79A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3A-n77(2A)-n79A4 | | CA\_n3A-n77A  CA\_n3A-n79A  CA\_n77A-n79A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3A-n77(3A)-n79A4 | | CA\_n3A-n77A  CA\_n3A-n79A  CA\_n77A-n79A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3A-n40A-n41A | | CA\_n3A-n40A  CA\_n3A-n41A  CA\_n40A-n41A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n40A-n77A | | CA\_n3A-n40A  CA\_n3A-n77A  CA\_n40A-n77A | n3 | 5, 10, 15, 20, 30, 35, 40, 45, 50 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n40A-n77(2A) | | CA\_n3A-n40A  CA\_n3A-n77A  CA\_n40A-n77A | n3 | 5, 10, 15, 20, 30, 35, 40, 45, 50 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n3A-n41A-n77A | | CA\_n3A-n41A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | | CA\_n3A-n77A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n41A-n77A | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n41B-n77A | | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n41A-n77A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | CA\_n41B\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n41A-n77(2A) | | CA\_n3A-n41A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | | CA\_n3A-n77A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n41A-n77A | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n3A-n41A-n77(3A) | | CA\_n3A-n41A  CA\_n3A-n77A  CA\_n41A-n77A | n3 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n3A-n41A-n78A | | - | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | | CA\_n3A-n41A | n3 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | | CA\_n3A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n41A-n78A | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n3A-n41A-n78(2A) | | CA\_n3A-n41A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | | CA\_n3A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n41A-n78A | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n3A-n41A-n79A | | CA\_n3A-n41A  CA\_n3A-n79A  CA\_n41A-n79A | n3 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 | 1 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n3 | 5, 10, 15, 20, 25, 30 | 2 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3A-n67A-n78A | | CA\_n3A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n67 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n3A-n67A-n78(2A) | | CA\_n78(2A)  CA\_n3A-n78A | n3 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n67 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n3A-n78A-n79A | | - | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3A-n78A-n79C | | - | n3 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n3B-n78A-n79A | | - | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3B-n78A-n79C | | - | n3 | CA\_n3B\_BCS0 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n3(2A)-n78A-n79A | | - | n3 | CA\_n3(2A)\_BCS1 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n3(2A)-n78A-n79C | | - | n3 | CA\_n3(2A)\_BCS1 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n5A-n7A-n28A | | - | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | 5, 10, 15, 25, 30, 40, 50 |  |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n5A-n7A-n77A | | CA\_n5A-n7A CA\_n5-n77A CA\_n7-n77A | n5 | 5, 10, 15, 20, 25 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n7A-n77(2A) | | CA\_n77(2A)  CA\_n5A-n7A  CA\_n5A-n77A  CA\_n7A-n77A | n5 | 5, 10, 15, 20, 25 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n5A-n7A-n77(3A) | | CA\_n77(2A)  CA\_n5A-n7A  CA\_n5A-n77A  CA\_n7A-n77A | n5 | 5, 10, 15, 20, 25 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
| CA\_n5A-n7A-n78A | | CA\_n5A-n78A7  CA\_n7A-n78A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | | CA\_n5A-n7A  CA\_n5A-n78A  CA\_n7A-n78A | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n5A-n7B-n78A | | CA\_n5A-n78A7  CA\_n7A-n78A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | | CA\_n5A-n7A  CA\_n5A-n78A  CA\_n7A-n78A  CA\_n7B | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n7 | CA\_n7B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n5A-n12A-n77A | | n777  CA\_n5A-n12A  CA\_n5A-n77A7  CA\_n12A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n12A-n77(2A) | | n777  CA\_n5A-n12A CA\_n5A-n77A7 CA\_n12A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n12 | 5, 10, 15 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n14A-n77A | | n777  CA\_n5A-n14A  CA\_n5A-n77A7  CA\_n14A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n14A-n77(2A) | | n777  CA\_n5A-n14A CA\_n5A-n77A7 CA\_n14A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n14 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n25A-n66A | | CA\_n5A-n25A  CA\_n5A-n66A  CA\_n25A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A-n25(2A)-n66A | | CA\_n5A-n25A  CA\_n5A-n66A  CA\_n25A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A-n25A-n66(2A) | | CA\_n5A-n25A  CA\_n5A-n66A  CA\_n25A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n5A-n25(2A)-n66(2A) | | CA\_n5A-n25A  CA\_n5A-n66A  CA\_n25A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n5A-n25A-n77A | | CA\_n5A-n25A | n5 | 5, 10, 15, 20 | 0 |
|  | | CA\_n5A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | | CA\_n25A-n77A | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n25(2A)-n77A | | CA\_n5A-n25A  CA\_n5A-n77A  CA\_n25A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n25A-n77(2A) | | CA\_n5A-n25A  CA\_n5A-n77A  CA\_n25A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n25A-n77(3A) | | CA\_n77(2A)  CA\_n5A-n25A  CA\_n5A-n77A  CA\_n25A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n5A-n25(2A)-n77(2A) | | CA\_n5A-n25A  CA\_n5A-n77A  CA\_n25A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n25A-n78A | | CA\_n5A-n25A  CA\_n5A-n78A  CA\_n25A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n25(2A)-n78A | | CA\_n5A-n25A  CA\_n5A-n78A  CA\_n25A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n25A-n78(2A) | | CA\_n5A-n25A  CA\_n5A-n78A  CA\_n25A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n5A-n25(2A)-n78(2A) | | CA\_n5A-n25A  CA\_n5A-n78A  CA\_n25A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n5A-n29A-n77A | | n777  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n29A-n77(2A) | | n777  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n30A-n66A | | CA\_n5A-n30A  CA\_n30A-n66A  CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
| CA\_n5A-n30A-n66(2A) | | CA\_n5A-n30A  CA\_n30A-n66A  CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
| CA\_n5A-n30A-n66(3A) | | CA\_n5A-n30A  CA\_n30A-n66A  CA\_n5A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n5A-n30A-n77A | | n777  CA\_n5A-n30A  CA\_n5A-n77A7  CA\_n30A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n30A-n77(2A) | | n777  CA\_n5A-n30A CA\_n5A-n77A7 CA\_n30A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n40A-n78A | | CA\_n5A-n40A  CA\_n5A-n78A  CA\_n40A-n78A | n5 | 5, 10, 15, 20, 251 | 0 |
|  | |  | n40 | 58, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90,100 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90,100 |  |
| CA\_n5A-n48A-n66A | | CA\_n5A-n48A  CA\_n5A-n66A  CA\_n48A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A-n48(A-B)-n66A | | CA\_n5A-n48A  CA\_n5A-n66A  CA\_n48A-n66A | n5 | 5, 10, 15, 20, 251 | 0 |
|  | |  | n48 | CA\_n48(A-B)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n5 | 5, 10, 15, 20, 251 | 1 |
|  | |  | n48 | CA\_n48(A-B)\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A-n48B-n66A | | CA\_n48B  CA\_n5A-n48A  CA\_n5A-n66A  CA\_n48A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n5 | 5, 10, 15, 20 | 2 |
|  | |  | n48 | CA\_n48B\_BCS2 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A-n48(2A)-n66A | | CA\_n5A-n48A  CA\_n5A-n66A  CA\_n48A-n66A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n5A-n48A-n77A | | n777, 9  CA\_n5A-n48A  CA\_n5A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n48A-n77C | | CA\_n5A-n48A  CA\_n5A-n77A  CA\_n77C | n5 | 5, 10, 15, 20, 251 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n5 | 5, 10, 15, 20, 251 | 1 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n5A-n48B-n77A | | CA\_n5A-n48A  CA\_n5A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n5 | 5, 10, 15, 20 | 2 |
|  | |  | n48 | CA\_n48B\_BCS2 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n48B-n77C | | CA\_n5A-n48A  CA\_n5A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n77 | CA\_n77C BCS1 |  |
|  | |  | n5 | 5, 10, 15, 20 | 2 |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n77 | CA\_n77C BCS0 |  |
|  | |  | n5 | 5, 10, 15, 20 | 3 |
|  | |  | n48 | CA\_n48B\_BCS1 |  |
|  | |  | n77 | CA\_n77C BCS1 |  |
| CA\_n5A-n48(2A)-n77A | | CA\_n5A-n48A  CA\_n5A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n48(2A)-n77C | | CA\_n5A-n48A  CA\_n5A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
|  | |  | n5 | 5, 10, 15, 20 | 2 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n5 | 5, 10, 15, 20 | 3 |
|  | |  | n48 | CA\_n48(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n5A-n66A-n77A | | n777, 9  CA\_n5A-n66A  CA\_n66A-n77A7  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n66(2A)-n77A | | n777  CA\_n5A-n66A  CA\_n66A-n77A7  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n66(2A)-n77(2A) | | n777  CA\_n5A-n66A  CA\_n66A-n77A7  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n66(3A)-n77A | | n777  CA\_n5A-n66A  CA\_n66A-n77A7  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n66(3A)-n77(2A) | | CA\_n5A-n66A  CA\_n66A-n77A  CA\_n5A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n66A-n77C | | CA\_n5A-n66A  CA\_n66A-n77A  CA\_n5A-n77A  CA\_n77C | n5 | 5, 10, 15, 20, 251 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n5 | 5, 10, 15, 20, 251 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n5A-n66A-n77(2A) | | n777  CA\_n5A-n66A  CA\_n66A-n77A7  CA\_n5A-n77A7 | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n5A-n66A-n77(3A) | | CA\_n77(2A)  CA\_n5A-n66A  CA\_n5A-n77A  CA\_n66A-n77A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n5A-n66A-n78A | | CA\_n5A-n66A  CA\_n5A-n78A  CA\_n66A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n5 | 5, 10, 15, 20 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n66(2A)-n78A | | CA\_n5A-n66A CA\_n5A-n78A CA\_n66A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n5A-n66A-n78(2A) | | CA\_n5A-n66A CA\_n5A-n78A CA\_n66A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n5A-n66(2A)-n78(2A) | | CA\_n5A-n66A CA\_n5A-n78A CA\_n66A-n78A | n5 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7A-n8A-n28A | | - | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n28 | 5, 10, 15, 20, 30 |  |
| CA\_n7A-n8A-n40A | | CA\_n7A-n8A  CA\_n7A-n40A  CA\_n8A-n40A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
| CA\_n7A-n8A-n78A | | CA\_n7A-n8A  CA\_n7A-n78A  CA\_n8A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n8 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n25A-n66A | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n7A-n25(2A)-n66A | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n7A-n25(2A)-n66(2A) | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n7A-n25A-n66(2A) | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n7(2A)-n25A-n66A | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n7(2A)-n25(2A)-n66A | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n7(2A)-n25A-n66(2A) | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n7(2A)-n25(2A)-n66(2A) | | CA\_n7A-n25A  CA\_n7A-n66A  CA\_n25A-n66A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n7A-n25A-n77A | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n25(2A)-n77A | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n25A-n77(2A) | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7A-n25A-n77(3A) | | CA\_n77(2A)  CA\_n7A-n25A  CA\_n7A-n77A  CA\_n25A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n7A-n25(2A)-n77(2A) | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7(2A)-n25A-n77A | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7(2A)-n25(2A)-n77A | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7(2A)-n25A-n77(2A) | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7(2A)-n25(2A)-n77(2A) | | CA\_n7A-n25A  CA\_n7A\_n77A  CA\_n25A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7A-n25A-n78A | | CA\_n7A-n25A  CA\_n7A-n78A  CA\_n25A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 904, 100 |  |
| CA\_n7(2A)-n25A-n78A | | - | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 904, 100 |  |
| CA\_n7A-n25(2A)-n78A | | - | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 904, 100 |  |
| CA\_n7(2A)-n25(2A)-n78A | | - | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 904, 100 |  |
| CA\_n7A-n25A-n78(2A) | | CA\_n7A-n25A  CA\_n7A-n78A  CA\_n25A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7(2A)-n25A-n78(2A) | | - | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7A-n25(2A)-n78(2A) | | - | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7(2A)-n25(2A)-n78(2A) | | - | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n25 | CA\_n25(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7A-n26A-n78A | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n26 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n26A-n78(2A) | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7A-n26(2A)-n78A | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n26(2A)-n78(2A) | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A | | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  |  | | n26 | CA\_n26(2A)\_BCS0 |  |
|  |  | | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7B-n26A-n78A | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A  CA\_n7B | n7 | CA\_n7B\_BCS0 | 0 |
|  | |  | n26 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7B-n26A-n78(2A) | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n7B  CA\_n26A-n78A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n26 | 5, 10, 15, 20, 25, 30 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7B-n26(2A)-n78A | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A | n7 | CA\_n7B\_BCS0 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7B-n26(2A)-n78(2A) | | CA\_n7A-n26A  CA\_n7A-n78A  CA\_n26A-n78A | n7 | CA\_n7B\_BCS0 | 0 |
|  | |  | n26 | CA\_n26(2A)\_BCS0 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS0 |  |
| CA\_n7A-n28A-n38A11 | | n28 | n7 | 5, 10, 15, 20, 30, 40, 50 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n38 | 5, 10, 15, 20, 30, 40 |  |
| CA\_n7A-n28A-n78(2A) | | CA\_n78(2A)  CA\_n7A-n28A  CA\_n7A-n78A  CA\_n28A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7A-n28A-n78A | | CA\_n7A-n78A7 | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | | CA\_n28A-n78A7 | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n7A-n28A  CA\_n7A-n78A  CA\_n28A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n7A-n28A-n78C | | - | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n7B-n28A-n78A | | CA\_n7A-n78A7  CA\_n28A-n78A7 | n7 | CA\_n7B\_BCS0 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n7A-n28A  CA\_n7A-n78A  CA\_n28A-n78A  CA\_n7B | n7 | CA\_n7B\_BCS0 | 1 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 704, 80, 90, 100 |  |
| CA\_n7A-n40A-n78A | | CA\_n7A-n40A  CA\_n7A-n78A  CA\_n40A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 30, 40, 50, 60, 80 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n46A-n78A | | CA\_n7A-n46A CA\_n7A-n78A CA\_n46A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n46 | 20, 40, 60, 80 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n46C-n78A | | CA\_n7A-n46A CA\_n7A-n78A CA\_n46A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n46 | CA\_n46C\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n46D-n78A | | CA\_n7A-n46A CA\_n7A-n78A CA\_n46A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n46 | CA\_n46D\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n66A-n77A | | CA\_n7A-n66A  CA\_n7A-n77A  CA\_n66A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n66(2A)-n77A | | CA\_n7A-n66A  CA\_n7A-n77A  CA\_n66A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n66A-n77(2A) | | CA\_n7A-n66A CA\_n7A-n77A CA\_n66A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7A-n66A-n77(3A) | | CA\_n77(2A)  CA\_n7A-n66A  CA\_n7A-n77A  CA\_n66A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n7A-n66(2A)-n77(2A) | | CA\_n7A-n66A CA\_n7A-n77A CA\_n66A-n77A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7(2A)-n66A-n77A | | CA\_n7A-n66A CA\_n7A-n77A CA\_n66A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7(2A)-n66(2A)-n77A | | CA\_n7A-n66A CA\_n7A-n77A CA\_n66A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7(2A)-n66A-n77(2A) | | CA\_n7A-n66A CA\_n7A-n77A CA\_n66A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7(2A)-n66(2A)-n77(2A) | | CA\_n7A-n66A CA\_n7A-n77A CA\_n66A-n77A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n7A-n66A-n78A | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n66A-n78(2A) | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS1 |  |
|  | |  | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7(2A)-n66A-n78A | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n66(2A)-n78A | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7(2A)-n66(2A)-n78A | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n66(2A)-n78(2A) | | - | n7 | 5, 10, 15, 20, 25, 30, 40, 50 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7(2A)-n66A-n78(2A) | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7(2A)-n66(2A)-n78(2A) | | CA\_n7A-n66A  CA\_n7A-n78A  CA\_n66A-n78A | n7 | CA\_n7(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n7A-n71A-n77A | | CA\_n7A-n71A CA\_n7A-n77A CA\_n71-n77A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n71 | 5, 10, 15, 20, 25, 30, 35 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n7A-n71  A-n77(2A) | | CA\_n77(2A)  CA\_n7A-n71A  CA\_n7A-n77A  CA\_n71A-n77A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n71 | 5, 10, 15, 20, 25, 30, 35 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n7A-n71  A-n77(3A) | | CA\_n77(2A)  CA\_n7A-n71A  CA\_n7A-n77A  CA\_n71A-n77A | n7 | 5, 10, 15, 20, 25, 30, 35, 40, 50 | 0 |
|  | |  | n71 | 5, 10, 15, 20, 25, 30, 35 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
| CA\_n8A-n28A-n78A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | n28 | 5, 10, 15, 20 |
|  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |
| CA\_n8A-n38A-n40A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n8A-n39A-n41A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 100 |  |
|  | |  | n8 | 5, 10, 15, 20 | 1 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n41 | 10, 15, 20, 40, 50, 60 |  |
| CA\_n8A-n39A-n79A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n8A-n40A-n41A | | CA\_n8A-n40A  CA\_n8A-n41A  CA\_n40A-n41A | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n8A-n40A-n78A | | CA\_n8A-n40A  CA\_n8A-n78A  CA\_n40A-n78A | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 30, 40, 50, 60, 80 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n8A-n41A-n79A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n8 | 5, 10, 15, 20 | 1 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n8A-n78A-n79A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n8A-n78(2A)-n79A | | - | n8 | 5, 10, 15, 20 | 0 |
|  | |  | n78 | CA\_n78(2A)\_BCS1 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n12A-n30A-n66A | | CA\_n12A-n30A  CA\_n12A-n66A  CA\_n30A-n66A | n12 | 5, 10, 15 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n12A-n30A-n66(2A) | | CA\_n12A-n30A  CA\_n12A-n66A  CA\_n30A-n66A | n12 | 5, 10, 15 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n12A-n30A-n66(3A) | | CA\_n12A-n30A  CA\_n12A-n66A  CA\_n30A-n66A | n12 | 5, 10, 15 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n12A-n30A-n77A | | n777  CA\_n12A-n30A,  CA\_n12A-n77A7  CA\_n30A-n77A7 | n12 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n12A-n30A-n77(2A) | | n777  CA\_n12A-n30A CA\_n12A-n77A7 CA\_n30A-n77A7 | n12 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n12A-n66A-n77A | | n777  CA\_n12A-n66A  CA\_n12A-n77A7 CA\_n66A-n77A7 | n12 | 5, 10, 15 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n12A-n66(2A)-n77A | | n777  CA\_n12A-n66A CA\_n12A-n77A7 CA\_n66A-n77A7 | n12 | 5, 10, 15 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n12A-n66A-n77(2A) | | n777  CA\_n12A-n66A CA\_n12A-n77A7 CA\_n66A-n77A7 | n12 | 5, 10, 15 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n12A-n66(2A)-n77(2A) | | n777  CA\_n12A-n66A CA\_n12A-n77A7 CA\_n66A-n77A7 | n12 | 5, 10, 15 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n12A-n66(3A)-n77A | | n777  CA\_n12A-n66A CA\_n12A-n77A7 CA\_n66A-n77A7 | n12 | 5, 10, 15 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n12A-n66(3A)-n77(2A) | | CA\_n12A-n66A  CA\_n12A-n77A  CA\_n66A-n77A | n12 | 5, 10, 15 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n13A-n25A-n66A | | CA\_n13A-n25A  CA\_n13A-n66A  CA\_n25A-n66A | n13 | 5, 10 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n13A-n25A-n77A | | CA\_n13A-n25A  CA\_n13A-n77A  CA\_n25A-n77A | n13 | 5, 10 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n13A-n25A-n77(2A) | | CA\_n77(2A)  CA\_n13A-n25A  CA\_n13A-n77A  CA\_n25A-n77A | n13 | 5, 10 | 0 |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n13A-n66A-n77A | | n777, 9  CA\_n13A-n66A  CA\_n13A-n77A  CA\_n66A-n77A | n13 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n13A-n66A-n77(2A) | | CA\_n77(2A)  CA\_n13A-n66A  CA\_n13A-n77A  CA\_n66A-n77A | n13 | 5, 10 | 0 |
|  | |  | n66 | 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n14A-n30A-n66A | | CA\_n14A-n30A  CA\_n14A-n66A  CA\_n30A-n66A | n14 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n14A-n30A-n66(2A) | | CA\_n14A-n30A  CA\_n14A-n66A  CA\_n30A-n66A | n14 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n14A-n30A-n66(3A) | | CA\_n14A-n30A  CA\_n14A-n66A  CA\_n30A-n66A | n14 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
| CA\_n14A-n30A-n77A | | n777  CA\_n14A-n30A  CA\_n14A-n77A7  CA\_n30A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n14A-n30A-n77(2A) | | n777  CA\_n14A-n30A  CA\_n14A-n77A7 CA\_n30A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n14A-n66A-n77A | | n777  CA\_n14A-n66A  CA\_n14A-n77A7  CA\_n66A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n14A-n66(2A)-n77A | | n777  CA\_n14A-n66A CA\_n14A-n77A7 CA\_n66A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n14A-n66A-n77(2A) | | n777  CA\_n14A-n66A CA\_n14A-n77A7 CA\_n66A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n14A-n66(2A)-n77(2A) | | n777  CA\_n14A-n66A CA\_n14A-n77A7 CA\_n66A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n14A-n66(3A)-n77A | | n777  CA\_n14A-n66A CA\_n14A-n77A7 CA\_n66A-n77A7 | n14 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n14A-n66(3A)-n77(2A) | | CA\_n14A-n66A  CA\_n14A-n77A  CA\_n66A-n77A | n14 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n18A-n28A-n41A | | CA\_n18A-n28A  CA\_n18A-n41A  CA\_n28A-n41A | n18 | 5, 10, 15 | 0 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n18A-n28A-n77A | | CA\_n18A-n28A  CA\_n18A-n41A  CA\_n28A-n41A | n18 | 5, 10, 15 | 0 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n18A-n28A-n77(2A) | | CA\_n18A-n28A  CA\_n18A-n77A  CA\_n28A-n77A | n18 | 5, 10, 15 | 0 |
|  | |  | n28 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n18A-n41A-n77A | | CA\_n18A-n28A  CA\_n18A-n41A  CA\_n28A-n41A | n18 | 5, 10, 15 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n18A-n41A-n77(2A) | | CA\_n18A-n41A  CA\_n18A-n77A  CA\_n41A-n77A | n18 | 5, 10, 15 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n20A-n28A-n78A | | - | n20 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n20A-n28A-n78C | | - | n20 | 5, 10, 15, 20 | 0 |
|  | |  | n28 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78C\_BCS1 |  |
| CA\_n24A-n41A-n48A | | CA\_n24A-n41A  CA\_n24A\_n48A  CA\_n41A\_n48A | n24 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n48 | 5, 10, 15, 20, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n24A-n41(2A)-n48A | | CA\_n24A-n41A  CA\_n24A\_n48A  CA\_n41A\_n48A | n24 | 5, 10 | 0 |
|  | |  | n41 | CA\_n41(2A) BCS1 |  |
|  | |  | n48 | 5, 10, 15, 20, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n24A-n41A-n48(2A) | | CA\_n24A-n41A  CA\_n24A\_n48A  CA\_n41A\_n48A | n24 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n48 | CA\_n48(2A) BCS0 |  |
| CA\_n24A-n41(2A)-n48(2A) | | CA\_n24A-n41A  CA\_n24A\_n48A  CA\_n41A\_n48A | n24 | 5, 10 | 0 |
|  | |  | n41 | CA\_n41(2A) BCS1 |  |
|  | |  | n48 | CA\_n48(2A) BCS0 |  |
| CA\_n24A-n41A-n77A | | CA\_n24A-n41A  CA\_n24A\_n77A  CA\_n41A\_n77A | n24 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n24A-n41(2A)-n77A | | CA\_n24A-n41A  CA\_n24A\_n77A  CA\_n41A\_n77A | n24 | 5, 10 | 0 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n24 | 5, 10 | 1 |
|  | |  | n41 | CA\_n41(2A) BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n24A-n41A-n77(2A) | | CA\_n24A-n41A  CA\_n24A\_n77A  CA\_n41A\_n77A | n24 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n24 | 5, 10 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) BCS0 |  |
| CA\_n24A-n41(2A)-n77(2A) | | CA\_n24A-n41A  CA\_n24A\_n77A  CA\_n41A\_n77A | n24 | 5, 10 | 0 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n24 | 5, 10 | 1 |
|  | |  | n41 | CA\_n41(2A) BCS1 |  |
|  | |  | n77 | CA\_n77(2A) BCS0 |  |
| CA\_n24A-n48A-n77A | |  | n24 | 5, 10 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n24A-n48(2A)-n77A | |  | n24 | 5, 10 | 0 |
|  | |  | n48 | CA\_n48(2A) BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n24A-n48A-n77(2A) | |  | n24 | 5, 10 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A) BCS0 |  |
| CA\_n24A-n48(2A)-n77(2A) | |  | n24 | 5, 10 | 0 |
|  | |  | n48 | CA\_n48(2A) BCS0 |  |
|  | |  | n77 | CA\_n77(2A) BCS0 |  |
| CA\_n25A-n29A-n66A | | CA\_n25A-n66A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n29 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n25A-n38A-n66A | | CA\_n25A-n38A  CA\_n25A-n66A  CA\_n38A-n66A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n25(2A)-n38A-n66A | | CA\_n25A-n38A  CA\_n25A-n66A  CA\_n38A-n66A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n25(2A)-n38A-n66(2A) | | CA\_n25A-n38A  CA\_n25A-n66A  CA\_n38A-n66A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n25A-n38A-n66(2A) | | CA\_n25A-n38A  CA\_n25A-n66A  CA\_n38A-n66A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n38 | 5, 10, 15, 20 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n25A-n38A-n78A | | CA\_n25A-n38A  CA\_n25A-n78A  CA\_n38A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25A-n38A-n78(2A) | | CA\_n25A-n38A  CA\_n25A-n78A  CA\_n38A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25(2A)-n38A-n78A | | CA\_n25A-n38A  CA\_n25A-n78A  CA\_n38A-n78A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25(2A)-n38A-n78(2A) | | CA\_n25A-n38A  CA\_n25A-n78A  CA\_n38A-n78A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25A-n41A-n66A | | n417,9  CA\_n25A-n41A7  CA\_n25A-n66A  CA\_n41A-n66A7 | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41A-n66(2A) | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
| CA\_n25A-n41C-n66A | | n417,9  CA\_n25A-n41A7  CA\_n25A-n66A  CA\_n41A-n66A7  CA\_n41C | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | CA\_n41C\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | CA\_n41C\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41(2A)-n66A | | n417,9  CA\_n25A-n41A7  CA\_n25A-n66A  CA\_n41A-n66A7 | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41(2A)-n66(2A) | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
| CA\_n25A-n41(3A)-n66A | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(3A) BCS 4 and 5 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41C-n66(2A) | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A  CA\_n41C | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
| CA\_n25A-n41(A-C)-n66A | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A  CA\_n41C | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(A-C) BCS 4 and 5 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41A-n66A | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A | n25 | CA\_n25(2A)\_BCS1 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | CA\_n25(2A)\_BCS1 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 30, 40 |  |
|  | |  | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41(2A)-n66A | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41C-n66A | | CA\_n25A-n41A  CA\_n25A-n66A  CA\_n41A-n66A  CA\_n41C | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41A-n71A | | n417,9  CA\_n25A-n41A7  CA\_n41A-n71A7  CA\_n25A-n71A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41A-n71B | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | |  | n25 | 5, 10, 15, 20, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n25A-n41A-n71(2A) | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | |  | n25 | 5, 10, 15, 20, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n25A-n41(2A)-n71A | | n417,9  CA\_n25A-n41A7  CA\_n41A-n71A7  CA\_n25A-n71A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41(2A)-n71B | | CA\_n25A-n41A  CA\_n25A-n71A  CA\_n41A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n25A-n41(2A)-n71(2A) | | CA\_n25A-n41A  CA\_n25A-n71A  CA\_n41A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n25A-n41(3A)-n71A | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(3A) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41C-n71A | | n417,9  CA\_n25A-n41A7  CA\_n41A-n71A7  CA\_n25A-n71A  CA\_n41C7 | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | CA\_n41C\_BCS0 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | CA\_n41C\_BCS1 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41C-n71B | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A  CA\_n41C | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n25A-n41C-n71(2A) | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A  CA\_n41C | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n25A-n41(A-C)-n71A | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A  CA\_n41C | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(A-C) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41A-n71A | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A | n25 | CA\_n25(2A)\_BCS1 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | CA\_n25(2A)\_BCS1 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41(2A)-n71A | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41C-n71A | | CA\_n25A-n41A  CA\_n41A-n71A  CA\_n25A-n71A  CA\_n41C | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41A-n77A | | n417,9  n777,9  CA\_n25A-n41A7  CA\_n25A-n77A7  CA\_n41A-n77A7 | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41(2A)-n77A | | CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | CA\_n41(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41(3A)-n77A | | CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(3A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41A-n77(2A) | | CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25A-n41(2A)-n77(2A) | | CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25(2A)-n41A-n77A | | n417,9  n777,9  CA\_n25A-n41A7  CA\_n25A-n77A7  CA\_n41A-n77A7 | n25 | CA\_n25(2A)\_BCS1 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41A-n77(2A) | | CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25(2A)-n41C-n77A | | CA\_n41C  CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n41(2A)-n77A | | CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41C-n77A | | CA\_n41C  CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | CA\_n41C\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | CA\_n41C\_BCS2 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41(A-C)-n77A | | CA\_n41C  CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41(A-C) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n41C-n77(2A) | | CA\_n41C  CA\_n25A-n41A  CA\_n25A-n77A  CA\_n41A-n77A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n41 | CA\_n41C BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25A-n41A-n78A | | CA\_n25A-n41A  CA\_n25A-n78A  CA\_n41A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25A-n41A-n78(2A) | | CA\_n25A-n41A  CA\_n25A-n78A  CA\_n41A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25A-n48A-n66A | | CA\_n25A-n48A  CA\_n25A-n66A  CA\_n48A-n66A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 40, 50 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n48 | 5, 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n25A-n48(2A)-n66A | | CA\_n25A-n48A  CA\_n25A-n66A  CA\_n48A-n66A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n25A-n48C-n66A | | CA\_n25A-n48A  CA\_n25A-n66A  CA\_n48A-n66A | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n25A-n66A-n71A | | - | n25 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n66A-n71B | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n25A-n66A-n71(2A) | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n25A-n66(2A)-n71A | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n66A-n71A | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | CA\_n25(2A)\_BCS1 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n66A-n71A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n66A-n77A | | n777,9  CA\_n25A-n66A  CA\_n25A-n77A7  CA\_n66A-n77A7 | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n66(2A)-n77A | | CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n66A-n77(2A) | | n777,9  CA\_n25A-n66A  CA\_n25A-n77A7  CA\_n66A-n77A7 | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25A-n66A-n77(3A) | | CA\_n77(2A)  CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n25A-n66(2A)-n77(2A) | | CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25(2A)-n66A-n77A | | CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n66(2A)-n77A | | CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25(2A)-n66A-n77(2A) | | CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25(2A)-n66(2A)-n77(2A) | | CA\_n25A-n66A  CA\_n25A-n77A  CA\_n66A-n77A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n25A-n66A-n78A | | CA\_n25A-n66A  CA\_n25A-n78A  CA\_n66A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n25 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25(2A)-n66A-n78A | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25A-n66(2A)-n78A | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25A-n66A-n78(2A) | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25(2A)-n66(2A)-n78A | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25(2A)-n66A-n78(2A) | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25A-n66(2A)-n78(2A) | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25(2A)-n66(2A)-n78(2A) | | CA\_n25A-n66A CA\_n25A-n78A CA\_n66A-n78A | n25 | CA\_n25(2A)\_BCS0 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n25A-n71A-n77A | | n777,9  CA\_n25A-n71A  CA\_n25A-n77A7  CA\_n71A-n77A7 | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n71A-n77(2A) | | CA\_n77(2A)  CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A) BCS1 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25A-n71A-n77(3A) | | CA\_n77(2A)  CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(3A) BCS1 |  |
| CA\_n25A-n71B-n77A | | CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n71B-n77(2A) | | CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25A-n71(2A)-n77A | | CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25A-n71(2A)-n77(2A) | | CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | n25 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25(2A)-n71A-n77A | | CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | CA\_n25(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n25(2A)-n71A-n77(2A) | | CA\_n25A-n71A  CA\_n25A-n77A  CA\_n71A-n77A | n25 | CA\_n25(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n25A-n71A-n78A | | CA\_n25A-n71A  CA\_n25A-n78A  CA\_n71A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n25A-n71A-n78(2A) | | CA\_n25A-n71A  CA\_n25A-n78A  CA\_n71A-n78A | n25 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n26A-n66A-n70A | | CA\_n26A-n66A  CA\_n26A-n70A | n26 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n26A-n66(2A)-n70A | | CA\_n26A-n66A  CA\_n26A-n70A | n26 | 5, 10, 15, 20 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n28A-n38A-n78A | | - | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n38 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n39A-n40A | | - | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100 |  |
| CA\_n28A-n39A-n41A | | CA\_n28A-n39A  CA\_n28A-n41A  CA\_n39A-n41A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n39A-n41C | | CA\_n28A-n39A  CA\_n28A-n41A  CA\_n39A-n41A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n41 | CA\_n41C\_BCS1 |  |
| CA\_n28A-n39A-n79A | | - | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n40A-n41A | | CA\_n28A-n40A  CA\_n28A-n41A  CA\_n40A-n41A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n40A-n78A | | CA\_n28A-n40A  CA\_n28A-n78A  CA\_n40A-n78A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n28A-n40A  CA\_n28A-n78A  CA\_n40A-n78A | n28 | 5, 10, 15, 20 | 1 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n28A-n40A-n77A | | CA\_n28A-n40A  CA\_n28A-n77A  CA\_n40A-n77A | n28 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n40A-n77(2A) | | CA\_n28A-n40A  CA\_n28A-n77A  CA\_n40A-n77A | n28 | 5, 10, 15, 20, 25, 30 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n28A-n40B-n78A | | - | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n40 | CA\_n40B\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n28A-n40A-n79A | | CA\_n28A-n40A  CA\_n28A-n79A  CA\_n40A-n79A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n40 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n41A-n77A | | CA\_n28A-n41A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | | CA\_n28A-n77A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n41A-n77A | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n41B-n77A | | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n41A-n77A | n28 | 5, 10 | 0 |
|  | |  | n41 | CA\_n41B\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n41A-n77(2A) | | CA\_n28A-n41A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | | CA\_n28A-n77A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | | CA\_n41A-n77A | n77 | CA\_n77(2A)\_BCS0 |  |
| CA\_n28A-n41A-n77(3A) | | CA\_n28A-n41A  CA\_n28A-n77A  CA\_n41A-n77A | n28 | 5, 10 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n28A-n41A-n78A | | CA\_n28A-n41A  CA\_n41A-n78A  CA\_n28A-n78A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 90, 100 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
| CA\_n28A-n41A-n78(2A) | | CA\_n78(2A) | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n28A-n41A-n79A | | CA\_n28A-n41A  CA\_n28A-n79A  CA\_n41A-n79A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n41A-n79C | | - | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n28A-n41C-n79A | | CA\_n28A-n41A  CA\_n28A-n79A  CA\_n41A-n79A | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n41 | CA\_n41C\_BCS1 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n41C-n79C | | - | n28 | 5, 10, 15, 20, 30 | 0 |
|  | |  | n41 | CA\_n41C\_BCS1 |  |
|  | |  | n79 | CA\_n79C\_BCS0 |  |
| CA\_n28A-n46A-n78A | | CA\_n28A-n46A  CA\_n28A-n78A  CA\_n46A-n78A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n46 | 20, 40, 60, 80 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n46C-n78A | | CA\_n28A-n46A  CA\_n28A-n78A  CA\_n46A-n78A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n46 | CA\_n46C\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n46D-n78A | | CA\_n28A-n46A  CA\_n28A-n78A  CA\_n46A-n78A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n46 | CA\_n46D\_BCS0 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n28A-n77A-n79A4 | | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n77A-n79A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n77(2A)-n79A4 | | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n77A-n79A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n77(3A)-n79A4 | | CA\_n28A-n77A  CA\_n28A-n79A  CA\_n77A-n79A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n28A-n78A-n79A | | CA\_n28A-n78A  CA\_n28A-n79A  CA\_n78A-n79A | n28 | 5, 10, 15, 20 | 0 |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n29A-n30A-n66A | | CA\_n30A-n66A | n29 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
| CA\_n29A-n30A-n66(2A) | | CA\_n30A-n66A | n29 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
| CA\_n29A-n30A-n77A | | n777  CA\_n30A-n77A7 | n29 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n29A-n30A-n77(2A) | | n777  CA\_n30A-n77A7 | n29 | 5, 10 | 0 |
|  | |  | n30 | 5, 10 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n29A-n66A-n70A | | - | n29 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n70 | 5, 10, 15, 201,251 |  |
| CA\_n29A-n66B-n70A | | - | n29 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66B\_BCS0 |  |
|  | |  | n70 | 5, 10, 15, 201,251 |  |
| CA\_n29A-n66(2A)-n70A | | - | n29 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  | |  | n70 | 5, 10, 15, 201,251 |  |
| CA\_n29A-n66A-n77A | | n777  CA\_n66A-n77A7 | n29 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n29A-n66(2A)-n77A | | n777  CA\_n66A-n77A7 | n29 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n29A-n66A-n77(2A) | | n777  CA\_n66A-n77A7 | n29 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n29A-n66(3A)-n77A | | CA\_n66A-n77A | n29 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n29A-n66(2A)-n77(2A) | | CA\_n66A-n77A | n29 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n29A-n66(3A)-n77(2A) | | CA\_n66A-n77A | n29 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n29A-n70A-n71A | | CA\_n70A-n71A | n29 | 5, 10 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n30A-n66A-n77A | | n777  CA\_n30A-n66A  CA\_n30A-n77A7  CA\_n66A-n77A7 | n30 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n30A-n66(2A)-n77A | | n777  CA\_n30A-n66A CA\_n30A-n77A7 CA\_n66A-n77A7 | n30 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n30A-n66A-n77(2A) | | n777  CA\_n30A-n66A CA\_n30A-n77A7 CA\_n66A-n77A7 | n30 | 5, 10 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n30A-n66(2A)-n77(2A) | | n777  CA\_n30A-n66A CA\_n30A-n77A7 CA\_n66A-n77A7 | n30 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n30A-n66(3A)-n77A | | n777  CA\_n30A-n66A CA\_n30A-n77A7 CA\_n66A-n77A7 | n30 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n30A-n66(3A)-n77(2A) | | CA\_n30A-n66A  CA\_n30A-n77A  CA\_n66A-n77A | n30 | 5, 10 | 0 |
|  | |  | n66 | CA\_n66(3A)\_BCS0 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
| CA\_n38A-n66A-n78A | | CA\_n38A-n66A  CA\_n38A-n78A  CA\_n66A-n78A | n38 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n38A-n66A-n78(2A) | | CA\_n38A-n66A  CA\_n38A-n78A  CA\_n66A-n78A | n38 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n38A-n66(2A)-n78A | | CA\_n38A-n66A  CA\_n38A-n78A  CA\_n66A-n78A | n38 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n38A-n66(2A)-n78(2A) | | CA\_n38A-n66A  CA\_n38A-n78A  CA\_n66A-n78A | n38 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n39A-n40A-n41A | | CA\_n39A-n40A  CA\_n39A-n41A  CA\_n40A-n41A | n39 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
| CA\_n39A-n40A-n79A | | CA\_n39A-n40A  CA\_n40A-n79A  CA\_n39A-n79A | n39 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n39A-n41A-n79A | | CA\_n39A-n41A  CA\_n39A-n79A  CA\_n41A-n79A | n39 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
|  | |  | n39 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n40A-n41A-n79A | | CA\_n40A-n41A  CA\_n40A-n79A  CA\_n41A-n79A | n40 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80 | 0 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60, 80, 100 |  |
|  | |  | n79 | , 40, 50, 60, 80, 100 |  |
|  | |  | n40 | 5, 10, 15, 20, 25, 30, 40 | 1 |
|  | |  | n41 | 10, 15, 20, 40, 50, 60 |  |
|  | |  | n79 | , 40, 50, 60, 80, 100 |  |
| CA\_n41A-n66A-n70A | | CA\_n41A-n66A  CA\_n41A-n70A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 10, 15, 20, 25, 30, 40 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n41A-n66A-n71A | | n417,9  CA\_n41A-n71A7  CA\_n66A-n71A  CA\_n41A-n66A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n66A-n71B | | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n66A-n71A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n41A-n66A-n71(2A) | | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n66A-n71A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n41A-n66(2A)-n71A | | CA\_n41A-n66A  CA\_n66A-n71A  CA\_n41A-n71A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n66A-n71A | | n417,9  CA\_n41A-n71A7  CA\_n66A-n71A  CA\_n41A-n66A7 | n41 | CA\_n41(2A)\_BCS1 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | CA\_n41(2A)\_BCS1 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n66A-n71B | | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n66A-n71A | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n41(2A)-n66A-n71(2A) | | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n66A-n71A | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n41(2A)-n66(2A)-n71A | | CA\_n41A-n71A  CA\_n66A-n71A  CA\_n41A-n66A | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(3A)-n66A-n71A | | CA\_n41A-n71A  CA\_n66A-n71A  CA\_n41A-n66A | n41 | CA\_n41(3A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n66A-n71A | | n417,9  CA\_n41A-n71A7  CA\_n66A-n71A  CA\_n41A-n66A7  CA\_n41C | n41 | CA\_n41C\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | CA\_n41C\_BCS1 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n66A-n71B | | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n66A-n71A  CA\_n41C | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
| CA\_n41C-n66A-n71(2A) | | CA\_n41A-n66A  CA\_n41A-n71A  CA\_n66A-n71A  CA\_n41C | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
| CA\_n41C-n66(2A)-n71A | | CA\_n41A-n71A  CA\_n66A-n71A  CA\_n41A-n66A  CA\_n41C | n66 | CA\_n66(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n41 | CA\_n41(A-C) BCS 4 and 5 |  |
| CA\_n41(A-C)-n66A-n71A | | CA\_n41A-n71A  CA\_n66A-n71A  CA\_n41A-n66A  CA\_n41C | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
| CA\_n41A-n66A-n77A | | n417,9  n777,9  CA\_n41A-n66A7  CA\_n41A-n77A7  CA\_n66A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n66A-n77(2A) | | CA\_n41A-n77A  CA\_n66A-n77A  CA\_n41A-n66A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41A-n66(2A)-n77A | | n417,9  n777,9  CA\_n41A-n66A7  CA\_n41A-n77A7  CA\_n66A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n66(2A)-n77(2A) | | CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41(2A)-n66A-n77A | | CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41(2A)\_BCS1 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n66(2A)-n77A | | CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n66A-n77(2A) | | CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41(3A)-n66A-n77A | | CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41(3A) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n66A-n77A | | CA\_41C  CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41C\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n66(2A)-n77A | | CA\_n41C  CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | CA\_n66(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n66A-n77(2A) | | CA\_n41C  CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41(A-C)-n66A-n77A | | CA\_n41C  CA\_n41A-n66A  CA\_n41A-n77A  CA\_n66A-n77A | n41 | CA\_n41(A-C) BCS 4 and 5 | 4 and 5 |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n66A-n78A | | CA\_n41A-n66A  CA\_n41A-n78A  CA\_n66A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n41A-n66A-n78(2A) | | CA\_n41A-n66A  CA\_n41A-n78A  CA\_n66A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n41A-n66(2A)-n78A | | CA\_n41A-n66A  CA\_n41A-n78A  CA\_n66A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n41A-n66(2A)-n78(2A) | | CA\_n41A-n66A  CA\_n41A-n78A  CA\_n66A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS1 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n41A-n70A-n78A | | CA\_n41A-n70A  CA\_n41A-n78A  CA\_n70A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n70 | 5, 10, 15, 20, 25 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n41A-n71A-n77A | | n417,9  n777,9  CA\_n41A-n71A7  CA\_n41A-n77A7  CA\_n71A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n71B-n77A | | CA\_n41A-n71A7  CA\_n41A-n77A7  CA\_n71A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n71B-n77(2A) | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71B\_BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS 4 and 5 |  |
| CA\_n41A-n71(2A)-n77A | | n417,9  n777,9  CA\_n41A-n71A7  CA\_n41A-n77A7  CA\_n71A-n77A7 | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n71A-n77(2A) | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41(2A)-n71A-n77A | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n71B-n77A | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41(2A)\_BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | CA\_n71B\_BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n71(2A)-n77A | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41(2A)\_BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A)\_BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41(2A)-n71A-n77(2A) | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41(3A)-n71A-n77A | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41(3A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n71(2A)-n77(2A) | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | n41 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A)\_BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS 4 and 5 |  |
| CA\_n41C-n71A-n77A | | CA\_41C  CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41C\_BCS0 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n71B-n77A | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n41C  CA\_n71A-n77A | n41 | CA\_n41C\_BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | CA\_n71B\_BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n71(2A)-n77A | | CA\_n41A-n71A  CA\_n41A-n77A  CA\_n41C  CA\_n71A-n77A | n41 | CA\_n41C\_BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A)\_BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41C-n71A-n77(2A) | | CA\_41C  CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41C BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n41(A-C)-n71A-n77A | | CA\_41C  CA\_n41A-n71A  CA\_n41A-n77A  CA\_n71A-n77A | n41 | CA\_n41(A-C) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n41A-n71A-n78A | | CA\_n41A-n71A  CA\_n41A-n78A  CA\_n71A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n41A-n71A-n78(2A) | | CA\_n41A-n71A  CA\_n41A-n78A  CA\_n71A-n78A | n41 | 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n41A-n77A-n79A | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n77A-n79A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | 10, 15, 20, 40, 50, 60, 80, 90, 100 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n41A-n77(2A)-n79A | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n77A-n79A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | CA\_n77(2A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n41A-n77(3A)-n79A | | CA\_n41A-n77A  CA\_n41A-n79A  CA\_n77A-n79A | n41 | 10, 15, 20, 30, 40, 50, 60, 80, 90, 100 | 0 |
|  | |  | n77 | CA\_n77(3A)\_BCS0 |  |
|  | |  | n79 | 40, 50, 60, 80, 100 |  |
| CA\_n46A-n48A-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46B-n48A-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46C-n48A-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46D-n48A-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46M-n48A-n96A | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46N-n48A-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46A-n48B-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46B-n48B-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46C-n48B-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46D-n48B-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46M-n48B-n96A | |  | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46N-n48B-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46A-n48C-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46B-n48C-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46C-n48C-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46D-n48C-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46M-n48C-n96A | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46N-n48C-n96A | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46A-n48A-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46B-n48A-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46C-n48A-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46D-n48A-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46M-n48A-n96B | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46N-n48A-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46A-n48A-n96C | | - | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46B-n48A-n96C | | - | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46C-n48A-n96C | | - | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46D-n48A-n96C | | - | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46M-n48A-n96C | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46N-n48A-n96C | | - | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46A-n48B-n96C | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46B-n48B-n96C | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46C-n48B-n96C | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46D-n48B-n96C | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46M-n48B-n96C | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46N-n48B-n96C | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48B\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46A-n48C-n96C | | - | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46B-n48C-n96C | | - | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46C-n48C-n96C | | - | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46D-n48C-n96C | | - | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46M-n48C-n96C | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46N-n48C-n96C | | - | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46A-n48A-n96D | | - | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46B-n48A-n96D | | - | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46C-n48A-n96D | | - | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46D-n48A-n96D | | - | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46M-n48A-n96D | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46N-n48A-n96D | | - | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46A-n48C-n96D | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46B-n48C-n96D | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46C-n48C-n96D | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46D-n48C-n96D | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46M-n48C-n96D | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46N-n48C-n96D | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46A-n48A-n96E | | - | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46B-n48A-n96E | | - | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46C-n48A-n96E | | - | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46D-n48A-n96E | | - | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46M-n48A-n96E | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46N-n48A-n96E | | - | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46A-n48C-n96E | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46B-n48C-n96E | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46C-n48C-n96E | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46D-n48C-n96E | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46M-n48C-n96E | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46N-n48C-n96E | | CA\_n48B  CA\_n46A-n48A  CA\_n48A-n96A  CA\_n46A-n48B  CA\_n48B-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48C\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46A-n48(2A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46B-n48(2A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46C-n48(2A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46D-n48(2A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46M-n48(2A)-n96A | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46N-n48(2A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46A-n48(2A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46B-n48(2A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46C-n48(2A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46D-n48(2A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46M-n48(2A)-n96B | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46N-n48(2A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46A-n48(2A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46B-n48(2A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46C-n48(2A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46D-n48(2A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46M-n48(2A)-n96C | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46N-n48(2A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46A-n48(2A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46B-n48(2A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46C-n48(2A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46D-n48(2A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46M-n48(2A)-n96D | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46N-n48(2A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46A-n48(2A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46B-n48(2A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46C-n48(2A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46D-n48(2A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46M-n48(2A)-n96E | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46N-n48(2A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(2A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46A-n48(3A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46B-n48(3A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46C-n48(3A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46D-n48(3A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46M-n48(3A)-n96A | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46N-n48(3A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46A-n48(3A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46B-n48(3A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46C-n48(3A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46D-n48(3A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46M-n48(3A)-n96B | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46N-n48(3A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46A-n48(3A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46B-n48(3A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46C-n48(3A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46D-n48(3A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46M-n48(3A)-n96C | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46N-n48(3A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46A-n48(3A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46B-n48(3A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46C-n48(3A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46D-n48(3A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46M-n48(3A)-n96D | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46N-n48(3A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46A-n48(3A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46B-n48(3A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46C-n48(3A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46D-n48(3A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46M-n48(3A)-n96E | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46N-n48(3A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(3A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46A-n48(4A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46B-n48(4A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46C-n48(4A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46D-n48(4A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46M-n48(4A)-n96A | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46N-n48(4A)-n96A | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | 20, 40, 60, 80 |  |
| CA\_n46A-n48(4A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46B-n48(4A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46C-n48(4A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46D-n48(4A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46M-n48(4A)-n96B | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46N-n48(4A)-n96B | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96B\_BCS0 |  |
| CA\_n46A-n48(4A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46B-n48(4A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46C-n48(4A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46D-n48(4A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46M-n48(4A)-n96C | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46N-n48(4A)-n96C | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96C\_BCS0 |  |
| CA\_n46A-n48(4A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46B-n48(4A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46C-n48(4A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46D-n48(4A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46M-n48(4A)-n96D | |  | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46N-n48(4A)-n96D | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96D\_BCS0 |  |
| CA\_n46A-n48(4A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | 10, 20, 40, 60, 80 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46B-n48(4A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46B\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46C-n48(4A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46C\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46D-n48(4A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46D\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46M-n48(4A)-n96E | | - | n46 | CA\_n46M\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n46N-n48(4A)-n96E | | CA\_n46A-n48A  CA\_n48A-n96A | n46 | CA\_n46N\_BCS0 | 0 |
|  | |  | n48 | CA\_n48(4A)\_BCS0 |  |
|  | |  | n96 | CA\_n96E\_BCS0 |  |
| CA\_n48A-n66A-n70A | | CA\_n48A-n66A  CA\_n48A-n70A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n48A-n66(2A)-n70A | | CA\_n48A-n66A  CA\_n48A-n70A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n48(2A)-n66A-n70A | | CA\_n48A-n66A  CA\_n48A-n70A | n48 | CA\_n48(2A)\_BCS1 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n48B-n66A-n70A | | CA\_n48A-n66A  CA\_n48A-n70A | n48 | CA\_n48B\_BCS2 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n48A-n66A-n71A | | CA\_n48A-n71A  CA\_n66A-n71A  CA\_n48A-n66A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48A-n66(2A)-n71A | | CA\_n48A-n71A  CA\_n66A-n71A  CA\_n48A-n66A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48(2A)-n66A-n71A | | CA\_n48A-n71A  CA\_n66A-n71A  CA\_n48A-n66A | n48 | CA\_n48(2A)\_BCS1 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48B-n66A-n71A | | CA\_n48A-n71A  CA\_n66A-n71A  CA\_n48A-n66A | n48 | CA\_n48B\_BCS2 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48A-n66A-n71(2A) | | CA\_n48A-n71A  CA\_n66A-n71A  CA\_n48A-n66A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
| CA\_n48A-n66A-n77A | | n777, 9  CA\_n48A-n66A  CA\_n66A-n77A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48A-n66(2A)-n77A | | CA\_n48A-n66A  CA\_n66A-n77A | n48 | 5, 10, 15, 20, 30, 40, 501, 601, 701 , 801, 901, 1001 | 0 |
|  | |  | n66 | CA\_n66(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48A-n66A-n77C | | CA\_n48A-n66A  CA\_n66A-n77A  CA\_n77C | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n48B-n66A-n77C | | CA\_n48A-n66A  CA\_n66A-n77A  CA\_n77C | n48 | CA\_n48B\_BCS2 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n48B-n66A-n77A | | CA\_n48A-n66A  CA\_n66A-n77A | n48 | CA\_n48B\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n48 | CA\_n48B\_BCS1 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n48 | CA\_n48B\_BCS2 | 2 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48(2A)-n66A-n77A | | CA\_n48A-n66A  CA\_n66A-n77A | n48 | CA\_n48(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n48 | CA\_n48(2A)\_BCS1 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48(2A)-n66A-n77C | | CA\_n48A-n66A  CA\_n66A-n77A | n48 | CA\_n48(2A)\_BCS0 | 0 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n48 | CA\_n48(2A)\_BCS0 | 1 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
|  | |  | n48 | CA\_n48(2A)\_BCS1 | 2 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS0 |  |
|  | |  | n48 | CA\_n48(2A)\_BCS1 | 3 |
|  | |  | n66 | 5, 10, 15, 20, 25, 30, 40 |  |
|  | |  | n77 | CA\_n77C\_BCS1 |  |
| CA\_n48A-n70A-n71A | | CA\_n48A-n71A  CA\_n70A-n71A  CA\_n48A-n70A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48(2A)-n70A-n71A | | CA\_n48A-n71A  CA\_n70A-n71A  CA\_n48A-n70A | n48 | CA\_n48(2A)\_BCS1 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48B-n70A-n71A | | CA\_n48A-n71A  CA\_n70A-n71A  CA\_n48A-n70A | n48 | CA\_n48B\_BCS2 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n48A-n70A-n71(2A) | | CA\_n48A-n71A  CA\_n70A-n71A  CA\_n48A-n70A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
| CA\_n48A-n70A-n77A | | CA\_n48A-n70A  CA\_n70A-n77A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n70 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48(2A)-n70A-n77A | | CA\_n48A-n70A  CA\_n70A-n77A | n48 | CA\_n48(2A)\_BCS1 | 0 |
|  | |  | n70 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48(2A)-n71A-n77A | | CA\_n48A-n71A  CA\_n71A-n77A | n48 | CA\_n48(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n48A-n71A-n77A | | CA\_n48A-n71A  CA\_n71A-n77A | n48 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n66A-n70A-n71A | | CA\_n66A-n71A  CA\_n70A-n71A | n66 | 5, 10, 15, 20, 40 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n66A-n70A-n78A | | CA\_n66A-n78A CA\_n70A-n78A | n66 | 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n66A-n70A-n71(2A) | | CA\_n66A-n71A  CA\_n70A-n71A | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
| CA\_n66B-n70A-n71A | | CA\_n66A-n71A  CA\_n70A-n71A | n66 | CA\_n66B\_BCS0 | 0 |
|  | |  | n70 | 5, 10, 15, 201,251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n66(2A)-n70A-n71A | | CA\_n66A-n71A  CA\_n70A-n71A | n66 | CA\_n66(2A)\_BCS0 | 0 |
|  | |  | n70 | 5, 10, 15, 201, 251 |  |
|  | |  | n71 | 5, 10, 15, 20 |  |
| CA\_n66A-n70A-n77A | | CA\_n66A-n77A  CA\_n70A-n77A | n66 | 5, 10, 15, 20, 25, 30, 35, 40 | 0 |
|  | |  | n70 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n66(2A)-n70A-n77A | | CA\_n66A-n77A  CA\_n70A-n77A | n66 | CA\_n66(2A)\_BCS0 | 0 |
|  | |  | n70 | 5, 10, 15, 20, 25 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n66A-n71A-n77A | | n777,9  CA\_n66A-n71A  CA\_n66A-n77A7  CA\_n71A-n77A7 | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n66A-n71B-n77A | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | CA\_n71B\_BCS2 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n66A-n71B-n77(2A) | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71B BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n66A-n71(2A)-n77A | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | CA\_n71(2A)\_BCS0 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n66A-n71(2A)-n77(2A) | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | CA\_n71(2A) BCS 4 and 5 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n66(2A)-n71A-n77A | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | CA\_n66(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
|  | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | CA\_n66(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | n77 channel bandwidths in Table 5.3.5-1 |  |
| CA\_n66A-n71A-n77(2A) | | n777,9  CA\_n66A-n71A  CA\_n66A-n77A7  CA\_n71A-n77A7 | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | |  | n66 | n66 channel bandwidths in Table 5.3.5-1 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n66A-n71A-n77(3A) | | CA\_n77(2A)  CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(3A)\_BCS1 |  |
| CA\_n66(2A)-n71A-n77(2A) | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | CA\_n66(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | CA\_n77(2A)\_BCS1 |  |
|  | | CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n66 | CA\_n66(2A) BCS 4 and 5 | 4 and 5 |
|  | |  | n71 | n71 channel bandwidths in Table 5.3.5-1 |  |
|  | |  | n77 | CA\_n77(2A) BCS 4 and 5 |  |
| CA\_n66A-n71A-n78A | | CA\_n66A-n78A  CA\_n66A-n71A  CA\_n71A-n78A | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n66A-n71A-n78(2A) | | CA\_n66A-n78A  CA\_n66A-n71A  CA\_n71A-n78A | n66 | 5, 10, 15, 20, 25, 30, 40 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n66(2A)-n71A-n78A | | CA\_n66A-n78A  CA\_n66A-n71A  CA\_n71A-n78A | n66 | CA\_n66(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| CA\_n66(2A)-n71A-n78(2A) | | CA\_n66A-n78A  CA\_n66A-n71A  CA\_n71A-n78A | n66 | CA\_n66(2A)\_BCS1 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n78 | CA\_n78(2A)\_BCS2 |  |
| CA\_n70A-n71A-n77A | | CA\_n70A-n71A  CA\_n70A-n77A  CA\_n71A-n77A | n70 | 5, 10, 15, 20, 25 | 0 |
|  | |  | n71 | 5, 10, 15, 20 |  |
|  | |  | n77 | 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |  |
| NOTE 1: This UE channel bandwidth is applicable only to downlink  NOTE 2: For the 20 MHz bandwidth, the minimum requirements are specified for NR UL carrier frequencies confined to either 713-723 MHz or 728-738 MHz.  NOTE 3: The SCS of each channel bandwidth for NR band refers to Table 5.3.5-1.  NOTE 4: The minimum requirements only apply for non-simultaneous Tx/Rx between all carriers for TDD combinations.  NOTE 5: Simultaneous Rx/Tx capability for TDD combinations does not apply for UEs supporting band n78 with an n77 implementation.  NOTE 6: Only single uplink carriers with power class other than PC3 are listed.  NOTE 7: Power Class 2 is allowed for this uplink combination or single uplink carrier in this downlink/uplink combination  NOTE 8: For this bandwidth, the minimum requirements are restricted to operation when carrier is configured as an SCell part of DC or CA configuration.  NOTE 9: Power Class 1.5 is allowed for single uplink carrier in this downlink/uplink combination  NOTE 10: For a band combination which include band n7 and n38 simultaneously, carriers in band n7 and n38 can only be configured as downlink carriers. Power imbalance between downlink carriers on Band n7 and Band n38 is assumed to be within 6dB.  NOTE 11: UL carrier shall be supported in Band n28 only. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within 6dB. | | | | | |

### *<< Next changes >>*

## 5.5B Configurations for DC

For an NR DC configuration specified in 5.5B.1-1, the bandwidth combination sets for the corresponding NR CA configuration in 5.5A.3,i.e.,dual uplink inter-band carrier aggregation with uplink assigned to two NR bands, are applicable to Dual Connectivity.

Table 5.5B.1-1: Inter-band NR DC configurations (two bands)

| NR DC  configuration | Uplink NR DC  configuration |
| --- | --- |
| DC\_n1A-n3A | DC\_n1A-n3A |
| DC\_n1A-n7A | DC\_n1A-n7A |
| DC\_n1A-n28A | DC\_n1A-n28A |
| DC\_n1A-n41A | DC\_n1A-n41A |
| DC\_n1A-n77A2 | DC\_n1A-n77A |
| DC\_n1A-n78A | DC\_n1A-n78A |
| DC\_n1A-n78(2A) | DC\_n1A-n78A |
| DC\_n1A-n79A2 | DC\_n1A-n79A |
| DC\_n2A-n5A  DC\_n2A-n5B | DC\_n2A-n5A |
| DC\_n2A-n48A  DC\_n2A-n48B  DC\_n2A-n48C | DC\_n2A-n48A |
| DC\_n2A-n48(2A)  DC\_n2A-n48(A-C) | DC\_n2A-n48A |
| DC\_n2A-n66A  DC\_n2A-n66B | DC\_n2A-n66A |
| DC\_n2A-n77A  DC\_n2A-n77C | DC\_n2A-n77A |
| DC\_n2A-n77(2A)  DC\_n2A-n77(3A)  DC\_n2(2A)-n77A  DC\_n2(2A)-n77C | DC\_n2A-n77A |
| DC\_n3A-n7A | DC\_n3A-n7A |
| DC\_n3A-n28A | DC\_n3A-n28A |
| DC\_n3A-n41A | DC\_n3A-n41A |
| DC\_n3A-n77A2 | DC\_n3A-n77A |
| DC\_n3A-n77(2A) 2 | DC\_n3A-n77A |
| DC\_n3A-n78A2 | DC\_n3A-n78A |
| DC\_n3A-n78(2A)2 | DC\_n3A-n78A |
| DC\_n3A-n79A | DC\_n3A-n79A |
| DC\_n5A-n48A  DC\_n5A-n48B  DC\_n5A-n48C | DC\_n5A-n48A |
| DC\_n5A-n48(2A) | DC\_n5A-n48A |
| DC\_n5A-n66A  DC\_n5B-n66A | DC\_n5A-n66A |
| DC\_n5A-n66(2A)  DC\_n5B-n66(2A) | DC\_n5A-n66A |
| DC\_n5A-n77A  DC\_n5A-n77C | DC\_n5A-n77A |
| DC\_n5A-n77(2A)  DC\_n5A-n77(3A)  DC\_n5(2A)-n77A  DC\_n5(2A)-n77C | DC\_n5A-n77A |
| DC\_n7A-n28A | DC\_n7A-n28A |
| DC\_n7A-n46A  DC\_n7A-n46C  DC\_n7A-n46D | DC\_n7A-n46A |
| DC\_n7A-n78A | DC\_n7A-n78A |
| DC\_n7A-n78(2A) | DC\_n7A-n78A |
| DC\_n12A-n77A | DC\_n12A-n77A |
| DC\_n12A-n77(2A) | DC\_n12A-n77A |
| DC\_n28A-n41A | DC\_n28A-n41A |
| DC\_n28A-n46A  DC\_n28A-n46C  DC\_n28A-n46D | DC\_n28A-n46A |
| DC\_n28A-n77A2 | DC\_n28A-n77A |
| DC\_n28A-n77(2A) | DC\_n28A-n77A |
| DC\_n28A-n78A2 | DC\_n28A-n78A |
| DC\_n28A-n78(2A)2 | DC\_n28A-n78A |
| DC\_n28A-n79A | DC\_n28A-n79A |
| DC\_n41A-n77A | DC\_n41A-n77A |
| DC\_n41A-n78A | DC\_n41A-n78A |
| DC\_n41A-n79A2, 3 | DC\_n41A-n79A |
| DC\_n46A-n48A  DC\_n46A-n48B  DC\_n46A-n48C  DC\_n46B-n48A  DC\_n46B-n48B  DC\_n46B-n48C  DC\_n46C-n48A  DC\_n46C-n48B  DC\_n46C-n48C  DC\_n46D-n48A  DC\_n46D-n48B  DC\_n46D-n48C  DC\_n46N-n48A  DC\_n46N-n48B  DC\_n46N-n48C | DC\_n46A-n48A  DC\_n46A-n48B |
| DC\_n46A-n78A  DC\_n46C-n78A  DC\_n46D-n78A | DC\_n46A-n78A |
| DC\_n48A-n66A  DC\_n48B-n66A  DC\_n48C-n66A | DC\_n48A-n66A |
| DC\_n48A-n66(2A)  DC\_n48B-n66(2A)  DC\_n48(2A)-n66A  DC\_n48(2A)-n66(2A)  DC\_n48(A-C)-n66A | DC\_n48A-n66A |
| DC\_n48A-n70A  DC\_n48B-n70A | DC\_n48A-n70A |
| DC\_n48(2A)-n70A | DC\_n48A-n70A |
| DC\_n48A-n71A  DC\_n48B-n71A  DC\_n48C-n71A | DC\_n48A-n71A |
| DC\_n48A-n71(2A)  DC\_n48(2A)-n71A  DC\_n48(2A)-n71(2A)  DC\_n48(3A)-n71A  DC\_n48(4A)-n71A  DC\_n48B-n71(2A) | DC\_n48A-n71A |
| DC\_n48A-n96A  DC\_n48B-n96A  DC\_n48C-n96A  DC\_n48A-n96B  DC\_n48B-n96B  DC\_n48C-n96B  DC\_n48A-n96C  DC\_n48B-n96C  DC\_n48C-n96C  DC\_n48A-n96D  DC\_n48B-n96D  DC\_n48C-n96D  DC\_n48A-n96E  DC\_n48B-n96E  DC\_n48C-n96E | DC\_n48A-n96A DC\_n48B-n96A |
| DC\_n66A-n77A  DC\_n66A-n77C  DC\_n66B-n77A  DC\_n66B-n77C | DC\_n66A-n77A |
| DC\_n66A-n77(2A)  DC\_n66A-n77(3A)  DC\_n66(2A)-n77(2A)  DC\_n66(2A)-n77C | DC\_n66A-n77A |
| DC\_n71A-n77A | DC\_n71A-n77A |
| DC\_n71A-n77(2A) | DC\_n71A-n77A |
| DC\_n77A-n79A1 | DC\_n77A-n79A |
| DC\_n77(2A)-n79A1 | DC\_n77A-n79A |
| DC\_n78A-n79A  DC\_n78(2A)-n79A | DC\_n78A-n79A |
| NOTE 1: The minimum requirements apply only when there is non-simultaneous Rx/Tx operation between n77-n79 NR carriers. This restriction applies also for these carriers when applicable NR DC configuration is part of a higher order configuration.  NOTE 2: Applicable for UE supporting inter-band NR DC with mandatory simultaneous Rx/Tx capability.  NOTE 3: The frequency range below 2506 MHz for Band n41 is not used in this combination. | |

Table 5.5B.1-2: Inter-band NR DC configurations (three bands)

| NR DC  configuration | Uplink NR DC  configuration |
| --- | --- |
| DC\_n1A-n3A-n7A | DC\_n1A-n3A  DC\_n1A-n7A  DC\_n3A-n7A |
| DC\_n1A-n3A-n28A | DC\_n1A-n3A  DC\_n1A-n28A  DC\_n3A-n28A |
| DC\_n1A-n3A-n41A | DC\_n1A-n3A  DC\_n1A-n41A  DC\_n3A-n41A |
| DC\_n1A-n3A-n67A | DC\_n1A-n3A |
| DC\_n1A-n3A-n77A | DC\_n1A-n3A  DC\_n3A-n77A  DC\_n1A-n77A |
| DC\_n1A-n3A-n78A | DC\_n1A-n3A  DC\_n3A-n78A  DC\_n1A-n78A |
| DC\_n1A-n3A-n78(2A) | DC\_n1A-n3A  DC\_n3A-n78A  DC\_n1A-n78A |
| DC\_n1A-n3A-n79A | DC\_n1A-n3A  DC\_n3A-n79A  DC\_n1A-n79A |
| DC\_n1A-n7A-n28A | DC\_n1A-n7A  DC\_n7A-n28A  DC\_n1A-n28A |
| DC\_n1A-n7A-n78A | DC\_n1A-n7A  DC\_n7A-n78A  DC\_n1A-n78A |
| DC\_n1A-n7A-n78(2A) | DC\_n1A-n7A  DC\_n7A-n78A  DC\_n1A-n78A |
| DC\_n1A-n28A-n41A | DC\_n1A-n28A  DC\_n1A-n41A  DC\_n28A-n41A |
| DC\_n1A-n28A-n77A | DC\_n1A-n28A  DC\_n1A-n77A  DC\_n28A-n77A |
| DC\_n1A-n28A-n78A | DC\_n1A-n28A  DC\_n1A-n78A  DC\_n28A-n78A |
| DC\_n1A-n28A-n78(2A) | DC\_n1A-n28A  DC\_n1A-n78A  DC\_n28A-n78A |
| DC\_n1A-n28A-n79A | DC\_n1A-n28A  DC\_n1A-n79A  DC\_n28A-n79A |
| DC\_n1A-n41A-n77A | DC\_n1A-n41A  DC\_n1A-n77A  DC\_n41A-n77A |
| DC\_n1A-n41A-n79A | DC\_n1A-n41A  DC\_n1A-n79A  DC\_n41A-n79A |
| DC\_n1A-n77A-n79A | DC\_n1A-n77A  DC\_n1A-n79A  DC\_n77A-n79A |
| DC\_n3A-n7A-n28A | DC\_n3A-n7A DC\_n3A-n28A DC\_n7A-n28A |
| DC\_n3A-n7A-n67A | DC\_n3A-n7A |
| DC\_n3A-n7A-n78A | DC\_n3A-n7A  DC\_n3A-n78A  DC\_n7A-n78A |
| DC\_n3A-n7A-n78(2A) | DC\_n3A-n7A  DC\_n3A-n78A  DC\_n7A-n78A |
| DC\_n3A-n28A-n41A | DC\_n3A-n28A  DC\_n3A-n41A  DC\_n28A-n41A |
| DC\_n3A-n28A-n77A | DC\_n3A-n28A  DC\_n3A-n77A  DC\_n28A-n77A |
| DC\_n3A-n28A-n77(2A) | DC\_n3A-n28A  DC\_n3A-n77A  DC\_n28A-n77A |
| DC\_n3A-n28A-n78A | DC\_n3A-n28A  DC\_n3A-n78A  DC\_n28A-n78A |
| DC\_n3A-n28A-n78(2A) | DC\_n3A-n28A  DC\_n3A-n78A  DC\_n28A-n78A |
| DC\_n3A-n28A-n79A | DC\_n3A-n28A  DC\_n3A-n79A  DC\_n28A-n79A |
| DC\_n3A-n41A-n77A | DC\_n3A-n41A  DC\_n3A-n77A  DC\_n41A-n77A |
| DC\_n3A-n41A-n79A | DC\_n3A-n41A  DC\_n3A-n79A  DC\_n41A-n79A |
| DC\_n3A-n67A-n78A  DC\_n3A-n67A-n78(2A) | DC\_n3A-n78A |
| DC\_n3A-n77A-n79A | DC\_n3A-n77A  DC\_n3A-n79A  DC\_n77A-n79A |
| DC\_n3A-n77(2A)-n79A | DC\_n3A-n77A  DC\_n3A-n79A  DC\_n77A-n79A |
| DC\_n7A-n28A-n78A | DC\_n7A-n28A  DC\_n7A-n78A  DC\_n28A-n78A |
| DC\_n7A-n28A-n78(2A) | DC\_n7A-n28A  DC\_n7A-n78A  DC\_n28A-n78A |
| DC\_n7A-n46A-n78A | DC\_n7A-n46A  DC\_n7A-n78A  DC\_n46A-n78A |
| DC\_n7A-n46C-n78A | DC\_n7A-n46A  DC\_n7A-n78A  DC\_n46A-n78A |
| DC\_n7A-n46D-n78A | DC\_n7A-n46A  DC\_n7A-n78A  DC\_n46A-n78A |
| DC\_n28A-n41A-n77A | DC\_n28A-n41A  DC\_n28A-n77A  DC\_n41A-n77A |
| DC\_n28A-n41A-n79A | DC\_n28A-n41A  DC\_n28A-n79A  DC\_n41A-n79A |
| DC\_n28A-n46A-n78A  DC\_n28A-n46C-n78A  DC\_n28A-n46D-n78A | DC\_n28A-n46A  DC\_n28A-n78A  DC\_n46A-n78A |
| DC\_n28A-n77A-n79A | DC\_n28A-n77A  DC\_n28A-n79A  DC\_n77A-n79A |
| DC\_n28A-n77(2A)-n79A | DC\_n28A-n77A  DC\_n28A-n79A  DC\_n77A-n79A |
| DC\_n41A-n77A-n79A | DC\_n41A-n77A  DC\_n41A-n79A  DC\_n77A-n79A |

### *<< Next changes >>*

##### 6.2A.4.2.4 ΔTIB,c for Inter-band CA (three bands)

Table 6.2A.4.2.4-1: ΔTIB,c due to NR CA (three bands)

|  |  |  |  |
| --- | --- | --- | --- |
| Inter-band CA combination | ΔTIB,c for NR bands (dB)8 | | |
| Component band in order of bands in configuration9 | | |
| CA\_n1-n3-n5 | 0.3 | 0.3 | 0.3 |
| CA\_n1-n3-n7 | 0.6 | 0.6 | 0.6 |
| CA\_n1-n3-n8 | 0.3 | 0.3 | 0.3 |
| CA\_n1-n3-n18 | 0.3 | 0.3 | 0.3 |
| CA\_n1-n3-n20 | 0.3 | 0.3 | 0.3 |
| CA\_n1-n3-n26 | 0.3 | 0.3 | 0.3 |
| CA\_n1-n3-n28 | 0.3 | 0.3 | 0.6 |
| CA\_n1-n3-n38 | 0.5 | 0.5 | 0.3 |
| CA\_n1-n3-n40 | 0.5 | 0.5 | 0.5 |
| CA\_n1-n3-n41 | 0.5 | 0.5 | 0.35 / 0.86 |
| CA\_n1-n3-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n3-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n3-n79 | 0.3 | 0.3 | 0.8 |
| CA\_n1-n5-n7 | 0.5 | 0.3 | 0.6 |
| CA\_n1-n5-n28 | 0.3 | 0.6 | 0.6 |
| CA\_n1-n5-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n7-n8 | 0.5 | 0.6 | 0.6 |
| CA\_n1-n7-n26 | 0.5 | 0.6 | 0.3 |
| CA\_n1-n7-n28 | 0.5 | 0.6 | 0.6 |
| CA\_n1-n7-n38 | 0.5 | - | - |
| CA\_n1-n7-n40 | 0.6 | 0.8 | 0.9 |
| CA\_n1-n7-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n7-n79 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n8-n28 | 0.3 | 0.6 | 0.6 |
| CA\_n1-n8-n40 | 0.3 | 0.3 | 0.5 |
| CA\_n1-n8-n77 | 0.3 | 0.6 | 0.8 |
| CA\_n1-n8-n78 | 0.3 | 0.6 | 0.8 |
| CA\_n1-n8-n79 | 0.3 | 0.6 | 0.8 |
| CA\_n1-n18-n28 | 0.3 | 0.5 | 0.5 |
| CA\_n1-n18-n41 | 0.5 | 0.3 | 0.5 |
| CA\_n1-n18-n77 | 0.3 | 0.3 | 0.8 |
| CA\_n1-n20-n67 | 0.5 | 0.6 | 0.8 |
| CA\_n1-n20-n78 | 0.3 | 0.6 | 0.8 |
| CA\_n1-n26-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n28-n38 | 0.5 | 0.6 | 0.5 |
| CA\_n1-n28-n40 | 0.6 | 0.3 | 0.5 |
| CA\_n1-n28-n41 | 0.5 | 0.6 | 0.6 |
| CA\_n1-n28-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n1-n28-n78 | 0.3 | 0.6 | 0.8 |
| CA\_n1-n28-n79 | - | 0.2 | 0.5 |
| CA\_n1-n38-n78 | 0.5 | 0.5 | 0.8 |
| CA\_n1-n40-n77 | 0.3 | 0.5 | 0.8 |
| CA\_n1-n40-n78 | 0.3 | 0.5 | 0.8 |
| CA\_n1-n41-n77 | 0.5 | 0.5 | 0.8 |
| CA\_n1-n41-n79 | 0.5 | 0.5 | 0.8 |
| CA\_n1-n77-n79 | 0.6 | 0.8 | 0.5 |
| CA\_n1-n78-n79 | 0.3 | 0.8 / 1.57 | 0.5 / 1.57 |
| CA\_n2-n5-n30 | 0.5 | 0.3 | 0.3 |
| CA\_n2-n5-n48 | 0.6 | 0.3 | 0.8 |
| CA\_n2-n5-n66 | 0.5 | 0.3 | 0.5 |
| CA\_n2-n5-n77 | 0.6 | 0.8 | 0.8 |
| CA\_n2-n12-n30 | 0.5 | 0.3 | 0.3 |
| CA\_n2-n12-n66 | 0.5 | 0.8 | 0.5 |
| CA\_n2-n12-n77 | 0.6 | 0.3 | 0.8 |
| CA\_n2-n14-n30 | 0.5 | 0.3 | 0.5 |
| CA\_n2-n14-n66 | 0.5 | 0.3 | 0.5 |
| CA\_n2-n14-n77 | 0.5 | 0.3 | 0.8 |
| CA\_n2-n29-n30 | 0.5 | - | 0.3 |
| CA\_n2-n29-n66 | 0.5 | - | 0.5 |
| CA\_n2-n29-n77 | 0.6 | - | 0.8 |
| CA\_n2-n30-n66 | 0.5 | 0.3 | 0.5 |
| CA\_n2-n30-n77 | 0.6 | 0.3 | 0.8 |
| CA\_n2-n48-n66 | 0.6 | 0.8 | 0.6 |
| CA\_n2-n48-n77 | 0.6 | 0.8 | 0.8 |
| CA\_n2-n66-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n2-n66-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n2-n71-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n5-n7 | 0.5 | 0.3 | 0.5 |
| CA\_n3-n5-n28 | 0.3 | 0.6 | 0.5 |
| CA\_n3-n5-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n7-n8 | 0.5 | 0.5 | 0.6 |
| CA\_n3-n7-n26 | 0.5 | 0.5 | 0.3 |
| CA\_n3-n7-n28 | 0.5 | 0.5 | 0.3 |
| CA\_n3-n7-n38 | 0.5 | - | - |
| CA\_n3-n7-n67 | 0.5 | 0.5 | - |
| CA\_n3-n7-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n7-n79 | 0.5 | 0.5 | 0.8 |
| CA\_n3-n8-n28 | 0.3 | 0.6 | 0.5 |
| CA\_n3-n8-n41 | 0.5 | 0.3 | 0.31 / 0.82 |
| CA\_n3-n8-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n8-n79 | 0.3 | 0.3 | 0.5 |
| CA\_n3-n8-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n18-n28 | 0.3 | 0.5 | 0.3 |
| CA\_n3-n18-n41 | 0.5 | 0.3 | 0.31 / 0.82 |
| CA\_n3-n18-n77 | 0.6 | 0.3 | 0.8 |
| CA\_n3-n20-n28 | 0.3 | 0.5 | 0.5 |
| CA\_n3-n20-n67 | 0.3 | 0.5 | 0.5 |
| CA\_n3-n20-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n26-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n3-n28-n38 | 0.5 | 0.5 | 0.3 |
| CA\_n3-n28-n40 | 0.5 | 0.3 | 0.5 |
| CA\_n3-n28-n41 | 0.5 | 0.3 | 0.31 / 0.82 |
| CA\_n3-n28-n77 | 0.6 | 0.5 | 0.8 |
| CA\_n3-n28-n78 | 0.5 | 0.3 | 0.8 |
| CA\_n3-n28-n79 | 0.3 | 0.5 | 0.8 |
| CA\_n3-n38-n40 | 0.5 | 0.51,3 | 0.5 |
| CA\_n3-n67-n78 | 0.5 | - | 0.8 |
| CA\_n3-n77-n79 | 0.6 | 0.8 | - |
| CA\_n3-n78-n79 | 0.6 | 0.8 | 0.8 |
| CA\_n3-n40-n41 | 0.5 | 0.5 | 0.51,3 / 0.82,3 |
| CA\_n3-n40-n77 | 0.6 | 0.5 | 0.8 |
| CA\_n3-n41-n77 | 0.6 | 0.31 / 0.82 | 0.8 |
| CA\_n3-n41-n78 | 0.6 | 0.31 / 0.82 | 0.8 |
| CA\_n3-n41-n79 | 0.3 | 0.31 / 0.82 | 0.8 |
| CA\_n5-n7-n28 | 0.5 | 0.3 | 0.6 |
| CA\_n5-n7-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n5-n7-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n5-n12-n77 | 0.8 | 0.4 | 0.5 |
| CA\_n5-n14-n77 | 0.5 | 0.3 | 0.8 |
| CA\_n5-n25-n66 | 0.3 | 0.5 | 0.5 |
| CA\_n5-n25-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n5-n25-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n5-n29-n77 | 0.8 | - | 0.5 |
| CA\_n5-n30-n66 | 0.3 | 0.3 | 0.5 |
| CA\_n5-n30-n77 | 0.6 | 0.3 | 0.8 |
| CA\_n5-n40-n78 | 0.6 | 0.5 | 0.8 |
| CA\_n5-n48-n66 | 0.3 | 0.8 | 0.6 |
| CA\_n5-n48-n77 | 0.6 | 0.8 | 0.8 |
| CA\_n5-n66-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n5\_n66-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n7-n8-n28 | 0.3 | 0.6 | 0.5 |
| CA\_n7-n8-n40 | 0.5 | 0.6 | 0.6 |
| CA\_n7-n8-n78 | 0.5 | 0.6 | 0.8 |
| CA\_n7\_n25-n66 | 0.5 | 0.5 | 0.5 |
| CA\_n7-n25-n77 | 0.5 | 0.6 | 0.8 |
| CA\_n7-n25-n78 | 0.5 | 0.6 | 0.8 |
| CA\_n7-n26-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n7-n28-n38 | 0.3 | 0.3 | 0.3 |
| CA\_n7\_n28-n78 | 0.3 | 0.3 | 0.8 |
| CA\_n7-n46-n78 | 0.5 | - | 0.8 |
| CA\_n7-n66-n77 | 0.5 | 0.6 | 0.8 |
| CA\_n7\_n66-n78 | 0.5 | 0.6 | 0.8 |
| CA\_n7-n71-n77 | 0.3 | 0.5 | 0.8 |
| CA\_n8-n28-n78 | 0.6 | 0.5 | 0.8 |
| CA\_n8-n38-n40 | 0.3 | 0.3 | 0.3 |
| CA\_n8-n39-n41 | 0.6 | 0.54 | 0.54 |
| CA\_n8-n39-n79 | 0.3 | 0.3 | - |
| CA\_n8-n40-n41 | 0.3 | 0.33 | 0.33 |
| CA\_n8-n40-n78 | 0.6 | 0.3 | 0.8 |
| CA\_n8-n41-n79 | 0.6 | 0.3 | 0.8 |
| CA\_n8-n78-n79 | 0.6 | 0.8 | 0.8 |
| CA\_n12-n30-n66 | 0.8 | 0.3 | 0.5 |
| CA\_n12-n30-n77 | 0.5 | 0.3 | 0.5 |
| CA\_n12-n66-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n13-n25-n66 | 0.3 | 0.5 | 0.5 |
| CA\_n13-n25-n77 | 0.3 | 0.6 | 0.8 |
| CA\_n13-n66-n77 | 0.5 | 0.6 | 0.8 |
| CA\_n14-n30-n66 | 0.3 | 0.3 | 0.5 |
| CA\_n14-n30-n77 | 0.5 | 0.3 | 0.8 |
| CA\_n14-n66-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n18-n28-n41 | 0.4 | 0.4 | 0.3 |
| CA\_n18-n28-n77 | 0.5 | 0.5 | 0.8 |
| CA\_n18-n41-n77 | 0.3 | 0.3 | 0.8 |
| CA\_n20-n28-n78 | 0.6 | 0.5 | 0.8 |
| CA\_n24-n41-n48 | 0.6 | 0.41 / 0.92 | 0.8 |
| CA\_n24-n41-n77 | 0.6 | 0.45 / 0.96 | 0.8 |
| CA\_n24-n48-n77 | 0.6 | 0.8 | 0.8 |
| CA\_n25-n29-n66 | 0.5 | - | 0.5 |
| CA\_n25-n38-n78 | 0.5 | 0.4 | 0.8 |
| CA\_n25-n41-n66 | 0.5 | 0.85 / 1.36 | 0.5 |
| CA\_n25-n41-n71 | 0.5 | 0.5 | 0.6 |
| CA\_n25-n41-n77 | 0.5 | 0.5 | 0.6 |
| CA\_n25-n41-n78 | 0.6 | 0.5 | 0.8 |
| CA\_n25-n48-n66 | 0.6 | 0.8 | 0.6 |
| CA\_n25-n66-n71 | 0.5 | 0.5 | 0.6 |
| CA\_n25-n66-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n25-n66-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n25-n71-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n25-n71-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n26-n66-n70 | 0.3 | 0.5 | 0.5 |
| CA\_n28-n38-n78 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n39-n40 | 0.3 | 0.3 | 0.3 |
| CA\_n28-n39-n41 | 0.3 | 0.5 | 0.5 |
| CA\_n28-n39-n79 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n40-n41 | 0.3 | 0.5 | 0.5 |
| CA\_n28-n40-n77 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n40-n78 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n40-n79 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n41-n79 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n41-n77 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n41-n78 | 0.5 | 0.3 | 0.8 |
| CA\_n28-n46-n78 | 0.5 | - | 0.8 |
| CA\_n28-n77-n79 | 0.5 | 0.8 | 0.5 |
| CA\_n28-n78-n79 | 0.5 | 0.8 / 1.57 | 0.5 / 1.57 |
| CA\_n29-n30-n66 | - | 0.3 | 0.5 |
| CA\_n29-n30-n77 | - | 0.3 | 0.5 |
| CA\_n29-n66-n70 | - | 0.5 | 0.5 |
| CA\_n29-n66-n77 | - | 0.6 | 0.8 |
| CA\_n29-n70-n71 | - | 0.3 | 0.6 |
| CA\_n30-n66-n77 | 0.3 | 0.6 | 0.8 |
| CA\_n38-n66-n78 | 0.5 | 0.5 | 0.8 |
| CA\_n39-n40-n41 | 0.3 | 0.3 | 0.3 |
| CA\_n39-n40-n79 | 0.3 | - | 0.8 |
| CA\_n39-n41-n79 | 0.3 | 0.34 | 0.84 |
| CA\_n40-n41-n79 | 0.53 | 0.53 | 0.8 |
| CA\_n41-n66-n71 | 0.8 / 1.36 | 0.5 | 0.3 |
| CA\_n41-n66-n77 | 0.5 | 0.6 | 0.8 |
| CA\_n41-n66-n78 | 0.5 | 0.6 | 0.8 |
| CA\_n41-n70-n78 | 0.6 | 0.6 | 0.8 |
| CA\_n41-n71-n77 | 0.3 | 0.5 | 0.8 |
| CA\_n41-n71-n78 | 0.3 | 0.5 | 0.8 |
| CA\_n41-n77-n79 | 0.3 | 0.8 | 0.8 |
| CA\_n46-n48-n96 | 0.5 | 0.8 | 0.6 |
| CA\_n48-n66-n70 | 0.8 | 0.6 | 0.6 |
| CA\_n48-n66-n71 | 0.5 | 0.5 | 0.3 |
| CA\_n48-n66-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n48-n70-n71 | 0.5 | 0.5 | 0.3 |
| CA\_n48-n70-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n48-n71-n77 | 0.8 | 0.6 | 0.8 |
| CA\_n66-n70-n71 | 0.5 | 0.5 | 0.6 |
| CA\_n66-n70-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n66-n71-n77 | 0.6 | 0.6 | 0.8 |
| CA\_n66-n71-n78 | 0.6 | 0.5 | 0.8 |
| CA\_n70-n71-n77 | 0.6 | 0.3 | 0.8 |
| NOTE 1: The requirement is applied for UE transmitting on the frequency range of 2515-2690 MHz.  NOTE 2: The requirement is applied for UE transmitting on the frequency range of 2496-2515 MHz.  NOTE 3: Only applicable for UE supporting inter-band carrier aggregation without simultaneous Rx/Tx among band 40 and 41.  NOTE 4: Applicable for UE supporting inter-band carrier aggregation without simultaneous Rx/Tx between n39 and n41.  NOTE 5: The requirement is applied for UE transmitting on the frequency range of 2545 - 2690 MHz.  NOTE 6: The requirement is applied for UE transmitting on the frequency range of 2496 - 2545 MHz.  NOTE 7: The requirements only apply for UE supporting inter-band carrier aggregation with simultaneous Rx/Tx capability, and NR UL carrier frequencies are confined to 3700 MHz-3800MHz for n78 and 4400 MHz-4500MHz for n79. Simultaneous Rx/Tx capability does not apply for UEs supporting band n78 with a n77 implementation.  NOTE 8: “-” denotes ΔTIB,c = 0.  NOTE 9: The component band order in the configuration should be listed by the order of NR bands, such as for CA\_n1-n3-n5 the band order from left to right is n1, n3 and n5. | | | |

### *<< Next changes >>*

##### 7.3A.3.2.3 ΔRIB,c for three bands

Table 7.3A.3.2.3-1: ΔRIB,c due to CA (three bands)

|  |  |  |  |
| --- | --- | --- | --- |
| Inter-band CA combination | ΔRIB,c for NR bands (dB)9 | | |
| Component band in order of bands in configuration10 | | |
| CA\_n1-n3-n5 | - | - | - |
| CA\_n1-n3-n8 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n3-n18 | - | - | - |
| CA\_n1-n3-n20 | - | - | - |
| CA\_n1-n3-n28 | - | - | 0.2 |
| CA\_n1-n3-n38 | 0.2 | 0.2 | - |
| CA\_n1-n3-n41 | - | - | 05 / 0.56 |
| CA\_n1-n3-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n3-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n3-n79 | - | - | 0.5 |
| CA\_n1-n5-n7 | - | - | - |
| CA\_n1-n5-n28 | - | 0.2 | 0.2 |
| CA\_n1-n5-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n7-n8 | - | - | 0.2 |
| CA\_n1-n7-n28 | - | - | 0.2 |
| CA\_n1-n7-n40 | - | 0.3 | 0.8 |
| CA\_n1-n7-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n7-n79 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n8-n28 | - | 0.2 | 0.2 |
| CA\_n1-n8-n40 | - | 0.2 | 0.5 |
| CA\_n1-n8-n77 | - | 0.2 | 0.5 |
| CA\_n1-n8-n78 | - | 0.2 | 0.5 |
| CA\_n1-n8-n79 | - | 0.2 | 0.5 |
| CA\_n1-n18-n28 | - | - | - |
| CA\_n1-n18-n41 | - | - | - |
| CA\_n1-n18-n77 | - | - | 0.5 |
| CA\_n1-n20-n67 | - | 0.2 | 0.2 |
| CA\_n1-n20-n78 | - | - | 0.5 |
| CA\_n1-n26-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n28-n38 | - | 0.2 | - |
| CA\_n1-n28-n40 | - | 0.2 | - |
| CA\_n1-n28-n41 | - | 0.2 | - |
| CA\_n1-n28-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n1-n28-n78 | - | 0.2 | 0.5 |
| CA\_n1-n38-n78 | - | - | 0.5 |
| CA\_n1-n40-n77 | - | - | 0.5 |
| CA\_n1-n40-n78 | - | - | 0.5 |
| CA\_n1-n41-n77 | 0.2 | - | 0.5 |
| CA\_n1-n41-n79 | - | 0.5 | 0.5 |
| CA\_n1-n77-n79 | 0.2 | 0.5 | - |
| CA\_n1-n78-n79 | - | 0.5 | - |
| CA\_n2-n5-n30 | 0.4 | - | 0.5 |
| CA\_n2-n5-n48 | 0.2 | - | 0.5 |
| CA\_n2-n5-n66 | 0.3 | - | 0.3 |
| CA\_n2-n5-n77 | 0.2 | 0.5 | 0.5 |
| CA\_n2-n12-n30 | 0.4 | - | 0.5 |
| CA\_n2-n12-n66 | 0.3 | 0.5 | 0.3 |
| CA\_n2-n12-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n2-n14-n30 | 0.3 | - | 0.3 |
| CA\_n2-n14-n66 | 0.3 | - | 0.3 |
| CA\_n2-n14-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n2-n29-n30 | 0.3 | - | 0.3 |
| CA\_n2-n29-n66 | 0.3 | - | 0.3 |
| CA\_n2-n29-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n2-n30-n66 | 0.4 | 0.5 | 0.4 |
| CA\_n2-n30-n77 | 0.2 | - | 0.5 |
| CA\_n2-n48-n66 | 0.3 | 0.5 | 0.3 |
| CA\_n2-n48-n77 | 0.2 | 0.5 | 0.5 |
| CA\_n2-n66-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n2-n66-n78 | 0.3 | 0.3 | 0.5 |
| CA\_n3-n5-n28 | - | 0.2 | 0.1 |
| CA\_n3-n7-n8 | - | - | 0.2 |
| CA\_n3-n7-n38 | - | 0.5 | 0.5 |
| CA\_n3-n7-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n3-n7-n79 | - | - | 0.5 |
| CA\_n3-n8-n28 | - | 0.2 | 0.1 |
| CA\_n3-n8-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n3-n8-n41 | - | - | 01 / 0.52 |
| CA\_n3-n8-n79 | - | - | - |
| CA\_n3-n5-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n3-n8-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n3-n18-n28 | - | - | - |
| CA\_n3-n18-n41 | - | - | 01 / 0.52 |
| CA\_n3-n18-n77 | 0.2 | - | 0.5 |
| CA\_n3-n20-n28 | - | 0.1 | 0.1 |
| CA\_n3-n20-n67 | - | 0.1 | 0.1 |
| CA\_n3-n20-n78 | 0.2 | - | 0.5 |
| CA\_n3-n26-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n3-n28-n41 | - | - | 01 / 0.52 |
| CA\_n3-n28-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n3-n28-n78 | - | 0.2 | 0.5 |
| CA\_n3-n28-n79 | - | 0.2 | 0.5 |
| CA\_n3-n38-n40 | - | - | - |
| CA\_n3-n67-n78 | - | 0.2 | 0.5 |
| CA\_n3-n77-n79 | 0.2 | 0.5 | - |
| CA\_n3-n78-n79 | 0.2 | 0.5 | 0.5 |
| CA\_n3-n40-n41 | - | - | 01,3 / 0.52,3 |
| CA\_n3-n41-n77 | 0.2 | 01 / 0.52 | 0.5 |
| CA\_n3-n41-n78 | 0.2 | 01 / 0.52 | 0.5 |
| CA\_n3-n41-n79 | - | 0.5 | 0.5 |
| CA\_n5-n7-n28 | - | - | 0.2 |
| CA\_n5-n7-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n5-n7-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n5-n12-n77 | 0.5 | 0.3 | 0.5 |
| CA\_n5-n14-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n5-n25-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n5-n25-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n5-n29-n77 | 0.5 | 0.3 | 0.5 |
| CA\_n5-n30-n66 | - | 0.5 | 0.4 |
| CA\_n5-n30-n77 | 0.2 | - | 0.5 |
| CA\_n5-n40-n78 | 0.2 | 0.4 | 0.5 |
| CA\_n5-n48-n66 | - | 0.5 | 0.2 |
| CA\_n5-n48-n77 | 0.2 | 0.5 | 0.5 |
| CA\_n5-n66-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n5-n66-n78 | 0.5 | 0.2 | 0.5 |
| CA\_n7-n8-n28 | - | 0.2 | 0.1 |
| CA\_n7-n8-n40 | - | 0.2 | 0.5 |
| CA\_n7-n8-n78 | - | 0.2 | 0.5 |
| CA\_n7-n25-n66 | 0.5 | 0.3 | 0.5 |
| CA\_n7-n25-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n7-n25-n78 | 0.5 | 0.2 | 0.5 |
| CA\_n7-n26-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n7-n28-n78 | - | - | 0.5 |
| CA\_n7-n46-n78 | 0.5 | - | 0.5 |
| CA\_n7-n66-n77 | 0.5 | 0.5 | 0.5 |
| CA\_n7-n66-n78 | 0.5 | 0.5 | 0.5 |
| CA\_n7-n71-n77 | - | 0.2 | 0.5 |
| CA\_n8-n28-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n8-n38-n40 | - | - | - |
| CA\_n8-n39-n41 | - | 0.24 | 0.24 |
| CA\_n8-n39-n79 | - | - | - |
| CA\_n8-n40-n78 | 0.2 | 0.4 | 0.5 |
| CA\_n8-n41-n79 | - | 0.5 | 0.5 |
| CA\_n8-n78-n79 | 0.2 | 0.5 | 0.5 |
| CA\_n12-n30-n66 | 0.5 | 0.5 | 0.4 |
| CA\_n12-n30-n77 | 0.2 | - | 0.5 |
| CA\_n12-n66-n77 | 0.5 | 0.5 | 0.5 |
| CA\_n13-n25-n66 | - | 0.3 | 0.3 |
| CA\_n13-n25-n77 | - | 0.2 | 0.5 |
| CA\_n13-n66-n77 | 0.3 | 0.3 | 0.5 |
| CA\_n14-n30-n66 | - | 0.5 | 0.4 |
| CA\_n14-n30-n77 | 0.2 | - | 0.5 |
| CA\_n14-n66-n77 | 0.2 | 0.5 | 0.5 |
| CA\_n18-n28-n41 | - | - | - |
| CA\_n18-n28-n77 | - | - | 0.5 |
| CA\_n18-n41-n77 | - | - | 0.5 |
| CA\_n20-n28-n78 | - | 0.2 | 0.5 |
| CA\_n24-n41-n48 | - | - | 0.5 |
| CA\_n24-n41-n77 | 0.2 | - | 0.5 |
| CA\_n24-n48-n77 | 0.2 | 0.5 | 0.5 |
| CA\_n25-n29-n66 | 0.3 | - | 0.3 |
| CA\_n25-n38-n78 | 0.2 | 0.4 | 0.5 |
| CA\_n25-n41-n66 | 0.3 | 0.55 / 16 | 0.3 |
| CA\_n25-n41-n71 | - | - | 0.2 |
| CA\_n25-n41-n78 | 0.2 | 0.5 | 0.5 |
| CA\_n25-n48-n66 | 0.3 | 0.5 | 0.3 |
| CA\_n25-n66-n71 | 0.3 | 0.3 | 0.3 |
| CA\_n25-n66-n78 | 0.3 | 0.3 | 0.5 |
| CA\_n25-n66-n77 | 0.3 | 0.3 | 0.5 |
| CA\_n25-n71-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n25-n71-n78 | 0.2 | 0.3 | 0.5 |
| CA\_n26-n66-n70 | - | - | - |
| CA\_n28-n38-n78 | 0.2 | - | 0.5 |
| CA\_n28-n39-n40 | - | 0.3 | 0.3 |
| CA\_n28-n39-n41 | - | 0.2 | 0.2 |
| CA\_n28-n39-n79 | 0.2 | - | 0.5 |
| CA\_n28-n40-n41 | - | - | - |
| CA\_n28-n40-n77 | - | - | 0.5 |
| CA\_n28-n40-n78 | - | - | 0.5 |
| CA\_n28-n40-n79 | 0.2 | - | 0.5 |
| CA\_n28-n41-n77 | 0.2 | - | 0.5 |
| CA\_n28-n41-n78 | 0.2 | - | 0.5 |
| CA\_n28-n41-n79 | 0.2 | 0.5 | 0.5 |
| CA\_n28-n46-n78 | 0.2 | - | 0.5 |
| CA\_n28-n77-n79 | 0.2 | 0.5 | - |
| CA\_n28-n78-n79 | 0.2 | 0.5 | - |
| CA\_n29-n30-n66 | - | 0.5 | 0.4 |
| CA\_n29-n30-n77 | 0.2 | - | 0.5 |
| CA\_n29-n66-n77 | 0.5 | 0.5 | 0.5 |
| CA\_n29-n70-n71 | 0.2 | 0.2 | 0.2 |
| CA\_n30-n66-n77 | 0.5 | 0.4 | 0.5 |
| CA\_n39-n40-n79 | 0.3 | 0.3 | 0.5 |
| CA\_n39-n41-n79 | 0.34 | 0.34 | 0.8 |
| CA\_n40-n41-n79 | 08 | 0.58 | 0.5 |
| CA\_n41-n66-n71 | 0.51 / 12 | 0.5 | - |
| CA\_n41-n66-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n41-n66-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n41-n70-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n41-n71-n77 | - | 0.2 | 0.5 |
| CA\_n41-n71-n78 | - | 0.2 | 0.5 |
| CA\_n41-n77-n79 | 0.5 | 0.5 | 0.5 |
| CA\_n46-n48-n96 | 0.5 | 0.5 | 0.6 |
| CA\_n48-n66-n70 | 0.5 | 0.2 | 0.2 |
| CA\_n48-n66-n71 | 0.2 | 0.2 | 0.2 |
| CA\_n48-n66-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n48-n70-n71 | 0.2 | 0.2 | 0.2 |
| CA\_n48-n70-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n48-n71-n77 | 0.5 | 0.2 | 0.5 |
| CA\_n66-n70-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n66-n71-n77 | 0.2 | 0.2 | 0.5 |
| CA\_n66-n71-n78 | 0.2 | 0.2 | 0.5 |
| CA\_n70-n71-n77 | 0.2 | 0.2 | 0.5 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz.  NOTE 3: Only applicable for UE supporting inter-band carrier aggregation without simultaneous Rx/Tx among band 40 and 41.  NOTE 4: Applicable for UE supporting inter-band carrier aggregation without simultaneous Rx/Tx between n39 and n41.  NOTE 5: The requirement is applied for UE transmitting on the frequency range of 2545 - 2690 MHz.  NOTE 6: The requirement is applied for UE transmitting on the frequency range of 2496 - 2545 MHz.  NOTE 7: Void.  NOTE 8: Void.  NOTE 9: “-” denotes ΔRIB,c = 0.  NOTE 10: The component band order in the configuration should be listed by the order of NR bands, such as for CA\_n1-n3-n8 the band order from left to right is n1, n3 and n8. | | | |

### *<< Next changes >>*

### 7.3A.4 Reference sensitivity exceptions due to UL harmonic interference for CA

Sensitivity degradation is allowed for different combinations of UL configurations and DL channel bandwidths if a band in frequency range 1 is impacted by UL harmonic interference from another band which belongs to NR band in frequency range 1 of the same downlink CA configuration. Reference sensitivity exceptions and uplink/downlink configurations due to UL harmonic from a PC3 aggressor NR UL band for either single band uplink or PC3 or PC2 CA are specified in Table 7.3A.4-1. For these exceptions, only the listed test points in Table 7.3A.4-1 are needed to be tested.

Table 7.3A.4-1: Reference sensitivity exceptions and uplink/downlink configurations due to UL harmonic from a PC3 aggressor NR UL band for NR DL CA FR1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UL band | DL band | UL BW | SCS of UL band | UL RB Allocation | DL BW | MSD | UL/DL fc condition | UL/DL harmonic order |
| (MHz) | (kHz) | LCRB | (MHz) | (dB) |
| n1 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n1 | n77 | 20 | 15 | 100 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n1 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n2 | n48 | 5 | 15 | 25 (RBstart=0) | 5 | 27.1 | NOTE 2 | UL2/DL1  direct-hit |
| n2 | n48 | 10 | 15 | 50 (RBstart=0) | 1007 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n2 | n48 | 5 | 15 | 25 (RBstart=0) | 10 | 1.9 | NOTE 6 | UL2/DL1  near-miss |
| n2 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n2 | n77 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n2 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n2 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n2 | n78 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n2 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n3 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n3 | n77 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n3 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n3 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n3 | n78 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n3 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n5 | n778 | 5 | 15 | 16 (RBstart=0) | 10 | 10.5 | NOTE 4 | UL4/DL1  direct-hit |
| n5 | n778 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n5 | n778 | 5 | 15 | 16 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n5 | n778 | 5 | 15 | 25 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n5 | n78 | 5 | 15 | 16 (RBstart=0) | 10 | 10.5 | NOTE 4 | UL4/DL1  direct-hit |
| n5 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n7 | n79 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n8 | n313 | N/A | N/A | N/A | N/A | N/A | NOTE 2 | UL2/DL1  direct-hit |
| n8 | n7 | 5 | 15 | 8 (RBstart=0) | 5 | 10 | NOTE 3 | UL3/DL1  direct-hit |
| n8 | n7 | 5 | 15 | 25 (RBstart=0) | 50 | 1.1 | NOTE 3 | UL3/DL1  direct-hit |
| n8 | n41 | 5 | 15 | 16 (RBstart=0) | 10 | 13 | NOTE 3 | UL3/DL1  direct-hit |
| n8 | n41 | 5 | 15 | 25 (RBstart=0) | 100 | 3.5 | NOTE 3 | UL3/DL1  direct-hit |
| n8 | n77 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n8 | n77 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n8 | n78 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n8 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n8 | n79 | 5 | 15 | 16 (RBstart=0) | 10 | 12.0 | NOTE 5 | UL5/DL1  direct-hit |
| n8 | n79 | 5 | 15 | 25 (RBstart=0) | 100 | 4.4 | NOTE 5 | UL5/DL1  direct-hit |
| n12 | n48 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n12 | n48 | 5 | 15 | 25 (RBstart=0) | 40 | 4.7 | NOTE 5 | UL5/DL1  direct-hit |
| n12 | n66 | 5 | 15 | 8 (RBstart=0) | 5 | 10 | NOTE 3 | UL3/DL1  direct-hit |
| n12 | n66 | 5 | 15 | 20 (RBstart=0) | 40 | 2.4 | NOTE 3 | UL3/DL1  direct-hit |
| n12 | n77 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n12 | n77 | 5 | 15 | 20 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n13 | n77 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n13 | n77 | 5 | 15 | 20 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n14 | n77 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n14 | n77 | 5 | 15 | 20 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n18 | n77 | 5 | 15 | 16 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n18 | n77 | 5 | 15 | 25 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n20 | n78 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n20 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n24 | n7712 | N/A | N/A | N/A | N/A | N/A | NOTE 2 | UL2/DL1  direct-hit |
| n24 | n7712 | N/A | N/A | N/A | N/A | N/A | NOTE 2 | UL2/DL1  direct-hit |
| n25 | n48 | 5 | 15 | 25 (RBstart=0) | 10 | 1.9 | NOTE 6 | UL2/DL1  near-miss |
| n25 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n25 | n77 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n25 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n25 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n25 | n78 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n25 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n26 | n778 | 5 | 15 | 16 (RBstart=0) | 10 | N/A | NOTE 4 | UL4/DL1  direct-hit |
| n26 | n778 | 5 | 15 | 16 (RBstart=0) | 10 | N/A | NOTE 5 | UL5/DL1  direct-hit |
| n26 | n78 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n26 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n28 | n1 | 5 | 15 | 8 (RBstart=0) | 5 | 10.2 | NOTE 3 | UL3/DL1  direct-hit |
| n28 | n1 | 5 | 15 | 25 (RBstart=0) | 50 | 1.1 | NOTE 3 | UL3/DL1  direct-hit |
| n28 | n50 | 5 | 15 | 12 (RBstart=0) | 5 | 23.0 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n50 | 5 | 15 | 25 (RBstart=0) | 80 | 10.8 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n74 | 5 | 15 | 12 (RBstart=0) | 5 | 23.1 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n74 | 5 | 15 | 25 (RBstart=0) | 20 | 16.8 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n75 | 5 | 15 | 12 (RBstart=0) | 5 | 28.1 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n75 | 10 | 15 | 50 (RBstart=0) | 50 | 18.7 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n77 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n28 | n77 | 5 | 15 | 25 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n28 | n78 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n28 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n28 | n94 | 5 | 15 | 12 (RBstart=0) | 5 | 28.1 | NOTE 2 | UL2/DL1  direct-hit |
| n28 | n94 | 10 | 15 | 50 (RBstart=0) | 50 | 18.7 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n48 | 5 | 15 | 12 (RBstart=0) | 5 | 27.1 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n48 | 40 | 15 | 200 (RBstart=0) | 1007 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n48 | 5 | 15 | 12 (RBstart=0) | 10 | 1.9 | NOTE 6 | UL2/DL1  near-miss |
| n66 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n77 | 20 | 15 | 100 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n66 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n78 | 20 | 15 | 100 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n66 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n70 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n70 | n77 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n70 | n77 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n70 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 23.9 | NOTE 2 | UL2/DL1  direct-hit |
| n70 | n78 | 10 | 15 | 50 (RBstart=0) | 100 | 13.8 | NOTE 2 | UL2/DL1  direct-hit |
| n70 | n78 | 5 | 15 | 25 (RBstart=0) | 10 | 1.1 | NOTE 6 | UL2/DL1  near-miss |
| n71 | n2510,11 | 5 | 15 | 8 (RBstart=0) | 5 | 10 | NOTE 3 | UL3/DL1  direct-hit |
| n71 | n2510,11 | 5 | 15 | 8 (RBstart=0) | 40 | 2.1 | NOTE 3 | UL3/DL1  direct-hit |
| n71 | n41 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n71 | n41 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| n71 | n70 | 5 | 15 | 8 (RBstart=0) | 5 | 9.9 | NOTE 3 | UL3/DL1  direct-hit |
| n71 | n70 | 5 | 15 | 20 (RBstart=0) | 25 | 4.1 | NOTE 3 | UL3/DL1  direct-hit |
| n85 | n66 | 5 | 15 | 8 (RBstart=0) | 10 | 10 | NOTE 3 | UL3/DL1  direct-hit |
| n85 | n66 | 5 | 15 | 20 (RBstart=0) | 40 | 2.4 | NOTE 3 | UL3/DL1  direct-hit |
| n85 | n77 | 5 | 15 | 10 (RBstart=0) | 10 | 10.4 | NOTE 5 | UL5/DL1  direct-hit |
| n85 | n77 | 5 | 15 | 20 (RBstart=0) | 100 | 0.7 | NOTE 5 | UL5/DL1  direct-hit |
| n92 | n78 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n92 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 1.0 | NOTE 4 | UL4/DL1  direct-hit |
| n94 | n78 | 5 | 15 | 16 (RBstart=0) | 10 | 10.8 | NOTE 4 | UL4/DL1  direct-hit |
| n94 | n78 | 5 | 15 | 25 (RBstart=0) | 100 | 1.4 | NOTE 4 | UL4/DL1  direct-hit |
| NOTE 1: These requirements apply when there is at least one individual RE within the uplink transmission bandwidth of the aggressor (lower) band for which the 2nd / 3rd / 4th / 5th transmitter harmonic is within the downlink transmission bandwidth of a victim (higher) band.  NOTE 2: The requirements should be verified for UL NR ARFCN of the aggressor (lower) band (superscript LB) such that in MHz and  with carrier frequency in the victim (higher) band in MHz and the channel bandwidth configured in the lower band.  NOTE 3: The requirements should be verified for UL NR ARFCN of the aggressor (lower) band (superscript LB) such that  in MHz and  with the carrier frequency in the victim (higher) band in MHz and the channel bandwidth configured in the low band.  NOTE 4: The requirements should be verified for UL NR-ARFCN of the aggressor (lower) band (superscript LB) such that in MHz and  with carrier frequency in the victim (higher) band in MHz and  the channel bandwidth configured in the lower band.  NOTE 5: The requirements should be verified for UL NR-ARFCN of the aggressor (lower) band (superscript LB) such that in MHz and  with carrier frequency in the victim (higher) band in MHz and  the channel bandwidth configured in the lower band.  NOTE 6: The requirements are only applicable to channel bandwidths no larger than 20 MHz and with a carrier frequency at  MHz offset from  in the victim (higher band) with , whereandare the channel bandwidths configured in the aggressor (lower) and victim (higher) bands in MHz, respectively.  NOTE 7: For these bandwidths, the minimum requirements are restricted to operation when carrier is configured as a downlink carrier part of CA configuration.  NOTE 8: For a UE which supports this band combination only when the Band n77 frequency range restriction defined in NOTE 12 of Table 5.2-1 applies, the MSD test point(s) cannot be verified for the band combination and the test point(s) can be skipped.  NOTE 9: Void.  NOTE 10: These requirements apply when the lower edge frequency of the 10 MHz, 15 MHz, or 20 MHz uplink channel in Band 71 is located at or below 668 MHz and the downlink channel in Band n25 is located with its upper edge at 1995 MHz.  NOTE 11: These requirements apply when the lower edge frequency of the uplink channel in Band n71 is located at or below 668 MHz and the downlink channel in Band n25 is located with its upper edge at 1990 MHz.  NOTE 12: In the USA, n77 band is restricted to 3450 – 3550 MHz and 3700 – 3980 MHz. There is no UL harmonic due to n24 UL in downlink for n77 operating in 3450 – 3550 MHz and 3700 – 3980 MHz.  NOTE 13: No requirements apply when there is at least one individual RE within the uplink transmission bandwidth of the low band for which the 2nd transmitter harmonic is within the downlink transmission bandwidth of the high band. The reference sensitivity for all active downlink component carriers is only verified when this is not the case (the requirements specified in clause 7.3.2 apply unless otherwise specified). | | | | | | | | |

The reference sensitivity for the shared access band does not apply when there is at least one individual RE within the shared access downlink transmission bandwidth which falls into the reference sensitivity exclusion region as specified in Table 7.3A.4-1a.

### *<< Next changes >>*

### 7.3A.5 Reference sensitivity exceptions due to intermodulation interference due to 2UL CA

For inter-band carrier aggregation with uplink assigned to two NR bands given in Table 7.3A.5-1, Table 7.3A.5-1a, Table 7.3A.5-2 and Table 7.3A.5-2a the reference sensitivity is defined only for the specific uplink and downlink test points specified in Table 7.3A.5-1, Table 7.3A.5-1a, Table 7.3A.5-2 and Table 7.3A.5-2a. For these test points the reference sensitivity requirement specified in Table 7.3.2-1a, Table 7.3.2-1b and Table 7.3.2-2 are relaxed by the amount of the corresponding parameter MSD given in Table 7.3A.5-1, Table 7.3A.5-1a, Table 7.3A.5-2 and Table 7.3A.5-2a.

## ***<<unchanged texts are omitted>>***

Table 7.3A.5-2: 3DL/2UL interband Reference sensitivity QPSK PREFSENS and uplink/downlink configurations

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Band / Channel bandwidth / NRB / Duplex mode | | | | | | | | Source of IMD |
| NR CA band combination | NR band | UL Fc  (MHz) | UL/DL BW  (MHz) | UL  CLRB | DL Fc (MHz) | MSD  (dB) | Duplex mode |  |
| CA\_n1-n3-n28 | n1 | 1975 | 5 | 25 | 2165 | N/A | FDD | N/A |
|  | n28 | 710.5 | 5 | 25 | 765.5 | N/A | FDD | N/A |
|  | n3 | 1723.5 | 5 | 25 | 1818.5 | 4.0 | FDD | IMD5 |
|  | n3 | 1780 | 5 | 25 | 1875 | N/A | FDD | N/A |
|  | n28 | 710.5 | 5 | 25 | 765.5 | N/A | FDD | N/A |
|  | n1 | 1949 | 5 | 25 | 2139 | 11.0 | FDD | IMD4 |
| CA\_n1-n3-n40 | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n3 | 1735 | 5 | 25 | 1830 | N/A | FDD | N/A |
|  | n40 | 2380 | 5 | 25 | 2380 | 8.0 | TDD | IMD5 |
| CA\_n1-n3-n41 | n1 | 1977.5 | 5 | 25 | 2167.5 | N/A | FDD | N/A |
|  | n3 | 1712.5 | 5 | 25 | 1807.5 | N/A | FDD | N/A |
|  | n41 | 2507.5 | 10 | 25 | 2507.5 | 5.0 | TDD | IMD5 |
| CA\_n1-n3-n77 | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n3 | 1750 | 5 | 25 | 1845 | N/A | FDD | N/A |
|  | n77 | 3700 | 10 | 50 | 3700 | 28.4 | TDD | IMD22 |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n3 | 1712.5 | 5 | 25 | 1807.5 | 31.5 | FDD | IMD21,2 |
|  | n77 | 3757.5 | 10 | 50 | 3757.5 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 31.0 | FDD | IMD21 |
|  | n3 | 1775 | 5 | 25 | 1870 | N/A | FDD | N/A |
|  | n77 | 3915 | 10 | 50 | 3915 | N/A | TDD | N/A |
| CA\_n1-n3-n78 | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n3 | 1750 | 5 | 25 | 1845 | N/A |  | N/A |
|  | n78 | 3700 | 10 | 52 | 3700 | 28.4 | TDD | IMD2 |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n3 | 1770 | 5 | 25 | 1865 | N/A |  | N/A |
|  | n78 | 3360 | 10 | 52 | 3360 | 11.2 | TDD | IMD4 |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n3 | 1735 | 5 | 25 | 1830 | 27.9 |  | IMD2 |
|  | n78 | 3780 | 10 | 52 | 3780 | N/A | TDD | N/A |
| CA\_n1-n3-n79 | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n79 | 4950 | 40 | 216 | 4950 | 4.7 | TDD | IMD5 |
|  | n3 | 1750 | 5 | 25 | 1845 | N/A | FDD | N/A |
|  | n79 | 4860 | 40 | 216 | 4860 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 3.6 | FDD | IMD5 |
| CA\_n1-n5-n7 | n1 | 1968 | 5 | 25 | 2158 | N/A | FDD | N/A |
|  | n7 | 2512 | 10 | 50 | 2632 | N/A | FDD | N/A |
|  | n5 | 835 | 5 | 25 | 880 | 1.0 | FDD | IMD5 |
| CA\_n1-n5-n78 | n1 | 1932 | 5 | 25 | 2122 | 18.1 | FDD | IMD3 |
|  | n5 | 829 | 5 | 25 | 874 | N/A | FDD | N/A |
|  | n78 | 3780 | 10 | 50 | 3780 | N/A | TDD | N/A |
|  | n1 | 1975 | 5 | 25 | 2165 | N/A | FDD | N/A |
|  | n5 | 840 | 5 | 25 | 885 | 3.1 | FDD | IMD5 |
|  | n78 | 3405 | 10 | 50 | 3405 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n78 | 3610 | 10 | 50 | 3610 | 15.7 | TDD | IMD3 |
| CA\_n1-n7-n8 | n1 | 1977.5 | 5 | 25 | 2167.5 | N/A | FDD | N/A |
|  | n7 | 2502.5 | 5 | 25 | 2622.5 | N/A | FDD | N/A |
|  | n8 | 882.5 | 5 | 25 | 927.5 | 1.0 | FDD | IMD5 |
| CA\_n1-n7-n26 | n1 | 1965 | 5 | 25 | 2155 | N/A | FDD | N/A |
|  | n7 | 2510 | 10 | 50 | 2630 | N/A | FDD | N/A |
|  | n26 | 830 | 5 | 50 | 875 | 3.5 | FDD | IMD5 |
| CA\_n1-n7-n28 | n1 | 1935 | 5 | 25 | 2125 | N/A | FDD | N/A |
|  | n7 | 2533 | 10 | 50 | 2653 | 30.0 | FDD | IMD2 |
|  | n28 | 718 | 5 | 25 | 773 | N/A | FDD | N/A |
|  | n1 | 1935 | 5 | 25 | 2125 | N/A | FDD | N/A |
|  | n7 | 2510 | 10 | 50 | 2630 | N/A | FDD | N/A |
|  | n28 | 730 | 10 | 50 | 785 | 4.5 | FDD | IMD5 |
| CA\_n1-n7-n40 | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n7 | 2510 | 5 | 25 | 2630 | 23 | FDD | IMD3 |
|  | n40 | 2390 | 5 | 25 | 2390 | N/A | TDD | N/A |
|  | n1 | 1930 | 5 | 25 | 2120 | 16.4 | FDD | IMD3 |
|  | n7 | 2530 | 5 | 25 | 2650 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
| CA\_n1-n7-n78 | n1 | 1977.5 | 5 | 25 | 2167.5 | N/A | FDD | N/A |
|  | n7 | 2507.5 | 5 | 25 | 2627.5 | 9.1 | FDD | IMD4 |
|  | n78 | 3305 | 10 | 50 | 3305 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 8.7 | FDD | IMD4 |
|  | n7 | 2510 | 10 | 50 | 2630 | N/A | FDD | N/A |
|  | n78 | 3580 | 10 | 50 | 3580 | N/A | TDD | N/A |
|  | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | N/A | FDD | N/A |
|  | n78 | 3390 | 10 | 50 | 3390 | 10.1 | TDD | IMD4 |
| CA\_n1-n8-n40 | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n8 | 885 | 5 | 25 | 930 | 8.0 | FDD | IMD4 |
|  | n40 | 2395 | 5 | 25 | 2395 | N/A | TDD | N/A |
| CA\_n1-n8-n78 | n1 | 1945 | 5 | 25 | 2135 | N/A | FDD | N/A |
|  | n8 | 900 | 5 | 25 | 945 | N/A | FDD | N/A |
|  | n78 | 3745 | 10 | 50 | 3745 | 14.9 | TDD | IMD3 |
|  | n1 | 1940 | 5 | 25 | 2130 | N/A | FDD | N/A |
|  | n8 | 895 | 5 | 25 | 940 | 3.3 | FDD | IMD5 |
|  | n78 | 3380 | 10 | 50 | 3380 | N/A | TDD | N/A |
| CA\_n1-n18-n28 | n1 | 1965 | 5 | 25 | 2155 | N/A | FDD | N/A |
|  | n28 | 708 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n18 | 822 | 5 | 25 | 867 | 4.6 | FDD | IMD5 |
|  | n18 | 825 | 5 | 25 | 870 | N/A | FDD | N/A |
|  | n28 | 738 | 5 | 25 | 793 | N/A | FDD | N/A |
|  | n1 | 1937 | 5 | 25 | 2127 | 4 | FDD | IMD5 |
| CA\_n1-n18-n41 | n1 | 1960 | 5 | 25 | 2150 | N/A | FDD | N/A |
|  | n41 | 2505 | 10 | 50 | 2505 | N/A | TDD | N/A |
|  | n18 | 825 | 5 | 25 | 870 | 3.3 | FDD | IMD5 |
| CA\_n1-n18-n77 | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n18 | 825 | 5 | 25 | 870 | N/A | FDD | N/A |
|  | n77 | 3600 | 10 | 50 | 3600 | 15.7 | TDD | IMD31 |
|  | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n77 | 3390 | 10 | 50 | 3390 | N/A | TDD | N/A |
|  | n18 | 825 | 5 | 25 | 870 | 3.5 | FDD | IMD5 |
|  | n1 | 1930 | 5 | 25 | 2120 | 16.4 | FDD | IMD3 |
|  | n18 | 825 | 5 | 25 | 870 | N/A | FDD | N/A |
|  | n77 | 3770 | 10 | 50 | 3770 | N/A | TDD | N/A |
| CA\_n1-n26-n78 | n1 | 1932 | 5 | 25 | 2122 | 18.1 | FDD | IMD3 |
|  | n26 | 829 | 5 | 25 | 874 | N/A | FDD | N/A |
|  | n78 | 3780 | 10 | 50 | 3780 | N/A | TDD | N/A |
|  | n1 | 1975 | 5 | 25 | 2165 | N/A | FDD | N/A |
|  | n26 | 840 | 5 | 25 | 885 | 3.1 | FDD | IMD5 |
|  | n78 | 3405 | 10 | 50 | 3405 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n26 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n78 | 3610 | 10 | 50 | 3610 | 15.7 | TDD | IMD3 |
| CA\_n1-n28-n41 | n1 | 1935 | 5 | 25 | 2125 | N/A | FDD | N/A |
|  | n28 | 718 | 5 | 25 | 773 | N/A | FDD | N/A |
|  | n41 | 2653 | 10 | 50 | 2653 | 30.1 | TDD | IMD22 |
|  | n1 | 1923 | 5 | 25 | 2113 | N/A | FDD | N/A |
|  | n41 | 2685 | 10 | 50 | 2685 | N/A | TDD | N/A |
|  | n28 | 707 | 5 | 25 | 762 | 29.3 | FDD | IMD21 |
| CA\_n1-n28-n77 | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n28 | 733 | 5 | 25 | 788 | N/A | FDD | N/A |
|  | n77 | 3416 | 10 | 50 | 3416 | 15.7 | TDD | IMD32 |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n77 | 3320 | 10 | 50 | 3320 | N/A | TDD | N/A |
|  | n28 | 735 | 5 | 25 | 790 | 4.2 | FDD | IMD5 |
|  | n28 | 740 | 5 | 25 | 795 | N/A | FDD | N/A |
|  | n77 | 3630 | 10 | 50 | 3630 | N/A | TDD | N/A |
|  | n1 | 1960 | 5 | 25 | 2150 | 15.7 | FDD | IMD3 |
| CA\_n1-n28-n78 | n1 | 1960 | 5 | 25 | 2150 | 15.7 | FDD | IMD3 |
|  | n28 | 740 | 5 | 25 | 795 | N/A | FDD | N/A |
|  | n78 | 3630 | 10 | 50 | 3630 | N/A | TDD | N/A |
|  | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n28 | 739 | 5 | 25 | 794 | 4.2 | FDD | IMD5 |
|  | n78 | 3352 | 10 | 50 | 3352 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n28 | 733 | 5 | 25 | 788 | N/A | FDD | N/A |
|  | n78 | 3416 | 10 | 50 | 3416 | 15.7 | TDD | IMD3 |
| CA\_n1A-n28A-n79A | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n28 | 730 | 5 | 25 | 785 | N/A | FDD | N/A |
|  | n79 | 4630 | 40 | 216 | 4630 | 14.9 | TDD | IMD31 |
|  | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n79 | 4648 | 40 | 216 | 4648 | N/A | TDD | N/A |
|  | n28 | 733 | 5 | 25 | 788 | 15.2 | FDD | IMD32 |
|  | n28 | 745.5 | 5 | 25 | 800.5 | N/A | FDD | N/A |
|  | n79 | 4420 | 40 | 216 | 4420 | N/A | TDD | N/A |
|  | n1 | 1977.5 | 5 | 25 | 2167.5 | 1.2 | FDD | IMD41 |
| CA\_n1-n40-n77 | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n77 | 3480 | 10 | 50 | 3480 | 9.8 | TDD | IMD41 |
|  | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n40 | 2340 | 5 | 25 | 2340 | 10.6 | TDD | IMD41 |
|  | n77 | 3450 | 10 | 50 | 3450 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 9.1 | FDD | IMD4 |
|  | n40 | 2380 | 5 | 25 | 2380 | N/A | TDD | N/A |
|  | n77 | 3450 | 10 | 50 | 3450 | N/A | TDD | N/A |
| CA\_n1-n40-n78 | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n78 | 3480 | 10 | 50 | 3480 | 9.8 | TDD | IMD41 |
|  | n1 | 1930 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n40 | 2340 | 5 | 25 | 2340 | 10.6 | TDD | IMD4 |
|  | n78 | 3450 | 10 | 50 | 3450 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 9.1 | FDD | IMD4 |
|  | n40 | 2380 | 5 | 25 | 2380 | N/A | TDD | N/A |
|  | n78 | 3450 | 10 | 50 | 3450 | N/A | TDD | N/A |
| CA\_n1-n41-n77 | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n41 | 2650 | 10 | 50 | 2650 | N/A | TDD | N/A |
|  | n77 | 3330 | 10 | 50 | 3330 | 19.6 | TDD | IMD31, 2 |
|  | n1 | 1975 | 5 | 10 | 2165 | N/A | FDD | N/A |
|  | n77 | 3410 | 10 | 50 | 3410 | N/A | TDD | N/A |
|  | n41 | 2515 | 10 | 50 | 2515 | 11.5 | TDD | IMD41 |
|  | n41 | 2640 | 10 | 50 | 2640 | N/A | TDD | N/A |
|  | n77 | 3710 | 10 | 50 | 3710 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 9.3 | FDD | IMD4 |
| CA\_n1-n41-n79 | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n41 | 2530 | 10 | 50 | 2530 | N/A | TDD | N/A |
|  | n79 | 4500 | 40 | 216 | 4500 | 19.0 | TDD | IMD21 |
|  | n1 | 1970 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n79 | 4500 | 40 | 216 | 4500 | N/A | TDD | N/A |
|  | n41 | 2530 | 10 | 50 | 2530 | 29.4 | TDD | IMD21 |
|  | n41 | 2530 | 10 | 50 | 2530 | N/A | TDD | N/A |
|  | n79 | 4690 | 40 | 216 | 4690 | N/A | TDD | N/A |
|  | n1 | 1970 | 5 | 25 | 2160 | 29.9 | FDD | IMD21 |
| CA\_n1-n77-n79 | n1 | 1950 | 5 | 25 | 2140 | 6.0 | FDD | IMD31,2 |
|  | n77 | 3400 | 10 | 50 | 3400 | N/A | TDD | N/A |
|  | n79 | 4660 | 40 | 216 | 4660 | N/A | TDD | N/A |
| CA\_n1-n78-n79 | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n78 | 3410 | 10 | 50 | 3410 | N/A | TDD | N/A |
|  | n79 | 4870 | 40 | 216 | 4870 | 15.9 | TDD | IMD31,3 |
|  | n1 | 1950 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n78 | 3490 | 10 | 50 | 3490 | 4.6 | TDD | IMD53 |
|  | n79 | 4670 | 40 | 216 | 4670 | N/A | TDD | N/A |
|  | n1 | 1950 | 5 | 25 | 2140 | 15.6 | FDD | IMD31,2 |
|  | n78 | 3400 | 10 | 50 | 3400 | N/A | TDD | N/A |
|  | n79 | 4660 | 40 | 216 | 4660 | N/A | TDD | N/A |
| CA\_n2-n5-n30 | n2 | 1870 | 5 | 25 | 1959 | N/A | FDD | N/A |
|  | n5 | 835 | 5 | 25 | 880 | 9.7 | FDD | IMD4 |
|  | n30 | 2310 | 10 | 50 | 2355 | N/A | FDD | N/A |
| CA\_n2-n5-n48 | n2 | 1882 | 5 | 25 | 1962 | 15.6 | FDD | IMD3 |
|  | n5 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n48 | 3640 | 5 | 25 | 3640 | N/A | TDD | N/A |
|  | n2 | 1905 | 5 | 25 | 1985 | N/A | FDD | N/A |
|  | n5 | 844 | 5 | 25 | 889 | N/A | FDD | N/A |
|  | n48 | 3593 | 5 | 25 | 3593 | 16.6 | TDD | IMD3 |
| CA\_n2-n5-n66 | n2 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | 7.2 | FDD | IMD4 |
| CA\_n2-n5-n77 | n2 | 1907.5 | 5 | 25 | 1987.5 | N/A | FDD | N/A |
|  | n5 | 842.5 | 5 | 25 | 887.5 | 3.8 | FDD | IMD55 |
|  | n77 | 3305 | 5 | 25 | 3305 | N/A | TDD | N/A |
|  | n2 | 1907 | 5 | 25 | 1987 | 16.5 | FDD | IMD35 |
|  | n5 | 846.5 | 5 | 25 | 891.5 | N/A | FDD | N/A |
|  | n77 | 3680 | 5 | 25 | 3680 | N/A | TDD | N/A |
|  | n2 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n77 | 3540 | 10 | 50 | 3540 | 16.0 | TDD | IMD31 |
| CA\_n2-n12-n30 | n2 | 1885 | 5 | 25 | 1965 | N/A | FDD | N/A |
|  | n12 | 708.5 | 5 | 25 | 738.5 | N/A | FDD | N/A |
|  | n30 | 2308 | 5 | 25 | 2353 | 12.0 | FDD | IMD4 |
| CA\_n2-n12-n775 | n2 | 1880 | 5 | 25 | 1960 | 16.5 | FDD | IMD32 |
|  | n12 | 707.5 | 5 | 25 | 737.5 | N/A | FDD | N/A |
|  | n77 | 3375 | 10 | 50 | 3375 | N/A | TDD | N/A |
|  | n2 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n12 | 707.5 | 5 | 25 | 737.5 | N/A | FDD | N/A |
|  | n77 | 3315 | 10 | 50 | 3315 | 16.0 | TDD | IMD31,2 |
| CA\_n2-n14-n66 | n2 | 1874 | 5 | 25 | 1954 | N/A | FDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n66 | 1762 | 5 | 25 | 2162 | 7.6 | FDD | IMD4 |
|  | n2 | 1874 | 5 | 25 | 1954 | 7.2 | FDD | IMD4 |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n66 | 1770 | 5 | 25 | 2170 | N/A | FDD | N/A |
| CA\_n2-n14-n77 | n2 | 1874 | 5 | 25 | 1954 | 16.5 | FDD | IMD3 |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n77 | 3540 | 10 | 50 | 3540 | N/A | TDD | N/A |
|  | n2 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n77 | 3466 | 10 | 50 | 3466 | 16.0 | TDD | IMD31 |
| CA\_n2-n30-n77 | n2 | 1906 | 5 | 25 | 1986 | 8.6 | FDD | IMD45 |
|  | n30 | 2312 | 5 | 25 | 2357 | N/A | FDD | N/A |
|  | n77 | 3305 | 10 | 50 | 3305 | N/A | TDD | N/A |
|  | n2 | 1905 | 5 | 25 | 1985 | N/A | FDD | N/A |
|  | n30 | 2309 | 5 | 25 | 2354 | 10.6 | FDD | IMD45 |
|  | n77 | 3361 | 10 | 50 | 3361 | N/A | TDD | N/A |
|  | n2 | 1860 | 5 | 25 | 1940 | N/A | FDD | N/A |
|  | n30 | 2309 | 5 | 25 | 2354 | 3.4 | FDD | IMD5 |
|  | n77 | 3967 | 10 | 50 | 3967 | N/A | TDD | N/A |
|  | n2 | 1870 | 5 | 25 | 1950 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 4180 | 10 | 50 | 4180 | 29.4 | TDD | IMD22,5 |
| CA\_n2-n48-n66 | n2 | 1855 | 5 | 25 | 1935 | N/A | FDD | N/A |
|  | n48 | 3625 | 5 | 25 | 3625 | 32.0 | TDD | IMD2 |
|  | n66 | 1770 | 5 | 25 | 2190 | N/A | FDD | N/A |
|  | n2 | 1905 | 5 | 25 | 1985 | N/A | FDD | N/A |
|  | n48 | 3560 | 5 | 25 | 3560 | N/A | TDD | N/A |
|  | n66 | 1755 | 5 | 25 | 2155 | 12.1 | FDD | IMD4 |
|  | n2 | 1880 | 5 | 25 | 1960 | 28.3 | FDD | IMD21 |
|  | n48 | 3695 | 5 | 25 | 3695 | N/A | TDD | N/A |
|  | n66 | 1735 | 5 | 25 | 2135 | N/A | FDD | N/A |
| CA\_n2-n66-n77 | n2 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n77 | 3620 | 10 | 50 | 3620 | 29.4 | TDD | IMD25 |
|  | n2 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n77 | 3900 | 10 | 50 | 3900 | 8.9 | TDD | IMD4 |
|  | n2 | 1855 | 5 | 25 | 1935 | N/A | FDD | N/A |
|  | n66 | 1715 | 5 | 25 | 2115 | 29.2 | FDD | IMD2 |
|  | n77 | 3970 | 10 | 50 | 3970 | N/A | TDD | N/A |
|  | n2 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | 10.4 | FDD | IMD4 |
|  | n77 | 3500 | 10 | 50 | 3500 | N/A | TDD | N/A |
|  | n2 | 1885 | 5 | 25 | 1965 | N/A | FDD | N/A |
|  | n66 | 1775 | 5 | 25 | 2175 | 4.0 | FDD | IMD5 |
|  | n77 | 3915 | 10 | 50 | 3915 | N/A | TDD | N/A |
|  | n2 | 1880 | 5 | 25 | 1960 | 32.1 | FDD | IMD2 |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n77 | 3720 | 10 | 50 | 3720 | N/A | TDD | N/A |
|  | n2 | 1880 | 5 | 25 | 1960 | 9.1 | FDD | IMD45 |
|  | n66 | 1770 | 5 | 25 | 2170 | N/A | FDD | N/A |
|  | n77 | 3350 | 10 | 50 | 3350 | N/A | TDD | N/A |
|  | n2 | 1880 | 5 | 25 | 1960 | 2.1 | FDD | IMD55 |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n77 | 3620 | 10 | 50 | 3620 | N/A | TDD | N/A |
| CA\_n3-n5-n7 | n3 | 1780 | 5 | 25 | 1875 | N/A | FDD | N/A |
|  | n5 | 845 | 5 | 25 | 890 | N/A | FDD | N/A |
|  | n7 | 2505 | 10 | 50 | 2625 | 30.0 | FDD | IMD24 |
|  | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n5 | 835 | 5 | 25 | 880 | 19.0 | FDD | IMD3 |
|  | n7 | 2560 | 10 | 50 | 2680 | N/A | FDD | N/A |
| CA\_n3-n5-n78 | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n5 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n78 | 3408 | 10 | 50 | 3408 | 16.1 | TDD | IMD3 |
|  | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n5 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n78 | 3512 | 10 | 50 | 3512 | 4.5 | TDD | IMD5 |
|  | n3 | 1767 | 5 | 25 | 1862 | 15.7 | FDD | IMD3 |
|  | n5 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n78 | 3540 | 10 | 50 | 3540 | N/A | TDD | N/A |
| CA\_n3-n7-n26 | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n7 | 2560 | 10 | 50 | 2680 | N/A | FDD | N/A |
|  | n26 | 835 | 5 | 25 | 880 | 17.5 | FDD | IMD3 |
|  | n3 | 1780 | 5 | 25 | 1875 | N/A | FDD | N/A |
|  | n7 | 2505 | 10 | 50 | 2625 | 29.0 | FDD | IMD24 |
|  | n26 | 845 | 5 | 25 | 890 | N/A | FDD | N/A |
| CA\_n3-n7-n28 | n3 | 1747 | 5 | 25 | 1842 | N/A | FDD | N/A |
|  | n7 | 2543 | 5 | 25 | 2663 | N/A | FDD | N/A |
|  | n28 | 741 | 5 | 25 | 796 | 20.0 | FDD | IMD2 |
|  | n3 | 1712.5 | 5 | 25 | 1807.5 | N/A | FDD | N/A |
|  | n7 | 2562 | 5 | 25 | 2682 | 17.0 | FDD | IMD3 |
|  | n28 | 743 | 5 | 25 | 798 | N/A | FDD | N/A |
|  | n3 | 1737.5 | 5 | 25 | 1832.5 | 16.5 | FDD | IMD2 |
|  | n7 | 2543 | 5 | 25 | 2663 | N/A | FDD | N/A |
|  | n28 | 710.5 | 5 | 25 | 765.5 | N/A | FDD | N/A |
| CA\_n3-n7-n67 | n3 | 1770 | 5 | 25 | 1865 | N/A | FDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | N/A | FDD | N/A |
|  | n67 | N/A | 5 | 25 | 750 | 20 | SDL | IMD2 |
| CA\_n3-n7-n78 | n3 | 1725 | 5 | 25 | 1820 | 17.6 | FDD | IMD3 |
|  | n7 | 2565 | 5 | 25 | 2685 | N/A | FDD | N/A |
|  | n78 | 3310 | 10 | 50 | 3310 | N/A | TDD | N/A |
|  | n3 | 1725 | 5 | 25 | 1820 | 8.6 | FDD | IMD4 |
|  | n7 | 2565 | 5 | 25 | 2685 | N/A | FDD | N/A |
|  | n78 | 3475 | 10 | 50 | 3475 | N/A | TDD | N/A |
|  | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n7 | 2560 | 5 | 25 | 2680 | N/A | FDD | N/A |
|  | n78 | 3390 | 10 | 50 | 3390 | 16.1 | TDD | IMD3 |
| CA\_n3-n8-n41 | n3 | 1722.5 | 5 | 25 | 1817.5 | N/A | FDD | N/A |
|  | n8 | 887.5 | 5 | 25 | 932.5 | N/A | FDD | N/A |
|  | n41 | 2610 | 10 | 50 | 2610 | 28.0 | FDD | IMD24 |
|  | n3 | 1725 | 5 | 25 | 1820 | N/A | FDD | N/A |
|  | n8 | 900 | 5 | 25 | 945 | 26.0 | FDD | IMD24 |
|  | n41 | 2516 | 10 | 50 | 2516 | N/A | FDD | N/A |
| CA\_n3-n8-n78 | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n8 | 910 | 5 | 25 | 955 | N/A | FDD | N/A |
|  | n78 | 3550 | 10 | 50 | 3550 | 16.1 | TDD | IMD3 |
|  | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n8 | 910 | 5 | 25 | 955 | N/A | FDD | N/A |
|  | n78 | 3370 | 10 | 50 | 3370 | 4.5 | TDD | IMD5 |
|  | n3 | 1725 | 5 | 25 | 1820 | 15.7 | FDD | IMD3 |
|  | n8 | 910 | 5 | 25 | 955 | N/A | FDD | N/A |
|  | n78 | 3640 | 10 | 50 | 3640 | N/A | TDD | N/A |
| CA\_n3-n18-n28 | n3 | 1712.5 | 5 | 25 | 1807.5 | N/A | FDD | N/A |
|  | n28 | 715 | 5 | 25 | 770 | 9.4 | FDD | IMD4 |
|  | n18 | 827.5 | 5 | 25 | 872.5 | N/A | FDD | N/A |
| CA\_n3-n18-n41 | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n41 | 2540 | 10 | 50 | 2540 | [N/A]1 | TDD | IMD2 |
|  | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n3 | 1725 | 5 | 25 | 1820 | N/A | FDD | N/A |
|  | n41 | 2630 | 10 | 50 | 2630 | 16.0 | TDD | IMD3 |
|  | n18 | 820 | 5 | 25 | 865 | 28.9 | FDD | IMD2 |
|  | n3 | 1765 | 5 | 25 | 1860 | N/A | FDD | N/A |
|  | n41 | 2630 | 10 | 50 | 2630 | N/A | TDD | N/A |
|  | n18 | 830 | 5 | 25 | 875 | [19.0] | FDD | IMD3 |
|  | n3 | 1725 | 5 | 25 | 1820 | N/A | FDD | N/A |
|  | n41 | 2670 | 5 | 25 | 2670 | N/A | TDD | N/A |
|  | n3 | 1755 | 5 | 25 | 1850 | 28.8 | FDD | IMD2 |
|  | n41 | 2670 | 10 | 50 | 2670 | N/A | TDD | N/A |
|  | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
| CA\_n3-n18-n77 | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n3 | 1770 | 5 | 25 | 1865 | N/A | FDD | N/A |
|  | n77 | 3410 | 10 | 50 | 3410 | 16.3 | TDD | IMD31,2 |
|  | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n3 | 1770 | 5 | 25 | 1865 | 15.7 | FDD | IMD3 |
|  | n77 | 3505 | 10 | 50 | 3505 | N/A | TDD | N/A |
| CA\_n3-n20-n28 | n3 | 1733 | 5 | 25 | 1828 | 9.4 | FDD | IMD4 |
|  | n20 | 852 | 5 | 25 | 811 | N/A | FDD | N/A |
|  | n28 | 728 | 5 | 25 | 783 | N/A | FDD | N/A |
|  | n3 | 1748 | 5 | 25 | 1843 | N/A | FDD | N/A |
|  | n20 | 847 | 5 | 25 | 806 | N/A | FDD | N/A |
|  | n28 | 738 | 5 | 25 | 793 | 9.4 | FDD | IMD4 |
| CA\_n3-n20-n67 | n3 | 1775 | 5 | 25 | 1870 | N/A | FDD | N/A |
|  | n20 | 840 | 5 | 25 | 799 | N/A | FDD | N/A |
|  | n67 | N/A | 5 | 25 | 745 | 9.4 | FDD | IMD4 |
| CA\_n3-n26-n78 | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n26 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n78 | 3408 | 10 | 50 | 3408 | 16.1 | TDD | IMD3 |
|  | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n26 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n78 | 3512 | 10 | 50 | 3512 | 4.5 | TDD | IMD5 |
|  | n3 | 1767 | 5 | 25 | 1862 | 15.7 | FDD | IMD3 |
|  | n26 | 839 | 5 | 25 | 884 | N/A | FDD | N/A |
|  | n78 | 3540 | 10 | 50 | 3540 | N/A | TDD | N/A |
| CA\_n3-n28-n41 | n3 | 1715 | 5 | 25 | 1810 | N/A | FDD | N/A |
|  | n28 | 743 | 5 | 25 | 798 | N/A | FDD | N/A |
|  | n41 | 2518 | 5 | 25 | 2518 | 27.4 | TDD | IMD2 |
|  | n3 | 1715 | 5 | 25 | 1810 | N/A | FDD | N/A |
|  | n28 | 743 | 5 | 25 | 798 | N/A | FDD | N/A |
|  | n41 | 2687 | 5 | 25 | 2687 | 15.9 | TDD | IMD3 |
|  | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n41 | 2510 | 5 | 25 | 2510 | N/A | TDD | N/A |
|  | n28 | 735 | 5 | 25 | 790 | 26.0 | FDD | IMD24 |
|  | n28 | 710.5 | 5 | 25 | 765.5 | N/A | FDD | N/A |
|  | n41 | 2543 | 10 | 50 | 2543 | N/A | TDD | N/A |
|  | n3 | 1737.5 | 5 | 25 | 1832.5 | 26.0 | FDD | IMD2 |
| CA\_n3-n28-n77 | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n28 | 733 | 5 | 25 | 788 | N/A | FDD | N/A |
|  | n77 | 4173 | 10 | 50 | 4173 | 15.9 | TDD | IMD3 |
|  | n28 | 735 | 5 | 25 | 790 | N/A | FDD | N/A |
|  | n77 | 3320 | 10 | 50 | 3320 | N/A | TDD | N/A |
|  | n3 | 1755 | 5 | 25 | 1850 | 17.0 | FDD | IMD3 |
|  | n3 | 1712.5 | 5 | 25 | 1807.5 | N/A | FDD | N/A |
|  | n77 | 4195 | 10 | 50 | 4195 | N/A | TDD | N/A |
|  | n28 | 715 | 5 | 25 | 770 | 15.3 | FDD | IMD3 |
| CA\_n3-n28-n78 | n28 | 735 | 5 | 25 | 790 | N/A | FDD | N/A |
|  | n78 | 3320 | 10 | 50 | 3320 | N/A | TDD | IMD3 |
|  | n3 | 1755 | 5 | 25 | 1850 | 17.3 | FDD | N/A |
|  | n3 | 1750 | 5 | 25 | 1845 | N/A | FDD | N/A |
|  | n28 | 743 | 5 | 25 | 798 | N/A | FDD | N/A |
|  | n78 | 3764 | 10 | 50 | 3764 | 4.5 | TDD | IMD5 |
| CA\_n3-n28-n79 | n3 | 1770 | 5 | 25 | 1865 | N/A | N/A | n3 |
|  | n28 | 725 | 5 | 25 | 780 | N/A | N/A | n28 |
|  | n79 | 4585 | 40 | 216 | 4585 | 9.4 | IMD41| | n79 |
|  | n3 | 1770 | 5 | 25 | 1865 | N/A | N/A | n3 |
|  | n79 | 4530 | 40 | 216 | 4530 | N/A | N/A | n79 |
|  | n28 | 725 | 5 | 25 | 780 | 10.3 | IMD4 | n28 |
|  | n28 | 725 | 5 | 25 | 780 | N/A | N/A | n28 |
|  | n79 | 4770 | 40 | 216 | 4770 | N/A | N/A | n79 |
|  | n3 | 1775 | 5 | 25 | 1870 | 5.7 | IMD5 | n3 |
| CA\_n3-40-n41 | n3 | 1747.5 | 5 | 25 | 1842.5 | 1.0 | FDD | IMD5 |
|  | n40 | 2347.5 | 5 | 25 | 2347.5 | N/A | TDD | N/A |
|  | n41 | 2600 | 10 | 50 | 2600 | N/A | TDD | N/A |
| CA\_n3-n40-n77 | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n40 | 2320 | 5 | 25 | 2320 | N/A | TDD | N/A |
|  | n77 | 4050 | 10 | 50 | 4050 | 19.0 | TDD | IMD21 |
|  | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | 29.4 | TDD | IMD21 |
|  | n77 | 4030 | 10 | 50 | 4030 | N/A | TDD | N/A |
|  | n3 | 1725 | 5 | 25 | 1820 | 29.9 | FDD | IMD22 |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n77 | 4130 | 10 | 50 | 4130 | N/A | TDD | N/A |
| CA\_n3-n41-n77 | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n77 | 3900 | 10 | 50 | 3900 | N/A | TDD | N/A |
|  | n41 | 2640 | 5 | 25 | 2640 | 5.3 | TDD | IMD5 |
|  | n41 | 2620 | 5 | 25 | 2620 | N/A | TDD | N/A |
|  | n77 | 3400 | 10 | 50 | 3400 | N/A | TDD | N/A |
|  | n3 | 1745 | 5 | 25 | 1840 | 16.4 | FDD | IMD3 |
|  | n41 | 2580 | 5 | 25 | 2580 | N/A | TDD | N/A |
|  | n3 | 1720 | 5 | 25 | 1815 | N/A | FDD | N/A |
|  | n77 | 3440 | 10 | 50 | 3440 | 16.8 | TDD | IMD31 |
| CA\_n3-n41-n78 | n3 | 1730 | 5 | 25 | 1825 | N/A | FDD | N/A |
|  | n41 | 2560 | 10 | 50 | 2560 | N/A | TDD | N/A |
|  | n78 | 3390 | 10 | 50 | 3390 | 16.4 | TDD | IMD3 |
|  | n3 | 1745 | 5 | 25 | 1840 | 16.4 | TDD | IMD3 |
|  | n41 | 2620 | 5 | 25 | 2620 | N/A | FDD | N/A |
|  | n78 | 3400 | 10 | 50 | 3400 | N/A | TDD | N/A |
| CA\_n3-n41-n79 | n3 | 1755 | 5 | 25 | 1850 | 29.4 | FDD | IMD21 |
|  | n41 | 2570 | 10 | 50 | 2570 | N/A | TDD | N/A |
|  | n79 | 4420 | 40 | 216 | 4420 | N/A | TDD | N/A |
|  | n3 | 1770 | 5 | 25 | 1865 | N/A | FDD | N/A |
|  | n41 | 2670 | 10 | 50 | 2670 | 30.2 | TDD | IMD21 |
|  | n79 | 4440 | 40 | 216 | 4440 | N/A | TDD | N/A |
|  | n3 | 1770 | 5 | 25 | 1865 | N/A | FDD | N/A |
|  | n41 | 2670 | 10 | 50 | 2670 | N/A | TDD | N/A |
|  | n79 | 4440 | 40 | 216 | 4440 | 30.8 | TDD | IMD21 |
| CA\_n3-n67-n78 | n3 | N/A | 5 | 25 | 1877.5 | 2.2 | FDD | IMD7 |
|  | n67 | N/A | 5 | N/A | N/A | N/A | SDL | N/A |
|  | n7810 | 3305 | 10 | 1 RBSTART=25 | 3305 | N/A | TDD | N/A |
|  |  | 3780 | 10 | 1 RBSTART=25 | 3780 |  |  |  |
| CA\_n3-n77-n79 | n77 | 3350 | 10 | 50 | 3350 | N/A | FDD | N/A |
|  | n79 | 4840 | 40 | 216 | 4840 | N/A | TDD | N/A |
|  | n3 | 1765 | 5 | 25 | 1860 | 15.7 | TDD | IMD31, 2  |2\*fBn77-fBn79| |
| CA\_n5-n7-n77 | n5 | 844 | 5 | 25 | 889 | N/A | FDD | N/A |
|  | n7 | 2525 | 5 | 25 | 2645 | 30.1 | FDD | IMD2 |
|  | n77 | 3489 | 10 | 50 | 3489 | N/A | TDD | N/A |
|  | n5 | 834 | 5 | 25 | 879 | 30.2 | FDD | IMD21 |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n77 | 3429 | 10 | 50 | 3429 | N/A | TDD | N/A |
|  | n5 | 827 | 5 | 25 | 852 | N/A | FDD | N/A |
|  | n7 | 2503 | 5 | 25 | 2623 | N/A | FDD | N/A |
|  | n77 | 3330 | 10 | 50 | 3330 | 30.2 | TDD | IMD21 |
| CA\_n5-n7-n78 | n5 | 834 | 5 | 25 | 879 | 30.2 | FDD | IMD2 |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n78 | 3429 | 10 | 50 | 3429 | N/A | TDD | N/A |
|  | n5 | 830 | 5 | 25 | 875 | 3.3 | FDD | IMD5 |
|  | n7 | 2525 | 5 | 25 | 2645 | N/A | FDD | N/A |
|  | n78 | 3350 | 10 | 50 | 3350 | N/A | TDD | N/A |
|  | n5 | 844 | 5 | 25 | 889 | N/A | FDD | N/A |
|  | n7 | 2525 | 5 | 25 | 2645 | 30.1 | FDD | IMD2 |
|  | n78 | 3489 | 10 | 50 | 3489 | N/A | TDD | N/A |
|  | n5 | 835 | 5 | 25 | 880 | N/A | FDD | N/A |
|  | n7 | 2540 | 5 | 25 | 2660 | N/A | FDD | N/A |
|  | n78 | 3375 | 10 | 50 | 3375 | 29.7 | TDD | IMD2 |
|  | n5 | 835 | 5 | 25 | 880 | N/A | FDD | N/A |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n78 | 3430 | 10 | 50 | 3430 | 9.7 | TDD | IMD4 |
| CA\_n5-n12-n77 | n5 | 835 | 5 | 25 | 880 | 3.9 | FDD | IMD5 |
|  | n12 | 707.5 | 5 | 25 | 737.5 | N/A | FDD | N/A |
|  | n77 | 3710 | 10 | 50 | 3710 | N/A | TDD | N/A |
|  | n5 | 835 | 5 | 25 | 880 | N/A | FDD | N/A |
|  | n12 | 710 | 5 | 25 | 740 | 4.4 | FDD | IMD55 |
|  | n77 | 4080 | 10 | 50 | 4080 | N/A | TDD | N/A |
|  | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n12 | 707.5 | 5 | 25 | 737.5 | N/A | FDD | N/A |
|  | n77 | 3905 | 10 | 50 | 3905 | 4.4 | TDD | IMD5 |
| CA\_n5-n14-n775 | n5 | 835 | 5 | 25 | 880 | 3.9 | FDD | IMD5 |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n77 | 4052 | 10 | 50 | 4052 | N/A | TDD | N/A |
|  | n5 | 846.5 | 5 | 25 | 891.5 | N/A | FDD | N/A |
|  | n14 | 795.5 | 5 | 25 | 765.5 | 11.6 | FDD | IMD41 |
|  | n77 | 3305 | 10 | 50 | 3305 | N/A | TDD | N/A |
|  | n5 | 840 | 5 | 25 | 885 | N/A | FDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n77 | 3313 | 10 | 50 | 3313 | 10.3 | TDD | IMD41 |
| CA\_n5-n25-n66 | n5 | 834 | 5 | 25 | 879 | N/A | FDD | N/A |
|  | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n66 | 1712 | 5 | 25 | 2132 | 7.2 | FDD | IMD4 |
| CA\_n5-n25-n77 | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n77 | 3540 | 10 | 50 | 3540 | 16.0 | TDD | IMD3 |
|  | n5 | 844 | 5 | 25 | 889 | 3.8 | FDD | IMD55 |
|  | n25 | 1907 | 5 | 25 | 1987 | N/A | FDD | N/A |
|  | n77 | 3305 | 10 | 50 | 3305 | N/A | TDD | N/A |
|  | n5 | 846.5 | 5 | 25 | 891.5 | N/A | FDD | N/A |
|  | n25 | 1907 | 5 | 25 | 1987 | 16.5 | FDD | IMD3 |
|  | n77 | 3680 | 10 | 25 | 3680 | N/A | TDD | N/A |
| CA\_n5-n25-n78 | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n78 | 3560 | 10 | 50 | 3560 | 16.1 | TDD | IMD3 |
| CA\_n5-n29-n77 | n5 | 845 | 5 | 25 | 890 | N/A | FDD | N/A |
|  | n29 | N/A | 5 | N/A | 720 | 4.4 | SDL | IMD57 |
|  | n77 | 4100 | 10 | 50 | 4100 | N/A | TDD | N/A |
| CA\_n5-n30-n66 | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n30 | 2307.5 | 5 | 25 | 2352.5 | N/A | FDD | N/A |
|  | n66 | 1725 | 5 | 25 | 2125 | 4 | FDD | IMD5 |
| CA\_n5-n30-n77 | n5 | 835 | 5 | 25 | 880 | 15.2 | FDD | IMD31 |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3740 | 10 | 50 | 3740 | N/A | TDD | N/A |
|  | n5 | 835 | 5 | 25 | 880 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | 13.2 | FDD | IMD35 |
|  | n77 | 4025 | 10 | 50 | 4025 | N/A | TDD | N/A |
|  | n5 | 840 | 5 | 25 | 885 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3780 | 10 | 50 | 3780 | 16.1 | TDD | IMD3 |
| CA\_n5-n40-n78 | n5 | 835 | 5 | 25 | 880 | 15.2 | FDD | IMD3 |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n78 | 3740 | 10 | 50 | 3740 | N/A | TDD | N/A |
|  | n5 | 840 | 5 | 25 | 885 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n78 | 3780 | 10 | 50 | 3780 | 16.1 | TDD | IMD3 |
| CA\_n5-n48-n66 | n5 | 829 | 5 | 25 | 874 | N/A | FDD | N/A |
|  | n48 | 3622 | 10 | 50 | 3622 | 3.6 | TDD | IMD5 |
|  | n66 | 1760 | 5 | 216 | 2160 | N/A | FDD | N/A |
| CA\_n5-n66-n77 | n5 | 845 | 5 | 25 | 890 | N/A | FDD | N/A |
|  | n66 | 1775 | 5 | 25 | 2175 | N/A | FDD | N/A |
|  | n77 | 3465 | 10 | 50 | 3465 | 16.1 | TDD | IMD3 |
|  | n5 | 826.5 | 5 | 25 | 871.5 | N/A | FDD | N/A |
|  | n66 | 1712.5 | 5 | 25 | 2112.5 | N/A | FDD | N/A |
|  | n77 | 4192 | 10 | 50 | 4192 | 8.2 | TDD | IMD45 |
|  | n5 | 835 | 5 | 25 | 880 | N/A | FDD | N/A |
|  | n66 | 1735 | 5 | 25 | 2135 | N/A | FDD | N/A |
|  | n77 | 3535 | 10 | 50 | 3535 | 3.3 | TDD | IMD5 |
|  | n5 | 826.5 | 5 | 25 | 871.5 | N/A | FDD | N/A |
|  | n66 | 1742 | 5 | 25 | 2142 | 13.2 | FDD | IMD3 |
|  | n77 | 3795 | 10 | 50 | 3795 | N/A | TDD | N/A |
| CA\_n5-n66-n78 | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n66 | 1720 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n78 | 3380 | 10 | 50 | 3380 | 16.1 | TDD | IMD3 |
| CA\_n5-n66-n78 | n5 | 830 | 5 | 25 | 875 | N/A | FDD | N/A |
|  | n66 | 1720 | 5 | 25 | 2120 | 13.2 | FDD | IMD3 |
|  | n78 | 3780 | 10 | 50 | 3780 | N/A | TDD | N/A |
| CA\_n7-n8-n40 | n7 | 2530 | 5 | 25 | 2650 | N/A | FDD | N/A |
|  | n8 | 905 | 5 | 25 | 950 | N/A | FDD | N/A |
|  | n40 | 2345 | 5 | 25 | 2345 | 3.0 | TDD | IMD5 |
| CA\_n7-n8-n78 | n7 | 2555 | 5 | 25 | 2675 | N/A | FDD | N/A |
|  | n8 | 900 | 5 | 25 | 945 | N/A | FDD | N/A |
|  | n78 | 3455 | 10 | 50 | 3455 | 28.5 | TDD | IMD2 |
|  | n7 | 2555 | 5 | 25 | 2675 | N/A | FDD | N/A |
|  | n8 | 900 | 5 | 25 | 945 | 29.7 | FDD | IMD2 |
|  | n78 | 3500 | 10 | 50 | 3500 | N/A | TDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | N/A | FDD | N/A |
|  | n8 | 895 | 5 | 25 | 940 | 3.1 | FDD | IMD5 |
|  | n78 | 3310 | 10 | 50 | 3310 | N/A | TDD | N/A |
|  | n7 | 2530 | 5 | 25 | 2650 | 28 | FDD | IMD2 |
|  | n8 | 895 | 5 | 25 | 940 | N/A | FDD | N/A |
|  | n78 | 3545 | 10 | 50 | 3545 | N/A | TDD | N/A |
| CA\_n7-n25-n77 | n7 | 2520 | 5 | 25 | 2640 | 5.3 | FDD | IMD5 |
|  | n25 | 1870 | 5 | 25 | 1950 | N/A | FDD | N/A |
|  | n77 | 4125 | 10 | 50 | 4125 | N/A | TDD | N/A |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n25 | 1870 | 5 | 25 | 1950 | 8.6 | FDD | IMD4 |
|  | n77 | 3525 | 10 | 50 | 3525 | N/A | TDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | N/A | FDD | N/A |
|  | n25 | 1905 | 5 | 25 | 1985 | N/A | FDD | N/A |
|  | n77 | 3750 | 10 | 50 | 3750 | 4.5 | TDD | IMD5 |
| CA\_n7-n25-n78 | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n25 | 1870 | 5 | 25 | 1950 | 8.6 | FDD | IMD4 |
|  | n78 | 3525 | 10 | 50 | 3525 | N/A | TDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | N/A | FDD | N/A |
|  | n25 | 1905 | 5 | 25 | 1985 | N/A | FDD | N/A |
|  | n78 | 3750 | 10 | 50 | 3750 | 4.5 | TDD | IMD5 |
| CA\_n7-n26-n78 | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n26 | 834 | 5 | 25 | 879 | 30.2 | FDD | IMD2 |
|  | n78 | 3429 | 10 | 50 | 3429 | N/A | TDD | N/A |
|  | n7 | 2525 | 5 | 25 | 2645 | N/A | FDD | N/A |
|  | n26 | 830 | 5 | 25 | 875 | 3.3 | FDD | IMD5 |
|  | n78 | 3350 | 10 | 50 | 3350 | N/A | TDD | N/A |
|  | n7 | 2525 | 5 | 25 | 2645 | 30.1 | FDD | IMD2 |
|  | n26 | 844 | 5 | 25 | 889 | N/A | FDD | N/A |
|  | n78 | 3489 | 10 | 50 | 3489 | N/A | TDD | N/A |
|  | n7 | 2540 | 5 | 25 | 2660 | N/A | FDD | N/A |
|  | n26 | 835 | 5 | 25 | 880 | N/A | FDD | N/A |
|  | n78 | 3375 | 10 | 50 | 3375 | 29.7 | TDD | IMD2 |
| CA\_n7-n28-n78 | n7 | 2567.5 | 5 | 25 | 2687.5 | N/A | FDD | N/A |
|  | n28 | 727.5 | 5 | 25 | 782.5 | 28.8 | FDD | IMD2 |
|  | n78 | 3350 | 10 | 50 | 3350 | N/A | TDD | N/A |
|  | n7 | 2567.5 | 5 | 25 | 2687.5 | N/A | FDD | N/A |
|  | n28 | 727.5 | 5 | 25 | 782.5 | 3.0 | FDD | IMD5 |
|  | n78 | 3460 | 10 | 50 | 3460 | N/A | TDD | N/A |
|  | n7 | 2530 | 5 | 25 | 2650 | 30.5 | FDD | IMD2 |
|  | n28 | 740 | 5 | 25 | 795 | N/A | FDD | N/A |
|  | n78 | 3390 | 10 | 50 | 3390 | N/A | TDD | N/A |
|  | n7 | 2565 | 5 | 25 | 2685 | N/A | FDD | N/A |
|  | n28 | 745 | 5 | 25 | 800 | N/A | FDD | N/A |
|  | n78 | 3310 | 10 | 50 | 3310 | 29.7 | TDD | IMD2 |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n28 | 720 | 5 | 25 | 775 | N/A | FDD | N/A |
|  | n78 | 3714 | 10 | 50 | 3714 | 9.7 | TDD | IMD4 |
| CA\_n7-n40-n78 | n7 | 2510 | 5 | 25 | 2630 | 10.1 | FDD | IMD4 |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n78 | 3625 | 10 | 50 | 3625 | N/A | TDD | N/A |
|  | n7 | 2510 | 5 | 25 | 2630 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | 8.7 | TDD | IMD4 |
|  | n78 | 3785 | 10 | 50 | 3785 | N/A | TDD | N/A |
| CA\_n7-n46-n78 | n7 | 2530 | 5 | 25 | 2650 | N/A | FDD | N/A |
|  | n46 | 5840 | 20 | 100 | 5840 | N/A | TDD | N/A |
|  | n78 | 3310 | 10 | 50 | 3310 | 29,7 | TDD | IMD21 |
|  | n7 | 2530 | 5 | 25 | 2650 | N/A | FDD | N/A |
|  | n46 | 5840 | 20 | 100 | 5840 | 25.2 | TDD | IMD21 |
|  | n78 | 3310 | 10 | 50 | 3310 | N/A | TDD | N/A |
| CA\_n7-n66-n77 | n7 | 2560 | 5 | 25 | 2680 | N/A | FDD | N/A |
|  | n66 | 1730 | 5 | 25 | 2130 | N/A | FDD | N/A |
|  | n77 | 3390 | 10 | 50 | 3390 | 16.1 | TDD | IMD3 |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n66 | 1750 | 5 | 25 | 2150 | 8.7 | FDD | IMD4 |
|  | n77 | 3625 | 10 | 50 | 3625 | N/A | TDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | 3.4 | FDD | IMD5 |
|  | n66 | 1720 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n77 | 3900 | 10 | 50 | 3900 | N/A | TDD | N/A |
|  | n7 | 2520 | 5 | 25 | 2640 | N/A | FDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n77 | 4040 | 10 | 50 | 4040 | 4.2 | TDD | IMD5 |
| CA\_n7-n66-n78 | n7 | 2560 | 5 | 25 | 2680 | N/A | FDD | N/A |
|  | n66 | 1730 | 5 | 25 | 2130 | N/A | FDD | N/A |
|  | n78 | 3390 | 10 | 50 | 3390 | 16.1 | TDD | IMD3 |
|  | n7 | 2550 | 5 | 25 | 2670 | N/A | FDD | N/A |
|  | n66 | 1750 | 5 | 25 | 2150 | 8.7 | FDD | IMD4 |
|  | n78 | 3625 | 10 | 50 | 3625 | N/A | TDD | N/A |
| CA\_n7-n71-n77 | n7 | 2505 | 5 | 25 | 2625 | N/A | FDD | N/A |
|  | n71 | 666 | 5 | 25 | 620 | N/A | FDD | N/A |
|  | n77 | 3837 | 10 | 50 | 3837 | 16.0 | TDD | IMD3 |
|  | n7 | 2550 | 5 | 25 | 2670 | 29.6 | FDD | IMD2 |
|  | n71 | 680 | 5 | 25 | 634 | N/A | FDD | N/A |
|  | n77 | 3350 | 10 | 50 | 3350 | N/A | TDD | N/A |
| CA\_n8-n40-n78 | n8 | 905 | 5 | 25 | 950 | 30.5 | FDD | IMD2 |
|  | n40 | 2380 | 5 | 25 | 2380 | N/A | TDD | N/A |
|  | n78 | 3330 | 10 | 50 | 3330 | N/A | TDD | N/A |
|  | n8 | 890 | 5 | 25 | 935 | 19.8 | FDD | IMD3 |
|  | n40 | 2320 | 5 | 25 | 2320 | N/A | TDD | N/A |
|  | n78 | 3705 | 10 | 50 | 3705 | N/A | TDD | N/A |
|  | n8 | 910 | 5 | 25 | 955 | N/A | FDD | N/A |
|  | n40 | 2395 | 5 | 25 | 2395 | 28 | TDD | IMD2 |
|  | n78 | 3305 | 10 | 50 | 3305 | N/A | TDD | N/A |
|  | n8 | 910 | 5 | 25 | 955 | N/A | FDD | N/A |
|  | n40 | 2395 | 10 | 50 | 2395 | N/A | TDD | N/A |
|  | n78 | 3305 | 10 | 50 | 3305 | 28.8 | TDD | IMD24 |
| CA\_n12-n30-n77 | n12 | 710 | 5 | 25 | 740 | 15.2 | FDD | IMD31 |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3880 | 10 | 50 | 3880 | N/A | TDD | N/A |
|  | n12 | 707.5 | 5 | 25 | 737.5 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | 13.2 | FDD | IMD3 |
|  | n77 | 3770 | 10 | 50 | 3770 | N/A | TDD | N/A |
|  | n12 | 707 | 5 | 25 | 737 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3913 | 10 | 50 | 3913 | 16.0 | TDD | IMD3 |
| CA\_n12-n66-n77 | n12 | 710 | 5 | 25 | 740 | 15.2 | FDD | IMD35 |
|  | n66 | 1720 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n77 | 4180 | 10 | 50 | 4180 | N/A | TDD | N/A |
|  | n12 | 707 | 5 | 25 | 737 | N/A | FDD | N/A |
|  | n66 | 1726 | 5 | 25 | 2126 | 13.2 | FDD | IMD3 |
|  | n77 | 3540 | 10 | 50 | 3540 | N/A | TDD | N/A |
|  | n12 | 704 | 5 | 25 | 734 | N/A | FDD | N/A |
|  | n66 | 1723 | 5 | 25 | 2123 | N/A | FDD | N/A |
|  | n77 | 4150 | 10 | 50 | 4150 | 16.0 | TDD | IMD31,2,5 |
| CA\_n13-n25-n66 | n13 | 782 | 5 | 25 | 751 | N/A | FDD | N/A |
|  | n66 | 1736 | 5 | 25 | 2156 | 7..2 | FDD | IMD4 |
|  | n25 | 1860 | 5 | 25 | 1940 | N/A | FDD | N/A |
|  | n13 | 780 | 10 | 50 | 749 | N/A | FDD | N/A |
|  | n25 | 1860 | 5 | 25 | 1940 | 6.2 | FDD | IMD4 |
|  | n66 | 1750 | 5 | 25 | 2150 | N/A | FDD | N/A |
| CA\_n13-n25-n77 | n13 | 782 | 5 | 25 | 751 | N/A | FDD | N/A |
|  | n25 | 1896 | 5 | 25 | 1976 | N/A | FDD | N/A |
|  | n77 | 3460 | 10 | 50 | 3460 | 17.3 | TDD | IMD31,2 |
|  | n13 | 782 | 5 | 25 | 751 | N/A | FDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | 16.0 | FDD | IMD3 |
|  | n77 | 3524 | 10 | 50 | 3524 | N/A | TDD | N/A |
| CA\_n13-n66-n77 | n13 | 782 | 5 | 25 | 751 | N/A | FDD | N/A |
|  | n66 | 1746 | 5 | 25 | 2146 | 17.1 | FDD | IMD3 |
|  | n77 | 3710 | 10 | 50 | 3710 | N/A | TDD | N/A |
|  | n13 | 781 | 5 | 25 | 750 | 15.2 | FDD | IMD35 |
|  | n66 | 1710 | 5 | 25 | 2110 | N/A | FDD | N/A |
|  | n77 | 4170 | 10 | 50 | 4170 | N/A | TDD | N/A |
|  | n13 | 782 | 5 | 25 | 751 | N/A | FDD | N/A |
|  | n66 | 1770 | 5 | 25 | 2170 | N/A | FDD | N/A |
|  | n77 | 3334 | 10 | 50 | 3334 | 16.3 | TDD | IMD31,2,5 |
| CA\_n14-n30-n77 | n14 | 793 | 5 | 25 | 763 | 15.2 | FDD | IMD31 |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3857 | 10 | 50 | 3857 | N/A | TDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | 13.2 | FDD | IMD3 |
|  | n77 | 3941 | 10 | 50 | 3941 | N/A | TDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3896 | 10 | 50 | 3896 | 16.0 | TDD | IMD3 |
| CA\_n14-n66-n77 | n14 | 793 | 5 | 25 | 763 | 15.2 | FDD | IMD35 |
|  | n66 | 1712.5 | 5 | 25 | 2112.5 | N/A | FDD | N/A |
|  | n77 | 4188 | 10 | 50 | 4188 | N/A | TDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n66 | 1755 | 5 | 25 | 2155 | 13.2 | FDD | IMD3 |
|  | n77 | 3741 | 10 | 50 | 3741 | N/A | TDD | N/A |
|  | n14 | 793 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n66 | 1755 | 5 | 25 | 2155 | N/A | FDD | N/A |
|  | n77 | 3341 | 10 | 50 | 3341 | 16.0 | TDD | IMD31,2,5 |
| CA\_n18-n28-n41 | n18 | 825 | 5 | 25 | 870 | N/A | FDD | N/A |
|  | n28 | 738 | 5 | 25 | 793 | N/A | FDD | N/A |
|  | n41 | 2562 | 10 | 50 | 2562 | 4.4 | TDD | IMD5 |
|  | n18 | 825 | 5 | 25 | 870 | N/A | FDD | N/A |
|  | n41 | 2505 | 10 | 50 | 2505 | N/A | TDD | N/A |
|  | n28 | 740 | 5 | 25 | 795 | 3.9 | FDD | IMD5 |
| CA\_n18-n28-n77 | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n28 | 710 | 5 | 25 | 765 | N/A | FDD | N/A |
|  | n77 | 3770 | 10 | 50 | 3770 | 4.0 | TDD | IMD5 |
|  | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n28 | 723 | 5 | 25 | 778 | 4.4 | FDD | IMD5 |
|  | n77 | 4058 | 10 | 50 | 4058 | N/A | TDD | N/A |
|  | n18 | 820 | 5 | 25 | 865 | 3.9 | FDD | IMD5 |
|  | n28 | 723 | 5 | 25 | 778 | N/A | FDD | N/A |
|  | n77 | 3757 | 10 | 50 | 3757 | N/A | TDD | N/A |
| CA\_n18-n41-n77 | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n41 | 2570 | 5 | 25 | 2570 | N/A | TDD | N/A |
|  | n77 | 3390 | 10 | 50 | 3390 | 30.1 | TDD | IMD22,4 |
|  | n18 | 820 | 5 | 25 | 865 | N/A | FDD | N/A |
|  | n77 | 3450 | 10 | 50 | 3450 | N/A | TDD | N/A |
|  | n41 | 2630 | 5 | 25 | 2630 | 28.5 | TDD | IMD24 |
|  | n41 | 2590 | 10 | 50 | 2590 | N/A | TDD | N/A |
|  | n77 | 3460 | 10 | 50 | 3460 | N/A | TDD | N/A |
|  | n18 | 825 | 5 | 25 | 870 | 29.3 | FDD | IMD21,4 |
| CA\_n24-n41-n48 | n24 | 1649 | 5 | 25 | 1528.5 | N/A | FDD | N/A |
|  | n41 | 2610 | 5 | 25 | 2610 | N/A | TDD | N/A |
|  | n48 | 3571 | 10 | 50 | 3571 | 16.8 | TDD | IMD3 |
|  | n24 | 1630 | 5 | 25 | 1528.5 | N/A | FDD | N/A |
|  | n41 | 2500 | 5 | 25 | 2500 | 5.3 | TDD | IMD5 |
|  | n48 | 3695 | 10 | 50 | 3695 | N/A | TDD | N/A |
|  | n24 | 1631.5 | 5 | 25 | 1530 | 16.4 | FDD | IMD3 |
|  | n41 | 2592.5 | 5 | 25 | 2592.5 | N/A | TDD | N/A |
|  | n48 | 3655 | 10 | 50 | 3655 | N/A | TDD | N/A |
| CA\_n24-n41-n77 | n24 | 1630 | 5 | 25 | 1528.5 | N/A | FDD | N/A |
|  | n41 | 2685 | 5 | 25 | 2685 | N/A | TDD | N/A |
|  | n77 | 3735 | 10 | 50 | 3735 | 16.8 | TDD | IMD31,6 |
|  | n24 | 1630 | 5 | 25 | 1528.5 | N/A | FDD | N/A |
|  | n41 | 2610 | 5 | 25 | 2610 | 5.3 | TDD | IMD56 |
|  | n77 | 3755 | 10 | 50 | 3755 | N/A | TDD | N/A |
|  | n24 | 1630 | 5 | 25 | 1528.5 | 16.4 | FDD | IMD32,6 |
|  | n41 | 2500 | 5 | 25 | 2500 | N/A | TDD | N/A |
|  | n77 | 3465 | 10 | 50 | 3465 | N/A | TDD | N/A |
| CA\_n25-n38-n78 | n25 | 1852.5 | 5 | 25 | 1932.5 | 16.4 | FDD | IMD3 |
|  | n38 | 2617.5 | 5 | 25 | 2617.5 | N/A | TDD | N/A |
|  | n78 | 3305 | 10 | 50 | 3305 | N/A | TDD | N/A |
|  | n25 | 1870 | 5 | 25 | 1950 | N/A | FDD | N/A |
|  | n38 | 2610 | 5 | 25 | 2610 | N/A | TDD | N/A |
|  | n78 | 3350 | 10 | 50 | 3350 | 14.8 | TDD | IMD3 |
|  | n25 | 1880 | 5 | 25 | 1960 | 8.6 | TDD | IMD4 |
|  | n38 | 2570 | 5 | 25 | 2570 | N/A | FDD | N/A |
|  | n78 | 3550 | 10 | 50 | 3550 | N/A | TDD | N/A |
| CA\_n25-n41-n66 | n25 | 1860 | 5 | 25 | 1940 | 11.0 | FDD | IMD4 |
|  | n41 | 2685 | 10 | 50 | 2685 | N/A | TDD | N/A |
|  | n66 | 1715 | 5 | 25 | 2115 | N/A | FDD | N/A |
| CA\_n25-n41-n77 | n25 | 1870 | 5 | 25 | 1950 | N/A | FDD | N/A |
|  | n41 | 2670 | 5 | 25 | 2670 | N/A | TDD | N/A |
|  | n77 | 3470 | 10 | 50 | 3470 | 14.8 | TDD | IMD3 |
|  | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n41 | 2525 | 5 | 25 | 2645 | N/A | TDD | N/A |
|  | n77 | 3775 | 10 | 50 | 3775 | 4.2 | TDD | IMD5 |
|  | n25 | 1870 | 5 | 25 | 1950 | N/A | FDD | N/A |
|  | n41 | 2640 | 5 | 25 | 2640 | 5.3 | TDD | IMD55 |
|  | n77 | 4125 | 10 | 50 | 4125 | N/A | TDD | N/A |
|  | n25 | 1870 | 5 | 25 | 1950 | 17.6 | FDD | IMD35 |
|  | n41 | 2675 | 5 | 25 | 2675 | N/A | TDD | N/A |
|  | n77 | 3400 | 10 | 50 | 3400 | N/A | TDD | N/A |
|  | n25 | 1870 | 5 | 25 | 1950 | 8.6 | FDD | IMD4 |
|  | n41 | 2550 | 5 | 25 | 2685 | N/A | TDD | N/A |
|  | n77 | 3525 | 10 | 50 | 3525 | N/A | TDD | N/A |
| CA\_n25-n41-n78 | n25 | 1870 | 5 | 25 | 1950 | N/A | FDD | N/A |
|  | n41 | 2610 | 5 | 25 | 2610 | N/A | TDD | N/A |
|  | n78 | 3350 | 10 | 50 | 3350 | 14.8 | TDD | IMD3 |
|  | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n41 | 2525 | 5 | 25 | 2645 | N/A | TDD | N/A |
|  | n78 | 3775 | 10 | 50 | 3775 | 4.2 | TDD | IMD5 |
|  | n25 | 1870 | 5 | 25 | 1950 | 17.6 | FDD | IMD3 |
|  | n41 | 2565 | 5 | 25 | 2565 | N/A | TDD | N/A |
|  | n78 | 3180 | 10 | 50 | 3310 | N/A | TDD | N/A |
|  | n25 | 1870 | 5 | 25 | 1950 | 8.6 | FDD | IMD4 |
|  | n41 | 2550 | 5 | 25 | 2685 | N/A | TDD | N/A |
|  | n78 | 3525 | 10 | 50 | 3475 | N/A | TDD | N/A |
| CA\_n25-n48-n66 | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n48 | 3540 | 10 | 50 | 3540 | N/A | TDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 10.4 | FDD | IMD4 |
|  | n25 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n48 | 3620 | 10 | 50 | 3620 | 29.4 | TDD | IMD2 |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | 32.1 | FDD | IMD21 |
|  | n48 | 3700 | 10 | 50 | 3700 | N/A | TDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
| CA\_n25-n66-n77 | n25 | 1855 | 5 | 25 | 1935 | N/A | FDD | N/A |
|  | n66 | 1715 | 5 | 25 | 2115 | 29.2 | FDD | IMD2 |
|  | n77 | 3970 | 10 | 50 | 3970 | N/A | TDD | N/A |
|  | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 10.4 | FDD | IMD4 |
|  | n77 | 3540 | 10 | 50 | 3540 | 10 | TDD | N/A |
|  | n25 | 1900 | 5 | 25 | 1980 | N/A | FDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 4.0 | FDD | IMD5 |
|  | n77 | 3930 | 10 | 50 | 3930 | N/A | TDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | 32.1 | FDD | IMD2 |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n77 | 3720 | 10 | 50 | 3720 | N/A | TDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | 9.1 | FDD | IMD45 |
|  | n66 | 1770 | 5 | 25 | 2170 | N/A | FDD | N/A |
|  | n77 | 3350 | 10 | 50 | 3350 | N/A | TDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | 2.1 | FDD | IMD55 |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n77 | 3620 | 10 | 50 | 3620 | N/A | TDD | N/A |
|  | n25 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n77 | 3620 | 10 | 50 | 3620 | 29.4 | TDD | IMD25 |
|  | n25 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n77 | 3900 | 10 | 50 | 3900 | 8.9 | TDD | IMD4 |
| CA\_n25-n66-n78 | n25 | 1880 | 5 | 25 | 1960 | N/A | FDD | N/A |
|  | n66 | 1740 | 5 | 25 | 2140 | N/A | FDD | N/A |
|  | n78 | 3620 | 10 | 50 | 3620 | 29.4 | TDD | IMD2 |
| CA\_n25-n71-n77 | n25 | 1907.5 | 5 | 25 | 1987.5 | N/A | FDD | N/A |
|  | n71 | 695.5 | 5 | 25 | 649.5 | N/A | FDD | N/A |
|  | n77 | 3305 | 10 | 50 | 3305 | 8.0 | TDD | IMD31,2,5 |
|  | n25 | 1874 | 5 | 25 | 1954 | 16.5 | FDD | IMD32,5 |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3340 | 10 | 50 | 3340 | N/A | TDD | N/A |
| CA\_n25-n71-n78 | n25 | 1907.5 | 5 | 25 | 1987.5 | N/A | FDD | N/A |
|  | n71 | 695.5 | 5 | 25 | 649.5 | N/A | FDD | N/A |
|  | n78 | 3305 | 10 | 50 | 3305 | 8.0 | TDD | IMD3 |
|  | n25 | 1874 | 5 | 25 | 1954 | 16.5 | FDD | IMD3 |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n78 | 3340 | 10 | 50 | 3340 | N/A | TDD | N/A |
| CA\_n28-n39-n41 | n28 | 707 | 5 | 25 | 762 | 29.3 | FDD | IMD2 |
|  | n39 | 1923 | 5 | 25 | 1923 | N/A | TDD | N/A |
|  | n41 | 2685 | 10 | 50 | 2685 | N/A | TDD | N/A |
| CA\_n28-n40-n41 | n28 | 710 | 5 | 25 | 765 | 7.6 | FDD | IMD4 |
|  | n40 | 2302.5 | 5 | 25 | 2302.5 | N/A | TDD | N/A |
|  | n41 | 2685 | 10 | 50 | 2685 | N/A | TDD | N/A |
| CA\_n28-n40-n78 | n28 | N/A | 5 | 25 | 800.5 | 11 | FDD | IMD3 |
|  | n40 | 2302.5 | 5 | 25 | 2302.5 | N/A | TDD | N/A |
|  | n78 | 3795 | 10 | 50 | 3795 | N/A | TDD | N/A |
|  | n28 | 708 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n78 | 3736 | 10 | 50 | 3736 | 16.0 | TDD | IMD32 |
|  | n28 | 708 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n40 | 2134 | 5 | 25 | 2134 | 15.7 | TDD | IMD3 |
|  | n78 | 3550 | 10 | 50 | 3550 | N/A | TDD | N/A |
| CA\_n28-n40-n77 | n28 | 745.5 | 5 | 25 | 800.5 | 11 | FDD | IMD31 |
|  | n40 | 2302.5 | 5 | 25 | 2302.5 | N/A | TDD | N/A |
|  | n77 | 3795 | 10 | 50 | 3795 | N/A | TDD | N/A |
|  | n28 | 708 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n40 | 2310 | 5 | 25 | 2310 | N/A | TDD | N/A |
|  | n77 | 3736 | 10 | 50 | 3736 | 16.0 | TDD | IMD32 |
|  | n28 | 708 | 5 | 25 | 763 | N/A | FDD | N/A |
|  | n40 | 2134 | 5 | 25 | 2134 | 15.7 | TDD | IMD3 |
|  | n77 | 3550 | 10 | 50 | 3550 | N/A | TDD | N/A |
| CA\_n28-n40-n79 | n28 | 730 | 5 | 25 | 785 | N/A | FDD | N/A |
|  | n40 | 2350 | 5 | 50 | 2350 | N/A | TDD | N/A |
|  | n79 | 4540 | 40 | 216 | 4540 | 10.7 | TDD | IMD4 |
|  | n28 | 720 | 5 | 25 | 775 | N/A | FDD | N/A |
|  | n40 | 2340 | 5 | 50 | 2340 | 9.2 | TDD | IMD4 |
|  | n79 | 4500 | 40 | 216 | 4500 | N/A | TDD | N/A |
| CA\_n28-n41-n77 | n41 | 2642 | 5 | 25 | 2642 | N/A | TDD | N/A |
|  | n77 | 3440 | 10 | 50 | 3440 | N/A | TDD | N/A |
|  | n28 | 743 | 5 | 25 | 798 | 30.8 | FDD | IMD24 |
|  | n41 | 2567.5 | 10 | 50 | 2567.5 | N/A | TDD | N/A |
|  | n77 | 3460 | 10 | 50 | 3460 | N/A | TDD | N/A |
|  | n28 | 727.5 | 5 | 25 | 782.5 | 3.0 | FDD | IMD5 |
|  | n28 | 738 | 5 | 25 | 793 | N/A | FDD | N/A |
|  | n77 | 3380 | 10 | 50 | 3380 | N/A | TDD | N/A |
|  | n41 | 2642 | 5 | 25 | 2642 | 29.5 | TDD | IMD2 |
|  | n41 | 2580 | 5 | 25 | 2580 | N/A | TDD | N/A |
|  | n28 | 743 | 5 | 25 | 798 | N/A | FDD | N/A |
|  | n77 | 3323 | 10 | 50 | 3323 | 28.2 | TDD | IMD24 |
| CA\_n28-n41-n78 | n28 | 738 | 5 | 25 | 793 | N/A | FDD | N/A |
|  | n78 | 3380 | 10 | 50 | 3380 | N/A | TDD | N/A |
|  | n41 | 2642 | 5 | 25 | 2642 | 29.5 | TDD | IMD2 |
|  | n41 | 2642 | 5 | 25 | 2642 | N/A | TDD | N/A |
|  | n78 | 3440 | 10 | 50 | 3440 | N/A | TDD | N/A |
|  | n28 | 743 | 5 | 25 | 798 | 30.8 | FDD | IMD21 |
|  | n41 | 2565 | 5 | 25 | 2565 | N/A | TDD | N/A |
|  | n28 | 745 | 5 | 25 | 800 | N/A | FDD | N/A |
|  | n78 | 3310 | 10 | 50 | 3310 | 29.7 | TDD | IMD22 |
| CA\_n28-n41-n79 | n28 | 725 | 5 | 25 | 780 | 13.0 | FDD | IMD31 |
|  | n41 | 2600 | 10 | 50 | 2600 | N/A | TDD | N/A |
|  | n79 | 4600 | 40 | 216 | 4600 | N/A | TDD | N/A |
|  | n28 | 720 | 5 | 25 | 780 | N/A | FDD | N/A |
|  | n41 | 2600 | 10 | 50 | 2600 | N/A | TDD | N/A |
|  | n79 | 4480 | 40 | 216 | 4600 | 10.1 | TDD | IMD32 |
|  | n28 | 735 | 5 | 25 | 790 | N/A | FDD | N/A |
|  | n41 | 2645 | 10 | 50 | 2645 | 10.4 | TDD | IMD4 |
|  | n79 | 4850 | 40 | 216 | 4850 | N/A | TDD | N/A |
| CA\_n28-n46-n78 | n28 | 710 | 5 | 25 | 765 | N/A | FDD | N/A |
|  | n46 | 5170 | 20 | 100 | 5170 | N/A | FDD | N/A |
|  | n78 | 3750 | 10 | 50 | 3750 | 17 | TDD | IMD31 |
|  | n28 | 725 | 5 | 25 | 780 | 16 | FDD | IMD3 |
|  | n46 | 5900 | 20 | 100 | 5900 | N/A | FDD | N/A |
|  | n78 | 3340 | 10 | 50 | 3340 | N/A | TDD | N/A |
|  | n28 | 740 | 5 | 25 | 795 | N/A | FDD | N/A |
|  | n46 | 5900 | 20 | 100 | 5900 | 22 | TDD | IMD31,2 |
|  | n78 | 3320 | 10 | 50 | 3320 | N/A | TDD | N/A |
| CA\_n28-n77-n79 | n77 | 3620 | 10 | 52 | 3620 | N/A | N/A | n77 |
|  | n79 | 4420 | 40 | 216 | 4420 | N/A | N/A | n79 |
|  | n28 | 745 | 5 | 25 | 800 | 16.2 | IMD21,2 | n28 |
| CA\_n28-n78-n79 | n28 | 740 | 5 | 25 | 795 | N/A | FDD | N/A |
|  | n78 | 3700 | 10 | 50 | 3700 | N/A | TDD | N/A |
|  | n79 | 4440 | 40 | 216 | 4440 | 26.2 | TDD | IMD21,3,4 |
|  | n28 | 740 | 5 | 25 | 795 | N/A | FDD | N/A |
|  | n78 | 3700 | 10 | 50 | 3700 | 26.9 | TDD | IMD23,4 |
|  | n79 | 4440 | 40 | 216 | 4440 | N/A | TDD | N/A |
|  | n28 | 745 | 5 | 25 | 800 | 16.2 | FDD | IMD21 |
|  | n78 | 3620 | 10 | 50 | 3620 | N/A | TDD | N/A |
|  | n79 | 4420 | 40 | 216 | 4420 | N/A | TDD | N/A |
| CA\_n29-n30-n66 | n29 | N/A | 5 | N/A | 719.5 | 4.5 | SDL | IMD5 |
|  | n30 | 2307.5 | 5 | 25 | 2352.5 | N/A | FDD | N/A |
|  | n66 | 1777.5 | 5 | 25 | 2177.5 | N/A | FDD | N/A |
| CA\_n29-n30-n77 | n29 | N/A | 5 | N/A | 722 | 15.2 | SDL | IMD31 |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n77 | 3898 | 10 | 50 | 3898 | N/A | TDD | N/A |
| CA\_n29-n66-n77 | n29 | N/A | 5 | N/A | 722 | 15.2 | SDL | IMD37 |
|  | n66 | 1734 | 5 | 25 | 2134 | N/A | FDD | N/A |
|  | n77 | 4190 | 10 | 50 | 4190 | N/A | TDD | N/A |
| CA\_n30-n66-n77 | n30 | 2310 | 5 | 25 | 2355 | 29.2 | FDD | IMD25 |
|  | n66 | 1745 | 5 | 25 | 2145 | N/A | FDD | N/A |
|  | n77 | 4100 | 10 | 50 | 4100 | N/A | TDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | 3.4 | FDD | IMD5 |
|  | n66 | 1735 | 5 | 25 | 2135 | N/A | FDD | N/A |
|  | n77 | 3780 | 10 | 50 | 3780 | N/A | TDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 8.7 | FDD | IMD45 |
|  | n77 | 3390 | 10 | 50 | 3390 | N/A | TDD | N/A |
|  | n30 | 2310 | 5 | 25 | 2355 | N/A | FDD | N/A |
|  | n66 | 1745 | 5 | 25 | 2145 | N/A | FDD | N/A |
|  | n77 | 4055 | 10 | 50 | 4055 | 28.4 | TDD | IMD21,5 |
| CA\_n38-n66-n78 | n38 | 2550 | 5 | 25 | 2550 | N/A | TDD | N/A |
|  | n66 | 1750 | 5 | 25 | 2150 | 8.7 | FDD | IMD4 |
|  | n78 | 3625 | 10 | 50 | 3625 | N/A | TDD | N/A |
|  | n38 | 2610 | 5 | 25 | 2610 | N/A | TDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n78 | 3460 | 10 | 50 | 3460 | 15.0 | TDD | IMD3 |
| CA\_n39-n40-n79 | n39 | 1917.5 | 5 | 25 | 1917.5 | N/A | TDD | N/A |
|  | n40 | 2302.5 | 5 | 25 | 2302.5 | N/A | TDD | N/A |
|  | n79 | 4980 | 40 | 216 | 4980 | 5.8 | TDD | IMD4 |
| CA\_n39-n41-n79 | n39 | N/A | N/A | N/A | N/A | N/A | TDD | N/A |
|  | n41 | N/A | N/A | N/A | N/A | N/A | TDD | N/A |
|  | n79 | N/A | N/A | N/A | N/A | N/A | TDD | IMD29 |
| CA\_n40-n41-n79 | n40 | 2340 | 5 | 25 | 2340 | N/A | TDD | N/A |
|  | n41 | 2600 | 10 | 50 | 2600 | N/A | TDD | N/A |
|  | n79 | 4940 | 40 | 216 | 4940 | 30.5 | TDD | IMD2 |
| CA\_n41-n66-n77 | n41 | 2600 | 5 | 25 | 2600 | N/A | TDD | N/A |
|  | n66 | 1730 | 5 | 25 | 2130 | N/A | FDD | N/A |
|  | n77 | 3470 | 10 | 50 | 3470 | 16.1 | TDD | IMD31,2 |
|  | n41 | 2670 | 5 | 25 | 2670 | 5.2 | TDD | IMD55 |
|  | n66 | 1715 | 5 | 25 | 2115 | N/A | FDD | N/A |
|  | n77 | 4190 | 10 | 50 | 4190 | N/A | TDD | N/A |
|  | n41 | 2640 | 5 | 25 | 2640 | N/A | TDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 9.0 | FDD | IMD4 |
|  | n77 | 3720 | 10 | 50 | 3720 | N/A | TDD | N/A |
| CA\_n41-n66-n78 | n41 | 2560 | 5 | 25 | 2560 | N/A | TDD | N/A |
|  | n66 | 1730 | 5 | 25 | 2130 | N/A | FDD | N/A |
|  | n77 | 3390 | 10 | 50 | 3390 | 16.1 | TDD | IMD31 |
|  | n41 | 2530 | 5 | 25 | 2530 | N/A | TDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 9.0 | FDD | IMD4 |
|  | n77 | 3610 | 10 | 50 | 3610 | N/A | TDD | N/A |
| CA\_n41-n70-n78 | n41 | 2655 | 10 | 50 | 2655 | N/A | TDD | N/A |
|  | n70 | 1700 | 5 | 25 | 2000 | 17.6 | FDD | IMD3 |
|  | n78 | 3310 | 10 | 50 | 3310 | N/A | TDD | N/A |
|  | n41 | 2565 | 10 | 50 | 2565 | N/A | TDD | N/A |
|  | n70 | 1700 | 5 | 25 | 2000 | 8.6 | FDD | IMD4 |
|  | n78 | 3565 | 10 | 50 | 3565 | N/A | TDD | N/A |
|  | n41 | 2480 | 10 | 50 | 2480 | 5.3 | TDD | IMD5 |
|  | n70 | 1700 | 5 | 25 | 2000 | N/A | FDD | N/A |
|  | n78 | 3790 | 10 | 50 | 3790 | N/A | TDD | N/A |
|  | n41 | 2545 | 10 | 50 | 2545 | N/A | FDD | N/A |
|  | n70 | 1700 | 5 | 25 | 2000 | N/A | FDD | N/A |
|  | n78 | 3390 | 10 | 50 | 3390 | 16.1 | TDD | IMD3 |
| CA\_n41-n71-n77 | n41 | 2615 | 5 | 25 | 2615 | N/A | TDD | N/A |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3308 | 10 | 50 | 3308 | 29.1 | TDD | IMD21,5 |
|  | n41 | 2564 | 5 | 25 | 2564 | N/A | TDD | N/A |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3950 | 10 | 50 | 3950 | 16.3 | TDD | IMD31 |
|  | n41 | 2580 | 5 | 25 | 2580 | N/A | TDD | N/A |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3774 | 10 | 50 | 3774 | 10.3 | TDD | IMD41 |
|  | n41 | 2615 | 5 | 25 | 2615 | 28.7 | TDD | IMD25 |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3308 | 10 | 50 | 3308 | N/A | TDD | N/A |
|  | n41 | 2564 | 5 | 25 | 2564 | 15.5 | TDD | IMD3 |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3950 | 10 | 50 | 3950 | N/A | TDD | N/A |
|  | 41 | 2680 | 5 | 25 | 2680 | N/A | TDD | N/A |
|  | n71 | 686 | 5 | 25 | 640 | 30.8 | FDD | IMD25 |
|  | n77 | 3320 | 10 | 50 | 3320 | N/A | TDD | N/A |
| CA\_n41-n71-n78 | n41 | 2615 | 5 | 25 | 2615 | N/A | TDD | N/A |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n78 | 3308 | 10 | 50 | 3308 | 29.1 | TDD | IMD21 |
|  | n41 | 2580 | 5 | 25 | 2580 | N/A | TDD | N/A |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3774 | 10 | 50 | 3774 | 10.3 | TDD | IMD41 |
|  | n41 | 2615 | 5 | 25 | 2615 | 28.7 | TDD | IMD2 |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n77 | 3308 | 10 | 50 | 3308 | N/A | TDD | N/A |
|  | 41 | 2642 | 5 | 25 | 2642 | N/A | TDD | N/A |
|  | n71 | 743 | 5 | 25 | 798 | 30.8 | FDD | IMD2 |
|  | n77 | 3440 | 10 | 50 | 3440 | N/A | TDD | N/A |
| CA\_n41-n77-n79 | n77 | 3600 | 10 | 50 | 3600 | N/A | TDD | N/A |
|  | n79 | 4600 | 40 | 216 | 4600 | N/A | TDD | N/A |
|  | n41 | 2600 | 10 | 50 | 2600 | 10.7 | TDD | IMD31,2 |
| CA\_n48-n66-n70 | n48 | 3625 | 10 | 50 | 3625 | N/À | TDD | N/A |
|  | n66 | 1742.5 | 5 | 25 | 2142.5 | 2.8 | FDD | IMD5 |
|  | n70 | 1702.5 | 5 | 25 | 2002.5 | N/A | FDD | N/A |
| CA\_n48-n66-n71 | n48 | 3552.5 | 10 | 50 | 3552.5 | N/A | TDD | N/A |
|  | n66 | 1761.5 | 5 | 25 | 2161.5 | 14.4 | FDD | IMD3 |
|  | n71 | 695.5 | 5 | 25 | 649.5 | N/A | FDD | N/A |
|  | n48 | 3695 | 10 | 50 | 3695 | 5.2 | TDD | IMD4 |
|  | n66 | 1712.5 | 5 | 25 | 2112.5 | N/A | FDD | N/A |
|  | n71 | 665.5 | 5 | 25 | 619.5 | N/A | FDD | N/A |
| CA\_n48-n70-n71 | n48 | 3694 | 10 | 50 | 3694 | 9 | TDD | IMD41 |
|  | n70 | 1697.5 | 5 | 25 | 1997.5 | N/A | FDD | N/A |
|  | n71 | 665.5 | 5 | 25 | 619.5 | N/A | FDD | N/A |
| CA\_n48-n71-n775 | n48 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n71 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n77 | N/A | N/A | N/A | N/A | N/A | FDD | IMD2 |
|  | n48 | N/A | N/A | N/A | N/A | N/A | FDD | IMD2 |
|  | n71 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n77 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
| CA\_n66-n70-n77 | n66 | 1757.5 | 5 | 25 | 2157.5 | N/A | FDD | N/A |
|  | n70 | 1707.5 | 5 | 25 | 2007.5 | 32.1 | FDD | IMD22,1 |
|  | n77 | 3765 | 10 | 50 | 3765 | N/A | TDD | N/A |
|  | n66 | 1762.5 | 5 | 25 | 2162.5 | 29.2 | FDD | IMD21 |
|  | n70 | 1702.5 | 5 | 25 | 2002.5 | N/A | FDD | N/A |
|  | n77 | 3865 | 10 | 50 | 3865 | N/A | TDD | N/A |
| CA\_n66-n70-n78 | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n70 | 1700 | 5 | 25 | 2000 | 32.1 | FDD | IMD2 |
|  | n78 | 3760 | 10 | 50 | 3760 | N/A | TDD | N/A |
|  | n66 | 1770 | 5 | 25 | 2170 | N/A | FDD | N/A |
|  | n70 | 1700 | 5 | 25 | 2000 | 9.1 | FDD | IMD4 |
|  | n78 | 3310 | 10 | 50 | 3310 | N/A | TDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | N/A | FDD | N/A |
|  | n70 | 1700 | 5 | 25 | 2000 | 2.1 | FDD | IMD5 |
|  | n78 | 3640 | 10 | 50 | 3640 | N/A | TDD | N/A |
|  | n66 | 1760 | 5 | 25 | 2160 | 5.0 | FDD | IMD5 |
|  | n70 | 1700 | 5 | 25 | 2000 | N/A | FDD | N/A |
|  | n78 | 3630 | 10 | 50 | 3630 | N/A | TDD | N/A |
| CA\_n66-n71-n77 | n66 | 1720 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n71 | 668 | 5 | 25 | 622 | N/A | FDD | N/A |
|  | n77 | 4108 | 10 | 50 | 4108 | 15.9 | TDD | IMD31,2,5 |
|  | n66 | 1750 | 5 | 25 | 2150 | 15.5 | FDD | IMD32 |
|  | n71 | 690 | 5 | 25 | 644 | N/A | FDD | N/A |
|  | n77 | 3530 | 10 | 50 | 3530 | N/A | TDD | N/A |
|  | n66 | 1720 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n71 | 686 | 5 | 25 | 640 | 15.3 | FDD | IMD35 |
|  | n77 | 4080 | 10 | 50 | 4080 | N/A | TDD | N/A |
| CA\_n66-n71-n78 | n66 | 1720 | 5 | 25 | 2120 | N/A | FDD | N/A |
|  | n71 | 668 | 5 | 25 | 622 | N/A | FDD | N/A |
|  | n78 | 3724 | 10 | 50 | 3724 | 9 | TDD | IMD41 |
|  | n66 | 1760 | 5 | 25 | 2160 | 15.5 | FDD | IMD3 |
|  | n71 | 693 | 5 | 25 | 647 | N/A | FDD | N/A |
|  | n78 | 3546 | 10 | 50 | 3546 | N/A | TDD | N/A |
| CA\_n70-n71-n775 | n70 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n71 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n77 | N/A | N/A | N/A | N/A | N/A | TDD | IMD35 |
|  | n70 | 1702.5 | 5 | 25 | 2002.5 | N/A | FDD | N/A |
|  | n71 | 680.5 | 5 | 25 | 834.5 | N/A | FDD | N/A |
|  | n77 | 3745 | 10 | 50 | 3745 | 8.2 | TDD | IMD4 |
|  | n70 | 1702.5 | 5 | 25 | 2002.5 | N/A | FDD | N/A |
|  | n71 | 680.5 | 5 | 25 | 834.5 | N/A | FDD | N/A |
|  | n77 | 3745 | 10 | 50 | 3745 | 3.3 | TDD | IMD5 |
|  | n70 | N/A | N/A | N/A | N/A | N/A | FDD | IMD35 |
|  | n71 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n77 | N/A | N/A | N/A | N/A | N/A | TDD | N/A |
|  | n70 | N/A | N/A | N/A | N/A | N/A | FDD | IMD45 |
|  | n71 | N/A | N/A | N/A | N/A | N/A | FDD | N/A |
|  | n77 | N/A | N/A | N/A | N/A | N/A | TDD | N/A |
| NOTE 1: This band is subject to IMD5 also which MSD is not specified.  NOTE 2: This band is subject to IMD4 also which MSD is not specified.  NOTE 3: The requirements only apply for UEs supporting inter-band carrier aggregation with simultaneous Rx/Tx capability. Simultaneous Rx/Tx capability does not apply for UEs supporting band n78 with a n77 implementation.  NOTE 4: This band is subject to IMD3 also which MSD is not specified.  NOTE 5: For a UE which supports this band combination only when the Band n77 frequency range restriction defined in NOTE 12 of Table 5.2-1 applies, the MSD test point(s) cannot be verified for the band combination and the test point(s) can be skipped.  NOTE 6: This band is subjected to 2nd order IMD but is not expected for the operating frequency range of n77 within USA (3450 – 3550 MHz, 3700 – 3980 MHz).  NOTE 7: The MSD test points cannot be verified for the band combination in US due to the Band n77 frequency range restriction.  NOTE 8: Both of the transmitters shall be set min(+20 dBm, PCMAX\_L,f,c) as defined in clause 6.2A.4  NOTE 9: There is no IMD2 product in band n79 downlink for n79 operating in 4800 – 5000 MHz frequency range.  NOTE 10: This band supports intra-band non-contiguous uplink configuration. | | | | | | | | |

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### *<< End of changes >>*