**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:*** | ZTE Corporation | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CADC\_R18\_3BDL\_xBUL-Core | | | | |  | ***Date:*** | | | 2023-03-04 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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, Support of DL n77(3A) in 3BDL CA\_n1/n3/n28/n41-n77-n79, SoftBank Corp. 2. R4-2300416, Draft CR for TS 38.101-1 Support of CA\_n25-n41-n71 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.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  CA\_n7B | 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-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  CA\_n7B | 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  CA\_n7B | 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-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\_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 |  |
|  | |  | 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\_n7B  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\_n7B  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-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.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 >>*