

Appendix G: LTE Down-Link Carrier Aggregation

The tables below show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

Power measurements were performed on the channel with the highest maximum output power from Tune-up Procedure on ANT1/7 antenna.

When carrier aggregation is limited to downlink only, uplink maximum output power (single carrier) is measured for the supported combinations of downlink carrier aggregation listed in the table below. In applying the power measurement procedures of KDB 941225 D05A and April 2018 TCB workshop for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs (far right most configuration highlighted in the table below).

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
2CC # 1	CA_2A-2A		3CC #1	3CC # 1	CA_2A-2A-4A		4CC #1	4CC # 1	CA_2A-2A-4A-4A		No
2CC # 2	CA_2A-4A		3CC #12	3CC # 2	CA_2A-2A-5A		4CC #5	4CC # 2	CA_2A-2A-4A-5A		No
2CC # 3	CA_2A-5A		3CC #20	3CC # 3	CA_2A-2A-7A		4CC #7	4CC # 3	CA_2A-2A-4A-12A		No
2CC # 4	CA_2A-7A		3CC #25	3CC # 4	CA_2A-2A-12A		4CC #8	4CC # 4	CA_2A-2A-5A-30A		No
2CC # 5	CA_2A-12A		3CC #30	3CC # 5	CA_2A-2A-13A		4CC #11	4CC # 5	CA_2A-2A-5A-66A		No
2CC # 6	CA_2A-13A		3CC #33	3CC # 6	CA_2A-2A-14A		4CC #12	4CC # 6	CA_2A-2A-7A-12A		No
2CC # 7	CA_2A-14A		3CC #36	3CC # 7	CA_2A-2A-29A	B29 SCC only	4CC #14	4CC # 7	CA_2A-2A-7A-66A		No
2CC # 8	CA_2A-17A		No	3CC # 8	CA_2A-2A-30A		4CC #15	4CC # 8	CA_2A-2A-12A-30A		No
2CC # 9	CA_2A-29A	B29 SCC only	3CC #39	3CC # 9	CA_2A-2A-46A	B46 SCC only	No	4CC # 9	CA_2A-2A-12A-66A		No
2CC # 10	CA_2A-30A		3CC #40	3CC # 10	CA_2A-2A-66A		4CC #17	4CC # 10	CA_2A-2A-12B		No
2CC # 11	CA_2A-46A	B46 SCC only	3CC #41	3CC # 11	CA_2A-2A-71A		4CC #18	4CC # 11	CA_2A-2A-13A-66A		No
2CC # 12	CA_2A-48A		3CC #45	3CC # 12	CA_2A-4A-4A		4CC #21	4CC # 12	CA_2A-2A-14A-30A		No
2CC # 13	CA_2A-66A		3CC #48	3CC # 13	CA_2A-4A-5A		4CC #21	4CC # 13	CA_2A-2A-14A-66A		No
2CC # 14	CA_2A-71A		3CC #49	3CC # 14	CA_2A-4A-7A		4CC #24	4CC # 14	CA_2A-2A-29A-30A	B29 SCC only	No
2CC # 15	CA_2C		3CC #52	3CC # 15	CA_2A-4A-12A		4CC #22	4CC # 15	CA_2A-2A-30A-66A		No
2CC # 16	CA_4A-4A		3CC #57	3CC # 16	CA_2A-4A-13A		No	4CC # 16	CA_2A-2A-46C	B46 SCC only	No
2CC # 17	CA_4A-5A		3CC #64	3CC # 17	CA_2A-4A-29A	B29 SCC only	No	4CC # 17	CA_2A-2A-66A-66A		No
2CC # 18	CA_4A-7A		3CC #66	3CC # 18	CA_2A-4A-30A		No	4CC # 18	CA_2A-2A-66A-71A		No
2CC # 19	CA_4A-12A		3CC #69	3CC # 19	CA_2A-4A-71A		No	4CC # 19	CA_2A-2A-66B		No
2CC # 20	CA_4A-13A		3CC #60	3CC # 20	CA_2A-5A-7A		4CC #27	4CC # 20	CA_2A-2A-66C		No
2CC # 21	CA_4A-17A		No	3CC # 21	CA_2A-5A-30A		No	4CC # 21	CA_2A-4A-4A-5A		No
2CC # 22	CA_4A-29A	B29 SCC only	3CC #61	3CC # 22	CA_2A-5A-46A	B46 SCC only	No	4CC # 22	CA_2A-4A-4A-12A		No
2CC # 23	CA_4A-30A		3CC #64	3CC # 23	CA_2A-5A-66A		4CC #30	4CC # 23	CA_2A-4A-5B		No
2CC # 24	CA_4A-46A	B46 SCC only	3CC #72	3CC # 24	CA_2A-5B		4CC #33	3CC # 24	CA_2A-4A-7A-7A		No
2CC # 25	CA_4A-71A		3CC #63	3CC # 25	CA_2A-7A-7A		4CC #35	4CC # 25	CA_2A-4A-7C		No
2CC # 26	CA_5A-5A		3CC #74	3CC # 26	CA_2A-7A-12A		4CC #6	4CC # 26	CA_2A-4A-12B		No
2CC # 27	CA_5A-7A		3CC #75	3CC # 27	CA_2A-7A-13A		4CC #35	4CC # 27	CA_2A-5A-7A-7A		No
2CC # 28	CA_5A-25A		No	3CC # 28	CA_2A-7A-66A		4CC #37	4CC # 28	CA_2A-5A-7C		No
2CC # 29	CA_5A-30A		3CC #78	3CC # 29	CA_2A-7C		4CC #38	4CC # 29	CA_2A-5A-46C	B46 SCC only	No
				3CC # 30	CA_2A-12A-30A		4CC #8	4CC # 30	CA_2A-5A-66A-66A		No
2CC # 31	CA_5A-41A		No	3CC # 31	CA_2A-12A-66A		4CC #40	4CC # 31	CA_2A-5A-66B		No
2CC # 32	CA_5A-46A	B46 SCC only	3CC #79	3CC # 32	CA_2A-12B		4CC #10	4CC # 32	CA_2A-5A-66C		No
2CC # 33	CA_5A-48A		3CC #81	3CC # 33	CA_2A-13A-46A	B46 SCC only	No	4CC # 33	CA_2A-5B-30A		No
2CC # 34	CA_5A-66A		3CC #83	3CC # 34	CA_2A-13A-48A		No	4CC # 34	CA_2A-5B-66A		No
2CC # 35	CA_5B		3CC #86	3CC # 35	CA_2A-13A-66A		4CC #43	4CC # 35	CA_2A-7A-7A-13A		No
2CC # 36	CA_7A-7A		3CC #90	3CC # 36	CA_2A-14A-30A		No	4CC # 36	CA_2A-7A-7A-66A		No
2CC # 37	CA_7A-12A		3CC #94	3CC # 37	CA_2A-14A-66A		4CC #46	4CC # 37	CA_2A-7A-66A-66A		No
2CC # 38	CA_7A-13A		3CC #89	3CC # 38	CA_2A-29A-30A	B29 SCC only	No	4CC # 38	CA_2A-7C-13A		No
2CC # 39	CA_7A-26A		3CC #90	3CC # 39	CA_2A-29A-66A	B29 SCC only	No	4CC # 39	CA_2A-7C-66A		No
2CC # 40	CA_7A-29A	B29 SCC only	No	3CC # 40	CA_2A-30A-66A		4CC #47	4CC # 40	CA_2A-12A-66A-66A		No
2CC # 41	CA_7A-46A	B46 SCC only	No	3CC # 41	CA_2A-46A-46A	B46 SCC only	No	4CC # 41	CA_2A-12A-66C		No
2CC # 42	CA_7A-66A		3CC #96	3CC # 42	CA_2A-46A-48A	B46 SCC only	No	4CC # 42	CA_2A-13A-46C	B46 SCC only	No
2CC # 43	CA_7B		No	3CC # 43	CA_2A-46A-66A	B46 SCC only	No	4CC # 43	CA_2A-13A-66A-66A		No
2CC # 44	CA_7C		3CC #97	3CC # 44	CA_2A-46C	B46 SCC only	4CC #49	4CC # 44	CA_2A-13A-66B		No
2CC # 45	CA_12A-25A		No	3CC # 45	CA_2A-48A-48A		No	4CC # 45	CA_2A-13A-66C		No
2CC # 46	CA_12A-30A		3CC #100	3CC # 46	CA_2A-48A-66A		4CC #53	4CC # 46	CA_2A-14A-66A-66A		No
2CC # 47	CA_12A-46A	B46 SCC only	No	3CC # 47	CA_2A-48C		4CC #54	4CC # 47	CA_2A-30A-66A-66A		No
2CC # 48	CA_12A-48A		No	3CC # 48	CA_2A-66A-66A		4CC #57	4CC # 48	CA_2A-46A-46C	B46 SCC only	No
2CC # 49	CA_12A-66A		3CC #102	3CC # 49	CA_2A-66A-71A		4CC #57	4CC # 49	CA_2A-46A-48C	B46 SCC only	No

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
2CC # 50	CA_12B		No	3CC # 50	CA_2A-66B		4CC #58	4CC # 50	CA_2A-46C-48A	B46 SCC only	No
2CC # 51	CA_13A-46A	B46 SCC only	3CC #104	3CC # 51	CA_2A-66C		4CC #60	4CC # 51	CA_2A-46C-66A	B46 SCC only	No
2CC # 52	CA_13A-48A		3CC #107	3CC # 52	CA_2C-5A		No	4CC # 52	CA_2A-46D	B46 SCC only	No
2CC # 53	CA_13A-66A		3CC #109	3CC # 53	CA_2C-12A		No	4CC # 53	CA_2A-48A-66A-66A		No
2CC # 54	CA_14A-30A		3CC #112	3CC # 54	CA_2C-29A	B29 SCC only	No	4CC # 54	CA_2A-48C-66A		No
2CC # 55	CA_14A-66A		3CC #113	3CC # 55	CA_2C-30A		No	4CC # 55	CA_2A-48D		No
2CC # 56	CA_25A-25A		3CC #114	3CC # 56	CA_2C-66A		No	4CC # 56	CA_2A-66A-66A-66A		No
2CC # 57	CA_25A-26A		3CC #114	3CC # 57	CA_4A-4A-5A		4CC #62	4CC # 57	CA_2A-66A-66A-71A		No
2CC # 58	CA_25A-41A		No	3CC # 58	CA_4A-4A-7A		No	4CC # 58	CA_2A-66A-66B		No
2CC # 59	CA_25A-46A	B46 SCC only	No	3CC # 59	CA_4A-4A-12A		4CC #64	4CC # 59	CA_2A-66A-66C		No
2CC # 60	CA_26A-41A		No	3CC # 60	CA_4A-4A-13A		No	4CC # 60	CA_2A-66C-71A		No
2CC # 61	CA_29A-30A	B29 SCC only	3CC #119	3CC # 61	CA_4A-4A-29A	B29 SCC only	No	4CC # 61	CA_2C-66A-66A		No
2CC # 62	CA_29A-66A	B29 SCC only	3CC #120	3CC # 62	CA_4A-4A-30A		4CC #64	4CC # 62	CA_4A-4A-5A-30A		No
2CC # 63	CA_30A-66A		3CC #121	3CC # 63	CA_4A-4A-71A		No	4CC # 63	CA_4A-4A-5B		No
				3CC # 64	CA_4A-5A-30A		4CC #62	4CC # 64	CA_4A-4A-12A-30A		No
2CC # 65	CA_41A-41A		No	3CC # 65	CA_4A-5B		4CC #63	4CC # 65	CA_4A-4A-12B		No
2CC # 66	CA_41C		3CC #124	3CC # 66	CA_4A-7A-7A		No	4CC # 66	CA_4A-46A-46C	B46 SCC only	No
2CC # 67	CA_46A-66A	B46 SCC only	3CC #128	3CC # 67	CA_4A-7A-12A		No	4CC # 67	CA_4A-46D	B46 SCC only	No
2CC # 68	CA_48A-48A		3CC #130	3CC # 68	CA_4A-7C		No	4CC # 68	CA_5A-5A-66A-66A		No
2CC # 69	CA_48A-66A		3CC #132	3CC # 69	CA_4A-12A-30A		4CC #64	4CC # 69	CA_5A-7A-66A-66A		No
2CC # 70	CA_48C		3CC #133	3CC # 70	CA_4A-12B		4CC #65	4CC # 70	CA_5A-7C-66A		No
2CC # 71	CA_66A-66A		3CC #135	3CC # 71	CA_4A-29A-30A	B29 SCC only	No	4CC # 71	CA_5A-30A-66A-66A		No
2CC # 72	CA_66A-71A		3CC #136	3CC # 72	CA_4A-46A-46A	B46 SCC only	No	4CC # 72	CA_5A-46C-66A	B46 SCC only	No
2CC # 73	CA_66B		No	3CC # 73	CA_4A-46C	B46 SCC only	4CC #66	4CC # 73	CA_5A-46D	B46 SCC only	No
2CC # 74	CA_66C		3CC #139	3CC # 74	CA_5A-5A-66A		4CC #68	4CC # 74	CA_5A-48A-66A-66A		No
				3CC # 75	CA_5A-7A-7A		No	4CC # 75	CA_5A-48C-66A		No
				3CC # 76	CA_5A-7A-66A		4CC #69	4CC # 76	CA_5A-66A-66B		No
				3CC # 77	CA_5A-7C		4CC #70	4CC # 77	CA_5A-66A-66C		No
				3CC # 78	CA_5A-30A-66A		4CC #71	4CC # 78	CA_5B-30A-66A		No
				3CC # 79	CA_5A-46A-66A	B46 SCC only	No	4CC # 79	CA_5B-66A-66A		No
				3CC # 80	CA_5A-46C	B46 SCC only	4CC #72	4CC # 80	CA_5B-66B		No
				3CC # 81	CA_5A-48A-66A		4CC #74	4CC # 81	CA_5B-66C		No
				3CC # 82	CA_5A-48C		4CC #75	4CC # 82	CA_7A-7A-66A-66A		No
				3CC # 83	CA_5A-66A-66A		4CC #68	4CC # 83	CA_7A-46D	B46 SCC only	No
				3CC # 84	CA_5A-66B		4CC #76	4CC # 84	CA_7C-46C	B46 SCC only	No
				3CC # 85	CA_5A-66C		4CC #77	4CC # 85	CA_7C-66A-66A		No
				3CC # 86	CA_5B-30A		4CC #78	4CC # 86	CA_12A-30A-66A-66A		No
				3CC # 87	CA_5B-66A		4CC #79	4CC # 87	CA_13A-46C-66A	B46 SCC only	No
				3CC # 88	CA_7A-7A-13A		No	4CC # 88	CA_13A-46D	B46 SCC only	No
				3CC # 89	CA_7A-7A-26A		No	4CC # 89	CA_13A-48C-66A		No
				3CC # 90	CA_7A-7A-66A		4CC #82	4CC # 90	CA_13A-48D		No
				3CC # 91	CA_7A-12A-66A		No	4CC # 91	CA_13A-66A-66B		No
				3CC # 92	CA_7A-46C	B46 SCC only	No	4CC # 92	CA_13A-66A-66C		No
				3CC # 93	CA_7A-66A-66A		No	4CC # 93	CA_14A-30A-66A-66A		No
				3CC # 94	CA_7C-13A		No	4CC # 94	CA_25A-25A-41C		No
				3CC # 95	CA_7C-46A	B46 SCC only	No	4CC # 95	CA_25A-41D		No
				3CC # 96	CA_7C-66A		4CC #85	4CC # 96	CA_25A-46D	B46 SCC only	No
				3CC # 97	CA_12A-30A-66A		4CC #86	4CC # 97	CA_29A-30A-66A-66A	B29 SCC only	No
				3CC # 98	CA_12A-48C		No	4CC # 98	CA_41A-41D		No
				3CC # 99	CA_12A-66A-66A		4CC #86	4CC # 99	CA_41C-41C		No

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
				3CC # 100	CA_12A-66C		No	4CC # 100	CA_41E		No
				3CC # 101	CA_13A-46A-46A	B46 SCC only	No	4CC # 101	CA_46A-46C-66A	B46 SCC only	No
				3CC # 102	CA_13A-46A-66A	B46 SCC only	No	4CC # 102	CA_46A-48C-66A	B46 SCC only	No
				3CC # 103	CA_13A-46C	B46 SCC only	4CC #87	4CC # 103	CA_46C-48A-66A	B46 SCC only	No
				3CC # 104	CA_13A-48A-66A		No	4CC # 104	CA_46C-66A-66A	B46 SCC only	No
				3CC # 105	CA_13A-48C		4CC #89	4CC # 105	CA_46D-66A	B46 SCC only	No
				3CC # 106	CA_13A-66A-66A		No	4CC # 106	CA_48A-48A-66A-66A		No
				3CC # 107	CA_13A-66B		4CC #91	4CC # 107	CA_48A-48C-66A		No
				3CC # 108	CA_13A-66C		4CC #92	4CC # 108	CA_48C-66A-66A		No
				3CC # 109	CA_14A-30A-66A		4CC #93	4CC # 109	CA_48D-66A		No
				3CC # 110	CA_14A-66A-66A		4CC #93	4CC # 110	CA_48E		No
				3CC # 111	CA_25A-25A-26A		No				
				3CC # 112	CA_25A-25A-41A		No				
				3CC # 113	CA_25A-41C		4CC #94				
				3CC # 114	CA_25A-46C	B46 SCC only	No				
				3CC # 115	CA_26A-41C		No				
				3CC # 116	CA_29A-30A-66A	B29 SCC only	4CC #97				
				3CC # 117	CA_29A-66A-66A	B29 SCC only	4CC #97				
				3CC # 118	CA_30A-66A-66A		No				
				3CC # 119	CA_41A-41C		No				
				3CC # 120	CA_41D		No				
				3CC # 121	CA_46A-46A-66A	B46 SCC only	No				
				3CC # 122	CA_46A-48A-66A	B46 SCC only	No				
				3CC # 123	CA_46A-66A-66A	B46 SCC only	No				
				3CC # 124	CA_46C-66A	B46 SCC only	4CC #104				
				3CC # 125	CA_48A-48A-66A		4CC #106				
				3CC # 126	CA_48A-48C		4CC #107				
				3CC # 127	CA_48A-66A-66A		4CC #106				
				3CC # 128	CA_48C-66A		4CC #108				
				3CC # 129	CA_48D		4CC #109				
				3CC # 130	CA_66A-66A-66A		No				
				3CC # 131	CA_66A-66A-71A		No				
				3CC # 132	CA_66A-66B		No				
				3CC # 133	CA_66A-66C		No				
				3CC # 134	CA_66C-71A		No				

In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the CA configuration with the largest aggregated DL CA BW in each frequency band, independently for contiguous and non-contiguous CA; however, if the same frequency band is used for both contiguous and non-contiguous CA, power measurement was performed using the configuration with the largest aggregated BW and maximum output power among contiguous and non-contiguous CA.

2CC DL CA Measured Results

E-UTRA CA configuration	CC1 (UL)					CC2 (DL)			Aggregated BW	CA Inactive (dBm)	CA Active (dBm)	Delta	2CC #
	Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)					
CA_2A-17A	QPSK	10	18900	1880	1,49	10	5790	740	20	24.09	24.06	-0.03	8
CA_4A-17A	QPSK	10	20350	1750	1,24	10	5790	740	20	24.63	24.51	-0.12	21
CA_5A-25A	QPSK	10	20525	836.5	1,24	20	8365	1962.5	30	24.08	24.20	0.12	28
CA_5A-41A	QPSK	10	20525	836.5	1,24	20	40620	2593	30	24.12	24.14	0.02	31
CA_7A-29A	QPSK	20	21100	2535	1,49	10	9715	722.5	30	23.70	23.69	-0.01	40
CA_7A-46A	QPSK	20	21100	2535	1,49	20	50665	5537.5	40	23.70	23.68	-0.02	41
CA_7B	QPSK	15	21076	2532.6	1,0	5	3169	2661.9	20	23.76	23.70	-0.06	43
CA_12A-25A	QPSK	10	23110	709	1,24	20	8365	1962.5	30	24.17	24.14	-0.03	45
CA_12A-46A	QPSK	10	23110	709	1,24	20	50665	5537.5	30	24.09	24.01	-0.08	47
CA_12A-48A	QPSK	10	23110	709	1,24	20	55990	3625	30	24.08	23.95	-0.13	48
CA_12B	QPSK	5	23038	701.8	1,12	10	5110	739	15	25.28	25.25	-0.03	50
CA_25A-41A	QPSK	20	26365	1882.5	1,49	20	41490	2680	40	24.93	24.85	-0.08	58
CA_25A-46A	QPSK	20	26140	1860	1,49	20	50665	5537.5	40	23.82	23.75	-0.07	59
CA_26A-41A	QPSK	10	26865	831.5	1,37	20	40842	2615.2	30	24.06	24.05	-0.01	60
CA_41A-41A	QPSK	20	39750	2506	1,0	20	41292	2660.2	40	23.55	23.50	-0.05	65
CA_66B	QPSK	10	132373	1750.1	1,24	10	66936	2160	20	25.10	24.77	-0.33	73

3CC DL CA Measured Results

E-UTRA CA configuration	CC1 (UL)					CC2 (DL)			CC3 (DL)			Aggregated BW	CA Inactive (dBm)	CA Active (dBm)	Delta	3CC #
	Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)					
CA_2A-2A-46A	QPSK	20	18700	1860	1,49	20	1100	1980	20	50665	5537.5	60	23.72	23.68	-0.04	9
CA_2A-4A-13A	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	5230	751	50	23.84	23.81	-0.03	16
CA_2A-4A-29A	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	9715	722.5	50	23.84	23.76	-0.08	17
CA_2A-4A-30A	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	9820	2355	50	23.83	23.78	-0.05	18
CA_2A-4A-71A	QPSK	20	18900	1880	1,49	20	2175	2132.5	20	68761	634.5	60	23.83	23.78	-0.05	19
CA_2A-5A-30A	QPSK	20	18900	1880	1,49	10	2525	881.5	10	9820	2355	40	23.85	23.76	-0.09	21
CA_2A-5A-46A	QPSK	20	18900	1880	1,49	10	2525	881.5	20	50665	5537.5	50	23.89	23.84	-0.05	22
CA_2A-13A-46A	QPSK	20	18900	1880	1,49	10	5230	751	20	50665	5537.5	50	23.96	23.84	-0.12	33
CA_2A-13A-48A	QPSK	20	18900	1880	1,49	10	5230	751	20	55773	3603.3	50	23.92	23.78	-0.14	34
CA_2A-14A-30A	QPSK	20	18900	1880	1,49	10	5330	763	10	9820	2355	40	24.90	24.85	-0.05	36
CA_2A-29A-30A	QPSK	20	18900	1880	1,49	10	9715	722.5	10	9820	2355	40	23.89	23.82	-0.07	38
CA_2A-29A-66A	QPSK	20	18900	1880	1,49	10	9715	722.5	20	66786	2145	50	23.83	23.80	-0.03	39
CA_2A-46A-46A	QPSK	20	18900	1880	1,49	20	50467	5517.7	20	50665	5537.5	60	23.90	23.76	-0.14	41
CA_2A-46A-48A	QPSK	20	18900	1880	1,49	20	50665	5537.5	20	55773	3603.3	60	23.88	23.76	-0.12	42
CA_2A-46A-66A	QPSK	20	18900	1880	1,49	20	50665	5537.5	20	66786	2145	60	23.92	23.80	-0.12	43
CA_2A-48A-48A	QPSK	20	18900	1880	1,49	20	55934	3619.4	20	55340	3560	60	23.88	23.76	-0.12	45
CA_2C-5A	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	2525	881.5	50	23.88	23.75	-0.13	52
CA_2C-12A	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	5095	737.5	50	23.87	23.80	-0.07	53
CA_2C-29A	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9715	722.5	50	23.88	23.76	-0.12	54
CA_2C-30A	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9820	2355	50	23.88	23.82	-0.06	55
CA_2C-66A	QPSK	20	18801	1870.1	1,49	20	999	1969.9	20	66786	2145	60	23.88	23.80	-0.08	56
CA_4A-4A-7A	QPSK	10	20000	1715	1,24	10	2350	2150	20	2850	2630	40	25.49	25.48	-0.01	58
CA_4A-4A-13A	QPSK	10	20000	1715	1,24	10	2350	2150	10	5230	751	30	25.46	25.11	-0.35	60
CA_4A-4A-29A	QPSK	10	20000	1715	1,24	10	2350	2150	10	9715	722.5	30	25.49	25.17	-0.32	61
CA_4A-4A-71A	QPSK	10	20000	1715	1,24	10	2350	2150	20	68761	634.5	40	25.48	25.20	-0.28	63
CA_4A-7A-7A	QPSK	20	20300	1745	1,49	20	2850	2630	20	3350	2680	60	24.97	24.96	-0.01	66
CA_4A-7A-12A	QPSK	20	20300	1745	1,49	20	2850	2630	10	5095	737.5	50	24.99	24.98	-0.01	67
CA_4A-7C	QPSK	20	20300	1745	1,49	20	2950	2640	20	3148	2659.8	60	24.99	24.98	-0.01	68
CA_4A-29A-30A	QPSK	20	20300	1745	1,49	10	9715	722.5	10	9820	2355	40	24.98	24.71	-0.27	71
CA_4A-46A-46A	QPSK	20	20300	1745	1,49	20	50467	5517.7	20	50665	5537.5	60	25.02	24.75	-0.27	72
CA_5A-7A-7A	QPSK	10	20525	836.5	1,24	20	3152	2660.2	20	3350	2680	50	24.23	24.23	0.00	75
CA_5A-46A-66A	QPSK	10	20525	836.5	1,24	20	50665	5537.5	20	66536	2120	50	24.17	24.11	-0.06	79
CA_7A-7A-13A	QPSK	20	20850	2510	1,49	20	3350	2680	10	5230	751	50	23.60	23.57	-0.03	88
CA_7A-7A-26A	QPSK	20	20850	2510	1,49	20	3350	2680	15	8865	876.5	55	23.62	23.61	-0.01	89
CA_7A-12A-66A	QPSK	20	21100	2535	1,49	10	5095	737.5	20	66786	2145	50	23.72	23.65	-0.07	91
CA_7A-46C	QPSK	20	21100	2535	1,49	20	50467	5517.7	20	50665	5537.5	60	23.66	23.63	-0.03	92
CA_7A-66A-66A	QPSK	20	21100	2535	1,49	20	66536	2120	20	67236	2190	60	23.68	23.60	-0.08	93
CA_7C-13A	QPSK	20	21001	2525.1	1,49	20	3199	2664.9	10	5230	751	50	23.63	23.61	-0.02	94
CA_7C-46A	QPSK	20	21001	2525.1	1,49	20	3199	2664.9	20	50665	5537.5	60	23.71	23.65	-0.06	95
CA_12A-48C	QPSK	10	23095	707.5	1,24	20	55934	3619.4	20	55736	3599.6	40	25.24	25.12	-0.12	98
CA_12A-66C	QPSK	10	23095	707.5	1,24	20	66787	2145.1	20	66985	2164.9	40	25.22	25.21	-0.01	100
CA_13A-46A-46A	QPSK	10	23230	782	1,24	20	50467	5517.7	20	50665	5537.5	50	25.14	25.14	0.00	101
CA_13A-46A-66A	QPSK	10	23230	782	1,24	20	50665	5537.5	20	66786	2145	50	24.11	24.05	-0.06	102
CA_13A-48A-66A	QPSK	10	23230	782	1,24	20	55990	3625	20	66786	2145	50	24.05	23.40	-0.65	104
CA_13A-66A-66A	QPSK	10	23230	782	1,24	20	66536	2120	20	67236	2190	50	24.18	24.12	-0.06	106
CA_25A-25A-26A	QPSK	20	26140	1860	1,49	20	8590	1985	5	8865	876.5	45	23.77	23.74	-0.03	111
CA_25A-25A-41A	QPSK	20	26140	1860	1,49	20	8590	1985	20	40340	2565	60	23.82	23.78	-0.04	112
CA_25A-46C	QPSK	20	26140	1860	1,49	20	50692	5540.2	20	50890	5560	60	23.86	23.78	-0.08	114
CA_26A-41C	QPSK	15	26865	831.5	1,37	20	40842	2615.2	20	41040	2645	55	23.83	23.75	-0.08	115
CA_30A-66A-66A	QPSK	10	27710	2310	1,24	20	66536	2120	20	67236	2190	50	24.15	24.02	-0.13	118
CA_41A-41C	QPSK	20	39750	2506	1,0	20	41292	2660.2	20	41490	2680	60	23.06	22.99	-0.07	119
CA_41D	QPSK	20	40422	2573.2	1,49	20	40620	2593	20	40818	2612.8	60	24.04	24.02	-0.02	120
CA_46A-46A-66A	QPSK	20	46890	5160	1,49	20	54340	5905	20	66786	2145	60	23.28	23.26	-0.02	121
CA_46A-48A-66A	QPSK	20	46890	5160	1,49	20	55990	3625	20	66786	2145	60	23.61	23.54	-0.07	122
CA_46A-66A-66A	QPSK	20	46890	5160	1,49	20	66536	2120	20	67236	2190	60	23.02	22.96	-0.06	123
CA_66A-66A-66A	QPSK	20	132322	1745	1,49	20	66536	2120	20	67236	2190	60	25.08	24.84	-0.24	130
CA_66A-66A-71A	QPSK	20	132322	1745	1,0	20	67236	2190	20	68761	634.5	60	23.90	23.77	-0.13	131
CA_66A-66B	QPSK	20	132322	1745	1,49	10	67086	2175	10	67185	2184.9	40	25.04	24.83	-0.21	132
CA_66A-66C	QPSK	20	132322	1745	1,49	20	67036	2170	20	67234	2189.8	60	25.02	24.78	-0.24	133
CA_66C-71A	QPSK	20	132572	1770	1,49	20	67234	2189.8	20	68761	634.5	60	25.07	24.81	-0.26	134

E-UTRA CA configuration	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			Aggregated BW	CA Inactive (dBm)	CA Active (dBm)	Delta	4CC #
	Mode	BW (MHz)	Channel	Freq (MHz)	RB, Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)					
CA_2A-2A-4A-4A	QPSK	20	18700	1860	1,49	20	1100	1980	20	2050	2120	20	2300	2145	80	25.16	25.03	-0.13	1
CA_2A-2A-4A-5A	QPSK	20	18900	1880	1,49	20	1100	1980	20	2175	2132.5	10	2525	881.5	70	25.62	25.46	-0.16	2
CA_2A-2A-4A-12A	QPSK	20	18900	1880	1,49	20	1100	1980	20	2175	2132.5	10	5095	737.5	70	25.68	25.56	-0.12	3
CA_2A-2A-5A-30A	QPSK	20	18700	1860	1,49	20	1100	1980	10	2525	881.5	10	9820	2355	60	24.25	24.37	0.12	4
CA_2A-2A-5A-66A	QPSK	20	18700	1860	1,49	20	1100	1980	10	2525	881.5	20	66536	2120	70	25.57	25.44	-0.13	5
CA_2A-2A-7A-12A	QPSK	20	18700	1860	1,49	20	1100	1980	20	2850	2630	10	5095	737.5	70	24.27	24.37	0.10	6
CA_2A-2A-7A-66A	QPSK	20	18700	1860	1,49	20	1100	1980	20	2850	2630	20	66536	2120	80	25.09	25.05	-0.04	7
CA_2A-2A-12A-30A	QPSK	20	18700	1860	1,49	20	1100	1980	10	5095	737.5	10	9820	2355	60	24.29	24.20	-0.09	8
CA_2A-2A-12A-66A	QPSK	20	18700	1860	1,49	20	1100	1980	10	5095	737.5	20	66536	2120	70	24.29	24.18	-0.11	9
CA_2A-2A-12B	QPSK	20	18700	1860	1,49	20	1100	1980	5	5048	732.8	10	5120	740	55	25.07	24.90	-0.17	10
CA_2A-2A-13A-66A	QPSK	20	18900	1880	1,49	20	1100	1980	10	5230	751	20	66786	2145	70	25.15	25.06	-0.09	11
CA_2A-2A-14A-30A	QPSK	20	18700	1860	1,49	20	1100	1980	10	5330	763	10	9820	2355	60	24.37	24.26	-0.11	12
CA_2A-2A-14A-66A	QPSK	20	18700	1860	1,49	20	1100	1980	10	5330	763	20	66536	2120	70	24.21	24.20	-0.01	13
CA_2A-2A-29A-30A	QPSK	20	18700	1860	1,49	20	1100	1980	10	9715	722.5	10	9820	2355	60	25.07	25.02	-0.05	14
CA_2A-2A-30A-66A	QPSK	20	18700	1860	1,49	20	1100	1980	10	9820	2355	20	66536	2120	70	24.40	24.31	-0.09	15
CA_2A-2A-46C	QPSK	20	18700	1860	1,49	20	1100	1980	20	50467	5517.7	20	50665	5537.5	80	25.26	25.15	-0.11	16
CA_2A-2A-66A-66A	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	20	67236	2190	80	24.30	24.20	-0.10	17
CA_2A-2A-66A-71A	QPSK	20	18900	1880	1,49	20	1100	1980	20	66786	2145	20	68761	634.5	80	25.68	25.54	-0.14	18
CA_2A-2A-66B	QPSK	20	18700	1860	1,49	20	1100	1980	10	67187	2185.1	10	67286	2195	60	24.26	24.22	-0.04	19
CA_2A-2A-66C	QPSK	20	18700	1860	1,49	20	1100	1980	20	67038	2170.2	20	67236	2190	80	24.28	24.19	-0.09	20
CA_2A-4A-4A-5A	QPSK	20	18900	1880	1,49	20	2050	2120	20	2300	2145	10	2525	881.5	70	25.59	25.56	-0.03	21
CA_2A-4A-4A-12A	QPSK	20	18900	1880	1,49	20	2050	2120	20	2300	2145	10	5095	737.5	70	25.64	25.57	-0.07	22
CA_2A-4A-5B	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	2476	876.6	10	2575	886.5	60	25.29	25.23	-0.06	23
CA_2A-4A-7A-7A	QPSK	20	18900	1880	1,49	20	2175	2132.5	20	2850	2630	20	3350	2680	80	25.31	25.30	-0.01	24
CA_2A-4A-7C	QPSK	20	18900	1880	1,49	20	2175	2132.5	20	2950	2640	20	3148	2659.8	80	25.32	25.18	-0.14	25
CA_2A-4A-12B	QPSK	20	18900	1880	1,49	20	2175	2132.5	5	5048	732.8	10	5120	740	55	25.34	25.22	-0.12	26
CA_2A-5A-7A-7A	QPSK	20	18900	1880	1,49	10	2525	881.5	20	2850	2630	20	3350	2680	70	24.34	24.29	-0.05	27
CA_2A-5A-7C	QPSK	20	18900	1880	1,49	10	2525	881.5	20	2950	2640	20	3148	2659.8	70	24.32	24.20	-0.12	28
CA_2A-5A-46C	QPSK	20	18900	1880	1,49	10	2525	881.5	20	50467	5517.7	20	50665	5537.5	70	25.27	25.21	-0.06	29
CA_2A-5A-66A-66A	QPSK	20	18900	1880	1,49	10	2525	881.5	20	66536	2120	20	67236	2190	70	24.38	24.23	-0.15	30
CA_2A-5A-66B	QPSK	20	18900	1880	1,49	10	2525	881.5	10	67187	2185.1	10	67286	2195	50	24.40	24.28	-0.12	31
CA_2A-5A-66C	QPSK	20	18900	1880	1,49	10	2525	881.5	20	67038	2170.2	20	67236	2190	70	24.41	24.30	-0.11	32
CA_2A-5B-30A	QPSK	20	18900	1880	1,49	10	2476	876.6	10	2575	886.5	10	9820	2355	50	24.35	24.18	-0.17	33
CA_2A-5B-66A	QPSK	20	18900	1880	1,49	10	2476	876.6	10	2575	886.5	20	66536	2120	60	24.37	24.24	-0.13	34
CA_2A-7A-7A-13A	QPSK	20	18900	1880	1,49	20	2850	2630	20	3350	2680	10	5230	751	70	25.27	25.26	-0.01	35
CA_2A-7A-7A-66A	QPSK	20	18900	1880	1,49	20	2850	2630	20	3350	2680	20	66536	2120	80	24.27	24.24	-0.03	36
CA_2A-7A-66A-66A	QPSK	20	18900	1880	1,49	20	2850	2630	20	66536	2120	20	67236	2190	80	25.31	25.23	-0.08	37
CA_2A-7C-13A	QPSK	20	18900	1880	1,49	20	2950	2640	20	3148	2659.8	10	5230	751	70	25.24	25.22	-0.02	38
CA_2A-7C-66A	QPSK	20	18900	1880	1,49	20	2950	2640	20	3148	2659.8	20	66536	2120	80	25.39	25.38	-0.01	39
CA_2A-12A-66A-66A	QPSK	20	18900	1880	1,49	10	5095	737.5	20	66536	2120	20	67236	2190	70	24.41	24.35	-0.06	40
CA_2A-12A-66C	QPSK	20	18900	1880	1,49	10	5095	737.5	20	66787	2145.1	20	66985	2164.9	70	25.26	25.25	-0.01	41
CA_2A-13A-46C	QPSK	20	18900	1880	1,49	10	5230	751	20	50467	5517.7	20	50665	5537.5	70	25.24	25.17	-0.07	42
CA_2A-13A-66A-66A	QPSK	20	18900	1880	1,49	10	5230	751	20	66536	2120	20	67236	2190	70	25.32	24.22	-1.10	43
CA_2A-13A-66B	QPSK	20	18900	1880	1,49	10	5230	751	10	66837	2150.1	10	66936	2160	50	25.22	25.20	-0.02	44
CA_2A-13A-66C	QPSK	20	18900	1880	1,49	10	5230	751	20	66787	2145.1	20	66985	2164.9	70	25.28	25.22	-0.06	45
CA_2A-14A-66A-66A	QPSK	20	18900	1880	1,49	10	5330	763	20	66536	2120	20	67236	2190	70	25.35	25.33	-0.02	46
CA_2A-30A-66A-66A	QPSK	20	18900	1880	1,49	10	9820	2355	20	66536	2120	20	67236	2190	70	25.36	25.35	-0.01	47
CA_2A-46A-46C	QPSK	20	18900	1880	1,49	20	50467	5517.7	20	50467	5517.7	20	50665	5537.5	80	25.38	25.33	-0.05	48
CA_2A-46A-48C	QPSK	20	18900	1880	1,49	20	50467	5517.7	20	55538	3579.8	20	55340	3560	90	25.30	25.23	-0.07	49
CA_2A-46C-48A	QPSK	20	18900	1880	1,49	20	46890	5160	20	47088	5179.8	20	55934	3619.4	80	25.29	25.22	-0.07	50
CA_2A-46C-66A	QPSK	20	18900	1880	1,49	20	50467	5517.7	20	50665	5537.5	20	67236	2190	80	25.31	25.25	-0.06	51
CA_2A-46D	QPSK	20	18900	1880	1,49	20	50467	5517.7	20	50665	5537.5	20	50863	5557.3	80	25.22	25.18	-0.04	52
CA_2A-48A-66A-66A	QPSK	20	18900	1880	1,49	20	55934	3619.4	20	66536	2120	20	67236	2190	80	25.31	25.28	-0.03	53
CA_2A-48C-66A	QPSK	20	18900	1880	1,49	20	55934	3619.4	20	55736	3599.6	20	67236	2190	80	25.31	25.25	-0.06	54
CA_2A-48D	QPSK	20	18900	1880	1,49	20	55934	3619.4	20	55736	3599.6	20	55538	3579.8	80	25.26	25.24	-0.02	55
CA_2A-66A-66A-66A	QPSK	20	18900	1880	1,49	20	66786	2145	20	66536	2120	20	67236	2190	80	24.87	24.78	-0.09	56
CA_2A-66A-66A-71A	QPSK	20	18900	1880	1,49	20	66536	2120	20	67236	2190	20	68761	634.5	80	25.31	25.27	-0.04	57
CA_2A-66A-66B	QPSK	20	18900	1880	1,49	20	66536	2120	10	67187	2185.1	10	67286	2195	60	25.21	25.20	-0.01	58
CA_2A-66A-66C	QPSK	20	18900	1880	1,49	20	66536	2120	20	67038	2170.2	20	67236	2190	80	25.20	25.17	-0.03	59
CA_2A-66C-71A	QPSK	20	18900	1880	1,49	20	67038	2170.2	20	67236	2190	20	68761	634.5	80	25.22	25.18	-0.04	60
CA_2C-66A-66A	QPSK	20	18801	1870.1	1,0	20	999	1969.9	20	66536	2120	20	67236	2190	80	25.37	25.17	-0.20	61
CA_4A-4A-5A-30A	QPSK	20	2050	2120	1,49	20	2300	2145	10	2525	881.5	10	9820	2355	60	25.33	25.31	-0.02	62
CA_4A-4A-5B	QPSK	20	2050	2120	1,49	20	2300	2145	10	2476	876.6	10	2575	886.5	60	25.39	25.35	-0.04	63
CA_4A-4A-12A-30A	QPSK	20	2050	2120	1,49	20	2300	2145	10	5095	737.5	10	9820	2355	60	25.36	25.34	-0.02	64
CA_4A-4A-12B	QPSK	20	2050	2120	1,49	20	2300	2145	5	5048	732.8	10	51						

E-UTRA CA configuration	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			Aggregated BW	CA Inactive (dBm)	CA Active (dBm)	Delta	4CC #
	Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)					
CA_5A-46D	QPSK	10	20525	836.5	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8	70	25.26	25.17	-0.09	73
CA_5A-48A-66A-66A	QPSK	10	20525	836.5	1,24	20	55934	3619.4	10	66536	2120	10	66936	2160	50	25.24	25.23	-0.01	74
CA_5A-48C-66A	QPSK	10	20525	836.5	1,24	20	55538	3579.8	20	55340	3560	10	66536	2120	60	25.25	25.19	-0.06	75
CA_5A-66A-66B	QPSK	10	20525	836.5	1,24	20	66536	2120	10	67187	2185.1	10	67286	2195	50	25.41	25.38	-0.03	76
CA_5A-66A-66C	QPSK	10	20525	836.5	1,24	20	66536	2120	20	67038	2170.2	20	67236	2190	70	25.38	25.37	-0.01	77
CA_5B-30A-66A	QPSK	10	2476	876.6	1,24	10	2575	886.5	10	9820	2355	20	66536	2120	50	25.27	25.25	-0.02	78
CA_5B-66A-66A	QPSK	10	2476	876.6	1,24	10	2575	886.5	10	66536	2120	10	66936	2160	40	25.30	25.24	-0.06	79
CA_5B-66B	QPSK	10	2476	876.6	1,24	10	2575	886.5	10	67187	2185.1	10	67286	2195	40	25.22	25.13	-0.09	80
CA_5B-66C	QPSK	10	2476	876.6	1,24	10	2575	886.5	20	67038	2170.2	20	67236	2190	60	25.34	25.28	-0.06	81
CA_7A-7A-66A-66A	QPSK	20	2850	2630	1,0	20	3350	2680	10	66536	2120	10	66936	2160	60	25.35	25.31	-0.04	82
CA_7A-46D	QPSK	20	21001	2525.1	1,0	20	50492	5520.2	20	50690	5540	20	50888	5559.8	80	25.24	25.23	-0.01	83
CA_7C-46C	QPSK	20	21001	2525.1	1,0	20	3199	2664.9	20	50467	5517.7	20	50665	5537.5	80	25.54	25.44	-0.10	84
CA_7C-66A-66A	QPSK	20	21001	2525.1	1,0	20	3199	2664.9	10	66536	2120	10	66936	2160	60	25.29	25.22	-0.07	85
CA_12A-30A-66A-66A	QPSK	10	23130	711	1,24	10	9820	2355	20	66536	2120	20	67236	2190	60	25.20	25.18	-0.02	86
CA_13A-46C-66A	QPSK	10	23230	782	1,24	20	50467	5517.7	20	50665	5537.5	20	66536	2120	70	23.39	23.32	-0.07	87
CA_13A-46D	QPSK	10	23230	782	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8	70	25.23	25.21	-0.02	88
CA_13A-48C-66A	QPSK	10	23230	782	1,24	20	55934	3619.4	20	55736	3599.6	20	66536	2120	70	24.42	23.77	-0.65	89
CA_13A-48D	QPSK	10	23230	782	1,24	20	55934	3619.4	20	55736	3599.6	20	55538	3579.8	70	25.24	25.21	-0.03	90
CA_13A-66A-66B	QPSK	10	23230	782	1,24	20	66536	2120	10	67187	2185.1	10	67286	2195	50	24.58	24.54	-0.04	91
CA_13A-66A-66C	QPSK	10	23230	782	1,24	20	66536	2120	20	67038	2170.2	20	67236	2190	70	24.49	24.47	-0.02	92
CA_14A-30A-66A-66A	QPSK	10	23330	793	1,24	10	9820	2355	20	66536	2120	20	67236	2190	60	24.90	24.88	-0.02	93
CA_25A-25A-41C	QPSK	5	26665	1912.5	1,24	5	8321	1958.1	20	40842	2615.2	20	41040	2635	50	25.68	25.66	-0.02	94
CA_25A-41D	QPSK	20	39750	2506	1,49	20	41094	2640.4	20	41292	2660.2	20	41490	2680	80	25.38	25.30	-0.08	95
CA_25A-46D	QPSK	5	26665	1912.5	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8	65	25.66	25.64	-0.02	96
CA_41A-41D	QPSK	20	39750	2506	1,49	20	41094	2640.4	20	41292	2660.2	20	41490	2680	80	25.16	25.14	-0.02	98
CA_41C-41C	QPSK	20	39750	2506	1,0	20	39948	2525.8	20	41292	2660.2	20	41490	2680	80	25.17	25.13	-0.04	99
CA_41E	QPSK	20	40890	2620	1,0	20	41090	2640	20	41290	2660	20	41490	2680	80	25.28	25.20	-0.08	100
CA_46A-46C-66A	QPSK	20	50665	5537.5	1,49	20	46890	5160	20	47088	5179.8	10	66536	2120	70	25.29	25.24	-0.05	101
CA_46A-48C-66A	QPSK	20	50665	5537.5	1,49	20	55538	3579.8	20	55340	3560	10	66536	2120	70	25.40	25.31	-0.09	102
CA_46C-48A-66A	QPSK	20	50467	5517.7	1,49	20	50665	5537.5	20	55934	3619.4	10	66536	2120	70	25.22	25.17	-0.05	103
CA_46C-66A-66A	QPSK	20	50467	5517.7	1,49	20	50665	5537.5	10	66536	2120	10	66936	2160	60	25.20	25.10	-0.10	104
CA_46D-66A	QPSK	20	50467	5517.7	1,49	20	50665	5537.5	20	50863	5557.3	10	66536	2120	70	25.22	25.13	-0.09	105
CA_48A-48A-66A-66A	QPSK	20	55340	3560	1,49	20	56640	3690	20	66536	2120	20	67236	2190	80	25.69	25.61	-0.08	106
CA_48A-48C-66A	QPSK	20	55934	3619.4	1,49	20	55538	3579.8	20	55340	3560	10	66536	2120	70	25.32	25.31	-0.01	107
CA_48C-66A-66A	QPSK	20	55934	3619.4	1,49	20	55736	3599.6	10	66536	2120	10	66936	2160	60	25.22	25.21	-0.01	108
CA_48D-66A	QPSK	20	55934	3619.4	1,49	20	55736	3599.6	20	55538	3579.8	10	66536	2120	70	25.40	25.30	-0.10	109
CA_48E	QPSK	20	55934	3619.4	1,49	20	55736	3599.6	20	55538	3579.8	20	55340	3560	80	24.20	24.18	-0.02	110

