

G.1 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in RF Conducted Powers Section and LTE/NR Lower Bandwidth RF Conducted Powers Appendix. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

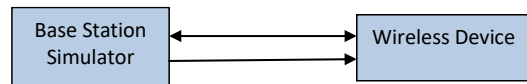


Figure G-1
DL CA Power Measurement Setup

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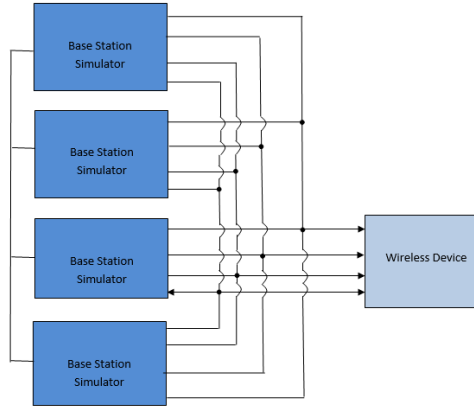


Figure G-2
DL CA with DL 4x4 MIMO Power Measurement Setup

G.2 Downlink Carrier Aggregation RF Conducted Powers

G.2.1 LTE Band 71 as PCC

Table G-3
Maximum Output Powers

Combination	PCC Band	PCC							SCC 1				SCC 2			SCC 3			SCC 4			Power									
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]				
CA_48A-71A	LTE B71	10	133422	693	25QAM	1	0	68886	647	LTE B48	20	56040	3690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.88	18.77		
CA_2A-4A-71A	LTE B71	10	133422	693	25QAM	1	0	68886	647	LTE B2	20	900	1950	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	18.67	18.77	
CA_4A-4A-71A	LTE B71	10	133422	693	25QAM	1	0	68886	647	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	-	-	-	-	-	-	-	18.64	18.77	
CA_2A-6EA-6EA-71A	LTE B71	10	133422	693	25QAM	1	0	68886	647	LTE B2	20	900	1950	LTE B66	20	66786	2145	LTE B66	20	67236	2190	67236	2190	-	-	-	-	-	-	18.65	18.77
CA_2A-6B2-71A	LTE B71	10	133422	693	25QAM	1	0	68886	647	LTE B2	20	900	1950	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	-	-	-	-	-	-	-	-	18.10	18.77
CA_2A-7A-7A-6EA-71A	LTE B71	10	133422	693	25QAM	1	0	68886	647	LTE B2	20	700	1940	LTE B2	20	900	1950	LTE B7	20	3100	2655	LTE B66	20	66786	2145	-	-	-	-	18.15	18.77

G.2.2 LTE Band 12 as PCC

Table G-4
Maximum Output Powers

Combination	PCC Band	PCC							SCC 1				SCC 2			SCC 3			SCC 4			Power									
		PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]				
CA_2A-12A (1)	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.90	19.66		
CA_4A-12A (1)	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.91	19.66	
CA_4A-12A (2)	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.92	19.66	
CA_12A-25A	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B25	20	8365	1922.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.90	19.66	
CA_12A-48A	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B48	20	55930	3625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.74	19.66	
CA_12A-66A (1)	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.86	19.66	
CA_12A-66A (2)	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.85	19.66	
CA_3C-12A	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	-	-	-	19.51	19.66
CA_12A-48C	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B48	20	55930	3625	LTE B48	20	62188	3644.8	-	-	-	-	-	-	-	-	-	-	-	-	19.67	19.66
CA_2A-2A-12A	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	19.13	19.66
CA_2A-2A-12B	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1950	LTE B2	20	700	1940	-	-	-	-	-	-	-	-	19.11	19.66
CA_2A-4A-12A	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	-	-	-	-	19.11	19.66
CA_2A-4A-7A-12A	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	19.12	19.66
CA_2A-4A-12B	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1950	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	19.07	19.66
CA_2A-12A-48C	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	-	-	-	-	-	-	-	-	19.11	19.66
CA_4A-12A-12B	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B4	20	2175	2132.5	LTE B4	10	2300	2150	-	-	-	-	-	-	-	-	19.13	19.66
CA_2A-2A-7A-12A-6EA	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B2	20	700	1940	LTE B7	20	3100	2655	LTE B66	20	66786	2145	-	-	-	-	19.27	19.66
CA_2A-2A-12A-30A-6EA	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B2	20	700	1940	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	19.29	19.66
CA_2A-2A-12A-6EA-6EA	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	19.29	19.66
CA_2A-12A-30A-6EA-6EA	LTE B12	5	23095	707.5	16QAM	1	12	5095	737.5	LTE B2	20	900	1950	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	19.30	19.66

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G.3 DL CA with DL 4x4 MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section G.1 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

Table G-15
Maximum Output Powers – Antenna 3

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
66	5	131997	1712.5	16QAM	1	12	16.09	15.96	15.1
25	20	26140	1860	16QAM	1	50	13.81	13.70	13.3

Table G-16
Maximum Output Powers – Antenna 2b

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
48	10	56223	3648.3	64QAM	1	49	13.40	13.47	13.1

Table G-17
Maximum Output Powers – Antenna 1

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
7	10	20800	2505	64QAM	1	0	13.88	13.65	13.0
30	5	27710	2310	64QAM	1	12	14.97	14.76	14.8
41	5	41490	2680	16QAM	1	12	15.46	15.27	15.0

G.3.1 LTE Band 71 as PCC

Table G-18
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power							
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC [UL] RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx. Power with DL CA Enabled (dBm)	LTE Single Carrier Tx. Power (dBm)				
CA_1(BA)71A	LTE B71	10	133422	693	256QAM	1	0	68880	647	2x2	LTE B48	20	56640	3690	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.54	18.77			
CA_1(A)477A	LTE B71	10	133422	693	256QAM	1	0	68880	647	2x2	LTE B2	20	900	1950	4x4	LTE B4	10	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	17.96	18.77			
CA_1(A)477A	LTE B71	10	133422	693	256QAM	1	0	68880	647	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	18.02	18.77			
CA_1(A)477A	LTE B71	10	133422	693	256QAM	1	0	68880	647	2x2	LTE B2	20	900	1950	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	18.50	18.77		
CA_1(A)477A	LTE B71	10	133422	693	256QAM	1	0	68880	647	2x2	LTE B2	20	900	1950	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	18.50	18.77		
CA_1(A)477A	LTE B71	10	133422	693	256QAM	1	0	68880	647	2x2	LTE B2	20	900	1940	4x4	LTE B2	20	900	1960	4x4	LTE B7	20	3100	2655	4x4	LTE B66	20	66786	2145	4x4	-	-	18.58	18.77

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G.3.6 LTE Band 26 as PCC

Table G-23 Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch. [Ch.]	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch. [Ch.]	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. [Ch.]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. [Ch.]	SCC [DL] Freq. [MHz]	DL Ant. Config.	Power		
																					LTE Tx Power with DL CA Enabled	LTE Single Carrier Tx Power (dBm)	
CA [7A] 26A	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	-	18.67	19.41
CA [25A] 26A	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	-	18.66	19.41
CA 26A-[41A]	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	19.45	19.41
CA [7A][7A]-26A	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	-	18.44	19.41
CA [25A][25A]-26A	LTE B26	5	27015	846.5	64QAM	1	12	9015	891.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	-	18.55	19.27
CA 26A-[41C]	LTE B26	10	26740	819	16QAM	1	0	8740	864	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	19.38	19.41

G.3.7 LTE Band 66 as PCC

Table G-24 Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch. [Ch.]	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch. [Ch.]	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. [Ch.]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. [Ch.]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. [Ch.]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. [Ch.]	SCC [DL] Freq. [MHz]	DL Ant. Config.	Power					
																															LTE Tx Power with DL CA Enabled	LTE Single Carrier Tx Power (dBm)				
CA [12A] 66A	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.05	15.50				
CA [12A] 66A [12]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.05	15.50		
CA [4A][4A]-66A	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B6A	20	55990	3625	4x4	LTE B6A	20	55640	3600	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	16.01	15.98	
CA [2A] [2A] 66A	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.07	15.50
CA [2A] [2A] 66A [2]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.06	15.50
CA [2A] [2A] 66A [4]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.08	15.50
CA [2A] [2A] 66A [8]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.12	15.50
CA [2A] [2A] 66A [16]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.17	15.50
CA [2A] [2A] 66A [32]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.21	15.50
CA [2A] [2A] 66A [64]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.23	15.50
CA [2A] [2A] 66A [128]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.25	15.50
CA [2A] [2A] 66A [256]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.27	15.50
CA [2A] [2A] 66A [512]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.29	15.50
CA [2A] [2A] 66A [1024]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.31	15.50
CA [2A] [2A] 66A [2048]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.33	15.50
CA [2A] [2A] 66A [4096]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.35	15.50
CA [2A] [2A] 66A [8192]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.37	15.50
CA [2A] [2A] 66A [16384]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.39	15.50
CA [2A] [2A] 66A [32768]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.41	15.50
CA [2A] [2A] 66A [65536]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.43	15.50
CA [2A] [2A] 66A [131072]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.45	15.50
CA [2A] [2A] 66A [262144]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.47	15.50
CA [2A] [2A] 66A [524288]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.49	15.50
CA [2A] [2A] 66A [1048576]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.51	15.50
CA [2A] [2A] 66A [2097152]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.53	15.50
CA [2A] [2A] 66A [4194304]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.55	15.50
CA [2A] [2A] 66A [8388608]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.57	15.50
CA [2A] [2A] 66A [16777216]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.59	15.50
CA [2A] [2A] 66A [33554432]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.61	15.50
CA [2A] [2A] 66A [67108864]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4	LTE B62	20	900	1960	4x4	LTE B62	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.63	15.50
CA [2A] [2A] 66A [134217728]	LTE B66	5	15997	1723.5	16QAM	1	12	6663	2123.5	4x4</																										

