

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.

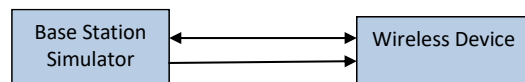


Figure G-1
DL CA Power Measurement Setup

FCC ID BCGA2903	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G: Page 2 of 12

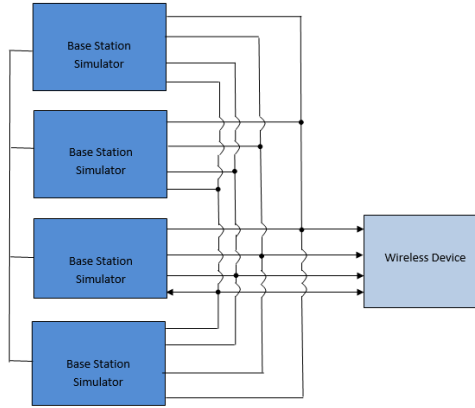


Figure G-2
DL CA with DL 4x4 MIMO Power Measurement Setup

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 BW [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
			PCC [UL] Ch. 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]	
CA 4B-71A	LTE B71	5	133147	665.5	SCQAM	5	12	68611	618.5	LTE B40	20	55980	9625	-	-	-	-	-	-	-	-	-	-	-	-	20.11	20.55
CA 2A-4A-71A	LTE B71	5	133147	665.5	SCQAM	5	12	68611	618.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	20.15	20.55
CA 4A-4A-71A	LTE B71	5	133147	665.5	SCQAM	5	12	68611	618.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	20.15	20.55
CA 2A-6A-66A-71A	LTE B71	5	133147	665.5	SCQAM	5	12	68611	618.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67230	2190	-	-	-	-	20.15	20.55
CA 2A-6C-71A	LTE B71	5	133147	665.5	SCQAM	5	12	68611	618.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	20.15	20.55
CA 2A-7A-66A-71A	LTE B71	5	133147	665.5	SCQAM	5	12	68611	618.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	LTE B66	20	66786	2145	20.15	20.55

G.2.2 LTE Band 12 as PCC

Table G-4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch. Freq. [MHz]	PCC				PCC [DL] Channel	SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel		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]			
CA 2A-12A (1)	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	19.51	19.29	
CA 4A-12A (1)	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	19.42	19.29	
CA 4A-12A (2)	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	19.42	19.29	
CA 12A-25A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B25	20	4365	1962.5	-	-	-	-	-	-	-	-	-	-	-	19.40	19.29	
CA 12A-48A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B48	20	55980	3625	-	-	-	-	-	-	-	-	-	-	-	19.25	19.29	
CA 12A-66A (1)	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	19.37	19.29	
CA 12A-66A (2)	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	19.37	19.29	
CA 2C-12A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	-	18.89	19.29	
CA 12A-48C	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B48	20	55980	3625	LTE B48	20	55980	3644.8	-	-	-	-	-	-	-	19.18	19.29	
CA 2A-2A-4A-12A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	19.02	19.29
CA 2A-12A-12B	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	18.98	19.29
CA 2A-4A-12A-12A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	19.06	19.29
CA 2A-4A-7A-12A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	19.00	19.29
CA 2A-4A-12B	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	18.90	19.29
CA 2A-12A-66C	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66994	2543.8	-	-	-	-	19.02	19.29
CA 4A-4A-12B	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B12	5	5047	732.7	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	18.92	19.29
CA 2A-2A-7A-12A-66A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B7	20	3100	2655	LTE B66	20	66786	2145	19.14	19.29
CA 2A-12A-12A-30A-66A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9620	2355	LTE B66	20	66786	2145	19.10	19.29
CA 2A-12A-12A-30A-66A-66A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9620	2355	LTE B66	20	66786	2145	19.15	19.29
CA 2A-12A-12A-30A-66A-66A	LTE B12	5	23095	707.5	SCQAM	1	12	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9620	2355	LTE B66	20	66786	2145	LTE B66	20	66786	2145	19.17	19.29

G.2.3 LTE Band 13 as PCC

Table G-5
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch. Freq. [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power			
				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 CA enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-4A-13A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	19.08	19.41
CA 2A-13A-48A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B48	20	55980	3625	-	-	-	-	-	-	-	-	19.08	19.41
CA 4A-4A-13A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	19.21	19.41
CA 13A-66A-66B	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B48	20	55980	3625	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	19.16	19.41
CA 2A-7C-13A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	3100	2655	-	-	-	-	19.28	19.41
CA 2A-13A-48C	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B48	20	55980	3625	LTE B48	20	55980	3644.8	-	-	-	-	19.02	19.41
CA 2A-13A-66B	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	19.06	19.41
CA 2A-13A-66C	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	19.06	19.41
CA 13A-48C-66A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B48	20	55980	3625	LTE B48	20	55980	3644.8	LTE B66	20	66786	2145	-	-	-	-	19.62	19.41
CA 13A-66A-66B	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	19.06	19.41
CA 13A-66A-66C	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B66	20	66786	2145	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	19.06	19.41
CA 2A-13A-66A-66A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66786	2145	19.87	19.41
CA 2A-7A-13A-66A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B2	20	900	1960	LTE B7	20	2850	2630	LTE B7	20	3100	2655	LTE B66	20	66786	2145	18.87	19.41
CA 13A-48B-66A	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B48	20	55980	3625	LTE B48	20	55980	3644.8	LTE B48	20	55980	3644.8	-	-	-	-	19.12	19.41
CA 13A-48C	LTE B13	10	23230	782	SCQAM	5	25	5230	751	LTE B48	20	55980	3625	LTE B48	20	55980	3644.8	LTE B48	20	55980	3644.8	-	-	-	-	19.11	19.41

FCC ID BCGA2903

SAR EVALUATION REPORT

Approved by:

Technical Manager

DUT Type:
Tablet Device

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G.2.4 LTE Band 14 as PCC

Table G-6
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1			SCC 2			SCC 3			SCC 4			Power							
			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]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 2A-2A-14A-30A-66A	LTE B14	10	23330	793	16QAM	1	49	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9620	2355	LTE B66	20	66786	2145	18.72	18.16
CA 2A-2A-14A-66A-66A	LTE B14	10	23330	793	16QAM	1	49	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.64	18.16
CA 2A-14A-30A-66A-66A	LTE B14	10	23330	793	16QAM	1	49	5330	763	LTE B2	20	900	1960	LTE B30	10	9620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.68	18.16

G.2.5 LTE Band 5 as PCC

Table G-7
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power				
			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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 5A-7A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	18.64	18.69		
CA 2A-5A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	18.58	18.69		
CA 5A-41A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	18.67	18.69		
CA 5B (1)	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B5	3	2586	887.6	-	-	-	-	-	-	-	-	-	-	18.68	18.69		
CA 2C-5A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	18.58	18.69		
CA 5A-5B	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B5	10	2563	884.3	LTE B4	20	2175	2132.5	-	-	-	-	-	-	18.62	18.69		
CA 5B-30A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B5	10	2563	884.3	LTE B30	10	9620	2355	-	-	-	-	-	-	18.61	18.69		
CA 2A-2A-4A-5A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	18.30	18.69	
CA 2A-4A-5A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2563	2593	-	-	-	18.71	18.69	
CA 2A-5A-7C	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	-	-	-	18.18	18.69	
CA 2A-5A-4B-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B66	20	66786	2145	-	-	-	18.49	18.69	
CA 2A-5A-4B-C	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	-	-	-	18.14	18.69	
CA 2A-5B-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B5	10	2563	884.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	-	-	18.14	18.69	
CA 5A-7A-66A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B7	20	3100	2655	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	18.29	18.69	
CA 5A-4B-C-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B66	20	66786	2145	-	-	-	18.79	18.69	
CA 5A-4B-C	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	-	-	-	18.63	18.69	
CA 5A-66A-66B	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B66	20	66786	2145	LTE B66	15	67261	2192.5	LTE B66	5	67168	2163.2	-	-	-	18.31	18.69	
CA 5A-66A-66C	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	LTE B66	20	67336	2192.2	-	-	-	18.33	18.69	
CA 2A-2A-5A-30A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9620	2355	LTE B66	20	66786	2145	18.46	18.69
CA 2A-2A-5A-66A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.66	18.69
CA 2A-2A-5A-66B	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	10	66786	2145	LTE B66	5	66879	2164.3	18.60	18.69
CA 2A-2A-5A-66C	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	18.52	18.69
CA 2A-5A-7A-7A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B7	20	2850	2630	LTE B2	20	900	1960	LTE B7	20	3152	2660.2	LTE B66	20	66536	2120	18.59	18.69
CA 2A-5A-30A-66A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B30	10	9620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.49	18.69
CA 2A-5A-4B-66A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.40	18.69
CA 5A-7C-66A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.50	18.69
CA 5A-4B-C-66A-66A	LTE B5	5	20625	846.5	16QAM	1	12	2625	891.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B66	20	66786	2145	LTE B66	20	67236	2190	18.40	18.69

G.2.6 LTE Band 26 as PCC

Table G-8
Maximum Output Powers

	PCC										SCC 1			SCC 2			Power		
Combination	PCC Band	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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 7A-26A	LTE B26	5	26715	816.5	QPSK	1	12	8715	861.5	LTE B7	20	3100	2655	-	-	-	-	18.54	18.63
CA 25A-26A	LTE B26	5	26715	816.5	QPSK	1	12	8715	861.5	LTE B25	20	8365	1962.5	-	-	-	-	18.52	18.63
CA 26A-41A	LTE B26	5	26715	816.5	QPSK	1	12	8715	861.5	LTE B41	20	40620	2593	-	-	-	-	18.57	18.63
CA 7A-7A-26A	LTE B26	5	26715	816.5	QPSK	1	12	8715	861.5	LTE B7	20	3100	2655	LTE B7	20	2850	2630	18.47	18.63
CA 25A-25A-26A	LTE B26	5	26715	816.5	QPSK	1	12	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1965	18.54	18.63
CA 26A-41C	LTE B26	5	26715	816.5	QPSK	1	12	8715	861.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	18.56	18.63

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G.2.10 LTE Band 7 as PCC

Table G-12
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	SCC 1			SCC 2			SCC 3			SCC 4			Power		
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset		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	LTE Single Carrier Tx Power (dBm)	
CA 5A-7A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B6	10	2525	881.5	-	-	-	-	-	-	-	14.03	13.96	
CA 7A-26A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B25	15	8805	870.5	-	-	-	-	-	-	-	14.08	13.96	
CA 7A-28A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B25	10	9715	722.5	-	-	-	-	-	-	-	14.06	13.96	
CA 7B	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	9256	2670.6	-	-	-	-	-	-	-	13.91	13.96	
CA 4A-4A-7A (1)	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B4	20	2175	2132.5	LTE B4	10	2390	2150	-	-	-	-	13.45	13.96
CA 7A-7A-26A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	2850	2630	LTE B25	15	8805	881.5	-	-	-	-	13.42	13.96
CA 2A-4A-7A-7A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	2850	2630	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	13.46	13.96
CA 2A-4A-7A-12A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5095	797.6	13.72	13.96
CA 2A-4A-7C	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	3256	2670.6	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	13.67	13.96
CA 2A-7C-13A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	3256	2670.6	LTE B2	20	900	1960	LTE B13	10	5230	751	13.68	13.96
CA 2A-7C-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	3256	2670.6	LTE B2	20	900	1960	LTE B66	20	66786	2145	13.71	13.96
CA 5A-7A-66A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B6	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	13.70	13.96
CA 7A-7A-25A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	2850	2630	LTE B25	20	6365	1962.5	LTE B66	20	67236	2190	13.81	13.96
CA 2A-2A-7A-12A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B2	20	900	1960	LTE B2	20	700	1840	LTE B12	10	5095	797.5	13.65	13.96
CA 2A-2A-7A-66A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B2	20	900	1960	LTE B2	20	700	1840	LTE B66	20	67236	2190	13.62	13.96
CA 2A-2A-7A-66A-71A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B2	20	900	1960	LTE B2	20	700	1840	LTE B66	20	67236	2190	13.48	13.96
CA 2A 5A 7A 7A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B7	20	3100	2655	13.60	13.96
CA 2A-7A-7A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	2850	2630	LTE B2	20	900	1960	LTE B12	20	4390	761	13.59	13.96
CA 2A-7A-7A-66A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	2850	2630	LTE B2	20	900	1960	LTE B66	20	66786	2145	13.59	13.96
CA 5A-7C-66A-66A	LTE B7	10	21400	2565	64QAM	1	0	3400	2685	LTE B7	20	3216	2670.6	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	13.65	13.96

G.2.11 LTE Band 41 as PCC

Table G-13
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	SCC 1			SCC 2			SCC 3			SCC 4			Power						
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset		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 5A-41A	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B6	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	15.51	15.52		
CA 41A-41A (1)	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	15.54	15.52		
CA 41A-41C	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	41490	2680	LTE B41	20	41490	2680	-	-	-	-	-	-	15.50	15.52		
CA 41C-41A	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	40818	2612.8	LTE B41	20	41490	2680	-	-	-	-	-	-	15.53	15.52		
CA 41A-41D	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	41064	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	15.50	15.52		
CA 41D-41A	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	LTE B41	20	41490	2680	-	-	15.51	15.52		
CA 41C-41C	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	15.50	15.52		
CA 41C-41D	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	LTE B41	20	41292	2660.2	-	-	15.47	15.52		
CA 41D-41C	LTE B41	20	40620	2593	QPSK	50	50	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	15.48	15.52

G.2.12 LTE Band 48 as PCC

Table G-14
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	SCC 1			SCC 2			SCC 3			Power					
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset		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-48A	LTE B48	20	55773	3603.3	16QAM	1	0	55773	3603.3	LTE B48	20	56640	3690	-	-	-	-	-	-	-	13.59	13.62	
CA 48B	LTE B48	10	55757	3601.7	QPSK	1	49	55757	3601.7	LTE B48	10	55956	3611.6	-	-	-	-	-	-	-	13.52	13.57	
CA 48A-48C	LTE B48	20	55773	3603.3	16QAM	1	50	55773	3603.3	LTE B48	20	56640	3690	LTE B48	20	56442	3670.2	-	-	-	13.66	13.62	
CA 48C-48A	LTE B48	20	55773	3603.3	16QAM	1	50	55773	3603.3	LTE B48	20	55971	3623.1	LTE B48	20	56640	3690	-	-	-	13.63	13.62	
CA 48D	LTE B48	20	55773	3603.3	16QAM	1	50	55773	3603.3	LTE B48	20	55971	3623.1	LTE B48	20	56169	3642.9	-	-	-	13.57	13.62	
CA 48E	LTE B48	20	55773	3603.3	16QAM	1	50	55773	3603.3	LTE B48	20	55971	3623.1	LTE B48	20	56169	3642.9	LTE B48	20	56367	3662.7	13.65	13.62

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G.3 DLCA 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.

G.3.1 LTE 4x4 MIMO DL Standalone Powers

Table G-15
Maximum Output Powers Ant 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]
7	10	21400	2565	64QAM	1	0	14.21	13.96	13.5
30	5	27710	2310	16QAM	1	12	13.35	13.73	13.5
41	20	40620	2593	QPSK	50	50	15.55	15.52	15.5

Table G-16
Maximum Output Powers Ant 3a

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]
25	5	26665	1912.5	256QAM	1	12	14.15	13.93	13.6

Table G-17
Maximum Output Powers Ant 3b

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	20	55773	3603.3	16QAM	1	50	13.70	13.62	13.5

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Table G-18
Maximum Output Powers Ant 4

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	14.93	14.70	14.5

G.3.1 LTE Band 71 as PCC

Table G-19
Maximum Output Powers

Combination	PCB Band	PCB BW [MHz]	PCF (UL) Freq. [MHz]	Mod. [QAM]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power	
					PCF UL RB Offset	PCF UL RB Offset	PCF (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with UL CA (dBm)	LTE Single Carrier Tx Power (dBm)				
CA {4A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B40	20	55900	3625	4x4	-	-	-	-	-	-	-	-	20.25	20.55	
CA {2A} {4A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	20.25	20.55
CA {4A} {4A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2360	2350	4x4	-	-	-	-	20.26	20.55
CA {2A} {66A} {66A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B2	20	900	1960	4x4	LTE B06	20	66786	2145	4x4	LTE B06	20	67236	2100	20.20	20.55
CA {2A} {66A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B2	20	900	1960	4x4	LTE B06	20	66786	2145	4x4	LTE B06	20	66786	2145	20.16	20.55
CA {2A} {2A} {66A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1400	4x4	LTE B7	20	3100	2055	20.44	20.55
CA {2A} {2A} {66A} 71A	LTE B71	5	131417	66S.5	16QAM	1	12	68011	619.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1400	4x4	LTE B06	20	66786	2145	20.44	20.55

G.3.2 LTE Band 12 as PCC

Table G-20
Maximum Output Powers

[illegible]

G.3.3 LTE Band 13 as PCC

Table G-21
Maximum Output Powers

Combination	PCB 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] Ch.	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 (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [2A] [4A] [3A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B12	20	5090	1980	4x4	LTE B4	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4	20	2175	2325	4x4	LTE B4	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175	2325	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A] [3A] [4A]	LTE B13	10	23230	782	16QAM	1	25	5230	751	2x2	LTE B4B	20	5090	1980	4x4	LTE B4B	20	2175															

G.3.4 LTE Band 14 as PCC

Table G-22
Maximum Output Powers

Combination		PCC										SCC 1										SCC 2										SCC 3										SCC 4										Power	
		PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL# R8	PCC UL# R8 Offset	PCC [DL] Ch.	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 [UL] 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 CA Comb. (dBm)	LTE Single Carrier Tx Power (dBm)															
CA [2A] [2A] [4A] [6A] [6A]	LTE E14	10	23330	793	10QAM	1	49	5330	763	2x2	LTE E12	20	900	1960	4x4	LTE E12	20	700	1940	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	19.14	19.16											
CA [2A] [2A] [4A] [6A] [6A]	LTE E14	10	23330	793	10QAM	1	49	5330	763	2x2	LTE E12	20	900	1960	4x4	LTE E12	20	700	1940	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	19.14	19.16											
CA [2A] [2A] [4A] [6A] [6A]	LTE E14	10	23330	793	10QAM	1	49	5330	763	2x2	LTE E12	20	900	1960	4x4	LTE E12	20	700	1940	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	19.14	19.16											
CA [2A] [2A] [4A] [6A] [6A]	LTE E14	10	23330	793	10QAM	1	49	5330	763	2x2	LTE E12	20	900	1960	4x4	LTE E12	20	700	1940	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	19.14	19.16											
CA [2A] [2A] [4A] [6A] [6A]	LTE E14	10	23330	793	10QAM	1	49	5330	763	2x2	LTE E12	20	900	1960	4x4	LTE E12	20	700	1940	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	LTE E12	20	900	1960	4x4	19.14	19.16											

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