

APPENDIX K: LTE DOWNLINK CARRIER AGGREGATION TEST REDUCTION METHODOLOGY

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table K-1 – Example of Exclusion Table for SISO Configurations

Index	BCC	Supported Channel Bandwidth (MHz)				Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3	CC4		
CCC#1	CA_2A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#2	CA_2A-5A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#3	CA_2A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#4	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#5	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#6	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#7	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#8	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#9	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#10	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#11	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#12	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#13	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#14	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#15	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#16	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#17	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#18	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#19	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#20	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#21	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#22	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#23	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#24	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#25	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#26	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#27	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#28	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#29	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#30	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#31	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#32	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#33	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#34	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#35	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#36	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#37	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#38	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#39	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#40	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#41	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#42	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#43	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#44	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#45	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#46	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#47	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#48	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#49	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#50	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#51	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#52	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#53	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#54	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#55	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#56	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#57	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#58	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#59	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#60	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#61	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#62	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#63	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#64	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#65	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#66	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#67	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#68	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#69	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#70	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#71	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#72	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#73	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#74	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#75	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#76	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#77	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#78	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#79	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#80	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#81	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#82	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#83	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#84	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#85	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#86	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#87	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#88	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#89	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#90	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#91	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#92	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#93	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#94	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#95	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#96	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#97	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#98	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#99	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No
CCC#100	CA_2A-5A-12A	5, 10, 15, 20	5, 10, 15, 20				No

Table K-2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

Index	2CC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset
		CC1	CC2		
CCC#M1	CA_2C1	5, 10, 15, 20	5, 10, 15, 20	CCC#M6	No
CCC#M2	CA_2A13A	5, 10, 15, 20	5, 10, 15, 20	CCC#M7	No
CCC#M3	CA_2A12A	5, 10, 15, 20	5, 10, 15, 20	CCC#M8	No
CCC#M4	CA_2A14A2	5, 10, 15, 20	5, 10, 15, 20	CCC#M9	No
CCC#M5	CA_2A14A4	5, 10, 15, 20	5, 10, 15, 20	CCC#M10	No
CCC#M6	CA_2A15A	5, 10, 15, 20	5, 10	CCC#M11	No
CCC#M7	CA_2A12A1	5, 10, 15, 20	5, 10	CCC#M12	No
CCC#M8	CA_2A13A	5, 10, 15, 20	10	CCC#M13	No
CCC#M9	CA_2A13A	5, 10	5, 10	CCC#M14	No
CCC#M10	CA_2A129A2	5, 10, 15, 20	5, 10	B29 SC Only	CCC#M12
CCC#M11	CA_2A13A	5, 10, 15, 20	5, 10	CCC#M15	No
CCC#M12	CA_2A146A2	5, 10, 15, 20	5, 10, 15, 20	CCC#M16	No
CCC#M13	CA_2A166A2	5, 10, 15, 20	5, 10, 15, 20	CCC#M17	No
CCC#M14	CA_2A166A4	5, 10, 15, 20	5, 10, 15, 20	CCC#M18	No
CCC#M15	CA_2A171A	5, 10, 15, 20	5, 10, 15, 20	CCC#M19	No
CCC#M16	CA_5A16A	5, 10, 15, 20	5, 10	CCC#M20	No
CCC#M17	CA_13A16A4	5, 10, 15, 20	5, 10, 15, 20	CCC#M21	No
CCC#M18	CA_13A16A	5, 10	5, 10, 15, 20	CCC#M22	No
CCC#M19	CA_30A16A	5, 10	5, 10, 15, 20	CCC#M23	No
CCC#M20	CA_15A16A	5, 10, 15, 20	5, 10, 15, 20	CCC#M24	No
CCC#M21	CA_166C	5, 10, 15, 20	5, 10, 15, 20	CCC#M25	No
CCC#M22	CA_166A_66A	5, 10, 15, 20	5, 10, 15, 20	CCC#M26	No
CCC#M23	CA_166A_166A	5, 10, 15, 20	5, 10, 15, 20	CCC#M27	No

Index	3CC	Supported Channel Bandwidth (MHz)			Restriction	Completely Covered by Measurement Superset
		CC1	CC2	CC3		
CCC#M1	CA_2A12A_6A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M2	CA_2A12A_6A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M3	CA_2A12A_12A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	
CCC#M4	CA_2A12A_13A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	
CCC#M5	CA_2A12A_13A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	
CCC#M6	CA_2A12A_16A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M7	CA_2C1_66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M8	CA_2C1_166A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M9	CA_2A12A_66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M10	CA_2A12A_166A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M11	CA_13A12A_71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M12	CA_2A14A_29A	5, 10, 15, 20	5, 10, 15, 20	5, 10	B29 SC Only	
CCC#M13	CA_2A14A_71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
CCC#M14	CA_13A15A	5, 10, 15, 20	5, 10	5, 10	CCC#M15	
CCC#M15	CA_2A15A_66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	
CCC#M16	CA_2A15A_166A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	
CCC#M17	CA_2A12A_166A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	
CCC#M18	CA_2A113A_66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	
CCC#M19	CA_2A13A_166A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	
CCC#M20	CA_30A_166A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	
CCC#M21	CA_2A166A	5, 10, 15, 20	5, 10, 15	5, 10, 15	CCC#M15	
CCC#M22	CA_2A166B	5, 10, 15, 20	5, 10, 15	5, 10, 15	CCC#M16	
CCC#M23	CA_2A166B	5, 10, 15, 20	5, 10, 15	5, 10, 15	CCC#M17	
CCC#M24	CA_2A166C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC#M18	
CCC#M25	CA_2A166C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC#M19	
CCC#M26	CA_2A166A_66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC#M20	
CCC#M27	CA_2A166A_66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC#M21	
CCC#M28	CA_2A166A_71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC#M22	

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 Section 9.3 and appendix H. 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.

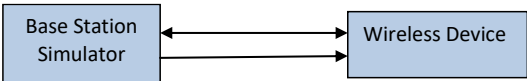


Figure K-1
DL CA Power Measurement Setup

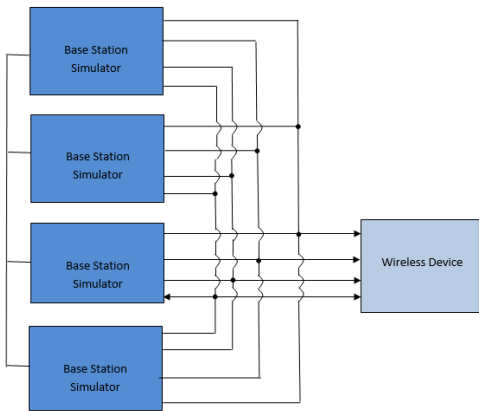


Figure K-2
DL CA with DL 4x4 MIMO Power Measurement Setup

FCC ID: A3LSMF721JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX K: Page 2 of 4

K.2 Downlink Carrier Aggregation RF Conducted Powers

K.2.1 LTE Band 41 as PCC

Table K-3
Maximum Output Powers

Combination	PCC									SCC				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C (1)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	LTE B41	20	40911	2622.1	24.98	25.00

K.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 K.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.

K.3.1 LTE 4x4 MIMO DL Standalone Powers

Table K-4
Maximum Output Powers

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]
41	10	41055	2636.5	QPSK	1	25	24.95	25.00

K.3.2 LTE Band 41 as PCC

Table K-5
Maximum Output Powers

Combination	PCC										SCC				Power		
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C (1)	LTE B41	10	41055	2636.5	QPSK	1	25	41055	2636.5	4x4	LTE B41	20	40911	2622.1	4x4	24.95	25.00

FCC ID: A3LSMF721JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX K: Page 3 of 4

K.4 Additional Downlink Carrier Aggregation with Uplink Carrier Aggregation Enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only CA_41C ULCA active.

K.4.1 Additional 4x4 MIMO DL Carrier Aggregation RF Conducted Powers with Uplink Carrier Aggregation Enabled

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

Table K-6
Maximum Output Powers

Combination	PCC										SCC										Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	1	0	41055	2636.5	4x4	LTE B41	20	40857	2616.7	QPSK	1	99	40857	2616.7	4x4	24.97	25.00

FCC ID: A3LSMF721JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
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