

APPENDIX I: LTE DOWNLINK ONLY 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 I-1 – Exclusion Table for SISO Configurations

CC	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11	CC12	CC13	CC14	CC15	CC16	CC17	CC18	CC19	CC20	CC21	CC22	CC23	CC24	CC25	CC26	CC27	CC28	CC29	CC30	CC31	CC32	CC33	CC34	CC35	CC36	CC37	CC38	CC39	CC40	CC41	CC42	CC43	CC44	CC45	CC46	CC47	CC48	CC49	CC50	CC51	CC52	CC53	CC54	CC55	CC56	CC57	CC58	CC59	CC60	CC61	CC62	CC63	CC64	CC65	CC66	CC67	CC68	CC69	CC70	CC71	CC72	CC73	CC74	CC75	CC76	CC77	CC78	CC79	CC80	CC81	CC82	CC83	CC84	CC85	CC86	CC87	CC88	CC89	CC90	CC91	CC92	CC93	CC94	CC95	CC96	CC97	CC98	CC99	CC100	CC101	CC102	CC103	CC104	CC105	CC106	CC107	CC108	CC109	CC110	CC111	CC112	CC113	CC114	CC115	CC116	CC117	CC118	CC119	CC120	CC121	CC122	CC123	CC124	CC125	CC126	CC127	CC128	CC129	CC130	CC131	CC132	CC133	CC134	CC135	CC136	CC137	CC138	CC139	CC140	CC141	CC142	CC143	CC144	CC145	CC146	CC147	CC148	CC149	CC150	CC151	CC152	CC153	CC154	CC155	CC156	CC157	CC158	CC159	CC160	CC161	CC162	CC163	CC164	CC165	CC166	CC167	CC168	CC169	CC170	CC171	CC172	CC173	CC174	CC175	CC176	CC177	CC178	CC179	CC180	CC181	CC182	CC183	CC184	CC185	CC186	CC187	CC188	CC189	CC190	CC191	CC192	CC193	CC194	CC195	CC196	CC197	CC198	CC199	CC200	CC201	CC202	CC203	CC204	CC205	CC206	CC207	CC208	CC209	CC210	CC211	CC212	CC213	CC214	CC215	CC216	CC217	CC218	CC219	CC220	CC221	CC222	CC223	CC224	CC225	CC226	CC227	CC228	CC229	CC230	CC231	CC232	CC233	CC234	CC235	CC236	CC237	CC238	CC239	CC240	CC241	CC242	CC243	CC244	CC245	CC246	CC247	CC248	CC249	CC250	CC251	CC252	CC253	CC254	CC255	CC256	CC257	CC258	CC259	CC260	CC261	CC262	CC263	CC264	CC265	CC266	CC267	CC268	CC269	CC270	CC271	CC272	CC273	CC274	CC275	CC276	CC277	CC278	CC279	CC280	CC281	CC282	CC283	CC284	CC285	CC286	CC287	CC288	CC289	CC290	CC291	CC292	CC293	CC294	CC295	CC296	CC297	CC298	CC299	CC300	CC301	CC302	CC303	CC304	CC305	CC306	CC307	CC308	CC309	CC310	CC311	CC312	CC313	CC314	CC315	CC316	CC317	CC318	CC319	CC320	CC321	CC322	CC323	CC324	CC325	CC326	CC327	CC328	CC329	CC330	CC331	CC332	CC333	CC334	CC335	CC336	CC337	CC338	CC339	CC340	CC341	CC342	CC343	CC344	CC345	CC346	CC347	CC348	CC349	CC350	CC351	CC352	CC353	CC354	CC355	CC356	CC357	CC358	CC359	CC360	CC361	CC362	CC363	CC364	CC365	CC366	CC367	CC368	CC369	CC370	CC371	CC372	CC373	CC374	CC375	CC376	CC377	CC378	CC379	CC380	CC381	CC382	CC383	CC384	CC385	CC386	CC387	CC388	CC389	CC390	CC391	CC392	CC393	CC394	CC395	CC396	CC397	CC398	CC399	CC400	CC401	CC402	CC403	CC404	CC405	CC406	CC407	CC408	CC409	CC410	CC411	CC412	CC413	CC414	CC415	CC416	CC417	CC418	CC419	CC420	CC421	CC422	CC423	CC424	CC425	CC426	CC427	CC428	CC429	CC430	CC431	CC432	CC433	CC434	CC435	CC436	CC437	CC438	CC439	CC440	CC441	CC442	CC443	CC444	CC445	CC446	CC447	CC448	CC449	CC450	CC451	CC452	CC453	CC454	CC455	CC456	CC457	CC458	CC459	CC460	CC461	CC462	CC463	CC464	CC465	CC466	CC467	CC468	CC469	CC470	CC471	CC472	CC473	CC474	CC475	CC476	CC477	CC478	CC479	CC480	CC481	CC482	CC483	CC484	CC485	CC486	CC487	CC488	CC489	CC490	CC491	CC492	CC493	CC494	CC495	CC496	CC497	CC498	CC499	CC500	CC501	CC502	CC503	CC504	CC505	CC506	CC507	CC508	CC509	CC510	CC511	CC512	CC513	CC514	CC515	CC516	CC517	CC518	CC519	CC520	CC521	CC522	CC523	CC524	CC525	CC526	CC527	CC528	CC529	CC530	CC531	CC532	CC533	CC534	CC535	CC536	CC537	CC538	CC539	CC540	CC541	CC542	CC543	CC544	CC545	CC546	CC547	CC548	CC549	CC550	CC551	CC552	CC553	CC554	CC555	CC556	CC557	CC558	CC559	CC560	CC561	CC562	CC563	CC564	CC565	CC566	CC567	CC568	CC569	CC570	CC571	CC572	CC573	CC574	CC575	CC576	CC577	CC578	CC579	CC580	CC581	CC582	CC583	CC584	CC585	CC586	CC587	CC588	CC589	CC590	CC591	CC592	CC593	CC594	CC595	CC596	CC597	CC598	CC599	CC600	CC601	CC602	CC603	CC604	CC605	CC606	CC607	CC608	CC609	CC610	CC611	CC612	CC613	CC614	CC615	CC616	CC617	CC618	CC619	CC620	CC621	CC622	CC623	CC624	CC625	CC626	CC627	CC628	CC629	CC630	CC631	CC632	CC633	CC634	CC635	CC636	CC637	CC638	CC639	CC640	CC641	CC642	CC643	CC644	CC645	CC646	CC647	CC648	CC649	CC650	CC651	CC652	CC653	CC654	CC655	CC656	CC657	CC658	CC659	CC660	CC661	CC662	CC663	CC664	CC665	CC666	CC667	CC668	CC669	CC670	CC671	CC672	CC673	CC674	CC675	CC676	CC677	CC678	CC679	CC680	CC681	CC682	CC683	CC684	CC685	CC686	CC687	CC688	CC689	CC690	CC691	CC692	CC693	CC694	CC695	CC696	CC697	CC698	CC699	CC700	CC701	CC702	CC703	CC704	CC705	CC706	CC707	CC708	CC709	CC710	CC711	CC712	CC713	CC714	CC715	CC716	CC717	CC718	CC719	CC720	CC721	CC722	CC723	CC724	CC725	CC726	CC727	CC728	CC729	CC730	CC731	CC732	CC733	CC734	CC735	CC736	CC737	CC738	CC739	CC740	CC741	CC742	CC743	CC744	CC745	CC746	CC747	CC748	CC749	CC750	CC751	CC752	CC753	CC754	CC755	CC756	CC757	CC758	CC759	CC760	CC761	CC762	CC763	CC764	CC765	CC766	CC767	CC768	CC769	CC770	CC771	CC772	CC773	CC774	CC775	CC776	CC777	CC778	CC779	CC780	CC781	CC782	CC783	CC784	CC785	CC786	CC787	CC788	CC789	CC790	CC791	CC792	CC793	CC794	CC795	CC796	CC797	CC798	CC799	CC800	CC801	CC802	CC803	CC804	CC805	CC806	CC807	CC808	CC809	CC810	CC811	CC812	CC813	CC814	CC815	CC816	CC817	CC818	CC819	CC820	CC821	CC822	CC823	CC824	CC825	CC826	CC827	CC828	CC829	CC830	CC831	CC832	CC833	CC834	CC835	CC836	CC837	CC838	CC839	CC840	CC841	CC842	CC843	CC844	CC845	CC846	CC847	CC848	CC849	CC850	CC851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Year	Month	Day	Time	Location	Activity	Notes
2023	Jan	1	08:00	Room 101	Classroom	First day of school
2023	Jan	2	08:00	Room 101	Classroom	
2023	Jan	3	08:00	Room 101	Classroom	
2023	Jan	4	08:00	Room 101	Classroom	
2023	Jan	5	08:00	Room 101	Classroom	
2023	Jan	6	08:00	Room 101	Classroom	
2023	Jan	7	08:00	Room 101	Classroom	
2023	Jan	8	08:00	Room 101	Classroom	
2023	Jan	9	08:00	Room 101	Classroom	
2023	Jan	10	08:00	Room 101	Classroom	
2023	Jan	11	08:00	Room 101	Classroom	
2023	Jan	12	08:00	Room 101	Classroom	
2023	Jan	13	08:00	Room 101	Classroom	
2023	Jan	14	08:00	Room 101	Classroom	
2023	Jan	15	08:00	Room 101	Classroom	
2023	Jan	16	08:00	Room 101	Classroom	
2023	Jan	17	08:00	Room 101	Classroom	
2023	Jan	18	08:00	Room 101	Classroom	
2023	Jan	19	08:00	Room 101	Classroom	
2023	Jan	20	08:00	Room 101	Classroom	
2023	Jan	21	08:00	Room 101	Classroom	
2023	Jan	22	08:00	Room 101	Classroom	
2023	Jan	23	08:00	Room 101	Classroom	
2023	Jan	24	08:00	Room 101	Classroom	
2023	Jan	25	08:00	Room 101	Classroom	
2023	Jan	26	08:00	Room 101	Classroom	
2023	Jan	27	08:00	Room 101	Classroom	
2023	Jan	28	08:00	Room 101	Classroom	
2023	Jan	29	08:00	Room 101	Classroom	
2023	Jan	30	08:00	Room 101	Classroom	
2023	Jan	31	08:00	Room 101	Classroom	
2023	Feb	1	08:00	Room 101	Classroom	
2023	Feb	2	08:00	Room 101	Classroom	
2023	Feb	3	08:00	Room 101	Classroom	
2023	Feb	4	08:00	Room 101	Classroom	
2023	Feb	5	08:00	Room 101	Classroom	
2023	Feb	6	08:00	Room 101	Classroom	
2023	Feb	7	08:00	Room 101	Classroom	
2023	Feb	8	08:00	Room 101	Classroom	
2023	Feb	9	08:00	Room 101	Classroom	
2023	Feb	10	08:00	Room 101	Classroom	
2023	Feb	11	08:00	Room 101	Classroom	
2023	Feb	12	08:00	Room 101	Classroom	
2023	Feb	13	08:00	Room 101	Classroom	
2023	Feb	14	08:00	Room 101	Classroom	
2023	Feb	15	08:00	Room 101	Classroom	
2023	Feb	16	08:00	Room 101	Classroom	
2023	Feb	17	08:00	Room 101	Classroom	
2023	Feb	18	08:00	Room 101	Classroom	
2023	Feb	19	08:00	Room 101	Classroom	
2023	Feb	20	08:00	Room 101	Classroom	
2023	Feb	21	08:00	Room 101	Classroom	
2023	Feb	22	08:00	Room 101	Classroom	
2023	Feb	23	08:00	Room 101	Classroom	
2023	Feb	24	08:00	Room 101	Classroom	
2023	Feb	25	08:00	Room 101	Classroom	
2023	Feb	26	08:00	Room 101	Classroom	
2023	Feb	27	08:00	Room 101	Classroom	
2023	Feb	28	08:00	Room 101	Classroom	
2023	Feb	29	08:00	Room 101	Classroom	
2023	Mar	1	08:00	Room 101	Classroom	
2023	Mar	2	08:00	Room 101	Classroom	
2023	Mar	3	08:00	Room 101	Classroom	
2023	Mar	4	08:00	Room 101	Classroom	
2023	Mar	5	08:00	Room 101	Classroom	
2023	Mar	6	08:00	Room 101	Classroom	
2023	Mar	7	08:00	Room 101	Classroom	
2023	Mar	8	08:00	Room 101	Classroom	
2023	Mar	9	08:00	Room 101	Classroom	
2023	Mar	10	08:00	Room 101	Classroom	
2023	Mar	11	08:00	Room 101	Classroom	
2023	Mar					

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I.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 the RF Conducted Powers Section and LTE/NR Lower Bandwidth RF Conducted Power 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.

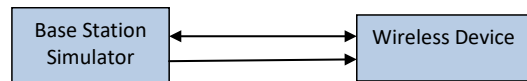


Figure I-1
DL CA Power Measurement Setup

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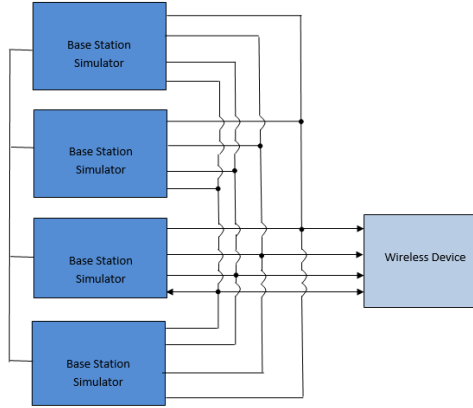


Figure I-2
DL CA with DL 4x4 MIMO Power Measurement Setup

I.2 Downlink Carrier Aggregation RF Conducted Powers

I.2.1 LTE Band 71 as PCC

Table I-3
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			SCC 2			SCC 3			Power				
				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 4A-4A-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	24.15	24.26
CA 4B-4B-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B4B	20	55990	3625	LTE B4B	20	56640	3690	-	-	-	-	24.18	24.26
CA 4B-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	-	-	-	-	24.20	24.26
CA 2A-6A-66A-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.31	24.26
CA 2A-6B-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66994	2164.8	24.34	24.26
CA 2A-2A-4A-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	24.35	24.26
CA 2A-2A-6A-71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	24.33	24.26

I.2.2 LTE Band 12 as PCC

Table I-4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	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 2A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	24.46	24.66
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.44	24.66
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	24.44	24.66
CA 12A-25A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	24.45	24.66
CA 12A-48A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4B	20	55990	3625	-	-	-	-	-	-	-	-	24.52	24.66
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	24.51	24.66
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	24.51	24.66
CA 12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	5	5083	736.3	-	-	-	-	-	-	-	-	24.56	24.64
CA 12A-4B	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	-	-	-	-	24.64	24.66
CA 2A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	24.66	24.64
CA 2A-4A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.53	24.66
CA 2A-12A-6B-71A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66994	2164.8	24.50	24.66
CA 2A-2A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	24.46	24.66
CA 2A-2A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	24.42	24.66
CA 2A-2A-12A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B2	5	5155	743.5	LTE B2	20	900	1960	LTE B12	20	700	1940	24.59	24.64
CA 2C-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	24.60	24.66
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	24.43	24.66
CA 4A-4A-12A-12A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	5	5155	743.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.59	24.64
CA 4A-4A-12B	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.63	24.64
CA 12A-4B	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	24.63	24.66
CA 2A-12B-66A-66A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B66	20	66786	2145	24.55	24.64
CA 2A-2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	24.50	24.66
CA 2A-2A-12B-66A	LTE B12	5	23035	701.5	QPSK	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	24.64	24.64

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I.2.3 LTE Band 13 as PCC

Table I-5
Maximum Output Powers

PCC										SCC 1				SCC 2				SCC 3				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]	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-13A (2)	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	24.18	24.31
CA 2A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	24.18	24.20
CA 2A-13A-48A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B4B	20	55990	3625	-	-	-	-	-	24.24	24.31
CA 4A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	-	24.14	24.20
CA 13A-48A-48A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	55640	3690	-	-	-	-	-	24.25	24.31
CA 13A-48B	LTE B13	6	23230	782	QPSK	1	12	5230	751	LTE B4B	10	55990	3625	LTE B4B	10	56069	3634.9	-	-	-	-	-	24.30	24.31
CA 2A-13A-48C	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	24.24	24.31	
CA 13A-48A-66A-66A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B6B	20	66786	2145	LTE B6B	20	67236	2160	24.22	24.31	
CA 13A-48A-66B	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B6B	15	66786	2145	LTE B6B	5	66879	2154.3	24.17	24.31	
CA 13A-48A-66C	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B6B	20	66786	2145	LTE B6B	20	66984	2164.8	24.19	24.31	
CA 13A-48C-66A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B6B	20	66786	2145	24.16	24.31	
CA 13A-48A-48C	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	55340	3550	LTE B4B	20	55538	3579.8	24.31	24.31	
CA 2A-13A-48D	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	24.24	24.31	
CA 2A-13A-66A-66B	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	5	67168	2183.2	24.22	24.31	
CA 2A-13A-66A-66C	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	20	67038	2170.2	24.21	24.31	
CA 2A-13A-66D	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B6B	20	66786	2145	LTE B6B	20	66984	2164.8	24.19	24.31	
CA 2A-2A-13A-66A-66A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	20	66786	2145	24.21	24.31	
CA 2A-2A-13A-66B	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6B	15	66786	2145	24.20	24.31	
CA 13A-48D-66A	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	24.23	24.31	
CA 13A-48A-48D	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	55340	3560	LTE B4B	20	55538	3579.8	24.21	24.31	
CA 13A-48C-48C	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	55340	3560	24.25	24.31	
CA 13A-48E	LTE B13	5	23230	782	QPSK	1	12	5230	751	LTE B4B	20	55990	3625	LTE B4B	20	56188	3644.8	LTE B4B	20	56386	3664.6	24.26	24.31	

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I.2.4 LTE Band 14 as PCC

Table I-6
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				Power	
				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 2A-2A-14A-30A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	23.85	24.16
CA 14A-30A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	23.90	24.16
CA 14A-66A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B66	20	66786	2145	LTE B66	20	66536	2120	LTE B66	20	67236	2190	23.91	24.16
CA 2A-2A-14A-66A-66A	LTE B14	5	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	24.17	24.16

I.2.5 LTE Band 5 as PCC

Table I-7
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				Power	
				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 5A-25A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	24.49	24.48
CA 5A-41A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	24.45	24.48
CA 5A-5A (1)	LTE B5	3	20525	836.5	QPSK	1	7	2525	881.5	LTE B5	5	2425	871.5	-	-	-	-	-	-	-	-	24.37	24.42
CA 5B (1)	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	5	2485	877.6	-	-	-	-	-	-	-	-	24.47	24.48
CA 2A-5A-48A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55980	3625	-	-	-	-	24.37	24.48
CA 2A-4A-5B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	24.48	24.48
CA 2A-4A-5A-5A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.43	24.48
CA 2A-5A-48C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55940	3690	LTE B48	20	55442	3670.2	24.45	24.48
CA 2A-5A-5A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	5	2425	871.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	24.50	24.48
CA 2A-5B-30A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B30	10	9820	2355	24.47	24.48
CA 2A-5B-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	24.47	24.48
CA 2A-4A-48C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	55940	3690	LTE B48	20	55442	3670.2	24.46	24.48
CA 2A-2A-4A-5A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	24.43	24.48
CA 2A-2A-5A-30A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	24.45	24.48
CA 2A-5A-30A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	24.37	24.48
CA 4A-4A-5B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.47	24.48
CA 5A-48A-66A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.50	24.48
CA 5A-48A-66A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B48	20	55990	3625	LTE B66	20	66786	2145	LTE B66	20	67236	2190	24.51	24.48
CA 5A-48C-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B48	20	55980	3625	LTE B48	20	55188	3644.8	LTE B66	5	66978	2154.3	24.52	24.48
CA 5A-66A-66B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B66	20	66786	2145	LTE B66	15	67261	2192.5	LTE B66	5	67168	2183.2	24.47	24.48
CA 5A-66A-66C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	LTE B66	20	67038	2170.2	24.45	24.48
CA 5A-6B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	LTE B6	20	66588	2125.2	24.48	24.48
CA 5A-5A-66B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	5	2425	871.5	LTE B66	15	66786	2145	LTE B66	5	66978	2154.3	24.52	24.48
CA 5A-5A-66C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	5	2425	871.5	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	24.49	24.48
CA 5B-30A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B30	10	9820	2355	LTE B66	20	66786	2145	24.41	24.48
CA 2A-5A-48D	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.49	24.48
CA 2A-5A-5A-66A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	5	2425	871.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	24.49	24.48
CA 2A-5B-66A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	24.47	24.48
CA 2A-5B-66B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B66	15	66786	2145	24.42	24.48
CA 2A-5B-66C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	24.50	24.48
CA 2A-2A-5A-66A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	24.48	24.48
CA 2A-2A-5A-66B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	15	66786	2145	24.45	24.48
CA 2A-2A-5A-66C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	24.47	24.48
CA 2A-5B-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B2	20	700	1940	24.49	24.48
CA 2A-5B-30A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B2	20	900	1960	LTE B2	20	702	1940.2	24.44	24.48
CA 4A-4A-5B-30A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	24.47	24.48
CA 5A-48D-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.46	24.48
CA 5B-30A-66A-66A	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B30	10	9820	2355	LTE B66	20	66786	2145	24.47	24.48
CA 5B-66A-66B	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B66	20	66786	2145	LTE B66	5	67168	2183.2	24.50	24.48
CA 5B-66A-66C	LTE B5	5	20525	836.5	QPSK	1	12	2525	881.5	LTE B5	10	2453	874.3	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	24.46	24.48

I.2.6 LTE Band 26 as PCC

Table I-8
Maximum Output Powers

Combination	PCC									SCC 1				SCC 2				SCC 3				Power		
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL #B	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 2A-26A	LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	24.41	24.45
CA 26A-41C	LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	-	-	-	-	-	24.46	24.45
CA 26A-26A-41C	LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B25	20	8365	1962.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	24.51	24.45	
CA 26A-26A-26A-41A	LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B25	20	8140	1940	LTE B25	20	8365	1962.5	LTE B41	20	40620	2593	24.48	24.45	
LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B41	20	40422	2573.2	LTE B41	20	40620	2593	LTE B41	20	40918	2611.8	24.46	24.45		
CA 26A-26A-41D	LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B25	15	8365	1962.5	LTE B41	20	40422	2573.2	LTE B41	20	40620	2593	24.48	24.45	
CA 26A-26A-41C	LTE B26	5	27015	846.5	QPSK	1	12	9015	891.5	LTE B25	20	8140	1940	LTE B25	20	8365	1962.5	LTE B41	20	40620	2593	24.49	24.45	

I.2.7

LTE Band 66 as PCC

Table I-9
Maximum Output Powers

PCC					SCC 1					SCC 2					SCC 3					Power			
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch. Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# 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 2A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	24.46	24.63
CA 12A-66A (1)	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	24.46	24.63
CA 12A-66A (2)	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	24.46	24.63
CA 25A-25A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B25	20	8365	1962.5	LTE B25	20	8590	1965	-	-	-	-	24.48	24.63
CA 48B-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B48	10	55990	3625	LTE B48	10	55989	3634.9	-	-	-	-	24.53	24.63
CA 2A-5A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	24.46	24.63
CA 2A-12A-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B2	20	900	1960	LTE B12	10	5095	737.5	24.44	24.63
CA 2A-30A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B30	10	8620	2155	24.47	24.63
CA 2A-48A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B48	20	55990	3625	24.55	24.63
CA 2A-48B-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.55	24.63
CA 2A-66A-66A-71A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B71	20	66761	634.5	24.53	24.63
CA 2A-66C-71A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B2	20	900	1960	LTE B71	20	66761	634.5	24.57	24.63
CA 2A-66A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66536	2120	LTE B66	20	67236	2190	LTE B2	20	700	1940	24.50	24.63
CA 2A-5A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8620	2155	24.55	24.63
CA 2A-2A-66A-71A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B71	20	66761	634.5	24.50	24.63
CA 2C-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	8620	2155	24.44	24.63
CA 5A-30A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B48	20	55990	3625	24.45	24.63
CA 5A-48A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B5	10	2525	881.5	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.46	24.63
CA 5A-66A-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	67218	2189.2	LTE B66	5	67311	2197.5	LTE B5	10	2525	881.5	24.44	24.63
CA 5A-66B-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	66693	2135.7	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	24.47	24.63
CA 5A-66A-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67038	2190.2	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	24.45	24.63
CA 5A-66C-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	24.56	24.63
CA 5A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B66	20	66552	2121.6	LTE B5	10	2525	881.5	24.54	24.63
CA 5A-5A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	24.47	24.63
CA 5A-5B-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	66693	2135.7	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	24.46	24.63
CA 5A-5A-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B5	10	2525	881.5	LTE B5	5	2425	871.5	24.61	24.63
CA 12A-30A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	8620	2155	24.44	24.63
CA 13A-48A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B13	10	5330	751	LTE B48	20	55990	3625	24.43	24.63
CA 13A-48B-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	66693	2135.7	LTE B13	10	5330	751	LTE B48	20	55990	3625	24.44	24.63
CA 13A-48A-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B13	10	5330	751	LTE B48	20	55990	3625	24.45	24.63
CA 13A-48C-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B13	10	5330	751	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.45	24.63
CA 14A-30A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B14	10	5330	763	LTE B30	10	8620	2155	24.46	24.63
CA 14A-66A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66536	2120	LTE B66	20	67236	2190	LTE B30	10	8620	2155	24.47	24.63
CA 20A-30A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B29	10	8715	722.5	LTE B30	10	8620	2155	24.44	24.63
CA 2A-30A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66536	2120	LTE B66	20	67236	2190	LTE B30	10	8620	2155	24.48	24.63
CA 48A-48A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B48	20	55990	3625	LTE B48	20	55340	3560	24.55	24.63
CA 48A-66A-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	66693	2135.7	LTE B48	20	55990	3625	LTE B48	20	55340	3560	24.51	24.63
CA 48A-48A-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B48	20	55990	3625	LTE B48	20	55340	3560	24.59	24.63
CA 48C-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	24.56	24.63
CA 48A-48C-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B48	20	55990	3625	LTE B48	20	55340	3560	LTE B48	20	55386	3664.6	24.55	24.63
CA 2A-5A-5A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	24.60	24.63
CA 2A-5B-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	24.59	24.63
CA 2A-5B-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	66693	2135.7	LTE B2	20	900	1960	LTE B5	10	2525	881.5	24.58	24.63
CA 2A-5B-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66669	2133.3	LTE B2	20	900	1960	LTE B5	10	2525	881.5	24.54	24.63
CA 2A-12B-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	5	5095	737.5	24.53	24.63
CA 2A-2A-13A-66A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	67168	2183.2	LTE B66	15	67261	2192.5	LTE B2	20	900	1960	24.51	24.63
CA 2A-2A-13A-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	66693	2135.7	LTE B66	15	67261	2192.5	LTE B2	20	900	1960	24.50	24.63
CA 2A-2A-13A-66A-66B	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	15	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	24.54	24.63
CA 2A-2A-13A-66C	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	24.56	24.63
CA 2A-2A-5A-66A	LTE B66	5	132322	1745	QPSK	1	0	66786	2145	LTE B66	20	66693	2133.3	LTE B2									

I.2.8

LTE Band 2 as PCC

Table I-10
Maximum Output Powers

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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	L7E Tx Power with DL CA Enabled (dBm)	L7E Single Carrier Tx Power (dBm)	
CA 2A-4A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.43	24.40
CA 2A-12A (1)	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.41	24.40
CA 2A-13A (2)	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	-	-	-	24.37	24.40
CA 2A-26A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B26	15	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.34	24.40
CA 2A-29A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.38	24.40
CA 2A-29A (2)	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.38	24.40
CA 2A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.77	24.40
CA 2A-4A-13A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B13	10	5230	751	-	-	-	-	-	-	-	-	-	24.33	24.40
CA 2A-4A-26A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B26	10	8820	722.5	-	-	-	-	-	-	-	-	-	24.32	24.40
CA 2A-4A-30A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B30	10	9620	2355	-	-	-	-	-	-	-	-	-	24.35	24.40
CA 2A-5A-48A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B5	10	2525	881.5	L7E B48	20	55990	3625	-	-	-	-	-	-	-	-	-	24.30	24.40
CA 2A-13A-48A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B13	10	5230	751	L7E B48	20	55990	3625	-	-	-	-	-	-	-	-	-	24.34	24.40
CA 2A-48A-48A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B48	20	55990	3625	L7E B48	20	56940	3625	-	-	-	-	-	-	-	-	-	24.31	24.40
CA 2A-4A-5B	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B5	10	2525	881.5	L7E B5	5	2453	874.3	24.31	-	-	-	-	24.42	24.40
CA 2A-4A-12B	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B12	5	5047	732.7	L7E B12	5	5047	732.7	24.33	-	-	-	-	24.43	24.40
CA 2A-4A-4A-5A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B4	10	2350	2150	L7E B5	10	2525	881.5	24.38	-	-	-	-	24.39	24.40
CA 2A-4A-4A-12A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B4	20	2175	2132.5	L7E B4	10	2350	2150	L7E B12	10	5095	737.5	24.33	-	-	-	-	24.38	24.40
CA 2A-5A-48C	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B5	10	2525	881.5	L7E B48	20	55990	3625	L7E B48	20	56188	3644.8	24.35	-	-	-	-	24.40	24.40
CA 2A-5A-48C	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B5	10	2525	881.5	L7E B48	20	55990	3625	L7E B48	20	56188	3644.8	24.35	-	-	-	-	24.40	24.40
CA 2A-5A-48A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B5	10	2525	881.5	L7E B5	5	2425	871.5	L7E B66	20	66786	2145	24.31	-	-	-	-	24.40	24.40
CA 2A-5B-30A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B5	10	2525	881.5	L7E B5	5	2453	874.3	L7E B30	10	5620	2355	24.39	-	-	-	-	24.40	24.40
CA 2A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900	1960	L7E B66	20	66786	2145	L7E B66	20	66786	2145	L7E B66	20	66786	2145	24.38	-	-	-	-	24.40	24.40
CA 2A-66A-66A-66A	L7E B2	5	18000	1800	QPSK	1	12	900																				

I.2.10 LTE Band 30 as PCC

Table I-12
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				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)
				Mod.	PCC UL# RB	PCC UL RB Offset																	
CA 2A-4A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	22.08	22.11
CA 2A-5B-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	22.09	22.11
CA 2A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.07	22.11
CA 2A-2A-5A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	22.04	22.11
CA 2A-2A-12A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	22.05	22.11
CA 2A-2A-14A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	22.04	22.11
CA 2A-2A-29A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	22.05	22.11
CA 2A-2A-30A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	22.03	22.11
CA 2C-5A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	LTE B1	10	2525	881.5	22.06	22.11
CA 2C-12A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	LTE B12	10	5095	737.5	22.05	22.11
CA 2C-29A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	LTE B29	10	9716	722.5	22.06	22.11
CA 4A-4A-5A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B5	10	2525	881.5	22.04	22.11
CA 4A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B12	10	5095	737.5	22.06	22.11
CA 4A-4A-29A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B29	10	9716	722.5	22.07	22.11
CA 5A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.05	22.11
CA 12A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.08	22.11
CA 18A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.06	22.11
CA 29A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B29	10	9715	722.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	22.06	22.11
CA 30A-66A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B66	20	66786	2145	LTE B66	20	66536	2120	LTE B66	20	67236	2190	22.08	22.11
CA 2C-5B-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	LTE B5	10	2525	881.5	22.06	22.11
CA 4A-4A-5B-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B5	10	2525	881.5	22.06	22.11
CA 5B-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	22.13	22.11

I.2.11 LTE Band 41 as PCC

Table I-13
Maximum Output Powers

PCC										SCC 1				SCC 2				SCC 3				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]	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 41A-48A	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B48	20	55990	3625	-	-	-	-	-	-	-	-	-	24.47	24.50
CA 41A-48C	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	-	-	-	-	-	24.46	24.50
CA 41A-41A-41A	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	36750	2306	LTE B41	20	40620	2593	-	-	-	-	-	24.45	24.50
CA 41A-48D	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B48	20	55990	3625	LTE B48	20	56188	3644.8	LTE B48	20	56386	3664.6	24.46	24.50	
CA 41A-41A-41C	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	36750	2306	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	24.48	24.50	
CA 41A-41D	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	24.48	24.50	
CA 41D-41A	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	41346	2665.6	LTE B41	20	41148	2645.8	LTE B41	20	39750	2506	24.54	24.50	
CA 41C-41C	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	41346	2665.6	LTE B41	20	39948	2525.8	LTE B41	20	39750	2506	24.48	24.50	
CA 41E	LTE B41	20	41490	2680	QPSK	1	50	41490	2680	LTE B41	20	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	40886	2620.6	24.47	24.48	
CA 41C-41D	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	41346	2665.6	LTE B41	20	40146	2545.6	LTE B41	20	39948	2525.8	24.52	24.50	
CA 41D-41C	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	41346	2665.6	LTE B41	20	41148	2645.8	LTE B41	20	39948	2525.8	24.55	24.50	
CA 41F	LTE B41	10	41490	2680	QPSK	1	49	41490	2680	LTE B41	20	41346	2665.6	LTE B41	20	41348	2645.8	LTE B41	20	40950	2626	24.49	24.50	

I.2.12 LTE Band 48 as PCC

Table I-14
Maximum Output Powers

PCC																			SCC 1				SCC 2				SCC 3				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]	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 48B	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	10	56124	3638.4	-	-	-	-	-	-	-	-	20.54	20.52									
CA 48A-48A-48A	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	55340	3580	LTE B48	20	55980	3625	-	-	-	-	20.55	20.52									
CA 41A-48D	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	56079	3633.9	LTE B48	20	55881	3614.1	LTE B48	20	40620	2593	20.51	20.52									
CA 48C-48C	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	56079	3633.9	LTE B48	20	55340	3580	LTE B48	20	55538	3579.8	20.46	20.52									
CA 48A-48E	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	55340	3580	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	20.56	20.52									
CA 48E-48A	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	56079	3633.9	LTE B48	20	55881	3614.1	LTE B48	20	55529	3588.9	20.52	20.52									
CA 48C-48D	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	56079	3633.9	LTE B48	20	55340	3580	LTE B48	20	55538	3579.8	20.53	20.52									
CA 48D-48C	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	56079	3633.9	LTE B48	20	55881	3614.1	LTE B48	20	56640	3690	20.50	20.52									
CA 48F	LTE B48	10	56223	3648.3	QPSK	1	25	56223	3648.3	LTE B48	20	56079	3633.9	LTE B48	20	55881	3614.1	LTE B48	20	55683	3594.3	20.49	20.52									

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I.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 I.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.

I.3.1 LTE 4x4 MIMO DL Standalone Powers

Table I-15
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]	Target Power [dBm]
66	5	132322	1745	QPSK	1	0	24.57	24.63	24.0
2	5	18900	1880	QPSK	1	12	24.31	24.40	24.0
25	5	26065	1852.5	QPSK	1	12	24.48	24.51	24.0
30	10	27710	2310	QPSK	1	25	22.05	22.11	22.0
41	10	41490	2680	QPSK	1	49	24.54	24.56	24.0
48	10	56223	3648.3	QPSK	1	25	20.45	20.52	19.6

I.3.2 LTE Band 71 as PCC

Table I-16
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	Power	
						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]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		LTE Tx. Power with DL CA Enabled	LTE Single Carrier Tx Power [dBm]
CA [4B] [4B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B48	20	55900	3625	4x4	LTE B48	20	55940	3560	4x4	-	-	-	-	-	24.21	24.26
CA [4B] [71A]	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B48	20	55900	3625	4x4	LTE B48	20	56180	3644.8	4x4	-	-	-	-	-	24.20	24.26
CA [2A] [4A] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	24.22	24.26
CA [2A] [6B] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.15	24.26
CA [2A] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.18	24.26
CA [2A] [2A] [4A] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B4	20	2175	2132.5	4x4	24.21	24.26
CA [2A] [2A] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	24.19	24.26
CA [2A] [6B] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	2x2	24.17	24.26
CA [2A] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	66984	2164.8	2x2	24.15	24.26
CA [2A] [6B] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	24.16	24.26
CA [2A] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	24.17	24.26
CA [2A] [2A] [4A] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	24.15	24.26
CA [2A] [2A] [6B] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	2x2	LTE B66	20	66786	2145	4x4	24.13	24.26
CA [2A] [2A] [4A] 71A	LTE B71	15	133297	680.5	QPSK	1	36	68761	634.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B4	20	2175	2132.5	4x4	24.17	24.26

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I.3.3 LTE Band 12 as PCC

Table I-17
Maximu Output Powers

[illegible]

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LTE Band 13 as PCC

Table I-18
Maximum Output Powers

Combination	LTE Band	PCC					SCC 1					SCC 2					SCC 3					SCC 4					Power		
		PCC BW [MHz]	PCC [DL] Freq. [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC UE1 RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power [dBm]	LTE Single Carrier Tx Power [dBm]			
CA [2A]13A-13A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	4d4	-	-	-	-	-	-	-	-	-	-	-	24.23	24.31	
CA [2A]4A-13A	LTE-B3	10	23230	783	QPSK	-	0	5230	751	2d2	LTE-B2	20	900	1960	4d4	LTE-B4	20	21375	2132.5	4d4	-	-	-	-	-	-	-	24.12	24.20
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	4d4	LTE-B4B	20	53970	5392.5	2d2	-	-	-	-	-	-	-	24.19	24.31
CA [1A]4A-13A	LTE-B3	10	23230	783	QPSK	-	0	5230	751	2d2	LTE-B4	20	1970	1970	4d4	LTE-B4	20	21375	2132.5	4d4	-	-	-	-	-	-	-	24.13	24.20
CA [13A]4B4A (4B4A)	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.31	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.31	24.31
CA [2A]13A-13A	LTE-B3	10	23230	783	QPSK	-	0	5230	751	2d2	LTE-B2	20	900	1960	4d4	LTE-B4	20	21375	2132.5	4d4	-	-	-	-	-	-	-	24.23	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	2d2	LTE-B4B	20	53990	5392.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]4B4A-13A	LTE-B3	10	23230	783	QPSK	-	0	5230	751	2d2	LTE-B4	20	1970	1970	4d4	LTE-B4B	20	53970	5392.5	2d2	-	-	-	-	-	-	-	24.13	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	4d4	LTE-B4B	20	53990	5392.5	2d2	-	-	-	-	-	-	-	24.29	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	2d2	LTE-B4B	20	53990	5392.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	4d4	LTE-B2	20	900	1960	2d2	LTE-B4B	20	53990	5392.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [13A]4B4A (6B4A)	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [13A]4B4A (6B4B)	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [13A]4B4A (6B4B)	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [13A]4B4A (6B4B)	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [13A]4B4A (6B4B)	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	2d2	LTE-B4B	20	53990	5392.5	4d4	-	-	-	-	-	-	-	24.24	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	2d2	LTE-B4B	20	53990	5392.5	4d4	-	-	-	-	-	-	-	24.24	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B2	20	900	1960	4d4	LTE-B4B	20	53990	5392.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B	20	56640	5659.5	4d4	-	-	-	-	-	-	-	24.26	24.31
CA [2A]13A-4B4A	LTE-B3	5	23230	783	QPSK	-	12	5230	751	2d2	LTE-B4B	20	53990	5392.5	4d4	LTE-B4B													

LTE Band 14 as PCC

Table I-19
Maximum Output Powers

Combination	PCC Band	PCC										SCC 1										SCC 2										SCC 3										SCC 4										Power	
		PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Ch.	PCC Freq. [MHz]	Mod.	PCC US RB	PCC US Off.	PCC [UL] Ch.	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Ch.	SCC Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Ch.	SCC Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Ch.	SCC Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Ch.	SCC Freq. [MHz]	DL Ant. Config.	LTE Tx Power [dBm] (w/ DL CA)	LTE Single Carrier Tx Power (dBm)															
CA [2A][2A][14A][50A]	LTE B14	6	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA 14A[2A][2A][14A][50A]	LTE B14	5	23130	793	QPSK	1	0	5330	763	2d2	LTE B12	2d	900	1960	1960	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	LTE B12	2d	700	1940	444	24.74	24.36															
CA																																																					

FCC ID: C3K2077	SAR EVALUATION REPORT	Approved by: Technical Manager
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I.3.6 LTE Band 5 as PCC

Table I-20
Maximum Output Powers

[illegible]

I.3.7 LTE Band 26 as PCC

Table I-21
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	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 with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]								
CA (26A)-26A	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B2	20	800	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.41	24.45					
CA (26A)-26A-16A	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B2	20	800	1960	4x4	LTE B26	20	40780	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.41	24.45			
CA (26A)-26A-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B26	20	8365	1962.5	4x4	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.38	24.45			
CA (26A)-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.46	24.47			
CA (26A)-26A-16A	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B2	20	800	1960	4x4	LTE B26	20	40780	2145	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.41	24.45		
CA (26A)-16A	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B2	20	800	1960	2x2	LTE B26	20	40780	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.37	24.45		
CA (26A)-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.46	24.46		
CA (26A)-26A-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B26	20	8365	1962.5	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	-	-	-	-	-	24.45	24.45	
CA (26A)-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40818	2612.8	4x4	-	-	-	-	-	-	-	-	-	-	-	-	24.47	24.45	
CA (26A)-26A-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B26	20	8365	1962.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	-	-	-	-	-	24.45	24.45	
CA (26A)-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40818	2612.8	4x4	-	-	-	-	-	-	-	-	-	-	-	-	24.46	24.45	
CA (26A)-26A-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B26	20	8365	1962.5	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40818	2612.8	4x4	-	-	-	-	-	-	-	24.45	24.45	
CA (26A)-26A-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B26	20	8365	1962.5	4x4	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	-	-	-	-	-	-	-	24.44	24.45	
CA (26A)-26A-410	LTE B26	5	27015	846.5	QPSK	1	12	8015	891.5	2x2	LTE B26	20	8365	1962.5	4x4	LTE B26	20	8365	1962.5	4x4	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	-	-	-	-	-	-	-	-	24.45	24.45

FCC ID: C3K2077	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Computing Device		APPENDIX I: Page 14 of 18

LTE Band 66 as PCC

Table I-22
Maximum Output Powers

Catholics	2017										2018										2019										2020										Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR		ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR	ECR

FCC ID: C3K2077	SAR EVALUATION REPORT	Approved by: Technical Manager
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I.3.9 LTE Band 2 as PCC

Table I-23
Maximum Output Powers

[illegible]

FCC ID: C3K2077	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Computing Device		APPENDIX I: Page 16 of 18

I.3.10 LTE Band 25 as PCC

Table I-24
Maximum Output Powers

Combination	PCC								SCC 1				SCC 2				SCC 3				SCC 4				Power							
	PCC Band	PCC BW [MHz]	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB Offset	PCC UL [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]						
CA (25A) (25A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B8	10	25.25	881.5	2x2	-	-	-	-	-	-	-	-	-	-	24.41	24.51					
CA (25A) (25B)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B12	10	5095	777.5	2x2	-	-	-	-	-	-	-	-	-	-	24.41	24.51					
CA (25A) (25A) (41A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	444	-	-	-	-	-	24.47	24.51					
CA (25A) (25A) (59A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B99	20	86780	2145	444	-	-	-	-	-	24.45	24.51					
CA (25A) (25A) (25A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B26	20	8145	1940	444	-	-	-	-	-	24.41	24.51					
CA (25A) (25A) (59A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B99	20	86780	2145	2x2	-	-	-	-	-	24.43	24.51					
CA (25A) (25A) (25A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	2x2	LTE B26	20	8145	1940	2x2	-	-	-	-	-	24.46	24.51					
CA (25A) (25A) (25A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B26	20	8145	1940	2x2	-	-	-	-	-	24.45	24.51					
CA (25A) (25A) (25A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	2x2	LTE B26	20	8090	1085	444	LTE B26	20	8145	1940	444	-	-	-	-	-	24.41	24.51					
CA (25A) (25A) (25A)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B26	20	8145	1940	444	-	-	-	-	-	24.44	24.51					
CA (25A) (25A) (41C)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	444	LTE B41	20	40422	2573.2	444	-	24.43	24.51				
CA (25A) (25A) (41C)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	2x2	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	444	LTE B41	20	40422	2573.2	444	-	24.44	24.51				
CA (25A) (25A) (41C)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	-	24.44	24.51				
CA (25A) (25A) (41D)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	15	8895	876.5	2x2	LTE B41	20	40422	2573.2	444	LTE B41	20	40620	2593	444	LTE B41	20	40818	2612.8	444	24.46	24.51
CA (25A) (25A) (41E)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B41	20	40620	2593	444	LTE B41	20	40620	2593	444	LTE B41	20	40620	2593	444	LTE B41	20	40818	2612.8	444	24.45	24.51
CA (25A) (25A) (41D)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B41	20	40422	2573.2	444	LTE B41	20	40620	2593	444	LTE B41	20	40818	2612.8	444	24.47	24.51
CA (25A) (25A) (41D)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	15	8895	876.5	2x2	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	24.43	24.51
CA (25A) (25A) (41E)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	24.43	24.51
CA (25A) (25A) (25A) (41C)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	15	8895	876.5	2x2	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	24.41	24.51
CA (25A) (25A) (41D)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	2x2	LTE B26	20	8090	1085	444	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	24.40	24.51
CA (25A) (41E)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	2x2	LTE B26	15	8895	876.5	2x2	LTE B41	20	40422	2573.2	444	LTE B41	20	40620	2593	444	LTE B41	20	40818	2612.8	444	24.39	24.51
CA (25A) (25A) (25A) (41C)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	2x2	LTE B26	20	8090	1085	2x2	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	444	LTE B41	20	40422	2573.2	444	24.40	24.51
CA (25A) (25A) (41D)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	2x2	LTE B26	20	8090	1085	2x2	LTE B41	20	40422	2573.2	444	LTE B41	20	40620	2593	444	LTE B41	20	40818	2612.8	444	24.41	24.51
CA (25A) (25A) (41C)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B26	20	8090	1085	444	LTE B26	15	8895	876.5	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	24.43	24.51
CA (25A) (41E)	LTE E25	5	26050	182.5	QPSK	1	12	8095	1932.5	444	LTE B41	20	40620	2593	2x2	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40620	2593	2x2	LTE B41	20	40818	2612.8	2x2	24.40	24.51

FCC ID: C3K2077 DUT Type: Portable Computing Device	SAR EVALUATION REPORT	Approved by: Technical Manager
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LTE Band 30 as PCC

Table I-25
Maximum Output Powers

[illegible]

FCC ID: C3K2077	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Computing Device		APPENDIX I: Page 18 of 18

LTE Band 41 as PCC

Table I-26
Maximum Output Powers

[illegible]

FCC ID: C3K2077	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Computing Device		APPENDIX I: Page 19 of 18

I.3.13 LTE Band 48 as PCC

Table I-27
Maximum Output Powers

Combination	PC Band	PC BW [MHz]	PCC				SCC1				SCC2				SCC3				SCC4				LTE Tx Power with SC-FDMA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			PCC [RU] Freq. [MHz]	Mod.	PCC UCI RB	PCC UL RB Offset	PCC [RU] Freq. [MHz]	DA Ant. Config.	SCC Band	SCC BW [MHz]	SCC [RU] Freq. [MHz]	DA Ant. Config.	SCC Band	SCC BW [MHz]	SCC [RU] Freq. [MHz]	DA Ant. Config.	SCC Band	SCC BW [MHz]	SCC [RU] Freq. [MHz]	DA Ant. Config.	SCC Band	SCC BW [MHz]			SCC [RU] Freq. [MHz]	DA Ant. Config.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
CA 14A1 (4A1)	LTE-B40	10	56223	3648.3	QPSK	-	0	56223	3648.3	4-aa	LTE-B40	20	40620	2593	4-aa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

I.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 66B, CA 66C, CA 41C, or CA 48C ULCA active.

I.4.1 Additional DL Carrier Aggregation RF Conducted Powers with Uplink Carrier Aggregation Enabled

Table I-28
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC										SCC 1										SCC 2										Power											
					Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)																				
CA_4B_C4B_A	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	LTE B48	20	56642	3670.2	QPSK	1	99	56642	3670.2	LTE B48	20	53340	2640	24.36	24.36																						
CA_41C_41A	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	39750	2506	24.51	24.52																						
CA_41D	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	41094	2640.4	24.53	24.52																						
CA_4B_D	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	LTE B48	20	56642	3670.2	QPSK	1	99	56642	3670.2	LTE B48	20	56244	3650.4	20.36	20.35																						
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC										SCC 1										SCC 2										Power											
					Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	ULCA Tx Power (dBm)																				
CA_41C_41A	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	39750	2506	24.51	24.52																						
CA_43E	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	40896	2620.6	24.53	24.52																						
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC										SCC 1										SCC 2										SCC 3										Power	
					Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	ULCA Tx Power (dBm)															
CA_41F	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	40896	2620.6	LTE B41	20	40698	2600.8	24.55	24.52														
CA_41C_41D	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	39948	2620.8	LTE B41	20	39750	2506	24.56	24.52														
CA_41D_41E	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	LTE B41	20	41094	2640.4	LTE B41	20	39948	2620.8	LTE B41	20	40698	2600.8	24.55	24.52														

I.4.2 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 I-29

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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	SCC UL RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (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	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.49	24.52
CA [48C]	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	1	99	56442	3670.2	4x4	20.33	20.35
CA [60B]	LTE B66	10	132022	1715	QPSK	1	49	66486	2115	4x4	LTE B66	10	132121	1724.9	QPSK	1	0	66585	2124.9	4x4	23.81	23.86
CA [66C]	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4	LTE B66	20	132270	1739.8	QPSK	1	0	66734	2139.8	4x4	23.85	23.84

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	SCC UL RB	SCC UL RB Offset	SCC (DL) Channel	SCC (DL) Frequency [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [41C] [41A]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	2x2	24.52	24.52
CA [41C] [41A]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.51	24.52
CA [41C] [41A]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.49	24.52
CA [41C]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.53	24.52
CA [48C]	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	1	99	56442	3670.2	4x4	20.27	20.35
CA [48C] [48A]	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	1	99	56442	3670.2	4x4	20.26	20.35
CA [48C] [48A]	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	2x2	LTE B48	20	56442	3670.2	QPSK	1	99	56442	3670.2	2x2	20.25	20.35
CA [48C] [48A]	LTE B48	20	56640	3690	QPSK	1	0	56640	3690	4x4	LTE B48	20	56442	3670.2	QPSK	1	99	56442	3670.2	4x4	20.26	20.35

Combination	PCC										SCC										Power	
	PCC Band	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 (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC (DL) Channel	SCC (DL) Frequency [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [41E]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.51	24.52
CA [41D] [41A]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.52	24.52
CA [41D] [41A]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	2x2	24.51	24.52
CA [41D] [41A]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.51	24.52

Combination	PCC										SCC										Power	
	PCC Band	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 (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [41C] [41D]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	2x2	24.46	24.52
CA [41D] [41C]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.43	24.52
CA [41D] [41D]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.43	24.52
CA [41D] [41C]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	2x2	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	2x2	24.41	24.52
CA [41C] [41D]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.44	24.52
CA [41D] [41C]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.43	24.52
CA [41D] [41C]	LTE B41	20	41490	2680	QPSK	1	0	41490	2680	4x4	LTE B41	20	41292	2660.2	QPSK	1	99	41292	2660.2	4x4	24.45	24.52

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