

APPENDIX F: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 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 1 – Example of Exclusion Table for SISO Configurations

Index		JCT	Approved Chemical Substances (CAS#)				Restriction	Completely Compliant by Measurement Support	Index		JCT	Approved Chemical Substances (CAS#)				Restriction	Completely Compliant by Measurement Support	Index		JCT	Approved Chemical Substances (CAS#)				Restriction	Completely Compliant by Measurement Support																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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CC2-41	CA-2	5.10, 10.10	5.10, 10.10				CC-46		CC2-42	CA-20-20-4A	5.10, 10.10	5.10, 10.10	5.10, 10.10	5.10	CC-60		CC2-43	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10, 10.10	5.10	CC-50	CC-43	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-51	CC-44	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-52	CC-45	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-53	CC-46	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-54	CC-47	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-55	CC-48	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-56	CC-49	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-57	CC-50	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-58	CC-51	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-59	CC-52	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-60	CC-53	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-61	CC-54	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-62	CC-55	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-63	CC-56	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-64	CC-57	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-65	CC-58	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-66	CC-59	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-67	CC-60	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-68	CC-61	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-69	CC-62	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-70	CC-63	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-71	CC-64	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-72	CC-65	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-73	CC-66	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-74	CC-67	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-75	CC-68	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-76	CC-69	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-77	CC-70	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-78	CC-71	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-79	CC-72	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-80	CC-73	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-81	CC-74	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-82	CC-75	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-83	CC-76	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-84	CC-77	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-85	CC-78	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-86	CC-79	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-87	CC-80	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-88	CC-81	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-89	CC-82	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-90	CC-83	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-91	CC-84	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-92	CC-85	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-93	CC-86	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-94	CC-87	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-95	CC-88	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-96	CC-89	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-97	CC-90	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-98	CC-91	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-99	CC-92	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-100	CC-93	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-101	CC-94	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-102	CC-95	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-103	CC-96	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-104	CC-97	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-105	CC-98	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-106	CC-99	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-107	CC-100	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-108	CC-101	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-109	CC-102	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-110	CC-103	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-111	CC-104	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-112	CC-105	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-113	CC-106	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-114	CC-107	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-115	CC-108	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-116	CC-109	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-117	CC-110	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-118	CC-111	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-119	CC-112	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-120	CC-113	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-121	CC-114	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-122	CC-115	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-123	CC-116	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-124	CC-117	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-125	CC-118	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-126	CC-119	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-127	CC-120	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-128	CC-121	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-129	CC-122	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-130	CC-123	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-131	CC-124	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-132	CC-125	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-133	CC-126	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-134	CC-127	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-135	CC-128	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-136	CC-129	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-137	CC-130	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-138	CC-131	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-139	CC-132	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-140	CC-133	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-141	CC-134	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-142	CC-135	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-143	CC-136	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-144	CC-137	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-145	CC-138	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-146	CC-139	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-147	CC-140	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-148	CC-141	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-149	CC-142	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-150	CC-143	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-151	CC-144	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-152	CC-145	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-153	CC-146	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-154	CC-147	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-155	CC-148	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-156	CC-149	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-157	CC-150	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-158	CC-151	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-159	CC-152	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-160	CC-153	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-161	CC-154	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-162	CC-155	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-163	CC-156	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-164	CC-157	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-165	CC-158	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-166	CC-159	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-167	CC-160	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-168	CC-161	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-169	CC-162	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-170	CC-163	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-171	CC-164	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-172	CC-165	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-173	CC-166	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-174	CC-167	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-175	CC-168	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-176	CC-169	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-177	CC-170	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-178	CC-171	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-179	CC-172	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-180	CC-173	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-181	CC-174	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-182	CC-175	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-183	CC-176	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-184	CC-177	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-185	CC-178	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-186	CC-179	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-187	CC-180	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-188	CC-181	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-189	CC-182	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-190	CC-183	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-191	CC-184	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-192	CC-185	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-193	CC-186	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-194	CC-187	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-195	CC-188	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-196	CC-189	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-197	CC-190	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-198	CC-191	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-199	CC-192	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-200	CC-193	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-201	CC-194	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-202	CC-195	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-203	CC-196	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-204	CC-197	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-205	CC-198	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-206	CC-199	CA-20-4A-5A	5.10, 10.10	5.10, 10.10	5.10	CC-

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

Index	ZCC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Support	Index	ZCC	Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Support	Index	ZCC	Supported Channel Bandwidth (MHz)				Restriction	Completely Covered by Measurement Support
		CC1	CC2					CC1	CC2					CC3	CC4				
CCC RM1	CA [2C]	5, 10, 15, 20	5, 10, 15, 20		CCC RM6	CCC RM1	CA [2A] 2A-4A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		CCC RM1	CA [2A] 5A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM2	CA [2A-3A]	5, 10, 15, 20	5, 10, 15, 20		CCC RM7	CCC RM2	CA [2A] 2A-5A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20		CCC RM2	CA [2A-5A-66A]	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20	No	
CCC RM3	CA [2A] [2A]	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM8	CCC RM3	CA [2A] 2A-12A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	CCC RM3	CA [2A] 5A-66A	5, 10, 15, 20	5, 10	5, 10, 15	5, 10, 15	No	
CCC RM4	CA [2A] 4A-12A	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM9	CCC RM4	CA [2A] 2A-13A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	CCC RM4	CA [2A-5A-66B]	5, 10, 15, 20	5, 10	5, 10, 15	5, 10, 15	No	
CCC RM5	CA [2A] [4A] [7]	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM10	CCC RM5	CA [2A] 2A-30A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	CCC RM5	CA [2A] 5A-66C	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM6	CA [2A] 5A	5, 10, 15, 20	5, 10		CCC RM11	CCC RM6	CA [2C] 66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM6	CA [2A-5A-66C]	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM7	CA [2A] [2A1]	5, 10, 15, 20	5, 10		CCC RM12	CCC RM7	CA [2C] 66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM7	CA [2C] 66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM8	CA [2A] [3A]	5, 10, 15, 20	5, 10		CCC RM13	CCC RM8	CA [2C] [66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM8	CA [2C] [66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM9	CA [2A]	5, 10	5, 10		CCC RM14	CCC RM9	CA [2A] 2A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM9	CA [2A] 2A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM10	CA [2A] 29A [3]	5, 10	5, 10	B79 SCC Only	CCC RM15	CCC RM10	CA [2A] 2A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM10	CA [2A] 2A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM11	CA [2A] [3A]	5, 10	5, 10		CCC RM16	CCC RM11	CA [2A] 2A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM11	CA [2A] 2A-71A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM12	CA [2A] 66A [2]	5, 10, 15, 20	5, 10, 15, 20		CCC RM17	CCC RM12	CA [2A] 4A-29A	5, 10, 15, 20	5, 10, 15, 20	5, 10	B79 SCC Only	CCC RM12	CA [2A] 4A-29A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM13	CA 2A [66A] [2]	5, 10, 15, 20	5, 10, 15, 20		CCC RM18	CCC RM13	CA [2A] 4A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM13	CA [2A] 4A-71A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM14	CA [2A] [66A] [2]	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM19	CCC RM14	CA [2A] 4A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM14	CA [2A] 4A-71A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM15	CA [2A] 71A	5, 10, 15, 20	5, 10, 15, 20		CCC RM20	CCC RM15	CA [2A] 5A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	CCC RM15	CA [2A] 5A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM16	CA 5A [66A]	5, 10, 15, 20	5, 10, 15, 20		CCC RM21	CCC RM16	CA [2A] 5A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	CCC RM16	CA [2A] 5A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM17	CA [2A] [66A] [4]	5, 10, 15, 20	5, 10, 15, 20		CCC RM22	CCC RM17	CA [2A] 12A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM17	CA [2A] 12A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM18	CA [1A] [66A]	5, 10, 15, 20	5, 10, 15, 20		CCC RM23	CCC RM18	CA [2A] 13A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	CCC RM18	CA [2A] 13A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM19	CA [3A] [66A]	5, 10	5, 10, 15, 20		CCC RM24	CCC RM19	CA [2A] 13A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	CCC RM19	CA [2A] 13A-66A	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM20	CA [66A]	5, 10, 15	5, 10, 15		CCC RM25	CCC RM20	CA [2A-30A-66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No	CCC RM20	CA [2A-30A-66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No	
CCC RM21	CA [66C]	5, 10, 15, 20	5, 10, 15, 20		CCC RM26	CCC RM21	CA [2A] 66B	5, 10, 15, 20	5, 10, 15	5, 10, 15	CCC RM19	CCC RM22	CA [2A] 66B	5, 10, 15, 20	5, 10, 15	5, 10, 15	5, 10, 15	CCC RM19	
CCC RM22	CA [66A]	5, 10, 15, 20	5, 10, 15, 20		CCC RM27	CCC RM22	CA [2A] 66B	5, 10, 15, 20	5, 10, 15	5, 10, 15	CCC RM19	CCC RM22	CA [2A] 66B	5, 10, 15, 20	5, 10, 15	5, 10, 15	5, 10, 15	CCC RM19	
CCC RM23	CA [66A] [66A]	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM28	CCC RM23	CA [2A] [66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM23	CA [2A] [66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
					CCC RM29	CCC RM24	CA [2A] 66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM24	CA [2A] 66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC RM19	
					CCC RM30	CCC RM25	CA [2A] 66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC RM19	CCC RM25	CA [2A] 66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	CCC RM19	
					CCC RM31	CCC RM26	CA [2A] 66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM26	CA [2A] 66C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
					CCC RM32	CCC RM27	CA [2A] 66A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM27	CA [2A] 66A-66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
					CCC RM33	CCC RM28	CA [2A] 66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM28	CA [2A] 66A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	
					CCC RM34	CCC RM29	CA [2A] 66A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	CCC RM29	CA [2A] 66A-71A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	

Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

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1.2 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.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

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. 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.

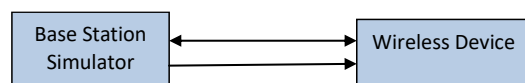


Figure 1
DL CA Power Measurement Setup

FCC ID: PY7-57441Y	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	SONY	Reviewed by: Quality Manager
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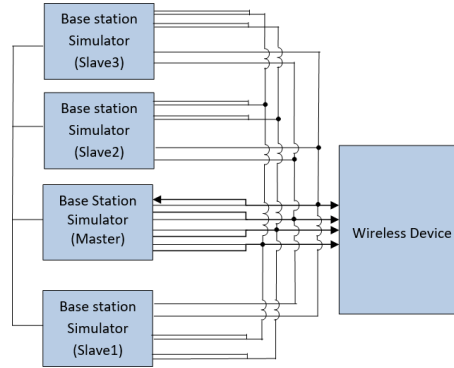


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
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) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 2A-12A (1)	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	2390	-	-	-	-	-	-	-	-	-	-	-	-	-	24.63	24.20	
CA 4A-12A (1)	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.15	24.20	
CA 4A-12A (2)	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	24.15	24.20	
CA 12A-66A (1)	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.15	24.20	
CA 12A-66A (2)	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.15	24.20	
CA 12B	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	-	-	-	-	-	-	-	-	-	24.26	24.20	
CA 2A-12A-12A	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	2390	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	24.16	24.20
CA 4A-12A-12A	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	24.18	24.20
CA 2A-12A-66A	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	2390	LTE B66	20	66785	2145	LTE B66	20	66785	2145	-	-	-	-	-	-	24.16	24.20
CA 2A-12A-66A-66A	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	2390	LTE B2	20	900	2390	LTE B66	20	66785	2145	LTE B66	20	66785	2145	-	-	24.17	24.20

1.3.2 LTE Band 13 as PCC

Table 2
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 2A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 4A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-66A-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-48C	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-66B	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-66C	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48C-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48A-66B	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-2A-13A-66A-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B66	20	66785	2145	LTE B66	20	66785	2145	-	-	24.48	24.46
CA 2A-13A-48D	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-48A-48C-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-48C-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-48C-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 2A-13A-48C-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48D-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48C-66C	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48C-66B	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48C-66C	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48D-66A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	
CA 13A-48C	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B66	20	66785	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	24.48	24.46	

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1.3.3 LTE Band 66 as PCC

Table 3
Maximum Output Powers

[illegible]

1.3.4 LTE Band 7 as PCC

Table 4
Maximum Output Powers

Combination	PCE Band	PCC BW [MHz]	PCC [UL] Ch	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power				
				PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power Enabled [dBm]	LTE Single Carrier Power [dBm]	
CA_5A7A	LTE_E7	10	20B00	2505	64QAM	1	0	20B00	2625	LTE_B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	16.18	16.33	
CA_7A45A (1)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_B46	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.18	16.39	
CA_26A7A	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.18	16.39	
CA_26A7A (1)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.18	16.39	
LTE_A6B7C	LTE_E7	10	20B00	2505	64QAM	1	0	20B00	2625	LTE_E7	20	2944	2639.4	LTE_B4	20	50065	5037.5	-	-	-	-	-	-	-	-	-	16.18	16.39
CA_46A7A	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.18	16.39	
CA_46A7C	LTE_E7	10	20B00	2505	64QAM	1	0	20B00	2625	LTE_E7	20	2944	2639.4	LTE_B4	20	2175	2125.5	-	-	-	-	-	-	-	-	-	16.18	16.33
CA_5A7A (1)	LTE_E7	10	20B00	2505	64QAM	1	0	20B00	2625	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.18	16.39	
CA_7A47C	LTE_E7	10	20B00	2505	64QAM	1	0	20B00	2625	LTE_E7	20	2944	2639.4	LTE_B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	16.17	16.33
CA_7A47C (1)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (2)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (3)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (4)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (5)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (6)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (7)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (8)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (9)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (10)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (11)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (12)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (13)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (14)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (15)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (16)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (17)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (18)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (19)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (20)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (21)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (22)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (23)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (24)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (25)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (26)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (27)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (28)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (29)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (30)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (31)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (32)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (33)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (34)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (35)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (36)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (37)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (38)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (39)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (40)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (41)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (42)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (43)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (44)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (45)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (46)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (47)	LTE_E7	5	20775	2502.5	64QAM	1	12	20775	2622.5	LTE_E7	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	16.17	16.39	
CA_7A47C (48)	LTE_E7	5	20775	2502.5	64QAM	1																						

1.3.5 LTE Band 41 as PCC

Table 5
Maximum Output Powers

[illegible]

1.3.6 LTE Band 48 as PCC

Table 6
Maximum Output Powers

		PCC								SCC 1				SCC 2				SCC 3				SCC 4				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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE TxPower with CA Enabled (dBm)	LTE Single Carrier TxPower (dBm)	
CA 48A-48A	LTE B48	5	56232	3649.2	15QAM	1	0	56232	3649.2	LTE B48	20	55340	3590	-	-	-	-	-	-	-	-	-	-	-	-	-	14.43	14.37
CA 48E	LTE B48	5	56232	3649.2	15QAM	1	0	56232	3649.2	LTE B48	20	56115	3637.5	LTE B48	20	55917	3617.7	LTE B48	20	55719	3597.9	-	-	-	-	-	14.42	14.37
CA 48C-48D	LTE B48	5	56232	3649.2	15QAM	1	0	56232	3649.2	LTE B48	20	56115	3637.5	LTE B48	20	55340	3560	LTE B48	20	55538	3579.8	LTE B48	20	55736	3599.6	14.43	14.37	
CA 48D-48C	LTE B48	5	56232	3649.2	15QAM	1	0	56232	3649.2	LTE B48	20	56115	3637.5	LTE B48	20	55917	3617.7	LTE B48	20	56640	3690	LTE B48	20	56442	3670.2	14.44	14.37	

FCC ID: PY7-57441Y	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT	SONY	Reviewed by: Quality Manager
Test Dates: 08/23/20 - 09/16/20	DUT Type: Portable Handset			APPENDIX F: Page 5 of 9

1.4 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 1.2 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.

1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 7
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]
66	3	131987	1711.5	64QAM	1	7	16.44	16.43
7	5	20775	2502.5	64QAM	1	12	16.54	16.39
41	5	41490	2680	QPSK	1	24	14.83	14.80
48	5	56232	3649.2	16QAM	1	0	14.38	14.37

1.4.2 LTE Band 12 as PCC

Table 8
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) 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.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
CA [2A]-12A (1)	LTE B12	5	23095	707.5	QPSK	1	0	5095	737.5	2x2	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FCC ID: PY7-57441Y	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	 SONY	Reviewed by: Quality Manager
Test Dates: 08/23/20 - 09/16/20	DUT Type: Portable Handset			APPENDIX F: Page 6 of 9

1.4.3 LTE Band 13 as PCC

Table 9
Maximum Output Powers

Combination	PCB Band	PCC				SSC 1				SSC 2				SSC 3				SSC 4				Power					
		PCB BW [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset [MHz]	PCC [DL] Freq. [MHz]	DL Ant. Config.	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA [2A]-2A-13A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B2	20	700	1460	242	-	-	-	24.6	24.6		
CA [2A]-4A-13A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B4	20	217	2132	5	242	-	-	25.0	24.6		
CA [2A]-4A-13A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B4	20	217	2132	5	242	-	-	24.2	24.6		
CA [2A]-4A-13A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B4	20	217	2132	5	242	-	-	24.2	24.6		
CA [2A]-3A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B4B	20	6090	1537	3	242	-	-	24.0	24.6		
CA [2A]-4A-13A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B4B	20	6090	1537	3	242	-	-	24.0	24.6		
CA [2A]-4A-13A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3	20	900	1560	444	LTE-B4B	20	6090	1537	3	242	-	-	24.0	24.6		
CA [2A]-6A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3B	20	6878	2145	444	LTE-B5B	20	6728	2130	242	-	-	-	24.0	24.6		
CA [2A]-6A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3B	20	6878	2145	444	LTE-B5B	20	6728	2130	242	-	-	-	24.0	24.6		
CA [2A]-6A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3B	20	6878	2145	444	LTE-B5B	20	6728	2130	242	-	-	-	24.0	24.6		
CA [2A]-6A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3B	20	6878	2145	444	LTE-B5B	20	6728	2130	242	-	-	-	24.0	24.6		
CA [2A]-6A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B3B	20	6878	2145	444	LTE-B5B	20	6728	2130	242	-	-	-	24.0	24.6		
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874	2143.4	242	24.39	24.48
CA [2A]-4A-6A	LTE-B3	120	2320	782	QPSK	1	0	520	751	242	LTE-B4B	20	5590	3625	444	LTE-B5B	15	6878	2145	242	LTE-B5B	5	66874				

FCC ID: PY7-57441Y	 PCTEST® Proud to be part of e element	SAR EVALUATION REPORT	 SONY	Reviewed by: Quality Manager
Test Dates: 08/23/20 - 09/16/20	DUT Type: Portable Handset			APPENDIX F: Page 7 of 9

1.4.4 LTE Band 66 as PCC

Table 10
Maximum Output Powers

Coordinate	SET 1										SET 2										SET 3										SET 4										SET 5										SET 6	SET 7	SET 8	SET 9	SET 10	SET 11	SET 12	SET 13	SET 14	SET 15	SET 16	SET 17	SET 18	SET 19	SET 20	SET 21	SET 22	SET 23	SET 24	SET 25	SET 26	SET 27	SET 28	SET 29	SET 30	SET 31	SET 32	SET 33	SET 34	SET 35	SET 36	SET 37	SET 38	SET 39	SET 40	SET 41	SET 42	SET 43	SET 44	SET 45	SET 46	SET 47	SET 48	SET 49	SET 50	SET 51	SET 52	SET 53	SET 54	SET 55	SET 56	SET 57	SET 58	SET 59	SET 60	SET 61	SET 62	SET 63	SET 64	SET 65	SET 66	SET 67	SET 68	SET 69	SET 70	SET 71	SET 72	SET 73	SET 74	SET 75	SET 76	SET 77	SET 78	SET 79	SET 80	SET 81	SET 82	SET 83	SET 84	SET 85	SET 86	SET 87	SET 88	SET 89	SET 90	SET 91	SET 92	SET 93	SET 94	SET 95	SET 96	SET 97	SET 98	SET 99	SET 100	SET 101	SET 102	SET 103	SET 104	SET 105	SET 106	SET 107	SET 108	SET 109	SET 110	SET 111	SET 112	SET 113	SET 114	SET 115	SET 116	SET 117	SET 118	SET 119	SET 120	SET 121	SET 122	SET 123	SET 124	SET 125	SET 126	SET 127	SET 128	SET 129	SET 130	SET 131	SET 132	SET 133	SET 134	SET 135	SET 136	SET 137	SET 138	SET 139	SET 140	SET 141	SET 142	SET 143	SET 144	SET 145	SET 146	SET 147	SET 148	SET 149	SET 150	SET 151	SET 152	SET 153	SET 154	SET 155	SET 156	SET 157	SET 158	SET 159	SET 160	SET 161	SET 162	SET 163	SET 164	SET 165	SET 166	SET 167	SET 168	SET 169	SET 170	SET 171	SET 172	SET 173	SET 174	SET 175	SET 176	SET 177	SET 178	SET 179	SET 180	SET 181	SET 182	SET 183	SET 184	SET 185	SET 186	SET 187	SET 188	SET 189	SET 190	SET 191	SET 192	SET 193	SET 194	SET 195	SET 196	SET 197	SET 198	SET 199	SET 200	SET 201	SET 202	SET 203	SET 204	SET 205	SET 206	SET 207	SET 208	SET 209	SET 210	SET 211	SET 212	SET 213	SET 214	SET 215	SET 216	SET 217	SET 218	SET 219	SET 220	SET 221	SET 222	SET 223	SET 224	SET 225	SET 226	SET 227	SET 228	SET 229	SET 230	SET 231	SET 232	SET 233	SET 234	SET 235	SET 236	SET 237	SET 238	SET 239	SET 240	SET 241	SET 242	SET 243	SET 244	SET 245	SET 246	SET 247	SET 248	SET 249	SET 250	SET 251	SET 252	SET 253	SET 254	SET 255	SET 256	SET 257	SET 258	SET 259	SET 260	SET 261	SET 262	SET 263	SET 264	SET 265	SET 266	SET 267	SET 268	SET 269	SET 270	SET 271	SET 272	SET 273	SET 274	SET 275	SET 276	SET 277	SET 278	SET 279	SET 280	SET 281	SET 282	SET 283	SET 284	SET 285	SET 286	SET 287	SET 288	SET 289	SET 290	SET 291	SET 292	SET 293	SET 294	SET 295	SET 296	SET 297	SET 298	SET 299	SET 300	SET 301	SET 302	SET 303	SET 304	SET 305	SET 306	SET 307	SET 308	SET 309	SET 310	SET 311	SET 312	SET 313	SET 314	SET 315	SET 316	SET 317	SET 318	SET 319	SET 320	SET 321	SET 322	SET 323	SET 324	SET 325	SET 326	SET 327	SET 328	SET 329	SET 330	SET 331	SET 332	SET 333	SET 334	SET 335	SET 336	SET 337	SET 338	SET 339	SET 340	SET 341	SET 342	SET 343	SET 344	SET 345	SET 346	SET 347	SET 348	SET 349	SET 350	SET 351	SET 352	SET 353	SET 354	SET 355	SET 356	SET 357	SET 358	SET 359	SET 360	SET 361	SET 362	SET 363	SET 364	SET 365	SET 366	SET 367	SET 368	SET 369	SET 370	SET 371	SET 372	SET 373	SET 374	SET 375	SET 376	SET 377	SET 378	SET 379	SET 380	SET 381	SET 382	SET 383	SET 384	SET 385	SET 386	SET 387	SET 388	SET 389	SET 390	SET 391	SET 392	SET 393	SET 394	SET 395	SET 396	SET 397	SET 398	SET 399	SET 400	SET 401	SET 402	SET 403	SET 404	SET 405	SET 406	SET 407	SET 408	SET 409	SET 410	SET 411	SET 412	SET 413	SET 414	SET 415	SET 416	SET 417	SET 418	SET 419	SET 420	SET 421	SET 422	SET 423	SET 424	SET 425	SET 426	SET 427	SET 428	SET 429	SET 430	SET 431	SET 432	SET 433	SET 434	SET 435	SET 436	SET 437	SET 438	SET 439	SET 440	SET 441	SET 442	SET 443	SET 444	SET 445	SET 446	SET 447	SET 448	SET 449	SET 450	SET 451	SET 452	SET 453	SET 454	SET 455	SET 456	SET 457	SET 458	SET 459	SET 460	SET 461	SET 462	SET 463	SET 464	SET 465	SET 466	SET 467	SET 468	SET 469	SET 470	SET 471	SET 472	SET 473	SET 474	SET 475	SET 476	SET 477	SET 478	SET 479	SET 480	SET 481	SET 482	SET 483	SET 484	SET 485	SET 486	SET 487	SET 488	SET 489	SET 490	SET 491	SET 492	SET 493	SET 494	SET 495	SET 496	SET 497	SET 498	SET 499	SET 500	SET 501	SET 502	SET 503	SET 504	SET 505	SET 506	SET 507	SET 508	SET 509	SET 510	SET 511	SET 512	SET 513	SET 514	SET 515	SET 516	SET 517	SET 518	SET 519	SET 520	SET 521	SET 522	SET 523	SET 524	SET 525	SET 526	SET 527	SET 528	SET 529	SET 530	SET 531	SET 532	SET 533	SET 534	SET 535	SET 536	SET 537	SET 538	SET 539	SET 540	SET 541	SET 542	SET 543	SET 544	SET 545	SET 546	SET 547	SET 548	SET 549	SET 550	SET 551	SET 552	SET 553	SET 554	SET 555	SET 556	SET 557	SET 558	SET 559	SET 560	SET 561	SET 562	SET 563	SET 564	SET 565	SET 566	SET 567	SET 568	SET 569	SET 570	SET 571	SET 572	SET 573	SET 574	SET 575	SET 576	SET 577	SET 578	SET 579	SET 580	SET 581	SET 582	SET 583	SET 584	SET 585	SET 586	SET 587	SET 588	SET 589	SET 590	SET 591	SET 592	SET 593	SET 594	SET 595	SET 596	SET 597	SET 598	SET 599	SET 600	SET 601	SET 602	SET 603	SET 604	SET 605	SET 606	SET 607	SET 608	SET 609	SET 610	SET 611	SET 612	SET 613	SET 614	SET 615	SET 616	SET 617	SET 618	SET 619	SET 620	SET 621	SET 622	SET 623	SET 624	SET 625	SET 626	SET 627	SET 628	SET 629	SET 630	SET 631	SET 632	SET 633	SET 634	SET 635	SET 636	SET 637	SET 638	SET 639	SET 640	SET 641	SET 642	SET 643	SET 644	SET 645	SET 646	SET 647	SET 648	SET 649	SET 650	SET 651	SET 652	SET 653	SET 654	SET 655	SET 656	SET 657	SET 658	SET 659	SET 660	SET 661	SET 662	SET 663	SET 664	SET 665	SET 666	SET 667	SET 668	SET 669	SET 670	SET 671	SET 672	SET 673	SET 674	SET 675	SET 676	SET 677	SET 678	SET 679	SET 680	SET 681	SET 682	SET 683	SET 684	SET 685	SET 686	SET 687	SET 688	SET 689	SET 690	SET 691	SET 692	SET 693	SET 694	SET 695	SET 696	SET 697	SET 698	SET 699	SET 700	SET 701	SET 702	SET 703	SET 704	SET 705	SET 706	SET 707	SET 708	SET 709	SET 710	SET 711	SET 712	SET 713	SET 714	SET 715	SET 716	SET 717	SET 718	SET 719	SET 720	SET 721	SET 722	SET 723	SET 724	SET 725	SET 726	SET 727	SET 728	SET 729	SET 730	SET 731	SET 732	SET 733	SET 734	SET 735	SET 736	SET 737	SET 738	SET 739	SET 740	SET 741	SET 742	SET 743	SET 744	SET 745	SET 746	SET 747	SET 748	SET 749	SET 750	SET 751	SET 752	SET 753	SET 754	SET 755	SET 756	SET 757	SET 758	SET 759	SET 760	SET 761	SET 762	SET 763	SET 764	SET 765	SET 766	SET 767	SET 768	SET 769	SET 770	SET 771	SET 772	SET 773	SET 774	SET 775	SET 776	SET 777	SET 778	SET 779	SET 780	SET 781	SET 782	SET 783	SET 784	SET 785	SET 786	SET 787	SET 788	SET 789	SET 790	SET 791	SET 792	SET 793	SET 794	SET 795	SET 796	SET 797	SET 798	SET 799	SET 800	SET 801	SET 802	SET 803	SET 804	SET 805	SET 806	SET 807	SET 808	SET 809	SET 810	SET 811	SET 812	SET 813	SET 814	SET 815	SET 816	SET 817	SET 818	SET 819	SET 820	SET 821	SET 822	SET 823	SET 824	SET 825	SET 826	SET 827	SET 828	SET 829	SET 830	SET 831	SET 832	SET 833	SET 834	SET 835	SET 836	SET 837	SET 838	SET 839	SET 840	SET 841	SET 842	SET 843	SET 844	SET 845	SET 846	SET 847	SET 848	SET 849	SET 850	SET 851	SET 852	SET 853	SET 854	SET 855	SET 856	SET 857	SET 858	SET 859	SET 860	SET 861	SET 862	SET 863	SET 864	SET 865	SET 866	SET 867	SET 868	SET 869	SET 870	SET 871	SET 872	SET 873	SET 874	SET 875	SET 876	SET 877	SET 878	SET 879	SET 880	SET 881	SET 882	SET 883	SET 884	SET 885	SET 886	SET 887	SET 888	SET 889	SET 890	SET 891	SET 892	SET 893	SET 894	SET 895	SET 896	SET 897	SET 898	SET 899	SET 900	SET 901	SET 902	SET 903	SET 904	SET 905	SET 906	SET 907	SET 908	SET 909	SET 910	SET 911	SET 912	SET 913	SET 914	SET 915	SET 916	SET 917	SET 918	SET 919	SET 920	SET 921	SET 922	SET 923	SET 924	SET 925	SET 926	SET 927	SET 928	SET 929	SET 930	SET 931	SET 932	SET 933	SET 934	SET 935	SET 936	SET 937	SET 938	SET 939	SET 940	SET 941	SET 942	SET 943	SET 944	SET 945	SET 946	SET 947	SET 948	SET 949	SET 950	SET 951	SET 952	SET 953	SET 954	SET 955	SET 956	SET 957	SET 958	SET 959	SET
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FCC ID: PY7-57441Y	 PCTEST® Proud to be part of e element	SAR EVALUATION REPORT	SONY	Reviewed by: Quality Manager
Test Dates: 08/23/20 - 09/16/20	DUT Type: Portable Handset			APPENDIX F: Page 8 of 9

1.4.5 LTE Band 7 as PCC

Table 11
Maximum Output Powers

Combination	PCC										SC1				SC2				SC3				SC4				Power					
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL #B	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SC Band	SC BW [MHz]	SC [DL] Ch.	SC [DL] Freq. [MHz]	DL Ant. Config.	SC Band	SC BW [MHz]	SC [DL] Ch.	SC [DL] Freq. [MHz]	DL Ant. Config.	SC Band	SC BW [MHz]	SC [DL] Ch.	SC [DL] Freq. [MHz]	DL Ant. Config.	SC Band	SC BW [MHz]	SC [DL] Ch.	SC [DL] Freq. [MHz]	DL Ant. Config.	LTE P-SSB Tx Power [dBm]	LTE Single Carrier Tx Power [dBm]
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B2	20	800	1960	2x2																16.46	16.46
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B2	20	800	1960	2x2																16.46	16.46
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B46	20	50666	5537.5	2x2																16.46	16.46
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7	20	1350	2460	4x4																15.91	15.91
CA-ZA/TA	LTE B7	5	20775	2502.5	64QAM	1	0	22775	2622.5	4x4	LTE B7																					

1.4.6 LTE Band 41 as PCC

Table 12
Maximum Output Powers

Combination	PCC										SCC 1					SCC 2					Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] 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.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA {11C} (1)	LTE B41	5	41490	2680	QPSK	1	24	41490	2680	4x4	LTE B41	20	41373	2668.3	4x4	-	-	-	-	-	14.78	14.80
CA {11D} (1)	LTE B41	10	41490	2680	16QAM	1	49	41490	2680	4x4	LTE B41	20	41346	2665.6	4x4	LTE B41	20	41148	2645.8	4x4	14.72	14.71

1.4.7 LTE Band 48 as PCC

Table 13
Maximum Output Powers

Combination		PCC					SCC 1					SCC 2					SCC 3					SCC 4					Power	
		PCC BW [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL OffSet	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [UL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [UL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC [UL] Freq. [MHz]	DL Ant. Config.	LTE TxPower with DRB CA Enable	LTE Single Carrier Tx Power [dBm]			
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	2x2	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	2x2	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2	10GSM	1	0	56232	3649.2	4x4	LTE B4B	20	55340	3560	4x4	LTE B4B	20	55319	3597.8	4x4	LTE B4B	20	55319	3597.8	4x4	14.40	14.37	
CA (A)B (A)	LTE B4B	5	56232	3569.2																								

FCC ID: PY7-57441Y	 PCTEST Proud to be part of e element	SAR EVALUATION REPORT	SONY	Reviewed by: Quality Manager
Test Dates: 08/23/20 - 09/16/20	DUT Type: Portable Handset			APPENDIX F: Page 9 of 9