

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Second Antenna											
Front Side	15mm	41140/2645	20M QPSK 1RB#0	0.063	0.032	-0.07	21.78	22.33	0.071	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#0	0.195	0.099	-0.18	21.78	22.33	0.221	Battery 1#	/
Front Side	15mm	40807/2611.7	20M QPSK 50%RB#50	0.027	0.015	-0.08	20.59	21.33	0.032	Battery 1#	/
Back Side	15mm	40807/2611.7	20M QPSK 50%RB#50	0.136	0.068	-0.17	20.59	21.33	0.161	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#0	0.102	0.049	-0.14	21.78	22.33	0.116	Battery 2#	/
Back Side	15mm	40140/2545	20M QPSK 1RB#0	0.176	0.090	-0.08	21.54	22.33	0.211	Battery 1#	/
Back Side	15mm	40473/2578.3	20M QPSK 1RB#99	0.201	0.102	-0.13	21.68	22.33	0.233	Battery 1#	Yes
Back Side	15mm	40807/2611.7	20M QPSK 1RB#99	0.191	0.097	-0.18	21.66	22.33	0.223	Battery 1#	/
Back Side	15mm	40473/2578.3	20M QPSK 1RB#99	0.117	0.062	-0.17	21.68	22.33	0.136	With Wireless Charging Cover	/
Back Side	15mm	40140/2545(PCC)	20M QPSK 1RB#99	0.163	0.082	-0.11	21.12	22.33	0.215	Battery 1#	/
		40338/2564.8(SCC)	20M QPSK 1RB#0								
Main Antenna											
Front Side	15mm	41140/2645	20M QPSK 1RB#0	0.043	0.023	0.16	22.75	23.83	0.055	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#0	0.175	0.091	-0.06	22.75	23.83	0.224	Battery 1#	Yes
Front Side	15mm	40140/2545	20M QPSK 50%RB#0	0.043	0.023	-0.12	21.67	22.83	0.056	Battery 1#	/
Back Side	15mm	40140/2545	20M QPSK 50%RB#0	0.132	0.071	-0.14	21.67	22.83	0.172	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#0	0.137	0.070	-0.02	22.75	23.83	0.175	Battery 2#	/
Back Side	15mm	40140/2545	20M QPSK 1RB#0	0.164	0.086	-0.19	22.61	23.83	0.217	Battery 1#	/
Back Side	15mm	40473/2578.3	20M QPSK 1RB#0	0.148	0.078	0.10	22.64	23.83	0.194	Battery 1#	/
Back Side	15mm	40807/2611.7	20M QPSK 1RB#0	0.142	0.074	-0.03	22.69	23.83	0.184	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#0	0.129	0.067	0.07	22.75	23.83	0.165	With Wireless Charging Cover	/
Back Side	15mm	40140/2545(PCC)	20M QPSK 1RB#99	0.163	0.086	0.09	22.36	23.83	0.229	Battery 1#	/
		40338/2564.8(SCC)	20M QPSK 1RB#0								

Table 172: Body Worn SAR test results of LTE Band 41

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Second Antenna											
Front Side	10mm	41140/2645	20M QPSK 1RB#0	0.038	0.020	0.06	18.91	19.33	0.042	Battery 1#	/
Back Side	10mm	41140/2645	20M QPSK 1RB#0	0.163	0.076	-0.14	18.91	19.33	0.179	Battery 1#	/
Left Side	10mm	41140/2645	20M QPSK 1RB#0	0.039	0.015	0.12	18.91	19.33	0.043	Battery 1#	/
Top Side	10mm	41140/2645	20M QPSK 1RB#0	0.060	0.030	0.16	18.91	19.33	0.066	Battery 1#	/
Front Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.043	0.022	-0.05	18.73	19.33	0.049	Battery 1#	/
Back Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.179	0.087	-0.15	18.73	19.33	0.205	Battery 1#	/
Left Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.035	0.014	-0.19	18.73	19.33	0.040	Battery 1#	/
Top Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.069	0.036	0.09	18.73	19.33	0.079	Battery 1#	/
Back Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.182	0.087	0.03	18.73	19.33	0.209	Battery 2#	Yes
Back Side	10mm	40140/2545	20M QPSK 50%RB#50	0.177	0.086	0.00	18.54	19.33	0.212	Battery 2#	/
Back Side	10mm	40807/2611.7	20M QPSK 50%RB#50	0.166	0.079	-0.14	18.72	19.33	0.191	Battery 2#	/
Back Side	10mm	41140/2645	20M QPSK 50%RB#50	0.141	0.066	-0.12	18.48	19.33	0.171	Battery 2#	/
Back Side	10mm	40140/2545	20M QPSK 50%RB#50	0.110	0.055	0.13	18.54	19.33	0.132	With Wireless Charging Cover	/
Back Side	10mm	40140/2545(PCC)	20M QPSK 1RB#99	0.140	0.070	0.07	17.91	19.33	0.194	Battery 1#	/
		40338/2564.8(SCC)	20M QPSK 1RB#0								
Main Antenna											
Front Side	10mm	41140/2645	20M QPSK 1RB#99	0.088	0.046	-0.12	21.91	22.83	0.109	Battery 1#	/
Back Side	10mm	41140/2645	20M QPSK 1RB#99	0.200	0.102	0.08	21.91	22.83	0.247	Battery 1#	/
Right Side	10mm	41140/2645	20M QPSK 1RB#99	0.032	0.017	-0.15	21.91	22.83	0.040	Battery 1#	/
Bottom Side	10mm	41140/2645	20M QPSK 1RB#99	0.371	0.173	0.14	21.91	22.83	0.458	Battery 1#	/
Front Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.088	0.045	-0.07	21.94	22.83	0.108	Battery 1#	/
Back Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.235	0.118	-0.15	21.94	22.83	0.288	Battery 1#	/
Right Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.039	0.020	-0.14	21.94	22.83	0.048	Battery 1#	/
Bottom Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.431	0.170	0.19	21.94	22.83	0.528	Battery 1#	Yes
Bottom Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.399	0.188	0.19	21.94	22.83	0.489	Battery 2#	/
Bottom Side	10mm	40140/2545	20M QPSK 50%RB#0	0.362	0.175	0.15	21.68	22.83	0.471	Battery 1#	/
Bottom Side	10mm	40473/2578.3	20M QPSK 50%RB#0	0.378	0.180	0.16	21.76	22.83	0.483	Battery 1#	/
Bottom Side	10mm	41140/2645	20M QPSK 50%RB#50	0.425	0.198	0.19	21.79	22.83	0.539	Battery 1#	/
Bottom Side	10mm	41140/2645	20M QPSK 50%RB#50	0.233	0.113	0.06	21.79	22.83	0.296	With Wireless Charging Cover	/
Bottom Side	10mm	40140/2545(PCC)	20M QPSK 1RB#99	0.304	0.148	0.09	21.20	22.83	0.442	Battery 1#	/
		40338/2564.8(SCC)	20M QPSK 1RB#0								

Table 173: Hotspot SAR test results of LTE Band 41

Per KDB648474 D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Max Power Without Reduction	Scaled-up 1-g SAR (W/kg)	Product Specific 10-g SAR Exclusion
				1-g	10-g					
Second Antenna										
Front Side	10mm	41140/2645	20M QPSK 1RB#0	0.038	0.020	0.06	18.91	22.33	0.083	Yes
Back Side	10mm	41140/2645	20M QPSK 1RB#0	0.163	0.076	-0.14	18.91	22.33	0.358	Yes
Left Side	10mm	41140/2645	20M QPSK 1RB#0	0.039	0.015	0.12	18.91	22.33	0.086	Yes
Top Side	10mm	41140/2645	20M QPSK 1RB#0	0.060	0.030	0.16	18.91	22.33	0.132	Yes
Front Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.043	0.022	-0.05	18.73	21.33	0.078	Yes
Back Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.179	0.087	-0.15	18.73	21.33	0.326	Yes
Left Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.035	0.014	-0.19	18.73	21.33	0.064	Yes
Top Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.069	0.036	0.09	18.73	21.33	0.126	Yes
Back Side	10mm	40473/2578.3	20M QPSK 50%RB#50	0.182	0.087	0.03	18.73	21.33	0.331	Yes
Back Side	10mm	40140/2545	20M QPSK 50%RB#50	0.177	0.086	0.00	18.54	21.33	0.336	Yes
Back Side	10mm	40807/2611.7	20M QPSK 50%RB#50	0.166	0.079	-0.14	18.72	21.33	0.303	Yes
Back Side	10mm	41140/2645	20M QPSK 50%RB#50	0.141	0.066	-0.12	18.48	21.33	0.272	Yes
Back Side	10mm	40140/2545	20M QPSK 50%RB#50	0.110	0.055	0.13	18.54	21.33	0.209	Yes
Back Side	10mm	40140/2545(PCC)	20M QPSK 1RB#99	0.140	0.070	0.07	17.91	19.33	0.194	Yes
		40338/2564.8(SCC)	20M QPSK 1RB#0							
Main Antenna										
Front Side	10mm	41140/2645	20M QPSK 1RB#99	0.088	0.046	-0.12	21.91	23.83	0.138	Yes
Back Side	10mm	41140/2645	20M QPSK 1RB#99	0.200	0.102	0.08	21.91	23.83	0.311	Yes
Right Side	10mm	41140/2645	20M QPSK 1RB#99	0.032	0.017	-0.15	21.91	23.83	0.050	Yes
Bottom Side	10mm	41140/2645	20M QPSK 1RB#99	0.371	0.173	0.14	21.91	23.83	0.577	Yes
Front Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.088	0.045	-0.07	21.94	22.83	0.108	Yes
Back Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.235	0.118	-0.15	21.94	22.83	0.288	Yes
Right Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.039	0.020	-0.14	21.94	22.83	0.048	Yes
Bottom Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.431	0.170	0.19	21.94	22.83	0.528	Yes
Bottom Side	10mm	40807/2611.7	20M QPSK 50%RB#0	0.399	0.188	0.19	21.94	22.83	0.489	Yes
Bottom Side	10mm	40140/2545	20M QPSK 50%RB#0	0.362	0.175	0.15	21.68	22.83	0.471	Yes
Bottom Side	10mm	40473/2578.3	20M QPSK 50%RB#0	0.378	0.180	0.16	21.76	22.83	0.483	Yes
Bottom Side	10mm	41140/2645	20M QPSK 50%RB#50	0.425	0.198	0.19	21.79	22.83	0.539	Yes
Bottom Side	10mm	41140/2645	20M QPSK 50%RB#50	0.233	0.113	0.06	21.79	22.83	0.296	Yes
Bottom Side	10mm	40140/2545(PCC)	20M QPSK 1RB#99	0.304	0.148	0.09	21.20	22.83	0.442	Yes
		40338/2564.8(SCC)	20M QPSK 1RB#0							

Table 174: Product Specific 10-g SAR test reduction evaluation of LTE Band 41

Note: According to the table above, Product Specific 10-g SAR test is not required for this frequency band.

### 7.2.14 SAR measurement Results of LTE Band 66

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
			1-g	10-g						
Second Antenna										
Left cheek	132322/1745	20M QPSK 1RB#0	0.262	0.126	-0.06	18.51	18.70	0.274	Battery 1#	/
Left tilt	132322/1745	20M QPSK 1RB#0	0.310	0.149	-0.08	18.51	18.70	0.324	Battery 1#	/
Right cheek	132322/1745	20M QPSK 1RB#0	0.402	0.194	-0.13	18.51	18.70	0.420	Battery 1#	/
Right tilt	132322/1745	20M QPSK 1RB#0	0.440	0.214	-0.02	18.51	18.70	0.460	Battery 1#	/
Left cheek	132322/1745	20M QPSK 50%RB#50	0.246	0.111	-0.16	18.45	18.70	0.261	Battery 1#	/
Left tilt	132322/1745	20M QPSK 50%RB#50	0.335	0.161	0.00	18.45	18.70	0.355	Battery 1#	/
Right cheek	132322/1745	20M QPSK 50%RB#50	0.401	0.194	-0.07	18.45	18.70	0.425	Battery 1#	/
Right tilt	132322/1745	20M QPSK 50%RB#50	0.453	0.243	-0.04	18.45	18.70	0.480	Battery 1#	/
Right tilt	132322/1745	20M QPSK 50%RB#50	0.533	0.260	0.16	18.45	18.70	0.565	Battery 2#	/
Right tilt	132072/1720	20M QPSK 50%RB#0	0.590	0.290	-0.02	18.44	18.70	0.626	Battery 2#	Yes
Right tilt	132572/1770	20M QPSK 50%RB#0	0.471	0.230	0.03	18.41	18.70	0.504	Battery 2#	/
Right tilt	132072/1720	20M QPSK 50%RB#0	0.547	0.269	0.11	18.44	18.70	0.581	With Wireless Charging Cover	/
Main Antenna										
Left cheek	132322/1745	20M QPSK 1RB#0	0.144	0.088	-0.10	22.48	23.70	0.191	Battery 1#	Yes
Left tilt	132322/1745	20M QPSK 1RB#0	0.092	0.051	-0.04	22.48	23.70	0.122	Battery 1#	/
Right cheek	132322/1745	20M QPSK 1RB#0	0.123	0.080	-0.01	22.48	23.70	0.163	Battery 1#	/
Right tilt	132322/1745	20M QPSK 1RB#0	0.081	0.046	0.02	22.48	23.70	0.107	Battery 1#	/
Left cheek	132072/1720	20M QPSK 50%RB#0	0.129	0.076	0.09	21.75	22.70	0.161	Battery 1#	/
Left tilt	132072/1720	20M QPSK 50%RB#0	0.078	0.044	0.02	21.75	22.70	0.097	Battery 1#	/
Right cheek	132072/1720	20M QPSK 50%RB#0	0.109	0.072	0.10	21.75	22.70	0.136	Battery 1#	/
Right tilt	132072/1720	20M QPSK 50%RB#0	0.068	0.039	0.03	21.75	22.70	0.085	Battery 1#	/
Left cheek	132322/1745	20M QPSK 1RB#0	0.108	0.068	0.12	22.48	23.70	0.143	Battery 2#	/
Left cheek	132072/1720	20M QPSK 1RB#0	0.117	0.072	0.05	22.41	23.70	0.157	Battery 1#	/
Left cheek	132572/1770	20M QPSK 1RB#50	0.096	0.060	0.19	22.40	23.70	0.130	Battery 1#	/
Left cheek	132322/1745	20M QPSK 1RB#0	0.071	0.044	0.00	22.48	23.70	0.093	With Wireless Charging Cover	/

Table 175: Head SAR test results of LTE Band 66

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Second Antenna											
Front Side	15mm	132322/1745	20M QPSK 1RB#0	0.085	0.048	-0.03	21.66	22.70	0.108	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#0	0.140	0.082	-0.10	21.66	22.70	0.178	Battery 1#	/
Front Side	15mm	132572/1770	20M QPSK 50%RB#0	0.062	0.035	0.11	20.54	21.70	0.080	Battery 1#	/
Back Side	15mm	132572/1770	20M QPSK 50%RB#0	0.091	0.053	0.14	20.54	21.70	0.119	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#0	0.116	0.069	0.19	21.66	22.70	0.147	Battery 2#	/
Back Side	15mm	132072/1720	20M QPSK 1RB#50	0.161	0.094	0.00	21.55	22.70	0.210	Battery 1#	Yes
Back Side	15mm	132572/1770	20M QPSK 1RB#99	0.115	0.065	0.05	21.54	22.70	0.150	Battery 1#	/
Back Side	15mm	132072/1720	20M QPSK 1RB#50	0.069	0.042	-0.06	21.55	22.70	0.090	With Wireless Charging Cover	/
Main Antenna											
Front Side	15mm	132322/1745	20M QPSK 1RB#0	0.226	0.143	-0.17	22.48	23.70	0.299	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#0	0.297	0.195	-0.03	22.48	23.70	0.393	Battery 1#	Yes
Front Side	15mm	132072/1720	20M QPSK 50%RB#0	0.194	0.123	-0.12	21.75	22.70	0.241	Battery 1#	/
Back Side	15mm	132072/1720	20M QPSK 50%RB#0	0.260	0.251	-0.10	21.75	22.70	0.324	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#0	0.295	0.191	-0.05	22.48	23.70	0.391	Battery 2#	/
Back Side	15mm	132072/1720	20M QPSK 1RB#0	0.284	0.185	-0.13	22.41	23.70	0.382	Battery 1#	/
Back Side	15mm	132572/1770	20M QPSK 1RB#50	0.289	0.156	-0.10	22.40	23.70	0.390	Battery 1#	/
Back Side	15mm	132322/1745	20M QPSK 1RB#0	0.130	0.077	-0.05	22.48	23.70	0.172	With Wireless Charging Cover	/

Table 176: Body Worn SAR test results of LTE Band 66

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g						
Second Antenna											
Front Side	10mm	132072/1720	20M QPSK 1RB#50	0.082	0.043	-0.18	17.53	18.70	0.107	Battery 1#	/
Back Side	10mm	132072/1720	20M QPSK 1RB#50	0.113	0.064	0.10	17.53	18.70	0.148	Battery 1#	/
Left Side	10mm	132072/1720	20M QPSK 1RB#50	0.021	0.012	0.14	17.53	18.70	0.027	Battery 1#	/
Top Side	10mm	132072/1720	20M QPSK 1RB#50	0.179	0.095	0.13	17.53	18.70	0.234	Battery 1#	/
Front Side	10mm	132322/1745	20M QPSK 50%RB#50	0.070	0.038	-0.04	17.40	18.70	0.094	Battery 1#	/
Back Side	10mm	132322/1745	20M QPSK 50%RB#50	0.093	0.053	-0.05	17.40	18.70	0.126	Battery 1#	/
Left Side	10mm	132322/1745	20M QPSK 50%RB#50	0.024	0.013	0.19	17.40	18.70	0.033	Battery 1#	/
Top Side	10mm	132322/1745	20M QPSK 50%RB#50	0.174	0.092	0.15	17.40	18.70	0.235	Battery 1#	/
Top Side	10mm	132322/1745	20M QPSK 50%RB#50	0.179	0.094	0.15	17.40	18.70	0.241	Battery 2#	/
Top Side	10mm	132072/1720	20M QPSK 50%RB#25	0.187	0.098	0.12	17.37	18.70	0.254	Battery 2#	Yes
Top Side	10mm	132572/1770	20M QPSK 50%RB#50	0.159	0.084	0.11	17.36	18.70	0.216	Battery 2#	/
Top Side	10mm	132072/1720	20M QPSK 50%RB#25	0.138	0.075	0.15	17.37	18.70	0.187	With Wireless Charging Cover	/
Main Antenna											
Front Side	10mm	132322/1745	20M QPSK 1RB#0	0.310	0.201	0.00	21.46	22.70	0.412	Battery 1#	/
Back Side	10mm	132322/1745	20M QPSK 1RB#0	0.366	0.224	0.00	21.46	22.70	0.487	Battery 1#	/
Right Side	10mm	132322/1745	20M QPSK 1RB#0	0.176	0.094	0.19	21.46	22.70	0.234	Battery 1#	/
Bottom Side	10mm	132322/1745	20M QPSK 1RB#0	0.448	0.255	0.09	21.46	22.70	0.596	Battery 1#	/
Front Side	10mm	132072/1720	20M QPSK 50%RB#0	0.305	0.194	-0.12	21.62	22.70	0.391	Battery 1#	/
Back Side	10mm	132072/1720	20M QPSK 50%RB#0	0.380	0.230	-0.11	21.62	22.70	0.487	Battery 1#	/
Right Side	10mm	132072/1720	20M QPSK 50%RB#0	0.205	0.108	0.13	21.62	22.70	0.263	Battery 1#	/
Bottom Side	10mm	132072/1720	20M QPSK 50%RB#0	0.422	0.240	0.16	21.62	22.70	0.541	Battery 1#	/
Bottom Side	10mm	132322/1745	20M QPSK 1RB#0	0.453	0.257	0.15	21.46	22.70	0.603	Battery 2#	Yes
Bottom Side	10mm	132072/1720	20M QPSK 1RB#0	0.382	0.219	0.06	21.37	22.70	0.519	Battery 2#	/
Bottom Side	10mm	132572/1770	20M QPSK 1RB#50	0.424	0.240	0.13	21.39	22.70	0.573	Battery 2#	/
Bottom Side	10mm	132322/1745	20M QPSK 1RB#0	0.219	0.127	0.13	21.46	22.70	0.291	With Wireless Charging Cover	/

Table 177: Hotspot SAR test results of LTE Band 66

Per KDB648474 D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Conducted Power (dBm)	Max Power Without Reduction	Scaled-up 1-g SAR (W/kg)	Product Specific 10-g SAR Exclusion
				1-g	10-g					
Second Antenna										
Front Side	10mm	132072/1720	20M QPSK 1RB#50	0.082	0.043	-0.18	17.53	22.70	0.270	Yes
Back Side	10mm	132072/1720	20M QPSK 1RB#50	0.113	0.064	0.10	17.53	22.70	0.372	Yes
Left Side	10mm	132072/1720	20M QPSK 1RB#50	0.021	0.012	0.14	17.53	22.70	0.068	Yes
Top Side	10mm	132072/1720	20M QPSK 1RB#50	0.179	0.095	0.13	17.53	22.70	0.589	Yes
Front Side	10mm	132322/1745	20M QPSK 50%RB#50	0.070	0.038	-0.04	17.40	21.70	0.188	Yes
Back Side	10mm	132322/1745	20M QPSK 50%RB#50	0.093	0.053	-0.05	17.40	21.70	0.251	Yes
Left Side	10mm	132322/1745	20M QPSK 50%RB#50	0.024	0.013	0.19	17.40	21.70	0.066	Yes
Top Side	10mm	132322/1745	20M QPSK 50%RB#50	0.174	0.092	0.15	17.40	21.70	0.468	Yes
Top Side	10mm	132322/1745	20M QPSK 50%RB#50	0.179	0.094	0.15	17.40	21.70	0.482	Yes
Top Side	10mm	132072/1720	20M QPSK 50%RB#25	0.187	0.098	0.12	17.37	21.70	0.507	Yes
Top Side	10mm	132572/1770	20M QPSK 50%RB#50	0.159	0.084	0.11	17.36	21.70	0.432	Yes
Top Side	10mm	132072/1720	20M QPSK 50%RB#25	0.138	0.075	0.15	17.37	21.70	0.374	Yes
Main Antenna										
Front Side	10mm	132322/1745	20M QPSK 1RB#0	0.310	0.201	0.00	21.46	23.70	0.519	Yes
Back Side	10mm	132322/1745	20M QPSK 1RB#0	0.366	0.224	0.00	21.46	23.70	0.613	Yes
Right Side	10mm	132322/1745	20M QPSK 1RB#0	0.176	0.094	0.19	21.46	23.70	0.295	Yes
Bottom Side	10mm	132322/1745	20M QPSK 1RB#0	0.448	0.255	0.09	21.46	23.70	0.750	Yes
Front Side	10mm	132072/1720	20M QPSK 50%RB#0	0.305	0.194	-0.12	21.62	22.70	0.391	Yes
Back Side	10mm	132072/1720	20M QPSK 50%RB#0	0.380	0.230	-0.11	21.62	22.70	0.487	Yes
Right Side	10mm	132072/1720	20M QPSK 50%RB#0	0.205	0.108	0.13	21.62	22.70	0.263	Yes
Bottom Side	10mm	132072/1720	20M QPSK 50%RB#0	0.422	0.240	0.16	21.62	22.70	0.541	Yes
Bottom Side	10mm	132322/1745	20M QPSK 1RB#0	0.453	0.257	0.15	21.46	23.70	0.759	Yes
Bottom Side	10mm	132072/1720	20M QPSK 1RB#0	0.382	0.219	0.06	21.37	23.70	0.653	Yes
Bottom Side	10mm	132572/1770	20M QPSK 1RB#50	0.424	0.240	0.13	21.39	23.70	0.722	Yes
Bottom Side	10mm	132322/1745	20M QPSK 1RB#0	0.219	0.127	0.13	21.46	23.70	0.367	Yes

Table 178: Product Specific 10-g SAR test reduction evaluation of LTE Band 66

Note: According to the table above, Product Specific 10-g SAR test is not required for this frequency band.

### 7.2.15 SAR measurement Results of WiFi 2.4G

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Ant5(Core0)													
Left cheek	6/2437	802.11b	0.157	0.158	0.070	-0.02	99%	0.160	10.51	11.00	0.179	Battery 1#	/
Left tilt	6/2437	802.11b	0.185	0.223	0.089	0.02	99%	0.225	10.51	11.00	0.252	Battery 1#	/
Right cheek	6/2437	802.11b	0.055	/	/	0.00	99%	/	10.51	11.00	/	Battery 1#	/
Right tilt	6/2437	802.11b	0.069	/	/	-0.04	99%	/	10.51	11.00	/	Battery 1#	/
Left tilt	6/2437	802.11b	0.140	0.121	0.057	-0.01	99%	0.122	10.51	11.00	0.137	Battery 2#	/
Left tilt	1/2412	802.11b	0.197	0.178	0.074	0.04	99%	0.180	10.23	11.00	0.215	Battery 1#	/
Left tilt	11/2462	802.11b	0.241	0.282	0.119	0.01	99%	0.285	10.50	11.00	0.320	Battery 1#	Yes
Left tilt	11/2462	802.11b	0.210	0.198	0.091	-0.09	99%	0.200	10.50	11.00	0.224	With Wireless Charging Cover	/
Ant6(Core1)													
Left cheek	6/2437	802.11b	0.000	/	/	0.08	99%	/	10.56	11.00	/	Battery 1#	/
Left tilt	6/2437	802.11b	0.003	/	/	-0.12	99%	/	10.56	11.00	/	Battery 1#	/
Right cheek	6/2437	802.11b	0.021	0.010	0.002	0.15	99%	0.010	10.56	11.00	0.011	Battery 1#	/
Right tilt	6/2437	802.11b	0.012	/	/	-0.07	99%	/	10.56	11.00	/	Battery 1#	/
Right cheek	6/2437	802.11b	0.015	0.014	0.004	-0.11	99%	0.014	10.56	11.00	0.016	Battery 2#	/
Right cheek	1/2412	802.11b	0.028	0.022	0.008	0.01	99%	0.022	10.49	11.00	0.024	Battery 1#	Yes
Right cheek	11/2462	802.11b	0.022	0.006	0.002	-0.10	99%	0.006	10.55	11.00	0.006	Battery 1#	/
Right cheek	1/2412	802.11b	0.016	0.016	0.004	0.00	99%	0.016	10.49	11.00	0.019	With Wireless Charging Cover	/

Table 179: Head SAR test results of WiFi 2.4G SISO

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Ant5(Core0)													
Left cheek	6/2437	802.11n(40M)	0.205	0.187	0.086	0.08	97%	0.193	10.20	11.00	0.232	Battery 1#	/
Left tilt	6/2437	802.11n(40M)	0.207	0.206	0.086	-0.04	97%	0.212	10.20	11.00	0.255	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.076	/	/	0.16	97%	/	10.20	11.00	/	Battery 1#	/
Right tilt	6/2437	802.11n(40M)	0.099	0.118	0.057	-0.09	97%	0.122	10.20	11.00	0.146	Battery 1#	/
Left tilt	6/2437	802.11n(40M)	0.234	0.243	0.099	-0.02	97%	0.251	10.20	11.00	0.301	Battery 2#	/
Left tilt	4/2427	802.11n(40M)	0.180	0.219	0.086	0.04	97%	0.226	10.19	11.00	0.272	Battery 2#	/
Left tilt	5/2432	802.11n(40M)	0.181	0.220	0.087	0.04	97%	0.227	10.18	11.00	0.274	Battery 2#	/
Left tilt	6/2437	802.11n(40M)	0.181	0.221	0.087	-0.04	97%	0.228	10.20	11.00	0.274	With Wireless Charging Cover	/
Ant6(Core1)													
Left cheek	6/2437	802.11n(40M)	0.002	/	/	0.18	97%	/	10.25	11.00	/	Battery 1#	/
Left tilt	6/2437	802.11n(40M)	0.001	/	/	-0.13	97%	/	10.25	11.00	/	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.020	0.017	0.006	0.11	97%	0.017	10.25	11.00	0.021	Battery 1#	/
Right tilt	6/2437	802.11n(40M)	0.020	0.011	0.004	-0.10	97%	0.012	10.25	11.00	0.014	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.018	0.007	0.002	-0.09	97%	0.008	10.25	11.00	0.009	Battery 2#	/
Right cheek	4/2427	802.11n(40M)	0.016	0.014	0.005	0.00	97%	0.015	10.19	11.00	0.018	Battery 1#	/
Right cheek	5/2432	802.11n(40M)	0.018	0.014	0.005	0.00	97%	0.015	10.15	11.00	0.018	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.014	0.008	0.002	0.00	97%	0.008	10.25	11.00	0.010	With Wireless Charging Cover	/

Table 180: Head SAR test results of WiFi 2.4G MIMO

Note:

- 1) Per KDB248227D01, for Head SAR test of WiFi 2.4G CDD/MIMO, SAR is measured for 2.4 GHz OFDM 802.11n(40M) using the initial test position procedure. The highest reported SAR for OFDM 802.11n(40M) is adjusted by the ratio of OFDM 802.11g and OFDM 802.11n(20M) to OFDM 802.11n(40M) specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g and 802.11n(20M) is not required.
- 2) As different maximum tune-up output power is specified across the different channels range, WIFI 2.4G CDD/MIMO SAR test is performed on 4CH/5CH/6CH according to the max tune-up power to ensure compliance.

Test Position of Head	Dist.	Test Mode	WiFi 2.4G CDD/MIMO 1-g SAR (W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	CDD/MIMO (Ant 5(Core 0)+ Ant 6(Core 1))
Left cheek	/	802.11n(40M)	0.232	0.021	0.253
Left tilt	/	802.11n(40M)	0.301	0.021	0.322
Right cheek	/	802.11n(40M)	0.301	0.021	0.322
Right tilt	/	802.11n(40M)	0.146	0.014	0.160

Table 181: Head SAR test results of WiFi 2.4G CDD/MIMO calculation

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
					1-g	10-g								
Ant5(Core0)														
Front Side	15mm	6/2437	802.11b	0.061	/	/	-0.17	99%	/	18.19	19.00	/	Battery 1#	/
Back Side	15mm	6/2437	802.11b	0.070	0.073	0.044	-0.19	99%	0.073	18.19	19.00	0.088	Battery 1#	/
Back Side	15mm	6/2437	802.11b	0.075	0.077	0.047	-0.19	99%	0.078	18.19	19.00	0.094	Battery 2#	/
Back Side	15mm	2/2417	802.11b	0.089	0.093	0.057	-0.15	99%	0.093	18.15	19.00	0.114	Battery 2#	Yes
Back Side	15mm	11/2462	802.11b	0.075	0.075	0.046	-0.14	99%	0.076	18.03	19.00	0.095	Battery 2#	/
Back Side	15mm	2/2417	802.11b	0.081	0.086	0.054	-0.18	99%	0.087	18.15	19.00	0.106	With Wireless Charging Cover	/
Ant6(Core1)														
Front Side	15mm	6/2437	802.11b	0.007	/	/	-0.12	99%	/	18.20	18.50	/	Battery 1#	/
Back Side	15mm	6/2437	802.11b	0.052	0.055	0.028	-0.12	99%	0.055	18.20	18.50	0.059	Battery 1#	/
Back Side	15mm	6/2437	802.11b	0.065	0.068	0.033	-0.06	99%	0.068	18.20	18.50	0.073	Battery 2#	/
Back Side	15mm	2/2417	802.11b	0.083	0.089	0.043	-0.17	99%	0.090	18.18	18.50	0.097	Battery 2#	Yes
Back Side	15mm	11/2462	802.11b	0.053	0.057	0.029	-0.11	99%	0.058	18.14	18.50	0.063	Battery 2#	/
Back Side	15mm	2/2417	802.11b	0.020	0.022	0.012	-0.19	99%	0.022	18.18	18.50	0.024	With Wireless Charging Cover	/

Table 182: Body Worn SAR test results of WiFi 2.4G SISO

Note:

- 1) Per KDB248227D01, for Body SAR test of WiFi 2.4G SISO, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11n is not required.
- 2) As different maximum tune-up output power is specified across the different channels range, WIFI 2.4G SISO SAR test is performed on 2CH/6CH/11CH according to the max tune-up power to ensure compliance.

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
					1-g	10-g								
Ant5(Core0)														
Front Side	15mm	6/2437	802.11g	0.059	/	/	0.18	99%	/	17.28	18.00	/	Battery 1#	/
Back Side	15mm	6/2437	802.11g	0.065	0.067	0.041	-0.19	99%	0.068	17.28	18.00	0.080	Battery 1#	/
Back Side	15mm	6/2437	802.11g	0.059	0.062	0.038	-0.13	99%	0.062	17.28	18.00	0.074	Battery 2#	/
Back Side	15mm	2/2417	802.11g	0.058	0.060	0.036	-0.14	99%	0.060	17.17	18.00	0.073	Battery 1#	/
Back Side	15mm	10/2457	802.11g	0.085	0.090	0.056	0.16	99%	0.091	17.03	18.00	0.114	Battery 1#	/
Back Side	15mm	10/2457	802.11g	0.055	0.056	0.036	-0.01	99%	0.057	17.03	18.00	0.071	With Wireless Charging Cover	/
Ant6(Core1)														
Front Side	15mm	6/2437	802.11g	0.006	/	/	-0.19	99%	/	17.10	17.50	/	Battery 1#	/
Back Side	15mm	6/2437	802.11g	0.054	0.054	0.027	-0.12	99%	0.055	17.10	17.50	0.060	Battery 1#	/
Back Side	15mm	6/2437	802.11g	0.044	0.047	0.023	0.13	99%	0.048	17.10	17.50	0.052	Battery 2#	/
Back Side	15mm	2/2417	802.11g	0.055	0.057	0.029	-0.06	99%	0.057	17.09	17.50	0.063	Battery 1#	/
Back Side	15mm	10/2457	802.11g	0.052	0.053	0.027	-0.05	99%	0.053	17.05	17.50	0.059	Battery 1#	/
Back Side	15mm	2/2417	802.11g	0.023	0.024	0.013	-0.02	99%	0.024	17.09	17.50	0.026	With Wireless Charging Cover	/

Table 183: Body Worn SAR test results of WiFi 2.4G CDD

Note:

- 1) Per KDB248227D01, for Head SAR test of WiFi 2.4G CDD/MIMO, SAR is measured for 2.4 GHz OFDM 802.11g using the initial test position procedure. The highest reported SAR for OFDM 802.11g is adjusted by the ratio of OFDM 802.11n(20M) and OFDM 802.11n(40M) to OFDM 802.11g specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11 n(20M) and 802.11n(40M) is not required.
- 2) As different maximum tune-up output power is specified across the different channels range, WIFI 2.4G CDD/MIMO SAR test is performed on 2CH/6CH/10CH according to the max tune-up power to ensure compliance.

Test Position of Body-Worn	Dist.	Test Mode	WiFi 2.4G CDD/MIMO 1-g SAR(W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	CDD/MIMO (Ant 5(Core 0)+ Ant 6(Core 1))
Front Side	15mm	802.11g	0.114	0.063	0.177
Back Side	15mm	802.11g	0.114	0.063	<b>0.177</b>

Table 184: Body Worn SAR test results of WiFi 2.4G CDD calculation

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Max Power Without Reduction	Scaled-up 1-g SAR (W/kg)	Product Specific 10-g SAR Exclusion
					1-g	10-g							
Ant5(Core0)													
Front Side	10mm	6/2437	802.11b	0.104	/	/	-0.07	99%	/	18.19	19.00	/	Yes
Back Side	10mm	6/2437	802.11b	0.115	0.120	0.072	-0.06	99%	0.121	18.19	19.00	0.145	Yes
Right Side	10mm	6/2437	802.11b	0.077	/	/	-0.18	99%	/	18.19	19.00	/	Yes
Top Side	10mm	6/2437	802.11b	0.186	0.190	0.102	-0.03	99%	0.192	18.19	19.00	0.229	Yes
Top Side	10mm	6/2437	802.11b	0.212	0.201	0.110	-0.16	99%	0.203	18.19	19.00	0.242	Yes
Top Side	10mm	2/2417	802.11b	0.173	0.178	0.095	-0.04	99%	0.180	18.15	19.00	0.216	Yes
Top Side	10mm	11/2462	802.11b	0.223	0.226	0.124	-0.07	99%	0.228	18.03	19.00	0.283	Yes
Top Side	10mm	11/2462	802.11b	0.188	0.180	0.100	-0.13	99%	0.182	18.03	19.00	0.225	Yes
Ant6(Core1)													
Front Side	10mm	6/2437	802.11b	0.009	/	/	-0.11	99%	/	18.20	18.50	/	Yes
Back Side	10mm	6/2437	802.11b	0.141	0.151	0.066	-0.09	99%	0.153	18.20	18.50	0.162	Yes
Left Side	10mm	6/2437	802.11b	0.050	/	/	-0.18	99%	/	18.20	18.50	/	Yes
Top Side	10mm	6/2437	802.11b	0.011	/	/	-0.14	99%	/	18.20	18.50	/	Yes
Back Side	10mm	6/2437	802.11b	0.148	0.160	0.070	-0.130	99%	0.162	18.20	18.50	0.171	Yes
Back Side	10mm	2/2417	802.11b	0.159	0.179	0.079	-0.11	99%	0.181	18.18	18.50	0.193	Yes
Back Side	10mm	11/2462	802.11b	0.124	0.137	0.061	-0.06	99%	0.138	18.14	18.50	0.149	Yes
Back Side	10mm	2/2417	802.11b	0.054	0.057	0.028	-0.10	99%	0.057	18.18	18.50	0.061	Yes

Table 185: Hotspot SAR test results of WiFi 2.4G SISO

- 1) Per KDB248227D01, for Hotspot SAR test of WiFi 2.4G SISO, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.
- 2) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for WiFi 2.4G SISO since hotspot mode 1-g reported SAR < 1.2 W/kg.
- 3) WiFi 2.4G CDD/MIMO does not support hotspot function.
- 4) As different maximum tune-up output power is specified across the different channels range, WIFI 2.4G SISO 11b SAR test is performed on 2CH/6CH/11CH according to the max tune-up power to ensure compliance.

Limbs With 0mm	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 10-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 10-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 10-g SAR (W/kg)	Accessory Information	SAR Plot.
					1-g	10-g								
An5(Core0)														
Front Side	0mm	6/2437	802.11g	0.731	1.220	0.610	0.10	99%	0.616	17.28	18.00	0.727	Battery 1#	/
Back Side	0mm	6/2437	802.11g	0.382	0.831	0.407	0.12	99%	0.411	17.28	18.00	0.485	Battery 1#	/
Left Side	0mm	6/2437	802.11g	0.037	0.072	0.037	0.05	99%	0.037	17.28	18.00	0.044	Battery 1#	/
Right Side	0mm	6/2437	802.11g	0.231	0.661	0.199	-0.15	99%	0.201	17.28	18.00	0.237	Battery 1#	/
Top Side	0mm	6/2437	802.11g	0.986	2.560	0.957	-0.16	99%	0.967	17.28	18.00	1.141	Battery 1#	/
Top Side	0mm	6/2437	802.11g	1.030	2.790	1.060	0.14	99%	1.071	17.28	18.00	1.264	Battery 2#	Yes
Top Side	0mm	2/2417	802.11g	0.762	2.030	0.746	0.13	99%	0.754	17.17	18.00	0.912	Battery 2#	/
Top Side	0mm	10/2457	802.11g	0.720	1.870	0.720	-0.13	99%	0.727	17.03	18.00	0.909	Battery 2#	/
Top Side	0mm	6/2437	802.11g	0.526	1.250	0.533	0.13	99%	0.538	17.28	18.00	0.635	With Wireless Charging Cover	/
Ant6(Core1)														
Front Side	0mm	6/2437	802.11g	0.048	0.113	0.038	-0.16	99%	0.038	17.10	17.50	0.042	Battery 1#	/
Back Side	0mm	6/2437	802.11g	0.550	1.470	0.522	0.18	99%	0.527	17.10	17.50	0.578	Battery 1#	/
Left Side	0mm	6/2437	802.11g	0.176	0.552	0.197	-0.15	99%	0.199	17.10	17.50	0.218	Battery 1#	/
Right Side	0mm	6/2437	802.11g	0.005	/	/	-0.03	99%	/	17.10	17.50	/	Battery 1#	/
Top Side	0mm	6/2437	802.11g	0.058	0.152	0.049	-0.13	99%	0.049	17.10	17.50	0.054	Battery 1#	/
Back Side	0mm	6/2437	802.11g	0.593	1.450	0.525	-0.100	99%	0.530	17.10	17.50	0.581	Battery 2#	/
Back Side	0mm	2/2417	802.11g	0.697	1.840	0.656	0.05	99%	0.663	17.09	17.50	0.728	Battery 2#	Yes
Back Side	0mm	10/2457	802.11g	0.413	1.380	0.508	0.14	99%	0.513	17.05	17.50	0.569	Battery 2#	/
Back Side	0mm	2/2417	802.11g	0.221	0.548	0.224	0.17	99%	0.226	17.09	17.50	0.249	With Wireless Charging Cover	/

Table 186: Product Specific 10-g SAR test results of WiFi 2.4G CDD

Note:

- 1) Per KDB248227D01, for Product Specific 10-g SAR test of WiFi 2.4G CDD, SAR is measured for 2.4 GHz OFDM 802.11g using the initial test position procedure. The highest reported SAR for OFDM 802.11g is adjusted by the ratio of OFDM 802.11n(20M) and OFDM 802.11n(40M) to OFDM 802.11g specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11 n(20M) and 802.11n(40M) is not required.
- 2) As different maximum tune-up output power is specified across the different channels range, WIFI 2.4G CDD 11g SAR test is performed on 2CH/6CH/10CH according to the max tune-up power to ensure compliance.

Product Specific 10-g SAR	Dist.	Test Mode	WiFi 2.4G CDD/MIMO 10-g SAR (W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	CDD/MIMO(Ant 5(Core 0)+ Ant 6(Core 1))
Front Side	0mm	802.11g	0.727	0.042	0.769
Back Side	0mm	802.11g	0.485	0.728	1.213
Left Side	0mm	802.11g	0.044	0.218	0.262
Right Side	0mm	802.11g	0.237	0.728	0.965
Top Side	0mm	802.11g	1.264	0.054	1.318

Table 187: Product Specific 10-g SAR test results of WiFi 2.4G CDD calculation

## 7.2.16 SAR measurement Results of WiFi 5G

Test Position of Head	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
					1-g	10-g								
An5(Core0)														
Test data of U-NII-1&U-NII-2A band														
Left cheek	/	54/5270	802.11n(40M)	0.196	0.218	0.069	-0.01	98%	0.222	12.19	12.50	0.239	Battery 1#	/
Left tilt	/	54/5270	802.11n(40M)	0.219	0.214	0.067	-0.01	98%	0.218	12.19	12.50	0.235	Battery 1#	/
Right cheek	/	54/5270	802.11n(40M)	0.083	0.076	0.026	0.06	98%	0.078	12.19	12.50	0.084	Battery 1#	/
Right tilt	/	54/5270	802.11n(40M)	0.096	/	/	-0.19	98%	/	12.19	12.50	/	Battery 1#	/
Left cheek	/	54/5270	802.11n(40M)	0.163	0.193	0.058	0.06	98%	0.197	12.19	12.50	0.212	Battery 2#	/
Left cheek	/	62/5310	802.11n(40M)	0.076	0.076	0.022	0.19	98%	0.077	8.52	9.50	0.097	Battery 1#	/
Test data of U-NII-2C band														
Left cheek	/	110/5550	802.11n(40M)	0.276	0.354	0.097	-0.11	98%	0.361	11.84	12.50	0.421	Battery 1#	/
Left tilt	/	110/5550	802.11n(40M)	0.310	0.336	0.092	-0.09	98%	0.343	11.84	12.50	0.399	Battery 1#	/
Right cheek	/	110/5550	802.11n(40M)	0.149	/	/	0.11	98%	/	11.84	12.50	/	Battery 1#	/
Right tilt	/	110/5550	802.11n(40M)	0.163	0.166	0.054	-0.11	98%	0.169	11.84	12.50	0.197	Battery 1#	/
Left cheek	/	110/5550	802.11n(40M)	0.362	0.111	0.124	0.00	98%	0.113	11.84	12.50	0.132	Battery 2#	/
Left cheek	/	118/5590	802.11n(40M)	0.299	0.388	0.105	-0.07	98%	0.396	11.83	12.50	0.462	Battery 2#	/
Left cheek	/	126/5630	802.11n(40M)	0.305	0.398	0.108	-0.17	98%	0.406	11.83	12.50	0.474	Battery 2#	/
Test data of U-NII-3 band														
Left cheek	/	155/5775	802.11ac(80M)	0.206	0.309	0.081	-0.19	96%	0.322	11.40	11.50	0.329	Battery 1#	/
Left tilt	/	155/5775	802.11ac(80M)	0.482	0.588	0.154	0.15	96%	0.613	11.40	11.50	0.627	Battery 1#	Yes
Right cheek	/	155/5775	802.11ac(80M)	0.233	0.223	0.077	-0.09	96%	0.232	11.40	11.50	0.238	Battery 1#	/
Right tilt	/	155/5775	802.11ac(80M)	0.275	0.269	0.092	-0.11	96%	0.280	11.40	11.50	0.287	Battery 1#	/
Left tilt	/	155/5775	802.11ac(80M)	0.339	0.412	0.104	-0.02	96%	0.429	11.40	11.50	0.439	Battery 2#	/
Left tilt	/	155/5775	802.11ac(80M)	0.287	0.396	0.107	0.09	96%	0.413	11.40	11.50	0.422	With Wireless Charging Cover	/
Ant6(Core1)														
Test data of U-NII-1&U-NII-2A band														
Left cheek	/	54/5270	802.11n(40M)	0.039	0.029	0.009	-0.16	98%	0.030	12.38	12.50	0.031	Battery 1#	Yes
Left tilt	/	54/5270	802.11n(40M)	0.013	0.011	0.003	-0.01	98%	0.011	12.38	12.50	0.011	Battery 1#	/
Right cheek	/	54/5270	802.11n(40M)	0.071	/	/	0.18	98%	/	12.38	12.50	/	Battery 1#	/
Right tilt	/	54/5270	802.11n(40M)	0.040	/	/	-0.13	98%	/	12.38	12.50	/	Battery 1#	/
Left cheek	/	54/5270	802.11n(40M)	0.032	0.023	0.007	0.15	98%	0.024	12.38	12.50	0.024	Battery 2#	/
Left cheek	/	62/5310	802.11n(40M)	0.007	0.003	0.001	-0.11	98%	0.003	9.39	9.50	0.003	Battery 1#	/
Test data of U-NII-2C band														
Left cheek	/	110/5550	802.11n(40M)	0.014	0.013	<0.001	-0.01	98%	0.013	12.02	12.50	0.014	Battery 1#	/
Left tilt	/	110/5550	802.11n(40M)	0.005	/	/	-0.04	98%	/	12.02	12.50	/	Battery 1#	/
Right cheek	/	110/5550	802.11n(40M)	0.005	/	/	-0.06	98%	/	12.02	12.50	/	Battery 1#	/
Right tilt	/	110/5550	802.11n(40M)	0.004	/	/	0.03	98%	/	12.02	12.50	/	Battery 1#	/

Left cheek	/	110/5550	802.11n(40M)	0.020	0.012	0.003	0.00	98%	0.013	12.02	12.50	0.014	Battery 2#	/
Left cheek	/	118/5590	802.11n(40M)	0.020	0.013	0.003	0.09	98%	0.013	11.80	12.50	0.015	Battery 1#	/
Left cheek	/	126/5630	802.11n(40M)	0.020	0.013	0.003	-0.19	98%	0.013	12.01	12.50	0.015	Battery 1#	/
Test data of U-NII-3 band														
Left cheek	/	155/5775	802.11ac(80M)	0.009	0.005	0.002	0.15	96%	0.005	11.40	11.50	0.005	Battery 1#	/
Left tilt	/	155/5775	802.11ac(80M)	0.011	0.005	0.002	0.13	96%	0.006	11.40	11.50	0.006	Battery 1#	/
Right cheek	/	155/5775	802.11ac(80M)	0.015	0.012	0.002	0.17	96%	0.012	11.40	11.50	0.013	Battery 1#	/
Right tilt	/	155/5775	802.11ac(80M)	0.004	/	/	-0.01	96%	/	11.40	11.50	/	Battery 1#	/
Right cheek	/	155/5775	802.11ac(80M)	0.015	0.011	0.002	0.12	96%	0.012	11.40	11.50	0.012	Battery 2#	/
Left cheek	/	54/5270	802.11n(40M)	0.021	0.008	0.003	0.09	98%	0.008	12.38	12.50	0.008	With Wireless Charging Cover	/

Table 188: Head SAR test results of WiFi 5G

Note:

- 1) Per KDB248227D01, for Head SAR test of WiFi 5G U-NII-2A, SAR is measured for 802.11ac (80M) OFDM using the initial test position procedure. The highest reported SAR is adjusted by the ratio of other WiFi 5G modes to 802.11ac (80M) specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 2) Per KDB248227D01, for Head SAR test of WiFi 5G U-NII-2C, SAR is measured for 802.11ac(160M) OFDM using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 8 other WiFi 5G modes to 802.11ac (160M)specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 3) Per KDB248227D01, for Head SAR test of WiFi 5G U-NII-2A, SAR is measured for 802.11ac (80M) OFDM using the initial test position procedure. The highest reported SAR is adjusted by the ratio of other WiFi 5G modes to 802.11ac (80M) specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G mode is not required.
- 4) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition).

Test Position of Head	Dist.	Test Mode	WiFi 1-g SAR (W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	MIMO(Ant 5(Core 0)+Ant 6(Core 1))
CDD/MIMO					
U-NII-1&U-NII-2A band					
Left cheek	/	802.11n(40M)	0.239	0.031	0.270
Left tilt	/	802.11n(40M)	0.235	0.011	0.246
Right cheek	/	802.11n(40M)	0.084	0.031	0.115
Right tilt	/	802.11n(40M)	0.239	0.031	0.270
U-NII-2C band					
Left cheek	/	802.11n(40M)	0.421	0.014	0.435
Left tilt	/	802.11n(40M)	0.399	0.014	0.413
Right cheek	/	802.11n(40M)	0.421	0.014	0.435
Right tilt	/	802.11n(40M)	0.197	0.014	0.211
U-NII-3 band					
Left cheek	/	802.11ac(80M)	0.329	0.005	0.334

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Left tilt	/	802.11ac(80M)	0.627	0.006	0.633
Right cheek	/	802.11ac(80M)	0.238	0.013	0.251
Right tilt	/	802.11ac(80M)	0.287	0.013	0.300

Table 189: Head SAR of WiFi 5G CDD/MIMO

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
					1-g	10-g								
An5(Core0)														
Test data of U-NII-1&U-NII-2A band														
Front Side	15mm	56/5280	802.11a	0.038	/	/	-0.12	99%	/	16.89	17.00	/	Battery 1#	/
Back Side	15mm	56/5280	802.11a	0.042	0.034	0.014	-0.13	99%	0.034	16.89	17.00	0.035	Battery 1#	/
Back Side	15mm	56/5280	802.11a	0.033	0.029	0.012	-0.01	99%	0.030	16.89	17.00	0.030	Battery 2#	/
Back Side	15mm	52/5260	802.11a	0.031	0.031	0.012	-0.19	99%	0.031	16.74	17.00	0.033	Battery 1#	/
Back Side	15mm	60/5300	802.11a	0.041	0.040	0.017	-0.04	99%	0.040	16.88	17.00	0.042	Battery 1#	/
Test data of U-NII-2C band														
Front Side	15mm	116/5580	802.11a	0.079	0.074	0.031	-0.18	99%	0.075	16.89	17.00	0.077	Battery 1#	/
Back Side	15mm	116/5580	802.11a	0.135	0.142	0.056	-0.09	99%	0.143	16.89	17.00	0.147	Battery 1#	/
Back Side	15mm	116/5580	802.11a	0.205	0.209	0.082	0.09	99%	0.211	16.89	17.00	0.217	Battery 2#	/
Back Side	15mm	104/5520	802.11a	0.144	0.149	0.064	0.01	99%	0.151	16.58	17.00	0.166	Battery 1#	/
Back Side	15mm	136/5680	802.11a	0.202	0.211	0.086	-0.03	99%	0.213	16.88	17.00	0.219	Battery 1#	Yes
Test data of U-NII-3 band														
Front Side	15mm	155/5775	802.11ac(80M)	0.029	/	/	-0.13	96%	/	11.35	11.50	/	Battery 1#	/
Back Side	15mm	155/5775	802.11ac(80M)	0.050	0.045	0.017	-0.08	96%	0.047	11.35	11.50	0.048	Battery 1#	/
Back Side	15mm	155/5775	802.11ac(80M)	0.045	0.043	0.016	0.09	96%	0.045	11.35	11.50	0.046	Battery 2#	/
Back Side	15mm	136/5680	802.11a	0.139	0.144	0.056	-0.04	99%	0.145	16.88	17.00	0.150	With Wireless Charging Cover	/
Ant6(Core1)														
Test data of U-NII-1&U-NII-2A band														
Front Side	15mm	56/5280	802.11a	0.006	/	/	0.17	99%	/	16.32	16.50	/	Battery 1#	/
Back Side	15mm	56/5280	802.11a	0.068	0.062	0.026	0.11	99%	0.062	16.32	16.50	0.065	Battery 1#	/
Back Side	15mm	56/5280	802.11a	0.077	0.061	0.026	-0.14	99%	0.062	16.32	16.50	0.065	Battery 2#	/
Back Side	15mm	52/5260	802.11a	0.059	0.058	0.024	-0.13	99%	0.059	16.31	16.50	0.061	Battery 1#	/
Back Side	15mm	60/5300	802.11a	0.083	0.078	0.027	0.02	99%	0.078	16.30	16.50	0.082	Battery 1#	Yes
Test data of U-NII-2C band														
Front Side	15mm	116/5580	802.11a	0.008	/	/	-0.11	99%	/	16.32	16.50	/	Battery 1#	/
Back Side	15mm	116/5580	802.11a	0.021	0.025	0.011	-0.01	99%	0.025	16.32	16.50	0.026	Battery 1#	/
Back Side	15mm	116/5580	802.11a	0.025	0.024	0.009	-0.08	99%	0.024	16.32	16.50	0.025	Battery 2#	/
Back Side	15mm	104/5520	802.11a	0.036	0.035	0.014	-0.02	99%	0.035	16.31	16.50	0.037	Battery 1#	/
Back Side	15mm	136/5680	802.11a	0.036	0.041	0.016	0.02	99%	0.041	16.31	16.50	0.043	Battery 1#	/
Test data of U-NII-3 band														
Front Side	15mm	155/5775	802.11ac(80M)	0.011	/	/	0.06	96%	/	10.72	11.50	/	Battery 1#	/
Back Side	15mm	155/5775	802.11ac(80M)	0.017	0.010	0.004	-0.19	96%	0.010	10.72	11.50	0.012	Battery 1#	/
Back Side	15mm	155/5775	802.11ac(80M)	0.016	0.011	0.004	-0.07	96%	0.011	10.72	11.50	0.014	Battery 2#	/

Back Side	15mm	60/5300	802.11a	0.055	0.055	0.024	-0.16	99%	0.055	16.30	16.50	0.058	With Wireless Charging Cover	/
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Table 190: Body Worn SAR test results of WiFi 5G SISO

1) Per KDB248227D01, for Body-Worn SAR test of WiFi 5G , SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR for 802.11a is adjusted by the ratio of other WiFi 5G modes to 802.11a specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G modes are not required.

2) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is  $\leq$  1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition);

3) Per KDB 248227D01v02, simultaneous transmission provisions in KDB Publication 447498 should be used to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1-g SAR single transmission SAR measurement is <1.6W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation

Test Position of Body-Worn	Dist.	Test Mode	WiFi 5G CDD/MIMO 1-g SAR (W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	CDD/MIMO(Ant 5(Core 0)+Ant 6(Core 1))
Test data of U-NII-1&U-NII-2A band					
Front Side	15mm	802.11a	0.042	0.082	0.124
Back Side	15mm	802.11a	0.042	0.082	0.124
U-NII-2C band					
Front Side	15mm	802.11a	0.077	0.043	0.120
Back Side	15mm	802.11a	0.219	0.043	<b>0.262</b>
U-NII-3 band					
Front Side	15mm	802.11a	0.048	0.014	0.062
Back Side	15mm	802.11a	0.048	0.014	0.062

Table 191: Body Worn SAR of WiFi 5G CDD calculation

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Area Scan 1-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
					1-g	10-g								
An5(Core0)														
Test data of U-NII-1 band														
Front Side	10mm	44/5220	802.11a	0.050	/	/	-0.16	99%	/	16.63	17.00	/	Battery 1#	/
Back Side	10mm	44/5220	802.11a	0.064	0.066	0.025	0.07	99%	0.067	16.63	17.00	0.073	Battery 1#	/
Left Side	10mm	44/5220	802.11a	0.016	/	/	0.19	99%	/	16.63	17.00	/	Battery 1#	/
Right Side	10mm	44/5220	802.11a	0.023	/	/	0.00	99%	/	16.63	17.00	/	Battery 1#	/
Top Side	10mm	44/5220	802.11a	0.074	0.082	0.028	0.01	99%	0.083	16.63	17.00	0.090	Battery 1#	/
Top Side	10mm	44/5220	802.11a	0.100	0.107	0.037	-0.01	99%	0.108	16.63	17.00	0.118	Battery 2#	Yes
Top Side	10mm	40/5200	802.11a	0.085	0.092	0.034	-0.12	99%	0.093	16.60	17.00	0.102	Battery 2#	/
Top Side	10mm	48/5240	802.11a	0.083	0.087	0.031	-0.17	99%	0.087	16.60	17.00	0.096	Battery 2#	/
Test data of U-NII-3 band														
Front Side	10mm	155/5775	802.11ac(80M)	0.037	/	/	-0.06	96%	/	11.35	11.50	/	Battery 1#	/
Back Side	10mm	155/5775	802.11ac(80M)	0.075	/	/	0.05	96%	/	11.35	11.50	/	Battery 1#	/
Left Side	10mm	155/5775	802.11ac(80M)	0.023	/	/	0.10	96%	/	11.35	11.50	/	Battery 1#	/
Right Side	10mm	155/5775	802.11ac(80M)	0.040	/	/	-0.10	96%	/	11.35	11.50	/	Battery 1#	/
Top Side	10mm	155/5775	802.11ac(80M)	0.101	0.106	0.036	0.01	96%	0.110	11.35	11.50	0.114	Battery 1#	/
Top Side	10mm	155/5775	802.11ac(80M)	0.099	0.106	0.035	0.06	96%	0.110	11.35	11.50	0.114	Battery 2#	/
Top Side	10mm	44/5220	802.11a	0.082	0.086	0.033	-0.03	99%	0.087	16.63	17.00	0.094	With Wireless Charging Cover	/
Ant6(Core1)														
Test data of U-NII-1 band														
Front Side	10mm	44/5220	802.11a	0.023	/	/	-0.15	99%	/	16.32	16.50	/	Battery 1#	/
Back Side	10mm	44/5220	802.11a	0.131	0.148	0.045	-0.18	99%	0.149	16.32	16.50	0.156	Battery 1#	/
Left Side	10mm	44/5220	802.11a	0.032	0.033	0.011	-0.06	99%	0.033	16.32	16.50	0.035	Battery 1#	/
Right Side	10mm	44/5220	802.11a	0.012	/	/	0.16	99%	/	16.32	16.50	/	Battery 1#	/
Top Side	10mm	44/5220	802.11a	0.034	0.027	0.011	0.01	99%	0.027	16.32	16.50	0.028	Battery 1#	/
Back Side	10mm	44/5220	802.11a	0.178	0.221	0.061	-0.06	99%	0.223	16.32	16.50	0.233	Battery 2#	Yes
Back Side	10mm	40/5200	802.11a	0.163	0.204	0.058	-0.12	99%	0.206	16.31	16.50	0.215	Battery 2#	/
Back Side	10mm	48/5240	802.11a	0.115	0.133	0.041	-0.08	99%	0.134	16.31	16.50	0.140	Battery 2#	/
Test data of U-NII-3 band														
Front Side	10mm	155/5775	802.11ac(80M)	0.006	/	/	0.11	96%	/	10.72	11.50	/	Battery 1#	/
Back Side	10mm	155/5775	802.11ac(80M)	0.022	0.015	0.005	-0.13	96%	0.016	10.72	11.50	0.019	Battery 1#	/
Left Side	10mm	155/5775	802.11ac(80M)	0.014	0.013	0.006	-0.15	96%	0.013	10.72	11.50	0.016	Battery 1#	/
Right Side	10mm	155/5775	802.11ac(80M)	0.011	/	/	0.12	96%	/	10.72	11.50	/	Battery 1#	/
Top Side	10mm	155/5775	802.11ac(80M)	0.007	/	/	0.11	96%	/	10.72	11.50	/	Battery 1#	/
Back Side	10mm	155/5775	802.11ac(80M)	0.027	0.020	0.007	-0.18	96%	0.021	10.72	11.50	0.025	Battery 2#	/

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Back Side	10mm	44/5220	802.11a	0.073	0.074	0.028	0.12	99%	0.074	16.32	16.50	0.077	With Wireless Charging Cover	/
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Table 192: Hotspot SAR test results of WiFi 5G SISO

Note:

- 1) Per KDB248227D01, for Body-Worn SAR test of WiFi 5G , SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR for 802.11a is adjusted by the ratio of other WiFi 5G modes to 802.11a specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for other WiFi 5G modes are not required.
- 2) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for U-NII-1 and U-NII-3 since hotspot mode 1-g reported SAR < 1.2 W/kg.
- 3) The device do not support hotspot function at U-NII-2A & U-NII-2C band.
- 4) Per KDB 248227D01v02, simultaneous transmission provisions in KDB Publication 447498 should be used to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1-g SAR single transmission SAR measurement is <1.6W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation

Test Position of Hotspot	Dist.	Test Mode	WiFi 1-g SAR (W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	CDD/MIMO(Ant 5(Core 0)+Ant 6(Core 1))
U-NII-1 band					
Front Side	10mm	802.11a	0.118	0.233	0.351
Back Side	10mm	802.11a	0.073	0.156	0.229
Left Side	10mm	802.11a	0.118	0.035	0.153
Right Side	10mm	802.11a	0.118	0.233	0.351
Top Side	10mm	802.11a	0.118	0.028	0.146
U-NII-3 band					
Front Side	10mm	802.11a	0.114	0.025	0.139
Back Side	10mm	802.11a	0.114	0.025	0.139
Left Side	10mm	802.11a	0.114	0.016	0.130
Right Side	10mm	802.11a	0.114	0.025	0.139
Top Side	10mm	802.11a	0.114	0.025	0.139

Table 193: Hotspot SAR test results of WiFi 5G CDD calculation

Limbs With 0mm	Dist.	Test Channel /Freq.(M Hz)	Test Mode	Area Scan 10-g SAR (W/kg)	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 10-g SAR (W/kg)	Conduct ed Power (dBm)	Tune-up Power (dBm)	Report ed 10-g SAR (W/kg)	Accessory Informatio n	SAR Plot.
					1-g	10-g								
An5(Core0)														
Test data of U-NII-2A band														
Front Side	0mm	56/5280	802.11a	0.275	0.963	0.289	-0.19	99%	0.292	16.89	17.00	0.299	Battery 1#	/
Back Side	0mm	56/5280	802.11a	0.201	0.632	0.209	0.11	99%	0.211	16.89	17.00	0.217	Battery 1#	/
Left Side	0mm	56/5280	802.11a	0.016	/	/	-0.06	99%	/	16.89	17.00	/	Battery 1#	/
Right Side	0mm	56/5280	802.11a	0.050	/	/	0.18	99%	/	16.89	17.00	/	Battery 1#	/
Top Side	0mm	56/5280	802.11a	0.732	3.830	0.897	-0.09	99%	0.906	16.89	17.00	0.929	Battery 1#	/
Top Side	0mm	56/5280	802.11a	0.770	3.970	0.928	-0.16	99%	0.937	16.89	17.00	0.961	Battery 2#	/
Top Side	0mm	52/5260	802.11a	0.727	3.950	0.922	-0.03	99%	0.931	16.74	17.00	0.989	Battery 2#	/
Top Side	0mm	60/5300	802.11a	0.705	3.890	0.924	-0.10	99%	0.933	16.88	17.00	0.959	Battery 2#	/
Test data of U-NII-2C band														
Front Side	0mm	116/5580	802.11a	0.509	2.450	0.604	0.07	99%	0.610	16.89	17.00	0.626	Battery 1#	/
Back Side	0mm	116/5580	802.11a	0.404	1.560	0.448	-0.03	99%	0.453	16.89	17.00	0.464	Battery 1#	/
Left Side	0mm	116/5580	802.11a	0.049	/	/	-0.12	99%	/	16.89	17.00	/	Battery 1#	/
Right Side	0mm	116/5580	802.11a	0.213	/	/	-0.19	99%	/	16.89	17.00	/	Battery 1#	/
Top Side	0mm	116/5580	802.11a	1.050	6.360	1.450	-0.13	99%	1.465	16.89	17.00	1.502	Battery 1#	/
Top Side	0mm	116/5580	802.11a	1.100	6.130	1.430	0.09	99%	1.444	16.89	17.00	1.481	Battery 1#	/
Top Side	0mm	104/5520	802.11a	0.831	4.600	1.080	0.13	99%	1.091	16.58	17.00	1.202	Battery 1#	/
Top Side	0mm	136/5680	802.11a	1.040	6.640	1.450	0.17	99%	1.465	16.88	17.00	1.506	Battery 1#	Yes
Top Side	0mm	136/5680	802.11a	0.692	3.030	0.817	-0.13	99%	0.825	16.88	17.00	0.848	With Wireless Charging Cover	/
Ant6(Core1)														
Test data of U-NII-2A band														
Front Side	0mm	56/5280	802.11a	0.113	/	/	-0.12	99%	/	16.32	16.50	/	Battery 1#	/
Back Side	0mm	56/5280	802.11a	0.399	1.940	0.431	-0.12	99%	0.435	16.32	16.50	0.454	Battery 1#	/
Left Side	0mm	56/5280	802.11a	0.113	/	/	0.05	99%	/	16.32	16.50	/	Battery 1#	/
Right Side	0mm	56/5280	802.11a	0.003	/	/	0.08	99%	/	16.32	16.50	/	Battery 1#	/
Top Side	0mm	56/5280	802.11a	0.046	0.152	0.042	0.06	99%	0.042	16.32	16.50	0.044	Battery 1#	/
Back Side	0mm	56/5280	802.11a	0.419	2.430	0.529	0.19	99%	0.534	16.32	16.50	0.557	Battery 2#	Yes
Back Side	0mm	52/5260	802.11a	0.311	2.110	0.467	0.01	99%	0.472	16.31	16.50	0.493	Battery 1#	/
Back Side	0mm	60/5300	802.11a	0.357	2.260	0.486	0.02	99%	0.491	16.30	16.50	0.514	Battery 1#	/
Test data of U-NII-2C band														
Front Side	0mm	116/5580	802.11a	0.041	0.124	0.124	0.02	99%	0.125	16.32	16.50	0.131	Battery 1#	/
Back Side	0mm	116/5580	802.11a	0.279	1.310	0.303	-0.12	99%	0.306	16.32	16.50	0.319	Battery 1#	/
Left Side	0mm	116/5580	802.11a	0.040	/	/	0.14	99%	/	16.32	16.50	/	Battery 1#	/
Right Side	0mm	116/5580	802.11a	0.003	/	/	-0.10	99%	/	16.32	16.50	/	Battery 1#	/

Top Side	0mm	116/558 0	802.11a	0.033	0.134	0.032	0.16	99%	0.033	16.32	16.50	0.034	Battery 1#	/
Back Side	0mm	116/558 0	802.11a	0.286	1.310	0.309	0.02	99%	0.312	16.32	16.50	0.325	Battery 2#	/
Back Side	0mm	104/552 0	802.11a	0.350	1.520	0.366	-0.14	99%	0.370	16.31	16.50	0.386	Battery 2#	/
Back Side	0mm	136/568 0	802.11a	0.504	2.220	0.512	-0.06	99%	0.517	16.31	16.50	0.540	Battery 2#	/
Back Side	0mm	56/5280	802.11a	0.152	0.816	0.191	0.10	99%	0.193	16.32	16.50	0.201	With Wireless Charging Cover	/

Table 194: Product Specific 10-g SAR test results of WiFi 5G SISO

Note:

1) Per KDB248227D01, for Product Specific 10-g SAR test of WiFi 5G, SAR is measured for 5GHz 802.11a using the initial test position procedure. The highest reported SAR for 802.11a is adjusted by the ratio of other WiFi 5G modes to 802.11a specified maximum output power and the adjusted SAR is < 75% limit, so SAR for other WiFi 5G modes are not required.

2) Per KDB 248227D01v02, simultaneous transmission provisions in KDB Publication 447498 should be used to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1-g SAR single transmission SAR measurement is < 1.6W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation

Product Specific 10-g SAR	Dist.	Test Mode	WiFi 10-g SAR (W/kg)		
			Ant 5(Core 0)	Ant 6(Core 1)	CDD/MIMO(Ant 5(Core 0) +Ant 6(Core 1))
CDD/MIMO					
Test data of U-NII-2A band					
Front Side	0mm	802.11a	0.299	0.557	0.856
Back Side	0mm	802.11a	0.217	0.557	0.774
Left Side	0mm	802.11a	0.989	0.557	1.546
Right Side	0mm	802.11a	0.989	0.557	1.546
Top Side	0mm	802.11a	0.989	0.044	1.033
Test data of U-NII-2C band					
Front Side	0mm	802.11a	0.626	0.131	0.757
Back Side	0mm	802.11a	0.464	0.54	1.004
Left Side	0mm	802.11a	1.506	0.54	<b>2.046</b>
Right Side	0mm	802.11a	1.506	0.54	<b>2.046</b>
Top Side	0mm	802.11a	1.506	0.034	1.540

Table 195: Product Specific 10-g SAR of WiFi 5G CDD calculation

### 7.2.17 SAR measurement Results of BT

Test Position of Head	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
			1-g	10-g								
Test data for power level B												
Left cheek	39/2441	DH5	0.112	0.050	0.11	77%	0.145	9.45	11.00	0.208	Battery 1#	/
Left tilt	39/2441	DH5	0.075	0.029	-0.08	77%	0.097	9.45	11.00	0.139	Battery 1#	/
Right cheek	39/2441	DH5	0.010	0.003	-0.09	77%	0.013	9.45	11.00	0.018	Battery 1#	/
Right tilt	39/2441	DH5	0.037	0.018	-0.18	77%	0.049	9.45	11.00	0.069	Battery 1#	/
Left cheek	39/2441	DH5	0.075	0.035	0.02	77%	0.097	9.45	11.00	0.138	Battery 2#	/
Left cheek	11/2413	DH5	0.117	0.050	0.00	77%	0.152	9.08	11.00	0.236	Battery 1#	/
Left cheek	67/2469	DH5	0.200	0.084	0.08	77%	0.260	9.29	11.00	0.385	Battery 1#	Yes
Left cheek	67/2469	DH5	0.185	0.081	-0.13	77%	0.240	9.29	11.00	0.356	With Wireless Charging Cover	/

Table 196: Head SAR test results of BT

Test Position of Body-Worn	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data for power level B													
Front Side	15mm	39/2441	DH5	0.003	0.002	-0.12	77%	0.004	9.45	11.00	0.006	Battery 1#	/
Back Side	15mm	39/2441	DH5	0.003	0.001	-0.03	77%	0.004	9.45	11.00	0.006	Battery 1#	/
Front Side	15mm	39/2441	DH5	0.003	0.003	-0.09	77%	0.004	9.45	11.00	0.006	Battery 2#	/
Front Side	15mm	11/2413	DH5	0.004	0.003	-0.02	77%	0.005	9.08	11.00	0.008	Battery 2#	/
Front Side	15mm	67/2469	DH5	0.011	0.007	-0.13	77%	0.015	9.29	11.00	0.022	Battery 2#	/
Test data for power level A													
Front Side	15mm	22/2424	DH5	0.058	0.035	-0.14	77%	0.075	15.68	17.01	0.102	Battery 1#	/
Back Side	15mm	22/2424	DH5	0.058	0.036	-0.09	77%	0.075	15.68	17.01	0.102	Battery 1#	Yes
Back Side	15mm	22/2424	DH5	0.044	0.028	-0.17	77%	0.058	15.68	17.01	0.078	Battery 2#	/
Back Side	15mm	11/2413	DH5	0.033	0.020	0.04	77%	0.042	16.02	17.01	0.053	Battery 1#	/
Back Side	15mm	32/2434	DH5	0.038	0.024	-0.11	77%	0.050	15.18	17.01	0.076	Battery 1#	/
Back Side	15mm	22/2424	DH5	0.040	0.023	0.14	77%	0.052	15.68	17.01	0.070	With Wireless Charging Cover	/

Table 197: Body Worn SAR test results of BT

Test Position of Hotspot	Dist.	Test Channel /Freq.(MHz)	Test Mode	Measured SAR(W/kg)		Power Drift (dB)	Actual duty cycle	Scaled 1-g SAR (W/kg)	Conducted Power (dBm)	Tune-up Power (dBm)	Reported 1-g SAR (W/kg)	Accessory Information	SAR Plot.
				1-g	10-g								
Test data for power level B													
Front Side	10mm	39/2441	DH5	0.015	0.009	-0.16	77%	0.020	9.45	11.00	0.029	Battery 1#	/
Back Side	10mm	39/2441	DH5	0.019	0.011	-0.12	77%	0.024	9.45	11.00	0.035	Battery 1#	/
Right Side	10mm	39/2441	DH5	0.015	0.006	-0.19	77%	0.019	9.45	11.00	0.027	Battery 1#	/
Top Side	10mm	39/2441	DH5	0.027	0.015	-0.12	77%	0.035	9.45	11.00	0.050	Battery 1#	/
Top Side	10mm	39/2441	DH5	0.028	0.015	-0.13	77%	0.036	9.45	11.00	0.051	Battery 2#	/
Top Side	10mm	11/2413	DH5	0.025	0.014	-0.11	77%	0.032	9.08	11.00	0.050	Battery 2#	/
Top Side	10mm	67/2469	DH5	0.027	0.015	-0.18	77%	0.034	9.29	11.00	0.051	Battery 2#	/
Test data for power level A													
Front Side	10mm	22/2424	DH5	0.099	0.059	-0.10	77%	0.129	15.68	17.01	0.175	Battery 1#	/
Back Side	10mm	22/2424	DH5	0.123	0.071	-0.16	77%	0.160	15.68	17.01	0.217	Battery 1#	/
Right Side	10mm	22/2424	DH5	0.097	0.041	0.09	77%	0.125	15.68	17.01	0.170	Battery 1#	/
Top Side	10mm	22/2424	DH5	0.257	0.141	-0.11	77%	0.334	15.68	17.01	0.453	Battery 1#	Yes
Top Side	10mm	22/2424	DH5	0.195	0.106	-0.12	77%	0.253	15.68	17.01	0.344	Battery 2#	/
Top Side	10mm	11/2413	DH5	0.167	0.090	0.06	77%	0.217	16.02	17.01	0.272	Battery 1#	/
Top Side	10mm	32/2434	DH5	0.204	0.109	0.17	77%	0.265	15.18	17.01	0.404	Battery 1#	/
Top Side	10mm	11/2413	DH5	0.073	0.039	-0.13	77%	0.095	16.02	17.01	0.119	With Wireless Charging Cover	/

Table 198: Hotspot SAR test results of BT

Per KDB648474 D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Note: According to the table above, Product Specific 10-g SAR test is not required for this frequency band.

### 7.3 Multiple Transmitter Evaluation

The detailed location of the Tx antennas inside the device refers to Appendix E.

The list information of following tables which is relevant for the decision if a simultaneous transmit evaluation is necessary according to FCC KDB 447498 D01 General RF Exposure Guidance.

Ant/Mode	Exposure Condition	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
MHB Main Ant (Ant 1)	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes
LB Main Ant (Ant 2)	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Up MHB Ant (Ant 3)	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Up LB Ant (Ant 4)	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No
WiFi 2.4G/5G Core 0/BT Ant (Ant 5)	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
WiFi 2.4G/5G Core 1 ant (Ant 6)	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
WiFi 2.4G/5G CDD/MIMO	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No

Table 199: Sides for Hotspot testing

Note:

- 1) Per KDB 648474 D04, because the diagonal distance of this device is  $\geq 160\text{mm}$ , so it is a phablet .
- 2) Per KDB 941225 D06 and KDB 648474 D04, particular DUT edges were not required to be evaluated for Hotspot SAR if the antenna-to-edge distance is greater than 2.5cm;
- 3) WiFi 2.4G CDD/MIMO does not support hotspot function, therefore WiFi 2.4G CDD/MIMO were not evaluated for hotspot SAR.

### 7.3.1 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	GSM Voice(Ant 1or 2) + BT	Yes	Yes	N/A	Yes
2	GSM DATA(Ant 1or 2) + BT	N/A	Yes	Yes	Yes
3	GSM Voice(Ant 3or 4) + BT	Yes	Yes	N/A	Yes
4	GSM DATA (Ant 3or 4)+ BT	N/A	Yes	Yes	Yes
5	GSM Voice(Ant 1or 2) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi- Fi 2.4G CDD/MIMO	Yes	Yes	N/A	Yes
6	GSM DATA(Ant 1or2) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	N/A	Yes	Yes	Yes
7	GSM Voice(Ant 3or4) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	Yes	Yes	N/A	Yes
8	GSM DATA (Ant 3or 4)+ Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	N/A	Yes	Yes	Yes
9	UMTS (Ant 1 or 2) + BT	Yes	Yes	Yes	Yes
10	UMTS (Ant 3 or 4) + BT	Yes	Yes	Yes	Yes
11	UMTS (Ant 1 or 2) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	Yes	Yes	Yes	Yes
12	UMTS (Ant 3or4) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	Yes	Yes	Yes	Yes
13	LTE (Ant 1or2) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	Yes	Yes	Yes	Yes
14	LTE(Ant 1or2) + BT	Yes	Yes	Yes	Yes
15	LTE (Ant 3or4) + Wi-Fi 2.4G (Ant 5)/ Wi-Fi 2.4G (Ant 6)/ Wi-Fi 2.4G CDD/MIMO	Yes	Yes	Yes	Yes
16	LTE (Ant 3or4) + BT	Yes	Yes	Yes	Yes
17	GSM Voice(Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	Yes	Yes	N/A	Yes
18	GSM DATA(Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
19	GSM Voice(Ant 3or4) + BT+ Wi-Fi 2.4G (Ant 6)	Yes	Yes	N/A	Yes
20	GSM DATA (Ant 3or4)+ BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
21	UMTS (Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	Yes	Yes	Yes	Yes
22	UMTS (Ant 3or4) + BT+ Wi-Fi 2.4G (Ant 6)	Yes	Yes	Yes	Yes
23	LTE (Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	Yes	Yes	Yes	Yes
24	LTE (Ant 3or4) + BT+ Wi-Fi 2.4G (Ant 6)	Yes	Yes	Yes	Yes
25	GSM Voice(Ant 1or 2) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	Yes	Yes	N/A	Yes
26	GSM DATA(Ant 1 or 2) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi- Fi 5G CDD/MIMO	N/A	Yes	Yes	Yes
27	GSM Voice(Ant 3 or 4) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	Yes	Yes	N/A	Yes
28	GSM DATA(Ant 3 or 4) + Wi-Fi 5G (Ant 5(Core 0))/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	N/A	Yes	Yes	Yes
29	UMTS (Ant 1 or 2) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	Yes	Yes	Yes	Yes
30	UMTS (Ant 3 or 4) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	Yes	Yes	Yes	Yes
31	LTE (Ant 1 or 2) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	Yes	Yes	Yes	Yes

32	LTE (Ant 3 or 4) + Wi-Fi 5G (Ant 5)/ Wi-Fi 5G (Ant 6)/ Wi-Fi 5G CDD/MIMO	Yes	Yes	Yes	Yes
33	GSM Voice(Ant 1or2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	Yes	Yes	N/A	Yes
34	GSM DATA(Ant 1 or 2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	N/A	Yes	Yes	Yes
35	GSM Voice(Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	Yes	Yes	N/A	Yes
36	GSM DATA(Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	N/A	Yes	Yes	Yes
37	UMTS (Ant 1or2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	Yes	Yes	Yes	Yes
38	UMTS (Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	Yes	Yes	Yes	Yes
39	LTE (Ant 1or2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	Yes	Yes	Yes	Yes
40	LTE (Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)	Yes	Yes	Yes	Yes
41	GSM Voice(Ant 1or2) + BT+ Wi-Fi 5G (Ant 5/Ant 6/ CDD/MIMO)	Yes	Yes	N/A	Yes
42	GSM DATA(Ant 1or2) + BT+ Wi-Fi 5G (Ant 5/Ant 6/ CDD/MIMO)	N/A	Yes	Yes	Yes
43	GSM Voice(Ant 3or4) + BT+ Wi-Fi 5G (Ant 5/Ant 6/ CDD/MIMO)	Yes	Yes	N/A	Yes
44	GSM DATA (Ant 3or4)+ BT+ Wi-Fi 5G (Ant 5/Ant 6/CDD/MIMO)	N/A	Yes	Yes	Yes
45	UMTS (Ant 1or2) + BT+ Wi-Fi 5G (Ant 5/Ant 6/ CDD/MIMO)	Yes	Yes	Yes	Yes
46	UMTS (Ant 3or4) + BT+ Wi-Fi 5G (Ant 5/Ant 6/CDD/MIMO)	Yes	Yes	Yes	Yes
47	LTE (Ant 1or2) + BT+ Wi-Fi 5G (Ant 5/ Ant 6/ CDD/MIMO)	Yes	Yes	Yes	Yes
48	LTE (Ant 3or4) + BT+ Wi-Fi 5G (Ant 5/ Ant 6/ CDD/MIMO)	Yes	Yes	Yes	Yes
49	GSM DATA(Ant 1or2)+Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+ BT	Yes	Yes	N/A	Yes
50	GSM DATA(Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+BT	N/A	Yes	Yes	Yes
51	GSM Voice ((Ant 1or2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+ BT	Yes	Yes	N/A	Yes
52	GSM Voice (Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+BT	N/A	Yes	Yes	Yes
53	UMTS (Ant 1or2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+BT	Yes	Yes	Yes	Yes
54	UMTS (Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+BT	Yes	Yes	Yes	Yes
55	LTE (Ant 1or2) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+BT	Yes	Yes	Yes	Yes
56	LTE (Ant 3or4) + Wi-Fi 2.4G (Ant 6) + Wi-Fi 5G (Ant 5)+BT	Yes	Yes	Yes	Yes

Table 200: Simultaneous Transmission Possibilities with BT Power Level B

Note:

- 1) Wi-Fi 2.4G Ant6(Core1) can transmit simultaneously with Bluetooth.
- 2) Wi-Fi 5G Ant5(Core0) can transmit simultaneously with Bluetooth and Ant6(Core1) also can transmit simultaneously with Bluetooth.
- 3) Wi-Fi 2.4G has two TX antennas. Wi-Fi 2.4G 802.11g/n support 2\*2 CDD/MIMO function.
- 4) Wi-Fi 5G has two TX antennas. Wi-Fi 5G 802.11 a/n/ac support 2\*2 CDD/MIMO function.
- 5) Wi-Fi 2.4G& Wi-Fi 5G can't work at same mode, but they can transmit simultaneously at different modes (Wi-Fi station/P-to-P) by using different Wi-Fi antennas. Only Wi-Fi 2.4G Ant6(Core1) station mode and Wi-Fi 5G Ant5(Core0) P-to-P mode or Wi-Fi 2.4G Ant6(Core1) P-to-P mode and Wi-Fi 5G Ant5(Core0) station mode can transmit simultaneously.
- 6) The device does not support DTM function.
- 7) \* VoLTE or pre-installed VOIP applications are considered.
- 8) The Main Antenna (Ant1&2) and Second Antenna (Ant 3&4) can't transmit simultaneously.
- 9) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 10) The device supports Vo-WIFI function.
- 11) WiFi 2.4G hotspot does not support CDD/MIMO mode.
- 12) Ant 5=WiFi Core 0/ BT; Ant 6 = WiFi Core 1.

The simultaneous transmission possibilities for BT at lower power level B and high power level A are different. The simultaneous transmission possibilities for BT high power level A is as below table:

NO.	Simultaneous TX Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	GSM Voice(Ant 1or 2) + BT	N/A	Yes	N/A	Yes
2	GSM DATA(Ant 1or 2) + BT	N/A	Yes	Yes	Yes
3	GSM Voice(Ant 3or 4) + BT	N/A	Yes	N/A	Yes
4	GSM DATA (Ant 3or 4)+ BT	N/A	Yes	Yes	Yes
5	UMTS (Ant 1 or 2) + BT	N/A	Yes	Yes	Yes
6	UMTS (Ant 1or 2) + BT	N/A	Yes	Yes	Yes
7	LTE(Ant 1or2) + BT	N/A	Yes	Yes	Yes
8	LTE (Ant 3or4) + BT	N/A	Yes	Yes	Yes
9	GSM Voice(Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	N/A	Yes
10	GSM DATA(Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
11	GSM Voice(Ant 3or4) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	N/A	Yes
12	GSM DATA (Ant 3or4)+ BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
13	UMTS (Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
14	UMTS (Ant 3or4) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
15	LTE (Ant 1or2) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
16	LTE (Ant 3or4) + BT+ Wi-Fi 2.4G (Ant 6)	N/A	Yes	Yes	Yes
17	GSM Voice(Ant 1or2) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	N/A	Yes
18	GSM DATA(Ant 1or2) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	Yes	Yes
19	GSM Voice(Ant 3or4) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	N/A	Yes
20	GSM DATA (Ant 3or4)+ BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	Yes	Yes
21	UMTS (Ant 1or2) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	Yes	Yes
22	UMTS (Ant 3or4) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	Yes	Yes

23	LTE (Ant 1or2) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	Yes	Yes
24	LTE (Ant 3or4) + BT+ Wi-Fi 5G (Ant 6)	N/A	Yes	Yes	Yes

Table 201: Simultaneous Transmission Possibilities with BT Power Level A

- 1) When BT is in high power level A, BT and Wi-Fi 5G Ant 5(Core 0)/WIFI 5G CDD/MIMO cannot transmit simultaneously because BT occupies Wifi 5G Ant 5(Core 0) 's RF channel. They are time division multiplexing.
- 2) When WiFi 2.4G and 5G are both on at the same time, BT can only work at power B. BT High Power A will be limited by design.
- 3) Ant5=WiFi Core 0/BT; Ant6=WiFi Core 1.

### 7.3.2 SAR Summation Scenario

Test Position		Second antenna SAR														Second antenna MaxSAR
		GSM850	GSM1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 26	LTE Band 38	LTE Band 41	LTE Band 66	
Head	Left cheek	0.648	0.392	0.187	0.262	0.331	0.247	0.362	0.321	0.482	0.394	0.477	0.360	0.408	0.274	0.648
	Left tilt	0.344	0.496	0.253	0.391	0.247	0.304	0.380	0.271	0.502	0.317	0.338	0.284	0.313	0.355	0.502
	Right cheek	0.412	0.527	0.303	0.463	0.496	0.382	0.379	0.557	0.898	0.543	0.442	0.762	0.579	0.425	0.898
	Right tilt	0.433	0.633	0.387	0.580	0.535	0.583	0.571	0.411	0.742	0.393	0.375	0.463	0.475	0.626	0.742
Body Worn	Front side	0.145	0.070	0.093	0.086	0.251	0.077	0.085	0.282	0.230	0.228	0.256	0.073	0.071	0.108	0.282
	Back side	0.228	0.110	0.130	0.123	0.274	0.152	0.163	0.260	0.391	0.224	0.274	0.247	0.233	0.210	0.391
Hotspot	Front side	0.191	0.101	0.061	0.062	0.191	0.058	0.099	0.169	0.114	0.209	0.207	0.054	0.049	0.107	0.209
	Back side	0.307	0.138	0.086	0.084	0.249	0.083	0.099	0.207	0.235	0.243	0.260	0.194	0.212	0.148	0.307
	Left side	0.081	0.044	0.026	0.025	0.102	0.034	0.098	0.076	0.063	0.063	0.089	0.052	0.043	0.033	0.102
	Right side	0.012	/	/	/	0.018	/	/	0.011	/	0.024	0.014	/	/	/	0.024
	Top side	0.135	0.261	0.186	0.215	0.169	0.177	0.230	0.086	0.153	0.144	0.120	0.099	0.079	0.254	0.261
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Product Specific 10-g	Front side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Back side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 202: Second antenna Max SAR

Test Position		Main antenna SAR														Main antenna MaxSAR
		GSM850	GSM1900	UMTS Band II	UMTS Band IV	UMTS Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 26	LTE Band 38	LTE Band 41	LTE Band 66	
Head	Left cheek	0.104	0.068	0.142	0.269	0.102	0.186	0.230	0.100	0.134	0.135	0.093	0.029	0.042	0.191	0.269
	Left tilt	0.050	0.044	0.093	0.114	0.058	0.113	0.112	0.053	0.088	0.066	0.059	0.026	0.029	0.122	0.122
	Right cheek	0.086	0.075	0.246	0.144	0.145	0.206	0.152	0.202	0.248	0.093	0.162	0.149	0.087	0.163	0.248
	Right tilt	0.039	0.036	0.082	0.133	0.051	0.101	0.109	0.053	0.043	0.047	0.051	0.015	0.016	0.107	0.133
Body Worn	Front side	0.173	0.115	0.245	0.298	0.269	0.323	0.225	0.288	0.145	0.205	0.319	0.072	0.056	0.299	0.323
	Back side	0.321	0.170	0.391	0.452	0.367	0.457	0.331	0.498	0.413	0.327	0.447	0.183	0.224	0.393	0.498
Hotspot	Front side	0.380	0.222	0.244	0.366	0.336	0.315	0.320	0.350	0.140	0.322	0.295	0.110	0.109	0.412	0.412
	Back side	0.683	0.321	0.331	0.403	0.538	0.358	0.461	0.535	0.257	0.501	0.583	0.265	0.288	0.487	0.683
	Left side	0.367	/	/	/	0.317	/	/	0.215	/	0.476	0.271	/	/	/	0.476
	Right side	/	0.127	0.176	0.096	/	0.258	0.220	/	0.093	/	/	0.051	0.048	0.263	0.263
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom side	0.349	0.425	0.524	0.622	0.350	0.438	0.594	0.271	0.407	0.172	0.287	0.455	0.539	0.603	0.622
Product Specific 10-g	Front side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Back side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 203: Main antenna Max SAR

Test Position		Second antenna MaxSAR	WiFi 2.4G Ant 5 (Core 0)	WiFi 2.4G Ant 6 (Core 1)	WiFi 2.4G MIMO	WiFi 5G Ant 5 (Core 0)	WiFi 5G Ant 6 (Core 1)	WiFi 5G MIMO	BT Power Level B	Simultaneous Transmission SAR						
		1	2	3	4	5	6	7	8	1+8	1+max (2/3/4)	1+3+8	1+max (5/6/7)+8	1+3+5	1+max (5/6/7)+8	1+3+5+8
Head	Left cheek	0.648	0.232	0.024	0.253	0.421	0.031	0.435	0.385	1.033	0.901	1.057	1.083	1.093	1.468	<b>1.478</b>
	Left tilt	0.502	0.320	0.024	0.322	0.627	0.014	0.633	0.139	0.641	0.824	0.665	1.135	1.153	1.274	1.292
	Right cheek	0.898	0.320	0.024	0.322	0.421	0.031	0.489	0.018	0.916	1.220	0.940	1.387	1.343	1.405	1.361
	Right tilt	0.742	0.320	0.024	0.160	0.287	0.031	0.300	0.069	0.811	1.062	0.835	1.042	1.053	1.111	1.122
Body Worn	Front side	0.282	0.114	0.097	0.177	0.150	0.082	0.124	0.022	0.304	0.459	0.401	0.432	0.529	0.454	0.551
	Back side	0.391	0.114	0.097	0.177	0.219	0.082	0.262	0.006	0.397	0.568	0.494	0.653	0.707	0.659	<b>0.713</b>
Hotspot	Front side	0.209	0.285	0.195	/	0.118	0.233	0.351	0.029	0.238	0.494	0.433	0.560	0.522	0.589	0.551
	Back side	0.307	0.146	0.195	/	0.114	0.233	0.229	0.035	0.342	0.502	0.537	0.540	0.616	0.575	<b>0.651</b>
	Left side	0.102	0.285	0.195	/	0.118	0.035	0.153	/	0.102	0.387	0.297	0.255	0.415	0.255	0.415
	Right side	0.024	0.285	0.195	/	0.118	0.233	0.351	0.027	0.051	0.309	0.246	0.375	0.337	0.402	0.364
	Top side	0.261	0.285	0.195	/	0.118	0.077	0.146	0.051	0.312	0.546	0.507	0.407	0.574	0.458	0.625
	Bottom side	/	0.285	0.195	/	0.118	0.233	/	/	/	0.285	0.195	0.233	0.313	0.233	0.313
Product Specific 10-g	Front side	/	0.727	0.042	0.769	0.626	0.557	0.856	/	/	0.769	0.042	0.856	0.668	0.856	0.668
	Back side	/	0.485	0.728	1.213	0.464	0.557	1.004	/	/	1.213	0.728	1.004	1.192	1.004	1.192
	Left side	/	0.044	0.218	0.262	1.506	0.557	2.046	/	/	0.262	0.218	2.046	1.724	2.046	1.724
	Right side	/	0.237	0.728	0.965	1.506	0.557	2.046	/	/	0.965	0.728	2.046	<b>2.234</b>	2.046	<b>2.234</b>
	Top side	/	1.264	0.054	1.318	1.506	0.044	1.540	/	/	1.318	0.054	1.540	1.560	1.540	1.560
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 204: SAR Simultaneous Tx Combination of Second antenna with WiFi/BT Scenario (BT: Power level B)

Test Position		Main antenna MaxSAR	WiFi 2.4G Ant 5 (Core 0)	WiFi 2.4G Ant 6 (Core 1)	WiFi 2.4G MIMO	WiFi 5G Ant 5 (Core 0)	WiFi 5G Ant 6 (Core 1)	WiFi 5G MIMO	BT Power Level B	Simultaneous Transmission SAR						
		1	2	3	4	5	6	7	8	1+8	1+max (2/3/4)	1+3+8	1+max (5/6/7)	1+3+5	1+max (5/6/7) +8	1+3+5 +8
Head	Left cheek	0.269	0.232	0.024	0.253	0.421	0.031	0.435	0.385	0.654	0.522	0.678	0.704	0.714	1.089	<b>1.099</b>
	Left tilt	0.122	0.320	0.024	0.322	0.627	0.014	0.633	0.139	0.261	0.444	0.285	0.755	0.773	0.894	0.912
	Right cheek	0.248	0.320	0.024	0.322	0.421	0.031	0.489	0.018	0.266	0.570	0.290	0.737	0.693	0.755	0.711
	Right tilt	0.133	0.320	0.024	0.160	0.287	0.031	0.300	0.069	0.202	0.453	0.226	0.433	0.444	0.502	0.513
Body Worn	Front side	0.323	0.114	0.097	0.177	0.150	0.082	0.124	0.022	0.345	0.500	0.442	0.473	0.570	0.495	0.592
	Back side	0.498	0.114	0.097	0.177	0.219	0.082	0.262	0.006	0.504	0.675	0.601	0.760	0.814	0.766	<b>0.820</b>
Hotspot	Front side	0.412	0.285	0.195	/	0.118	0.233	0.351	0.029	0.441	0.697	0.636	0.763	0.725	0.792	0.754
	Back side	0.683	0.146	0.195	/	0.114	0.233	0.229	0.035	0.718	0.878	0.913	0.916	0.992	0.951	<b>1.027</b>
	Left side	0.476	0.285	0.195	/	0.118	0.035	0.153	/	0.476	0.761	0.671	0.629	0.789	0.629	0.789
	Right side	0.263	0.285	0.195	/	0.118	0.233	0.351	0.027	0.290	0.548	0.485	0.614	0.576	0.641	0.603
	Top side	/	0.285	0.195	/	0.118	0.077	0.146	0.051	0.051	0.285	0.246	0.146	0.313	0.197	0.364
	Bottom side	0.622	0.285	0.195	/	0.118	0.233	/	/	0.622	0.907	0.817	0.855	0.935	0.855	0.935
Product Specific 10-g	Front side	/	0.727	0.042	0.769	0.626	0.557	0.856	/	/	0.769	0.042	0.856	0.668	0.856	0.668
	Back side	/	0.485	0.728	1.213	0.464	0.557	1.004	/	/	1.213	0.728	1.004	1.192	1.004	1.192
	Left side	/	0.044	0.218	0.262	1.506	0.557	2.046	/	/	0.262	0.218	2.046	1.724	2.046	1.724
	Right side	/	0.237	0.728	0.965	1.506	0.557	2.046	/	/	0.965	0.728	2.046	<b>2.234</b>	2.046	<b>2.234</b>
	Top side	/	1.264	0.054	1.318	1.506	0.044	1.540	/	/	1.318	0.054	1.540	1.560	1.540	1.560
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 205: SAR Simultaneous Tx Combination of Main antenna with WiFi/BT Scenario (BT: Power level B)

Test Position		Second Antenna MaxSAR	WiFi 2.4G Ant 5 (Core 0)	WiFi 2.4G Ant 6 (Core 1)	WiFi 2.4G MIMO	WiFi 5G Ant 5 (Core 0)	WiFi 5G Ant 6 (Core 1)	WiFi 5G MIMO	BT Power Level A	Simultaneous Transmission SAR				
		1	2	3	4	5	6	7	8	1+8	3+8	6+8	1+3+8	1+6+8
Body Worn	Front side	0.282	0.114	0.097	0.177	0.150	0.082	0.124	0.102	0.384	0.199	0.184	0.481	0.466
	Back side	0.391	0.114	0.097	0.177	0.219	0.082	0.262	0.102	0.493	0.199	0.184	0.590	0.575
Hotspot	Front side	0.209	0.285	0.195	/	0.118	0.233	0.351	0.175	0.384	0.370	0.408	0.579	0.617
	Back side	0.307	0.146	0.195	/	0.114	0.233	0.229	0.217	0.524	0.412	0.450	0.719	0.757
	Left side	0.102	0.285	0.195	/	0.118	0.035	0.153	/	0.102	0.195	0.035	0.297	0.137
	Right side	0.024	0.285	0.195	/	0.118	0.233	0.351	0.170	0.194	0.365	0.403	0.389	0.427
	Top side	0.261	0.285	0.195	/	0.118	0.077	0.146	0.453	0.714	0.648	0.530	<b>0.909</b>	0.791
	Bottom side	/	0.285	0.195	/	0.118	0.233	/	/	/	0.195	0.233	0.195	0.233
Product Specific 10-g	Front side	/	0.727	0.042	0.769	0.626	0.557	0.856	/	/	0.042	0.557	0.042	0.557
	Back side	/	0.485	0.728	1.213	0.464	0.557	1.004	/	/	0.728	0.557	<b>0.728</b>	0.557
	Left side	/	0.044	0.218	0.262	1.506	0.557	2.046	/	/	0.218	0.557	0.218	0.557
	Right side	/	0.237	0.728	0.965	1.506	0.557	2.046	/	/	0.728	0.557	<b>0.728</b>	0.557
	Top side	/	1.264	0.054	1.318	1.506	0.044	1.540	/	/	0.054	0.044	0.054	0.044
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 206: SAR Simultaneous Tx Combination of Second antenna with WiFi/BT Scenario (BT: Power level A)

Test Position		Main Antenna MaxSAR	WiFi 2.4G Ant 5 (Core 0)	WiFi 2.4G Ant 6 (Core 1)	WiFi 2.4G MIMO	WiFi 5G Ant 5 (Core 0)	WiFi 5G Ant 6 (Core 1)	WiFi 5G MIMO	BT Power Level A	Simultaneous Transmission SAR				
		1	2	3	4	5	6	7	8	1+8	3+8	6+8	1+3+8	1+6+8
Body Worn	Front side	0.323	0.114	0.097	0.177	0.150	0.082	0.124	0.102	0.425	0.199	0.184	0.522	0.507
	Back side	0.498	0.114	0.097	0.177	0.219	0.082	0.262	0.102	0.600	0.199	0.184	<b>0.697</b>	0.682
Hotspot	Front side	0.412	0.285	0.195	/	0.118	0.233	0.351	0.175	0.587	0.370	0.408	0.782	0.820
	Back side	0.683	0.146	0.195	/	0.114	0.233	0.229	0.217	0.900	0.412	0.450	1.095	<b>1.133</b>
	Left side	0.476	0.285	0.195	/	0.118	0.035	0.153	/	0.476	0.195	0.035	0.671	0.511
	Right side	0.263	0.285	0.195	/	0.118	0.233	0.351	0.170	0.433	0.365	0.403	0.628	0.666
	Top side	/	0.285	0.195	/	0.118	0.077	0.146	0.453	0.453	0.648	0.530	0.648	0.530
	Bottom side	0.622	0.285	0.195	/	0.118	0.233	/	/	0.622	0.195	0.233	0.817	0.855
Product Specific 10-g	Front side	/	0.727	0.042	0.769	0.626	0.557	0.856	/	/	0.042	0.557	0.042	0.557
	Back side	/	0.485	0.728	1.213	0.464	0.557	1.004	/	/	0.728	0.557	<b>0.728</b>	0.557
	Left side	/	0.044	0.218	0.262	1.506	0.557	2.046	/	/	0.218	0.557	0.218	0.557
	Right side	/	0.237	0.728	0.965	1.506	0.557	2.046	/	/	0.728	0.557	<b>0.728</b>	0.557
	Top side	/	1.264	0.054	1.318	1.506	0.044	1.540	/	/	0.054	0.044	0.054	0.044
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 207: SAR Simultaneous Tx Combination of Main antenna with WiFi/BT Scenario (BT: Power level A)

### 7.3.3 Simultaneous Transmission Conclusion

The above numeral summed SAR results is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore simultaneous transmission SAR with Volume Scans is not required per KDB 447498 D01.



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**Appendix A. System Check Plots**

(Please See Appendix No.: SYBH(Z-SAR)20190401017001-2A, total: 43 pages)

**Appendix B. SAR Measurement Plots**

(Please See Appendix No.: SYBH(Z-SAR)20190401017001-2B, total: 104 pages)

**Appendix C. Calibration Certificate**

(Please See Appendix No.: SYBH(Z-SAR)20190401017001-2C, total: 213 pages)

**Appendix D. Photo documentation**

(Please See Appendix No.: SYBH(Z-SAR)20190401017001-2D, total: 8 pages)

**Appendix E. Antenna Location**

(Please See Appendix No.: SYBH(Z-SAR)20190401017001-2E, total: 1 page)

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**End**