

Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11a CDD 20M (5GHz)	Ant3(Core0)	CH 36	5180	6Mbps	10.50	9.55	No
		CH 40	5200		16.00	15.12	No
		CH 44	5220		16.00	15.24	No
		CH 48	5240		16.00	15.38	No
		CH 52	5260		16.00	15.29	No
		CH 56	5280		16.00	15.40	No
		CH 60	5300		16.00	15.42	No
		CH 64	5320		10.50	10.43	No
		CH 100	5500		10.50	10.41	No
		CH 104	5520		16.00	15.44	No
		CH 108	5540		16.00	15.40	No
		CH 112	5560		16.00	15.51	No
		CH 116	5580		16.00	15.74	No
		CH 120	5600		16.00	15.80	No
		CH 124	5620		16.00	15.79	No
		CH 128	5640		16.00	15.78	No
		CH 132	5660		16.00	15.53	No
		CH 136	5680		16.00	15.05	No
		CH 140	5700		11.00	10.67	No
		CH 149	5745		16.00	15.24	No
		CH 153	5765		16.00	15.34	No
		CH 157	5785		16.00	15.51	No
		CH 161	5805		16.00	15.50	No
		CH 165	5825		15.00	14.58	No
	Ant4(Core1)	CH 36	5180		10.50	9.58	No
		CH 40	5200		15.50	14.87	No
		CH 44	5220		15.50	14.90	No
		CH 48	5240		15.50	14.98	No
		CH 52	5260		15.50	14.99	No
		CH 56	5280		15.50	14.79	No
		CH 60	5300		15.50	14.62	No
		CH 64	5320		10.50	9.56	No
		CH 100	5500		10.50	9.36	No
		CH 104	5520		15.50	14.45	No
		CH 108	5540		15.50	14.35	No
		CH 112	5560		15.50	14.32	No
		CH 116	5580		15.50	14.26	No
		CH 120	5600		15.50	14.30	No
		CH 124	5620		15.50	14.32	No
		CH 128	5640		15.50	14.26	No
		CH 132	5660		15.50	14.32	No
		CH 136	5680		15.50	14.18	No
		CH 140	5700		11.00	10.13	No
		CH 149	5745		15.50	14.58	No
		CH 153	5765		15.50	14.45	No
		CH 157	5785		15.50	14.67	No
		CH 161	5805		15.50	14.56	No
		CH 165	5825		15.00	13.53	No
Sum	CH 36	5180	13.50	12.58	No		
	CH 40	5200	18.80	18.01	No		
	CH 44	5220	18.80	18.08	No		
	CH 48	5240	18.80	18.19	No		

Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11n MIMO 20M (5GHz)	Ant3(Core0)	CH 52	5260	MCS0	18.80	18.15	No
		CH 56	5280		18.80	18.12	No
		CH 60	5300		18.80	18.05	No
		CH 64	5320		13.50	13.03	No
		CH 100	5500		13.50	12.93	No
		CH 104	5520		18.80	17.98	No
		CH 108	5540		18.80	17.92	No
		CH 112	5560		18.80	17.97	No
		CH 116	5580		18.80	18.07	No
		CH 120	5600		18.80	18.12	No
		CH 124	5620		18.80	18.13	No
		CH 128	5640		18.80	18.10	No
		CH 132	5660		18.80	17.98	No
		CH 136	5680		18.80	17.65	No
		CH 140	5700		14.00	13.42	No
		CH 149	5745		18.80	17.93	No
		CH 153	5765		18.80	17.93	No
		CH 157	5785		18.80	18.12	No
	CH 161	5805	18.80		18.07	No	
	CH 165	5825	18.00		17.10	No	
	Ant4(Core1)	CH 36	5180		10.50	9.55	No
		CH 40	5200		16.00	14.63	No
		CH 44	5220		16.00	14.71	No
		CH 48	5240		16.00	14.83	No
		CH 52	5260		16.00	14.89	No
		CH 56	5280		16.00	14.92	No
		CH 60	5300		16.00	14.96	No
		CH 64	5320		10.50	10.24	No
		CH 100	5500		10.50	10.46	No
		CH 104	5520		16.00	14.92	No
		CH 108	5540		16.00	15.02	No
		CH 112	5560		16.00	15.06	No
		CH 116	5580		16.00	15.26	No
CH 120		5600	16.00	15.22	No		
CH 124		5620	16.00	15.28	No		
CH 128	5640	16.00	15.36	No			
CH 132	5660	16.00	15.18	No			
CH 136	5680	16.00	14.80	No			
CH 140	5700	11.00	10.44	No			
CH 149	5745	16.00	14.82	No			
CH 153	5765	16.00	14.78	No			
CH 157	5785	16.00	15.03	No			
CH 161	5805	16.00	14.99	No			
CH 165	5825	15.00	14.40	No			
CH 36	5180	10.50	9.42	No			
CH 40	5200	15.50	14.45	No			
CH 44	5220	15.50	14.48	No			
CH 48	5240	15.50	14.46	No			
CH 52	5260	15.50	14.46	No			
CH 56	5280	15.50	14.37	No			
CH 60	5300	15.50	14.17	No			
CH 64	5320	10.50	9.06	No			
CH 100	5500	10.50	9.33	No			
CH 104	5520	15.50	13.91	No			

		CH 108	5540		15.50	13.82	No	
		CH 112	5560		15.50	13.82	No	
		CH 116	5580		15.50	13.85	No	
		CH 120	5600		15.50	13.60	No	
		CH 124	5620		15.50	13.79	No	
		CH 128	5640		15.50	13.83	No	
		CH 132	5660		15.50	13.82	No	
		CH 136	5680		15.50	13.62	No	
		CH 140	5700		11.00	9.98	No	
		CH 149	5745		15.50	14.03	No	
		CH 153	5765		15.50	14.02	No	
		CH 157	5785		15.50	14.01	No	
		CH 161	5805		15.50	13.92	No	
		CH 165	5825		15.00	13.42	No	
	Sum	CH 36	5180		13.50	12.50	No	
		CH 40	5200		18.80	17.55	No	
		CH 44	5220		18.80	17.61	No	
		CH 48	5240		18.80	17.66	No	
		CH 52	5260		18.80	17.69	No	
		CH 56	5280		18.80	17.66	No	
		CH 60	5300		18.80	17.59	No	
		CH 64	5320		13.50	12.70	No	
		CH 100	5500		13.50	12.94	No	
		CH 104	5520		18.80	17.45	No	
		CH 108	5540		18.80	17.47	No	
		CH 112	5560		18.80	17.49	No	
		CH 116	5580		18.80	17.62	No	
		CH 120	5600		18.80	17.50	No	
		CH 124	5620		18.80	17.61	No	
		CH 128	5640		18.80	17.67	No	
		CH 132	5660		18.80	17.56	No	
		CH 136	5680		18.80	17.26	No	
		CH 140	5700		14.00	13.23	No	
		CH 149	5745		18.80	17.45	No	
		CH 153	5765		18.80	17.43	No	
		CH 157	5785		18.80	17.56	No	
		CH 161	5805		18.80	17.50	No	
		CH 165	5825		18.00	16.95	No	
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)	
802.11n MIMO 40M (5GHz)	Ant3(Core0)	CH 38	5190	MCS0	9.50	8.15	No	
		CH 46	5230		15.50	13.05	No	
		CH 54	5270		15.50	13.06	No	
		CH 62	5310		9.00	8.20	No	
		CH 102	5510		9.50	9.16	No	
		CH 110	5550		15.50	13.67	No	
		CH 118	5590		15.50	13.94	No	
		CH 126	5630		15.50	14.00	No	
		CH 134	5670		9.50	8.83	No	
		CH 151	5755		15.50	13.51	No	
		CH 159	5795		14.50	12.86	No	
		Ant4(Core1)	CH 38		5190	9.50	8.79	No
	CH 46		5230		15.00	14.18	No	
	CH 54		5270		15.00	14.03	No	
	CH 62		5310		9.00	8.55	No	
	CH 102		5510		9.50	8.95	No	

Mode	Antenna	Channel	Frequency(MHz)	Data Rate (Mbps)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)		
802.11ac MIMO 20M (5GHz)	Sum	CH 110	5550	MCS0	15.00	13.82	No		
		CH 118	5590		15.00	13.83	No		
		CH 126	5630		15.00	13.81	No		
		CH 134	5670		9.50	8.38	No		
		CH 151	5755		15.00	14.08	No		
		CH 159	5795		14.50	13.54	No		
		CH 38	5190		12.50	11.49	No		
		CH 46	5230		18.30	16.66	No		
		CH 54	5270		18.30	16.58	No		
		CH 62	5310		12.00	11.39	No		
		CH 102	5510		12.50	12.07	No		
		CH 110	5550		18.30	16.76	No		
		CH 118	5590		18.30	16.90	No		
		CH 126	5630		18.30	16.92	No		
	CH 134	5670	12.50		11.62	No			
	CH 151	5755	18.30		16.81	No			
	CH 159	5795	17.50		16.22	No			
	802.11ac MIMO 20M (5GHz)	Ant3(Core0)	CH 36		5180	MCS0	10.50	9.48	No
			CH 40		5200		16.00	14.12	No
			CH 44		5220		16.00	14.23	No
CH 48			5240	16.00	14.31		No		
CH 52			5260	16.00	14.18		No		
CH 56			5280	16.00	14.14		No		
CH 60			5300	16.00	14.19		No		
CH 64			5320	10.50	10.28		No		
CH 100			5500	10.50	10.33		No		
CH 104			5520	16.00	14.22		No		
CH 108			5540	16.00	14.48		No		
CH 112			5560	16.00	14.60		No		
CH 116			5580	16.00	14.86		No		
CH 120			5600	16.00	14.94		No		
CH 124			5620	16.00	14.81		No		
CH 128			5640	16.00	14.67		No		
CH 132			5660	16.00	13.85		No		
CH 136			5680	16.00	13.57		No		
CH 140			5700	11.00	9.62		No		
CH 149			5745	16.00	13.38		No		
CH 153			5765	16.00	13.65		No		
CH 157			5785	16.00	13.84		No		
CH 161		5805	16.00	13.96	No				
CH 165		5825	15.00	13.34	No				
Ant4(Core1)		CH 36	5180	10.50	9.32		No		
		CH 40	5200	15.50	13.67		No		
		CH 44	5220	15.50	13.74		No		
		CH 48	5240	15.50	13.86		No		
		CH 52	5260	15.50	13.51		No		
		CH 56	5280	15.50	13.64		No		
		CH 60	5300	15.50	13.48		No		
		CH 64	5320	10.50	9.22		No		
		CH 100	5500	10.50	9.19		No		
		CH 104	5520	15.50	12.87		No		
	CH 108	5540	15.50	12.87	No				
	CH 112	5560	15.50	12.73	No				
CH 116	5580	15.50	12.98	No					

		CH 120	5600		15.50	13.08	No
		CH 124	5620		15.50	13.12	No
		CH 128	5640		15.50	12.96	No
		CH 132	5660		15.50	12.66	No
		CH 136	5680		15.50	12.67	No
		CH 140	5700		11.00	9.16	No
		CH 149	5745		15.50	13.10	No
		CH 153	5765		15.50	13.05	No
		CH 157	5785		15.50	13.23	No
		CH 161	5805		15.50	13.31	No
		CH 165	5825		15.00	13.18	No
		Sum	CH 36		5180	13.50	12.41
	CH 40		5200		18.80	16.91	No
	CH 44		5220		18.80	17.00	No
	CH 48		5240		18.80	17.10	No
	CH 52		5260		18.80	16.87	No
	CH 56		5280		18.80	16.91	No
	CH 60		5300		18.80	16.86	No
	CH 64		5320		13.50	12.79	No
	CH 100		5500		13.50	12.81	No
	CH 104		5520		18.80	16.61	No
	CH 108		5540		18.80	16.76	No
	CH 112		5560		18.80	16.78	No
	CH 116		5580		18.80	17.03	No
	CH 120		5600		18.80	17.12	No
	CH 124		5620		18.80	17.06	No
	CH 128		5640		18.80	16.91	No
	CH 132		5660		18.80	16.31	No
	CH 136		5680		18.80	16.15	No
	CH 140		5700		14.00	12.41	No
	CH 149		5745		18.80	16.25	No
	CH 153		5765		18.80	16.37	No
CH 157	5785		18.80	16.56	No		
CH 161	5805		18.80	16.66	No		
CH 165	5825		18.00	16.27	No		
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO 40M (5GHz)	Ant3(Core0)	CH 38	5190	MCS0	9.50	8.30	No
		CH 46	5230		15.50	13.92	No
		CH 54	5270		15.50	13.85	No
		CH 62	5310		9.00	8.29	No
		CH 102	5510		9.50	9.28	No
		CH 110	5550		15.50	14.27	No
		CH 118	5590		15.50	14.62	No
		CH 126	5630		15.50	14.38	No
		CH 134	5670		9.50	8.79	No
		CH 151	5755		15.50	13.19	No
		CH 159	5795		14.50	12.90	No
		Ant4(Core1)	CH 38		5190	9.50	8.79
	CH 46		5230		15.00	13.40	No
	CH 54		5270		15.00	13.31	No
	CH 62		5310		9.00	8.07	No
	CH 102		5510		9.50	8.37	No
	CH 110		5550		15.00	12.53	No
	CH 118	5590	15.00		12.92	No	
CH 126	5630	15.00	12.79	No			

		CH 134	5670		9.50	8.35	No
		CH 151	5755		15.00	12.75	No
		CH 159	5795		14.50	12.64	No
	Sum	CH 38	5190		12.50	11.56	No
		CH 46	5230		18.30	16.68	No
		CH 54	5270		18.30	16.60	No
		CH 62	5310		12.00	11.19	No
		CH 102	5510		12.50	11.86	No
		CH 110	5550		18.30	16.50	No
		CH 118	5590		18.30	16.86	No
		CH 126	5630		18.30	16.67	No
		CH 134	5670		12.50	11.59	No
		CH 151	5755		18.30	15.99	No
		CH 159	5795		17.50	15.78	No
		Mode	Antenna		Channel	Frequency (MHz)	Data Rate (Mbps)
802.11ac MIMO 80M (5GHz)	Ant3(Core0)	CH 42	5210	MCS0	6.50	4.90	No
		CH 58	5290		6.50	4.33	No
		CH 106	5530		6.50	3.59	No
		CH 122	5610		6.50	3.97	No
		CH 155	5775		11.50	10.60	No
	Ant4(Core1)	CH 42	5210		6.50	4.68	No
		CH 58	5290		6.50	5.04	No
		CH 106	5530		6.50	4.05	No
		CH 122	5610		6.50	4.09	No
		CH 155	5775		11.50	10.33	No
	Sum	CH 42	5210		9.50	7.80	No
		CH 58	5290		9.50	7.71	No
		CH 106	5530		9.50	6.84	No
		CH 122	5610		9.50	7.04	No
		CH 155	5775		14.50	13.48	No
Mode	Antenna	Channel	Frequency (MHz)	Data Rate (Mbps)	Tune-up	Average Power (dBm)	SAR Test (Yes/No)
802.11ac MIMO 160 (5GHz)	Ant3(Core0)	CH 50	5250	MCS0	6.50	4.75	No
		CH 114	5570		6.50	4.16	No
	Ant4(Core1)	CH 50	5250		6.50	4.12	No
		CH 114	5570		6.50	4.23	No
	Sum	CH 50	5250		9.50	7.46	No
		CH 114	5570		9.50	7.21	No

Table 105: Conducted power measurement results of WiFi 5G CDD/MIMO (Receiver off)

Note:

- 1) The Average conducted power of WiFi is measured with RMS detector.
- 2) As different maximum tune-up output power is specified across the different channels range. So the additional conducted power measurement for the adjacent channel of each power level stage is also performed in this report to ensure compliance.
- 3) The MCC should be set to the FCC mobile country code. WIFI SAR Test should be evaluated at the power level of FCC mobile country code for each exposure conditions.

### 7.1.31 Conducted power measurements of BT

BT	Tune-up	Average Conducted Power (dBm)		
	Max.	0CH	12CH	23CH
DH5	18.30	16.35	<b>17.36</b>	16.80
2DH5	16.40	14.55	15.55	14.99
3DH5	16.40	15.54	15.54	14.48
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	24CH	28CH	32CH
DH5	17.30	16.66	16.25	15.95
2DH5	15.40	14.85	14.44	14.12
3DH5	15.40	14.84	14.44	14.13
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	33CH	40CH	46CH
DH5	16.90	15.67	15.80	16.20
2DH5	15.00	13.87	14.00	14.41
3DH5	15.00	13.88	14.01	14.41
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	47CH	56CH	64CH
DH5	17.20	16.24	16.22	15.77
2DH5	15.30	14.44	14.43	13.99
3DH5	15.30	14.44	14.42	13.99
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	65CH	70CH	74CH
DH5	16.50	15.68	15.17	14.61
2DH5	14.60	13.91	13.38	12.83
3DH5	14.60	13.91	13.38	12.83
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	75CH	77CH	78CH
DH5	15.20	14.40	14.20	13.78
2DH5	13.30	12.63	12.45	12.02
3DH5	13.00	12.62	12.44	12.00

Table 106: Conducted power measurement results of BT (High Power level A)

BT	Tune-up	Average Conducted Power (dBm)		
	Max.	0CH	5CH	10CH
DH5	10.50	8.35	8.83	8.85
2DH5	8.50	6.32	6.79	6.81
3DH5	8.50	6.32	6.80	6.81
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	11CH	40CH	68CH
DH5	11.00	8.91	<b>9.68</b>	9.00
2DH5	9.00	6.89	7.73	7.18
3DH5	9.00	6.90	7.74	7.19
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	69CH	74CH	78CH
DH5	10.00	8.91	8.38	7.55
2DH5	8.50	7.08	6.53	5.78
3DH5	8.50	7.08	6.52	5.78
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	1CH	3CH	5CH
BLE	8.00	5.72	5.50	5.02
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	6CH	19CH	31CH
BLE	9.00	5.56	6.02	6.87
BT	Tune-up	Average Conducted Power (dBm)		
	Max.	32CH	36CH	39CH
BLE	7.50	6.86	5.44	4.88

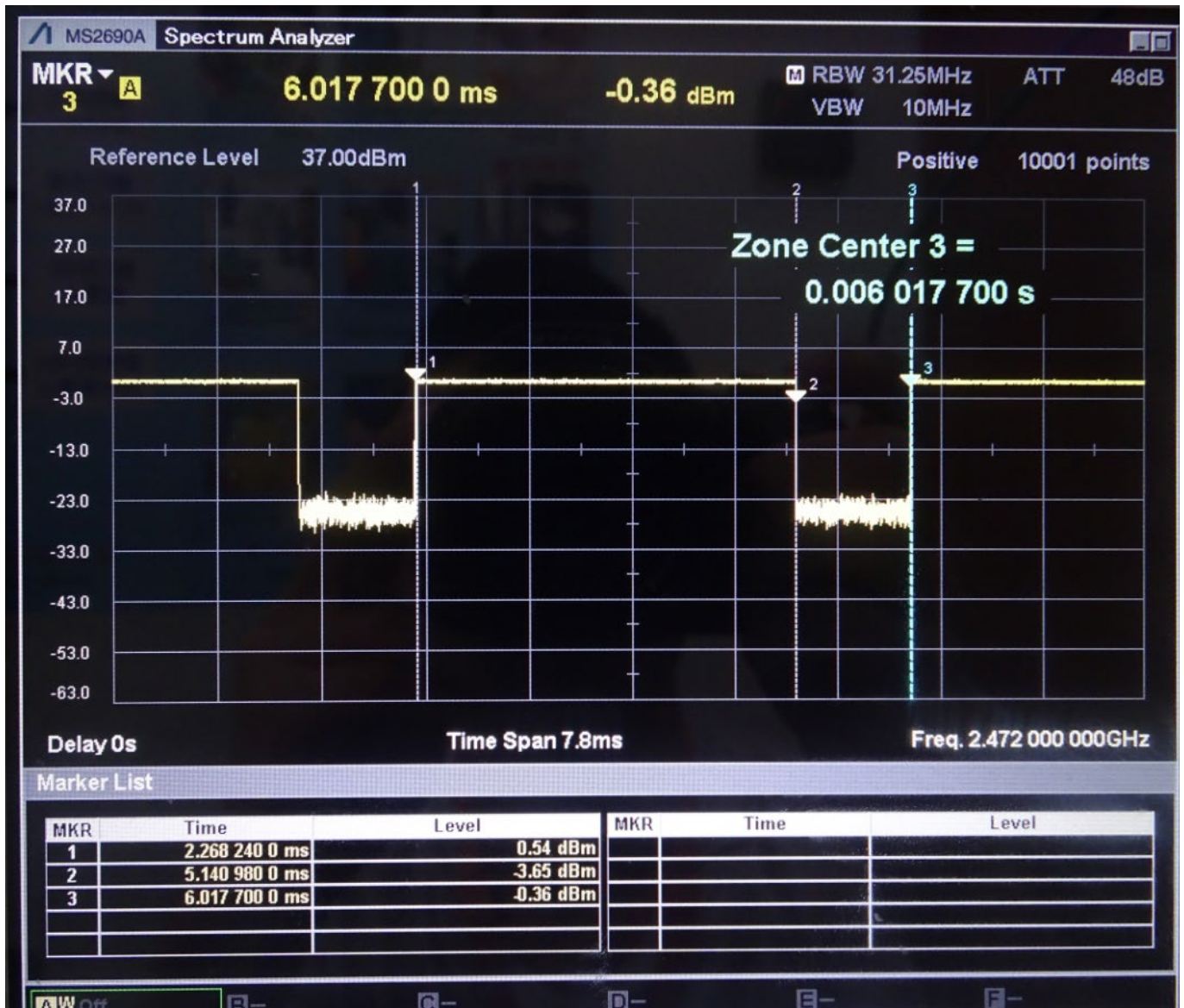
Table 107: Conducted power measurement results of BT (Normal Power level B)

Note:

- 1)The conducted power of BT is measured with RMS detector.
- 2)The bolded mode was selected for SAR testing.
- 3)As different maximum tune-up output power is specified across the different channels range. So the additional conducted power measurement for the adjacent channel of each power level stage is also performed in this report to ensure compliance.
- 4) BT BLE does not support High power level A mode.

Figure: Bluetooth Transmission Plot





So the actual bluetooth duty cycle is calculated as below:

$$\text{Duty cycle} = \text{pules} \frac{\text{width}}{\text{period}} * 100\% = \frac{2.87274\text{ms}}{3.74946\text{ms}} * 100\% \approx 77\%$$

## 7.2 SAR measurement Results

### General Notes:

1) Per KDB 447498 D01, all SAR measurement results are scaled to the maximum tune-up tolerance limit to demonstrate SAR compliance.

2) Per KDB 447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- $\leq 0.8\text{W/kg}$  for 1-g or  $2.0\text{W/kg}$  for 10-g respectively, when the transmission band is  $\leq 100\text{MHz}$ .
- $\leq 0.6\text{ W/kg}$  or  $1.5\text{ W/kg}$ , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- $\leq 0.4\text{ W/kg}$  or  $1.0\text{ W/kg}$ , for 1-g or 10-g respectively, when the transmission band is  $\geq 200\text{ MHz}$ .

When the maximum output power variation across the required test channels is  $> \frac{1}{2}\text{ dB}$ , instead of the middle channel, the highest output power channel must be used.

3) Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8\text{W/kg}$ ; if the deviation among the repeated measurement is  $\leq 20\%$ , and the measured SAR  $< 1.45\text{W/kg}$ , only one repeated measurement is required.

4) Per KDB 941225 D06, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

5) Per KDB 648474 D04, SAR is evaluated without a headset connected to the device. When the standalone reported body-worn SAR is  $\leq 1.2\text{ W/kg}$ , no additional SAR evaluations using a headset are required.

6) Per KDB 865664 D02, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is  $> 1.5\text{ W/kg}$ , or  $> 7.0\text{ W/kg}$  for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing (Refer to appendix B for details).

7) Per KDB 648474 D04, Body-worn accessories that do not contain metallic or conductive components is tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.

8) Per KDB 648474 D04, Phones with built-in NFC functions do not require separate SAR testing and can generally be tested according to the SAR measurement procedures normally required for the phone. Influences of the hardware introduced by the built-in NFC functions are inherently considered through testing of the other transmitters that require SAR evaluation.

9) For this device, the receiver is designed under the screen and invisible. In order to solve the head positioning issue and locate the receiver accurately during Head SAR test, the test lab should follow the manufacturer specification and precisely identify the earpiece location and the best acoustic position on the handset. For Head SAR test, full SAR test is performed with the normal audio receiver position per IEEE 1528-2013. Additional Head SAR spot check tests are also performed with the best acoustic position based on the Head SAR worst case of each Tx antenna to ensure SAR compliance.

### GSM Notes:

- 1) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
- 2) Per KDB 648474 D04, the device does not support DTM function. Body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.

### UMTS Notes:

- 1) Per KDB 941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### LTE Notes:

- 1) The LTE test configurations are determined according to KDB 941225 D05 SAR for LTE Devices. The general test procedures used for SAR testing can be found in Section 6.5.
- 2) A-MPR was disabled for all SAR test by setting NS\_01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI)
- 3) According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR is tested using a fixed periodic duty factor according to the highest transmission duty factor (63.33%) implemented for the device and supported by the defined 3GPP LTE TDD configurations.

### WiFi Notes:

Per KDB 248227D01:

- 1) When reported SAR for the initial test position is  $\leq 0.4$  W/kg, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is  $\leq 0.8$  W/kg or all test position are measured. For all positions/configurations tested using the initial test position and subsequent test positions, when the *reported* SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is  $\leq 1.2$  W/kg or all required channels are tested..
- 2) When the DSSS *reported* SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 3) When the highest *reported* SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations
- 4) The highest SAR measured for the initial test position or initial test configuration should be used to determine SAR test exclusion according to the sum of 1-g SAR and SAR peak to location ratio provisions in KDB 447498. In addition, a test lab may also choose to perform standalone SAR measurements for test positions and 802.11 configurations that are not required by the initial test position or initial test configuration procedures and apply the results to determine simultaneous transmission SAR test exclusion, according to sum of 1-g and SAR peak to location ratio requirements to reduce the number of simultaneous transmission SAR measurements.

### 7.2.1 SAR measurement Results of GSM850

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	190/836.6	GSM	0.102	0.071	0.02	28.49	29.50	0.129	Battery 1#	/
Left tilt	190/836.6	GSM	0.065	0.045	-0.04	28.49	29.50	0.082	Battery 1#	/
Right cheek	190/836.6	GSM	0.368	0.203	-0.12	28.49	29.50	0.464	Battery 1#	Yes
Right tilt	190/836.6	GSM	0.357	0.175	-0.03	28.49	29.50	0.450	Battery 1#	/
Right cheek	190/836.6	GSM	0.333	0.181	-0.13	28.49	29.50	0.420	Battery 2#	/
Main Antenna										
Left cheek	190/836.6	GSM	0.144	0.079	-0.11	33.26	34.00	0.171	Battery 1#	/
Left tilt	190/836.6	GSM	0.071	0.049	0.05	33.26	34.00	0.084	Battery 1#	/
Right cheek	190/836.6	GSM	0.201	0.088	-0.09	33.26	34.00	0.238	Battery 1#	Yes
Right tilt	190/836.6	GSM	0.061	0.042	-0.03	33.26	34.00	0.073	Battery 1#	/
Right cheek	190/836.6	GSM	0.138	0.108	-0.11	33.26	34.00	0.164	Battery 2#	/

Table 108: Head SAR test results of GSM850

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	190/836.6	GSM	0.069	0.047	0.00	33.26	34.00	0.081	Battery 1#	/
Back Side	15mm	190/836.6	GSM	0.072	0.049	-0.01	33.26	34.00	0.085	Battery 1#	Yes
Back Side	15mm	190/836.6	GSM	0.069	0.047	-0.05	33.26	34.00	0.082	Battery 2#	/
Main Antenna											
Front Side	15mm	190/836.6	GSM	0.227	0.168	-0.07	33.26	34.00	0.269	Battery 1#	/
Back Side	15mm	190/836.6	GSM	0.329	0.234	-0.02	33.26	34.00	0.390	Battery 1#	Yes
Back Side	15mm	190/836.6	GSM	0.316	0.225	-0.16	33.26	34.00	0.375	Battery 2#	/

Table 109: Body Worn SAR test results of GSM850

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	190/836.6	GPRS 2TS	0.426	0.238	0.01	31.05	32.00	0.530	Battery 1#	/
Back Side	10mm	190/836.6	GPRS 2TS	0.560	0.313	-0.08	31.05	32.00	0.697	Battery 1#	Yes
Left Side	10mm	190/836.6	GPRS 2TS	0.211	0.141	-0.03	31.05	32.00	0.263	Battery 1#	/
Top Side	10mm	190/836.6	GPRS 2TS	0.301	0.145	-0.10	31.05	32.00	0.375	Battery 1#	/
Back Side	10mm	190/836.6	GPRS 2TS	0.522	0.294	-0.01	31.05	32.00	0.650	Battery 2#	/
Main Antenna											
Front Side	10mm	190/836.6	GPRS 2TS	0.408	0.279	-0.04	31.06	32.00	0.507	Battery 1#	/
Back Side	10mm	190/836.6	GPRS 2TS	0.468	0.285	0.07	31.06	32.00	0.581	Battery 1#	/
Left Side	10mm	190/836.6	GPRS 2TS	0.390	0.200	0.00	31.06	32.00	0.484	Battery 1#	/
Right Side	10mm	190/836.6	GPRS 2TS	0.213	0.142	-0.02	31.06	32.00	0.264	Battery 1#	/
Bottom Side	10mm	190/836.6	GPRS 2TS	0.367	0.234	-0.03	31.06	32.00	0.456	Battery 1#	/
Back Side	10mm	190/836.6	GPRS 2TS	0.513	0.307	-0.06	31.06	32.00	0.637	Battery 2#	Yes

Table 110: Hotspot SAR test results of GSM850

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



## 7.2.2 SAR measurement Results of GSM1900

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	661/1880	GSM	0.252	0.120	0.13	26.41	28.00	0.363	Battery 1#	/
Left tilt	661/1880	GSM	0.358	0.164	0.11	26.41	28.00	0.516	Battery 1#	/
Right cheek	661/1880	GSM	0.203	0.112	0.17	26.41	28.00	0.293	Battery 1#	/
Right tilt	661/1880	GSM	0.381	0.180	0.07	26.41	28.00	0.549	Battery 1#	Yes
Right tilt	661/1880	GSM	0.361	0.171	0.00	26.41	28.00	0.521	Battery 2#	/
Main Antenna										
Left cheek	661/1880	GSM	0.082	0.052	0.18	29.71	30.50	0.098	Battery 1#	/
Left tilt	661/1880	GSM	0.043	0.023	0.07	29.71	30.50	0.051	Battery 1#	/
Right cheek	661/1880	GSM	0.062	0.039	0.10	29.71	30.50	0.075	Battery 1#	/
Right tilt	661/1880	GSM	0.044	0.026	0.12	29.71	30.50	0.053	Battery 1#	/
Left cheek	661/1880	GSM	0.087	0.056	0.15	29.71	30.50	0.105	Battery 2#	Yes

Table 111: Head SAR test results of GSM1900

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	661/1880	GSM	0.050	0.029	-0.08	28.68	30.00	0.068	Battery 1#	/
Back Side	15mm	661/1880	GSM	0.059	0.035	-0.17	28.68	30.00	0.080	Battery 1#	Yes
Back Side	15mm	661/1880	GSM	0.053	0.032	0.09	28.68	30.00	0.072	Battery 2#	/
Main Antenna											
Front Side	15mm	661/1880	GSM	0.123	0.072	-0.18	29.71	30.50	0.147	Battery 1#	/
Back Side	15mm	661/1880	GSM	0.133	0.087	-0.07	29.71	30.50	0.159	Battery 1#	Yes
Back Side	15mm	661/1880	GSM	0.106	0.070	-0.13	29.71	30.50	0.127	Battery 2#	/

Table 112: Body Worn SAR test results of GSM1900

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	661/1880	GPRS 2TS	0.097	0.050	0.08	25.55	27.00	0.136	Battery 1#	/
Back Side	10mm	661/1880	GPRS 2TS	0.104	0.054	-0.19	25.55	27.00	0.145	Battery 1#	/
Left Side	10mm	661/1880	GPRS 2TS	0.028	0.016	0.09	25.55	27.00	0.039	Battery 1#	/
Top Side	10mm	661/1880	GPRS 2TS	0.281	0.148	-0.01	25.55	27.00	0.392	Battery 1#	/
Top Side	10mm	661/1880	GPRS 2TS	0.288	0.152	0.03	25.55	27.00	0.402	Battery 2#	Yes
Main Antenna											
Front Side	10mm	661/1880	GPRS 2TS	0.273	0.159	0.11	27.50	28.50	0.344	Battery 1#	/
Back Side	10mm	661/1880	GPRS 2TS	0.301	0.179	-0.09	27.50	28.50	0.379	Battery 1#	/
Left Side	10mm	661/1880	GPRS 2TS	0.064	0.036	-0.10	27.50	28.50	0.081	Battery 1#	/
Right Side	10mm	661/1880	GPRS 2TS	0.105	0.058	-0.14	27.50	28.50	0.132	Battery 1#	/
Bottom Side	10mm	661/1880	GPRS 2TS	0.539	0.308	0.03	27.50	28.50	0.678	Battery 1#	Yes
Bottom Side	10mm	661/1880	GPRS 2TS	0.463	0.269	0.00	27.50	28.50	0.583	Battery 2#	/

Table 113: Hotspot SAR test results of GSM1900

Per KDB648474D04, 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	661/1880	GPRS 2TS	0.097	0.050	0.08	25.55	28.00	0.171	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.104	0.054	-0.19	25.55	28.00	0.183	Yes
Left Side	10mm	661/1880	GPRS 2TS	0.028	0.016	0.09	25.55	28.00	0.049	Yes
Top Side	10mm	661/1880	GPRS 2TS	0.281	0.148	-0.01	25.55	28.00	0.494	Yes
Top Side	10mm	661/1880	GPRS 2TS	0.288	0.152	0.03	25.55	28.00	0.506	Yes
Main Antenna										
Front Side	10mm	661/1880	GPRS 2TS	0.273	0.159	0.11	27.50	28.50	0.344	Yes
Back Side	10mm	661/1880	GPRS 2TS	0.301	0.179	-0.09	27.50	28.50	0.379	Yes
Left Side	10mm	661/1880	GPRS 2TS	0.064	0.036	-0.10	27.50	28.50	0.081	Yes
Right Side	10mm	661/1880	GPRS 2TS	0.105	0.058	-0.14	27.50	28.50	0.132	Yes
Bottom Side	10mm	661/1880	GPRS 2TS	0.539	0.308	0.03	27.50	28.50	0.678	Yes
Bottom Side	10mm	661/1880	GPRS 2TS	0.463	0.269	0.00	27.50	28.50	0.583	Yes

Table 114: Product Specific 10-g SAR test reduction evaluation of GSM1900

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

### 7.2.3 SAR measurement Results of UMTS Band II

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	9400/1880	RMC	0.213	0.106	0.19	17.29	19.00	0.316	Battery 1#	/
Left tilt	9400/1880	RMC	0.297	0.144	0.13	17.29	19.00	0.440	Battery 1#	/
Right cheek	9400/1880	RMC	0.297	0.144	0.07	17.29	19.00	0.440	Battery 1#	/
Right tilt	9400/1880	RMC	0.431	0.202	0.11	17.29	19.00	0.639	Battery 1#	Yes
Right tilt	9400/1880	RMC	0.318	0.164	0.01	17.29	19.00	0.471	Battery 2#	/
Right tilt	9400/1880	RMC	0.405	0.194	0.01	17.29	19.00	0.600	With Protect Cover	/
Test at the best acoustic position										
Right tilt	9400/1880	RMC	0.406	0.193	0.04	17.29	19.00	0.602	Battery 1#	/
Main Antenna										
Left cheek	9400/1880	RMC	0.190	0.119	0.17	23.42	24.50	0.244	Battery 1#	Yes
Left tilt	9400/1880	RMC	0.091	0.051	0.14	23.42	24.50	0.117	Battery 1#	/
Right cheek	9400/1880	RMC	0.176	0.103	0.14	23.42	24.50	0.226	Battery 1#	/
Right tilt	9400/1880	RMC	0.113	0.066	0.18	23.42	24.50	0.145	Battery 1#	/
Left cheek	9400/1880	RMC	0.179	0.122	0.18	23.42	24.50	0.229	Battery 2#	/

Table 115: Head SAR test results of UMTS Band II

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	9400/1880	RMC	0.095	0.056	-0.14	22.29	24.00	0.141	Battery 1#	/
Back Side	15mm	9400/1880	RMC	0.092	0.056	-0.15	22.29	24.00	0.136	Battery 1#	/
Front Side	15mm	9400/1880	RMC	0.098	0.057	0.11	22.29	24.00	0.145	Battery 2#	Yes
Main Antenna											
Front Side	15mm	9400/1880	RMC	0.178	0.110	-0.03	23.42	24.50	0.228	Battery 1#	/
Back Side	15mm	9400/1880	RMC	0.183	0.121	-0.12	23.42	24.50	0.235	Battery 1#	/
Back Side	15mm	9400/1880	RMC	0.217	0.138	-0.06	23.42	24.50	0.278	Battery 2#	Yes

Table 116: Body Worn SAR test results of UMTS Band II



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	9400/1880	RMC	0.218	0.117	0.02	19.28	21.00	0.324	Battery 1#	/
Back Side	10mm	9400/1880	RMC	0.190	0.109	0.01	19.28	21.00	0.282	Battery 1#	/
Left Side	10mm	9400/1880	RMC	0.034	0.019	0.12	19.28	21.00	0.051	Battery 1#	/
Top Side	10mm	9400/1880	RMC	0.262	0.138	0.06	19.28	21.00	0.389	Battery 1#	/
Top Side	10mm	9400/1880	RMC	0.275	0.144	0.10	19.28	21.00	0.409	Battery 2#	Yes
Main Antenna											
Front Side	10mm	9400/1880	RMC	0.236	0.137	0.01	21.43	22.50	0.302	Battery 1#	/
Back Side	10mm	9400/1880	RMC	0.210	0.126	-0.01	21.43	22.50	0.269	Battery 1#	/
Left Side	10mm	9400/1880	RMC	0.062	0.035	-0.14	21.43	22.50	0.080	Battery 1#	/
Right Side	10mm	9400/1880	RMC	0.090	0.050	0.02	21.43	22.50	0.116	Battery 1#	/
Bottom Side	10mm	9400/1880	RMC	0.350	0.205	0.02	21.43	22.50	0.448	Battery 1#	/
Bottom Side	10mm	9400/1880	RMC	0.418	0.240	0.02	21.43	22.50	0.535	Battery 2#	Yes

Table 117: Hotspot SAR test results of UMTS Band II

Per KDB648474D04, 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	9400/1880	RMC	0.218	0.117	0.02	19.28	24.00	0.646	Yes
Back Side	10mm	9400/1880	RMC	0.190	0.109	0.01	19.28	24.00	0.563	Yes
Left Side	10mm	9400/1880	RMC	0.034	0.019	0.12	19.28	24.00	0.101	Yes
Top Side	10mm	9400/1880	RMC	0.262	0.138	0.06	19.28	24.00	0.777	Yes
Top Side	10mm	9400/1880	RMC	0.275	0.144	0.10	19.28	24.00	0.815	Yes
Main Antenna										
Front Side	10mm	9400/1880	RMC	0.236	0.137	0.01	21.43	24.50	0.479	Yes
Back Side	10mm	9400/1880	RMC	0.210	0.126	-0.01	21.43	24.50	0.426	Yes
Left Side	10mm	9400/1880	RMC	0.062	0.035	-0.14	21.43	24.50	0.126	Yes
Right Side	10mm	9400/1880	RMC	0.090	0.050	0.02	21.43	24.50	0.183	Yes
Bottom Side	10mm	9400/1880	RMC	0.350	0.205	0.02	21.43	24.50	0.710	Yes
Bottom Side	10mm	9400/1880	RMC	0.418	0.240	0.02	21.43	24.50	0.848	Yes

Table 118: Product Specific 10-g SAR test reduction evaluation of UMTS Band II

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

### 7.2.4 SAR measurement Results of UMTS Band IV

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	1413/1732.6	RMC	0.175	0.086	-0.04	18.03	19.00	0.219	Battery 1#	/
Left tilt	1413/1732.6	RMC	0.109	0.063	0.17	18.03	19.00	0.136	Battery 1#	/
Right cheek	1413/1732.6	RMC	0.245	0.121	0.15	18.03	19.00	0.306	Battery 1#	/
Right tilt	1413/1732.6	RMC	0.403	0.193	0.13	18.03	19.00	0.504	Battery 1#	Yes
Right tilt	1413/1732.6	RMC	0.384	0.183	0.18	18.03	19.00	0.480	Battery 2#	/
Main Antenna										
Left cheek	1413/1732.6	RMC	0.213	0.169	0.00	23.59	24.50	0.263	Battery 1#	/
Left tilt	1413/1732.6	RMC	0.114	0.066	0.10	23.59	24.50	0.141	Battery 1#	/
Right cheek	1413/1732.6	RMC	0.203	0.135	0.18	23.59	24.50	0.250	Battery 1#	/
Right tilt	1413/1732.6	RMC	0.120	0.075	0.13	23.59	24.50	0.148	Battery 1#	/
Left cheek	1413/1732.6	RMC	0.322	0.207	0.00	23.59	24.50	0.397	Battery 2#	Yes
Test at the best acoustic position										
Left cheek	1413/1732.6	RMC	0.223	0.145	0.05	23.59	24.50	0.275	Battery 2#	/

Table 119: Head SAR test results of UMTS Band IV

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	1413/1732.6	RMC	0.082	0.049	-0.16	23.04	24.00	0.103	Battery 1#	/
Back Side	15mm	1413/1732.6	RMC	0.084	0.050	-0.15	23.04	24.00	0.105	Battery 1#	/
Back Side	15mm	1413/1732.6	RMC	0.093	0.055	-0.03	23.04	24.00	0.115	Battery 2#	Yes
Main Antenna											
Front Side	15mm	1413/1732.6	RMC	0.243	0.150	-0.17	23.59	24.50	0.300	Battery 1#	/
Back Side	15mm	1413/1732.6	RMC	0.290	0.196	-0.10	23.59	24.50	0.358	Battery 1#	Yes
Back Side	15mm	1413/1732.6	RMC	0.215	0.146	-0.10	23.59	24.50	0.265	Battery 2#	/

Table 120: Body Worn SAR test results of UMTS Band IV

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 Antenn											
Front Side	10mm	1413/1732.6	RMC	0.082	0.046	-0.01	20.05	21.00	0.102	Battery 1#	/
Back Side	10mm	1413/1732.6	RMC	0.080	0.045	-0.16	20.05	21.00	0.100	Battery 1#	/
Left Side	10mm	1413/1732.6	RMC	0.025	0.015	-0.18	20.05	21.00	0.031	Battery 1#	/
Top Side	10mm	1413/1732.6	RMC	0.187	0.099	-0.12	20.05	21.00	0.233	Battery 1#	Yes
Top Side	10mm	1413/1732.6	RMC	0.168	0.088	0.03	20.05	21.00	0.209	Battery 2#	/
Main Antenna											
Front Side	10mm	1413/1732.6	RMC	0.327	0.183	-0.10	21.60	22.50	0.402	Battery 1#	/
Back Side	10mm	1413/1732.6	RMC	0.291	0.196	-0.12	21.60	22.50	0.358	Battery 1#	/
Left Side	10mm	1413/1732.6	RMC	0.076	0.045	-0.02	21.60	22.50	0.094	Battery 1#	/
Right Side	10mm	1413/1732.6	RMC	0.149	0.080	0.00	21.60	22.50	0.183	Battery 1#	/
Bottom Side	10mm	1413/1732.6	RMC	0.483	0.282	-0.11	21.60	22.50	0.594	Battery 1#	Yes
Bottom Side	10mm	1413/1732.6	RMC	0.445	0.262	-0.07	21.60	22.50	0.547	Battery 2#	/

Table 121: Hotspot SAR test results of UMTS Band IV

Per KDB648474D04, 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	1413/1732.6	RMC	0.082	0.046	-0.01	20.05	24.00	0.203	Yes
Back Side	10mm	1413/1732.6	RMC	0.080	0.045	-0.16	20.05	24.00	0.199	Yes
Left Side	10mm	1413/1732.6	RMC	0.025	0.015	-0.18	20.05	24.00	0.061	Yes
Top Side	10mm	1413/1732.6	RMC	0.187	0.099	-0.12	20.05	24.00	0.464	Yes
Top Side	10mm	1413/1732.6	RMC	0.168	0.088	0.03	20.05	24.00	0.417	Yes
Main Antenna										
Front Side	10mm	1413/1732.6	RMC	0.327	0.183	-0.10	21.60	24.50	0.638	Yes
Back Side	10mm	1413/1732.6	RMC	0.291	0.196	-0.12	21.60	24.50	0.567	Yes
Left Side	10mm	1413/1732.6	RMC	0.076	0.045	-0.02	21.60	24.50	0.148	Yes
Right Side	10mm	1413/1732.6	RMC	0.149	0.080	0.00	21.60	24.50	0.291	Yes
Bottom Side	10mm	1413/1732.6	RMC	0.483	0.282	-0.11	21.60	24.50	0.942	Yes
Bottom Side	10mm	1413/1732.6	RMC	0.445	0.262	-0.07	21.60	24.50	0.868	Yes

Table 122: Product Specific 10-g SAR test reduction evaluation of UMTS Band IV

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

## 7.2.5 SAR measurement Results of UMTS Band V

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	4182/836.4	RMC	0.295	0.213	-0.05	17.74	19.00	0.394	Battery 1#	/
Left tilt	4182/836.4	RMC	0.311	0.149	-0.06	17.74	19.00	0.416	Battery 1#	/
Right cheek	4182/836.4	RMC	0.318	0.172	0.01	17.74	19.00	0.425	Battery 1#	/
Right tilt	4182/836.4	RMC	0.328	0.170	0.01	17.74	19.00	0.438	Battery 1#	/
Right tilt	4182/836.4	RMC	0.329	0.166	-0.01	17.74	19.00	0.440	Battery 2#	Yes
Main Antenna										
Left cheek	4182/836.4	RMC	0.082	0.056	0.01	23.86	25.00	0.106	Battery 1#	/
Left tilt	4182/836.4	RMC	0.065	0.044	0.02	23.86	25.00	0.084	Battery 1#	/
Right cheek	4182/836.4	RMC	0.121	0.094	-0.10	23.86	25.00	0.157	Battery 1#	/
Right tilt	4182/836.4	RMC	0.061	0.040	0.08	23.86	25.00	0.079	Battery 1#	/
Right cheek	4182/836.4	RMC	0.155	0.119	-0.09	23.86	25.00	0.202	Battery 2#	Yes

Table 123: Head SAR test results of UMTS Band V

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	4182/836.4	RMC	0.213	0.143	0.00	23.76	25.00	0.283	Battery 1#	/
Back Side	15mm	4182/836.4	RMC	0.255	0.173	-0.04	23.76	25.00	0.339	Battery 1#	Yes
Back Side	15mm	4182/836.4	RMC	0.222	0.152	-0.02	23.76	25.00	0.295	Battery 2#	/
Main Antenna											
Front Side	15mm	4182/836.4	RMC	0.228	0.157	-0.05	23.86	25.00	0.296	Battery 1#	/
Back Side	15mm	4182/836.4	RMC	0.310	0.219	-0.04	23.86	25.00	0.403	Battery 1#	Yes
Back Side	15mm	4182/836.4	RMC	0.284	0.201	-0.06	23.86	25.00	0.369	Battery 2#	/

Table 124: Body Worn SAR test results of UMTS Band V

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	4182/836.4	RMC	0.445	0.245	-0.02	23.76	25.00	0.592	Battery 1#	/
Back Side	10mm	4182/836.4	RMC	0.454	0.256	-0.17	23.76	25.00	0.604	Battery 1#	/
Left Side	10mm	4182/836.4	RMC	0.203	0.135	-0.14	23.76	25.00	0.270	Battery 1#	/
Top Side	10mm	4182/836.4	RMC	0.356	0.166	-0.19	23.76	25.00	0.474	Battery 1#	/
Back Side	10mm	4182/836.4	RMC	0.489	0.270	-0.03	23.76	25.00	0.651	Battery 2#	Yes
Main Antenna											
Front Side	10mm	4182/836.4	RMC	0.317	0.216	-0.06	23.86	25.00	0.412	Battery 1#	/
Back Side	10mm	4182/836.4	RMC	0.457	0.314	-0.01	23.86	25.00	0.594	Battery 1#	Yes
Left Side	10mm	4182/836.4	RMC	0.294	0.168	-0.01	23.86	25.00	0.382	Battery 1#	/
Right Side	10mm	4182/836.4	RMC	0.153	0.103	-0.07	23.86	25.00	0.199	Battery 1#	/
Bottom Side	10mm	4182/836.4	RMC	0.269	0.175	-0.09	23.86	25.00	0.350	Battery 1#	/
Back Side	10mm	4182/836.4	RMC	0.445	0.306	-0.04	23.86	25.00	0.579	Battery 2#	/

Table 125: Hotspot SAR test results of UMTS Band V

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

## 7.2.6 SAR measurement Results of LTE Band 2

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	18900/1880	20M QPSK 1RB#50	0.232	0.110	-0.16	17.22	18.50	0.312	Battery 1#	/
Left tilt	18900/1880	20M QPSK 1RB#50	0.319	0.147	0.12	17.22	18.50	0.428	Battery 1#	/
Right cheek	18900/1880	20M QPSK 1RB#50	0.173	0.089	0.14	17.22	18.50	0.232	Battery 1#	/
Right tilt	18900/1880	20M QPSK 1RB#50	0.335	0.161	0.19	17.22	18.50	0.450	Battery 1#	/
Left cheek	18900/1880	20M QPSK 50%RB#0	0.227	0.109	0.16	17.05	18.50	0.317	Battery 1#	/
Left tilt	18900/1880	20M QPSK 50%RB#0	0.313	0.145	0.16	17.05	18.50	0.437	Battery 1#	/
Right cheek	18900/1880	20M QPSK 50%RB#0	0.177	0.091	0.13	17.05	18.50	0.247	Battery 1#	/
Right tilt	18900/1880	20M QPSK 50%RB#0	0.381	0.182	0.02	17.05	18.50	0.532	Battery 1#	Yes
Right tilt	18900/1880	20M QPSK 50%RB#0	0.343	0.165	0.07	17.05	18.50	0.479	Battery 2#	/
Main Antenna										
Left cheek	19100/1900	20M QPSK 1RB#0	0.201	0.126	0.17	23.05	24.00	0.250	Battery 1#	Yes
Left tilt	19100/1900	20M QPSK 1RB#0	0.086	0.045	0.08	23.05	24.00	0.107	Battery 1#	/
Right cheek	19100/1900	20M QPSK 1RB#0	0.121	0.077	0.15	23.05	24.00	0.151	Battery 1#	/
Right tilt	19100/1900	20M QPSK 1RB#0	0.092	0.056	-0.02	23.05	24.00	0.115	Battery 1#	/
Left cheek	18900/1880	20M QPSK 50%RB#25	0.133	0.085	0.04	22.06	23.00	0.165	Battery 1#	/
Left tilt	18900/1880	20M QPSK 50%RB#25	0.069	0.036	0.04	22.06	23.00	0.086	Battery 1#	/
Right cheek	18900/1880	20M QPSK 50%RB#25	0.088	0.052	0.19	22.06	23.00	0.109	Battery 1#	/
Right tilt	18900/1880	20M QPSK 50%RB#25	0.077	0.046	0.07	22.06	23.00	0.095	Battery 1#	/
Left cheek	19100/1900	20M QPSK 1RB#0	0.170	0.109	0.16	23.05	24.00	0.212	Battery 2#	/

Table 126: Head SAR test results of LTE Band 2

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	19100/1900	20M QPSK 1RB#0	0.086	0.047	-0.10	22.05	23.50	0.120	Battery 1#	/
Back Side	15mm	19100/1900	20M QPSK 1RB#0	0.104	0.063	0.00	22.05	23.50	0.145	Battery 1#	Yes
Front Side	15mm	18700/1860	20M QPSK 50%RB#0	0.074	0.040	0.02	20.96	22.50	0.106	Battery 1#	/
Back Side	15mm	18700/1860	20M QPSK 50%RB#0	0.083	0.050	-0.18	20.96	22.50	0.118	Battery 1#	/
Back Side	15mm	19100/1900	20M QPSK 1RB#0	0.104	0.062	-0.19	22.05	23.50	0.145	Battery 2#	/
Main Antenna											
Front Side	15mm	19100/1900	20M QPSK 1RB#0	0.238	0.144	0.16	23.05	24.00	0.296	Battery 1#	/
Back Side	15mm	19100/1900	20M QPSK 1RB#0	0.247	0.152	-0.18	23.05	24.00	0.307	Battery 1#	Yes
Front Side	15mm	18900/1880	20M QPSK 50%RB#25	0.159	0.095	-0.03	22.06	23.00	0.197	Battery 1#	/
Back Side	15mm	18900/1880	20M QPSK 50%RB#25	0.176	0.104	-0.05	22.06	23.00	0.219	Battery 1#	/
Back Side	15mm	19100/1900	20M QPSK 1RB#0	0.212	0.133	-0.08	23.05	24.00	0.264	Battery 2#	/

Table 127: Body Worn SAR test results of LTE Band 2

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	18700/1860	20M QPSK 1RB#0	0.125	0.068	-0.09	19.29	20.50	0.165	Battery 1#	/
Back Side	10mm	18700/1860	20M QPSK 1RB#0	0.136	0.077	0.02	19.29	20.50	0.180	Battery 1#	/
Left Side	10mm	18700/1860	20M QPSK 1RB#0	0.034	0.019	0.12	19.29	20.50	0.044	Battery 1#	/
Top Side	10mm	18700/1860	20M QPSK 1RB#0	0.313	0.165	0.03	19.29	20.50	0.414	Battery 1#	Yes
Front Side	10mm	18700/1860	20M QPSK 50%RB#50	0.092	0.047	-0.11	19.22	20.50	0.123	Battery 1#	/
Back Side	10mm	18700/1860	20M QPSK 50%RB#50	0.113	0.063	-0.16	19.22	20.50	0.152	Battery 1#	/
Left Side	10mm	18700/1860	20M QPSK 50%RB#50	0.027	0.015	0.08	19.22	20.50	0.037	Battery 1#	/
Top Side	10mm	18700/1860	20M QPSK 50%RB#50	0.270	0.142	-0.13	19.22	20.50	0.363	Battery 1#	/
Top Side	10mm	18700/1860	20M QPSK 1RB#0	0.280	0.148	0.10	19.29	20.50	0.370	Battery 2#	/
Main Antenna											
Front Side	10mm	19100/1900	20M QPSK 1RB#50	0.265	0.151	-0.12	21.10	22.00	0.326	Battery 1#	/
Back Side	10mm	19100/1900	20M QPSK 1RB#50	0.328	0.185	-0.04	21.10	22.00	0.404	Battery 1#	/
Left Side	10mm	19100/1900	20M QPSK 1RB#50	0.077	0.043	-0.05	21.10	22.00	0.094	Battery 1#	/
Right Side	10mm	19100/1900	20M QPSK 1RB#50	0.108	0.059	-0.13	21.10	22.00	0.133	Battery 1#	/
Bottom Side	10mm	19100/1900	20M QPSK 1RB#50	0.499	0.288	0.15	21.10	22.00	0.614	Battery 1#	Yes
Front Side	10mm	18700/1860	20M QPSK 50%RB#0	0.239	0.137	-0.14	21.11	22.00	0.293	Battery 1#	/
Back Side	10mm	18700/1860	20M QPSK 50%RB#0	0.235	0.137	-0.07	21.11	22.00	0.288	Battery 1#	/
Left Side	10mm	18700/1860	20M QPSK 50%RB#0	0.058	0.033	-0.16	21.11	22.00	0.071	Battery 1#	/
Right Side	10mm	18700/1860	20M QPSK 50%RB#0	0.098	0.053	-0.07	21.11	22.00	0.120	Battery 1#	/
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#0	0.443	0.254	0.01	21.11	22.00	0.544	Battery 1#	/
Bottom Side	10mm	19100/1900	20M QPSK 1RB#50	0.482	0.277	0.14	21.10	22.00	0.593	Battery 2#	/

Table 128: Hotspot SAR test results of LTE Band 2



Per KDB648474D04, 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					
<b>Second Antenna</b>										
Front Side	10mm	18700/1860	20M QPSK 1RB#0	0.125	0.068	-0.09	19.29	23.50	0.330	Yes
Back Side	10mm	18700/1860	20M QPSK 1RB#0	0.136	0.077	0.02	19.29	23.50	0.359	Yes
Left Side	10mm	18700/1860	20M QPSK 1RB#0	0.034	0.019	0.12	19.29	23.50	0.088	Yes
Top Side	10mm	18700/1860	20M QPSK 1RB#0	0.313	0.165	0.03	19.29	23.50	0.825	Yes
Front Side	10mm	18700/1860	20M QPSK 50%RB#50	0.092	0.047	-0.11	19.22	22.50	0.195	Yes
Back Side	10mm	18700/1860	20M QPSK 50%RB#50	0.113	0.063	-0.16	19.22	22.50	0.240	Yes
Left Side	10mm	18700/1860	20M QPSK 50%RB#50	0.027	0.015	0.08	19.22	22.50	0.058	Yes
Top Side	10mm	18700/1860	20M QPSK 50%RB#50	0.270	0.142	-0.13	19.22	22.50	0.575	Yes
Top Side	10mm	18700/1860	20M QPSK 1RB#0	0.280	0.148	0.10	19.29	23.50	0.738	Yes
<b>Main Antenna</b>										
Front Side	10mm	19100/1900	20M QPSK 1RB#50	0.265	0.151	-0.12	21.10	24.00	0.517	Yes
Back Side	10mm	19100/1900	20M QPSK 1RB#50	0.328	0.185	-0.04	21.10	24.00	0.640	Yes
Left Side	10mm	19100/1900	20M QPSK 1RB#50	0.077	0.043	-0.05	21.10	24.00	0.149	Yes
Right Side	10mm	19100/1900	20M QPSK 1RB#50	0.108	0.059	-0.13	21.10	24.00	0.211	Yes
Bottom Side	10mm	19100/1900	20M QPSK 1RB#50	0.499	0.288	0.15	21.10	24.00	0.973	Yes
Front Side	10mm	18700/1860	20M QPSK 50%RB#0	0.239	0.137	-0.14	21.11	23.00	0.369	Yes
Back Side	10mm	18700/1860	20M QPSK 50%RB#0	0.235	0.137	-0.07	21.11	23.00	0.363	Yes
Left Side	10mm	18700/1860	20M QPSK 50%RB#0	0.058	0.033	-0.16	21.11	23.00	0.090	Yes
Right Side	10mm	18700/1860	20M QPSK 50%RB#0	0.098	0.053	-0.07	21.11	23.00	0.151	Yes
Bottom Side	10mm	18700/1860	20M QPSK 50%RB#0	0.443	0.254	0.01	21.11	23.00	0.685	Yes
Bottom Side	10mm	19100/1900	20M QPSK 1RB#50	0.482	0.277	0.14	21.10	24.00	0.940	Yes

Table 129: Product Specific 10-g SAR test reduction evaluation of LTE Band 2

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band.

## 7.2.7 SAR measurement Results of LTE Band 4

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	20050/1720	20M QPSK 1RB#50	0.206	0.099	0.08	18.36	19.00	0.239	Battery 1#	/
Left tilt	20050/1720	20M QPSK 1RB#50	0.298	0.138	0.13	18.36	19.00	0.345	Battery 1#	/
Right cheek	20050/1720	20M QPSK 1RB#50	0.255	0.124	0.05	18.36	19.00	0.295	Battery 1#	/
Right tilt	20050/1720	20M QPSK 1RB#50	0.373	0.178	0.05	18.36	19.00	0.432	Battery 1#	/
Left cheek	20050/1720	20M QPSK 50%RB#0	0.203	0.098	0.19	18.23	19.00	0.242	Battery 1#	/
Left tilt	20050/1720	20M QPSK 50%RB#0	0.313	0.145	0.19	18.23	19.00	0.374	Battery 1#	/
Right cheek	20050/1720	20M QPSK 50%RB#0	0.246	0.121	0.12	18.23	19.00	0.294	Battery 1#	/
Right tilt	20050/1720	20M QPSK 50%RB#0	0.392	0.187	0.15	18.23	19.00	0.468	Battery 1#	Yes
Right tilt	20050/1720	20M QPSK 50%RB#0	0.379	0.182	0.11	18.23	19.00	0.453	Battery 2#	/
Main Antenna										
Left cheek	20300/1745	20M QPSK 1RB#0	0.183	0.121	-0.10	23.78	24.50	0.216	Battery 1#	/
Left tilt	20300/1745	20M QPSK 1RB#0	0.113	0.065	0.09	23.78	24.50	0.133	Battery 1#	/
Right cheek	20300/1745	20M QPSK 1RB#0	0.190	0.124	0.16	23.78	24.50	0.224	Battery 1#	Yes
Right tilt	20300/1745	20M QPSK 1RB#0	0.125	0.079	0.05	23.78	24.50	0.148	Battery 1#	/
Left cheek	20300/1745	20M QPSK 50%RB#50	0.170	0.110	0.16	22.64	23.50	0.207	Battery 1#	/
Left tilt	20300/1745	20M QPSK 50%RB#50	0.086	0.046	0.11	22.64	23.50	0.105	Battery 1#	/
Right cheek	20300/1745	20M QPSK 50%RB#50	0.099	0.061	0.06	22.64	23.50	0.121	Battery 1#	/
Right tilt	20300/1745	20M QPSK 50%RB#50	0.082	0.050	0.08	22.64	23.50	0.100	Battery 1#	/
Right cheek	20300/1745	20M QPSK 1RB#0	0.169	0.105	0.11	23.78	24.50	0.199	Battery 2#	/

Table 130: Head SAR test results of LTE Band 4

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	20175/1732.5	20M QPSK 1RB#50	0.081	0.046	-0.07	23.19	24.00	0.098	Battery 1#	/
Back Side	15mm	20175/1732.5	20M QPSK 1RB#50	0.106	0.064	-0.18	23.19	24.00	0.128	Battery 1#	Yes
Front Side	15mm	20175/1732.5	20M QPSK 50%RB#25	0.065	0.037	0.12	21.99	23.00	0.082	Battery 1#	/
Back Side	15mm	20175/1732.5	20M QPSK 50%RB#25	0.085	0.050	0.02	21.99	23.00	0.107	Battery 1#	/
Back Side	15mm	20175/1732.5	20M QPSK 1RB#50	0.084	0.050	-0.13	23.19	24.00	0.101	Battery 2#	/
Main Antenna											
Front Side	15mm	20300/1745	20M QPSK 1RB#0	0.196	0.126	-0.11	23.78	24.50	0.231	Battery 1#	/
Back Side	15mm	20300/1745	20M QPSK 1RB#0	0.253	0.172	-0.13	23.78	24.50	0.299	Battery 1#	/
Front Side	15mm	20300/1745	20M QPSK 50%RB#50	0.160	0.102	-0.08	22.64	23.50	0.195	Battery 1#	/
Back Side	15mm	20300/1745	20M QPSK 50%RB#50	0.200	0.126	-0.13	22.64	23.50	0.244	Battery 1#	/
Back Side	15mm	20300/1745	20M QPSK 1RB#0	0.265	0.180	-0.07	23.78	24.50	0.313	Battery 2#	Yes

Table 131: Body Worn SAR test results of LTE Band 4

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	20050/1720	20M QPSK 1RB#99	0.091	0.051	-0.13	20.41	21.00	0.105	Battery 1#	/
Back Side	10mm	20050/1720	20M QPSK 1RB#99	0.087	0.049	0.18	20.41	21.00	0.099	Battery 1#	/
Left Side	10mm	20050/1720	20M QPSK 1RB#99	0.032	0.019	-0.19	20.41	21.00	0.037	Battery 1#	/
Top Side	10mm	20050/1720	20M QPSK 1RB#99	0.219	0.114	0.00	20.41	21.00	0.251	Battery 1#	Yes
Front Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.085	0.047	0.11	20.17	21.00	0.103	Battery 1#	/
Back Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.073	0.039	-0.12	20.17	21.00	0.088	Battery 1#	/
Left Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.032	0.019	-0.10	20.17	21.00	0.038	Battery 1#	/
Top Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.175	0.092	0.08	20.17	21.00	0.212	Battery 1#	/
Top Side	10mm	20050/1720	20M QPSK 1RB#99	0.183	0.096	0.15	20.41	21.00	0.210	Battery 2#	/
Main Antenna											
Front Side	10mm	20300/1745	20M QPSK 1RB#50	0.284	0.165	-0.07	21.35	22.00	0.330	Battery 1#	/
Back Side	10mm	20300/1745	20M QPSK 1RB#50	0.308	0.193	-0.15	21.35	22.00	0.358	Battery 1#	/
Left Side	10mm	20300/1745	20M QPSK 1RB#50	0.074	0.044	-0.05	21.35	22.00	0.086	Battery 1#	/
Right Side	10mm	20300/1745	20M QPSK 1RB#50	0.146	0.076	-0.08	21.35	22.00	0.170	Battery 1#	/
Bottom Side	10mm	20300/1745	20M QPSK 1RB#50	0.438	0.257	0.00	21.35	22.00	0.509	Battery 1#	/
Front Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.301	0.177	-0.12	21.23	22.00	0.359	Battery 1#	/
Back Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.292	0.175	-0.16	21.23	22.00	0.349	Battery 1#	/
Left Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.069	0.041	-0.15	21.23	22.00	0.083	Battery 1#	/
Right Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.122	0.067	-0.16	21.23	22.00	0.146	Battery 1#	/
Bottom Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.407	0.239	0.02	21.23	22.00	0.486	Battery 1#	/
Bottom Side	10mm	20300/1745	20M QPSK 1RB#50	0.443	0.255	-0.04	21.35	22.00	0.515	Battery 2#	Yes

Table 132: Hotspot SAR test results of LTE Band 4

Per KDB648474D04, 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	20050/1720	20M QPSK 1RB#99	0.091	0.051	-0.13	20.41	24.00	0.209	Yes
Back Side	10mm	20050/1720	20M QPSK 1RB#99	0.087	0.049	0.18	20.41	24.00	0.198	Yes
Left Side	10mm	20050/1720	20M QPSK 1RB#99	0.032	0.019	-0.19	20.41	24.00	0.074	Yes
Top Side	10mm	20050/1720	20M QPSK 1RB#99	0.219	0.114	0.00	20.41	24.00	0.501	Yes
Front Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.085	0.047	0.11	20.17	23.00	0.163	Yes
Back Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.073	0.039	-0.12	20.17	23.00	0.140	Yes
Left Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.032	0.019	-0.10	20.17	23.00	0.061	Yes
Top Side	10mm	20175/1732.5	20M QPSK 50%RB#25	0.175	0.092	0.08	20.17	23.00	0.336	Yes
Top Side	10mm	20050/1720	20M QPSK 1RB#99	0.183	0.096	0.15	20.41	24.00	0.418	Yes
Main Antenna										
Front Side	10mm	20300/1745	20M QPSK 1RB#50	0.284	0.165	-0.07	21.35	24.50	0.587	Yes
Back Side	10mm	20300/1745	20M QPSK 1RB#50	0.308	0.193	-0.15	21.35	24.50	0.636	Yes
Left Side	10mm	20300/1745	20M QPSK 1RB#50	0.074	0.044	-0.05	21.35	24.50	0.152	Yes
Right Side	10mm	20300/1745	20M QPSK 1RB#50	0.146	0.076	-0.08	21.35	24.50	0.302	Yes
Bottom Side	10mm	20300/1745	20M QPSK 1RB#50	0.438	0.257	0.00	21.35	24.50	0.905	Yes
Front Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.301	0.177	-0.12	21.23	23.50	0.508	Yes
Back Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.292	0.175	-0.16	21.23	23.50	0.492	Yes
Left Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.069	0.041	-0.15	21.23	23.50	0.117	Yes
Right Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.122	0.067	-0.16	21.23	23.50	0.206	Yes
Bottom Side	10mm	20175/1732.5	20M QPSK 50%RB#0	0.407	0.239	0.02	21.23	23.50	0.686	Yes
Bottom Side	10mm	20300/1745	20M QPSK 1RB#50	0.443	0.255	-0.04	21.35	24.50	0.915	Yes

Table 133: Product Specific 10-g SAR test reduction evaluation of LTE Band 4

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

## 7.2.8 SAR measurement Results of LTE Band 5

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	20525/836.5	10M QPSK 1RB#49	0.300	0.182	0.00	18.09	19.00	0.370	Battery 1#	/
Left tilt	20525/836.5	10M QPSK 1RB#49	0.379	0.216	-0.03	18.09	19.00	0.467	Battery 1#	/
Right cheek	20525/836.5	10M QPSK 1RB#49	0.307	0.162	0.08	18.09	19.00	0.379	Battery 1#	/
Right tilt	20525/836.5	10M QPSK 1RB#49	0.331	0.165	-0.15	18.09	19.00	0.403	Battery 1#	/
Left cheek	20450/829	10M QPSK 50%RB#13	0.334	0.200	-0.03	18.15	19.00	0.406	Battery 1#	/
Left tilt	20450/829	10M QPSK 50%RB#13	0.376	0.215	0.00	18.15	19.00	0.457	Battery 1#	/
Right cheek	20450/829	10M QPSK 50%RB#13	0.304	0.160	0.05	18.15	19.00	0.370	Battery 1#	/
Right tilt	20450/829	10M QPSK 50%RB#13	0.391	0.192	-0.03	18.15	19.00	0.476	Battery 1#	Yes
Right tilt	20450/829	10M QPSK 50%RB#13	0.329	0.174	0.12	18.15	19.00	0.400	Battery 2#	/
Main Antenna										
Left cheek	20525/836.5	10M QPSK 1RB#49	0.134	0.096	-0.07	23.95	25.00	0.171	Battery 1#	/
Left tilt	20525/836.5	10M QPSK 1RB#49	0.086	0.056	0.04	23.95	25.00	0.110	Battery 1#	/
Right cheek	20525/836.5	10M QPSK 1RB#49	0.165	0.127	0.10	23.95	25.00	0.210	Battery 1#	Yes
Right tilt	20525/836.5	10M QPSK 1RB#49	0.065	0.049	0.05	23.95	25.00	0.083	Battery 1#	/
Left cheek	20450/829	10M QPSK 50%RB#25	0.098	0.070	0.11	23.23	24.00	0.117	Battery 1#	/
Left tilt	20450/829	10M QPSK 50%RB#25	0.066	0.046	0.07	23.23	24.00	0.079	Battery 1#	/
Right cheek	20450/829	10M QPSK 50%RB#25	0.112	0.077	0.15	23.23	24.00	0.134	Battery 1#	/
Right tilt	20450/829	10M QPSK 50%RB#25	0.049	0.034	0.06	23.23	24.00	0.059	Battery 1#	/
Right cheek	20525/836.5	10M QPSK 1RB#49	0.158	0.124	-0.01	23.95	25.00	0.201	Battery 2#	/

Table 134: Head SAR test results of LTE Band 5

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	20525/836.5	10M QPSK 1RB#0	0.230	0.155	0.03	23.94	25.00	0.294	Battery 1#	/
Back Side	15mm	20525/836.5	10M QPSK 1RB#0	0.225	0.152	0.00	23.94	25.00	0.287	Battery 1#	/
Front Side	15mm	20525/836.5	10M QPSK 50%RB#13	0.178	0.120	0.09	22.98	24.00	0.225	Battery 1#	/
Back Side	15mm	20525/836.5	10M QPSK 50%RB#13	0.194	0.133	-0.05	22.98	24.00	0.245	Battery 1#	/
Front Side	15mm	20525/836.5	10M QPSK 1RB#0	0.231	0.155	-0.01	23.94	25.00	0.295	Battery 2#	Yes
Main Antenna											
Front Side	15mm	20525/836.5	10M QPSK 1RB#49	0.249	0.172	-0.06	23.95	25.00	0.317	Battery 1#	/
Back Side	15mm	20525/836.5	10M QPSK 1RB#49	0.312	0.222	0.00	23.95	25.00	0.397	Battery 1#	/
Front Side	15mm	20450/829	10M QPSK 50%RB#25	0.195	0.143	0.01	23.23	24.00	0.233	Battery 1#	/
Back Side	15mm	20450/829	10M QPSK 50%RB#25	0.231	0.158	0.01	23.23	24.00	0.276	Battery 1#	/
Back Side	15mm	20525/836.5	10M QPSK 1RB#49	0.344	0.245	-0.04	23.95	25.00	0.438	Battery 2#	Yes

Table 135: Body Worn SAR test results of LTE Band 5

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	20525/836.5	10M QPSK 1RB#0	0.481	0.267	-0.04	23.94	25.00	0.614	Battery 1#	/
Back Side	10mm	20525/836.5	10M QPSK 1RB#0	0.483	0.273	-0.04	23.94	25.00	0.617	Battery 1#	/
Left Side	10mm	20525/836.5	10M QPSK 1RB#0	0.211	0.140	-0.04	23.94	25.00	0.269	Battery 1#	/
Top Side	10mm	20525/836.5	10M QPSK 1RB#0	0.374	0.177	-0.06	23.94	25.00	0.477	Battery 1#	/
Front Side	10mm	20525/836.5	10M QPSK 50%RB#13	0.367	0.204	-0.02	22.98	24.00	0.464	Battery 1#	/
Back Side	10mm	20525/836.5	10M QPSK 50%RB#13	0.383	0.215	-0.04	22.98	24.00	0.484	Battery 1#	/
Left Side	10mm	20525/836.5	10M QPSK 50%RB#13	0.163	0.108	-0.10	22.98	24.00	0.206	Battery 1#	/
Top Side	10mm	20525/836.5	10M QPSK 50%RB#13	0.294	0.139	-0.01	22.98	24.00	0.372	Battery 1#	/
Back Side	10mm	20525/836.5	10M QPSK 1RB#0	0.503	0.283	-0.11	23.94	25.00	0.642	Battery 2#	Yes
Main Antenna											
Front Side	10mm	20525/836.5	10M QPSK 1RB#49	0.284	0.203	-0.02	23.95	25.00	0.362	Battery 1#	/
Back Side	10mm	20525/836.5	10M QPSK 1RB#49	0.450	0.269	-0.07	23.95	25.00	0.573	Battery 1#	Yes
Left Side	10mm	20525/836.5	10M QPSK 1RB#49	0.396	0.214	-0.05	23.95	25.00	0.504	Battery 1#	/
Right Side	10mm	20525/836.5	10M QPSK 1RB#49	0.191	0.128	-0.11	23.95	25.00	0.243	Battery 1#	/
Bottom Side	10mm	20525/836.5	10M QPSK 1RB#49	0.320	0.210	-0.03	23.95	25.00	0.408	Battery 1#	/
Front Side	10mm	20450/829	10M QPSK 50%RB#25	0.266	0.181	0.03	23.23	24.00	0.318	Battery 1#	/
Back Side	10mm	20450/829	10M QPSK 50%RB#25	0.359	0.229	-0.03	23.23	24.00	0.429	Battery 1#	/
Left Side	10mm	20450/829	10M QPSK 50%RB#25	0.232	0.125	0.00	23.23	24.00	0.277	Battery 1#	/
Right Side	10mm	20450/829	10M QPSK 50%RB#25	0.143	0.096	-0.08	23.23	24.00	0.171	Battery 1#	/
Bottom Side	10mm	20450/829	10M QPSK 50%RB#25	0.233	0.153	-0.03	23.23	24.00	0.278	Battery 1#	/
Back Side	10mm	20525/836.5	10M QPSK 1RB#49	0.441	0.264	-0.01	23.95	25.00	0.562	Battery 2#	/

Table 136: Hotspot SAR test results of LTE Band 5

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



## 7.2.9 SAR measurement Results of LTE Band 7

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	21100/2535	20M QPSK 1RB#50	0.126	0.058	0.15	16.38	17.00	0.145	Battery 1#	/
Left tilt	21100/2535	20M QPSK 1RB#50	0.162	0.076	0.08	16.38	17.00	0.187	Battery 1#	/
Right cheek	21100/2535	20M QPSK 1RB#50	0.243	0.170	-0.12	16.38	17.00	0.280	Battery 1#	/
Right tilt	21100/2535	20M QPSK 1RB#50	0.330	0.138	0.04	16.38	17.00	0.381	Battery 1#	/
Left cheek	21100/2535	20M QPSK 50%RB#25	0.127	0.058	0.19	16.21	17.00	0.152	Battery 1#	/
Left tilt	21100/2535	20M QPSK 50%RB#25	0.160	0.075	0.13	16.21	17.00	0.192	Battery 1#	/
Right cheek	21100/2535	20M QPSK 50%RB#25	0.254	0.111	-0.14	16.21	17.00	0.305	Battery 1#	/
Right tilt	21100/2535	20M QPSK 50%RB#25	0.339	0.143	0.02	16.21	17.00	0.407	Battery 1#	Yes
Right tilt	21100/2535	20M QPSK 50%RB#25	0.337	0.144	-0.07	16.21	17.00	0.404	Battery 2#	/
Main Antenna										
Left cheek	20850/2510	20M QPSK 1RB#99	0.088	0.047	0.18	23.23	24.00	0.105	Battery 1#	/
Left tilt	20850/2510	20M QPSK 1RB#99	0.038	0.019	0.17	23.23	24.00	0.045	Battery 1#	/
Right cheek	20850/2510	20M QPSK 1RB#99	0.137	0.072	0.12	23.23	24.00	0.164	Battery 1#	Yes
Right tilt	20850/2510	20M QPSK 1RB#99	0.031	0.015	0.11	23.23	24.00	0.037	Battery 1#	/
Left cheek	21350/2560	20M QPSK 50%RB#50	0.074	0.039	0.15	22.31	23.00	0.087	Battery 1#	/
Left tilt	21350/2560	20M QPSK 50%RB#50	0.038	0.019	0.08	22.31	23.00	0.045	Battery 1#	/
Right cheek	21350/2560	20M QPSK 50%RB#50	0.110	0.057	0.12	22.31	23.00	0.129	Battery 1#	/
Right tilt	21350/2560	20M QPSK 50%RB#50	0.027	0.013	0.17	22.31	23.00	0.032	Battery 1#	/
Right cheek	20850/2510	20M QPSK 1RB#99	0.131	0.070	0.07	23.23	24.00	0.156	Battery 2#	/

Table 137: Head SAR test results of LTE Band 7

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	21100/2535	20M QPSK 1RB#0	0.049	0.027	0.03	21.37	22.00	0.057	Battery 1#	/
Back Side	15mm	21100/2535	20M QPSK 1RB#0	0.135	0.068	-0.16	21.37	22.00	0.156	Battery 1#	/
Front Side	15mm	21100/2535	20M QPSK 50%RB#25	0.051	0.027	-0.11	21.25	22.00	0.061	Battery 1#	/
Back Side	15mm	21100/2535	20M QPSK 50%RB#25	0.155	0.077	-0.17	21.25	22.00	0.184	Battery 1#	Yes
Back Side	15mm	21100/2535	20M QPSK 50%RB#25	0.151	0.076	-0.12	21.25	22.00	0.179	Battery 2#	/
Main Antenna											
Front Side	15mm	20850/2510	20M QPSK 1RB#99	0.191	0.099	-0.04	23.23	24.00	0.228	Battery 1#	/
Back Side	15mm	20850/2510	20M QPSK 1RB#99	0.221	0.124	-0.18	23.23	24.00	0.264	Battery 1#	Yes
Front Side	15mm	21350/2560	20M QPSK 50%RB#50	0.147	0.075	-0.14	22.31	23.00	0.172	Battery 1#	/
Back Side	15mm	21350/2560	20M QPSK 50%RB#50	0.172	0.096	-0.09	22.31	23.00	0.202	Battery 1#	/
Back Side	15mm	20850/2510	20M QPSK 1RB#99	0.217	0.122	0.03	23.23	24.00	0.259	Battery 2#	/

Table 138: Body Worn SAR test results of LTE Band 7

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	21100/2535	20M QPSK 1RB#0	0.087	0.043	-0.12	19.27	20.00	0.103	Battery 1#	/
Back Side	10mm	21100/2535	20M QPSK 1RB#0	0.319	0.144	-0.12	19.27	20.00	0.377	Battery 1#	Yes
Left Side	10mm	21100/2535	20M QPSK 1RB#0	0.019	0.010	-0.19	19.27	20.00	0.022	Battery 1#	/
Top Side	10mm	21100/2535	20M QPSK 1RB#0	0.292	0.152	0.06	19.27	20.00	0.345	Battery 1#	/
Front Side	10mm	21100/2535	20M QPSK 50%RB#0	0.080	0.040	-0.07	18.98	20.00	0.102	Battery 1#	/
Back Side	10mm	21100/2535	20M QPSK 50%RB#0	0.263	0.118	-0.16	18.98	20.00	0.333	Battery 1#	/
Left Side	10mm	21100/2535	20M QPSK 50%RB#0	0.020	0.011	-0.19	18.98	20.00	0.025	Battery 1#	/
Top Side	10mm	21100/2535	20M QPSK 50%RB#0	0.271	0.142	-0.02	18.98	20.00	0.343	Battery 1#	/
Back Side	10mm	21100/2535	20M QPSK 1RB#0	0.317	0.143	-0.10	19.27	20.00	0.375	Battery 2#	/
Main Antenna											
Front Side	10mm	21350/2560	20M QPSK 1RB#0	0.167	0.083	0.08	21.34	22.00	0.194	Battery 1#	/
Back Side	10mm	21350/2560	20M QPSK 1RB#0	0.195	0.096	-0.07	21.34	22.00	0.227	Battery 1#	/
Left Side	10mm	21350/2560	20M QPSK 1RB#0	0.049	0.027	-0.16	21.34	22.00	0.057	Battery 1#	/
Right Side	10mm	21350/2560	20M QPSK 1RB#0	0.057	0.030	0.03	21.34	22.00	0.067	Battery 1#	/
Bottom Side	10mm	21100/2535	20M QPSK 1RB#99	0.289	0.154	0.06	20.81	21.50	0.339	Battery 1#	/
Front Side	10mm	21350/2560	20M QPSK 50%RB#50	0.163	0.079	0.15	21.27	22.00	0.193	Battery 1#	/
Back Side	10mm	21350/2560	20M QPSK 50%RB#50	0.198	0.097	-0.12	21.27	22.00	0.234	Battery 1#	/
Left Side	10mm	21350/2560	20M QPSK 50%RB#50	0.052	0.028	-0.17	21.27	22.00	0.061	Battery 1#	/
Right Side	10mm	21350/2560	20M QPSK 50%RB#50	0.058	0.030	0.16	21.27	22.00	0.068	Battery 1#	/
Bottom Side	10mm	21100/2535	20M QPSK 50%RB#0	0.278	0.148	0.02	20.76	21.50	0.330	Battery 1#	/
Bottom Side	10mm	21100/2535	20M QPSK 1RB#99	0.416	0.217	-0.14	20.81	21.50	0.488	Battery 2#	Yes
Additional SAR test at a conservative distance(triggering distance minus 1mm)											
Bottom Side	12mm	21350/2560	20M QPSK 1RB#0	0.401	0.213	-0.02	21.34	22.00	0.467	Battery 2#	/
Bottom Side	12mm	21350/2560	20M QPSK 50%RB#50	0.389	0.206	0.13	21.27	22.00	0.460	Battery 2#	/

Table 139: Hotspot SAR test results of LTE Band 7

Per KDB648474D04, 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					
<b>Second Antenna</b>										
Front Side	10mm	21100/2535	20M QPSK 1RB#0	0.087	0.043	-0.12	19.27	22.00	0.163	Yes
Back Side	10mm	21100/2535	20M QPSK 1RB#0	0.319	0.144	-0.12	19.27	22.00	0.598	Yes
Left Side	10mm	21100/2535	20M QPSK 1RB#0	0.019	0.010	-0.19	19.27	22.00	0.035	Yes
Top Side	10mm	21100/2535	20M QPSK 1RB#0	0.292	0.152	0.06	19.27	22.00	0.547	Yes
Front Side	10mm	21100/2535	20M QPSK 50%RB#0	0.080	0.040	-0.07	18.98	22.00	0.161	Yes
Back Side	10mm	21100/2535	20M QPSK 50%RB#0	0.263	0.118	-0.16	18.98	22.00	0.527	Yes
Left Side	10mm	21100/2535	20M QPSK 50%RB#0	0.020	0.011	-0.19	18.98	22.00	0.040	Yes
Top Side	10mm	21100/2535	20M QPSK 50%RB#0	0.271	0.142	-0.02	18.98	22.00	0.543	Yes
Back Side	10mm	21100/2535	20M QPSK 1RB#0	0.317	0.143	-0.10	19.27	22.00	0.594	Yes
<b>Main Antenna</b>										
Front Side	10mm	21350/2560	20M QPSK 1RB#0	0.167	0.083	0.08	21.34	24.00	0.308	Yes
Back Side	10mm	21350/2560	20M QPSK 1RB#0	0.195	0.096	-0.07	21.34	24.00	0.360	Yes
Left Side	10mm	21350/2560	20M QPSK 1RB#0	0.049	0.027	-0.16	21.34	24.00	0.091	Yes
Right Side	10mm	21350/2560	20M QPSK 1RB#0	0.057	0.030	0.03	21.34	24.00	0.106	Yes
Bottom Side	10mm	21100/2535	20M QPSK 1RB#99	0.289	0.154	0.06	20.81	24.00	0.602	Yes
Front Side	10mm	21350/2560	20M QPSK 50%RB#50	0.163	0.079	0.15	21.27	23.00	0.243	Yes
Back Side	10mm	21350/2560	20M QPSK 50%RB#50	0.198	0.097	-0.12	21.27	23.00	0.295	Yes
Left Side	10mm	21350/2560	20M QPSK 50%RB#50	0.052	0.028	-0.17	21.27	23.00	0.077	Yes
Right Side	10mm	21350/2560	20M QPSK 50%RB#50	0.058	0.030	0.16	21.27	23.00	0.086	Yes
Bottom Side	10mm	21100/2535	20M QPSK 50%RB#0	0.278	0.148	0.02	20.76	23.00	0.466	Yes
Bottom Side	10mm	21100/2535	20M QPSK 1RB#99	0.416	0.217	-0.14	20.81	24.00	0.867	Yes
<b>Additional SAR test at a conservative distance(triggering distance minus 1mm)</b>										
Bottom Side	12mm	21350/2560	20M QPSK 1RB#0	0.401	0.213	-0.02	21.34	24.00	0.740	Yes
Bottom Side	12mm	21350/2560	20M QPSK 50%RB#50	0.389	0.206	0.13	21.27	23.00	0.579	Yes

Table 140: Product Specific 10-g SAR test reduction evaluation of LTE Band 7

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

### 7.2.10 SAR measurement Results of LTE Band 12

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	23060/704	10M QPSK 1RB#0	0.054	0.026	0.13	20.54	21.50	0.067	Battery 1#	/
Left tilt	23060/704	10M QPSK 1RB#0	0.049	0.030	0.19	20.54	21.50	0.061	Battery 1#	/
Right cheek	23060/704	10M QPSK 1RB#0	0.059	0.030	0.16	20.54	21.50	0.073	Battery 1#	/
Right tilt	23060/704	10M QPSK 1RB#0	0.083	0.039	0.19	20.54	21.50	0.103	Battery 1#	/
Left cheek	23060/704	10M QPSK 50%RB#0	0.051	0.031	0.16	20.48	21.50	0.065	Battery 1#	/
Left tilt	23060/704	10M QPSK 50%RB#0	0.051	0.032	0.11	20.48	21.50	0.065	Battery 1#	/
Right cheek	23060/704	10M QPSK 50%RB#0	0.064	0.033	0.15	20.48	21.50	0.081	Battery 1#	/
Right tilt	23060/704	10M QPSK 50%RB#0	0.089	0.042	0.19	20.48	21.50	0.112	Battery 1#	Yes
Right tilt	23060/704	10M QPSK 50%RB#0	0.081	0.038	0.16	20.48	21.50	0.102	Battery 2#	/
Main Antenna										
Left cheek	23130/711	10M QPSK 1RB#49	0.094	0.071	-0.09	23.89	25.00	0.122	Battery 1#	Yes
Left tilt	23130/711	10M QPSK 1RB#49	0.053	0.041	0.07	23.89	25.00	0.068	Battery 1#	/
Right cheek	23130/711	10M QPSK 1RB#49	0.082	0.057	0.12	23.89	25.00	0.105	Battery 1#	/
Right tilt	23130/711	10M QPSK 1RB#49	0.044	0.031	0.06	23.89	25.00	0.057	Battery 1#	/
Left cheek	23130/711	10M QPSK 50%RB#25	0.065	0.045	0.19	22.96	24.00	0.083	Battery 1#	/
Left tilt	23130/711	10M QPSK 50%RB#25	0.036	0.025	0.19	22.96	24.00	0.045	Battery 1#	/
Right cheek	23130/711	10M QPSK 50%RB#25	0.059	0.041	0.17	22.96	24.00	0.074	Battery 1#	/
Right tilt	23130/711	10M QPSK 50%RB#25	0.034	0.024	0.07	22.96	24.00	0.044	Battery 1#	/
Left cheek	23130/711	10M QPSK 1RB#49	0.083	0.062	-0.17	23.89	25.00	0.107	Battery 2#	/

Table 141: Head SAR test results of LTE Band 12

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	23130/711	10M QPSK 1RB#49	0.028	0.019	-0.02	23.87	25.00	0.036	Battery 1#	Yes
Back Side	15mm	23130/711	10M QPSK 1RB#49	0.026	0.016	0.03	23.87	25.00	0.034	Battery 1#	/
Front Side	15mm	23130/711	10M QPSK 50%RB#13	0.017	0.012	-0.02	22.84	24.00	0.023	Battery 1#	/
Back Side	15mm	23130/711	10M QPSK 50%RB#13	0.020	0.013	-0.14	22.84	24.00	0.026	Battery 1#	/
Front Side	15mm	23130/711	10M QPSK 1RB#49	0.026	0.018	-0.02	23.87	25.00	0.034	Battery 2#	/
Main Antenna											
Front Side	15mm	23130/711	10M QPSK 1RB#49	0.162	0.113	-0.07	23.89	25.00	0.209	Battery 1#	/
Back Side	15mm	23130/711	10M QPSK 1RB#49	0.198	0.144	-0.03	23.89	25.00	0.256	Battery 1#	/
Front Side	15mm	23130/711	10M QPSK 50%RB#25	0.120	0.084	0.05	22.96	24.00	0.152	Battery 1#	/
Back Side	15mm	23130/711	10M QPSK 50%RB#25	0.139	0.097	0.03	22.96	24.00	0.177	Battery 1#	/
Back Side	15mm	23130/711	10M QPSK 1RB#49	0.199	0.144	-0.05	23.89	25.00	0.257	Battery 2#	Yes

Table 142: Body Worn SAR test results of LTE Band 12

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	23130/711	10M QPSK 1RB#49	0.056	0.031	-0.06	23.87	25.00	0.072	Battery 1#	/
Back Side	10mm	23130/711	10M QPSK 1RB#49	0.059	0.033	-0.18	23.87	25.00	0.077	Battery 1#	/
Left Side	10mm	23130/711	10M QPSK 1RB#49	0.023	0.015	0.01	23.87	25.00	0.029	Battery 1#	/
Top Side	10mm	23130/711	10M QPSK 1RB#49	0.049	0.026	-0.05	23.87	25.00	0.063	Battery 1#	/
Front Side	10mm	23130/711	10M QPSK 50%RB#13	0.039	0.025	0.03	22.84	24.00	0.051	Battery 1#	/
Back Side	10mm	23130/711	10M QPSK 50%RB#13	0.042	0.028	-0.07	22.84	24.00	0.055	Battery 1#	/
Left Side	10mm	23130/711	10M QPSK 50%RB#13	0.014	0.010	-0.09	22.84	24.00	0.019	Battery 1#	/
Top Side	10mm	23130/711	10M QPSK 50%RB#13	0.036	0.018	-0.10	22.84	24.00	0.046	Battery 1#	/
Back Side	10mm	23130/711	10M QPSK 1RB#49	0.061	0.034	0.13	23.87	25.00	0.079	Battery 2#	Yes
Main Antenna											
Front Side	10mm	23130/711	10M QPSK 1RB#49	0.223	0.160	-0.05	23.89	25.00	0.288	Battery 1#	/
Back Side	10mm	23130/711	10M QPSK 1RB#49	0.248	0.145	-0.15	23.89	25.00	0.320	Battery 1#	/
Left Side	10mm	23130/711	10M QPSK 1RB#49	0.234	0.137	-0.03	23.89	25.00	0.302	Battery 1#	/
Right Side	10mm	23130/711	10M QPSK 1RB#49	0.112	0.077	-0.09	23.89	25.00	0.145	Battery 1#	/
Bottom Side	10mm	23130/711	10M QPSK 1RB#49	0.123	0.077	-0.08	23.89	25.00	0.159	Battery 1#	/
Front Side	10mm	23130/711	10M QPSK 50%RB#25	0.167	0.115	0.02	22.96	24.00	0.212	Battery 1#	/
Back Side	10mm	23130/711	10M QPSK 50%RB#25	0.212	0.144	0.08	22.96	24.00	0.269	Battery 1#	/
Left Side	10mm	23130/711	10M QPSK 50%RB#25	0.175	0.102	-0.05	22.96	24.00	0.222	Battery 1#	/
Right Side	10mm	23130/711	10M QPSK 50%RB#25	0.085	0.058	0.03	22.96	24.00	0.108	Battery 1#	/
Bottom Side	10mm	23130/711	10M QPSK 50%RB#25	0.089	0.056	-0.06	22.96	24.00	0.114	Battery 1#	/
Back Side	10mm	23130/711	10M QPSK 1RB#49	0.252	0.148	0.00	23.89	25.00	0.325	Battery 2#	Yes

Table 143: Hotspot SAR test results of LTE Band 12

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

### 7.2.11 SAR measurement Results of LTE Band 26

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	26965/841.5	15M QPSK 1RB#38	0.320	0.163	-0.01	18.35	19.50	0.417	Battery 1#	/
Left tilt	26965/841.5	15M QPSK 1RB#38	0.340	0.174	0.00	18.35	19.50	0.443	Battery 1#	/
Right cheek	26965/841.5	15M QPSK 1RB#38	0.316	0.172	0.01	18.35	19.50	0.412	Battery 1#	/
Right tilt	26965/841.5	15M QPSK 1RB#38	0.335	0.164	0.00	18.35	19.50	0.437	Battery 1#	/
Left cheek	26965/841.5	15M QPSK 50%RB#0	0.322	0.164	0.00	18.42	19.50	0.413	Battery 1#	/
Left tilt	26965/841.5	15M QPSK 50%RB#0	0.352	0.171	0.00	18.42	19.50	0.451	Battery 1#	/
Right cheek	26965/841.5	15M QPSK 50%RB#0	0.315	0.172	0.02	18.42	19.50	0.404	Battery 1#	/
Right tilt	26965/841.5	15M QPSK 50%RB#0	0.378	0.195	0.01	18.42	19.50	0.485	Battery 1#	Yes
Right tilt	26965/841.5	15M QPSK 50%RB#0	0.351	0.179	0.01	18.42	19.50	0.450	Battery 2#	/
Main Antenna										
Left cheek	26865/831.5	15M QPSK 1RB#0	0.078	0.056	0.16	23.76	25.00	0.104	Battery 1#	/
Left tilt	26865/831.5	15M QPSK 1RB#0	0.046	0.032	0.10	23.76	25.00	0.061	Battery 1#	/
Right cheek	26865/831.5	15M QPSK 1RB#0	0.113	0.090	0.11	23.76	25.00	0.150	Battery 1#	/
Right tilt	26865/831.5	15M QPSK 1RB#0	0.047	0.033	0.08	23.76	25.00	0.063	Battery 1#	/
Left cheek	26965/841.5	15M QPSK 50%RB#39	0.098	0.066	0.17	23.03	24.00	0.122	Battery 1#	/
Left tilt	26965/841.5	15M QPSK 50%RB#39	0.057	0.039	0.15	23.03	24.00	0.072	Battery 1#	/
Right cheek	26965/841.5	15M QPSK 50%RB#39	0.127	0.101	0.07	23.03	24.00	0.159	Battery 1#	Yes
Right tilt	26965/841.5	15M QPSK 50%RB#39	0.056	0.038	0.13	23.03	24.00	0.070	Battery 1#	/
Right cheek	26965/841.5	15M QPSK 50%RB#39	0.122	0.097	0.06	23.03	24.00	0.153	Battery 2#	/

Table 144: Head SAR test results of LTE Band 26



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	26965/841.5	15M QPSK 1RB#38	0.230	0.157	-0.07	23.70	25.00	0.310	Battery 1#	/
Back Side	15mm	26965/841.5	15M QPSK 1RB#38	0.239	0.164	-0.19	23.70	25.00	0.322	Battery 1#	/
Front Side	15mm	26965/841.5	15M QPSK 50%RB#0	0.197	0.134	0.01	22.80	24.00	0.260	Battery 1#	/
Back Side	15mm	26965/841.5	15M QPSK 50%RB#0	0.200	0.137	-0.06	22.80	24.00	0.264	Battery 1#	/
Back Side	15mm	26965/841.5	15M QPSK 1RB#38	0.245	0.168	-0.07	23.70	25.00	0.330	Battery 2#	Yes
Main Antenna											
Front Side	15mm	26865/831.5	15M QPSK 1RB#0	0.221	0.163	-0.05	23.76	25.00	0.294	Battery 1#	/
Back Side	15mm	26865/831.5	15M QPSK 1RB#0	0.270	0.193	-0.11	23.76	25.00	0.359	Battery 1#	/
Front Side	15mm	26965/841.5	15M QPSK 50%RB#39	0.219	0.160	-0.02	23.03	24.00	0.274	Battery 1#	/
Back Side	15mm	26965/841.5	15M QPSK 50%RB#39	0.266	0.189	-0.02	23.03	24.00	0.333	Battery 1#	/
Back Side	15mm	26865/831.5	15M QPSK 1RB#0	0.276	0.198	-0.01	23.76	25.00	0.367	Battery 2#	Yes

Table 145: Body Worn SAR test results of LTE Band 26

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	26965/841.5	15M QPSK 1RB#38	0.483	0.267	0.02	23.70	25.00	0.652	Battery 1#	Yes
Back Side	10mm	26965/841.5	15M QPSK 1RB#38	0.437	0.250	-0.15	23.70	25.00	0.589	Battery 1#	/
Left Side	10mm	26965/841.5	15M QPSK 1RB#38	0.213	0.142	-0.04	23.70	25.00	0.287	Battery 1#	/
Top Side	10mm	26965/841.5	15M QPSK 1RB#38	0.325	0.147	-0.06	23.70	25.00	0.438	Battery 1#	/
Front Side	10mm	26965/841.5	15M QPSK 50%RB#0	0.414	0.227	-0.17	22.80	24.00	0.546	Battery 1#	/
Back Side	10mm	26965/841.5	15M QPSK 50%RB#0	0.352	0.200	-0.02	22.80	24.00	0.464	Battery 1#	/
Left Side	10mm	26965/841.5	15M QPSK 50%RB#0	0.170	0.114	-0.02	22.80	24.00	0.224	Battery 1#	/
Top Side	10mm	26965/841.5	15M QPSK 50%RB#0	0.251	0.113	-0.06	22.80	24.00	0.331	Battery 1#	/
Front Side	10mm	26965/841.5	15M QPSK 1RB#38	0.471	0.258	-0.12	23.70	25.00	0.635	Battery 2#	/
Main Antenna											
Front Side	10mm	26865/831.5	15M QPSK 1RB#0	0.313	0.214	-0.06	23.76	25.00	0.416	Battery 1#	/
Back Side	10mm	26865/831.5	15M QPSK 1RB#0	0.388	0.232	-0.02	23.76	25.00	0.516	Battery 1#	Yes
Left Side	10mm	26865/831.5	15M QPSK 1RB#0	0.206	0.103	-0.10	23.76	25.00	0.274	Battery 1#	/
Right Side	10mm	26865/831.5	15M QPSK 1RB#0	0.111	0.074	-0.08	23.76	25.00	0.148	Battery 1#	/
Bottom Side	10mm	26865/831.5	15M QPSK 1RB#0	0.294	0.193	-0.02	23.76	25.00	0.391	Battery 1#	/
Front Side	10mm	26965/841.5	15M QPSK 50%RB#39	0.300	0.205	0.00	23.03	24.00	0.375	Battery 1#	/
Back Side	10mm	26965/841.5	15M QPSK 50%RB#39	0.376	0.225	-0.02	23.03	24.00	0.470	Battery 1#	/
Left Side	10mm	26965/841.5	15M QPSK 50%RB#39	0.272	0.140	0.01	23.03	24.00	0.340	Battery 1#	/
Right Side	10mm	26965/841.5	15M QPSK 50%RB#39	0.128	0.085	-0.18	23.03	24.00	0.160	Battery 1#	/
Bottom Side	10mm	26965/841.5	15M QPSK 50%RB#39	0.268	0.176	-0.03	23.03	24.00	0.335	Battery 1#	/
Back Side	10mm	26865/831.5	15M QPSK 1RB#0	0.369	0.221	0.00	23.76	25.00	0.491	Battery 2#	/

Table 146: Hotspot SAR test results of LTE Band 26

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

### 7.2.12 SAR measurement Results of LTE Band 38

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	38000/2595	20M QPSK 1RB#0	0.093	0.044	0.14	19.33	19.80	0.104	Battery 1#	/
Left tilt	38000/2595	20M QPSK 1RB#0	0.125	0.058	0.15	19.33	19.80	0.139	Battery 1#	/
Right cheek	38000/2595	20M QPSK 1RB#0	0.155	0.072	0.02	19.33	19.80	0.173	Battery 1#	/
Right tilt	38000/2595	20M QPSK 1RB#0	0.402	0.167	0.06	19.33	19.80	0.448	Battery 1#	Yes
Left cheek	38000/2595	20M QPSK 50%RB#0	0.094	0.044	0.11	19.13	19.80	0.110	Battery 1#	/
Left tilt	38000/2595	20M QPSK 50%RB#0	0.124	0.057	0.12	19.13	19.80	0.145	Battery 1#	/
Right cheek	38000/2595	20M QPSK 50%RB#0	0.161	0.070	0.04	19.13	19.80	0.188	Battery 1#	/
Right tilt	38000/2595	20M QPSK 50%RB#0	0.244	0.104	0.00	19.13	19.80	0.285	Battery 1#	/
Right tilt	38000/2595	20M QPSK 1RB#0	0.400	0.167	-0.10	19.33	19.80	0.446	Battery 2#	/
Main Antenna										
Left cheek	37850/2580	20M QPSK 1RB#50	0.058	0.030	0.14	24.04	24.50	0.065	Battery 1#	/
Left tilt	37850/2580	20M QPSK 1RB#50	0.045	0.022	0.17	24.04	24.50	0.050	Battery 1#	/
Right cheek	37850/2580	20M QPSK 1RB#50	0.087	0.046	0.15	24.04	24.50	0.097	Battery 1#	/
Right tilt	37850/2580	20M QPSK 1RB#50	0.020	0.008	0.19	24.04	24.50	0.022	Battery 1#	/
Left cheek	37850/2580	20M QPSK 50%RB#50	0.039	0.019	0.15	22.87	23.50	0.045	Battery 1#	/
Left tilt	37850/2580	20M QPSK 50%RB#50	0.049	0.025	0.00	22.87	23.50	0.056	Battery 1#	/
Right cheek	37850/2580	20M QPSK 50%RB#50	0.073	0.037	0.14	22.87	23.50	0.084	Battery 1#	/
Right tilt	37850/2580	20M QPSK 50%RB#50	0.020	0.010	0.16	22.87	23.50	0.023	Battery 1#	/
Right cheek	37850/2580	20M QPSK 1RB#50	0.100	0.052	0.11	24.04	24.50	0.111	Battery 2#	Yes

Table 147: Head SAR test results of LTE Band 38

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	38000/2595	20M QPSK 1RB#0	0.039	0.021	0.14	23.14	23.80	0.045	Battery 1#	/
Back Side	15mm	38000/2595	20M QPSK 1RB#0	0.125	0.062	-0.12	23.14	23.80	0.146	Battery 1#	/
Front Side	15mm	37850/2580	20M QPSK 50%RB#0	0.043	0.022	-0.06	22.08	22.80	0.050	Battery 1#	/
Back Side	15mm	37850/2580	20M QPSK 50%RB#0	0.123	0.062	0.14	22.08	22.80	0.145	Battery 1#	/
Back Side	15mm	38000/2595	20M QPSK 1RB#0	0.156	0.078	-0.05	23.14	23.80	0.182	Battery 2#	Yes
Main Antenna											
Front Side	15mm	37850/2580	20M QPSK 1RB#50	0.128	0.065	-0.18	24.04	24.50	0.142	Battery 1#	/
Back Side	15mm	37850/2580	20M QPSK 1RB#50	0.181	0.101	-0.02	24.04	24.50	0.201	Battery 1#	Yes
Front Side	15mm	37850/2580	20M QPSK 50%RB#50	0.110	0.056	-0.01	22.87	23.50	0.127	Battery 1#	/
Back Side	15mm	37850/2580	20M QPSK 50%RB#50	0.146	0.082	0.04	22.87	23.50	0.169	Battery 1#	/
Back Side	15mm	37850/2580	20M QPSK 1RB#50	0.170	0.093	0.09	24.04	24.50	0.189	Battery 2#	/

Table 148: Body Worn SAR test results of LTE Band 38

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	38000/2595	20M QPSK 1RB#0	0.094	0.046	-0.12	22.21	22.80	0.108	Battery 1#	/
Back Side	10mm	38000/2595	20M QPSK 1RB#0	0.428	0.186	-0.08	22.21	22.80	0.490	Battery 1#	Yes
Left Side	10mm	38000/2595	20M QPSK 1RB#0	0.017	0.010	0.14	22.21	22.80	0.019	Battery 1#	/
Top Side	10mm	38000/2595	20M QPSK 1RB#0	0.229	0.118	-0.04	22.21	22.80	0.262	Battery 1#	/
Front Side	10mm	37850/2580	20M QPSK 50%RB#0	0.095	0.046	0.09	22.04	22.80	0.113	Battery 1#	/
Back Side	10mm	37850/2580	20M QPSK 50%RB#0	0.339	0.148	-0.12	22.04	22.80	0.404	Battery 1#	/
Left Side	10mm	37850/2580	20M QPSK 50%RB#0	0.017	0.010	-0.01	22.04	22.80	0.021	Battery 1#	/
Top Side	10mm	37850/2580	20M QPSK 50%RB#0	0.238	0.123	-0.10	22.04	22.80	0.284	Battery 1#	/
Back Side	10mm	38000/2595	20M QPSK 1RB#0	0.298	0.122	-0.15	22.21	22.80	0.341	Battery 2#	/
Main Antenna											
Front Side	10mm	37850/2580	20M QPSK 1RB#50	0.220	0.110	0.14	23.03	23.50	0.245	Battery 1#	/
Back Side	10mm	37850/2580	20M QPSK 1RB#50	0.276	0.134	-0.17	23.03	23.50	0.308	Battery 1#	/
Left Side	10mm	37850/2580	20M QPSK 1RB#50	0.051	0.029	-0.14	23.03	23.50	0.057	Battery 1#	/
Right Side	10mm	37850/2580	20M QPSK 1RB#50	0.068	0.036	0.01	23.03	23.50	0.076	Battery 1#	/
Bottom Side	10mm	37850/2580	20M QPSK 1RB#50	0.507	0.262	-0.06	23.03	23.50	0.565	Battery 1#	/
Front Side	10mm	37850/2580	20M QPSK 50%RB#25	0.222	0.110	0.14	22.88	23.50	0.256	Battery 1#	/
Back Side	10mm	37850/2580	20M QPSK 50%RB#25	0.278	0.135	-0.07	22.88	23.50	0.321	Battery 1#	/
Left Side	10mm	37850/2580	20M QPSK 50%RB#25	0.043	0.024	-0.06	22.88	23.50	0.049	Battery 1#	/
Right Side	10mm	37850/2580	20M QPSK 50%RB#25	0.057	0.030	0.10	22.88	23.50	0.065	Battery 1#	/
Bottom Side	10mm	37850/2580	20M QPSK 50%RB#25	0.541	0.280	-0.08	22.88	23.50	0.624	Battery 1#	Yes
Bottom Side	10mm	37850/2580	20M QPSK 50%RB#25	0.535	0.275	-0.15	22.88	23.50	0.617	Battery 2#	/

Table 149: Hotspot SAR test results of LTE Band 38

Per KDB648474D04, 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					
<b>Second Antenna</b>										
Front Side	10mm	38000/2595	20M QPSK 1RB#0	0.094	0.046	-0.12	22.21	23.80	0.136	Yes
Back Side	10mm	38000/2595	20M QPSK 1RB#0	0.428	0.186	-0.08	22.21	23.80	0.617	Yes
Left Side	10mm	38000/2595	20M QPSK 1RB#0	0.017	0.010	0.14	22.21	23.80	0.025	Yes
Top Side	10mm	38000/2595	20M QPSK 1RB#0	0.229	0.118	-0.04	22.21	23.80	0.330	Yes
Front Side	10mm	37850/2580	20M QPSK 50%RB#0	0.095	0.046	0.09	22.04	22.80	0.113	Yes
Back Side	10mm	37850/2580	20M QPSK 50%RB#0	0.339	0.148	-0.12	22.04	22.80	0.404	Yes
Left Side	10mm	37850/2580	20M QPSK 50%RB#0	0.017	0.010	-0.01	22.04	22.80	0.021	Yes
Top Side	10mm	37850/2580	20M QPSK 50%RB#0	0.238	0.123	-0.10	22.04	22.80	0.284	Yes
Back Side	10mm	38000/2595	20M QPSK 1RB#0	0.298	0.122	-0.15	22.21	23.80	0.430	Yes
<b>Main Antenna</b>										
Front Side	10mm	37850/2580	20M QPSK 1RB#50	0.220	0.110	0.14	23.03	24.50	0.309	Yes
Back Side	10mm	37850/2580	20M QPSK 1RB#50	0.276	0.134	-0.17	23.03	24.50	0.387	Yes
Left Side	10mm	37850/2580	20M QPSK 1RB#50	0.051	0.029	-0.14	23.03	24.50	0.072	Yes
Right Side	10mm	37850/2580	20M QPSK 1RB#50	0.068	0.036	0.01	23.03	24.50	0.095	Yes
Bottom Side	10mm	37850/2580	20M QPSK 1RB#50	0.507	0.262	-0.06	23.03	24.50	0.711	Yes
Front Side	10mm	37850/2580	20M QPSK 50%RB#25	0.222	0.110	0.14	22.88	23.50	0.256	Yes
Back Side	10mm	37850/2580	20M QPSK 50%RB#25	0.278	0.135	-0.07	22.88	23.50	0.321	Yes
Left Side	10mm	37850/2580	20M QPSK 50%RB#25	0.043	0.024	-0.06	22.88	23.50	0.049	Yes
Right Side	10mm	37850/2580	20M QPSK 50%RB#25	0.057	0.030	0.10	22.88	23.50	0.065	Yes
Bottom Side	10mm	37850/2580	20M QPSK 50%RB#25	0.541	0.280	-0.08	22.88	23.50	0.624	Yes
Bottom Side	10mm	37850/2580	20M QPSK 50%RB#25	0.535	0.275	-0.15	22.88	23.50	0.617	Yes

Table 150: Product Specific 10-g SAR test reduction evaluation of LTE Band 38

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

### 7.2.13 SAR measurement Results of LTE Band 41

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	40240/2555	20M QPSK 1RB#0	0.130	0.063	0.07	18.33	18.80	0.145	Battery 1#	/
Left tilt	40240/2555	20M QPSK 1RB#0	0.166	0.078	0.19	18.33	18.80	0.185	Battery 1#	/
Right cheek	40240/2555	20M QPSK 1RB#0	0.205	0.099	0.06	18.33	18.80	0.228	Battery 1#	/
Right tilt	40240/2555	20M QPSK 1RB#0	0.348	0.146	0.10	18.33	18.80	0.388	Battery 1#	/
Left cheek	40540/2585	20M QPSK 50%RB#0	0.145	0.069	0.09	18.21	18.80	0.166	Battery 1#	/
Left tilt	40540/2585	20M QPSK 50%RB#0	0.178	0.082	0.12	18.21	18.80	0.204	Battery 1#	/
Right cheek	40540/2585	20M QPSK 50%RB#0	0.232	0.110	0.04	18.21	18.80	0.266	Battery 1#	/
Right tilt	40540/2585	20M QPSK 50%RB#0	0.366	0.153	0.11	18.21	18.80	0.419	Battery 1#	/
Right tilt	40540/2585	20M QPSK 50%RB#0	0.370	0.154	0.14	18.21	18.80	0.424	Battery 2#	Yes
Main Antenna										
Left cheek	41140/2645	20M QPSK 1RB#50	0.068	0.035	0.18	23.96	24.50	0.077	Battery 1#	/
Left tilt	41140/2645	20M QPSK 1RB#50	0.047	0.023	0.19	23.96	24.50	0.053	Battery 1#	/
Right cheek	41140/2645	20M QPSK 1RB#50	0.104	0.054	0.08	23.96	24.50	0.118	Battery 1#	/
Right tilt	41140/2645	20M QPSK 1RB#50	0.034	0.016	0.03	23.96	24.50	0.039	Battery 1#	/
Left cheek	41140/2645	20M QPSK 50%RB#0	0.057	0.029	0.13	22.91	23.50	0.066	Battery 1#	/
Left tilt	41140/2645	20M QPSK 50%RB#0	0.040	0.019	0.17	22.91	23.50	0.045	Battery 1#	/
Right cheek	41140/2645	20M QPSK 50%RB#0	0.085	0.045	0.11	22.91	23.50	0.098	Battery 1#	/
Right tilt	41140/2645	20M QPSK 50%RB#0	0.027	0.013	0.15	22.91	23.50	0.031	Battery 1#	/
Right cheek	41140/2645	20M QPSK 1RB#50	0.105	0.055	0.04	23.96	24.50	0.119	Battery 2#	Yes

Table 151: Head SAR test results of LTE Band 41

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	40840/2615	20M QPSK 1RB#0	0.042	0.022	0.03	23.11	23.80	0.050	Battery 1#	/
Back Side	15mm	40840/2615	20M QPSK 1RB#0	0.172	0.081	-0.04	23.11	23.80	0.202	Battery 1#	Yes
Front Side	15mm	41140/2645	20M QPSK 50%RB#50	0.039	0.020	0.02	21.96	22.80	0.048	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 50%RB#50	0.162	0.079	-0.01	21.96	22.80	0.197	Battery 1#	/
Back Side	15mm	40840/2615	20M QPSK 1RB#0	0.169	0.082	-0.19	23.11	23.80	0.198	Battery 2#	/
Main Antenna											
Front Side	15mm	41140/2645	20M QPSK 1RB#50	0.135	0.071	-0.15	23.96	24.50	0.153	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#50	0.187	0.100	-0.15	23.96	24.50	0.212	Battery 1#	/
Front Side	15mm	41140/2645	20M QPSK 50%RB#0	0.115	0.061	-0.02	22.91	23.50	0.132	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 50%RB#0	0.152	0.079	0.10	22.91	23.50	0.174	Battery 1#	/
Back Side	15mm	41140/2645	20M QPSK 1RB#50	0.219	0.123	0.03	23.96	24.50	0.248	Battery 2#	Yes

Table 152: 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	40840/2615	20M QPSK 1RB#0	0.064	0.031	-0.15	21.42	21.80	0.070	Battery 1#	/
Back Side	10mm	40840/2615	20M QPSK 1RB#0	0.290	0.125	0.06	21.42	21.80	0.317	Battery 1#	Yes
Left Side	10mm	40840/2615	20M QPSK 1RB#0	0.016	0.009	-0.19	21.42	21.80	0.017	Battery 1#	/
Top Side	10mm	40840/2615	20M QPSK 1RB#0	0.192	0.094	0.14	21.42	21.80	0.210	Battery 1#	/
Front Side	10mm	40540/2585	20M QPSK 50%RB#0	0.070	0.034	-0.04	21.07	21.80	0.083	Battery 1#	/
Back Side	10mm	40540/2585	20M QPSK 50%RB#0	0.262	0.115	-0.05	21.07	21.80	0.310	Battery 1#	/
Left Side	10mm	40540/2585	20M QPSK 50%RB#0	0.014	0.008	-0.17	21.07	21.80	0.016	Battery 1#	/
Top Side	10mm	40540/2585	20M QPSK 50%RB#0	0.199	0.103	0.11	21.07	21.80	0.235	Battery 1#	/
Back Side	10mm	40840/2615	20M QPSK 1RB#0	0.265	0.116	0.04	21.42	21.80	0.289	Battery 2#	/
Main Antenna											
Front Side	10mm	41140/2645	20M QPSK 1RB#50	0.396	0.190	-0.07	23.96	24.50	0.448	Battery 1#	/
Back Side	10mm	41140/2645	20M QPSK 1RB#50	0.459	0.230	-0.04	23.96	24.50	0.520	Battery 1#	/
Left Side	10mm	41140/2645	20M QPSK 1RB#50	0.056	0.031	0.03	23.96	24.50	0.063	Battery 1#	/
Right Side	10mm	41140/2645	20M QPSK 1RB#50	0.073	0.038	-0.05	23.96	24.50	0.083	Battery 1#	/
Bottom Side	10mm	41140/2645	20M QPSK 1RB#50	0.652	0.317	0.04	23.96	24.50	0.738	Battery 1#	Yes
Bottom Side	10mm	40240/2555	20M QPSK 1RB#0	0.417	0.210	-0.01	23.94	24.50	0.474	Battery 1#	/
Bottom Side	10mm	40540/2585	20M QPSK 1RB#99	0.479	0.241	-0.02	23.71	24.50	0.575	Battery 1#	/
Bottom Side	10mm	40840/2615	20M QPSK 1RB#99	0.546	0.273	-0.02	23.71	24.50	0.655	Battery 1#	/
Front Side	10mm	41140/2645	20M QPSK 50%RB#0	0.325	0.278	-0.01	22.91	23.50	0.372	Battery 1#	/
Back Side	10mm	41140/2645	20M QPSK 50%RB#0	0.381	0.191	0.10	22.91	23.50	0.436	Battery 1#	/
Left Side	10mm	41140/2645	20M QPSK 50%RB#0	0.045	0.024	-0.18	22.91	23.50	0.052	Battery 1#	/
Right Side	10mm	41140/2645	20M QPSK 50%RB#0	0.072	0.037	-0.02	22.91	23.50	0.083	Battery 1#	/
Bottom Side	10mm	41140/2645	20M QPSK 50%RB#0	0.636	0.323	0.06	22.91	23.50	0.729	Battery 1#	/
Bottom Side	10mm	40240/2555	20M QPSK 50%RB#50	0.330	0.167	-0.01	22.88	23.50	0.381	Battery 1#	/
Bottom Side	10mm	40540/2585	20M QPSK 50%RB#0	0.380	0.191	-0.02	22.81	23.50	0.445	Battery 1#	/
Bottom Side	10mm	40840/2615	20M QPSK 50%RB#0	0.410	0.206	-0.01	22.80	23.50	0.482	Battery 1#	/
Bottom Side	10mm	41140/2645	20M QPSK 1RB#50	0.482	0.250	-0.03	23.96	24.50	0.546	Battery 2#	/
Bottom Side	10mm	41140/2645	20M QPSK 1RB#50	0.514	0.267	0.00	23.96	24.50	0.582	With Protect Cover	/

Table 153: Hotspot SAR test results of LTE Band 41

Per KDB648474D04, 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	40840/2615	20M QPSK 1RB#0	0.064	0.031	-0.15	21.42	23.80	0.110	Yes
Back Side	10mm	40840/2615	20M QPSK 1RB#0	0.290	0.125	0.06	21.42	23.80	0.502	Yes
Left Side	10mm	40840/2615	20M QPSK 1RB#0	0.016	0.009	-0.19	21.42	23.80	0.027	Yes
Top Side	10mm	40840/2615	20M QPSK 1RB#0	0.192	0.094	0.14	21.42	23.80	0.332	Yes
Front Side	10mm	40540/2585	20M QPSK 50%RB#0	0.070	0.034	-0.04	21.07	22.80	0.104	Yes
Back Side	10mm	40540/2585	20M QPSK 50%RB#0	0.262	0.115	-0.05	21.07	22.80	0.390	Yes
Left Side	10mm	40540/2585	20M QPSK 50%RB#0	0.014	0.008	-0.17	21.07	22.80	0.021	Yes
Top Side	10mm	40540/2585	20M QPSK 50%RB#0	0.199	0.103	0.11	21.07	22.80	0.296	Yes
Back Side	10mm	40840/2615	20M QPSK 1RB#0	0.265	0.116	0.04	21.42	23.80	0.458	Yes
Main Antenna										
Front Side	10mm	41140/2645	20M QPSK 1RB#50	0.396	0.190	-0.07	23.96	24.50	0.448	Yes
Back Side	10mm	41140/2645	20M QPSK 1RB#50	0.459	0.230	-0.04	23.96	24.50	0.520	Yes
Left Side	10mm	41140/2645	20M QPSK 1RB#50	0.056	0.031	0.03	23.96	24.50	0.063	Yes
Right Side	10mm	41140/2645	20M QPSK 1RB#50	0.073	0.038	-0.05	23.96	24.50	0.083	Yes
Bottom Side	10mm	41140/2645	20M QPSK 1RB#50	0.652	0.317	0.04	23.96	24.50	0.738	Yes
Bottom Side	10mm	40240/2555	20M QPSK 1RB#0	0.417	0.210	-0.01	23.94	24.50	0.474	Yes
Bottom Side	10mm	40540/2585	20M QPSK 1RB#99	0.479	0.241	-0.02	23.71	24.50	0.575	Yes
Bottom Side	10mm	40840/2615	20M QPSK 1RB#99	0.546	0.273	-0.02	23.71	24.50	0.655	Yes
Front Side	10mm	41140/2645	20M QPSK 50%RB#0	0.325	0.278	-0.01	22.91	23.50	0.372	Yes
Back Side	10mm	41140/2645	20M QPSK 50%RB#0	0.381	0.191	0.10	22.91	23.50	0.436	Yes
Left Side	10mm	41140/2645	20M QPSK 50%RB#0	0.045	0.024	-0.18	22.91	23.50	0.052	Yes
Right Side	10mm	41140/2645	20M QPSK 50%RB#0	0.072	0.037	-0.02	22.91	23.50	0.083	Yes
Bottom Side	10mm	41140/2645	20M QPSK 50%RB#0	0.636	0.323	0.06	22.91	23.50	0.729	Yes
Bottom Side	10mm	40240/2555	20M QPSK 50%RB#50	0.330	0.167	-0.01	22.88	23.50	0.381	Yes
Bottom Side	10mm	40540/2585	20M QPSK 50%RB#0	0.380	0.191	-0.02	22.81	23.50	0.445	Yes
Bottom Side	10mm	40840/2615	20M QPSK 50%RB#0	0.410	0.206	-0.01	22.80	23.50	0.482	Yes
Bottom Side	10mm	41140/2645	20M QPSK 1RB#50	0.482	0.250	-0.03	23.96	24.50	0.546	Yes
Bottom Side	10mm	41140/2645	20M QPSK 1RB#50	0.514	0.267	0.00	23.96	24.50	0.582	Yes

Table 154: 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 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								
Ant3(Core0) data in SISO Mode													
Left cheek	11/2462	802.11b	0.202	0.226	0.108	-0.06	99%	0.228	12.71	13.00	0.244	Battery 1#	/
Left tilt	11/2462	802.11b	0.325	0.391	0.155	0.11	99%	0.395	12.71	13.00	0.422	Battery 1#	/
Right cheek	11/2462	802.11b	0.088	0.101	0.049	0.19	99%	0.102	12.71	13.00	0.109	Battery 1#	/
Right tilt	11/2462	802.11b	0.100	0.116	0.053	-0.07	99%	0.117	12.71	13.00	0.125	Battery 1#	/
Left tilt	11/2462	802.11b	0.471	0.488	0.204	0.05	99%	0.493	12.71	13.00	0.527	Battery 2#	Yes
Test at the best acoustic position													
Left tilt	11/2462	802.11b	0.330	0.393	0.157	0.06	99%	0.397	12.71	13.00	0.424	Battery 2#	/
Ant4(Core1) data in SISO Mode													
Left cheek	6/2437	802.11b	<0.001	<0.001	<0.001	0.00	99%	/	12.65	13.00	/	Battery 1#	/
Left tilt	6/2437	802.11b	<0.001	<0.001	<0.001	0.00	99%	/	12.65	13.00	/	Battery 1#	/
Right cheek	6/2437	802.11b	0.011	0.009	0.004	0.14	99%	0.009	12.65	13.00	0.010	Battery 1#	/
Right tilt	6/2437	802.11b	0.005	/	/	0.01	99%	/	12.65	13.00	/	Battery 1#	/
Right cheek	6/2437	802.11b	0.016	0.012	0.005	0.14	99%	0.012	12.65	13.00	0.013	Battery 2#	/
Test at the best acoustic position													
Right cheek	6/2437	802.11b	0.013	0.010	0.004	0.01	99%	0.010	12.65	13.00	0.011	Battery 2#	/

Table 155: Head SAR test results of WiFi 2.4G SISO

Note: Per KDB248227D01, for Head 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.

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								
Ant3(Core0) data in MIMO Mode													
Left cheek	6/2437	802.11n(40M)	0.252	0.254	0.131	0.04	97%	0.262	12.56	13.00	0.290	Battery 1#	/
Left tilt	6/2437	802.11n(40M)	0.327	0.385	0.158	-0.07	97%	0.397	12.56	13.00	0.439	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.083	0.087	0.049	0.04	97%	0.090	12.56	13.00	0.100	Battery 1#	/
Right tilt	6/2437	802.11n(40M)	0.137	0.146	0.072	0.15	97%	0.151	12.56	13.00	0.167	Battery 1#	/
Left tilt	6/2437	802.11n(40M)	0.362	0.436	0.178	0.18	97%	0.449	12.56	13.00	0.497	Battery 2#	/
Test at the best acoustic position													
Left tilt	6/2437	802.11n(40M)	0.347	0.373	0.153	-0.07	97%	0.385	12.56	13.00	0.426	Battery 2#	/
Ant4(Core1) data in MIMO Mode													
Left cheek	6/2437	802.11n(40M)	0.001	0.002	0.000	0.17	97%	0.002	12.40	13.00	0.002	Battery 1#	/
Left tilt	6/2437	802.11n(40M)	0.001	0.001	0.000	0.14	97%	0.001	12.40	13.00	0.002	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.015	0.013	0.006	0.19	97%	0.014	12.40	13.00	0.016	Battery 1#	/
Right tilt	6/2437	802.11n(40M)	0.008	0.006	0.002	0.12	97%	0.007	12.40	13.00	0.007	Battery 1#	/
Right cheek	6/2437	802.11n(40M)	0.015	0.014	0.006	-0.13	97%	0.014	12.40	13.00	0.017	Battery 2#	Yes
Test at the best acoustic position													
Right cheek	6/2437	802.11n(40M)	0.012	0.010	0.004	0.00	97%	0.010	12.40	13.00	0.012	Battery 2#	/

Table 156: Head SAR test results of WiFi 2.4G MIMO

Note:

- 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.
- As different maximum tune-up output power is specified across the different channels range, WIFI 2.4G CDD/MIMO SAR test is performed on 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 3(Core 0)	Ant 4(Core 1)	CDD/MIMO (Ant 3(Core 0) + Ant 4(Core 1))
Left cheek	/	802.11n(40M)	0.290	0.002	0.292
Left tilt	/	802.11n(40M)	0.497	0.002	0.499
Right cheek	/	802.11n(40M)	0.100	0.017	0.117
Right tilt	/	802.11n(40M)	0.167	0.007	0.174

Table 157: 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								
Ant3(Core0) data in SISO Mode														
Front Side	15mm	11/2462	802.11b	0.071	0.071	0.040	-0.13	99%	0.071	17.63	18.00	0.078	Battery 1#	/
Back Side	15mm	11/2462	802.11b	0.064	0.064	0.037	-0.01	99%	0.064	17.63	18.00	0.070	Battery 1#	/
Front Side	15mm	11/2462	802.11b	0.073	0.075	0.043	-0.02	99%	0.076	17.63	18.00	0.083	Battery 2#	Yes
Ant4(Core1) data in SISO Mode														
Front Side	15mm	11/2462	802.11b	<0.001	<0.001	<0.001	0.02	99%	/	16.70	17.00	/	Battery 1#	/
Back Side	15mm	11/2462	802.11b	0.047	0.042	0.019	-0.15	99%	0.043	16.70	17.00	0.046	Battery 1#	/
Back Side	15mm	11/2462	802.11b	0.039	0.040	0.018	-0.14	99%	0.041	16.70	17.00	0.044	Battery 2#	/

Table 158: Body Worn SAR test results of WiFi 2.4G SISO

Note: 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 802.11g/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.

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								
Ant3(Core0) data in CDD Mode														
Front Side	15mm	9/2452	802.11g	0.055	0.056	0.032	-0.02	98%	0.057	17.42	18.00	0.065	Battery 1#	/
Back Side	15mm	9/2452	802.11g	0.050	0.050	0.029	-0.08	98%	0.051	17.42	18.00	0.058	Battery 1#	/
Front Side	15mm	9/2452	802.11g	0.052	0.053	0.030	-0.03	98%	0.054	17.42	18.00	0.062	Battery 2#	/
Ant4(Core1) data in CDD Mode														
Front Side	15mm	3/2422	802.11g	<0.001	<0.001	<0.001	0.03	98%	/	16.06	17.00	/	Battery 1#	/
Back Side	15mm	3/2422	802.11g	0.046	0.044	0.020	-0.13	98%	0.045	16.06	17.00	0.056	Battery 1#	Yes
Back Side	15mm	3/2422	802.11g	0.047	0.044	0.020	-0.05	98%	0.045	16.06	17.00	0.056	Battery 2#	/

Table 159: 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 11g SAR test is performed on 3CH/9CH 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 3(Core 0)	Ant 4(Core 1)	CDD/MIMO (Ant 3(Core 0)+ Ant 4(Core 1))
Front Side	15mm	802.11g	0.065	0.056	0.121
Back Side	15mm	802.11g	0.058	0.056	0.114

Table 160: Body Worn SAR test results of WiFi 2.4G CDD/MIMO 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								
Ant3(Core0) data in SISO Mode														
Front Side	10mm	11/2462	802.11b	0.119	0.119	0.066	-0.16	99%	0.120	17.63	18.00	0.131	Battery 1#	/
Back Side	10mm	11/2462	802.11b	0.145	0.132	0.068	-0.02	99%	0.133	17.63	18.00	0.145	Battery 1#	/
Right Side	10mm	11/2462	802.11b	0.138	0.140	0.055	0.02	99%	0.141	17.63	18.00	0.154	Battery 1#	/
Top Side	10mm	11/2462	802.11b	0.245	0.235	0.122	-0.02	99%	0.237	17.63	18.00	0.258	Battery 1#	/
Top Side	10mm	11/2462	802.11b	0.278	0.260	0.135	-0.02	99%	0.263	17.63	18.00	0.286	Battery 2#	Yes
Ant4(Core1) data in SISO Mode														
Front Side	10mm	11/2462	802.11b	0.006	0.006	0.002	-0.09	99%	0.006	16.70	17.00	0.007	Battery 1#	/
Back Side	10mm	11/2462	802.11b	0.112	0.121	0.050	-0.03	99%	0.122	16.70	17.00	0.131	Battery 1#	/
Left Side	10mm	11/2462	802.11b	0.051	0.051	0.023	0.14	99%	0.051	16.70	17.00	0.055	Battery 1#	/
Top Side	10mm	11/2462	802.11b	0.001	0.001	<0.001	0.04	99%	0.001	16.70	17.00	0.001	Battery 1#	/
Back Side	10mm	11/2462	802.11b	0.113	0.121	0.050	-0.03	99%	0.122	16.70	17.00	0.131	Battery 2#	Yes

Table 161: Hotspot SAR test results of WiFi 2.4G SISO

Note:

- 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.



Product Specific 10-g SAR	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								
Ant3(Core0) data in CDD Mode														
Front Side	0mm	9/2452	802.11g	0.604	1.420	0.581	0.18	98%	0.593	17.42	18.00	0.678	Battery 1#	/
Back Side	0mm	9/2452	802.11g	0.409	0.851	0.375	-0.09	98%	0.383	17.42	18.00	0.437	Battery 1#	/
Left Side	0mm	9/2452	802.11g	0.030	/	/	0.07	98%	/	17.42	18.00	/	Battery 1#	/
Right Side	0mm	9/2452	802.11g	0.182	0.823	0.240	-0.03	98%	0.245	17.42	18.00	0.280	Battery 1#	/
Top Side	0mm	9/2452	802.11g	0.650	1.820	0.617	0.14	98%	0.630	17.42	18.00	0.720	Battery 1#	/
Top Side	0mm	9/2452	802.11g	0.688	1.920	0.656	-0.05	98%	0.669	17.42	18.00	0.765	Battery 2#	Yes
Ant4(Core1) data in CDD Mode														
Front Side	0mm	3/2422	802.11g	0.017	0.034	0.014	0.00	98%	0.014	16.06	17.00	0.017	Battery 1#	/
Back Side	0mm	3/2422	802.11g	0.283	1.160	0.371	-0.07	98%	0.379	16.06	17.00	0.470	Battery 1#	Yes
Left Side	0mm	3/2422	802.11g	0.236	0.804	0.256	-0.16	98%	0.261	16.06	17.00	0.324	Battery 1#	/
Right Side	0mm	3/2422	802.11g	<0.001	/	/	0.00	98%	/	16.06	17.00	/	Battery 1#	/
Top Side	0mm	3/2422	802.11g	0.009	/	/	0.00	98%	/	16.06	17.00	/	Battery 1#	/
Back Side	0mm	3/2422	802.11g	0.288	1.150	0.370	0.00	98%	0.378	16.06	17.00	0.469	Battery 2#	/

Table 162: Product Specific 10-g SAR 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 3CH/9CH 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 3(Core 0)	Ant 4(Core 1)	CDD/MIMO(Ant 3(Core 0) + Ant 4(Core 1))
Front Side	0mm	802.11g	0.678	0.017	0.695
Back Side	0mm	802.11g	0.437	0.470	0.907
Left Side	0mm	802.11g	0.765	0.324	1.089
Right Side	0mm	802.11g	0.280	0.470	0.750
Top Side	0mm	802.11g	0.765	0.470	1.235

Table 163: Product Specific 10-g SAR of WiFi 2.4G CDD/MIMO calculation



### 7.2.15 SAR measurement Results of WiFi 5G

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								
Ant3(Core0) data in SISO Mode													
Test data of U-NII-1&U-NII-2A band													
Left cheek	54/5270	802.11n(40M)	0.219	0.221	0.062	0.02	97%	0.228	9.45	11.00	0.326	Battery 1#	/
Left tilt	54/5270	802.11n(40M)	0.262	0.281	0.084	0.12	97%	0.290	9.45	11.00	0.414	Battery 1#	/
Right cheek	54/5270	802.11n(40M)	0.072	0.065	0.022	-0.04	97%	0.067	9.45	11.00	0.096	Battery 1#	/
Right tilt	54/5270	802.11n(40M)	0.083	0.074	0.026	-0.19	97%	0.076	9.45	11.00	0.109	Battery 1#	/
Left tilt	54/5270	802.11n(40M)	0.264	0.291	0.084	-0.14	97%	0.300	9.45	11.00	0.429	Battery 2#	Yes
Test data of U-NII-2C band													
Left cheek	118/5590	802.11n(40M)	0.139	0.139	0.042	-0.19	97%	0.143	10.52	11.00	0.160	Battery 1#	/
Left tilt	118/5590	802.11n(40M)	0.248	0.243	0.069	-0.16	97%	0.251	10.52	11.00	0.280	Battery 1#	/
Right cheek	118/5590	802.11n(40M)	0.081	0.056	0.018	-0.17	97%	0.058	10.52	11.00	0.065	Battery 1#	/
Right tilt	118/5590	802.11n(40M)	0.105	0.087	0.029	-0.14	97%	0.089	10.52	11.00	0.100	Battery 1#	/
Left tilt	118/5590	802.11n(40M)	0.174	0.194	0.055	-0.15	97%	0.200	10.52	11.00	0.223	Battery 2#	/
Test data of U-NII-3 band													
Left cheek	155/5775	802.11ac(80M)	0.066	0.057	0.016	-0.14	95%	0.059	10.88	11.00	0.061	Battery 1#	/
Left tilt	155/5775	802.11ac(80M)	0.127	0.118	0.032	-0.08	95%	0.124	10.88	11.00	0.128	Battery 1#	/
Right cheek	155/5775	802.11ac(80M)	0.038	0.021	0.007	-0.12	95%	0.022	10.88	11.00	0.023	Battery 1#	/
Right tilt	155/5775	802.11ac(80M)	0.053	0.038	0.012	0.00	95%	0.040	10.88	11.00	0.041	Battery 1#	/
Left tilt	155/5775	802.11ac(80M)	0.149	0.132	0.035	0.00	95%	0.139	10.88	11.00	0.143	Battery 2#	/
Ant4(Core1) data in SISO SISO Mode													
Test data of U-NII-1&U-NII-2A band													
Left cheek	54/5270	802.11n(40M)	0.012	0.007	0.003	0.00	97%	0.007	10.34	11.00	0.008	Battery 1#	/
Left tilt	54/5270	802.11n(40M)	0.009	0.007	0.003	0.00	97%	0.007	10.34	11.00	0.009	Battery 1#	/
Right cheek	54/5270	802.11n(40M)	0.050	0.037	0.011	0.00	97%	0.038	10.34	11.00	0.044	Battery 1#	/
Right tilt	54/5270	802.11n(40M)	0.028	/	/	-0.17	97%	/	10.34	11.00	/	Battery 1#	/
Right cheek	54/5270	802.11n(40M)	0.039	0.040	0.014	-0.15	97%	0.041	10.34	11.00	0.048	Battery 2#	Yes
Test data of U-NII-2C band													
Left cheek	126/5630	802.11n(40M)	0.004	0.003	0.001	0.00	97%	0.003	10.61	11.00	0.003	Battery 1#	/
Left tilt	126/5630	802.11n(40M)	0.097	/	/	-0.07	97%	/	10.61	11.00	/	Battery 1#	/
Right cheek	126/5630	802.11n(40M)	0.016	0.009	0.004	0.00	97%	0.010	10.61	11.00	0.010	Battery 1#	/
Right tilt	126/5630	802.11n(40M)	0.010	0.006	0.002	0.00	97%	0.006	10.61	11.00	0.007	Battery 1#	/
Right cheek	126/5630	802.11n(40M)	0.015	0.011	0.000	-0.09	97%	0.011	10.61	11.00	0.012	Battery 2#	/
Test data of U-NII-3 band													
Left cheek	155/5775	802.11ac(80M)	0.000	/	/	0.00	95%	/	9.98	11.00	/	Battery 1#	/
Left tilt	155/5775	802.11ac(80M)	0.000	/	/	0.00	95%	/	9.98	11.00	/	Battery 1#	/
Right cheek	155/5775	802.11ac(80M)	0.007	0.012	0.005	0.00	95%	0.012	9.98	11.00	0.016	Battery 1#	/
Right tilt	155/5775	802.11ac(80M)	0.017	0.015	0.004	0.00	95%	0.015	9.98	11.00	0.019	Battery 1#	/
Right tilt	155/5775	802.11ac(80M)	0.013	0.014	0.003	0.00	95%	0.014	9.98	11.00	0.018	Battery 2#	/

Table 164: Head SAR test results of WiFi 5G SISO

Note:

- 1) Per KDB248227D01, for Head SAR test of WiFi 5G U-NII-2A, SAR is measured for 802.11n (40M) OFDM using the initial test position procedure. The highest reported SAR is adjusted by the ratio of other WiFi 5G modes to 802.11n (40M) 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 802.11n(40M) OFDM using the initial test position procedure. The highest reported SAR is adjusted by the ratio of 8 other WiFi 5G modes to 802.11n (40M)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-3, 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 3(Core 0)	Ant 4(Core 1)	MIMO(Ant 3(Core 0) +Ant 4(Core 1))
CDD/MIMO					
U-NII-2A band					
Left cheek	/	802.11n(40M)	0.326	0.008	0.334
Left tilt	/	802.11n(40M)	0.429	0.009	0.438
Right cheek	/	802.11n(40M)	0.096	0.048	0.144
Right tilt	/	802.11n(40M)	0.109	0.048	0.157
U-NII-2C band					
Left cheek	/	802.11n(40M)	0.160	0.003	0.163
Left tilt	/	802.11n(40M)	0.280	0.012	0.292
Right cheek	/	802.11n(40M)	0.065	0.012	0.077
Right tilt	/	802.11n(40M)	0.100	0.007	0.107
U-NII-3 band					
Left cheek	/	802.11ac(80M)	0.061	0.019	0.080
Left tilt	/	802.11ac(80M)	0.143	0.019	0.162
Right cheek	/	802.11ac(80M)	0.023	0.016	0.039
Right tilt	/	802.11ac(80M)	0.041	0.019	0.060

Table 165: Head SAR test results 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								
Ant3(Core0) data in SISO Mode														
Test data of U-NII-1&U-NII-2A band														
Front Side	15mm	60/5300	802.11a	0.032	0.022	0.008	0.14	99%	0.022	15.42	16.00	0.025	Battery 1#	/
Back Side	15mm	60/5300	802.11a	0.029	0.020	0.007	-0.15	99%	0.020	15.42	16.00	0.023	Battery 1#	/
Front Side	15mm	60/5300	802.11a	0.035	0.023	0.008	-0.18	99%	0.023	15.42	16.00	0.027	Battery 2#	/
Test data of U-NII-2C band														
Front Side	15mm	120/5600	802.11a	0.055	0.045	0.017	0.00	99%	0.045	15.80	16.00	0.047	Battery 1#	/
Back Side	15mm	120/5600	802.11a	0.052	0.046	0.016	0.06	99%	0.046	15.80	16.00	0.048	Battery 1#	Yes
Back Side	15mm	120/5600	802.11a	0.053	0.045	0.016	0.12	99%	0.046	15.80	16.00	0.048	Battery 2#	/
Test data of U-NII-3 band														
Front Side	15mm	157/5785	802.11a	0.029	0.025	0.010	-0.06	99%	0.025	15.51	16.00	0.028	Battery 1#	/
Back Side	15mm	157/5785	802.11a	0.047	0.037	0.016	0.10	99%	0.038	15.51	16.00	0.042	Battery 1#	/
Back Side	15mm	157/5785	802.11a	0.436	0.038	0.015	0.05	99%	0.038	15.51	16.00	0.043	Battery 2#	/
Ant4(Core1) data in Mode														
Test data of U-NII-1&U-NII-2A band														
Front Side	15mm	52/5260	802.11a	<0.001	<0.001	<0.001	0.00	99%	/	14.99	15.50	/	Battery 1#	/
Back Side	15mm	52/5260	802.11a	0.029	0.018	0.007	0.00	99%	0.018	14.99	15.50	0.020	Battery 1#	/
Back Side	15mm	52/5260	802.11a	0.026	0.018	0.007	0.16	99%	0.018	14.99	15.50	0.021	Battery 2#	/
Test data of U-NII-2C band														
Front Side	15mm	104/5520	802.11a	<0.001	<0.001	<0.001	0.00	99%	/	14.45	15.50	/	Battery 1#	/
Back Side	15mm	104/5520	802.11a	0.001	0.005	0.002	0.03	99%	0.006	14.45	15.50	0.007	Battery 1#	/
Back Side	15mm	104/5520	802.11a	0.002	0.005	0.002	-0.02	99%	0.006	14.45	15.50	0.007	Battery 2#	/
Test data of U-NII-3 band														
Front Side	15mm	157/5785	802.11a	0.000	/	/	0.00	99%	/	14.67	15.50	/	Battery 1#	/
Back Side	15mm	157/5785	802.11a	0.029	0.011	0.003	-0.05	99%	0.011	14.67	15.50	0.013	Battery 1#	/
Back Side	15mm	157/5785	802.11a	0.031	0.029	0.011	-0.13	99%	0.029	14.67	15.50	0.035	Battery 2#	Yes

Table 166: Body Worn 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 Body-Worn	Dist.	Test Mode	WiFi 5G CDD/MIMO 1-g SAR (W/kg)		
			Ant 3(Core 0)	Ant 4(Core 1)	CDD/MIMO(Ant 3(Core 0) +Ant 4(Core 1))
CDD/MIMO					
Test data of U-NII-2A band					
Front Side	15mm	802.11a	0.027	0.021	0.048
Back Side	15mm	802.11a	0.023	0.021	0.044
U-NII-2C band					
Front Side	15mm	802.11a	0.047	0.007	0.054
Back Side	15mm	802.11a	0.048	0.007	0.055
U-NII-3 band					
Front Side	15mm	802.11a	0.028	0.035	0.063
Back Side	15mm	802.11a	0.043	0.035	0.078

Table 167: Body Worn SAR test results of WiFi 5G CDD/MIMO

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								
Ant3(Core0) data in SISO Mode														
Test data of U-NII-1 band														
Front Side	10mm	48/5240	802.11a	0.060	0.047	0.015	0.10	99%	0.047	15.38	16.00	0.054	Battery 1#	/
Back Side	10mm	48/5240	802.11a	0.046	0.036	0.012	0.03	99%	0.037	15.38	16.00	0.042	Battery 1#	/
Left Side	10mm	48/5240	802.11a	0.002	0.002	<0.001	0.00	99%	0.002	15.38	16.00	0.002	Battery 1#	/
Right Side	10mm	48/5240	802.11a	0.032	0.032	0.010	0.03	99%	0.033	15.38	16.00	0.038	Battery 1#	/
Top Side	10mm	48/5240	802.11a	0.057	0.048	0.016	-0.05	99%	0.048	15.38	16.00	0.056	Battery 1#	/
Top Side	10mm	48/5240	802.11a	0.054	0.043	0.016	-0.14	99%	0.043	15.38	16.00	0.050	Battery 2#	/
Test data of U-NII-3 band														
Front Side	10mm	157/5785	802.11a	0.061	0.048	0.018	0.11	99%	0.049	15.51	16.00	0.055	Battery 1#	/
Back Side	10mm	157/5785	802.11a	0.073	0.063	0.023	-0.06	99%	0.064	15.51	16.00	0.072	Battery 1#	/
Left Side	10mm	157/5785	802.11a	0.023	0.017	0.007	0.00	99%	0.017	15.51	16.00	0.019	Battery 1#	/
Right Side	10mm	157/5785	802.11a	0.034	0.026	0.011	0.03	99%	0.026	15.51	16.00	0.029	Battery 1#	/
Top Side	10mm	157/5785	802.11a	0.148	0.151	0.054	-0.06	99%	0.153	15.51	16.00	0.171	Battery 1#	Yes
Top Side	10mm	157/5785	802.11a	0.148	0.147	0.053	-0.02	99%	0.148	15.51	16.00	0.166	Battery 2#	/
Ant4(Core1) data in SISO Mode														
Test data of U-NII-1 band														
Front Side	10mm	48/5240	802.11a	0.002	0.002	<0.001	0.00	99%	0.002	14.98	15.50	0.002	Battery 1#	/
Back Side	10mm	48/5240	802.11a	0.054	0.046	0.015	0.00	99%	0.046	14.98	15.50	0.052	Battery 1#	/
Left Side	10mm	48/5240	802.11a	0.056	0.039	0.014	-0.06	99%	0.040	14.98	15.50	0.045	Battery 1#	/
Right Side	10mm	48/5240	802.11a	0.000	0.000	0.000	0.00	99%	0.000	14.98	15.50	0.000	Battery 1#	/
Top Side	10mm	48/5240	802.11a	0.005	0.005	<0.001	0.06	99%	0.005	14.98	15.50	0.006	Battery 1#	/
Back Side	10mm	48/5240	802.11a	0.060	0.049	0.016	0.00	99%	0.049	14.98	15.50	0.055	Battery 2#	Yes
Test data of U-NII-3 band														
Front Side	10mm	157/5785	802.11a	<0.001	<0.001	<0.001	0.00	99%	/	14.67	15.50	/	Battery 1#	/
Back Side	10mm	157/5785	802.11a	0.034	0.037	0.013	0.18	99%	0.037	14.67	15.50	0.045	Battery 1#	/
Left Side	10mm	157/5785	802.11a	0.023	0.023	0.007	0.00	99%	0.024	14.67	15.50	0.029	Battery 1#	/
Right Side	10mm	157/5785	802.11a	<0.001	<0.001	<0.001	0.00	99%	/	14.67	15.50	/	Battery 1#	/
Top Side	10mm	157/5785	802.11a	<0.001	<0.001	<0.001	0.00	99%	/	14.67	15.50	/	Battery 1#	/
Back Side	10mm	157/5785	802.11a	0.043	0.035	0.012	-0.17	99%	0.035	14.67	15.50	0.042	Battery 2#	/

Table 168: 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 3(Core 0)	Ant 4(Core 1)	CDD/MIMO(Ant 3(Core 0) +Ant 4(Core 1))
CDD/MIMO					
U-NII-1 band					
Front Side	10mm	802.11a	0.054	0.055	0.109
Back Side	10mm	802.11a	0.042	0.055	0.097
Left Side	10mm	802.11a	0.002	0.055	0.057
Right Side	10mm	802.11a	0.038	0.055	0.093
Top Side	10mm	802.11a	0.056	0.055	0.111
U-NII-3 band					
Front Side	10mm	802.11a	0.055	0.045	0.100
Back Side	10mm	802.11a	0.072	0.045	0.117
Left Side	10mm	802.11a	0.019	0.045	0.064
Right Side	10mm	802.11a	0.029	0.045	0.074
Top Side	10mm	802.11a	0.171	0.045	0.216

Table 169: Hotspot SAR test results of WiFi 5G CDD/MIMO

Product Specific 10-g SAR	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								
Ant3(Core0) data in SISO Mode														
Test data of U-NII-2A band														
Front Side	0mm	60/5300	802.11a	0.263	/	/	0.00	99%	/	15.42	16.00	/	Battery 1#	/
Back Side	0mm	60/5300	802.11a	0.128	/	/	0.18	99%	/	15.42	16.00	/	Battery 1#	/
Left Side	0mm	60/5300	802.11a	0.013	/	/	0.00	99%	/	15.42	16.00	/	Battery 1#	/
Right Side	0mm	60/5300	802.11a	0.069	/	/	0.03	99%	/	15.42	16.00	/	Battery 1#	/
Top Side	0mm	60/5300	802.11a	0.662	3.340	0.767	-0.10	99%	0.775	15.42	16.00	0.885	Battery 1#	/
Top Side	0mm	60/5300	802.11a	0.663	3.370	0.772	-0.04	99%	0.780	15.42	16.00	0.891	Battery 2#	/
Test data of U-NII-2C band														
Front Side	0mm	120/5600	802.11a	0.434	1.421	0.456	0.01	99%	0.461	15.80	16.00	0.482	Battery 1#	/
Back Side	0mm	120/5600	802.11a	0.181	/	/	-0.05	99%	/	15.80	16.00	/	Battery 1#	/
Left Side	0mm	120/5600	802.11a	0.041	/	/	0.00	99%	/	15.80	16.00	/	Battery 1#	/
Right Side	0mm	120/5600	802.11a	0.166	/	/	-0.10	99%	/	15.80	16.00	/	Battery 1#	/
Top Side	0mm	120/5600	802.11a	1.070	5.770	1.290	-0.15	99%	1.303	15.80	16.00	1.364	Battery 1#	/
Top Side	0mm	120/5600	802.11a	1.120	6.190	1.360	-0.15	99%	1.374	15.80	16.00	1.438	Battery 2#	Yes
Ant4(Core1) data in SISO Mode														
Test data of U-NII-2A band														
Front Side	0mm	52/5260	802.11a	0.039	/	/	0.00	99%	/	14.99	15.50	/	Battery 1#	/
Back Side	0mm	52/5260	802.11a	0.265	1.170	0.279	0.12	99%	0.282	14.99	15.50	0.317	Battery 1#	/
Left Side	0mm	52/5260	802.11a	0.150	0.607	0.164	-0.09	99%	0.166	14.99	15.50	0.186	Battery 1#	/
Right Side	0mm	52/5260	802.11a	<0.001	/	/	0.00	99%	/	14.99	15.50	/	Battery 1#	/
Top Side	0mm	52/5260	802.11a	0.029	/	/	-0.02	99%	/	14.99	15.50	/	Battery 1#	/
Back Side	0mm	52/5260	802.11a	0.242	1.160	0.280	0.18	99%	0.283	14.99	15.50	0.318	Battery 2#	Yes
Test data of U-NII-2C band														
Front Side	0mm	104/5520	802.11a	0.007	/	/	0.00	99%	/	14.45	15.50	/	Battery 1#	/
Back Side	0mm	104/5520	802.11a	0.177	0.825	0.180	0.14	99%	0.182	14.45	15.50	0.232	Battery 1#	/
Left Side	0mm	104/5520	802.11a	0.059	/	/	0.16	99%	/	14.45	15.50	/	Battery 1#	/
Right Side	0mm	104/5520	802.11a	<0.001	/	/	0.00	99%	/	14.45	15.50	/	Battery 1#	/
Top Side	0mm	104/5520	802.11a	<0.001	/	/	0.00	99%	/	14.45	15.50	/	Battery 1#	/
Back Side	0mm	104/5520	802.11a	0.161	0.748	0.166	-0.07	99%	0.168	14.45	15.50	0.214	Battery 2#	/

Table 170: 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 3(Core 0)	Ant 4(Core 1)	CDD/MIMO(Ant 3(Core 0) +Ant 4(Core 1))
CDD/MIMO					
Test data of U-NII-2A band					
Front Side	0mm	802.11a	0.891	0.318	1.209
Back Side	0mm	802.11a	0.891	0.318	1.209
Left Side	0mm	802.11a	0.891	0.186	1.077
Right Side	0mm	802.11a	0.891	0.318	1.209
Top Side	0mm	802.11a	0.891	0.318	1.209
Test data of U-NII-2C band					
Front Side	0mm	802.11a	1.438	0.232	1.67
Back Side	0mm	802.11a	1.438	0.232	1.67
Left Side	0mm	802.11a	1.438	0.232	1.67
Right Side	0mm	802.11a	1.438	0.232	1.67
Top Side	0mm	802.11a	1.438	0.232	1.67

Table 171: Product Specific 10-g SAR test results of WiFi 5G CDD/MIMO



### 7.2.16 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								
Left cheek	40/2442	DH5	0.110	0.048	0.10	77%	0.143	9.68	11.00	0.194	Battery 1#	/
Left tilt	40/2442	DH5	0.138	0.055	-0.16	77%	0.179	9.68	11.00	0.243	Battery 1#	Yes
Right cheek	40/2442	DH5	0.038	0.020	-0.14	77%	0.050	9.68	11.00	0.068	Battery 1#	/
Right tilt	40/2442	DH5	0.048	0.024	0.11	77%	0.062	9.68	11.00	0.085	Battery 1#	/
Left tilt	40/2442	DH5	0.112	0.049	-0.04	77%	0.145	9.68	11.00	0.197	Battery 2#	/

Table 172: Head SAR test results of BT(Power level B)

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								
Front Side	15mm	12/2414	DH5	0.032	0.018	-0.11	77%	0.041	17.36	18.30	0.051	Battery 1#	/
Back Side	15mm	12/2414	DH5	0.034	0.019	-0.03	77%	0.044	17.36	18.30	0.055	Battery 1#	Yes
Back Side	15mm	12/2414	DH5	0.024	0.014	-0.09	77%	0.031	17.36	18.30	0.038	Battery 2#	/

Table 173: Body Worn SAR test results of BT(High power level A)

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								
Front Side	10mm	12/2414	DH5	0.056	0.031	-0.09	77%	0.073	17.36	18.30	0.091	Battery 1#	/
Back Side	10mm	12/2414	DH5	0.068	0.035	-0.19	77%	0.088	17.36	18.30	0.109	Battery 1#	/
Right Side	10mm	12/2414	DH5	0.049	0.021	0.05	77%	0.063	17.36	18.30	0.078	Battery 1#	/
Top Side	10mm	12/2414	DH5	0.099	0.055	0.04	77%	0.129	17.36	18.30	0.160	Battery 1#	Yes
Top Side	10mm	12/2414	DH5	0.079	0.043	-0.10	77%	0.103	17.36	18.30	0.128	Battery 2#	/

Table 174: Hotspot SAR test results of BT(High power level A)

Note: Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg

### 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.

Mode	Exposure Condition	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
Main Ant (Ant 1)	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Second Ant (Ant 2)	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
WiFi 2.4G/5G Core 0/BT Ant (Ant 3)	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
WiFi 2.4G/5G Core 1 Ant (Ant 4)	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 175: Sides for Hotspot/Product specific 10g SAR 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(Ant1) + BT	Yes	Yes	N/A	Yes
2	GSM DATA(Ant 1) + BT	N/A	Yes	Yes	Yes
3	GSM Voice(Ant 2) + BT	Yes	Yes	N/A	Yes
4	GSM DATA (Ant 2)+ BT	N/A	Yes	Yes	Yes
5	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi- Fi 2.4G MIMO	Yes	Yes	N/A	Yes
6	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	N/A	Yes	Yes	Yes
7	GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	Yes	Yes	N/A	Yes
8	GSM DATA (Ant 2)+ Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	N/A	Yes	Yes	Yes
9	UMTS (Ant 1) + BT	Yes	Yes	Yes	Yes
10	UMTS (Ant 1) + BT	Yes	Yes	Yes	Yes
11	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
12	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
13	LTE (Ant 1) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
14	LTE(Ant 1) + BT	Yes	Yes	Yes	Yes
15	LTE (Ant 2) + Wi-Fi 2.4G (Ant 3)/ Wi-Fi 2.4G (Ant 4)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
16	LTE (Ant 2) + BT	Yes	Yes	Yes	Yes
17	GSM Voice(Ant 1) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	Yes	Yes	N/A	Yes
18	GSM DATA(Ant 1) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi- Fi 5G MIMO	N/A	Yes	Yes	Yes
19	GSM Voice(Ant 2) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	Yes	Yes	N/A	Yes
20	GSM DATA(Ant 2) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	N/A	Yes	Yes	Yes
21	UMTS (Ant 1) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
22	UMTS (Ant 2) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
23	LTE (Ant 1 ) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
24	LTE (Ant 2) + Wi-Fi 5G (Ant 3)/ Wi-Fi 5G (Ant 4)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes

25	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	Yes	Yes	N/A	Yes
26	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	N/A	Yes	Yes	Yes
27	GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	Yes	Yes	N/A	Yes
28	GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	N/A	Yes	Yes	Yes
29	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	Yes	Yes	Yes	Yes
30	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	Yes	Yes	Yes	Yes
31	LTE (Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	Yes	Yes	Yes	Yes
32	LTE (Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)	Yes	Yes	Yes	Yes
33	GSM Voice(Ant 1) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	Yes	Yes	N/A	Yes
34	GSM DATA(Ant 1) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	N/A	Yes	Yes	Yes
35	GSM Voice(Ant 2) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	Yes	Yes	N/A	Yes
36	GSM DATA (Ant 2)+ BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	N/A	Yes	Yes	Yes
37	UMTS (Ant 1) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	Yes	Yes	Yes	Yes
38	UMTS (Ant 2) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	Yes	Yes	Yes	Yes
39	LTE (Ant 1) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	Yes	Yes	Yes	Yes
40	LTE (Ant 2) + BT+ Wi-Fi 5G (Ant3/ Ant4/ MIMO)	Yes	Yes	Yes	Yes
41	GSM Voice(Ant 1) + BT+ Wi-Fi 2.4G (Ant4)	Yes	Yes	N/A	Yes
42	GSM DATA(Ant 1) + BT+ Wi-Fi 2.4G (Ant4)	N/A	Yes	Yes	Yes
43	GSM Voice(Ant 2) + BT+ Wi-Fi 2.4G (Ant4)	Yes	Yes	N/A	Yes
44	GSM DATA (Ant 2)+ BT+ Wi-Fi 2.4G (Ant4)	N/A	Yes	Yes	Yes
45	UMTS (Ant 1) + BT+ Wi-Fi 2.4G (Ant4)	Yes	Yes	Yes	Yes
46	UMTS (Ant 2) + BT+Wi-Fi 2.4G (Ant4)	Yes	Yes	Yes	Yes
47	LTE (Ant 1) + BT+ Wi-Fi 2.4G (Ant4)	Yes	Yes	Yes	Yes
48	LTE (Ant 2) + BT+ Wi-Fi 2.4G (Ant4)	Yes	Yes	Yes	Yes
49	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+ BT	Yes	Yes	N/A	Yes
50	GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+BT	N/A	Yes	Yes	Yes
51	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+ BT	Yes	Yes	N/A	Yes
52	GSM Voice (Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+BT	N/A	Yes	Yes	Yes
53	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+BT	Yes	Yes	Yes	Yes
54	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+BT	Yes	Yes	Yes	Yes
55	LTE (Ant 1) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+BT	Yes	Yes	Yes	Yes

56	LTE (Ant 2) + Wi-Fi 2.4G (Ant 4) + Wi-Fi 5G (Ant 3)+BT	Yes	Yes	Yes	Yes
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Table 176: Simultaneous Transmission Possibilities with BT Power Level B

Note:

- 1) Wi-Fi 2.4G Ant.4(Core1) can transmit simultaneously with Bluetooth and Wi-Fi 2.4G Ant.3(Core0) can't transmit simultaneously with Bluetooth.
- 2) Wi-Fi 5G Ant.3(Core0) can transmit simultaneously with Bluetooth and Ant.4(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 Ant.4(Core1) station mode and Wi-Fi 5G Ant.3(Core0) P-to-P mode or Wi-Fi 2.4G Ant.4(Core1) P-to-P mode and Wi-Fi 5G Ant.3(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) and Second Antenna (Ant2) 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) When 2.4G hotspot +BT off ,it works on Ant.3(Core0). When 2.4G hotspot +BT on, 2.4G hotspot works on Ant.4(Core1) and BT works on Ant.3(Core0).
- 12) WIFI 2.4G hotspot does not support CDD/MIMO mode.
- 13) Ant 3=WiFi Core 0/ BT; Ant 4 = 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 1) + BT	N/A	Yes	N/A	Yes
2	GSM DATA(Ant 1) + BT	N/A	Yes	Yes	Yes
3	GSM Voice(Ant 2) + BT	N/A	Yes	N/A	Yes
4	GSM DATA (Ant 2)+ BT	N/A	Yes	Yes	Yes
5	UMTS (Ant 1) + BT	N/A	Yes	Yes	Yes
6	UMTS (Ant 2) + BT	N/A	Yes	Yes	Yes
7	LTE(Ant 1) + BT	N/A	Yes	Yes	Yes
8	LTE (Ant 2) + BT	N/A	Yes	Yes	Yes
9	GSM Voice(Ant 1) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	N/A	Yes
10	GSM DATA(Ant 1) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	Yes	Yes
11	GSM Voice(Ant 2) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	N/A	Yes
12	GSM DATA (Ant 2)+ BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	Yes	Yes
13	UMTS (Ant 1) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	Yes	Yes
14	UMTS (Ant 2) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	Yes	Yes
15	LTE (Ant 1) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	Yes	Yes
16	LTE (Ant 2) + BT+ Wi-Fi 2.4G ( Ant4)	N/A	Yes	Yes	Yes
17	GSM Voice(Ant 1) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	N/A	Yes
18	GSM DATA(Ant 1) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	Yes	Yes
19	GSM Voice(Ant 2) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	N/A	Yes
20	GSM DATA (Ant 2)+ BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	Yes	Yes
21	UMTS (Ant 1) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	Yes	Yes
22	UMTS (Ant 2) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	Yes	Yes
23	LTE (Ant 1) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	Yes	Yes
24	LTE (Ant 2) + BT+ Wi-Fi 5G ( Ant4)	N/A	Yes	Yes	Yes

Table 177: Simultaneous Transmission Possibilities with BT Power Level A

- 1) When BT is in high power level A, BT and Wi-Fi 5G Ant.3(Core0)/WIFI 5G MIMO cannot transmit simultaneously because BT occupies Wifi 5G Ant.3(Core0) '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) Ant 3=WiFi Core 0/ BT; Ant 4 = WiFi Core 1.

### 7.3.2 SAR Summation Scenario

Test Position		Second Antenna														Second antenna MaxSAR
		GSM 850	GSM 1900	UMTS B2	UMTS B4	UMTS B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B17	LTE B26	LTE B38	LTE B41	1
Head	Left cheek	0.129	0.363	0.316	0.219	0.394	0.317	0.242	0.406	0.152	0.067	/	0.417	0.110	0.166	0.417
	Left tilt	0.082	0.516	0.440	0.136	0.416	0.437	0.374	0.467	0.192	0.065	/	0.451	0.145	0.204	0.516
	Right cheek	0.464	0.293	0.440	0.306	0.425	0.247	0.295	0.379	0.305	0.081	/	0.412	0.188	0.266	0.464
	Right tilt	0.450	0.549	0.639	0.504	0.440	0.532	0.468	0.476	0.407	0.112	/	0.485	0.448	0.424	0.639
Body Worn	Front side	0.081	0.068	0.145	0.103	0.283	0.120	0.098	0.295	0.061	0.036	/	0.310	0.050	0.050	0.310
	Back side	0.085	0.080	0.136	0.115	0.339	0.145	0.128	0.287	0.184	0.034	/	0.330	0.182	0.202	0.339
Hotspot	Front side	0.530	0.136	0.324	0.102	0.592	0.165	0.105	0.614	0.103	0.072	/	0.652	0.113	0.083	0.652
	Back side	0.697	0.145	0.282	0.100	0.651	0.180	0.099	0.642	0.377	0.079	/	0.589	0.490	0.317	0.697
	Left side	0.263	0.039	0.051	0.031	0.270	0.044	0.038	0.269	0.025	0.029	/	0.287	0.021	0.017	0.287
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	0.375	0.402	0.409	0.233	0.474	0.414	0.251	0.477	0.345	0.063	/	0.438	0.284	0.235	0.477
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Product Specific 10-g	Front side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Back side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 178: Second antenna Max SAR



Test Position		Main antenna														Main antenna MaxSAR
		GSM 850	GSM 1900	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 17	LTE Band 26	LTE Band 38	LTE Band 41	1
Head	Left cheek	0.171	0.105	0.244	0.397	0.106	0.250	0.216	0.171	0.105	0.122	/	0.122	0.065	0.077	0.397
	Left tilt	0.084	0.051	0.117	0.141	0.084	0.107	0.133	0.110	0.045	0.068	/	0.072	0.056	0.053	0.141
	Right cheek	0.238	0.075	0.226	0.250	0.202	0.151	0.224	0.210	0.164	0.105	/	0.159	0.111	0.119	0.250
	Right tilt	0.073	0.053	0.145	0.148	0.079	0.115	0.148	0.083	0.037	0.057	/	0.070	0.023	0.039	0.148
Body Worn	Front side	0.269	0.147	0.228	0.300	0.296	0.296	0.231	0.317	0.228	0.209	/	0.294	0.142	0.153	0.317
	Back side	0.390	0.159	0.278	0.358	0.403	0.307	0.313	0.438	0.264	0.257	/	0.367	0.201	0.248	0.438
Hotspot	Front side	0.507	0.344	0.302	0.402	0.412	0.326	0.359	0.362	0.194	0.288	/	0.416	0.256	0.448	0.507
	Back side	0.637	0.379	0.269	0.358	0.594	0.404	0.358	0.573	0.234	0.325	/	0.516	0.321	0.520	0.637
	Left side	0.484	0.081	0.080	0.094	0.382	0.094	0.086	0.504	0.061	0.302	/	0.340	0.057	0.063	0.504
	Right side	0.264	0.132	0.116	0.183	0.199	0.133	0.170	0.243	0.068	0.145	/	0.160	0.076	0.083	0.264
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom side	0.456	0.678	0.535	0.594	0.350	0.614	0.515	0.408	0.488	0.159	/	0.391	0.624	0.738	0.738
Product Specific 10-g	Front side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Back side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Left side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Right side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Top side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 179: Main antenna Max SAR

Test Position		Second antenna MaxSAR	WiFi 2.4G Ant3 (Core0)	WiFi 2.4G Ant4 (Core1)	WiFi 2.4G MIMO	WiFi 5G Ant3 (Core0)	WiFi 5G Ant4 (Core1)	WiFi 5G MIMO	BT Power Level B	Simultaneously Transmission SAR						
										1	2	3	4	5	6	7
Head	Left cheek	0.417	0.422	0.013	0.292	0.326	0.008	0.334	0.175	0.592	0.839	0.751	0.756	0.926	0.605	0.931
	Left tilt	0.516	0.527	0.013	0.499	0.429	0.009	0.438	0.231	0.747	1.043	0.954	0.958	1.185	0.760	<b>1.189</b>
	Right cheek	0.464	0.109	0.013	0.117	0.096	0.048	0.144	0.065	0.529	0.581	0.608	0.573	0.673	0.542	0.638
	Right tilt	0.639	0.125	0.013	0.174	0.109	0.019	0.157	0.068	0.707	0.813	0.796	0.761	0.864	0.720	0.829
Body Worn	Front side	0.310	0.083	0.046	0.121	0.047	0.035	0.063	0.051	0.361	0.431	0.373	0.403	0.424	0.407	0.454
	Back side	0.339	0.070	0.046	0.114	0.048	0.035	0.078	0.055	0.394	0.453	0.417	0.433	0.472	0.440	0.488
Hotspot	Front side	0.652	0.131	0.007	/	0.055	0.002	0.109	0.091	0.743	0.783	0.761	0.714	0.852	0.750	0.805
	Back side	0.697	0.145	0.131	/	0.072	0.055	0.117	0.109	0.806	0.842	0.814	0.900	0.923	0.937	1.009
	Left side	0.287	/	0.055	/	0.019	0.045	0.064	/	0.287	0.342	0.351	0.361	0.351	0.342	0.361
	Right side	0.000	0.154	/	/	0.038	0.055	0.093	0.078	0.078	0.154	0.093	0.038	0.171	0.078	0.116
	Top side	0.477	0.286	0.001	/	0.171	0.055	0.216	0.160	0.637	0.763	0.693	0.649	0.853	0.638	0.809
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Product Specific 10-g	Front side	/	/	/	0.695	1.438	0.318	1.670	/	/	0.695	1.670	1.438	1.670	/	1.438
	Back side	/	/	/	0.907	1.438	0.318	1.670	/	/	0.907	1.670	1.438	1.670	/	1.438
	Left side	/	/	/	1.089	1.438	0.318	1.670	/	/	1.089	1.670	1.438	1.670	/	1.438
	Right side	/	/	/	0.750	1.438	0.318	1.670	/	/	0.750	1.670	1.438	1.670	/	1.438
	Top side	/	/	/	1.235	1.438	0.318	1.670	/	/	1.235	1.670	1.438	1.670	/	1.438
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 180: SAR Simultaneous Tx Combination of Second antenna with WiFi/BT Scenario (BT: Power level B)

Test Position		Main antenna MaxSAR	WiFi 2.4G Ant3 (Core0)	WiFi 2.4G Ant4 (Core1)	WiFi 2.4G MIMO	WiFi 5G Ant3 (Core0)	WiFi 5G Ant4 (Core1)	WiFi 5G MIMO	BT Power Level B	Simultaneously Transmission SAR						
										1	2	3	4	5	6	7
Head	Left cheek	0.397	0.422	0.013	0.292	0.326	0.008	0.334	0.175	0.572	0.819	0.731	0.736	0.906	0.585	0.911
	Left tilt	0.141	0.527	0.013	0.499	0.429	0.009	0.438	0.231	0.372	0.668	0.579	0.583	0.810	0.385	0.814
	Right cheek	0.250	0.109	0.013	0.117	0.096	0.048	0.144	0.065	0.315	0.367	0.394	0.359	0.459	0.328	0.424
	Right tilt	0.148	0.125	0.013	0.174	0.109	0.019	0.157	0.068	0.216	0.322	0.305	0.270	0.373	0.229	0.338
Body Worn	Front side	0.317	0.083	0.046	0.121	0.047	0.035	0.063	0.051	0.368	0.438	0.380	0.410	0.431	0.414	0.461
	Back side	0.438	0.070	0.046	0.114	0.048	0.035	0.078	0.055	0.493	0.552	0.516	0.532	0.571	0.539	0.587
Hotspot	Front side	0.507	0.131	0.007	/	0.055	0.002	0.109	0.091	0.598	0.638	0.616	0.569	0.707	0.605	0.660
	Back side	0.637	0.145	0.131	/	0.072	0.055	0.117	0.109	0.746	0.782	0.754	0.840	0.863	0.877	0.949
	Left side	0.504	/	0.055	/	0.019	0.045	0.064	/	0.504	0.559	0.568	0.578	0.568	0.559	0.578
	Right side	0.264	0.154	/	/	0.038	0.055	0.093	0.078	0.342	0.418	0.357	0.302	0.435	0.342	0.380
	Top side	0.000	0.286	0.001	/	0.171	0.055	0.216	0.160	0.160	0.286	0.216	0.172	0.376	0.161	0.332
	Bottom side	0.738	/	/	/	/	/	/	/	0.738	0.738	0.738	0.738	0.738	0.738	0.738
Product Specific 10-g	Front side	/	/	/	0.695	1.438	0.318	1.670	/	/	0.695	1.670	1.438	1.670	/	1.438
	Back side	/	/	/	0.907	1.438	0.318	1.670	/	/	0.907	1.670	1.438	1.670	/	1.438
	Left side	/	/	/	1.089	1.438	0.318	1.670	/	/	1.089	1.670	1.438	1.670	/	1.438
	Right side	/	/	/	0.750	1.438	0.318	1.670	/	/	0.750	1.670	1.438	1.670	/	1.438
	Top side	/	/	/	1.235	1.438	0.318	1.670	/	/	1.235	1.670	1.438	1.670	/	1.438
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Table 181: SAR Simultaneous Tx Combination of Main antenna with WiFi/BT Scenario (BT: Power level B)

Test Position		Second antenna MaxSAR	WiFi 2.4G Ant3 (Core0)	WiFi 2.4G Ant4 (Core1)	WiFi 2.4G MIMO	WiFi 5G Ant3 (Core0)	WiFi 5G Ant4 (Core1)	WiFi 5G MIMO	BT Power Level A	Simultaneously Transmission SAR		
		1	2	3	4	5	6	7	8	1+8	1+3+8	1+6+8
Head	Left cheek	0.417	0.422	0.013	0.292	0.326	0.008	0.334	/	/	/	/
	Left tilt	0.516	0.527	0.013	0.499	0.429	0.009	0.438	/	/	/	/
	Right cheek	0.464	0.109	0.013	0.117	0.096	0.048	0.144	/	/	/	/
	Right tilt	0.639	0.125	0.013	0.174	0.109	0.019	0.157	/	/	/	/
Body Worn	Front side	0.310	0.083	0.046	0.121	0.047	0.035	0.063	0.051	0.361	0.407	0.396
	Back side	0.339	0.070	0.046	0.114	0.048	0.035	0.078	0.055	0.394	0.440	0.429
Hotspot	Front side	0.652	0.131	0.007	/	0.055	0.002	0.109	0.091	0.743	0.750	0.745
	Back side	0.697	0.145	0.131	/	0.072	0.055	0.117	0.109	0.806	0.937	0.861
	Left side	0.287	/	0.055	/	0.019	0.045	0.064	/	0.287	0.342	0.332
	Right side	/	0.154	/	/	0.038	0.055	0.093	0.078	0.078	0.078	0.133
	Top side	0.477	0.286	0.001	/	0.171	0.055	0.216	0.160	0.637	0.638	0.692
	Bottom side	/	/	/	/	/	/	/	/	/	/	/
Product Specific 10-g	Front side	/	/	/	0.695	1.438	0.318	1.670	/	/	/	0.318
	Back side	/	/	/	0.907	1.438	0.318	1.670	/	/	/	0.318
	Left side	/	/	/	1.089	1.438	0.318	1.670	/	/	/	0.318
	Right side	/	/	/	0.750	1.438	0.318	1.670	/	/	/	0.318
	Top side	/	/	/	1.235	1.438	0.318	1.670	/	/	/	0.318
	Bottom side	/	/	/	/	/	/	/	/	/	/	/

Table 182: SAR Simultaneous Tx Combination of Second antenna with WiFi/BT Scenario (BT: Power level A)

Test Position		Main antenna MaxSAR	WiFi 2.4G Ant3 (Core0)	WiFi 2.4G Ant4 (Core1)	WiFi 2.4G MIMO	WiFi 5G Ant3 (Core0)	WiFi 5G Ant4 (Core1)	WiFi 5G MIMO	BT Power Level A	Simultaneously Transmission SAR		
		1	2	3	4	5	6	7	8	1+8	1+3+8	1+6+8
Head	Left cheek	0.397	0.422	0.013	0.292	0.326	0.008	0.334	/	/	/	/
	Left tilt	0.141	0.527	0.013	0.499	0.429	0.009	0.438	/	/	/	/
	Right cheek	0.250	0.109	0.013	0.117	0.096	0.048	0.144	/	/	/	/
	Right tilt	0.148	0.125	0.013	0.174	0.109	0.019	0.157	/	/	/	/
Body Worn	Front side	0.317	0.083	0.046	0.121	0.047	0.035	0.063	0.051	0.368	0.414	0.403
	Back side	0.438	0.070	0.046	0.114	0.048	0.035	0.078	0.055	0.493	0.539	0.528
Hotspot	Front side	0.507	0.131	0.007	/	0.055	0.002	0.109	0.091	0.598	0.605	0.600
	Back side	0.637	0.145	0.131	/	0.072	0.055	0.117	0.109	0.746	0.877	0.801
	Left side	0.504	/	0.055	/	0.019	0.045	0.064	/	0.504	0.559	0.549
	Right side	0.264	0.154	/	/	0.038	0.055	0.093	0.078	0.342	0.342	0.397
	Top side	/	0.286	0.001	/	0.171	0.055	0.216	0.160	0.160	0.161	0.215
	Bottom side	0.738	/	/	/	/	/	/	/	0.738	0.738	0.738
Product Specific 10-g	Front side	/	/	/	0.695	1.438	0.318	1.670	/	/	/	0.318
	Back side	/	/	/	0.907	1.438	0.318	1.670	/	/	/	0.318
	Left side	/	/	/	1.089	1.438	0.318	1.670	/	/	/	0.318
	Right side	/	/	/	0.750	1.438	0.318	1.670	/	/	/	0.318
	Top side	/	/	/	1.235	1.438	0.318	1.670	/	/	/	0.318
	Bottom side	/	/	/	/	/	/	/	/	/	/	/

Table 183: SAR Simultaneous Tx Combination of Main antenna with WiFi/BT Scenario (BT: Power level A)

The device also supports Tx wireless charging function. When the device is working on Tx wireless charging mode, other Tx antennas(2G/3G/4G/WIFI/BT) can still work. So this simultaneous transmission should also be considered.

Per KDB 447498D01, the following test exclusion conditions should be satisfied for all combinations of simultaneous transmission configurations:

The  $[\Sigma \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance)} / 1.6 \text{ W/kg}] + [\Sigma \text{ of MPE ratios}] \leq 1.0$ .

Similarly For Product Specific 10-g SAR, the test exclusion conditions should be:

The  $[\Sigma \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance)} / 4.0 \text{ W/kg}] + [\Sigma \text{ of MPE ratios}] \leq 1.0$ .

The RF exposure ratios for all combinations of simultaneous transmission configurations are calculated as below:

exposure condition	MAX Simultaneous Transmission SAR (W/kg)	SAR Limit (W/kg)	Max E-field (V/m)	MPE Limit (V/m)	RF exposure ratio ( $\leq 1.0$ )	Conclusion
Head	1.189	1.60	1.27	614	0.745	PASS
Body-worn	0.587	1.60	1.27	614	0.369	PASS
Hotspot	1.009	1.60	1.27	614	0.633	PASS
Product Specific 10-g SAR	1.670	4.00	1.27	614	0.420	PASS

Table 184: Simultaneous transmission RF exposure ratios for SAR & MPE(E-Field)

exposure condition	MAX Simultaneous Transmission SAR (W/kg)	SAR Limit (W/kg)	Max H-field (A/m)	MPE Limit (A/m)	RF exposure ratio ( $\leq 1.0$ )	Conclusion
Head	1.189	1.60	0.043	1.630	0.769	PASS
Body-worn	0.587	1.60	0.043	1.630	0.393	PASS
Hotspot	1.009	1.60	0.043	1.630	0.657	PASS
Product Specific 10-g SAR	1.670	4.00	0.043	1.630	0.444	PASS

Table 185: Simultaneous transmission RF exposure ratios for SAR & MPE(H-Field)

Note: Please refer to the Partial RF exposure test report of Wireless Charging for detailed E-field and H-field results.

### 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.



**Appendix A. System Check Plots**

(Please See Appendix No.: SYBH (Z-SAR)20190115011002-2A, total: 37 pages)

**Appendix B. SAR Measurement Plots**

(Please See Appendix No.: SYBH (Z-SAR)20190115011002-2B, total: 99 pages)

**Appendix C. Calibration Certificate**

(Please See Appendix No.: SYBH (Z-SAR)20190115011002-2C, total: 178 pages)

**Appendix D. Photo documentation**

(Please See Appendix No.: SYBH (Z-SAR)20190115011002-2D, total: 10 pages)

**Appendix E. Antenna Location**

(Please See Appendix No.: SYBH (Z-SAR)20190115011002-2E, total: 2 page)

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**End**