INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wet Dry Vacuum with Bluetooth 5.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 21.6V by rechargeable battery and charged by DC 27V through adapter. For more detail information pls. refer to the user manual.

Antenna Type: Monopole antenna

Modulation Type: GFSK Antenna Gain: 2dBi

Bluetooth Version: 5.0 BLE (Single Mode)

The nominal conducted output power specified: 3.02 dBm (±2dB)

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01:

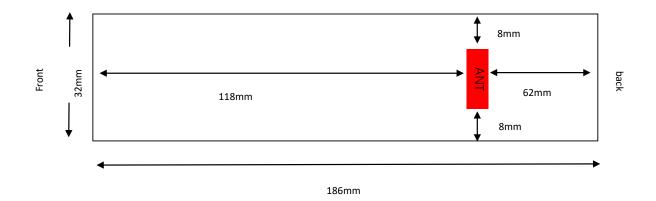
The maximum conducted output power for the EUT is 5.02dBm in the frequency 2.440GHz which is within the production variation.

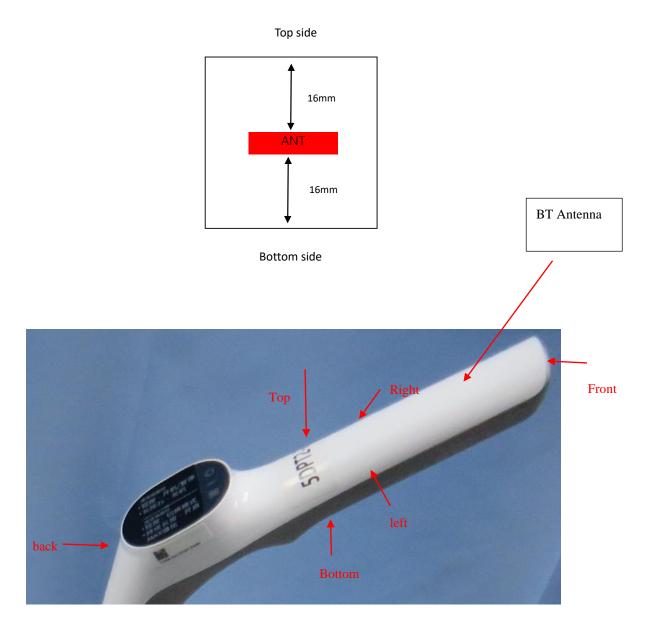
The minimum conducted output power for the EUT is 4.78dBm in the frequency 2.480GHz which is within the production variation.

The maximum conducted output power specified is 5.02 dBm= 3.177mW

The maximum ERP specified is 5.02dBm - 2.15dB + 2dBi = 4.87dBm = 3.07mW

Please see next page.





Distance to the host shell:

Distance from BT ANT to Front Side: 118mm
Distance from BT ANT to back Side: 62mm
Distance from BT ANT to Top Side: 16mm
Distance from BT ANT to Bottom Side: 16mm
Distance from BT ANT to Left Side: 8mm

Mode	Location	Distance from	Max. tune-up	Exemption with Max.	SAR Test
		ANT (mm)	Power (mW)	Allowed Power (1g,mW)	
BLE	Front Side	118mm	3.07mW	1124	N/A
	Back Side	62mm		331	N/A
	Top Side	16mm		25	N/A
	Bottom Side	16mm		25	N/A
	Left Side	8mm		6.8	N/A
	Right Side	8mm		6.8	N/A

Since max. conducted output power and effective radiated power (ERP) is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.