

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Interface with Bluetooth 5.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3.7V (1 x 3.7V rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: -0.58dBi.

The normal radiated output power (e.i.r.p) is: -11.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -10.42dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 84.4dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -10.83dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 81.5dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -13.73dBm
which is within the production variation.

The maximum conducted output power specified is -7.42dBm= 0.181mW

The source- based time-averaging conducted output power
=0.181mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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