

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a 1/41 Bluetooth FXX-K EVO with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.2V (1 x 3.2V rechargeable battery). And it can't be running when charging. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0dBi Max

Bluetooth Version: 5.0 (BLE mode)

The normal radiated output power (e.i.r.p) is: -18.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -18.0dBm (tolerance: +/- 3dB).

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 78.3dBμV/m at 3m in the frequency 2440MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -16.93dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 76.9dBμV/m at 3m in the frequency 2480MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -18.33dBm
which is within the production variation.

The maximum conducted output power specified is -15.0dBm= 0.032mW

The source- based time-averaging conducted output power
=0.032* Duty cycle mW <0.032 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 * 5 / \text{sqrt} (2.480)$ 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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