INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a Remote control which has Bluetooth function. The EUT is powered by DC3.0V(1.5V AAA size*2) battery. For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.0 BLE Antenna Type: Integral antenna.

Antenna Gain: 0 dBi. Modulation Type: GFSK

The nominal conducted output power specified: 2dBm (+/-5dB)

The nominal radiated output power (e.i.r.p) specified: 2dBm (+/- 5dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $101.6dB\mu V/m$ at 3m in the frequency 2402MHz

The EIRP = $[(FS*D) ^2 / 30] \text{ mW} = 6.37 \text{dBm}$ which is within the production variation.

The minimum peak radiated emission for the EUT is $98.1 dB\mu V/m$ at 3m in the frequency 2480 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 2.87dBm which is within the production variation.

The maximun conducted output power specified is 7 dBm = 5.012 mW The source- based time-averaging conducted output power

- = 5.012 * Duty factor mW (where Duty Factor≤1)
- = 5.012 mW

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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