

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Remote Control with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.0V(2\*1.5V AAA batteries), For more detail information pls. refer to the user manual.

Bluetooth Version: 5.0 BLE (Single Mode)

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: -3.6dBi Max

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

The nominal radiated output power(e.i.r.p) specified: 1.4dBm (+/-2dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 98.2 dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 2.97dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 96.4 dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 1.17dBm  
which is within the production variation.

The maximum conducted output power specified is 7dBm = 5.0mW

The source- based time-averaging conducted output power

= 5.0 \* Duty factor mW (where Duty Factor  $\leq$  1)

= 5.0 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.