## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Wireless Receiver with 2.4GHz wireless transmitter function operating in 2402-2480MHz. The EUT is powered by DC 5V. For more detail information pls. refer to the user manual.

## 2.4GHz wireless transmitter function:

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain: 0dBi Max

The nominal conducted output power specified: -8dBm (+/-3dB)
The nominal radiated output power (e.i.r.p) specified: -8dBm (+/-3dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is 88.7dBµV/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -6.53dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $84.9B\mu V/m$  at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -10.33dBm which is within the production variation.

The maximun conducted output power specified is -5dBm = 0.316 mW

The source- based time-averaging conducted output power

- = 0.316 \* Duty factor mW (where Duty Factor≤1)
- = 0.316 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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