

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a wireless Receiver with 2.4G function operating in 2408-2474MHz. The EUT is powered by DC 5.0V by Computer. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 2.0dBi Max

The nominal conducted output power specified: -19 dBm ( $\pm 2.0$ dB)

The nominal radiated output power (e.i.r.p) specified: -17.0 dBm ( $\pm 2.0$ dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 77.5dB $\mu$ V/m at 3m in the frequency 2408MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -17.73 dBm

which is within the production variation.

The minimum peak radiated emission for the EUT is 77.3dB $\mu$ V/m at 3m in the frequency 2440MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -17.93dBm

which is within the production variation.

The maximum conducted output power specified is -17.0 dBm = 0.020 mW

The source- based time-averaging conducted output power

= 0.020 \* Duty factor mW (where Duty Factor  $\leq 1$ )

= 0.020 mW

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (2.474) 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.