

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a 2.4G Wireless Keyboard operating at 2.4G Band. The EUT can be powered by DC 1.5V (1 x 1.5V AAA battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 1.8dBi Max

The nominal conducted output power specified: -13.8 dBm ( $\pm 3$ dB)

The nominal radiated output power (e.i.r.p) specified: -12.0 dBm ( $\pm 3$ dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 82.7dB $\mu$ V/m at 3m in the frequency 2402.65MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -12.53 dBm

which is within the production variation.

The minimum peak radiated emission for the EUT is 81.9dB $\mu$ V/m at 3m in the frequency 2441.65MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -13.33dBm

which is within the production variation.

The maximum conducted output power specified is -10.8 dBm = 0.083 mW

The source- based time-averaging conducted output power

= 0.083 \* Duty factor mW (where Duty Factor  $\leq 1$ )

= 0.083 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.