

## RF Exposure

The equipment under test (EUT) is a wireless mouse with 2.4G transmitter function operating in 2405-2474MHz. The EUT is powered by DC 3 V by 2x AAA battery. For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Antenna Type: Integral antenna.

Antenna Gain: 4dBi Max

The nominal conducted output power specified: -10.0dBm ( $\pm 3$ dB).

The nominal radiated output power (e.i.r.p) specified: -6.0dBm ( $\pm 3$ dB).

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 91.3dB $\mu$ V/m at 3m in the frequency 2474MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -3.93dBm

which is within the production variation.

The minimum peak radiated emission for the EUT is 87.1dB $\mu$ V/m at 3m in the frequency 2442MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -8.13dBm

which is within the production variation.

The maximum conducted output power specified is -7.0dBm = 0.2mW

The source-based time-averaging conducted output power

= 0.2 \* Duty factor mW (where Duty Factor  $\leq 1$ )

= 0.2 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.