

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: 1dBm (+/-2dB)

The nominal radiated output power (e.i.r.p) specified: 1dBm (+/-2dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 96.2dB μ V/m at 3m in the frequency 2440MHz

The EIRP = $[(FS * D)^2 / 30]$ mW = 0.97dBm

which is within the production variation.

The minimum peak radiated emission for the EUT is 95.6B μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS * D)^2 / 30]$ mW = 0.37dBm

which is within the production variation.

The maximum conducted output power specified is 3 dBm = 1.995 mW

The source- based time-averaging conducted output power

= 1.995 * Duty factor mW (where Duty Factor \leq 1)

= 1.995 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.