

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a USB Dongle unit for the PS3 OPP WIRELESS CONTROLLER model: 1427441-01 operating at 2.4GHz band. It is powered by DC 5.0V (PS3 USB port). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: 2.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 2.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 97.4dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 2.17dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 96.1dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 0.87dBm

which is within the production variation.

The maximum conducted output power specified is 5dBm = 3.2mW

The source- based time-averaging conducted output power

= $3.2 \cdot \text{Duty cycle}$ mW < 3.2 mW (Duty cycle < 100%)

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 \cdot 5 / \sqrt{2.480}$ 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 10.2536ms

Effective period of the cycle = 217.4 μ s = 0.2174ms

DC = 0.2174ms / 10.2536ms = 0.0212 or 2.12%

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