

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a controller unit for the PS3 OPP WIRELESS CONTROLLER model: 1427441-01 operating at 2.4GHz band. It is powered by DC 4.5V (3 x 1.5V AAA batteries). 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: 4.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 4.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 100.1dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 4.87dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 99.0dB $\mu$ V/m at 3m in the frequency 2441MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 3.77dBm  
which is within the production variation.

The maximum conducted output power specified is 7dBm = 5.0mW

The source- based time-averaging conducted output power  
= 5.0 \* Duty cycle mW <5.0 mW (Duty cycle <100%)

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.

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

The duration of one cycle = 10.2609ms

Effective period of the cycle = 358.6 $\mu$ s x 2 = 0.7172ms

DC = 0.7172ms / 10.2609ms = 0.0699 or 6.99%

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