

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a PS4 Fusion Wireless Controller with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery or DC 5V by USB port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8-DPSK

Antenna Gain: 2dBi Max

Bluetooth Version: 3.0

The normal radiated output power (e.i.r.p) is: 2.5dBm (tolerance: +/- 3dB).

The normal conducted output power is: 0.5 dBm (tolerance: +/- 3dB).

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 100.7dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 5.47dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 99.5dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 4.27dBm  
which is within the production variation.

The maximum conducted output power specified is 5.5dBm=3.548mW

The source- based time-averaging conducted output power  
=3.548\* Duty cycle mW <3.548 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.