

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Modern Wireless Controller for Atari VCS with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V (1 x 3.7V rechargeable battery). Once a USB cable is inserted into the micro USB port, the Bluetooth function will be closed. 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: 2.1 + EDR

The normal radiated output power (e.i.r.p) is: 0.0dBm (tolerance: +/- 3dB).

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

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 95.6 dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = 0.37dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 92.6 dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -2.63dBm  
which is within the production variation.

The maximum conducted output power specified is 1.0dBm= 1.26mW

The source- based time-averaging conducted output power  
=1.26\* Duty cycle mW =1.26 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.

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