

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Toy RC Gravity Rover operating at 2.4G Band. The EUT can be powered by DC 3.7V (1 x 3.7V rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. 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: -11.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -11.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 83.3dB $\mu$ V/m at 3m in the frequency 2415MHz

The EIRP =  $[(FS^*D)^2 / 30] \text{ mW} = -11.93\text{dBm}$   
which is within the production variation.

The Minimum peak radiated emission for the EUT is 81.4dB $\mu$ V/m at 3m in the frequency 2444MHz

The EIRP =  $[(FS^*D)^2 / 30] \text{ mW} = -13.83\text{dBm}$   
which is within the production variation.

The maximum conducted output power specified is -8dBm= 0.158mW

The source- based time-averaging conducted output power  
=0.158mW

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)}$   
=  $3.0 * 5 / \text{sqrt}(2.469) \text{ mW}$   
= 9.55 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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