## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a RC Car operating at 2.4G Band. The EUT can be powered by DC 4.5V (3 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The normal radiated output power (e.i.r.p) is: 5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 3.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $102.4 dB\mu V/m$  at 3m in the frequency 2432 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 7.17dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $101.8dB\mu V/m$  at 3m in the frequency 2463MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 6.57dBm which is within the production variation.

The maximum conducted output power specified is 8.0dBm= 6.310mW
The source- based time-averaging conducted output power
=6.310mW

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 \* 5 / sqrt (2.463) mW

 $= 9.56 \, \text{mW}$ 

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.

FCC ID: 2ARXWSINOVAN11