## INTERTEK TESTING SERVICES

## **RF Exposure**

The Equipment under Test (EUT) is a controller unit for the BATTERY OPERATED RIDE-ON model: 82700 operating at 2.4GHz band. It is powered by DC 9.0V (1 x 9.0V 6F22 battery). 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: -4dBm (tolerance: +/- 3dB).

The normal conducted output power is: -4dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $92.3 dB\mu V/m$  at 3m in the frequency 2405 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW =-2.93dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $89.7 dB\mu V/m$  at 3m in the frequency 2437 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -5.53dBm which is within the production variation.

The maximum conducted output power specified is -1dBm = 0.79mW The source- based time-averaging conducted output power = 0.79\* Duty Cycle mW <0.79mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.470) mW
- = 9.54 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 duration of one cycle = 4.0870ms Effective period of the cycle = 304.3us = 0.3043ms DC = 0.304.3ms/4.0870ms = 0.0745 or 7.45%

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