## INTERTEK TESTING SERVICES

## **RF Exposure**

The Equipment under Test (EUT) is a control unit for the DRONE DX 10INCH WITH CAMERA STREAMING model: DX-5 operating at 2.4GHz band. It is powered by DC 9.0V (6 x 1.5V AA batteries). 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: 2.0dBm (tolerance: +/- 3dB).

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

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 98.3dBµV/m at 3m in the frequency 2475MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 3.07dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $96.8dB\mu V/m$  at 3m in the frequency 2405MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 1.57dBm which is within the production variation.

The maximum conducted output power specified is 5dBm = 3.2mW The source- based time-averaging conducted output power = 3.2\* Duty cycle mW <3.2 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.475) 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 2.0870ms

Effective period of the cycle = 608.7us= 0.6087ms

DC = 0.6087 ms / 2.0870 ms = 0.2917 or 29.17%

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