

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a control unit for the DRONE DX 14.4inch With Camera 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 94.0dBμV/m at 3m in the frequency 2406MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -1.23dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 92.2dBμV/m at 3m in the frequency 2475MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -3.03dBm

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

=  $1.26 \cdot \text{Duty cycle}$  mW < 1.26 mW (Duty cycle < 100%)

The SAR Exclusion Threshold Level:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \cdot 5 / \sqrt{(2.475)}$  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 = 7.0725 ms

Effective period of the cycle = 376.8 μs = 0.3768ms

DC = 0.3768ms / 7.0725 ms = 0.0533 or 5.33 %

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