

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Drone Mach 10inch With Camera Streaming operating at 2.4G Band. The EUT can be 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: -3.0dBm (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 92.5dBμV/m at 3m in the frequency 2475MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -2.73dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.7dBμV/m at 3m in the frequency 2416MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -4.53dBm  
which is within the production variation.

The maximum conducted output power specified is 0dBm= 1.000mW

The source- based time-averaging conducted output power  
=  $1.000 \cdot \text{Duty cycle}$  mW < 1.000 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 = 7.5072ms

Effective period of the cycle = 0.2174ms

DC =  $0.2174\text{ms} / 7.5072\text{ms}$  = 0.0290 or 2.90%