

## INTERTEK TESTING SERVICES

---

### RF Exposure

The Equipment under Test (EUT) is a control unit for the 2.4G 4.5CH DRONE 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: 3.0dBm (tolerance: +/- 3.0dB).

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

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 99.4dBμV/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 4.17dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 98.4dBμV/m at 3m in the frequency 2475MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 3.17dBm

which is within the production variation.

The maximum radiated output power specified is 6.0dBm = 4.0mW

The source- based time-averaging conducted output power

= 4.0\* Duty cycle mW <4.0 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

= 9.5 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 = 2.1014ms

Effective period of the cycle = 173.9μs=0.1739ms

DC = 0.1739ms / 2.1014ms = 0.0828 or 8.28 %

---

FCC ID: Z3CWECCANRCDRONE