

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for DRONE MACH 10INCH WITH CAMERA model: MVID 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: -10.0dBm (tolerance: +/- 3dB).

The normal conducted output power is: -10.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 84.4dBμV/m at 3m in the frequency 2407MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -10.83dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 83.9dBμV/m at 3m in the frequency 2442MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -11.33dBm
which is within the production variation.

The maximum conducted output power specified is -7.0dBm = 0.2mW

The source- based time-averaging conducted output power
= $0.2 \cdot \text{Duty Cycle}$ mW < 0.2mW (Duty Cycle < 100%)

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \sqrt{2.477}$ mW

= 9.53mW

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 = 12.6812ms

Effective period of the cycle = 1.5942ms

DC = 1.5942ms / 12.6812ms = 0.1257 or 12.57%

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