

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a Control unit for Remote Control Helicopters & Drones Series model: K300C operating at 2.4GHz band. It is powered by four 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: -13.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -13.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 83.1 dBμV/m at 3m in the frequency 2442MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -11.3dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 79.7dBμV/m at 3m in the frequency 2470MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -15.53dBm

which is within the production variation.

The maximum conducted output power specified is -10dBm = 0.1mW

The source- based time-averaging conducted output power

=  $0.1 \cdot \text{Duty Cycle}$  mW < 0.1mW (Duty Cycle < 100%)

The SAR Exclusion Threshold Level:

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

=  $3.0 \cdot 5 / \text{sqrt}(2.470)$  mW

= 9.1 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.