INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for Drone Patrol model: YW858100 operating at 2.4GHz band. It is powered by DC 4.5V (3 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: 6.0dBm (tolerance: +/- 3dB).

The normal conducted output power is: 6.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $103.4dB\mu V/m$ at 3m in the frequency 2472MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 8.17dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is 100.2dBµV/m at 3m in the frequency 2440MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 4.97dBm which is within the production variation.

The maximum conducted output power specified is 9dBm = 7.9mW The source- based time-averaging conducted output power = 7.9* Duty Cycle mW < 7.9mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.472) mW
- = 9.54 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 duration of one cycle = 100 ms

Effective period of the cycle = 0.7536ms x 13=9.7968ms

DC = 9.7968ms / 100ms = 0.097968or 9.8%

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