INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a controller unit for the DRONE ADVANCED WITH CAMERA STREAMING AND GPS model: GPS2017 operating at 2.4GHz band. It is powered by DC 6.0V (4 x 1.5V AA batteries). For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: 5dBm (tolerance: +/- 3dB).

The normal conducted output power is: 5dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $102.6dB\mu V/m$ at 3m in the frequency 2410MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW =7.37dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $97.8dB\mu V/m$ at 3m in the frequency 2475MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 2.57dBm which is within the production variation.

The maximum conducted output power specified is 8dBm = 6.3mW The source- based time-averaging conducted output power = 6.3* Duty Cycle mW <6.3mW (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
- = 9.53 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 duration of one cycle = 5.9420ms Effective period of the cycle = 507.2us = 0.5072ms DC = 0.5072ms/5.9420ms = 0.0854 or 8.54%

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