INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for Exploiter S 40cm 3 Ch Helo Assortment operating at 2.4GHz band. It is powered by DC 4.5V. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Antenna Gain: 0dBi Modulation Type: GFSK

The normal radiated output power (e.i.r.p) is: -2.0dBm (tolerance: +/- 3dB)

The normal conducted output power is -2.0dBm (tolerance: +/- 3dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $94.0dB\mu V/m$ at 3m in the frequency 2405MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -1.23dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $92.0dB\mu V/m$ at 3m in the frequency 2478MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -3.23dBm which is within the production variation.

The maximum conducted output power specified is 1.0dBm = 1.3mW The source- based time-averaging conducted output power = 1.3 * Duty Cycle mW < 1.3 mW (Duty Cycle < 100%)

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.478) 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.

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The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 1.9565ms

Effective period of the cycle = 1.4493ms x 1 = 1.4493ms

DC = 1.4493ms / 1.9565ms = 0.7408 or 74.08%

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