INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Cyklone Monster operating at 2.4G Band. The EUT can be powered by DC 6.0V (4 x1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal peak radiated output power (e.i.r.p) is: -9.0dBm (tolerance: +/- 3dB).

The normal peak conducted output power is -9.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $86.4~dB\mu V/m$ at 3m in the frequency 2408MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -8.83dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $84.6 dB\mu V/m$ at 3m in the frequency 2440 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -10.63dBm which is within the production variation.

The maximum conducted output power specified is -6dBm= 0.251mW The source- based time-averaging conducted output power =0.251* Duty cycle mW <0.251 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.472) 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 duty cycle is simply the on-time divided by the period:

The duration of one cycle = 20.2174ms

Effective period of the cycle = 1.0145ms

DC =1.0145ms / 20.2174ms =0.0502 or 5.02%

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