INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a R/C Car operating at 2.4G Band. The EUT can be powered by DC 9.6V (1 x 9.6V rechargeable battery). 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: -20.0dBm (tolerance: +/- 3dB). The normal conducted output power is -20.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 76.9dB μ V/m at 3m in the frequency 2402MHz The EIRP = [(FS*D) ^2 / 30] mW = -18.33dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is 73.2dB μ V/m at 3m in the frequency 2440MHz The EIRP = [(FS*D) ^2 / 30] mW = -22.03dBm which is within the production variation.

The maximum conducted output power specified is -17dBm= 0.020mW The source- based time-averaging conducted output power =0.020* Duty cycle mW <0.020 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.480) 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 duty cycle is simply the on-time divided by the period:

The duration of one cycle = 14.9275ms Effective period of the cycle = 2.6087ms DC =2.6087ms / 14.9275ms =0.1748 or 17.48%