INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a portable transmitter for a Maisto TECH R/C vehicles - RC Coyote XS operating at 27.145 MHz which is controlled by a crystal. The EUT is powered by two 1.5V AA size batteries. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Antenna Gain: 0dBi

The nominal conducted output power specified: -22.00dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -24.15dBm (+/- 3dB)

Modulation Type: Pulse modulation

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 72.8dBµV/m at 3m in the frequency 27.145MHz The EIRP = [(FS*D) ^2 / 30] mW= -22.43dBm The ERP = EIRP - 2.15 = -24.58 dBm which is within the production variation.

The maximun conducted output power specified is -19.00dBm = 0.01mW The source- based time-averaging conducted output power = 0.01 * Duty Cycle mW= 0.000542 mW < 0.1 mW

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm: = 474 * [1 + log(100/f(MHz)]/2 = 371.2 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 = 69.80ms Effective period of the cycle= 120μ s x 14 + 200μ s x 8 + 500μ s x 1 = 3.78ms DC = 3.78ms / 69.80ms = 0.0542 or 5.42%