Analysis Report

The Equipment Under Test (EUT), is a portable 2.4GHz Portable Controller for a RC jet toy set. The operation frequency range is between 2405MHz and 2475MHz with 1 MHz channel spacing following 71 channels used.

The EUT is powered by 2 x 1.5V AAA batteries.

After switching on the EUT, the jet will be moved forward or backward and turned left or right based on the switches pressed in the controller.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

Antenna Type: Internal antenna Antenna Gain: 0dBi Nominal rated field strength is 97.9 dBµV/m at 3m Maximum allowed production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 100.9dB μ V/m at 3m in frequency 2.465GHz, thus;

The EIRP = $[(FS*D)^{2*1000} / 30] = 3.69 \text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 3.69mW.

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 above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.