Analysis Report

The Equipment Under Test (EUT) is a transmitter of a RC system, which is operating at 49.860MHz as dictated by a crystal. The EUT is powered by 1 x Block size battery. The EUT has a power ON/OFF switch and control key.

After switching ON the EUT and the corresponding robort(ie. Receiver), activating the control key on the EUT can control the robort moving forward, backward, left and right. It can charge the receiver by plug in the charging port over the receiver.

Antenna Type: Integral, external Nominal field strength is 67.7dBµV/m @ 3m Production Tolerance of field strength is 64.7 dBµV/m to 70.7dBµV/m Antenna gain is 0dBi

Based on the Maximum allowed field strength of production tolerance was 70.7dBµV/m at 3m in frequency 49MHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.00352mW$

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

Conducted Power = 0.00352mW

The SAR Exclusion Threshold Level for 49MHz when the minimum test separation distance is < 50mm:

- = [474 * (1 + log100/f(MHz))]/2
- = 308.6 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.