Analysis Report

The Equipment Under Test (EUT) is a transmitter of a RC system, which is operating at 27.145MHz as dictated by a crystal. The EUT is powered by 2 x AA size batteries. The EUT has a power ON/OFF switch and control key.

After switching ON the EUT and the corresponding car(ie. Receiver), activating the control key on the EUT can control the car moving forward, backward, left and right.

Antenna Type: Integral, external Nominal field strength is 58.4dBμV/m @ 3m Production Tolerance of field strength is 55.4dBμV/m to 61.4 dBμV/m Antenna gain is 0dBi

Based on the Maximum allowed field strength of production tolerance was 61.4dBµV/m at 3m in frequency 27.145MHz, thus;

The EIRP = $[(FS*D) ^2*1000 / 30] = 0.000414mW$

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

Conducted Power = 0.000414mW

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm:

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

= 371.2 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.