Analysis Report

Report No.: 14080919HKG-001

The Equipment Under Test (EUT) is a transmitter of a RC Car operating at 49.860 MHz as dictated by a crystal. The EUT is powered by a 9.0 V DC source (1 x 9V Block size battery). The EUT has a forward / reverse trigger and a steering wheel for left / right direction.

After switching ON the EUT and the receiver of the RC Car, activating the control buttons on the EUT can control the receiver moving forward, backward, right and left.

Antenna Type: External, telescope-type antenna with unique antenna connector

Antenna Gain: 0dBi

Nominal rated field strength: 70.8dBµV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 73.8dBµV/m at 3m in frequency 49.860MHz, thus;

The EIRP = $[(FS*D) ^2*1000 / 30] = 0.0072 mW$ Thus;

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

Conducted Power = 0.0072mW.

The SAR Exclusion Threshold Level for 49.860MHz 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.