## **Analysis Report**

Report No.: 15050360HKG-001R1

The Equipment Under Test (EUT) is a transmitter of a remote control car operating at 27.145 MHz as dictated by a crystal. The EUT is powered by a 4.5VDC source (3 x 1.5V AAA size batteries). The EUT has two sticks for controlling the car to move forward, backward, left and right.

After switching ON the EUT and the receiver of the remote car, the car will be activated by press either one of the button.

Antenna Type: External integral antenna Antenna Gain: 0dBi Nominal rated field strength: 56.8dBµV/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 59.8dBµV/m at 3m in frequency 27.145MHz, thus;

The EIRP = [(FS\*D) ^2\*1000 / 30] = 0.000286mW

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

Conducted Power = 0.000286mW.

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm: = [474 \* (1 + log100/f(MHz))]/2 = 371.2mW

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.