Analysis Report

Report No.: 13080515HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Controller Unit) for a RC car operating at 2411 – 2465MHz with 1 MHz channel spacing. The EUT is powered by 8 X 1.5V AA batteries. After switch on the EUT and paired with car, the car can be controlled to move forward, backward, turning left and right direction by the EUT. To charge the internal battery in the car, plug the charging connector into the charging jack on the car for starting the charge process.

Antenna Type: Internal integral antenna Antenna Gain: 0dBi Production tolerance: +7dBm (Minimum) to +9.7dBm (Maximum) According to the KDB 447498:

Based on the Maximum allowed radiated power of production tolerance was +9.7dBm in frequency 2.4GHz, thus;

Maximum radiated power (EIRP) is 9.33mW (i.e. +9.7dBm), thus;

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

Conducted Power = 9.33mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.465) mW = 9.55 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.