Analysis Report

Report No.: 16121198HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Controller Unit) operating at a frequency range pf 2402-2480MHz with 1 MHz channel spacing. The EUT is powered by 9V battery. After switching on the EUT and Paired with the car, the car can be controlled to move forward/backward and turn left/right by the controller.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 90.1dBµV/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 93.1dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D) ^2*1000 / 30] = 0.613 \text{mW}$

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

Conducted Power = 0.613mW.

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) mW
- = 9.53 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.