## **Analysis Report**

Report No.: 15040305HKG-003

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Helicopter Unit) for a RC helicopter operating at 2411MHz ~ 2465MHz. The EUT is powered by 1 X 3.7V rechargeable battery (Li-Poly). After switch on the EUT and paired with controller, the EUT can be controlled to fly forward, backward and turning left/right direction by the corresponding controller. Using an USB charging cable can charge the internal battery in the helicopter via PC.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 93.6dBµV/m at 3m

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

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 96.6dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D) ^2*1000 / 30] = 1.371mW$ 

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

Conducted Power = 1.371mW

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.