## **Analysis Report**

The Equipment Under Test (EUT) is a 2.4GHz Robot (Body Unit) for RC Robot (Head Unit) operated at 2418-2461MHz with 1MHz Channel Spacing. The EUT is powered by 1 X 7.2V rechargeable battery. After switch on the EUT and paired with RC Robot (Head Unit), the RC Robot can be controlled to move forward, backward, turn right/left by the RC Robot (Head Unit).

Antenna Type: Internal antenna

Antenna Gain: 0Bi

Nominal rated field strength: 80.7dBµV/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  $83.7dB\mu V/m$  at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 0.070$ mw

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

Conducted Power = 0.070mW.

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.461) mW = 9.56 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.