## **Analysis Report**

The Equipment Under Test (EUT) is a 2.4GHz Controller operating from 2405.5-2463.5MHz with 0.5MHz channel spacing for RC Car. The EUT is powered by 3\*1.5V AA batteries. After switch on the EUT and paired with RC Car, the RC Car can be controlled to fly forward, backward, turn left/right by EUT.

Antenna Type: Internal antenna

Antenna Gain: 0Bi

Nominal rated field strength: 93.7dBµV/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  $96.7dB\mu V/m$  at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 1.403$ mw

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

Conducted Power =1.403 mW.

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.475) 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.