

# Analysis Report

The Equipment Under Test (EUT) is a 2.4GHz RC CAR operating from 2407-2477MHz with 1MHz channel spacing. The EUT is powered by 4.5V AAA batteries. After switch on the EUT and paired with Controller, the EUT can be controlled to fly forward, backward, turn left/right.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 95.9dB $\mu$ V/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 98.9dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS * D)^2 * 1000 / 30] = 2.329\text{mw}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 2.329mW.

The SAR Exclusion Threshold Level:

=  $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in}$

GHz) =  $3.0 * 5 / \text{sqrt}(2.475) \text{ mW}$

= 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.