Analysis Report

The Equipment Under Test (EUT) is a 2.4GHz Pure Transmitting Controller for RC Robot (Head Unit) operated at 2418-2461MHz with 1MHz Channel Spacing. The EUT is powered by 3 X 1.5V AAA batteries. 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 controller.

Antenna Type: Internal antenna

Antenna Gain: 0Bi

Nominal rated field strength: 92.5dBμV/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 95.5dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D)^2*1000 / 30]= 1.064mw

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

Conducted Power =1.064mW.

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.