Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Controller Unit) for a RC car operating at the frequency range of 2411-2475MHz with 1 MHz channel spacing.

The EUT is powered by 2*1.5V AAA battery. After switching on the EUT and being paired with car, the car can be controlled to move forward/backward and turn left/ right by the controller.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 73.7dBµV/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 $76.7 dB\mu V/m$ at 3m in frequency 2.4 GHz, thus;

The EIRP = $[(FS*D) ^2*1000 / 30] = 0.014 mW$

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

Conducted Power = 0.014mW.

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.