Analysis Report

The Equipment Under Test (EUT), is a portable 27.145MHz Transmitter (Controller Unit) for a RC car. The EUT is powered by 2 x 1.5V AA size batteries.

After switch on the EUT, model: 83658, the car will be moved forward or backward, turned left or right based on the joystick control in the controller.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Maximum allowed field strength range is from 61.4 dB μ 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 $64.4 \text{ dB}\mu\text{V/m}$ at 3m in frequency 27MHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.001 \text{mW}$

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

Conducted Power = 0.001 mW.

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (0.027145) mW
- = 90.6 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.

FCC ID: 2AIS6-83658-27