

Analysis Report

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Dinosaur Unit) for a RC controller. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz with 1MHz channel spacing.

The EUT is powered by 1 x 3.7V lithium-ion battery. It can be recharged through a USB-C cable by a 5.0VDC USB port. After switching on the EUT, the EUT will move in different directions based on the switches pressed in the controller, emit sound and light. The EUT cannot be operated during charging.

2.4GHz portion

Antenna Type: Internal, Integral
Antenna Gain: 0dBi

Conducted Power range is -15dBm to 0dBm

According to the KDB 447498 D01 V04:

Conducted Power (max)
= 0 dBm
= 1 mW

The SAR Exclusion Threshold Level:
= $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
= $3.0 * 5 / \sqrt{2.480}$ 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.