

Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (RC toy controller) operating at the frequencies stated below:

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2435 | 2436 | 2437 |
| 2438 | 2439 | 2440 | 2441 | 2442 | 2443 | 2444 | 2445 | 2467 | 2468 |
| 2469 | 2470 | 2471 | 2472 | 2473 | 2474 | 2475 | 2476 | 2477 | |

The EUT is powered by 3*1.5V AA battery. And it can be used to control the dinosaur to move and make sound.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 89.2 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 92.2dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.498\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.498mW.

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \text{sqrt}(2.477) \text{ mW}$

= 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.