

## Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (RC robot dinosaur) 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 3.7V rechargeable battery. And it can be controlled to move and make sound.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 93.8 dB $\mu$ 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 96.8 dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.436\text{mW}$

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

Conducted Power = 1.436mW.

The SAR Exclusion Threshold Level:

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

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

= 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.