

# Analysis Report

Report No.: 18030264HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Toy Drone (Controller portion) operating at the frequency range of 2408-2472MHz with 1 MHz channel spacing. It can be connected to the corresponding drone to move forward/ backward/ left/ right. The EUT is powered by 2 x 1.5V AAA size batteries.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 95.3dBμV/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 98.3dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 2.028\text{mW}$

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

Conducted Power = 2.028mW.

The SAR Exclusion Threshold Level:

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

=  $3.0 \cdot 5 / \sqrt{2.408} \text{ mW}$

= 9.67 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.