

# Analysis Report

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Pillbug 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 Polymer 803450 battery. After switching on the controller, the EUT will move in different directions or roll its body based on the switches pressed in the controller.

## 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.