Analysis Report

Report No.: 19031210HKG-002

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (RC plane). The operation frequency range is between 2412MHz and 2472MHz with 61 channels. The channel is separated by 1 MHz channel spacing.

The EUT is powered by $1 \times 3.7 \text{V}$ rechargeable battery. After switch on the EUT, the plane will be moved forward, backward, upward, downward, left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral

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Antenna Gain: 0dBi

Nominal rated field strength (Peak): 105.0dBµV/m at 3m Nominal rated field strength (Average): 72.4dBµV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the average allowed field strength of production tolerance was 75.4dB μ V/m at 3m.

Thus, it below calculated field strength according to minimum SAR exclusion threshold level as follows:

The worst case of SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.483.5) mW
- = 9.52 mW

According to the KDB 412172 D01:

 $EIRP = [(FS*D)^2*1000 / 30]$

Calculated Field Strength for 9.52mW is <u>105dBuV/m</u> at 3m

Since average field strength plus production tolerance <= 105dBuV/m at 3m and antenna gain is >= 0.0dBi, it is concluded that maximum Conducted Power and Field Strength are well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.