Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (controller Unit) for a RC Drone operated at 2455-2479MHz. The EUT is powered by 2 X 1.5V AAA batteries. After switch on the EUT and paired with RC Drone, the RC Drone can be controlled to fly forward, backward, turning left/right direction by the controller.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 95.0dBµV/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 98.0dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 1.893$ mw

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

Conducted Power = 1.893mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.475) 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.