Analysis Report

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Car Unit) for a RC Controller from (2414,2423,2452,2467)MHz. The EUT is powered by 2 X 3.2VDC rechargeable batteries. After switch on the EUT and paired with controller, the EUT can be controlled

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 88.5dBµV/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 $91.5 dB\mu V/m$ at 3m in frequency 2.4 GHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.424 \text{mW}$

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

Conducted Power =0.424mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.467) mW = 9.55 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.