Analysis Report

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Centipede. The sample supplied operated on 24 channels, normally at 2410 - 2475MHz. The channels are shown in below table.

2410	**2413**	**2416**	**2419**	**2422**
2425	**2428**	**2431**	**2434**	**2437**
2440	**2442**	**2444**	**2446**	**2448**
2451	**2454**	**2457**	**2460**	**2463**
2466	**2469**	**2472**	**2475**	

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the centipede will be moved forward and turned left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna
Antenna Gain: 0dBi
Nominal rated field strength is 95.3dBµV/m at 3m (Peak), 72.2dBµV/m at 3m (Average)
Maximum allowed production tolerance: +/- 3dB

According to the KDB 447498:

Based on the maximum average field strength of production tolerance was 75.2dBµV/m at 3m in frequency 2.410GHz.

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 105dBuV/m @3m

Since maximum average field strength plus production tolerance < = 105dBuV/m @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.