RF Exposure

The equipment under test (EUT) is a TS RC VEHICLE operating at 2.4G Band. The EUT can be powered by DC 6.0V (4 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
The normal radiated output power (e.i.r.p) is: -8.0dBm (tolerance: +/- 1dB).
The normal conducted output power is -8.0dBm (tolerance: +/- 1dB).
Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 87.8dBμV/m at 3m in the frequency 2440MHz
The EIRP = [(FS*D) ^2 / 30] mW = -7.43dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 85.9dBμV/m at 3m in the frequency 2462MHz
The EIRP = [(FS*D) ^2 / 30] mW = -9.33dBm
which is within the production variation.

The maximum conducted output power specified is -7.0dBm= 0.200mW
The source- based time-averaging conducted output power
=0.200mW

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g SAR test exclusion thresholds are determined by the following:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0
The result is
=(0.200/5)* √2.440 GHz
=0.06

Since the result is well below the values 3.0, so the EUT is considered to comply with SAR requirement without testing.