RF Exposure

The equipment under test (EUT) is a DMX racer operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA 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: 3.0dBm (tolerance: +/- 3dB).
The normal conducted output power is 3.0dBm (tolerance: +/- 3dB).
Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 100.8dBμV/m at 3m in the frequency 2423MHz
The EIRP = [(FS*D) ^2 / 30] mW = 5.57dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 97.4dBμV/m at 3m in the frequency 2463MHz
The EIRP = [(FS*D) ^2 / 30] mW = 2.17dBm
which is within the production variation.

The maximum conducted output power specified is 6dBm= 3.981mW
The source- based time-averaging conducted output power
=3.981mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.463) mW
= 9.56 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.