RF Exposure

The equipment under test (EUT) is a Toy RC Propeller with Foam Planes with 2.4GHz transmit function operating in 2410-2465MHz. The EUT is powered by DC 3V(2*AAA battery). For more detail information pls. refer to the user manual.

Modulation Type: GFSK.
Antenna Type: Integral antenna.
Antenna Gain: 2dBi.
The nominal conducted output power specified: -13dBm (+/-3dB).
The nominal radiated output power (e.i.r.p) specified: -11dBm (+/- 3dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 82.6dBμV/m at 3m in the frequency 2437MHz
The EIRP = [(FS*D) ^2 / 30] mW = -12.63dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 81.4dBμV/m at 3m in the frequency 2410MHz
The EIRP = [(FS*D) ^2 / 30] mW = -13.83dBm
which is within the production variation.

The maximun conducted output power specified is -10dBm = 0.1mW
The source- based time-averaging conducted output power
= 0.1 * Duty factor mW (where Duty Factor≤1)
= 0.1 mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.465) mW
= 9.55 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.