RF Exposure

The Equipment Under Test (EUT) is a STRAPPRO operating at 433.92MHz. The EUT is powered by DC 3.7V (1 x 3.7V rechargeable battery). And the RF function will be shut down and it can't transmit RF signals while charging. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral Antenna
Modulation: FSK
Antenna Gain: 0dBi
The normal peak radiated output power (e.i.r.p) is: -25.0dBm (tolerance: +/- 3dB).
The normal peak conducted output power is -25.0dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 69.4 dBμV/m at 3m in the frequency 433.93MHz
The EIRP = [(FS*D) ^2 / 30] mW = -25.83dBm
which is within the production variation.

The maximum conducted output power specified is -22.0dBm= 0.00631mW
The source- based time-averaging conducted output power
=0.00631mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (433.93) mW
= 22.77mW

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.