

Analysis Report

The 4669 is a SleepSure Sensor incorporating a Bluetooth BLE transceiver.

The Equipment Under Test (EUT) operates at frequency range of 2402MHz to 2480MHz with 39 channels.

The EUT is powered by a 3.7V internal rechargeable battery

2.4GHz Bluetooth portion

Antenna Type: Internal, Integral

Antenna Gain: 2dBi

EIRP range is -10dBm to 0dBm

According to the KDB 447498:

$$\begin{aligned}\text{Conducted Power (max)} &= \text{EIRP} - \text{Antenna gain} \\ &= 0 \text{ dBm} - 2 \text{ dBi} \\ &= -2 \text{ dBm (0.63 mW)}\end{aligned}$$

The SAR Exclusion Threshold Level:

$$\begin{aligned}&= 3.0 * (\text{min. test separation distance, mm}) / \text{sqrt(freq. in GHz)} \\ &= 3.0 * 5 / \text{sqrt (2.480)} \text{ mW} \\ &= 9.53 \text{ mW}\end{aligned}$$

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.