

Technical Description

The Equipment Under Test (EUT) is a Baby Tracker (Sensor) with a Bluetooth BLE transceiver. The EUT operates at frequency range of 2402MHz to 2480MHz. The EUT is powered by a 3.7V internal rechargeable battery.

2.4GHz Bluetooth:

Modulation Type: GFSK

Antenna Type: Integral, Internal (PCB Trace)

Frequency Range: 2402MHz - 2480MHz, 2MHz channel spacing

Peak EIRP range is -10 dBm to 0 dBm

Antenna gain is 2 dBi

The main components are described below:

1. U1 (nRF51822) is the 2.4GHz Bluetooth BLE RF radio core
2. Y1 (32.768kHz crystal) is slow clock for U1
3. Y2 (16MHz crystal) is master clock for U1
4. U6 (HC32L130F8UA) is MCU
5. X3 (32.768kHz crystal) is operating clock for U6