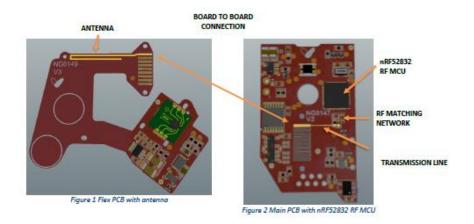
FCC ID: PN2-MDI2

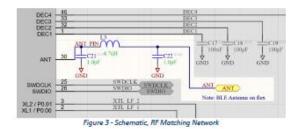


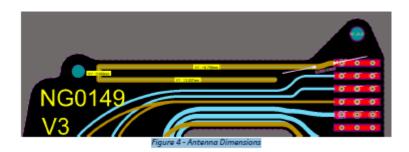
## Antenna Description - RF Antenna

The Hailie™ Sensor uses a 2.4GHz radio frequency antenna to communicate using the Bluetooth Low Energy protocol. The antenna is driven by the Nordic nRF52832 microcontroller, which is configured to operate at 1.0 mW (0dBm) output power at 2.40 - 2.48 GHz on 40 channels of 2MHz bandwidth using GFSK modulation.

An omnidirectional antenna is implemented in copper as part of the flexible printed circuit board and is used for both transmit and receive.







Total PCB Antenna Length = 1.594 + 16.910 + 0.999 + 13.803 = 33.3 mm

Antenna Style = Folded Monopole

Antenna Type = Omni-directional

## NF0108 Hailie™ for GSK pMDI Sensors

FCC ID: PN2-MDI2



## **EMC – Antenna RF Test Results**

| Product | Test  | Result   |
|---------|---|----------|
| NF0108  | NF0108 Conducted power after matching network | -10.5dBm |
| NF0108  | NF0108 Radiated Power (EIRP)                  | -7.8dBm  |

## **Antenna Gain**

Antenna Gain = Radiated Power – Conducted Power

(-7.8 dBm) - (-10.5 dBm) = +2.7 dBi Gain