

## RF Exposure FCC ID: NDX-WALKBY

### Bluetooth:

Bluetooth output power:	3.9 dBm (0.0025 W)
Antenna gain:	up to 8 dBi
Possible ERP:	11.9 dBm (0.0155W)

### 134.2 kHz Transmitter:

Field strength average:	104.9 dBμV/m @ 3 m
Output ERP:	9.7 dBm (0.0093 W)

### Power levels combined:

(BT and 134.2kHz):	0.0248 W
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### Calculation of power density at 20 cm for mobile device:

As certification holder of the BT Module declared in the FCC Listing under FCC ID: PVH0925, the max. measured conducted power output is 2.46 mW (3.9 dBm), and the maximum antenna gain is 8.0 dBi. Both, max conducted and radiated output power are well below the low threshold defined as  $(60/f \text{ GHz})$  mW for  $d < 2.5 \text{ cm}$  in the TCB exclusion list. Therefore the device is exempted.

### Confirmation of safety when carrying by the handle while the device is powered on:

a) 2.4 GHz:

$$[ 24.8 / d ] \times [ 1.55 ] = 3$$

$$24.8 / d = 1.936$$

$$d = 24.8 / 1.936$$

$$d = 12.8 \text{ mm}$$

b) 134.2 kHz (0.0001342 GHz):

$$[ 24.8 / d ] \times [ 0.0116 ] = 3$$

$$24.8 / d = 258.97$$

$$d = 24.8 / 258.97$$

$$d = 0.096 \text{ mm}$$

### Conclusion:

As long as the user is always more than 12.8 mm away from both the RFID and Bluetooth antennas at the same time, it is safe to use the device.