# RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	BT+2.4G Mouse
Model Name	MD172
FCC ID	2AKHJ-MD172

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

# 3. CALCULATION

BLE:

Pt= -1.746dBm=0.669mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(0.669 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.440 \text{GHz}}] = 0.209 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

2.4G

Pt=3.912dBm=2.462mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(2.462mW /5mm) .[ $\sqrt{2.402}$ GHz)]=0.763<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

Note: The 2.4G and BLE mode can not transmitter at the same time

# 4. CONCLUSION

The SAR evaluation is not required.