RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	ANC Wireless Earbuds ATF1000
Model Name	ATF1000
FCC ID	2AWXK-ATF1000

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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 ≤ 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:

P_t=-0.774dBm=0.84mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR= $(0.84\text{mW} / 5\text{mm}) \cdot [\sqrt{2.44}(\text{GHz})] = 0.26 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BR&EDR:

P+=2.861dBm=1.93mW

The value of the Maximum output power P_t is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(1.93mW /5mm) .[$\sqrt{2.48}$ (GHz)]= 0.61<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.