

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Bluetooth headphone
Model Name	Orange Crest MK 2
FCC ID	2A3TF-CRESTMK2

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

BR&EDR:

P_t=6.119dBm=4.09mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 $\S 15.247$.

The result for RF exposure evaluation SAR= $(4.09 \text{mW} / 5 \text{mm}).[\sqrt{2.480 \text{GHz}}]=1.284<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE:

P_t=6.108dBm=4.08mW

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= $(4.08\text{mW} / 5\text{mm}).[\sqrt{2.480\text{GHz}}]=1.281<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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