

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless Earbuds
Model Name	iSound
FCC ID	2ARYG-ISOUND

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:

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

Where $f(\text{GHz})$ 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:

$P_t = 1.357\text{dBm} = 1.37\text{mW}$

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 $\text{SAR} = (1.37\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}] = 0.43 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE:

GFSK 1Mbps:

$P_t = 8.035\text{dBm} = 6.36\text{mW}$

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 $\text{SAR} = (6.36\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}] = 1.97 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

GFSK 2Mbps:

$P_t = 8.101\text{dBm} = 6.46\text{mW}$

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 $\text{SAR} = (6.46\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}] = 2.00 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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