

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

| Product Description | Bluetooth headphones |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name | NB-1092 |
| Series Model | SSX23P106, NB-1100F, NB-1100, NB-1100FS, NB-1100BF, NB-1300B, NB-1300BF, NB-1300, NB-1050, NB-1060, NB-1090, NB-1090P, NB-1070, NB-1070S, NB-1094, NB-1093, NB-1700, NB-1600, NB-2030, NB-1093, NB-1095, NB-1096, NB-1097, NB-1050, NB-2040 |
| FCC ID | 2ALHZNB-1092 |

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=0.601dBm=1.15mW

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= $(1.15\text{mW} / 5\text{mm}).[\sqrt{2.480\text{GHz}}]=0.361<3.0$ for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

BLE GFSK 1Mbps:

P_t=-2.104dBm=0.62mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 $\S15.247$.

The result for RF exposure evaluation SAR= $(0.62\text{mW} / 5\text{mm}).[\sqrt{2.480\text{GHz}}]=0.195<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE GFSK 2Mbps:

P_t=-2.206dBm=0.60mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 $\S15.247$.

The result for RF exposure evaluation SAR= $(0.60 \text{mW} / 5 \text{mm}).[\sqrt{2.480 \text{GHz}}]=0.188<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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