

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Sound Blaster X5
Model Name	SB1820
FCC ID	2AJIV-SB1820

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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\left[\sqrt{f(GHz)}\right] \le 3.0$ 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

Pt= -1.155dBm=0.76mW

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=(0.76mW /5mm) .[$\sqrt{2.480GHz}$)]=0.24<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

BLE

Pt= -6.664dBm=0.22mW

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=(0.22mW /5mm) .[$\sqrt{2.480GHz}$)]=0.07<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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