



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	BMD-380
Model Name	BMD-380
FCC ID	XPYBMD380

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 \leq 50 mm are determined by:

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

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

GFSK-1M

$P_t = 0.515 \text{ dBm} = 1.13 \text{ mW}$

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 $\text{SAR} = (1.13 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.44(\text{GHz})}] = 0.35 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

GFSK-2M

$P_t = 0.541 \text{ dBm} = 1.13 \text{ mW}$

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 $\text{SAR} = (1.13 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.44(\text{GHz})}] = 0.36 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

O-QPSK

$P_t = 0.481 \text{ dBm} = 1.12 \text{ mW}$

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 $\text{SAR} = (1.12 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.44(\text{GHz})}] = 0.35 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.



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