

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	BMD-340
Model Name	BMD-340
FCC ID	2AA9B10

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

According to the follow transmitter output power (P_t) formula :

GFSK 2M

$P_t=4.579\text{dBm}=2.87\text{mW}$

The result for RF exposure evaluation

$\text{SAR}=(2.87\text{mW}/5\text{mm}) \cdot [\sqrt{2.48(\text{GHz})}]=0.90<3.0$ for 1-g SAR

O-QPSK

$P_t=4.579\text{dBm}=2.87\text{mW}$

The result for RF exposure evaluation

$\text{SAR}=(2.87\text{mW}/5\text{mm}) \cdot [\sqrt{2.48(\text{GHz})}]=0.90<3.0$ for 1-g SAR

4. CONCLUSION

The SAR evaluation is not required.