

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	UHF WIRELESS MIC
Model Name	SMM107U, SMM107, SMM107A, SMM107XX (X is reserved for future color change, it can be 0-9, A-Z or NA)
FCC ID	2AAXO-SMM107U

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:

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

Wireless microphones:

$$P_t = -25.90\text{dBm} = 0.003\text{mW}$$

The result for RF exposure evaluation $\text{SAR} = (0.003\text{mW} / 5\text{mm}) \cdot [\sqrt{0.6627(\text{GHz})}] = 0.00049 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.