

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	2.4G Quadcopter
Test Model	LM19
Series Model	LM19-A, LM19-B, LM19-C, LM19-D, LM19-E, LM19-F, LM19-G, LM19-H, LM19-I, LM19-J, LM19-K, LM19-L, LM19-M, LM19-N, LM19-O, LM19-P, LM19-Q, LM19-R, LM19-S, LM19-T, LM19-U, LM19-V, LM19-W, LM19-X, LM19-Y, LM19-Z
FCC ID	2AROE-LM19

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

$$P_t = 5.250\text{dBm} = 3.35\text{mW}$$

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 $\text{SAR} = (3.35\text{mW} / 5\text{mm}) \cdot [\sqrt{2.477(\text{GHz})}] = 1.05 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.