

FCC RF Exposure

EUT Description: ceiling fan light

ModelNo.:XD42A,755,758,749A,749B,XD47,XD2A,XD39D,732,XD9,XD21,XD24,XD26,XD31,
XD55,XD45,XD747,762,XD22

FCC ID: 2A5ZW-XD42A

Equipment type: Portable Device

1. Test Procedure

According to KDB 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:

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

where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. Test Result of RF Exposure Evaluation

	Output power (dBm/ mW)	Result calculation	SAR Exclusion threshold	SAR Test exclusion
802.11b	2.91/1.9543	0.6102	3.0	Yes
802.11g	2.34/1.7140	0.5379	3.0	Yes
802.11n(20MHz)	1.96/1.5704	0.4878	3.0	Yes
802.11n(40MHz)	2.03/1.5959	0.4983	3.0	Yes

Conclusion: No SAR is required