

FCC ID: 2ADMT-HB005 RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1093 & 447498 D01 General RF Exposure Guidance v06

Requirements

1) 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:

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

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. 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 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

The procedures / limit

Source-based time-averaged maximum output power(dBm)	Source-based time-averaged maximum output power(mW)	Minimum test separation distance required for the exposure conditions(mm)	SAR Test Exclusion Thresholds Calculation Value	SAR Test Exclusion Thresholds Limit	Result
-23.11	0.0049	5	0.00065	3.0	Compliance

Test Channel: $f=433.97\text{MHz}=0.43397\text{GHz}$, so $\sqrt{f(\text{GHz})}=0.659$

Note: the following is Source-based time-averaged maximum output power Calculation

Frequency	Source-based time-averaged maximum output power	Substituted (0dBm)	Source-based time-averaged maximum output power
(MHz)	(dBμV/m)	(dBμV/m)	(dBm)
433.97	72.09	95.20	-23.11

Result: Compliance

No SAR measurement is required.