

RF EXPOSURE EVALUATION METHOD

FCC ID:2ACII-5612

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

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

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.

Maximum measured transmitter power.

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1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)
CH00	2402	2.01	1.589
CH39	2441	3.10	2.042
CH78	2480	3.38	2.178
2Mbps			
CH00	2402	1.25	1.334
CH39	2441	2.35	1.718
CH78	2480	2.61	1.824
3Mbps			
CH00	2402	1.99	1.581
CH39	2441	3.11	2.046
CH78	2480	3.37	2.173

Remark: The best case gain of the antenna is 1.0dBi.

1.0 dBi logarithmic terms convert to numeric result is nearly 1.26

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:

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

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Test Channel	Range	tune up max power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance, mm)]	[f(GHz)]	Result	Limit
1Mbps							
CH00	2~4	4	2.512	5	2.402	0.779	3
CH39	2~4	4	2.512	5	2.441	0.785	3
CH78	2~4	4	2.512	5	2.480	0.791	3
2Mbps							
CH00	1~3	3	1.995	5	2.402	0.618	3
CH39	1~3	3	1.995	5	2.441	0.623	3
CH78	1~3	3	1.995	5	2.480	0.628	3
3Mbps							
CH00	1.5~3.5	3.5	2.239	5	2.402	0.694	3
CH39	1.5~3.5	3.5	2.239	5	2.441	0.700	3
CH78	1.5~3.5	3.5	2.239	5	2.480	0.705	3

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.