FCC ID: 2AB64-T4301

RF EXPOSURE EVALUATION METHOD

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SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 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 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

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Maximum measured transmitter power.

WIFI:

TX 802.11b Mode								
Test Channe	Frequency	Maximum Peak Conducted Output Power (PK)	Maximum Peak Conducted Output Power (AV)	Maximum Peak Conducted Output Power (AV)				
	(MHz)	(dBm)	(dBm)	mW				
CH01	2412	12.35	9.23	8.38				
CH06	2437	12.44	9.46	8.83				
CH11	2462	12.73	9.71	9.35				
TX 802.11g Mode								
CH01	2412	11.71	8.16	6.55				
CH06	2437	11.86	8.34	6.82				
CH11	2462	12.08	8.62	7.28				
TX 802.11n(20) Mode								
CH01	2412	11.04	7.11	5.14				
CH06	2437	11.25	7.43	5.53				
CH11	2462	11.46	7.66	5.83				
TX 802.11n(40) Mode								
CH03	2422	10.96	7.03	5.05				
CH06	2437	11.03	7.22	5.27				
CH09	2452	11.25	7.41	5.51				

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 \leq 50 mm are determined by:

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

WIFI:

Mode	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[√f(GHz)]	Result	Limit				
802.11b									
CH01	8.38	5	2.412	2.60	3				
CH06	8.83	5	2.437	2.76	3				
CH11	9.35	5	2.462	2.93	3				
802.11g									
CH01	6.55	5	2.412	2.03	3				
CH06	6.82	5	2.437	2.13	3				
CH11	7.28	5	2.462	2.28	3				
802.11n(20)									
CH01	5.14	5	2.412	1.60	3				
CH06	5.53	5	2.437	1.73	3				
CH11	5.83	5	2.462	1.83	3				
802.11n(40)									
CH03	5.05	5	2.422	1.57	3				
CH06	5.27	5	2.437	1.65	3				
CH09	5.51	5	2.452	1.73	3				

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

Conclusion: No SAR is required.