FCC ID: 2ABQ8Q8

RF EXPOSURE EVALUATION METHOD

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.

MHz	5	10	15	20	25	mm		
150	39	77	116	155	194			
300	27	55	82	110	137			
450	22	45	67	89	112			
835	16	33	49	66	82			
900	16	32	47	63	79			
1500	12	24	37	49	61	SAR Test Exclusion Threshold (mW)		
1900	11	22	33	44	54			
2450	10	19	29	38	48			
3600	8	16	24	32	40			
5200	7	13	20	26	33			
5400	6	13	19	26	32			
5800	6	12	19	25	31			

Maximum measured transmitter power

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	11.87	9.45	8.810				
CH06	2437	11.67	9.40	8.710				
CH11	2462	11.59	9.38	8.670				
TX 802.11g Mode								
CH01	2412	10.27	8.67	7.362				
CH06	2437	10.32	8.72	7.447				
CH11	2462	10.21	8.54	7.145				
TX 802.11n(20) Mode								
CH01	2412	9.66	8.14	6.516				
CH06	2437	9.25	8.25	6.683				
CH11	2462	9.74	8.12	6.486				

Remark: The best case gain of the antenna is 0dBi.

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	8.912	5	2.412	2.77	3			
CH06	8.912	5	2.437	2.78	3			
CH11	8.912	5	2.462	2.80	3			
802.11g								
CH01	7.943	5	2.412	2.47	3			
CH06	7.943	5	2.437	2.48	3			
CH11	7.943	5	2.462	2.49	3			
802.11n(20)								
CH01	7.943	5	2.412	2.47	3			
CH06	7.943	5	2.437	2.48	3			
CH11	7.943	5	2.462	2.49	3			

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

Conclusion: No SAR is required.