FCC ID: 2ACAZQD-710GR-TV

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	SAR Test Exclusion		
1500	12	24	37	49	61			
1900	11	22	33	44	54	Threshold (mW)		
2450	10	19	29	38	48	Threshold (III W)		
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 Average Conducted Output Power (AV)	Maximum Average Conducted Output Power (AV)				
	(MHz) (dBm)		(dBm)	mW				
CH01	2412	10.09	9.31	8.531				
CH06	2437	10.15	9.34	8.590				
CH11	2462	9.97	9.28	8.472				
TX 802.11g Mode								
CH01	2412	10.06	9.29	8.492				
CH06	2437	9.83	9.22	8.356				
CH11	2462	9.75	9.20	8.318				
TX 802.11n(20) Mode								
CH01	2412	9.26	8.56	7.178				
CH06	2437	9.23	8.44	6.982				
CH11	2462	9.18	8.32	6.792				

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	8.913	5	2.412	2.768	3			
CH06	8.913	5	2.437	2.783	3			
CH11	8.913	5	2.462	2.797	3			
802.11g								
CH01	8.913	5	2.412	2.768	3			
CH06	8.913	5	2.437	2.783	3			
CH11	8.913	5	2.462	2.797	3			
802.11n(20)								
CH01	7.943	5	2.412	2.467	3			
CH06	7.943	5	2.437	2.480	3			
CH11	7.943	5	2.462	2.493	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.