

## RF EXPOSURE EVALUATION METHOD

## FCC ID: YVV-AEEP6000001

## 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  $\leq$  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  $\leq 50$  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.

## WIFI:

TX 802.11b Mode										
Test Channe	Frequency	Maximum Conducted Output Power(PK)	Maximum Conducted Output Power(AV)	Maximum Conducted Output Power(AV)						
	(MHz)	(dBm) (dBm)		(mW)						
CH01	2412	12.71	9.59	9.099						
CH06	2437	12.84	9.52	8.954						
CH11	2462	12.76	9.54	8.995						
TX 802.11g Mode										
CH01	2412	11.41	8.28	6.730						
CH06	2437	11.36	8.23	6.653						
CH11	2462	11.34	8.21	6.622						
TX 802.11n-HT20 Mode										
CH01	2412	10.81	8.58	7.211						
CH06	2437	10.78	8.55	7.161						
CH11	2462	10.76	8.53	7.129						



Remark: The best case gain of the antenna is 2.0dBi.

2.0 dBi logarithmic terms convert to numeric result is nearly 1.58

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

WIFI:

distance,mm)] • [√f(GHz)]

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				
TX 802.11b Mode											
CH01	7.6~9.6	9.6	9.120	5	2.412	2.83	3				
CH06	7.6~9.6	9.6	9.120	5	2.437	2.85	3				
CH11	7.6~9.6	9.6	9.120	5	2.462	2.86	3				
TX 802.11g Mode											
CH01	7.0~9.0	9.0	7.943	5	2.412	2.47	3				
CH06	7.0~9.0	9.0	7.943	5	2.437	2.48	3				
CH11	7.0~9.0	9.0	7.943	5	2.462	2.49	3				
TX 802.11n-HT20 Mode											
CH01	7.0~9.0	9.0	7.943	5	2.412	2.47	3				
CH06	7.0~9.0	9.0	7.943	5	2.437	2.48	3				
CH11	7.0~9.0	9.0	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.