

RF EXPOSURE EVALUATION METHOD

FCC ID:2ADTH-PH-01

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.

Maximum measured transmitter power.

BT

1Mbps									
Test Channel	Frequency	Peak Output Power	Peak Output Power						
	(MHz)	(dBm)	(mW)						
CH00	2402	-2.790	0.526						
CH39	2441	-2.760	0.530						
CH78	2480	-2.915	0.511						
2Mbps									
CH00	2402	-3.956	0.402						
CH39	2441	-3.995	0.399						
CH78	2480	-4.146	0.385						
3Mbps									
CH00	2402	-3.824	0.415						
CH39	2441	-3.739	0.423						
CH78	2480	-3.944	0.403						

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)] • [√f(GHz)]

BT

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	-1~-3	-1	0.794	5	2.402	0.246	3		
CH39	-1~-3	-1	0.794	5	2.441	0.248	3		
CH78	-1~-3	-1	0.794	5	2.48	0.250	3		
2Mbps									
CH00	-3~-5	-3	0.501	5	2.402	0.155	3		
CH39	-3~-5	-3	0.501	5	2.441	0.157	3		
CH78	-3~-5	-3	0.501	5	2.48	0.158	3		
3Mbps									
CH00	-3~-5	-3	0.501	5	2.402	0.155	3		
CH39	-3~-5	-3	0.501	5	2.441	0.157	3		
CH78	-3~-5	-3	0.501	5	2.48	0.158	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.