

## RF EXPOSURE EVALUATION METHOD

## FCC ID: 2AFM4-G1

## 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  $\leq 50$  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.

BT 3.0

1Mbps						
Test Channel	Frequency	Peak Output Power	Peak Output Power			
lest Chamber	(MHz)	(dBm)	(mW)			
CH00	2402	0.42	1.102			
CH39	CH39 2441		1.107			
CH78	CH78 2480		0.946			
2Mbps						
CH00	CH00 2402		1.127			
CH39	CH39 2441		1.130			
CH78	CH78 2480		0.973			
3Mbps						
CH00	CH00 2402		1.127			
CH39	CH39 2441		1.130			
CH78 2480		-0.15	0.966			

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Test Channe	Frequency	Maximum Conducted Output Power(PK)	Maximum Conducted Output Power(PK)	
	(MHz)	(dBm)	mW	
CH00	2402	-1.88	0.649	
CH19	2440	-1.65	0.684	
CH39	2480	-1.55	0.700	



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)] • [ $\sqrt{f(GHz)}$ ]

BT 3.0

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	-1~1	1	1.259	5	2.402	0.390	3		
CH39	-1~1	1	1.259	5	2.441	0.393	3		
CH78	-1~1	1	1.259	5	2.480	0.397	3		
	2Mbps								
CH00	-1~1	1	1.259	5	2.402	0.390	3		
CH39	-1~1	1	1.259	5	2.441	0.393	3		
CH78	-1~1	1	1.259	5	2.480	0.397	3		
3Mbps									
CH00	-1~1	1	1.259	5	2.402	0.390	3		
CH39	-1~1	1	1.259	5	2.441	0.393	3		
CH78	-1~1	1	1.259	5	2.480	0.397	3		

BT 4.0

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
CH00	-3~-1	-1	0.794	5	2.402	0.246	3
CH39	-3~-1	-1	0.794	5	2.441	0.248	3
CH78	-3~-1	-1	0.794	5	2.480	0.250	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.