FCC ID: 2ABVX-B1

RF EXPOSURE EVALUATION METHOD

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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.

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Maximum measured transmitter power.

BT3.0

1Mbps						
Test Channel	Frequency	Peak Output Power	Peak Output Power			
rest Charmer	(MHz)	(dBm)	(mW)			
CH00	2402	-3.257	0.472			
CH39	2441	-4.264	0.375			
CH78	2480	-5.588	0.276			
	2Mbps					
CH00	2402	-4.674	0.341			
CH39	2441	-5.222	0.300			
CH78	2480	-6.789	0.209			
	3Mbps					
CH00	2402	-4.415	0.362			
CH39	2441	-5.066	0.311			
CH78	2480	-6.503	0.224			

BT4.0:

TX Mode					
Test Channe	Frequency	Maximum Conducted Output Power	Peak Output Power		
Chame	(MHz)	(dBm)	(mW)		
CH00	2402	-3.891	0.408		
CH19	2440	-3.360	0.461		
CH39	2480	-3.438	0.453		

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)] • [$\sqrt{f(GHz)}$]

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BT3.0:

Mode	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[√f(GHz)]	Result	Limit
		1Mbps			
CH00	0.472	5	2.402	0.146	3
CH39	0.375	5	2.441	0.117	3
CH78	0.276	5	2.480	0.087	3
2Mbps					
CH00	0.341	5	2.402	0.106	3
CH39	0.300	5	2.441	0.094	3
CH78	0.209	5	2.480	0.066	3
3Mbps					
CH00	0.362	5	2.402	0.112	3
CH39	0.311	5	2.441	0.097	3
CH78	0.224	5	2.480	0.070	3

BT4.0:

Mode	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[√f(GHz)]	Result	Limit
CH00	0.408	5	2.402	0.127	3
CH19	0.461	5	2.440	0.144	3
CH39	0.453	5	2.480	0.143	3

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

Conclusion: No SAR is required.