RF EXPOSURE TEST FCC ID: 2ABWOCMP765

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 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	
1500 12	24	37	49	61	SAR Test Exclusion
1900 11	22	33	44	54	Threshold (mW)
2450 10	19	29	38	48	(,
3600 8	16	24	32	40	
5200 7	13	20	26	33	
5400 6	13	19	26	32	
5800 6	12	19	25	31	
MHz 30	35	40	45	50	mm
			73	30	mm
150 232	271	310	349	387	111111
150 232 300 164	271 192				111111
150		310	349	387	111111
300 164	192	310 219	349 246	387 274	шп
300 164 450 134	192 157	310 219 179	349 246 201	387 274 224	
300 164 450 134 835 98	192 157 115	310 219 179 131	349 246 201 148	387 274 224 164	SAR Test
300 164 450 134 835 98 900 95	192 157 115 111	310 219 179 131 126	349 246 201 148 142	387 274 224 164 158	SAR Test Exclusion
300 164 450 134 835 98 900 95 1500 73	192 157 115 111 86	310 219 179 131 126 98	349 246 201 148 142 110	387 274 224 164 158 122	SAR Test
300 164 450 134 835 98 900 95 1500 73 1900 65	192 157 115 111 86 76	310 219 179 131 126 98 87	349 246 201 148 142 110 98	387 274 224 164 158 122 109	SAR Test Exclusion
300 164 450 134 835 98 900 95 1500 73 1900 65 2450 57	192 157 115 111 86 76 67 55 46	310 219 179 131 126 98 87 77 63 53	349 246 201 148 142 110 98 86 71 59	387 274 224 164 158 122 109 96 79 66	SAR Test Exclusion
300 164 450 134 835 98 900 95 1500 73 1900 65 2450 57 3600 47	192 157 115 111 86 76 67 55	310 219 179 131 126 98 87 77 63	349 246 201 148 142 110 98 86 71	387 274 224 164 158 122 109 96 79	SAR Test Exclusion

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:

\leq 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] •
[$\sqrt{f_{\text{(GHz)}}}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR,16 where
\square f _(GHz) is the RF channel transmit frequency in GHz
\square Power and distance are rounded to the nearest mW and mm before calculation 17
\square The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum <i>test separation distance</i> is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum <i>test separation</i>

distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power.

802.11B

frequency range (MHz)	Maximum Peak Conducted Output Power (dBm)	Maximum Conducted Output Power (mW)	Exclusion Thresholds Results	Limit
2412	9.61	9.14	2.839	3.0
2437	9.47	8.85	2.763	3.0
2462	9.49	8.89	2.790	3.0

Conclusion: No SAR is required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, <math>mW)/(min. test separation distance, mm)] • $[\sqrt{f_{(GHz)}}]$

 $f_{(GHz)}$ is the RF channel transmit frequency in GHz

☐ Distance=5mm

802.11G

frequency range (MHz)	Maximum Peak Conducted Output Power (dBm)	Maximum Conducted Output Power (mW)	Exclusion Thresholds Results	Limit
2412	9.02	7.98	2.479	3.0
2437	8.91	7.78	2.429	3.0
2462	8.96	7.87	2.470	3.0

Conclusion: No SAR is required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, <math>mW)/(min. test separation distance, mm)] • $[\sqrt{f_{(GHz)}}]$

f_(GHz) is the RF channel transmit frequency in GHz

☐ Distance=5mm

802.11N20

frequency range (MHz)	Maximum Peak Conducted Output Power (dBm)	Maximum Conducted Output Power (mW)	Exclusion Thresholds Results	Limit
2412	8.63	7.29	2.264	3.0
2437	8.57	7.19	2.245	3.0
2462	8.39	6.90	2.165	3.0

Conclusion: No SAR is required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, <math>mW)/(min. test separation distance, mm)] • $[\sqrt{f_{(GHz)}}]$

 $f_{\mbox{\scriptsize (GHz)}}$ is the RF channel transmit frequency in GHz

☐ Distance=5mm

802.11N 40M

frequency range (MHz)	Maximum Peak Conducted Output Power (dBm)	Maximum Conducted Output Power (mW)	Exclusion Thresholds Results	Limit
2422	7.79	6.01	1.870	3.0
2437	7.63	5.79	1.808	3.0
2452	7.68	5.86	1.835	3.0

Conclusion: No SAR is required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, <math>mW)/(min. test separation distance, mm)] • $[\sqrt{f_{(GHz)}}]$

 $f_{\left(GHz\right)}$ is the RF channel transmit frequency in GHz

☐ Distance=5mm
