FCC ID: 2AAD8-WU331

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1

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)] • [\surd f(GHz)] \leqslant 3.0 for 1-g SAR and \leqslant 7.5 for 10-g extremity SAR, 16 where

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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.

802.11b

	Peak	Peak	Peak	Peak			
Frequency	Output	Output	Output	Output	Calculation	Calculation	Threshold
	Power of	Power of	Power of	Power of	Value of	Value of	Value
(MHz)	Chain 1	Chain 2	Chain 1	Chain 2	Chain 1	Chain 2	value
	(dBm)	(dBm)	(mW)	(mW)			
2412	1.64	1.55	1.459	1.429	0.453	0.444	3.0
2437	1.73	1.73	1.489	1.489	0.465	0.465	3.0
2462	1.76	1.75	1.500	1.496	0.471	0.469	3.0

802.11g

	Peak	Peak	Peak	Peak			
Frequency	Output	Output	Output	Output	Calculation	Calculation	Threshold
	Power of	Power of	Power of	Power of	Value of	Value of	Value
(MHz)	Chain 1	Chain 2	Chain 1	Chain 2	Chain 1	Chain 2	value
	(dBm)	(dBm)	(mW)	(mW)			
2412	2.65	2.66	1.841	1.845	0.572	0.579	3.0
2437	2.66	2.27	1.845	1.687	0.576	0.527	3.0
2462	2.38	2.52	1.730	1.786	0.543	0.560	3.0

802.11n20

	Peak	Peak	Peak	Peak			
Frequency (MHz)	Output	Output	Output	Output	Calculation	Calculation	Threshold
	Power of	Power of	Power of	Power of	Value of	Value of	Value
(MITIZ)	Chain 1	Chain 2	Chain 1	Chain 2	Chain 1	Chain 2	v alue
	(dBm)	(dBm)	(mW)	(mW)			
2412	1.86	1.56	1.535	1.432	0.477	0.445	3.0
2437	1.41	1.72	1.384	1.486	0.432	0.464	3.0
2462	1.23	1.38	1.327	1.374	0.416	0.431	3.0

802.11n40

	Peak	Peak	Peak	Peak			
Frequency (MHz)	Output	Output	Output	Output	Calculation	Calculation	Threshold
	Power of	Power of	Power of	Power of	Value of	Value of	Value
(MITIZ)	Chain 1	Chain 2	Chain 1	Chain 2	Chain 1	Chain 2	v alue
	(dBm)	(dBm)	(mW)	(mW)			
2422	0.62	0.32	1.153	1.076	0.359	0.335	3.0
2437	0.48	0.65	1.117	1.161	0.349	0.362	3.0
2452	0.82	0.68	1.208	1.169	0.379	0.367	3.0

802.11n20 Total Peak Power

Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculation Value	Threshold Value
2412	4.72	2.97	0.923	3.0
2437	4.58	2.87	0.896	3.0
2462	4.31	2.70	0.847	3.0

802.11n40 Total Peak Power

Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculation Value	Threshold Value
2422	3.48	2.23	0.694	3.0
2437	3.58	2.28	0.712	3.0
2452	3.77	2.38	0.745	3.0

Threshold at which no SAR required is \leq 3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion: No SAR is required.

$\frac{\text{SIMULTANEOUS TRANSMISSION EVALUATION}}{\text{N/A}}$