

RF Exposure Evaluation

FCC ID:2BBNM-PC0380

REQUIREMENT

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

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 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 according to 4.1 f) is applied to determine SAR test exclusion.

TEST RESULT

ANT 1

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up tolerance Power (mW)	Calculating data	Limit	Results
802.11a	5745	5.18	± 1	6.18	4.15	1.9892	3.00	Pass
	5785	5.74	± 1	6.74	4.72	2.2708		
	5825	5.96	± 1	6.96	4.97	2.3971		
802.11n (HT20)	5745	4.93	± 1	5.93	3.92	1.8779		
	5785	5.53	± 1	6.53	4.50	2.1636		
	5825	5.86	± 1	6.86	4.85	2.3425		
802.11n (HT40)	5755	4.67	± 1	5.67	3.69	1.7703		
	5795	5.54	± 1	6.54	4.51	2.1705		
802.11 ac(HT20)	5745	4.89	± 1	5.89	3.88	1.8607		
	5785	5.34	± 1	6.34	4.31	2.0710		
	5825	5.94	± 1	6.94	4.94	2.3860		
802.11 ac(HT40)	5755	4.71	± 1	5.71	3.72	1.7867		
	5795	5.52	± 1	6.52	4.49	2.1605		
802.11 ac(HT80)	5775	5.14	± 1	6.14	4.11	1.9761		



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ANT 2

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up tolerance Power (mW)	Calculating data	Limit	Results
802.11a	5745	5.08	±1	6.08	4.06	1.9439	3.00	Pass
	5785	5.49	±1	6.49	4.46	2.1438		
	5825	5.71	±1	6.71	4.69	2.2630		
802.11n (HT20)	5745	5.30	±1	6.3	4.27	2.0449		
	5785	5.46	±1	6.46	4.43	2.1290		
	5825	5.69	±1	6.69	4.67	2.2526		
802.11n (HT40)	5755	4.64	±1	5.64	3.66	1.7581		
	5795	5.31	±1	6.31	4.28	2.0585		
802.11 ac(HT20)	5745	5.12	±1	6.12	4.09	1.9619		
	5785	5.57	±1	6.57	4.54	2.1836		
	5825	5.74	±1	6.74	4.72	2.2787		
802.11 ac(HT40)	5755	4.83	±1	5.83	3.83	1.8368		
	5795	5.59	±1	6.59	4.56	2.1956		
802.11 ac(HT80)	5775	4.96	±1	5.96	3.94	1.8959		

Note:

- The exposure safety distance is less than 5mm.
- The ANT 1 and ANT 2 can not be transmit simultaneously.

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