

RF Exposure Evaluation

FCC ID: 2A4BF-AIWO1401

REQUIREMENT

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

[(max. power of channel, including tune-up tolerance,mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 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

Passed

Not Applicable

2.4G WIFI

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculating data	Limit	Results
802.11b	2412	5.46	4.5±1	3.55	1.1021	3.00	Pass
	2437	5.18	4.5±1	3.55	1.1078		
	2462	5.15	4.5±1	3.55	1.1135		
802.11g	2412	4.65	4.5±1	3.55	1.1021		
	2437	4.83	4.5±1	3.55	1.1078		
	2462	4.82	4.5±1	3.55	1.1135		
802.11n (HT20)	2412	4.45	4.5±1	3.55	1.1021		
	2437	4.72	4.5±1	3.55	1.1078		
	2462	4.77	4.5±1	3.55	1.1135		
802.11 (HT40)	2422	4.65	4.5±1	3.55	1.1044		
	2437	4.87	4.5±1	3.55	1.1078		
	2452	4.89	4.5±1	3.55	1.1112		



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EDR

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculating data	Limit	Results
DH5	2402	3.84	4±1	3.16	0.9802	3.00	Pass
	2441	4.34	4±1	3.16	0.9881		
	2480	4.93	4±1	3.16	0.9960		
2DH5	2402	3.82	4±1	3.16	0.9802		
	2441	4.21	4±1	3.16	0.9881		
	2480	4.84	4±1	3.16	0.9960		
3DH5	2402	4.10	4±1	3.16	0.9802		
	2441	4.40	4±1	3.16	0.9881		
	2480	4.85	4±1	3.16	0.9960		

BLE

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculating data	Limit	Results
GFSK_1M	2402	2.29	2±1	2.00	0.6185	3.00	Pass
	2440	2.49	2±1	2.00	0.6233		
	2480	2.97	2±1	2.00	0.6284		



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802.11a Single mode(Worst case) For 5GHz WIFI

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculating data	Limit	Results
802.11a	5180	5.66	5±1	3.98	1.8122	3.00	Pass
	5200	5.59	5±1	3.98	1.8156		
	5240	4.98	5±1	3.98	1.8226		

Note:

-The exposure safety distance is less than 5mm.

-5G WIFI and BT no simultaneous transmission .

-The 5G WIFI and 2.4G WIFI can transmit simultaneously and MPE ratio (2.4G WIFI + BT) = 1.1135 +0.9960 =2.1095 < 3 and it satisfy the RF exposure requirements for simultaneous transmission that the sum of the MPE ratios < 3.

--THE END--