



KSIGN (Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park,
Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China
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RF Exposure Evaluation

FCC ID:2BBQH-ZQC-P1

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

☒ Passed

☐ Not Applicable

2.4G WIFI

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
802.11b	2412	7.88	± 1	8.88	2.4000	2.8328	3.00	Pass
	2437	7.52	± 1	8.52	2.2205	2.8475		
	2462	7.28	± 1	8.28	2.1119	2.8620		
802.11g	2412	7.78	± 1	8.78	2.3454	1.5567		
	2437	7.36	± 1	8.36	2.1402	1.5648		
	2462	7.41	± 1	8.41	2.1761	1.5728		
802.11n (HT20)	2412	7.07	± 1	8.07	1.9917	2.1990		
	2437	7.43	± 1	8.43	2.1750	2.2103		
	2462	7.68	± 1	8.68	2.3157	2.2216		
802.11 (HT40)	2422	7.09	± 1	8.09	2.0050	2.2035		
	2437	7.54	± 1	8.54	2.2308	2.2103		
	2452	7.18	± 1	8.18	2.0596	2.2171		



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5GWIFI BAND I

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	5180	4.70	±1	5.70	3.72	1.6912	3.00	Pass
	5220	3.25	±1	4.25	2.66	1.2158		
	5240	4.14	±1	5.14	3.27	1.4952		
802.11n (HT20)	5180	4.54	±1	5.54	3.58	1.6300		
	5220	3.16	±1	4.16	2.61	1.1909		
	5240	4.26	±1	5.26	3.36	1.5371		
802.11n (HT40)	5190	3.63	±1	4.63	2.90	1.3232		
	5230	3.48	±1	4.48	2.81	1.2832		
802.11 ac(HT20)	5180	4.49	±1	5.49	3.54	1.6114		
	5220	3.27	±1	4.27	2.67	1.2214		
	5240	4.13	±1	5.13	3.26	1.4917		
802.11 ac(HT40)	5190	3.61	±1	4.61	2.89	1.3171		
	5230	3.62	±1	4.62	2.90	1.3252		
802.11 ac(HT80)	5210	4.67	±1	5.67	3.69	1.6844		



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5GWIFI BAND IV

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	3.03	±1	4.03	2.53	1.2125	3.00	Pass
	5785	2.21	±1	3.21	2.09	1.0074		
	5825	2.56	±1	3.56	2.27	1.0957		
802.11n (HT20)	5745	3.06	±1	4.06	2.55	1.2209		
	5785	2.09	±1	3.09	2.04	0.9799		
	5825	2.34	±1	3.34	2.16	1.0415		
802.11n (HT40)	5755	2.42	±1	3.42	2.20	1.0545		
	5795	2.35	±1	3.35	2.16	1.0413		
802.11 ac(HT20)	5745	2.87	±1	3.87	2.44	1.1686		
	5785	2.06	±1	3.06	2.02	0.9732		
	5825	2.48	±1	3.48	2.23	1.0757		
802.11 ac(HT40)	5755	2.04	±1	3.04	2.01	0.9662		
	5795	2.53	±1	3.53	2.25	1.0853		
802.11 ac(HT80)	5775	2.75	±1	3.75	2.37	1.1397		



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BLE

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
BLE 1M	2402	-8.10	±1	-7.10	0.19	0.0604	3.00	Pass
	2440	-8.37	±1	-7.37	0.18	0.0572		
	2480	-11.87	±1	-10.87	0.08	0.0258		
BLE 2M	2402	-8.11	±1	-7.11	0.19	0.0603		
	2440	-8.50	±1	-7.50	0.18	0.0556		
	2480	-12.08	±1	-12.08	0.06	0.0195		

BT

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
DH5	2402	4.60	±1	5.60	3.63	1.1254	3.00	Pass
	2441	3.68	±1	4.68	2.94	0.9179		
	2480	1.18	±1	2.18	1.65	0.5203		
2DH5	2402	3.66	±1	4.66	2.92	0.9064		
	2441	2.73	±1	3.73	2.36	0.7376		
	2480	0.49	±1	1.49	1.41	0.4439		
3D5H	2402	3.88	±1	4.88	3.08	0.9535		
	2441	2.72	±1	3.72	2.36	0.7359		
	2480	0.41	±1	1.41	1.38	0.4358		

Note:

- The exposure safety distance is less than 5mm.
- The 5GWIFI, 2.4GWIFI, BLE and BT can not be transmit simultaneously.

--THE END--