



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
Tel.: + (86)755-29852678 Fax: + (86)755-29852397 E-mail: info@gdkesign.cn Website: www.gdkesign.com

RF Exposure Evaluation

FCC ID: 2BGU2-ZENC35

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

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
DH5	2402	4.59	± 1	5.59	3.62	1.1228	3.00	Pass
	2441	4.49	± 1	5.49	3.54	1.1061		
	2480	4.34	± 1	5.34	3.42	1.0771		
2DH5	2402	5.74	± 1	6.74	4.72	1.4632		
	2441	5.13	± 1	6.13	4.10	1.2818		
	2480	5.42	± 1	6.42	4.39	1.3812		
3DH5	2402	5.44	± 1	6.44	4.41	1.3656		
	2441	6.06	± 1	7.06	5.08	1.5879		
	2480	5.94	± 1	6.94	4.94	1.5569		



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
Tel.: + (86)755-29852678 Fax: + (86)755-29852397 E-mail: info@gdkesign.cn Website: www.gdkesign.com

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
BLE_1M	2402	5.24	±1	6.24	4.21	1.3041	3.00	Pass
	2440	4.94	±1	5.94	3.93	1.2267		
	2480	4.44	±1	5.44	3.50	1.1022		
BLE_2M	2402	4.91	±1	5.91	3.90	1.2087		
	2440	4.97	±1	5.97	3.95	1.2352		
	2480	4.32	±1	5.32	3.40	1.0722		

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
11B	2412	4.87	±1	5.87	3.86	1.2001	3.00	Pass
	2437	4.73	±1	5.73	3.74	1.1680		
	2462	4.43	±1	5.43	3.49	1.0957		
11G	2412	4.73	±1	5.73	3.74	1.1620		
	2437	4.28	±1	5.28	3.37	1.0531		
	2462	4.26	±1	5.26	3.36	1.0536		
11N20SISO	2412	4.87	±1	5.87	3.86	1.2001		
	2437	4.39	±1	5.39	3.46	1.0801		
	2462	4.12	±1	5.12	3.25	1.0202		
11N40SISO	2422	4.83	±1	5.83	3.83	1.1916		
	2437	4.36	±1	5.36	3.44	1.0726		
	2452	4.16	±1	5.16	3.28	1.0275		



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
Tel.: + (86)755-29852678 Fax: + (86)755-29852397 E-mail: info@gdkesign.cn Website: www.gdkesign.com

Test mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Maximum Output Power (mW)	Calculating data	Limit	Results
11A	5180	3.81	±1	4.81	3.03	1.3778	3.00	Pass
	5220	4.76	±1	5.76	3.77	1.7213		
	5240	5.13	±1	6.13	4.10	1.8780		
11N20SISO	5180	3.86	±1	4.86	3.06	1.3938		
	5220	4.77	±1	5.77	3.78	1.7253		
	5240	5.08	±1	6.08	4.06	1.8565		
11N40SISO	5190	4.09	±1	5.09	3.23	1.4710		
	5230	5.04	±1	6.04	4.02	1.8377		
11AC20SISO	5180	4.01	±1	5.01	3.17	1.4428		
	5220	4.89	±1	5.89	3.88	1.7736		
	5240	5.21	±1	6.21	4.18	1.9129		
11AC40SISO	5190	4.03	±1	5.03	3.18	1.4508		
	5230	5.06	±1	6.06	4.04	1.8462		
11AC80SISO	5210	4.56	±1	5.56	3.60	1.6423		

Note:

- The 2.4G WIFI/BLE/BT maximum antenna gain is 3.3dBi.
- The 5G WIFI maximum antenna gain is 1.0dBi.
- The exposure safety distance is less than 5mm.
- The 2.4G WIFI, BT, BLE and 5G WIFI can not be simultaneous Transmission.

*****THE END*****