



KSIGN (Guangdong) Testing Co., Ltd.

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RF Exposure Evaluation

FCC ID: 2A54U-DT102

REQUIREMENT

KDB447498 D01 General RF Exposure Guidance v07, 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

BT

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	3.38	3±1	4	2.51	0.7786	3.00	Pass
	2441	4.02	4±1	5	3.16	0.9881		
	2480	3.66	3±1	4	2.51	0.7911		
2DH5	2402	3.97	3±1	4	2.51	0.7786		
	2441	4.63	4±1	5	3.16	0.9881		
	2480	4.19	4±1	5	3.16	0.9960		
3DH5	2402	4.32	4±1	5	3.16	0.9802		
	2441	4.73	4±1	5	3.16	0.9881		
	2480	4.49	4±1	5	3.16	0.9960		



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BLE

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
GFSK_1M	2402	3.47	4±1	5	3.16	0.9802	3.00	Pass
	2440	3.08	4±1	5	3.16	0.9879		
	2480	3.18	4±1	5	3.16	0.9960		
GFSK_2M	2402	3.48	4±1	5	3.16	0.9802		
	2440	3.08	4±1	5	3.16	0.9879		
	2480	3.22	4±1	5	3.16	0.9960		

Note:

- The maximum antenna gain is -0.7dBi.
- The exposure safety distance is less than 5mm.
- BLE+BT can transmit simultaneously, $0.9960+0.9960=1.992 < 3$, so SAR is exemption.

--THE END--