



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--