

FCC ID:S5V-D101V1

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHZ})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f(\text{GHZ})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

BT:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-3.213	0.48	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-3.219	0.48	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-2.87	0.52	-3±1	-2.00	0.63	<5	0.19873	3.00	YES
$\pi/4$ -DQPSK	2.402	-3.501	0.45	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-3.474	0.45	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-3.167	0.48	-3±1	-2.00	0.63	<5	0.19873	3.00	YES
8DPSK	2.402	-3.38	0.46	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-3.323	0.47	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-2.83	0.52	-3±1	-2.00	0.63	<5	0.19873	3.00	YES

BLE:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-4.08	0.39	-4±1	-3.00	0.50	<5	0.15535	3.00	YES
	2.44	-4.65	0.34	-4±1	-3.00	0.50	<5	0.15658	3.00	YES
	2.480	-4.67	0.34	-4±1	-3.00	0.50	<5	0.15785	3.00	YES

WIFI:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	8.60	7.24	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.40	6.92	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.20	6.61	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	8.20	6.61	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.00	6.31	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.40	6.92	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n20	2.412	7.50	5.62	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.40	5.50	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.90	6.17	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n40	2.422	7.30	5.37	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.20	5.25	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.10	5.13	7±1	8.00	6.31	<5	1.97601	3.00	YES

Conclusion:

For the max result : 2.49272W/Kg ≤ FCC Limit 3.0W/Kg for 1g SAR.

Jason chen

Signature:

Date: 2017-9-11

NAME AND TITLE (Please print or type): Jason Chen /Manager

COMPANY (Please print or type): Shenzhen NTEK Testing Technology Co., Ltd./ 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China.