

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  $\leq 50$  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  $\leq 7.5$  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: Left

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d 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	1.522	1.42	2±1	3	2.00	<5	0.61847	3.00	YES
	2.44	1.601	1.45	2±1	3	2.00	<5	0.62334	3.00	YES
	2.480	1.805	1.52	2±1	3	2.00	<5	0.62843	3.00	YES
$\pi/4$ -DQPSK	2.402	3.602	2.29	4±1	5	3.16	<5	0.98020	3.00	YES
	2.44	4.011	2.52	4±1	5	3.16	<5	0.98793	3.00	YES
	2.480	3.810	2.40	4±1	5	3.16	<5	0.99599	3.00	YES
8-DPSK	2.402	4.071	2.55	4±1	5	3.16	<5	0.98020	3.00	YES
	2.44	4.364	2.73	4±1	5	3.16	<5	0.98793	3.00	YES
	2.480	4.133	2.59	4±1	5	3.16	<5	0.99599	3.00	YES

BT: Right

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d 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	1.788	1.51	2±1	3	2.00	<5	0.61847	3.00	YES
	2.44	2.580	1.81	2±1	3	2.00	<5	0.62334	3.00	YES
	2.480	2.539	1.79	2±1	3	2.00	<5	0.62843	3.00	YES
$\pi/4$ -DQPSK	2.402	3.566	2.27	3±1	4	2.51	<5	0.77860	3.00	YES
	2.44	3.952	2.48	3±1	4	2.51	<5	0.78474	3.00	YES
	2.480	3.562	2.27	3±1	4	2.51	<5	0.79114	3.00	YES
8-DPSK	2.402	3.983	2.50	4±1	5	3.16	<5	0.98020	3.00	YES
	2.44	4.383	2.74	4±1	5	3.16	<5	0.98793	3.00	YES
	2.480	4.026	2.53	4±1	5	3.16	<5	0.99599	3.00	YES

### Conclusion:

For the max result :  $0.99599\text{W/Kg} \leq 3.0$  for 1g SAR, No SAR is required.

*Jason chen*

Signature:

Date: 2019-03-18

**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.