

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.

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	6.97	4.98	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.51	4.48	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	5.46	3.52	6±1	7	5.01	<5	1.57854	3.00	YES
$\pi/4$ -DQPSK	2.402	5.14	3.27	4.5±1	5.5	3.55	<5	1.09981	3.00	YES
	2.441	4.75	2.99	4.5±1	5.5	3.55	<5	1.10870	3.00	YES
	2.480	3.80	2.40	4.5±1	5.5	3.55	<5	1.11752	3.00	YES
8-DQPSK	2.402	5.73	3.74	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.32	3.40	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.36	2.73	5±1	6	3.98	<5	1.25388	3.00	YES
BLE-1M	2.402	7.19	5.24	6.5±1	7.5	5.62	<5	1.74308	3.00	YES
	2.440	6.74	4.72	6.5±1	7.5	5.62	<5	1.75681	3.00	YES
	2.480	5.72	3.73	6.5±1	7.5	5.62	<5	1.77115	3.00	YES
BLE-2M	2.402	7.2	5.25	6.5±1	7.5	5.62	<5	1.74308	3.00	YES
	2.440	6.85	4.84	6.5±1	7.5	5.62	<5	1.75681	3.00	YES
	2.480	5.96	3.94	6.5±1	7.5	5.62	<5	1.77115	3.00	YES

Conclusion:

For the max result : $1.77115 \leq 3.0$ for 1g SAR, SAR is not required.



Signature:

Date: 2023-06-14

NAME AND TITLE (Please print or type): Alex li /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.