

FCC ID: VLJ-SH032

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: 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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.66	1.16	1.5±1	2.5	1.78	<5	0.55121	3.00	YES
	2.441	1.01	1.26	1.5±1	2.5	1.78	<5	0.55567	3.00	YES
	2.480	1.29	1.35	1.5±1	2.5	1.78	<5	0.56009	3.00	YES
π/4-DQPSK	2.402	3.18	2.08	3.5±1	4.5	2.82	<5	0.87361	3.00	YES
	2.441	4.4	2.75	3.5±1	4.5	2.82	<5	0.88067	3.00	YES
	2.480	3.36	2.17	3.5±1	4.5	2.82	<5	0.88768	3.00	YES
8-DPSK	2.402	3.63	2.31	3.87±1	4.87	3.07	<5	0.95130	3.00	YES
	2.441	4.87	3.07	3.87±1	4.87	3.07	<5	0.95899	3.00	YES
	2.480	3.79	2.39	3.87±1	4.87	3.07	<5	0.96662	3.00	YES

BLE: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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.03	0.99	0.5±1	1.5	1.41	<5	0.43784	3.00	YES
	2.440	1.15	1.30	0.5±1	1.5	1.41	<5	0.44129	3.00	YES
	2.480	1.49	1.41	0.5±1	1.5	1.41	<5	0.44489	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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	1.13	1.30	2.1±1	3.1	2.04	<5	0.63287	3.00	YES
	2.441	2.06	1.61	2.1±1	3.1	2.04	<5	0.63799	3.00	YES
	2.480	2.07	1.61	2.1±1	3.1	2.04	<5	0.64307	3.00	YES
π/4-DQPSK	2.402	3.61	2.30	3.5±1	4.5	2.82	<5	0.87361	3.00	YES
	2.441	4.49	2.81	3.5±1	4.5	2.82	<5	0.88067	3.00	YES
	2.480	4.38	2.74	3.5±1	4.5	2.82	<5	0.88768	3.00	YES
8-DPSK	2.402	4.04	2.54	4±1	5	3.16	<5	0.98020	3.00	YES
	2.441	4.89	3.08	4±1	5	3.16	<5	0.98813	3.00	YES
	2.480	4.73	2.97	4±1	5	3.16	<5	0.99599	3.00	YES

BLE

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	1.31	1.35	1±1	2	1.58	<5	0.49127	3.00	YES
	2.440	1.93	1.56	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	1.99	1.58	1±1	2	1.58	<5	0.49918	3.00	YES

Conclusion:

For the max result : $0.99599 \leq 3.0$ for 1g SAR, No SAR is required.

ALEX LI

Signature:

Date: 2019-06-10

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.