

FCC ID: 2A7P5-SR-10CU02**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.

BLE1M:

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	-2.285	0.59	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.441	-2.989	0.50	-2±1	-1.00	0.79	<5	0.24821	3.00	YES
	2.480	-3.662	0.43	-3±1	-2.00	0.63	<5	0.19873	3.00	YES

BLE2M:

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	-2.476	0.57	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.441	-3.025	0.50	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-2.611	0.55	-2±1	-1.00	0.79	<5	0.25018	3.00	YES

EDR:

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	-1.29	0.74	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-1.79	0.66	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.54	0.56	-2±1	-1.00	0.79	<5	0.25018	3.00	YES
$\pi/4$ DQPSK	2.402	-1.11	0.77	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-1.43	0.72	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.1	0.62	-2±1	-1.00	0.79	<5	0.25018	3.00	YES
8DQPSK	2.402	-0.69	0.85	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-1.14	0.77	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.01	0.63	-2±1	-1.00	0.79	<5	0.25018	3.00	YES

2.4GWIFI:

Shenzhen CTB Testing Technology Co., Ltd.

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
802.11b	2.412	7.049	5.07	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.578	5.73	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.523	5.65	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	7.172	5.21	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.108	5.14	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.172	5.21	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	7.005	5.02	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.697	5.88	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	6.84	4.83	6±1	7.00	5.01	<5	1.57280	3.00	YES

Conclusion:

For the max result : $1.98004 \leq \text{FCC Limit } 3.0$ for 1g SAR.