

FCC ID: 2BHQC-K56**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	0.745	1.19	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	1.854	1.53	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	0.762	1.19	0±1	1.00	1.26	<5	0.39651	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	0.939	1.24	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	1.77	1.50	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	0.675	1.17	0±1	1.00	1.26	<5	0.39651	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	1.432	1.39	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	2.122	1.63	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	0.744	1.19	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	1.121	1.29	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	2.937	1.97	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	1.103	1.29	1±1	2.00	1.58	<5	0.49918	3.00	YES
8DQPSK	2.402	2.117	1.63	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	3.404	2.19	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	1.461	1.40	1±1	2.00	1.58	<5	0.49918	3.00	YES

2.4GWIFI:

Shenzhen CTB Testing 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	7.926	6.20	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.675	5.85	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.964	6.26	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	7.826	6.06	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.97	6.27	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.697	5.88	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	6.878	4.87	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	8.036	6.36	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.005	6.32	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n(HT40)	2.422	7.528	5.66	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	6.793	4.78	6±1	7.00	5.01	<5	1.56480	3.00	YES
	2.452	7.43	5.53	7±1	8.00	6.31	<5	1.97601	3.00	YES

5GWIFI:

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
802.11a20	5.745	6.965	4.97	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.849	4.84	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.94	4.94	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac20	5.745	6.641	4.61	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.623	4.60	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.54	4.51	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac40	5.745	7.077	5.10	6.5±1	7.50	5.62	<5	2.69572	3.00	YES
	5.785	6.377	4.34	6±1	7.00	5.01	<5	2.41091	3.00	YES
802.11ac80	5.775	6.984	4.99	6±1	7.00	5.01	<5	2.40883	3.00	YES
802.11n(HT20)	5.745	7.037	5.05	6.5±1	7.50	5.62	<5	2.69572	3.00	YES
	5.785	6.716	4.69	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.598	4.57	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n(HT40)	5.755	7.26	5.32	6.5±1	7.50	5.62	<5	2.69807	3.00	YES
	5.795	6.556	4.52	6±1	7.00	5.01	<5	2.41300	3.00	YES

Conclusion:

For the max result : 2.69807≤ FCC Limit 3.0 for 1g SAR.