

FCC ID:2BLRA-NT01**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.

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	3.618	2.30	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	4.106	2.57	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	3.512	2.24	3±1	4.00	2.51	<5	0.79114	3.00	YES
π /4DQPSK	2.402	5.972	3.96	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	6.148	4.12	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	5.8	3.80	5±1	6.00	3.98	<5	1.25388	3.00	YES
8DQPSK	2.402	5.096	3.23	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	6.83	4.82	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	7.354	5.44	7±1	8.00	6.31	<5	1.98727	3.00	YES

BLE:1M

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	2.305	1.70	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	2.579	1.81	2±1	3.00	2.00	<5	0.62334	3.00	YES
	2.480	3.117	2.05	3±1	4.00	2.51	<5	0.79114	3.00	YES

BLE:2M

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	2.65	1.84	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	2.784	1.90	2±1	3.00	2.00	<5	0.62334	3.00	YES
	2.480	2.425	1.75	2±1	3.00	2.00	<5	0.62843	3.00	YES

2.4GWIFI:ANT1

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
802.11b	2.412	5.823	3.82	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.5	3.55	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.858	3.85	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11g	2.412	6.192	4.16	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	5.876	3.87	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.449	3.51	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11n(HT20)	2.412	5.16	3.28	4±1	5.00	3.16	<5	0.98224	3.00	YES
	2.437	5.276	3.37	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.432	3.49	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11n(HT40)	2.422	4.726	2.97	4±1	5.00	3.16	<5	0.98428	3.00	YES
	2.437	5.049	3.20	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.452	4.934	3.11	4±1	5.00	3.16	<5	0.99035	3.00	YES
802.11ax(HT20)	2.412	5.608	3.64	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.536	3.58	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.814	3.81	6±1	7.00	5.01	<5	1.57280	3.00	YES
802.11ax(HT40)	2.422	5.461	3.52	5±1	6.00	3.98	<5	1.23913	3.00	YES
	2.437	5.062	3.21	6±1	7.00	5.01	<5	1.56480	3.00	YES
	2.452	4.898	3.09	4±1	5.00	3.16	<5	0.99035	3.00	YES

2.4GWIFI:ANT2

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
802.11b	2.412	7.757	5.97	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.824	6.06	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.418	5.52	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	5.004	3.17	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.667	3.69	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.284	3.38	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11n(HT20)	2.412	4.685	2.94	4±1	5.00	3.16	<5	0.98224	3.00	YES
	2.437	5.164	3.28	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	4.898	3.09	4±1	5.00	3.16	<5	0.99237	3.00	YES
802.11n(HT40)	2.422	4.144	2.60	4±1	5.00	3.16	<5	0.98428	3.00	YES
	2.437	4.785	3.01	4±1	5.00	3.16	<5	0.98732	3.00	YES
	2.452	4.752	2.99	4±1	5.00	3.16	<5	0.99035	3.00	YES
802.11ax(HT20)	2.412	5.054	3.20	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.269	3.36	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.17	3.29	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11ax(HT40)	2.422	4.716	2.96	4±1	5.00	3.16	<5	0.98428	3.00	YES
	2.437	4.844	3.05	4±1	5.00	3.16	<5	0.98732	3.00	YES
	2.452	4.908	3.10	4±1	5.00	3.16	<5	0.99035	3.00	YES

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 calculation	SAR Exclusion threshold	SAR test exclusion
802.11n(HT20)	2.412	7.939	6.22	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	8.231	6.65	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.184	6.58	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n(HT40)	2.422	7.455	5.57	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.929	6.21	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.854	6.10	7±1	8.00	6.31	<5	1.97601	3.00	YES
802.11ax(HT20)	2.412	8.35	6.84	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.415	6.94	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.514	7.10	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11ax(HT40)	2.422	8.115	6.48	8±1	9.00	7.94	<5	2.47239	3.00	YES
	2.437	7.965	6.26	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.913	6.18	7±1	8.00	6.31	<5	1.97601	3.00	YES

Conclusion:

For the max result : $2.49272 \leq \text{FCC Limit } 3.0$ for 1g SAR.

WiFi 2.4G ANT 2 and BT Simultaneous Transmission: $1.98004 + 0.79114 = 2.377118$

Note: WiFi 2.4G ANT 1 and BT share the same antenna, and cannot transmit simultaneously.
WiFi 2.4G ANT 2 and BT can transmit simultaneously