

FCC ID: 2BVBV-HHAIG28**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	-1.92	0.64	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	0.027	1.01	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.753	0.84	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	-3.143	0.48	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-0.714	0.85	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-1.518	0.71	-1±1	0.00	1.00	<5	0.31496	3.00	YES
8DQPSK	2.402	-3.168	0.48	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-0.728	0.85	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-1.543	0.70	-1±1	0.00	1.00	<5	0.31496	3.00	YES

2.4GWIFI:

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	7.131	5.17	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.497	5.62	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.424	5.53	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	7.779	6.00	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.799	6.02	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.771	5.99	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	7.401	5.50	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.677	5.86	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.635	5.80	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT40)	2.422	7.665	5.84	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	8.195	6.60	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.452	8.126	6.50	8±1	9.00	7.94	<5	2.48766	3.00	YES

5.2GWIFI:

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
802.11a20	5.18	7.164	5.20	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.236	5.29	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	6.49	4.46	6±1	7.00	5.01	<5	2.29454	3.00	YES
802.11ac(VHT20)	5.18	7.464	5.58	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.686	5.87	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	6.58	4.55	6±1	7.00	5.01	<5	2.29454	3.00	YES
802.11ac(VHT40)	5.19	6.894	4.89	6±1	7.00	5.01	<5	2.28357	3.00	YES
	5.23	7.931	6.21	7±1	8.00	6.31	<5	2.88590	3.00	YES
802.11ac(VHT80)	5.21	7.029	5.05	7±1	8.00	6.31	<5	2.88037	3.00	YES
802.11n(HT20)	5.18	7.426	5.53	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.651	5.82	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	6.941	4.94	6±1	7.00	5.01	<5	2.29454	3.00	YES
802.11n(HT40)	5.19	6.857	4.85	6±1	7.00	5.01	<5	2.28357	3.00	YES
	5.23	7.201	5.25	7±1	8.00	6.31	<5	2.88590	3.00	YES

5.8GWIFI:

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
802.11a20	5.745	6.661	4.64	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.81	4.80	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.7	4.68	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac(VHT20)	5.745	6.497	4.46	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.922	4.92	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.83	4.82	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac(VHT40)	5.755	6.962	4.97	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	6.21	4.18	6±1	7.00	5.01	<5	2.41300	3.00	YES
802.11ac(VHT80)	5.775	6.842	4.83	6±1	7.00	5.01	<5	2.40883	3.00	YES
802.11n(HT20)	5.745	6.69	4.67	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.87	4.86	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.92	4.92	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n(HT40)	5.755	6.88	4.88	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	6.78	4.76	6±1	7.00	5.01	<5	2.41300	3.00	YES

Conclusion:

For the max result : 2.88590≤ FCC Limit 3.0 for 1g SAR.