



**FCC ID: 2A16ZC88040919**

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  $\leq 50$  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  $\leq 7.5$  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.

**2.4g**

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	8.35	6.84	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.46	7.01	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.21	6.62	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	8.27	6.71	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.16	6.55	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.92	7.80	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n20	2.412	7.34	5.42	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.17	5.21	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.32	5.40	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n40	2.422	7.91	6.18	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.95	6.24	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.36	5.45	7±1	8.00	6.31	<5	1.97601	3.00	YES

**5g**

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
802.11a	5.745	7.19	5.24	7±0.5	7.50	5.62	<5	2.69572	3.00	YES
	5.785	6.96	4.97	7±0.5	7.50	5.62	<5	2.70509	3.00	YES
	5.825	7.25	5.31	7±0.5	7.50	5.62	<5	2.71443	3.00	YES
802.11n(20)	5.745	6.73	4.71	7±0.5	7.50	5.62	<5	2.69572	3.00	YES
	5.785	6.54	4.51	7±0.5	7.50	5.62	<5	2.70509	3.00	YES
	5.825	6.95	4.95	7±0.5	7.50	5.62	<5	2.71443	3.00	YES
802.11n(40)	5.755	6.79	4.78	7±0.5	7.50	5.62	<5	2.69807	3.00	YES
	5.795	6.58	4.55	7±0.5	7.50	5.62	<5	2.70743	3.00	YES
802.11ac(8)	5.775	6.26	4.23	7±0.5	7.50	5.62	<5	2.70275	3.00	YES

**Conclusion:**

2.4g for the max result :  $2.49272 \leq 3.0$  and 5g for the max result :  $2.71443 \leq 3.0$  compliance with FCC's RF Exposure.