

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.

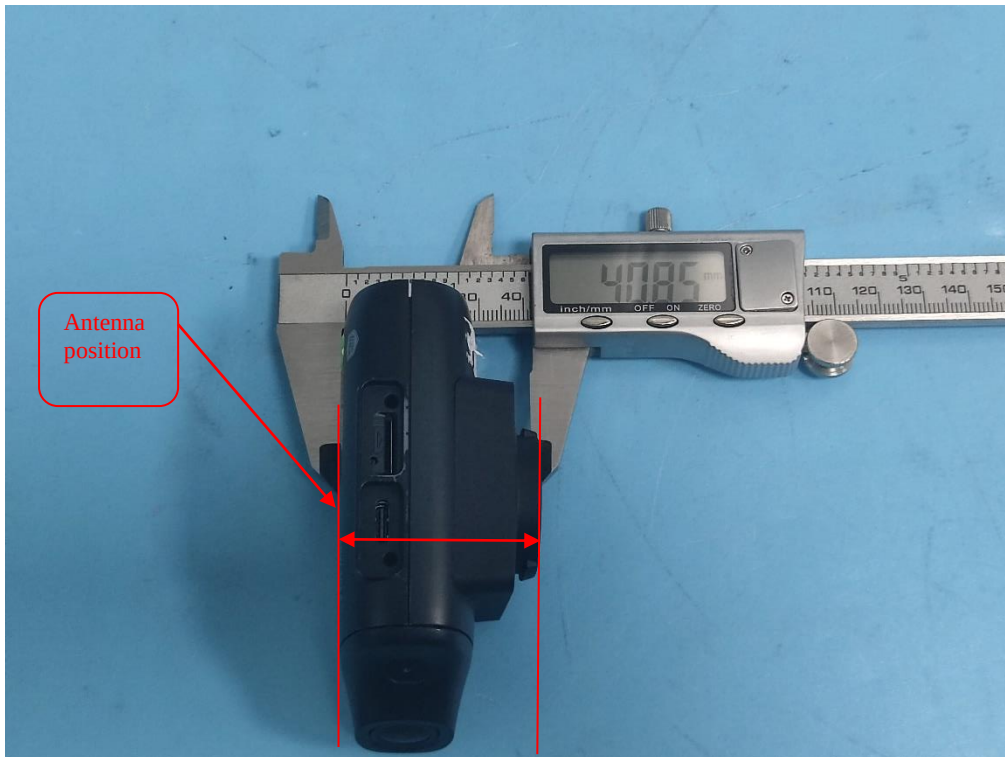
According to KDB447498 D01 General RF Exposure Guidance V06

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 40.85 mm, a distance of 40 mm is applied to determine SAR test exclusion.



2.4G WIFI

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	15.49	35.40	15±1	16	39.81	40.00	1.54571	3.00	YES
	2.437	15.54	35.81	15±1	16	39.81	40.00	1.55370	3.00	YES
	2.462	15.66	36.81	15±1	16	39.81	40.00	1.56165	3.00	YES
802.11g	2.412	13.63	23.07	13±1	14	25.12	40.00	0.97528	3.00	YES
	2.437	13.69	23.39	13±1	14	25.12	40.00	0.98032	3.00	YES
	2.462	13.85	24.27	13±1	14	25.12	40.00	0.98534	3.00	YES
802.11n20	2.412	11.72	14.86	11±1	12	15.85	40.00	0.61536	3.00	YES
	2.437	11.81	15.17	11±1	12	15.85	40.00	0.61854	3.00	YES
	2.462	11.77	15.03	11±1	12	15.85	40.00	0.62170	3.00	YES
802.11n40	2.422	11.96	15.70	12±1	13	19.95	40.00	0.77630	3.00	YES
	2.437	12	15.85	12±1	13	19.95	40.00	0.77870	3.00	YES
	2.452	12.03	15.96	12±1	13	19.95	40.00	0.78109	3.00	YES

5.2G WIFI

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
802.11a	5.18	11.4	13.80	11±1	12	15.85	40.00	0.90179	3.00	YES
	5.200	11.51	14.16	11±1	12	15.85	40.00	0.90353	3.00	YES
	5.240	11.6	14.45	11±1	12	15.85	40.00	0.90700	3.00	YES
802.11n20	5.18	11	12.59	11±1	12	15.85	40.00	0.90179	3.00	YES
	5.200	11.16	13.06	11±1	12	15.85	40.00	0.90353	3.00	YES
	5.240	11.63	14.55	11±1	12	15.85	40.00	0.90700	3.00	YES
802.11n40	5.19	11.75	14.96	12±1	13	19.95	40.00	1.13638	3.00	YES
	5.230	12.06	16.07	12±1	13	19.95	40.00	1.14075	3.00	YES

5.8G WIFI

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
802.11a	5.745	11.21	13.21	11±1	12	15.85	40.00	0.94970	3.00	YES
	5.785	11.46	14.00	11±1	12	15.85	40.00	0.95300	3.00	YES
	5.825	11.63	14.55	11±1	12	15.85	40.00	0.95629	3.00	YES
802.11n20	5.745	10.89	12.27	11±1	12	15.85	40.00	0.94970	3.00	YES
	5.785	11.51	14.16	11±1	12	15.85	40.00	0.95300	3.00	YES
	5.825	11.56	14.32	11±1	12	15.85	40.00	0.95629	3.00	YES
802.11n40	5.755	11.54	14.26	11±1	12	15.85	40.00	0.95052	3.00	YES
	5.795	11.86	15.35	11±1	12	15.85	40.00	0.95382	3.00	YES

Conclusion:

For the max result : $1.56165 \leq 3.0$ for 1g SAR, SAR is not required.

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