

FCC ID: XN6-XDSP01**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.

BT:

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	6.46	4.43	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.35	4.32	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	6.71	4.69	6±1	7	5.01	<5	1.57854	3.00	YES
$\pi/4$ -DQPSK	2.402	4.73	2.97	4±1	5	3.16	<5	0.98020	3.00	YES
	2.441	4.46	2.79	4±1	5	3.16	<5	0.98813	3.00	YES
	2.480	4.56	2.86	4±1	5	3.16	<5	0.99599	3.00	YES
8-DPSK	2.402	5.01	3.17	3±1	4	2.51	<5	0.77860	3.00	YES
	2.441	4.66	2.92	3±1	4	2.51	<5	0.78490	3.00	YES
	2.480	4.78	3.01	3±1	4	2.51	<5	0.79114	3.00	YES
BLE 1M	2.402	2.34	1.71	2±1	3	2.00	<5	0.61847	3.00	YES
	2.440	1.89	1.55	2±1	3	2.00	<5	0.62334	3.00	YES
	2.480	1.29	1.35	2±1	3	2.00	<5	0.62843	3.00	YES

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	8.93	7.82	8±1	9	7.94	<5	2.46728	3.00	YES
	2.437	8.98	7.91	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	7.88	6.14	8±1	9	7.94	<5	2.49272	3.00	YES
802.11g	2.412	8.88	7.73	8±1	9	7.94	<5	2.46728	3.00	YES
	2.437	8.67	7.36	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	8.81	7.60	8±1	9	7.94	<5	2.49272	3.00	YES
802.11n20	2.412	8.72	7.45	8±1	9	7.94	<5	2.46728	3.00	YES
	2.437	8.34	6.82	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	8.46	7.01	8±1	9	7.94	<5	2.49272	3.00	YES
802.11n40	2.422	8.51	7.10	8±1	9	7.94	<5	2.47239	3.00	YES
	2.437	8.65	7.33	8±1	9	7.94	<5	2.48003	3.00	YES
	2.452	8.93	7.82	8±1	9	7.94	<5	2.48766	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	7.65	5.82	7±1	8	6.31	<5	2.87207	3.00	YES
	5.200	7.63	5.79	7±1	8	6.31	<5	2.87761	3.00	YES
	5.240	7.86	6.11	7±1	8	6.31	<5	2.88865	3.00	YES
802.11n20	5.18	7.09	5.12	7±1	8	6.31	<5	2.87207	3.00	YES
	5.200	7.63	5.79	7±1	8	6.31	<5	2.87761	3.00	YES
	5.240	7.7	5.89	7±1	8	6.31	<5	2.88865	3.00	YES
802.11n40	5.19	7.45	5.56	7±1	8	6.31	<5	2.87484	3.00	YES
	5.230	7.98	6.28	7±1	8	6.31	<5	2.88590	3.00	YES
802.11ac20	5.18	7.15	5.19	7±1	8	6.31	<5	2.87207	3.00	YES
	5.200	7.48	5.60	7±1	8	6.31	<5	2.87761	3.00	YES
	5.240	7.98	6.28	7±1	8	6.31	<5	2.88865	3.00	YES
802.11ac40	5.19	7.57	5.71	7±1	8	6.31	<5	2.87484	3.00	YES
	5.23	7.98	6.28	7±1	8	6.31	<5	2.88590	3.00	YES
802.11ac80	5.21	5.08	3.22	5±1	6	3.98	<5	1.81739	3.00	YES

5.3G 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	5.26	7.81	6.04	7±1	8	6.31	<5	2.89416	3.00	YES
	5.280	7.66	5.83	7±1	8	6.31	<5	2.89966	3.00	YES
	5.320	7.57	5.71	7±1	8	6.31	<5	2.91062	3.00	YES
802.11n20	5.26	7.98	6.28	7±1	8	6.31	<5	2.89416	3.00	YES
	5.280	7.9	6.17	7±1	8	6.31	<5	2.89966	3.00	YES
	5.320	7.86	6.11	7±1	8	6.31	<5	2.91062	3.00	YES
802.11n40	5.27	6.8	4.79	7±1	8	6.31	<5	2.89691	3.00	YES
	5.310	6.67	4.65	7±1	8	6.31	<5	2.90789	3.00	YES
802.11ac20	5.26	7.95	6.24	7±1	8	6.31	<5	2.89416	3.00	YES
	5.280	7.92	6.19	7±1	8	6.31	<5	2.89966	3.00	YES
	5.320	7.98	6.28	7±1	8	6.31	<5	2.91062	3.00	YES
802.11ac40	5.27	6.89	4.89	6±1	7	5.01	<5	2.30110	3.00	YES
	5.310	6.62	4.59	6±1	7	5.01	<5	2.30982	3.00	YES
802.11ac80	5.29	6.34	4.31	6±1	7	5.01	<5	2.30546	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	7.12	5.15	6.5±1	7.5	5.62	<5	2.69572	3.00	YES
	5.785	7.33	5.41	6.5±1	7.5	5.62	<5	2.70509	3.00	YES
	5.825	7.13	5.16	6.5±1	7.5	5.62	<5	2.71443	3.00	YES
802.11n20	5.745	6.98	4.99	6.5±1	7.5	5.62	<5	2.69572	3.00	YES
	5.785	7.21	5.26	6.5±1	7.5	5.62	<5	2.70509	3.00	YES
	5.825	6.87	4.86	6.5±1	7.5	5.62	<5	2.71443	3.00	YES
802.11n40	5.755	7.38	5.47	6.5±1	7.5	5.62	<5	2.69807	3.00	YES
	5.795	7.44	5.55	6.5±1	7.5	5.62	<5	2.70743	3.00	YES
802.11ac20	5.745	6.95	4.95	6.5±1	7.5	5.62	<5	2.69572	3.00	YES
	5.785	7.38	5.47	6.5±1	7.5	5.62	<5	2.70509	3.00	YES
	5.825	7.12	5.15	6.5±1	7.5	5.62	<5	2.71443	3.00	YES
802.11ac40	5.755	7.37	5.46	6.5±1	7.5	5.62	<5	2.69807	3.00	YES
	5.795	7.49	5.61	6.5±1	7.5	5.62	<5	2.70743	3.00	YES
802.11ac80	5.775	5.14	3.27	5±1	6	3.98	<5	1.91340	3.00	YES

Conclusion:

For the max result : $2.91062 \leq 3.0$ for 1g SAR, SAR is not required.

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