

FCC ID: 2A2I7-DW156R7

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.422	0.91	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-0.896	0.81	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-1.235	0.75	-1±1	0.00	1.00	<5	0.31496	3.00	YES
Pi/4 DQPSK	2.402	-0.379	0.92	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-0.873	0.82	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-1.198	0.76	-1±1	0.00	1.00	<5	0.31496	3.00	YES
8DPSK	2.402	0.026	1.01	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-0.358	0.92	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.685	0.85	0±1	1.00	1.26	<5	0.39651	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 calculatio n	SAR Exclusion threshold	SAR test exclusion
802.11b (The worst mode)	2.412	7.471	5.59	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	7.159	5.20	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	7.306	5.38	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g (The worst mode)	2.412	5.726	3.74	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	5.479	3.53	6±1	7.00	5.01	<5	1.56480	3.00	YES
	2.462	5.673	3.69	6±1	7.00	5.01	<5	1.57280	3.00	YES
802.11n20 (MIMO)	2.412	6.465	4.43	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	6.364	4.33	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	6.38	4.35	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n40 (MIMO)	2.422	6.438	4.40	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	6.346	4.31	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	6.336	4.30	7±1	8.00	6.31	<5	1.97601	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 (The worst mode)	5.745	5.821	3.82	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	5.147	3.27	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	5.261	3.36	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n20 (MIMO)	5.745	5.901	3.89	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	5.725	3.74	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	5.819	3.82	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n40 (MIMO)	5.755	5.919	3.91	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	5.227	3.33	6±1	7.00	5.01	<5	2.41300	3.00	YES
802.11ac20 (MIMO)	5.745	5.816	3.82	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	5.532	3.57	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	5.802	3.80	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac40 (MIMO)	5.755	5.333	3.41	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	5.050	3.20	6±1	7.00	5.01	<5	2.41300	3.00	YES
802.11ac80 (MIMO)	5.775	5.375	3.45	6±1	7.00	5.01	<5	2.40883	3.00	YES

Conclusion:

For the max result : $2.49272\text{W/Kg} \leq \text{FCC Limit } 3.0 \text{ for } 1\text{g SAR}$.
The Product unsupported at the same time to Transmitting.