

FCC ID: 2BFCN-G14

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	1.043	1.27	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	0.849	1.22	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	0.619	1.15	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	1.811	1.52	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.568	1.43	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.371	1.37	1±1	2.00	1.58	<5	0.49918	3.00	YES
8DQPSK	2.402	2.116	1.63	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	1.883	1.54	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.657	1.46	1±1	2.00	1.58	<5	0.49918	3.00	YES

2.4GWIFI:
ANT1

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	6.01	3.99	5.5±1	6.50	4.47	<5	1.38745	3.00	YES
	2.437	5.89	3.88	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.322	3.41	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11g	2.412	5.588	3.62	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.893	3.88	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	6.107	4.08	5.5±1	6.50	4.47	<5	1.40176	3.00	YES
802.11n(HT20)	2.412	5.632	3.66	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.885	3.88	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	6.122	4.09	5.5±1	6.50	4.47	<5	1.40176	3.00	YES
802.11n(HT40)	2.422	5.267	3.36	5±1	6.00	3.98	<5	1.23913	3.00	YES
	2.437	5.494	3.54	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.452	5.735	3.75	5±1	6.00	3.98	<5	1.24678	3.00	YES

ANT2

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	5.89	3.88	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.65	3.67	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.96	3.94	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11g	2.412	5.968	3.95	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.242	3.34	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.376	3.45	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11n(HT20)	2.412	6.09	4.06	5.5±1	6.50	4.47	<5	1.38745	3.00	YES
	2.437	5.906	3.90	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.175	3.29	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11n(HT40)	2.422	5.758	3.77	5±1	6.00	3.98	<5	1.23913	3.00	YES
	2.437	5.854	3.85	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.452	6.008	3.99	5.5±1	6.50	4.47	<5	1.39891	3.00	YES

Conclusion:

BT+WIFI supported simultaneous transmission:

WIFI ANT1+WIFI ANT2=1.40176+1.39891=2.80067

BT+2.4GWIFI ANT2=0.49918+1.39891=1.89809≤3, So passed.