

FCC ID: 2BN9M-NEOPRO-1

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.

2.4GWIFI:

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	8.226	6.65	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.503	7.08	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.421	6.95	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	7.085	5.11	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.246	5.30	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.476	5.59	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	6.988	5.00	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	7.06	5.08	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.29	5.36	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT40)	2.422	7.427	5.53	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.464	5.58	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.593	5.75	7±1	8.00	6.31	<5	1.97601	3.00	YES

2.4GHz(GFSK)

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	2.422	1.25	1.33	1±1	2.00	1.58	<5	0.49331	3.00	YES
	2.447	-0.94	0.81	-1±1	0.00	1.00	<5	0.31286	3.00	YES
	2.472	-1.4	0.72	-1±1	0.00	1.00	<5	0.31445	3.00	YES

Note: $2422\text{MHz}(\text{dbm}) = \text{dbuv}/\text{m} - 95.2 = 96.36 - 95.2 = 1.16\text{dBm}(\text{EIRP})$, so the conduct peak power $= 1.16 - (-0.09) = 1.25\text{dBm}$

$2447\text{MHz}(\text{dbm}) = \text{dbuv}/\text{m} - 95.2 = 94.17 - 95.2 = -1.03\text{dBm}(\text{EIRP})$, so the conduct peak power $= -1.03 - (-0.09) = -0.94\text{dBm}$

$2472\text{MHz}(\text{dbm}) = \text{dbuv}/\text{m} - 95.2 = 93.71 - 95.2 = -1.49\text{dBm}(\text{EIRP})$, so the conduct peak power $= -1.49 - (-0.09) = -1.4\text{dBm}$

Conclusion:

For the max result: $2.49272 \leq \text{FCC Limit } 3.0$ for 1g SAR.