

FCC ID: 2A4BG-AIRHUG01

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	-0.715	0.85	-0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	-1.124	0.77	-1±1	0.00	1.00	<5	0.31241	3.00	YES
	2.480	-2.17	0.61	-2±1	-1.00	0.79	<5	0.25018	3.00	YES

Conclusion:

For the max result : $0.39023 \leq \text{FCC Limit } 3.0$ for 1g SAR.

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	3.025	2.01	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.44	3.029	2.01	4±1	5.00	3.16	<5	0.98793	3.00	YES
	2.480	1.774	1.50	2±1	3.00	2.00	<5	0.62843	3.00	YES
Pi/4 DQPSK	2.402	2.685	1.86	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	2.771	1.89	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	1.436	1.39	2±1	3.00	2.00	<5	0.62843	3.00	YES
8DPSK	2.402	3.002	2.00	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	2.86	1.93	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	1.424	1.39	2±1	3.00	2.00	<5	0.62843	3.00	YES

Conclusion:

For the max result : $0.98793 \leq \text{FCC Limit } 3.0$ for 1g SAR.