

FCC ID: 2AHZ5N1

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.

GFSK:

Antenna Type : FPC Antenna

Antenna Gain: 1.93 dBi

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK (1M)	2.402	-7.133	0.194	-7 \pm 1	-6	0.251	<5	0.07786	3.00	YES
	2.44	-6.983	0.200	-6 \pm 1	-5	0.316	<5	0.09879	3.00	YES
	2.480	-5.274	0.297	-5 \pm 1	-4	0.398	<5	0.12539	3.00	YES
GFSK (2M)	2.402	-7.334	0.185	-7 \pm 1	-6	0.251	<5	0.07786	3.00	YES
	2.44	-5.519	0.281	-5 \pm 1	-4	0.398	<5	0.12437	3.00	YES
	2.480	-5.418	0.287	-5 \pm 1	-4	0.398	<5	0.12539	3.00	YES

Conclusion:

For the max result : $0.12539 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

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