

**FCC ID: 2AT9T-GQ008**

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  $\leq 50$  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  $\leq 7.5$  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(Left):

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	-5.38	0.29	-6±1	-5	0.32	<5	0.09802	3.00	YES
	2.441	-5.702	0.27	-6±1	-5	0.32	<5	0.09881	3.00	YES
	2.480	-6.296	0.23	-6±1	-5	0.32	<5	0.09960	3.00	YES
π/4-DQPSK	2.402	-4.673	0.34	-5±1	-4	0.40	<5	0.12340	3.00	YES
	2.441	-4.955	0.32	-5±1	-4	0.40	<5	0.12440	3.00	YES
	2.480	-5.585	0.28	-5±1	-4	0.40	<5	0.12539	3.00	YES
BLE(1M)	2.402	-3.336	0.46	-3±1	-2	0.63	<5	0.19558	3.00	YES
	2.441	-2.697	0.54	-3±1	-2	0.63	<5	0.19716	3.00	YES
	2.480	-3.118	0.49	-3±1	-2	0.63	<5	0.19873	3.00	YES
BLE(2M)	2.402	-3.205	0.48	-3±1	-2	0.63	<5	0.19558	3.00	YES
	2.441	-3.739	0.42	-3±1	-2	0.63	<5	0.19716	3.00	YES
	2.480	-3.009	0.50	-3±1	-2	0.63	<5	0.19873	3.00	YES

BT(Right):

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	-5.374	0.29	-6±1	-5	0.32	<5	0.09802	3.00	YES
	2.441	-5.747	0.27	-6±1	-5	0.32	<5	0.09881	3.00	YES
	2.480	-6.251	0.24	-6±1	-5	0.32	<5	0.09960	3.00	YES
π/4-DQPSK	2.402	-4.651	0.34	-5±1	-4	0.40	<5	0.12340	3.00	YES
	2.441	-5.049	0.31	-5±1	-4	0.40	<5	0.12440	3.00	YES
	2.480	-5.538	0.28	-5±1	-4	0.40	<5	0.12539	3.00	YES
BLE(1M)	2.402	-3.419	0.46	-3±1	-2	0.63	<5	0.19558	3.00	YES
	2.441	-2.682	0.54	-3±1	-2	0.63	<5	0.19716	3.00	YES
	2.480	-3.299	0.47	-3±1	-2	0.63	<5	0.19873	3.00	YES
BLE(2M)	2.402	-3.185	0.48	-3±1	-2	0.63	<5	0.19558	3.00	YES
	2.441	-3.578	0.44	-3±1	-2	0.63	<5	0.19716	3.00	YES
	2.480	-2.996	0.50	-3±1	-2	0.63	<5	0.19873	3.00	YES

**Conclusion:**

For the max result :  $0.19873 \leq 3.0$  for 1g SAR, SAR is not required.

*Alex*

**Signature:**

**Date:** 2022-10-20

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