

● **FCC ID: 2AVTM-TT2109**

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	5.172	3.29	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.265	3.36	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.352	2.72	5±1	6	3.98	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	5.133	3.26	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.267	3.36	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.326	2.71	5±1	6	3.98	<5	1.25388	3.00	YES
8-DPSK	2.402	5.296	3.39	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.337	3.42	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.391	2.75	5±1	6	3.98	<5	1.25388	3.00	YES

BLE: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 (1M)	2.402	5.214	3.32	5±1	6	3.98	<5	1.23400	3.00	YES
	2.440	5.312	3.40	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	4.308	2.70	5±1	6	3.98	<5	1.25388	3.00	YES
GFSK (2M)	2.402	5.213	3.32	5±1	6	3.98	<5	1.23400	3.00	YES
	2.440	5.303	3.39	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	4.293	2.69	5±1	6	3.98	<5	1.25388	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	5.222	3.33	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.31	3.40	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.386	2.75	5±1	6	3.98	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	5.198	3.31	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.283	3.38	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.354	2.73	5±1	6	3.98	<5	1.25388	3.00	YES
8-DPSK	2.402	5.231	3.34	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.373	3.45	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.439	2.78	5±1	6	3.98	<5	1.25388	3.00	YES

BLE

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 (1M)	2.402	5.207	3.32	5±1	6	3.98	<5	1.23400	3.00	YES
	2.440	5.32	3.40	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	4.316	2.70	5±1	6	3.98	<5	1.25388	3.00	YES
GFSK (2M)	2.402	5.218	3.33	5±1	6	3.98	<5	1.23400	3.00	YES
	2.44	5.276	3.37	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	4.296	2.69	5±1	6	3.98	<5	1.25388	3.00	YES

**Conclusion:**

For the max result :  $1.25388 \leq 3.0$  for 1g SAR, No SAR is required.



**Signature:**

**Date:** 2021-06-22

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