

FCC ID: 2AT9T-UBUDSINSIDE

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: 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	-2.63	0.55	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-1.91	0.64	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-0.87	0.82	0±1	1	1.26	<5	0.39651	3.00	YES
π/4-DQPSK	2.402	-2.01	0.63	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-1.23	0.75	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-2.87	0.52	-2±1	-1	0.79	<5	0.25018	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	-5.29	0.30	-5±1	-4	0.40	<5	0.12340	3.00	YES
	2.440	-5.72	0.27	-5±1	-4	0.40	<5	0.12437	3.00	YES
	2.480	-5.26	0.30	-5±1	-4	0.40	<5	0.12539	3.00	YES

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 (2M)	2.402	-5.1	0.31	-5±1	-4	0.40	<5	0.12340	3.00	YES
	2.440	-5.71	0.27	-5±1	-4	0.40	<5	0.12437	3.00	YES
	2.480	-5.08	0.31	-5±1	-4	0.40	<5	0.12539	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	-2.82	0.52	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-1.98	0.63	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-0.9	0.81	0±1	1	1.26	<5	0.39651	3.00	YES
π/4-DQPSK	2.402	-2.17	0.61	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-1.27	0.75	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-2.84	0.52	-2±1	-1	0.79	<5	0.25018	3.00	YES

BLE: 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 (1M)	2.402	-5.25	0.30	-5±1	-4	0.40	<5	0.12340	3.00	YES
	2.440	-5.67	0.27	-5±1	-4	0.40	<5	0.12437	3.00	YES
	2.480	-5.18	0.30	-5±1	-4	0.40	<5	0.12539	3.00	YES

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 (2M)	2.402	-5.22	0.30	-5±1	-4	0.40	<5	0.12340	3.00	YES
	2.440	-5.7	0.27	-5±1	-4	0.40	<5	0.12437	3.00	YES
	2.480	-5.04	0.31	-5±1	-4	0.40	<5	0.12539	3.00	YES

Conclusion:

For the max result : $0.39651 \leq 3.0$ for 1g SAR, No SAR is required.



Signature:

Date: 2022-08-12

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