

FCC ID: 2BBT5-NANORECEIVER

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 ≤ 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.

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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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.11	0.62	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-2.42	0.57	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-3.71	0.43	-3±1	-2	0.63	<5	0.19873	3.00	YES
$\pi/4$ -DQPSK	2.402	-1.77	0.67	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-0.94	0.81	-1±1	0	1.00	<5	0.31247	3.00	YES
	2.480	-2.14	0.61	-2±1	-1	0.79	<5	0.25018	3.00	YES
8-DPSK	2.402	-1.29	0.74	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-2.85	0.52	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-1.69	0.68	-1±1	0	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : $0.31496 \leq 3.0$ for 1g SAR, SAR is not required.

Signature:



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