

FCC ID: Z63-AUSD001

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(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:

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	5.50	3.55	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.26	4.23	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	4.96	3.13	5±1	6	3.98	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	5.43	3.49	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.21	4.18	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	4.92	3.10	5±1	6	3.98	<5	1.25388	3.00	YES
8-DPSK	2.402	5.49	3.54	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.24	4.21	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	4.91	3.10	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	5.51	3.56	5±1	6	3.98	<5	1.23400	3.00	YES
	2.440	5.51	3.56	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	4.97	3.14	5±1	6	3.98	<5	1.25388	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	5.44	3.50	5±1	6	3.98	<5	1.23400	3.00	YES
	2.440	5.43	3.49	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	4.90	3.09	5±1	6	3.98	<5	1.25388	3.00	YES

Conclusion:

For the max result : $1.56608 \leq 3.0$ for 1g SAR, No SAR is required.

Signature:

Date: 2021-05-31

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