

FCC ID: 2AZUR-S1

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.

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	-1.218	0.76	-1.5±1	-0.5	0.89	<5	0.27626	3.00	YES
	2.441	-2.074	0.62	-1.5±1	-0.5	0.89	<5	0.27849	3.00	YES
	2.480	-0.598	0.87	-1.5±1	-0.5	0.89	<5	0.28071	3.00	YES
π/4-DQPSK	2.402	-1.939	0.64	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-3.763	0.42	-3±1	-2	0.63	<5	0.19716	3.00	YES
	2.480	-2.265	0.59	-2±1	-1	0.79	<5	0.25018	3.00	YES
8-DQPSK	2.402	-2.356	0.58	-2.5±1	-1.5	0.71	<5	0.21944	3.00	YES
	2.441	-3.473	0.45	-2.5±1	-1.5	0.71	<5	0.22121	3.00	YES
	2.480	-2.587	0.55	-2.5±1	-1.5	0.71	<5	0.22297	3.00	YES
BLE 1M	2.402	4.874	3.07	3±1	4	2.51	<5	0.77860	3.00	YES
	2.44	4.875	3.07	3±1	4	2.51	<5	0.78474	3.00	YES
	2.480	5.482	3.53	3±1	4	2.51	<5	0.79114	3.00	YES
BLE 2M	2.402	5.081	3.22	5±1	6	3.98	<5	1.23400	3.00	YES
	2.44	5.329	3.41	5±1	6	3.98	<5	1.24373	3.00	YES
	2.480	5.629	3.66	5±1	6	3.98	<5	1.25388	3.00	YES

Conclusion:

For the max result : 1.25388 ≤ 3.0 for 1g SAR, SAR is not required.

Signature:

Date: 2022-10-25

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