

FCC ID: 2BELD-OWS24BNB

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.

EDR:

Left ear:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	6.538	4.51	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.931	4.93	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	6.58	4.55	6±1	7.00	5.01	<5	1.57854	3.00	YES
π /4DQPSK	2.402	6.487	4.45	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.879	4.87	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	6.606	4.58	6±1	7.00	5.01	<5	1.57854	3.00	YES
8DQPSK	2.402	6.441	4.41	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.867	4.86	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	6.532	4.50	6±1	7.00	5.01	<5	1.57854	3.00	YES

Right ear:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.558	3.60	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.331	3.41	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	5.221	3.33	5±1	6.00	3.98	<5	1.25388	3.00	YES
π /4DQPSK	2.402	6.135	4.11	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	5.982	3.96	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	5.873	3.87	5±1	6.00	3.98	<5	1.25388	3.00	YES
8DQPSK	2.402	6.445	4.41	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.255	4.22	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	6.114	4.09	6±1	7.00	5.01	<5	1.57854	3.00	YES

BLE:

Left ear:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	6.476	4.44	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.44	6.461	4.43	6±1	7.00	5.01	<5	1.56576	3.00	YES
	2.480	6.217	4.19	6±1	7.00	5.01	<5	1.57854	3.00	YES

Right ear:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.08	1.61	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.44	1.993	1.58	1±1	2.00	1.58	<5	0.49514	3.00	YES
	2.480	1.602	1.45	1±1	2.00	1.58	<5	0.49918	3.00	YES

Conclusion:

For the max result : 1.57854 ≤ FCC Limit 3.0 for 1g SAR.