

FCC ID:2BFGW-YZ6B

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:

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	-5.595	0.28	-5 $\pm$ 1	-4.00	0.40	<5	0.12340	3.00	YES
	2.441	-4.932	0.32	-4 $\pm$ 1	-3.00	0.50	<5	0.15661	3.00	YES
	2.480	-4.389	0.36	-4 $\pm$ 1	-3.00	0.50	<5	0.15785	3.00	YES
π /4DQPSK	2.402	-4.696	0.34	-4 $\pm$ 1	-3.00	0.50	<5	0.15535	3.00	YES
	2.441	-4.098	0.39	-4 $\pm$ 1	-3.00	0.50	<5	0.15661	3.00	YES
	2.480	-3.511	0.45	-3 $\pm$ 1	-2.00	0.63	<5	0.19873	3.00	YES
8DQPSK	2.402	-4.319	0.37	-4 $\pm$ 1	-3.00	0.50	<5	0.15535	3.00	YES
	2.441	-3.581	0.44	-3 $\pm$ 1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-3.154	0.48	-3 $\pm$ 1	-2.00	0.63	<5	0.19873	3.00	YES

Conclusion:

BT+ Wireless charging supported simultaneous transmission:

BT+ Wireless charging: $\Sigma \text{MPE Ratio} = 0.19873/3 + 0.36/1.63 = 0.2871 \leq \text{FCC Limit } 3.0$ for 1g SAR.