

**FCC ID:2BRUE-S300**

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  $\leq 7.5$  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	1.947	1.57	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	2.078	1.61	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	1.546	1.43	1±1	2.00	1.58	<5	0.49918	3.00	YES
π/4DQPSK	2.402	2.708	1.87	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.76	1.89	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.208	1.66	2±1	3.00	2.00	<5	0.62843	3.00	YES
8DQPSK	2.402	2.934	1.97	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	3.047	2.02	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.372	1.73	2±1	3.00	2.00	<5	0.62843	3.00	YES

**Conclusion:**

EDR+ Wireless charging:  $\Sigma \text{MPE Ratio} = 0.78490/3 + 0.86/1.63 = 0.7892 \leq 3 \leq \text{FCC Limit } 3.0$  for 1g SAR.