

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.

BT:

Test Mode	Channel Frequency (GHz)	Conducted power (dBm)	Conducted 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	-0.28	0.94	0+1	1.00	1.26	<5	0.323	3.00	YES
	2.441	0.46	1.11	0+1	1.00	1.26	<5	0.386	3.00	YES
	2.480	0.55	1.14	0+1	1.00	1.26	<5	0.397	3.00	YES
$\pi/4$ -DQPSK	2.402	0.56	1.14	0+1	1.00	1.26	<5	0.392	3.00	YES
	2.441	1.23	1.33	1+1	2.00	1.58	<5	0.461	3.00	YES
	2.480	1.38	1.37	1+1	2.00	1.58	<5	0.481	3.00	YES
8-DPSK	2.402	-0.46	0.90	0+1	1.00	1.26	<5	0.310	3.00	YES
	2.441	0.36	1.09	0+1	1.00	1.26	<5	0.377	3.00	YES
	2.480	0.40	1.10	0+1	1.00	1.26	<5	0.384	3.00	YES

BLE:

Test Mode	Channel Frequency (GHz)	Conducted power (dBm)	Conducted 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
BLE(1M)	2.402	-2.93	0.51	0+1	1.00	1.26	<5	0.175	3.00	YES
	2.441	-2.12	0.61	0+1	1.00	1.26	<5	0.213	3.00	YES
	2.480	-1.92	0.64	0+1	1.00	1.26	<5	0.225	3.00	YES
BLE(2M)	2.402	-2.82	0.52	0+1	1.00	1.26	<5	0.180	3.00	YES
	2.441	-2.03	0.63	0+1	1.00	1.26	<5	0.218	3.00	YES
	2.480	-1.84	0.65	0+1	1.00	1.26	<5	0.229	3.00	YES

**Conclusion:**

For the max result :  $0.481 \leq$  FCC Limit 3.0 for 1g SAR.