

FCC ID: 2BD85-DG03

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.

BT:

Operation Frequency	2402MHz to 2480MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels	79
Antenna Gain	1.7dBi
Antenna Type	Chip Antenna

Modulation	Channel Freq. (GHz)	Max Conducted Power (dBm)	Max tune-up power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	Result
Bluetooth (1-DH5)	2.402	-6.16	-5	1.7	-3.3	0.47	<5	0.14498	3.00	Pass
	2.441	-5.44	-5	1.7	-3.3	0.47	<5	0.14616	3.00	Pass
	2.480	-7.15	-6	1.7	-4.3	0.37	<5	0.11702	3.00	Pass
Bluetooth (2-DH5)	2.402	-6.34	-5	1.7	-3.3	0.47	<5	0.14498	3.00	Pass
	2.441	-4.96	-4	1.7	-2.3	0.59	<5	0.18400	3.00	Pass
	2.480	-6.51	-5	1.7	-3.3	0.47	<5	0.14732	3.00	Pass
Bluetooth (3-DH5)	2.402	-5.24	-4	1.7	-2.3	0.59	<5	0.18252	3.00	Pass
	2.441	-4.64	-4	1.7	-2.3	0.59	<5	0.18400	3.00	Pass
	2.480	-6.16	-5	1.7	-3.3	0.47	<5	0.14732	3.00	Pass

Conclusion:

For the max result: $0.18400 \leq 3.0$ for 1g SAR, SAR is not required.

Signature:

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