

FCC ID: PXX-LF1500

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 and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

We used a distance 5mm to calculate

Maximum measured transmitter power:

BT DSS:

Transmit Frequency (GHz)	Mode	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
2.402	GFSK	0.63	0±1	1.0	0.3902	3.0
2.441	GFSK	0.26	0±1	1.0	0.3934	3.0
2.480	GFSK	-0.59	0±1	1.0	0.3965	3.0
2.402	1/4Π-DQPSK	0.50	0±1	1.0	0.3902	3.0
2.441	1/4Π-DQPSK	0.14	0±1	1.0	0.3934	3.0
2.480	1/4Π-DQPSK	-0.68	0±1	1.0	0.3965	3.0
2.402	8DPSK	0.11	0±1	1.0	0.3902	3.0
2.441	8DPSK	0.13	0±1	1.0	0.3934	3.0
2.480	8DPSK	-1.05	-1±1	0.0	0.3150	3.0

Conclusion:

For the max result : 0.3965 < 3.0 for 1-g SAR extremity SAR, No SAR is required.

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