

FCC ID: EMOIBT9

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 V05

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ 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;

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. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

BT DSS:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	2.141	2dBm to 4dBm	0.78	3.0
2.441	GFSK	3.839	2dBm to 4dBm	0.78	3.0
2.480	GFSK	2.054	2dBm to 4dBm	0.78	3.0
2.402	$\pi/4$ -DQPSK	0.086	0dBm to 2dBm	0.49	3.0
2.441	$\pi/4$ -DQPSK	2.119	2dBm to 4dBm	0.78	3.0
2.480	$\pi/4$ -DQPSK	0.058	0dBm to 2dBm	0.49	3.0
2.402	8DPSK	0.619	0dBm to 2dBm	0.49	3.0
2.441	8DPSK	2.421	2dBm to 4dBm	0.78	3.0
2.480	8DPSK	0.440	0dBm to 2dBm	0.49	3.0

Conclusion:

For the max result : $0.78 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature:



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