

FCC ID: S7JNXW101QC232

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:

802.11b/g/n HT20/n HT40:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.412	11b	9.66	7.7dBm-9.7dBm	2.899	3.0
2.437	11b	9.67	7.7dBm-9.7dBm	2.912	3.0
2.462	11b	9.63	7.7dBm-9.7dBm	2.929	3.0
2.412	11g	9.18	7.7dBm-9.7dBm	2.899	3.0
2.437	11g	9.28	7.7dBm-9.7dBm	2.912	3.0
2.462	11g	9.41	7.7dBm-9.7dBm	2.929	3.0
2.412	11n HT20	8.99	7.7dBm-9.7dBm	2.899	3.0
2.437	11n HT20	8.87	7.7dBm-9.7dBm	2.912	3.0
2.462	11n HT20	9.03	7.7dBm-9.7dBm	2.929	3.0
2.422	11n HT40	8.78	7dBm-9dBm	2.472	3.0
2.437	11n HT40	8.65	7dBm-9dBm	2.478	3.0
2.452	11n HT40	8.91	7dBm-9dBm	2.488	3.0

BT DTS:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	5.588	4dBm-6dBm	1.23	3.0
2.440	GFSK	5.545	4dBm-6dBm	1.24	3.0
2.480	GFSK	4.942	4dBm-6dBm	1.25	3.0

Conclusion:

For the max result : $2.929 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature: 

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