

FCC ID: S7JNX16A10132S

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:

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

$[f(\text{GHz})] \quad 3.0 \text{ for 1-g SAR and } 7.5 \text{ for 10-g extremity SAR, where}$

$f(\text{GHz})$ 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. 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	9.79	7.8dBm-9.8dBm	2.96	3.0
2.437	11b	9.65	7.7dBm-9.7dBm	2.91	3.0
2.462	11b	9.61	7.7dBm-9.7dBm	2.94	3.0
2.412	11g	8.94	7.8dBm-9.8dBm	2.96	3.0
2.437	11g	9.12	7.7dBm-9.7dBm	2.91	3.0
2.462	11g	9.04	7.7dBm-9.7dBm	2.94	3.0
2.412	11n HT20	9.01	7.8dBm-9.8dBm	2.96	3.0
2.437	11n HT20	8.96	7.7dBm-9.7dBm	2.91	3.0
2.462	11n HT20	9.07	7.7dBm-9.7dBm	2.94	3.0
2.422	11n HT40	8.57	7.8dBm-9.8dBm	2.96	3.0
2.437	11n HT40	8.55	7.7dBm-9.7dBm	2.91	3.0
2.452	11n HT40	8.49	7.7dBm-9.7dBm	2.94	3.0

BT DSS:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	-0.624	-1dBm to 1 dBm	0.39	3.0
2.441	GFSK	-0.295	-1dBm to 1 dBm	0.39	3.0
2.480	GFSK	-0.233	-1dBm to 1 dBm	0.40	3.0
2.402	/4 -DQPSK	-0.461	-1dBm to 1 dBm	0.39	3.0
2.441	/4-DQPSK	-0.198	-1dBm to 1 dBm	0.39	3.0
2.480	/4-DQPSK	-0.133	-1dBm to 1 dBm	0.40	3.0
2.402	8DPSK	-0.007	-1dBm to 1 dBm	0.39	3.0
2.441	8DPSK	0.308	-1dBm to 1 dBm	0.39	3.0
2.480	8DPSK	0.362	-1dBm to 1 dBm	0.40	3.0

BT DTS:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	3.25	2dBm-4dBm	0.78	3.0
2.440	GFSK	3.24	2dBm-4dBm	0.78	3.0
2.480	GFSK	3.22	2dBm-4dBm	0.79	3.0

Conclusion:

For the max result : 2.96 3.0 for 1-g SAR extremity SAR, No SAR is required.

Signature: 

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