

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;

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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:

Modulation	Channel Freq. (MHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Result calculation	1g SAR
GFSK	2.402	0.5	1.12	1±1	2.00	1.58	0.49127	3.00
	2.441	1.36	1.37	1±1	2.00	1.58	0.49483	3.00
	2.480	1.26	1.34	1±1	2.00	1.58	0.49918	3.00
$\pi/4$ -DQPSK	2.402	1.83	1.52	2±1	3.00	2.00	0.61847	3.00
	2.441	2.67	1.85	2±1	3.00	2.00	0.62347	3.00
	2.480	2.55	1.80	2±1	3.00	2.00	0.62843	3.00
8DPSK	2.402	2.12	1.63	2±1	3.00	2.00	0.61847	3.00
	2.441	3	2.00	2±1	3.00	2.00	0.62347	3.00
	2.480	2.84	1.92	2±1	3.00	2.00	0.62843	3.00

BLE:

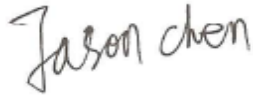
Modulation	Channel Freq. (MHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Result calculation	1g SAR
GFSK	2.402	0.25	1.06	1±1	2.00	1.58	0.49127	3.00
	2.44	1.09	1.29	1±1	2.00	1.58	0.49483	3.00
	2.480	1.04	1.27	1±1	2.00	1.58	0.49918	3.00

WIFI

Modulation	Channel Freq. (MHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Result calculation	1g SAR
802.11b	2412	9.3	8.51	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.1	8.13	8.5±1	9.50	8.91	2.78264	3.00
	2462	9.1	8.13	8.5±1	9.50	8.91	2.80709	3.00
802.11g	2412	8.3	6.76	8±1	9.00	7.94	2.46216	3.00
	2437	8.4	6.92	8±1	9.00	7.94	2.48207	3.00
	2462	8.3	6.76	8±1	9.00	7.94	2.50182	3.00
802.11n HT20	2412	7.7	5.89	7±1	8.00	6.31	1.95576	3.00
	2437	7.4	5.50	7±1	8.00	6.31	1.97158	3.00
	2462	7.3	5.37	7±1	8.00	6.31	1.98727	3.00
802.11n HT40	2422	7.4	5.50	7±1	8.00	6.31	1.98727	3.00
	2437	7.2	5.25	7±1	8.00	6.31	1.98727	3.00
	2452	7.4	5.50	7±1	8.00	6.31	1.98727	3.00

Conclusion:

For the max result : $2.80709 \leq 3.0$ for 1-g SAR, No SAR is required.

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