

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	5.58	3.61	5 \pm 1	6.00	3.98	1.23400	3.00
	2.441	5.34	3.42	5 \pm 1	6.00	3.98	1.24296	3.00
	2.480	5.95	3.94	5 \pm 1	6.00	3.98	1.25388	3.00
$\pi/4$ -DQPSK	2.402	3.28	2.13	3 \pm 1	4.00	2.51	0.77860	3.00
	2.441	3.91	2.46	3 \pm 1	4.00	2.51	0.78490	3.00
	2.480	3.7	2.34	3 \pm 1	4.00	2.51	0.79114	3.00
8DPSK	2.402	3.67	2.33	3 \pm 1	4.00	2.51	0.77860	3.00
	2.441	3.66	2.32	3 \pm 1	4.00	2.51	0.78490	3.00
	2.480	3.39	2.18	3 \pm 1	4.00	2.51	0.79114	3.00

BLE:

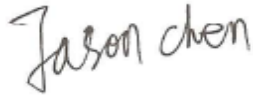
Modulation	Channel Freq. (MHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Result calculation	1g SAR
GFSK	2.402	6.82	4.81	7 \pm 1	8.00	6.31	1.95576	3.00
	2.44	7.48	5.60	7 \pm 1	8.00	6.31	1.96996	3.00
	2.480	7.28	5.35	7 \pm 1	8.00	6.31	1.98727	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	9.2	8.32	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	9.2	8.32	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.4	8.71	8.5±1	9.50	8.91	2.78493	3.00
	2462	9.1	8.13	8.5±1	9.50	8.91	2.80709	3.00
802.11n HT20	2412	9.4	8.71	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.2	8.32	8.5±1	9.50	8.91	2.78493	3.00
	2462	9.3	8.51	8.5±1	9.50	8.91	2.80709	3.00
802.11n HT40	2422	9.1	8.13	8.5±1	9.50	8.91	2.80709	3.00
	2437	9.2	8.32	8.5±1	9.50	8.91	2.80709	3.00
	2452	8.9	7.76	8.5±1	9.50	8.91	2.80709	3.00

Conclusion:

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

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