

FCC ID:2AAWC-769TPC

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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 calculated.

Bluetooth DSS:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.402	GFSK	6.86	6±1	7	1.5535	3
2.441		6.56	6±1	7	1.5661	3
2.48		5.20	6±1	7	1.5785	3
2.402	$\pi/4$ -DQPSK	8.09	8±1	9	2.4622	3
2.441		7.61	8±1	9	2.4821	3
2.48		7.51	8±1	9	2.5018	3
2.402	8DPSK	8.18	8±1	9	2.4622	3
2.441		7.76	8±1	9	2.4821	3
2.48		7.71	8±1	9	2.5018	3

Bluetooth DTS:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.402	GFSK	4.11	4±1	5	0.9802	3
2.440		3.72	4±1	5	0.9879	3
2.48		3.26	4±1	5	0.9960	3

Maximum measured transmitter power:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.412	802.11b	9.26	9±1	10	2.9663	3
2.437		9.12	9±1	10	2.9817	3
2.462		9.18	9±1	10	2.9969	3
2.412	802.11g	8.06	8±1	9	2.4673	3
2.437		8.05	8±1	9	2.48	3
2.462		8.29	8±1	9	2.4927	3
2.412	802.11n HT20	7.81	7±1	8	2.7683	3
2.437		7.66	7±1	8	2.7826	3
2.462		7.03	7±1	8	2.7969	3
2.422	802.11n HT40	6.46	6±1	7	1.56	3
2.437		6.71	6±1	7	1.5648	3
2.452		6.38	6±1	7	1.5696	3

Conclusion:

For the max result : $2.9969 \leq 3.0$ for 1g SAR, No SAR is required.

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Signature:

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