

FCC ID: 2AAWC-MAXIMUSIII

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 SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

BT:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	3.047	2.02	3 \pm 1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	2.953	1.97	3 \pm 1	4.00	2.51	<5	0.78426	3.00	YES
	2.480	2.961	1.98	3 \pm 1	4.00	2.51	<5	0.79114	3.00	YES
$\pi/4$ -DQPSK	2.402	2.800	1.91	2 \pm 1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.685	1.86	2 \pm 1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.666	1.85	2 \pm 1	3.00	2.00	<5	0.62843	3.00	YES
8DPSK	2.402	2.903	1.95	2 \pm 1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.824	1.92	2 \pm 1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.830	1.92	2 \pm 1	3.00	2.00	<5	0.62843	3.00	YES

BLE:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-4.18	0.38	-5 \pm 1	-4.00	0.40	<5	0.12340	3.00	YES
	2.44	-4.56	0.35	-5 \pm 1	-4.00	0.40	<5	0.12437	3.00	YES
	2.480	-5.71	0.27	-5 \pm 1	-4.00	0.40	<5	0.12539	3.00	YES

WIFI:

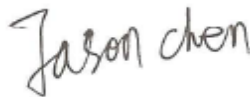
Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	8.90	7.76	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.50	7.08	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.70	7.41	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	8.10	6.46	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.20	6.61	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.00	6.31	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n20	2.412	7.30	5.37	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.20	5.25	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.40	5.50	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n40	2.422	7.70	5.89	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.50	5.62	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.80	6.03	7±1	8.00	6.31	<5	1.97601	3.00	YES

Statement:

The BT and WIFI is the same ANT, it is non-simultaneous transmissions, so the WIFI calculation is max result.

Conclusion:

For the max result : 2.49272W/Kg ≤ FCC Limit 3.0W/Kg for 1g SAR.


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