

FCC ID: 2AQOO-HERO9

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	4.39	2.75	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	3.68	2.33	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	2.84	1.92	2±1	3	2.00	<5	0.62843	3.00	YES
π/4-DQPSK	2.402	3.16	2.07	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	2.84	1.92	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	2.04	1.60	2±1	3	2.00	<5	0.62843	3.00	YES
8-DPSK	2.402	3.51	2.24	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	3.09	2.04	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	2.28	1.69	2±1	3	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	3.35	2.16	3±1	4	2.51	<5	0.77860	3.00	YES
	2.441	3.07	2.03	3±1	4	2.51	<5	0.78490	3.00	YES
	2.480	2.51	1.78	3±1	4	2.51	<5	0.79114	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	8.60	7.24	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	8.80	7.59	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.20	8.32	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11g	2.412	8.40	6.92	8±1	9	7.94	<5	2.46728	3.00	YES
	2.437	8.60	7.24	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	8.90	7.76	8±1	9	7.94	<5	2.49272	3.00	YES
802.11n HT20	2.412	8.20	6.61	8±1	9	7.94	<5	2.46728	3.00	YES
	2.437	8.60	7.24	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	8.90	7.76	8±1	9	7.94	<5	2.49272	3.00	YES
802.11n HT40	2.422	8.50	7.08	8±1	9	7.94	<5	2.47239	3.00	YES
	2.437	8.60	7.24	8±1	9	7.94	<5	2.48003	3.00	YES
	2.452	8.80	7.59	8±1	9	7.94	<5	2.48766	3.00	YES

Conclusion:

For the max result : $2.79688 \text{ W/Kg} \leq 3.0$, compliance with FCC's RF Exposure



Signature:

Date: 2019-01-24

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