

**FCC ID: M7CMG10Q16**

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  $\leq 50$  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  $\leq 7.5$  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)	Conduct ed power (dBm)	Conducte d 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	4.465	2.80	4±1	5	3.16	<5	0.98020	3.00	YES
	2.441	4.508	2.82	4±1	5	3.16	<5	0.98813	3.00	YES
	2.480	4.656	2.92	4±1	5	3.16	<5	0.99599	3.00	YES
π/4-DQPSK	2.402	5.67	3.69	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.862	3.86	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.864	3.86	5±1	6	3.98	<5	1.25388	3.00	YES
8-DQPSK	2.402	6.249	4.22	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.321	4.29	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	6.316	4.28	6±1	7	5.01	<5	1.57854	3.00	YES
BLE	2.402	4.845	3.05	4.5±1	5.5	3.55	<5	1.09981	3.00	YES
	2.441	3.891	2.45	4.5±1	5.5	3.55	<5	1.10870	3.00	YES
	2.480	5.005	3.17	4.5±1	5.5	3.55	<5	1.11752	3.00	YES

WIFI2.4G

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d 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	9.49	8.89	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.38	8.67	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.47	8.85	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11g	2.412	9.39	8.69	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.48	8.87	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.38	8.67	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n20	2.412	9.24	8.39	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.15	8.22	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.09	8.11	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n40	2.422	8.98	7.91	8±1	9	7.94	<5	2.47239	3.00	YES
	2.437	8.94	7.83	8±1	9	7.94	<5	2.48003	3.00	YES
	2.452	8.59	7.23	8±1	9	7.94	<5	2.48766	3.00	YES

**Conclusion:**

For the max result :  $2.79688 \leq 3.0$  for 1g SAR, SAR is not required.

*Alex*

**Signature:**

**Date:** 2022-04-07

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