

FCC ID: 2ATGH-100B

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.

BR+EDR:

Antenna Type : Metal Antenna

Antenna Gain: Right: 3.27dBi; Left: 3.27dBi

For Left:

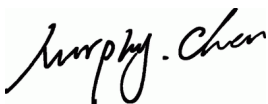
Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	8.147	6.527	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.769	7.532	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.928	7.813	8±1	9	7.943	<5	2.50182	3.00	YES
$\pi/4$ -DQPSK	2.402	8.155	6.539	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.772	7.537	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.933	7.822	8±1	9	7.943	<5	2.50182	3.00	YES
8DPSK	2.402	8.180	6.577	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.780	7.551	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.939	7.832	8±1	9	7.943	<5	2.50182	3.00	YES

For Right:

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	7.213	5.264	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.199	6.605	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.636	7.305	8±1	9	7.943	<5	2.50182	3.00	YES
$\pi/4$ -DQPSK	2.402	7.219	5.271	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.210	6.622	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.650	7.328	8±1	9	7.943	<5	2.50182	3.00	YES
8DPSK	2.402	7.240	5.297	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.230	6.653	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.660	7.345	8±1	9	7.943	<5	2.50182	3.00	YES

Conclusion:

For the max result: $2.50182 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature: 

Date: 2019/5/20

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