

FCC ID: 2AB5T-SE9

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:

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

- $f(\text{GHz})$ 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

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

BR+EDR/BLE:

Antenna Type: PCB Antenna

Antenna Gain: 1 dBi

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	7.75	5.957	7±1	8.0	6.310	<5	1.95576	3.00	YES
	2.441	7.47	5.585	7±1	8.0	6.310	<5	1.97158	3.00	YES
	2.480	7.48	5.598	7±1	8.0	6.310	<5	1.98727	3.00	YES
$\pi/4$ -DQPSK	2.402	8.2	6.607	8±1	9.0	7.943	<5	2.46216	3.00	YES
	2.441	8.17	6.561	8±1	9.0	7.943	<5	2.48207	3.00	YES
	2.480	7.86	6.109	8±1	9.0	7.943	<5	2.50182	3.00	YES
8DPSK	2.402	8.18	6.577	8±1	9.0	7.943	<5	2.46216	3.00	YES
	2.441	8.19	6.592	8±1	9.0	7.943	<5	2.48207	3.00	YES
	2.480	7.81	6.039	8±1	9.0	7.943	<5	2.50182	3.00	YES
GFSK	2.402	5.52	3.565	5±1	6.0	3.981	<5	1.23400	3.00	YES
	2.44	5.98	3.963	5±1	6.0	3.981	<5	1.24373	3.00	YES
	2.480	5.32	3.404	5±1	6.0	3.981	<5	1.25388	3.00	YES

Conclusion:

For the max result : $0.39651 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

Date: 2020-11-18

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