

FCC ID: 2A5RW-R609

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.

EDR:

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	4.753	2.99	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	4.702	2.95	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	3.811	2.40	4±1	5.00	3.16	<5	0.99599	3.00	YES
π /4DQPSK	2.402	4.712	2.96	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	4.635	2.91	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	3.746	2.37	4±1	5.00	3.16	<5	0.99599	3.00	YES

Conclusion:

For the max result : $1.24398 \leq \text{FCC Limit } 3.0$ for 1g SAR.

BLE:

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	-2.891	0.51	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.44	-2.603	0.55	-2±1	-1.00	0.79	<5	0.24816	3.00	YES
	2.480	-3.663	0.43	-3±1	-2.00	0.63	<5	0.19873	3.00	YES

Conclusion:

For the max result : $0.24816 \leq \text{FCC Limit } 3.0$ for 1g SAR.

Note" the device could not support transmit with BT LE and BT EDR simultaneously;