

**FCC ID: 2BAUI-GBT01**

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.

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	1.802	1.51	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	2.232	1.67	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.124	1.63	2±1	3.00	2.00	<5	0.62843	3.00	YES
π/4DQPSK	2.402	2.5	1.78	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.991	1.99	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.85	1.93	2±1	3.00	2.00	<5	0.62843	3.00	YES

2.4GHz:

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	2.403	6.58	4.55	6±1	7.00	5.01	<5	1.55384	3.00	YES

Note: dbm=dbuv/m-95.2=104.16-95.2=8.96dBm(ERP), so the conduct peak power=8.96-2.38=6.58dBm

**Conclusion:**

For the max result :  $1.55384 \leq$  FCC Limit 3.0 for 1g SAR.