FCC ID: 2AK6DVTK-1000

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:

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

- f(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.

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-1.516	0.71	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.44	-0.889	0.81	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-0.252	0.94	0±1	1.00	1.26	<5	0.39651	3.00	YES

2.4GHz:

Modulatior	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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	8.292	6.75	8±1	9.00	7.94	<5	2.46216	3.00	YES

Note:dbm=dbuv/m-95.2=103.83-95.2=8.63dBm(ERP), so the conduct peak power=8.63-0.338=8.292dBm

Conclusion:

For the max result : 2.46216≤ FCC Limit 3.0 for 1g SAR.