

**FCC ID: 2AR9K-E-1600**

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.

Antenna Type : PCB Antenna

Antenna Gain: -2.1 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	-5.28	0.296	-5.5±1	-4.5	0.355	<5	0.10998	3.00	YES
	2.440	-5.46	0.284	-5.5±1	-4.5	0.355	<5	0.11085	3.00	YES
	2.480	-6.12	0.244	-5.5±1	-4.5	0.355	<5	0.11175	3.00	YES

**Conclusion:**

For the max result :  $0.11175 \leq 3.0$  , compliance with FCC's RF Exposure

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Signature:

Date: 2019-01-24

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