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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHZ)] ≤ 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.

SRD 2.4G

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	SAR Exclusion threshold	SAR test exclusion
	2.402	-4.84	0.33	-5±1	-4	0.40	<5	0.12340	3.00	YES
GFSK	2.440	-5.12	0.31	-5±1	-4	0.40	<5	0.12437	3.00	YES
	2.480	-5.22	0.30	-5±1	-4	0.40	<5	0.12539	3.00	YES

Conclusion:

For the max result : 0.12539 ≤ 3.0 for 1g SAR, SAR is not required.

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