

**FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE****Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

1.  $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test Exclusion.

**Test Result:****For worst case:**

Mode	Frequency (MHz)	Maximum power		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
SRD	2402-2480	-7.89	0.16	5	0.05	3.0	Yes

Note: Use the highest e-field strength (87.31dBuV/m@3m) for the evaluation

$E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2$  for distance 3m  
so the  $\text{EIRP} = 87.31 \text{dBuV/m} - 95.2 = -7.89 \text{dBm}$

**Result: No Standalone SAR test is required**