

## www.tuv.com Appendix 10

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## **SAR Test Reduction and Exclusion**

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:

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}$  (GHz)]  $\leq$  3.0 for 1-g SAR and  $\leq$  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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 of 447498 D01 General RF Exposure Guidance v05r02 is applied to determine SAR test exclusion.

Note: Minimum test separation distance from antenna to outer enclosure is found to be 9mm.

## Calculations:

- **♦** f (GHz) = 2.480GHz
- **❖** Power = 0.042mW
- ❖ Minimum test separation distance = 9mm

 $[(0.042\text{mW}) / (9\text{mm})] \cdot [\sqrt{(2.480)}] = 0.0$ 

**Limit:** should be  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR

**Note:** The result is rounded to one decimal place for comparison. The Operating frequency at which the maximum RF output power was observed is used for above calculation.