

**4.3. General SAR test exclusion guidance**

4.3.1. Standalone SAR test exclusion considerations

a) For 100 MHz to 6 GHz and *test separation distances*  $\leq$  50 mm, the 1-g and 10-g *SAR test exclusion thresholds* are determined by the following:

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

$f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz

$$P_{\text{max}} = 0.442 \text{ mW}$$

$$F = 2.402 \text{ GHz}$$

Exclusion analysis

$$(0.442/5) \times \text{SQRT}(2.402) = 0.14 << 7.5 \text{ for extremity}$$