



RADIO FREQUENCY EXPOSURE

According to KDB 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances

≤ 50 mm are determined by:

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

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Worse case is as below: [Output power is **0.25dBm** (**1.06mW**) at **2480MHz**]

According to the formula, calculate the EIRP test result:

$$[(\text{max. power of channel including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$(1.06\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480(\text{GHz})}] = \mathbf{0.33} < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required

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