

RF Exposure evaluation

FCC ID: 2AU8G-UC1901

According to 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:

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

$\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

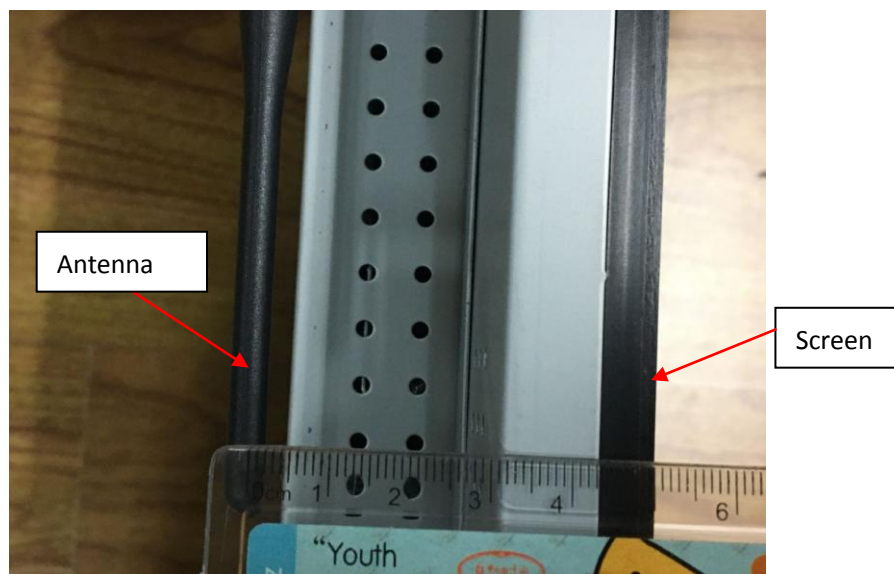
$f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

The result is rounded to one decimal place for comparison

Extremity condition:

The minimum separation distance is 50 mm:



For band 2

$p_t = 23.69 \text{ dBm} = 233.9 \text{ mW}$ at 1860 MHz

So $(233.9 \text{ mW} / 50 \text{ mm}) \times \sqrt{1.86 \text{ GHz}} = 6.38 < 7.5$

For band 4

$p_t = 23.02 \text{ dBm} = 200.4 \text{ mW}$ at 1710.7 MHz

So $(200.4 \text{ mW} / 50 \text{ mm}) \times \sqrt{1.7107 \text{ GHz}} = 5.24 < 7.5$

For band 7

$p_t = 23.34 \text{ dBm} = 215.8 \text{ mW}$ at 2535 MHz

So $(215.8 \text{ mW} / 50 \text{ mm}) \times \sqrt{2.535 \text{ GHz}} = 6.87 < 7.5$

For band 12

$p_t = 23.47 \text{ dBm} = 222.3 \text{ mW}$ at 699.7 MHz

So $(222.3 \text{ mW} / 50 \text{ mm}) \times \sqrt{0.6997 \text{ GHz}} = 3.72 < 7.5$

Then SAR evaluation is not required