

MPE Calculations

FCC ID: 2AIXMY-01

FCC Requirement

According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05R02

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] \cdot \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 3.0$$
 for 1-g SAR

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] \cdot \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 7.5.0$$
 for 10-g SAR

Calculation:

The maximum power is 1.249mW @2.480GHz

Separation Distance is 5mm

For 1-g SAR Result: $(1.249\text{mW} / 5\text{mm}) \cdot \left[\sqrt{2.480(\text{GHz})} \right] = 0.393 < 3.0$ for 1-g SAR

So standalone SAR measurements are not required.