

MPE Calculations

[FCC ID: 2AHR7-BRS-2002](#)

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:

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

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

Calculation:

The maximum power is 1.276mW @2.480GHz

Separation Distance is 5mm

For 1-g SAR Result: $(1.276\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.402 < 3.0$ for 1-g SAR

So standalone SAR measurements are not required.