

Maximum Permissible Exposure Evaluation

Per KDB 447498 D01 v06, simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0 .

The combination of highest simultaneous transmissions on the device are:

2.412 GHz: 112.1 dBuV/m @ 3m = 48.65 mW EIRP

24.125 GHz: 109.3 dBuV/m @ 3m = 25.53 mW EIRP

$$\frac{48.65}{4 \times \pi \times 20^2} = 0.010 \text{ mW cm}^{-2}$$

$$\frac{25.53}{4 \times \pi \times 20^2} = 0.005 \text{ mW cm}^{-2}$$

The sum of the MPE ratios for all simultaneous transmitting antennas:

$$0.010 + 0.005 = 0.015$$

As the sum of MPE ratios for all simultaneous transmitting antennas is ≤ 1.0 , simultaneous transmission MPE test exclusion will be applied.