

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 transmissions on the device are:

DECT: 147.9 mW (Peak EIRP)
GSM850: 4466 mW * (Peak EIRP)

* - highest antenna gain used 4dBi as per client antenna declaration.

$$\frac{147.9}{4 \times \pi \times 20^2} = 0.029 \text{ mW cm}^{-2}$$

$$\frac{4466}{4 \times \pi \times 20^2} = 0.89 \text{ mW cm}^{-2}$$

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

$$0.029 + 0.89 = 0.919$$

As the sum of highest MPE ratios for simultaneous transmitting antennas is ≤ 1.0 , simultaneous transmission MPE test exclusion is compliant with FCC/ISED RF exposure requirements in mobile exposure condition.