

3.8 **RF Exposure Compliance**

The maximum measured antenna conducted power, P is 19dBm

The antenna gain, G is 2dBi

The maximum EIRP power = P + G ERP = 19+ 2= 21dBm, or 0.126W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 902-928MHz, MPE is $928/1500 = 0.619 \text{mW/cm}^2$, or 6.2W/m^2

The Power Density, S is related to EIRP with the equation: S = EIRP / $4\pi D^2$, where D is the safe separation distance and = 0.2m, or 20cm S = 0.128 / $4\pi 0.2^2$, S = 0.254mW/cm²-, or below the Maximum Permissible Exposure (MPE) of 6.2W/m²