

3.8 **RF Exposure Compliance**

The maximum measured antenna conducted power, P is 27.34dBm

The antenna gain, G is 6dBi

The maximum EIRP power = P + GERP = 27.34+ 6= 33.34dBm, or 2.158W

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

 $S = 2.158 / 4\pi 0.2^2,$ $S = 4.29 \text{mW/cm}^2, \text{ or below the Maximum Permissible Exposure (MPE) of } 6.2 \text{W/m}^2$

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