

3.8 RF Exposure Compliance

The maximum measured antenna conducted power, P is 24.8dBm

The antenna gain, G is -8.8dBi

The maximum EIRP power is 24.8 - 8.8 = 16dBm, or 0.04W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 902-928MHz, MPE is 928/300 = 3.093mW/cm², or 31W/m²

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

 $S = 0.04 / 4\pi 0.2^2$

S = 0.08mW/cm², or below the Maximum Permissible Exposure (MPE)

EMC Report No: 3144704MIN-001 FCC ID: xxxxxxx IC ID:xxxxxxx Page 43 of 52