3.5 RF Exposure Compliance

The maximum measured power, P is -6.1dBm

The antenna gain, G is 2dBi

The maximum EIRP power = P + G
ERP = -6.1 + 2 = -4.1dBm, or 0.389mW, or 0.0004W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 2.4Hz, MPE is $1mW/cm^2$, or $10W/m^2$

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
$S = 0.389 / 4\pi 20^2$,
$S = 0.000077mW/cm^{2,}$, or below the Maximum Permissible Exposure (MPE)