STAND ALONE READERII MPE calculation

Maximum Power output: 2402MHz: -12.5dBm

Max Antenna gain: 0.8 dBi

To determine the overall exposure at 20 cm from the EUT:

$$S = \frac{PG}{4\pi R^2}$$

S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

P=0.056 mW

G=1.202

R=20 cm

Total exposure at 20cm: 0.000013 $mW.cm^2$

FCC Limit: 1.0 mW/cm^2