ADW4401A MPE calculation

Maximum Power output: 2400MHz: 91.2mW (19.6dBm)

Max Antenna gain,: 2.0 dBi

One-half power: 16.6 dBm

Maximum EIRP from transmit antenna is 16.6 + 1.4 =18.0 dBm EIRP

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

The field strength contribution from each antenna is calculated using the equation

E, V/m = $(30*EIRP,watts)^{0.5}$/separation distance

Maximum EIRP from transmit antenna is 18.0 dBm EIRP = 0.0456 watt EIRP

S, mW/cm^2 = E/3770 , E in V/m

Total exposure at 20cm: 0.0015 $mW.cm^2$

For ADW4401A, the duty cycle is 100%   the final exposure at 20cm: 0.0015 $mW.cm^2$

FCC Limit: 1.0 mW/cm^2