MPE calculation

Maximum Power output: 67.6mW (18.3dBm)

Max Antenna gain,: 2.0 dBi

One-half power: 16.3 dBm

Maximum EIRP from transmit antenna is 16.3 + 2.0 =18.3 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 = $(30*\text{EIRP,watts})^{0.5}$/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: 0.00188 $mW.cm^2$

The duty cycle is 100% the final exposure at 20cm: 0.00188 $mW.cm^2$

FCC Limit: 1.0 mW/cm^2