MPE CALCULATION

MPE Limit Calculation: EUT's operating frequencies @ 5725 - 5850 MHz; highest conducted power = 24.7dBm (peak) therefore, **Limit for Uncontrolled exposure: 1 mW/cm^2 or 10 W/m^2**

Power Density Determination:

$S = PG / 4\pi R^2$ or $R = \sqrt{(PG / 4\pi S)}$

where, S = Power Density (1 mW/cm^2)
P = Linear Power Input to antenna
G = Numerical Antenna Gain
R = Radius

Model 800		
Antenna Model	**Gain (dBi)**	**Power Density @ 20cm or Distance to meet limit**
ARC Wireless Solutions (Parabolic)	30	153.3cm separation distance required for 1 mW/cm^2
PlainAir HiperLink (15^{0}Sector)	22	61.0cm separation distance required for 1 mW/cm^2
PlainAir HiperAccess (90^0 Sector)	14	24.3cm separation distance required for 1 mW/cm^2
MTI Wireless Edge (60^{0}Sector)	17	34.3cm separation distance required for 1 mW/cm^2
MTI Wireless Edge (120^{0}Sector)	15	27.2cm separation distance required for 1 mW/cm^2
MTI Wireless Edge (Omni)	9	0.46 mW/cm^2 @ 20cm separation distance

Model 700		
Antenna Model	**Gain (dBi)**	**Power Density @ 20cm or Distance to meet limit**
ARC Wireless Solutions (Panel)	23	68.5cm separation distance required for 1 mW/cm^2