

<b>RF Radiation Hazard Calculations</b>						
Calculations are based on OET Bulletin 65 equations 11-18						
<b>Input Values</b>						
Frequency of operation				14250.00	MHz	
Wavelength				0.02	Meters	
Reflector Diameter				4.20	Meters	
Reflector Area				13.85		
Antenna Gain				54.60	dBi	
Input Power				23.00	dBW	
Input Power				199.53	W	
<b>Resultant EIRP</b>				77.60	dBW	
				57543993.73	W	
<b>Power Density At Antenna Surface</b>						
Maximum Power Density At Antenna Surface				57.61	W/m <sup>2</sup>	
Maximum Power Density At Antenna Surface				5.76	mW/cm <sup>2</sup>	
Maximum Power Density At Antenna Surface				7.60	dBW/cm <sup>2</sup>	
Is this compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )				NO		
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )				NO		
<b>Power Density in the Near-Field Region</b>						
Extent of the Near-Field				209.48	Meters	

Aperture Efficiency					0.02	
On-Axis Near-Field Power Density					1.01	W/m <sup>2</sup>
					0.10	mW/cm <sup>2</sup>
Is this compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )					NO	
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )					NO	
<b>Power Density in the Transition Region</b>						
Beginning of the Far-Field Region					502.74	Meters
Transition Region Power Density						
Power density (near-field)		0.10	mW/cm <sup>2</sup>		209.48	Meters
Power density (far-field)		0.04	mW/cm <sup>2</sup>		502.74	Meters
Is this compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )					NO	
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )					NO	
<b>Power Density in the Far-Field Region</b>						
Far-Field starts at					502.74	Meters
Power density at the start of Far-Field Region					0.04	mW/cm <sup>2</sup>
At what range is power density compliant with limits?						
For occupational/ controlled exposure (5 mW/cm <sup>2</sup> )					286.1	Meters
For general population/ uncontrolled exposure (1 mW/cm <sup>2</sup> )					639.8	Meters