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19. MPE Calculations

Base Station Transceiver MPE Calculation

<u>Prediction of MPE limit at a given distance</u>			
Equation from page 18 of OET Bulletin 65, Edition 97-01			
$S = \frac{PG}{4\pi R^2}$			
where:	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		
Maximum peak output power at antenna input terminal:	26.99	(dBm)	
Maximum peak output power at antenna input terminal:	500.035	(mW)	
Antenna gain(typical):	2.58	(dBi)	
Maximum antenna gain:	1.811	(numeric)	
Prediction distance:	20	(cm)	
Prediction frequency:	915	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	0.62	(mW/cm^2)	
Power density at prediction frequency:	0.180190	(mW/cm^2)	
Maximum allowable antenna gain:	7.9	(dBi)	
Margin of Compliance at	20	cm =	5.4 dB