13.4 Dome antenna module.

The following MPE calculations are based on the Dome antenna, with a measured ERP of $120.5 dB\mu V/m$, at 3 meters and conducted RF power of +19.6 dBm as presented to the antenna. The calculated gain of this antenna, based on the ERP measurements is 5.7 dB.

		Prediction	of MPE limit at	a given	<u>distance</u>				
	Equatio	n from page 1	18 of OET Bulle	1					
		$S = \frac{PG}{4\pi R^2}$							
		$4\pi R$	2						
	where:	S = power d	lensity						
		P = power in	nput to the ante						
		G = power g	gain of the anter	direction of	of interest relative	to an iso	tropic ra	diator	
		R = distance to the center of radiation of the ar				tenna			
	Maximum peak output power at antenna input terminal:					19.60	(dBm)		
	Maxim	um peak outp	91.201	(mW)					
		Antenna gain(typical):					(dBi)		
					enna gain:	3.715	(numeric)	
					distance:		(cm)		
					frequency:		(MHz)		
MP	E limit for uncontrolled exposure at prediction frequency:					0.6	(mW/cm	\ 2)	
		D	Power density at prediction frequency:			0.007444	(١٥)	
		POW	er density at pr	ediction	requency.	0.067411	(mvv/cm	.2)	
			Maximum allov	vable ante	enna gain:	15.2	(dBi)		
		Margin of	Compliance at	20	cm =	9.5	dB		

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