POWER DENSITY ESTIMATIONS BASED ON POWER OUTPUT, ANTENNA GAIN, AND DISTANCE FROM ANTENNA

$$(P\,G) / (4\,R^2\,\pi) = S$$

where:	S =	maximum power density (mW/cm^2)	transmitter operating variables:		must be blank if dB values are entered	
	P =	power input to the antenna --------------------------------->>	=	25.17 (dBm) - or -		(mW)
	G =	gain of the antenna - worst case --------------------------->>	=	6.01 (dBi) - or -		(numeric gain)
	R =	distance to the center of the radiation of the antenna -->>	=	20		(cm)

(	P	G	) / (	4 *	R^2 *	π	)	=	S	(mW/cm^2)
(	328.8516309 (mw)	3.99025 (gain)	) / (	4 *	20 (cm) ^{2}	* π	)	=	S	(mW/cm^2)
(	1312.199899		) / (	4 *	400	* π $_3$	)	=	S	(mW/cm^2)
(	1312.199899		) / (	5026.548246			)	=	0.261054	(mW/cm^2)