

MPE Calculation

$$S = \frac{EIRP}{4R^2\pi}$$

S = Maximum power density (mW/cm2)
P = Power input to the antenna (mW)
G = Numeric power gain of the antenna
R = Distance to the center of the radiation of the antenna
EIRP = Equivalent Isotropic Radiated Power(mW) (=P*G)

Frequency range (MHz)			Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm2)	Averageing time (minutes)
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824 / f	2.19 / f	*180 / f2	30
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1	30

Model Name : **TOVNETcam**

FCC ID : **2BFPS-TOVNETCAM**

Separation distance (R) : **20.0 cm**

Modulation	Frequency (MHz)	Measured Maximum Average power	Tune-up tolerance (dB)	Max. Power with tune-up tolerance (P)		Antenna Gain (G)		Power Density (S)	Limit of Power Density (S)	Result
		(dBm)		(dBm)	(mW)	(dBi)	(numeric)	(mW/cm2)	(mW/cm2)	
802.11n_HT20	2412	12.38	± 1.00	13.38	21.78	5.09	3.23	0.0140	1.00	PASS
	2442	12.36		13.36	21.68	5.09	3.23	0.0139	1.00	PASS
	2472	12.35		13.35	21.63	5.09	3.23	0.0139	1.00	PASS

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

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