Mikrotik		Model: RB cAP 2n		Test Number: 140414		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cm^2					
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.085000		Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	19.29		Antenna minus cable (dBi)	1.00
	Calculated ERP (mw)	64.926		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	107.009			Radiated (EIRP) dBm	20.294
				ERP = EIRP - 2.17 dB		
	Occupational Limit				Radiated (ERP) dBm	18.124
5.00000	mW/cm^2					
50.00000	W/m^2					
	General Public Limit					
1.00000	mW/cm^2					
10.00000	W/m^2					

Power density (S)

EIRP
------- = mW/cm^2
4 p r^2

r (cm) EIRP (mW)

FCC radio frequency radiation exposure limits per 1.1310 (mW/cm2)		
Frequency (MHz)	Occupational Limit	Public Limit
300-1,500	f/300	f/1500
1,500-10,000	5	1

FCC radio frequency radiation exposure limits per 1.1310		
Frequency (MHz)	Occupational Limit	Public Limit
300-1,500 (mW/cm2)	8.123333333	1.624666667
300-1,500 (W/m2)	81.23333333	16.24666667
1,500-10,000 (mW/cm2)	5	1
1,500-10,000 (W/m2)	50	10

EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm^2	W/m^2	cm	meter	inches	Feet
107.009	0.00003	0.00034	500.00	5.00	196.85	0.42
107.009	0.00005	0.00053	400.00	4.00	157.48	0.33
107.009	0.00009	0.00095	300.00	3.00	118.11	0.25
107.009	0.00021	0.00213	200.00	2.00	78.74	0.17
107.009	0.00028	0.00278	175.00	1.75	68.90	0.15
107.009	0.00038	0.00378	150.00	1.50	59.06	0.13
107.009	0.00054	0.00545	125.00	1.25	49.21	0.10
107.009	0.00085	0.00852	100.00	1.00	39.37	0.08
107.009	0.00151	0.01514	75.00	0.75	29.53	0.06
107.009	0.00341	0.03406	50.00	0.50	19.69	0.04
107.009	0.00532	0.05322	40.00	0.40	15.75	0.03
107.009	0.00946	0.09462	30.00	0.30	11.81	0.03
107.009	0.02129	0.21289	20.00	0.20	7.87	0.02
107.009	0.08515	0.85155	10.00	0.10	3.94	0.01
107.009	0.34062	3.40619	5.00	0.05	1.97	0.00
107.009	0.94616	9.46164	3.00	0.03	1.18	0.00
107.009	8.51548	85.15479	1.00	0.01	0.39	0.00

Frequency (MHz)	Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
300-1,500	N/A	N/A	N/A	N/A
1,500-10,000	N/A	N/A	0.03	3 / 1