Mikrotik	Model: RB911G-2HPnD-12		Test Number:	180509		
MPE Calculator			x power added to the antenna gain in dBi.			
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cr	n^2				
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.250000		Antenna Gain (dBd)	12.8
Cable Loss (dB)	0.0	(dBm)	24.0		Antenna minus cable (dBi)	15.0
	Calculated ERP (mw)	4796.672		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)			, , , , ,	Radiated (EIRP) dBm	38.97
		Power density (S)		ERP = EIRP - 2.17 dB		
		Tower density (b)			Radiated (ERP) dBm	36.80
		EIRP				
		= mW/cn	n^2			
		4 p r^2				
		EIRP (mW), r (cm)				
	Occupational Limit		FCC radio frequency radiation exposure	limits per 1.1310		
5		Frequency (MHz)	Occupational Limit (mW/cm²)	Public Limit (mW/cm ²)		
50		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
	mW/cm ²	1,500-10,000		ı		
1						
10	W/m ²					
	Occupational Limit		IC radio frequency radiation exposure lin	nits per RSS-102		
$0.6455f^{0.5}$	W/m^2	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
31.86574	W/m ²	100-6,000	$0.6455 f^{0.5}$			
	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	W/m^2	48-300		1.291		
5.40397	W/m ²	300-6,000		$0.02619f^{0.6834}$		
	W/III	6,000-15,000	50	10		
		0,000-13,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
7905.694	0.06291	0.629	100.00	1.00	39.37	3.28
7905.694	0.07767	0.777	90.00	0.90	35.43	2.95
7905.694	0.09830	0.983	80.00	0.80	31.50	2.62
7905.694	0.12839	1.284	70.00	0.70	27.56	2.30
7905.694	0.17475	1.748	60.00	0.60	23.62	1.97
7905.694	0.25165	2.516	50.00	0.50	19.69	1.64
7905.694	0.39320	3.932	40.00	0.40	15.75	1.31
7905.694	0.69902	6.990	30.00	0.30	11.81	0.98
7905.694	1.57279	15.728	20.00	0.20	7.87	0.66
7905.694	6.29115	62.912	10.00	0.10	3.94	0.33
7905.694	7.76685	77.669	9.00	0.090	3.54	0.30
7905.694	9.82992	98.299	8.00	0.080	3.15	0.26
7905.694	12.83908	128.391	7.00	0.070	2.76	0.23
7905.694	17.47542	174.754	6.00	0.060	2.36	0.20
7905.694	25.16461	251.646	5.00	0.050	1.97	0.16
7905.694	39.31970	393.197	4.00	0.040	1.57	0.13
7905.694	69.90168	699.017	3.00	0.030	1.18	0.10
		Frequency (MHz)	Occupational Limit minimum Distance (meters)	Public Limit minimum distance (meters)		
		47CFR 1.1310	N/A	0.20		
		RSS-102	N/A	0.20		

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Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA S/N: 84AD08CAE425, 84AD08300865

Model: RB911G-2HPnD-12S FCC ID: TV7RB911G2HPND Test #: 180509 IC: 7442A-911G2HPND

Test to: 47CFR 15.247, RSS-247 Date: June 26, 2018

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