Mikrotik	Model: RB411AR/R Test Number:					090609		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.							
			ompared to an iso					
	S = power density in mW/cm ²							
	1					Ante	enna Gain (dBi)	24
		Output Power				dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2442	Maximum (Watts)			0.1000		nna Gain (dBd)	21.83
	2112		ittimitan (Watts)		0.1000	rince	ina Gair (aba)	21.03
Cable Loss (dB)	0.0	(dBm)		20.00		Antenna minus cable (dBi)		24.00
Calculate	d ERP (mw)	150	240 528			EIRP = Po(dBM) + Ga	ain (dB)	
		(mw) 25118.864 Power density					ed (EIRP) dBm	44.000
Cucuatou	Liid (IIII)			· (C)		ERP = EIRP - 2.17 dB		11.000
Occupa	tional Limit			7 (8)		Radiated (ERP) dBm		41.830
	_		EIRP			Radia	ied (Eld') dbiii	41.050
5.00000	mW/cm ²	m EIRP		W/cm^2.				
			4 π r^2	CIII 2				
General I	Public Limit		17612					
1.00000	mW/cm ²		r (cm) EIRP	(mW)				
		FCC radio frequency radiation exposure limits per 1.1310						
		Fı	requency (MHz)		tional Limit	Public Limit		
			300-1,500	_	300	f/1500		
			1,500-10,000	D	5	1		
			1,500-10,000		,	1		
			ECC 1 C			f. 5 1 1210		
			FCC radio freq	uency radiation expos Occupational Limit		ure limits per 1.1310		
				@ Tx Freq		Public Limit @ Tx Fre		
		Frequency (MHz)		_	_	(mW/cm^2)	4	
		FI		8.14		· · · · · ·		
			300-1,500			1.628		
		1,500-10,000		5		1		
			EIRP	Dis	stance	Distance	S	Distance
			milliwatts	cm 100.00		inches	mW/cm ²	Feet
			25118.864			39.37	0.19989	3.28
		25118.864		90.00		35.43	0.24678	2.95
			25118.864		0.00	31.50	0.24678	2.62
			25118.864		0.00	27.56	0.31233	2.30
			25118.864		0.00	23.62	0.40794	1.97
					0.00	19.69	0.55525	
			25118.864		9.00	19.69		1.64
			25118.864				0.83253	1.61
			25118.864		8.00	18.90	0.86758	1.57
			25118.864		7.00	18.50	0.90489	1.54
			25118.864		6.00	18.11	0.94466	1.51
			25118.864		5.00	17.72	0.98711	1.48
			25118.864		4.00	17.32	1.03249	1.44
			25118.864		0.00	15.75	1.24931	1.31
			25118.864		0.00	7.87	4.99724	0.66
			25118.864	1	9.00	7.48	5.53711	0.62
				-	ional Limit	D 18 71 5 11		
		_			n Distance	Public Limit minimum	1	
		Ft	requency (MHz)	_ `	inches)	distance (cm / inches)		
			300-1,500		V/A	N/A		
			1,500-10,000	20	/ 7.9	45 / 17.7		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 MIKROTIK Model: RB411AR Test #: 090609 Test to: FCC (15.247) File: RFExp RB411AR FCC ID#: TV7RB411AR SN: 1C3C01F55039

Page 1 of 1

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