						Mikrotik
		nna gain in dBi.	•	P for calculation. EIRP is based of		MPE Calculator
				compared to an isotropic radiato		
				sity in mW/cm^2	S = power den	
	ıntenna Gain (dBi)					
	dBi to dBd	dBd + 2.17 = dBi		Output Power		
29.8	ntenna Gain (dBd)	Ar	0.970510	Maximum (Watts)	5785	Tx Frequency (MHz)
32.0	1 11 (17)		20.0	(m.)	0.0	C 11 T (17)
	minus cable (dBi)	Antenna	29.87	(dBm)	0.0	Cable Loss (dB)
		EIRP = Po(dBM) + Gain (dB)		033254 301	lated ERP (mw)	Calout
61.87	iated (EIRP) dBm	, , , , ,			ated EIRP (mw)	
01.0	lated (Elici) dibili	ERP = EIRP - 2.17 dB		1550154.040	accidence (mw)	Calcula
59.70	diated (ERP) dBm			Power density (S)	pational Limit	Оссии
	(=== / ===			FIRE	0 mW/cm ²	
				$EIRP = mW/cm^2$		50.0000
				4 p r^2		
				- TP1 2	al Public Limit	
				r (cm) EIRP (mW)	0 mW/cm ²	
					0 W/m ²	10.00000
			ncy radiation exposure limits per			
		Public Limit	Occupational Limit	Frequency (MHz)		
		f/1500	f/300	300-1,500		
		1	5	1,500-10,000		
		its per 1.1310	requency radiation exposure lim	FCC radio 1		
		Public Limit	Occupational Limit	Frequency (MHz)		
		3.856666667	19.28333333	300-1,500 (mW/cm2)		
		38.56666667	192.8333333	300-1,500 (W/m2)		
		1	5	1,500-10,000 (mW/cm2)		
		10	50	1,500-10,000 (W/m2)		
Distance	Distance	Distance	Distance	S	S	EIRP
Feet	inches	meter	cm	W/m^2	mW/cm^2	milliwatts
0.67	314.96	8.00	800.00	1.91254	0.19125	1538154.640
0.58	275.59	7.00	700.00	2.49801	0.24980	1538154.640
0.50	236.22	6.00	600.00	3.40007	0.34001	1538154.640
0.42	196.85	5.00	500.00	4.89610	0.48961	1538154.640
0.40	187.01	4.75	475.00	5.42504	0.54250	1538154.640
0.38	177.17	4.50	450.00	6.04457	0.60446	1538154.640
0.36	169.29	4.30	430.00	6.61993	0.66199	1538154.640
0.33	157.48	4.00	400.00	7.65015	0.76502	1538154.640
0.29	137.80	3.50	350.00	9.99204	0.99920	1538154.640
0.25	118.11	3.00	300.00	13.60027	1.36003	1538154.640
0.21	98.43	2.50	250.00	19.58439	1.95844	1538154.640
0.17	78.74	2.00	200.00	30.60061	3.06006	1538154.640
0.17				39.96815	2 00601	
0.15	68.90	1.75	175.00		3.99681	1538154.640
0.15 0.13	68.90 61.81	1.57	157.00	49.65818	4.96582	1538154.640
0.15 0.13 0.08	68.90 61.81 39.37	1.57 1.00	157.00 100.00	49.65818 122.40246	4.96582 12.24025	1538154.640 1538154.640
0.15 0.13 0.08 0.08	68.90 61.81 39.37 35.43	1.57 1.00 0.90	157.00 100.00 90.00	49.65818 122.40246 151.11414	4.96582 12.24025 15.11141	1538154.640 1538154.640 1538154.640
0.15 0.13 0.08	68.90 61.81 39.37	1.57 1.00	157.00 100.00	49.65818 122.40246	4.96582 12.24025	1538154.640 1538154.640
0.15 0.13 0.08 0.08	68.90 61.81 39.37 35.43 31.50	1.57 1.00 0.90	157.00 100.00 90.00 80.00	49.65818 122.40246 151.11414	4.96582 12.24025 15.11141	1538154.640 1538154.640 1538154.640
0.15 0.13 0.08 0.08 0.07	68.90 61.81 39.37 35.43	1.57 1.00 0.90 0.80	157.00 100.00 90.00	49.65818 122.40246 151.11414	4.96582 12.24025 15.11141	1538154.640 1538154.640 1538154.640
0.15 0.13 0.08 0.08 0.07 Public Limit minimum distance	68.90 61.81 39.37 35.43 31.50 Public Limit	1.57 1.00 0.90 0.80 Occupational Limit minimum	157.00 100.00 90.00 80.00 Occupational Limit minimum	49.65818 122.40246 151.11414 191.25384	4.96582 12.24025 15.11141	1538154.640 1538154.640 1538154.640
0.15 0.13 0.08 0.08 0.07 Public Limit minimum distance	68.90 61.81 39.37 35.43 31.50 Public Limit minimum	1.57 1.00 0.90 0.80 Occupational Limit minimum Distance	157.00 100.00 90.00 80.00 Occupational Limit minimum Distance	49.65818 122.40246 151.11414	4.96582 12.24025 15.11141	1538154.640 1538154.640 1538154.640

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA Model: R5SHPn Test #: 110826M Test to: CFR47 (15.247) File: RFExp R5SHPn

SN: 2B7301BF7D81 FCC ID#: TV7R5SHPN Date: September 26, 2011

Page 1 of 1