		151015A	Number:	Te	Model: RBmAP-2nD	/likrotik
			er added to the antenna gain in dBi.	on. EIRP is based on TX p	MPE uses EIRP for calculation	/IPE Calculator
			-	ın isotropic radiator.	dBi = dB gain compared to a	
				n^2	S = power density in mW/cm	
rain (dBi)	Antenna Gain (dBi)					
Bi to dBd	dBi to dBd	dBd + 2.17 = dBi		Output Power		
sin (dBd)	Antenna Gain (dBd)		0.153858	Maximum (Watts)	2437	x Frequency (MHz)
ble (dBi)	Antenna minus cable (dBi)		21.9	(dBm)	0.0	lable Loss (dB)
		EIRP = Po(dBM) + Gain (dB)			Calculated ERP (mw)	
RP) dBm	Radiated (EIRP) dBm	ERP = EIRP - 2.17 dB			Calculated EIRP (mw)	
RP) dBm	Radiated (ERP) dBm	ERP - EIRP - 2.17 db		Power density (S)		
	` ,			EIRP		
				= mW/cm^2		
				4 p r^2		
				EIRP (mW), r (cm)		
		limits per 1.1310	CC radio frequency radiation exposure		Occupational Limit	
		Public Limit (mW/cm <sup>2</sup> )	Occupational Limit (mW/cm²)	Frequency (MHz)	mW/cm <sup>2</sup>	5
		f/1500	f/300	300-1,500	W/m <sup>2</sup>	50
		1	5	1,500-10,000	W/m General Public Limit	
				2,200 25,000	mW/cm <sup>2</sup>	1
					W/m <sup>2</sup>	10
					W/III	10
		nits per RSS-102	C radio frequency radiation exposure lin		Occupational Limit	
		Public Limit (W/m <sup>2</sup> )	Occupational Limit (W/m <sup>2</sup> )	Frequency (MHz)	W/m <sup>2</sup>	$0.6455f^{0.5}$
		Public Limit (W/III )	0.6455 f <sup>0.5</sup>	100-6,000	W/m W/m <sup>2</sup>	0.04337
						0.95552
		1 201	50	6,000-15,000	General Public Limit	0 6834
		1.291		48-300	W/m <sup>2</sup>	0.02619 <i>f</i> <sup>0.6834</sup>
		0.02619 <i>f</i> <sup>0.6834</sup>		300-6,000	W/m <sup>2</sup>	5.40397
		10	50	6,000-15,000		
	D.	7.				
Distanc	Distance	Distance	Distance	S	S	EIRP
Feet	inches	meter	cm	W/m <sup>2</sup>	mW/cm <sup>2</sup>	milliwatts
2.95	35.43	0.90	90.00	0.01903	0.00190	193.696
2.62	31.50	0.80	80.00	0.02408	0.00241	193.696
2.30	27.56	0.70	70.00	0.03146	0.00315	193.696
1.97 1.64	23.62 19.69	0.60 0.50	60.00 50.00	0.04282 0.06166	0.00428 0.00617	193.696 193.696
1.04	15.75	0.50	40.00	0.09634	0.00617	193.696
0.98	11.81	0.40	30.00	0.09634	0.00963	193.696
0.66	7.87	0.30	20.00	0.38535	0.03853	193.696
0.43	5.12	0.13	13.00	0.91206	0.09121	193.696
0.26	3.15	0.08	8.00	2.40842	0.24084	193.696
0.20	2.36	0.060	6.00	4.28163	0.42816	193.696
0.18	2.17	0.055	5.50	5.09549	0.50955	193.696
0.16	1.97	0.050	5.00	6.16554	0.61655	193.696
0.13	1.57	0.040	4.00	9.63366	0.96337	193.696
0.10	1.18	0.030	3.00	17.12651	1.71265	193.696
0.07	0.79	0.020	2.00	38.53465	3.85346	193.696
		0.010	1.00	154.13859	15.41386	193.696
0.03	0.39					
	0.39					
	0.39	Public Limit minimum distance (meters)	ccupational Limit minimum Distance	Frequency (MHz)		
	0.39			Frequency (MHz) 47CFR 1.1310		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214

Revision 1

Mikrotikls SIA Model: RBmAP-2nD Test #: 151015A

Test to: 47CFR 15.247, RSS-247 File: RBmAP2nD RFExp S/N: 642A01DDE062 FCC ID#: TV7RBMAP2ND IC: 7442A-MAP2ND Date: December 31, 2015

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