			Test Number:	Model: CRS109-8G-1S-2HnD		Mikrotik
		nna gain in dBi.	•	P for calculation. EIRP is based		MPE Calculator
			ī.	compared to an isotropic radiato		
				sity in mW/cm^2	S = power den	
	Antenna Gain (dBi)					
2.2	dBi to dBd	dBd + 2.17 = dBi		Output Power		
-0.17	ntenna Gain (dBd)	A	1.000000	Maximum (Watts)	2437	Tx Frequency (MHz)
2.00	minus cable (dBi)	Antenna	30.00	(dBm)	0.0	Cable Loss (dB)
		EIRP = Po(dBM) + Gain (dB)		961.612	ated ERP (mw)	Calcul
32.000	liated (EIRP) dBm				ted EIRP (mw)	
		ERP = EIRP - 2.17 dB			`	
29.830	diated (ERP) dBm	Ra		Power density (S)	ational Limit	Оссир
				EIRP	mW/cm ²	
				= mW/cm^2		50.00000
				4 p r^2	al Public Limit	
				•		
				r (cm) EIRP (mW)	mW/cm ²	
					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 limi	FCC radio t		
		Public Limit	Occupational Limit	Frequency (MHz)		
		1.624666667	8.123333333	300-1,500 (mW/cm2)		
		16.24666667	81.23333333	300-1,500 (W/m2)		
		10	5 50	1,500-10,000 (mW/cm2) 1,500-10,000 (W/m2)		
		10	30	1,500-10,000 (W/m2)		
Distance	Distance	Distance	Distance	S	S	EIRP
Feet	inches	meter	cm	W/m^2	mW/cm ²	milliwatts
0.42	196.85	5.00	500.00	0.00504	0.00050	1584.893
0.33	157.48	4.00	400.00	0.00788	0.00079	1584.893
0.25	118.11	3.00	300.00	0.01401	0.00140	1584.893
0.17	78.74	2.00	200.00	0.03153	0.00315	1584.893
0.15	68.90	1.75	175.00	0.04118	0.00412	1584.893
0.13	59.06	1.50	150.00	0.05605	0.00561	1584.893
0.10	49.21	1.25	125.00	0.08072	0.00807	1584.893
0.08	39.37	1.00	100.00	0.12612	0.01261	1584.893
0.06	29.53	0.75	75.00	0.22422	0.02242	1584.893
0.04	19.69	0.50	50.00	0.50449	0.05045	1584.893
0.03	15.75	0.40	40.00	0.78826	0.07883	1584.893
0.03	11.81	0.30	30.00	1.40135	0.14014	1584.893
0.02	7.87	0.20	20.00	3.15304	0.31530	1584.893
0.01	5.91	0.15	15.00	5.60541	0.56054	1584.893
0.01	4.33	0.11	11.00	10.42329	1.04233	1584.893
0.01	3.94	0.10	10.00	12.61218	1.26122	1584.893
0.00	1.97	0.05	5.00	50.44872	5.04487	1584.893
Public Limit	Public Limit	Occupational Limit minimum	Occupational Limit minimum			
minimum distance	minimum	Distance	Distance	F 251		
Public Limit minimum distance (cm / inches) N/A		-	-	Frequency (MHz) 300-1,500		

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Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA

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Test to: CFR47 (15.247) File: RFExp CRS109 8G2HnD SN: 500204DB63F3/413

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Date: May 14, 2014

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