Mikrotik		Model: OmniTik U-5HnD	Test Number:	110518		
MPE Calculator	MPE uses EII	RP for calculation. EIRP is bas	sed on TX power added to the a	ntenna gain in dBi.		
	dBi = dB gain	compared to an isotropic radi	ator.	_		
	S = power de	nsity in mW/cm^2				
	-			1	Antenna Gain (dBi)	3
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785		0.661000		ntenna Gain (dBd)	0.83
in i requesto) (iiiii)	3.00	111111111111111111111111111111111111111	3.552555			0.0.
Cable Loss (dB)	0.0	(dBm)	28.20	Antenna	a minus cable (dBi)	3.00
(<u>—</u>)		(=)				
Calcui	lated ERP (mw)	800 205		EIRP = Po(dBM) + Gain (dB)		
	ated EIRP (mw)			1 , , , , , ,	liated (EIRP) dBm	31.202
Cucui	med Elia (mw)	1310.000		ERP = EIRP - 2.17 dB	auteu (Erru) ubin	31.20
Occupational Limit		Power density (S)			diated (ERP) dBm	29.03
				IX.	diated (Erd) doin	25.05.
5.00000 mW/cm ²		EIRP				
50.00000 W/m ²		= mW/cm^2				
Gener	al Public Limit	4 p r^2				
1.0000	0 mW/cm ²	r (cm) EIRP (mW)				
10.0000	0 W/m^2	I (ciii) Liter (iii w)				
10.0000		FCC radio frequ	iency radiation exposure limits pe	er 1 1310 (mW/cm2)		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		1,300-10,000		1		
		FCC redi	o frequency radiation exposure li	mits non 1 1210		
		FCC radio	o frequency radiation exposure in	mits per 1.1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500 (mW/cm2)	19.28333333	3.856666667		
		300-1,500 (W/m2)	192.8333333	38.56666667		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (W/m2)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m^2	cm	meter	inches	Feet
1318.868	0.00042	0.00420	500.00	5.00	196.85	0.42
1318.868	0.00042	0.00420	400.00	4.00	157.48	0.33
1318.868	0.00000	0.00050	300.00	3.00	118.11	0.25
1318.868	0.00117	0.02624	200.00	2.00	78.74	0.17
1318.868	0.00202	0.10495	100.00	1.00	39.37	0.08
1318.868	0.01030	0.41981	50.00	0.50	19.69	0.04
1318.868	0.06560	0.65595	40.00	0.40	15.75	0.03
1318.868	0.11661	1.16614	30.00	0.30	11.81	0.03
1318.868	0.26238	2.62381	20.00	0.20	7.87	0.02
1318.868	1.04952	10.49522	10.00	0.10	3.94	0.01
1318.868	1.29571	12.95706	9.00	0.09	3.54	0.01
1318.868	1.63988	16.39878	8.00	0.08	3.15	0.01
1318.868	2.14188	21.41882	7.00	0.07	2.76	0.01
1318.868	2.91534	29.15339	6.00	0.06	2.36	0.01
1210 060	4.19809	41.98088	5.00	0.05	1.97	0.00
1318.868	6.55951	65.59513	4.00	0.04	1.57	0.00
1318.868		116 61257	3.00	0.03	1.18	0.00
	11.66136	116.61357				
1318.868			Occupational Limit minimum Distance	Occupational Limit minimum Distance	Public Limit minimum	
1318.868		Frequency (MHz)	Occupational Limit minimum Distance (meters)	Distance (cm / inches)	minimum distance (meters)	minimum distance (cm / inches)
1318.868			Occupational Limit minimum Distance	Distance	minimum	minimum distance

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA Model: OmniTik U-5HnD Test #: 110518 Test to: FCC (15.247) File: RFExp OmniTik

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