Mikrotik		Model: Metal 5SHPn	Test Number	120416M		
MPE Calculator	MPE uses EI	RP for calculation. EIRP is based	on TX power added to the ante	enna gain in dBi.		
	dBi = dB gain compared to an isotropic radiator.					
	S = power de	ensity in mW/cm^2				
				1	Antenna Gain (dBi)	32
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	1.000000	A	intenna Gain (dBd)	29.83
Cable Loss (dB)	0.0	(dBm)	30.00	Antonno	a minus cable (dBi)	32.00
Cable Loss (db)	0.0	(dbiii)	30.00	Antenia	i illius cable (dbi)	32.00
Calculated ERP (mw)		961612.278		EIRP = Po(dBM) + Gain (dB)		
Calculated EIRP (mw)		1584893.192		Rac	liated (EIRP) dBm	62.000
		Power density (S)		ERP = EIRP - 2.17 dB		
Occu	ipational Limit	Power density (S)		Ra	diated (ERP) dBm	59.830
5.00000 mW/cm ²		EIRP				
50.0000	00 W/m^2	$= mW/cm^2$				
	ral Public Limi	4 p r^2				
1.0000	00 mW/cm ²	TIPD (WW)				
	00 W/m ²	r (cm) EIRP (mW)				
10.0000	00 VV/III	FCC radio freque	ency radiation exposure limits per	1 1310 (mW/cm2)		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		1,500 10,000		1		
		FCC radio	frequency radiation exposure lim	its per 1.1310		
		Emagnesia (MIIIa)	O a sum ation al Limit	Dulello Limit		
		Frequency (MHz) 300-1,500 (mW/cm2)	Occupational Limit	Public Limit 3.85666667		
		300-1,500 (M/m2)	19.28333333 192.8333333	38.56666667		
		1,500-10,000 (mW/cm2)	5	38.3000007		
		1,500-10,000 (M/m2)	50	10		
		1,500 10,000 (17/112)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
1584893.192	0.82920	8.29203	390.00	3.90	153.54	0.33
1584893.192	0.87342	8.73420	380.00	3.80	149.61	0.32
1584893.192	0.92127	9.21269	370.00	3.70	145.67	0.31
1584893.192	0.97316	9.73162	360.00	3.60	141.73	0.30
1584893.192	1.02957	10.29566	350.00	3.50	137.80	0.29
1584893.192	1.09102	10.91019	340.00	3.40	133.86	0.28
1584893.192	1.15814	11.58143	330.00	3.30	129.92	0.28
1584893.192	1.23166	12.31658	320.00	3.20	125.98	0.27
1584893.192	1.31240	13.12402	310.00	3.10	122.05	0.26
1584893.192	1.40135	14.01353	300.00	3.00	118.11	0.25
1584893.192	1.66773	16.67726	275.00	2.75	108.27	0.23
1584893.192	2.01795	20.17949	250.00	2.50	98.43	0.21
1584893.192	2.49129	24.91295	225.00	2.25	88.58	0.19
1584893.192	3.15304	31.53045	200.00	2.00	78.74	0.17
1584893.192	4.11826	41.18263	175.00	1.75	68.90	0.15
1584893.192	4.92663	49.26633	160.00	1.60	62.99	0.13
1584893.192	5.60541	56.05413	150.00	1.50	59.06	0.13
			Occupational Limit minimum	Occupational Limit minimum	Public Limit	Public Limit
			Distance	Distance	minimum	minimum distance
		Frequency (MHz)	(meters)	(cm / inches)	distance (meters)	(cm / inches)
		300-1,500	N/A	N/A	N/A	N/A
		1,500-10,000	1.60	160 / 63	3.50	350 / 138

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

Revision 1

Mikrotikls SIA Model: Metal-5SHPn Test #: 120416M Test to: FCC (15.247) File: RFExp METL5SHPN

FCC ID#: TV7METL5SHPN SN: 315401DD0BF9/128 Date: May 9, 2012

Page 1 of 1