Mikrotik	Model: R11e-5HacT		Test Number:	171024		
MPE Calculator	MPE uses EIRP for calculation	on. EIRP is based on TX	X power added to the antenna gain in dBi.			
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cm	r^2				
					Antenna Gain (dBi)	36
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
x Frequency (MHz)	5240	Maximum (Watts)	0.740493	3	Antenna Gain (dBd)	34.5
Cable Loss (dB)	0.0	(dBm)	28.7	7	Antenna minus cable (dBi)	36.7
	Calculated ERP (mw)	2101459.053		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	3463545.779			Radiated (EIRP) dBm	65.39
		Power density (S)		ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	63.2
		EIRP				
		= mW/cr	m^2			
		4 p r^2				
		EIRP (mW), r (cm)				
	0 " 17. "	= (/, - (em/	ECC and in far annual and india	Ei 1 1210		
	Occupational Limit	n an:	FCC radio frequency radiation exposure	1 .		
5		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
50		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
1	mW/cm ²					
10	W/m ²					
	Occupational Limit		IC radio frequency radiation exposure li	mits per RSS-102		
$0.6455f^{0.5}$	W/m ²	Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m ²)		
46.72635	W/m ²	100-6,000	$0.6455 f^{0.5}$	Tuble Latin (11/111)		
40.72033	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	_	48-300	50	1.291		
	W/m ²					
9.11857	W/m ²	300-6,000		$0.02619 f^{0.6834}$		
		6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
3463545.779	0.76561	7.656	600.00	6.00	236.22	19.69
3463545.779	0.91114	9.111	550.00	5.50	216.54	18.04
3463545.779 3463545.779	0.99998 1.36109	10.000 13.611	525.00 450.00	5.25 4.50	206.69 177.17	17.22 14.76
3463545.779	1.72263	17.226	450.00	4.50	177.17	13.12
3463545.779	2.24996	22.500	350.00	3.50	137.48	11.48
3463545.779	3.06245	30.624	300.00	3.00	118.11	9.84
3463545.779	3.64456	36.446	275.00	2.75	108.27	9.84
3463545.779	4.40992	44.099	250.00	2.50	98.43	8.20
3463545.779	4.59176	45.918	245.00	2.45	96.46	8.04
3463545.779	4.78507	47.851	240.00	2.400	94.49	7.87
3463545.779	4.90698	49.070	237.00	2.370	93.31	7.78
3463545.779	6.89051	68.905	200.00	2.000	78.74	6.56
3463545.779	14.06226	140.623	140.00	1.400	55.12	4.59
3463545.779	16.30889	163.089	130.00	1.300	51.18	4.27
3463545.779	19.14029	191.403	120.00	1.200	47.24	3.94
3463545.779	22.77853	227.785	110.00	1.100	43.31	3.61
		Frequency (MHz)	Occupational Limit minimum Distance (meters)	Public Limit minimum distance (meters)		
		47CFR 1.1310	2.37	5.25		
		. / СТ К 1.1510	2.31	3.23		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053

Revision 1

Phone/Fax: (913) 837-3214

Mikrotikls SIA Model: R11e-5HacT Test #: 171024

Test to: 47CFR, 15.407, RSS-247 File: R11e5HacT FCC MPE

S/N: 21218631

IC: 7442A-R11E5HACT FCC ID: TV7R11E5HACT Date: November 30, 2017

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