Mikrotik	Model: RBLDF-2nD		Test Number:	180702		
MPE Calculator	MPE uses EIRP for calculati	on. EIRP is based on TX	power added to the antenna gain in dBi.			
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cn					
					Antenna Gain (dBi)	2
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
x Frequency (MHz)	2437	Maximum (Watts)	0.032700		Antenna Gain (dBd)	22.8
1					( )	
Cable Loss (dB)	0.0	(dBm)	15.1		Antenna minus cable (dBi)	25.0
Ciol Boss (III)		( )				
	Calculated ERP (mw)	6274.047		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)			,,	Radiated (EIRP) dBm	40.14
	ì	Power density (S)		ERP = EIRP - 2.17 dB	` ′	
		1 Ower density (3)			Radiated (ERP) dBm	37.97
		EIRP				
		= mW/cn	n^2			
		4 p r^2				
		EIRP (mW), r (cm)				
	Occupational Limit		FCC radio frequency radiation exposure	limits per 1.1310		
5		Frequency (MHz)	Occupational Limit (mW/cm²)	Public Limit (mW/cm²)		
50		300-1,500	f/300	f/1500		
30	W/m <sup>-</sup> General Public Limit	1,500-1,500	5	1/1300		
	_	1,500-10,000	3	I		
1	mW/cm <sup>2</sup>					
10	W/m <sup>2</sup>					
	Occupational Limit		IC radio frequency radiation exposure lin	nits per RSS-102		
$0.6455 f^{0.5}$	$W/m^2$	Frequency (MHz)	Occupational Limit (W/m <sup>2</sup> )	Public Limit (W/m <sup>2</sup> )		
31.86574	W/m <sup>2</sup>	100-6,000	$0.6455f^{0.5}$	, ,		
	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	W/m <sup>2</sup>	48-300	50	1.291		
5.40397	W/m <sup>2</sup>	300-6,000		$0.02619f^{0.6834}$		
		6,000-15,000	50	10		
FIRE						P.1 .
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
10340.648	0.08229	0.823	100.00	1.00	39.37	3.28
10340.648	0.10159	1.016	90.00	0.90	35.43	2.95
10340.648	0.12858	1.286	80.00	0.80	31.50	2.62
10340.648	0.16794	1.679	70.00	0.70	27.56	2.30
10340.648	0.22858	2.286	60.00	0.60	23.62	1.97
10340.648	0.32915	3.292	50.00	0.50	19.69	1.64
10340.648	0.51430	5.143	40.00	0.40	15.75	1.31
10340.648	0.91431	9.143	30.00	0.30	11.81	0.98
10340.648	2.05721	20.572	20.00	0.20	7.87	0.66
10340.648	8.22883	82.288	10.00	0.10	3.94	0.33
10340.648	10.15904	101.590	9.00	0.090	3.54	0.30
10340.648	12.85754	128.575	8.00	0.080	3.15	0.26
10340.648	16.79352	167.935	7.00	0.070	2.76	0.23
10340.648	22.85785	228.579	6.00	0.060	2.36	0.20
10340.648	32.91530	329.153	5.00	0.050	1.97	0.16
10340.648	51.43016	514.302	4.00	0.040	1.57	0.13
10340.648	91.43140	914.314	3.00	0.030	1.18	0.10
		Frequency (MHz)	Occupational Limit minimum Distance	Public Limit minimum distance (meters)		
		. requerey (mile)	(meters)	2 do le 2 min rimminum distance (meters)		
			* *			
		47CFR 1.1310	N/A	0.20		

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Revision 1

Mikrotikls SIA Model: RBLDF-2nD

Test #: 180330 Test to: 47 CFR 15.247, RSS-247 File: RBLDF2 C2PC RFExp

S/N: 8D30082D7F29, 8D3008BD1801 FCC ID: TV7LDF2ND IC: 7442A-LDF2ND Date: July 18, 2018

Page 1 of 1