Mikrotik	Model: QRT2		Test Number:	160718		
IPE Calculator	MPE uses EIRP for calculation	n. EIRP is based on TX power added to the a	ntenna gain in dBi.			
	dBi = dB gain compared to an	isotropic radiator.				
	S = power density in mW/cm ²	2				
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	
x Frequency (MHz)	2437	Maximum (Watts)	0.009)	Antenna Gain (dBd)	14.8
able Loss (dB)	0.0	(dBm)	9.5		Antenna minus cable (dBi)	17.0
5 50	0.0	(ши)	7.5		Antenna minus caole (dbi)	17.0
	Calculated ERP (mw)	273.680		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	451.069			Radiated (EIRP) dBm	26.54
		Power density (S)		ERP = EIRP - 2.17 dB		
		EIRP = mW/cm^2			Radiated (ERP) dBm	24.37
		4 p r^2				
		EIRP (mW), r (cm)				
	Occupational Limit	FCC radio frequ	ency radiation exposure limits per 1	.1310		
		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
1	mW/cm ²					
10						
	777211					
	Occupational Limit	_	cy radiation exposure limits per RSS			
$0.6455f^{0.5}$	W/m ²	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
31.86574		100-6,000	$0.6455f^{0.5}$			
	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	W/m ²	48-300		1.291		
5.40397	W/m ²	300-6,000		$0.02619f^{0.6834}$		
		6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m^2	cm	meter	inches	Feet
451.069	0.00443	0.04431	90.00	0.90	35.43	2.95
451.069	0.00561	0.05609	80.00	0.80	31.50	2.62
451.069	0.00733	0.07325	70.00	0.70	27.56	2.30
451.069	0.00997	0.09971	60.00	0.60	23.62	1.97
451.069	0.01436	0.14358	50.00	0.50	19.69	1.64
451.069 451.069	0.02243 0.03988	0.22434 0.39883	40.00 30.00	0.40 0.30	15.75 11.81	1.31 0.98
451.069	0.03988	0.39883	20.00	0.30	7.87	0.98
451.069	0.21240	2.12396	13.00	0.13	5.12	0.43
451.069	0.56086	5.60858	8.00	0.08	3.15	0.43
451.069	0.90438	9.04381	6.30	0.063	2.48	0.21
451.069	1.18661	11.86608	5.50	0.055	2.17	0.18
451.069	1.43580	14.35796	5.00	0.050	1.97	0.16
451.069	2.24343	22.43431	4.00	0.040	1.57	0.13
451.069	3.98832	39.88321	3.00	0.030	1.18	0.10
451.069	8.97372	89.73723	2.00	0.020	0.79	0.07
451.069	35.89489	358.94892	1.00	0.010	0.39	0.03
		Frequency (MHz)	Occupational Limit minimum	Public Limit minimum distance		
			Distance (meters)	(meters)		
		47CFR 1.1310	0.20	0.20		
		RSS-102				

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Mikrotikls SIA

Model: RBQRTG-2SHPnD

Test #: 160718

Test to: 47CFR 15.247, RSS-247 File: RBQRTG2SHPnD RFExp

S/N: 6B14051BC43A/606/r2/611 FCC ID#: TV7RBQRTG2SHPND

IC: 7442A-QRTG2SHPND Date: August 8, 2016

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