		Model: SXTG 5HnD	Test Number:			
MPE Calculator	MPE uses EIR	P for calculation. EIRP is based	d on TX power added to the ante	nna gain in dBi.		
	dBi = dB gain compared to an isotropic radiator.					
	$S = power density in mW/cm^2$					
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.:
Tx Frequency (MHz)	5785	Maximum (Watts)	0.400000	Α	intenna Gain (dBd)	11.8
. , , ,		` ′				
Cable Loss (dB)	0.0	(dBm)	26.02	Antenn	a minus cable (dBi)	14.0
cuole 2005 (ab)	0.0	(шли)	20.02	T ancome	a manas caore (abr)	21.0
Calcul	ated ERP (mw)	6006 211		EIRP = Po(dBM) + Gain (dB)		
	ted EIRP (mw)				diated (EIRP) dBm	40.02
Calcula	ica Ena (iiw)	10047.540		ERP = EIRP - 2.17 dB	naica (Ena) abin	40.02
Occum	ational Limit	Power density (S)			diated (ERP) dBm	37.85
				N.	idialed (EKP) dbiii	37.03
	mW/cm ²	EIRP				
50.00000	W/m^2	$ = mW/cm^2$				
Genera	al Public Limit	4 p r^2				
1.00000	mW/cm ²	-() FIDD (W)				
10.00000		r (cm) EIRP (mW)				
10.00000	vv/III	ECC 4:- 4	ency radiation exposure limits per	1 1210 (mW/ar-2)		
				· · · · · · · · · · · · · · · · · · ·		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio	frequency radiation exposure lim	its 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 (MW/em2)	50	10		
		1,500-10,000 (W/HI2)	30	10		
EIRP	S	c c	Di-t	Distance	D'-+	D!-+
		S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
10047.546	0.00125	0.01249	800.00	8.00	314.96	26.25
10047.546	0.00320	0.03198	500.00	5.00	196.85	16.40
10047.546	0.01279	0.12793	250.00	2.50	98.43	8.20
10047.546	0.07996	0.79956	100.00	1.00	39.37	3.28
10047.546	0.09871	0.98711	90.00	0.90	35.43	2.95
10047.546	0.12493	1.24931	80.00	0.80	31.50	2.62
10047.546	0.16318	1.63175	70.00	0.70	27.56	2.30
10047.546	0.22210	2.22100	60.00	0.60	23.62	1.97
10047.546	0.31982	3.19823	50.00	0.50	19.69	1.64
10047.546	0.49972	4.99724	40.00	0.40	15.75	1.31
10047.546	0.65270	6.52701	35.00	0.35	13.78	1.15
10047.546	0.88840	8.88398	30.00	0.30	11.81	0.98
		10.19845	28.00			0.92
10047.546 10047.546	1.01984	19.98896	20.00	0.28	7.87	0.66
10047.546	3.55359	35.53592	15.00	0.20	5.91	0.49
10047.546	4.73111	47.31114	13.00	0.13	5.12	0.43
10047.546	7.99558	79.95583	10.00	0.10	3.94	0.33
			Occupational I imit minimum	Occupational Limit minimum	Dublic I imit	Dublic Limit minimum
			Occupational Limit minimum		Public Limit	Public Limit minimum
			Distance	Distance	minimum	distance
		Frequency (MHz)	(meters)	(cm / inches)	distance (meters)	(cm / inches)
		300-1,500	N/A	N/A 13 / 5.1	N/A	N/A
		1,500-10,000	0.13		0.28	28 / 11

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 MIKROTIK Model: SXT 5HPnD Test #: 110914B Test to: FCC (15.247) File: RFExp SXT5HPND

FCC ID#: TV7SXT-5HPND SN: 34A101DD0BF3 Date: November 2, 2011

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