RF Exposure Calculations

		47CFR 1.1310	(meters) 4.65	10.50		
		Frequency (MHz)	Occupational Limit minimum Distance	Public Limit minimum distance (meters)		
13182567.386	6.55647	65.56471	400.00	4.000	157.48	13.12
13182567.386	5.18042	51.80422	450.00 400.00	4.500 4.000	177.17	14.76
13182567.386	4.95763	49.57634	460.00	4.600	181.10	15.09
13182567.386	4.85159	48.51592	465.00	4.650	183.07	15.26
13182567.386	4.19614	41.96142	500.00	5.000	196.85	16.40
13182567.386	2.91399	29.13987	600.00	6.000	236.22	19.69
13182567.386	2.14089	21.40889	700.00	7.000	275.59	22.97
13182567.386	1.63912	16.39118	800.00	8.00	314.96	26.25
13182567.386	1.29511	12.95105	900.00	9.00	354.33	29.53
13182567.386	0.95151 1.04904	10.49035	1000.00	10.00	393.70	32.81
13182567.386 13182567.386	0.86697 0.95151	8.66971 9.51506	1100.00 1050.00	11.00 10.50	433.07 413.39	36.09 34.45
13182567.386	0.72850	7.28497	1200.00	12.00	472.44	39.37
13182567.386	0.62073	6.20731	1300.00	13.00	511.81	42.65
13182567.386	0.53522	5.35222	1400.00	14.00	551.18	45.93
13182567.386	0.46624	4.66238	1500.00	15.00	590.55	49.21
13182567.386	0.26226	2.62259	2000.00	20.00	787.40	65.62
milliwatts	mW/cm ²	W/m^2	cm	meter	inches	Feet
EIRP	S	S	Distance	Distance	Distance	Distance
		-2				
3,75047	***/111	6,000-15,000	50	10		
9.75649	W/m ²	300-6,000		$0.02619f^{0.6834}$		
$0.02619f^{0.6834}$	W/m ²	48-300	-	1.291		
	General Public Limit	6,000-15,000	50			
49.09621	W/m ²	100-6,000	$0.6455t^{0.5}$,		
$0.6455f^{0.5}$	W/m ²	Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m ²)		
	Occupational Limit	I	C radio frequency radiation exposure limits p	per RSS-102		
1 10	W/m ²					
	mW/cm ²					
	General Public Limit	1,500-10,000	5	1		
50	W/m ²	300-1,500	f/300	f/1500		
5	mW/cm ²	Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm²)		
	Occupational Limit		FCC radio frequency radiation exposure limit	· .		
		EIRP (mW), r (cm)				
		FIRD (mW) or (com)				
		4 p r^2				
		EIRP = mW/cm^2				
		- Finn			Radiated (ERP) dBm	69.0
		Power density (S)		ERP = EIRP - 2.17 dB		
	Calculated EIRP (mw)	13182567.386			Radiated (EIRP) dBm	71.2
	Calculated ERP (mw)	7998342.550		EIRP = Po(dBM) + Gain (dB)		
Cable Loss (dB)	0.0	(dBm)	30.0		Antenna minus cable (dBi)	41.
		, ,				
Frequency (MHz)	5785	Maximum Peak (Watts)	1.000000		Antenna Gain (dBd)	39.
		Output Power		dBd + 2.17 = dBi	Antenna Gain (dBi) dBi to dBd	41 2
	S = power density in mW/cm	^2			4	
	dBi = dB gain compared to a					

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 SAF Tehnika AS S/N's: 348650100197/34866000196 Models: CFL Sprint MXM Repeater FCC ID: W9Z-58F2DMXMR Test #: 170615A IC: 8855A-58F2DMXMR Test to: 47CFR 15.249(b), RSS-210 Date: October 11, 2017

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