MPE Calculator	SAF Tehnika		Test Nu	mber	090626A	
MPE uses EIRP for cal	culation. EIRP	is based on TX powe	er added to the antenna g		gain in dBi.	
	dBi = dB gain	compared to an isotro	pic radia	itor.		
		nsity in mW/cm^2			Antenna Gain (dBi)	4(
		Output Power	dBd + 2.17 = dBi		dBi to dBd	2.17
Tx Frequency (MHz)	24146.5	(Watts)		0.010998		37.83
		Ar		tenna minus cable (dBi)	40.00	
Cable Loss (dB)	0.0	(dBm)		10.41		
Calculated ERP (mw)		66730.363			Radiated (EIRP) dBm	50.413
Calculated EIRP (mw)		109982.474				
					Radiated (ERP) dBm	48.243
Occupational Limit		Power density	(S) =			
5.00000 mW/cm ²		EIRP				
		= mW/c	m^2			
General Public Li		4 pr^2				
1.00000 mW/cm ²		[r (cm), EIRP	(mW)]			
1.00000						
		FCC radio frequency radiation exposur		e limits per 1 1310		
		Frequency (MHz)			Public Limit	
		300-1,500	Coup	f/300	f/1500	
		1,500-10,000		5	1	
		1,500-10,000			-	
		FCC radio frequency radiation exposure li			e limits per 1 1310	
		ree radio nequ	FCC facto frequency factation exposure i			
			Occupational Limit @		Public Limit @ Tx	
		Frequency (MHz)	-	q (mW/cm^2)	Freq (mW/cm^2)	
		300-1,500		48833333	16.09766667	
		1,500-10,000	00.	5	1	
		1,500 10,000		2	-	
		EIRP	г	Distance	Distance	S
		milliwatts			inches	mW/cm
		109982.474		cm 100.00	39.37	0.87521
				95.00	39.37	0.87521
		109982.474 109982.474		93.00 93.00	36.61	1.01192
		109982.474		90.00	35.43	
		109982.474		80.00	31.50	1.08051 1.36752
				70.00		
		109982.474 109982.474		60.00	27.56 23.62	1.78615
				50.00	19.69	2.43115
		109982.474 109982.474		45.00	19.09	3.50085 4.32204
		109982.474		45.00	17.32	4.52204
				43.00	17.32	
		109982.474 109982.474				4.73344
				42.00	16.54	4.96152
		109982.474		41.00	16.14	5.20650
		109982.474		40.00	15.75	5.47008
		109982.474		30.00	11.81	9.72459
			<u>^</u>			
			-	ational Limit	DIF TO S	
		E	minim	um Distance	Public Limit minimum	
		Frequency (MHz)		(cm)	distance (cm)	
		300-1,500		N/A	N/A	
		1,500-10,000		42.00	93.00	

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 SAF Tehnika AS Model: CFIP-24 Test #: 090626A Test to: FCC Parts 2, 15.249 File: RFExp W9ZCFIP24

FCC ID#: W9Z-CFIP-24

Page 1 of 1 Date: June 26, 2009