MPE Calculator	Test	081118				
	MPE uses	EIRP for calculation.	EIRP is based on	TX power added to	the antenna gain in dBi.	
		gain compared to an i		•	J	
		r density in mW/cm^2	•		Antenna Gain (dBi)	0
	•	Output Power	2 Watts 50%	dBd + 2.17 = dBi		2.17
Tx Frequency (MHz)	155.025	-	1.00		Antenna Gain (dBd)	-2.17
Cable Loss (dB)	0.0	(dBm)	30.00		Antenna minus cable (dBi)	0.00
Calculated ERP (mw)		606.736			EIRP = Po(dBM) + Gain(dB)	
Calculated EIRP (mw)					Radiated (EIRP) dBm	30.000
	, ,				ERP = EIRP - 2.17 dB	
Occupational Limit		Power density (S)			Radiated (ERP) dBm	27.830
	mW/cm ²	EIRP = mW/cm 2 $4 \pi r^2$				
General Pu	ıblic Limit	r (cm) EIRP (mW)				
	mW/cm ²	-				
0.10333	III W/CIII					
		FCC radio frequenc	y radiation exposure	limits per 1.1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio frequenc				
			Occupational Limit			
			@ Tx Freq	Public Limit @ Tx		
		Frequency (MHz)	(mW/cm^2)	Freq (mW/cm^2)		
		300-1,500	0.51675	0.10335		
		1,500-10,000	5	1		
		EIRP	Distance	Distance	S	
		milliwatts	cm	inches	mW/cm ²	
		1000.000	100.00	39.37	0.00796	
		1000.000	50.00	19.69	0.03183	
		1000.000	45.00	17.72	0.03930	
		1000.000	40.00	15.75	0.04974	
		1000.000	35.00	13.78	0.06496	
		1000.000	30.00	11.81	0.08842	
		1000.000	28.00	11.02	0.10150	
		1000.000	24.00	9.45	0.13816	
		1000.000	23.00	9.06	0.15043	
		1000.000	20.00	7.87	0.19894	
		1000.000	13.00	5.12	0.47087	
		1000.000	10.00	3.94	0.79577	
		1000.000	5.00	1.97	3.18310	
		1000.000	2.00	0.79	19.89437	
			O	Date The		
			Occupational Limit	Public Limit minimum distance		
		Его топси (АЛТ-)	minimum Distance			
		Frequency (MHz)	(cm)	(cm)		
		300-1,500	13.00	28.00 N/A		
		1,500-10,000	N/A	N/A		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Tekk International, Inc. Model: XV-100 Test #: 081118

Test to: FCC Parts 2, 80, 90, RSS-119 File: RFExp XV100

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