

Dbii	Model: F20	Test Number: 080721			
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi. dBi = dB gain compared to an isotropic radiator. S = power density in mW/cm ²				
			Antenna Gain (dBi)	24	
		Output Power	dBd + 2.17 = dBi	dBi to dBd 2.2	
Tx Frequency (MHz)	2442	Maximum (Watts)	0.4950	Antenna Gain (dBd) 21.83	
Cable Loss (dB)	0.0	(dBm)	26.95	Antenna minus cable (dBi) 24.00	
Calculated ERP (mw)	75440.611		EIRP = Po(dBM) + Gain (dB)		
Calculated EIRP (mw)	124338.378		Radiated (EIRP) dBm 50.946		
			ERP = EIRP - 2.17 dB		
			Radiated (ERP) dBm 48.776		
Occupational Limit	Power density (S) EIRP ----- = mW/cm ² 4 π r ² r (cm) EIRP (mW)				
5.00000	mW/cm ²				
General Public Limit					
1.00000	mW/cm ²				
FCC radio frequency 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 frequency radiation exposure limits per 1.1310					
	Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm ²)	Public Limit @ Tx Freq (mW/cm ²)		
	300-1,500	8.14	1.628		
	1,500-10,000	5	1		
	EIRP	Distance	Distance	S	Distance
	milliwatts	cm	inches	mW/cm ²	Feet
	124338.378	400.00	157.48	0.06184	13.12
	124338.378	300.00	118.11	0.10994	9.84
	124338.378	235.00	92.52	0.17917	7.71
	124338.378	200.00	78.74	0.24736	6.56
	124338.378	150.00	59.06	0.43976	4.92
	124338.378	140.00	55.12	0.50482	4.59
	124338.378	130.00	51.18	0.58548	4.27
	124338.378	120.00	47.24	0.68712	3.94
	124338.378	110.00	43.31	0.81773	3.61
	124338.378	105.00	41.34	0.89746	3.44
	124338.378	100.00	39.37	0.98945	3.28
	124338.378	90.00	35.43	1.22155	2.95
	124338.378	80.00	31.50	1.54602	2.62
	124338.378	50.00	19.69	3.95781	1.64
	124338.378	45.00	17.72	4.88619	1.48
	124338.378	15.00	5.91	43.97571	0.49
	124338.378	11.00	4.33	81.77301	0.36
	Frequency (MHz)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)		
	300-1,500	N/A	N/A		
	1,500-10,000	45 / 17.7	100 / 39.4		

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DBii Networks Limited
Model: F20
Test #: 080721
Test to: FCC Parts 2 and 15c
File: RFExp F20

FCC ID#: VKV-F20

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