

Dbii Ltd	Model:	F52N-Pro	Test Number:	110711		
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)	33.5
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.6000		Antenna Gain (dBd)	31.33
Cable Loss (dB)	0.0	(dBm)	27.78		Antenna minus cable (dBi)	33.50
	Calculated ERP (mw)	814988.068		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	1343232.683			Radiated (EIRP) dBm	61.282
				ERP = EIRP - 2.17 dB		
	Occupational Limit				Radiated (ERP) dBm	59.112
	5.00000 mW/cm ²	<div style="border: 1px solid black; padding: 5px;"> Power density (S) EIRP ----- = mW/cm² $4 \rho r^2$ r (cm) EIRP (mW) </div>				
	50.00000 W/m ²					
	General Public Limit					
	1.00000 mW/cm ²					
	10.00000 W/m 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	Public Limit @ Tx Freq (mW/cm ²)			
	300-1,500 (mW/cm ²)	19.28333333	3.856666667			
	300-1,500 (W/m ²)	192.8333333	38.56666667			
	1,500-10,000 (mW/cm ²)	5	1			
	1,500-10,000 (W/m ²)	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
1343232.683	0.10689	1.06891	1000.00	10.00	393.70	0.83
1343232.683	0.19003	1.90029	750.00	7.50	295.28	0.63
1343232.683	0.42756	4.27564	500.00	5.00	196.85	0.42
1343232.683	0.66807	6.68069	400.00	4.00	157.48	0.33
1343232.683	1.04386	10.43858	320.00	3.20	125.98	0.27
1343232.683	1.18768	11.87678	300.00	3.00	118.11	0.25
1343232.683	2.67228	26.72277	200.00	2.00	78.74	0.17
1343232.683	3.49032	34.90320	175.00	1.75	68.90	0.15
1343232.683	4.75071	47.50714	150.00	1.50	59.06	0.13
1343232.683	5.08400	50.83998	145.00	1.45	57.09	0.12
1343232.683	5.45363	54.53626	140.00	1.40	55.12	0.12
1343232.683	6.84103	68.41028	125.00	1.25	49.21	0.10
1343232.683	10.68911	106.89106	100.00	1.00	39.37	0.08
1343232.683	13.19643	131.96427	90.00	0.90	35.43	0.08
1343232.683	16.70173	167.01728	80.00	0.80	31.50	0.07
1343232.683	21.81450	218.14502	70.00	0.70	27.56	0.06
1343232.683	29.69196	296.91961	60.00	0.600	23.62	0.05
			Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
		Frequency (MHz)				
		300-1,500	N/A	N/A	N/A	N/A
		1,500-10,000	1.45	145 / 57	3.20	320 / 126

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 Revision 1

Dbii Ltd
 Model: F52N-Pro
 Test #: 110711
 Test to: FCC Parts 2, 15c RSS-210
 File: RFExp F52N

IC: 9820A-F52N
 FCC ID#: VKV-F52N
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