

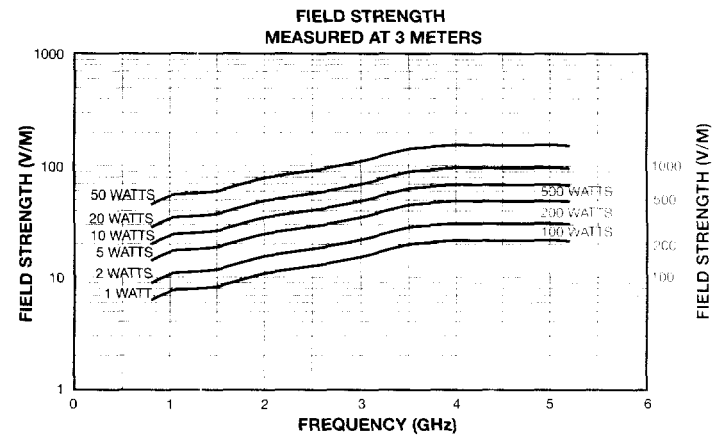
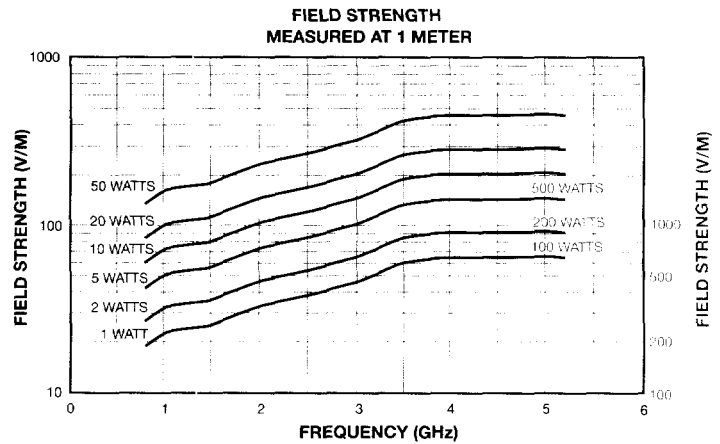
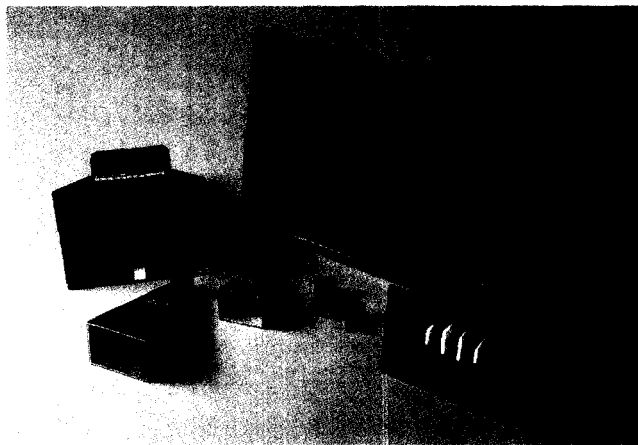
Microwave Horns.

Now To 40 GHz.

AT4002A

Seven new models give you microwave coverage you've never had before. Now to 40 GHz, our broadband RF and microwave horn antennas exhibit increasing gain with increasing frequency.

Losses that occur elsewhere in a test system and which generally increase with frequency are compensated for. Use in shielded rooms or free space. The new AT4560 (not shown below) goes from 18 to 40 GHz and is excellent for high gain applications.

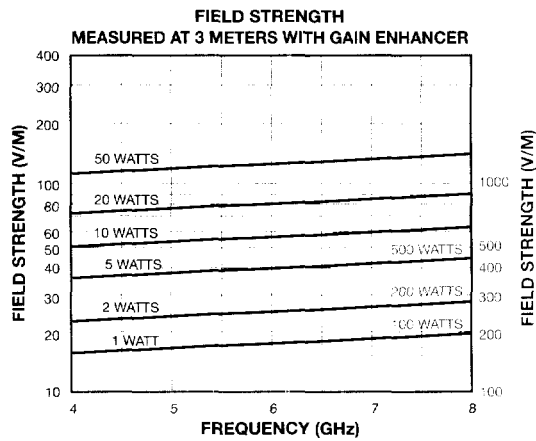
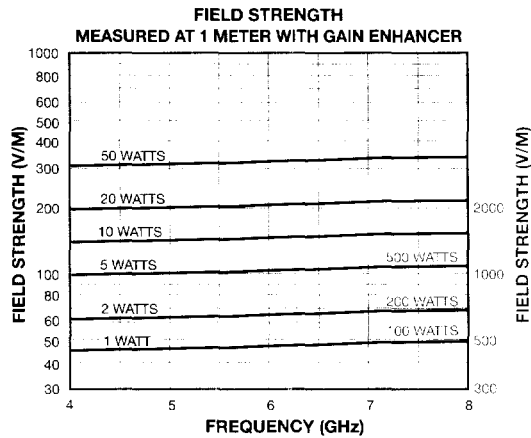


Field strengths have been measured in free-space conditions. Individual shielded rooms, amplifiers, and test-system conditions will influence performance. Field strength also varies with frequency and position of antenna and EUT in non-anechoic testing environments.

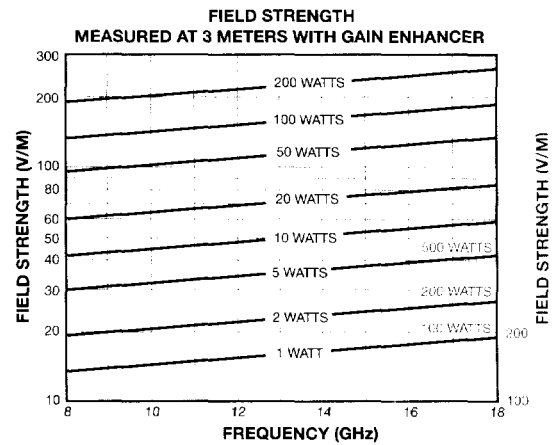
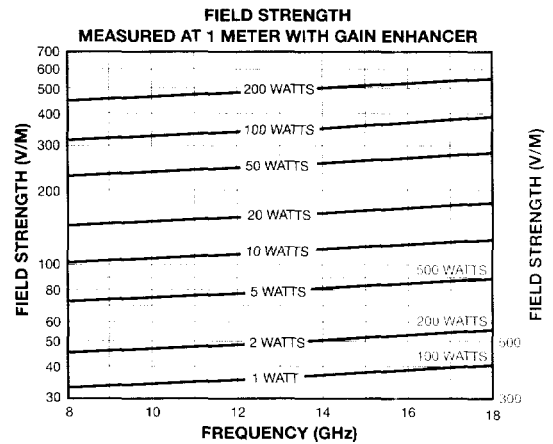
SPECIFICATIONS						
	AT4002A	AT4003	AT4004	AT4218	AT4510	
Frequency range	0.8 - 5 GHz	4 - 8 GHz	8 - 18 GHz	4 - 18 GHz	1 - 4.2 GHz	
Power input (max.)	250 watts	250 watts	250 watts	50 watts	1500 watts to 2.5 GHz. 900 watts to 4.2 GHz.	
Power gain (over isotropic)	11 dBi min. increasing to 22 dBi at 5 GHz.	11.5 dBi min., increasing to 15.9 dBi at 8 GHz 17.8 dBi min., increasing to 21.2 dBi at 8 GHz with gain enhancer	11.2 dBi min., increasing to 14.7 dBi at 18 GHz 17.4 dBi min., increasing to 20.2 dBi at 18 GHz with gain enhancer	6 dBi min., increasing to 12 dBi at 18 GHz	13 dBi min., increasing to 18 dBi at 4.2 GHz	
Impedance	50 ohms nominal	50 ohms nominal	waveguide	50 ohms nominal	50 ohms nominal	
VSWR						
Maximum	2.5:1	1.6:1	1.2:1	3:1	2.0:1	
Average	1.6:1	1.3:1	1.1:1	2:1	1.5:1	
Beamwidth (average) at 3dB down from peak						
E Plane	27.5°	30°	35°	50°	25°	
H Plane	25°	38°	35°	45°	26°	
Connector	Universal Block with Type N(f) supplied	Universal Block with Type N(f) supplied	WRD-750 D24 waveguide	SMA supplied	Universal Block with 7-16 DIN Female Quick Change supplied	
Weight	6 kg (16 lb)	1.6 kg (3.5 lb)	0.6 kg (1.25 lb)	283.5 g (10 oz)	5.9 kg (13 lb)	
Size (WxDxH)	46.3 x 46.3 x 69.2 cm 18.25 x 18.25 x 27.25 in.	*21.6 x 21.6 x 30.5 cm (8.5 x 8.5 x 12 in.)	*8.9 x 11.4 x 13.3 cm (3.5 x 4.5 x 5.25 in.)	12.32 x 8.23 x 9.85 cm 4.85 x 3.24 x 3.88 in.	45.7 x 45.7 x 64 cm 18 x 18 x 25.2 in.	

*With gain enhancer.

AT4003

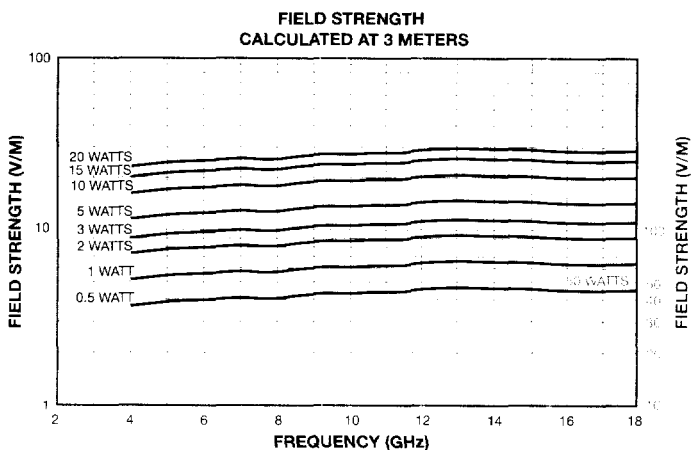
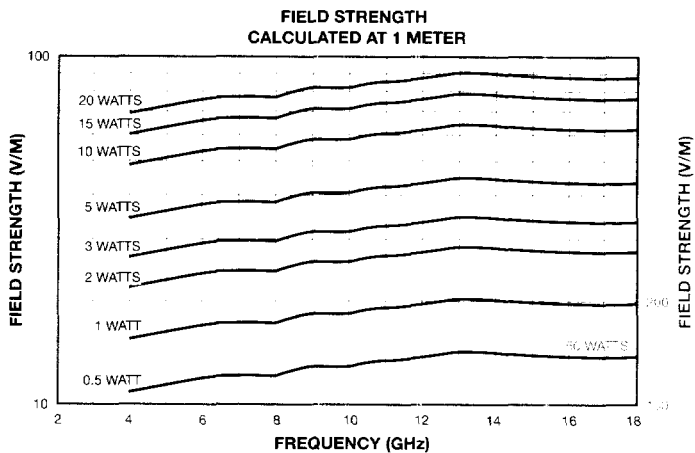


AT4004

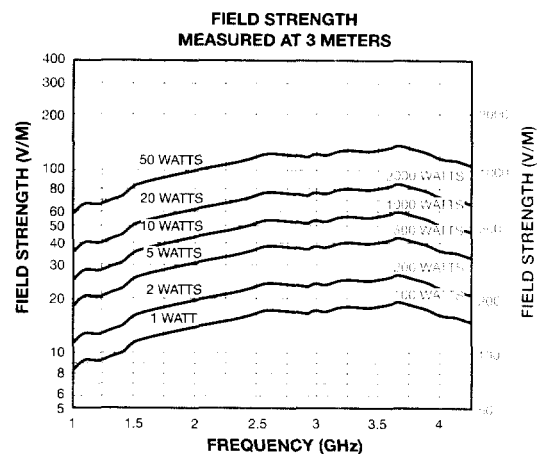
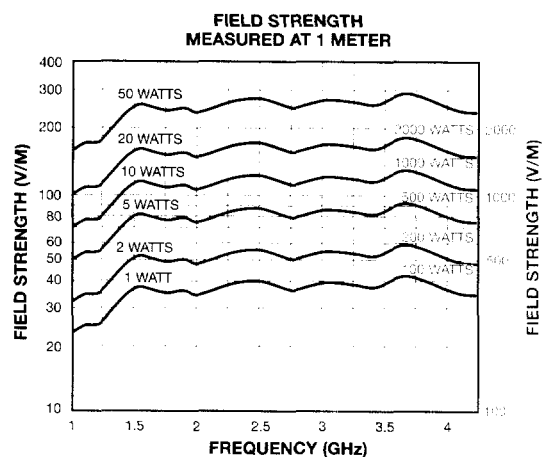


AT4520	AT4530	AT4540	AT4550	AT4640	AT4650
2.5 - 7.5 GHz	7.5 - 18 GHz.	18.0 - 26.5 GHz	26.5 - 40 GHz	18.0 - 26.5 GHz	26.5 - 40 GHz
1400 watts	1400 watts	600 watts CW	400 watts CW	600 watts CW	400 watts CW
9.5 dBi min, increasing to 18 dBi at 7.5 GHz.	15 dBi min, increasing to 21 dBi at 18 GHz.	18.8 dBi min, increasing to 21.7 dBi at 26.5 GHz.	18.9 dBi min, increasing to 21.8 dBi at 40 GHz.	8.8 dBi min, increasing to 12 dBi at 26.5 GHz.	8.6 dBi min, increasing to 12.1 dBi at 40 GHz.
waveguide	waveguide	waveguide	waveguide	waveguide	waveguide
1.5:1 1.3:1	1.5:1 1.3:1	1.5:1 1.3:1	1.5:1 1.3:1	1.5:1 1.3:1	1.5:1 1.3:1
30°	18°	15°	15°	68° at 18 GHz, 54° at 22.5 GHz, 44° at 26.5 GHz	70° at 26.5 GHz, 55° at 33.25 GHz, 44° at 40.0 GHz
30°	18°	15°	15°	68° at 18 GHz, 54° at 22.5 GHz, 46° at 26.5 GHz	69° at 26.5 GHz, 54° at 33.25 GHz, 43° at 40.0 GHz
WRD-250-D30 waveguide	WRD-750-D24 waveguide	WR-42 waveguide	WR-28 waveguide	WR-42 waveguide	WR-28 waveguide
0.6 kg (1.3 lb)	0.3 kg (0.7 lb)	56.7g (2 oz)	56.7g (2 oz)	57 g (2 oz)	56.7 g (2 oz)
14.0 x 10.4 x 13.2 cm 5.5 x 4.1 x 5.2 in.	9.7 x 7.1 x 15.0 cm 3.85 x 2.8 x 5.9 in.	5.74 x 4.09 x 11.4 cm 2.26 x 1.61 x 4.49 in.	4.06 x 3.07 x 5.08 cm 1.6 x 1.21 x 3.02 in.	1.63 x 1.32 x 3.15 cm 0.64 x 0.52 x 1.24 in.	1.09 x 0.89 x 2.16 cm 0.43 x 0.35 x 0.85 in.

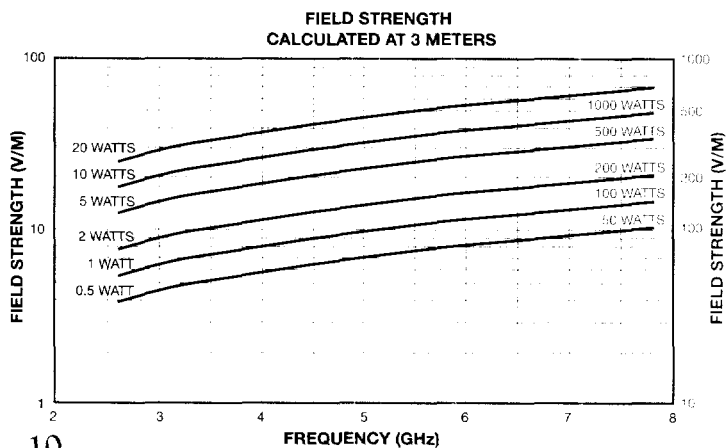
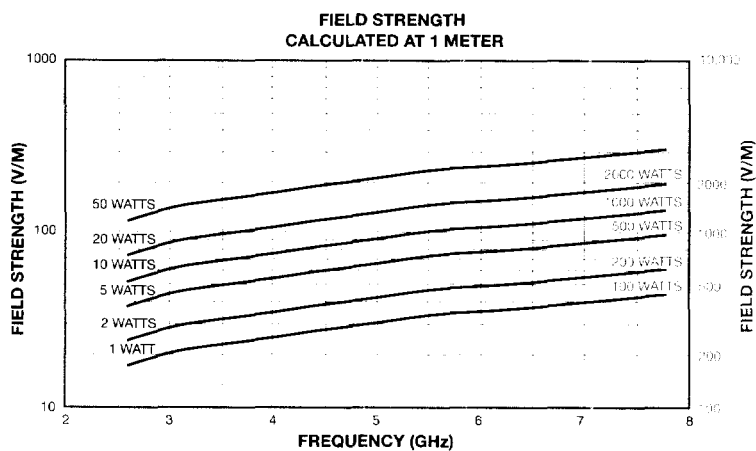
AT4218



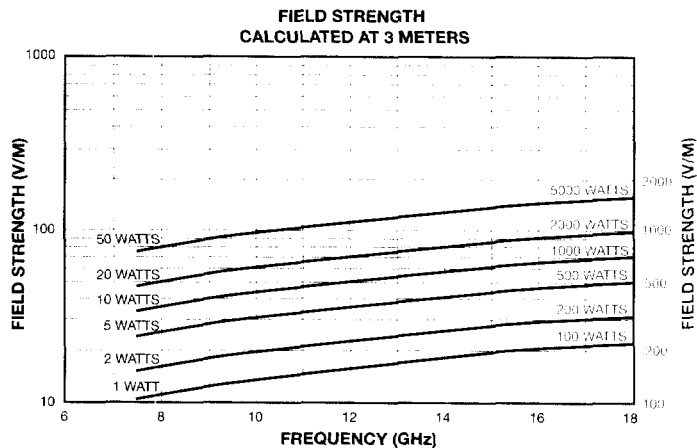
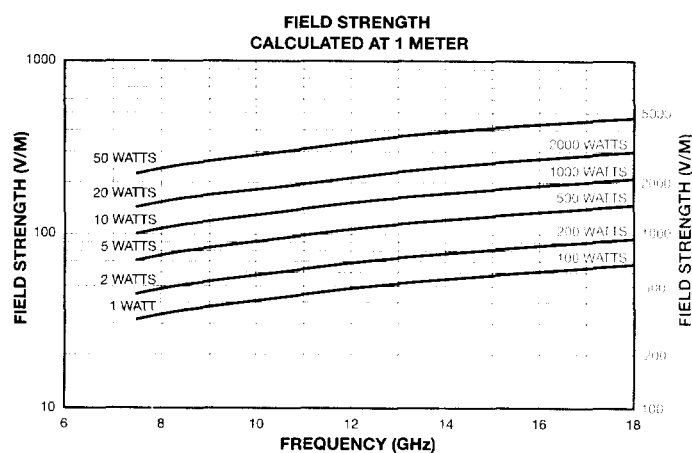
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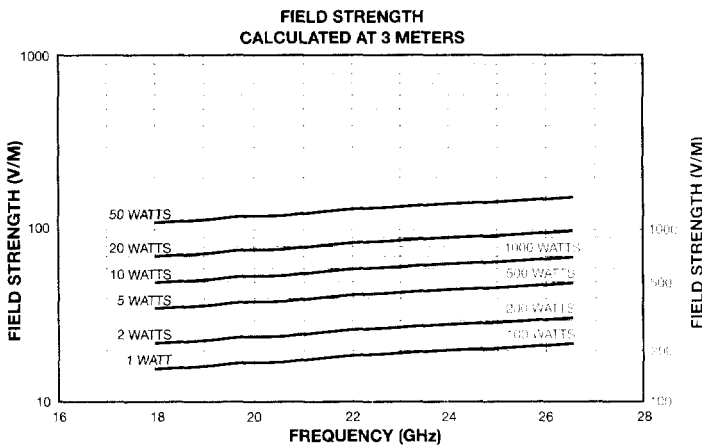
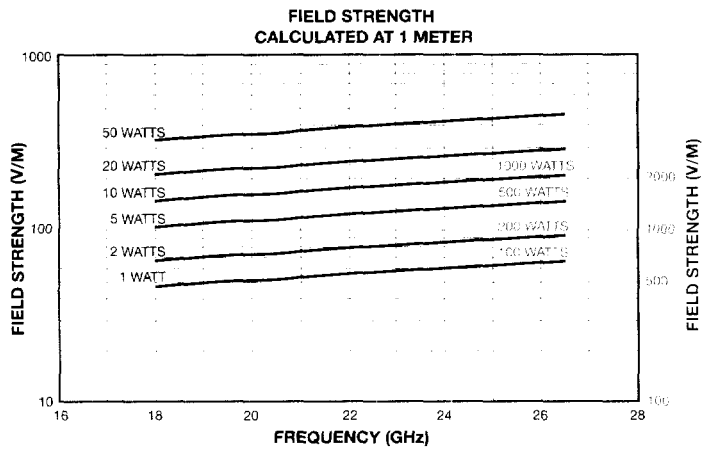
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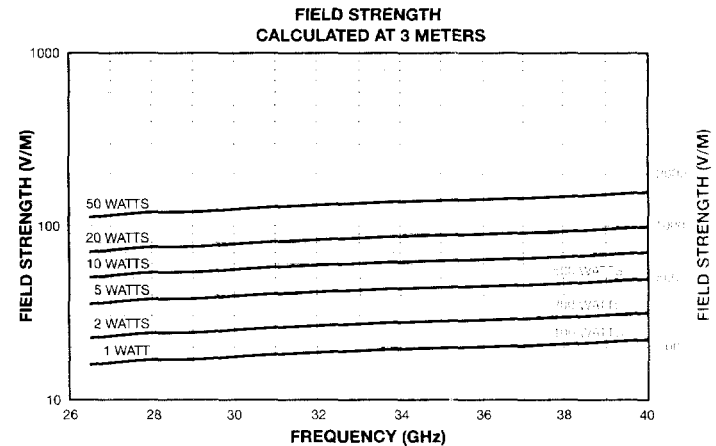
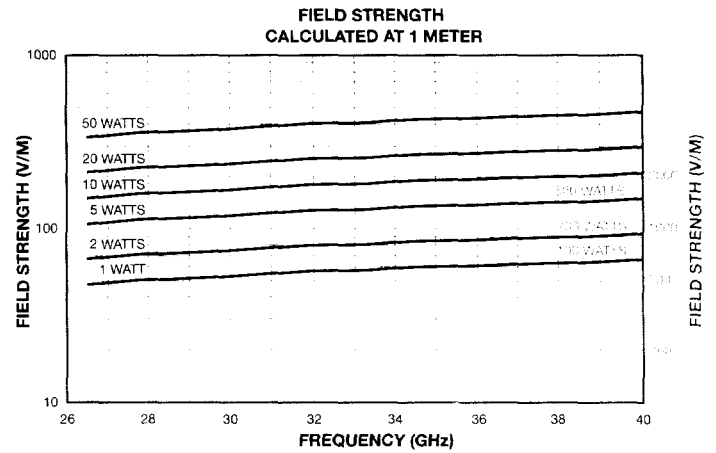
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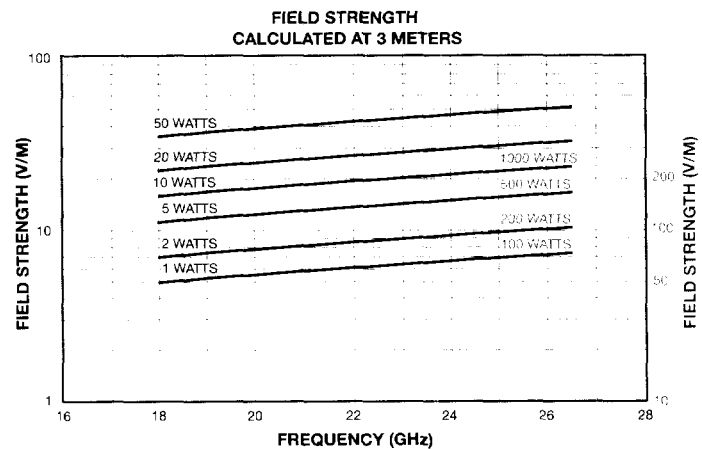
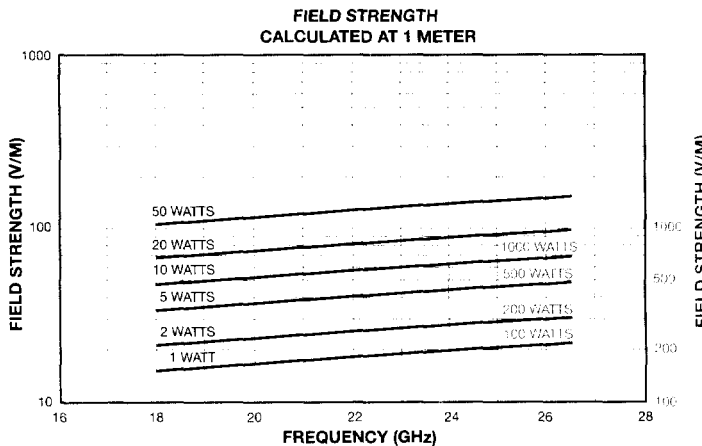
AT4540



AT4550



AT4640



AT4650

