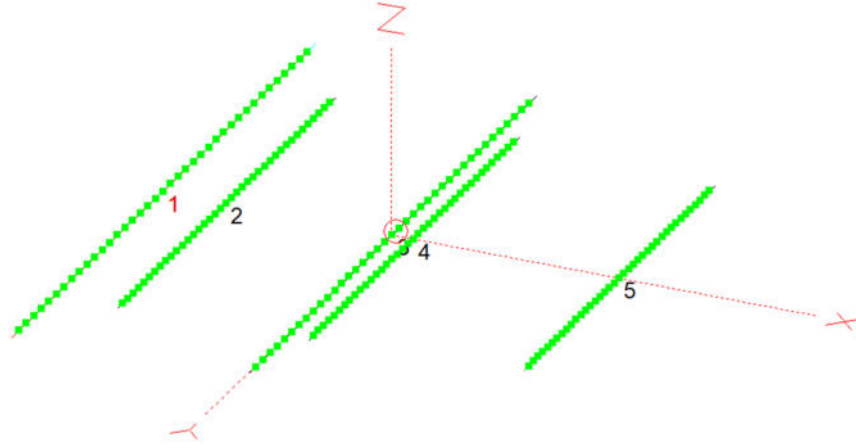
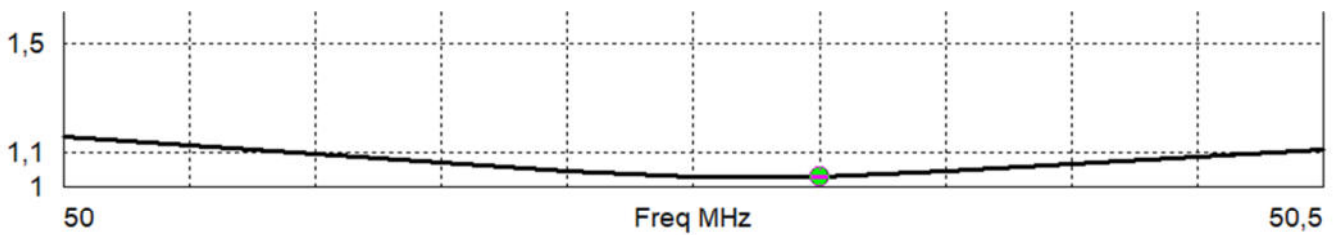
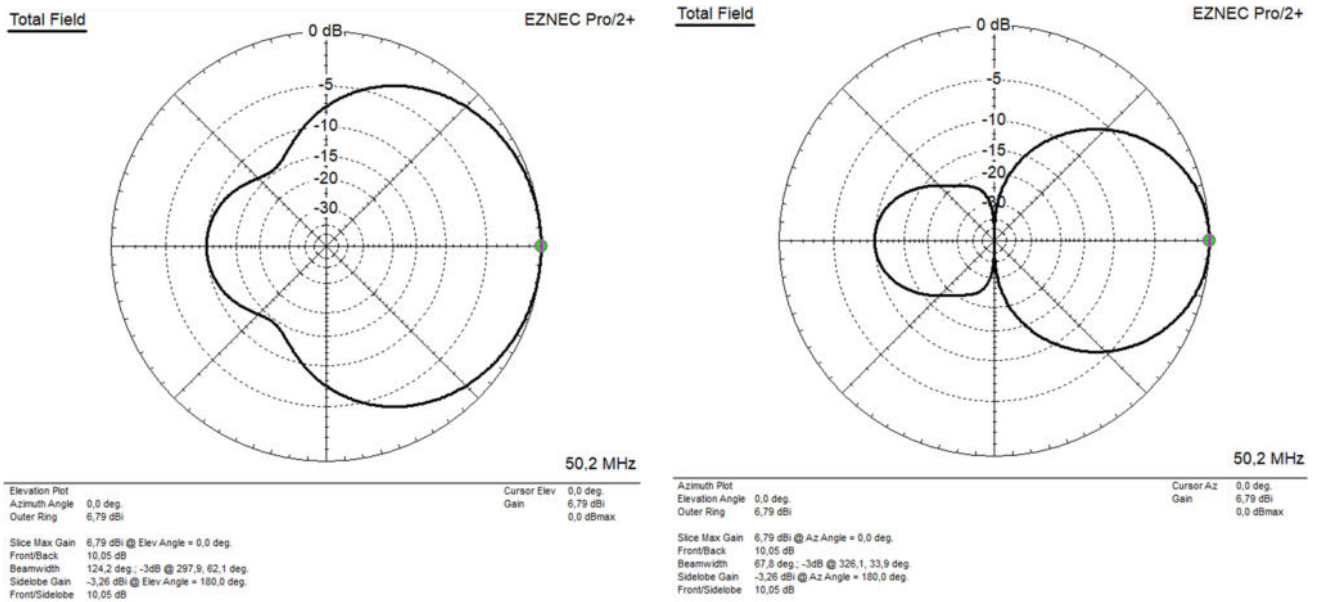


# 50 / 70MHz 5Element Duoband Yagi



**50MHz**

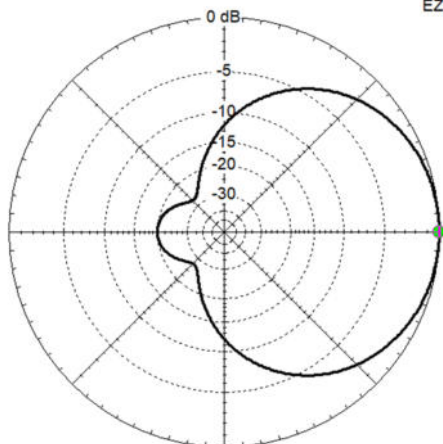


Freq	50,3 MHz	Source #	1
SWR	1,03	Z0	50 ohms
Z	49,49 at 1,57 deg. = 49,47 + j 1,352 ohms		
Refl Coeff	0,01458 at 110,47 deg. = -0,0051 + j 0,01366		
Ret Loss	36,7 dB		

# 50 / 70MHz 5Element Duoband Yagi

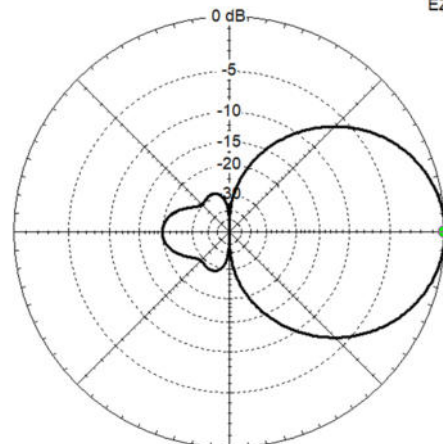
## 70MHz

Total Field



EZNEC Pro/2+

Total Field



EZNEC Pro/2+

70,1 MHz

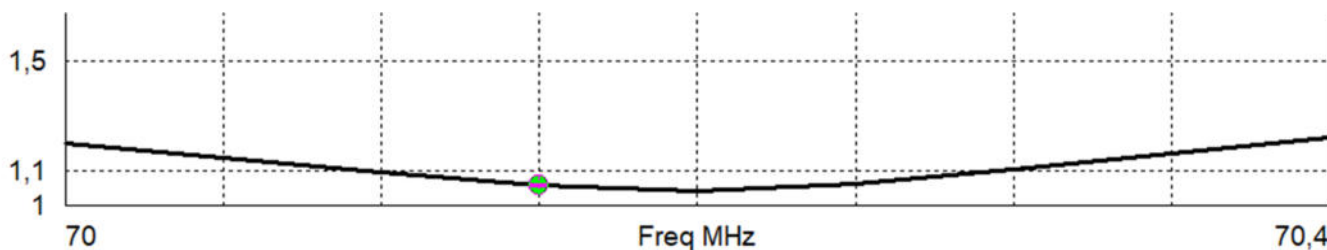
70,1 MHz

Elevation Plot  
Azimuth Angle 0.0 deg  
Outer Ring 8,09 dBi  
Slice Max Gain 8,09 dBi @ Elev Angle = 0.0 deg  
Front/Back 20,05 dB  
Beamwidth 100,8 deg; -3dB @ 309,6, 50,4 deg  
Sidelobe Gain -11,96 dBi @ Elev Angle = 180,0 deg  
Front/Sidelobe 20,05 dB

Cursor Elev  
Gain 8,09 dBi  
0,0 dBmax

Azimuth Plot  
Elevation Angle 0.0 deg  
Outer Ring 8,09 dBi  
Slice Max Gain 8,09 dBi @ Az Angle = 0.0 deg  
Front/Back 20,05 dB  
Beamwidth 63,1 deg; -3dB @ 328,4, 31,5 deg  
Sidelobe Gain -11,96 dBi @ Az Angle = 180,5 deg  
Front/Sidelobe 20,05 dB

Cursor Az  
Gain 8,09 dBi  
0,0 dBmax



Freq 70,15 MHz  
SWR 1,058  
Z 49,56 at -3,21 deg.  
= 49,48 - j 2,772 ohms  
Refl Coeff 0,02833 at -98,97 deg.  
= -0,004419 - j 0,02799  
Ret Loss 31,0 dB

Source # 1  
Z0 50 ohms

No.	End 1				Conn	End 2				Diameter (mm)	Segs	Insulation			Wire Loss		
	X (m)	Y (m)	Z (m)	Conn		X (m)	Y (m)	Z (m)	Conn			Diel C	Thk (mm)	Loss Tan	R (ohm-m)	Perm	Type
1	0	-1,46	8		0	1,46	8		12	40	1	0	0	4E-08	1	AI6061T6	
2	0,27	-1,05	8		0,27	1,05	8		12	40	1	0	0	4E-08	1	AI6061T6	
3	0,98	-1,38	8		0,98	1,38	8		12	40	1	0	0	4E-08	1	AI6061T6	
4	1,07	-1,012	8		1,07	1,012	8		12	40	1	0	0	4E-08	1	AI6061T6	
5	1,95	-0,915	8		1,95	0,915	8		12	40	1	0	0	4E-08	1	AI6061T6	

Boom 2000 mm, 20x2mm		no tapering	
Positions		Element lengths = total	
Start of Boom	0		
Refl. 6m	25	1460 x 2 = 2920 mm	
Refl. 4m	295	1050 x 2 = 2100 mm	
Driven Ele. 6m	1005	1380 x 2 = 2760 mm	
Dipol 4m	1095	1012 x 2 = 2024 mm	
Dir 4m	1975	915 x 2 = 1830 mm	
End of Boom	2000		

The 4m Dipol must be within +-1mm.