



QUICKYAGI v4.0 (Freeware version)

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```

OPERATING FREQUENCY..... {MHZ}      28.43
REFLECTOR LENGTH..... {m}           5.32974
FED ELEMENT LENGTH..... {m}         5.1406
REFLECTOR SPACING..... {m}          1.31902
#of DIRECTORS 3   RFL EL DIAM {mm}    19.05
D 1 SP {m} }     1.05522 D 1 LEN {m} }  4.96346
D 2 SP {m} }     1.50877 D 2 LEN {m} }  4.5152
D 3 SP {m} }     2.15725 D 3 LEN {m} }  4.30971
  
```

FORWARD GAIN = 9.22 dbi

F to B RATIO = 56.03 dB

INPUT IMPEDANCE =

18.9 -j 0.0 Ohms

ARRAY LENGTH = 6.04 m

Select Optimize

Bandwidth

Driven element

Gain/FB/Pattern

Esc: Abort

Spacebar: View changes..N



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OPERATING FREQUENCY..... {MHZ} 28.43
REFLECTOR LENGTH..... {m} 5.32974
FED ELEMENT LENGTH..... {m} 5.1406
REFLECTOR SPACING..... {m} 1.31902
#of DIRECTORS 3 RFL EL DIAM {mm} 19.05
D 1 SP {m} 1.05522 D 1 LEN {m} 4.96346
D 2 SP {m} 1.50877 D 2 LEN {m} 4.5152
D 3 SP {m} 2.15725 D 3 LEN {m} 4.30971
  
```

FORWARD GAIN = 9.22 dbi

F to B RATIO = 56.03 db

INPUT IMPEDANCE =

18.9 -j 0.0 Ohms

ARRAY LENGTH = 6.04 m

Select Optimize

Best gain/pattern

Spacings only

Lengths only

Esc: Abort



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```

OPERATING FREQUENCY..... {MHZ} 28.43
REFLECTOR LENGTH..... {m} 5.32974
FED ELEMENT LENGTH..... {m} 5.1406
REFLECTOR SPACING..... {m} 1.31902
#of DIRECTORS 3  Rf1 EL DIAM {mm} 19.05
D 1 SP {m} 1.05522  D 1 LEN {m} 4.96346
D 2 SP {m} 1.50877  D 2 LEN {m} 4.5152
D 3 SP {m} 2.15725  D 3 LEN {m} 4.30971
  
```

FORWARD GAIN = 9.22 dbi

F to B RATIO = 56.03 db

INPUT IMPEDANCE =

18.9 -j 0.0 Ohms

ARRAY LENGTH = 6.04 m

Select Target F/B

A 35 db

B 30 db

C 25 db

Esc: Abort



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```

OPERATING FREQUENCY..... {MHZ}      28.43
REFLECTOR LENGTH..... {m}          5.30949
FED ELEMENT LENGTH..... {m}        5.09337
REFLECTOR SPACING..... {m}         1.50409
#of DIRECTORS 3   RFL EL DIAM {mm}   19.05
D 1 SP {m} }     1.24799 D 1 LEN {m} } 4.96956
D 2 SP {m} }     1.70154 D 2 LEN {m} } 4.80207
D 3 SP {m} }     2.35002 D 3 LEN {m} } 4.67176
  
```

FORWARD GAIN = 10.32 dbi

F to B RATIO = 24.94 db

INPUT IMPEDANCE =

15.9 -j 0.0 Ohms

ARRAY LENGTH = 6.80 m

Choose Bandwidth

Wide

Average

No changes

Esc: Abort



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```

OPERATING FREQUENCY..... {MHZ} 28.43
REFLECTOR LENGTH..... {m} 5.30949
FED ELEMENT LENGTH..... {m} 5.09337
REFLECTOR SPACING..... {m} 1.50409
#of DIRECTORS 3 RFL EL DIAM {mm} 19.05
D 1 SP {m} 1.24799 D 1 LEN {m} 4.96956
D 2 SP {m} 1.70154 D 2 LEN {m} 4.80207
D 3 SP {m} 2.35002 D 3 LEN {m} 4.67176
  
```

FORWARD GAIN = 10.32 dbi

F to B RATIO = 24.94 db

INPUT IMPEDANCE =

15.9 -j 0.0 Ohms

ARRAY LENGTH = 6.80 m

F4: Optimize F6: BW

F3: Plot F5: Mode M

VGA

Metric

↑ ↓ ← → keys: Step highlight
 Ctrl+Q: Quit Esc: Restart

F1: Files

F2: Options



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```

OPERATING FREQUENCY..... {MHZ} 28.43
REFLECTOR LENGTH..... {m} 5.28466
FED ELEMENT LENGTH..... {m} 5.07694
REFLECTOR SPACING..... {m} 1.59577
#of DIRECTORS 3  Rf1  EL  DIAM {mm} 19.05
D 1 SP {m} } 1.33012  D 1 LEN {m} } 4.95079
D 2 SP {m} } 1.78176  D 2 LEN {m} } 4.80080
D 3 SP {m} } 2.43023  D 3 LEN {m} } 4.67399
  
```

FORWARD GAIN = 10.48 dbi

F to B RATIO = 24.91 db

INPUT IMPEDANCE =

17.2 +j 0.0 Ohms

ARRAY LENGTH = 7.14 m

F4: Optimize F6: BW

F3: Plot F5: Mode M

VGA

Metric

↑ ↓ ← → keys: Step highlight
 Ctrl+Q: Quit Esc: Restart

F1: Files

F2: Options



QUICKYAGI v4.0 (Freeware version)

Freq. (MHz)	Gain(dBi)	F/B(dB)	Input res. & react. (Ω)	VSWR
28.785	10.560	14.537	13.870	2.87:1
28.750	10.571	15.223	14.057	2.58:1
28.714	10.577	15.959	14.281	2.32:1
28.679	10.578	16.751	14.541	2.08:1
28.643	10.574	17.608	14.833	1.86:1
28.608	10.567	18.539	15.157	1.67:1
28.572	10.556	19.559	15.508	1.50:1
28.537	10.541	20.684	15.886	1.35:1
28.501	10.524	21.934	16.288	1.22:1
28.466	10.504	23.336	16.712	1.10:1
28.430	10.483	24.915	17.155	1.00:1
28.394	10.459	26.681	17.616	1.09:1
28.359	10.434	28.569	18.091	1.19:1
28.323	10.408	30.281	18.578	1.30:1
28.288	10.381	31.108	19.074	1.41:1
28.252	10.353	30.507	19.577	1.52:1
28.217	10.325	28.960	20.083	1.63:1
28.181	10.296	27.197	20.589	1.74:1
28.146	10.267	25.543	21.093	1.85:1
28.110	10.238	24.072	21.592	1.97:1
28.075	10.209	22.777	22.080	2.08:1

P: Print

G: Graph

B: BW Plot

Esc: Exit

File:

MHZ 28.78 28.71 28.64 28.57 28.50 28.43 28.35 28.28 28.21 28.14 28.07

dB

45

40

35

30

25

20

15

10

5

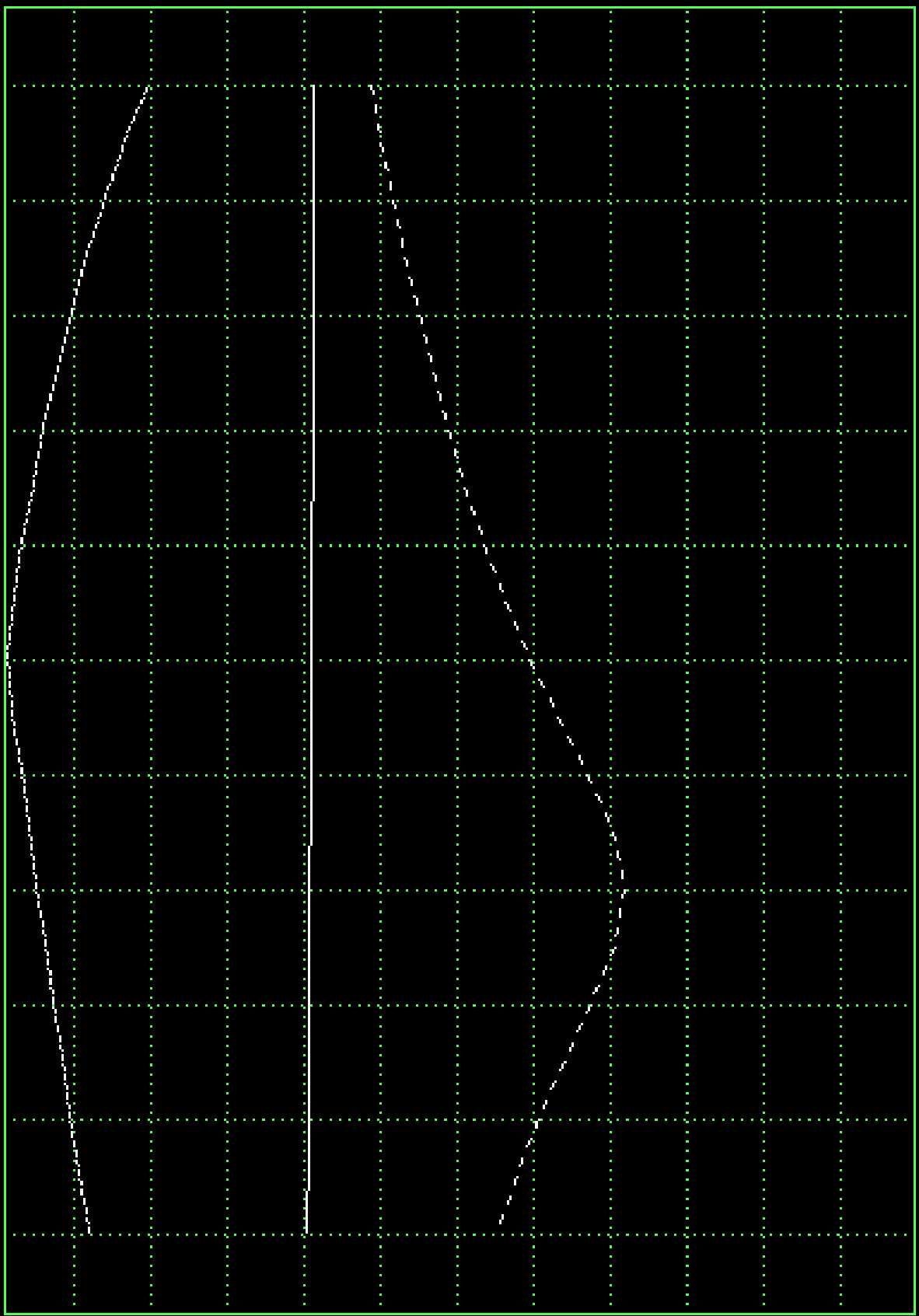
0

3:1

-5

2:1

USWR



F/B

Gain

USWR



QUICKYAGI v4.0 (Freeware version)

Freq. (MHz)	Gain(dBi)	F/B(db)	Input res. & react. (Ω)	VSWR	
28.785	10.420	20.684	22.539	+j 13.46	1.77:1
28.750	10.398	21.703	23.023	+j 11.96	1.65:1
28.714	10.375	22.827	23.524	+j 10.49	1.55:1
28.679	10.351	24.077	24.036	+j 9.06	1.46:1
28.643	10.325	25.481	24.559	+j 7.65	1.37:1
28.608	10.299	27.071	25.090	+j 6.28	1.30:1
28.572	10.272	28.875	25.625	+j 4.95	1.22:1
28.537	10.245	30.873	26.163	+j 3.65	1.16:1
28.501	10.218	32.847	26.701	+j 2.38	1.10:1
28.466	10.190	34.098	27.235	+j 1.15	1.05:1
28.430	10.163	33.779	27.763	-j 0.05	1.00:1
28.394	10.135	32.223	28.283	-j 1.21	1.05:1
28.359	10.108	30.349	28.792	-j 2.34	1.09:1
28.323	10.081	28.595	29.287	-j 3.44	1.14:1
28.288	10.055	27.054	29.765	-j 4.50	1.19:1
28.252	10.029	25.713	30.224	-j 5.53	1.23:1
28.217	10.003	24.539	30.662	-j 6.54	1.28:1
28.181	9.978	23.502	31.076	-j 7.51	1.32:1
28.146	9.953	22.575	31.464	-j 8.45	1.37:1
28.110	9.929	21.739	31.823	-j 9.37	1.41:1
28.075	9.906	20.978	32.151	-j 10.27	1.45:1

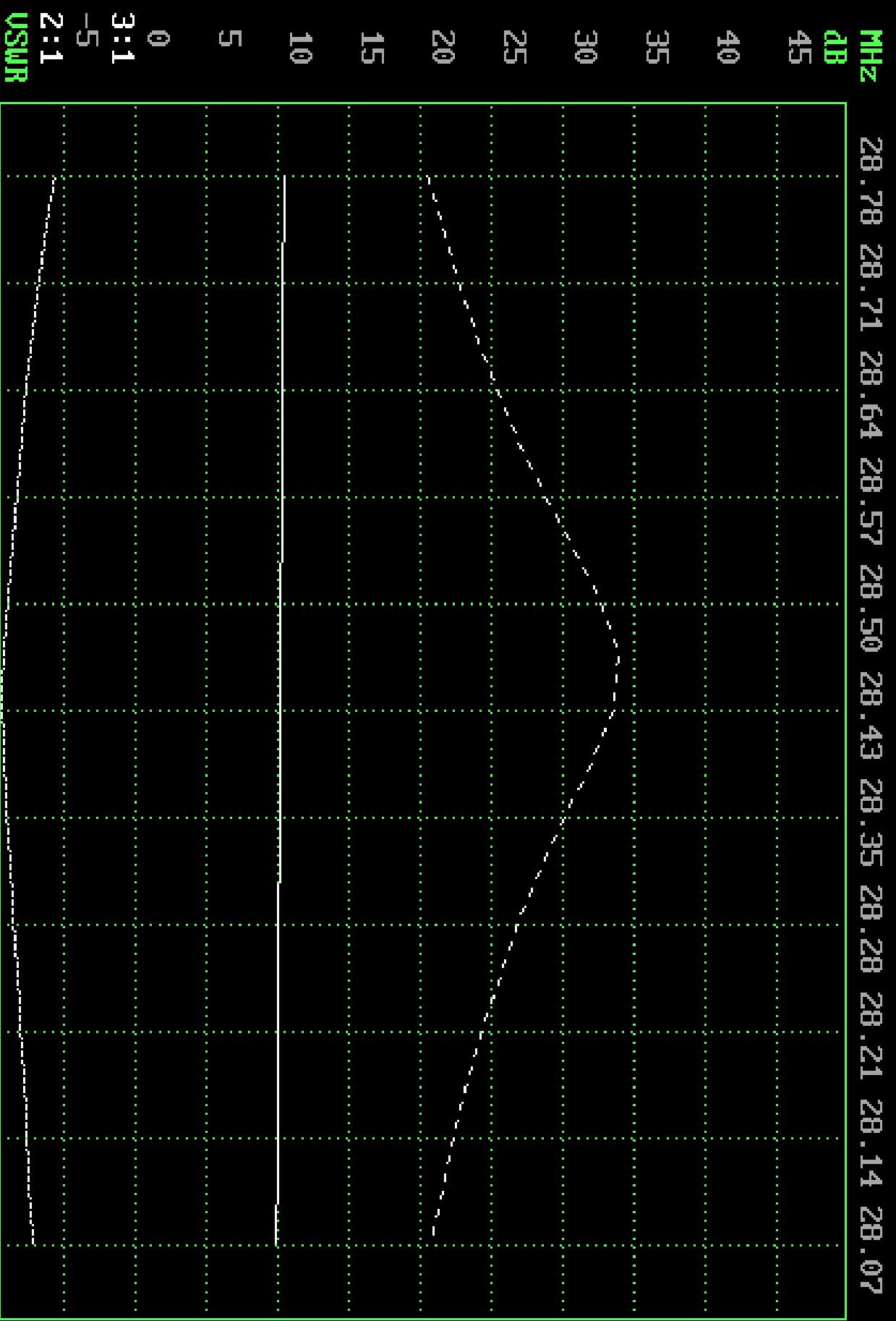
P: Print

G: Graph

B: BW Plot

Esc: Exit

File:



F/B

Gain

USWR

USWR

2:1

-5

3:1

0

5

10

15

20

25

30

35

40

45

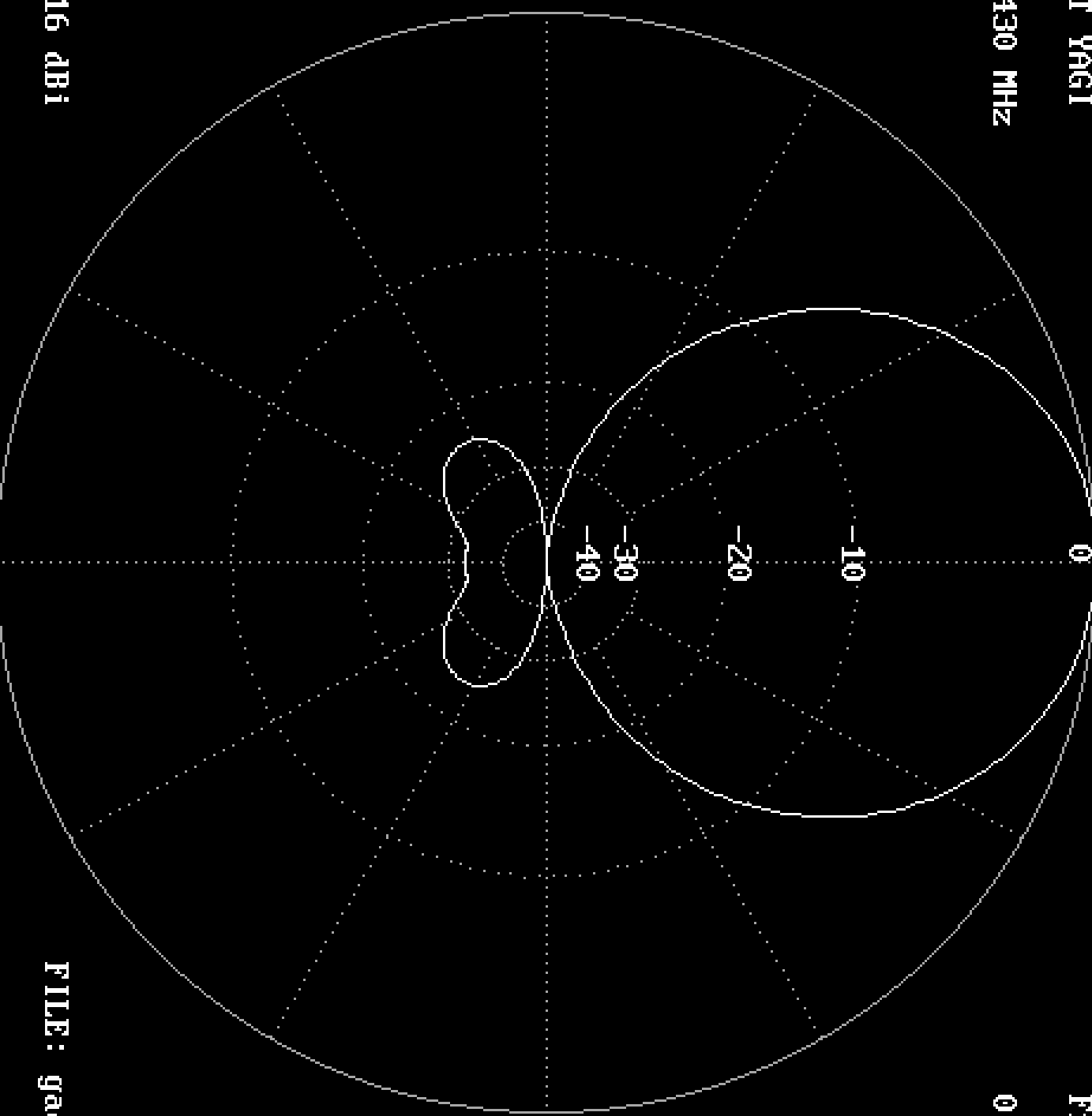
MHz

5 ELEMENT YAGI

FREQ: 28.430 MHz

Free space

0° Azimuth



3 dB BEAMWIDTH = 10.16 DBi

3 dB BEAMWIDTH = 58.3°

FILE: gadx.ant

SCALE: 0 to -50 dB (log)


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```

OPERATING FREQUENCY..... {MHZ}      28.43
REFLECTOR LENGTH..... {m}           5.34374
FED ELEMENT LENGTH..... {m}         5.08544
REFLECTOR SPACING..... {m}          1.59577
#of DIRECTORS 3   Rf1 EL DIAM {mm}    19.05
D 1 SP {m} }     1.33012 D 1 LEN {m} }  4.87283
D 2 SP {m} }     1.78176 D 2 LEN {m} }  4.73686
D 3 SP {m} }     2.43023 D 3 LEN {m} }  4.59735
  
```

FORWARD GAIN = 10.16 dbi

F to B RATIO = 33.78 db

INPUT IMPEDANCE =

27.8 -j 0.0 Ohms

ARRAY LENGTH = 7.14 m

Options Menu

Change to Ft/In

Fed element Options

Scaler

Element compensation

Ctrl+Q: Quit

Esc: Exit

V: View Ant.



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```

OPERATING FREQUENCY..... {MHZ} 28.43
REFLECTOR LENGTH..... {m} 5.34374
FED ELEMENT LENGTH..... {m} 5.08544
REFLECTOR SPACING..... {m} 1.59577
#of DIRECTORS 3  Rf1 EL DIAM {mm} 19.05
D 1 SP {m} 1.33012  D 1 LEN {m} 4.87283
D 2 SP {m} 1.78176  D 2 LEN {m} 4.73686
D 3 SP {m} 2.43023  D 3 LEN {m} 4.59735
  
```

FORWARD GAIN = 10.16 dbi

F to B RATIO = 33.78 db

INPUT IMPEDANCE =

27.8 -j 0.0 Ohms

ARRAY LENGTH = 7.14 m

Select Fed Element

Simple dipole 1

Folded dipole

Exit no change

Esc: Exit



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```

OPERATING FREQUENCY..... {MHZ}      28.43
REFLECTOR LENGTH..... {m}           5.34374
FED ELEMENT LENGTH..... {m}        5.08544
REFLECTOR SPACING..... {m}         1.59577
#of DIRECTORS 3   RFL EL DIAM {mm}   19.05
D 1 SP {m} }     1.33012 D 1 LEN {m} } 4.87283
D 2 SP {m} }     1.78176 D 2 LEN {m} } 4.73686
D 3 SP {m} }     2.43023 D 3 LEN {m} } 4.59735
  
```

FORWARD GAIN = 10.16 dbi

F to B RATIO = 33.78 db

INPUT IMPEDANCE =

27.8 -j 0.0 Ohms

ARRAY LENGTH = 7.14 m

Element Compensation

Boom Compensation

_dit Taper Schedule

View E1. Resonance

Esc: Exit



QUICKYAGI v4.0 (Freeware version)

Select Comp

Append Existing Bm Comp Add Comp to E1. Lengths

SELECT Element/Boom Conditions:

Element placement:

Through boom on the boom

Boom type:

Square Round

BOOM / HARDWARE COMPENSATION

S E B: Select Esc: abort Enter: OK



QUICKYAGI v4.0 (Freeware version)

Compensation for elements on a round boom

Enter the boom diameter (mm)

[Esc] abort



QUICKYAGI v4.0 (Freeware version)

Compensation for elements on a round boom

Enter the boom diameter (mm)

50.8

Enter mounting plate length (mm)

0

0 = no plate

[Esc] abort



QUICKYAGI v4.0 (Freeware version)

Element	Computed Length	Compensation
Ref1	5.34374 m	3.06000 mm
Dref1	5.08544 m	3.06000 mm
Dir1	4.872836 m	3.06000 mm
Dir2	4.73686 m	3.06000 mm
Dir3	4.597357 m	3.06000 mm

R: Re-calc & exit

Esc: Cancel



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GADX.ANT

OPERATING FREQUENCY.....	{MHZ}	28.43	
REFLECTOR LENGTH.....	{ m }	5.3468	
FED ELEMENT LENGTH.....	{ m }	5.0885	
REFLECTOR SPACING.....	{ m }	1.59577	
#of DIRECTORS	3	RF1 EL DIAM {mm}	19.05
D 1 SP { m }	1.33012	D 1 LEN { m }	4.87589
D 2 SP { m }	1.78176	D 2 LEN { m }	4.73992
D 3 SP { m }	2.43023	D 3 LEN { m }	4.60041

FORWARD GAIN = 10.16 dbi

F to B RATIO = 33.78 db

INPUT IMPEDANCE = 27.8 -j 0.0 Ohms

ARRAY LENGTH = 7.14 m

Options Menu

- C**hange to Ft/In
- F**ed element Options
- S**caler
- E**lement compensation

Ctrl+Q: Quit

Esc: Exit

V: View Ant.



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GAD3.ANT

```

OPERATING FREQUENCY..... {MHZ} 28.43
REFLECTOR LENGTH..... {m} 5.3468
FED ELEMENT LENGTH..... {m} 5.0885
REFLECTOR SPACING..... {m} 1.59577
#of DIRECTORS 3 RFL EL DIAM {mm} 19.05
D 1 SP {m} 1.33012 D 1 LEN {m} 4.87589
D 2 SP {m} 1.78176 D 2 LEN {m} 4.73992
D 3 SP {m} 2.43023 D 3 LEN {m} 4.60041
  
```

FORWARD GAIN = 10.16 dbi

F to B RATIO = 33.78 db

INPUT IMPEDANCE =

27.8 -j 0.0 Ohms

ARRAY LENGTH = 7.14 m

Element Compensation

Boom Compensation

_dit Taper Schedule

View E1. Resonance

Esc: Exit



QUICKYAGI v4.0 (Freeware version)

Calculated resonant frequencies for all elements

* Assuming equal element diameters, taper, etc.,
and the driven element is resonant (j=0) at 28.43 MHz

Ref1	Length =	5.3468	{ m }	Resonant Freq =	27.05657	MHZ
Dir1	Length =	5.0885	{ m }	Resonant Freq =	28.43	MHZ
Dir2	Length =	4.875896	{ m }	Resonant Freq =	29.66964	MHZ
Dir3	Length =	4.73992	{ m }	Resonant Freq =	30.52078	MHZ
		4.600417	{ m }	Resonant Freq =	31.44629	MHZ

File: GADK.ANT

Frequency: 28.43 MHz

Fwd Gain: 10.16 dBi

F/B ratio: 33.78 dB

Array Length: 7.14 Metres

MELHOR AMIGO PP5JR



MAIOR INCENTIVADOR PY5EG



MENTOR PP5UA



AMIGOS E COLABORADORES ZX5J

PP5MCB - MAURO



AMIGOS E COLABORADORES ZX5J

PP5VB - BARBOSA



AMIGOS E COLABORADORES ZX5J

PP5KE – KELMER



AMIGOS E COLABORADORES ZX5J

PY3FOX - CHRISTIAN



AMIGOS E COLABORADORES ZX5J

PY3DX - TOLEDO



AMIGOS E COLABORADORES ZX5J

PY3NZ - CLÁUDIO



AMIGOS E COLABORADORES ZX5J

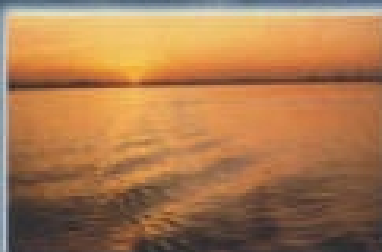
PY3MM - MIGUEL



AMIGOS E COLABORADORES ZX5J

PY3CQ - ÁLVARO

PY3CQ



AMIGOS E COLABORADORES ZX5J

PY3KN - CAIPER



AMIGOS E COLABORADORES ZX5J

IV3NVN - SIMONE



AMIGOS E COLABORADORES ZX5J

- GRUPO PIONEIROS DA BOA VISTA
- PP5UB - FERNANDO
- PY5ZBU - DON
- PY5EJ – PAVANATTI
- N5FA – JIM
- ZD8Z – JIM NIGER

MUITO OBRIGADO!
BTU 73s DE PP5WG

