

EXAMPLE1.NEC - 4nec2 Edit

File Cell Rows Selection Options

Symbol/Variable with value or equation

Symbols

Geometry

Source/Load

Freq./Ground

Others

Symbols and equations

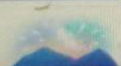
| Nr | comment            |
|----|--------------------|
| 1  | $\lambda = 1$      |
| 2  | $L = 0.46 \lambda$ |
| 3  | $d = 0.5 \lambda$  |
|    |                    |
|    |                    |

Scaling

☒ Meters ☐ Feet ☐ Inch ☐ Wave-length ☐ Custom Factor 1.0



Type here to search



Construction on K B J...

ENG 05:23:0





Default straight line wire-element

Symbols

Geometry

Source/Load

Freq./Ground

Others

Geometry (Scaling=Meters)

| Nr | Type | Tag | Segs | X1   | Y1     | Z1 | X2  | Y2     | Z2 | Radius |  |  |  | comment             |
|----|------|-----|------|------|--------|----|-----|--------|----|--------|--|--|--|---------------------|
| 1  | Wire | 1   | 31   | -L/2 | 0.5*d  | 0  | L/2 | 0.5*d  | 0  | 0.0001 |  |  |  | Wire 1, 9 segments. |
| 2  | Wire | 2   | 31   | -L/2 | -0.5*d | 0  | L/2 | -0.5*d | 0  | 0.0001 |  |  |  | Wire 1, 9 segments. |
| 3  | Wire | 3   | 31   | -L/2 | 1.5*d  | 0  | L/2 | 1.5*d  | 0  | 0.0001 |  |  |  | Wire 1, 9 segments. |
| 4  | Wire | 4   | 31   | -L/2 | -1.5*d | 0  | L/2 | -1.5*d | 0  | 0.0001 |  |  |  | Wire 1, 9 segments. |



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Construction on K B J...





Magnitude of peak-voltage/current in Volts/Ampere

| Symbols   |             |     | Geometry |       |      | Source/Load |      |       | Freq./Ground |  | Others                             |  |
|-----------|-------------|-----|----------|-------|------|-------------|------|-------|--------------|--|------------------------------------|--|
| Source(s) |             |     |          |       |      |             |      |       |              |  |                                    |  |
| Nr        | Type        | Tag | Seg      | (opt) | Real | Imag        | Magn | Phase | (norm)       |  | comment                            |  |
| 1         | Voltage-src | 1   | 16       | 0     | 1    | 0           | 1    | 0     | 0            |  |                                    |  |
| 2         | Voltage-src | 2   | 16       | 0     | 1    | 0           | 1    | 0     | 0            |  | Voltage source (1+0) at wire 1 seg |  |
| 3         | Voltage-src | 3   | 16       | 0     | 1    | 0           | 1    | 0     | 0            |  | Voltage source (1+0) at wire 1 seg |  |
| 4         | Voltage-src | 4   | 16       | 0     | 1    | 0           | 1    | 0     | 0            |  | Voltage source (1+0) at wire 1 seg |  |
|           |             |     |          |       |      |             | 1    | 0     | 0            |  | Voltage source (1+0) at wire 1 seg |  |

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Construction on K B J...





EXAMPLE1.NEC - 4nec2 Edit

File Cell Rows Selection Options

Symbols

Geometry

Source/Load

Freq./Ground

Others

Upd Ins Del

Comment

### Frequency

Frequency  Mhz

Nr steps  ☐ Sweep

Stepsize

### Environment

Ground / Free-space

☐ Connect wire(s) for Z=0 to ground

### Main ground

Ground type

Conductivity

Diel constant

☐ Use ground-screen

☐ Use second ground

### Ground screen

Nr of radials

Radial length  mtr

Wire radius  mm

### Second ground

Ground type

Conductivity

Diel constant

Distance  mtr

Depth  mtr

☐ Circular boundary

☐ Perpendicular to Y-axis

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Construction on K B J...

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23-04-2025



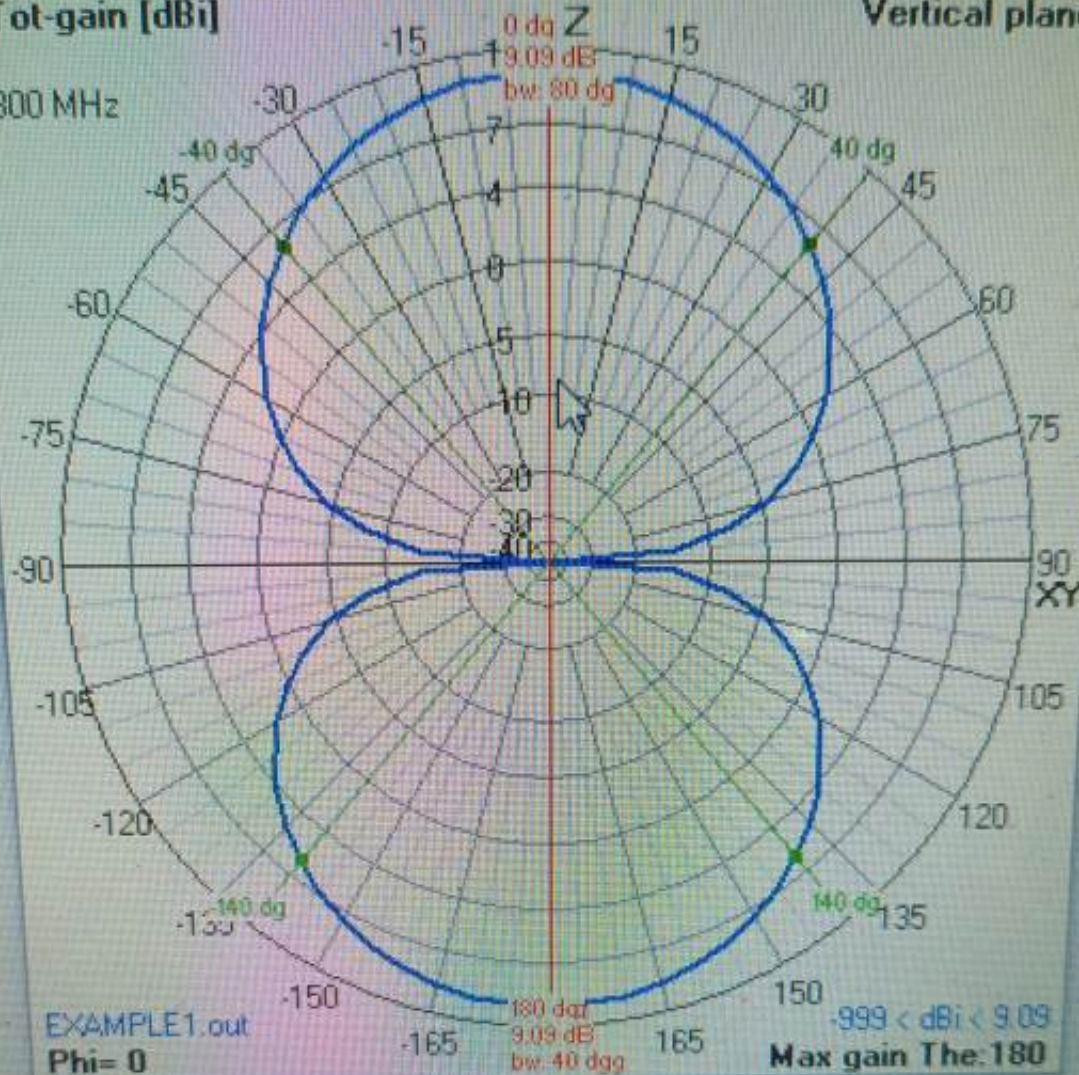
Pattern (F4)

Show Far field Near field Compare Transfer Fftab Plot

Tot-gain [dBi]

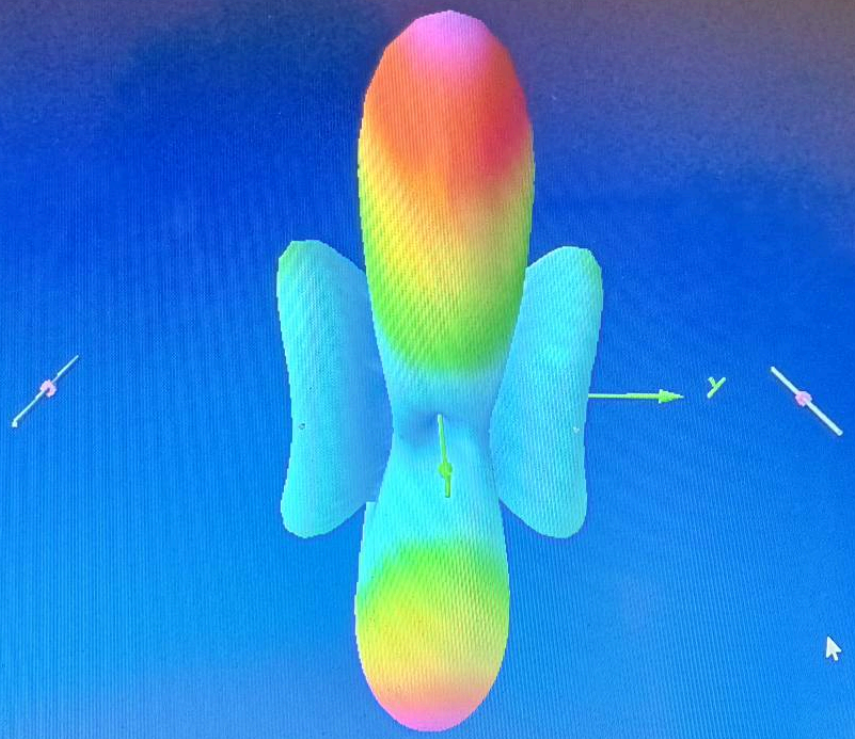
Vertical plane

300 MHz





[EXAMPLE1.out]



- ☐ Stru
- ☐ Mult
- ☐ Tot-g
- ☒ ARI
- ☐ Magni

Quality

|     |      |
|-----|------|
| FPS | Tr's |
| 60  | 7776 |

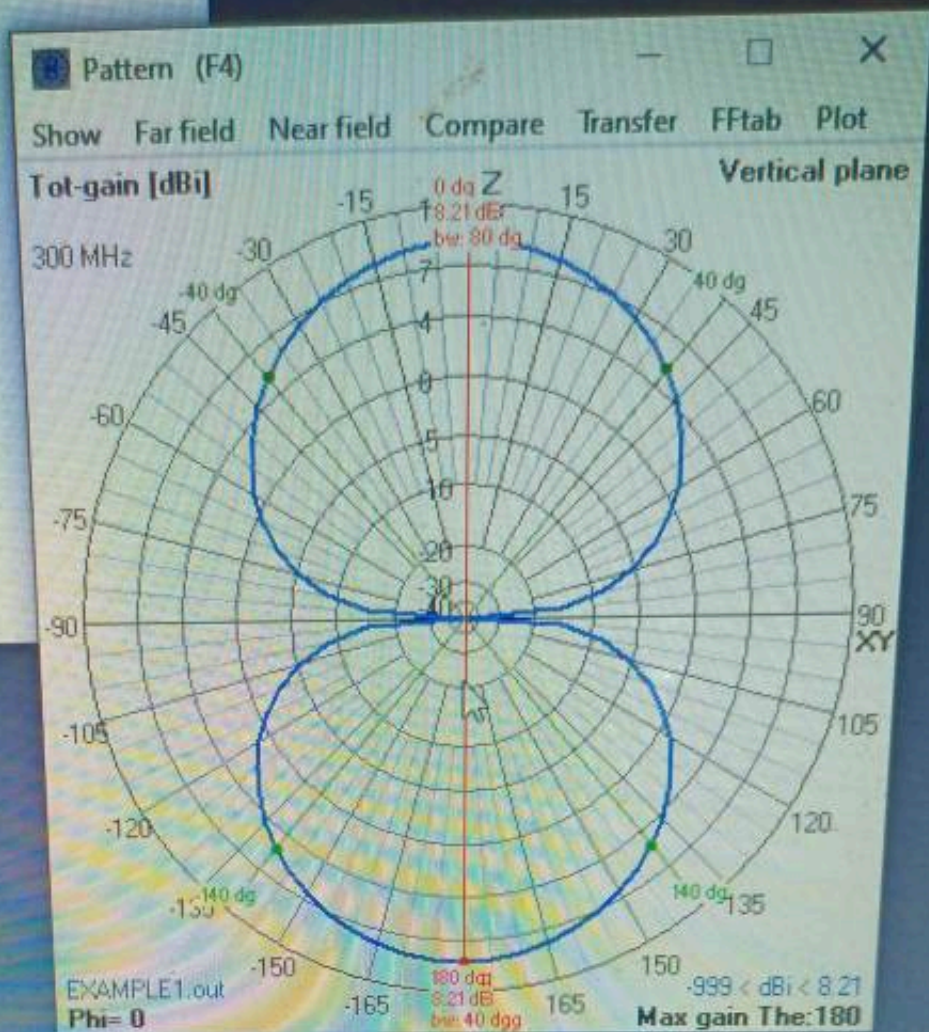




| Symbols   |             |     |     |       | Geometry |      | Source/Load |       |        |  | Freq./Ground                        | Others                              |
|-----------|-------------|-----|-----|-------|----------|------|-------------|-------|--------|--|-------------------------------------|-------------------------------------|
| Source(s) |             |     |     |       |          |      |             |       |        |  |                                     | <input checked="" type="checkbox"/> |
| Nr        | Type        | Tag | Seg | (opt) | Real     | Imag | Magn        | Phase | (norm) |  | comment                             |                                     |
| 1         | Voltage-src | 1   | 16  | 0     | 3        | 0    | 3           | 0     | 0      |  | Voltage source (1+j0) at wire 1 seg |                                     |
| 2         | Voltage-src | 2   | 16  | 0     | 3        | 0    | 1           | 0     | 0      |  | Voltage source (1+j0) at wire 1 seg |                                     |
| 3         | Voltage-src | 3   | 16  | 0     | 1        | 0    | 1           | 0     | 0      |  | Voltage source (1+j0) at wire 1 seg |                                     |
| 4         | Voltage-src | 4   | 16  | 0     | 1        | 0    | 1           | 0     | 0      |  | Voltage source (1+j0) at wire 1 seg |                                     |
|           |             |     |     |       |          |      |             |       |        |  |                                     |                                     |







Axis : 0.5 mtr

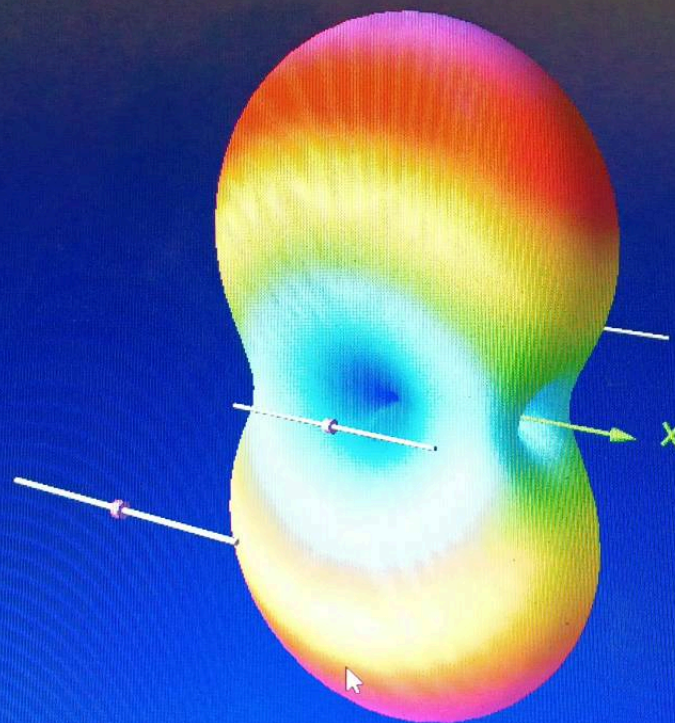
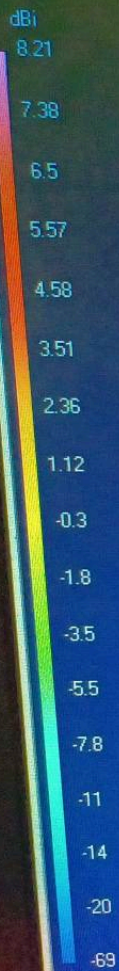
Dog loves to jump wi...

ENG

05:51 PM  
23-04-2025







300 Mhz  
Axis 0.5 m  
Theta Phi  
74 305  
< zoom >  
Ident Res  
Pole Col  
☐ True rad  
☒ Axis  
☒ Ground  
☒ Surfaces  
Structure  
Multi-cho  
Tot-gain  
☒ APRL style  
Magnitude

Quality  
FPS Tr's  
60 7776



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Dog loves to jump wi...

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