SPECIFICATION

CPY-9124-50cm-TNC/F

(800/900/1800/1900MHz)

一. ELECTRONICAL:

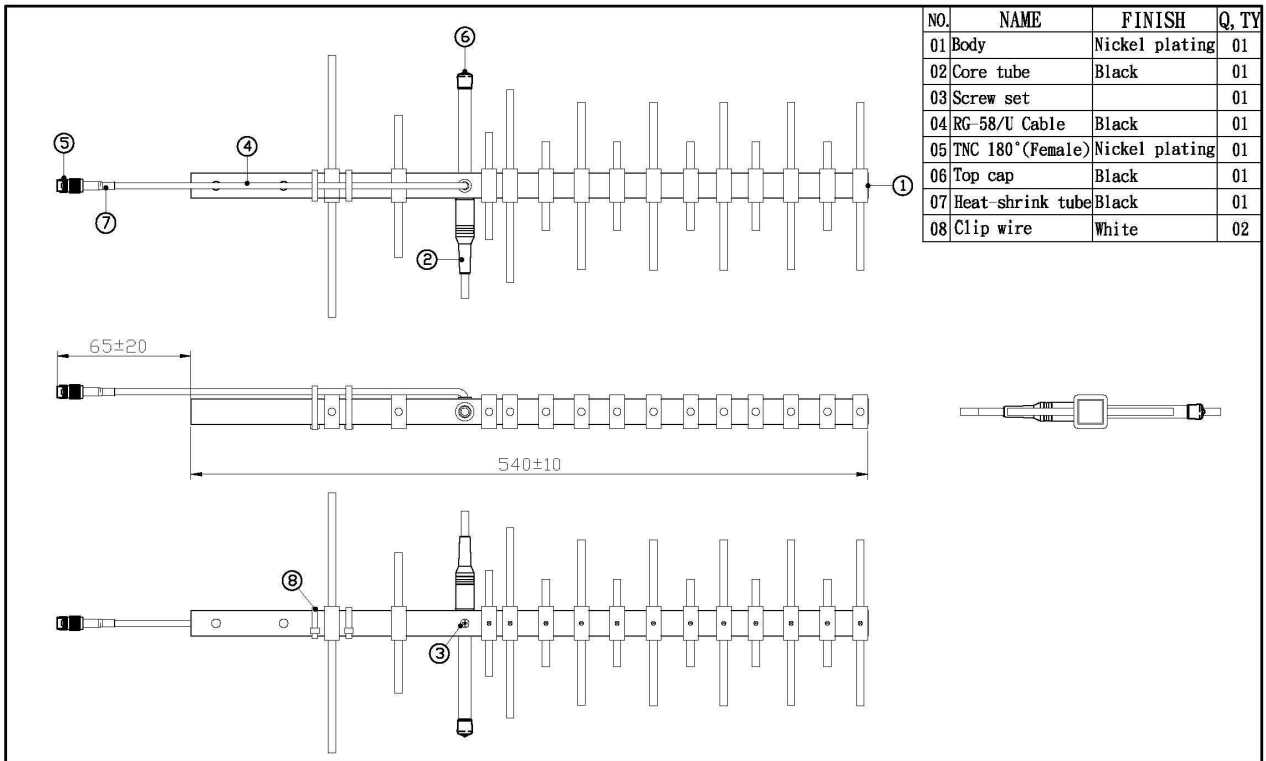
1. **ANTENNA TYPE 天線型式: Yagi Antenna**
2. **FREQUENCY 頻率:800/900/1800/1900 MHz**
3. **IMPEDANCE 阻抗: 50 Ohm**
4. **POLARISATION 極: Verticle**
5. **GAIN: 8**
6. **SWR: 2.0：1**
7. **MAX.POWER 最大功率: 50W**
8. **Cable:RG58U 0.5M**

二. MECHANICAL:

1. **MATERIALS 材質: 鋁**
2. **COLOR 顏色: 銀**
3. **TOTAL HEIGHT 總長度: 540m/m±10**

4. WEIGHT 重量:

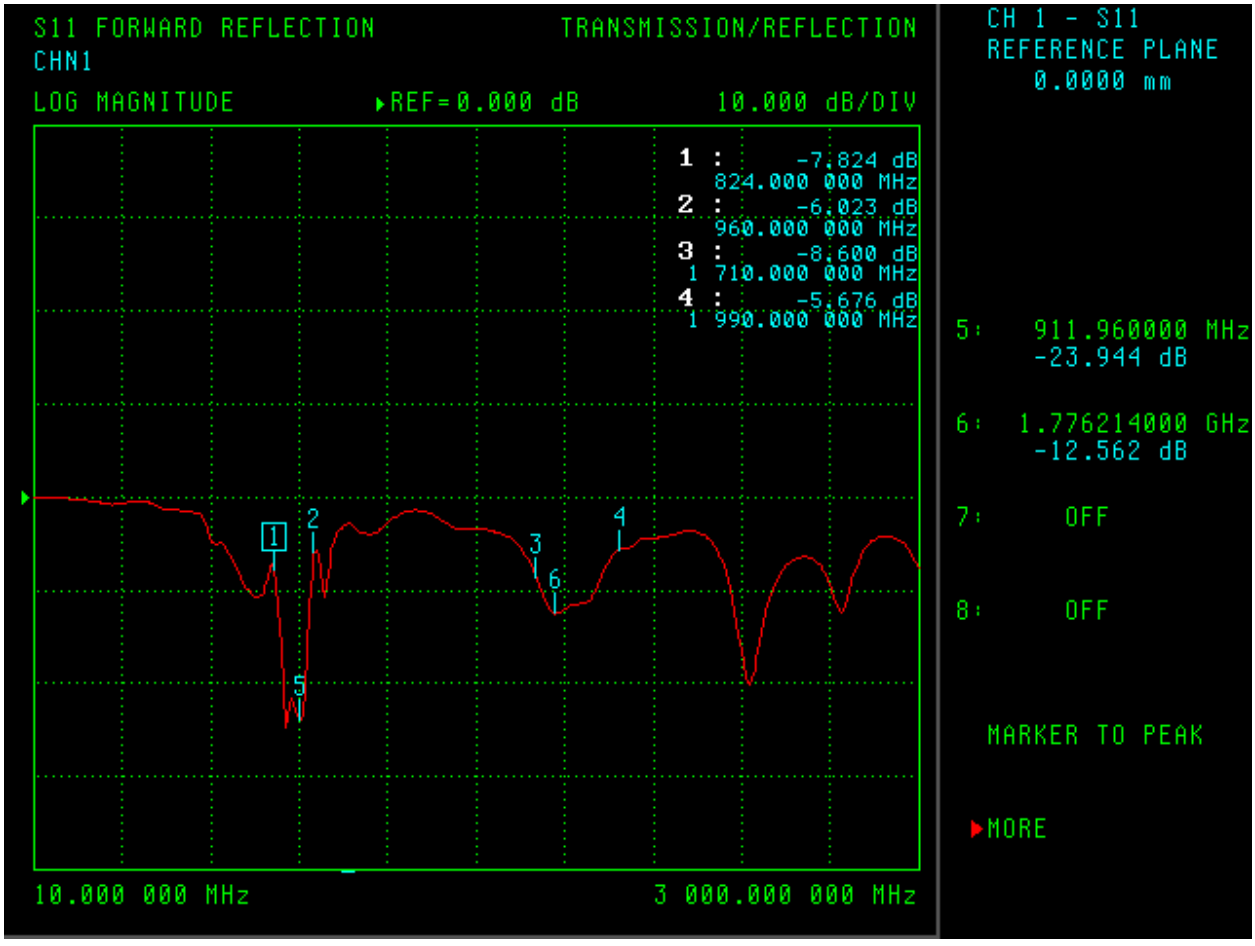
1. APPEARANCE:

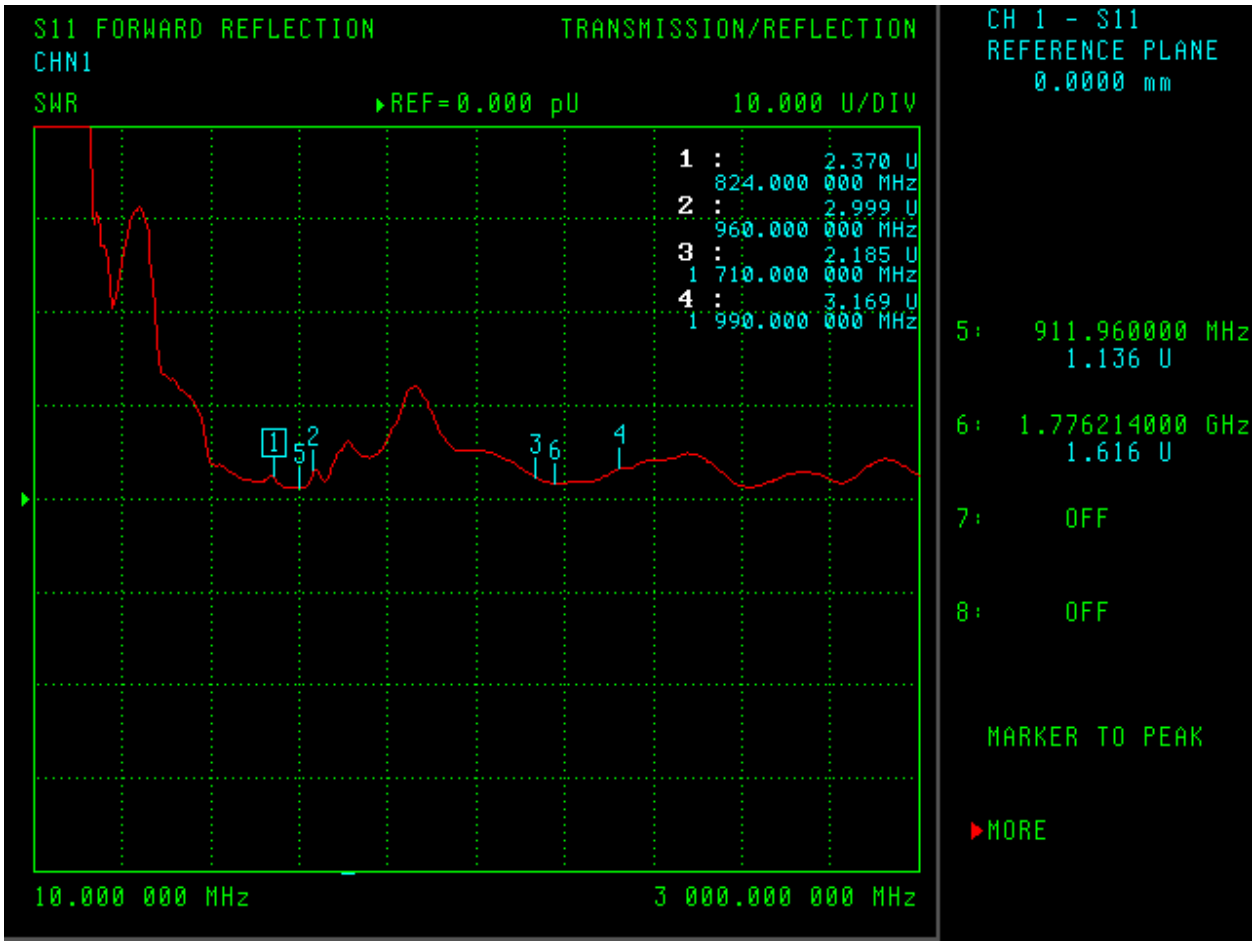


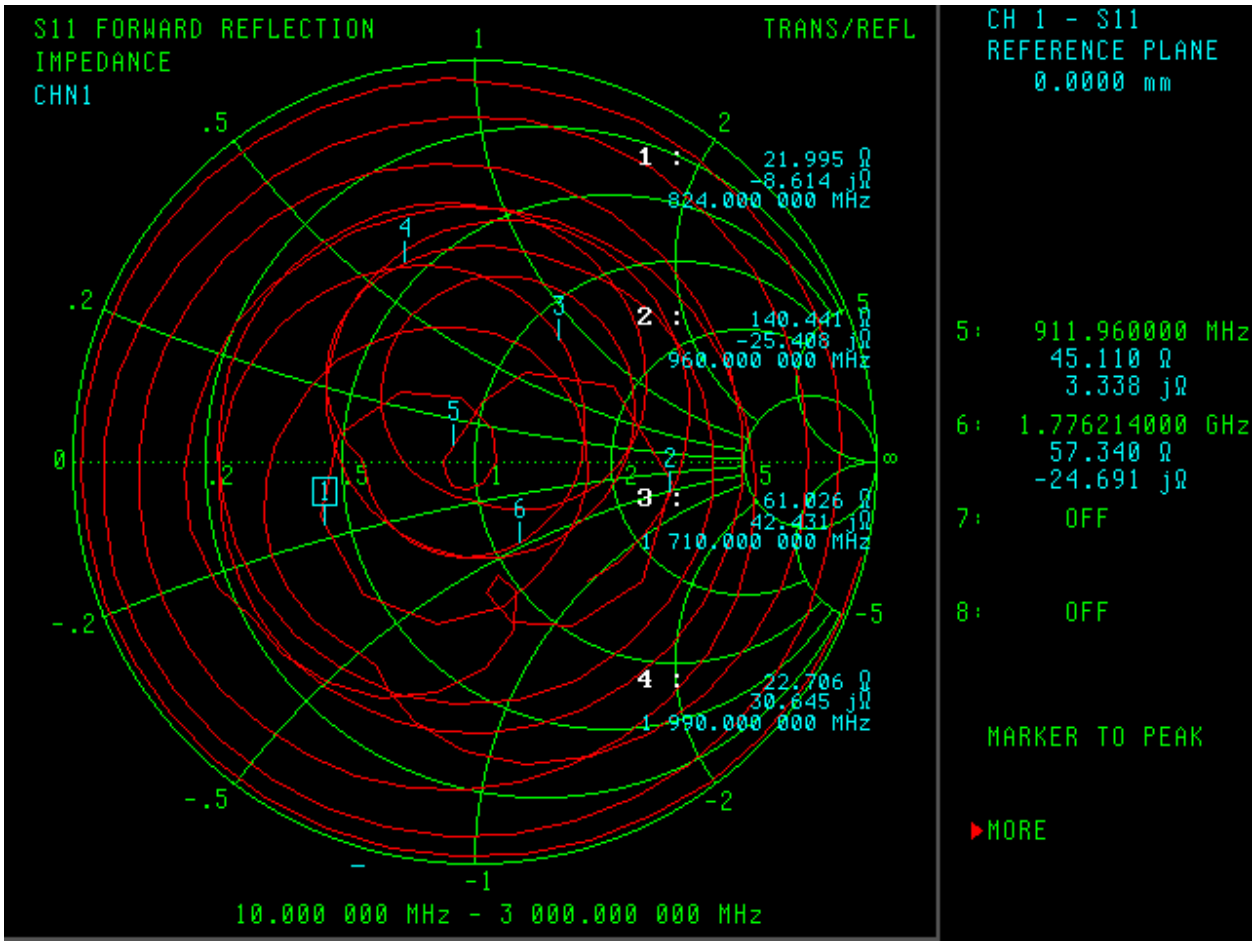
NO.	NAME	FINISH	Q, TY
01	Body	Nickel plating	01
02	Core tube	Black	01
03	Screw set		01
04	RG-58/U Cable	Black	01
05	TNC 180°(Female)	Nickel plating	01
06	Top cap	Black	01
07	Heat-shrink tube	Black	01
08	Clip wire	White	02

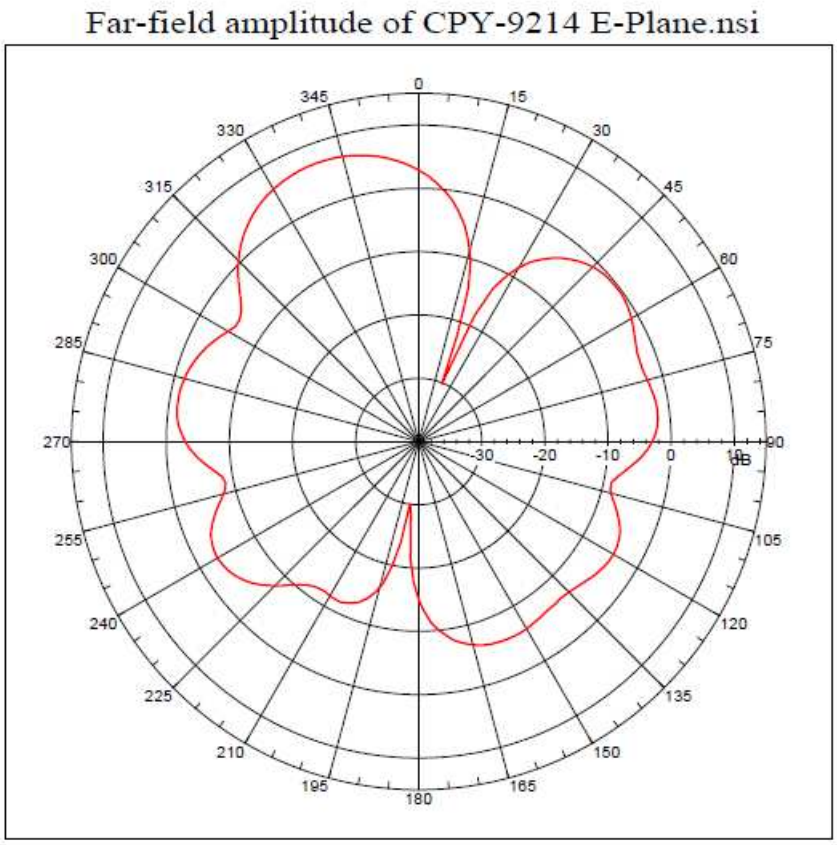
Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				800/900/1800/1900MHz	M/M		20081215	1
PROFESSOR 普傑國際股份有限公司	TOLERANCE	X.XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	S	APPEARANCE	CPY9214				

2. FREQUENCY:


S11 FORWARD REFLECTION
TRANSMISSION/REFLECTION
CHN1
LOG MAGNITUDE
REF=0.000 dB
10.000 dB/DIV
1 : -7.824 dB
824.000 000 MHz
2 : -6.023 dB
960.000 000 MHz
3 : -8.600 dB
1 710.000 000 MHz
4 : -5.676 dB
1 990.000 000 MHz
10.000 000 MHz
3 000.000 000 MHz
CH 1 - S11
REFERENCE PLANE
0.0000 mm
5: 911.960000 MHz
-23.944 dB
6: 1.776214000 GHz
-12.562 dB
7: OFF
8: OFF
MARKER TO PEAK
MORE


S11 FORWARD REFLECTION
TRANSMISSION/REFLECTION
CHN1
SWR
REF=0.000 pU
10.000 U/DIV
1 : 2.370 U
824.000 000 MHz
2 : 2.999 U
960.000 000 MHz
3 : 2.185 U
1 710.000 000 MHz
4 : 3.169 U
1 990.000 000 MHz
10.000 000 MHz
3 000.000 000 MHz
CH 1 - S11
REFERENCE PLANE
0.0000 mm
5: 911.960000 MHz
1.136 U
6: 1.776214000 GHz
1.616 U
7: OFF
8: OFF
MARKER TO PEAK
MORE


S11 FORWARD REFLECTION
IMPEDANCE
CHN1
TRANS/REFL
1 : 21.995 Ω -8.614 jΩ 824.000 000 MHz
2 : 140.441 Ω -25.408 jΩ 960.000 000 MHz
3 : 61.026 Ω 42.431 jΩ 1 710.000 000 MHz
4 : 22.706 Ω 30.645 jΩ 1 990.000 000 MHz
10.000 000 MHz - 3 000.000 000 MHz
CH 1 - S11
REFERENCE PLANE
0.0000 mm
5: 911.960000 MHz
45.110 Ω
3.338 jΩ
6: 1.776214000 GHz
57.340 Ω
-24.691 jΩ
7: OFF
8: OFF
MARKER TO PEAK
MORE



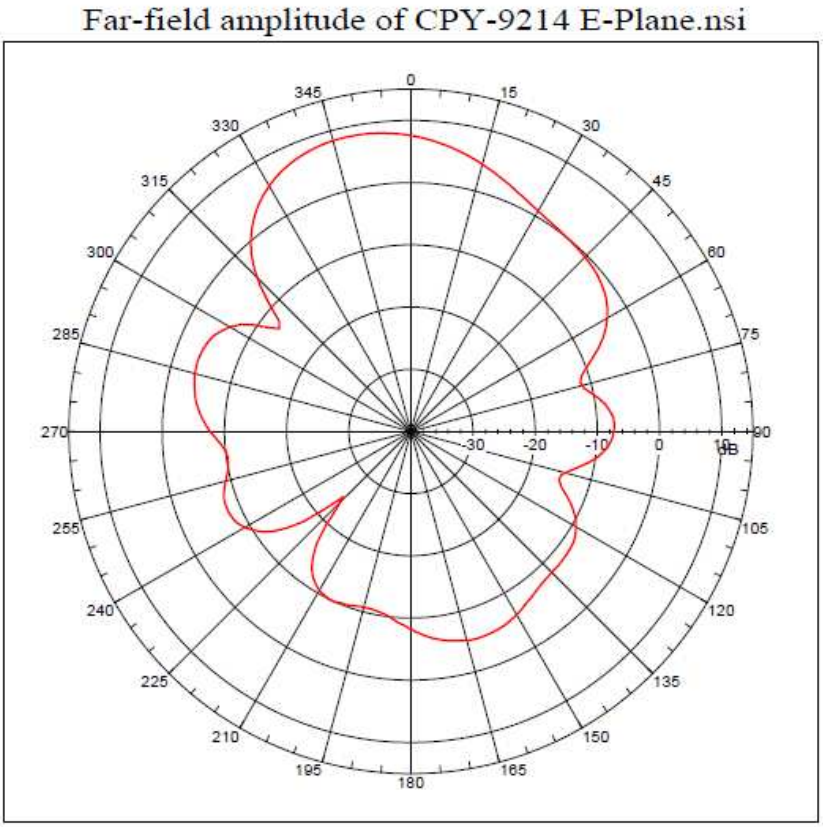
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 6.84191 dBi
Max far-field (global) = -26.15743 dB, Max far-field (plot) = -26.15744 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -20.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

CPY-9214 E-Plane

NSI2000 V4.0.124, Filename:C:\nsi2000\Midy\CPY-9214\CPY-9214 E-Plane.nsi
Measurement date/time: 1/9/2009 1:31:04 PM, Filetype: NSI-97
Far-field Cut Analysis:
  Avg value: -2.970 dB
  -3. dB beam width: 35.42 deg
  -6. dB beam width: 48.56 deg
  -10. dB beam width: 60.55 deg
  Left Sidelobe: -8.17 dB at -79.441 deg
  Right Sidelobe: -7.17 dB at 53.296 deg
Far-field display setup
  Azimuth (deg)
    Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
    Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
  Elevation (deg)
    Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 6

Beam	Frequency	Azimuth	Elevation	Pol
1	0.824 GHz	Azimuth	Elevation	Single-pol

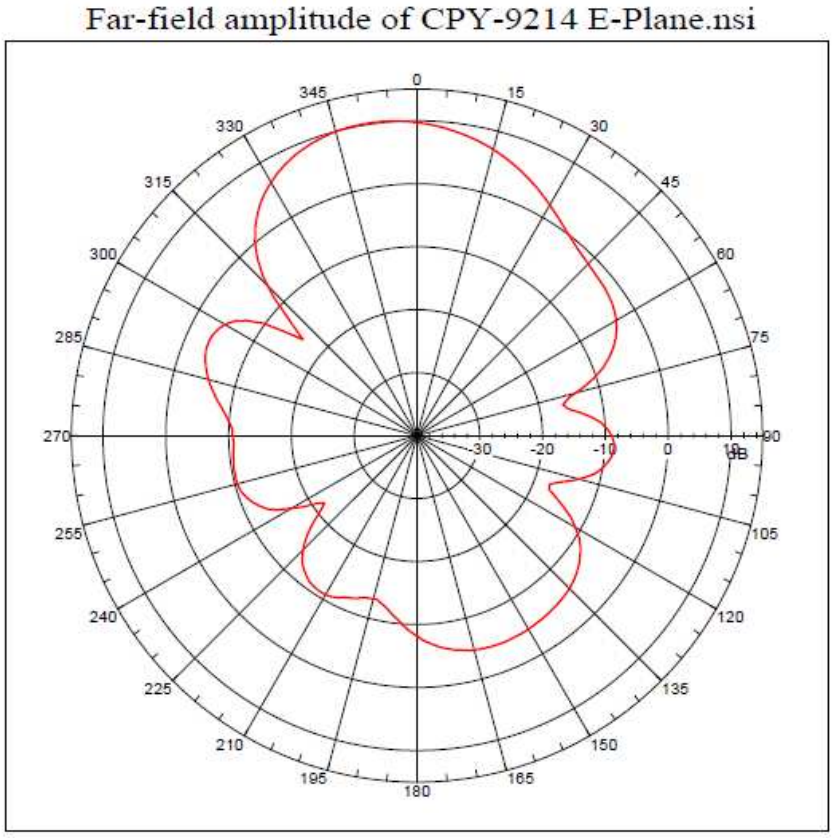



```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 8.42423  dBi
Max far-field (global) = -32.3436  dB, Max far-field (plot) =
-32.3436  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -12.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

CPY-9214 E-Plane

NSI2000 V4.0.124, Filename:C:\nsi2000\Midy\CPY-9214\CPY-9214
E-Plane.nsi
Measurement date/time: 1/9/2009 1:31:04 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -2.603 dB
   -3. dB beam width: 41.49 deg
   -6. dB beam width: 59.70 deg
   -10. dB beam width: 96.22 deg
   Left Sidelobe: -12.34 dB at -71.397  deg
   Right Sidelobe: -15.68 dB at 89.497  deg
Far-field display setup
   Azimuth (deg)
     Span = 360.00001  deg, Center = 0.000  deg, #pts = 181
     Start= -180.00001  deg, Stop = 180.00001  deg, Delta = 2.000
deg
   Elevation (deg)
     Center = 0.000  deg, #pts = 1

Selected beam(s) 1 of 6
Beam     Frequency   Azimuth  Elevation  Pol
----     ---------   -------  ---------  ---
2        0.860  GHz  Azimuth  Elevation  Single-pol
```



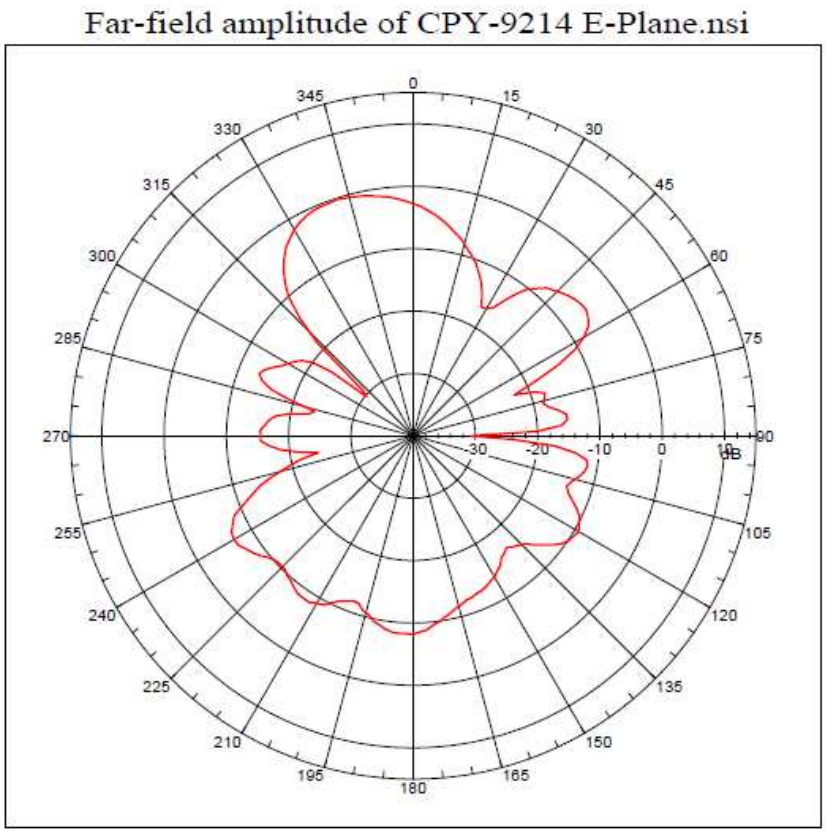
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 10.17172 dBi
Max far-field (global) = -31.32368 dB, Max far-field (plot) = -31.32368 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -8.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

CPY-9214 E-Plane

NSI2000 V4.0.124, Filename:C:\nsi2000\Midy\CPY-9214\CPY-9214 E-Plane.nsi
Measurement date/time: 1/9/2009 1:31:04 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -1.619 dB
-3. dB beam width: 42.62 deg
-6. dB beam width: 59.36 deg
-10. dB beam width: 76.83 deg
Left Sidelobe: -13.85 dB at -65.263 deg
Right Sidelobe: -10.78 dB at 95.531 deg
Far-field display setup
Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg)
Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 6

Beam	Frequency	Azimuth	Elevation	Pol
1	0.896 GHz	Azimuth	Elevation	Single-pol

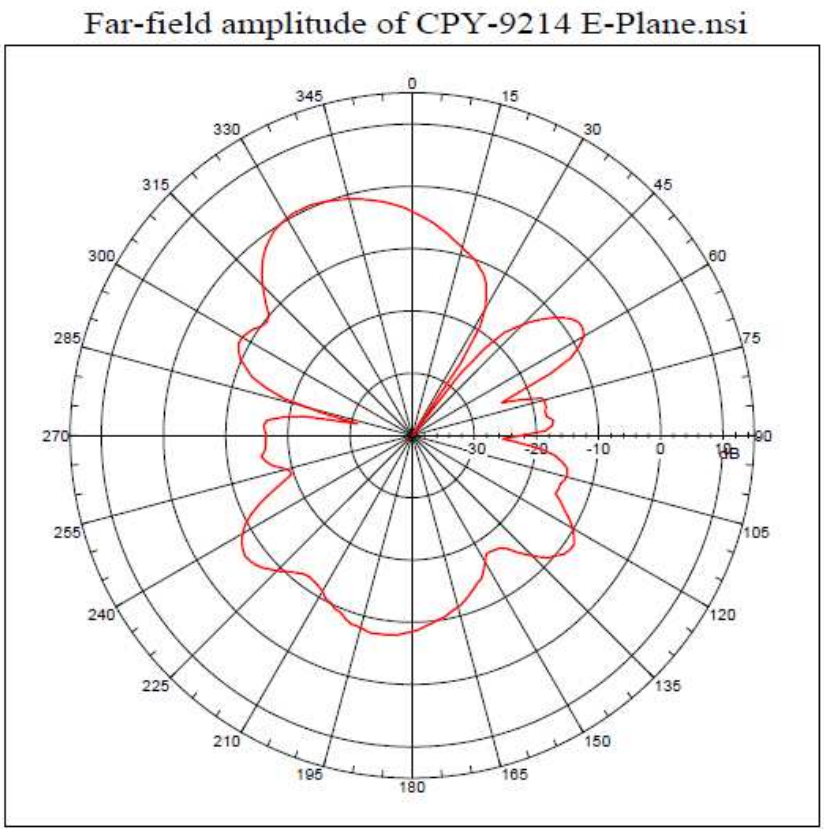



```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -0.23736  dBi
Max far-field (global) = -48.04346  dB, Max far-field (plot) =
-48.04347  dB
Normalization: Reference, Network offset = 0.000  dB
Upeak at: -18.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

CPY-9214 E-Plane

NSI2000 V4.0.124, Filename:C:\nsi2000\Mindy\CPY-9214\CPY-9214
E-Plane.nsi
Measurement date/time: 1/9/2009 1:31:04 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.795 dB
   -3. dB beam width: 35.27 deg
   -6. dB beam width: 48.74 deg
   -10. dB beam width: 61.73 deg
   Left Sidelobe: -13.13 dB at -67.374  deg
   Right Sidelobe: -5.43 dB at 55.307  deg
Far-field display setup
   Azimuth (deg)
      Span = 360.00001  deg, Center = 0.000  deg, #pts = 181
      Start= -180.00001  deg, Stop = 180.00001  deg, Delta = 2.000
deg
   Elevation (deg)
      Center = 0.000  deg, #pts = 1

Selected beam(s) 1 of 6
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
6       1.990  GHz  Azimuth  Elevation  Single-pol
```



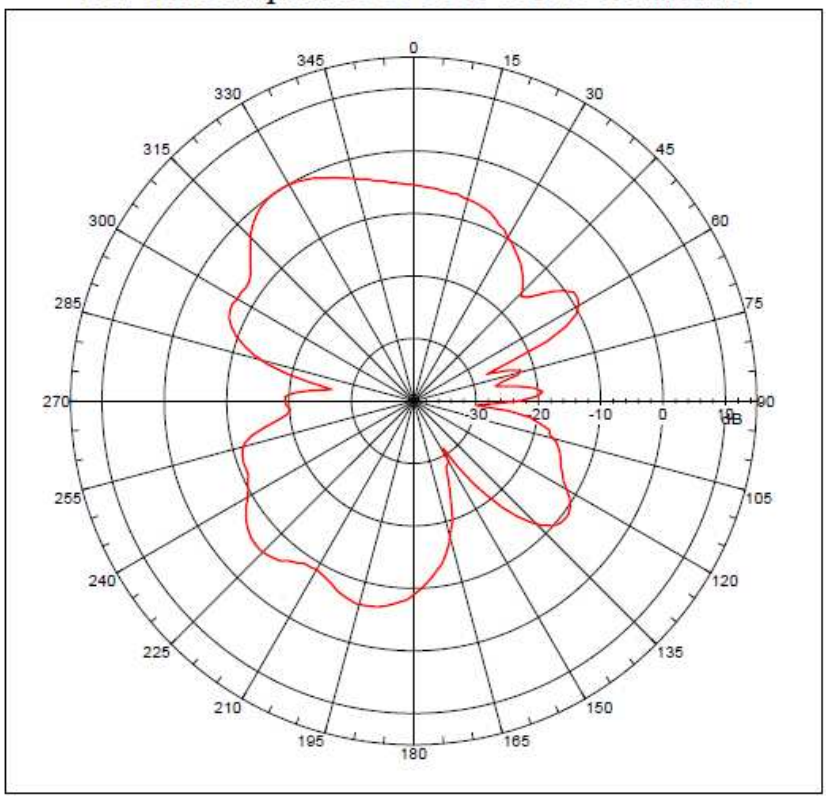

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.46428  dBi
Max far-field (global) = -46.98746  dB, Max far-field (plot) =
-46.98748  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -28.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

CPY-9214 E-Plane

NSI2000 V4.0.124, Filename:C:\nsi2000\Midy\CPY-9214\CPY-9214
E-Plane.nsi
Measurement date/time: 1/9/2009 1:31:04 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.598 dB
   -3. dB beam width: 34.11 deg
   -6. dB beam width: 49.72 deg
   -10. dB beam width: 67.45 deg
   Left Sidelobe: -8.90 dB at -61.341  deg
   Right Sidelobe: -8.09 dB at 57.318  deg
Far-field display setup
   Azimuth [deg]
     Span = 360.00001  deg, Center = 0.000  deg, #pts = 181
     Start= -180.00001  deg, Stop = 180.00001  deg, Delta = 2.000
deg
   Elevation [deg]
     Center = 0.000  deg, #pts = 1

Selected beam(s) 1 of 6
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
5       1.920  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of CPY-9214 E-Plane.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.03864  dBi
Max far-field (global) = -46.3884  dB, Max far-field (plot) =
-46.38842  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -32.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

CPY-9214 E-Plane

NSI2000 V4.0.124, Filename:C:\nsi2000\Mindy\CPY-9214\CPY-9214
E-Plane.nsi
Measurement date/time: 1/9/2009 1:31:04 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.377 dB
   -3. dB beam width: 29.12 deg
   -6. dB beam width: 57.47 deg
   -10. dB beam width: 101.34 deg
   Left Sidelobe: -19.42 dB at -67.486  deg
   Right Sidelobe: -9.03 dB at 59.330  deg
Far-field display setup
   Azimuth (deg)
      Span = 360.00001  deg, Center = 0.000  deg, #pts = 181
      Start= -180.00001  deg, Stop = 180.00001  deg, Delta = 2.000
deg
   Elevation (deg)
      Center = 0.000  deg, #pts = 1

Selected beam(s) 1 of 6
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
4       1.850  GHz  Azimuth  Elevation  Single-pol
```