

RFID Omni Directional Antenna

MODEL: TP-915A



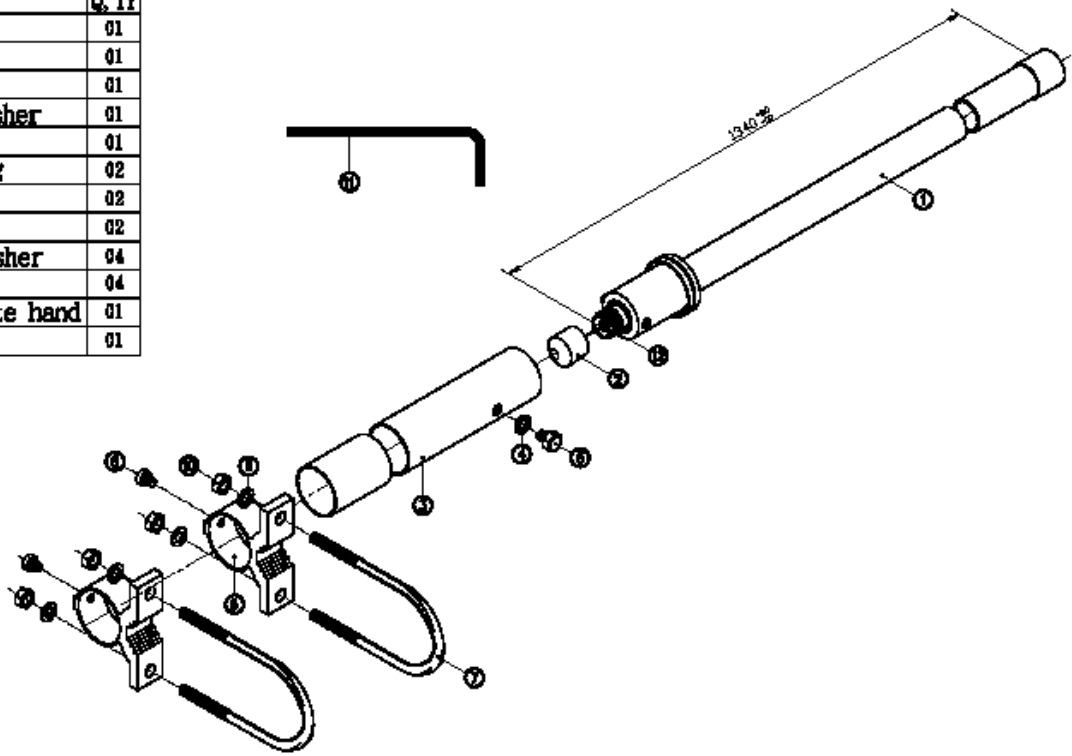
Electrical Specification:

Frequency	902~928MHz
Part Number	TP-915A
Polarization	Linear
V.S.W.R.	2.5:1
Impedance	50 OHMS $\pm 5\Omega$
Gain	8~9 dBi
Power handling	15W Max
Front to back ratio	N/A
HPBW / horizontal	360°
HPBW / vertical	10°
Rated Wind	3.0 lbs. (1.4 kg)
Operating Temperature	-20°C~60°C

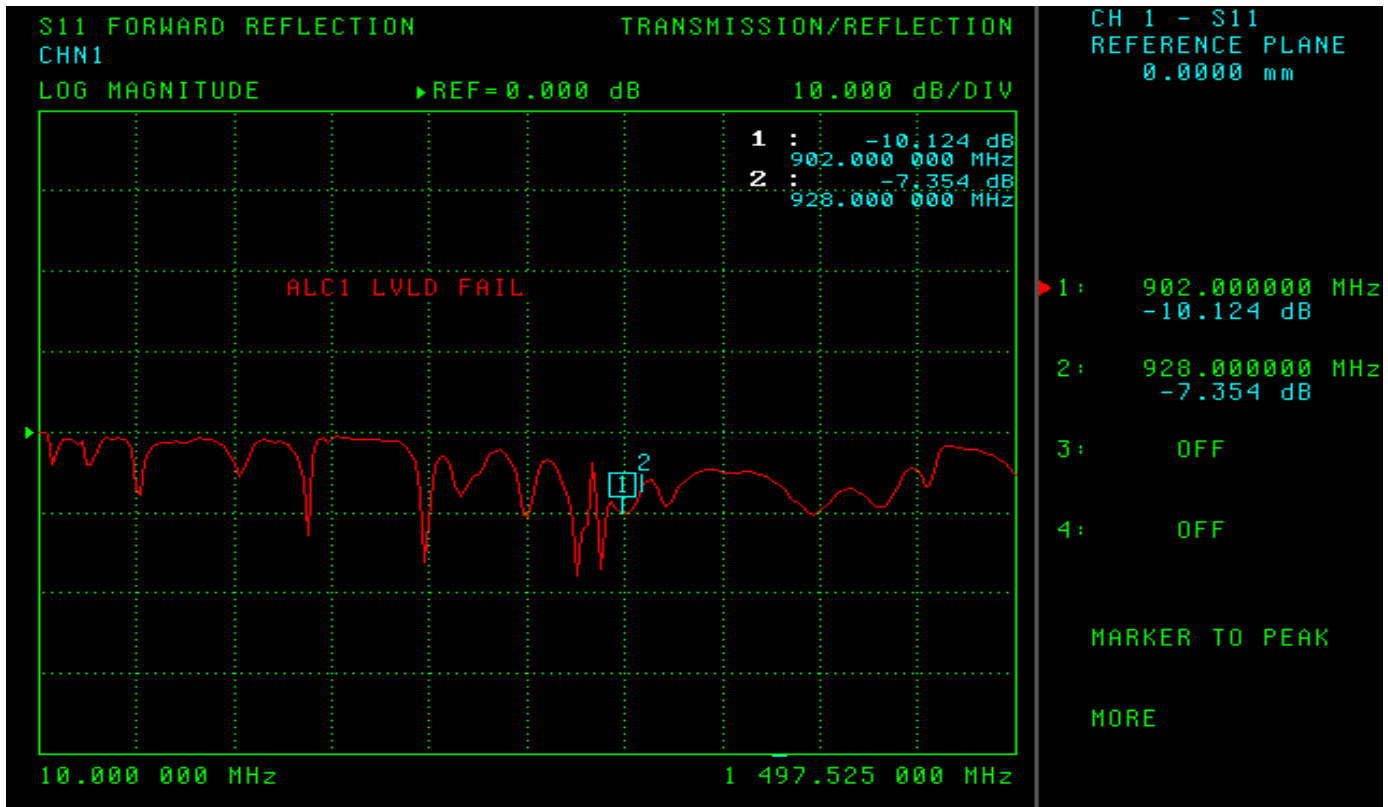
MECHANICAL SPECIFICATION

Connector Type	N Type Male
Length	$\Phi 20 \times 1340\text{mm}$
Weight	250g
Radome color	white
Radome material	Polyvinyl chloride

NO.	NAME	Q. TY
01	Body	01
02	Cap	01
03	Tube aluminium	01
04	Round iron washer	01
05	Hexagonal nut	01
06	Clip retaining	02
07	U-Circlip	02
08	Hexagonal nut	02
09	Round iron washer	04
10	Hexagonal nut	04
11	Hexagonal plate hand	01
12	N (Female)	01



CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
			902~928MHz	M/M		20090918	1
TOLERANCE	X. XX+0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
SURFACE ROUGHNESS	$\sqrt{\sqrt{\quad}}$	APPEARANCE					



S11 FORWARD REFLECTION
CHN1

TRANSMISSION/REFLECTION

CH 1 - S11
REFERENCE PLANE
0.0000 mm

SWR

REF=0.000 pU

10.000 U/DIV

1 : 1.906 U
902.000 000 MHz
2 : 2.511 U
928.000 000 MHz

ALC1 LVLD FAIL

1 2

1: 902.000000 MHz
1.906 U
2: 928.000000 MHz
2.511 U

3: OFF

4: OFF

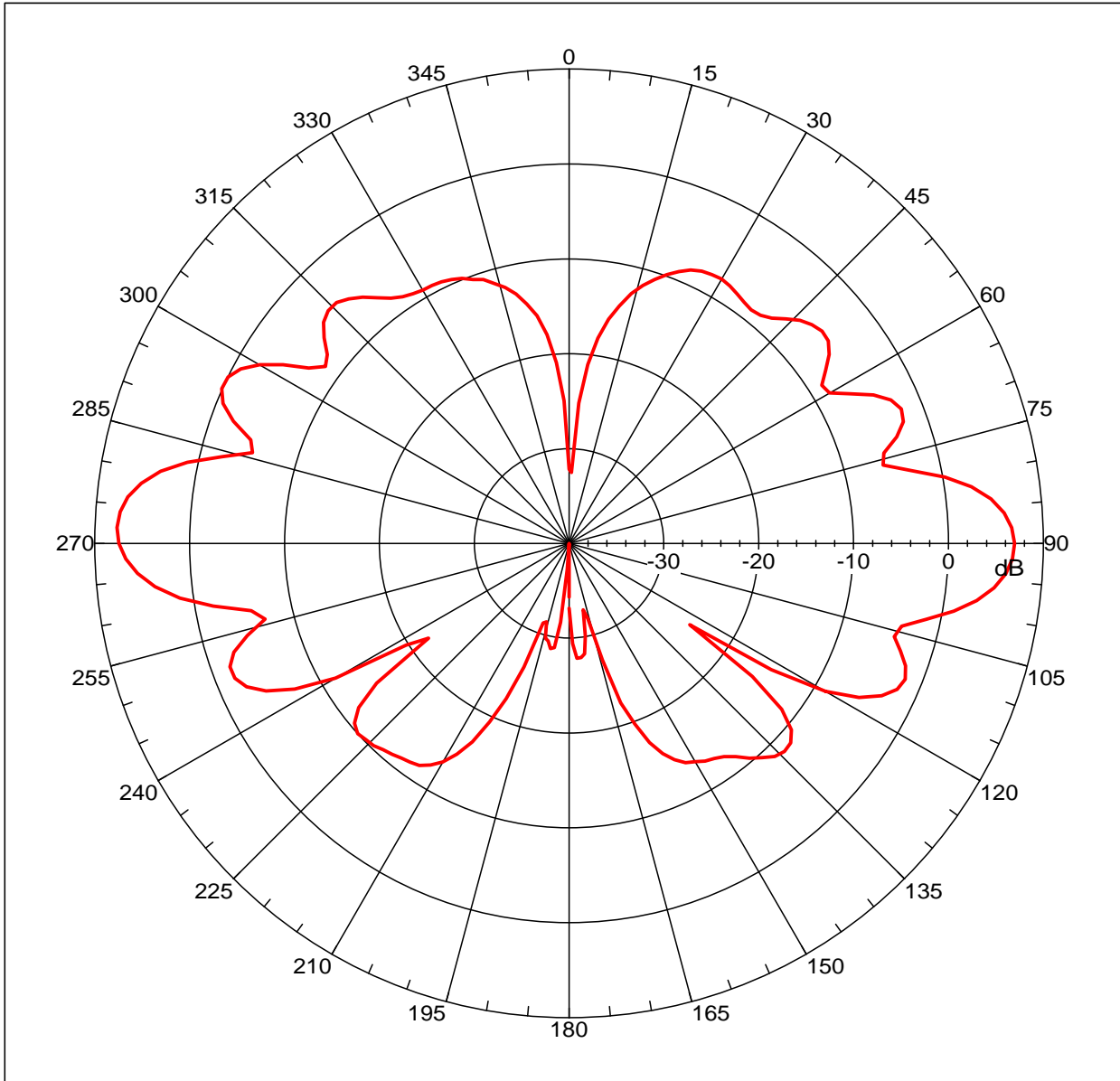
MARKER TO PEAK

MORE

10.000 000 MHz

1 497.525 000 MHz

Far-field amplitude of 20090923 TP-915A 902-928mhz E-Plane.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 7.6534 dBi
 Max far-field (global) = -33.93343 dB, Max far-field (plot) =
 -33.93357 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -88.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

20090923 TP915A 902-928mhz E-Plane

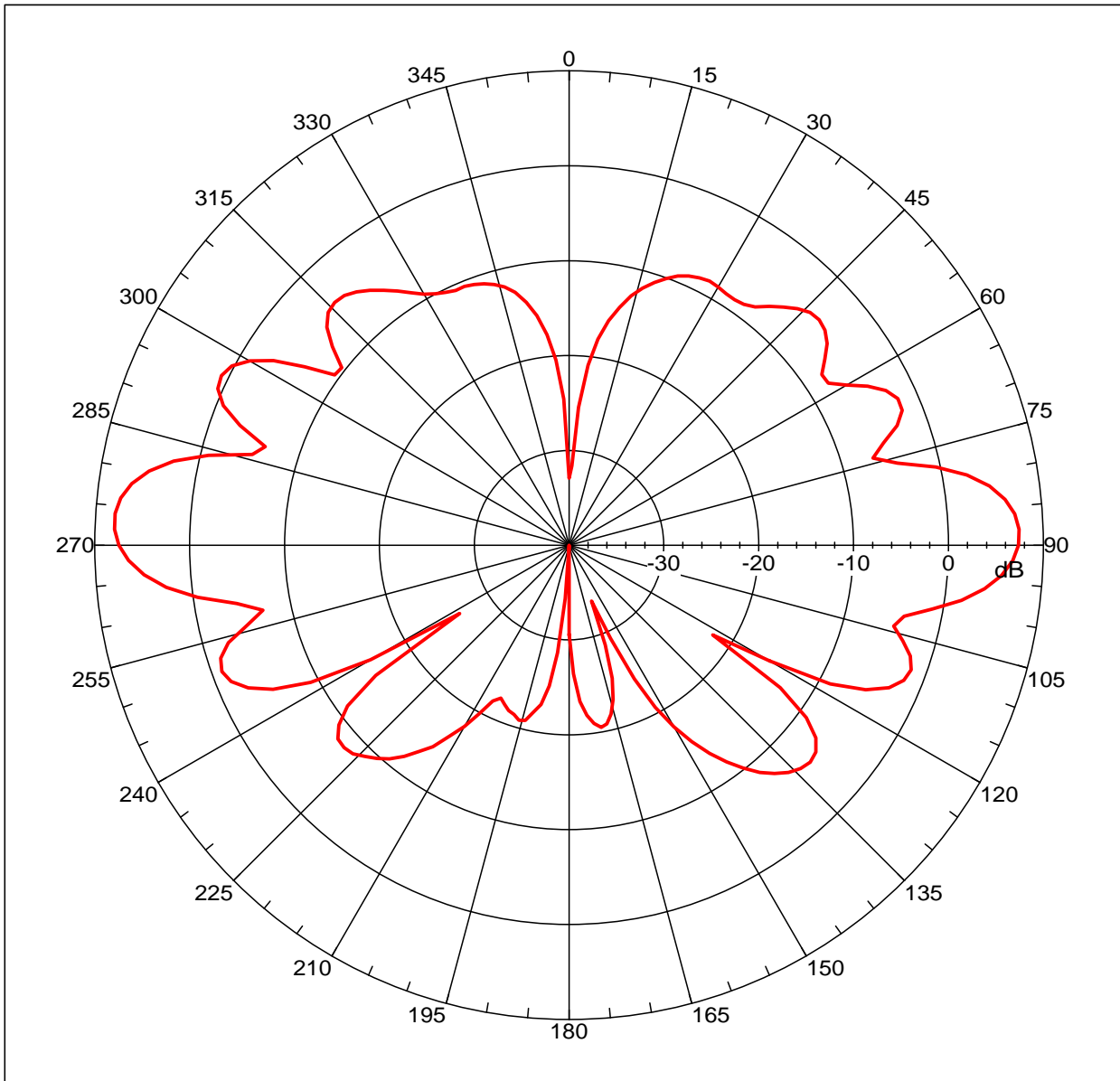
NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20090923 TP-915A
 902-928mhz E-Plane.nsi
 Measurement date/time: 9/23/2009 10:08:45 AM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -5.446 dB
 -3. dB beam width: 14.10 deg
 -6. dB beam width: 19.48 deg
 -10. dB beam width: 24.37 deg
 Left Sidelobe: -9.65 dB at -109.609 deg
 Right Sidelobe: -7.59 dB at -65.363 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 3

Beam	Frequency	Azimuth	Elevation	Pol
1	0.902 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20090923 TP-915A 902-928mhz E-Plane.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 7.94777 dBi
 Max far-field (global) = -33.6555 dB, Max far-field (plot) = -33.65573 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -86.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20090923 TP915A 902-928mhz E-Plane

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20090923 TP-915A 902-928mhz E-Plane.nsi
 Measurement date/time: 9/23/2009 10:08:45 AM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -5.176 dB
 -3. dB beam width: 14.01 deg
 -6. dB beam width: 18.93 deg
 -10. dB beam width: 23.46 deg
 Left Sidelobe: -9.02 dB at -109.609 deg
 Right Sidelobe: -7.19 dB at -63.352 deg

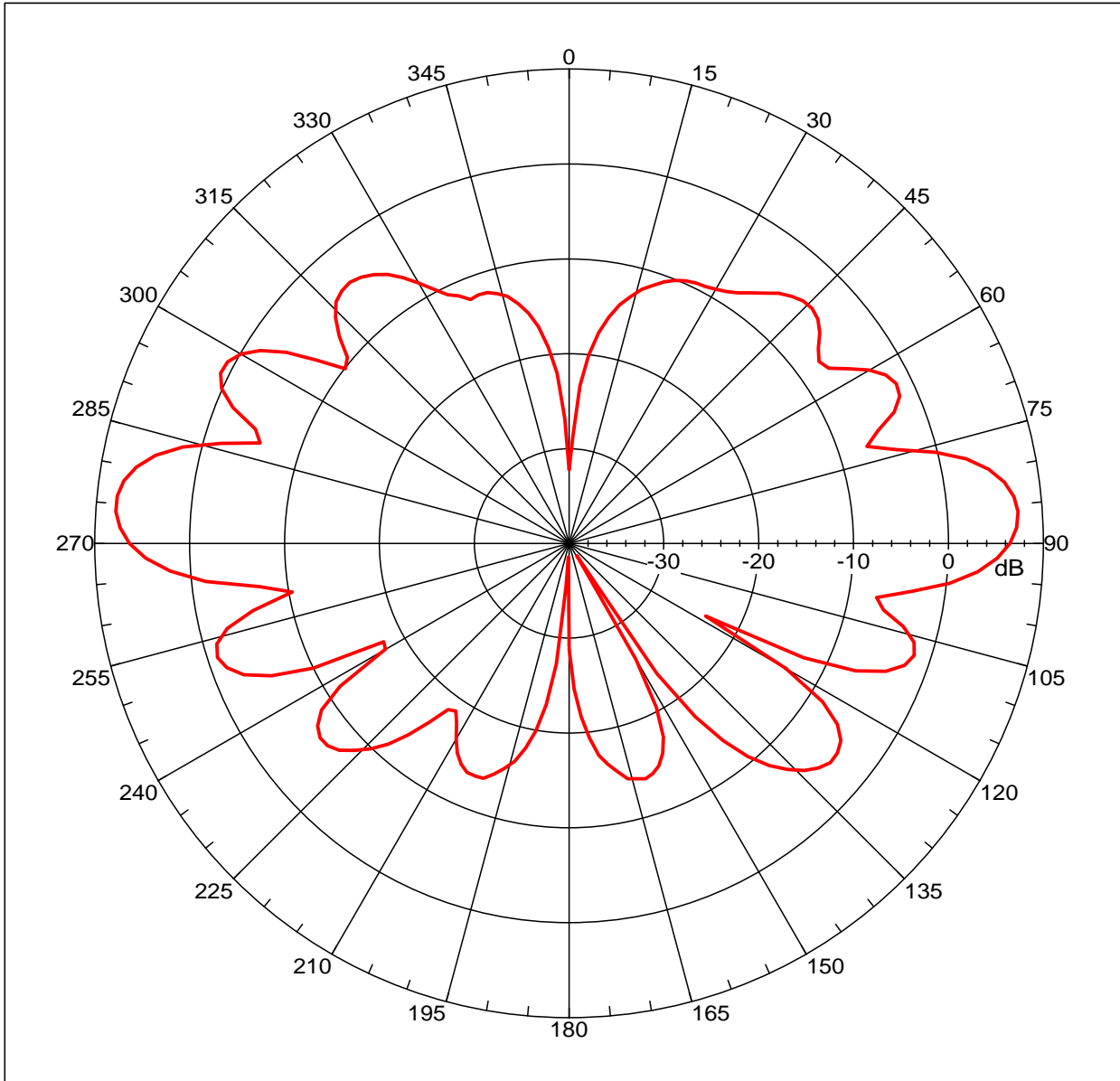
Far-field display setup

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 3

Beam	Frequency	Azimuth	Elevation	Pol
2	0.915 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20090923 TP-915A 902-928mhz E-Plane.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 7.87267 dBi
 Max far-field (global) = -33.87017 dB, Max far-field (plot) = -33.87042 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -84.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20090923 TP-915A 902-928mhz E-Plane

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20090923 TP-915A 902-928mhz E-Plane.nsi
 Measurement date/time: 9/23/2009 10:08:45 AM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -5.149 dB
 -3. dB beam width: 13.43 deg
 -6. dB beam width: 18.26 deg
 -10. dB beam width: 22.50 deg
 Left Sidelobe: -8.93 dB at -107.598 deg
 Right Sidelobe: -7.02 dB at -63.352 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 3

Beam	Frequency	Azimuth	Elevation	Pol
3	0.928 GHz	Azimuth	Elevation	Single-pol