

SPECIFICATION FOR APPROVAL

CUSTOMER

DESCRIPTION

MINI MAGNETIC GSM ANTENNAS 824~960/1710-2170/2600MHz

PART NO.

MB-07F

DATE

DESIGNER		DIRECTOR	
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Approved by Customer/date:



Tekfun Co., Ltd.

ANTENNA SPECIFICATIONS FOR APPROVAL

1 GENERAL DESCRIPTION

- 1.1 Type No. : MB-07F
1.2 Customer P/N :

2 DESCRIPTION & APPLICATION

This antenna assembly is designed for use in 824~960/1710-2170/2600MHz
Product is with RoHS Compliant

3 ELECTRICAL CHARACTERISTICS

- 3.1 Frequency Range : 824~960/1710-2170/2600MHz
3.2 V.S.W.R : ≤ 2
3.3 Connector : SMA Male, FME Female, TS9, CRC9...etc
3.4 Impedance : 50 Ω
3.5 Gain : 3dBi
3.6 Cable : RG174 3meter, 2meter (OEM length welcome)

4 ENVIRONMENTAL CHARACTERISTICS

- 4.1 Operating temperature range -25°C to + 70°C

5 QUALIFICATION TESTING

- 5.1 All products shall be able to withstand the following testing.
5.2 Physical dimensions identified within this specification.

6 PACKAGE

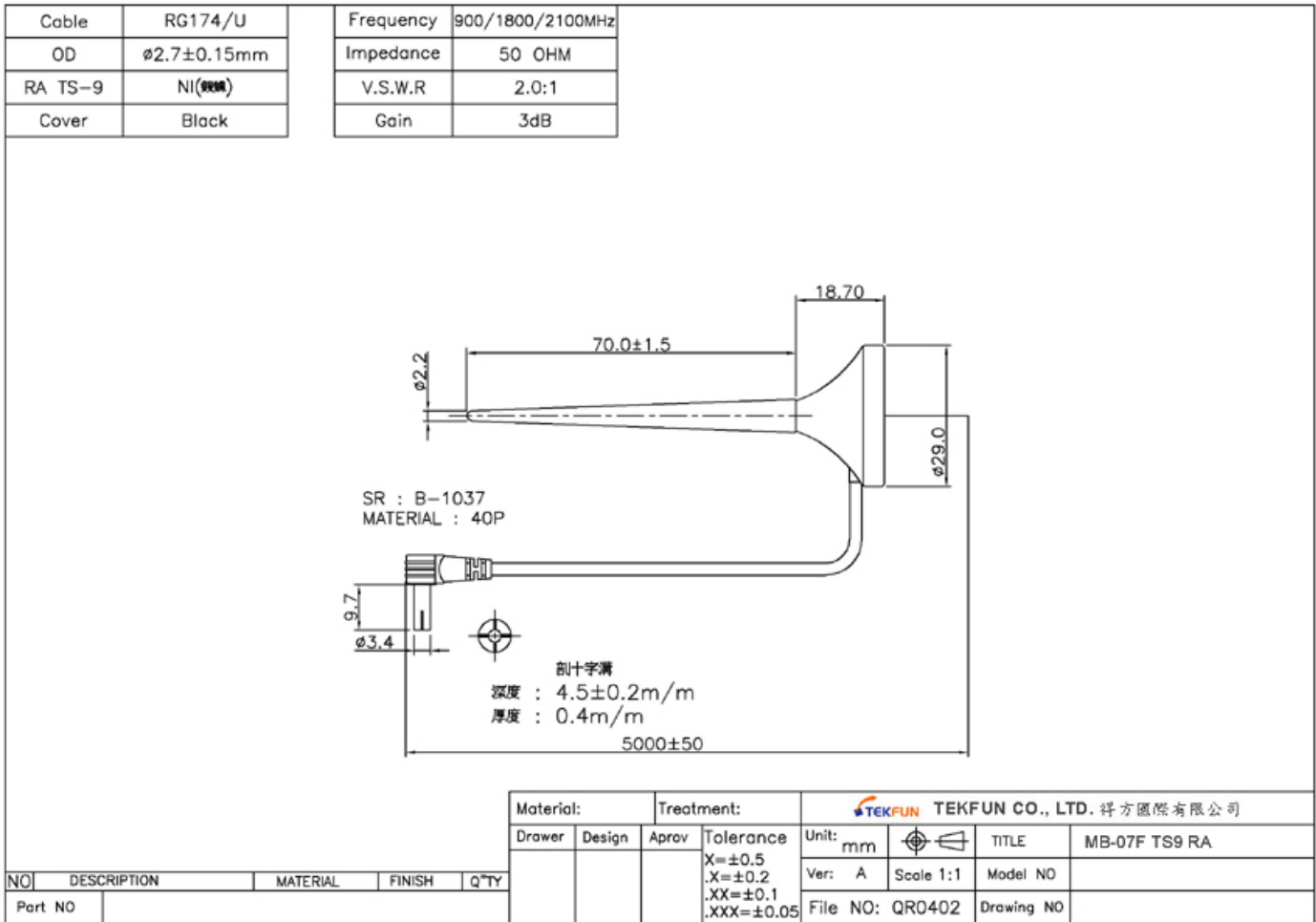
- 6.1 Packing: Poly Bag.





ANTENNA SPECIFICATIONS FOR APPROVAL

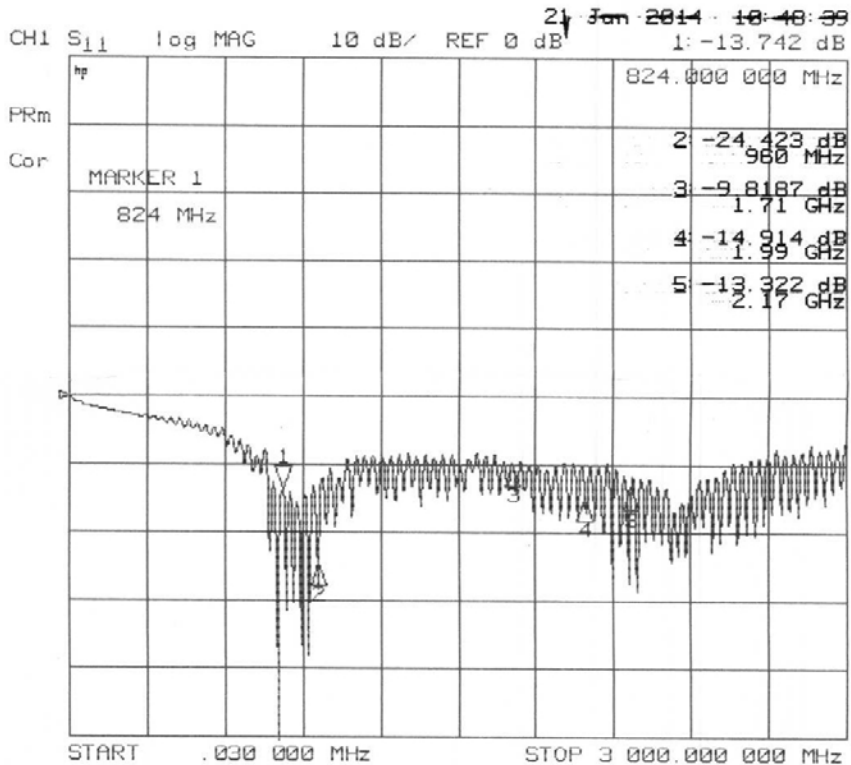
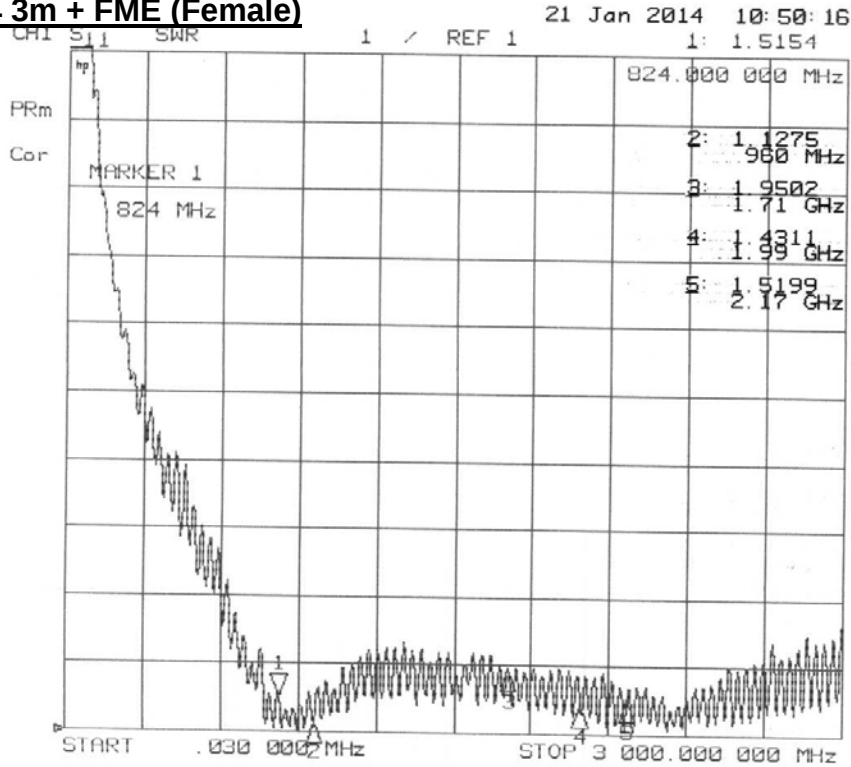
7 DRAWING



**TEKFUN****Tekfun Co., Ltd.**

ANTENNA SPECIFICATIONS FOR APPROVAL

8 VSWR (1) RG174 3m + FME (Female)



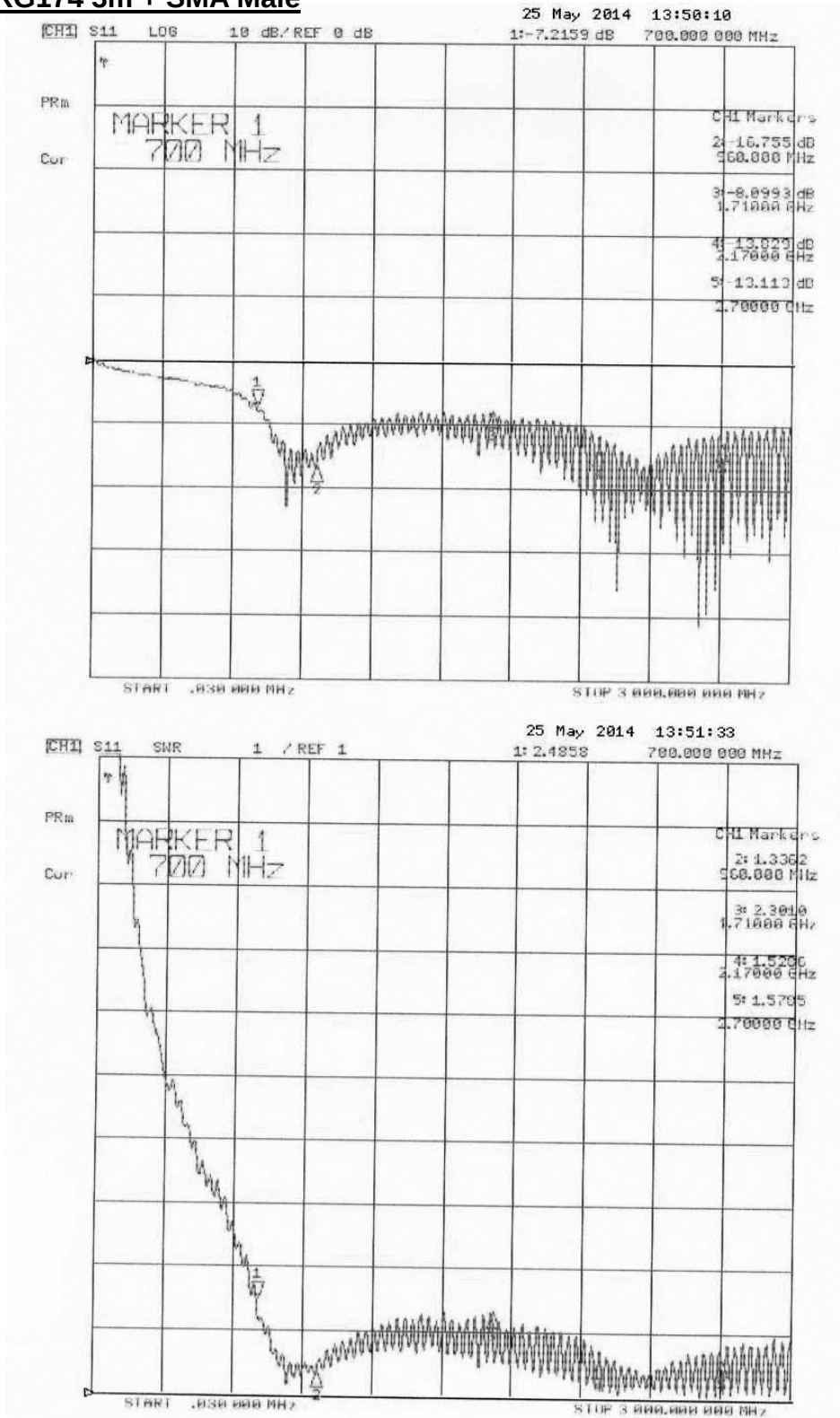


TEKFUN

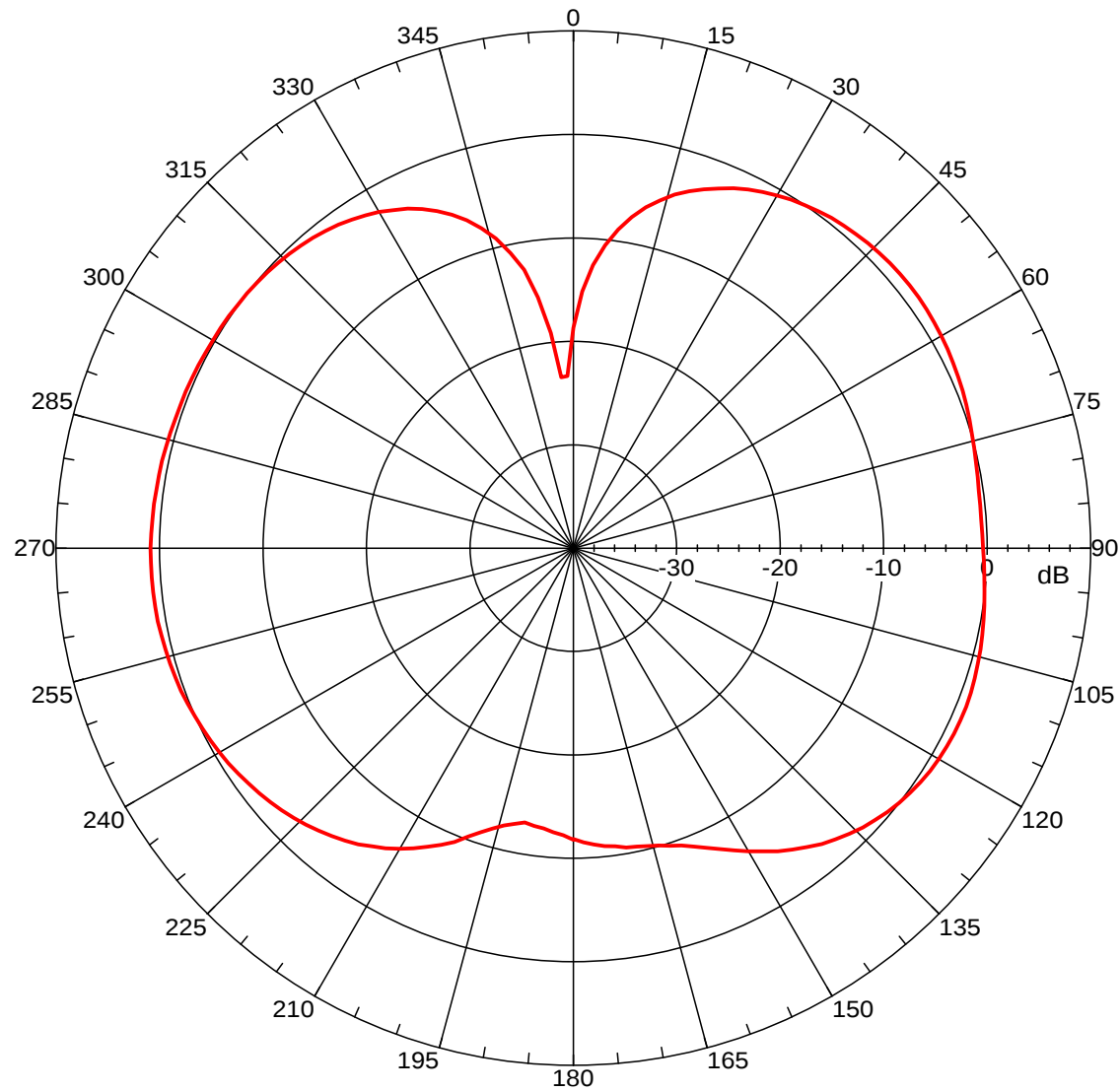
Tekfun Co., Ltd.

ANTENNA SPECIFICATIONS FOR APPROVAL

9 VSWR (2) RG174 3m + SMA Male



Far-field amplitude of MB-07F -E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 1.24174 dBi
Max far-field (global) = -41.50653 dB, Max far-field (plot) = -41.50654 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 51.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97

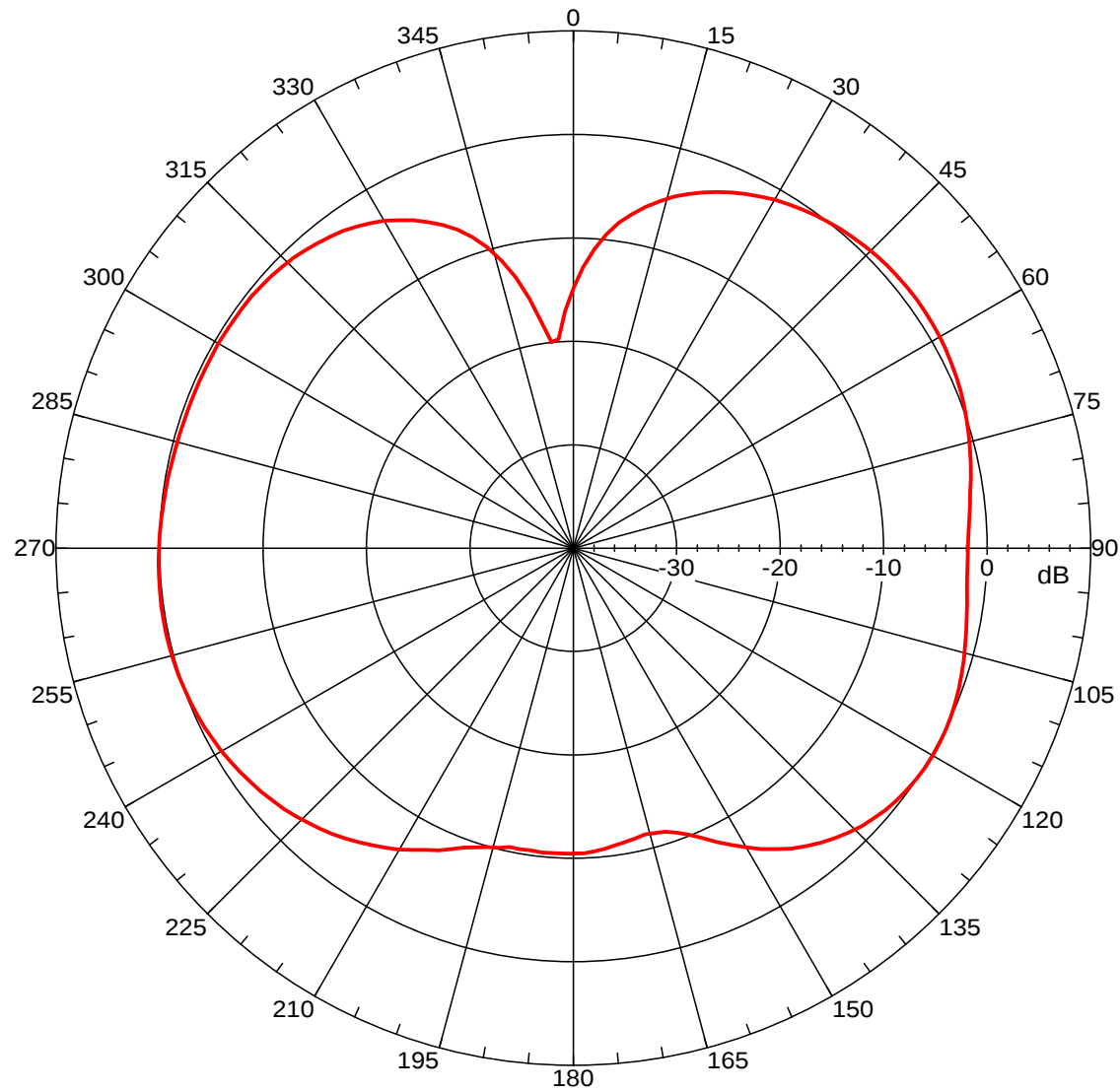
Far-field Cut Analysis:
Avg value: -2.190 dB
-3. dB beam width: 112.46 deg
-6. dB beam width: 131.66 deg
-10. dB beam width: 150.17 deg
Left Sidelobe: -0.39 dB at -89.497 deg
Right Sidelobe: -0.31 dB at 113.631 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
1	0.806 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



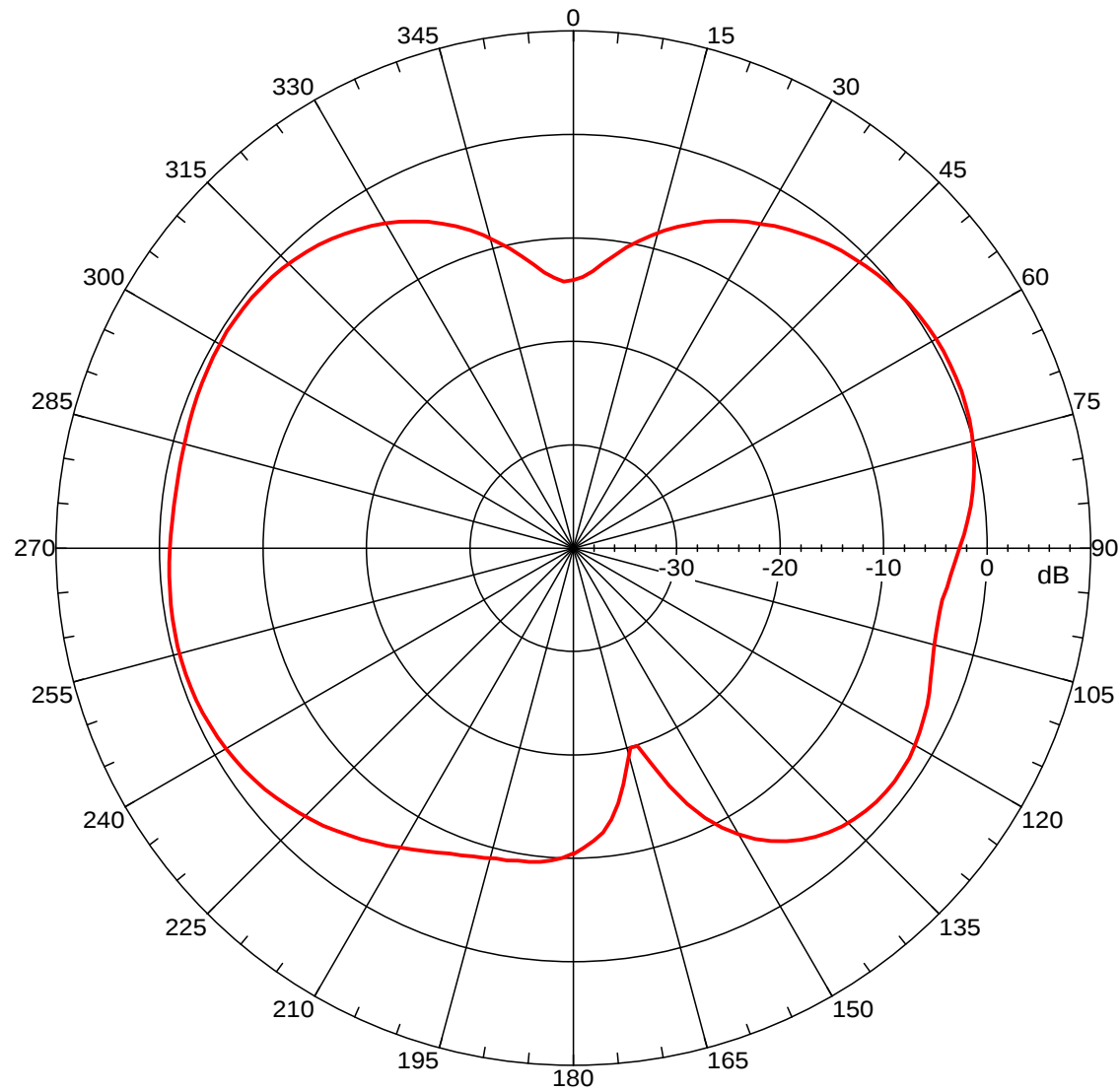
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 0.97802 dBi
Max far-field (global) = -40.55505 dB, Max far-field (plot) = -40.55506 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 53.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -2.713 dB
-3. dB beam width: 112.12 deg
-6. dB beam width: 131.94 deg
-10. dB beam width: 149.41 deg
Left Sidelobe: -1.39 dB at -59.330 deg
Right Sidelobe: -0.88 dB at 121.676 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 10

Beam	Frequency	Azimuth	Elevation	Pol
2	0.850 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



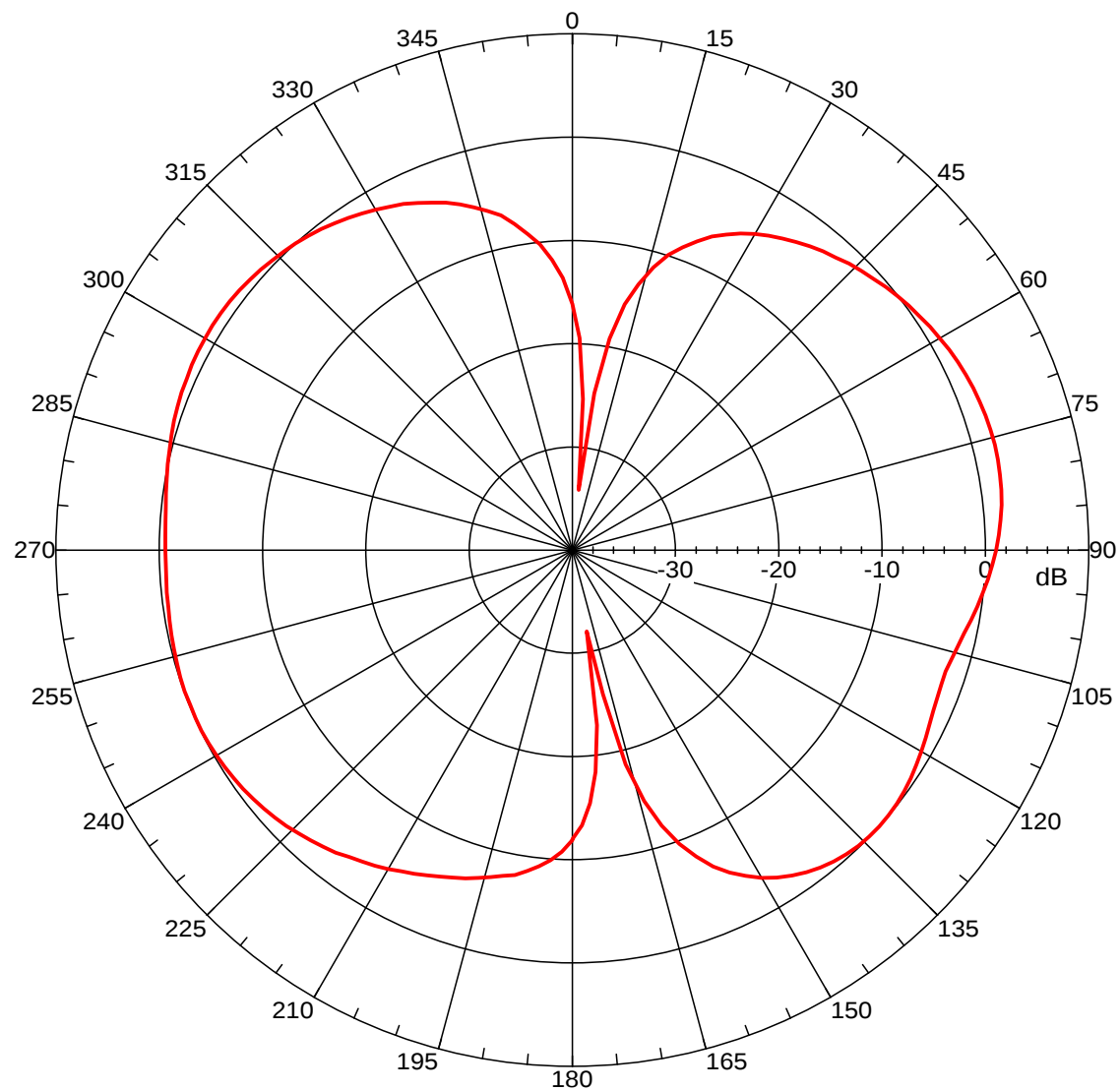
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 0.52857 dBi
Max far-field (global) = -41.03111 dB, Max far-field (plot) = -41.03113 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 61.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -3.618 dB
-3. dB beam width: 53.52 deg
-6. dB beam width: 122.07 deg
-10. dB beam width: 140.38 deg
Left Sidelobe: -1.05 dB at -57.318 deg
Right Sidelobe: -2.17 dB at 127.710 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 10

Beam	Frequency	Azimuth	Elevation	Pol
3	0.900 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



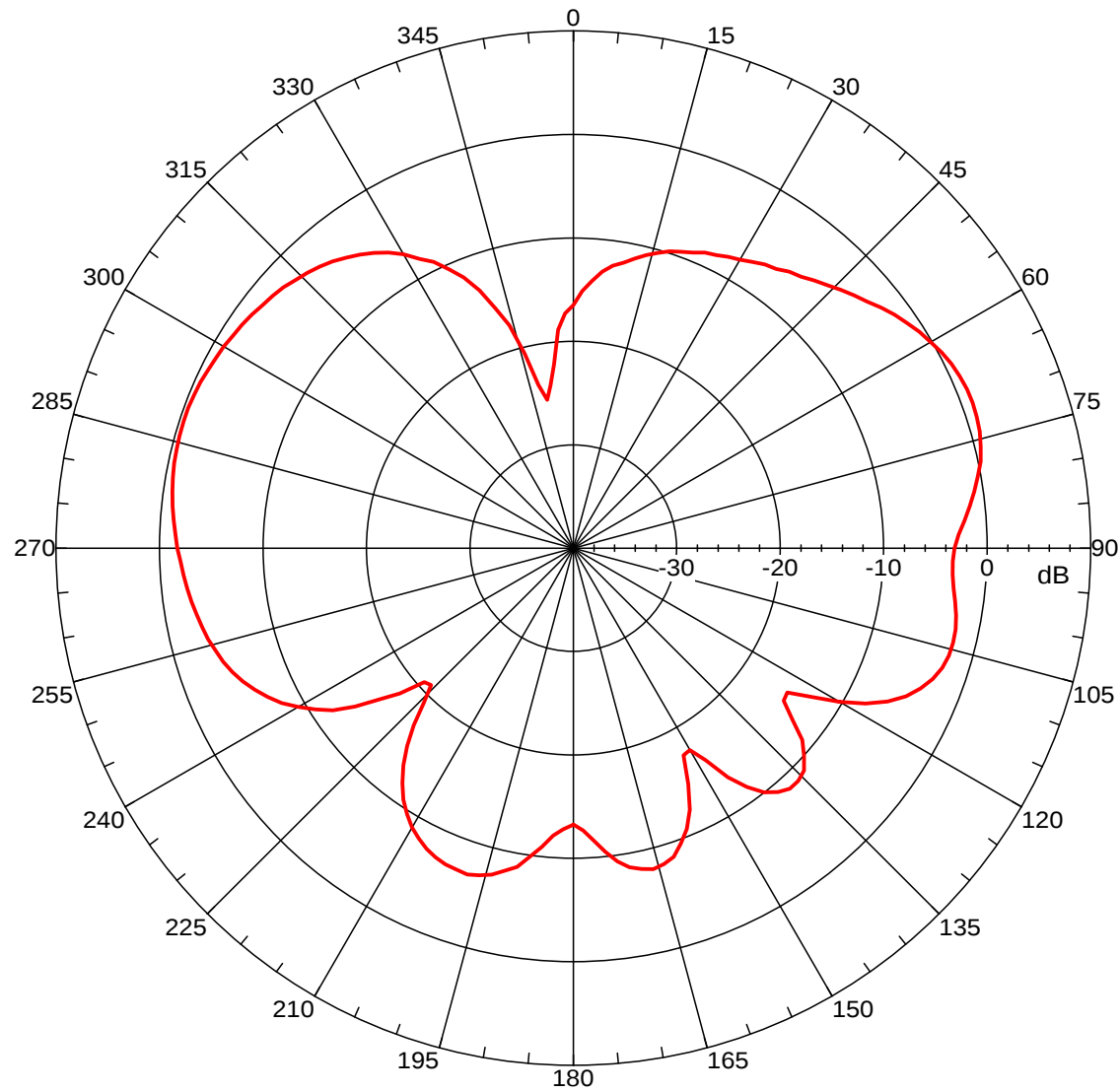
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.15852 dBi
Max far-field (global) = -40.47115 dB, Max far-field (plot) = -40.47116 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 75.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -2.316 dB
-3. dB beam width: 52.93 deg
-6. dB beam width: 118.65 deg
-10. dB beam width: 136.71 deg
Left Sidelobe: -1.10 dB at -57.318 deg
Right Sidelobe: -2.17 dB at 133.743 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 10

Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



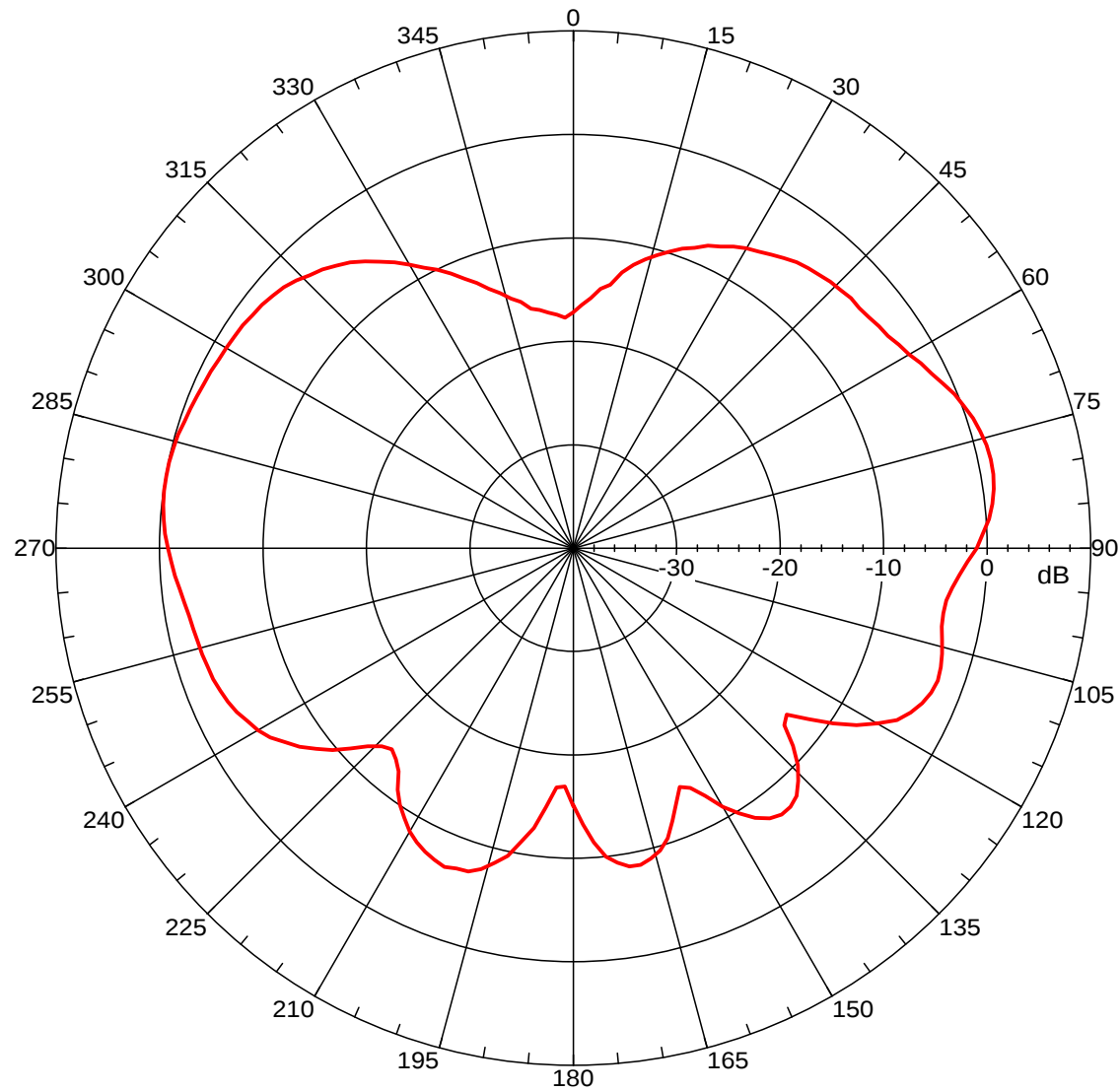
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 1.05773 dBi
Max far-field (global) = -44.13486 dB, Max far-field (plot) = -44.13488 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 69.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -5.825 dB
-3. dB beam width: 32.62 deg
-6. dB beam width: 71.60 deg
-10. dB beam width: 96.24 deg
Left Sidelobe: -1.45 dB at -69.385 deg
Right Sidelobe: -3.24 dB at 105.587 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 10

Beam	Frequency	Azimuth	Elevation	Pol
5	1.710 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 1.23208 dBi
Max far-field (global) = -45.58996 dB, Max far-field (plot) = -45.590 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 78.000 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97

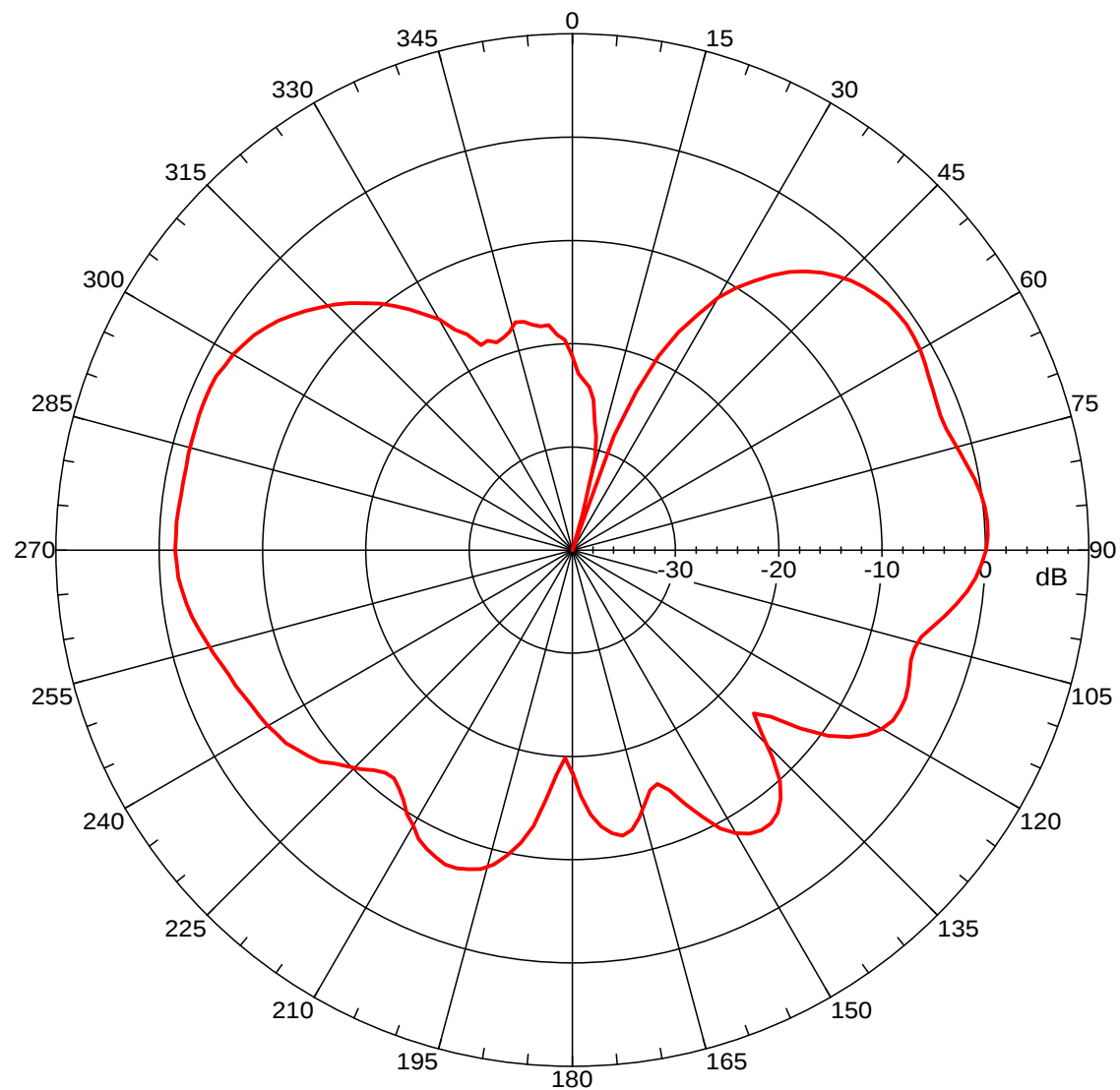
Far-field Cut Analysis:
Avg value: -5.385 dB
-3. dB beam width: 29.08 deg
-6. dB beam width: 79.40 deg
-10. dB beam width: 101.94 deg
Left Sidelobe: -1.31 dB at -77.430 deg
Right Sidelobe: -3.75 dB at 111.620 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 0.26606 dBi
 Max far-field (global) = -46.7709 dB, Max far-field (plot) = -46.77095 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 85.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -6.578 dB
 -3. dB beam width: 53.75 deg
 -6. dB beam width: 83.06 deg
 -10. dB beam width: 94.30 deg
 Left Sidelobe: -1.22 dB at 57.318 deg
 Right Sidelobe: -7.55 dB at 147.821 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

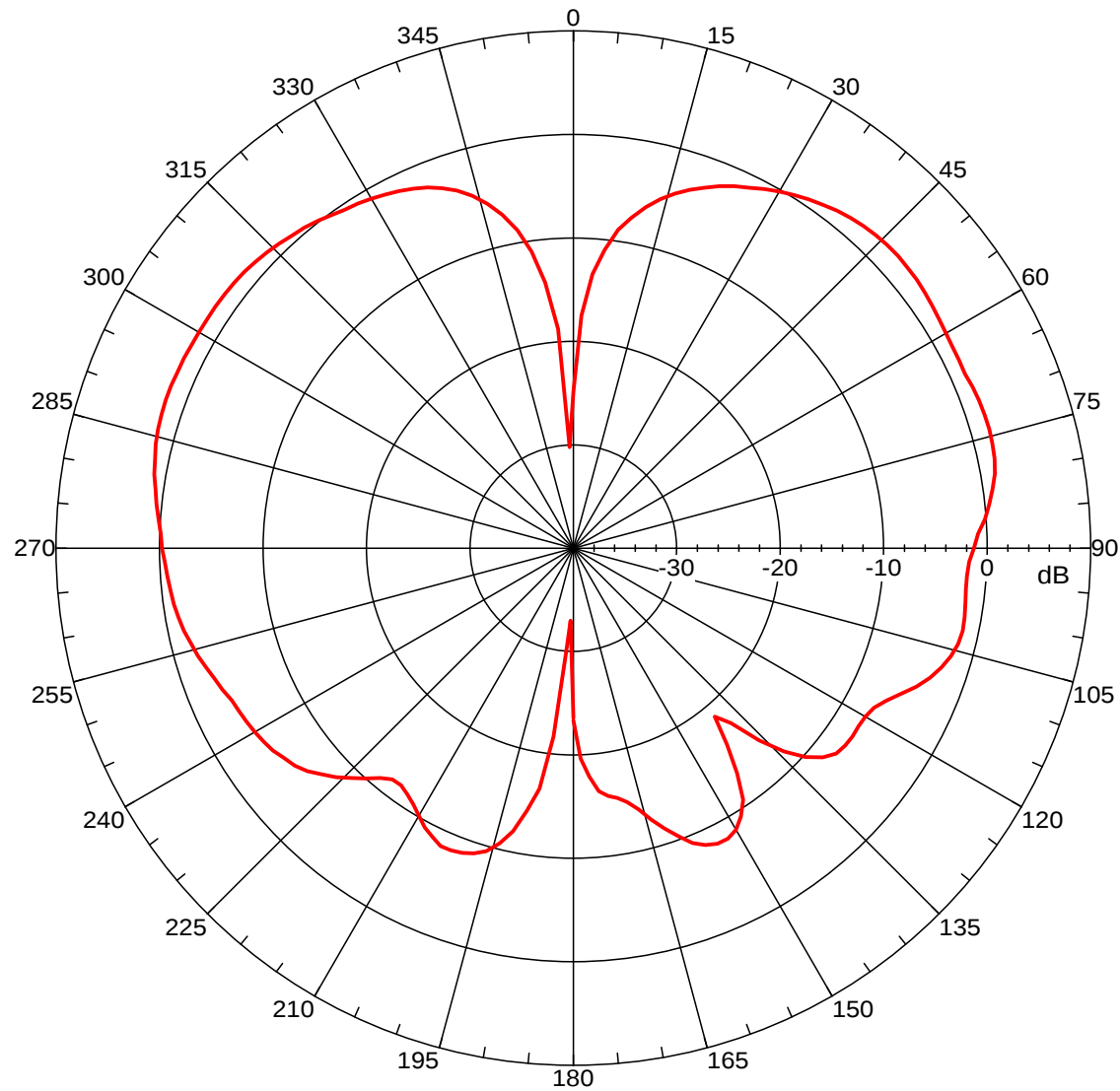
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
7	1.900 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



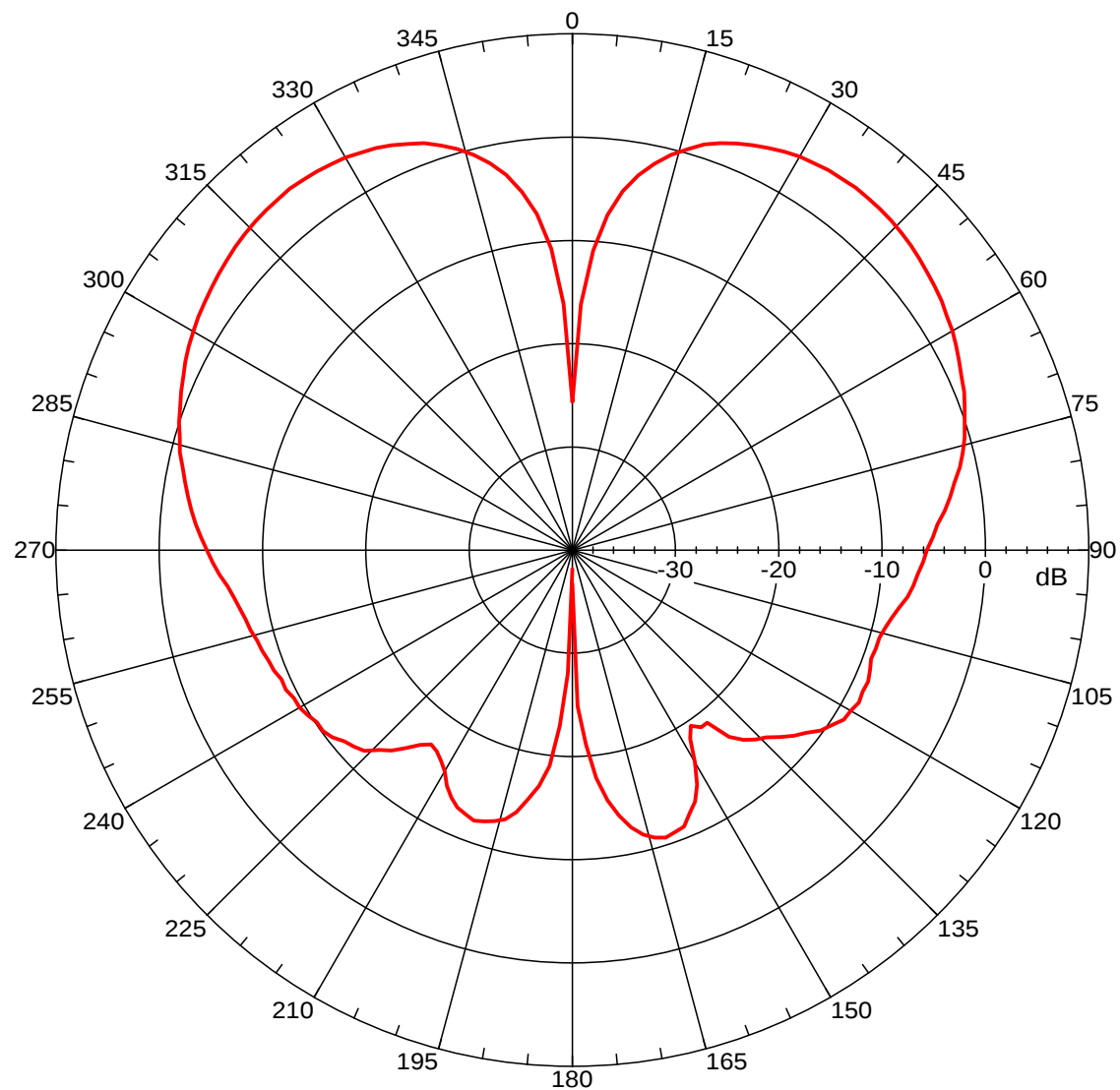
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.22169 dBi
Max far-field (global) = -45.31042 dB, Max far-field (plot) = -45.31043 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 47.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -3.155 dB
-3. dB beam width: 60.36 deg
-6. dB beam width: 94.04 deg
-10. dB beam width: 119.02 deg
Left Sidelobe: -0.37 dB at -63.352 deg
Right Sidelobe: -10.40 dB at 153.855 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 10

Beam	Frequency	Azimuth	Elevation	Pol
8	2.170 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 4.53033 dBi
 Max far-field (global) = -44.4773 dB, Max far-field (plot) = -44.47732 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 37.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -3.045 dB
 -3. dB beam width: 46.11 deg
 -6. dB beam width: 65.26 deg
 -10. dB beam width: 82.19 deg
 Left Sidelobe: -0.13 dB at -37.207 deg
 Right Sidelobe: -15.23 dB at 163.911 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

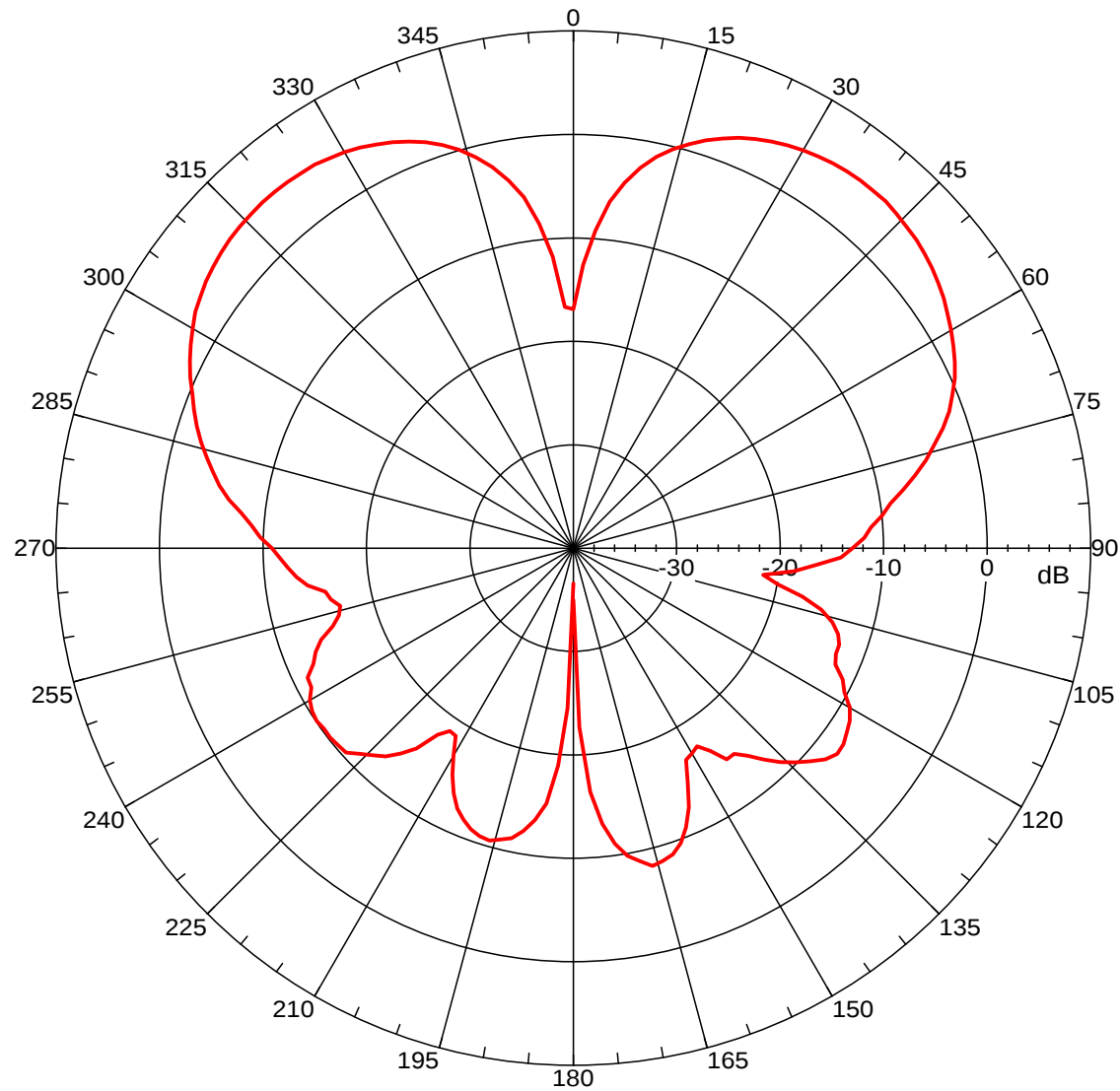
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
9	2.400 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -E.nsi



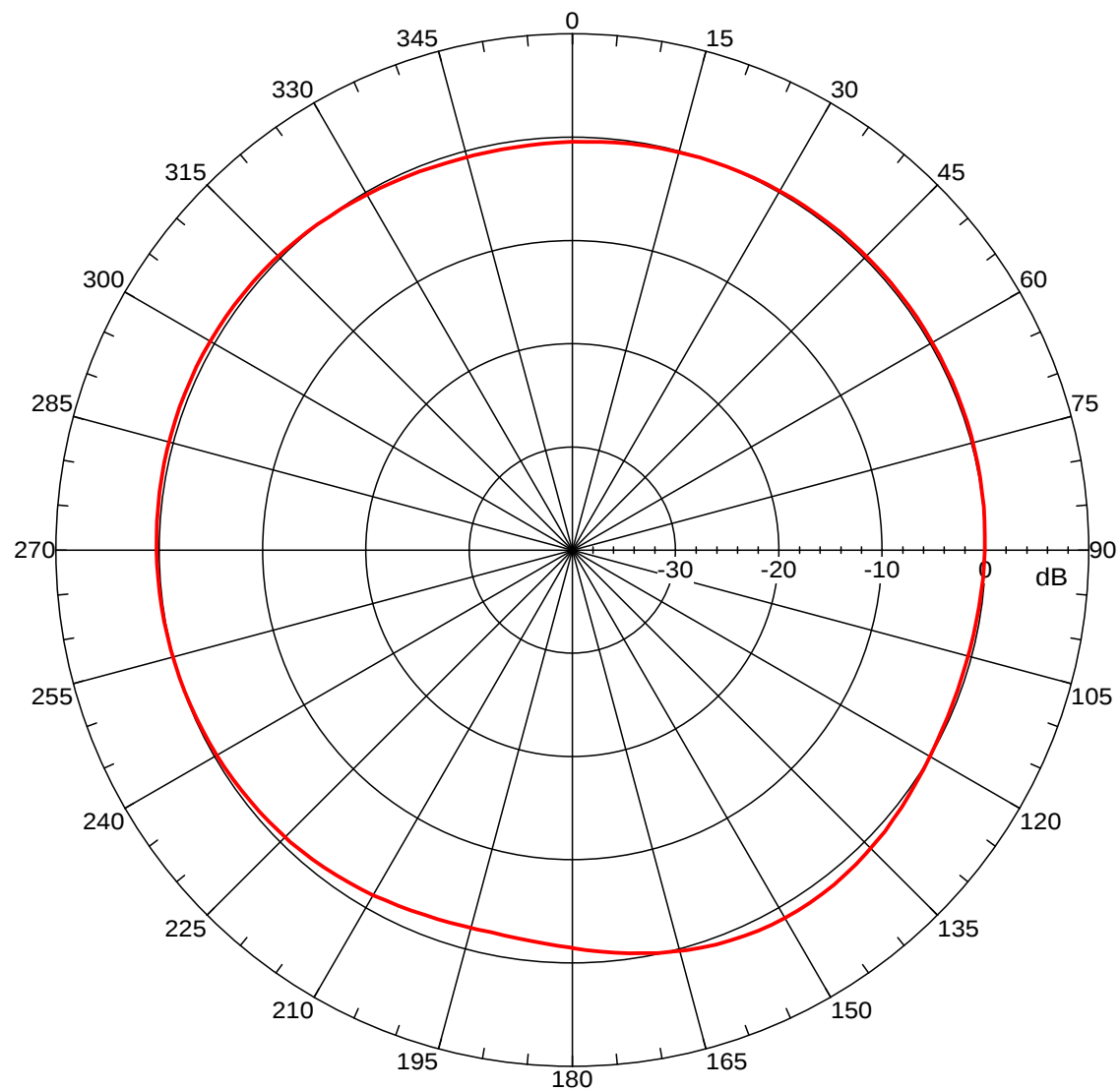
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 5.09888 dBi
Max far-field (global) = -45.21791 dB, Max far-field (plot) = -45.21791 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 41.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -3.538 dB
-3. dB beam width: 40.50 deg
-6. dB beam width: 56.47 deg
-10. dB beam width: 69.00 deg
Left Sidelobe: -0.16 dB at -39.218 deg
Right Sidelobe: -12.75 dB at 129.721 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 10

Beam	Frequency	Azimuth	Elevation	Pol
10	2.600 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.193 dBi
 Max far-field (global) = -41.55527 dB, Max far-field (plot) = -41.55528 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 148.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

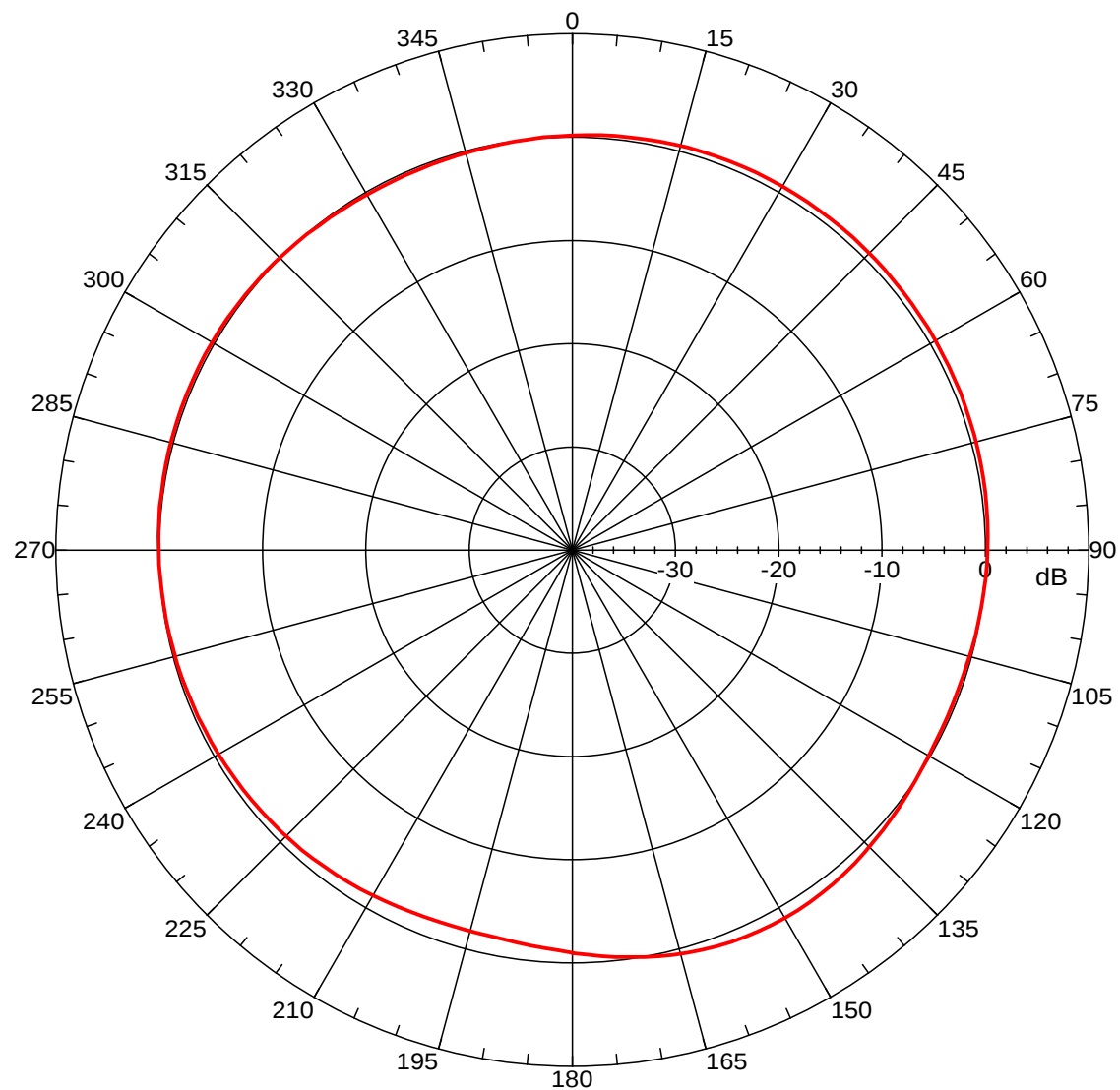
NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -0.119 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -0.72 dB at -61.341 deg
 Right Sidelobe: Not Found
 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 10

Beam	Frequency	Azimuth	Elevation	Pol
1	0.806 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.16322 dBi
 Max far-field (global) = -40.09364 dB, Max far-field (plot) = -40.09367 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 148.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: 0.008 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: Not Found
 Right Sidelobe: Not Found

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

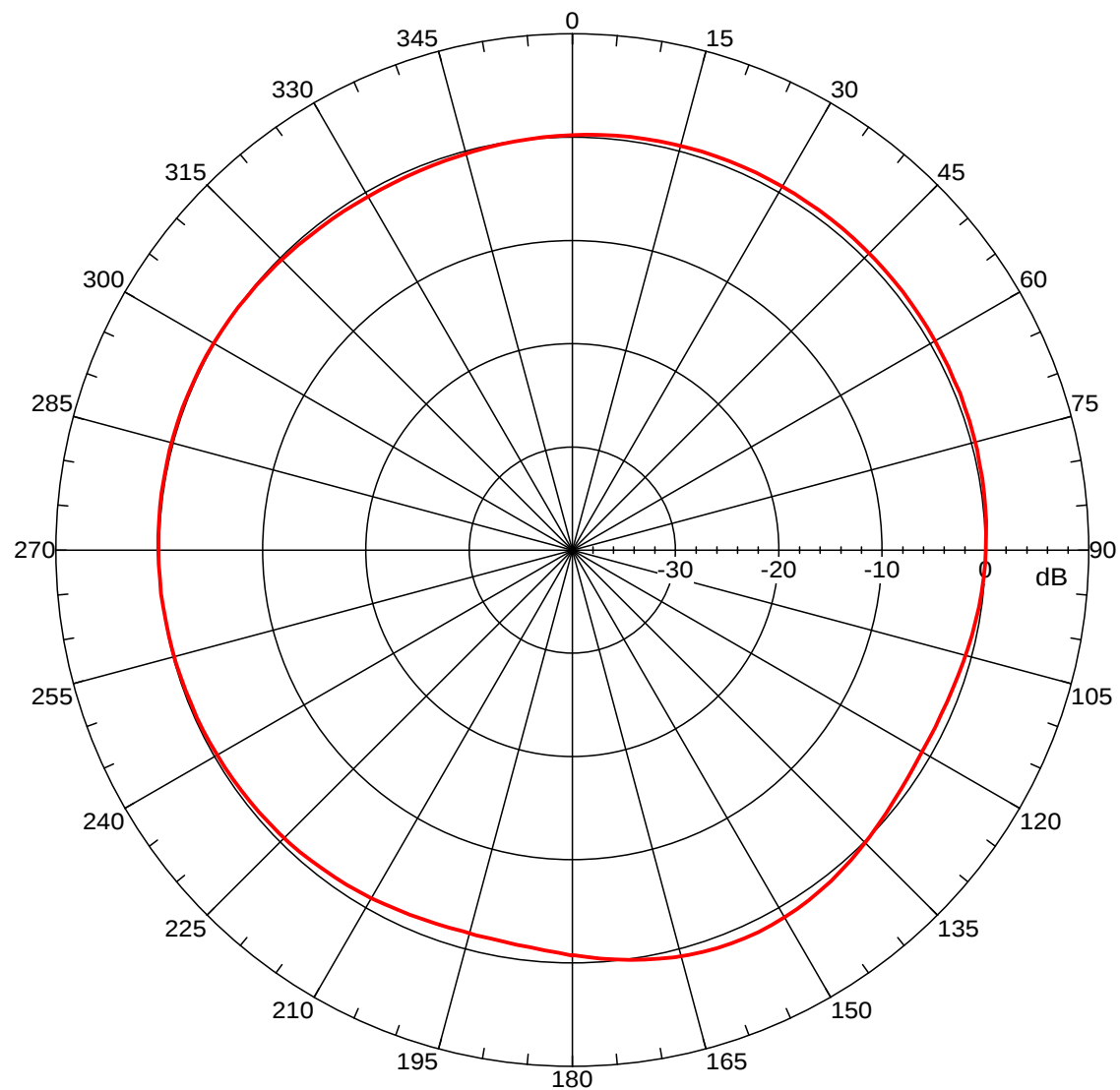
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
2	0.850 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.14598 dBi
 Max far-field (global) = -40.4137 dB, Max far-field (plot) = -40.41372 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 153.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -0.050 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -0.71 dB at 73.408 deg
 Right Sidelobe: Not Found

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

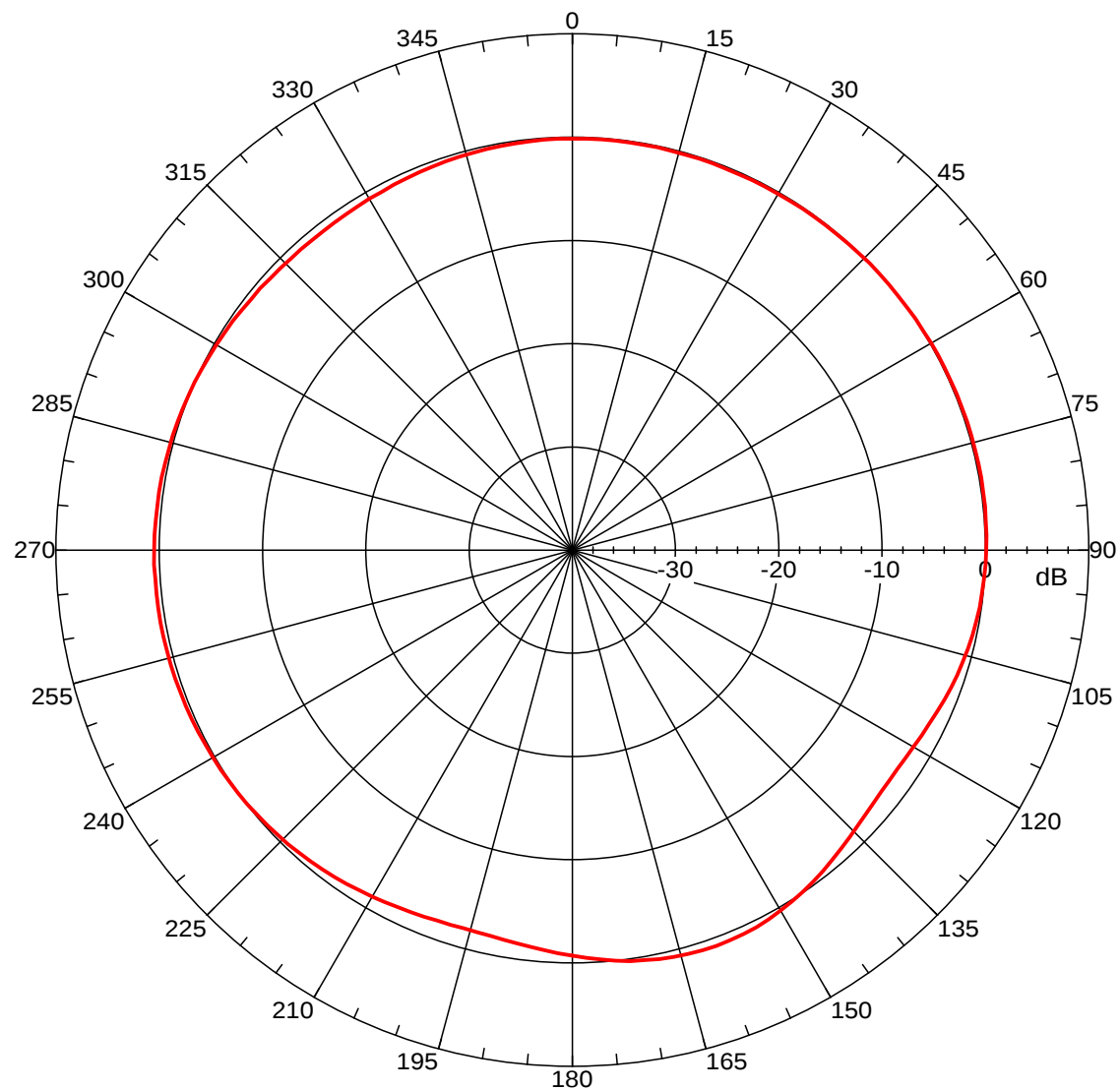
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
3	0.900 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 0.79185 dBi
 Max far-field (global) = -41.83782 dB, Max far-field (plot) = -41.83784 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 160.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

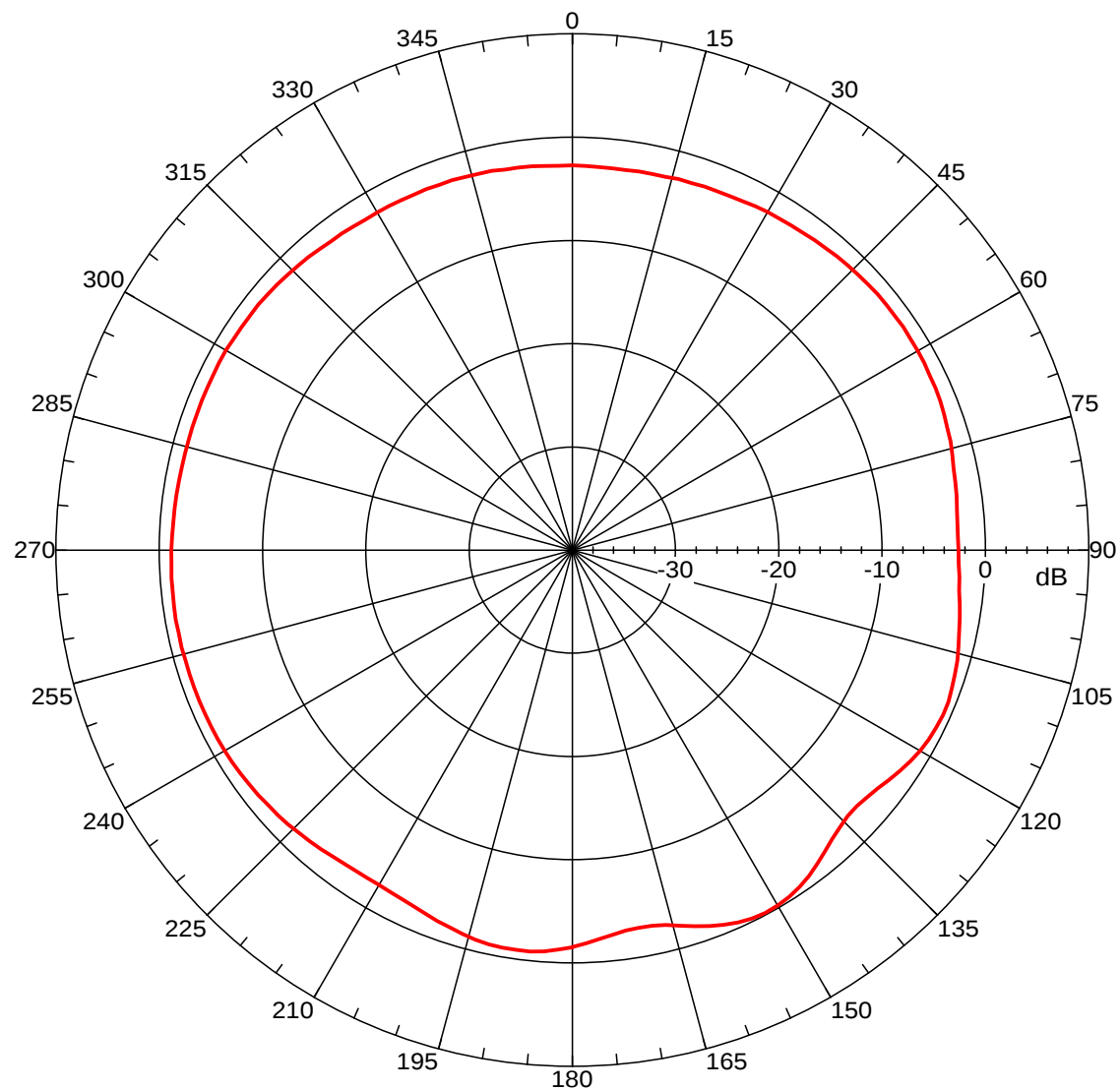
Far-field Cut Analysis:
 Avg value: -0.310 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -0.61 dB at 85.475 deg
 Right Sidelobe: Not Found

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 10

Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = -0.21048 dBi
 Max far-field (global) = -45.40307 dB, Max far-field (plot) = -45.4031 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 151.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

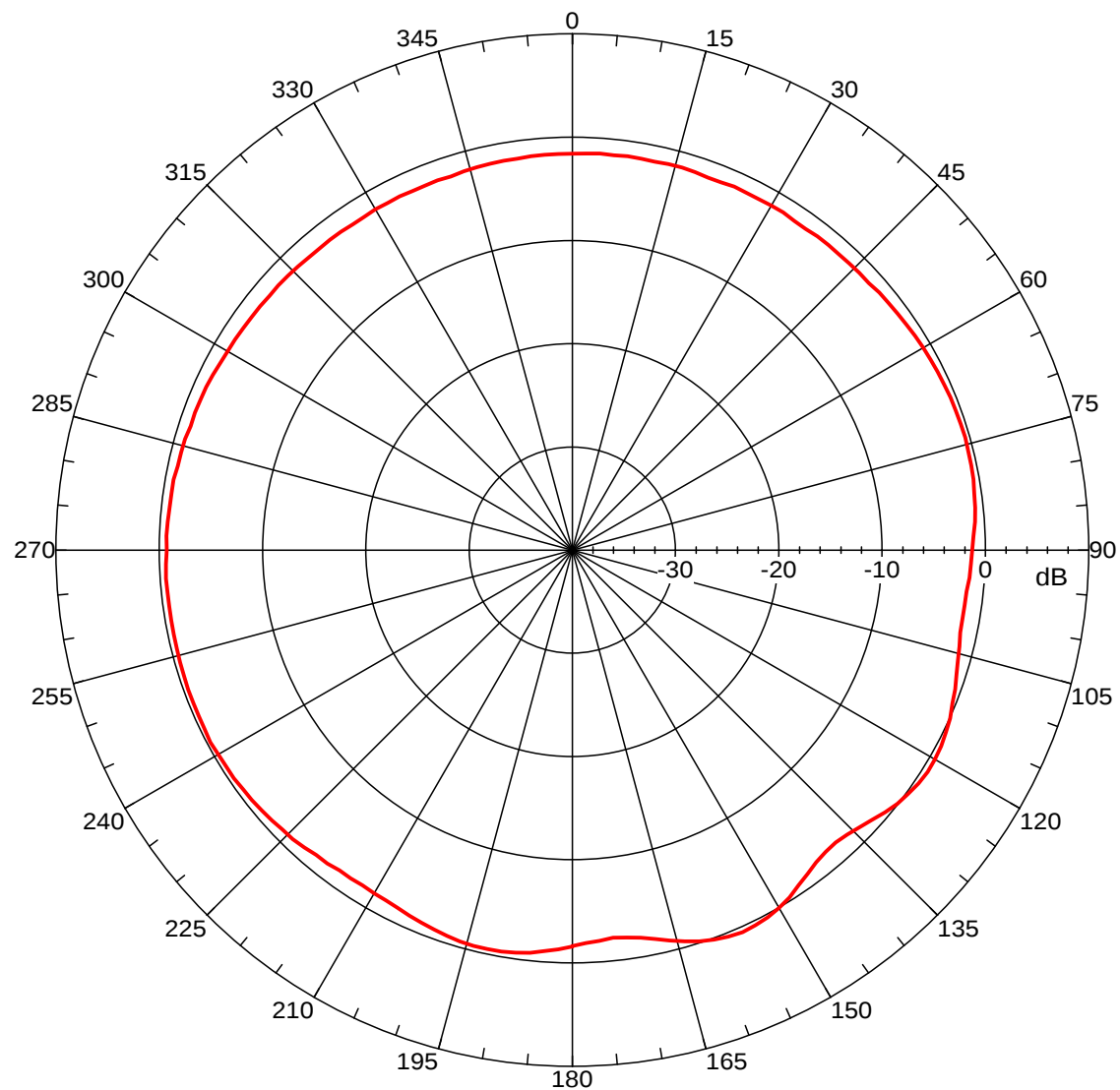
NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -1.763 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -0.50 dB at 115.643 deg
 Right Sidelobe: Not Found
 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 10

Beam	Frequency	Azimuth	Elevation	Pol
5	1.710 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 0.55141 dBi
 Max far-field (global) = -46.27063 dB, Max far-field (plot) = -46.27065 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 121.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -1.069 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -1.00 dB at 75.419 deg
 Right Sidelobe: -0.04 dB at 157.877 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

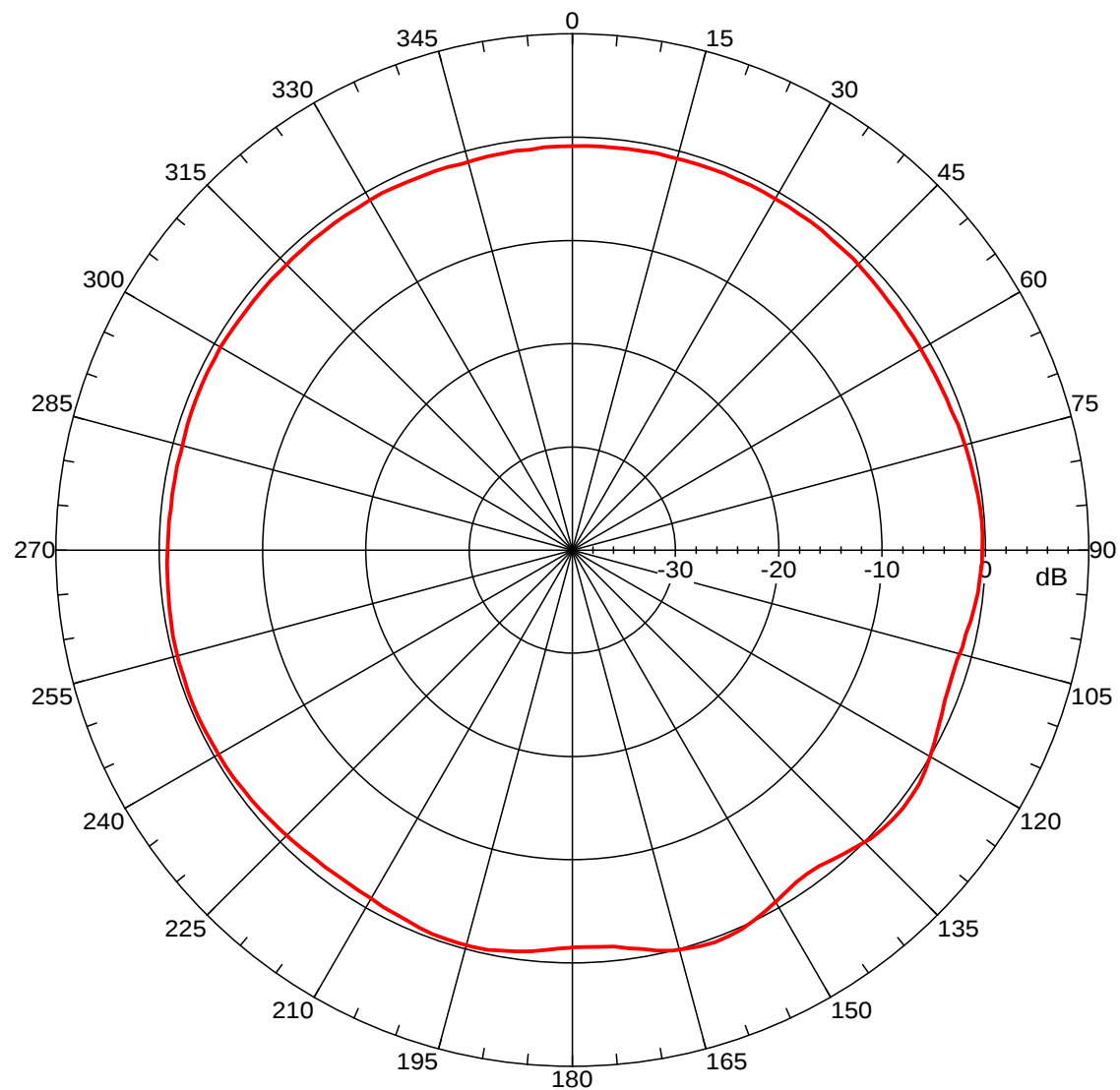
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 0.63256 dBi
 Max far-field (global) = -46.4044 dB, Max far-field (plot) =
 -46.4044 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 128.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -0.698 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: Not Found
 Right Sidelobe: -0.22 dB at 161.899 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

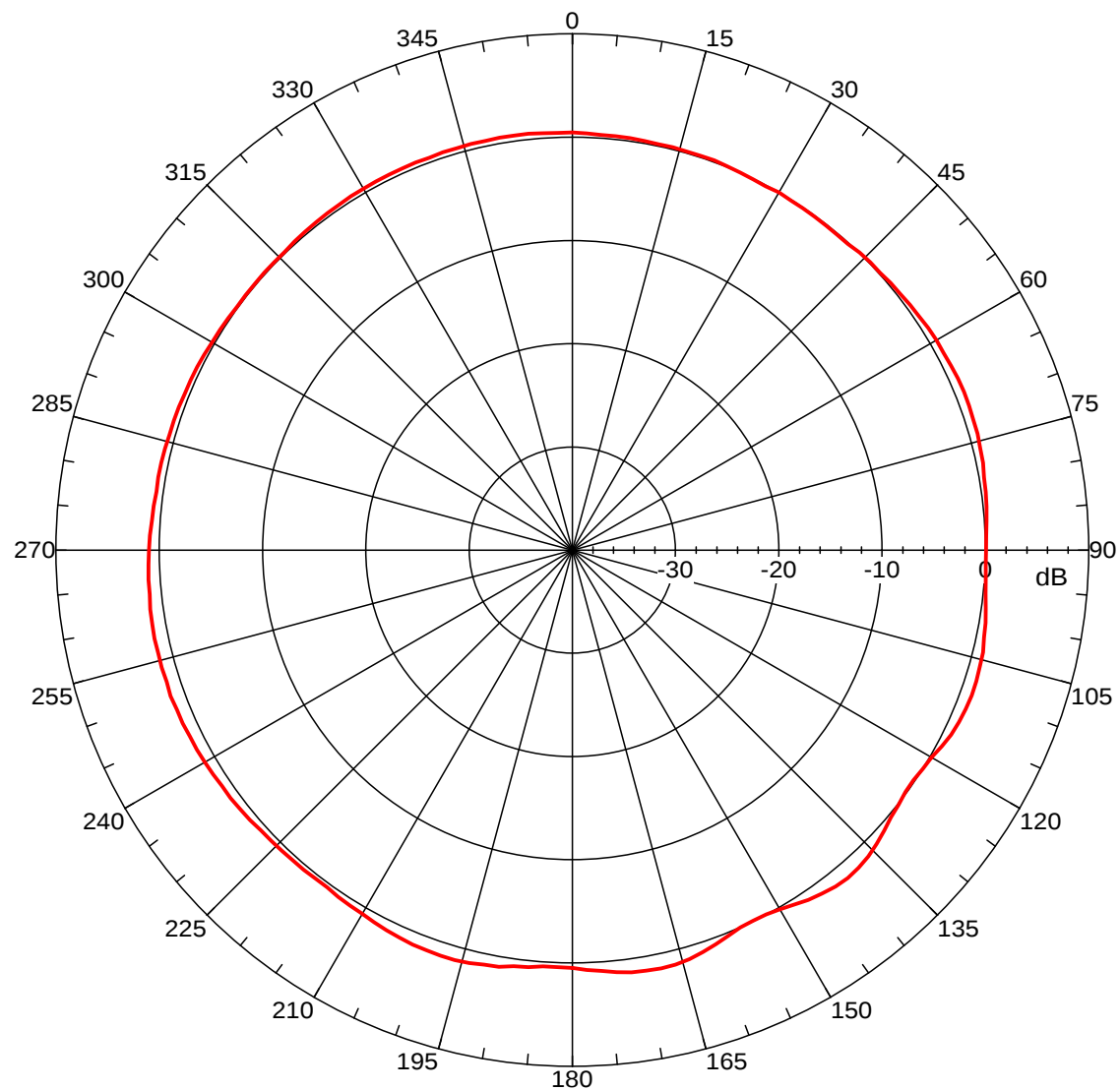
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
7	1.900 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.47389 dBi
 Max far-field (global) = -46.05822 dB, Max far-field (plot) = -46.05827 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 140.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: 0.595 dB

-3. dB beam width: Not Found

-6. dB beam width: Not Found

-10. dB beam width: Not Found

Left Sidelobe: -0.32 dB at 111.620 deg

Right Sidelobe: -0.05 dB at 169.944 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

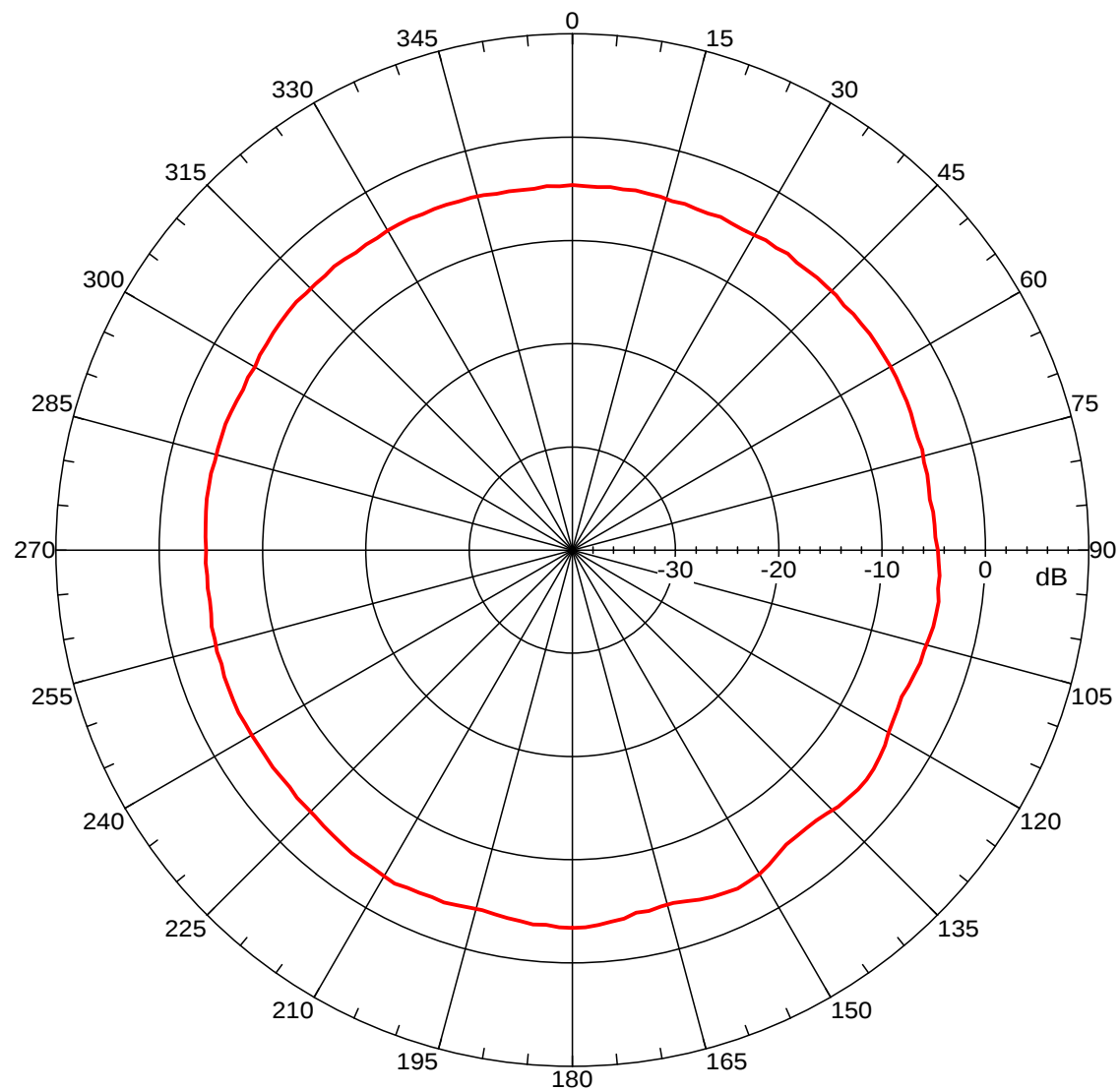
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

Beam	Frequency	Azimuth	Elevation	Pol
8	2.170 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of MB-07F -H.nsi



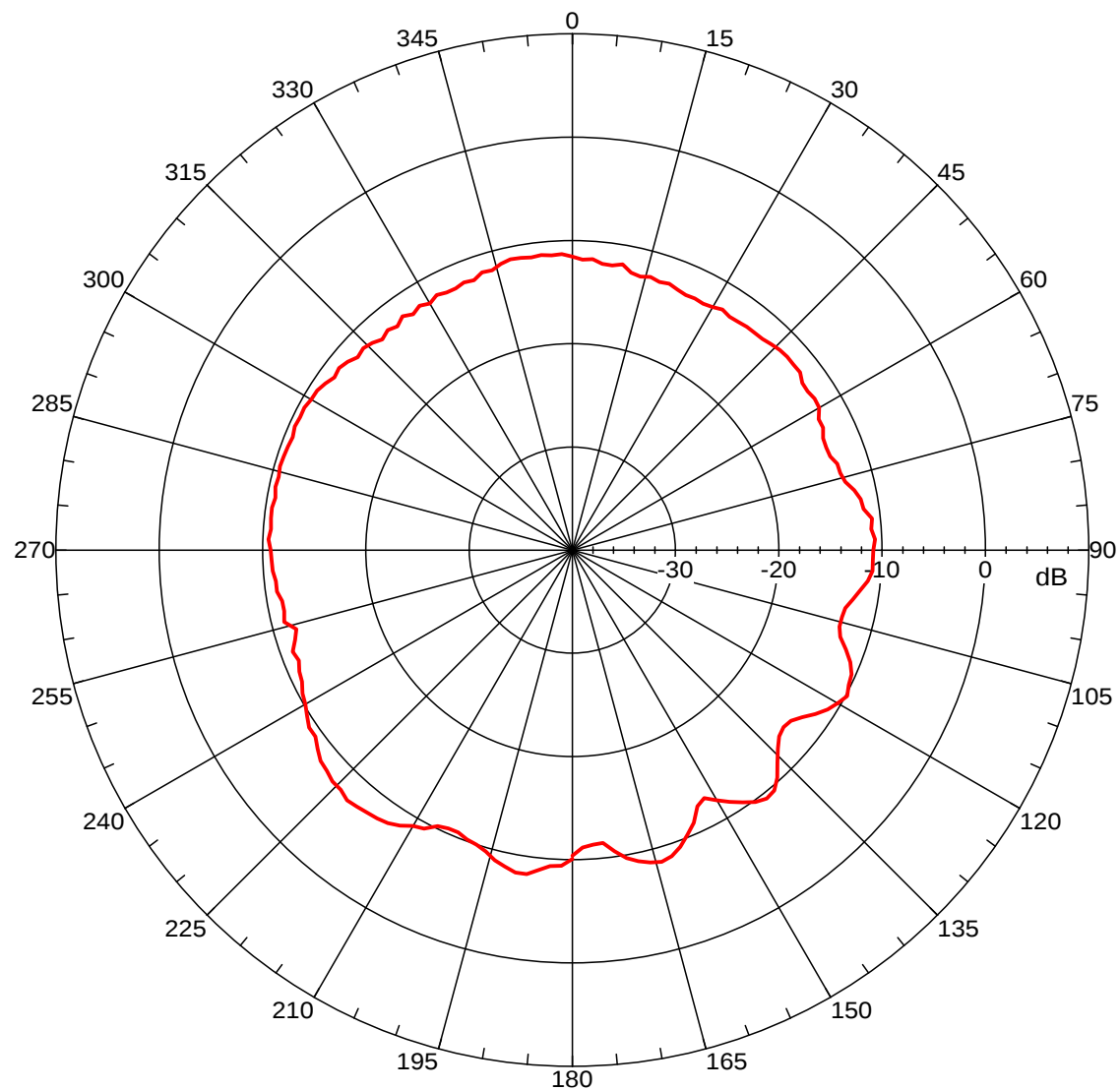
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -3.38878 dBi
Max far-field (global) = -52.39641 dB, Max far-field (plot) = -52.39646 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 179.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -4.336 dB
-3. dB beam width: Not Found
-6. dB beam width: Not Found
-10. dB beam width: Not Found
Left Sidelobe: Not Found
Right Sidelobe: -0.45 dB at 129.721 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 10
Beam Frequency Azimuth Elevation Pol

9 2.400 GHz Azimuth Elevation Single-pol

Far-field amplitude of MB-07F -H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = -7.40289 dBi
 Max far-field (global) = -57.71968 dB, Max far-field (plot) = -57.71989 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -138.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\20
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -11.030 dB
 -3. dB beam width: 37.28 deg
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -0.89 dB at -169.944 deg
 Right Sidelobe: -3.72 dB at -97.542 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 10

Beam	Frequency	Azimuth	Elevation	Pol
10	2.600 GHz	Azimuth	Elevation	Single-pol