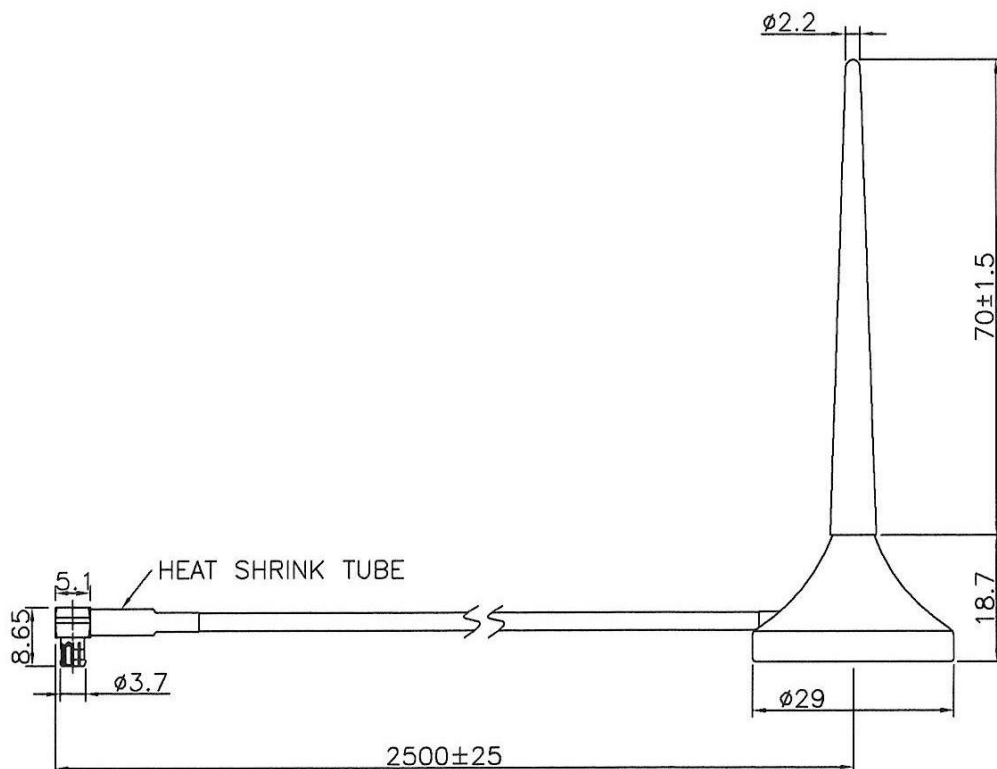


Art.no:202-906

Specification

1. *Product: C05A+MT44+316U+RA MCX M*
 2. *Frequency:698~960/1710~2170/2300~2700 MHz*
 3. *VSWR: 3.2:1*
 4. *Gain:0~3dB*
 5. *Impedance:50 Ω*
 6. *Cable: RG316U*
 7. *Connector: RA MCX M*
- ✳️RoHS Compliant*





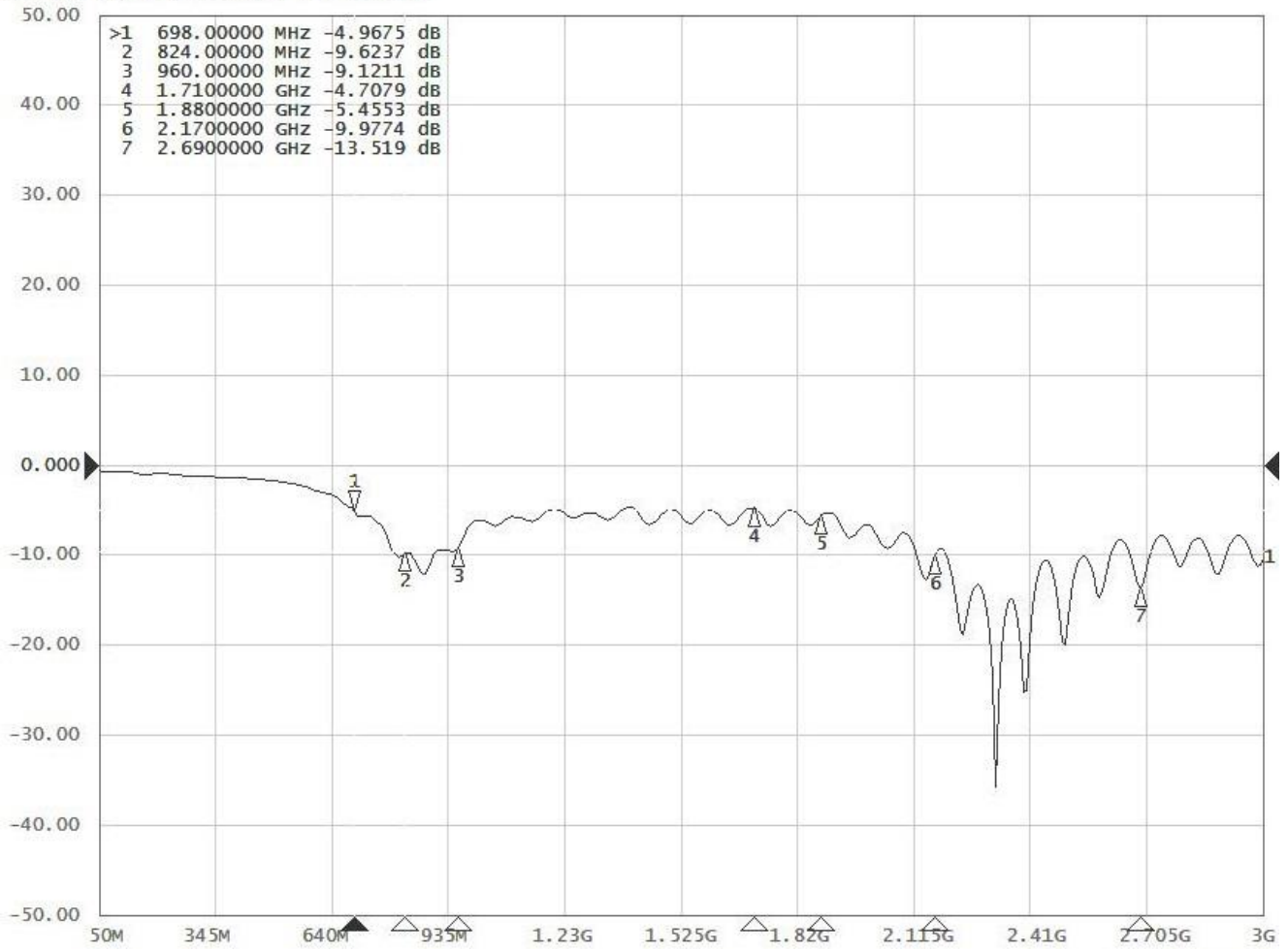
RA MCX M

ELECTRICAL

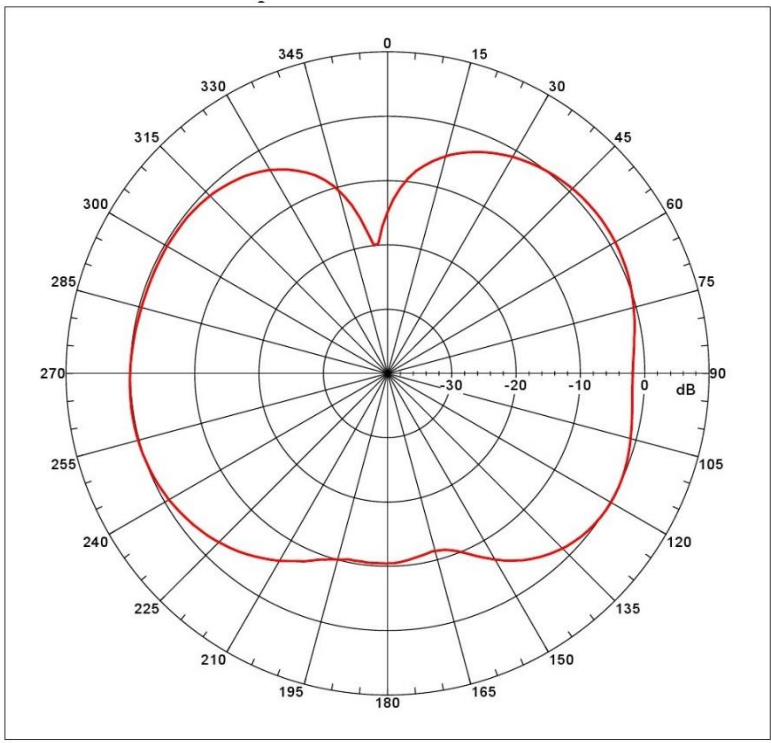
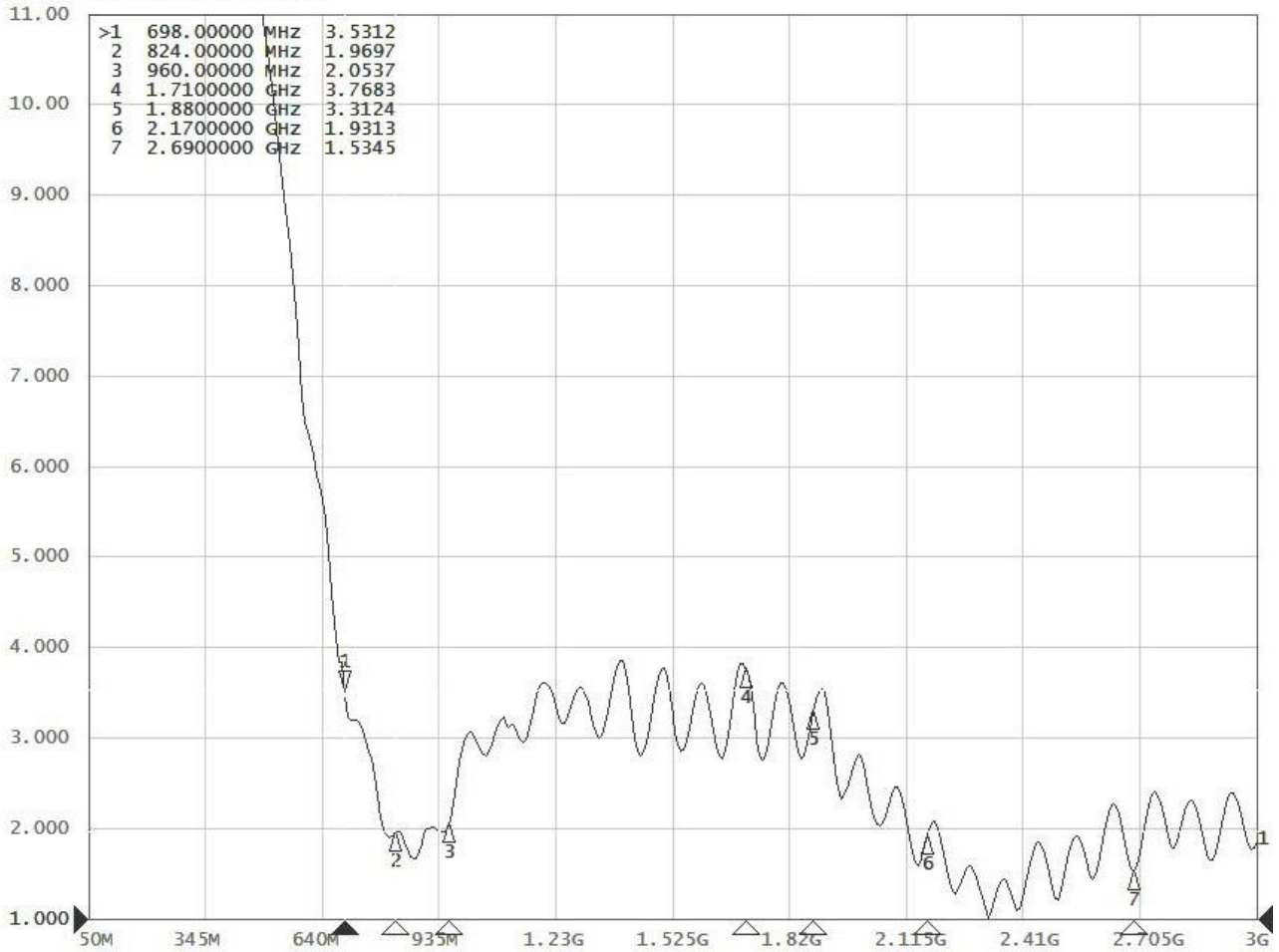
Frequency (MHz)	Return Loss (dB)	VSWR (dB)	H-plane (dB)	E-plane (dB)
698	-4.96	3.53	-----	-----
824	-9.62	1.96	-----	-----
850	-----	-----	1.16	0.97
960	-9.12	2.05	0.79	2.15
1710	-4.70	3.76	-0.21	1.05
1800	-----	-----	-0.55	1.23
1880	-5.45	3.31	-----	-----
2170	-9.97	1.93	-1.47	2.22
2600	-----	-----	-7.40	5.09
2690	-13.51	1.53	-----	-----

Test Report

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB



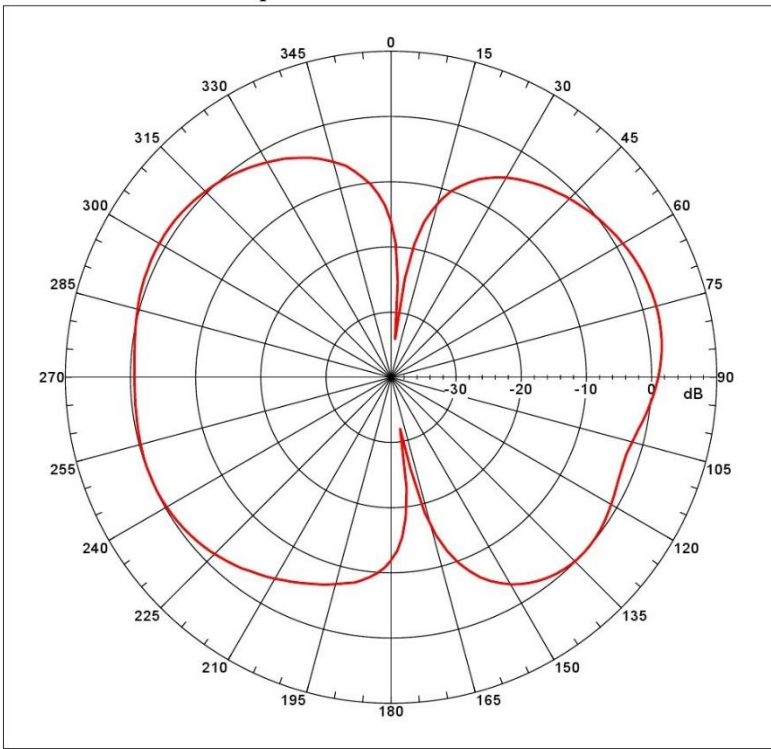
SWR 1.000/ Ref 1.000



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: 53.58595 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI0000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop
 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: 148.41 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
1	0.850 GHz	Azimuth	Elevation	Single-pol



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 2.15552 dBi
 Max far-field (global) = -40.47115 dB, Max far-field (plot) =
 -40.47115 dB
 Normalization: Reference, Network offset = 0.000 dB
 Vpeak at: 75.85959 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename: C:\Documents and Settings\MSI\Desktop

Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-57

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

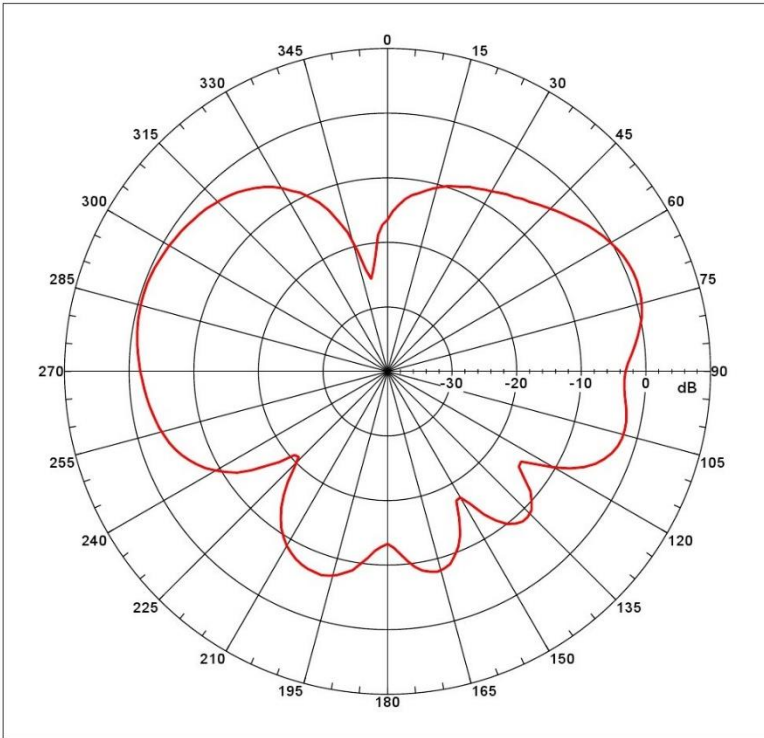
Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)
 Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

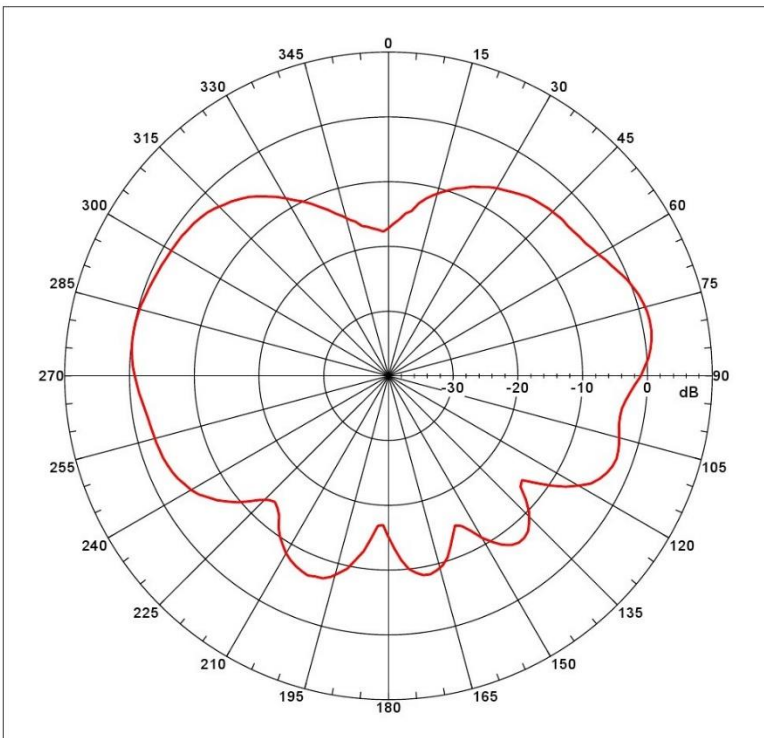
Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.05773 dBi
 Max far-field (global) = -44.13486 dB, Max far-field (plot) = -44.13486 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 69.55555 deg, Vpeak at: 0.000 deg
 Plot centering: 0m

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop
 Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: -5.225 dB
 -3. dB beam width: 32.62 deg
 -6. dB beam width: 71.60 deg
 -10. dB beam width: 56.24 deg
 Left Sidelobe: -1.45 dB at 29.385 deg
 Right Sidelobe: -1.24 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

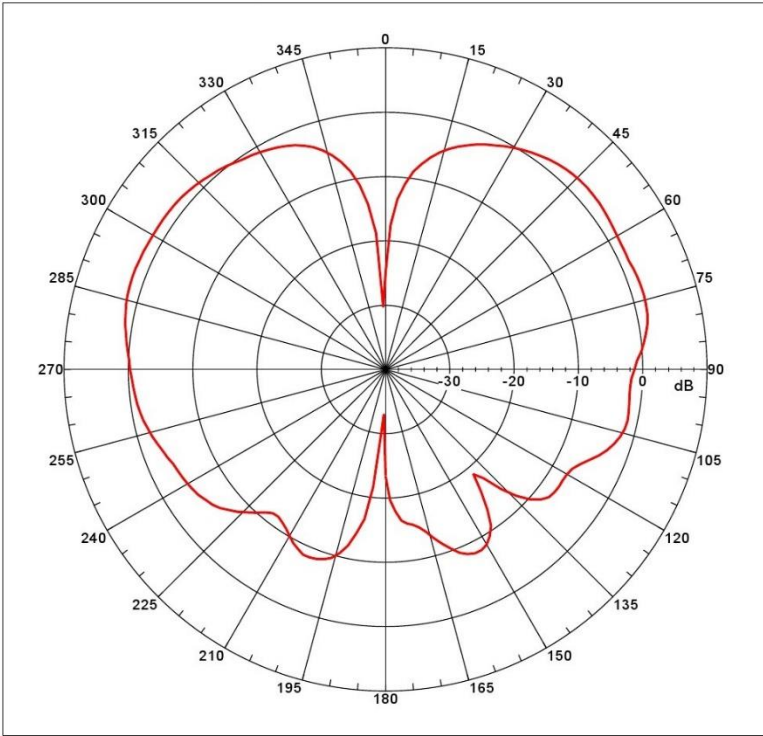
 5 1.710 GHz Azimuth Elevation Single-pol



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.23208 dBi
 Max far-field (global) = -45.58596 dB, Max far-field (plot) = -45.58596 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 78.000 deg, Vpeak at: 0.000 deg
 Plot centering: 0m

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop
 Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: -3.385 dB
 -3. dB beam width: 26.08 deg
 -6. dB beam width: 75.40 deg
 -10. dB beam width: 101.54 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

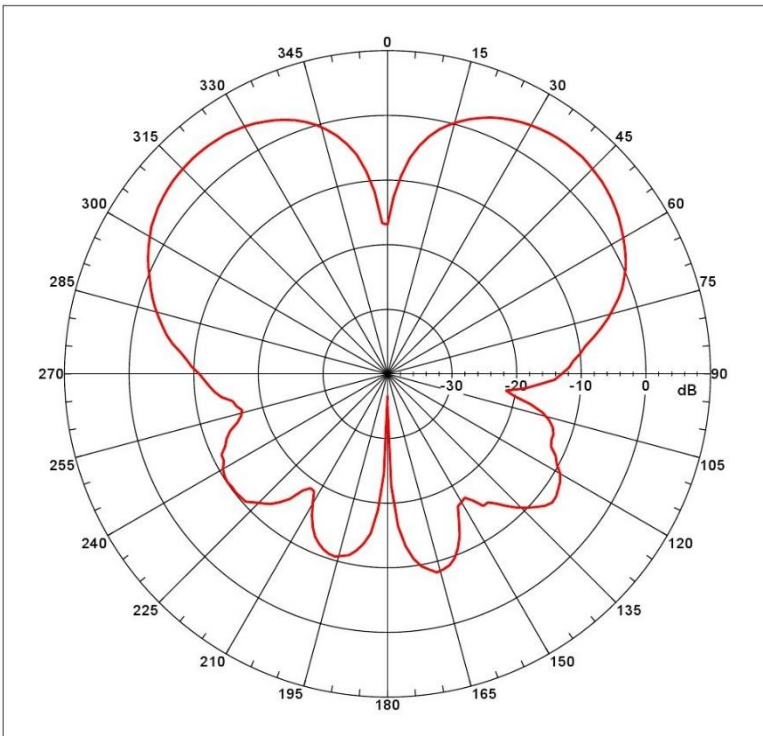
 6 1.800 GHz Azimuth Elevation Single-pol



Far-field amplitude, 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
 Rpeak at: 47.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

MSI2000 V4.0.124, Filename:C:\Documents and Settings\MSI\Desktop
 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

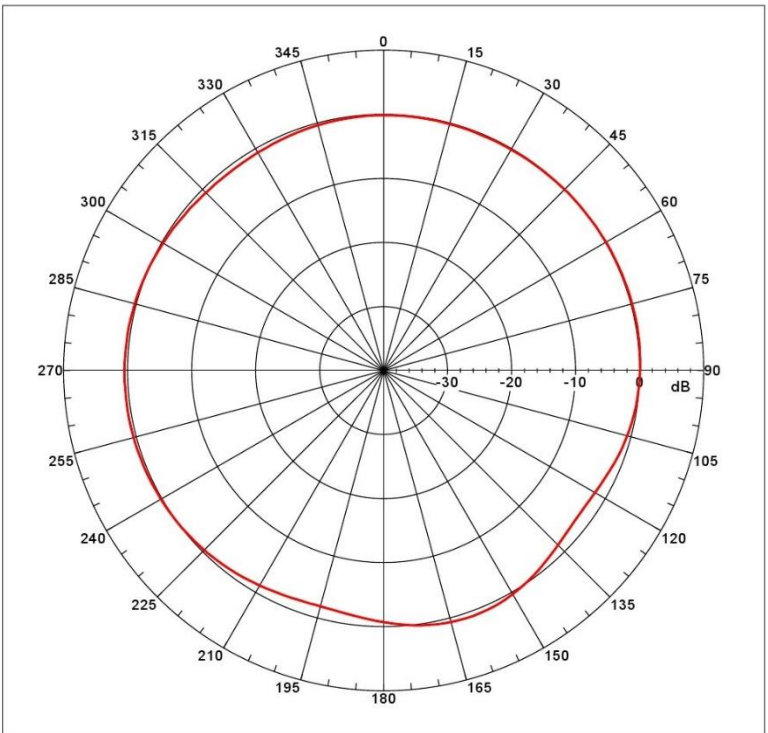
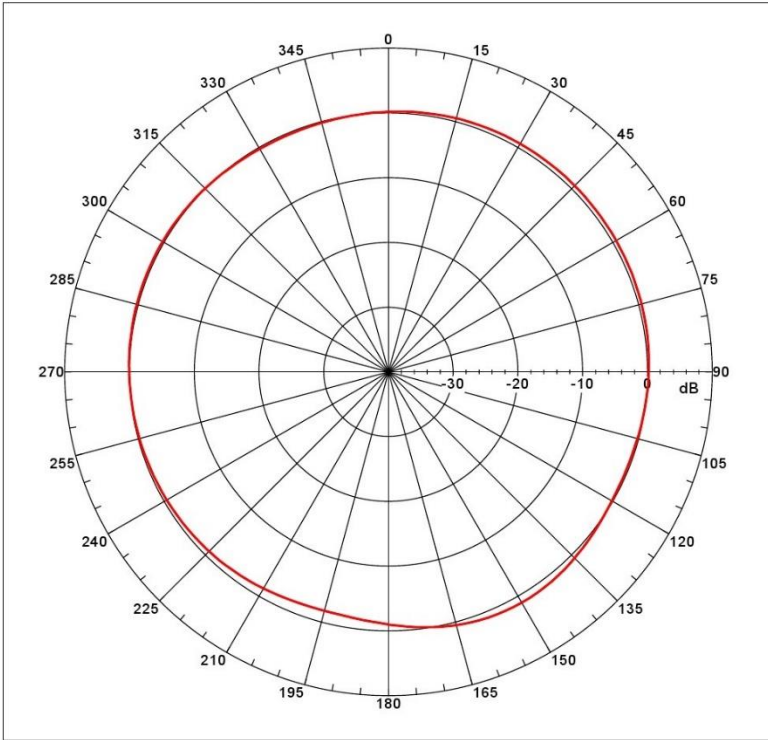
Beam	Frequency	Azimuth	Elevation	Pol
8	2.170 GHz	Azimuth	Elevation	Single-pol

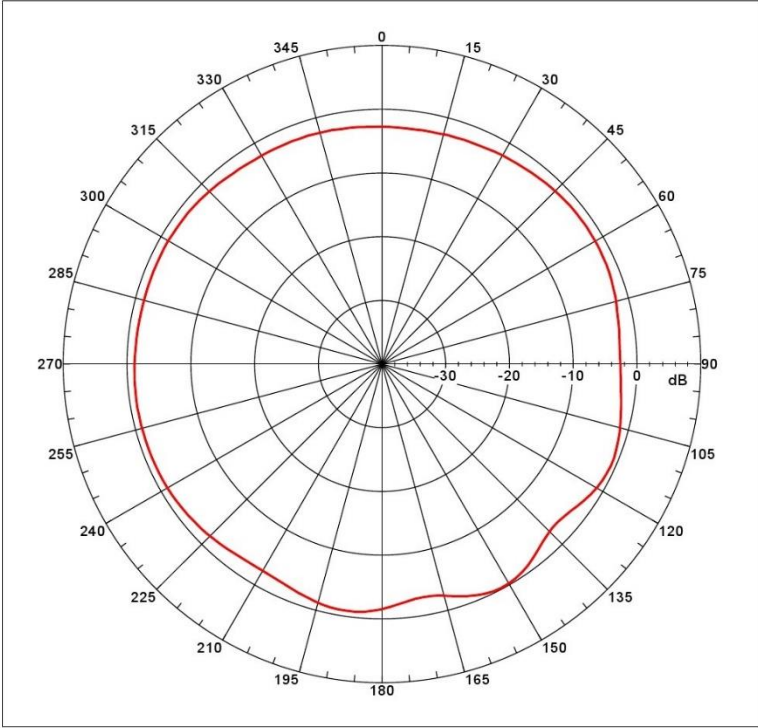


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 5.08998 dBi
 Max far-field (global) = -45.21791 dB, Max far-field (plot) =
 -45.21791 dB
 Normalization: Reference, Network offset = 0.000 dB
 Rpeak at: 41.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

MSI2000 V4.0.124, Filename:C:\Documents and Settings\MSI\Desktop
 Measurement date/time: 5/26/2014 2:13:27 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: -3.238 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: -11.75 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

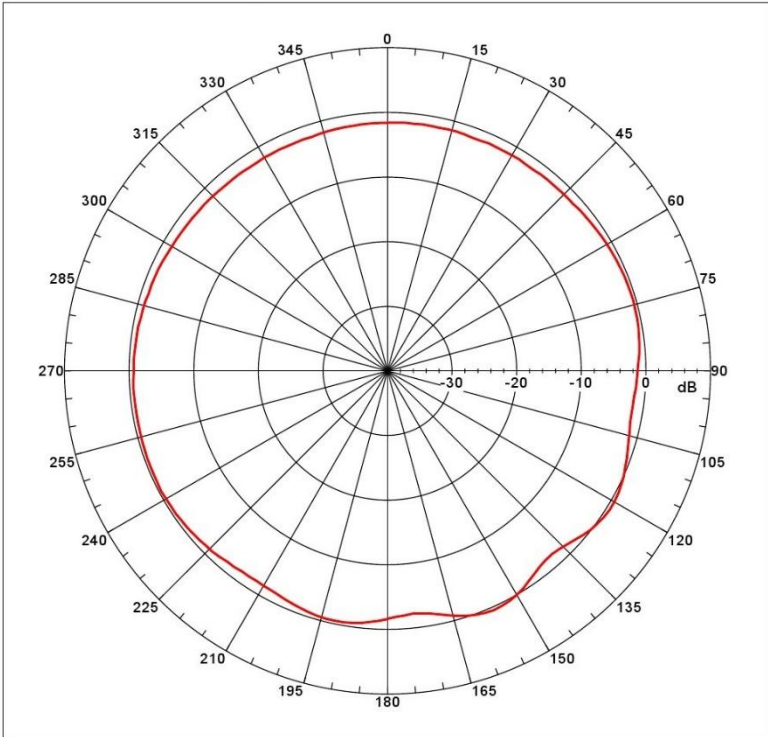




Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = -0.21048 dBi
 Max far-field (global) = -45.40307 dB, Max far-field (plot) = -45.4031 dB
 Normalization: Reference, Network offset = 0.000 dB
 Mpeak at: 151.95959 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop
 Measurement date/time: 5/26/2014 2:02:30 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

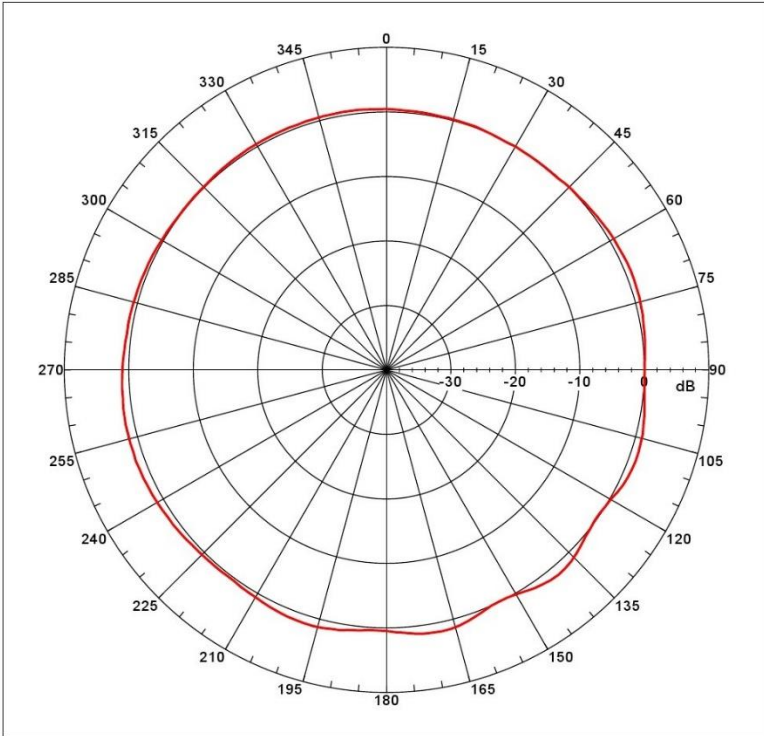
Beam	Frequency	Azimuth	Elevation	Pol
5	1.710 GHz			Single-pol



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
 Mpeak at: 121.55959 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: -1.055 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

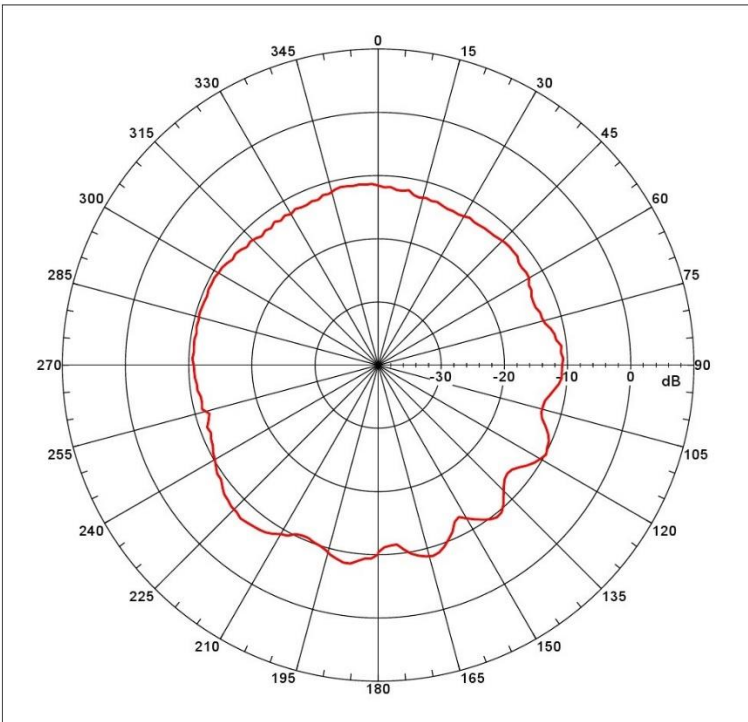
Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz			Single-pol



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.47359 dBi
 Max far-field (global) = -46.05822 dB, Max far-field (plot) =
 -46.05822 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
 Measurement date/time: 5/26/2014 2:02:38 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: 0.355 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, Eprincipal: Linear, Tau = 0.000 deg
 Gain = -7.40238 dBi
 Max far-field (global) = -57.71958 dB, Max far-field (plot) =
 -57.71958 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -132.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop
 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: -0.86 dB at -169.944 deg
 Right Sidelobe: -3.72 dB at -97.342 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