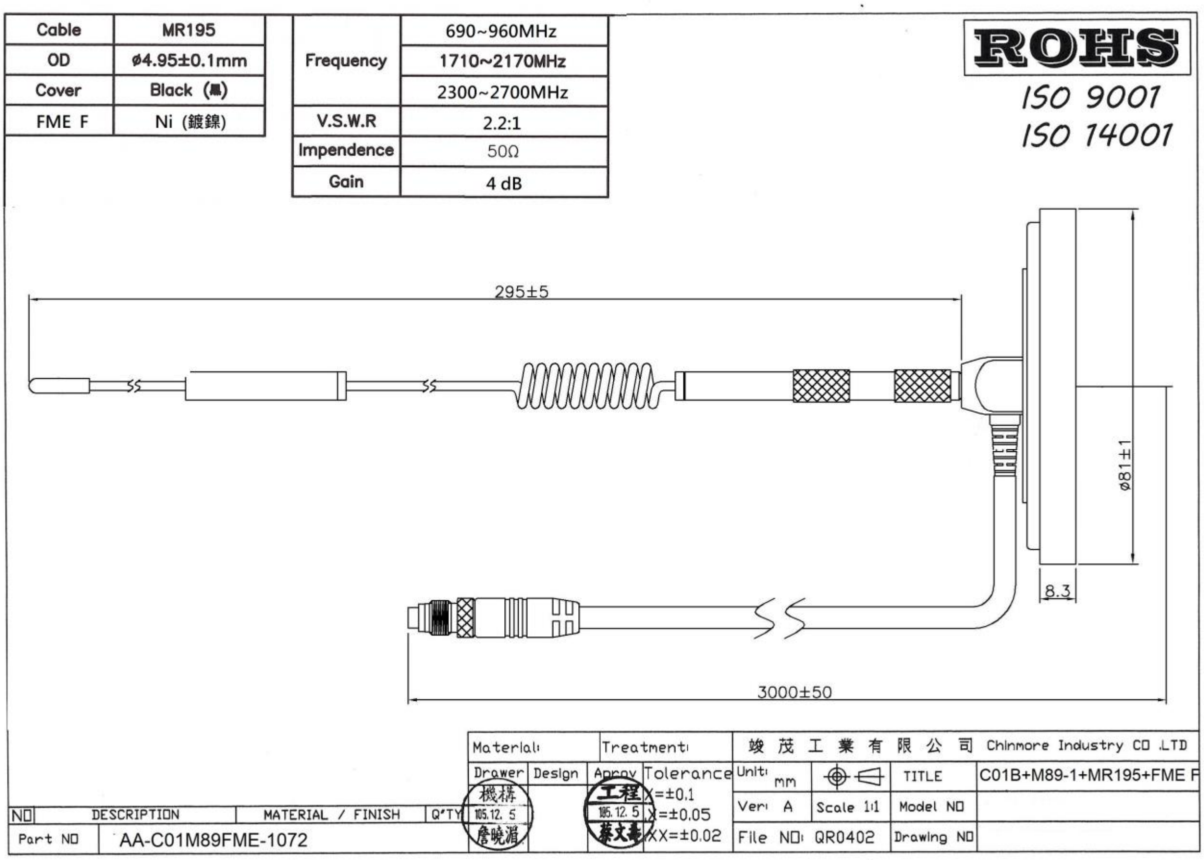
CHINMORE INDUSTRY CO.,LTD

Specification

Magnetic Mount Base with Whip Antenna for 4G/LTE

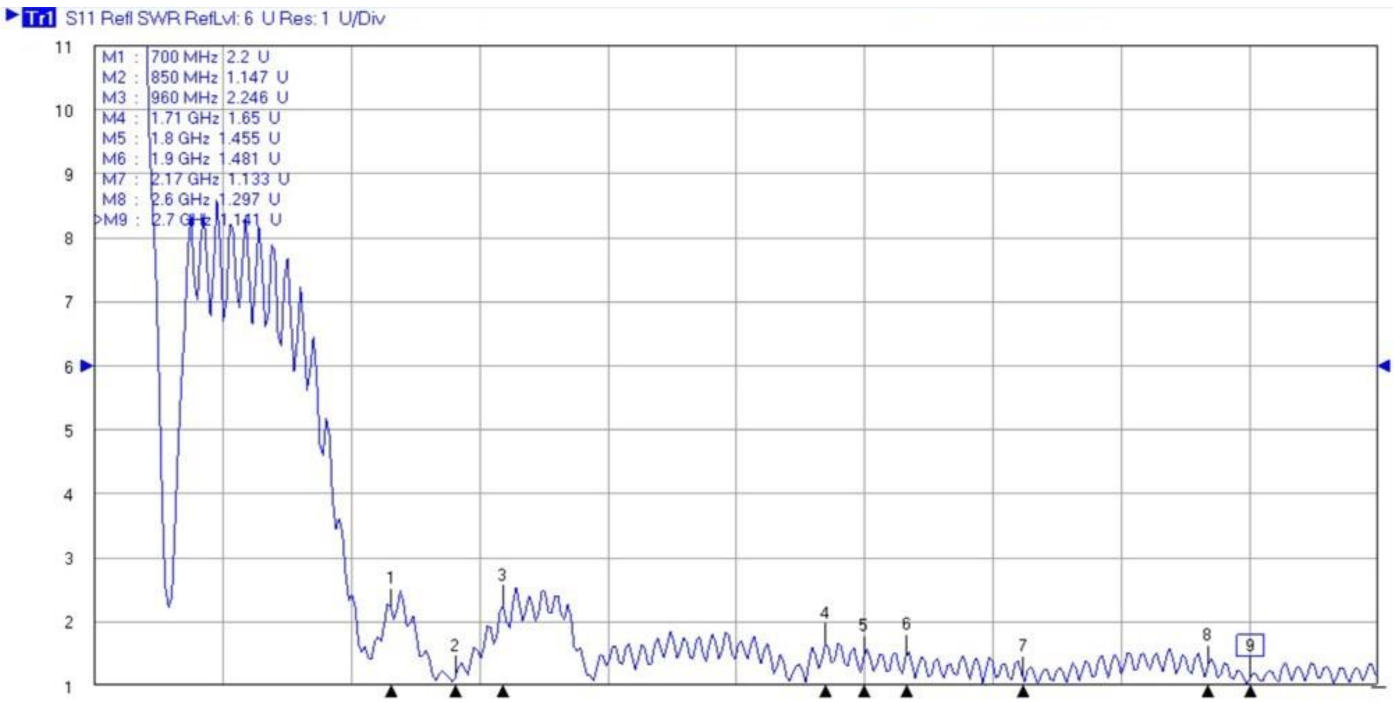
1. *Chinmore's* No: AA-C01M89FME-1072
2. Frequency: 690~960/1710~2170/2300~2700 MHz
3. VSWR: 2.2:1
4. Gain: 4 dBi
5. Cable: MR195 3M
6. Connector: FME F
7. Polarization: Vertical

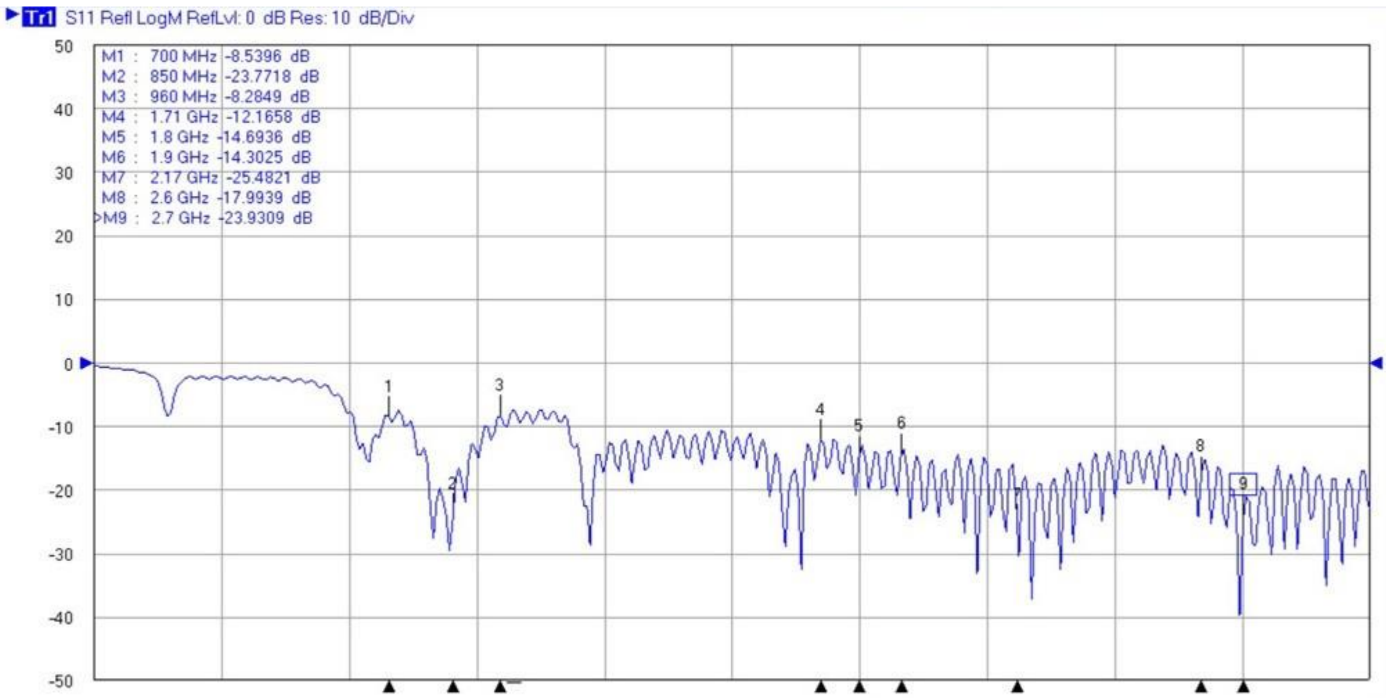
※RoHS Compliant



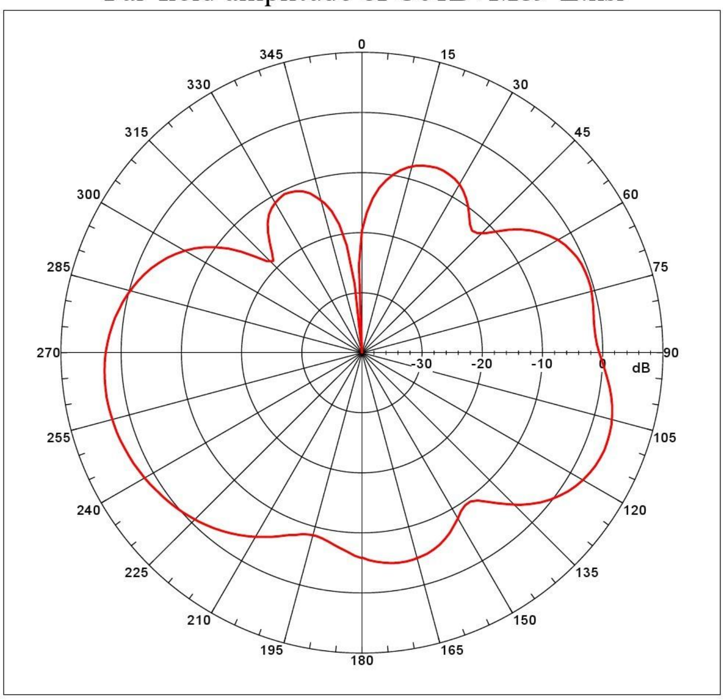
Test Data (Return Loss & VSWR)

Frequency (MHz)	Return Loss (dB)	VSWR
700	-8.53	2.2
850	-23.77	1.14
960	-8.28	2.24
1710	-12.16	1.65
1800	-14.69	1.45
1900	-14.30	1.48
2170	-25.48	1.13
2600	-17.99	1.29
2700	-23.93	1.14





Far-field amplitude of C01B+M89-E.nsi



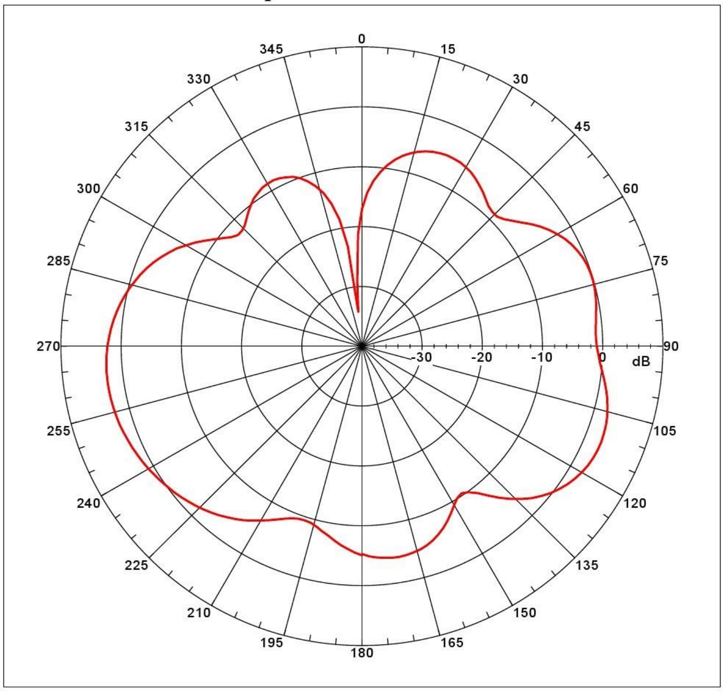

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.39341  dBi
Max far-field (global) = -39.35486  dB, Max far-field (plot) =
-39.35487  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 111.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.226 dB
   -3. dB beam width: 32.71 deg
   -6. dB beam width: 73.23 deg
   -10. dB beam width: 86.84 deg
   Left Sidelobe: -10.20 dB at 23.129  deg
   Right Sidelobe: -7.85 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
1       0.806  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



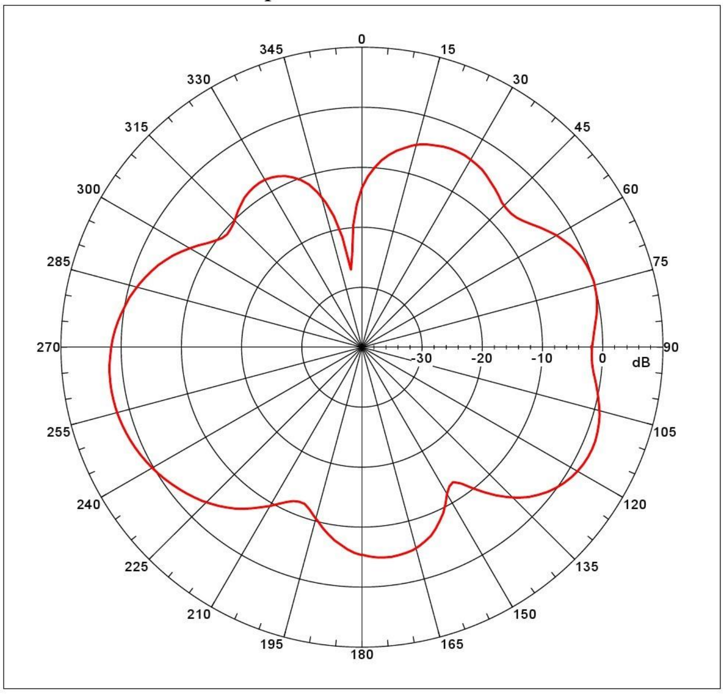

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.84792  dBi
Max far-field (global) = -39.29915  dB, Max far-field (plot) =
-39.2992  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 111.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.278 dB
   -3. dB beam width: 33.26 deg
   -6. dB beam width: 75.75 deg
   -10. dB beam width: 89.57 deg
   Left Sidelobe: -2.92 dB at 75.419  deg
   Right Sidelobe: -7.11 dB at 171.955  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
2       0.824  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



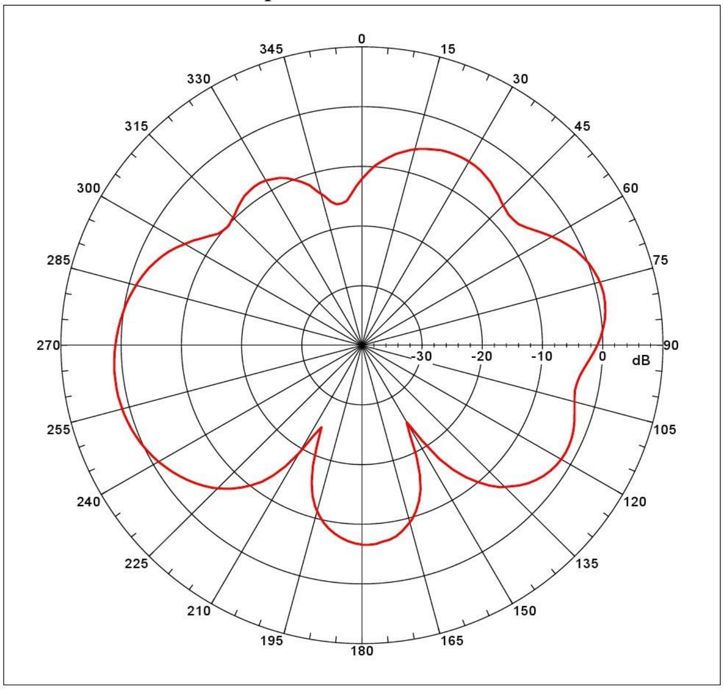

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.22908  dBi
Max far-field (global) = -39.30399  dB, Max far-field (plot) =
-39.30403  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -100.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.727 dB
   -3. dB beam width: 47.97 deg
   -6. dB beam width: 68.96 deg
   -10. dB beam width: 88.34 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -9.99 dB at -31.173  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
3       0.850  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



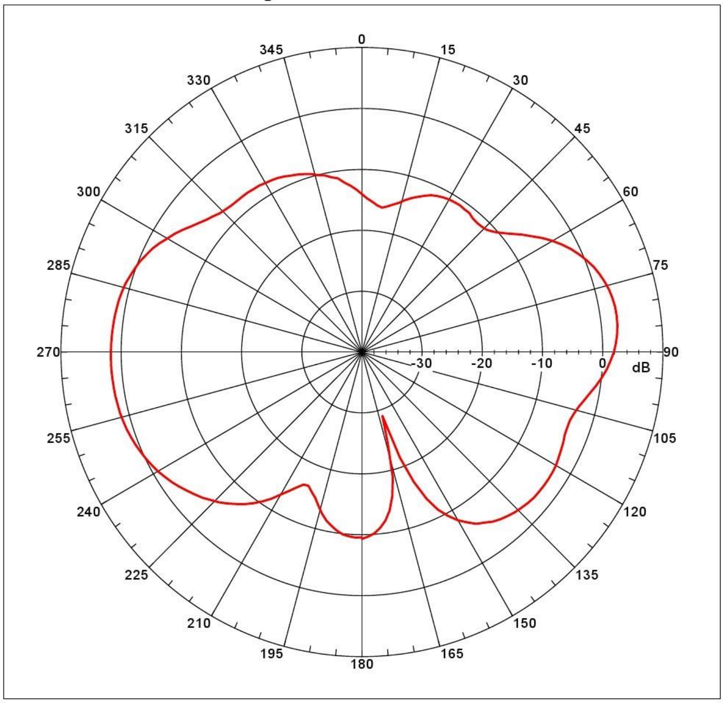

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.39247  dBi
Max far-field (global) = -40.16721  dB, Max far-field (plot) =
-40.16724  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -100.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.892 dB
   -3. dB beam width: 49.73 deg
   -6. dB beam width: 68.79 deg
   -10. dB beam width: 85.53 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -9.34 dB at -33.184  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
4       0.900  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



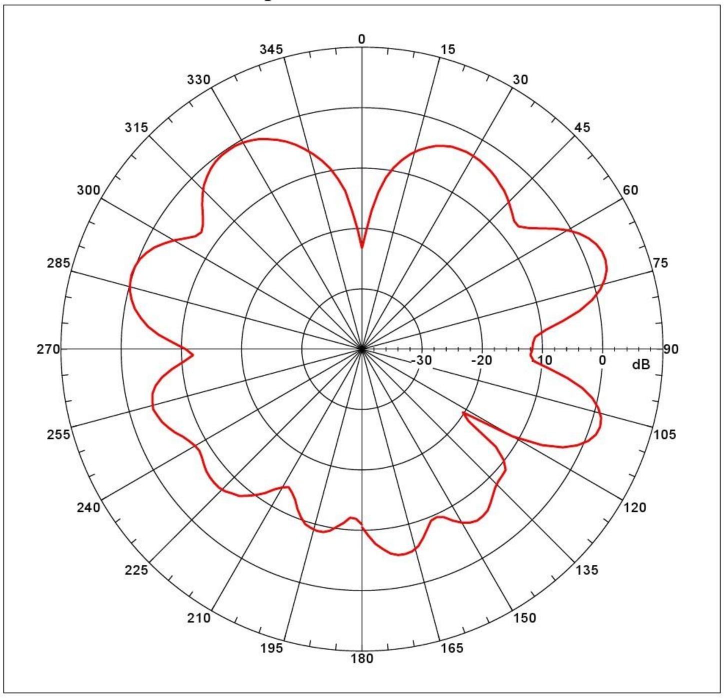

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.72164  dBi
Max far-field (global) = -39.90803  dB, Max far-field (plot) =
-39.90804  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 81.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.491 dB
   -3. dB beam width: 30.39 deg
   -6. dB beam width: 45.51 deg
   -10. dB beam width: 95.10 deg
   Left Sidelobe: -1.04 dB at -89.497  deg
   Right Sidelobe: -5.37 dB at 125.698  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
5       0.960  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



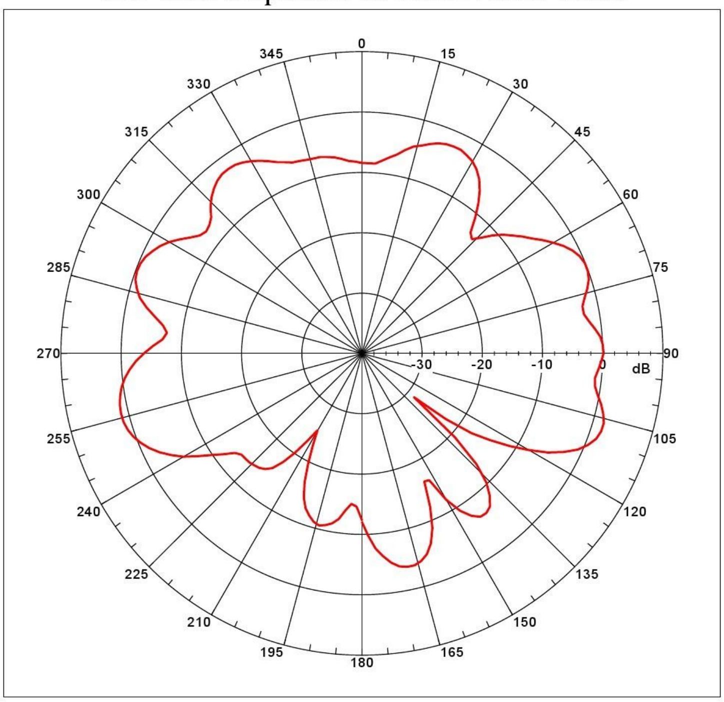

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.05238  dBi
Max far-field (global) = -42.14021  dB, Max far-field (plot) =
-42.14035  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 67.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.103 dB
   -3. dB beam width: 16.02 deg
   -6. dB beam width: 22.50 deg
   -10. dB beam width: 30.57 deg
   Left Sidelobe: -6.10 dB at 29.162  deg
   Right Sidelobe: -1.45 dB at 109.609  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
6       1.710  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



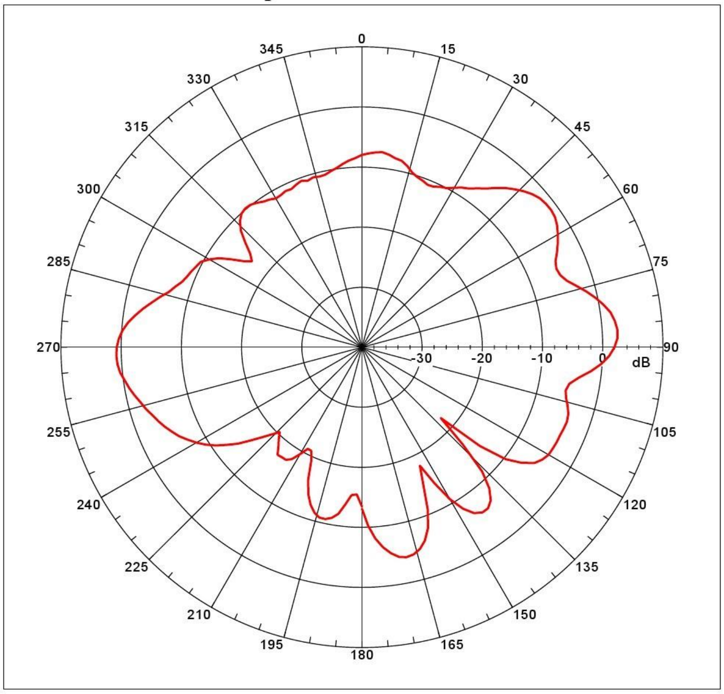

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.78604  dBi
Max far-field (global) = -45.036  dB, Max far-field (plot) =
-45.03601  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 107.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.016 dB
   -3. dB beam width: 30.92 deg
   -6. dB beam width: 59.00 deg
   -10. dB beam width: 68.45 deg
   Left Sidelobe: -1.65 dB at 91.508  deg
   Right Sidelobe: -8.24 dB at 143.799  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
7       1.800  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



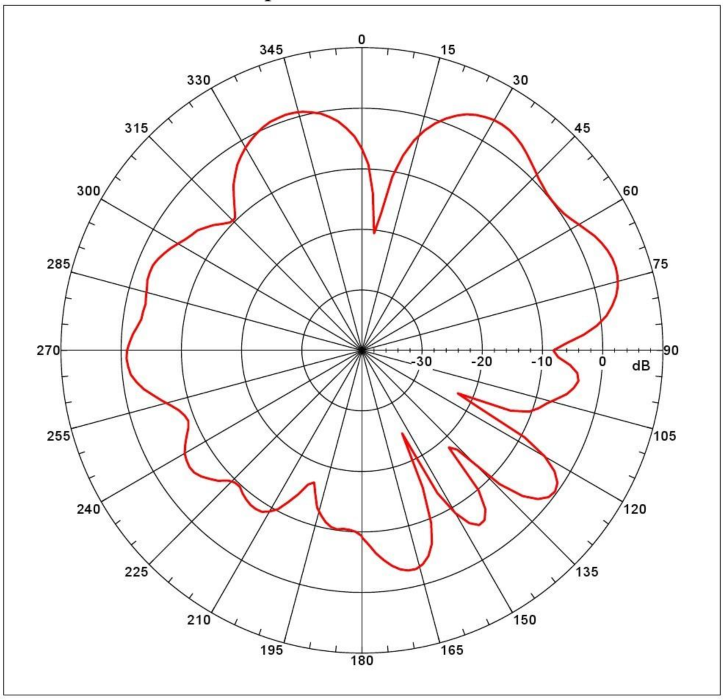

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.51169  dBi
Max far-field (global) = -44.52527  dB, Max far-field (plot) =
-44.52539  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 85.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.489 dB
   -3. dB beam width: 16.73 deg
   -6. dB beam width: 24.85 deg
   -10. dB beam width: 91.11 deg
   Left Sidelobe: -3.66 dB at 55.307  deg
   Right Sidelobe: -6.27 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
8       1.900  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



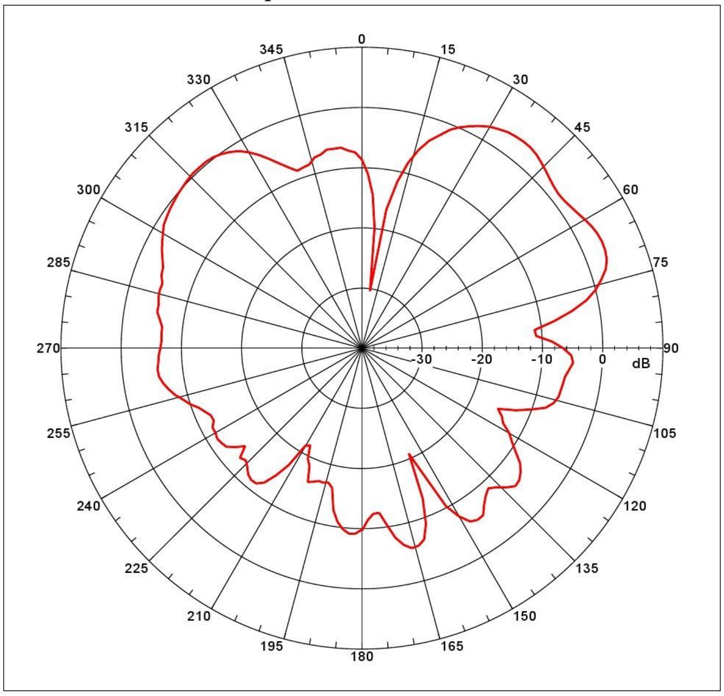

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 4.32548  dBi
Max far-field (global) = -43.20663  dB, Max far-field (plot) =
-43.20665  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 72.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.370 dB
   -3. dB beam width: 22.37 deg
   -6. dB beam width: 68.54 deg
   -10. dB beam width: 75.17 deg
   Left Sidelobe: -0.37 dB at 33.184  deg
   Right Sidelobe: -8.01 dB at 99.553  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
9       2.170  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



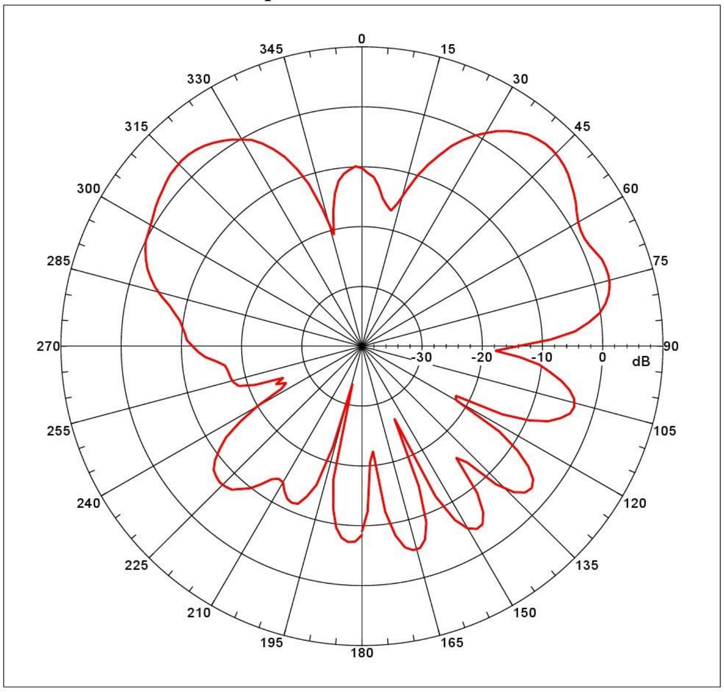

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.62173  dBi
Max far-field (global) = -46.51426  dB, Max far-field (plot) =
-46.5143  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 66.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.891 dB
   -3. dB beam width: 50.30 deg
   -6. dB beam width: 58.68 deg
   -10. dB beam width: 66.02 deg
   Left Sidelobe: -0.06 dB at 39.218  deg
   Right Sidelobe: -8.46 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
10      2.500  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-E.nsi



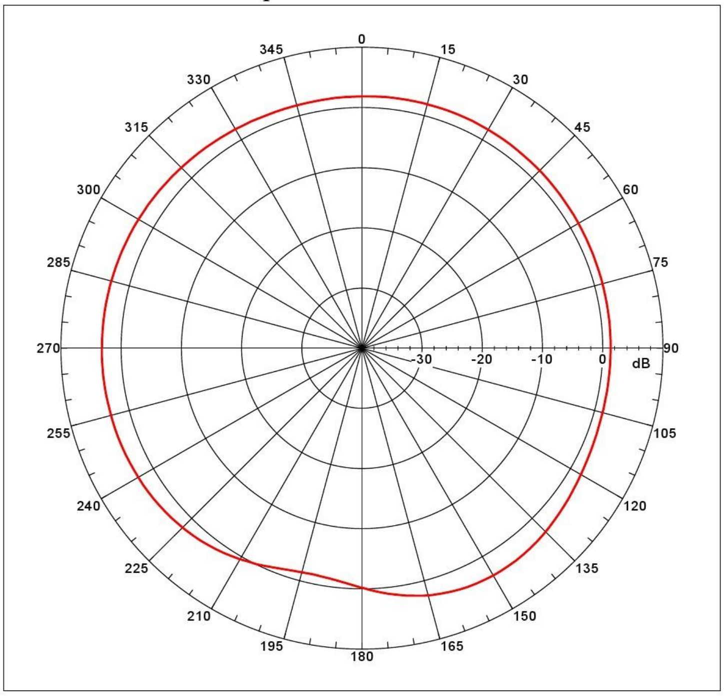

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 5.55173  dBi
Max far-field (global) = -44.76506  dB, Max far-field (plot) =
-44.76508  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 43.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-E.nsi
Measurement date/time: 5/18/2016 4:30:08 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.446 dB
   -3. dB beam width: 24.53 deg
   -6. dB beam width: 55.02 deg
   -10. dB beam width: 63.26 deg
   Left Sidelobe: -15.49 dB at -1.006  deg
   Right Sidelobe: -2.93 dB at 75.419  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
11      2.600  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



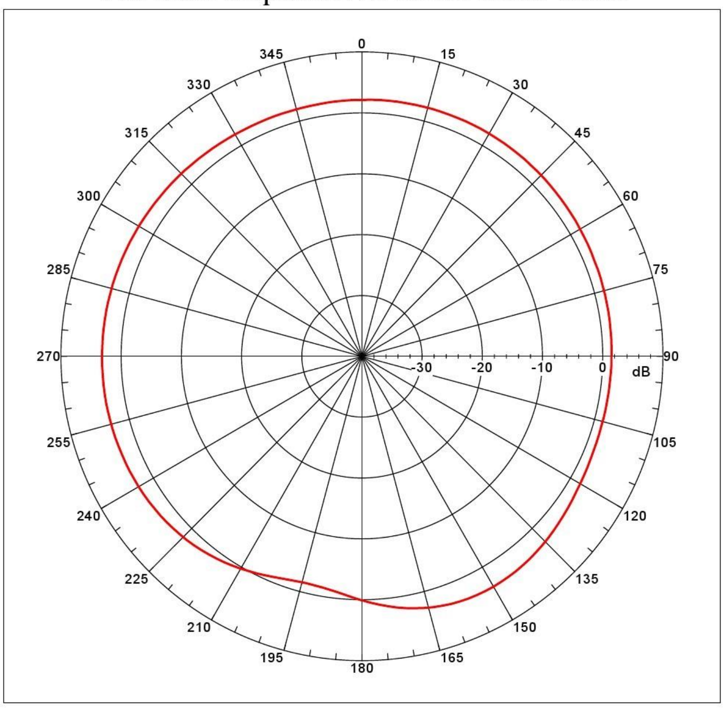

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.63164  dBi
Max far-field (global) = -39.11663  dB, Max far-field (plot) =
-39.11665  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 148.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 2.007 dB
   -3. dB beam width: 326.61 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.45 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
1       0.806  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



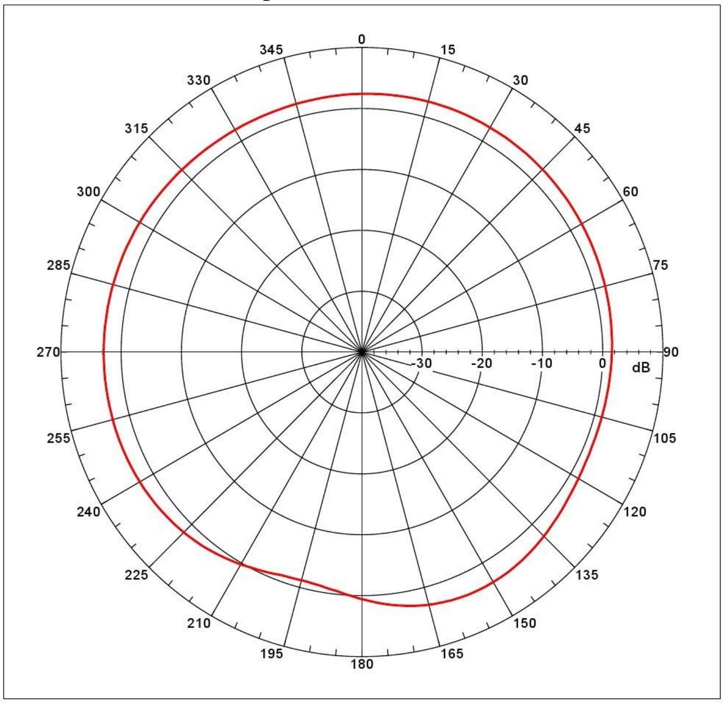

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.70051  dBi
Max far-field (global) = -38.44656  dB, Max far-field (plot) =
-38.44658  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 150.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 2.090 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.54 dB at -89.497  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
2       0.824  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



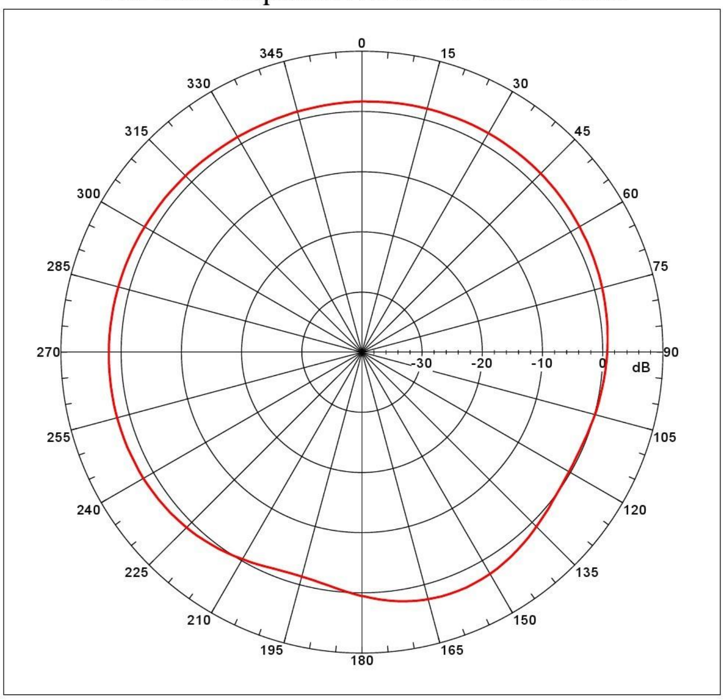

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.63881  dBi
Max far-field (global) = -37.89426  dB, Max far-field (plot) =
-37.89427  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 151.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 2.103 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -1.10 dB at 35.196  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
3       0.850  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



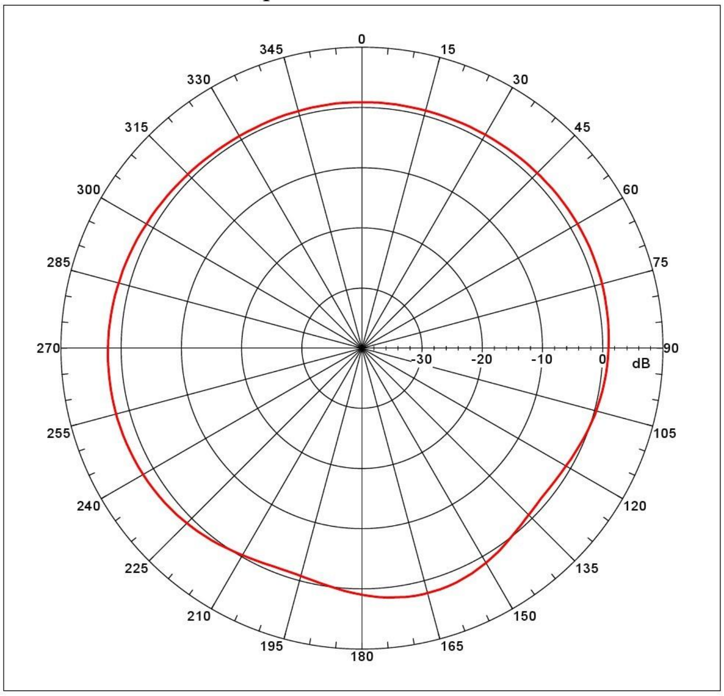

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.77256  dBi
Max far-field (global) = -38.78712  dB, Max far-field (plot) =
-38.78719  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 155.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 1.323 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.76 dB at 41.229  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
4       0.900  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



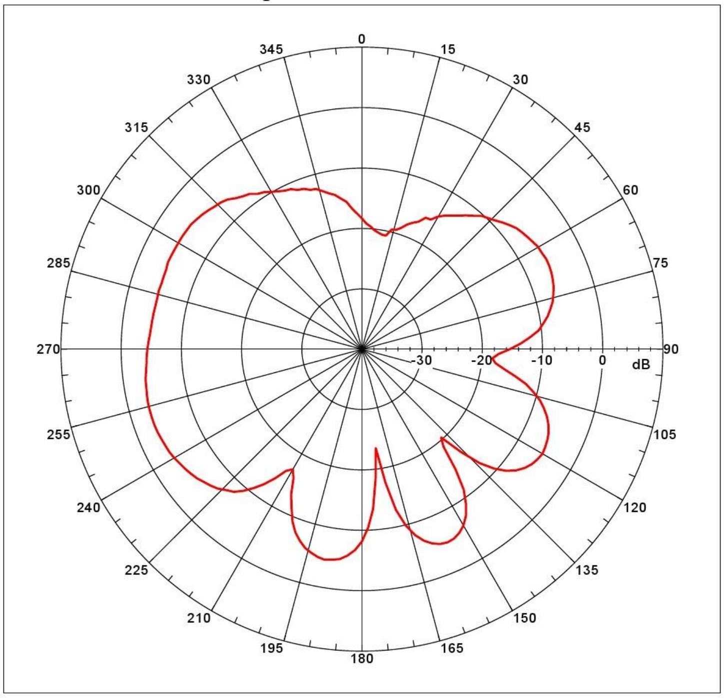

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.26958  dBi
Max far-field (global) = -40.36009  dB, Max far-field (plot) =
-40.3601  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -102.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 0.969 dB
   -3. dB beam width: 275.57 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: Not Found
   Right Sidelobe: -0.14 dB at 165.922  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
5       0.960  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



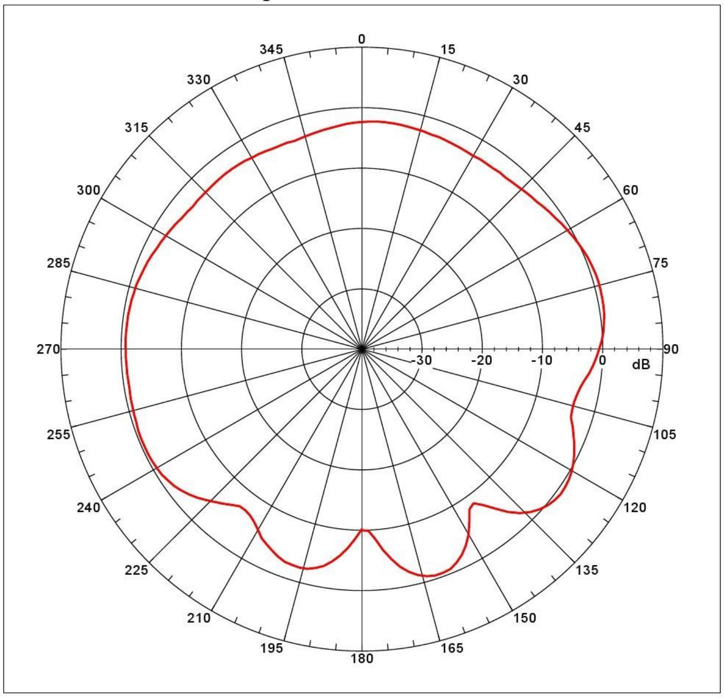

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.31694  dBi
Max far-field (global) = -48.50953  dB, Max far-field (plot) =
-48.50954  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -110.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.254 dB
   -3. dB beam width: 89.22 deg
   -6. dB beam width: 108.29 deg
   -10. dB beam width: 132.69 deg
   Left Sidelobe: -1.26 dB at -169.944  deg
   Right Sidelobe: -2.65 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
6       1.710  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



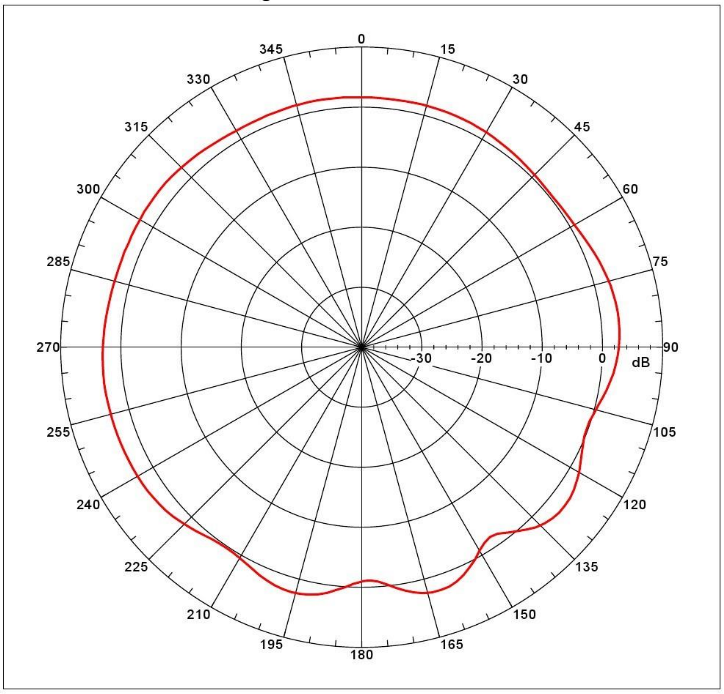

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.82727  dBi
Max far-field (global) = -45.99477  dB, Max far-field (plot) =
-45.99485  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 126.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -2.237 dB
   -3. dB beam width: 24.22 deg
   -6. dB beam width: 278.10 deg
   -10. dB beam width: Not Found
   Left Sidelobe: 0.00 dB at 75.419  deg
   Right Sidelobe: -1.41 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
7       1.800  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



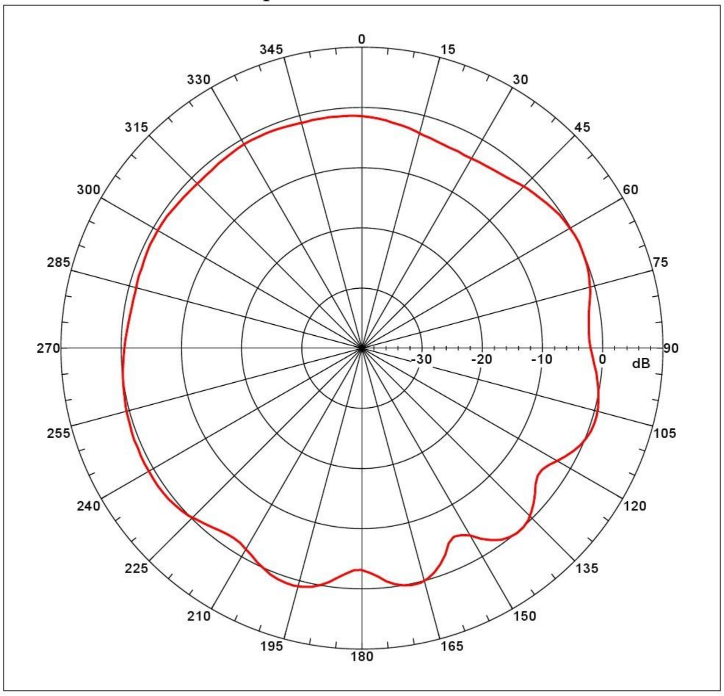

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 3.18583  dBi
Max far-field (global) = -43.85113  dB, Max far-field (plot) =
-43.85117  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -98.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 1.734 dB
   -3. dB beam width: 282.88 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.75 dB at -163.911  deg
   Right Sidelobe: -0.26 dB at 85.475  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
8       1.900  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



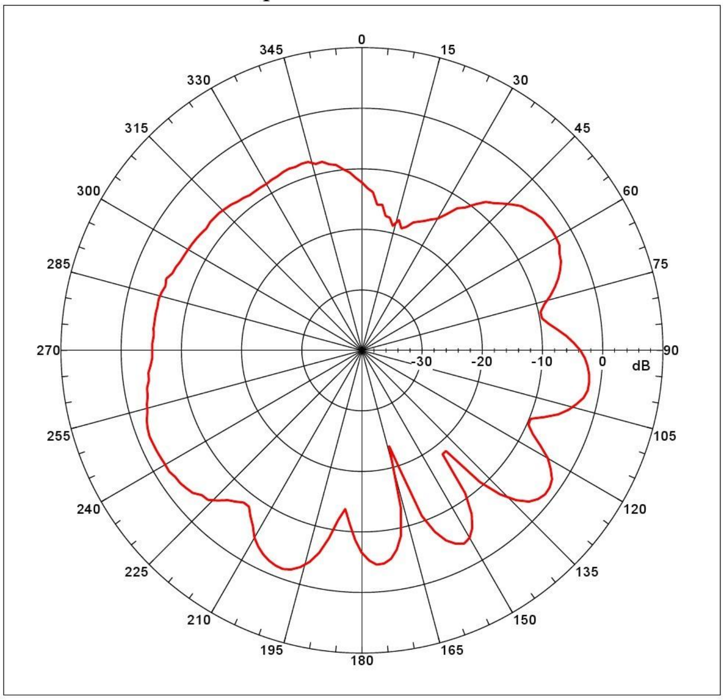

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.05768  dBi
Max far-field (global) = -46.47443  dB, Max far-field (plot) =
-46.47449  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -164.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -1.059 dB
   -3. dB beam width: 28.49 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: Not Found
   Right Sidelobe: -0.15 dB at -123.687  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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
9       2.170  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi



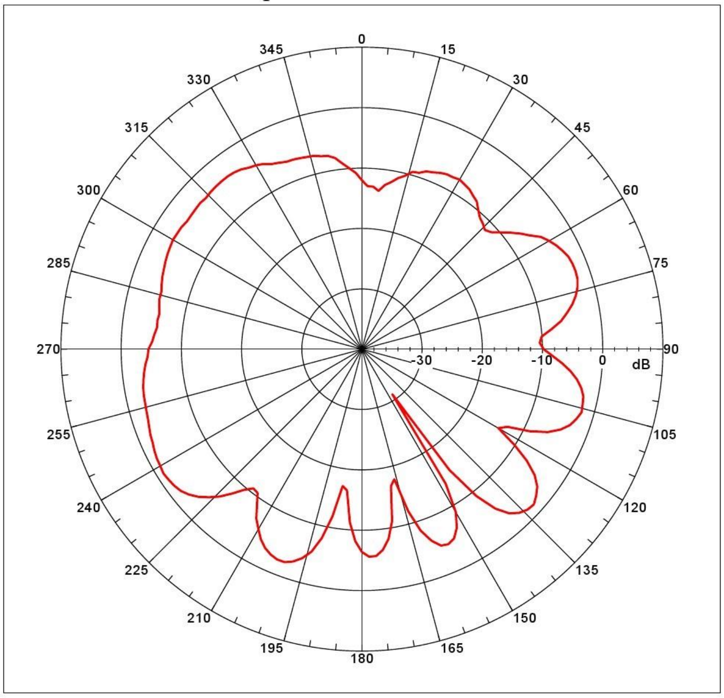

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.36968  dBi
Max far-field (global) = -51.50567  dB, Max far-field (plot) =
-51.50584  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 128.000  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.161 dB
   -3. dB beam width: 14.10 deg
   -6. dB beam width: 19.28 deg
   -10. dB beam width: 103.95 deg
   Left Sidelobe: -0.51 dB at 99.553  deg
   Right Sidelobe: -2.50 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
10      2.500  GHz  Azimuth  Elevation  Single-pol
```

Far-field amplitude of C01B+M89-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.13365  dBi
Max far-field (global) = -51.45044  dB, Max far-field (plot) =
-51.45057  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -122.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

C01B+M89-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\C0
1B+M89\C01B+M89-H.nsi
Measurement date/time: 5/18/2016 4:11:38 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.745 dB
   -3. dB beam width: 40.14 deg
   -6. dB beam width: 124.66 deg
   -10. dB beam width: 169.08 deg
   Left Sidelobe: -1.31 dB at -157.877  deg
   Right Sidelobe: -2.63 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 11
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
11      2.600  GHz  Azimuth  Elevation  Single-pol
```