



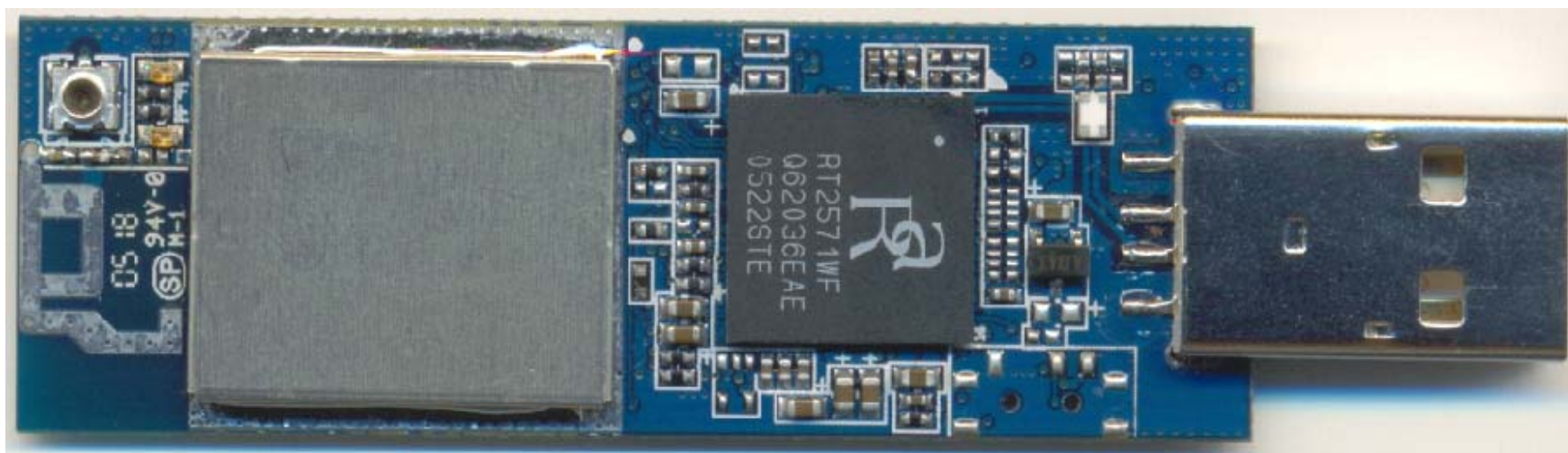
Ralink's Printed Antenna Report for USB New-Type PIFA Antenna

2.4GHz ISM Band Working Frequency

Editor: *Jin Luo*
Data: 30/06/2005

- The Construction of New –Type PIFA Antenna on Ralink's USB Board

(TOP View)

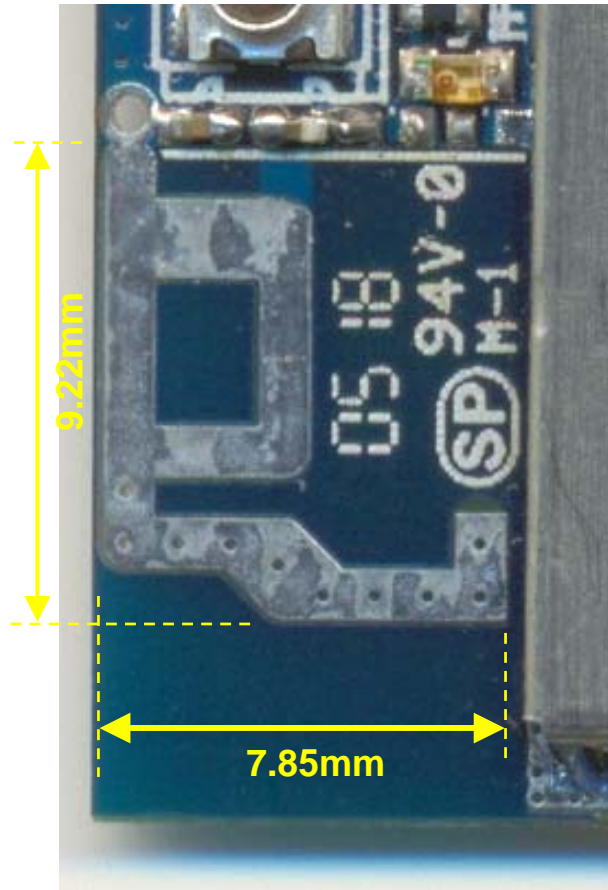


- The Construction of New –Type PIFA Antenna on Ralink's USB Board

(Bottom View)

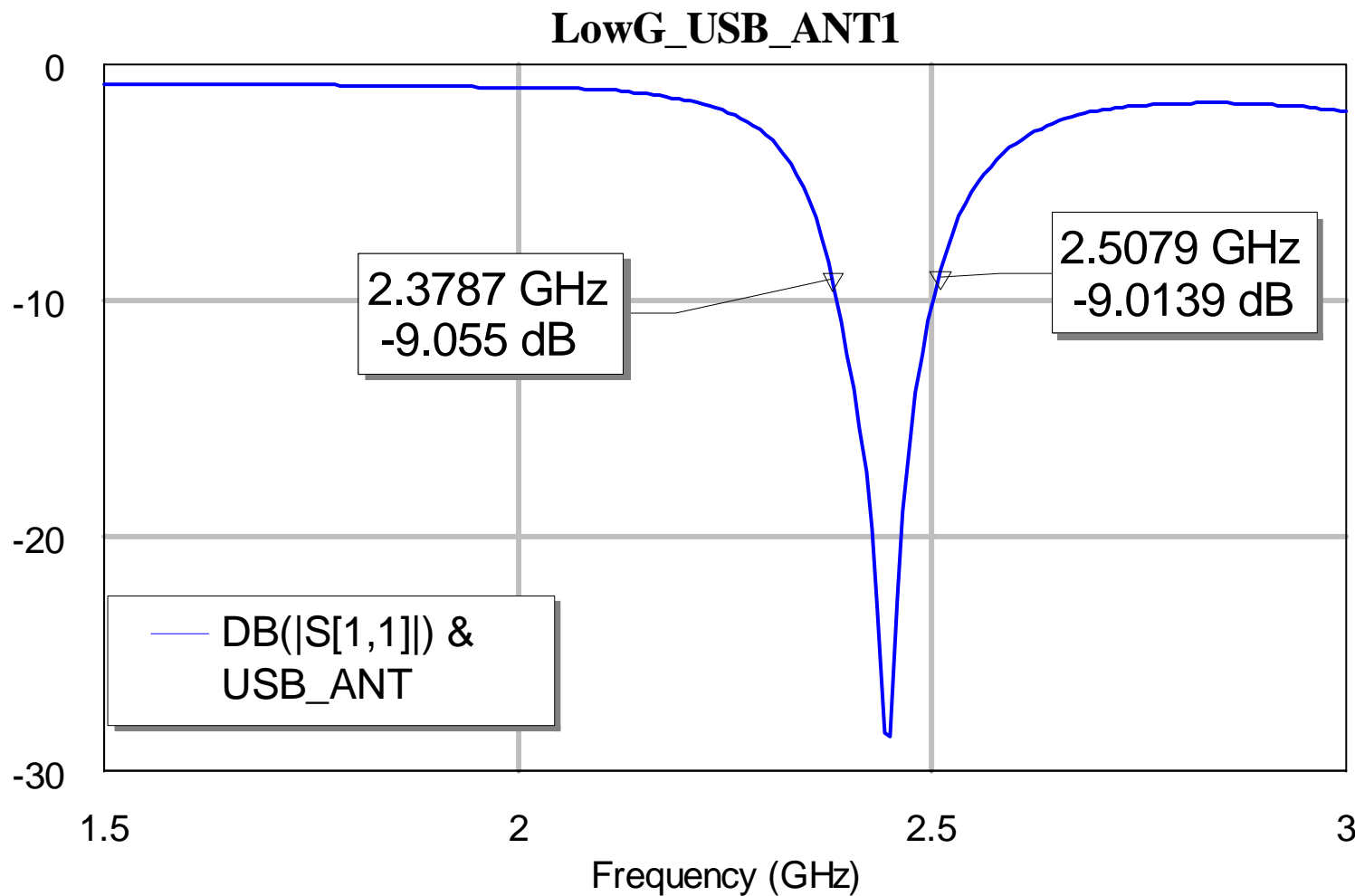


- The Construction of New –Type PIFA Antenna on Ralink's USB Board

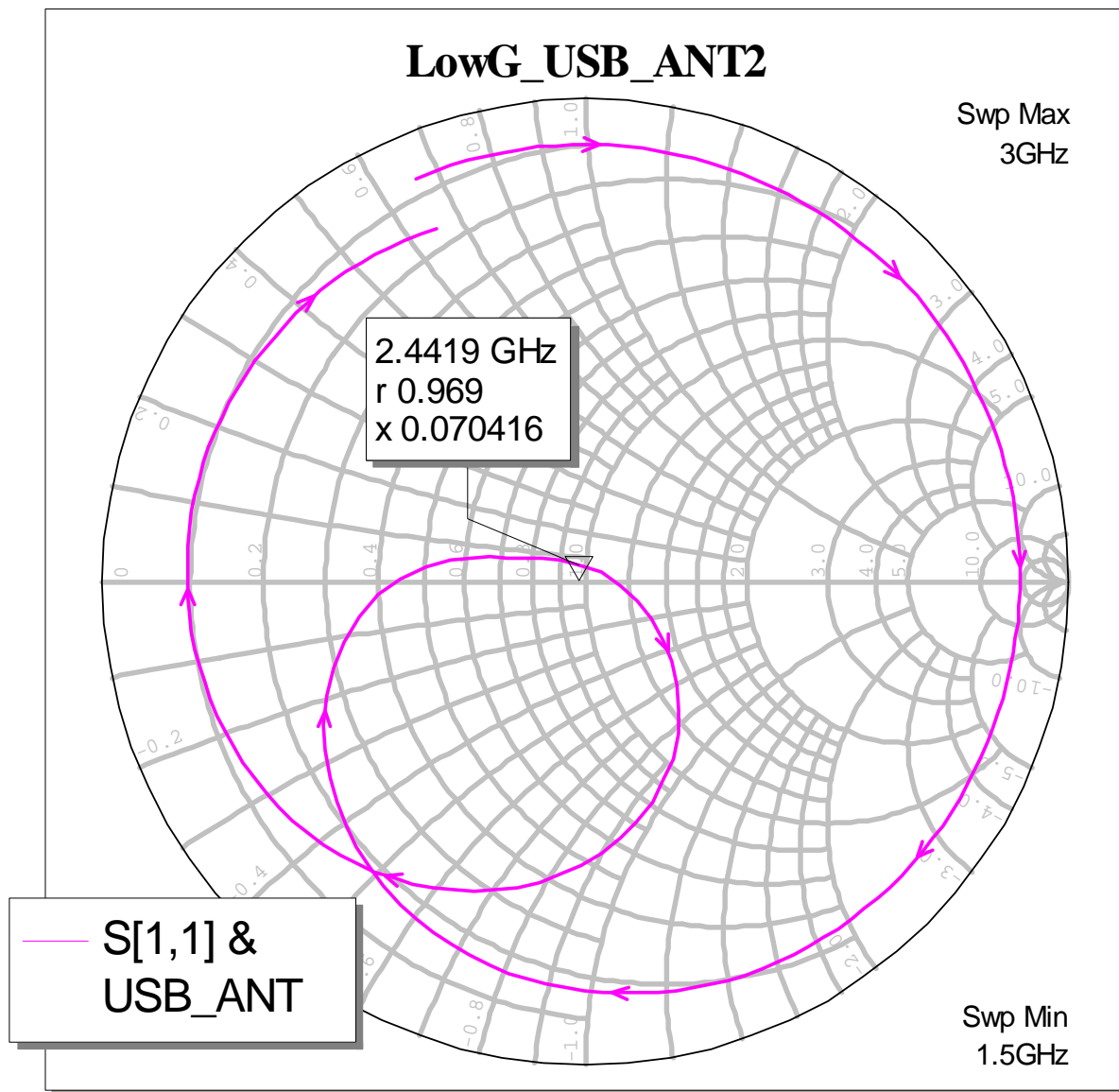


Square Measure: 9.22mm * 7.85mm

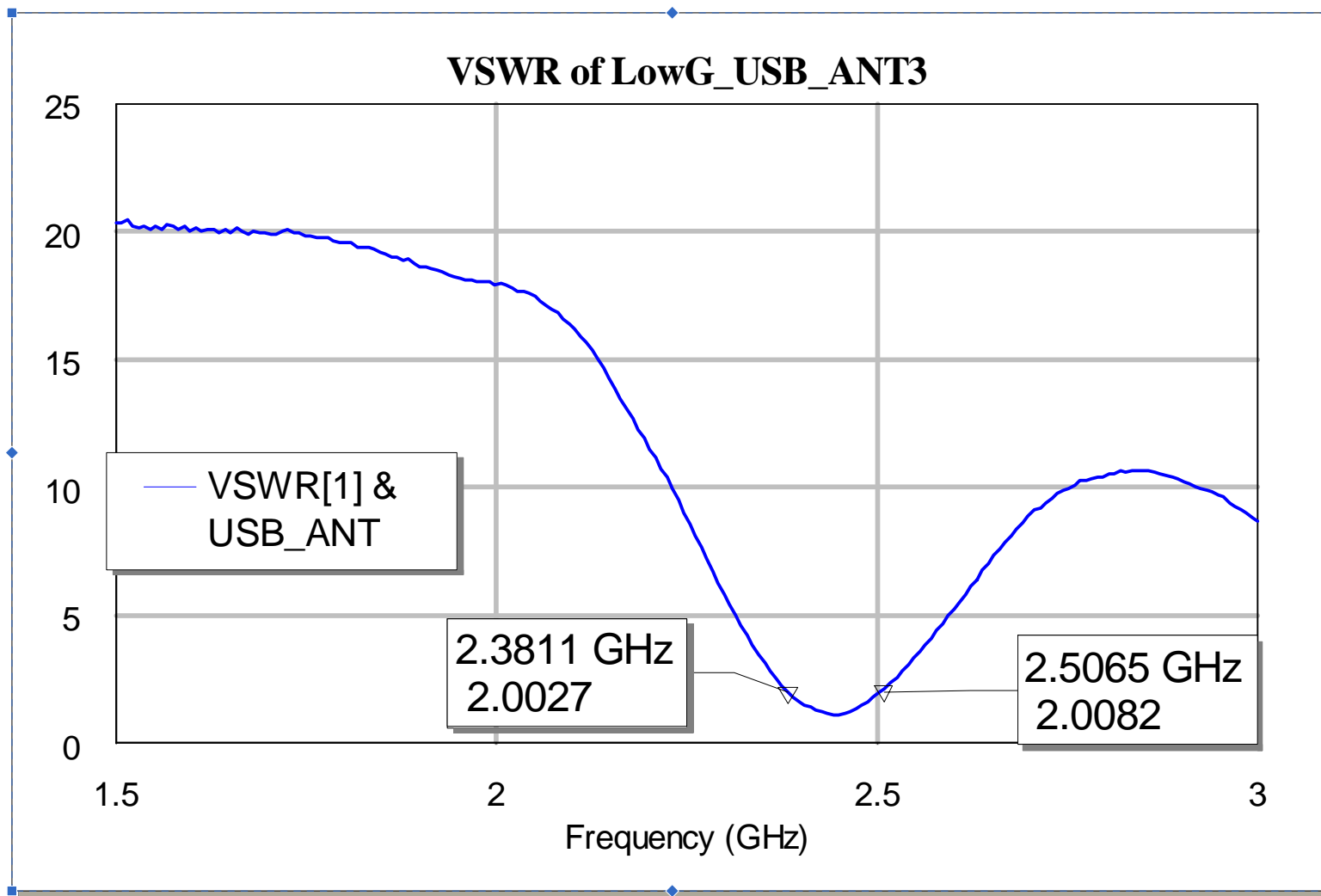
- New-Type PIFA Antenna S11 on Ralink's USB Board



- New-Type PIFA Antenna S11 on Ralink's USB Board

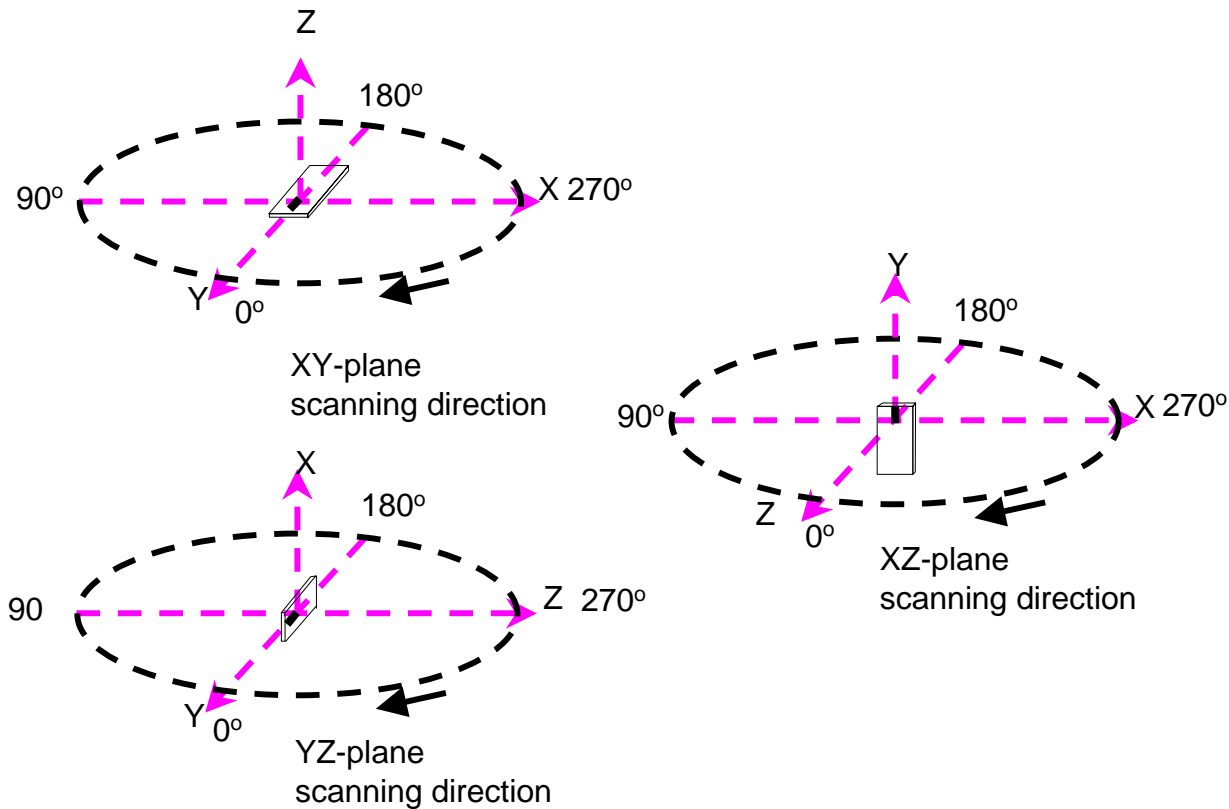


• New-Type PIFA Antenna S11 on Ralink's USB Board



**BW: 122.4MHz @VSWR<=2 (2381.1MHz~2506.5MHz)
(5.0%BW @Center Frequency:2450MHz)**

• New-Type PIFA Antenna Scanning Direction



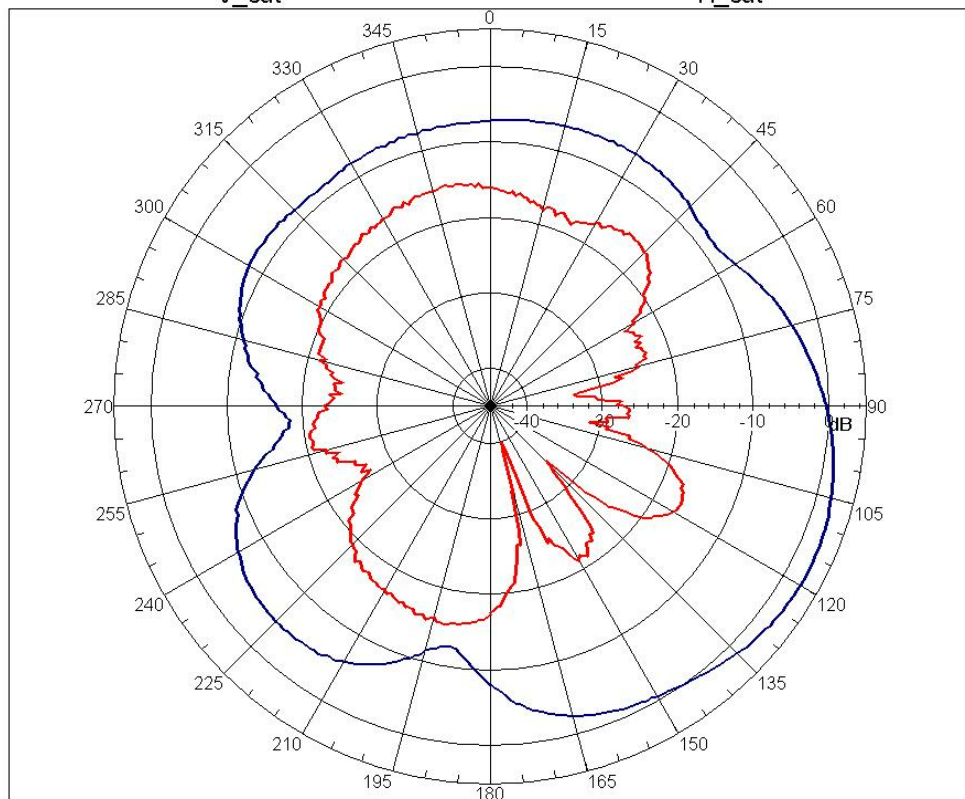
• New-Type PIFA Antenna Radiation Pattern at 2400MHz

1. XY-Plane

Far-field amplitude of XY_plane.nsi

V_cut

H_cut



	Peak	Average
Vertical	-15.22	-18.95
Horizontal	1.93	-3.75

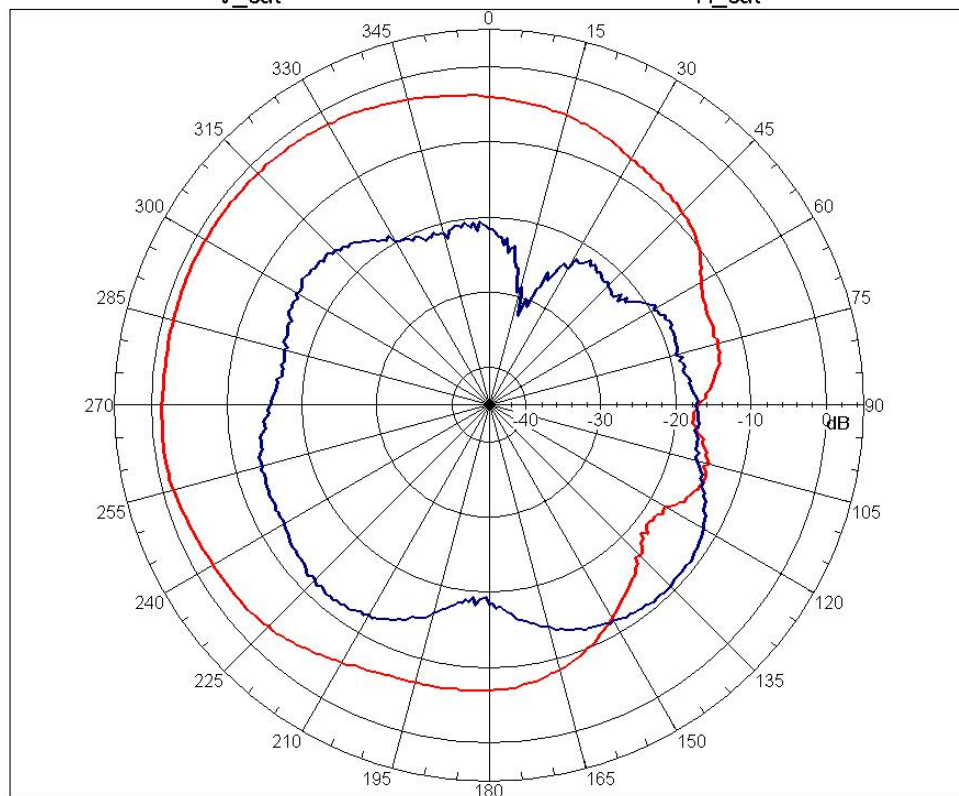
• New-Type PIFA Antenna Radiation Pattern at 2400MHz

2. XZ-Plane

Far-field amplitude of XZ_plane.nsi

V_cut

H_cut

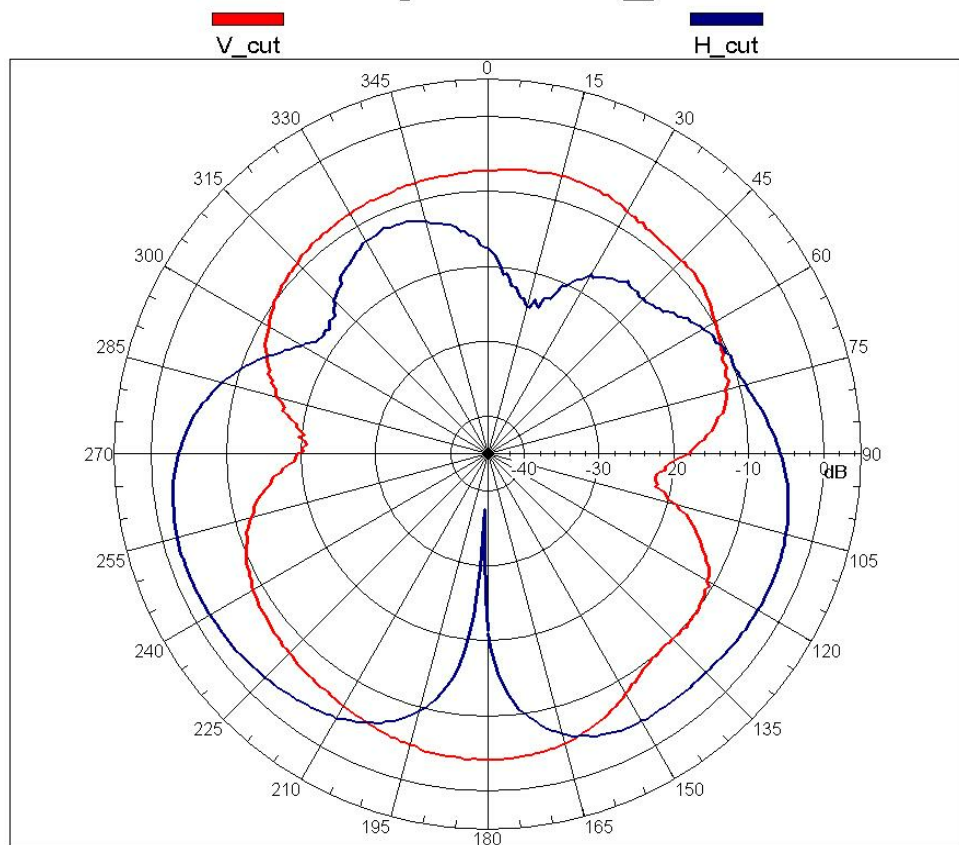


	Peak	Average
Vertical	-1.19	-4.85
Horizontal	-10.94	-15.43

• New-Type PIFA Antenna Radiation Pattern at 2400MHz

3. YZ-Plane

Far-field amplitude of YZ_plane.nsi



	Peak	Average
Vertical	-4.23	-8.46
Horizontal	-1.91	-6.51

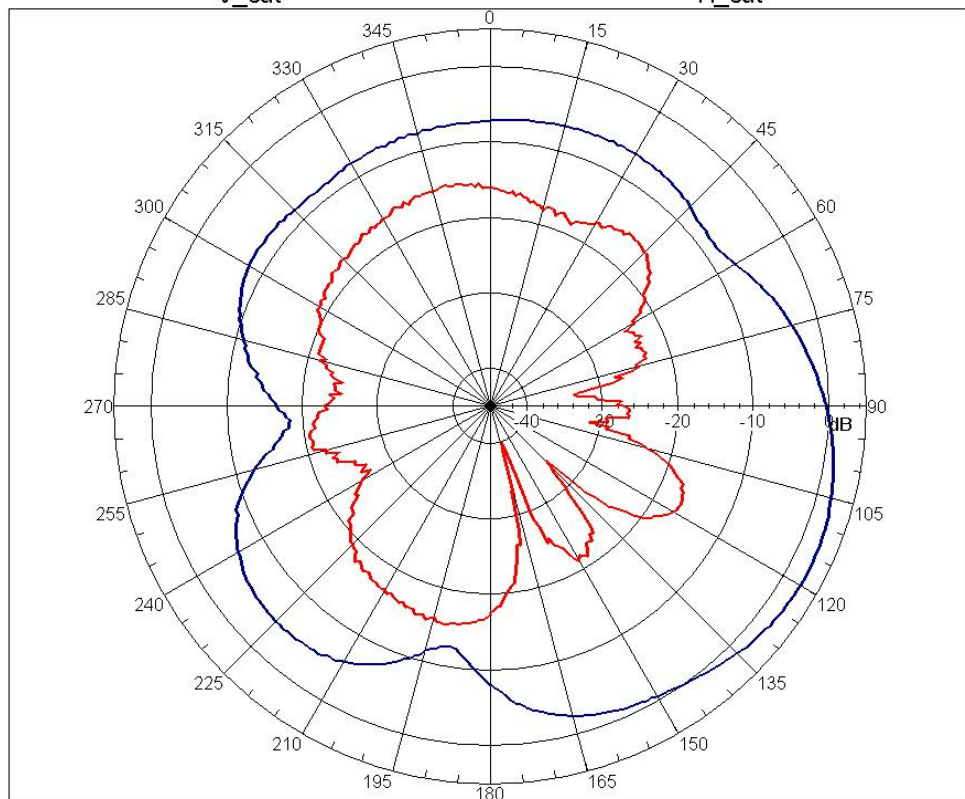
• New-Type PIFA Antenna Radiation Pattern at 2450MHz

1. XY-Plane

Far-field amplitude of XY_plane.nsi

V_cut

H_cut

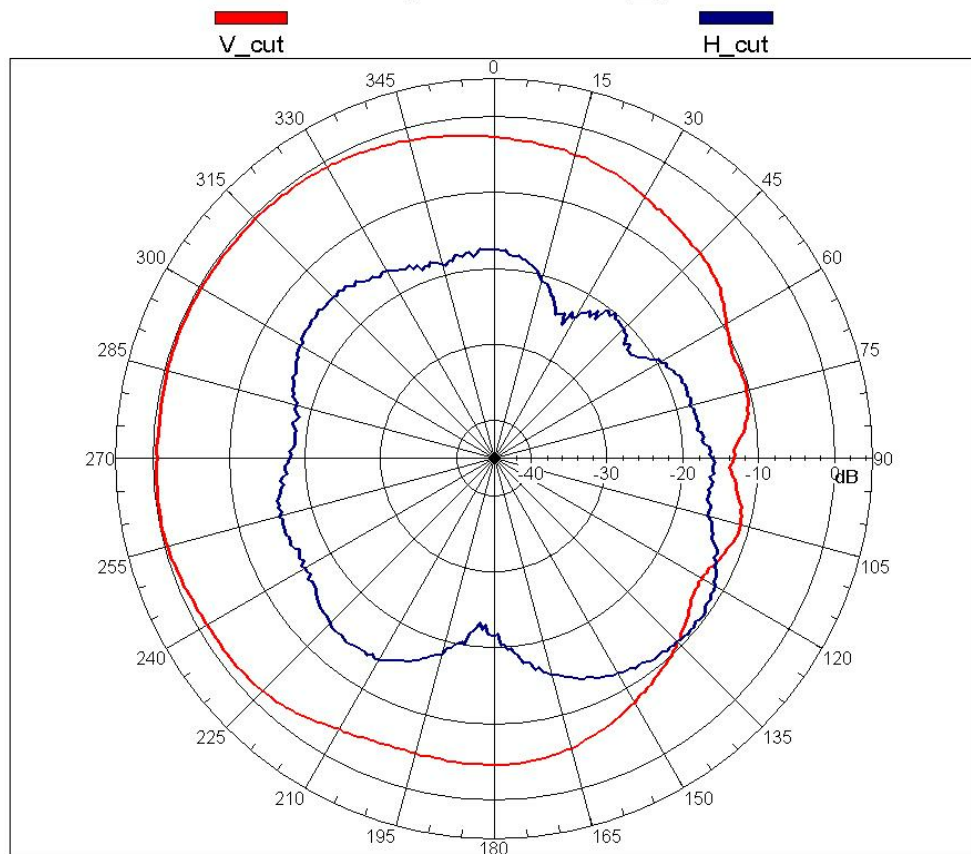


	Peak	Average
Vertical	-14.68	-17.83
Horizontal	2.00	-3.70

• New-Type PIFA Antenna Radiation Pattern at 2450MHz

2. XZ-Plane

Far-field amplitude of XZ_plane.nsi

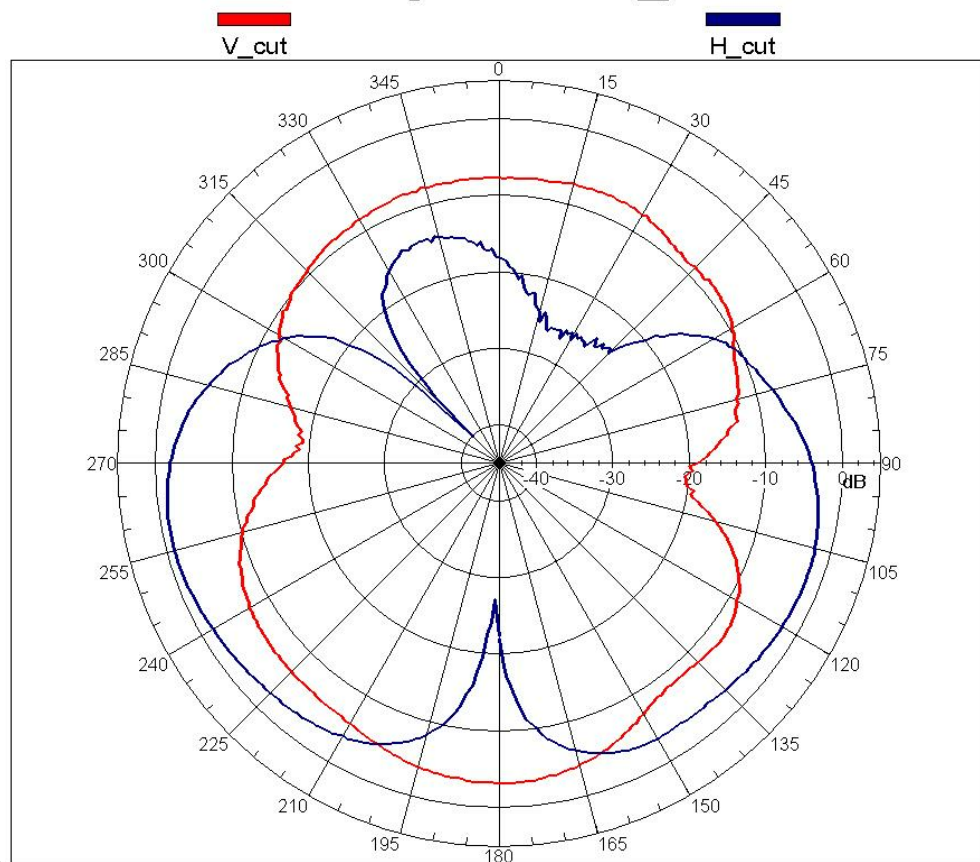


	Peak	Average
Vertical	-0.24	-3.46
Horizontal	-10.59	-15.90

• New-Type PIFA Antenna Radiation Pattern at 2450MHz

3. YZ-Plane

Far-field amplitude of YZ_plane.nsi



	Peak	Average
Vertical	-3.27	-7.94
Horizontal	-1.03	-5.67

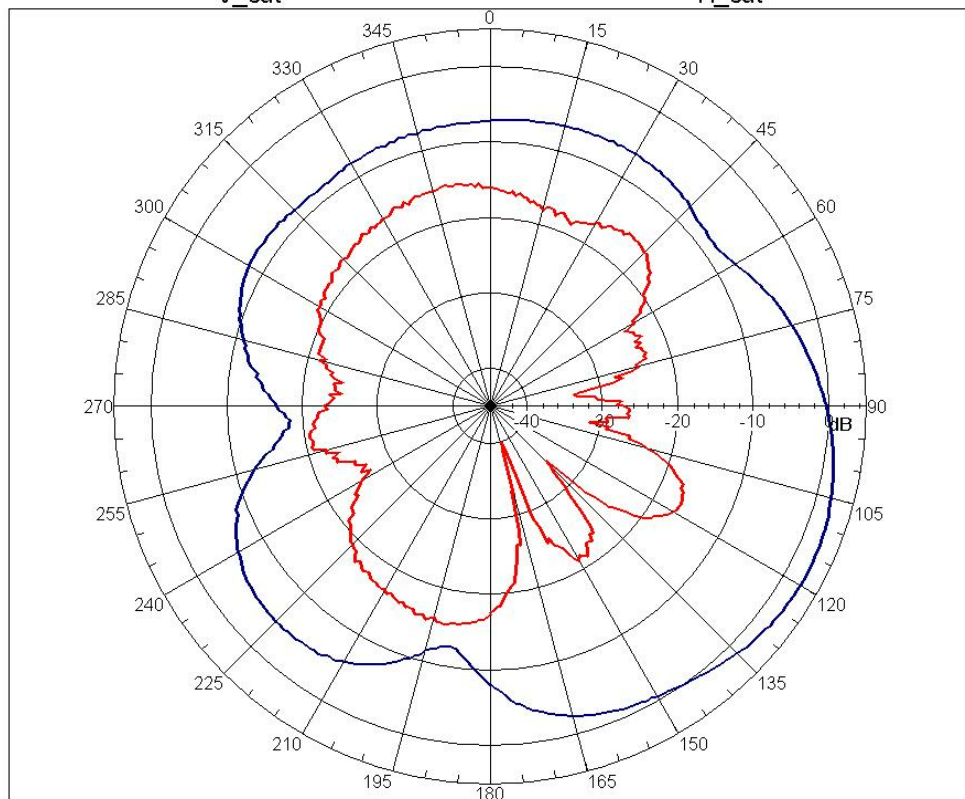
• New-Type PIFA Antenna Radiation Pattern at 2500MHz

1. XY-Plane

Far-field amplitude of XY_plane.nsi

V_cut

H_cut



	Peak	Average
Vertical	-15.23	-20.26
Horizontal	1.99	-3.31

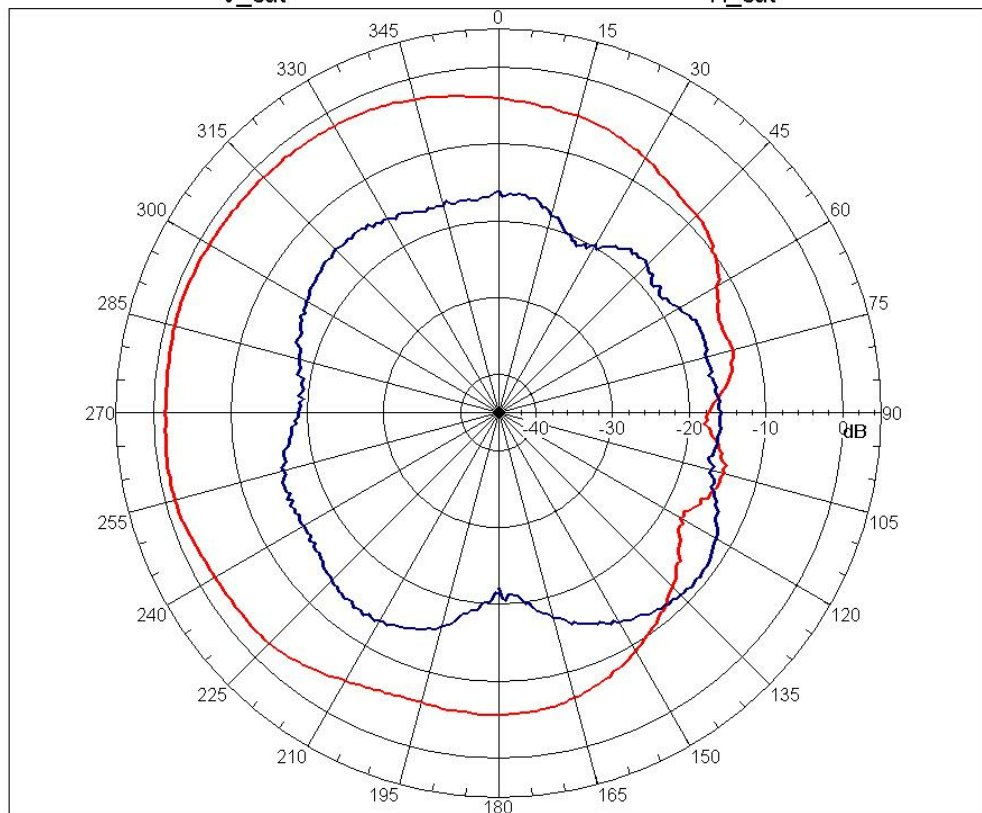
• New-Type PIFA Antenna Radiation Pattern at 2500MHz

2. XZ-Plane

Far-field amplitude of XZ_plane.nsi

V_cut

H_cut

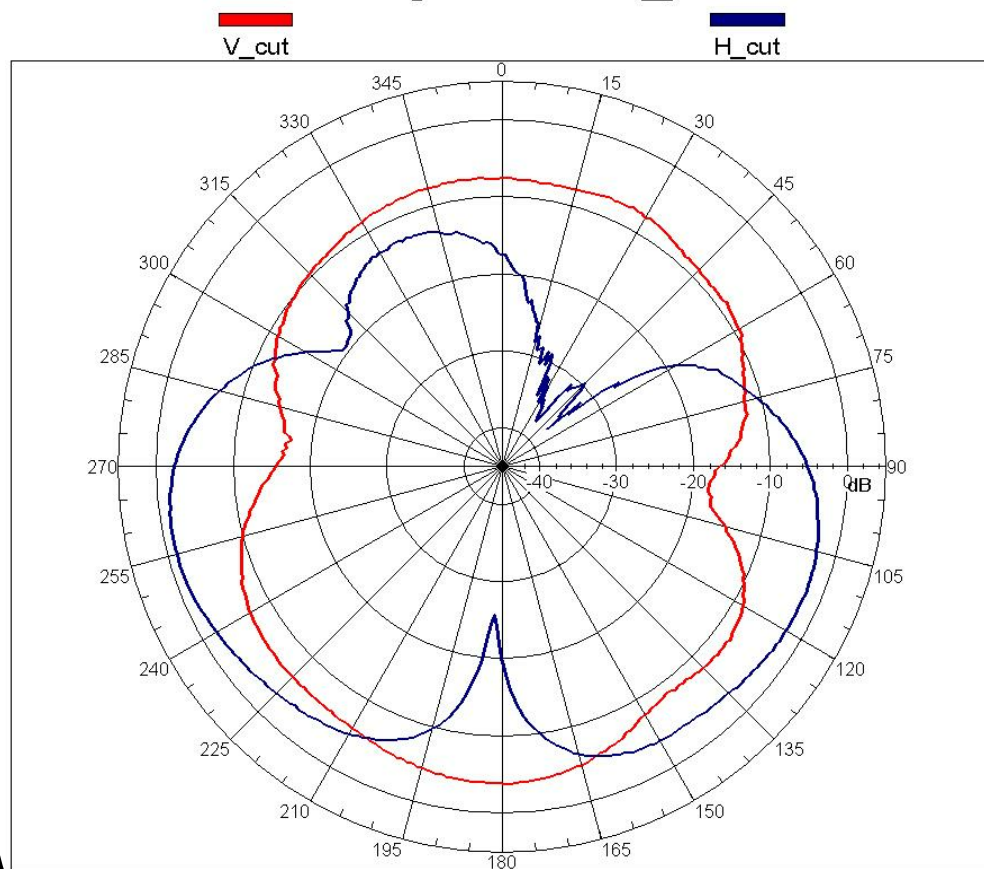


	Peak	Average
Vertical	-1.16	-4.60
Horizontal	-11.19	-15.81

• New-Type PIFA Antenna Radiation Pattern at 2500MHz

3. YZ-Plane

Far-field amplitude of YZ_plane.nsi



	Peak	Average
Vertical	-3.88	-8.12
Horizontal	-1.17	-6.20