



P/N: AMT-PRF-340360-39-A

Technique Specofication

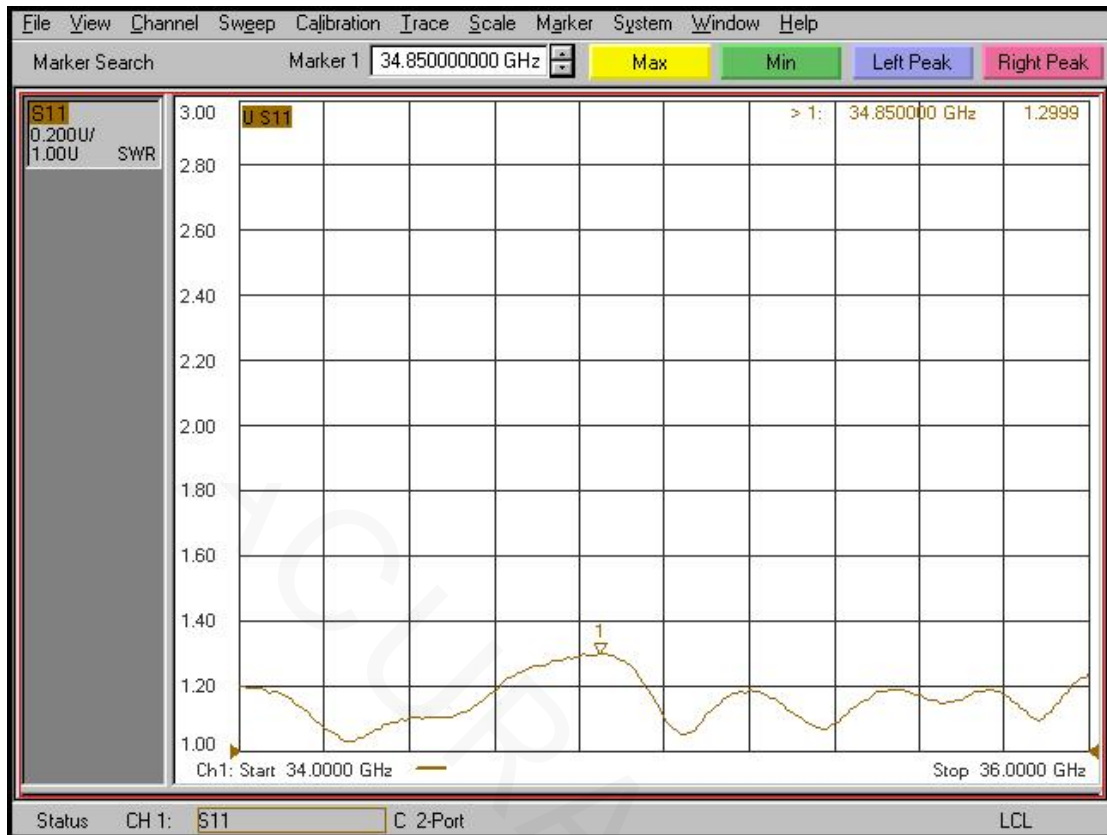
	Frequency Range(GHz)	34-36
	Gain(dBi)	39.5
	Polarization	Dual Linear
	VSWR	1.5 Max.
	Output WG Flange	WR 28/FBP320(UBR320)
	Size(mm)	Ø 400 x 240 (Ø x H).
	Material	Al
	Finish	Gray Paint

Gain

Frequency (GHz)	Horn Feed Gain (dBi)	Antenna Gain (dBi)
34.0	20.20	39.2
34.25	20.30	39.4
34.50	20.30	39.0
34.75	20.40	38.4
35.0	20.40	39.8
35.25	20.50	39.7
35.5	20.50	39.3
35.75	20.60	39.7
36.0	20.60	40.0

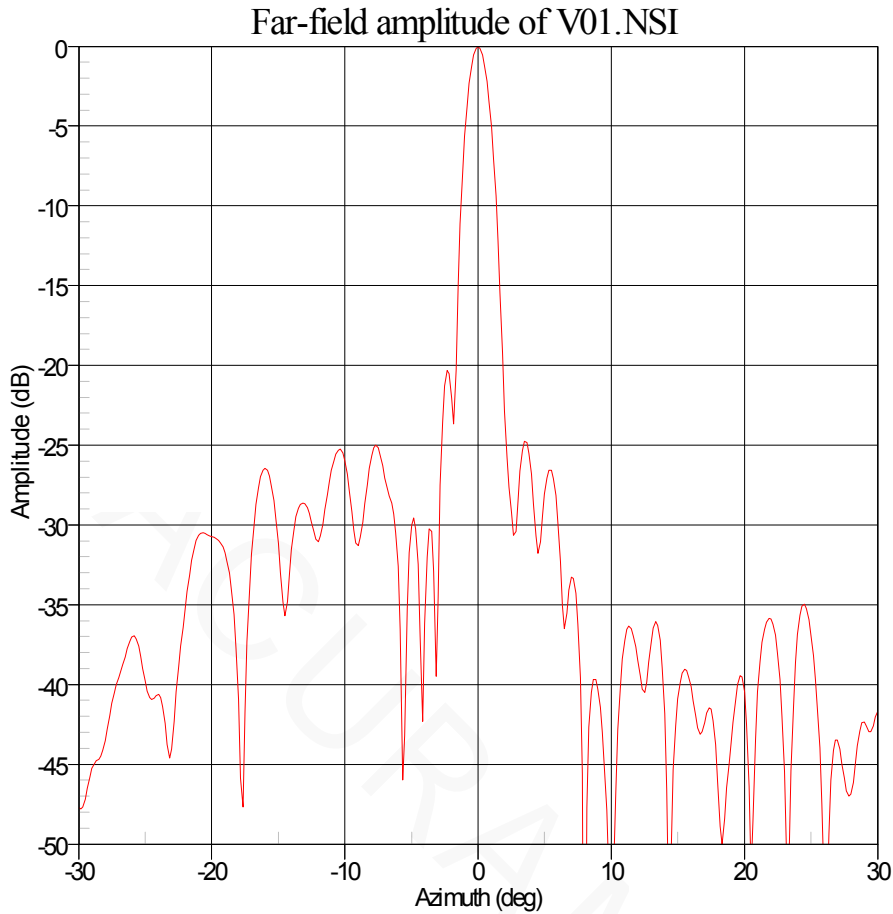


### VSWR





Pattern



Far-field amplitude, Eprincipal: Linear, Tau = -89.964096 deg, X-pol at peak = -32.23 dB

Gain = None Max far-field (global) = -37.92505 dB, Max far-field (plot) = -37.92506 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.451161 deg, Vpeak at: 0.022279 deg

Plot label centering: On

Directivity = 40.304 dB

Far-field Cut Analysis:

Avg value: -25.268 dB

-3. dB beam width: 1.514 deg, Peak from 3dB pts: 0.4642 deg

-6. dB beam width: 2.105 deg

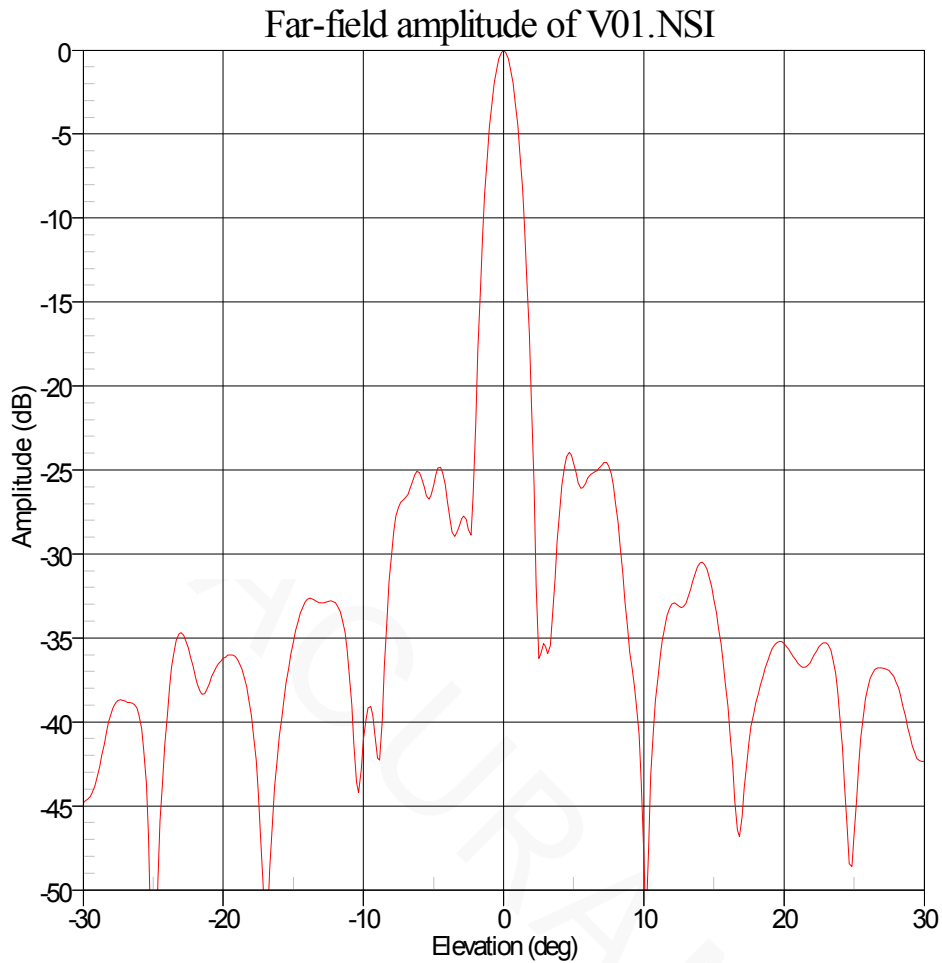
-10. dB beam width: 2.643 deg

Left Sidelobe: -20.31 dB at -2.333 deg

Right Sidelobe: -24.74 dB at 3.500 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
1	34.000000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = -89.964096 deg, X-pol at peak = -32.23 dB

Gain = None Max far-field (global) = -37.92505 dB, Max far-field (plot) = -37.92506 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.451161 deg, Vpeak at: 0.022279 deg

Plot label centering: On

Directivity = 40.304 dB

Far-field Cut Analysis:

Avg value: -24.757 dB

-3. dB beam width: 1.636 deg, Peak from 3dB pts: 0.0268 deg

-6. dB beam width: 2.282 deg

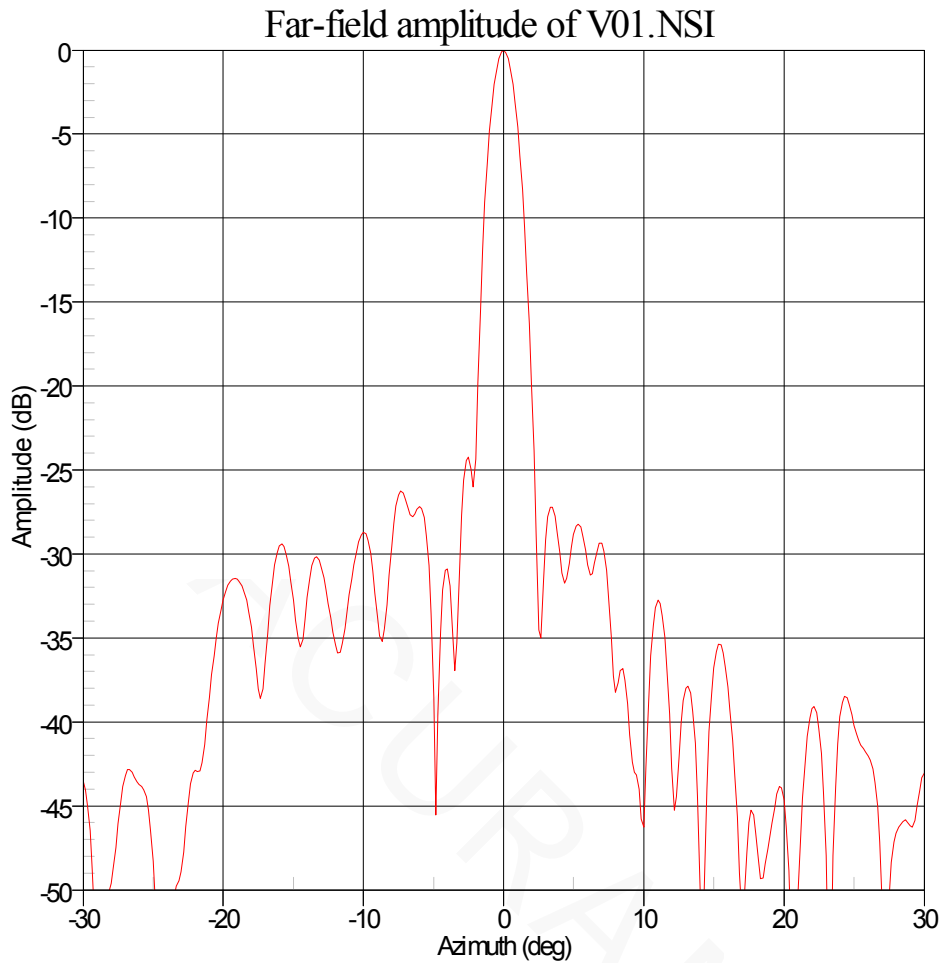
-10. dB beam width: 2.887 deg

Left Sidelobe: -27.75 dB at -2.833 deg

Right Sidelobe: -23.96 dB at 4.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
1	34.000000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.478845 deg, X-pol at peak = -35.91 dB

Gain = None Max far-field (global) = -36.86593 dB, Max far-field (plot) = -36.86593 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.434438 deg, Vpeak at: 0.009476 deg

Plot label centering: On

Directivity = 40.299 dB

Far-field Cut Analysis:

Avg value: -25.410 dB

-3. dB beam width: 1.604 deg, Peak from 3dB pts: 0.4398 deg

-6. dB beam width: 2.241 deg

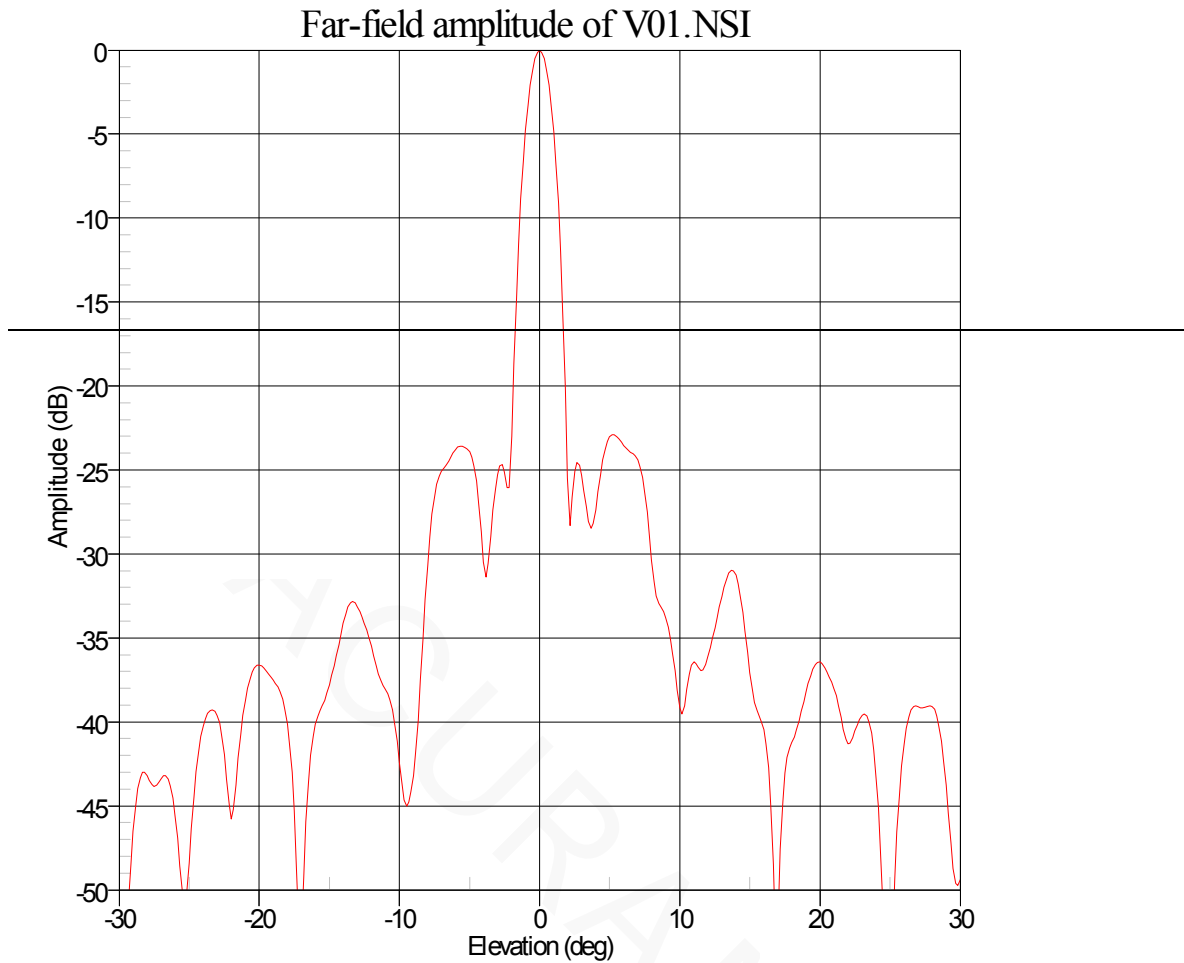
-10. dB beam width: 2.844 deg

Left Sidelobe: -24.22 dB at -2.500 deg

Right Sidelobe: -27.20 dB at 3.333 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
2	34.250000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.478845 deg, X-pol at peak = -35.91 dB

Gain = None Max far-field (global) = -36.86593 dB, Max far-field (plot) = -36.86593 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.434438 deg, Vpeak at: 0.009476 deg

Plot label centering: On

Directivity = 40.299 dB

Far-field Cut Analysis:

Avg value: -24.987 dB

-3. dB beam width: 1.588 deg, Peak from 3dB pts: 0.0075 deg

-6. dB beam width: 2.210 deg

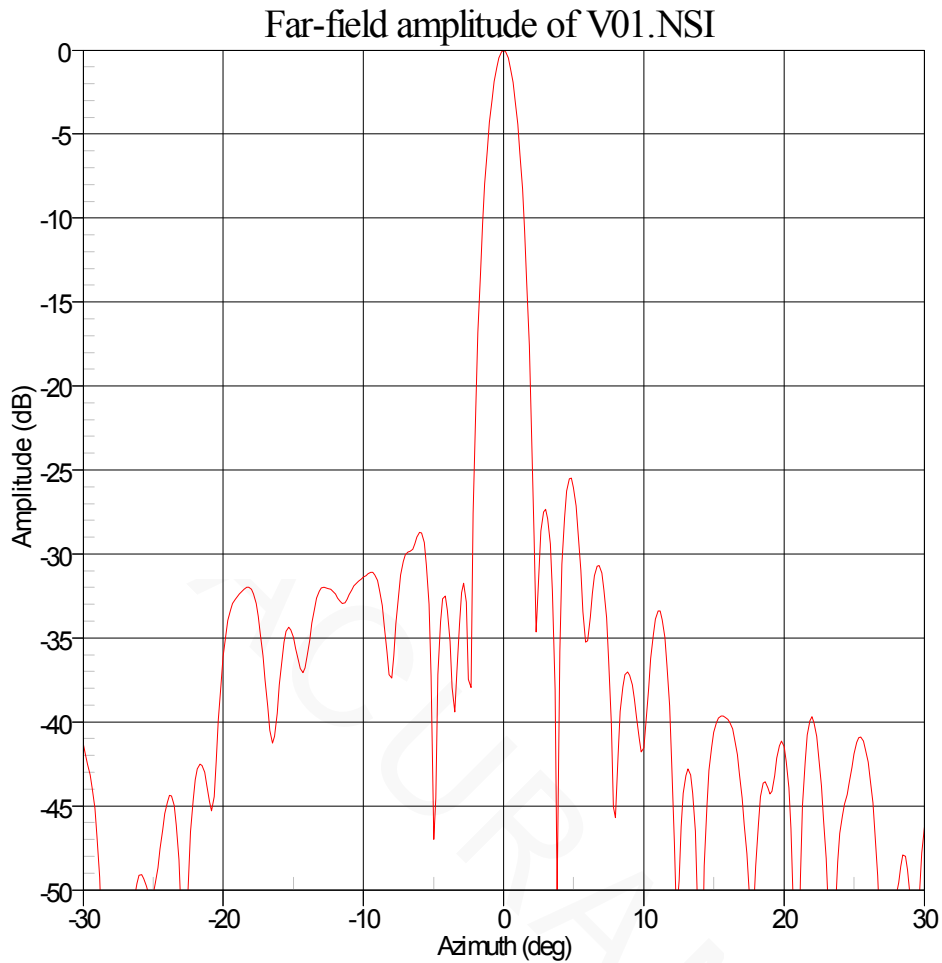
-10. dB beam width: 2.789 deg

Left Sidelobe: -24.68 dB at -2.667 deg

Right Sidelobe: -24.55 dB at 2.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
2	34.250000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.99475 deg, X-pol at peak = -39.34 dB

Gain = None Max far-field (global) = -43.63849 dB, Max far-field (plot) = -43.63849 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.421886 deg, Vpeak at: 0.000 deg

Plot label centering: On

Directivity = 40.473 dB

Far-field Cut Analysis:

Avg value: -25.734 dB

-3. dB beam width: 1.669 deg, Peak from 3dB pts: 0.4176 deg

-6. dB beam width: 2.321 deg

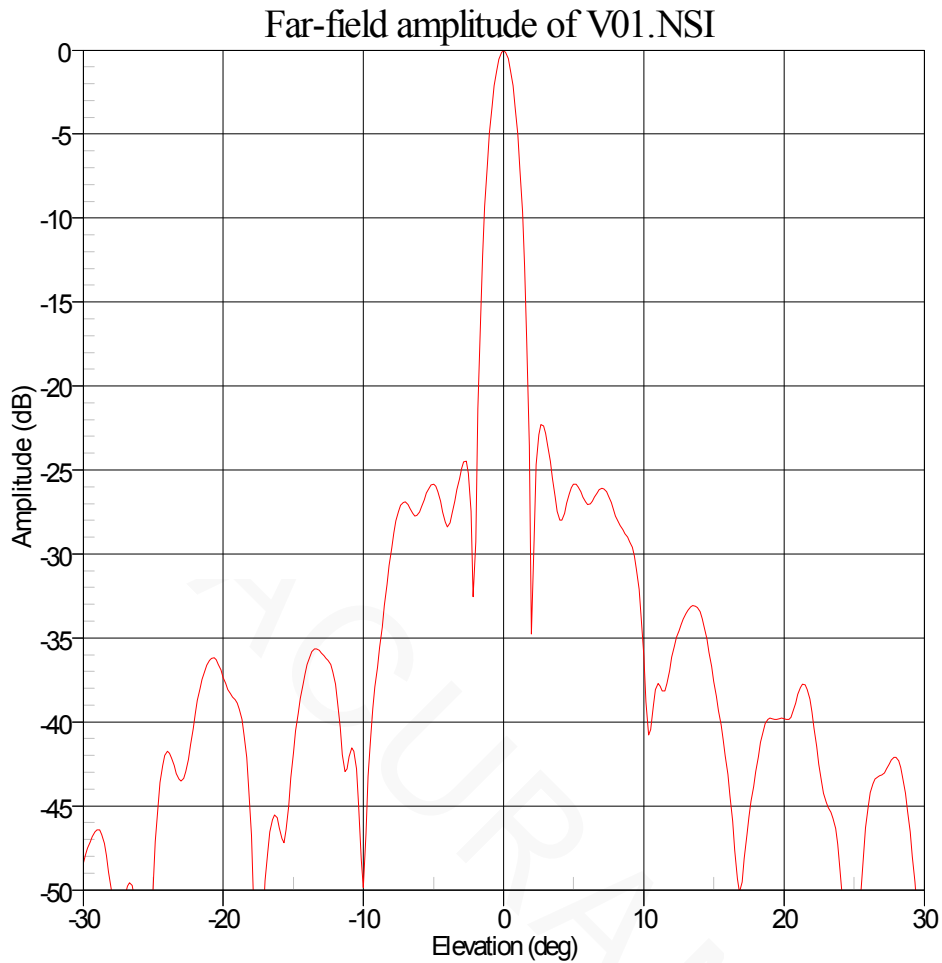
-10. dB beam width: 2.925 deg

Left Sidelobe: -31.74 dB at -2.833 deg

Right Sidelobe: -27.32 dB at 3.000 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
3	34.500000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.99475 deg, X-pol at peak = -39.34 dB

Gain = None Max far-field (global) = -43.63849 dB, Max far-field (plot) = -43.63849 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.421886 deg, Vpeak at: 0.000 deg

Plot label centering: On

Directivity = 40.473 dB

Far-field Cut Analysis:

Avg value: -25.477 dB

-3. dB beam width: 1.564 deg, Peak from 3dB pts: -0.0024 deg

-6. dB beam width: 2.170 deg

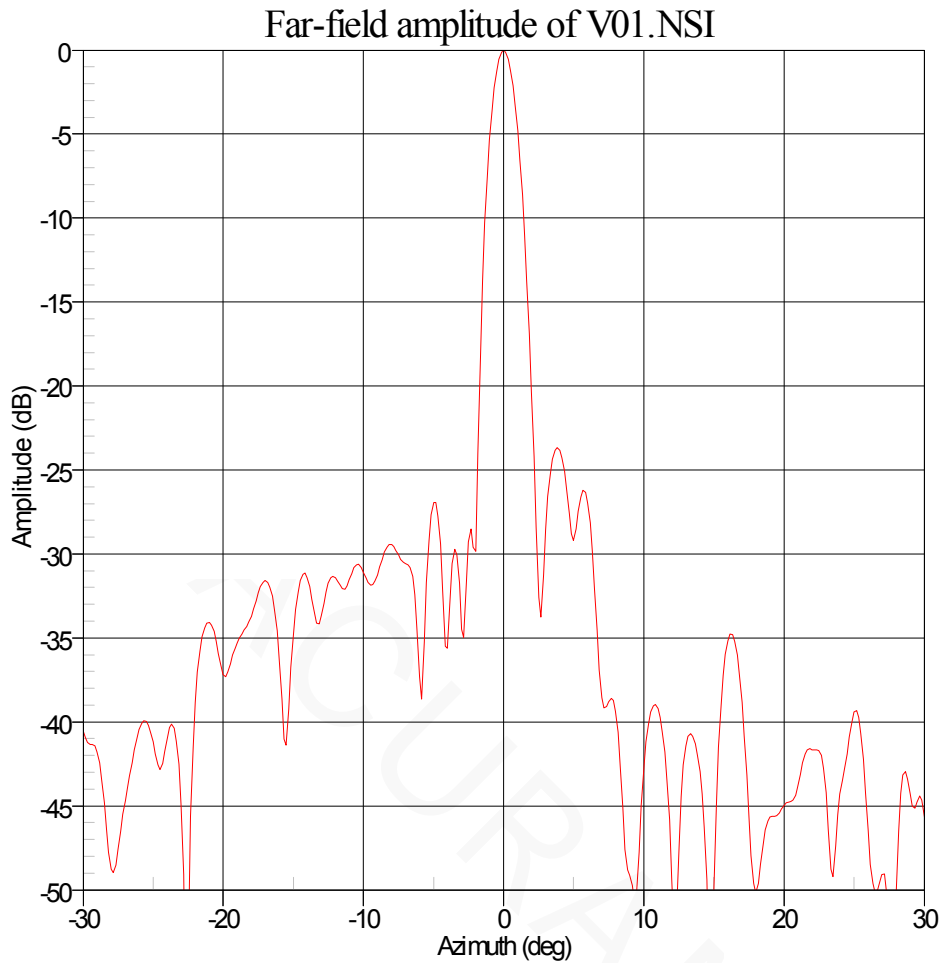
-10. dB beam width: 2.725 deg

Left Sidelobe: -24.47 dB at -2.667 deg

Right Sidelobe: -22.31 dB at 2.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
3	34.500000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.960101 deg, X-pol at peak = -28.43 dB

Gain = None Max far-field (global) = -50.38012 dB, Max far-field (plot) = -50.38012 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.412616 deg, Vpeak at: 0.000 deg

Plot label centering: On

Directivity = 40.396 dB

Far-field Cut Analysis:

Avg value: -25.686 dB

-3. dB beam width: 1.549 deg, Peak from 3dB pts: 0.4284 deg

-6. dB beam width: 2.166 deg

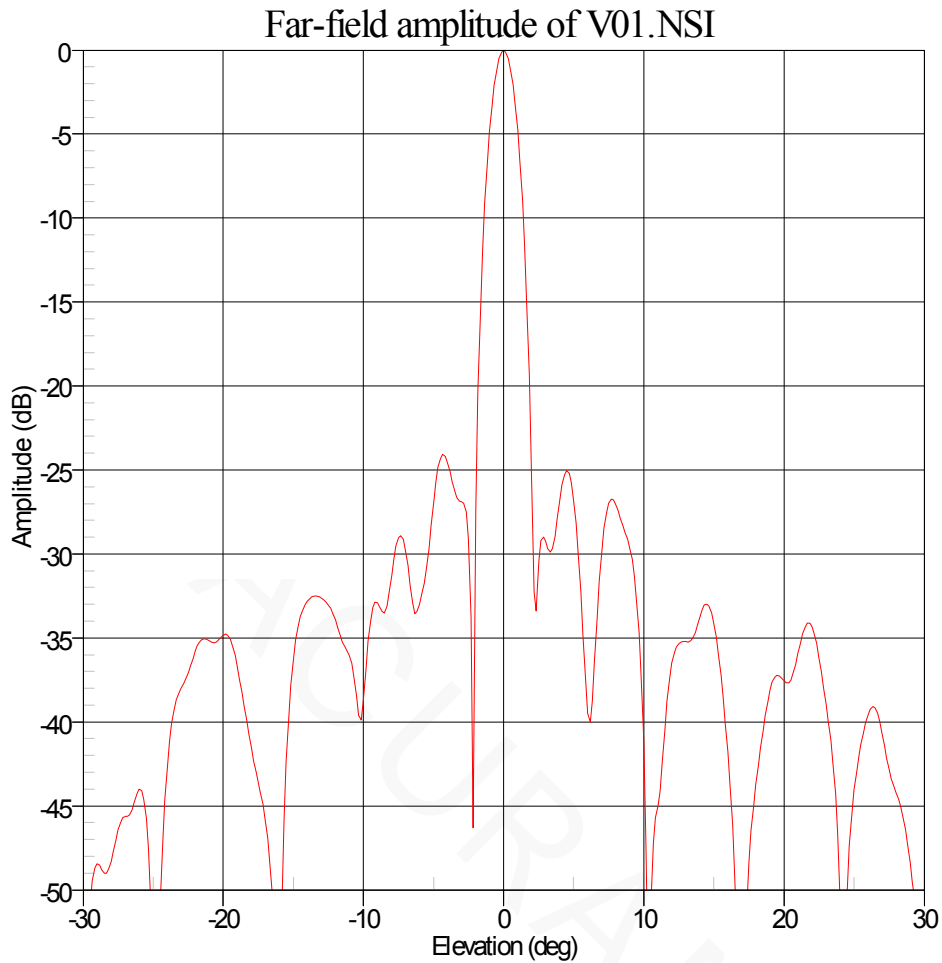
-10. dB beam width: 2.746 deg

Left Sidelobe: -28.52 dB at -2.333 deg

Right Sidelobe: -23.68 dB at 3.833 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
4	34.750000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.960101 deg, X-pol at peak = -28.43 dB

Gain = None Max far-field (global) = -50.38012 dB, Max far-field (plot) = -50.38012 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.412616 deg, Vpeak at: 0.000 deg

Plot label centering: On

Directivity = 40.396 dB

Far-field Cut Analysis:

Avg value: -25.451 dB

-3. dB beam width: 1.590 deg, Peak from 3dB pts: 0.0046 deg

-6. dB beam width: 2.211 deg

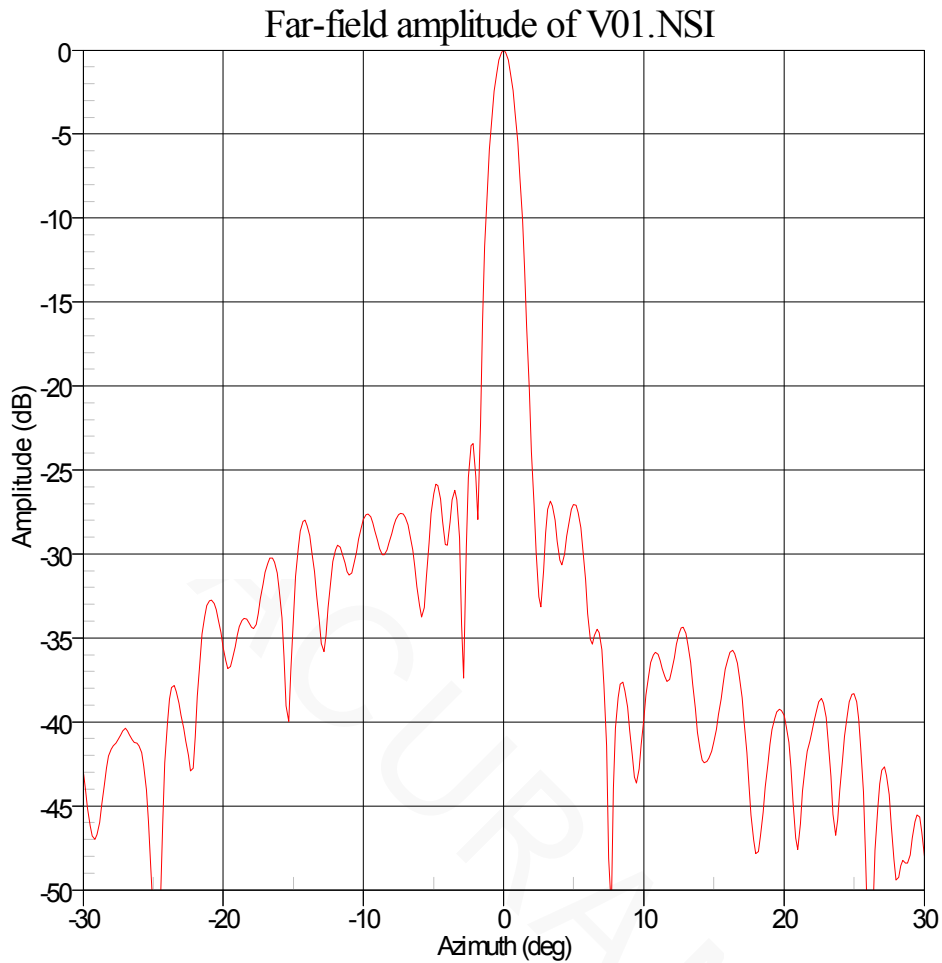
-10. dB beam width: 2.785 deg

Left Sidelobe: -24.08 dB at -4.333 deg

Right Sidelobe: -28.98 dB at 2.833 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
4	34.750000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.360622 deg, X-pol at peak = -28.09 dB

Gain = None Max far-field (global) = -46.61235 dB, Max far-field (plot) = -46.61235 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.459915 deg, Vpeak at: 0.032465 deg

Plot label centering: On

Directivity = 40.518 dB

Far-field Cut Analysis:

Avg value: -25.696 dB

-3. dB beam width: 1.469 deg, Peak from 3dB pts: 0.4663 deg

-6. dB beam width: 2.048 deg

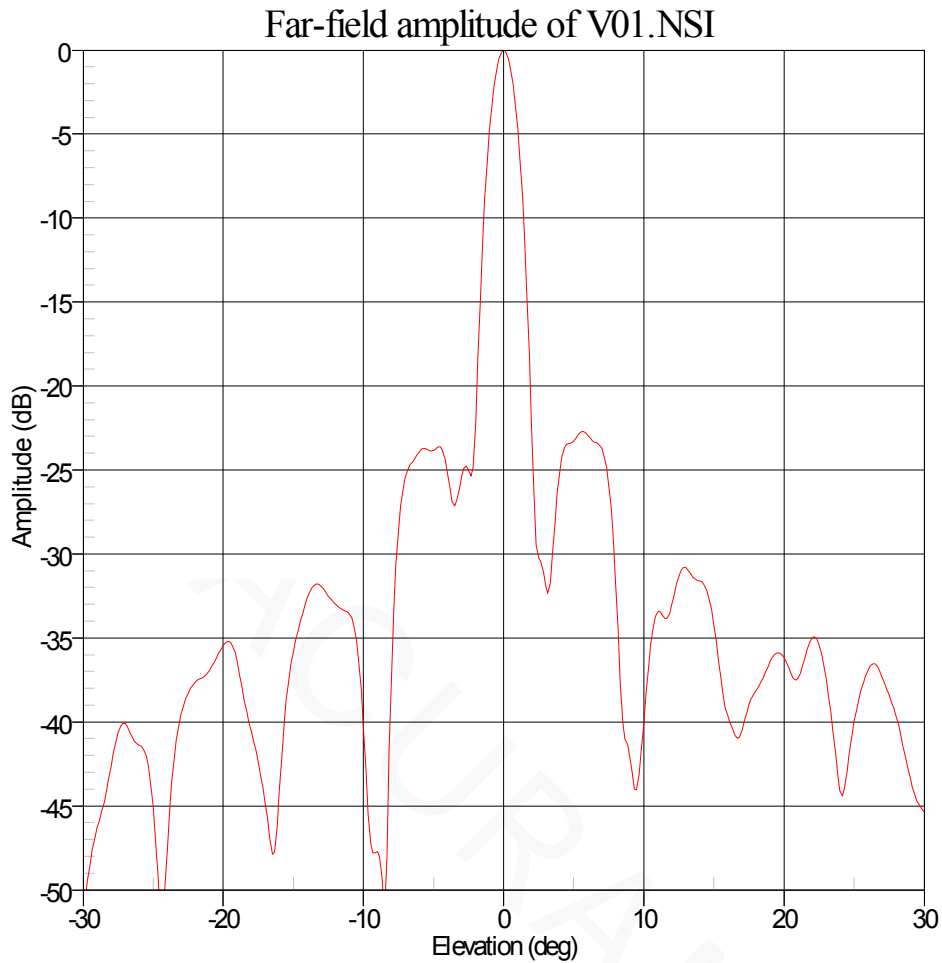
-10. dB beam width: 2.574 deg

Left Sidelobe: -23.44 dB at -2.167 deg

Right Sidelobe: -26.87 dB at 3.333 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
5	35.000000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.360622 deg, X-pol at peak = -28.09 dB

Gain = None Max far-field (global) = -46.61235 dB, Max far-field (plot) = -46.61235 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.459915 deg, Vpeak at: 0.032465 deg

Plot label centering: On

Directivity = 40.518 dB

Far-field Cut Analysis:

Avg value: -24.692 dB

-3. dB beam width: 1.604 deg, Peak from 3dB pts: 0.0378 deg

-6. dB beam width: 2.235 deg

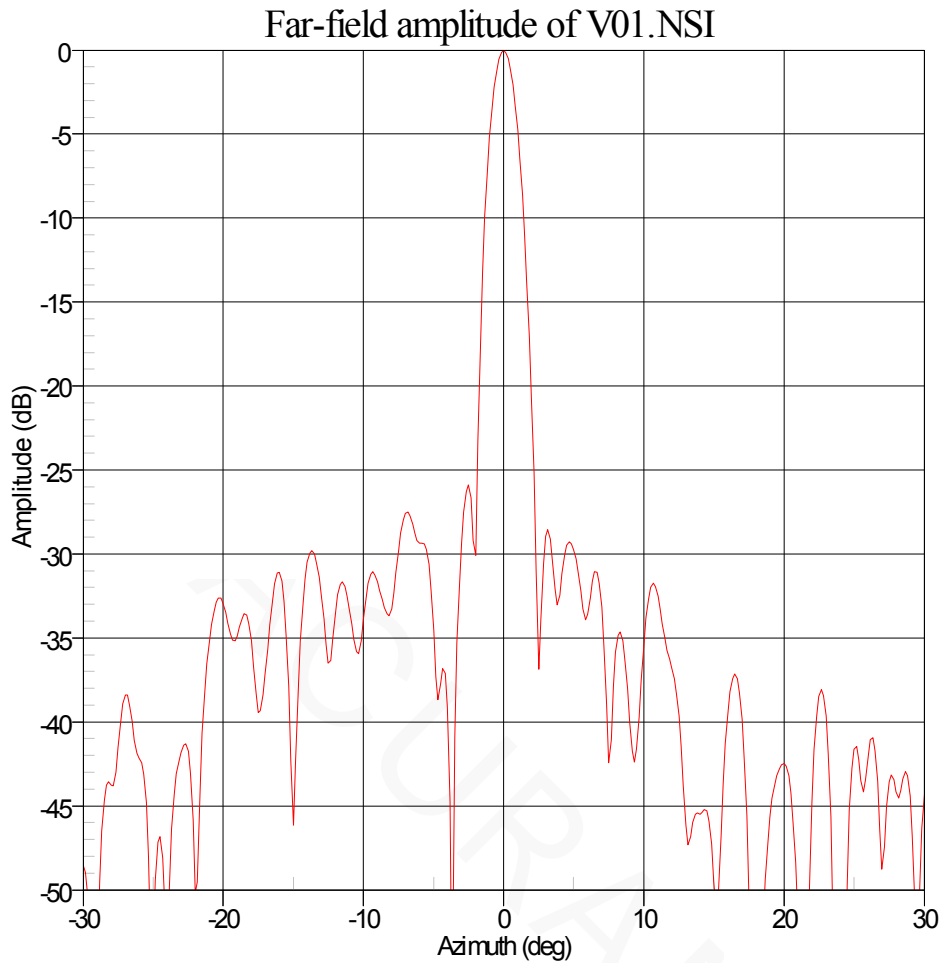
-10. dB beam width: 2.826 deg

Left Sidelobe: -23.63 dB at -4.667 deg

Right Sidelobe: -22.69 dB at 5.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
5	35.000000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 88.972783 deg, X-pol at peak = -34.17 dB

Gain = None Max far-field (global) = -55.9203 dB, Max far-field (plot) = -55.9203 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.441302 deg, Vpeak at: 0.021488 deg

Plot label centering: On

Directivity = 40.503 dB

Far-field Cut Analysis:

Avg value: -25.884 dB

-3. dB beam width: 1.563 deg, Peak from 3dB pts: 0.4542 deg

-6. dB beam width: 2.181 deg

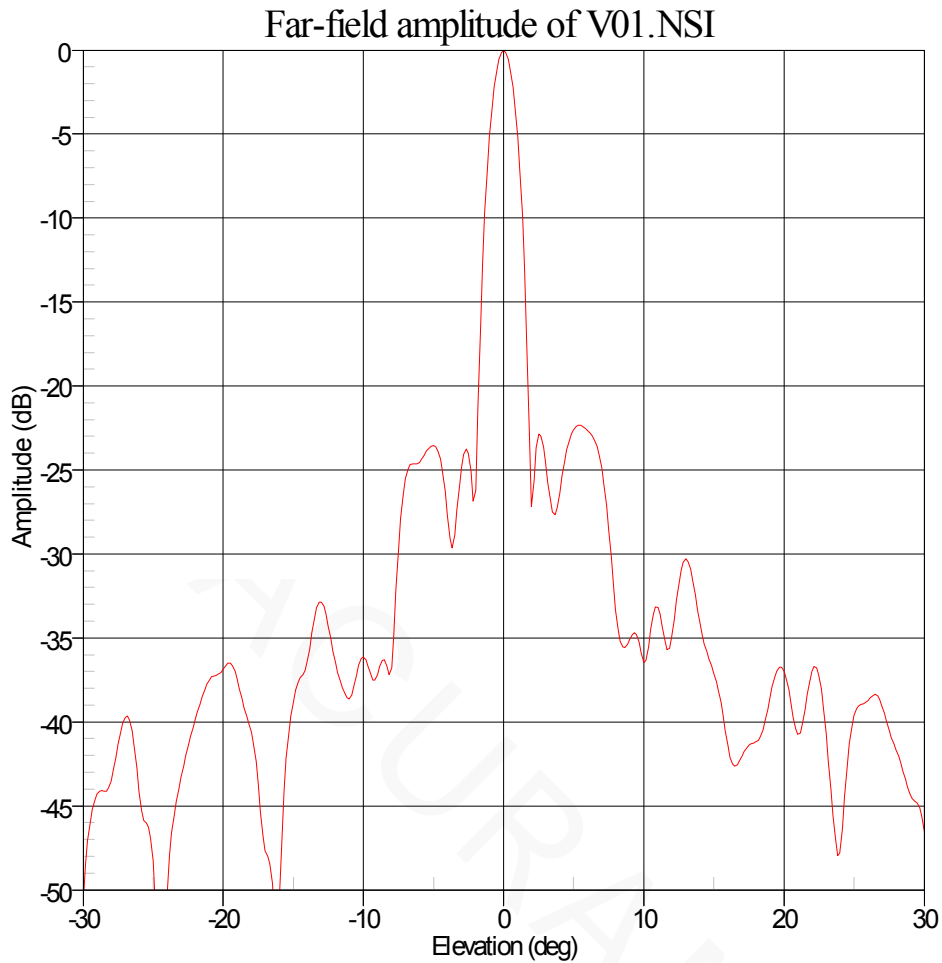
-10. dB beam width: 2.765 deg

Left Sidelobe: -25.88 dB at -2.500 deg

Right Sidelobe: -28.55 dB at 3.167 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
6	35.250000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 88.972783 deg, X-pol at peak = -34.17 dB

Gain = None Max far-field (global) = -55.9203 dB, Max far-field (plot) = -55.9203 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.441302 deg, Vpeak at: 0.021488 deg

Plot label centering: On

Directivity = 40.503 dB

Far-field Cut Analysis:

Avg value: -25.087 dB

-3. dB beam width: 1.539 deg, Peak from 3dB pts: 0.0207 deg

-6. dB beam width: 2.138 deg

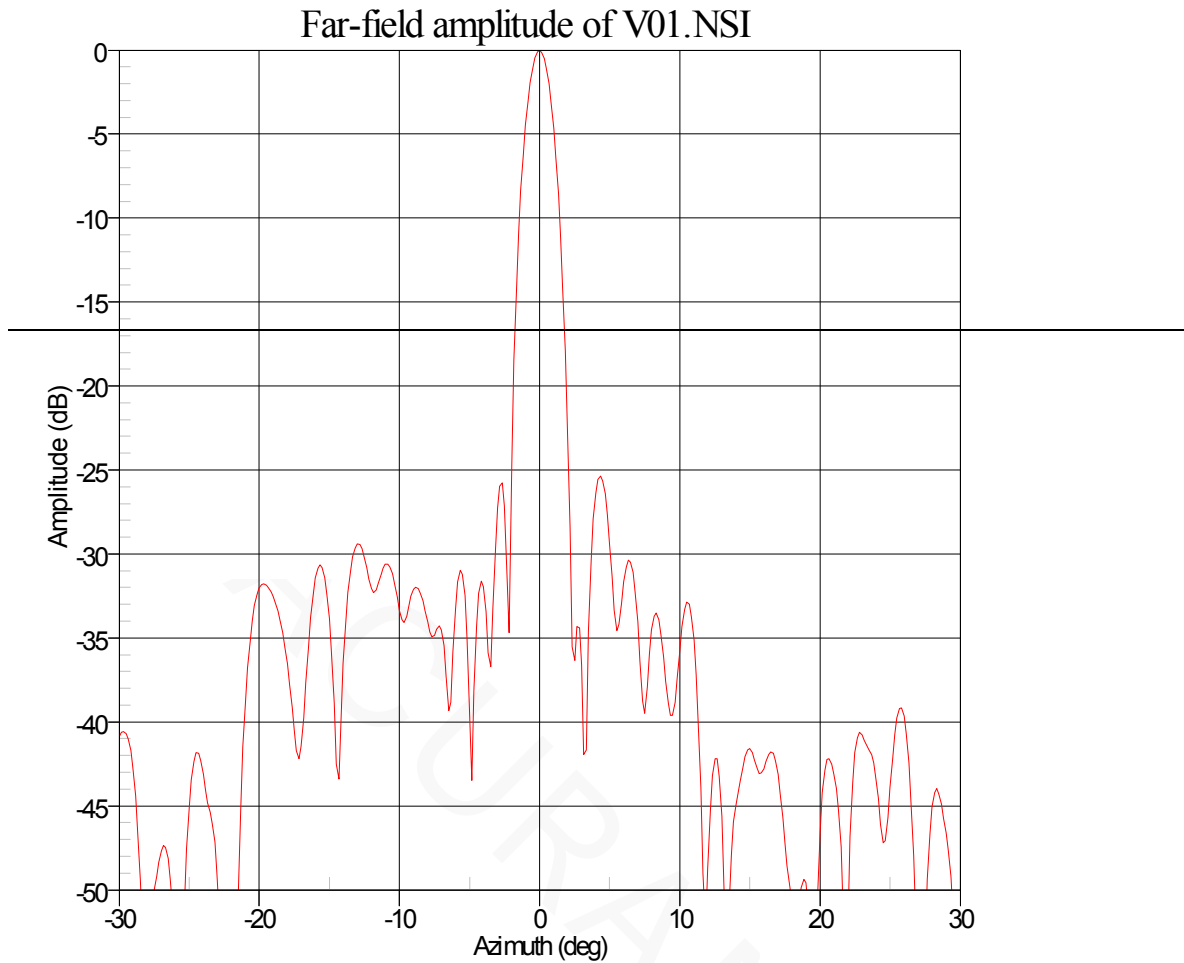
-10. dB beam width: 2.693 deg

Left Sidelobe: -23.75 dB at -2.667 deg

Right Sidelobe: -22.88 dB at 2.500 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
6	35.250000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.582842 deg, X-pol at peak = -51.06 dB

Gain = None Max far-field (global) = -48.2797 dB, Max far-field (plot) = -48.2797 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.461059 deg, Vpeak at: 0.006097 deg

Plot label centering: On

Directivity = 40.616 dB

Far-field Cut Analysis:

Avg value: -25.805 dB

-3. dB beam width: 1.632 deg, Peak from 3dB pts: 0.4522 deg

-6. dB beam width: 2.272 deg

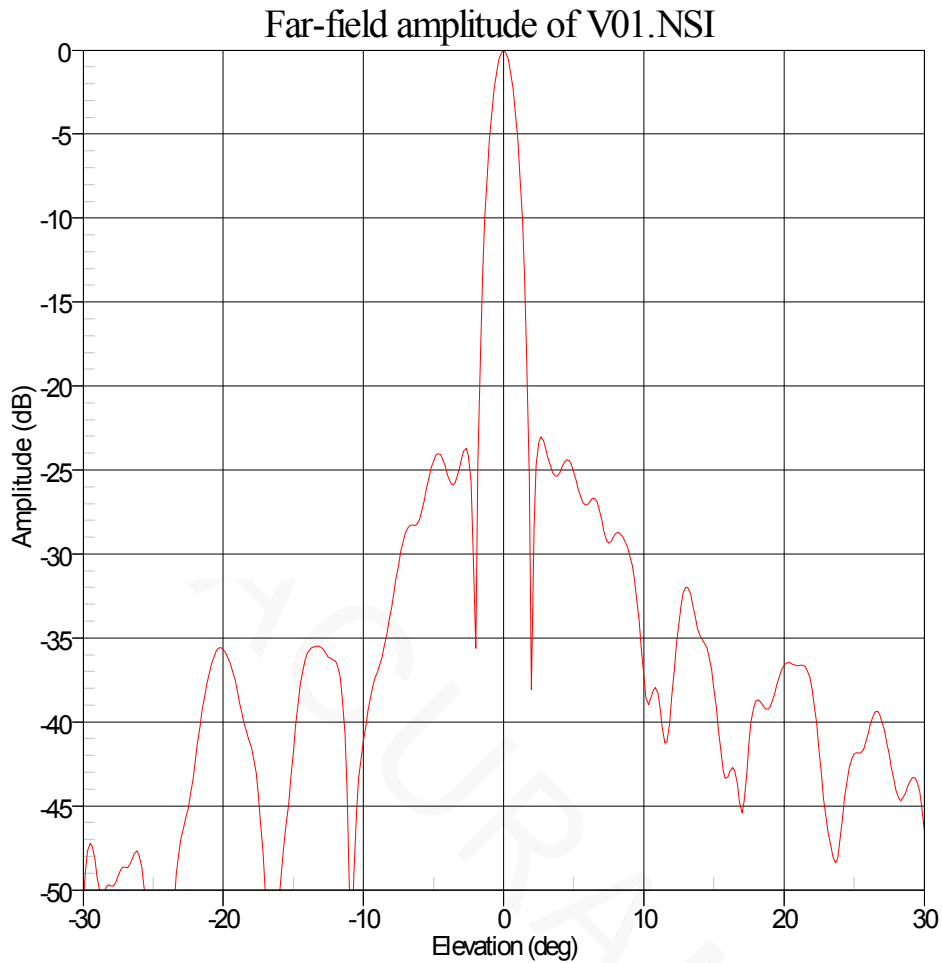
-10. dB beam width: 2.864 deg

Left Sidelobe: -25.78 dB at -2.667 deg

Right Sidelobe: -34.33 dB at 2.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
7	35.500000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 89.582842 deg, X-pol at peak = -51.06 dB

Gain = None Max far-field (global) = -48.2797 dB, Max far-field (plot) = -48.2797 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.461059 deg, Vpeak at: 0.006097 deg

Plot label centering: On

Directivity = 40.616 dB

Far-field Cut Analysis:

Avg value: -25.562 dB

-3. dB beam width: 1.516 deg, Peak from 3dB pts: 0.0069 deg

-6. dB beam width: 2.107 deg

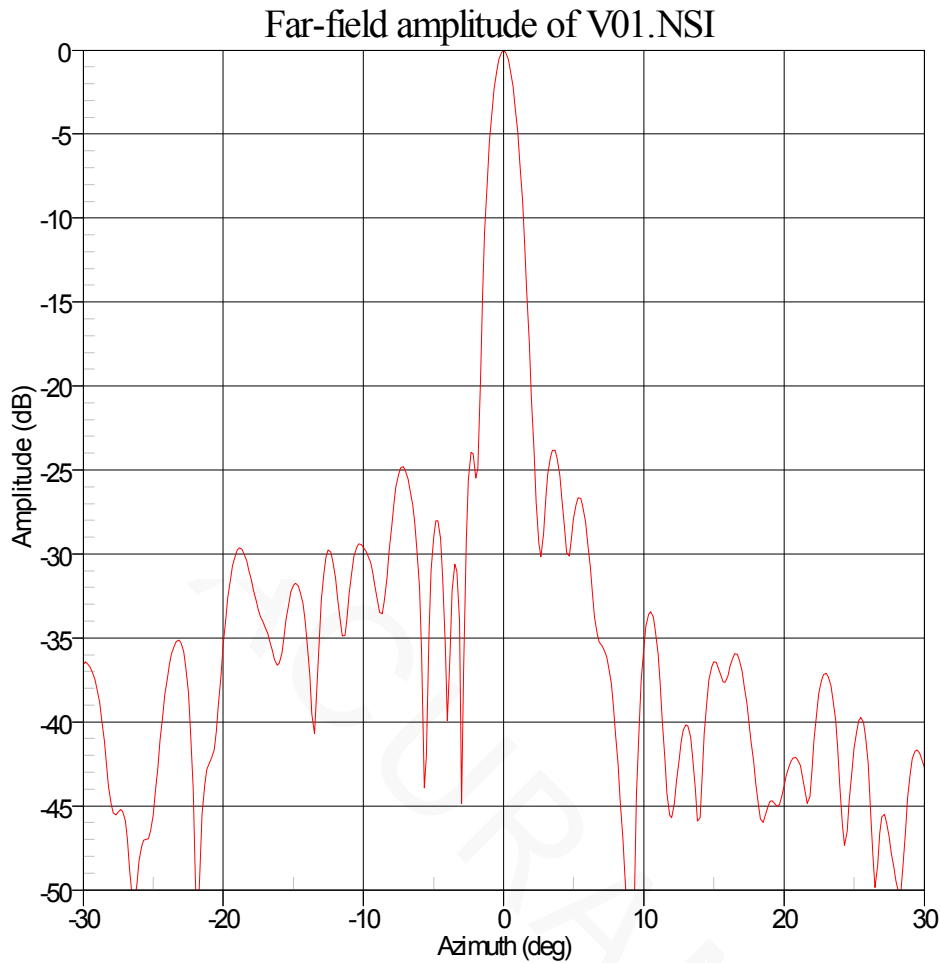
-10. dB beam width: 2.649 deg

Left Sidelobe: -23.73 dB at -2.667 deg

Right Sidelobe: -23.04 dB at 2.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
7	35.500000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = -89.180687 deg, X-pol at peak = -28.57 dB

Gain = None Max far-field (global) = -42.9317 dB, Max far-field (plot) = -42.9317 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.40713 deg, Vpeak at: 0.000 deg

Plot label centering: On

Directivity = 40.353 dB

Far-field Cut Analysis:

Avg value: -25.532 dB

-3. dB beam width: 1.533 deg, Peak from 3dB pts: 0.4207 deg

-6. dB beam width: 2.135 deg

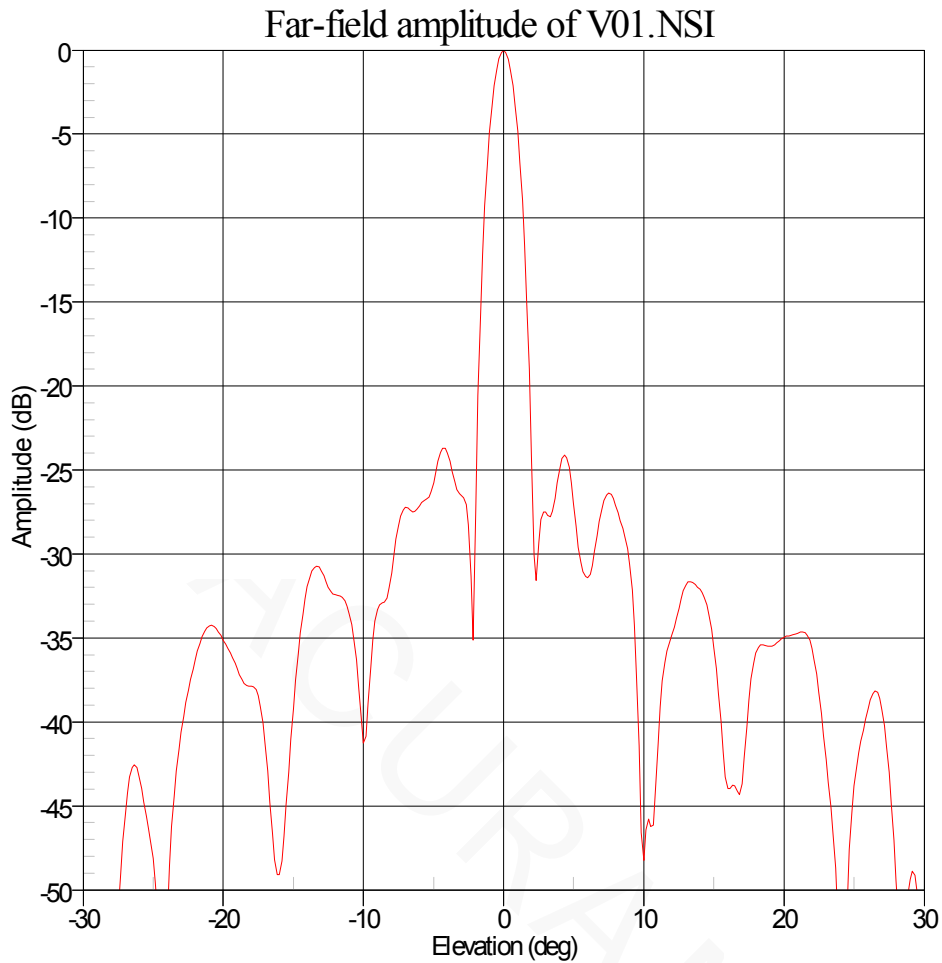
-10. dB beam width: 2.693 deg

Left Sidelobe: -23.96 dB at -2.333 deg

Right Sidelobe: -23.81 dB at 3.500 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
8	35.750000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = -89.180687 deg, X-pol at peak = -28.57 dB

Gain = None Max far-field (global) = -42.9317 dB, Max far-field (plot) = -42.9317 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.40713 deg, Vpeak at: 0.000 deg

Plot label centering: On

Directivity = 40.353 dB

Far-field Cut Analysis:

Avg value: -25.132 dB

-3. dB beam width: 1.576 deg, Peak from 3dB pts: 0.0010 deg

-6. dB beam width: 2.196 deg

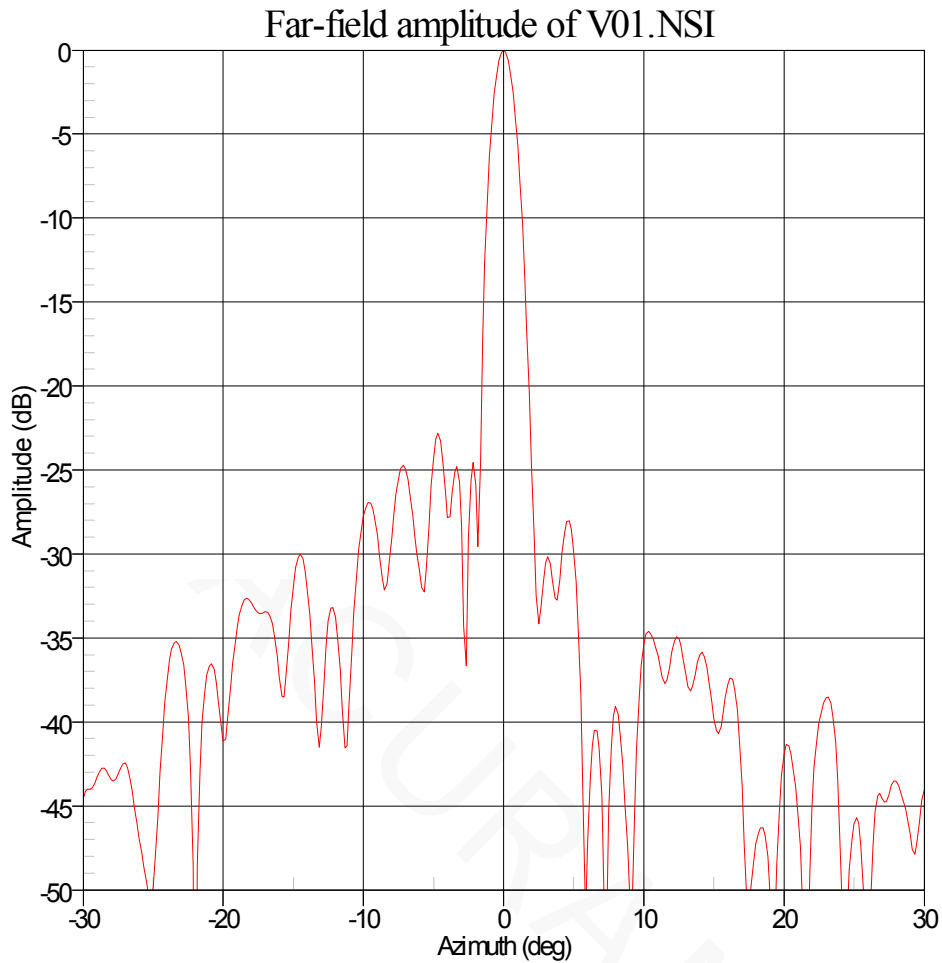
-10. dB beam width: 2.774 deg

Left Sidelobe: -23.71 dB at -4.333 deg

Right Sidelobe: -27.48 dB at 2.833 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
8	35.750000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 88.88858 deg, X-pol at peak = -28.18 dB

Gain = None Max far-field (global) = -40.30418 dB, Max far-field (plot) = -40.30418 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.44113 deg, Vpeak at: 0.037577 deg

Plot label centering: On

Directivity = 40.777 dB

Far-field Cut Analysis:

Avg value: -26.095 dB

-3. dB beam width: 1.434 deg, Peak from 3dB pts: 0.4516 deg

-6. dB beam width: 2.001 deg

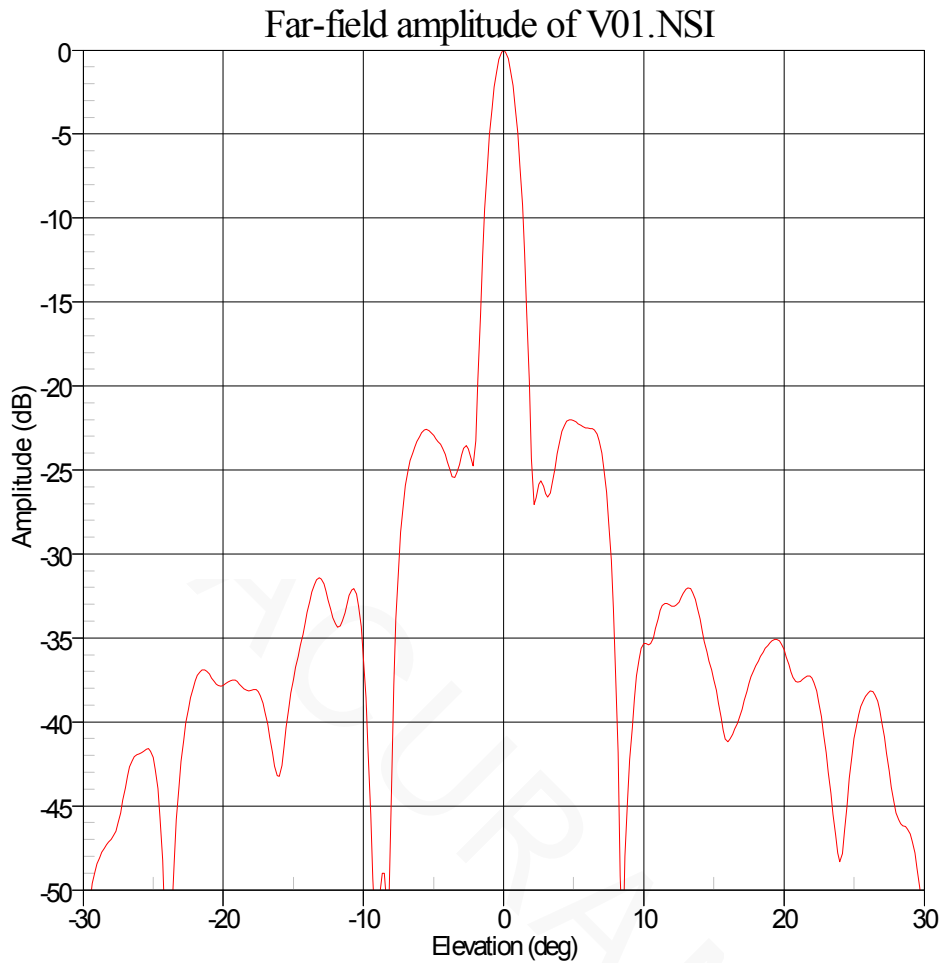
-10. dB beam width: 2.524 deg

Left Sidelobe: -24.56 dB at -2.167 deg

Right Sidelobe: -30.18 dB at 3.167 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
9	36.000000 GHz	Y axis	X axis	Dual-pol



Far-field amplitude, Eprincipal: Linear, Tau = 88.88858 deg, X-pol at peak = -28.18 dB

Gain = None Max far-field (global) = -40.30418 dB, Max far-field (plot) = -40.30418 dB

Normalization: Peak (Global), Network offset = 0.000 dB

Hpeak at: 0.44113 deg, Vpeak at: 0.037577 deg

Plot label centering: On

Directivity = 40.777 dB

Far-field Cut Analysis:

Avg value: -24.804 dB

-3. dB beam width: 1.554 deg, Peak from 3dB pts: 0.0431 deg

-6. dB beam width: 2.168 deg

-10. dB beam width: 2.743 deg

Left Sidelobe: -23.53 dB at -2.667 deg

Right Sidelobe: -25.66 dB at 2.667 deg

Selected beam(s) 1 of 9

Beam	Frequency	Y axis	X axis	Pol axis
9	36.000000 GHz	Y axis	X axis	Dual-pol