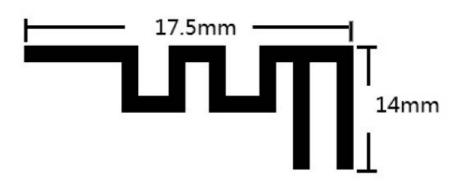
ANTENNA TEST REPORT

Antenna Type:	PCB		
Test Items:	Gain; Efficiency; Radiation Pattern		
Test Frequency (MHz):	2400/2450/2500		
	Sperax		
Manufacture:	Sperax		
Manufacture: Address:	Sperax Room 2207, Building 1, Vanke Phase I, No. 209 Fuxi Road, Fengze		

TEST RESULTS

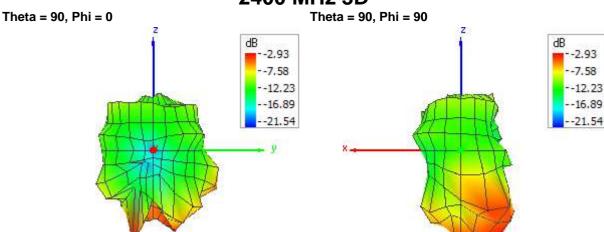
Gain and Efficiency

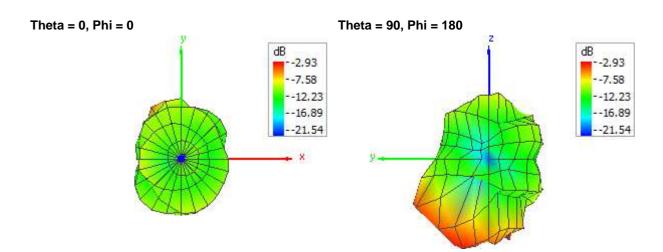
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400.00	-2.93	9.78
2450.00	-3.85	7.68
2500.00	-4.43	6.86

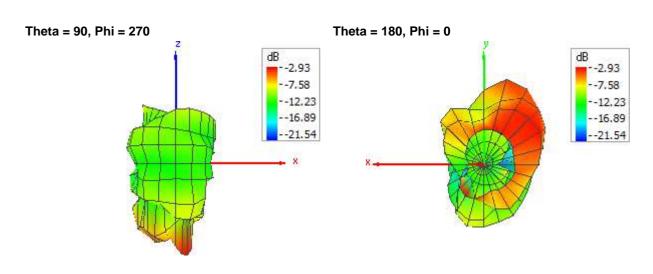


Radiation Pattern

2400 MHz 3D







2450 MHz 3D Theta = 90, Phi = 90 Theta = 90, Phi = 0dΒ dB -3.85 -3.85 --8.71 --8.71 --13.57 --13.57 --18.43 --18.43 -23.29 -23.29 Theta = 0, Phi = 0Theta = 90, Phi = 180 --3.85 --3.85 --8.71 -8.71 --13.57 --13,57 -18,43 --18,43 -23.29 -23.29 Theta = 90, Phi = 270 Theta = 180, Phi = 0 -3.85 -3.85 -8.71 --8.71 -13.57 --13.57 --18,43 --18.43 -23.29 -23.29

2500 MHz 3D Theta = 90, Phi = 90 Theta = 90, Phi = 0dB. dB -4.43 -4.43 --9.34 --9.34 --14.26 --14,26 --19,18 --19.18 -24.09 -24.09 Theta = 0, Phi = 0Theta = 90, Phi = 180 -4.43 -4.43 --9.34 --9.34 --14.26 --14.26 -19,18 -19,18 -24.09 -24.09 Theta = 90, Phi = 270 Theta = 180, Phi = 0 4.43 -4.43 --9.34 --9.34 --14.26 -14.26 --19.18 --19.18 -24.09 -24.09