

Regulatory WWAN Antenna Information

Platform	
Platform Owner	Dell Inc.
Brand Name	Dell
Regulatory Model	PT02
Regulatory Type	PT02002
ODM	Quanta Computer Inc.
Target Launch Date	2010/3/30
Antenna	
Brand Name	Auden
Part Number	■ Tx1 Antenna: 220265-09
	■ Tx2 (or Rx2) Antenna : 220265-09
Module	
With WWAN Module	■ Ericsson (DW5540)
(Check Box)	

1. Specifications

Antenna Specifications

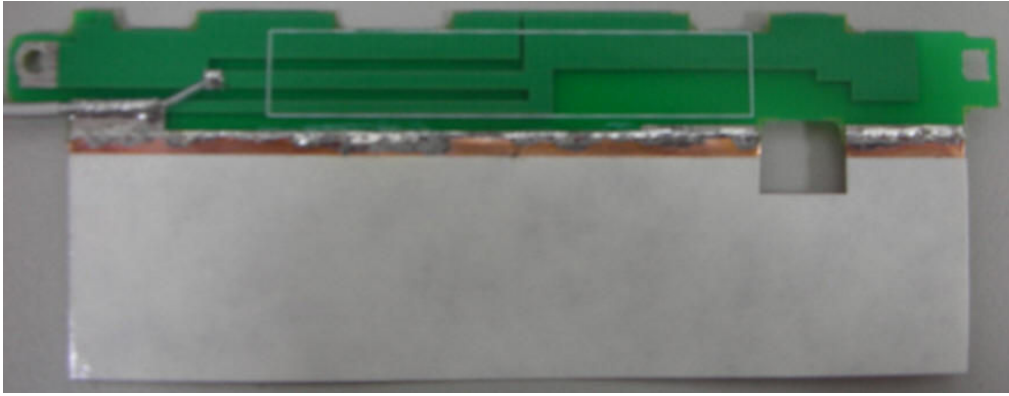
Remark: Peak Gains include all system losses (connector, cable, etc)

Antenna Type (Material, Technology)	PCB, IFA
Operating Frequency Range(s)	824MHz ~ 960MHz and 1710MHz ~ 2170MHz
Peak Gain (Low Band) (dBi)	Main: -0.06 / Aux: -1.85
Peak Gain (High Band) (dBi)	Main: 1.15 / Aux: 0.01
Radio Connector Type	T-NOTE
Mid-Line Connector Type (If Applicable)	N/A

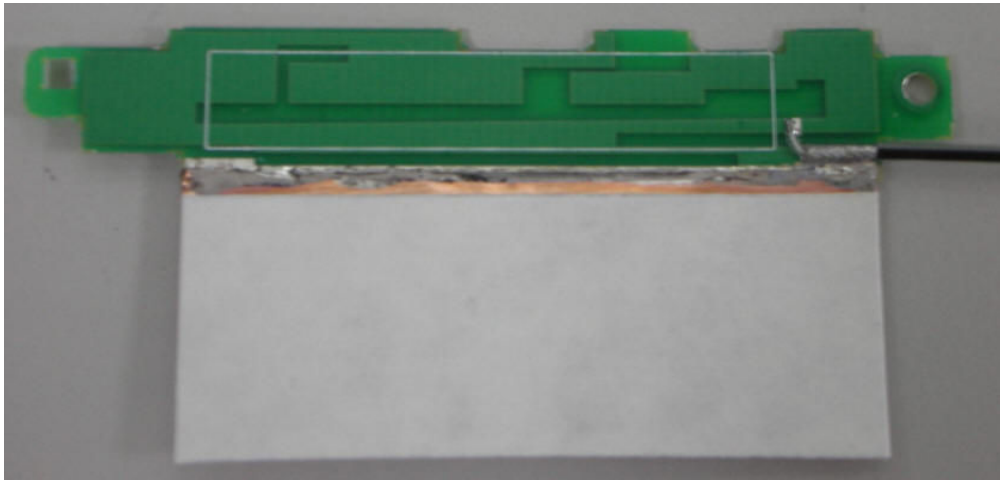
Cable Specifications

Cable Parameters	Main			Aux		
	LCD Side	Base Side	Total	LCD Side	Base Side	Total
Length (mm)	N/A	N/A	398.1	N/A	N/A	617.4
Loss (Including Connectors) (dB, 0.9GHz / 2GHz)			0.60 / 0.91			0.97 / 1.45
Description (Color, Diameter, Manufacturer)	Color: White with a gray stripe OD: 1.13 mm (low loss) Vendor: GBE			Color: Black with a gray stripe OD: 1.13 mm (low loss) Vendor: GBE		

2. Antenna Assembly



Main Antenna



Aux Antenna

3. Antenna Assembly Installed in The Notebook

Main Antenna

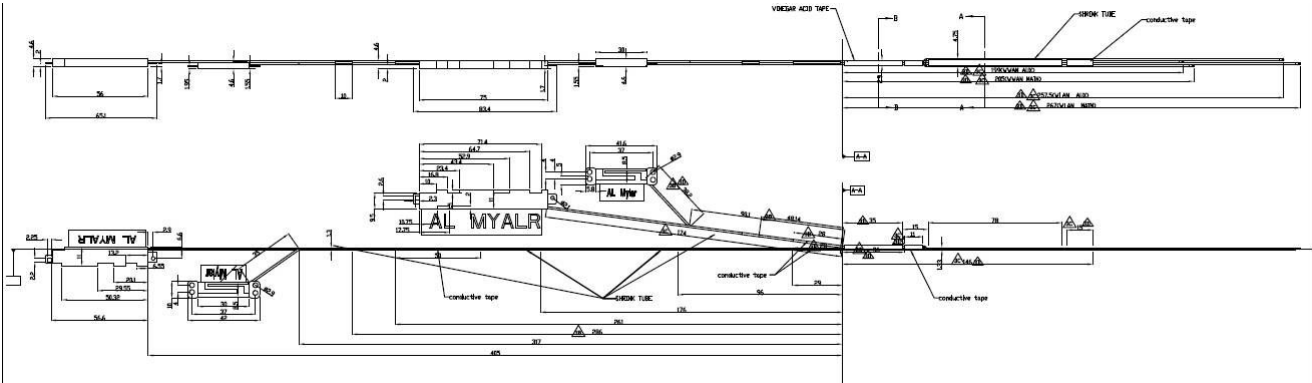


Aux Antenna

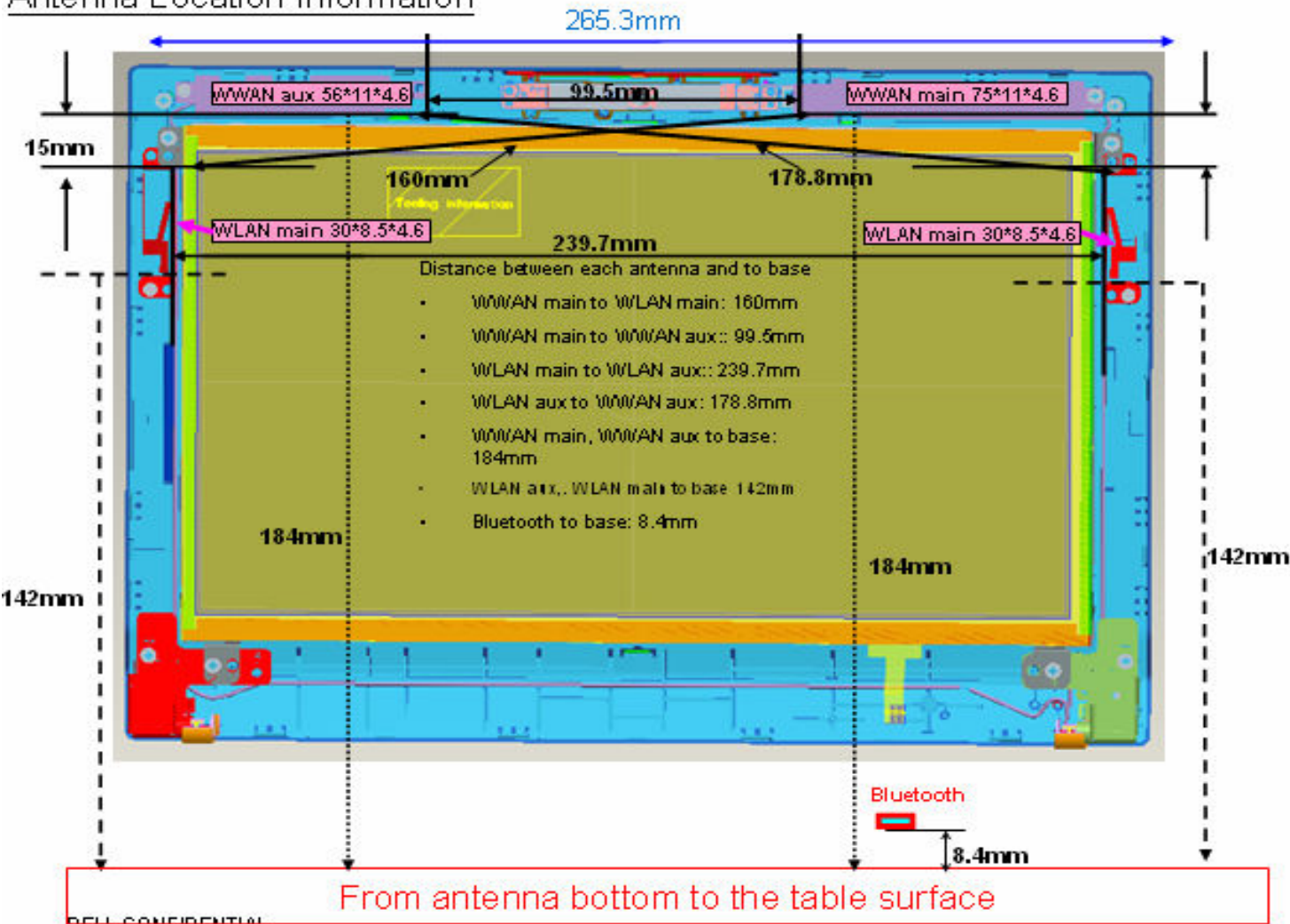


4. Mechanical Drawing of Antennas

Main and Aux Antenna

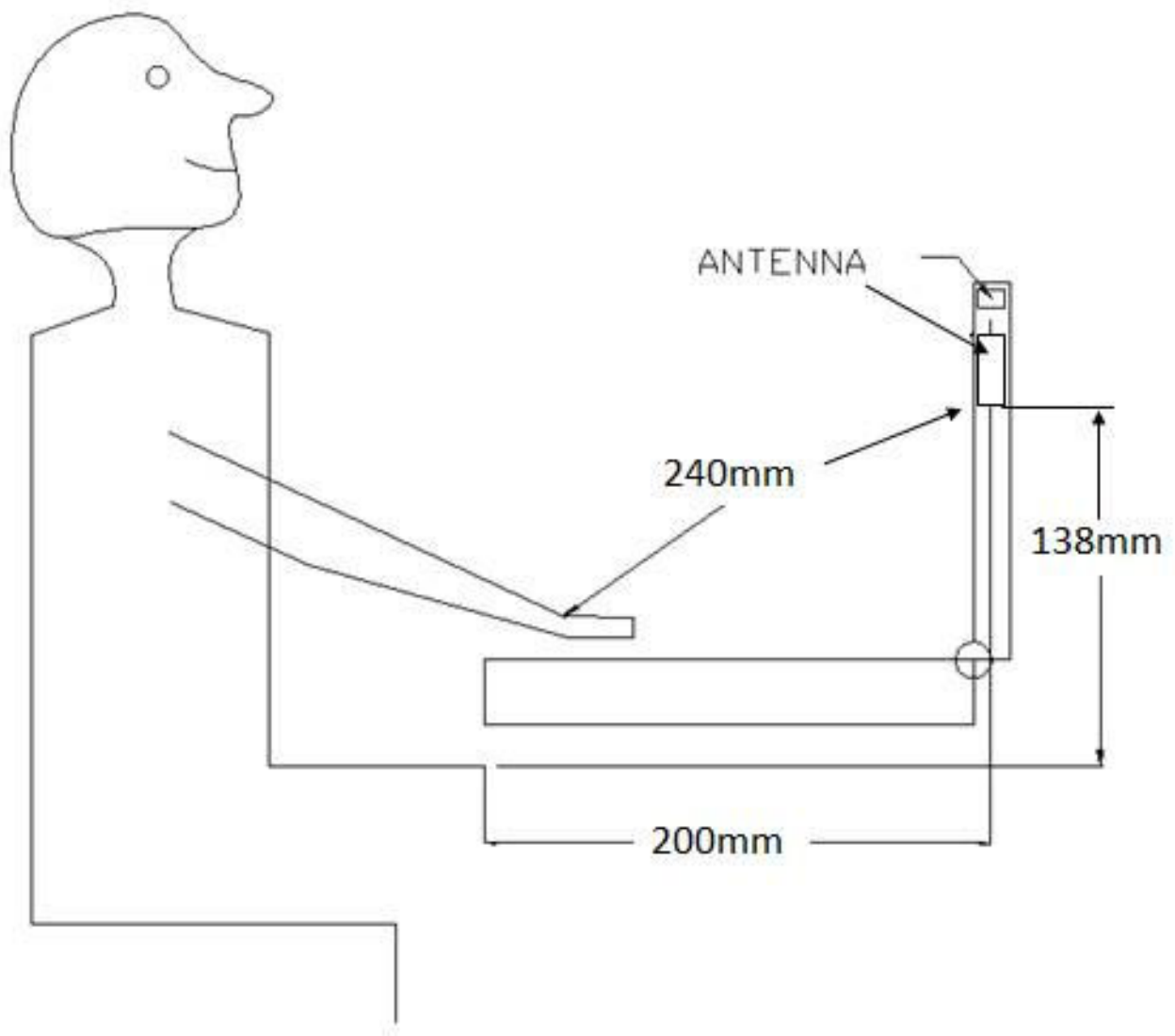


Antenna Location Information



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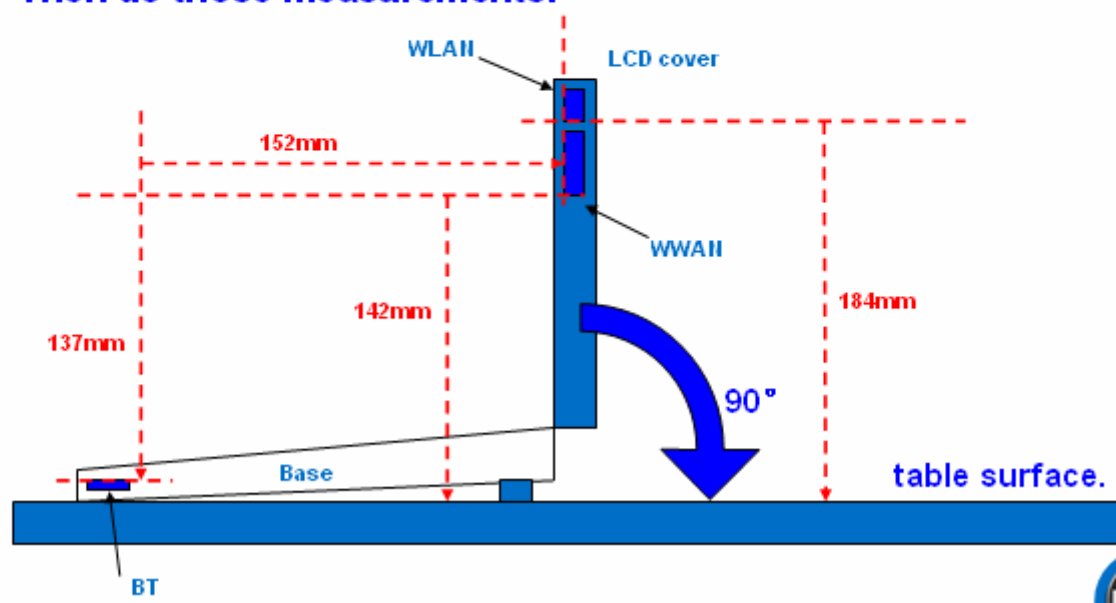
5. Antenna dimensional information for SAR evaluation



6. Diagram of Co-Location Antenna Separation

Please open the LCD lid to 90° , which is perpendicular to the table surface.

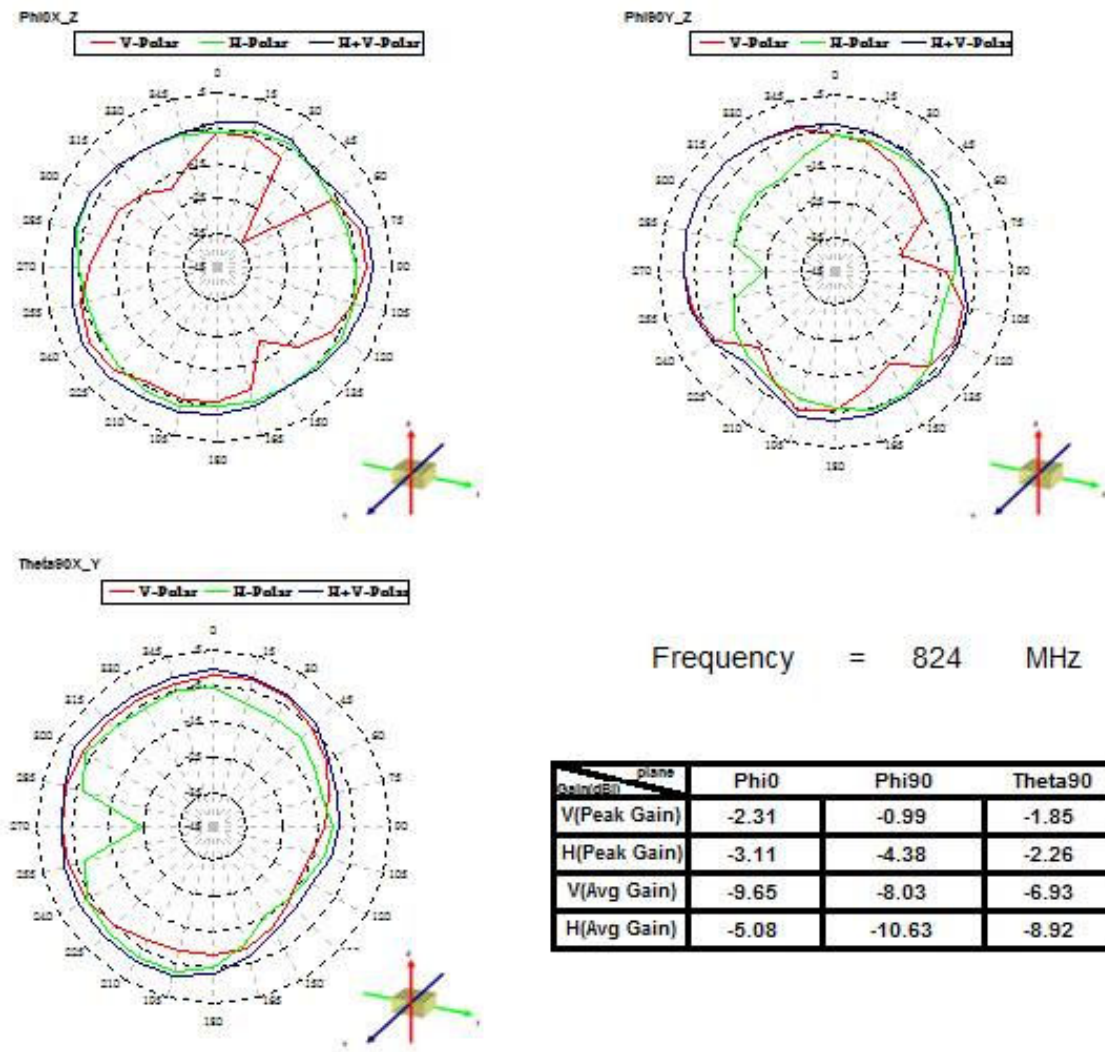
Then do those measurements.



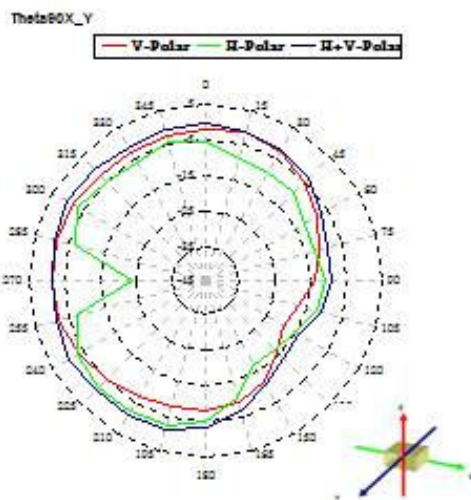
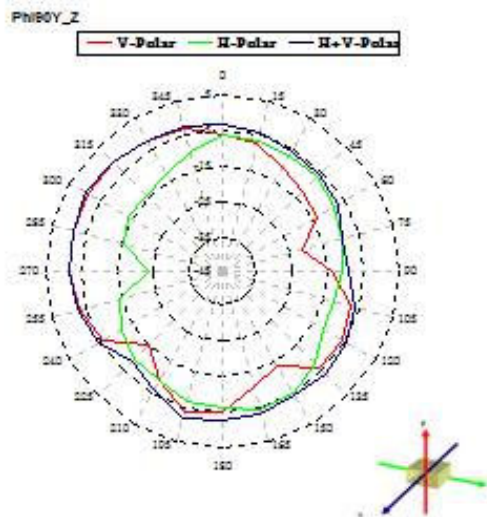
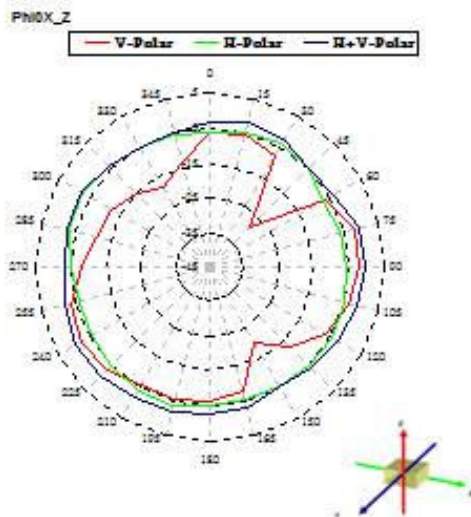
7. Gain Patterns

Main Antenna

824 MHz



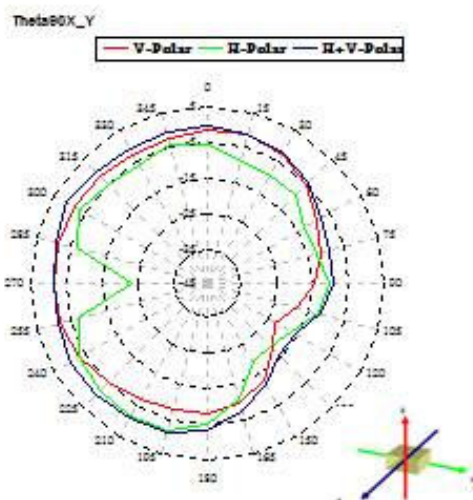
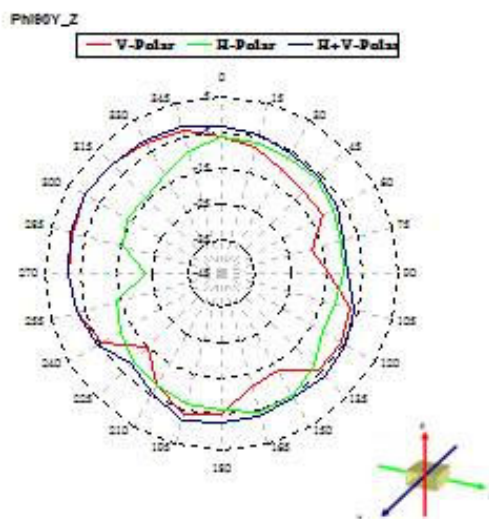
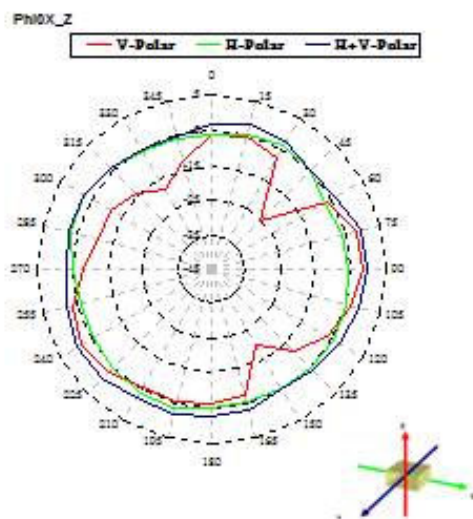
830 MHz



Frequency = 830 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.01	-0.75	-1.62
H(Peak Gain)	-3.01	-4.31	-1.95
V(Avg Gain)	-9.12	-7.69	-7.15
H(Avg Gain)	-5.10	-10.42	-9.08

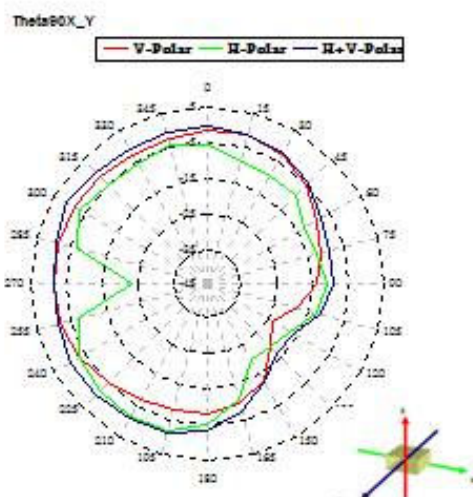
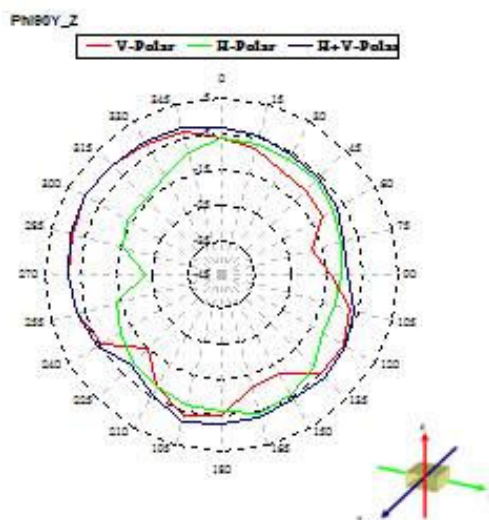
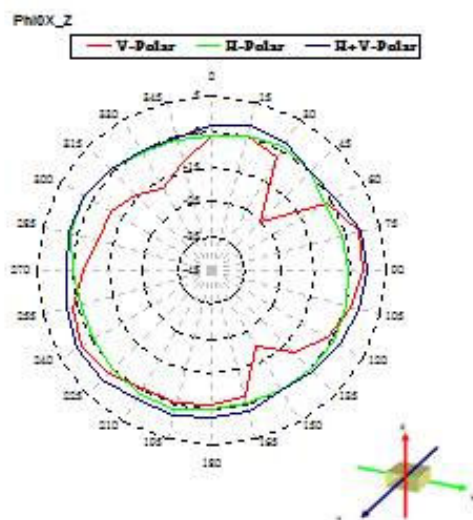
835 MHz



Frequency = 835 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.82	-0.65	-1.48
H(Peak Gain)	-3.06	-4.27	-1.73
V(Avg Gain)	-8.78	-7.48	-7.49
H(Avg Gain)	-5.20	-10.26	-9.31

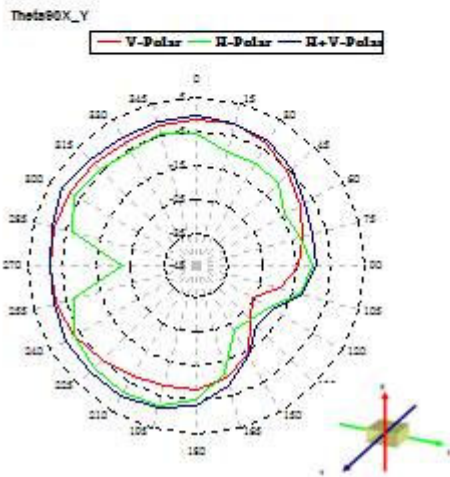
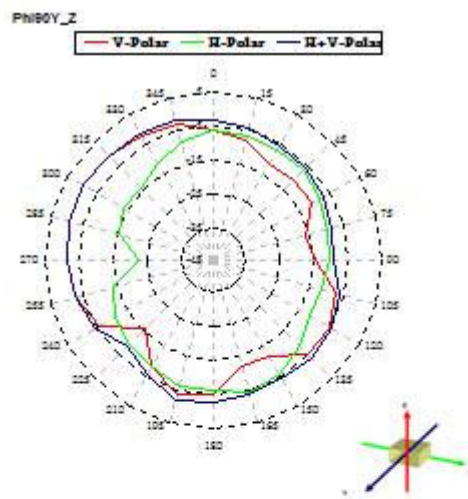
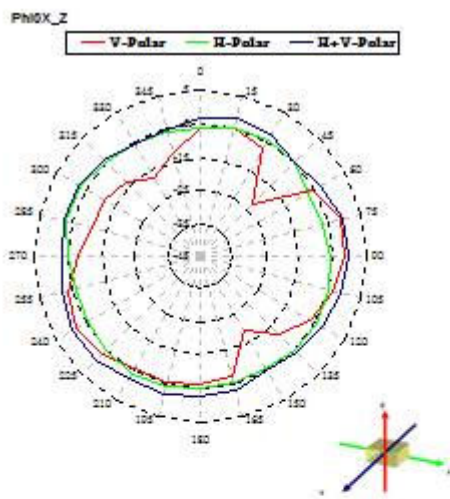
836 MHz



Frequency = 836 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.76	-0.60	-1.43
H(Peak Gain)	-3.07	-4.25	-1.68
V(Avg Gain)	-8.70	-7.41	-7.53
H(Avg Gain)	-5.22	-10.22	-9.38

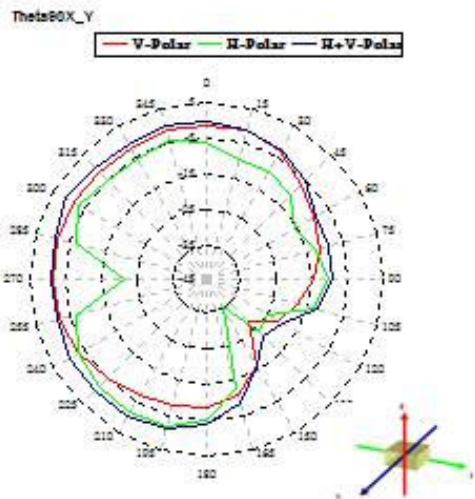
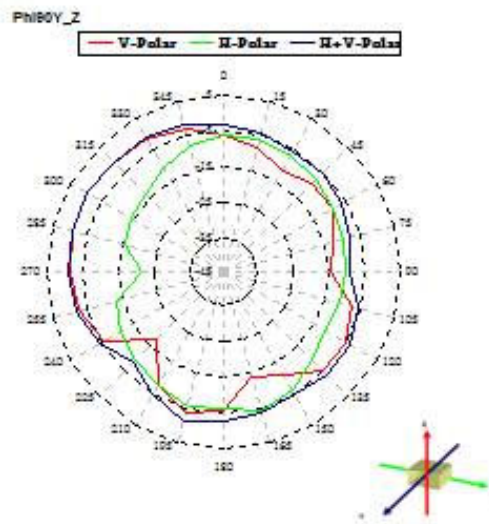
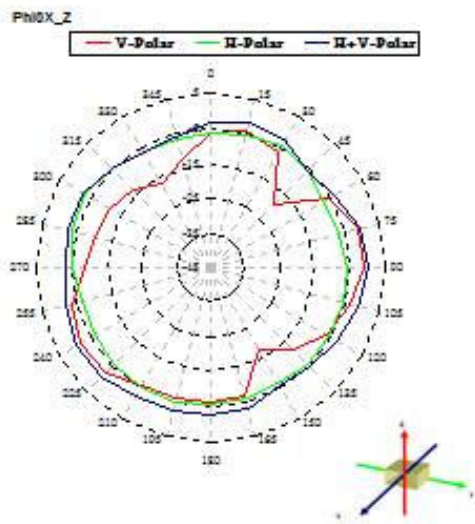
840 MHz



Frequency = 840 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.60	-0.50	-1.34
H(Peak Gain)	-3.14	-4.30	-1.55
V(Avg Gain)	-8.45	-7.27	-7.79
H(Avg Gain)	-5.35	-10.12	-9.71

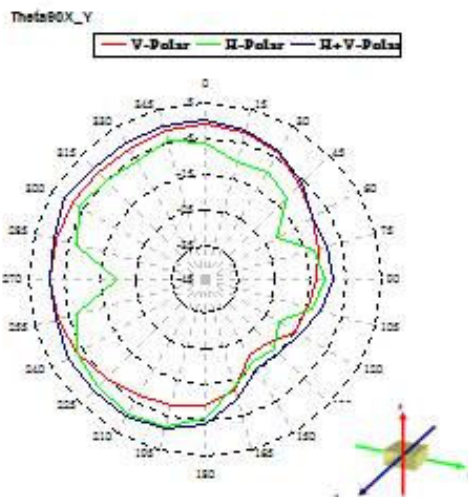
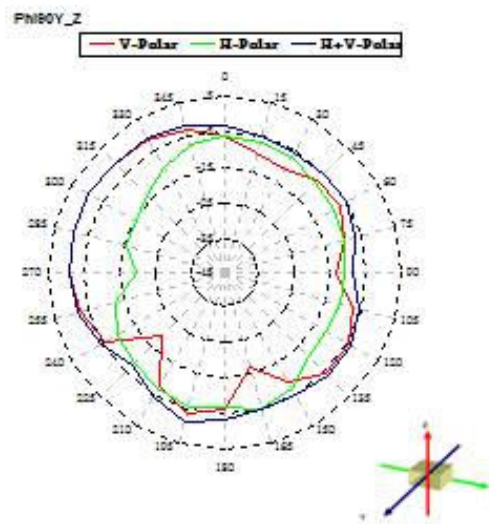
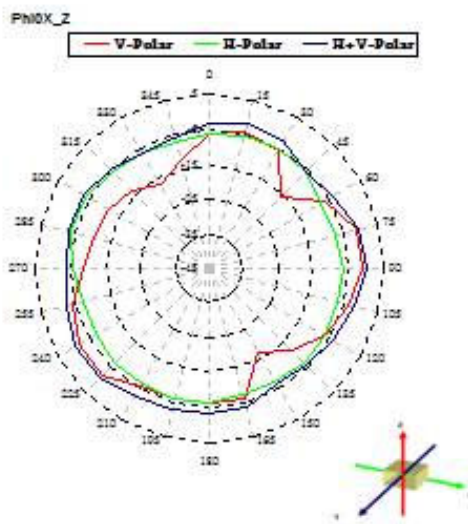
849 MHz



Frequency = 849 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.31	-0.33	-1.20
H(Peak Gain)	-3.54	-4.54	-1.37
V(Avg Gain)	-8.10	-7.02	-7.91
H(Avg Gain)	-5.84	-9.98	-10.71

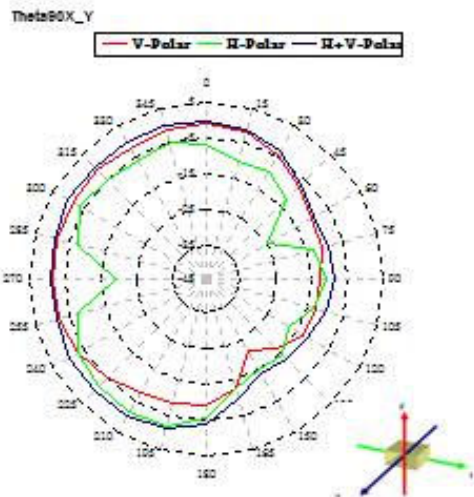
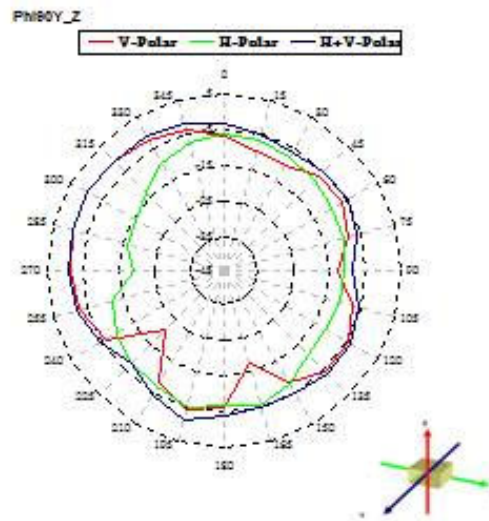
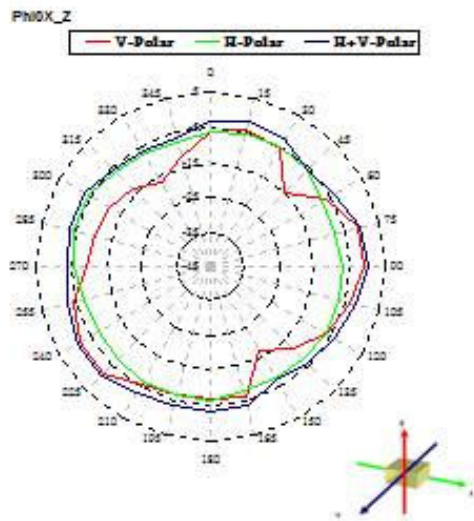
860 MHz



Frequency = 860 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.12	-0.34	-1.12
H(Peak Gain)	-4.12	-5.12	-1.25
V(Avg Gain)	-7.93	-6.85	-7.38
H(Avg Gain)	-6.57	-10.01	-9.85

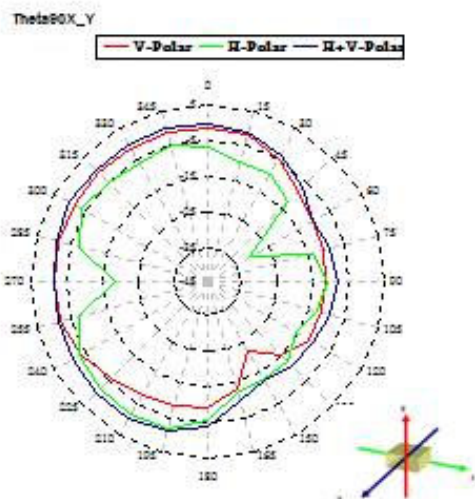
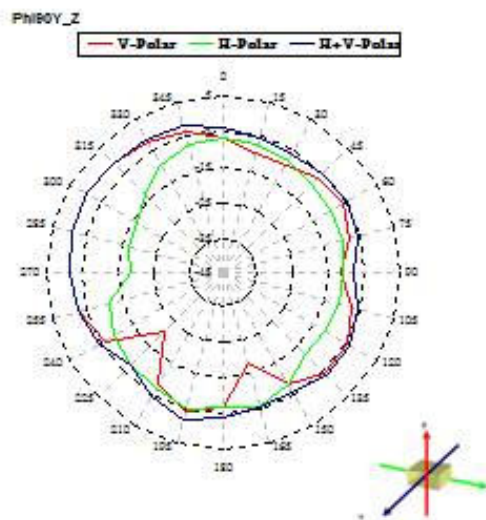
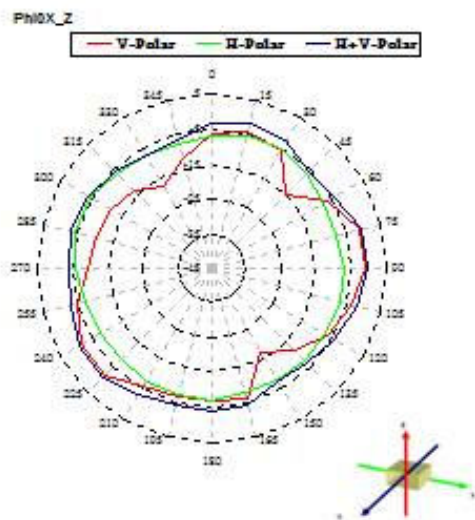
865 MHz



Frequency = 865 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.16	-0.45	-1.16
H(Peak Gain)	-4.34	-5.32	-1.28
V(Avg Gain)	-7.95	-6.82	-7.24
H(Avg Gain)	-6.91	-10.13	-9.68

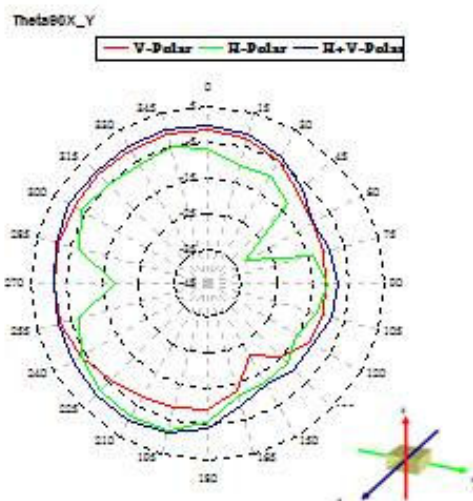
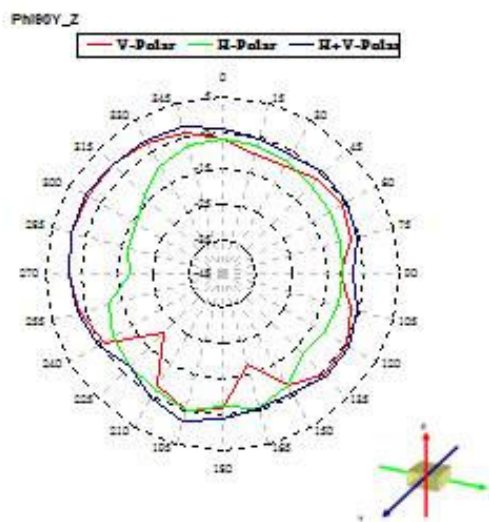
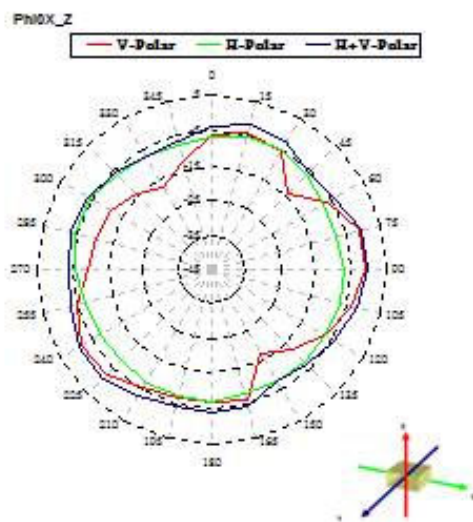
869 MHz



Frequency = 869 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.27	-0.60	-1.26
H(Peak Gain)	-4.41	-5.22	-1.31
V(Avg Gain)	-8.05	-6.78	-7.16
H(Avg Gain)	-7.12	-10.24	-9.70

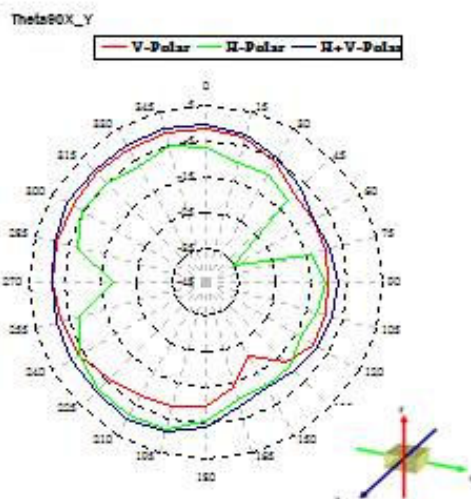
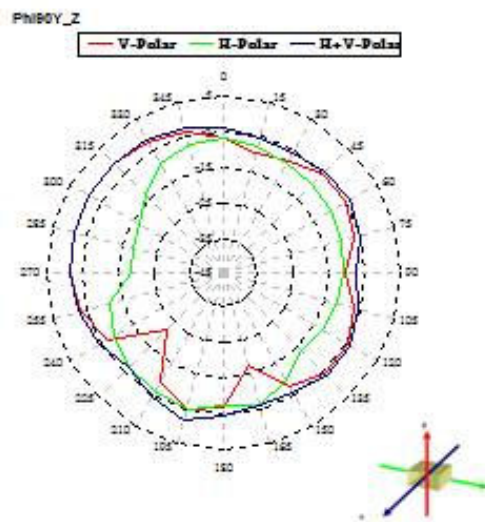
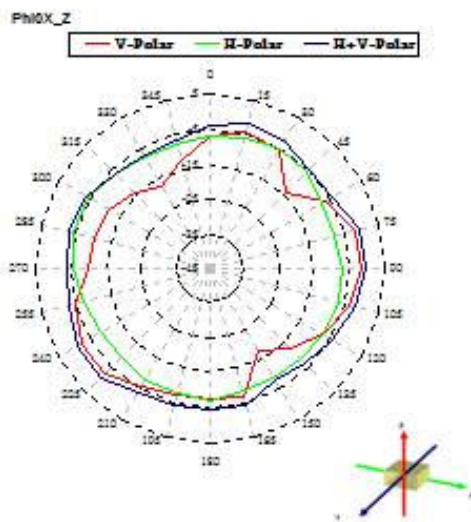
870 MHz



Frequency = 870 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.32	-0.65	-1.27
H(Peak Gain)	-4.47	-5.21	-1.34
V(Avg Gain)	-8.10	-6.79	-7.15
H(Avg Gain)	-7.19	-10.29	-9.73

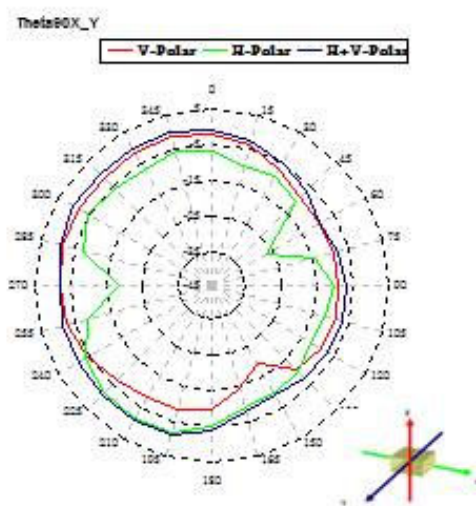
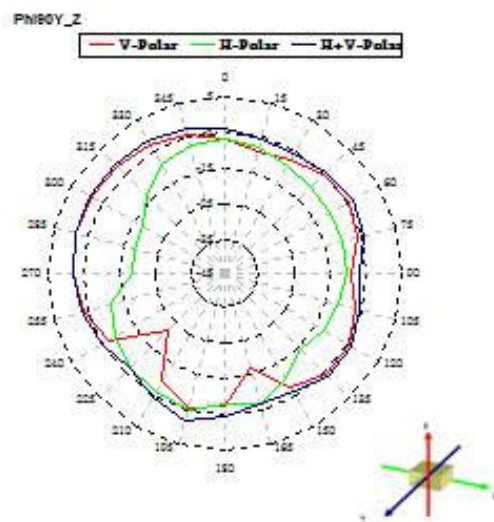
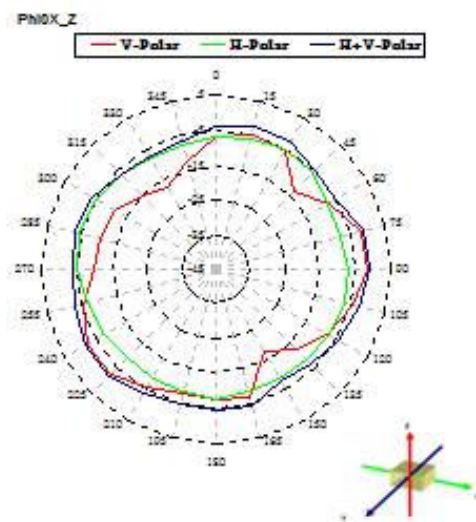
875 MHz



Frequency = 875 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.50	-0.87	-1.22
H(Peak Gain)	-4.49	-5.09	-1.47
V(Avg Gain)	-8.26	-6.71	-7.00
H(Avg Gain)	-7.34	-10.48	-9.62

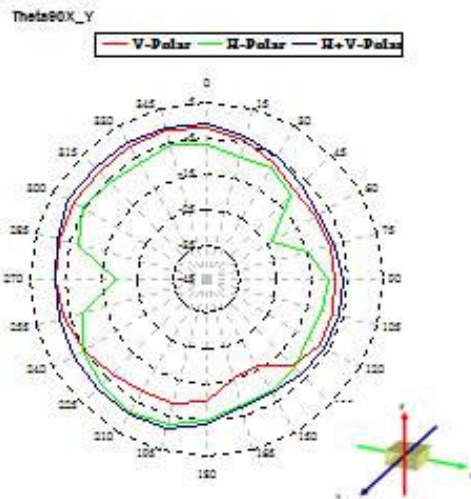
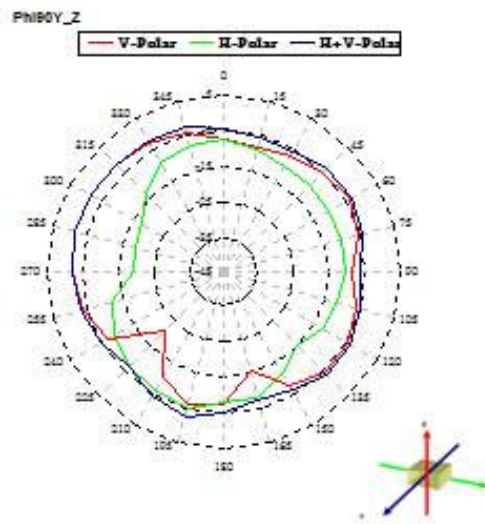
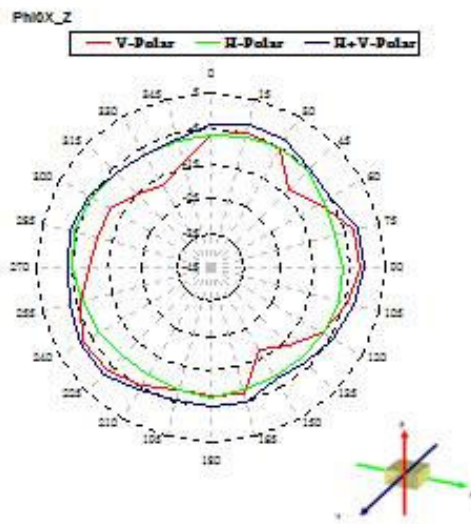
880 MHz



Frequency = 880 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.90	-1.18	-1.34
H(Peak Gain)	-4.47	-5.06	-1.64
V(Avg Gain)	-8.54	-6.65	-6.91
H(Avg Gain)	-7.40	-10.73	-9.07

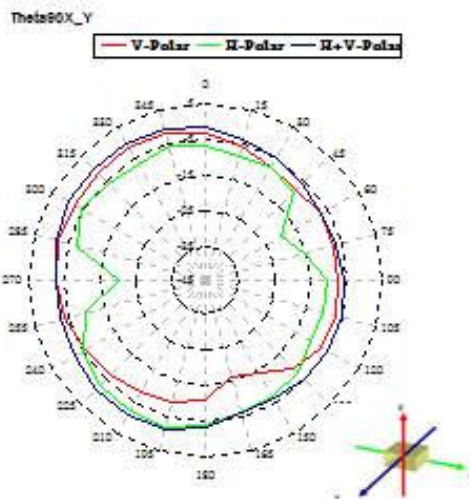
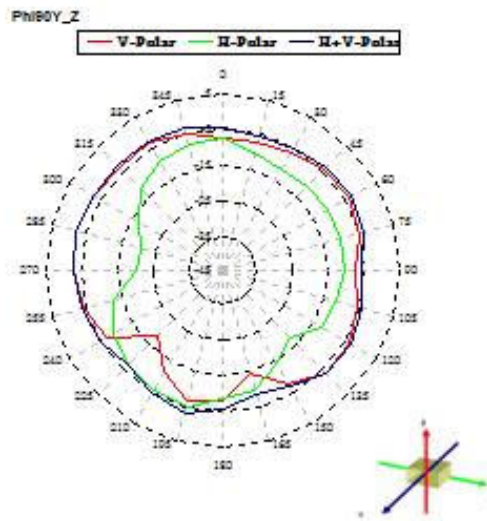
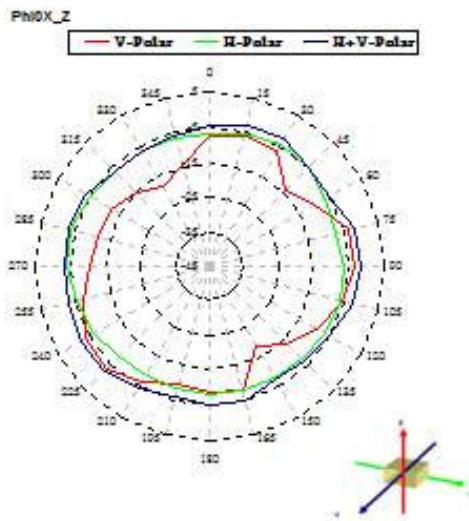
885 MHz



Frequency = 885 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.33	-1.54	-1.47
H(Peak Gain)	-4.35	-5.09	-1.82
V(Avg Gain)	-8.88	-6.58	-6.80
H(Avg Gain)	-7.34	-11.04	-8.78

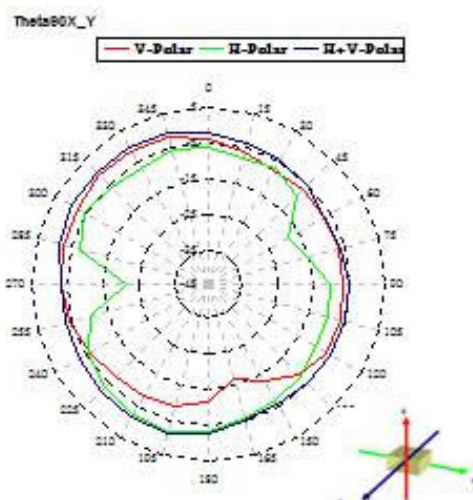
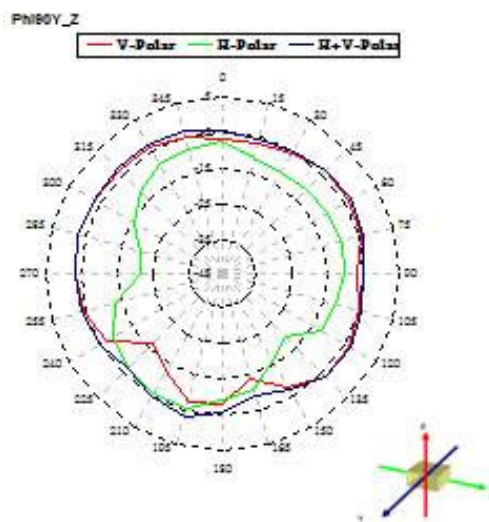
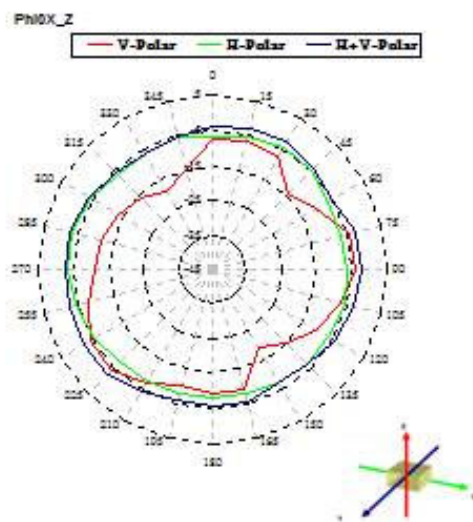
894 MHz



Frequency = 894 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-3.32	-2.24	-1.58
H(Peak Gain)	-3.86	-5.31	-2.07
V(Avg Gain)	-9.71	-6.46	-6.72
H(Avg Gain)	-6.77	-11.60	-8.34

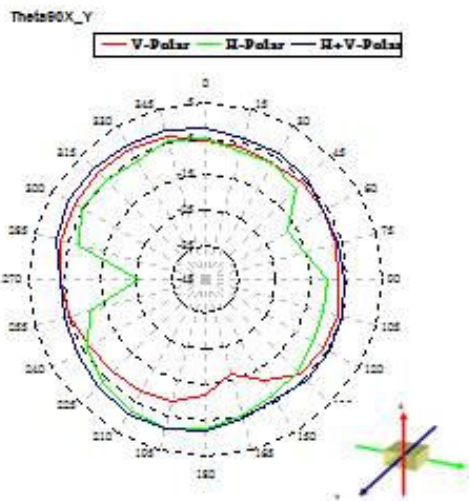
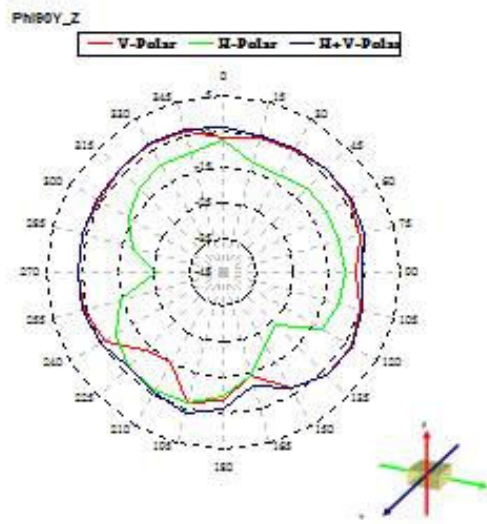
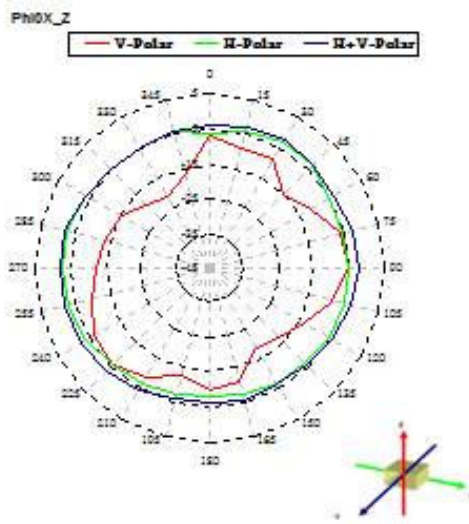
900 MHz



Frequency = 900 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.11	-2.79	-1.68
H(Peak Gain)	-3.45	-5.60	-2.14
V(Avg Gain)	-10.40	-6.40	-6.69
H(Avg Gain)	-6.26	-11.99	-8.17

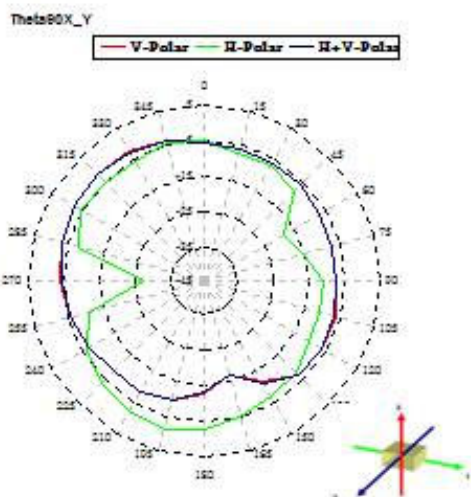
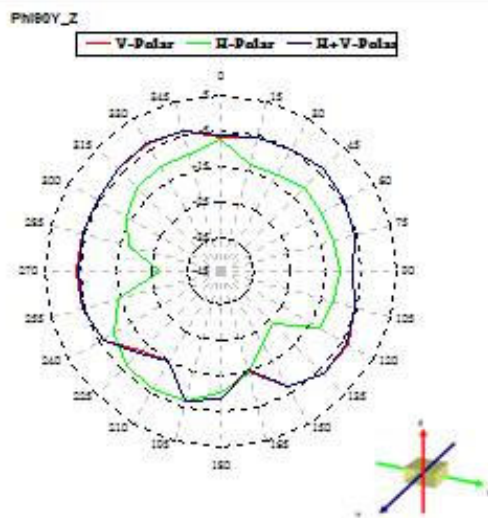
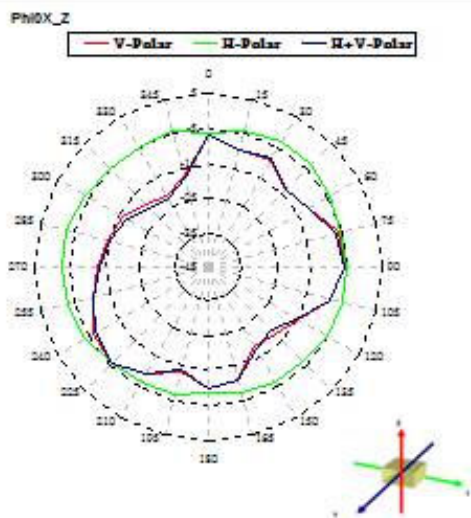
915 MHz



Frequency = 915 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-5.51	-3.40	-1.86
H(Peak Gain)	-2.76	-6.35	-1.60
V(Avg Gain)	-11.97	-6.35	-6.75
H(Avg Gain)	-5.32	-12.81	-8.12

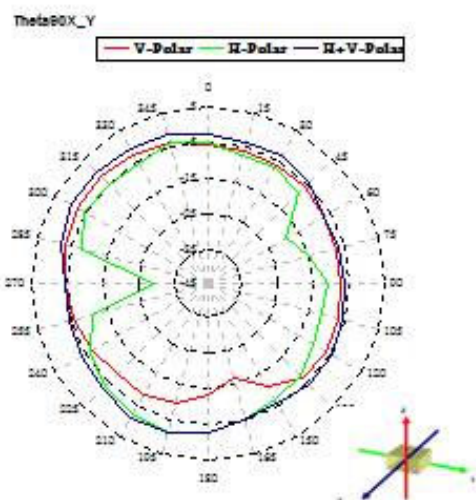
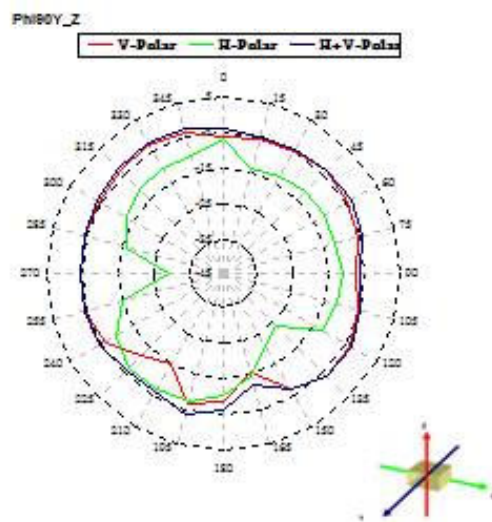
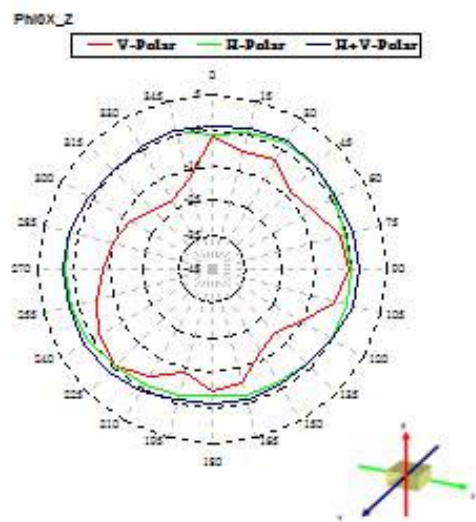
920 MHz



Frequency = 920 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-5.78	-3.20	-1.95
H(Peak Gain)	-2.73	-6.52	-1.54
V(Avg Gain)	-12.39	-6.35	-6.88
H(Avg Gain)	-5.22	-12.99	-8.25

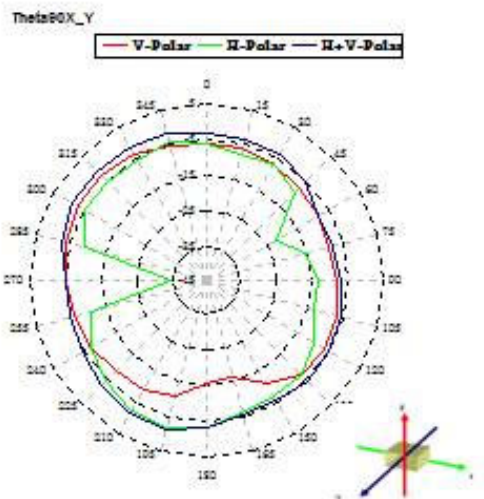
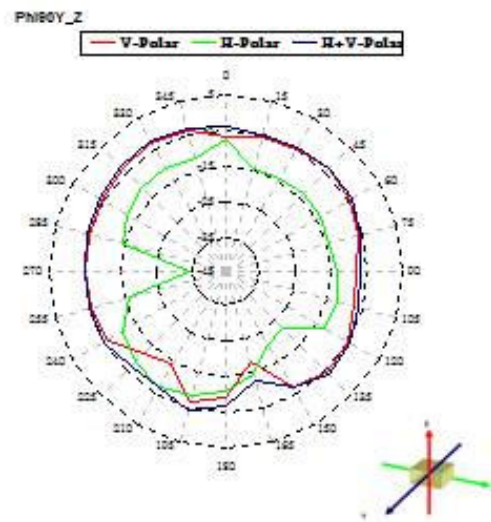
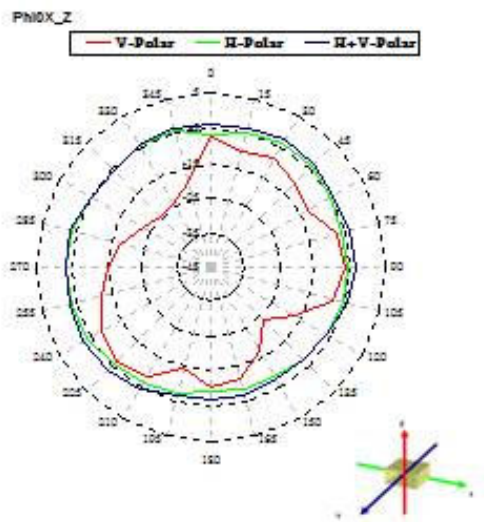
925 MHz



Frequency = 925 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-5.90	-2.97	-2.11
H(Peak Gain)	-2.81	-6.66	-1.55
V(Avg Gain)	-12.72	-6.37	-7.01
H(Avg Gain)	-5.23	-13.15	-8.43

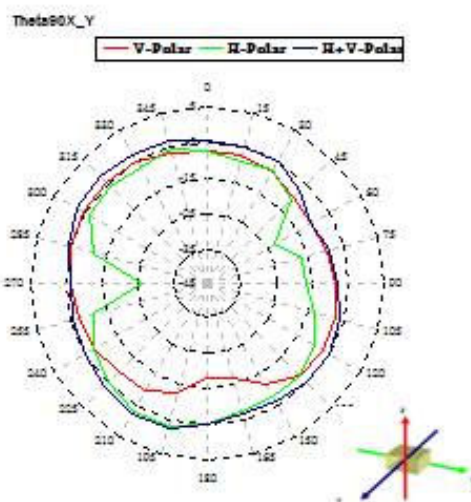
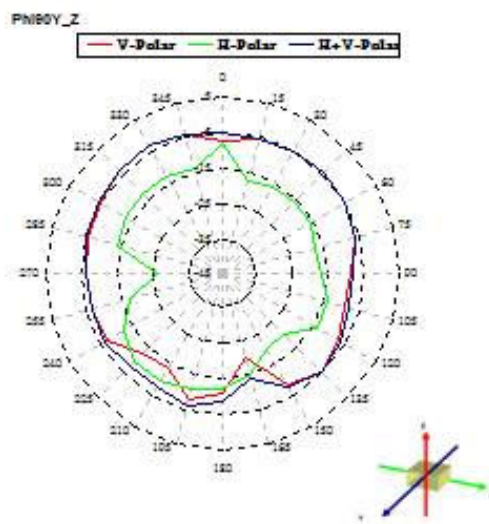
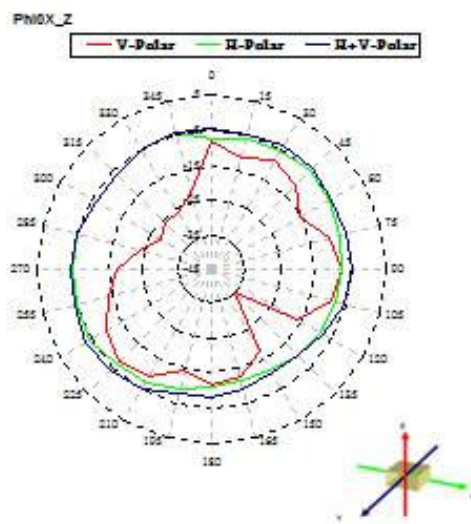
940 MHz



Frequency = 940 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.39	-2.90	-2.89
H(Peak Gain)	-3.61	-7.42	-2.14
V(Avg Gain)	-13.88	-6.77	-7.70
H(Avg Gain)	-5.88	-13.94	-9.28

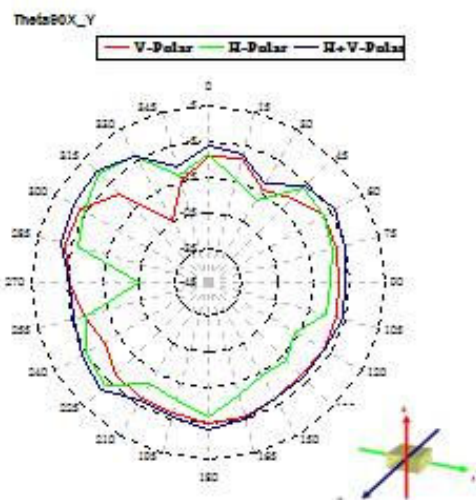
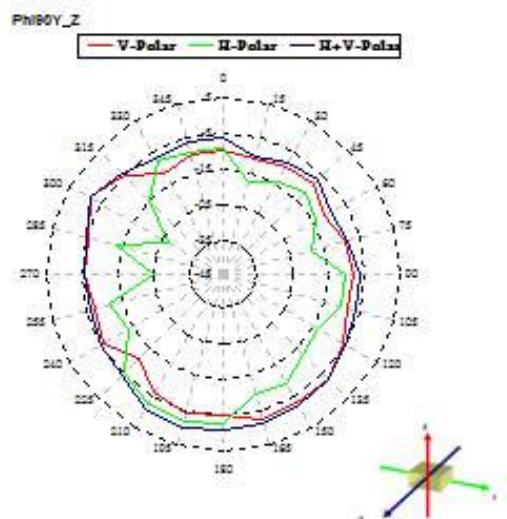
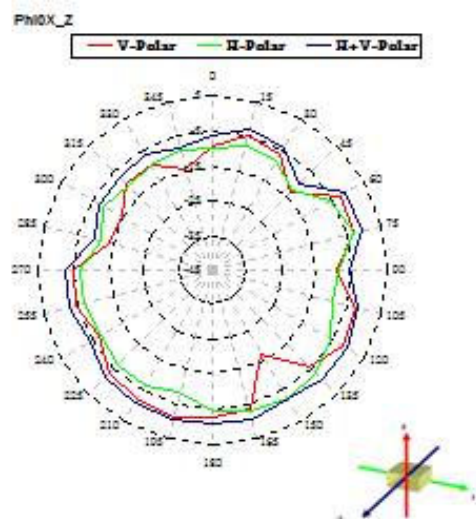
960 MHz



Frequency = 960 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-7.44	-3.59	-4.27
H(Peak Gain)	-4.82	-8.14	-3.31
V(Avg Gain)	-15.76	-7.74	-8.93
H(Avg Gain)	-7.28	-15.10	-9.96

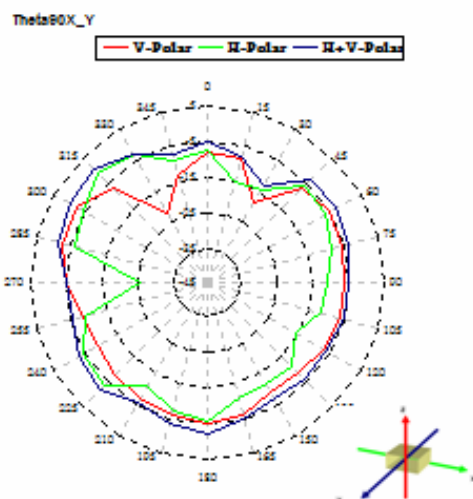
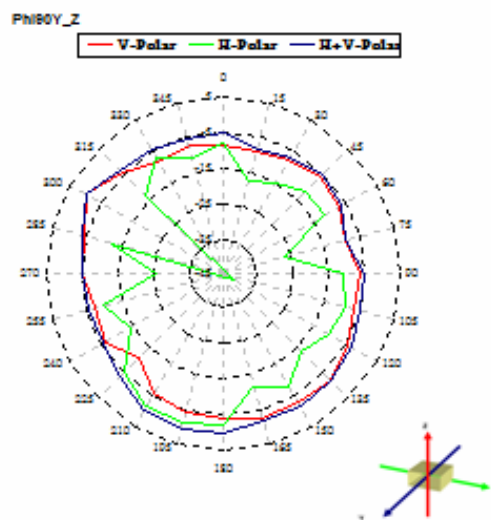
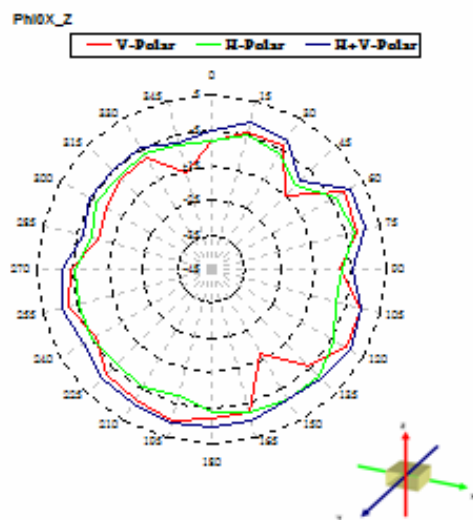
1710 MHz



Frequency = 1710 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-1.44	-1.36	-3.42
H(Peak Gain)	-2.35	-1.94	-1.16
V(Avg Gain)	-7.22	-7.14	-8.88
H(Avg Gain)	-7.60	-12.14	-10.20

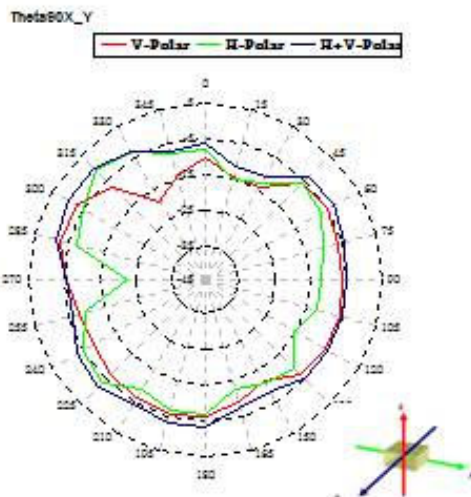
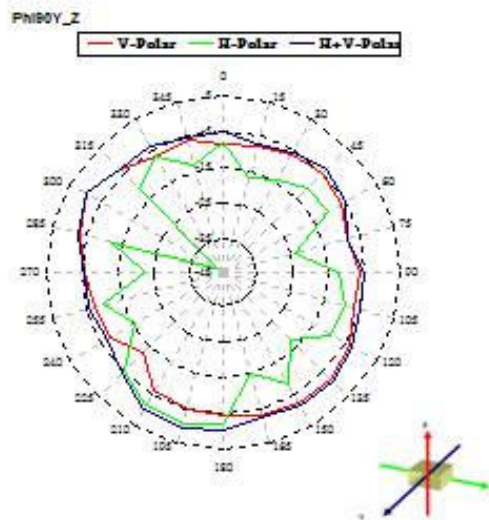
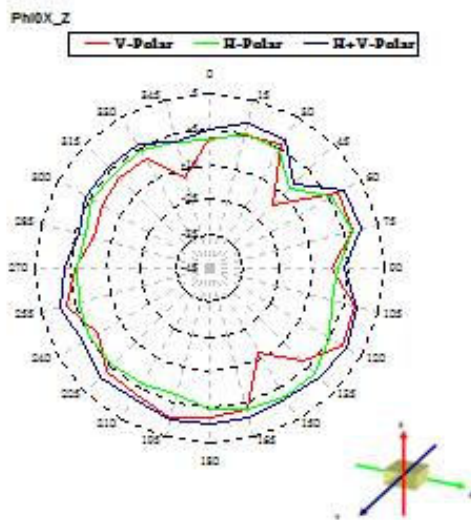
1750 MHz



Frequency = 1750 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-0.03	-0.62	-2.33
H(Peak Gain)	-1.44	-0.74	-0.68
V(Avg Gain)	-6.06	-6.06	-8.14
H(Avg Gain)	-6.00	-12.81	-9.35

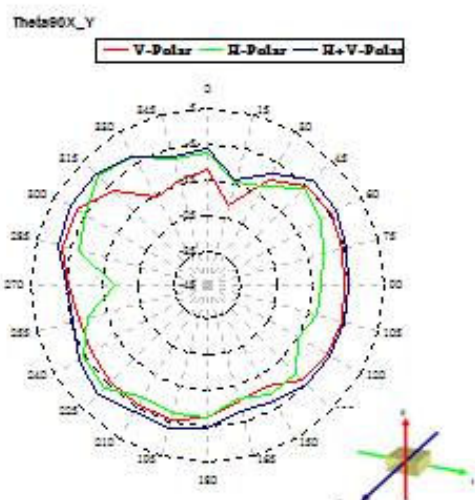
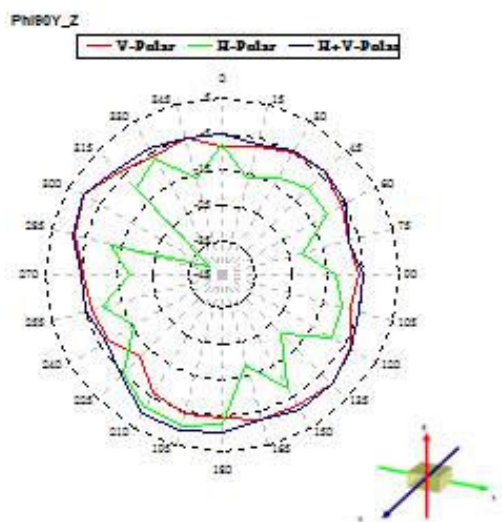
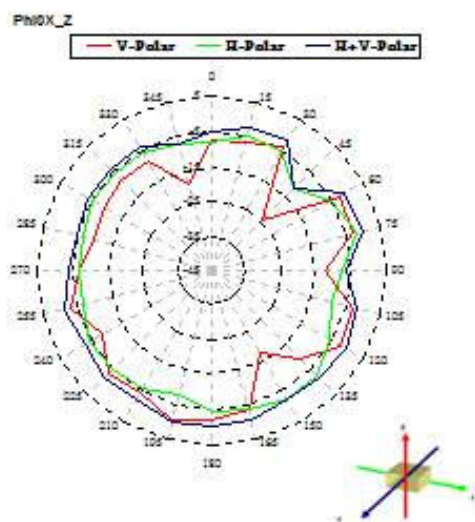
1785 MHz



Frequency = 1785 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-0.36	-0.13	-2.50
H(Peak Gain)	-1.98	-0.53	-0.94
V(Avg Gain)	-6.94	-5.74	-8.28
H(Avg Gain)	-6.09	-12.78	-9.41

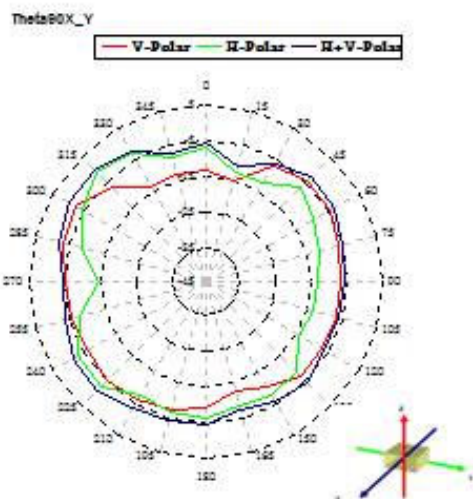
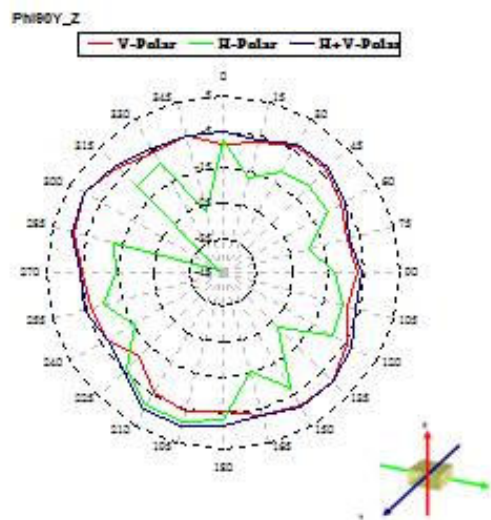
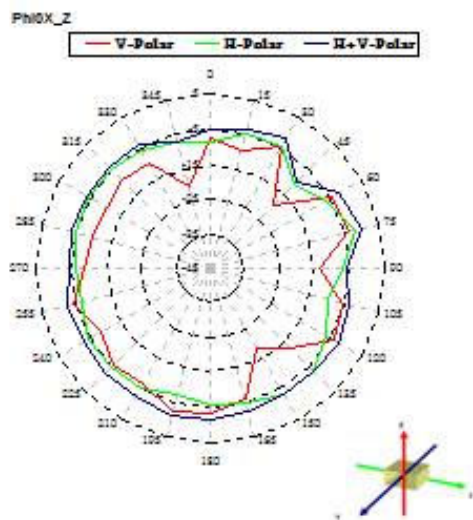
1805 MHz



Frequency = 1805 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-0.87	0.28	-2.34
H(Peak Gain)	-2.35	-0.61	-1.04
V(Avg Gain)	-7.73	-5.35	-8.22
H(Avg Gain)	-6.05	-12.65	-9.04

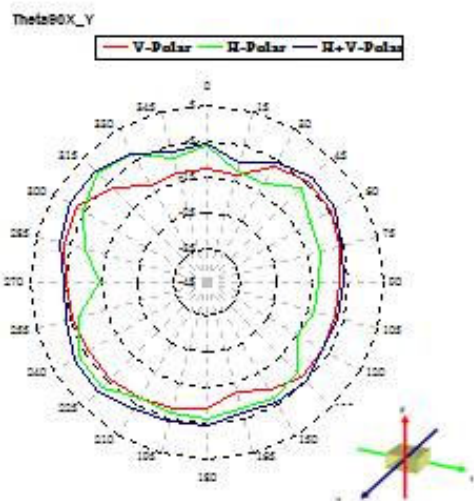
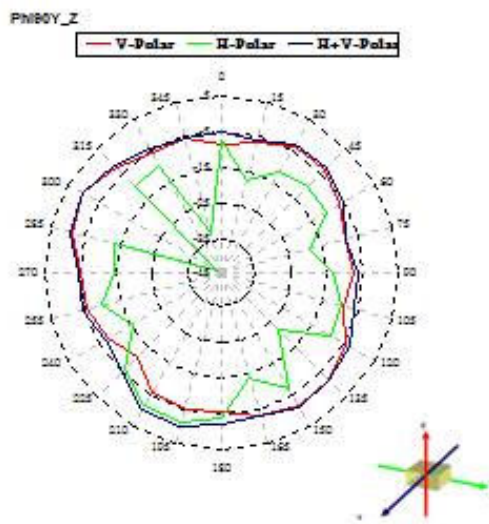
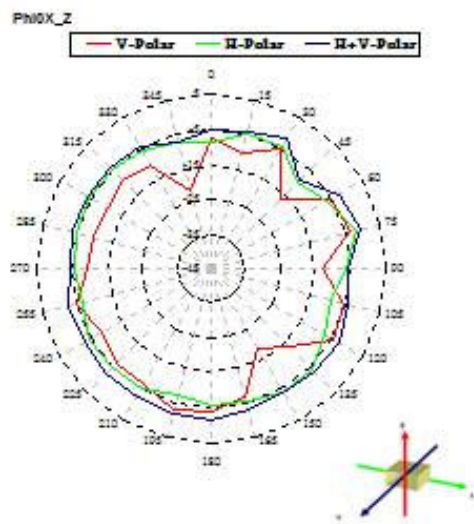
1840 MHz



Frequency = 1840 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.94	0.39	-2.29
H(Peak Gain)	-2.25	-1.43	-1.13
V(Avg Gain)	-8.86	-5.20	-7.77
H(Avg Gain)	-6.03	-13.02	-8.50

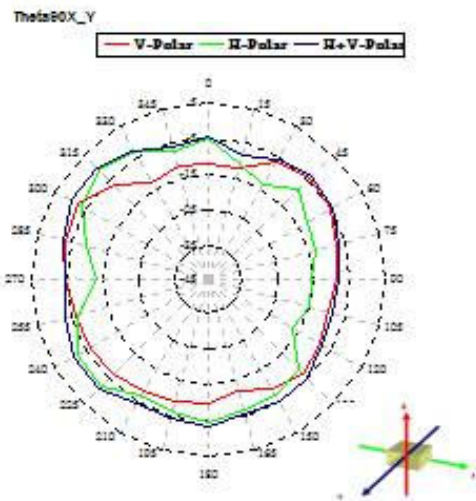
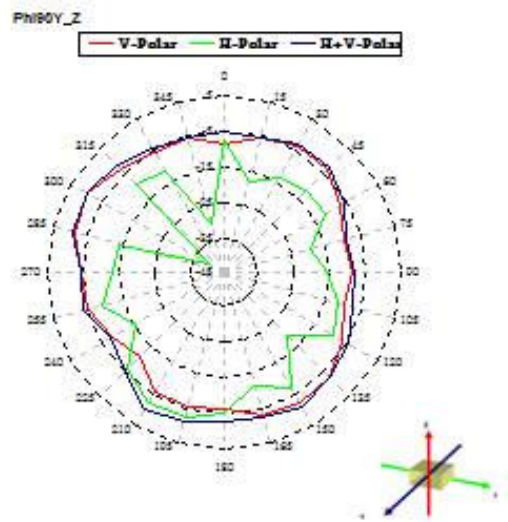
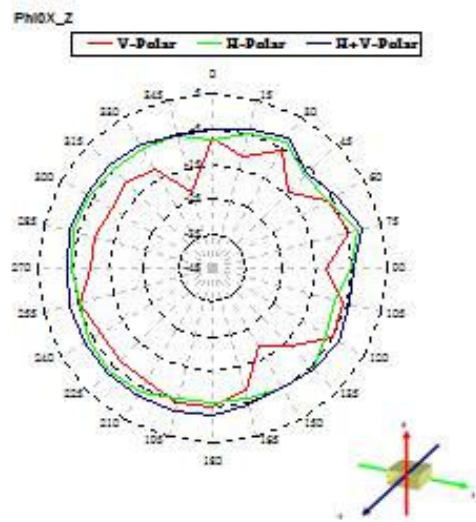
1850 MHz



Frequency = 1850 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-3.71	0.26	-2.37
H(Peak Gain)	-2.28	-1.62	-1.25
V(Avg Gain)	-9.17	-5.36	-7.79
H(Avg Gain)	-6.04	-13.32	-8.51

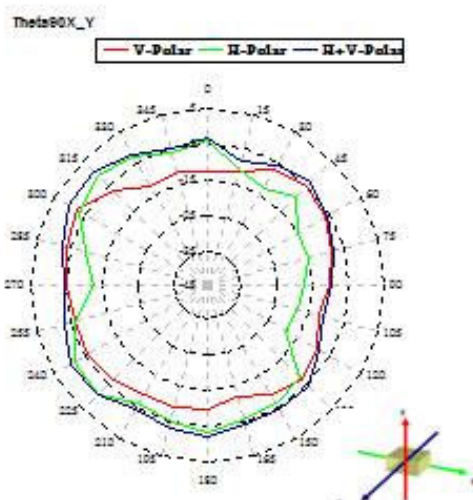
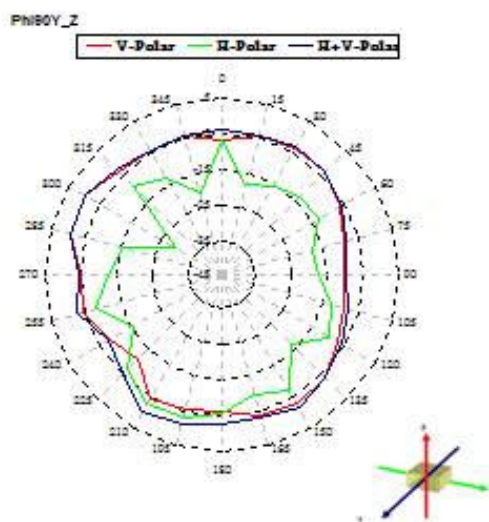
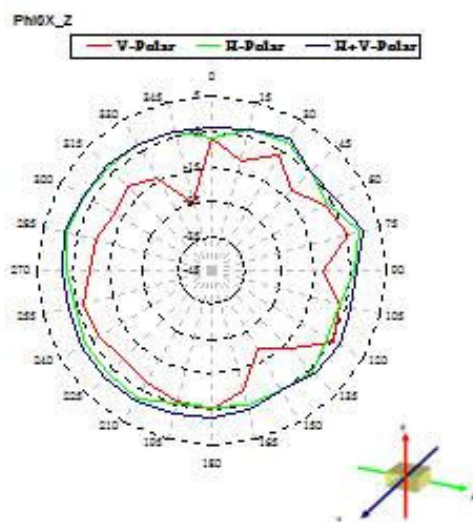
1880 MHz



Frequency = 1880 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.76	-0.06	-2.36
H(Peak Gain)	-2.12	-2.00	-1.26
V(Avg Gain)	-9.77	-5.61	-8.07
H(Avg Gain)	-5.46	-13.45	-8.60

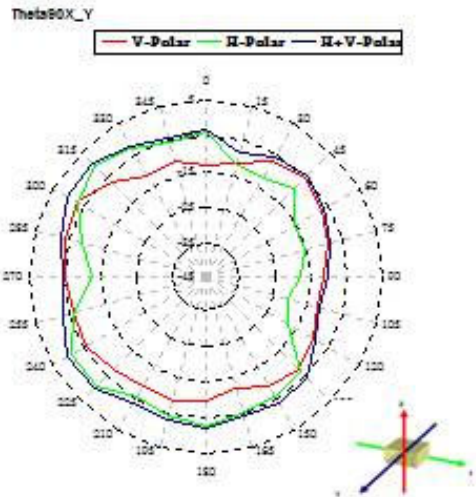
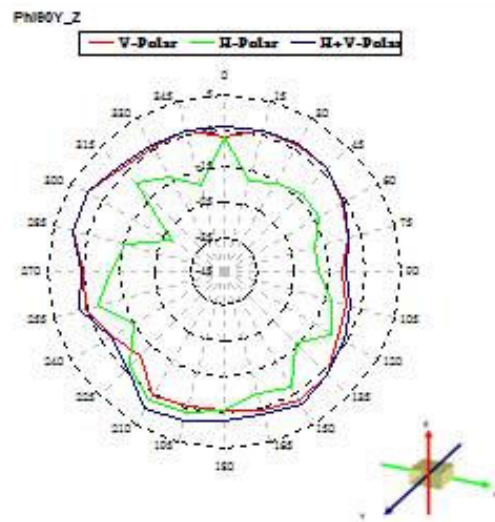
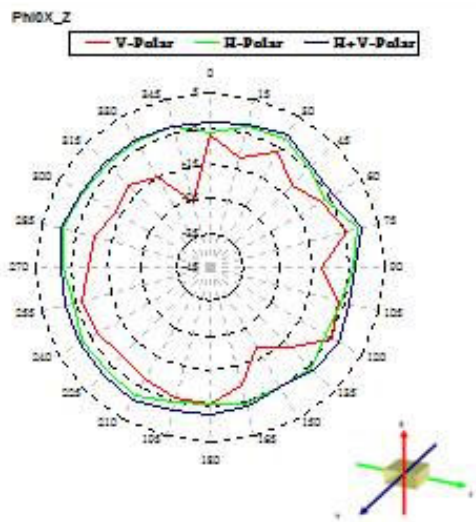
1910 MHz



Frequency = 1910 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.77	-0.18	-2.42
H(Peak Gain)	-1.61	-2.45	-0.73
V(Avg Gain)	-10.23	-5.54	-8.54
H(Avg Gain)	-4.31	-12.83	-8.53

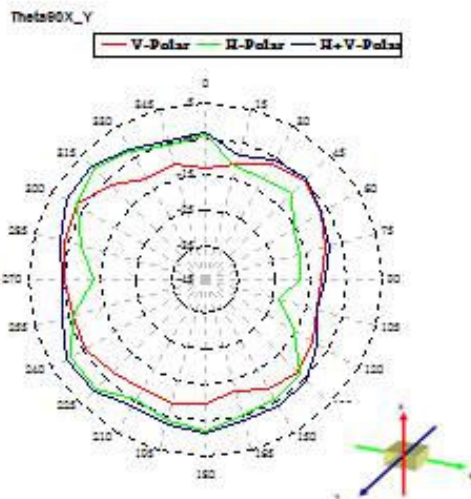
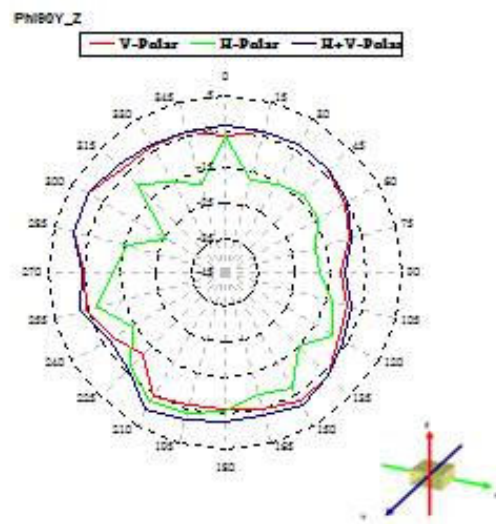
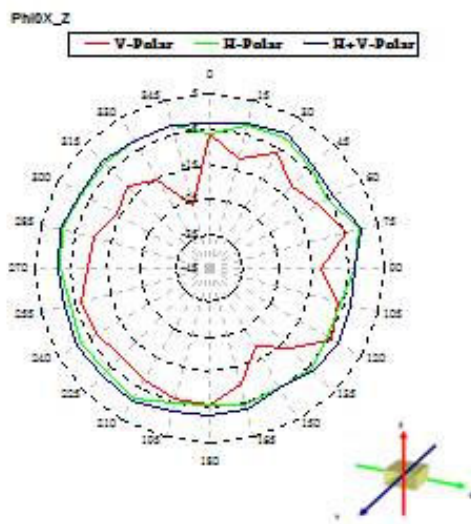
1920 MHz



Frequency = 1920 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.73	-0.23	-2.61
H(Peak Gain)	-1.46	-2.58	-0.56
V(Avg Gain)	-10.35	-5.51	-8.62
H(Avg Gain)	-3.96	-12.72	-8.43

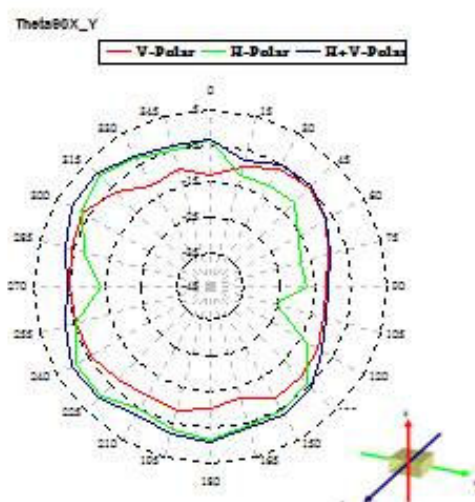
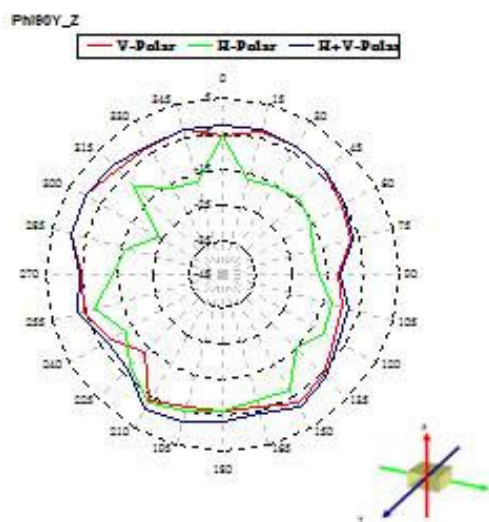
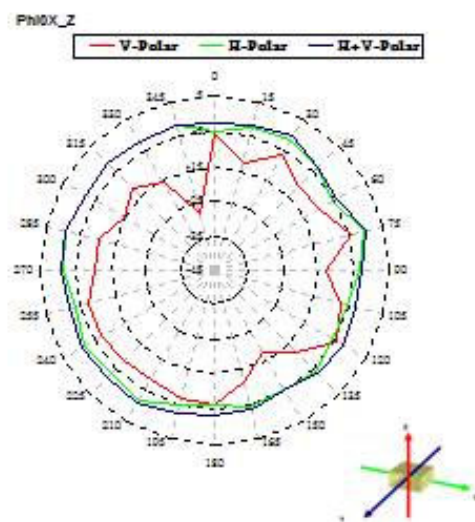
1930 MHz



Frequency = 1930 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.64	-0.31	-2.77
H(Peak Gain)	-1.31	-2.90	-0.46
V(Avg Gain)	-10.52	-5.51	-8.70
H(Avg Gain)	-3.70	-12.67	-8.36

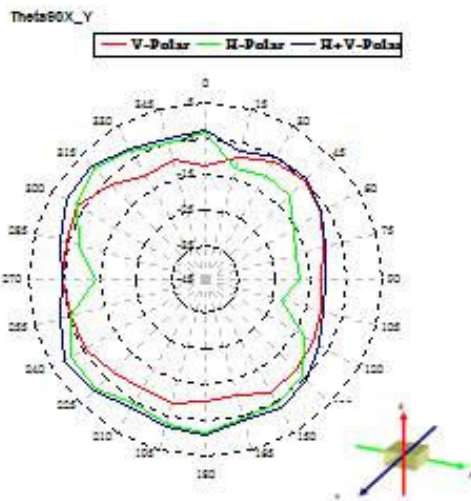
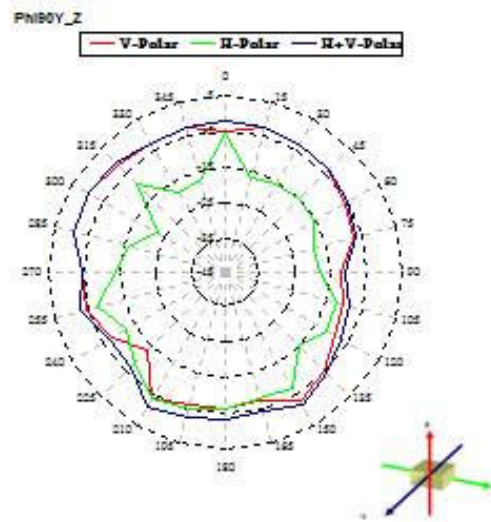
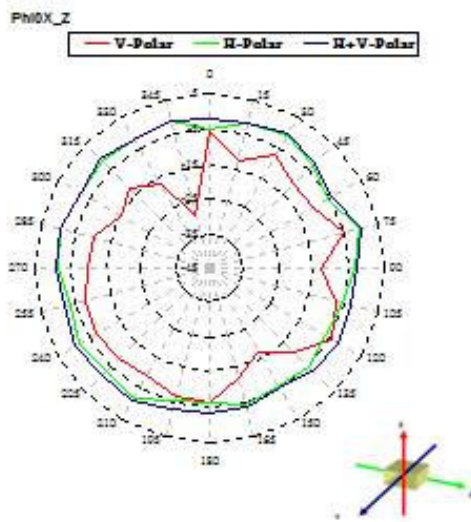
1950 MHz



Frequency = 1950 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.78	-0.29	-3.06
H(Peak Gain)	-0.89	-3.53	-0.39
V(Avg Gain)	-10.78	-5.46	-8.58
H(Avg Gain)	-3.42	-12.68	-8.15

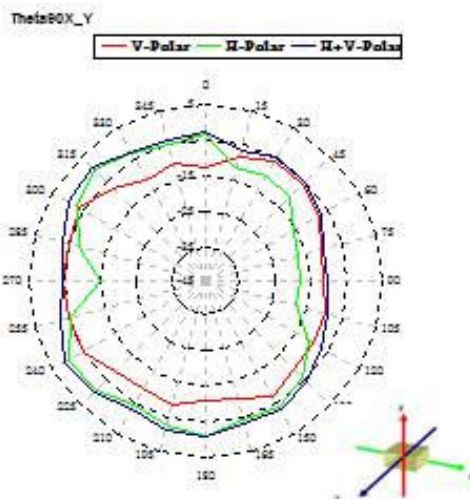
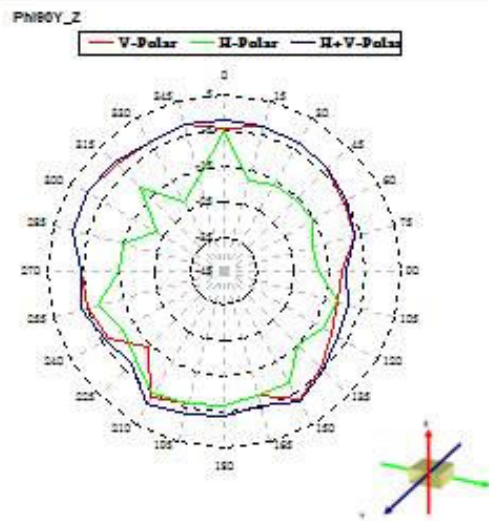
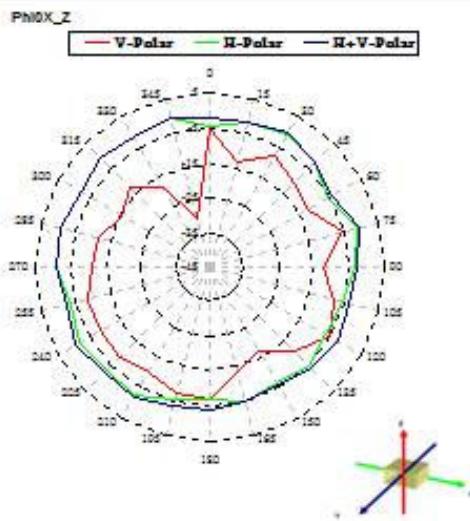
1960 MHz



Frequency = 1960 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.90	-0.34	-3.37
H(Peak Gain)	-0.81	-3.96	-0.41
V(Avg Gain)	-10.93	-5.49	-8.46
H(Avg Gain)	-3.38	-12.83	-7.94

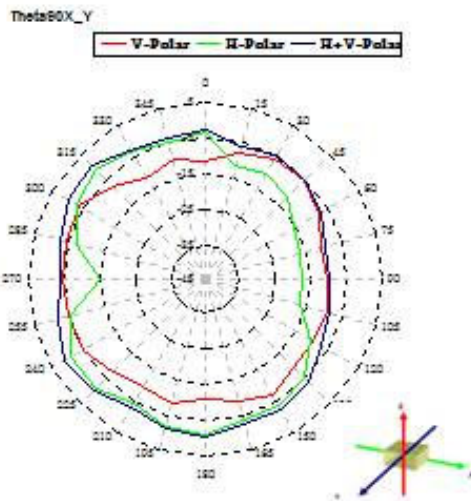
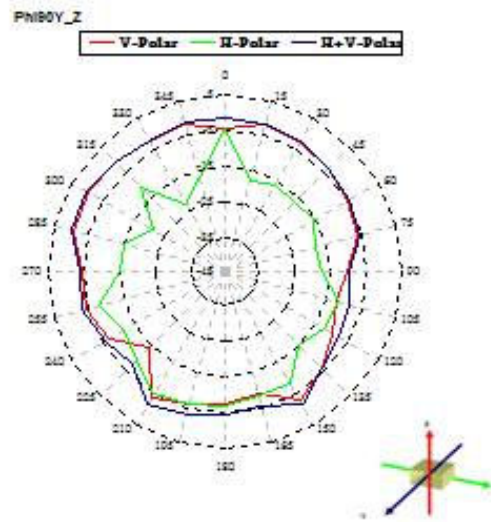
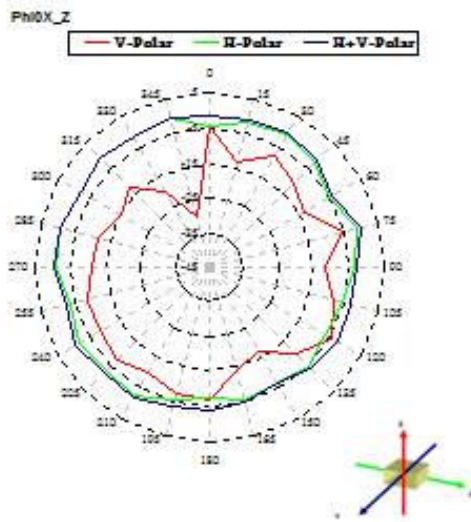
1980 MHz



Frequency = 1980 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-5.15	-0.43	-4.01
H(Peak Gain)	-0.87	-4.84	-0.64
V(Avg Gain)	-11.52	-5.64	-8.52
H(Avg Gain)	-3.50	-13.28	-7.68

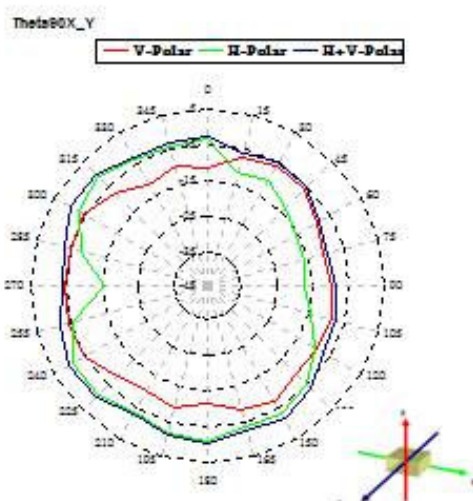
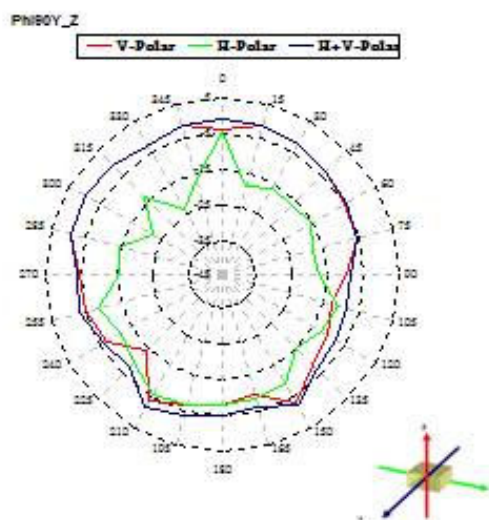
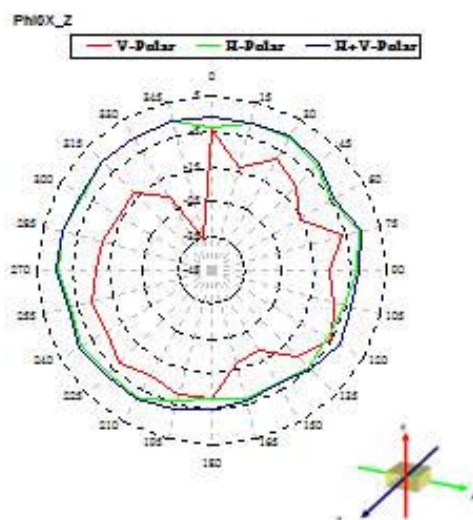
1990 MHz



Frequency = 1990 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.75	-0.08	-3.96
H(Peak Gain)	-0.78	-4.76	-0.66
V(Avg Gain)	-11.39	-5.32	-8.14
H(Avg Gain)	-3.42	-13.25	-7.45

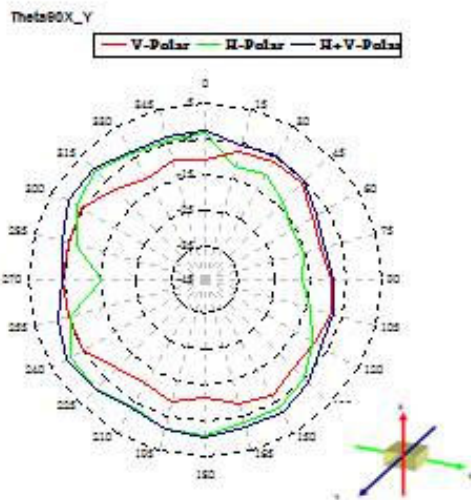
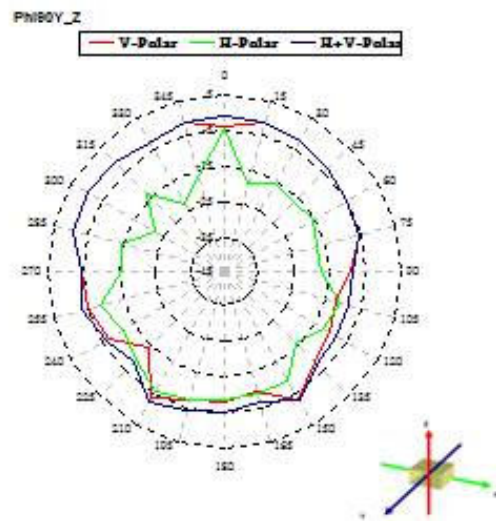
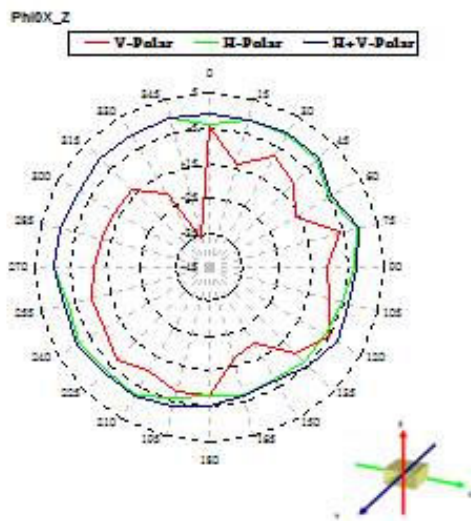
2010 MHz



Frequency = 2010 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.50	-0.29	-4.49
H(Peak Gain)	-0.57	-4.50	-0.78
V(Avg Gain)	-12.22	-5.52	-8.29
H(Avg Gain)	-3.51	-13.53	-7.36

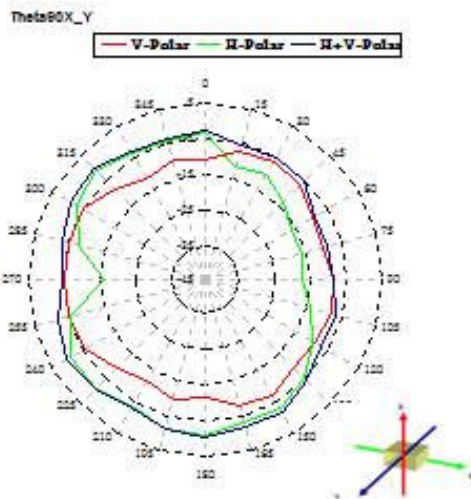
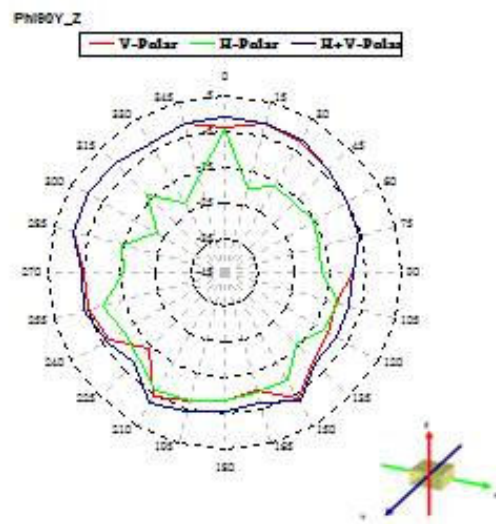
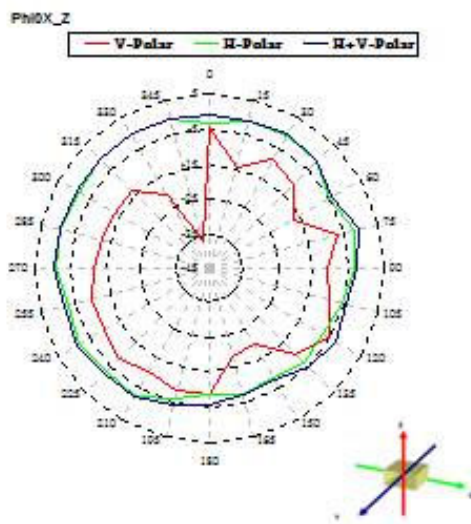
2018 MHz



Frequency = 2018 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.40	-0.38	-4.75
H(Peak Gain)	-0.38	-4.40	-0.68
V(Avg Gain)	-12.44	-5.62	-8.39
H(Avg Gain)	-3.50	-13.59	-7.35

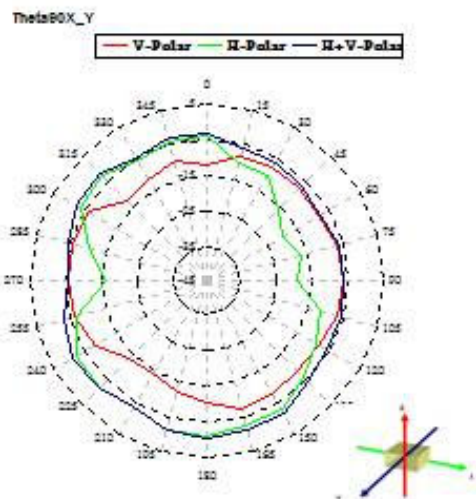
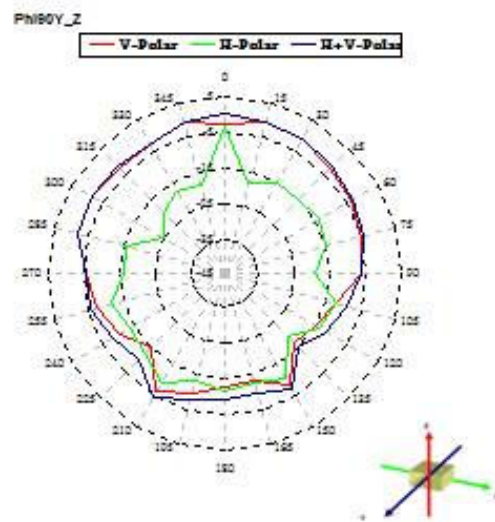
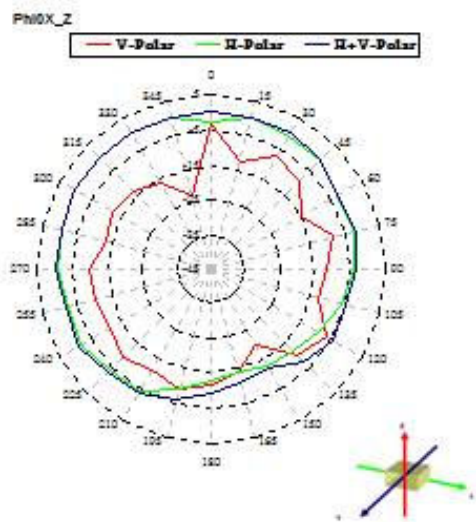
2025 MHz



Frequency = 2025 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-4.37	-0.50	-4.87
H(Peak Gain)	-0.27	-4.37	-0.76
V(Avg Gain)	-12.69	-5.74	-8.46
H(Avg Gain)	-3.61	-13.80	-7.44

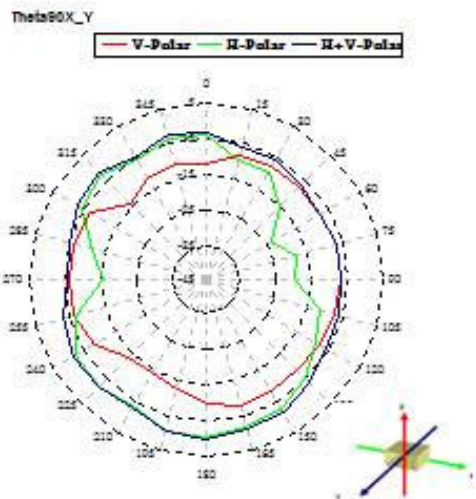
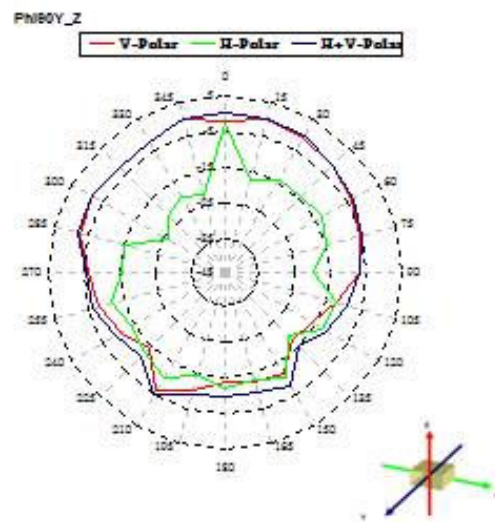
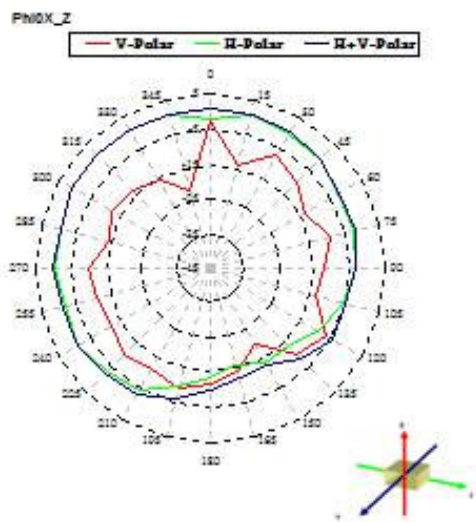
2110 MHz



Frequency = 2110 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-3.35	-0.19	-5.76
H(Peak Gain)	0.37	-3.35	-0.95
V(Avg Gain)	-12.04	-6.90	-9.04
H(Avg Gain)	-4.44	-15.00	-7.95

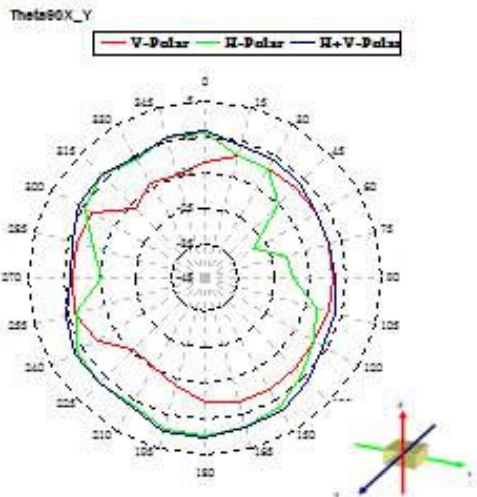
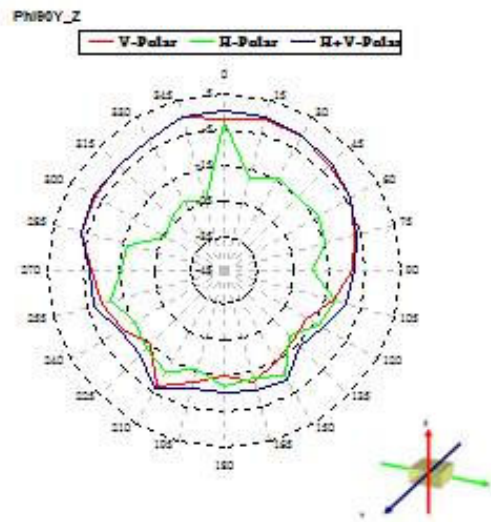
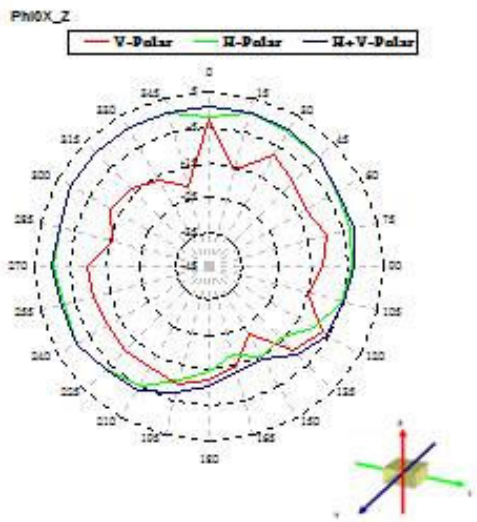
2140 MHz



Frequency = 2140 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.87	0.23	-6.21
H(Peak Gain)	0.86	-2.87	-0.31
V(Avg Gain)	-12.13	-7.25	-9.39
H(Avg Gain)	-4.25	-15.25	-7.99

2170 MHz

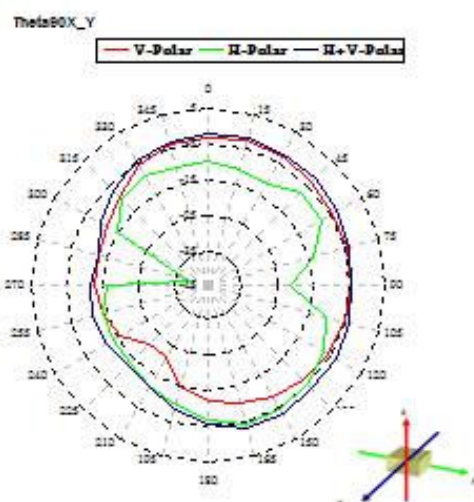
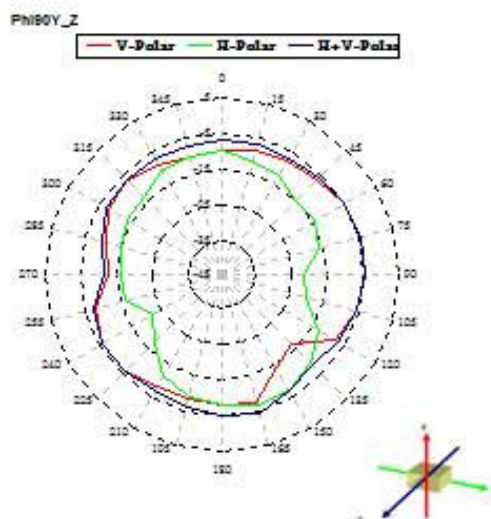
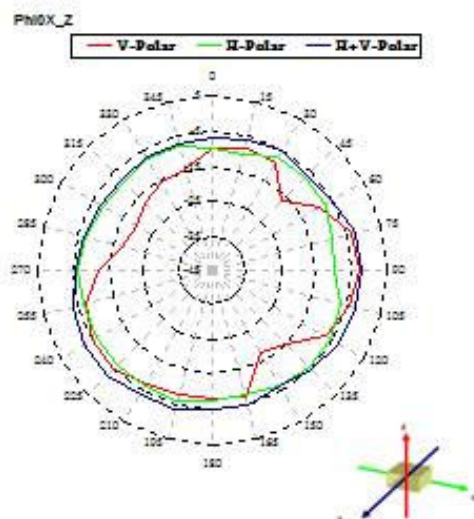


Frequency = 2170 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.91	0.19	-7.01
H(Peak Gain)	0.88	-2.91	-0.08
V(Avg Gain)	-12.64	-7.95	-10.44
H(Avg Gain)	-4.83	-15.94	-8.59

Diversity Antenna

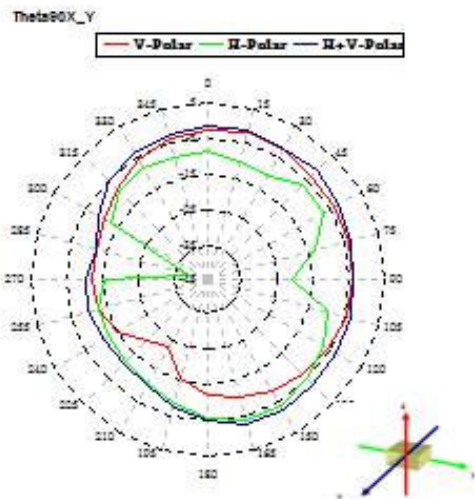
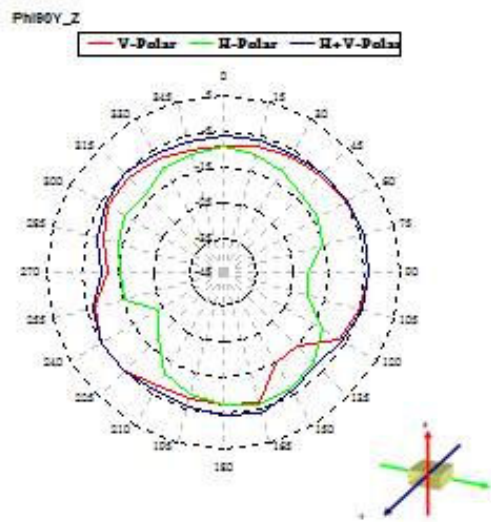
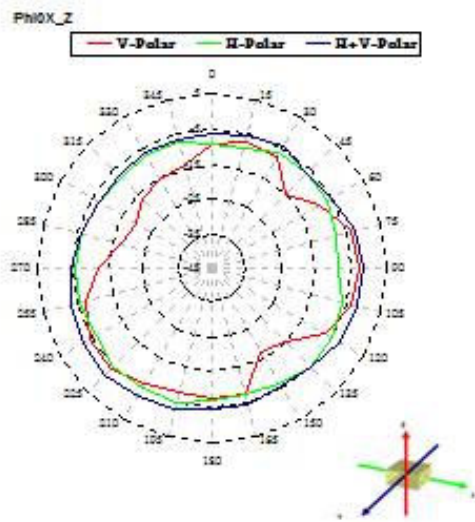
869 MHz



Frequency = 869 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-3.09	-4.51	-2.80
H(Peak Gain)	-5.72	-7.04	-4.23
V(Avg Gain)	-10.69	-8.63	-9.22
H(Avg Gain)	-7.77	-13.65	-12.02

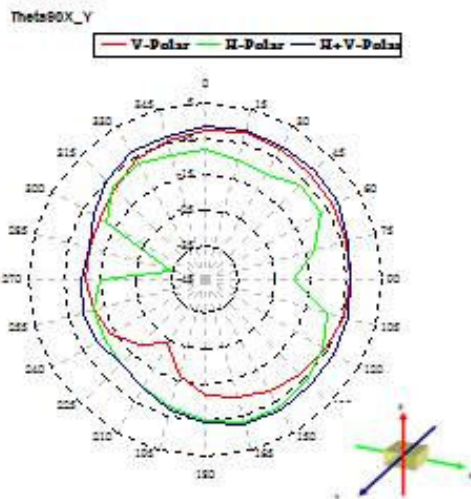
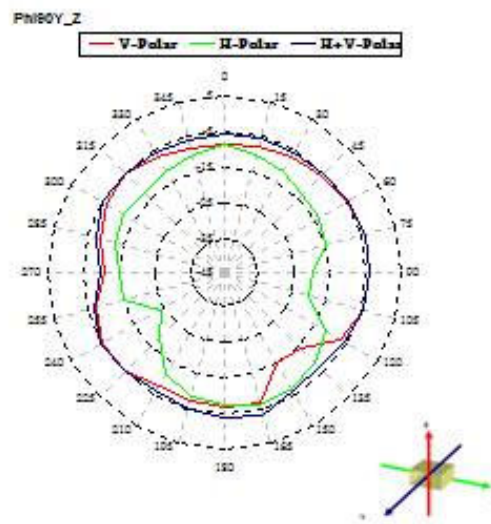
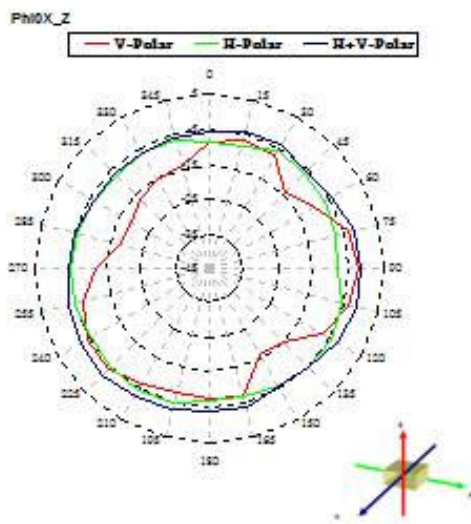
875 MHz



Frequency = 875 MHz

Plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.69	-4.19	-2.27
H(Peak Gain)	-5.02	-6.53	-3.68
V(Avg Gain)	-10.18	-7.90	-8.81
H(Avg Gain)	-6.96	-13.19	-11.17

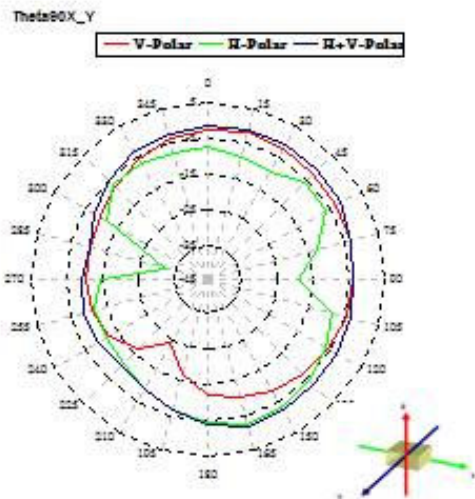
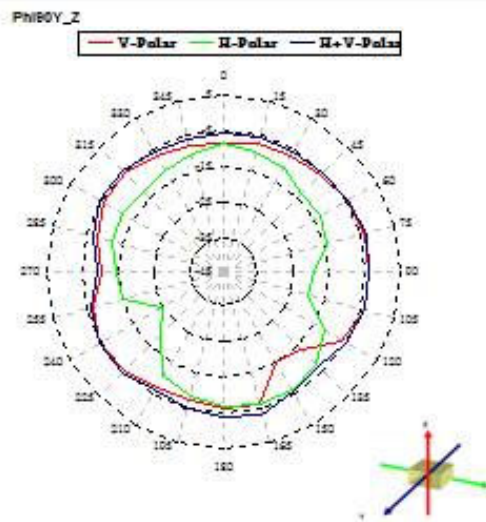
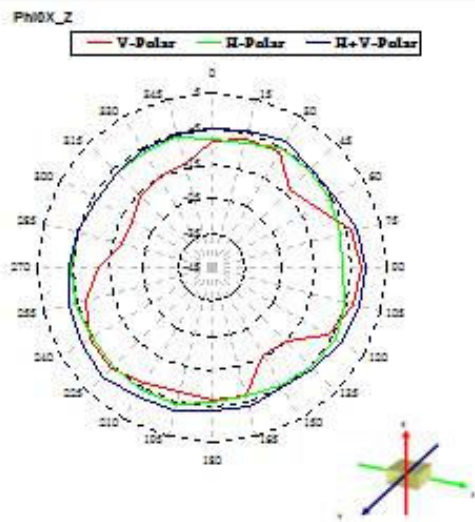
880 MHz



Frequency = 880 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.50	-3.98	-1.97
H(Peak Gain)	-4.56	-6.28	-3.30
V(Avg Gain)	-9.92	-7.45	-8.56
H(Avg Gain)	-6.35	-12.91	-10.38

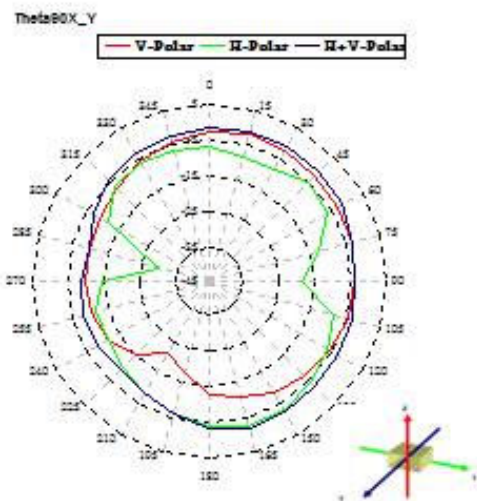
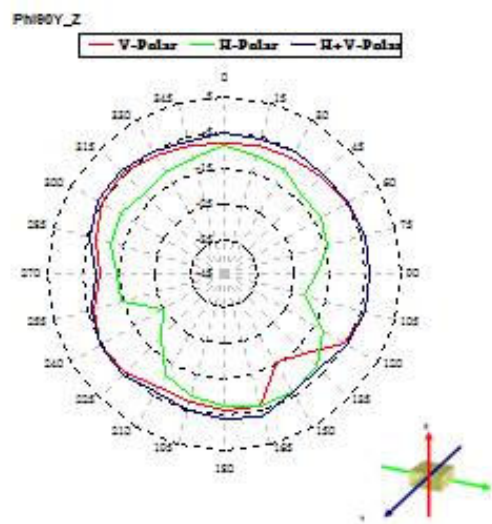
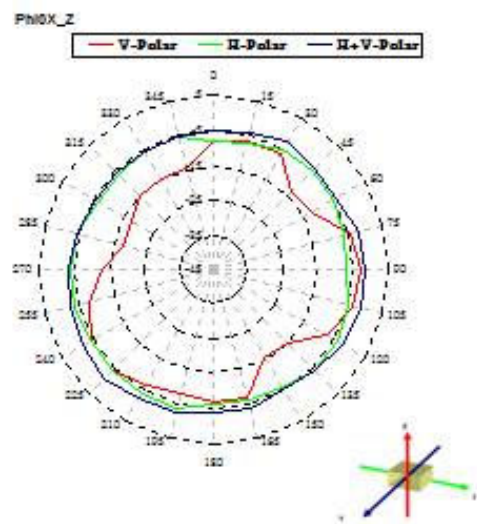
885MHz



Frequency = 885 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.46	-3.86	-1.85
H(Peak Gain)	-4.20	-6.15	-2.97
V(Avg Gain)	-9.80	-7.10	-8.32
H(Avg Gain)	-5.91	-12.73	-9.82

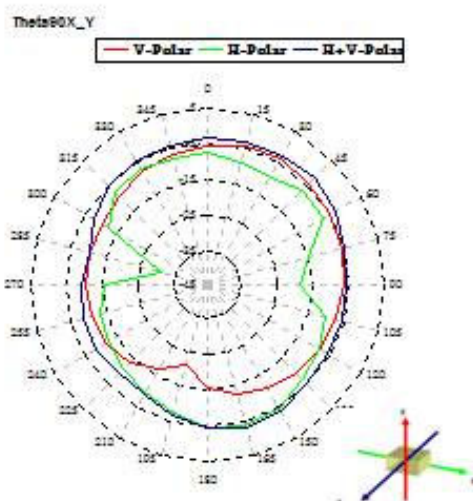
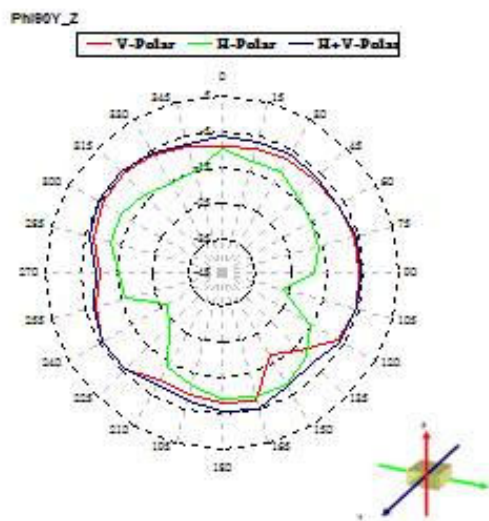
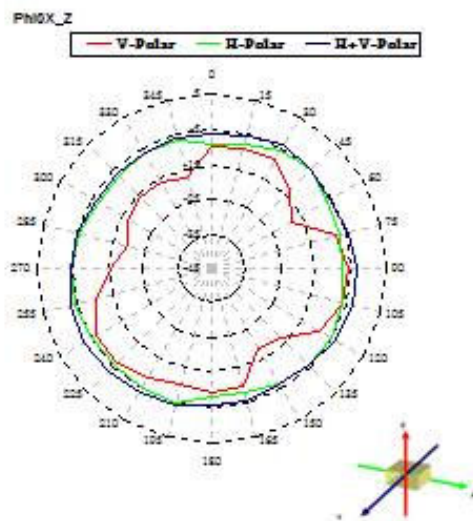
894 MHz



Frequency = 894 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-2.83	-4.02	-1.93
H(Peak Gain)	-3.94	-6.34	-2.68
V(Avg Gain)	-9.99	-6.90	-8.20
H(Avg Gain)	-5.48	-12.80	-9.30

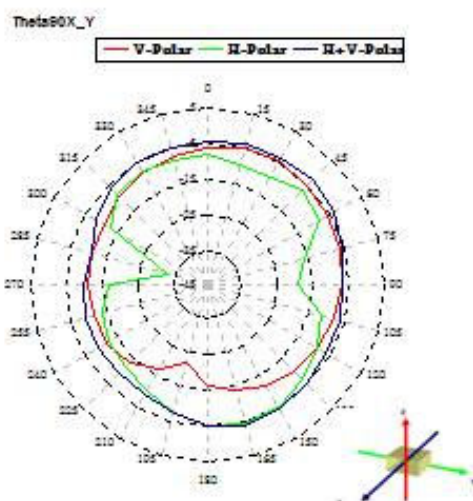
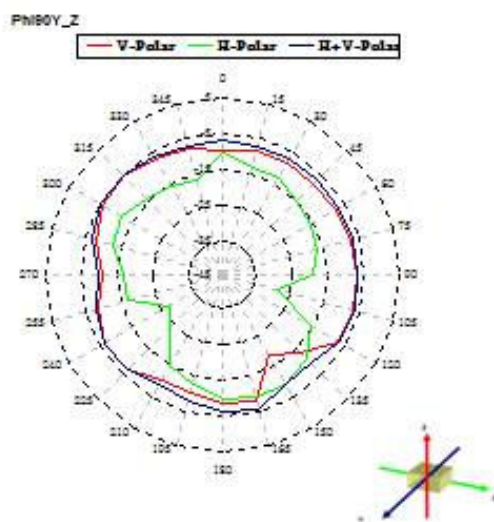
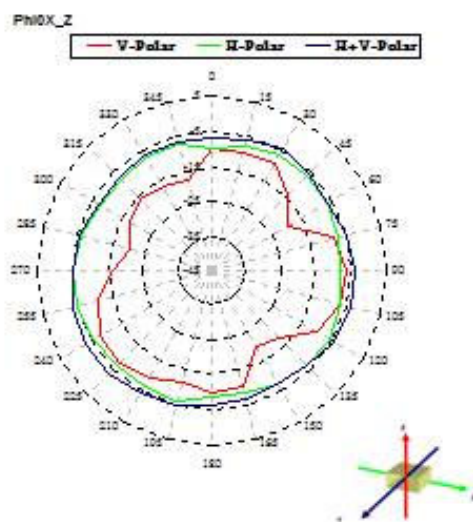
915 MHz



Frequency = 915 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-5.60	-5.07	-4.00
H(Peak Gain)	-4.61	-8.52	-3.85
V(Avg Gain)	-12.23	-8.19	-9.65
H(Avg Gain)	-6.54	-14.93	-10.55

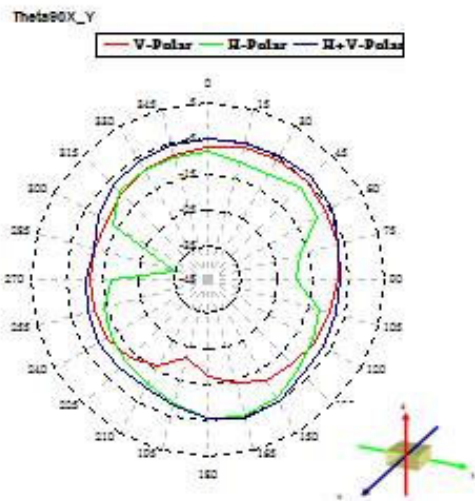
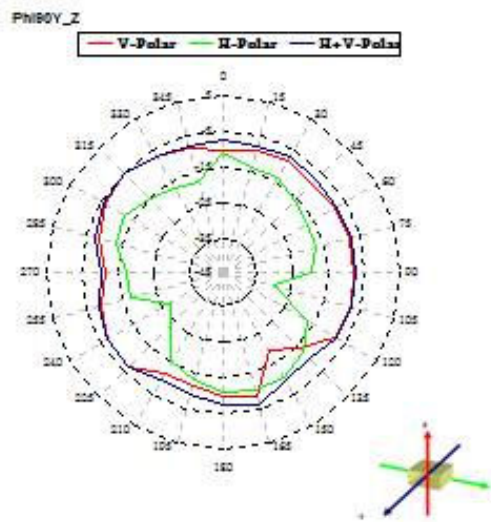
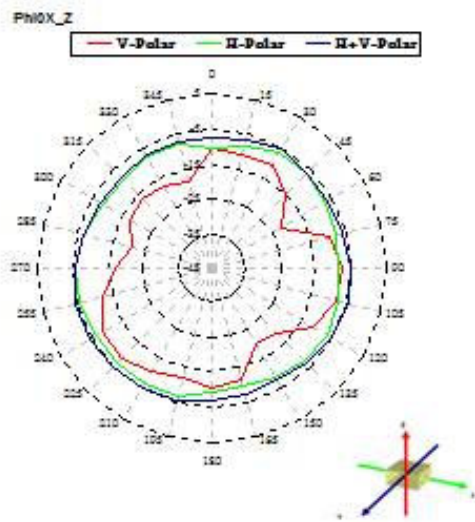
920 MHz



Frequency = 920 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.51	-5.47	-4.77
H(Peak Gain)	-5.10	-9.31	-4.42
V(Avg Gain)	-12.99	-8.79	-10.23
H(Avg Gain)	-7.13	-15.73	-11.22

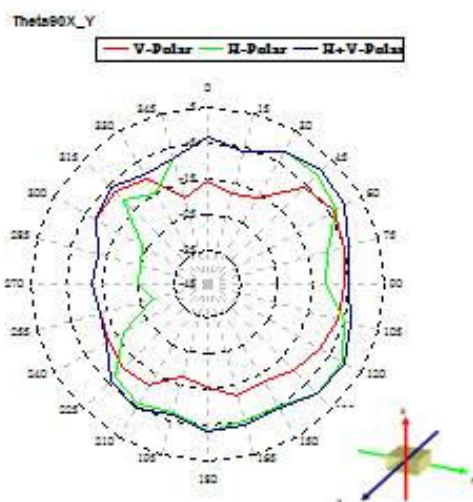
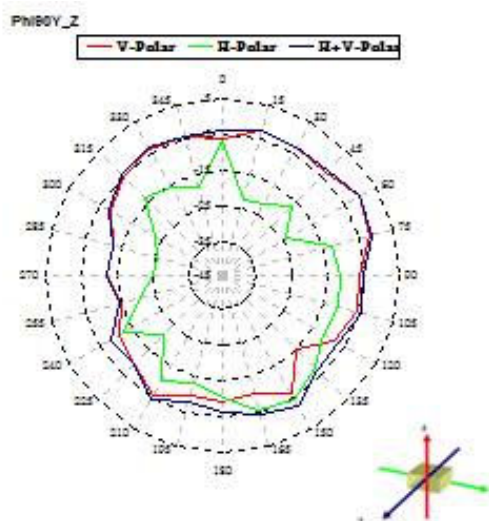
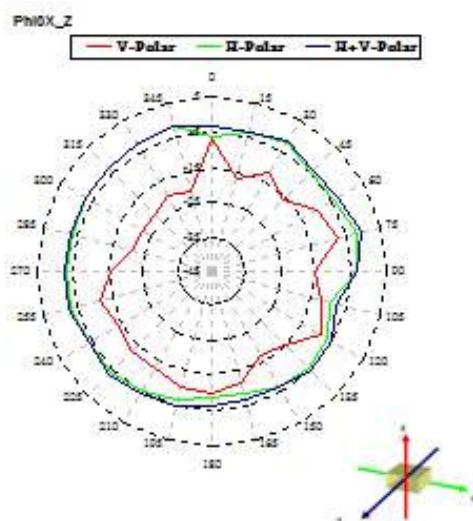
925 MHz



Frequency = 925 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-7.43	-5.91	-5.62
H(Peak Gain)	-5.67	-10.24	-5.11
V(Avg Gain)	-13.86	-9.44	-10.87
H(Avg Gain)	-7.80	-16.51	-12.00

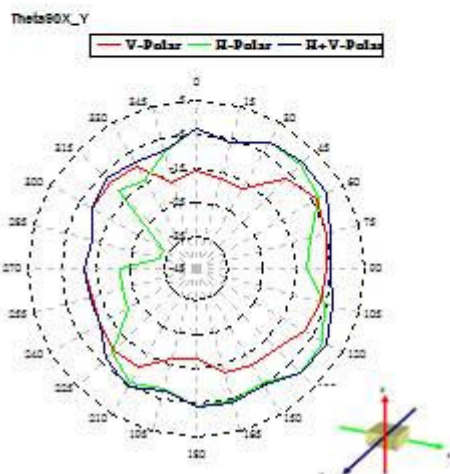
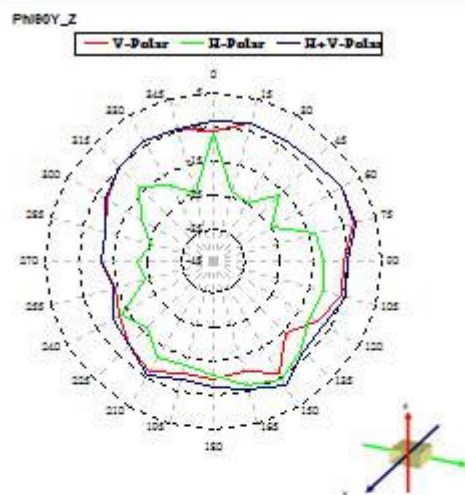
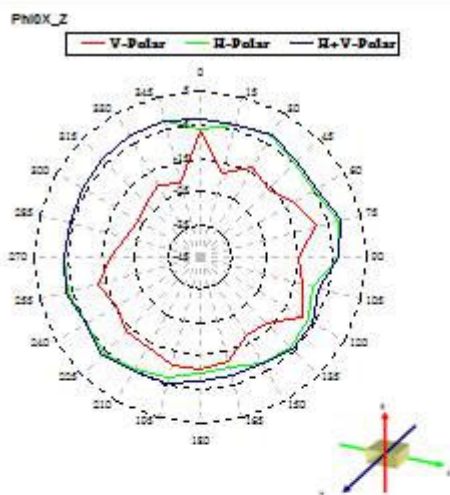
1930 MHz



Frequency = 1930 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-7.04	-0.64	-3.97
H(Peak Gain)	-2.27	-4.34	-1.08
V(Avg Gain)	-14.48	-7.45	-11.64
H(Avg Gain)	-4.96	-15.45	-9.78

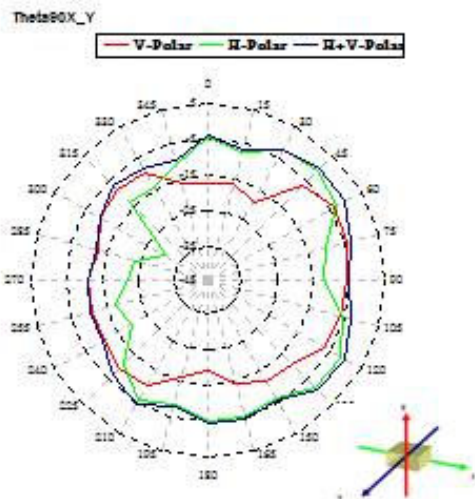
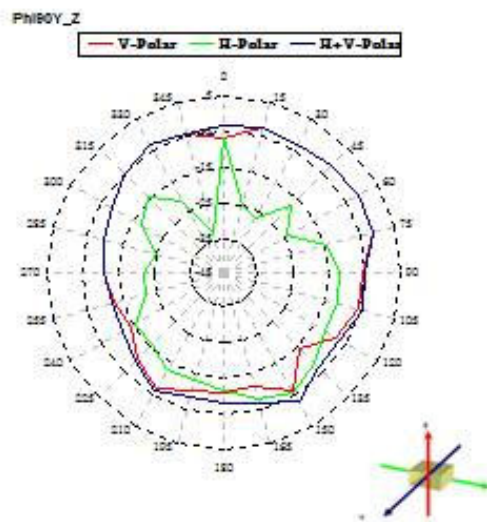
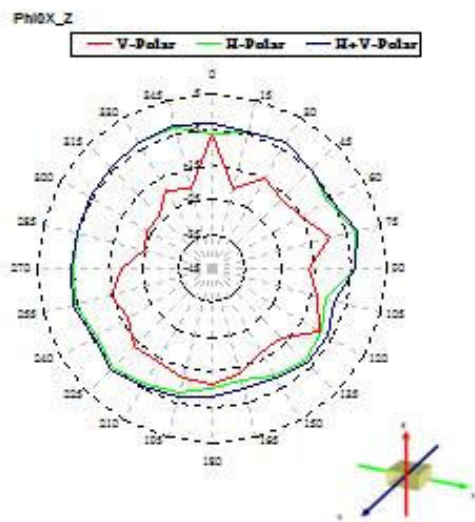
1960 MHz



Frequency = 1960 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.83	-0.81	-4.08
H(Peak Gain)	-2.37	-4.77	-1.19
V(Avg Gain)	-15.34	-7.58	-11.48
H(Avg Gain)	-5.39	-15.96	-10.56

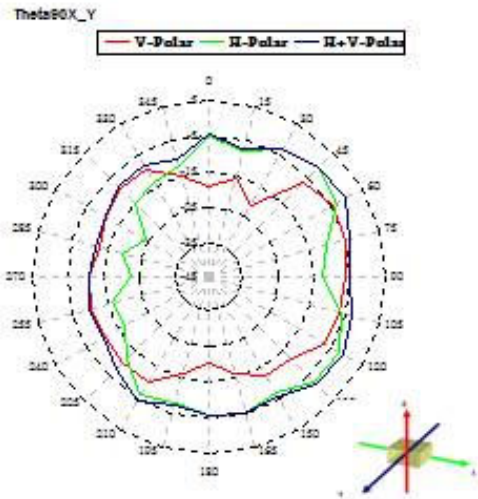
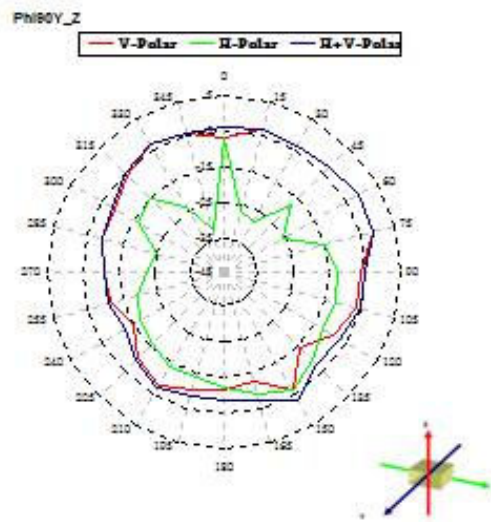
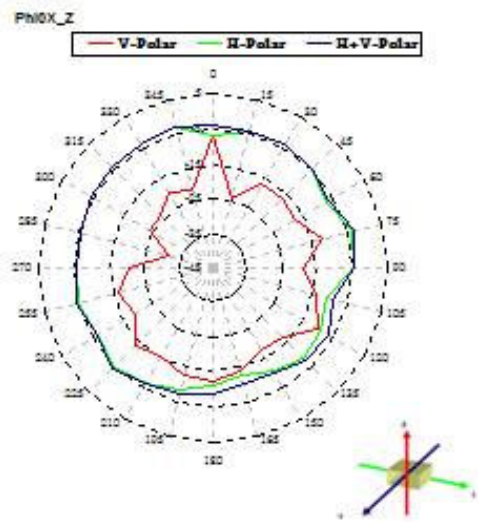
1990 MHz



Frequency = 1990 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.64	-0.73	-3.90
H(Peak Gain)	-3.13	-5.64	-1.48
V(Avg Gain)	-16.23	-7.50	-11.40
H(Avg Gain)	-6.23	-16.82	-10.29

2010 MHz

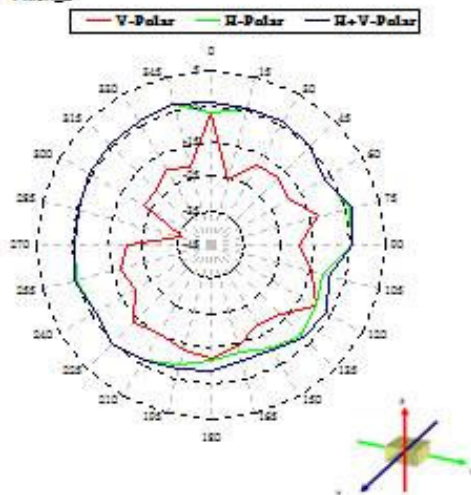


Frequency = 2010 MHz

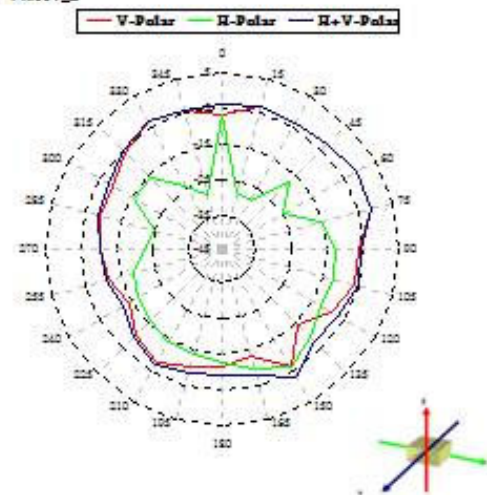
plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.93	-1.17	-4.31
H(Peak Gain)	-3.55	-6.33	-1.84
V(Avg Gain)	-17.54	-7.75	-11.87
H(Avg Gain)	-6.77	-17.39	-10.10

2018 MHz

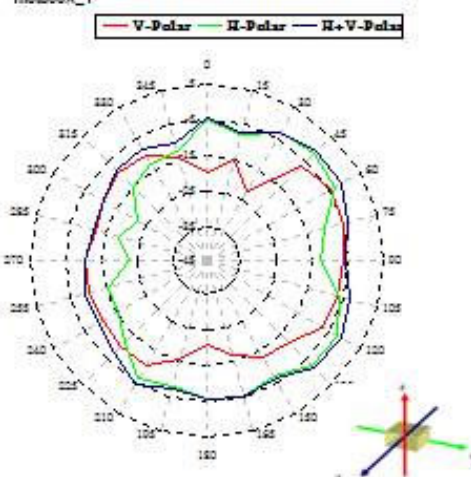
Phi0X_Z



Phi90Y_Z



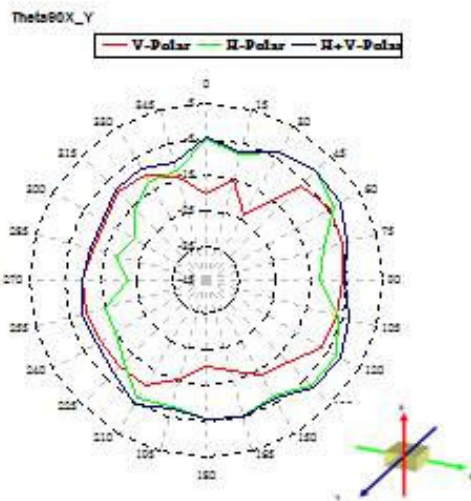
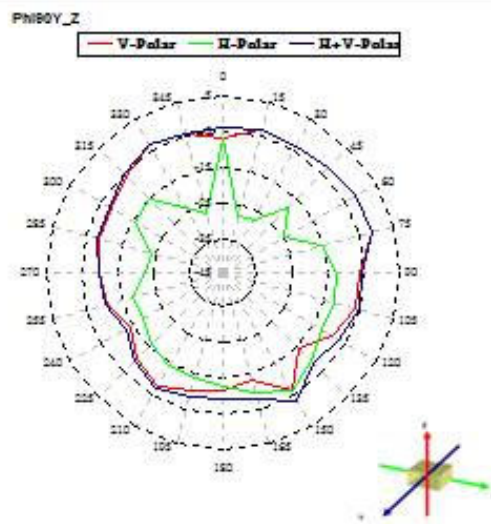
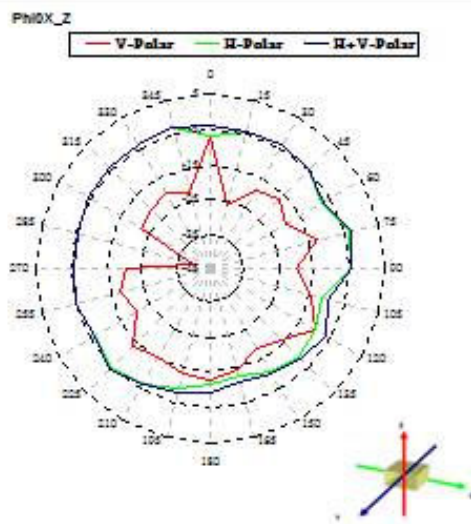
Theta90X_Y



Frequency = 2018 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.98	-1.23	-4.50
H(Peak Gain)	-3.60	-6.48	-1.89
V(Avg Gain)	-18.03	-7.74	-11.94
H(Avg Gain)	-6.85	-17.34	-9.99

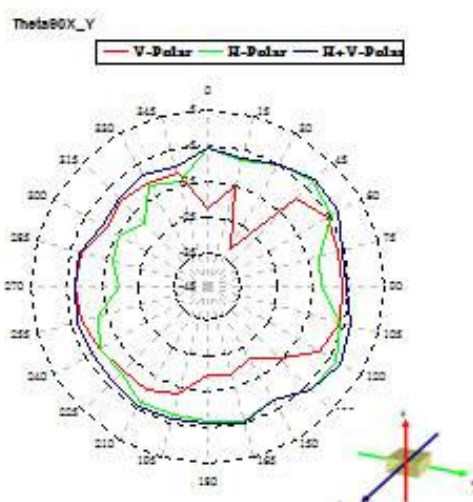
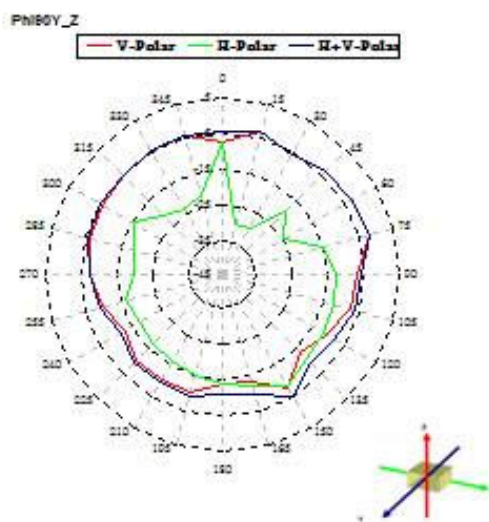
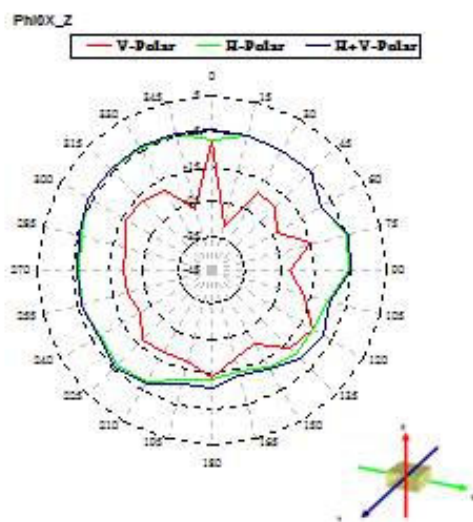
2025 MHz



Frequency = 2025 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.95	-1.39	-4.49
H(Peak Gain)	-3.62	-6.52	-1.82
V(Avg Gain)	-18.33	-7.67	-11.96
H(Avg Gain)	-6.88	-17.21	-9.84

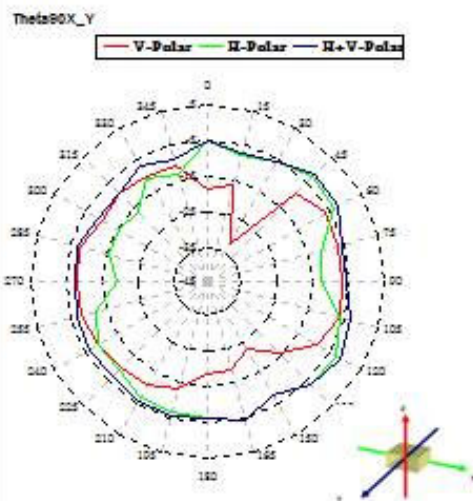
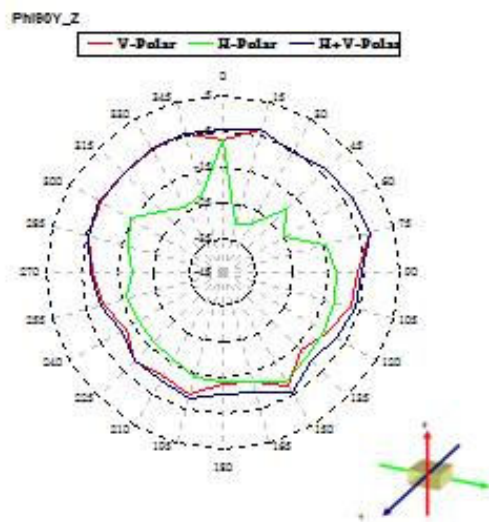
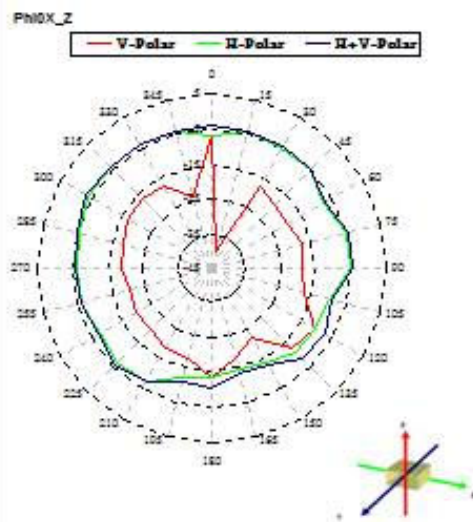
2110 MHz



Frequency = 2110 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-7.37	-2.41	-5.94
H(Peak Gain)	-4.23	-7.37	-2.73
V(Avg Gain)	-18.75	-7.87	-12.73
H(Avg Gain)	-7.90	-17.41	-9.66

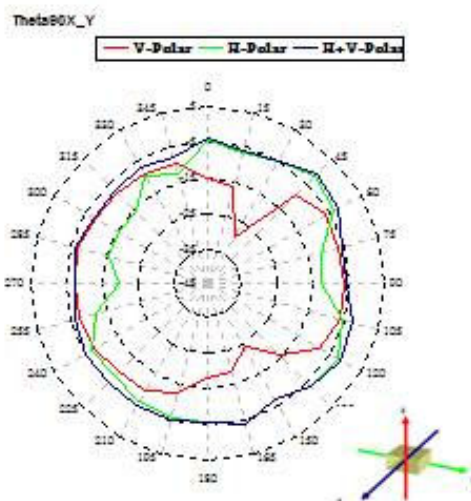
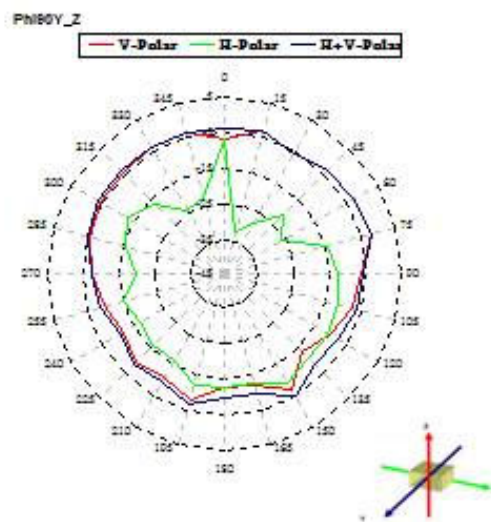
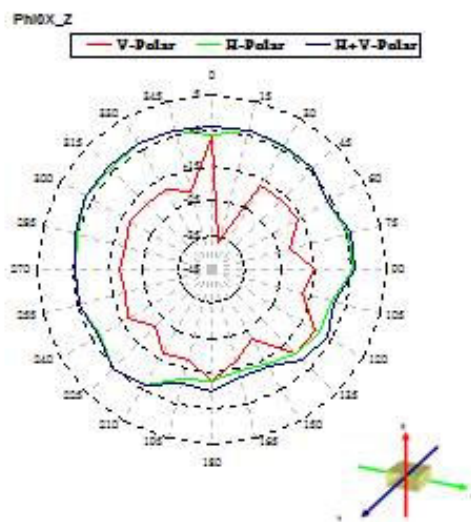
2140 MHz



Frequency = 2140 MHz

Plane	Phi0	Phi90	Theta90
V(Peak Gain)	-7.26	-2.38	-6.13
H(Peak Gain)	-3.89	-7.26	-2.57
V(Avg Gain)	-18.71	-7.77	-12.53
H(Avg Gain)	-7.63	-17.15	-9.16

2170 MHz



Frequency = 2170 MHz

plane	Phi0	Phi90	Theta90
V(Peak Gain)	-6.82	-2.09	-6.07
H(Peak Gain)	-3.63	-6.82	-2.20
V(Avg Gain)	-18.12	-7.32	-11.84
H(Avg Gain)	-7.19	-16.89	-8.61