



深圳市鑫尔盛科技有限公司

Shenzhen xinersheng Technology Co., Ltd

Antenna Test Report

- ❖ Engineering: Fang Lizhi
 - ❖ Date: 2025-04-17
- 

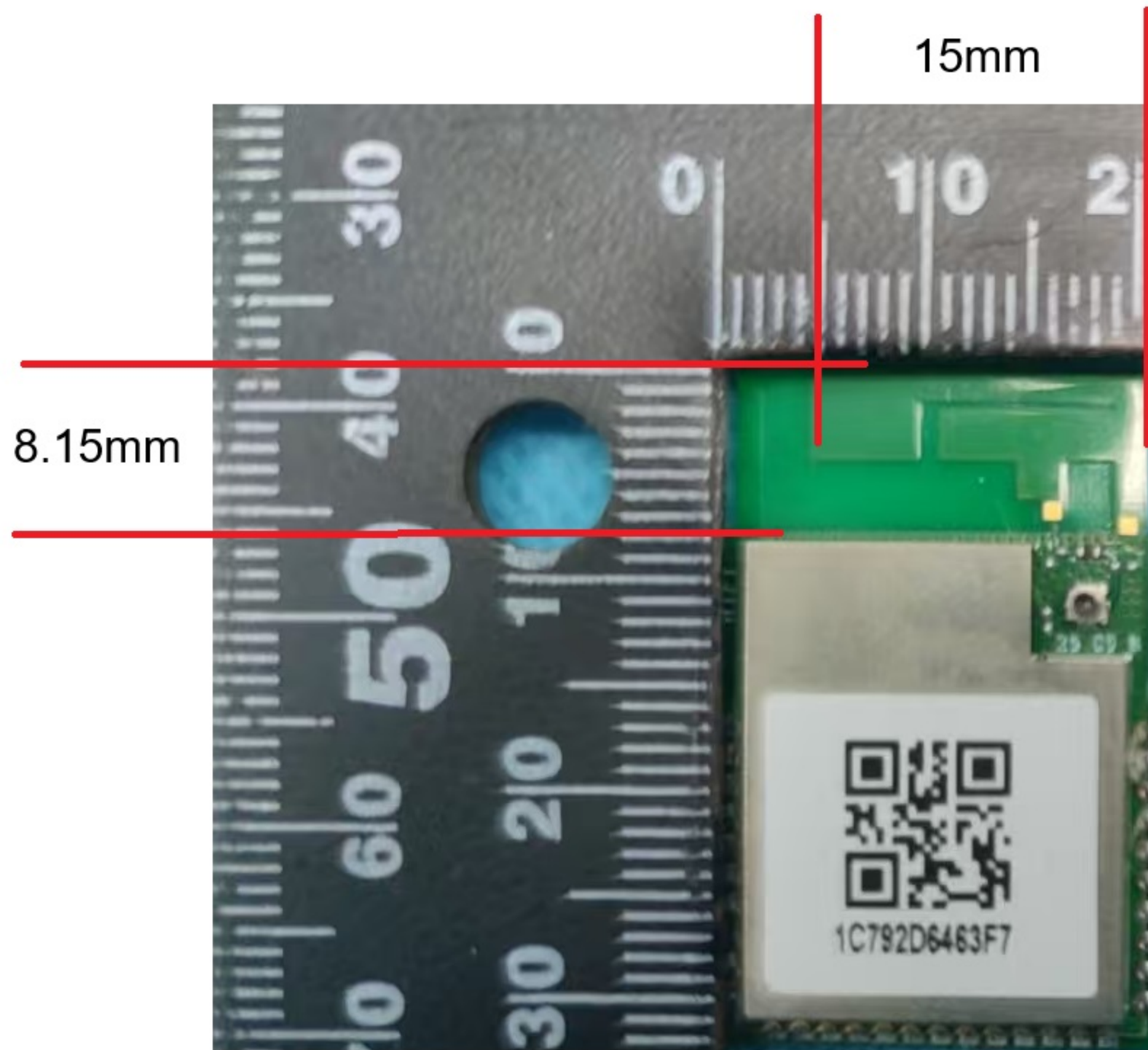
1. Antenna manufacturer and manufacturer address

Antenna manufacturer : Kingshine Electronics Limited

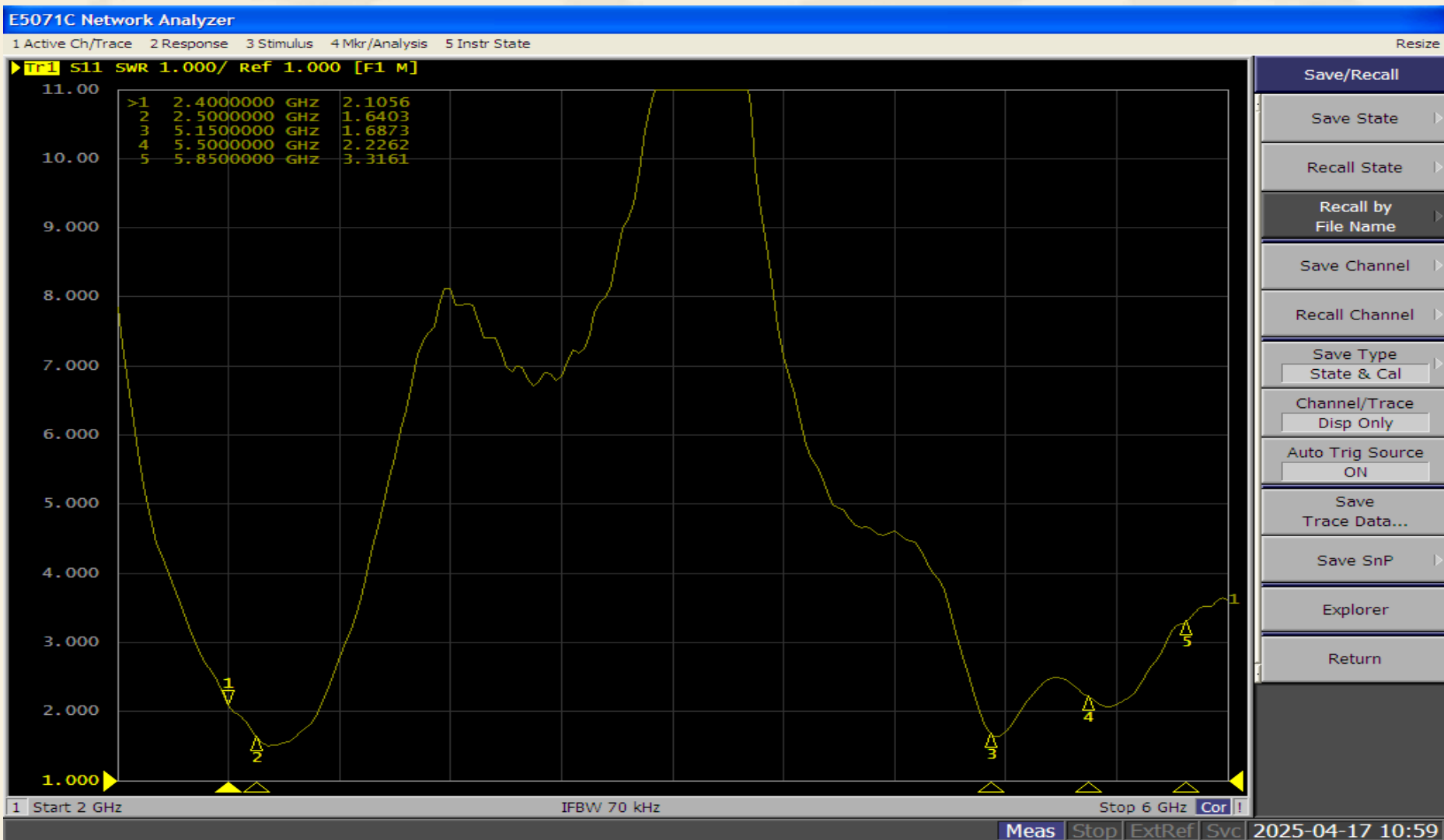
Antenna manufacturer address : 4 / F, No. 8, Jiuwei 1st Road,, Jiuwei Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong China,

2. Antenna Sample





Antenna VSWR



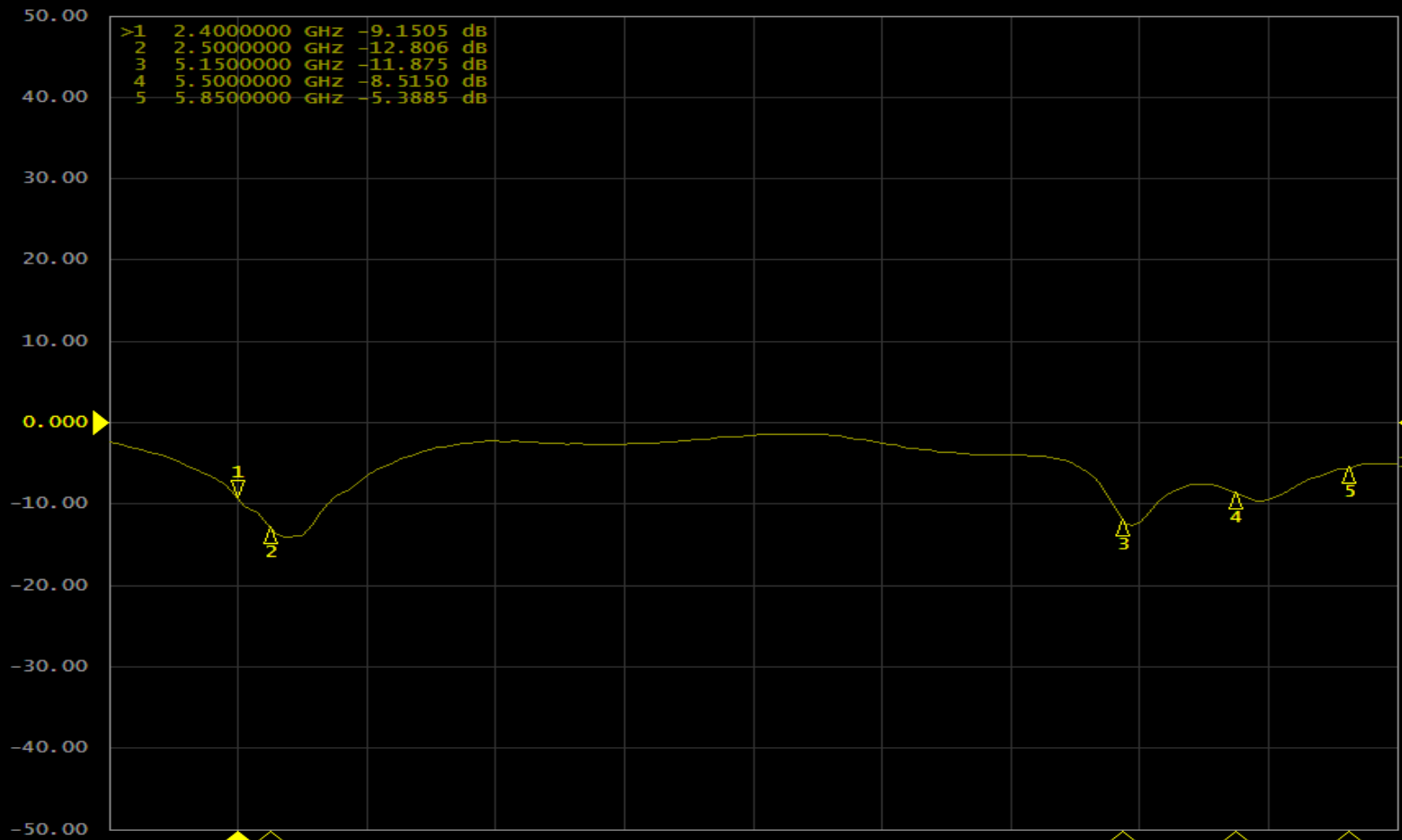
Antenna log mag

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

► Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1 M]



1 Start 2 GHz

IFBW 70 kHz

Stop 6 GHz Cor II

Meas Stop ExtRef Svc 2025-04-17 10:58

Antenna smith

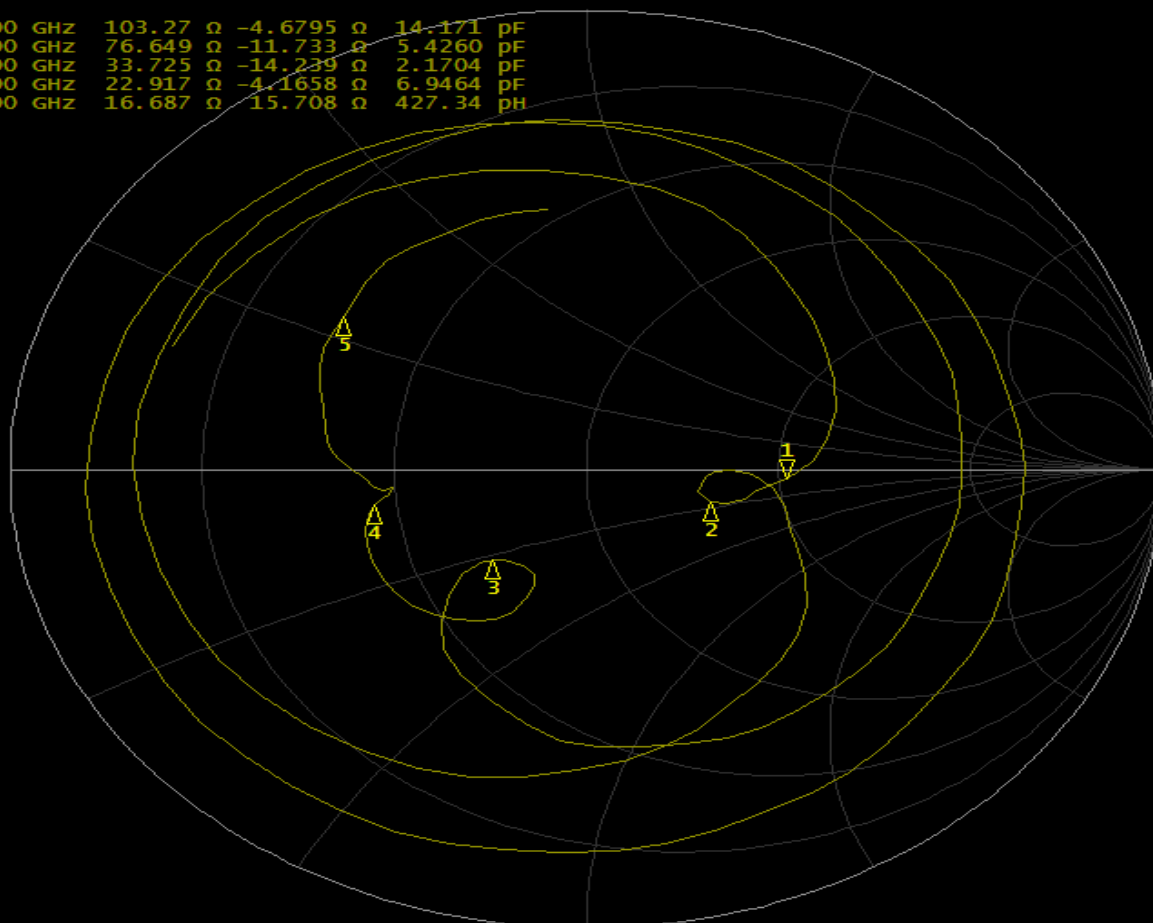
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

▶ Tr1 S11 Smith (R+jX) scale 1.000U [F1 M]

>1	2.4000000	GHZ	103.27	Ω	-4.6795	Ω	14.171	pF
2	2.5000000	GHZ	76.649	Ω	-11.733	Ω	5.4260	pF
3	5.1500000	GHZ	33.725	Ω	-14.239	Ω	2.1704	pF
4	5.5000000	GHZ	22.917	Ω	-4.1658	Ω	6.9464	pF
5	5.8500000	GHZ	16.687	Ω	15.708	Ω	427.34	pH



E5071C Menu

Measurement

S11

Format

Smith (R+jX)

Scale

Display

Average

Calibration

Stimulus

Sweep Setup

Trigger

Marker

Marker Search

Marker Function

Analysis

1 Start 2 GHz

IFBW 70 kHz

Stop 6 GHz Cor I

Meas

Stop

ExtRef

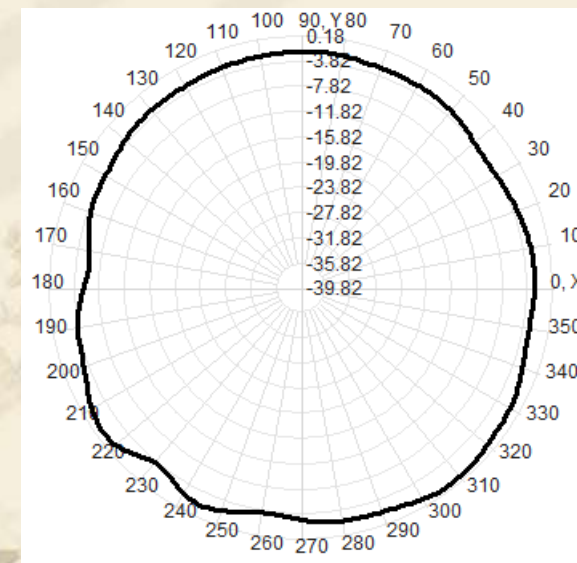
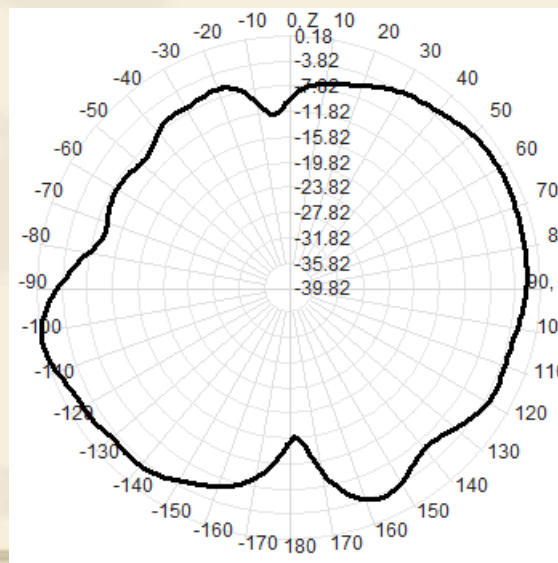
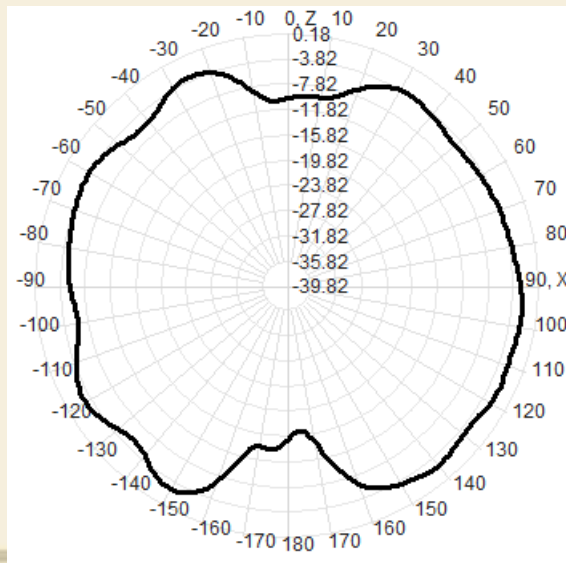
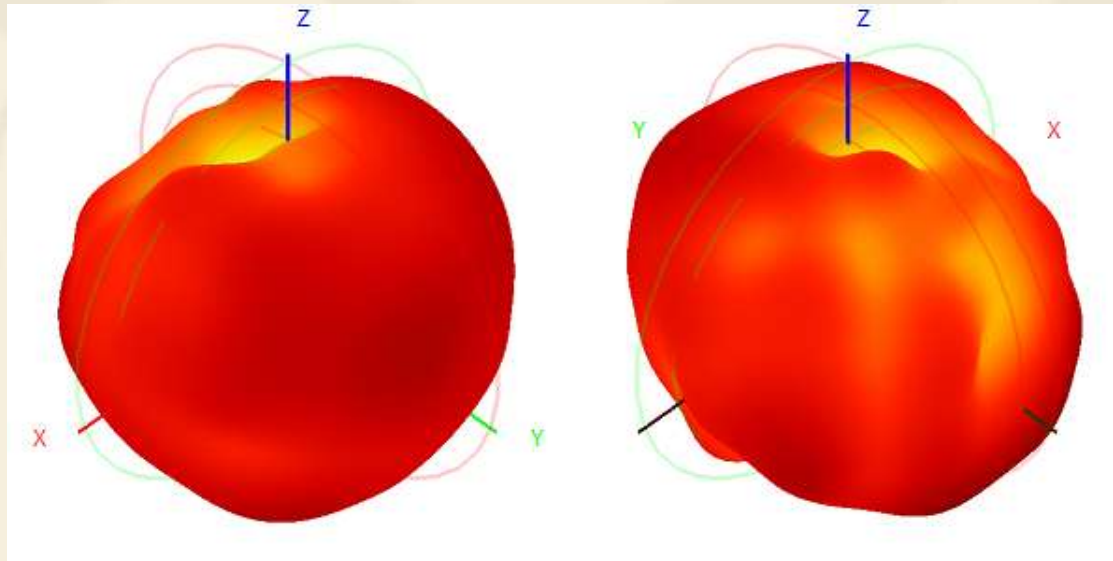
Svc

2025-04-17 10:58

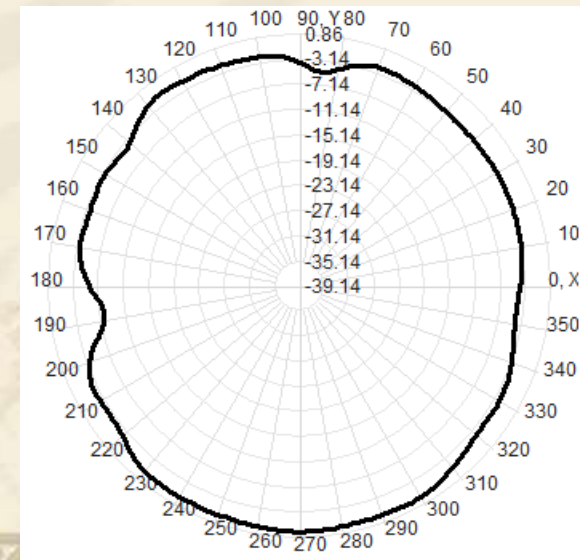
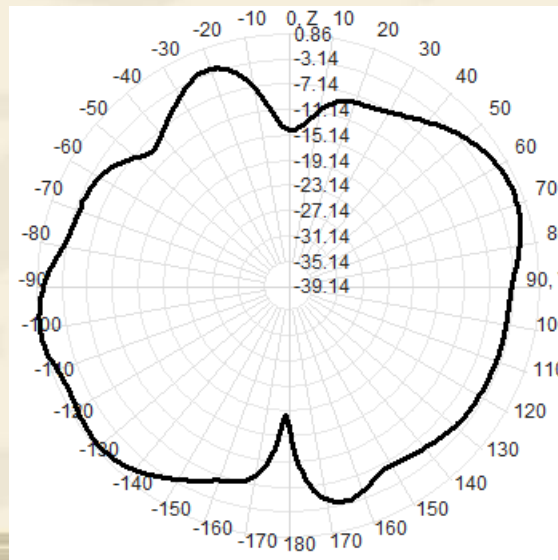
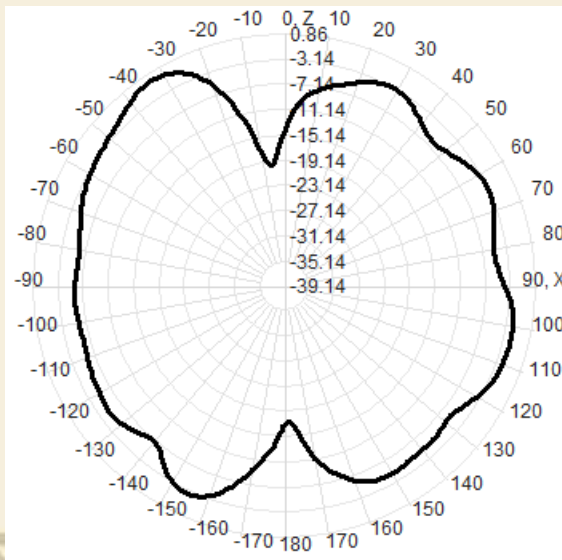
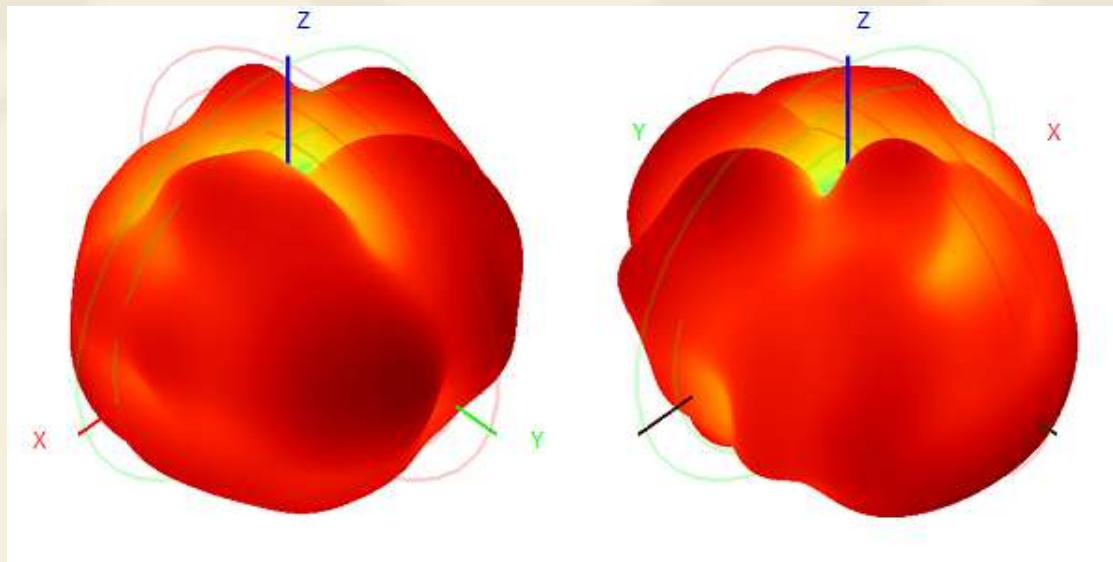
Antenna Passive test data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-3.46	-3.27	-3.13	-3.09	-3.06	-2.93	-2.74	-2.64	-2.58	-2.53	-2.47	-5.61	-5.18	-5.18	-5.05	-4.40	-4.76	-3.76	-3.90	-3.64	-3.31	-3.46	-3.44	-3.94	-3.68	-4.08
Gain (dBi)	1.68	1.52	1.66	1.16	1.61	1.31	1.35	1.36	1.16	1.22	1.36	1.51	1.95	1.93	1.83	1.27	0.75	2.05	1.94	2.28	3.07	2.69	3.24	2.32	2.96	2.27
Efficiency (%)	45.06	47.05	48.66	49.10	49.38	50.89	53.15	54.51	55.24	55.83	56.60	27.49	30.31	30.33	31.29	36.32	33.42	42.03	40.70	43.23	46.70	45.06	45.27	40.36	42.87	39.09
Directivity (dB)	4.14	4.25	4.13	4.25	3.97	4.25	4.10	4.00	3.73	3.75	3.84	5.61	5.29	5.16	5.27	5.67	5.51	5.82	5.84	5.93	6.38	6.15	6.68	6.26	6.64	6.35
Peak Gain Position (Theta)	99.00	98.00	100.00	100.00	100.00	65.00	127.00	127.00	109.00	108.00	107.00	66.00	70.00	66.00	67.00	131.00	71.00	131.00	131.00	130.00	130.00	129.00	130.00	128.00	131.00	128.00
Peak Gain Position (Phi)	309.00	308.00	279.00	286.00	281.00	68.00	254.00	256.00	325.00	321.00	315.00	116.00	122.00	124.00	126.00	60.00	125.00	57.00	64.00	61.00	65.00	64.00	67.00	69.00	63.00	69.00
Efficiency ThetaPol (%)	22.85	24.07	24.86	24.50	25.03	26.71	29.40	30.31	30.15	29.79	29.76	15.82	15.35	15.53	16.39	15.89	16.96	19.70	19.47	20.17	21.58	20.92	20.05	18.50	18.28	18.17
Efficiency PhiPol (%)	22.21	22.98	23.79	24.60	24.35	24.18	23.76	24.21	25.08	26.04	26.84	11.66	14.97	14.80	14.90	20.43	16.45	22.33	21.22	23.06	25.11	24.14	25.22	21.86	24.58	20.92
Upper Hem. Efficiency (%)	20.21	21.28	22.32	22.60	23.16	24.08	25.67	26.07	26.04	26.03	26.18	11.77	11.97	12.23	12.71	13.47	13.56	14.98	15.74	16.80	18.20	17.30	17.16	16.08	15.95	15.54
Lower Hem. Efficiency (%)	24.85	25.77	26.34	26.50	26.22	26.80	27.48	28.45	29.20	29.80	30.43	15.72	18.35	18.10	18.59	22.85	19.86	27.05	24.96	26.44	28.49	27.76	28.11	24.28	26.92	23.55

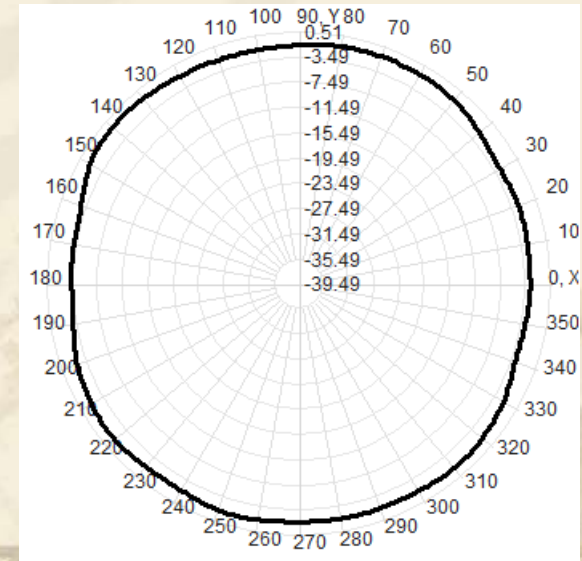
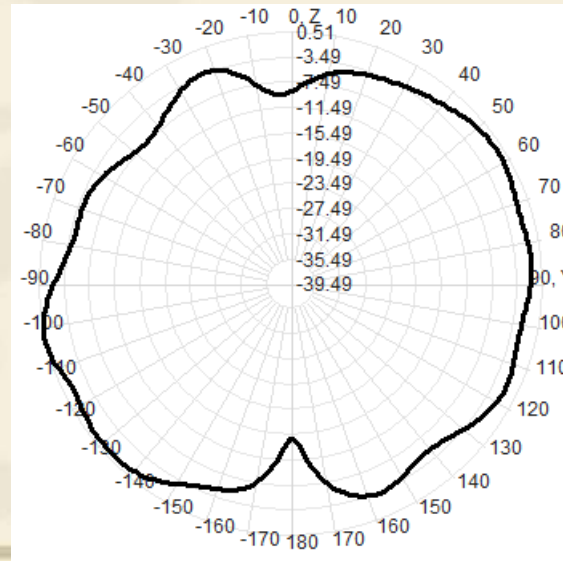
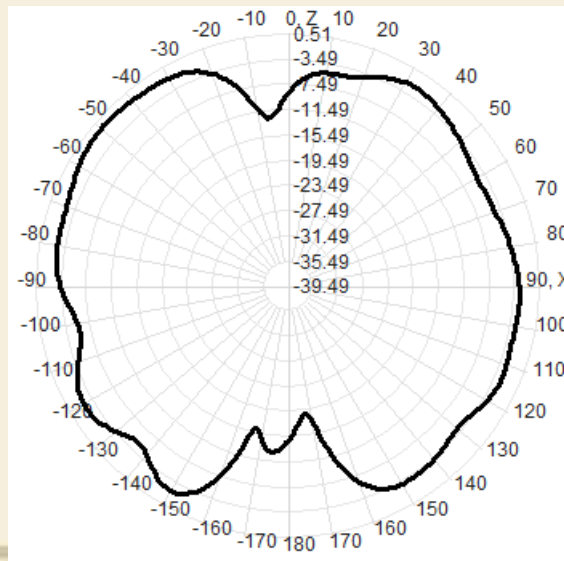
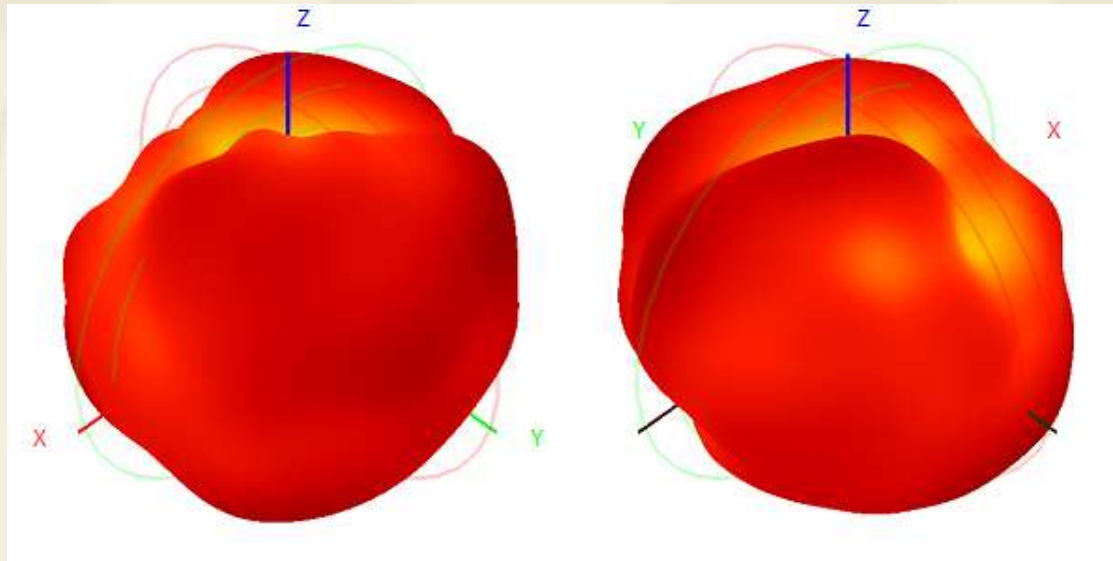
Antenna Apple Image (2400M)



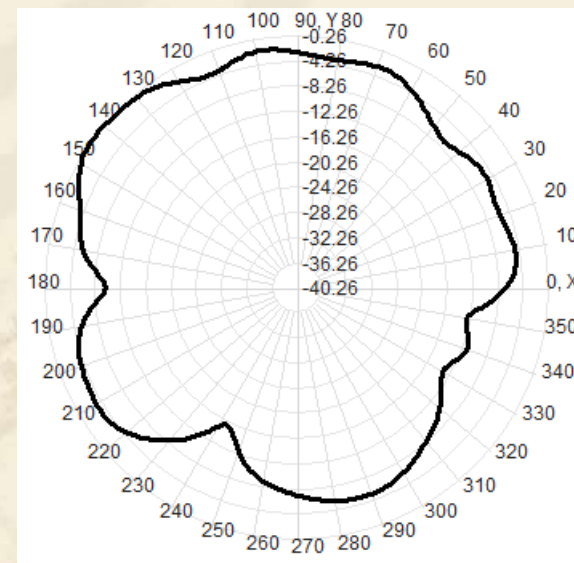
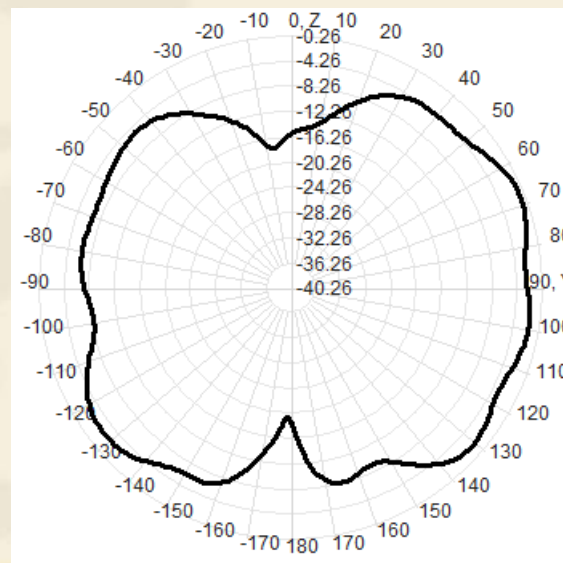
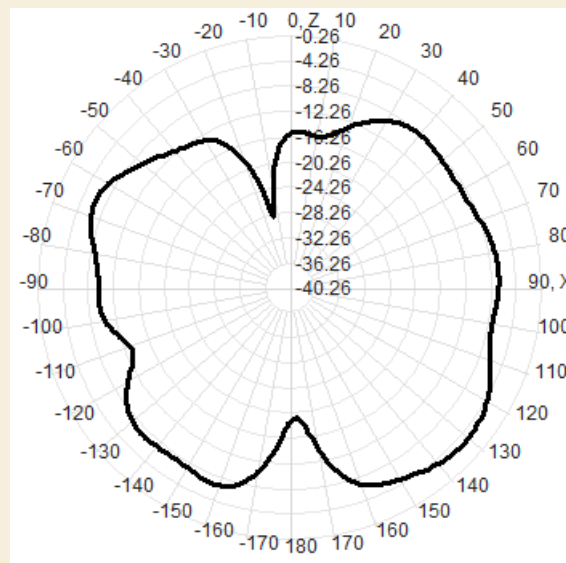
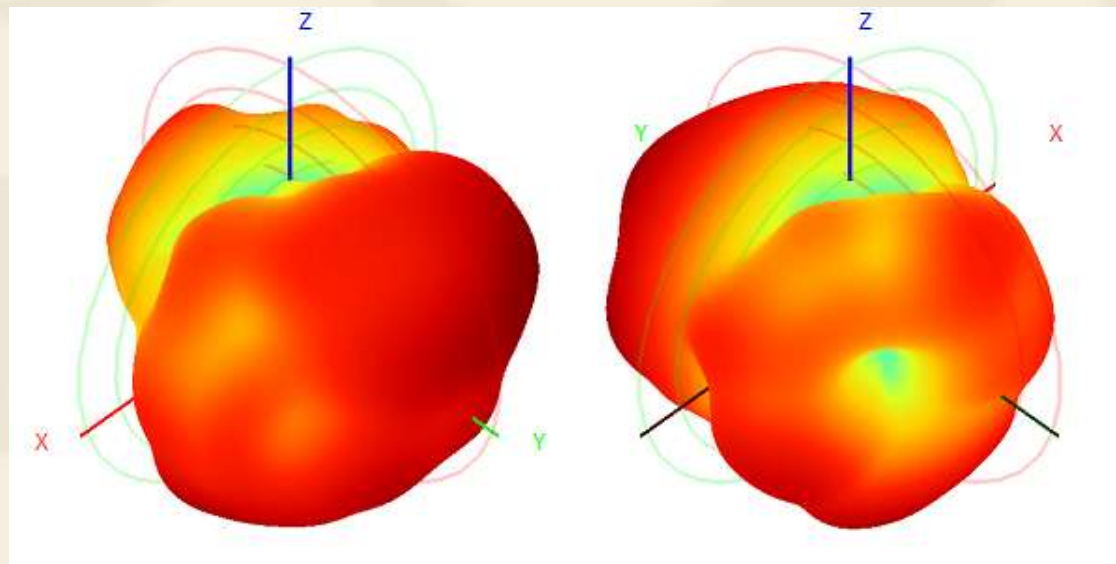
Antenna Apple Image (2450M)



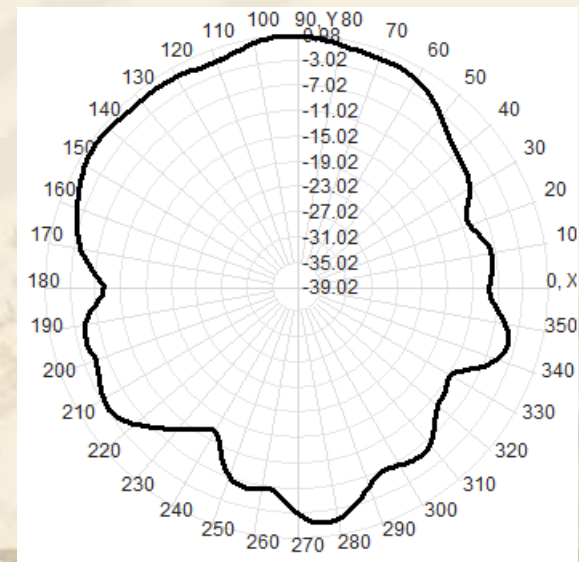
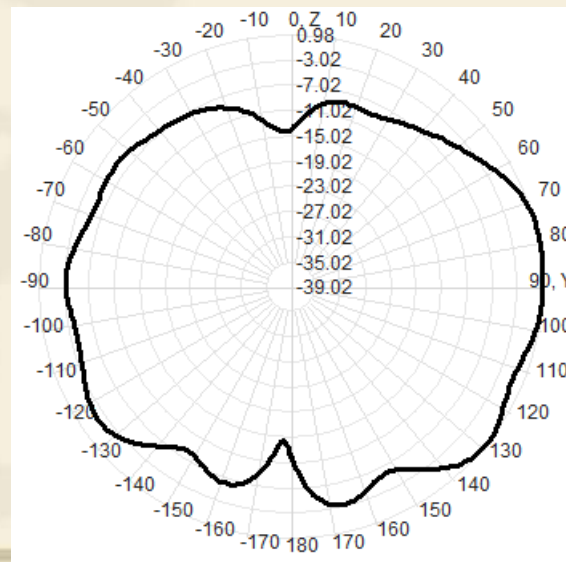
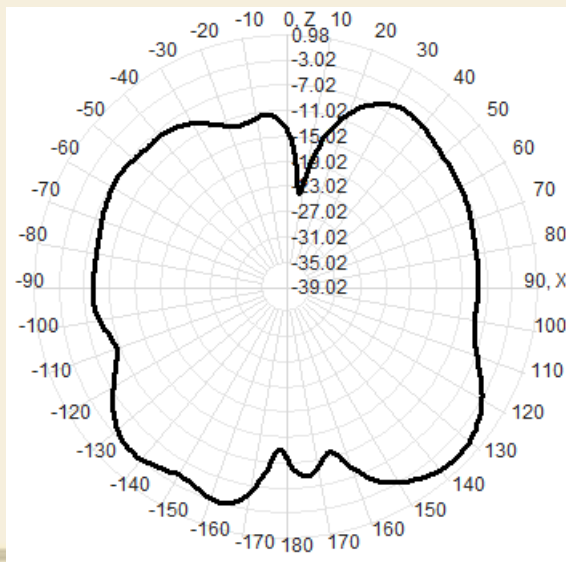
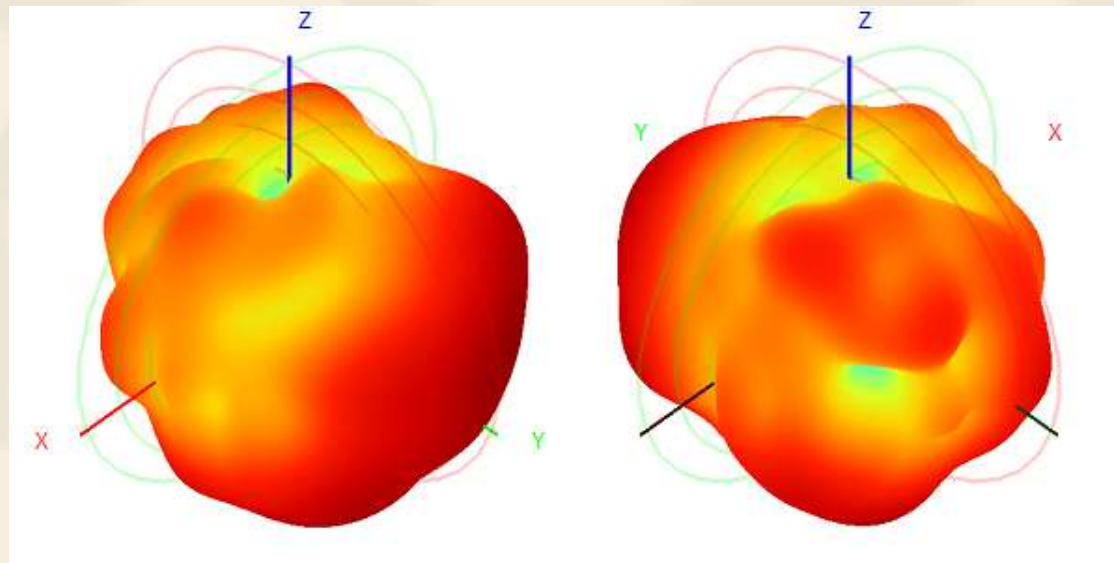
Antenna Apple Image (2500M)



Antenna Apple Image (5150M)



Antenna Apple Imag (5500M)



Antenna Apple Image (5850M)

