



深圳汉阳天线设计有限公司

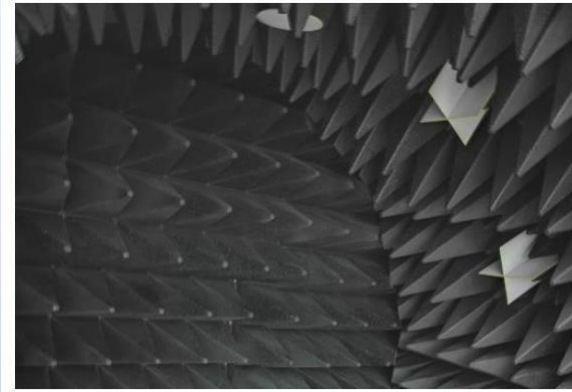
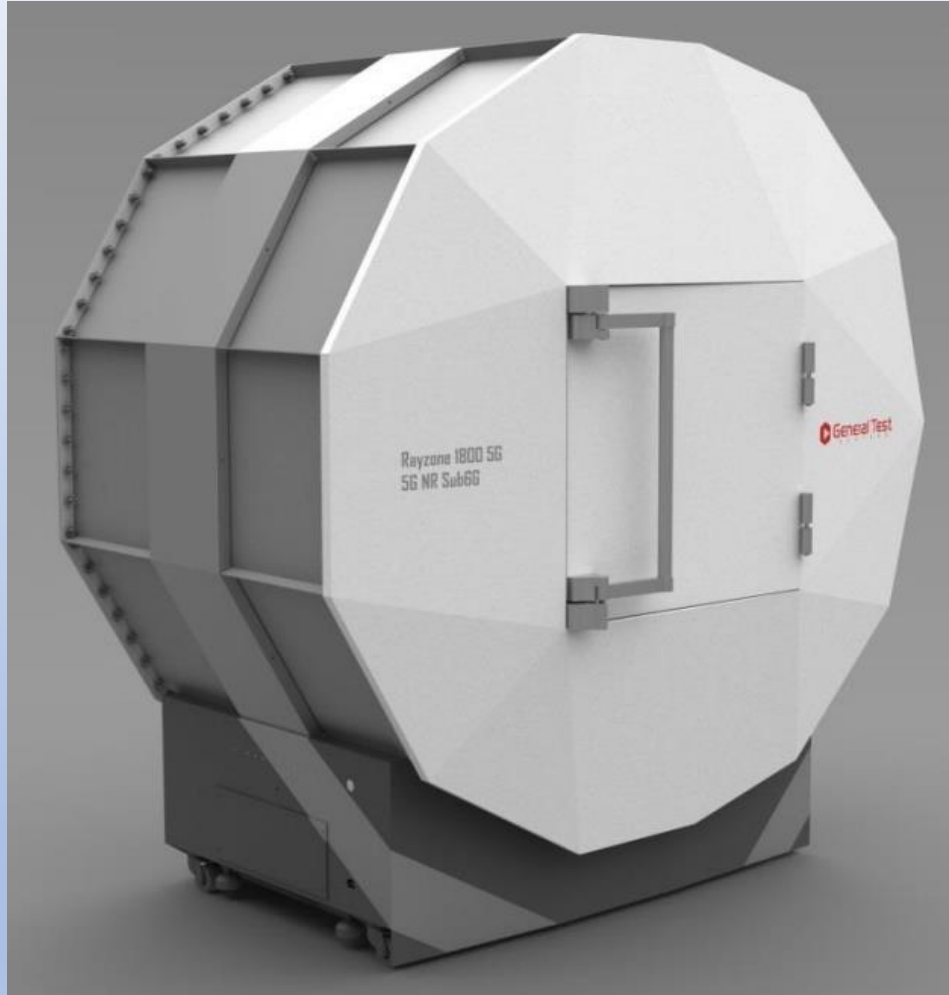
SHENZHEN HANYANG ANTENNA DESIGN CO.LTD.

Customer: **GSD**

Antennareport

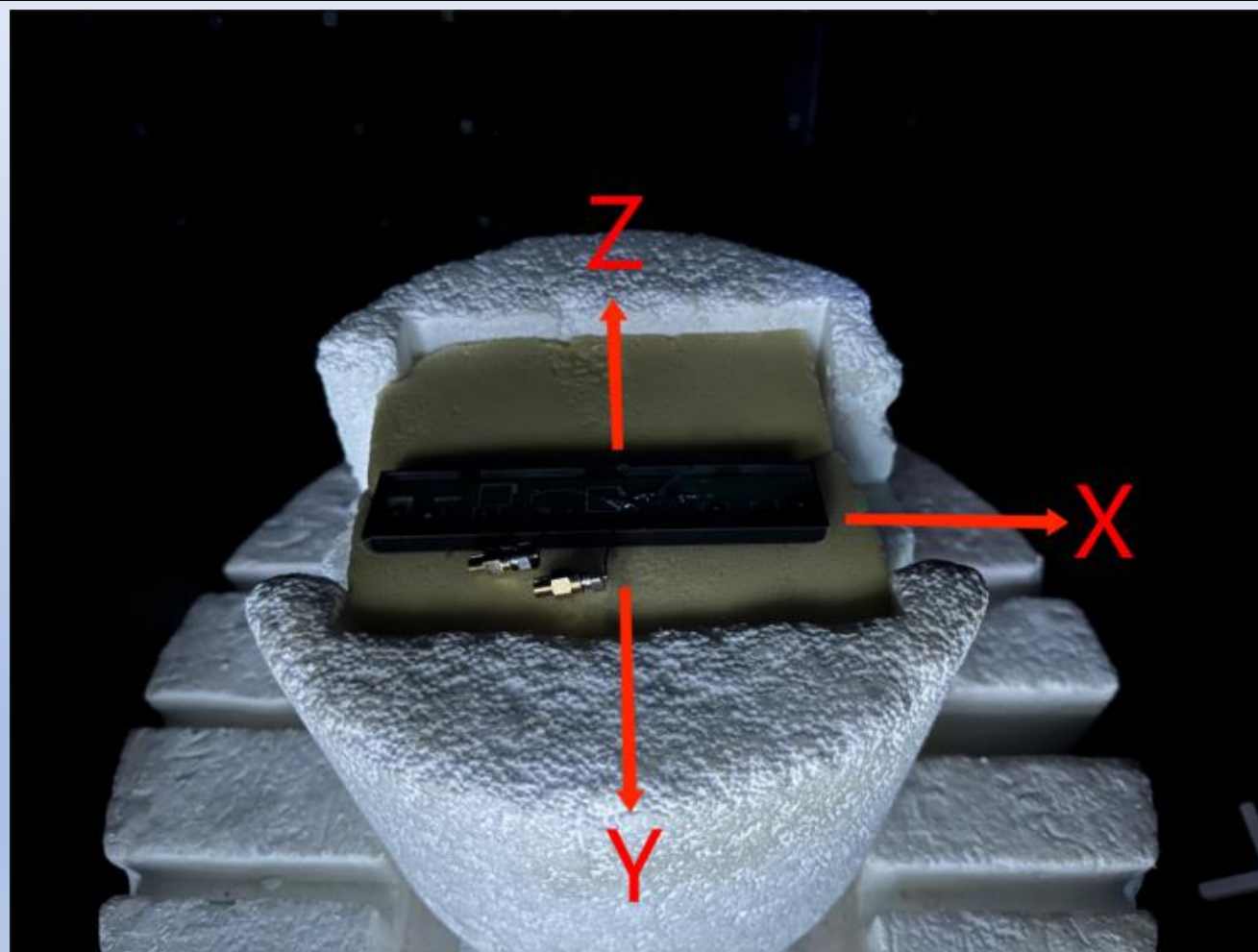
Project name: **WKCT16**

Date: **2023-06-06**



Wireless communication standard:2G/3G/4G/5G(FR1)/GNSS/Wi-Fi/Bluetooth
Internet of Things communication standards:LTE Cat NB1(NB-IoT)/Cat-M1(e-MTC)
SISO test TRP/TIS/EIRP/EIS,2x2 MIMO Throughput test
Passive antenna test,Desense ,test ICS
Support 600MHz-7.5GHz frequency
GTS MaxSign 100 test software support antenna/OTA test, Provide visual data analysis
New EPP rigid and environmentally friendly absorbing material.
Low RCS high gain measurement antenna set , Transparent turntable and fixture
MIMO test fastly. Certification level test accuracy.
Integrated design,use and maintenance is simply.

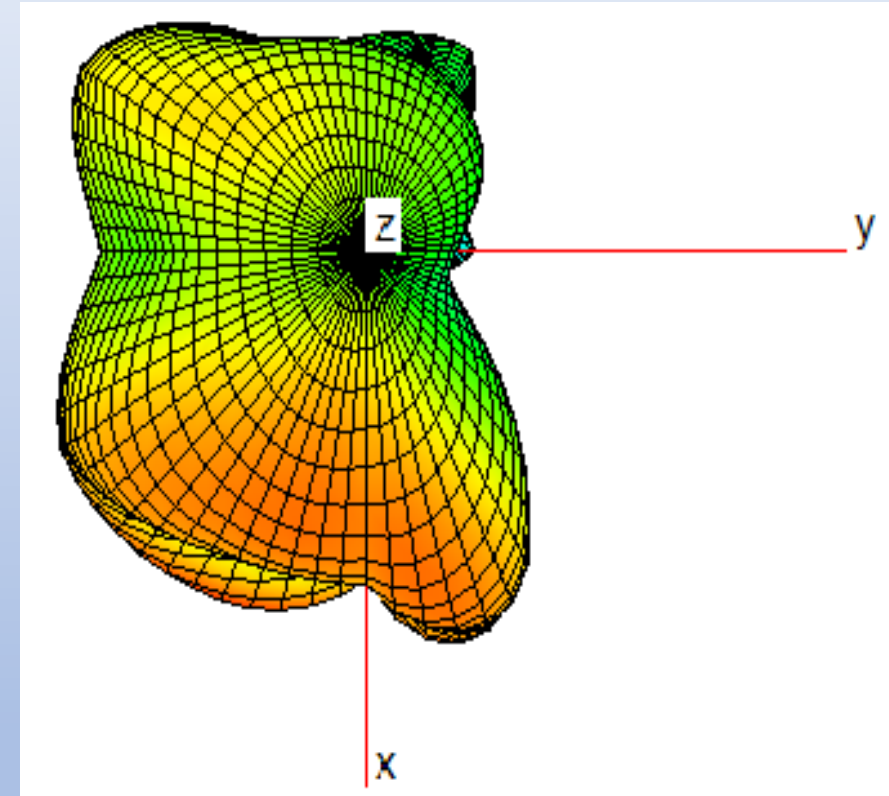
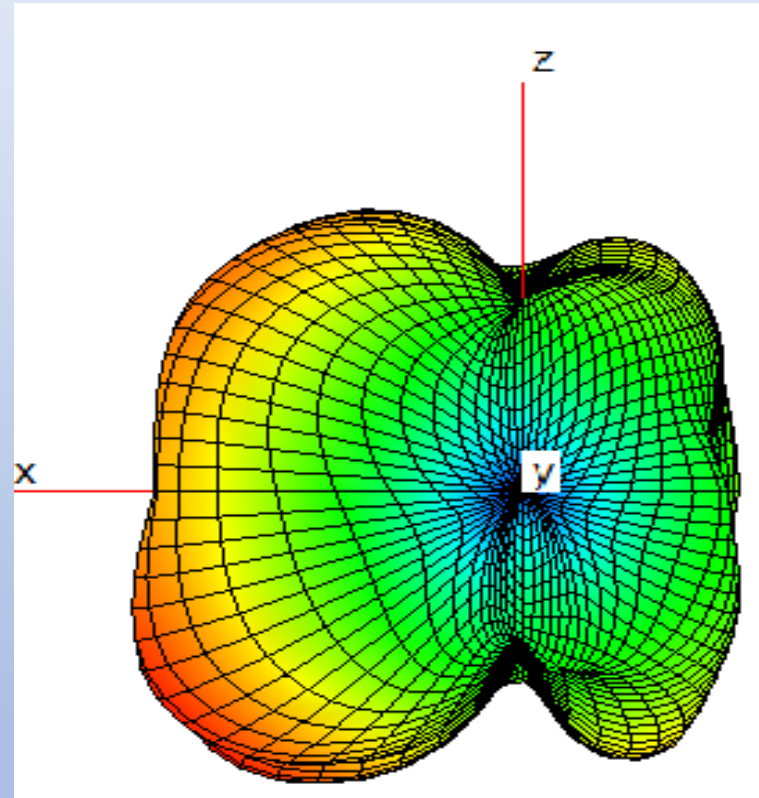
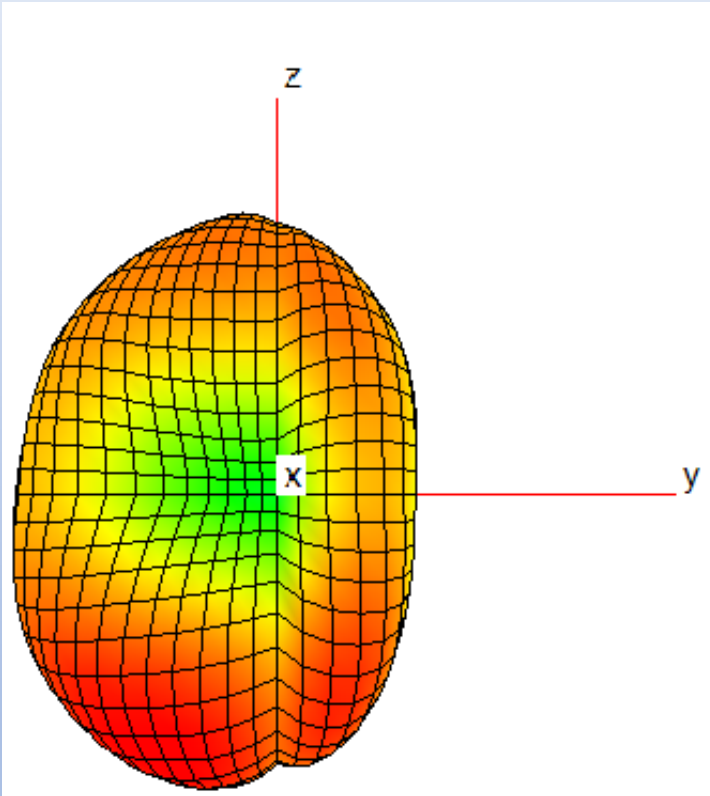
校准设备表	测试仪器	制造商	型号	系列号	校准日期	校准过期日期
	网络分析仪	Keysight	E5071C	MY47002902	2023.04.01	2024.03.30
	CMW500天线测试系统	GTS	1800	/	2023.04.01	2024.03.30



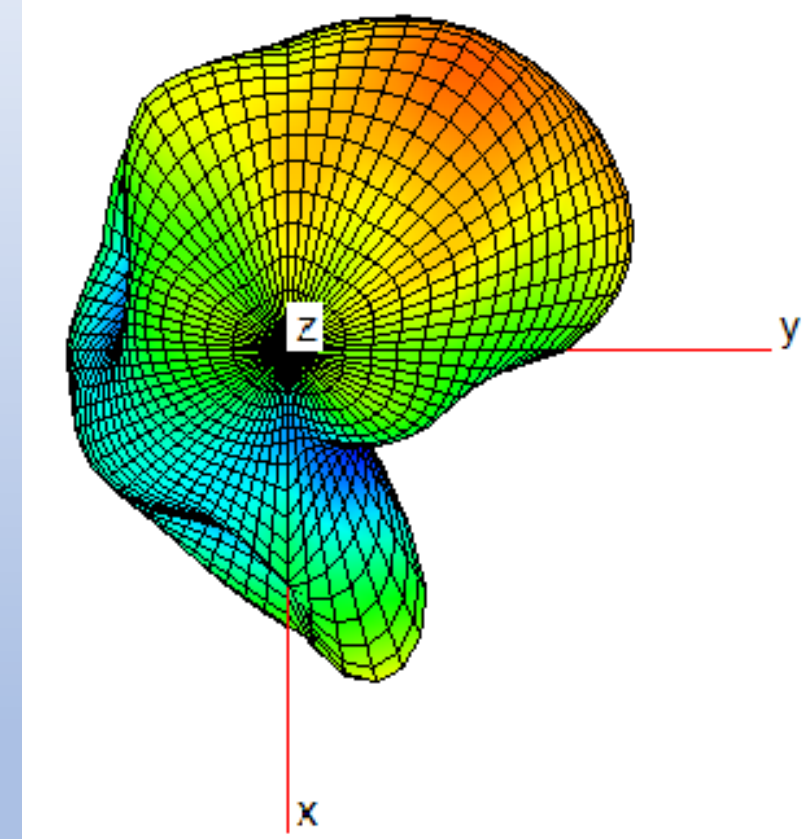
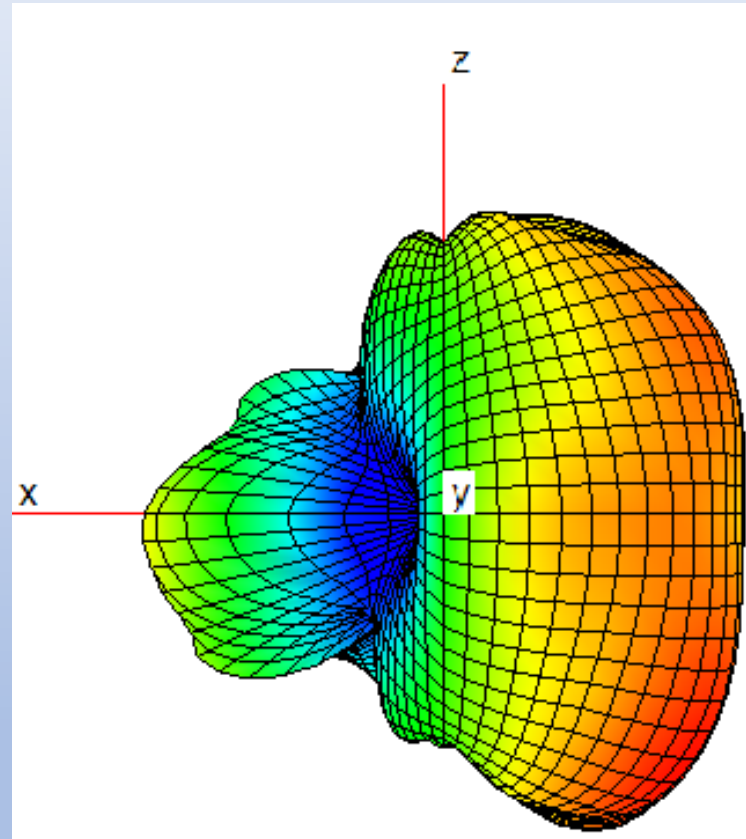
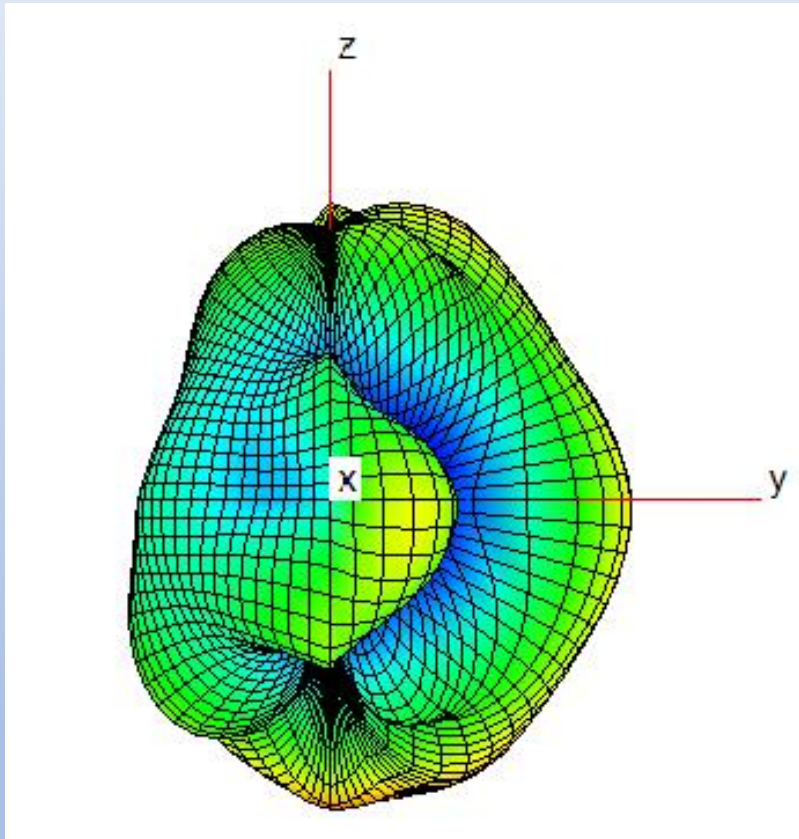


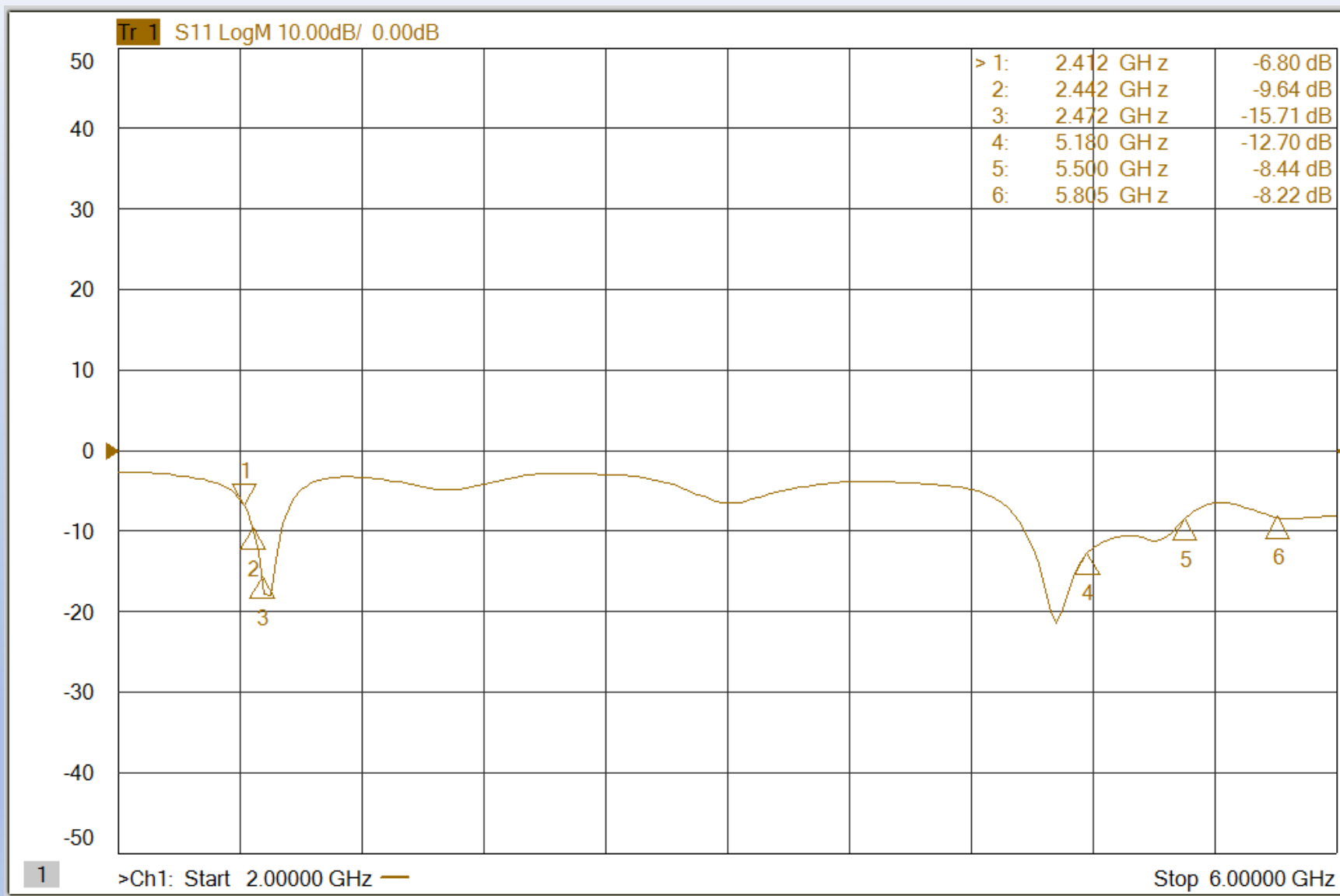
WIFI-0 2.4G				WIFI-0 5.8G			
Freq	EfficiencydB	EfficiencyPcent	Gain	Freq	EfficiencydB	EfficiencyPcent	Gain
2300	-8.02	15.76	-3.9	5150	-5.41	28.75	-1.78
2310	-7.89	16.25	-3.86	5175	-5.15	30.52	-1.41
2320	-7.47	17.91	-3.37	5200	-4.86	32.65	-1.06
2330	-7.19	19.11	-3.04	5225	-4.63	34.47	-0.77
2340	-6.9	20.4	-2.76	5250	-4.5	35.52	-0.37
2350	-6.61	21.84	-2.37	5275	-4.58	34.86	-0.15
2360	-6.3	23.46	-2.05	5300	-4.55	35.06	0.18
2370	-5.94	25.44	-1.78	5325	-4.48	35.68	0.5
2380	-5.56	27.79	-1.37	5350	-4.27	37.39	0.93
2390	-5.33	29.31	-1.06	5375	-4.07	39.19	1.16
2400	-5.05	31.27	-0.83	5400	-4.03	39.58	1.46
2410	-4.8	33.11	-0.62	5425	-4.1	38.88	1.5
2420	-4.47	35.74	-0.24	5450	-4.39	36.42	1.21
2430	-4.11	38.78	0.11	5475	-4.71	33.82	0.78
2440	-3.91	40.64	0.27	5500	-4.93	32.14	0.33
2450	-3.74	42.31	0.46	5525	-5	31.6	0.27
2460	-3.57	43.93	0.56	5550	-5.1	30.9	0.35
2470	-3.43	45.36	0.66	5575	-5.02	31.47	0.34
2480	-3.34	46.35	0.66	5600	-5.07	31.1	0.21
2490	-3.36	46.13	0.65	5625	-4.92	32.23	0.42
2500	-3.39	45.78	0.5	5650	-4.83	32.85	0.45
2510	-3.47	45	0.38	5675	-4.9	32.38	0.17
2520	-3.61	43.59	0.26	5700	-4.84	32.84	0.26
2530	-3.82	41.5	-0.05	5725	-4.81	33.04	0.25
2540	-4.12	38.75	-0.5	5750	-4.66	34.17	0.31
2550	-4.43	36.07	-0.86	5775	-4.61	34.56	0.37
2560	-4.76	33.45	-1.22	5800	-4.54	35.19	0.51
2570	-5.09	30.96	-1.61	5825	-4.49	35.52	0.58
2580	-5.52	28.03	-2.07	5850	-4.46	35.79	0.6
2590	-5.97	25.3	-2.55				
2600	-6.36	23.13	-2.85				

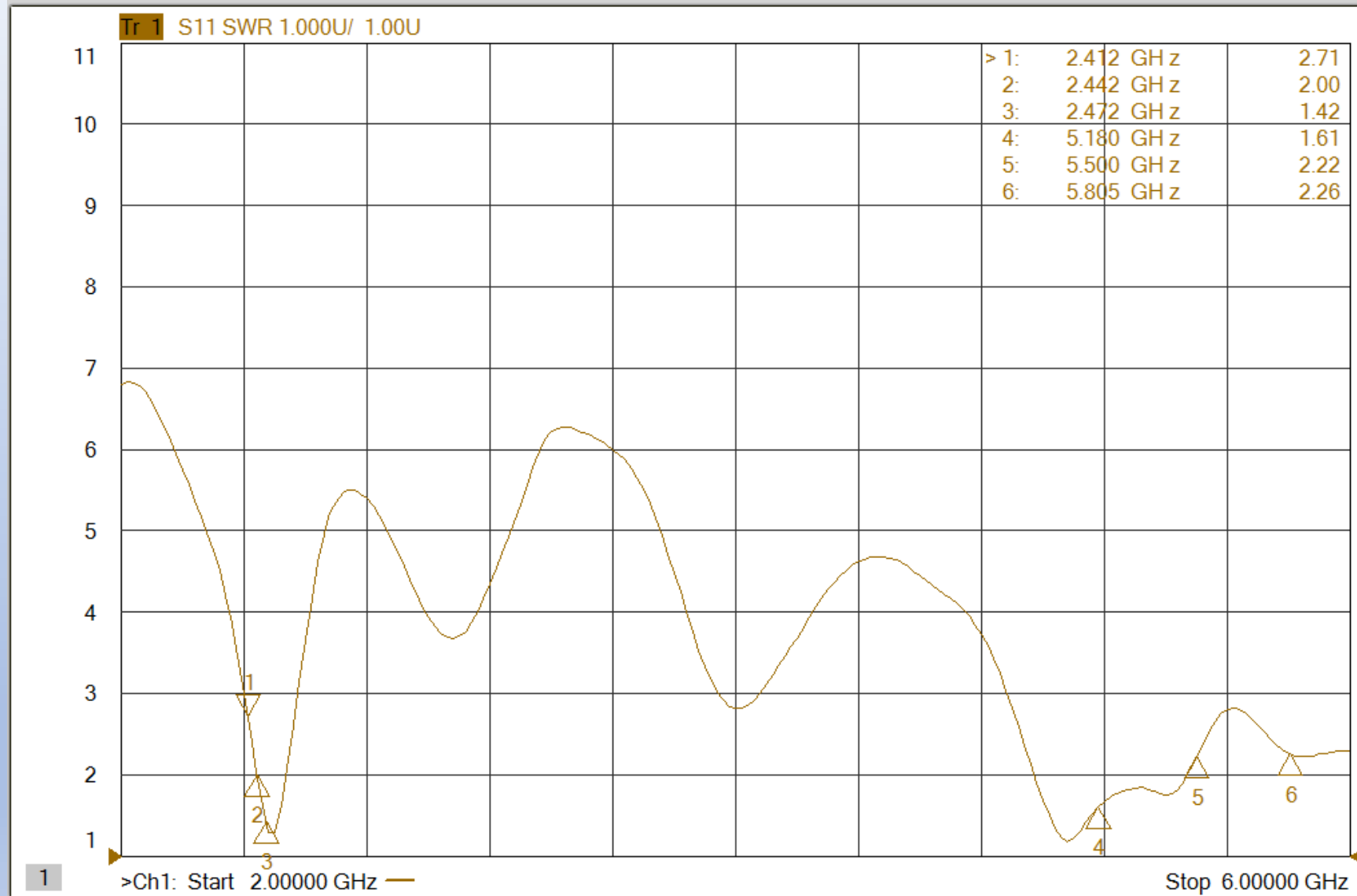
2450MHZ



5650MHZ





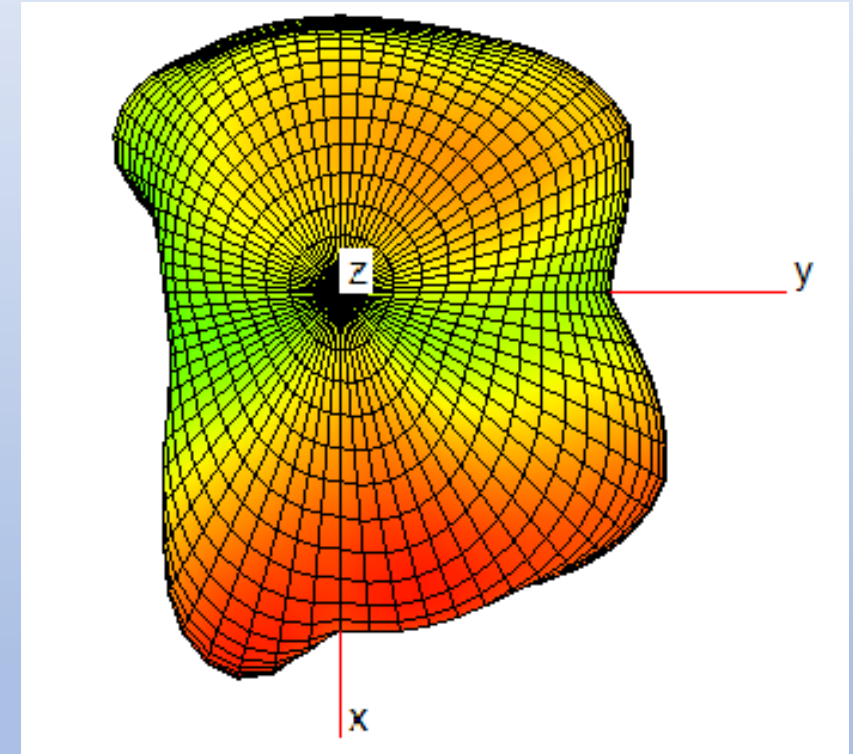
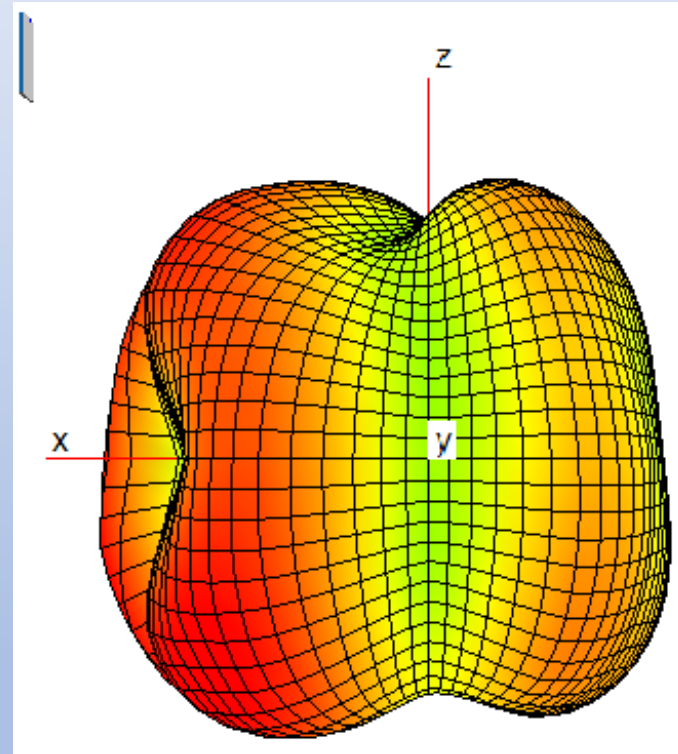
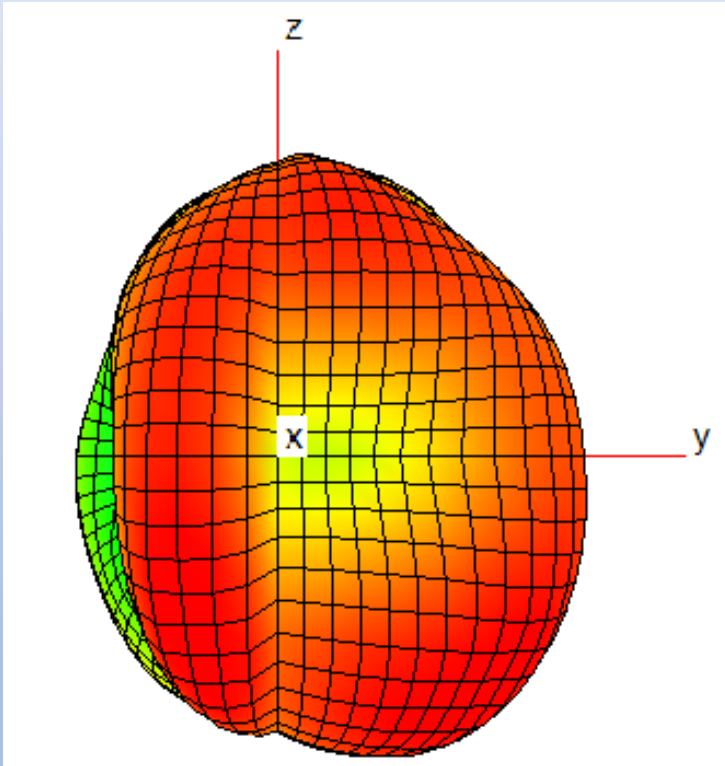




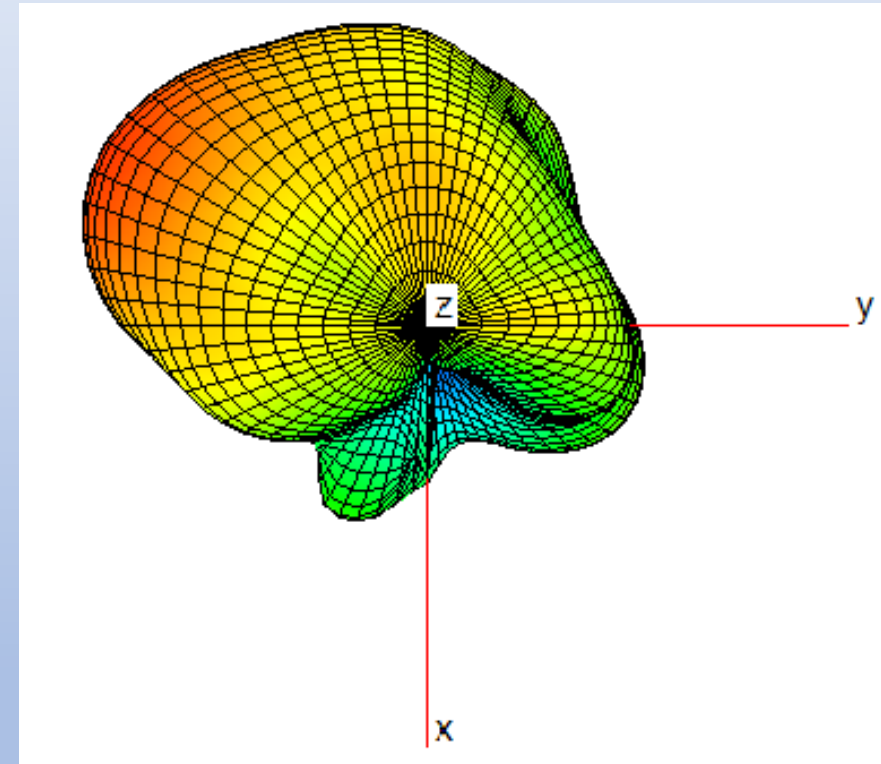
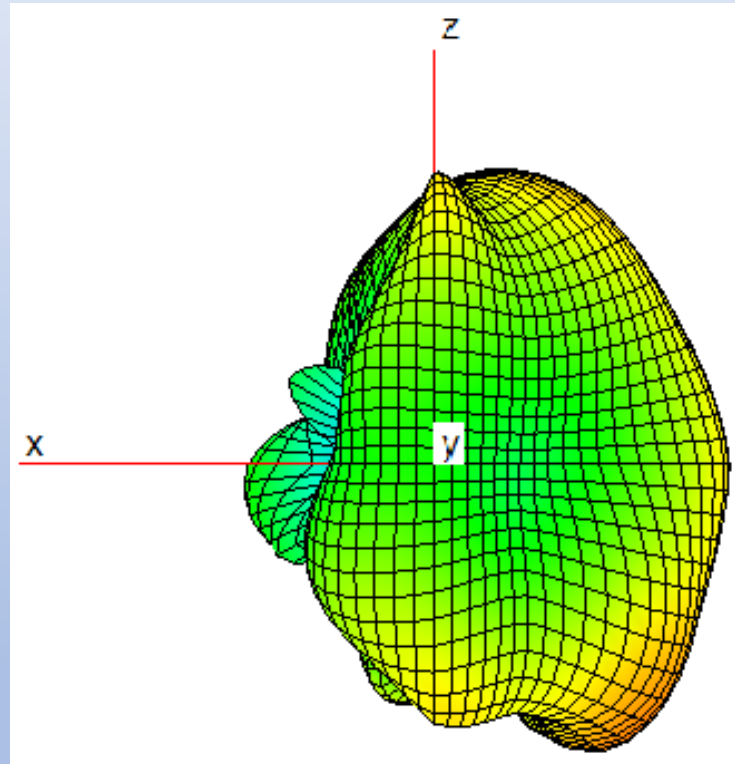
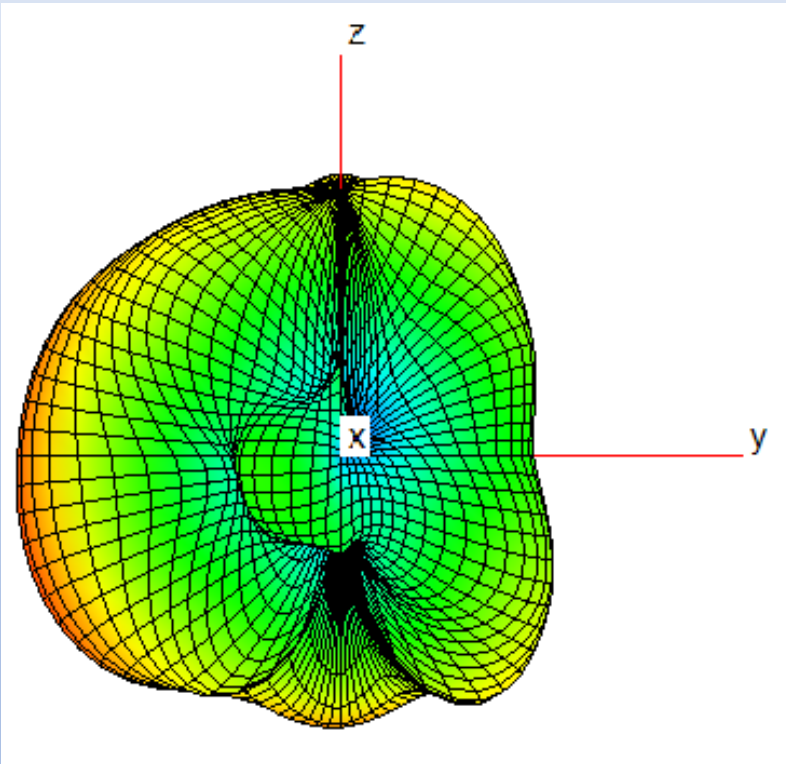
WIFI-1 2.4G			
Freq	EfficiencydB	EfficiencyPcent	Gain
2300	-6.73	21.25	-2.46
2310	-6.65	21.61	-2.25
2320	-6.36	23.12	-1.98
2330	-6.02	24.99	-1.54
2340	-5.77	26.46	-1.31
2350	-5.5	28.21	-1.03
2360	-5.26	29.79	-0.68
2370	-5.03	31.44	-0.58
2380	-4.64	34.33	-0.13
2390	-4.41	36.24	0.08
2400	-4.2	38.01	0.22
2410	-4.01	39.73	0.39
2420	-3.84	41.33	0.56
2430	-3.59	43.73	0.69
2440	-3.38	45.88	0.8
2450	-3.28	46.98	0.79
2460	-3.17	48.16	0.87
2470	-3.11	48.9	0.94
2480	-3	50.11	0.96
2490	-2.92	51.04	0.94
2500	-2.9	51.26	0.93
2510	-2.87	51.69	0.96
2520	-2.89	51.44	0.85
2530	-2.9	51.3	0.81
2540	-2.96	50.63	0.68
2550	-3.07	49.34	0.61
2560	-3.2	47.83	0.41
2570	-3.36	46.13	0.28
2580	-3.6	43.65	-0.08
2590	-3.87	41.06	-0.33
2600	-4.17	38.28	-0.77

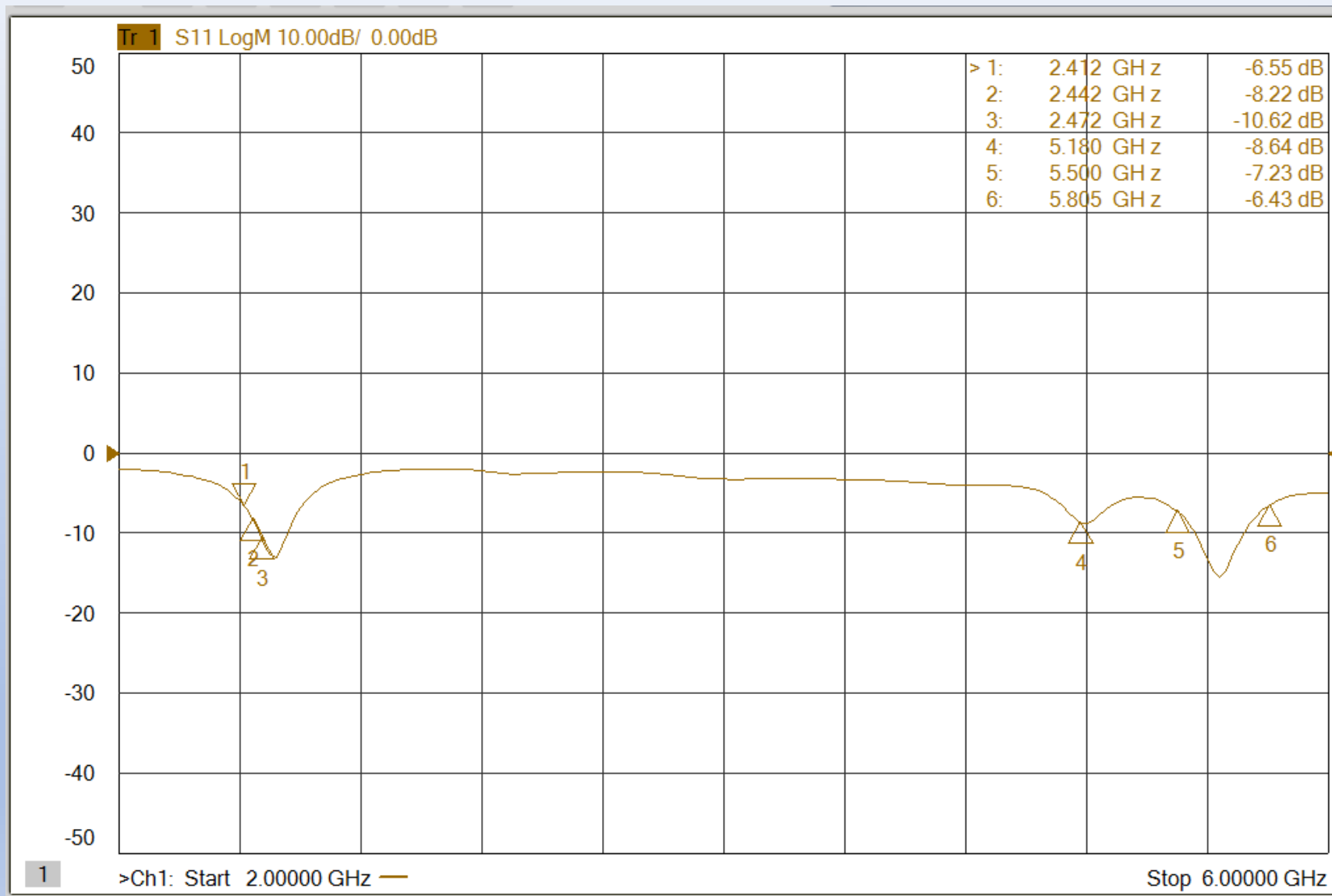
WIFI-1 5.8G			
Freq	EfficiencydB	EfficiencyPcent	Gain
5150	-4.82	32.92	-0.81
5175	-4.32	37	-0.11
5200	-3.83	41.41	0.46
5225	-3.5	44.63	0.88
5250	-3.45	45.17	1.07
5275	-3.65	43.18	1.06
5300	-3.73	42.32	1.26
5325	-3.77	41.95	1.16
5350	-3.61	43.5	1.41
5375	-3.43	45.44	1.73
5400	-3.39	45.84	1.73
5425	-3.43	45.41	1.52
5450	-3.58	43.88	1.24
5475	-3.73	42.33	1.12
5500	-3.79	41.8	1.42
5525	-3.65	43.19	1.57
5550	-3.52	44.46	1.95
5575	-3.22	47.67	2.4
5600	-3.05	49.5	2.62
5625	-2.82	52.29	2.98
5650	-2.66	54.22	3.21
5675	-2.69	53.84	3.25
5700	-2.63	54.62	3.37
5725	-2.65	54.38	3.41
5750	-2.58	55.23	3.53
5775	-2.6	54.94	3.43
5800	-2.64	54.47	3.29
5825	-2.71	53.56	3.12
5850	-2.75	53.11	3.1

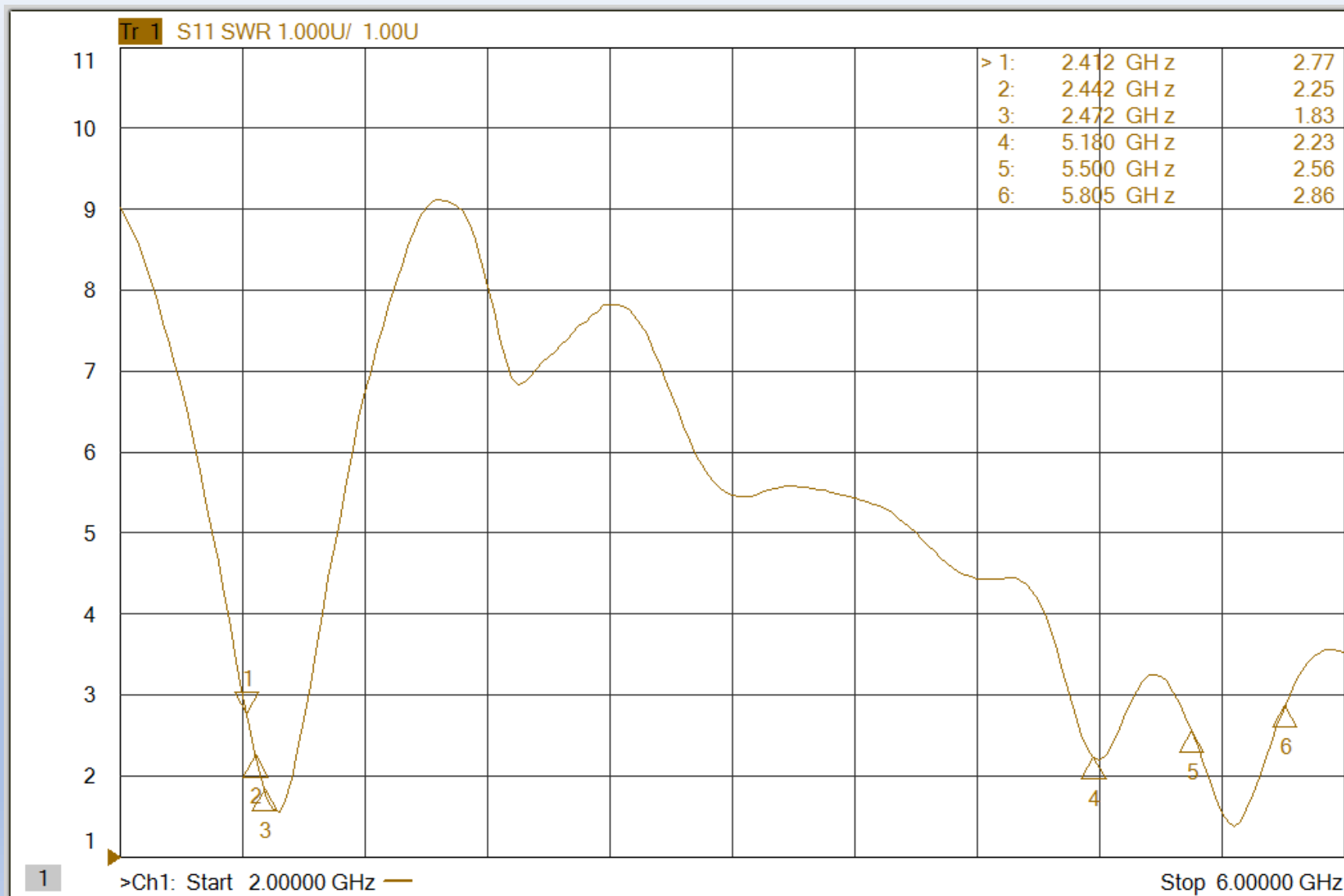
2450MHZ



5650MHZ



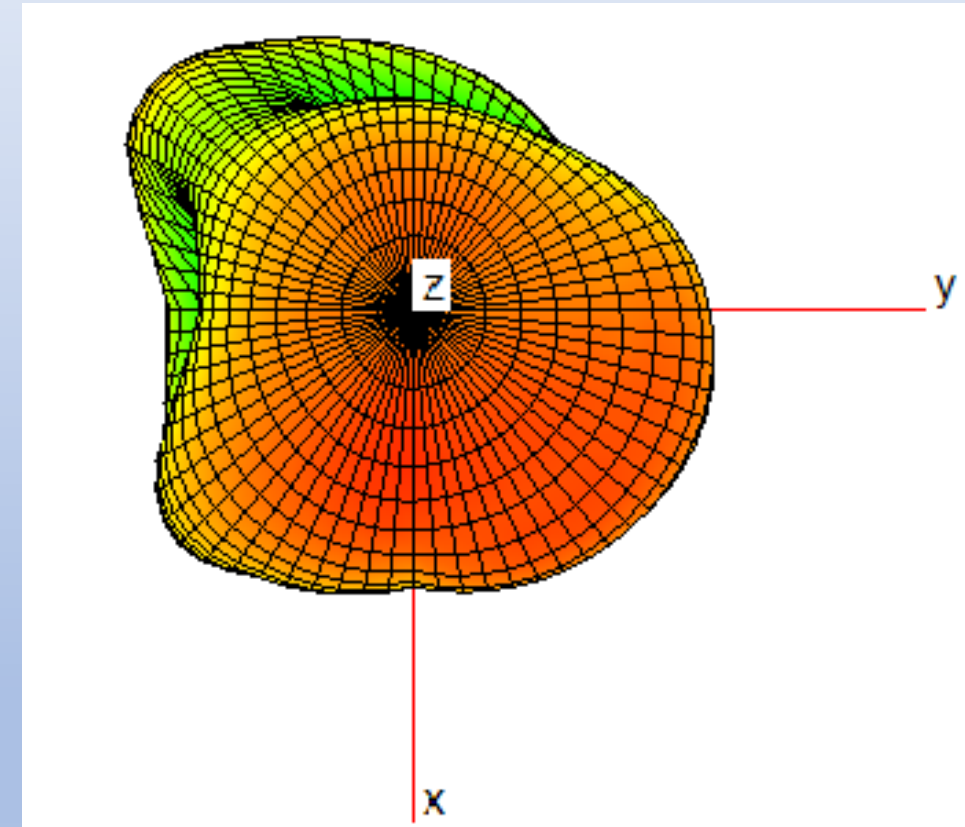
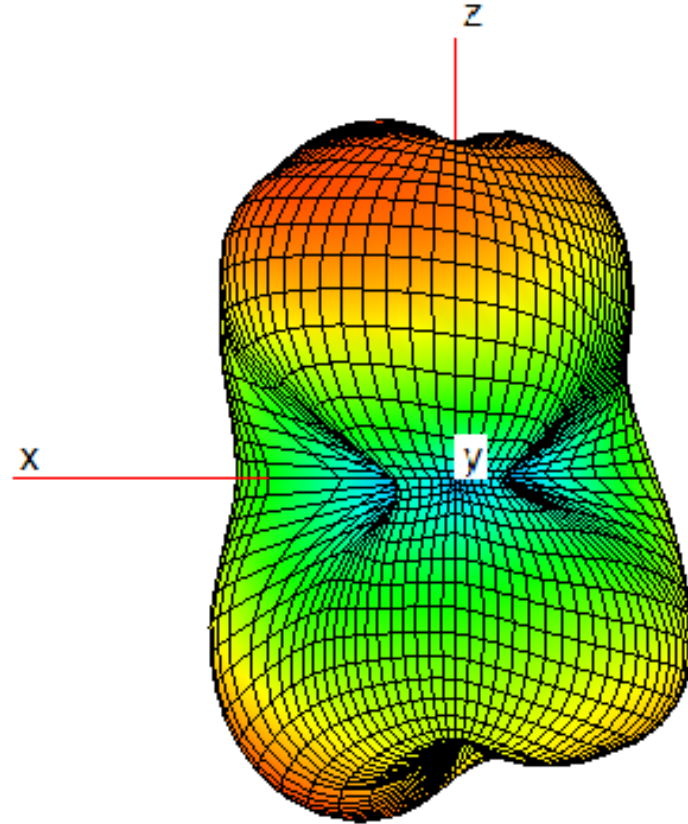
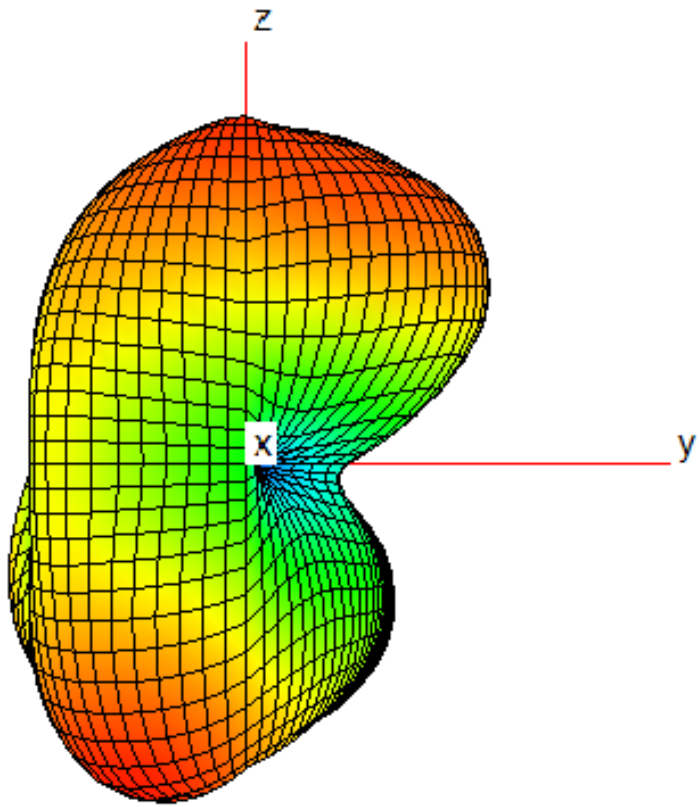


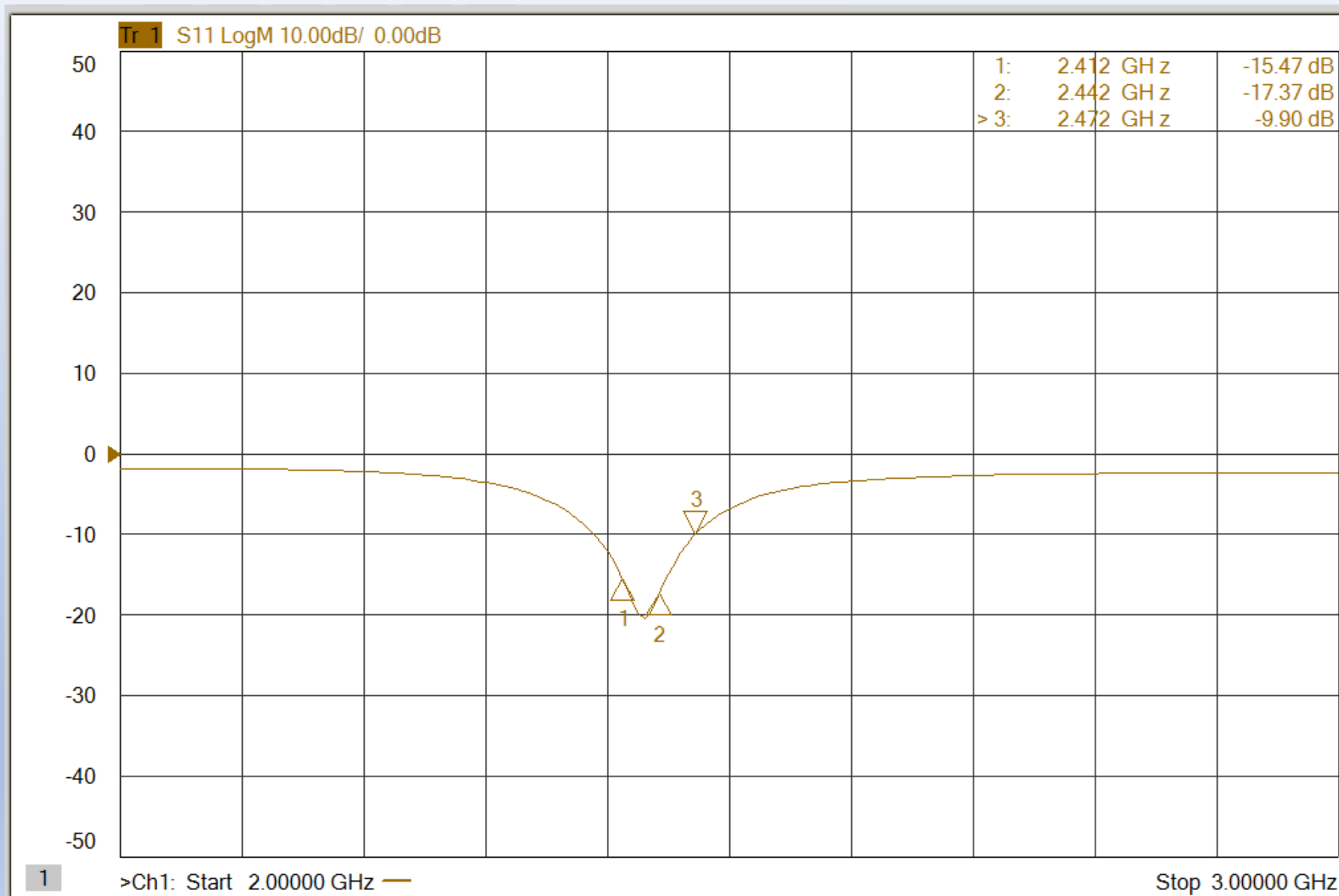


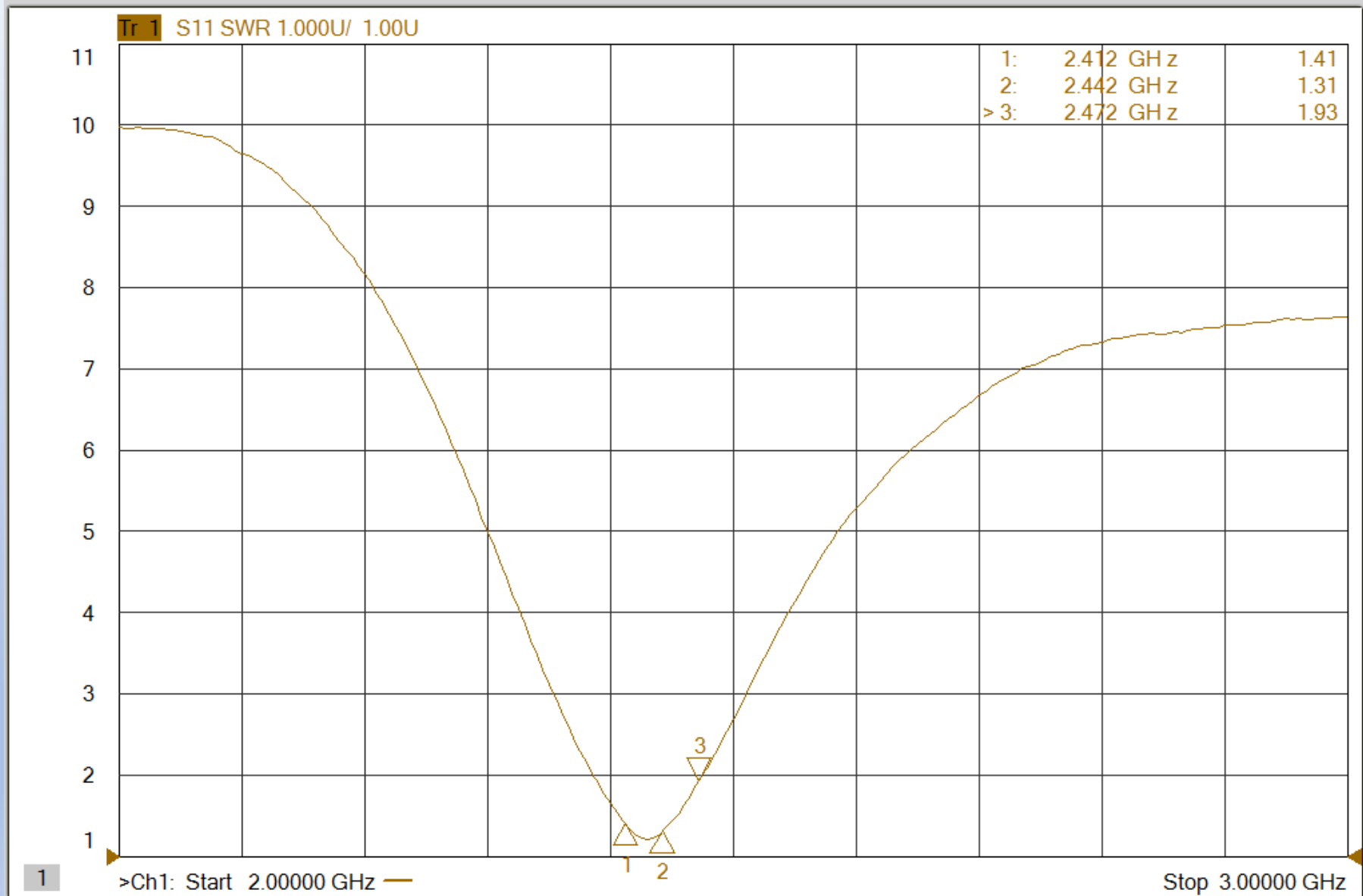


BT			
Freq	EfficiencydB	EfficiencyPcent	Gain
2300	-4.75	33.53	-0.1
2310	-4.47	35.72	0.24
2320	-4.26	37.48	0.42
2330	-3.95	40.31	0.79
2340	-3.63	43.37	1.07
2350	-3.35	46.26	1.31
2360	-2.99	50.19	1.73
2370	-2.8	52.42	1.73
2380	-2.56	55.53	1.98
2390	-2.3	58.87	2.26
2400	-2.09	61.83	2.46
2410	-1.91	64.48	2.73
2420	-1.74	67.02	2.97
2430	-1.68	67.96	3.18
2440	-1.66	68.24	3.32
2450	-1.72	67.23	3.44
2460	-1.86	65.13	3.38
2470	-2.04	62.53	3.27
2480	-2.24	59.66	3.21
2490	-2.5	56.18	2.96
2500	-2.79	52.57	2.78
2510	-3.07	49.33	2.51
2520	-3.39	45.78	2.19
2530	-3.7	42.69	1.92
2540	-3.99	39.94	1.63
2550	-4.35	36.73	1.23
2560	-4.69	33.96	0.77
2570	-5.05	31.29	0.47
2580	-5.45	28.54	-0.08
2590	-5.8	26.32	-0.55
2600	-6.21	23.91	-0.93

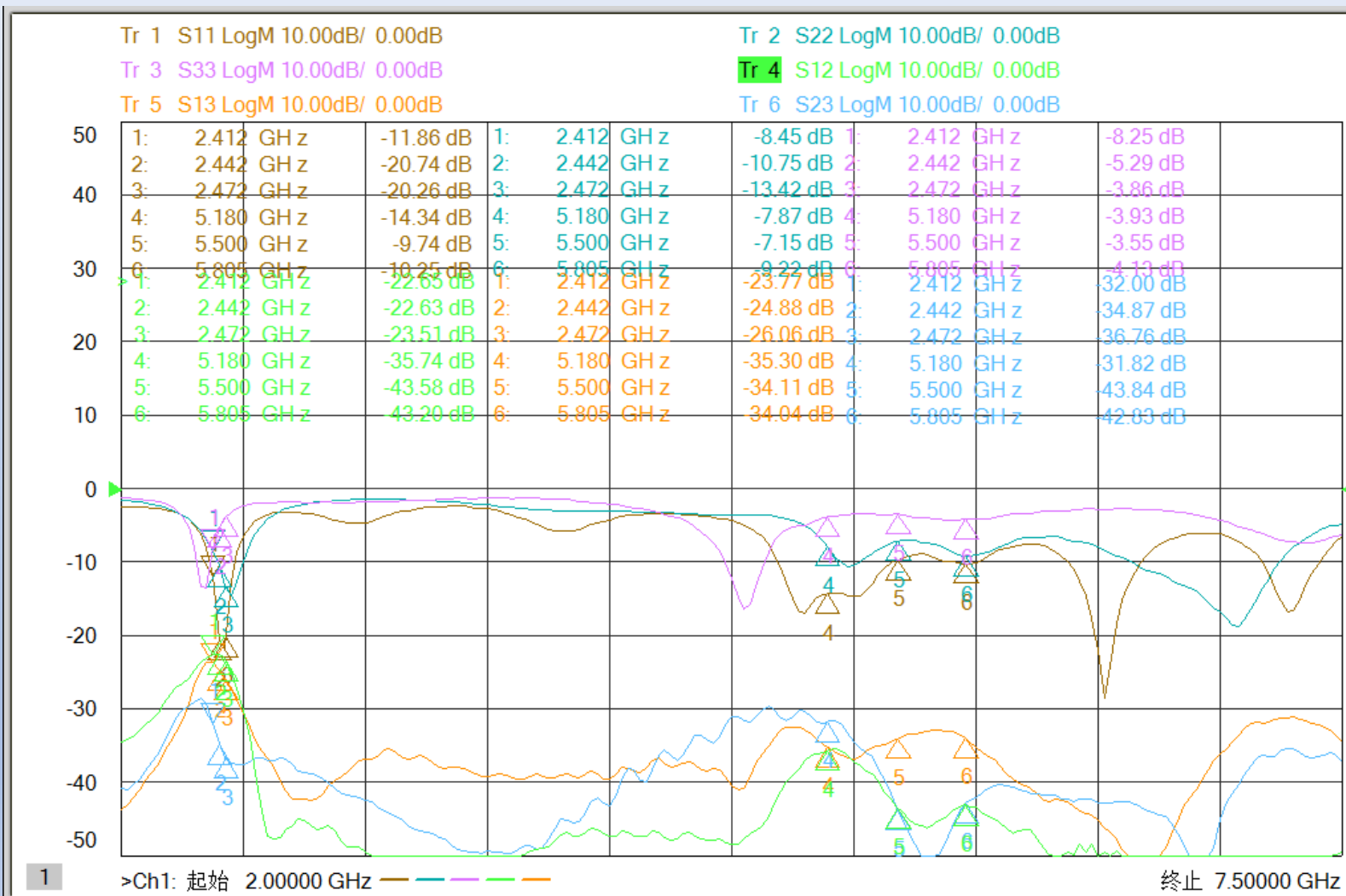
2450MHZ







WIFI-0-Tr 1 S11 WIFI-1-Tr 2 S22 BT-Tr 3 S33





深圳汉阳天线设计有限公司

SHENZHEN HANYANG ANTENNA DESIGN CO., LTD.

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Welcome calls consultations, negotiations and guidance come!

Thank you

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Tel: 0755-23069700

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