



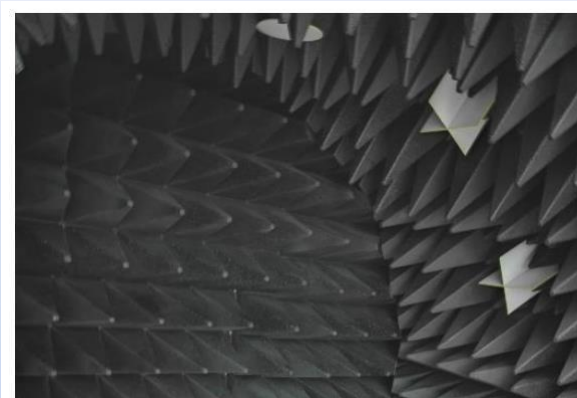
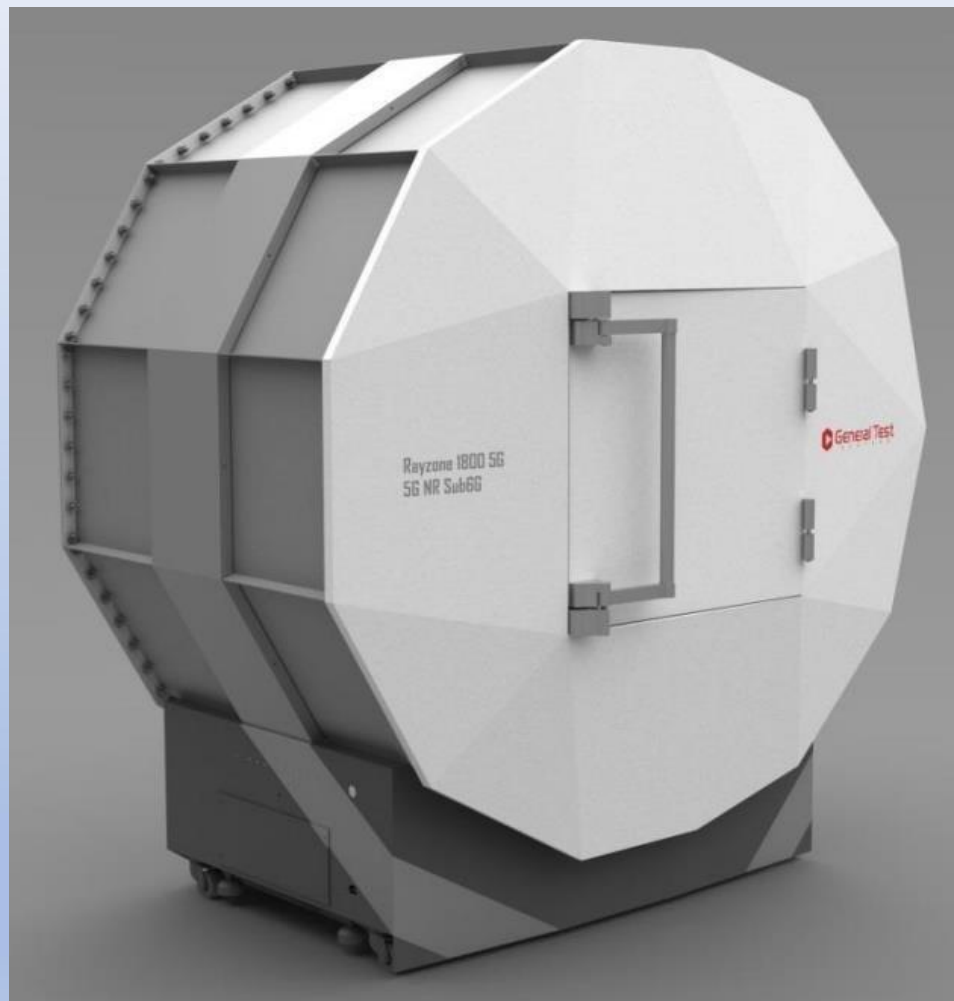
深圳汉阳天线设计有限公司

SHENZHEN HANYANG ANTENNA DESIGN CO.LTD.

Customer: GSD

Antenna Test Report

Project name: CDXT03



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.

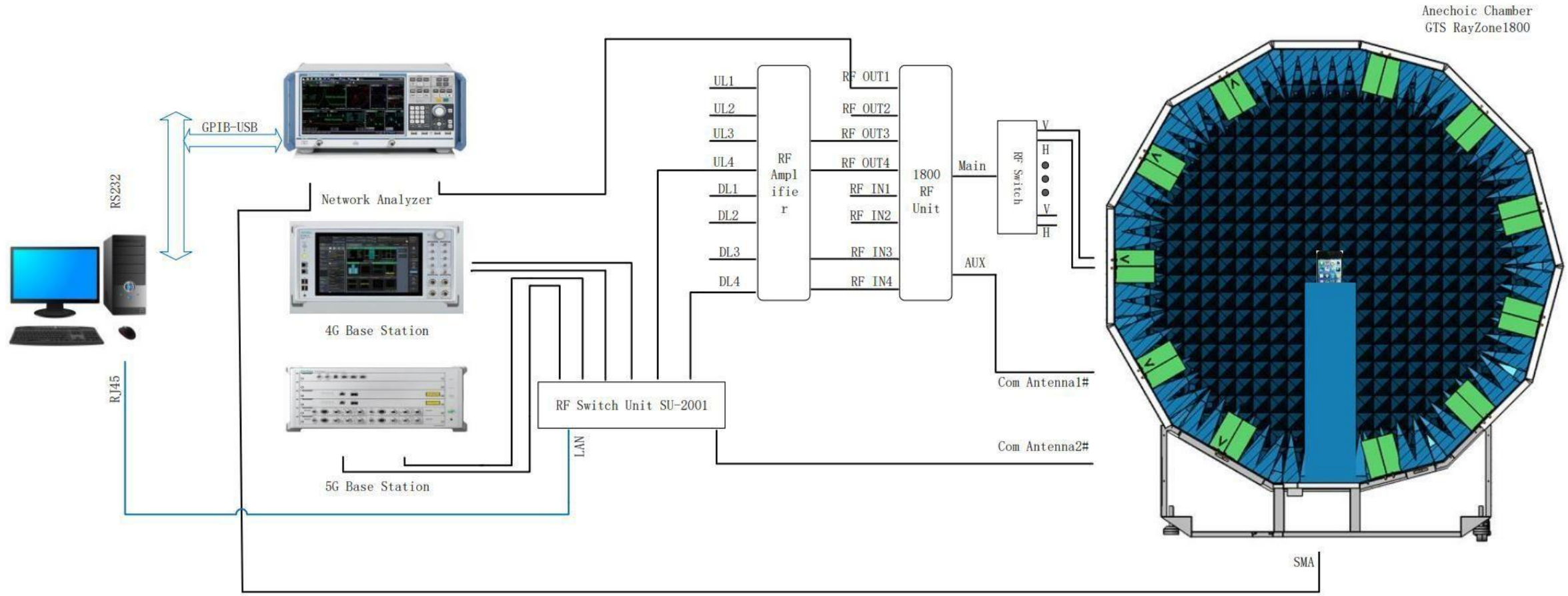
Low RCS high gain measurement antenna set, Transparent turntable and fixture

MIMO test fastly. Certification level test accuracy.

Integrated design, use and maintenance is simply.



RayZone1800 Test Setup





Address of the testing laboratory :Shenzhen Baoan District Qianjin 2 Road BaoYunda logistics information building 12A11

Test Date: 11/21/2023

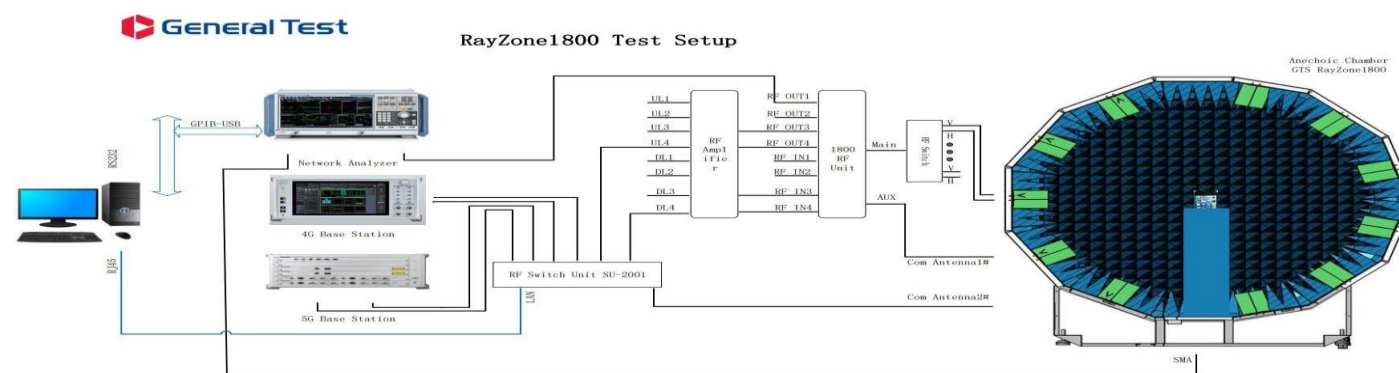
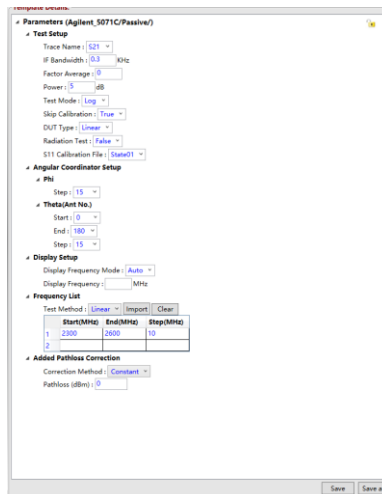
Test Engineer: Liu Deng

Software name and version: GTS_MAX SIGN Libra1.2.7

Cal Date:11/5/2023

Test Standard:Generic standard

Test set-up:

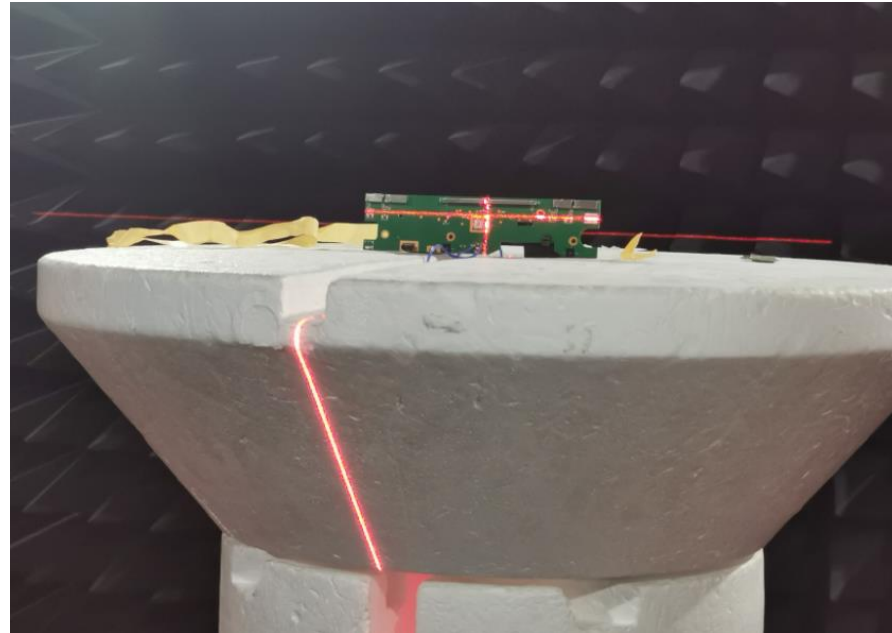


Test flow:

Equipment list

Equipment list	Equipment	Manufacturer	model	SN	Last cal.	Dul Date
	Network analyzer	Keysight	E5071C	MY47002902	2023.04.01	2024.03.30
	CMW antenna system	GTS	1800	/	2023.04.01	2024.03.30

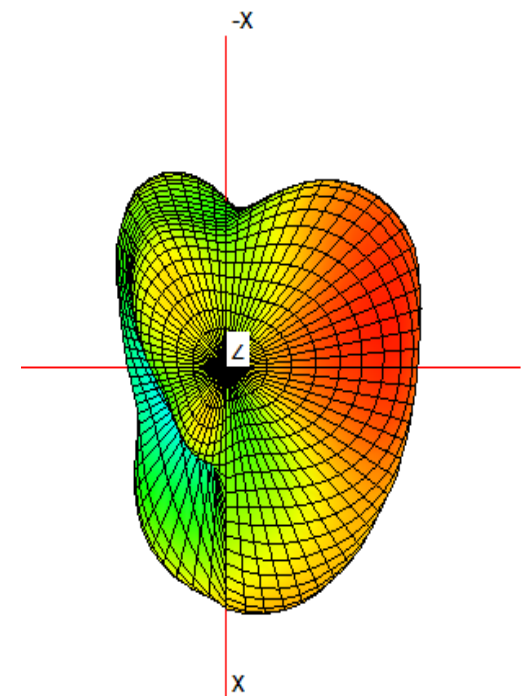
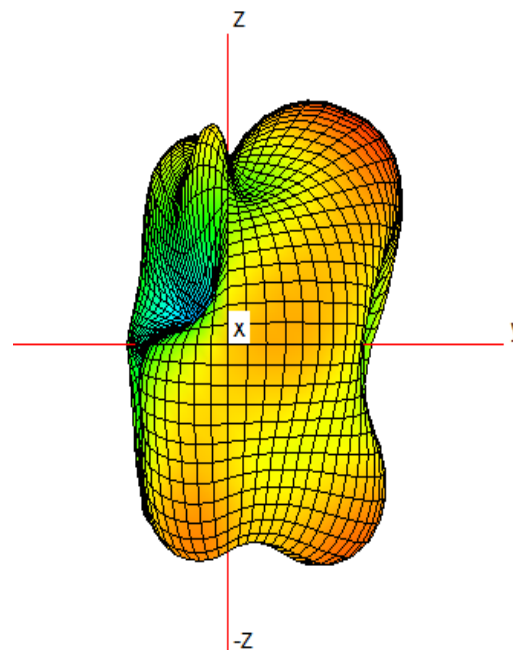
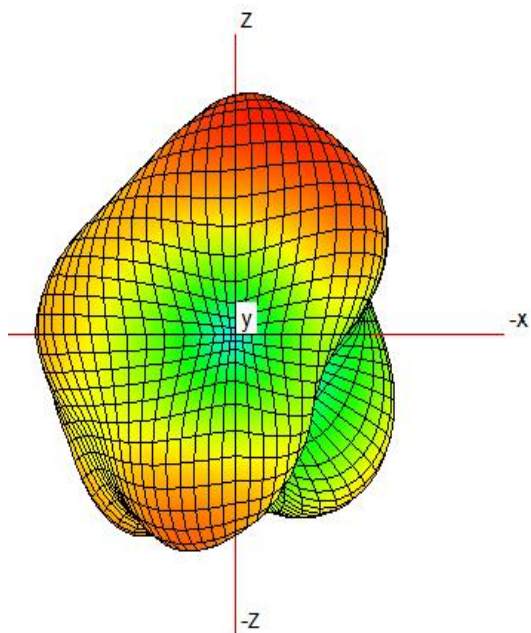
Test setup photo:

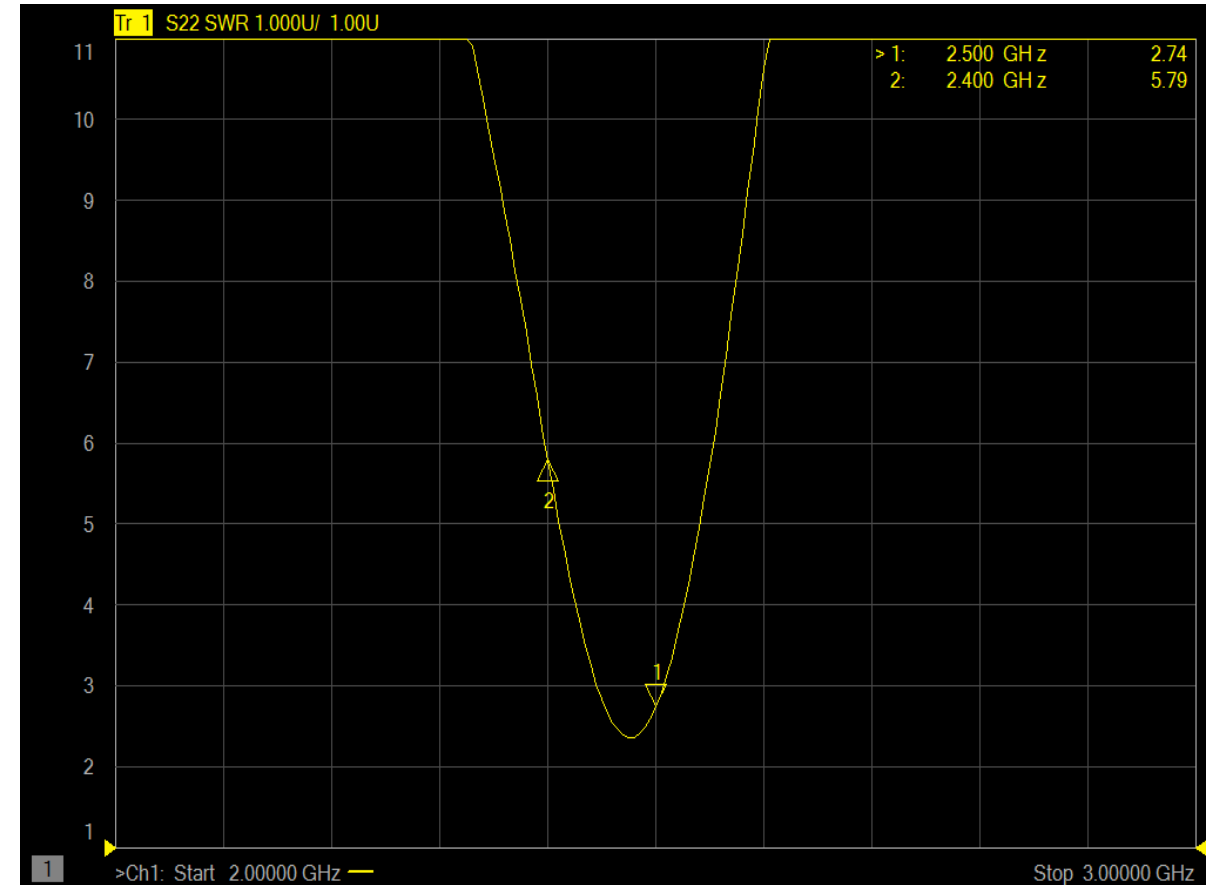
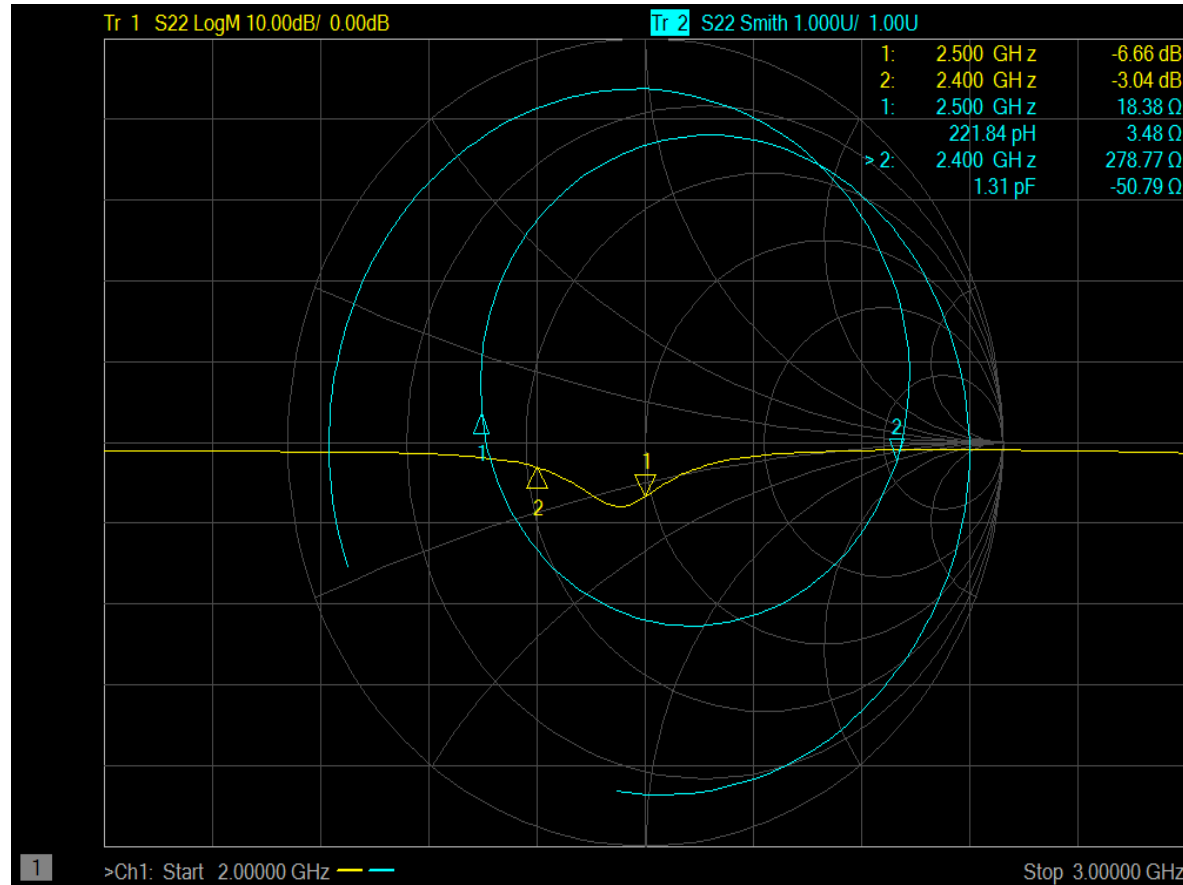


Passive Test For 2400-2500			
Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)
2400	-5.47	-2.42	28.37
2410	-5.14	-1.72	30.65
2420	-4.84	-1.18	32.81
2430	-4.57	-0.66	34.89
2440	-4.31	-0.14	37.04
2450	-4.19	0.13	38.12
2460	-4.11	0.3	38.81
2470	-4.11	0.3	38.78
2480	-4.18	0.1	38.22
2490	-4.31	-0.31	37.09
2500	-4.41	-0.75	36.19



2450MHZ

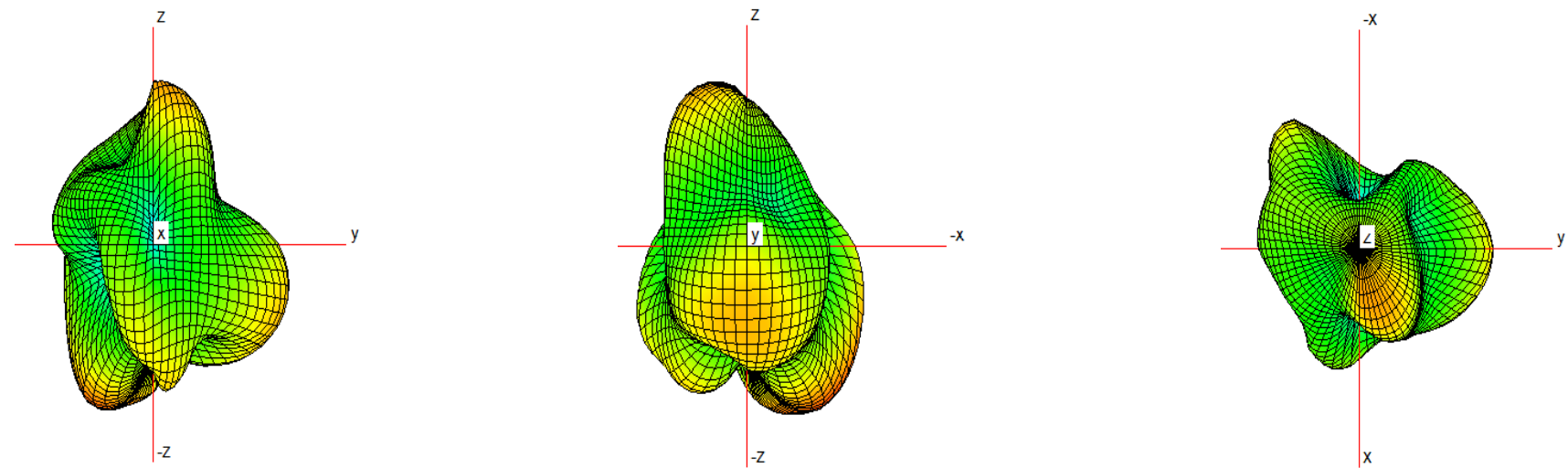




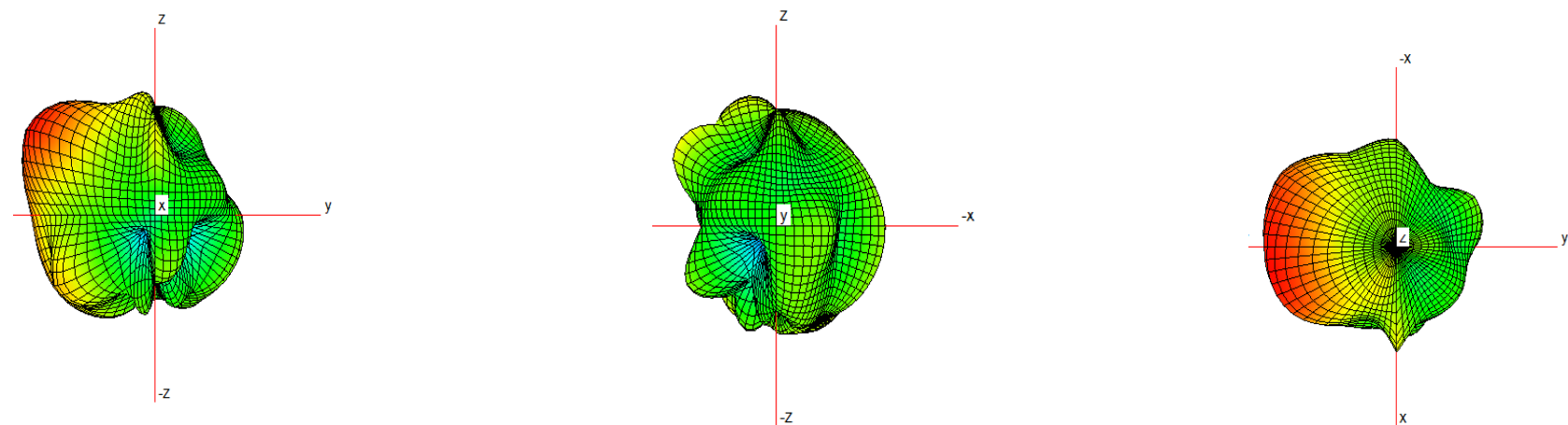
WiFi-1 天线 2.4G			
Passive Test For 2400-2500			
Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)
2400	-4.64	1.83	34.33
2410	-4.56	1.88	34.96
2420	-4.47	1.91	35.7
2430	-4.29	1.47	37.27
2440	-4.29	2.04	37.21
2450	-4.23	2.03	37.79
2460	-4.62	1.07	34.55
2470	-4.62	1.74	34.55
2480	-4.66	1.76	34.16
2490	-4.65	2.88	34.25
2500	-4.71	1.76	33.77

WiFi-1 天线 5.8G			
Passive Test For 5150-5850			
Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)
5150	-4.09	1.09	38.97
5220	-4.37	0.51	36.58
5290	-4.45	0.2	35.88
5360	-4.08	1.25	39.09
5430	-3.91	1.86	40.67
5500	-3.66	2.44	43.02
5570	-3.08	3.48	49.18
5640	-2.7	4.01	53.76
5710	-2.61	3.81	54.84
5780	-2.63	3.51	54.54
5850	-2.68	3.07	54

2450MHZ

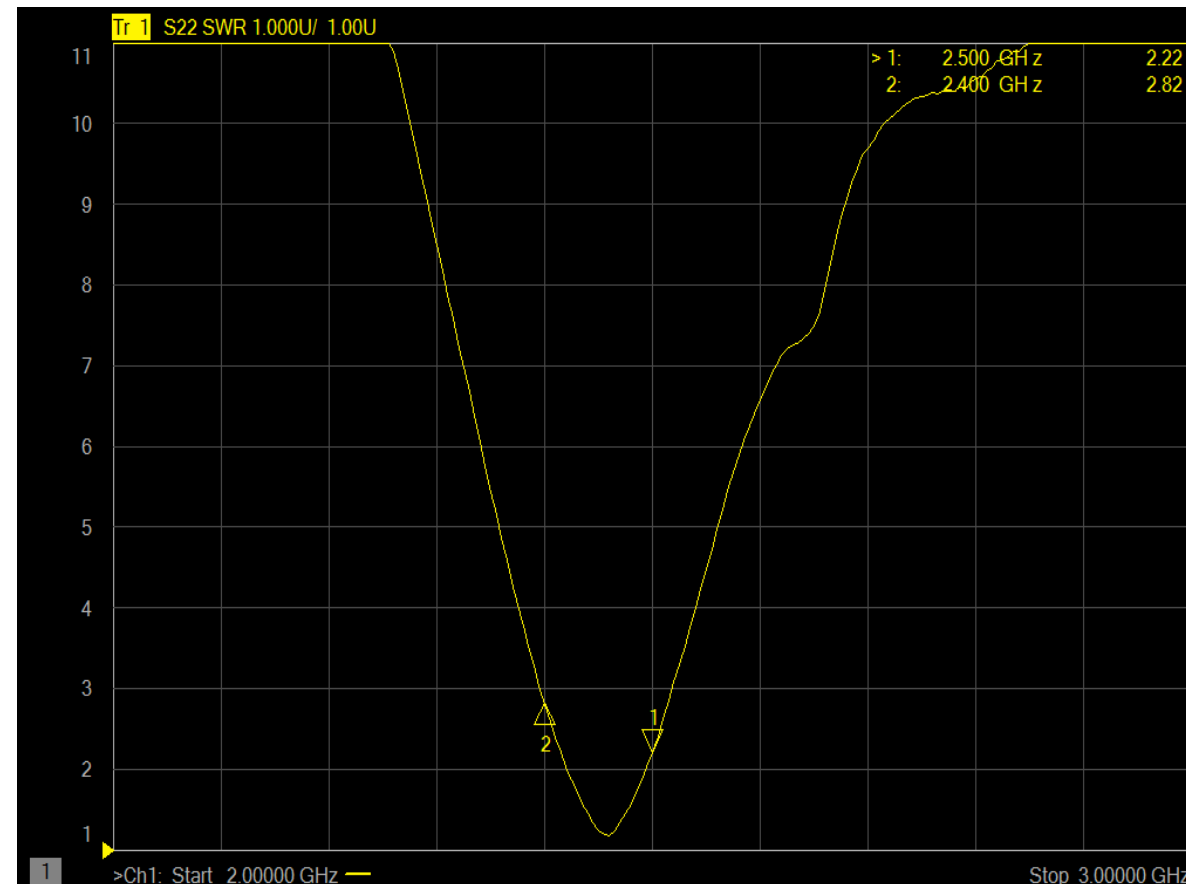
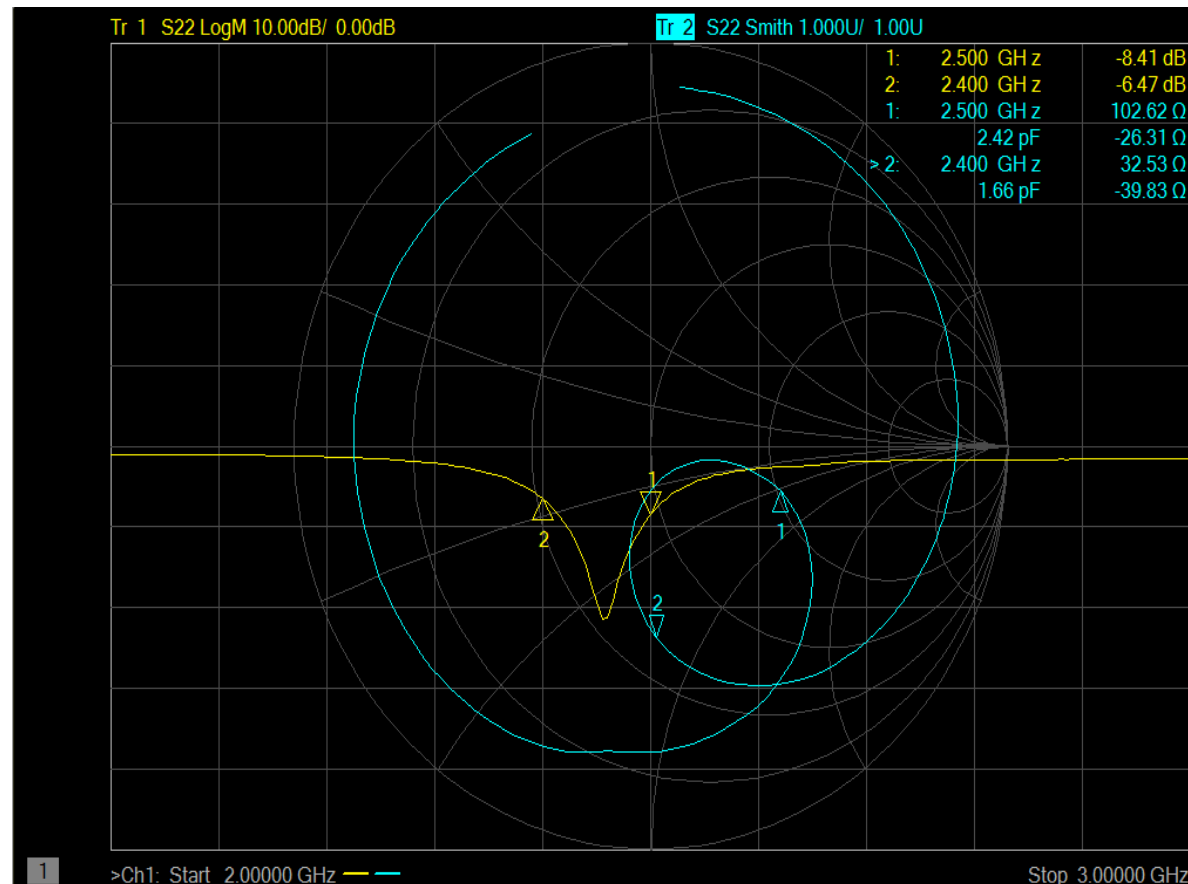


5650MHZ

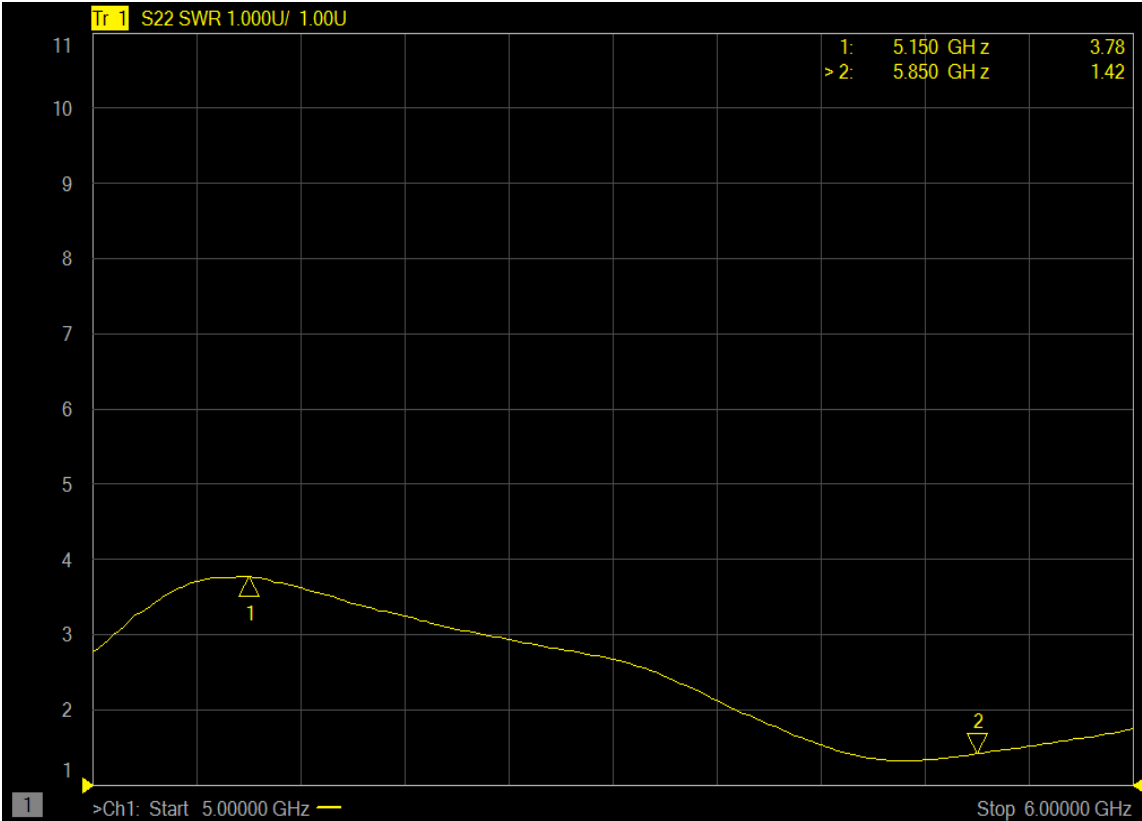
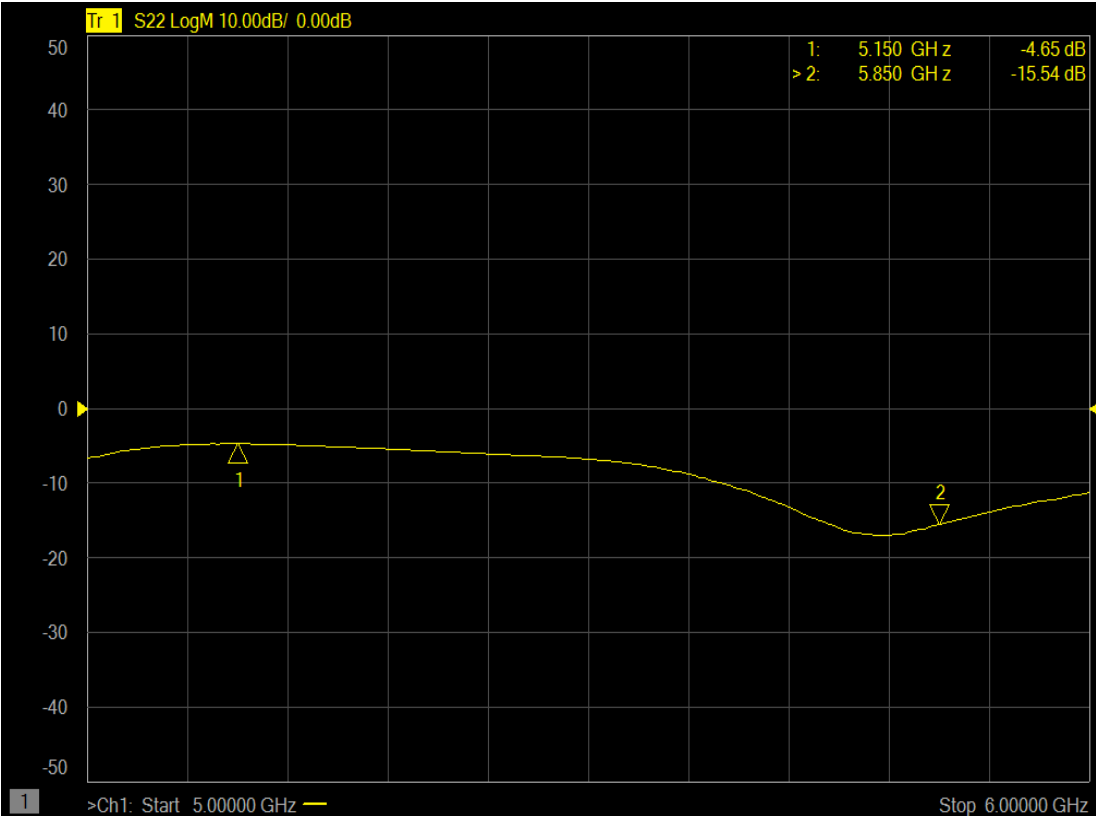




WiFi-1 2.4G



WiFi-1 5.8G





WiFi-2 天线 2.4G

Passive Test For 2400-2500

Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)
2400	-5.7	-2.22	31.93
2410	-5.24	-1.71	34.93
2420	-4.83	-1.23	37.85
2430	-4.49	-0.89	40.59
2440	-4.19	-0.67	43.07
2450	-4.05	-0.55	44.31
2460	-3.98	-0.34	44.95
2470	-4.02	-0.26	44.64
2480	-4.16	-0.33	43.35
2490	-4.38	-0.49	41.44
2500	-4.57	-0.58	39.9

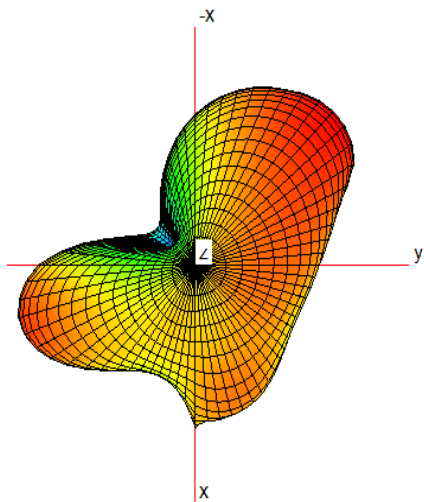
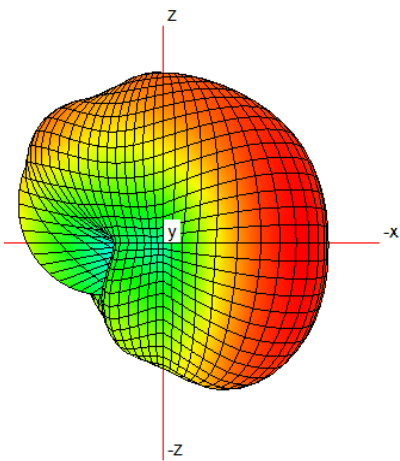
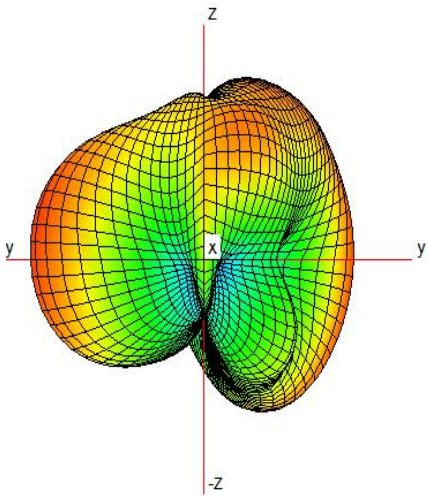
WiFi-2 天线 5.8G

Passive Test For 5150-5850

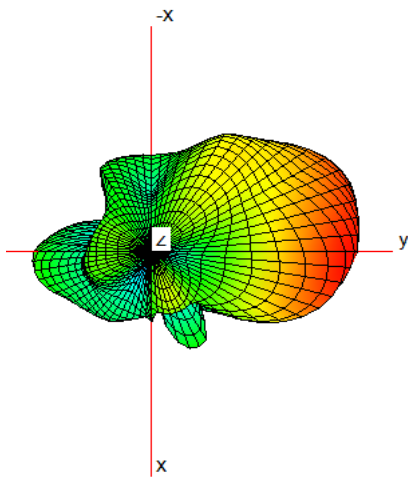
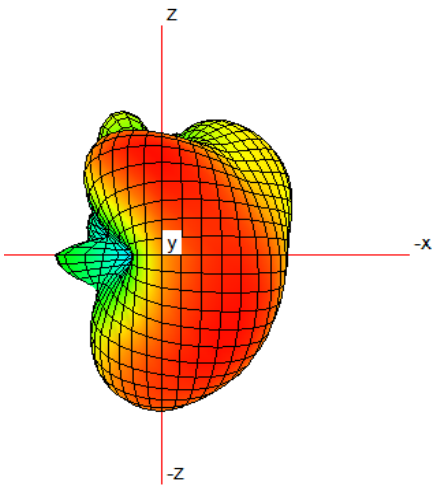
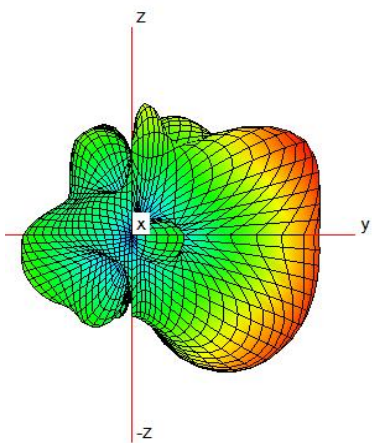
Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)
5150	-4	1.79	39.83
5220	-3.18	2.39	48.06
5290	-2.9	2.92	51.32
5360	-2.49	3.13	56.39
5430	-2.75	2.77	53.11
5500	-3.14	2.41	48.55
5570	-3.44	2.29	45.25
5640	-3.7	1.9	42.66
5710	-3.76	1.41	42.03
5780	-3.9	0.88	40.77
5850	-4.27	0.59	37.45



2450MHZ

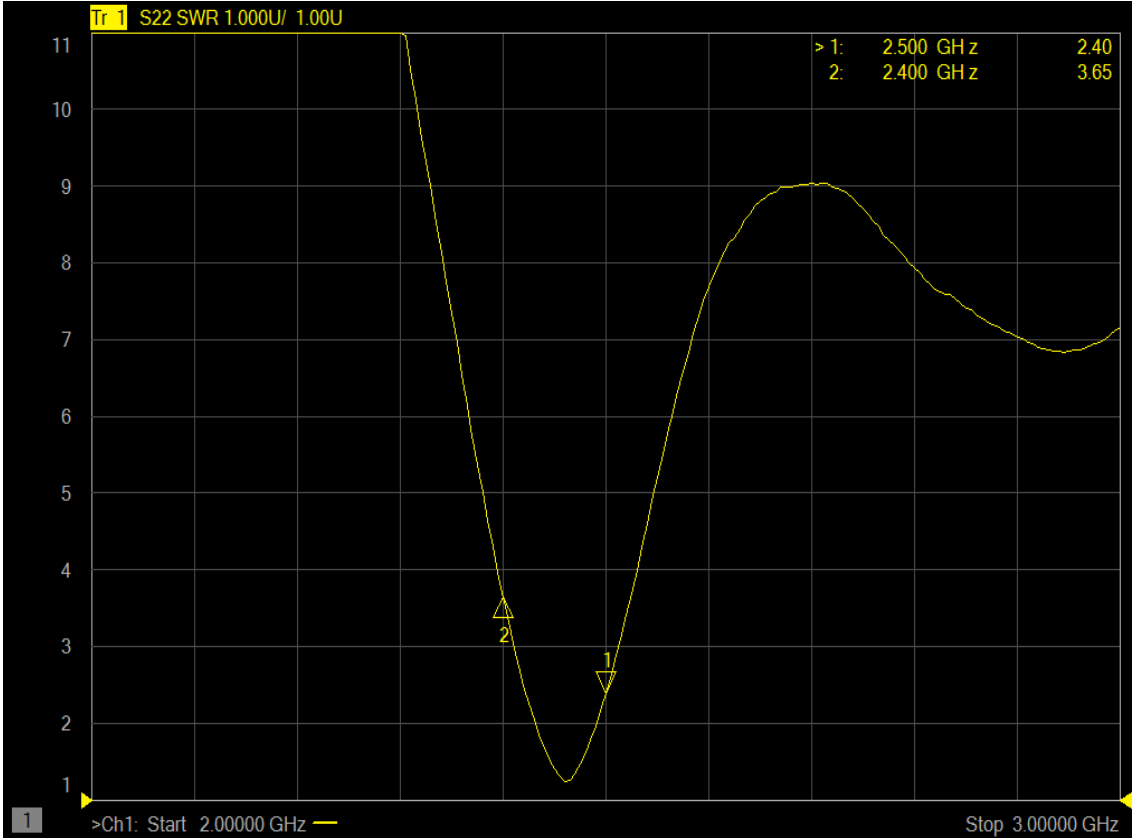
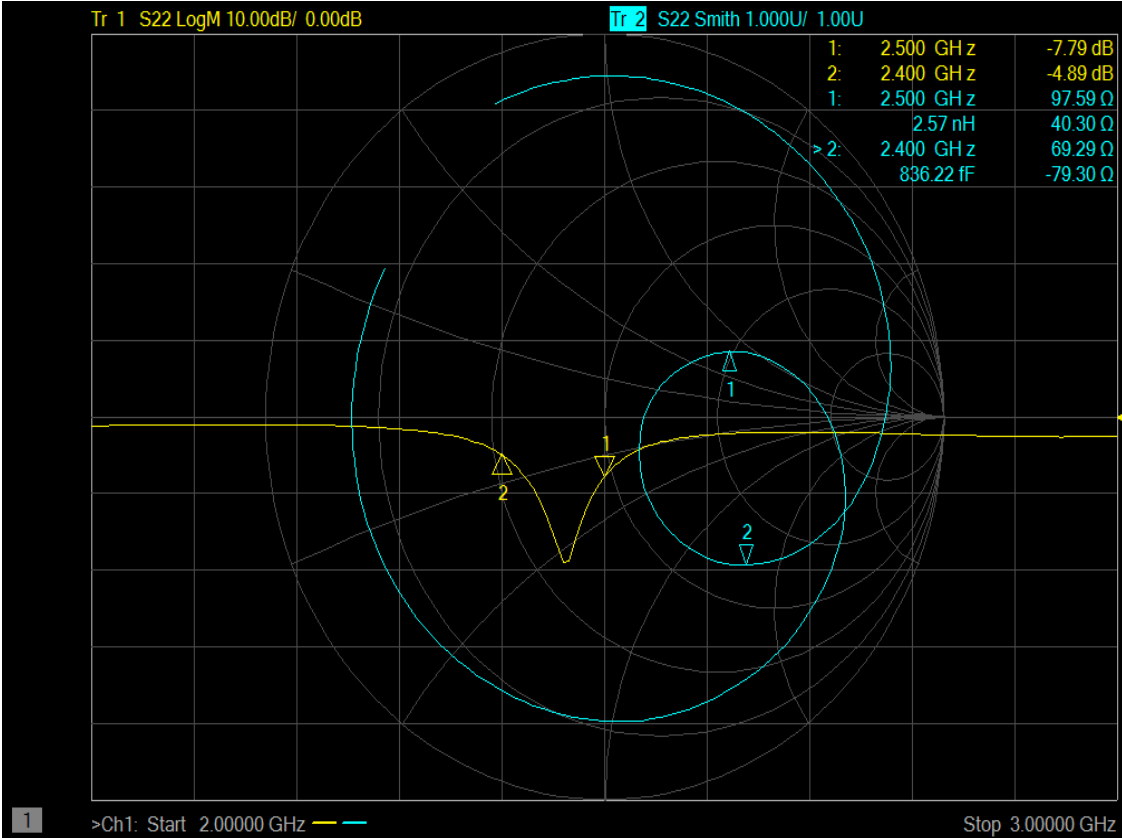


5650MHZ



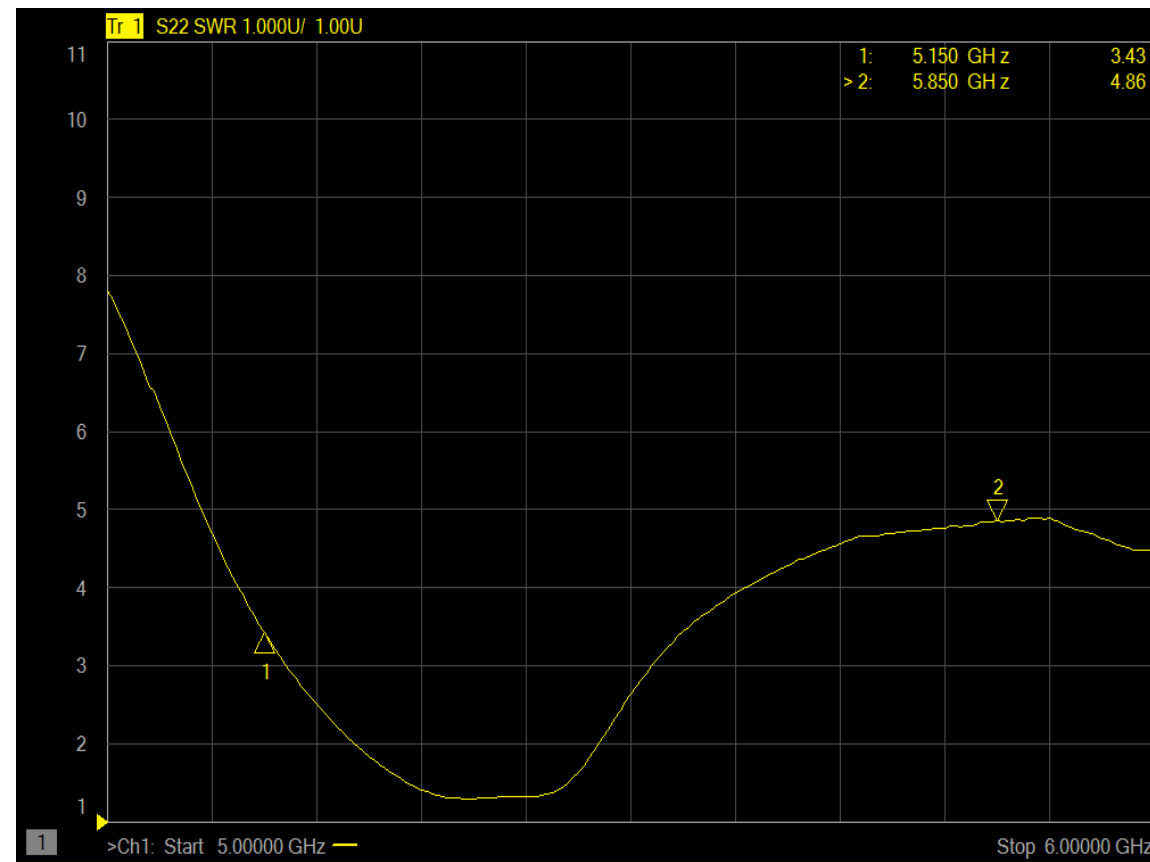
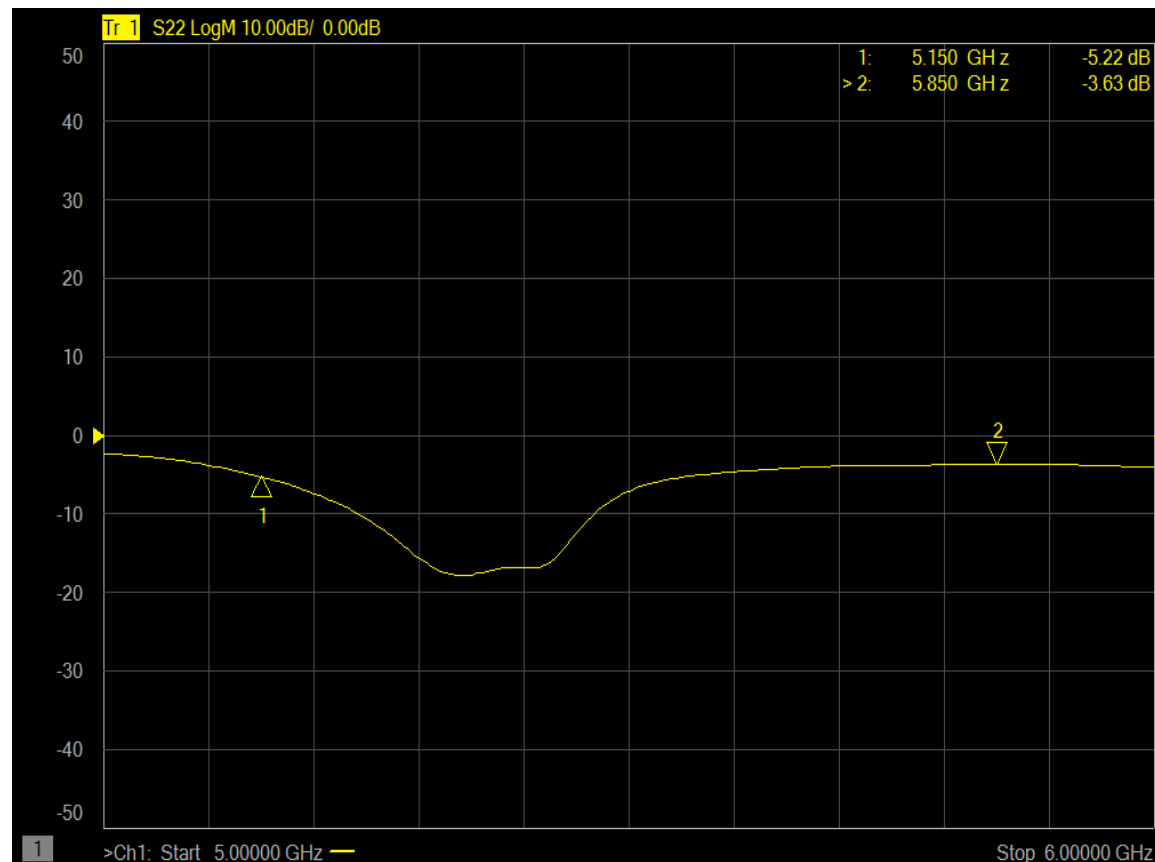


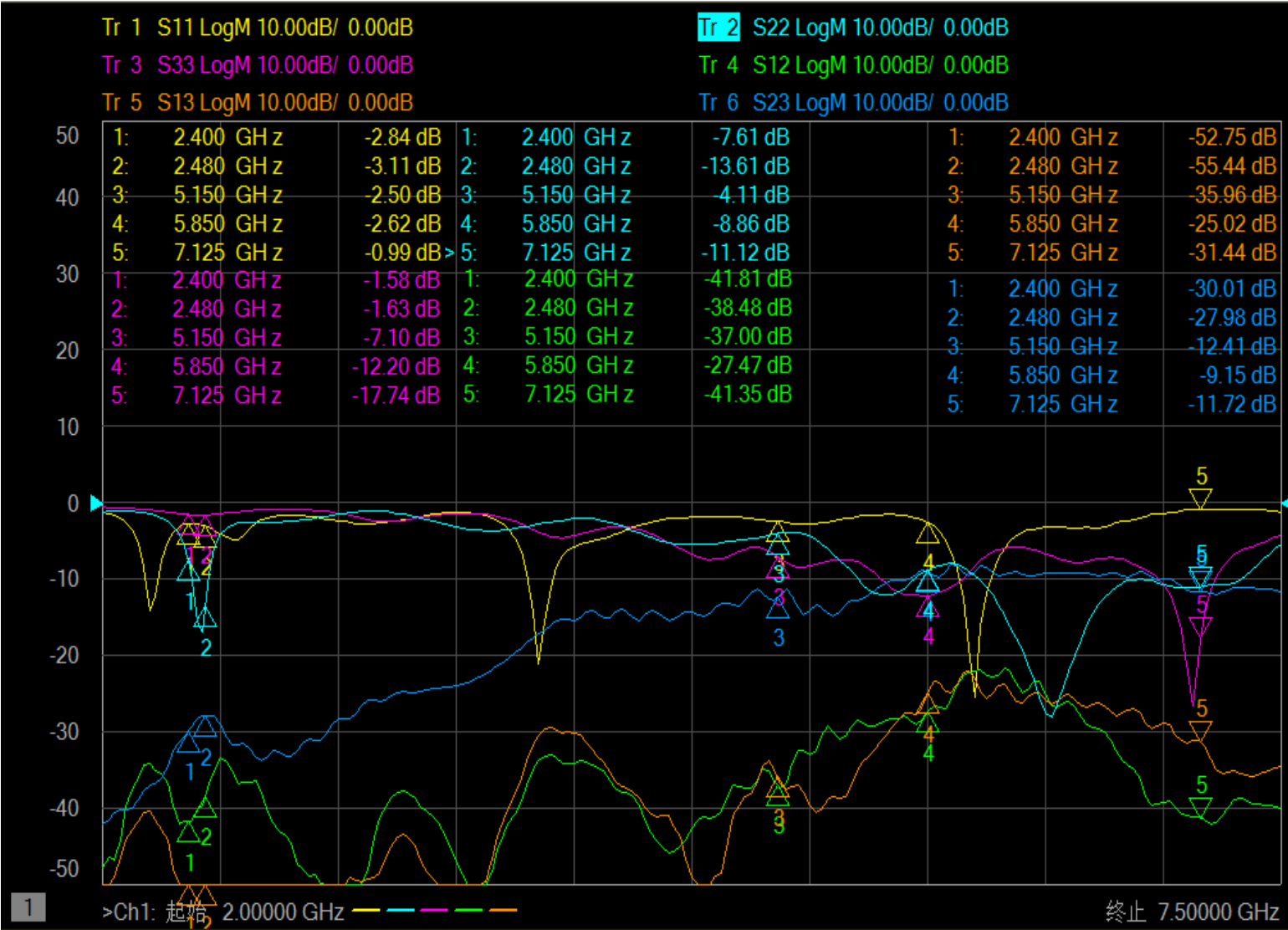
WiFi-1 2.4G

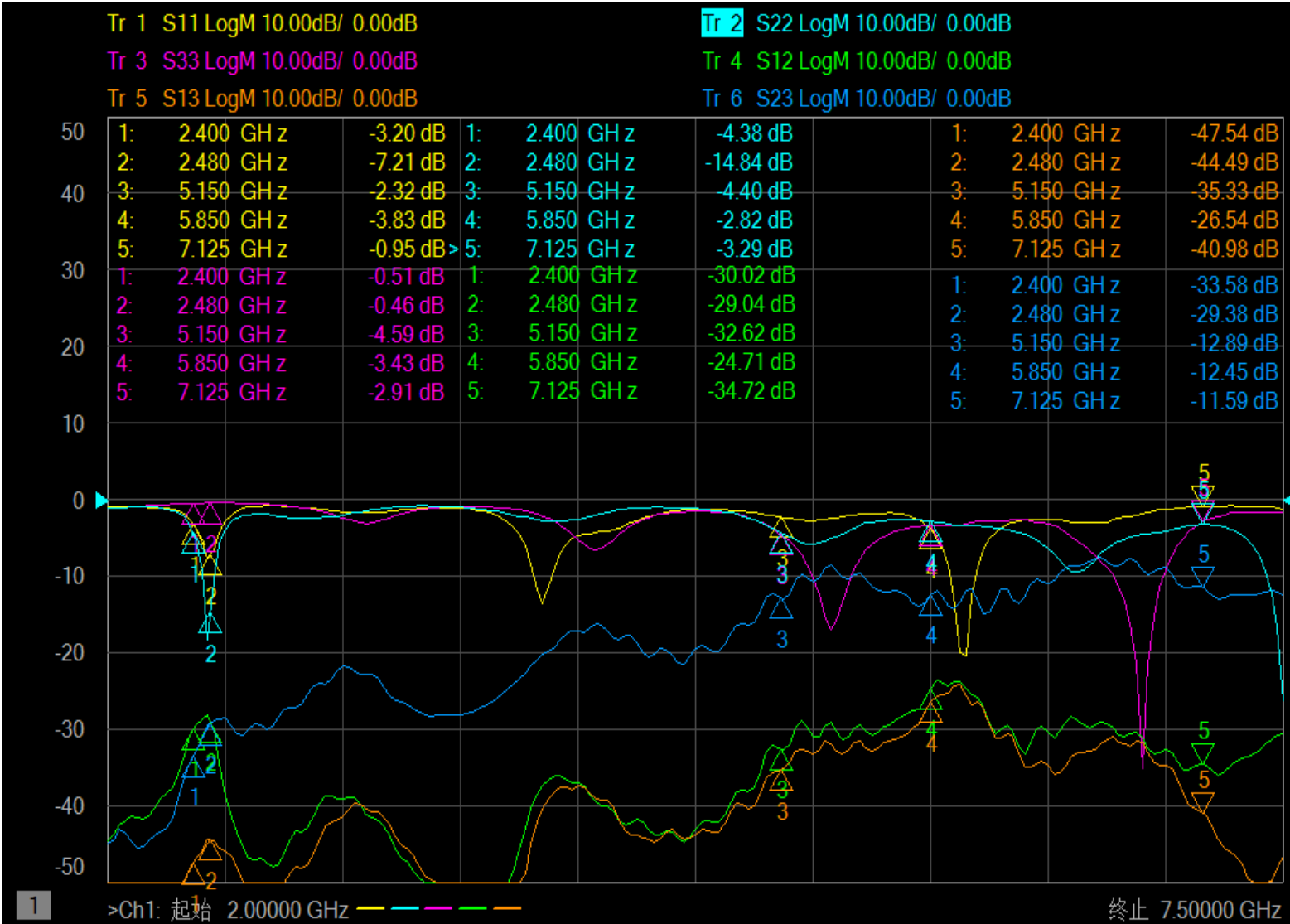


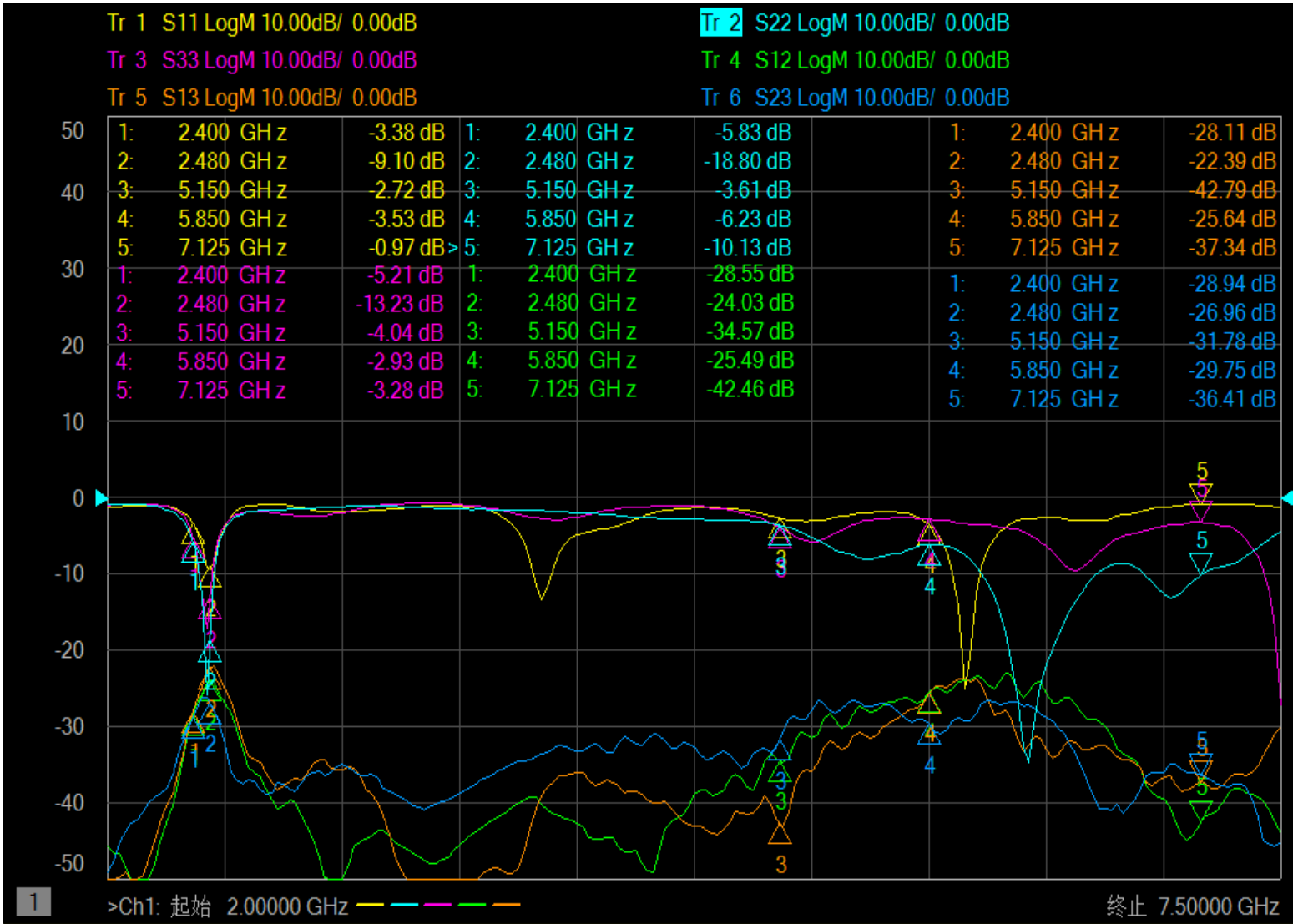


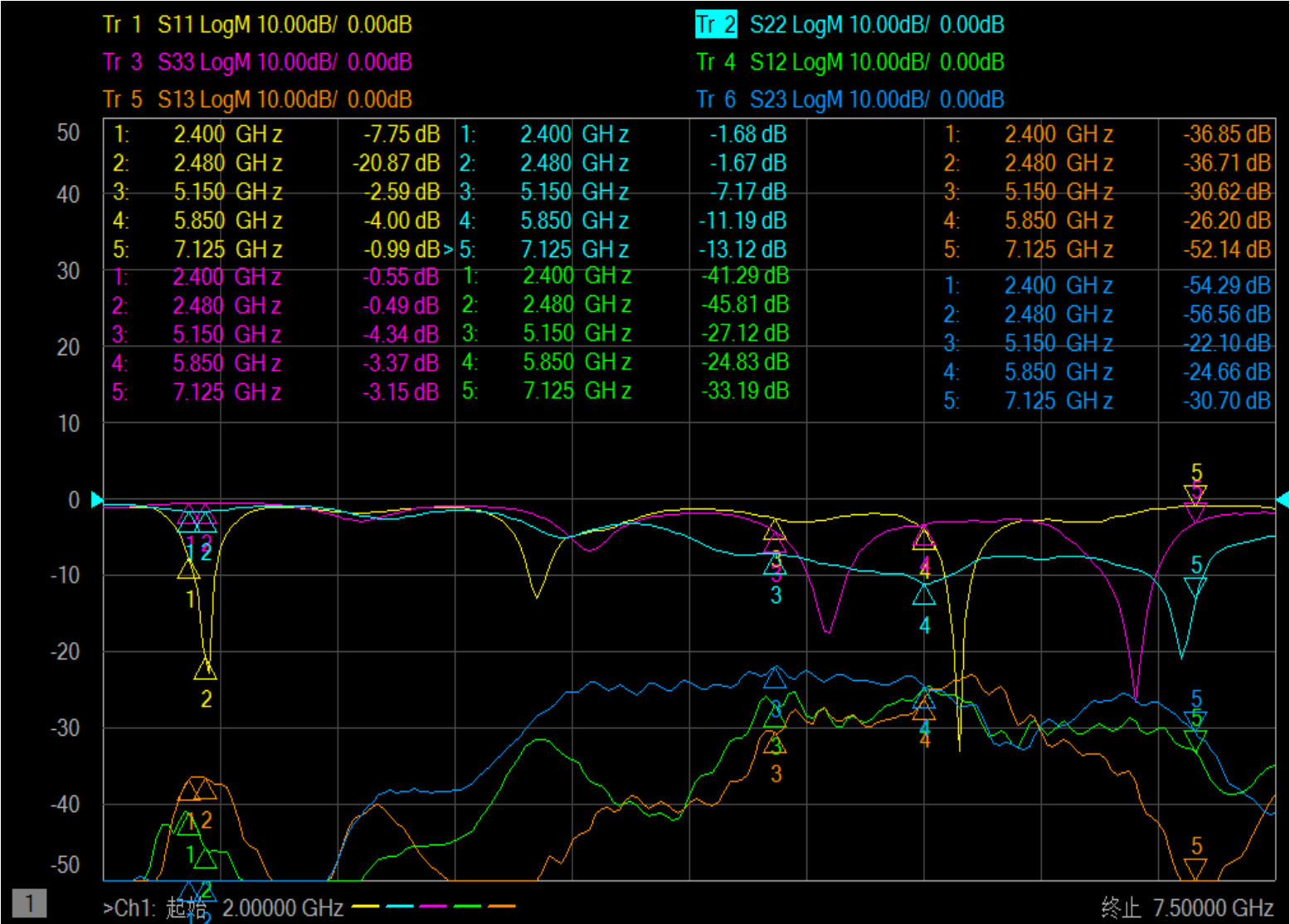
WiFi-1 5.8G













深圳汉阳天线设计有限公司

SHENZHEN HANYANG ANTENNA DESIGN CO., LTD.

5G

Welcome calls consultations, negotiations and guidance come!

Thank you

地址：深圳市宝安区前进路宝运达物流信息大厦**12A**层。

电话：**0755-23069700**

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