

规格承认书
SPECIFICATION FOR APPROVAL

客 户 Customer	文巡
项目名称 Project Name	VTK12
客 户 料 号 Customer NO.	
规 格 specification	
供 方 料 号 Supplier NO.	
规 格 书 编 号 Specification NO.	
编写人 Write by	周洪亮
版本 REV.	Ver.1
日 期 Date	2024/06/06
备 注 Note	

客户确认 CUSTOMER APPROVED BY		
批准 Approved by	审核 Checked by	制表 Prepared by
供方确认 SUPPLIER APPROVED BY		
批准 Approved by	审核 Checked by	制表 Prepared by

版本变更记录				
变更日期	变更内容	版本	变更人	批准人

1. 承认书项目表 (Inde)

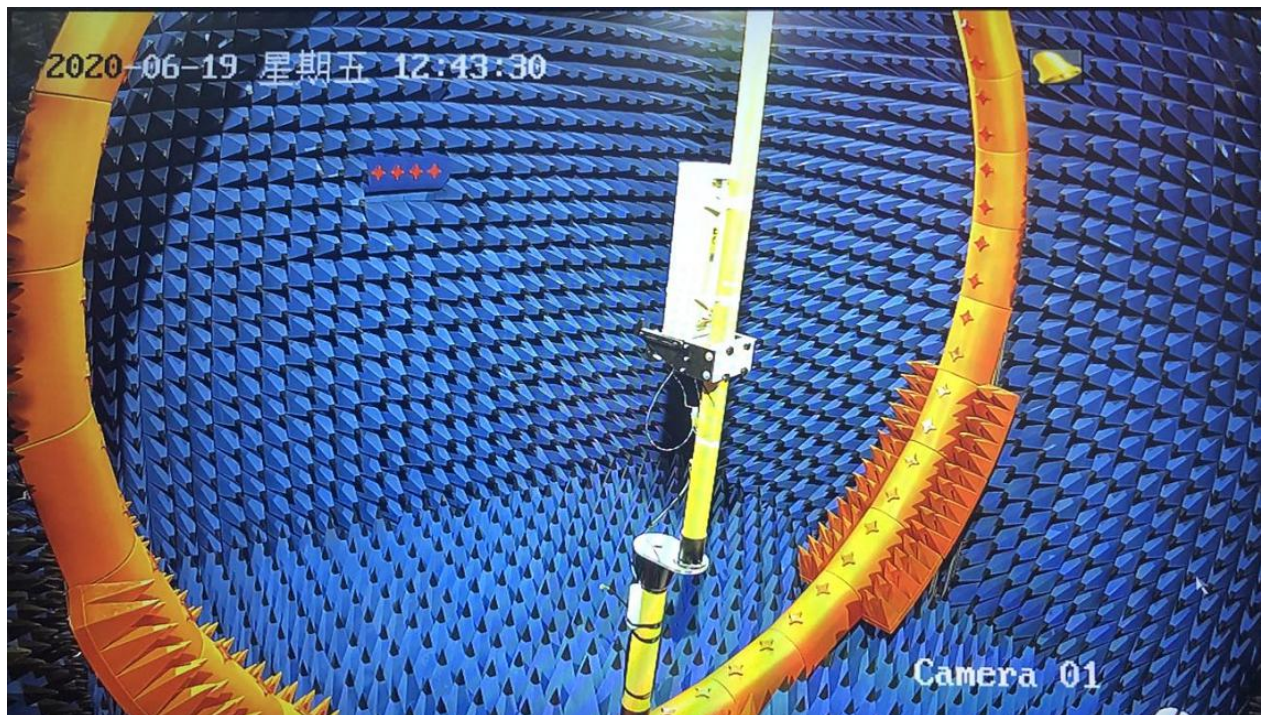
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2. 试验设备和条件(Test Equipment & Conditions)

2.1. **Network Analyzers :** KEYSIGHT P5002A

2.2. **Communications Test Set:** R&S CMW 500

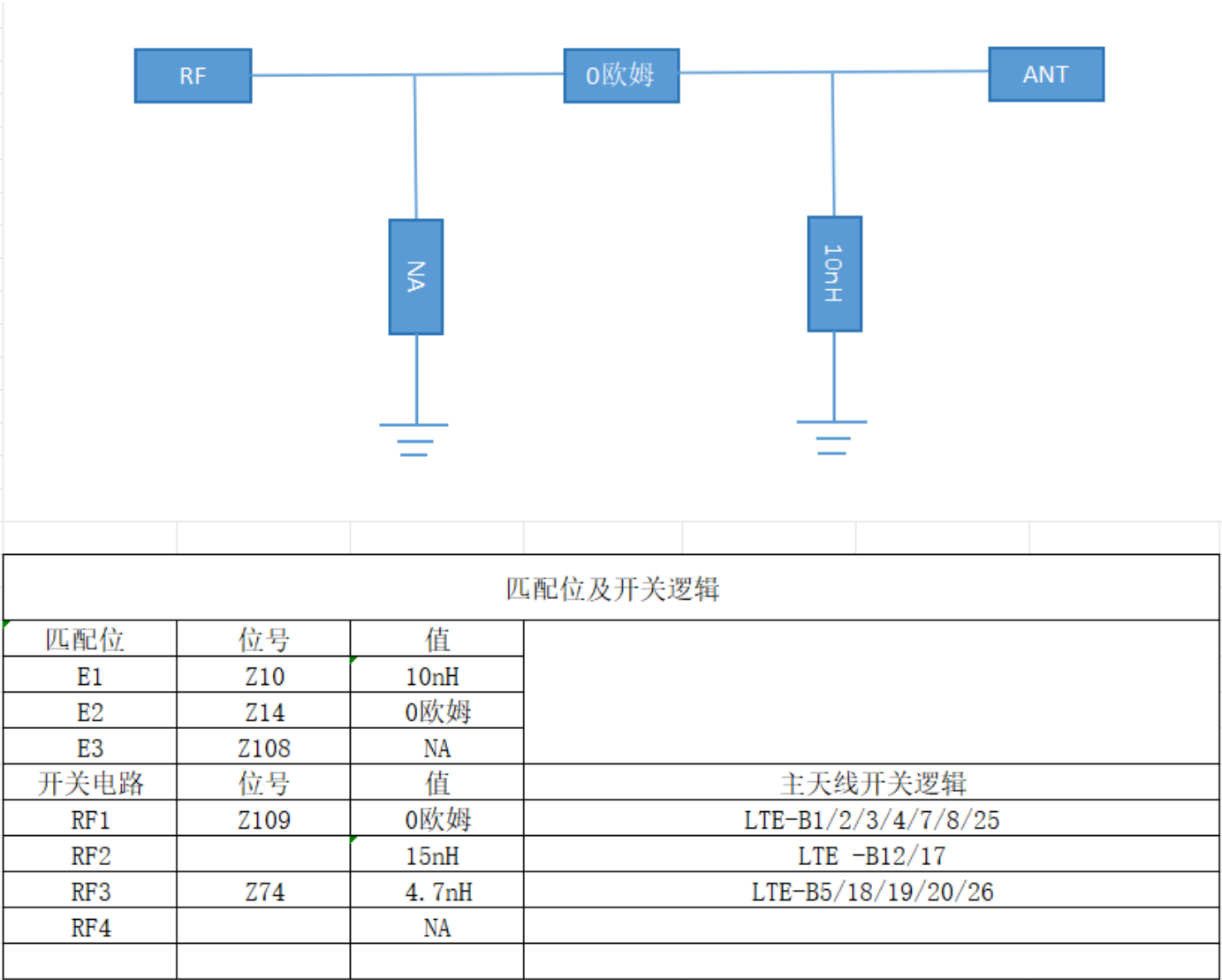
2.3. **3D Chamber Test System:** 64探头测试系统



3. 样机结构说明件(Mechanical instruction)

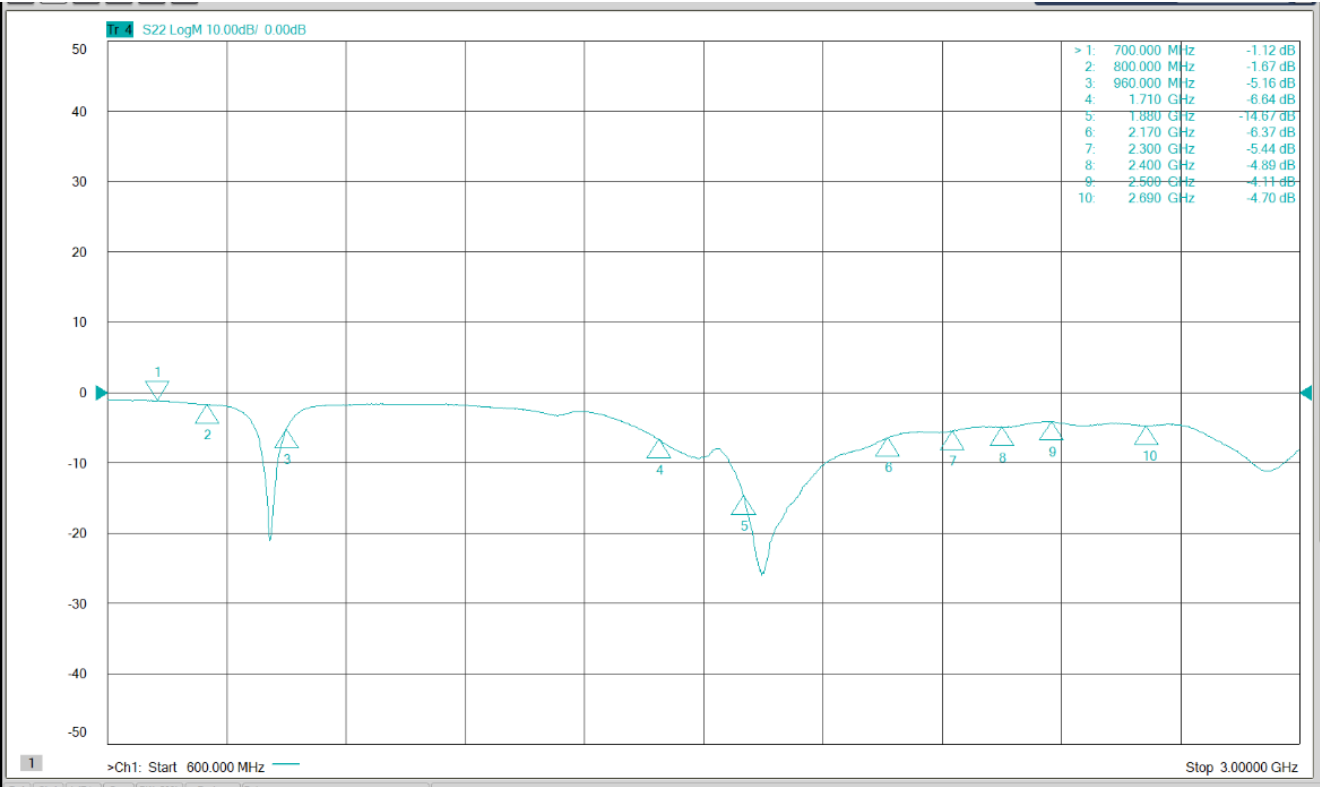


4. 主天线匹配-有调整

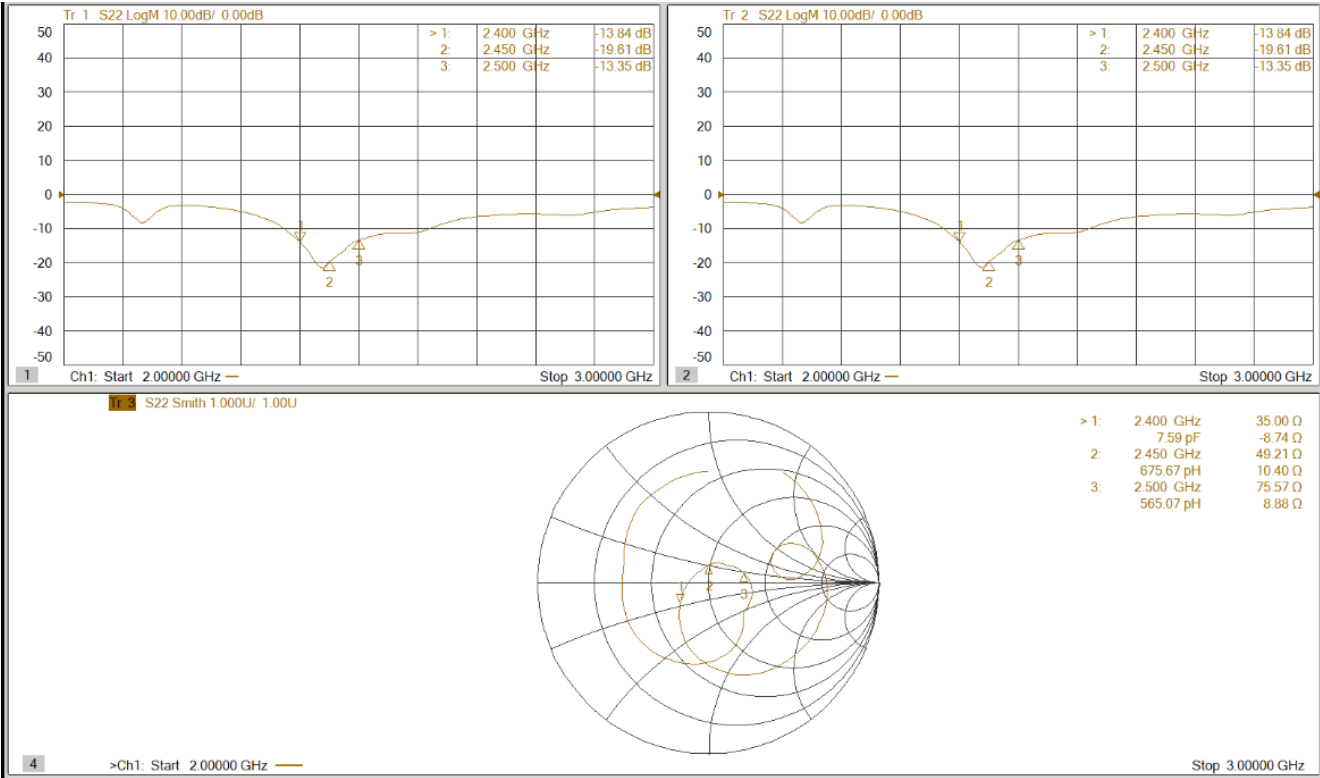


其他天线0欧姆直通

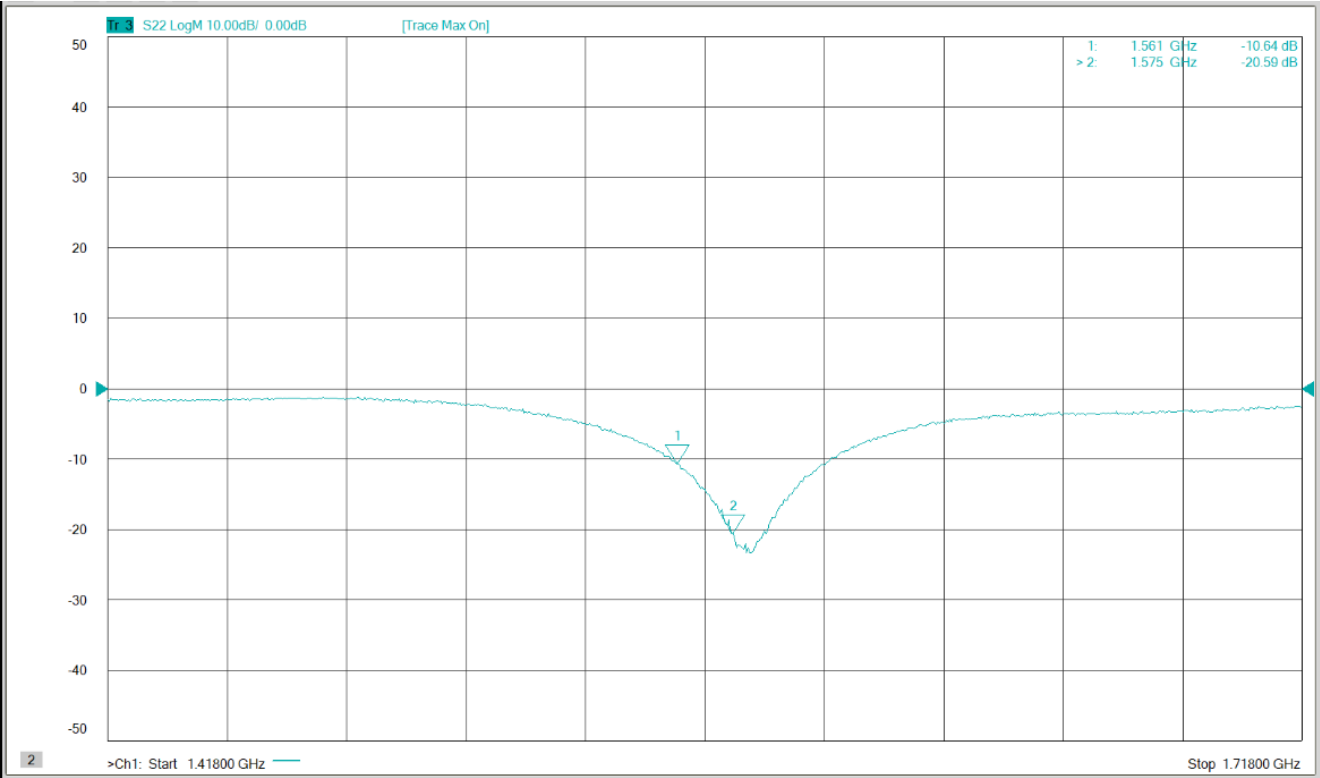
5. S11
MAIN



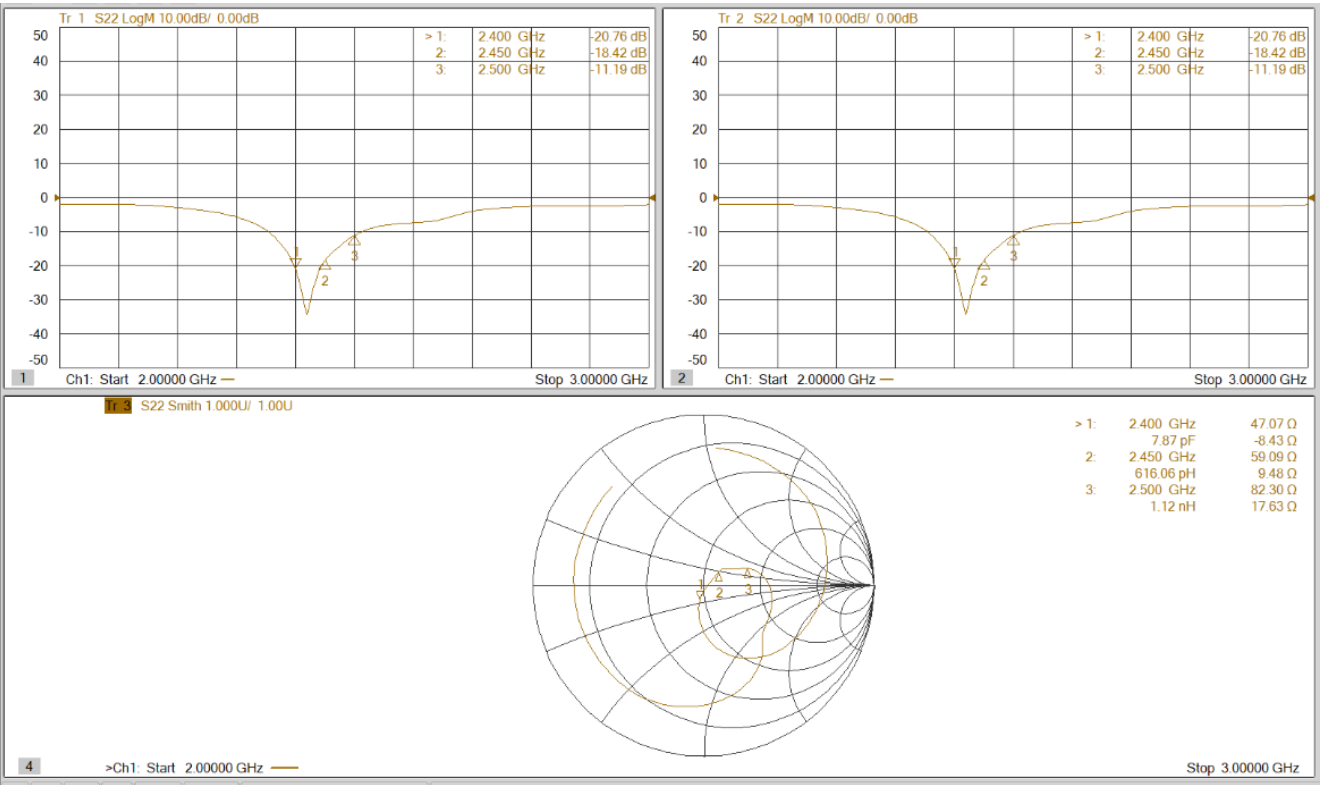
WIFI



5. S11
GPS



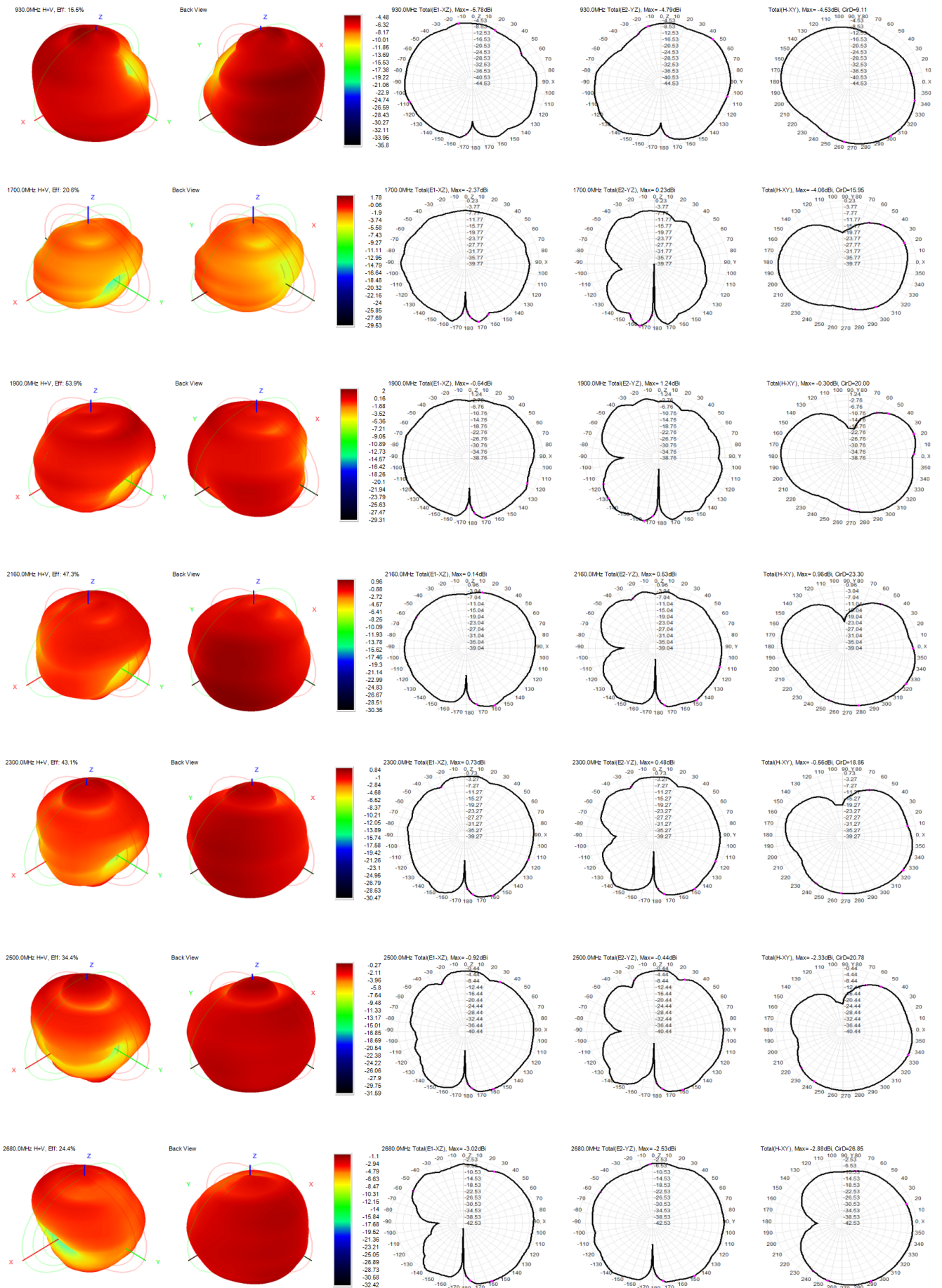
BT



6. 天线无源效率/增益-MAIN

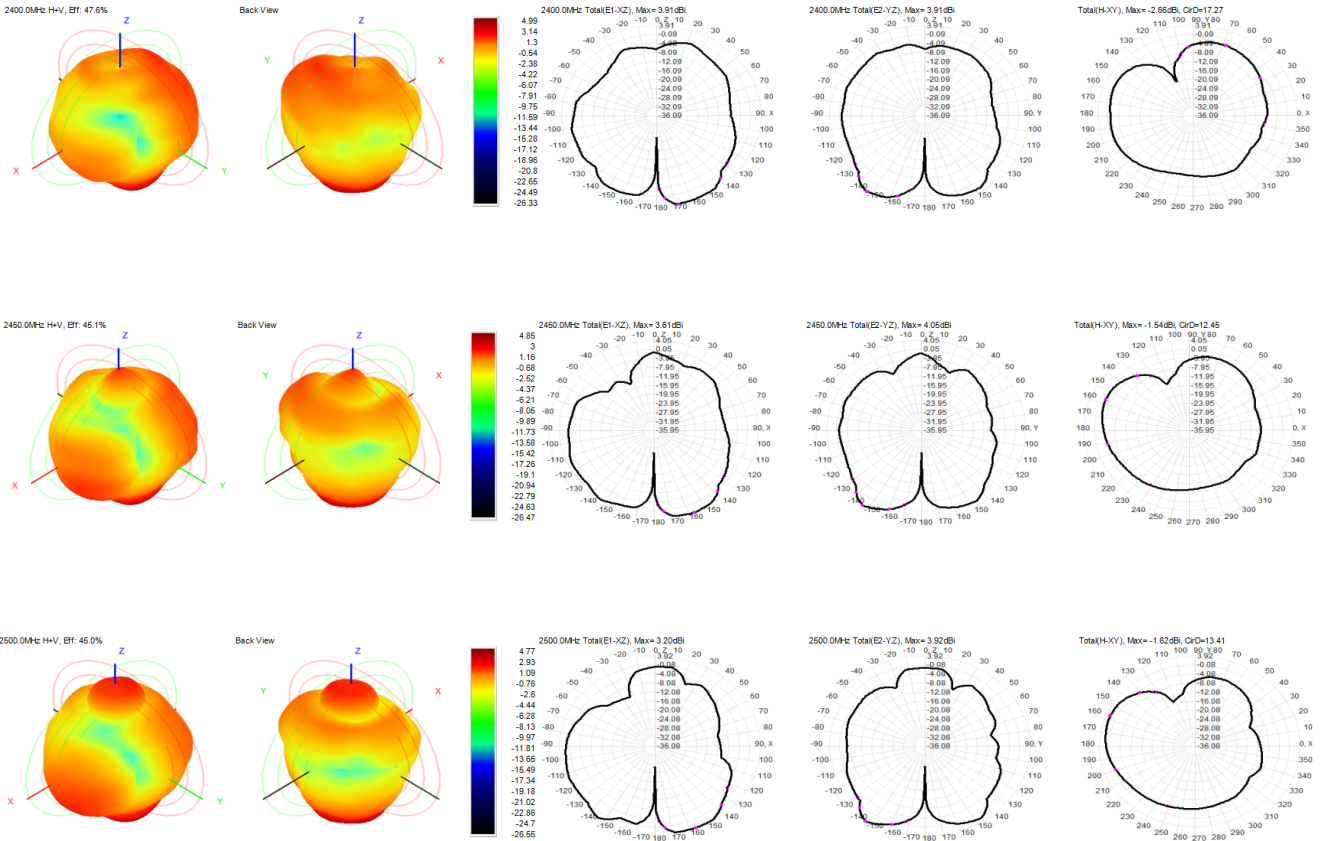
Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
700.0	-20.58	0.12	1900.0	2.00	53.91
710.0	-17.81	0.15	1920.0	2.12	56.35
720.0	-19.19	0.17	1940.0	1.61	59.61
730.0	-21.16	0.18	1960.0	1.77	62.32
740.0	-20.76	0.22	1980.0	1.78	57.90
750.0	-21.39	0.24	2000.0	2.25	59.42
760.0	-20.33	0.29	2020.0	2.54	63.47
770.0	-19.00	0.36	2040.0	1.79	57.68
780.0	-19.26	0.40	2060.0	2.10	54.66
790.0	-18.34	0.46	2080.0	1.89	55.76
800.0	-17.22	0.59	2100.0	1.37	53.60
810.0	-16.83	0.71	2120.0	1.50	52.96
820.0	-15.97	0.84	2140.0	1.06	47.20
830.0	-15.22	0.99	2160.0	0.96	47.26
840.0	-14.98	1.23	2180.0	0.84	47.40
850.0	-13.91	1.64	2300.0	0.84	43.09
860.0	-12.15	2.41	2320.0	0.97	42.41
870.0	-11.29	3.23	2340.0	0.73	38.38
880.0	-9.67	4.20	2360.0	0.97	40.26
890.0	-8.42	5.54	2380.0	0.66	38.33
900.0	-7.12	7.58	2400.0	0.64	37.43
910.0	-5.68	10.84	2420.0	0.76	37.06
920.0	-4.76	14.18	2440.0	0.11	33.89
930.0	-4.48	15.52	2460.0	-0.08	35.65
940.0	-5.35	13.39	2480.0	0.20	37.07
950.0	-6.87	9.33	2500.0	-0.27	34.37
960.0	-8.53	6.40	2520.0	-0.12	34.17
1700.0	1.78	20.57	2540.0	-0.46	33.41
1720.0	1.95	23.67	2560.0	0.01	33.37
1740.0	2.48	25.55	2580.0	0.36	33.30
1760.0	3.24	31.97	2600.0	0.30	31.27
1780.0	2.17	33.63	2620.0	-0.16	30.24
1800.0	1.97	34.84	2640.0	0.35	29.04
1820.0	0.99	30.83	2660.0	-0.15	27.22
1840.0	0.85	34.71	2680.0	-1.10	24.37
1860.0	1.73	40.71	2700.0	-1.48	24.20
1880.0	1.28	45.03			

6. 方向图-MAIN



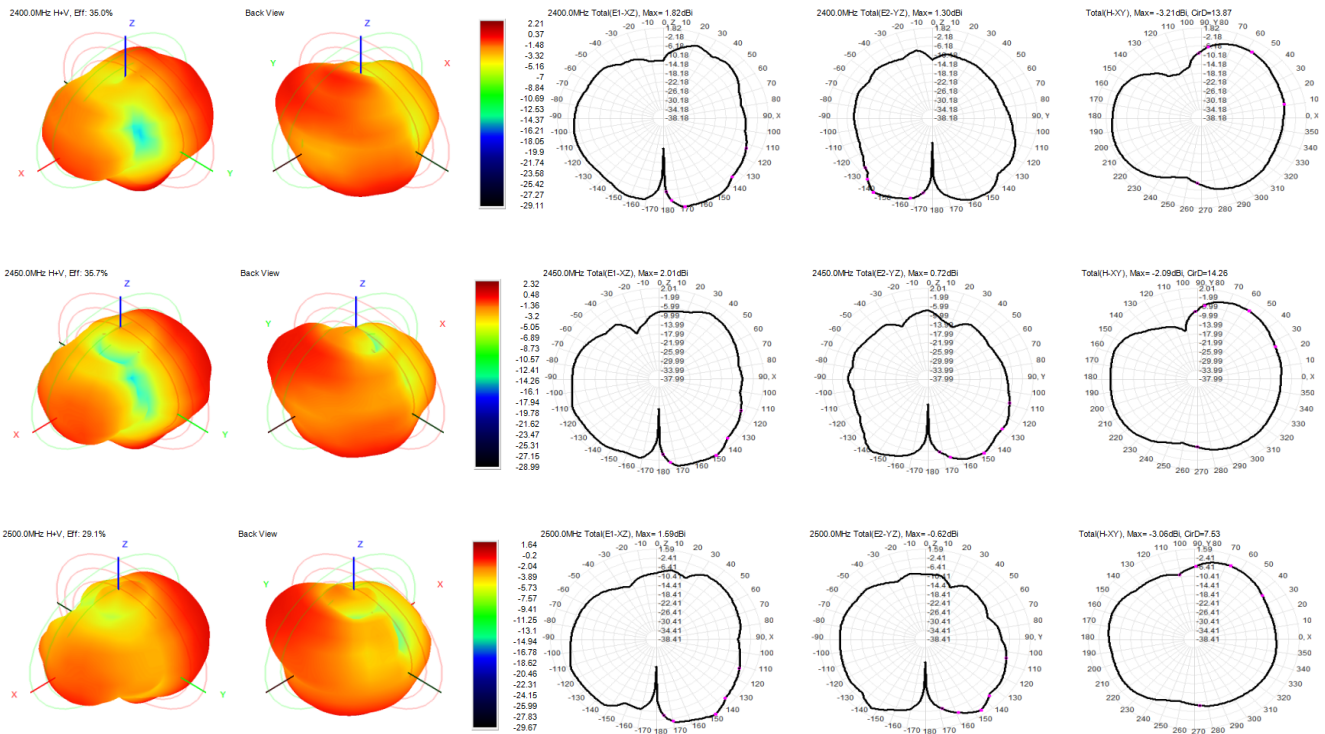
6. 天线无源效率/增益/方向图-WIFI

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	4.99	47.64
2410.0	5.16	47.95
2420.0	5.20	46.30
2430.0	5.23	45.86
2440.0	4.94	44.28
2450.0	4.85	45.11
2460.0	4.87	46.00
2470.0	5.09	48.28
2480.0	5.17	50.21
2490.0	4.77	46.63
2500.0	4.77	45.02



6. 天线无源效率/增益/方向图-BT

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.21	34.99
2410.0	2.63	36.31
2420.0	2.72	36.50
2430.0	2.69	36.96
2440.0	2.39	35.70
2450.0	2.32	35.70
2460.0	2.15	35.34
2470.0	2.05	35.42
2480.0	2.10	34.58
2490.0	1.81	31.09
2500.0	1.64	29.05



6. 天线无源效率/增益/方向图-GPS

Frequency (MHz)	1550.0	1555.0	1560.0	1565.0	1570.0	1575.0	1580.0	1585.0	1590.0
Gain (dBi)	0.55	0.52	0.50	0.54	0.67	0.80	0.88	0.86	1.06
Efficiency (%)	41.19	41.35	41.39	41.87	43.04	44.61	45.84	46.04	46.17

