

2. 4G Antenna reporter

Innovation never end.....

Customer	Version	Engineer	Date
		Zhou YU	July 2, 2024

Outline Summary

● Purpose

2.4G antenna test. Result as following.

● Agenda

- Test Environment and Equipment
- Antenna Positions

Test Result : Gain&Efficiency

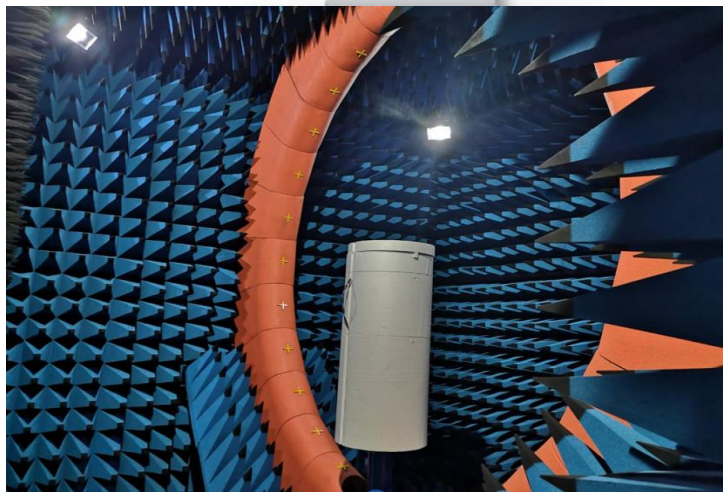
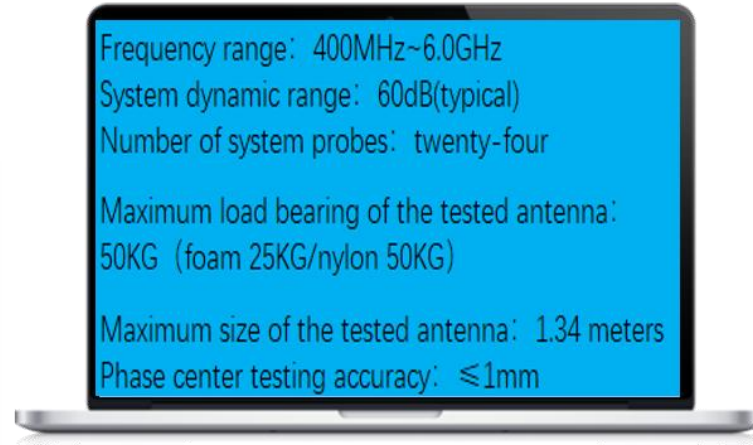
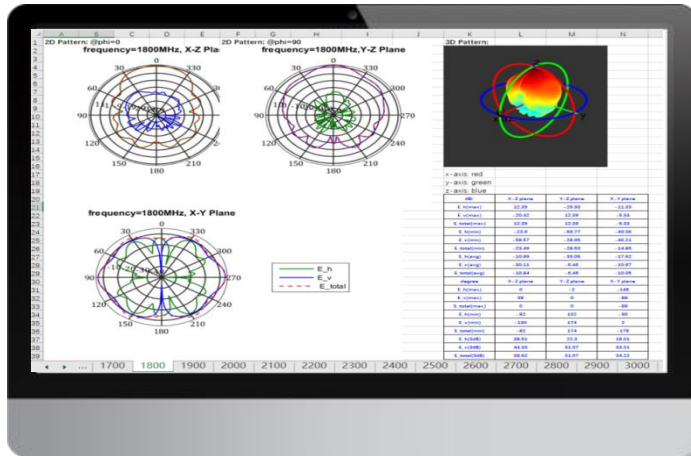
Test Result : 3D Radiation Pattern

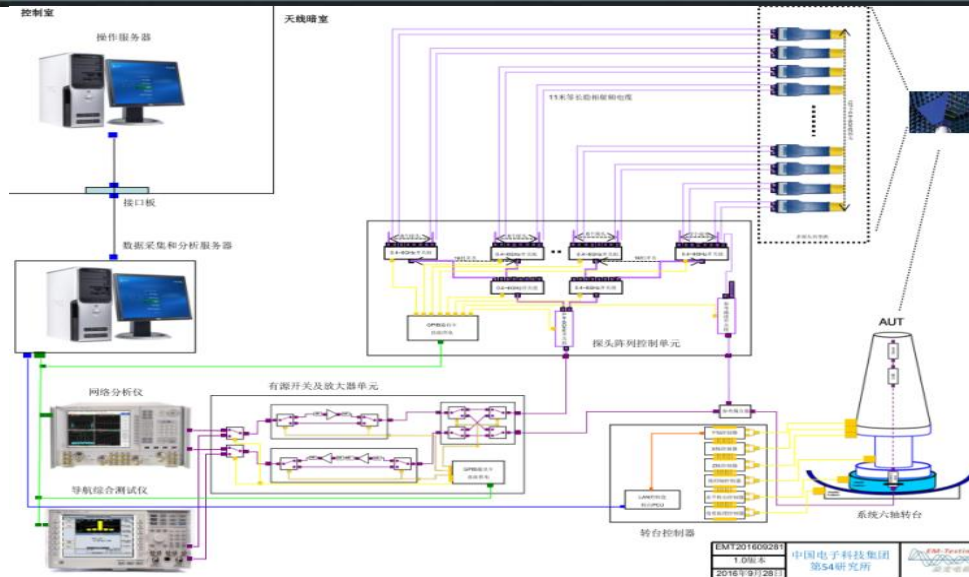
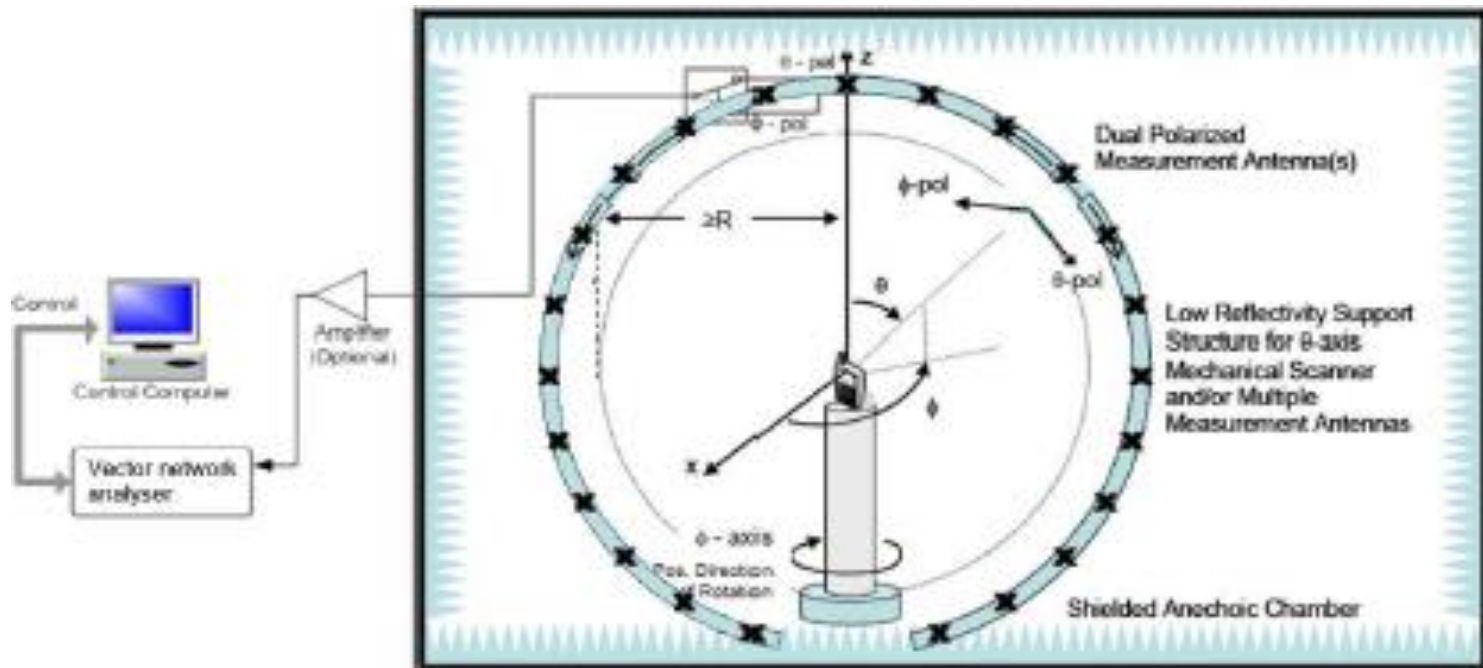
● Result & Suggestions

Test Environment and Equipments

Equipment : EMT-24 Multiple Probe Ball Surface Field System

Testing Software: EM-Testing

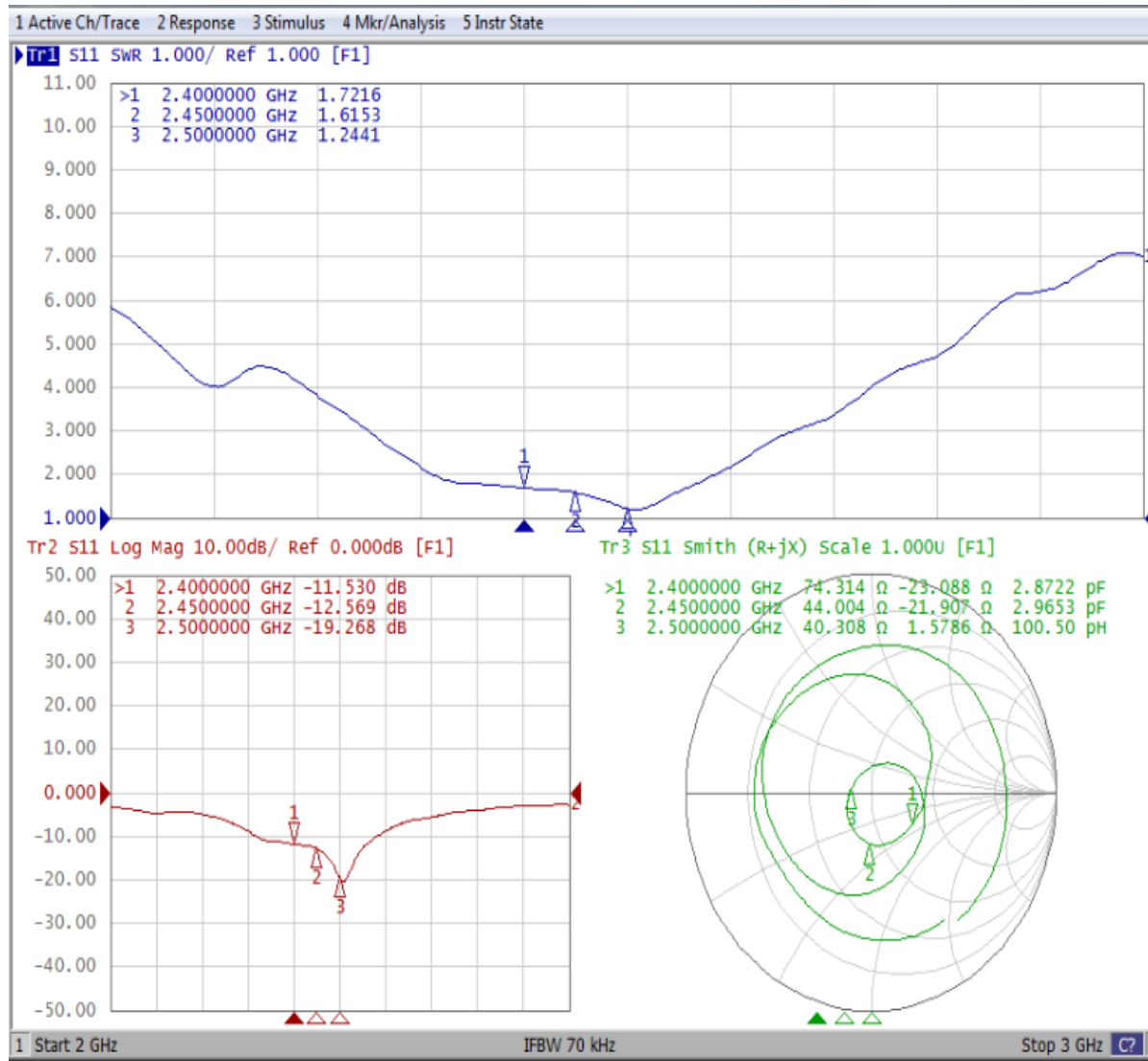




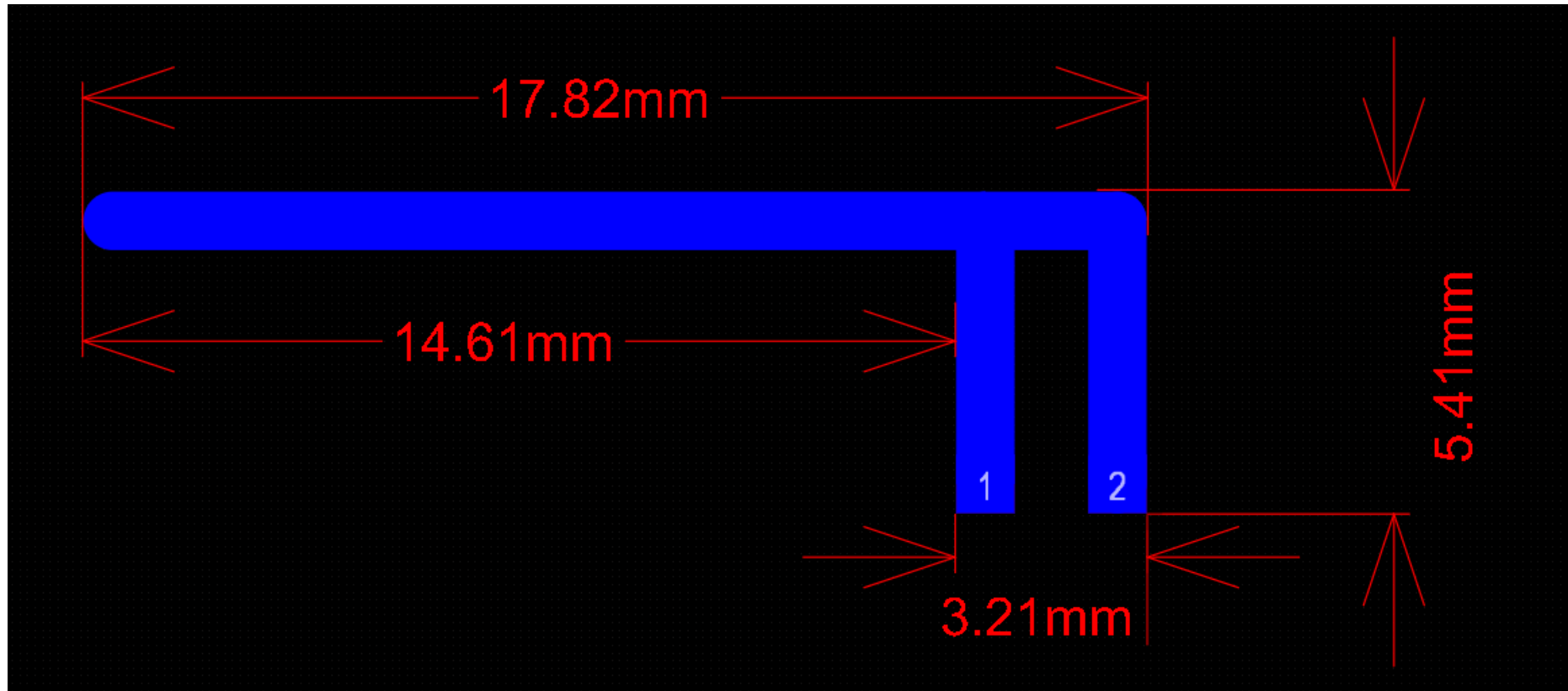
Summary of test data

Frequency (MHz)	Directivity(dB)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	5.5244	-0.2682	-5.7927	26.347
2405	5.3612	-0.4724	-5.8336	26.0999
2410	5.4107	-0.3566	-5.7673	26.5012
2415	5.5339	-0.1835	-5.7174	26.8077
2420	5.6501	0.0082	-5.642	27.2775
2425	5.8433	0.2643	-5.5791	27.6754
2430	5.7158	0.2469	-5.4689	28.3865
2435	5.6124	0.1397	-5.4727	28.3616
2440	5.5811	0.1182	-5.4629	28.4259
2445	5.3885	-0.0055	-5.3941	28.8798
2450	5.5811	0.3642	-5.2169	30.0824
2455	5.5598	0.4766	-5.0832	31.023
2460	5.4498	0.5177	-4.9321	32.1208
2465	5.3988	0.6363	-4.7625	33.4002
2470	5.0923	0.4144	-4.6779	34.0574
2475	4.8846	0.3512	-4.5334	35.2095
2480	4.7365	0.111	-4.6255	34.4706
2485	4.6824	0.1579	-4.5246	35.2811
2490	4.6361	0.1946	-4.4414	35.9631
2495	4.5768	0.2403	-4.3365	36.8425
2500	4.5289	0.4123	-4.1166	38.7561

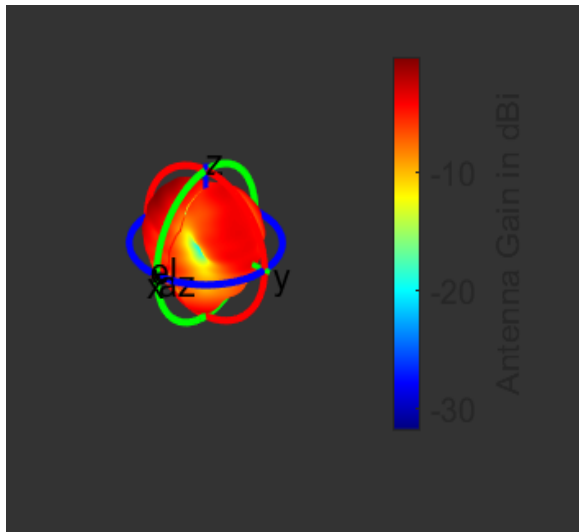
Diagram



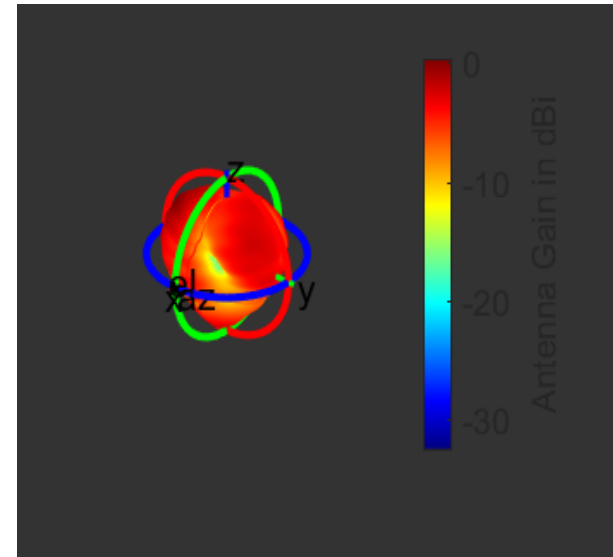
Antenna size



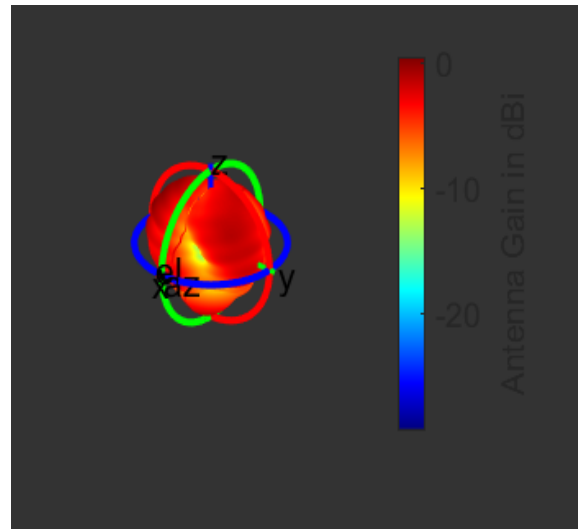
3D Pattern



2400



2450



2500



Thanks for cooperation!