

2. 4G Antenna reporter

Innovation never end.....

Customer	Version	Engineer	Date
		Zhou YU	June 5, 2024

Outline Summary

● Purpose

2.4G antenna test. Result as following.

● Agenda

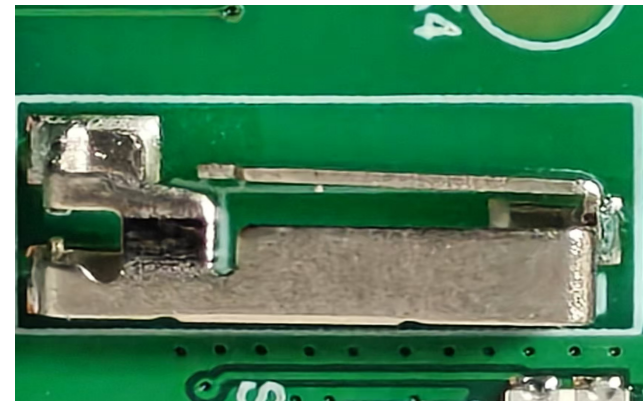
- Test Environment and Equipment
- Antenna Positions

Test Result : Gain&Efficiency

Test Result : 3D Radiation Pattern

● Result & Suggestions

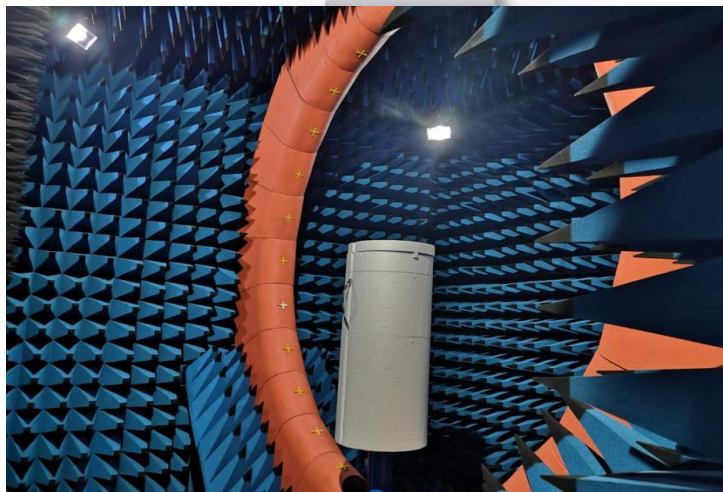
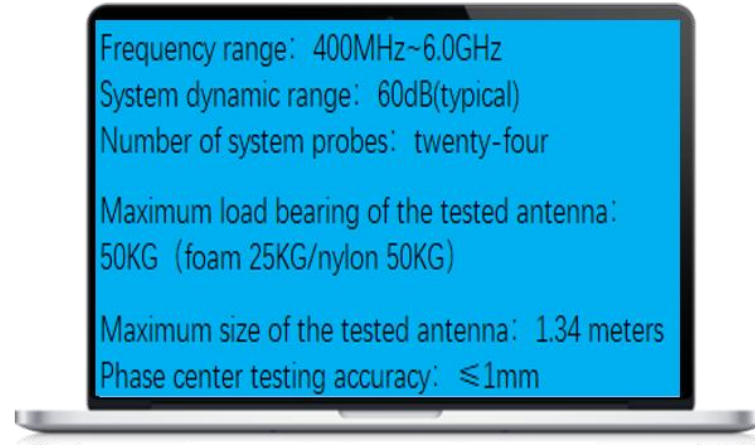
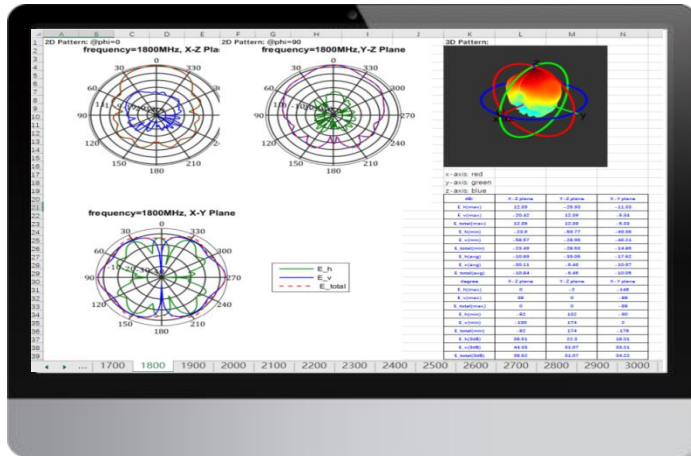
Antenna

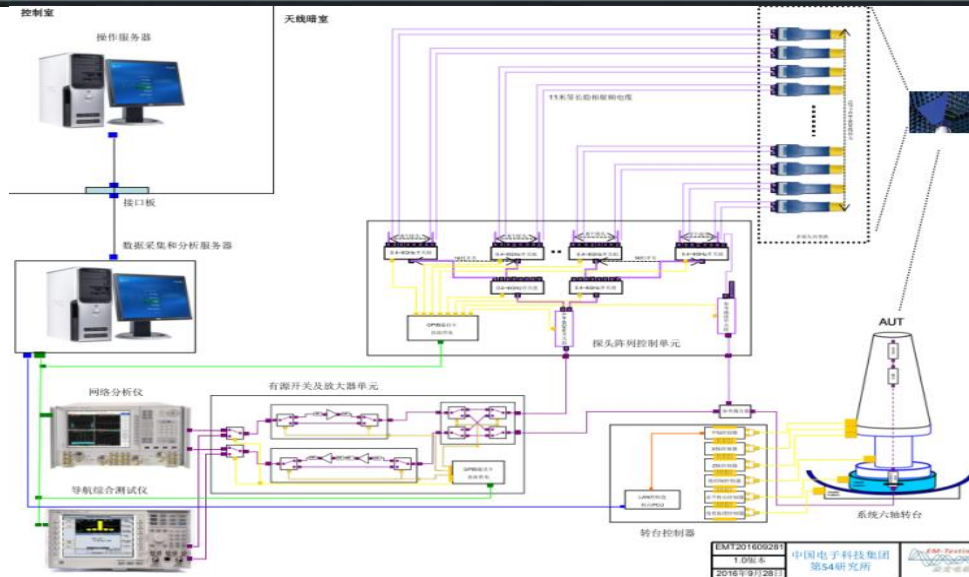
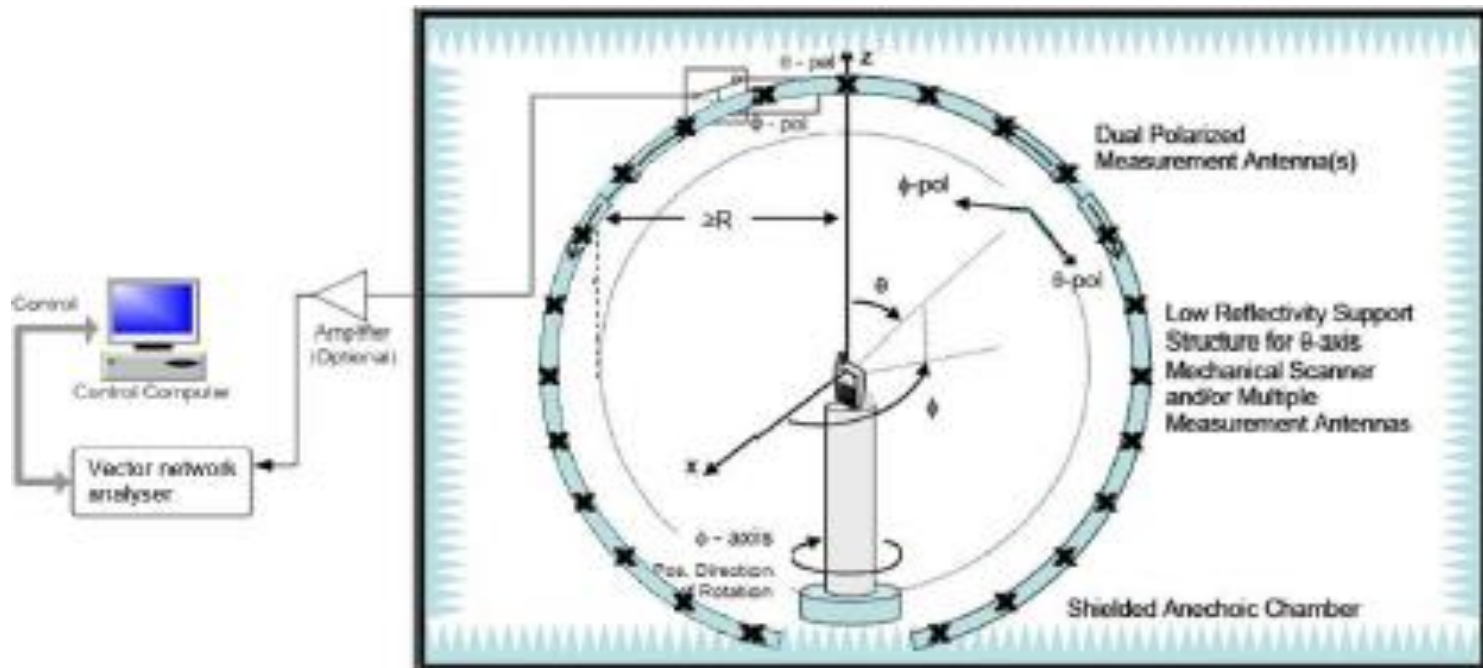


Test Environment and Equipments

Equipment : EMT-24 Multiple Probe Ball Surface Field System

Testing Software: EM-Testing





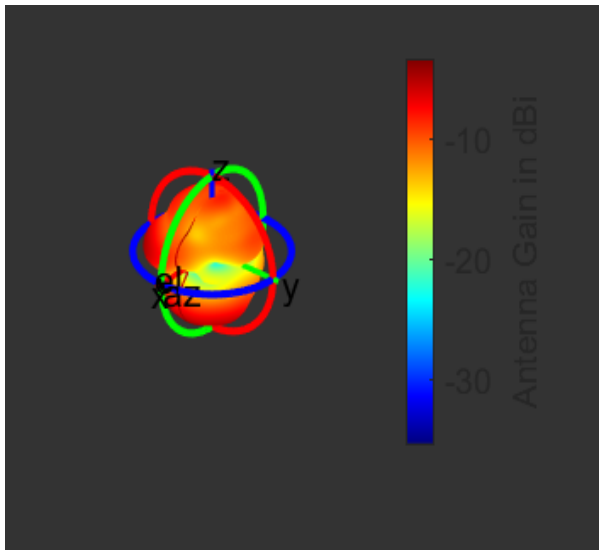
Summary of test data

Frequency (MHz)	Directivity(dB)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	5.6901	-3.2906	-8.9806	12.6455
2410	5.7691	-3.2134	-8.9825	12.6402
2420	5.8758	-2.8861	-8.7619	13.2988
2430	6.0111	-2.521	-8.5321	14.0214
2440	5.9816	-2.5794	-8.561	13.9282
2450	5.926	-2.5592	-8.4852	14.1737
2460	5.959	-2.3532	-8.3121	14.7498
2470	6.1266	-2.1517	-8.2783	14.8652
2480	6.2986	-2.1589	-8.4575	14.2644
2490	6.4	-2.0195	-8.4196	14.3894
2500	6.3642	-1.7601	-8.1242	15.402

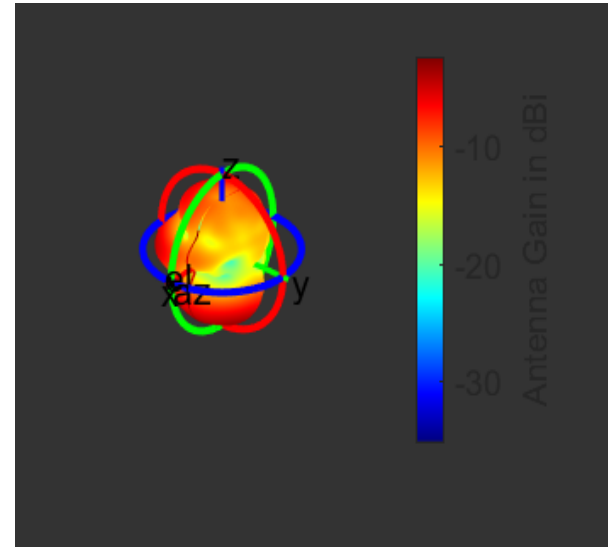
Diagram



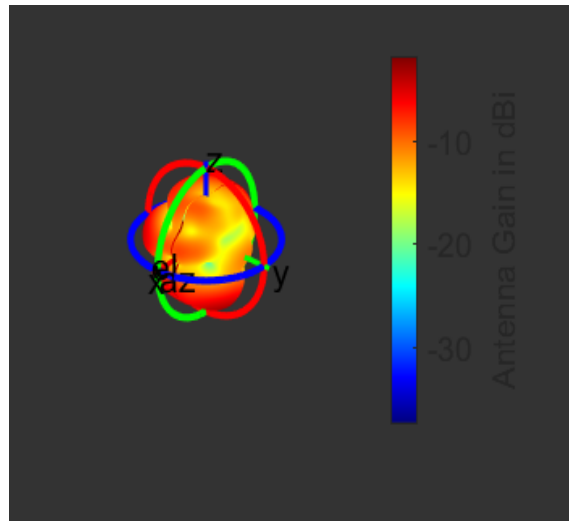
3D Pattern



2400



2450



2500



Thanks for cooperation!