

Antenna Test Report

Index:

1. Overview
2. Revision History
3. Test Item & Equipment
4. Matching Circuit
5. S Parameter Test
6. Active Test
7. Conducted Emission Test
8. Environmental Processing

Project Name: CH200
Author: 王赞桦
Update: 2025-11-10

项目概况

OverView

CUSTOMER NAME	创蓝实业	PROJECT NAME	CH200
Items	Details		
• FREQUENCY	2400MHz-2500MHz		
• ANTENNA TYPE	SMD Antenna		
• PART NUMBER	M01-X100020R0A		
• FEED & GROUND PAD			
• SENSITIVE ELEMENTS			
• Manufacturer	ShenZhen MyAntenna RF Technology CO., LTD		
• Address	Room 410, Building A, Fenghuang Zhigu, No. 50 Tiezai Road, Gongle Community, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province.		

Test Item & Equipment

List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	

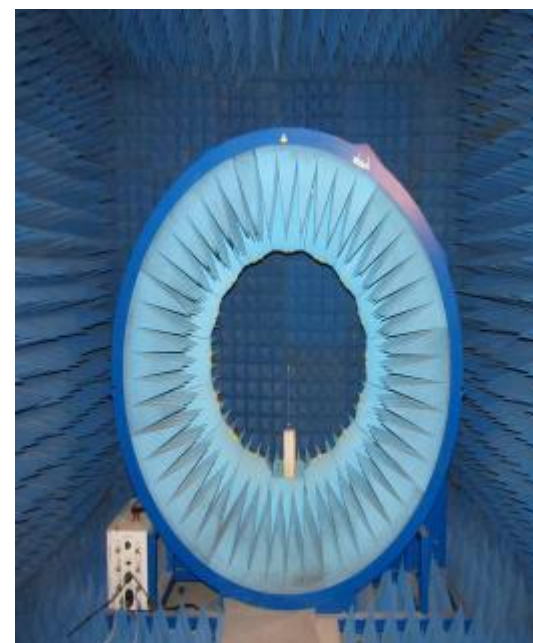
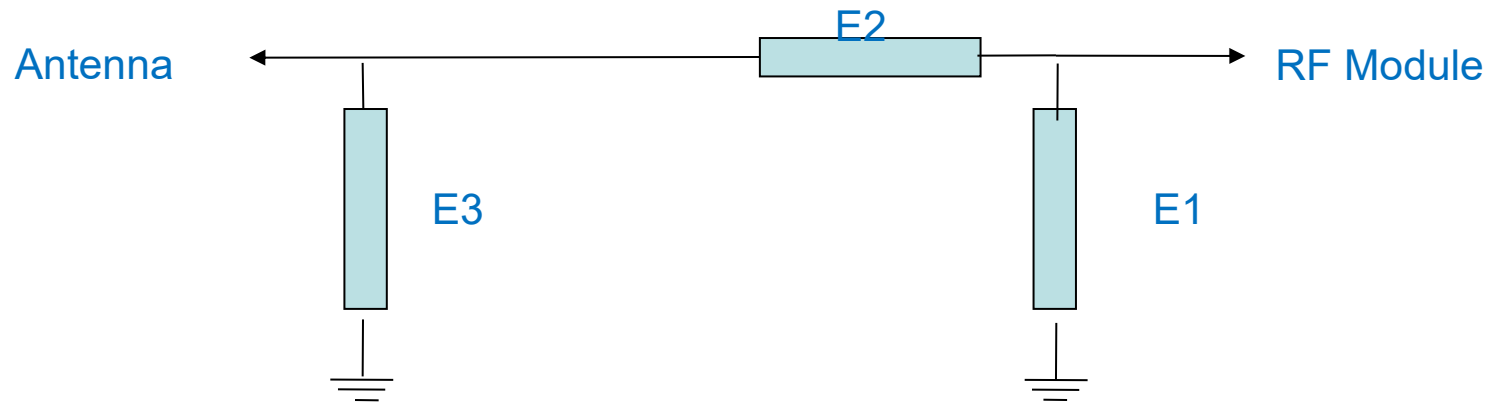


photo of EUT



Unipolar antenna matching network



Element	Value
E1(0402)	NC
E2(0402)	3.9NH
E3(0402)	3NH

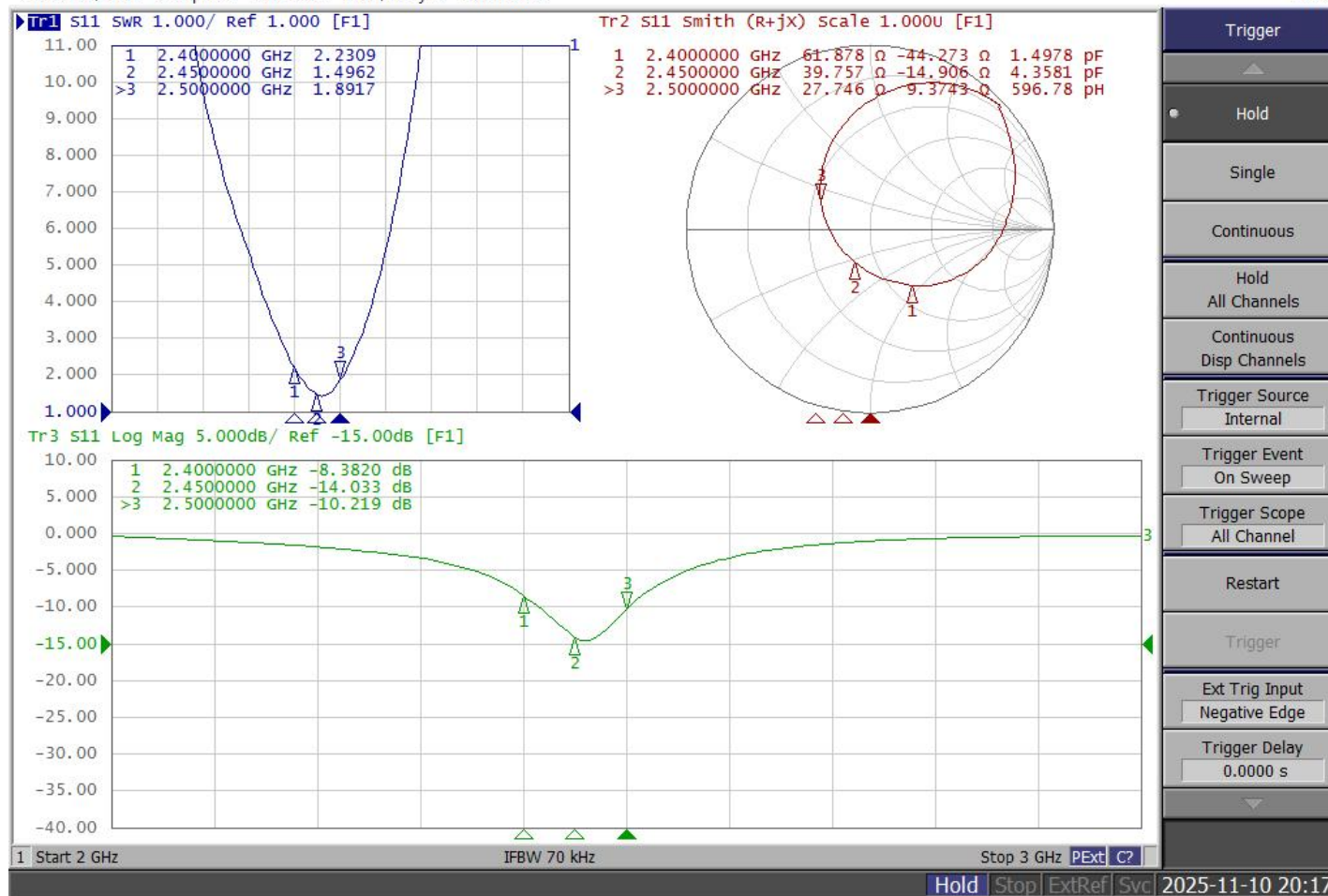
2025-12-17

VSWR:

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

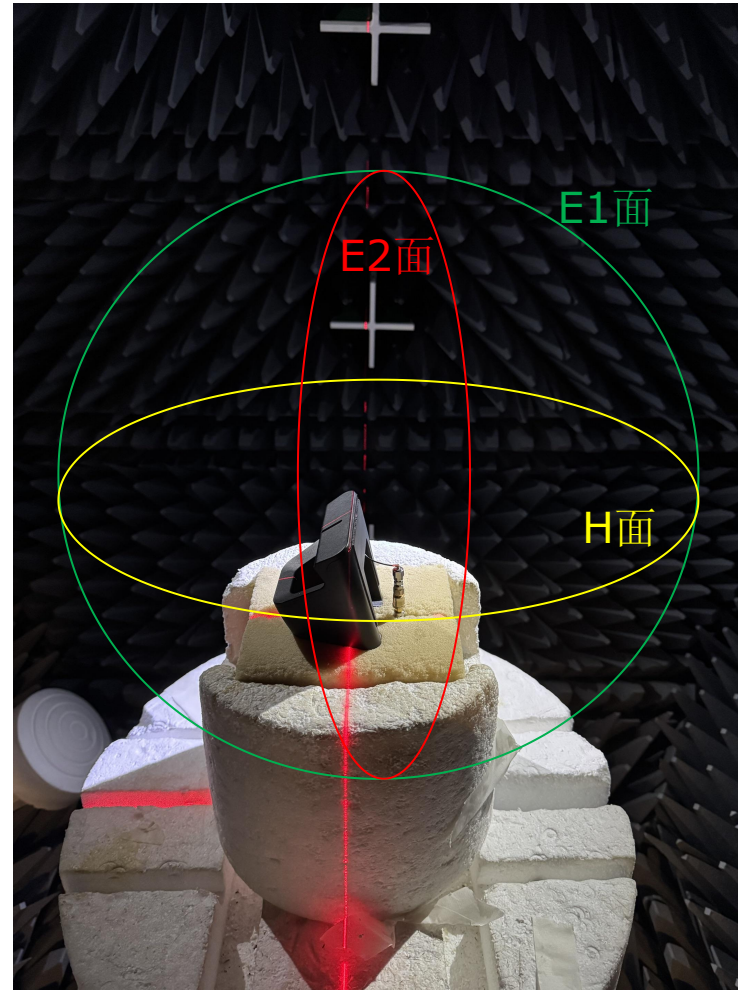
Resize



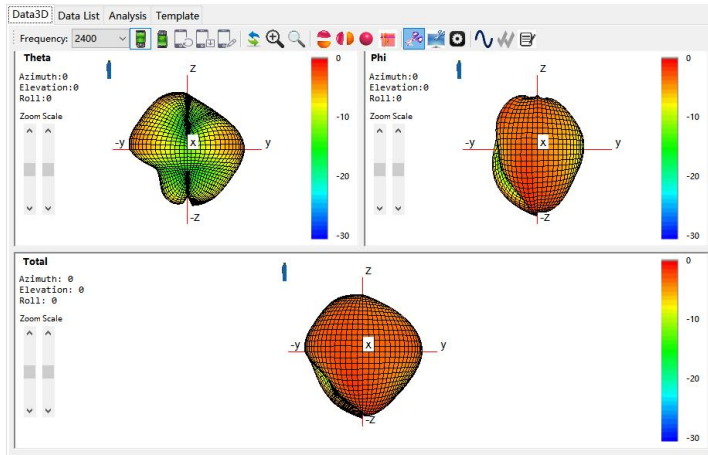
antenna gain:

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	-0.31	42.34
2410	-0.13	43.1
2420	0.09	44.39
2430	0.33	45.95
2440	0.43	46.6
2450	0.59	47.44
2460	0.43	46.23
2470	0.42	45.54
2480	0.13	43.95
2490	-0.06	42.33
2500	-0.14	41.41

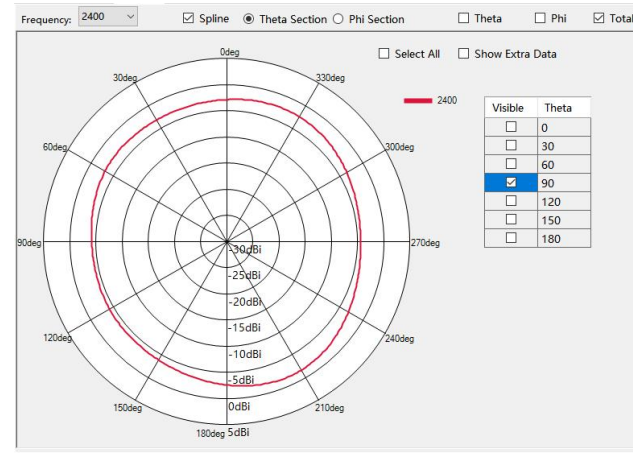
test setup photo



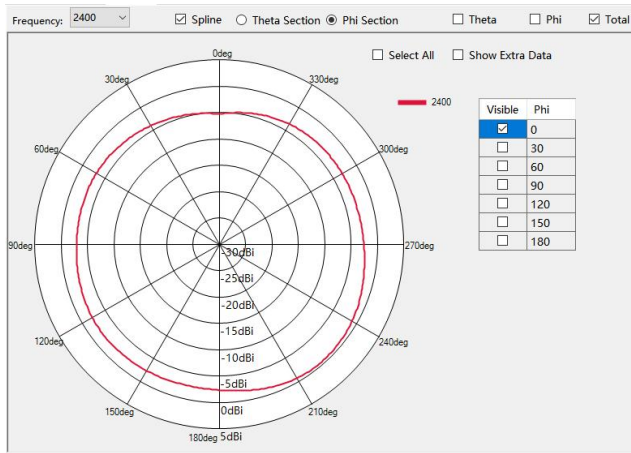
2D/3DRadiation Pattern (2400MHz)



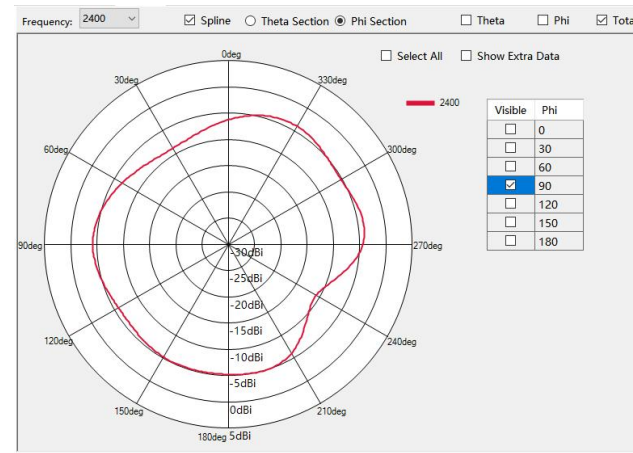
3D



H面

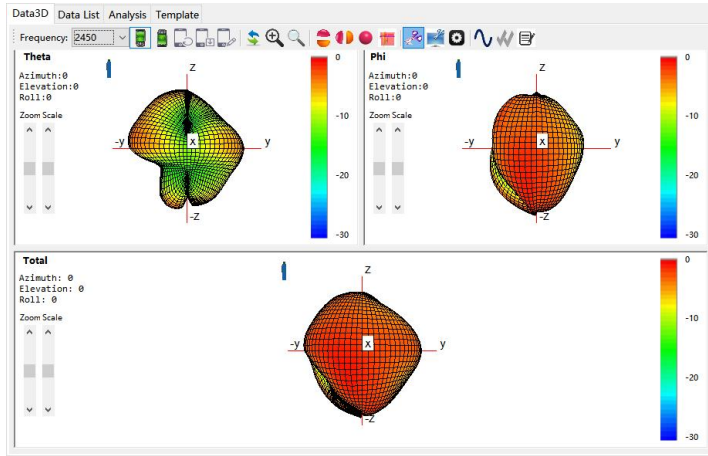


E1面

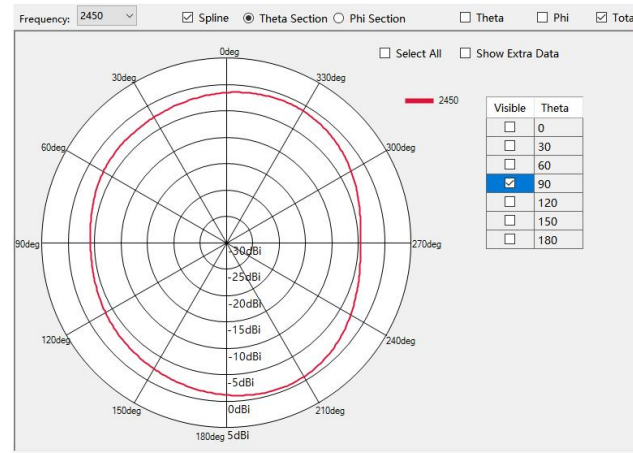


E2面

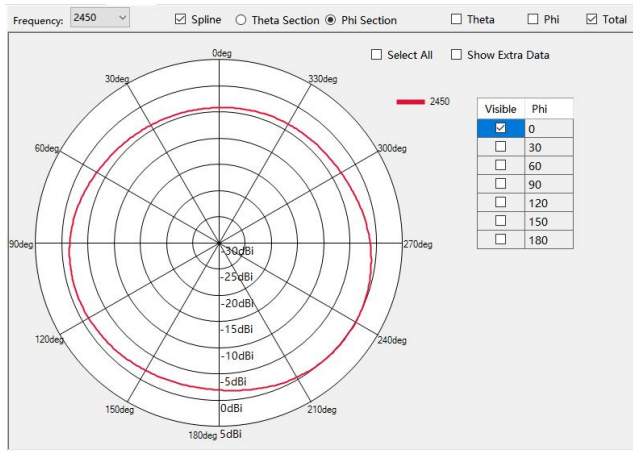
2D/3DRadiation Pattern (2450MHz)



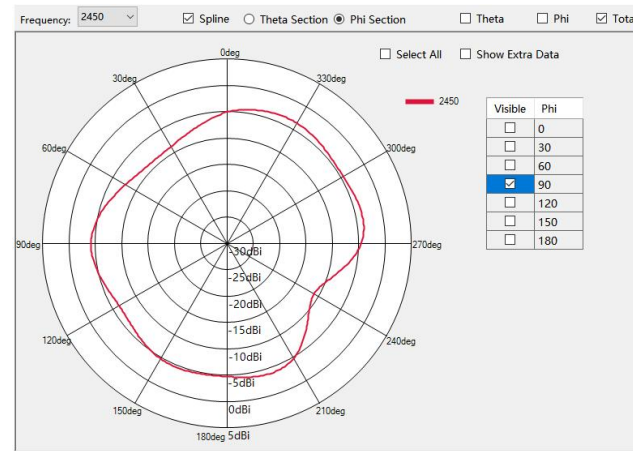
3D



H面

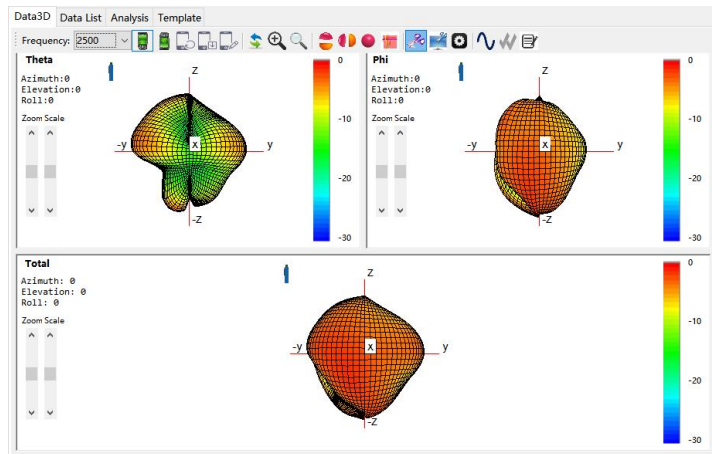


E1面

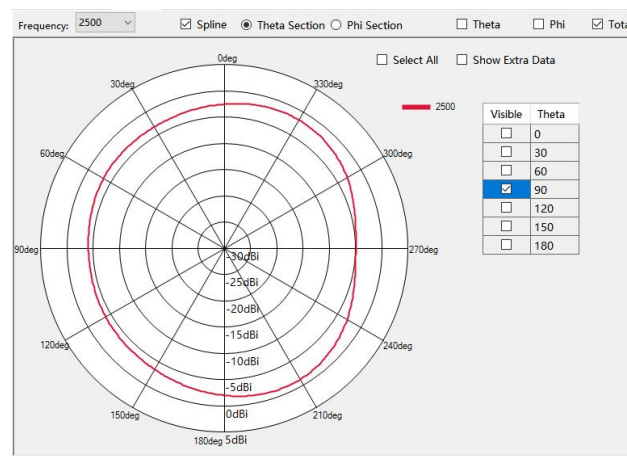


E2面

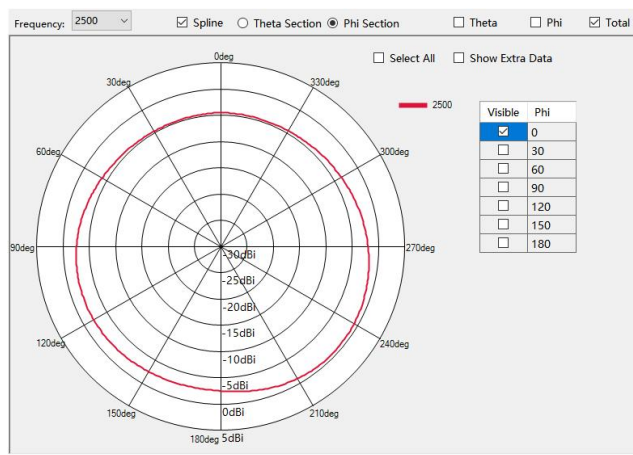
2D/3DRadiation Pattern (2500MHz)



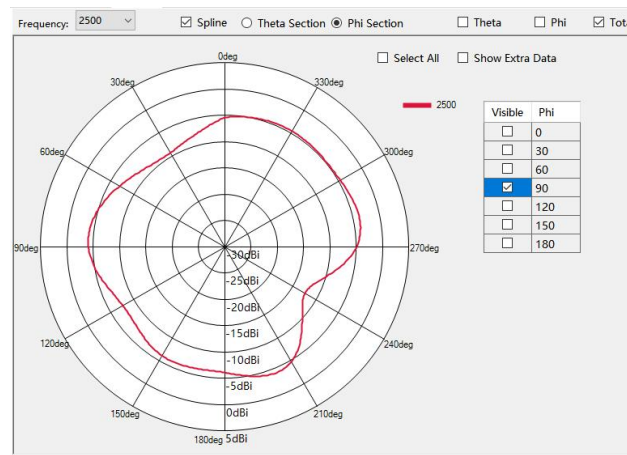
3D



H面



E1面



E2面