

R4 Antenna Test Report

Customer	
Project	R4
Antenna Revision	贴片陶瓷天线（2012C02）
Product Description	PIFA
Product No	V1.0
DATE	2025. 07. 26

Purpose

This report is to measure the performance of BT antenna for R4. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

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 - 4.1 S11 Parameter
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5. Antenna Assembly & environmental processing

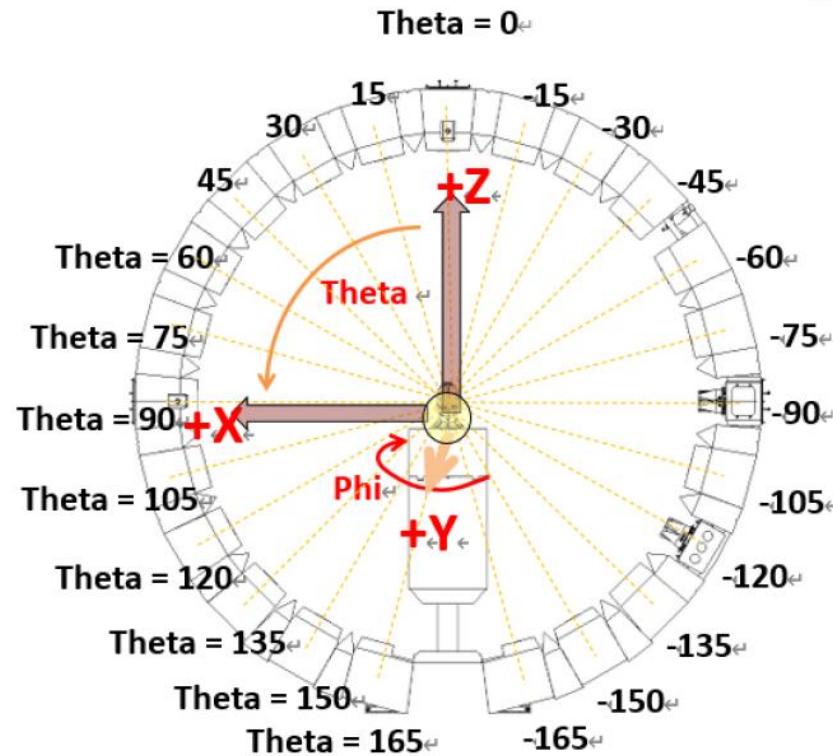
2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



Test Result

Sample status & coordinates

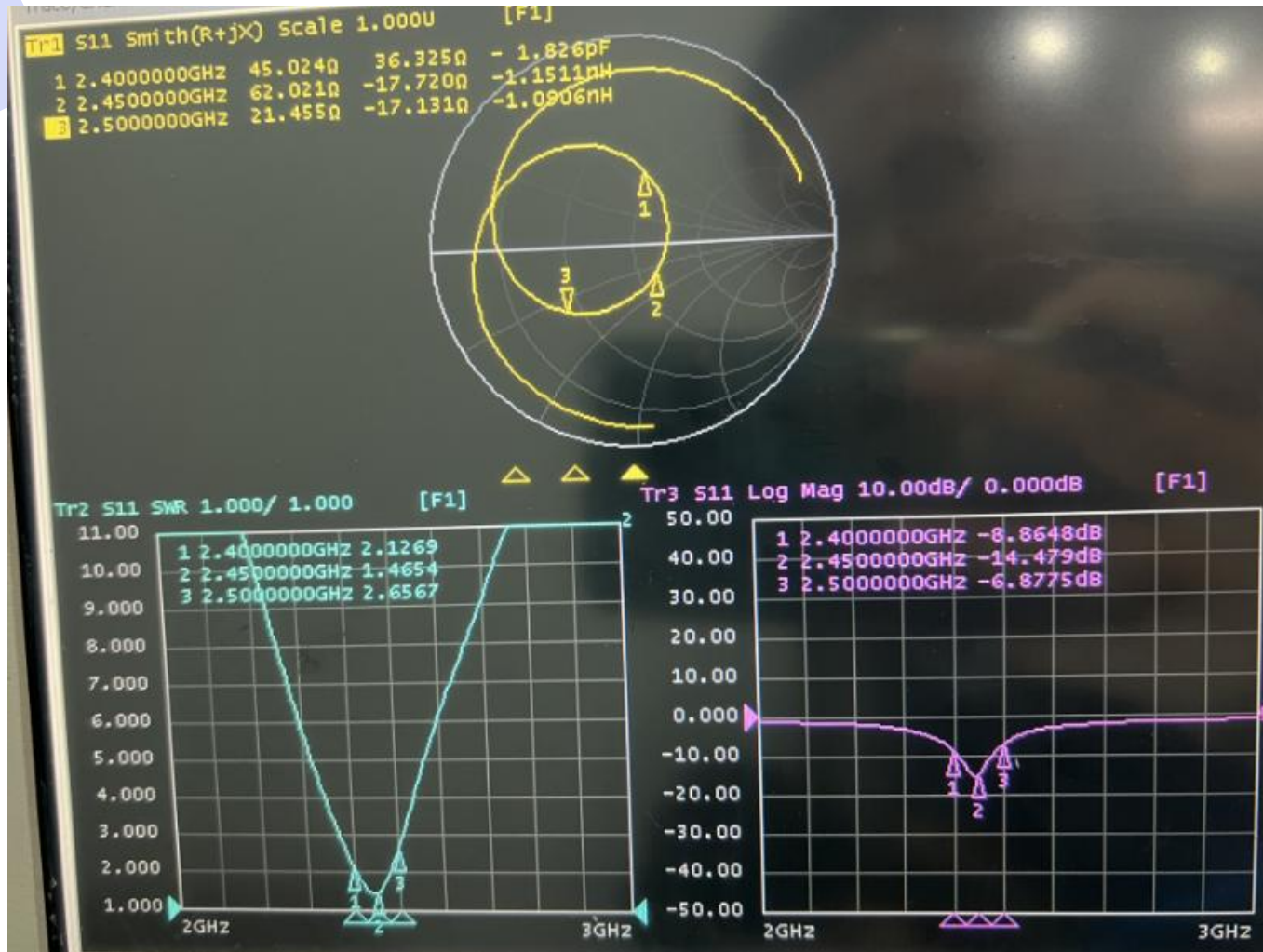


Test Result

OTA-BH



无源S11—(BT ANT L)



无源效率&增益

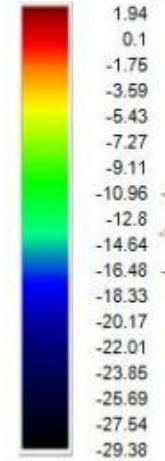
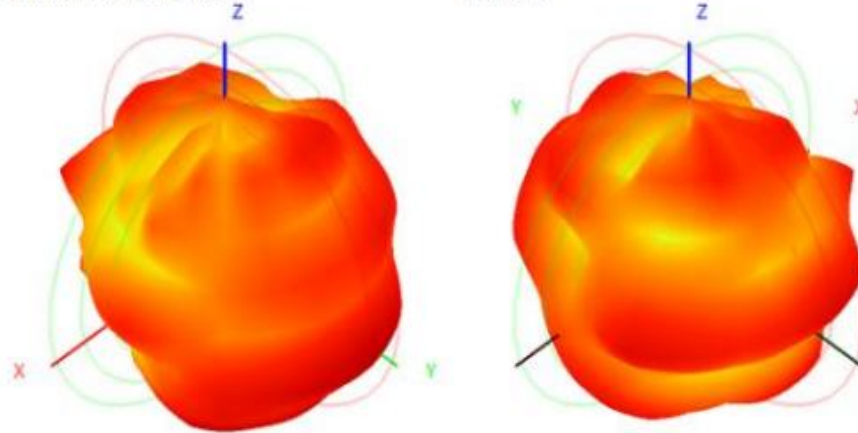
Frequency (MHz)	Peak GAIN (dBi)	Efficiency (%)
2400	-0.20	20.54
2410	0.08	22.39
2420	1.69	25.43
2430	2.39	29.22
2440	2.09	30.41
2450	1.94	31.90
2460	1.89	31.32
2470	1.49	30.47
2480	1.09	28.22
2490	0.71	26.33
2500	0.42	23.76

Test Result

2D&3D — BT-ANT

2450.0MHz H+V, Eff: 31.9%

Back View

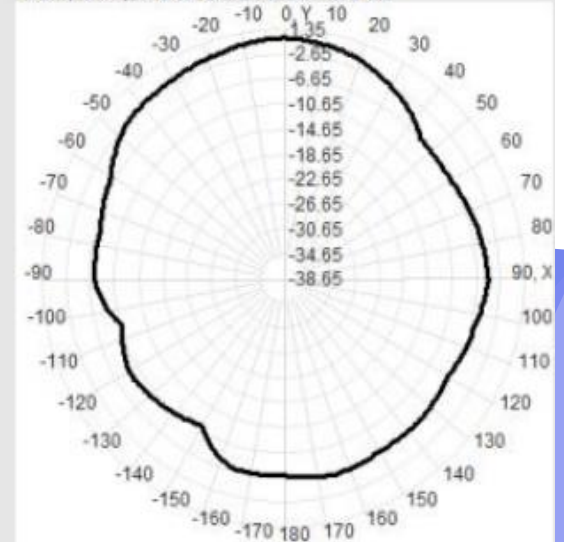
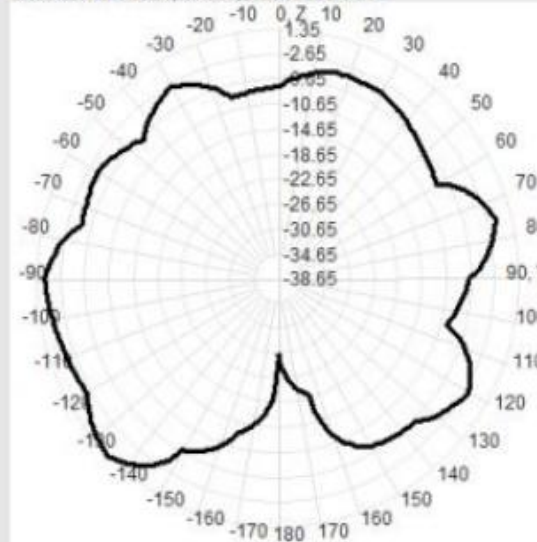
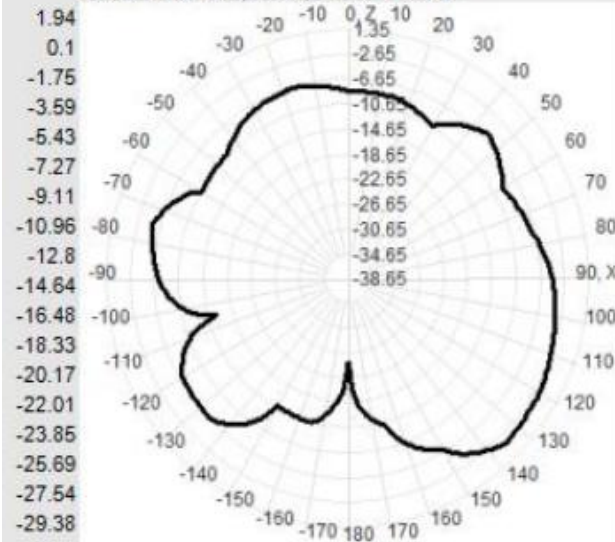


R边

2450.0MHz Total(E1-XZ), Max= -1.70dBi

2450.0MHz Total(E2-YZ), Max= 1.35dBi

Total(H-XY), Max= -0.06dBi, CirD=11.61



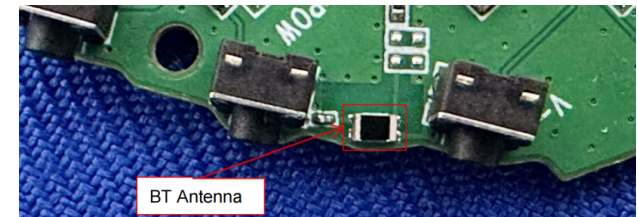
有源测试

FS 自由空间		
BT Test		
CH	TRP	TIS
0	5.85	-87.36
39	5.33	-87.58
78	4.71	-86.78

BH 头模测试		
BT Test		
CH	TRP	TIS
0	4.36	-86.25
39	4.15	-86.11
78	3.89	-85.79

天线尺寸

Dimension (mm)	
L	2.05+0.15
W	1.20+0.15
T	0.50+0.10
A	0.20+0.10



Thanks for your comment!

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