

Antenna Test Report

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Project	R12
Antenna Revision	A0
Prepared by	
Checked by	
Date	2023. 12. 18

Purpose

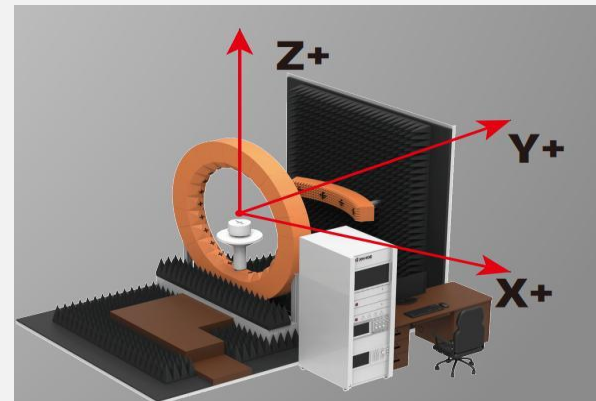
This report is to measure the performance of antenna for **R12** The antenna operating frequency at 2400-2500MHz,All test data are showed as below.

Content

- 1.Test system
- 2.Product Overview Dimension
- 3.Test Result
 - 3.1 S11 Parameter
 - 3.2 Gain & Efficiency
 - 3.3 2D Pattern

1. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C

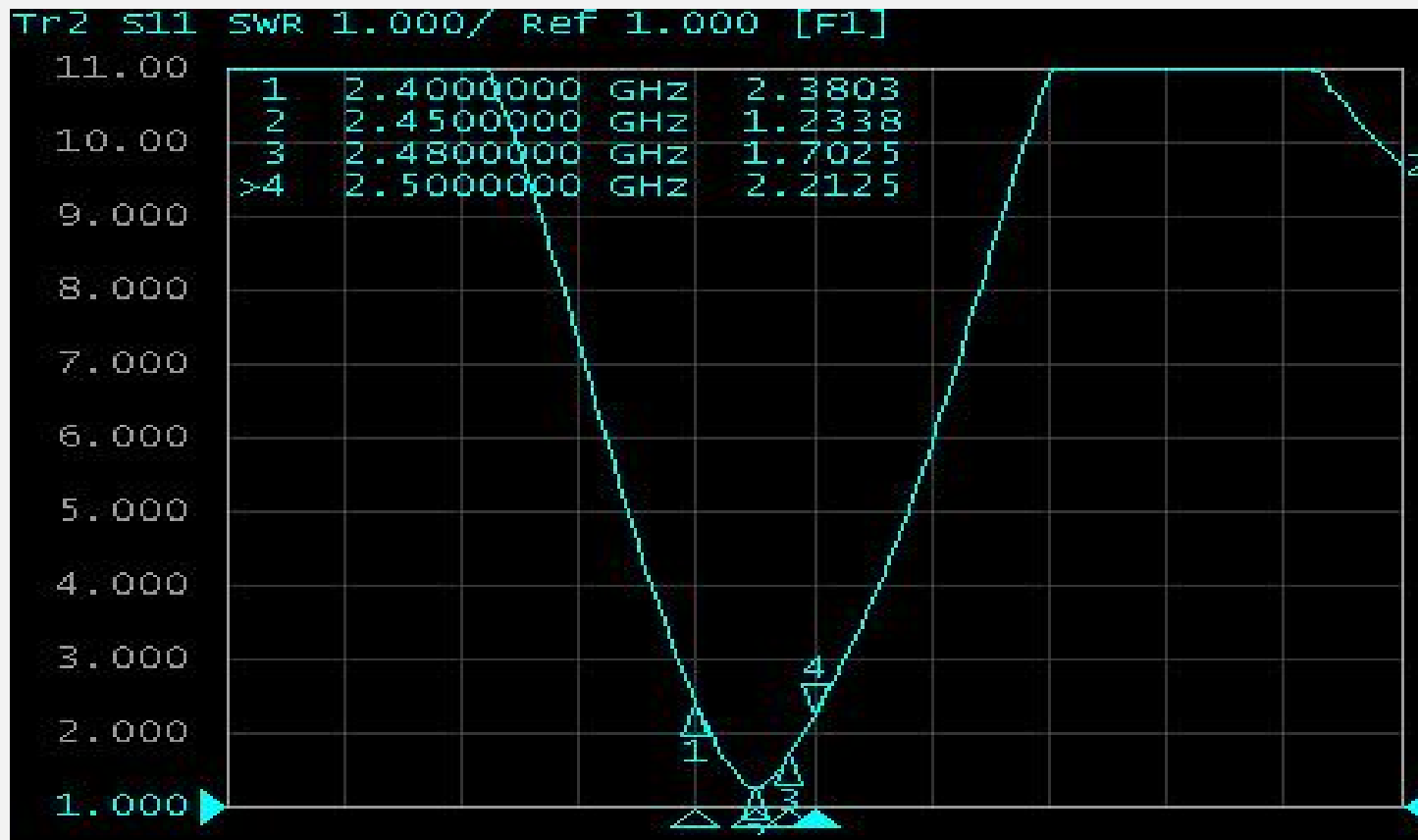


2.Product Overview & Dimension



3.Test Result-L

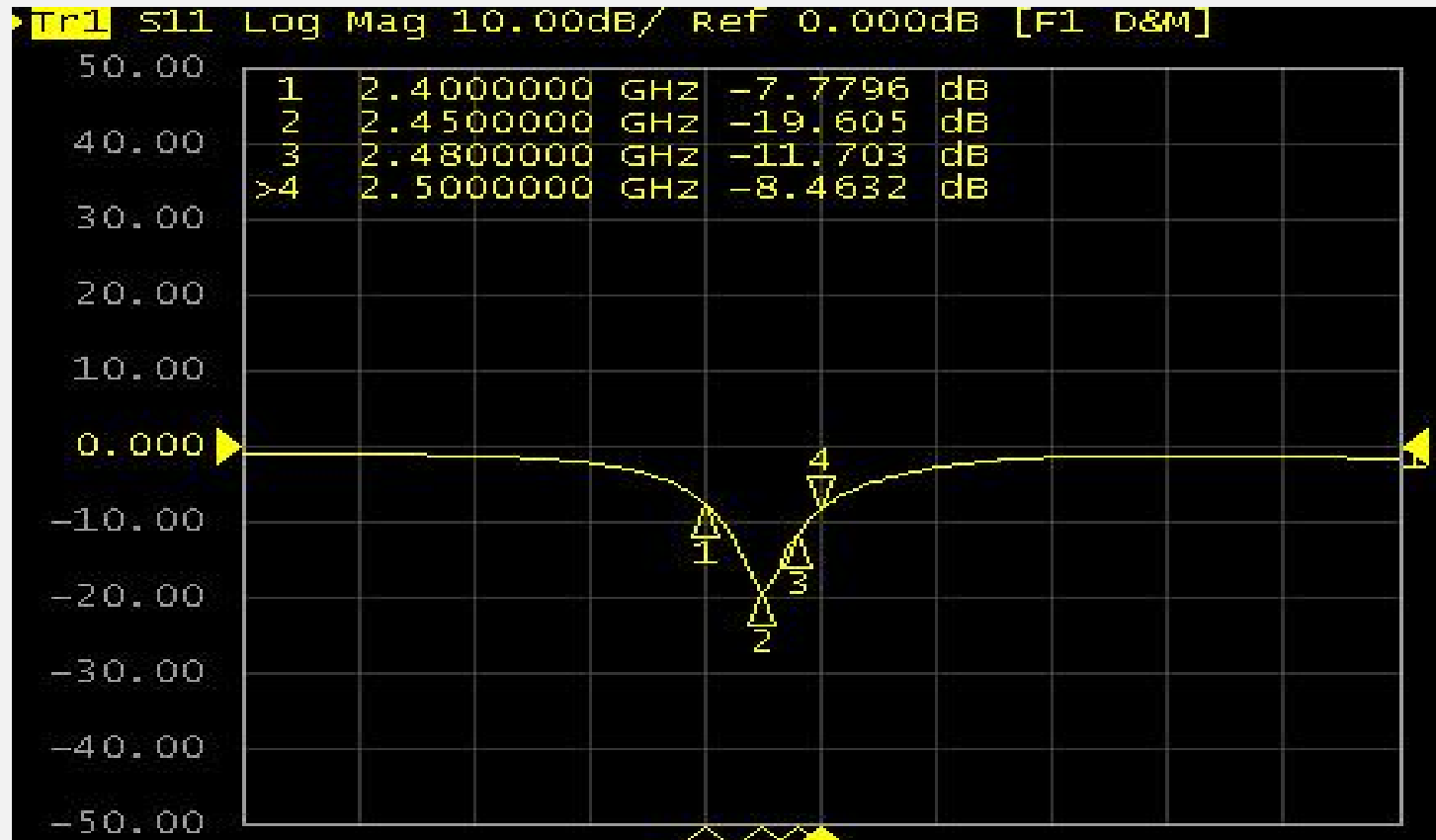
3.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	2.38	1.23	1.70	2.21

3. Test Result-L

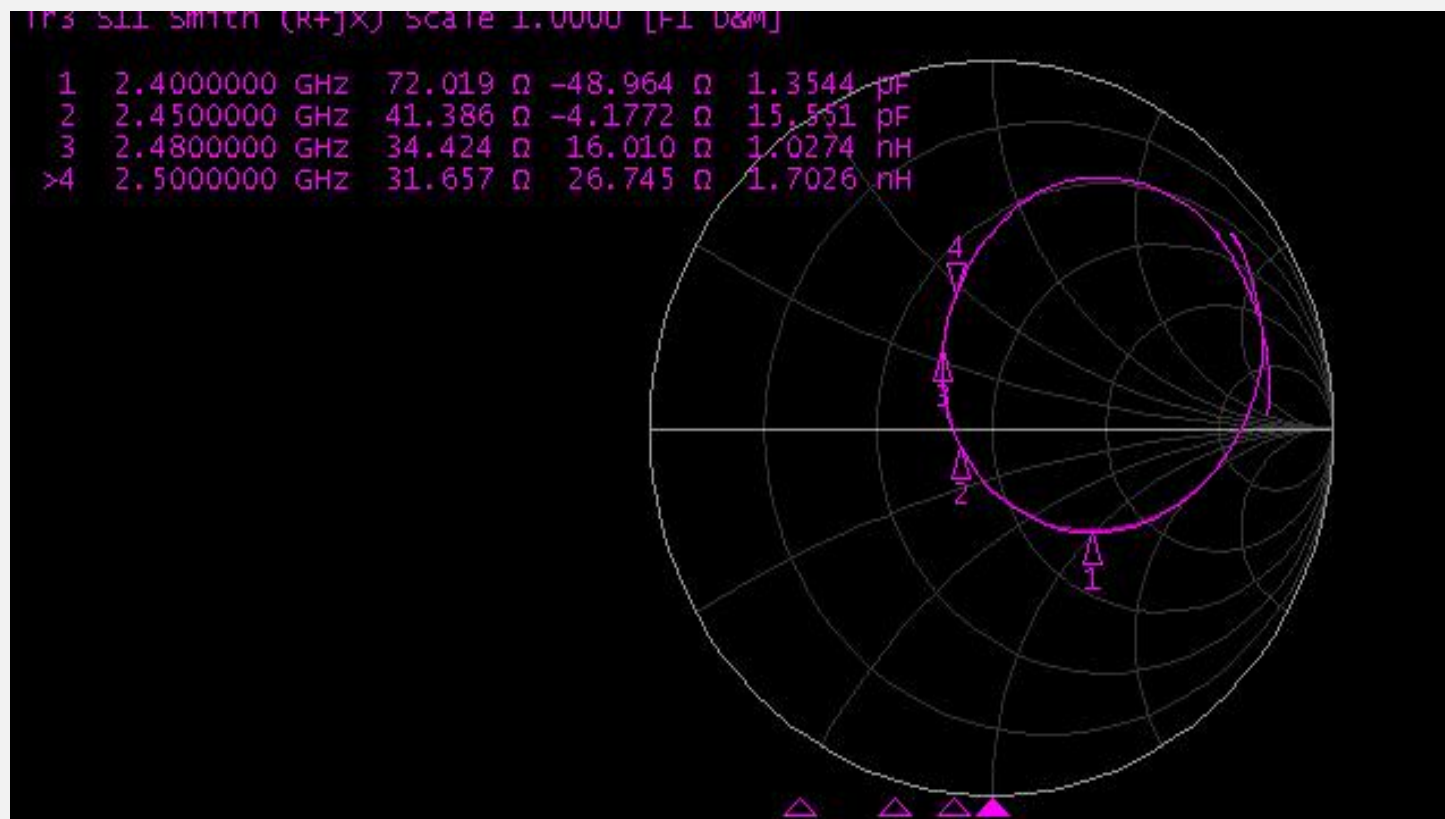
3.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-7.77	-19.60	-11.70	-8.46

3.Test Result-L

3.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	72.01	41.38	34.42	31.65

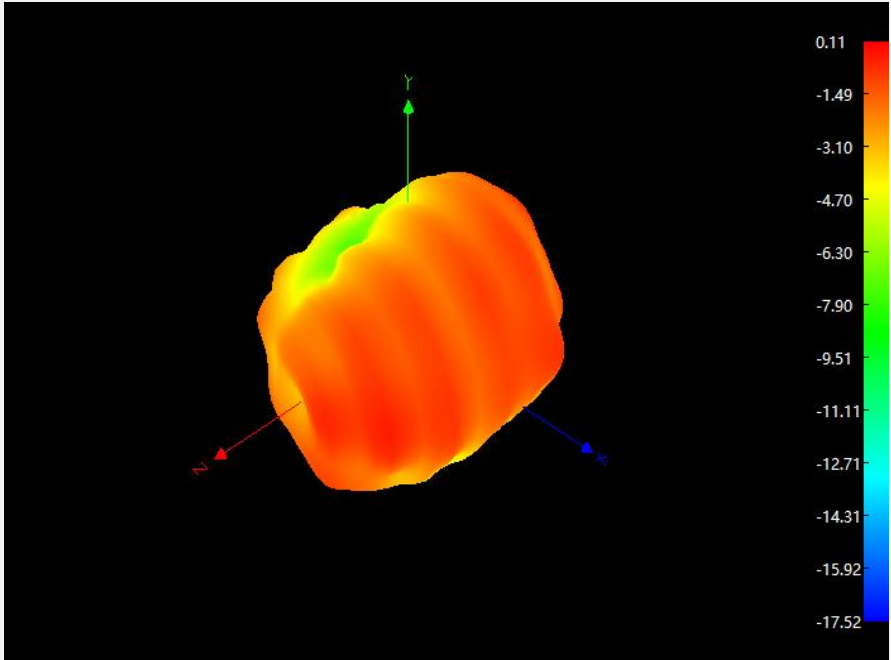
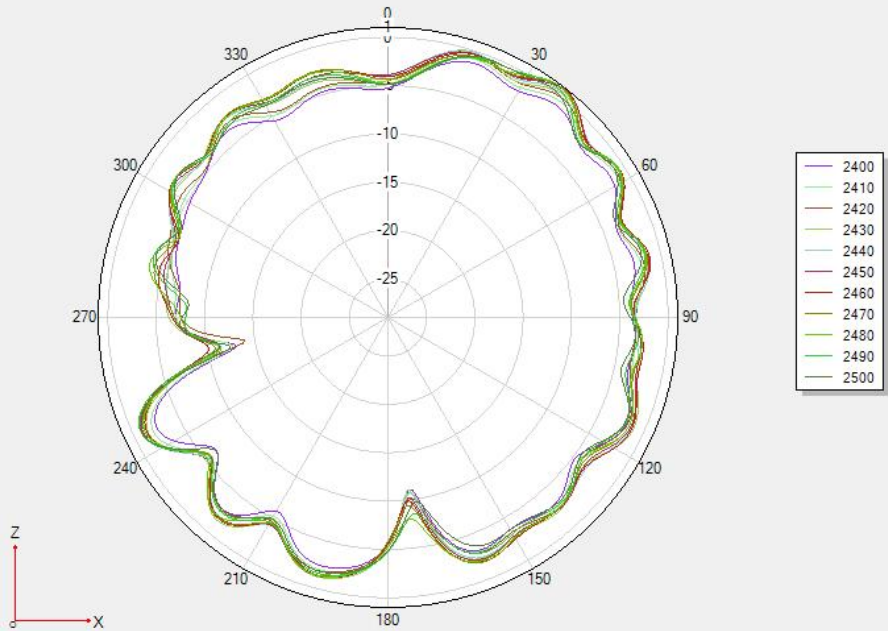
3. Test Result-L

3.2 Gain & Efficiency—ANT

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	32.36	0.11
2410	35.81	0.44
2420	38.82	1.23
2430	39.66	0.92
2440	40.98	0.97
2450	41.50	1.20
2460	41.13	1.28
2470	40.46	1.19
2480	39.76	1.15
2490	39.02	0.97
2500	37.24	0.63

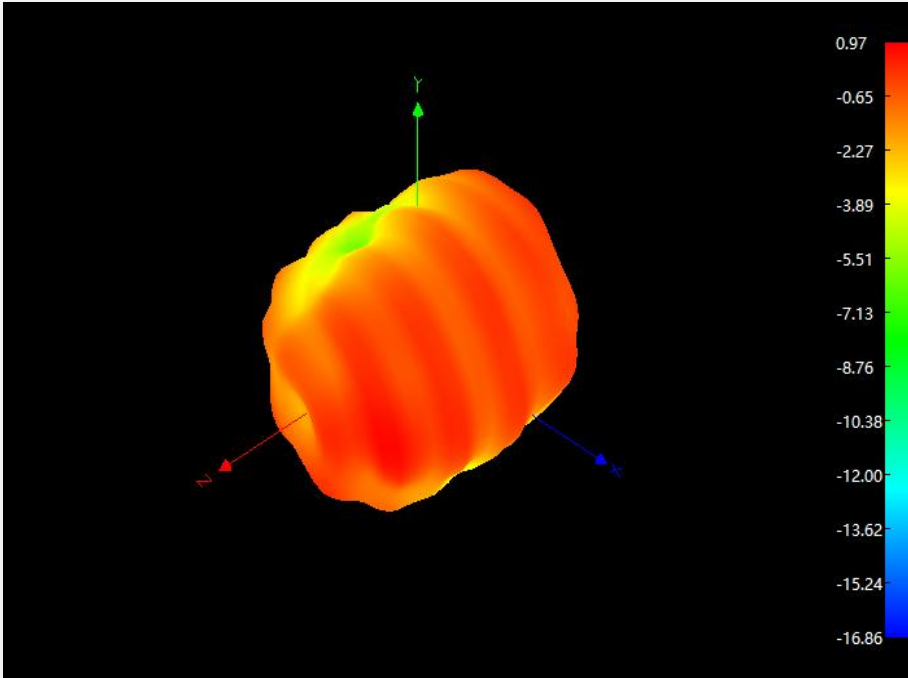
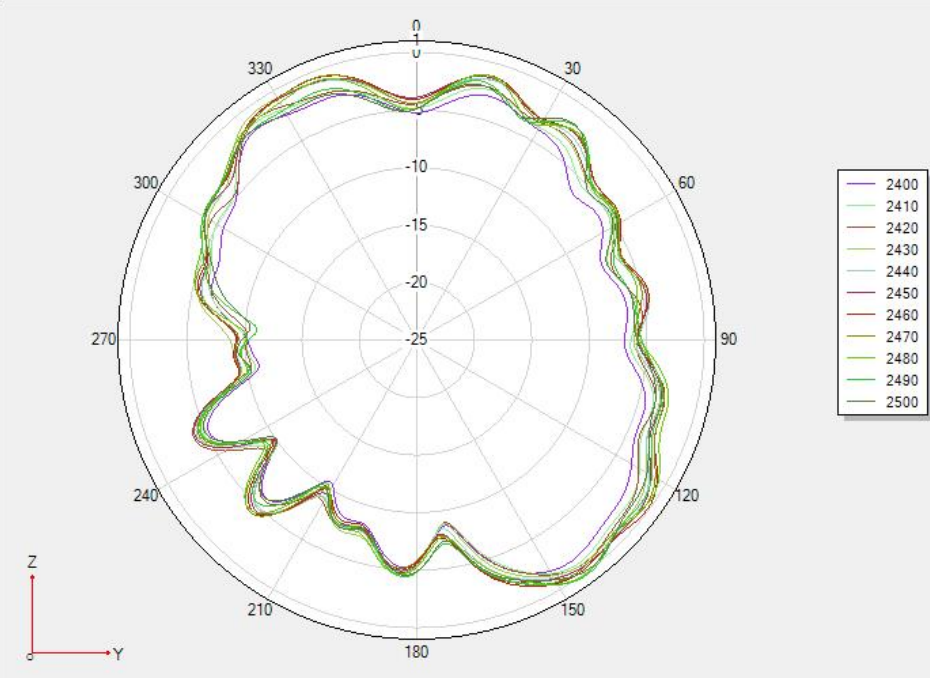
3. Test Result-L

3.3 2D Pattern—BT ANT



3. Test Result-L

3.3 2D Pattern—BT ANT



Thank you!