



Customer	极客
Project	U30
Antenna Revision	A0
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Date:	2022. 09. 27

Purpose

This report is to measure the performance of antenna for **U30** The antenna operating frequency at 2400MHz-2500 MHz 。 All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Test Result

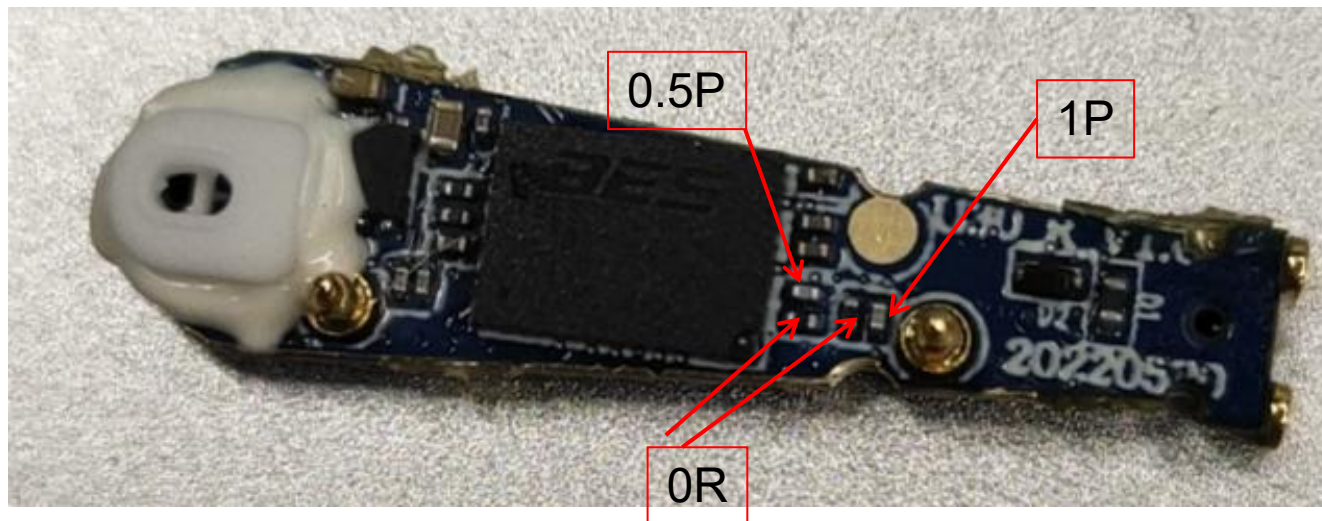
3.1 S11 Parameter-VSWR

3.2 Gain & Efficiency

3.3 2D Pattern

4.OTA

3 匹配图



左右共用匹配

4.Test Result

4.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.66	1.23	1.37	1.55

4. Test Result

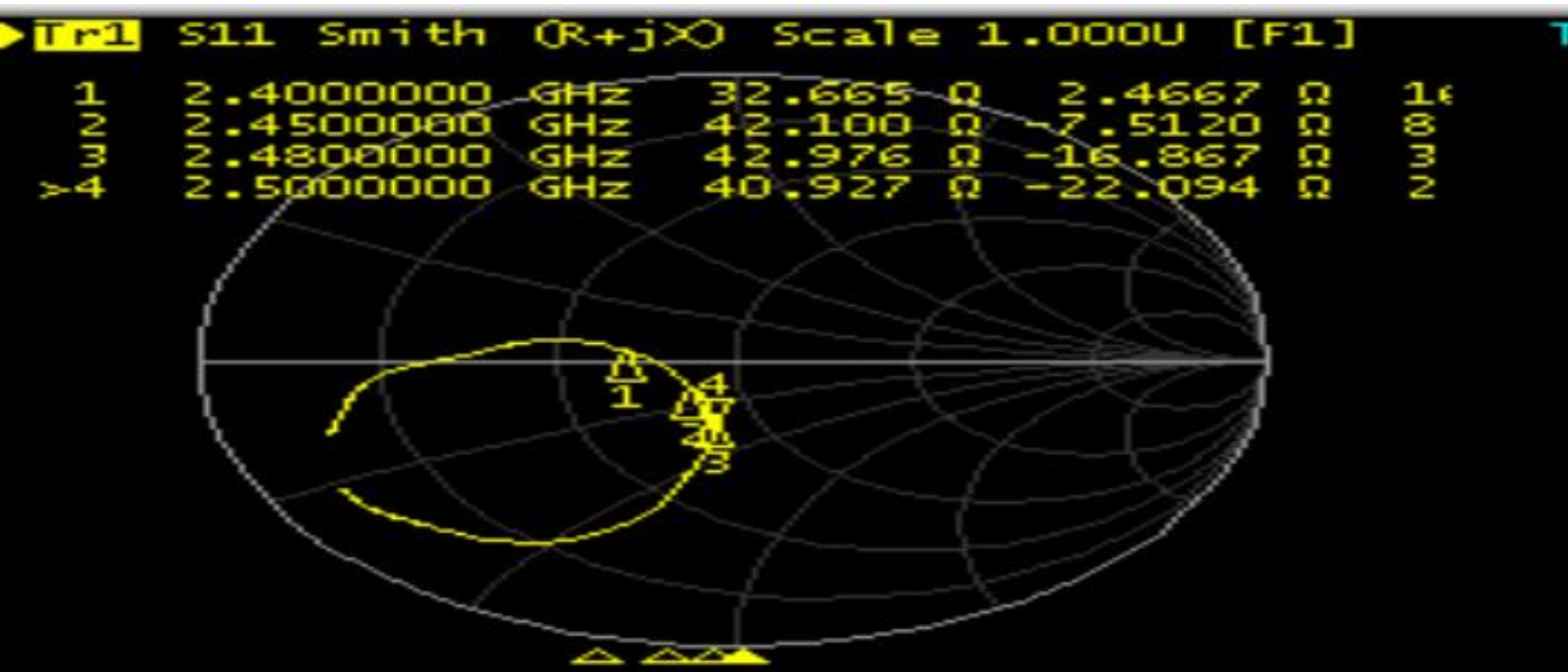
4.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-12.02	-19.50	-16.01	-13.20

4.Test Result

4.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	32.66	42.10	42.97	40.92

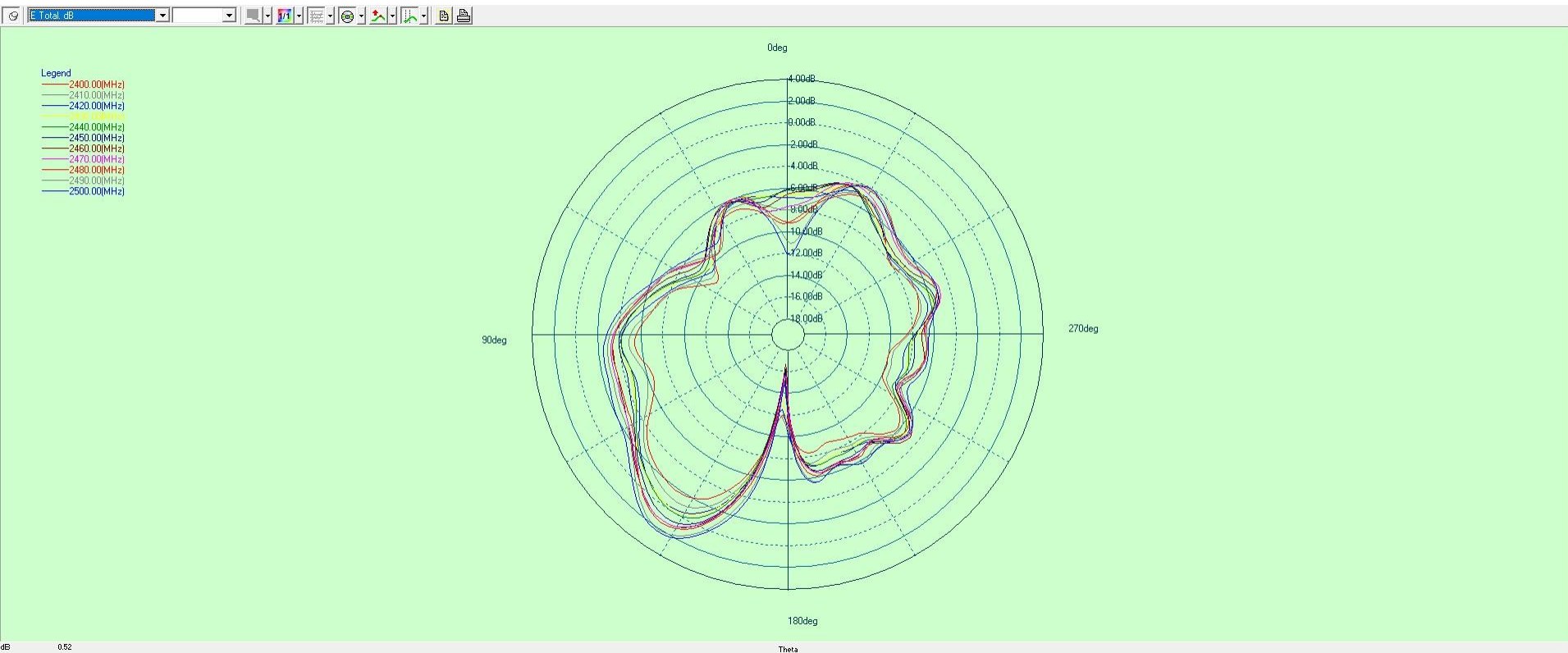
4. Test Result

4.2 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	25.64%	0.49
2410	27.65%	0.35
2420	30.81%	0.48
2430	32.23%	1.21
2440	32.39%	1.67
2450	34.86%	1.67
2460	38.66%	1.86
2470	39.38%	2.50
2480	38.17%	2.68

4. Test Result

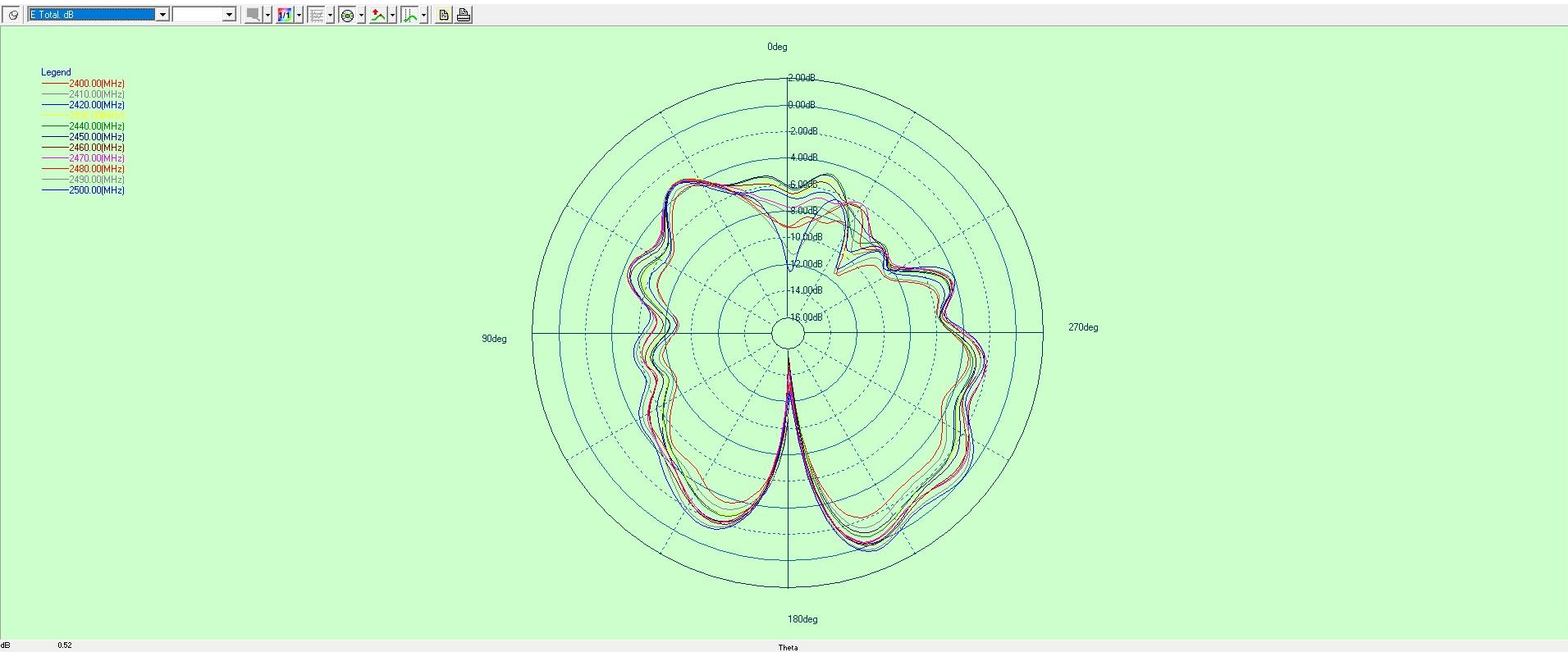
4.3 2D Pattern——BT ANT



X-Z Plane

4. Test Result

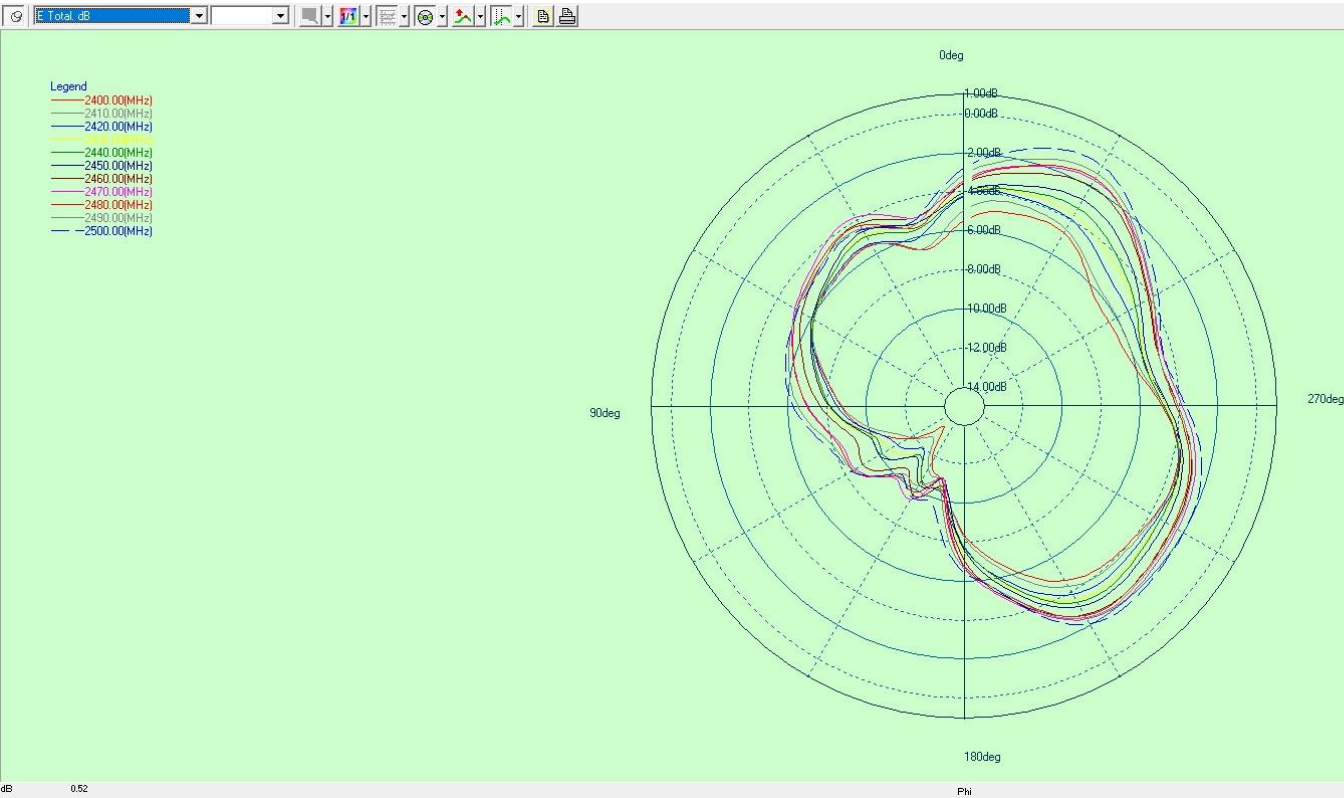
4.3 2D Pattern——BT ANT



Y-Z Plane

4. Test Result

4.3 2D Pattern——BT ANT



Y-Z Plane

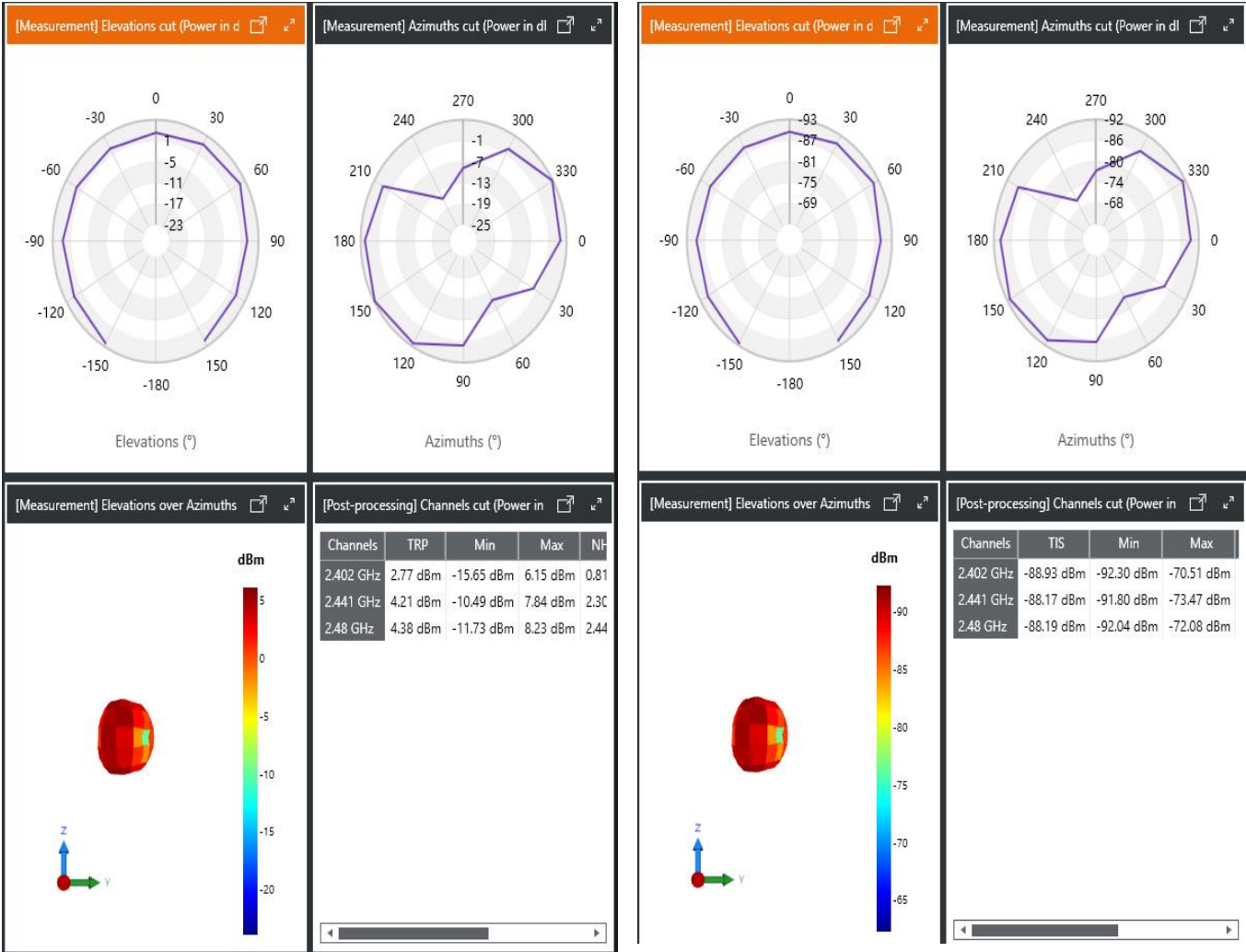
4.5 OTA Data

试产机器

Test Equipment:	R&S CMW500		
Test Condition:	2D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
试产机器2#BT-L	0	2.77	-88.93
	39	4.21	-88.17
	78	4.38	-88.19
试产机器2#BT-R	0	4.98	-90.14
	39	5.05	-90.50
	78	4.74	-89.99

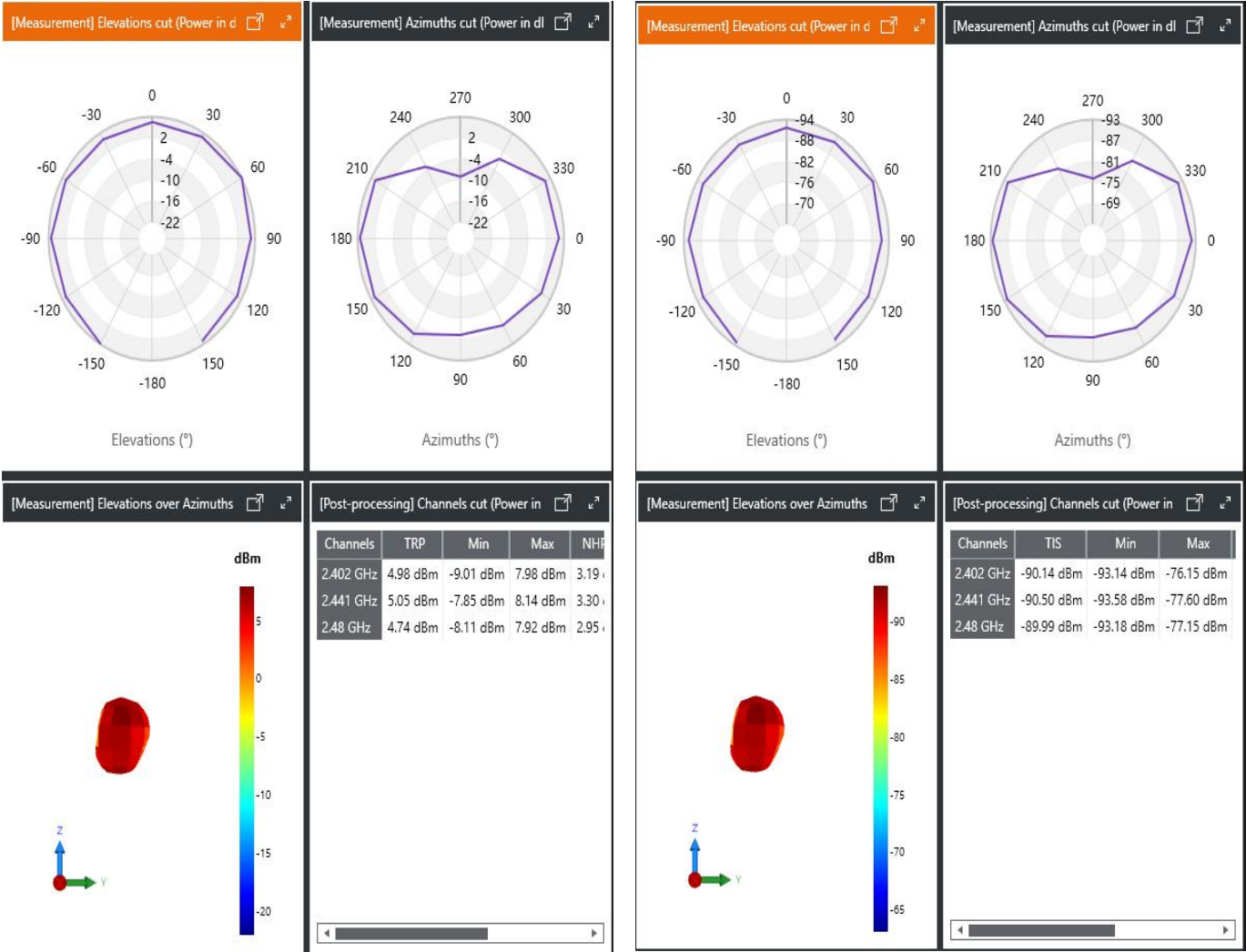
4. Test Result

4.4 2D Pattern——BT ANT



4. Test Result

4.4 2D Pattern——BT ANT



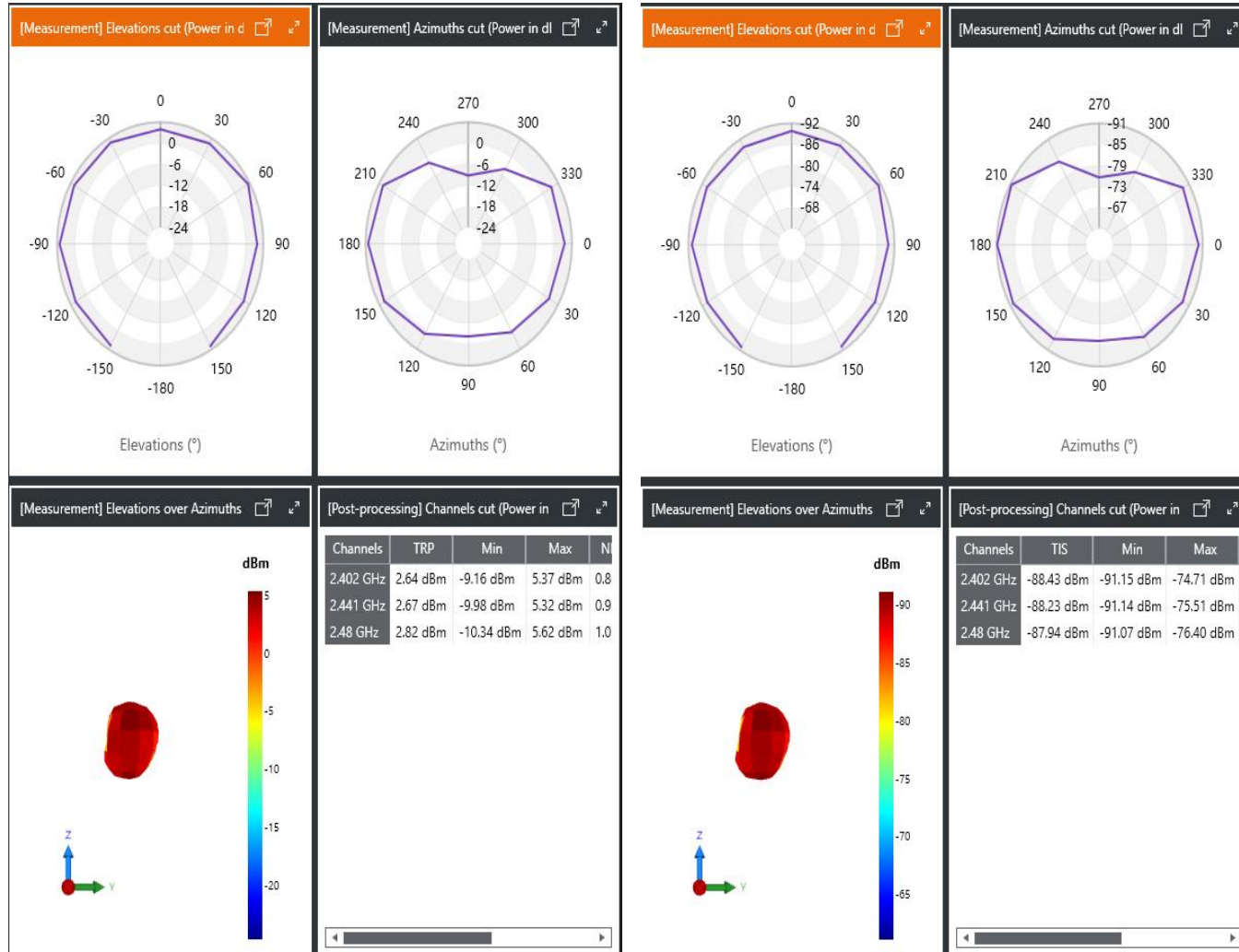
4.5 OTA Data

大货板机器

Test Equipment:	R&S CMW500		
Test Condition:	2D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
大货板机器BT-L	0	2.64	-88.43
	39	2.67	-88.23
	78	2.82	-87.94
大货板机器BT-R	0	3.81	-88.23
	39	3.87	-88.55
	78	3.08	-88.01

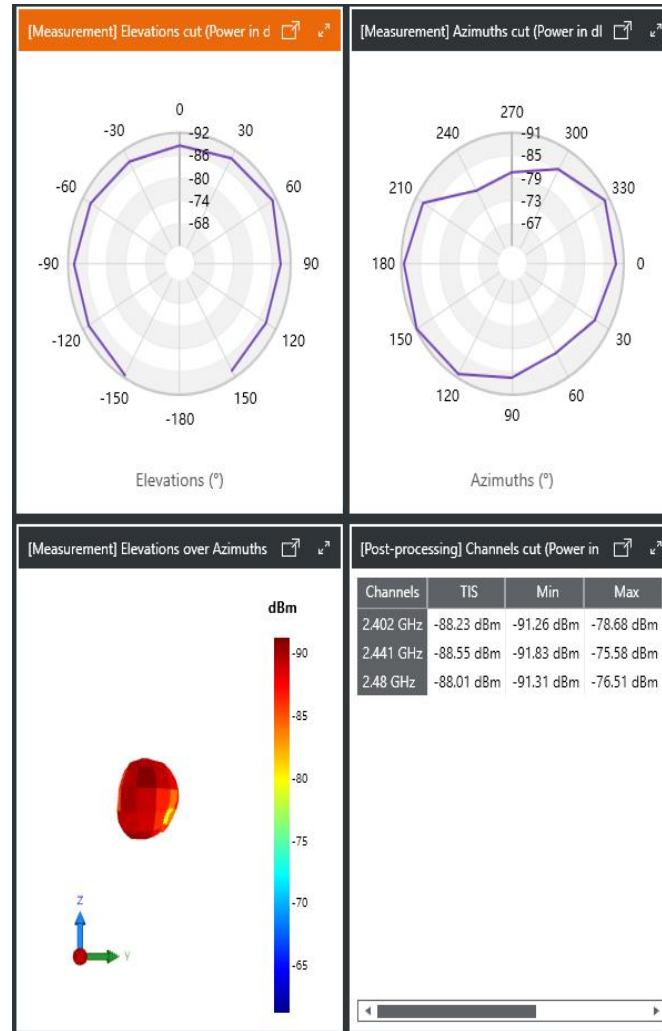
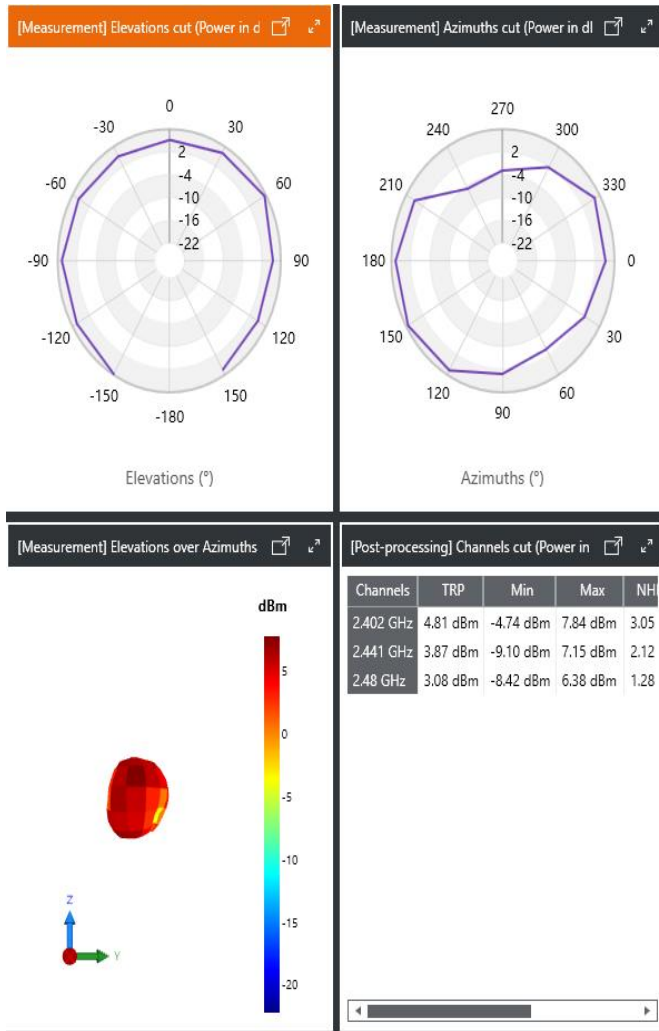
4. Test Result

4.4 2D Pattern——**BT ANT**



4. Test Result

4.4 2D Pattern——**BT ANT**



Thank you!