

Antenna Test Report



Customer	kingshang
Project	BT0037
Antenna Revision	A0
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Checked by	
Date:	2024. 5. 16

Purpose

This report is to measure the performance of antenna for **BT0037**。 The antenna operating frequency at **2400-2500MHz**。 All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Test Result
 1. ***S11 Parameter-VSWR***
 2. ***Gain & Efficiency***
 3. ***2D Pattern***

1. Product Overview & Dimension

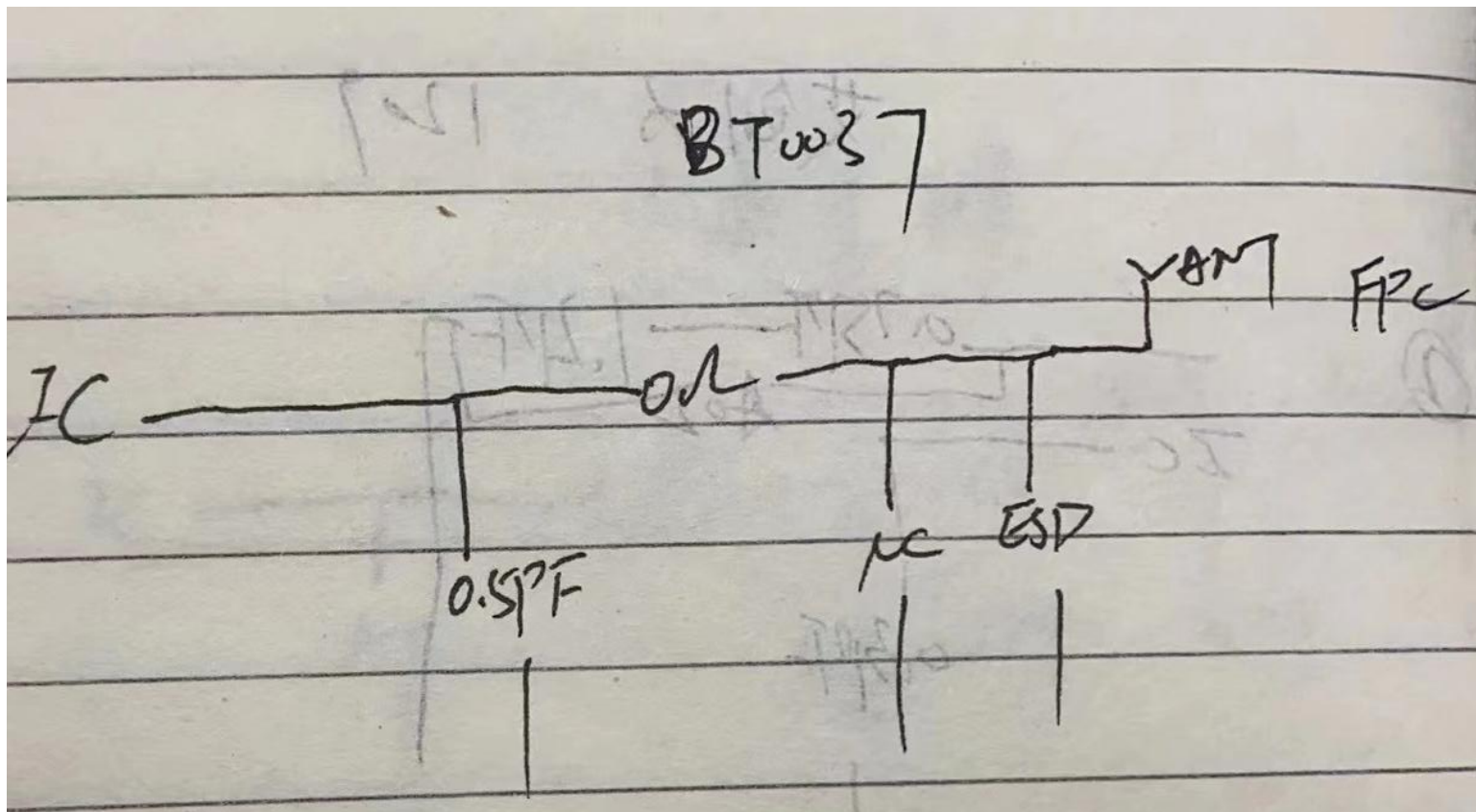


2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

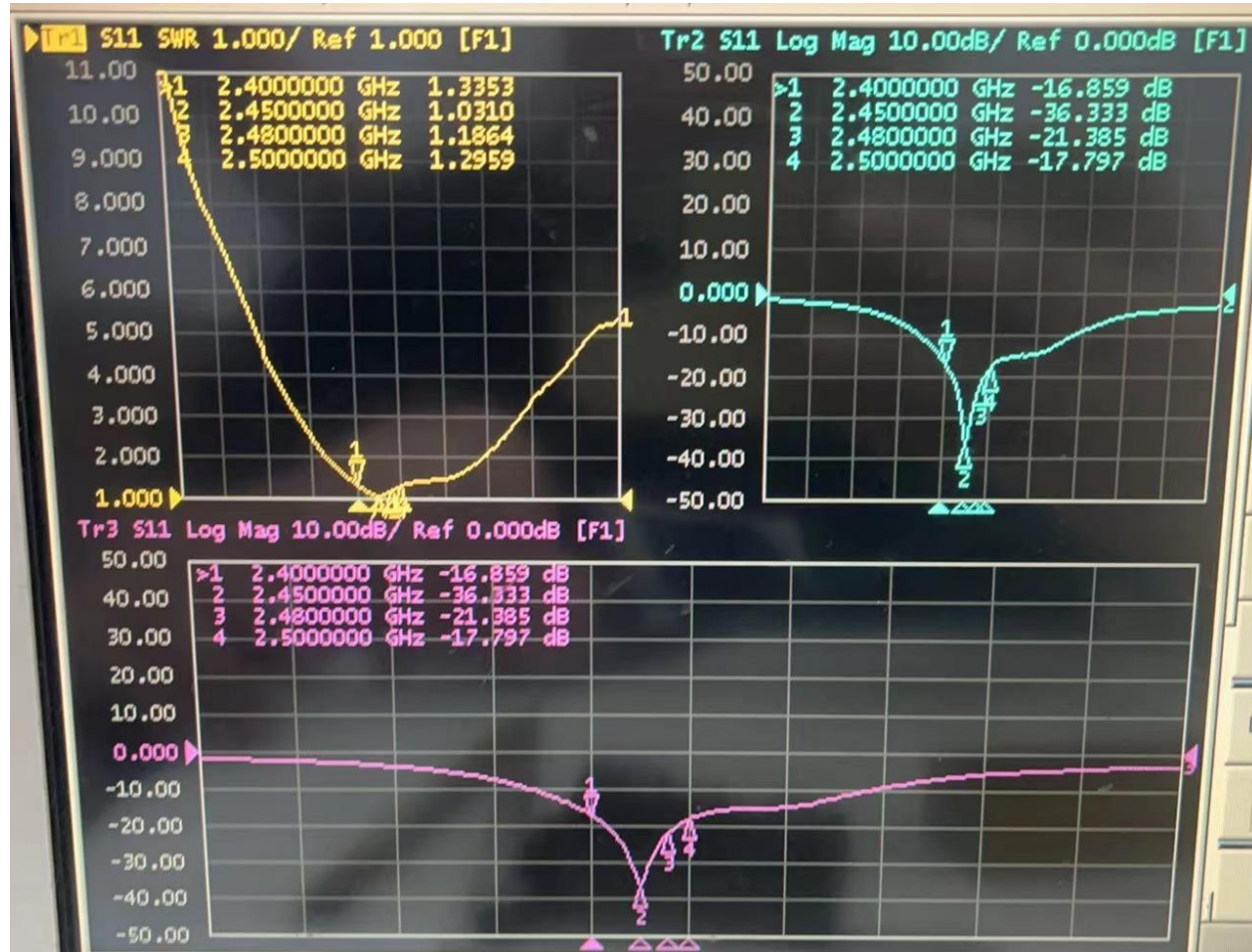


3. Match graph



4. Test Result

S11 Parameter-VSWR



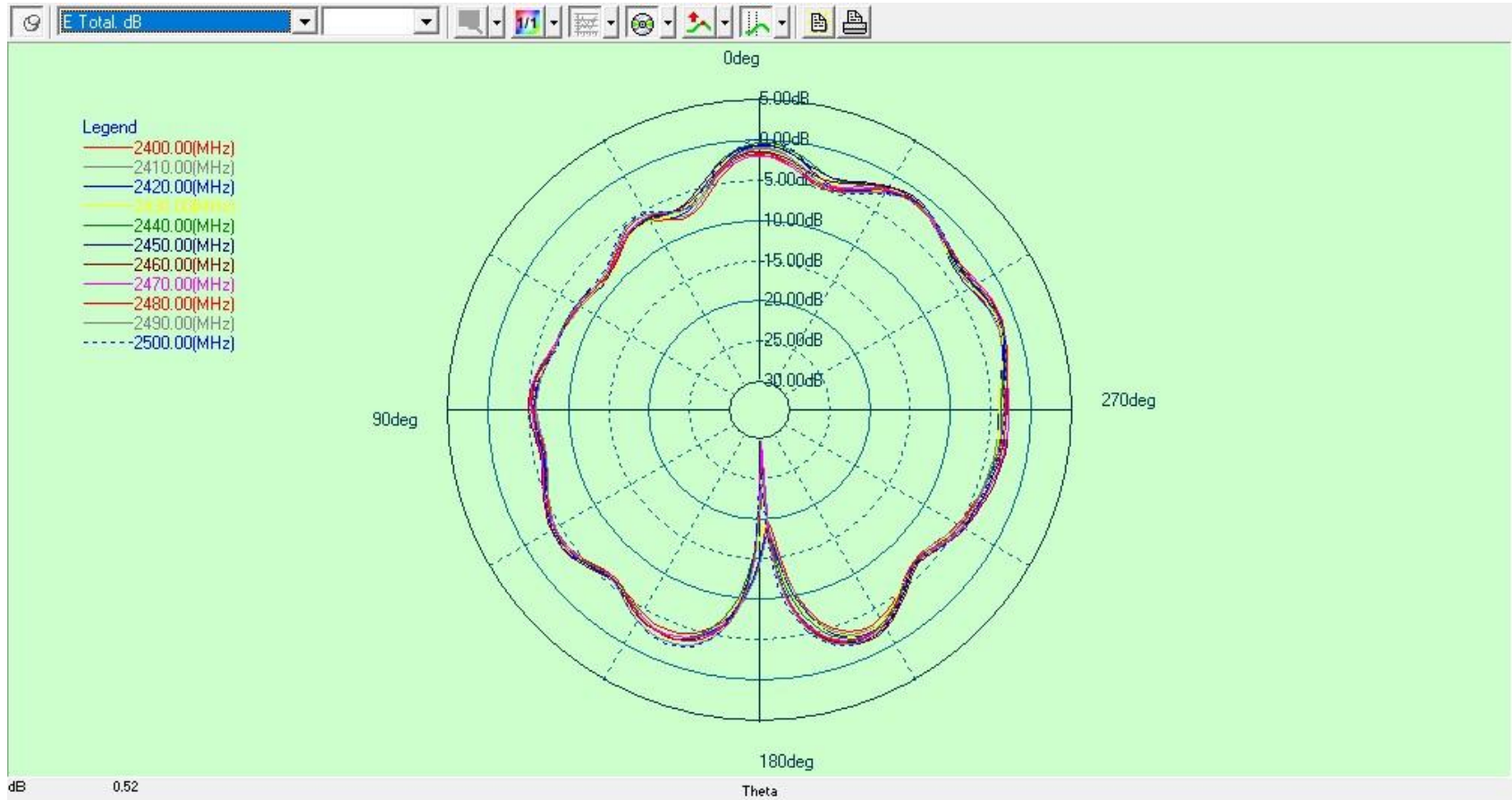
4.1. Test Result-

Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	36.6%	-1.08
2410	36.8%	-0.88
2420	38.2%	-0.41
2430	38.1%	-0.19
2440	39.2%	-0.11
2450	40.7%	-0.08
2460	40.6%	-0.12
2470	38.8%	-0.58
2480	36.4%	-0.48
2490	35.1%	-0.56
2500	34.6%	-0.63

4.2. Test Result-

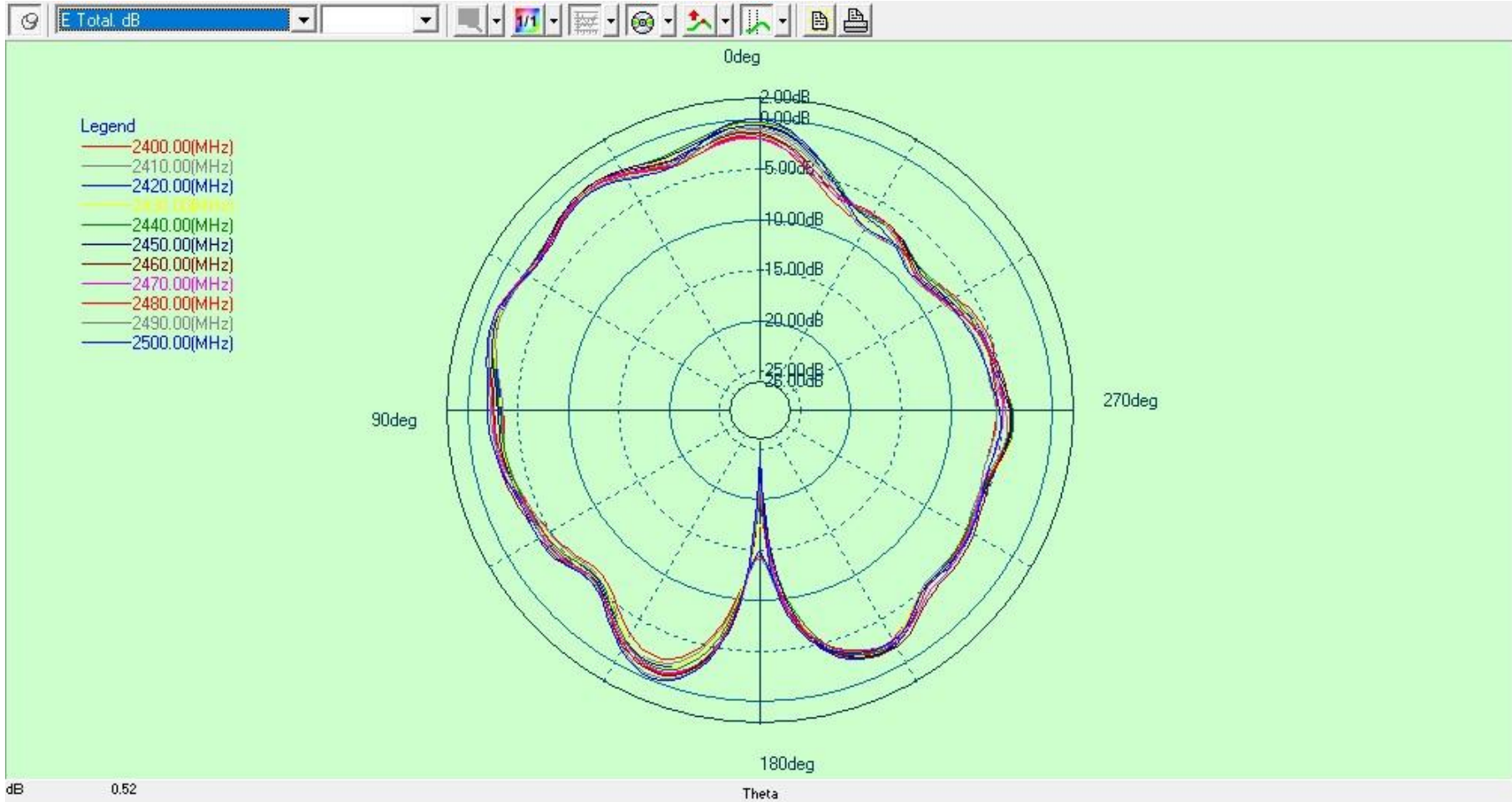
2D Pattern



Phi=0 **Horizontal polarization**

4.2. Test Result-

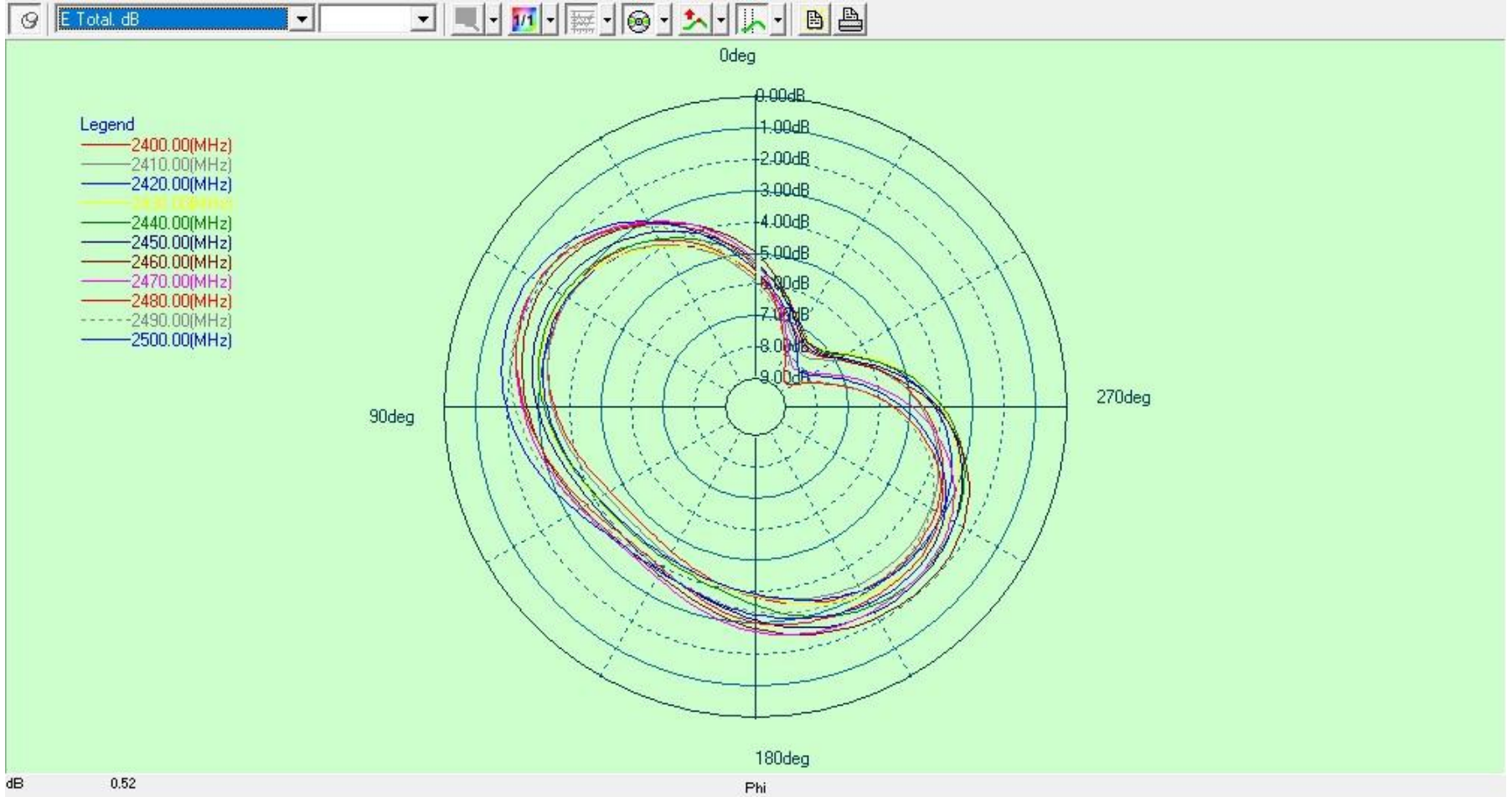
2D Pattern



Phi=90 Horizontal polarization

4.2. Test Result-

2D Pattern



Theta=90 Vertical polarization

4.3. Test Result-OTA

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		channel	TRP (dBm)	TIS (dBm)
BT	L	0	4.30	-86.76
		39	4.30	-86.88
		78	4.40	-86.60

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		channel	TRP (dBm)	TIS (dBm)
BT	R	0	4.44	-87.43
		39	4.28	-86.75
		78	4.32	-86.33

Address: 2/F, Building B25, Hengfeng industrial city, Hezhou community, Xixiang Street, Baoan District, Shenzhen City.

Thank you!