



YONG CHENG INTERNATIONAL(OTA)

ME298调测报告

Antenna Test Report



◆ 日期 2024年02月29日

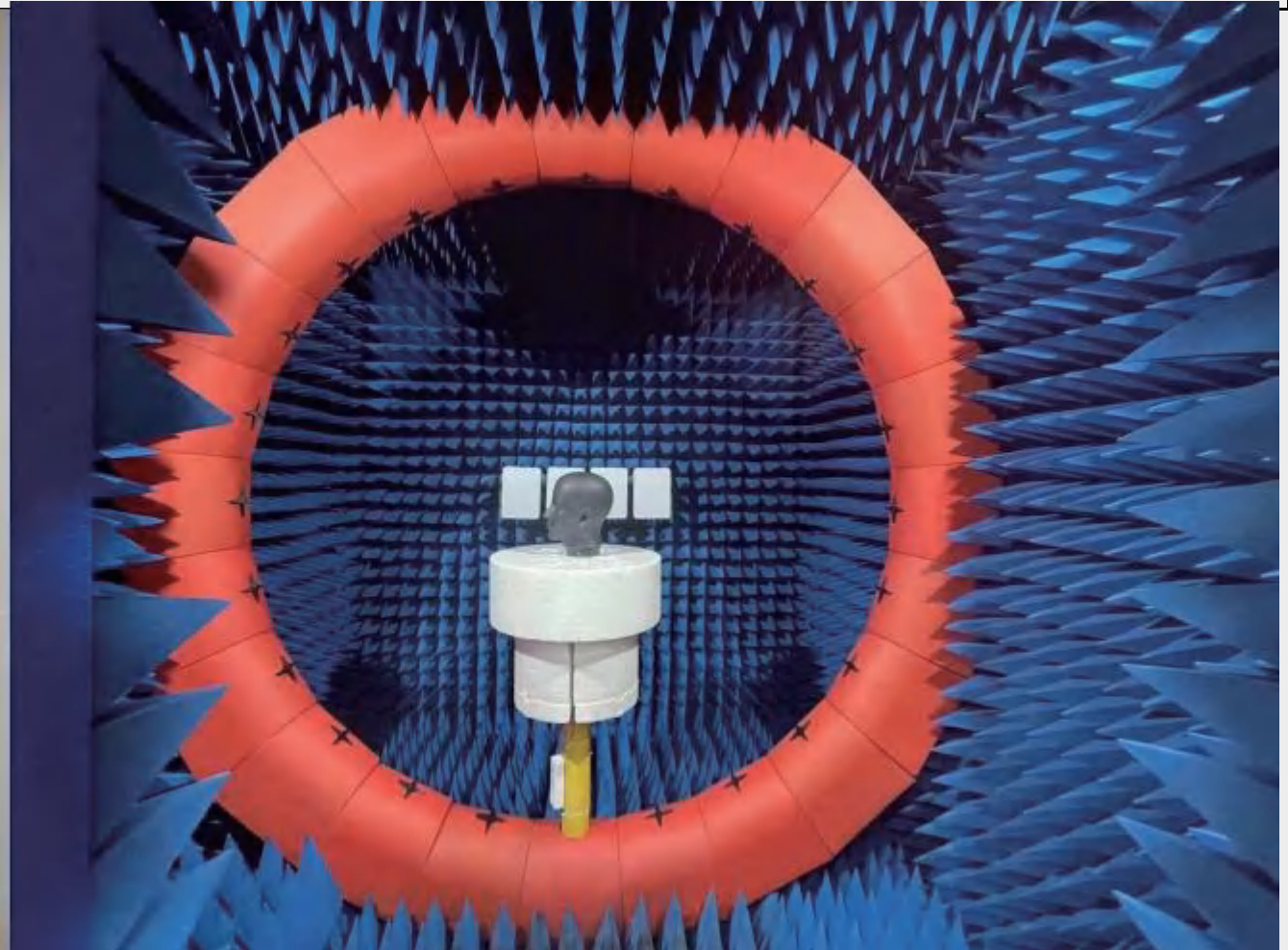
Test item	
1	Matching parameter
2	Network debugging antenna S parameters
3	Microwave darkroom test OTA active data
4	Measurement of antenna efficiency field pattern in microwave darkroom
5	measuring distance
6	Assembly item
7	summary of commissioning test



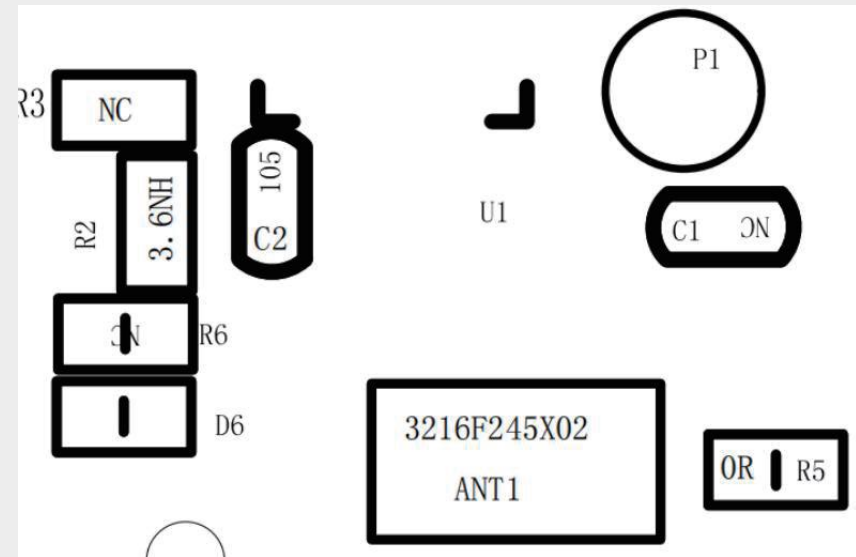
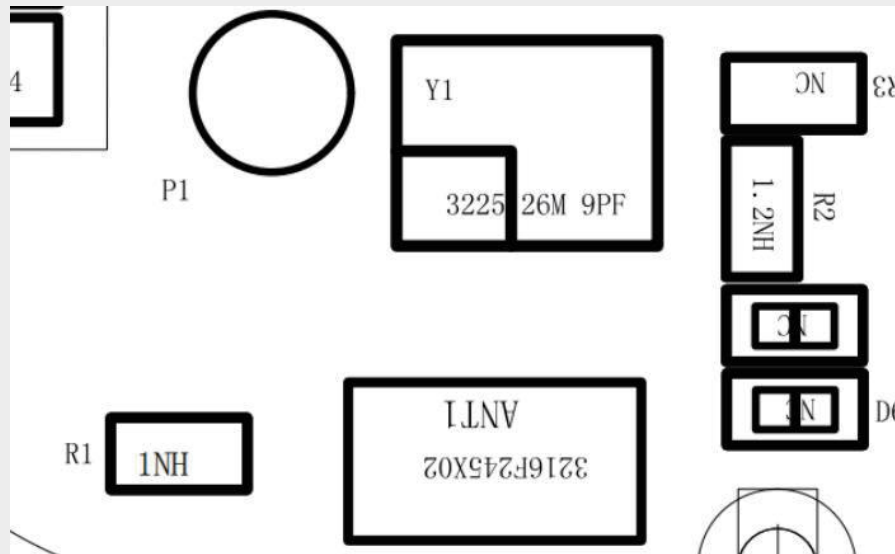
Customer	BSX	Project name	ME298
frequency band	2400MHZ-2500MHZ	engineer:	CK
Date	2024/02/29	phone:	13530576606

1.Test Tool

Vector network Analyzer & Integrated meter	Agilent Technologies E5071B & R&S CMW500
darkroom	Atenlab M3
Test engineer	CK
temperature	25°C
humidness	65% (RH)

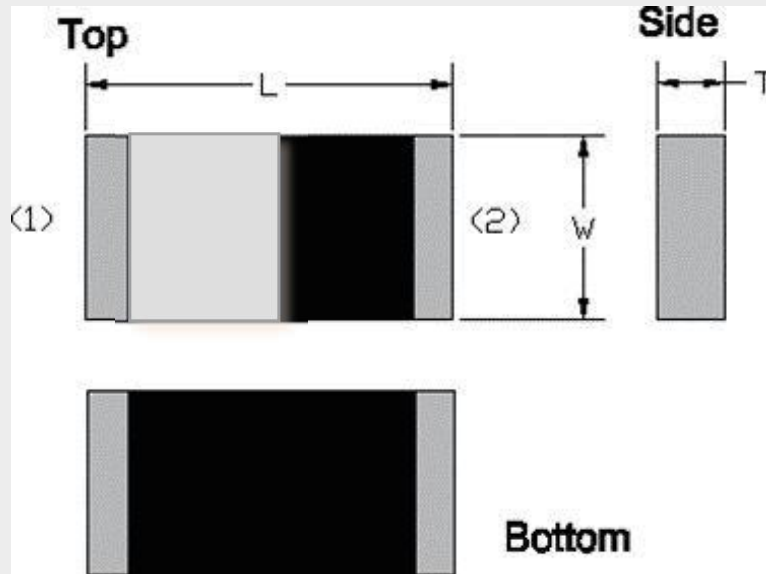


▶ Antenna Placement ANT: 3216F245X02(咏成国际) L/R Matching
Circuit: 左右参数



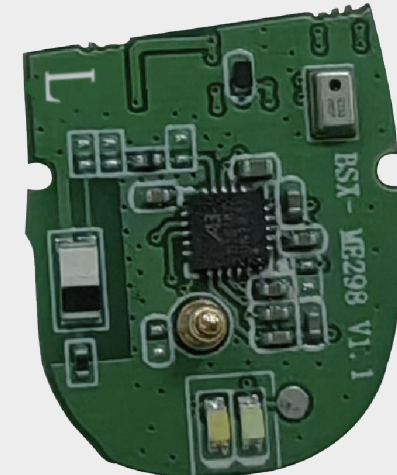
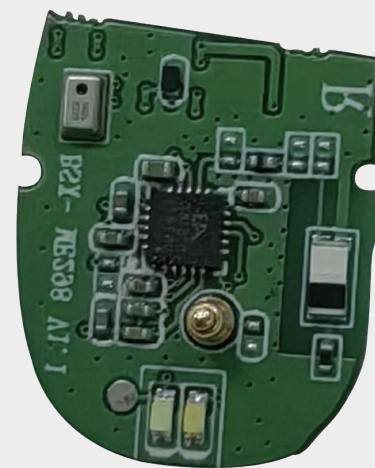


Dimension and Terminal Configuration



Dimension (mm)	
L	3.20 ± 0.20
W	1.60 ± 0.20
T	0.45 ± 0.20

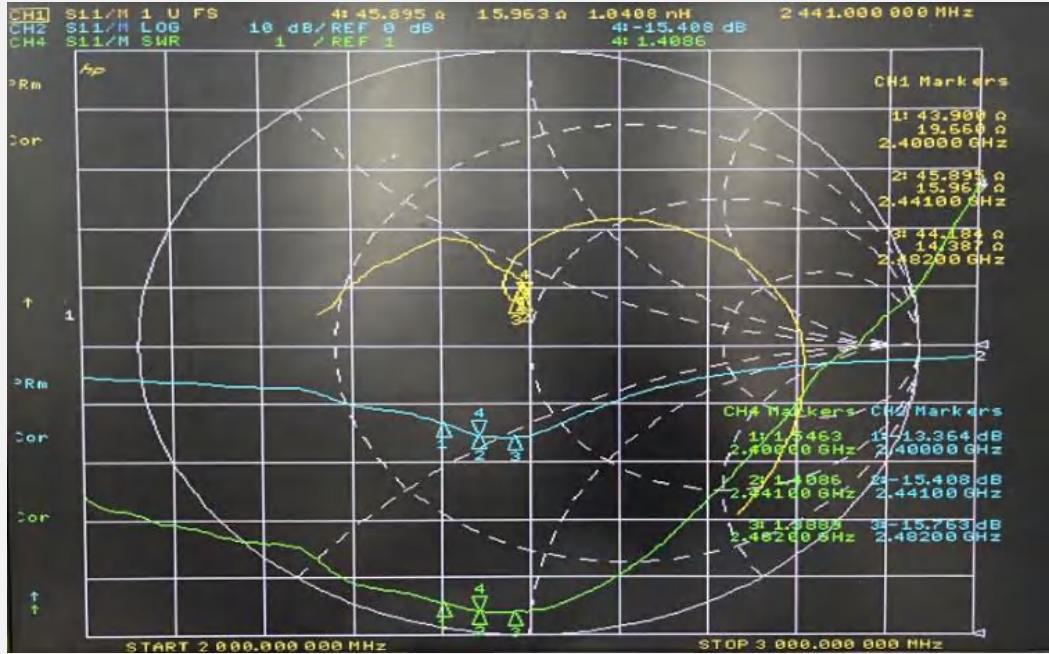
No.	Terminal Name
1	Feeding/GNG
2	GND/Feeding



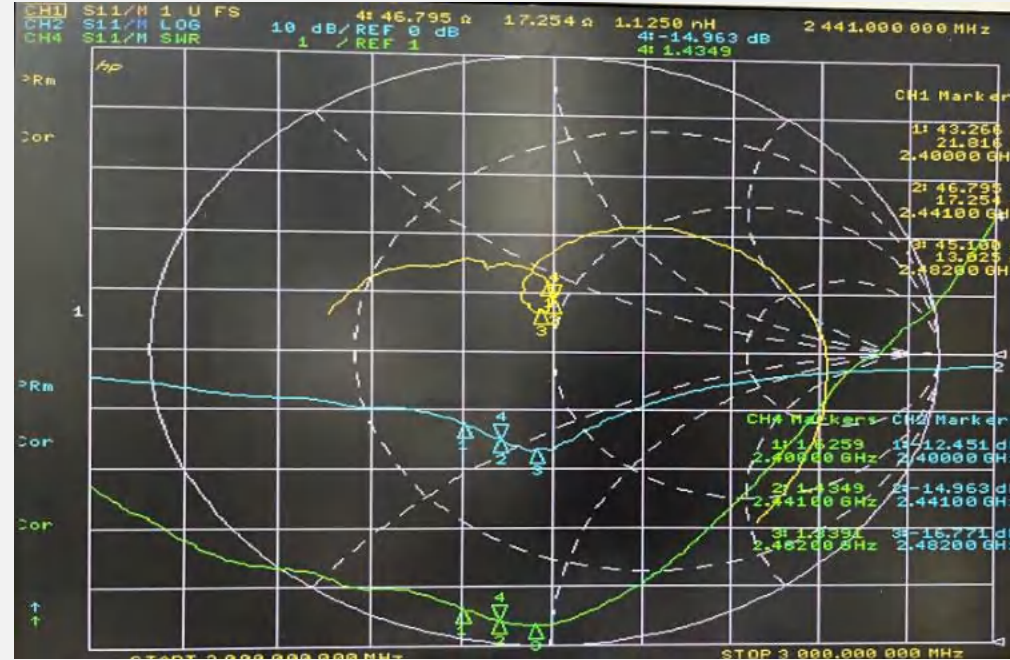


S11、SWR、smith chart:

L



R



Antenna active test data

ANT EIRP&EIS parameter Summary (free field)

频段frequency band	BT 2.4G (L)			BT 2.4G (R)		
信道route	0	39	78	0	39	78
0801# TRP (dBm)	1.76	1.89	1.65	1.86	1.96	1.87
0801# TIS (dBm)	-85.56	-85.69	-85.69	-85.69	-85.96	-85.66

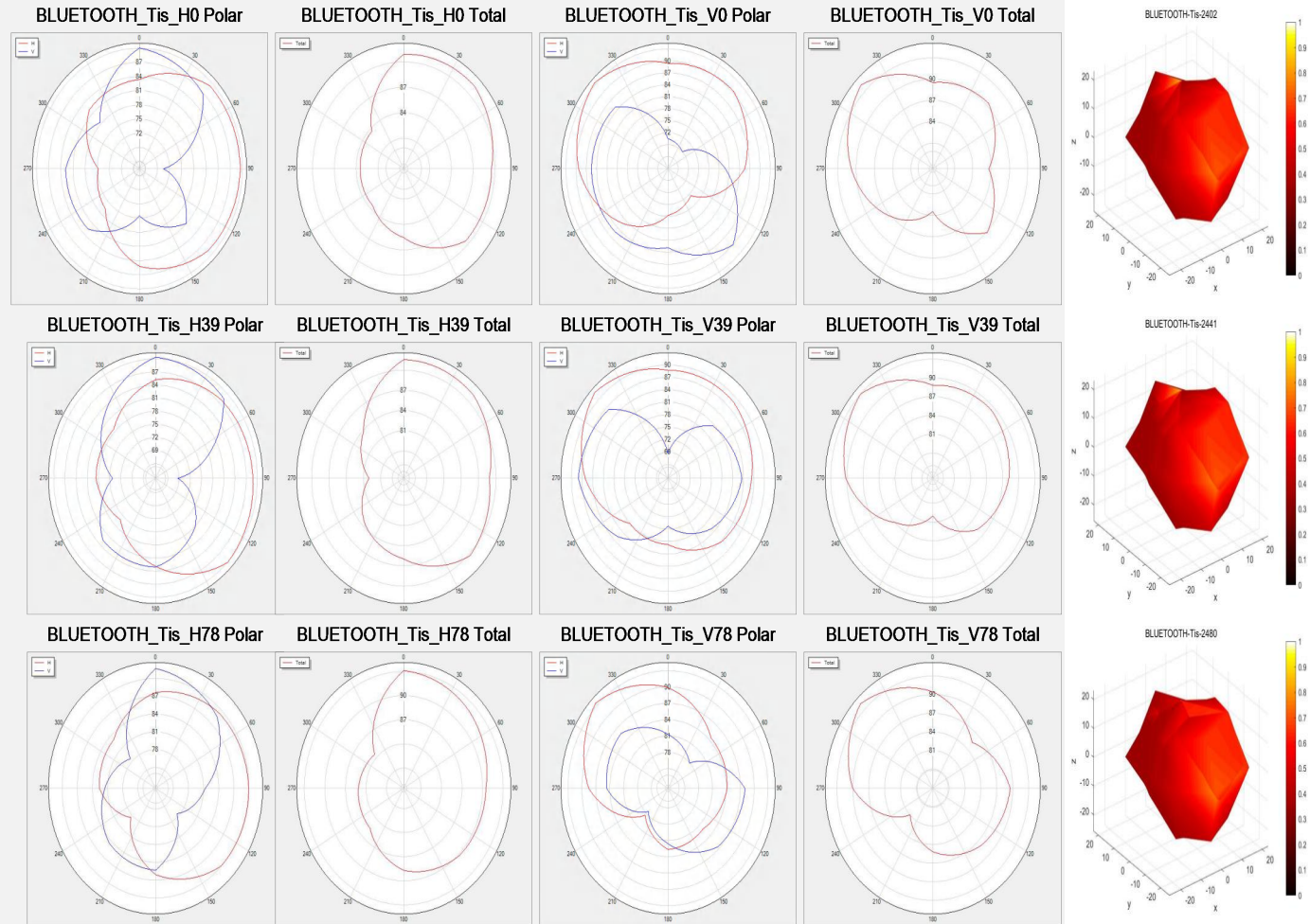
ANT EIRP&EIS parameter Summary (phantom head)

频段frequency band	BT 2.4G (L)			BT 2.4G (R)		
信道route	0	39	78	0	39	78
0801# TRP (dBm)	-0.86	-0.96	-0.49	-0.86	-0.75	-0.78
0801# TIS (dBm)	-81.69	-81.86	-81.96	-81.75	-81.86	-81.86



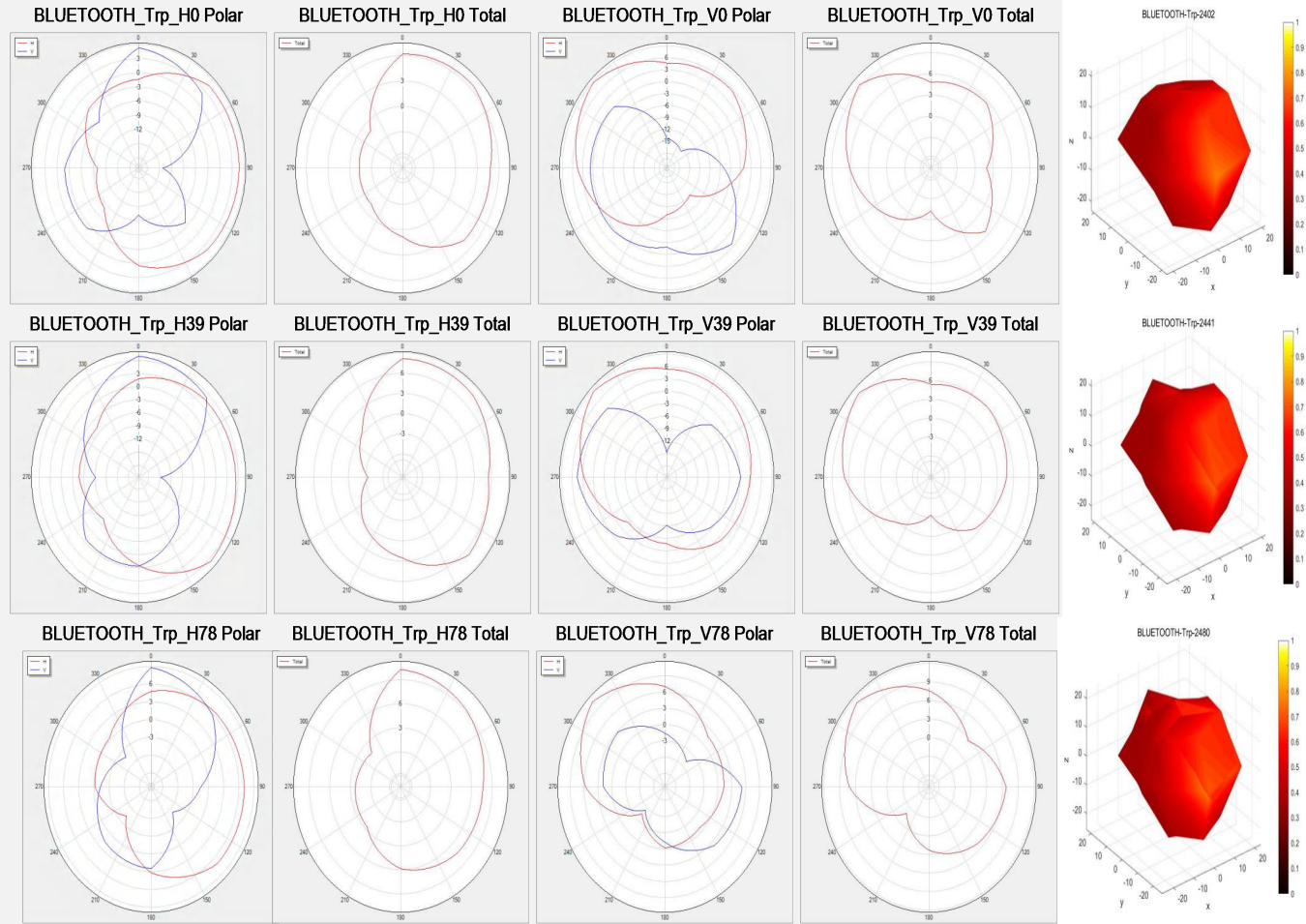
#-L

-L-TIS The antenna pattern of the free field



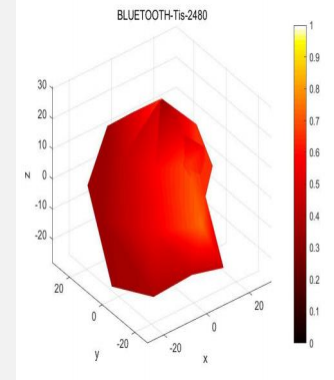
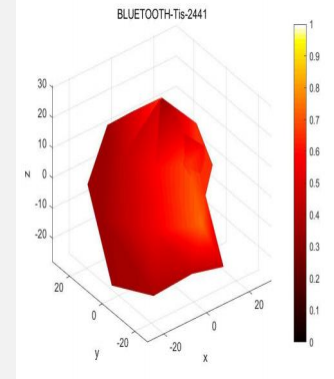
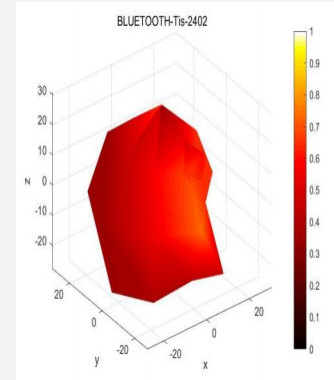
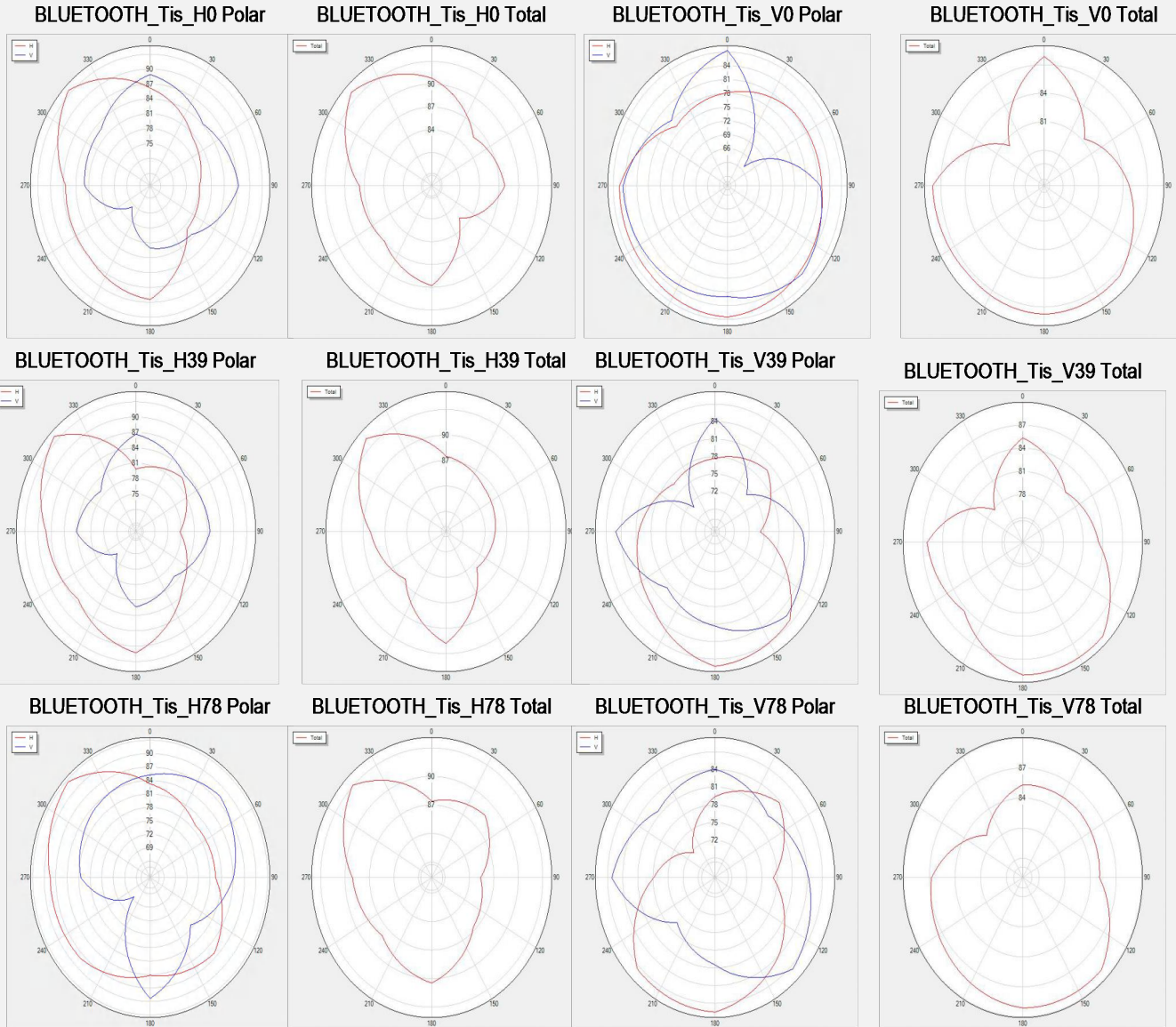


-L-TRP The antenna pattern of the free field



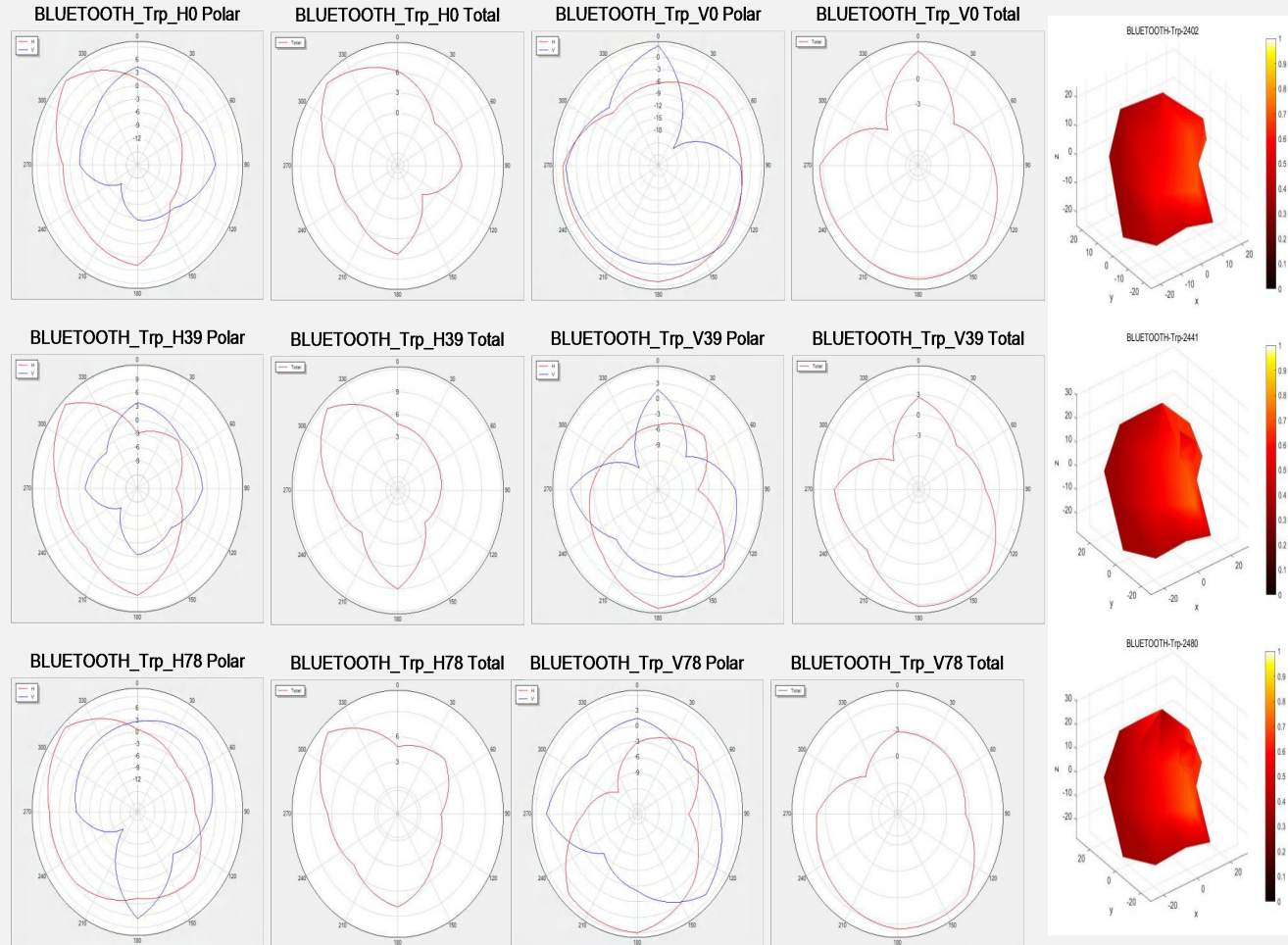


-R-TIS The antenna pattern of the free field





-R-TRP The antenna pattern of the free field





Antenna efficiency gain

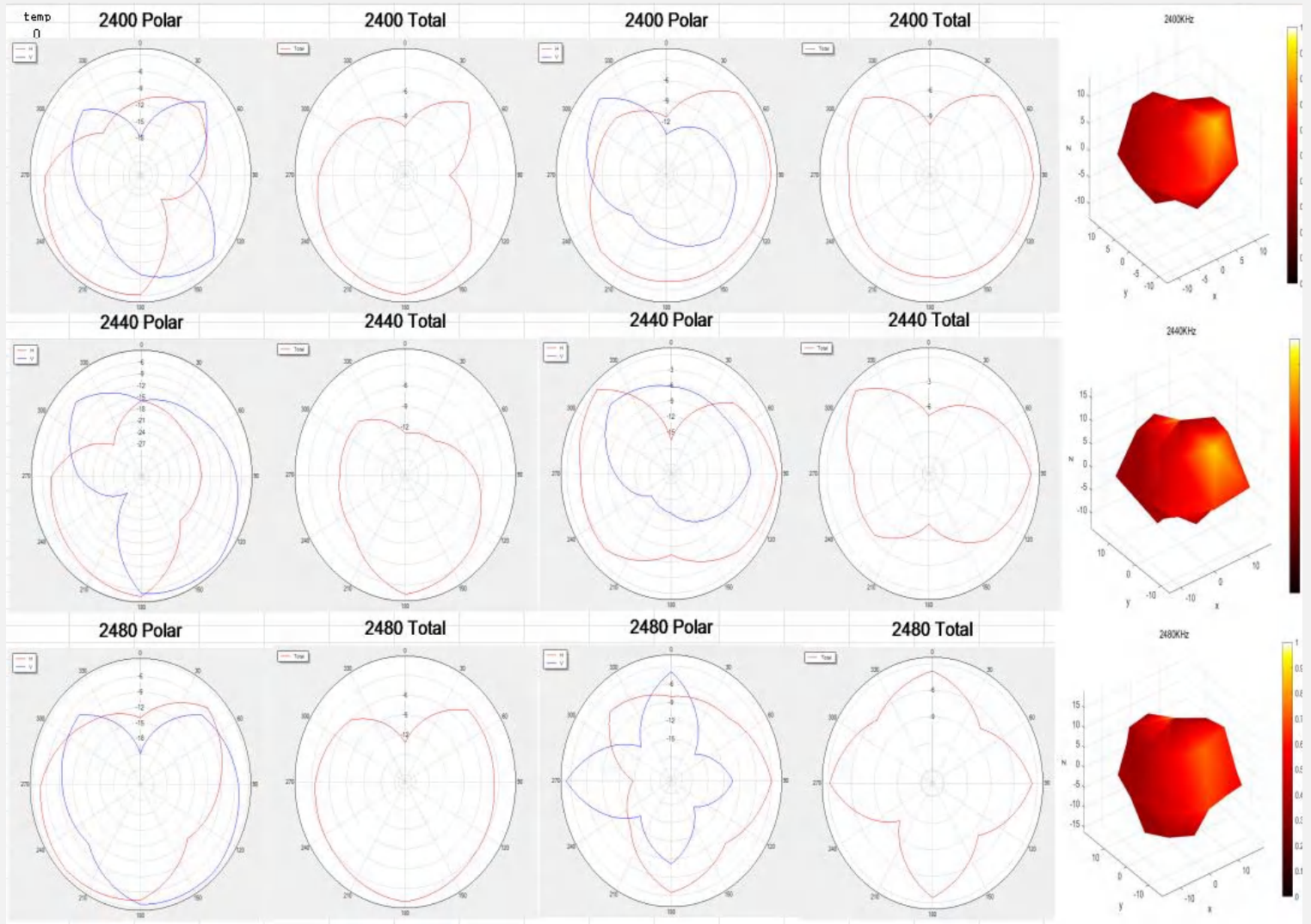
天线效率与增益图



Frequency	Effic	Percen	Gain
2400	-4.2	38.06%	1.38
2440	-4.11	38.77%	2.88
2480	-3.48	44.86%	1.82



Antenna radiation pattern 2400.00MHz/2440.00MHz/2480.00MHz



measuring distance

a. Environme

test project	Trying hard not to hear	Pocket test requirement		descr
ME298		right front	OK	The iPhone5 was tested over 10+ meters in the park
	OK	front-left	OK	
		right rear	OK	
		left rear	OK	

b. summarize

ME298 machine actual test, OTA data test, basically distance matching, our park grass test effect is excellent

assembly method

An aerial photograph of a city skyline, likely New York City, featuring numerous skyscrapers and a prominent building with a pointed top. The image is partially obscured by a large, semi-transparent yellow triangle that points towards the bottom right. The text 'Thank you for watching' is overlaid on the top part of the image in a blue, sans-serif font.

Thank you for watching

Wish you enjoy your life

2023-5-12