



ShenZhen Eastong Electronic technology Co., LTD

APPROVAL SHEET
FOR N02 Pro
(WIFI band internal antenna)

Issued by		Checked by	
Confirmed by		Date	2024-06-28
Customer Confirm			

Project: N02 Pro		Author: Li Kai	File Name: N02 Pro-APP-RA
Date: 2024-06-28			
Rev:	Language:	Check:	
A	ENG		
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Revision History

Date	Revision	Description of Changes
2024-06-28	R:A	Antenna performance approved by customer

1 SUMMARY

2 GENERAL DESCRIPTION

2.1 Definitions

3 MECHANICAL DESCRIPTION

4 ELECTRICAL PERFORMANCE

4.1 Set-up

- 4.1.1 VSWR and return loss
- 4.1.2 Efficiency, Gain and TRP/TIS
- 4.1.3 Matching Circuit Description

4.2 Measurement Data

- 4.2.1 VSWR
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6 CONCLUSION

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1 Summary

This report summarizes the electrical results of the proposed antenna to support the N02 Pro program. We test the antenna with the latest version handset .

2 General Description

2.1 Definitions

VSWR: Voltage Standing Wave Rate

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

4.1.1 VSWR and return loss

VSWR measurements (S_{11}) were performed using an Agilent E5070B Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Efficiency, Gain and TRP/TIS

The gain of the antenna was measured in Dong Xin's 3D anechoic chamber in Shenzhen. The chamber is capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents. The measurement results are calibrated using dipole standards. For TRP and TIS the chamber uses a Agilent 8960 to establish the connection with the mobile device. During TRP tests the 8960 reads the power received through the chamber probes whilst during TIS tests the 8960 transmits through the probe. All data is afterwards corrected by a calibration table.

4.1.3 Matching Circuit Description

No matching.

4.2 Measurement Data

Effective Radiated Power Summation

5 Mechanical drawing

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Address: 409-411, Shanhai E-commerce Port, No.9 Huancheng Road, Yangmei Community, Baotian Street, Longgang District, Shenzhen

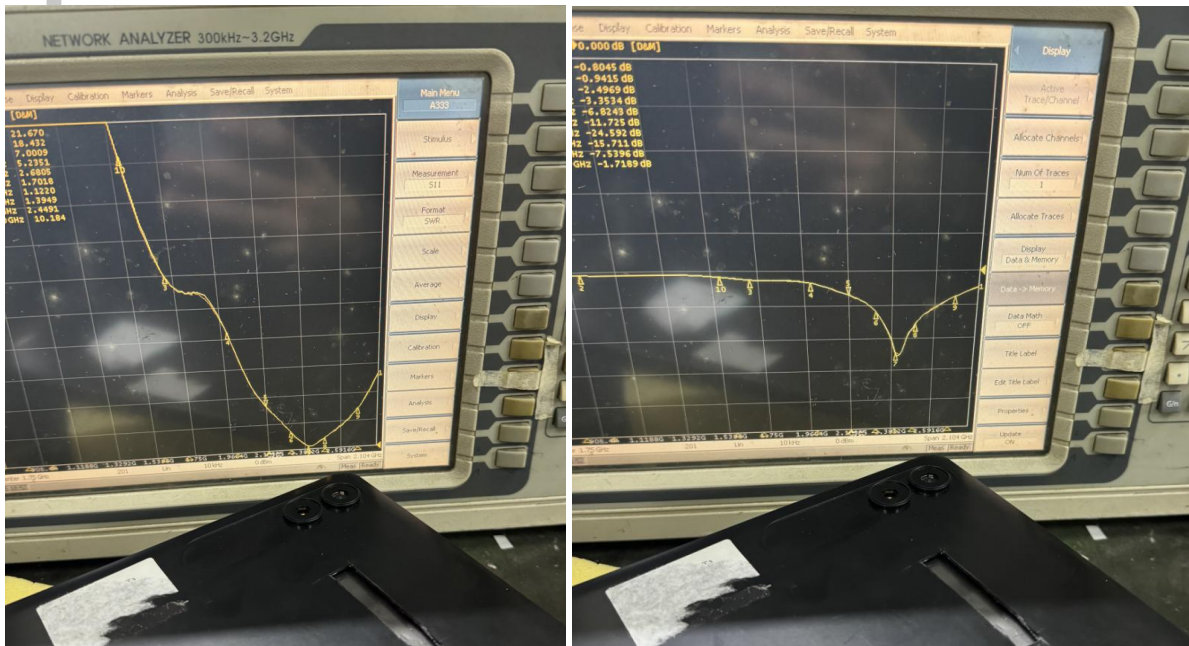
Antenna type: PIFA

Antenna Max. Peak Gain:

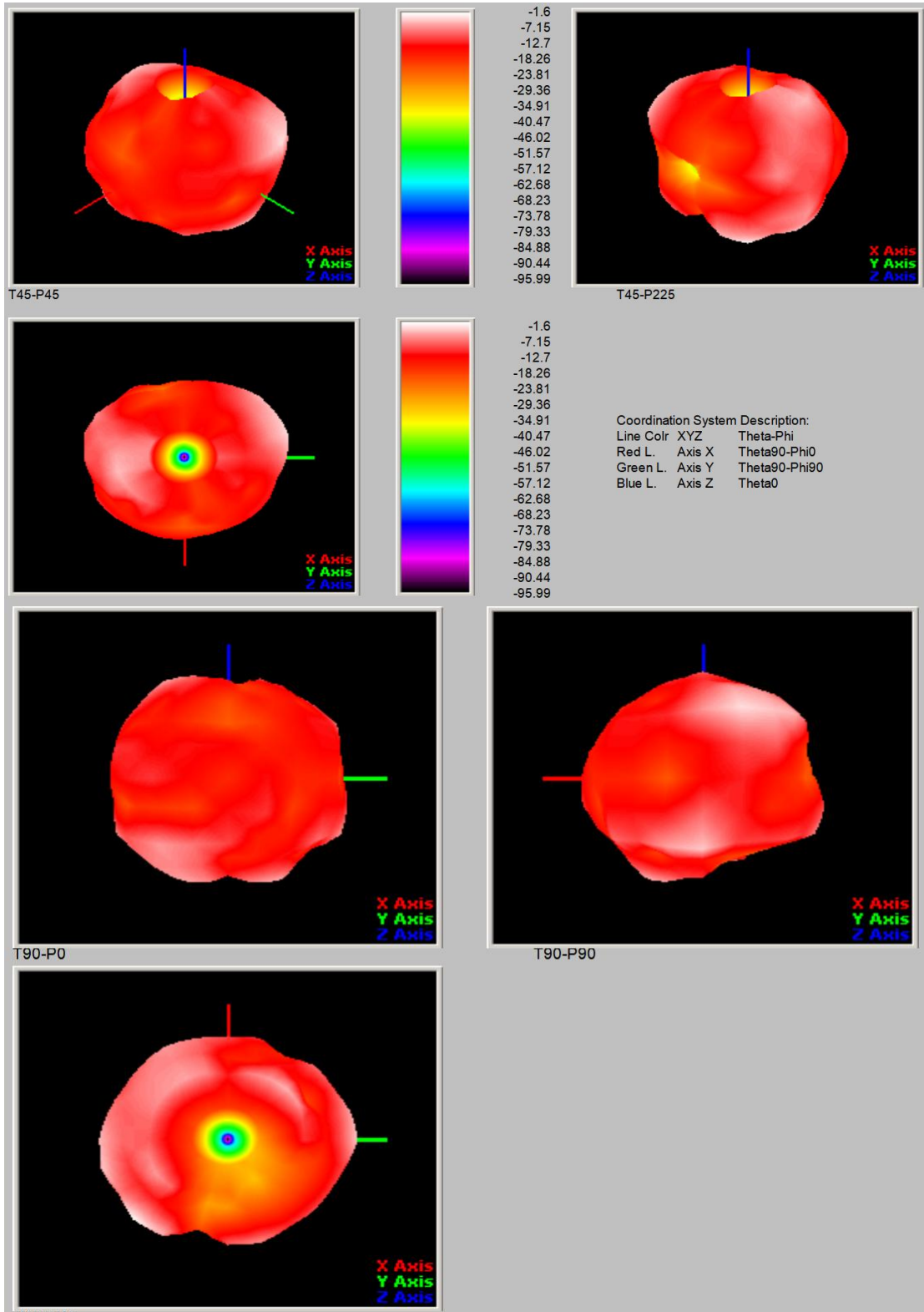
2.4G: 0.53dBi

5G: 0.28dBi

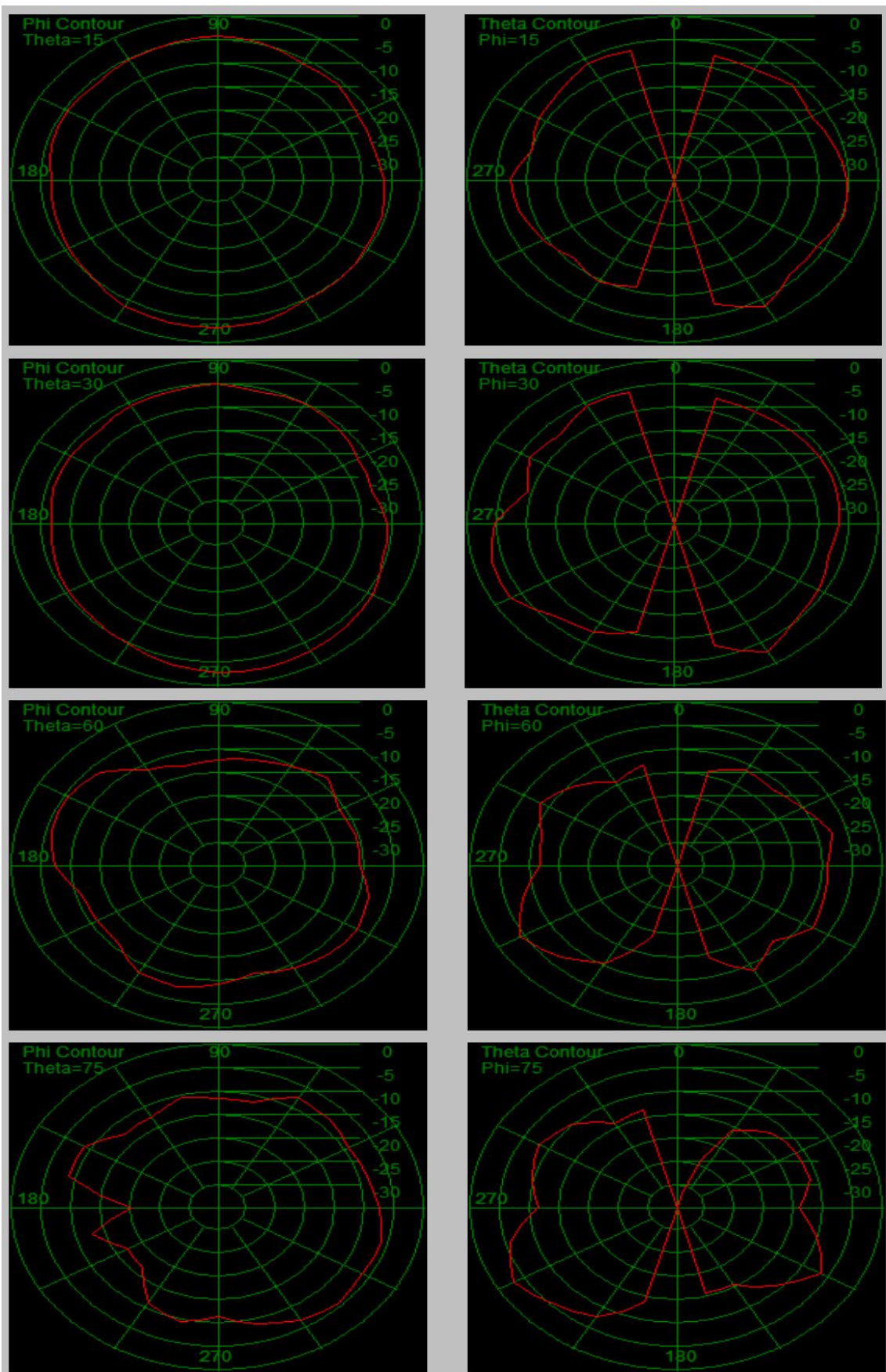
WIFI	2.4G			5.8G		
Let	1	6	12	36	60	161
TRP	15.7	15.4	15.8	13.6	13.2	12.4
TIS	-84.6	-84.4	-84.2	-72.6	-72.5	-72.2



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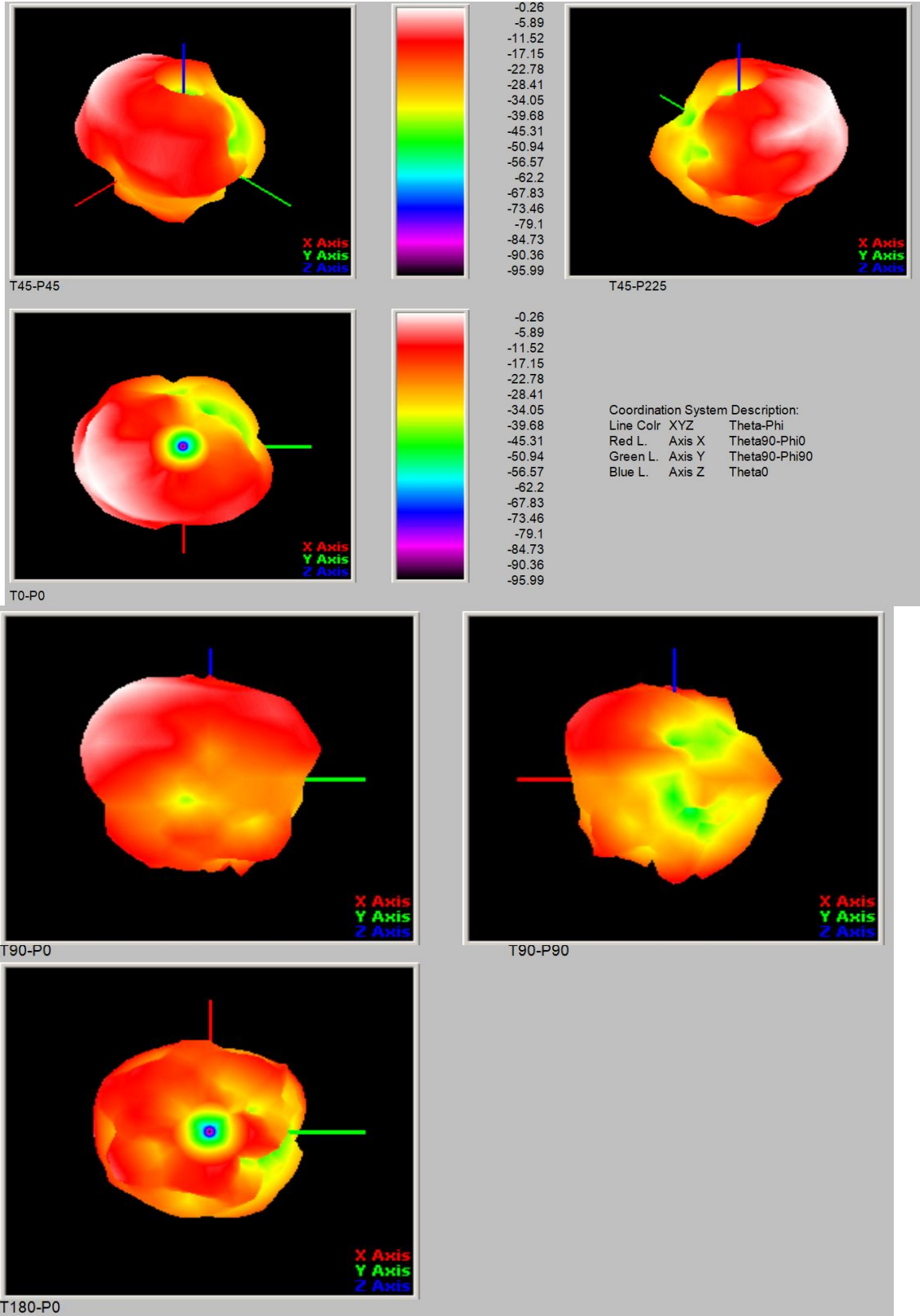


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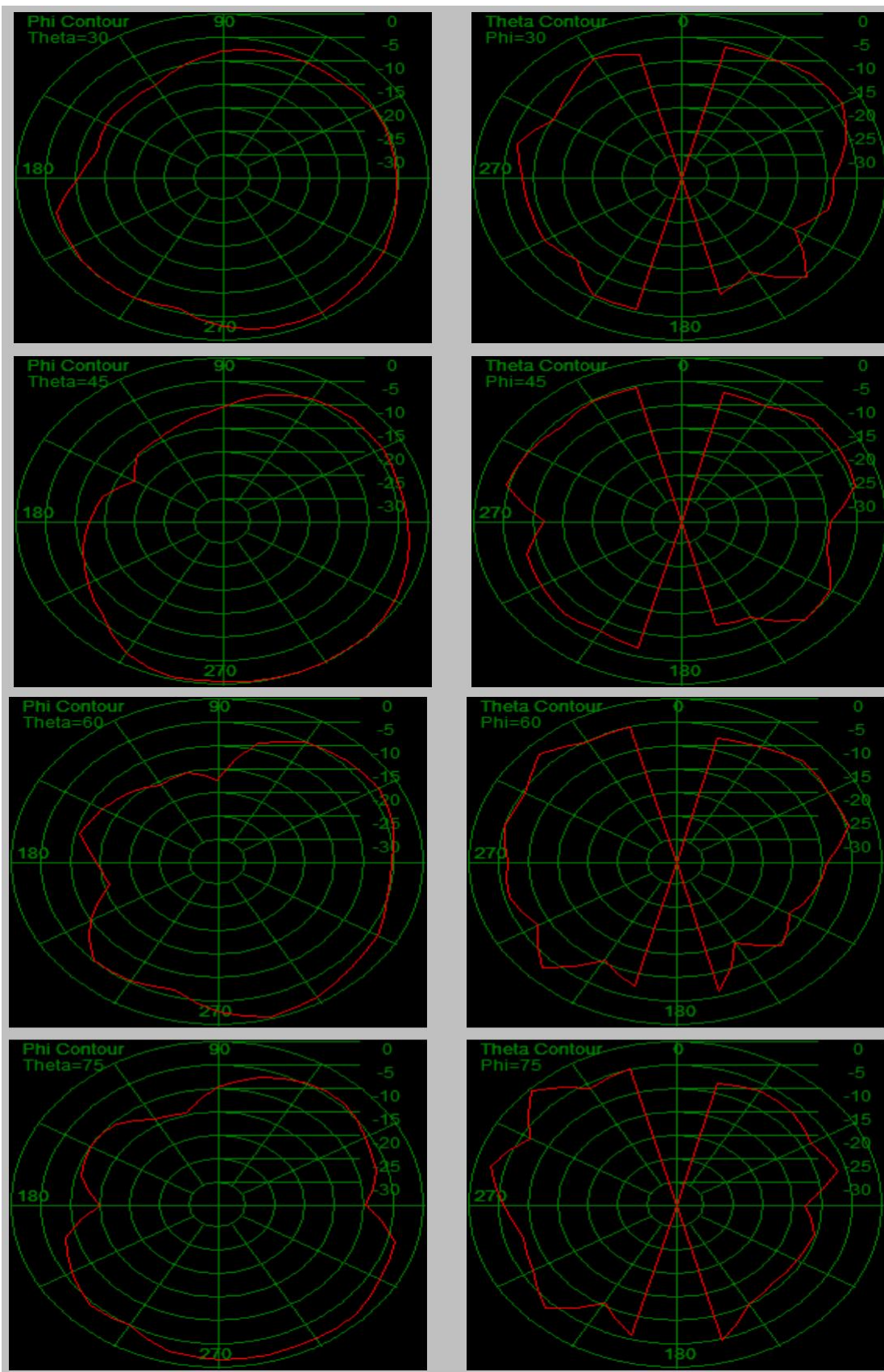
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5745MHZ~5825MHZ (WIFI 5.8G)

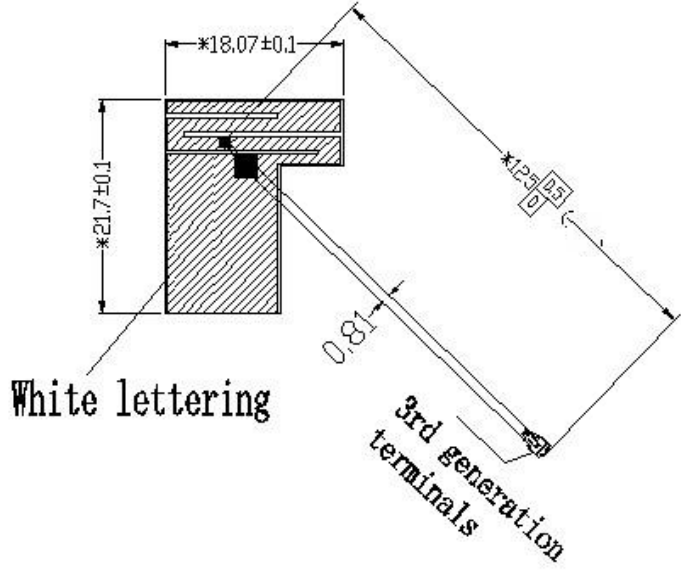


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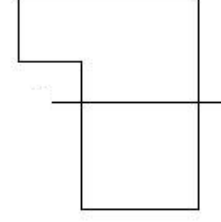
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$*0.25 \pm 0.05$ (aggregate thickness)
 $*0.11 \pm 0.01$ (Gum backing)



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Trigonometry		Model	DXT-WIFI-V1.0	date	2024-03-06				
10~	± 0.05	\odot	0.02	Name	PC				
10~20	± 0.10	\perp	0.02	texture of material	PI(Polyimide) one-half				
20~40	± 0.15	∇	0.04						
40~	± 0.15	∇	0.02						
Do Not Measure Drawings				Appearance treatment	black	Company		FIT	T:A

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