



# SAMPLE FOR APPROVAL

CUSTOMER: Ruijie Networks Co., Ltd.

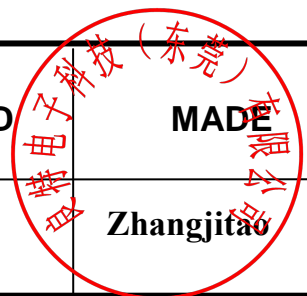
PART NUMBER: \_\_\_\_\_ CUS REV: 01\_\_\_\_\_

DESCRIPTION: EXD-515815-30-VH-2MHF-V2

SUBMITTED DATES: 2021.08.09 EXC REV: 01

ENCLOSED:  DRAWING  INSPECTION REPORT  
 SPECIFICATION SHEET

<b>CUSTOMER</b>	<b>QA</b>	<b>APPROVED</b>	<b>MADE</b>
	Wu Chun	Song.liu	Zhangjitao





# Contents

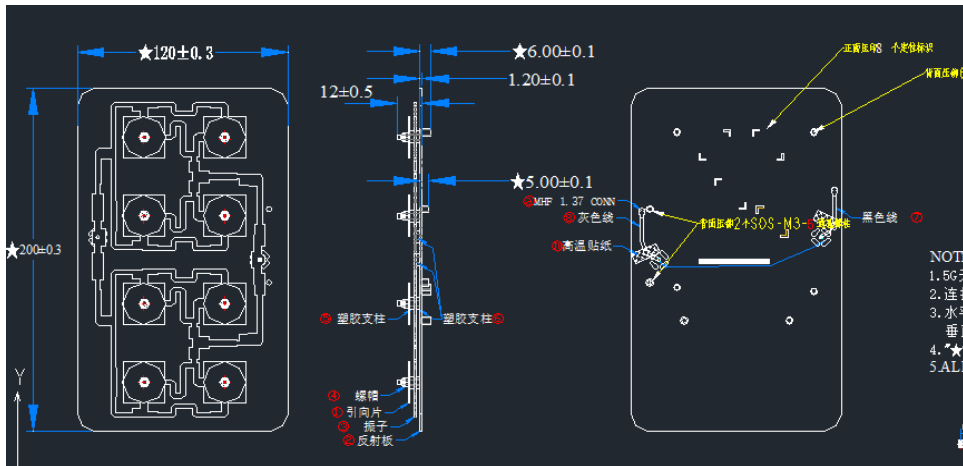
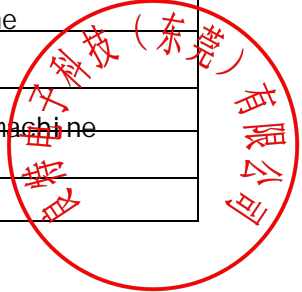
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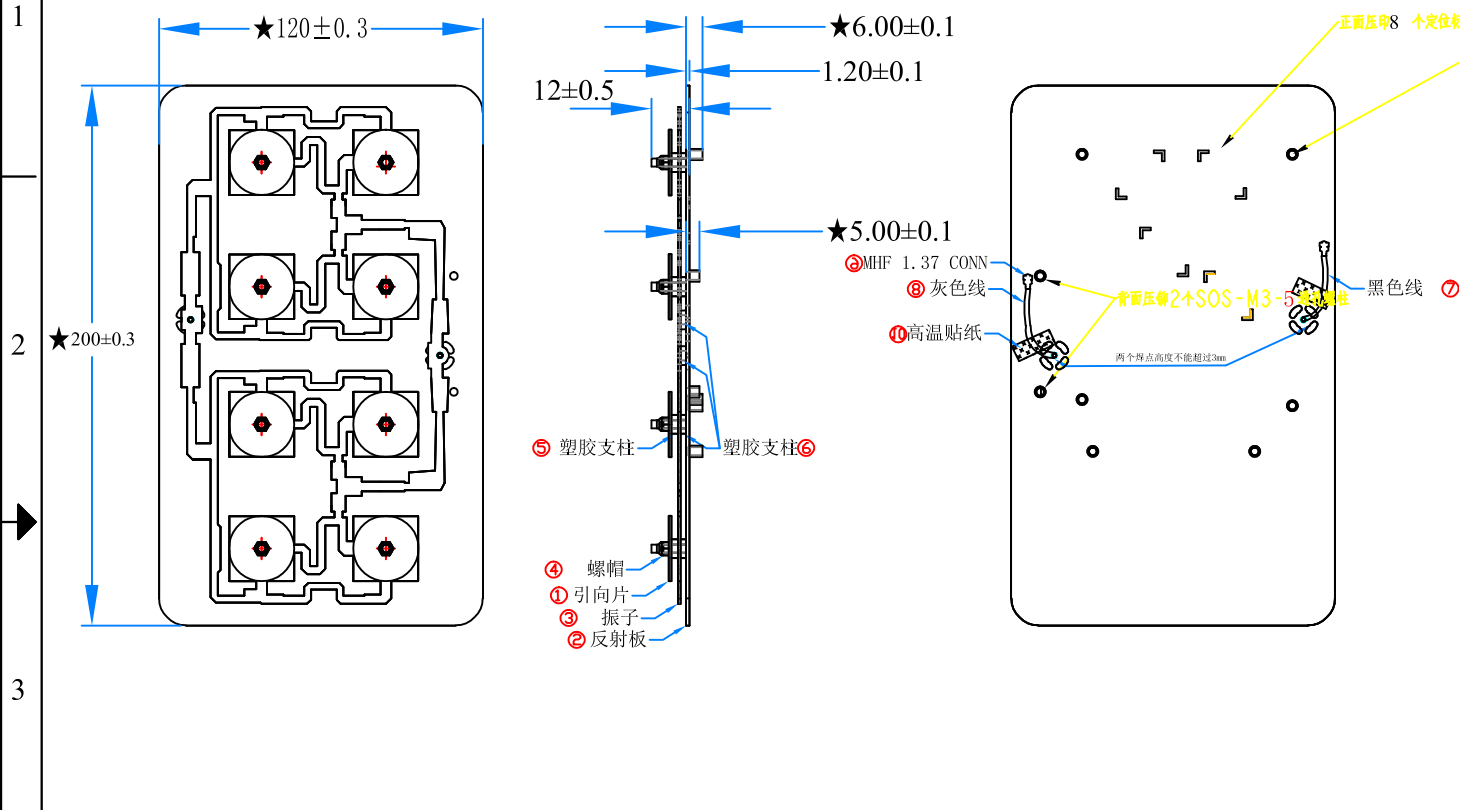
# EST350 V2 Directional CPE antenna indicator

Electrical specifications	
Antenna	5G directive antenna
Frequency range(MHz)	5150-5850
VSWR	≤2.0
Impedance(ohm)	50 Ω
Gain(dBi)	15dbi
Polarization	vertical      Horizontal
H plan beam width	31°      28° V
plan beam width	14°      13°
Isolation(DB)	>20 dB
Max input power(W)	10 W
Lightning protection	DC ground
Mechanical specifications	
Dimensions(mm)	200mm (L) × 120mm (W)
Connector	IPEX
Cable	1.13 coaxial line
Connector position	bottom
Radome material	Matching machine
Operating temperature(°C)	-40~+55°C
RoHS	Accord with RoHS

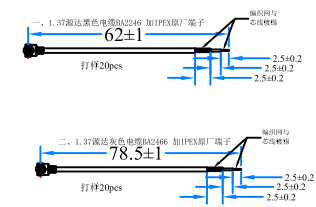


REV	DESCRIPTION	DATE
01	DRAWING RECEIVED	2021.08.09

五金冲压模具编号:  
TL



NOTES:  
 1. 5G天线(整机): VSWR: ≤2.0@5150-5850MHZ;  
 2. 连接器: MHF;  
 3. 水平极化端口配1.37灰色电缆;  
 垂直极化端口配1.37黑色电缆;  
 4. \*★为重点尺寸;  
 5. ALL MATERIALS MUST BE RoHS compliant.



No.	ITEM	DESCRIPTION	QTY
10	高温贴纸	尺寸: 20x10mm, 单面耐高温贴纸	2PC
9	MHF 1.37 CONN	MHF SERIES MICRO COAXIAL CONN PLUG,配 1.37电缆.	2PC
8	灰色线	OD1.37mm,32AWG(7/0.08mmTC)+ BRAID(16*4/0.05mmTC),Blue FEP JACKET .	78.5mm
7	黑色线	OD1.37mm,32AWG(7/0.08mmTC)+ BRAID(16*4/0.05mmTC),Black FEP JACKET .	62mm
6	塑胶支柱	材质: PA66, Φ7*H2.0 Φ3.2;符合ROHS	8PC
5	塑胶支柱	材质: PA66, Φ7*H2.5 Φ3.2;符合ROHS	8PC
4	螺帽	规格: M3, 自锁螺帽	8PC
3	振子	材质: 1060铝板;尺寸: 184*99.32*1.0, 镀涂: 本色, 焊点处铆接两个铜鸡眼, 符合ROHS.	1PC
2	反射板	材质: 1060铝板;尺寸: 200*120MM, 镀涂: 本色, 焊点处铆接两个铜鸡眼, 符合ROHS.	1PC
1	引向片	材质: 1060铝片Φ24.2*1.0mm, 镀涂: 本色	8PC

THIRD ANGLE PROJECTION 	DRAWING APPROVAL	
	DWN:	
TOLERANCES UNLESS OTHERWISE SPECIFIED	CHK:	
	APPD:	
ONE PLACE DECIMAL .X ±0.30	SIZE: A4	UNIT: mm
TWO PLACE DECIMAL .XX ±0.15	TITLE: EST350 V2 成品图	
THREE PLACE DECIMAL .XXX N/A	EXD-515815-30-VH-2MHF-V2	
HOLE DIA. VARIATION .XX N/A	SCALE: - : -	SHEET: 1 OF 1
ANGULAR DIMENSION (ENG) N/A		CUS REV: N/A
		EXC REV: 01

锐捷网络

CUS: 锐捷网络

CUS PN:

CUS PN:

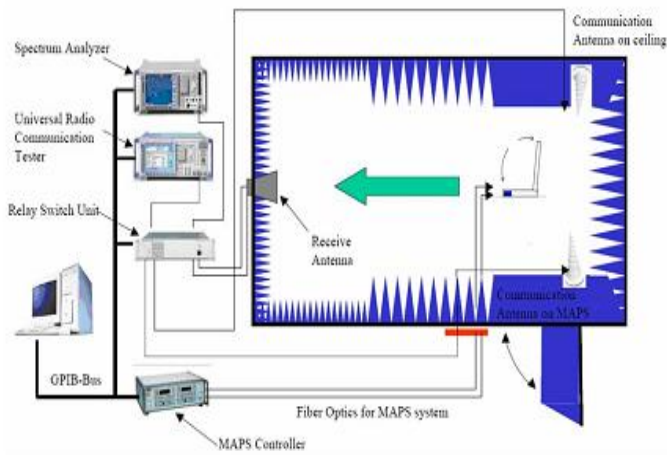




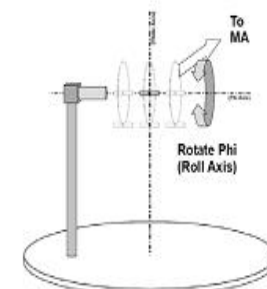
# EST350 Antenna test report

## Test Equipment & Conditions

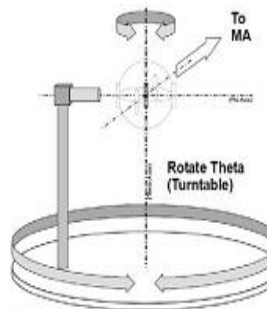
- 1. Network Analyzers : Agilent 5071C
- 2. Communications Test Set: Agilent E5515C CMW500
- 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test



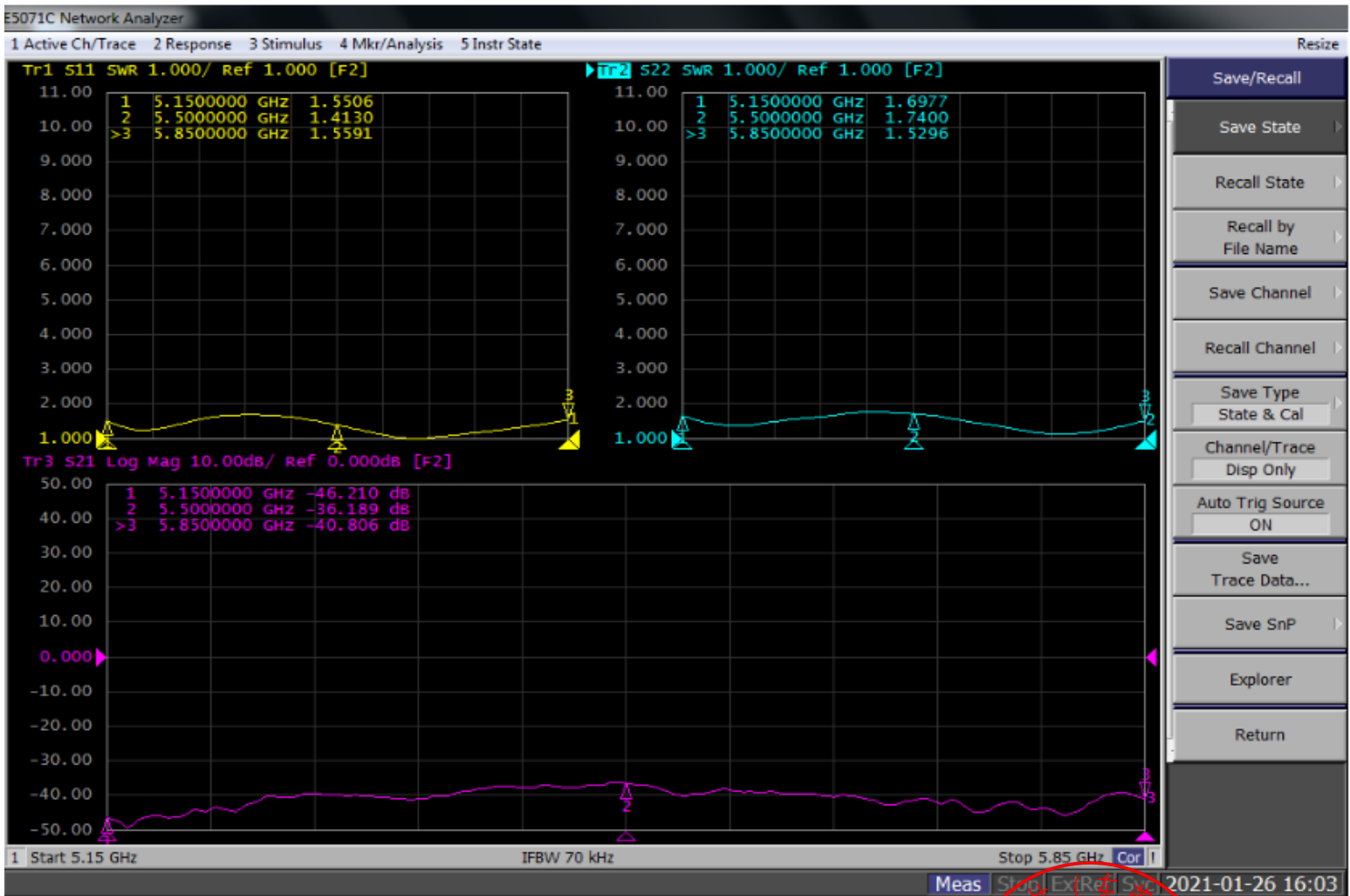
Theta axis test





( EXD-515815-30-VH-2MHF! J& )

1、 VSWR

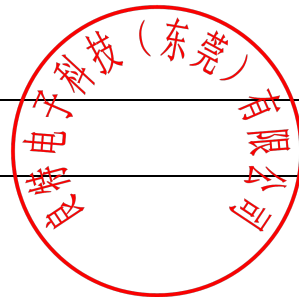
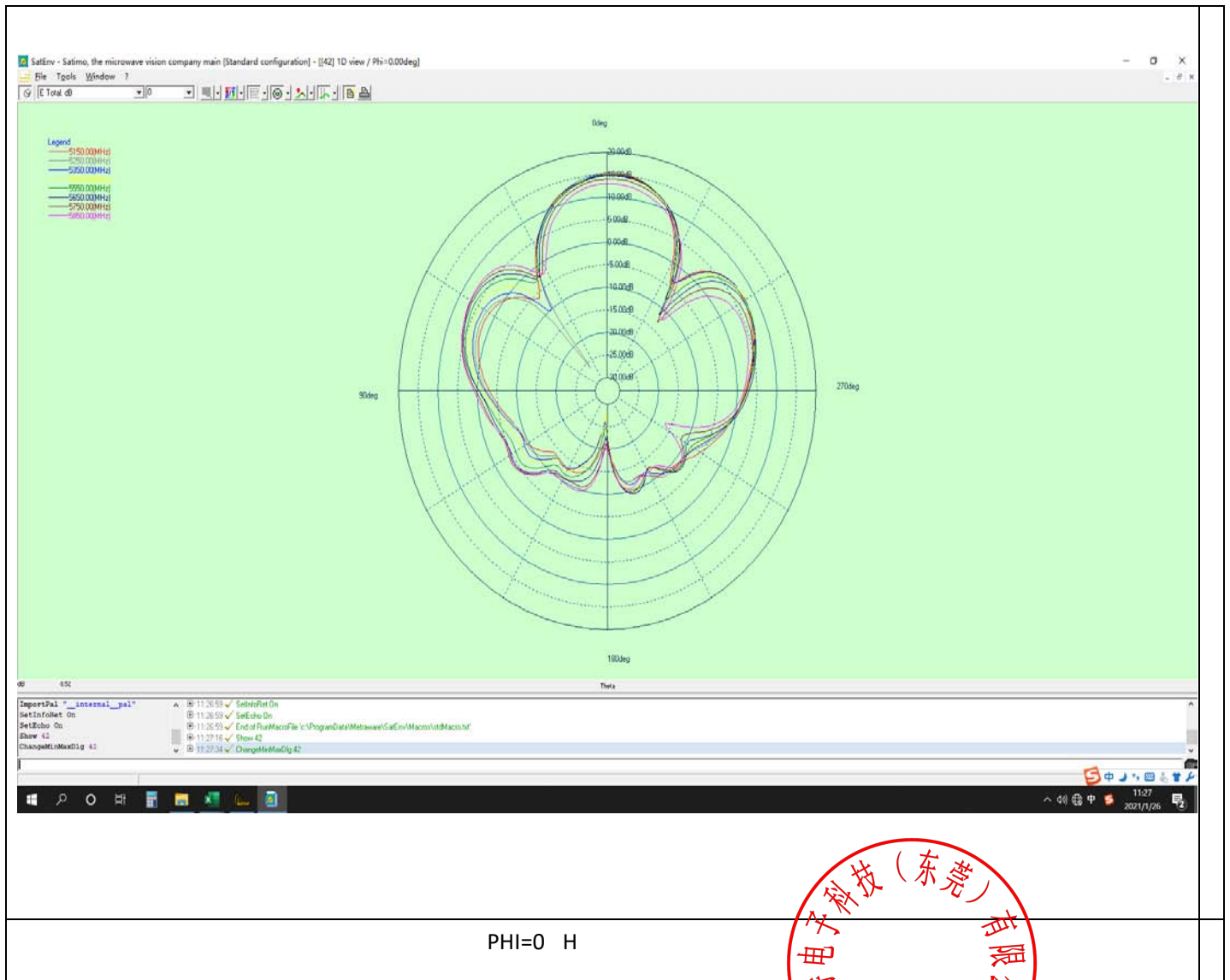


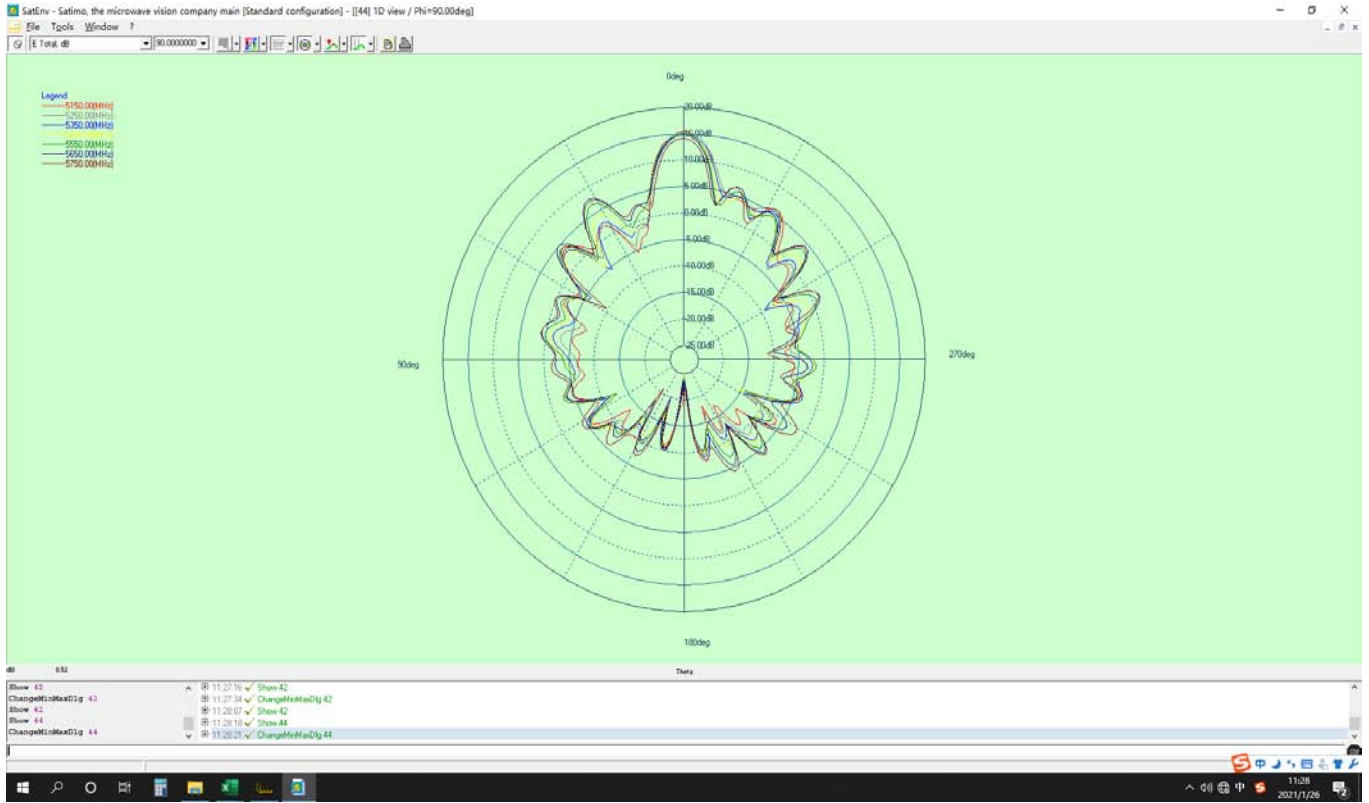
VSWR<2.0@5150~5850MHZ



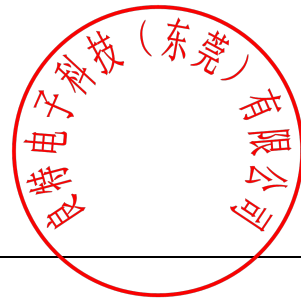


## 2、2D direction diagram

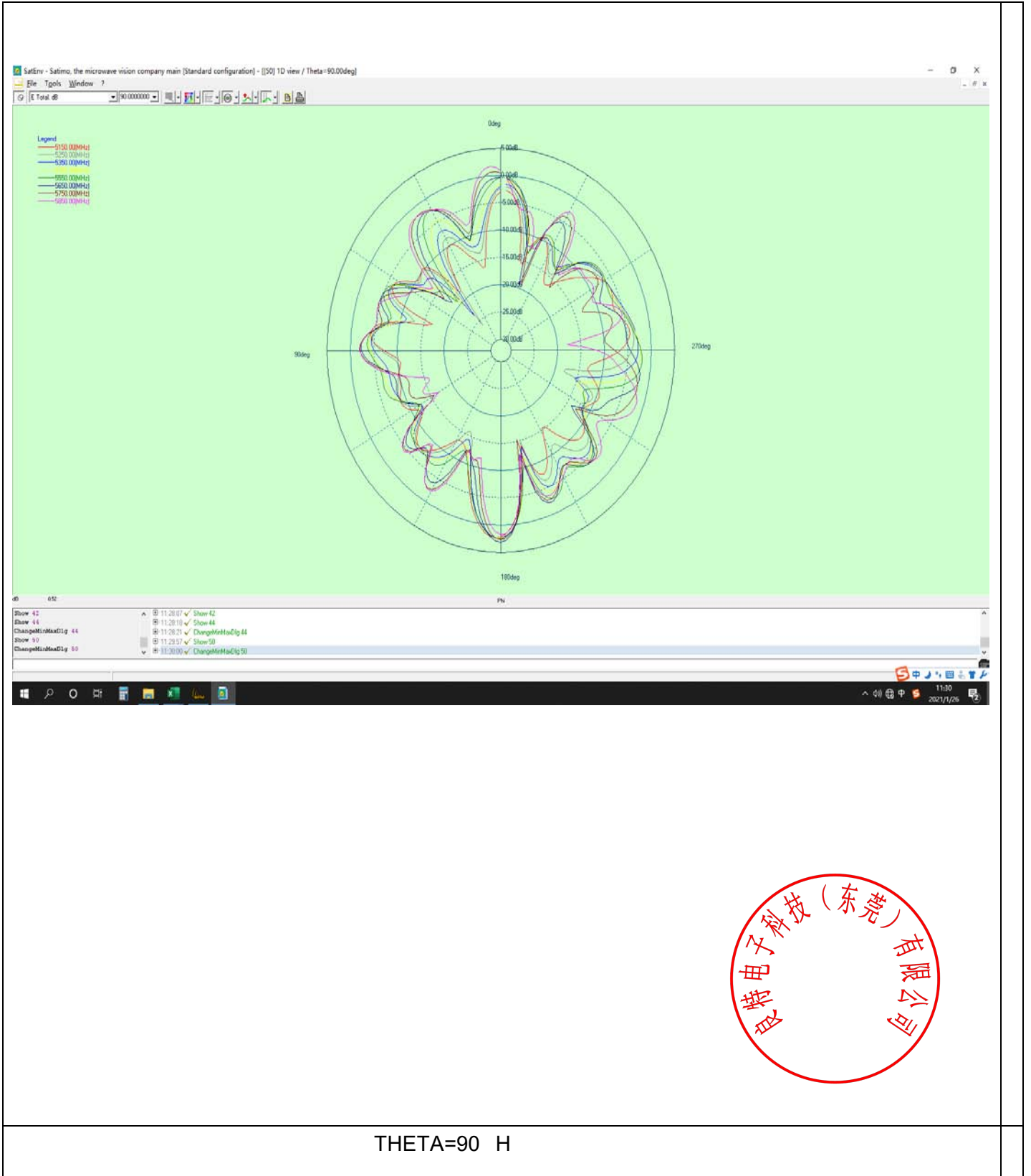




PHI=90 E

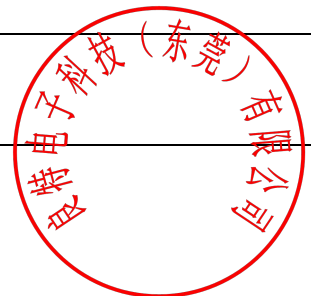
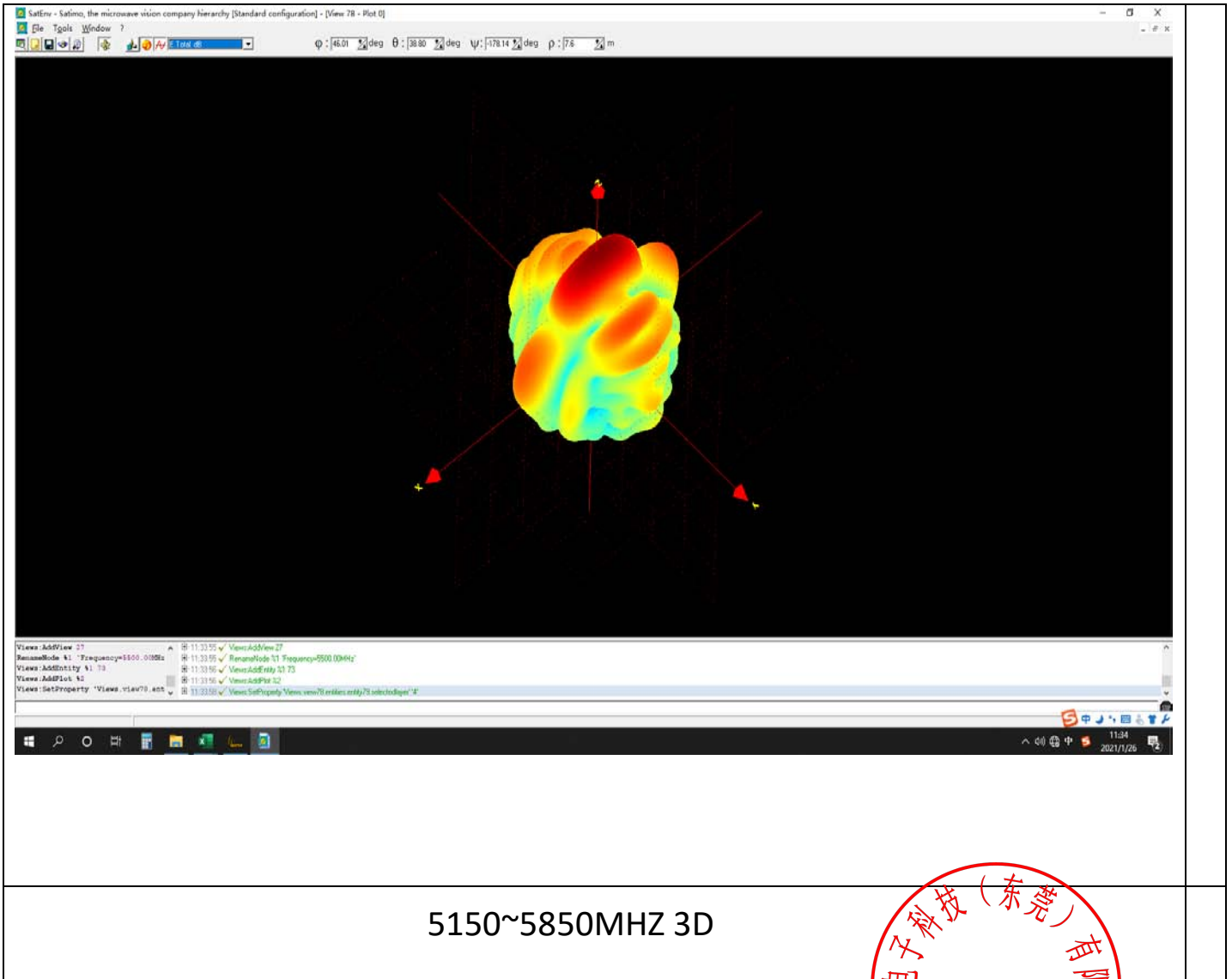


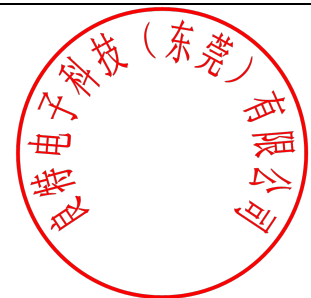
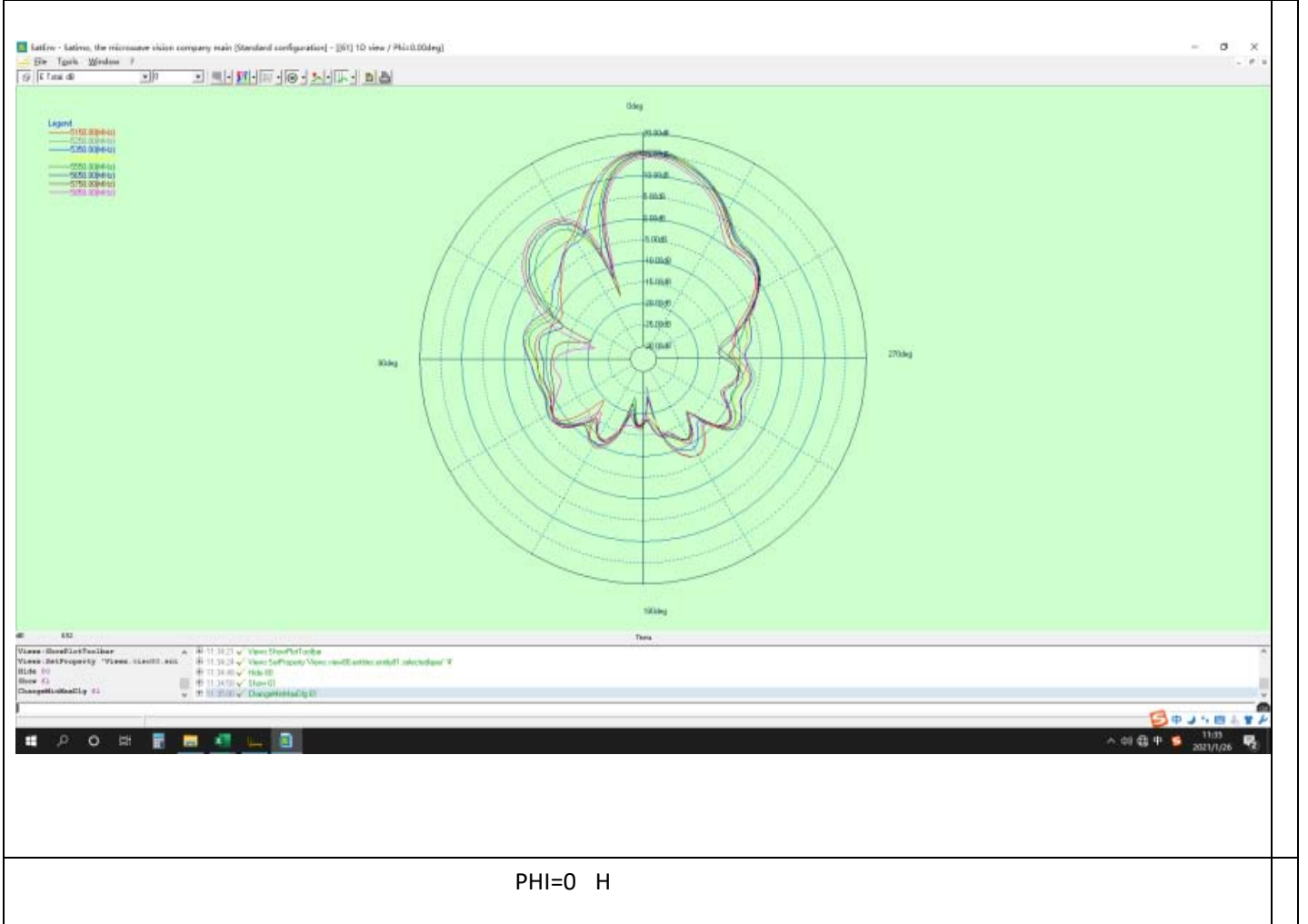


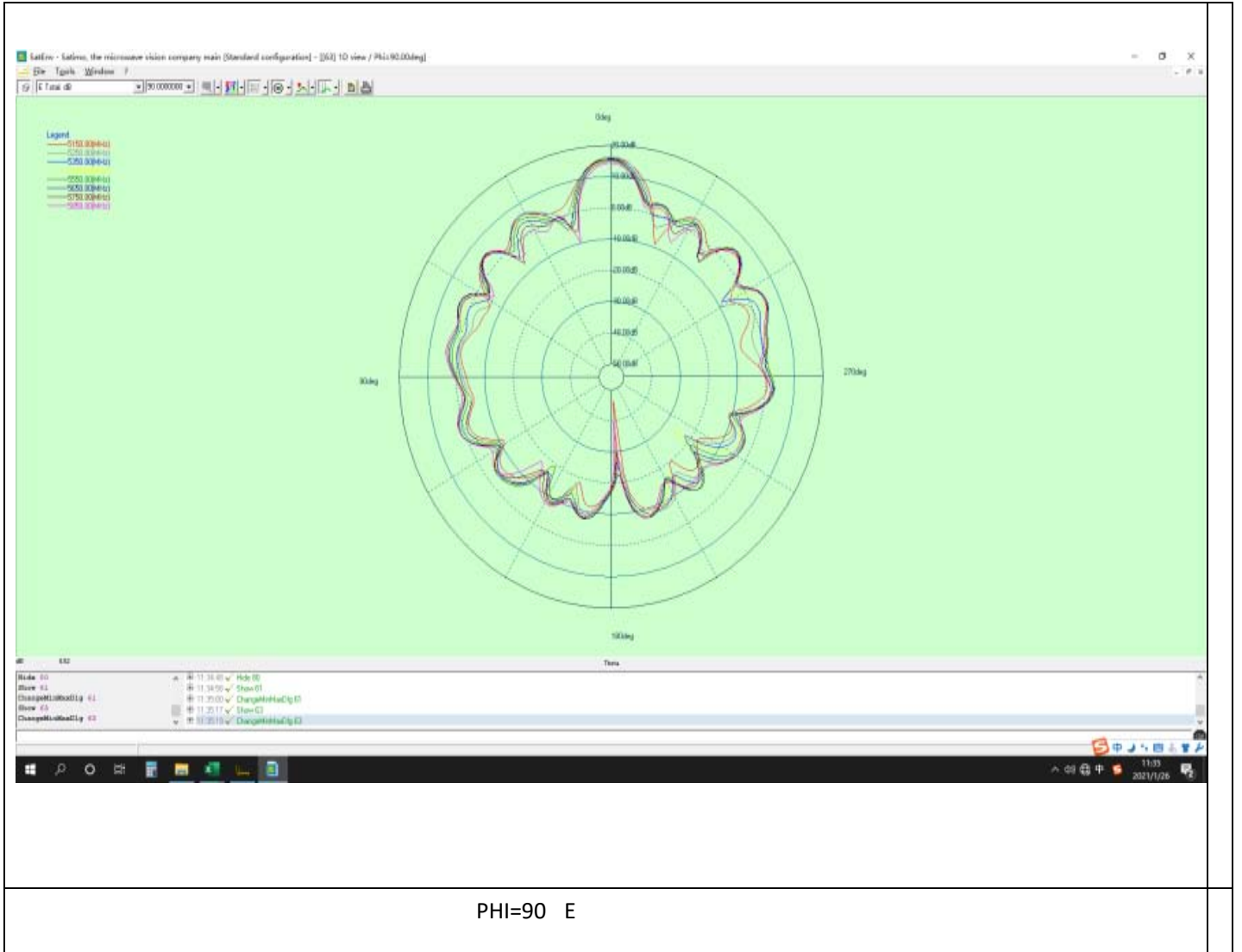


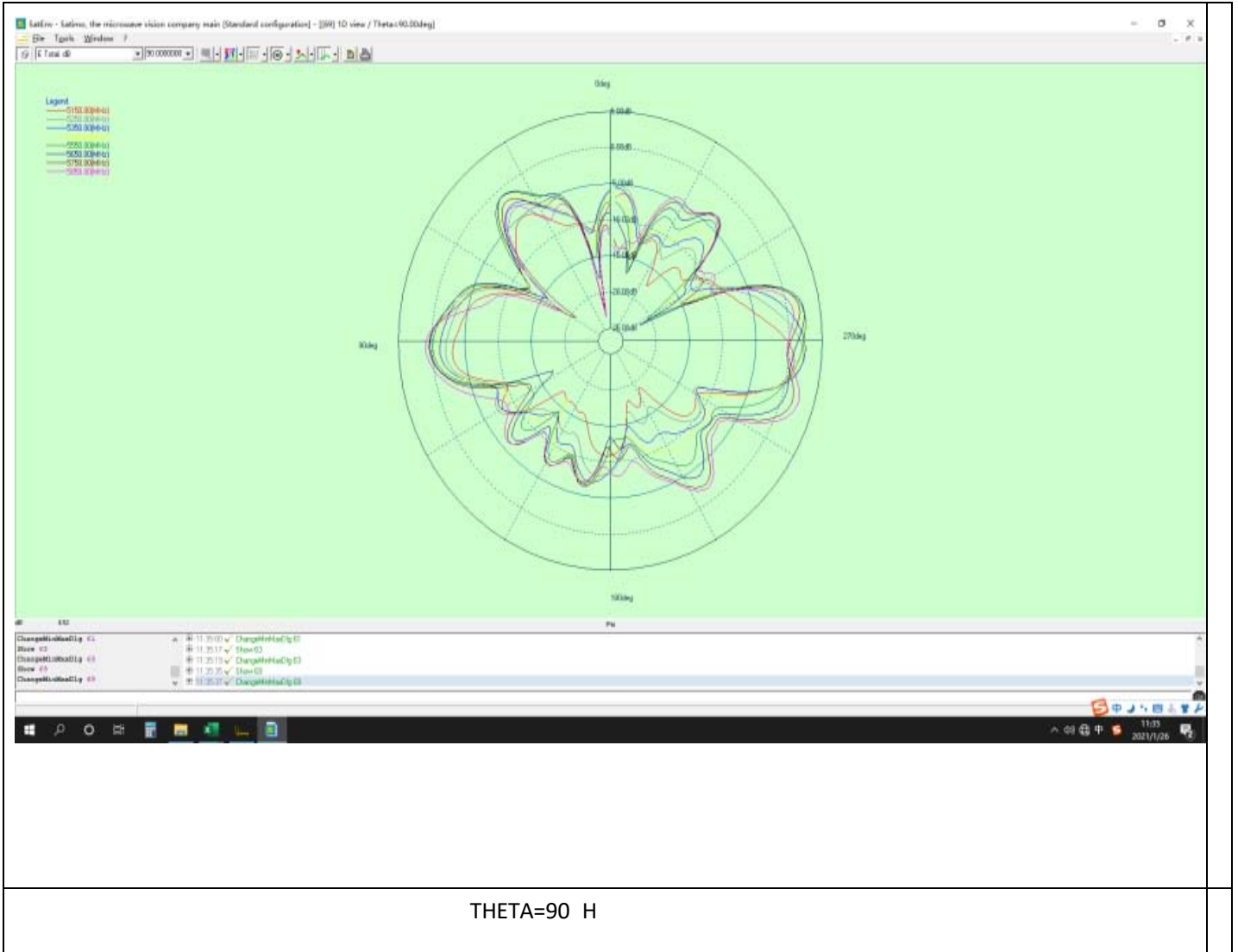


### 3、3D directional diagram



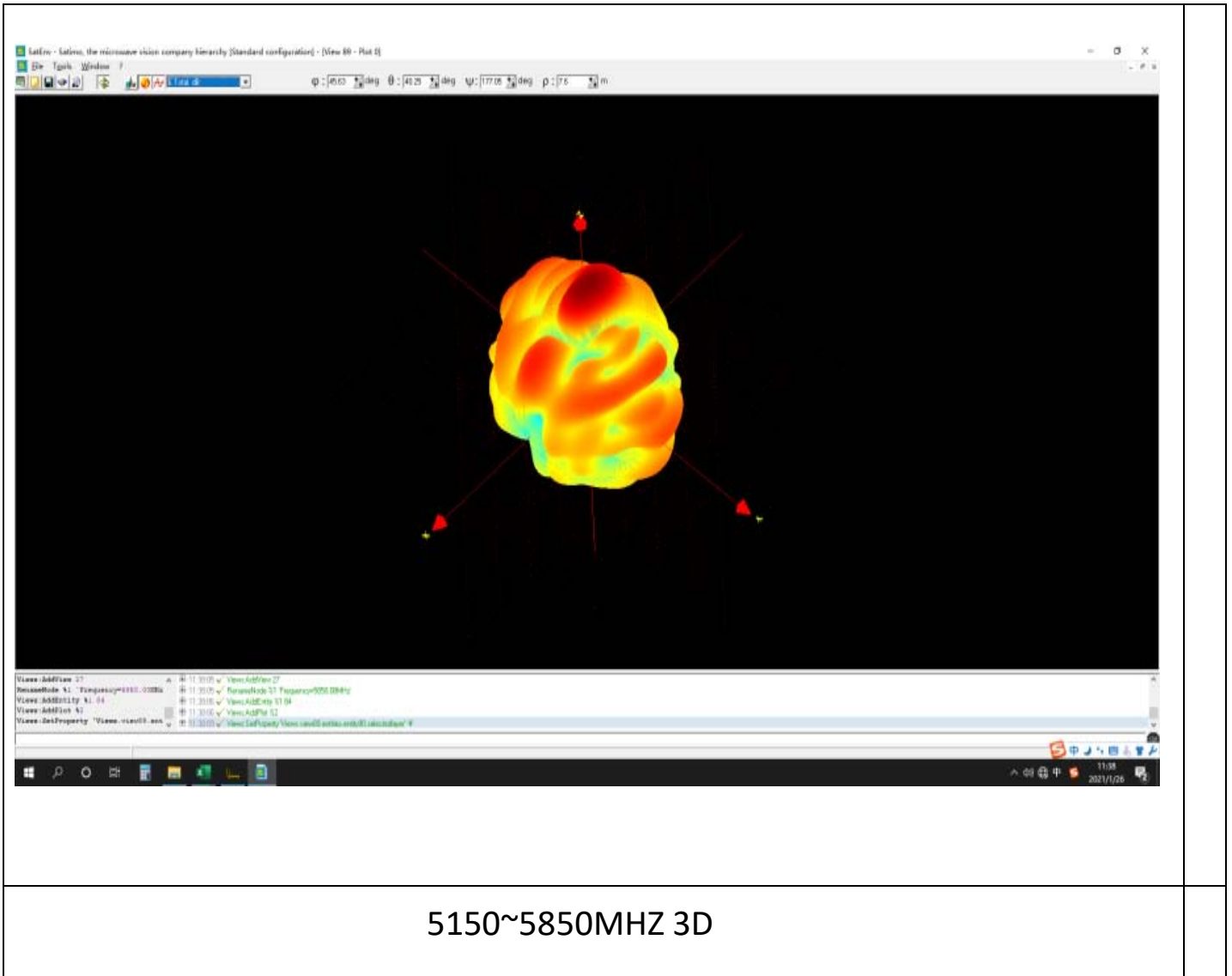




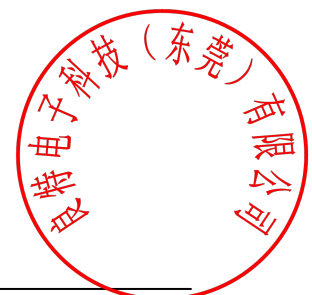




### 3D directional diagram



5150~5850MHZ 3D

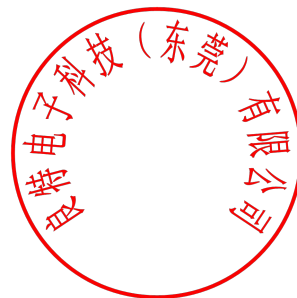




## 4、Gain

Frequency	Efficiency	Gain . dB
5150000000	75%	15.30
5250000000	76%	15.33
5350000000	72%	14.98
5450000000	71%	14.71
5550000000	78%	14.94
5650000000	80%	14.73
5750000000	75%	14.02
5850000000	67%	14.94

Frequency	Efficiency	Gain . dB
5150000000	68%	15.73
5250000000	74%	16.13
5350000000	70%	15.65
5450000000	70%	15.40
5550000000	74%	15.66
5650000000	72%	15.41
5750000000	68%	14.90
5850000000	65%	14.30





Exceltek Electronics Technology (Dongguan) co., Ltd

## Certificate Of Compliance

WE HEREBY CERTIFY THAT ALL RF CABLE ASSEMBLIES LISTED BELOW ARE MANUFACTURED IN COMPLIANCE WITH Ruijie REQUIREMENTS. FOR THE RAW MATERIAL INFORMATION, PLEASE REFER TO THE ATTACHED PART LIST.

P/O.: SAMPLE

- ◆ REV: 01 QTY: 2 PCS
- ◆ DESCRIPTION: ~~0YÖË FÍ Ì FÍ Ë~~ EXPERT POINT GAIN EST350 V2+
- ◆ MPN:
- ◆ RoHS COMPLIANCE



REVIEWED BY: JIMMY

DATE: 2021-08-09

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# Declaration of RoHS Conformity

Customer: Ruijie Networks Co., Ltd.

Declares on raw material, package and process additive that use for specified in column that delivery to customers has been designed and manufactured in compliance with EU Directive 2011/65/EU RoHS requirement of restricted of hazardous substance. Upon the parts specified, we shall take the initiative in time to notify customers about the approval sheet once the material/manufacturing change to make product have any deviation on RoHS.



Company

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