Shenzhen Keesun Technology Co., Ltd

APPROVAL SHEET

Customer Name	
Product Model	Log-periodic antenna
Customer P/N	
Specifications	**300-6000MHz,PCB,300*400*1.5mm 引线 30cm Blue 086Cable,SMA-J**
P/N	
Date Prepared	**2025.12.06**
Revision	**V1.0**

KEESUN		
Prepare	DQE	R&D
Customer		
PUR	QC	R&D

ADD: Room 401, No. 11, Tongfuyu Industrial Zone, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Index

1,Cover·····1

2,Index·····2

3,Product Specification····· 3

4,Reliability Test ····· 4

5,Product Drawing·····5

6,Test Equipment & Conditions·····6

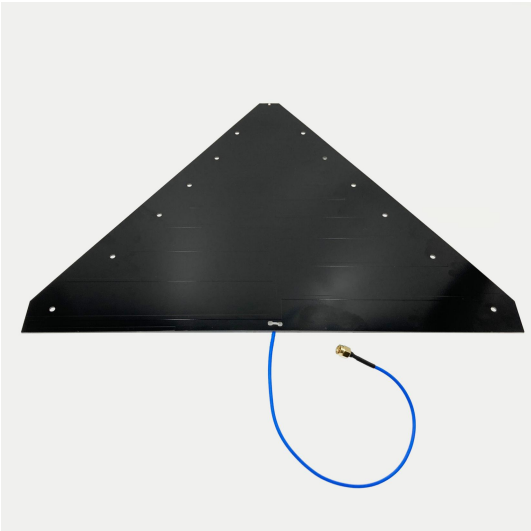
7,Test Report·····7-10

Product Specification

A. Electrical Characteristics	
Frequency	300-700MHz / 700-6000MHz
VSWR	300-700MHz < 3.0，700-6000MHz < 2.0
Peak Gain	4-8dBi / 6-9.5dBi
Impedance	50 Ohm
Polarization	垂直
Horizontal Beamwidth	118-360°/ 54-134°
Vertical Beamwidth	59-74°/ 33-84°
F/B	0-14dB / 12-27dB
Max Power	100W
B. Material & Mechanical	
Connector Type	30cm 蓝色 086 线，末端 SMA-J
Dimension	300*400*1.5mm
Weight	0.272Kg
C. Environmental	
Operation Temperature	- 45˚C ~ +85 ˚C
Storage Temperature	- 45˚C ~ +85 ˚C
Operation Humidity	＜95%
Rated Wind Velocity	36.9m/s
Lighting Protection	DC grounding

D. Photo





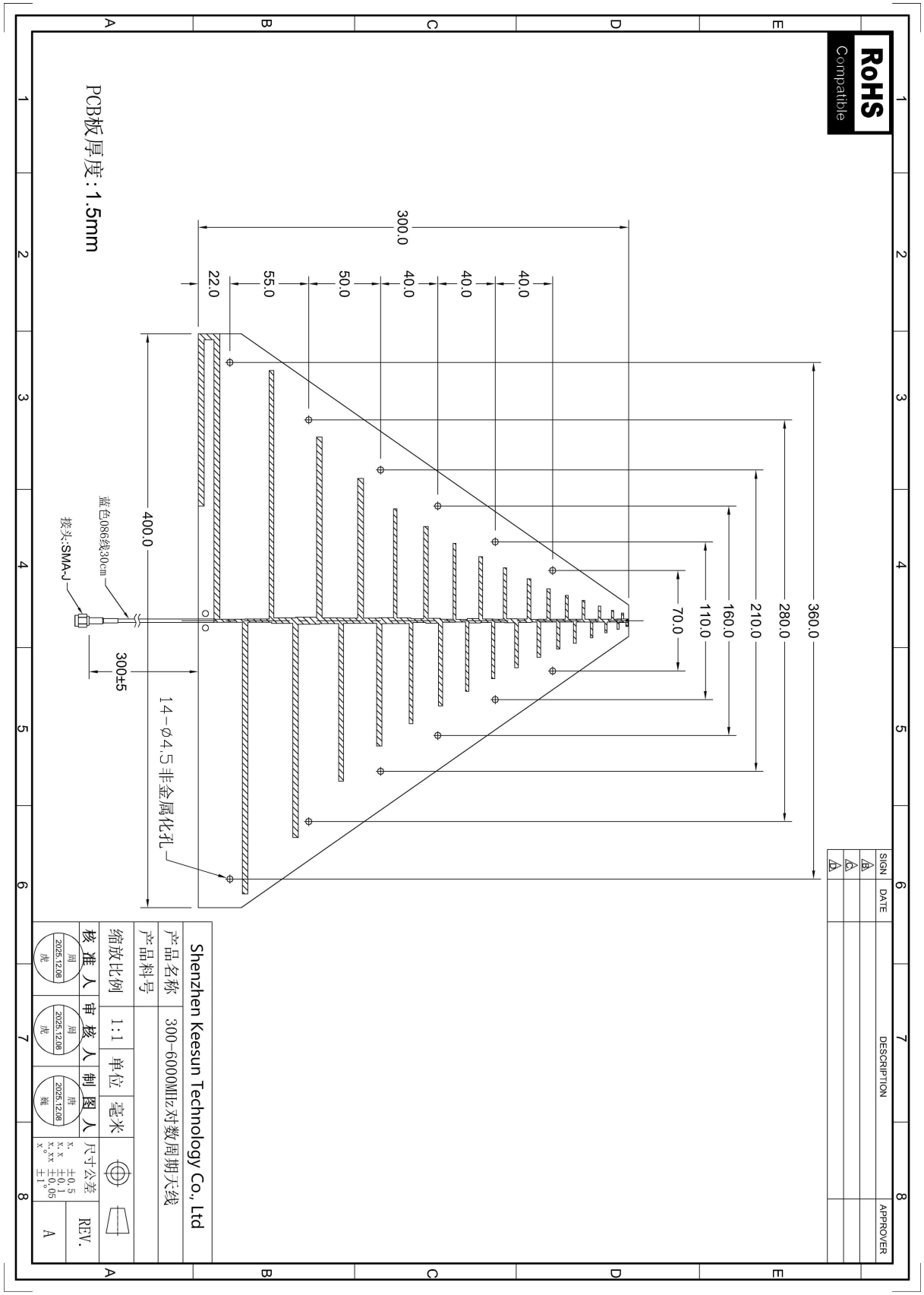
ADD: Room 401, No. 11, Tongfuyu Industrial Zone, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

可靠性测试 Reliability Test

项目	测试条件		规格
储存环境	在没有指定的情况下测试温度、湿度、气压如下： 1.温度为-45℃~+85℃ 2.相对湿度为 45%-85% 3.气压为 86kpa-106kpa		电气机械性能正常
高低温试验	在 85℃与-45℃之间进行 5 次循环，然后在正常环境条件下 1-2H，检查外观质量。		尺寸应满足规定并应满足于机械、电气性能
耐恒定湿热实验	相对湿度 95±3%，试验温度：40℃.持续 2H 作用后， 试品取出后 5min 之内测定电气性能，试品在正常条 件下 1-2H，检查外观质量		尺寸应满足规定并应满足于机械、电气性能
振动试验	振频范围 10-55HZ，位移幅值：0.35MM，加速度幅值： 50.0M/S，扫频循环次数：30 次		电气机械性能正常
跌落试验	1m 高空自由跌落，不同产品选择不同跌落位置(尽量选择易损坏方向) ，每个位置跌落 1 次		电气机械性能正常
拉拔力测试	用推拉力计测试仪器测试其承受力度：≧20N		电气机械性能正常
耐电压	1.绝缘火花电压 1.5KV 2.护套火花电压 1.5KV 3.绝缘对护套耐电压 0.5KV		电气机械性能正常
衰减值	2.0(nominal) 2.9(nominal) 3.2(nominal) 3.7(nominal) 4.3(nominal) 4.8(nominal) 5.3(nominal)	1GHz 2GHz 2.4GHz 3.0GHz 4.0GHz 5.0GHz 6.0GHz	3.3dB/m (at20℃)

Shenzhen Keesun Technology Co., Ltd

产品图纸Product Drawing



ADD: Room 401, No. 11, Tongfuyu Industrial Zone, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

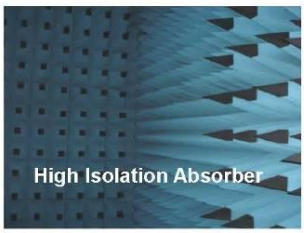
Shenzhen Keesun Technology Co., Ltd

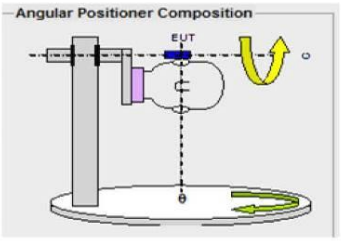
Test Equipment & Conditions

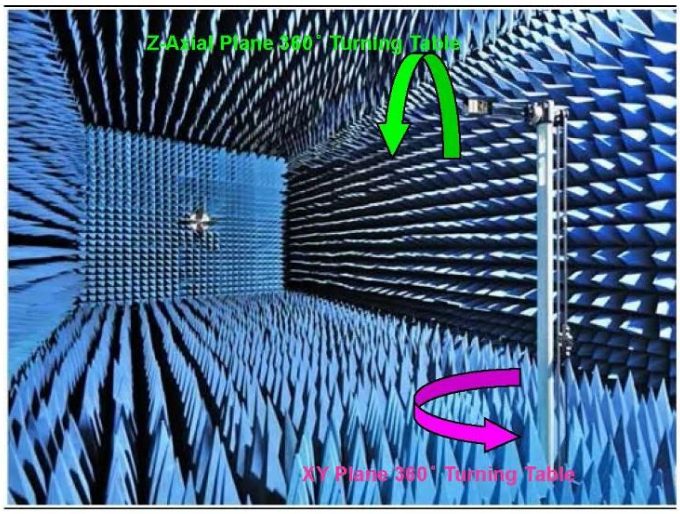
1、Network Analyzers： Keysight E5071C

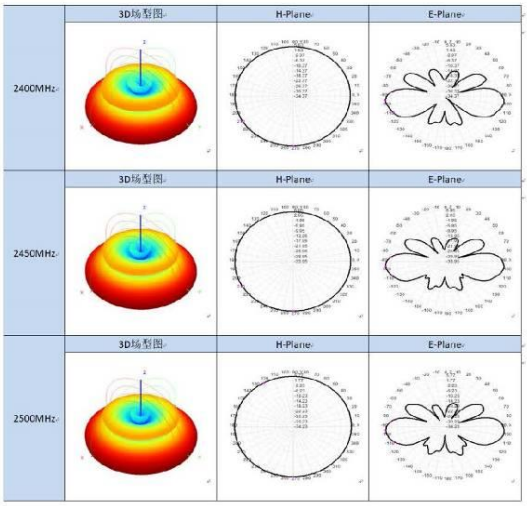
2、3D Chamber Test System

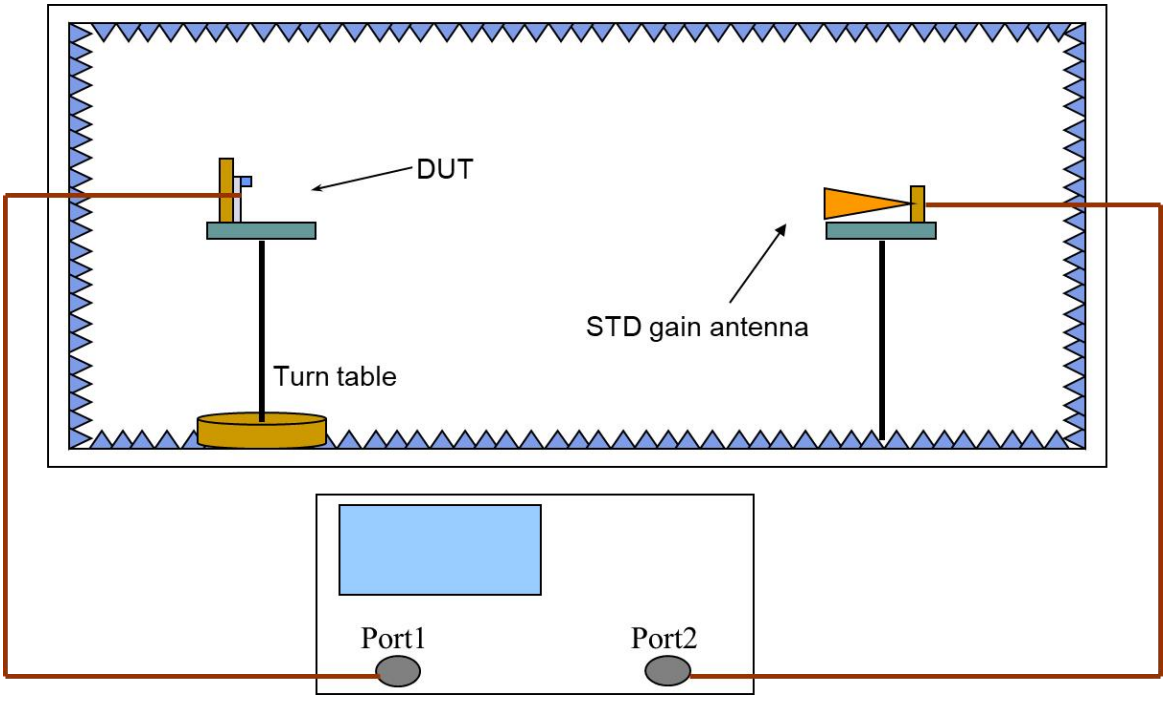
.Chamber Size: 9 x 5 x 4 m³
.Freq. Range: 0.4 ~ 18.0 GHz
.Double Ridge Horn Antenna
.VNA: Agilent E5071C
.3D Turning Table and Positioner
.ADT Solution 3D Testing Software



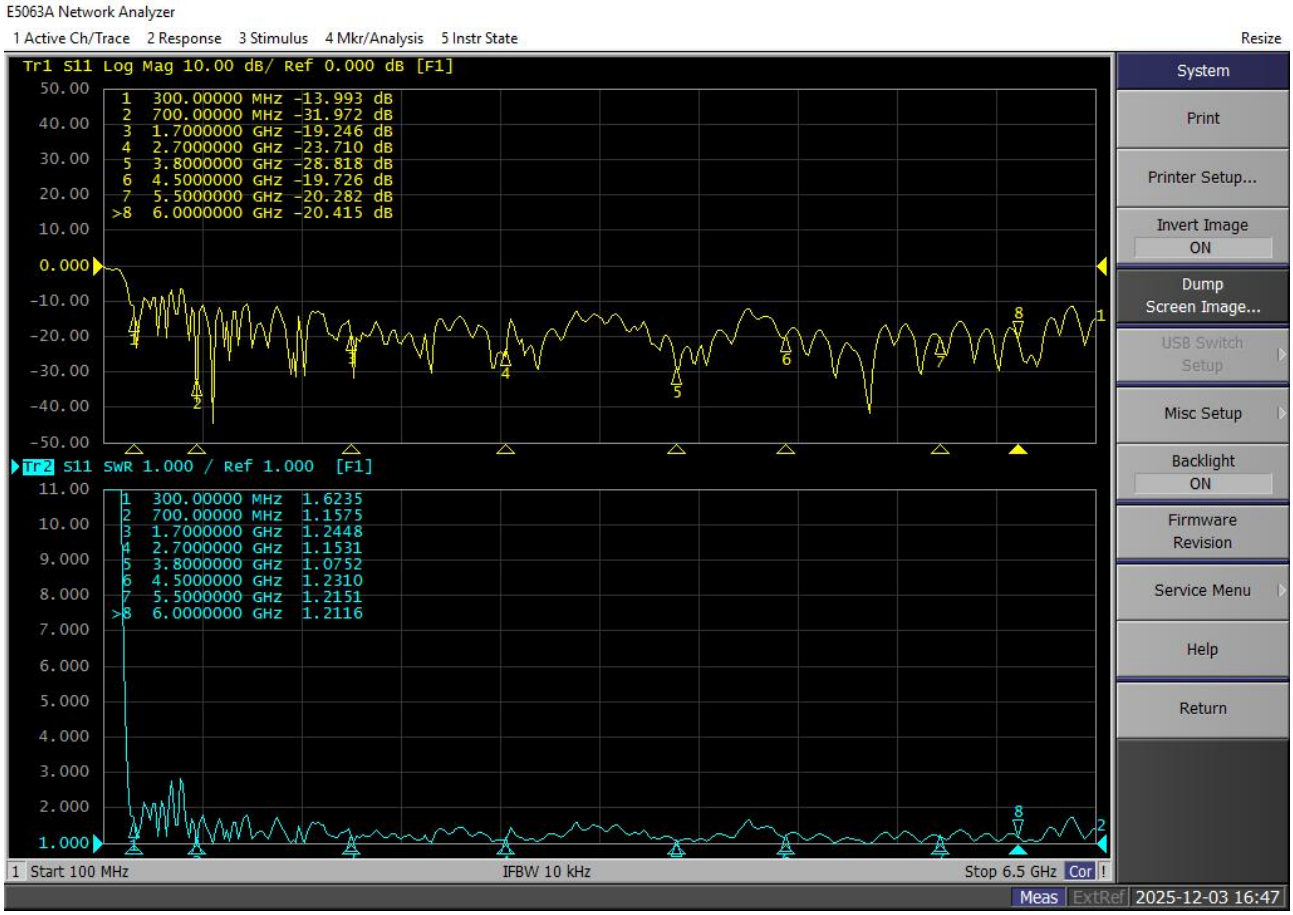








电压驻波比 VSWR


E5063A Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Resize
Tr1 S11 Log Mag 10.00 dB/ Ref 0.000 dB [F1]
1 300.00000 MHz -13.993 dB
2 700.00000 MHz -31.972 dB
3 1.7000000 GHz -19.246 dB
4 2.7000000 GHz -23.710 dB
5 3.8000000 GHz -28.818 dB
6 4.5000000 GHz -19.726 dB
7 5.5000000 GHz -20.282 dB
>8 6.0000000 GHz -20.415 dB
Tr2 S11 SWR 1.000 / Ref 1.000 [F1]
1 300.00000 MHz 1.6235
2 700.00000 MHz 1.1575
3 1.7000000 GHz 1.2448
4 2.7000000 GHz 1.1531
5 3.8000000 GHz 1.0752
6 4.5000000 GHz 1.2310
7 5.5000000 GHz 1.2151
>8 6.0000000 GHz 1.2116
1 Start 100 MHz
IFBW 10 kHz
Stop 6.5 GHz
Cor
Meas
ExtRef
2025-12-03 16:47
System
Print
Printer Setup...
Invert Image
ON
Dump
Screen Image...
USB Switch
Setup
Misc Setup
Backlight
ON
Firmware
Revision
Service Menu
Help
Return

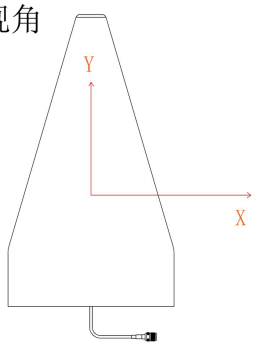
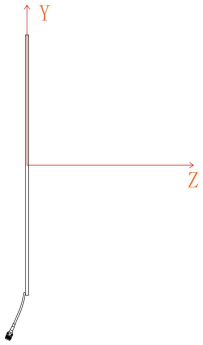
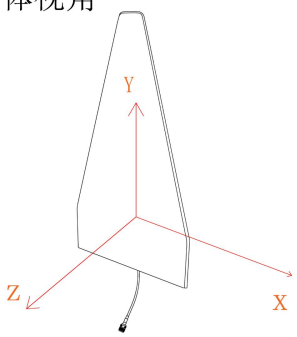
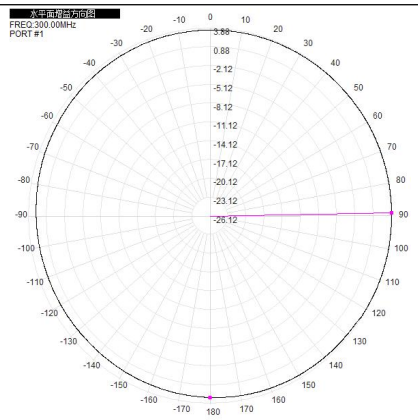
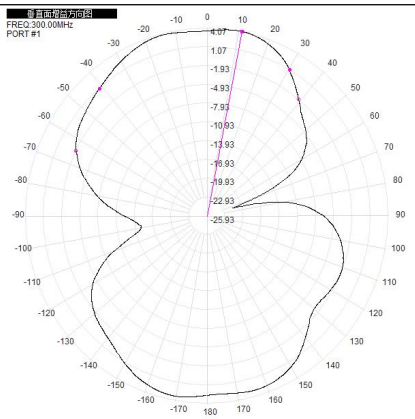
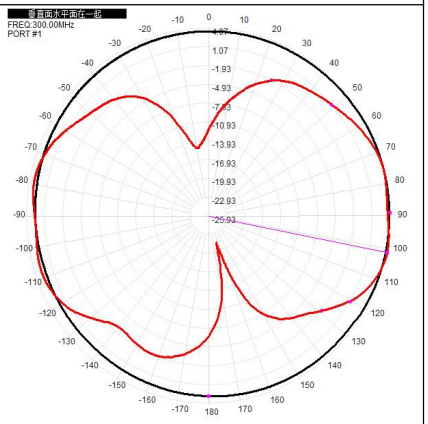
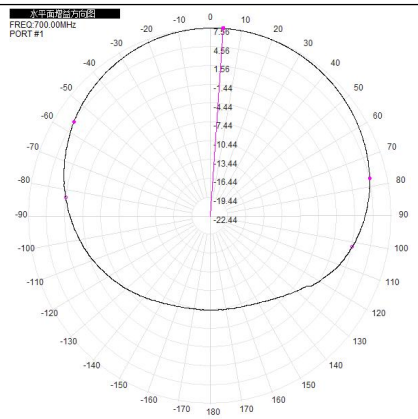
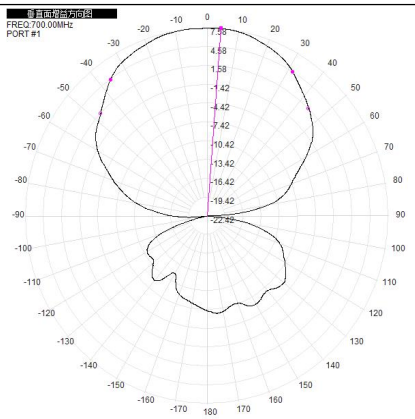
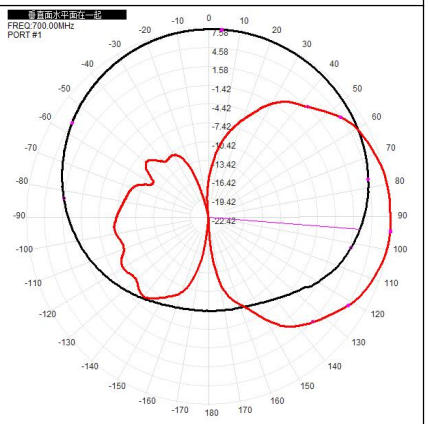
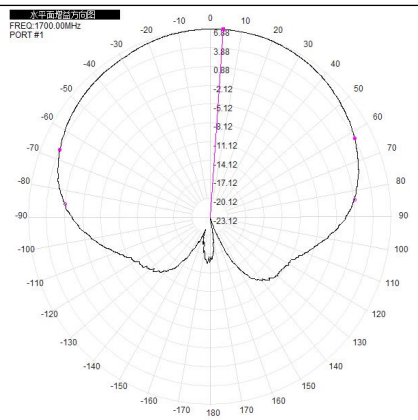
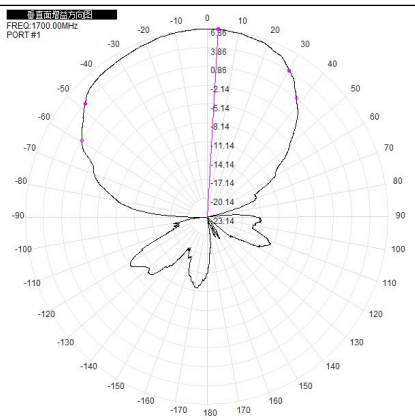
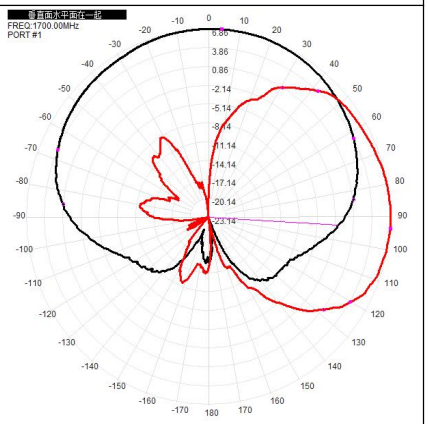
Gain:

Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
300	4.1	3000	7.5
350	4.3	3100	7.5
400	6.4	3200	7.3
450	5.8	3300	7.2
500	6.2	3400	7.1
550	6.7	3500	7.0
600	6.4	3600	7.4
650	8.3	3700	8.9
700	7.6	3800	8.5
800	7.8	3900	8.6
900	6.0	4000	8.1
1000	6.2	4100	8.7
1100	7.2	4200	8.4
1200	6.9	4300	7.4
1300	6.9	4400	8.5
1400	6.5	4500	8.4
1500	7.5	4600	8.0
1600	7.3	4700	7.0
1700	6.9	4800	7.7
1800	7.3	4900	7.9
1900	7.0	5000	8.5
2000	6.8	5100	7.7
2100	6.9	5200	7.7
2200	7.2	5300	7.7
2300	7.1	5400	8.3
2400	7.2	5500	9.3
2500	7.7	5600	8.7
2600	7.0	5700	8.7
2700	7.3	5800	8.9
2800	6.8	5900	8.6
2900	7.4	6000	8.0

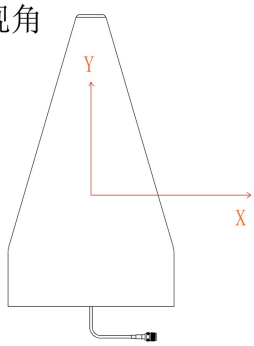
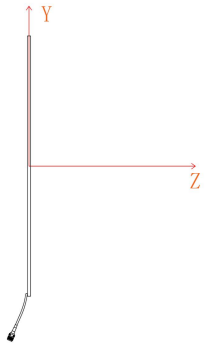
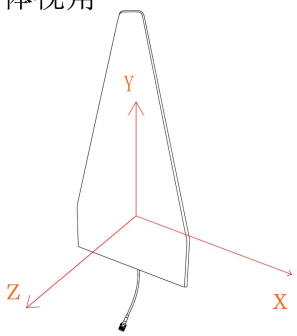
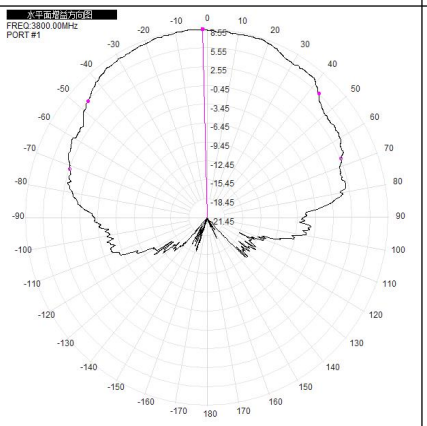
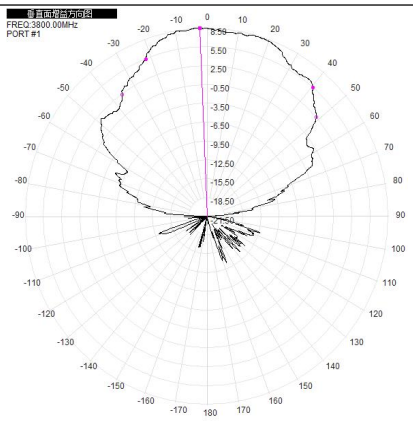
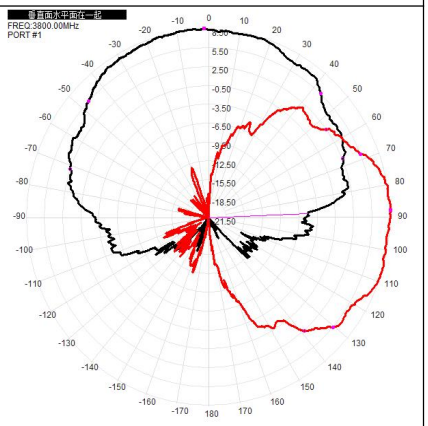
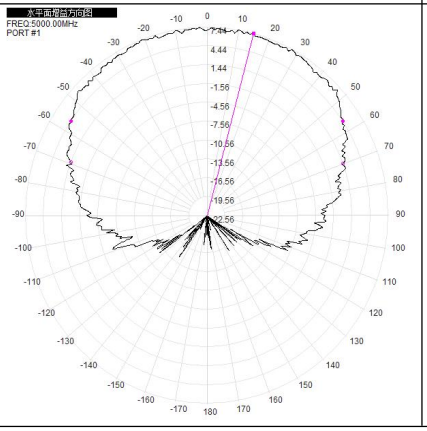
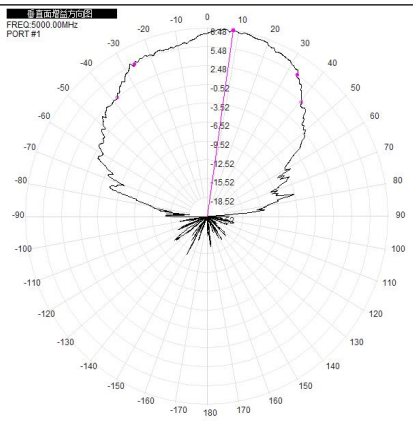
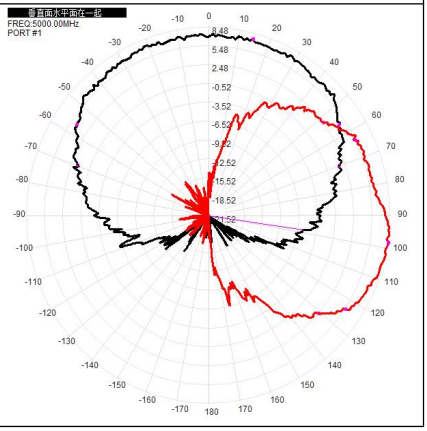
ADD: Room 401, No. 11, Tongfuyu Industrial Zone, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Shenzhen Keesun Technology Co., Ltd

场型图

	2D-水平面	2D-垂直面	两个面放一起看
轴的定义	正面视角 	侧面视角 	立体视角 
300MHz			
700MHz			
1700MHz			

ADD: Room 401, No. 11, Tongfuyu Industrial Zone, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

	2D-水平面	2D-垂直面	两个面放一起看
轴的定义	正面视角 	侧面视角 	立体视角 
3800MHz			
5000MHz			

6000MHz	