

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	深圳市汇联丰供应链管理有限公司(富智康)	
CS P/N(客户机种)	S50 测试用	T50S
PART NAME(品名)	4G 外置天线成品	
FREQUENCY(频率)	4G	
ZTX NO.(物料编号)	1.22.00573	
DATE(日期)	2023-03-16	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): \_\_\_\_\_

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
2023.03.16		邹一麟	罗海群	



Shenzhen ZTX Communication Technology Co., Ltd

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# ANTENNA SPECIFICATION

CUS P/N :S50 测试用 (T50S) 4G 外置天线成品

ApplicationDate:Mar,16,2023

Rev: R:A0

ZTX P/N :S50 测试用 (T50S) 4G 外置天线成品

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## Revision history

版本	日期	状态
A0	2023-03-16	初版

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# ANTENNA SPECIFICATION

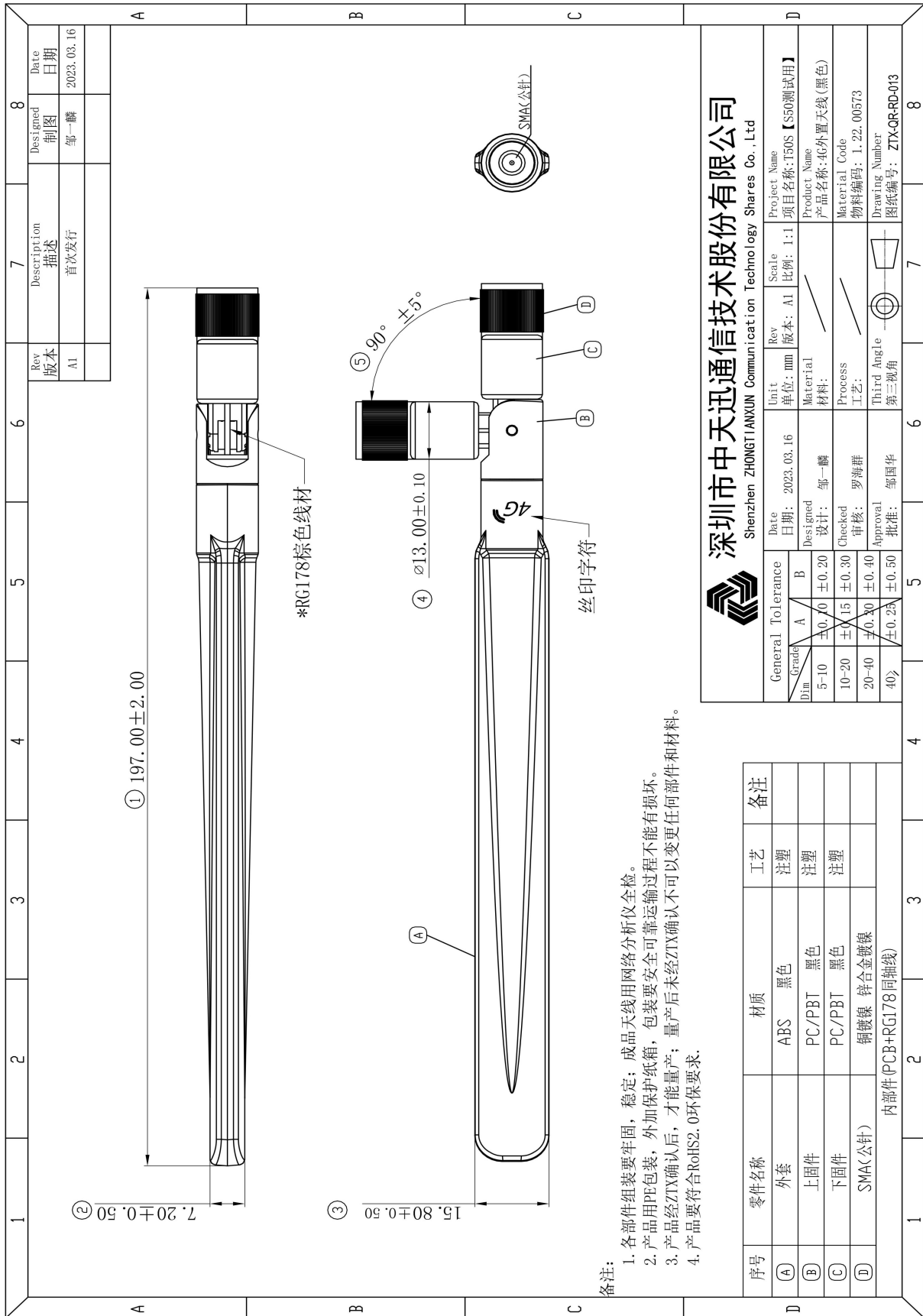
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## 1. Mechanical Specification

### 1. Mechanical Configuration (4G 外置天线成品)



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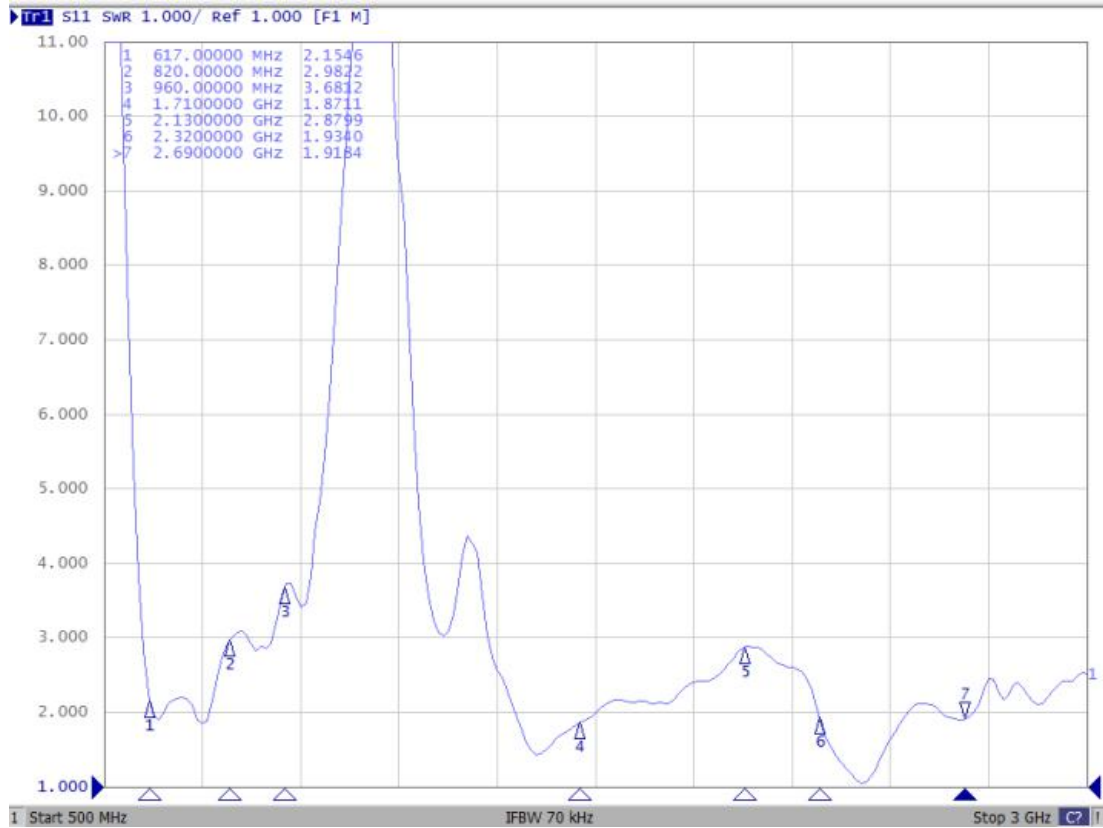
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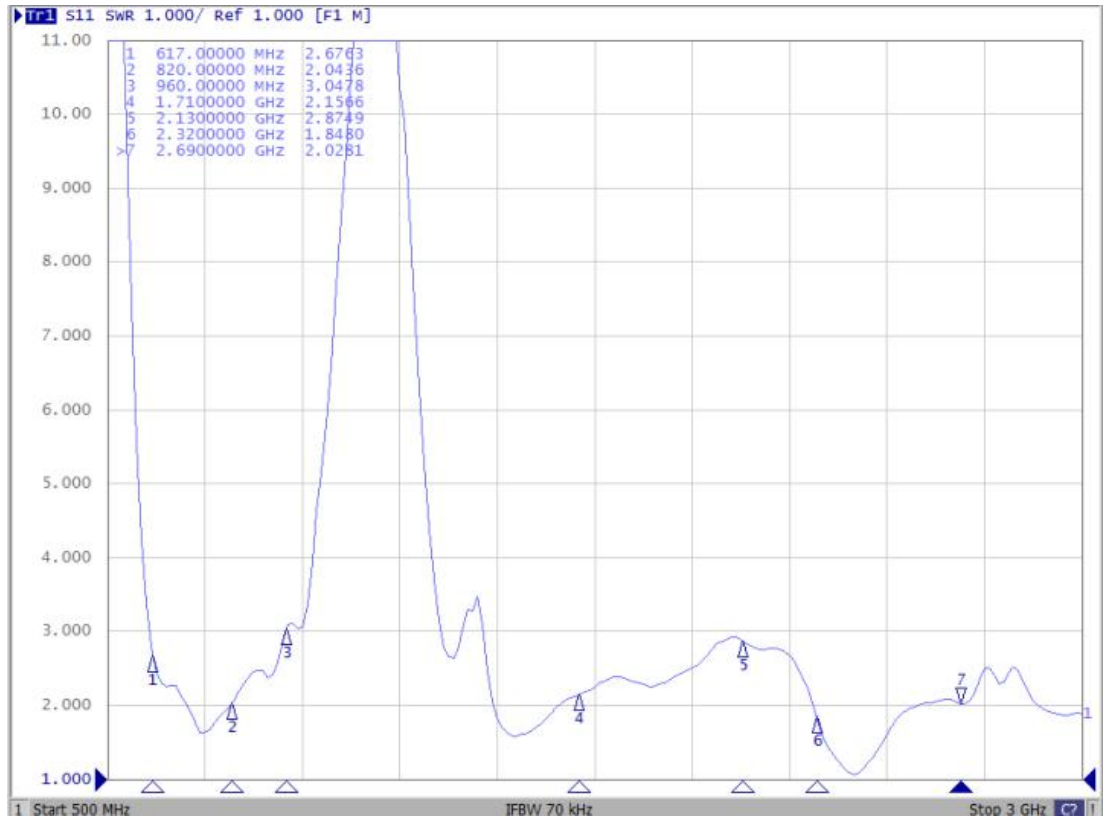
## 2. Antenna test data

### 2-1 VSWR

竖直状态



折弯 90° 状态



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## 2-2 No-source test data

Frequency	Efficiency	Gain . dB
600	36%	-0.49
610	40%	0.12
620	42%	0.47
630	44%	1.13
640	45%	1.42
650	42%	1.36
660	42%	1.38
670	45%	1.58
680	46%	1.32
690	45%	1.05
700	51%	1.44
710	49%	1.47
720	48%	1.58
730	49%	1.81
740	46%	1.62
750	48%	1.87
760	47%	1.65
770	47%	1.35
780	48%	1.29
790	50%	1.47
800	52%	1.72
810	53%	2.03
820	52%	1.92
830	56%	2.31
840	51%	1.93
850	50%	1.87
860	49%	1.62
870	48%	1.46
880	48%	1.43
890	46%	1.22
900	47%	1.54
910	46%	0.83
920	41%	0.65
930	39%	0.28
940	41%	0.48
950	44%	0.61
960	44%	0.50

Frequency	Efficiency	Gain . dB
1710	47%	1.93
1720	48%	2.06
1740	50%	2.04
1760	47%	1.95
1780	44%	1.42
1800	47%	1.50
1820	47%	1.63
1840	48%	1.96
1860	50%	2.08
1880	51%	2.03
1900	51%	2.16
1920	52%	2.20
1940	52%	2.05
1960	51%	2.03
1980	47%	1.60
2000	56%	2.34
2020	50%	1.39
2040	53%	1.59
2060	59%	1.89
2080	53%	1.51
2100	53%	1.26
2120	60%	1.87
2140	56%	1.27
2160	53%	1.37
2180	57%	1.56
2200	60%	1.76
2220	52%	1.19
2240	59%	1.89
2260	57%	2.06
2280	57%	2.10
2300	44%	0.86
2320	58%	1.93
2340	51%	1.87
2360	54%	2.05
2380	65%	2.66
2400	63%	2.76
2420	63%	2.53
2440	66%	2.76
2460	59%	2.69
2480	60%	2.92
2500	60%	3.06
2520	58%	3.12
2540	51%	2.83
2560	59%	2.64
2580	55%	2.76
2600	51%	2.52
2620	54%	2.29
2640	57%	2.49
2660	54%	2.34
2680	52%	2.15
2690	53%	2.14

# ANTENNA SPECIFICATION

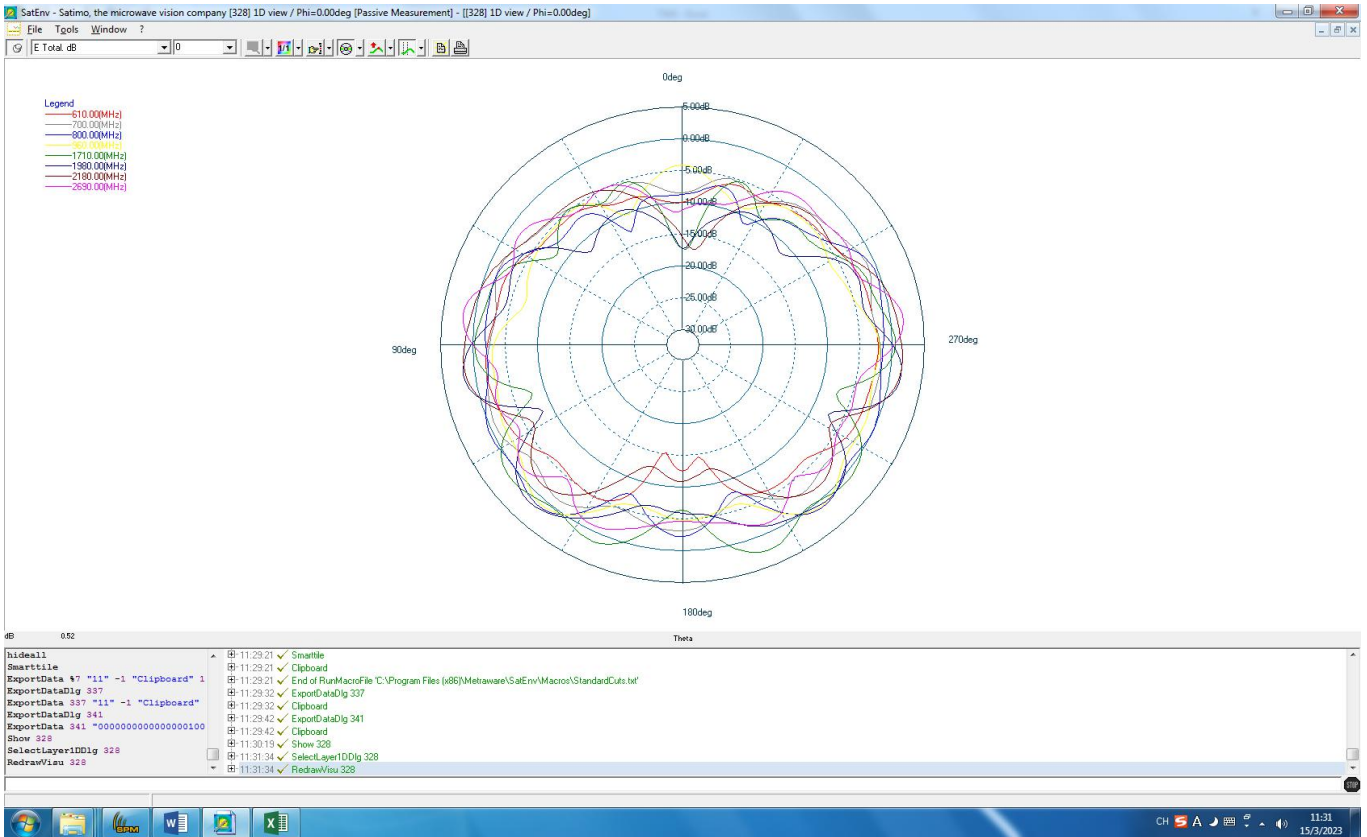
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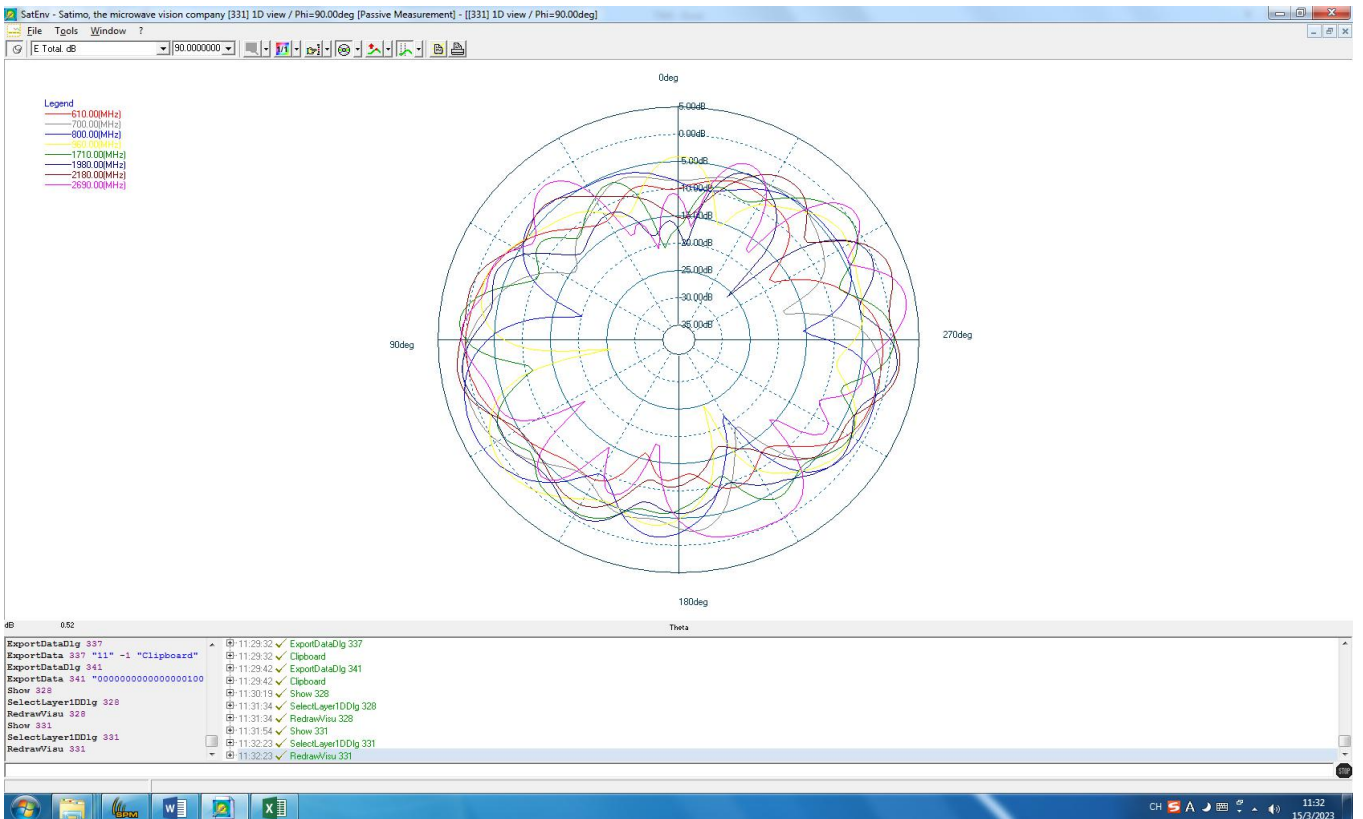
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## 2-3 2D/3D Radiation Pattern Results

Phi=0°



Phi=90°



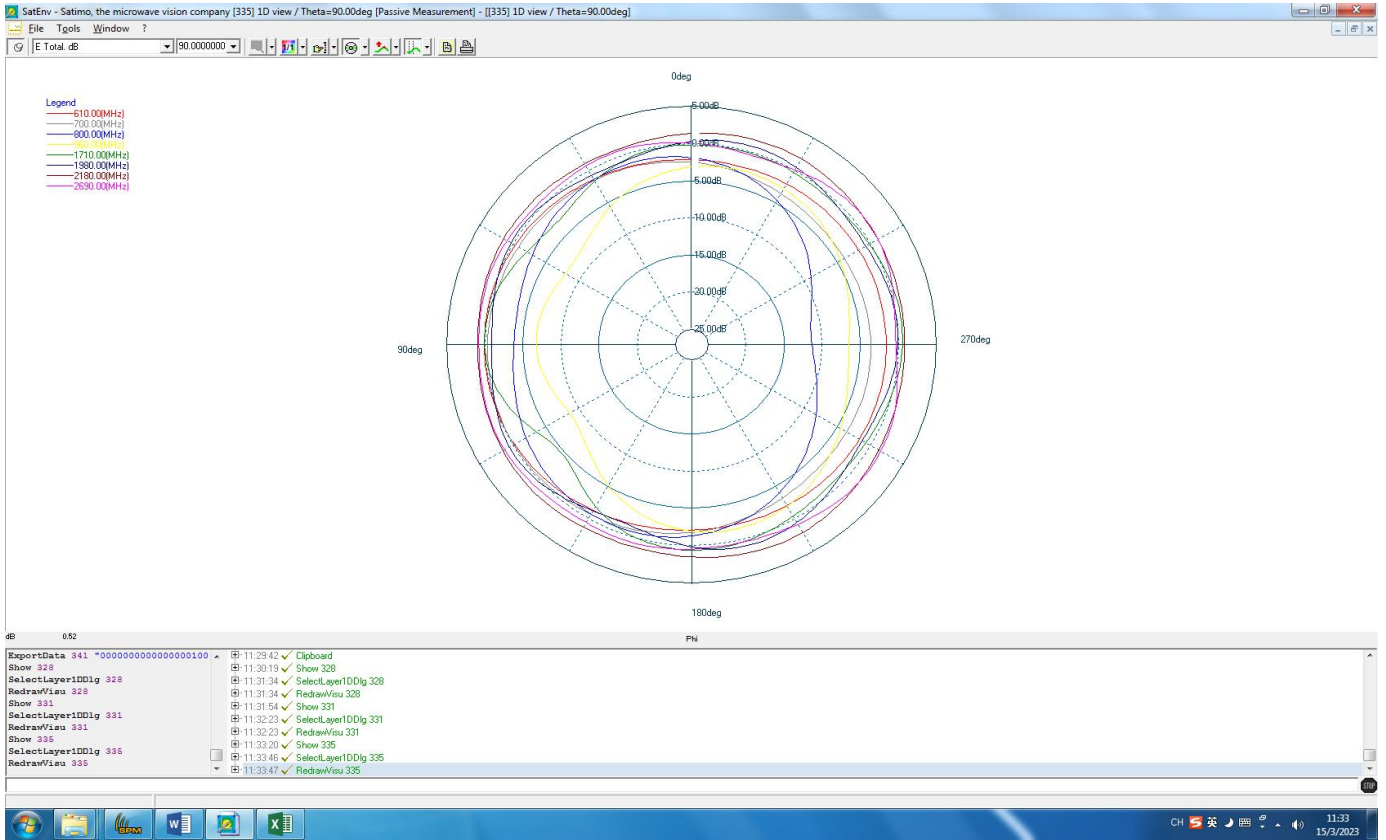
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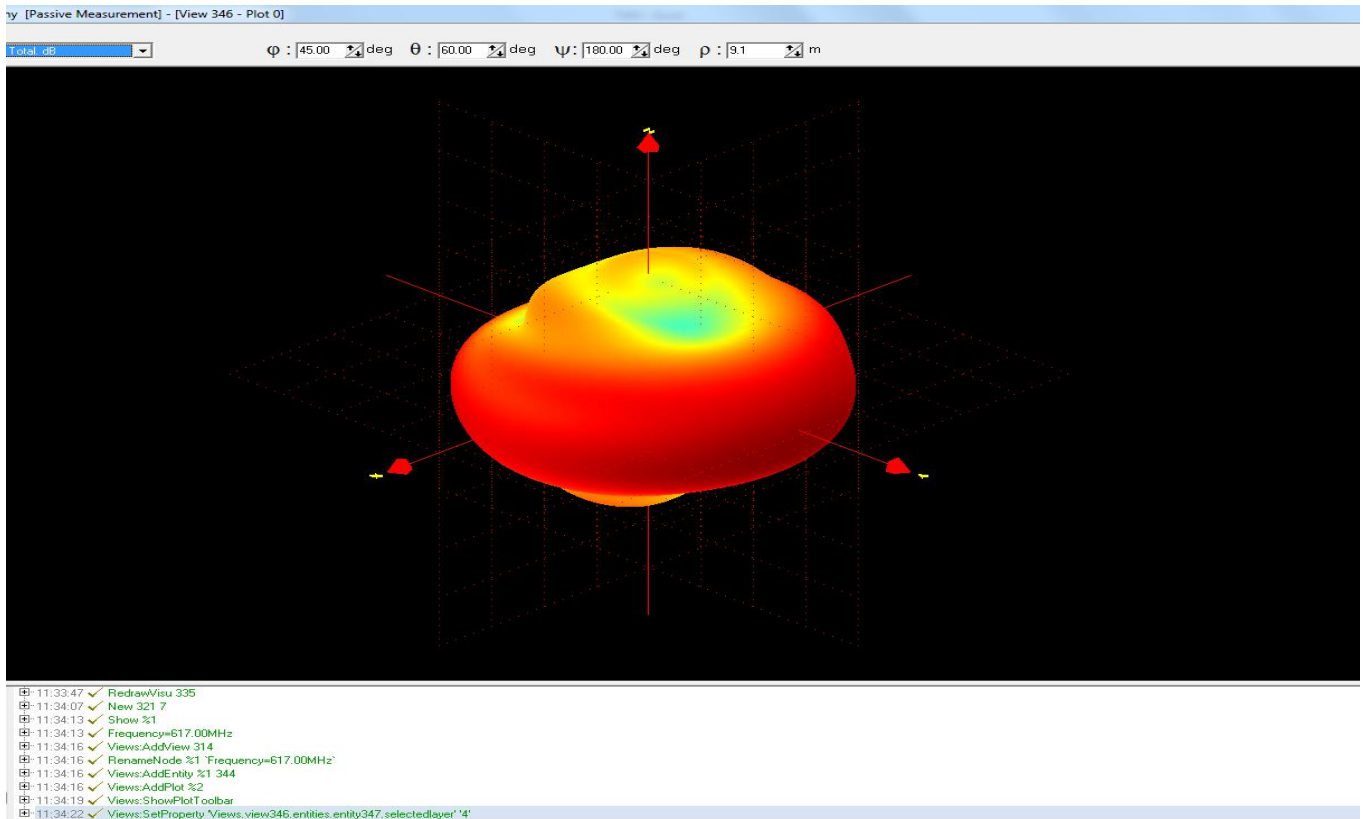
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theta=90°



3D 苹果图





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## 2-4 Environment treatment



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## 4.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.