

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	通力
CS P/N(客户机种)	YY2087C
PART NAME(品名)	WSM_3#天线组件
MODEL NAME(型号名称)	
FREQUENCY(频率)	2400~2500/5150~5975MHz 6025~6975/7025~7125MHz
ZTX NO.(物料编号)	2.00006593
DATE(日期)	2024-06-25

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
		覃乐	韦进	

 **中天迅**

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# ANTENNA SPECIFICATION

CUS P/N :YY2087C\_WSM\_3#天线组件

Application Date:Jun,25,2024

Rev: R:A0

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## Revision history

版本	日期	状态
A0	2024-06-25	初版

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# ANTENNA SPECIFICATION

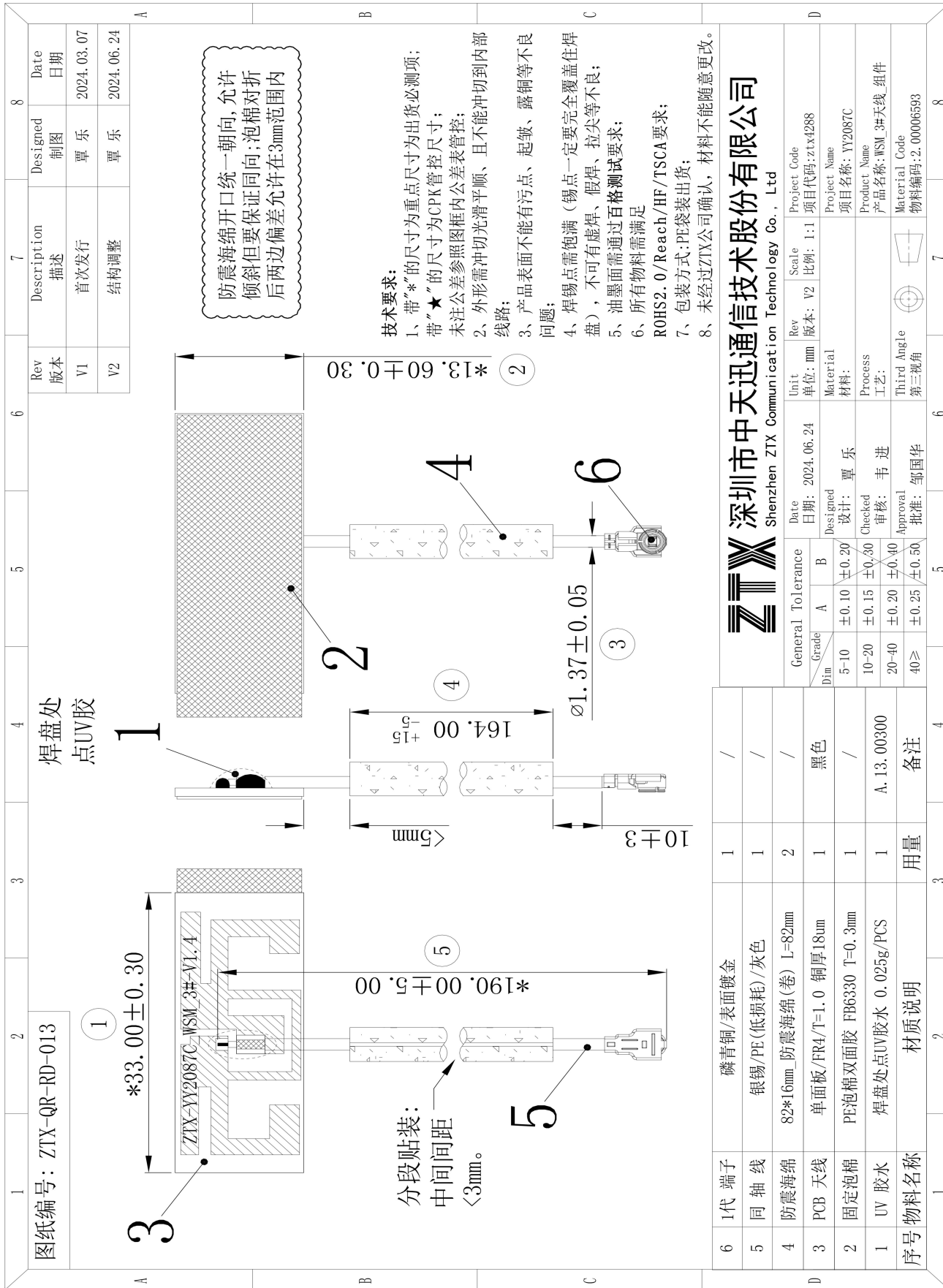
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## 1. Mechanical Specification

### 1-1 Mechanical Configuration (WSM\_3#天线组件)



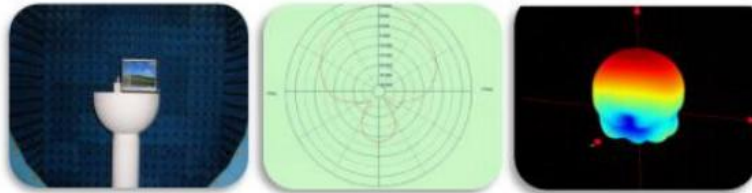
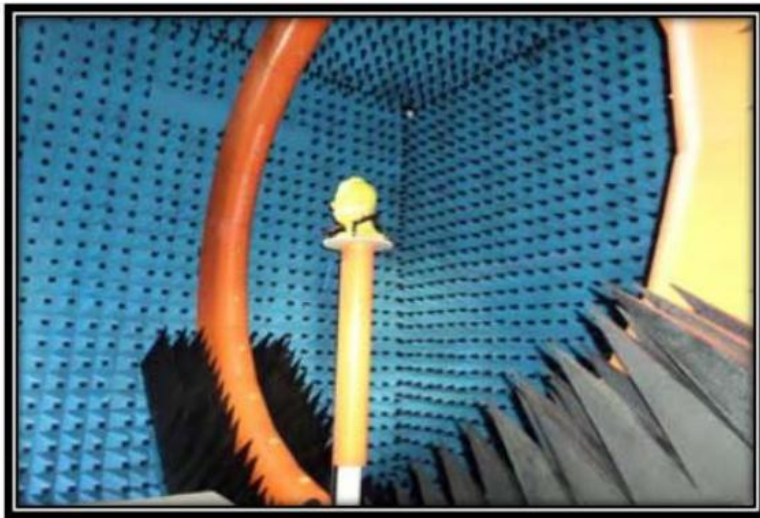
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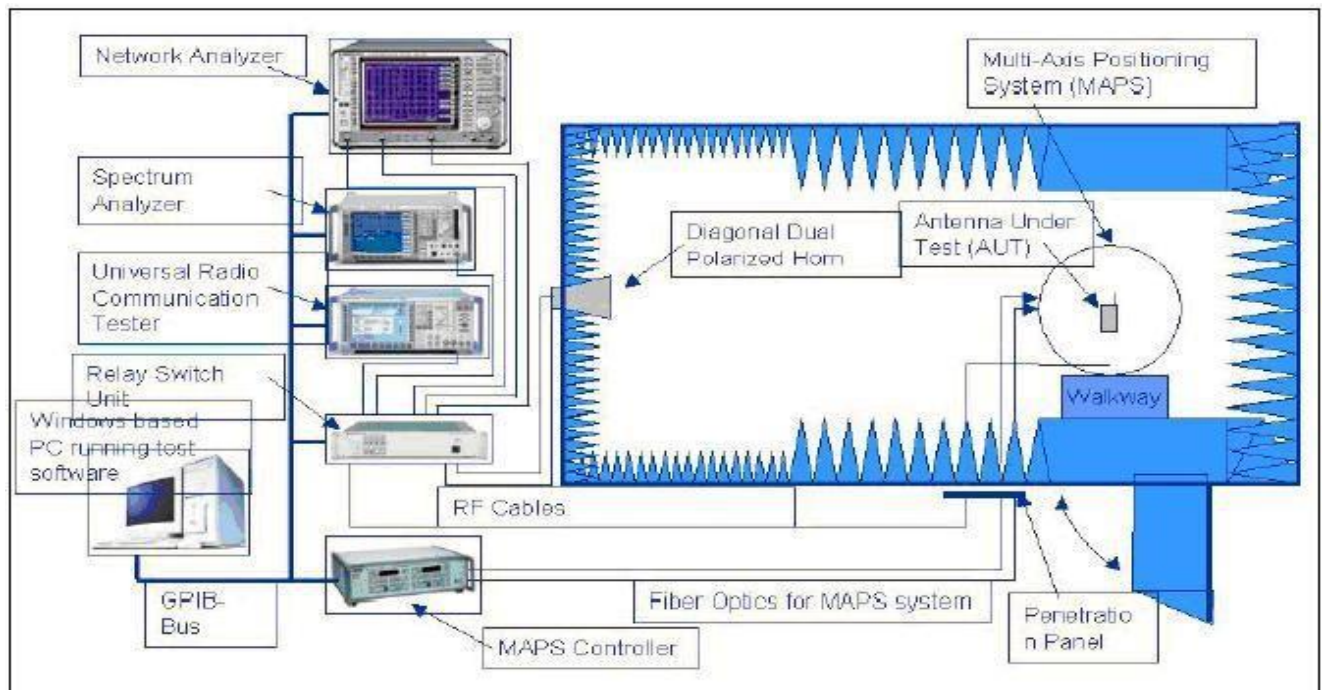
## 2.Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



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## 2-1 Active Test

WIFI传导数据				
频段	模式	CH	功率	灵敏度
2.4G	11b (6M)	1	9.4	-94
		6	9.4	-95
		11	9.4	-94
2.4G	11g (6M)	1	9.5	-92
		6	9.6	-92
		11	9.6	-92
2.4G	11n (6.5M)	1	9.8	-89
		6	9.8	-89
		11	9.8	-89
5G	11a(6M)	36	11.5	-92
		100	12.5	-92
		165	12.5	-92
5G	11n(6.5M)	36	11.6	-89
		100	12.5	-89
		165	12.5	-89

OTA数据 (WIFI ANT1)						OTA数据 (WIFI ANT3)					
频段	模式	CH	TRP	MAX	TIS	频段	模式	CH	TRP	MAX	TIS
2.4G	11b (6M)	1	6.78	11.32	-91.35	2.4G	11b (6M)	1	6.73	11.52	-92.35
		6	6.65	11.56	-92.24			6	6.54	11.47	-92.43
		11	6.71	11.71	-92.11			11	6.33	11.62	-91.85
2.4G	11g (6M)	1	6.41	11.62	-90.59	2.4G	11g (6M)	1	7.08	11.46	-90.33
		6	6.64	11.74	-90.41			6	6.98	11.91	-90.57
		11	6.75	11.82	-90.09			11	6.83	11.76	-90.08
2.4G	11n (6.5M)	1	7.15	11.57	-86.22	2.4G	11n (6.5M)	1	7.04	11.84	-87.30
		6	7.27	11.75	-87.12			6	7.31	11.53	-87.11
		11	7.35	11.91	-87.39			11	7.22	11.76	-86.52
5G	11a(6M)	36	9.12	15.85	-89.20	5G	11a(6M)	36	9.24	15.72	-89.77
		100	9.66	16.12	-89.77			100	9.51	16.21	-90.35
		165	9.90	16.23	-89.56			165	9.47	16.42	-90.44
5G	11n(6.5M)	36	9.24	15.44	-86.51	5G	11n(6.5M)	36	9.31	15.64	-87.06
		100	9.59	16.34	-86.33			100	9.55	16.28	-86.19
		165	9.81	16.21	-86.09			165	9.74	16.37	-86.22

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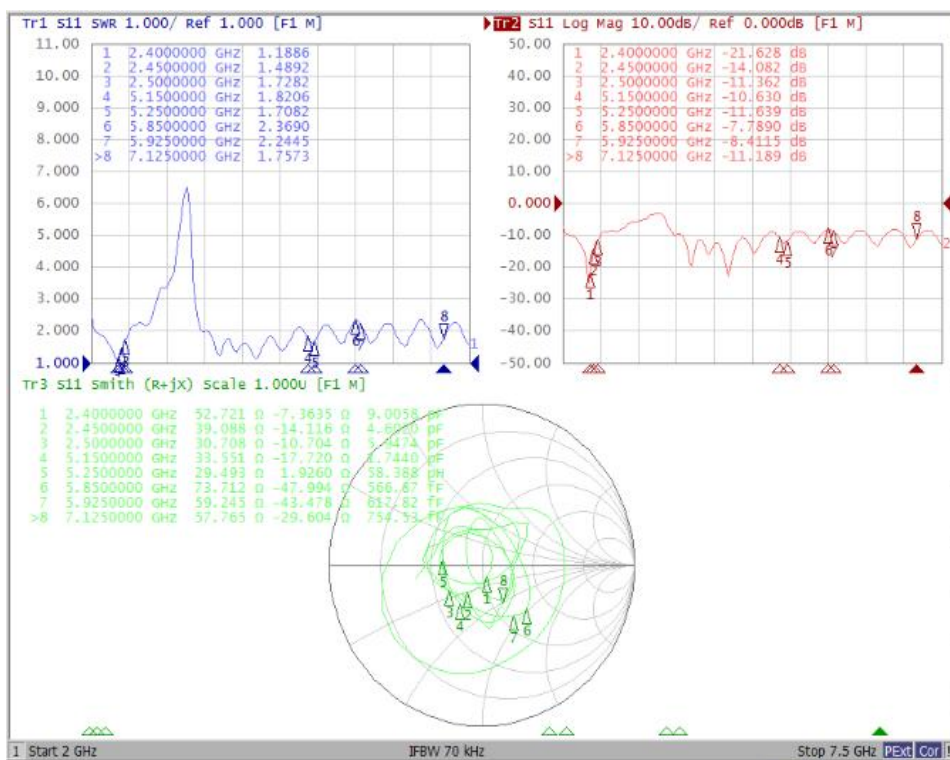
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## 2-2 VSWR&S11



## 2-3 Passive Test

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	59%	-2.32	2.62	5925	51%	-2.91	4.43
2410	57%	-2.41	2.75	5975	58%	-2.38	4.42
2420	58%	-2.39	2.52	6025	56%	-2.54	4.46
2430	57%	-2.42	2.49	6075	54%	-2.70	4.29
2440	55%	-2.57	2.06	6125	53%	-2.74	4.48
2450	55%	-2.56	2.04	6175	51%	-2.91	4.54
2460	56%	-2.52	2.01	6225	49%	-3.06	4.54
2470	54%	-2.64	1.77	6275	52%	-2.80	4.55
2480	55%	-2.60	1.74	6325	50%	-3.00	4.47
2490	55%	-2.61	1.94	6375	57%	-2.43	4.52
2500	54%	-2.64	2.02	6425	60%	-2.21	4.58
5150	52%	-2.85	4.38	6475	61%	-2.14	4.52
5200	52%	-2.82	4.46	6525	62%	-2.07	4.71
5250	53%	-2.75	4.52	6575	61%	-2.16	4.67
5300	57%	-2.45	4.71	6625	55%	-2.63	4.28
5350	52%	-2.82	4.37	6675	54%	-2.64	4.21
5400	55%	-2.58	4.76	6725	52%	-2.86	4.09
5450	54%	-2.69	4.32	6775	49%	-3.08	3.68
5500	58%	-2.39	4.45	6825	52%	-2.86	3.75
5550	60%	-2.21	4.5	6875	53%	-2.73	3.97
5600	58%	-2.36	4.48	6925	52%	-2.83	3.97
5650	59%	-2.26	4.69	6975	56%	-2.54	4.28
5700	57%	-2.41	4.33	7025	51%	-2.90	3.58
5750	56%	-2.52	4.08	7075	49%	-3.07	4.14
5800	53%	-2.75	4.02	7125	46%	-3.38	3.29
5850	56%	-2.49	3.85				

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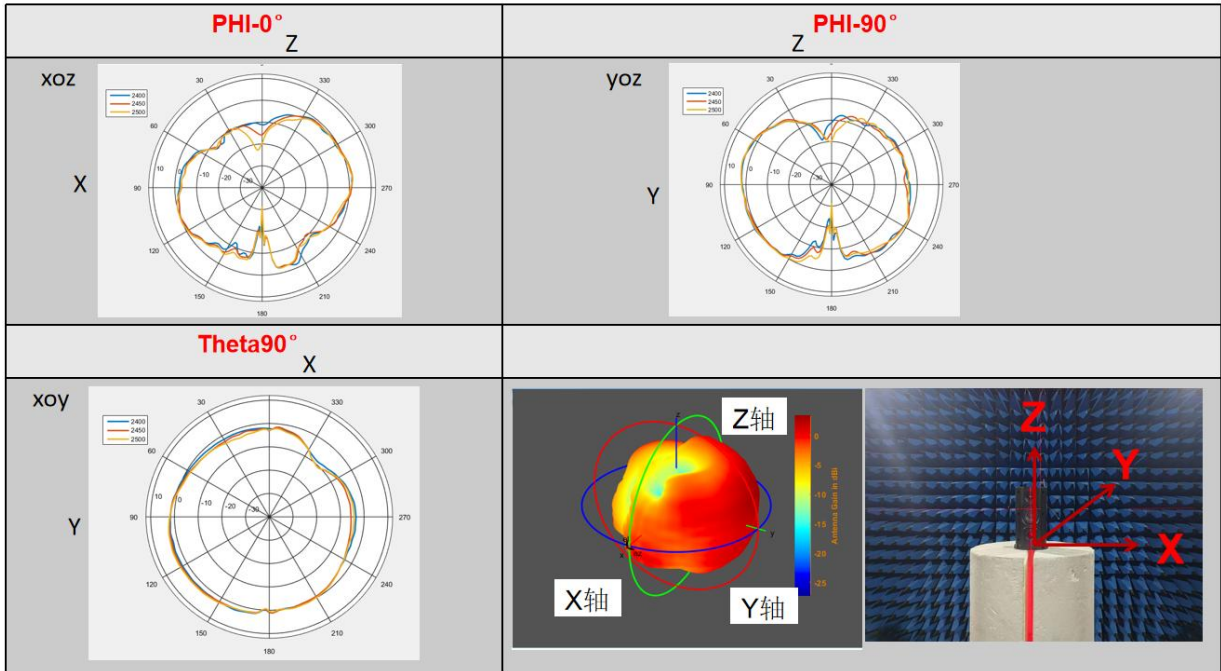
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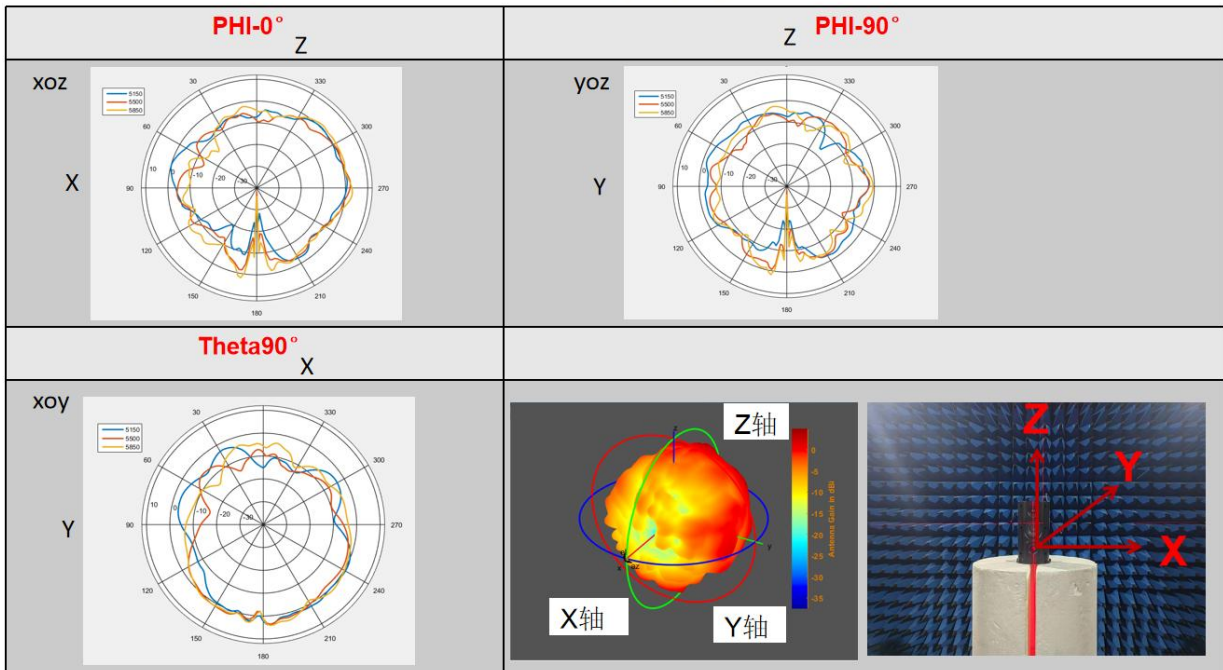
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## 2-4 2D/3D Radiation Pattern Results

ANT 3#\_2G (方向图)



ANT 3#\_5G (方向图)





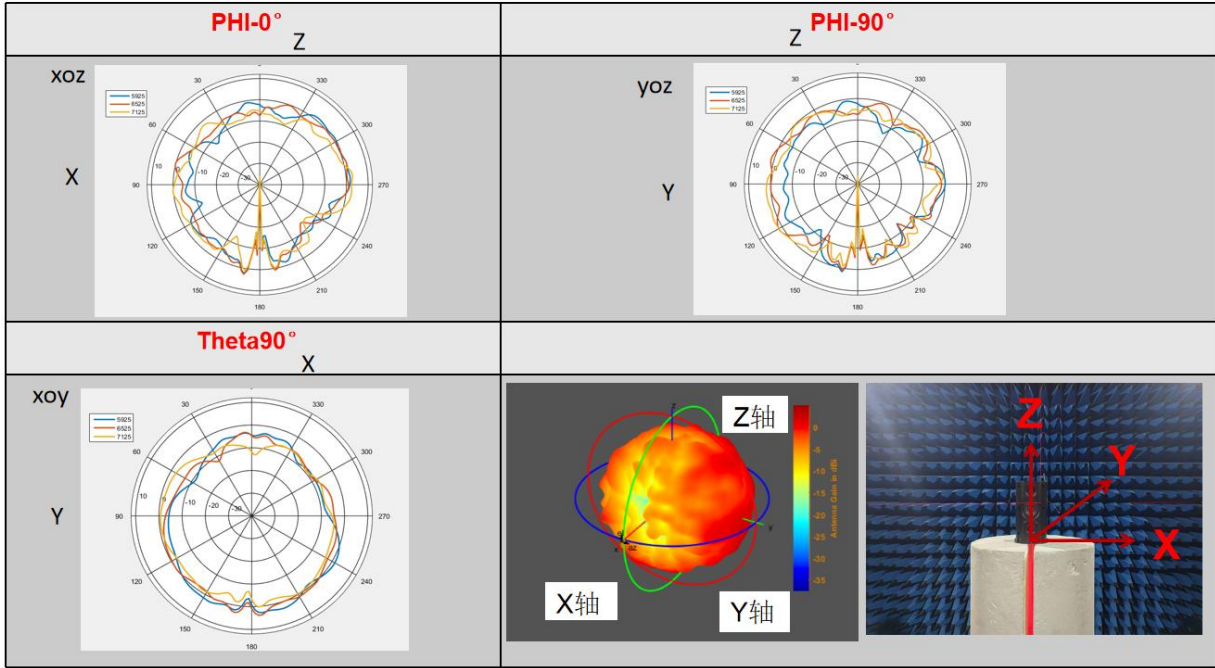
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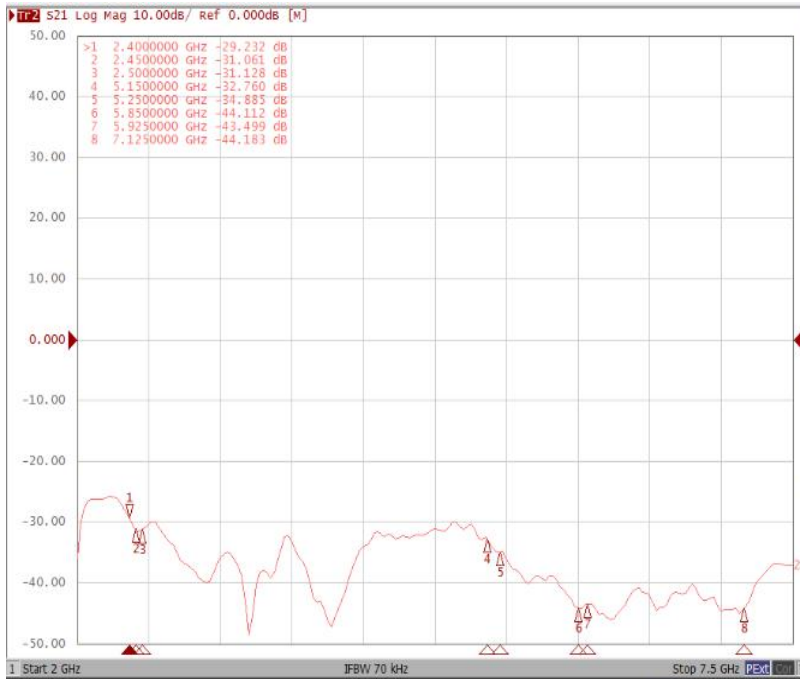
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ANT 3#\_6G (方向图)



2-5 insulation

ANT1&ANT2



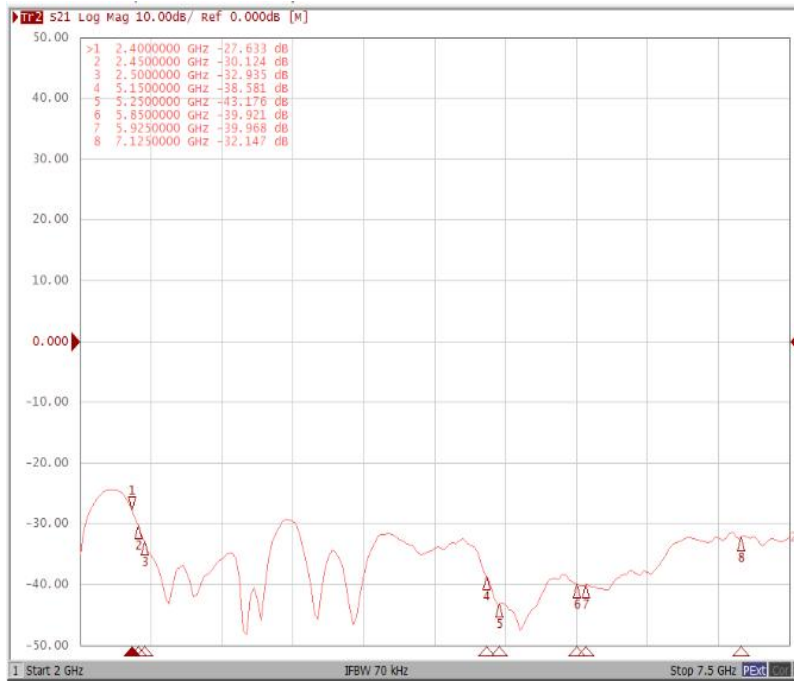
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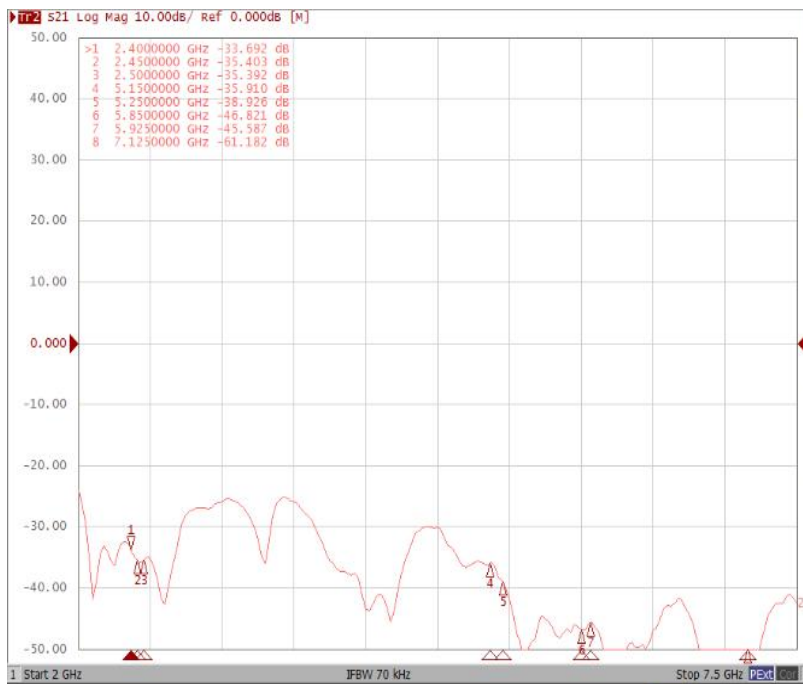
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Ant1&Ant3



Ant2&Ant3



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## 2-6 Environment treatment

Ant-3: WIFI (2.4G/5G/6E)

