

深圳市和鸣微科技有限公司

Shenzhen HamyWe Technology Co., Ltd.

Break X2

Ver.
V 1



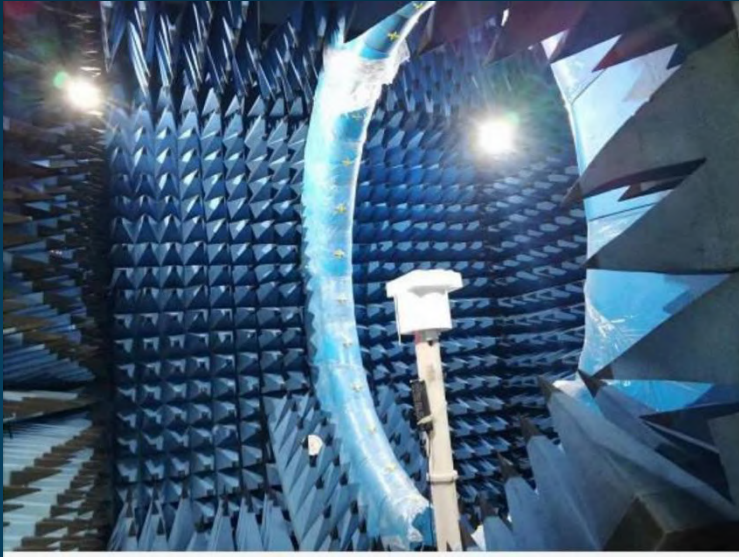
2024/05/07

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Test equipment

SG24



GTS



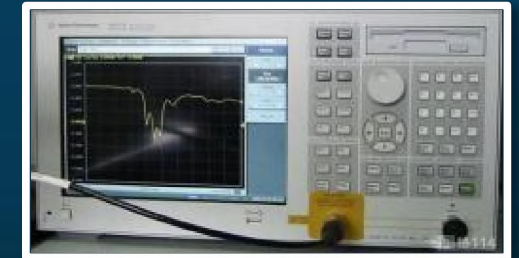
Agilent 8960



CMW 500



SP9500



Agilent E5071B

Test System	Test environment	Active testing	Passive testing
SG24	$22^{\circ}\text{C} \pm 3^{\circ}\text{C}$	5G/4G/3G/2G BT/	600MHZ——6G
GTS	$50\% \pm 15\%$	WIFI/GPS	

Project Description

Break X2



Audio equipment

Antenna type:FPC

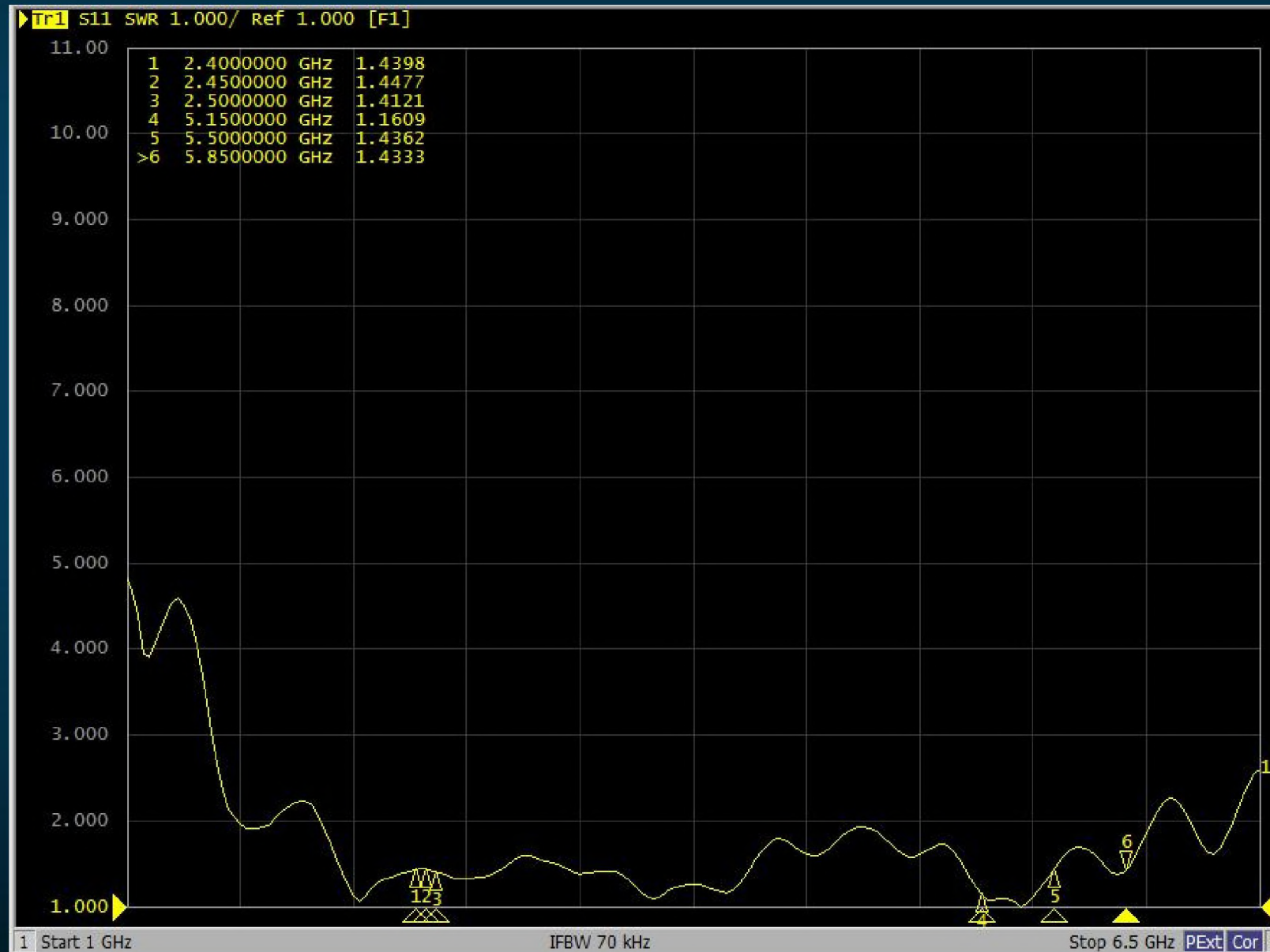
plan:

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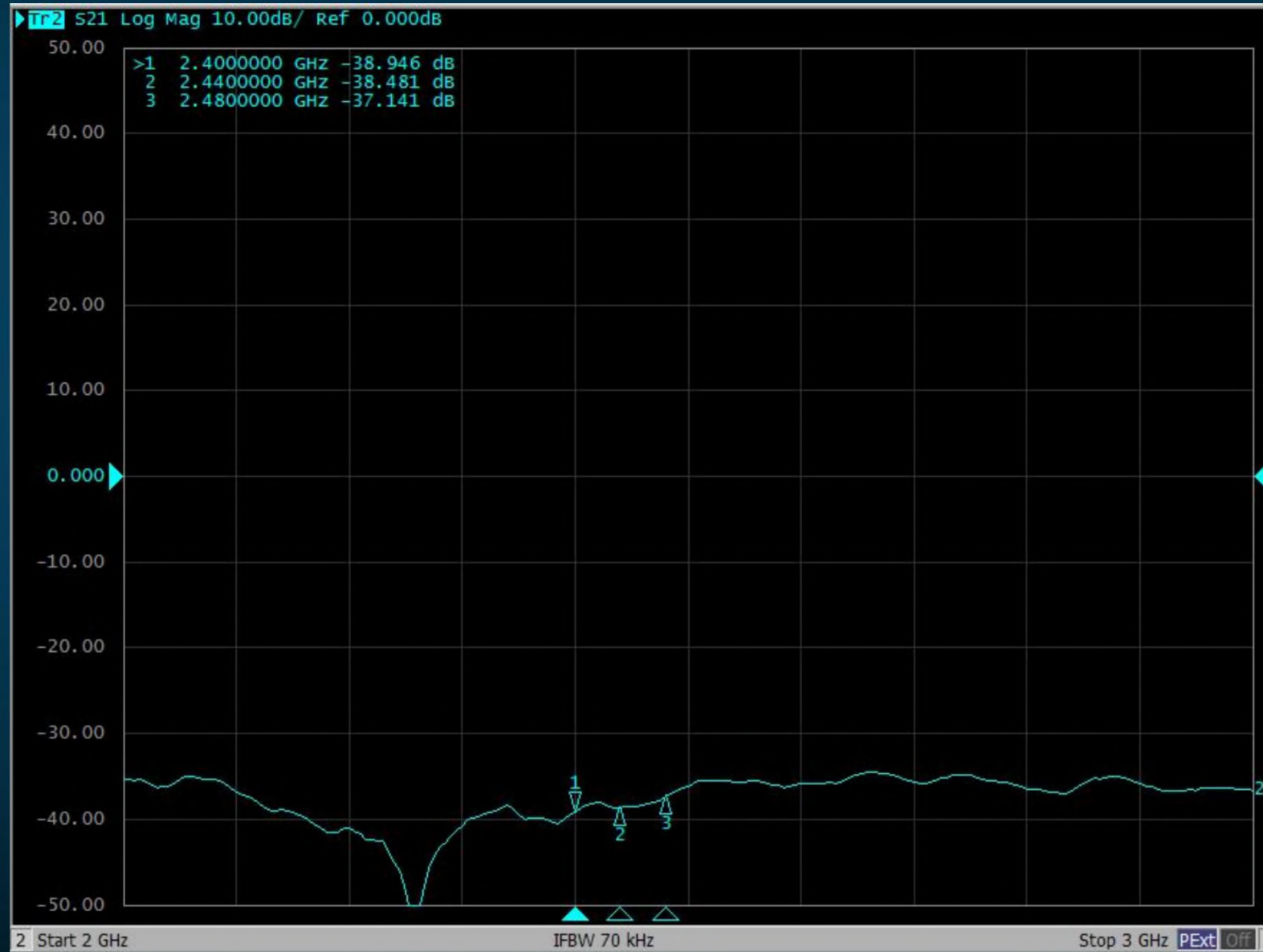
Break X2

[illegible]

wifi-S11 Test data



ANT1-ANT4 S21 Isolation data



ANT5-ANT6 S21 Isolation data



ANT1- GAIN & Efficiency

			Frequency (MHz)	Gain(dBi)	Efficiency (%)
Frequency (MHz)	Gain(dBi)	Efficiency (%)	5150	1.91	41.63
2400	4.67	57.39	5200	1.44	44.64
2410	4.3	56.57	5250	1.66	44.49
2420	3.87	54.48	5300	1.96	43.29
2430	3.59	56.26	5350	1.54	44.35
2440	3.23	56.65	5400	1.32	44.9
2450	3.46	58.18	5450	1.27	44.18
2460	3.55	58.44	5500	1.65	46.62
2470	3.64	60.47	5550	1.83	46.72
2480	3.71	61.13	5600	1.44	43.63
2490	3.65	61.42	5650	2	42.64
2500	3.66	62.21	5700	2.03	42.17
			5750	2	39.56
			5800	2.97	45.59
			5850	2.73	44.62

ANT4-5 GAIN & Efficiency

ANT4

Frequency (MHz)	Gain(dBi)	Efficiency (%)
2400	2.82	72.44
2410	2.69	71.09
2420	2.52	68.59
2430	2.51	69.76
2440	2.44	68.98
2450	2.49	70.7
2460	2.53	71.69
2470	2.51	73.54
2480	2.55	73.75
2490	2.54	73.87
2500	2.65	73.27

ANT5

Frequency (MHz)	Gain(dBi)	Efficiency (%)
2400	5.46	65.55
2410	5.34	64.24
2420	5.15	61.66
2430	5.06	62
2440	4.83	61.22
2450	4.78	62
2460	4.81	60.76
2470	5.17	62.08
2480	5.42	62.89
2490	5.6	62.57
2500	5.67	62.97

ANT6 GAIN & Efficiency

BT

Frequency/Mhz	MaxGain/dBi	Efficiency/%	Frequency/Mhz	MaxGain/dBi	Efficiency/%
2400	5.01	57.94	2445	4.25	59.57
2405	5.06	59.43	2450	4.21	59.02
2410	4.69	57.02	2455	4.32	60.26
2415	4.66	59.02	2460	4.07	59.02
2420	4.67	60.39	2465	4	58.08
2425	4.63	61.38	2470	3.96	58.21
2430	4.47	60.95	2475	3.66	56.75
2435	4.17	57.94	2480	3.45	56.89
2440	4.14	58.21	2485	3.52	58.34
2445	4.25	59.57			

WIFI-OTA Test data

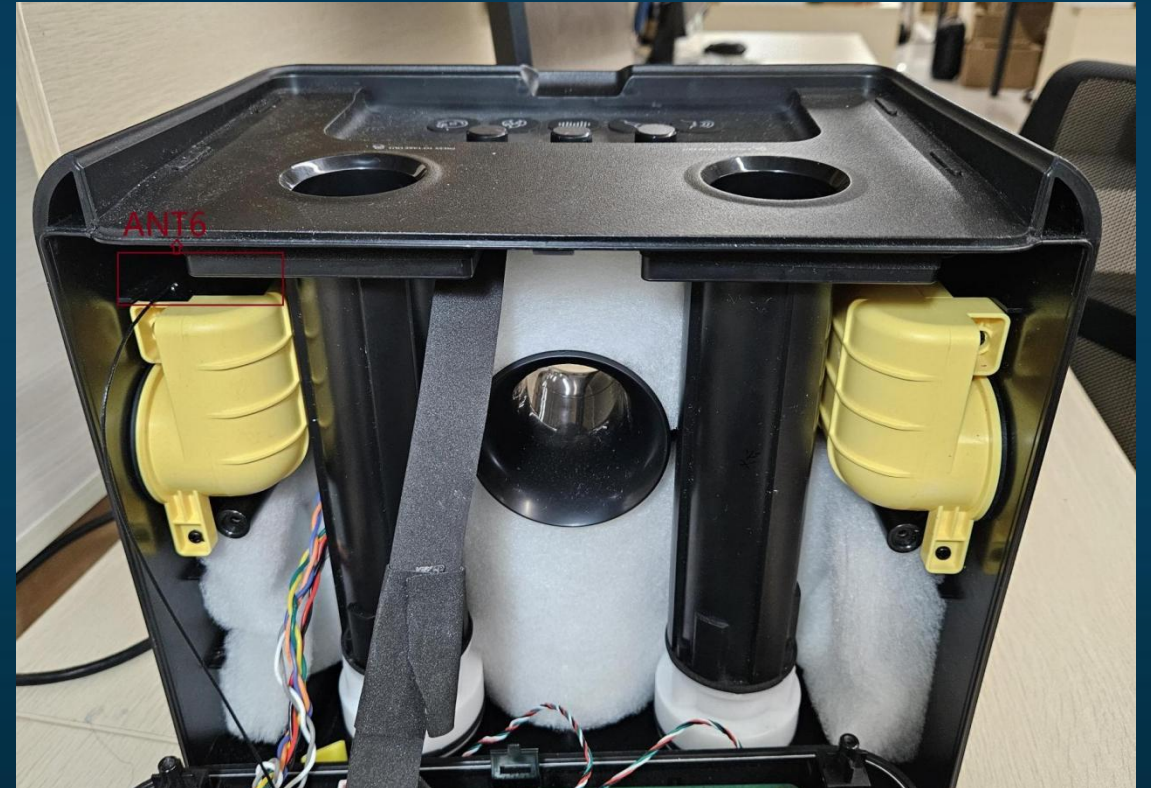
	Band	Frequency	TRP	TIS
802. 11b	1	2412	/	/
	7	2442	/	/
	13	2472	/	/

	Band	Frequency	TRP	TIS
802. 11a	149	5180	/	/
	157	5785	/	/
	165	5825	/	/

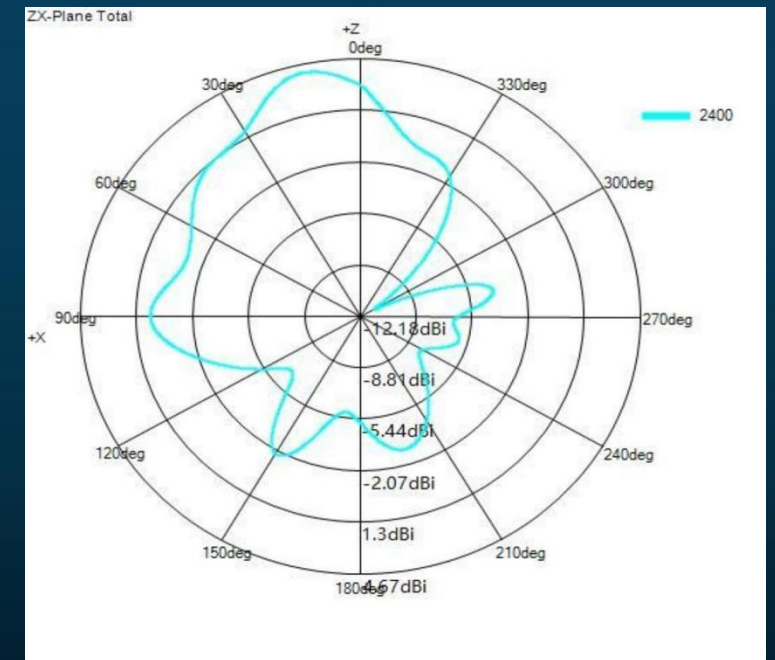
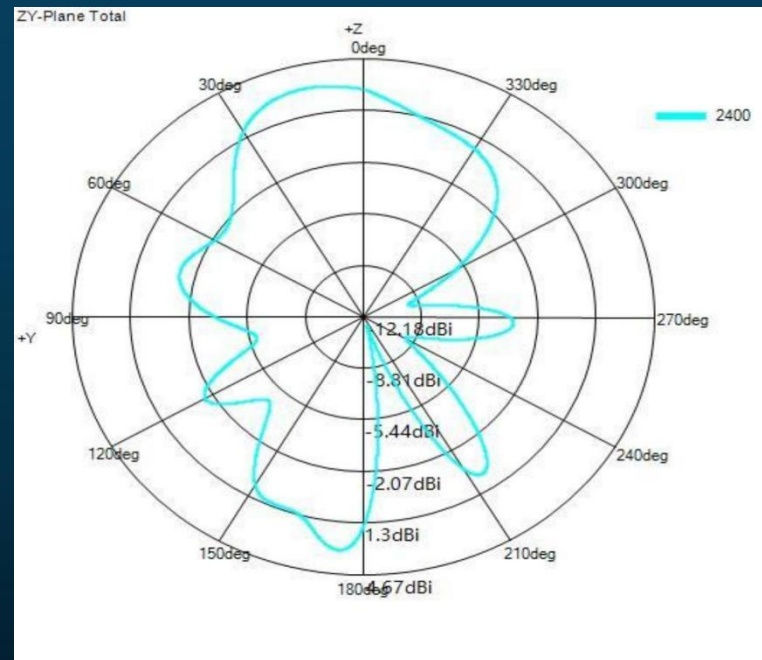
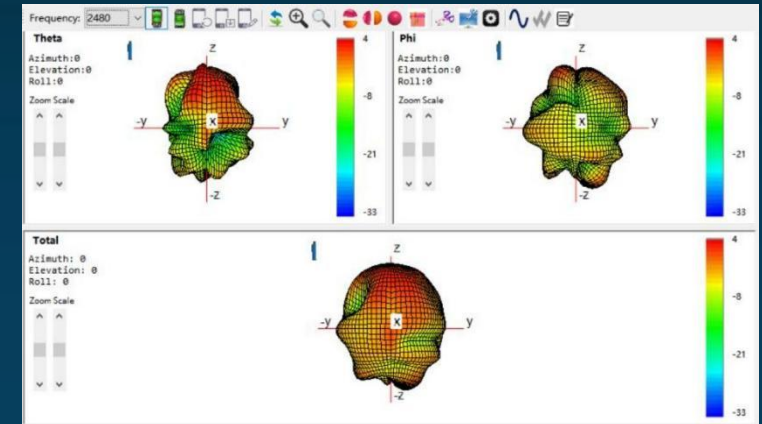
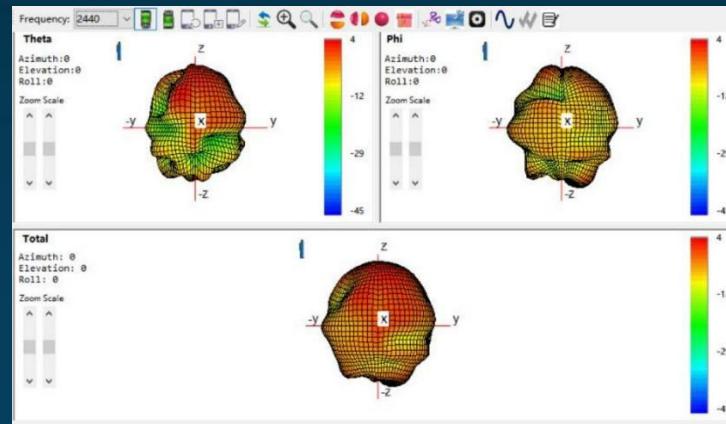
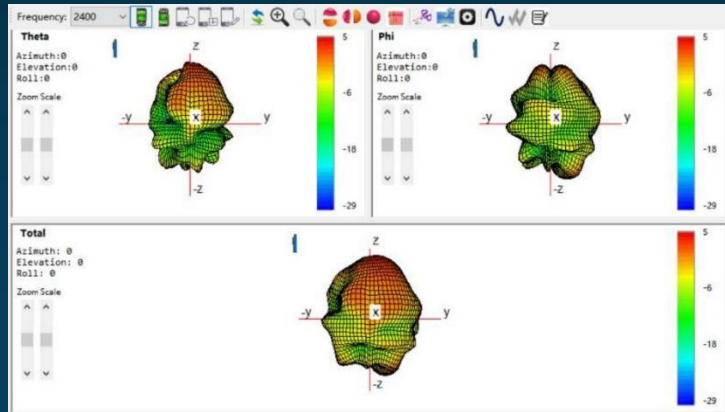
OTA DATA

Active testing			
SG24、CWM500			unit: dBm
Channel	TRP	TIS	Note
0	/	/	BT
39	/	/	
78	/	/	

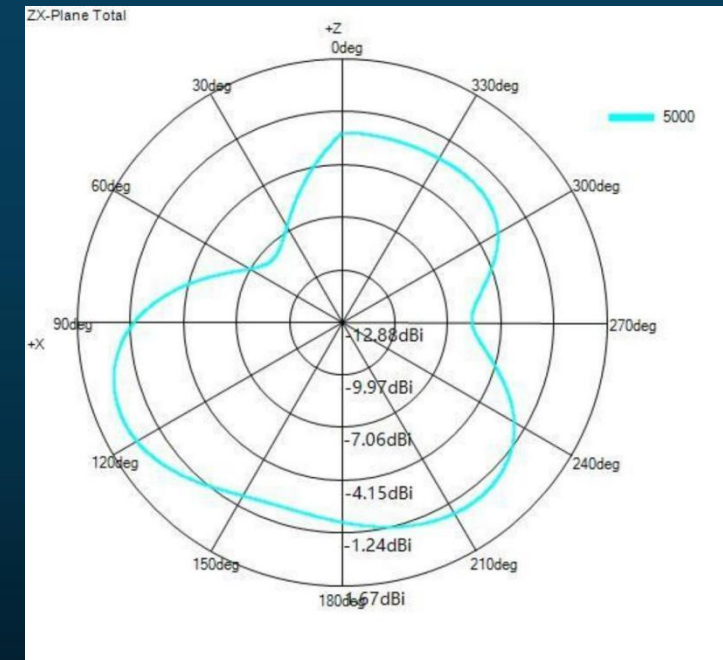
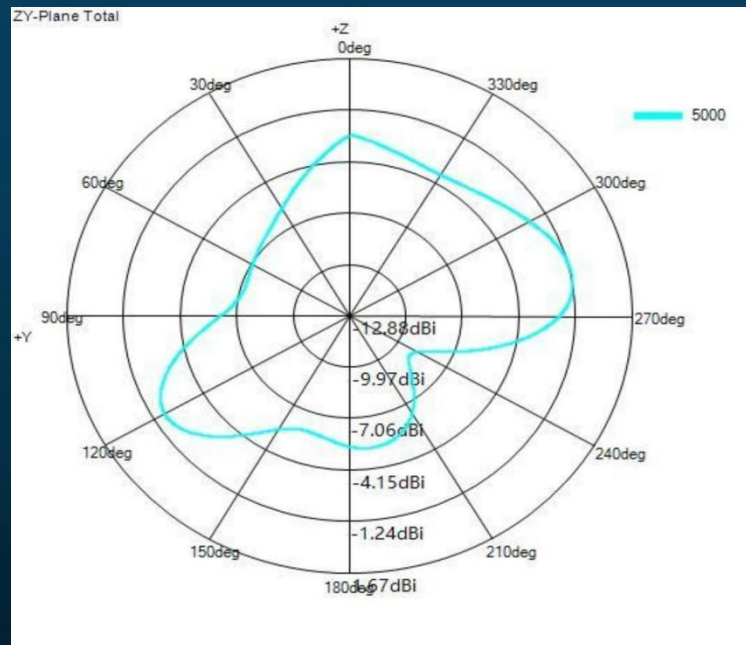
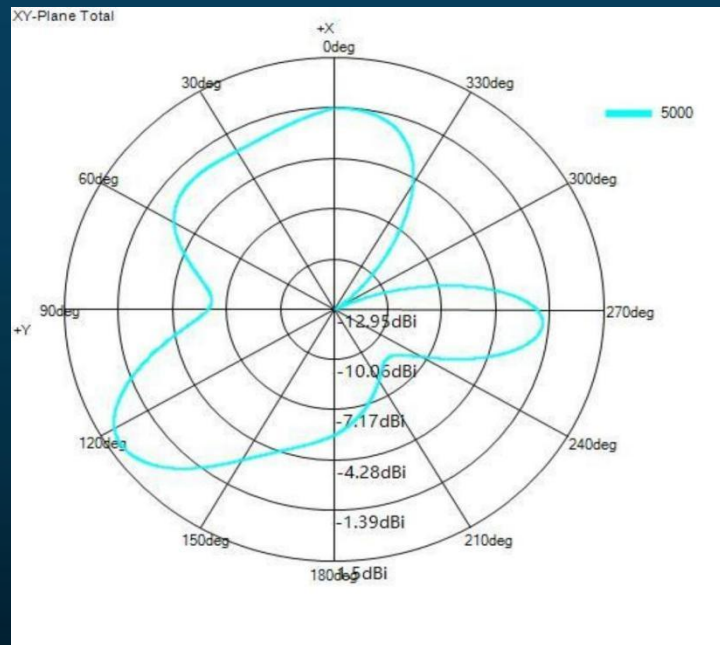
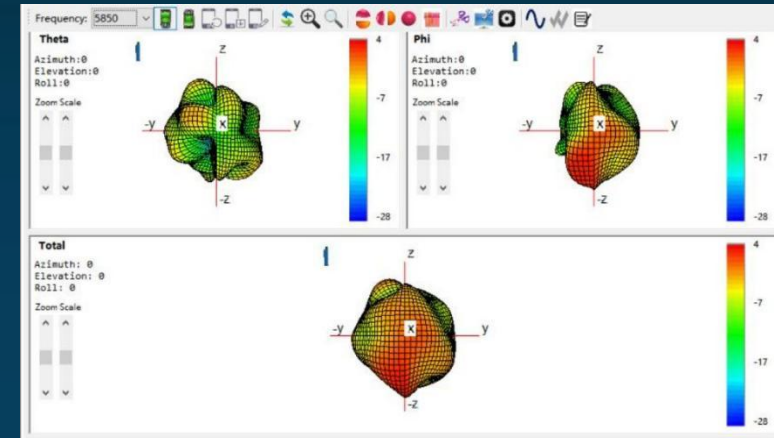
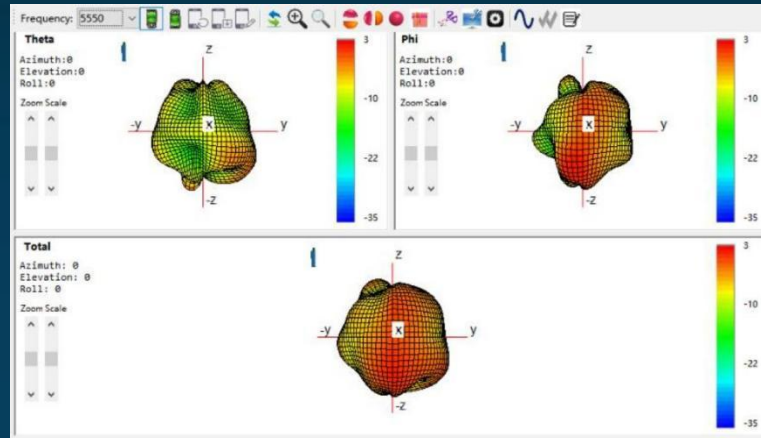
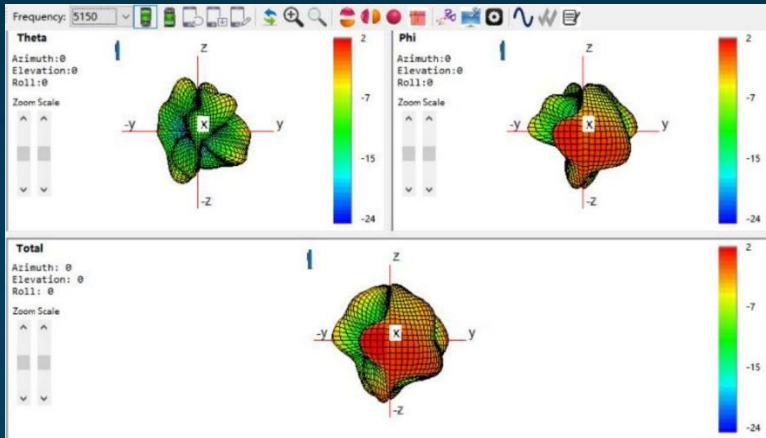
assembly



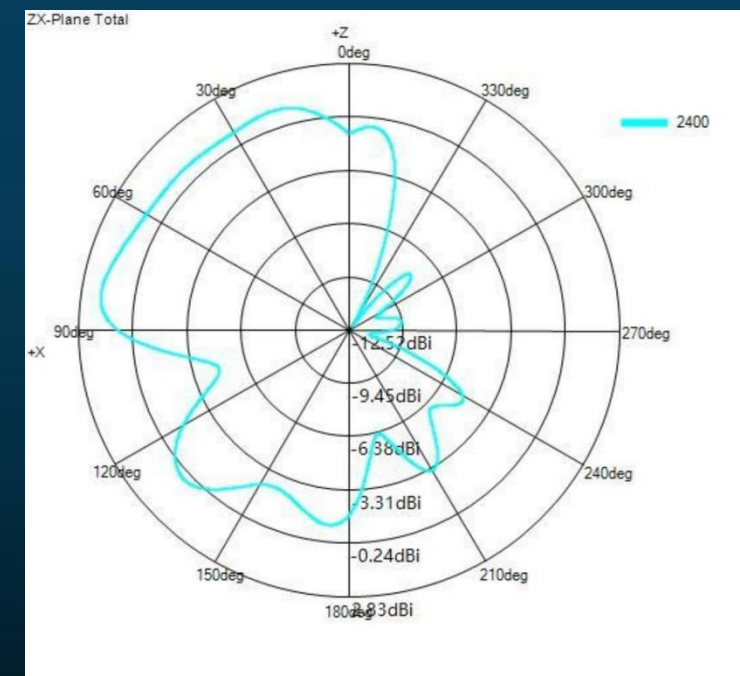
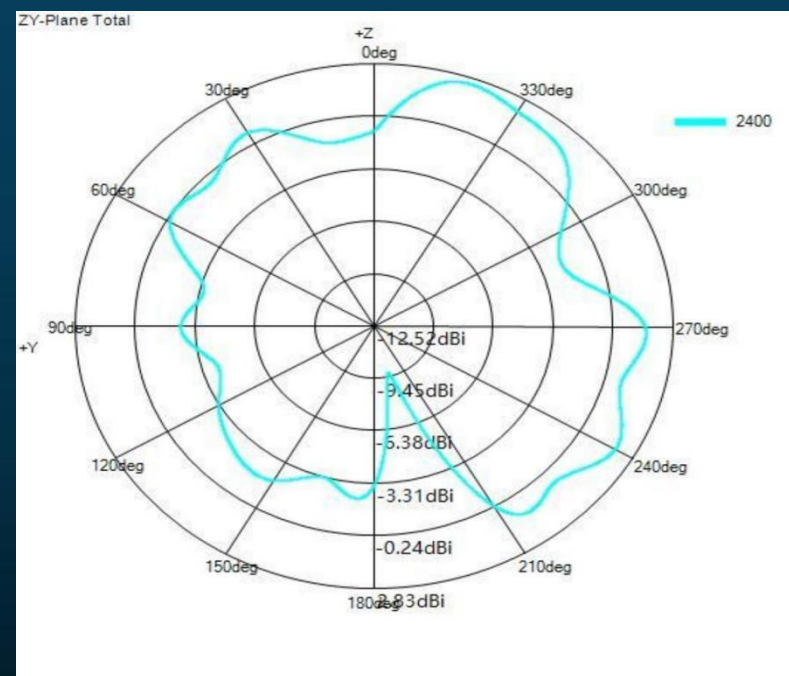
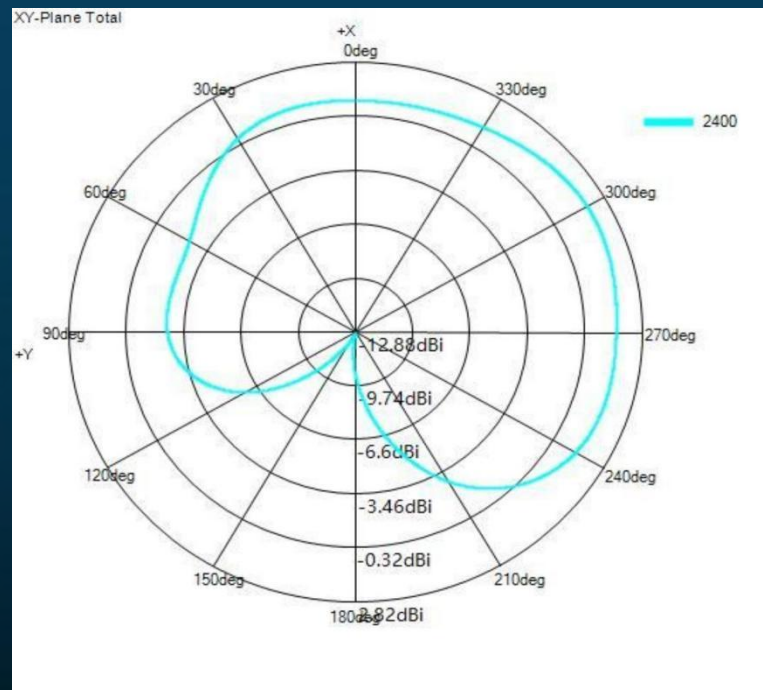
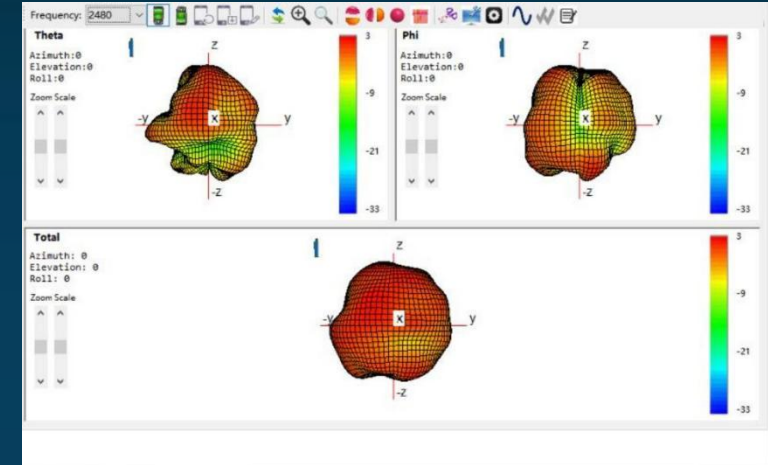
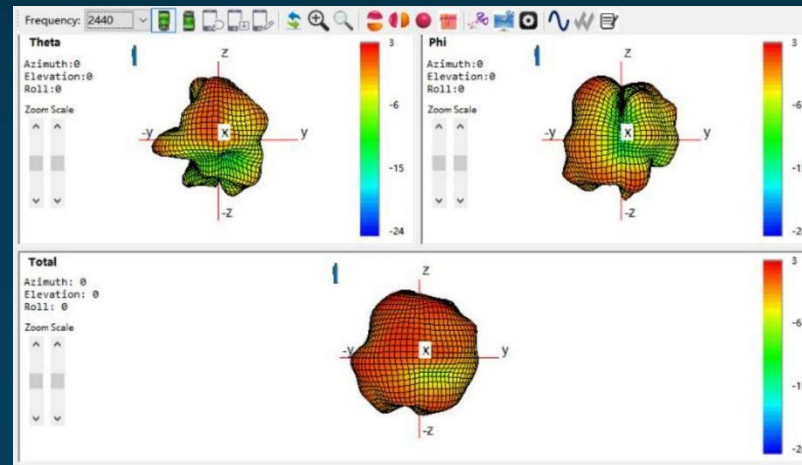
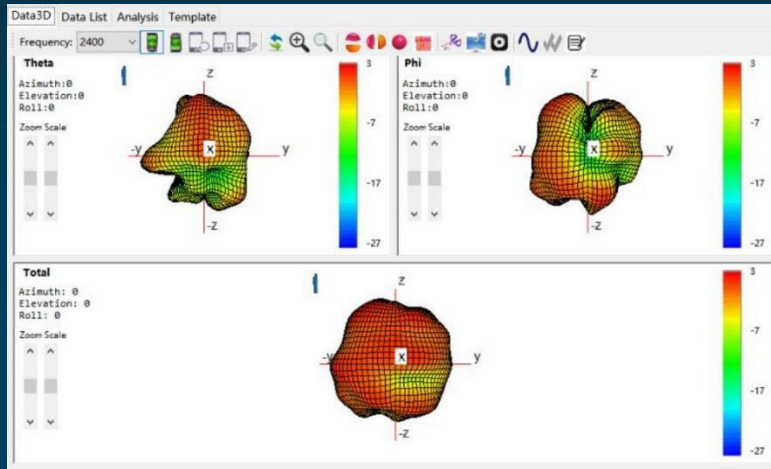
ANT1-2.4G



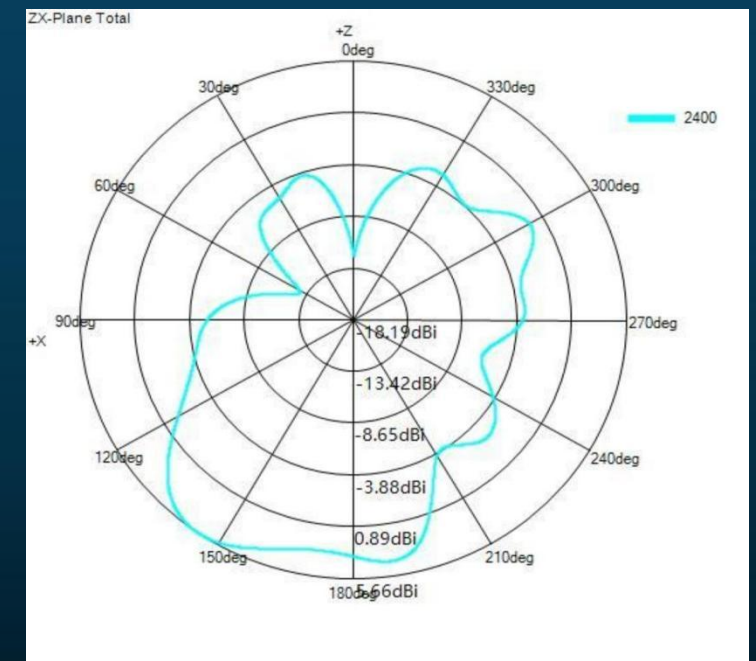
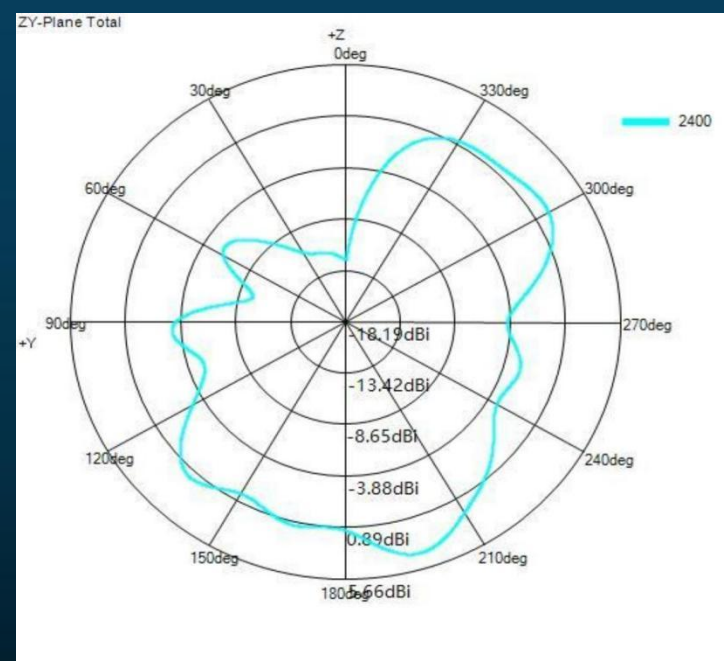
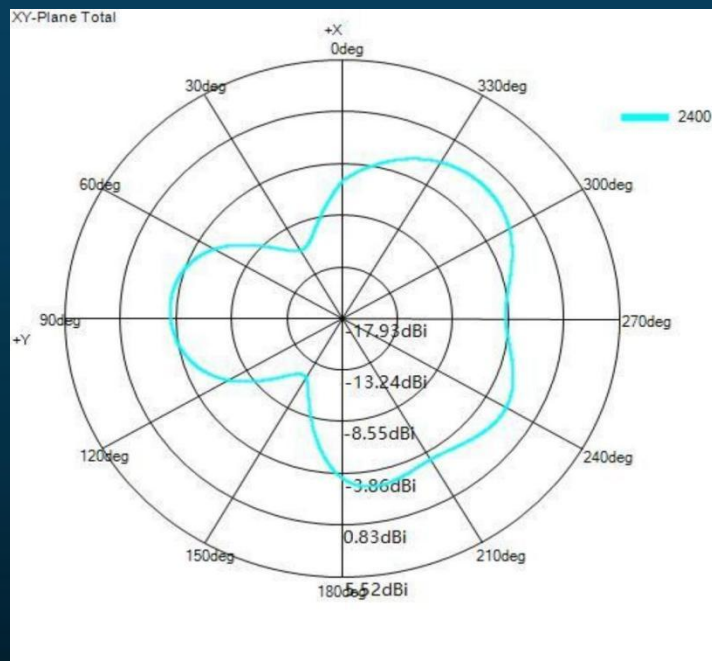
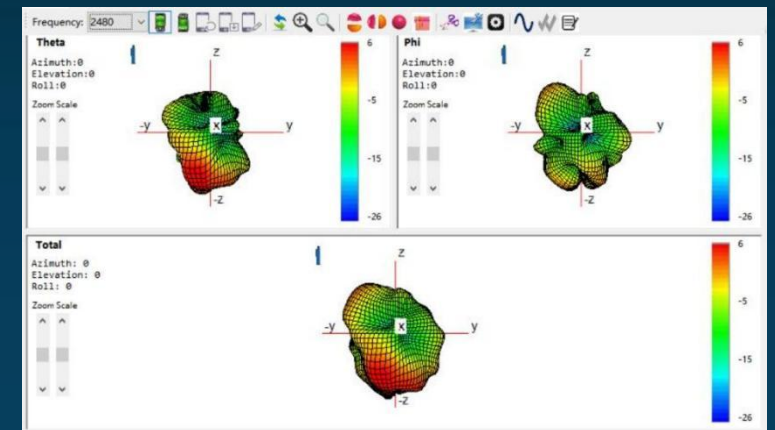
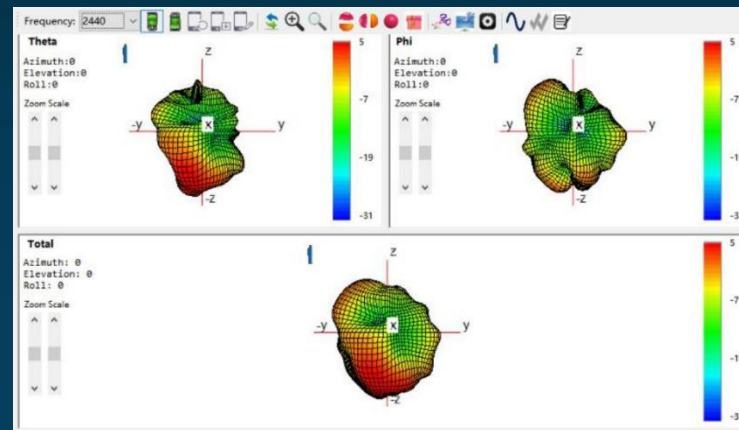
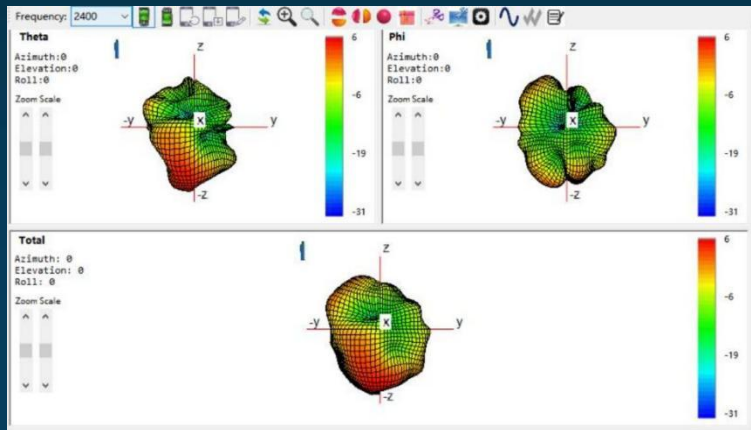
ANT1-5.8G



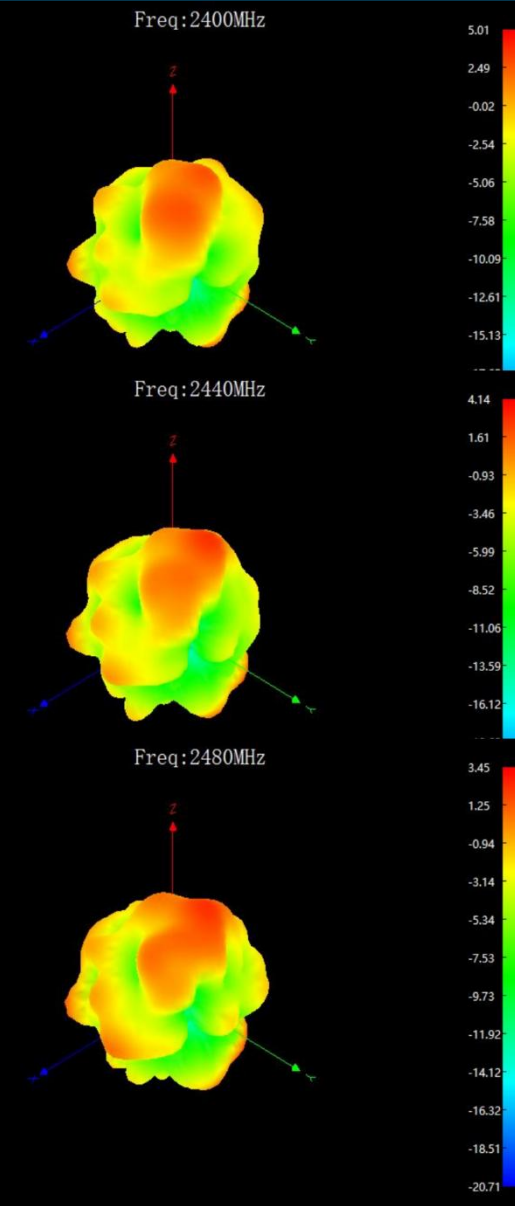
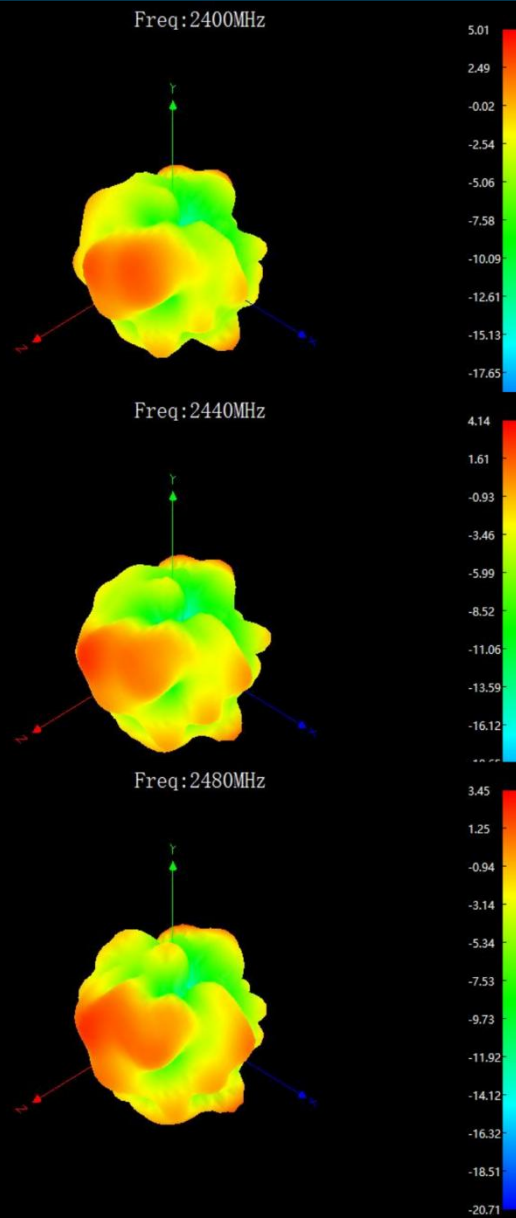
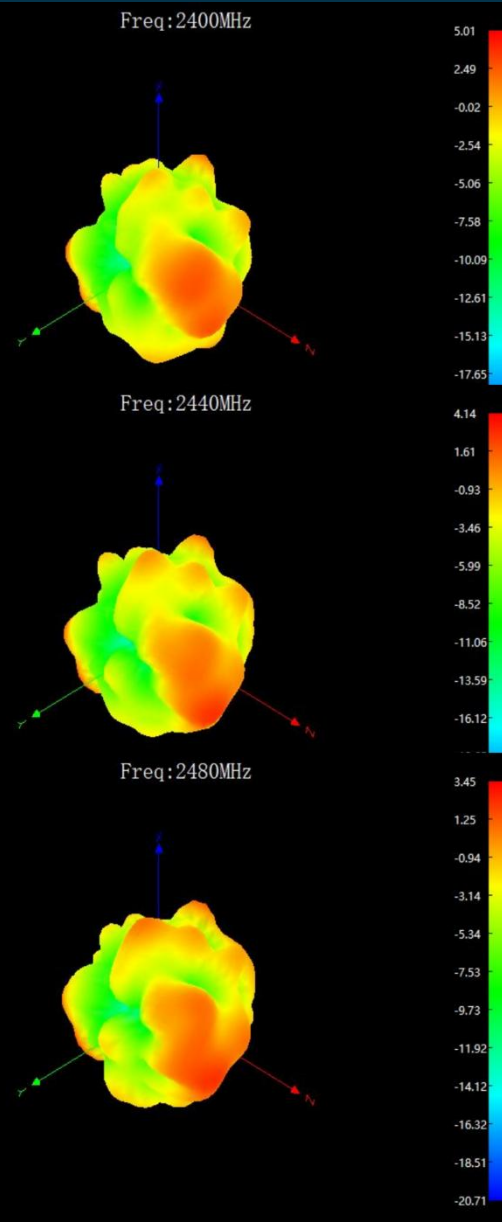
ANT4



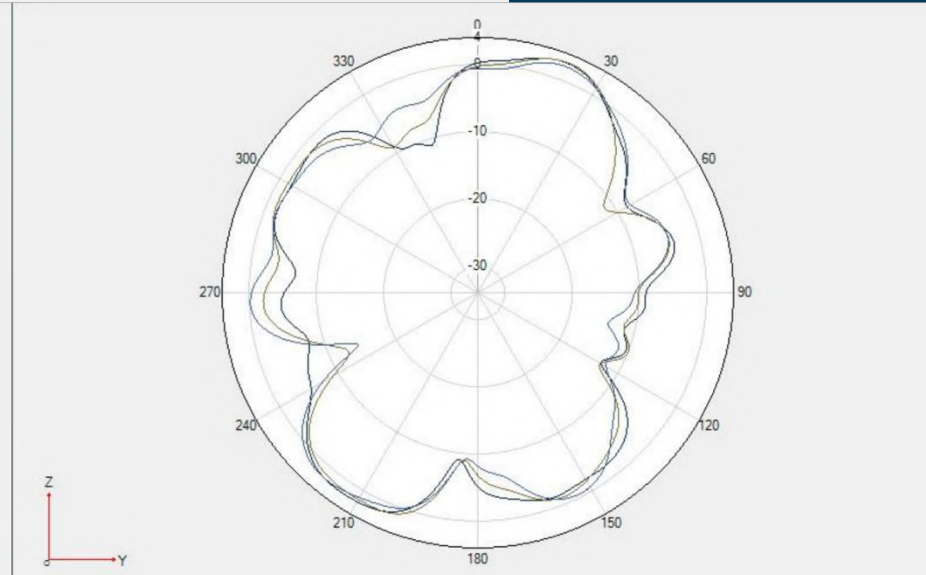
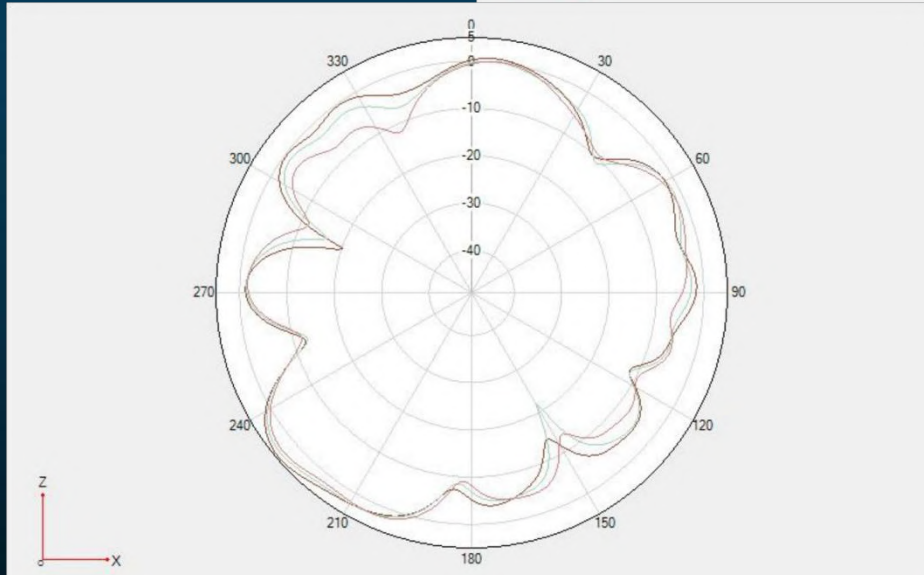
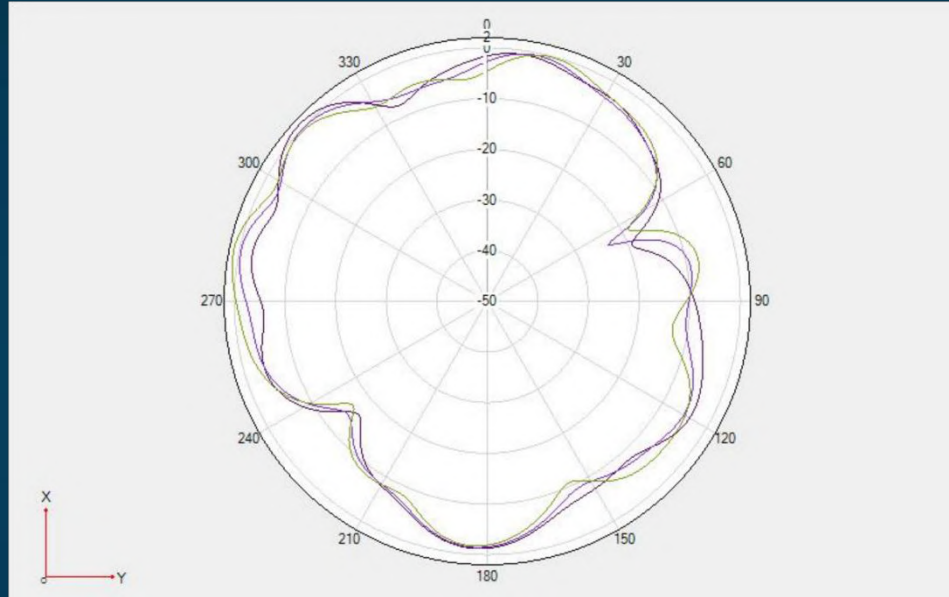
ANT5



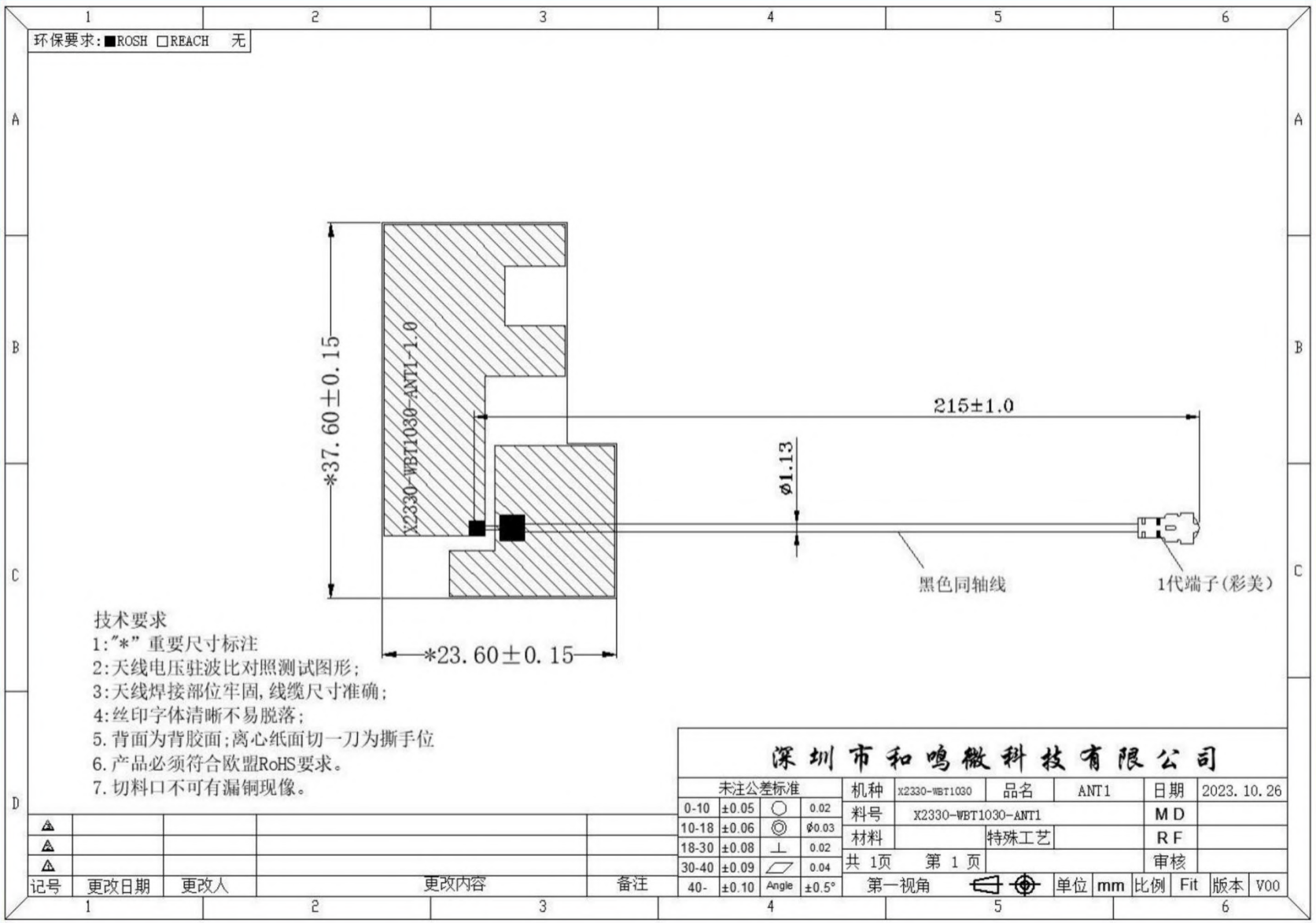
ANT6



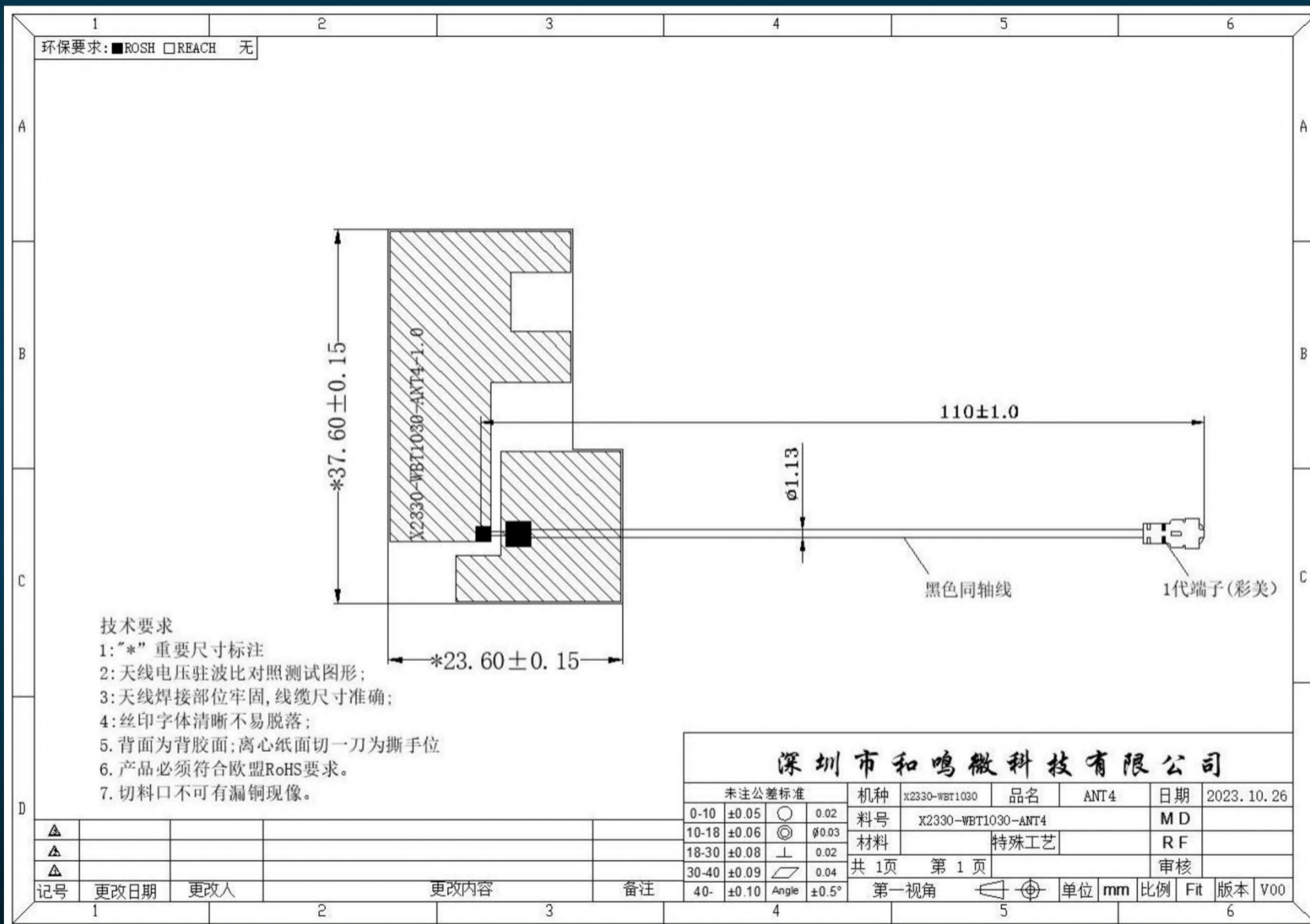
ANT6



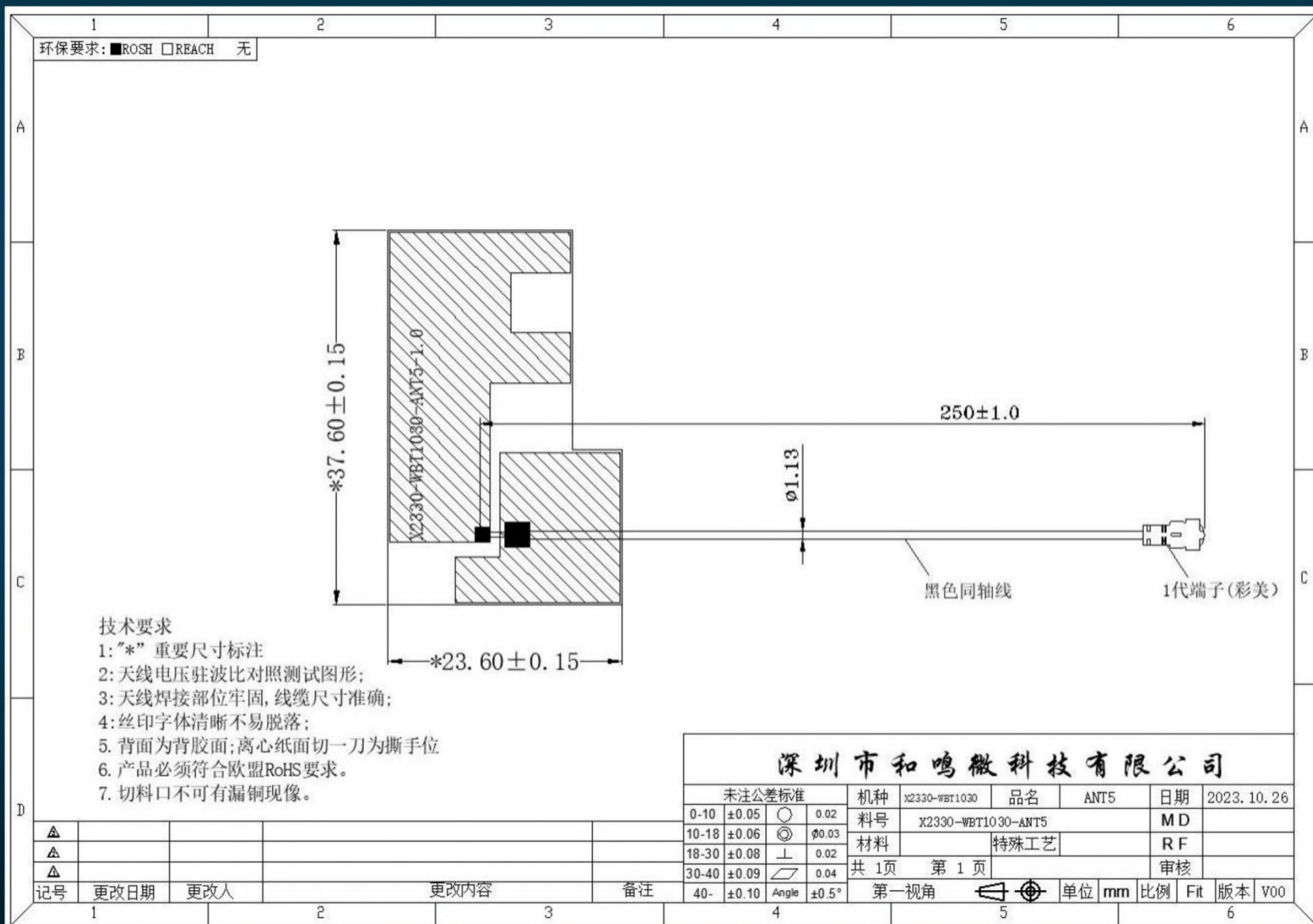
2D Dimensions ANT1



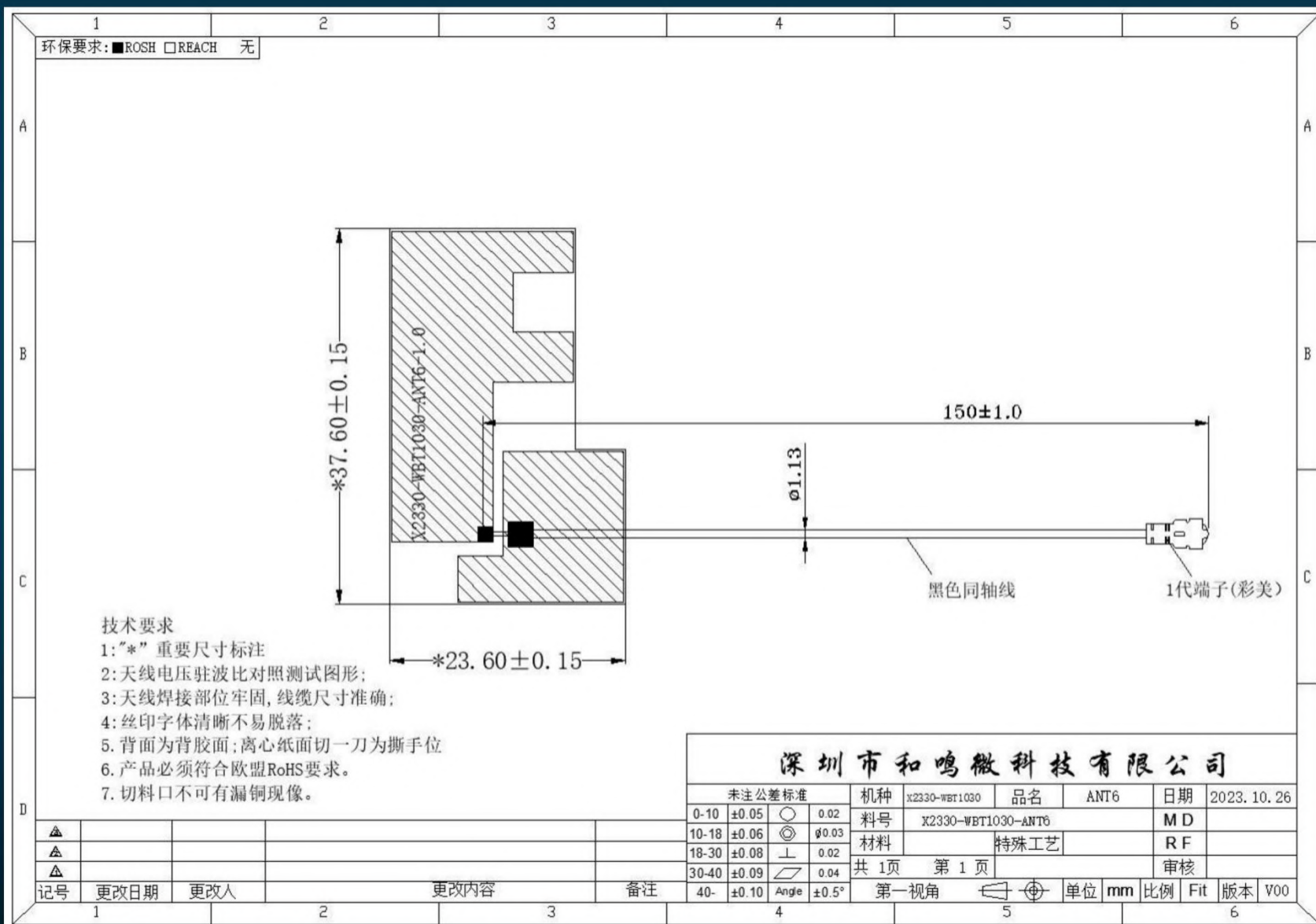
2D Dimensions ANT4



2D Dimensions ANT5



2D Dimensions ANT6





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