

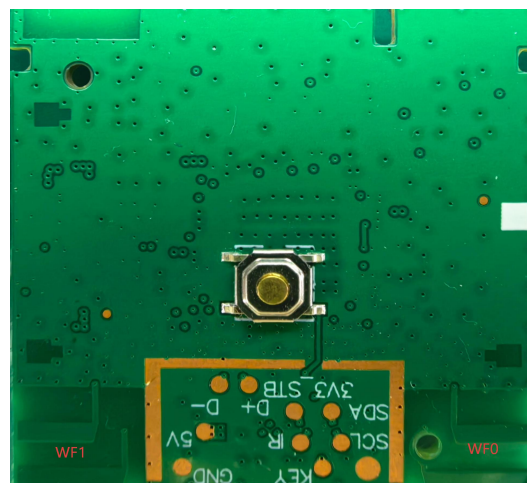
Antenna Test Report

Model name:	WKXT1AM2511
Frequency:	2.4、5GHz
Test Date:	2026.03.10
Purpose of testing:	Antenna Performance Testing
Prepared By:	Bao Haibin
Checked By:	Hou Dewei
Approved By:	Gao Zhao

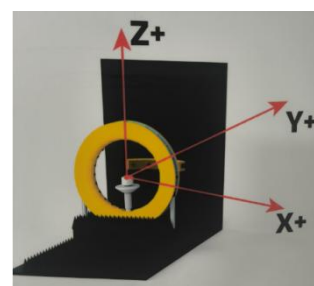
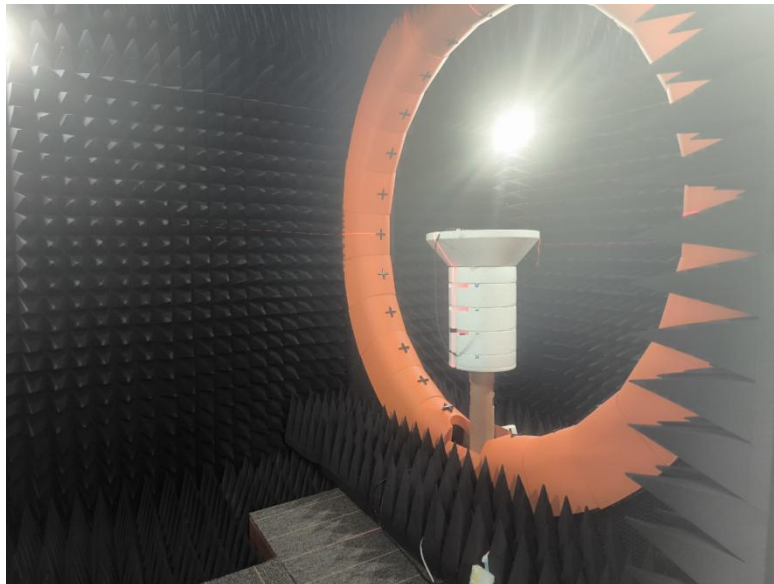
Revision history

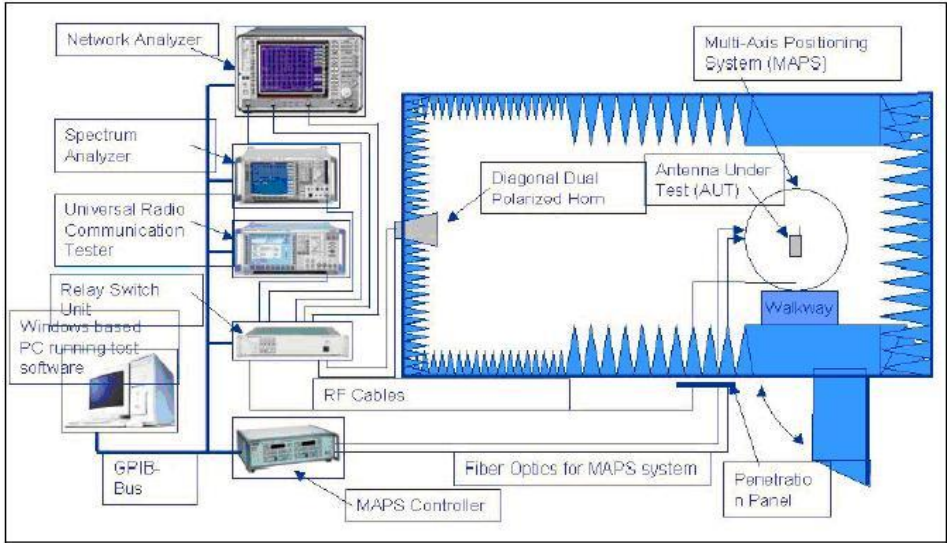
Version	Date	Revisions
V1.0	2026-03-10	Initial Issue

1.1 antenna type: PCB antenna



2、Test setup photos





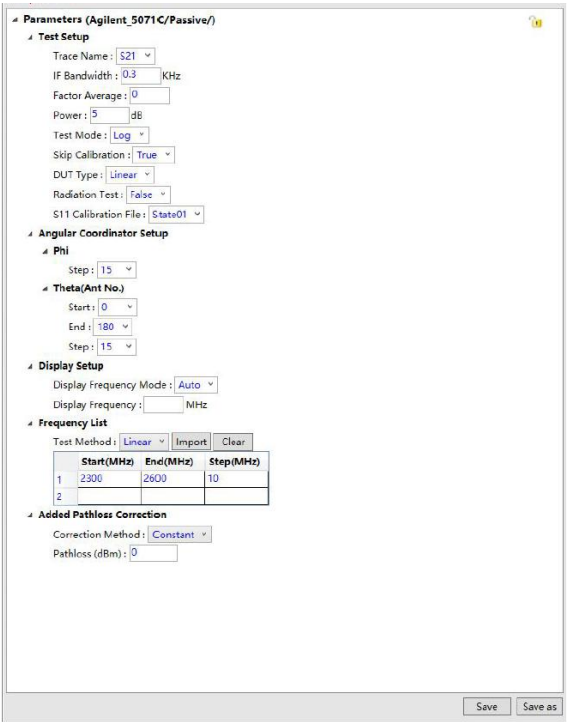
Equipment list	Equipment	Manufactu rer	Model	SN	Last cal.	Dul Date
	Network analyzer	Keysight	E5071C	MY47002902	2025. 04. 01	2026. 03. 30
	CMW500 antenna system	GTS	1800	/	2025. 04. 01	2026. 03. 30

Manufacturer: Huizhou Gaoshengda Technology Co., Ltd.

Testing agency: SHENZHEN HANYANG ANTENNA DESIGN CO.LTD.

Test Standard: General Standard

Test Procedure:



3、Antenna VSWR ($\leq 2\text{dB}$)

WFO



WF1

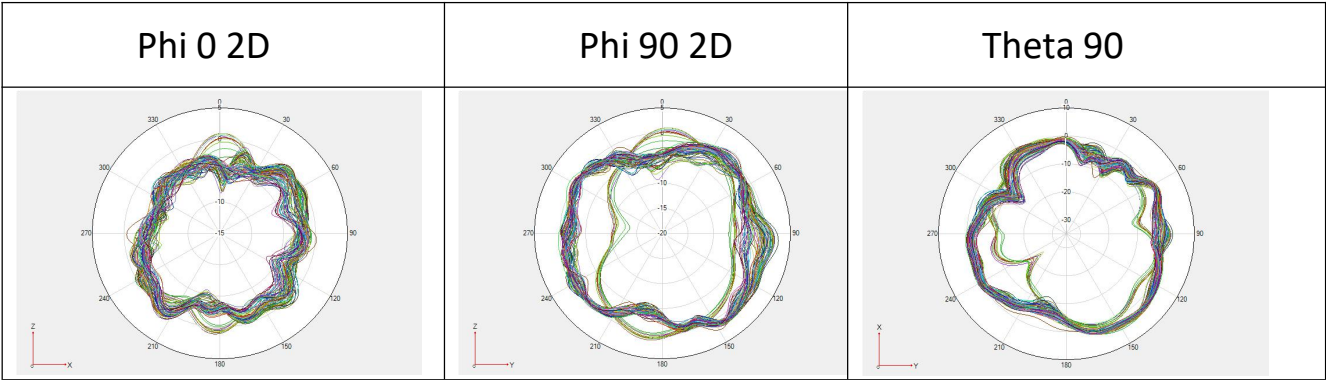


BT

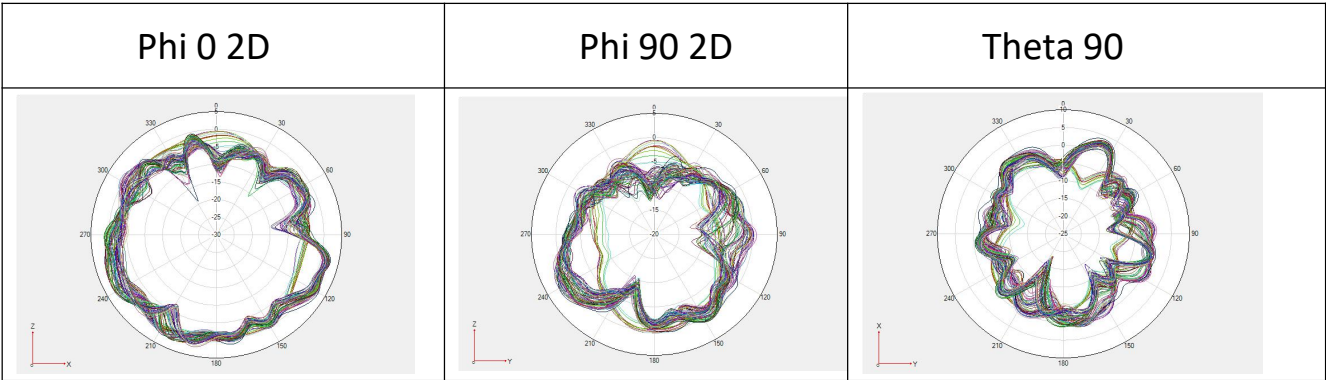


4、Pattern

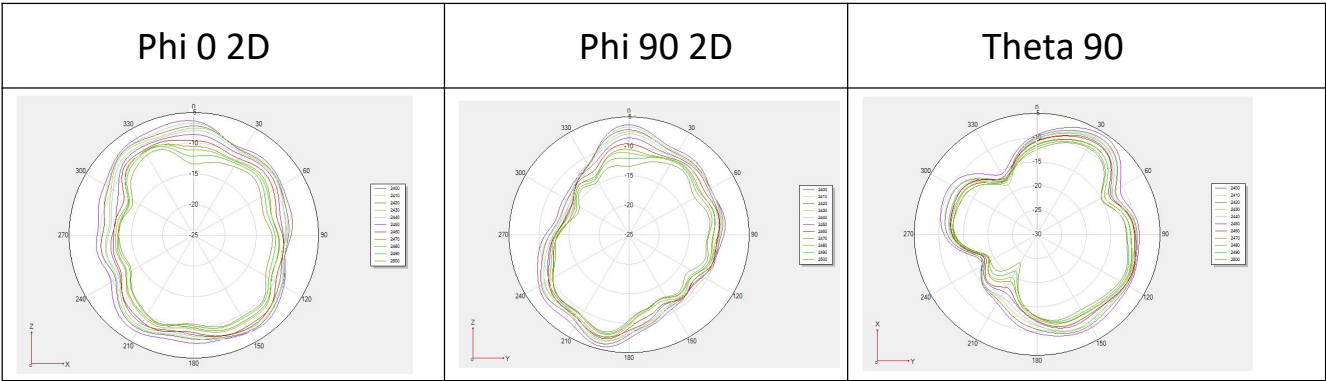
WFO



WF1

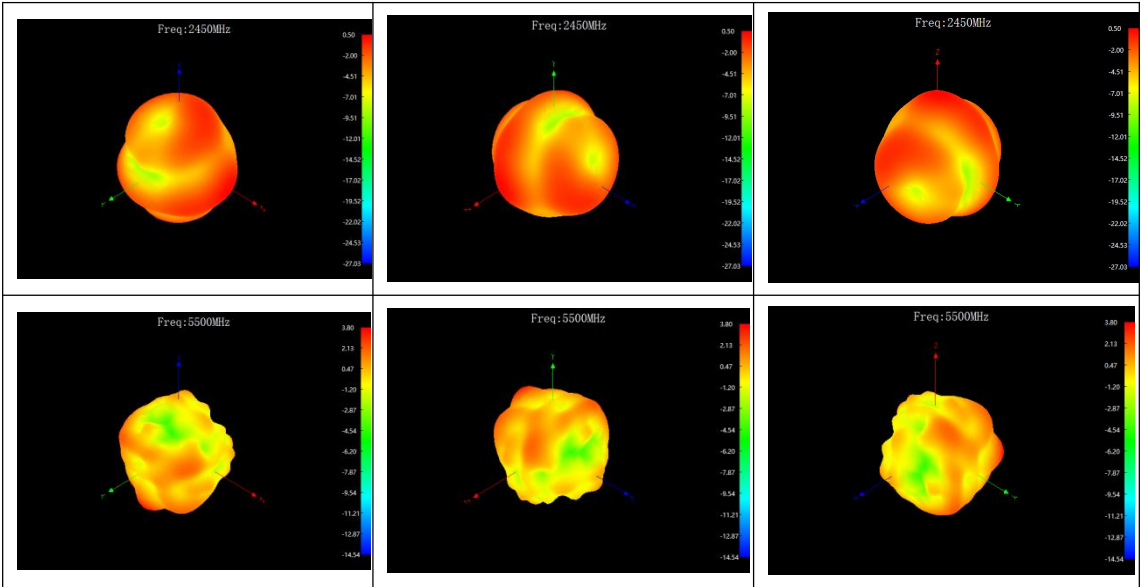


BT

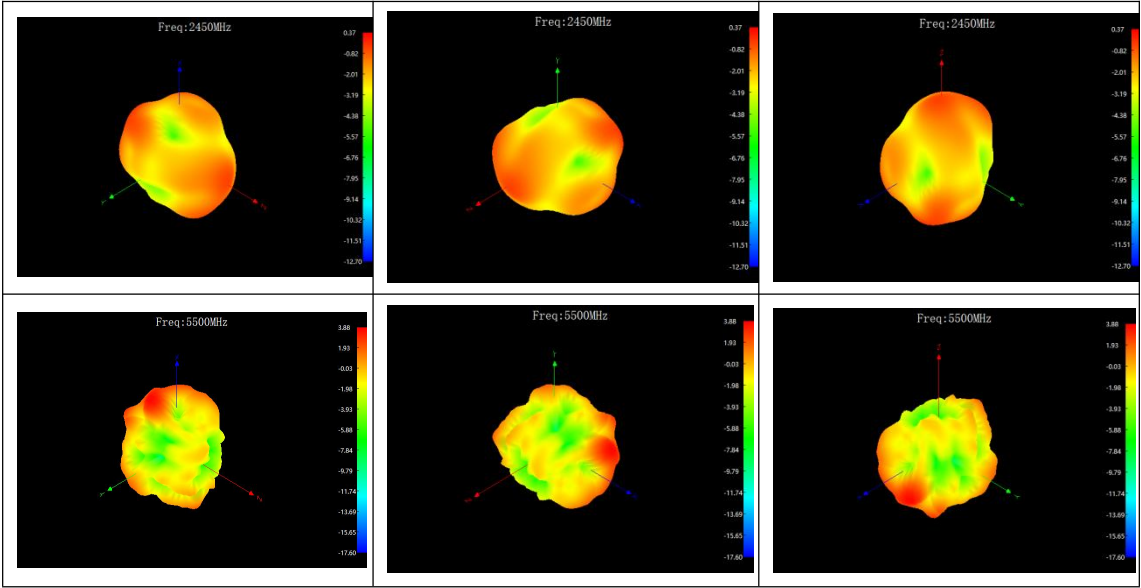


5、 3D Etotal

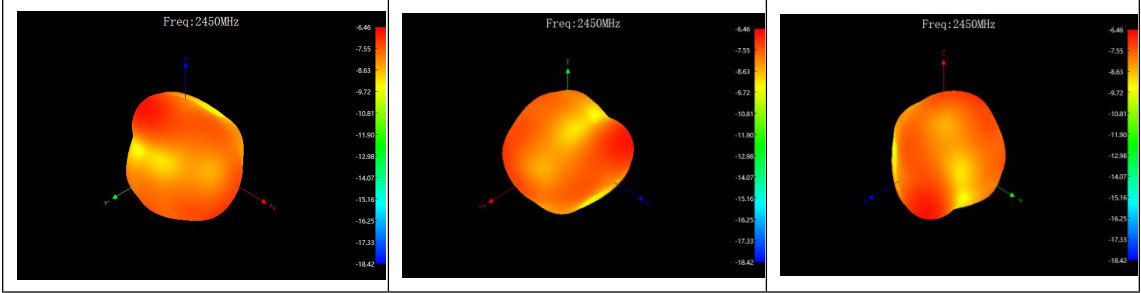
WF0 3D



WF1 3D



BT 3D



6、Antenna Gain

WFO

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	0.86	37.33
2410	0.88	37.33
2420	1.48	41.02
2430	1.1	40.27
2440	1.26	41.59
2450	0.5	38.46
2460	1.03	41.98
2470	0.85	42.76
2480	1.1	43.45
2490	0.31	38.02
2500	0	35.16
5150	2.45	69.66
5160	2.07	68.87
5170	2.04	69.5
5180	2.85	67.92
5190	2.5	70.47
5200	2.84	71.78
5210	2.47	70.63
5220	2.97	67.14
5230	2.8	69.5
5240	2.54	67.92
5250	2.44	69.98
5260	2.18	68.71
5270	2.56	71.12
5280	2.12	70.47
5290	2.24	70.47
5300	2.84	71.45
5310	2.36	71.45
5320	2.4	70.79
5330	2.56	69.18
5340	2.71	67.61
5350	2.74	67.76
5360	2.58	69.02
5370	2.49	70.15
5380	2.1	65.16
5390	2.35	68.39
5400	2.06	66.83
5410	2.3	67.76
5420	2.47	69.98

5430	2.18	71.29
5440	2.98	72.61
5450	2.34	74.13
5460	2.46	72.44
5470	2.74	72.44
5480	2.06	74.13
5490	2.19	69.82
5500	2.8	64.71
5510	2.18	66.83
5520	2.33	62.37
5530	2.83	64.42
5540	2.75	62.66
5550	2.74	66.83
5560	2.24	68.55
5570	2.83	75.68
5580	2.02	71.94
5590	2.12	72.78
5600	2.56	63.1
5610	2.3	61.09
5620	2.57	63.68
5630	2.01	67.3
5640	2.29	66.53
5650	2.46	62.09
5660	2.76	62.52
5670	2.52	64.42
5680	2.2	66.83
5690	2.01	67.61
5700	2.76	64.57
5710	2.12	62.09
5720	2.44	61.8
5730	2.75	65.77
5740	2.6	65.46
5750	2.5	67.3
5760	2.55	63.39
5770	2.95	63.1
5780	2.79	61.24
5790	2.07	64.42
5800	2.41	57.81
5810	2.48	59.84
5820	2.23	56.49
5830	2.52	63.53
5840	2.46	66.68
5850	2.73	74.47

WF1

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	0.48	38.02
2410	0.46	37.84
2420	1.12	41.11
2430	0.79	39.9
2440	1.07	41.4
2450	0.37	37.58
2460	1	40.18
2470	0.71	39.26
2480	0.82	38.28
2490	-0.11	32.73
2500	-0.33	30.41
5150	2.39	57.28
5160	2.81	55.59
5170	2.87	55.98
5180	2.7	55.08
5190	2.3	56.75
5200	2.05	55.46
5210	2.33	53.09
5220	2.78	50.93
5230	2.68	53.95
5240	2.82	53.21
5250	2.3	54.95
5260	2.87	54.08
5270	2.07	55.59
5280	2.27	56.75
5290	2.24	56.36
5300	2.25	57.68
5310	2.02	57.28
5320	2.87	56.62
5330	2.06	55.46
5340	2.6	53.46
5350	2.08	52.12
5360	2.23	52.72
5370	2.27	55.85
5380	2.67	52.48
5390	2.55	58.21
5400	2.34	56.89
5410	2.81	57.68
5420	2.78	56.1
5430	2.33	58.08
5440	2.4	61.38

5450	2.56	61.94
5460	2.62	60.81
5470	2.11	61.8
5480	2.53	66.68
5490	2.17	60.67
5500	2.88	55.21
5510	2.01	53.95
5520	2.38	49.77
5530	2.91	51.4
5540	2.71	48.75
5550	2.87	51.05
5560	2.82	52.6
5570	2.95	58.88
5580	2.85	57.02
5590	2.02	57.41
5600	2.43	48.53
5610	2.44	46.34
5620	2.63	48.31
5630	2.58	52
5640	2.32	50.93
5650	2.49	44.87
5660	2.74	45.08
5670	2.23	44.98
5680	2.01	46.13
5690	2.99	48.08
5700	2.85	45.92
5710	2.72	42.76
5720	2.88	41.3
5730	2.71	43.55
5740	2.72	42.95
5750	2.57	45.19
5760	2.37	42.85
5770	2.41	41.98
5780	2.38	40.93
5790	2.34	43.35
5800	1.56	37.76
5810	2.08	39.36
5820	2.15	37.33
5830	2.16	42.46
5840	2.05	45.71
5850	2.76	53.46

BT Gain

BT		
Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	2.17	27.99
2410	1.86	23.77
2420	1.67	22.75
2430	1.37	20.89
2440	1.8	23.01
2450	1.72	22.28
2460	1.68	22.54
2470	1.02	19.68
2480	0.92	19.1
2490	0.54	18.16
2500	1.14	20.37