

FN-LINK TECHNOLOGY Ltd.

承 认 书

CUSTOMER APPROVED BY

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antenna testing

Customer	Wan Hui
Project Name	KP051
Customer NO.	
specification	The FPC antenna measures 21*9.7mm, with a wire length of 57mm and a wire diameter of 1.13. It is black, featuring the first-generation IPEX terminal with the opening facing down. KP051
Supplier NO.	0233010055
Specification NO.	
Write by	Wei Yuanji
REV.	Ver.1
Date	2025-8-11
Note	

Version change log				
Change date	Change content	version	Change person	Approved by

1. Recognition Letter Project Table (Index)

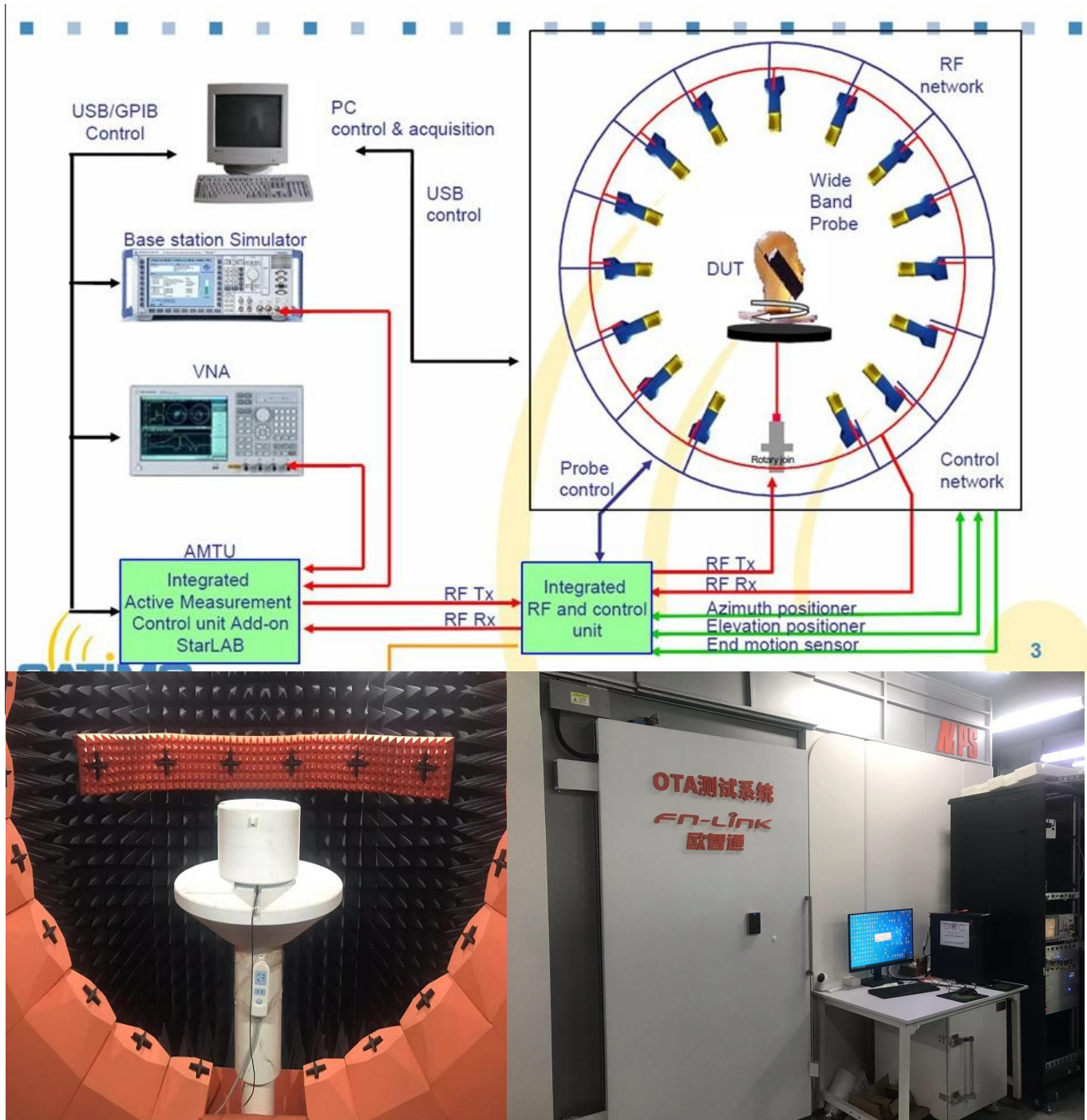
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(Test Equipment & Conditions)

1.1 . Network Analyzers : KEYSIGHT P5002A
1.2 . Communications Test Set: R&S CMW 500

1.3 . 3D Chamber Test System: (24 probe testing system)

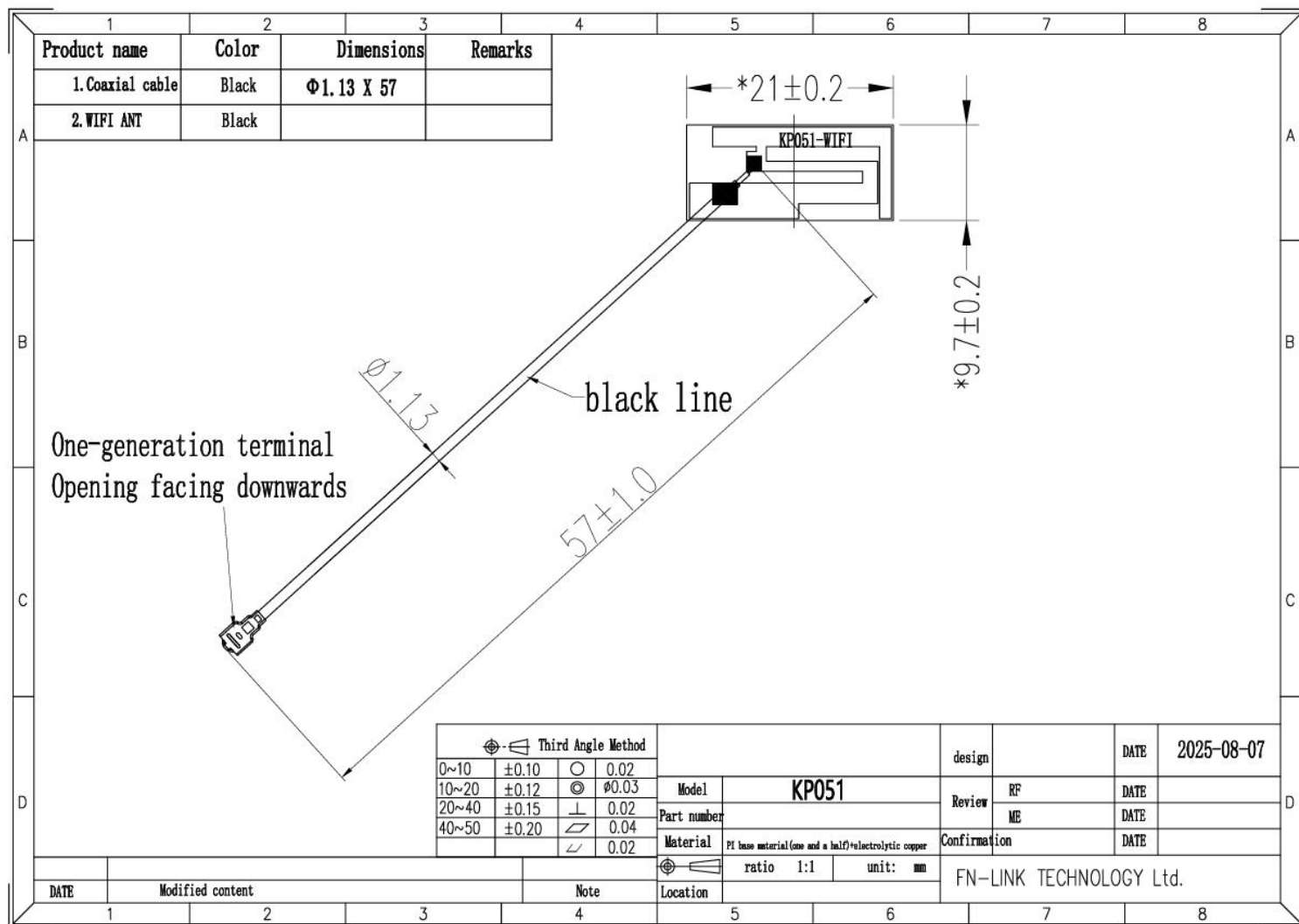
1. Testing principle diagram of microwave anechoic chamber



2. Explanation.

This report summarizes the electrical performance results of the antenna for the project, including the S11 parameters, Gain, and Efficiency of the antenna

Finished antenna diagram



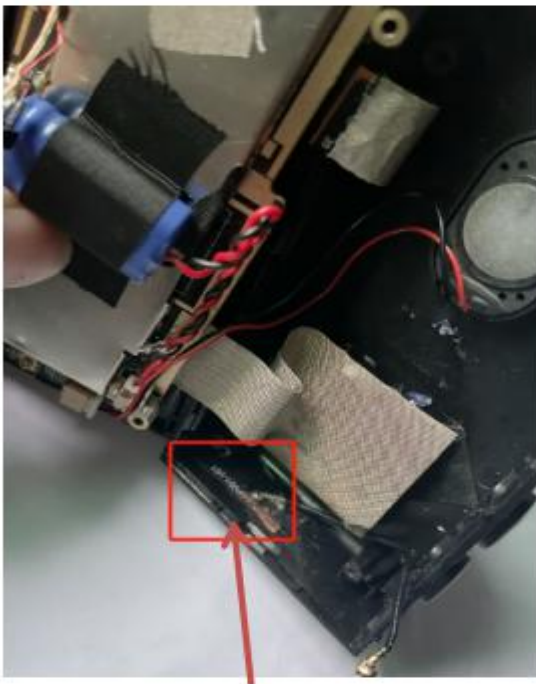
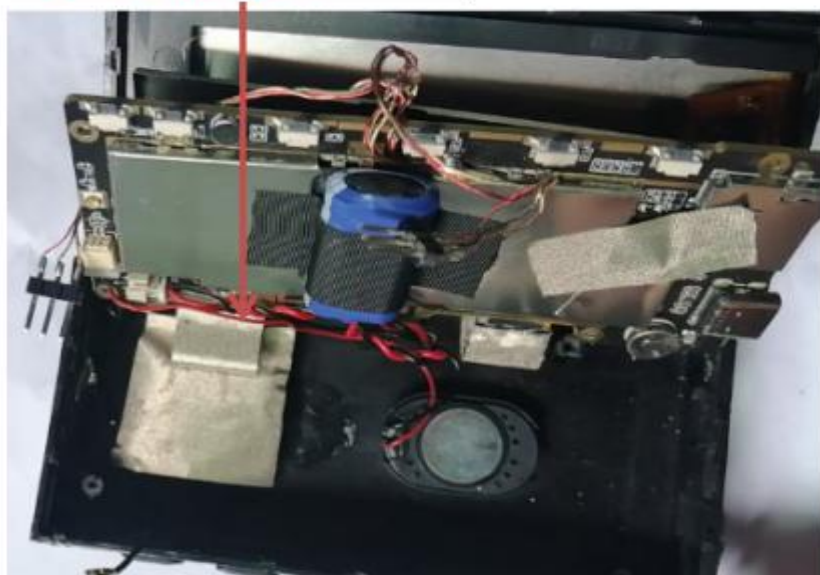
Directory

1. Overall machine description
2. Debug data reports
3. Test data

屏排线用导电布包起来

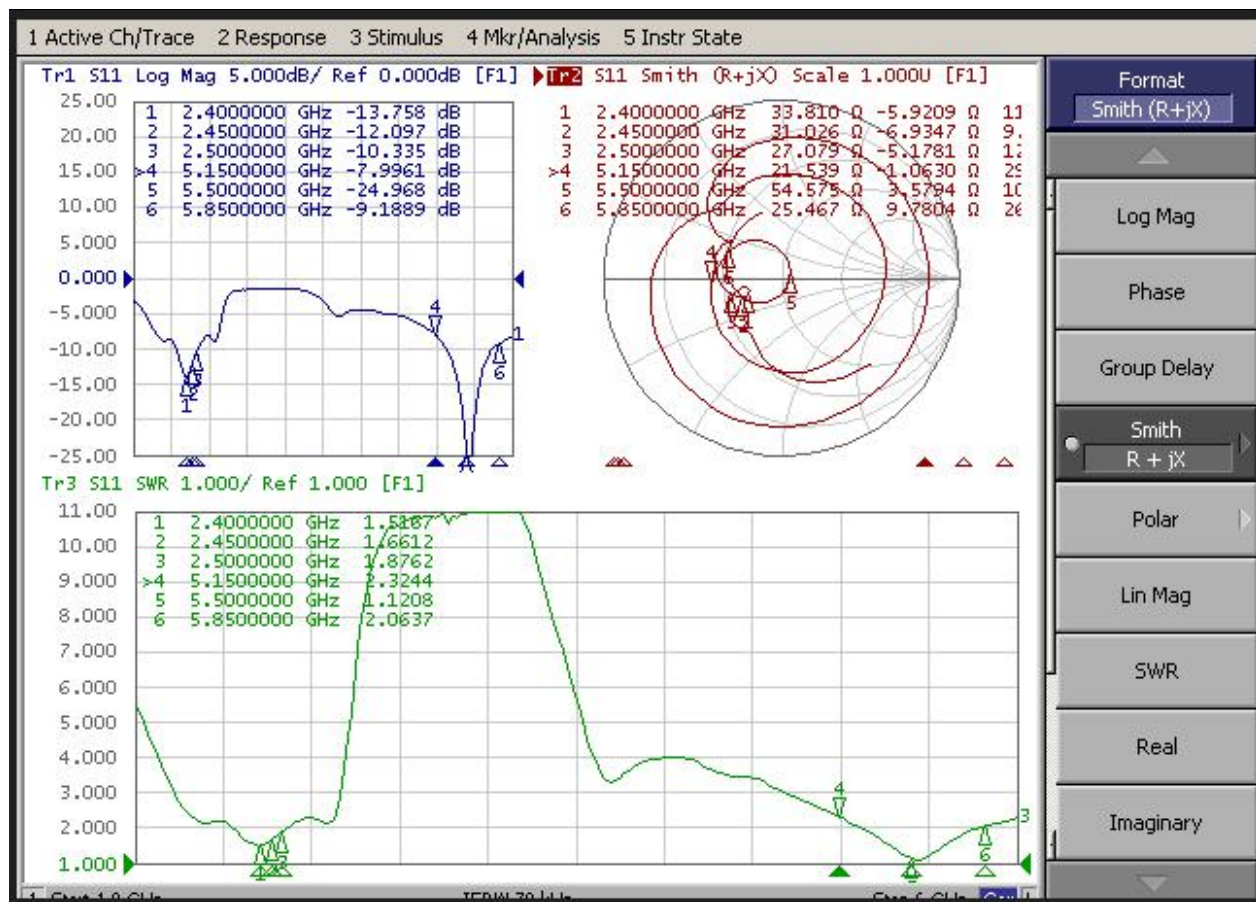


摄像头小板和排线用导电布包起来与主板接地



天线装配位

antenna S11

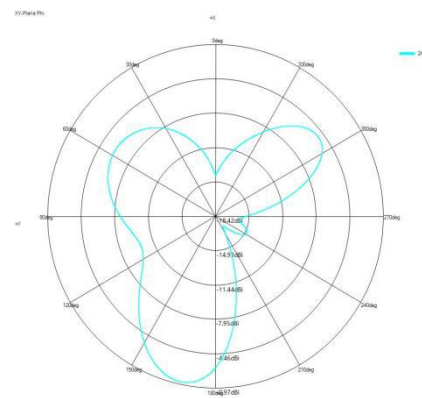
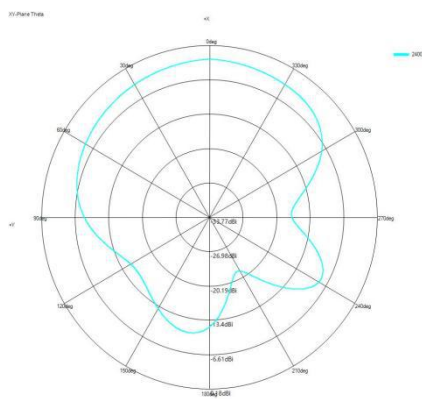
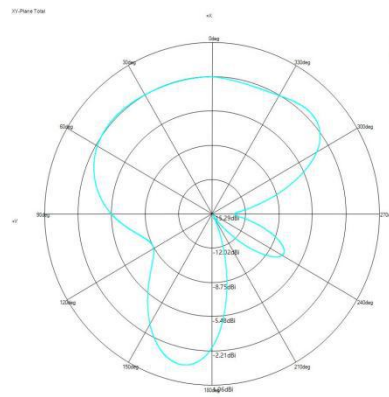
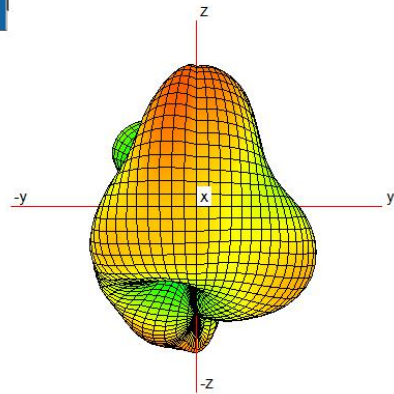


Freq/GHz	2400	2450	2500	5150	5500	5850
VSWR	1.5	1.6	1.8	2.3	1.1	2.0

WiFi antenna - Test data:

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.0169519	-3.371496402	46.00980152
2410	0.879735142	-3.50040862	44.66415664
2420	0.956548352	-3.729001346	42.37403933
2430	0.854274917	-3.643594908	43.21559624
2440	1.035388824	-3.662745222	43.0254556
2450	1.211357584	-3.661043165	43.04232115
2460	1.401143354	-3.576461672	43.88881275
2470	1.54899107	-3.534417964	44.31576019
2480	1.607999751	-3.474731272	44.92901245
2490	1.596407675	-3.468388681	44.99467631
2500	1.641341468	-3.435981573	45.33168295
Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
5150	0.477486926	-3.148858979	48.42995907
5200	0.730088189	-3.134367414	48.59183038
5250	1.328115024	-3.397265569	45.73760749
5300	1.854135793	-3.477563916	44.89971748
5350	2.183783856	-3.40644731	45.64101237
5400	1.650121993	-3.753891417	42.13188192
5450	1.693303863	-3.475278338	44.92335325
5500	0.672305798	-3.658389286	43.06863141
5550	0.722137794	-3.197352742	47.8921932
5600	0.883700488	-3.343654741	46.30570769
5650	1.137502226	-3.344027356	46.30173493
5700	2.192707137	-3.100395107	48.97342629
5750	2.809210338	-3.070057154	49.31673137
5800	2.898329093	-3.498775831	44.6809519
5850	2.346594762	-3.978383742	43.00936197

2450 MHZ antenna Apple diagram Direction diagram



5500 MHZ antenna Apple diagram Direction diagram

