

天线承认书

Parts Approval Sheet

Customer	Zhengdongxing	Project	Z86
Band	WiFi	Color	Black
PN	HZ1255	Version	V0
Customer material number	1030110028 Z86/Black FPC, Bright Character 0.81 Black Shielded Line, Line Length 25mm/HZ1255		

DATE: 2025/12/03

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
Li Yaona	Wang Hui	Zhang Lin	LiuJuan
Customer Confirm			

Environmentalrequirements: ☒ ROHS

☐ REACH

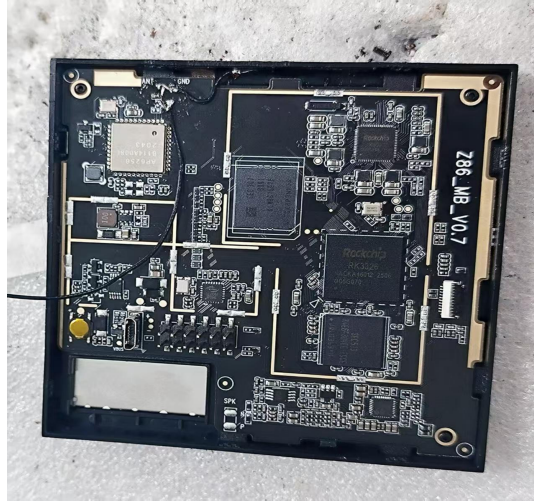
☐ none

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1. Summary

This report summarizes the electrical results of the our antenna to support the project **z86**
The test fixture is made for further testing, which is show below :



2. AntennaTestEquipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

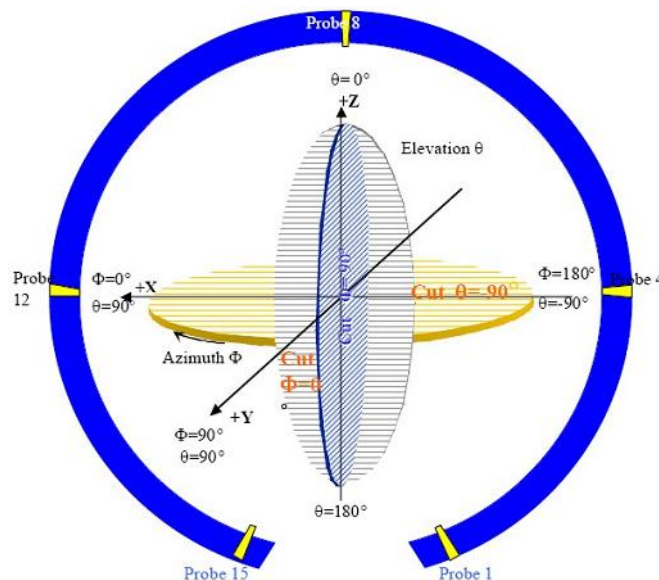
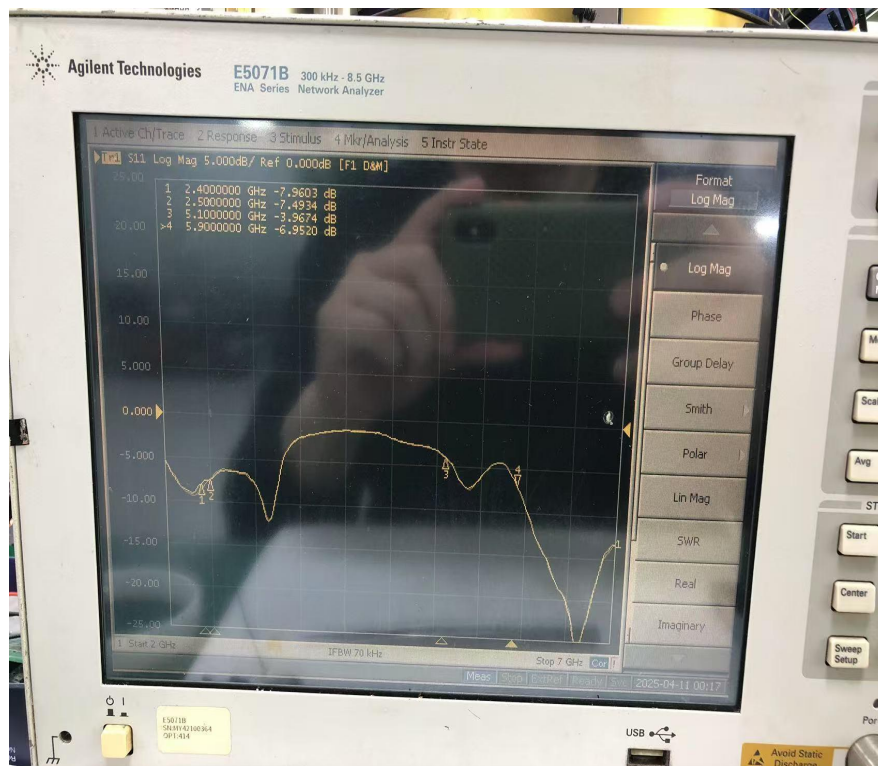


图4 3D 微波暗室测试坐标系 (back view)

3. Electrical Specification

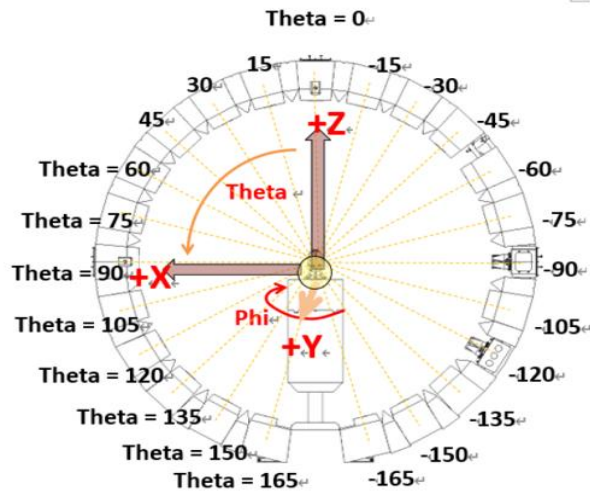
3.1 Passive S11 parameter

Measuring Method is a $50\ \Omega$ coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



4. 2.4G Gain&Efficiency

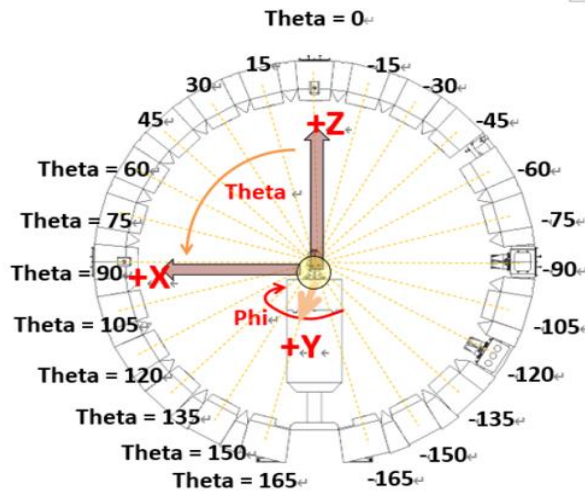
Sample status & coordinates



Froequency (MHz)	Efficiency (%)	Gain (dBi)
2400	37.57	1.94
2410	35.58	1.78
2420	34.69	1.71
2430	36.95	2.02
2440	39.35	2.35
2450	41.51	2.6
2460	41.38	2.59
2470	41.43	2.58
2480	43.74	2.68
2490	48.98	2.95
2500	50.92	2.99

4.1 5.8G Gain&Efficiency

Sample status & coordinates

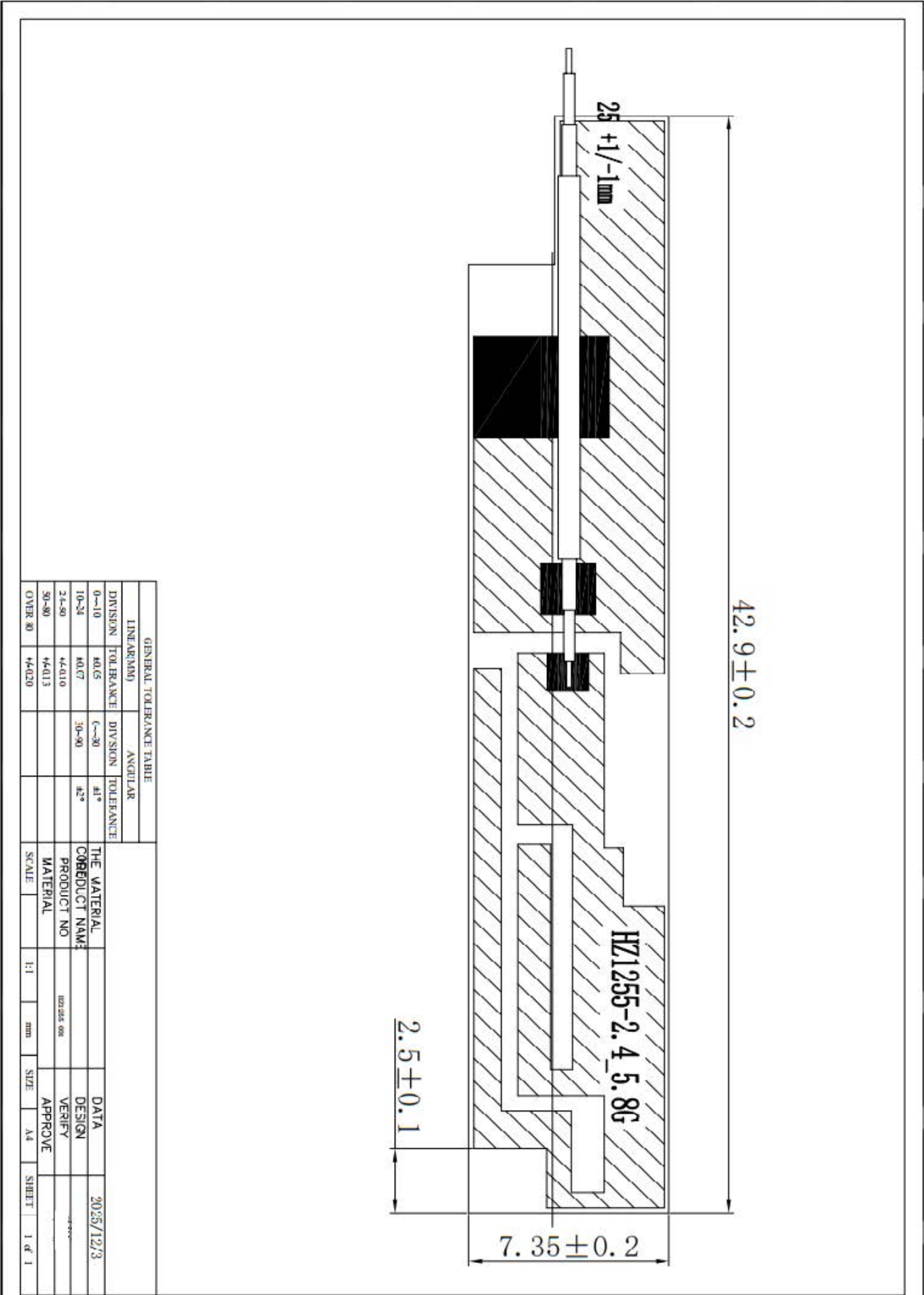


Froequency (MHz)	Efficiency (%)	Gain(dBi)	Froequency (MHz)	Efficiency (%)	Gain(dBi)	Froequency (MHz)	Efficiency (%)	Gain(dBi)
5150	36.82	2.05	5380	30.98	1.6	5610	23.91	0.32
5160	38.11	2.16	5390	28.35	1.29	5620	23.09	0.29
5170	39.21	2.33	5400	31.43	1.9	5630	23.58	0.21
5180	41.53	2.5	5410	29.11	1.4	5640	23.19	0.2
5190	38.94	2.17	5420	30.78	1.72	5650	24.28	0.75
5200	40.41	2.26	5430	30.04	1.64	5660	24.04	0.65
5210	42.2	2.36	5440	29.58	1.5	5670	26.4	1.02
5220	42.06	2.44	5450	28.65	1.36	5680	22.53	0.54
5230	42.73	2.56	5460	26.36	1.02	5690	20.81	0.32
5240	41.51	2.49	5470	28.25	1.28	5700	21.96	0.55
5250	41.44	2.51	5480	27.92	1.3	5710	20.34	0.37
5260	41.88	2.58	5490	28.88	1.36	5720	21.82	0.59
5270	40.3	2.47	5500	27.04	1.11	5730	20.09	0.59
5280	38.38	2.25	5510	24.75	0.61	5740	17.7	0
5290	37.32	2.14	5520	24.52	0.58	5750	16.8	-0.09
5300	35.8	2.03	5530	25.3	0.68	5780	15.93	-0.36
5310	35.74	2.22	5540	24.36	0.56	5790	14.63	-0.92
5320	38.57	2.44	5550	24.94	0.68	5800	15.47	-0.74
5330	36.42	2.21	5560	22.66	0.12	5810	14.78	-0.98
5340	33.6	2	5570	23.46	0.33	5820	16.05	-0.55
5350	34.93	2.08	5580	23.15	0.1	5830	19.91	0.56
5360	30.92	1.83	5590	22.04	0.01	5840	22.53	1.09
5370	33.44	1.97	5600	25.11	0.54	5850	23.2	1.03

5. Antenna TRP&TIS Test Results

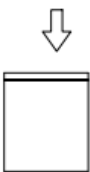
Z86 OTA				
802.11b 2.4G				
Testing items	Rate (Mbps)	CH1	CH7	CH13
TRP	11	12	14.4	14.7
TIS	11	-80.56	-82.2	-81.8
802.11g 2.4G				
Testing items	Rate (Mbps)	CH1	CH7	CH11
TRP	54	10.7	13.1	13.5
TIS	54	-67	-69	-69.1
802.11a 5.8G				
Testing items	Rate (Mbps)	CH36	CH149	CH165
TRP	MCs7	11.7	12.7	12.24
TIS	MCs7	-69.7	-69.1	-69.21

6. Antenna Engineerdrawing

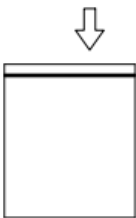


Packaging Specification

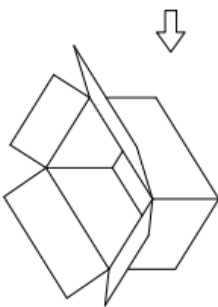
1. FPC finished antenna



2.100 pieces per PE bag (subject to actual packaging)



3. Place the pre-packed small antenna packaging bags neatly (Figure 3) with 10 small bags (subject to actual packaging)



4. The packaged antenna can be placed in a cardboard box, which can hold 5 large bags and each box can hold 5000PCS (Figure 4). (Based on actual packaging)

名称	
规格	
数量	
日期	

5. After packaging is completed, a shipping label needs to be affixed (Figure 5)