



Professional Antenna Service Provider

SHENZHEN FEIMIN TECHNOLOGY CO.,LTD.

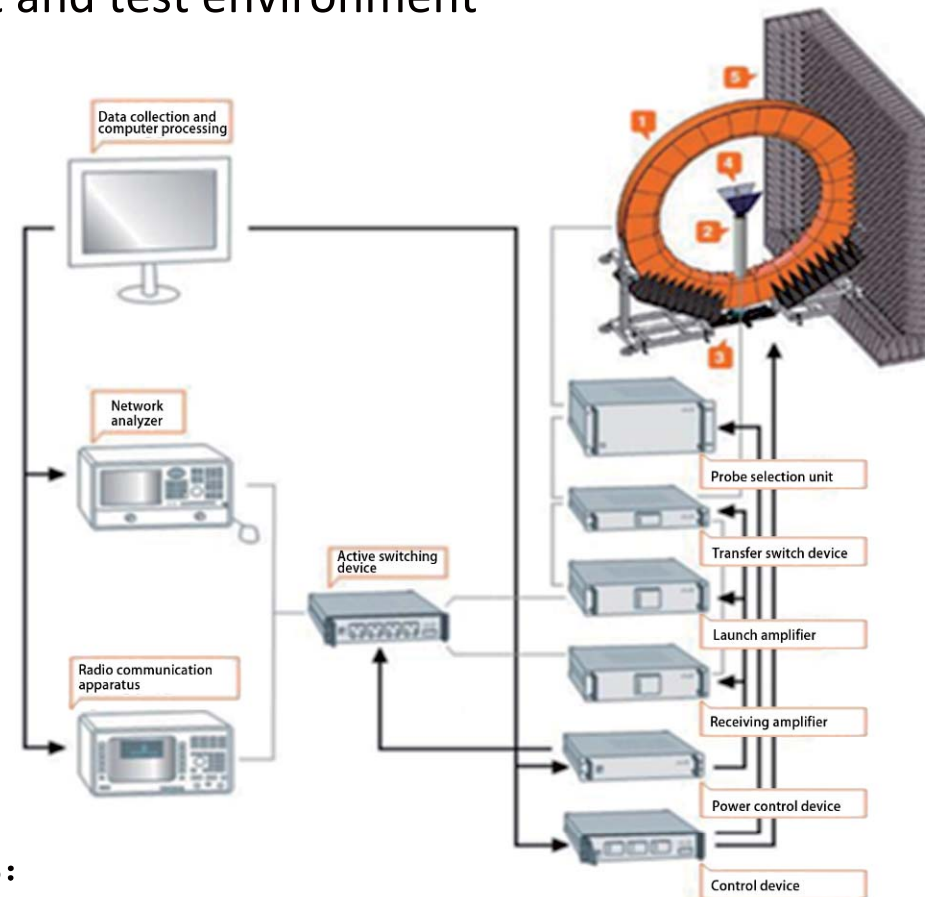


Antenna test report

Item model	ZGA006
Antenna model	
Testers	Xu Gaofu
Auditors	Chen Zhexiong
Date	2024-12-6



Test equipment and test environment

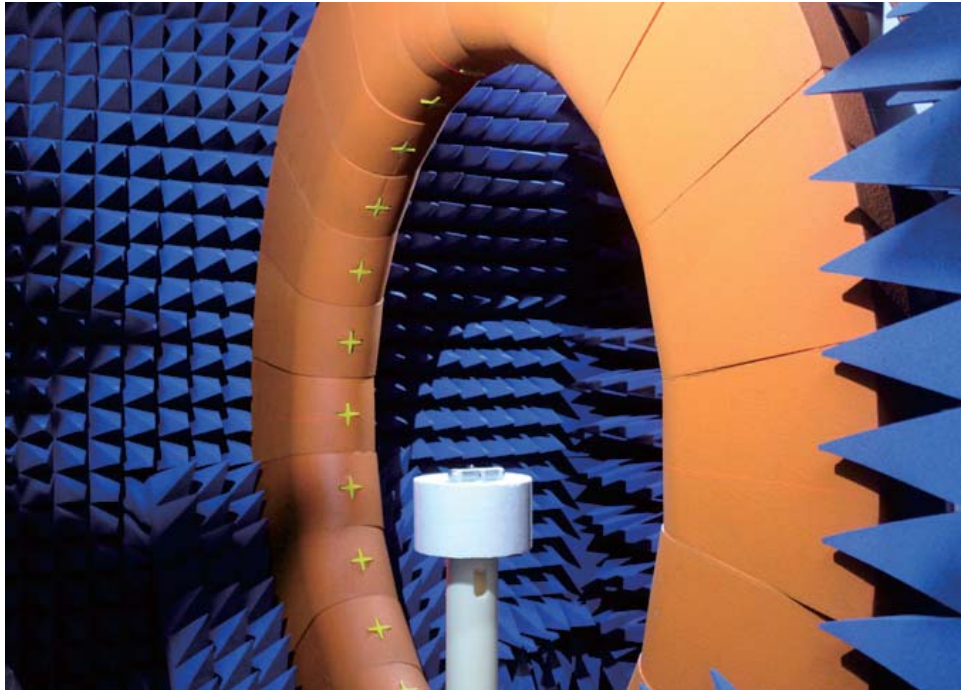


Test Environment Conditions:

RelativeHumidity	15 ... 75 %
Temperature	+10 °C ~ +30 °C
Voltage of the EUT	N/A



Test equipment



Probe microwave anechoic chamber

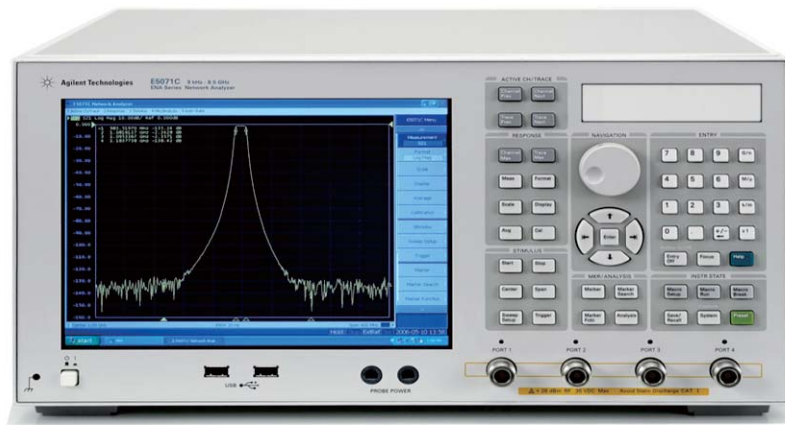
➤ Frequency Range : 0.4GHz-6GHz

Main test indicators

- ◆ Passive indicators
 - ◆ Gain
 - ◆ effectiveness
 - ◆ 3D pattern
- Active indicator
 - TRP total radiated power
 - TIS total receiving sensitivity



Test equipment



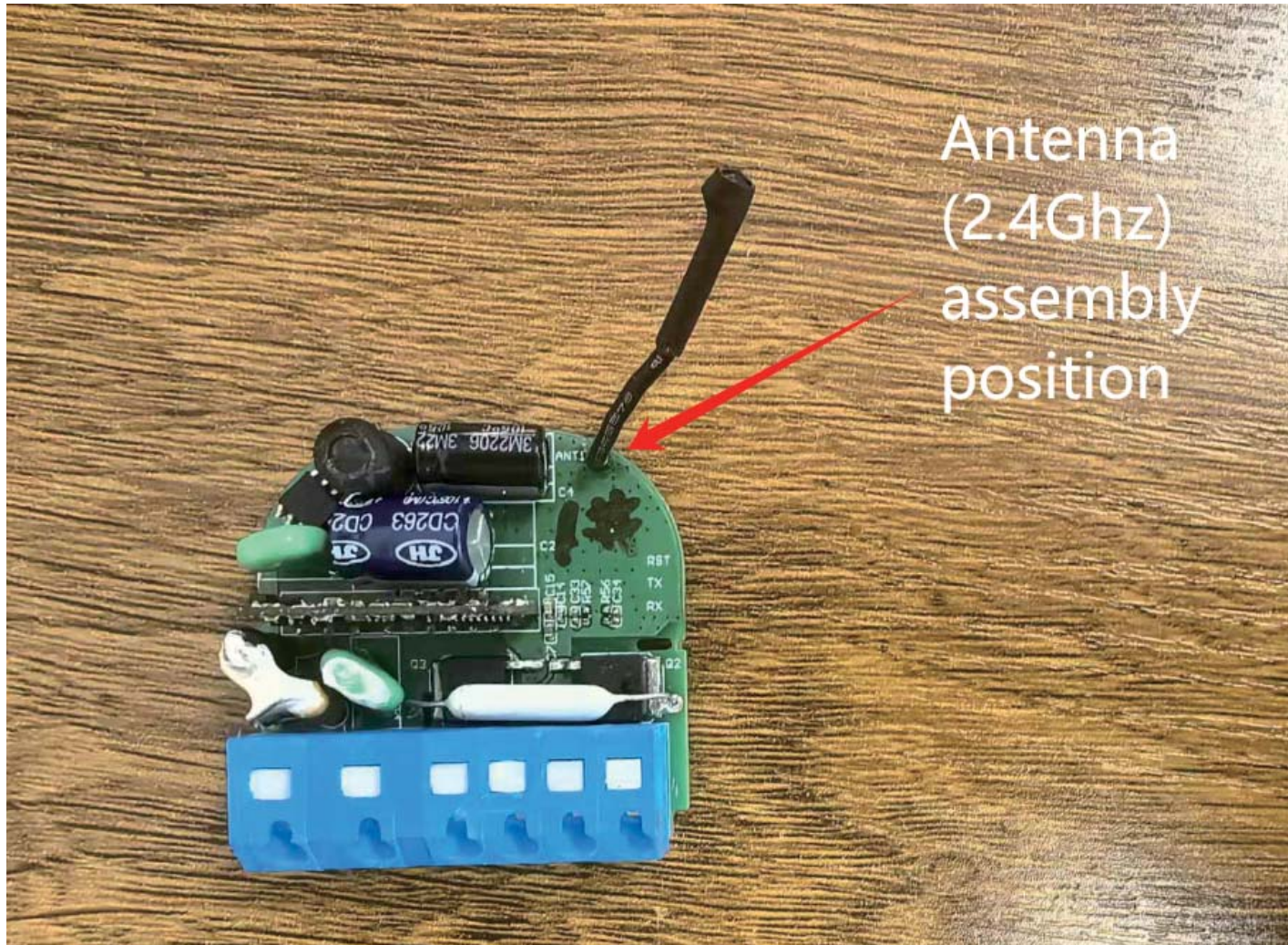
Agilent E5071C Vector network analyzer
➤ Frequency Range : 300 kHz - 8.5GHz



R&S CMW500 Broadband wireless communication tester
➤ GSM/3G/4G
➤ WIFI/ Bluetooth
➤ NB-IoT



Antenna photo



Antenna
(2.4Ghz)
assembly
position

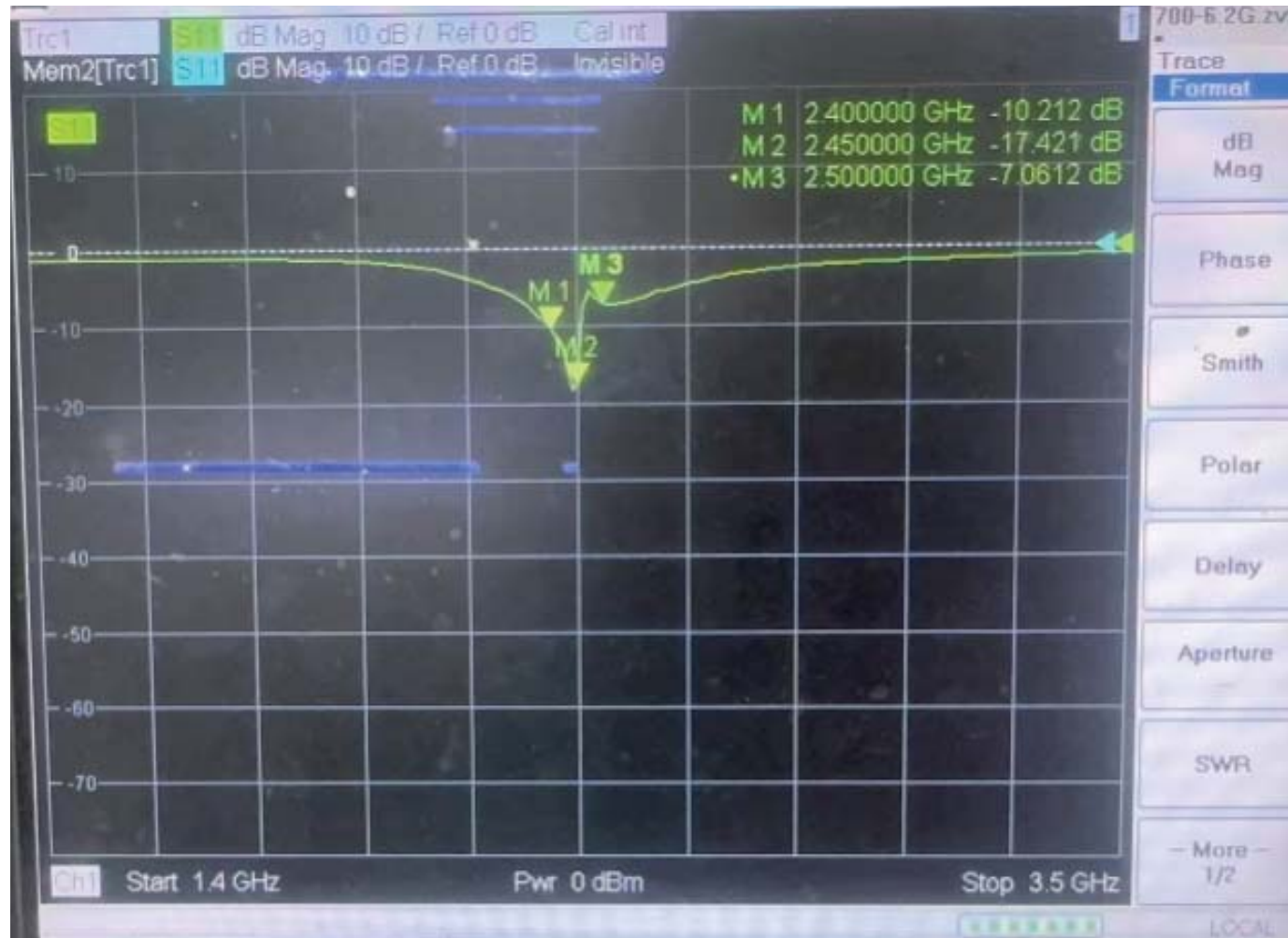


Antenna SWR





Antenna Return loss



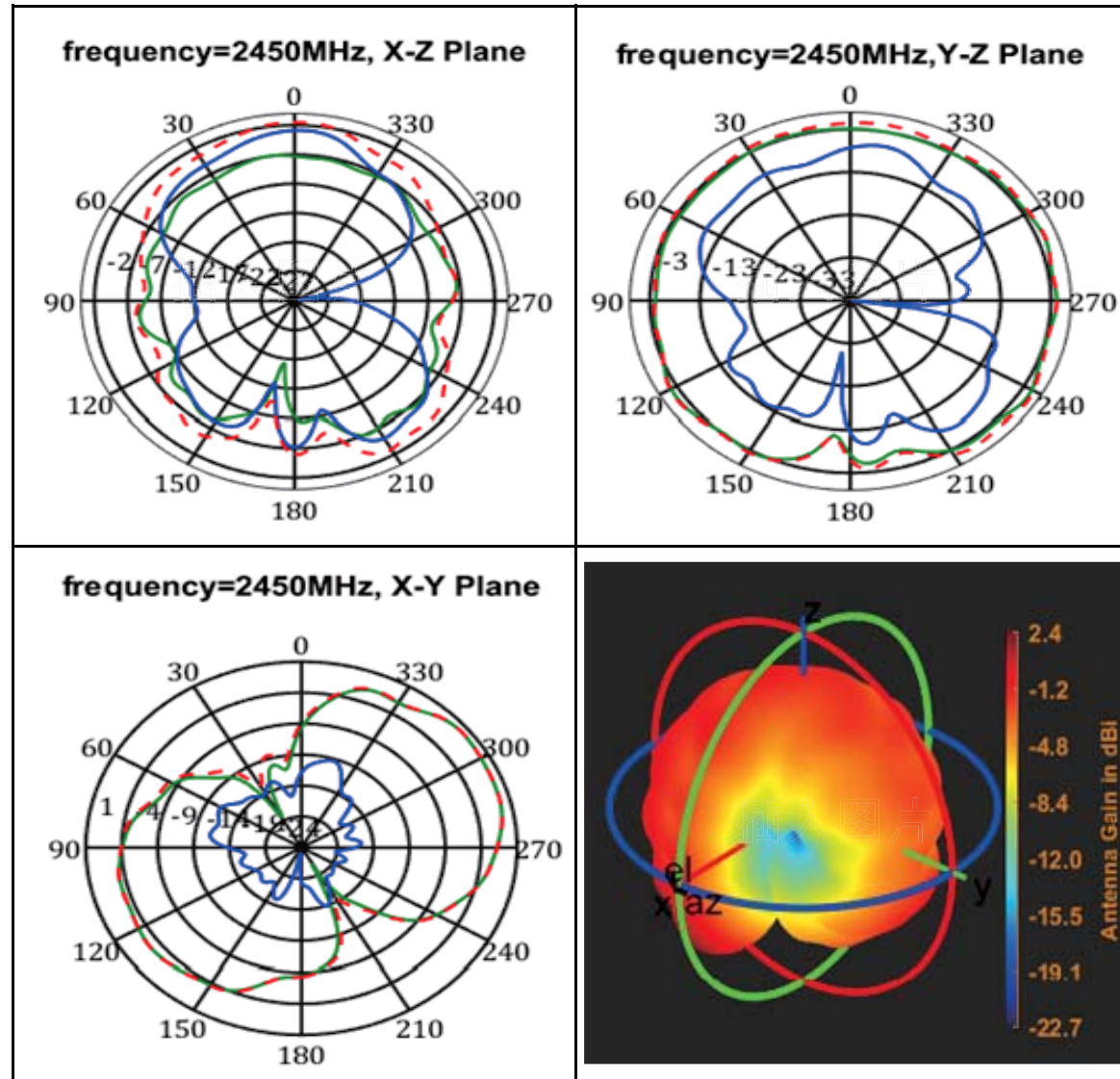
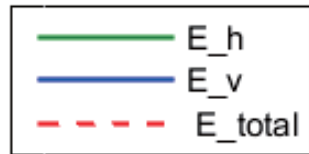


Antenna gain and efficiency

Antenna		
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	35.52	1.58
2410	36.11	1.62
2420	36.26	1.75
2430	37.45	1.90
2440	38.81	2.10
2450	40.23	2.36
2460	40.07	2.10
2470	38.50	1.97
2480	37.31	1.82
2490	36.17	1.75
2500	34.05	1.63



Antenna Radiation Pattern



Thanks for your support!

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