

Date: 2025-0710

Antenna Test Report of Xiaoxingyi G3 Project

Project version	Radio frequency director	Head of structure	frequency band
AIMB-V3	Li gong	Cengong	BT
Remarks:			

Our company has reviewed and met the requirements of applicable clauses of GB /T 19001-2016/ISO 9001: 2015 quality management system standards.
701. www.tyquant.com, Building 212, Tairan Science Park, Tairan 4th Road, Futian District, Shenzhen

Directory:

- 1, test environment
- 2, matching circuit design
3. Antenna test report
4. Suggestions on environmental treatment

Shenzhen Tianyu tong electronic
technology co., ltd Room 701,
Building 212, Tairan Science Park,
Chegongmiao, Futian District,
Shenzhen

1. Test environment

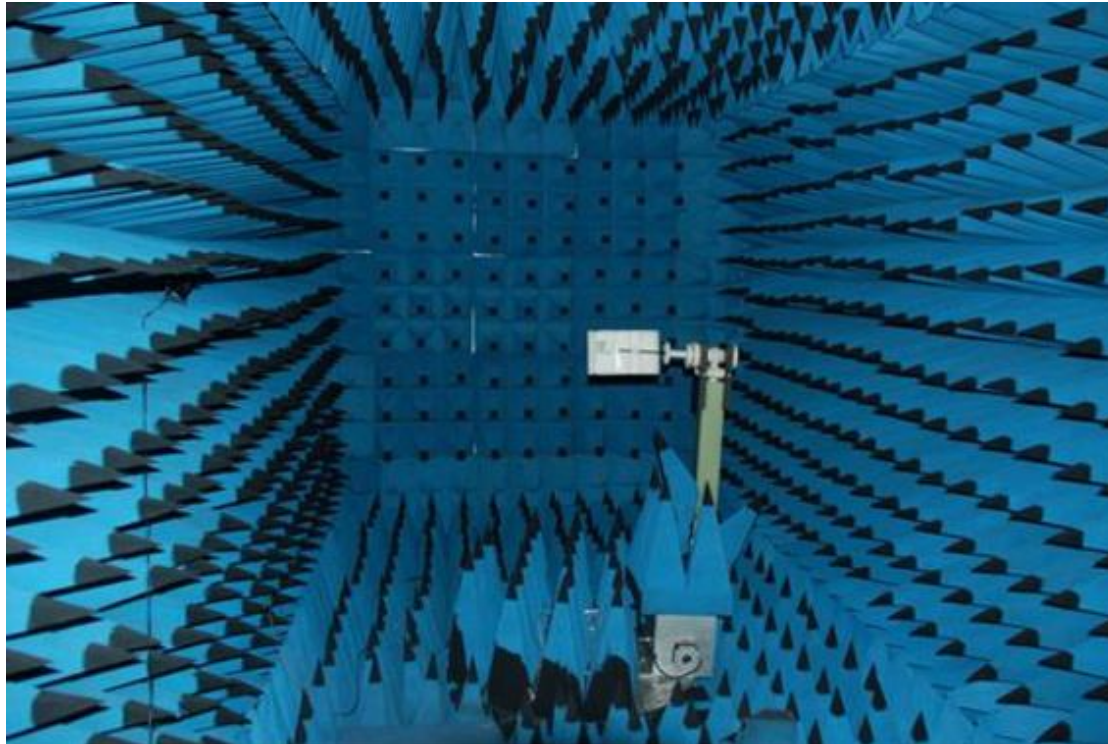
Test system: ETS 3D shielded darkroom

Test environment: temperature 22°C 3°C and humidity 50% 15%.

Test equipment: when testing passive data, use HP 8753E network analyzer.

When testing active data, use E5515C-8960 3G full-function comprehensive tester.

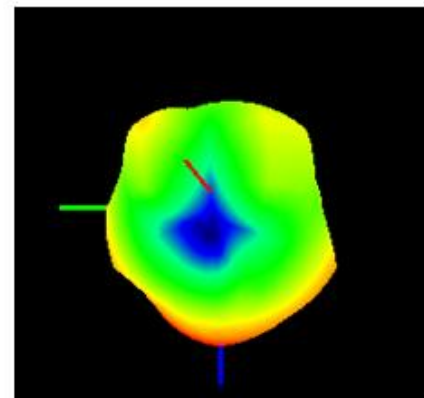
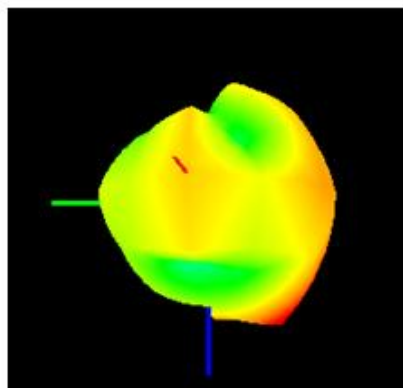
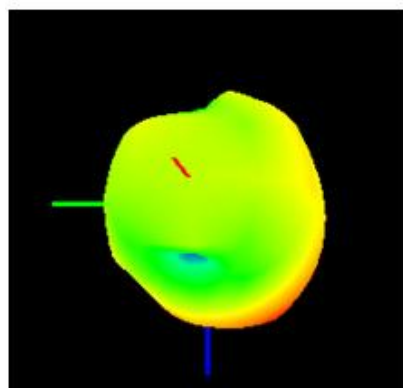
When testing active data, use 8820C 4G full-function comprehensive tester.



Antenna gain 2.4GHz

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	32.31	-4.65	0.91	-1.34	15.415	18.89	0.81	-19.85	52.57	52.52
2410	32.16	-4.54	0.76	-1.39	14.929	20.234	0.76	-19.06	52.61	52.56
2420	32.13	-5.08	0.78	-1.85	12.193	18.832	0.3	-16.99	52.49	52.49
2430	33.49	-4.75	1.11	-1.04	12.234	21.258	1.11	-19.47	52.55	52.52
2440	33.25	-4.53	1.59	-0.56	12.305	22.941	1.59	-20.3	52.69	52.57
2450	33.57	-4.74	1.39	-0.76	11.846	21.727	1.39	-20.47	52.92	52.78
2460	33.51	-4.75	1.28	-0.87	12.482	21.039	1.28	-23.49	52.79	52.62
2470	30.11	-5.24	0.58	-1.57	11.921	18.024	0.58	-26.3	52.83	52.65
2480	34.69	-4.6	0.92	-1.23	14.699	19.988	0.92	-23.39	52.81	52.65
2490	35.98	-4.44	1.17	-0.98	15.883	20.098	1.17	-21.58	53	52.81

2.4GHz 苹果图



Antenna size

