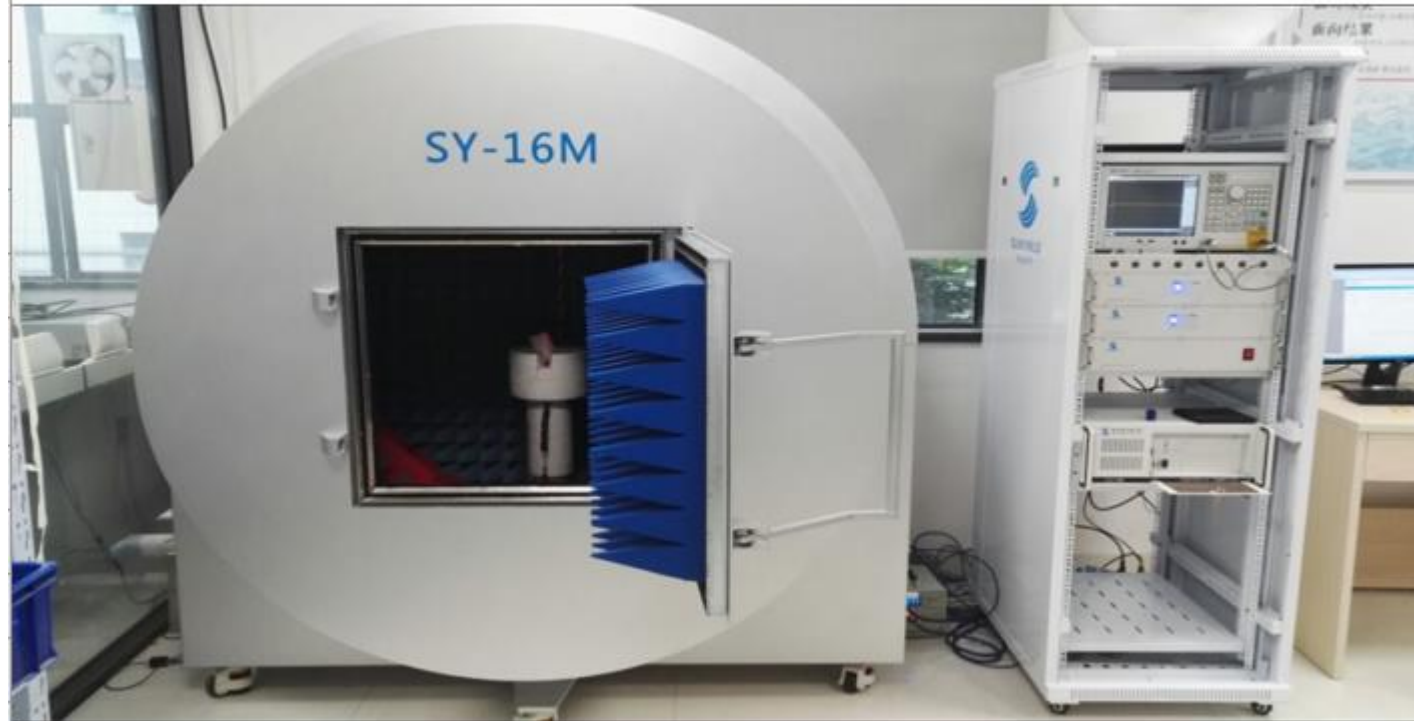


Product Information						
Client		LDS		Protocol		WiFi
Project Number		空气净化器		Sample Quantity		1
Model Number				PCB Version		V2.0-Y1
Chip Type				Structure Version		正式模
Sample Picutres						
Summary						
No.	Iterms	Idex			Test Result	Conclusion
1	<u>Efficiency (%)</u>	A (≥45%)	B (25%~44.99%)	C≤24.99%	WiFi: 45%	A
2	<u>VSWR</u>	≤2.5			1.8	PASS
3	<u>Distance Test</u>	WiFi 100M	BLE 10M	Zigbee 40M	100M	PASS
Author		DeYun Li			Test Date	2023.05.04
Verifier		DeYun Li			Review Date	2023.05.04
Version		V1.0			Revise Content	Reviser

Test Environment

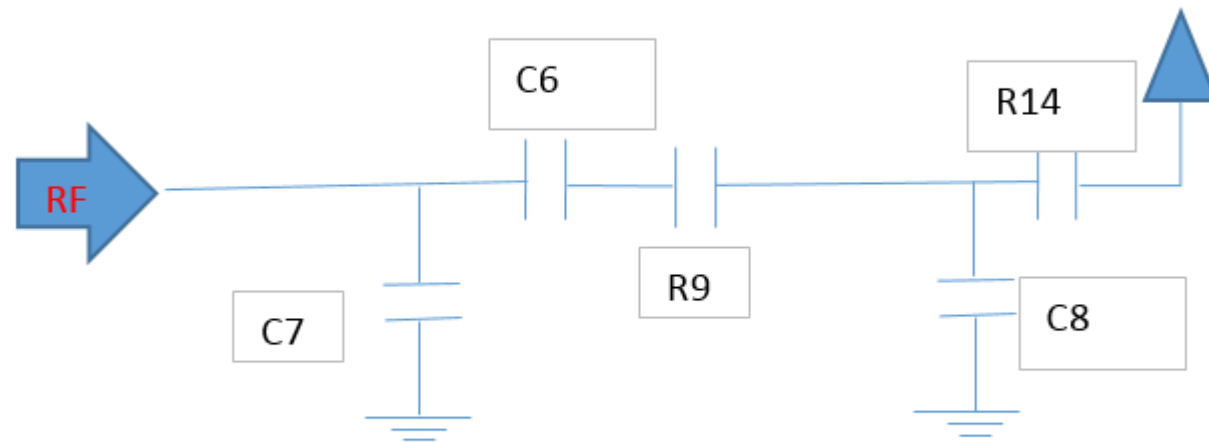
SY-16M Test System



Picture



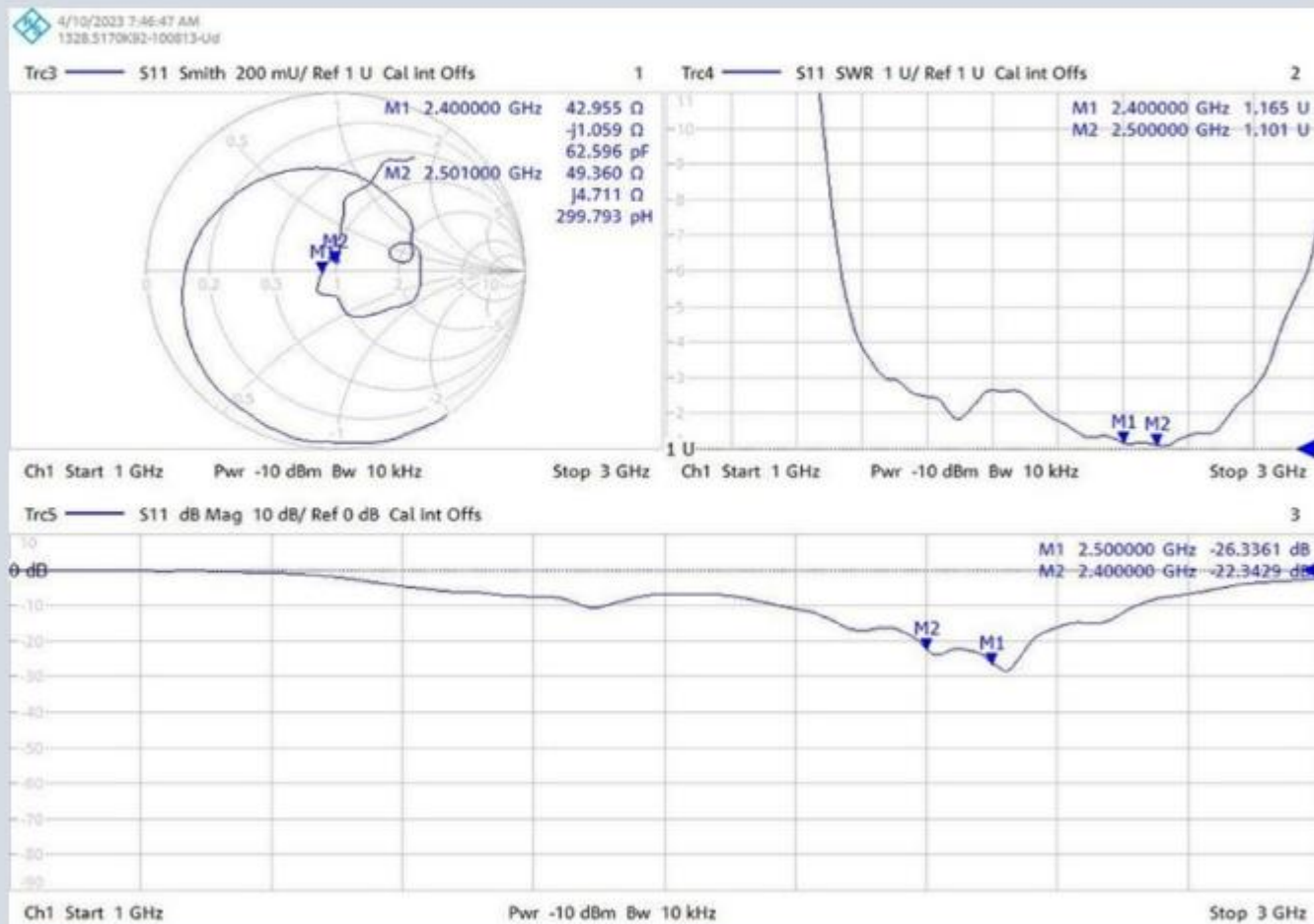
Antenna Matching



WiFi 前 Test Result

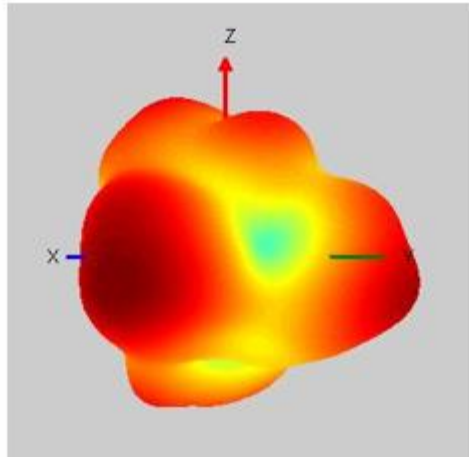
VNA Data

VSWR & Return Loss & Smith Chart

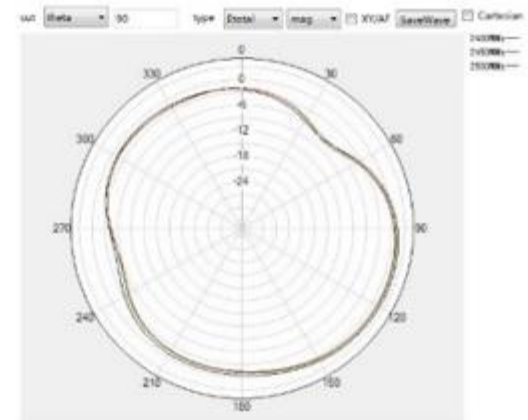


Chamber Data			
Gain & Efficiency			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0. 48	-3. 21	47. 75
2410	0. 47	-3. 27	47. 10
2420	0. 47	-3. 35	46. 24
2440	0. 53	-3. 37	46. 03
2450	0. 68	-3. 29	46. 88
2460	0. 66	-3. 35	46. 24
2470	0. 63	-3. 41	45. 60
2480	0. 68	-3. 39	45. 81
2490	0. 66	-3. 42	45. 50
2500	0. 78	-3. 32	46. 56

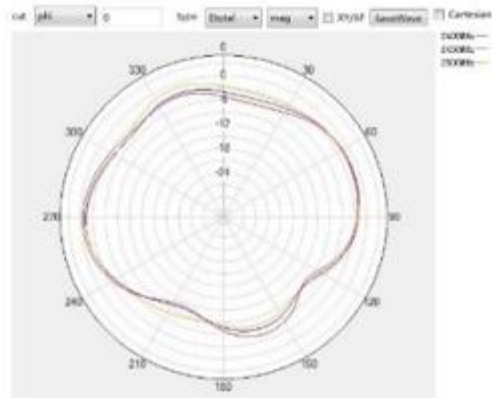
3D



$\theta = 90^\circ$ (XY Plane)



$\phi = 0^\circ$ (XZ Plane)



$\phi = 90^\circ$ (YZ Plane)

