

Antenna Test Report

Light control V1.1

Customer	IMES
Agent	
Project name	Light control
Model. IC	—
Model. ANT	W50A0F245H07

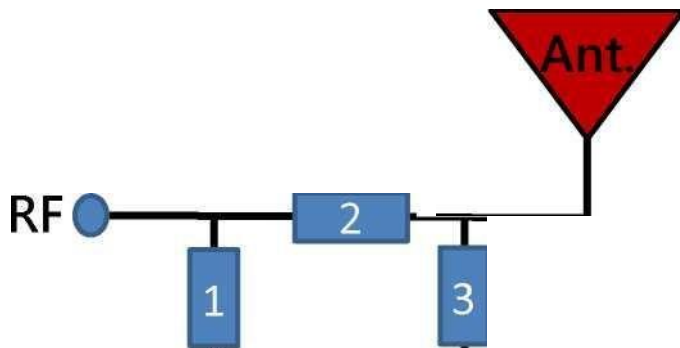
2022/12/19

Ant. Matching

- Antenna Placement



- Matching Circuit



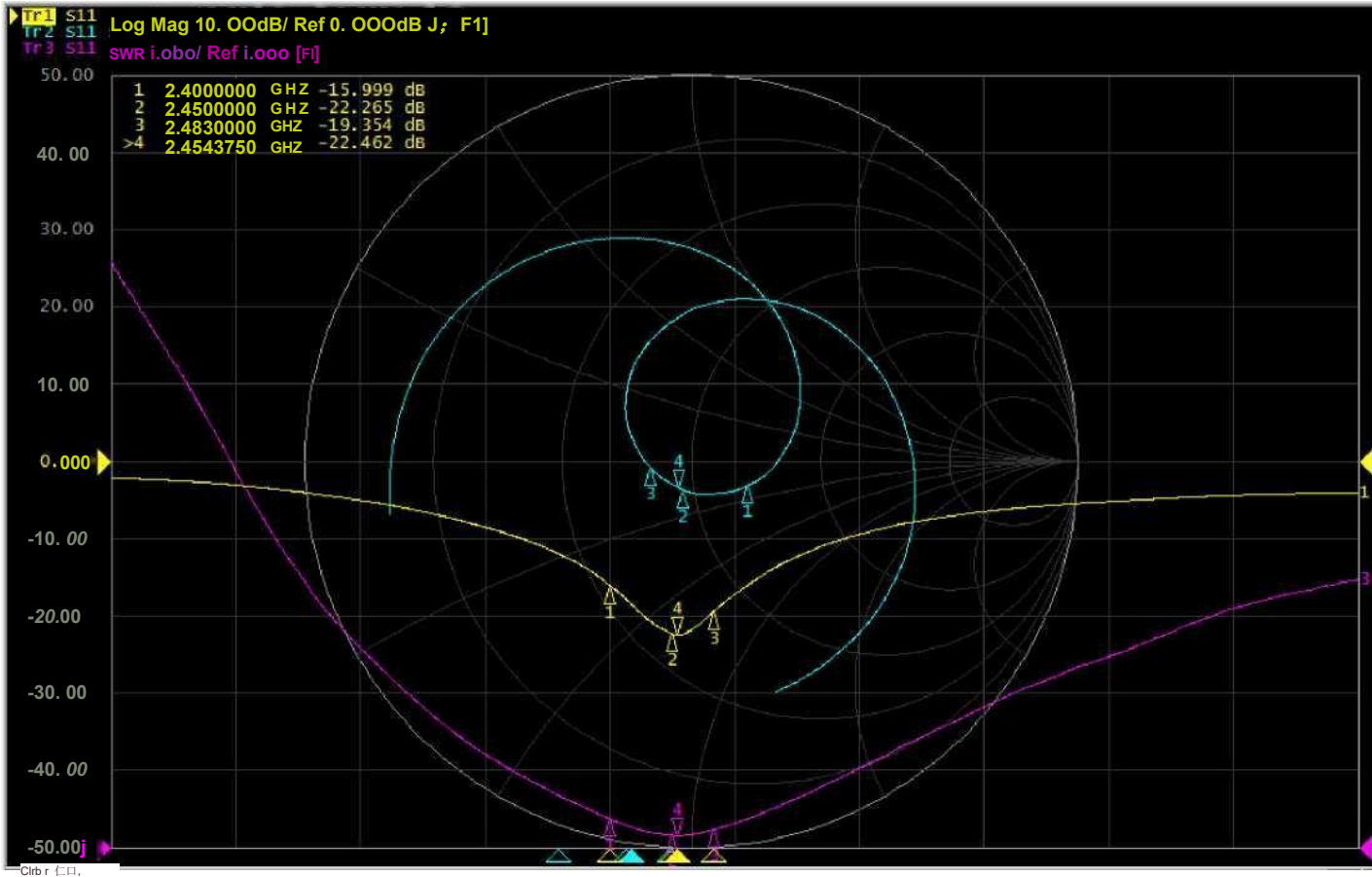
Antenna clearance area :--mm		
	LC	P/N
Ant.	W50A0F245H07	
1	2.0pF	Murata
2	1.0pF	Murata
3	5.6nH	Murata

Ant. S11 Parameter

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize



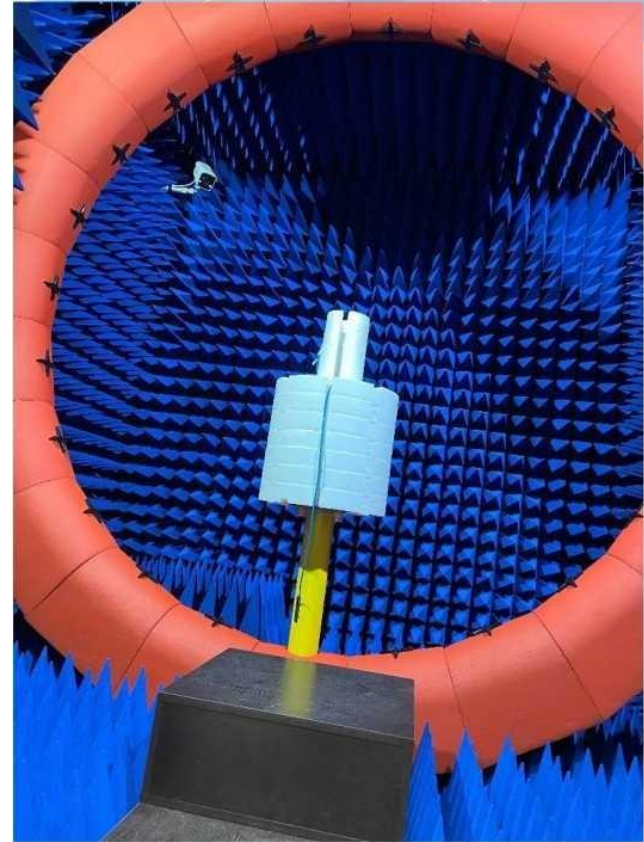
Equipment of OTA test



Line analyzer E5071C



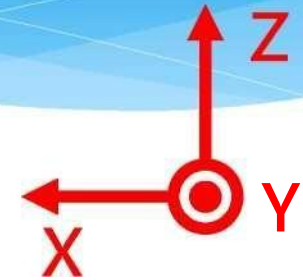
Comprehensive tester MW500



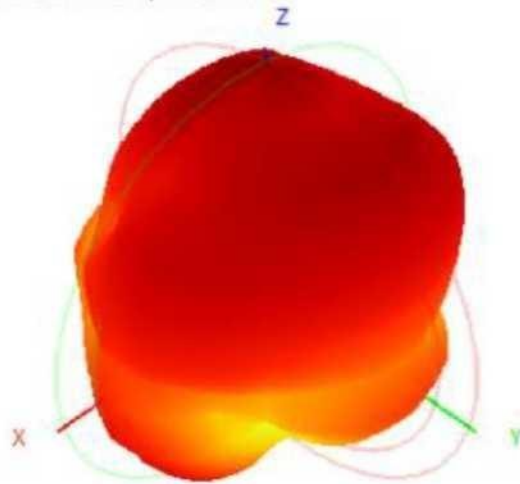
Microwave dark room FTM-24DM More probes

Ant. Gain Pattern @2.45GHz

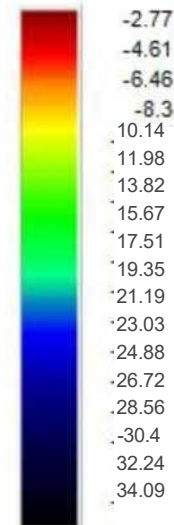
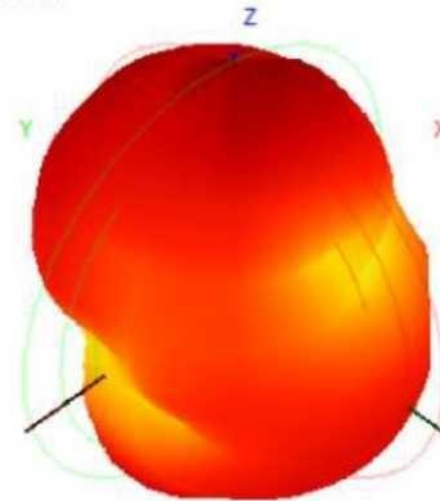
Passive Test (free space)



2450.0MHz H+V, Eff: 14.9%



Back View



Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-3.39	-3.26	-3.29	-3.41	-3.01	-2.77	-2.79	-2.92	-3.15	-3.55	-4.11
Efficiency (%)	12.60	13.67	14.40	14.95	15.08	14.87	14.19	13.40	12.53	11.51	10.47

Conclusion

-The test data meets customer standards.