



德仕勤科技有限公司

Dosking MicroElectronics Co.,Ltd

电性测试报告

Test Reports

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain (Peak)	/
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 0.81\text{mm}$ Black
Operating Temp	-30°C-85°C
Storage Temp.	-5°C-30°C

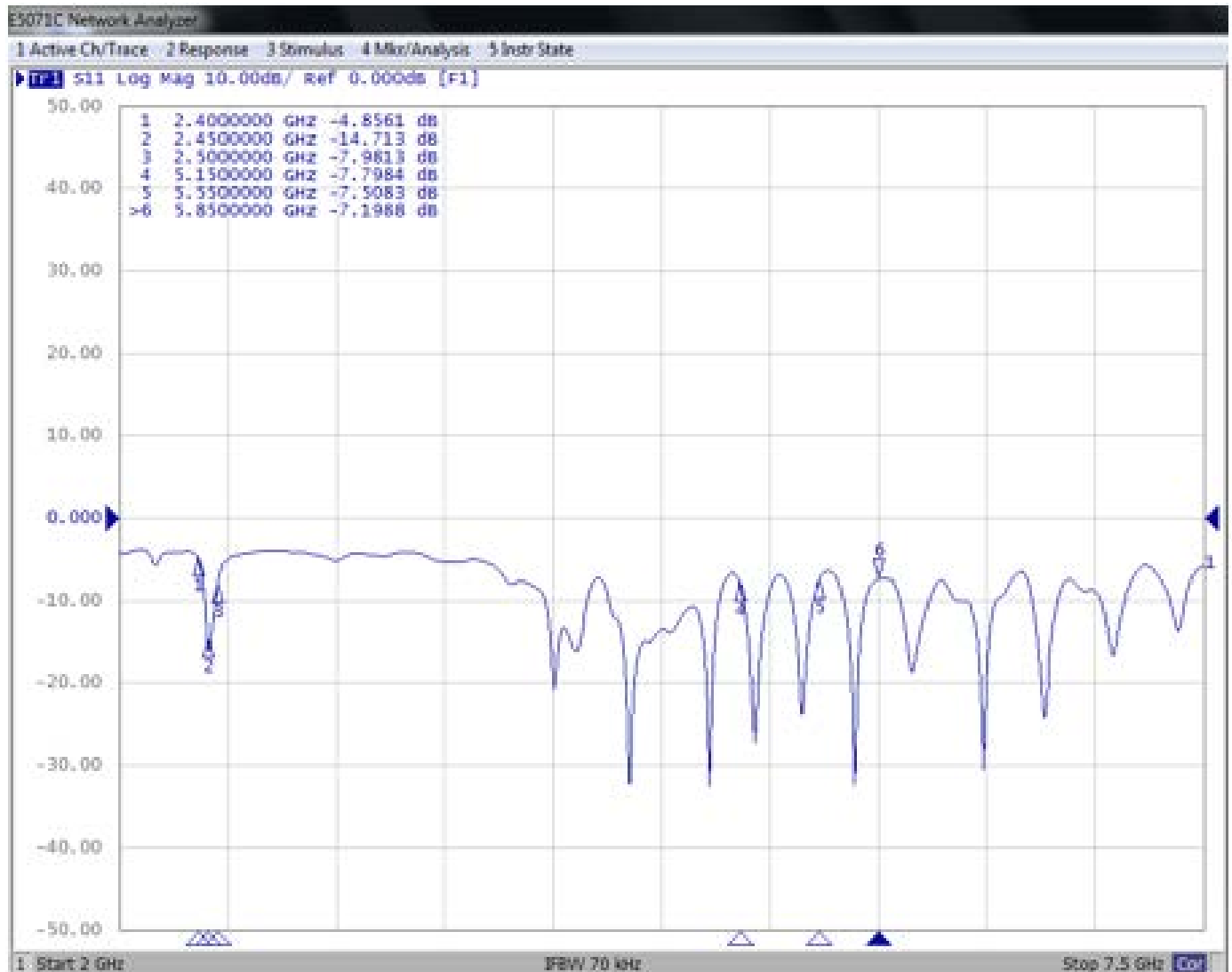
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S参数测试 S Parameter Test

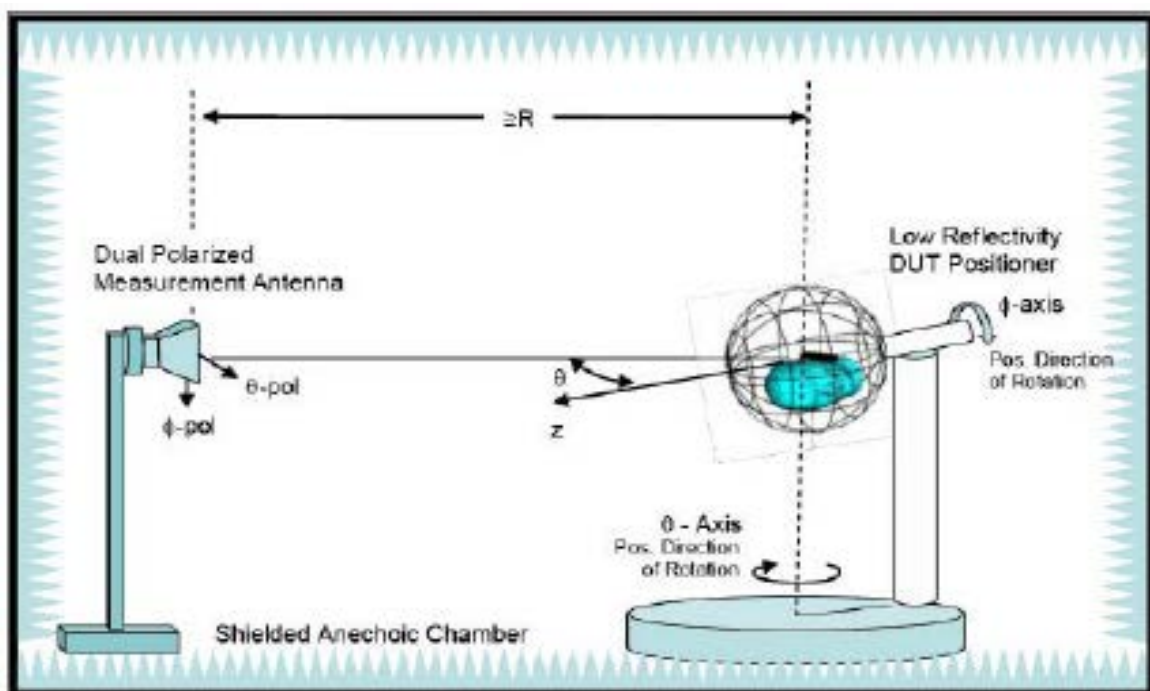
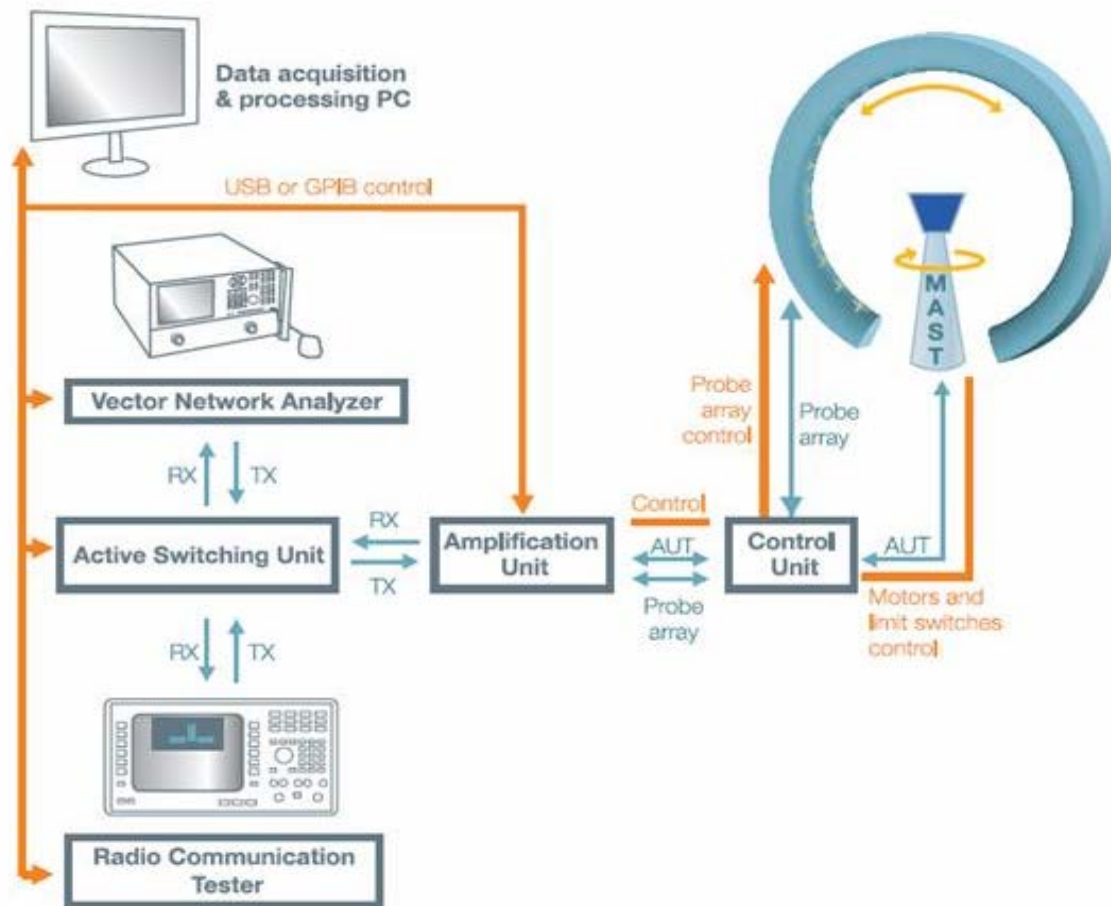
Agilent E5071C Network Analyzer



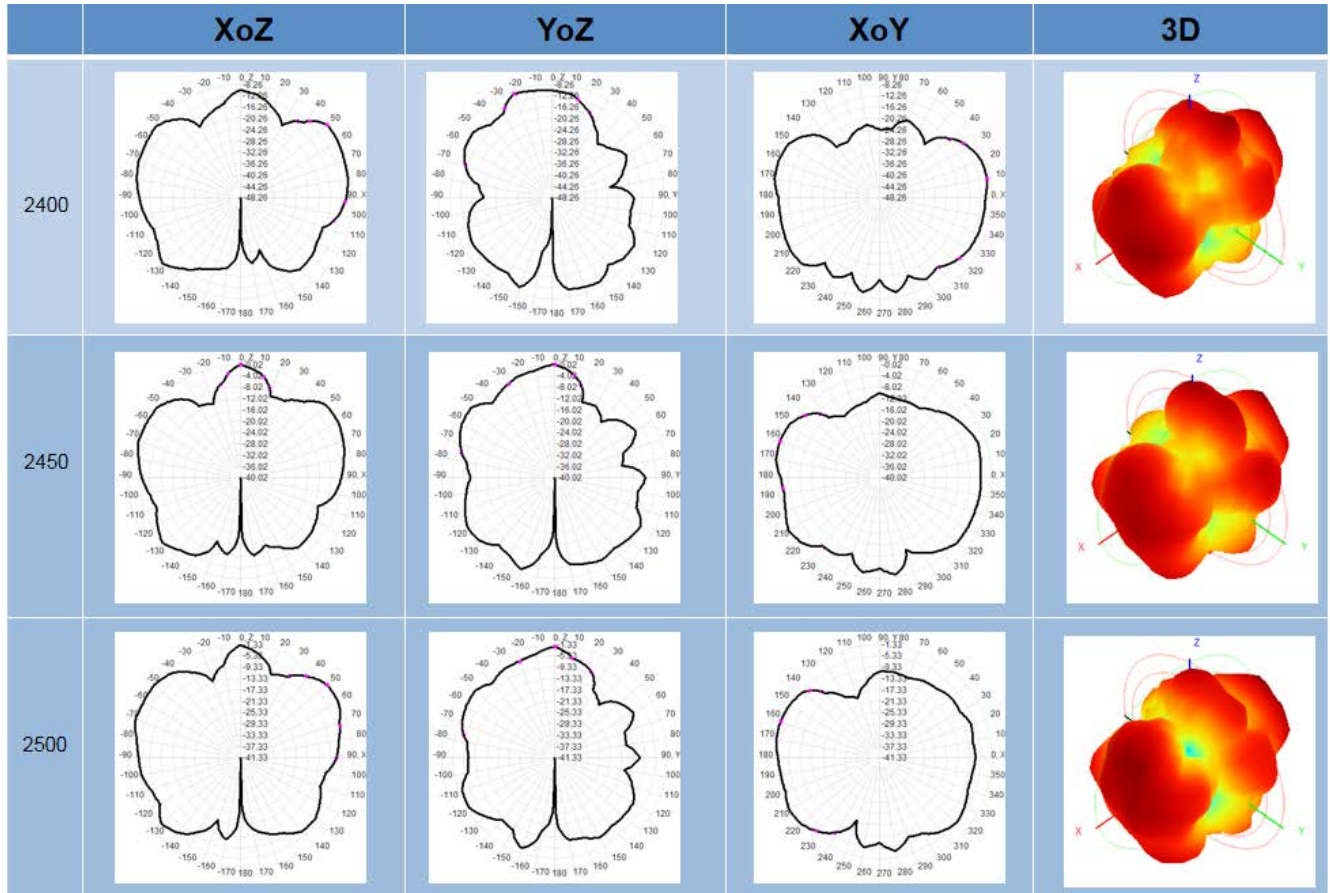
RF Antenna (VSWR)



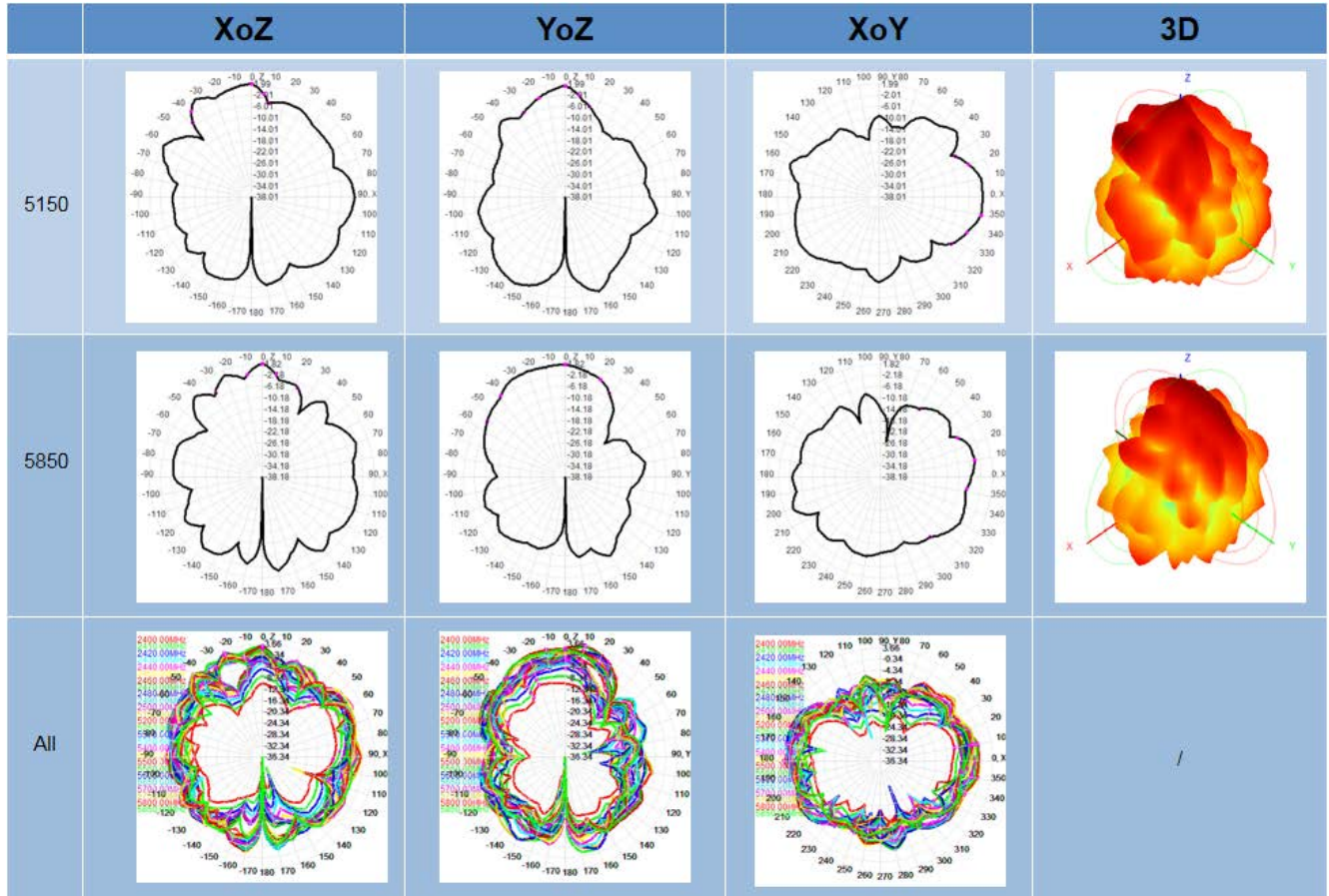
测试设备 Test Setup



方向图 Pattern



方向图 Pattern





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测试效率 Test Efficiency

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-6.88	-6.57	-6.70	-6.25	-7.15	-6.33	-6.16	-6.27	-6.37	-6.73	-7.21
Gain (dBi)	0.46	1.93	1.69	2.43	2.16	2.76	1.57	2.07	2.35	1.36	2.12
Efficiency (%)	20.53	22.02	21.40	23.72	19.28	23.27	24.18	23.58	23.08	21.26	19.01
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550		
Efficiency (dBi)	-6.27	-6.10	-5.99	-6.24	-6.39	-5.99	-6.12	-6.44	-6.95		
Gain (dBi)	2.04	2.84	3.08	2.66	2.25	1.66	3.31	3.66	3.14		
Efficiency (%)	23.61	24.57	25.20	23.77	22.98	25.16	24.42	22.71	20.17		
Frequency (MHz)	5600	5650	5700	5750	5800	5850					
Efficiency (dBi)	-7.38	-6.84	-6.73	-6.80	-7.09	-7.46					
Gain (dBi)	2.49	2.37	2.33	1.93	2.05	2.92					
Efficiency (%)	18.30	20.71	21.26	20.90	19.56	17.93					

测试效率 Test Efficiency

WLAN Antenna Performance Table					
WLAN Whole Band TRP (dBm)				9.16	
WLAN Whole Band TIS (dBm)				-76.34	
		Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink Path)	<u>1</u>	1	--	11.26	--
	<u>2</u>	6	--	9.92	--
	<u>3</u>	11	--	6.30	--
Phone Rx (Downlink Path)	<u>1</u>	1	--	--	-69.04
	<u>2</u>	6	--	--	-82.24
	<u>3</u>	11	--	--	-77.74

WLAN Antenna Performance Table					
WLAN Whole Band TRP (dBm)				9.93	
WLAN Whole Band TIS (dBm)				-66.41	
		Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink Path)	<u>1</u>	36	--	6.75	--
	<u>2</u>	149	--	9.02	--
	<u>3</u>	161	--	12.25	--
Phone Rx (Downlink Path)	<u>1</u>	36	--	--	-60.51
	<u>2</u>	149	--	--	-68.16
	<u>3</u>	161	--	--	-67.36