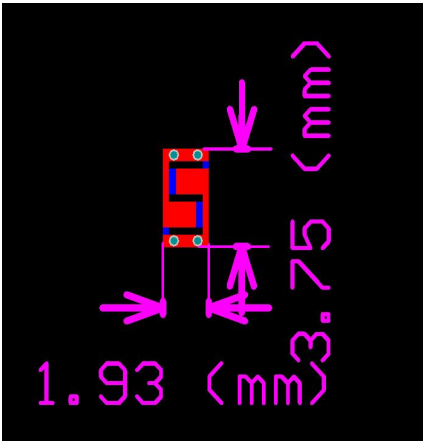


P30天线规格书

Contents	
1	Antenna Specification
2	AntennaDimension
3	Testing equipment
4	Matching Circuit
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6	Antenna efficiency gain
7	OTA
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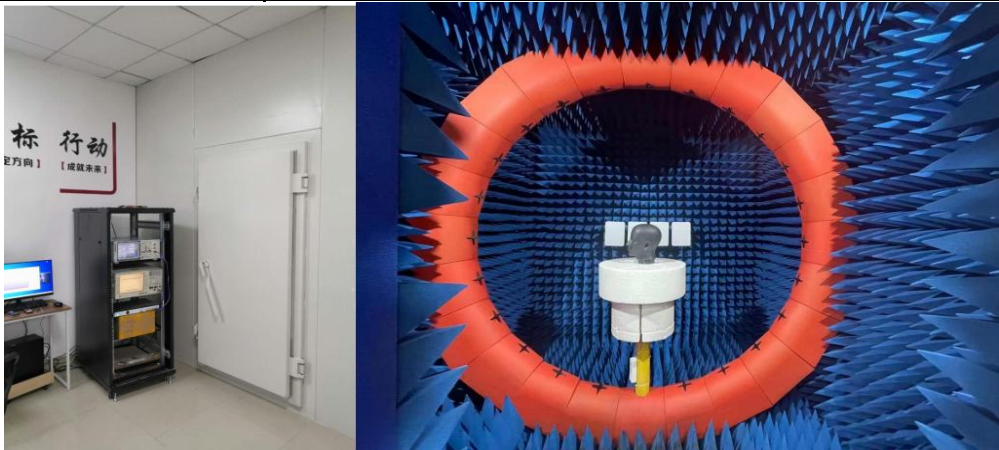
Antenna Specification	
FrequencyRange	2. 4GHz~2. 5GHz
Impedance	50OhmNominal
Bandwidth	80MHz
Radiation	Omni-directional
PeakGain	1. 66dBi
Efficiency	26. 01%
Polarization	LinearPolarization

AntennaDimension


Shenzhen Boyilang Technology Co., Ltd.
Address: Room E1, 11th Floor, Building 3, Lehui Science and Technology
Innovation Center, No. 489 Jihua Road, Bantian Street, Longgang District,
Shenzhen

Testing equipment

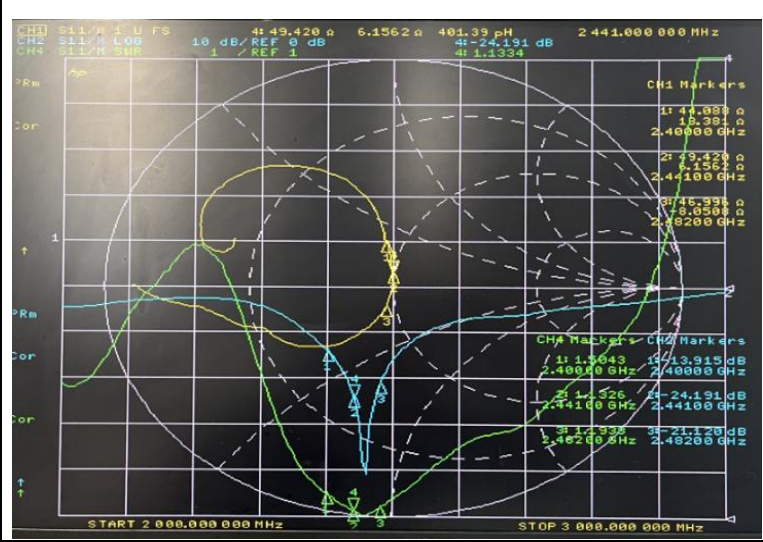
矢量网络分析仪&综测仪	Agilent Technologies E5071B & R&S CMW500
暗室	Aten lab M3
温度	25℃
湿度	65% (RH)



Matching Circuit

	Element	L	R
	L5	1.8NH	1.8NH
	L4	NC	NC
	L6	NC	NC
	ANT1	PCB天线	PCB天线
	C11	2.7PF	2.7PF

S11 、SWR 、smith chart:



Antenna efficiency gain			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	25.04	-5.82	0.63
2410	25.63	-5.68	0.88
2420	24.75	-6.04	-0.53
2430	25.01	-5.78	0.56
2440	25.16	-5.35	0.94
2450	26.06	-4.89	1.66
2460	25.55	-5.71	0.57
2470	24.85	-6.02	-0.42
2480	24.78	-6.06	-0.39
2490	25.78	-6.02	-0.53
2500	25.02	-5.72	0.53

OTA:				
右耳	Channel No.	Frequency (mHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink)	0	2402	2.36	
	39	2441	2.70	
	78	2480	2.54	
Phone Rx (Downlink)	0	2402		-89.51
	39	2441		-89.75
	78	2480		-88.81

头模OTA:				
右耳	Channel No.	Frequency (mHz)	TRP (dBm)	TIS (dBm)
Phone Tx (Uplink Path)	0	2402	0.35	
	39	2441	1.81	
	78	2480	1.74	
Phone Rx (Downlink Path)	0	2402		-87.31
	39	2441		-87.75
	78	2480		-87.61

Radiation Pattern

