

Manufacturer	SHENZHEN MOREJOY INNOVATION TECHNOLOGY CO.,LTD
Address	1907A6K, International Culture Building, No. 3039, Shennan Middle Road, Funan Community, Futian Street, Futian District, Shenzhen, China
Antenna type	Internal antenna
Model	CUBE SLIM
Antenna Gain	2.13dBi for 2.4G, 2.00dBi for 5G

1.Test equipment and conditions:

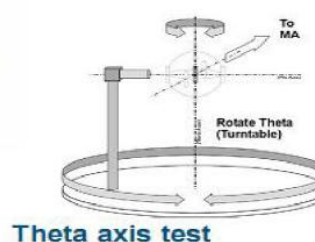
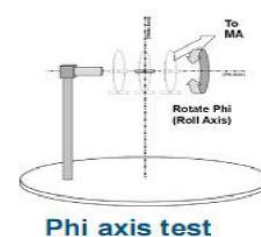
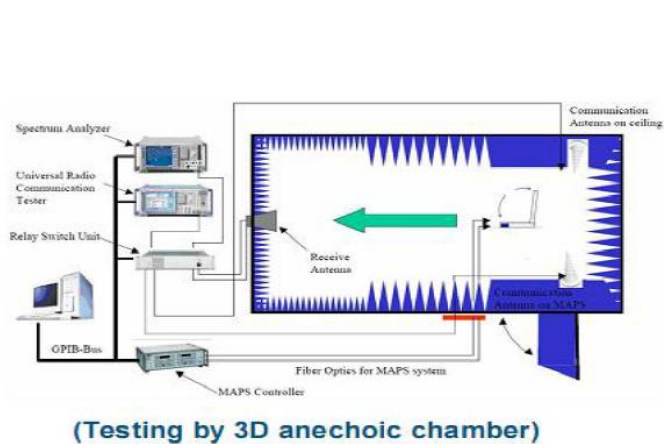
1.1.Network Analyzer

Agilent 8753D Agilent 5071B

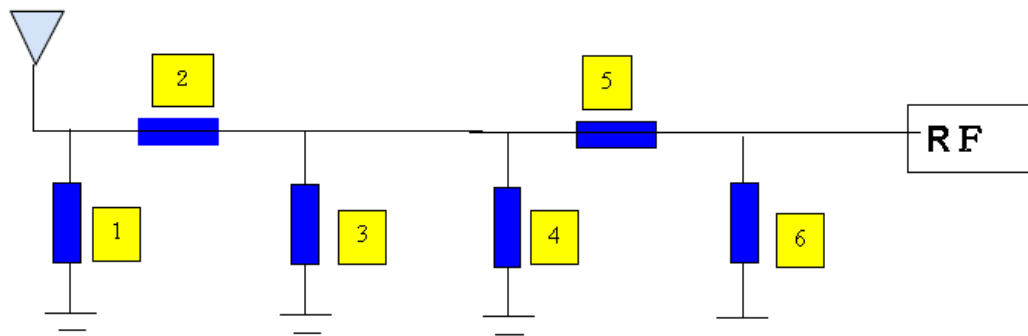
1.2.Communication test equipment

Agilent E5515C R&S CMW500

1.3.Test system

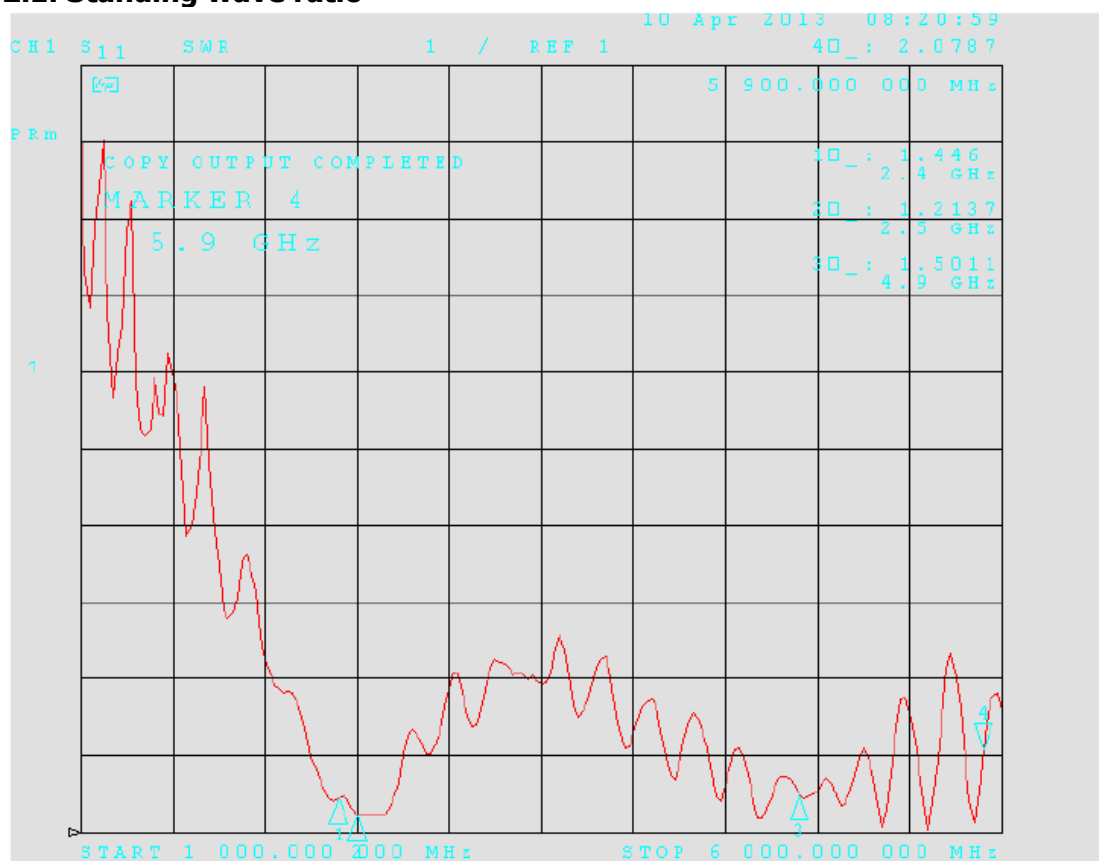


1.4. Matching circuit



2. Test Data:

2.1. Standing wave ratio

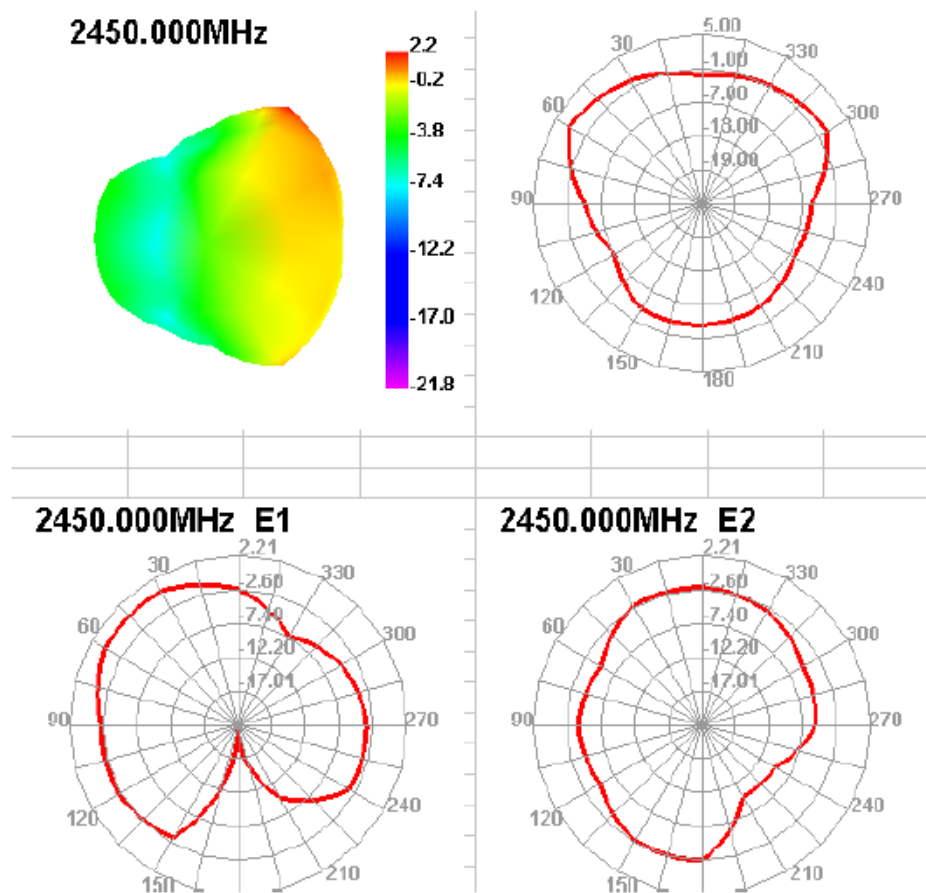


2.2.Efficiency

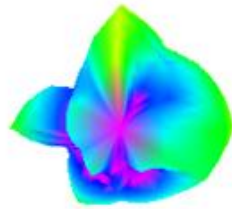
2.4G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
2400	44.38	-2.79	1.93	-0.21	40.28	13.32	2.29	-23.79	48.26	49.33
2410	44.63	-2.46	1.99	-0.15	42.42	13.54	2.46	-21.29	48.66	49.58
2420	44.94	-2.12	2.13	-0.01	40.96	14.77	2.68	-20.97	48.71	49.88
2430	44.27	-2.70	1.98	-0.16	43.24	15.23	2.29	-22.77	48.21	49.35
2450	44.82	-1.83	1.87	-0.27	41.19	16.18	3.15	-21.98	49.11	49.99
2460	44.28	-2.63	1.94	-0.20	42.39	18.25	2.31	-25.62	48.37	49.22
2470	44.49	-2.34	1.87	-0.27	41.78	18.80	2.50	-24.31	48.50	49.54
2480	45.08	-2.23	1.95	-0.19	40.89	19.05	3.14	-23.23	48.98	49.99
2490	44.21	-2.68	1.89	-0.25	43.21	19.23	2.35	-21.77	48.24	49.20
2500	44.46	-2.32	1.96	-0.18	40.44	19.62	2.48	-20.30	48.48	49.61

5GWLAN										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
4900	60.30	-0.78	1.23	-0.91	49.26	35.28	3.29	-19.67	63.32	61.32
5000	60.53	-0.44	1.59	-0.55	51.69	37.77	4.68	-22.38	65.59	62.75
5100	60.61	-0.25	1.99	-0.15	52.92	34.93	3.92	-21.31	64.12	64.84
5200	60.27	-0.69	1.34	-0.80	48.24	39.31	3.29	-19.74	63.35	62.37
5300	60.49	-0.35	1.48	-0.66	46.80	30.79	2.76	-18.23	64.73	63.76
5400	60.96	-0.35	2.00	-0.14	50.15	30.89	3.81	-25.32	64.01	60.93
5500	60.30	-0.75	1.31	-0.83	51.34	29.28	4.22	-23.61	66.30	62.24
5600	60.73	-0.58	1.53	-0.61	49.59	26.70	3.76	-16.47	63.78	61.77
5700	60.76	0.16	1.78	-0.36	53.11	26.16	4.78	-17.26	64.16	61.86
5800	60.21	-0.63	1.36	-0.78	45.22	34.40	3.21	-15.65	62.26	63.31
5900	60.47	-0.28	1.41	-0.73	49.45	35.48	3.56	-18.42	63.54	62.65

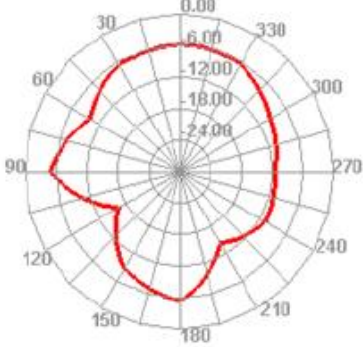
2.3.Directivity diagram



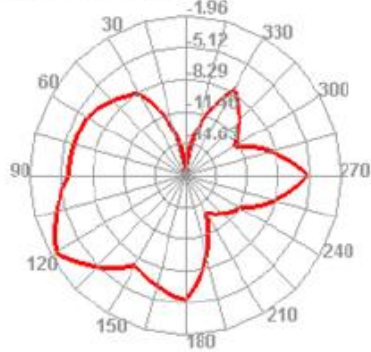
5400.000MHz



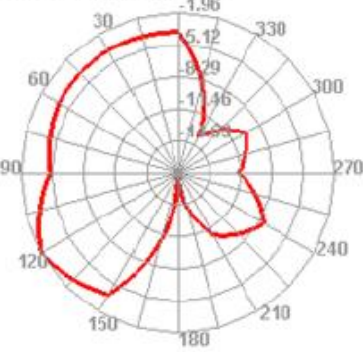
5400.000MHz H



5400.000MHz E1



5400.000MHz E2



3. Antenna drawing (mm) :

