

LANKE XUNTONG TECHNOLOGY CO.,LTD

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Antenna Specification

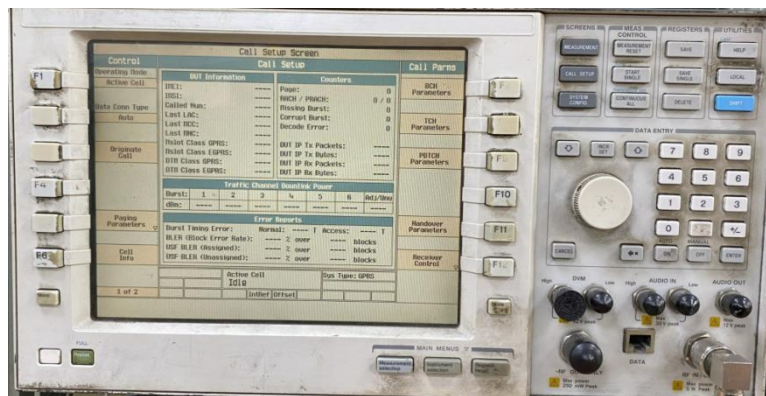
1.Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2G+3G+4G+5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: CMW500/8960 Test Environment: Anechoic Chamber

2.Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)

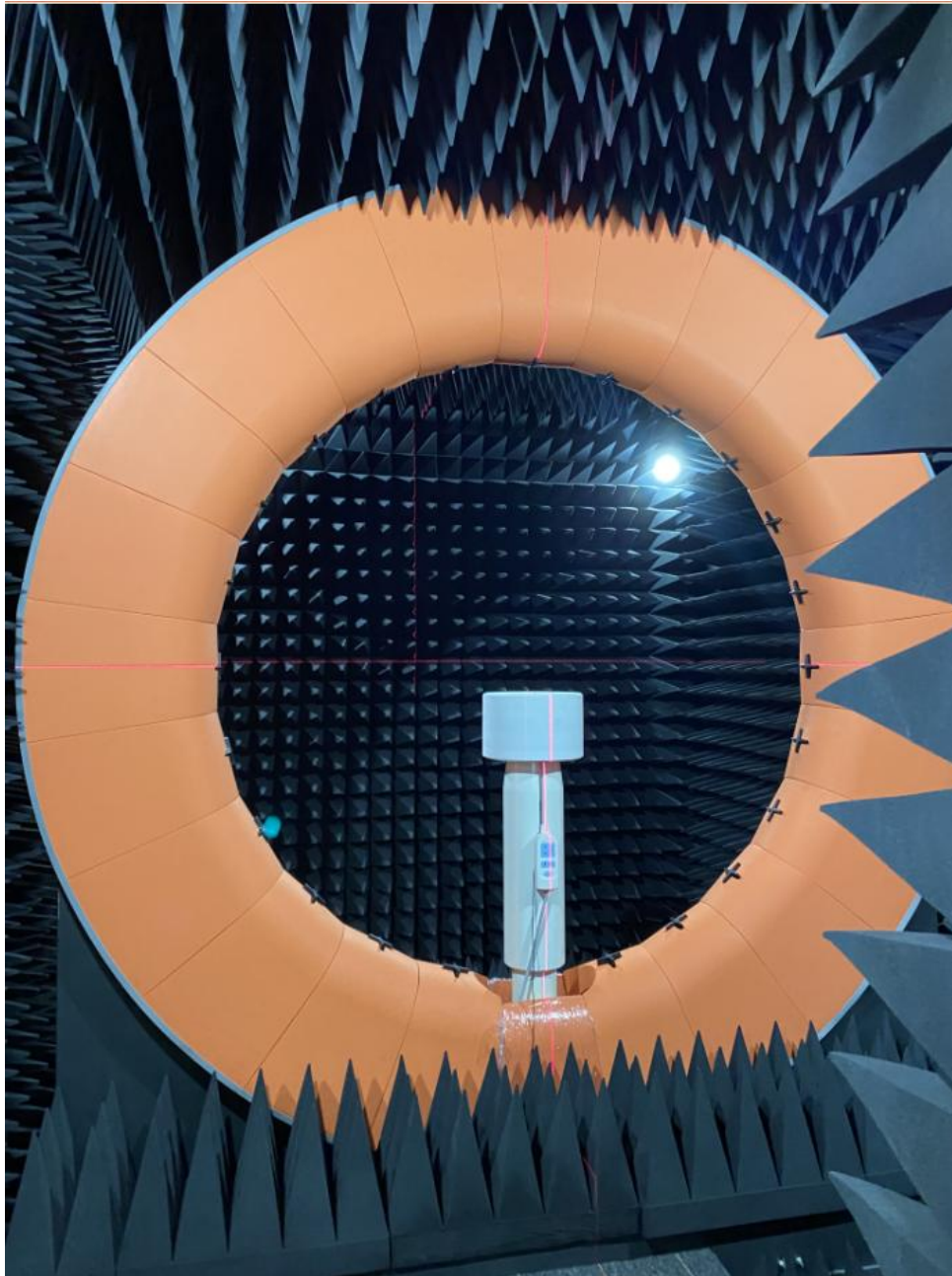


Agilent 8960 (2G/3G Test Equipment)



CMW 500 (2G/3G/4G Test Equipment)

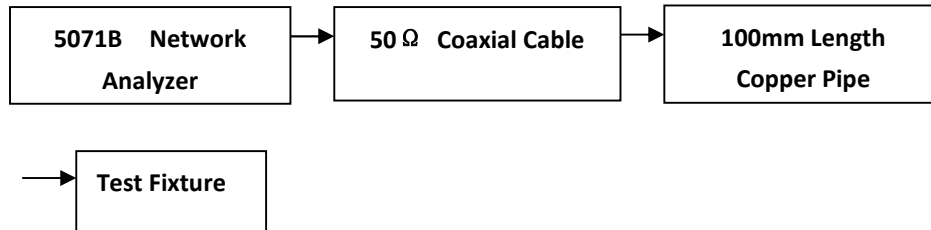
3. TestEnvironment



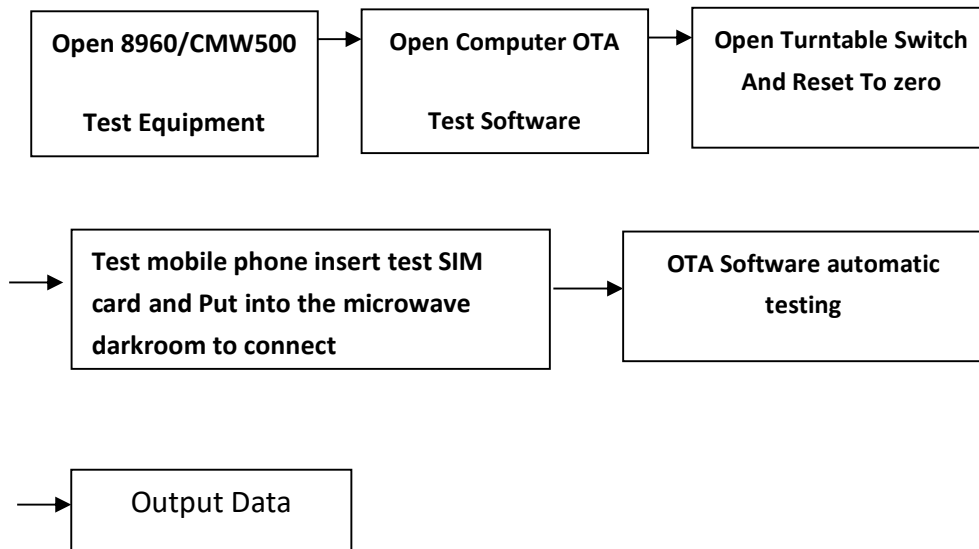
Anechoic Chamber

4.Test Steps

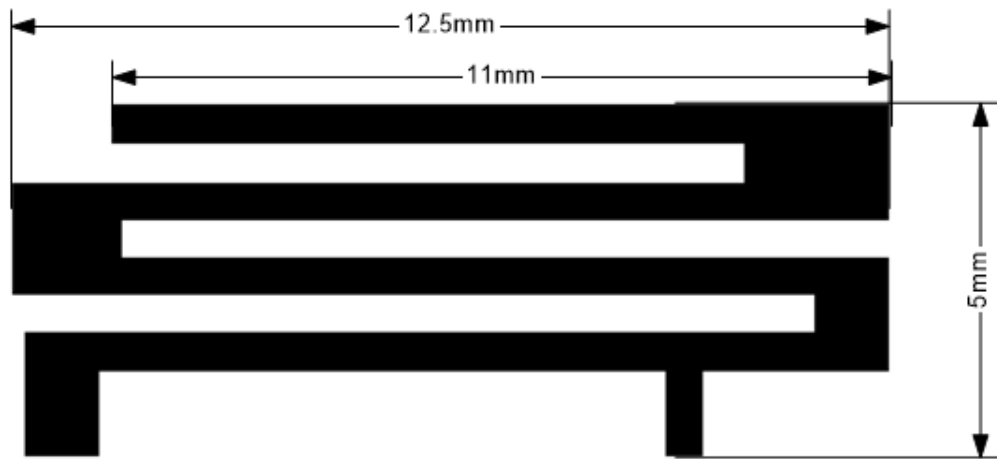
Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions



6.Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-3.85	-3.58	-3.39	-3.27	-3.22	-3.08	-3.18	-3.29	-3.46	-3.51	-3.66
Gain (dBi)	1.45	1.67	1.76	1.89	1.95	2.11	1.95	1.85	1.59	1.50	1.25
Efficiency (%)	41.20	43.87	45.86	47.12	47.62	49.21	48.12	46.85	45.07	44.62	43.07
Directivity (dB)	5.31	5.25	5.14	5.16	5.17	5.19	5.13	5.15	5.05	5.01	4.91
Peak Gain Position (Theta)	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
Peak Gain Position (Phi)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
Efficiency ThetaPol (%)	31.83	33.86	35.49	36.50	37.08	38.27	37.43	36.16	34.75	34.25	33.20
Efficiency PhiPol (%)	9.37	10.01	10.37	10.62	10.54	10.94	10.69	10.68	10.32	10.36	9.87
Upper Hem. Efficiency (%)	15.84	17.11	18.11	18.51	18.38	18.64	18.11	17.74	17.27	17.23	16.65
Lower Hem. Efficiency (%)	25.36	26.76	27.75	28.62	29.24	30.57	30.01	29.11	27.80	27.39	26.43
T90(H)圆度	11.38	11.04	10.81	10.70	10.39	9.93	9.55	9.13	9.41	9.79	10.39
Gain 15deg (dBi)											
E1(XZ)波谱宽度	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
E1(XZ)前后比	0.94	1.02	0.98	0.90	0.92	0.96	1.09	1.24	1.33	1.36	1.33
E2(YZ)波谱宽度	30.00	30.00	30.00	28.00	29.00	29.00	30.00	30.00	30.00	30.00	30.00
E2(YZ)前后比	6.30	6.44	6.55	6.52	6.47	6.44	6.57	6.52	6.49	6.54	6.49
最大增益处轴比(P)	3.11	3.26	3.20	3.25	3.33	3.35	3.55	3.73	3.75	3.71	3.65
顶点(Theta=0)处轴比(P)	8.18	11.33	11.14	11.84	12.25	14.83	21.39	29.28	14.70	12.64	12.44
仰角10度最差(大)轴比(P)	54.05	48.50	48.81	50.01	64.39	58.56	47.53	49.87	48.23	47.07	72.74
Hc(XY)波谱宽度	159.00	158.00	156.00	155.00	154.00	156.00	154.00	154.00	151.00	151.00	149.00
Hc(XY)前后比	0.00	0.05	0.00	0.07	0.08	0.00	0.02	0.09	0.19	0.25	0.28
左旋圆极化效率(%)	19.72	21.22	22.51	23.48	23.92	24.92	24.37	23.65	22.82	22.77	22.07
右旋圆极化效率(%)	21.48	22.65	23.35	23.64	23.70	24.29	23.75	23.20	22.25	21.85	21.01

