



深圳市中科无线技术有限公司

Shenzhen zhongke wireless technology Co.Ltd 电话: 0755-33118958

网址: www.zkant.com

测试报告 test report

客户名称 Customer Name: 优美

项目名称 Project Name: S21A

规格描述 Product Spec: LDS antenna

版 本 REV: V. 01

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制 作 drawing	审 核 check	批 准 approved
谭亲豪		



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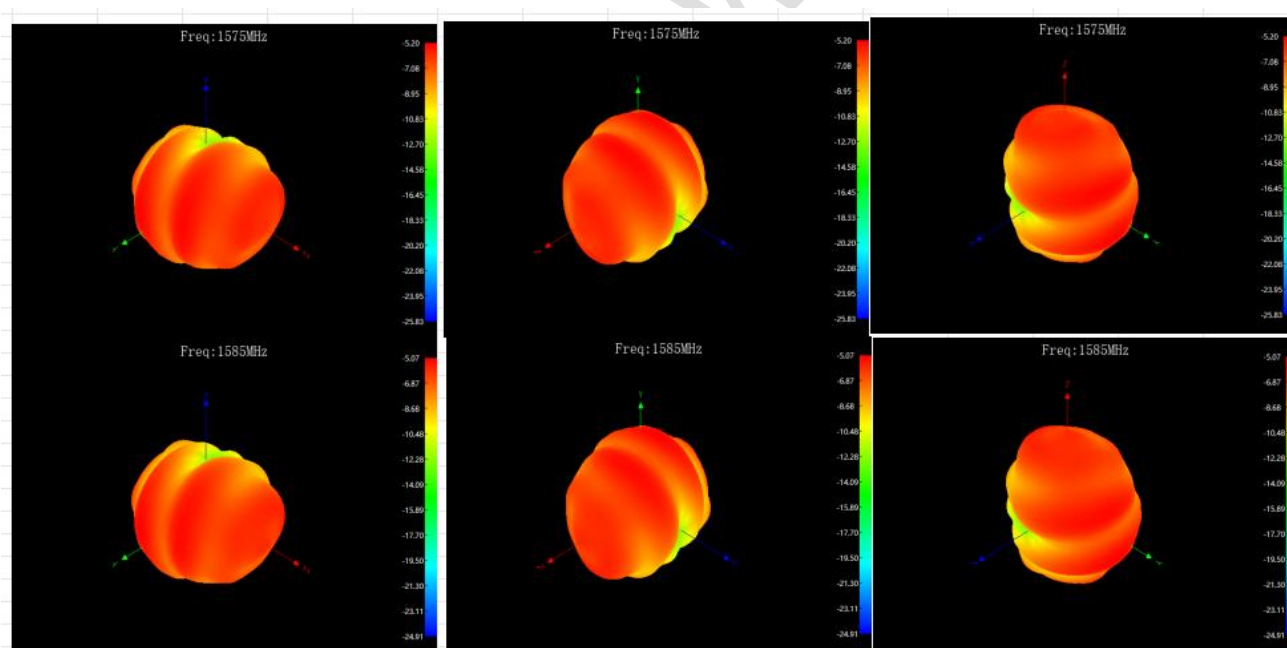
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2. Electrical Performance Index

GPS Raw data		
Frequency/Mhz	Efficiency / %	MaxGain/dBi
1570	16.03	-5.27
1575	16.11	-5.25
1580	16.18	-5.23
1585	16.29	-5.21
1590	16.33	-5.2
1595	16.37	-5.2
1600	16.37	-5.22
1605	16.41	-5.2
1610	16.44	-5.19
1615	16.56	-5.16
1620	16.71	-5.1

GPS antenna3D directional chart:





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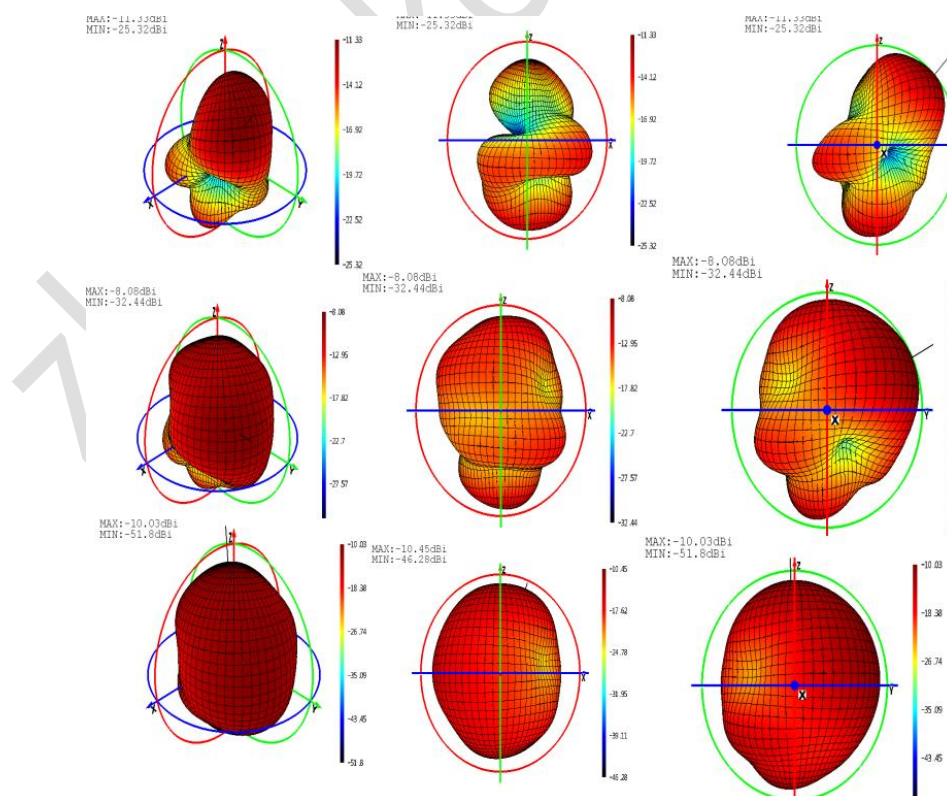
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2. Electrical Performance Index

4G passive data			4G passive data		
Frequency/Mhz	Efficiency / %	MaxGain/dBi	Frequency/Mhz	Efficiency / %	MaxGain/dBi
700	10.83	-11.33	2050	17.00	-4.08
750	12.01	-9.79	2100	18.00	-3.18
800	13.85	-8.08	2150	17.37	-3.19
850	13.42	-8.84	2200	14.66	-4.56
900	11.02	-10.03	2250	15.52	-5.30
950	11.33	-10.45	2300	15.41	-6.02
			2350	16.17	-5.76
1700	17.36	-2.51	2400	17.96	-6.10
1750	18.63	-3.95	2450	16.60	-6.34
1800	16.26	-3.37	2500	15.81	-4.50
1850	17.64	-1.65	2550	16.88	-4.51
1900	17.21	-2.26	2600	14.54	-4.21
1950	16.89	-2.61	2650	15.82	-4.83
2000	16.99	-2.66	2700	16.78	-4.59

4G antenna3D directional chart:



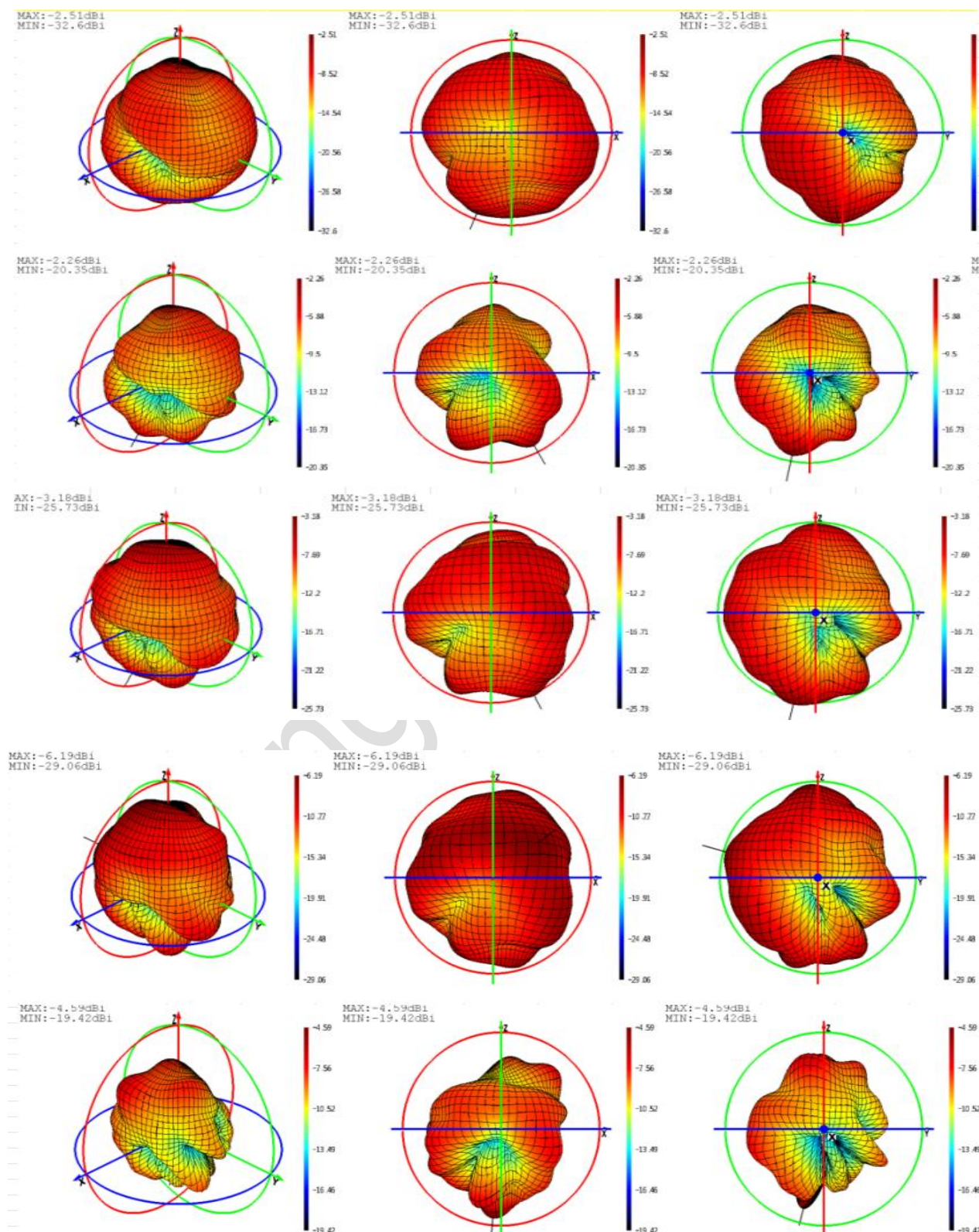


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4G antenna 3D directional chart:



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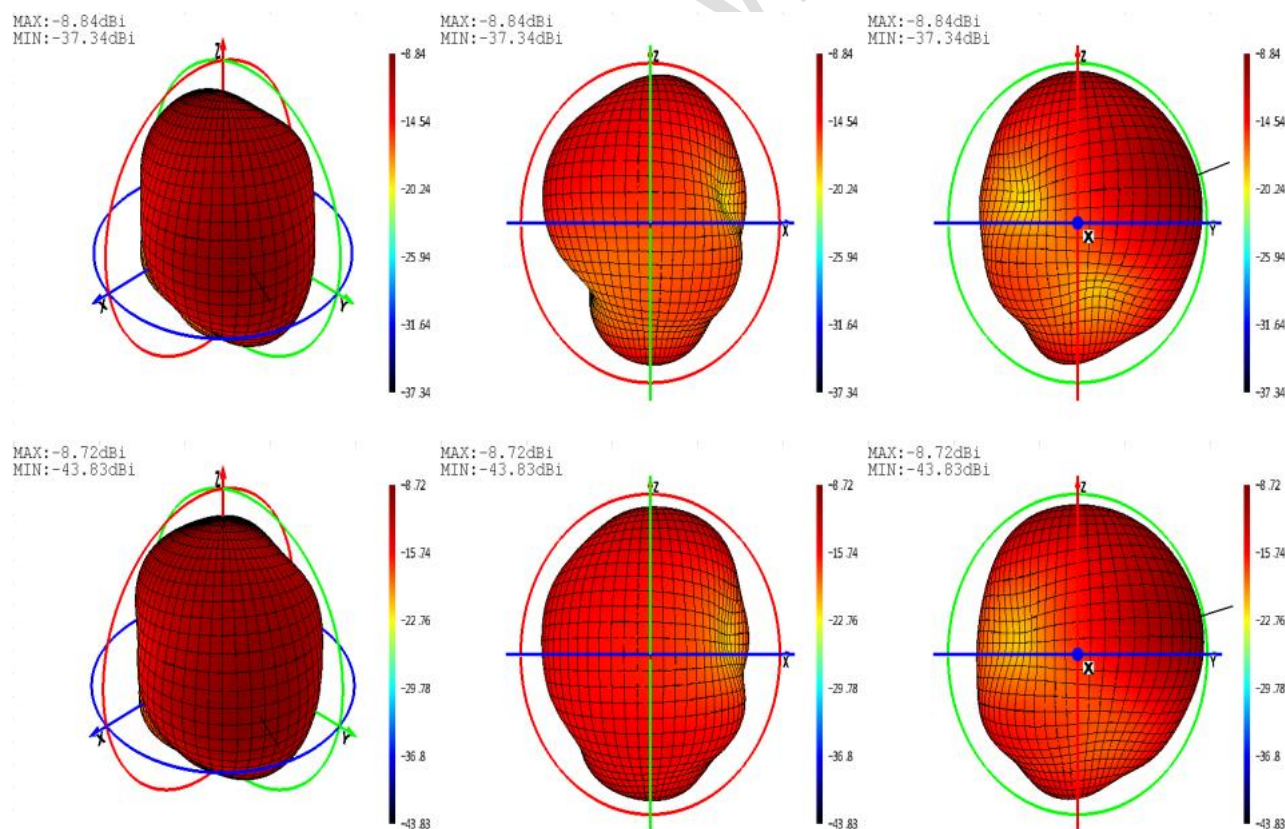
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2. Electrical Performance Index

B5 passive data		
Frequency/Mhz	Efficiency / %	MaxGain/dBi
820	12.33	-8.08
830	12.56	-8.14
840	13.25	-8.84
850	13.48	-8.26
860	12.49	-8.72
870	11.66	-10.03
880	12.58	-8.94
890	11.66	-8.73
900	11.47	-10.45

B5 antenna3D directional chart:





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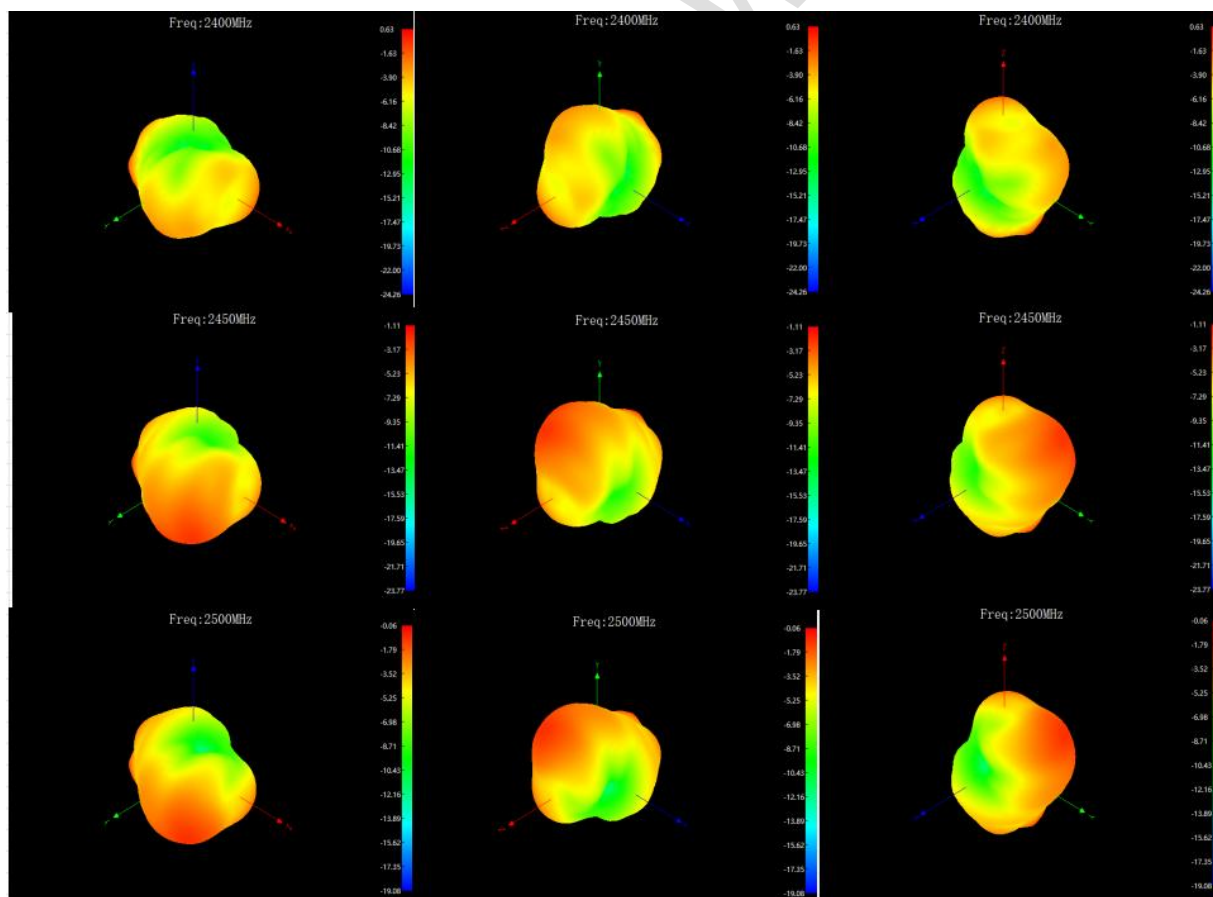
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2. Electrical Performance Index

2. 4G Raw data		
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	20.6	-6.09
2410	21.28	-6.33
2420	20.27	-6.15
2430	20.04	-6.19
2440	20.53	-5.93
2450	18.8	-6.42
2460	19.93	-6.21
2470	19.44	-6.3
2480	20.66	-6.08
2490	21.04	-6.19
2500	21.66	-6.26

4G antenna3D directional chart:



4. 测试设备及原理 Testing Equipment and Principle

1. 测试设备:

网络分析仪 Network Analyzers :

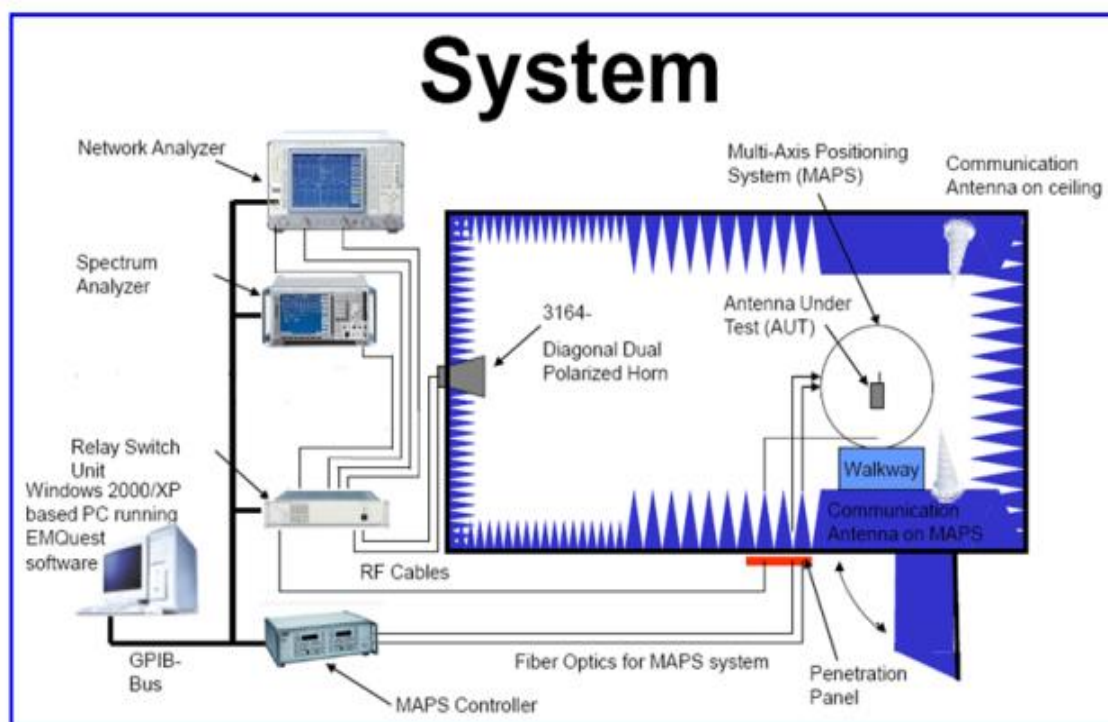
Agilent 8753D 5071B

综合测试仪 Communications Test Set:

Agilent E5515C

3D 暗室测试系统 3D Chamber Test System:

2. 测试原理:





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24 探头微波暗室测试设备



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Physical prototype