

Product specifications

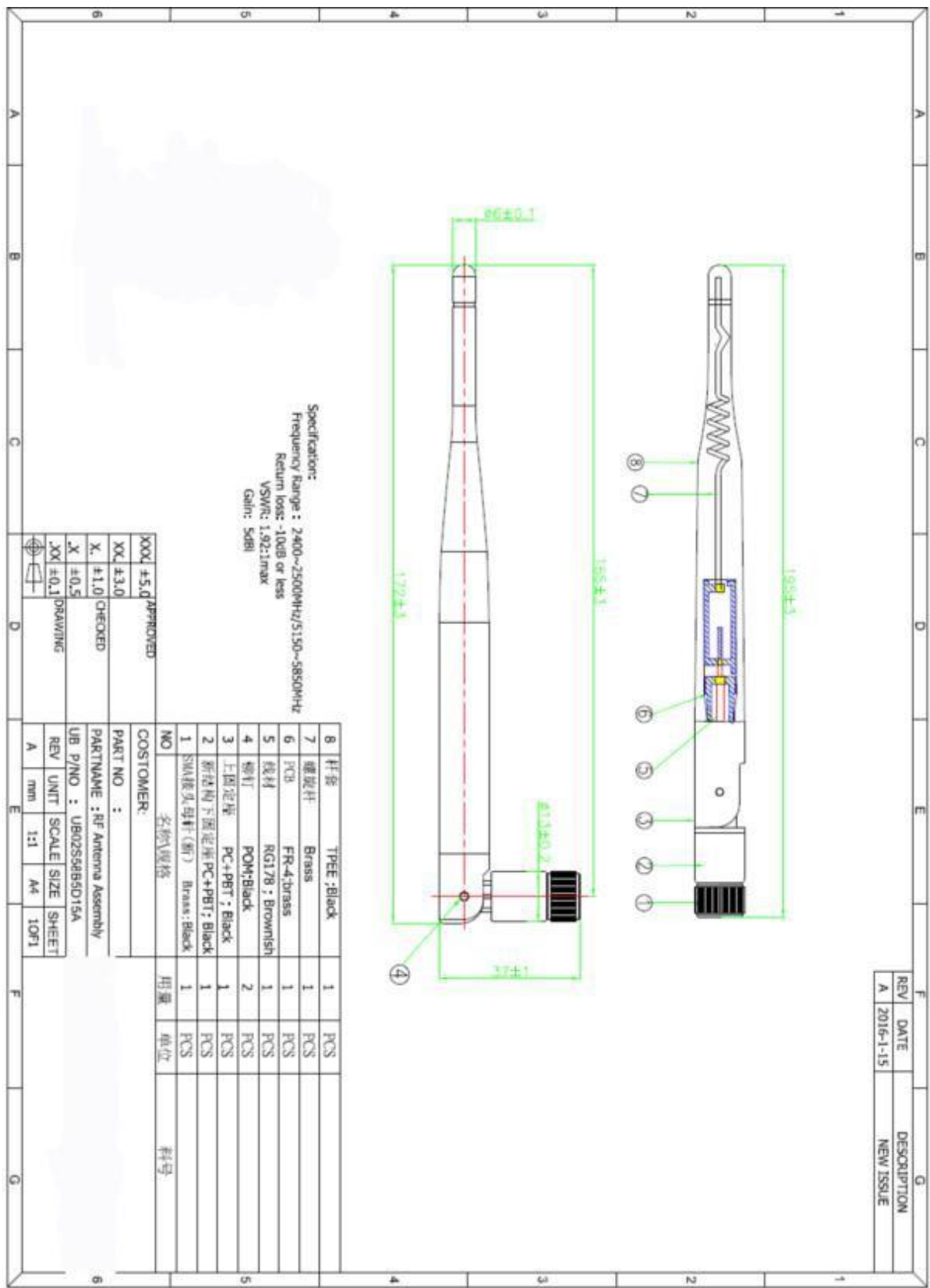
Name: WiFi antenna

Model: HJG196

I. Specification:

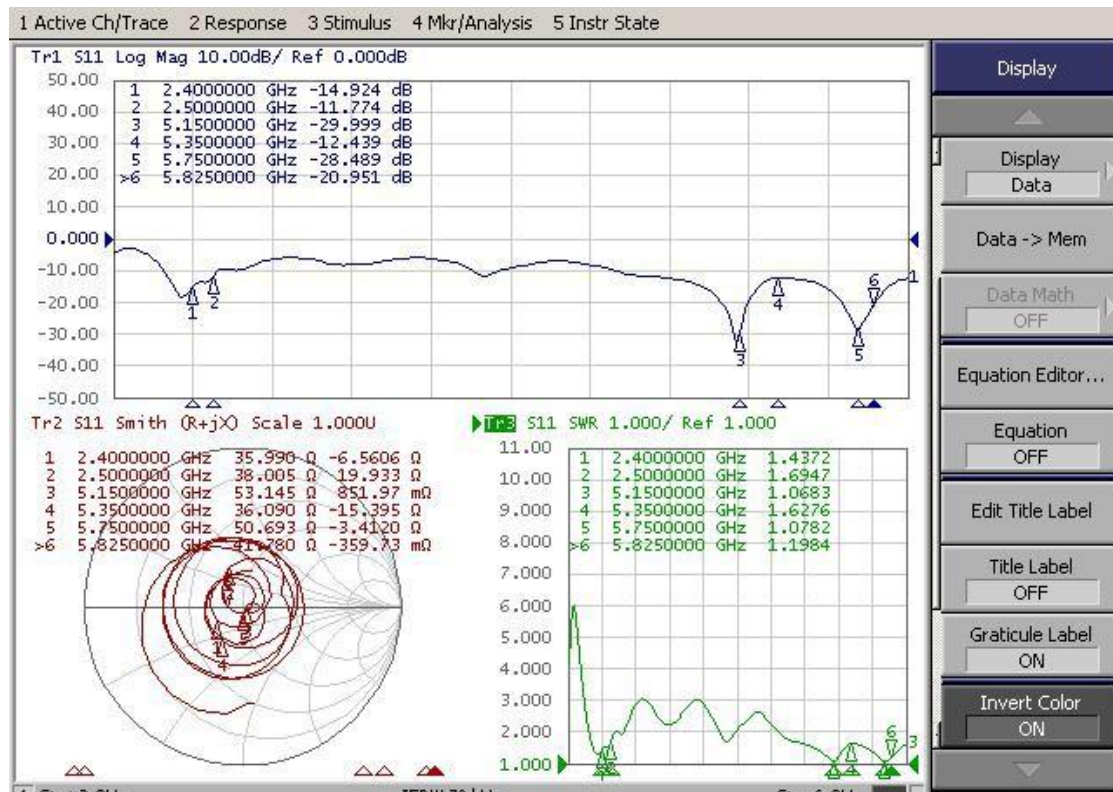
Main technical specifications	
Frequency Range (MHZ)	2400~2500 5150~5850
Impedance(Ω)	50
Gain(dBi)	5 ± 0.5
VSWR	≤ 1.92
Admitted Power	10W
Polarization	Linear, Vertical
Connector Type	SMA
Physical Properties	
Antenna Base	TPEE
Operating Temp	-45℃~+85℃
Storage Temp	-45℃~+85℃

II. Drawing:

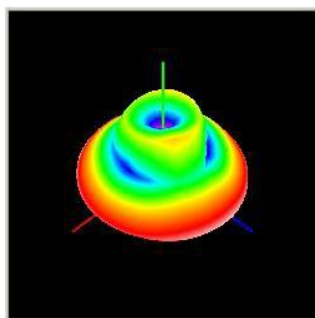


III. Test report

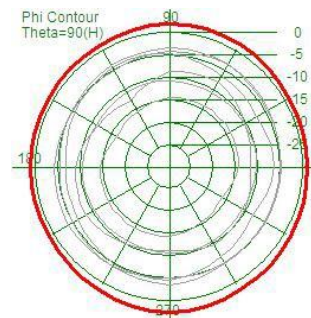
1. Network analysis device test report:



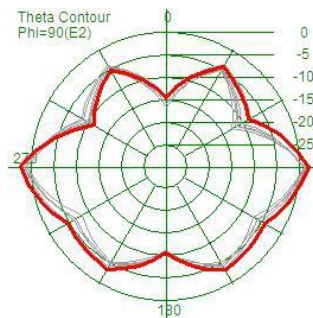
2. 2D、3DRadiation Pattern



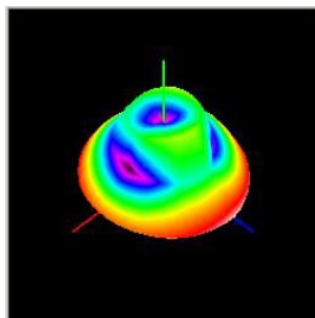
2.4GHz



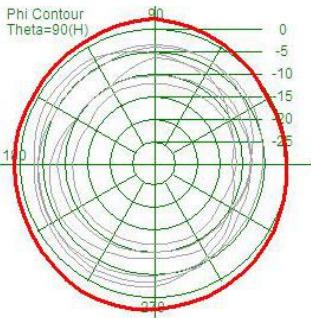
Gain: 4.52dBi



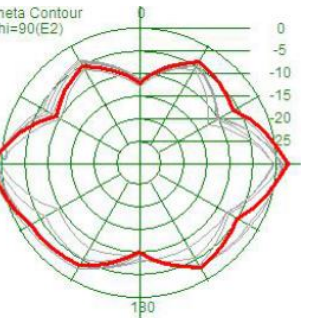
Efficiency: 70.15%



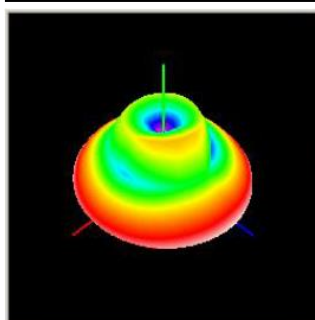
2.45GHz



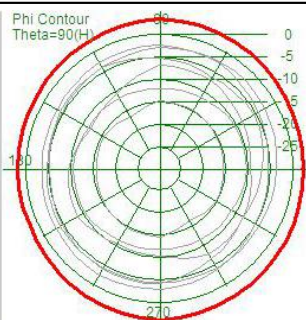
Gain: 4.64dBi



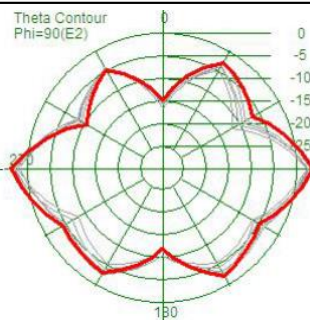
Efficiency: 73.23%



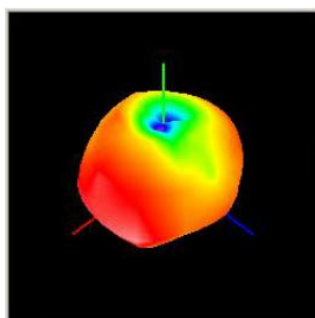
2.5GHz



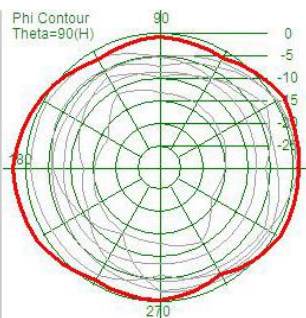
Gain: 4.69dBi



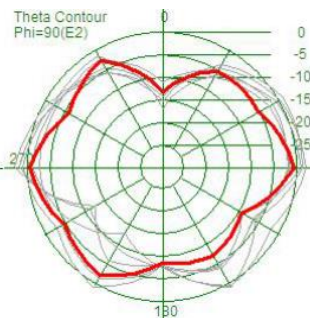
Efficiency: 74.09%



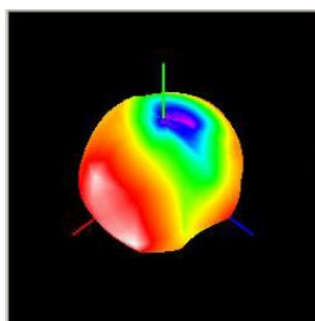
5.15GHz



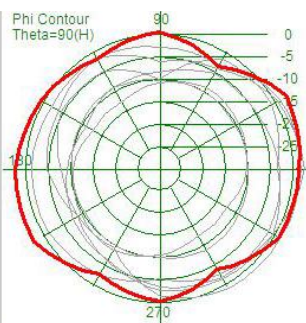
Gain: 4.58dBi



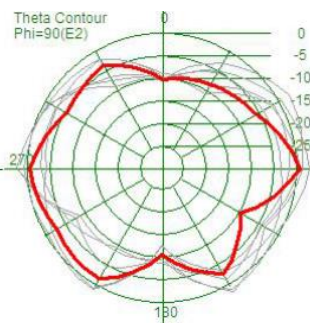
Efficiency: 70.86%



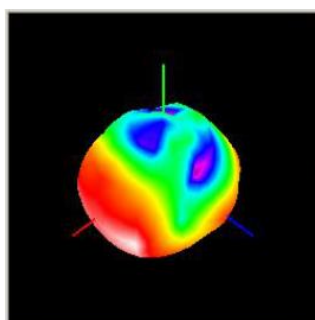
5.35GHz



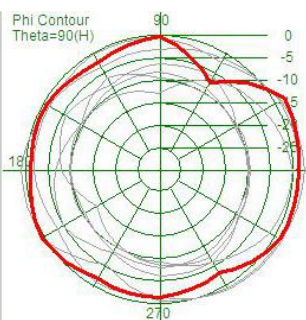
Gain: 4.65dBi



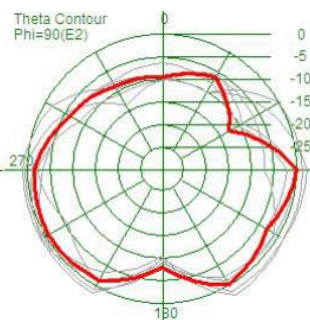
Efficiency: 70.49%



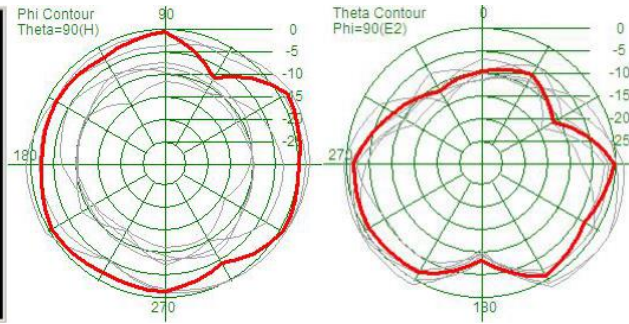
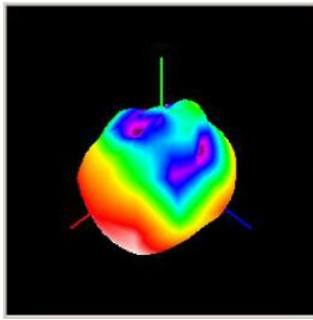
5.75GHz



Gain: 4.73dBi



Efficiency: 71.61%



5.825GHz

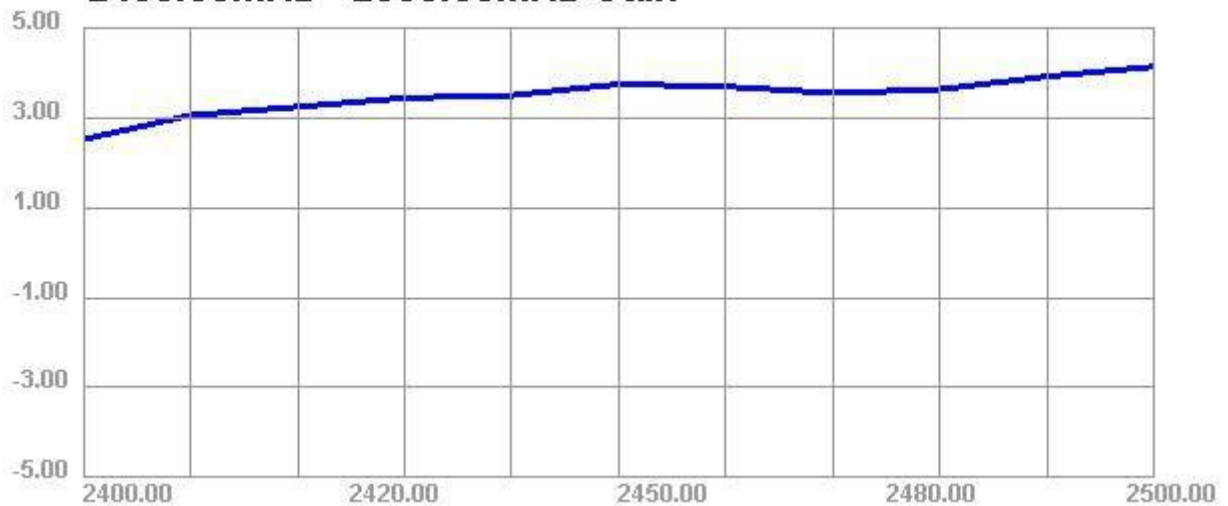
Gain: 4.68dBi

Efficiency: 72.37%

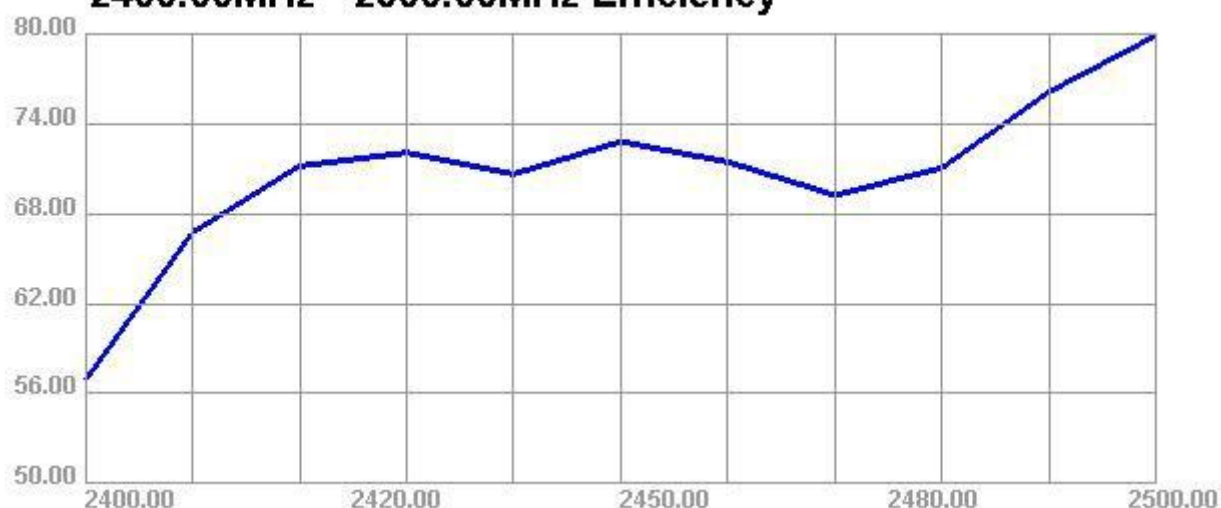
IV. Antenna test result

Passive Test For 2.4G								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	56.89	-2.45	2.52	0.37	2.52	-20.96	49.5	49.72
2410	66.74	-1.76	3.05	0.9	3.05	-19.57	49.89	50.19
2420	71.18	-1.48	3.24	1.09	3.24	-20.79	50.03	50.29
2430	72.07	-1.42	3.44	1.29	3.44	-22.18	49.9	50.15
2440	70.65	-1.51	3.5	1.35	3.5	-23.18	49.76	50.1
2450	72.8	-1.38	3.74	1.59	3.74	-22.77	49.86	50.05
2460	71.45	-1.46	3.69	1.54	3.69	-22.45	49.73	49.92
2470	69.24	-1.6	3.55	1.4	3.55	-22.94	49.6	49.81
2480	71.05	-1.48	3.63	1.48	3.63	-21.75	49.69	49.89
2490	76.12	-1.18	3.92	1.77	3.92	-19.93	49.94	50.14
2500	79.88	-0.98	4.13	1.98	4.13	-20.25	50.15	50.22

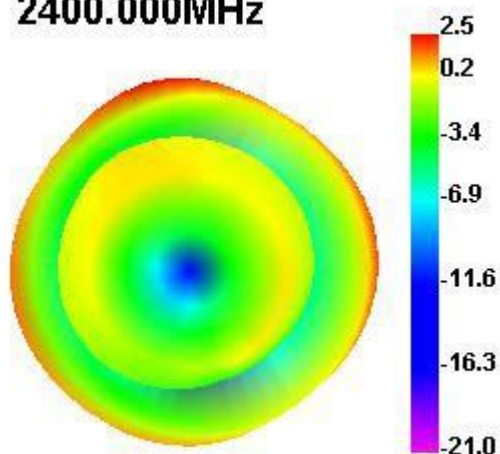
2400.00MHz - 2500.00MHz Gain



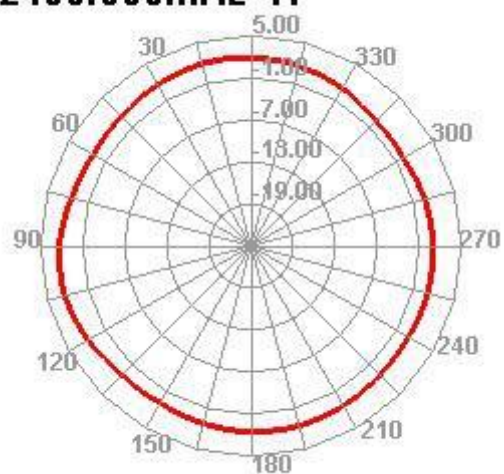
2400.00MHz - 2500.00MHz Efficiency



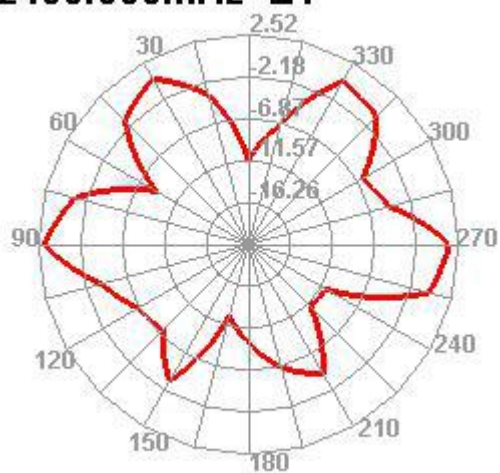
2400.000MHz



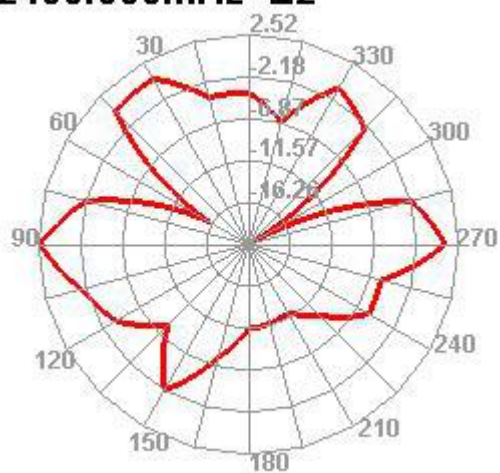
2400.000MHz H



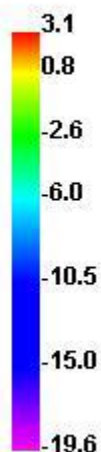
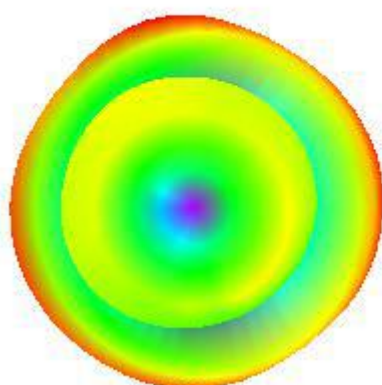
2400.000MHz E1



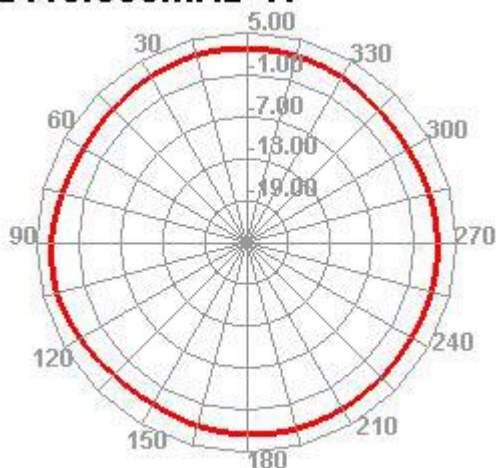
2400.000MHz E2



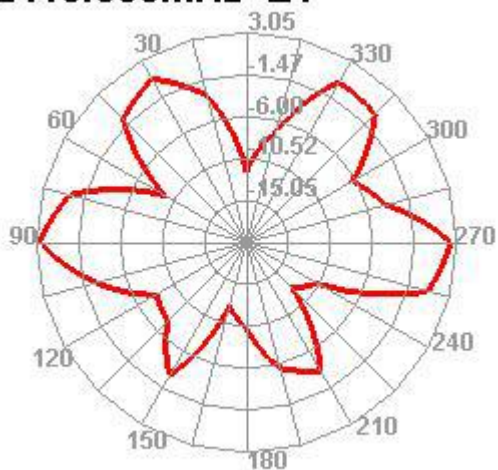
2410.000MHz



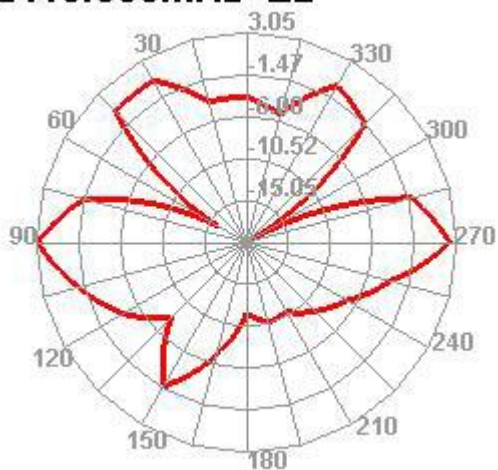
2410.000MHz H



2410.000MHz E1



2410.000MHz E2



V. Material

1.Body: ■TPEE; Black
2.Upper Base: ■PC; Black
3.Bottom Base: ■PBT; Black
4.Rivet: ■POM; Black
5. SMA: ■SMA Female



规格书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.5 米 4G+4G 双频 L52 圆形天线

客 户 料 号

CUSTOMER P/N: H8959

晟达电子料号

SD

P/N:

REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:		

Contents



<i>Item</i>	<i>Description</i>
1.-----	Specification Table
2.-----	Finished product image
3.-----	Test Report



1. Specification Table:

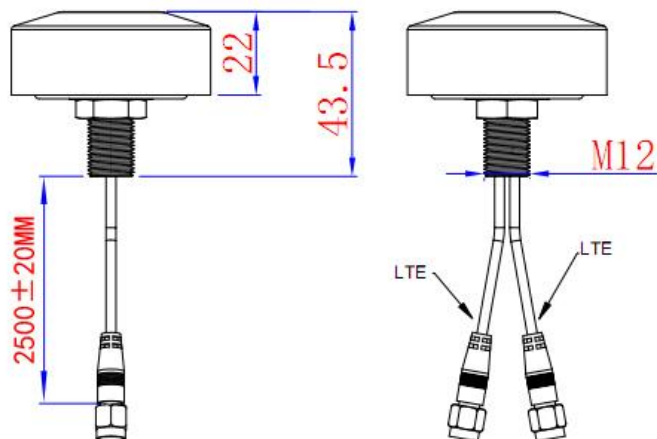
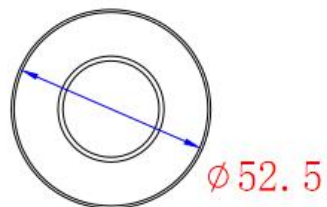
Main technical parameters of the product

4G 主要技术指标		Main technical specifications	
频率范围 (MHZ)	698-2700	Frequency Range (MHZ)	698-2700
特性阻抗(Ω)	50	Impedance(Ω)	50
峰值增益(dBi)	>2	Gain(dBi)	>2
输出电压 驻波比	≤ 3.0	VSWR	≤ 3.0
最大功率	50W	Admitted Power	50W
极化方式	垂直极化	Polarization	Linear, Vertical
连接方式	SMA 公头	Connector Type	SMA-Male
物理性能		Physical Properties	
天线本体材料	ABS	Antenna Base	ABS
天线尺寸(mm)	$\Phi 52*22\text{mm}$		
电缆线材	RG174	黑色	$2500 \pm 20\text{MM}$
工作温度	$-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$	Operating Temp	$-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
备注：规格书内容仅供参考，具体以送样品确认为准。			



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备注：规格书内容仅供参考，具体以送样品确认为准。			

2. Finished product image:

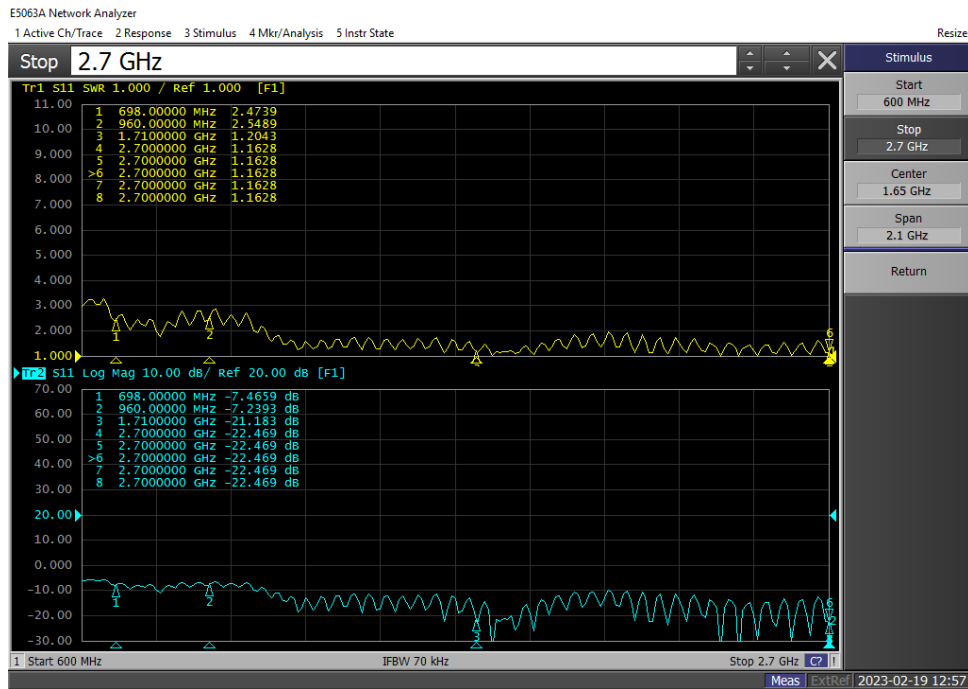




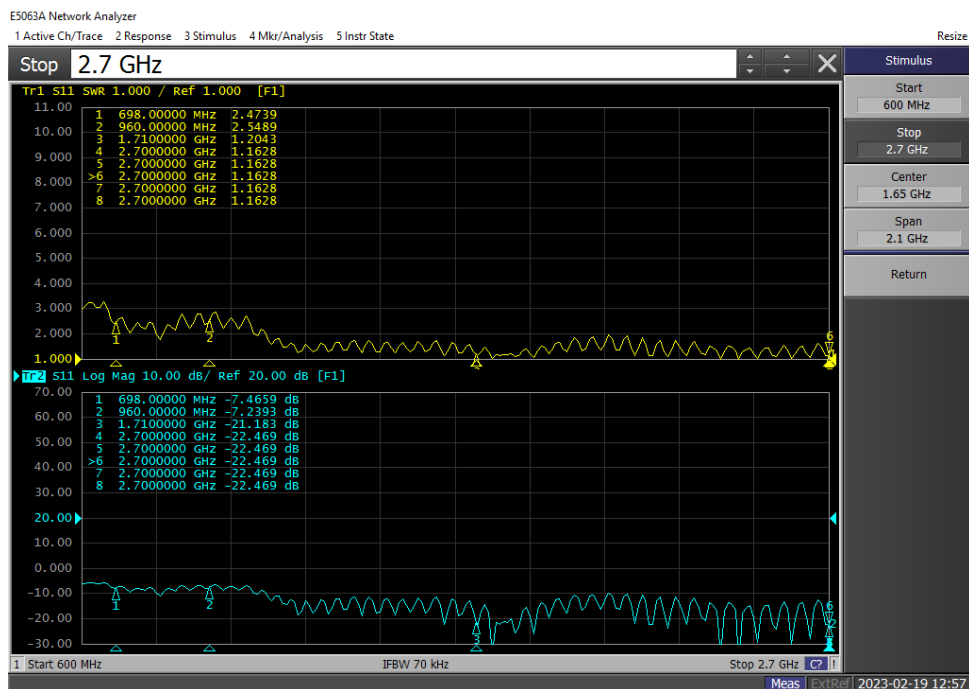
3. Test Report

3.1: Test the standing wave ratio and return loss with a network analyzer

4G(698-2700MHZ)



4G(698-2700MHZ)



Address: Room 501, Building 4, No. 5 Chuangye 4th Road, Zhangbei Community, Longcheng Street, Longgang District, Shenzhen, China
Phone: +86-755-89916753



3.2: 微波暗室 2D/3D 测试图

Passive Test For 0.7-6														
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dB)	Gain (dBi)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	JNR-d (dB)	AttH (dB)	AttV (dB)	AttV (dB)
700	33.3	-4.78	-0.37	-2.52	16.506	16.792	-0.37	-14.99	4.4	45	6.6	36.2	35.92	
705	44.62	-3.5	0.28	-1.87	21.215	23.403	0.28	-15.19	3.79	30	6.55	36.34	36.13	
710	50.97	-2.93	1.11	-1.04	22.723	28.247	1.11	-18.77	4.04	15	6.66	36.44	36.31	
715	51.42	-2.89	1.64	-0.51	21.3	30.124	1.64	-22.21	4.53	15	6.84	36.46	36.41	
720	49.84	-3.02	2.03	-0.12	19.297	30.544	2.03	-20.41	5.05	30	7	36.58	36.61	
725	49.08	-3.09	2.33	0.18	18.028	31.05	2.33	-17.36	5.42	30	7.04	36.72	36.79	
730	46.8	-3.3	2.38	0.23	16.634	30.166	2.38	-18.09	5.67	30	6.97	36.83	36.9	
735	43.07	-3.66	2.18	0.03	15.081	27.991	2.18	-19.56	5.84	30	6.96	37.03	37.09	
740	44.21	-3.55	2.39	0.24	15.52	28.685	2.39	-18.41	5.94	30	6.95	37.54	37.65	
745	41.55	-3.81	2.15	0	14.785	26.767	2.15	-19.36	5.96	30	6.94	37.82	38.01	
750	36.46	-4.38	1.54	-0.61	13.237	23.218	1.54	-22.14	5.92	30	6.75	38.18	38.44	
755	32.25	-4.91	0.88	-1.27	12.074	20.178	0.88	-26.18	5.79	30	6.65	38.44	38.74	
760	27.67	-5.58	-0.06	-2.21	10.874	16.797	-0.06	-20.5	5.52	30	6.4	38.72	39.02	
765	21.37	-6.7	-1.71	-3.86	9.042	12.33	-1.71	-16.26	4.99	30	5.93	38.81	39.08	
770	17.97	-7.45	-3.26	-5.41	8.361	9.608	-3.26	-19.94	4.2	30	5.44	38.77	39	
775	17.38	-7.6	-3.66	-5.81	8.834	8.544	-3.66	-21.21	3.94	30	5.08	38.95	39.14	
780	18.28	-7.38	-3.56	-5.71	9.558	8.721	-3.56	-20.67	3.82	45	7.87	39.08	39.22	
785	20.59	-6.86	-2.33	-4.48	9.963	10.63	-2.33	-20.12	4.53	60	13.7	38.88	38.96	
790	24.46	-6.12	-0.75	-2.9	10.147	14.309	-0.75	-23.61	5.37	60	9.57	39.07	39.13	
795	27.62	-5.59	0.2	-1.95	9.999	17.62	0.2	-17.22	5.79	45	4.98	39.36	39.41	
800	26.85	-5.71	0.31	-1.84	9.067	17.782	0.31	-15.27	6.02	45	6.26	39.46	39.51	
805	25.05	-6.01	0.07	-2.08	8.388	16.658	0.07	-17.22	6.08	45	7.21	39.57	39.65	
810	23.65	-6.26	-0.26	-2.41	8.14	15.514	-0.26	-20.28	6	45	8.97	39.96	40.03	
815	19.18	-7.17	-1.34	-3.49	6.902	12.279	-1.34	-19.96	5.84	45	10.34	39.76	39.79	
820	17.71	-7.52	-1.55	-3.7	6.698	11.015	-1.55	-19.39	5.97	45	11.74	39.87	39.86	
825	15.75	-8.03	-1.95	-4.1	6.253	9.494	-1.95	-18.77	6.08	45	13.19	40.09	40.01	
830	13.25	-8.78	-2.62	-4.77	5.497	7.755	-2.62	-20.35	6.16	45	14.35	40.04	39.9	
835	11.95	-9.23	-3.09	-5.24	5.156	6.79	-3.09	-21.59	6.14	45	15.54	40.01	39.78	
840	9.78	-10.1	-4.02	-6.17	4.371	5.411	-4.02	-23.86	6.08	45	16.81	39.91	39.58	
845	7.97	-10.99	-5	-7.15	3.682	4.288	-5	-25.52	5.99	45	17.32	39.57	39.11	
850	7.61	-11.19	-5.35	-7.5	3.628	3.977	-5.35	-26.14	5.84	45	17.33	39.65	39.09	
855	6.84	-11.65	-6.02	-8.17	3.36	3.481	-6.02	-26.56	5.63	45	16.85	39.83	39.22	
860	6.48	-11.89	-6.5	-8.65	3.272	3.206	-6.5	-27.19	5.38	45	16.92	39.81	39.2	
865	6.66	-11.77	-6.66	-8.81	3.45	3.21	-6.66	-26.85	5.11	45	16.64	39.85	39.27	
870	6.49	-11.88	-7.03	-9.18	3.45	3.04	-7.03	-27.26	4.85	45	16.85	40.14	39.59	
875	5.85	-12.33	-7.71	-9.86	3.198	2.65	-7.71	-27.77	4.62	75	16.86	39.89	39.35	
880	5.9	-12.29	-7.89	-10.04	3.334	2.57	-7.89	-26.76	4.4	75	15.85	39.96	39.44	
885	5.6	-12.52	-8.2	-10.35	3.282	2.314	-8.2	-24.02	4.32	75	12.9	40.05	39.56	
890	5.26	-12.79	-8.49	-10.64	3.188	2.068	-8.49	-20.62	4.3	45	9.12	39.85	39.39	
895	5.3	-12.76	-8.38	-10.53	3.232	2.064	-8.38	-20.76	4.38	30	5.2	39.73	39.31	
900	5.8	-12.37	-8.23	-10.38	3.247	2.549	-8.23	-22.81	4.13	30	3.33	39.59	39.19	
905	7.98	-10.98	-6.62	-8.77	3.487	4.492	-6.62	-26.2	4.36	15	3.77	39.19	38.8	
910	13.65	-8.65	-4.37	-6.52	4.553	9.101	-4.37	-23.25	4.27	30	4.58	39.21	38.84	
915	17.97	-7.45	-3.35	-5.5	5.551	12.419	-3.35	-19.71	4.1	30	5.88	39.35	39	
920	17.38	-7.6	-3.38	-5.53	5.667	11.715	-3.38	-27.82	4.22	30	7.12	39.3	38.97	
925	15.67	-8.05	-3.94	-6.09	5.552	10.12	-3.94	-25.23	4.11	90	8.62	39.31	38.96	
930	15.33	-8.14	-4.25	-6.4	5.883	9.449	-4.25	-19.3	3.89	90	9.98	39.58	39.19	
960	8.13	-10.9	-6.12	-8.27	5.271	2.863	-6.12	-25.68	4.78	30	9.07	39.2	39	
965	8.07	-10.93	-6.24	-8.39	5.532	2.539	-6.24	-26.05	4.69	30	9.95	39.16	39.01	
970	7.33	-11.35	-6.79	-8.94	5.134	2.193	-6.79	-22.74	4.56	30	10.29	39.06	38.9	
975	7.71	-11.13	-6.61	-8.76	5.385	2.323	-6.61	-22.09	4.52	30	11.64	39.11	38.94	
980	8.81	-10.55	-6.29	-8.44	6.055	2.753	-6.29	-22.75	4.26	30	12.82	39.12	38.97	
985	8.52	-10.7	-6.58	-8.73	5.742	2.777	-6.58	-24.81	4.12	30	14.62	39.02	38.89	
990	8.72	-10.59	-6.54	-8.69	5.765	2.955	-6.54	-24.43	4.05	30	14.35	39.1	38.99	
995	10.09	-9.96	-6	-8.15	6.57	3.519	-6	-23.66	3.97	30	14.12	39.42	39.28	
1000	9.92	-10.04	-6.19	-8.34	6.385	3.532	-6.19	-22.83	3.85	15	13.13	39.53	39.31	
1005	9.77	-10.1	-6.36	-8.51	6.241	3.531	-6.36	-22.13	3.74	30	11.6	39.64	39.32	
1010	10.04	-9.98	-6.38	-8.53	6.385	3.654	-6.38	-23.36	3.6	30	10.19	39.6	39.22	
1015	10.21	-9.91	-6.43	-8.58	6.479	3.726	-6.43	-25.37	3.49	15	8.89	39.7	39.29	
1020	10.1	-9.95	-6.56	-8.71	6.405	3.699	-6.56	-28.23	3.39	15	7.7	39.68	39.27	
1025	10.46	-9.8	-6.48	-8.63	6.617	3.847	-6.48	-29.84	3.32	45	6.94	39.62	39.21	
1030	11.18	-9.51	-6.26	-8.41	7.041	4.142	-6.26	-29.74	3.26	45	6.36	39.84	39.39	
1035	11.46	-9.41	-6.21	-8.36	7.158	4.306	-6.21	-28.03	3.2	45	5.91	39.92	39.44	
1040	11.75	-9.3	-6.18	-8.33	7.267	4.486	-6.18	-26.91	3.12	45	6.19	39.7	39.23	
1045	12.75	-8.94	-5.8	-7.95	7.795	4.954	-5.8	-25.45	3.15	45	6.36	39.86	39.43	
1050	12.59	-9	-5.85	-8	7.611	4.981	-5.85	-24.34	3.15	45	6.61	40	39.63	
1055	11.86	-9.26	-6.12	-8.27	7.086	4.777	-6.12	-23.46	3.14	45	6.96	39.63	39.32	
1060	13.02	-8.85	-5.7	-7.85	7.686	5.339	-5.7	-21.56	3.15	45	7.49	39.61	39.36	
1065	14.06	-8.52	-5.37	-7.52	8.148	5.907	-5.37	-19.38	3.15	60	8.22	39.98	39.78	
1070	12.39	-9.07	-6.02	-8.17	6.935	5.45	-6.02	-19.69	3.05	45	9.72	39.74	39.57	
1075	8.54	-10.69	-6.94	-9.09	4.385	4.154	-6.94	-23.88	3.75	90	14.93	39.59	39.41	
1080	5.13	-12.9	-8.04	-10.19	2.314	2.813	-8.04	-30.33	4.86	60	20.93	40.03	39.83	
1085	4.15	-13.82	-9.64	-11.79	1.883	2.262	-9.64	-30.15	4.18	90	11.46	39.95	39.71	
1090	5.33	-12.73	-9.01	-11.16	2.556	2.778	-9.01	-29.11	3.72	30	7.95	39.99	39.69	
1095	7.02	-11.54	-7.92	-10.07	3.469	3.548	-7.92	-24.84	3.61	30	6.38	40.42	40.08	
1100	7.18	-11.44	-7.61	-9.76	3.608	3.569	-7.61	-21.49	3.83	30	5.35	40.6	40.21	
1105	8.22	-10.85	-7.05	-9.2	4.161	4.062	-7.05	-18.78	3.8	30	6.5	40.55	40.13	
1110	8.91	-10.5	-6.79	-8.94	4.501	4.406	-6.79	-18.22	3.72	30	7.72	40.46	40.06	
1115	8.67	-10.62	-7.18	-9.33	4.345	4.328	-7.18	-18.58	3.44	30	8.87	40.49	40.12	
1120	9.65	-10.16	-6.9	-9.05	4.772	4.875	-6.9	-18.68	3.26	30	9.5	40.38	40.04	
1125	10.14	-9.94	-6.52	-8.67	4.931	5.208	-6.52	-18.67	3.42	30	9.91	40.32	40.03	
1130	9.63	-10.16	-6.7	-8.85	4.586	5.045	-6.7	-18.53	3.46	30	9.68	40.4	40.18	
1135	10.65	-9.73	-6.19	-8.34	4.965	5.681	-6.19	-19.18	3.54	15	9.18	40.38	40.23	
1140	11.12	-9.54	-6	-8.15	5.081	6.035	-6	-20.89	3.54	45	8.37	40.29	40.22	
1145	10.85	-9.64	-6.21	-8.36	4.885	5.969	-6.21	-21.91	3.44	45	7.42	40.35	40.32	
1150	12.34	-9.09	-5.83	-7.98	5.504	6.831	-5.83	-20.82	3.26	45	6.47	40.37	40.35	
1155	13.72	-8.62	-5.34	-7.49	6.114	7.611	-5.34	-19.96	3.28	45	5.53	40.38	40.34	
1160	15.52													



深圳市晟达通讯有限公司

Shenzhen ShengDa Communication Co., Ltd

1200	38.45	-4.15	-0.33	-2.48	19.155	19.295	-0.33	-13.28	3.83	15	3.7	40.74	40.69
1205	30.44	-5.17	-1.35	-3.5	15.3	15.141	-1.35	-14.17	3.81	15	3.71	40.76	40.72
1210	25.2	-5.99	-2.22	-4.37	12.749	12.453	-2.22	-14.48	3.77	15	3.77	40.94	40.93
1215	19.62	-7.07	-3.34	-5.49	9.961	9.658	-3.34	-14.47	3.73	30	3.86	40.84	40.82
1220	15.1	-6.21	-4.55	-6.7	7.675	7.422	-4.55	-14.45	3.67	30	4.08	40.87	40.83
1225	13.05	-6.84	-5.32	-7.47	6.609	6.443	-5.32	-14.07	3.53	30	4.41	41.19	41.12
1230	10.87	-9.64	-6.4	-8.55	5.494	5.377	-6.4	-15.8	3.24	30	5.1	41.21	41.11
1235	9.6	-10.18	-6.76	-8.91	4.869	4.735	-6.76	-17.72	3.42	30	6.72	41.11	40.98
1240	11.15	-9.53	-5.63	-7.78	5.749	5.404	-5.63	-16.14	3.89	30	9.51	41.45	41.29
1245	13.54	-6.68	-4.62	-6.77	7.18	6.364	-4.62	-18.53	4.06	60	12.53	41.56	41.38
1250	16.73	-7.77	-4.02	-6.17	9.145	7.581	-4.02	-18.29	3.74	15	12.92	41.29	41.11
1255	21.73	-6.63	-3.25	-5.4	12.18	9.55	-3.25	-21.28	3.38	15	9.95	41.44	41.29
1260	22.87	-6.41	-2.61	-4.76	13.022	9.845	-2.61	-18.85	3.8	15	8.88	41.75	41.61
1265	18.4	-7.35	-3.32	-5.47	10.517	7.878	-3.32	-19.13	4.03	15	9.2	41.68	41.53
1270	15.35	-8.14	-4.07	-6.22	8.704	6.643	-4.07	-18.1	4.07	45	8.81	41.68	41.5
1275	13.73	-6.62	-4.69	-6.84	7.635	6.098	-4.69	-20.34	3.94	45	8.52	41.94	41.74
1280	11.2	-9.51	-5.8	-7.95	6.037	5.164	-5.8	-22.06	3.71	30	8.34	41.93	41.71
1285	9.75	-10.11	-6.55	-8.7	5.054	4.692	-6.55	-21.43	3.56	30	8.39	41.75	41.53
1290	10.18	-9.92	-5.65	-7.8	5.039	5.141	-5.65	-20.03	4.27	30	8.62	41.89	41.67
1295	10.5	-9.79	-4.79	-6.94	4.931	5.568	-4.79	-20.03	5	30	9.12	42.01	41.79
1300	10.9	-9.62	-3.99	-6.14	4.843	6.061	-3.99	-18.61	5.64	30	9.75	41.96	41.75
1305	12.95	-6.88	-2.77	-4.92	5.456	7.494	-2.77	-17.82	6.1	30	10.44	42.04	41.84
1310	14.03	-6.53	-2.08	-4.23	5.641	8.393	-2.08	-17.72	6.45	30	11.02	41.94	41.75
1315	13.51	-6.69	-2	-4.15	5.232	8.279	-2	-18.72	6.7	45	11.25	41.5	41.36
1320	15.65	-6.06	-1.22	-3.37	5.903	9.746	-1.22	-18.7	6.84	45	11.24	41.63	41.53
1325	17.55	-7.56	-0.63	-2.78	6.508	11.043	-0.63	-18.64	6.92	45	10.99	42.01	41.91
1330	16.56	-7.81	-0.84	-2.99	6.088	10.468	-0.84	-19.47	6.97	45	10.81	41.92	41.82
1335	17.47	-7.58	-0.56	-2.71	6.424	11.047	-0.56	-20.28	7.01	45	10.83	41.84	41.77
1340	19.64	-7.07	-0.03	-2.18	7.29	12.347	-0.03	-18.26	7.04	45	10.97	42.29	42.23
1345	17.52	-7.56	-0.42	-2.57	6.613	10.907	-0.42	-19.08	7.14	45	11.12	42.1	42.05
1350	18.73	-7.27	0.01	-2.14	7.225	11.509	0.01	-18.54	7.29	45	11.15	42.09	42.06
1355	20.63	-6.86	0.47	-1.68	8.161	12.467	0.47	-17.2	7.33	45	11.08	42.36	42.33
1360	18.84	-7.25	0.06	-2.09	7.642	11.196	0.06	-19.99	7.31	45	10.78	42.44	42.41
1365	18.69	-7.28	-0.09	-2.24	7.781	10.906	-0.09	-23.26	7.19	45	10.22	42.38	42.32
1370	19.15	-7.18	-0.15	-2.3	8.181	10.972	-0.15	-25.1	7.03	45	9.96	42.38	42.29
1375	17.45	-7.58	-0.74	-2.89	7.654	9.795	-0.74	-23.74	6.84	45	9.69	42.34	42.23
1380	18.17	-7.41	-0.85	-3	8.186	9.98	-0.85	-21.14	6.56	45	9.15	42.42	42.28
1385	19.26	-7.15	-0.87	-3.02	8.929	10.327	-0.87	-19.1	6.28	45	8.26	42.46	42.28
1390	18.88	-7.24	-1.34	-3.49	9.035	9.846	-1.34	-18.55	5.9	45	7.37	42.58	42.37
1395	19.44	-7.11	-1.6	-3.75	9.64	9.795	-1.6	-17.14	5.52	45	6.75	42.62	42.4
1400	19.88	-7.01	-1.88	-4.03	10.229	9.655	-1.88	-17.11	5.14	30	6.95	42.58	42.34
1405	18.48	-7.33	-2.46	-4.61	9.811	8.671	-2.46	-16.93	4.87	30	7.62	42.68	42.39
1410	17.67	-7.53	-2.6	-4.75	9.482	8.19	-2.6	-16.45	4.93	30	8.48	42.76	42.38
1415	18.28	-7.38	-1.83	-3.98	9.374	8.91	-1.83	-15.35	5.55	30	8.07	42.71	42.23
1420	20.3	-6.93	-0.54	-2.69	9.26	11.037	-0.54	-15.51	6.39	30	7.52	42.76	42.2
1425	24.57	-6.1	0.52	-1.63	10.138	14.434	0.52	-18.6	6.61	30	7.13	42.96	42.34
1430	29.17	-5.35	0.93	-1.22	11.66	17.508	0.93	-19.74	6.28	30	6.92	43	42.38
1435	32.08	-4.94	0.88	-1.27	12.886	19.198	0.88	-20.13	5.81	30	6.8	42.95	42.35
1440	33.23	-4.78	0.56	-1.59	13.563	19.671	0.56	-20.88	5.35	30	6.67	43.05	42.47
1445	34.16	-4.67	0.22	-1.93	14.185	19.973	0.22	-19.82	4.89	30	6.54	43.19	42.62
1500	34.05	-4.68	0.11	-2.04	16.856	17.196	0.11	-15.47	4.79	0	8.49	43.19	42.64
1505	32.55	-4.87	-0.01	-2.16	16.387	16.165	-0.01	-16.07	4.87	0	8.63	43.28	42.71
1510	32.8	-4.84	0.15	-2	16.701	16.099	0.15	-16.39	4.99	75	8.67	43.19	42.61
1515	33.4	-4.76	0.4	-1.75	17.148	16.253	0.4	-16.21	5.16	15	8.46	43.15	42.59
1520	33.63	-4.73	0.62	-1.53	17.442	16.193	0.62	-15.65	5.35	15	7.97	43.2	42.67
1525	34.92	-4.57	0.91	-1.24	18.278	16.64	0.91	-14.76	5.47	15	7.39	43.22	42.71
1530	35.88	-4.45	1.12	-1.03	18.979	16.9	1.12	-14.05	5.57	15	6.67	43.15	42.66
1535	36.68	-4.36	1.23	-0.92	19.557	17.124	1.23	-16.26	5.59	105	6.15	43.08	42.62
1540	37.75	-4.23	1.25	-0.9	20.164	17.588	1.25	-16.93	5.48	60	5.69	43.06	42.64
1545	38.31	-4.17	1.1	-1.05	20.279	18.036	1.1	-16.13	5.26	60	5.39	43.06	42.7
1550	38.9	-4.1	0.86	-1.29	20.103	18.795	0.86	-15.02	4.96	60	5.03	43.09	42.78
1555	38.7	-4.12	0.38	-1.77	19.262	19.436	0.38	-15.75	4.51	60	5.28	43.02	42.78
1560	38.64	-4.13	-0.13	-2.28	18.4	20.237	-0.13	-17.33	4	45	5.52	42.96	42.75
1565	40.19	-3.96	-0.19	-2.34	18.387	21.801	-0.19	-17.03	3.76	45	6.01	43.01	42.81
1570	40.73	-3.9	-0.05	-2.2	18.136	22.597	-0.05	-15.71	3.85	60	6.4	42.98	42.75
1575	41.14	-3.86	-0.02	-2.17	18.136	23.001	-0.02	-14.48	3.83	60	6.6	42.88	42.63
1580	43.63	-3.6	0.14	-2.01	19.36	24.267	0.14	-13.3	3.74	60	6.49	42.88	42.63
1585	44.99	-3.47	0.32	-1.83	20.359	24.632	0.32	-13.37	3.78	60	6.26	43.03	42.77
1590	43.77	-3.59	0.21	-1.94	20.369	23.401	0.21	-14.62	3.79	60	5.97	42.98	42.69
1595	44.75	-3.49	0.27	-1.88	21.502	23.248	0.27	-15.68	3.76	60	5.74	42.87	42.61
1600	49.52	-3.05	0.85	-1.3	24.419	25.102	0.85	-15.48	3.91	15	5.87	43.36	43.16
1605	49.3	-3.07	0.8	-1.35	24.535	24.763	0.8	-15.27	3.88	30	6.57	43.67	43.49
1610	50.2	-2.99	0.94	-1.21	24.689	25.507	0.94	-14.78	3.94	30	8	43.65	43.44
1615	50.02	-3.01	1.14	-1.01	23.945	26.075	1.14	-14.84	4.14	75	9.87	43.41	43.15
1620	51.3	-2.9	1.43	-0.72	23.823	27.479	1.43	-13.68	4.33	75	12.12	43.68	43.39
1625	54.43	-2.64	1.87	-0.28	24.667	29.766	1.87	-13.63	4.52	75	13.54	43.96	43.62
1630	53.43	-2.72	1.93	-0.22	23.839	29.592	1.93	-13.91	4.65	45	13.94	43.7	43.32
1635	51.48	-2.88	1.89	-0.26	22.782	28.694	1.89	-13.42	4.78	45	13.43	43.6	43.22
1640	54.34	-2.65	2.17	0.02	23.982	30.356	2.17	-12.94	4.82	45	12.74	43.93	43.59
1645	54.79	-2.61	2.22	0.07	24.221	30.566	2.22	-13.41	4.84	45	12.27	43.91	43.58
1650	50.74	-2.95	1.84	-0.31	22.531	28.212	1.84	-15.25	4.79	75	11.68	43.61	43.28
1655	51.25	-2.9	1.83	-0.32	22.921	28.326	1.83	-16.73	4.74	75	11.01	43.72	43.36
1660	52.97	-2.76	1.9	-0.25	23.903	29.07	1.9	-17	4.66	90	10.67	43.83	43.45
1665	51.08	-2.92	1.7	-0.45	23.263	27.621	1.7	-16.63	4.62	30	11.9	43.71	43.3
1670	50.25	-2.99	1.57	-0.58	23.075	27.179	1.57	-17.2	4.55	30	13.37	43.75	43.33
1675	54.01	-2.68	1.81	-0.34	24.973	29.033	1.81	-16.6	4.48	30	15.06	44.07	43.64
1680	53.04	-2.75	1.58	-0.57	24.687	28.357	1.58	-16.38	4.33	30	16.93	43.95	43.55
1685	49.95	-3.01	1.24	-0.91	23.43	26.52	1.24	-17.57	4.26	15	18.04	43.83	43.44
1690	52.11	-2.83	1.35	-0.8	24.68	27.428	1.35	-17.93	4.19	15	18.61	44.14	43.77
1695	53.66	-2.7	1.38	-0.77	25.711	27.953	1.38	-17.11	4.08	15	18.01	44.19	43.81
1700	49.88	-3.02	1.16	-0.99	24.247	25.635	1.16	-16.38	4.18	15	17.03	43.83	43.45
1705	49.63	-3.04	1.31	-0.84	24.								



深圳市晟达通讯有限公司

Shenzhen ShengDa Communication Co., Ltd

1800	40.72	-3.9	0.4	-1.75	23.432	17.292	0.4	-14.33	4.3	30	8.98	43.59	43.18
1805	41.16	-3.85	0.53	-1.62	23.817	17.346	0.53	-14.28	4.39	30	8.84	43.52	43.15
1810	42.47	-3.72	0.73	-1.42	24.71	17.765	0.73	-13.93	4.45	30	8.56	43.6	43.25
1815	40.56	-3.92	0.57	-1.58	23.689	16.869	0.57	-13.86	4.49	30	8.42	43.59	43.24
1820	40.07	-3.97	0.54	-1.61	23.465	16.6	0.54	-14.09	4.51	30	8.13	43.47	43.11
1825	41.97	-3.77	0.72	-1.43	24.585	17.388	0.72	-13.77	4.49	45	7.77	43.41	43.07
1830	42.36	-3.73	0.68	-1.47	24.754	17.609	0.68	-14.13	4.41	75	7.32	43.51	43.18
1835	42.75	-3.69	0.64	-1.51	24.821	17.928	0.64	-14.44	4.34	75	6.68	43.56	43.24
1840	44.91	-3.48	0.76	-1.39	25.858	19.055	0.76	-14.35	4.24	0	6.29	43.51	43.19
1845	46.07	-3.37	0.76	-1.39	26.224	19.845	0.76	-15.39	4.12	0	5.8	43.59	43.3
1850	46.29	-3.35	0.61	-1.54	26	20.289	0.61	-16.41	3.96	0	5.49	43.75	43.47
1855	47.21	-3.26	0.52	-1.63	26.132	21.073	0.52	-16.77	3.78	0	5.27	43.76	43.49
1860	46.26	-3.35	0.4	-1.75	25.205	21.054	0.4	-16.41	3.75	15	5.02	43.66	43.43
1865	44.33	-3.53	0.22	-1.93	23.73	20.601	0.22	-15.56	3.76	15	4.61	43.65	43.49
1870	44.89	-3.48	0.23	-1.92	23.597	21.292	0.23	-14.18	3.7	15	4.32	43.72	43.55
1875	45.53	-3.42	0.46	-1.69	23.499	22.027	0.46	-15.02	3.87	15	4.07	43.76	43.55
1880	43.16	-3.65	0.37	-1.78	21.94	21.224	0.37	-16.42	4.02	15	4.12	43.67	43.44
1885	43.85	-3.58	0.61	-1.54	21.986	21.862	0.61	-17.4	4.19	15	4.16	43.69	43.46
1890	45.8	-3.39	0.97	-1.18	22.734	23.069	0.97	-17.91	4.36	15	4.21	43.81	43.56
1895	44.39	-3.53	1	-1.15	21.849	22.538	1	-18.43	4.52	15	4.23	43.81	43.56
1900	44.48	-3.52	1.18	-0.97	21.706	22.777	1.18	-17.76	4.7	15	4.21	43.74	43.51
1905	47.09	-3.27	1.62	-0.53	22.76	24.332	1.62	-16.38	4.89	15	4.21	43.88	43.68
1910	44.87	-3.48	1.6	-0.55	21.451	23.417	1.6	-15.15	5.08	15	4.22	44.07	43.86
1915	43	-3.67	1.53	-0.62	20.292	22.703	1.53	-13.84	5.2	15	4.49	44.01	43.75
1920	45.7	-3.4	1.89	-0.26	21.294	24.401	1.89	-12.54	5.29	15	4.55	43.93	43.66
1925	45.69	-3.4	1.93	-0.22	21.01	24.681	1.93	-12.75	5.33	15	4.56	44.03	43.78
1930	44.16	-3.55	1.79	-0.36	20.048	24.114	1.79	-12.8	5.34	15	4.41	44.13	43.9
1935	46.15	-3.36	2.01	-0.14	20.695	25.457	2.01	-13.79	5.37	15	4.26	44.13	43.91
1940	44.98	-3.47	1.88	-0.27	19.917	25.065	1.88	-15.26	5.35	0	4.35	44.08	43.89
1945	42.27	-3.74	1.58	-0.57	18.538	23.735	1.58	-16.9	5.32	0	4.52	44.09	43.94
1950	43.16	-3.65	1.68	-0.47	18.766	24.389	1.68	-17.89	5.33	0	4.61	44.15	43.99
1955	43.26	-3.64	1.69	-0.46	18.717	24.539	1.69	-18.3	5.33	0	4.75	44.21	43.97
1960	42.91	-3.67	1.67	-0.48	18.531	24.375	1.67	-18.22	5.35	0	4.9	44.22	43.92
1965	44.68	-3.5	1.84	-0.31	19.315	25.364	1.84	-17.58	5.34	0	5.01	44.19	43.92
1970	44.04	-3.56	1.79	-0.36	19.087	24.957	1.79	-18.1	5.35	15	5.23	44.26	44.03
1975	44.76	-3.49	1.79	-0.36	19.456	25.304	1.79	-18.4	5.28	15	5.47	44.38	44.13
1980	46.64	-3.31	1.93	-0.22	20.368	26.267	1.93	-18.17	5.24	15	5.73	44.14	43.94
1985	45.73	-3.4	1.75	-0.4	20.091	25.842	1.75	-17.75	5.15	15	5.97	44.1	44
1990	46.22	-3.35	1.73	-0.42	20.462	25.763	1.73	-17.11	5.09	30	6.52	44.41	44.37
1995	46.81	-3.3	1.69	-0.46	20.912	25.893	1.69	-16.49	4.99	30	7.06	44.41	44.31
2000	44.66	-3.5	1.43	-0.72	20.155	24.503	1.43	-16	4.93	30	7.63	44.22	44.1
2005	46.92	-3.29	1.58	-0.57	21.391	25.534	1.58	-14.97	4.87	45	8.04	44.42	44.38
2010	48.43	-3.15	1.7	-0.45	22.274	26.16	1.7	-13.98	4.85	45	8.4	44.66	44.63
2015	45.02	-3.47	1.4	-0.75	20.848	24.17	1.4	-14.33	4.87	45	8.62	44.55	44.45
2020	46.09	-3.36	1.53	-0.62	21.43	24.659	1.53	-14.37	4.9	45	8.8	44.4	44.24
2025	45.75	-3.4	1.55	-0.6	21.287	24.463	1.55	-14.48	4.94	30	8.95	44.34	44.23
2030	40.92	-3.88	1.18	-0.97	18.938	21.985	1.18	-15.01	5.06	30	9.2	44.28	44.17
2035	41.61	-3.81	1.41	-0.74	19.057	22.551	1.41	-15.34	5.22	30	9.31	44.28	44.13
2040	40.05	-3.97	1.44	-0.71	18.036	22.011	1.44	-16.05	5.42	45	9.41	44.14	43.98
2045	36.71	-4.35	1.2	-0.95	16.185	20.528	1.2	-16.78	5.55	45	9.14	44.06	43.93

2400	46.49	-3.33	0.52	-1.63	23.948	22.54	0.52	-14.88	3.85	30	14.1	45.93	45.59
2405	48.04	-3.18	0.68	-1.47	25.209	22.827	0.68	-14.36	3.86	30	13.55	45.82	45.52
2410	52.86	-2.77	1.13	-1.02	28.224	24.639	1.13	-13.92	3.89	30	13	45.77	45.58
2415	53.43	-2.72	1.15	-1	28.965	24.466	1.15	-14.12	3.87	30	12.67	45.85	45.71
2420	52.38	-2.81	1.05	-1.1	28.735	23.644	1.05	-14.44	3.86	30	12.18	45.88	45.74
2425	56.9	-2.45	1.32	-0.83	31.495	25.405	1.32	-14.44	3.77	60	11.98	45.92	45.76
2430	56.44	-2.48	1.26	-0.89	31.411	25.031	1.26	-14.59	3.74	60	11.58	45.87	45.71
2435	54.1	-2.67	1.23	-0.92	30.192	23.907	1.23	-14.87	3.9	60	11.2	45.79	45.63
2440	58.2	-2.35	1.68	-0.47	32.527	25.67	1.68	-14.13	4.03	0	10.83	45.89	45.74
2445	57.53	-2.4	1.76	-0.39	32.134	25.391	1.76	-14.17	4.16	0	10.54	45.87	45.76
2450	57.02	-2.44	1.8	-0.35	31.846	25.171	1.8	-13.79	4.24	0	10.16	45.88	45.79
2455	59.81	-2.23	2.14	-0.01	33.396	26.415	2.14	-13.07	4.37	0	9.95	45.97	45.9
2460	57.75	-2.38	2.1	-0.05	32.273	25.477	2.1	-13.28	4.48	0	9.87	46.12	46.03
2465	55.58	-2.55	2.02	-0.13	31.111	24.466	2.02	-13.55	4.57	0	10.08	46.05	45.92
2470	57.3	-2.42	2.23	0.08	32.11	25.189	2.23	-13.46	4.65	0	11.31	45.96	45.8
2475	54.59	-2.63	2.08	-0.07	30.609	23.977	2.08	-13.45	4.71	0	12.75	46.03	45.89
2480	51.39	-2.89	1.84	-0.31	28.856	22.535	1.84	-14.13	4.73	0	14.21	45.97	45.85
2485	54.8	-2.61	2.11	-0.04	30.763	24.033	2.11	-15.13	4.72	0	15.64	46.09	45.94
2490	52.93	-2.76	1.93	-0.22	29.688	23.241	1.93	-17.1	4.69	0	17.61	46.05	45.91
2495	50.84	-2.94	1.69	-0.46	28.472	22.372	1.69	-21.61	4.62	30	22.1	45.93	45.82
2500	53.28	-2.73	1.73	-0.42	29.743	23.534	1.73	-29.12	4.46	30	29.93	45.95	45.87
2505	51.97	-2.84	1.49	-0.66	28.872	23.101	1.49	-27.45	4.33	30	28.25	46.07	45.97
2510	48.18	-3.17	1.03	-1.12	26.568	21.615	1.03	-20.6	4.2	60	21.2	46.02	45.91
2515	47.23	-3.26	0.82	-1.33	25.777	21.453	0.82	-22.37	4.08	60	22.99	45.91	45.81
2520	45.09	-3.46	0.67	-1.48	24.283	20.809	0.67	-31.59	4.13	60	32.26	46.09	45.94
2525	40.89	-3.88	0.44	-1.71	21.676	19.213	0.44	-23.31	4.33	75	23.75	46.06	45.89
2530	41.41	-3.83	0.54	-1.61	21.65	19.756	0.54	-19.66	4.37	75	20.2	45.91	45.76
2535	40.26	-3.95	0.24	-1.91	20.883	19.382	0.24	-18.68	4.19	75	16.98	45.88	45.73
2540	39.54	-4.03	-0.21	-2.36	20.489	19.056	-0.21	-17.47	3.82	75	13.97	45.95	45.82
2545	42.95	-3.67	0.04	-2.11	22.357	20.592	0.04	-16.64	3.71	105	12.02	45.97	45.82
2550	43.92	-3.57	0.25	-1.9	23.007	20.916	0.25	-15.78	3.82	120	11.91	45.84	45.67
2555	45.26	-3.44	0.41	-1.74	23.832	21.428	0.41	-14.87	3.85	135	11.06	45.84	45.65
2560	47.52	-3.23	0.56	-1.59	25.102	22.422	0.56	-14.42	3.79	150	9.94	45.93	45.73
2565	47.55	-3.23	0.4	-1.75	25.15	22.397	0.4	-14.52	3.63	150	8.83	45.95	45.75
2570	49.68	-3.04	0.53	-1.62	26.3	23.379	0.53	-15.27	3.57	165	8.46	45.97	45.78
2575	51.34	-2.9	0.89	-1.26	27.115	24.222	0.89	-15.91	3.79	165	8.32	45.94	45.77
2580	50.52	-2.97	1	-1.15	26.593	23.925	1	-16.06	3.96	0	8.24	45.86	45.71
2585	50.92	-2.93	1.29	-0.86	26.643	24.273	1.29	-15.23	4.22	0	8.39	45.8	45.67
2590	51.9	-2.85	1.7	-0.45	26.922	24.975	1.7	-14.15	4.55	0	8.29	45.81	45.7
2595	52.48	-2.8	2.07	-0.08	26.963	25.519	2.07	-13.31	4.87	0	8.39	45.88	45.79
2600	52.82	-2.77	2.36	0.21	26.803	26.015	2.36	-14.8	5.14	0	8.45	46.05	45.95



2650	40.54	-3.92	2.4	0.25	18.063	22.473	2.4	-17.3	6.32	0	12.57	45.8	45.61
2655	39.21	-4.07	2.43	0.28	17.327	21.879	2.43	-17.27	6.5	0	14.02	45.78	45.63
2660	36.87	-4.33	2.3	0.15	16.18	20.687	2.3	-17.77	6.64	0	14.72	46.11	45.92
2665	37.38	-4.27	2.4	0.25	16.379	21.005	2.4	-19.38	6.67	0	14.13	46.21	46.04
2670	36.75	-4.35	2.29	0.14	16.139	20.612	2.29	-20.57	6.64	0	12.8	45.96	45.88
2675	35.31	-4.52	1.98	-0.17	15.589	19.722	1.98	-19.86	6.5	0	13.79	45.92	45.89
2680	36.1	-4.43	1.81	-0.34	16.104	19.992	1.81	-18.43	6.24	0	15.1	46.23	46.18
2685	34.37	-4.64	1.27	-0.88	15.504	18.868	1.27	-19.28	5.91	60	15.84	46.33	46.21
2690	31.62	-5	0.92	-1.23	14.446	17.175	0.92	-18.12	5.92	60	16.47	46.08	45.95
2695	31.31	-5.04	0.69	-1.46	14.432	16.873	0.69	-17.76	5.74	60	15.48	45.92	45.81
2700	31.49	-5.02	0.31	-1.84	14.539	16.948	0.31	-17.87	5.33	60	13.74	46.03	45.88

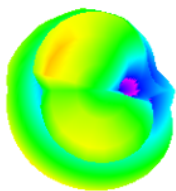
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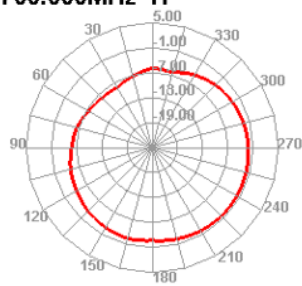
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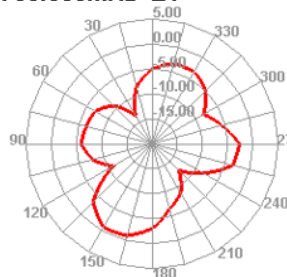
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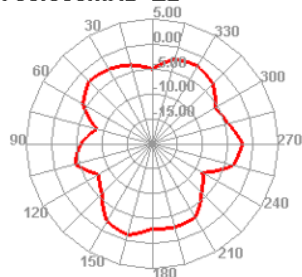
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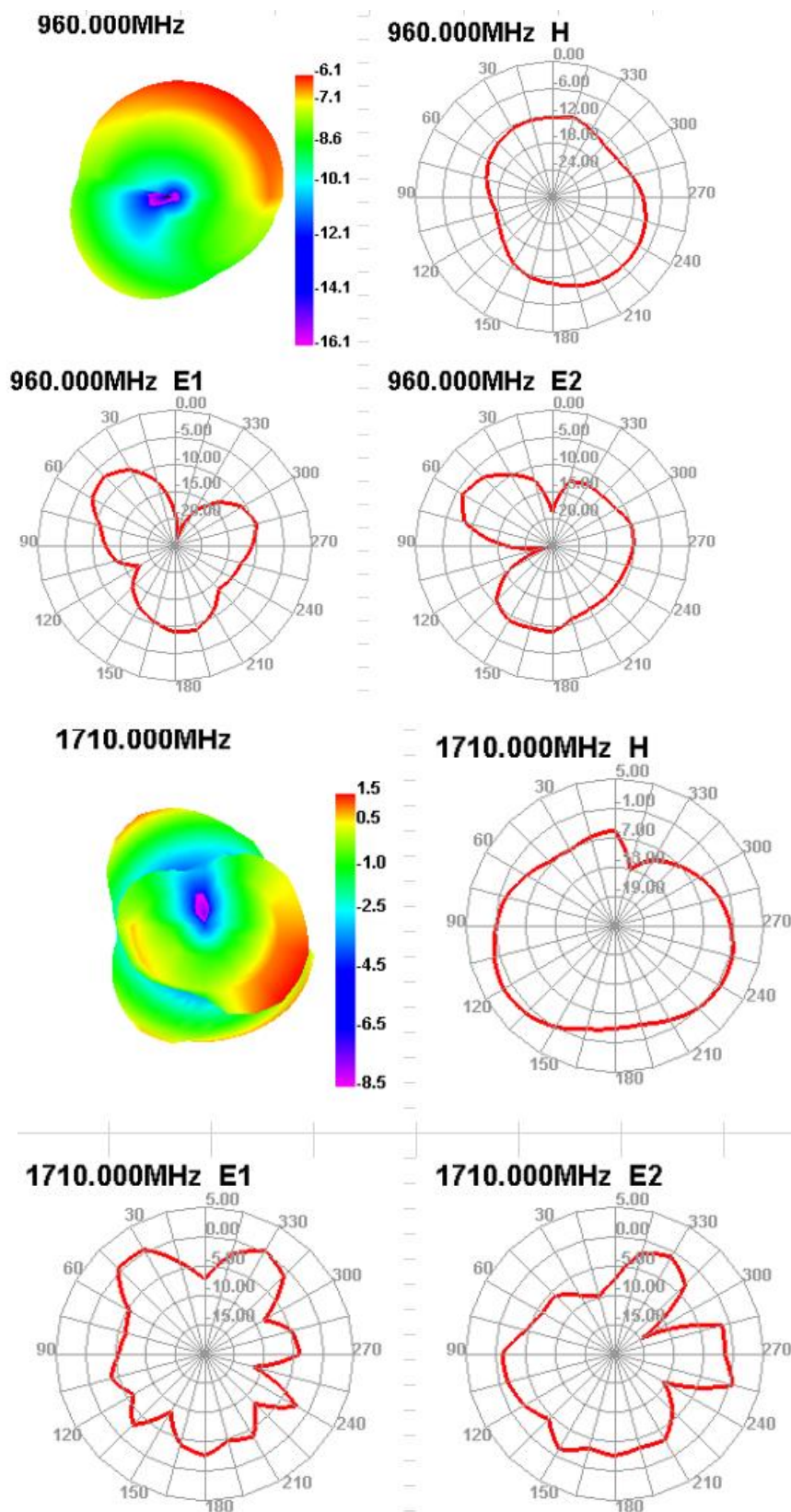
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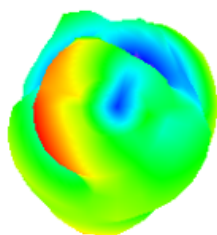
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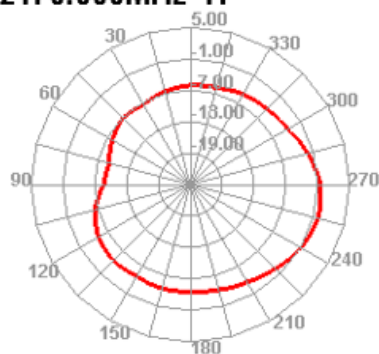
Address: Room 501, Building 4, No. 5 Chuangye 4th Road, Zhangbei Community, Longcheng Street, Longgang District, Shenzhen, China
Phone: +86-755-89916753



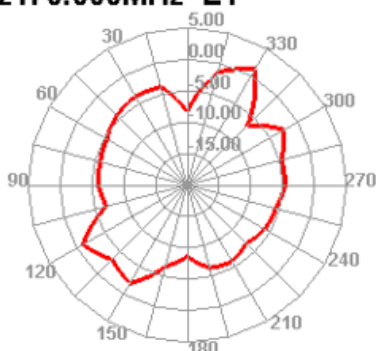
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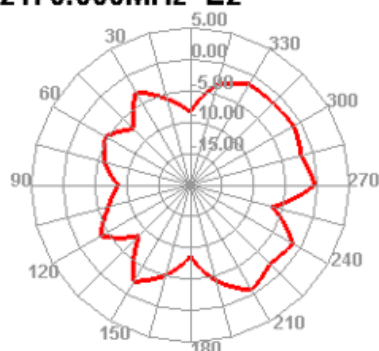
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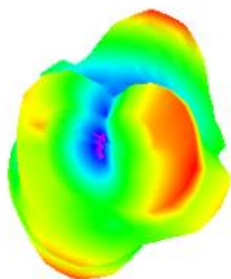
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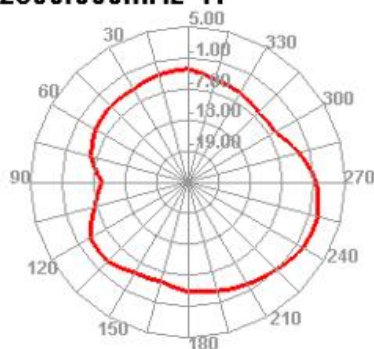
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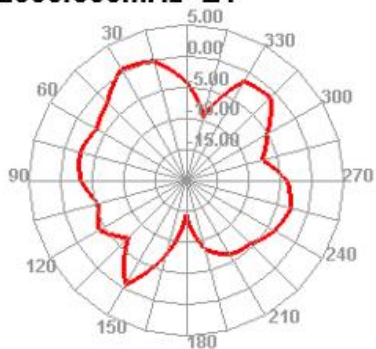
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2300.000MHz H



2300.000MHz E1



2300.000MHz E2

