

承 认 书

SPECIFICATION FOR APPROVAL

Customer:	卓派电子
Customer's PN:	
Product name:	WIFI Antenna
Baiao PN:	BIO-F117-01
Date:	2022-08-19
Specifications:	2.4GHz/5.8GHz 黑色软板天线,1.13 黑色线 *130mm,IPEX 母头镀金

Customer check

Engineering Department	Quality department	Approved

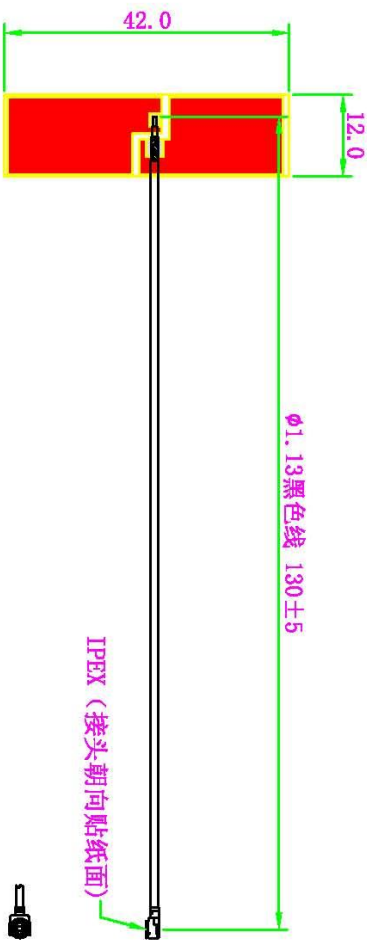
百傲电子科技有限公司

Baiao Electronics Technology Co.,Ltd

Engineering Department	Quality department	Approved
肖静静		

SPECIFICATION

1. Description	WIFI Antenna
2. Mechanical Characteristics	
Connector	IPEX
Cable	1.13
Color	Black
Appearance	See attached drawing
3. Electrical Characteristics	
Operating Frequency	2.4GHz/5.8GHz
Gain	5.17dBi
Impedance	50 Ohm
V.S.W.R	2.0:1 Max
Polarization	Linear
4. Operating Temperature	-20℃ ~ +65℃
5. Storage Temperature	-40℃ ~ +85℃



A0	-----	2022-08-19
版本/Rev.	设计变更/Design alteration	日期/Date

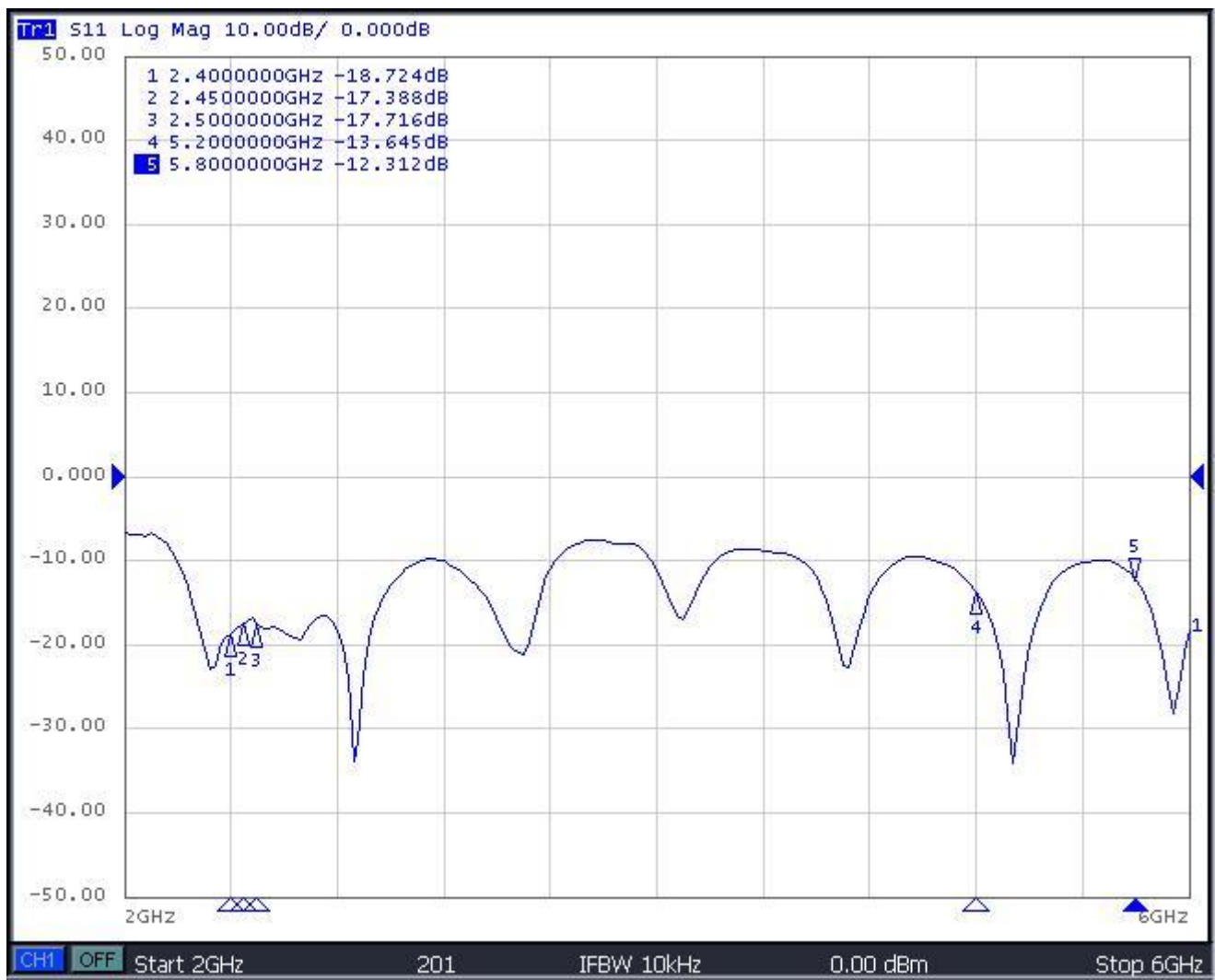
品名/Name		WIFI Antenna		比例/Scale		1:1		一般公差/Tolerance		
机种/Product number		BIO-F117-01		单位/Unit		mm		Range	Metal	Plastic
第三角法投影 Third angle projection		检验项目/Check Item		页码/Pages		1/1		0~20	±0.05	±0.2
设计/Design		审核/Check		核准/Approval				21~30	±0.1	±1
常有泰								31~100	±1	±1
								101~	±2	±2



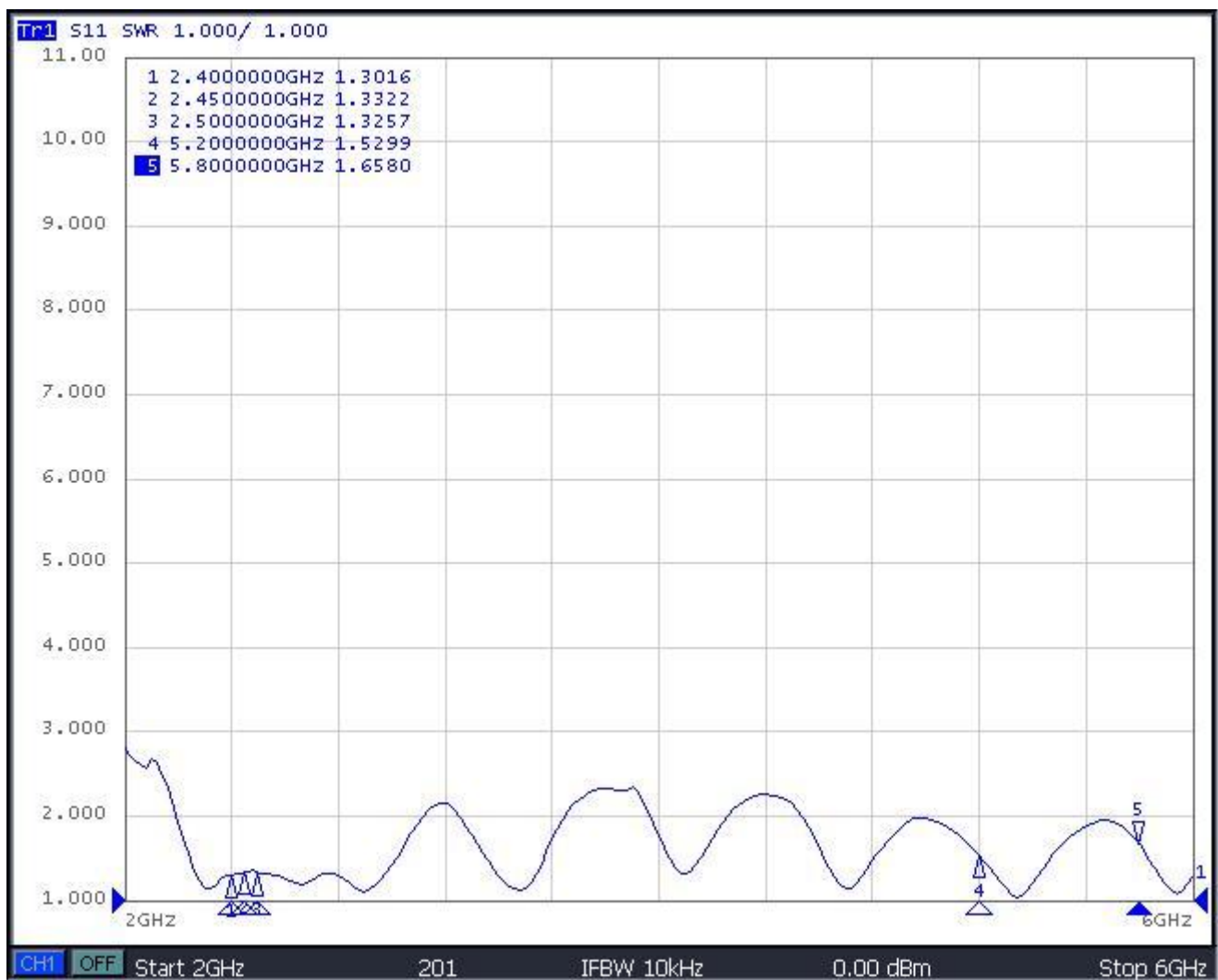
电气特性 ELECTRONICAL CHARACTERISTICS

项目 ITEM		测试环境 TEST CONDITION	规格 SPECIFICATION
1	返回损耗 RETURN LOSS	使用网络分析仪测量天线 S11 之返回损耗参数 Using Network Advantest to Measure Antenna S11 Return loss Characteristics	附图 1 Graph 1
2	电压驻波比 VSWR	使用网络分析仪测量天线 S11 之电压驻波比参数 Using Network Advantest to Measure Antenna S11 VSWR Characteristics	附图 2 Graph 2
3	阻抗 Smith Chart	使用网络分析仪测量天线 S11 之史密斯阻抗参数 Using Network Advantest to Measure Antenna S11 Smith Chart Characteristics	附图 3 Graph 3

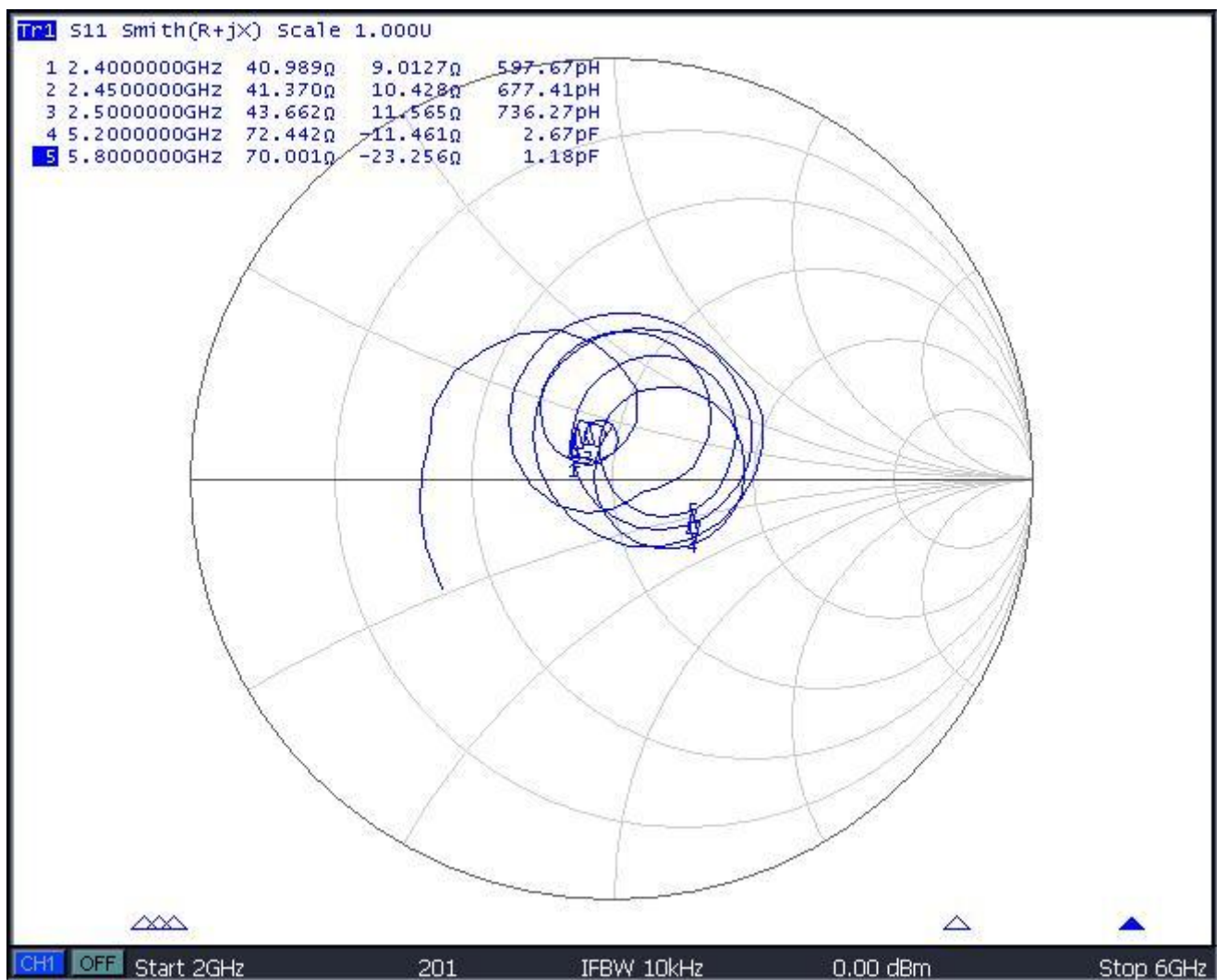
附图一: RETURN LOSS



附图二：V.S.W.R



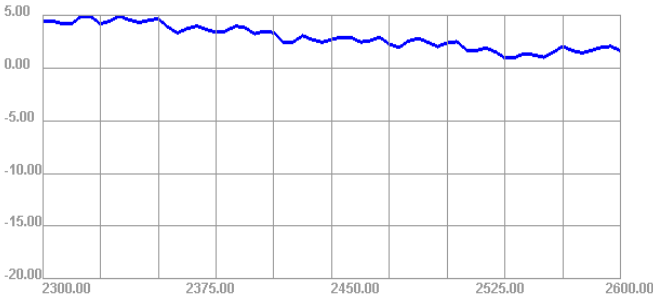
附图三: Smith Chart



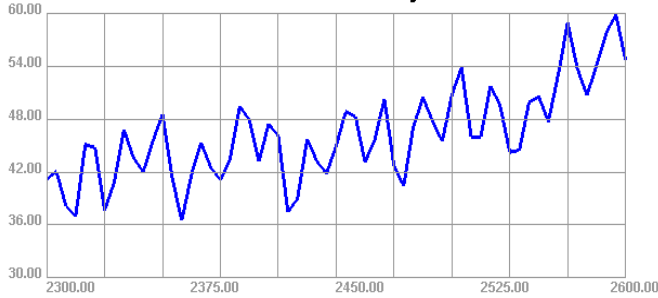
Passive Test For 23										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)
2400	49.46	-3.06	3.96	1.81	24.579	24.877	3.96	-13.15	7.02	0
2410	43.2	-3.65	3.22	1.07	21.471	21.728	3.22	-13.58	6.87	0
2415	47.45	-3.24	3.49	1.34	23.673	23.781	3.49	-13.05	6.72	0
2420	46.14	-3.36	3.32	1.17	23.161	22.979	3.32	-13.34	6.68	0
2425	37.46	-4.26	2.41	0.26	18.922	18.538	2.41	-14.27	6.67	0
2430	38.98	-4.09	2.45	0.3	19.863	19.12	2.45	-13.99	6.55	0
2435	45.76	-3.4	3.05	0.9	23.548	22.208	3.05	-13.61	6.45	0
2440	43.23	-3.64	2.68	0.53	22.464	20.769	2.68	-14.11	6.32	0
2445	41.85	-3.78	2.43	0.28	21.916	19.931	2.43	-14.57	6.21	0
2450	44.96	-3.47	2.67	0.52	23.718	21.238	2.67	-14.51	6.14	0
2455	48.86	-3.11	2.92	0.77	25.931	22.929	2.92	-14.38	6.03	0
2460	48.3	-3.16	2.87	0.72	25.72	22.583	2.87	-14.66	6.03	0
2465	43.12	-3.65	2.45	0.3	22.999	20.122	2.45	-15.48	6.1	0
2470	45.66	-3.4	2.57	0.42	24.349	21.316	2.57	-15.41	5.97	0
2475	50.27	-2.99	2.91	0.76	26.785	23.486	2.91	-15.31	5.9	0
2480	42.71	-3.69	2.24	0.09	22.708	20.007	2.24	-16.34	5.94	0
2485	40.43	-3.93	1.94	-0.21	21.44	18.988	1.94	-16.73	5.87	0
2490	47.12	-3.27	2.56	0.41	24.984	22.138	2.56	-16.32	5.83	0
2495	50.45	-2.97	2.8	0.65	26.738	23.716	2.8	-16.54	5.77	0
2500	47.75	-3.21	2.41	0.26	25.343	22.406	2.41	-16.86	5.62	0
2505	45.47	-3.42	2.02	-0.13	24.23	21.238	2.02	-17.12	5.44	0
2510	50.75	-2.95	2.38	0.23	27.194	23.553	2.38	-16.94	5.33	0
2515	53.85	-2.69	2.49	0.34	29.081	24.765	2.49	-16.5	5.18	0
2520	45.99	-3.37	1.7	-0.45	25.077	20.917	1.7	-17.39	5.07	0
2525	45.99	-3.37	1.62	-0.53	25.335	20.652	1.62	-17.56	4.99	0
2530	51.8	-2.86	1.92	-0.23	28.88	22.921	1.92	-17.19	4.78	0
2535	49.52	-3.05	1.52	-0.63	27.961	21.561	1.52	-17.6	4.57	0
2540	44.25	-3.54	0.94	-1.21	25.253	18.998	0.94	-18.42	4.48	0
2545	44.48	-3.52	0.99	-1.16	25.614	18.869	0.99	-18.64	4.51	0
2550	49.92	-3.02	1.34	-0.81	28.97	20.947	1.34	-18.61	4.36	15
2555	50.56	-2.96	1.23	-0.92	29.559	21.004	1.23	-18.34	4.2	15
2560	47.72	-3.21	1.02	-1.13	28.066	19.655	1.02	-18.67	4.23	15
2565	52.93	-2.76	1.5	-0.65	31.205	21.724	1.5	-17.25	4.26	15
2570	58.91	-2.3	2.03	-0.12	34.814	24.095	2.03	-16.32	4.33	15
2575	53.75	-2.7	1.65	-0.5	31.813	21.935	1.65	-16.51	4.34	15
2580	50.68	-2.95	1.41	-0.74	29.977	20.705	1.41	-16.84	4.36	15
2585	54.11	-2.67	1.66	-0.49	31.944	22.164	1.66	-16.25	4.33	15
2590	57.77	-2.38	1.94	-0.21	34.14	23.634	1.94	-15.87	4.33	15
2595	59.84	-2.23	2.05	-0.1	35.46	24.377	2.05	-15.73	4.28	30
2600	54.66	-2.62	1.61	-0.54	32.465	22.199	1.61	-16.59	4.23	45

Application Information	
04Version	4.95.303
TotalTime	17m 52s 191ms

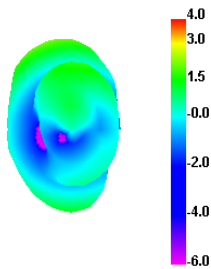
2300.00MHz - 2600.00MHz Gain dBi



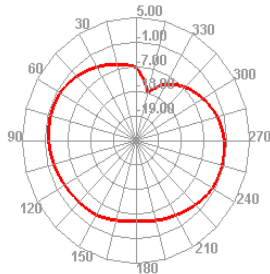
2300.00MHz - 2600.00MHz Efficiency



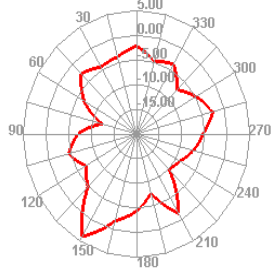
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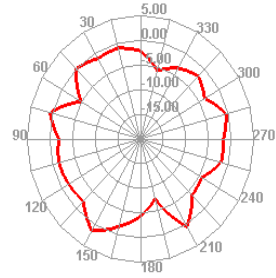
2400.000MHz H dBi



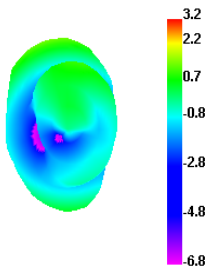
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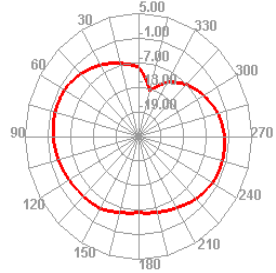
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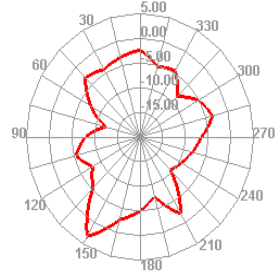
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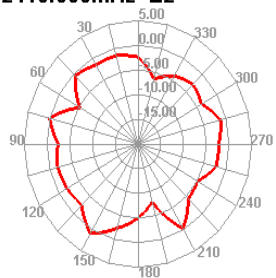
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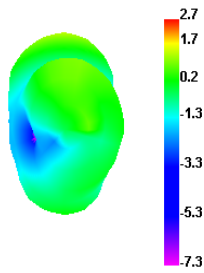
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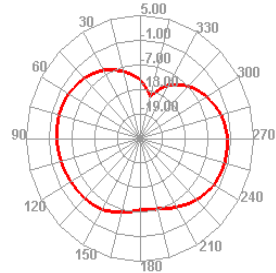
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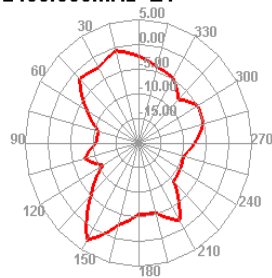
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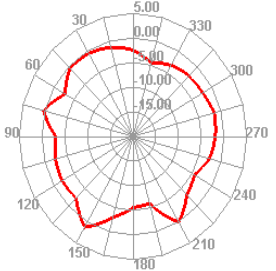
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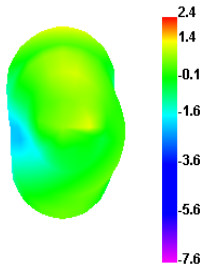
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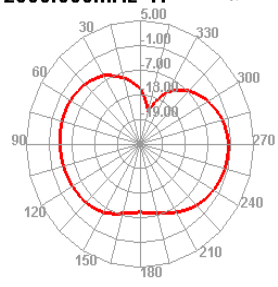
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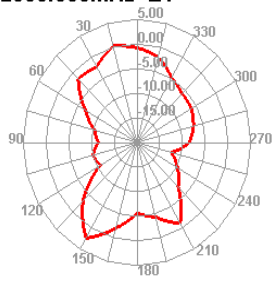
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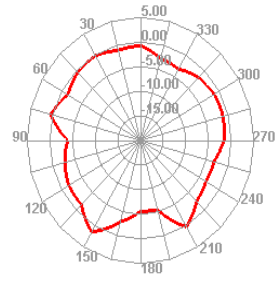
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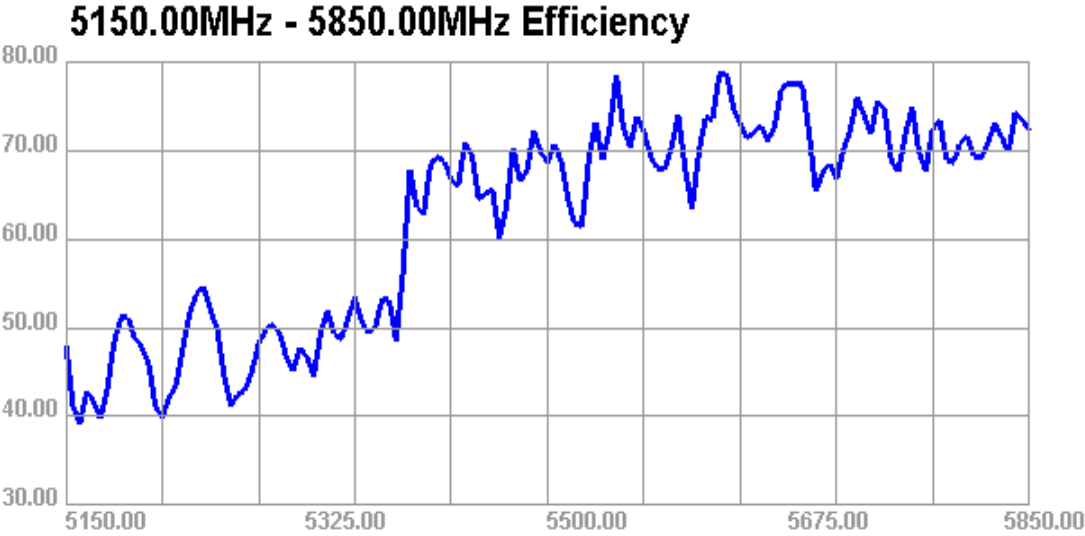
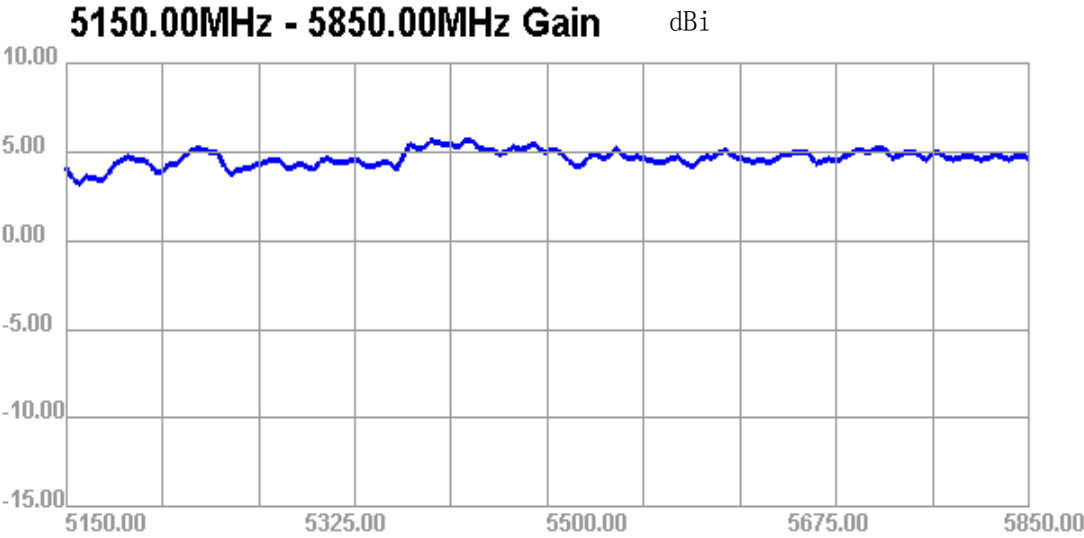
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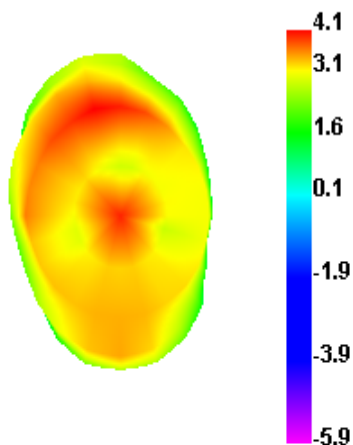
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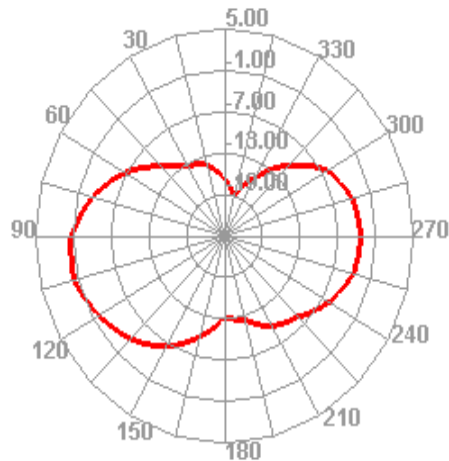
Passive Test For 55		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	48.06	4.1
5250	54.63	5.13
5350	48.71	4.38
5450	64.47	5.17
5550	78.5	5.16
5650	72.03	4.41
5725	75.95	5.11
5825	73.03	4.85



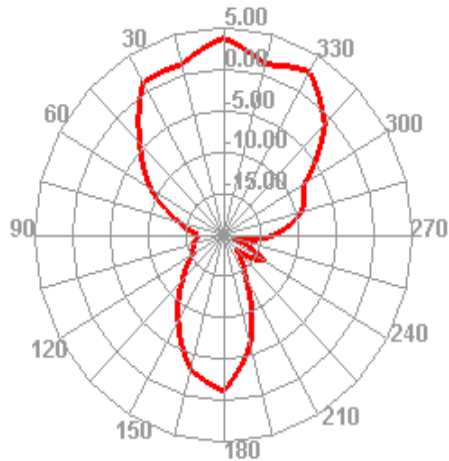
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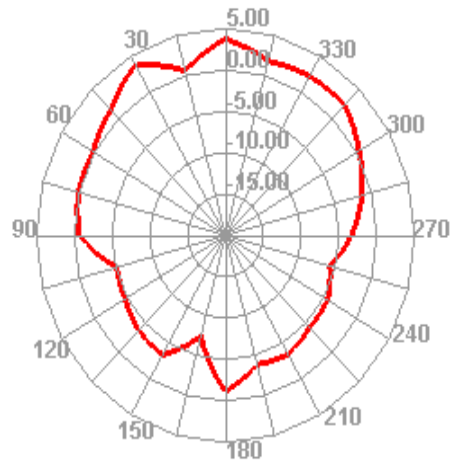
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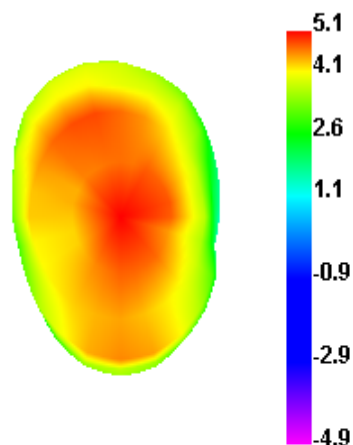
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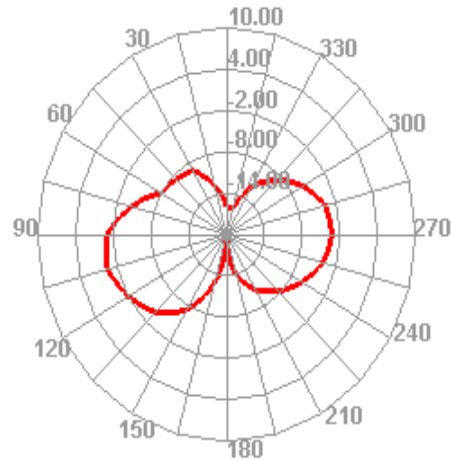
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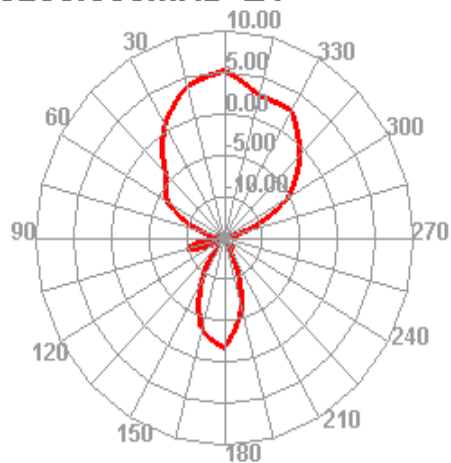
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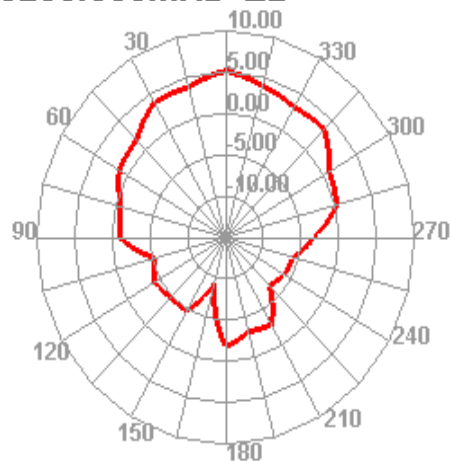
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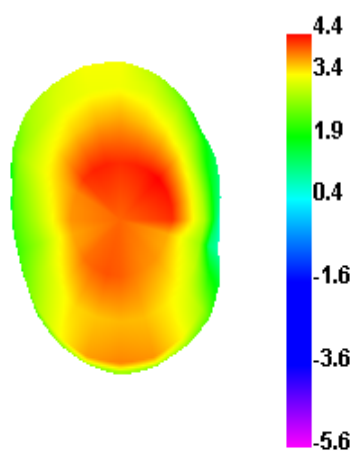
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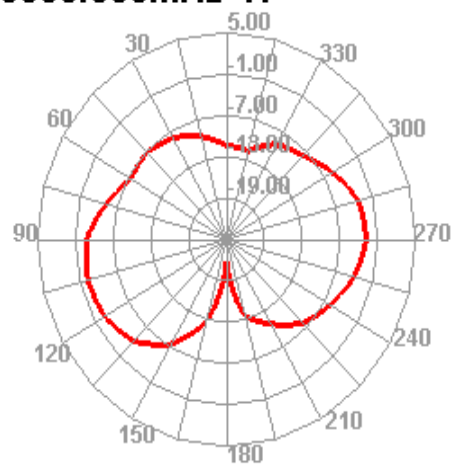
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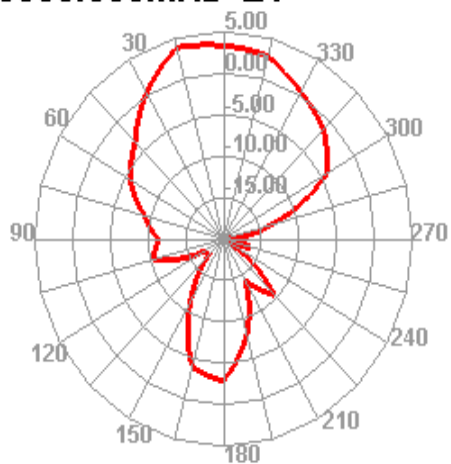
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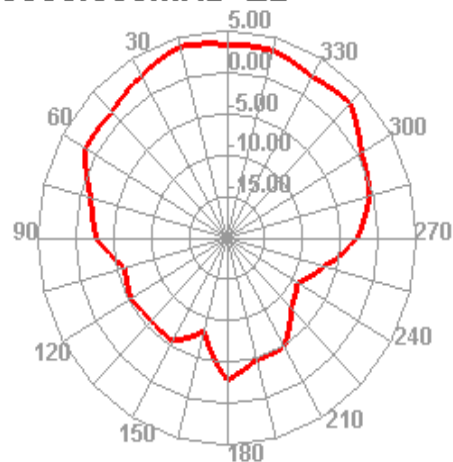
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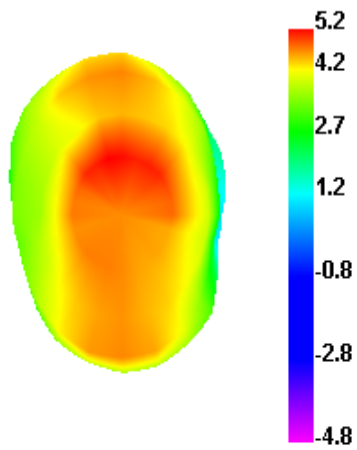
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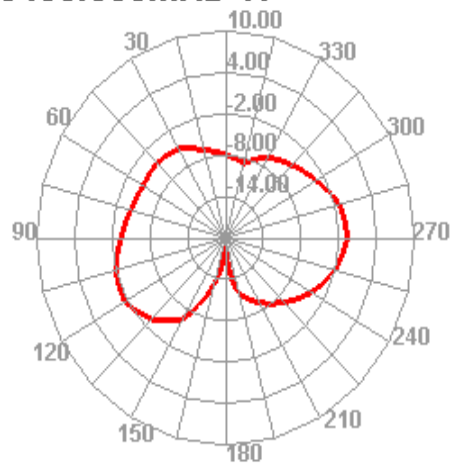
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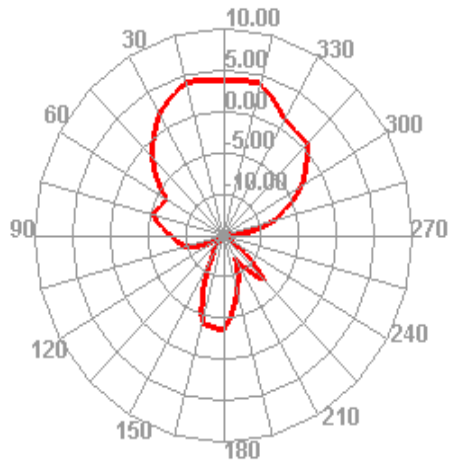
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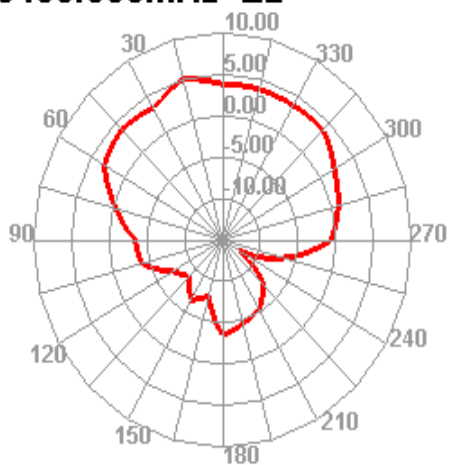
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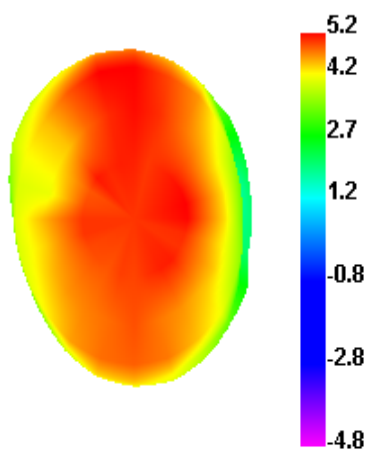
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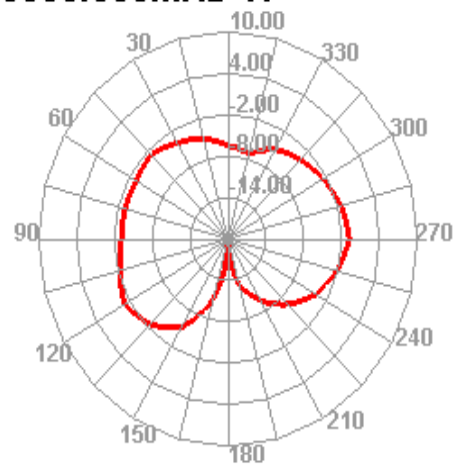
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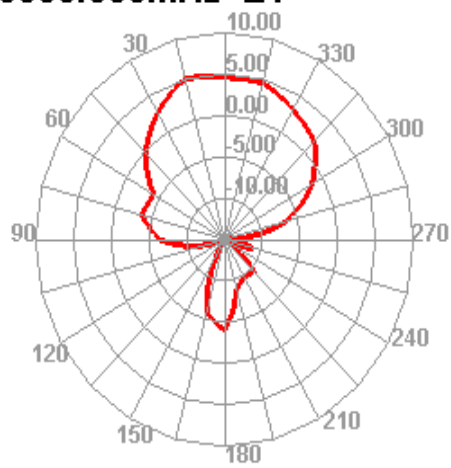
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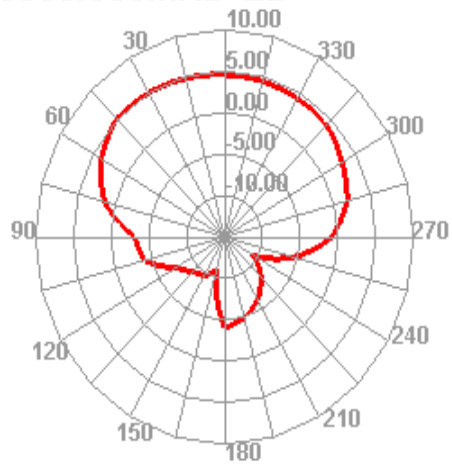
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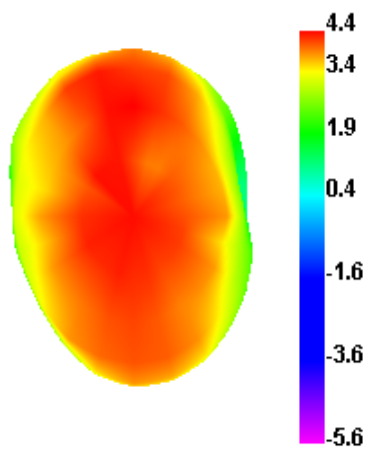
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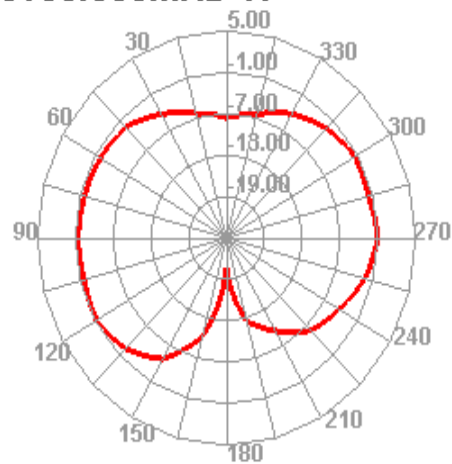
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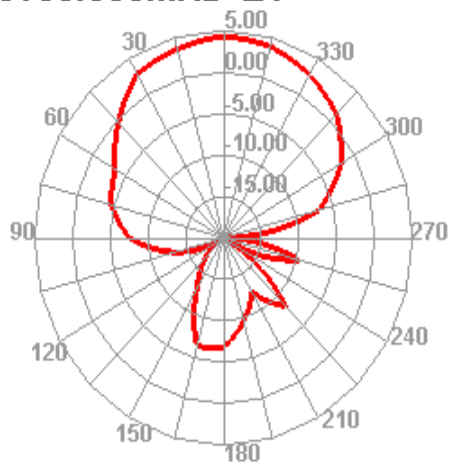
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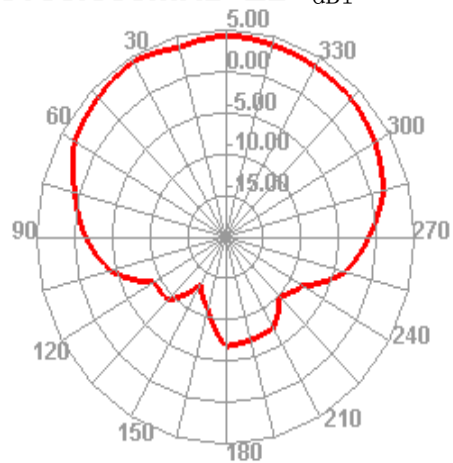
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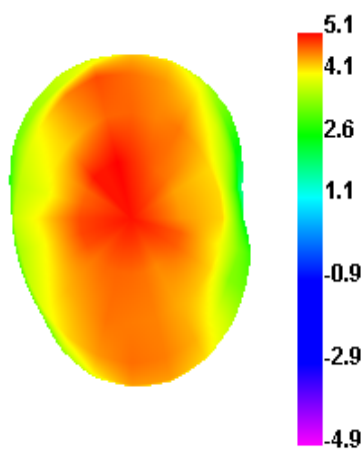
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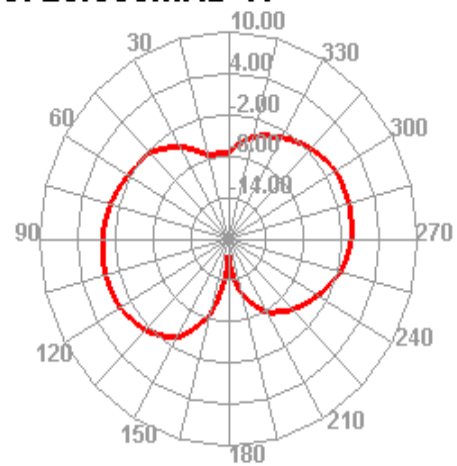
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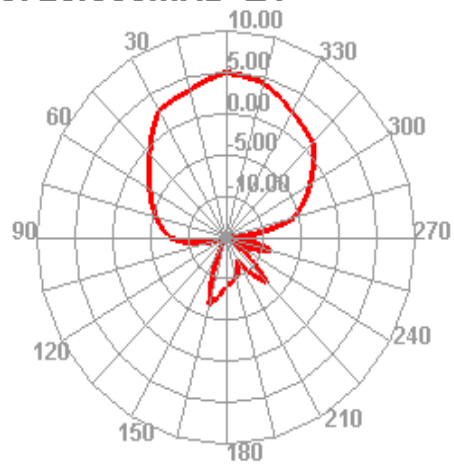
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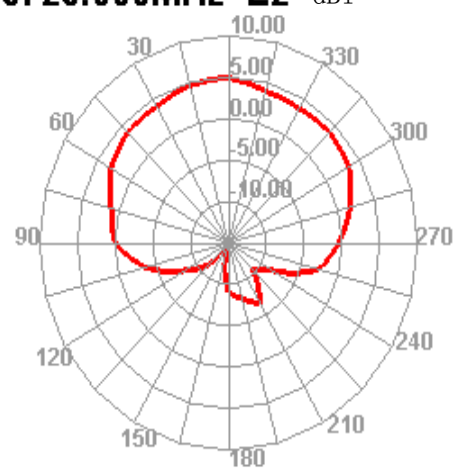
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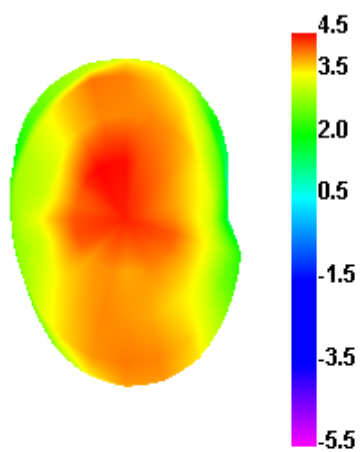
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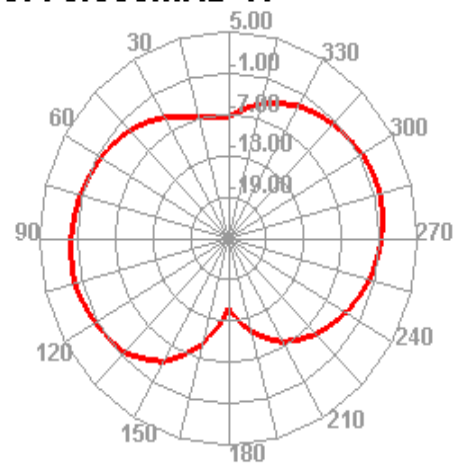
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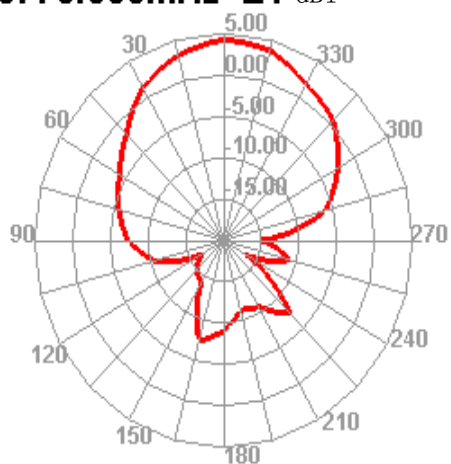
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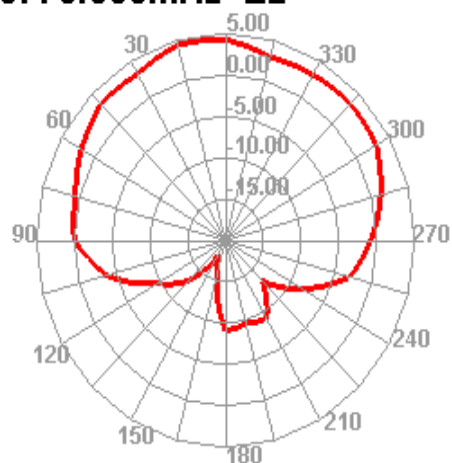
5775.000MHz H dBi



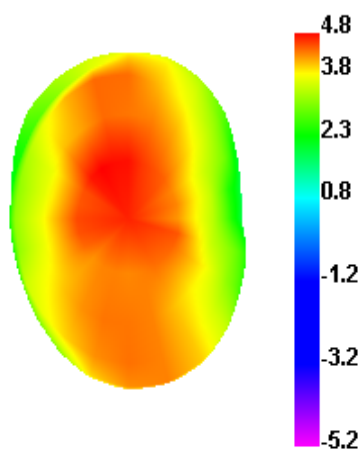
5775.000MHz E1 dBi



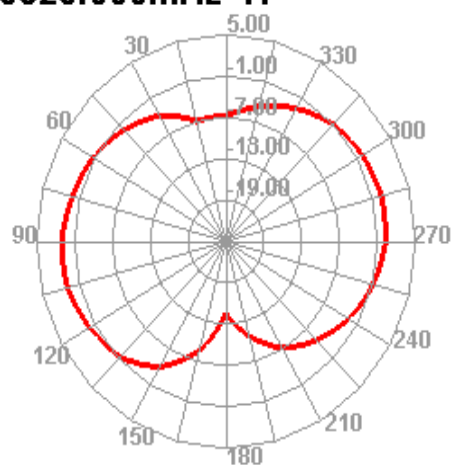
5775.000MHz E2 dBi



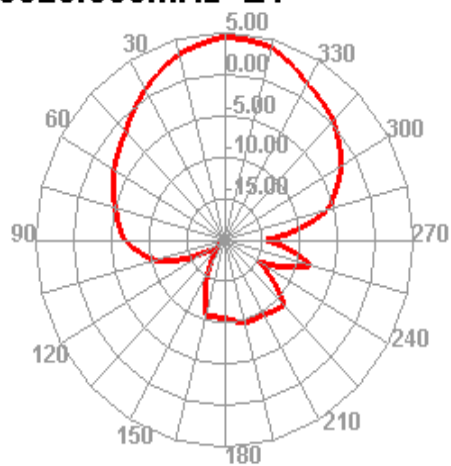
5825.000MHz



5825.000MHz H dBi



5825.000MHz E1 dBi



5825.000MHz E2 dBi

