

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

规格 承认书

客户名称	和天创
项目名称/料号	L018-WIFI
供方料号	XBY240035

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研发中心: 深圳市龙华区油松路 95 号油松文创园文成楼一楼 101

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目录

一. 测试系统及设备 Test System and Equipment	4 -
二. 产品细节描述 Product Description	5 -
三. 设备描述 Device Description	6 -
四. 匹配电路 Matching Circuits	7 -
五. 有源测试数据 Active Test Tata	7 -
六. 工程图 EngineeringDrawing	22 -

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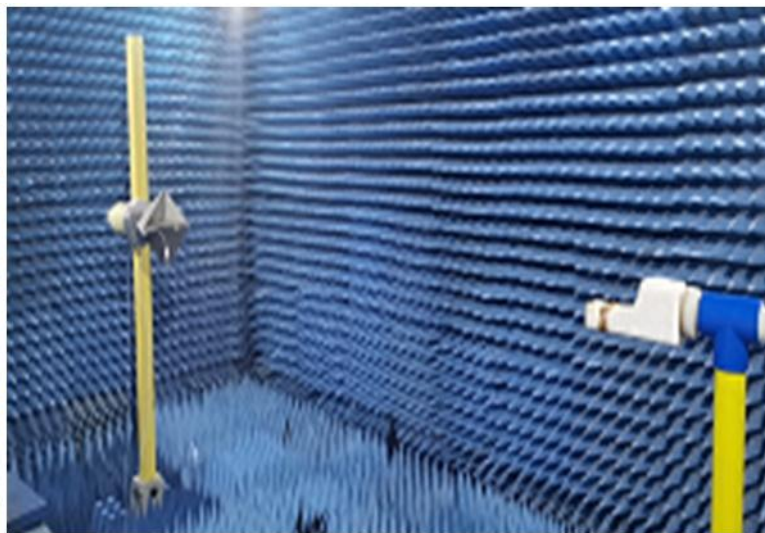
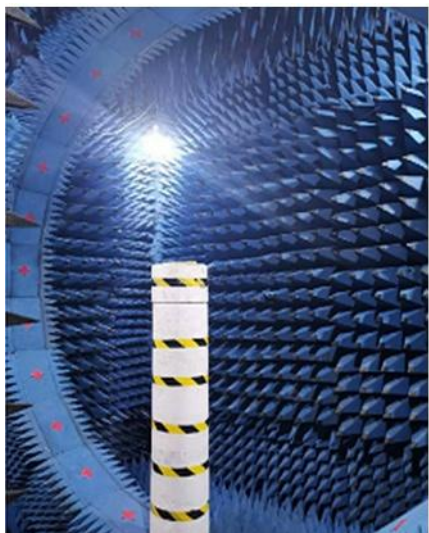
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一．测试系统及设备 Test System and Equipment

	测试项目	设备
1：S 参数	1. 回波损耗 2. 驻波比	网络分析仪：A338/A333 HP8753D
2：有源测试	1. TRP 2. TIS	综合测试仪：Agilent 8960/ CMW500
3：无源测试	1. 增益，效率 辐射方向	1. 暗室：5x3x3 m (ETS-3D) 2. 网络分析仪：HP 8753D



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二. 产品细节描述 Product Description

技术要求 Technical requirements	技术指标 Technical index	备注
工作频段 Band	WIFI: B/G/N/A 模	
频率范围 Range Of Frequency	WIFI: 2400-2500Mhz 5000-5800Mhz	
驻波比 VSWR	2400-2500Mhz<3.0 5000-5800Mhz<3.0	中心频率 Center Frequency
输出阻抗 Impedance	50 Ω	
极化方式 Polarization	线极化 Linear polarization	
工作温度 operating temperature	-20℃ / +55℃	
存储温度 storage temperature	-25℃ / +65℃	
盐雾 Salt Fog	24 小时 (24 小时干湿交替) 24h (24h alternating wet & dry)	
无铅认证 RoHS Compliant	是 yes	

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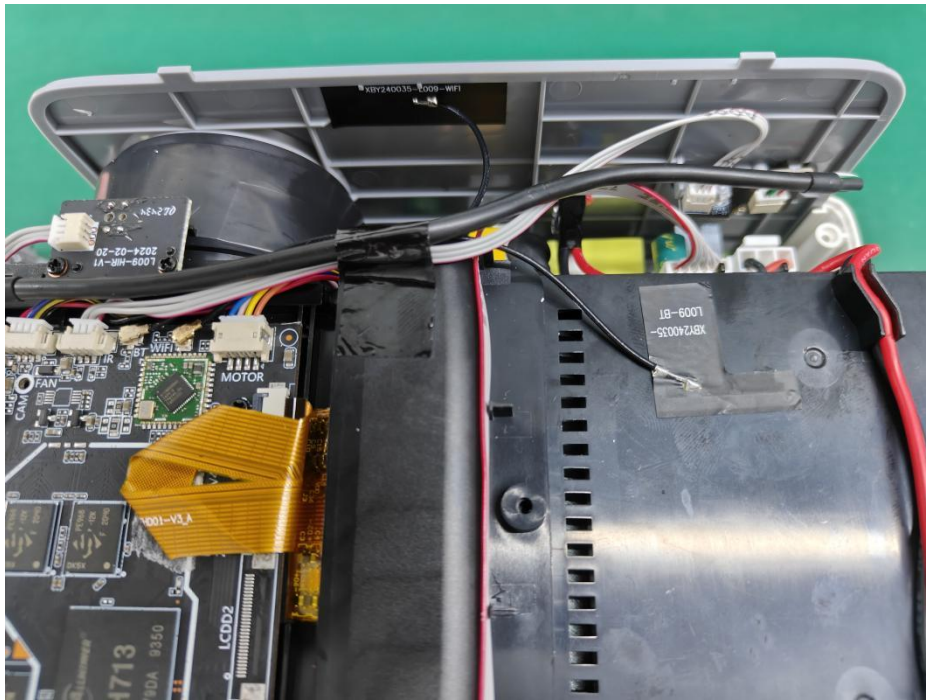
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三. 设备描述 Device Description

天线照片及安装位置



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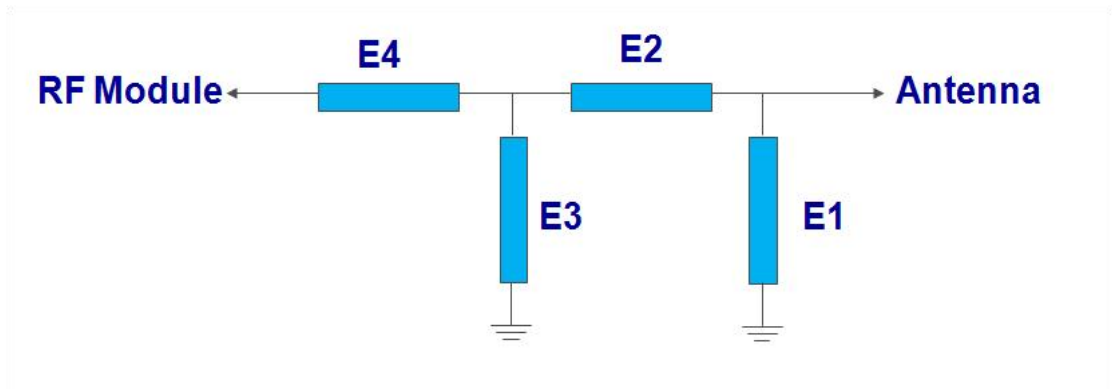
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四. 匹配电路 Matching Circuits



匹配电路

Element	Value	Vender
E1(0201)	NA	
E2(0201)	0Ω	
E3(0201)	NA	
E4(0201)	0Ω	

天线匹配没有做改动。

五. 有源测试数据 Active Test Data

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OTA 数据

WIFI BAND	802.11a : 54MBps (5G)					
Channel	CH36	CH149	CH161			
TRP	11.41	12.13	12.37			
TIS			-70.15			

WIFI BAND	802.11b : 11MBps (2.4G)			802.11g : 54MBps (2.4G)		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	14.35	14.56	14.83	10.79	10.85	11.12
TIS			-79.46			-67.61

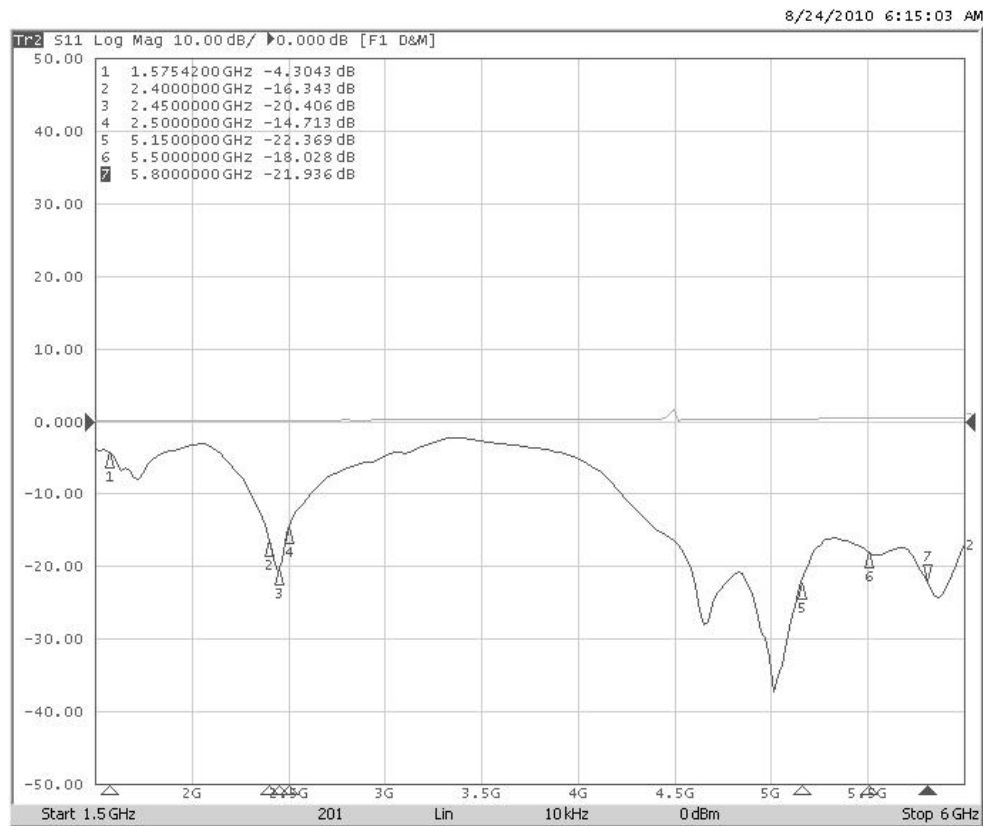
WIFI BAND	802.11n : MCS7 (2.4G)					
Channel	CH1	CH6	CH11			
TRP	10.54	10.98	10.64			
TIS			-69.40			

效率和增益

WiFi 2.4G			WiFi 5.8G		
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.05	2.87	5000	50.46	1.38
2410	49.78	2.87	5100	53.56	1.49
2420	52.69	2.98	5200	54.17	2.71
2430	53.06	2.77	5300	49.61	2.62
2440	52.56	2.49	5400	50.18	3.56
2450	52.56	2.3	5500	52.57	3.76
2460	50.99	1.97	5600	51.25	3.89
2470	51.04	1.69	5700	55.26	3.26
2480	52.95	1.95	5800	52.12	3.47
2490	52.51	2.07	5900	47.43	2.04
2500	51.95	2.28	6000	47.36	2.69

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驻波图



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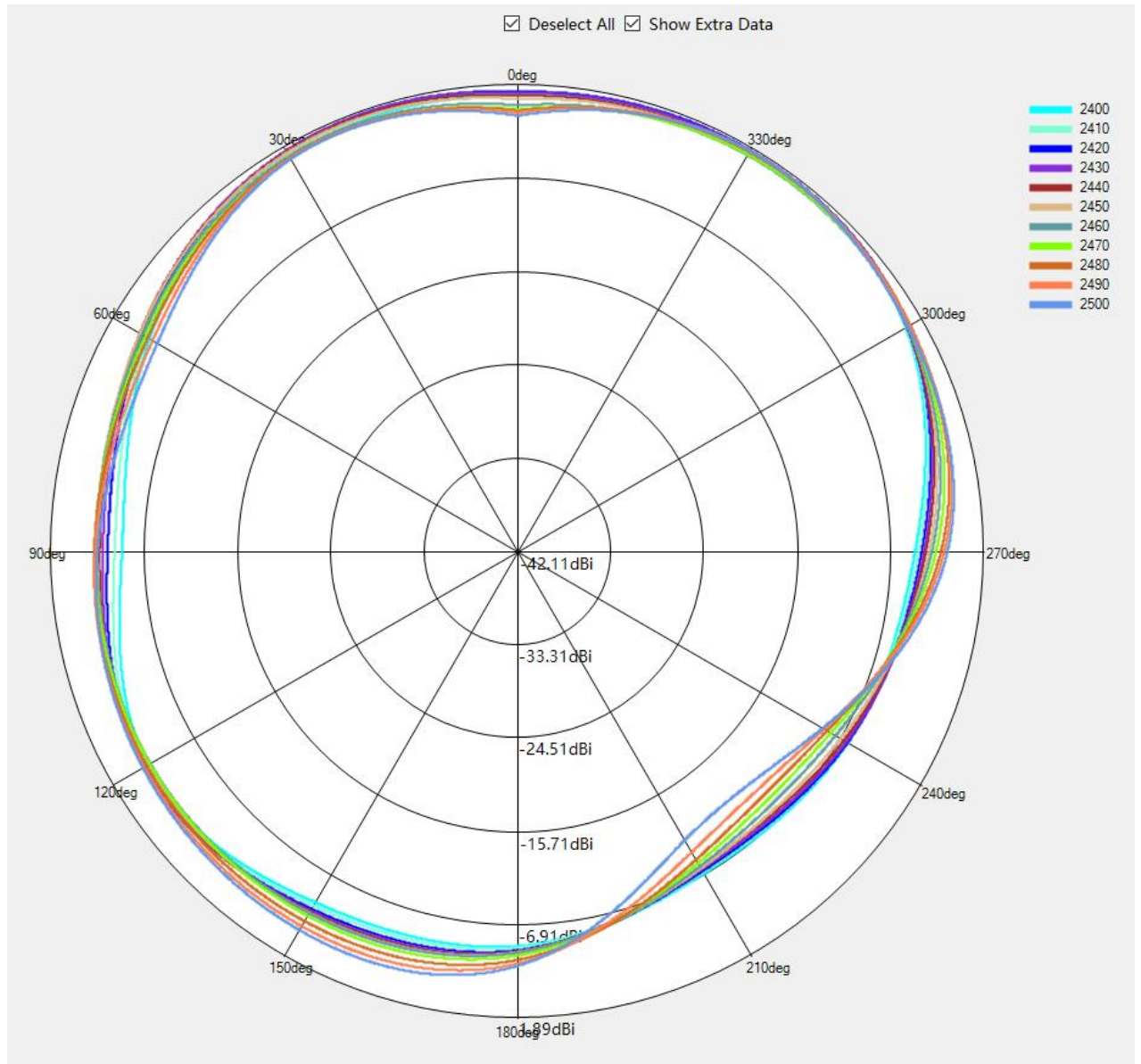
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WiFi 2.4G



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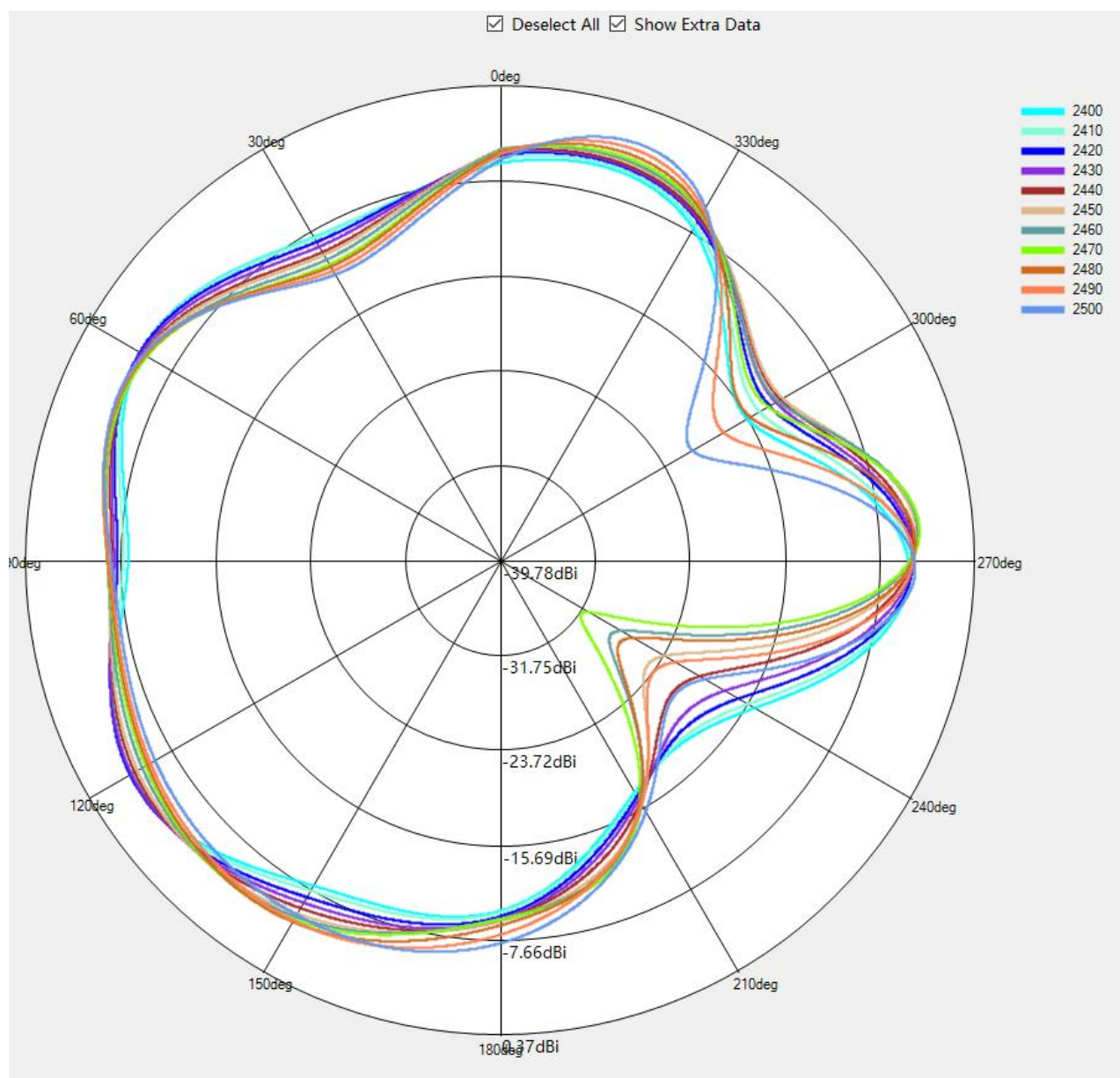
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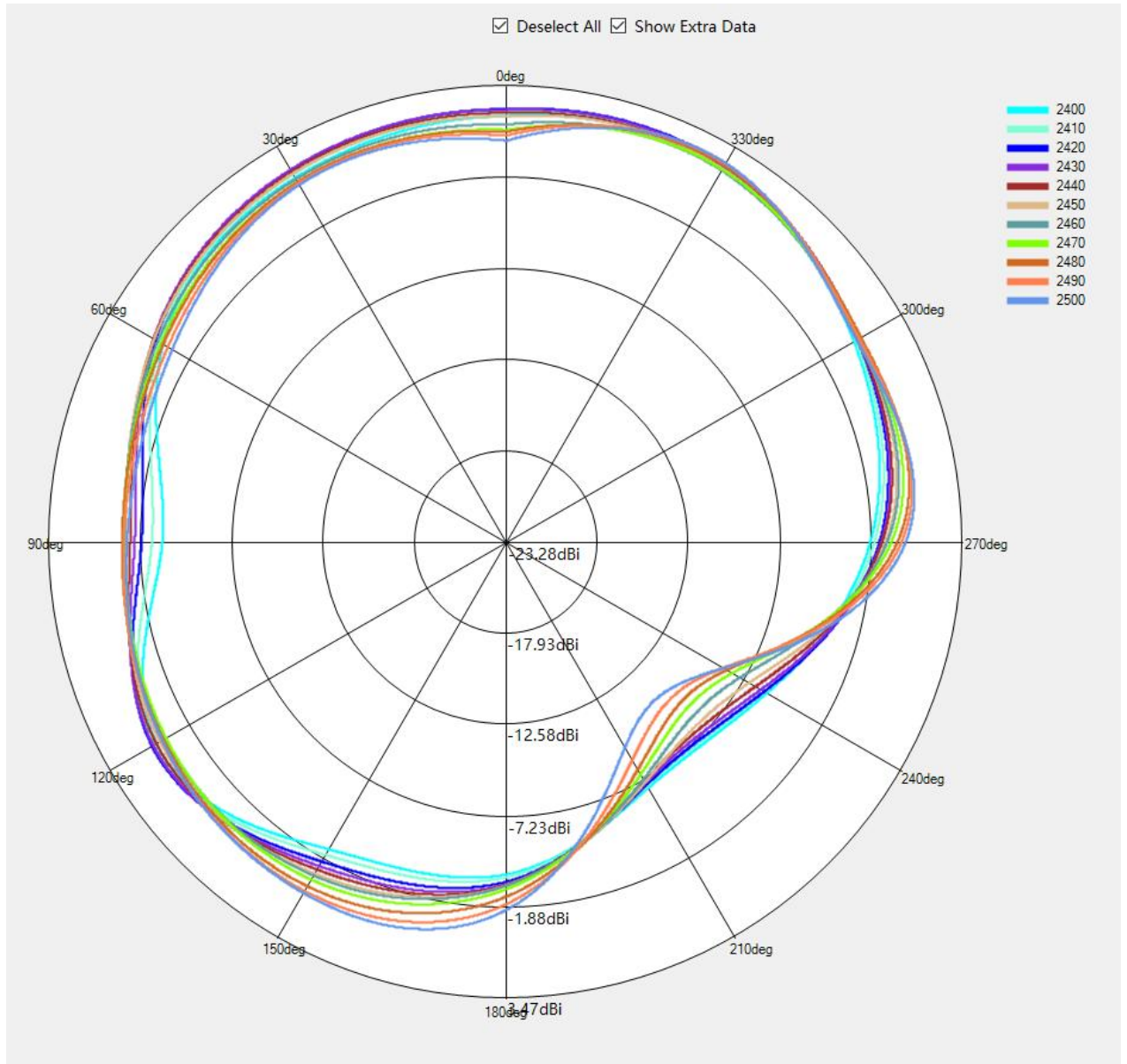
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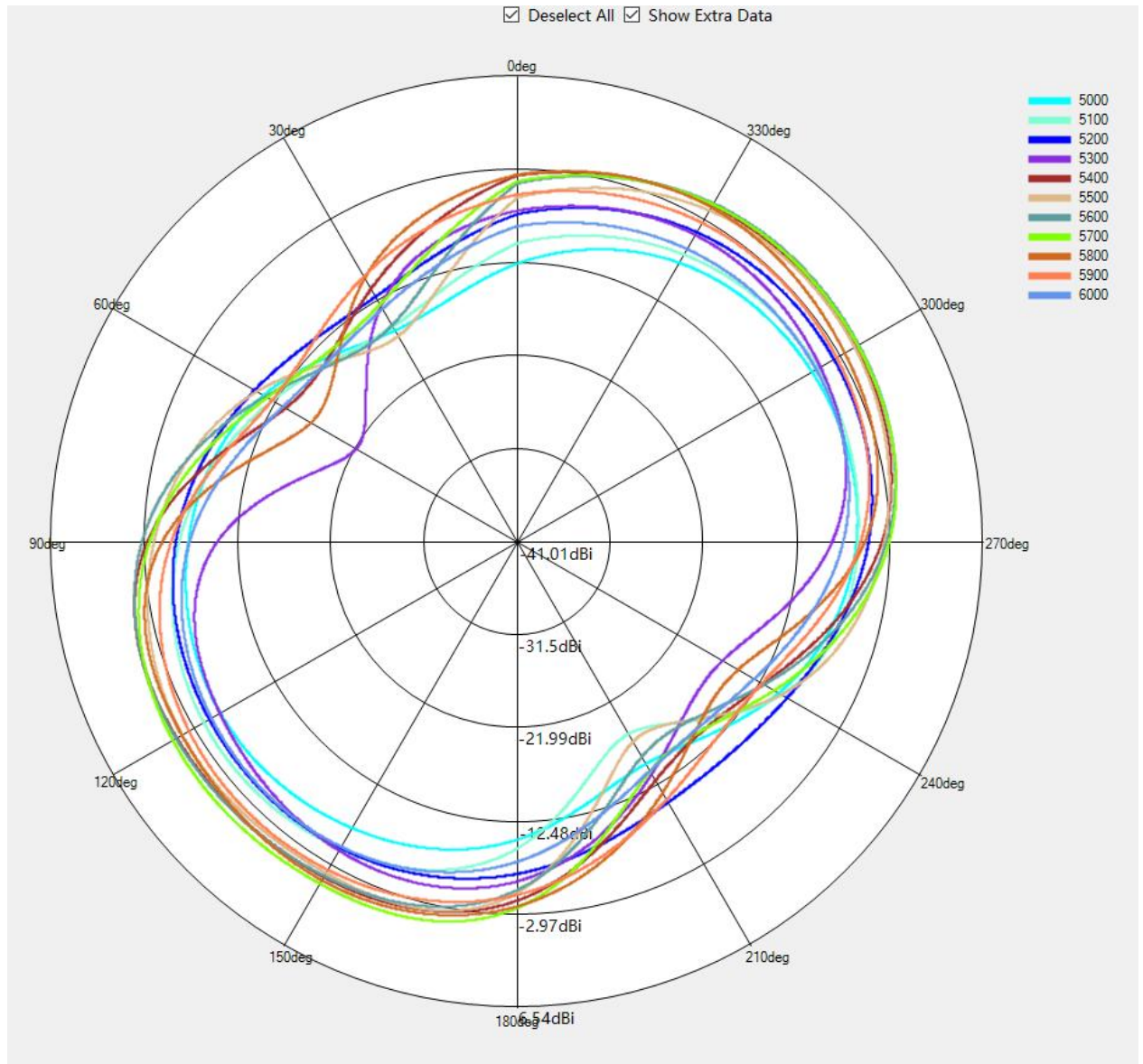
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WiFi 5.8G



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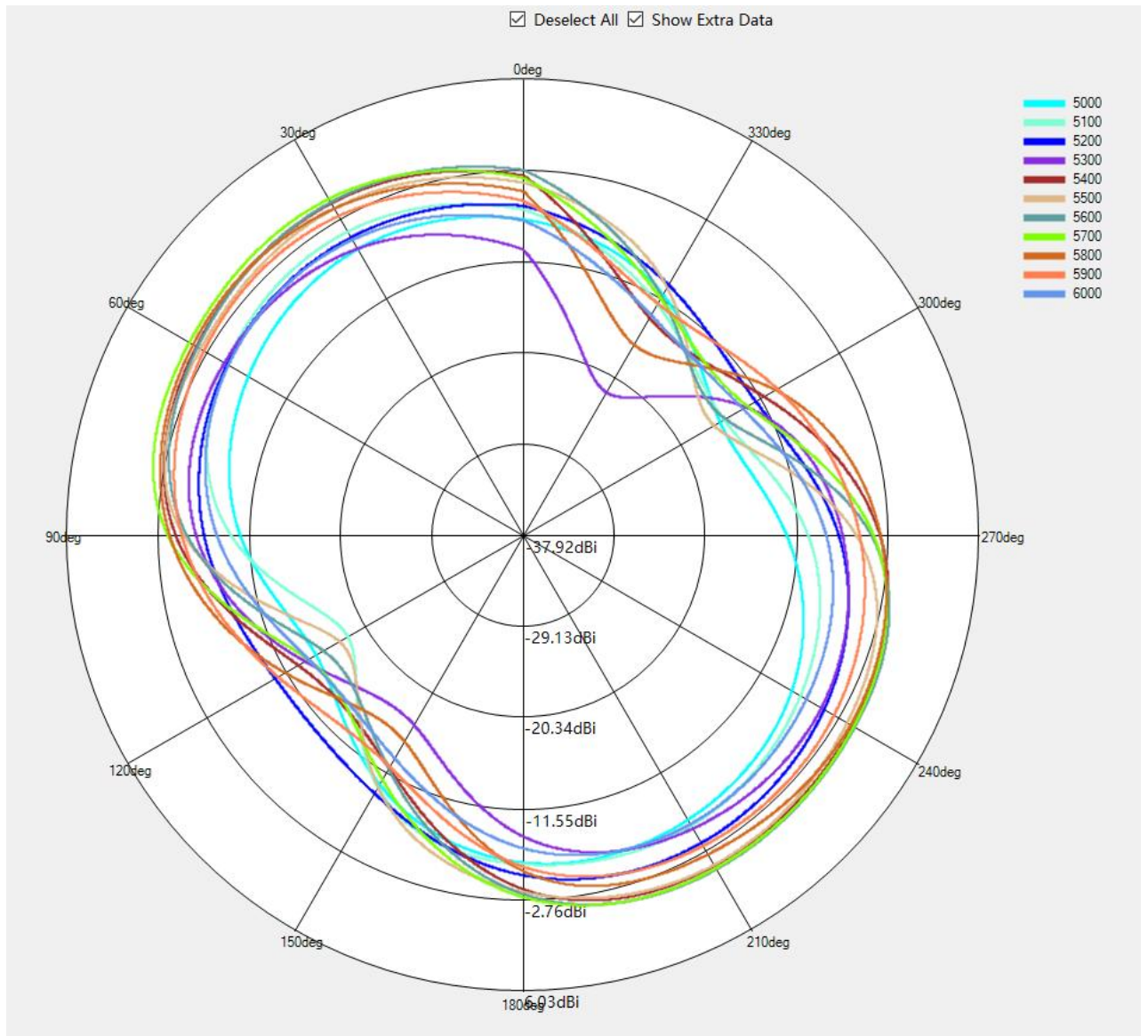
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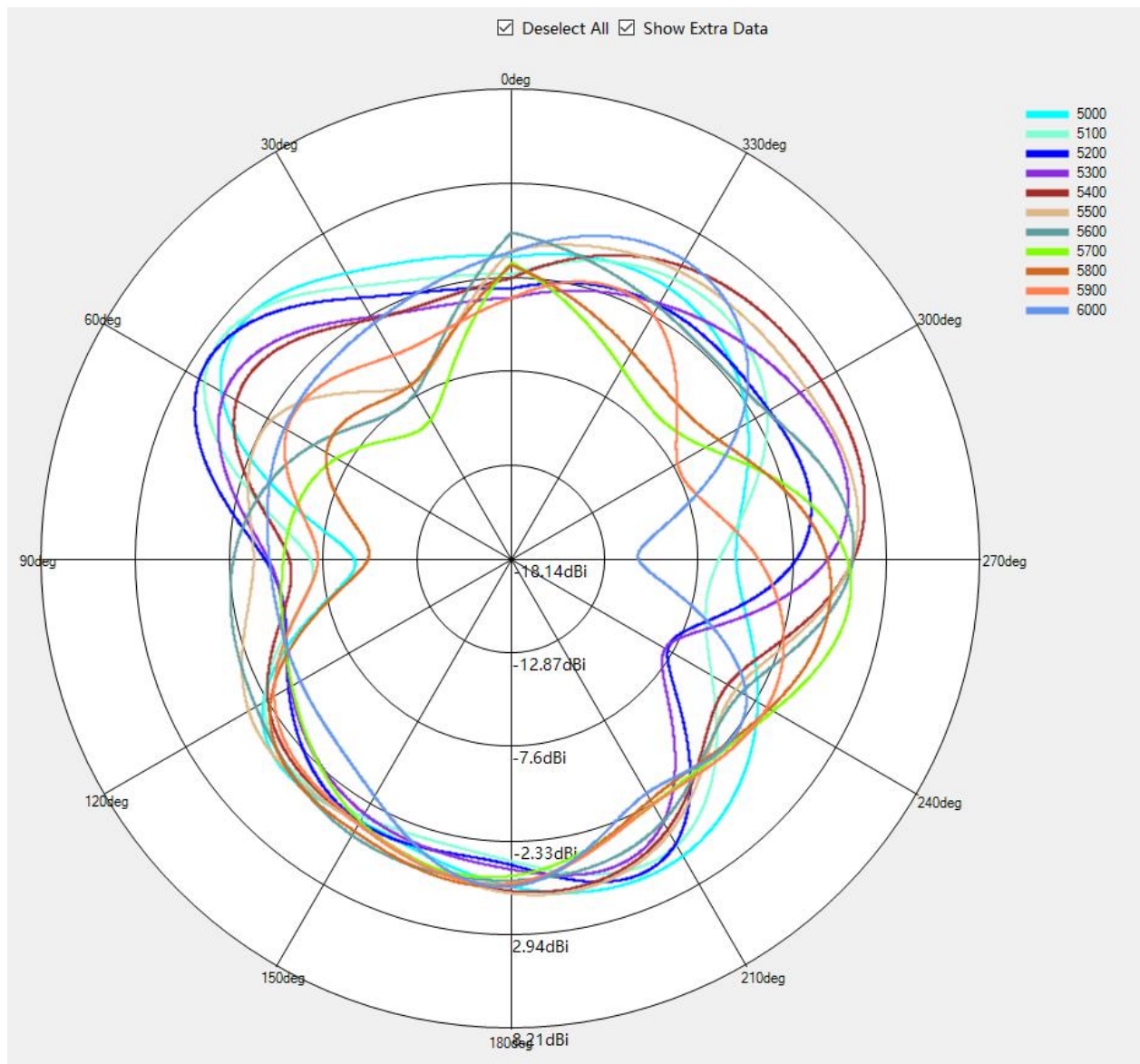
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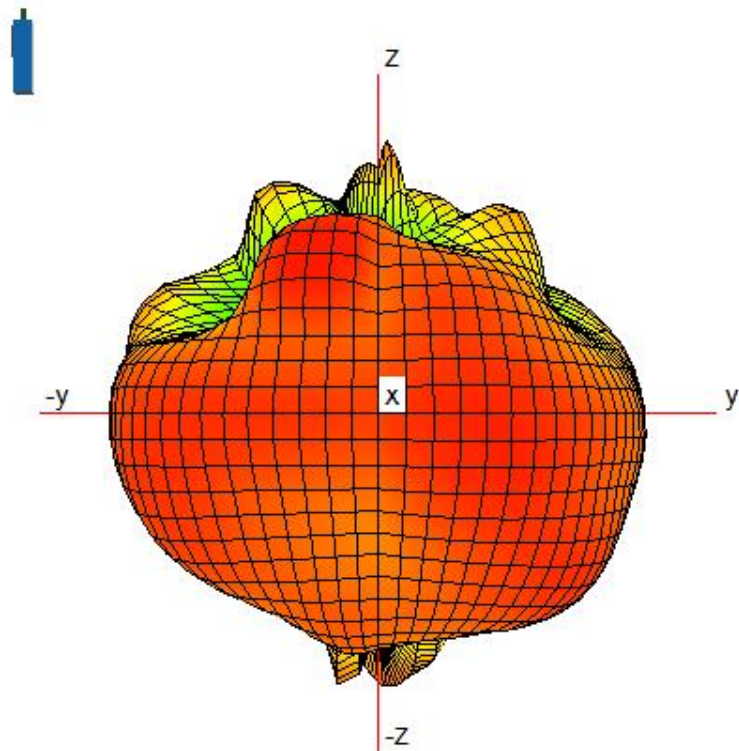
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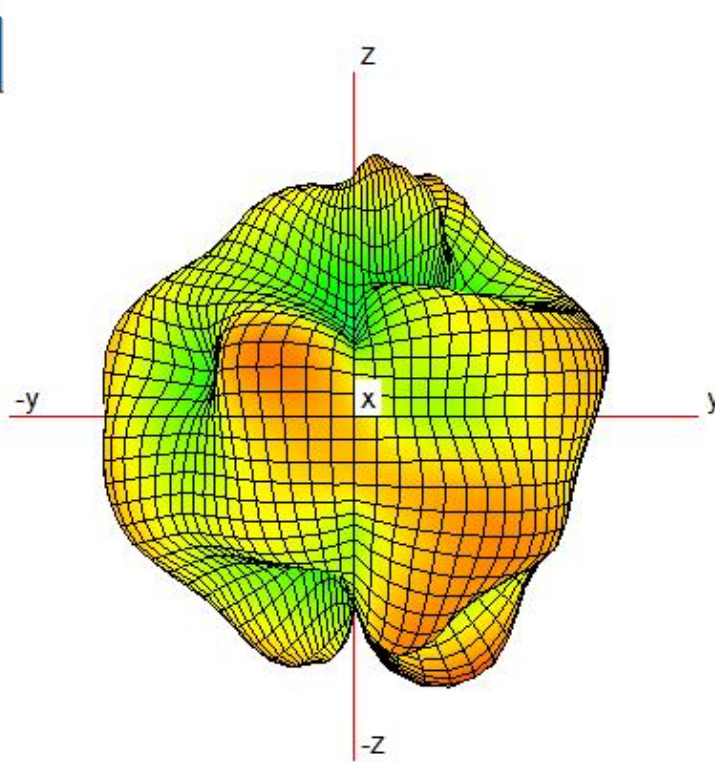
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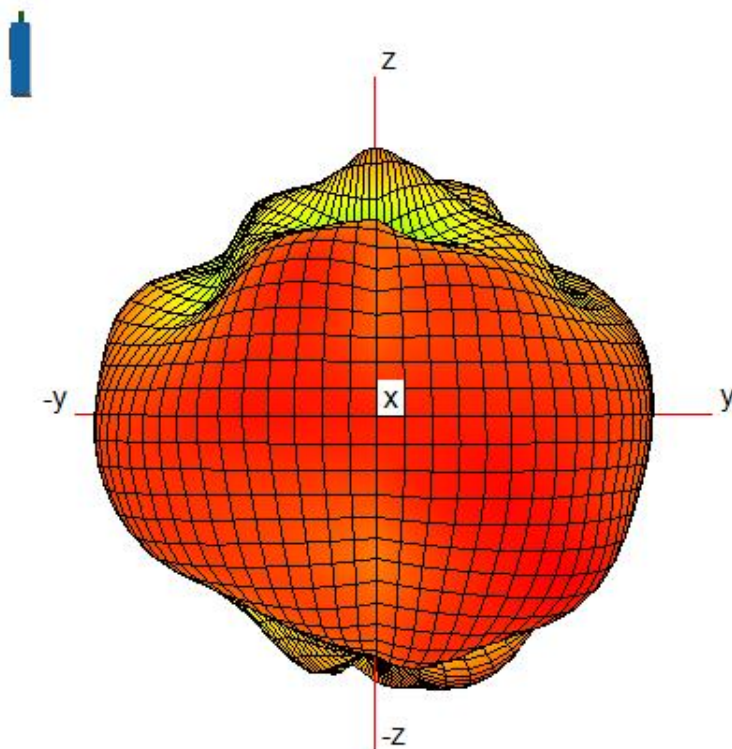
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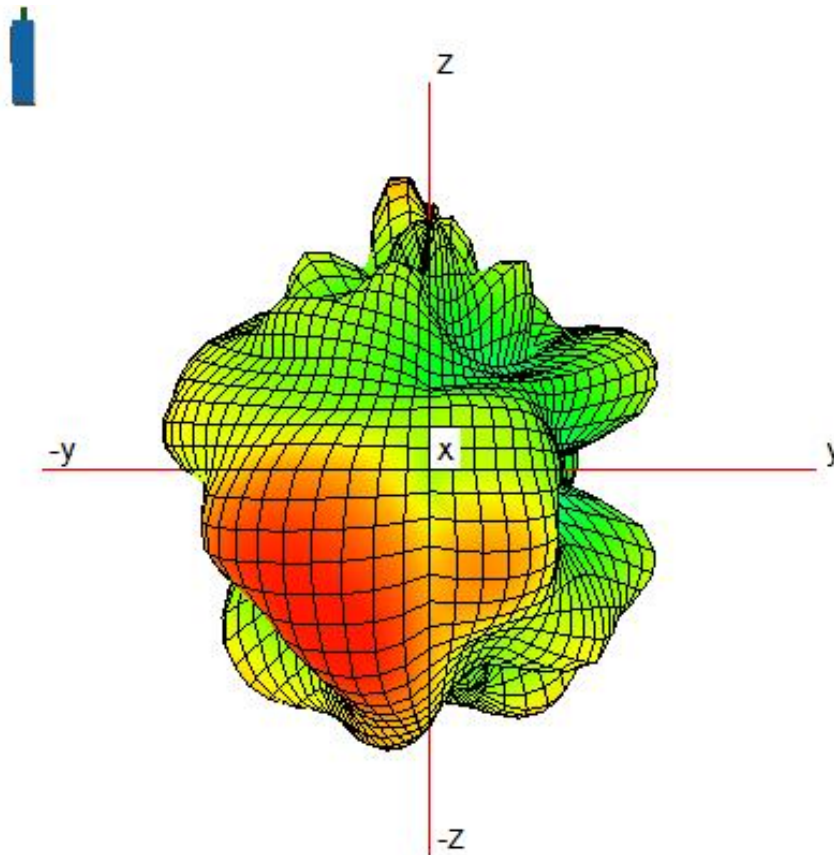
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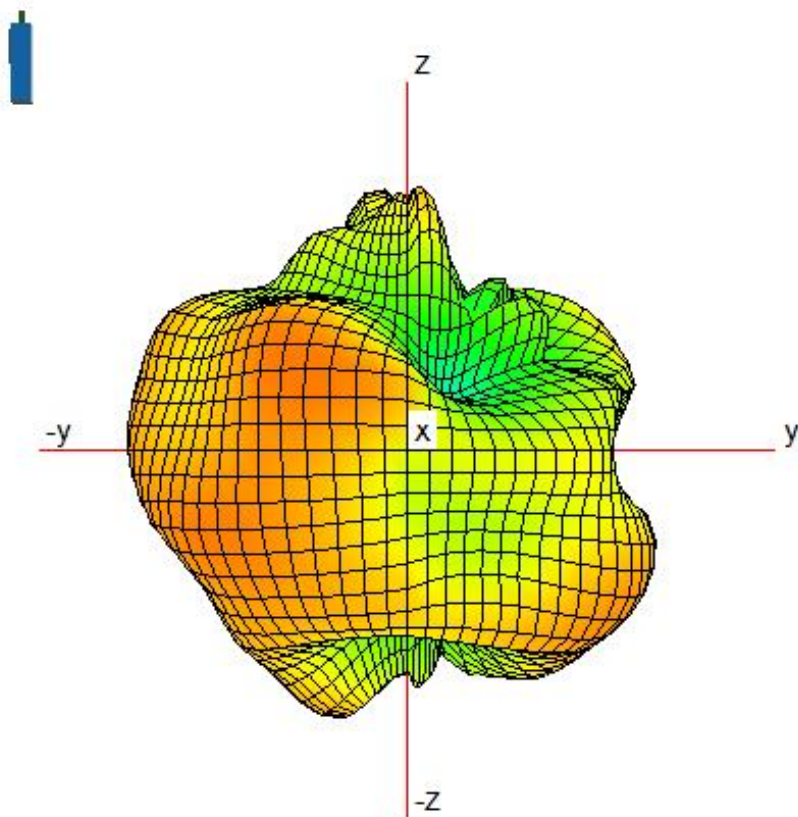
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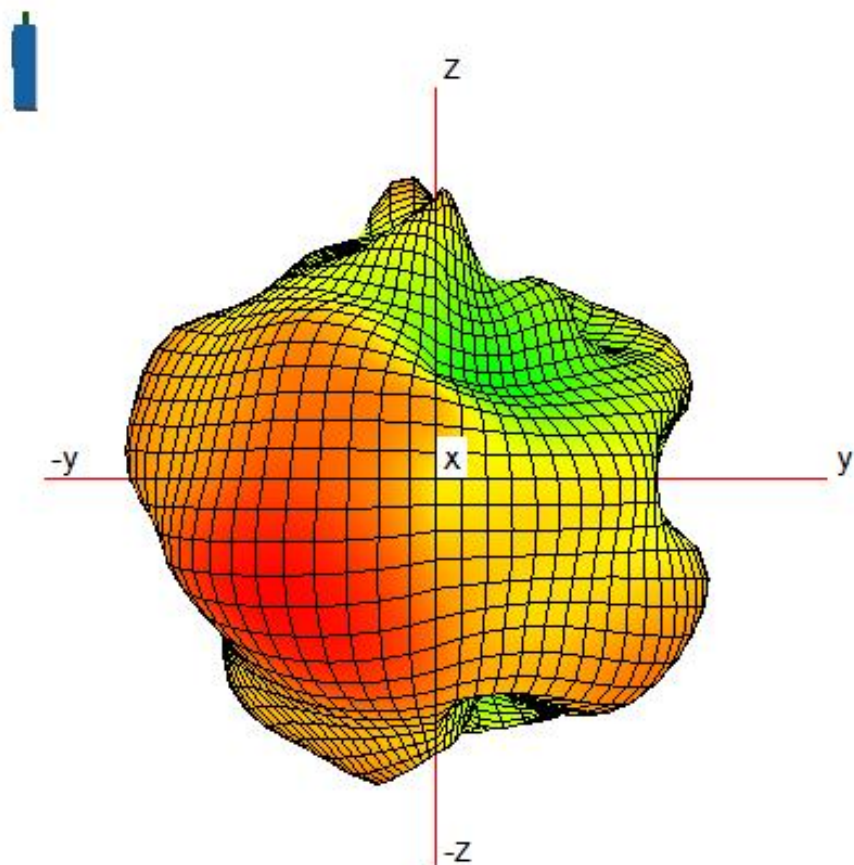
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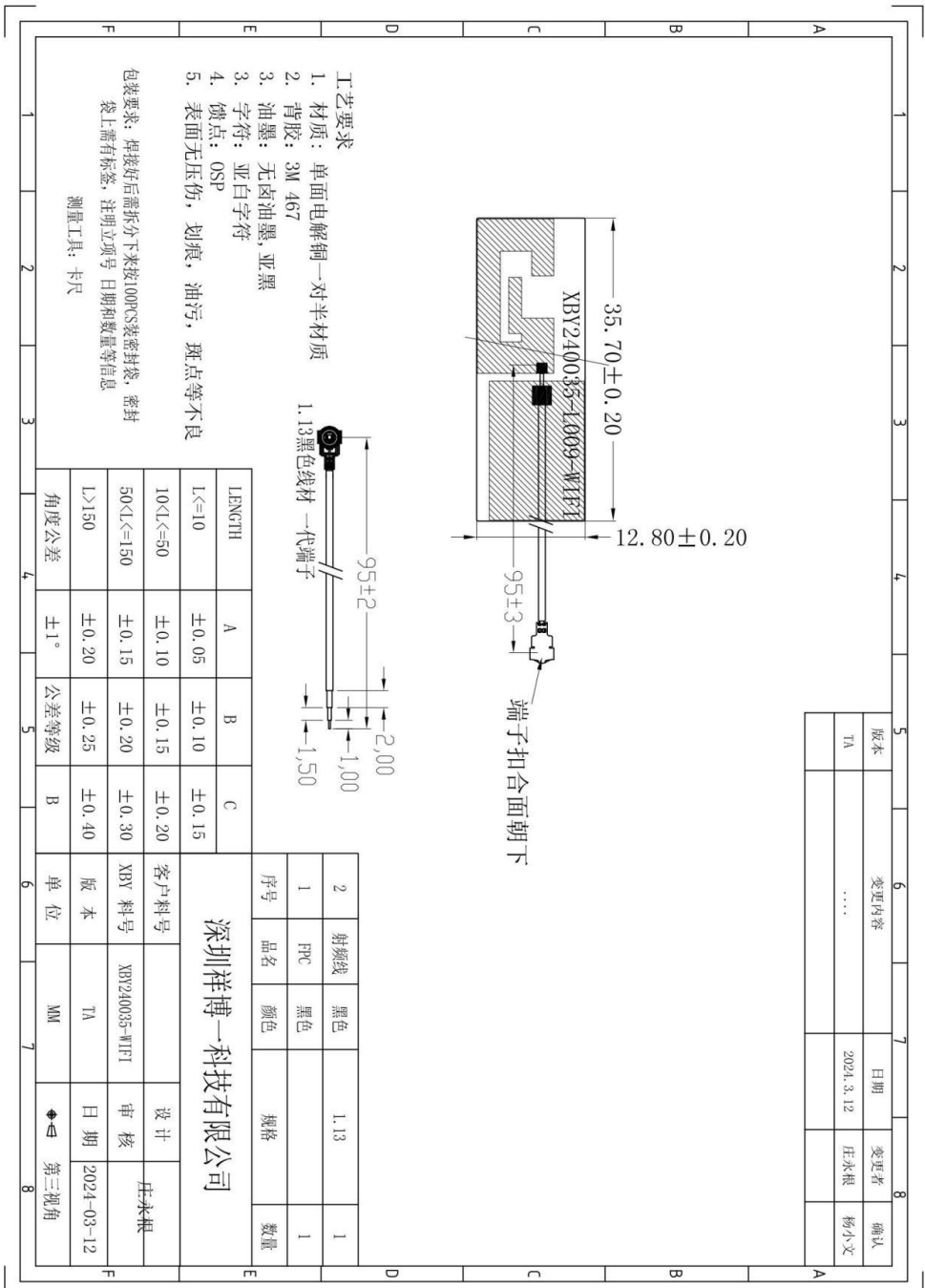
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六. 工程图 Engineering Drawing



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