



Shenzhen Yimingyuan Technology Co., Ltd

One stop communication RF antenna solution manufacturer

Antenna test report

Shenzhen Yimingyuan Technology Co., Ltd

Address: 2nd Floor, Building 5, Yifenghua Innovation
Industrial Park, Dalang Street, Longhua District, Shenzhen

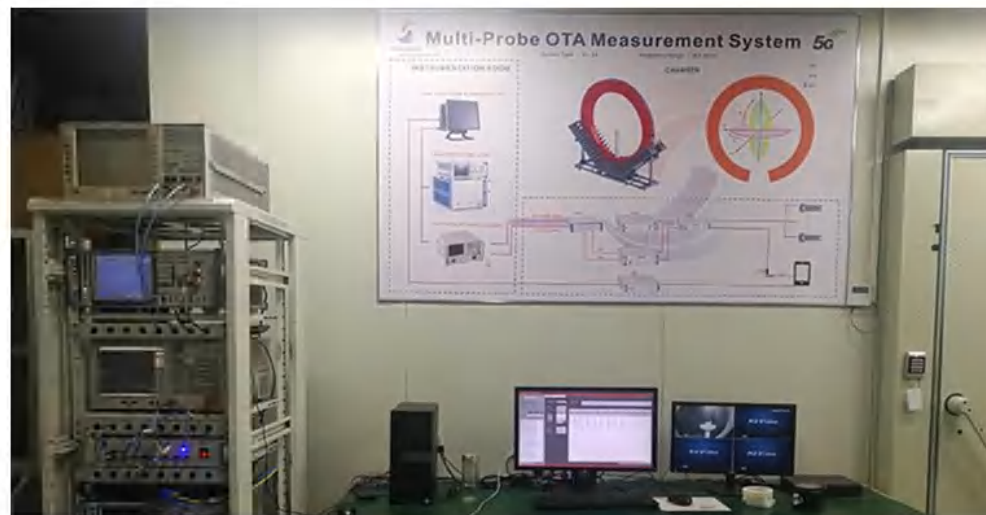
Operator: concorde dongle

tester: Huang He

TEL: 134 2435 5302

Report edition: 2026.05.22

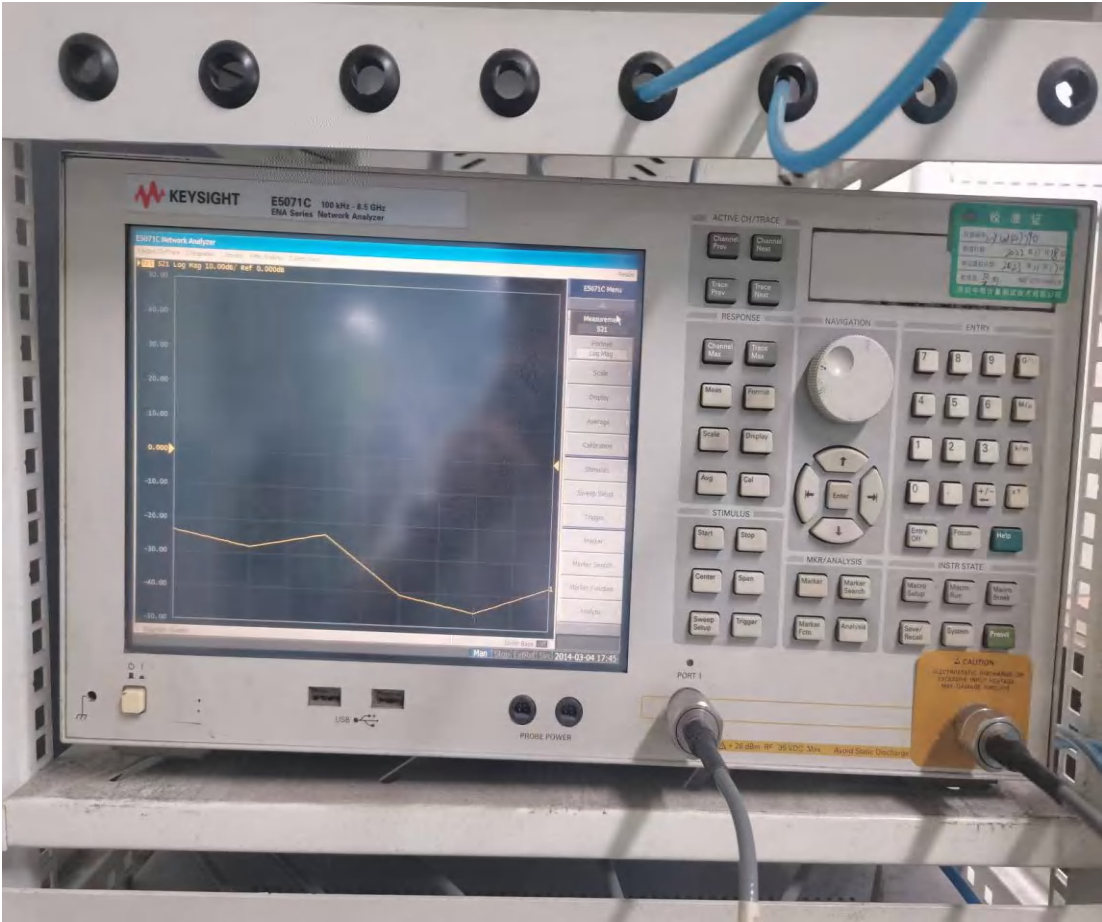
Project Development Environment



亿铭远一直都是您值得信赖且优秀的合作伙伴，我们为您提供全方位一站式的产品以及技术服务！

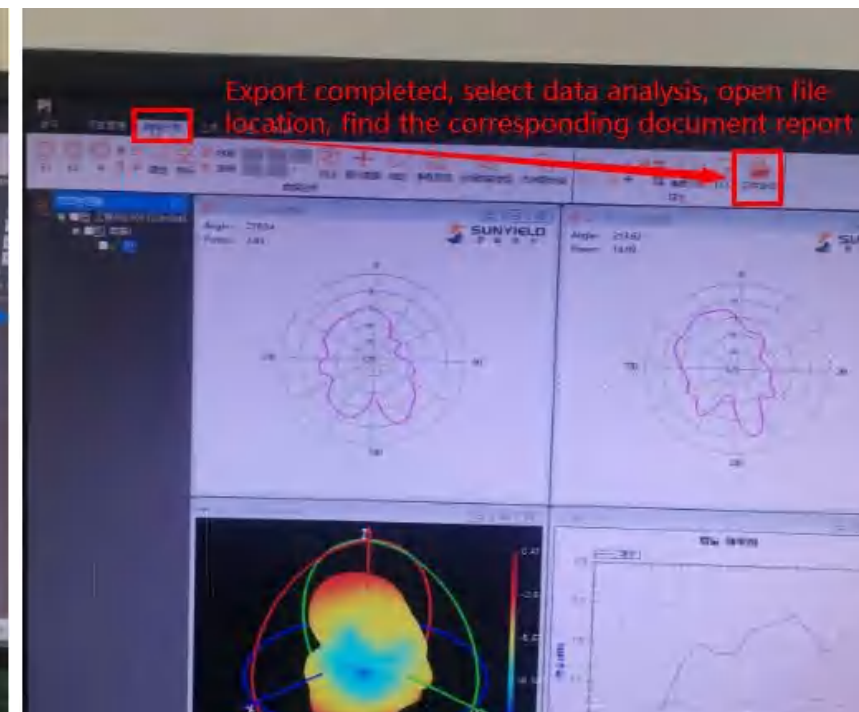
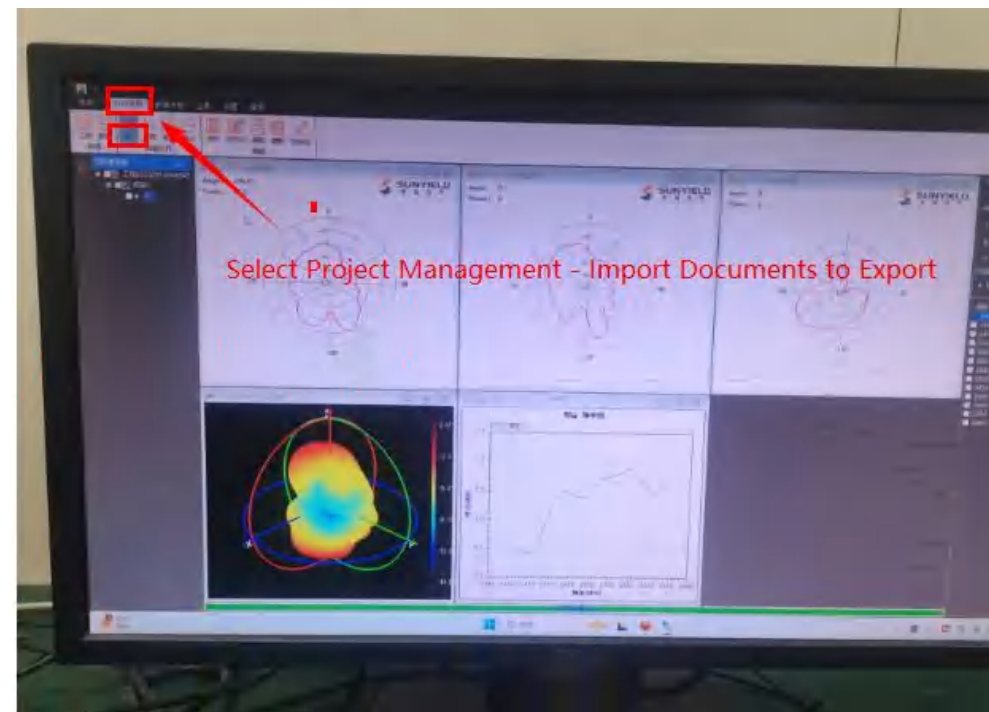
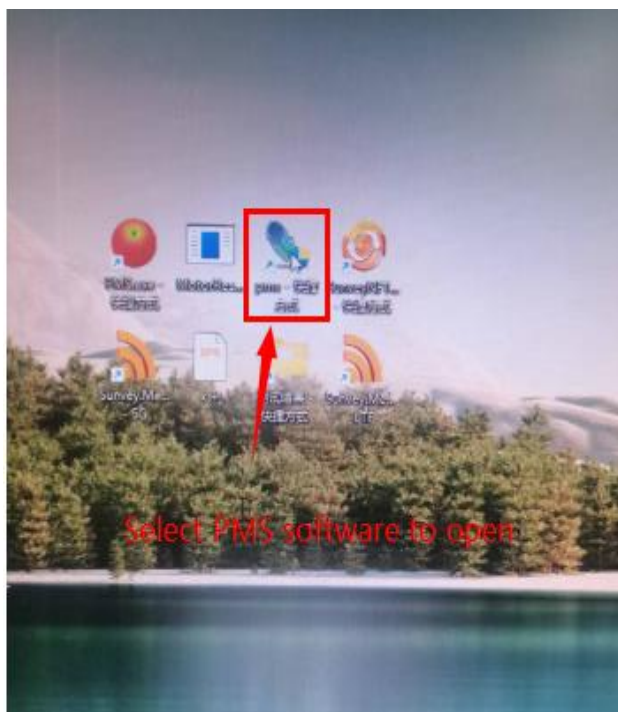
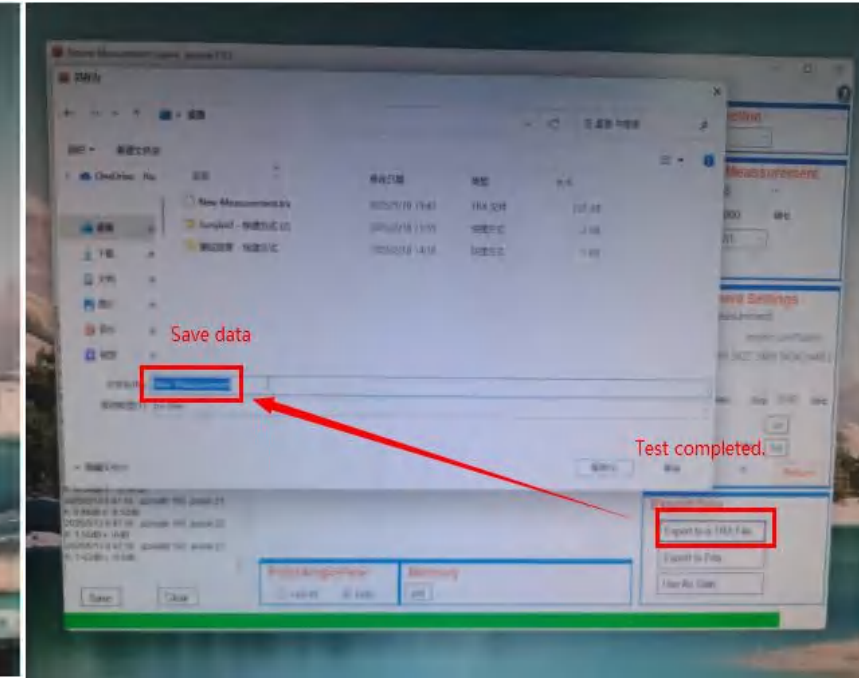
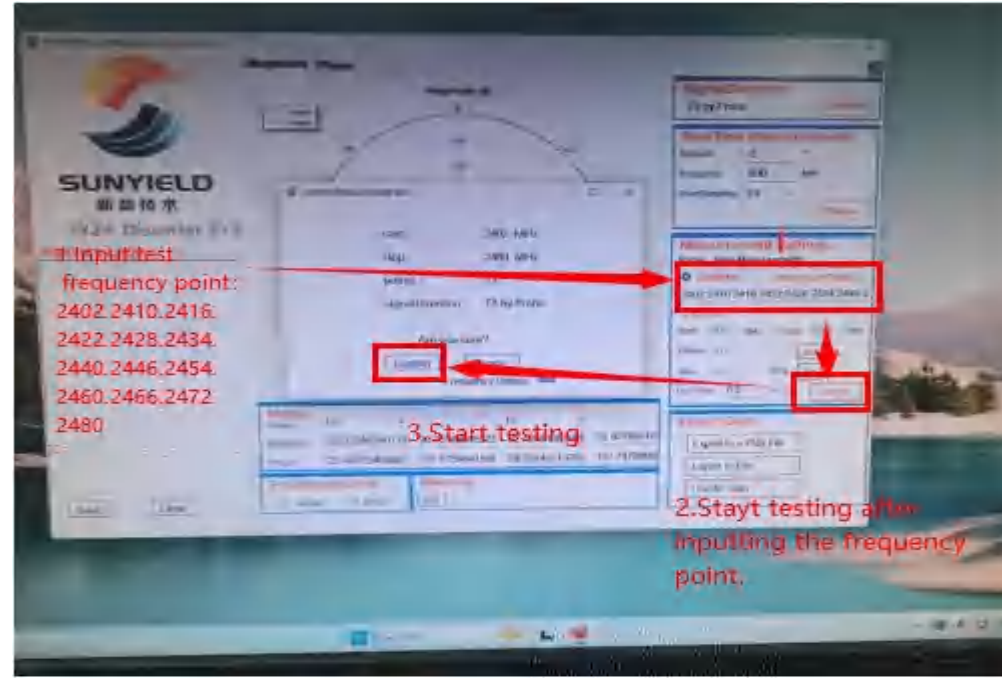
“质量第一，服务至上”是亿铭远一直以来的发展宗旨

Testing instruments and software



name	network analyzer
brand	Agilent Technologies
model	E5071C
serial number	MY46104453
calibration time	2025/8/25
Next calibration time	2026/8/24

Test steps and data export



Information of Antenna

Customer Information:

Customer: Dongguan Thermal Electronic Technology Co., Ltd

Customer Address: No. 28 Jinyuling Road, Dongcheng Street,
Dongguan City, Guangdong Province, China

Project Name: concorde dongle

Antenna manufacturing information:

Antenna manufacturing: Shenzhen Yimingyuan Technology Co., Ltd

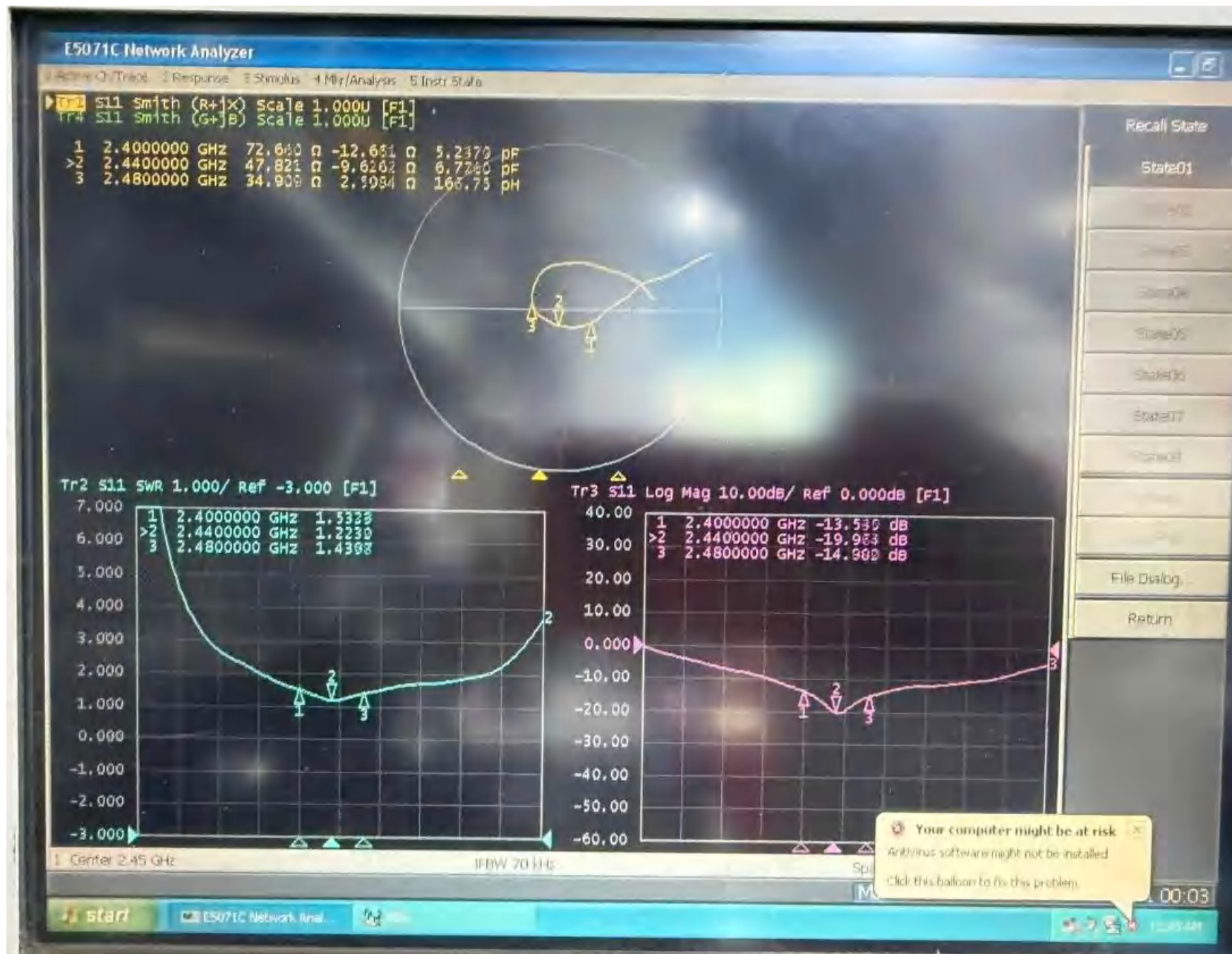
Antenna model: concorde dongle

Antenna type: FPC antenna

Antenna gain: 1.78dBi

Antenna manufacturing address: 2nd floor, East Building,
Building 5, Da Lang Yi Feng Hua Industrial Park, Huaning Road,
Longhua District, Shenzhen

Antenna smith circle chart and S11 parameters



Antenna efficiency

深圳市亿铭远科技有限公司

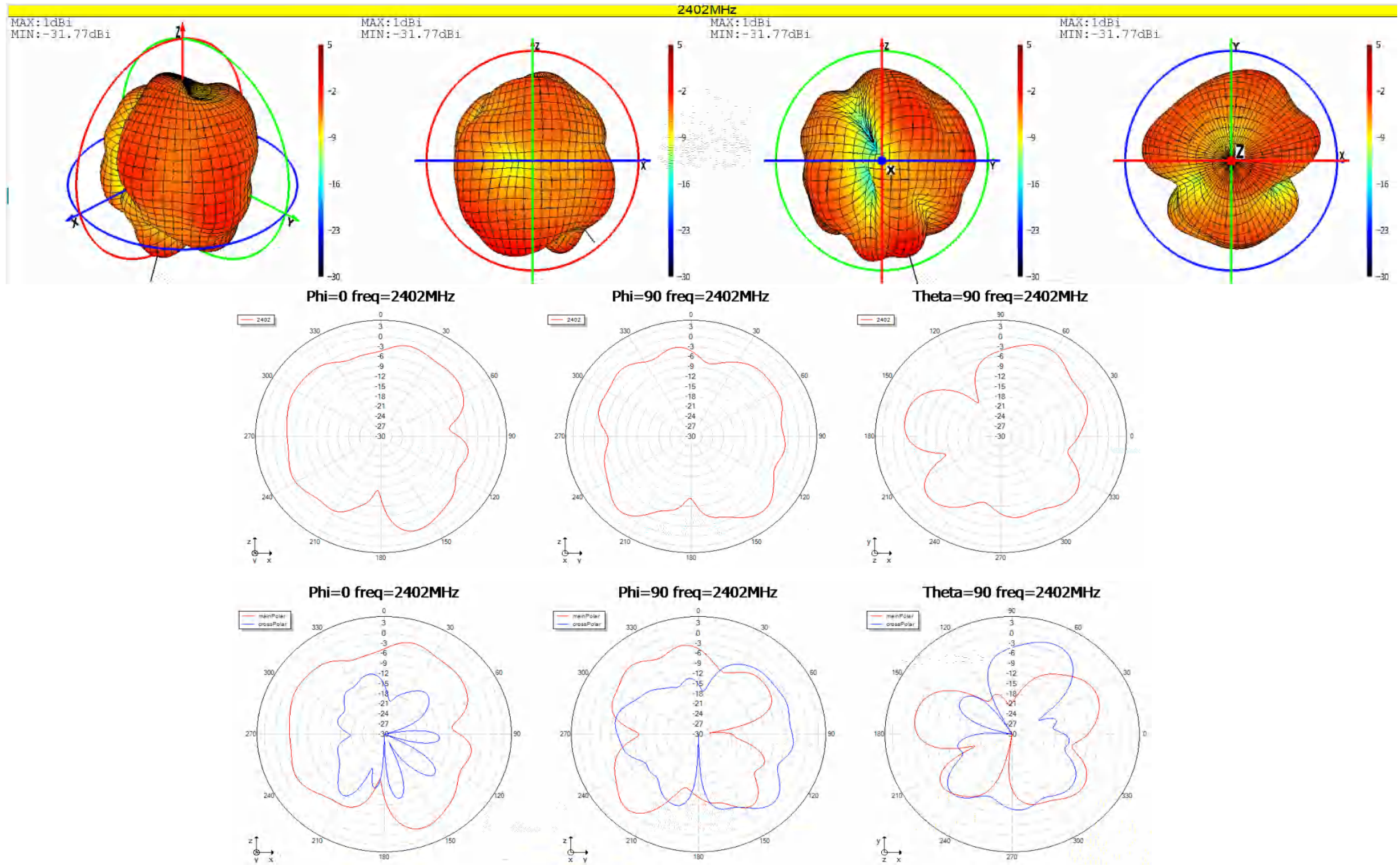
测试数据报告

地址：深圳市龙华区大浪街道颐丰华创新产业园5栋2楼

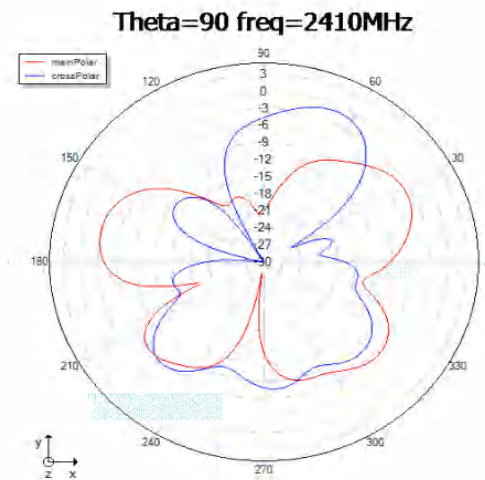
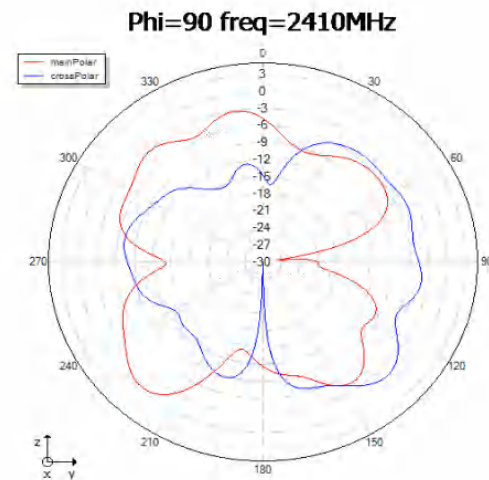
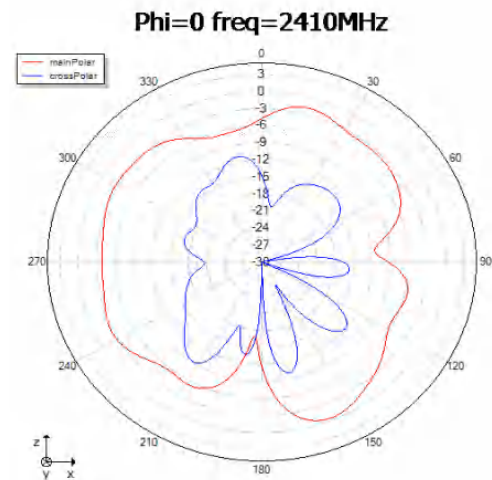
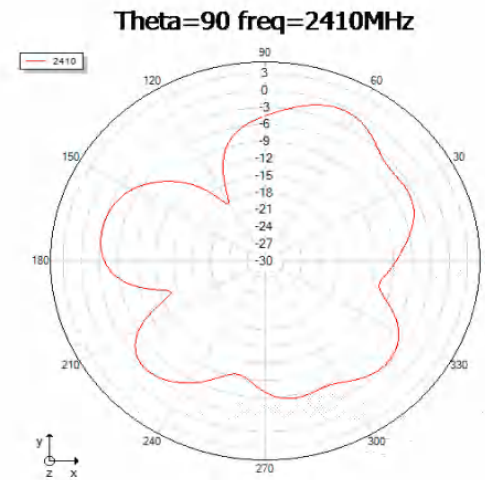
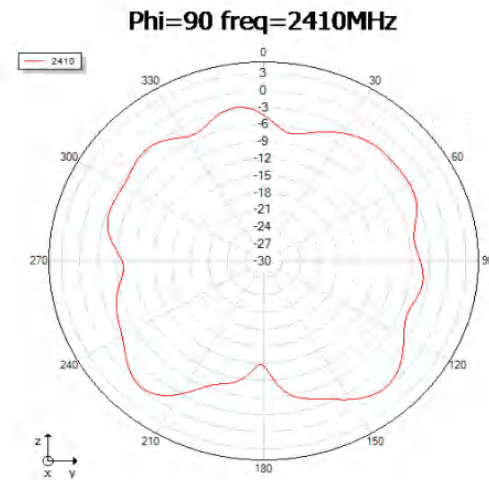
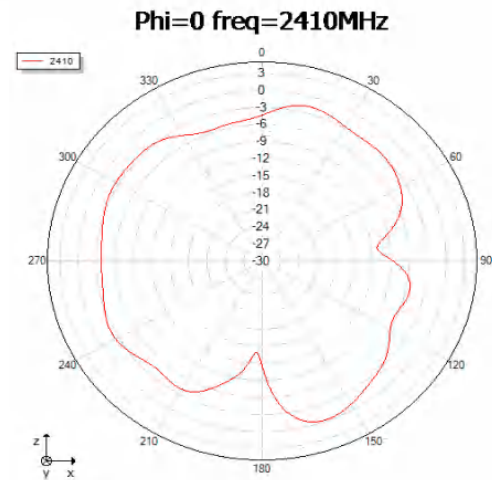
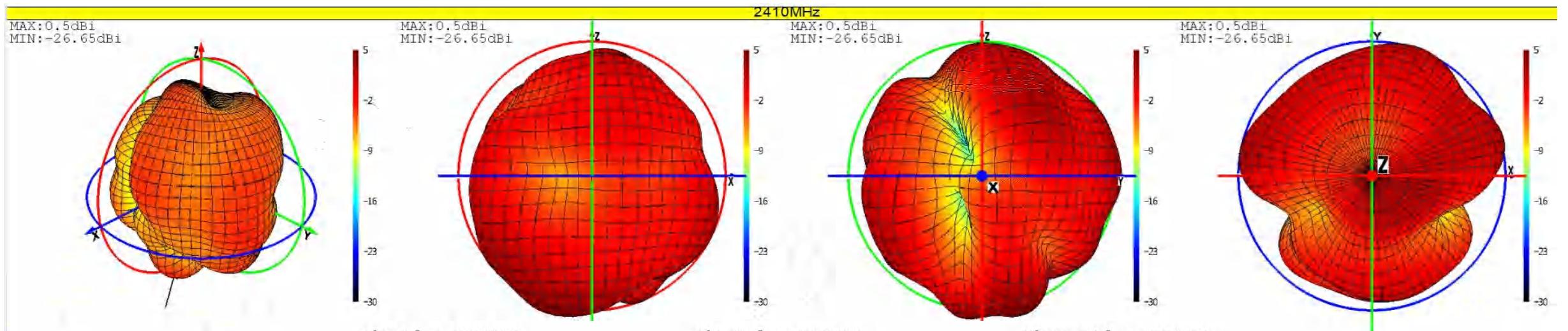
软件版本：SNF V2.4.3 导出时间：2026/5/21 15:01:58

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Frequency (MHz)	2402	2410	2416	2422	2428	2434	2440	2446	2454	2460	2466	2472	2480
Gain (dBi)	1.00	0.50	0.52	1.06	1.43	1.22	0.95	1.23	1.37	1.62	1.72	1.72	1.78
Efficiency (dB)	-3.59	-3.64	-3.69	-3.32	-3.14	-3.23	-3.12	-2.93	-3.00	-2.90	-2.82	-2.77	-2.73
Efficiency (%)	43.74	43.25	42.76	46.60	48.48	47.54	48.81	50.98	50.14	51.33	52.29	52.79	53.34
Plane: Phi=0	2402	2410	2416	2422	2428	2434	2440	2446	2454	2460	2466	2472	2480
Plane: Phi=90	2402	2410	2416	2422	2428	2434	2440	2446	2454	2460	2466	2472	2480
Plane: Theta=90	2402	2410	2416	2422	2428	2434	2440	2446	2454	2460	2466	2472	2480

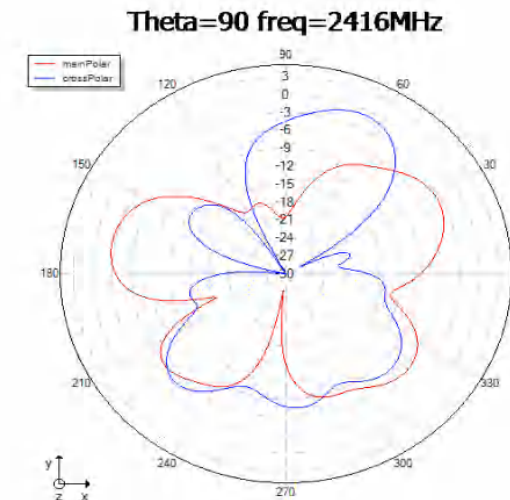
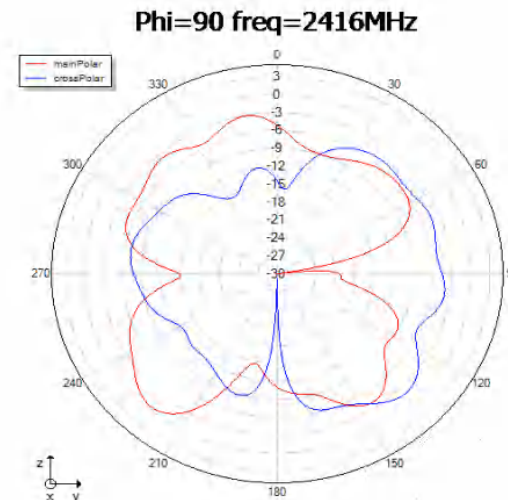
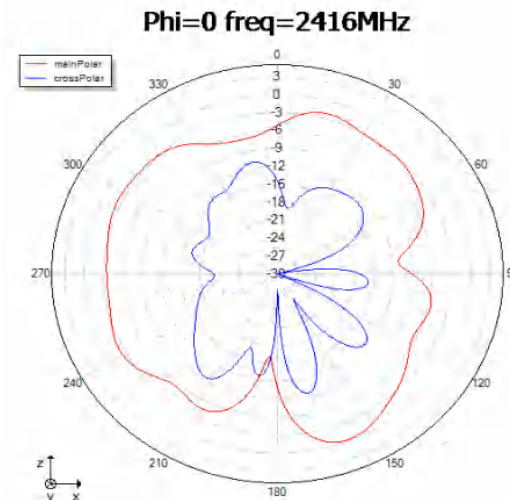
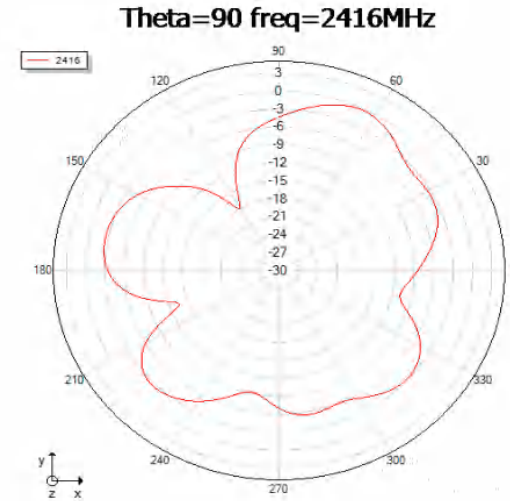
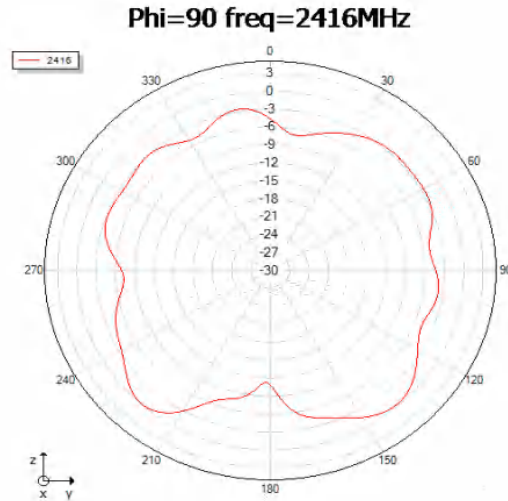
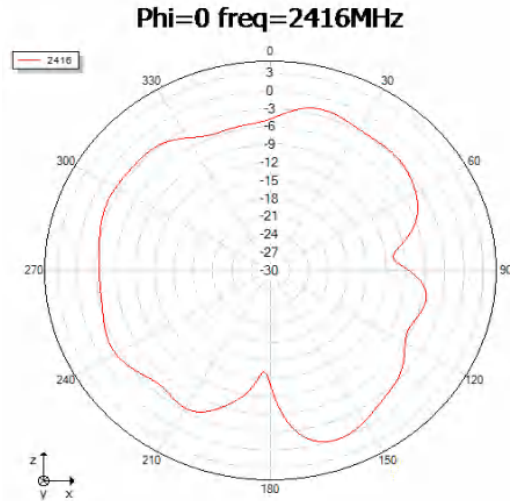
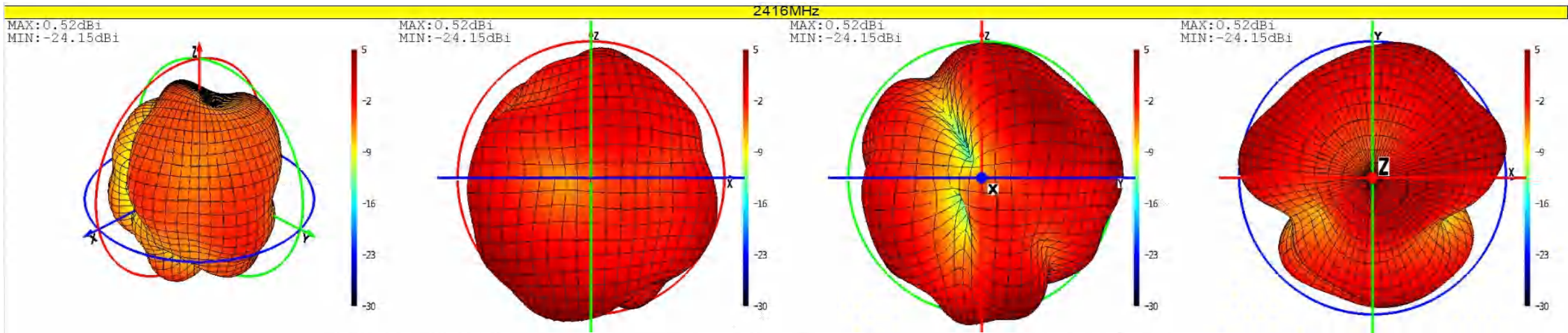
Antenna apple diagram and pattern



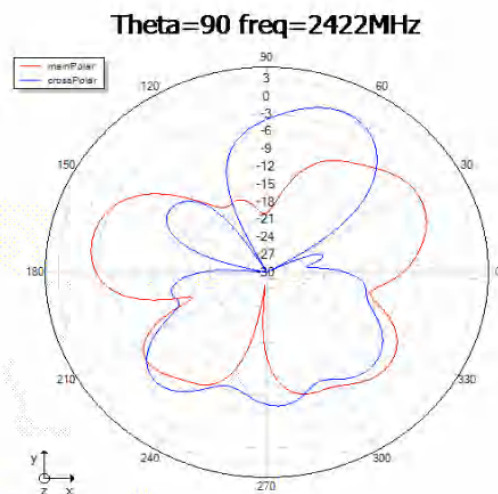
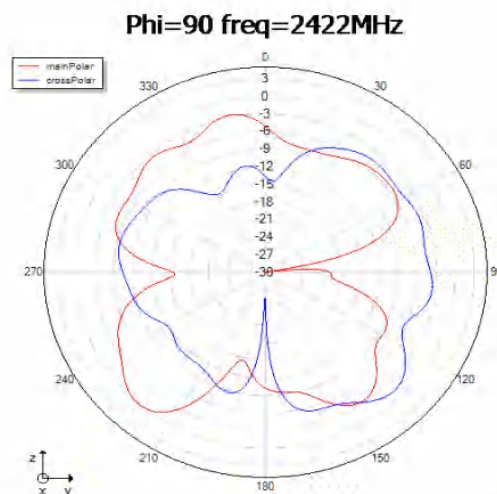
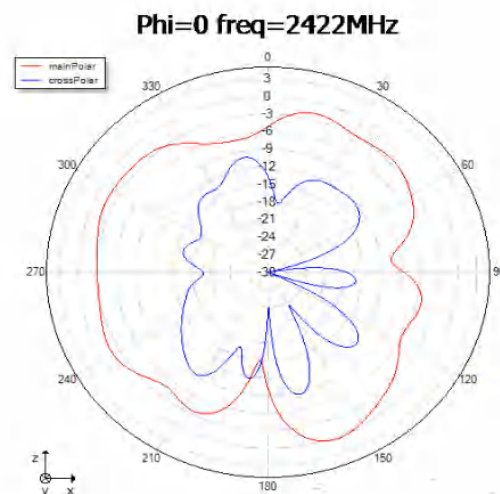
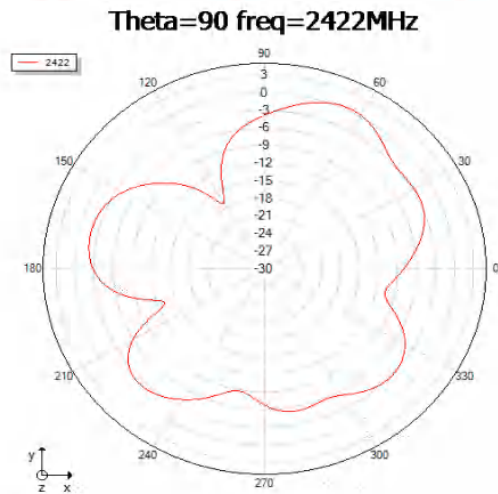
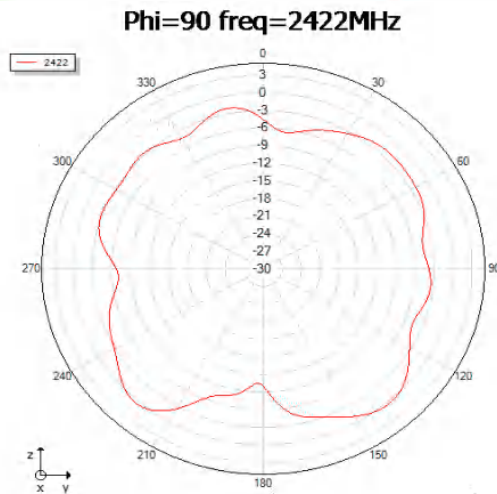
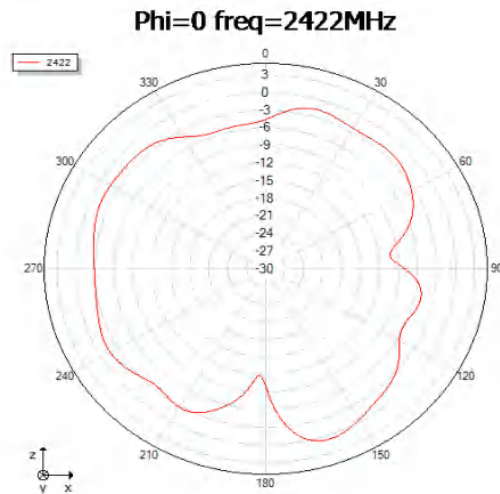
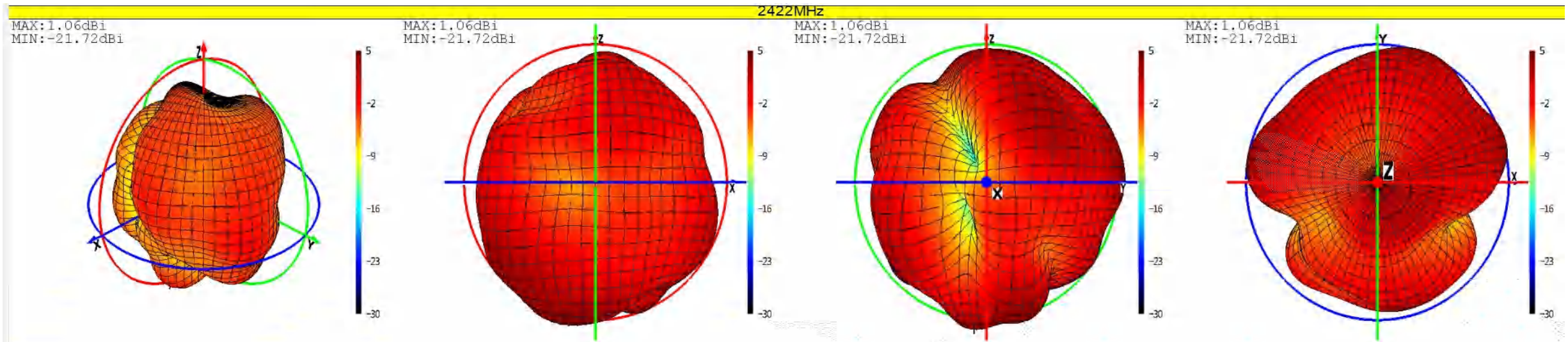
Antenna apple diagram and pattern



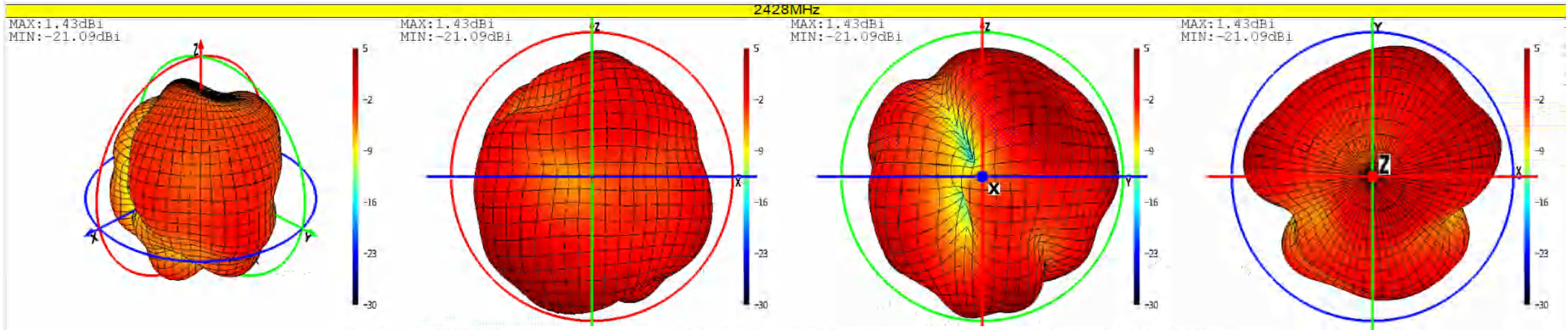
Antenna apple diagram and pattern



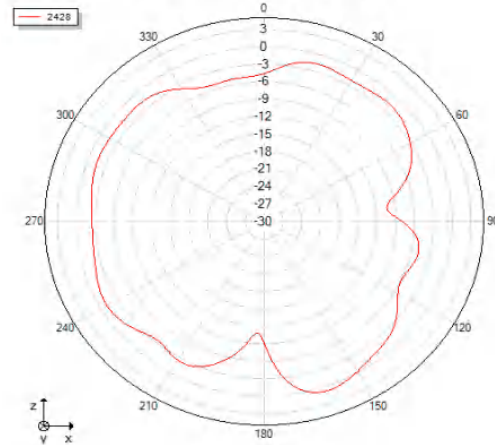
Antenna apple diagram and pattern



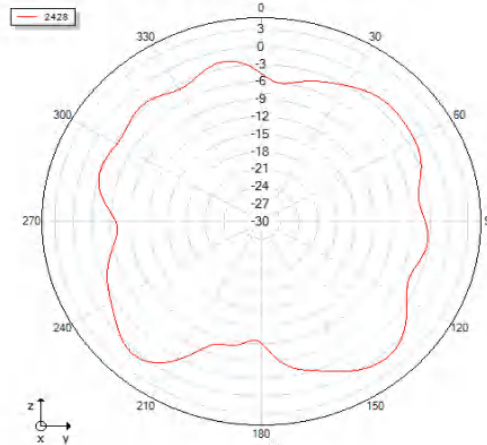
Antenna apple diagram and pattern



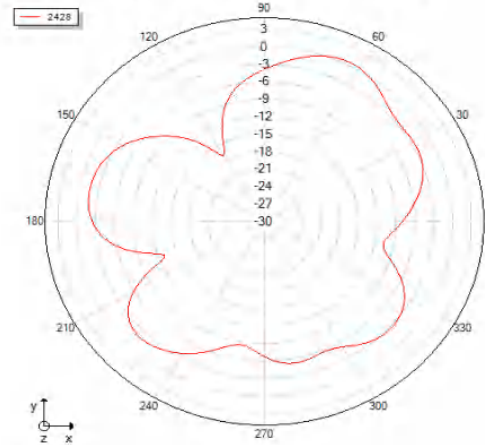
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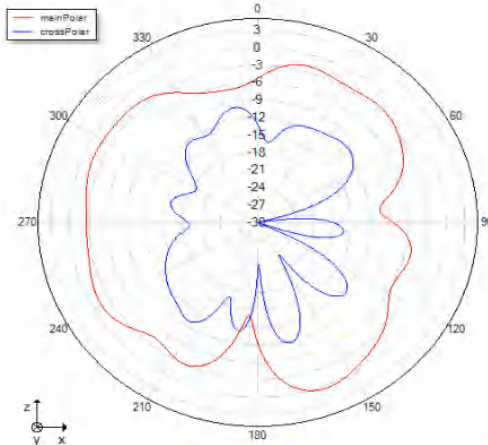
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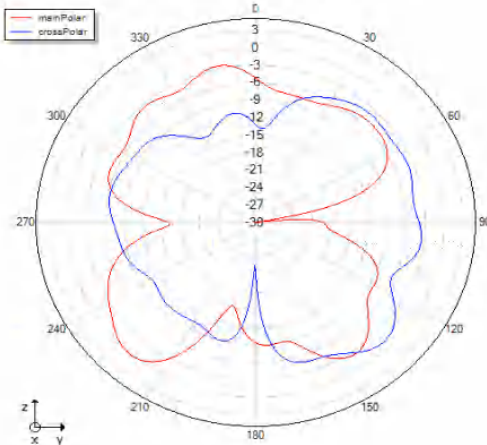
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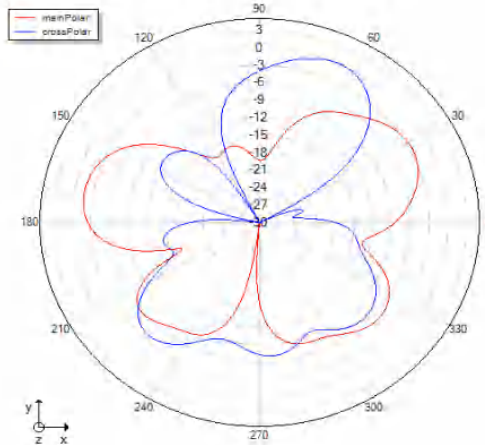
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Phi=90 freq=2428MHz

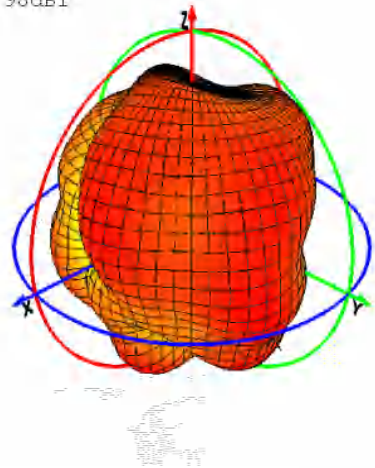


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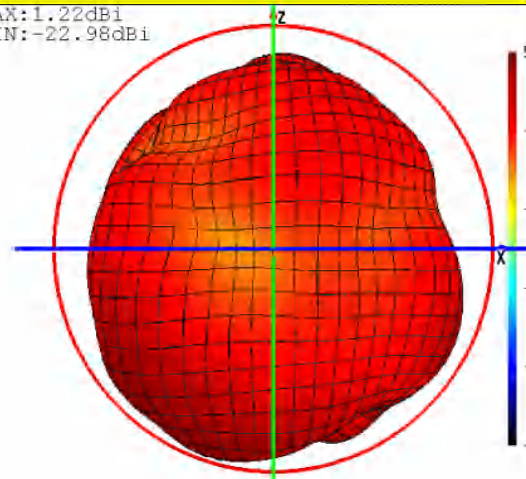


Antenna apple diagram and pattern

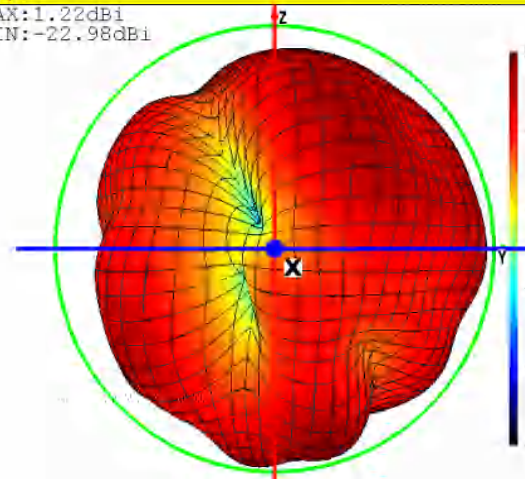
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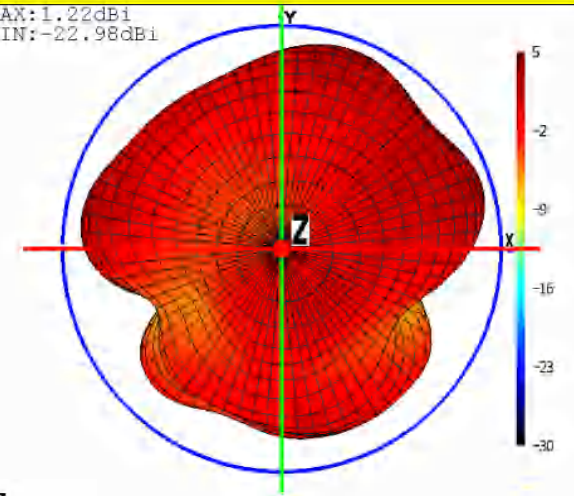
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MIN:-22.98dBi



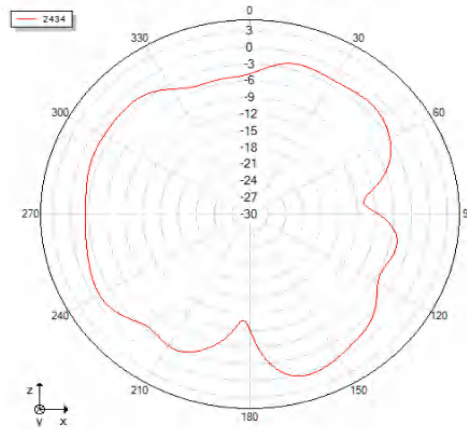
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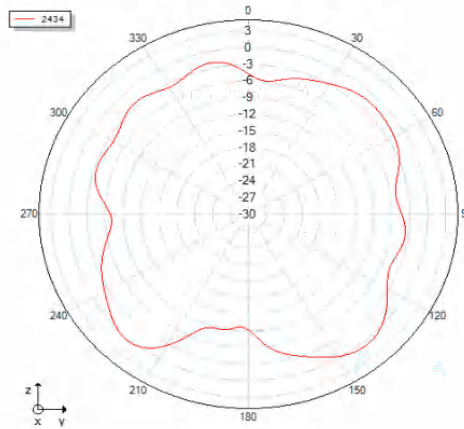
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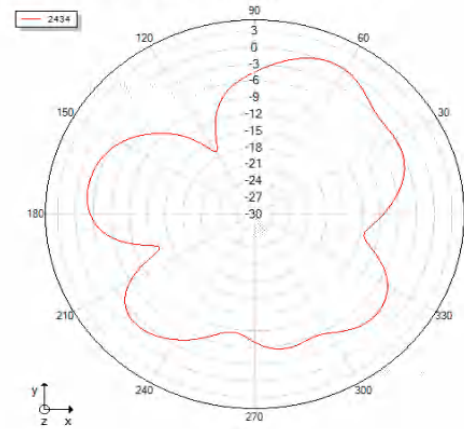
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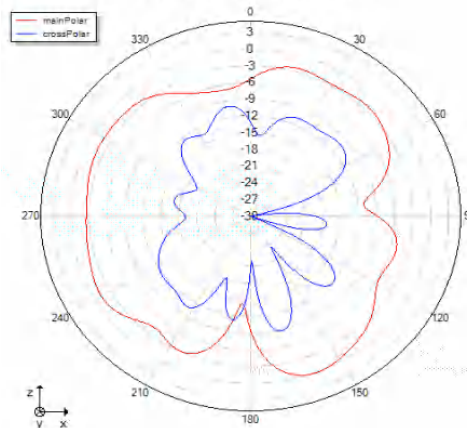
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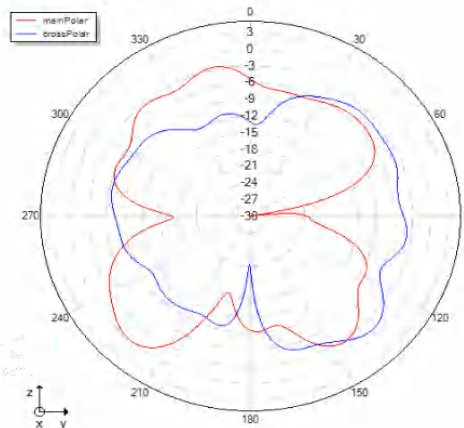
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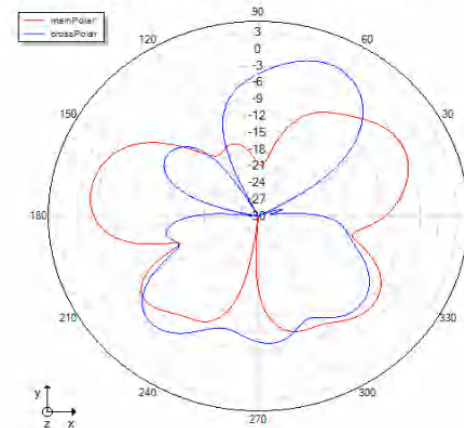
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Phi=90 freq=2434MHz



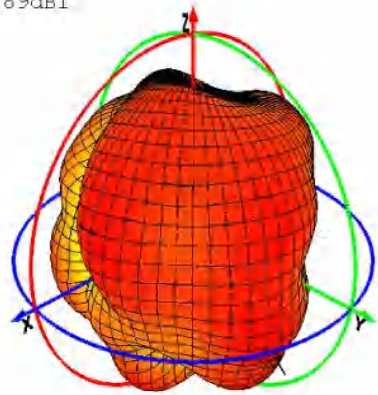
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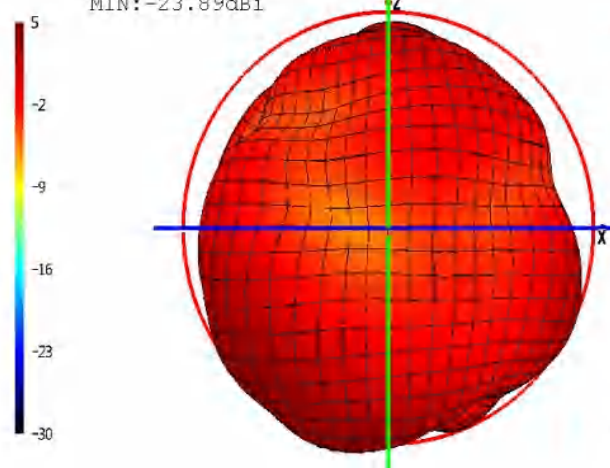
Antenna apple diagram and pattern

2440MHz

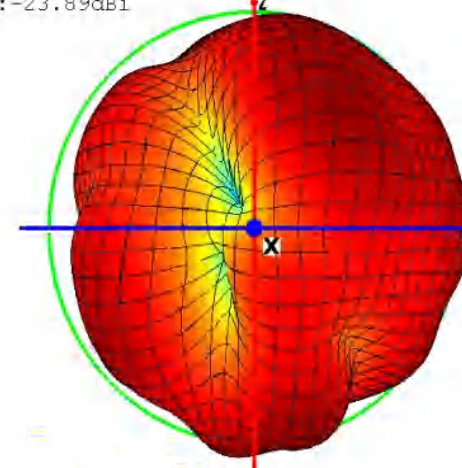
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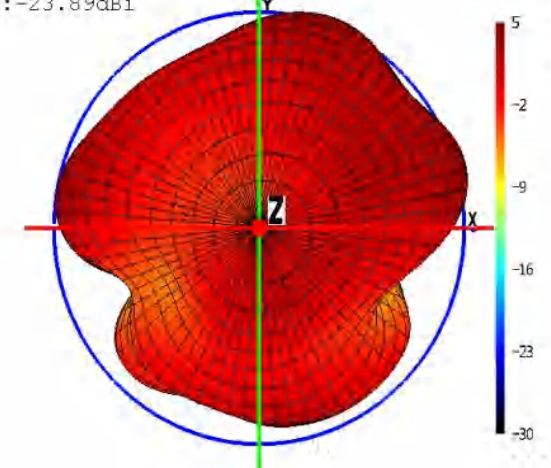
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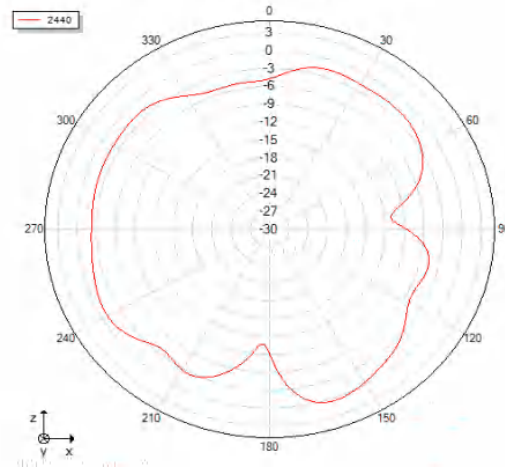
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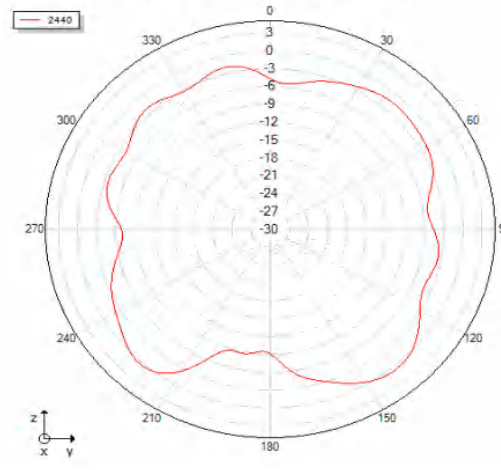
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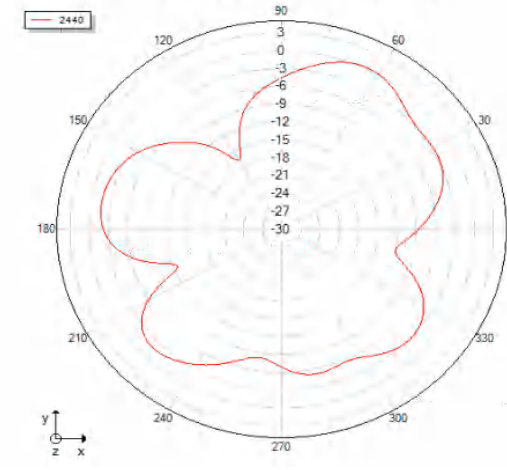
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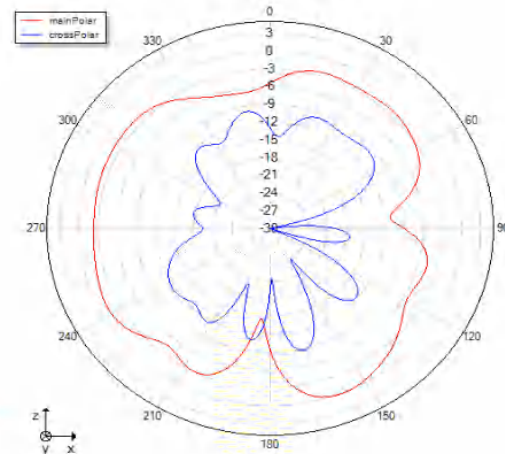
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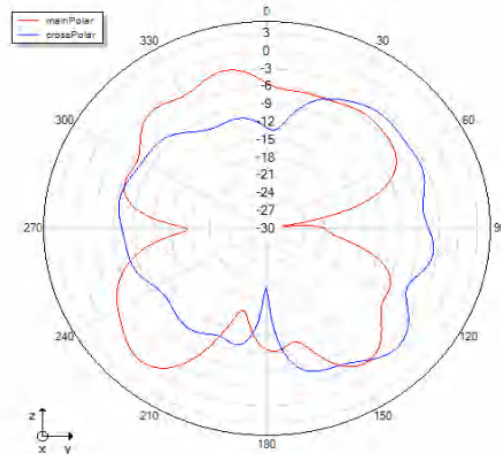
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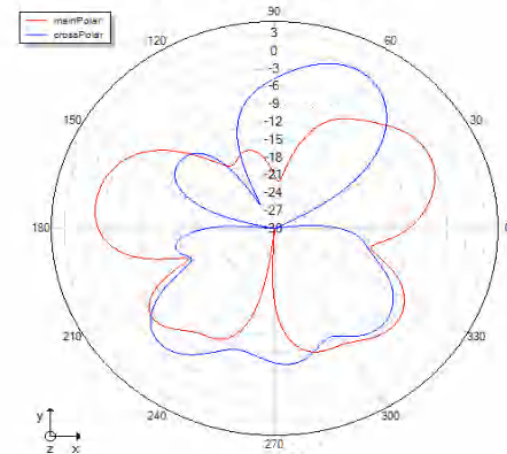
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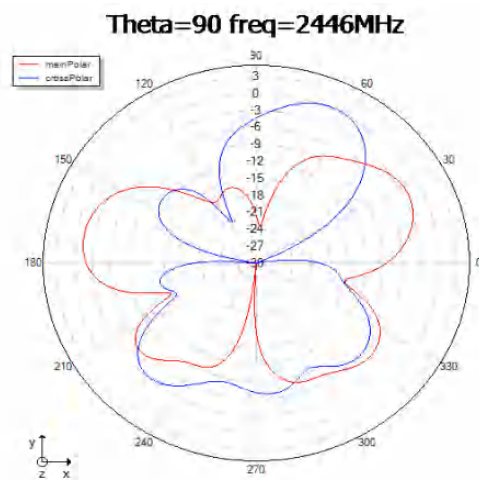
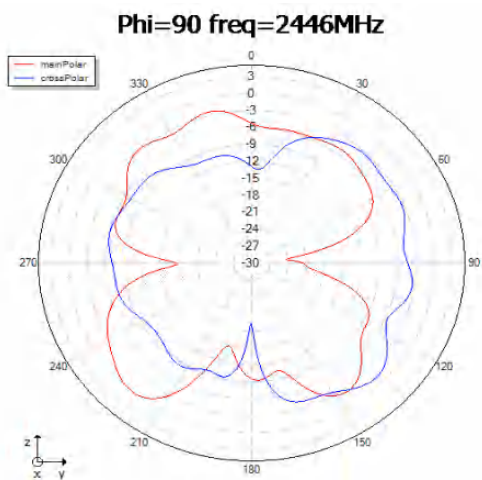
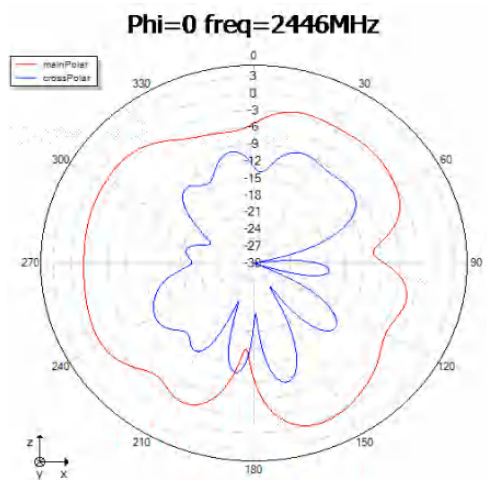
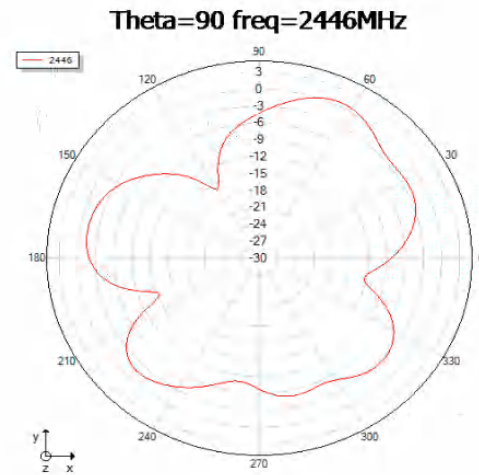
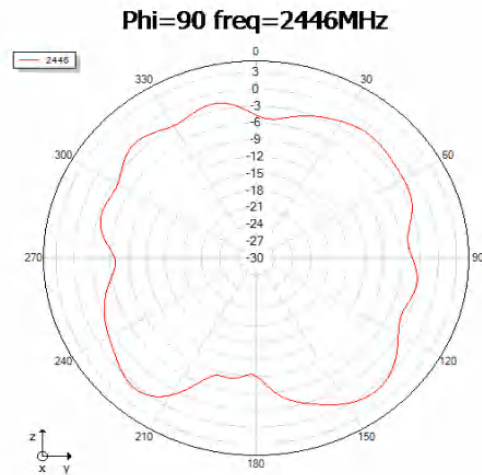
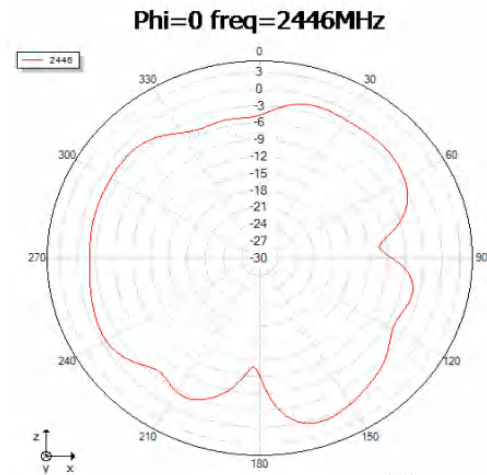
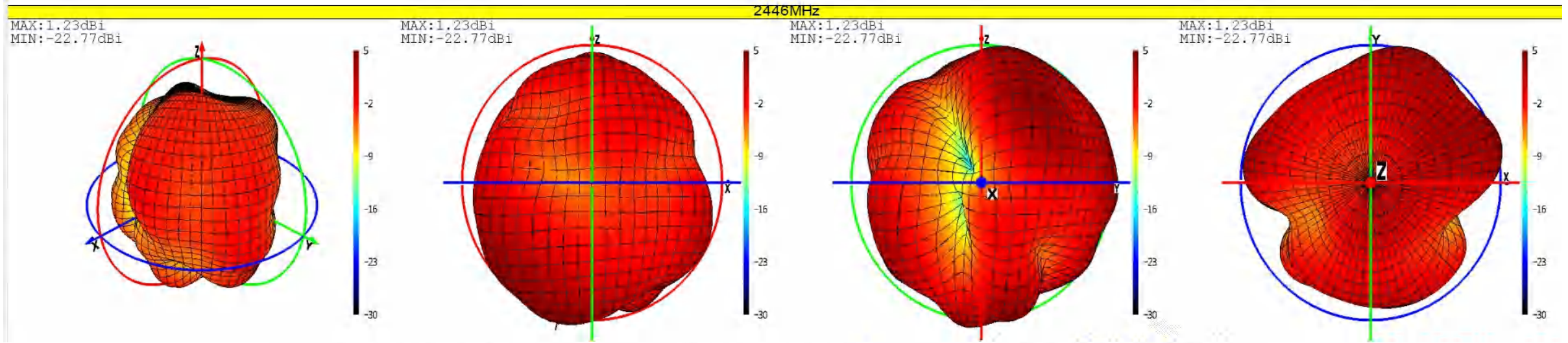
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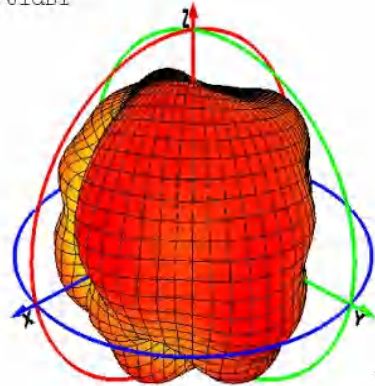


Antenna apple diagram and pattern

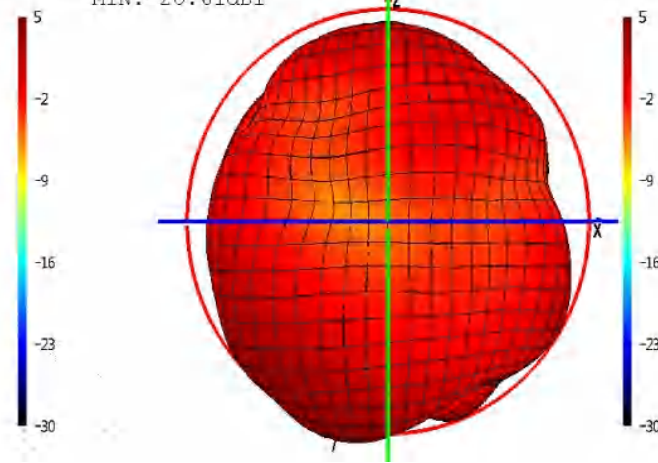


Antenna apple diagram and pattern

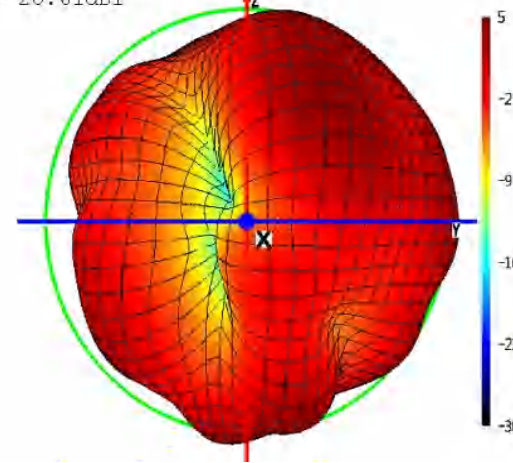
MAX:1.37dBi
MIN:-20.61dBi



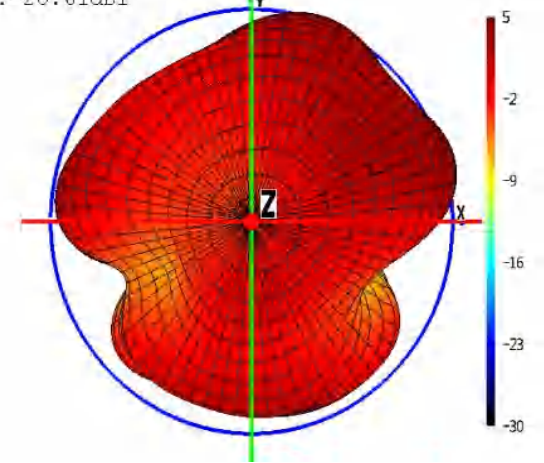
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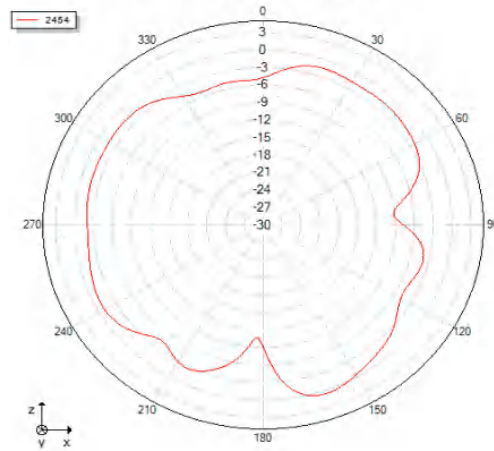
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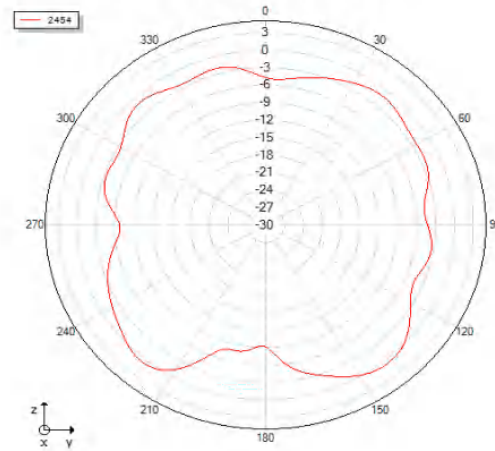
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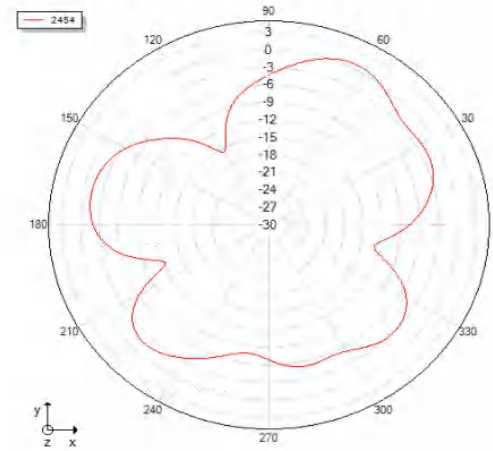
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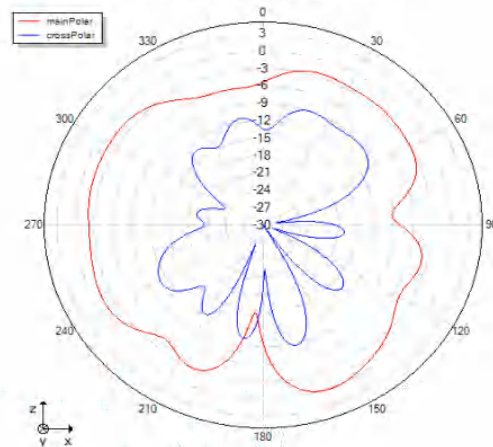
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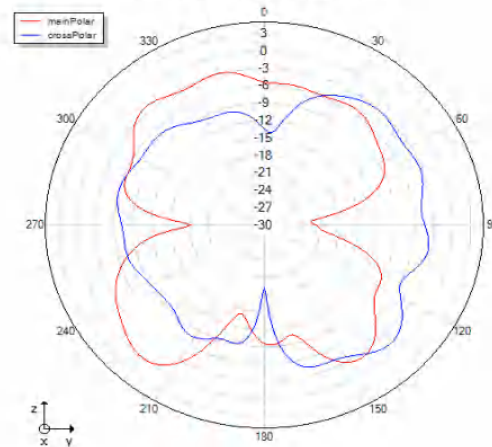
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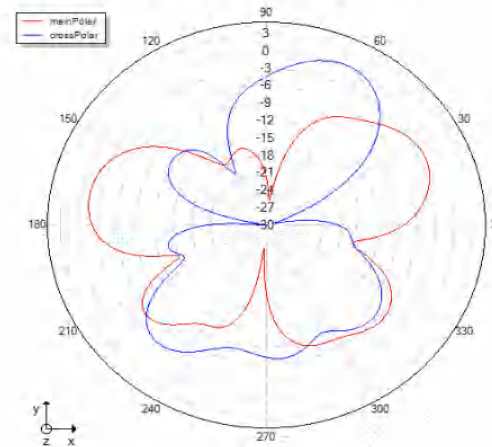
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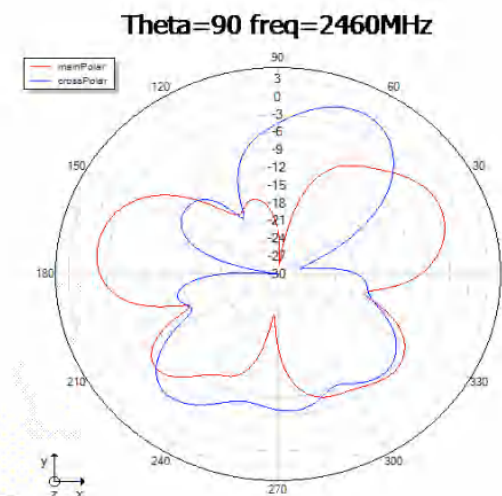
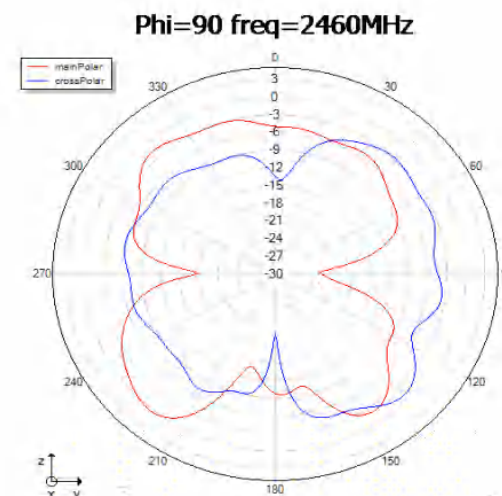
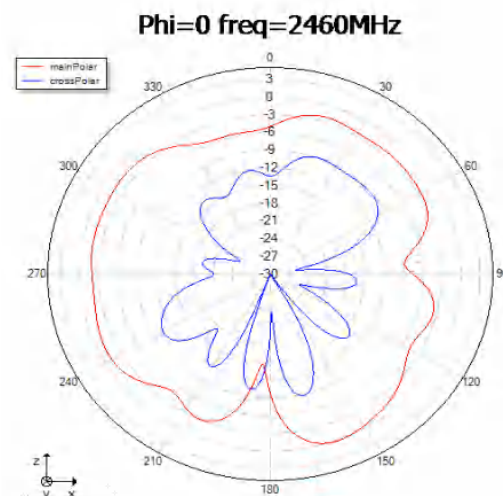
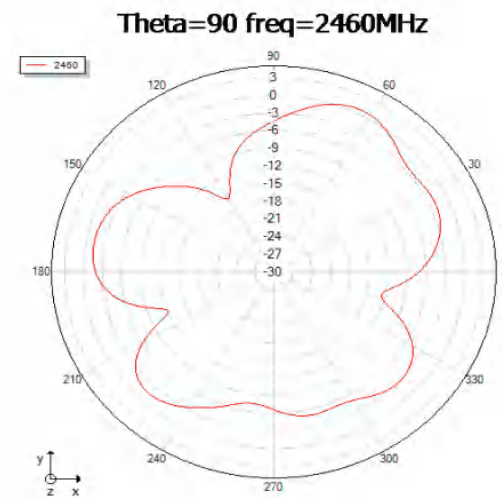
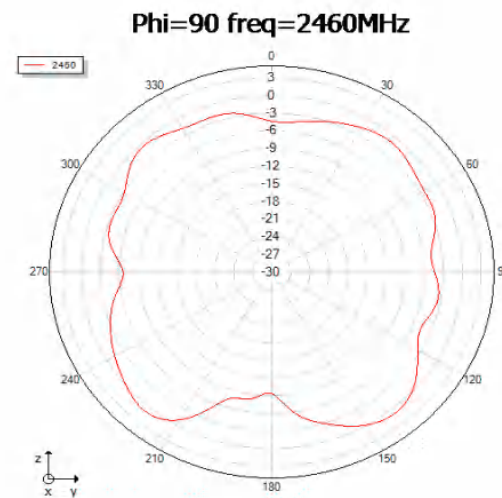
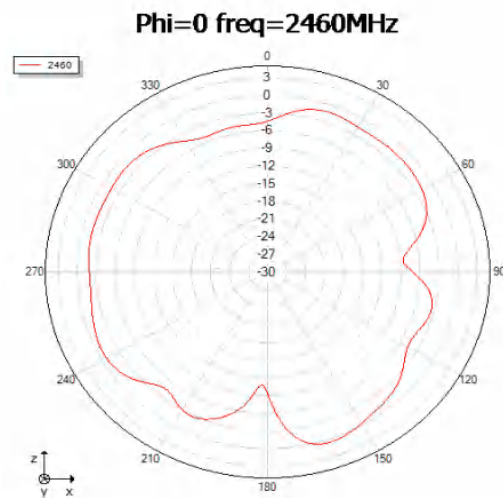
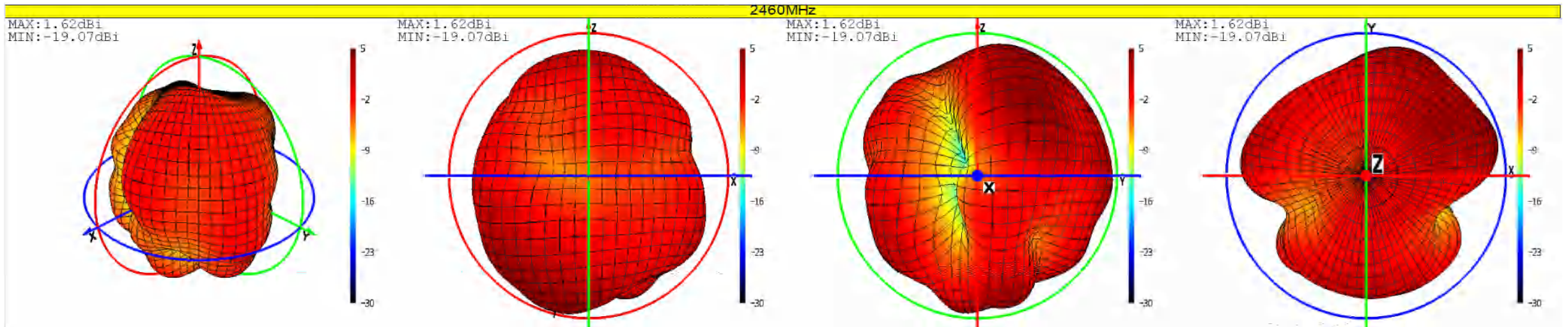
Phi=90 freq=2454MHz



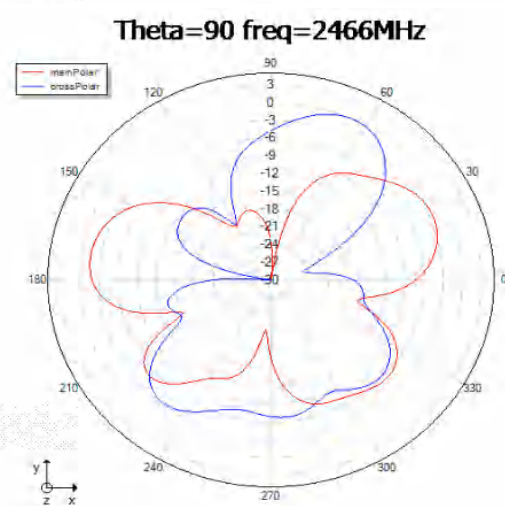
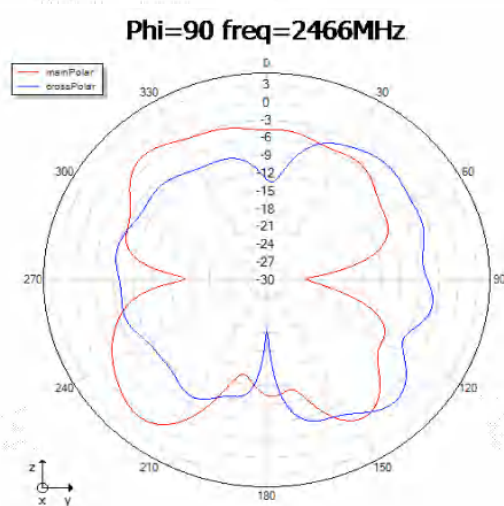
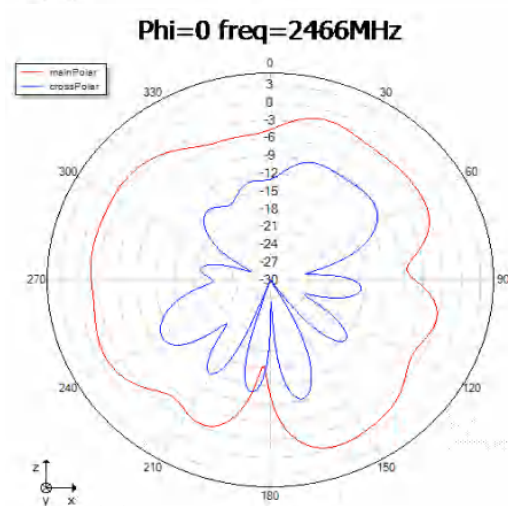
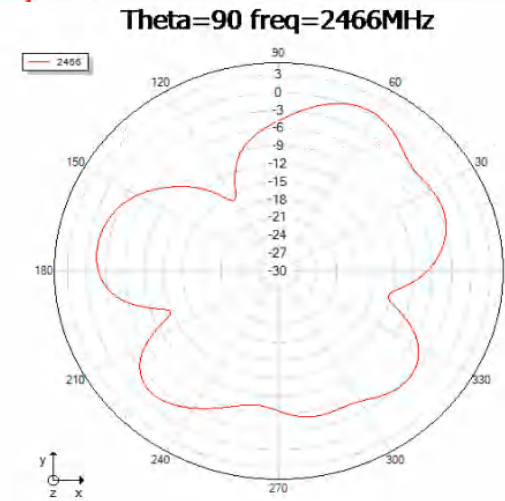
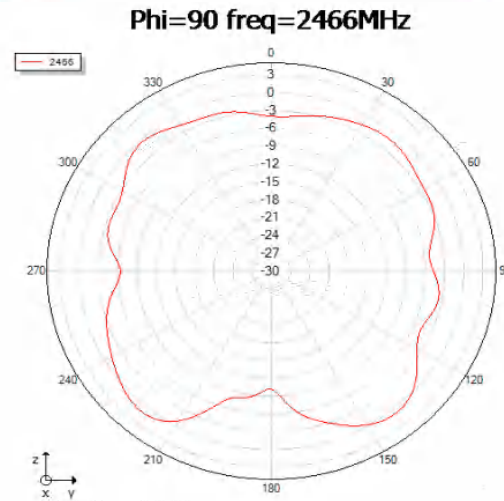
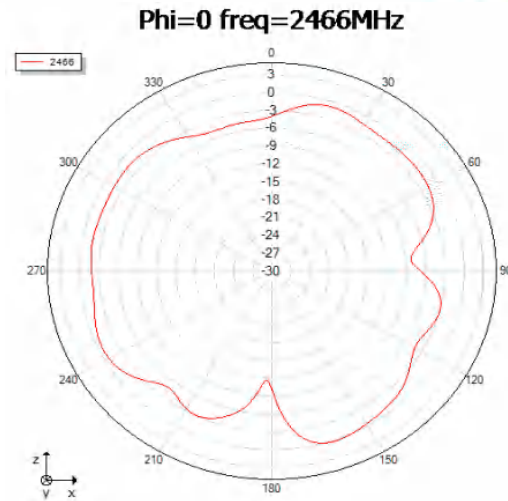
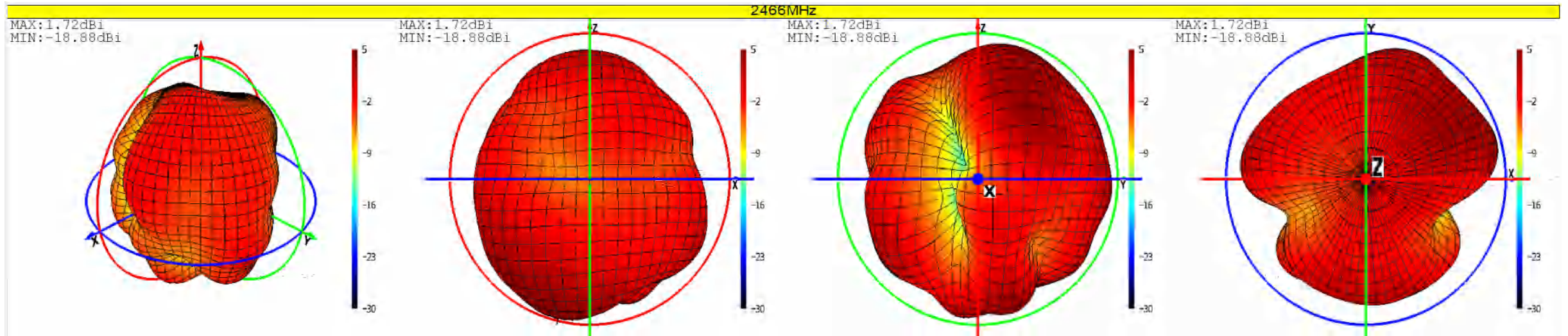
Theta=90 freq=2454MHz



Antenna apple diagram and pattern

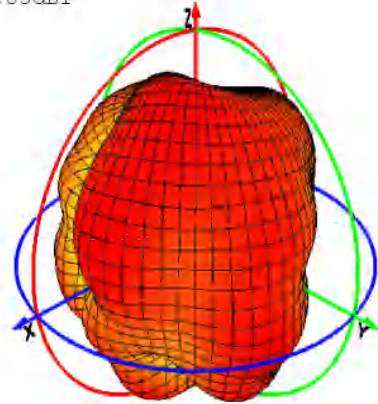


Antenna apple diagram and pattern

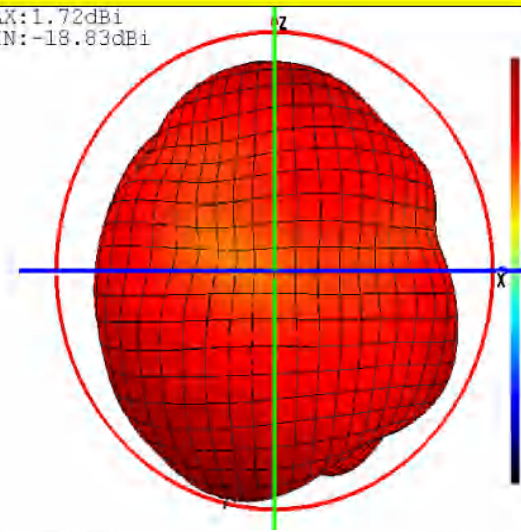


Antenna apple diagram and pattern

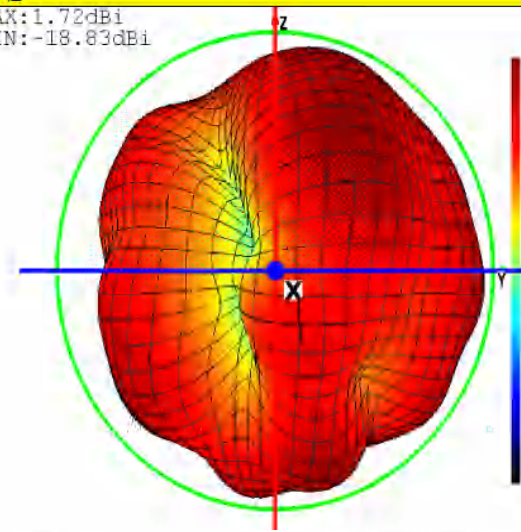
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MIN:-18.83dBi



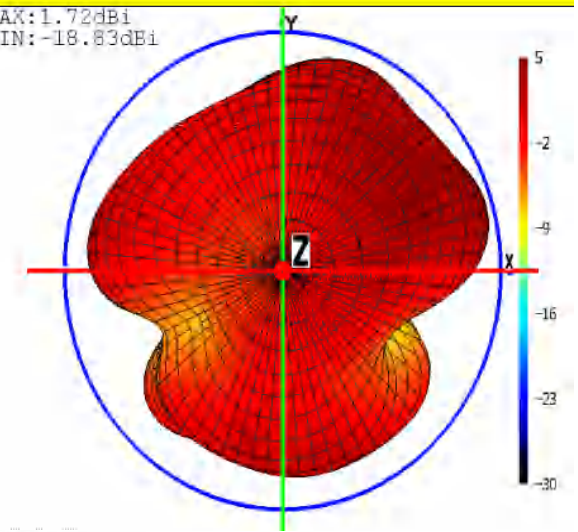
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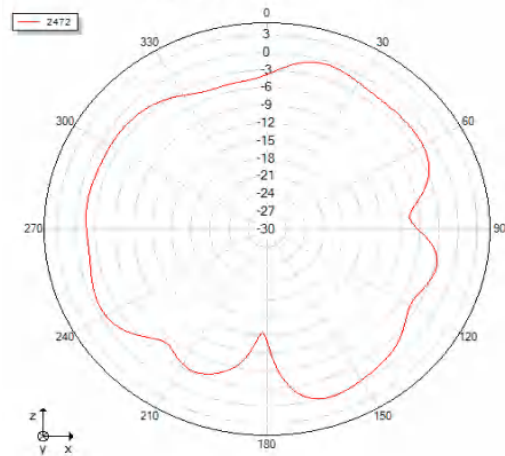
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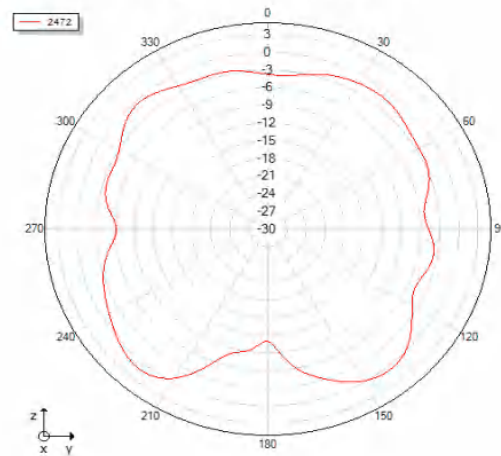
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MIN:-18.83dBi



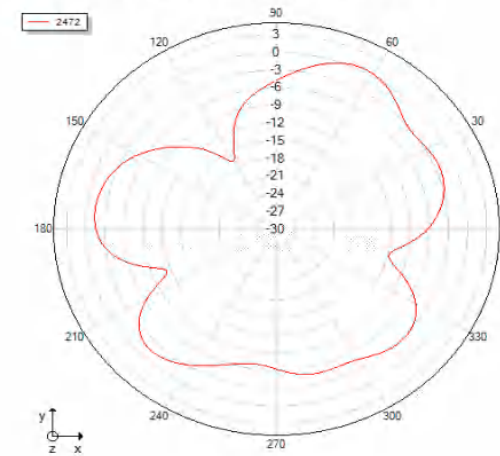
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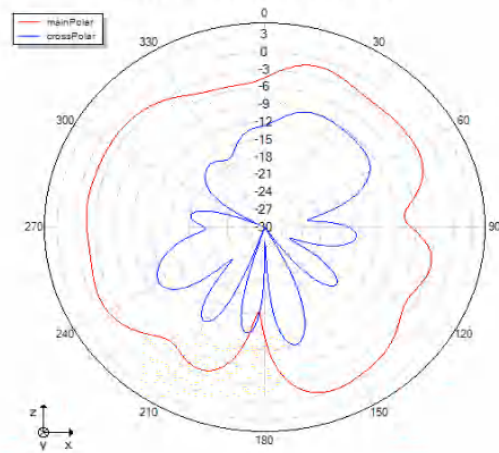
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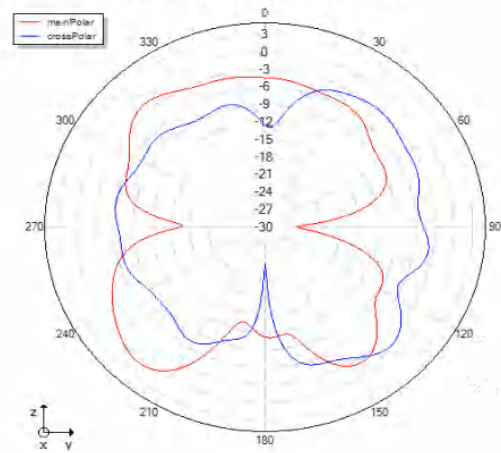
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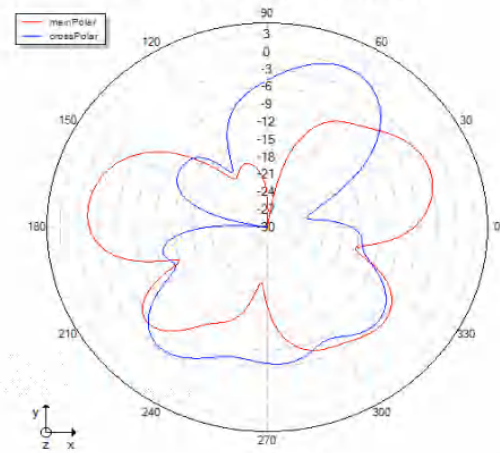
Phi=0 freq=2472MHz



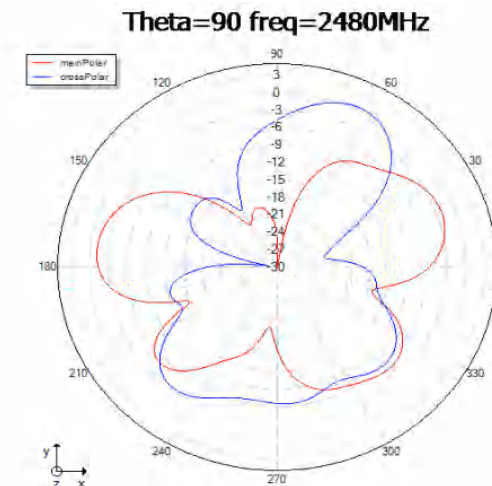
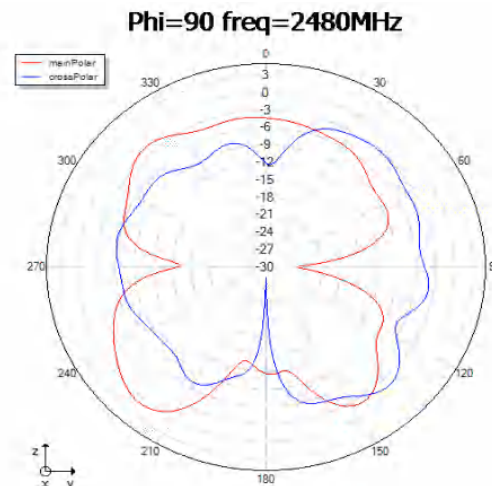
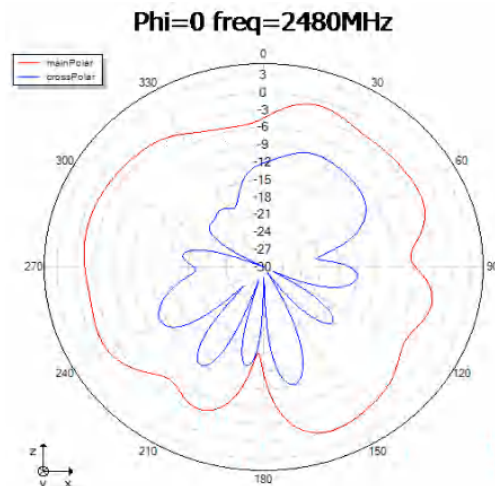
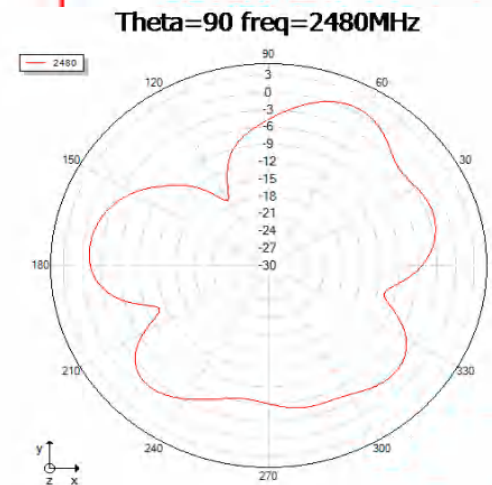
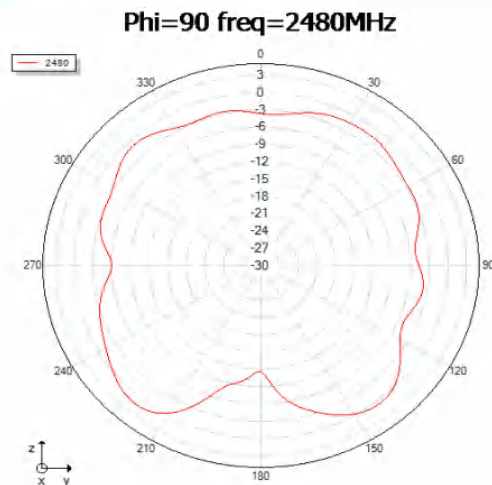
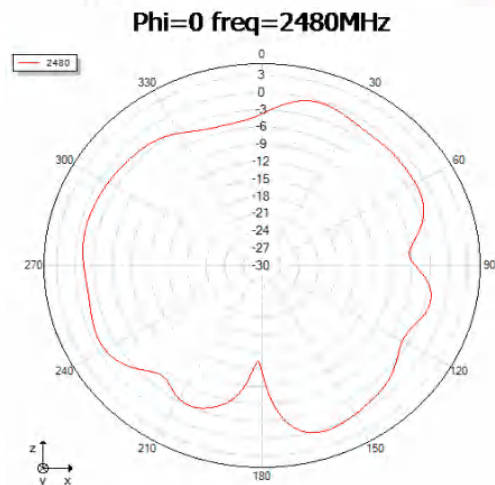
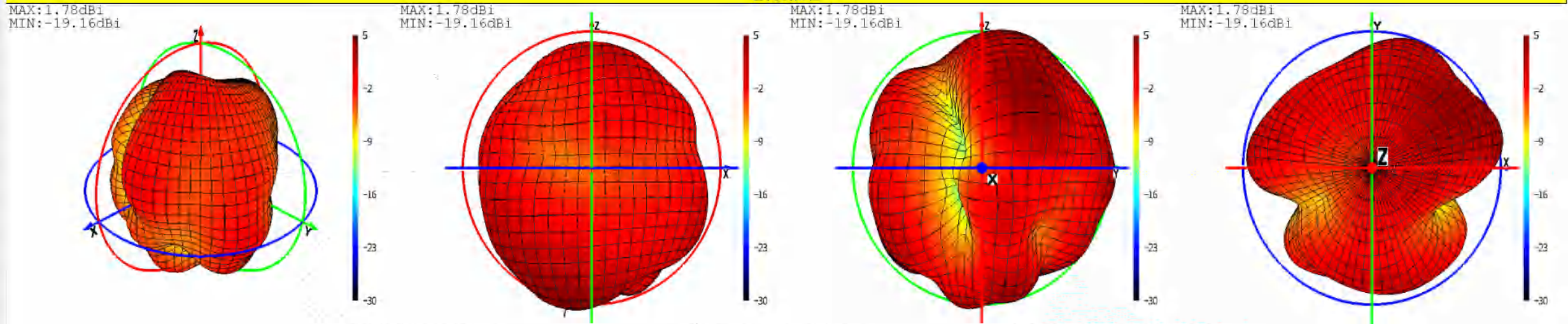
Phi=90 freq=2472MHz



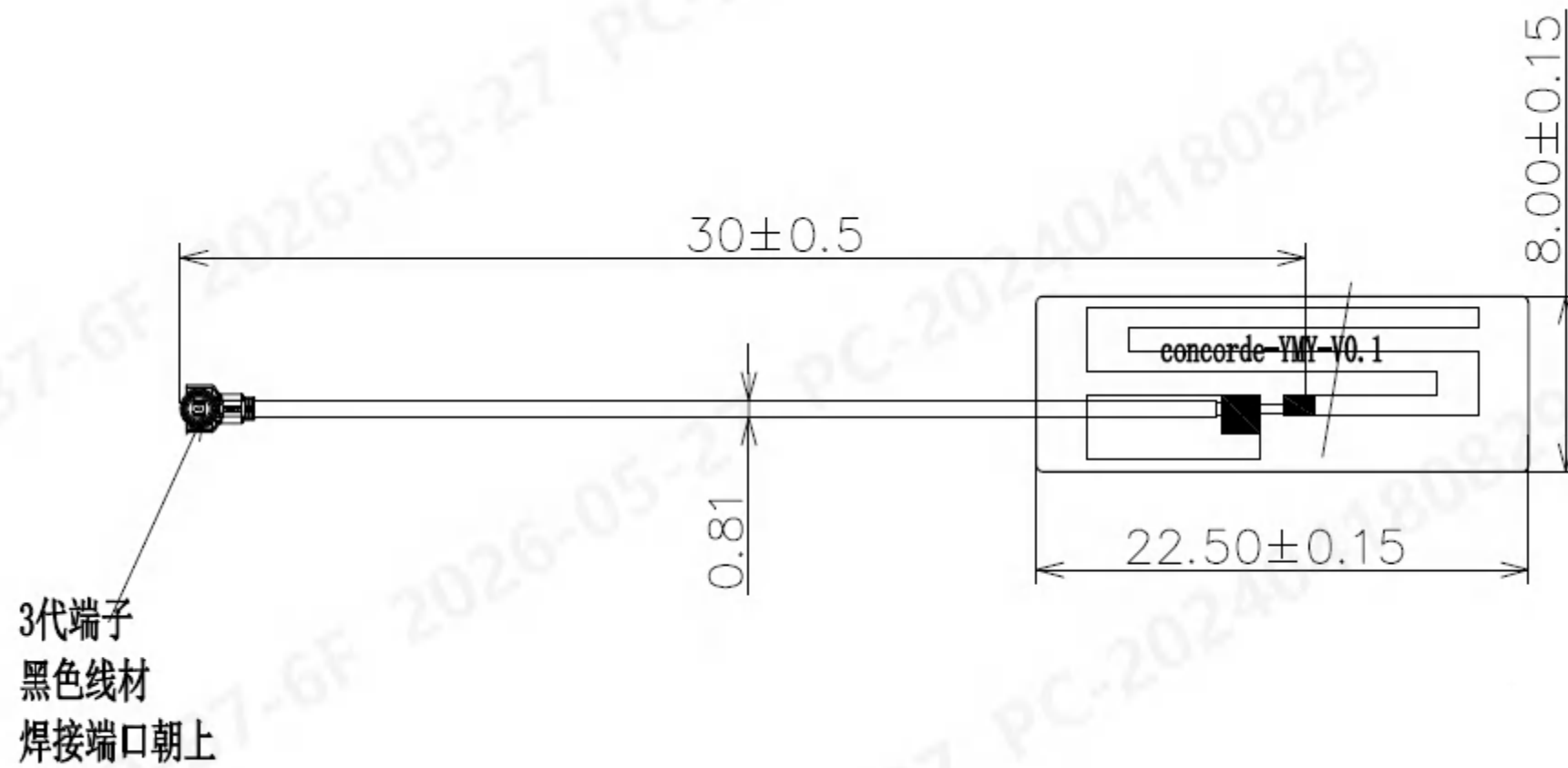
Theta=90 freq=2472MHz



Antenna apple diagram and pattern



antenna size



Additional notes

- 📶 Please double-check whether the matching circuitry mentioned in the report has been modified and whether environmental treatment has been introduced, which will directly affect the antenna performance.
- 📶 The parameters provided in this report are only the parameters given by the customer to our company's commissioning prototype, and do not represent the final mass production status of your company's final project.
- 📶 If your company has the latest trial production, or updated status (replacement of materials, update software, change of environmental treatment, etc.) of the prototype, please submit it to our company for verification as soon as possible to confirm whether the antenna performance is affected.
- 📶 If your company needs to send it to a third party for re-testing or to the customer for testing, please be sure to hand over the machine to our company for testing and confirmation, because the consistency of the motherboard, the consistency of the assembly, and the difference in antenna assembly and other factors may lead to the deviation of antenna parameters.