

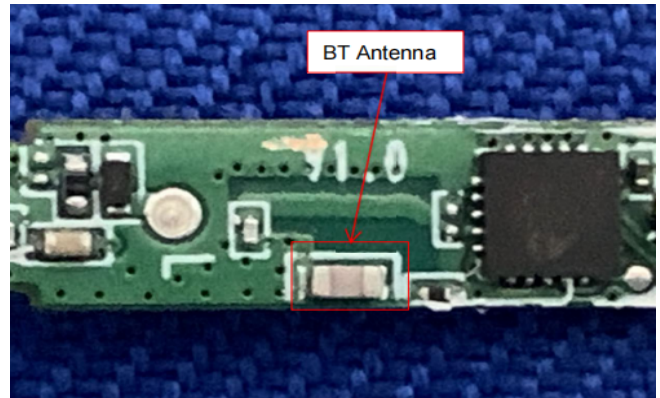
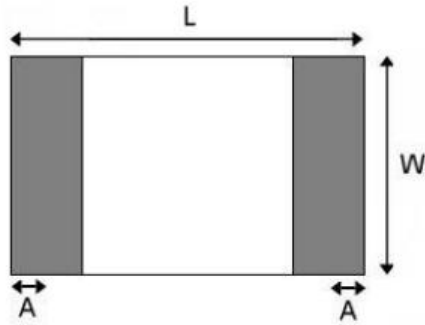
Sudio C8 Antenna report

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① Antenna specifications

(1) Antenna model: PBX1608MA05

(2) Antenna size:

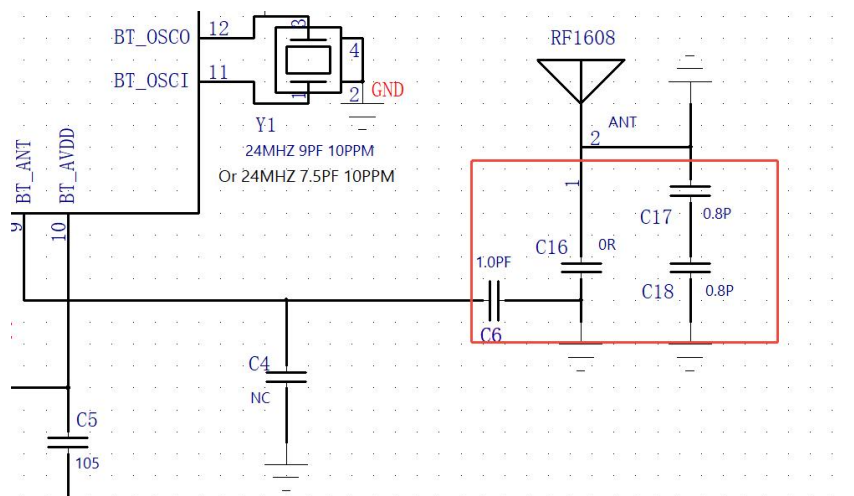


L	W	H	A
1.6 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.3 ± 0.1

(3) Antenna manufacturer: SHENZHEN PENG BAN XING YE TECHNOLOGY CO.,LTD
Address: B804, Heide Building, No.470 Heide 2nd Road, Xiangnan Community, Nanshan Street, Nanshan District, Shenzhen

(4) Address of antenna manufacturer: Room 412, Building 7, Yungu Phase II, No. 2, Pingshan Road, Taoyuan Street, Nanshan District, Shenzhen

(5) Antenna matching circuit:



②Antenna Test Report

(1) Passive data

Cover

Maxsign 100 Test Report

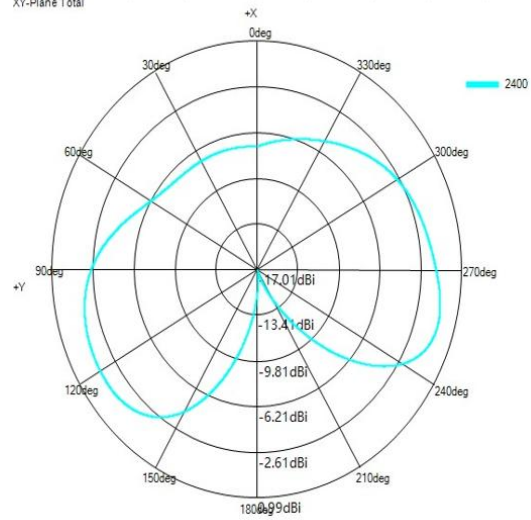
a. Summary Report

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	0.977854654	-3.94210936	40.34493908
2410	0.984044913	-4.001851205	39.79375113
2420	0.876190428	-4.153456561	38.42858062
2430	0.885142534	-4.232163756	37.73841226
2440	0.927207264	-4.182505697	38.17239686
2450	0.782019572	-4.288428423	37.25264877
2460	0.502360542	-4.526773802	35.26327303
2470	0.506572101	-4.48951084	35.56713768
2480	0.458274375	-4.452380205	35.87252769
2490	0.299157568	-4.566163566	34.94488724
2500	0.109372683	-4.58789367	34.77047575

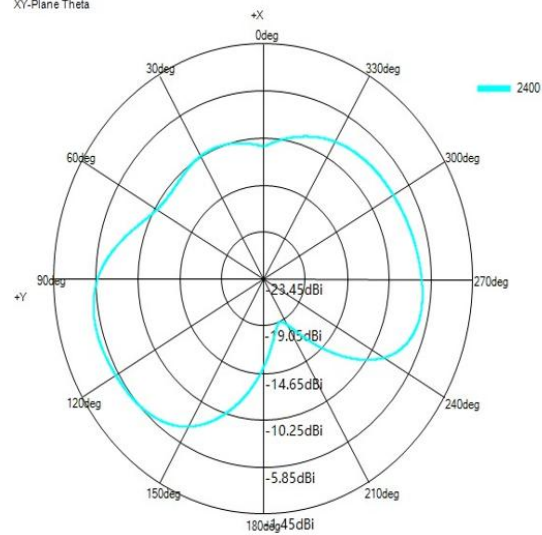
b. 2D Plot

1) 2400MHz

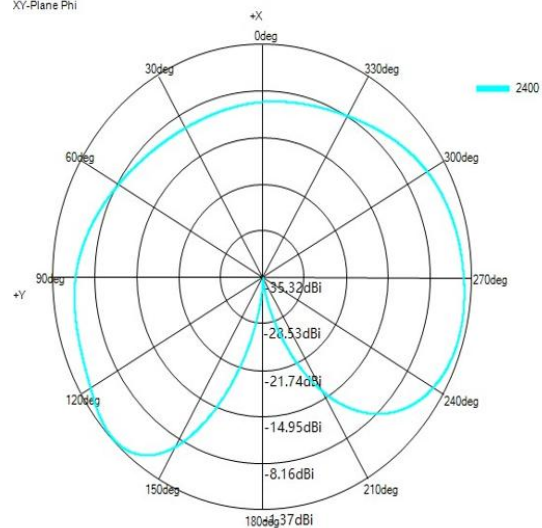
Freq (MHz) 2400 XY-Plane Max. -1.0327 Ave. -4.1282 Min. -15.24
XY-Plane Total



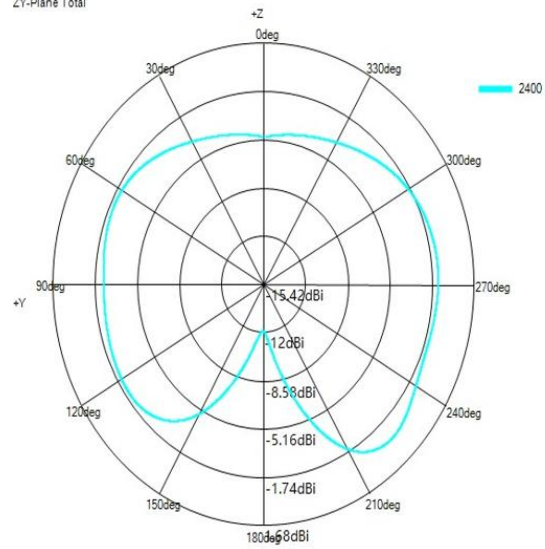
Freq (MHz) 2400 XY-Plane Max. -5.4544 Ave. -8.5367 Min. -18.545
XY-Plane Theta



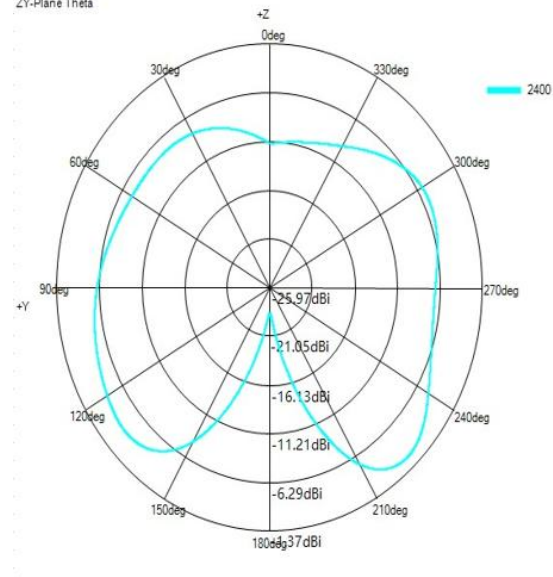
Freq (MHz) 2400 XY-Plane Max. -2.6704 Ave. -6.0825 Min. -35.006
XY-Plane Phi



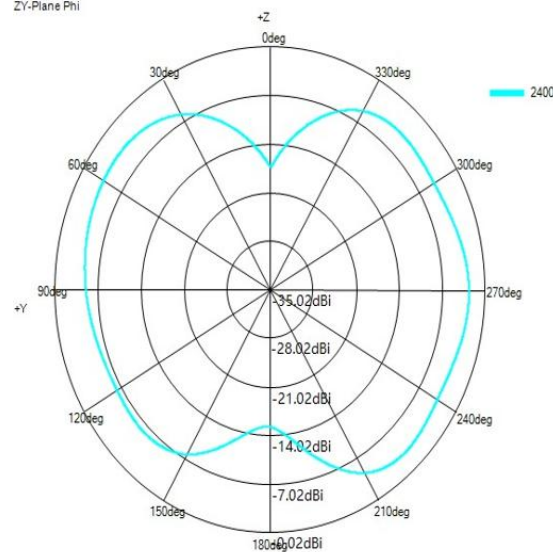
Freq(MHz) 2400 ZY-Plane Max. -1.1645 Ave. -2.1419 Min. -12.115
ZY-Plane Total



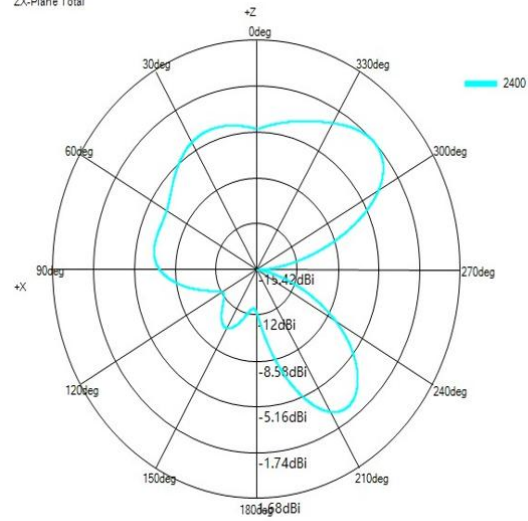
Freq(MHz) 2400 ZY-Plane Max. -4.173 Ave. -6.1298 Min. -23.436
ZY-Plane Theta



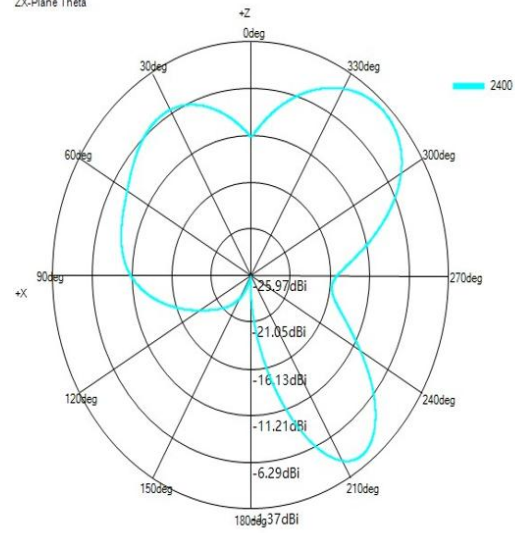
Freq(MHz) 2400 ZY-Plane Max. -2.6704 Ave. -4.3548 Min. -17.299
ZY-Plane Phi



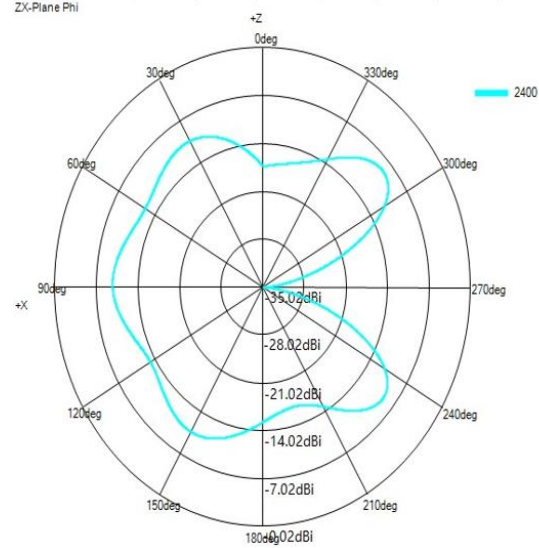
Freq(MHz) 2400 ZX-Plane Max. -2.7504 Ave. -5.6123 Min. -15.24
ZX-Plane Total

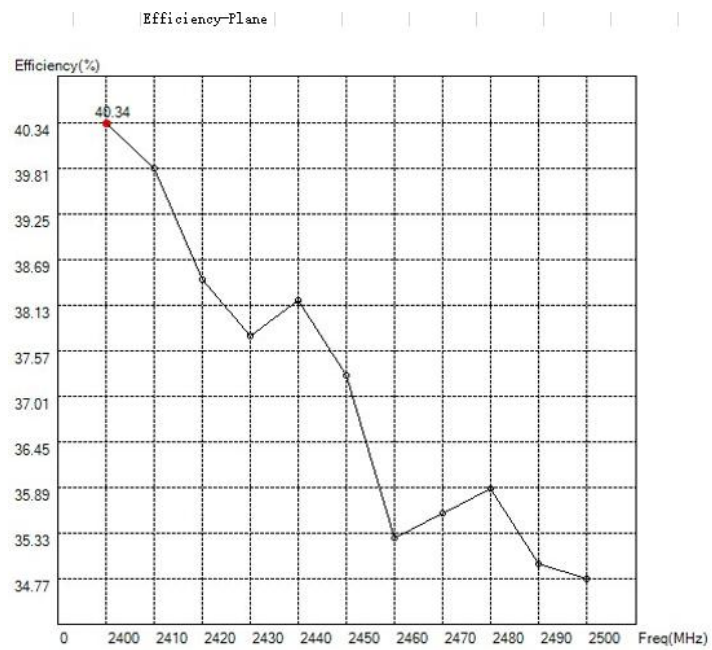
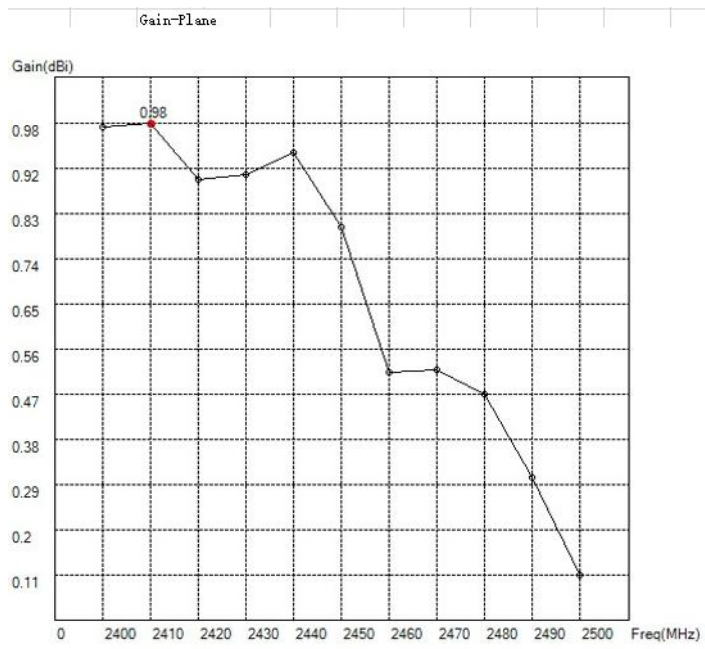


Freq(MHz) 2400 ZX-Plane Max. -3.1486 Ave. -6.6799 Min. -23.436
ZX-Plane Theta



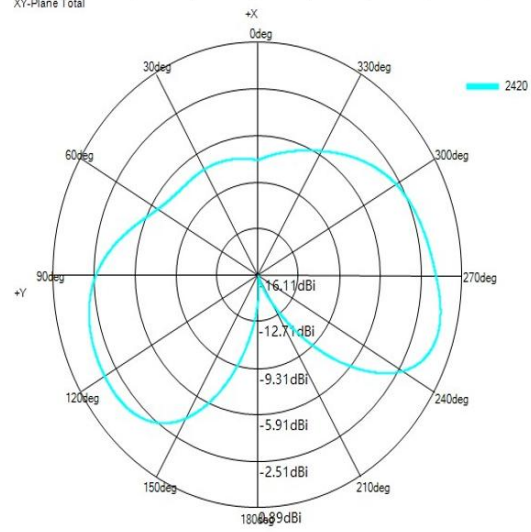
Freq(MHz) 2400 ZX-Plane Max. -9.6305 Ave. -12.229 Min. -35.006
ZX-Plane Phi



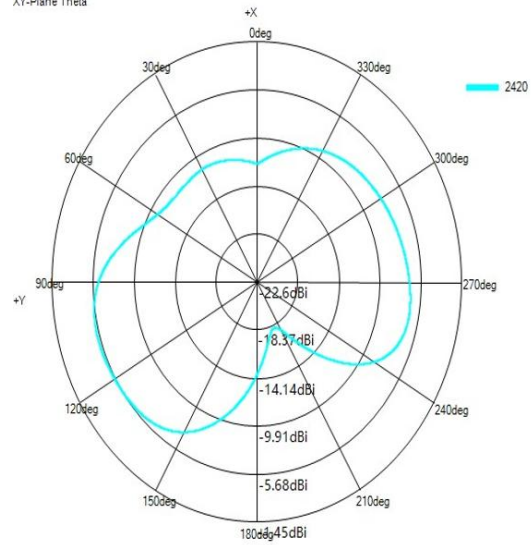


2) 2420MHz

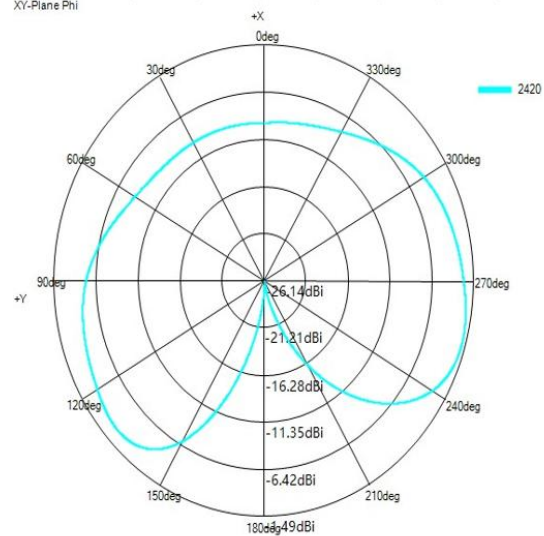
Freq (MHz) 2420 XY-Plane Max. -1.2734 Ave. -4.2458 Min. -14.226
XY-Plane Total

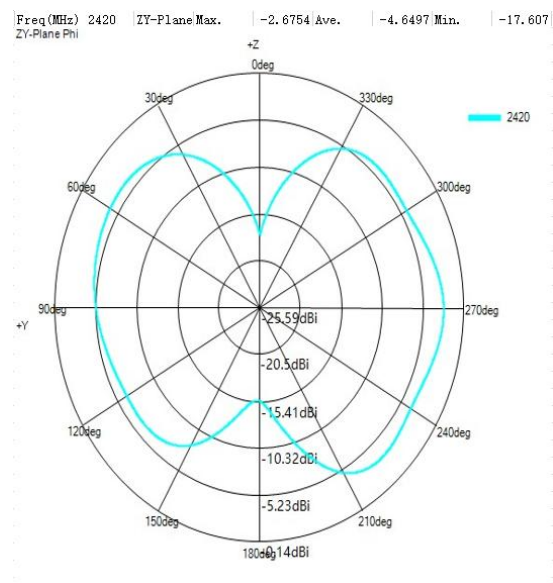
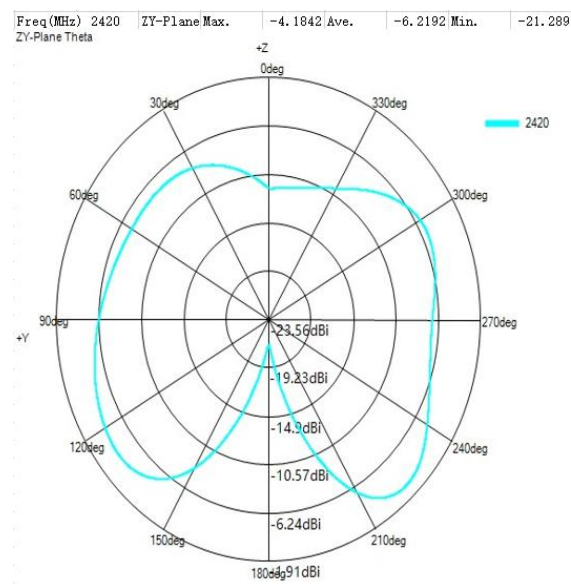
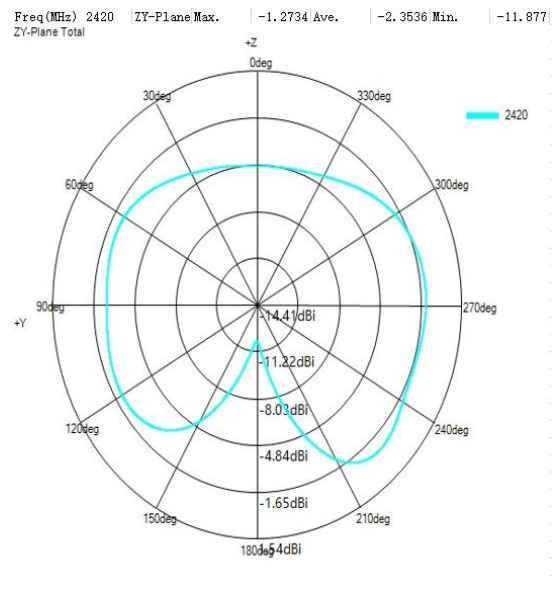


Freq (MHz) 2420 XY-Plane Max. -5.5417 Ave. -8.7044 Min. -17.722
XY-Plane Theta

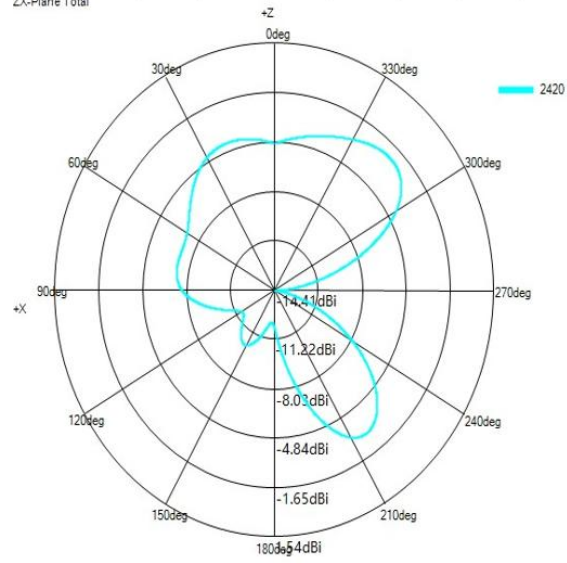


Freq (MHz) 2420 XY-Plane Max. -2.6754 Ave. -6.172 Min. -25.604
XY-Plane Phi

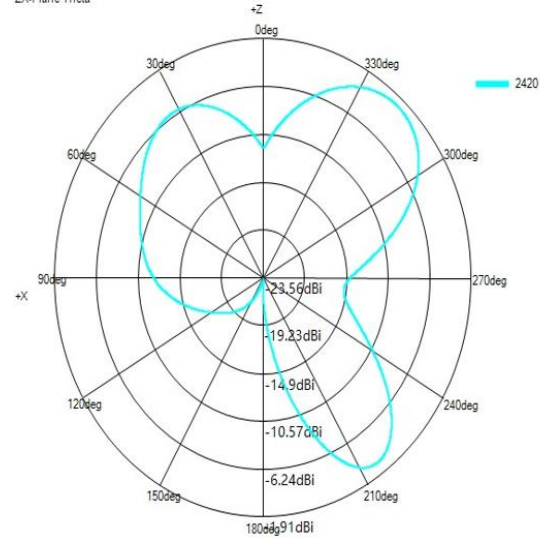




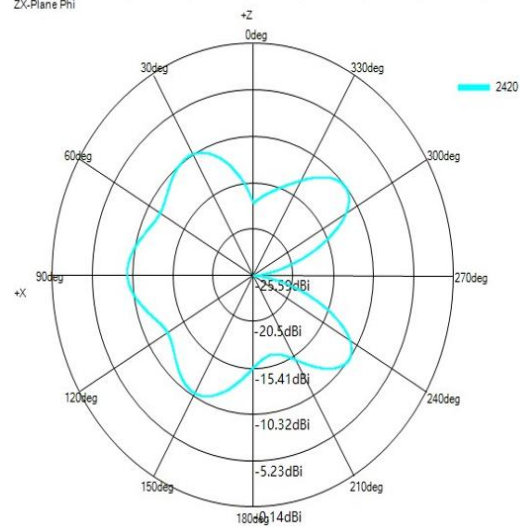
Freq (MHz)	2420	ZX-Plane Max.	-3.115 Ave.	-5.896 Min.	-14.226
ZX-Plane Total					

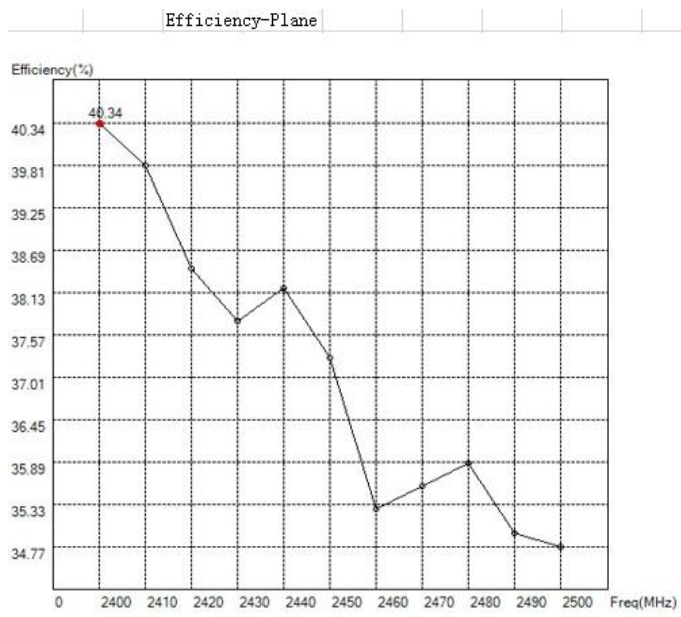
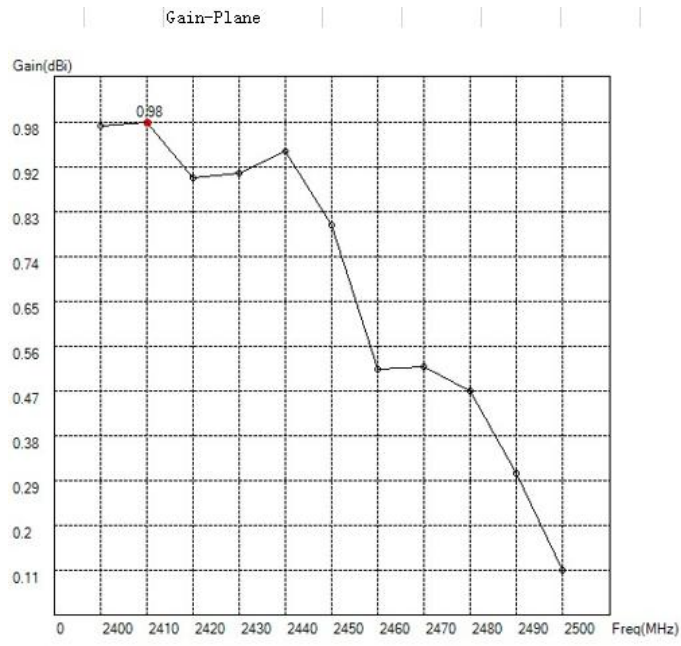


Freq (MHz)	2420	ZX-Plane Max.	-3.5294 Ave.	-7.0387 Min.	-21.289
ZX-Plane Theta					



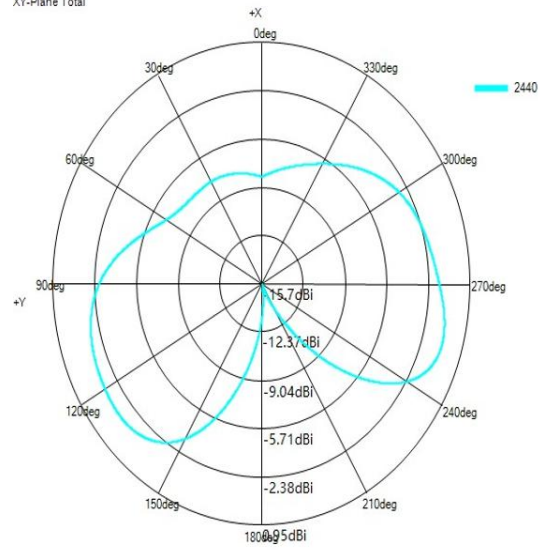
Freq (MHz)	2420	ZX-Plane Max.	-9.5673 Ave.	-12.253 Min.	-25.604
ZX-Plane Phi					



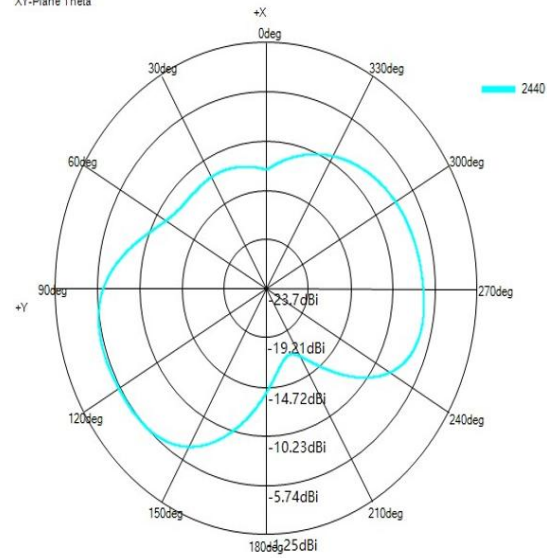


3) 2440MHz

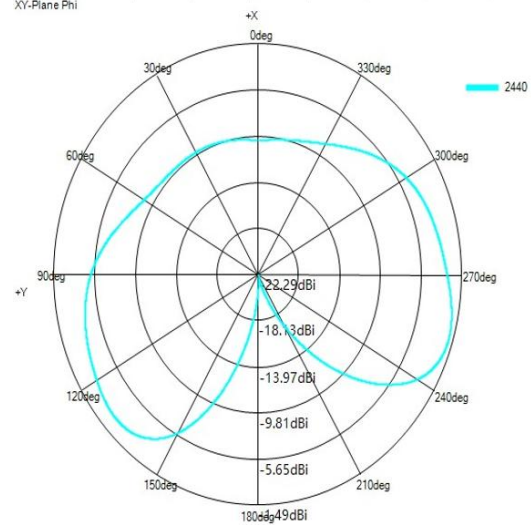
Freq(MHz) 2440 XY-PlaneMax. -1.197 Ave. -4.3299 Min. -13.742
XY-Plane Total



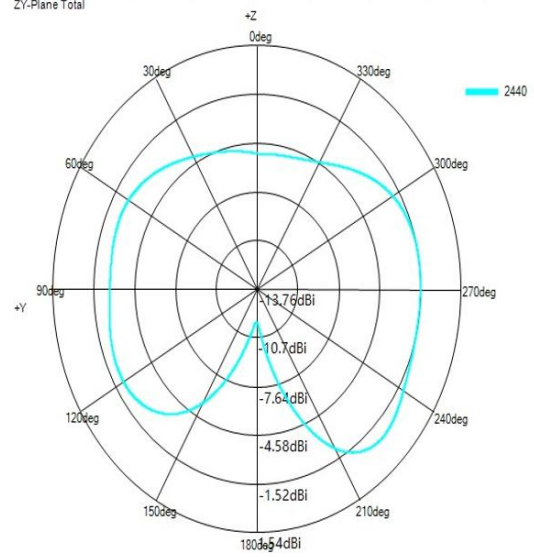
Freq(MHz) 2440 XY-PlaneMax. -5.4786 Ave. -8.782 Min. -16.589
XY-Plane Theta



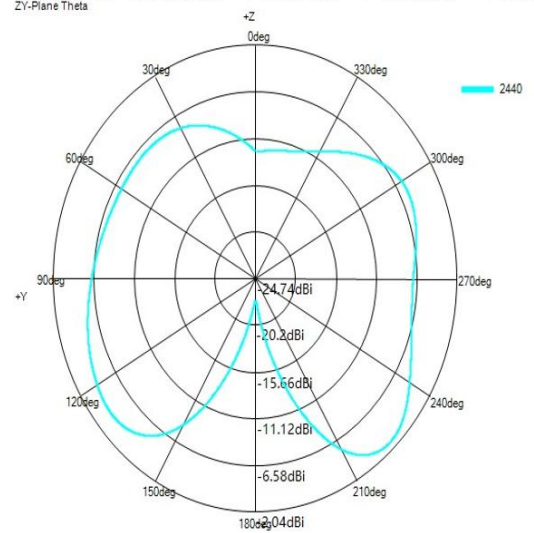
Freq(MHz) 2440 XY-PlaneMax. -2.9759 Ave. -6.2597 Min. -21.038
XY-Plane Phi



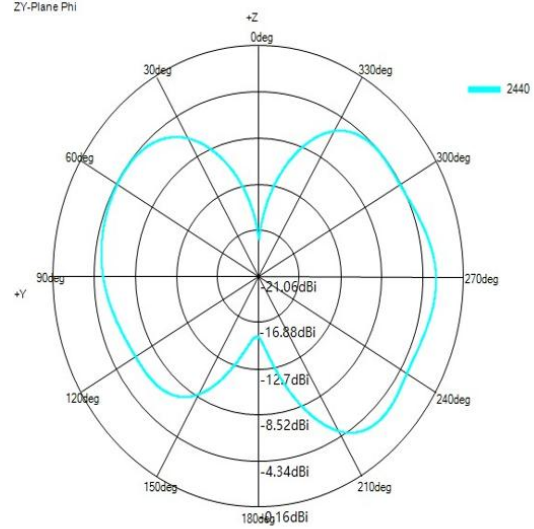
Freq(MHz) 2440 ZY-PlaneMax. -1.1048 Ave. -2.4088 Min. -11.6



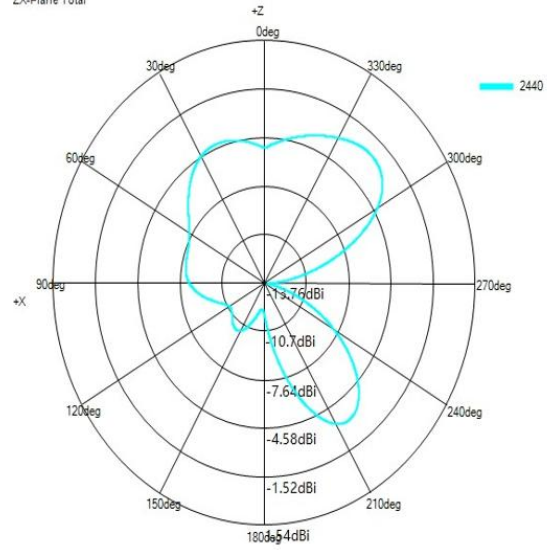
Freq(MHz) 2440 ZY-PlaneMax. -4.0937 Ave. -6.2043 Min. -22.621



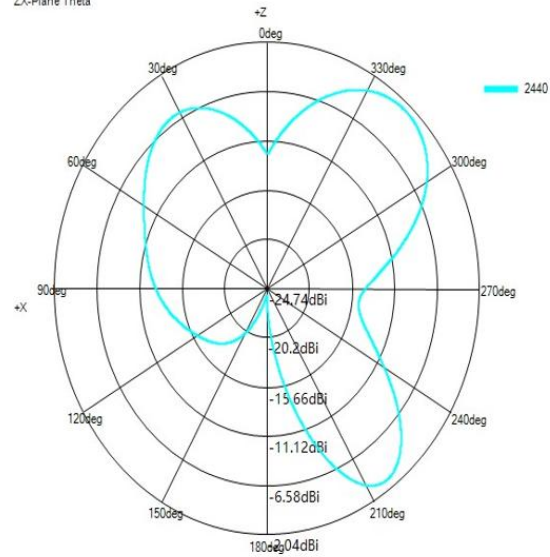
Freq(MHz) 2440 ZY-PlaneMax. -2.9759 Ave. -4.7544 Min. -17.693



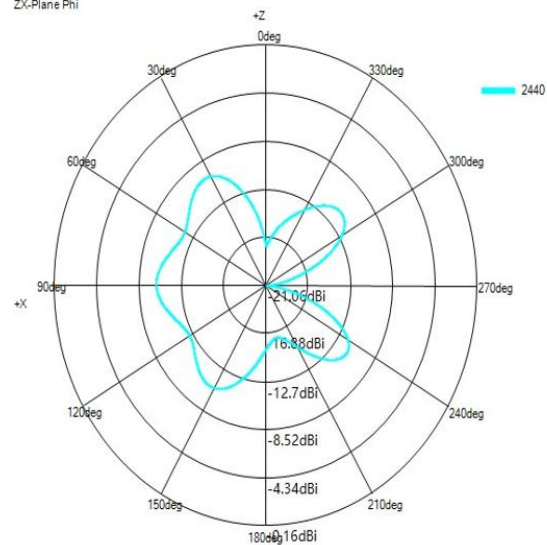
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ZX-Plane Total

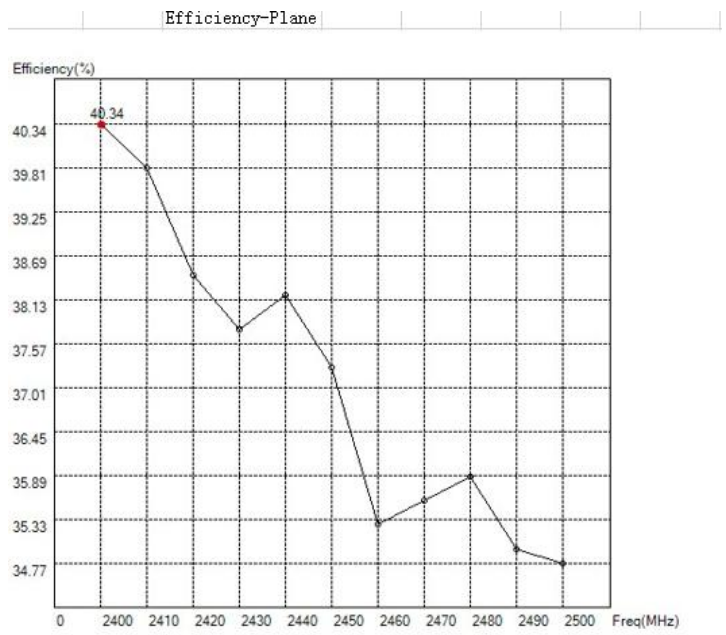
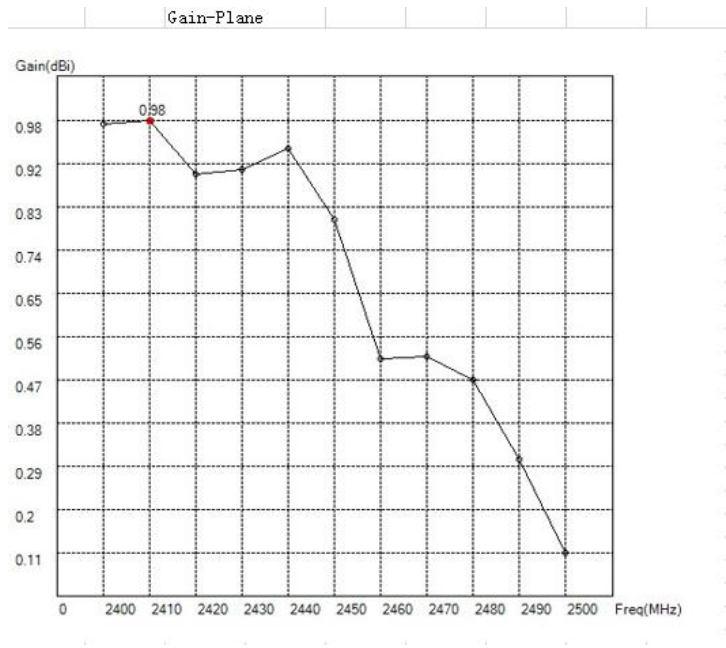


Freq(MHz) 2440 ZX-Plane Max. -3.5445 Ave. -7.1225 Min. -22.621
ZX-Plane Theta



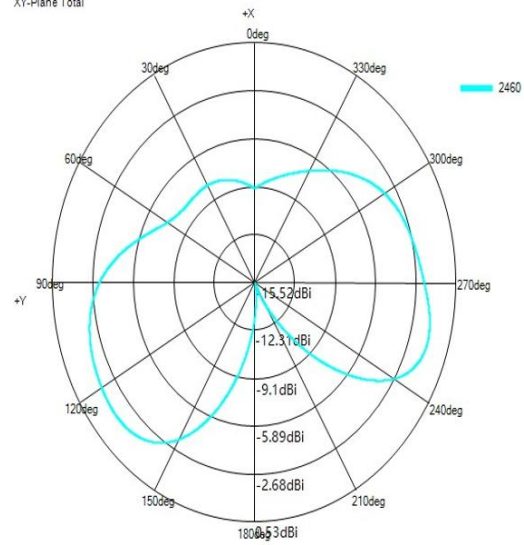
Freq(MHz) 2440 ZX-Plane Max. -10.038 Ave. -12.285 Min. -21.038
ZX-Plane Phi



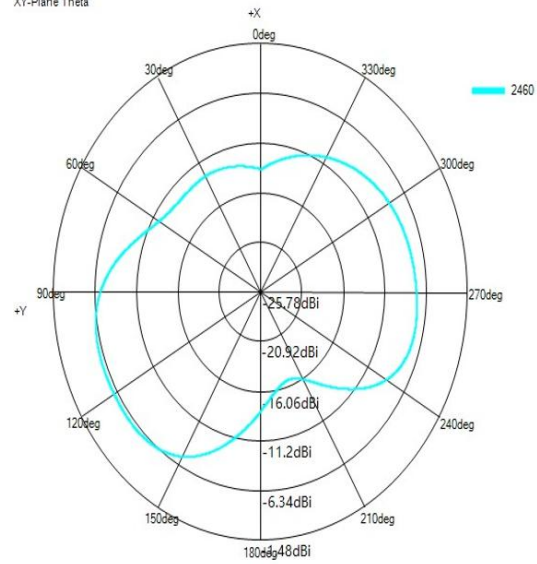


4) 2460MHz

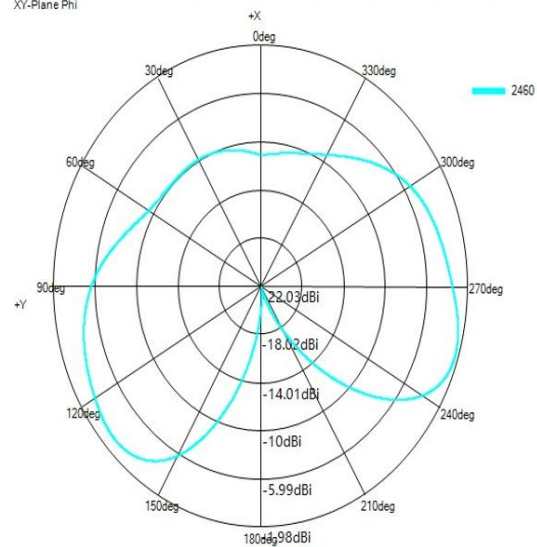
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XY-Plane Total



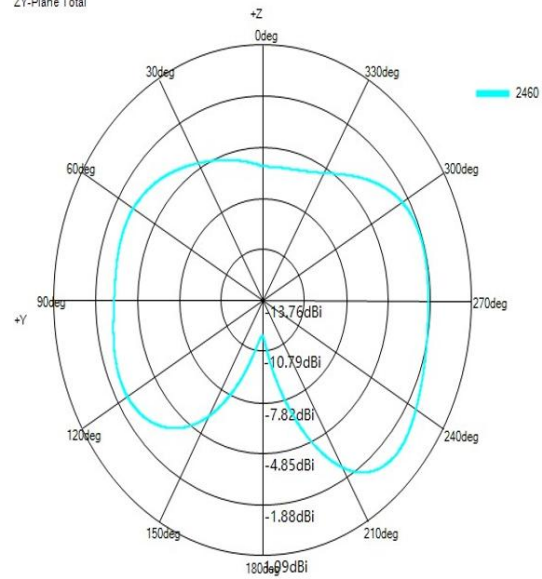
Freq(MHz) 2460 XY-PlaneMax. -5.8213 Ave. -9.2176 Min. -15.942
XY-Plane Theta



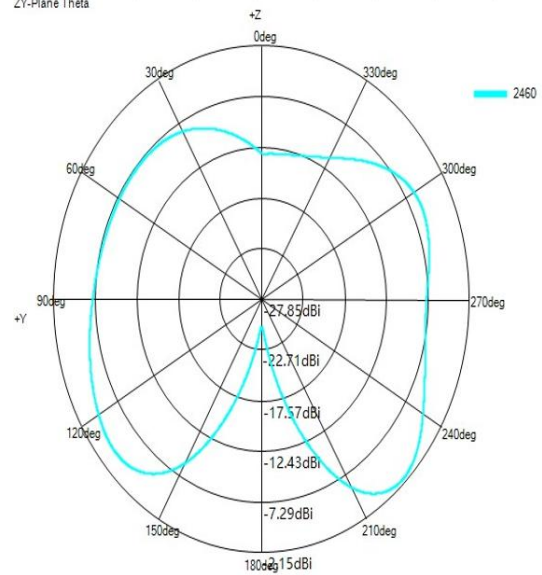
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XY-Plane Phi



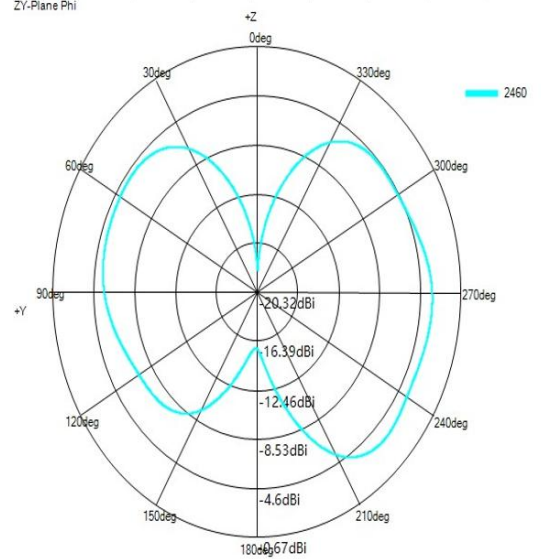
Freq(MHz) 2460 ZY-PlaneMax. -1.2023 Ave. -2.7964 Min. -11.613
ZY-Plane Total



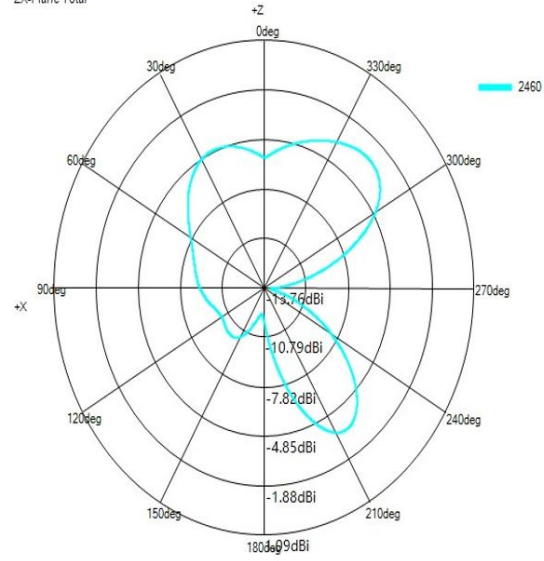
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ZY-Plane Theta



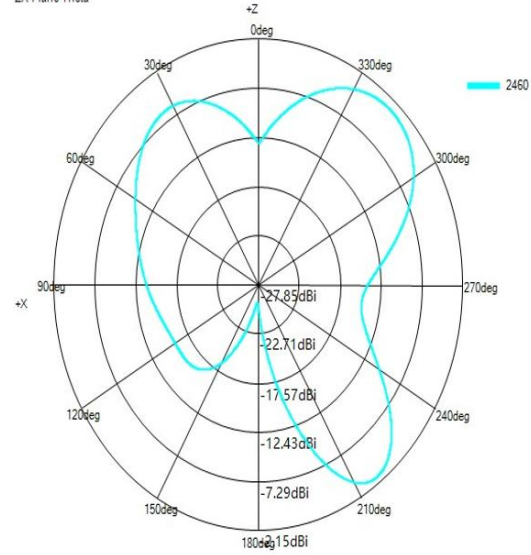
Freq(MHz) 2460 ZY-PlaneMax. -3.4706 Ave. -5.1709 Min. -18.557
ZY-Plane Phi



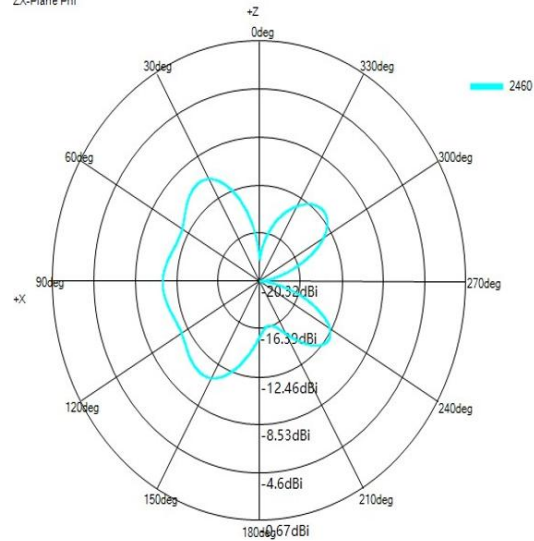
Freq(MHz)	2460	ZX-PlaneMax.	-3.6039 Ave.	-6.3115 Min.	-13.231
ZX-Plane Total					



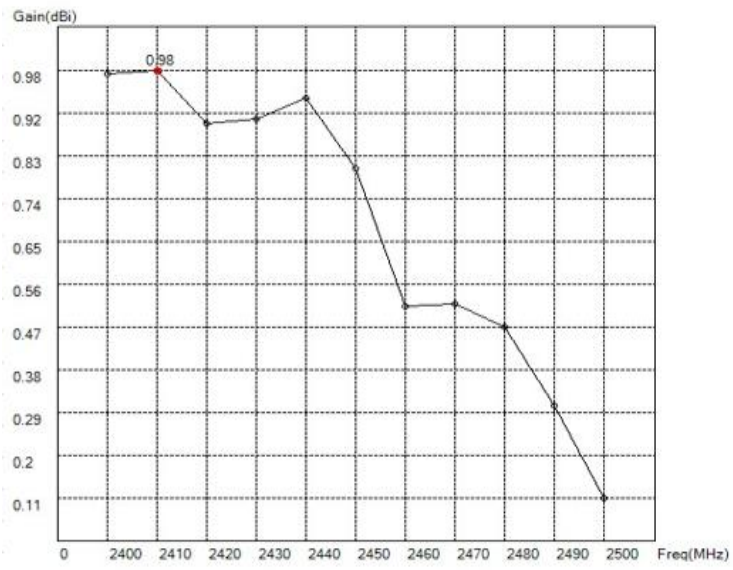
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ZX-Plane Theta					



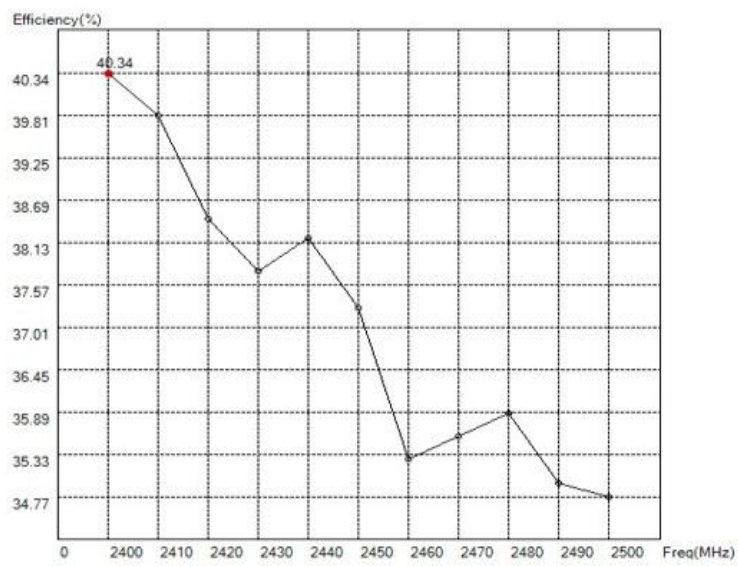
Freq(MHz)	2460	ZX-PlaneMax.	-10.623 Ave.	-12.677 Min.	-20.307
ZX-Plane Phi					



Gain-Plane

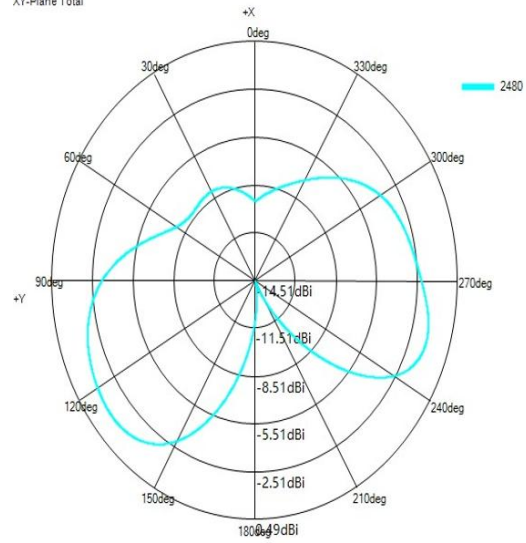


Efficiency-Plane

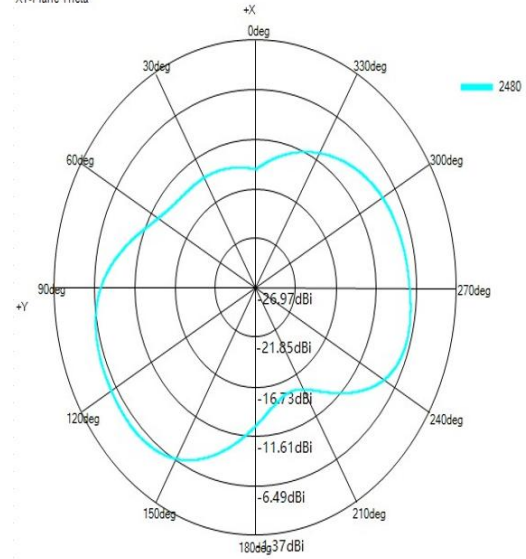


5) 2480MHz

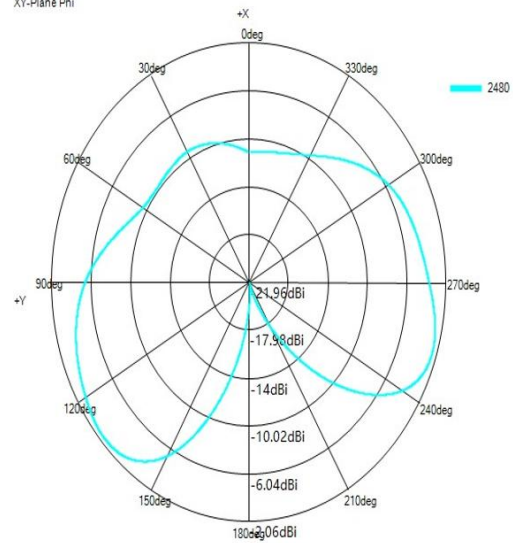
Freq(MHz) 2480 XY-PlaneMax. -1.0312 Ave. -4.6564 Min. -13.059
XY-Plane Total



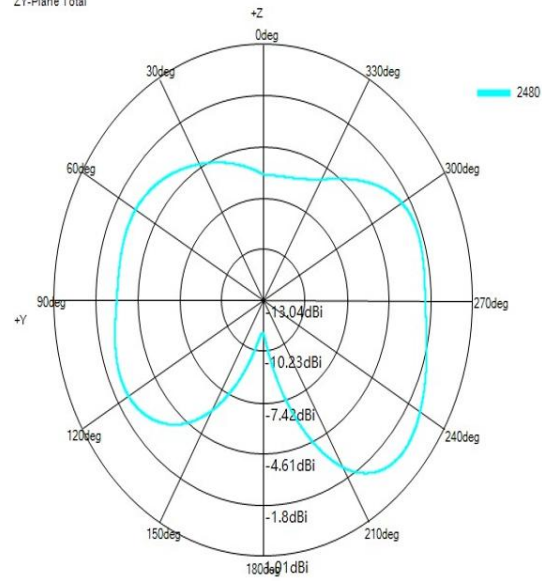
Freq(MHz) 2480 XY-PlaneMax. -5.6882 Ave. -9.1032 Min. -14.869
XY-Plane Theta



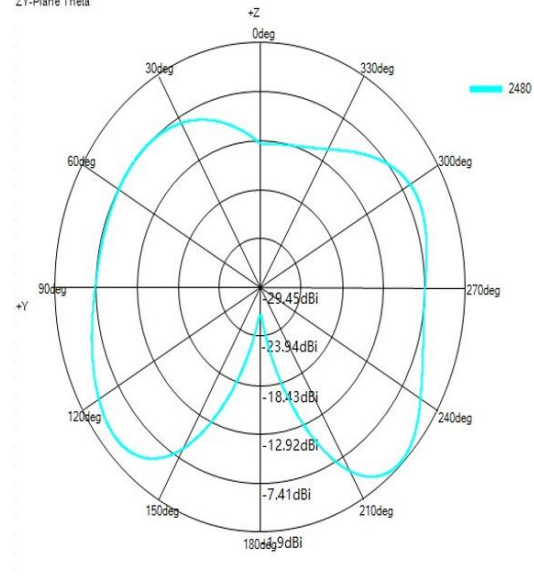
Freq(MHz) 2480 XY-PlaneMax. -2.8503 Ave. -6.589 Min. -20.214
XY-Plane Phi



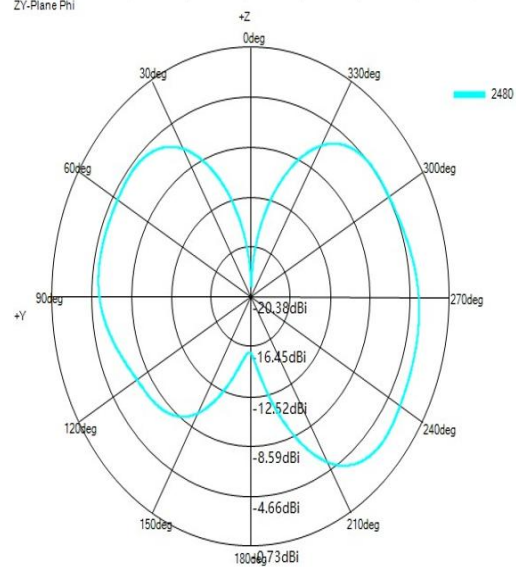
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ZY-Plane Total

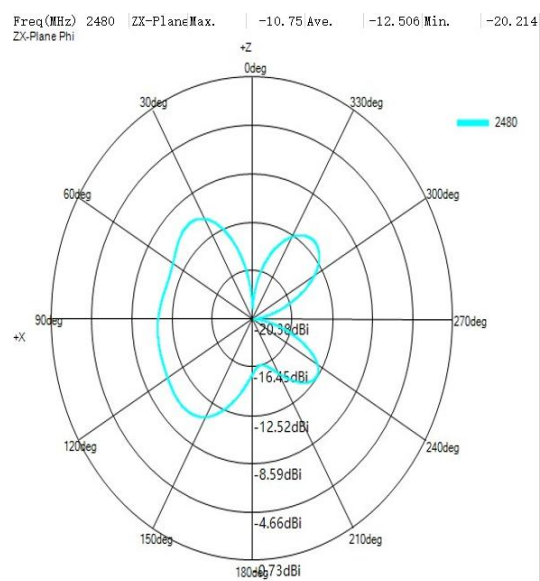
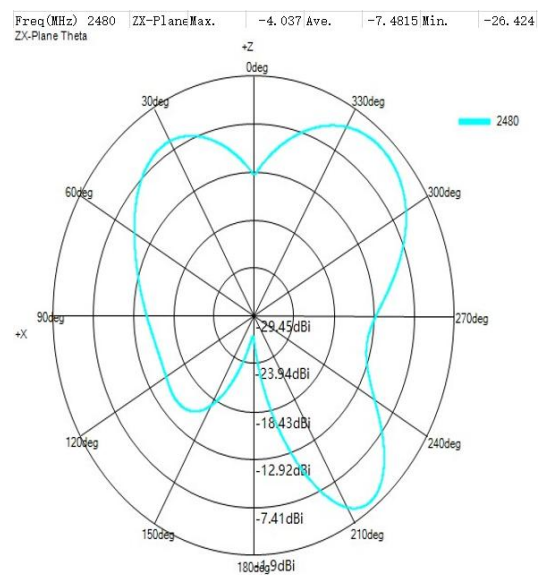
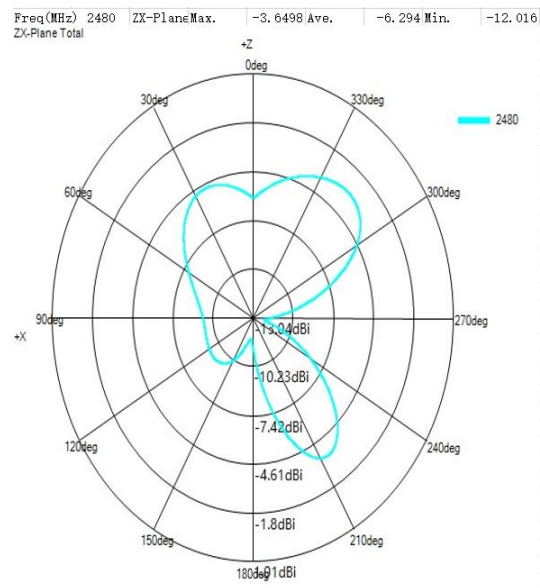


Freq(MHz) 2480 ZY-PlaneMax. -4.3007 Ave. -6.4803 Min. -26.424
ZY-Plane Theta

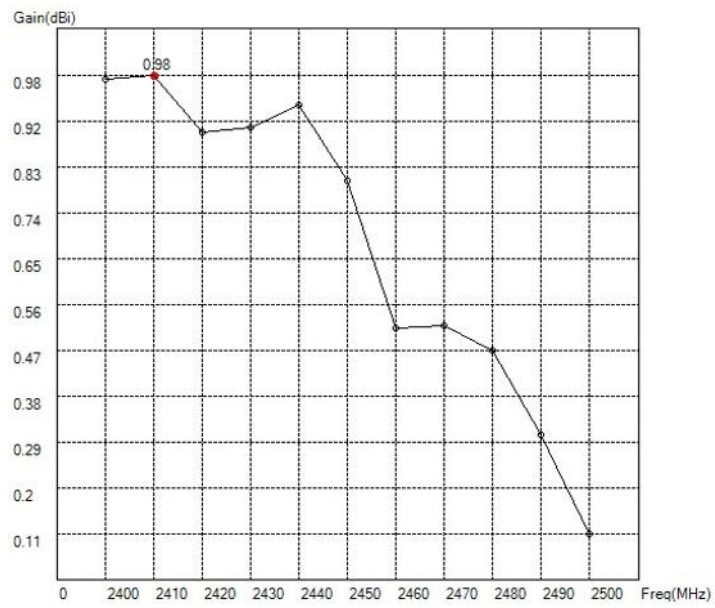


Freq(MHz) 2480 ZY-PlaneMax. -3.3258 Ave. -5.1612 Min. -19.537
ZY-Plane Phi

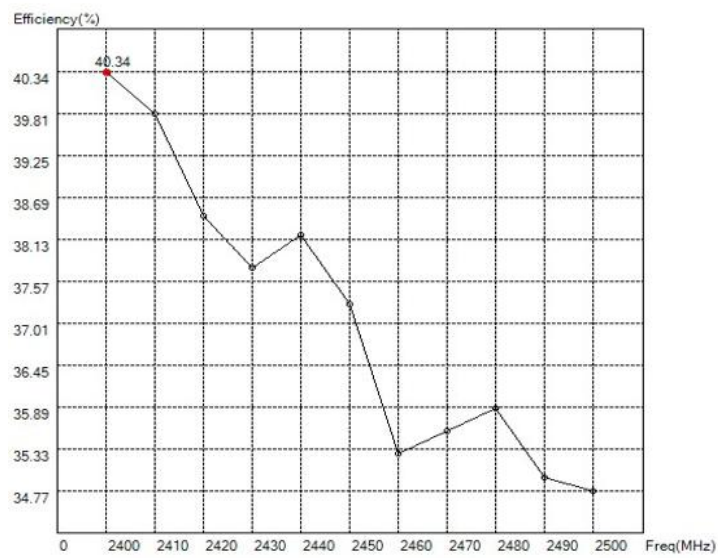




Gain-Plane



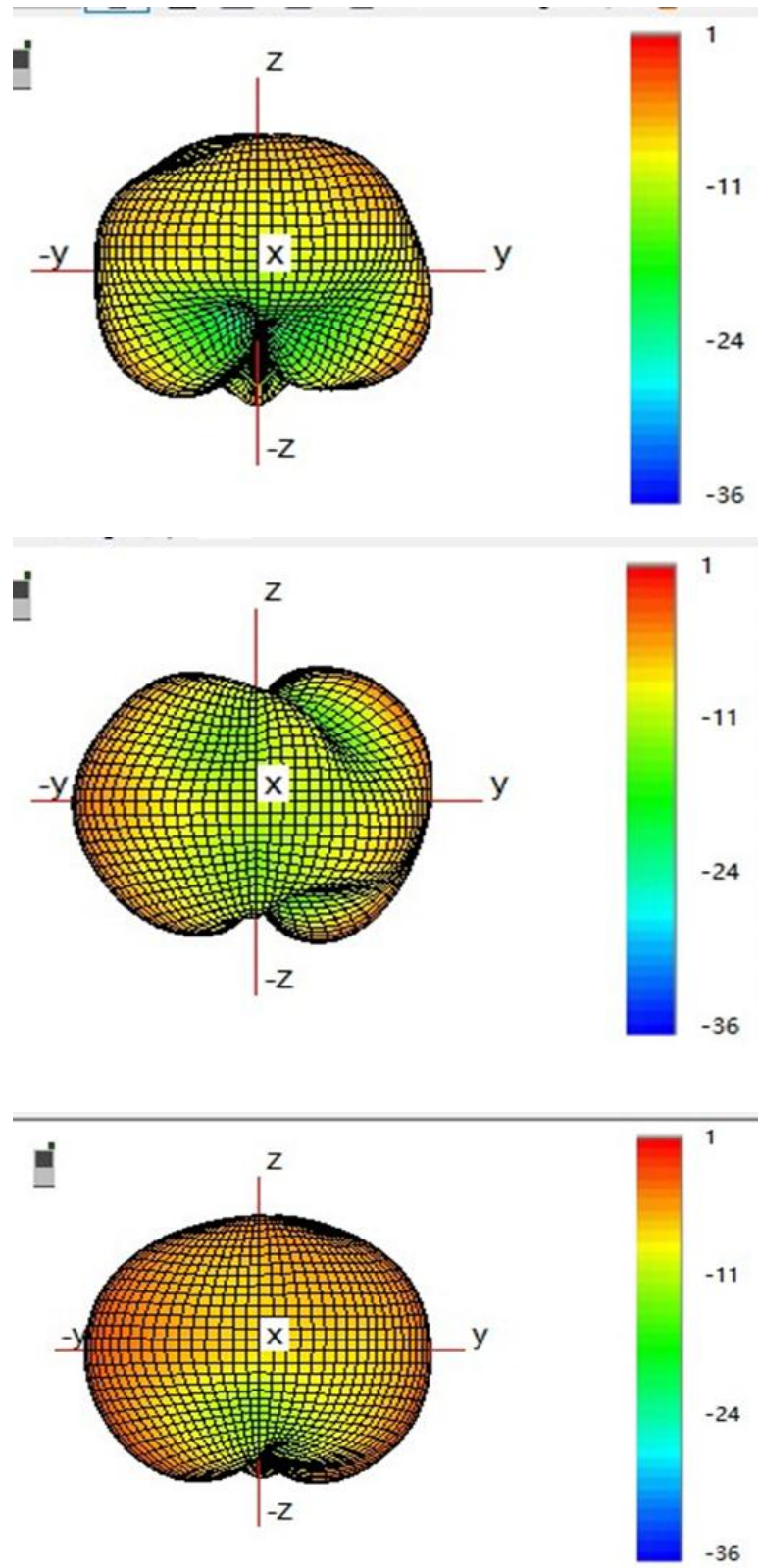
Efficiency-Plane



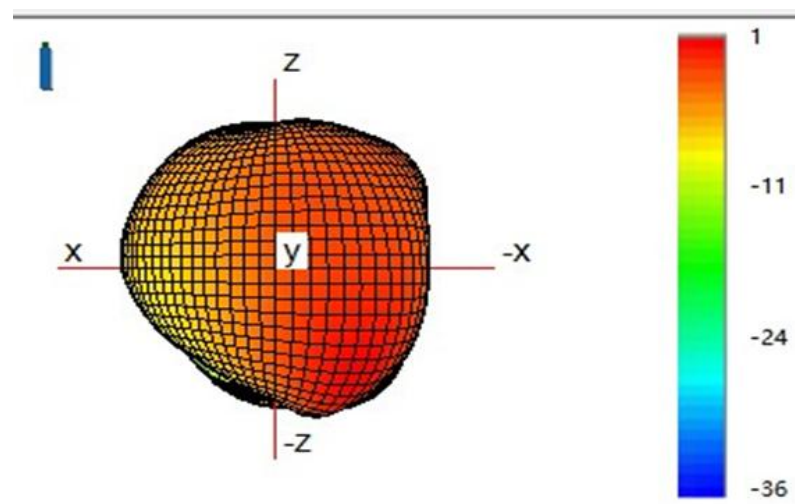
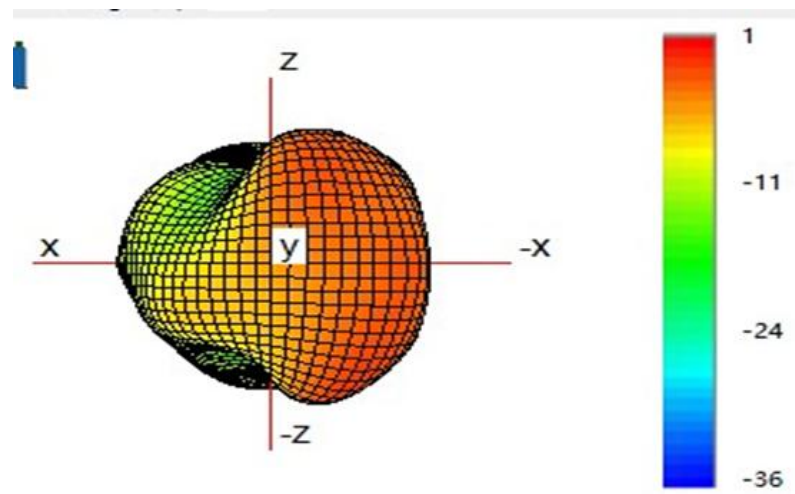
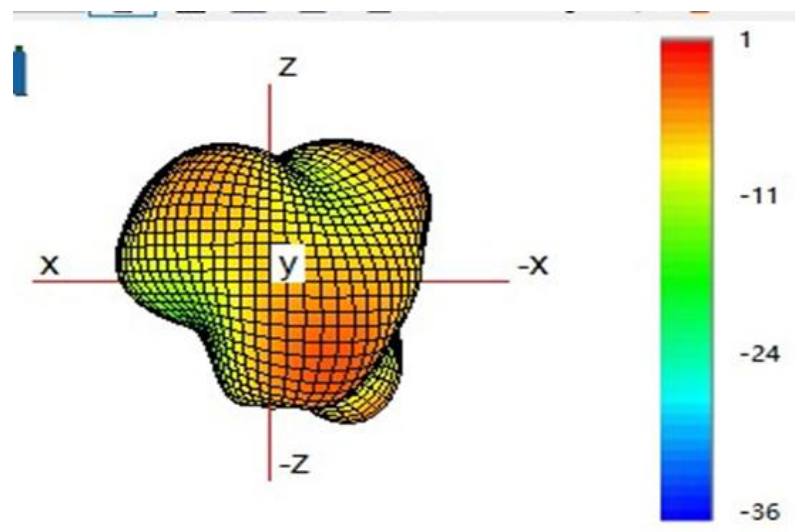
c. 3D Plot

1) 2400MHz

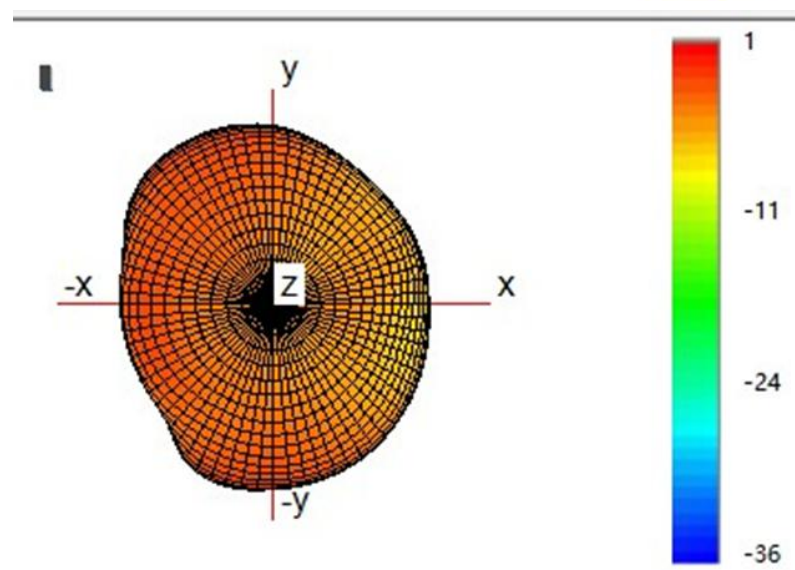
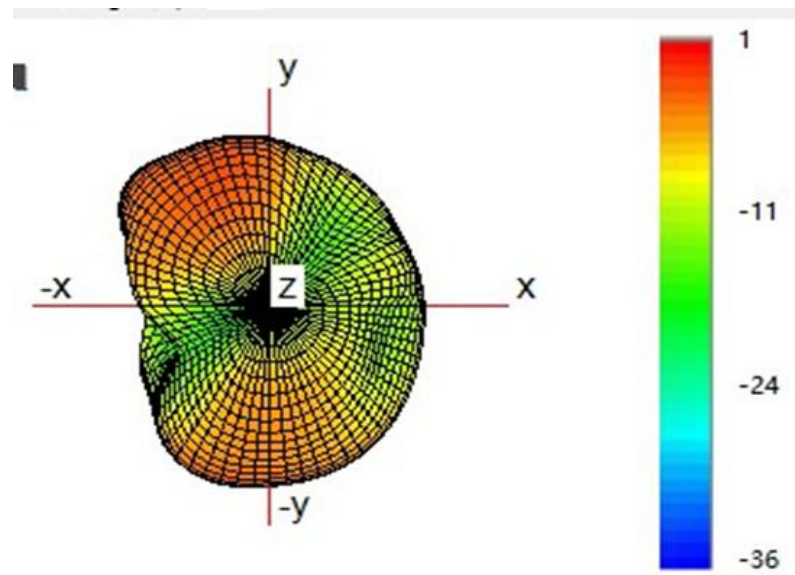
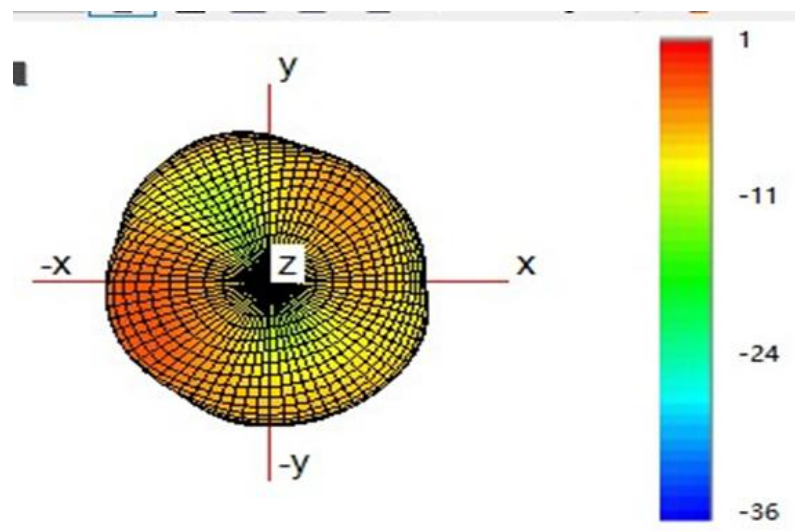
2400MHz X+



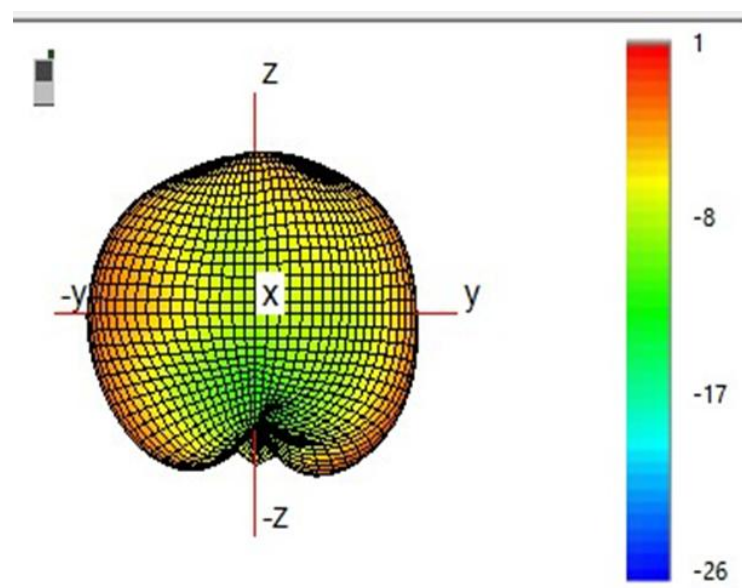
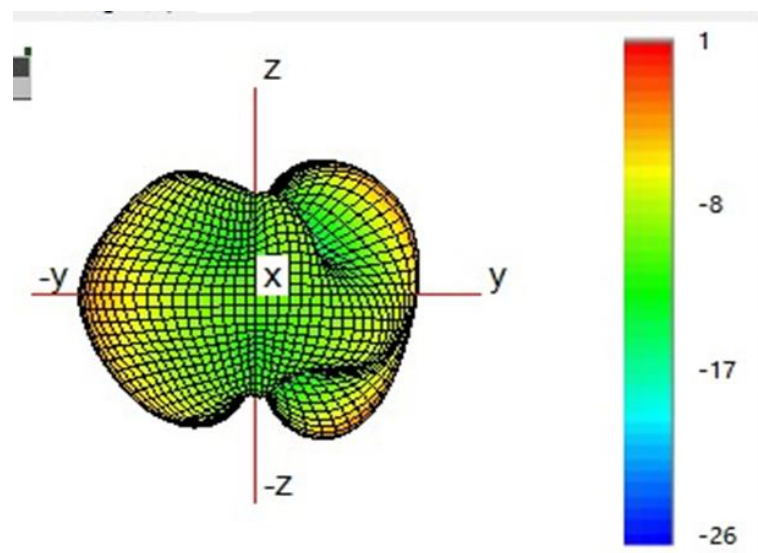
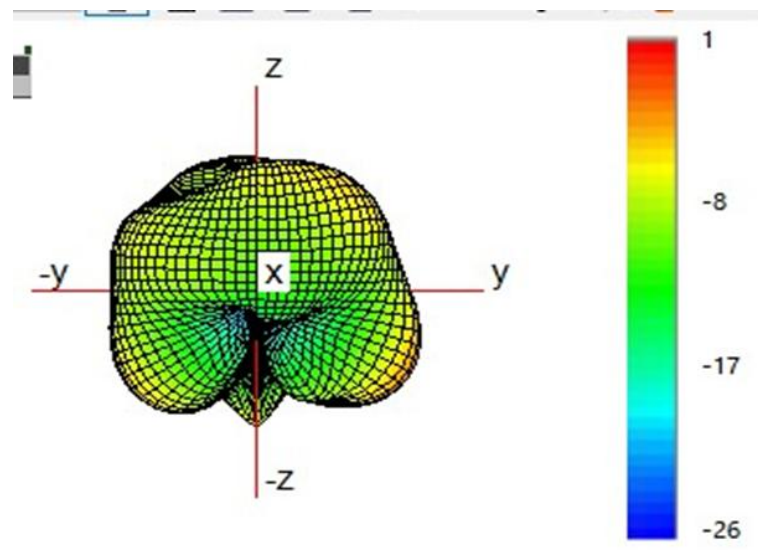
2400MHz Y+



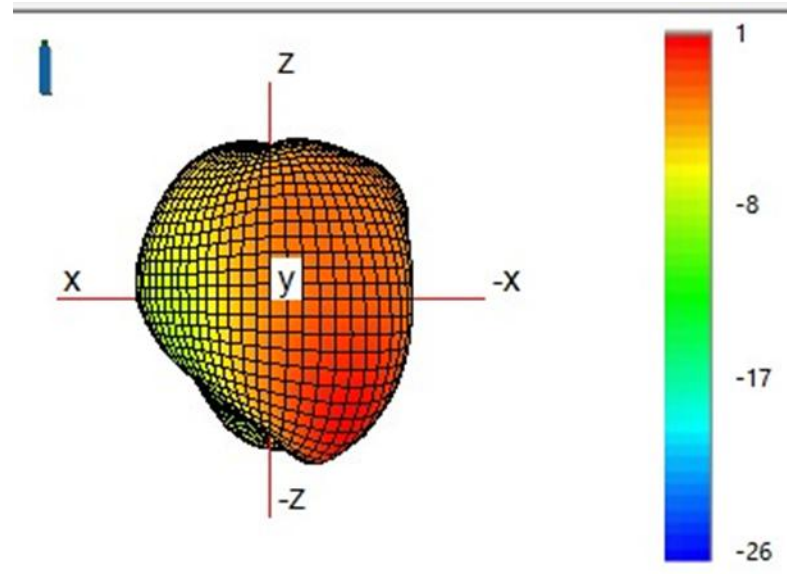
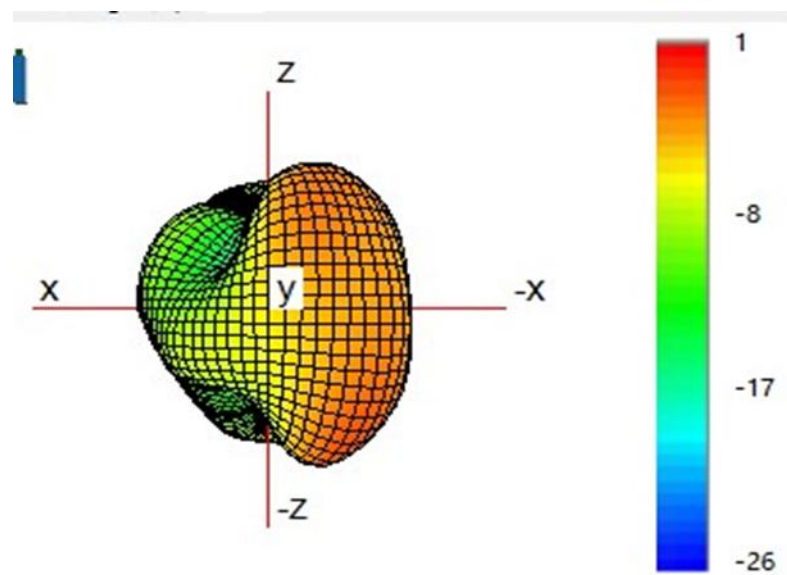
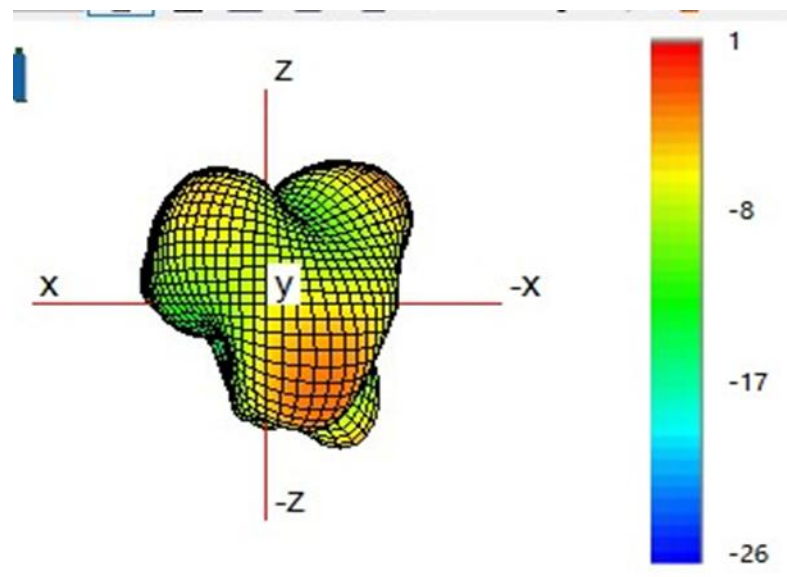
2400MHz Z+



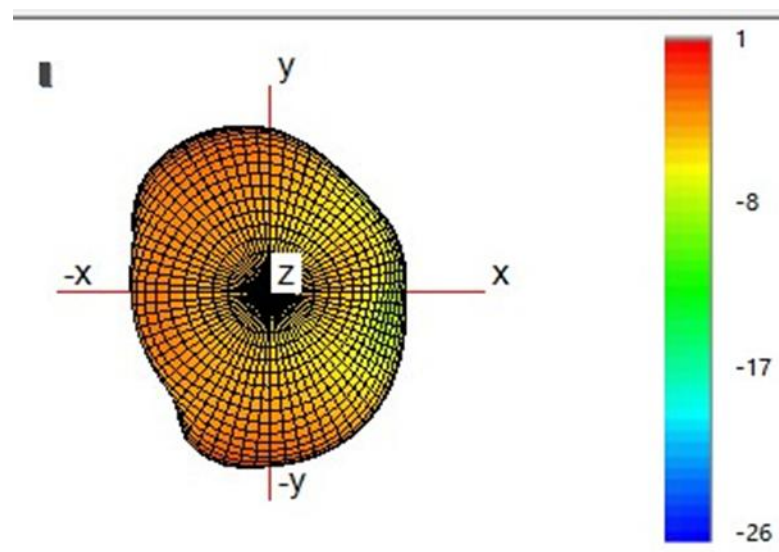
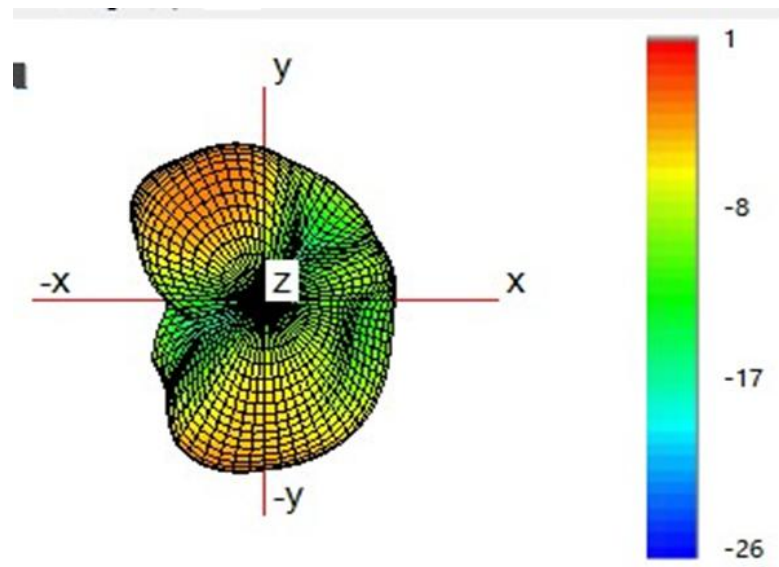
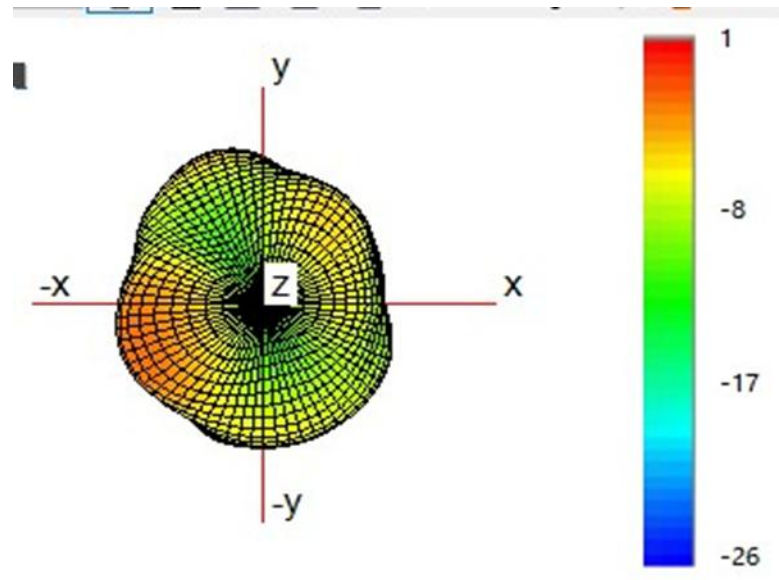
2) 2420MHz
2420MHz X+



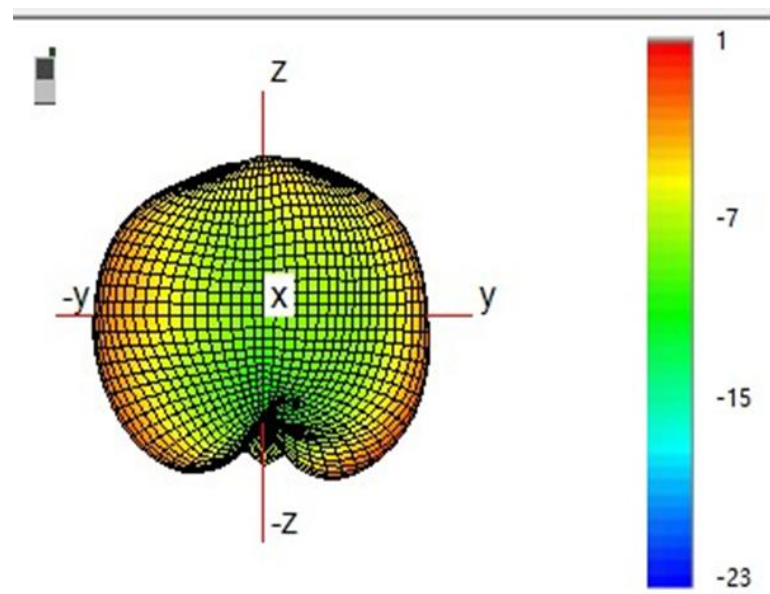
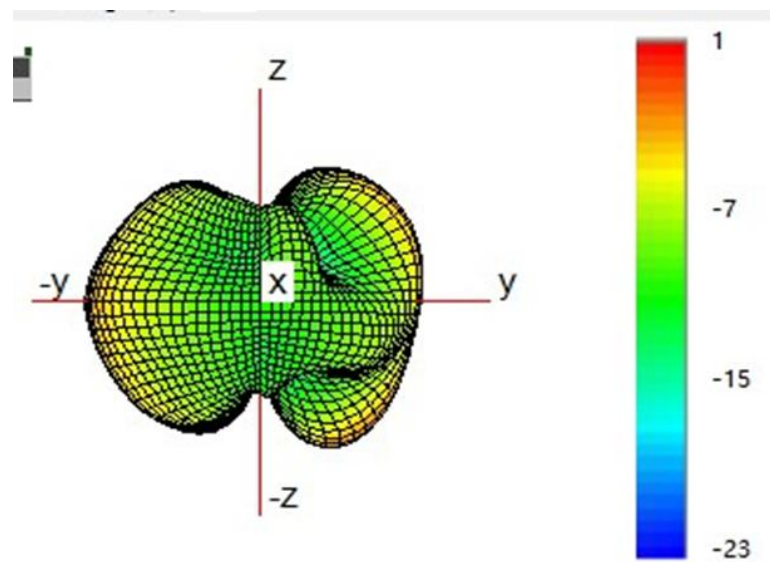
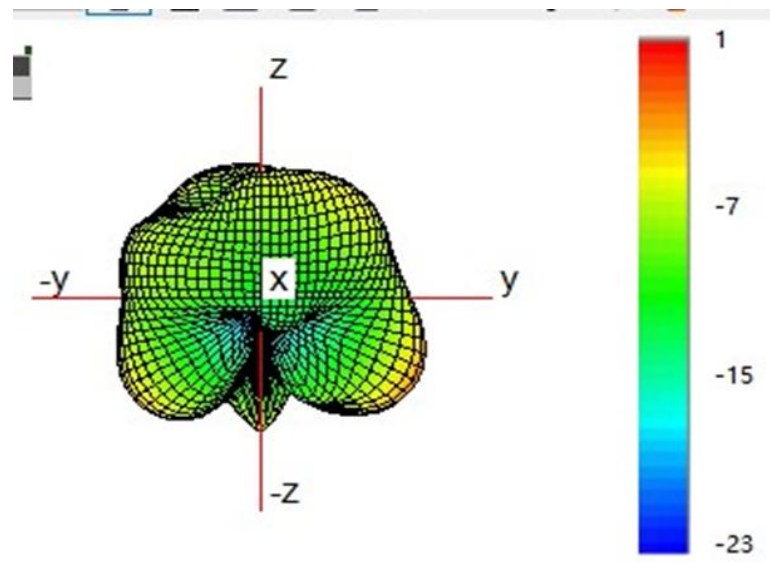
2420MHz Y+

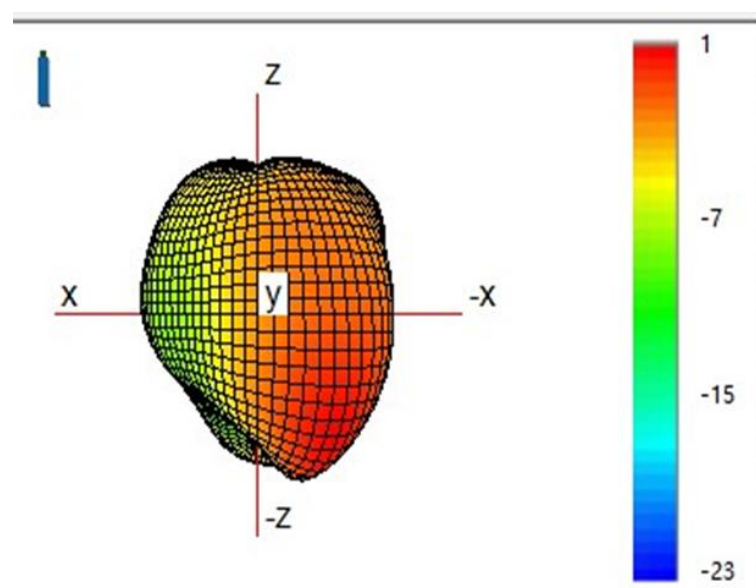
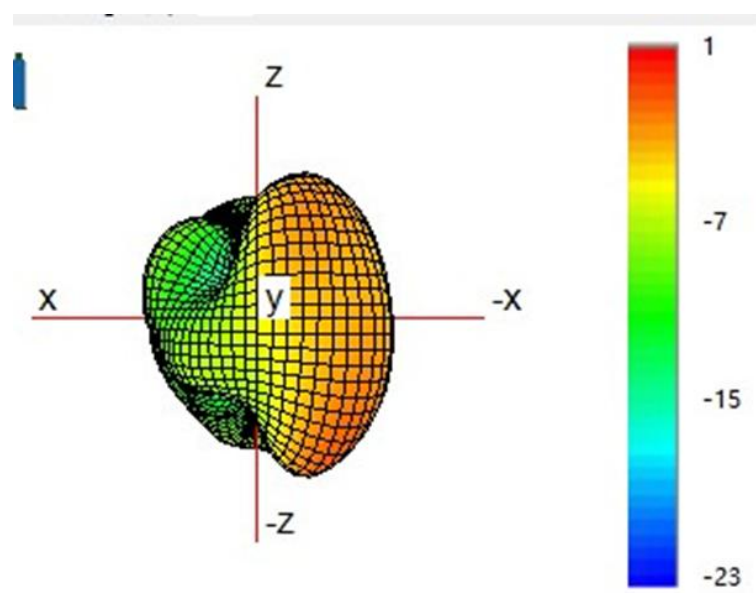
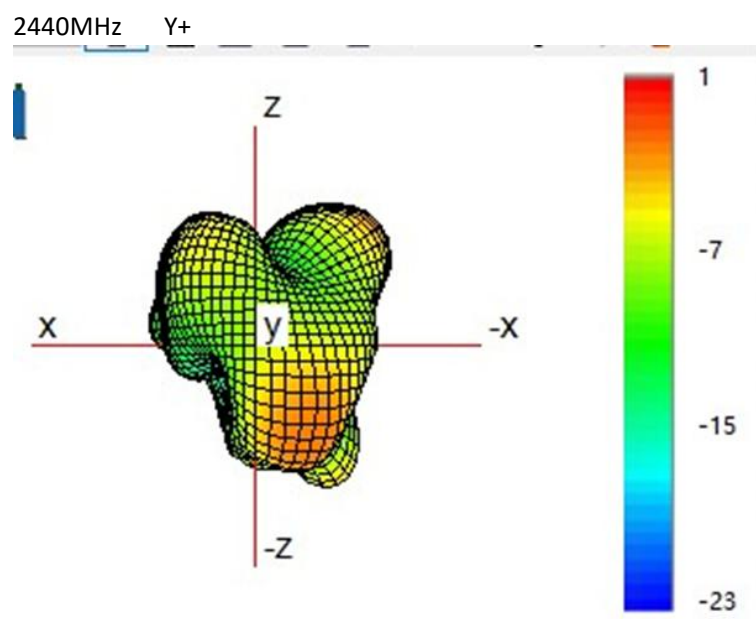


2420MHz Z+

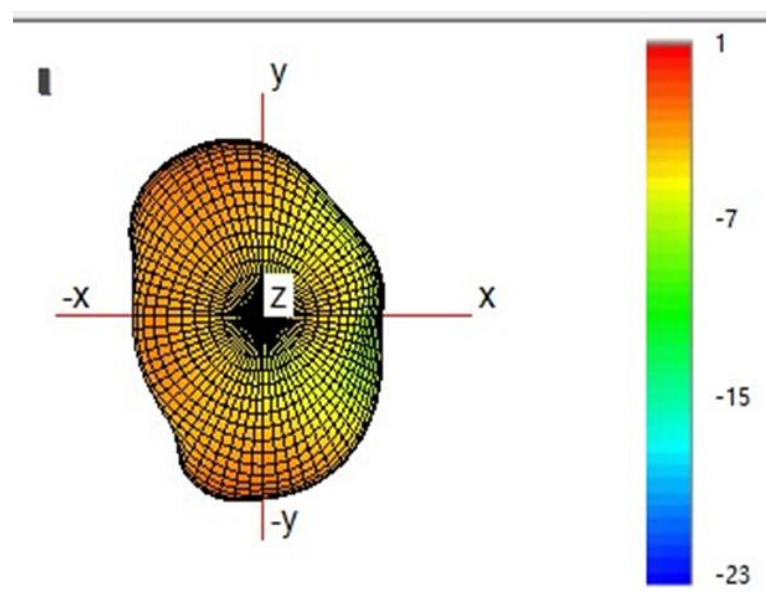
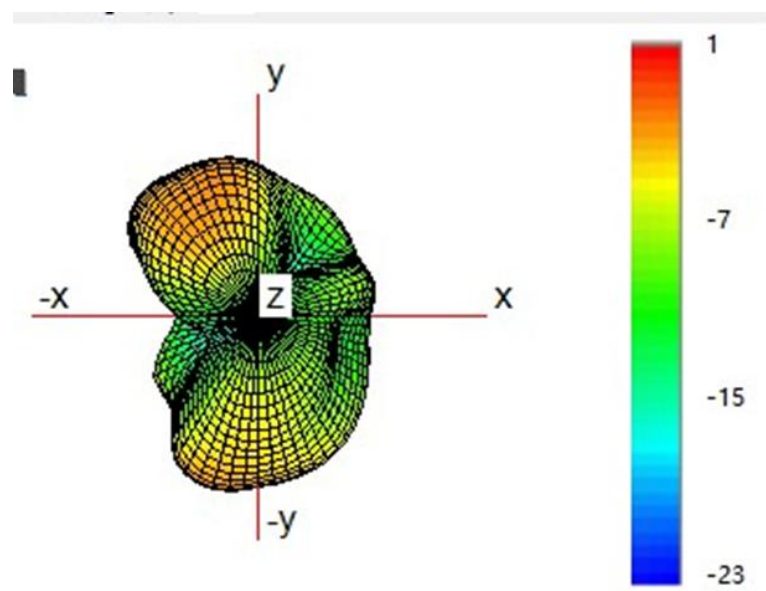
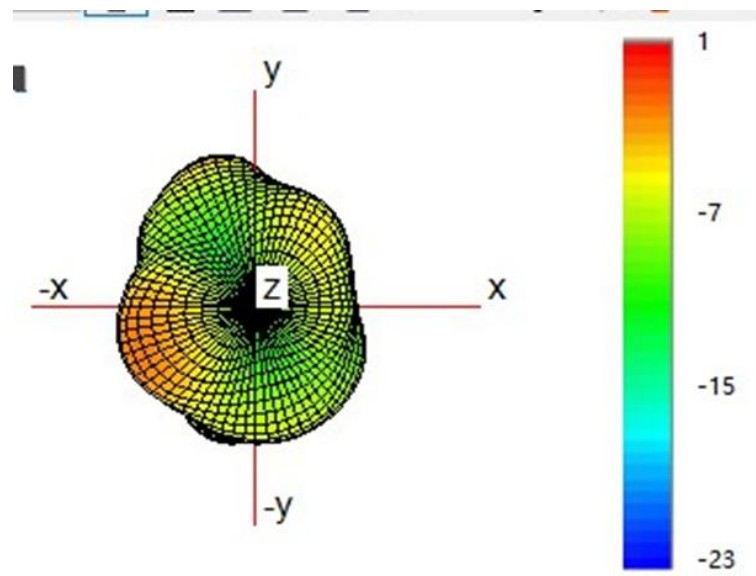


3) 2440MHz
2440MHz X+

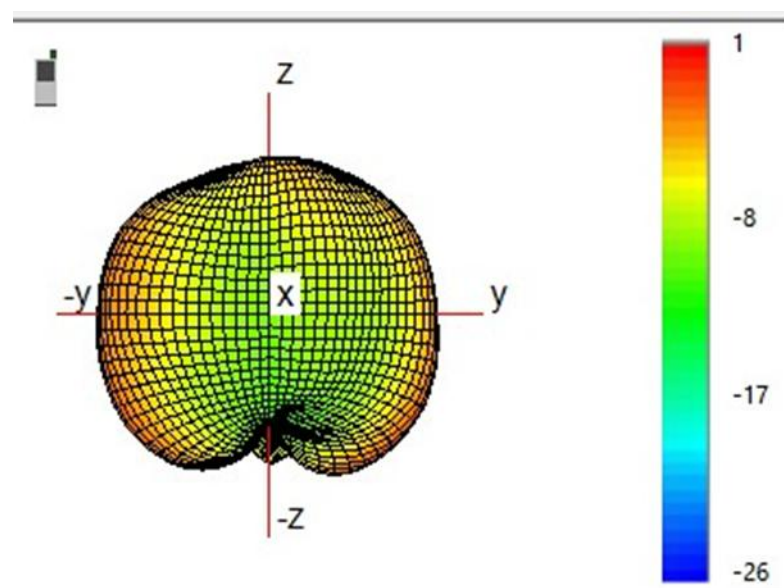
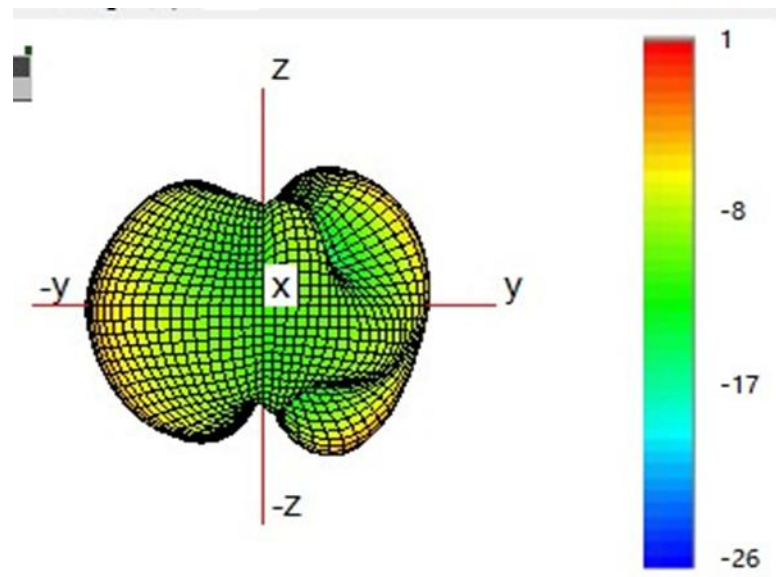
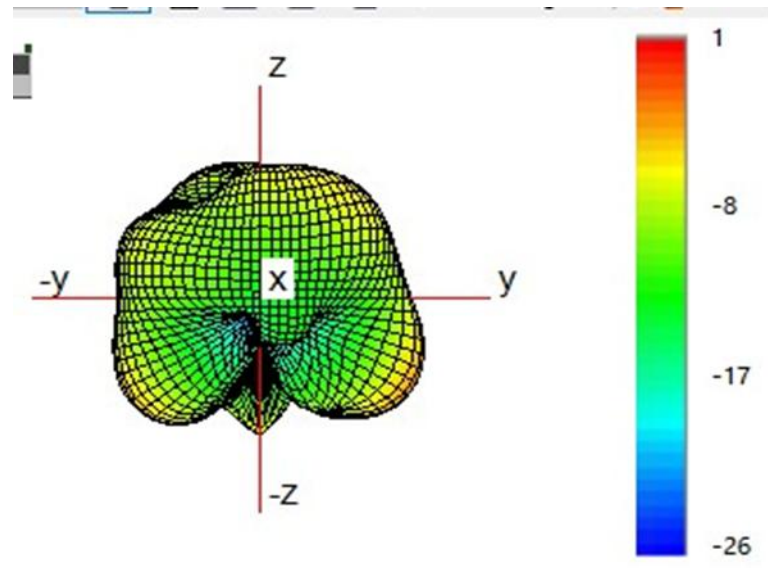




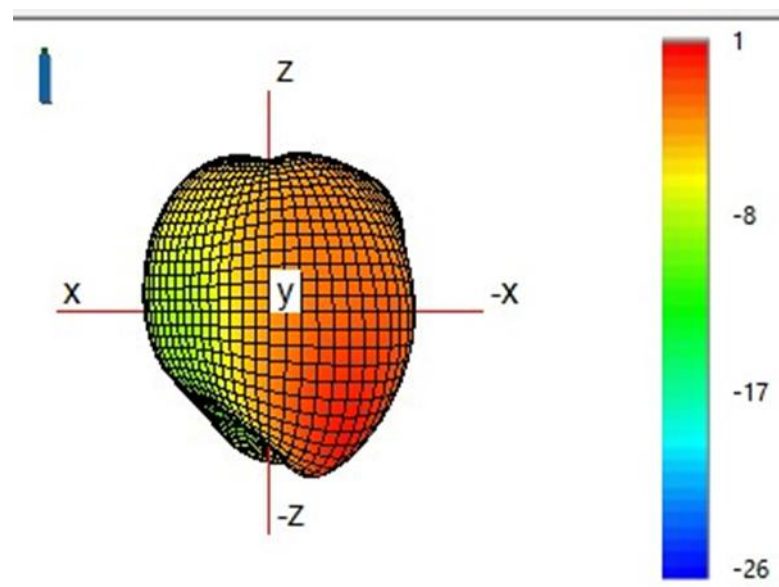
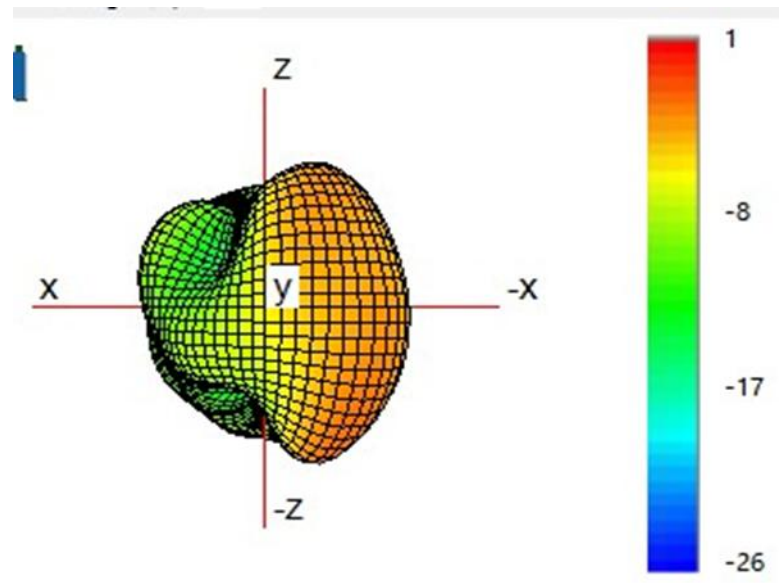
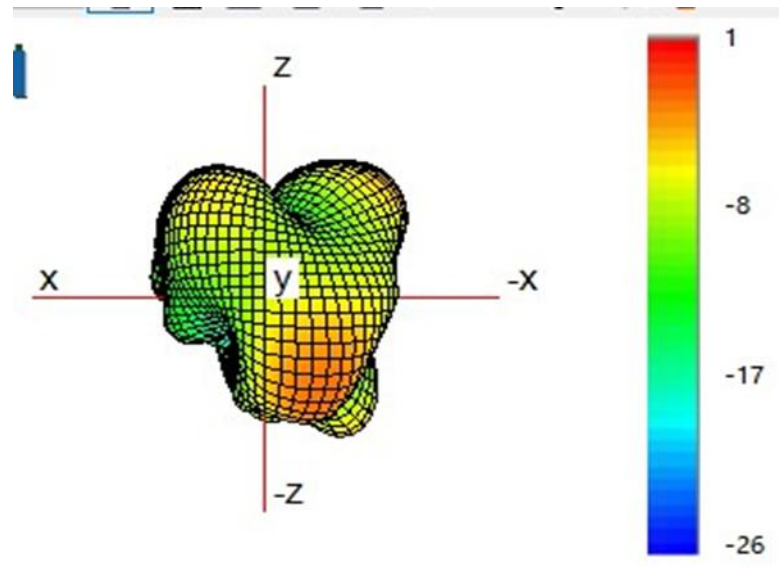
2440MHz Z+



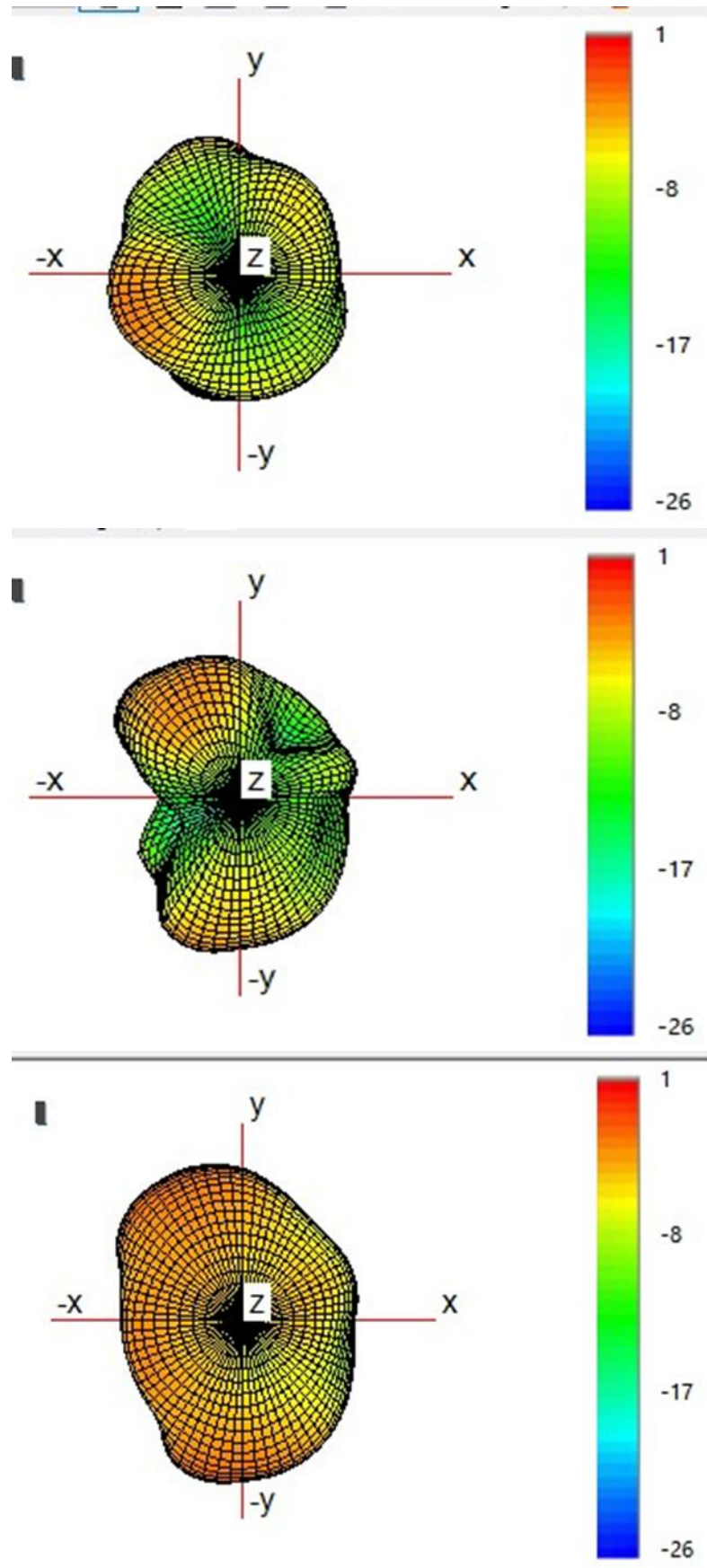
4) 2460MHz
2460MHz X+



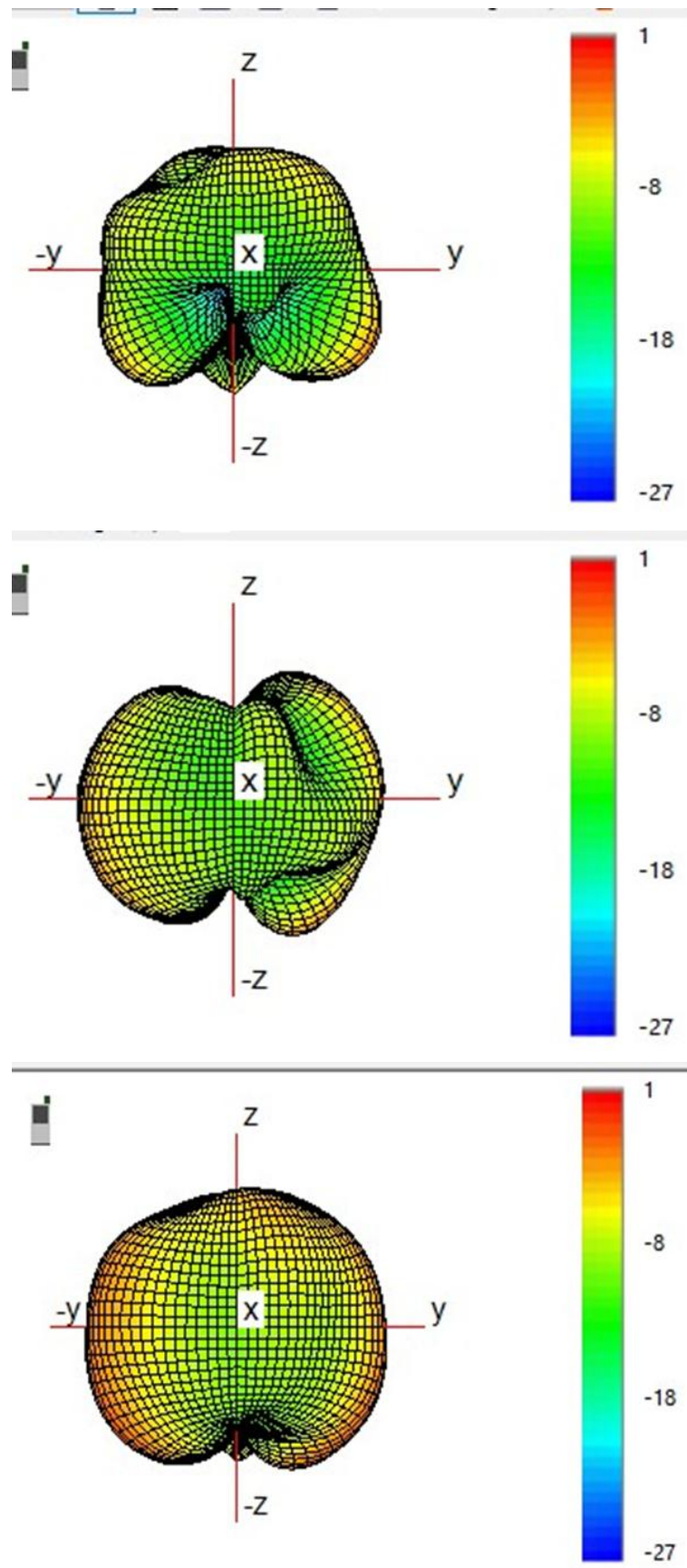
2460MHz Y+



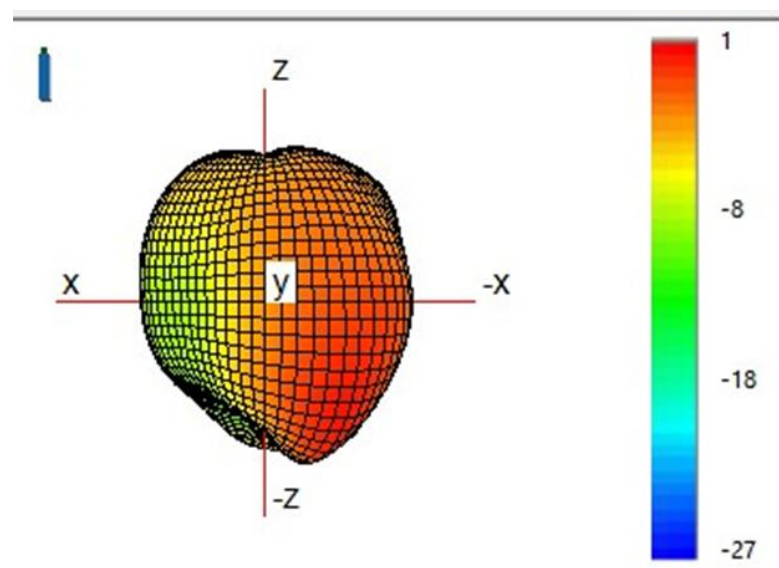
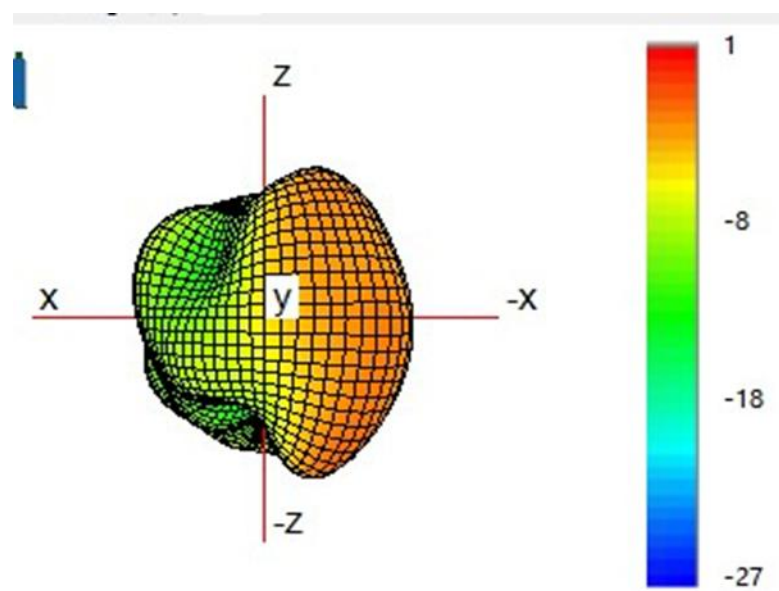
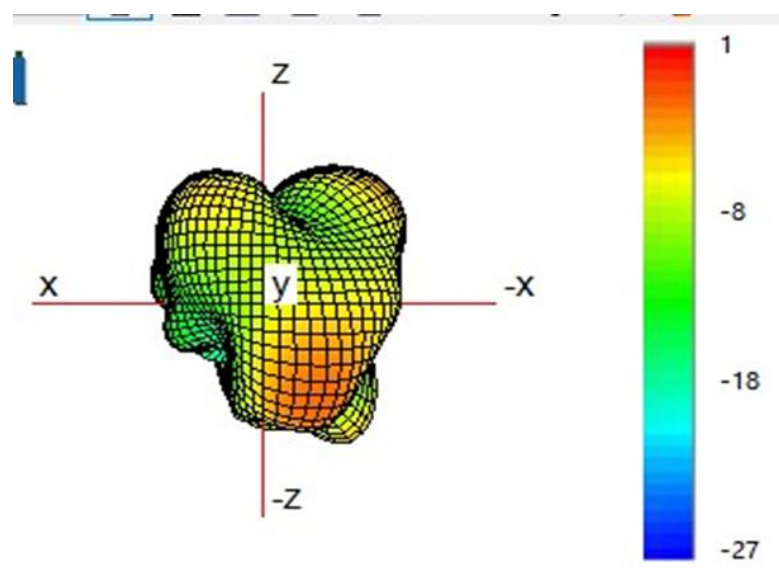
2460MHz Z+



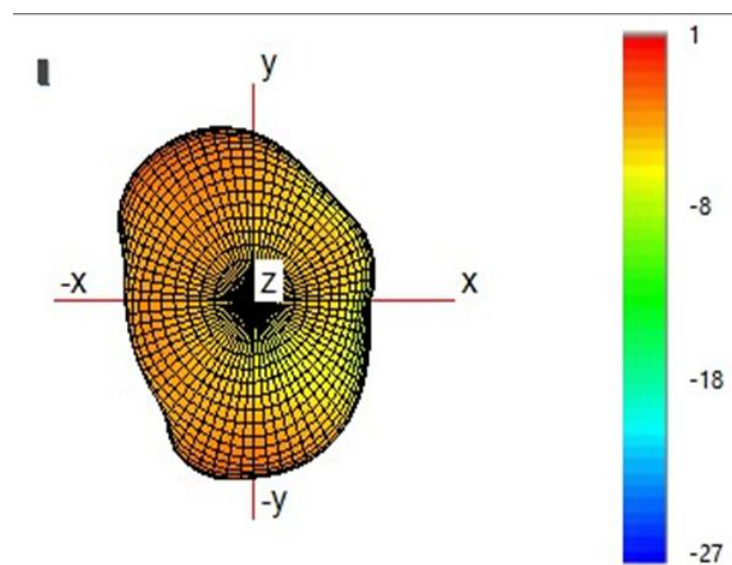
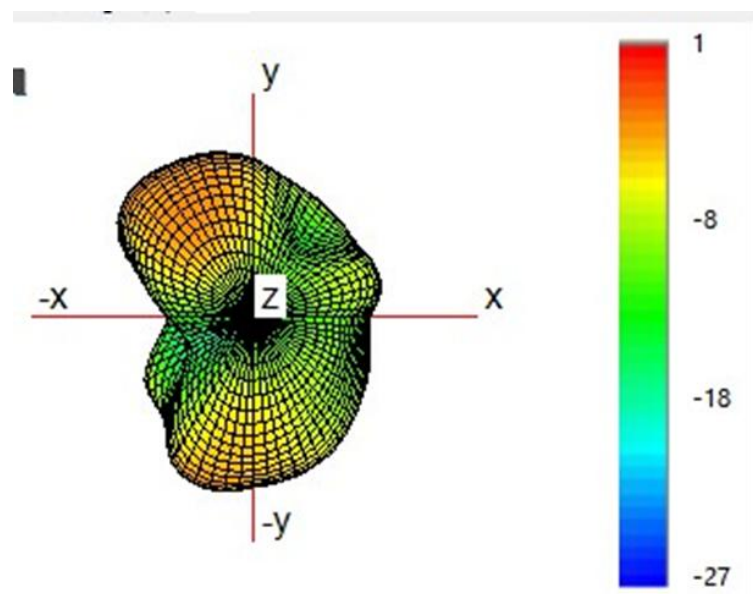
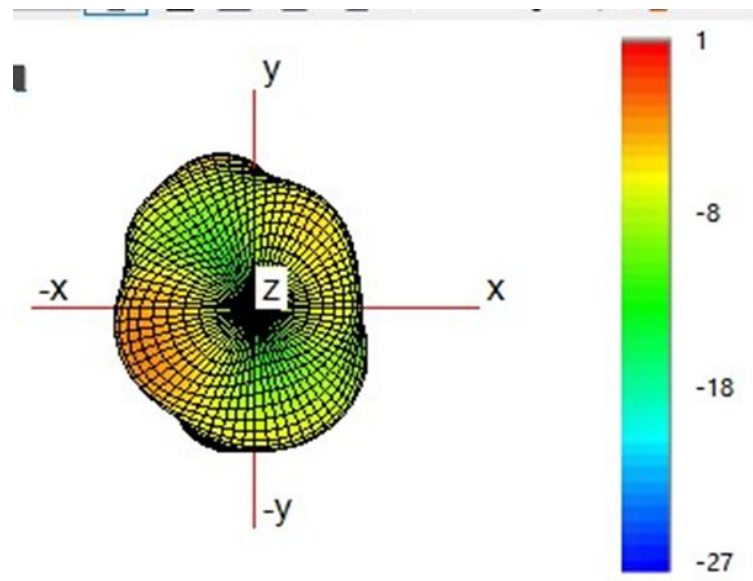
5) 2480MHz
2480MHz X+



2480MHz Y+



2480MHz Z+



(2) TIS Active data

Cover

Maxsign 100 Test Report

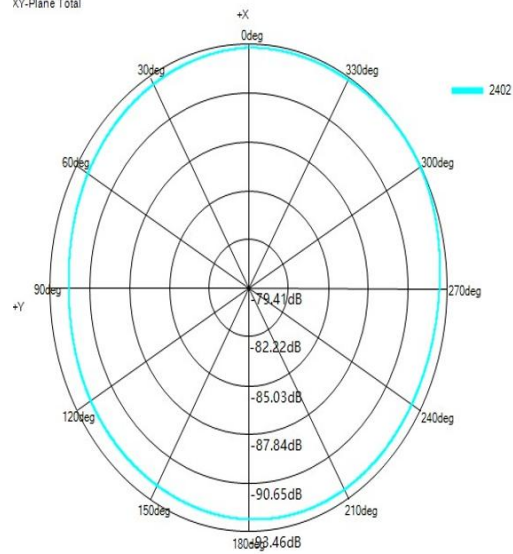
a. Summary Report

Band	Channel	Frequency(MHz)	Conducted Power/Conducted Sensitivity (dBm)	AntennaLabel	TRP/TIS (dBm)	Peak EIS	Min EIS	BoreSigh tTheta(°)	BoreSig htPhi(°)	NHPRP ± 45/NHPI S ± 45 (dBm)	NHPRP ± 30/NHPIS ± 30 (dBm)
Classic	0	2402			-91.11548382	-93.4209506	-79.6957037	90	300	-90.243	-89.07051
Classic	19	2421			-90.17916578	-92.3208368	-78.5643789	90	300	-89.298	-88.09819
Classic	39	2441			-90.92017055	-92.9177014	-79.4151738	90	330	-90.024	-88.79661
Classic	59	2461			-90.77146596	-92.6942949	-79.318294	90	300	-89.862	-88.61305
Classic	78	2480			-90.43684351	-92.4038417	-78.9207132	90	330	-89.521	-88.26221

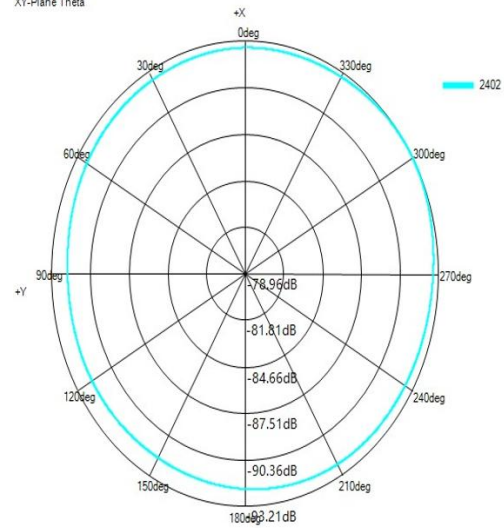
b. 2D Plot

1) 2402MHz

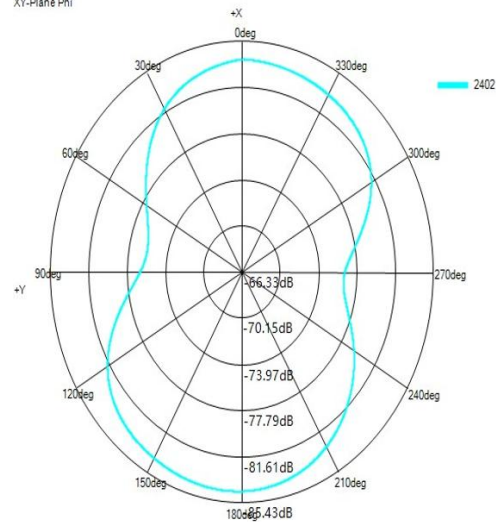
Freq(MHz) 2402 XY-Plane Max. -93.421 Ave. -92.747 Min. -92.038
XY-Plane Total



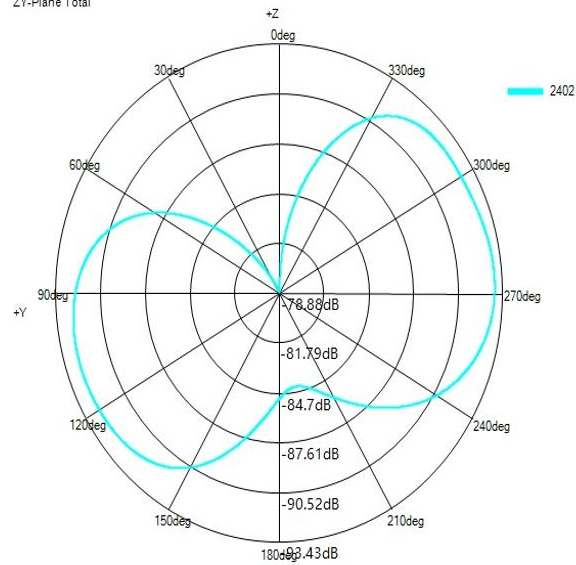
Freq(MHz) 2402 XY-Plane Max. -93.203 Ave. -92.417 Min. -91.741
XY-Plane Theta



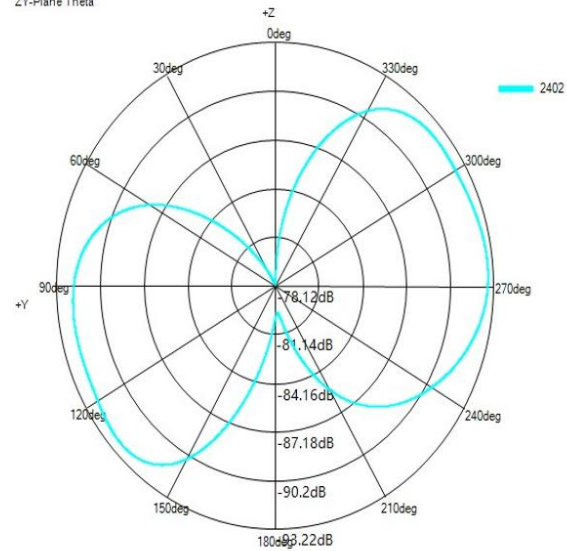
Freq(MHz) 2402 XY-Plane Max. -84.21 Ave. -80.266 Min. -75.35
XY-Plane Phi



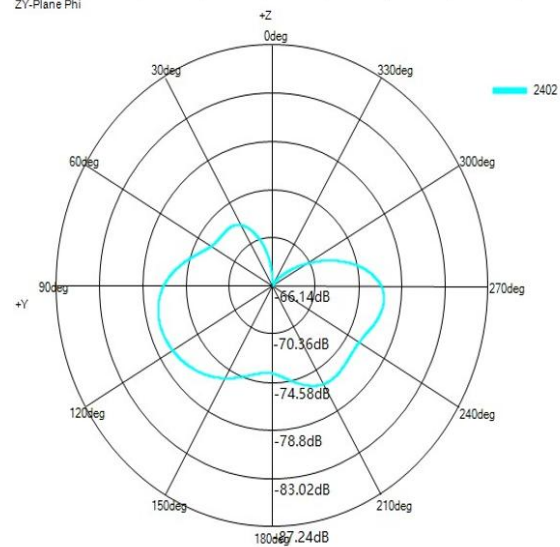
Freq (MHz)	2402	ZY-Plane Max.	-92.797 Ave.	-89.016 Min.	-79.696
ZY-Plane Total					



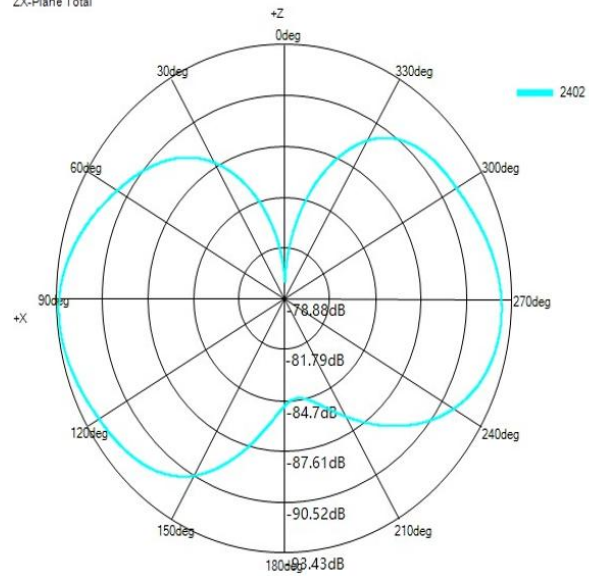
Freq (MHz)	2402	ZY-Plane Max.	-92.718 Ave.	-88.817 Min.	-79.03
ZY-Plane Theta					



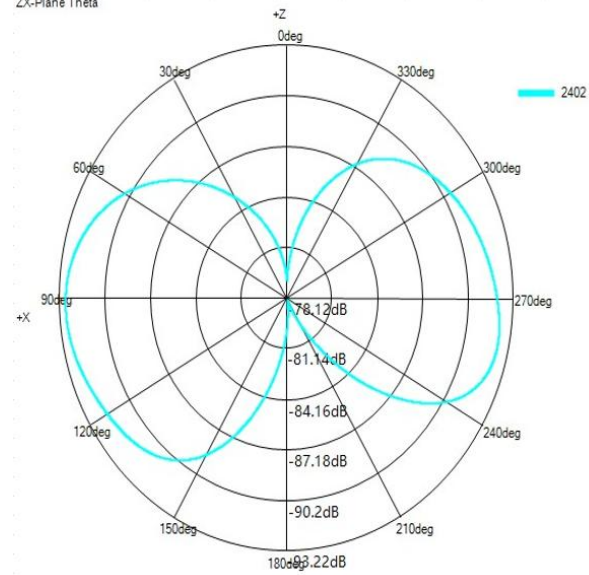
Freq (MHz)	2402	ZY-Plane Max.	-75.984 Ave.	-72.617 Min.	-66.354
ZY-Plane Phi					



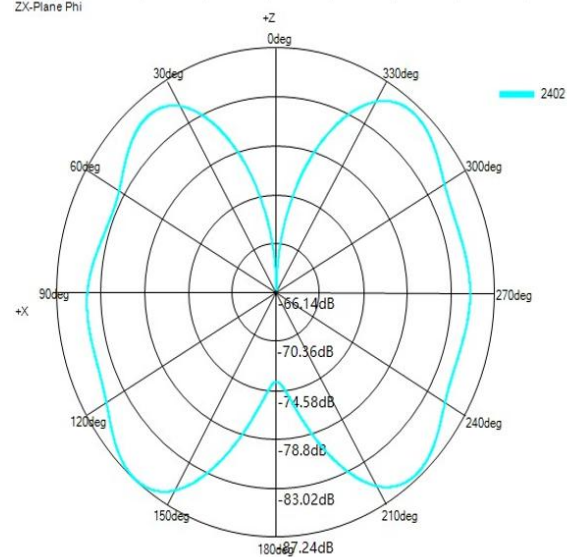
Freq(MHz)	2402	ZX-PlaneMax.	-93.33 Ave.	-90.382 Min.	-79.696
ZX-Plane Total					



Freq(MHz)	2402	ZX-PlaneMax.	-92.833 Ave.	-88.489 Min.	-79.03
ZX-Plane Theta					

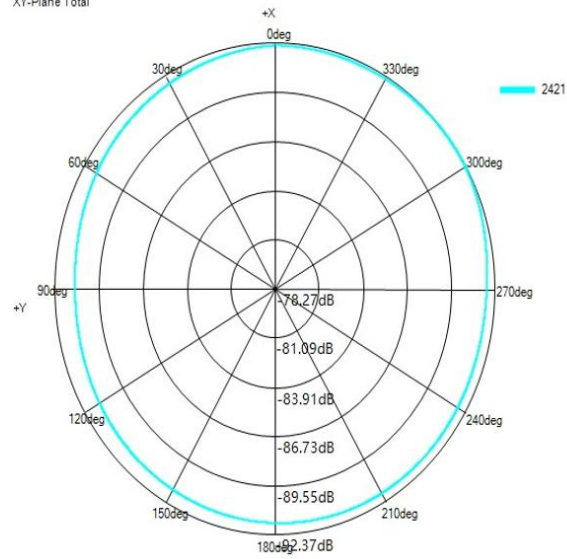


Freq(MHz)	2402	ZX-PlaneMax.	-85.428 Ave.	-84.161 Min.	-66.354
ZX-Plane Phi					

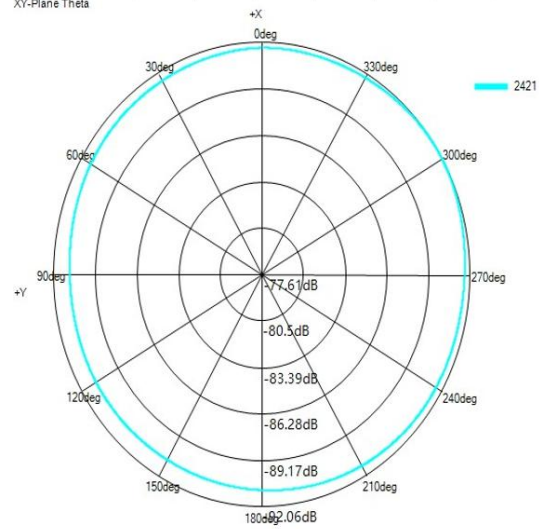


2) 2421MHz

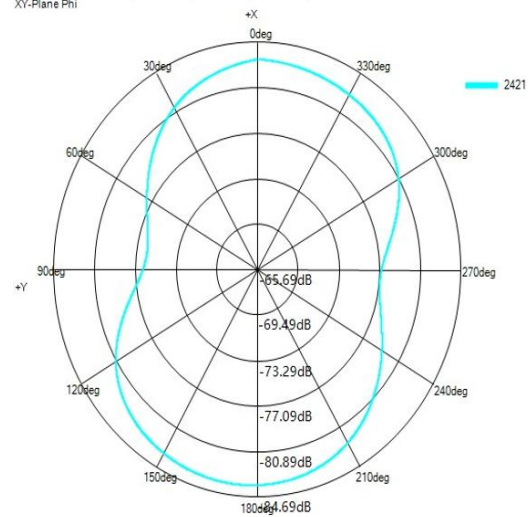
Freq(MHz) 2421 XY-PlaneMax. -92.321 Ave. -91.696 Min. -90.972
XY-Plane Total



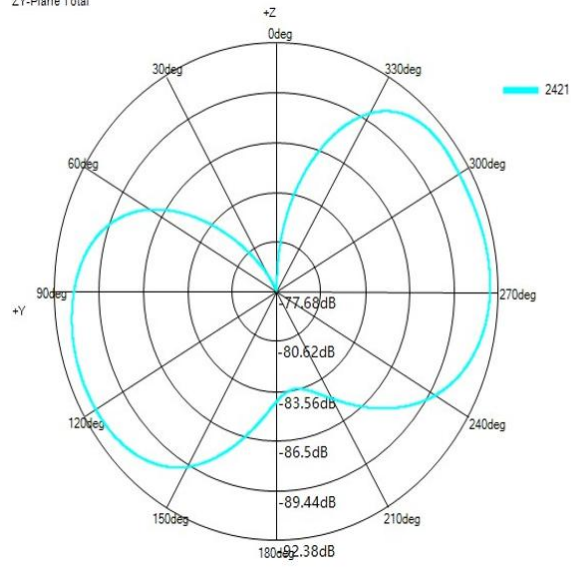
Freq(MHz) 2421 XY-PlaneMax. -92.055 Ave. -91.328 Min. -90.701
XY-Plane Theta



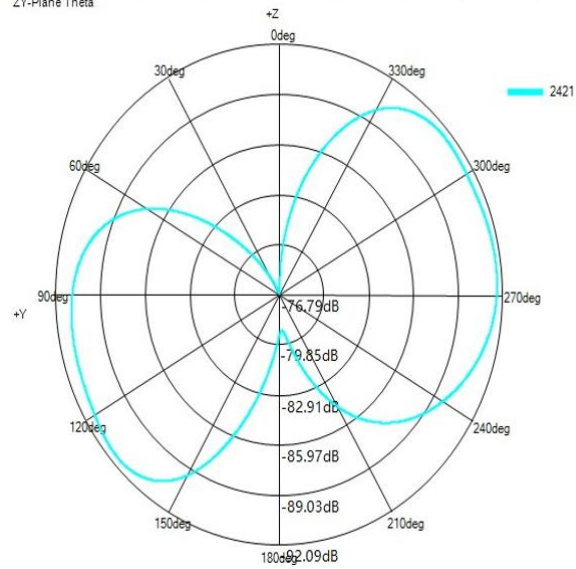
Freq(MHz) 2421 XY-PlaneMax. -83.415 Ave. -79.93 Min. -75.288
XY-Plane Phi



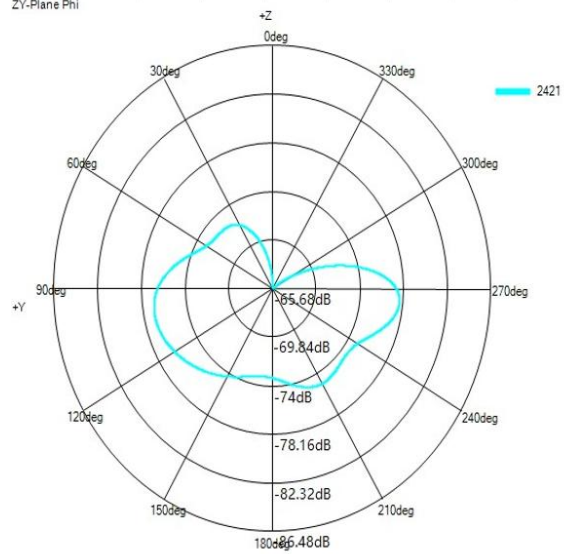
Freq(MHz) 2421 ZY-PlaneMax. -91.718 Ave. -88.063 Min. -78.564
ZY-Plane Total



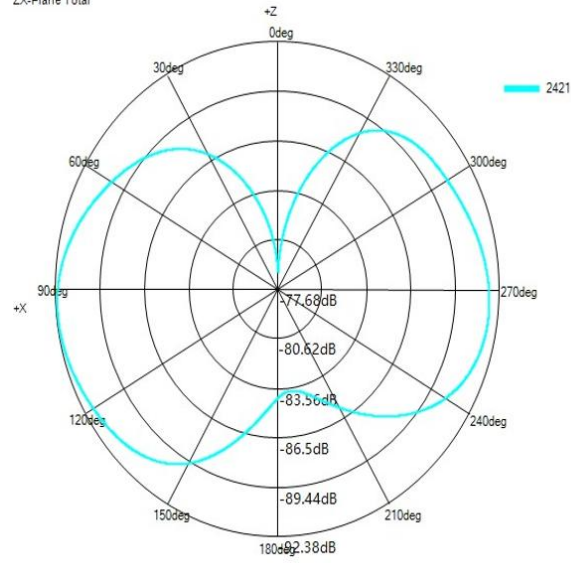
Freq(MHz) 2421 ZY-PlaneMax. -91.599 Ave. -87.835 Min. -77.755
ZY-Plane Theta



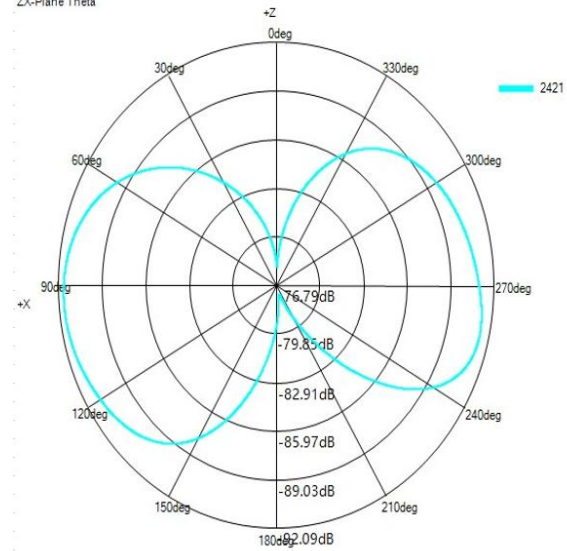
Freq(MHz) 2421 ZY-PlaneMax. -76.063 Ave. -72.027 Min. -65.707
ZY-Plane Phi



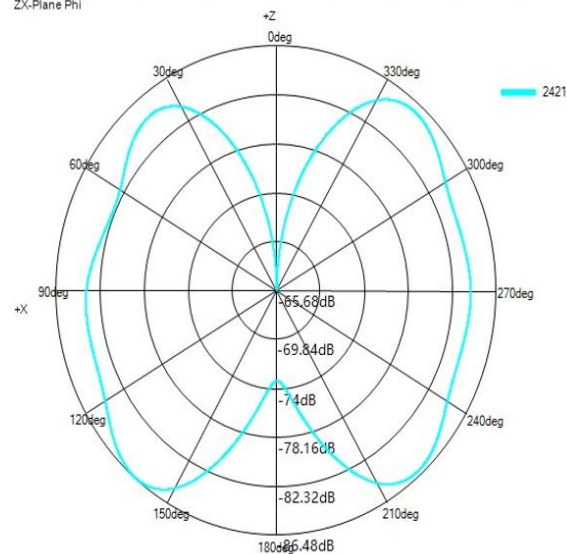
Freq(MHz) 2421 ZX-PlaneMax. -92.301 Ave. -89.481 Min. -78.564
 ZX-Plane Total



Freq(MHz) 2421 ZX-PlaneMax. -91.758 Ave. -87.557 Min. -77.755
 ZX-Plane Theta

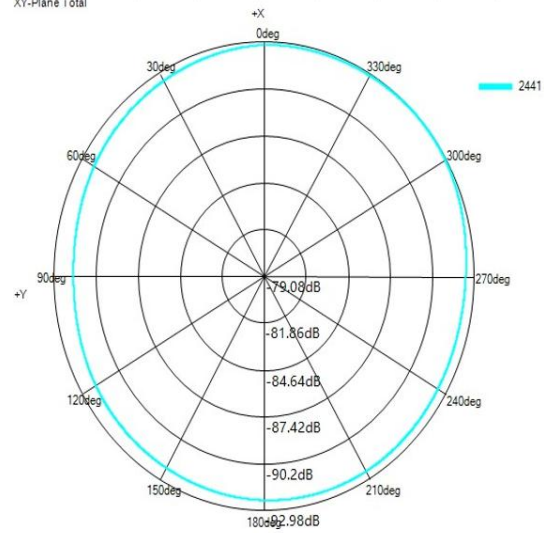


Freq(MHz) 2421 ZX-PlaneMax. -84.69 Ave. -83.39 Min. -65.707
 ZX-Plane Phi

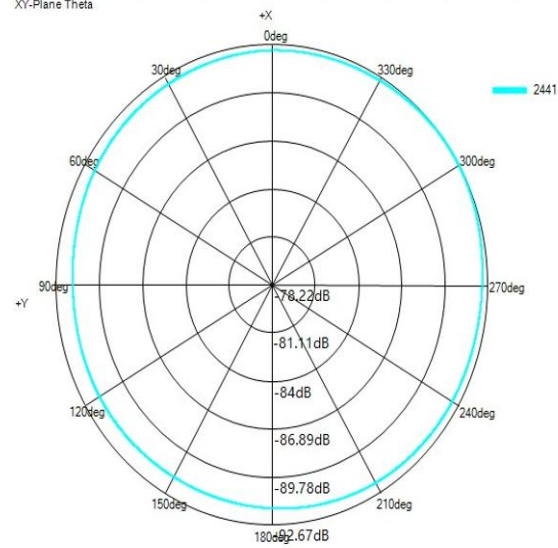


3) 2441MHz

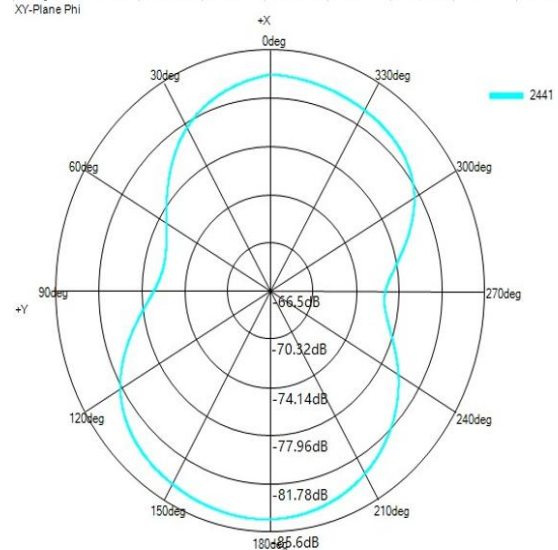
Freq(MHz) 2441 XY-PlaneMax. -92.918Ave. -92.32Min. -91.593
XY-Plane Total



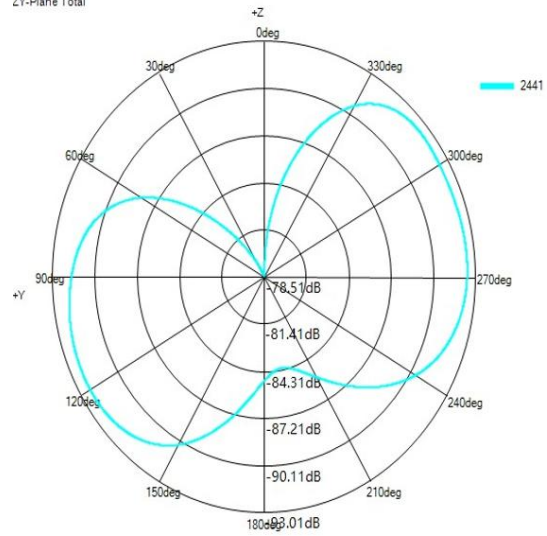
Freq(MHz) 2441 XY-PlaneMax. -92.661Ave. -91.959Min. -91.349
XY-Plane Theta



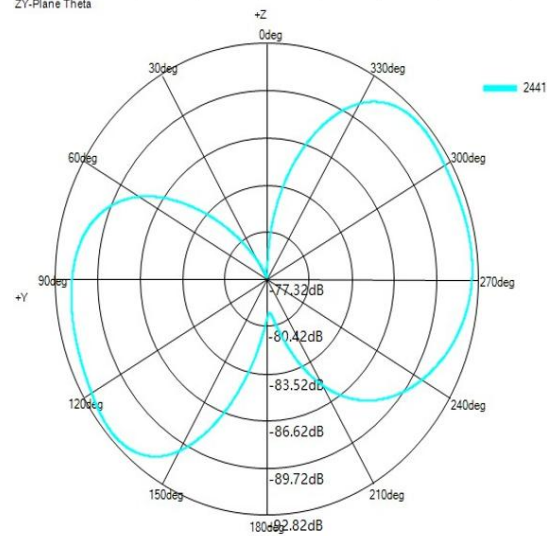
Freq(MHz) 2441 XY-PlaneMax. -84.314Ave. -80.291Min. -75.532
XY-Plane Phi



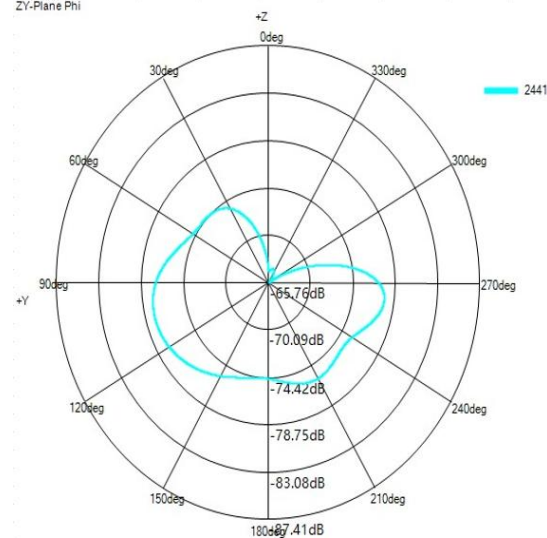
Freq(MHz) 2441 ZY-PlaneMax. -92.307 Ave. -88.814 Min. -79.415
ZY-Plane Total



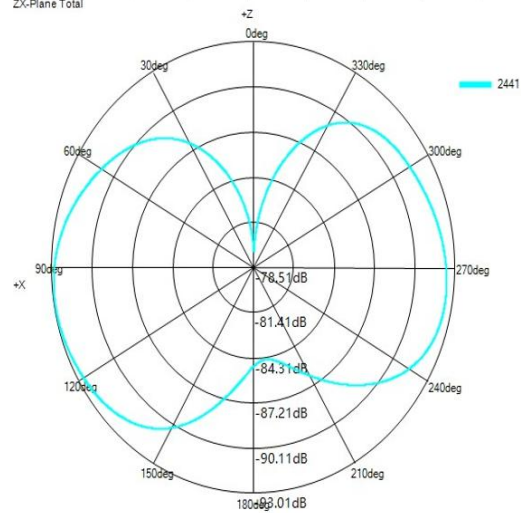
Freq(MHz) 2441 ZY-PlaneMax. -92.262 Ave. -88.571 Min. -78.365
ZY-Plane Theta



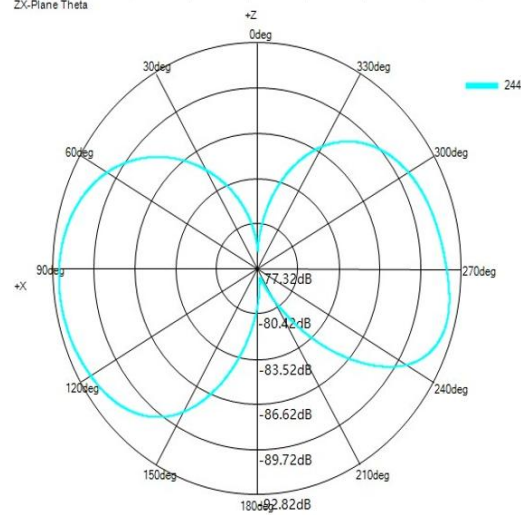
Freq(MHz) 2441 ZY-PlaneMax. -75.962 Ave. -72.559 Min. -66.523
ZY-Plane Phi



Freq(MHz) 2441 ZX-PlaneMax. -92.872 Ave. -90.252 Min. -79.415
ZX-Plane Total



Freq(MHz) 2441 ZX-PlaneMax. -92.365 Ave. -88.296 Min. -78.365
ZX-Plane Theta



Freq(MHz) 2441 ZX-PlaneMax. -85.602 Ave. -84.194 Min. -66.523
ZX-Plane Phi

