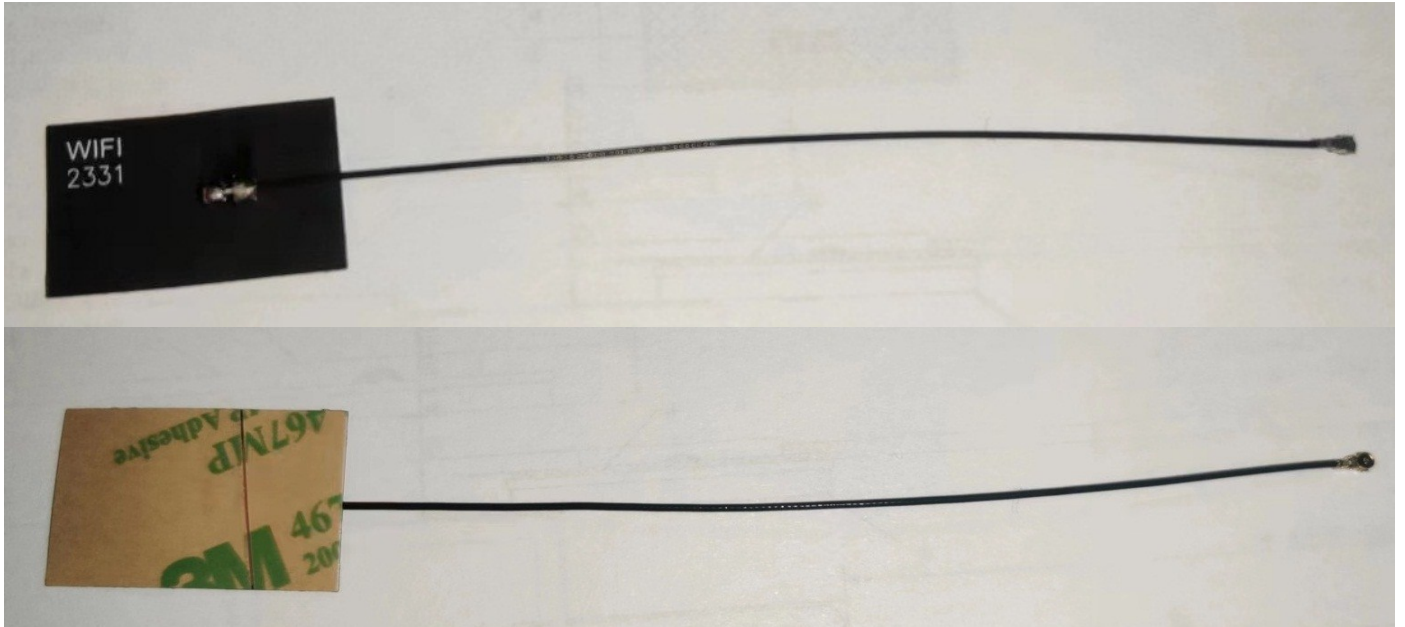


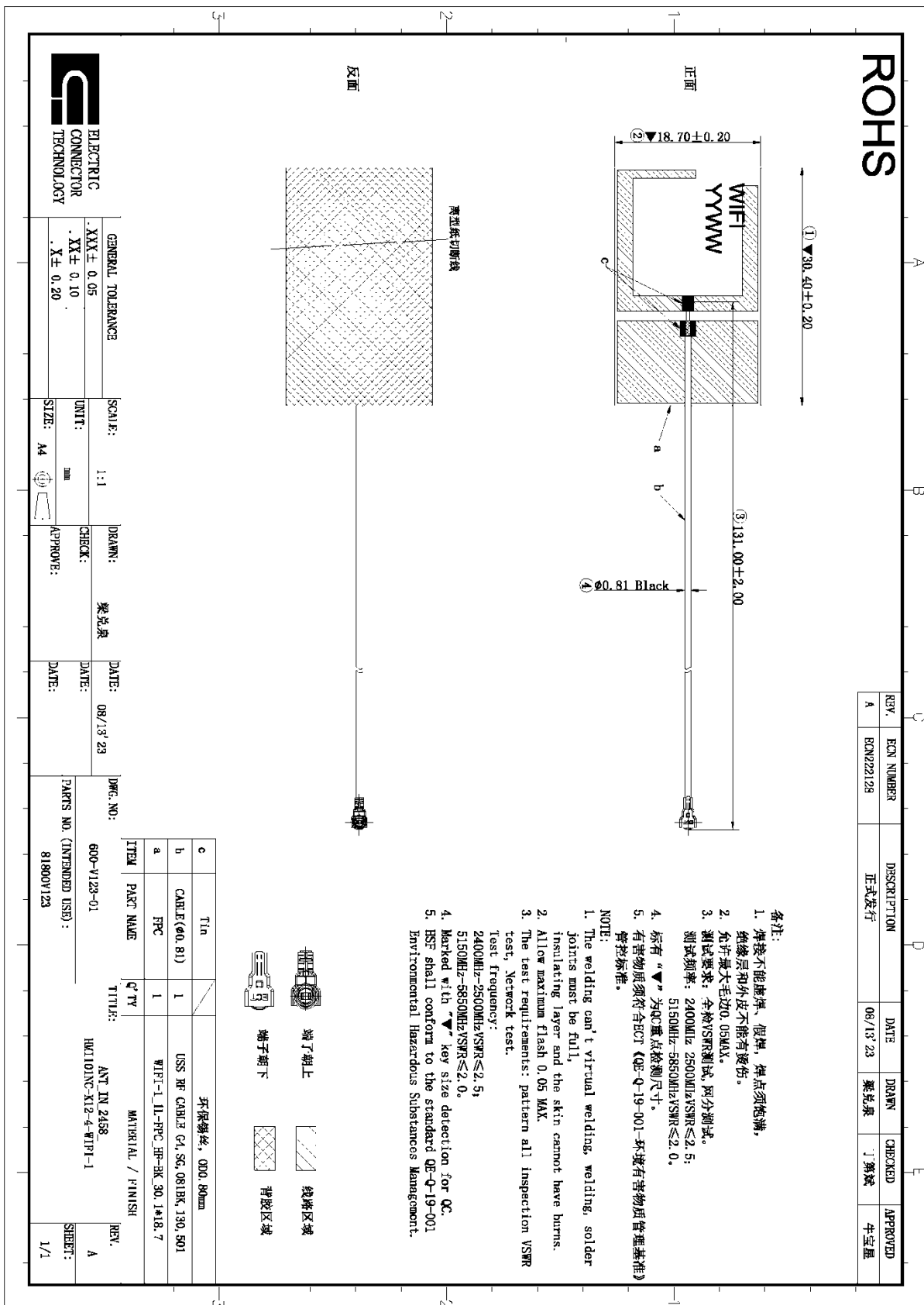
1. Antenna Specification/天线标准

Antenna Specification/天线技术参数		
Electrical Specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. Range/频段范围	2400MHz-2500MHz 5150MHz-5850MHz	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	2400MHz-2500MHz \leq 2.5 ; 5150MHz-5850MHz \leq 2.0 ;	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak Gain/峰值增益	2400MHz-2500MHz 峰值增益为 3.63(dBi); 5150MHz-5850MHz 峰值增益为 4.61(dBi);	
Test condition/测试条件	passive test	
Total Efficiency/无源效率	2400MHz-2500MHz 平均效率为 41.23%; 5150MHz-5850MHz 平均效率为 31.65%;	
Mechanical Specification/机械指标		
Antenna type/天线类型	FPC+Cable	
Connector Type/连接器类型	USS RF 4 代 (501)	
RF Cable Type/射频线型号	OD0.81(Black)	
Connector Torque Test/连接器扭力	N/A	
Connector Pull Test/连接器拉力	\geq 0.5Kgf	
Salt Spray/盐雾测试	48 H	
Environmental Specification /环境指标		
Operating temp/工作温度	-40 $^{\circ}$ C ~ +80 $^{\circ}$ C	
Storage temp/存储温度	-40 $^{\circ}$ C ~ +80 $^{\circ}$ C	

2. Antenna Picture/天线图片

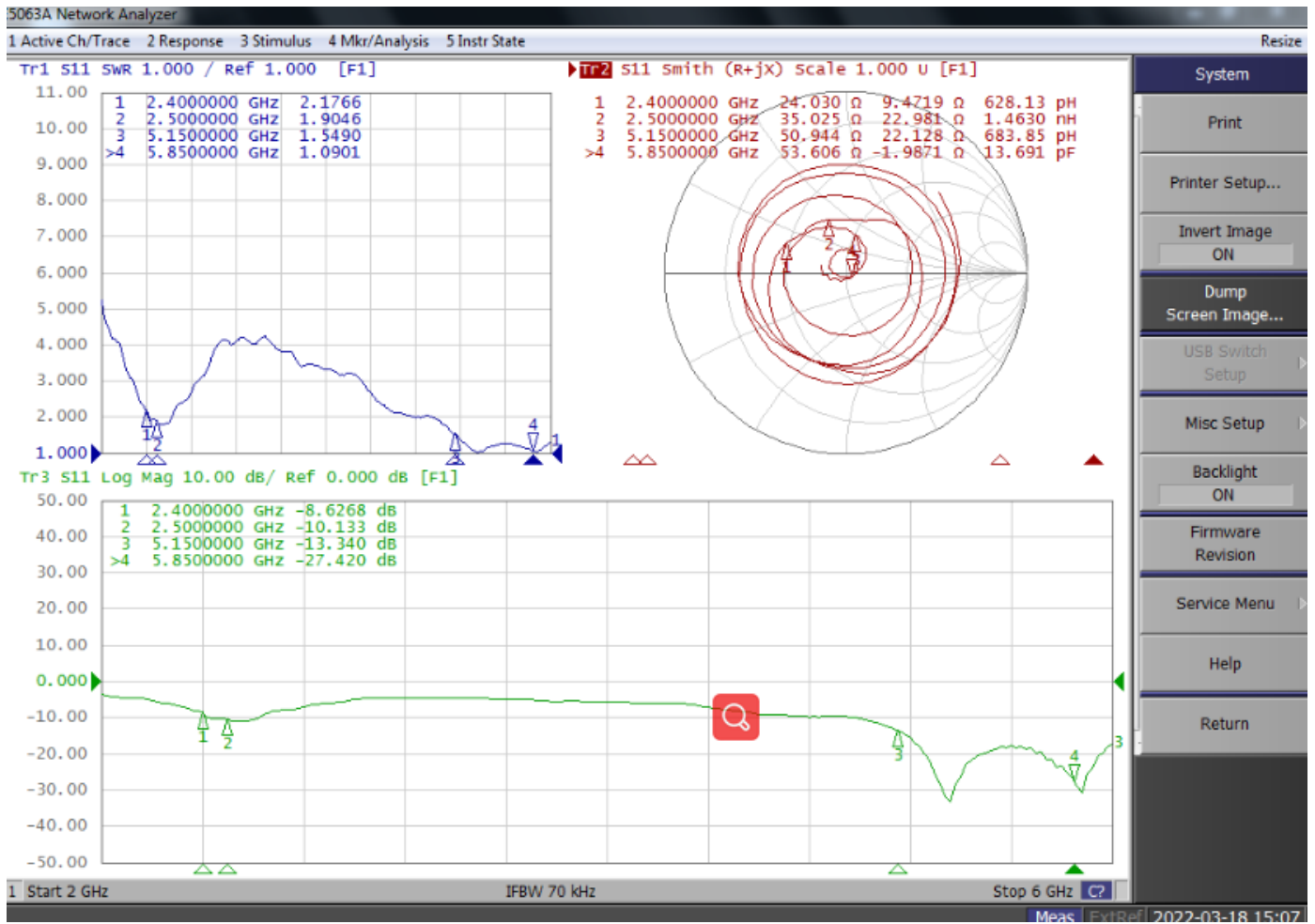


3.DWG/工程图纸



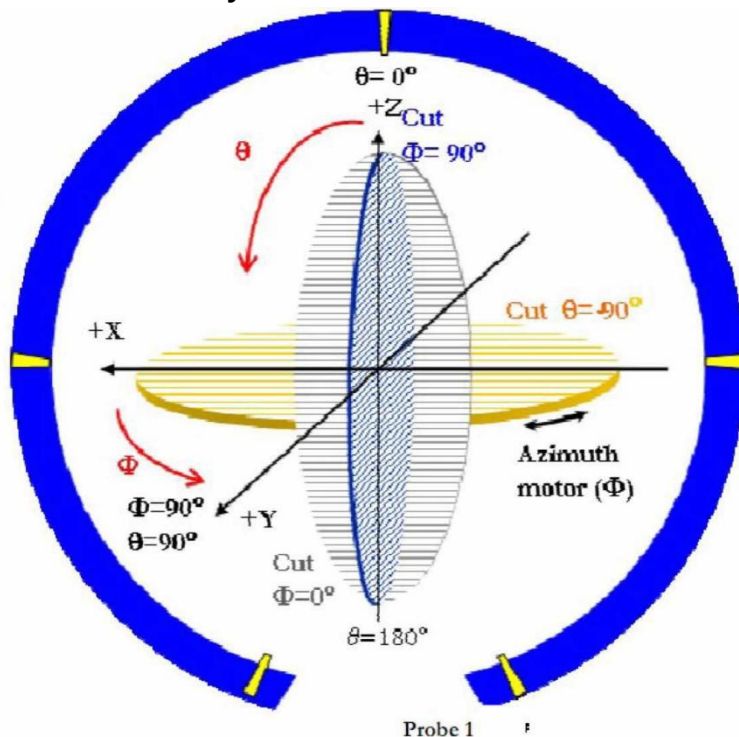
4. Antenna test result/测试结果

4.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比

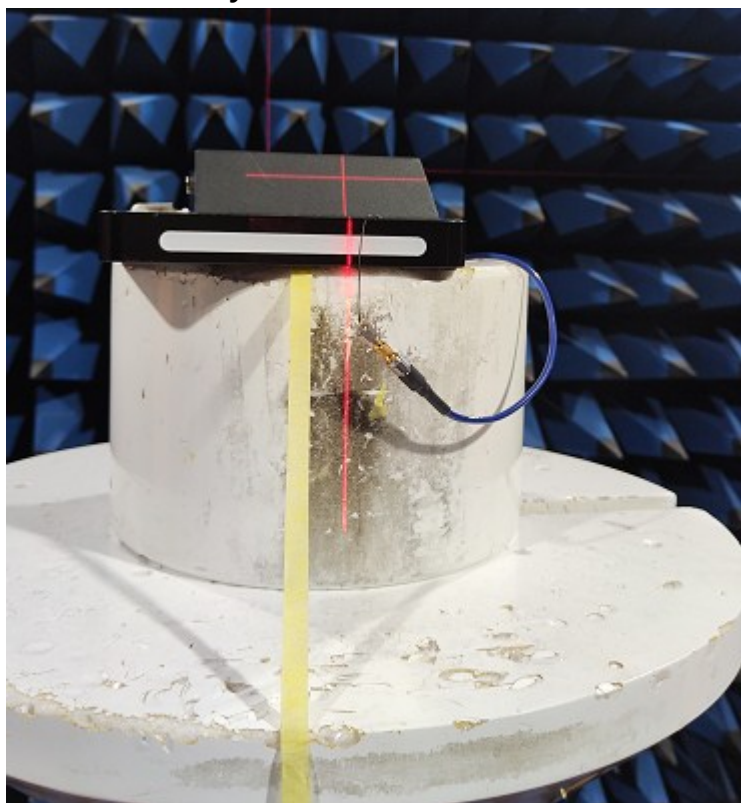


4.2 The gain and total efficiency test/增益和效率测试

4.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐



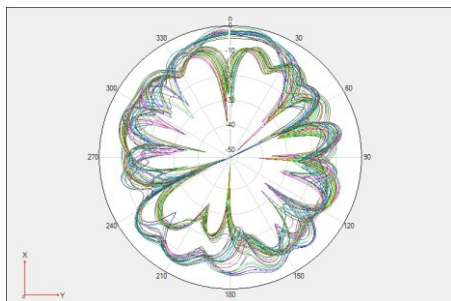
The production test position/天线测试放置位置

4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果

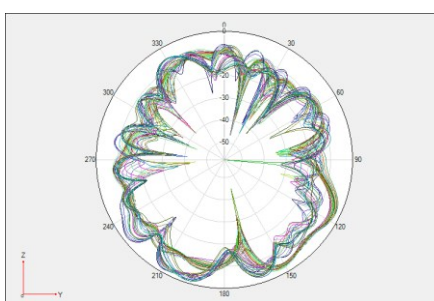
Frequency / MHz	Efficiency / %	Gain/ dB	Frequency / MHz	Efficiency / %	Gain/ dB
2400	37.76	2.30	5150	29.93	3.28
2405	41.40	2.99	5185	31.29	3.35
2410	40.09	2.31	5220	31.59	3.48
2415	40.36	2.67	5255	30.95	3.40
2420	42.56	3.12	5290	30.10	3.03
2425	41.50	2.55	5325	31.41	3.61
2430	42.85	3.02	5360	31.47	3.97
2435	40.46	2.87	5395	35.99	4.33
2440	44.26	2.90	5430	31.59	3.21
2445	38.46	2.64	5465	30.60	3.29
2450	41.69	2.78	5500	29.71	3.36
2455	42.76	2.81	5535	30.49	3.29
2460	41.11	3.07	5570	33.10	3.95
2465	44.06	3.12	5605	33.67	4.08
2470	39.45	2.58	5640	33.73	4.20
2475	43.85	3.44	5675	29.93	3.58
2480	40.64	2.90	5710	31.00	3.88
2485	40.46	3.00	5745	35.44	4.61
2490	41.50	3.63	5780	32.18	4.33
2495	39.36	3.23	5815	30.55	3.64
2500	40.64	3.70	5850	29.77	3.84
AVG	41.23	2.95	AVG	31.65	3.70

4.2.3 The antenna radiation pattern(2D)/天线辐射方向图 (2D)

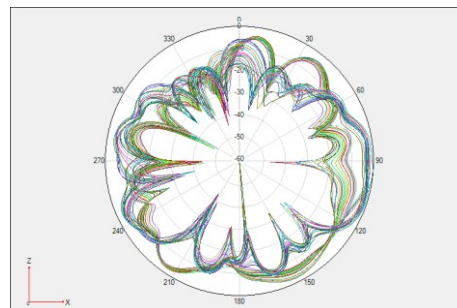
2400MHz-2500MHz , 5150MHz-5850MHz



XOY



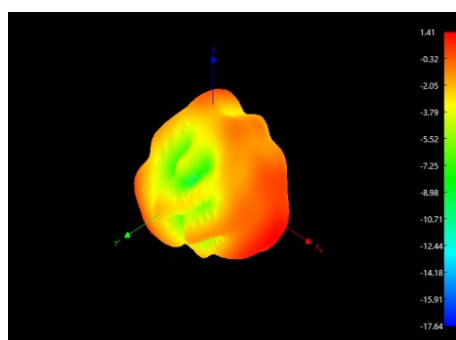
YOZ



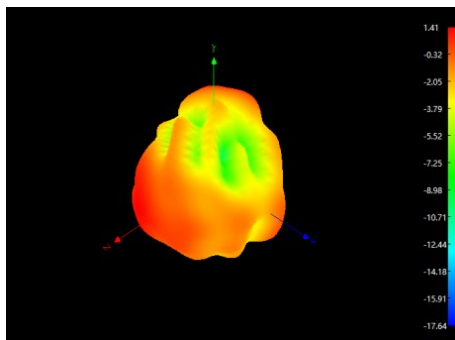
XOZ

4.2.4 The antenna radiation pattern(3D)/天线辐射方向图 (3D)

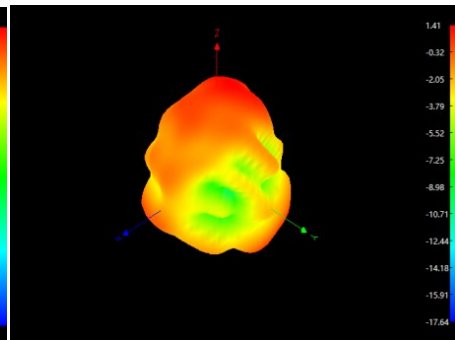
Frequency/频点 2450MHz



XOY

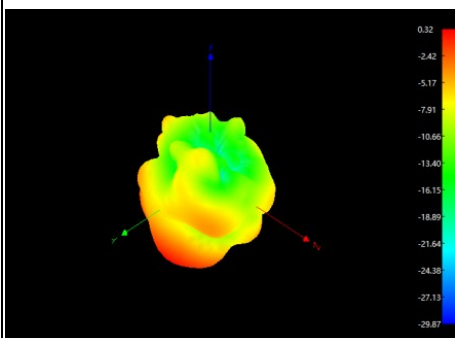


YOZ

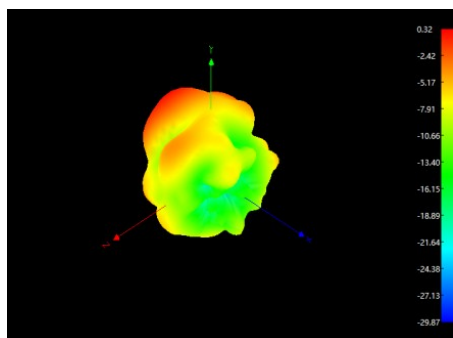


XOZ

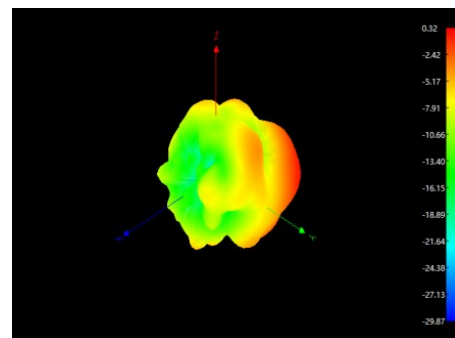
Frequency/频点 5500MHz



XOY



YOZ



XOZ