



2025

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

天线测试报告
Antenna report



TEST REPORT

01 客户名称/Customer：镇泰（中国）电子

02 项目名称/Project：21640

03 立项编号/Project NO：XBY240026

04 工程师/Engineer：何国荣
电话/Phone：18123875607

PART 1

测试报告版本/Report version



日期 Date	天线版本 Antenna version	主板版本 PCB version	变更描述 Description of Change
2025-2-17			加强样板天线测试报告

PART 2

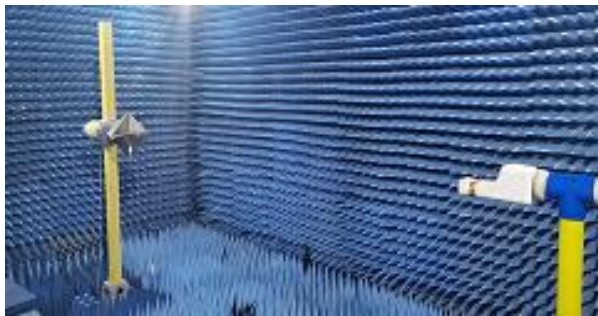
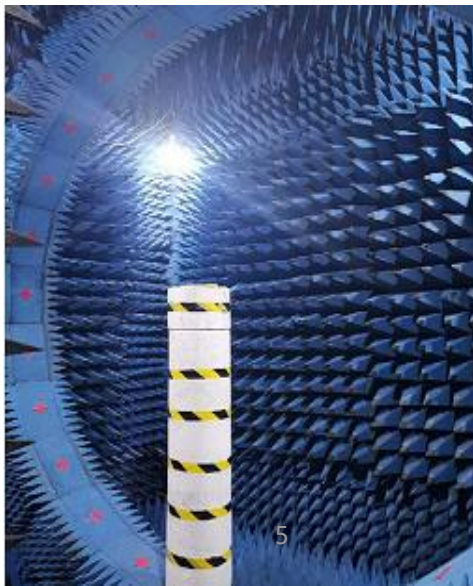
项目信息/Project brief

NO	ITEMS	DETAILS
1	工作频段 Operating band	915MHz
2	频率范围 Frequency band	900-930Mhz
3	天线类型 Antenna type	MAIN: monopole
4	天线材质及实现形状 Material and implementation shape	外置天线 External antenna

PART 3

Test system and equipment

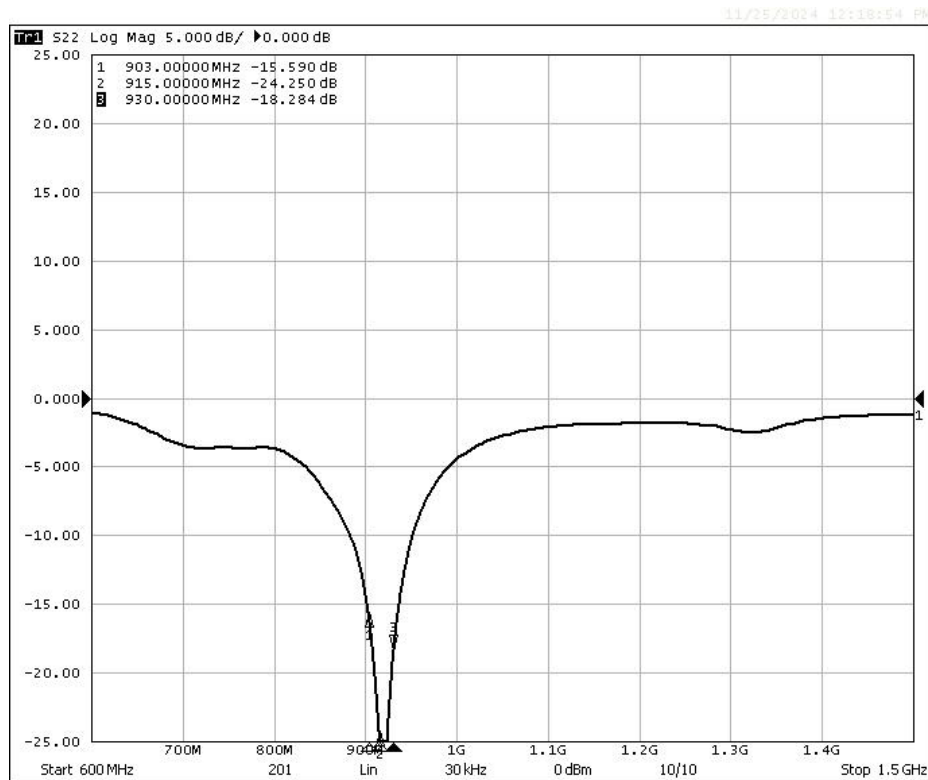
	测试项目/Test items	设备/equipment
1: S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2: 耦合功率测试 Active test	1. 发射功率 Transmitting power 2. 接收灵敏度 Receiving sensitivity	综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3: 辐射模式与增益 Radiation mode and gain	1. 辐射模式 Radiation mode 2. 天线增益 Gain	1. 暗室/Shielding room: 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer: HP 8753D



PART 4

无源驻波图/ Passive Standing Wave Diagram

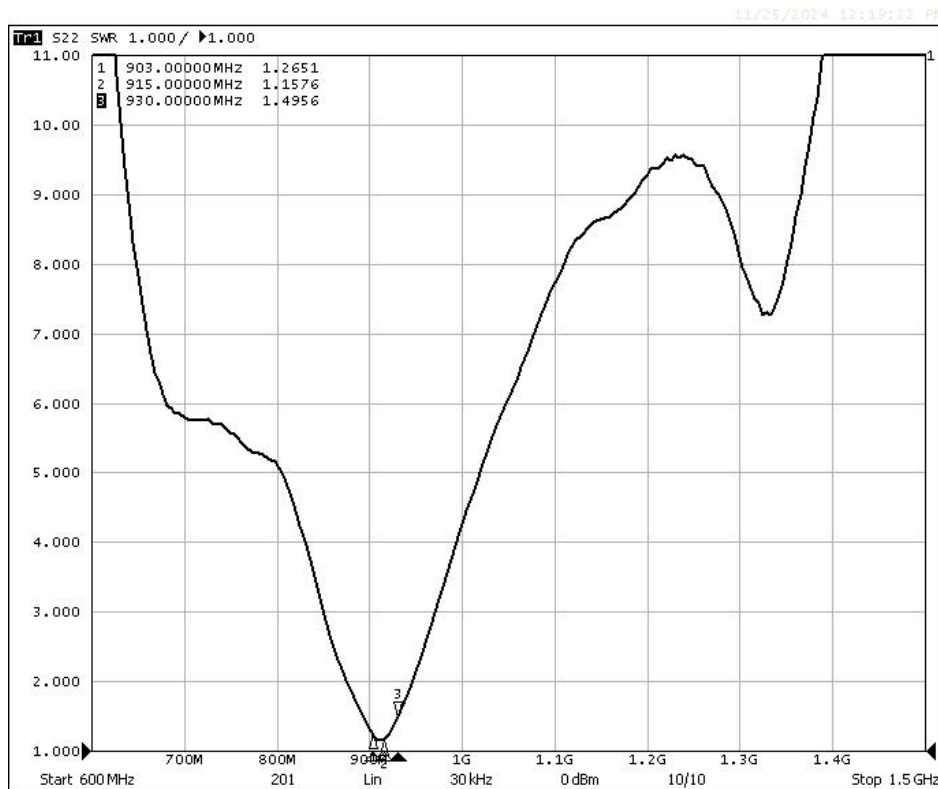
(LOG)



PART 4

无源驻波图/ Passive Standing Wave Diagram

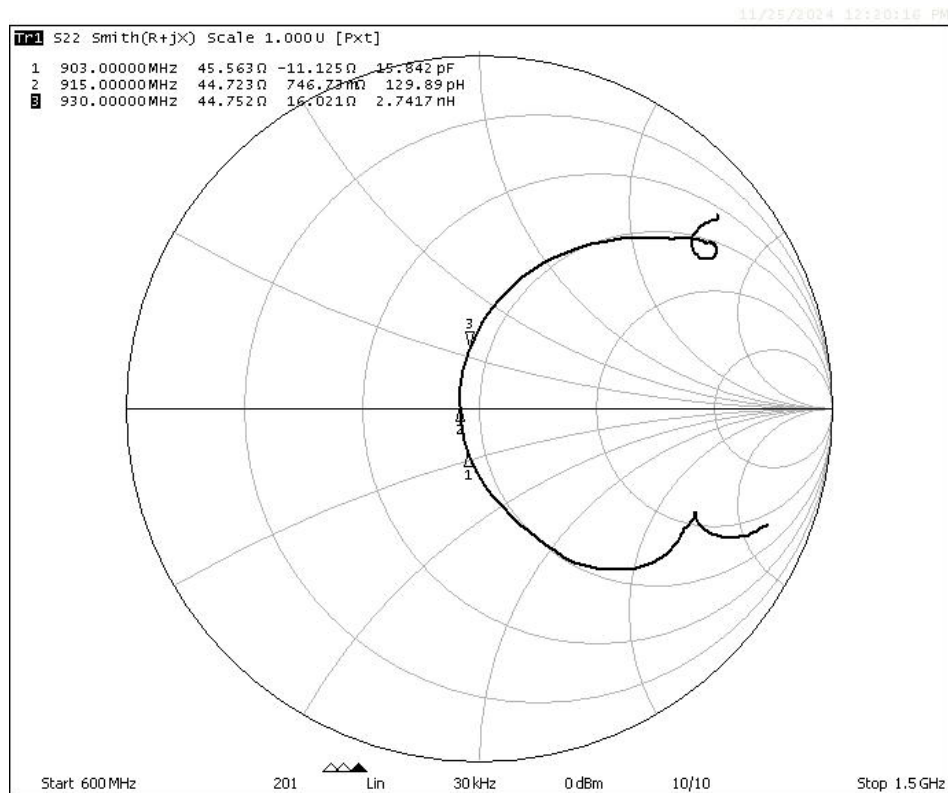
(SWR)



PART 4

无源驻波图/ Passive Standing Wave Diagram

(SMITH)



(效率增益)

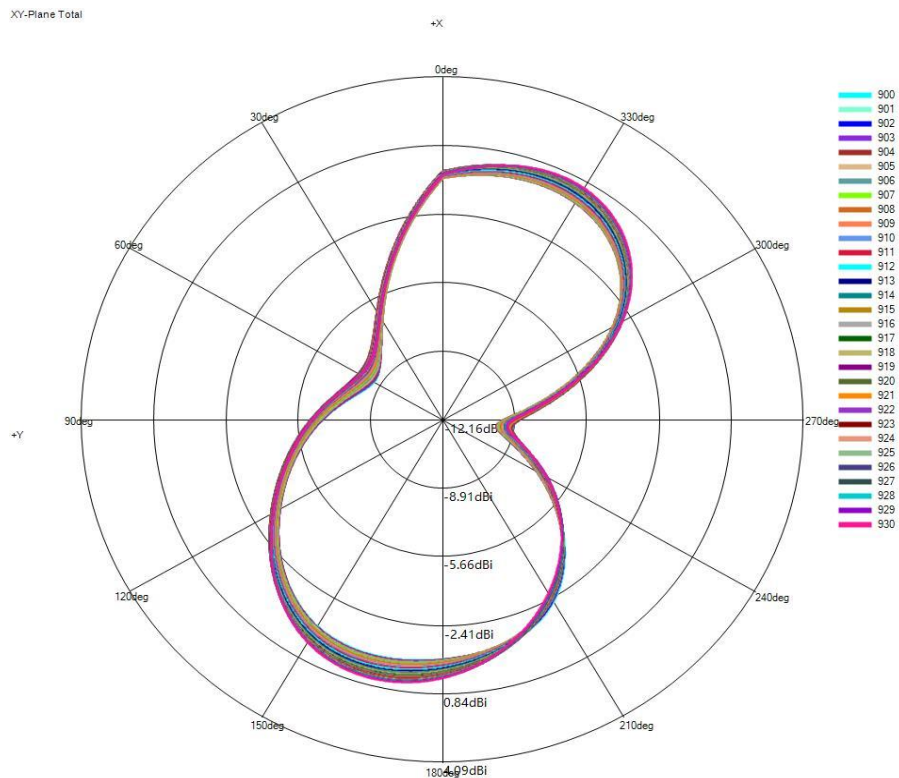
Freq(MHz)	Gain	Efficiency _Pcent
900	4.07	77.65
901	4.06	78.09
902	4.04	78.37
903	4.01	78.51
904	3.98	78.81
905	3.96	79.24
906	3.93	79.44
907	3.89	79.84
908	3.83	80.02
909	3.79	80.36
910	3.76	80.67
911	3.73	80.78
912	3.69	80.94
913	3.67	81.04
914	3.64	81.15

915	3.63	81.09
916	3.61	81.06
917	3.61	81.15
918	3.6	81.04
919	3.57	80.94
920	3.55	80.84
921	3.52	80.73
922	3.49	80.66
923	3.45	80.2
924	3.44	79.9
925	3.44	79.91
926	3.42	79.47
927	3.42	79.22
928	3.4	78.82
929	3.39	78.53
930	3.35	78

PART 6

方向图/ Directions graph

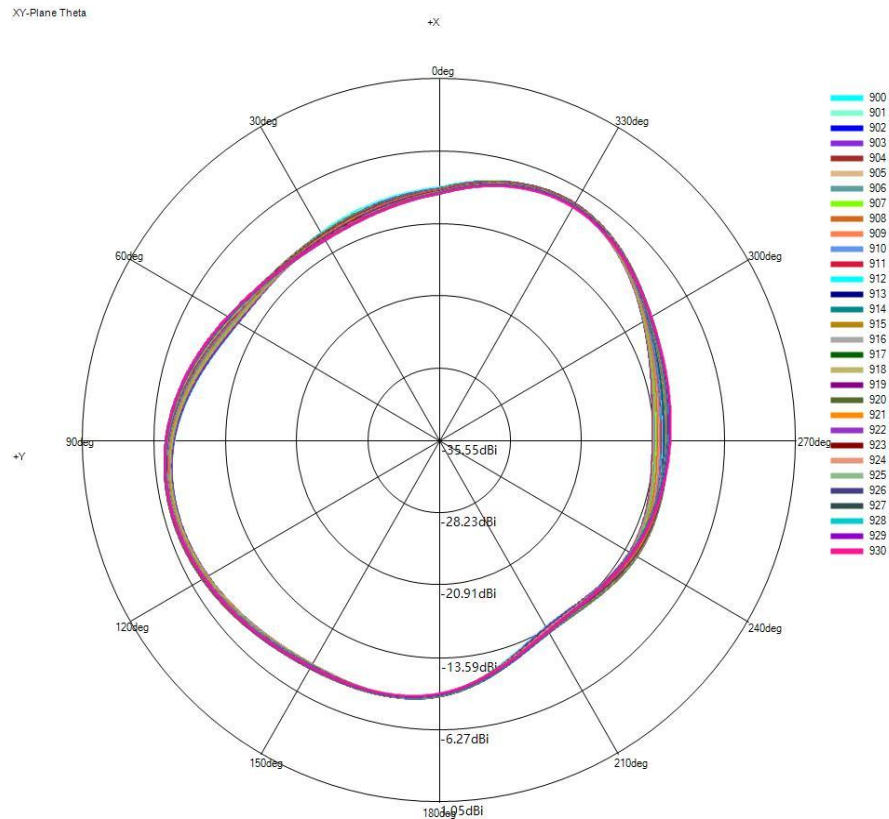
(XY-Plane Total)



PART 6

方向图/ Directions graph

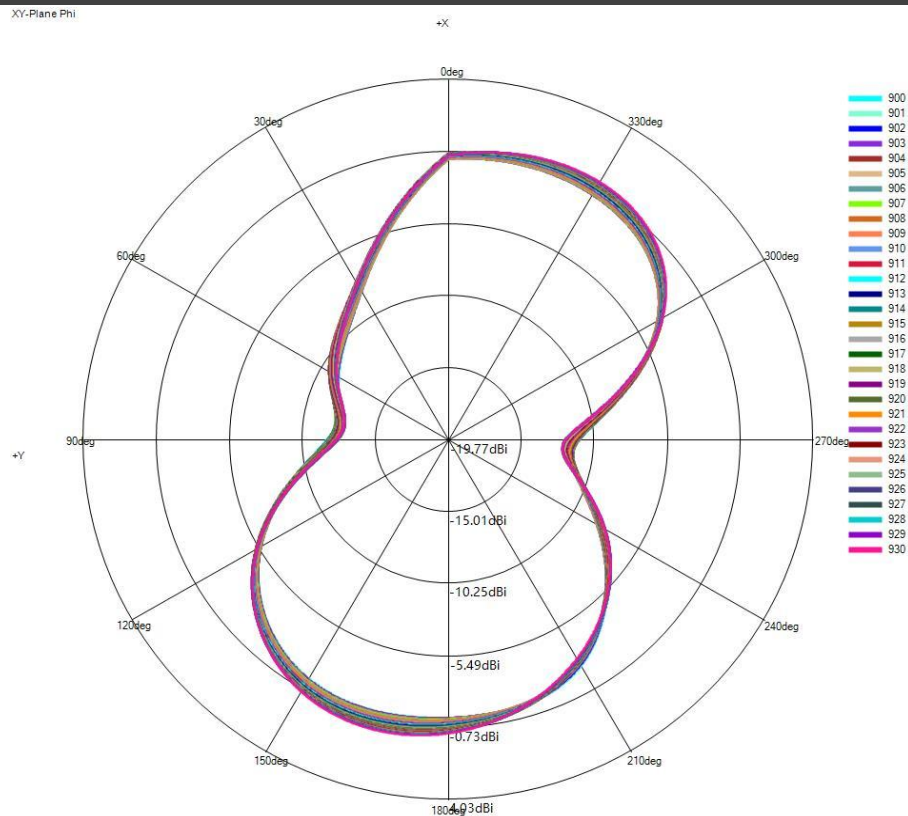
(XY-Plane Theta)



PART 6

方向图/ Directions graph

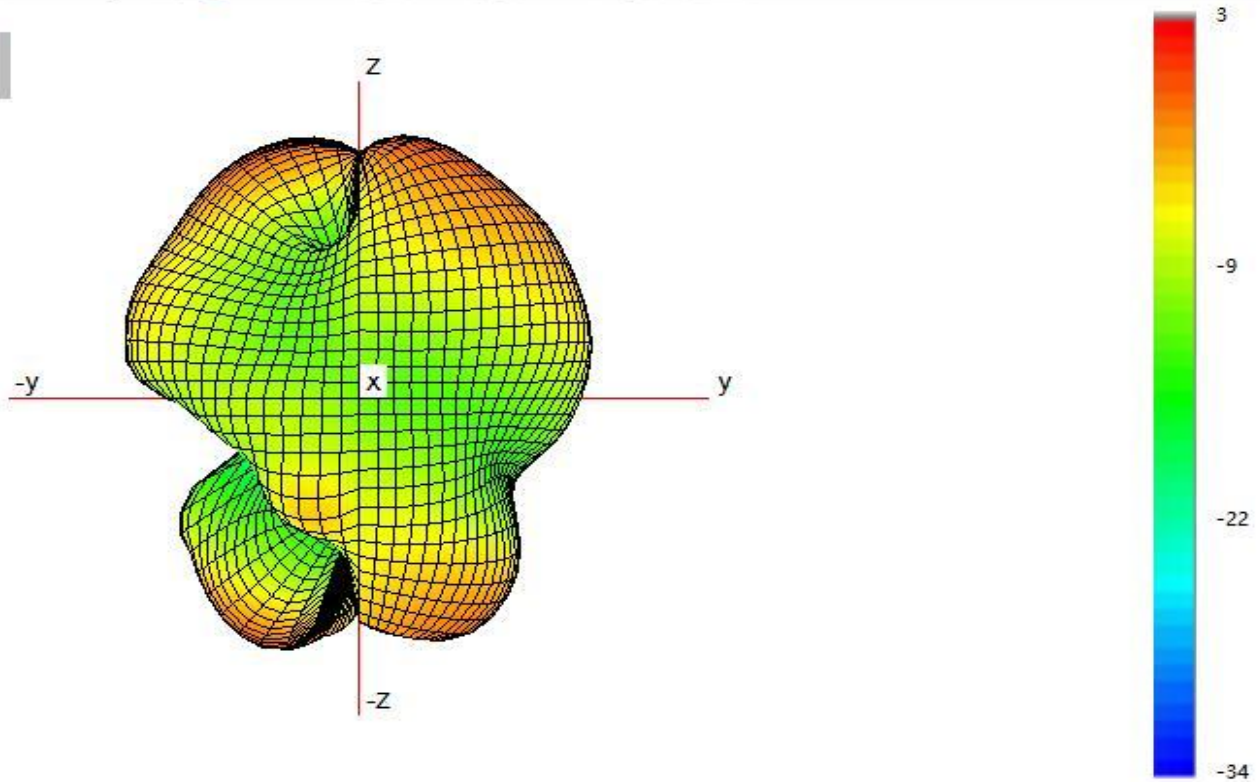
(XY-Plane Phi)



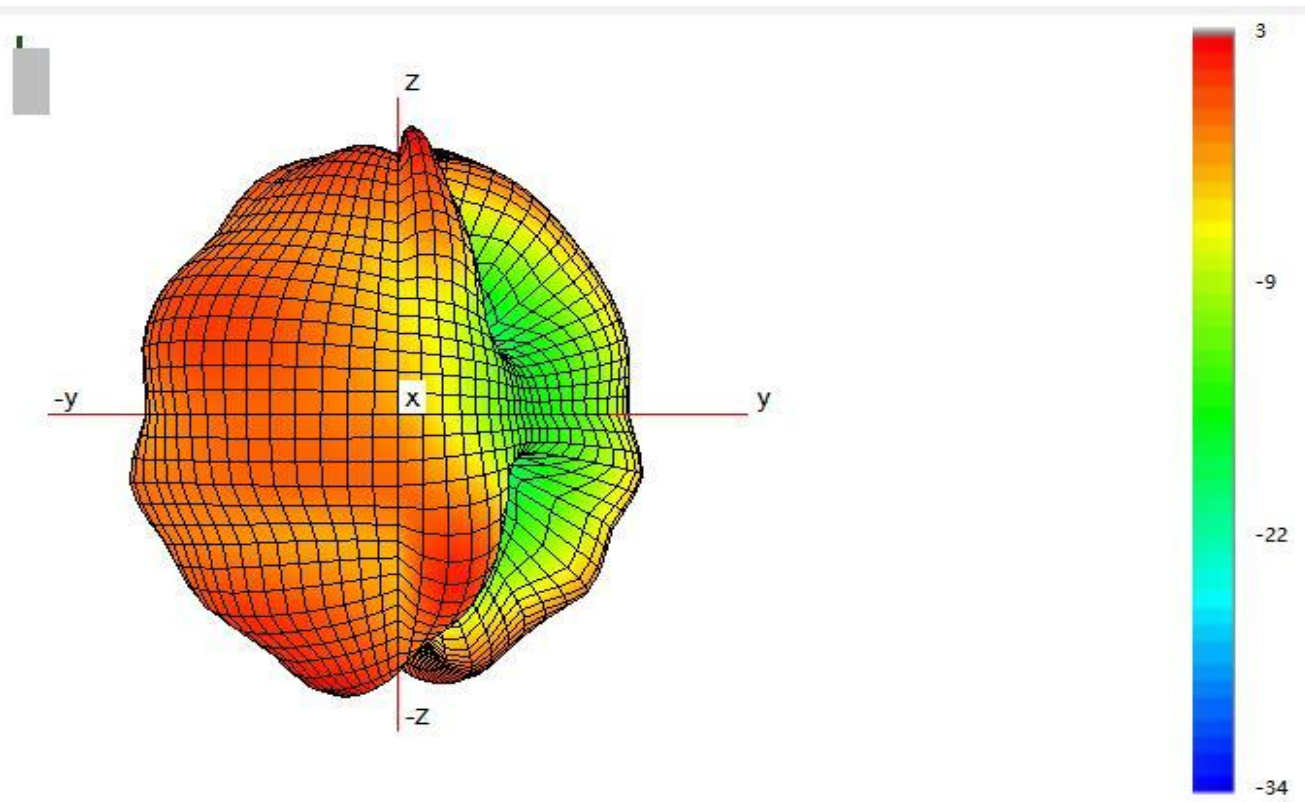
PART 7

苹果图/ Apple chart

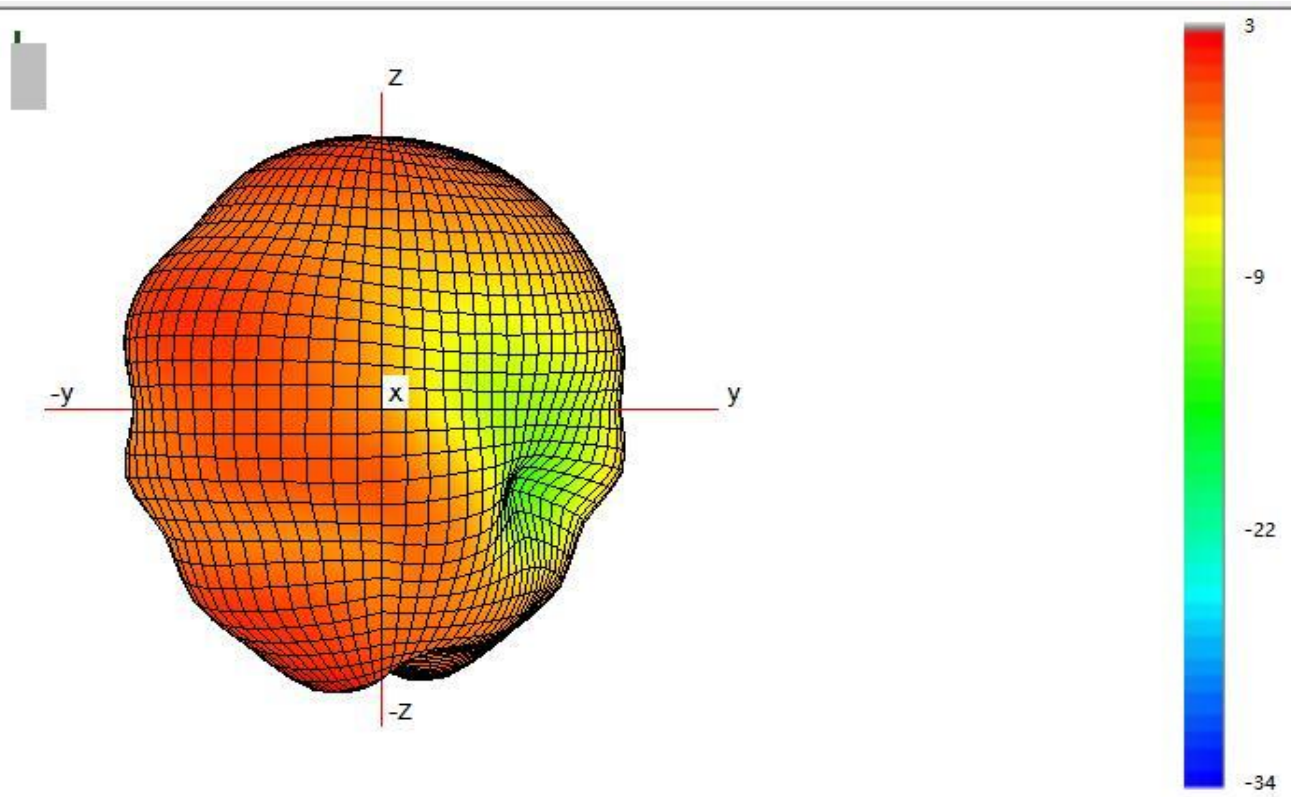
(Freq (MHz) 915)



(Freq (MHz) 915)



(Freq (MHz) 915)





2025

Thanks!

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