

	Date01/07/2026	Version No.V1.0
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深圳市榕盛源科技有限公司
Shenzhen Rongshengyuan Technology Co., Ltd

产品规格书
PRODUCTSPECIFICATION

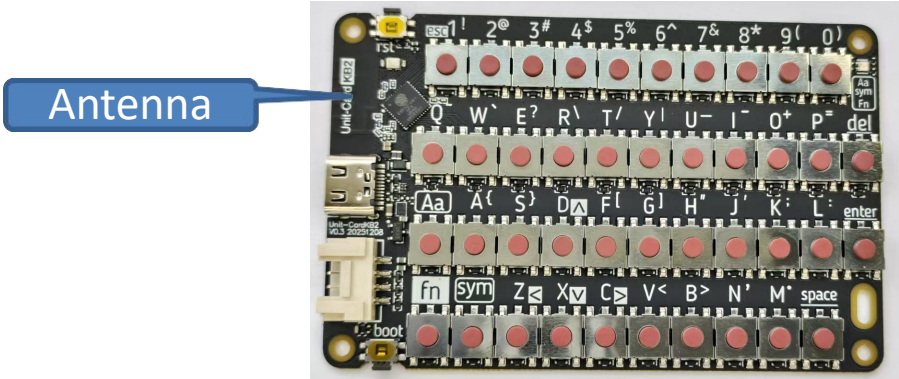
客户 Customer	M5Stack Technology Co., Ltd
客户编码 Customer's part number	
产品料号 Product Material Code	Unit CardKB2
工作频段 Working Band	2400-2500MHz
发行日期 Issue Date	2026-01-07
发行版本 Release Version	V1.0
作者 Author	

1 产品技术指标 (PRODUCT TECHNICAL SPECIFICATION)

电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2500
频带宽度 Bandwidth (MHz)	100
输入阻抗 Input Impedence (Ω)	50
电压驻波比 VSWR	<3
增益 Gain (dBi)	2.49
极化形式 Polarization Type	垂直极化 Vertical
机械指标 Mechanical Specifications	
天线长度 Antenna Length (mm)	11.4*3.5mm
天线类型 Antenna Type	PCB Antenna
工作温度 Operatin Temp ($^{\circ}\text{C}$)	-30~70
储存温度 Storing Temp($^{\circ}\text{C}$)	-30~70

2 产品电性能参数 (PRODUCT ELECTRICAL PERFORMANCE PARAMETER)

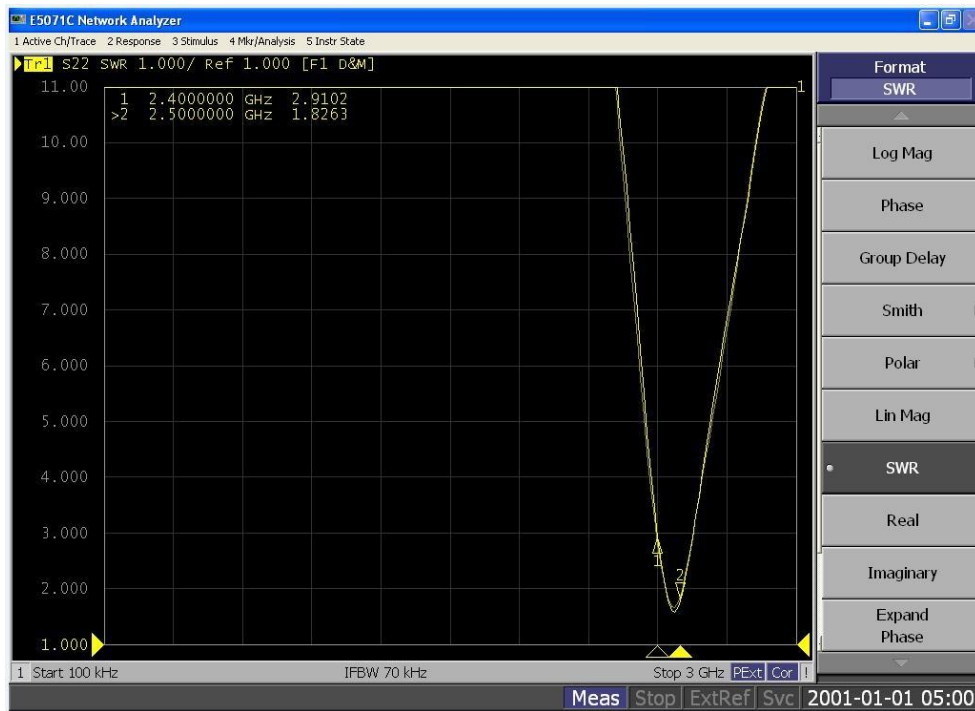
1. 产品图片 (Product picture)



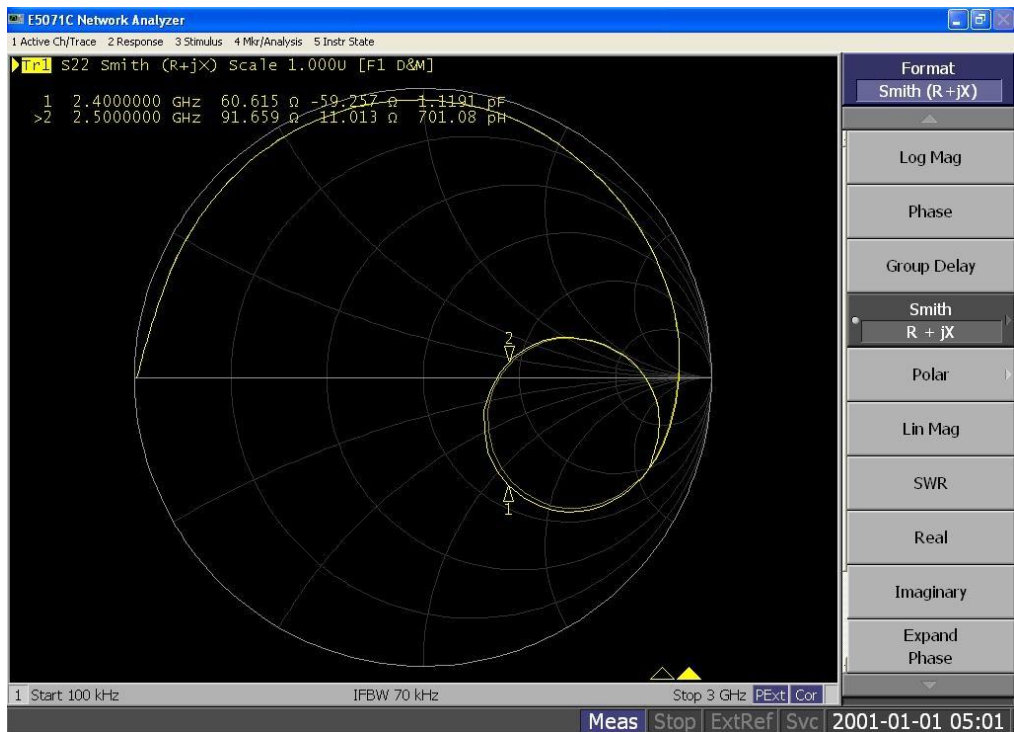
2.2 反射损耗 (S11)



2.3 驻波比 (VSWR)



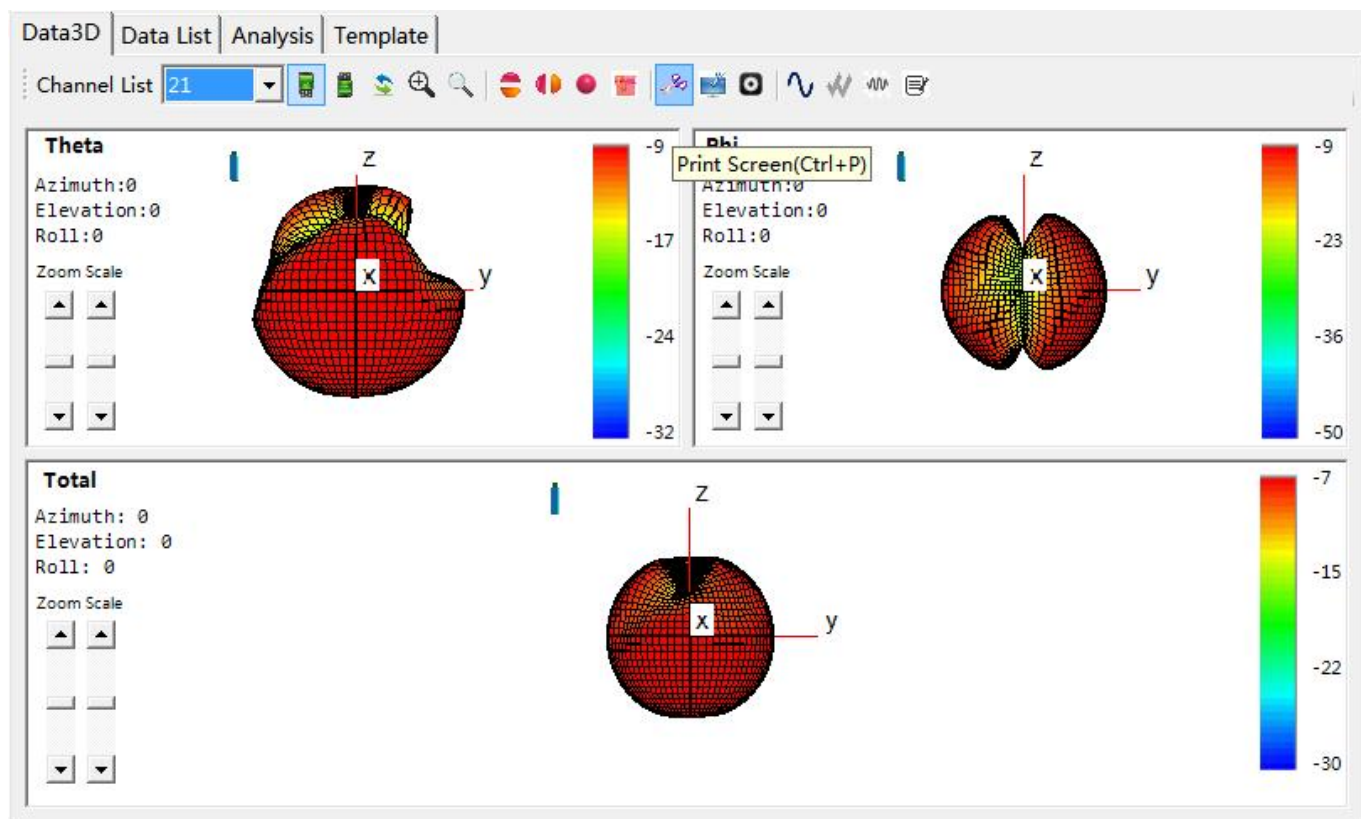
2.4 史密斯图 (Smith Chart)



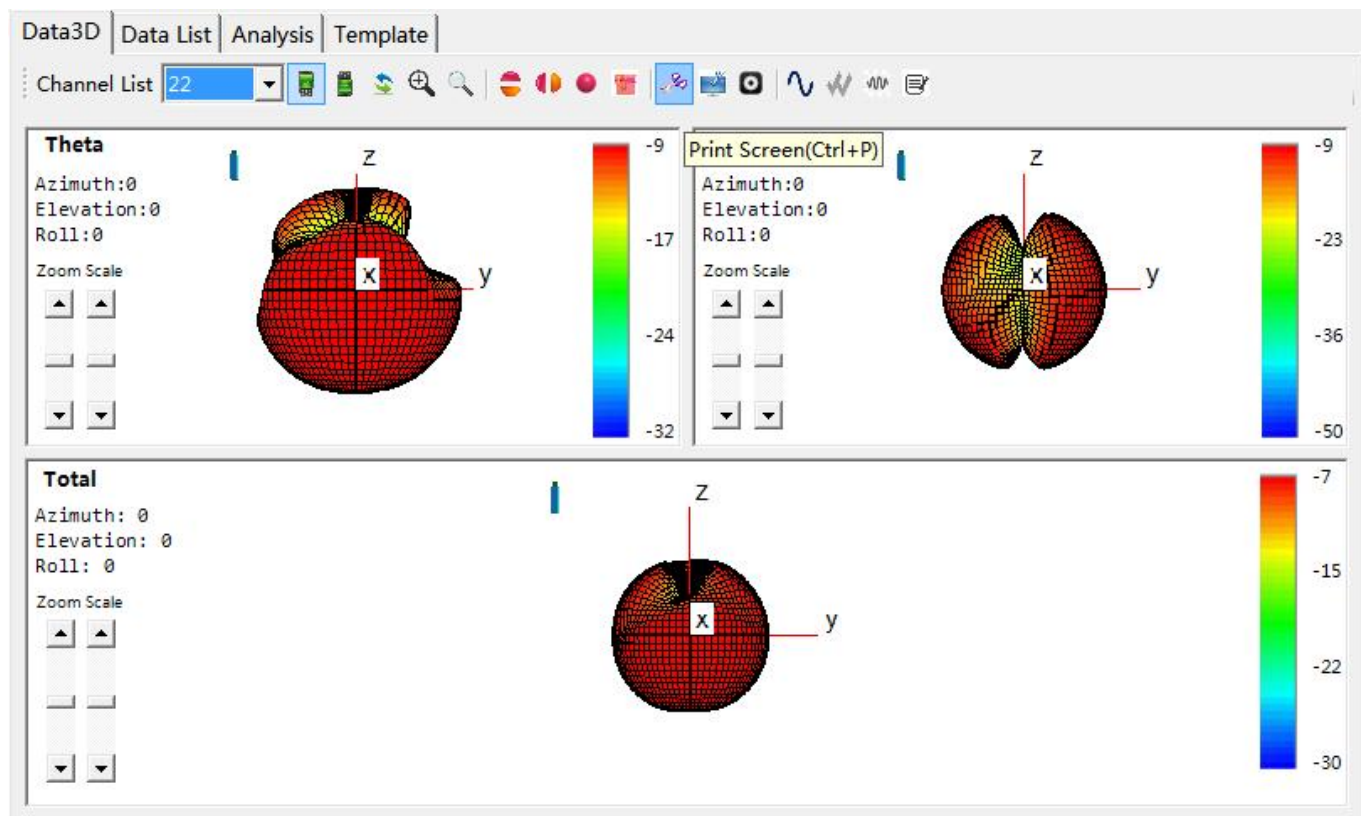
2.5 效率、增益 (Efficiency/Gain)

Fre. (MHz)	Gain(dBi)	Eff. (dB)	Eff. (%)
2400	0.18	-3.62	43.41
2410	0.69	-3.12	48.70
2420	0.34	-3.52	44.49
2430	0.18	-3.53	44.40
2440	1.05	-2.71	53.53
2450	1.79	-2.05	62.31
2460	1.97	-2.03	62.61
2470	2.21	-2.06	62.30
2480	2.32	-1.97	63.53
2490	2.32	-1.74	66.93
2500	2.49	-1.59	69.30

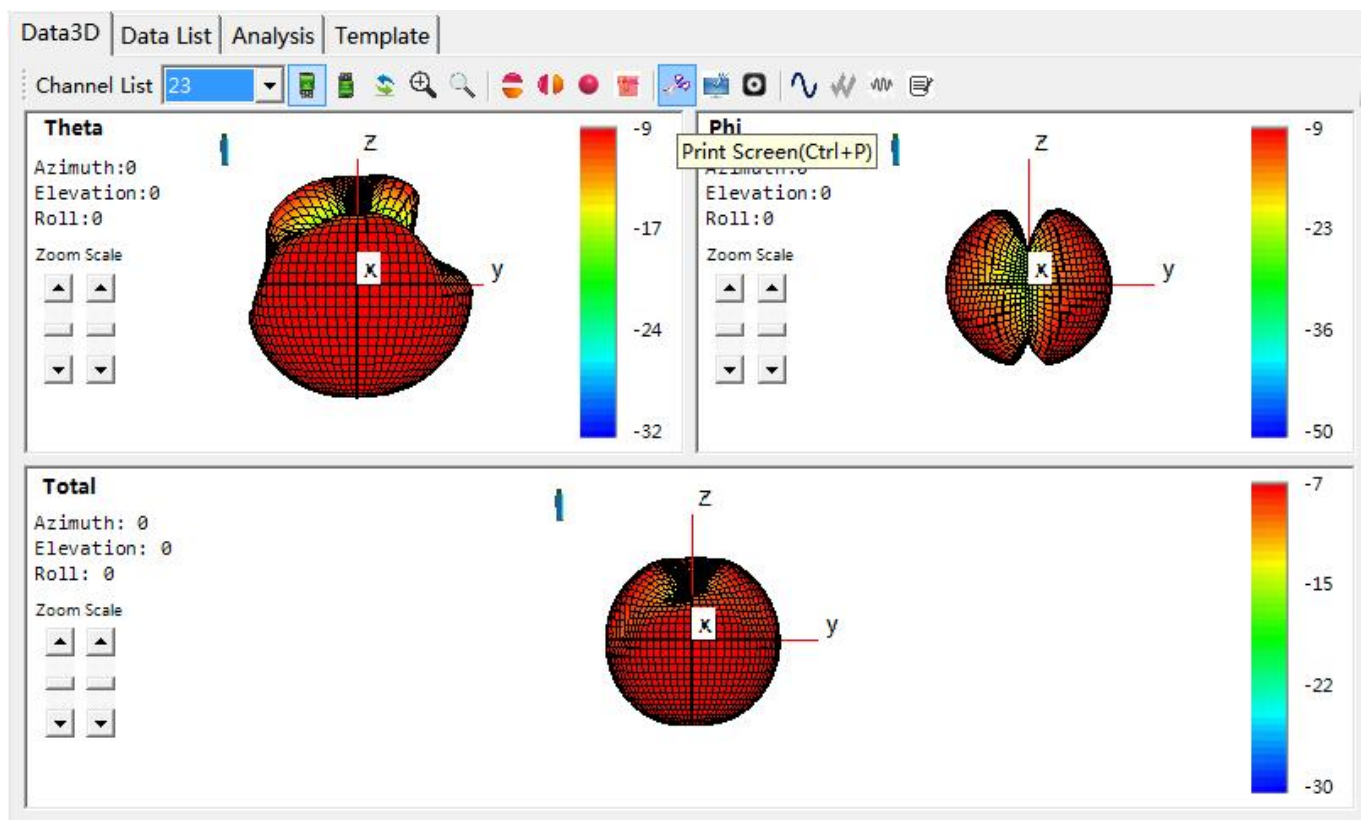
2.6 辐射方向图 (Radiation Pattern)



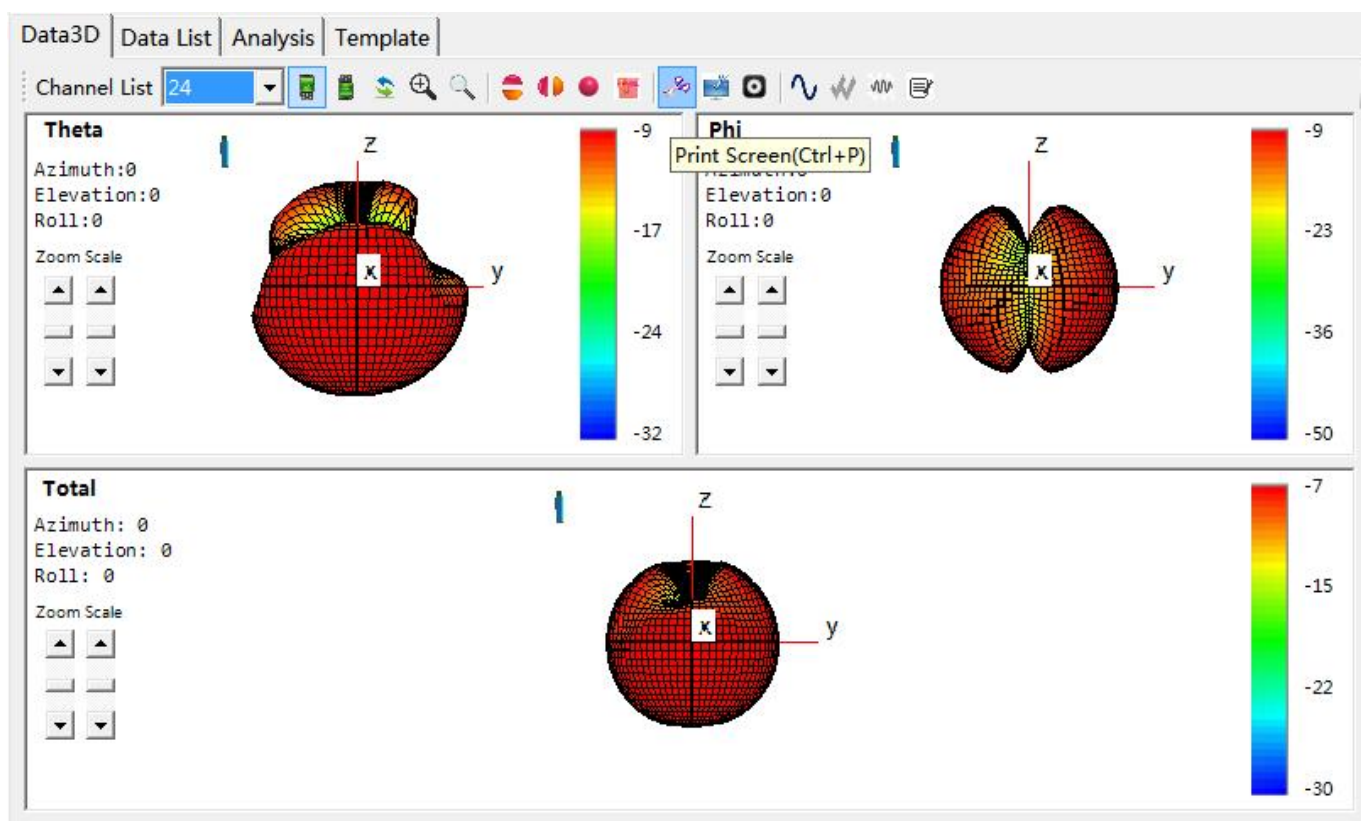
2400MHz



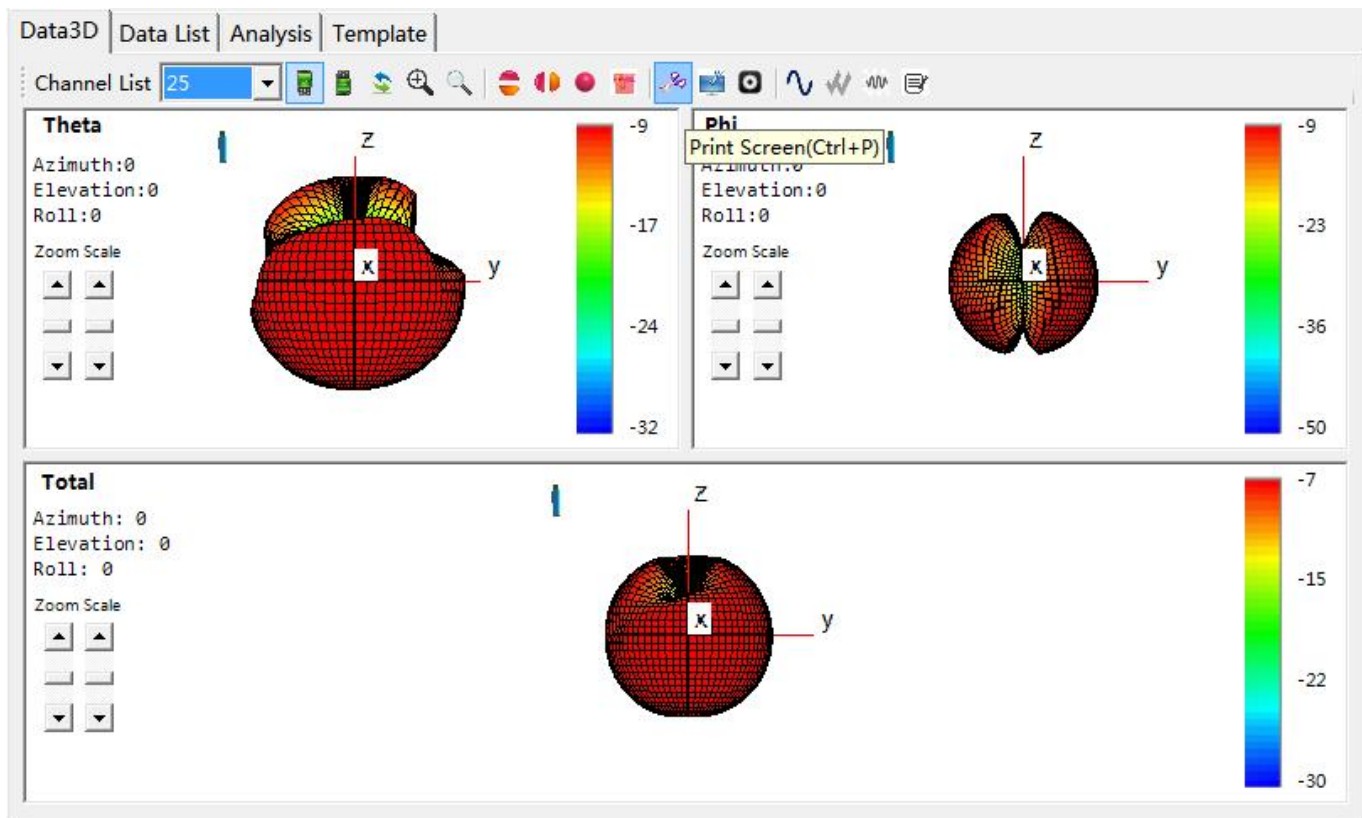
2410MHz



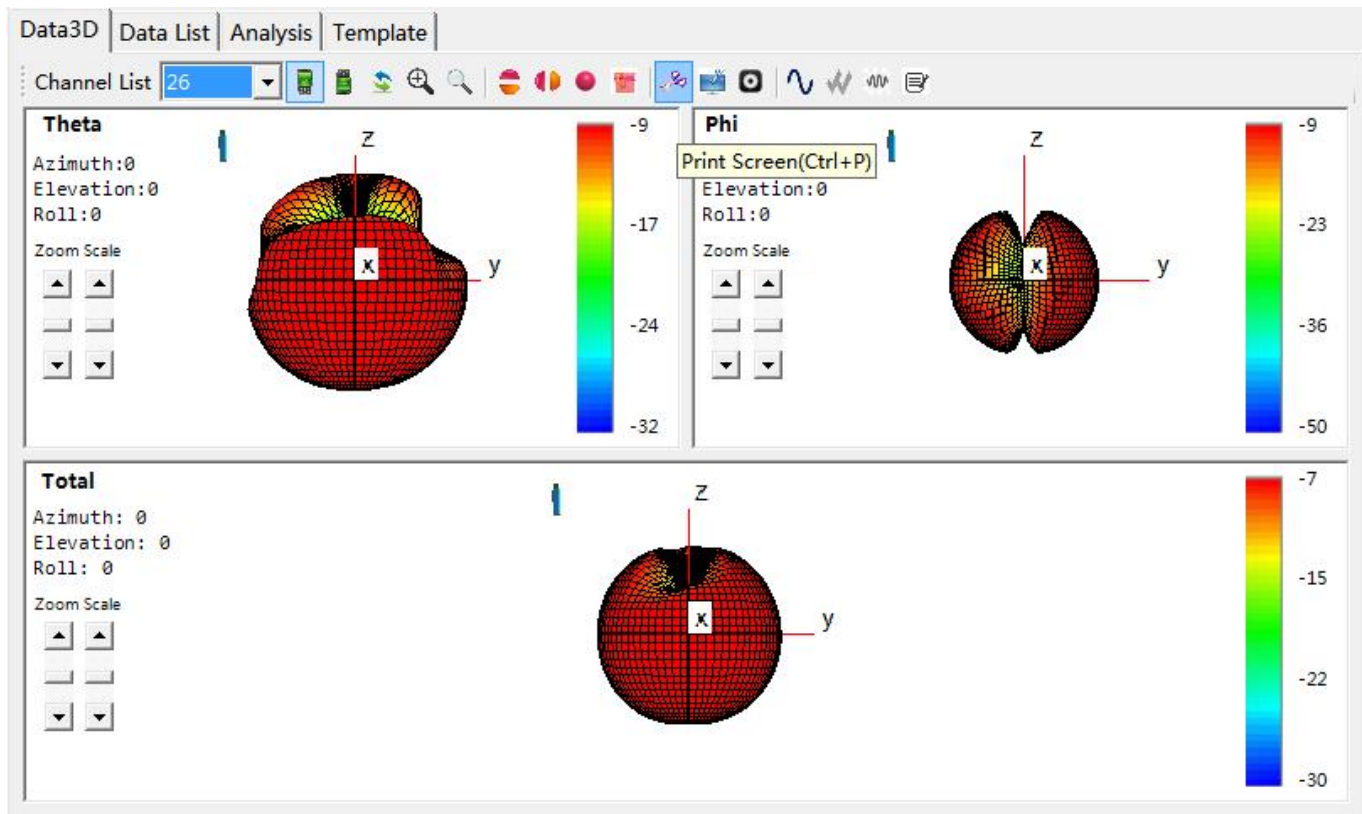
2420MHz



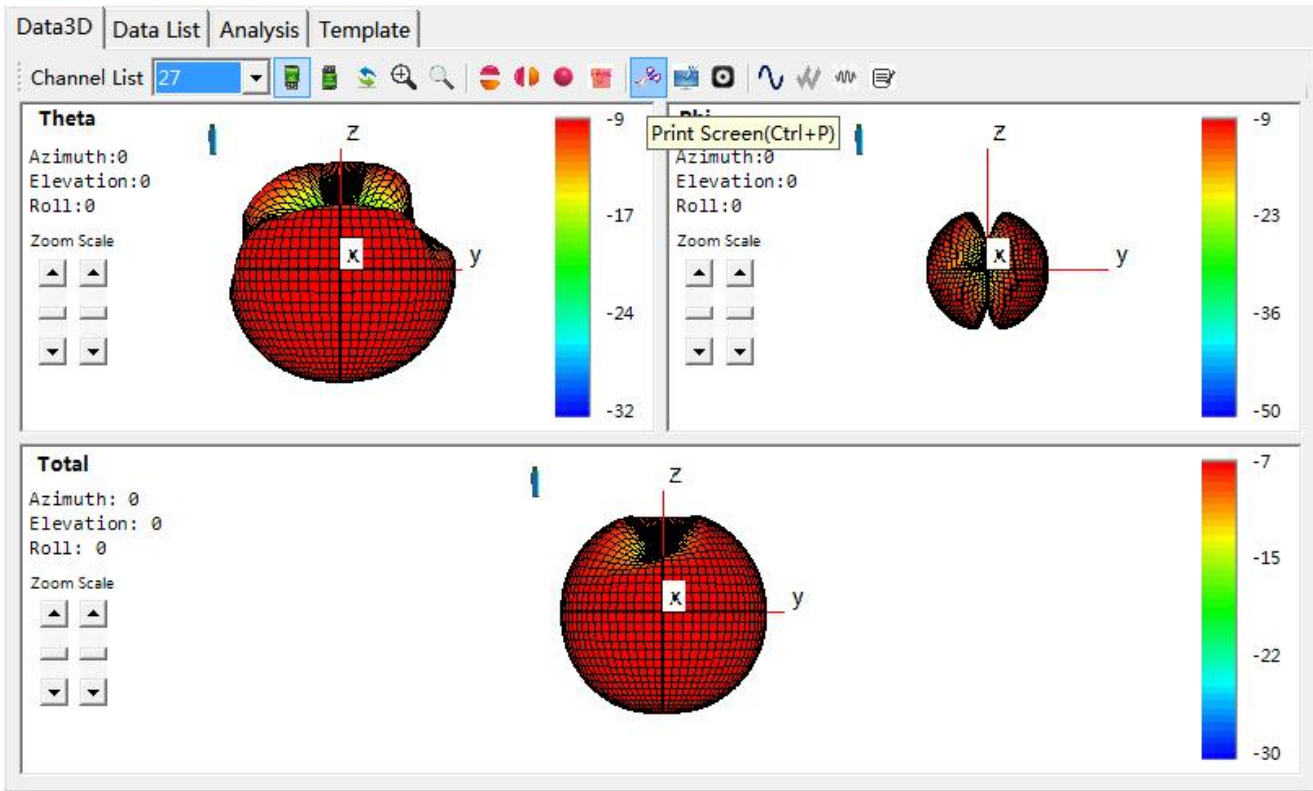
2430MHz



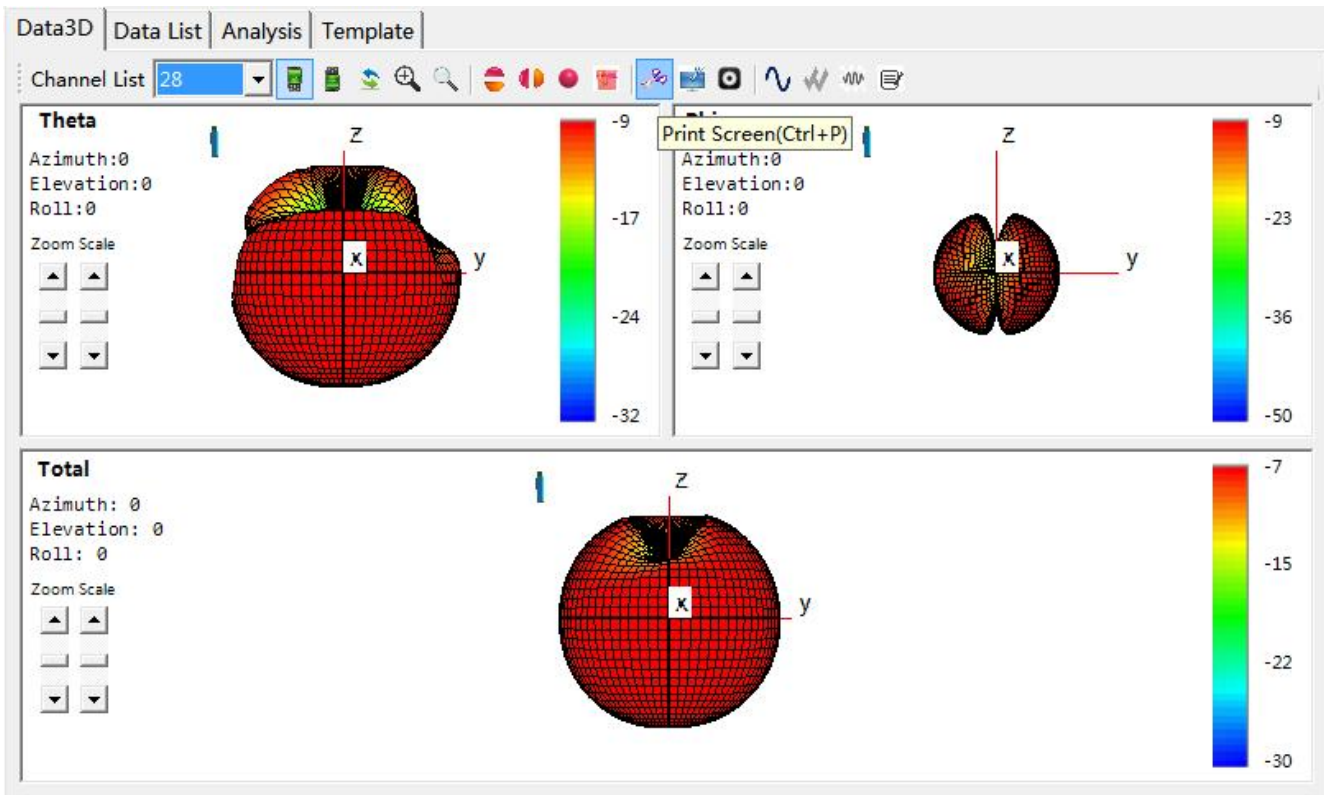
2440MHz



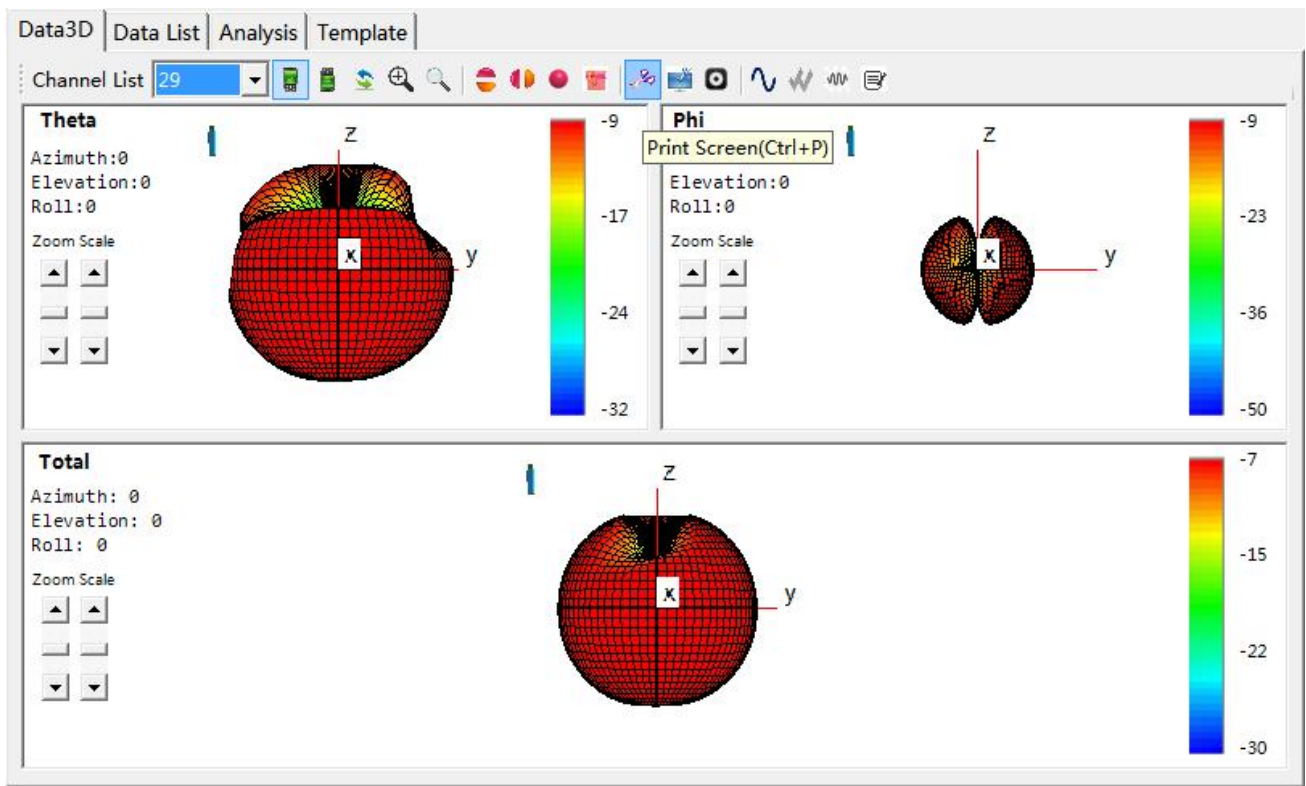
2450MHz



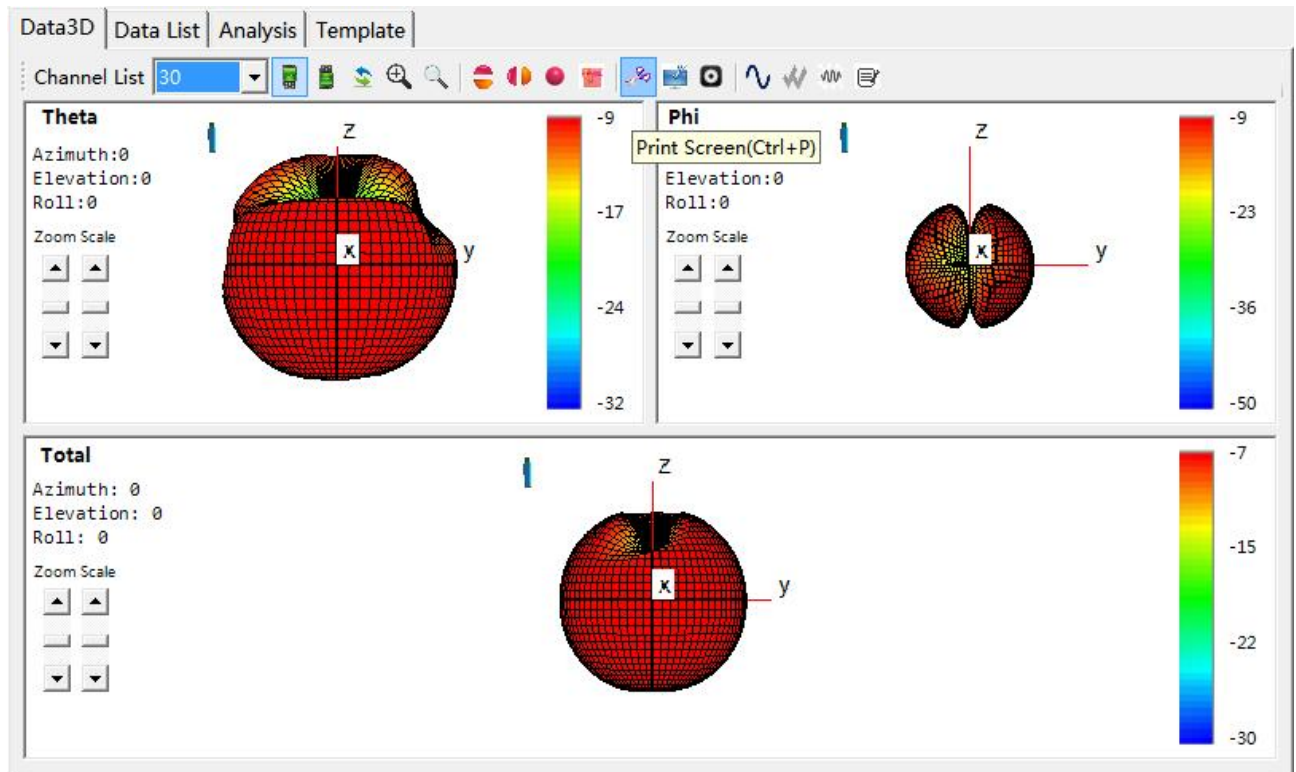
2460MHz



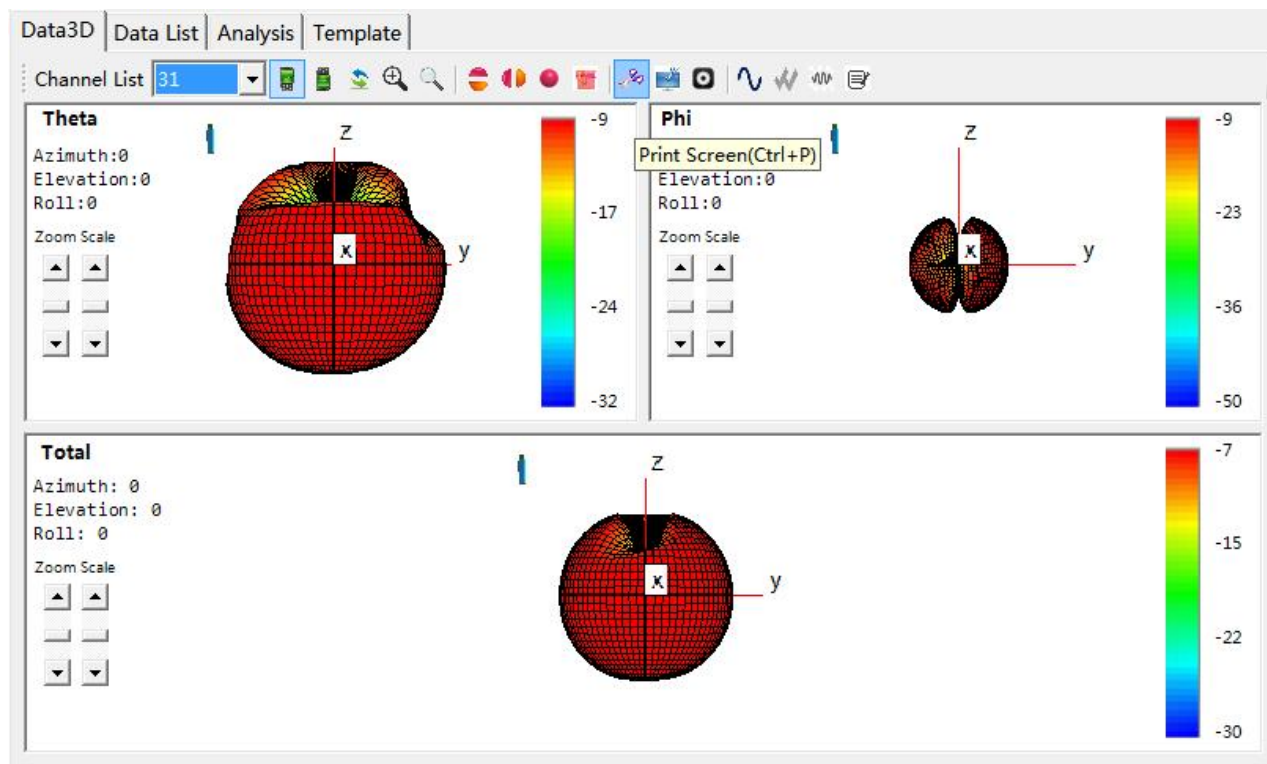
2470MHz



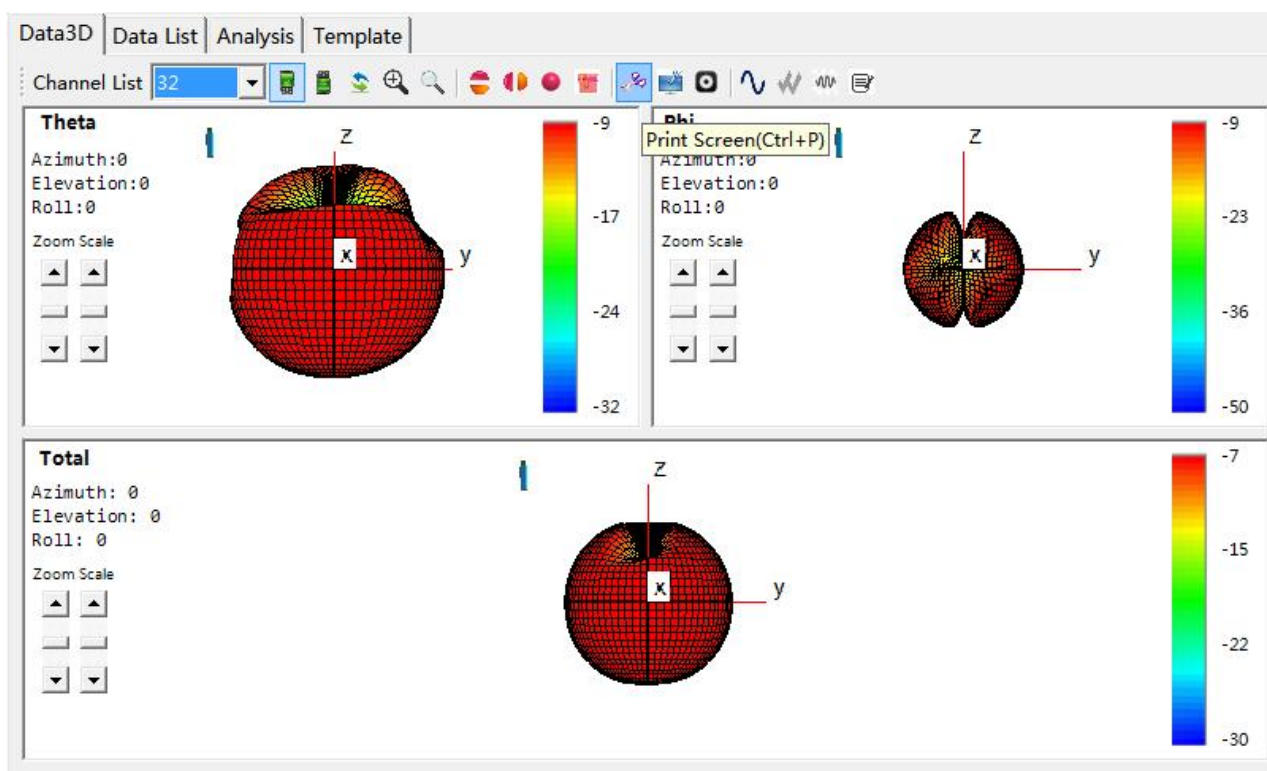
2460MHz



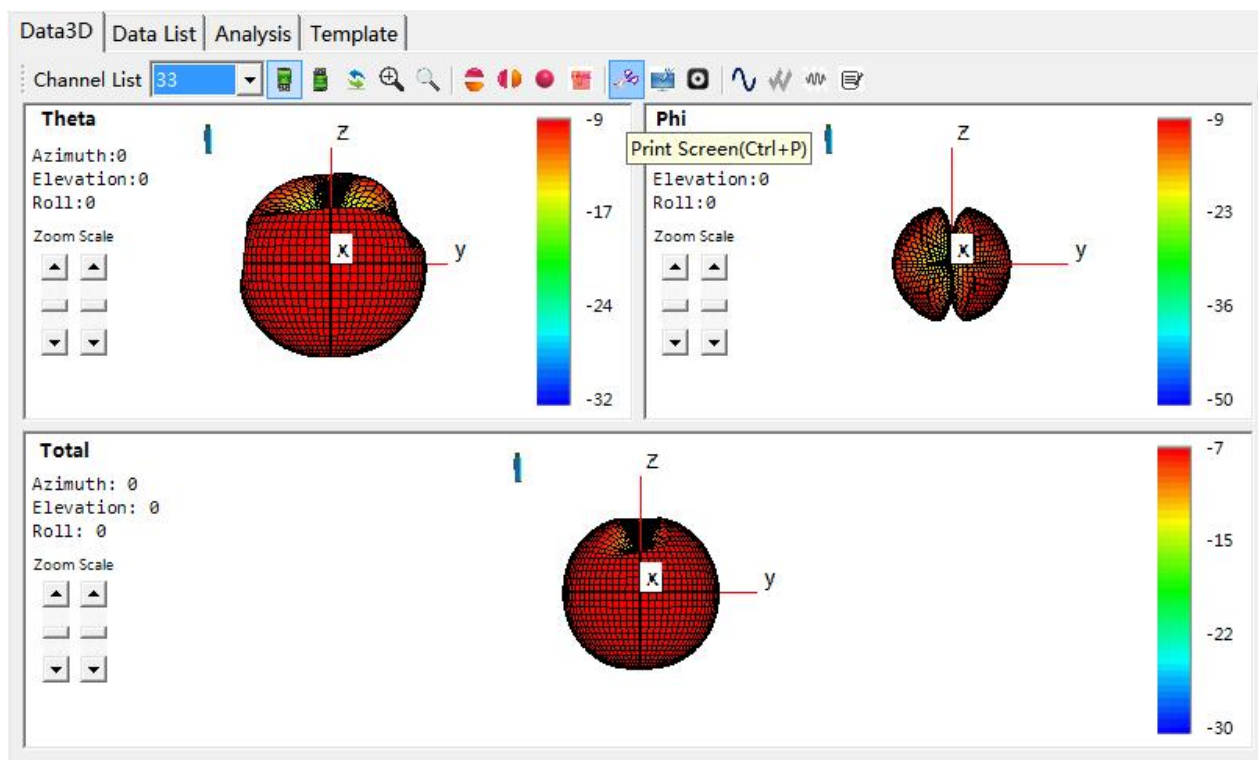
2470MHz



2480MHz

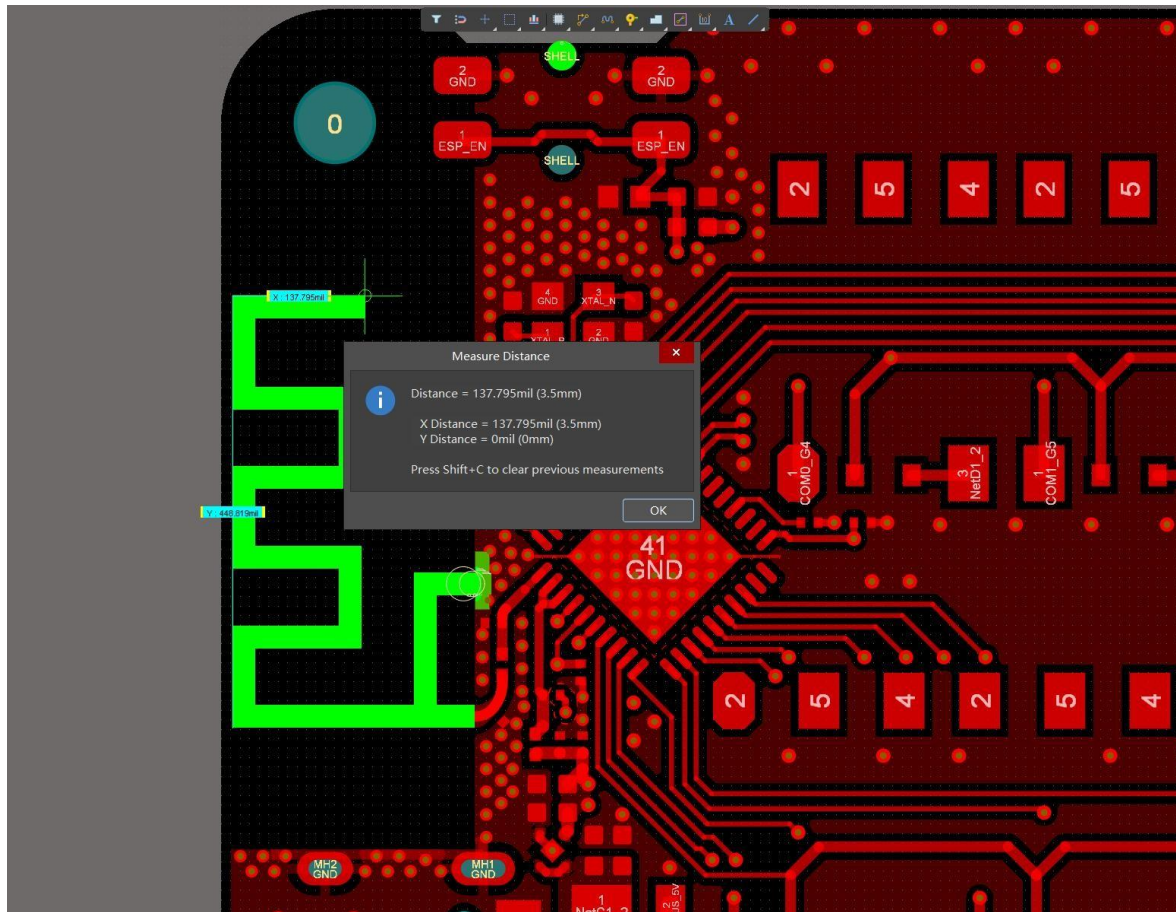


2490MHz



2500MHz

3 产品尺寸 (Product dimensions)



UNIT :11.4*3.5mm