

规格书

客户名称: _____

客户料号: _____

科信料号: _____

规格描述: 2.4G弯头黑色小辣椒天线 /L=50MM/弯头（SMA-J）

制作日期: 2023年03月08日

出厂确认:

部 门	审 核	批 准
射频部	刘景雄	李斌
结构部	谢东展	李斌
品质部	王飞	李斌

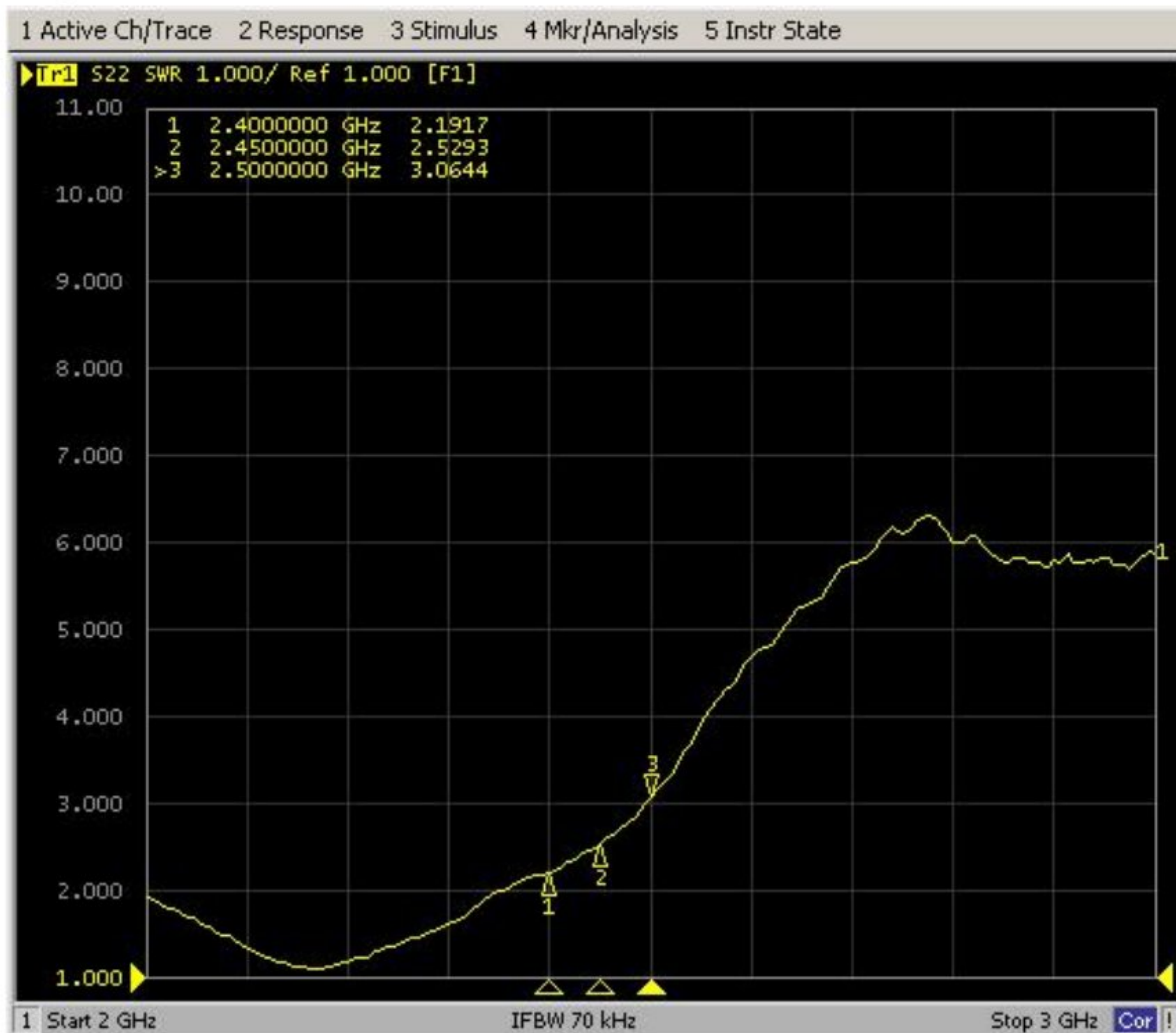
客户确认:

检 查	审 核	批 准

1. 产品图片



2. 电气性能测试报告： VSWR:



3. 产品性能参数:

电性能指标Electrical Specifications	
频率范围Frequency Range (MHz)	2400-2500
输入阻抗Input Impedence (Ω)	50
电压驻波比V.S.W.R	≤ 2.5 (未匹配设备, 仅供参考)
增益Gain (dBi)	3.0 ± 0.5 (未匹配设备, 仅供参考)
极化形式Polarization Type	垂直 Vertical
最大功率Maximum power(W)	10W
垂直面波瓣角度Vertical lobe Angle (E)	$45 \sim 60^\circ$
水平面波瓣角度Water plane lobe Angle (H)	360°
机械指标Mechanical Specifications	
连接器型号Connect Type	SMA-J (弯)
电缆型号Cable Type	/
天线尺寸Size	$50 * \Phi 15\text{MM}$
工作温度Operating Temp	$-20 \sim +65^\circ\text{C}$
储存温度Storage Temp	$-30 \sim +75^\circ\text{C}$

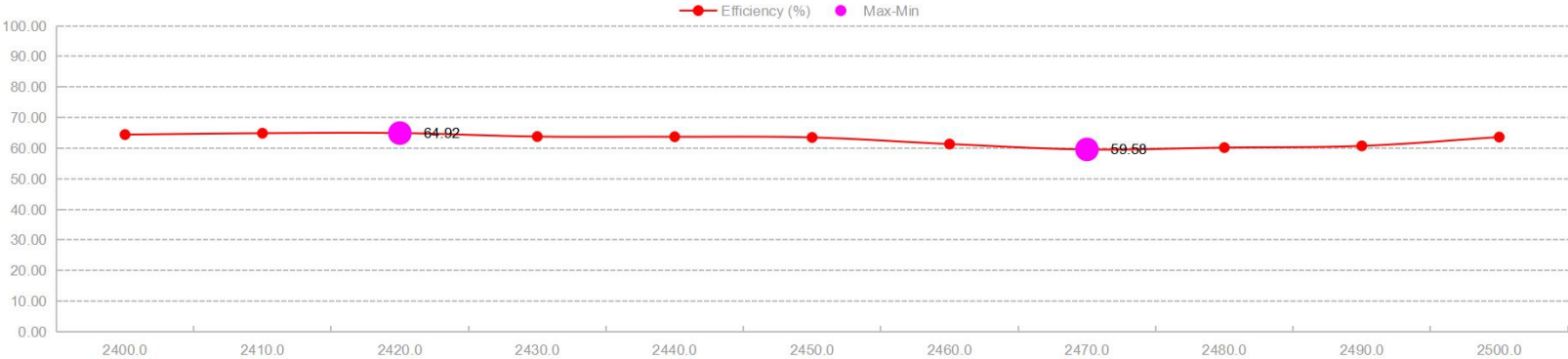


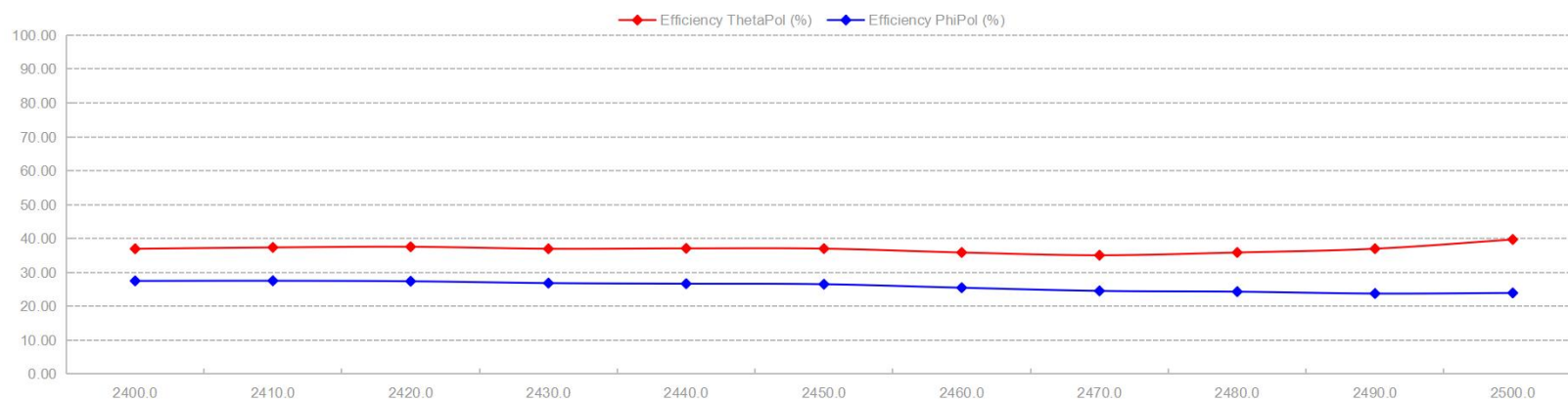
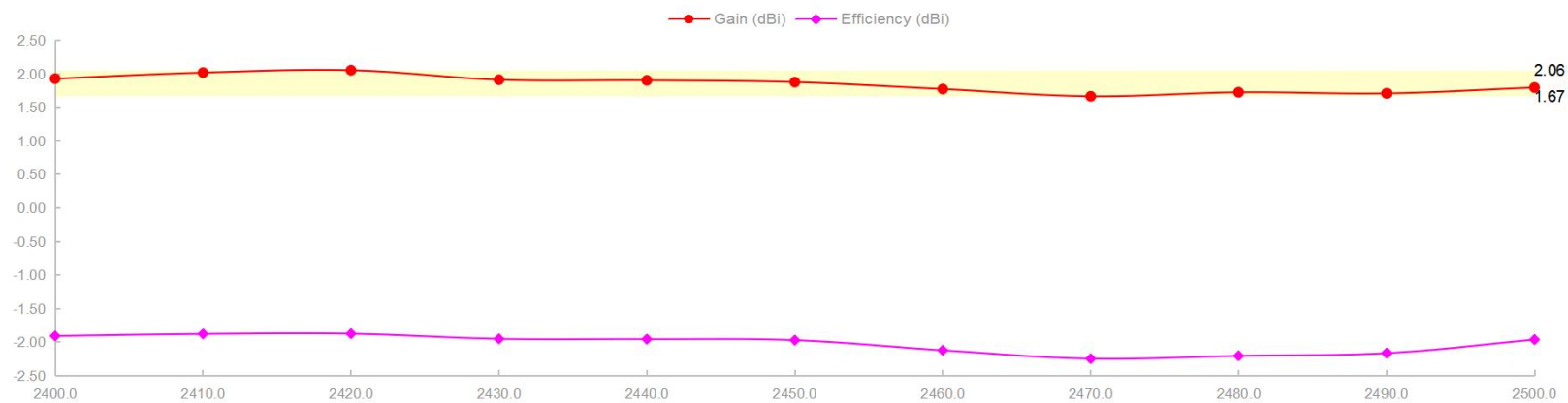
科信无线

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-1.91	-1.88	-1.88	-1.95	-1.96	-1.97	-2.12	-2.25	-2.21	-2.17	-1.96
Gain (dBi)	1.93	2.02	2.06	1.91	1.91	1.88	1.78	1.67	1.73	1.71	1.80
Efficiency (%)	64.43	64.87	64.92	63.78	63.72	63.49	61.33	59.58	60.17	60.73	63.62
Directivity (dB)	3.84	3.90	3.93	3.87	3.86	3.85	3.90	3.92	3.93	3.88	3.76
Peak Gain Position (Theta)	135.00	135.00	135.00	135.00	135.00	135.00	150.00	150.00	135.00	135.00	135.00
Peak Gain Position (Phi)	45.00	45.00	45.00	45.00	45.00	45.00	135.00	135.00	45.00	45.00	45.00
Efficiency ThetaPol (%)	36.95	37.36	37.55	36.96	37.07	37.00	35.87	35.05	35.86	36.98	39.70
Efficiency PhiPol (%)	27.47	27.52	27.37	26.83	26.65	26.50	25.47	24.53	24.31	23.75	23.93
Upper Hem. Efficiency (%)	32.57	32.91	33.00	32.87	33.00	32.91	31.76	30.65	30.60	30.79	32.13
Lower Hem. Efficiency (%)	31.86	31.96	31.92	30.91	30.72	30.59	29.58	28.93	29.57	29.94	31.49

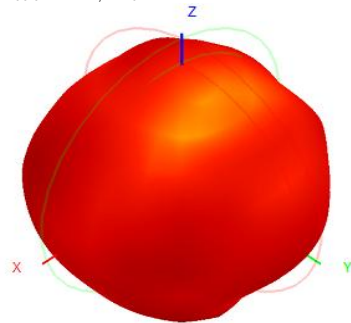
T90(H)圆度	5.98	5.89	5.81	5.88	6.11	6.58	6.81	6.76	6.40	6.36	6.01
Gain 15deg (dBi)											
E1(XZ)波瓣宽度	143.00	139.00	136.00	135.00	135.00	136.00	136.00	135.00	133.00	129.00	128.00
E1(XZ)前后比	1.81	1.80	1.82	2.00	2.17	2.23	2.27	2.11	1.97	1.93	1.97
E2(YZ)波瓣宽度	36.00	36.00	37.00	57.00	51.00	49.00	47.00	46.00	44.00	43.00	43.00
E2(YZ)前后比	2.20	2.34	2.28	1.92	1.56	1.26	1.15	1.25	1.61	2.23	2.96
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
仰角10度最差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣宽度	283.00	286.00	287.00	291.00	293.00	291.00	288.00	286.00	283.00	278.00	274.00
Hc(XY)前后比	4.09	4.00	3.86	3.70	3.52	3.54	3.58	3.60	3.71	3.95	4.16

Empty

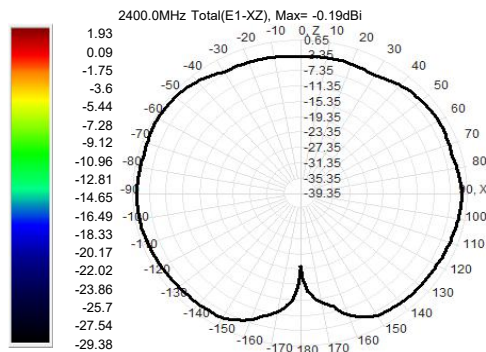
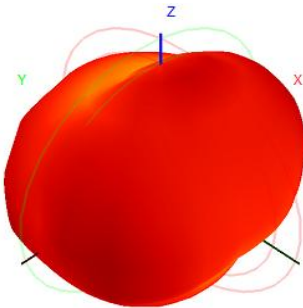




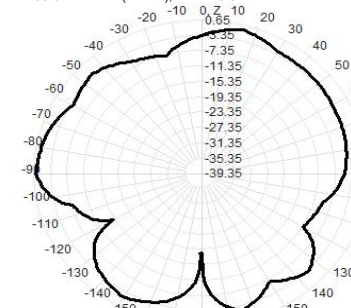
2400.0MHz H+V, Eff: 64.4%



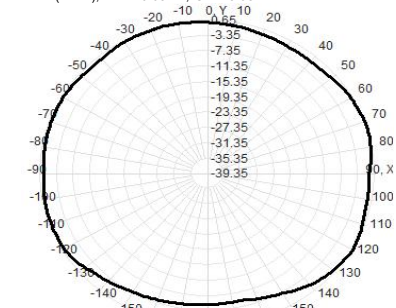
Back View



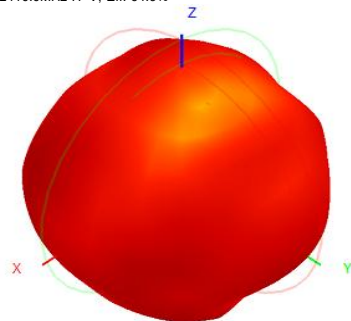
2400.0MHz Total(E2-YZ), Max=-0.01dBi



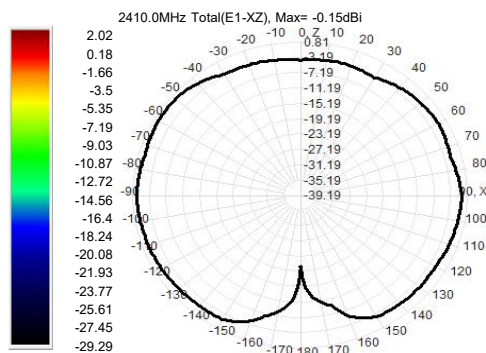
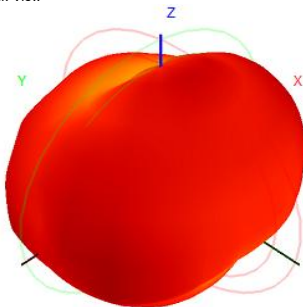
Total(H-XY), Max= 0.65dBi, CirD=5.98



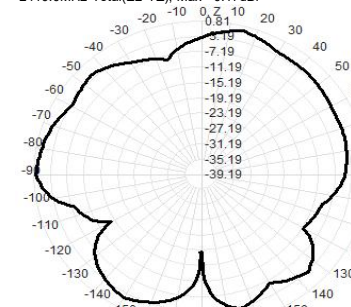
2410.0MHz H+V, Eff: 64.9%



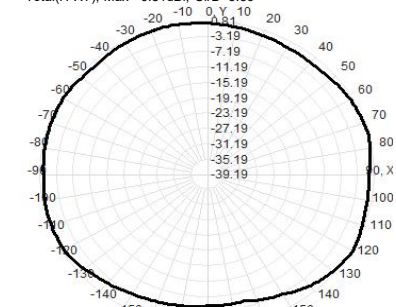
Back View



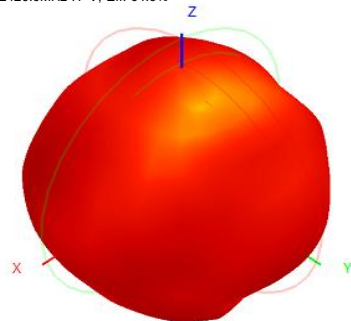
2410.0MHz Total(E2-YZ), Max= 0.17dBi



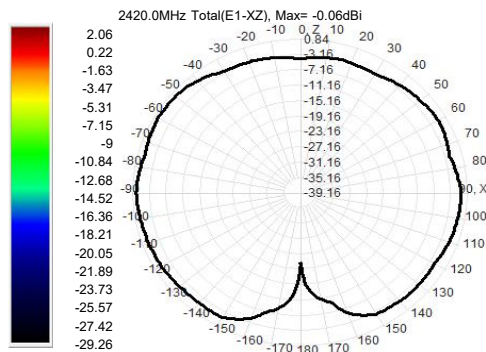
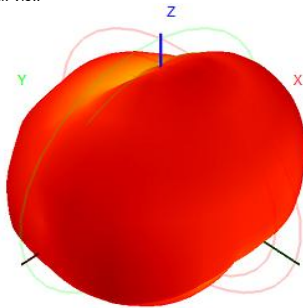
Total(H-XY), Max= 0.81dBi, CirD=5.89



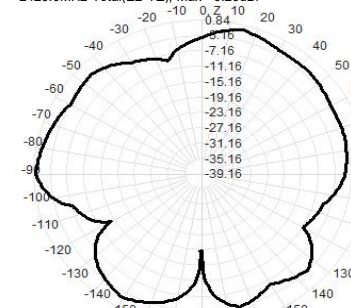
2420.0MHz H+V, Eff: 64.9%



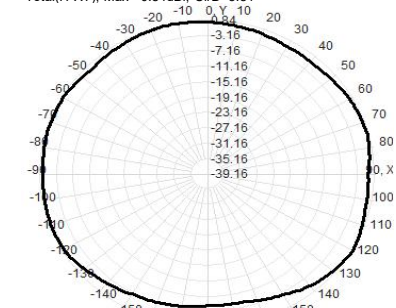
Back View



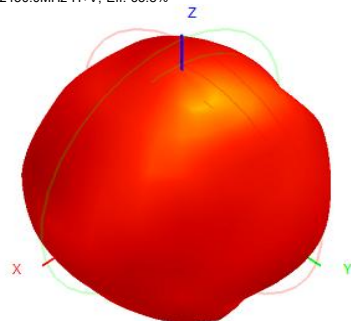
2420.0MHz Total(E2-YZ), Max= 0.26dBi



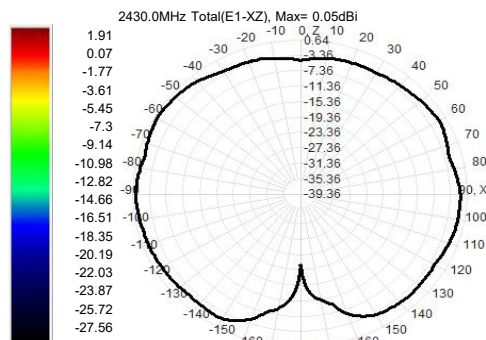
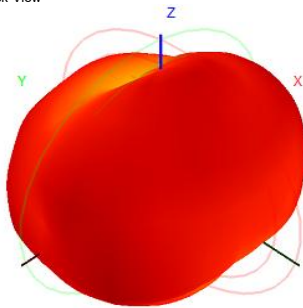
Total(H-XY), Max= 0.84dBi, CirD=5.81



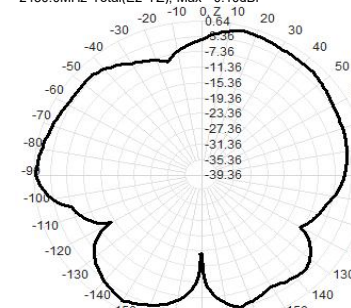
2430.0MHz H+V, Eff: 63.8%



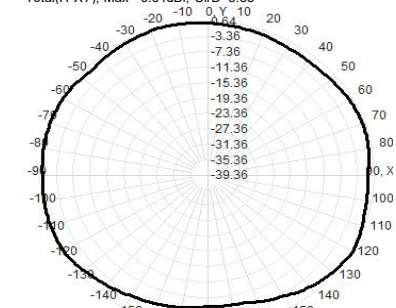
Back View



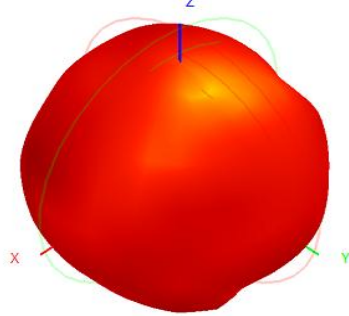
2430.0MHz Total(E2-YZ), Max= 0.10dBi



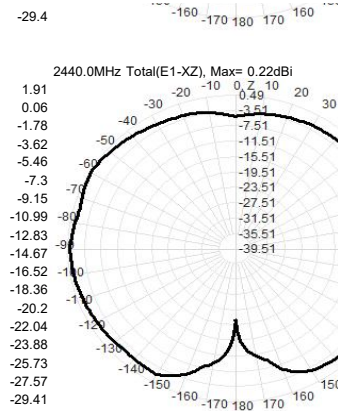
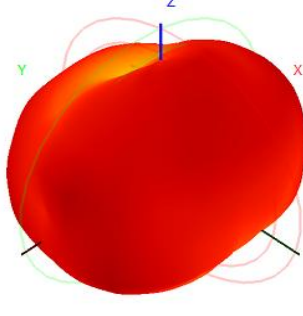
Total(H-XY), Max= 0.64dBi, CirD=5.88



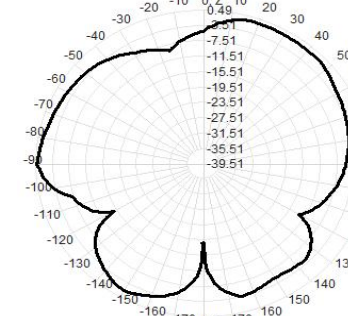
2440.0MHz H+V, Eff: 63.7%



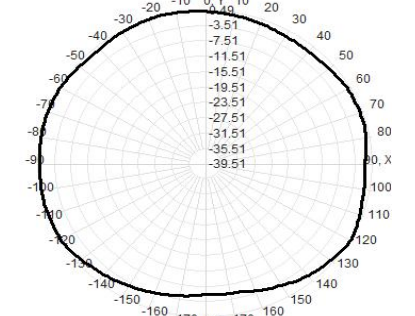
Back View



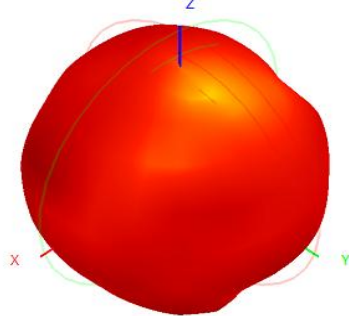
2440.0MHz Total(E2-YZ), Max= 0.06dBi



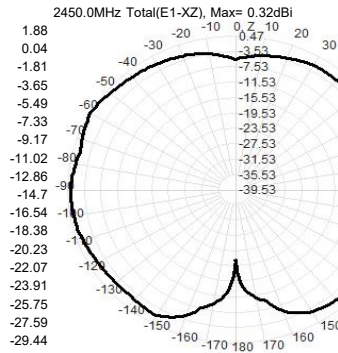
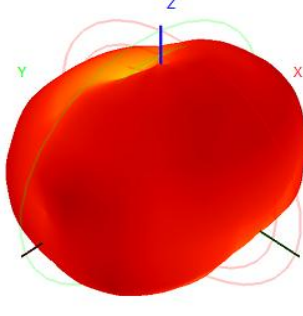
Total(H-XY), Max= 0.49dBi, CirD=6.11



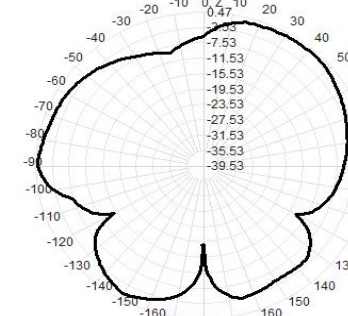
2450.0MHz H+V, Eff: 63.5%



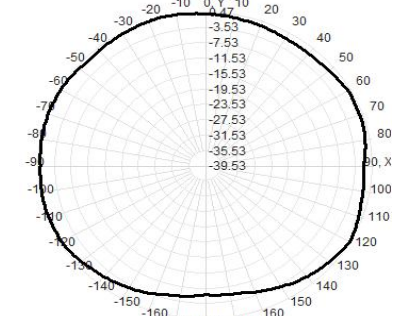
Back View



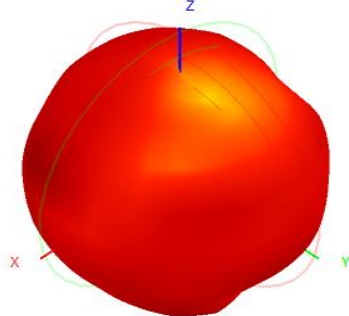
2450.0MHz Total(E2-YZ), Max= -0.01dBi



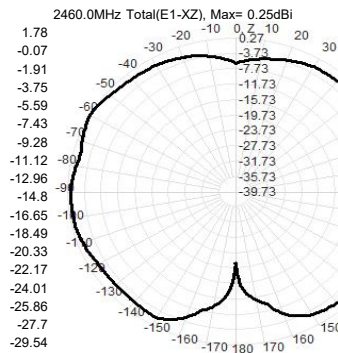
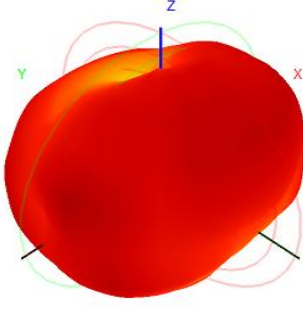
Total(H-XY), Max= 0.47dBi, CirD=6.58



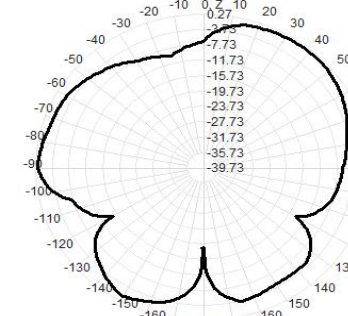
2460.0MHz H+V, Eff: 61.3%



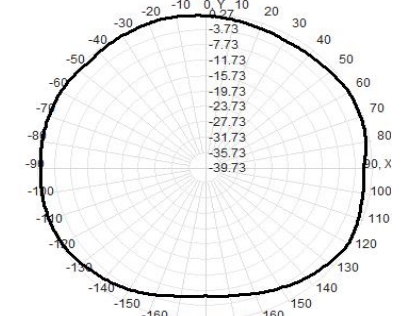
Back View



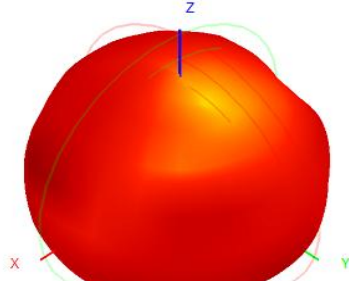
2460.0MHz Total(E2-YZ), Max= -0.20dBi



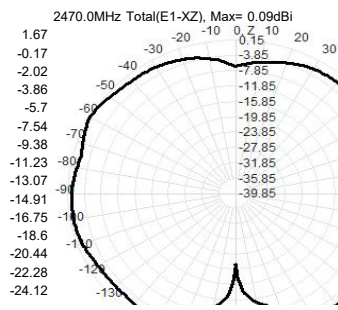
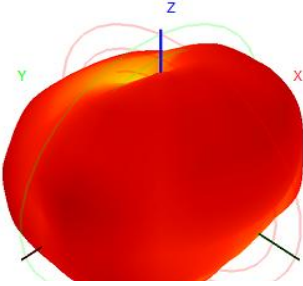
Total(H-XY), Max= 0.27dBi, CirD=6.81



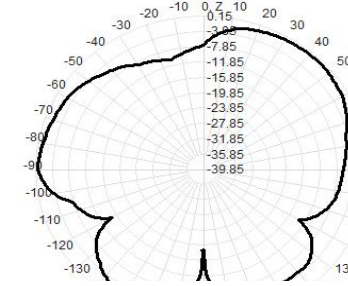
2470.0MHz H+V, Eff: 59.6%



Back View



2470.0MHz Total(E2-YZ), Max= -0.33dBi



Total(H-XY), Max= 0.15dBi, CirD=6.76

