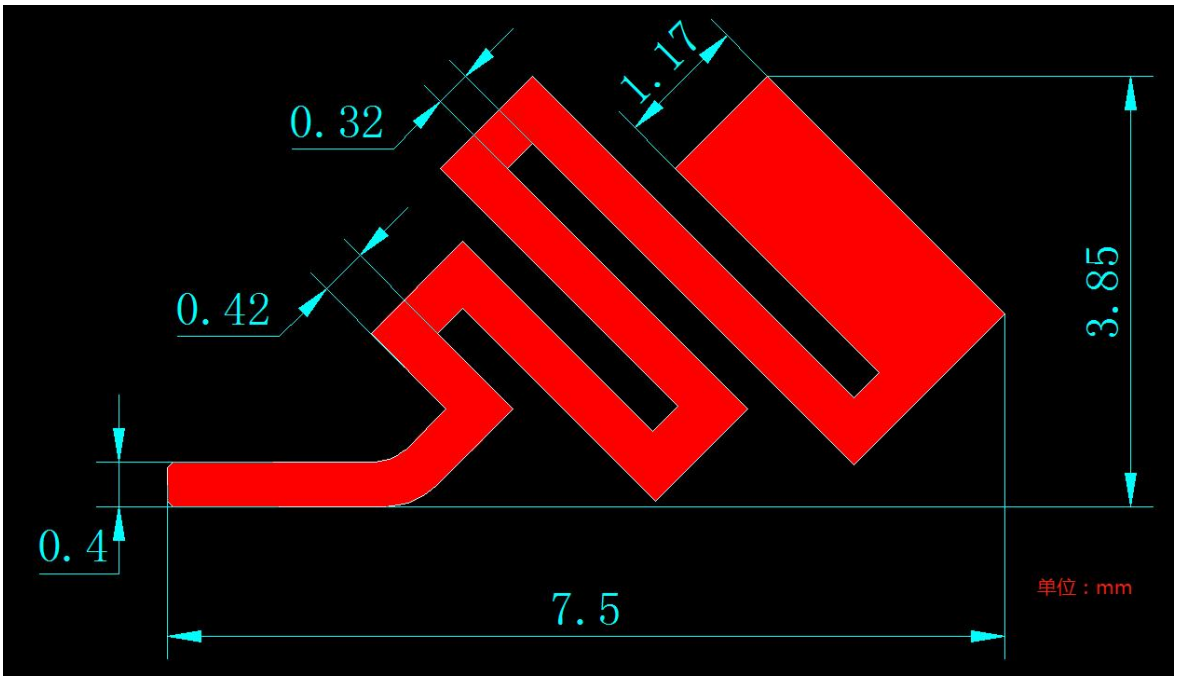
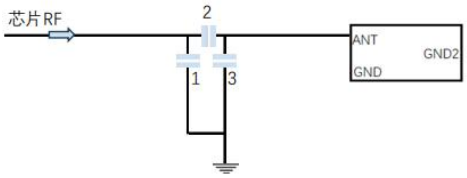
COOLWEAR 柯沃技术	SPECIFICATION		Reference No.
	Product Description	Model No.	
	BT Antenna	CW066-04	
Customer：			Page
Date：2025-04-03			- 1 -

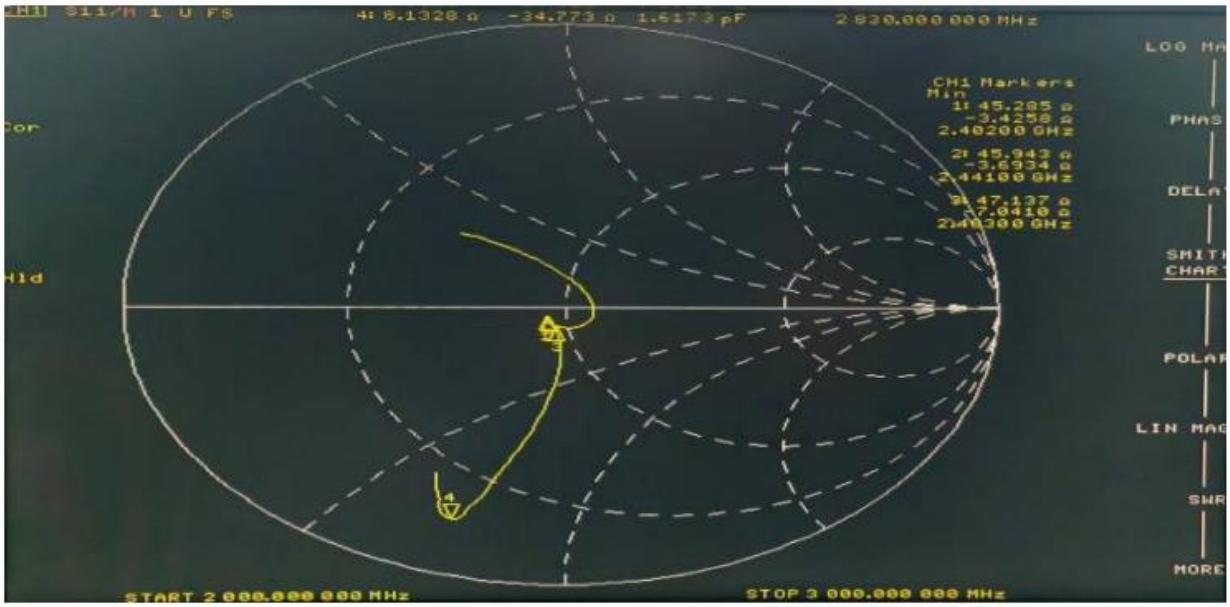
1、OVERALL PERFORMANCE(Antenna Element,FPC&Cable)	
CHARACTERISTICS	SPEC
Center Frequency	2400~2500MHz
Gain	-4.33dBi
Efficiency	12%
Output VSWR	3.0 max
Output Impedance	50ohm
Polarization	L.P
Dimensions	Monopole FPC板载天线
2、APPLICATION	
This application shall apply for antenna unit which shall be used with communication (for impedance 50 ohm)	
3、OPERRATING CONDITION	
Temperature	-40℃ to +85℃
Humidity	10% to 95% RH
4、STORAGE CONDITION	
Temperature	-40℃ to +90℃
Humidity	10% to 95% R H

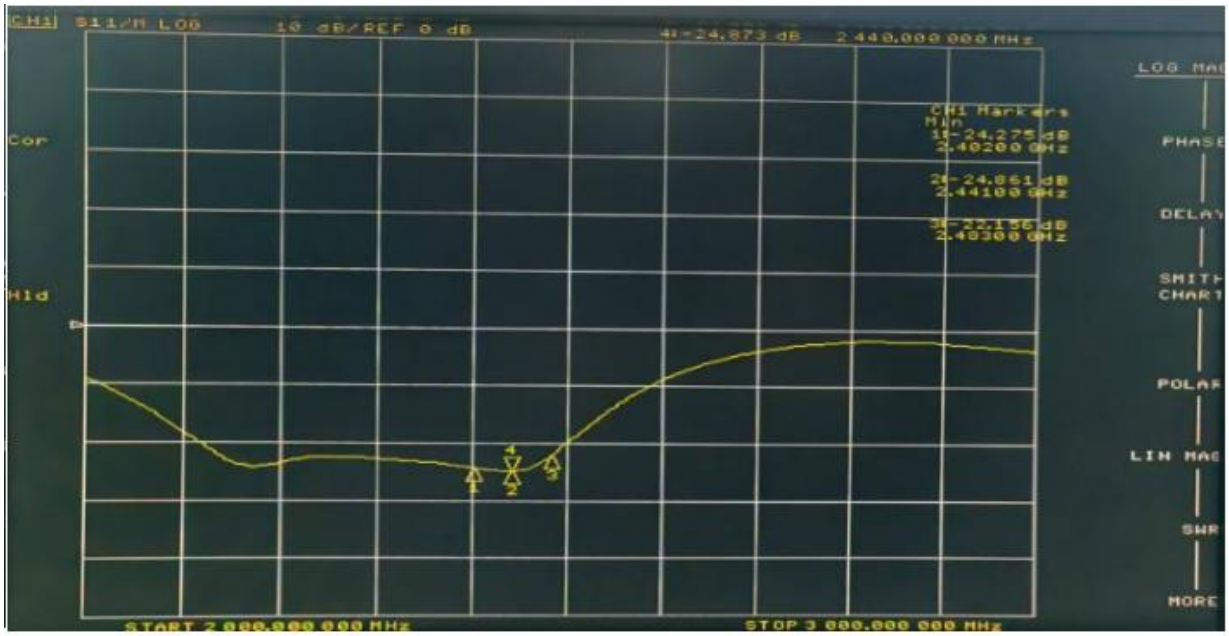
5、ANTENNA DIMENSIONS



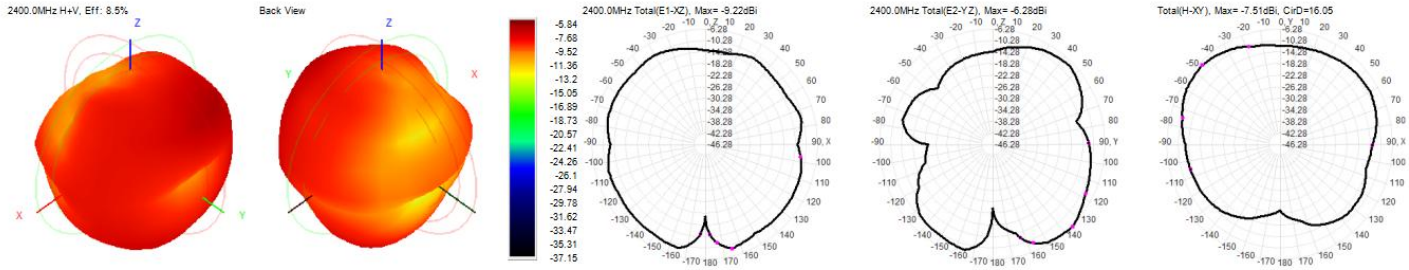


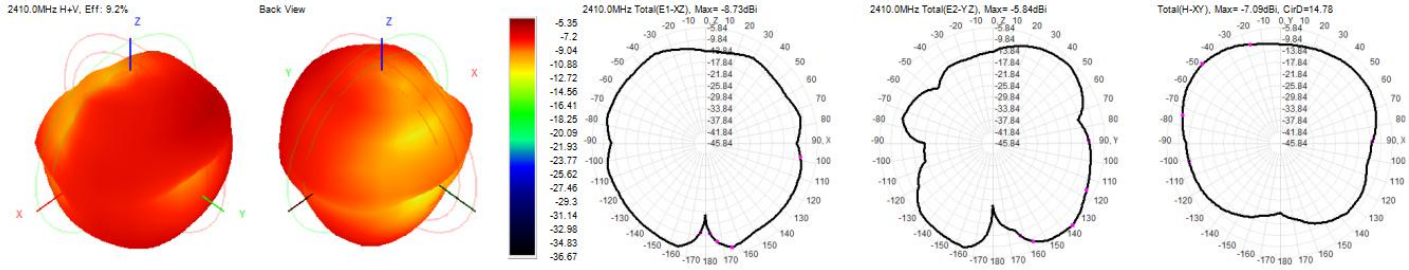
客户名称：	柯沃技术			
项目名称：	CW066-04-20241218			
主控芯片：				
调试日期：	20241218			
匹配物料编号:	物料规格尺寸	匹配参数值	物料名称	物料品牌
1	0201	1pF	贴片电容	村田
2	0201	0R	贴片电阻	
3	0201	NC		
4				
ANT	板载			

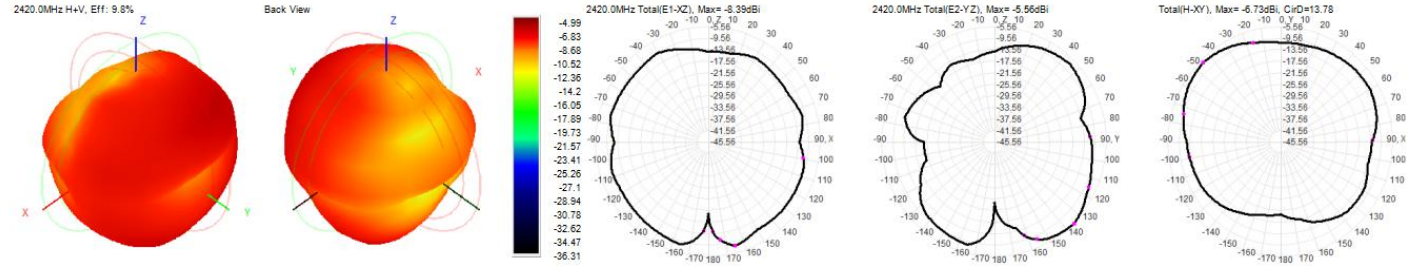


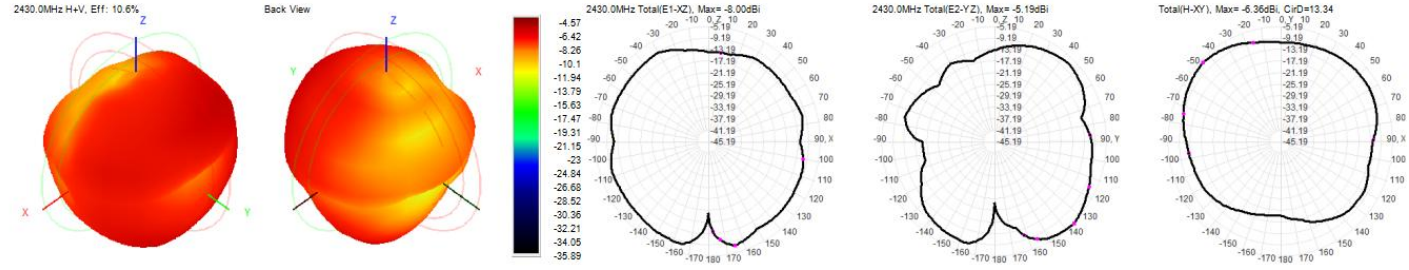


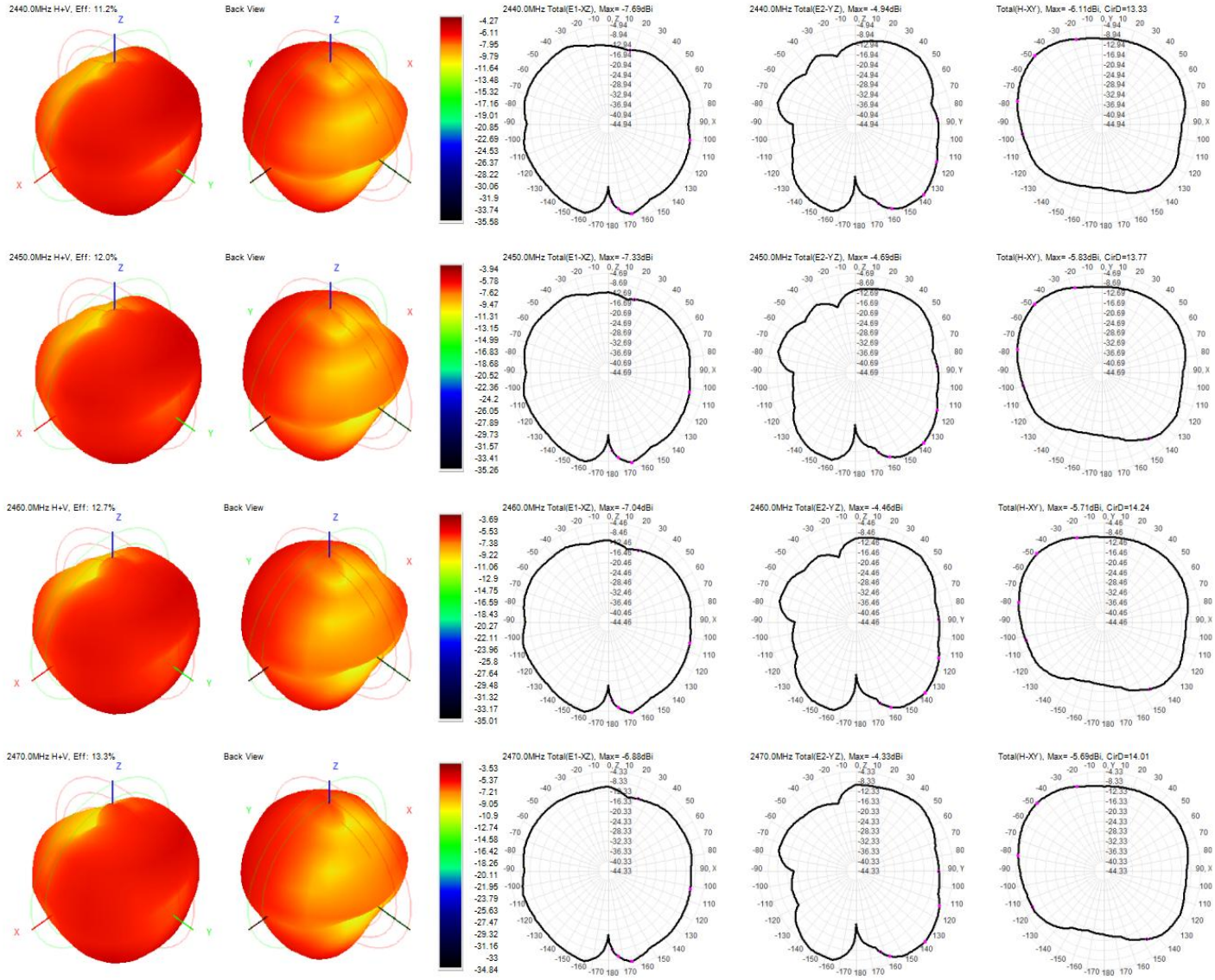
Fre.(MHz)	2402	2441	2483
S11(dB)	-24.27	-24.86	-22.15

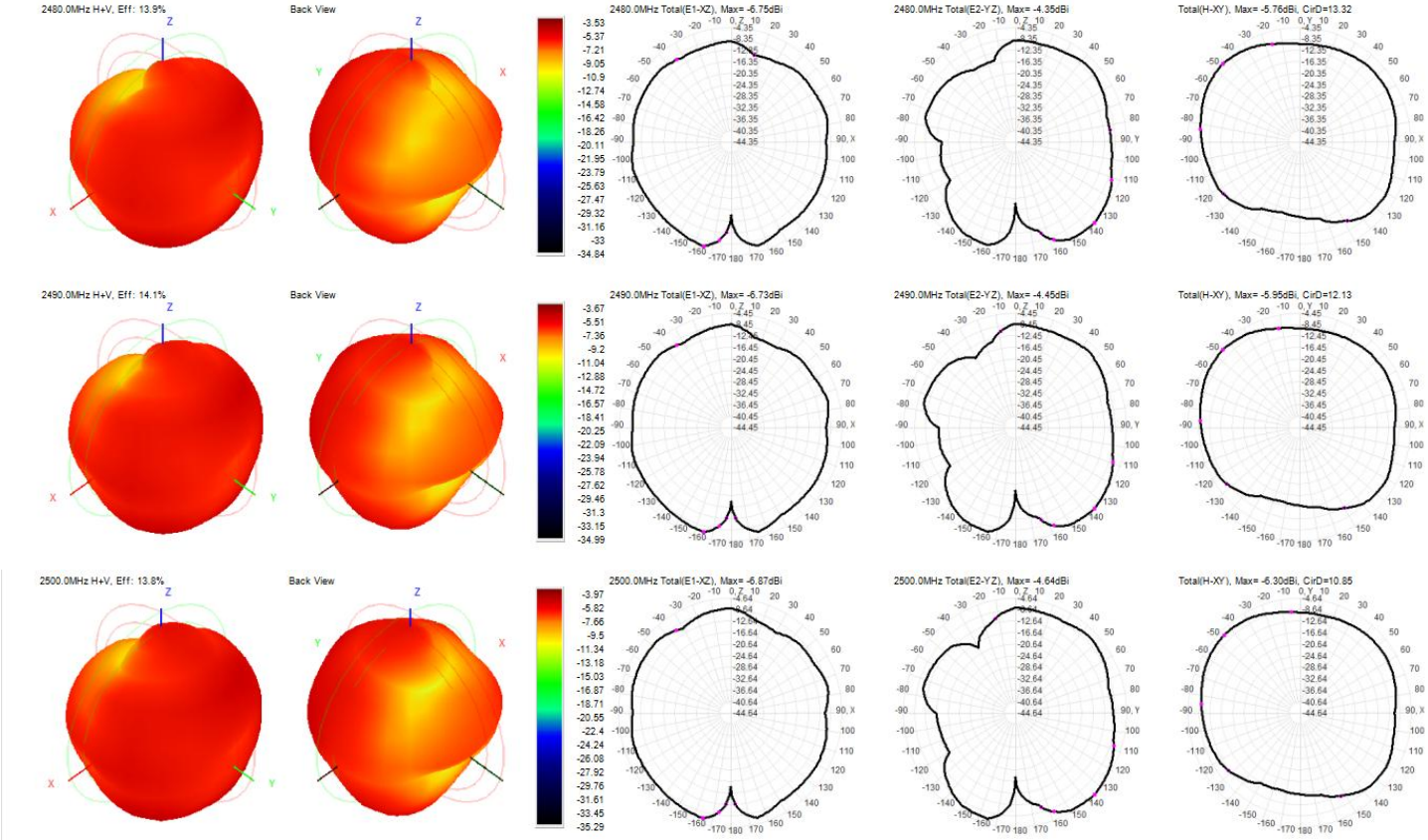

2400.0MHz H+V, Eff: 8.5%
Back View
2400.0MHz Total(E1-XZ), Max= -9.22dBi
2400.0MHz Total(E2-YZ), Max= -6.28dBi
Total(H-XY), Max= -7.51dBi, CirD=16.05


2410.0MHz H+V, Eff: 9.2%
Back View
2410.0MHz Total(E1-XZ), Max= -8.73dBi
2410.0MHz Total(E2-YZ), Max= -5.84dBi
Total(H-XY), Max= -7.09dBi, CirD=14.78


2420.0MHz H+V, Eff: 9.8%
Back View
2420.0MHz Total(E1-XZ), Max= -8.39dBi
2420.0MHz Total(E2-YZ), Max= -5.56dBi
Total(H-XY), Max= -6.73dBi, CirD=13.78


2430.0MHz H+V, Eff: 10.6%
Back View
2430.0MHz Total(E1-XZ), Max= -8.00dBi
2430.0MHz Total(E2-YZ), Max= -5.19dBi
Total(H-XY), Max= -6.36dBi, CirD=13.34


2440.0MHz H+V, Eff: 11.2%
Back View
2440.0MHz Total(E1-XZ), Max= -7.69dBi
2440.0MHz Total(E2-YZ), Max= -4.94dBi
Total(H-XY), Max= -6.11dBi, CirD=13.33
2450.0MHz H+V, Eff: 12.0%
Back View
2450.0MHz Total(E1-XZ), Max= -7.33dBi
2450.0MHz Total(E2-YZ), Max= -4.69dBi
Total(H-XY), Max= -5.83dBi, CirD=13.77
2460.0MHz H+V, Eff: 12.7%
Back View
2460.0MHz Total(E1-XZ), Max= -7.04dBi
2460.0MHz Total(E2-YZ), Max= -4.46dBi
Total(H-XY), Max= -5.71dBi, CirD=14.24
2470.0MHz H+V, Eff: 13.3%
Back View
2470.0MHz Total(E1-XZ), Max= -6.88dBi
2470.0MHz Total(E2-YZ), Max= -4.33dBi
Total(H-XY), Max= -5.69dBi, CirD=14.01



Antenna efficiency

Frequency(MHz)	Efficiency (%)	Total Gain（dBi）
2400	8.5	-6.28
2410	9.2	-5.84
2420	9.8	-5.56
2430	10.5	-5.19
2440	11.2	-4.94
2450	12.0	-4.69
2460	12.7	-4.46
2470	13.3	-4.33
2480	13.9	-4.35
2490	14.1	-4.45
2500	13.8	-4.64