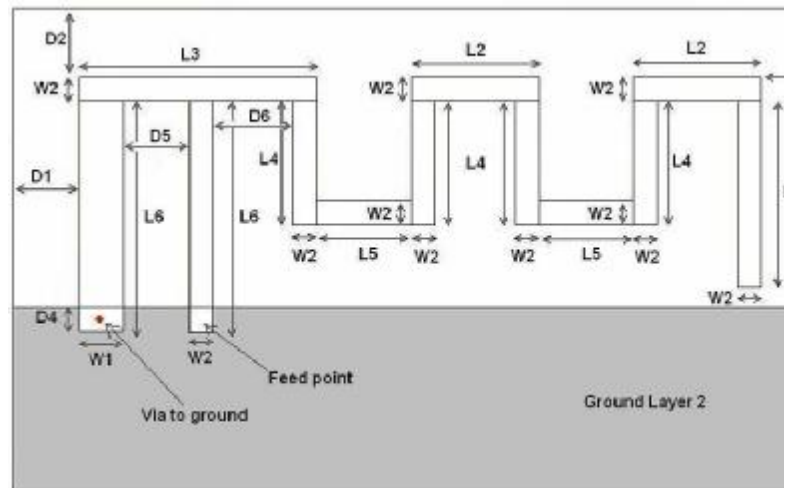


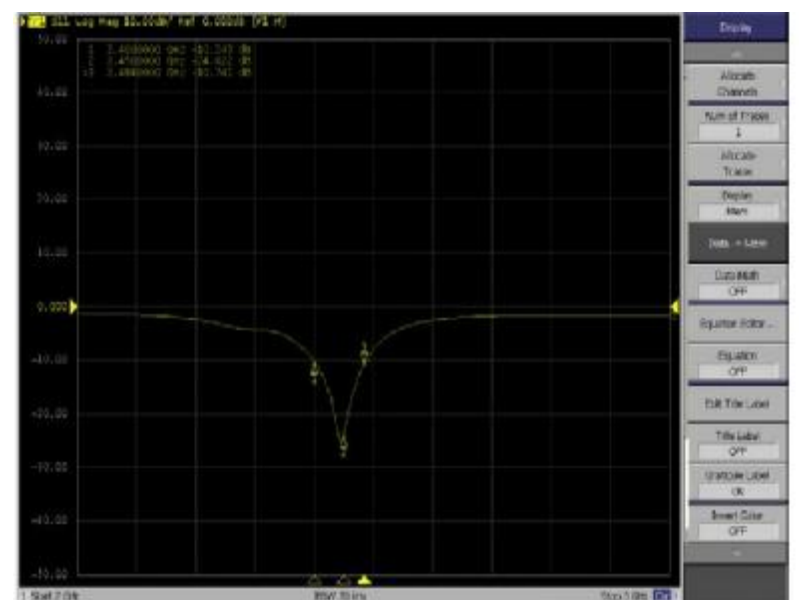
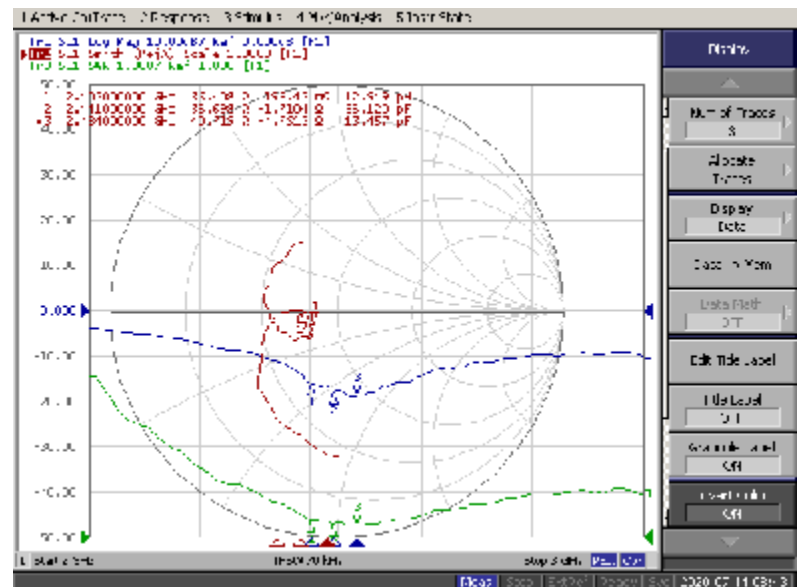
1.Electrical Characteristics

Item	Specification
Type	PCB Inverted-F Antenna
Central frequency	2.441 GHz
Bandwidth	78 MHz (Typical value)
Gain	2.47dBi
Polarization	Linear
VSWR	2 max.
Azimuth Bandwith	Omni-directional
Impedance	50Ω
Rated Power (max.)	4dBm
Maximum Input Power	10dBm
Operation Temperature	-40 ' C ~ +85 ' C

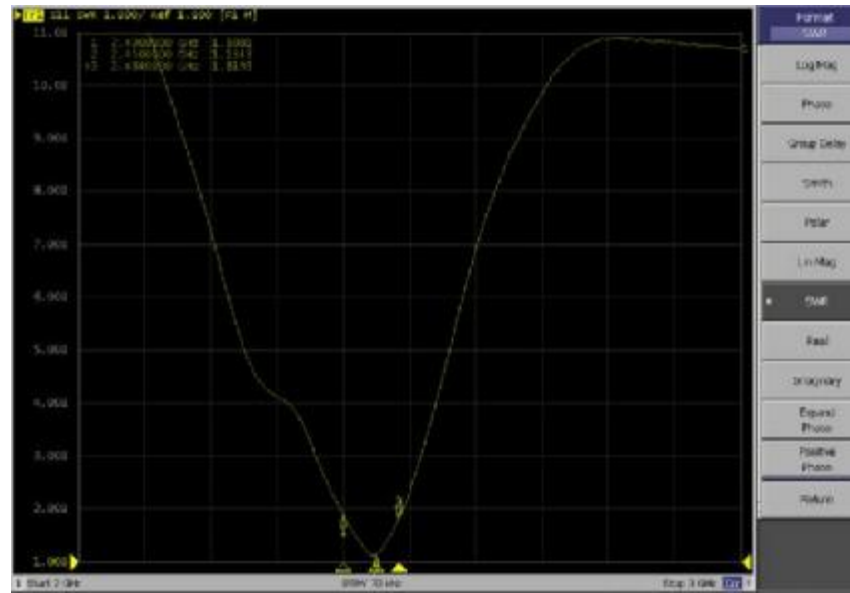
2.The suggestion of matching circuit



3. SWR & Smith chart



Frequency(GHz)	S11(dB)
2.402	-10.24
2.441	-24.02
2.480	-10.74



Frequency(GHz)	VSWR
2.402	1.88
2.441	1.13
2.480	1.81

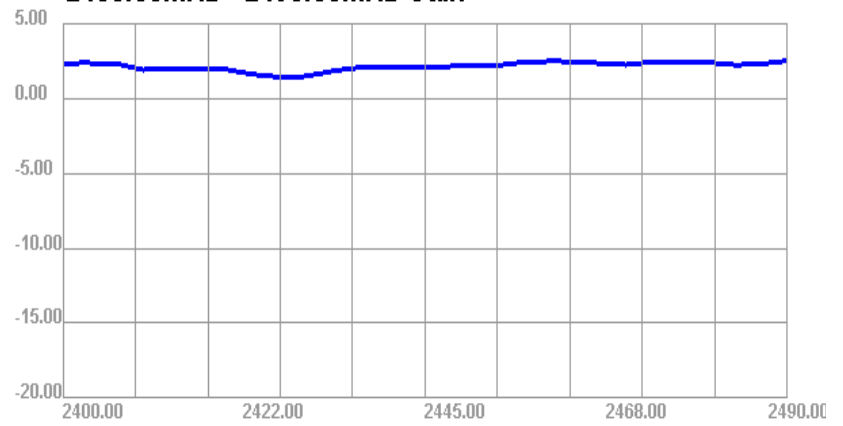
The reference:

Return Loss	-6.02dB	-7.36dB	-10dB	-13dB	-20dB
VSWR	3	2.5	1.92	1.576	1.22
Return Power Ratio	25%	18.37%	10%	5%	0.98

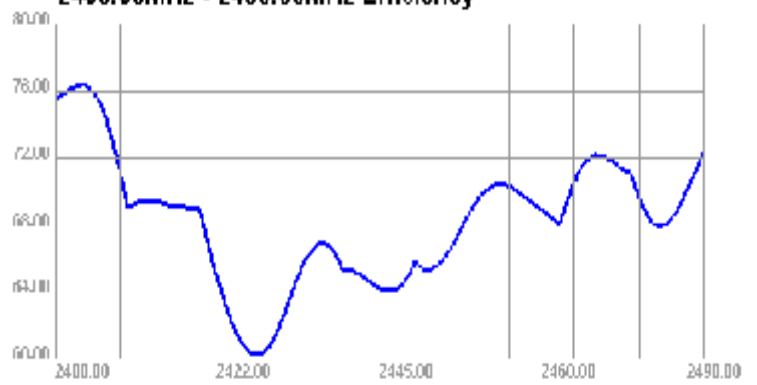
4. Gain & Efficiency:

Passive Test For BT										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Ma x (dB)	Min (dB)	Directivit y (dBi)	Beamw h (3dB)
2400	75.5 2	-1.2 2	2.36	0.21	32.18 8	43.33 5	2.3 6	-11.9 9	3.58	
2410	69.0 5	-1.6 1	1.92	-0.23	29.32	39.72 9	1.9 2	-11.2 3	3.52	
2420	69.0 4	-1.6 1	1.98	-0.17	29.19 1	39.85 2	1.9 8	-10.6 4	3.58	
2430	60.9 3	-2.1 5	1.47	-0.68	25.77	35.16 4	1.4 7	-11.1 3	3.63	
2440	65.2 4	-1.8 5	2.04	-0.11	27.77 9	37.46 3	2.0 4	-11.5 1	3.89	
2450	65.8 4	-1.8 2	2.23	0.08	28.09 1	37.74 5	2.2 3	-12.2 5	4.05	
2460	70.1 4	-1.5 4	2.47	0.32	29.88 6	40.25 2	2.4 7	-12.0 9	4.01	
2470	68.0 4	-1.6 7	2.25	0.1	29.06 5	38.97 5	2.2 5	-12.0 7	3.92	
2480	71.0 8	-1.4 8	2.4	0.25	30.39 6	40.68 1	2.4	-13.1 3	3.89	
2490	72.4 2	-1.4	2.52	0.37	30.82 6	41.59 5	2.5 2	-13.8 9	3.92	

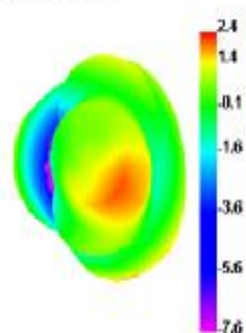
2400.00MHz - 2490.00MHz Gain



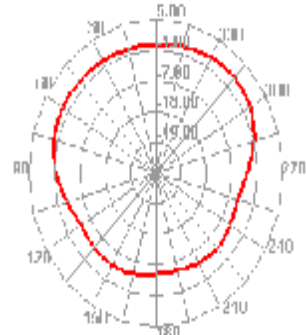
2400.00MHz - 2490.00MHz Efficiency



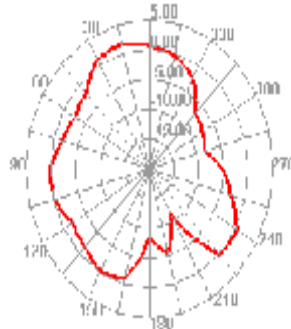
2402.000MHz



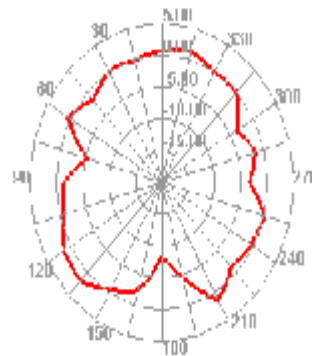
2402.000MHz H



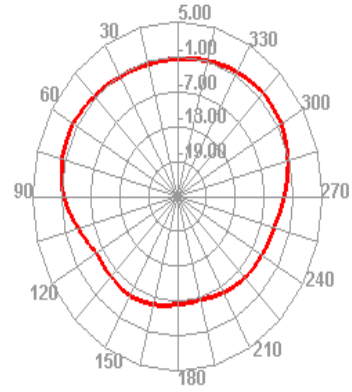
2402.000MHz E1



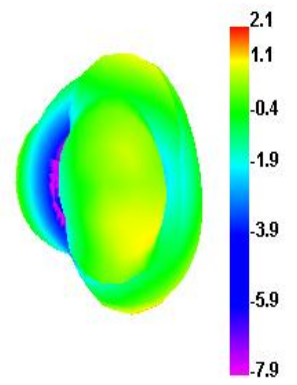
2402.000MHz E2



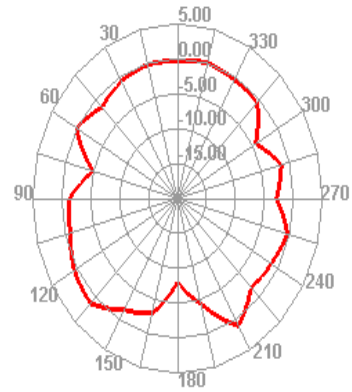
2441.000MHz H



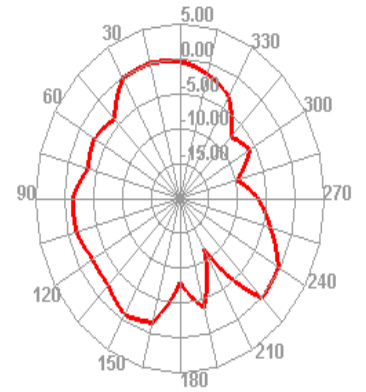
2441.000MHz



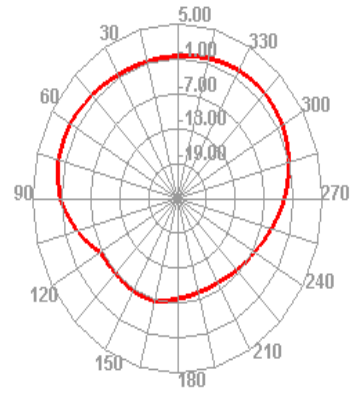
2441.000MHz E2



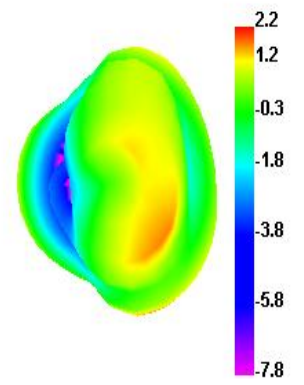
2441.000MHz E1



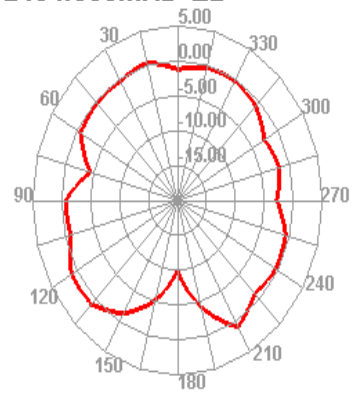
2484.000MHz H



2484.000MHz



2484.000MHz E2



2484.000MHz E1

