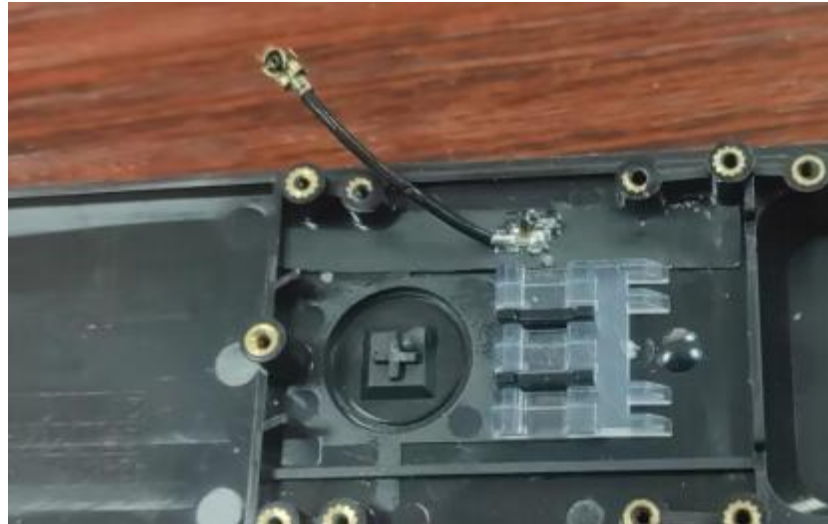


1. Antenna diagram



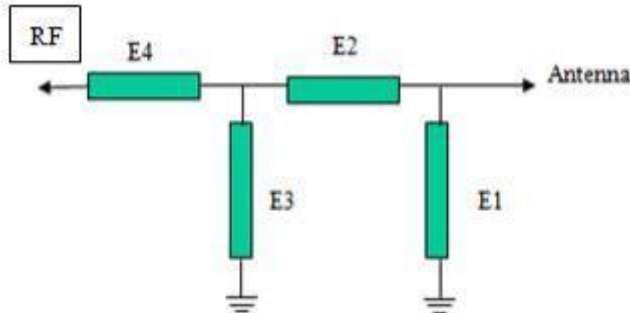
2. Antenna VSWR, Return Loss



3. Antenna Matching Circuit

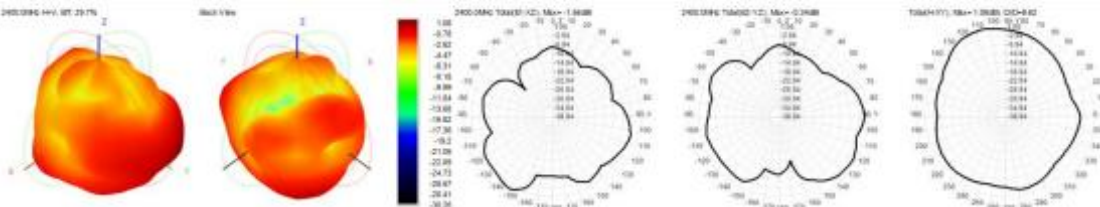
Element	E1	E2	E3	
Value	NC	0	NC	

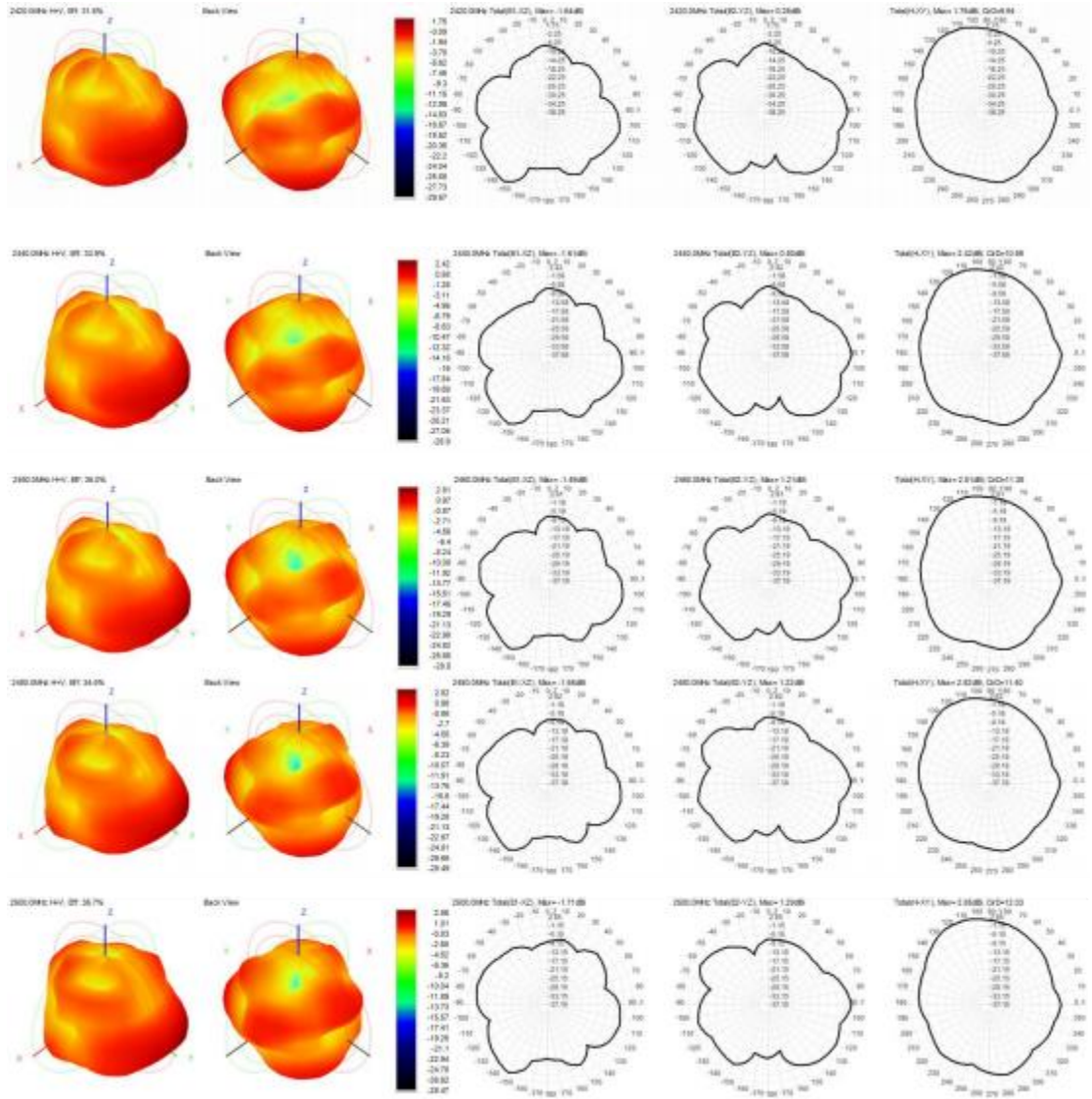
We have not made any modifications to the matching circuit!



4. Gain, efficiency, radiation direction diagram

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-5.27	-5.08	-5.00	-4.80	-4.69	-4.68	-4.56	-4.59	-4.61	-4.59	-4.47
Gain (dBi)	1.06	1.06	1.06	1.50	1.50	1.50	1.50	1.75	1.75	1.75	2.0
Efficiency (%)	29.74	31.07	31.61	33.14	33.93	34.07	35.00	34.78	34.57	34.78	35.69
Directivity (dB)	6.33	6.57	6.75	6.94	7.11	7.28	7.37	7.45	7.44	7.36	7.32
Peak Gain Position (Theta)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Peak Gain Position (Phi)	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00
Efficiency ThetaPol (%)	17.70	18.46	18.87	19.84	20.58	20.79	21.64	21.64	21.79	22.09	23.04
Efficiency PhiPol (%)	12.04	12.62	12.74	13.30	13.35	13.29	13.35	13.14	12.78	12.68	12.66
Upper Hem. Efficiency (%)	10.57	11.33	11.77	12.66	13.18	13.59	14.20	14.51	14.69	15.14	15.91
Lower Hem. Efficiency (%)	19.16	19.74	19.84	20.48	20.76	20.48	20.80	20.28	19.88	19.64	19.78
T90(H) ROUNDNESS	9.62	9.48	9.94	10.48	10.89	11.25	11.38	11.44	11.40	11.77	12.03
Gain 15deg (dBi)											
E1(XZ) WAVELENGTH	41.00	40.00	37.00	36.00	36.00	37.00	35.00	34.00	31.00	30.00	30.00
E1(XZ) ASPECT RATIO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E2(YZ) WAVELENGTH	72.00	35.00	34.00	33.00	32.00	30.00	29.00	27.00	27.00	28.00	28.00
E2(YZ) ASPECT RATIO	5.53	5.85	6.25	6.53	6.69	7.03	7.22	7.27	7.13	6.92	6.70
AXIS RATIO AT MAX GAIN(P)	18.58	18.64	19.39	20.18	19.77	19.69	18.43	17.21	16.83	16.63	16.47
AXIS RATIO AT THETA=0	15.25	13.60	12.13	10.93	10.35	10.19	10.45	10.38	10.43	10.63	11.20
ELEVATION MAXIMUM AXIS RATIO	55.13	68.15	76.69	53.15	55.45	52.42	59.74	50.71	47.19	59.24	57.68
Hc(XY) WAVELENGTH	61.00	63.00	62.00	62.00	62.00	62.00	64.00	64.00	64.00	63.00	64.00
Hc(XY) ASPECT RATIO	6.74	6.93	6.91	6.98	7.05	7.31	7.48	7.69	7.72	7.42	7.07
LEFT CIRCULAR POLARIZATION EFFICIENCY	11.23	11.81	12.02	12.56	12.78	12.77	13.13	12.64	12.59	12.72	13.01
RIGHT CIRCULAR POLARIZATION EFFICIENCY	18.50	19.26	19.59	20.58	21.16	21.30	21.87	22.14	21.98	22.06	22.68





5. Antenna Structure Dimensions

