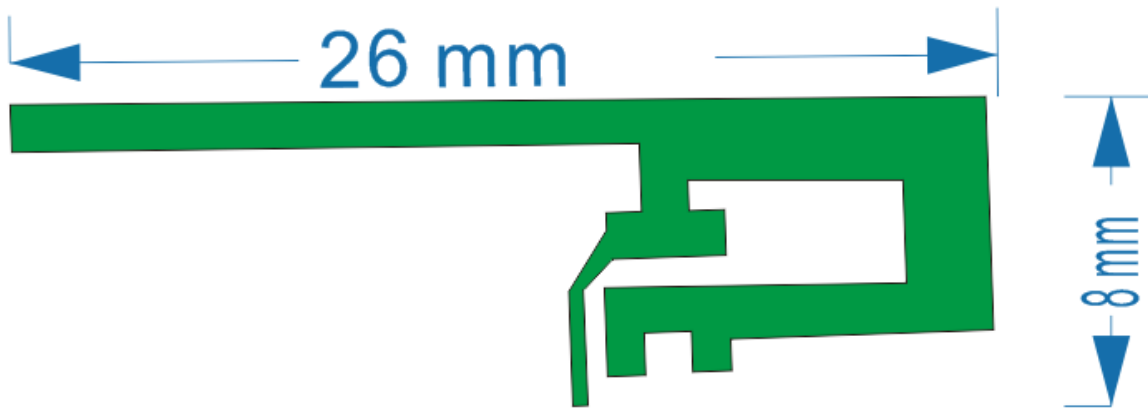


PUUSLED Co. , Ltd

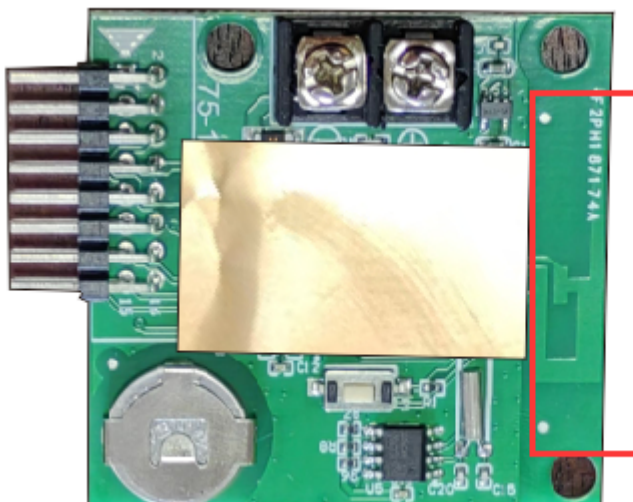
Control card antenna Specification sheet

Application	PUUSLED Co. , Ltd		
Address	33rd Building,Xinhui Rongzhi Chuangmei Industry Area, Jiangmen, Guangdong, China		
Material	PCB-antenna		
Antenna Type	PCB-antenna		
Band	2400Mhz-2500Mhz		
Power	Max : 1.5W	Impedance	50 Ω
dBi	2.03dBi		
Test basis	YXS-ANTWT-2.4G-20150401		
Test Engineer	李积全	To examine	潘景池
Date	2024-11-15	Test basis	YXS-ANTWT-2.4G-20150401

1. PCB-Antenna size

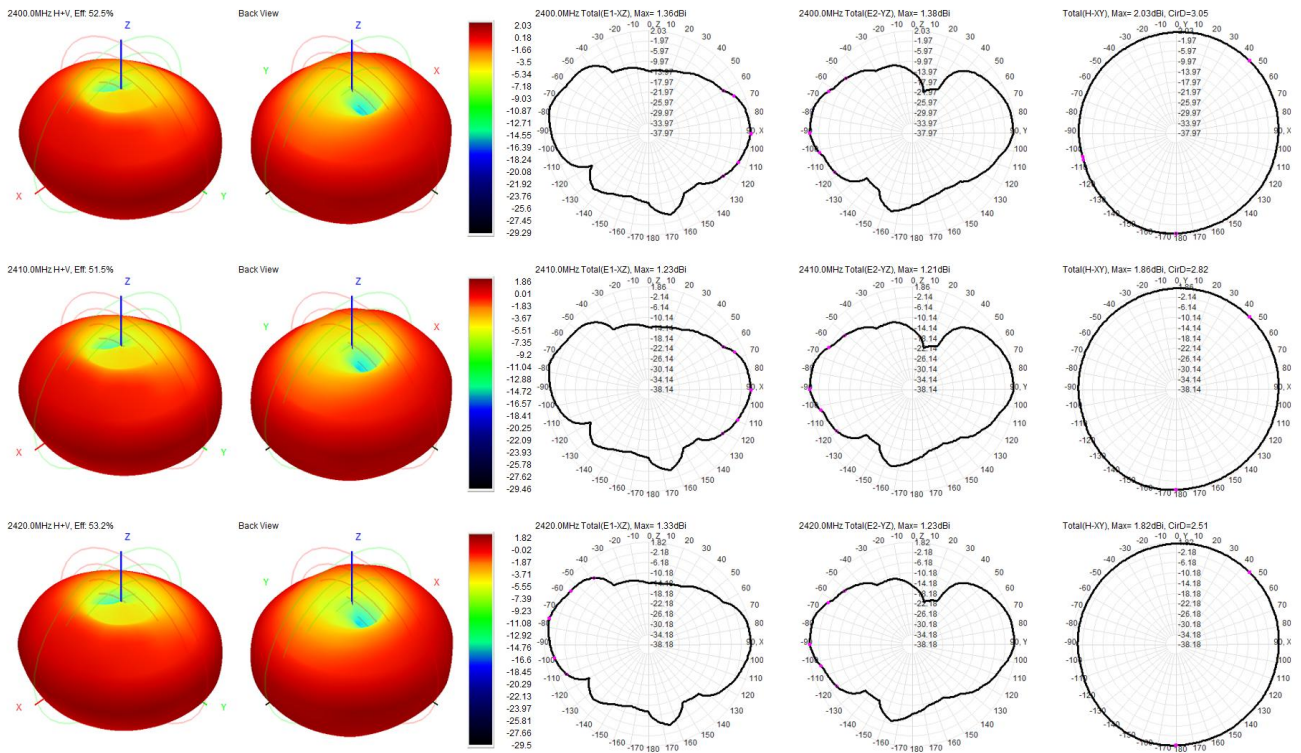


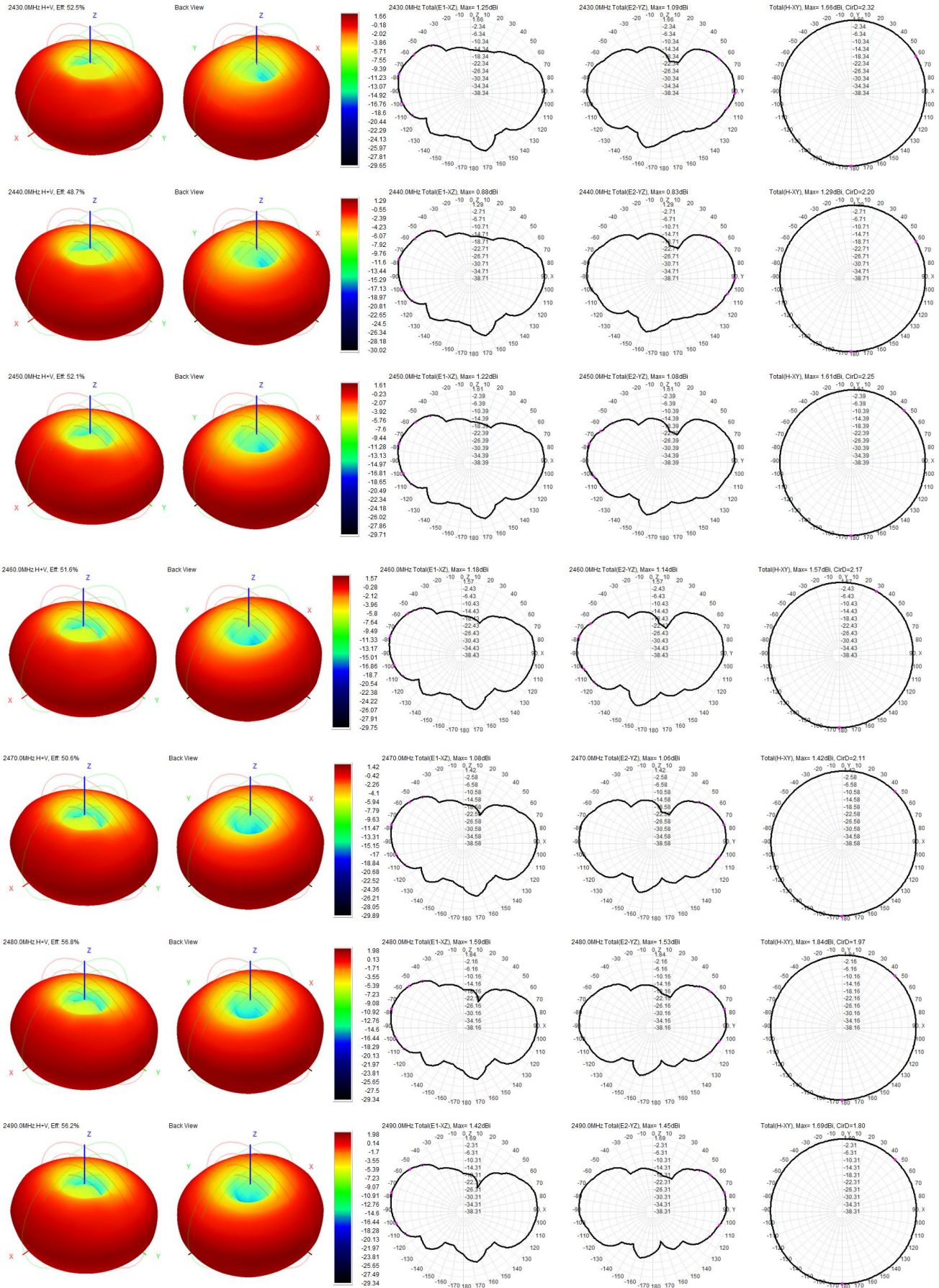
2、Antenna location map:

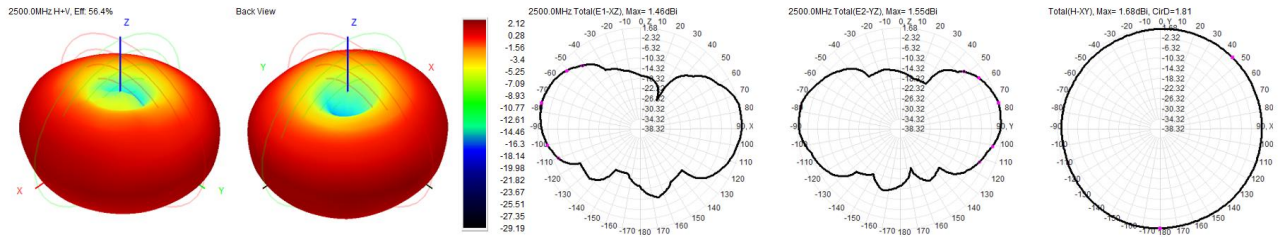


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3、Testing Parameters







Frepquency ID	1	2	3	4	5	6	7	8	9	10	11
Frepquency (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)	-2.80	-2.88	-2.74	-2.80	-3.13	-2.83	-2.87	-2.96	-2.46	-2.50	-2.49
Gain (DBi)	2.03	1.86	1.82	1.66	1.29	1.61	1.57	1.42	1.98	1.98	2.12
Efficiency (%)	52.52	51.47	53.22	52.49	48.68	52.08	51.63	50.60	56.78	56.22	56.37
Directivity (dB)	4.82	4.74	4.56	4.46	4.42	4.44	4.44	4.38	4.43	4.48	4.61
Peak Gain Position (Theta)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	75.00	75.00	75.00	75.00
Peak Gain Position (Phi)	135.00	135.00	135.00	150.00	150.00	120.00	120.00	240.00	255.00	255.00	255.00
Efficiency TheaaPol (%)	51.02	50.06	51.83	51.19	47.53	50.61	50.61	49.71	55.86	55.32	55.51
Efficiency PhiPol (%)	1.50	1.40	1.39	1.30	1.15	1.03	1.03	0.89	0.92	0.89	0.86
Upper Hem Efficiency (%)	33.39	32.56	33.36	32.78	30.54	33.30	33.30	32.89	36.99	36.68	37.07
Lower Hem Efficiency (%)	19.13	18.91	19.86	19.71	18.14	18.33	18.33	19.80	19.80	19.54	19.30
T90(H)圆度	3.05	2.82	2.51	2.32	2.22	2.25	2.17	2.11	1.97	1.80	1.81
Gain 15deg (dBi)											
E1(XZ)波瓣宽度	42.00	43.00	43.00	44.00	45.00	46.00	46.00	47.00	47.00	49.00	49.00
E1(XZ)前后比	6.62	6.91	7.09	7.26	7.68	8.36	9.22	10.06	10.79	11.30	11.87
E2(YZ)波瓣宽度	39.00	40.00	40.00	44.00	44.00	40.00	40.00	44.00	45.00	45.00	44.00
E2(YZ)前后比	8.10	8.50	8.66	8.96	9.76	10.32	11.26	12.12	12.89	13.72	14.72
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	358.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00
Hc(XY)前后比	0.86	0.67	0.41	0.28	0.22	0.34	0.45	0.51	0.59	0.52	0.57