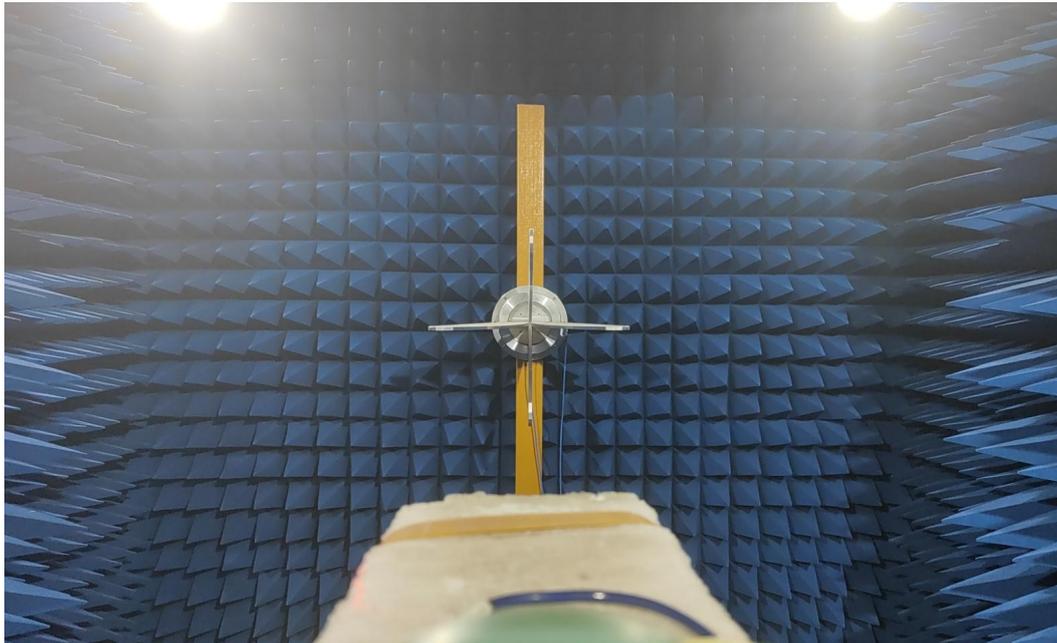


## 2. 4G-2.5G ANTENNA REPORT

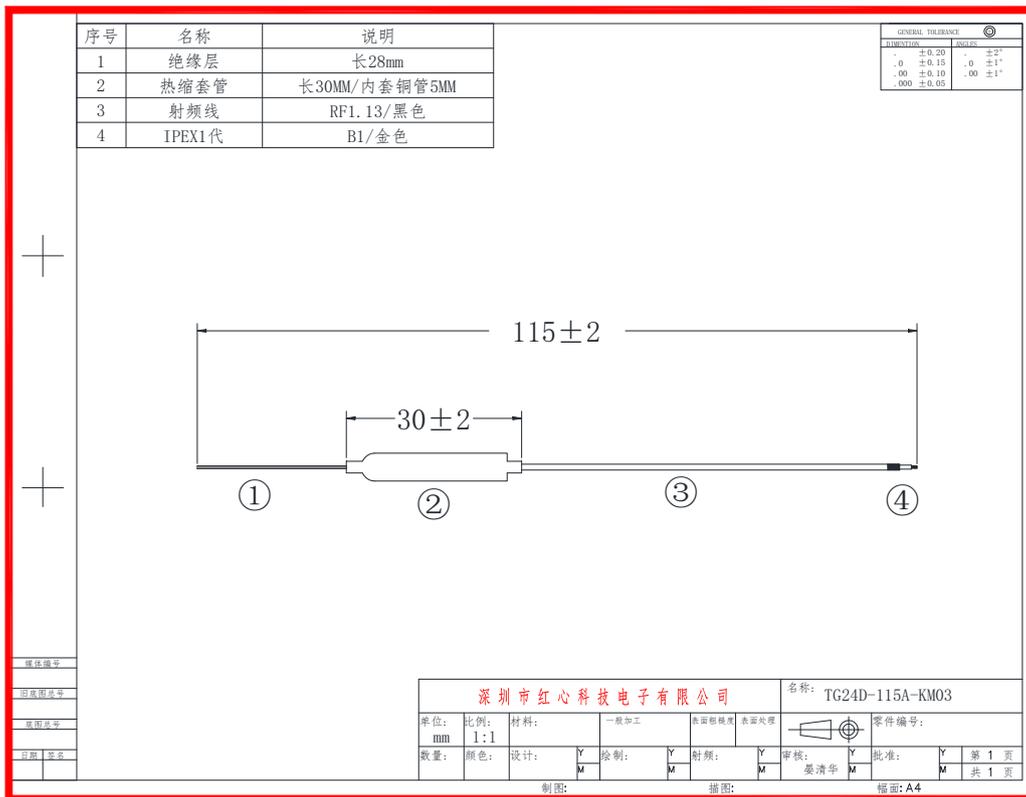
SPECIFICATIONS	
Frequency (MHz)	2400-2500
Peak Gain (dBi)	2.5
Average Gain (dBi)	2.4
VSWR	<2.0
Impedance ( $\Omega$ )	50
Antenna Type	Copper tube antenna
Polarization	Linear
Manufacture	Shenzhen Hongxin Technology Electronics Co.,Ltd



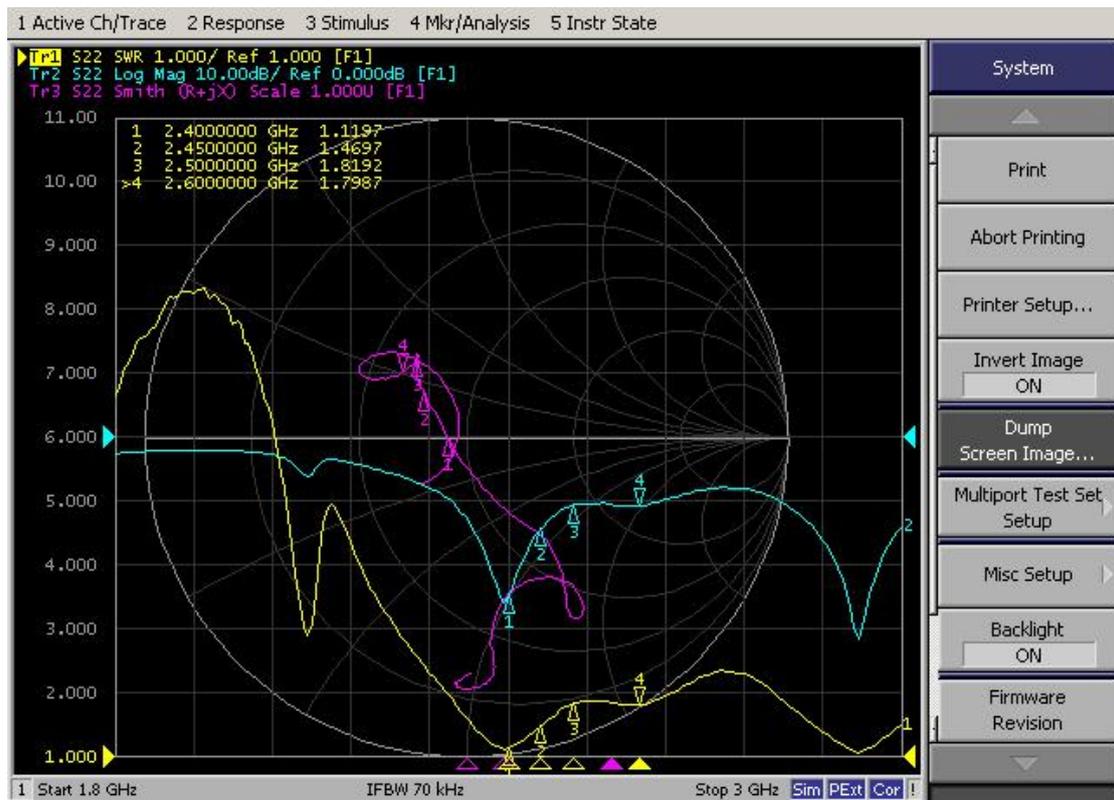
ANTENNA PHOTOSHOW :



ANTENNA SIZE :



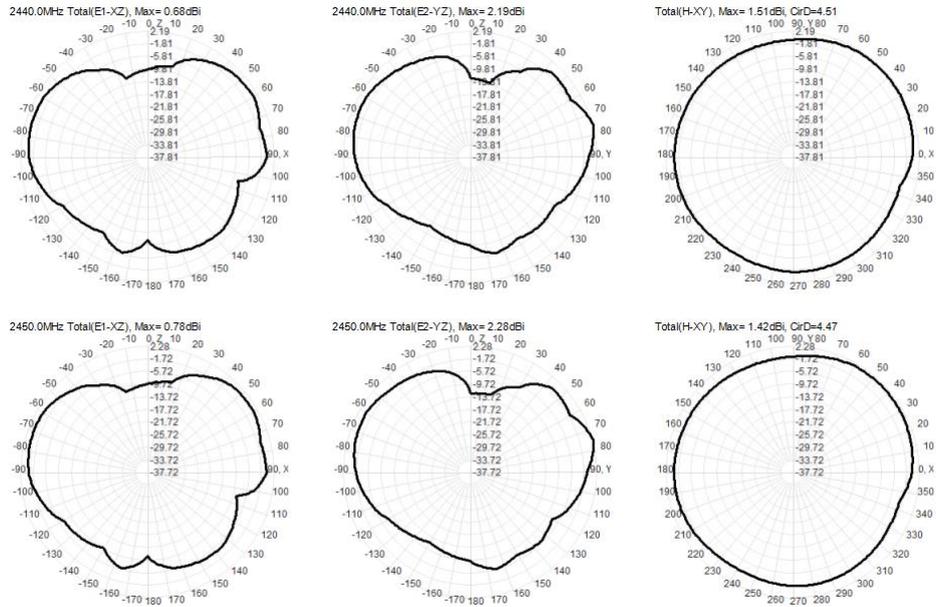
## ANTENNA ELECTRIC PARAMETER:



## Antenna efficiency and gain:

Frequency ID	1	2	3	4	5	6	7	8	9	20	21
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-2.47	-2.42	-2.39	-2.42	-2.47	-2.41	-2.41	-2.49	-2.59	-2.54	-2.60
Gain (dBi)	2.08	2.36	2.49	2.48	2.42	2.46	2.46	2.45	2.37	2.46	2.32
Efficiency (%)	56.68	57.31	57.63	57.33	56.60	57.39	57.44	56.34	55.14	55.67	54.90
Directivity (dB)	4.55	4.78	4.88	4.90	4.89	4.88	4.87	4.94	4.96	5.00	4.93
Peak Gain Position (Theta)	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
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 (%)	53.04	53.67	53.94	53.45	52.61	53.09	52.94	51.66	50.48	50.89	50.34
Efficiency PhiPol (%)	3.64	3.64	3.69	3.88	3.99	4.30	4.50	4.68	4.65	4.77	4.56
Upper Hem. Efficiency (%)	38.65	39.57	40.40	40.80	40.90	42.03	42.54	42.10	41.57	42.45	42.49
Lower Hem. Efficiency (%)	18.03	17.73	17.23	16.53	15.70	15.36	14.90	14.24	13.57	13.21	12.41
T90(H)圆度	3.33	3.73	4.16	4.39	4.51	4.47	4.59	4.86	5.24	5.57	5.85
Gain 15deg (dBi)											
E1(XZ)波瓣宽度	28.00	44.00	68.00	67.00	67.00	66.00	63.00	61.00	59.00	53.00	50.00
E1(XZ)前后比	7.65	7.28	6.92	6.62	6.27	5.89	5.71	5.47	5.24	5.17	5.31
E2(YZ)波瓣宽度	54.00	54.00	37.00	35.00	31.00	28.00	27.00	27.00	26.00	26.00	27.00
E2(YZ)前后比	8.60	8.71	8.81	8.72	8.57	8.41	8.12	7.97	7.89	7.77	7.63
最大增益处轴比(P)	31.80	32.16	30.02	29.40	32.36	42.65	33.92	26.59	22.09	19.26	17.63
顶点(Theta=0)处轴比(P)	50.90	31.40	26.17	25.85	24.69	23.49	19.02	17.23	15.71	13.62	12.89
仰角10度最差(大)轴比(P)	65.31	73.11	65.35	66.98	63.37	58.67	72.86	73.69	56.88	57.06	70.34
Hc(XY)波瓣宽度	330.00	311.00	234.00	225.00	223.00	225.00	230.00	237.00	244.00	252.00	258.00
Hc(XY)前后比	2.58	2.54	2.73	2.89	2.98	3.05	3.20	3.44	3.28	2.72	2.35
左旋圆极化效率(%)	29.56	29.66	29.16	29.08	28.85	29.70	30.06	29.69	29.45	30.06	29.71
右旋圆极化效率(%)	27.12	27.65	28.47	28.26	27.75	27.69	27.39	26.65	25.69	25.60	25.19

## 2440MHz 2D-Theta Pattern



## 2440MHz 3D-Horizontal Pattern

