

Antenna test report

Manufacturer: Shenzhen Kexin Wireless Technology Co., Ltd.

Specification Description: 蓝色T型双频PCB/RG1.13线 L: 49CM (1代端子)

Factory confirmation:

D e p a r t m e n t	R e v i e w	A p p r o v e
RF Department	刘景雄	李斌
Structure Department	谢东展	李斌
Quality Department	王飞	李斌

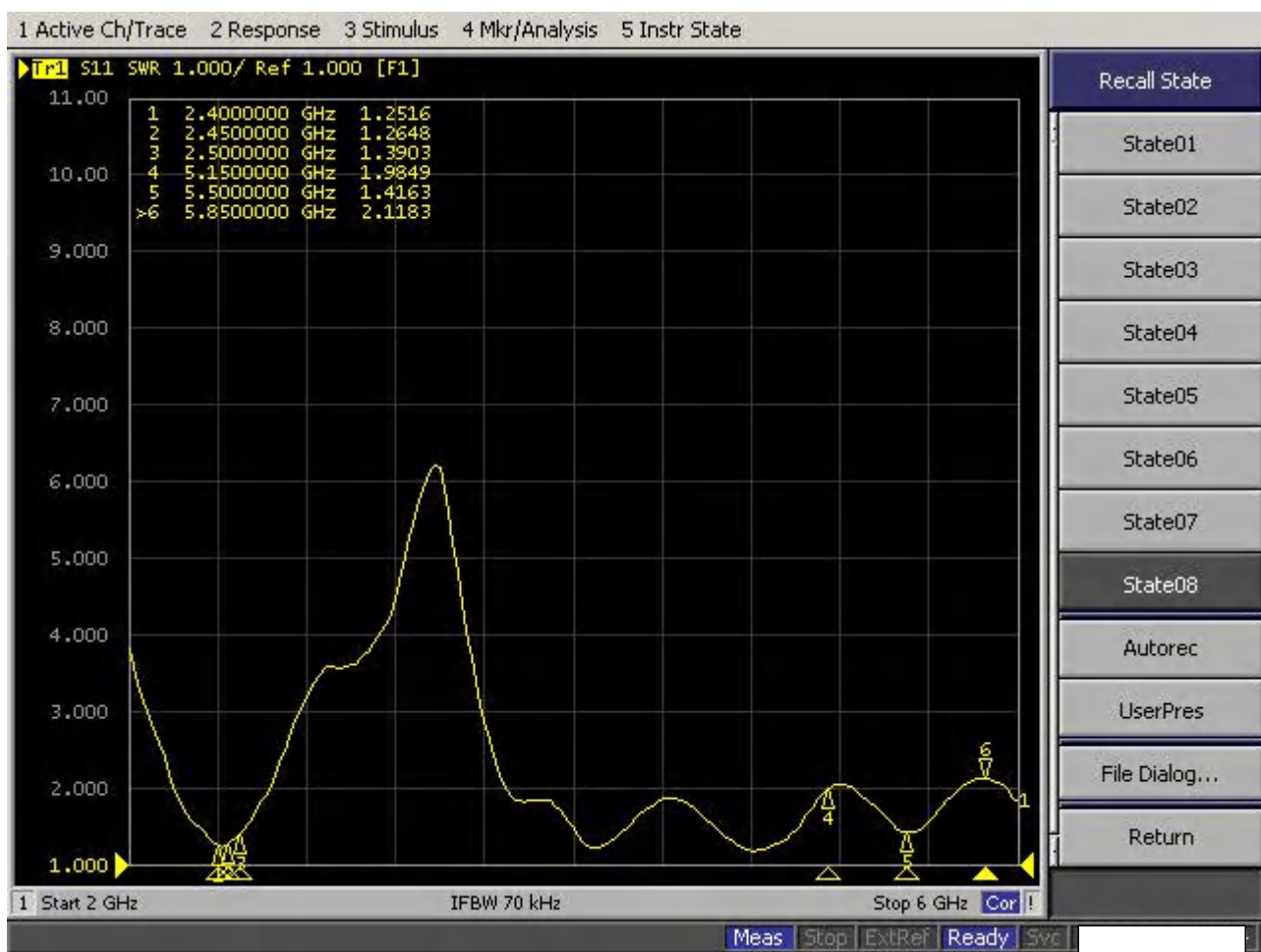
Client confirmation:

检 查	R e v i e	A p p r o v e

1. Product Image:

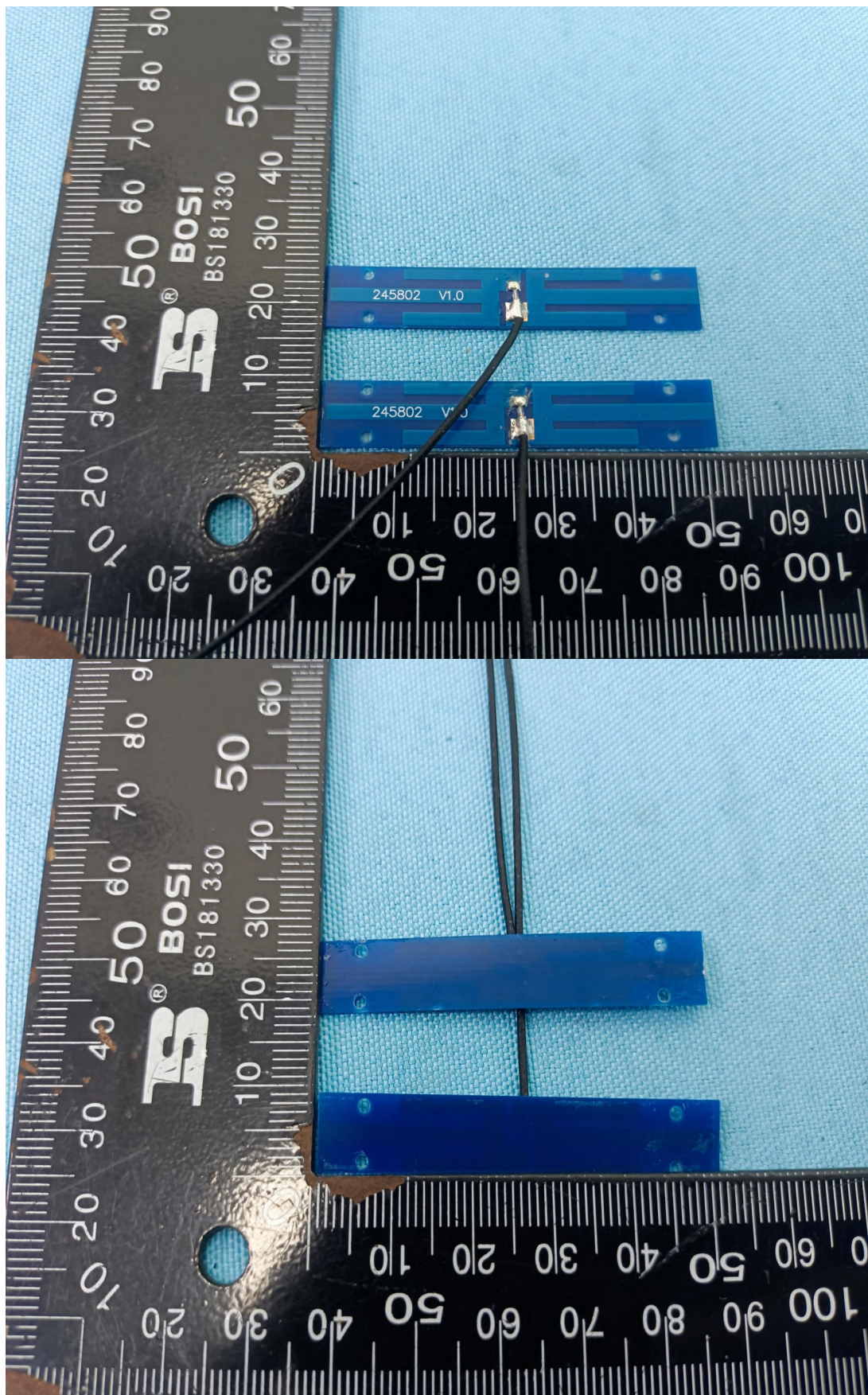


2. Electrical performance test report: VSWR:



3. P r o d u c t p e r f o r m a n c e p a r a m e t e r s :

电性能指标Electrical Specifications	
频率范围Frequency Range (MHz)	2400-2500/5150-5850
输入阻抗Input Impedence (Ω)	50
电压驻波比V.S.W.R	≤ 2.0 （仅供参考）
增益Gain (dBi)	4（仅供参考）
极化形式Polarization Type	垂直Vertical
最大功率Maximum power(W)	10W
垂直面波瓣角度Vertical lobe Angle（E）	45~60°
水平面波瓣角度Water plane lobe Angle（H）	360°
机械指标Mechanical Specifications	
天线材质Material	PCB
连接器型号Connect Type	IPEX(1代)
天线尺寸Size	51*9
工作温度Operating Temp	-20 ~ +65 °C



Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47				
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	2510.0	2520.0	2530.0	2540.0	2550.0	2560.0	2570.0	2580.0	2590.0	2600.0	2610.0	2620.0	2630.0	2640.0	2650.0	2660.0	2670.0	2680.0	2690.0	2700.0	2710.0	2720.0	2730.0	2740.0	2750.0	2760.0	2770.0	2780.0	2790.0	2800.0	2810.0	2820.0	2830.0	2840.0	2850.0	2860.0	2870.0	2880.0	2890.0	2900.0
Efficiency (dBi)	-1.19	-1.23	-1.38	-1.57	-1.80	-1.94	-2.01	-1.99	-1.84	-1.62	-1.55	-2.82	-2.80	-2.85	-2.68	-2.50	-2.38	-2.18	-2.21	-2.38	-2.47	-2.50	-2.32	-1.96	-1.71	-1.70	-1.98	-2.17	-2.21	-2.27	-2.08	-1.91	-2.02	-1.99	-2.22	-2.40	-2.19	-2.24	-2.41	-2.28	-2.56	-2.83	-2.71	-3.00	-2.97	-2.65	-2.75				
Gain (dBi)	2.81	2.90	2.91	2.91	2.76	2.58	2.38	2.24	2.29	2.43	2.44	3.39	3.43	3.28	3.17	3.59	3.92	4.00	3.81	3.80	3.70	3.39	3.03	3.28	3.48	3.53	3.22	3.15	3.31	3.25	3.14	3.08	3.01	2.90	2.97	2.89	2.96	3.06	2.90	2.98	2.89	2.92	3.24	2.91	3.09	3.35	3.04	3.05			
Efficiency (%)	76.00	75.27	72.80	69.73	66.14	63.98	62.99	63.30	65.53	68.83	70.04	52.25	52.43	51.93	53.82	56.19	57.75	60.55	60.06	57.78	56.62	56.19	58.68	63.69	67.47	67.66	63.34	60.68	60.14	59.31	61.91	64.34	62.74	63.19	61.19	57.49	60.34	59.67	57.36	59.10	55.43	52.16	53.54	50.10	50.46	54.32	53.06	53.06			
Directivity (dB)	4.00	4.14	4.29	4.48	4.48	4.55	4.52	4.38	4.23	4.13	4.05	3.98	6.21	6.24	6.13	5.86	6.09	6.30	6.18	6.02	6.18	6.17	5.89	5.34	5.24	5.20	5.22	5.21	5.32	5.52	5.52	5.22	5.50	5.03	4.89	5.10	5.29	5.15	5.31	5.32	5.26	5.45	5.74	5.95	5.01	6.06	6.00	5.79			
Peak Gain Position (Theta)	148.00	148.00	148.00	148.00	148.00	148.00	148.00	148.00	148.00	147.00	147.00	146.00	144.00	144.00	145.00	4.00	2.00	1.00	146.00	146.00	147.00	148.00	149.00	92.00	11.00	11.00	148.00	148.00	92.00	93.00	150.00	55.00	130.00	131.00	148.00	149.00	149.00	105.00	106.00	143.00	143.00	145.00	146.00	146.00	107.00	113.00					
Peak Gain Position (Phi)	259.00	260.00	260.00	260.00	264.00	266.00	266.00	267.00	266.00	266.00	266.00	257.00	256.00	256.00	256.00	76.00	83.00	209.00	259.00	260.00	259.00	259.00	259.00	260.00	85.00	262.00	256.00	259.00	259.00	84.00	83.00	160.00	75.00	94.00	94.00	258.00	259.00	258.00	271.00	271.00	85.00	84.00	257.00	258.00	258.00	270.00	270.00				
Efficiency ThetaPol (%)	19.38	19.21	18.43	17.29	16.06	15.20	14.80	14.98	15.90	17.20	17.80	9.31	9.51	9.57	9.96	10.26	10.50	11.45	12.10	12.29	12.42	12.43	12.72	13.52	14.35	14.93	14.54	14.57	14.80	14.51	14.94	15.25	14.82	15.26	14.99	14.05	14.43	13.99	13.34	13.79	12.98	12.30	12.63	11.94	12.21	13.25	12.92				
Efficiency PhiPol (%)	56.62	56.06	54.36	52.45	50.08	48.78	48.19	48.32	49.63	51.63	52.24	42.94	42.92	42.36	43.86	45.93	47.25	49.41	47.97	45.48	44.20	43.75	45.96	50.16	53.12	52.73	48.79	46.11	45.34	44.81	46.97	49.10	47.91	47.93	46.21	43.44	45.93	45.67	44.02	45.32	42.45	39.86	40.91	38.17	38.25	41.07	40.14				
Upper Hem. Efficiency (%)	37.37	36.19	34.41	32.37	30.40	29.26	28.84	29.36	30.95	33.10	34.13	23.98	24.84	25.46	27.00	28.20	28.48	29.28	29.28	28.86	28.89	29.26	30.82	32.71	33.79	33.81	32.00	30.70	30.12	28.89	29.63	30.58	30.03	30.92	30.55	28.74	29.81	29.00	26.99	26.82	24.58	23.17	24.38	23.21	23.20	24.53	23.58				
Lower Hem. Efficiency (%)	38.63	39.08	38.39	37.36	35.74	34.72	34.16	33.94	34.59	35.73	35.91	28.28	27.59	26.47	26.82	27.99	29.27	31.27	30.78	28.91	27.73	26.92	27.85	30.98	33.67	33.85	31.34	29.90	30.01	30.42	32.63	33.76	32.71	32.28	30.65	28.75	30.53	30.66	30.37	28.28	30.85	28.99	27.17	26.89	27.26	29.39	29.48				

Q(H)圆度	17.05	17.90	18.20	17.86	17.25	16.94	16.68	16.43	16.46	16.02	14.86	23.03	26.44	27.08	28.55	28.46	24.46	23.54	22.98	21.44	20.69	19.25	19.01	18.78	18.74	17.56	18.19	18.73	17.89	17.03	16.87	16.92	17.73	17.65	18.01	18.31	17.70	17.13	17.89	19.13	20.42	21.30	21.09	18.87	17.31	17.49	17.34		
Gain 15deg (dBi)																																																	
E1(XZ)波谱宽度	89.00	89.00	89.00	89.00	86.00	81.00	75.00	74.00	78.00	81.00	82.00	55.00	53.00	42.00	33.00	31.00	30.00	33.00	40.00	56.00	72.00	77.00	24.00	67.00	59.00	61.00	69.00	73.00	23.00	24.00	30.00	26.00	28.00	27.00	42.00	43.00	47.00	52.00	28.00	53.00	52.00	52.00	54.00	33.00	31.00	30.00	29.00		
E1(XZ)前后比	0.23	0.39	0.58	0.52	0.36	0.57	0.88	0.94	0.78	0.76	1.02	0.59	1.72	3.09	4.24	4.91	5.13	4.84	4.26	3.07	0.96	0.20	0.07	0.98	1.69	1.67	1.10	0.47	0.08	0.03	0.21	0.40	0.18	0.19	0.14	0.23	0.03	0.13	0.72	1.16	1.00	0.57	0.71	1.49	2.15	2.47	2.69		
E2(YZ)波谱宽度	86.00	83.00	81.00	78.00	75.00	72.00	71.00	70.00	69.00	68.00	67.00	35.00	33.00	33.00	35.00	42.00	41.00	72.00	73.00	26.00	26.00	30.00	29.00	33.00	33.00	32.00	25.00	26.00	28.00	78.00	84.00	84.00	151.00	148.00	81.00	40.00	81.00	79.00	129.00	44.00	38.00	35.00	34.00	35.00					
E2(YZ)前后比	0.03	0.04	0.05	0.06	0.06	0.05	0.05	0.07	0.09	0.11	0.12	0.18	0.17	0.15	0.29	0.98	1.09	0.81	0.35	0.16	0.09	0.02	0.20	0.55	0.61	0.49	0.05	0.21	0.35	0.26	0.00	0.07	0.66	0.49	0.00	0.00	0.31	0.97	0.90	0.54	0.55	0.20	0.22	0.52	0.93	1.19	0.89		
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	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	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	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
Hc(XY)波谱宽度	84.00	84.00	84.00	83.00	82.00	82.00	82.00	81.00	79.00	78.00	42.00	42.00	43.00	43.00	41.00	40.00	43.00	43.00	40.00	40.00	43.00	43.00	40.00	43.00	43.00	44.00	44.00	43.00	43.00	43.00	44.00	44.00	44.00	43.00	42.00	44.00	45.00	45.00	42.00	43.00	44.00	43.00	39.00	38.00	38.00	40.00			
Hc(XY)前后比	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.35	0.00	0.00	0.75	1.60	1.66	0.98	0.07	0.00	0.00	0.22	0.97	1.48	1.55	1.16	0.60	0.18	0.10	0.45	0.88	0.99	0.74	0.26	0.01	0.11	0.23	0.46	0.59	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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