

深圳市商庆科技有限公司

SHENZHEN SUNKING TECHNOLOGY CO.,LTD

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No. 5 Tiansha Road, Tangxia Town, Dongguan City, Guangdong Province,China

产品承认书/SPECIFICATION FOR APPROVAL

客 户 :

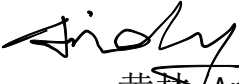
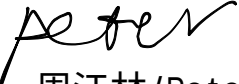
品 名 规 格
DESCRIPTION: FPC天线 IPEX-1 L=150MM

料 号
PART NO.: SK-GX RF-3613-2. 4&5. 8

客 户 料 号
CUS PART NO.:

日 期
D A T E: 2026. 03. 19

商庆呈样签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT
 黄林/Andy	 周江林/Peter	 黄文刚/Goddy

客户承认签章

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

承认书一式三份，惠蒙贵司承认签章

规格书/SPECIFICATION FOR APPROVAL

产品品名：FPC内置天线 IPEX-1 L=150MM

规格描述：

FPC WIFI天线 IPEX-1 线长150MM

1. 产品外观图-实物图片



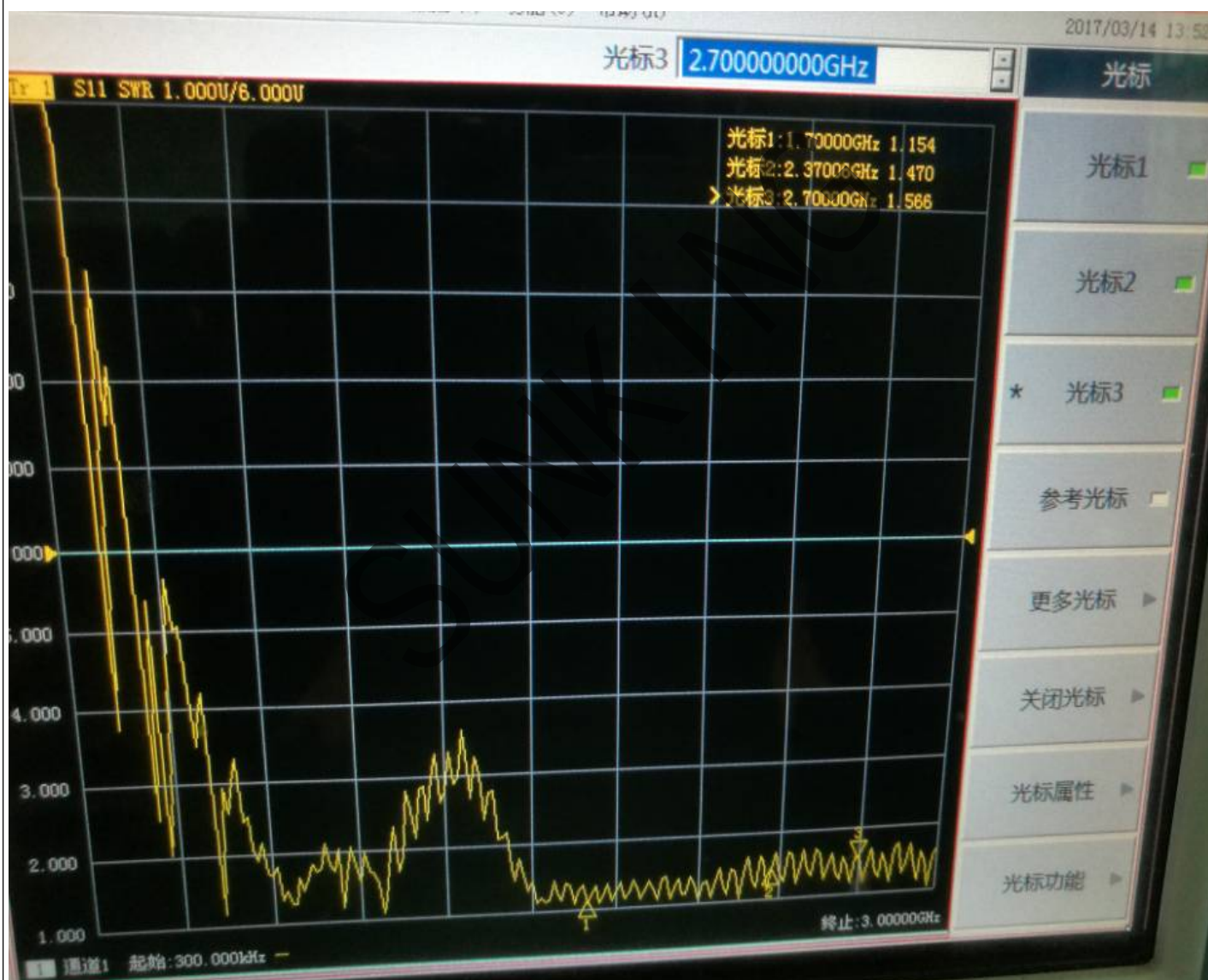
2. 产品参数:

品名 项目	2400-5800GHz 天线	Model	2400-5800GHz Antenna
频率范围 (MHz)	2400-5800	Frequency (MHz)	2400-5800
带宽 (MHz)	100 /700	Bandwidth (MHz)	100 /700
极化方式	线极化	Polarization Type	linear polarization
天线增益 (dBi)	3 & 5 dBi	Gain (dBi)	3 & 5 dBi
电压驻波比	≤2.0	VSWR	≤2.0
输入阻抗 (Ω)	50	Input Impedance (Ω)	50
电缆线长度 (mm)	/	Cable length (mm)	/
电缆线颜色	/	Cable Colour	/
接口形式	N-J	Connector Type	N-J
工作温度 (℃)	-40~+85	Operation temperature (℃)	-40~+85
存储温度 (℃)	-40~+85	Store temperat (℃)	-40~+85

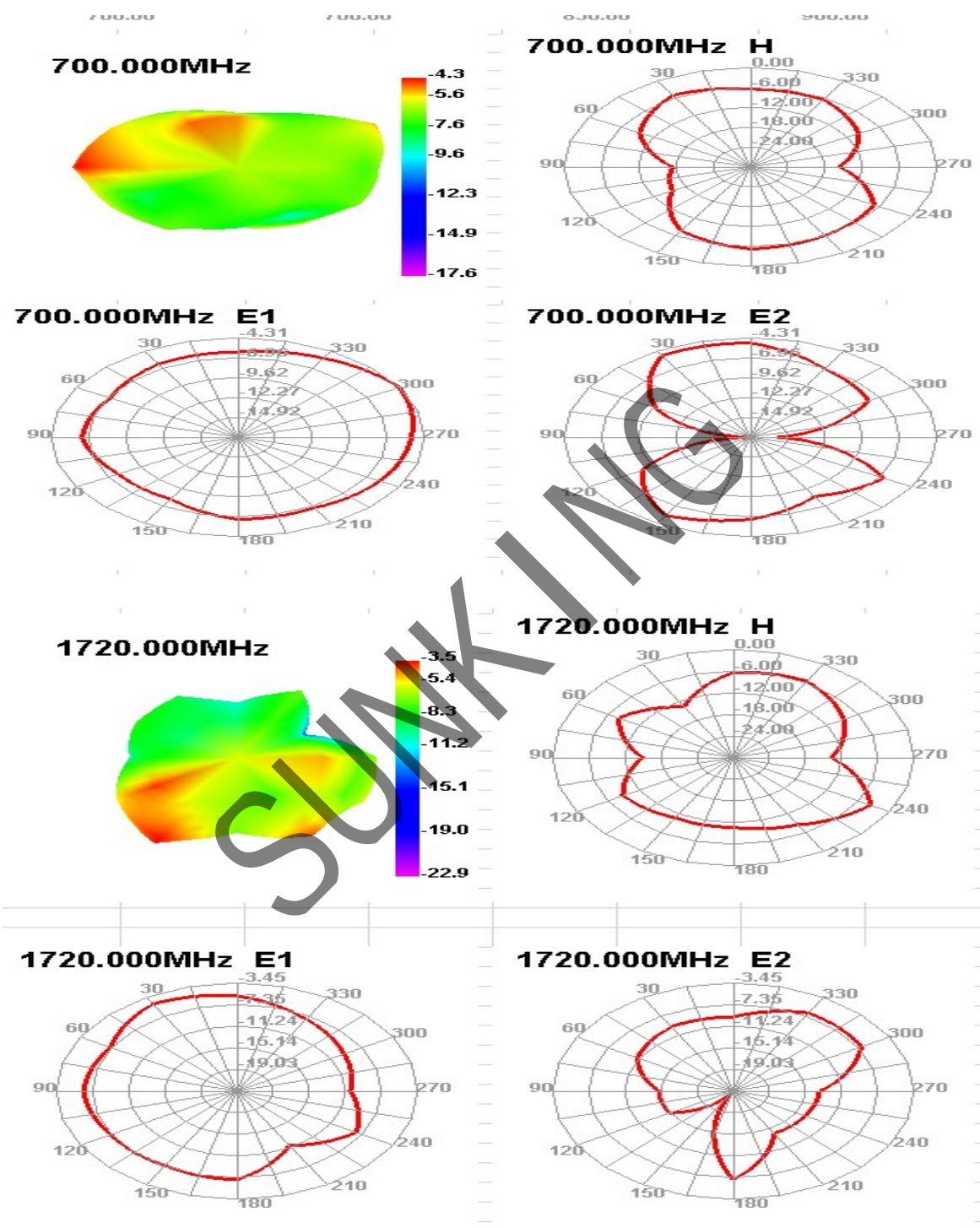
3. Antenna Performance Testing and Parameters

3.1. VSWR :Measurement frequency points and VSWR value

Frequency Band(MHz)	2400	2700	5150	5800
VSWR	1.1366	1.0563	1.7408	1.8857



Efficiency and Gain



Efficiency and Gain

1710.00MHz - 2690.00MHz Gain



1710.00MHz - 2690.00MHz Efficiency



Efficiency and Gain

700.00MHz - 960.00MHz Gain



2400 - 5800.00MHz Efficiency



测试增益数据分析

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	37.94	-4.21	2.26	0.11	14.137	23.804	2.26	-16.92	6.47	0	45.86	46.02
2410	40.22	-3.96	2.55	0.4	14.951	25.269	2.55	-17.12	6.5	15	46.04	46.37
2420	38.37	-4.16	2.34	0.19	14.334	24.034	2.34	-18.63	6.5	15	45.95	46.25
2430	40.01	-3.98	2.47	0.32	15.142	24.87	2.47	-18.77	6.45	15	45.92	46.3
2440	36.12	-4.42	2.01	-0.14	13.895	22.221	2.01	-19.59	6.44	15	45.94	46.38
2450	37.21	-4.29	2.08	-0.07	14.559	22.655	2.08	-21.47	6.37	15	45.94	46.47
2460	38.78	-4.11	2.13	-0.02	15.404	23.373	2.13	-24.21	6.24	15	45.88	46.51
2470	39.95	-3.98	2.09	-0.06	16.071	23.882	2.09	-24.57	6.07	15	45.86	46.49
2480	41.76	-3.79	2.26	0.11	17.063	24.694	2.26	-20.46	6.06	15	45.98	46.69
2490	47.6	-3.22	2.67	0.52	19.954	27.649	2.67	-17.04	5.9	15	46.39	46.87
2500	40.23	-3.95	1.81	-0.34	17.382	22.852	1.81	-19.14	5.76	30	46.23	47.02

2400.00MHz - 2500.00MHz Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	68.85	-1.62	4.51	2.36	35.219	33.631	4.51	-19.3	6.14	60	54.48	54.12
5200	71.74	-1.44	4.77	2.62	35.83	35.912	4.77	-18.96	6.21	45	54.14	53.77
5250	67.29	-1.72	4.69	2.54	32.964	34.33	4.69	-22.41	6.41	45	53.86	53.44
5300	72.74	-1.38	5.09	2.94	34.357	38.386	5.09	-19.92	6.47	45	54.19	53.75
5350	72.84	-1.38	5.2	3.05	33.18	39.656	5.2	-23.75	6.58	60	54.18	53.66
5400	75.45	-1.22	5.61	3.46	33.131	42.322	5.61	-22.08	6.83	60	54.95	54.05
5450	73.07	-1.36	5.83	3.68	30.969	42.099	5.83	-19.89	7.19	45	55.4	54.17
5500	70.84	-1.5	5.87	3.72	29.115	41.722	5.87	-17.77	7.36	45	56.09	54.42
5550	72.84	-1.38	5.92	3.77	28.986	43.858	5.92	-19.36	7.29	45	56.74	54.95
5600	68.62	-1.64	5.57	3.42	26.464	42.152	5.57	-20.79	7.21	45	56.95	55.35
5650	62.95	-2.01	5.21	3.06	23.653	39.298	5.21	-20.39	7.22	45	56.51	55.41
5700	61.03	-2.14	4.93	2.78	21.974	39.055	4.93	-19.24	7.07	45	56.56	55.74
5750	59.45	-2.26	5.04	2.89	21.394	38.052	5.04	-19.76	7.3	45	56.61	55.75
5800	56.19	-2.5	4.71	2.56	20.628	35.559	4.71	-22.62	7.22	45	56.74	55.72
5850	54.21	-2.66	4.29	2.14	20.944	33.264	4.29	-20.36	6.95	45	57.52	56.31

5150.00MHz - 5850.00MHz Gain

1.13BLACKL=150MM+First-generation terminal