



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书 Approval Sheet

客户名称 Customer	昱科	日期 Data	2025/05/14
产品名称 Product	WiFi副天线	客户机型 Models	N1572YD
料号 P/N	F1398-14RG-260	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81四代端子灰色同轴线; L=260mm		

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
	
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

文件修订履历表

版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



Content		
NO.	Proect	Page NO.
1	Specification	3
2	WiFi Ant Test Information	4
3	Antenna Placement	5
4	Test Data	6~~9
5	Antenna Assembly	10
6	Notes	11



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	48%@2.4G; 44%@5G
Peak Gain	1.8dBi@2.4G; 2.6dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

WiFi Ant Test Information

Frequency	2.4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		
Driver version information		

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Antenna Placement



地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

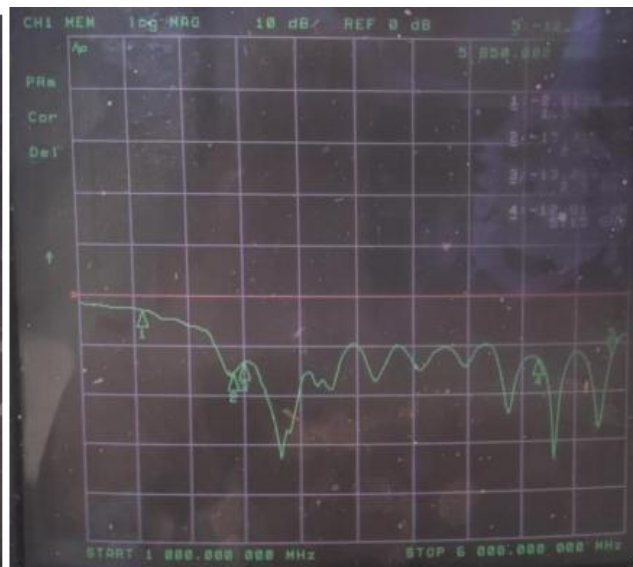
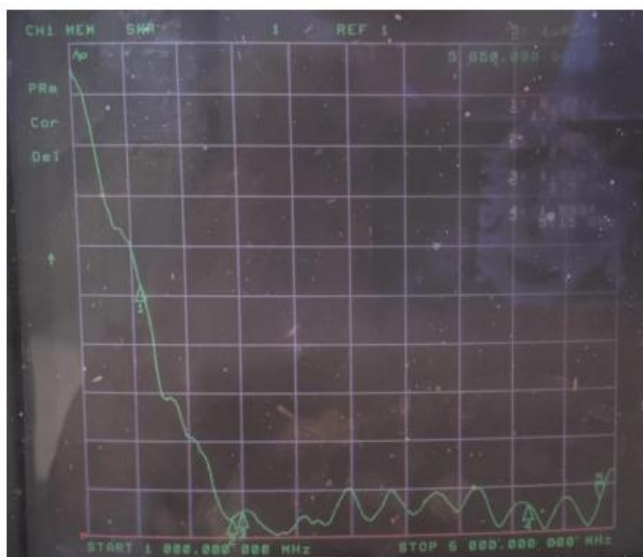
Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.40	1.55	1.59	1.62
Return Loss (DB)	-15.48	-13.26	-12.81	-12.50

WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	14.75	CH1 11Mbps	-80.28
	2437	CH6 11Mbps	14.99	CH6 11Mbps	-80.73
	2467	CH11 11Mbps	14.87	CH11 11Mbps	-80.33
802.11a	TRP		TIS		
	5180	CH36 54Mbps	14.24	CH36 54Mbps	-69.67
	5300	CH60 54Mbps	14.05	CH60 54Mbps	-70.74
	5805	CH161 54Mbps	14.63	CH161 54Mbps	-71.23

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Efficiency Table

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	43.21	-3.64	0.97	-1.18	25.121	18.087
2410	42.76	-3.69	1.03	-1.12	24.784	17.976
2420	43.52	-3.61	0.94	-1.21	25.118	18.399
2430	39.98	-3.98	0.52	-1.63	23.268	16.71
2440	39.5	-4.03	0.31	-1.84	22.908	16.591
2450	42.88	-3.68	0.81	-1.34	24.954	17.929
2460	46.44	-3.33	1.41	-0.74	27.078	19.357
2470	42.78	-3.69	1.28	-0.87	25.018	17.764
2480	43.85	-3.58	1.41	-0.74	25.448	18.405
2490	47.47	-3.24	1.75	-0.4	27.276	20.192
2500	48.83	-3.11	1.87	-0.28	27.762	21.066
Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	32.13	-4.93	-1.56	-3.71	20.987	11.145
5170	31.03	-5.08	-1.74	-3.89	20.29	10.741
5190	33.69	-4.72	-1.41	-3.56	22.161	11.53
5210	35.86	-4.45	-0.96	-3.11	23.67	12.194
5230	33.09	-4.8	-1.46	-3.61	21.761	11.326
5250	42.22	-3.74	-0.31	-2.46	27.602	14.618
5270	39.06	-4.08	-0.26	-2.41	25.623	13.436
5290	45.47	-3.42	0.62	-1.53	29.907	15.561
5310	39.6	-4.02	-0.12	-2.27	26.052	13.548
5330	41.79	-3.79	-0.05	-2.2	27.68	14.111
5350	43.24	-3.64	0.31	-1.84	28.937	14.301
5370	40.51	-3.92	0.02	-2.13	27.036	13.479
5390	37.07	-4.31	-0.61	-2.76	24.619	12.447
5410	41.59	-3.81	-0.04	-2.19	27.591	14.004
5430	40.46	-3.93	0.22	-1.93	27.047	13.418
5450	41.09	-3.86	0.35	-1.8	27.453	13.64
5470	39.78	-4	0.47	-1.68	26.423	13.354
5490	38.07	-4.19	0.65	-1.5	25.343	12.723
5510	39.39	-4.05	1.2	-0.95	26.319	13.07
5530	40.67	-3.91	1.63	-0.52	27.352	13.316
5550	42.6	-3.71	2	-0.15	28.925	13.679
5570	44.38	-3.53	2.46	0.31	30.299	14.076
5590	43.52	-3.61	2.5	0.35	29.741	13.782
5610	44.97	-3.47	2.67	0.52	30.807	14.161
5630	38.41	-4.16	1.97	-0.18	26.209	12.202
5650	42.39	-3.73	2.08	-0.07	28.939	13.45
5670	44.05	-3.56	1.98	-0.17	29.781	14.269
5690	42.55	-3.71	1.48	-0.67	28.557	13.994
5710	43.98	-3.57	1.09	-1.06	29.467	14.515
5730	44.03	-3.56	1.06	-1.09	29.497	14.537
5750	39.9	-3.99	0.57	-1.58	26.753	13.147
5770	42.95	-3.67	0.82	-1.33	28.758	14.188
5790	37.29	-4.28	0.56	-1.59	24.987	12.298
5810	37.98	-4.2	1.24	-0.91	25.759	12.224
5830	36.35	-4.4	1.39	-0.76	24.963	11.383
5850	39.94	-3.99	1.83	-0.32	27.729	12.212

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

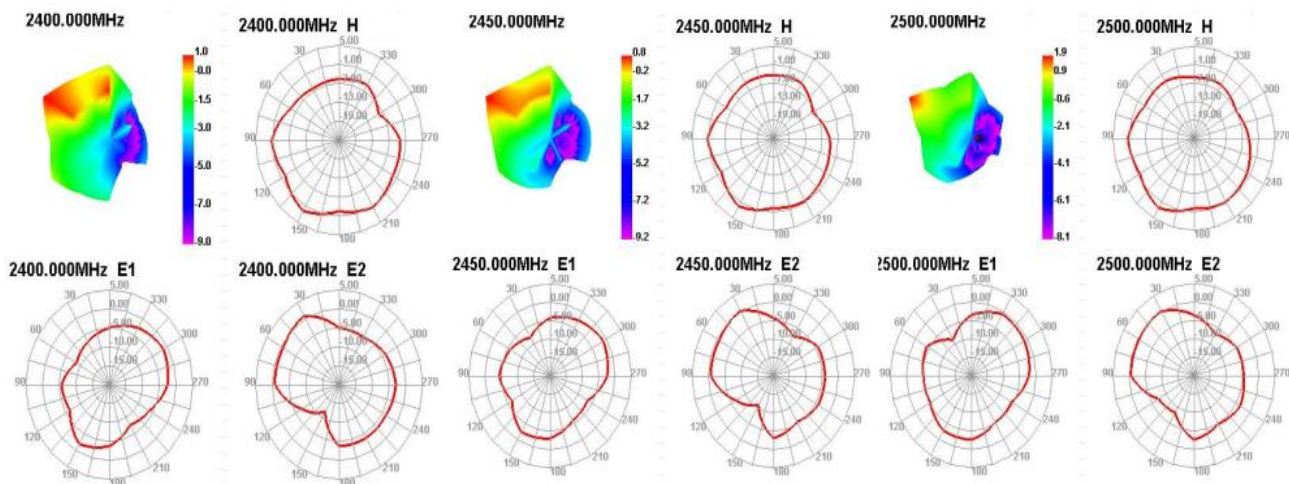
Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



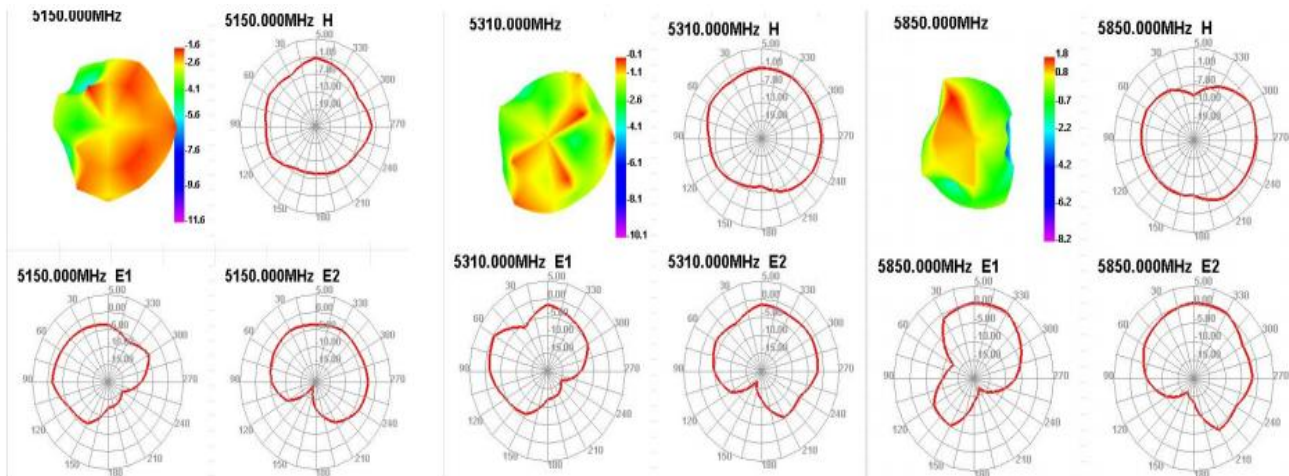
深圳星源创科技有限公司

ANTENNA Shen Zhen Xing Yuan Chuang Technology Co., Ltd

Radiation Pattern(2.4G)



Radiation Pattern(5G)



BT Test

BT

测试环境：开放空间(通道)

测试工具：蓝牙音响

测试距离：10/m

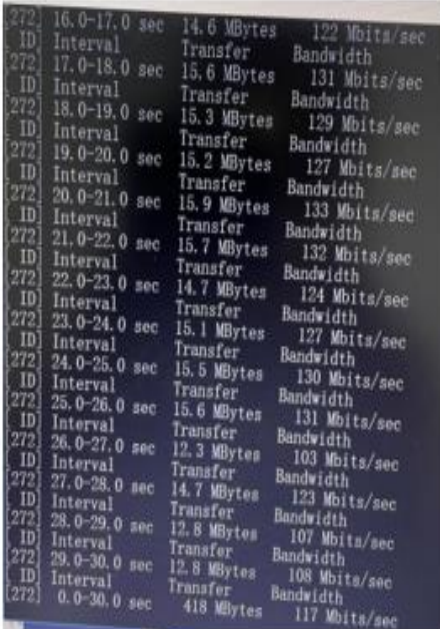
结果：播放音乐流畅，无杂音。

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

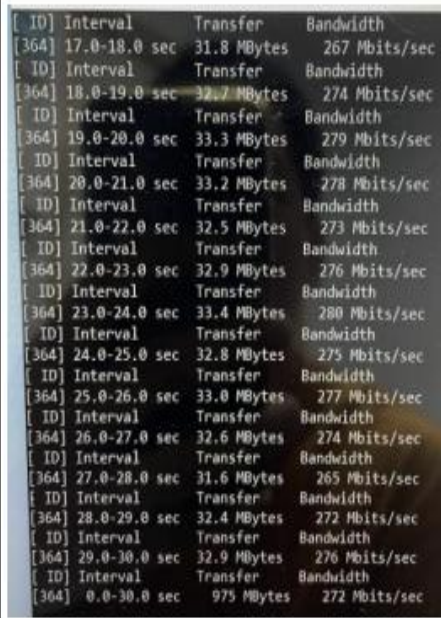
Address:1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com

Throughput test (2.4G)

上行	108M	下行	117M
图片		图片	

Throughput test (5G)

上行	272M	下行	264M
图片		图片	

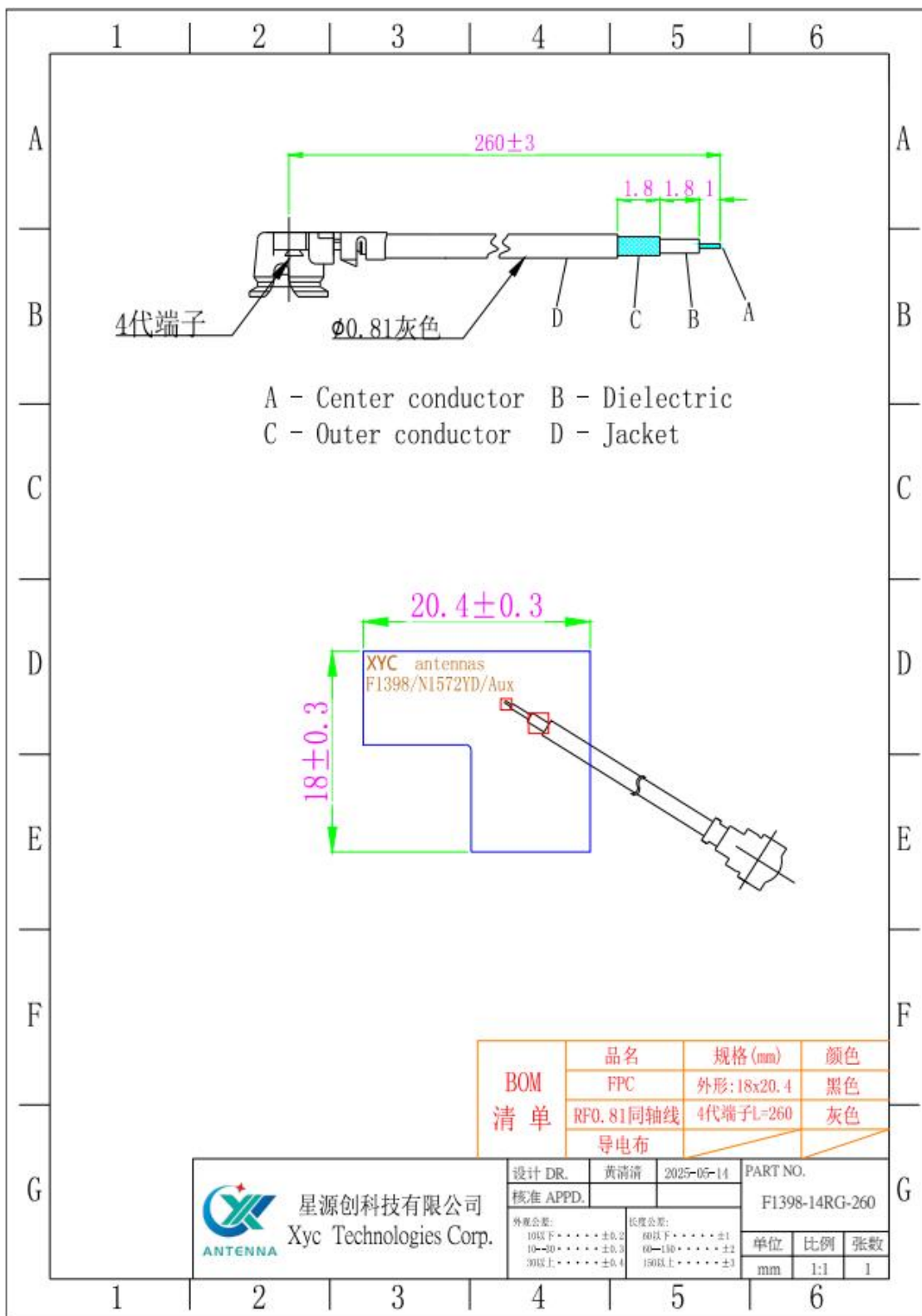
地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



Antenna Assembly

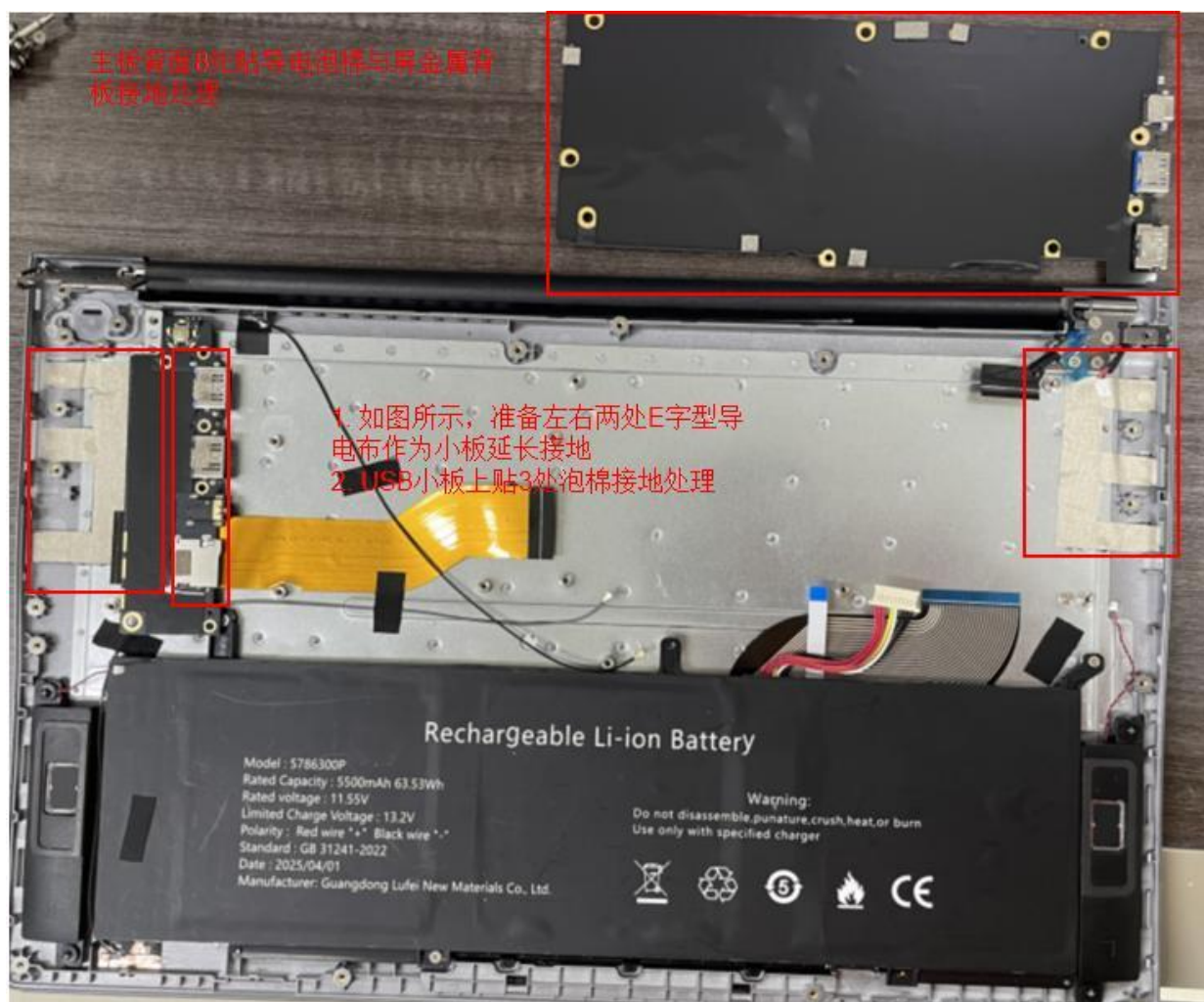


地址: 深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com

Notes



地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address: 1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com