



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主天线	客户机型 Models	N1572YD
料号 P/N	F1397-14RB-180	客户料号 Customer P/N	
规格描述 Specifications	黑色FPC; RF0.81四代端子黑色同轴线; L=180mm		

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



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi; 5GWiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	59%@2.4G; 49%@5G
Peak Gain	3.0dBi@2.4G; 3.2dBi@5G

1.2 Physical Properties

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

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WiFi Ant Test Information

Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		
Driver version information		

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Antenna Placement



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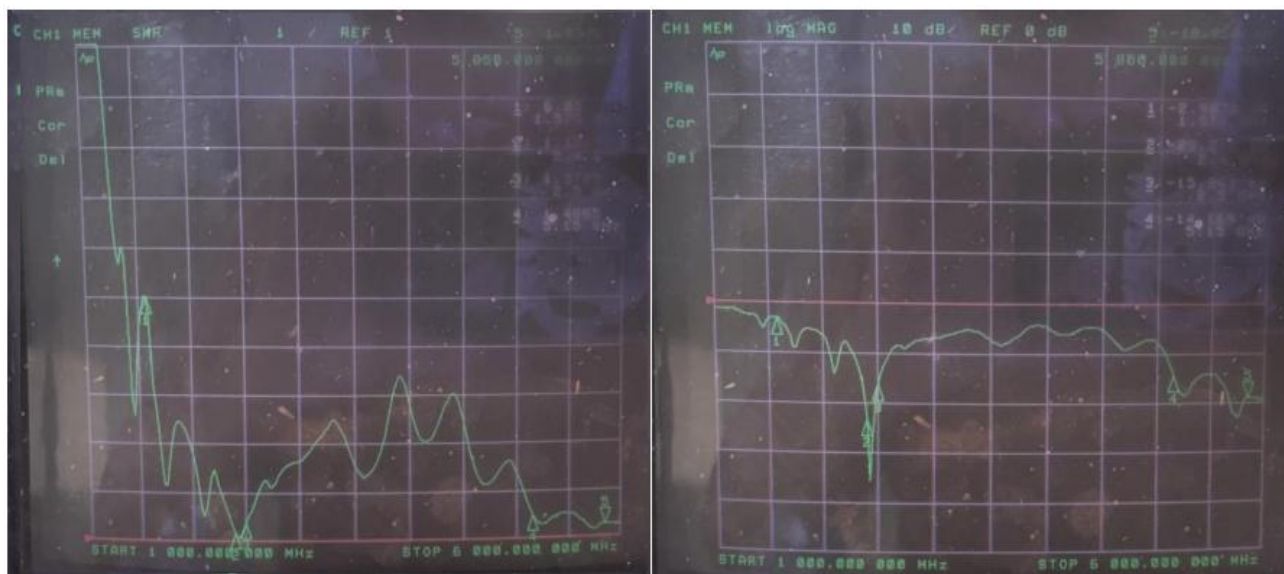


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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.15	1.37	1.48	1.25
Return Loss (DB)	-23.22	-15.96	-14.16	-18.25

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

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Efficiency Table

Passive Test For WIFI2.4						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
2400	54.31	-2.65	2.17	0.02	36.994	17.314
2410	54.41	-2.64	2.24	0.09	37.053	17.359
2420	56.24	-2.5	2.58	0.43	38.525	17.716
2430	53.57	-2.71	2.49	0.34	36.823	16.745
2440	53.83	-2.69	2.6	0.45	37.136	16.696
2450	55.93	-2.52	2.74	0.59	38.544	17.39
2460	59.4	-2.26	2.97	0.82	40.927	18.471
2470	57.41	-2.41	2.87	0.72	39.222	18.19
2480	57.4	-2.41	2.85	0.7	38.956	18.439
2490	59.05	-2.29	3.06	0.91	39.844	19.207
2500	59.78	-2.23	3.07	0.92	40.487	19.293
Passive Test For WIFI5G						
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)
5150	30.15	-5.21	0.62	-1.53	13.681	16.469
5170	28.06	-5.52	0.23	-1.92	12.758	15.302
5190	33.26	-4.78	1.36	-0.79	14.907	18.355
5210	33.36	-4.77	1.87	-0.28	14.716	18.645
5230	33.48	-4.75	1.86	-0.29	14.795	18.681
5250	37.57	-4.25	2.36	0.21	16.432	21.142
5270	38.38	-4.16	2.71	0.56	16.431	21.944
5290	40.22	-3.96	3.2	1.05	16.944	23.274
5310	35.98	-4.44	2.81	0.66	14.912	21.067
5330	34.45	-4.63	2.25	0.1	14.478	19.97
5350	36.61	-4.36	2.43	0.28	15.374	21.232
5370	32.95	-4.82	2.03	-0.12	13.654	19.297
5390	31.4	-5.03	1.55	-0.6	13.136	18.266
5410	34.07	-4.68	1.21	-0.94	14.525	19.548
5430	36.14	-4.42	1.27	-0.88	15.74	20.397
5450	37.06	-4.31	1.3	-0.85	16.355	20.709
5470	38.78	-4.11	1.16	-0.99	17.2	21.577
5490	37.05	-4.31	0.91	-1.24	16.541	20.507
5510	39.4	-4.05	0.94	-1.21	17.638	21.76
5530	40.27	-3.95	1.08	-1.07	17.892	22.378
5550	44.08	-3.56	1.66	-0.49	19.405	24.678
5570	45.28	-3.44	1.73	-0.42	19.511	25.766
5590	44.59	-3.51	1.78	-0.37	18.911	25.679
5610	44.17	-3.55	2.26	0.11	18.377	25.793
5630	40.21	-3.96	2.23	0.08	16.523	23.683
5650	42.35	-3.73	2.24	0.09	17.466	24.885
5670	46.48	-3.33	2.51	0.36	19.052	27.431
5690	40.07	-3.97	2.12	-0.03	16.335	23.737
5710	46.36	-3.34	2.5	0.35	19.295	27.068
5730	44.21	-3.55	1.82	-0.33	18.602	25.604
5750	42.66	-3.7	1.15	-1	18.282	24.382
5770	45.08	-3.46	1.15	-1	19.758	25.319
5790	42.63	-3.7	0.72	-1.43	18.851	23.775
5810	44.67	-3.5	1.08	-1.07	19.973	24.698
5830	46.12	-3.36	1.21	-0.94	20.497	25.622
5850	49.97	-3.01	1.37	-0.78	21.752	28.214

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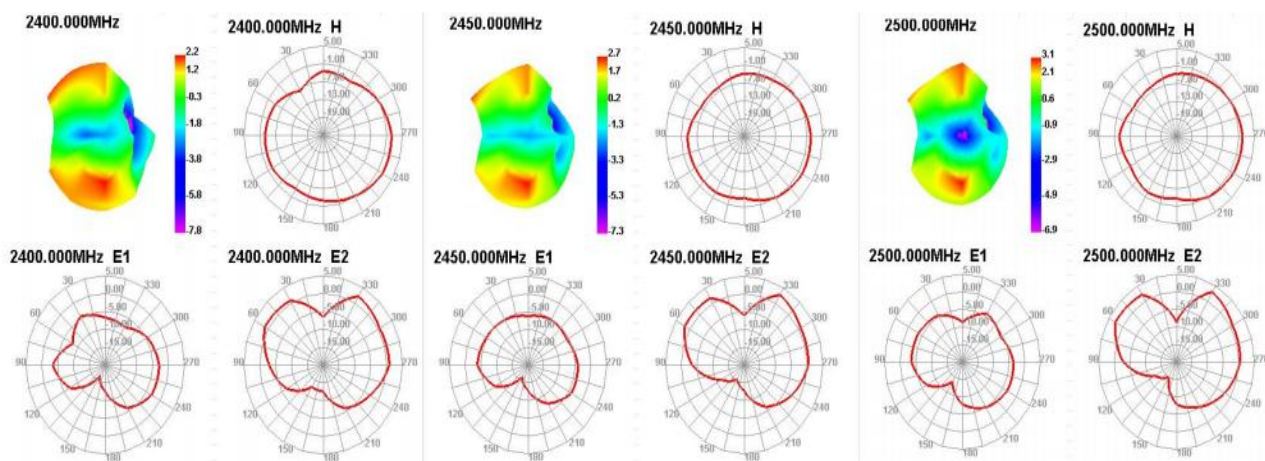
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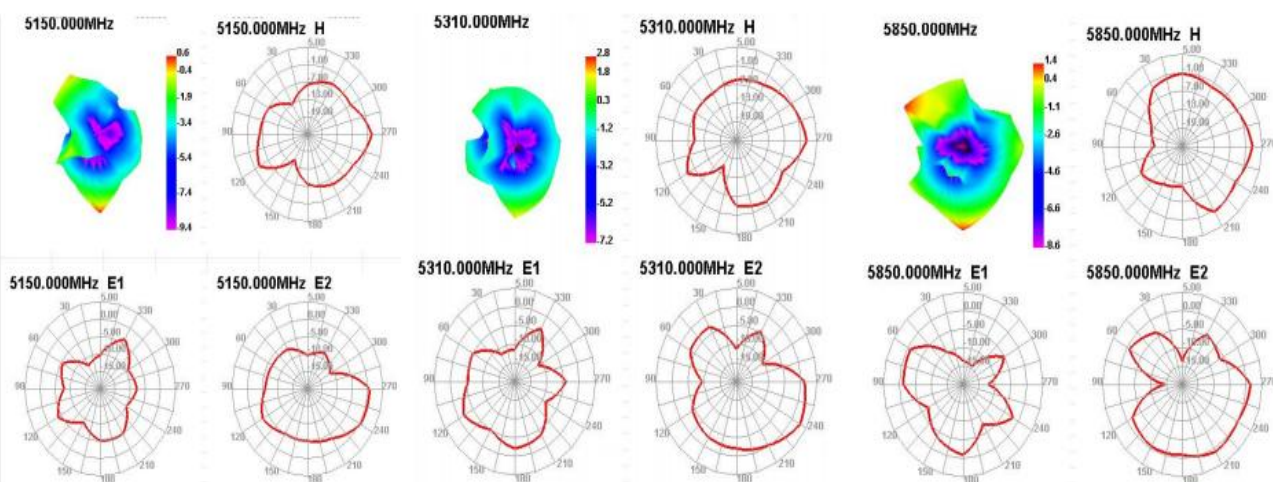
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Radiation Pattern(2.4G)



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。

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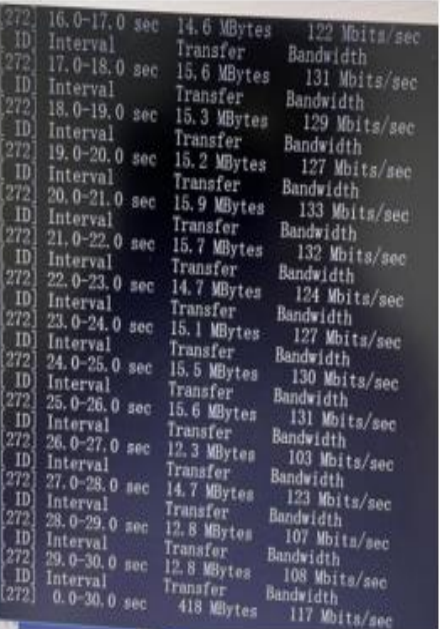
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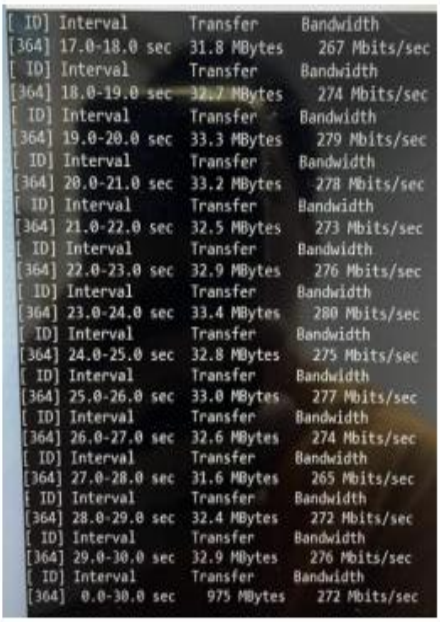
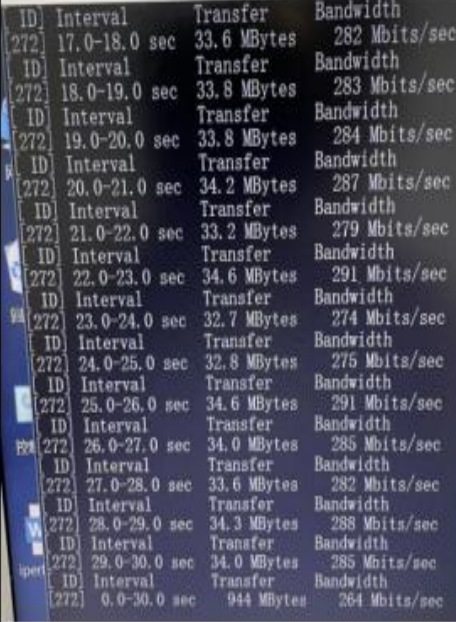
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Throughput test (2.4G)

上行	108M	下行	117M
图片		图片	

Throughput test (5G)

上行	272M	下行	264M
图片		图片	

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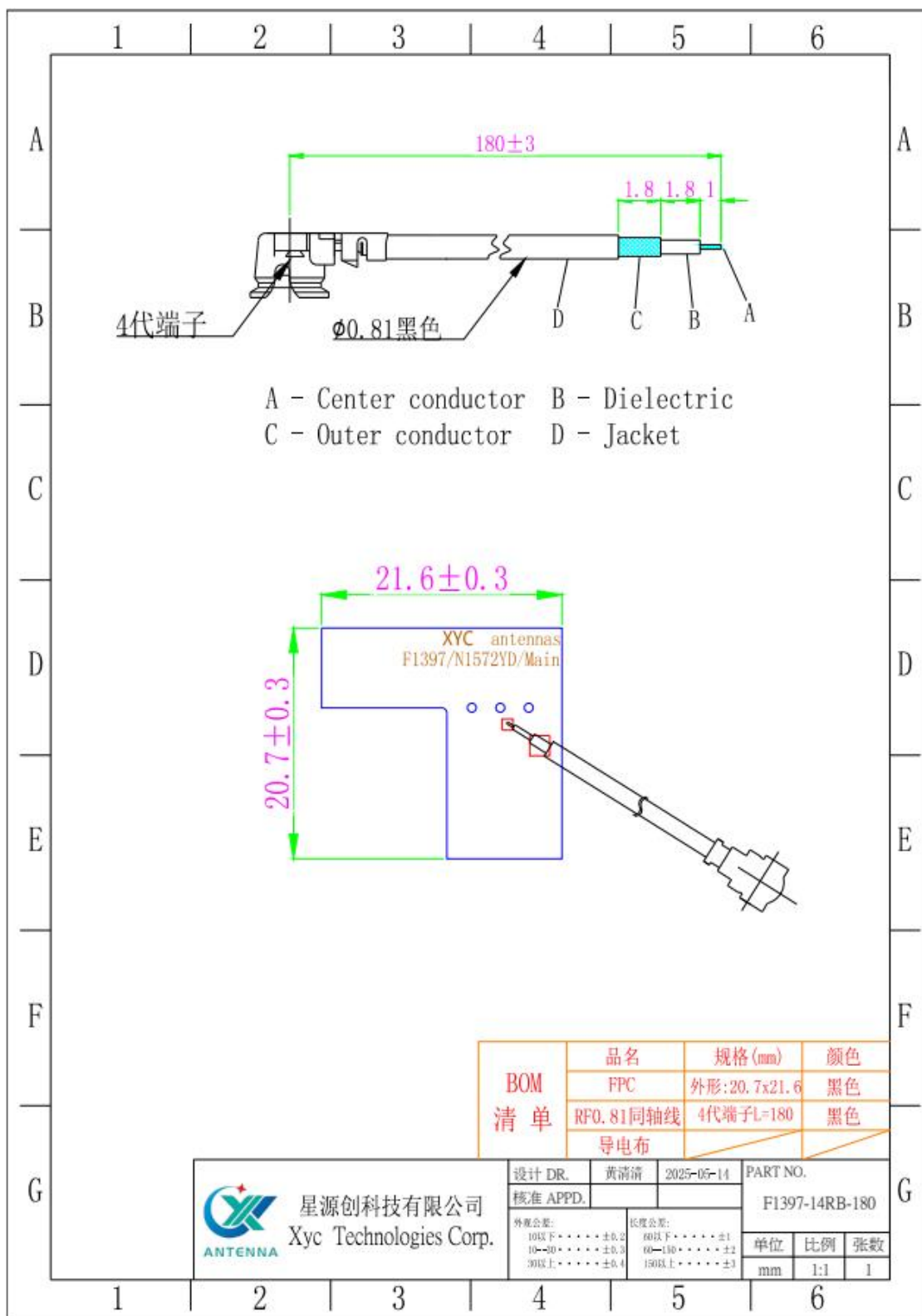
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Antenna Assembly

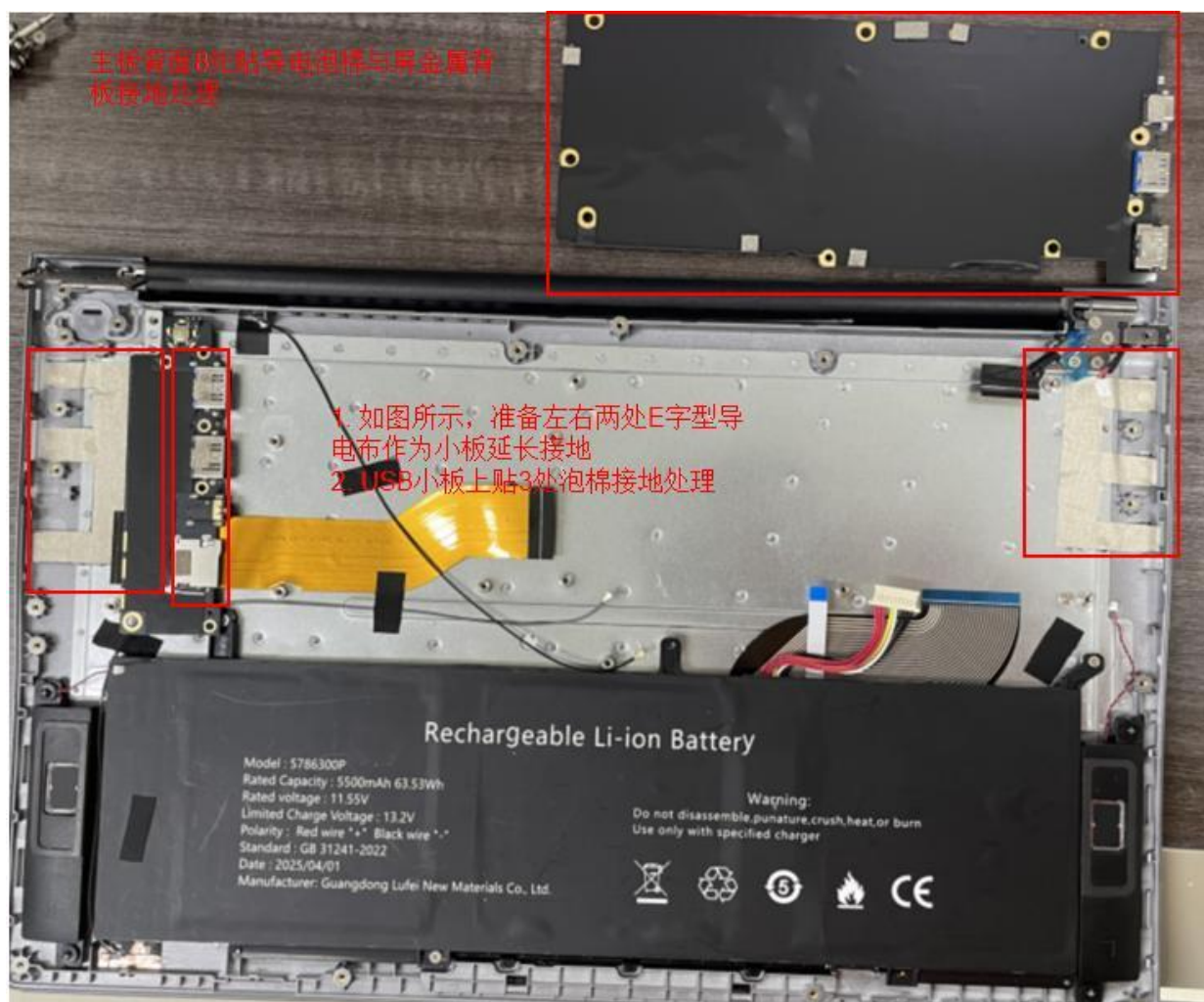


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