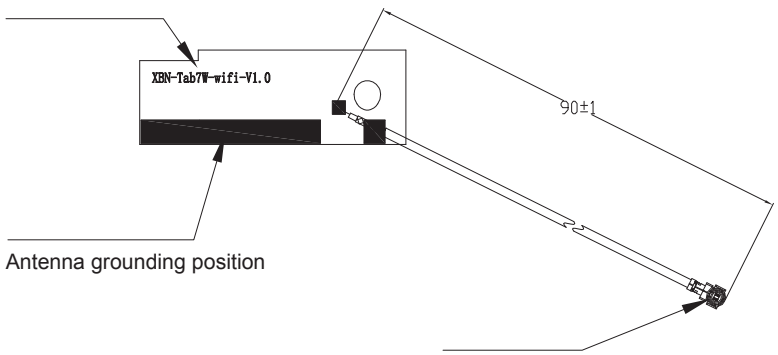
Customer: DOKE COMMUNICATION (HK) LIMITED
Item: TAB7-WIFI
Customer: Xiao-13316888409
RF: Long-15874137313
Data: 2022-8-18

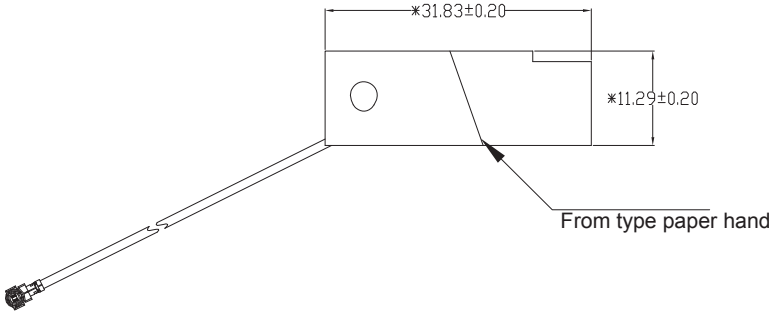
Report
Version: V2.0
Machine status: T1 machine

Frequency range:
2.4G/5G WIFI

Character icon on the screen printing color requirement: silk screen with the light color characters

Screen printing black light characters





Positioning hole to play

Positioning hole to play

Gold-plated surface

Where rip it off by hand

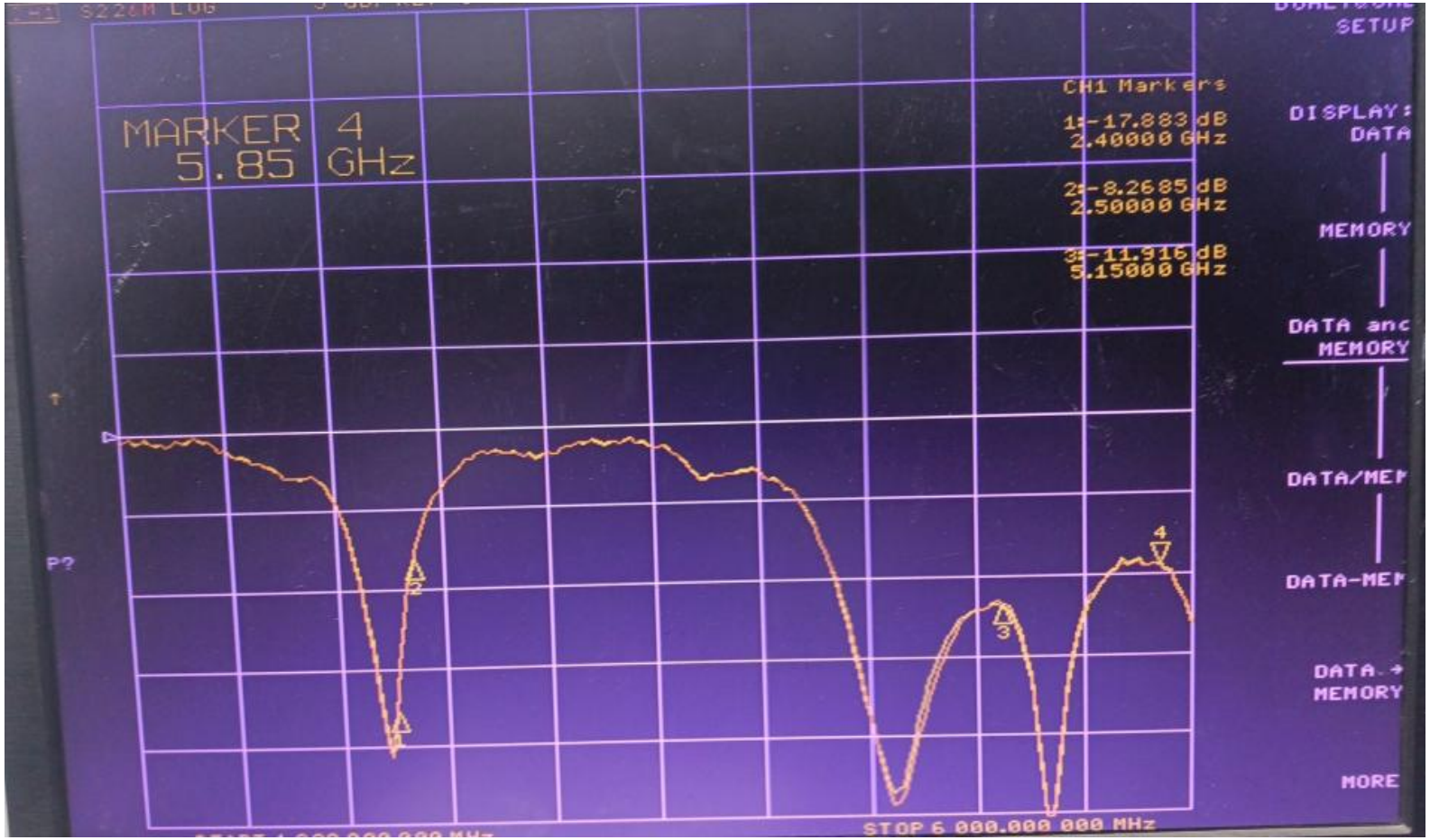
Product appearance

Don't back glue box constituency.

The technical requirements

1. Material FPC(single panel, black, white, half and half electrolytic copper),T< 0. 125mm; Reverse adhesive type: 3M-300LSE(viscosity needs to be overheated impact test);
2. Marked with "*" is the key control size, and the tolerance without annotation is controlled according to the free tolerance in the drawing frame; The size not injected shall be subject to film inspection (the electrical performance shall be tested OK);
3. The thickness of gold plating is 2~3U", it is not easy to break and fall off after gold plating, poor conductivity, circuit partial breakage and other defects;
4. The FPC surface ink should be uniform, no contaminants, scratches, black spots, wrinkles, poor gold plating and other phenomena;
5. Products meet ROHS standards

Return loss

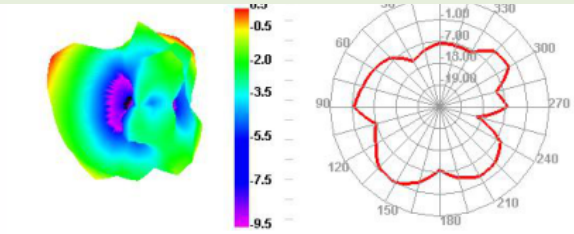

MARKER 4
5.85 GHz
CH1 Markers
1:-17.883 dB
2.40000 GHz
2:-8.2685 dB
2.50000 GHz
3:-11.916 dB
5.15000 GHz
SETUP
DISPLAY:
DATA
MEMORY
DATA and
MEMORY
DATA/MEM
DATA-MEM
DATA →
MEMORY
MORE
STOP 6 000.000 000 MHz

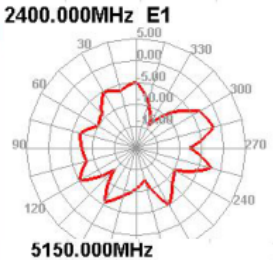
VSWR

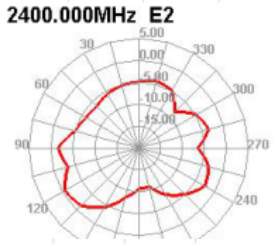

S22 SWR
1 /REF 1
MARKER 4
5.85 GHz
CH1 Markers
1: 1.3015
2.40000 GHz
2: 2.2597
2.50000 GHz
3: 1.5778
5.15000 GHz
LOG MAG
PHASE
DELAY
SMITH CHART
POLAR
LIN MAG
SWR
MORE
START 1 200.000 000 MHz
STOP 6 000.000 000 MHz

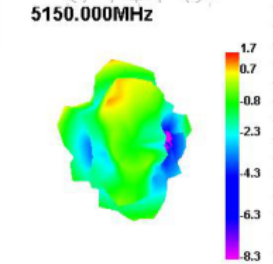
1#Antenna test data

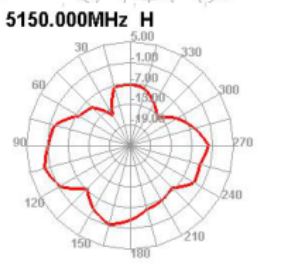
(MHz)	(%)	(dB)	(dBi)
2400	49.8	-3.02	0.45
2410	50.7	-2.94	0.49
2420	49.3	-3.07	0.48
2430	49.2	-3.08	0.48
2440	48.7	-3.12	0.52
2450	50.1	-3	0.67
2460	50.2	-2.99	0.61
2470	48.8	-3.11	0.63
2480	48.2	-3.16	0.51
2490	47.3	-3.25	0.53
2500	46.5	-3.32	0.52
5100	39.5	-4.03	1.67
5200	39.2	-4.06	1.72
5300	40.1	-3.96	1.86
5400	40.3	-3.94	1.89
5500	40.1	-3.96	1.93
5600	39.7	-4.01	1.95
5700	39.5	-4.03	1.94
5800	38.8	-4.11	1.92
5900	38.2	-4.17	1.94

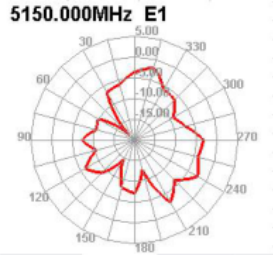


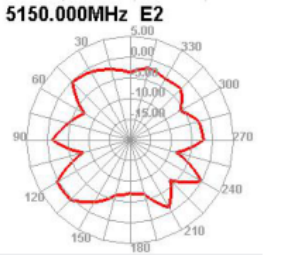












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1#Antenna test data

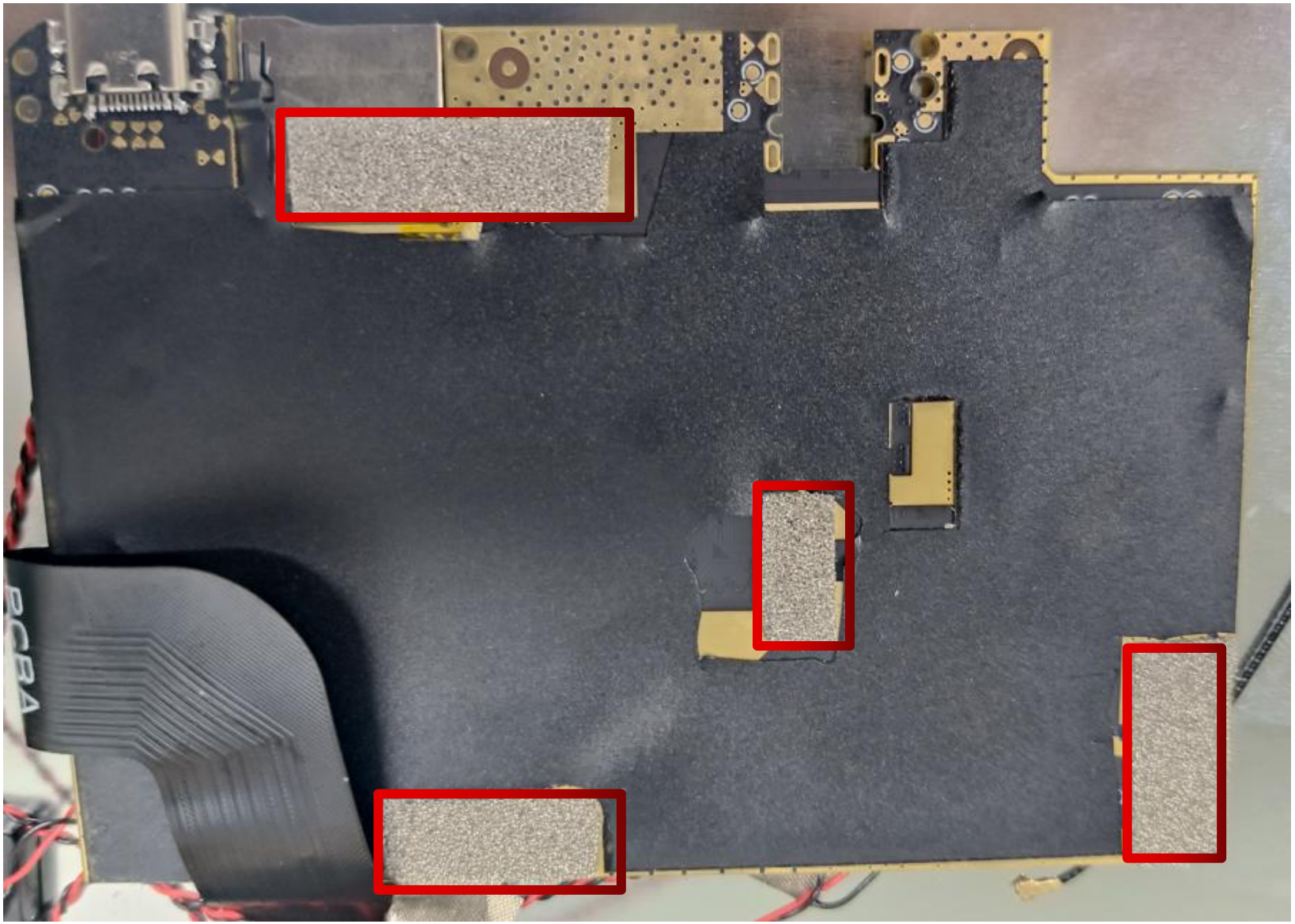
WIFI OTA				
	Band	Channel	TRP	TIS
2.4G	b（11M）	1	12.5	-84.3
		6	12.6	-83.7
		13	11.5	-82.3
	g（54M）	1	12.7	-70.9
		6	12.4	-70.8
		13	11.8	-70.2
	n（MCS7）	1	12.2	-67.2
		6	11.7	-66.7
		13	11.6	-65.6
5G	a（54M）	36	9.7	-70.5
		56	10.1	-70.8
		165	11.3	-70.3
	n（MCS7）	36	9.3	-67.4
		56	9.9	-65.9
		165	10.9	-65.1

无源效率												
WIFI (2.4G)/ BT	Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	FS-(%)	50.8	51.2	50.3	49.9	49.7	50.2	50.7	49.6	48.3	47.5	46.9
WIFI （5G）	Frequency (MHz)	5100	5200	5300	5400	5500	5600	5700	5800	5900		
	FS-(%)	35.5	37.2	38.5	38.3	40.1	41.2	39.7	38.8	39.2		

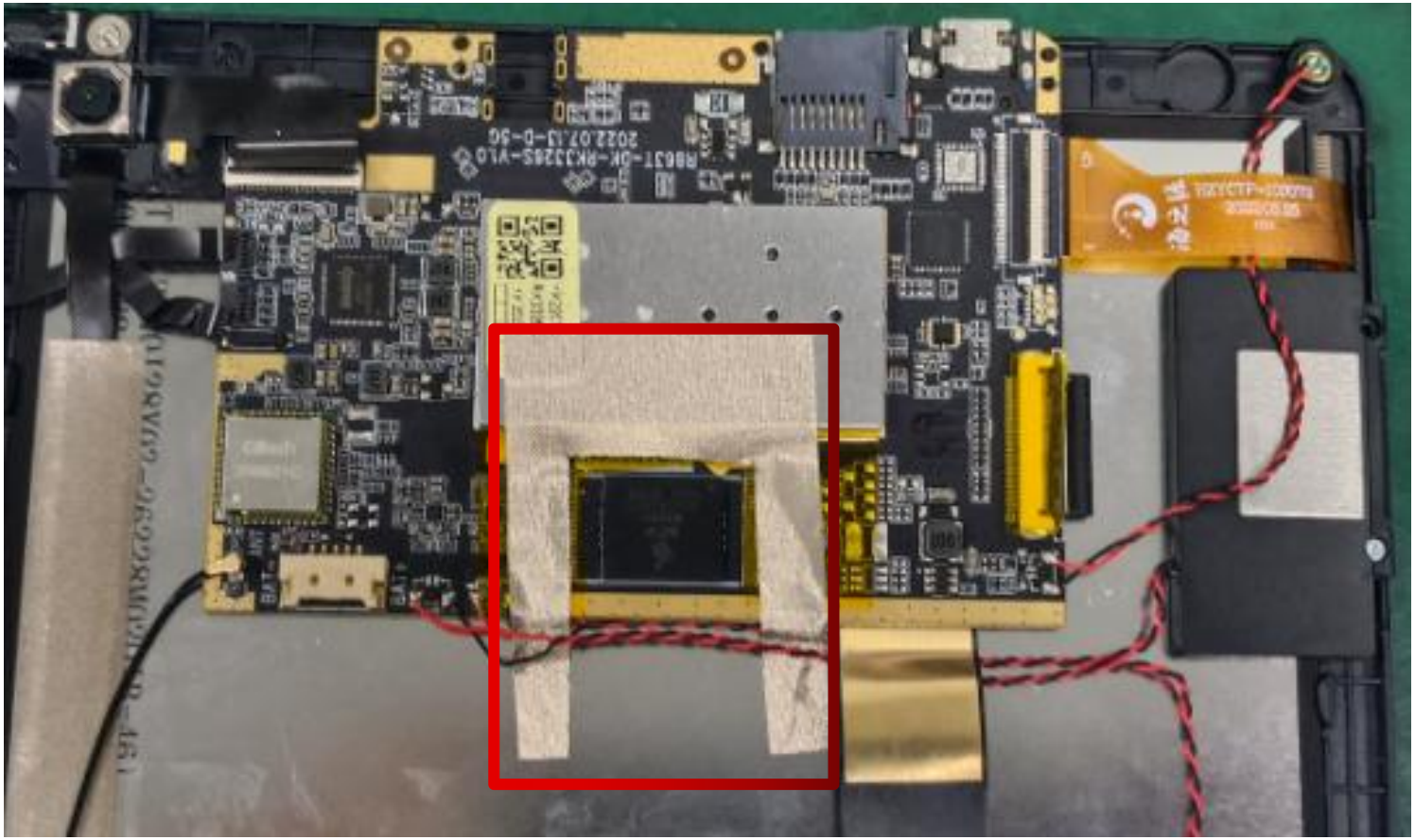
2#Antenna test data

WIFI OTA				
	Band	Channel	TRP	TIS
2.4G	b（11M）	1	12.8	-83.5
		6	12.7	-83.8
		13	12.1	-82.5
	g（54M）	1	12.5	-71.5
		6	12.3	-70.9
		13	11.7	-70.5
	n（MCS7）	1	12.4	-67.5
		6	11.9	-66.4
		13	11.7	-65.1
5G	a（54M）	36	9.8	-70.5
		56	10.4	-71.3
		165	11.2	-71.5
	n（MCS7）	36	9.5	-66.9
		56	10.2	-66.2
		165	11.1	-64.8

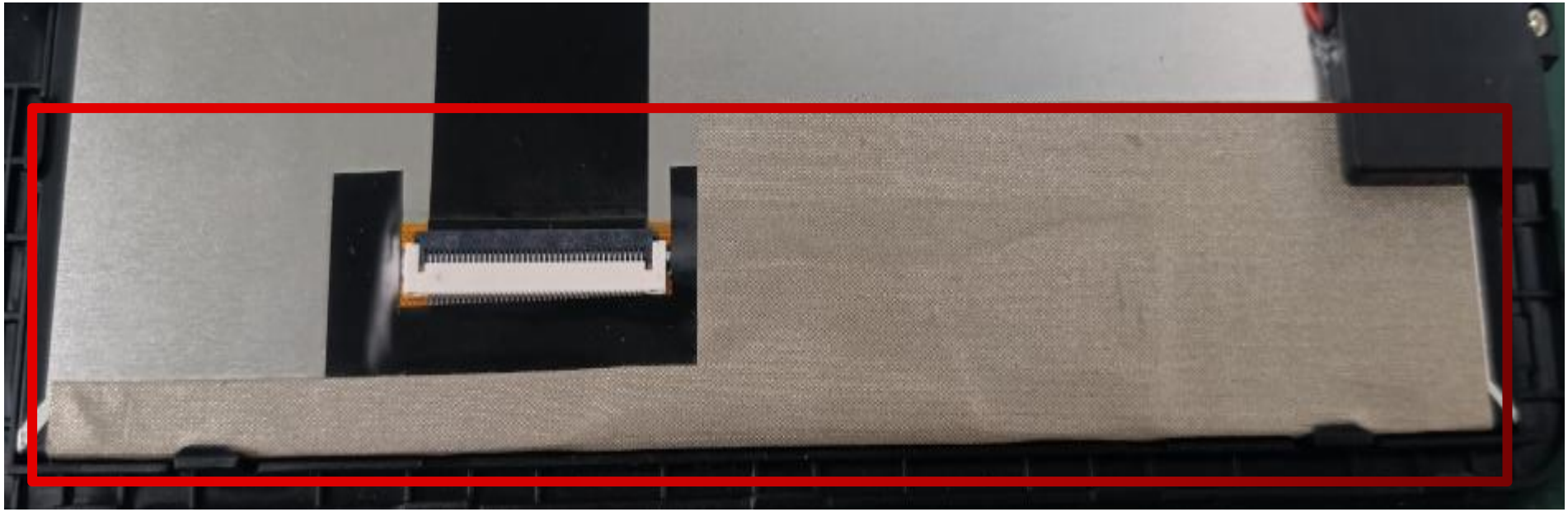
As shown in the red box, the conductive sponge is attached to the back of the motherboard and the metal of the screen is grounded



As shown in the red box in the figure, the conductive cloth is drawn on the shielding cover of the motherboard to extend to the screen. The metal ground is attached to the motherboard to prevent the motherboard from warping and affecting the antenna sensitivity



As shown in the red box, a conductive cloth is attached to the IC of the screen for grounding



Environmental treatment

As shown in the red box in the figure, a conductive cloth is placed above the camera cable to shield the interference from the antenna.

A double-sided conductive cloth is attached to the metal on the back of the camera in the blue box and is grounded to the metal on the screen

As shown in the red box in the figure, a conductive cloth is attached to the copper exposed spot of the antenna and is extended to the metal of the screen for grounding.