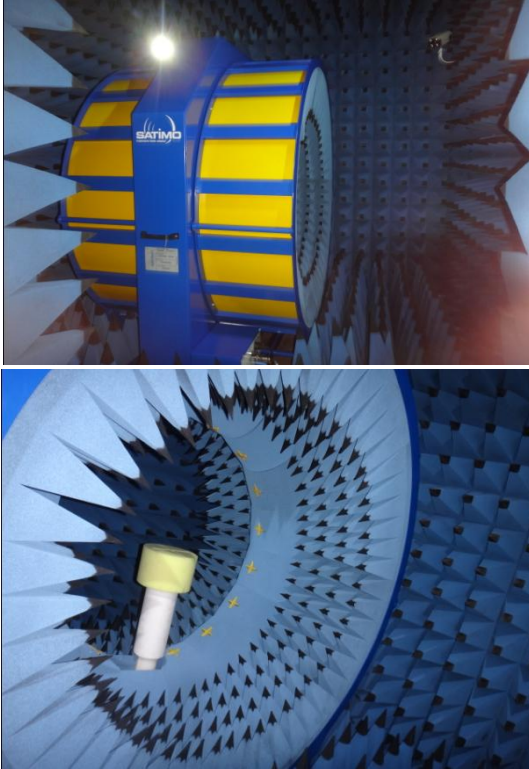


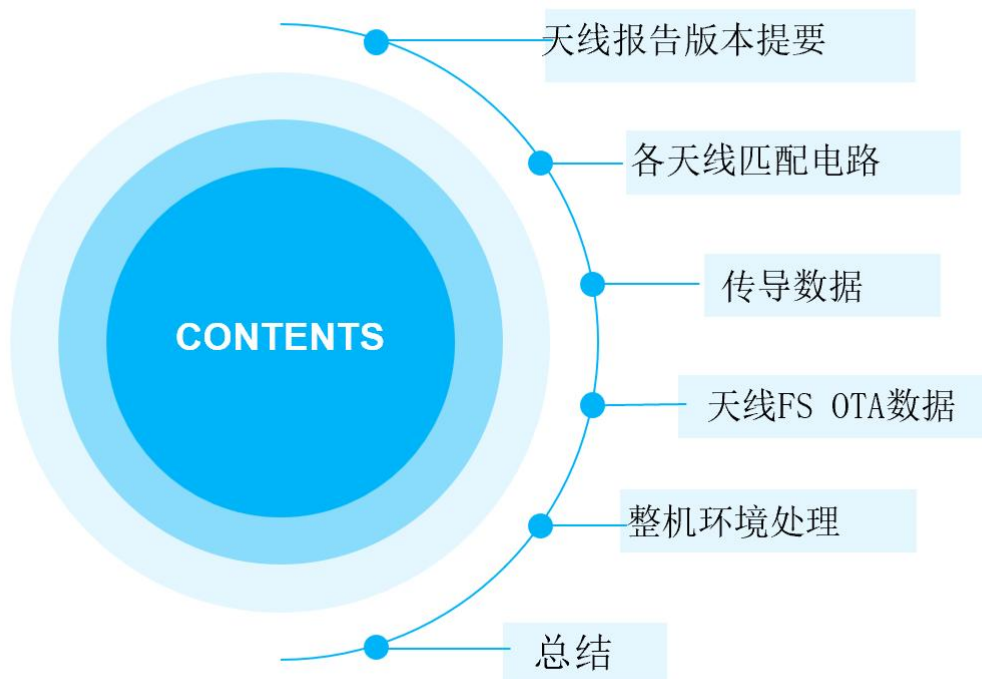
Test report



Customer name	Genesis	Project name	H283-CW108S
Commissioning band	G4P/W1. 2. 4. 5. 8/ LTE34/38/39/40/41 FDD1/2/3/4/5/7/8/12/17/18/20/28	Structural mode	FPC
Radio frequency engineer	Xiang Yi	Structural engineer	Du Qiang
Antenna type	LOOP	date	2024/12/31



StarLab 3D laboratory, originally imported from France SATIMO Company, can accurately and quickly test the TRP, TIS, efficiency, gain, apple chart, direction chart and other parameter data of communication terminal products such as mobile phones, tablets and notebooks.





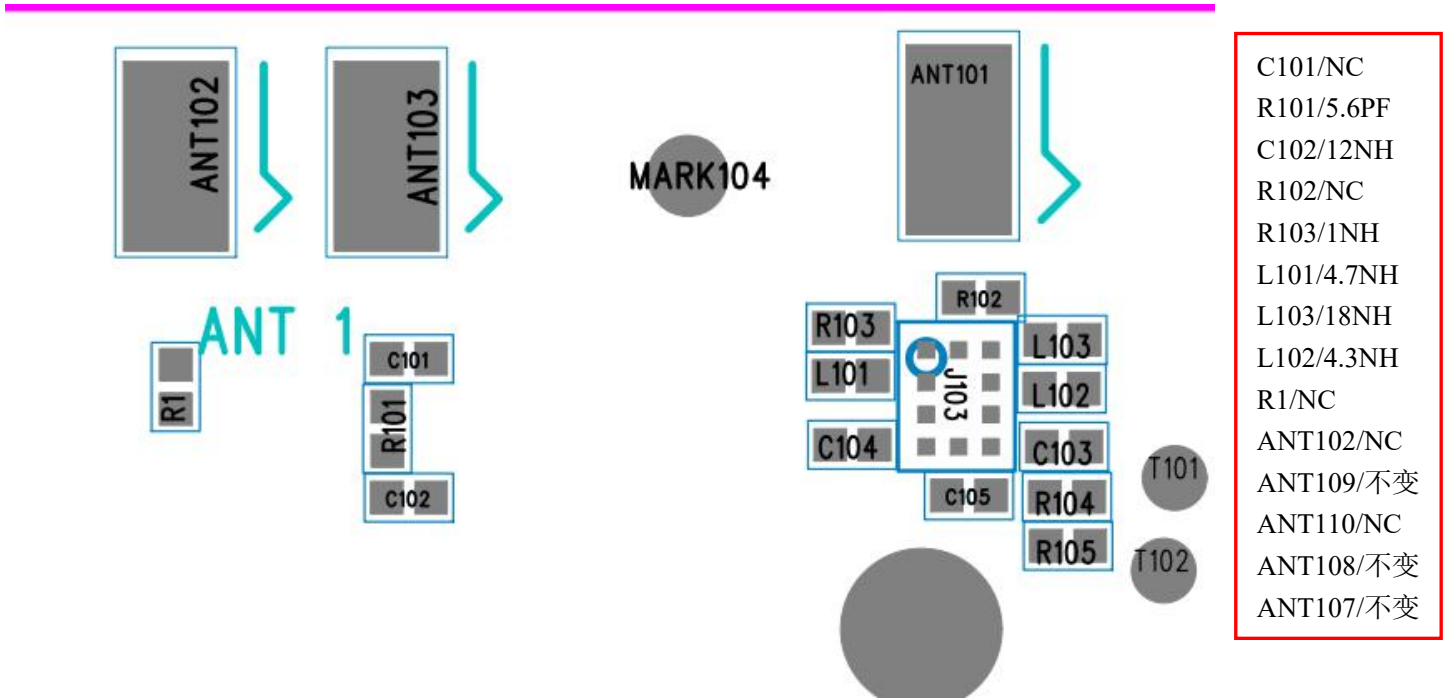
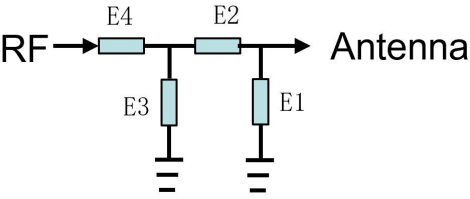
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Antenna report version summary

edition	date	Content overview
V1.0	2024/6/22	Antenna test report
V2.0	2024/7/18	Sample antenna test report (Open camera to light up)
V3.0	2024/9/7	Antenna debugging test report
V4.0	2024/9/19	Antenna sample test report
V5.0	2024/10/9	Antenna sample test report (Antenna matching common H283-CW108)
V6.0	2024/12/14	Pattern antenna test Report (Antenna matching common H283-CW108)
V7.0	2024/12/18	DVT3 Machine antenna test report (Antenna matching common H283-CW108)
V8.0		
V9.0		
V10.0		
V11.0		

Main antenna matching circuit ----- unchanged (shared H283-CW108)

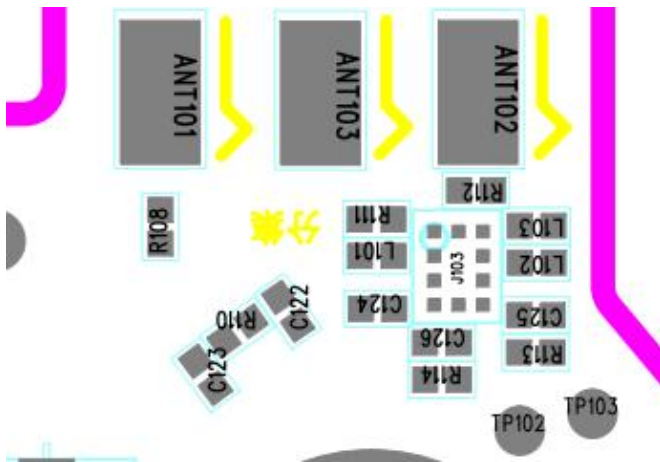
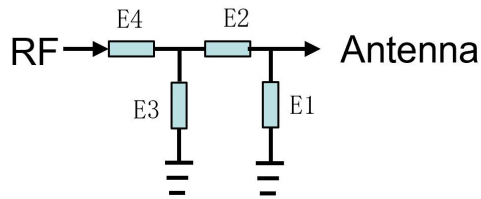
Element	E1	E2	E3	E4
Value	NC	5.6pf	12NH	0 欧



Elemnet	Value	Band
RF1	0 欧	GSM900/1800/1900/W1/2/4/8/B1/2/3/4/7/8/34/38/39/40/41
RF2	4.7NH	GSM850/W5/B5/20/18
RF3	18NH	B12/17/28
RF4		



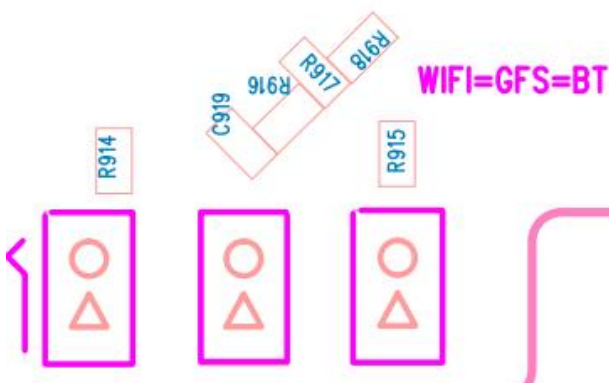
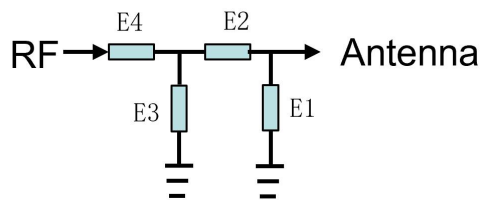
Element	E1	E2	E3	E4
Value	NC	0 欧	NC	0 欧



C122/NC
R110/0 Ω
C123/NC
R108/0 Ω
R112/0 Ω

3-in-1 antenna matching circuit ----- has not been changed

Element	E1	E2	E3	E4
Value	NC	0 欧	NC	0 欧



C919/NC
R916/0 Ω
R917/NC
R918/0 Ω
R915/0 Ω
R914/0 Ω

Motherboard conduction data

Band	Channel	power	Single master sensitivity	Band	Channel	power	Single master sensitivity
GSM900	L			DCS1800	L		
	M				M		
	H				H		
GSM850	L			PCS1900	L		
	M				M		
	H				H		
LTE-B1 (10MHz)	L			LTE-B20 (10MHz)	L		
	M				M		
	H				H		
LTE-B2 (10MHz)	L			LTE-B28 (10MHz)	L		
	M				M		
	H				H		
LTE-B3 (10MHz)	L			LTE-B34 (10MHz)	L		
	M				M		
	H				H		
LTE-B5 (10MHz)	L			LTE-B38 (10MHz)	L		
	M				M		
	H				H		
LTE-B7 (10MHz)	L			LTE-B39 (10MHz)	L		
	M				M		
	H				H		
LTE-B8 (10MHz)	L			LTE-B40 (10MHz)	L		
	M				M		
	H				H		
LTE-B4 (10MHz)	L			LTE-B41 (10MHz)	L		
	M				M		
	H				H		
LTE-B12 (10MHz)	L			LTE-B17 (10MHz)	L		
	M				M		
	H				H		
LTE-B18 (10MHz)	L			WCDMA1700	L		
	M				M		
	H				H		
WCDMA2100	L			WCDMA850	L		
	M				M		
	H				H		
WCDMA1900	L			WCDMA900	L		
	M				M		
	H				H		

Free Space OTA

Band	Channel	TRP (dBm)	TIS (dBm)	Band	Channel	TRP (dBm)	TIS (dBm)
GSM900	L	26.7		DCS1800	L	25.8	
	M	26.8			M	25.6	
	H	27.3	-102.2		H	25.0	-103.4
GSM850	L	26.0		PCS1900	L	25.5	
	M	26.5			M	26.1	
	H	27.1	-102.1		H	25.5	-103.4
LTE-B1 (10MHz)	L	18.8		LTE-B20 (10MHz)	L	17.6	
	M	18.7			M	17.5	
	H	18.1	-93.4		H	17.6	-92.6
LTE-B2 (10MHz)	L	17.9		LTE-B28 (10MHz)	L	16.6	
	M	18.4			M	17.2	
	H	18.0	-93.7		H	17.3	-92.1
LTE-B3 (10MHz)	L	17.5		LTE-B34 (10MHz)	L	18.1	
	M	17.6			M	18.0	
	H	17.6	-92.2		H	17.7	-93.4
LTE-B5 (10MHz)	L	17.2		LTE-B38 (20MHz)	L	17.8	
	M	17.5			M	17.6	
	H	17.4	-93.0		H	17.5	-90.0
LTE-B7 (10MHz)	L	17.6		LTE-B39 (20MHz)	L	18.6	
	M	17.8			M	18.7	
	H	17.6	-92.2		H	18.6	-92.0
LTE-B8 (10MHz)	L	17.8		LTE-B40 (20MHz)	L	19.1	
	M	17.6			M	18.8	
	H	17.4	-92.0		H	17.7	-90.0
LTE-B4 (10MHz)	L	17.5		LTE-B41 (20MHz)	L	17.8	
	M	17.3			M	17.7	
	H	17.3	-93.1		H	17.5	-89.5
LTE-B12 (10MHz)	L	16.6		LTE-B17 (10MHz)	L	17.1	
	M	17.1			M	17.3	
	H	17.0	-92.3		H	17.1	-92.4
LTE-B18 (10MHz)	L	17.5		WCDMA1700	L	17.7	
	M	17.6			M	17.6	
	H	17.5	-93.3		H	17.6	-104.4
WCDMA2100	L	18.8		WCDMA850	L	16.8	
	M	18.7			M	17.3	
	H	18.4	-105.0		H	17.5	-104.3
WCDMA1900	L	18.0		WCDMA900	L	17.1	
	M	18.5			M	17.0	
	H	18.6	-105.0		H	17.2	-104.4



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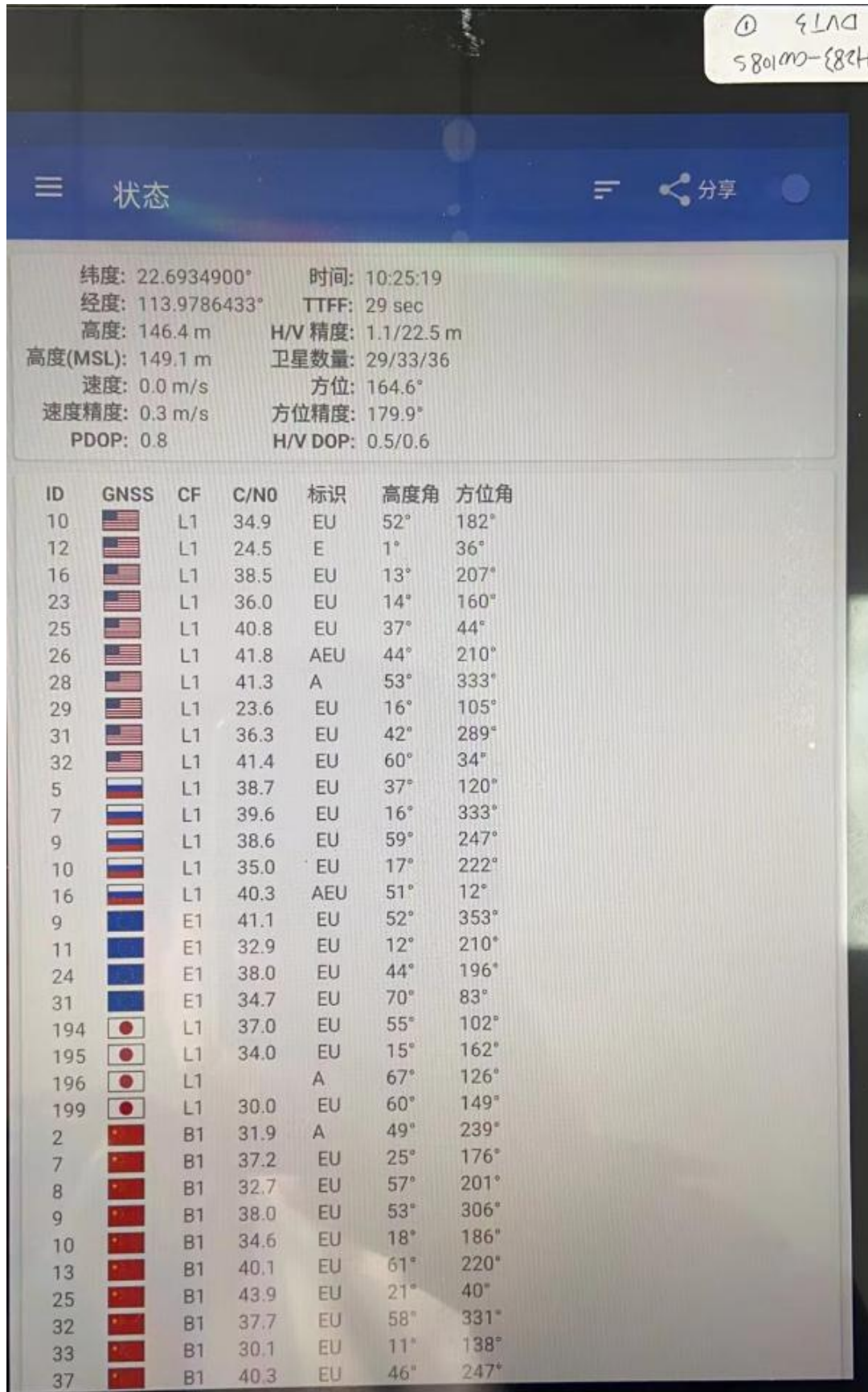
WIFI OTA test data is as follows :(bright screen state test)

Band	Channel	TRP(dBm)	TIS(dBm)	Band	Channel	TRP(dBm)	TIS(dBm)
2. 4G (B 模) 11M	1	13. 5		5G (A 模 54M)	36	12. 4	
	7	13. 3			149	12. 2	
	13	13. 3	-84. 0		165	11. 4	-70. 6

BT OTA data

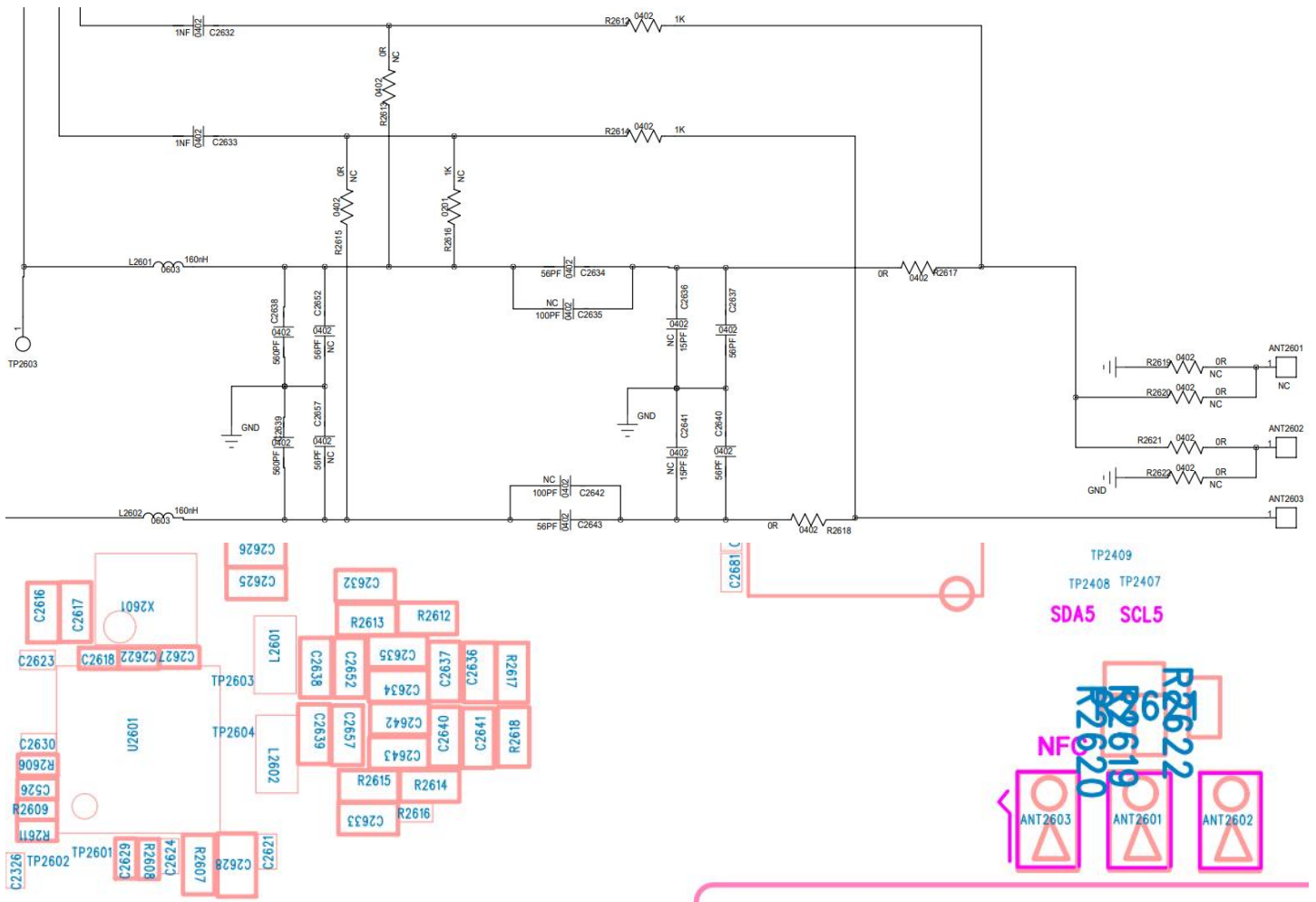
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	7. 0	-89. 6
	39	6. 7	-89. 7
	78	7. 5	-89. 5

GPS Actual measurement:



5 Roof test, GPS star search and positioning time as shown in the figure above

NFC Schematic diagram position number diagram



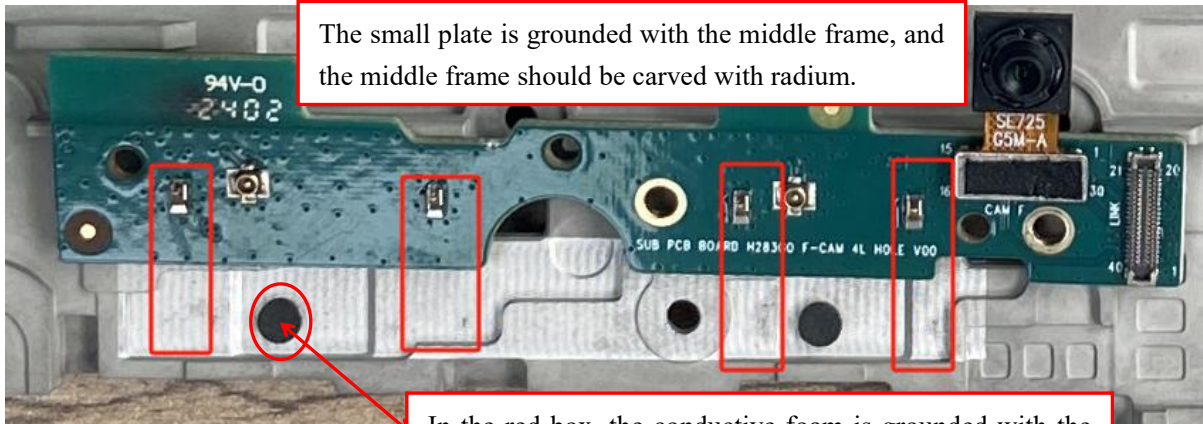
NFC Debug match value

Bit number	Matched value	remark
C2643/C2634	39PF	The overcurrent capacity is not less than 350MA 50V ±2%
C2635/C2642	15PF/变更	
C2641/C2636	120PF/变更	
C2640/C2637	56PF/变更	
C2657/C2652	680PF	
L2602/L2601	原始匹配	
C2639/C2638	NC	
R2613/R2615	1.0K	
R2616	NC	
R2612/R2614	NC	

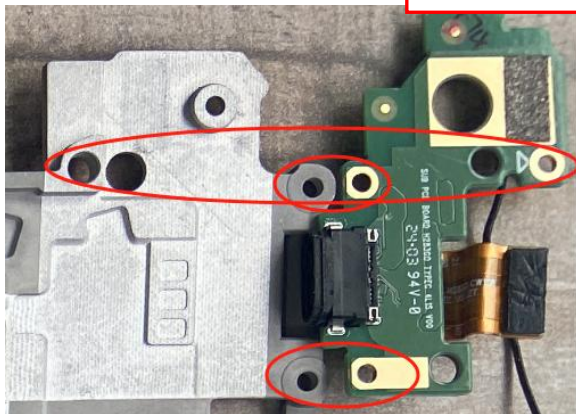
NFC Test distance

Card type	Card reading distance (MM)
TYPE 1 Tag NFC ANEF (ISO14443)	45
TYPE 2 Tag NTAG-215 (M)	30
TYPE 2 Tag Mif one (ISO14443 /M)	40
TYPE 3 Tag Felica Rc-S966	40
TYPE 4 Tag NFC-A (TA32) (ISO14443)	30
TYPE 4 Tag NFC-B (TB32) (ISO14443)	25
TYPE 5 Tag NFC-V (ISO15693)	60
MF1 (M)	50
银行卡 (A)	30
身份证 (B)	25
深圳通 (A)	30

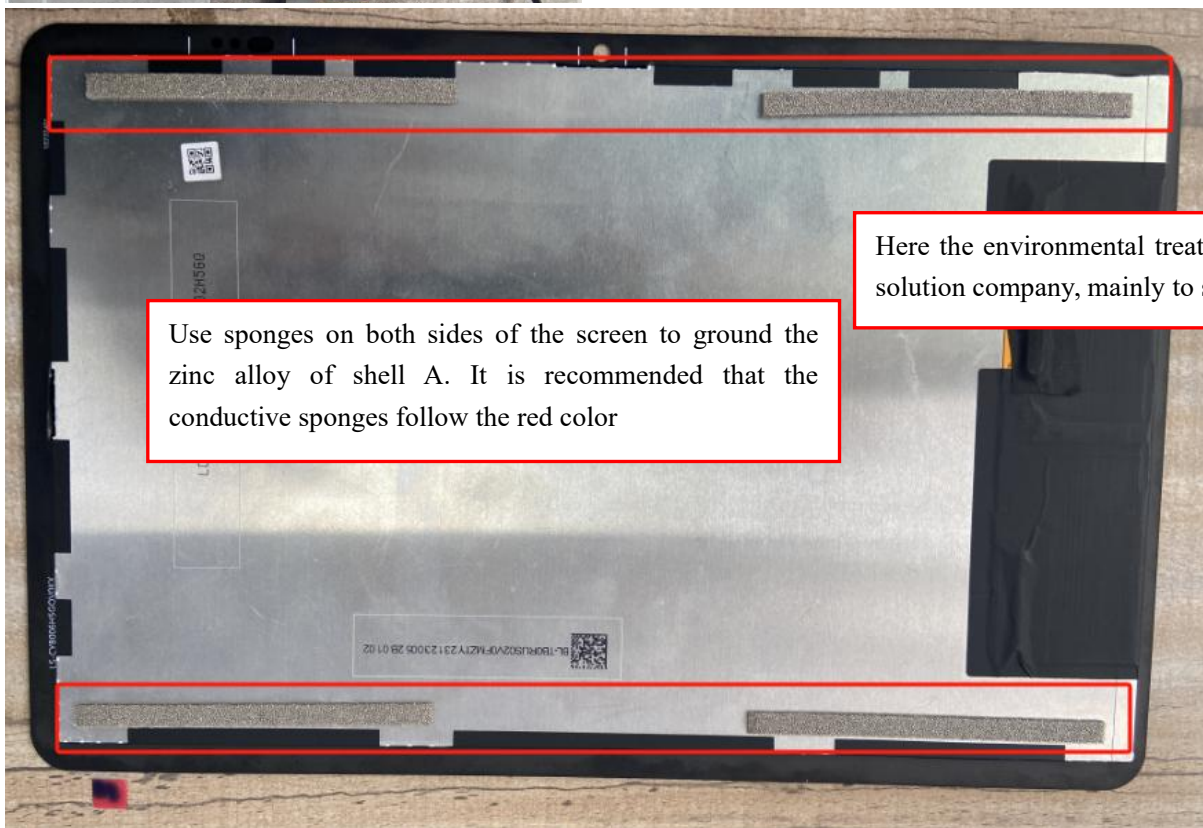
Environmental treatment

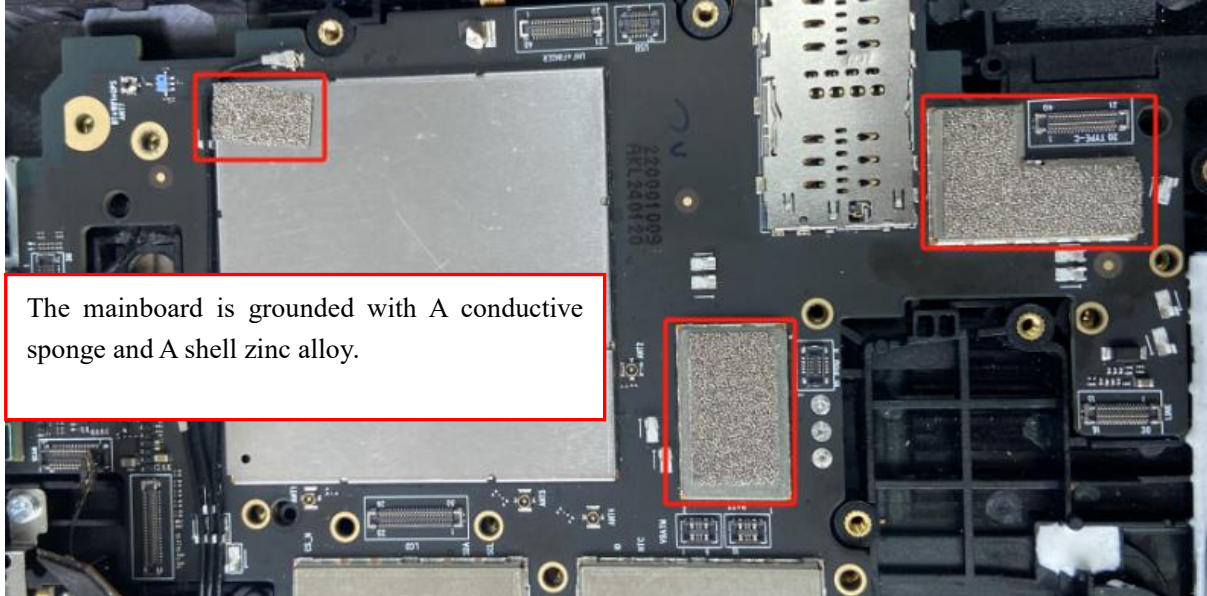


In the red box, the conductive foam is grounded with the coaxial seat.

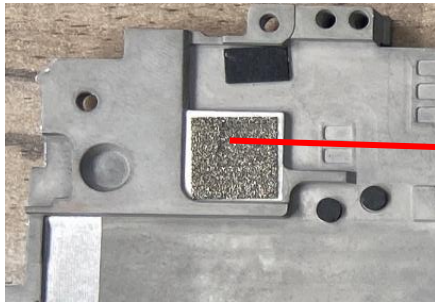


The small plate is grounded with the middle frame, and the middle frame should be carved with radium.





The mainboard is grounded with A conductive sponge and A shell zinc alloy.



Here, the rear camera is grounded with A double-sided conductive sponge and zinc A alloy

Note:

- 1, this antenna is only suitable for debugging prototype, motherboard PCB or RF circuit material changes, accessories (such as camera, screen, horn, motor, battery, shell process) and other changes, must be tested and verified by our company before use.
2. If this project needs to be verified by the third party, please send the prototype to our company for retesting at least one working day in advance, and then send it to our company for testing, so as to avoid delays in the project progress after two or multiple tests!