



Word Easy Electronics Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date 2021/04/26

File No 21042601

Revision 1.0

CUSTOMER: _____

CUSTOMER NO: C319 _____

PART NAME: WIFI Antenna L=155mm MHF _____

SUPPLIER NO: WE007N.F0092.V01 _____

Date:

Q “TY:

CUSTOMER APPROVED BY

APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL	CHECK	DESIGN
Hunter	Zhou Hongtao	Liang



WE-RD-F01-A



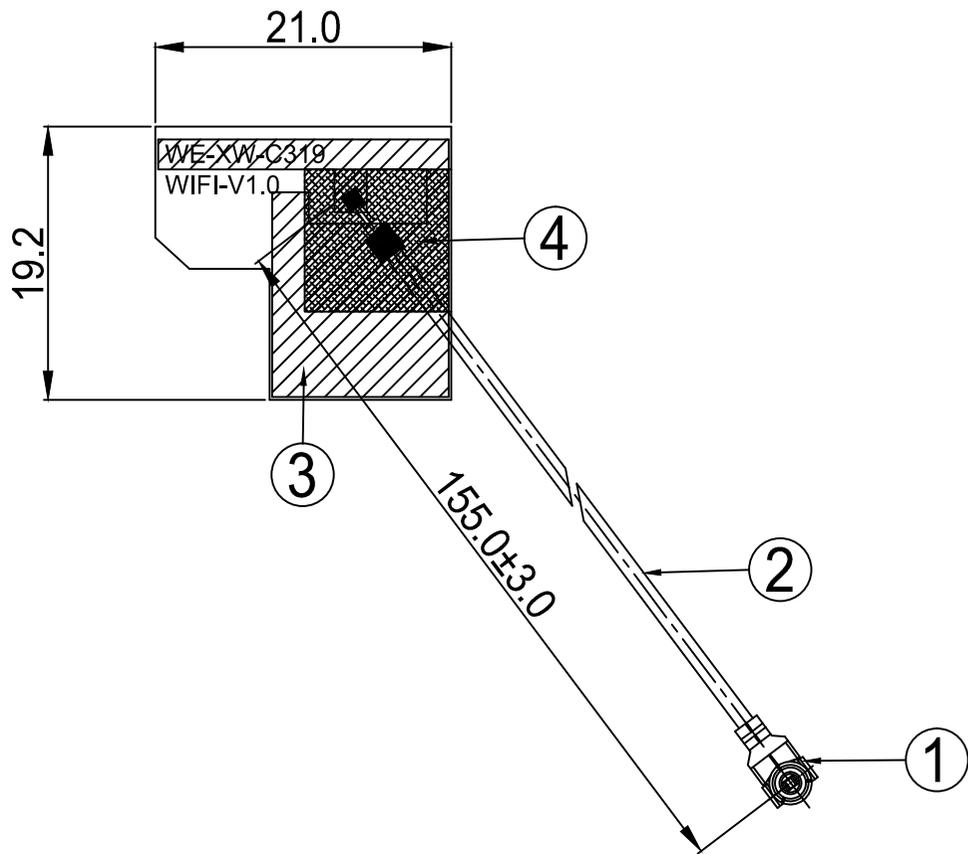
Spec Item

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10	N/A	N/A	N/A
11	-	-	-
12	-	-	-
13	-	-	-

RoHS

Compatible

REV.	DESCRIPTION	DATE
△	First issue	2021.04.26



4	Acetate Cloth	10.0*10.0MM	Acetate Cloth	FAB0001.V01	1
3	FPCB	21.0*19.2MM	FPCB	FPC0214.V01	1
2	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	CAB0113.V02	1
1	Mini Connector	Au Plated 1代	Cu	MET0XD1.V01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

World Easy Electronics Co.,Ltd.

PART NAME: WIFI Antenna L=155mm MHF

PART NO.: WE007N.F0092.V01 DATE: 2021-04-26

APPROVED BY	CHECKED BY	DESIGNED BY	
		Hunter	Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
			UNITS: mm SCALE: 1/1 REVISION: A

E
D
C
B
A

E
D
C
B
A

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

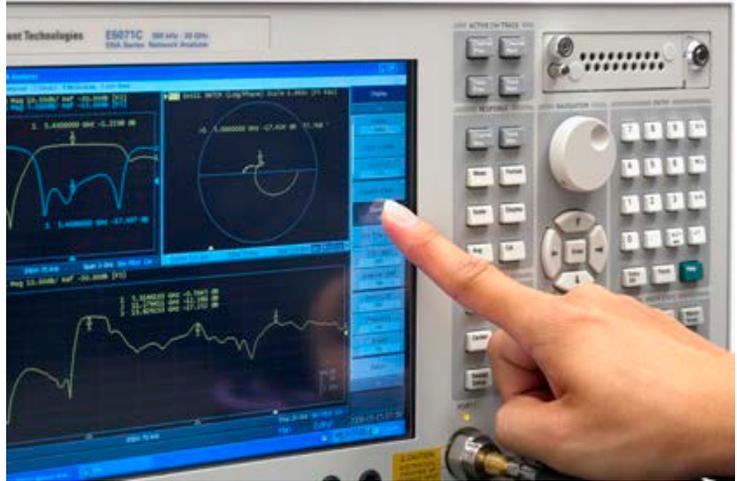


Antenna Specification

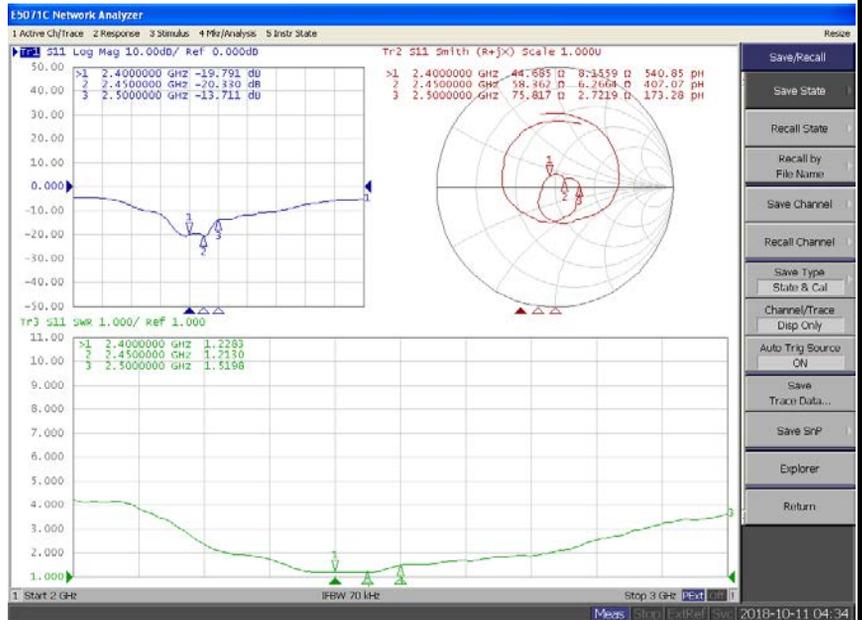
Electrical Properties	
Frequency	2400-2500MHz
Impedance	50 Ohm Nominal
V.S.W.R	≤1.5
Return Loss	≤-13
Radiation	Omni-directional
Gain (Peak)	2.8dBi
Polarization	Linear
Connector	I-PEX
Physical Properties	
Antenna Material	FPC
Cable Type	O.D.1.13//L=155mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray



Agilent E5071C

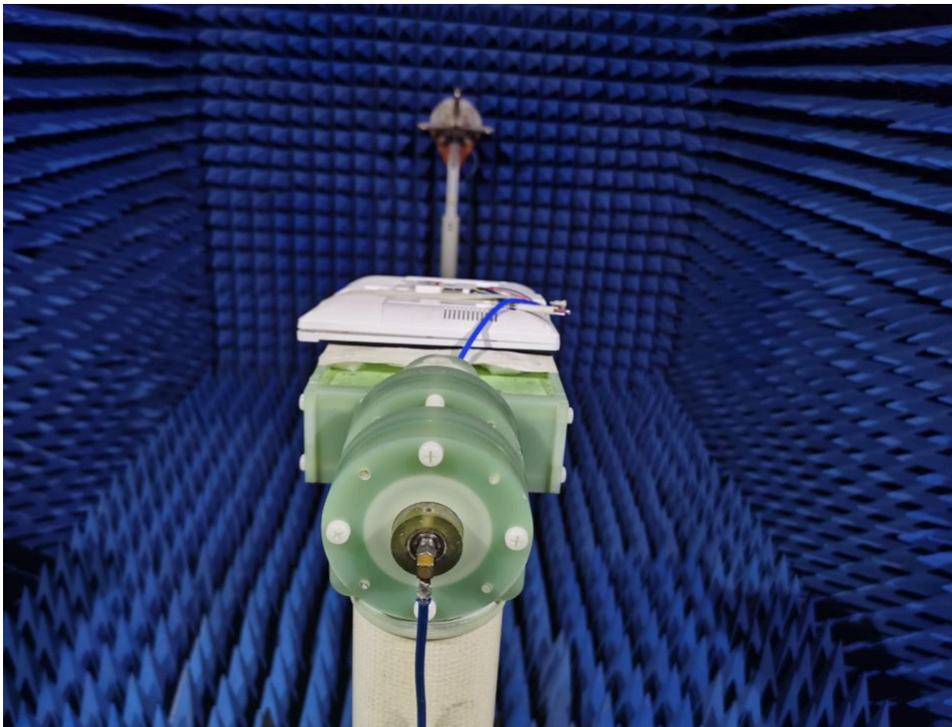
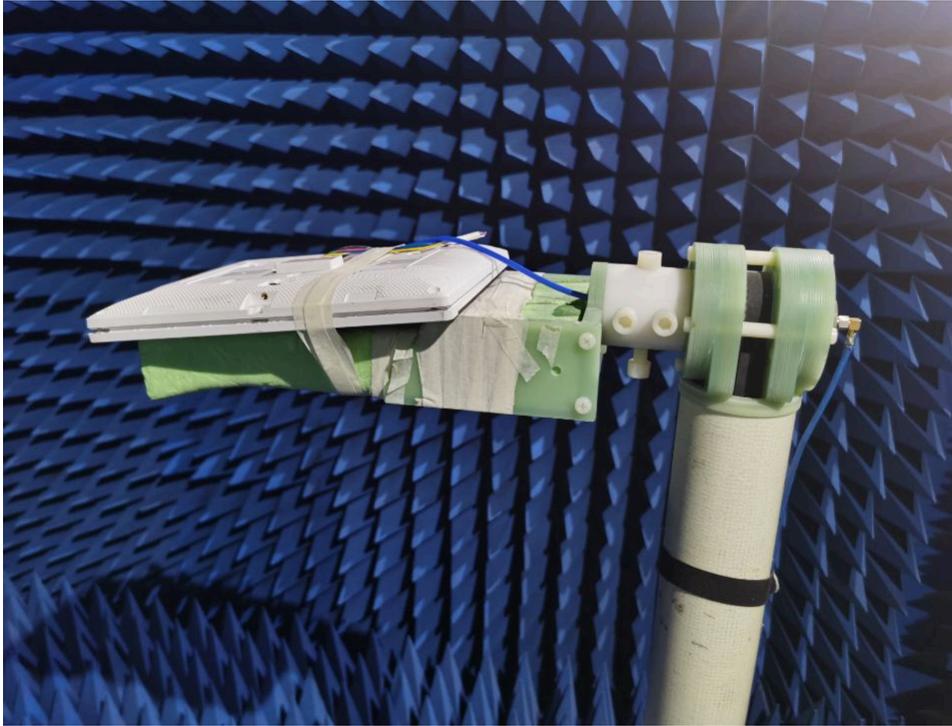


S Parameter Test // WIFI





Antenna Passive Test



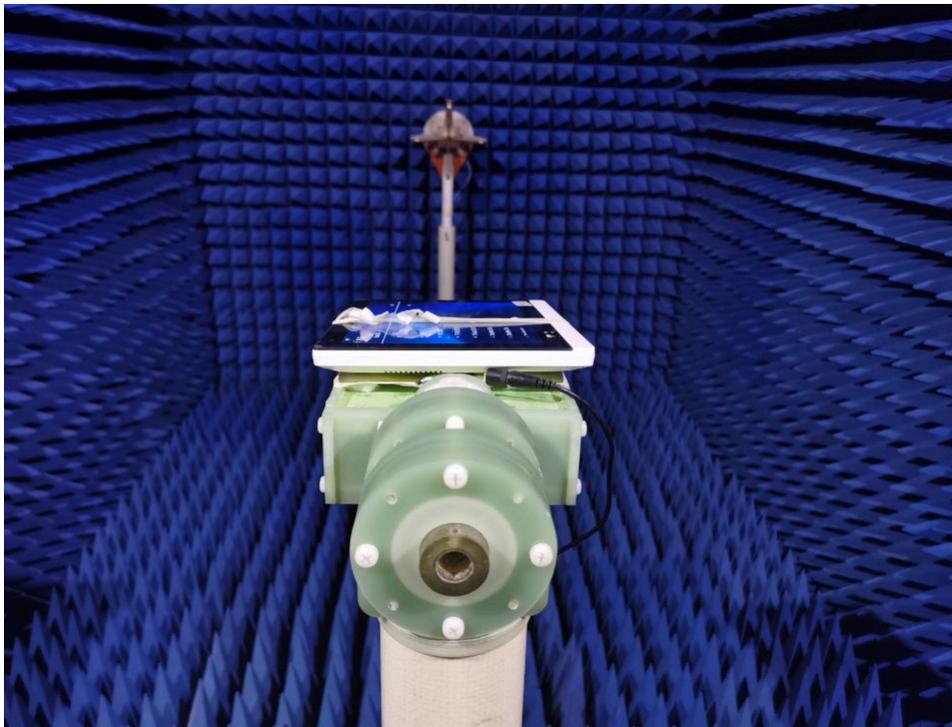
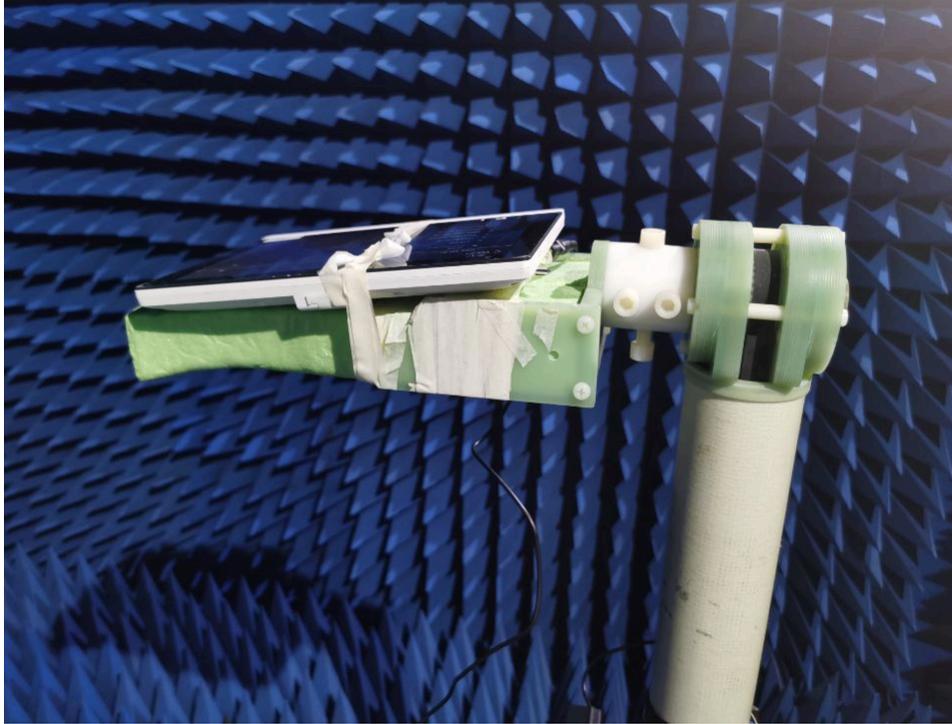


Passive Test For WIFI

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	55.8	-2.4	2.2
2410	65.0	-1.7	2.8
2420	60.8	-2.0	2.4
2430	62.2	-1.9	2.3
2440	62.8	-1.8	2.2
2450	59.4	-2.1	1.9
2460	64.9	-1.9	1.8
2470	58.5	-2.3	1.4
2480	65.6	-1.8	2.0
2490	61.5	-2.1	1.9
2500	68.7	-1.6	2.4



Antenna Active Test





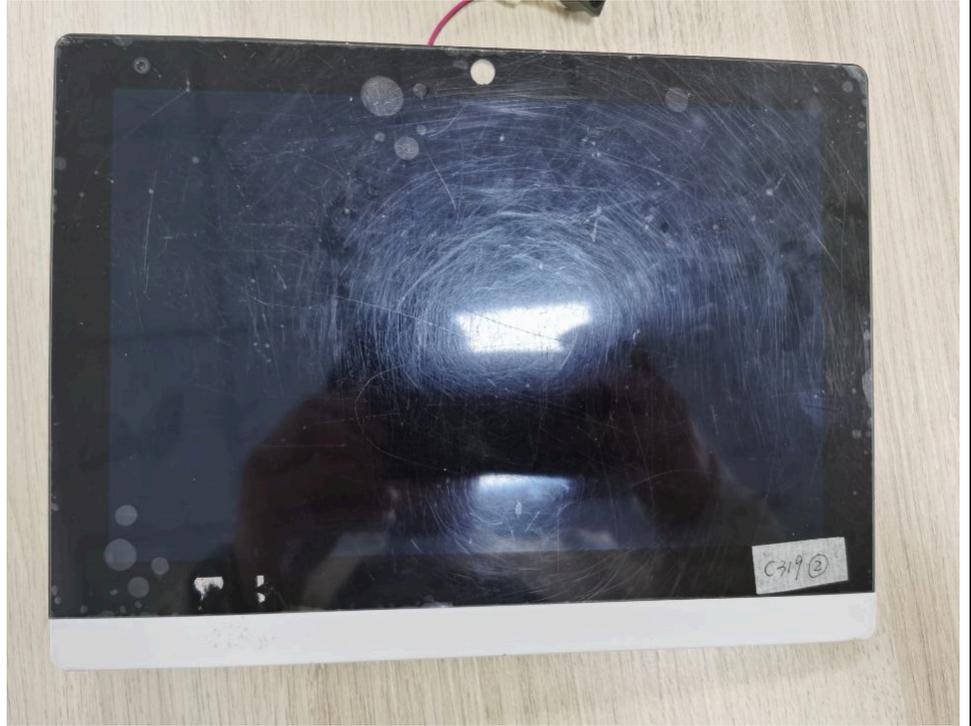
OTA Test For WIFI

Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 2.4G 802.11b	1	11Mbps	14.1	17.6	11Mbps	-83.5	-86.9
	6		13.7	17.2		-83.6	-86.5
	13		13.3	16.7		-83.8	-86.3
WIFI 2.4G 802.11g	1	6Mbps	14.5	18.3	54Mbps	-72.7	-75.7
	6		14.2	18.0		-72.2	-75.8
	13		12.2	15.9		-71.1	-73.9
WIFI 2.4G 802.11n	1	MCS7	14.5	18.2	MCS7	-69.8	-72.7
	7		14.3	17.9		-70.0	-73.0
	13		12.3	15.9		-67.5	-70.1

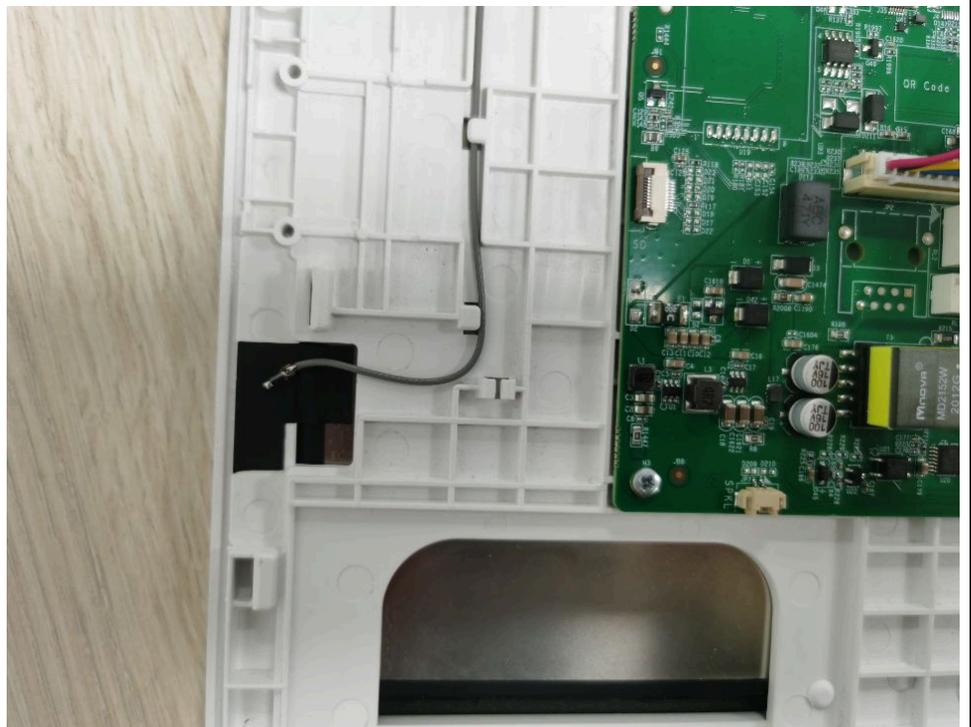


Antenna Profile

Device

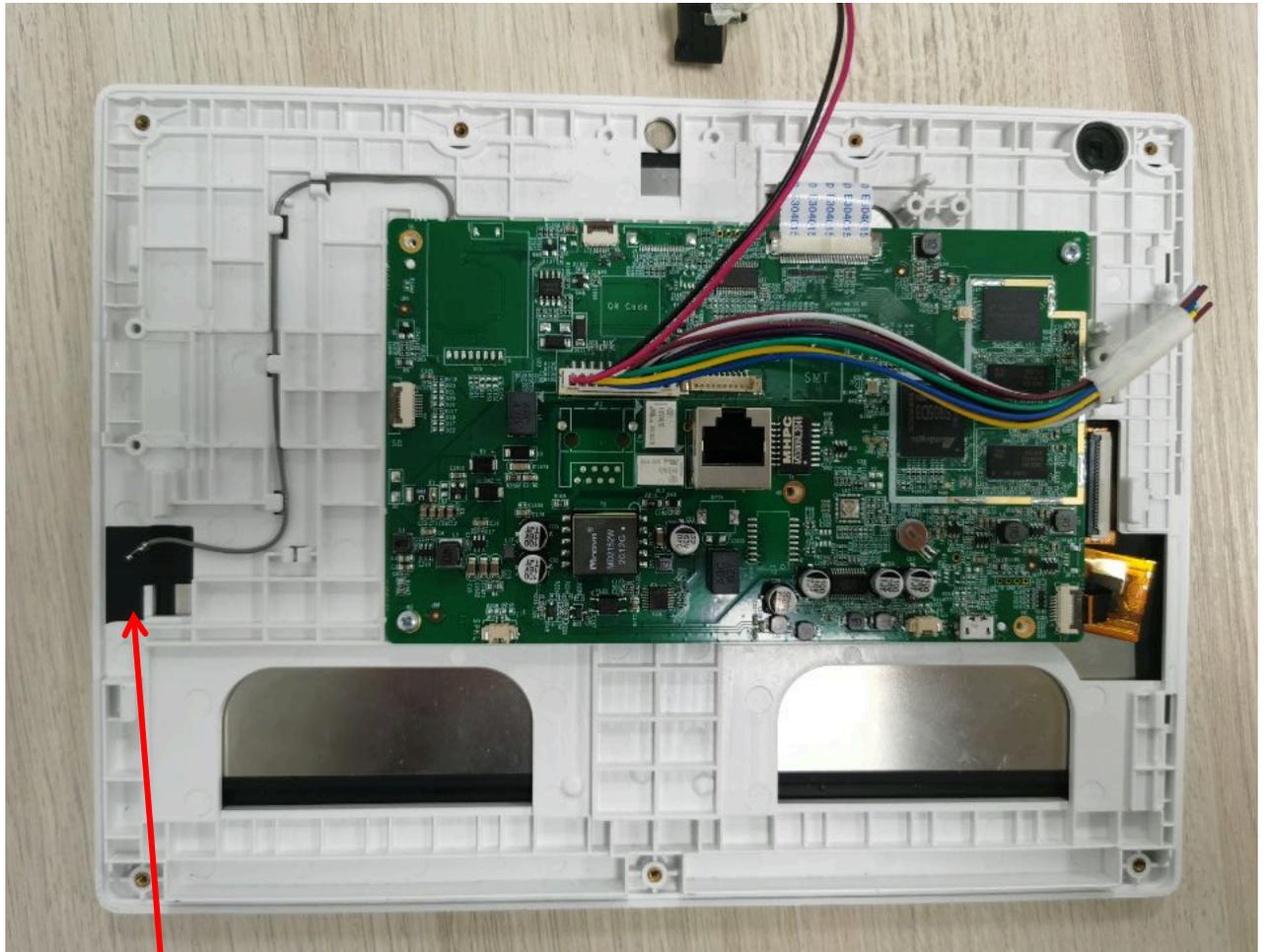


*Antenna
WiFi*





Assembly Drawing



WiFi Antenna