

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PK



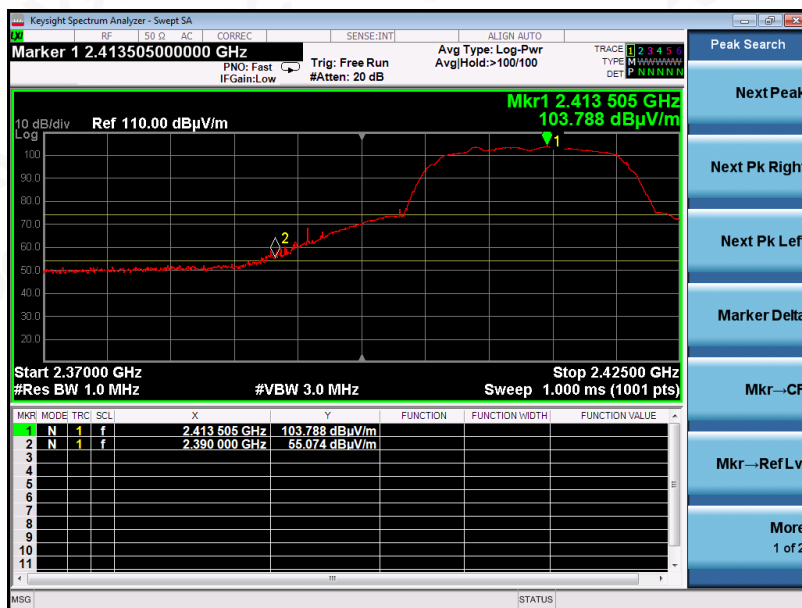
AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

EUT	WiFi Bluetooth Wall Amplifier	Model Name	VX-1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

### 13. FCC LINE CONDUCTED EMISSION TEST

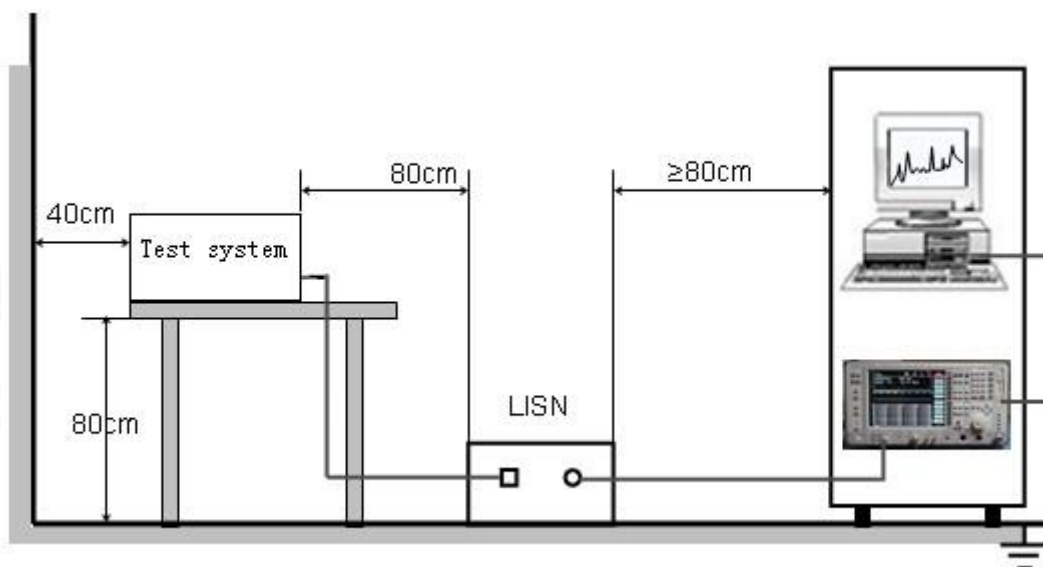
#### 13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

**Note:**

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

#### 13.2. BLOCK DIAGRAM OF TEST SETUP





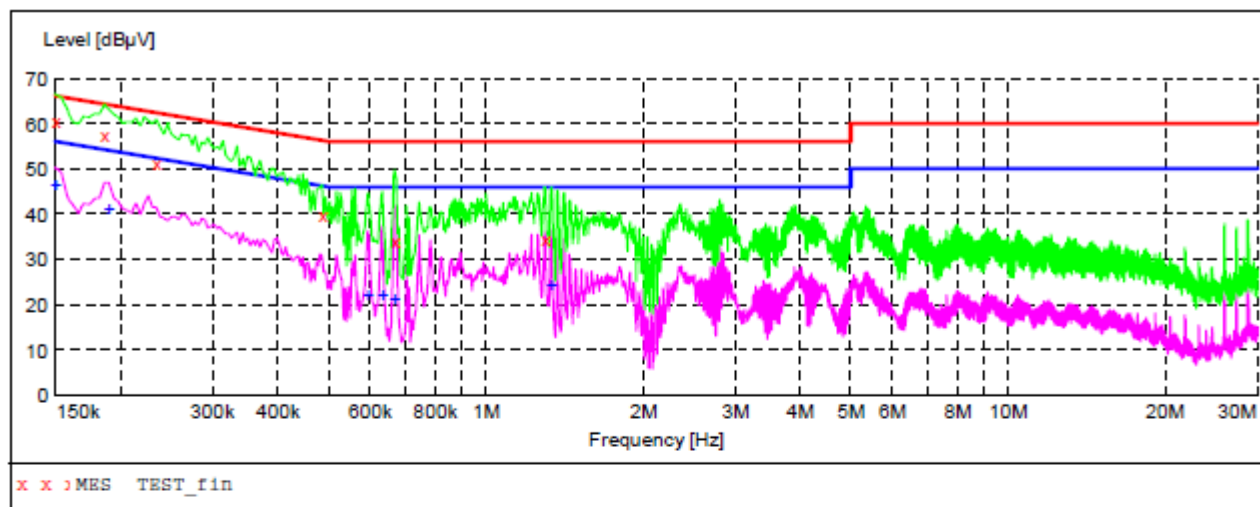
### 13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.10.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- (4) The EUT received AC120V/60Hz power from a LISN.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.



### 13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### LINE CONDUCTED EMISSION TEST-L1



#### MEASUREMENT RESULT: "TEST\_fin"

5/14/2019 2:18PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	60.60	10.3	66	5.4	QP	L1	FLO
0.186000	57.40	10.3	64	6.8	QP	L1	FLO
0.234000	51.40	10.3	62	10.9	QP	L1	FLO
0.486000	40.00	11.1	56	16.2	QP	L1	FLO
0.670000	34.20	10.5	56	21.8	QP	L1	FLO
1.298000	34.60	11.0	56	21.4	QP	L1	FLO

#### MEASUREMENT RESULT: "TEST\_fin2"

5/14/2019 2:18PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	46.70	10.3	56	9.3	AV	L1	FLO
0.190000	41.20	10.3	54	12.8	AV	L1	FLO
0.594000	22.30	10.8	46	23.7	AV	L1	FLO
0.634000	22.30	10.6	46	23.7	AV	L1	FLO
0.670000	21.40	10.5	46	24.6	AV	L1	FLO
1.334000	24.70	11.0	46	21.3	AV	L1	FLO

**RESULT: PASS**


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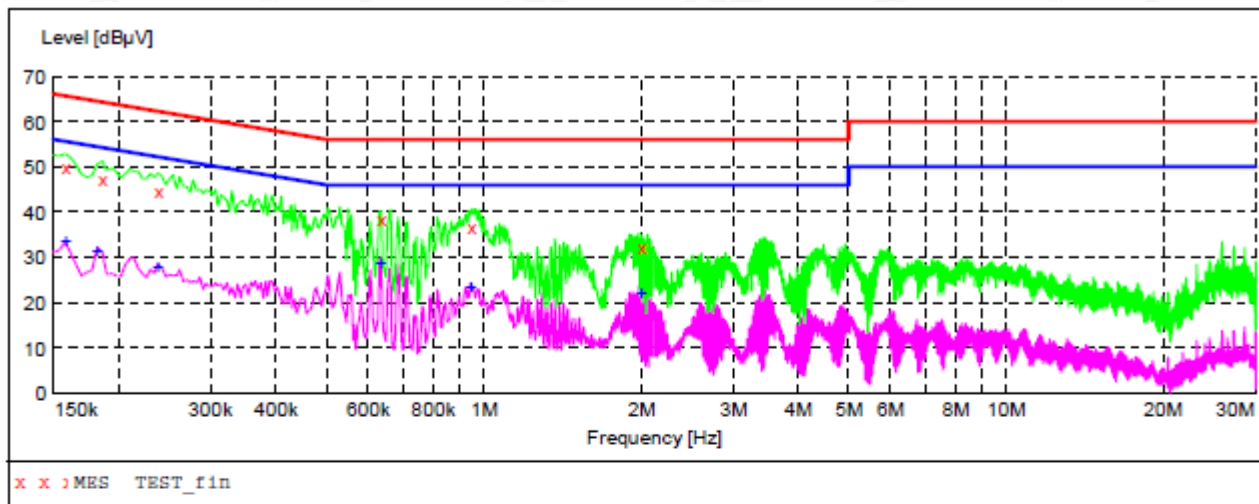
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

# LINE CONDUCTED EMISSION TEST-N



## MEASUREMENT RESULT: "TEST\_fin"

5/14/2019 2:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	50.00	10.3	66	15.6	QP	N	FLO
0.186000	47.30	10.3	64	16.9	QP	N	FLO
0.238000	44.80	10.3	62	17.4	QP	N	FLO
0.634000	38.50	10.6	56	17.5	QP	N	FLO
0.946000	36.90	11.3	56	19.1	QP	N	FLO
2.002000	32.40	10.4	56	23.6	QP	N	FLO

## MEASUREMENT RESULT: "TEST\_fin2"

5/14/2019 2:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	33.60	10.3	56	22.0	AV	N	FLO
0.182000	31.60	10.3	54	22.8	AV	N	FLO
0.238000	27.90	10.3	52	24.3	AV	N	FLO
0.634000	29.00	10.6	46	17.0	AV	N	FLO
0.946000	23.70	11.3	46	22.3	AV	N	FLO
2.002000	22.30	10.4	46	23.7	AV	N	FLO



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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

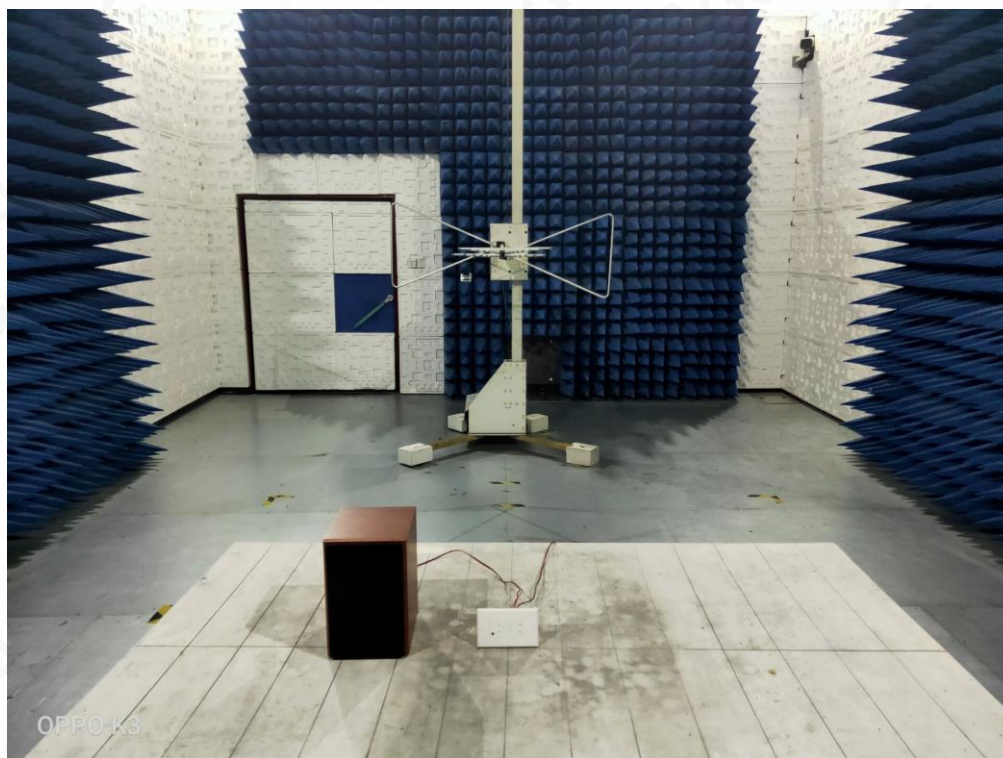
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118



## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



### FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



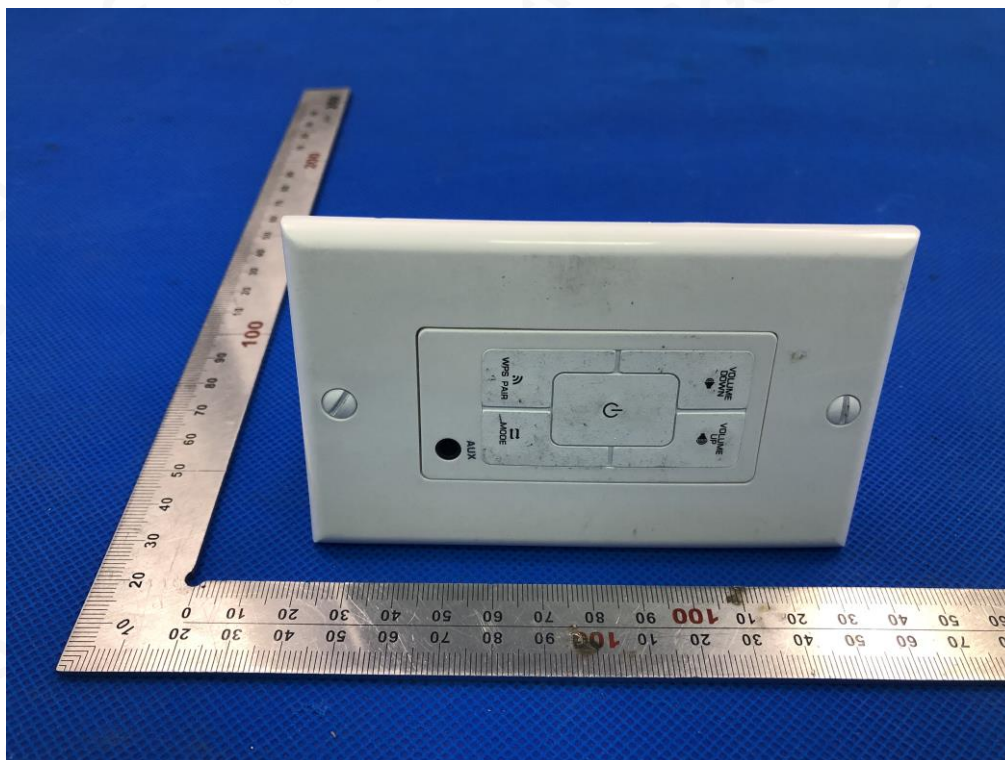


FCC CONDUCTED EMISSION TEST SETUP

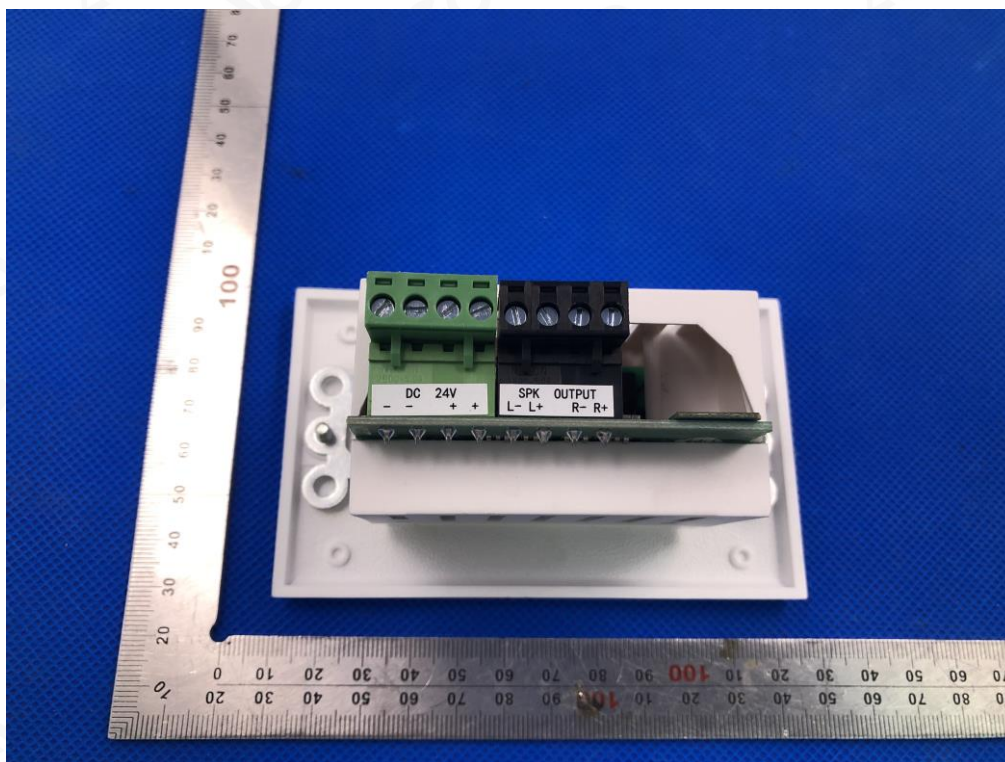


## APPENDIX B: PHOTOGRAPHS OF EUT

### TOP VIEW OF EUT

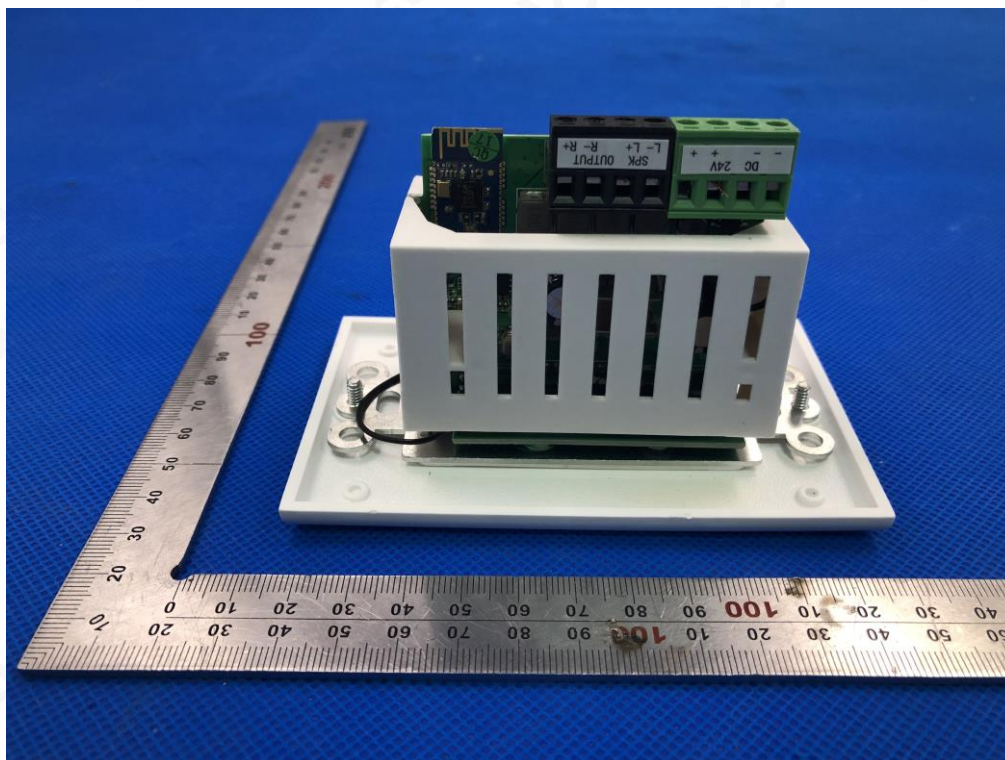


### BOTTOM VIEW OF EUT

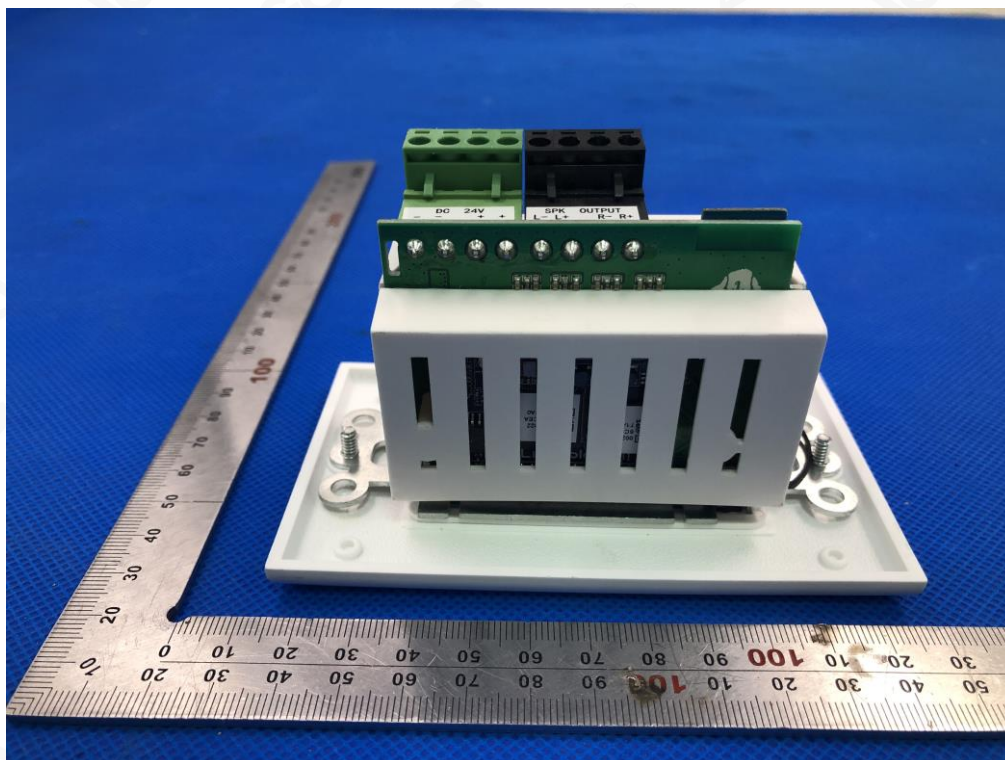




FRONT VIEW OF EUT

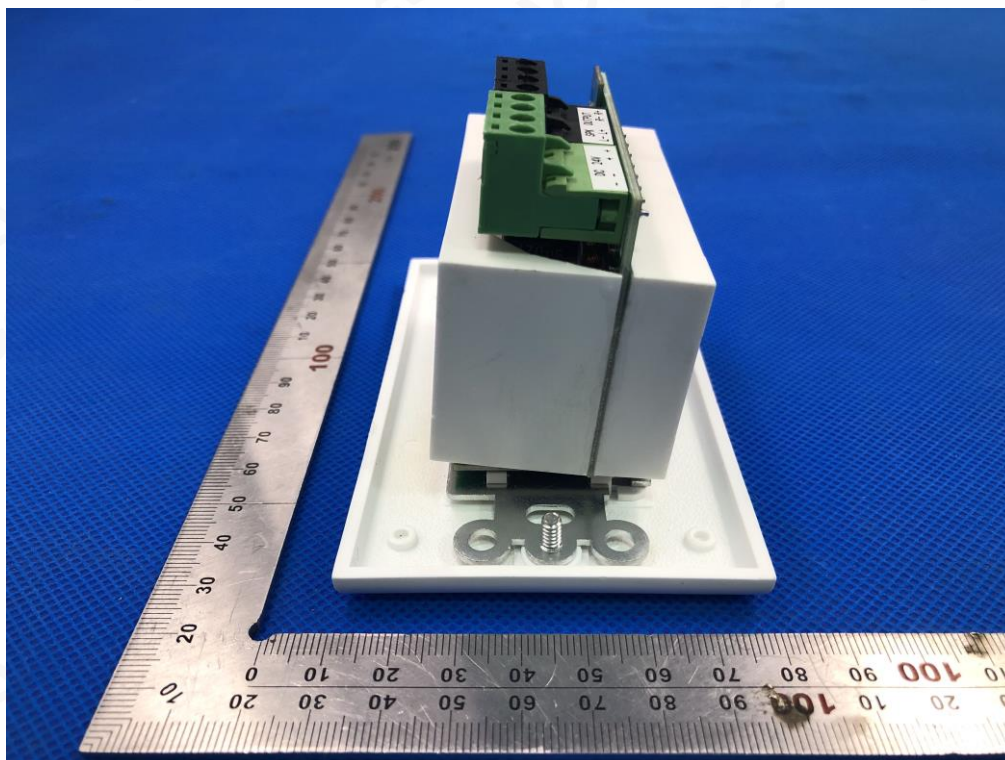


BACK VIEW OF EUT

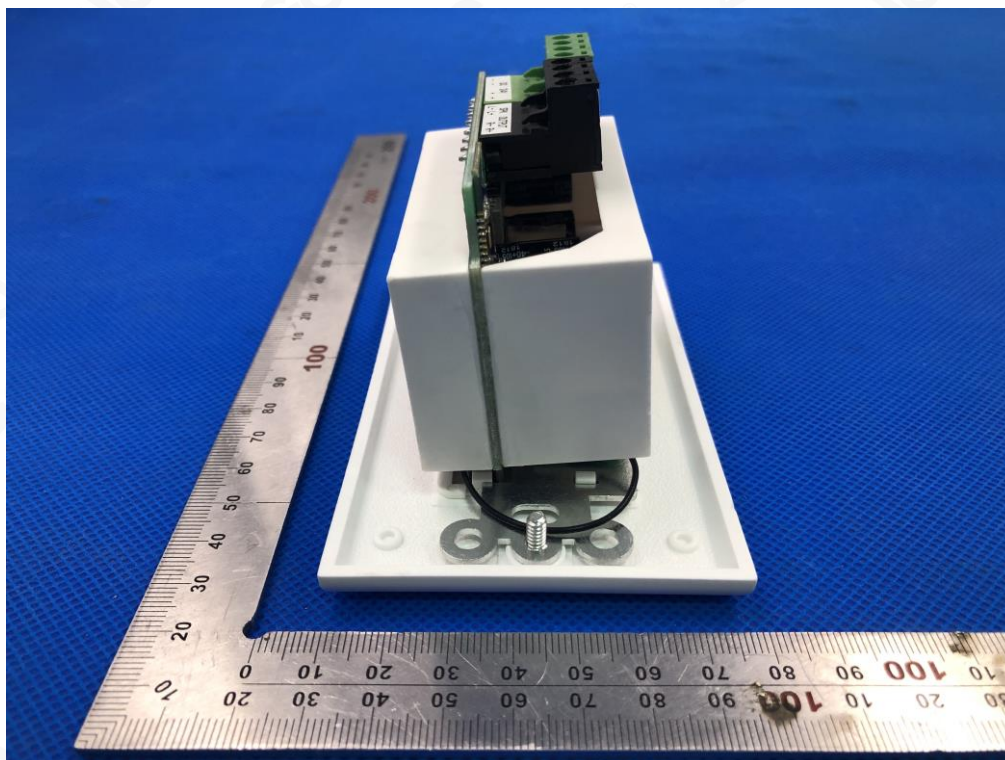




LEFT VIEW OF EUT

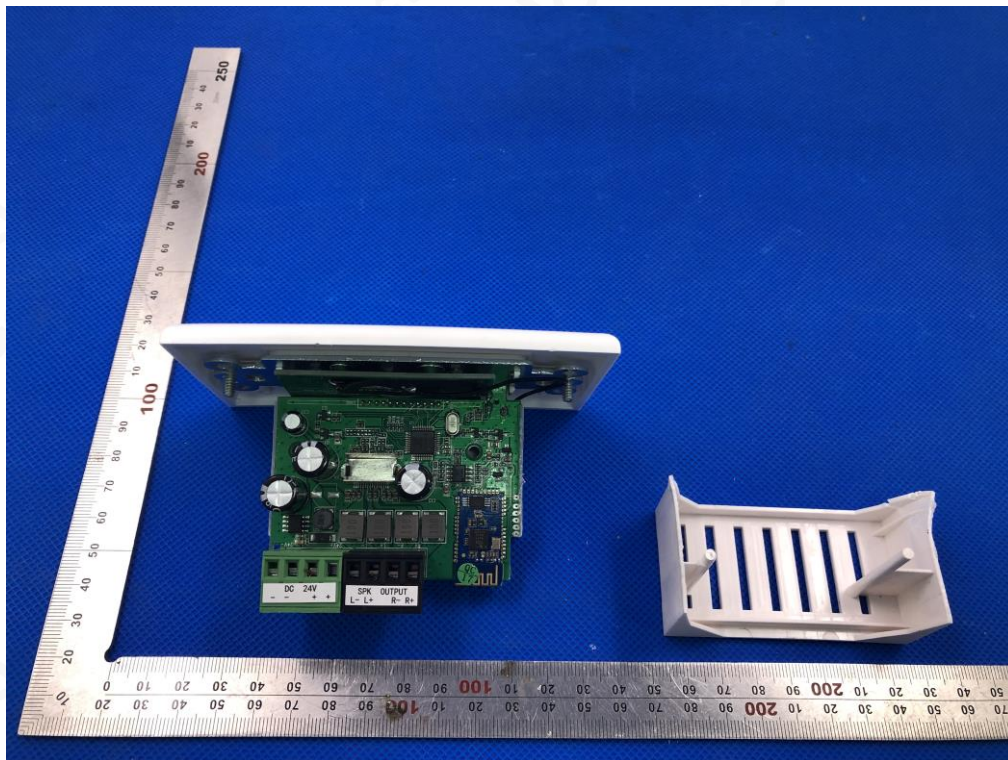


RIGHT VIEW OF EUT

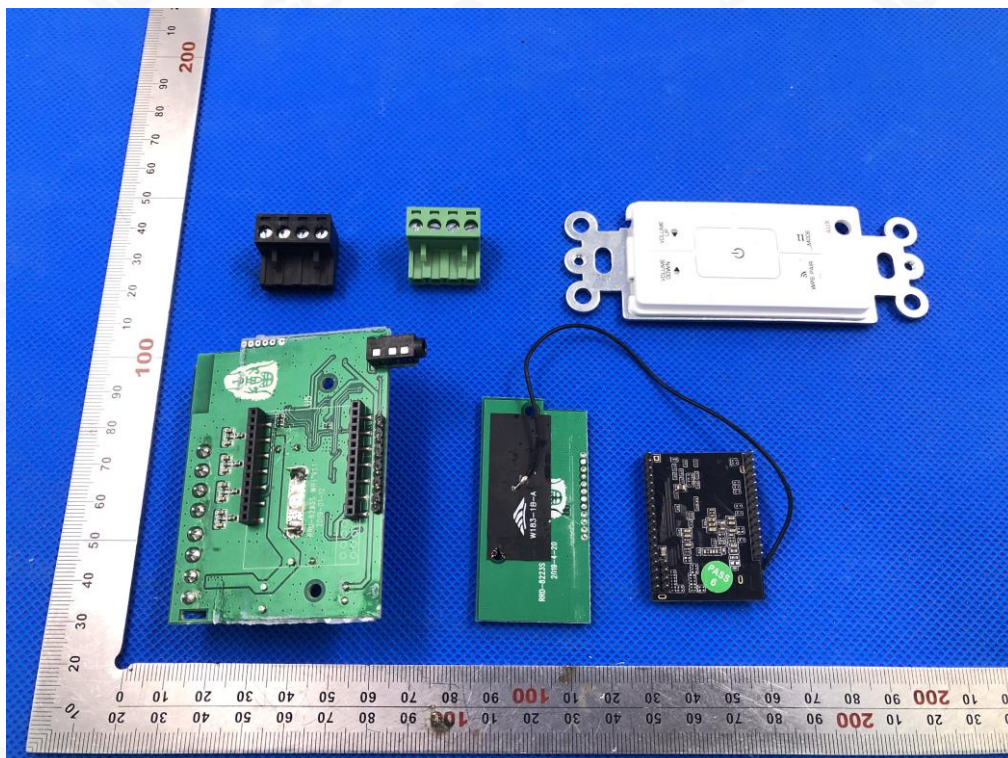




OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2

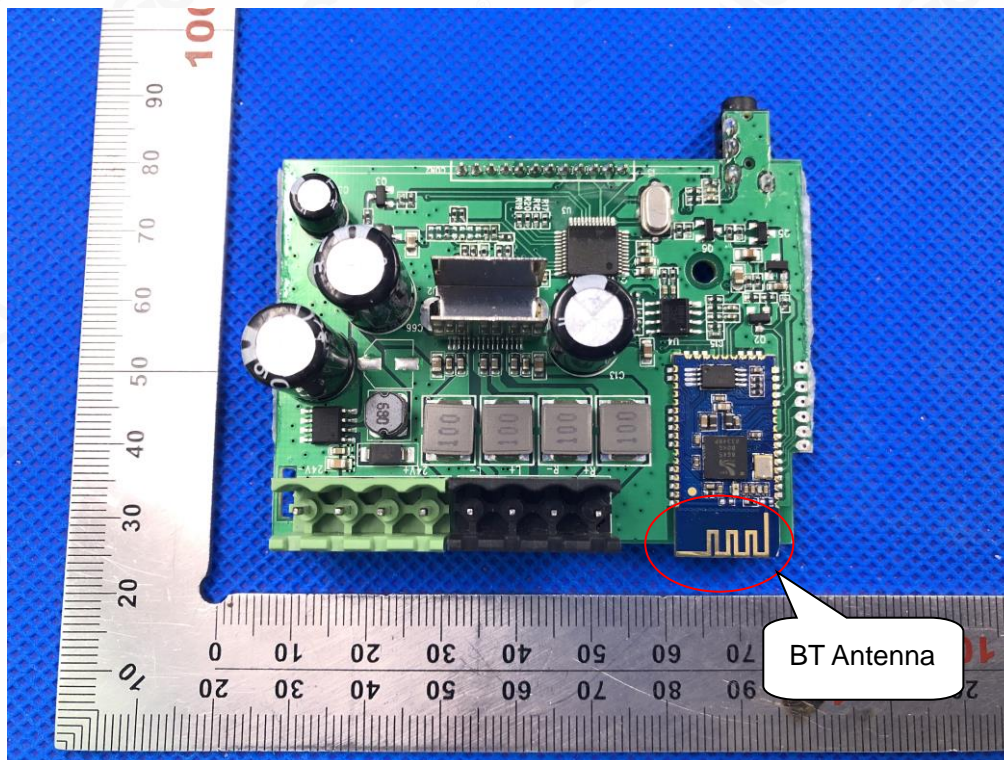




### INTERNAL VIEW OF EUT-1

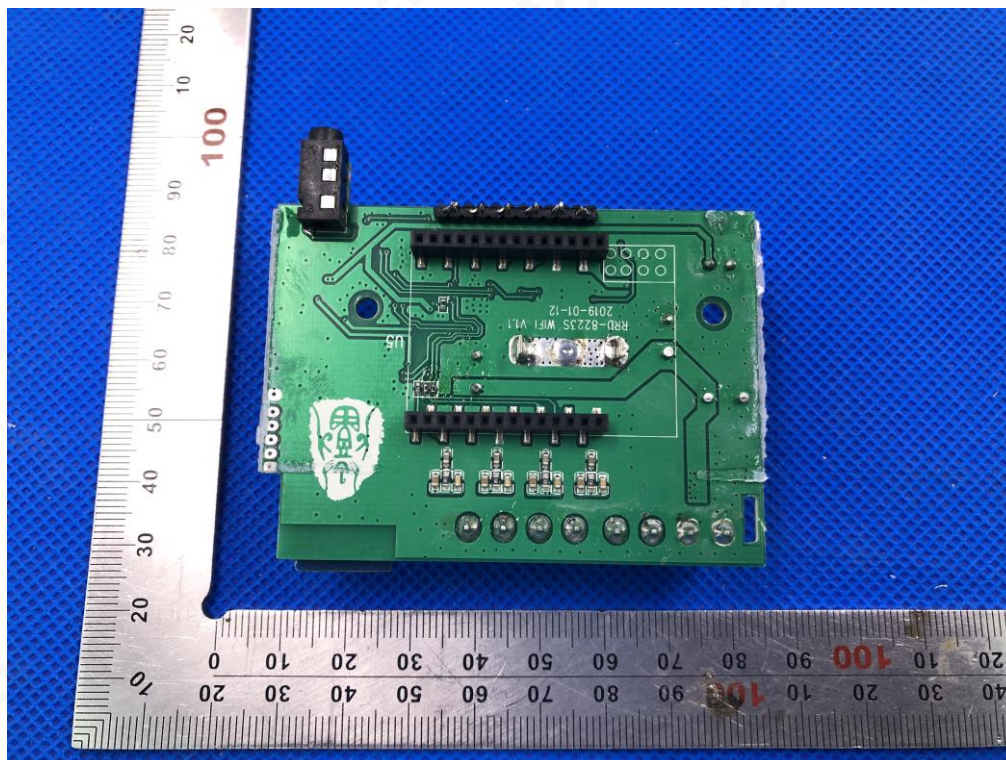


### INTERNAL VIEW OF EUT-2

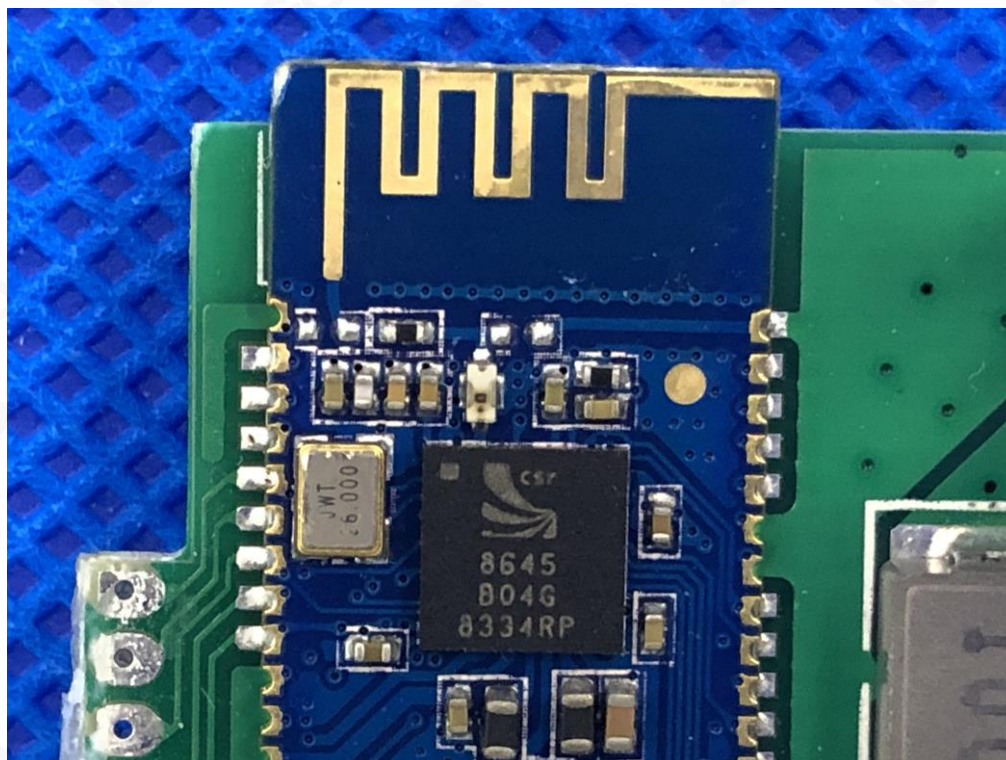




INTERNAL VIEW OF EUT-3

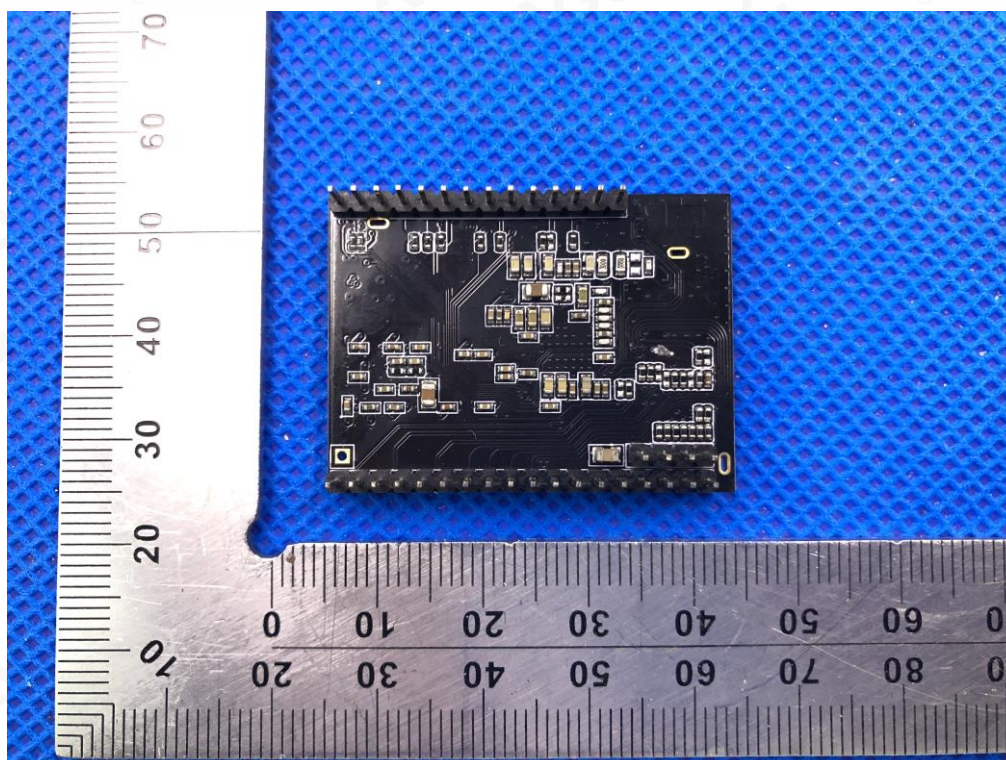


INTERNAL VIEW OF EUT-4

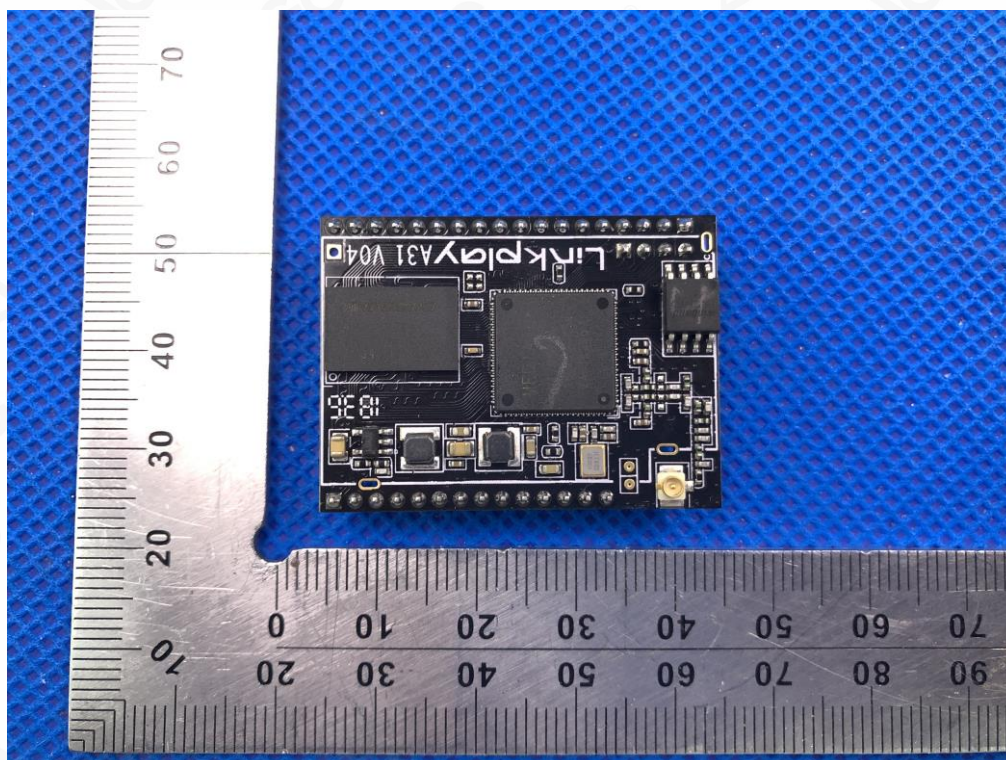




INTERNAL VIEW OF EUT-5

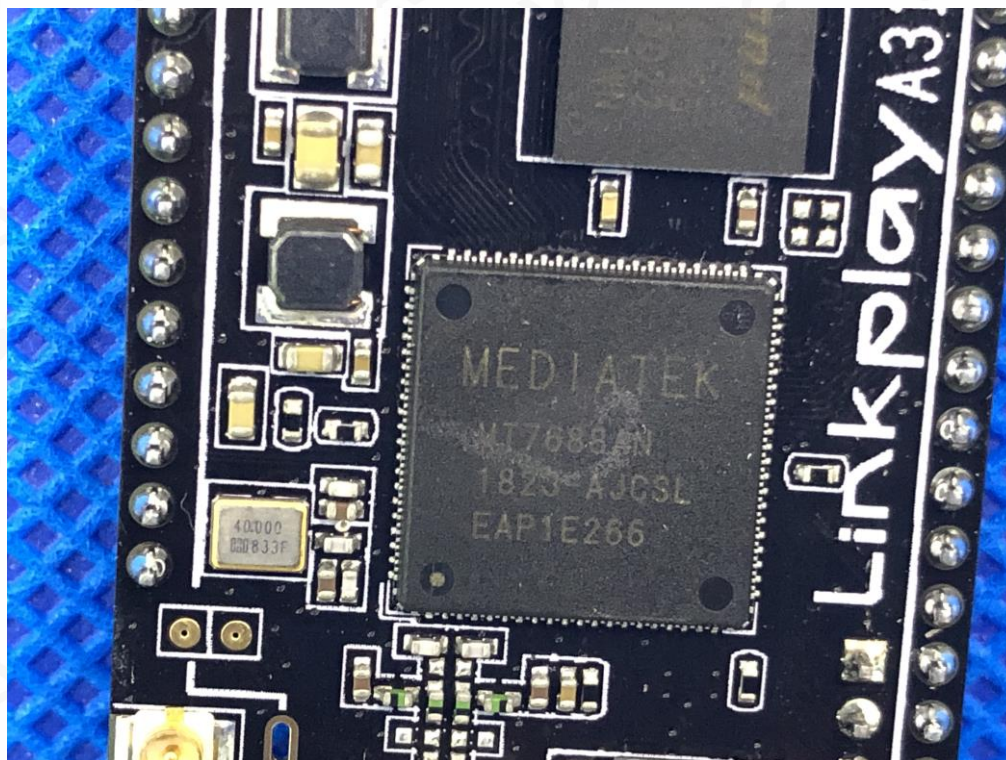


INTERNAL VIEW OF EUT-6

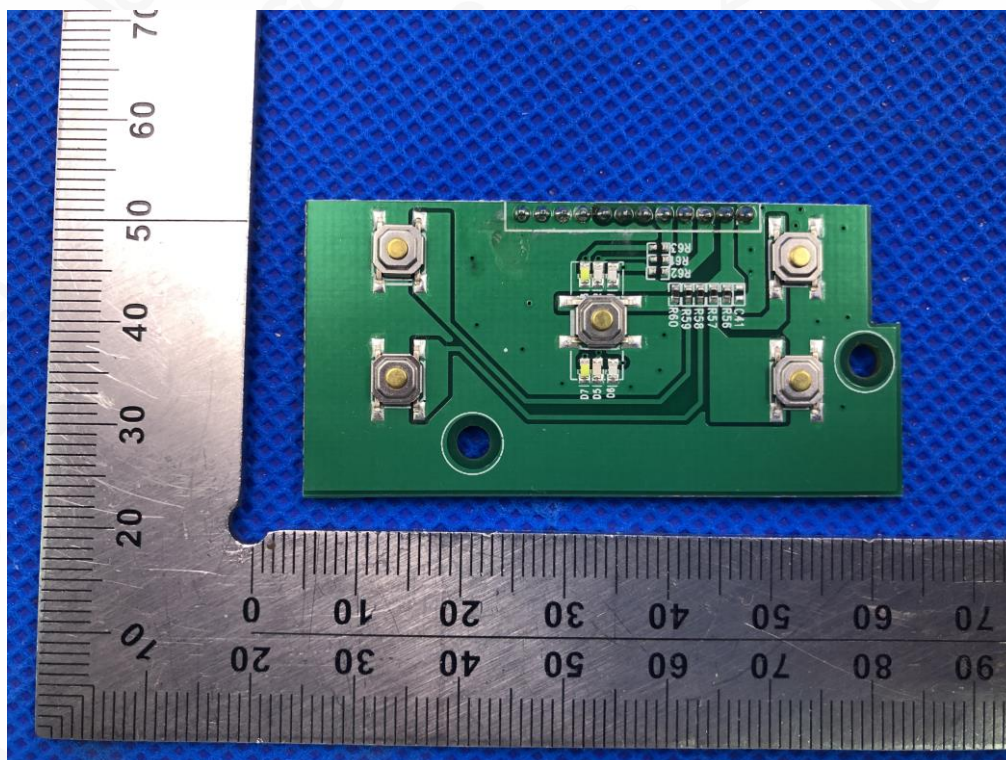




INTERNAL VIEW OF EUT-7

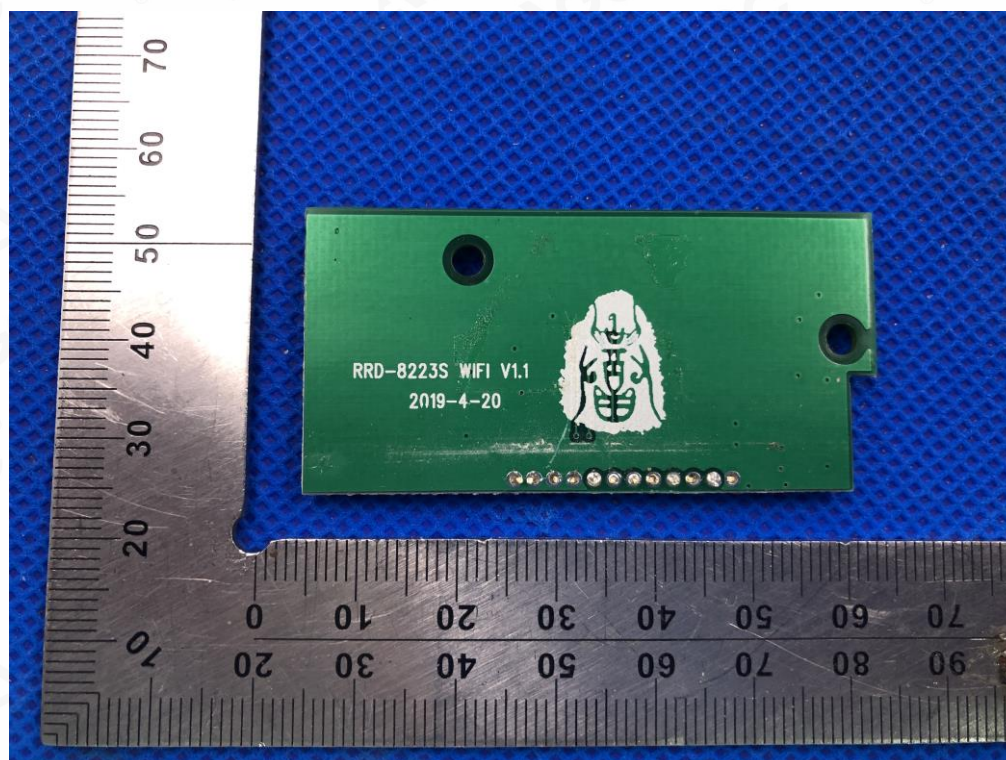


INTERNAL VIEW OF EUT-8





INTERNAL VIEW OF EUT-9



-----END OF REPORT-----



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