

EUT	1080P WiFi Smart Home Monitoring System	Model Name	T5200HCA
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**

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Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



AV



**RESULT: PASS**

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**RESULT: PASS**

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EUT	1080P WiFi Smart Home Monitoring System	Model Name	T5200HCA
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

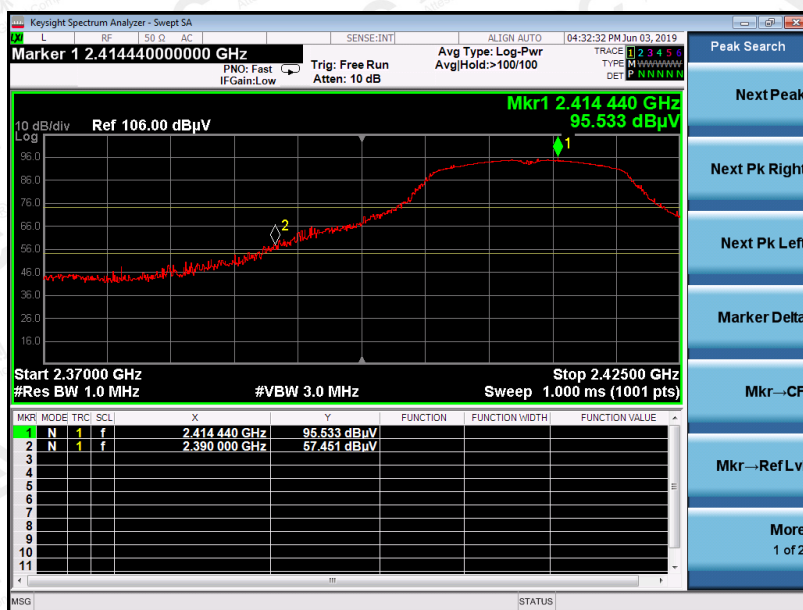


**RESULT: PASS**

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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**

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<b>EUT</b>	1080P WiFi Smart Home Monitoring System	<b>Model Name</b>	T5200HCA
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 20 with data rate 6.5 2462MHZ	<b>Antenna</b>	Horizontal

PK



AV



**RESULT: PASS**

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PK



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**RESULT: PASS**

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### 13. FCC LINE CONDUCTED EMISSION TEST

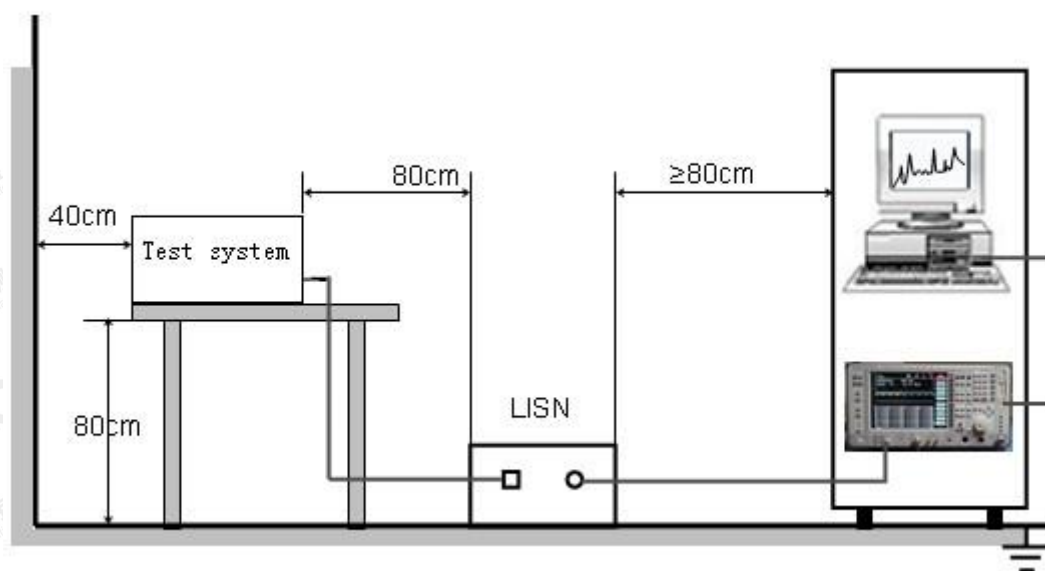
#### 13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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



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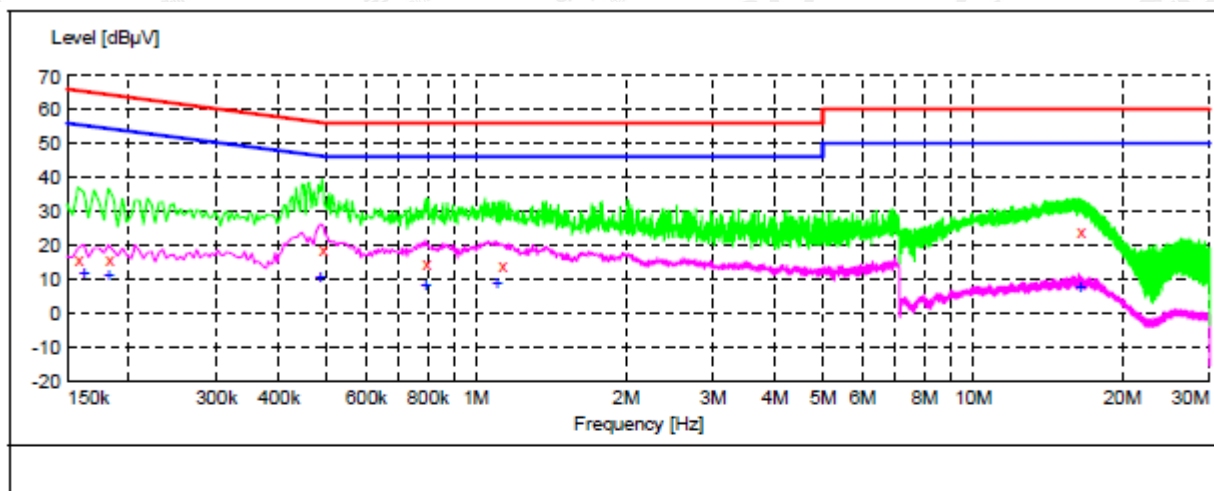
### 13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (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 DC 5V power from adapter which 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.

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

#### LINE CONDUCTED EMISSION TEST-L1



#### MEASUREMENT RESULT: "TEST\_f1n"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	16.10	10.8	66	49.5	QP	L1	FLO
0.182000	15.70	10.9	64	48.7	QP	L1	FLO
0.490000	19.20	11.1	56	37.0	QP	L1	FLO
0.790000	14.60	10.7	56	41.4	QP	L1	FLO
1.126000	14.30	11.5	56	41.7	QP	L1	FLO
16.478000	24.40	12.3	60	35.6	QP	L1	FLO

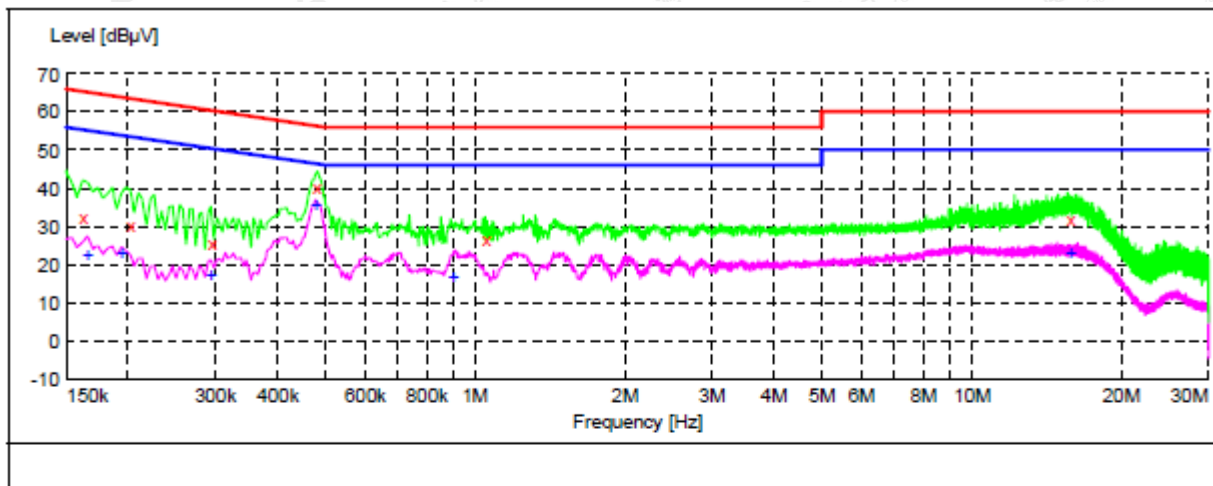
#### MEASUREMENT RESULT: "TEST\_f1n2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	11.70	10.8	55	43.7	AV	L1	FLO
0.182000	11.50	10.9	54	42.9	AV	L1	FLO
0.486000	10.70	11.1	46	35.5	AV	L1	FLO
0.790000	8.30	10.7	46	37.7	AV	L1	FLO
1.098000	8.80	11.5	46	37.2	AV	L1	FLO
16.470000	7.90	12.3	50	42.1	AV	L1	FLO

**RESULT: PASS**

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# LINE CONDUCTED EMISSION TEST-N



## MEASUREMENT RESULT: "TEST\_f1n"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	32.50	10.8	65	32.9	QP	N	FLO
0.202000	30.30	10.9	64	33.2	QP	N	FLO
0.294000	25.50	10.9	60	34.9	QP	N	FLO
0.478000	40.50	11.0	56	15.9	QP	N	FLO
1.050000	26.90	11.4	56	29.1	QP	N	FLO
15.798000	31.70	12.2	60	28.3	QP	N	FLO

## MEASUREMENT RESULT: "TEST\_f1n2"

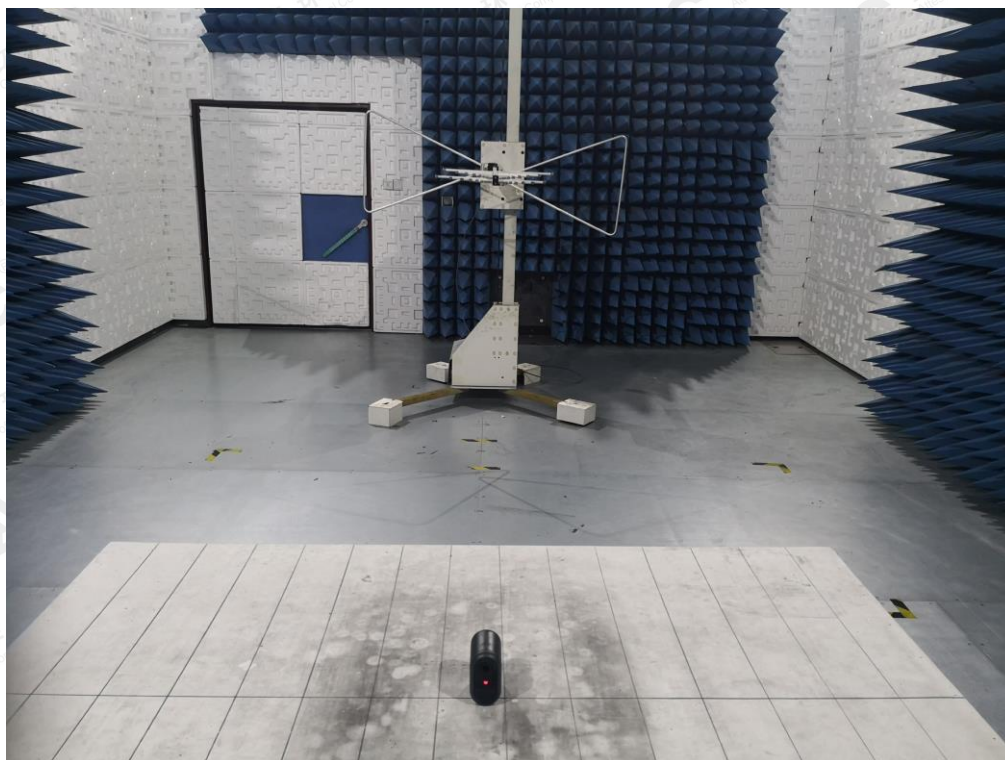
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	22.60	10.8	55	32.6	AV	N	FLO
0.194000	22.80	10.9	54	31.1	AV	N	FLO
0.294000	17.10	10.9	50	33.3	AV	N	FLO
0.478000	35.50	11.0	46	10.9	AV	N	FLO
0.902000	16.80	11.1	46	29.2	AV	N	FLO
15.850000	22.90	12.2	50	27.1	AV	N	FLO

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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



### FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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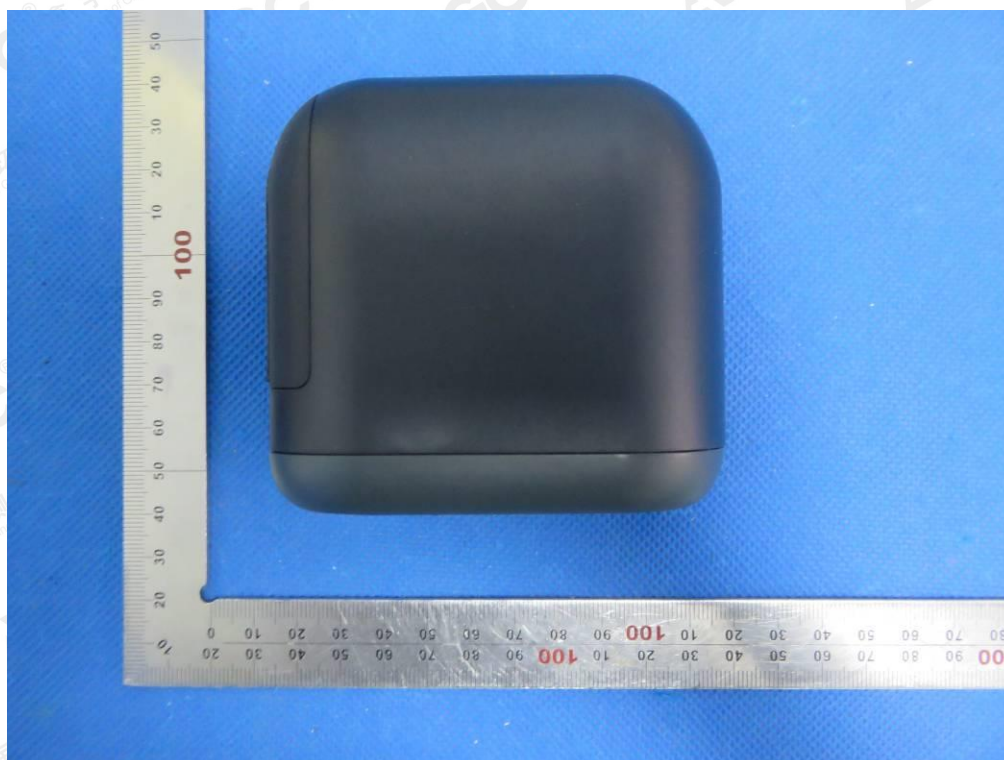


## APPENDIX B: PHOTOGRAPHS OF EUT

### ALL VIEW OF EUT



### TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



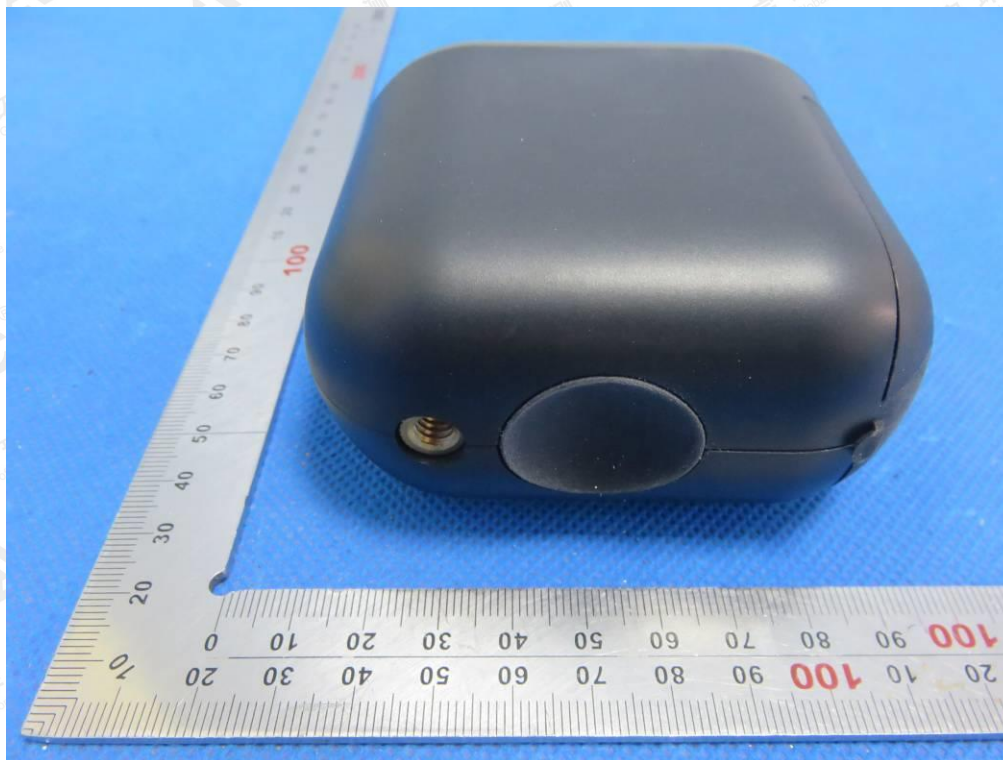
FRONT VIEW OF EUT



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BACK VIEW OF EUT

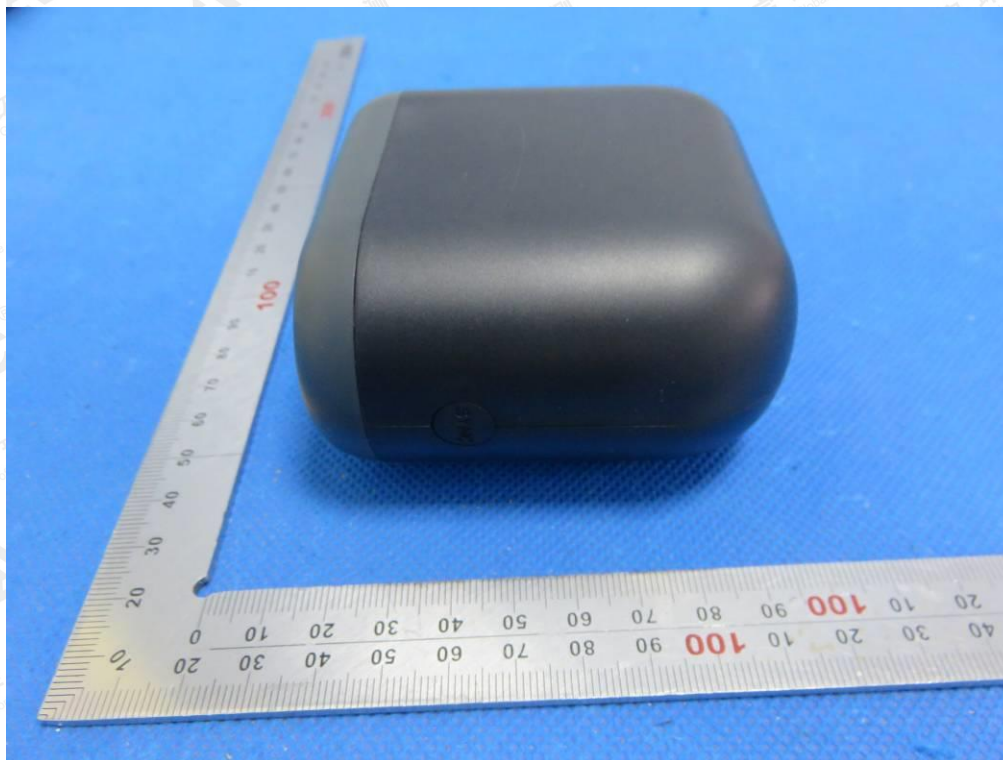


LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT(PORT)



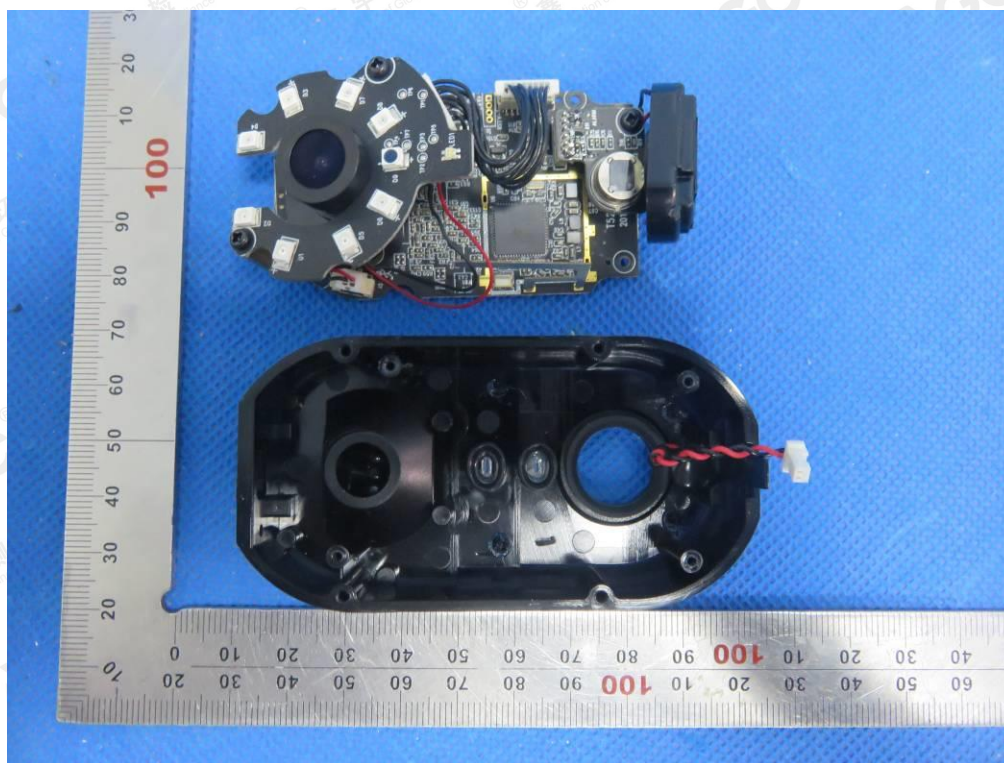
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OPEN VIEW OF EUT-1



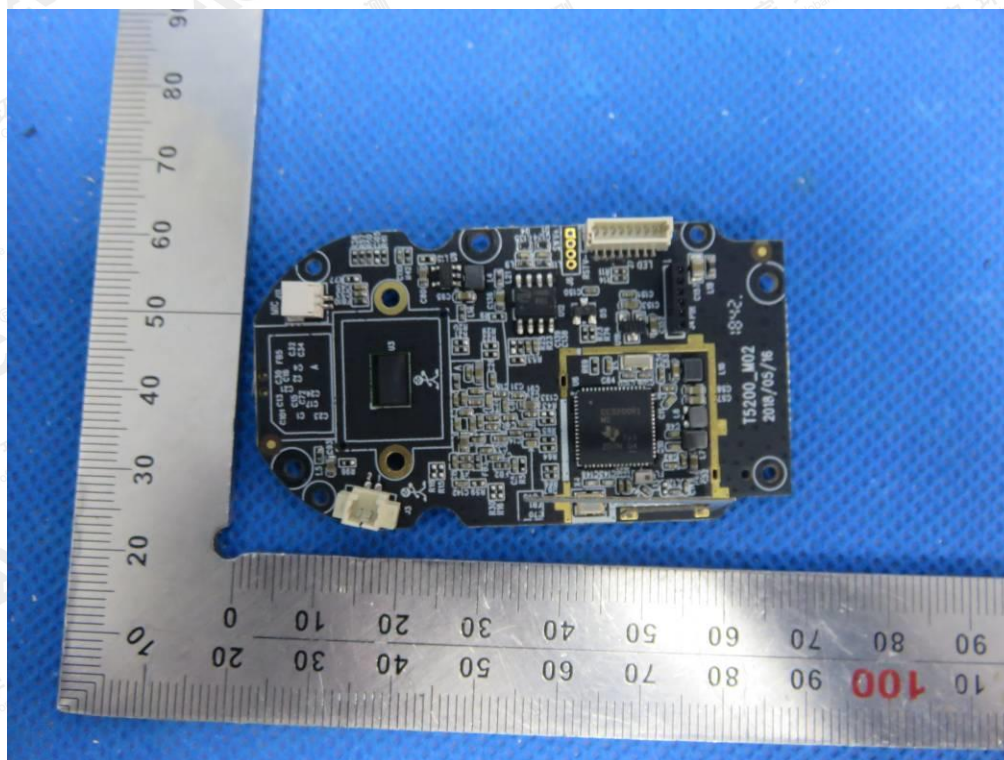
OPEN VIEW OF EUT-2



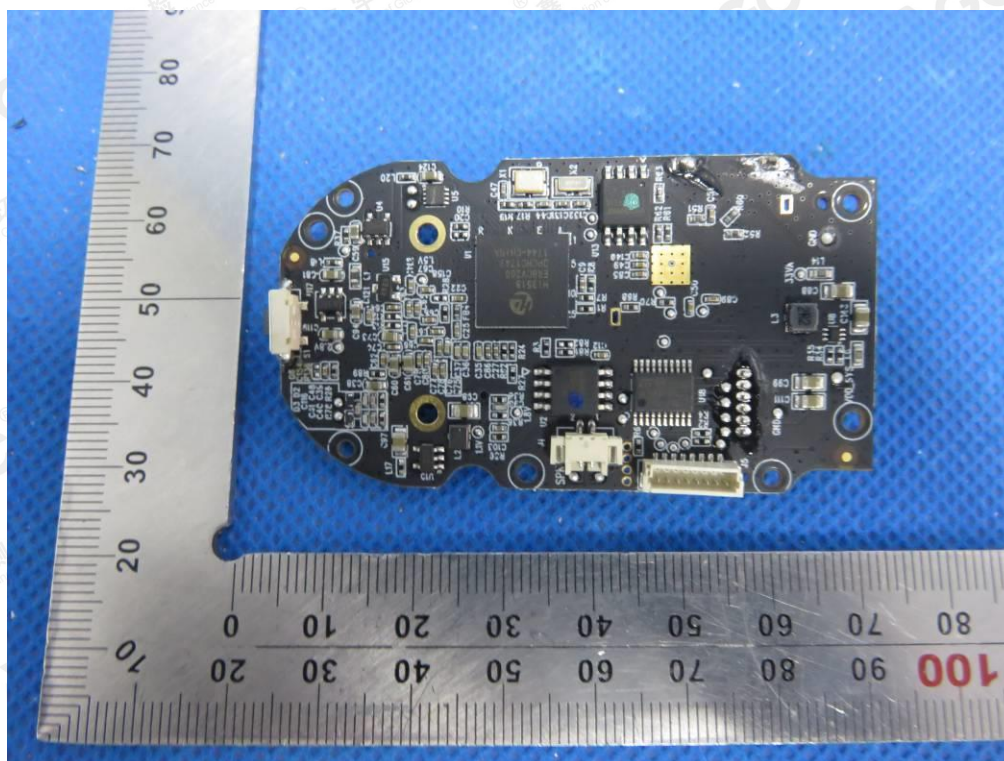
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INTERNAL VIEW OF EUT-1



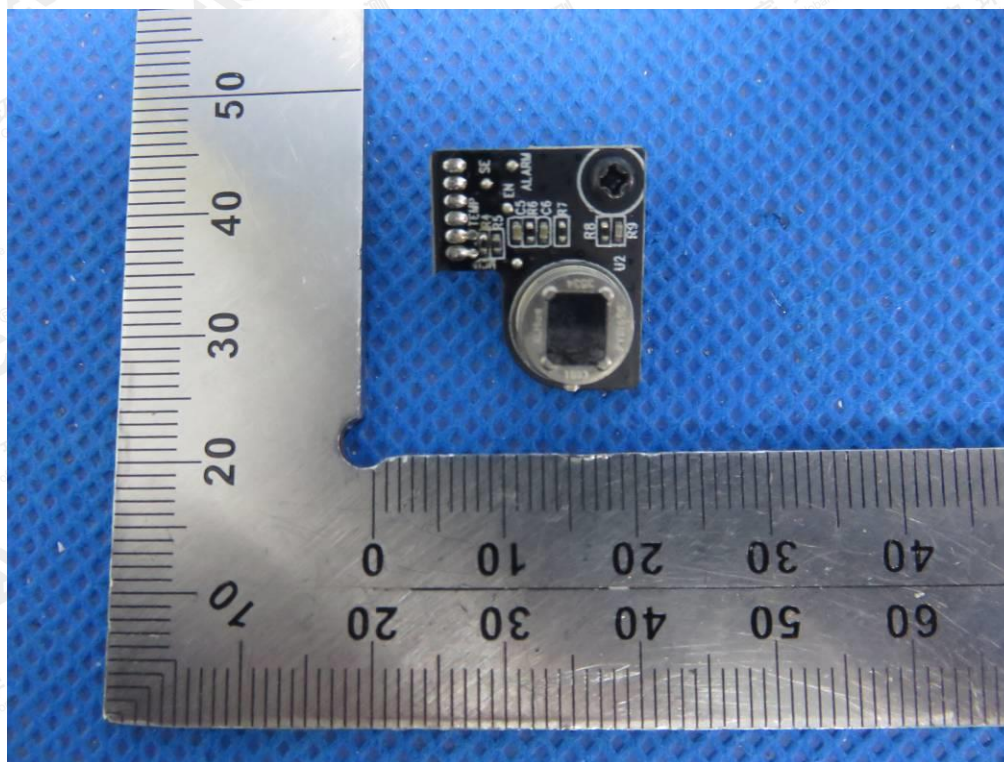
INTERNAL VIEW OF EUT-2



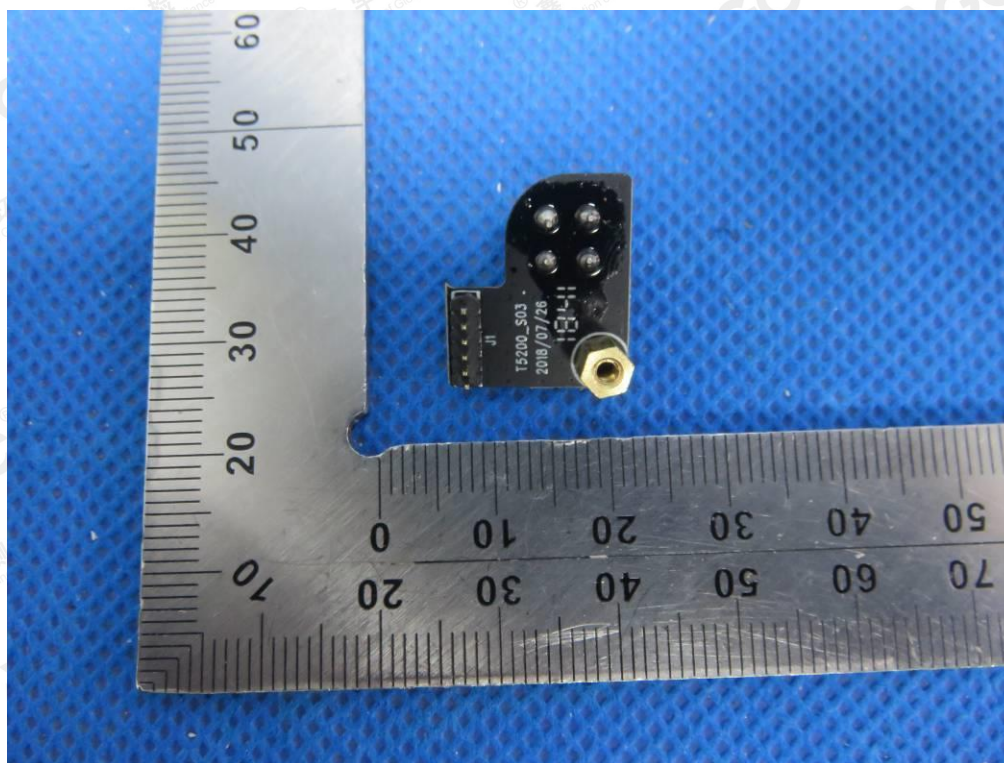
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



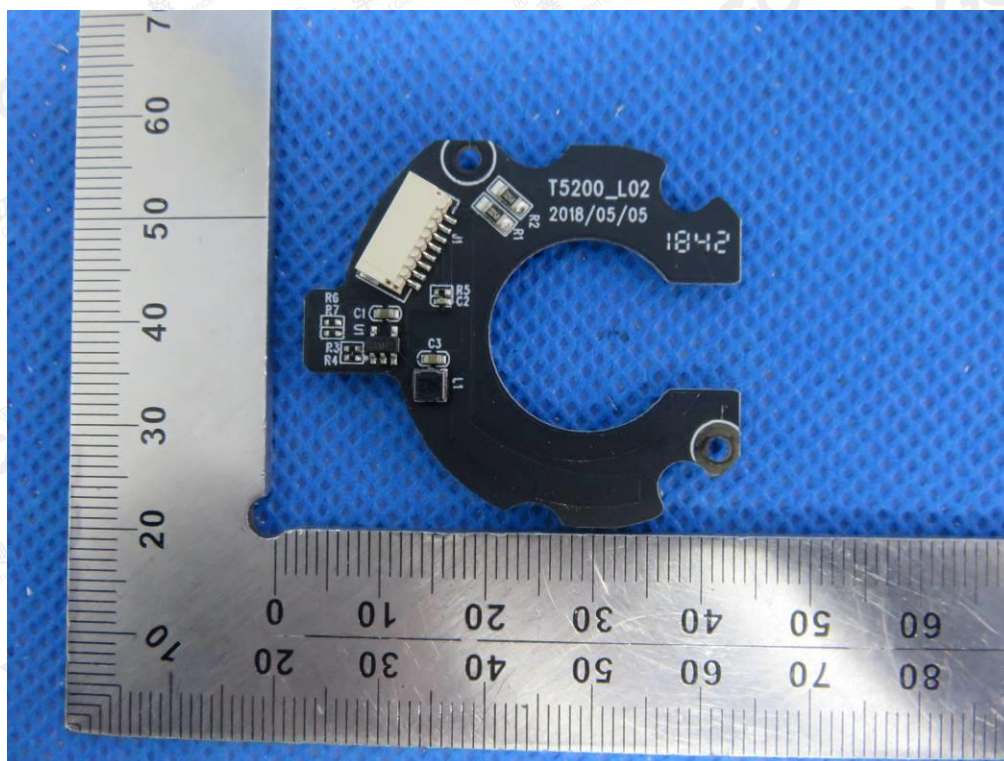
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INTERNAL VIEW OF EUT-5



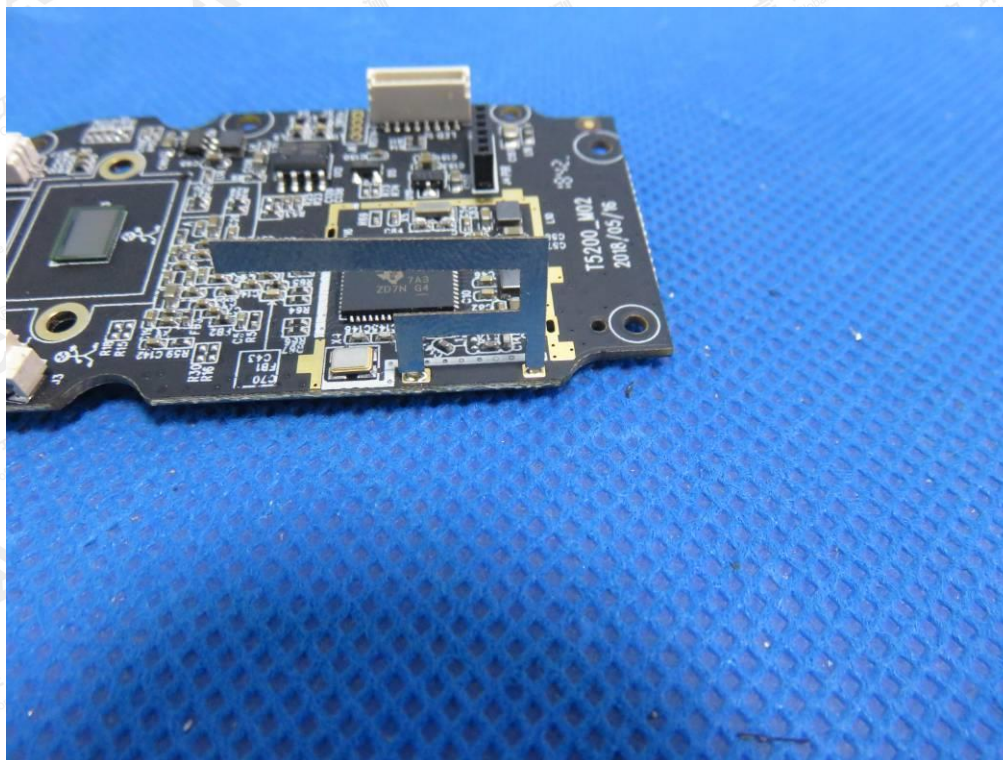
INTERNAL VIEW OF EUT-6



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ANTANNA



---END OF REPORT---

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