



HUAKE TESTING

FCC TEST REPORT

Prepared for :

EDA Technology Shanghai Co., Ltd.

Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Product Name: ED-HMI2000

Trade Mark: EDA

**Product Model (S): ED-HMI2020-101C, ED-HMI2020-050C,
ED-HMI2020-070C, ED-HMI2020-050R,
ED-HMI2020-070R, ED-HMI2020-101R**

Date of Test: Dec. 07, 2023 – Dec. 22, 2023

Date of Report: Dec. 22, 2023

Report Number: HK2312075948-1ER

Prepared By :

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The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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TEST REPORT VERIFICATION

Applicant : EDA Technology Shanghai Co., Ltd.
Address : Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC
Manufacturer : EDA Technology Shanghai Co., Ltd.
Address : Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC
Product Name : ED-HMI2000
(A) Product Model : ED-HMI2020-101C
(B) Series Model : ED-HMI2020-050C, ED-HMI2020-070C, ED-HMI2020-050R,
ED-HMI2020-070R, ED-HMI2020-101R
(C) Power Supply : Input: 9-28VDC, 24W

Standards FCC Part 15 Subpart B
ANSI C63.4:2019

This device described above has been tested by HUAKE, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Test Result **Pass**

Date of Test: Dec. 07, 2023 – Dec. 22, 2023

Prepared by: *Kevin Pan*
Project Engineer

Reviewed by: *Shirley Wm*
Project Supervisor

Approved by: *Jason Zhou*
Technical Director



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**** Modified History ****

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|-------------|------------|
| Revision 1.0 | Initial Test Report Release | 2023/12/22 | Jason Zhou |
| | | | |
| | | | |



1. TEST SUMMARY

Test procedures according to the technical standards:

| EMC Emission | | | | |
|--|--------------------|---------|----------|--------|
| Standard | Test Item | Limit | Judgment | Remark |
| FCC Part 15 Subpart B ANSI C63.4:2019 | Conducted Emission | Class B | PASS | |
| | Radiated Emission | Class B | PASS | |

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

Shenzhen HUAKE Testing Technology Co., Ltd.

Add. : 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

| Measurement Frequency Range | Uncertainty | NOTE |
|-----------------------------|---------------------|------|
| 150 KHz ~ 30MHz | $\pm 2.71\text{dB}$ | |

B. Radiated Measurement :

| Measurement Frequency Range | Uncertainty | NOTE |
|-----------------------------|---------------------|------|
| 30MHz ~ 1000MHz | $\pm 3.90\text{dB}$ | |
| 1GHz ~6GHz | $\pm 4.28\text{dB}$ | |



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|---------------------|--|-----|
| Product Name | ED-HMI2000 | |
| Product Model | ED-HMI2020-101C | |
| Series Model | ED-HMI2020-050C, ED-HMI2020-070C, ED-HMI2020-050R, ED-HMI2020-070R, ED-HMI2020-101R | |
| Model Difference | The main difference between different models is that the size of the LCD screen is not the same, and the maximum size is tested. Test sample model: ED-HMI2020-101C. | |
| Product Description | The EUT is a ED-HMI2000. | |
| | Operating frequency: | N/A |
| | Connecting I/O port: | N/A |
| | Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. | |
| Power Source | DC Voltage | |
| Power Rating | Input: 9-28VDC, 24W | |



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1 | Working |

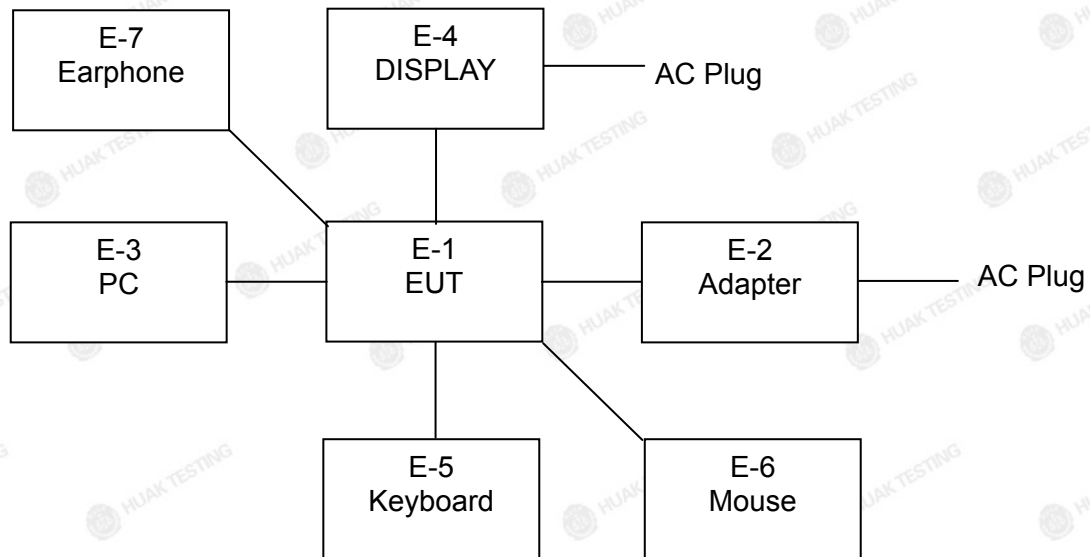
| For Conducted Test | |
|--------------------|-------------|
| Final Test Mode | Description |
| Mode 1 | Working |

| For Radiated Test | |
|-------------------|-------------|
| Final Test Mode | Description |
| Mode 1 | Working |



2.3 DESCRIPTION OF TEST SETUP


Mode 1:





2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Trade Mark | Model/Type No. | Series No. | Note |
|------|------------|---|-----------------------|------------|------|
| E-1 | ED-HMI2000 |  | ED-HMI2020-101C | N/A | EUT |
| E-2 | Adapter | N/A | KSASB0241200200 D5 | N/A | |
| E-3 | PC | Lenovo | ThinkpadE450 | N/A | |
| E-4 | DISPLAY | AOC | 280LM00004 | N/A | |
| E-5 | Keyboard | N/A | N/A | N/A | |
| E-6 | Mouse | N/A | N/A | N/A | |
| E-7 | Earphone | N/A | N/A | N/A | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

**2.5 MEASUREMENT INSTRUMENTS LIST**

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---|-----------------|---------------------|------------|---------------|---------------|
| 1. | L.I.S.N. Artificial Mains Network | R&S | ENV216 | HKE-002 | Feb. 17, 2023 | 1 Year |
| 2. | Receiver | R&S | ESR-7 | HKE-010 | Feb. 17, 2023 | 1 Year |
| 3. | RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Feb. 17, 2023 | 1 Year |
| 4. | Spectrum analyzer | R&S | FSP40 | HKE-025 | Feb. 17, 2023 | 1 Year |
| 5. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Feb. 17, 2023 | 1 Year |
| 6. | Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Feb. 17, 2023 | 1 Year |
| 7. | EMI Test Receiver | Rohde & Schwarz | ESR-7 | HKE-010 | Feb. 17, 2023 | 1 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | HKE-012 | Feb. 17, 2023 | 1 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Feb. 17, 2023 | 1 Year |
| 10. | Horn Antenna | Schwarzbeck | 9120D | HKE-013 | Feb. 17, 2023 | 1 Year |
| 11. | Pre-amplifier | Schwarzbeck | EMC05184 5SE | HKE-015 | Feb. 17, 2023 | 1 Year |
| 12. | Pre-amplifier | Agilent | 83051A | HKE-016 | Feb. 17, 2023 | 1 Year |
| 13. | EMI Test Software EZ-EMC | Tonscend | JS1120-B Version | HKE-083 | Feb. 17, 2023 | 1 Year |
| 14. | Power Sensor | Agilent | E9300A | HKE-086 | Feb. 17, 2023 | 1 Year |
| 15. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Feb. 17, 2023 | 1 Year |
| 16. | Signal generator | Agilent | N5182A | HKE-029 | Feb. 17, 2023 | 1 Year |
| 17. | Signal Generator | Agilent | 83630A | HKE-028 | Feb. 17, 2023 | 1 Year |
| 18. | Shielded room | Shiel Hong | 4*3*3 | HKE-039 | Feb. 17, 2023 | 1 Year |



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|---------|----------------|-----------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

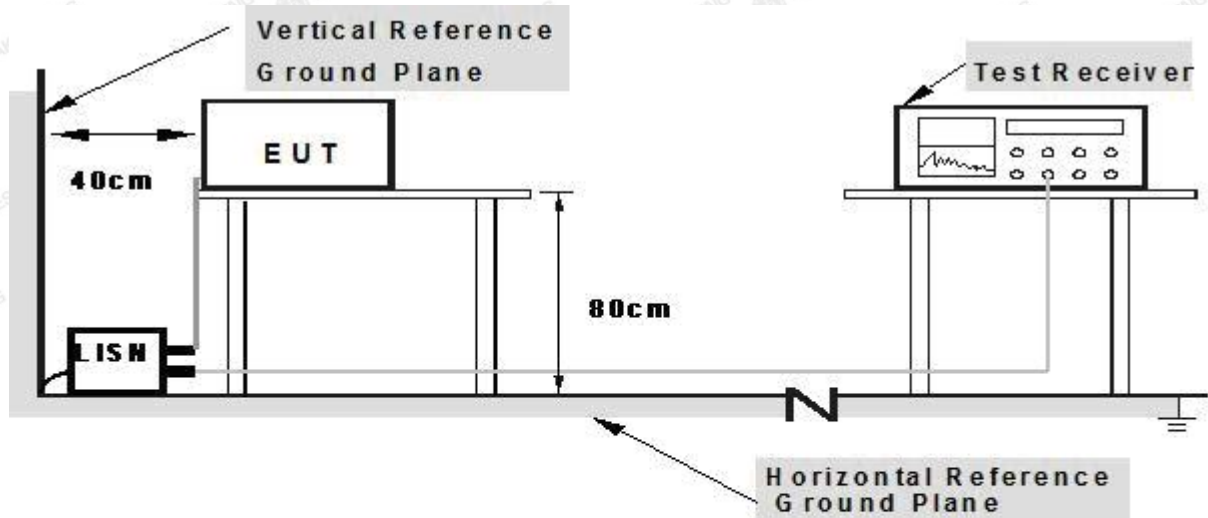
| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |



3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

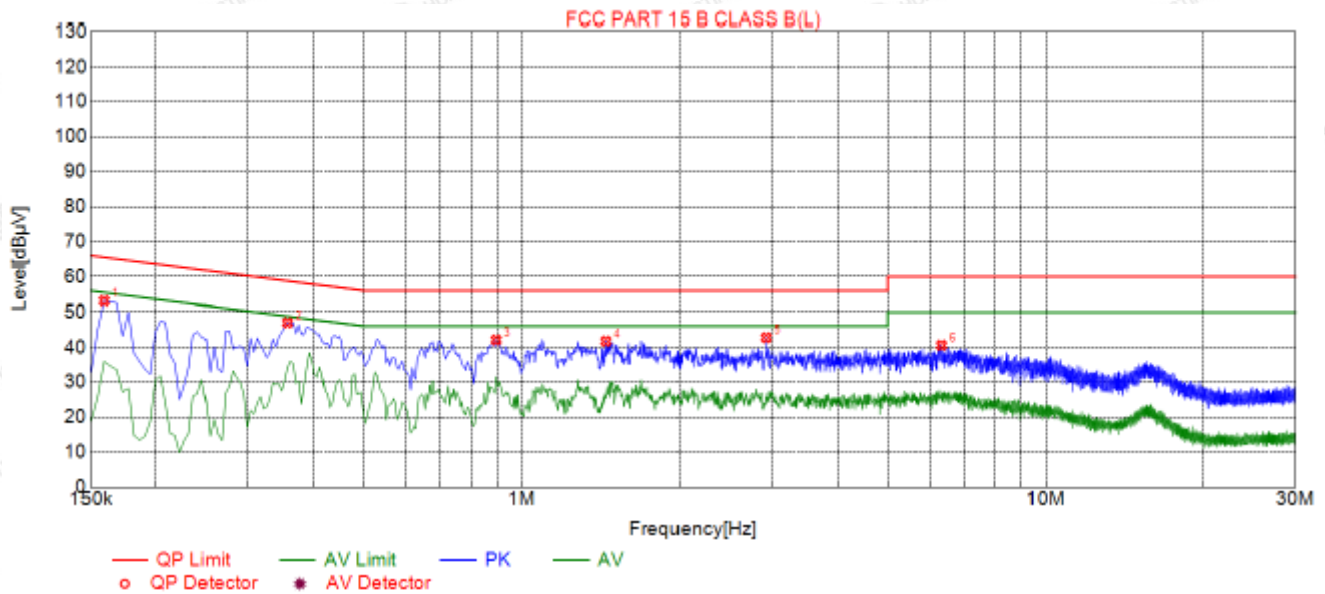
3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 TEST RESULTS

| | | | |
|----------------|--------------------|---------------------|-----------------|
| EUT : | ED-HMI2000 | Model Name. : | ED-HMI2020-101C |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Test Date : | 2023-12-20 |
| Test Mode : | Mode 1 | Phase : | L |
| Test Voltage : | DC12V From Adapter | | |



| Suspected List | | | | | | | | |
|----------------|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
| 1 | 0.1590 | 53.19 | 20.01 | 65.52 | 12.33 | 33.18 | PK | L |
| 2 | 0.3570 | 46.99 | 20.03 | 58.80 | 11.81 | 26.96 | PK | L |
| 3 | 0.8925 | 42.11 | 20.06 | 56.00 | 13.89 | 22.05 | PK | L |
| 4 | 1.4460 | 41.76 | 20.10 | 56.00 | 14.24 | 21.66 | PK | L |
| 5 | 2.9310 | 42.76 | 20.21 | 56.00 | 13.24 | 22.55 | PK | L |
| 6 | 6.3195 | 40.60 | 20.22 | 60.00 | 19.40 | 20.38 | PK | L |

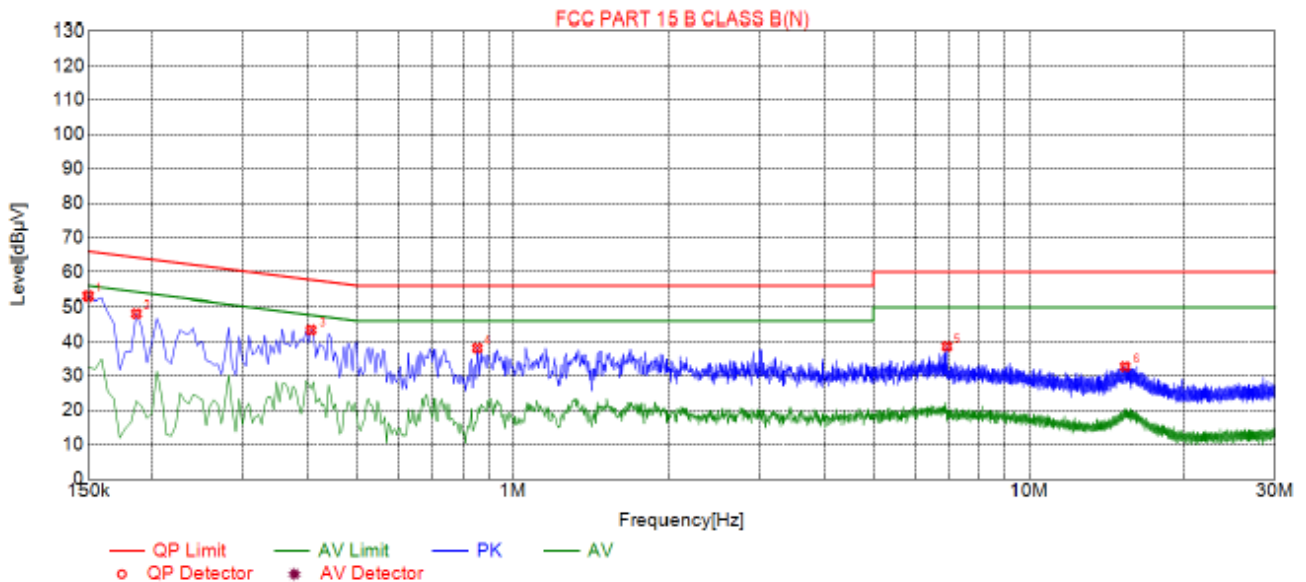
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



| | | | |
|----------------|--------------------|---------------------|-----------------|
| EUT : | ED-HMI2000 | Model Name. : | ED-HMI2020-101C |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Test Date : | 2023-12-20 |
| Test Mode : | Mode 1 | Phase : | N |
| Test Voltage : | DC12V From Adapter | | |



Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1 | 0.1500 | 53.08 | 20.03 | 66.00 | 12.92 | 33.05 | PK | N |
| 2 | 0.1860 | 48.16 | 20.05 | 64.21 | 16.05 | 28.11 | PK | N |
| 3 | 0.4065 | 43.40 | 20.03 | 57.72 | 14.32 | 23.37 | PK | N |
| 4 | 0.8520 | 38.13 | 20.06 | 56.00 | 17.87 | 18.07 | PK | N |
| 5 | 6.9315 | 38.62 | 20.20 | 60.00 | 21.38 | 18.42 | PK | N |
| 6 | 15.3960 | 32.73 | 19.96 | 60.00 | 27.27 | 12.77 | PK | N |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 3m) |
|-----------------|------------------|-----------------|
| | dBuV/m | dBuV/m |
| 30 ~ 88 | 39.0 | 40.0 |
| 88 ~ 216 | 43.5 | 43.5 |
| 216 ~ 960 | 46.5 | 46.0 |
| Above 960 | 49.5 | 54.0 |

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

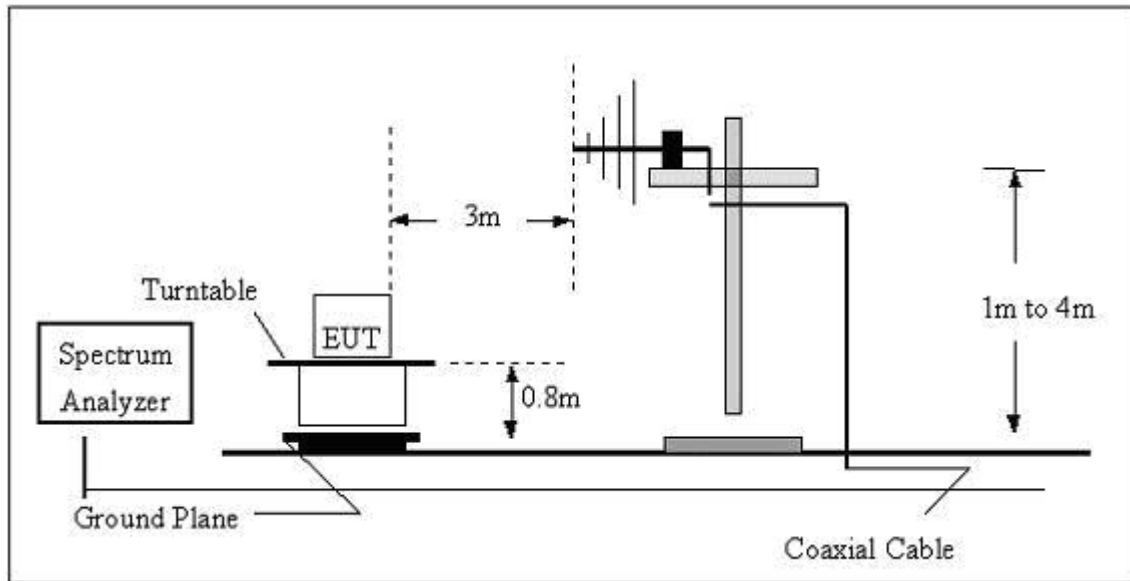
3.2.2 TEST PROCEDURE

- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

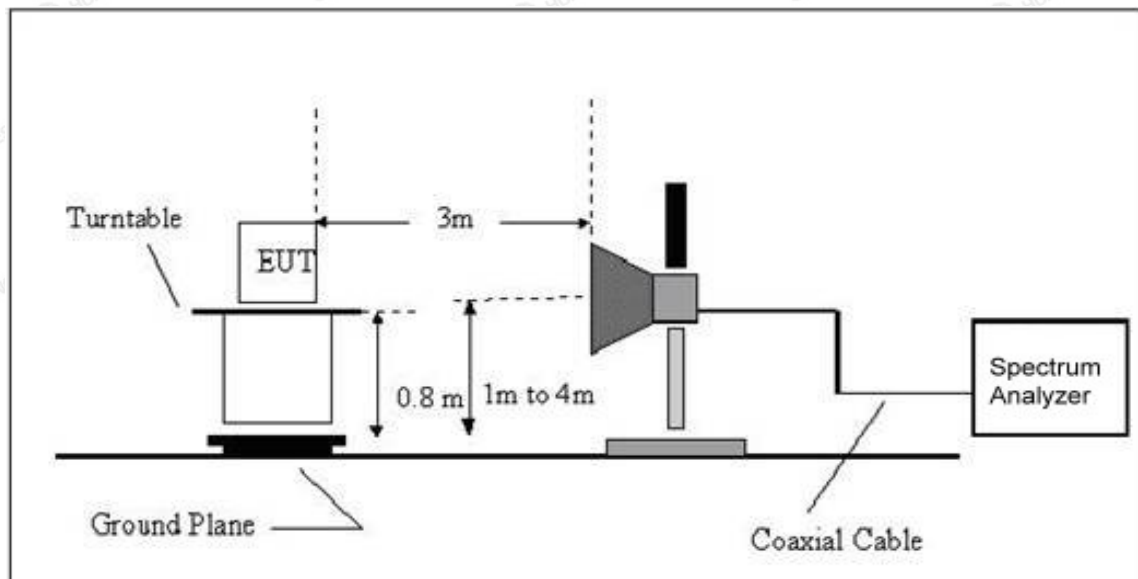


3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



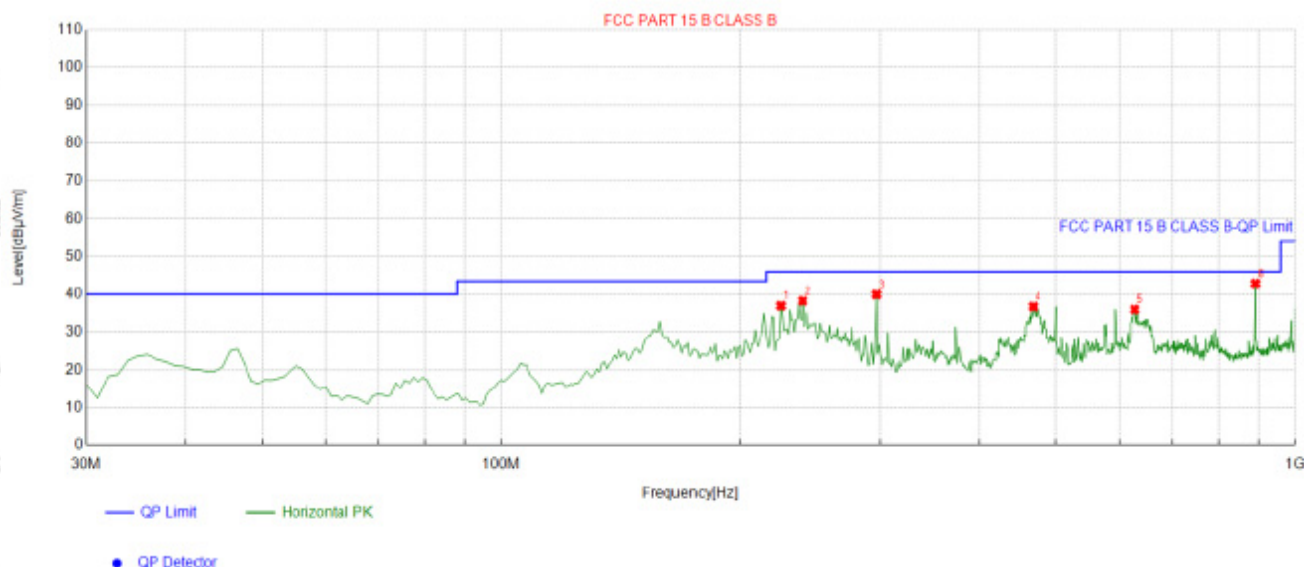
3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.5 TEST RESULTS

| | | | |
|---------------|--------------------|---------------------|-----------------|
| EUT : | ED-HMI2000 | Model Name : | ED-HMI2020-101C |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2023-12-20 |
| Test Mode : | Mode 1 | Polarization : | Horizontal |
| Test Power : | DC12V From Adapter | | |



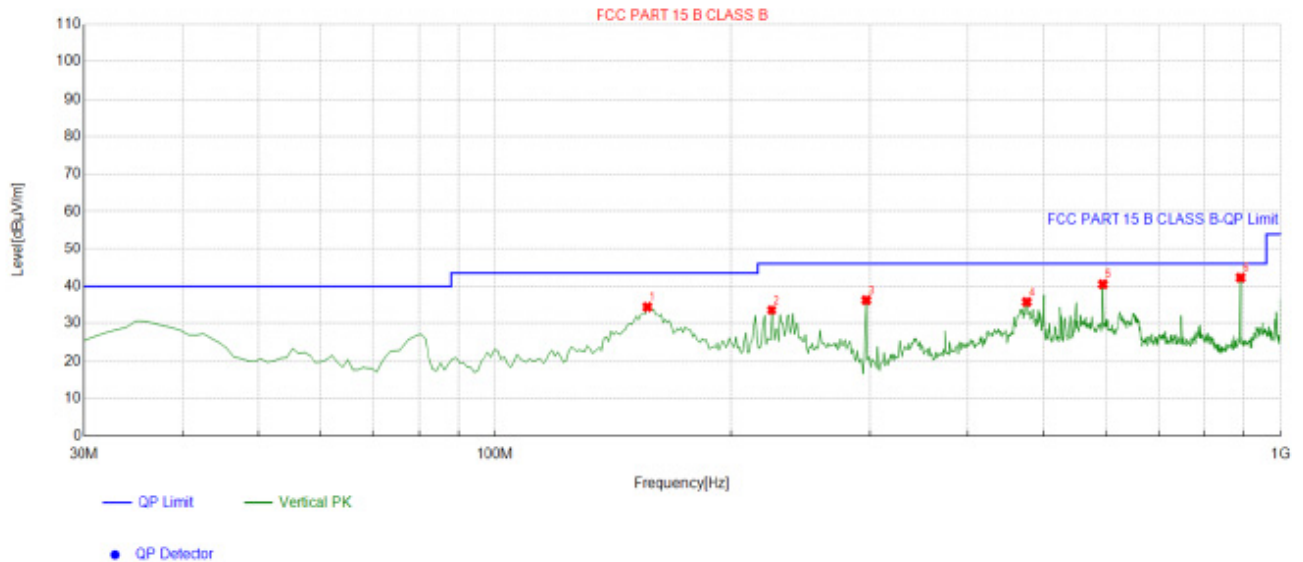
| Suspected List | | | | | | | | | |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 225.16516 | -14.01 | 50.96 | 36.95 | 46.00 | 9.05 | 100 | 13 | Horizontal |
| 2 | 239.72973 | -13.31 | 51.54 | 38.23 | 46.00 | 7.77 | 100 | 37 | Horizontal |
| 3 | 297.01701 | -12.04 | 51.96 | 39.92 | 46.00 | 6.08 | 100 | 82 | Horizontal |
| 4 | 467.90790 | -8.11 | 44.82 | 36.71 | 46.00 | 9.29 | 100 | 124 | Horizontal |
| 5 | 628.11811 | -4.36 | 40.33 | 35.97 | 46.00 | 10.03 | 100 | 159 | Horizontal |
| 6 | 891.25125 | -0.67 | 43.54 | 42.87 | 46.00 | 3.13 | 100 | 248 | Horizontal |

Final Data List

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;



| | | | |
|---------------|--------------------|---------------------|-----------------|
| EUT : | ED-HMI2000 | Model Name : | ED-HMI2020-101C |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2023-12-20 |
| Test Mode : | Mode 1 | Polarization : | Vertical |
| Test Power : | DC12V From Adapter | | |



Suspected List

| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|----------|
| 1 | 156.22622 | -18.26 | 52.83 | 34.57 | 43.50 | 8.93 | 100 | 212 | Vertical |
| 2 | 225.16516 | -14.01 | 47.70 | 33.69 | 46.00 | 12.31 | 100 | 80 | Vertical |
| 3 | 297.01701 | -12.04 | 48.41 | 36.37 | 46.00 | 9.63 | 100 | 62 | Vertical |
| 4 | 475.67567 | -7.90 | 43.81 | 35.91 | 46.00 | 10.09 | 100 | 153 | Vertical |
| 5 | 594.13413 | -5.30 | 45.86 | 40.56 | 46.00 | 5.44 | 100 | 306 | Vertical |
| 6 | 891.25125 | -0.67 | 42.97 | 42.30 | 46.00 | 3.70 | 100 | 215 | Vertical |

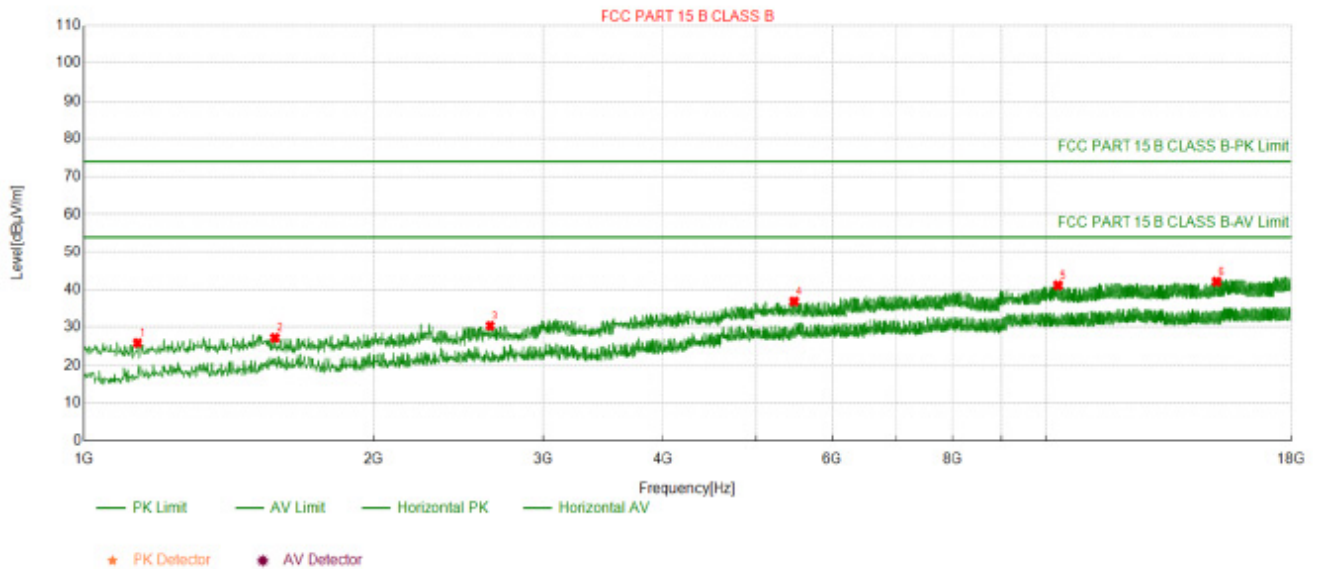
Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



3.2.6 TEST RESULTS(Above 1GHz)

| | | | |
|---------------|--------------------|---------------------|-----------------|
| EUT : | ED-HMI2000 | Model Name : | ED-HMI2020-101C |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2023-12-20 |
| Test Mode : | Mode 1 | Polarization : | Horizontal |
| Test Power : | DC12V From Adapter | | |



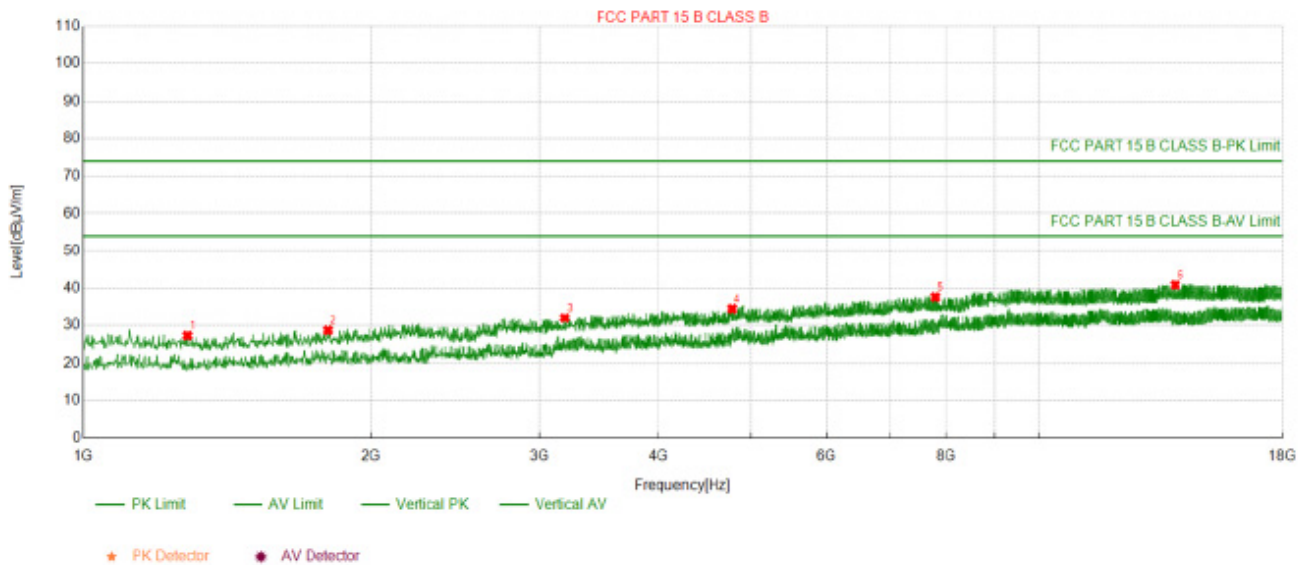
| Suspected List | | | | | | | | | |
|----------------|----------------|----------------|---------------------|-------------------|-------------------|----------------|----------------|--------------|------------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1136.0136 | -21.63 | 47.52 | 25.89 | 74.00 | 48.11 | 100 | 70 | Horizontal |
| 2 | 1579.7579 | -20.48 | 47.69 | 27.21 | 74.00 | 46.79 | 100 | 290 | Horizontal |
| 3 | 2644.0644 | -16.10 | 46.46 | 30.36 | 74.00 | 43.64 | 100 | 260 | Horizontal |
| 4 | 5479.9479 | -9.22 | 46.21 | 36.99 | 74.00 | 37.01 | 100 | 270 | Horizontal |
| 5 | 10296.529 | -0.36 | 41.56 | 41.20 | 74.00 | 32.80 | 100 | 230 | Horizontal |
| 6 | 15065.506 | 5.97 | 36.19 | 42.16 | 74.00 | 31.84 | 100 | 150 | Horizontal |

Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



| | | | |
|---------------|--------------------|---------------------|-----------------|
| EUT : | ED-HMI2000 | Model Name : | ED-HMI2020-101C |
| Temperature : | 24 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Date : | 2023-12-20 |
| Test Mode : | Mode 1 | Polarization : | Vertical |
| Test Power : | DC12V From Adapter | | |



| Suspected List | | | | | | | | | |
|----------------|----------------|----------------|---------------------|-------------------|-------------------|----------------|----------------|--------------|----------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1283.9283 | -21.07 | 48.38 | 27.31 | 74.00 | 46.69 | 100 | 20 | Vertical |
| 2 | 1804.1804 | -20.07 | 48.78 | 28.71 | 74.00 | 45.29 | 100 | 310 | Vertical |
| 3 | 3191.5191 | -14.91 | 46.99 | 32.08 | 74.00 | 41.92 | 100 | 180 | Vertical |
| 4 | 4781.1781 | -9.74 | 44.35 | 34.61 | 74.00 | 39.39 | 100 | 130 | Vertical |
| 5 | 7793.8793 | -3.69 | 41.39 | 37.70 | 74.00 | 36.30 | 100 | 80 | Vertical |
| 6 | 13905.990 | 5.52 | 35.38 | 40.90 | 74.00 | 33.10 | 100 | 150 | Vertical |

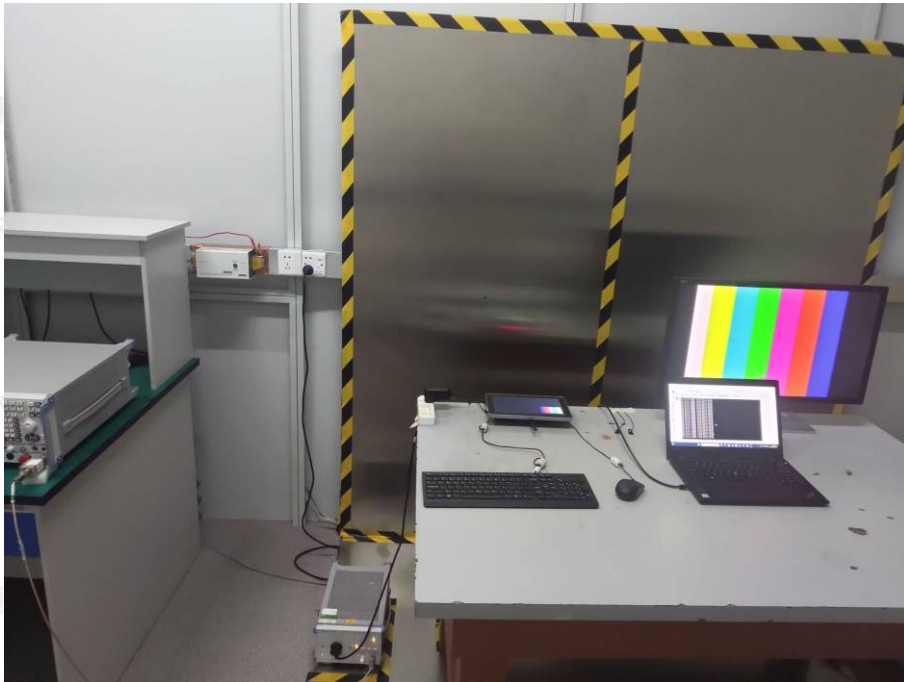
Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

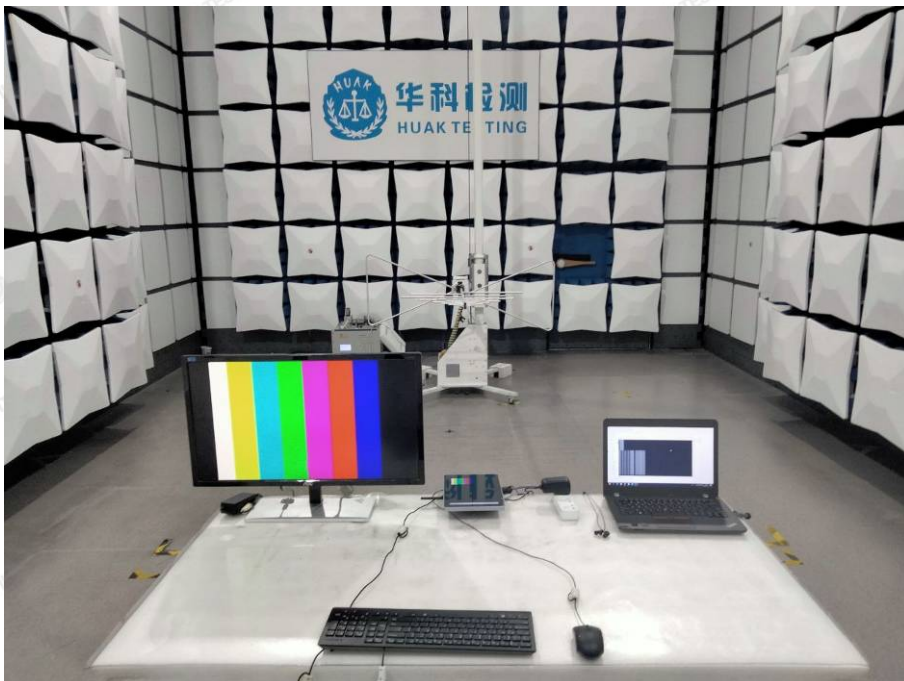


4. EUT TEST PHOTO

Conducted Emission



Radiated Emission





ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2

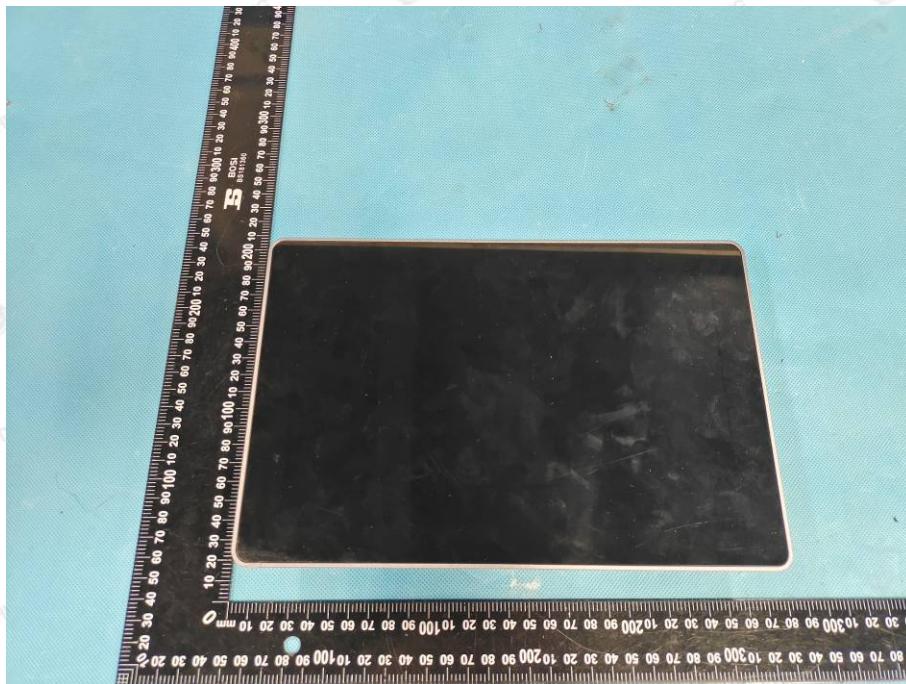




Photo 3



Photo 4

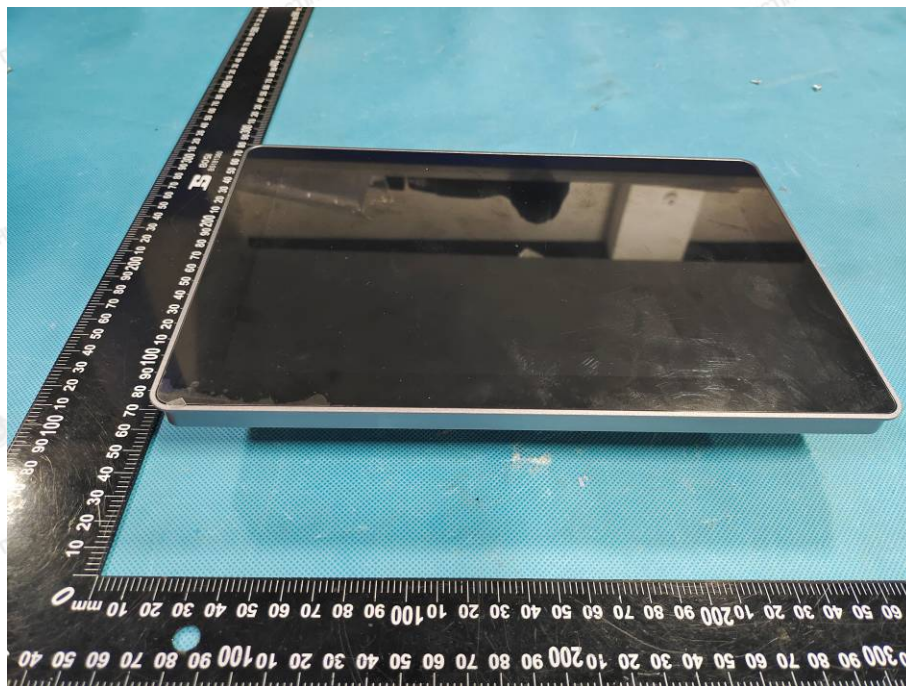




Photo 5

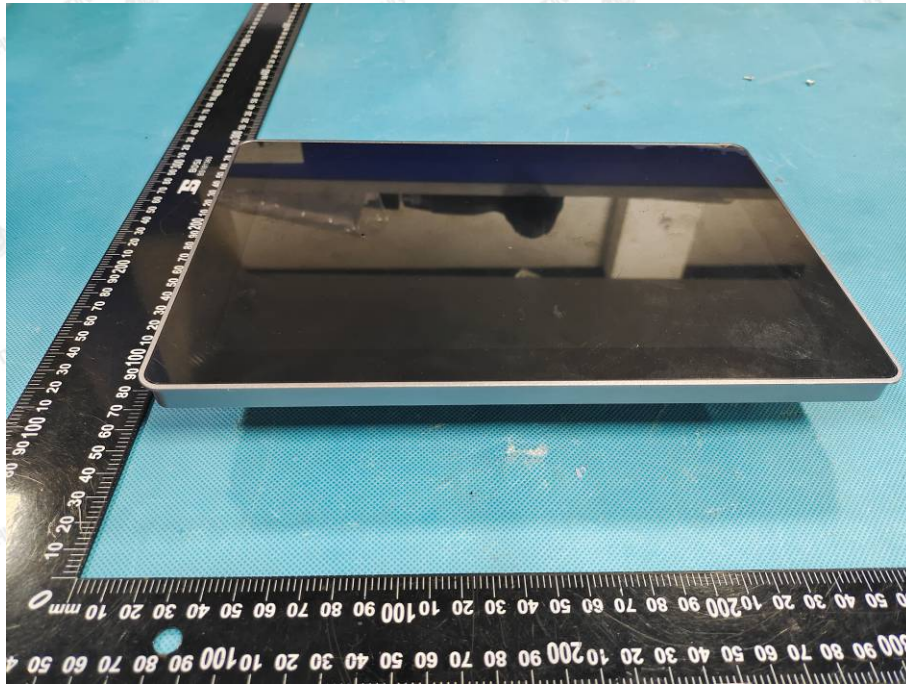


Photo 6

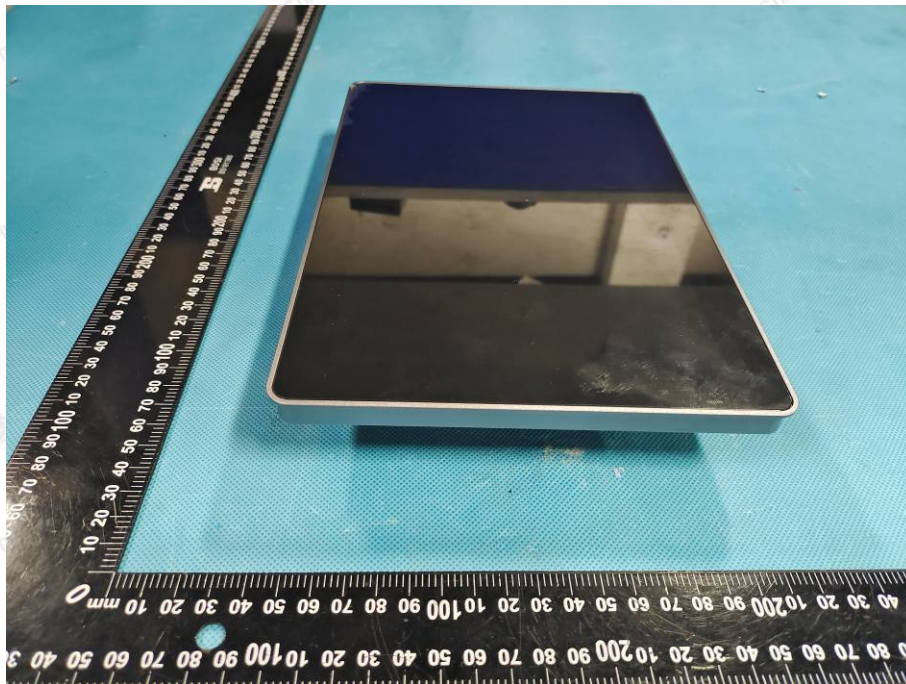




Photo 7

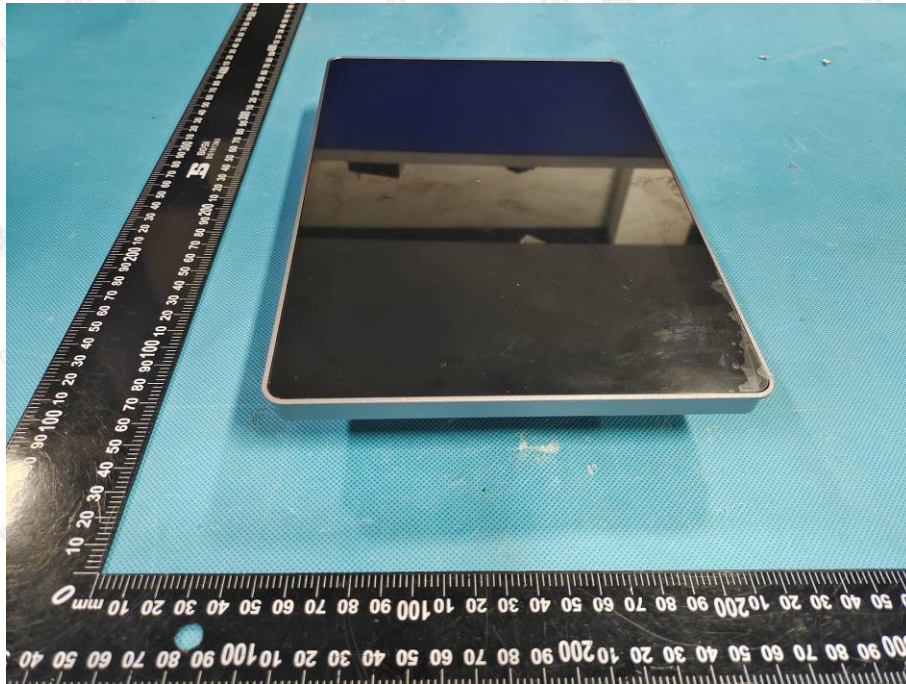


Photo 8





Photo 9

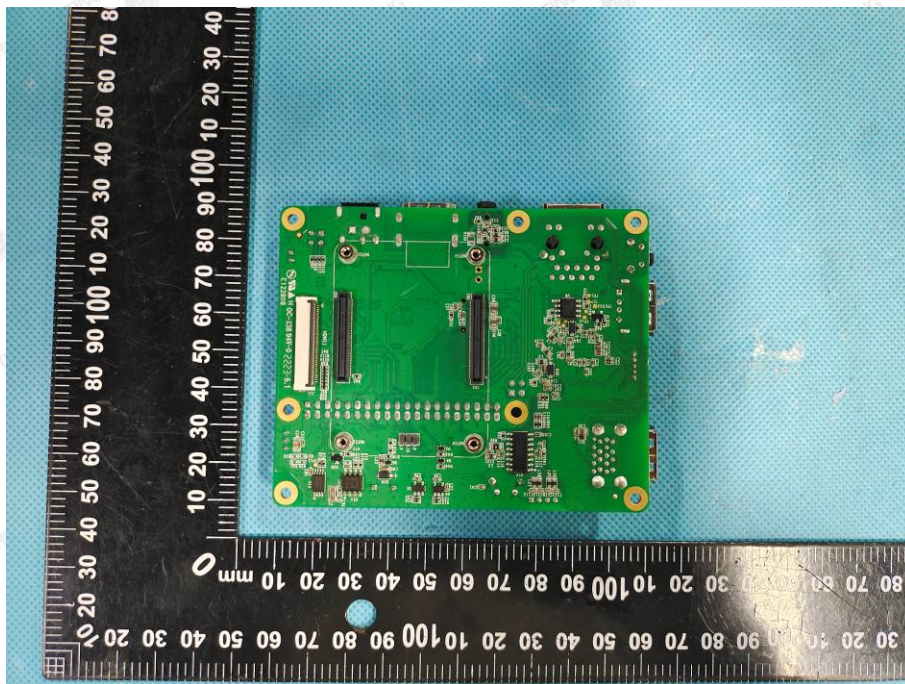


Photo 10

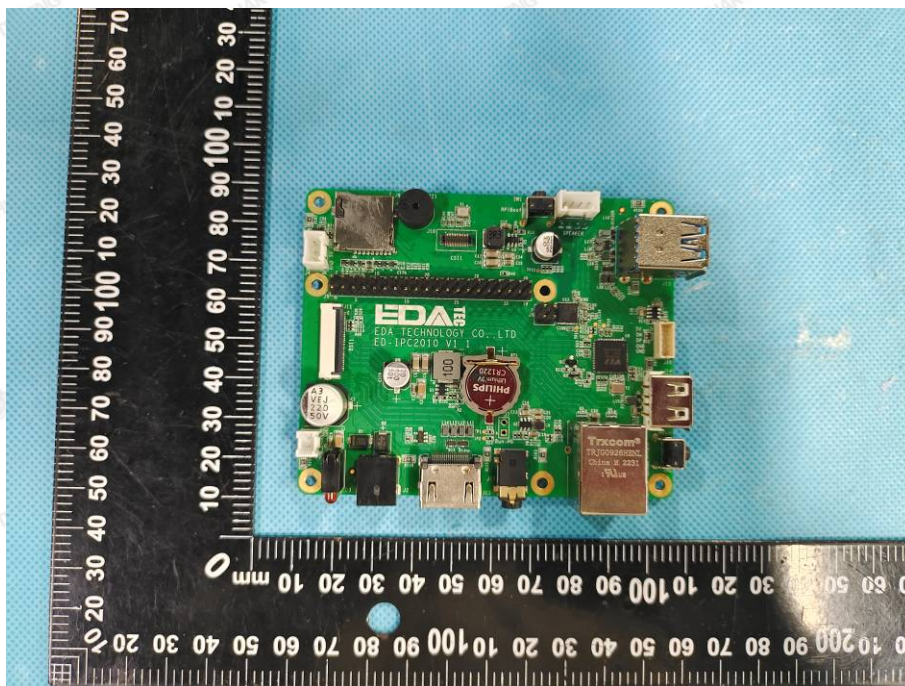




Photo 11

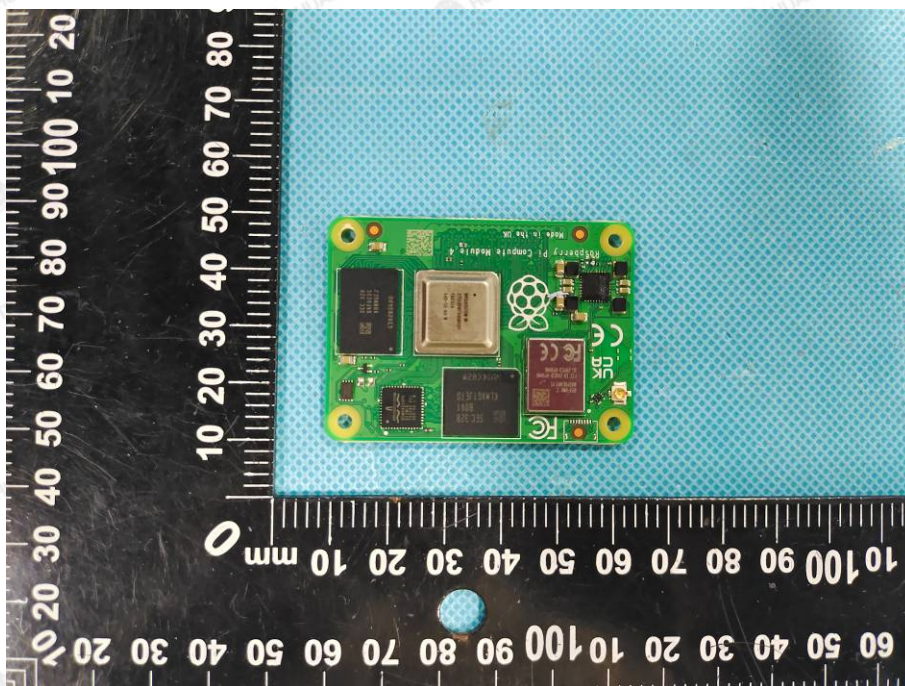
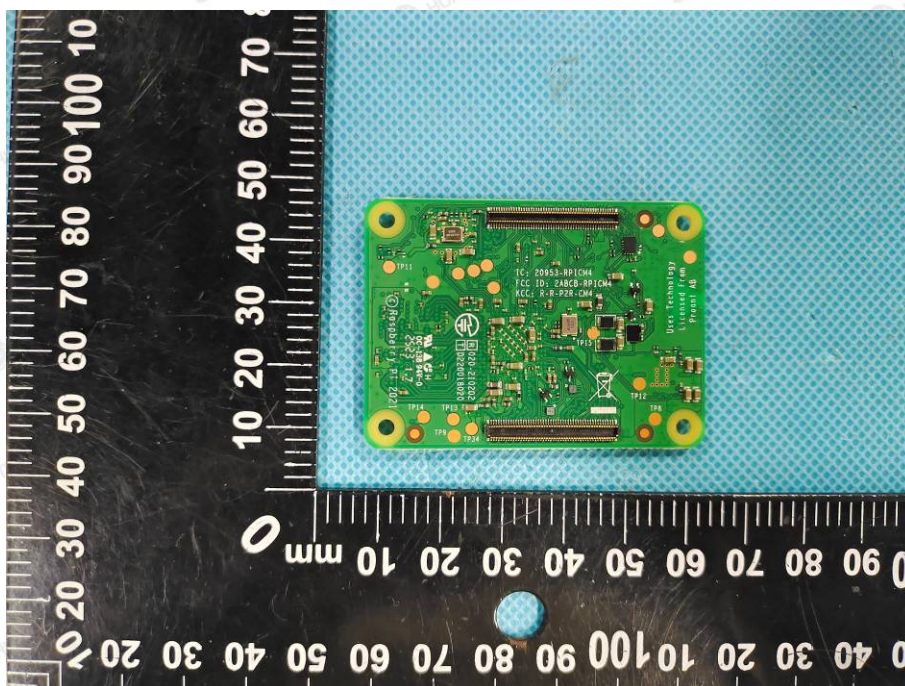


Photo 12



.....End of Report.....