

# FCC TEST REPORT

#### Prepared for:

EDA Technology Shanghai Co., Ltd.

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

Product Name: ED-HMI3010

Trade Mark: EDA

ED-HMI3010-101C, ED-HMI3010-050C,

Product Model (S): ED-HMI3010-070C, ED-HMI3010-050R,

ED-HMI3010-070R, ED-HMI3010-101R

Date of Test: Jan. 17, 2024 - Feb. 20, 2024

Date of Report: Feb. 20, 2024

Report Number: HK2401170357-1ER

#### Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

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## **TEST REPORT VERIFICATION**

Report No.: HK2401170357-1ER

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-HMI3010

(A) Product Model: ED-HMI3010-101C

(B) Corios Model ED-HMI3010-050C, ED-HMI3010-070C, ED-HMI3010-050R,

(B) Series Model : ED-HMI3010-070R, ED-HMI3010-101R

(C) Power Supply: DC5.1V From Adapter with AC100-240V, 50/60Hz

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

This device described above has been tested by HUAK, 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: Jan. 17, 2024 – Feb. 20, 2024

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Technical Director

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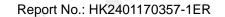




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HUAK TESTING





Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2024/02/20	Jason Zhou
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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission					
Standard	Test Item	Limit	Judgment	Remark	
FCC Part 15 Subpart B	Conducted Emission	Class B	PASS	9	
ANSI C63.4:2019	Radiated Emission	Class B	PASS	ESTING	

Report No.: HK2401170357-1ER

## 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.

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## 1.1 TEST FACILITY

Shenzhen HUAK Testing Technology Co., Ltd.

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

Report No.: HK2401170357-1ER

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  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

#### A. Conducted Measurement:

Measurement Frequency Range	Uncertainty	NOTE
150 KHz ~ 30MHz	±2.71dB	HUAK.

#### B. Radiated Measurement:

Measurement Frequency Range	Uncertainty	NOTE
30MHz ~ 1000MHz	±3.90dB	V TESTING
1GHz ~6GHz	±4.28dB	MON.



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## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

2.G1 \**	(G) (G)
Product Name	ED-HMI3010
Product Model	ED-HMI3010-101C
Series Model	ED-HMI3010-050C, ED-HMI3010-070C, ED-HMI3010-050R, ED-HMI3010-070R, ED-HMI3010-101R
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-HMI3010-101C.
Product Description	The EUT is a ED-HMI3010.  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	DC5.1V From Adapter with AC100-240V, 50/60Hz

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## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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				

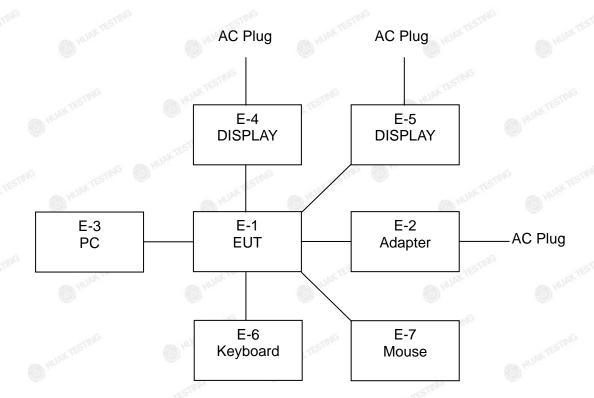
For Radiated Test					
Final Test Mode	Description				
Mode 1	Working				

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## 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.

Report No.: HK2401170357-1ER

200	262	200	200	200	2500
Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note
<sup>ME</sup> -1	ED-HMI3010	EDA	ED-HMI3010-101C	N/A	EUT
E-2	Adapter	N/A	27W USB-C Power Supply US	N/A	
E-3	PC	Lenovo	ThinkpadE450	N/A	NG A
E-4	DISPLAY	DELL	SE2417HGc	N/A	MAKTESTIL
E-5	DISPLAY	PHILIPS	279E1	N/A	
E-6	Keyboard	N/A	N/A	N/A	
E-7	Mouse	N/A	N/A	N/A	TESTING
	O HUAR	HUAR	HUAN	Par.	HUAR

Item	Shielded Type	Ferrite Core	Length	Note	
	MAX TESTIN	HAY ESTE ME		WAK TEST	
	(a)	e O	-mG	0	
	HUAKTES		HUAKTES .		
N. TEST	AN TESTING	V. TESTING	JAY TESTING	OK TESTING	
SO.	0	0 m	0	HO.	
STING	STING	STING	STING	STING	
110	HUAKTE	HUAKTE	HUAKIT	AKTE HUAKTE	

#### 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 <code>"Length\_"</code> 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. Interva
K TESTINI 1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	Receiver	R&S	ESR-7	HKE-010	Feb. 20, 2024	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 20, 2024	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 20, 2024	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 20, 2024	2 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 20, 2024	2 Year
11.	Pre-amplifier	Schwarzbeck	EMC05184 5SE	HKE-015	Feb. 20, 2024	<sup>6</sup> 1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 20, 2024	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Feb. 20, 2024	1 Year
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 20, 2024	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 20, 2024	1 Year

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## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A	(dBuV)	Class B (dBuV)			
FREQUENCY (MHz)	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

3 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

AFICATION.

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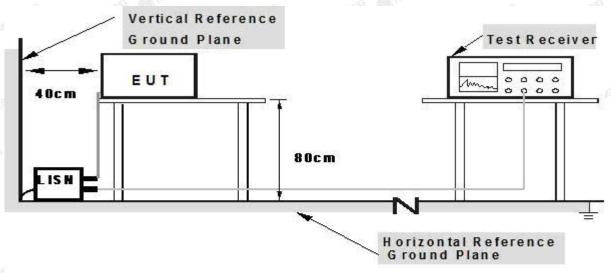
#### 3.1.2 TEST PROCEDURE

a. 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.

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- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. 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 LISM.

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

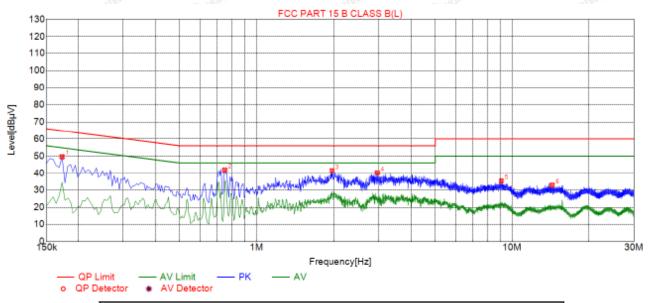
#### 3.1.4 EUT OPERATING CONDITIONS

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-HMI3010	Model Name. :	ED-HMI3010-101C
Temperature:	<b>24</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2024-02-20
Test Mode:	Mode 1	Phase :	HUAK TE
Test Voltage :	DC5.1V From Adapter	9	



Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре						
1	0.1725	49.61	20.04	64.91	15.30	29.57	PK	L						
2	0.7485	41.89	20.06	56.00	14.11		PK	L						
3	1.9725	41.52	20.14	56.00	14.48		PK	L						
4	2.9625	40.27	20.21	56.00	15.73	20.06	PK	L						
5	9.0690	35.37	20.11	60.00	24.63	15.26	PK	L						
6	14.3205	32.91	19.95	60.00	27.09	12.96	PK	L						

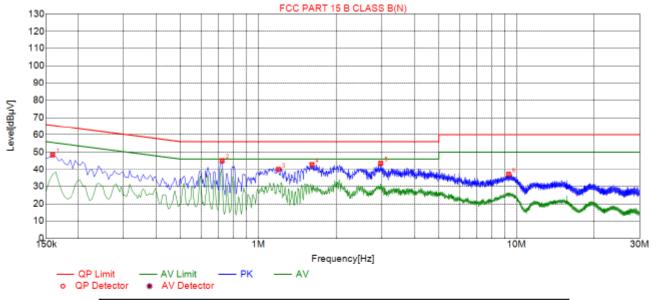
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



EUT:	ED-HMI3010	Model Name. :	ED-HMI3010-101C
Temperature:	24 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Test Date :	2024-02-20
Test Mode:	Mode 1	Phase :	N
Test Voltage :	DC5.1V From Adapter	V TESTING	"TESTING"



Sus	Suspected List												
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type					
1	0.1590	48.37	20.01	65.62	17.25	28.36	PK	N					
2	0.7215	45.03	20.06	56.00	10.97	24.97 20.00	PK	N					
3	1.1940	0 40.09 2	20.09	56.00	15.91		PK	N					
4	1.6080	42.83	20.11	56.00	13.17	22.72	PK	N					
5	2.9715	43.61	20.22	56.00	12.39	23.39	PK	N					
6	9.3255	37.03	20.10	60.00	22.97	16.93	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

EDECLIENCY (MLI-)	Class A (at 10m)	Class B (at 3m)		
FREQUENCY (MHz)	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).

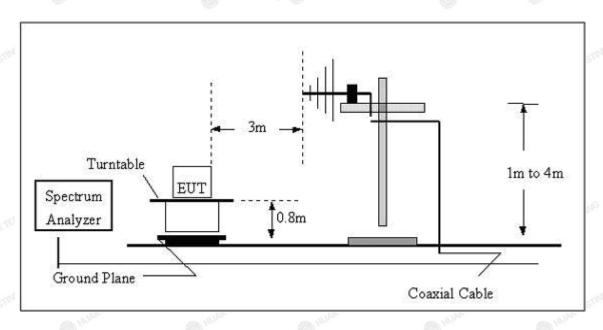
#### 3.2.2 TEST PROCEDURE

- 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.

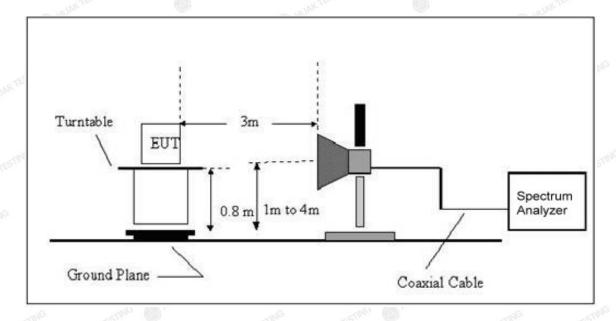


#### 3.2.3 TEST SETUP

#### (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.

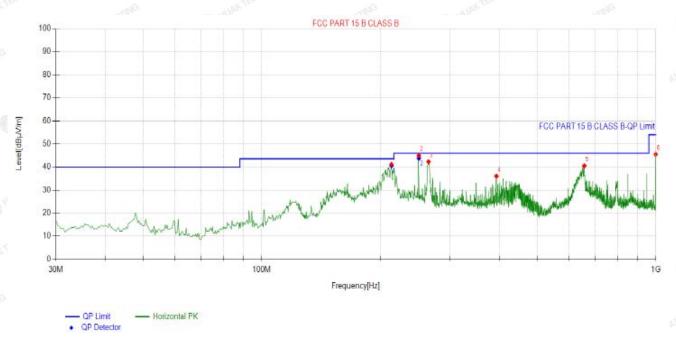
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#### 3.2.5 TEST RESULTS

EUT:	ED-HMI3010	Model Name :	ED-HMI3010-101C
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2024-02-20
Test Mode :	Mode 1	Polarization:	Horizontal
Test Power :	DC5.1V From Adapter	9	9

Report No.: HK2401170357-1ER



	Suspe	uspected List									
	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
ſ	1	213.06768	-19.77	60.85	41.08	43.50	2.42	100	94	Horizontal	
	2	249.93998	-18.53	63.48	44.95	46.00	1.05	100	223	Horizontal	
	3	264.49483	-18.11	60.39	42.28	46.00	3.72	100	218	Horizontal	
	4	393.54784	-15.70	51.70	36.00	46.00	10.00	100	186	Horizontal	
	5	658.12270	-11.15	51.64	40.49	46.00	5.51	100	55	Horizontal	
ſ	6	999.02967	-7.46	52.99	45.53	54.00	8.47	100	77	Horizontal	

Final I	Final Data List												
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBμV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	213.06768	-19.77	60.32	40.55	43.50	2.95	100	94	Horizontal				
2	249.9979	-18.53	62.33	43.80	46.00	2.20	100	223	Horizontal				

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

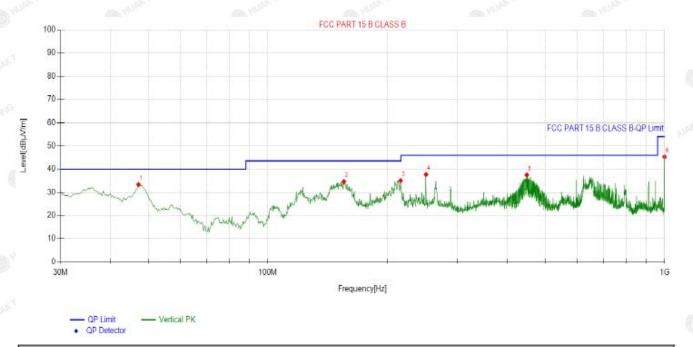
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EUT:	ED-HMI3010	Model Name :	ED-HMI3010-101C
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2024-02-20
Test Mode :	Mode 1	Polarization:	Vertical
Test Power :	DC5.1V From Adapter		

Report No.: HK2401170357-1ER



3	Suspe	Suspected List												
1090F	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
	1	47.142381	-16.78	50.12	33.34	40.00	6.66	100	51	Vertical				
	2	155.49516	-16.12	50.74	34.62	43.50	8.88	100	125	Vertical				
	3	215.65521	-19.71	54.74	35.03	43.50	8.47	100	106	Vertical				
K	4	249.93998	-18.53	56.24	37.71	46.00	8.29	100	291	Vertical				
	5	448.85628	-14.47	51.94	37.47	46.00	8.53	100	279	Vertical				
3	6	999.02967	-7.46	52.79	45.33	54.00	8.67	100	349	Vertical				

#### Final Data List

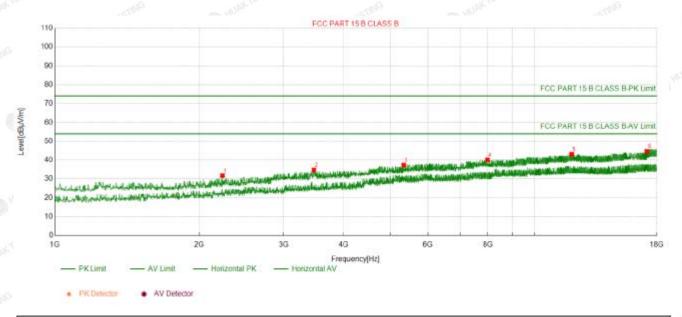
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;



3.2.6 TEST RESULTS(Above 1GHz)

(1000)	ANCORA TO STATE OF THE STATE OF	i.	CONTRACT CON
EUT:	ED-HMI3010	Model Name :	ED-HMI3010-101C
Temperature:	<b>24</b> ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2024-02-20
Test Mode :	Mode 1	Polarization:	Horizontal
Test Power :	DC5.1V From Adapter	9	9

Report No.: HK2401170357-1ER



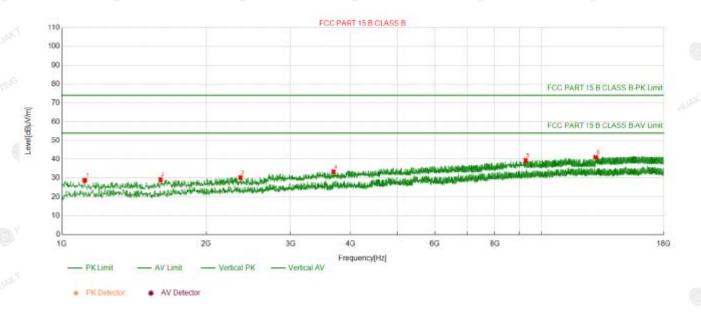
Sus	Suspected List								
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	2237.7237	-17.71	49.46	31.75	74.00	42.25	100	190	Horizontal
2	3470.3470	-14.27	49.10	34.83	74.00	39.17	100	210	Horizontal
3	5337.1337	-9.29	46.61	37.32	74.00	36.68	100	10	Horizontal
4	7984.2984	-2.76	42.86	40.10	74.00	33.90	100	20	Horizontal
5	11962.696	1.40	41.78	43.18	74.00	30.82	100	320	Horizontal
6	17173.717	8.28	36.37	44.65	74.00	29.35	100	220	Horizontal

Final Data List

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



	ALC AND TO A STATE OF THE ACT OF	AUG ANNA	
EUT:	ED-HMI3010	Model Name :	ED-HMI3010-101C
Temperature:	<b>24</b> ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2024-02-20
Test Mode :	Mode 1	Polarization:	Vertical
Test Power :	DC5.1V From Adapter	TESTING	TESTING



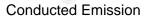
Suspected List									
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	1117.3117	-21.66	50.51	28.85	74.00	45.15	100	300	Vertical
2	1606.9606	-20.47	49.63	29.16	74.00	44.84	100	340	Vertical
3	2358.4358	-17.09	47.34	30.25	74.00	43.75	100	200	Vertical
4	3687.9687	-13.13	46.62	33.49	74.00	40.51	100	310	Vertical
5	9271.3271	-1.93	41.27	39.34	74.00	34.66	100	0	Vertical
6	12982.798	1.94	39.20	41.14	74.00	32.86	100	0	Vertical

Final Data List

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



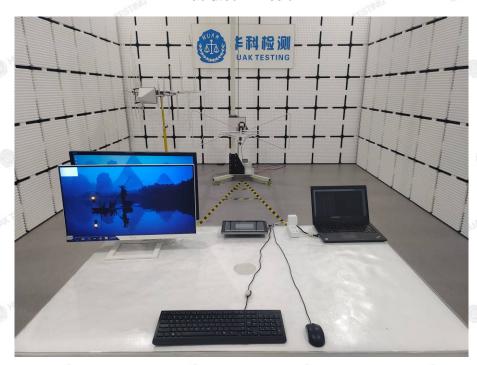
## 4. EUT TEST PHOTO



Report No.: HK2401170357-1ER



**Radiated Emission** 



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## ATTACHMENT PHOTOGRAPHS OF EUT Photo 1

Report No.: HK2401170357-1ER



Photo 2



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Photo 4



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## Photo 5

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Photo 6









Photo 8



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Photo 10



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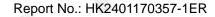






Photo 12



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

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