

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

### **TEST REPORT**

### FCC 47 CFR Part 15 Subpart B

Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement ANSI C63.4: 2014

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of

9 kHz to 40 GHz

Report Reference No...... GTS20240426022-1-12A

Date of issue...... Jul.28, 2024

Testing Laboratory Name...... Shenzhen Global Test Service Co.,Ltd.

Address .....: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden,

No.98, Pingxin North Road, Shangmugu Community, Pinghu Street,

Longgang District, Shenzhen, Guangdong

Reviewed by

(Testing Engineer)..... Peter Xiao

Supervised by

( position+printed name+signature) .: Test Engineer Evan Ouyang

Approved by

(Manager)..... Jason Hu

Applicant's name...... Shenzhen Techtion Smart Electronics July

Room 902, 8th Floor, Unit 1, Building No. 2, Xintianxia Chengyun

Address ...... Factory District, Vanke City Community, Bantian Street, Longgang

District, Shenzhen, China

Manufacturer's name ...... Shenzhen Techtion Smart Electronics Co.,Ltd

Room 902, 8th Floor, Unit 1, Building No. 2, Xintianxia Chengyun

Address ...... Factory District, Vanke City Community, Bantian Street, Longgang

District, Shenzhen, China

Test specification:

ANSI C63.4: 2014

Receiver Date...... May. 10, 2024

Test Period ...... May. 10, 2024 - Jun. 17, 2024

Test item description ...... Industrial Monitor

Trade Mark .....: N/A

Model/Type reference ...... TS-121MCBJ

Listed Models ...... Please refer to page two

Ratings ...... DC 12.0V/4.0A by Adapter

Result ..... PASS

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### TEST REPORT

Test Deport No	GTS20240426022-1-12A	Jul.28, 2024
Test Report No. :	G1320240426022-1-12A	Date of issue

Equipment under Test : Industrial Monitor

Model /Type : TS-121MCBJ

Listed model TS--070MXXX, TS--080MXXX, TS--101MXXX, TS-104MXXX,

TS--116MXXX, TS--120MXXX, TS--121MXXX, TS--133MXXX, TS--150MXXX, TS--156MXXX, TS--170MXXX, TS--173MXXX, TS--185MXXX, TS--190MXXX, TS--195MXXX, TS--215MXXX, TS-238MXXX, TS-270MXXX, TS-320MXXX, TS-XXXMXXX

(X=0-9, X=A-Z)

Applicant : Shenzhen Techtion Smart Electronics Co.,Ltd

Room 902, 8th Floor, Unit 1, Building No. 2, Xintianxia Chengyun

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Address : Factory District, Vanke City Community, Bantian Street, Longgang

District, Shenzhen, China

Test Result	Pass
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The above equipment has been tested by Shenzhen Global Test Service Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

# **Contents**

1.	TEST SUMMARY	
2.	EUT INFORMATION	
	2.1. I/O Port Description	
	EUT operation mode  2.3. EUT configuration	
3.	TEST ENVIRONMENT	7
	3.1. Address of the test laboratory 3.2. Test Facility 3.3. Test Software 3.4. Statement of the measurement uncertainty 3.5. Test Site Environmental 3.6. Test Instruments	7 7 7
4.	TEST CONDITIONS AND RESULTS	
	4.1. Conducted Emission. 4.1.1. Limits. 4.1.2 Test Configuration. 4.1.3 Test Procedure. 4.1.4 Test Results. 4.2. Radiated Emission. 4.2.1 Limit. 4.2.2 Test Configuration. 4.2.3 Test Procedure. 4.2.4 Test Results.	
5.	TEST SETUP PHOTOS OF THE EUT	20
6.	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	22
	6.1. External photos of the EUT	

Report No.: GTS20240426022-1-12A Page 4 of 27

# 1. TEST SUMMARY

Emission							
Standard	Item	Verdict	Remark				
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Conducted Emission	PASS	Meet Class B limit				
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Radiated Emission	PASS	Meet Class B limit				

The test results of this report was related only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

Report No.: GTS20240426022-1-12A Page 5 of 27

# 2. **EUT INFORMATION**

# 2.1.I/O Port Description

I/O Port Types	Q'TY	Test Description
1). DC IN Port	1	Connect to Adapter
2). USB Port	1	Connect to USB flash disk
3). HDMI Port	1	Connect to PC
4). VGA Port	1	Connect to PC
5). DVI Port	1	Connect to PC
6). Earphone Port	1	Connect to Earphone

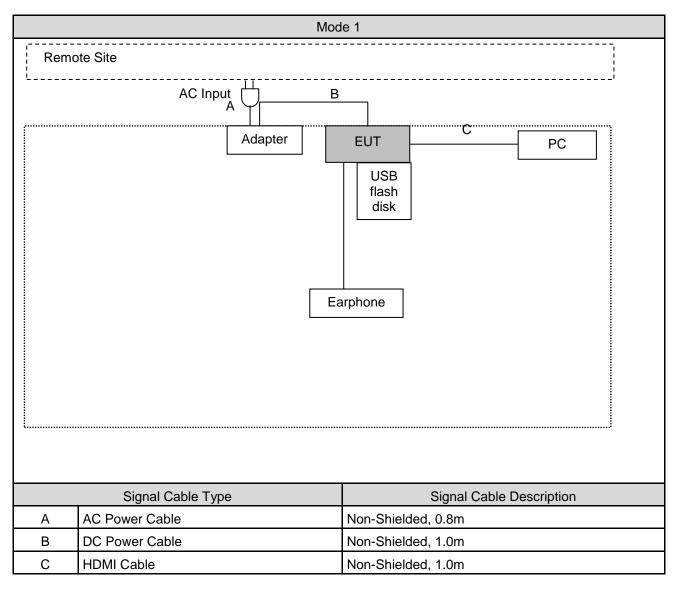
# 2.2. EUT operation mode

	Mode 1: Wo Mode 2: Idl	orking Mode e Mode	
	Conducted	Emission	Mode 1
Final Test Mode	Radiates	Below 1GHz	Mode 1
		Above 1GHz	Mode 1

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

# 2.3. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:



	Devices Description							
	Product Manufacturer Model Number Serial Number Power Cord							
(1)	Adapter	Zhongshan MLS Electrical Appliance Co., Ltd.	M120300-A078	N/A	Non-Shielded, 1.0m			
(2)	PC	LENOVO	DESKYOP-EUIVCNR	N/A	Non-Shielded, 1.0m			
(3)	USB flash disk	aigo	U330	N/A	N/A			

Report No.: GTS20240426022-1-12A Page 7 of 27

### 3. TEST ENVIRONMENT

### 3.1. Address of the test laboratory

#### Shenzhen Global Test Service Co., Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

#### 3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

#### 3.3. Test Software

Meas	Measurement Software						
No.	No. Description Software Version						
1	Conducted Emission	JS32-CE	V2.5.0.9				
2	Radiated Emission _ Below 1GHz	JS32-RE	V2.5.0.9				
3	Radiated Emission _ Above 1GHz	JS32-RE	V2.5.0.9				

### 3.4. Statement of the measurement uncertainty

Test Item	Test Site	Frequency Range		Uncertainty (dB)
Conducted Emission	Conductive Shielding	9 kHz ~ 150 kHz		2.7
AC Power Port	Room	150 kHz ~ 30 MHz		2.7
Radiated Emission	966	30 MHz ~	Horizontal	5.6
		1000 MHz	Vertical	6.0
		1000 MHz ~ 40000 MHz		5.2

Note: The Vertical and Horizontal measurement uncertainty of 1GHz to 6GHz is evaluated and choose which polarity is worst value.

# Report No.: GTS20240426022-1-12A

# 3.5. Test Site Environmental

Test Item	Required (IEC 6	Actual	
	Temperature (°C)	15-35	24
Conducted Emission	Humidity (%RH)	25-75	56
	Barometric pressure (mbar)	860-1060	950
	Temperature (°C)	15-35	23
Radiated Emission	Humidity (%RH)	25-75	57
	Barometric pressure (mbar)	860-1060	950

## 3.6. Test Instruments

Conducted Emission test site						
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period	
Test Receiver	R&S	ESPI	101841	2023/07/14	1 year	
Transient Limiter	CYBERTEK	EM5010A	E1950100106	2023/07/13	1 year	
LISN	R&S	ESH2-Z5	893606/008	2023/07/13	1 year	
LISN	CYBERTEK	EM5040A	E1850400105	2023/07/13	1 year	
ISN	SCHWARZBECK	CAT 3	066	2023/08/29	1 year	
ISN	SCHWARZBECK	CAT 5	121	2023/08/29	1 year	
ISN	SCHWARZBECK	NTFM	102	2023/08/29	1 year	
Test Site	XINJU	Conductive Shielding Room	N/A	N.C.R.		

966 Chamber						
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period	
Amplifier	SCHWARZBECK MESS-ELEKTRONIK	BBV 9743	202	2023/07/13	1 year	
Amplifier	EMCI	EMC051845SE	980355	2023/07/13	1 year	
Amplifier	ETS	3116C-PA	/	2023/07/13		
Test Receiver	R&S	ESCI 7	101102	2023/07/13	1 year	
Spectrum Analyzer	R&S	FSV40-N	101800	2023/07/14	1 year	
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9163	00976	2023/07/13	1 year	
Double Ridged Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	01622	2023/07/13	1 year	
Horn Antenna (18GHz~40GHz)	ETS	3116C	00086467	2023/07/13	1 year	
Test Site	XINJU	966	N/A	2023/09/08	3 year	

# 4. TEST CONDITIONS AND RESULTS

### 4.1. Conducted Emission

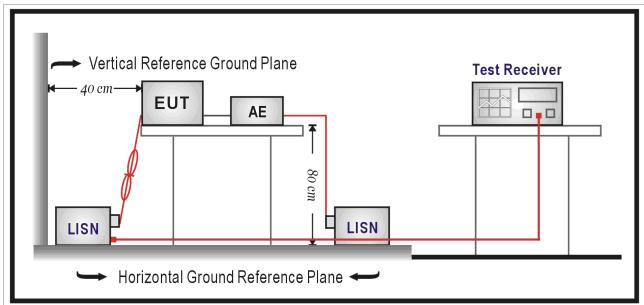
### 4.1.1. Limits

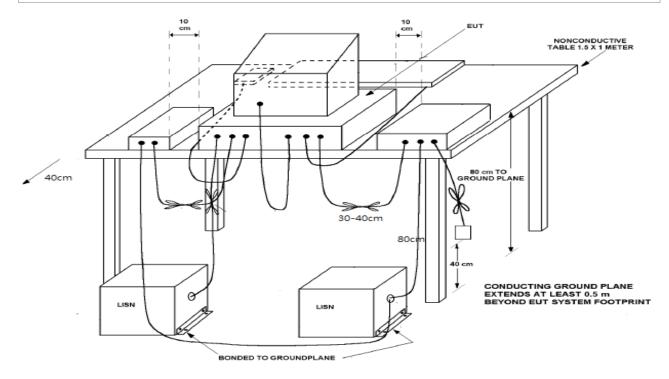
Frequency	Class A	(dBuV)	Class B (dBuV)		
(MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

Note: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

## 4.1.2 Test Configuration





#### 4.1.3 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50  $\Omega$ // 50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50  $\Omega$ // 50 uH coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0,8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the center of the lead to form a bundle no longer than 0.4 m. All of 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 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50  $\Omega$  ports of the LISN shall be resistively terminated into 50  $\Omega$  loads when not connected to the measuring instrument.

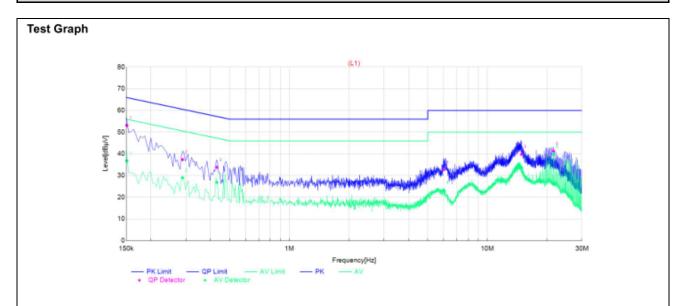
If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

### 4.1.4 Test Results

Test Standard: FCC Part 15B Power Line: L

Test Mode: Mode 1 Test Power: AC 120 V/60 Hz

Description:



Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1510	42.82	26.45	10.35	53.17	36.80	65.95	55.95	12.78	19.15	L1	PASS
2	0.2885	27.28	18.90	10.10	37.38	29.00	60.57	50.57	23.19	21.57	L1	PASS
3	0.4300	23.60	16.68	10.20	33.80	26.88	57.25	47.25	23.45	20.37	L1	PASS
4	6.0143	22.36	12.87	10.49	32.85	23.36	60.00	50.00	27.15	26.64	L1	PASS
5	14.8692	28.78	22.71	11.03	39.81	33.74	60.00	50.00	20.19	16.26	L1	PASS
6	21.5301	29.68	28.28	11.55	41.23	39.83	60.00	50.00	18.77	10.17	L1	PASS

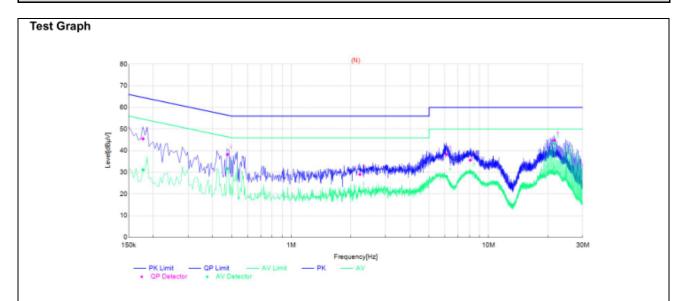
Note:1. Result (dB $\mu$ V) = Reading (dB $\mu$ V) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Test Standard: FCC Part 15B Power Line: N

Test Mode: Mode 1 Test Power: AC 120 V/60 Hz

Description:



Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1773	35.28	21.00	10.22	45.50	31.22	64.61	54.61	19.11	23.39	N	PASS
2	0.4753	28.03	21.46	10.24	38.27	31.70	56.42	46.42	18.15	14.72	N	PASS
3	2.2282	18.79	11.05	10.28	29.07	21.33	56.00	46.00	26.93	24.67	N	PASS
4	6.1227	27.77	17.60	10.49	38.26	28.09	60.00	50.00	21.74	21.91	N	PASS
5	8.0802	25.07	19.62	10.58	35.65	30.20	60.00	50.00	24.35	19.80	N	PASS
6	21.5299	33.23	31.81	11.47	44.70	43.28	60.00	50.00	15.30	6.72	N	PASS

Note:1. Result (dB $\mu$ V) = Reading (dB $\mu$ V) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Report No.: GTS20240426022-1-12A

#### 4.2. Radiated Emission

#### 4.2.1 Limit

### ■ Below 1 GHz test shall not exceed following value

FCC 47 CFR PART 15 SUBPART B								
Frequency range	Clas	ss A		Class B				
(MHz)	Distance (m)	dBuV/m	Distance (m)	dBuV/m				
30 to 88	10	39	3	41				
88 to 216	10	44.5	3	44.2				
216 to 960	10	45.3	3	45				
Above 960	10	48.7	3	51				

### ■ Above 1 GHz test shall not exceed following value

_	dBuV/m (Distance 3m)						
Frequency (MHz)	Class A Class			s B			
(**************************************	Average	Peak	Average	Peak			
1000 ~ 40000	60	80	54	74			

Remark:

- 1. The tighter limit shall apply at the edge between two frequency bands.
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)
- 4. Peak detector limit is corresponding to 20 dB above the maximum permitted average limit.

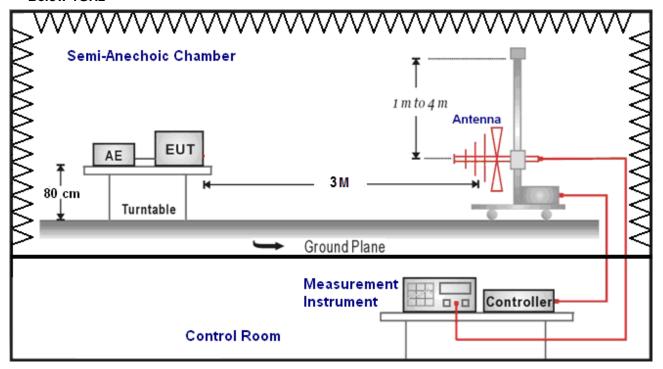
According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or in which the device operated or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

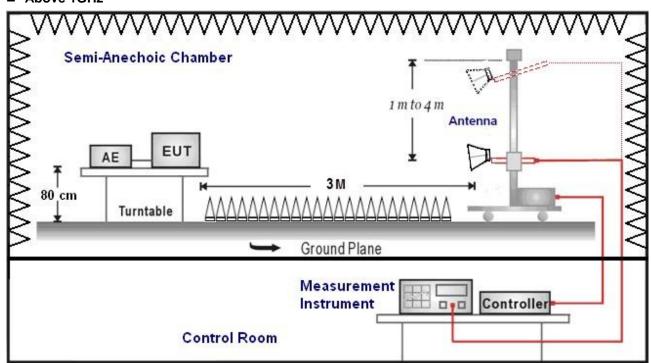
Report No.: GTS20240426022-1-12A Page 14 of 27

## 4.2.2 Test Configuration

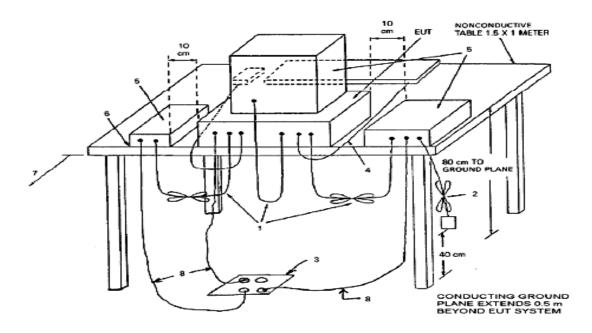
### ■ Below 1GHz



#### ■ Above 1GHz



Test arrangement for radiated emissions of tabletop equipment.



#### 4.2.3 Test Procedure

#### ■ Below 1 GHz

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. When the EUT is floor- standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.

The turn table is 0.8 m height and 2.0 m wide x 1.0 m deep size. It can rotate 360 degrees to determine the position of the maximum emission level. The spcing between the each equipment was 10 cm. The mains cables are dropped to floor and are round to recepatacle. Interconnecting cables of table top equipment that hang closer than 0.4 m to the ground plane are folded back and forth forming a bundle 0.3 m to 0.4 m long, hanging approximately in the middle between ground plane and table. The EUT was positioned such that the distance from antenna to the EUT was 10 meters and the receive antenna was moved from 1m to 4m to investigate maximum highest emission at least 6 points over the frequency range from 30 MHz to1 GHz using a resolution bandwidth of 120 kHz and measured by the quasi-peak detector.

According to this standard paragraph 15.109, as an alternative to the radiated emission limits, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement".

#### ■ Above 1 GHz

The Setup is same as Below 1 GHz placement. The turn table is 0.8 m height and 1.8 m wide x 1.0 m deep size.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meter for above 1 GHz, the highest frequency performed according to internal source frequency of the EUT, the specification was below:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Absorber shall be spread between floor of a turn table and a receive antenna shown in 4.2.3. The antenna used boresight antenna master from 1 meter and 4 meters to find out the maximum emission level and find the highest emission at least 6 points. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

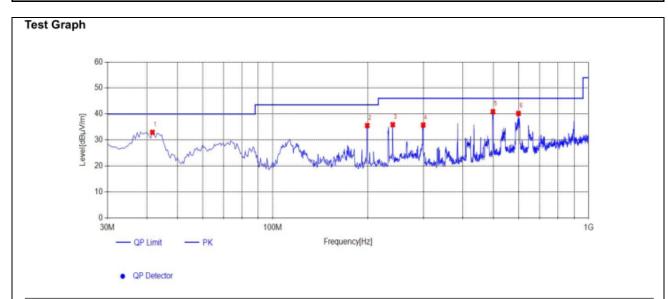
Radiated emissions were applied to above 1 GHz using a resolution bandwidth of 1 MHz and measured by the peak and average detector which antenna to the EUT distance was 3 meters. If the EUT was meet both limits and measurement with the average detector receiver is unnecessary.

### 4.2.4 Test Results

Test Standard: FCC Part 15B Test Distance: 3 m

Test Mode: Test Power: AC 120 V/60 Hz

Measurement Range: 30 MHz~1 GHz Ant.Polar.: Horizontal



Susp	Suspected List										
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	,	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	41.64	44.63	-11.68	32.95	40.00	7.05	100	153	PK	Vertical	PASS
2	199.265	45.81	-10.25	35.56	43.50	7.94	100	90	PK	Vertical	PASS
3	240.005	44.97	-9.07	35.90	46.00	10.10	100	192	PK	Vertical	PASS
4	299.66	43.22	-7.47	35.75	46.00	10.25	100	318	PK	Vertical	PASS
5	498.025	43.53	-2.63	40.90	46.00	5.10	100	332	PK	Vertical	PASS
6	599.875	40.74	-0.54	40.20	46.00	5.80	100	22	PK	Vertical	PASS

Note:1. Result  $(dB\mu V/m) = Reading(dB\mu V/m) + Factor (dB)$ .

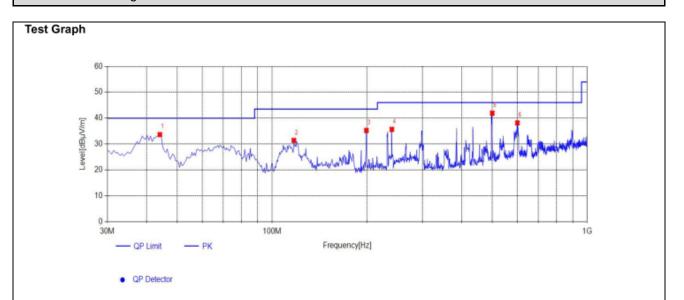
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Report No.: GTS20240426022-1-12A

Test Standard: FCC Part 15B Test Distance: 3 m

Test Mode: Test Power: AC 120 V/60 Hz

Measurement Range: 30 MHz~1 GHz Ant.Polar.: Vertical



Susp	Suspected List										
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	44.065	45.08	-11.45	33.63	40.00	6.37	100	101	PK	Vertical	PASS
2	117.3	43.71	-12.31	31.40	43.50	12.10	100	78	PK	Vertical	PASS
3	199.265	45.50	-10.25	35.25	43.50	8.25	100	101	PK	Vertical	PASS
4	240.005	44.74	-9.07	35.67	46.00	10.33	100	211	PK	Vertical	PASS
5	499.965	44.54	-2.62	41.92	46.00	4.08	100	36	PK	Vertical	PASS
6	600.845	38.71	-0.54	38.17	46.00	7.83	100	23	PK	Vertical	PASS

Note:1. Result  $(dB\mu V/m) = Reading(dB\mu V/m) + Factor (dB)$ .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

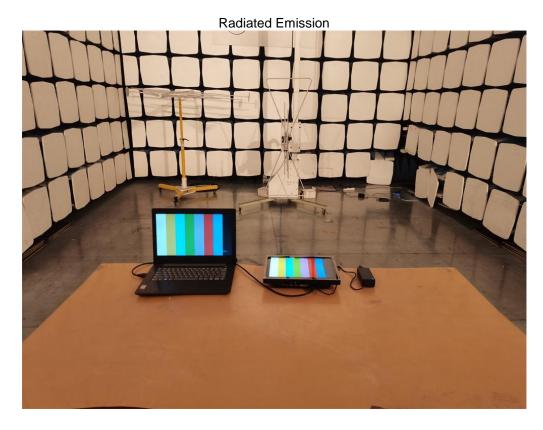
Test Mode: Mode 1 (above 1GHz)	Test Distance: 3m
Test voltage: AC120V	Test Results: Passed
Detector Function: Peak+AV	

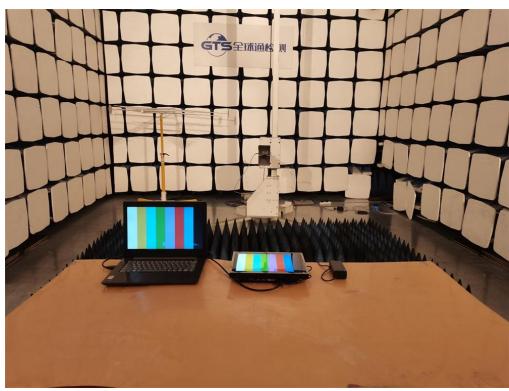
Frequency MHz	Emissio dBµ\		Limits	dBµV/m	Margin	dBµV/m	Polarization
	Peak	AV	Peak	AV	Peak	AV	
1285.29	54.48	38.07	74.00	54.00	-19.52	-15.93	Н
1830.18	56.67	32.51	74.00	54.00	-17.33	-21.49	Н
2157.86	53.59	36.78	74.00	54.00	-20.41	-17.22	Н
3253.41	54.14	39.91	74.00	54.00	-19.86	-14.09	Н
4478.10	52.60	34.74	74.00	54.00	-21.40	-19.26	Н
5700.50	52.51	33.83	74.00	54.00	-21.49	-20.17	Н
1286.34	54.56	37.84	74.00	54.00	-19.44	-16.16	V
1831.17	57.64	32.52	74.00	54.00	-16.36	-21.48	V
2160.77	53.70	36.86	74.00	54.00	-20.30	-17.14	V
3252.76	53.24	40.48	74.00	54.00	-20.76	-13.52	V
4476.56	53.56	34.90	74.00	54.00	-20.44	-19.10	V
5701.24	53.38	33.55	74.00	54.00	-20.62	-20.45	V

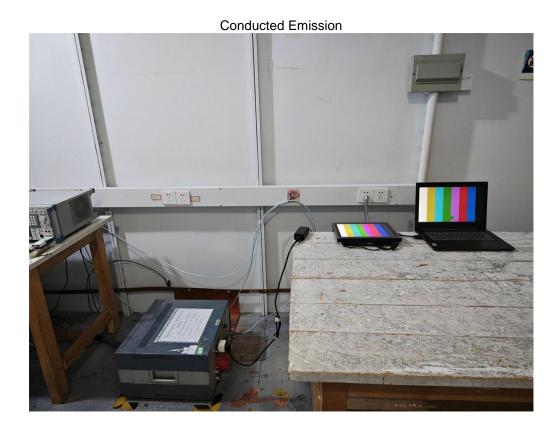
#### Note:

<sup>1.</sup>Pre-scan all modes and recorded the worst case results in this report. 2.18~40GHz at least have 20dB margin. No recording in the test report.

# 5. TEST SETUP PHOTOS OF THE EUT







# 6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

# 6.1. External photos of the EUT



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

# Report No.: GTS20240426022-1-12A

# 6.2.Internal photos of the EUT

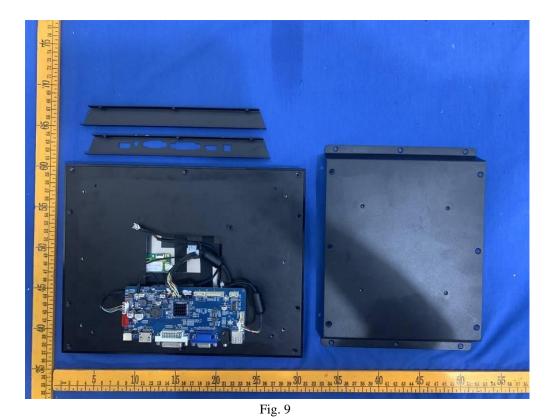


Fig. 10

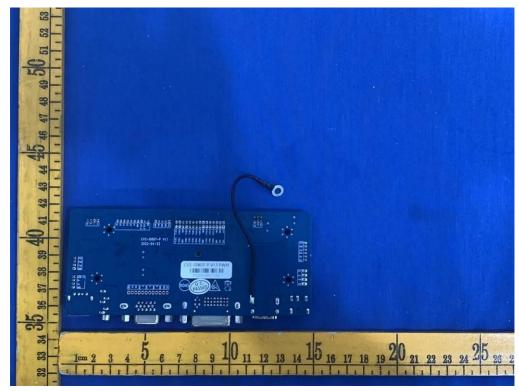


Fig. 11

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