

Technical Compliance Statement

FCC Test Report

For the following information Ref. File No.: A1Z2412184

Product : LCD Monitor
Brand : AOC
Model No. : **24B3QA2*****
(* = 0-9, A-Z, a-z, +, -, /, \ or blank)
Applicant : TPV Electronics (FuJian) Co., Ltd.
Address : Rongqiao Economic and Technological Development
Zone, Fuqing City, Fujian Province, P.R. China
Rules and Standards : 47 CFR FCC Part 15 Subpart B
ANSI C63.4: 2014+ANSI C63.4a: 2017
(Class B Limits)

We hereby certify that the above product has been tested by us and complied with above FCC standard limits. The test was performed according to the procedures ANSI C63.4: 2014+ANSI C63.4a: 2017. The equipment might be marketed in US in accordance with the rules of 47 CFR FCC Part 2 regulations.

The test data and results are issued on the test report **ACS-F24201-1**.

Test Laboratory:
Audix Technology (Shenzhen) Co., Ltd.
NVLAP Lab. Code: 200372-0
FCC OET Designation: CN5022
Web Site: www.audix.com.cn



(Sunny Lu / Manager)
Date: Feb. 17, 2025

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

TEST REPORT

LCD Monitor

AOC

Model No.: **24B3QA2*****

(* = 0-9, A-Z, a-z, +, -, /, \ or blank)

Prepared for: TPV Electronics (FuJian) Co., Ltd.

Rongqiao Economic and Technological Development Zone, Fuqing
City, Fujian Province, P.R. China

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Kefeng Road, Science & Technology Park, Nanshan
District, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Fax: (0755) 26632877



Report Number : ACS-F24201-1
Date of Test : Dec.31, 2024~Jan.07, 2025
Date of Report : Feb.17, 2025

The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, TAF, or any agency of the U.S. Government.

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TEST REPORT

Applicant : TPV Electronics (FuJian) Co., Ltd.
Product : LCD Monitor
Brand : AOC
Model No. : **24B3QA2***** (* = 0-9, A-Z, a-z, +, -, /, \ or blank)
Report No. : ACS-F24201-1
Power Supply : AC 100-240V, 50/60Hz
Test Voltage : AC 120V/60Hz

Rules of Compliance and Applicable Standards:

47 CFR FCC Part 15 Subpart B, Class B Limits
ANSI C63.4: 2014+ANSI C63.4a: 2017

The device described above was tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. All of the tests were requested by the applicant and the results thereof based upon the information that the applicant provided to us. We, Audix Technology (Shenzhen) Co., Ltd. assume full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT is compliance with the requirements of 47 CFR FCC Part 2 regulations.

No modifications were required during testing to bring this product into compliance. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

This report applies to single evaluation of one sample of above mentioned products. This report shall not be reproduced in parts without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Dec.31, 2024~Jan.07, 2025 Date of Report: Feb.17, 2025

Prepared by : Dora Yang Reviewed by : Fire Zhang
Dora Yang / Assistant Fire Zhang / Assistant Manager

Approved & Authorized Signer :



Name of the Representative of the Responsible Party: _____

Signature: _____

REPORT REVISION HISTORY

Edition No.	Revision	Issue Date	Report No.
Original	Initial issue of report	Oct.21, 2024	ACS-F24201
Rev.01	1.LVDS interface changes on the host board (applicable to all models); 2.Added aluminum foil countermeasure element. 3.The motherboard software has been upgraded and the HDMI/DP resolution has been upgraded to 1920*1080@120Hz	Feb.17, 2025	ACS-F24201-1

Remark for Rev.01

1. This report is an additional version with original report number ACS-F24201. The different with original report are see the above table of Rev.01.
2. Through evaluation of the above difference, all test items need to assess the test for the original mode.
3. This report is based on report of ACS-F24201.

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Results	Remark
Power Line Conducted Emission Test	47 CFR FCC Part 15 Subpart B ANSI C63.4: 2014+ANSI C63.4a: 2017	PASS	Minimum passing margin is 4.08dB at 2.540MHz
Radiated emission (30MHz-1000MHz)	47 CFR FCC Part 15 Subpart B ANSI C63.4: 2014+ANSI C63.4a: 2017	PASS	Minimum passing margin is 4.23dB at 407.330MHz
Radiated emission (1GHz-18GHz)	47 CFR FCC Part 15 Subpart B ANSI C63.4: 2014+ANSI C63.4a: 2017	PASS	Minimum passing margin is 16.64dB at 1308.120MHz
Note: Measurement uncertainty affection to the result is not considered, the EUT is technically compliant with standard requirements.			

2. GENERAL INFORMATION

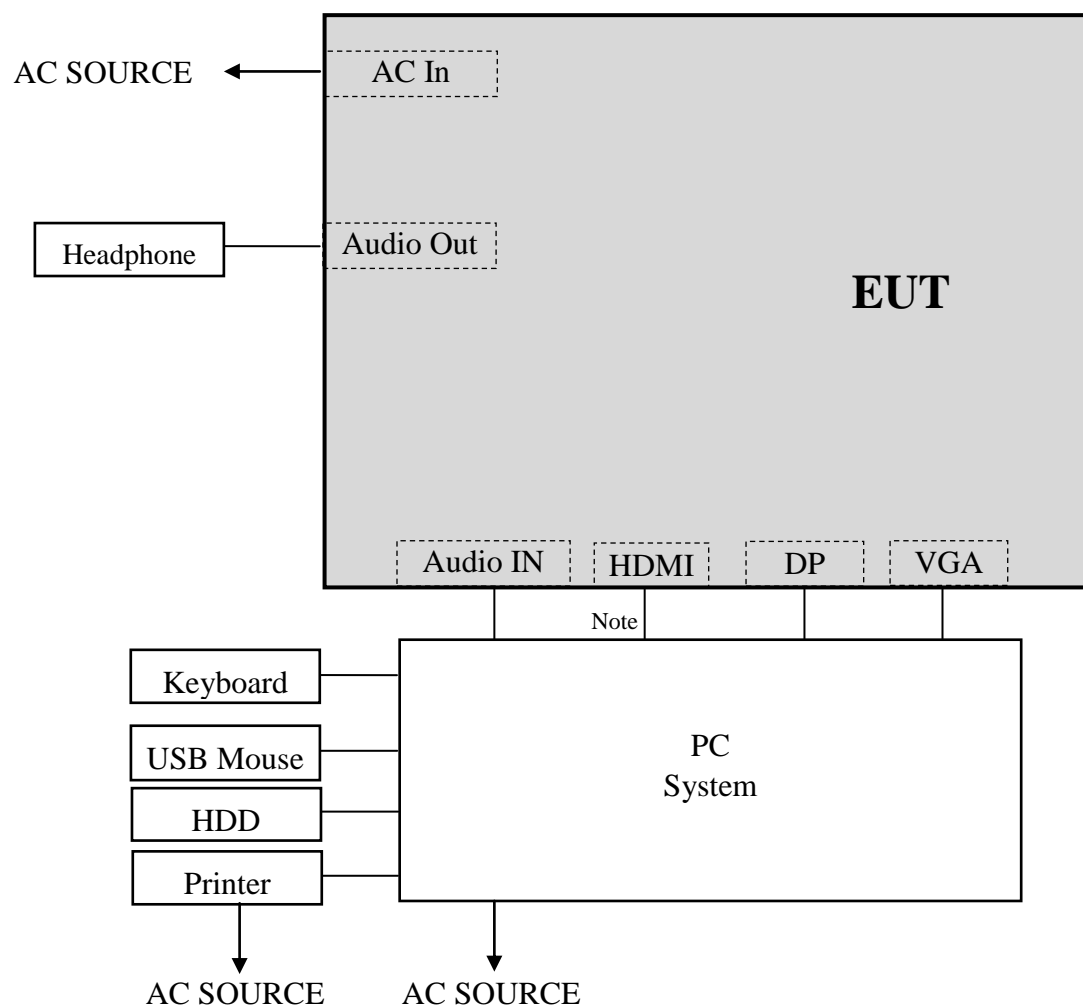
2.1. Description of Device (EUT)

Product	: LCD Monitor
Brand	: AOC
Model No.	: **24B3QA2***** (*=0-9,A-Z,a-z,+,-,/,\ or blank)
Test Model	: 24B3QA2
Applicant	: TPV Electronics (FuJian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China
Max. Resolution	: HDMI&DP: 1920*1080@120Hz VGA: 1920*1080@60Hz
Max. Work Frequency	: Above 108MHz
I/O Port	: (1)One AC In Port (2)One HDMI Port (3)One DP Port (4)One VGA Port (5)A serials of Audio In/Out Ports(Optional)
Power Cord	: Unshielded, Detachable, 1.8m/1.5m (3 pins)
HDMI Cable	: Shielded, Detachable, 1.8m/1.5m
DP Cable	: Shielded, Detachable, 1.8m/1.5m
Audio Cable	: Shielded, Detachable, 1.8m/1.5m
VGA Cable	: Shielded, Detachable, 1.8m/1.5m(with two cores)
Date of Test	: Dec.31, 2024~Jan.07, 2025
Date of Receipt	: Dec.30, 2024
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Personal Computer	---	ASUS	S502MER	S7PFT00F24028H
		Power Cord(3C): Unshielded, Detachable, 1.8m			
2.	USB Keyboard	ACS-EMC-K03R	DELL	SK-8120	CN-ODJ365-71616-2B E-0DCE-A00
		USB Cable: Shielded, Undetachable, 2.0m			
3.	USB Mouse	ACS-EMC-M03R	DELL	M0C5UO	512023253
		USB Cable: Shielded, Undetachable, 1.8m			
4.	Printer	ACS-EMC-PT06	Canon	MG3080	KLSV26948
		USB Cable: Shielded, Detachable, 1.8m			
		Power Cord(2C): Unshielded, Detachable, 1.8m			
5.	HDD	ACS-EMC-HDD33	WD	WD My Book Studio	WCAV5C987862
		Data Cable: Shielded, Detachable, 0.4m			
6.	DVD	---	Pioneer	DV-310NC-K	---
7.	Headphone	ACS-EMC-EP01	OVANN	0V-T880V	---
		Data Cable: Shielded, Detachable, 2.0m			

2.3. Block Diagram of Test Setup



**Note 1: PC Mode, DVD Mode can not link the HDMI port at the same time.
(EUT: LCD Monitor)**

2.4.Method of Exercising EUT

Operating System	Windows 10 of PC system
Test Program	BurnIn Test V9.0
Video Signal (Display Image)	“H” pattern(Arial, 9; Black letters on white background)
Audio	1kHz signal playing
Other	Other peripheral devices were driven and operated in turn

Display and video parameters

Function	Setting
Hardware acceleration	Maximum
Screen settings	High/medium/low effective resolution
Color quality	Highest color bit depth
Brightness, contrast, color saturation	Set the contrast and color saturation to the maximum value. Set the brightness to the maximum value or the maximum value before the cursor disappears
Other	Adjusted to obtain a typical picture using settings giving the highest performance

2.5. Description of Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District, Shenzhen, Guangdong, China

EMC Lab. : Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2025

Certificated by FCC, USA
Designation No: CN5022
Valid Date: Mar.31, 2025

Accredited by TAF, Taiwan
Registration No: 1418
Valid Date: Nov.30, 2026

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 2 Conduction	$\pm 2.4\text{dB}$ (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 10m chamber (Distance: 10m)	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: H)
	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: V)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: H)
	$\pm 4.4\text{dB}$ (200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz)	$\pm 4.4\text{dB}$ (1-6GHz, Distance: 3m)
	$\pm 4.6\text{dB}$ (6-18GHz, Distance: 3m)
Uncertainty for S_{VSWR} in 10m Chamber	$\pm 2.8\text{dB}$ (1-6GHz, Distance: 3m)
	$\pm 2.8\text{dB}$ (6-18GHz, Distance: 3m)
Uncertainty for test site temperature and humidity and Pressure	$\pm 0.6^{\circ}\text{C}$
	$\pm 3\%$
	$\pm 1\text{kPa}$

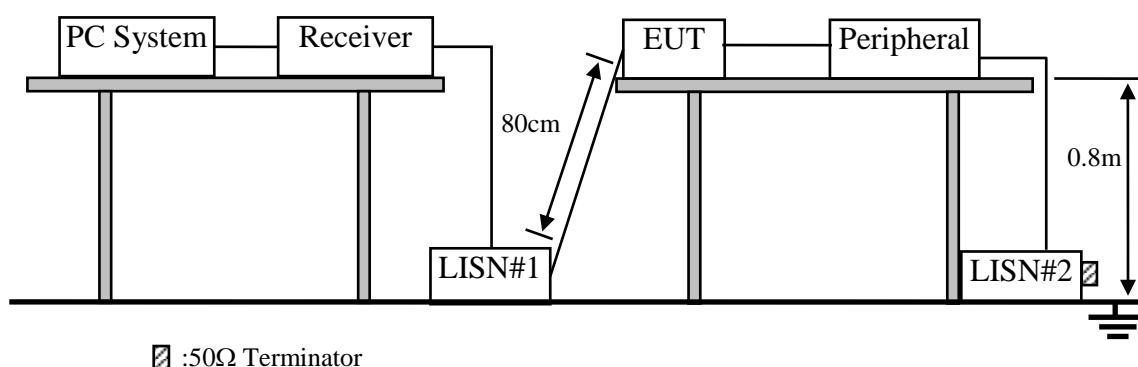
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	2# Shielding Room(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Mar.16,24	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102834	Jun.19,24	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	Mar.16,24	1 Year
5.	RF Cable	Eastsheep	RG223	190425	Sep.13,24	1 Year
6.	Terminator	Hubersuhner	50Ω	No.4	Mar.16,24	1 Year
7.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Class B Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limits shall apply at the transition frequencies.

3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB)+Reading (Receiver) (dBμV)

3.4. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 on conducted Emission test.

The bandwidth of the (R&S ESR7) was set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test results are recorded in Section 3.5.

3.5. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD Monitor

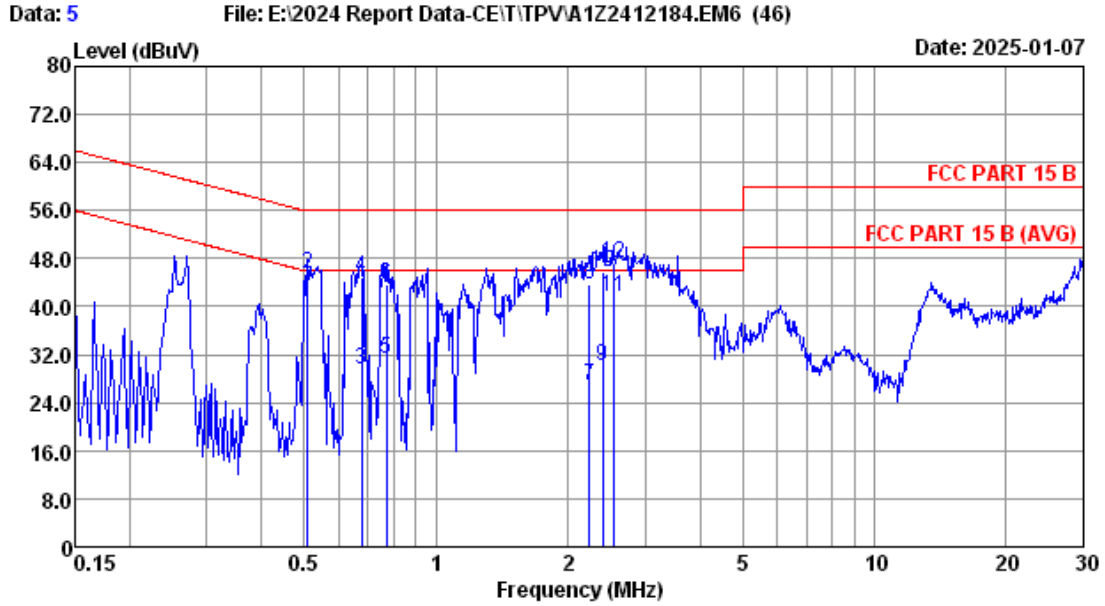
Model No. : 24B3QA2

The EUT with following test modes were pre-tested:

No.	Test Mode	Input Port	Cable Length	Resolution & Frequency
1.	PC Mode	DP	1.8m	640*480@60Hz
2.				1280*1024@75Hz
3.				1920*1080@120Hz
4.		HDMI	1.8m	640*480@60Hz
5.				1280*1024@75Hz
6.				1920*1080@120Hz
7.			1.5m	1920*1080@120Hz
8.		VGA	1.8m	640*480@60Hz
9.				1280*1024@75Hz
10.				1920*1080@60Hz
11.	DVD Mode	HDMI	1.8m	Color Bar

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

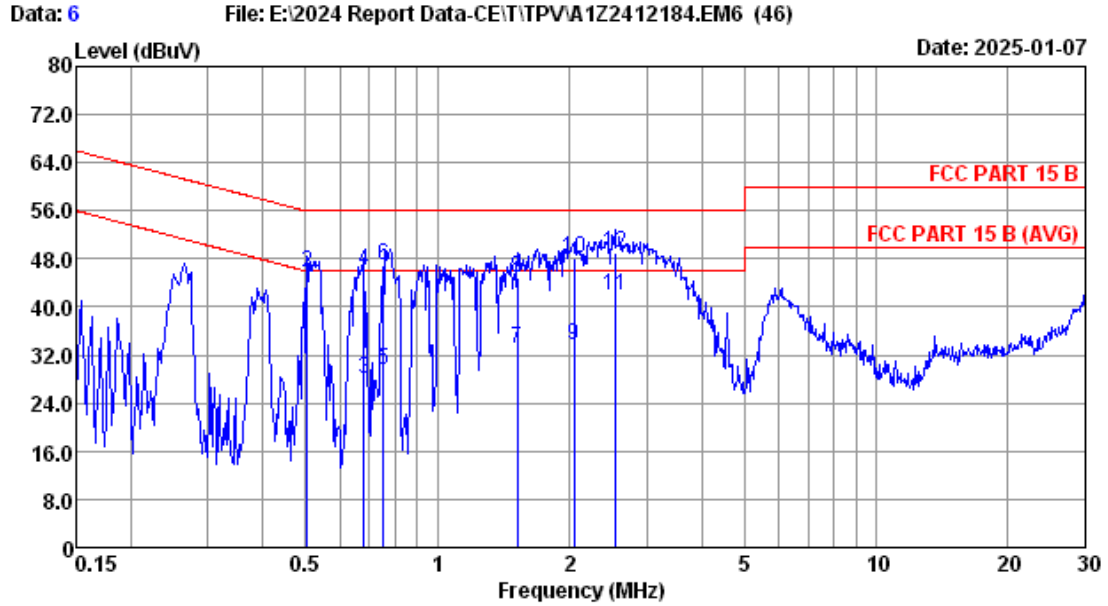
No.	Cable Length	Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
					Line	Neutral
1.	1.8m	PC Mode	HDMI	1920*1080@120Hz	#5	#6



Site no	:1# CE	Data No	:5
Dis./Lisn	:2024 ENV216 0.15-30M	LISN phase:	LINE
Limit	:FCC PART 15 B	Pressure	:101.5kPa
Env./Ins.	:22.8°C/47%	Engineer	:Hongjie
EUT	:M/N:24B3QA2		
Power Rating	:AC 120V/60Hz		
Test Mode	:HDMI:1920*1080@120Hz		
	Line:1.8m		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.510	9.62	0.01	29.03	38.66	46.00	7.34	Average
2	0.510	9.62	0.01	35.74	45.37	56.00	10.63	QP
3	0.675	9.64	0.01	19.93	29.58	46.00	16.42	Average
4	0.675	9.64	0.01	35.17	44.82	56.00	11.18	QP
5	0.771	9.64	0.01	21.51	31.16	46.00	14.84	Average
6	0.771	9.64	0.01	34.00	43.65	56.00	12.35	QP
7	2.236	9.65	0.03	17.04	26.72	46.00	19.28	Average
8	2.236	9.65	0.03	34.12	43.80	56.00	12.20	QP
9	2.396	9.65	0.03	20.37	30.05	46.00	15.95	Average
10	2.396	9.65	0.03	36.07	45.75	56.00	10.25	QP
11	2.540	9.65	0.04	32.04	41.73	46.00	4.27	Average
12	2.540	9.65	0.04	37.44	47.13	56.00	8.87	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no	:1# CE	Data No	:6
Dis./Lisn	:2024 ENV216 0.15-30M	LISN phase:	NEUTRAL
Limit	:FCC PART 15 B	Pressure	:101.5kPa
Env./Ins.	:22.8°C/47%	Engineer	:Hongjie
EUT	:M/N:24B3QA2		
Power Rating	:AC 120V/60Hz		
Test Mode	:HDMI:1920*1080@120Hz		
	Line:1.8m		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.504	9.65	0.01	27.01	36.67	46.00	9.33	Average
2	0.504	9.65	0.01	35.97	45.63	56.00	10.37	QP
3	0.679	9.64	0.01	18.29	27.94	46.00	18.06	Average
4	0.679	9.64	0.01	36.52	46.17	56.00	9.83	QP
5	0.754	9.64	0.01	19.95	29.60	46.00	16.40	Average
6	0.754	9.64	0.01	37.35	47.00	56.00	9.00	QP
7	1.519	9.64	0.03	23.34	33.01	46.00	12.99	Average
8	1.519	9.64	0.03	35.31	44.98	56.00	11.02	QP
9	2.044	9.65	0.03	23.94	33.62	46.00	12.38	Average
10	2.044	9.65	0.03	38.31	47.99	56.00	8.01	QP
11	2.540	9.65	0.04	32.23	41.92	46.00	4.08	Average
12	2.540	9.65	0.04	39.38	49.07	56.00	6.93	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipments

4.1.1. For frequency range 30MHz~1000MHz (In 10m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber(NSA)	AUDIX	N/A	N/A	Aug.12,23	3 Year
2.	10m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	103669	Sep.15,24	1 Year
4.	Signal Analyzer	Rohde & Schwarz	FSV30	103670	Jun.19,24	1 Year
5.	EMI Test Receiver	Rohde & Schwarz	ESR3	102891	Sep.15,24	1 Year
6.	Amplifier	EMCI	EMC9135	980348	Dec.12,24	1 Year
7.	Broadband Amplifier	SCHWARZBECK	BBV9744	00259	Aug.13,24	1 Year
8.	Amplifier	EMCI	EMC9135	980347	Sep.13,24	1 Year
9.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	01317	Nov.22,24	1 Year
10.	Tri-log-Broadband Antenna	Schwarzbeck	VULB 9168	710	Feb.23,24	1 Year
11.	RF Cable	SPUMA	CFD400-NM-NM	160727+160728	Mar.17,24	1 Year
12.	Coaxial Switch	Anritsu	MP59B	6201397220	Mar.17,24	1 Year
13.	Coaxial Switch	Anritsu	MP59B	6201397221	Mar.17,24	1 Year
14.	Coaxial Switch	Anritsu	MP59B	6201397224	Mar.17,24	1 Year
15.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

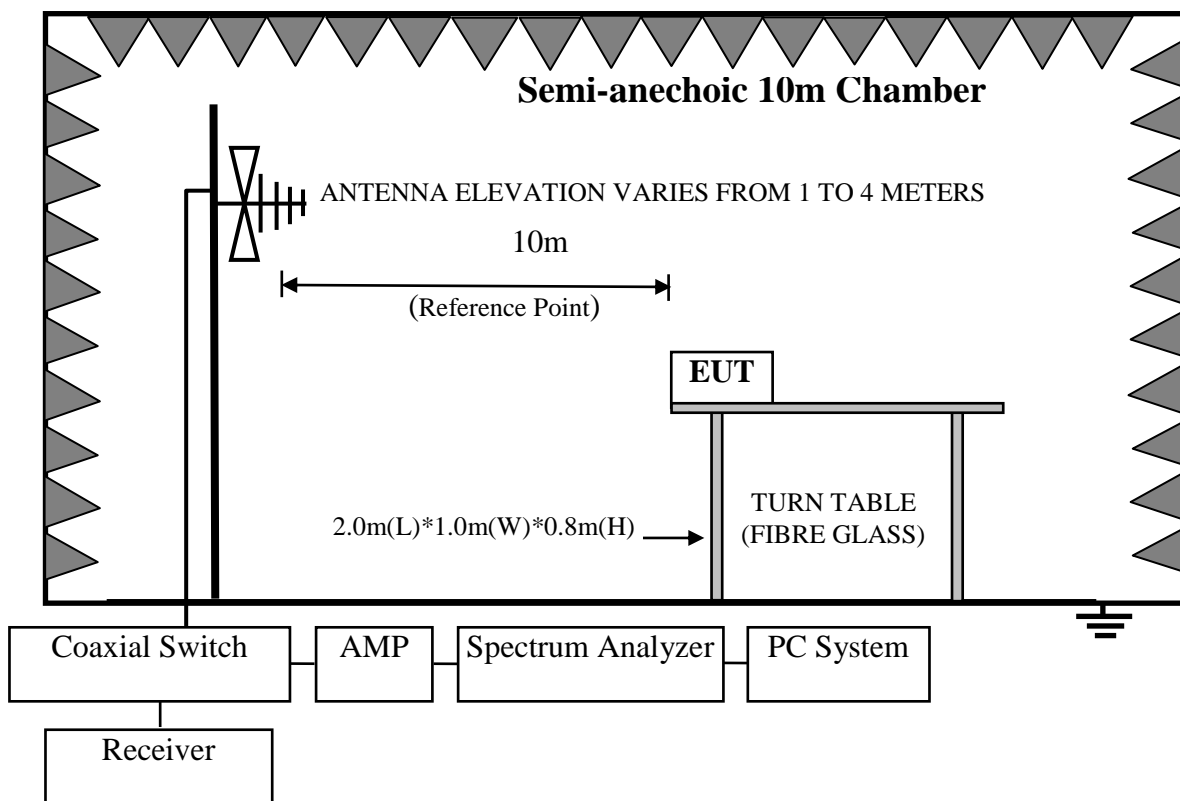
4.1.2. For frequency range above 1GHz (In 10m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber(Svswr)	AUDIX	N/A	N/A	Aug.08,23	3 Year
2.	10m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	103669	Sep.15,24	1 Year
4.	Horn Antenna	ETS	3117	00218552	Feb.22,24	1 Year
5.	Amplifier	EMCI	EMC0518A45SE	980963	Aug.13,24	1 Year
6.	RF Cable	TIMES MICROWAVE	SFT205-SMNM-6M	20231214-0001	Aug.13,24	1 Year
7.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

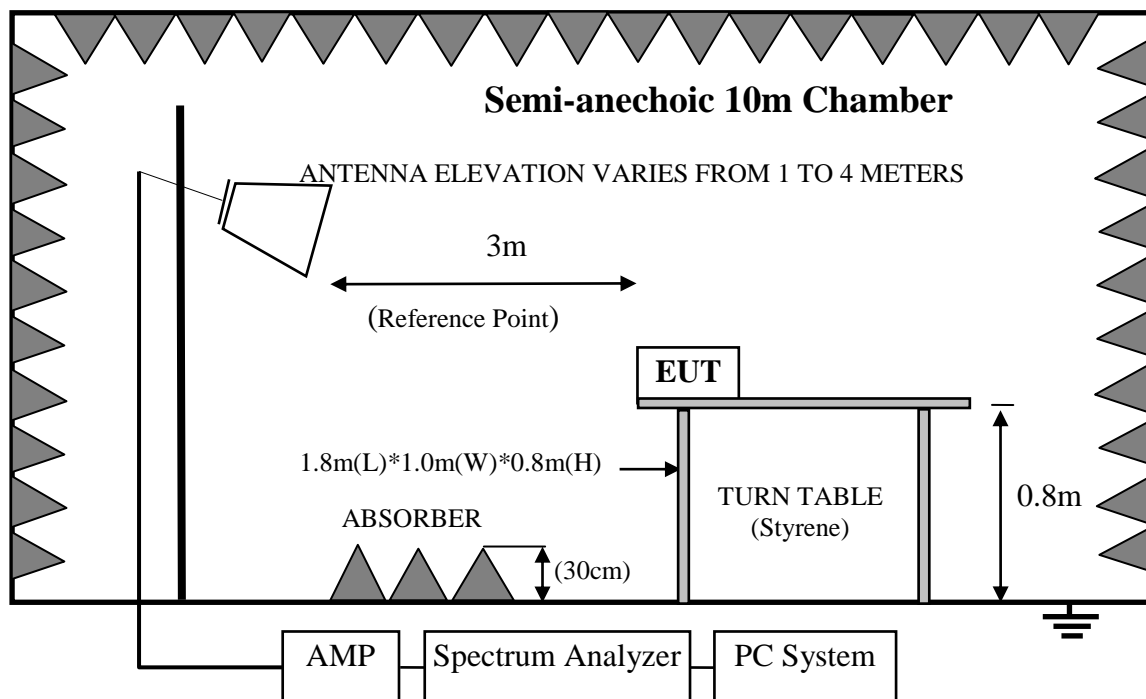
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

4.2.1. Test Setup Diagram for 30MHz~1000MHz (In 10m Anechoic Chamber)



4.2.2. For frequency range above 1GHz (In 10m Anechoic Chamber)



4.3. Radiated Emission Limits

All emanations from a Class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FCC §15.109/CISPR 22, Class B

Frequency (MHz)	Distance (Meters)	Field strengths limits (dBμV/m)
30 ~ 230	10	30
230~1000	10	37
Above 1000	3	74(Peak) 54(Average)

Notes: (1) Emission Level (dBμV/m) = Reading (Receiver) (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB)
 Emission Level (dBμV/m) = Reading (Spectrum) (dBμV) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(above 1000MHz)
 (2) The lower limits shall apply at the transition frequencies.

4.4. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 10m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 on radiated emission test.

The bandwidth setting on the test receiver is 120kHz.

The resolution bandwidth of the Signal Analyzer was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 18GHz was checked and all final readings of measurement were with Peak and Average detector, measurement distance was 10m at semi-anechoic chamber. the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. The portion of the test volume that was obstructed by absorber placed on the floor (30cm maximum).

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.5.

4.5. Radiated Disturbance Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD Monitor

Model No. : 24B3QA2

For frequency range 30MHz~1000MHz

The EUT with following test modes were pre-tested:

No.	Test Mode	Input Port	Cable Length	Resolution & Frequency
1.	PC Mode	DP	1.8m	640*480@60Hz
2.				1280*1024@75Hz
3.				1920*1080@120Hz
4.		HDMI	1.8m	640*480@60Hz
5.				1280*1024@75Hz
6.				1920*1080@120Hz
7.		VGA	1.5m	1920*1080@120Hz
8.			1.8m	640*480@60Hz
9.				1280*1024@75Hz
10.				1920*1080@60Hz
11.	DVD Mode	HDMI	1.8m	Color Bar

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

No.	Test Mode	Input Port	Cable Length	Resolution & Frequency	Reference Test Data No.	
					Horizontal	Vertical
1.	PC Mode	HDMI	1.8m	1920*1080@120Hz	#4	#3

For frequency range 1GHz~18GHz

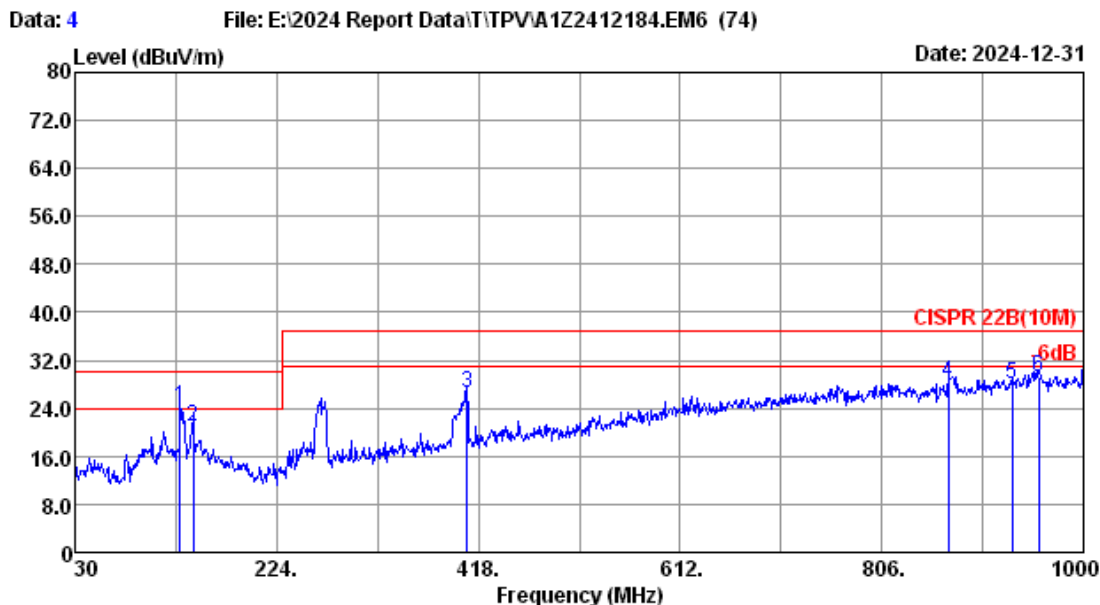
The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages.

The EUT with following test modes were pre-tested:.

No.	Test Mode	Input Port	Cable Length	Resolution & Frequency
1.	PC Mode	DP	1.8m	1280*1024@75Hz
2.				1920*1080@120Hz
3.		HDMI	1.8m	1280*1024@75Hz
4.				1920*1080@120Hz
5.			1.5m	1920*1080@120Hz
6.		VGA	1.8m	1280*1024@75Hz
7.				1920*1080@60Hz
8.	DVD Mode	HDMI	1.8m	Color Bar

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

No.	Test Mode	Input Port	Cable Length	Resolution & Frequency	Reference Test Data No.	
					Horizontal	Vertical
1.	PC Mode	HDMI	1.8m	1920*1080@120Hz	#60	#59



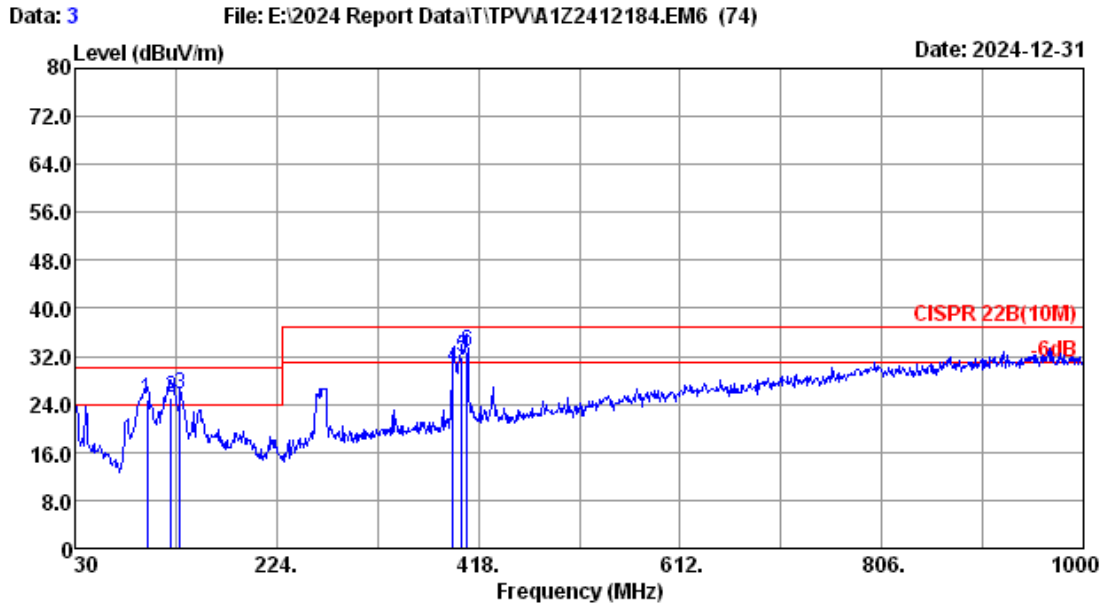
Site no.	: 10m Chamber	Data no.	: 4
Dis. / Ant.	: 10m 2024 VULB9168-01317	Ant. pol.	: HORIZONTAL
Limit	: CISPR 22B(10M)	Pressure	: 101.6kPa
Env. / Ins.	: 23.0°C/53%	Engineer	: Cinder
EUT	: M/N:24B3QA2		
Power rating	: AC 120V/60Hz		
Test Mode	: HDMI:1920*1080@120Hz		
	Line:1.8m		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	130.880	17.70	1.32	5.17	24.19	30.00	5.81	QP*
2	143.490	19.00	1.38	0.53	20.91	30.00	9.09	QP
3	407.330	21.55	2.69	2.23	26.47	37.00	10.53	QP
4	870.020	28.60	4.41	-4.76	28.25	37.00	8.75	QP
5	931.130	29.50	4.45	-5.86	28.09	37.00	8.91	QP
6	957.320	29.65	4.48	-4.92	29.21	37.00	7.79	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The worst emission was detected at 130.880MHz with corrected signal level of 24.19dBuV/m (Antenna height 1.60m; Turntable degree 186°)

3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



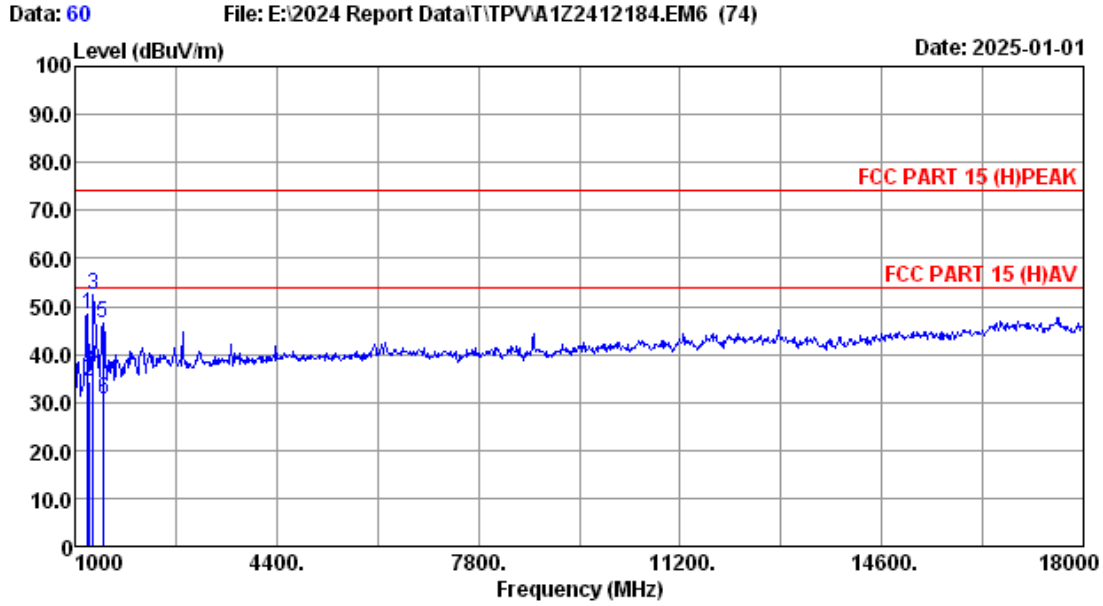
Site no.	: 10m Chamber	Data no.	: 3
Dis. / Ant.	: 10m 2024 VULB9168-710	Ant. pol.	: VERTICAL
Limit	: CISPR 22B(10M)	Pressure	: 101.6kPa
Env. / Ins.	: 23.0°C/53%	Engineer	: Cinder
EUT	: M/N:24B3QA2		
Power rating	: AC 120V/60Hz		
Test Mode	: HDMI:1920*1080@120Hz		
	Line:1.8m		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	99.840	14.98	1.50	8.28	24.76	30.00	5.24	QP
2	122.150	17.00	1.63	6.46	25.09	30.00	4.91	QP
3	130.880	17.89	1.68	6.11	25.68	30.00	4.32	QP
4	393.750	21.48	2.98	5.51	29.97	37.00	7.03	QP
5	402.480	21.65	3.02	7.18	31.85	37.00	5.15	QP
6	407.330	21.79	3.04	7.94	32.77	37.00	4.23	QP*

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The worst emission was detected at 407.330MHz with corrected signal level of 32.77dBuV/m (Antenna height 3.10m; Turntable degree 299°)

3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no.	: 10m Chamber	Data no.	: 60
Dis. / Ant.	: 3m 2024-3117	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 (H)PEAK	Pressure	: 101.6kPa
Env. / Ins.	: 23.0°C/53%	Engineer	: Cinder
EUT	: M/N:24B3QA2		
Power rating	: AC 120V/60Hz		
Test Mode	: HDMI:1920*1080@120Hz		
	Line:1.8m		

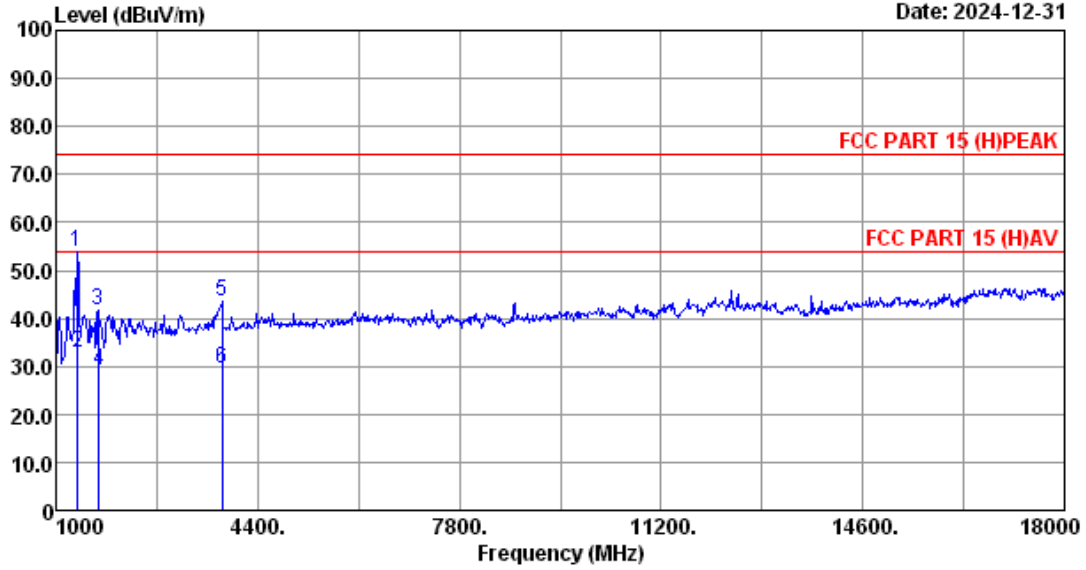
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1221.000	28.34	1.53	50.11	68.59	48.35	74.00	25.65	Peak
2	1228.120	28.45	1.54	50.11	54.47	34.35	54.00	19.65	Average
3	1306.000	29.82	1.58	50.15	71.10	52.35	74.00	21.65	Peak
4	1308.120	29.83	1.58	50.15	56.10	37.36	54.00	16.64	Average
5	1476.000	28.06	1.69	50.24	66.82	46.33	74.00	27.67	Peak
6	1478.120	28.07	1.69	50.24	51.24	30.76	54.00	23.24	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor

Data: 59

File: E:\2024 Report Data\TPV\A1Z2412184.EM6 (74)

Date: 2024-12-31



Site no. : 10m Chamber
 Dis. / Ant. : 3m 2024-3117
 Limit : FCC PART 15 (H) PEAK
 Env. / Ins. : 23.0°C/53%
 EUT : M/N:24B3QA2
 Power rating : AC 120V/60Hz
 Test Mode : HDMI:1920*1080@120Hz
 Line:1.8m

Data no. : 59
 Ant. pol. : VERTICAL
 Pressure : 101.6kPa
 Engineer : Cinder

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1357.000	29.89	1.61	50.18	72.70	54.02	74.00	19.98	Peak
2	1359.120	29.85	1.62	50.18	51.45	32.74	54.00	21.26	Average
3	1714.000	29.14	1.83	50.36	61.08	41.69	74.00	32.31	Peak
4	1718.120	29.18	1.83	50.36	48.33	28.98	54.00	25.02	Average
5	3805.000	33.38	2.74	48.98	56.29	43.43	74.00	30.57	Peak
6	3808.120	33.37	2.74	48.97	42.25	29.39	54.00	24.61	Average

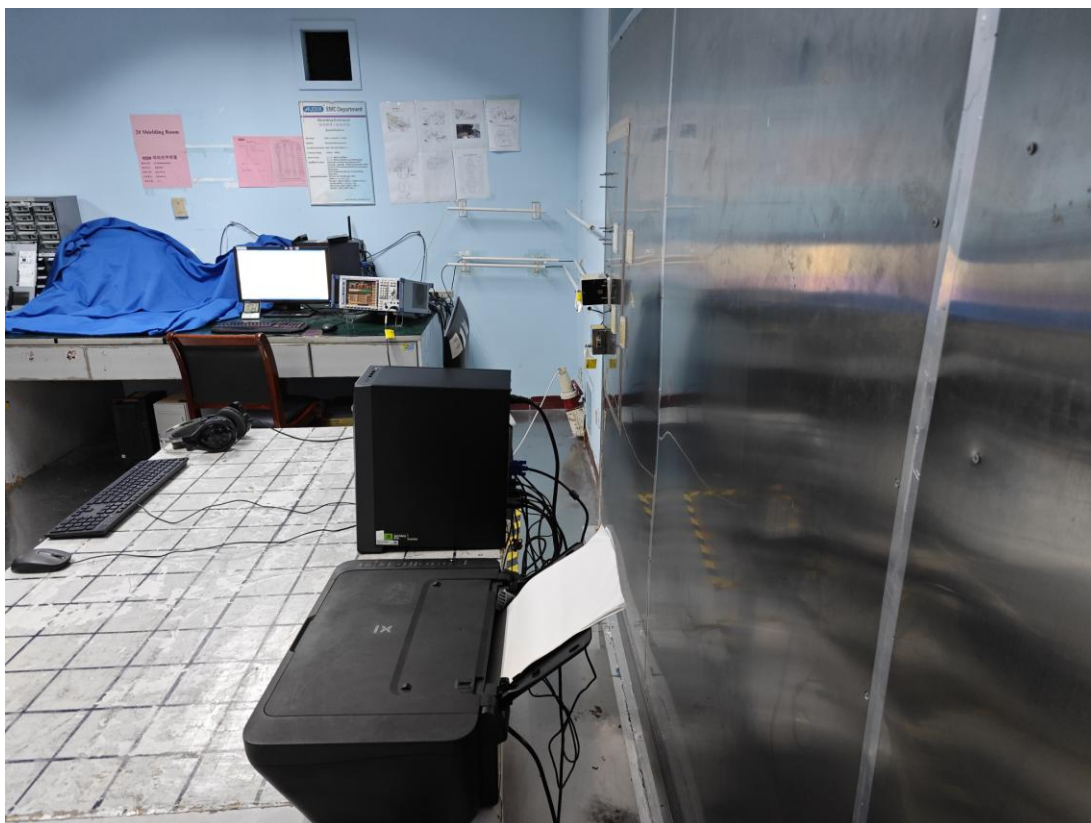
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor

5. DEVIATION TO TEST SPECIFICATIONS

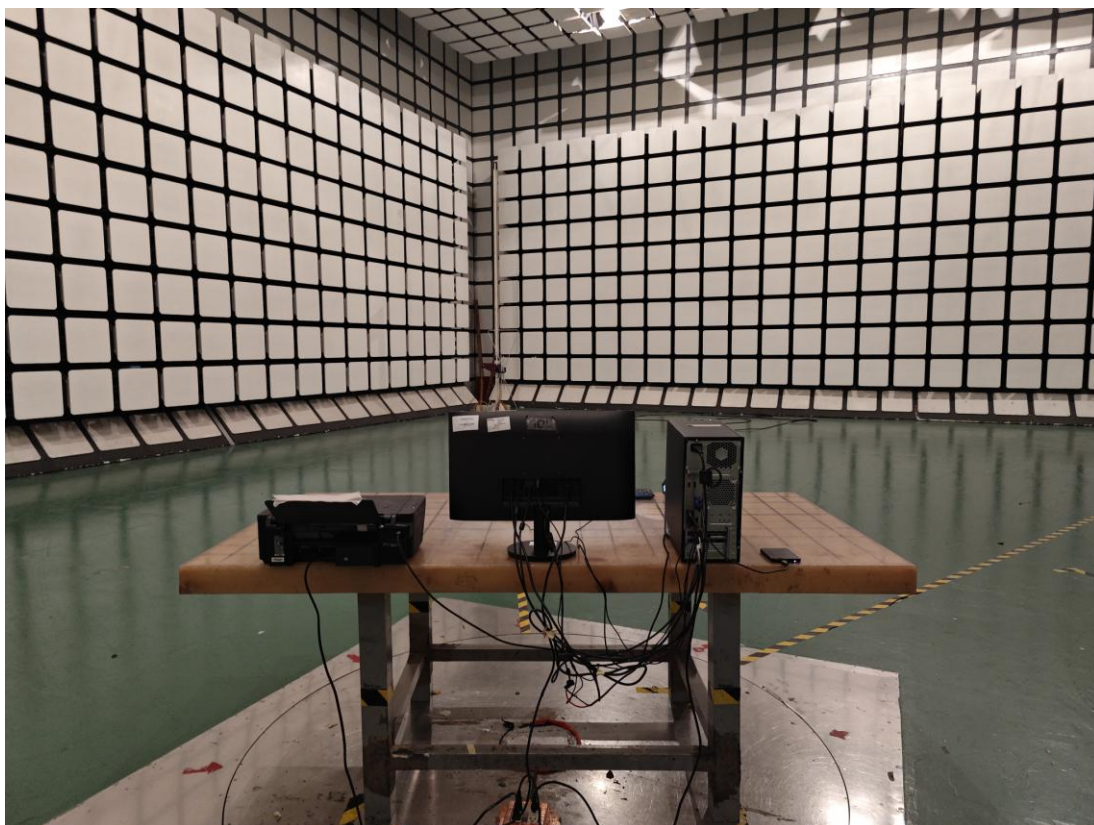
[NONE]

6. PHOTOGRAPH

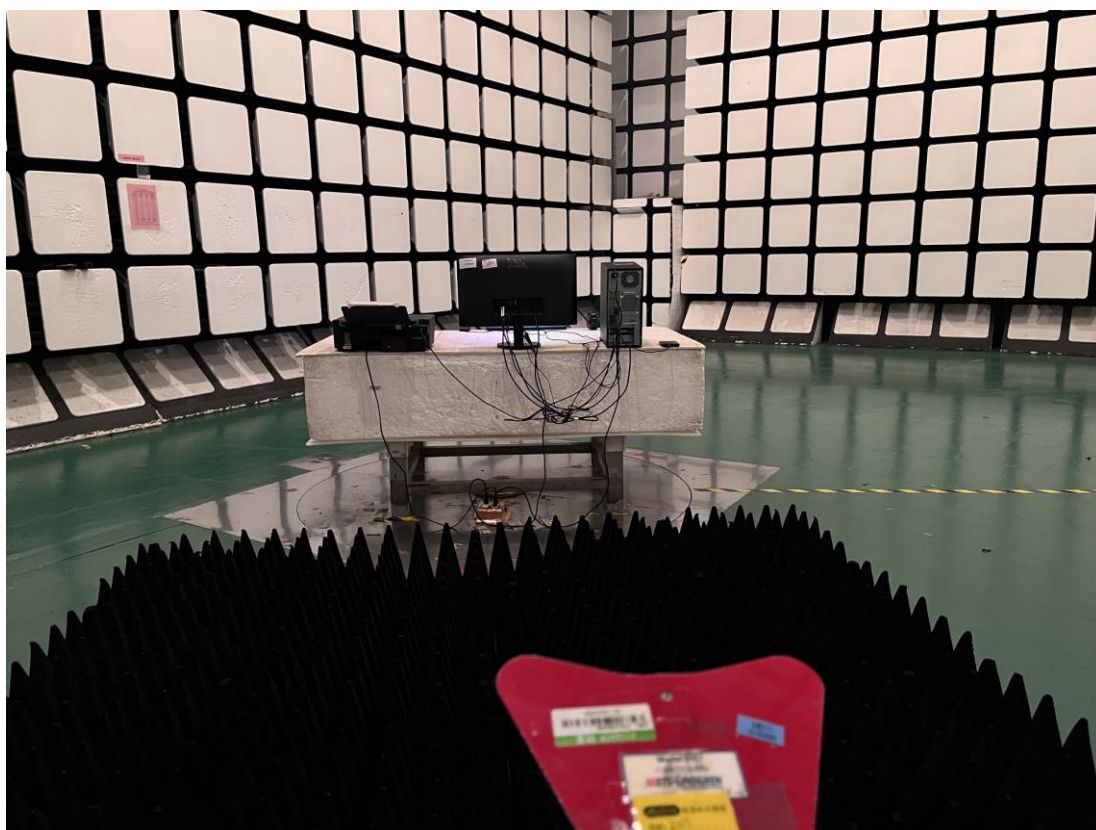
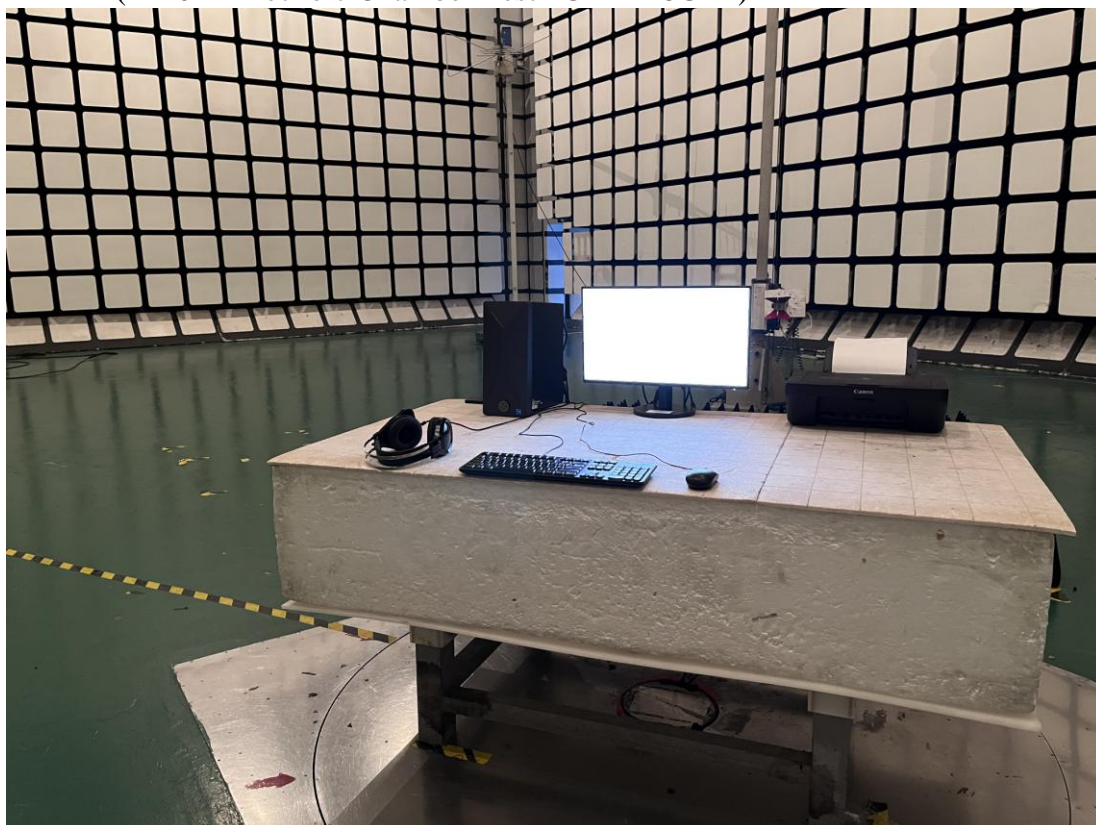
6.1. Photos of Power Line Conducted Emission Test



6.2.Photos of Radiated Emission Test (In 10m Anechoic Chamber)



(In 10m Anechoic Chamber Test 1GHz –18GHz)



THE END