LCS TestingL



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| | AUSTRALIA TEST REPORT For NNEX Supply Chain Services Ltd Motorised TV Floorstand | |
|---|---|--------------------|
| | Test Model: VFM-F25M | |
| Prepared for Address | TD SYNNEX Supply Chain Services Ltd Maplewood, Crockford Lane, Chineham Park, Basingstoke, Hampshire, RG24 8YB, United Kingdom | NBC (F) ing Lab |
| Prepared by Address | Shenzhen LCS Compliance Testing Laboratory Ltd. Room 101, 201, Building A and Room 301, Building C Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China |) , |
| Tel Fax | : (+86)755-82591330 : (+86)755-82591332 | |
| Web Mail | : www.LCS-cert.com : webmaster@LCS-cert.com | |
| Date of receipt of test sample Number of tested samples Sample number Date of Test Date of Report | March 13, 2023 1 A031323086 March 13, 2023 ~ April 08, 2023 April 10, 2023 | |





| | Page 2 of 23 Rep | Dort No.: LCSA031323086E |
|--|---|--|
| AS/N2 | USTRALIA TEST REPORT S CISPR 32: 2015 AMD 1: 2020 ibility of multimedia equipment - Emiss | |
| Report Reference No: | | sting |
| Date Of Issue | | |
| Testing Laboratory Name: | Shenzhen LCS Compliance Testing | Laboratory Ltd. |
| Address | Room 101, 201, Building A and Room Industrial Park, Yabianxueziwei, Shaji District, Shenzhen, Guangdong, China | ng Street, Bao'an a |
| Testing Location/ Procedure: | Full application of Harmonised standa Partial application of Harmonised star Other standard testing method | |
| Applicant's Name | TD SYNNEX Supply Chain Services | Ltd |
| Address | Maplewood, Crockford Lane, Chineha Hampshire, RG24 8YB, United Kingdo | · · · · |
| Test Specification: | | |
| Standard | AS/NZS CISPR 32: 2015 AMD 1: 202 | 0 |
| Test Report Form No | LCSEMC-1.0 | |
| TRF Originator | Shenzhen LCS Compliance Testing L | aboratory Ltd. |
| Master TRF: | Dated 2011-03 | |
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| Test Item Description: | Motorised TV Floorstand | |
| Trade Mark | Vision VFM-F25M | |
| Ratings: | | |
| Result | Positive | |
| Compiled by: | Supervised by: | Approved by: |
| Cindy Nie | Baron Nen | (Jains Piang |
| Cindy Nie/ File administrators | Baron Wen/ Technique principal | Gavin Liang/ Manage |
| | | |
| Bao'an District, Shenzhen, Gu | A and Room 301, Building C, Juji Industrial Park, Yabian | xueziwei, Shajing Street, |



Report No.: LCSA031323086E

AUSTRALIA -- TEST REPORT

Test Report No. : LCSA031323086E

April 10, 2023 Date of issue

| Test Model | : VFM-F25M | | |
|--|---------------------------|--|--------------------|
| EUT | : Motorised T | V Floorstand | |
| 言思守 | | 10-11111111111111111111111111111111111 | 一個時代 |
| | | X Supply Chain Services Ltd | |
| Address | . Maplewood Hampshire, | , Crockford Lane, Chineham P RG24 8YB, United Kingdom | Park, Basingstoke, |
| Telephone | | _ | |
| Fax | : / | | |
| | | | |
| Manufacturer | : TD SYNNE | X Supply Chain Services Ltd | l |
| Address | Hampshire. | , Crockford Lane, Chineham P RG24 8YB, United Kingdom | Park, Basingstoke, |
| Telephone | : / I'll the still | | |
| Fax | | | |
| For the second sec | | | |
| Factory | | | |
| Address | | , Crockford Lane, Chineham P RG24 8YB, United Kingdom | ark, Basingstoke, |
| Telephone | : / | | |
| Fax | : / | | |
| 立语标题题 Lab | | | |
| | | | |

Test Result according to the standards on page 7:

Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





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Revision History

| Revision | Issue Date | Revision Content | Revised By | |
|-----------|------------------|------------------|------------|-------|
| 000 | 👷 April 10, 2023 | Initial Issue | 1 | 股份 |
| THAT | ngLab | Tirt Testing Lab | THAT | ng La |
| Test room | 1 | 100 | 100 | |





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LCS Testing





| Test Report Description | Page |
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| | |
| | |





1. TEST STANDARDS

The tests were performed according to following standards:

AS/NZS CISPR 32: 2015 AMD 1: 2020 Electromagnetic compatibility of multimedia equipment - Emission requirements







2. SUMMARY OF STANDARDS AND RESULTS

2.1. Description of Standards and Results

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

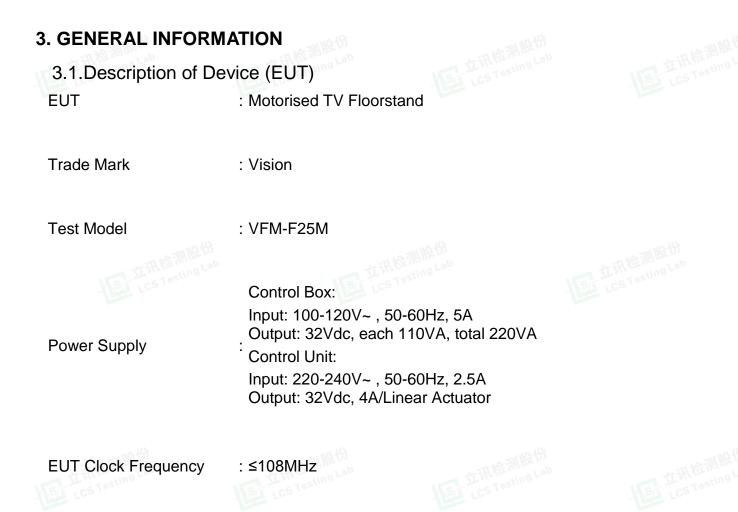
| EMISSION (AS/NZS CISPR 32: 2015 AMD 1: 2020) | | | | | | |
|--|--------------------------------------|---------|-------------|--|--|--|
| Description of Test Item | Standard | Limits | Results | | | |
| Conducted disturbance at mains terminals | AS/NZS CISPR 32: 2015 AMD 1: 2020 | Class B | PASS | | | |
| Radiated disturbance | AS/NZS CISPR 32: 2015 AMD 1: 2020 | Class B | PASS | | | |
| N/A is an abbreviation for Not . | Applicable. | | LCS Testing | | | |

| Test mode: | | |
|------------|---------|--------|
| Mode | Working | Record |









2.2. Support equipment List

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| | | | |

3.2. Description of Test Facility

Site Description EMC Lab.

: NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595.





3.3. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

| Test | Parameters | Expanded uncertainty (Ulab) | Expanded uncertainty (Ucispr) |
|--|---|--------------------------------|----------------------------------|
| Conducted Emission | Level accuracy (9kHz to 150kHz) (150kHz to 30MHz) | ± 2.63 dB ± 2.35 dB | ± 3.8 dB ± 3.4 dB |
| Power Disturbance | Level accuracy (30MHz to 300MHz) | ± 2.90dB | \pm 4.5 dB |
| Electromagnetic Radiated Emission (3-loop) | diated Emission (9kHz to 30MHz) ± 3.60 | | ± 3.3 dB |
| Radiated Emission | adiated Emission Level accuracy (9kHz to 30MHz) | | N/A |
| Radiated Emission | Level accuracy (30MHz to 1000MHz) | \pm 3.48 dB | \pm 5.3 dB |
| Radiated Emission | Level accuracy (above 1000MHz) | \pm 3.90 dB | \pm 5.2 dB |
| Mains Harmonic | Voltage | ± 0.510% | N/A |
| Voltage Fluctuations & Flicker | Voltage | ± 0.510% | N/A |
| EMF | ingLab | ± 21.59% | N/A |

3.4.Measurement Uncertainty

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.





4. TEST RESULTS

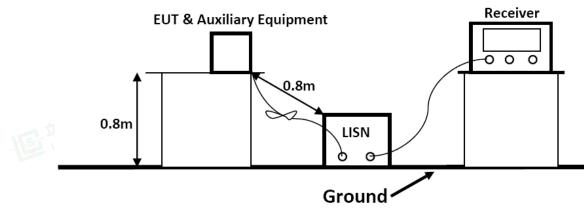
4.1 POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1.1.Test Equipment

The following test equipments are used during the power line conducted measurement:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|-------------------|--------------|------------|------------|------------|------------|
| 1 | EMI Test Software | Farad | EZ | / | N/A | N/A |
| 2 | EMI Test Receiver | R&S | ESR3 | 102312 | 2023-02-25 | 2024-02-24 |
| 3 | Artificial Mains | R&S | ENV216 | 101288 | 2022-06-16 | 2023-06-15 |
| 4 | Pulse Limiter | R&S | ESH3-Z2 | 102750-NB | 2022-08-17 | 2023-08-16 |
| | LCS Testing Lab | | LCS Testin | gLab | IST LCS | TestingLab |

4.1.2.Block Diagram of Test Setup



4.1.3.Test Standard

AS/NZS CISPR 32: 2015 AMD 1: 2020

Power Line Conducted Emission Limits (Class B)

| 1. Co. 21111 | 11/2 | | | Fig. (100) | | |
|--------------------|--|-------|------------------|--------------------------------|--|--|
| Frequency (MHz) | | | Limit (dBµV) | | | |
| | | | Quasi-peak Level | Average Level | | |
| 0.15 | ~ | 0.50 | 66.0 ~ 56.0 * | 56.0 ~ 46.0 * | | |
| 0.50 | ~ | 5.00 | 56.0 | 46.0 | | |
| 5.00 | ~ | 30.00 | 60.0 | 50.0 | | |
| NOTE1-The | NOTE1-The lower limit shall apply at the transition frequencies. | | | | | |

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.





4.1.4.EUT Configuration on Test

The following equipments are installed on Conducted Emission Measurement to see AS/NZS CISPR 32: 2015 AMD 1: 2020 requirements and operating in a manner which tends to maximize its emission characteristics in normal application.

4.1.5. Operating Condition of EUT

4.1.5.1.Setup the EUT as shown on Section 4.1.2

4.1.5.2.Turn on the power of all equipments.

4.1.5.3.Let the EUT work in measuring Working and measure it.

4.1.6.Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to AS/NZS CISPR 32: 2015 AMD 1: 2020 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

4.1.7.Test Results

PASS.

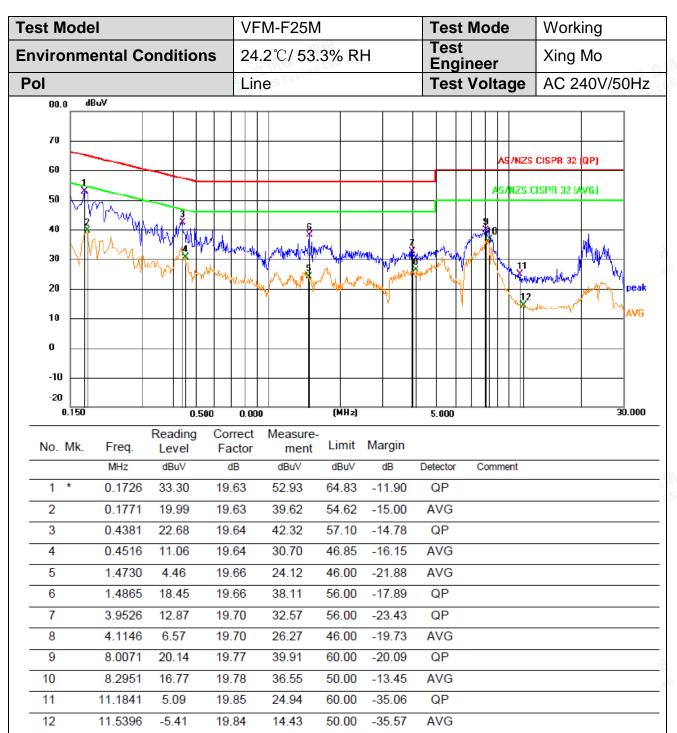
The test result please refer to the next page.





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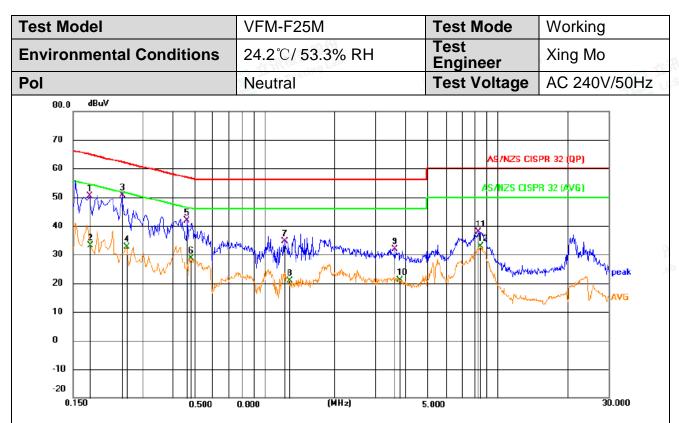


Note: Margin= Reading level + Correct factor – Limit Correct Factor= Lisn Factor+Cable Factor+Limiter Factor





ING



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|-------------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment | |
| 1 | 0.1771 | 30.84 | 19.63 | 50.47 | 64.62 | -14.15 | QP | | |
| 2 | 0.1785 | 13.45 | 19.63 | 33.08 | 54.56 | -21.48 | AVG | | |
| 3 * | 0.2446 | 31.07 | 19.63 | 50.70 | 61.94 | -11.24 | QP | | |
| 4 | 0.2536 | 12.88 | 19.63 | 32.51 | 51.64 | -19.13 | AVG | | , |
| 5 | 0.4651 | 22.20 | 19.64 | 41.84 | 56.60 | -14.76 | QP | | 10 |
| 6 | 0.4831 | 9.08 | 19.64 | 28.72 | 46.29 | -17.57 | AVG | | ۲ <u>))</u> |
| 7 | 1.2210 | 14.89 | 19.66 | 34.55 | 56.00 | -21.45 | QP | | |
| 8 | 1.2705 | 1.30 | 19.66 | 20.96 | 46.00 | -25.04 | AVG | | 7 |
| 9 | 3.6331 | 12.03 | 19.78 | 31.81 | 56.00 | -24.19 | QP | | 3 |
| 10 | 3.8086 | 1.37 | 19.79 | 21.16 | 46.00 | -24.84 | AVG | | 5, |
| 11 | 8.3131 | 17.97 | 19.84 | 37.81 | 60.00 | -22.19 | QP | | |
| 12 | 8.4571 | 12.96 | 19.84 | 32.80 | 50.00 | -17.20 | AVG | | |

Note: Margin= Reading level + Correct factor – Limit Correct Factor= Lisn Factor+Cable Factor+Limiter Factor

Note: For conducted emission and radiated emission test, a power supply of 240VAC and 120VAC was used for testing respectively, and only recorded the worst case of 240VAC.





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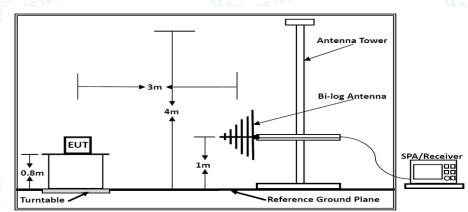
4.2. RADIATED EMISSION MEASUREMENT

4.2.1. Test Equipment

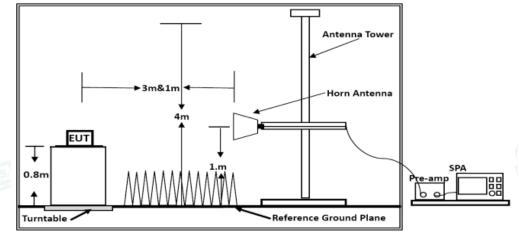
The following test equipments are used during the radiated emission measurement:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|------------------------|--------------|------------|------------|------------|------------|
| 1 | EMI Test Software | AUDIX | E3 | / | N/A | N/A |
| 2 | By-log Antenna | SCHWARZBECK | VULB9163 | 9163-470 | 2021-09-12 | 2024-09-11 |
| 3 | Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1925 | 2021-09-05 | 2024-09-04 |
| 4 | EMI Test Receiver | R&S | ESR7 | 102311 | 2022-08-17 | 2023-08-16 |
| 5 | Broadband Preamplifier | / | BP-01M18G | P190501 | 2022-06-16 | 2023-06-15 |

4.2.2.Block Diagram of Test Setup



Below 1GHz



Above 1GHz

4.2.3.Test Standard AS/NZS CISPR 32: 2015 AMD 1: 2020





4.2.4.Radiated Emission Limits

All emanations from a class B device or system, including any network of

conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

| Limits for Radiated Emission Below 1GHz | | | | | | | |
|---|----------|-----------------------|--|--|--|--|--|
| Frequency | Distance | Field Strengths Limit | | | | | |
| (MHz) | (Meters) | (dBµV/m) | | | | | |
| 30 ~ 230 | 3 | 40 | | | | | |
| 230 ~ 1000 | 3 | 47 | | | | | |

***Note:

(1) The smaller limit shall apply at the combination point 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 EUT.

| Limits for Radiated Emission Above 1GHz | | | | | | | | |
|--|----------|------------|---------------|--|--|--|--|--|
| Frequency | Distance | Peak Limit | Average Limit | | | | | |
| (MHz) | (Meters) | (dBµV/m) | (dBµV/m) | | | | | |
| 1000 ~ 3000 | 3 | 70 | 50 | | | | | |
| 3000 ~ 6000 | 3 | 74 | 54 | | | | | |
| ***Note: The lower limit applies at the transition frequency | | | | | | | | |

**Note: The lower limit applies at the transition frequency.

4.2.5.EUT Configuration on Test

The AS/NZS CISPR 32: 2015 AMD 1: 2020 regulations test method must be used to find the maximum emission during radiated emission measurement.

4.2.6.Operating Condition of EUT

4.2.6.1 Turn on the power.

4.2.6.2 After that, let the EUT work in test Working and measure it.

4.2.7.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120kHz.

The frequency range from 30MHz to 1000MHz is investigated.

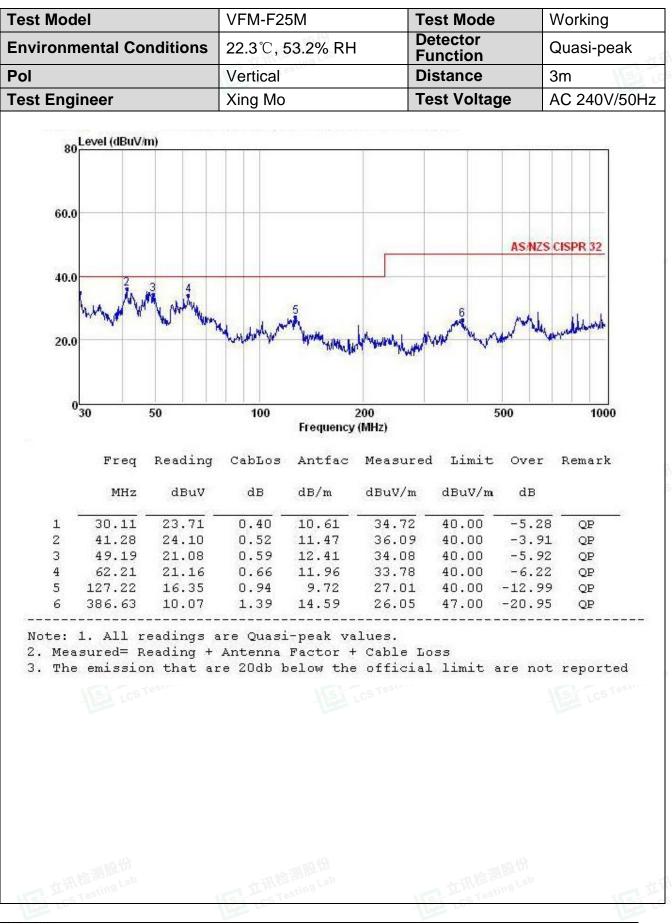
4.2.8.Test Results

PASS.

All the scanning waveform is in next page.



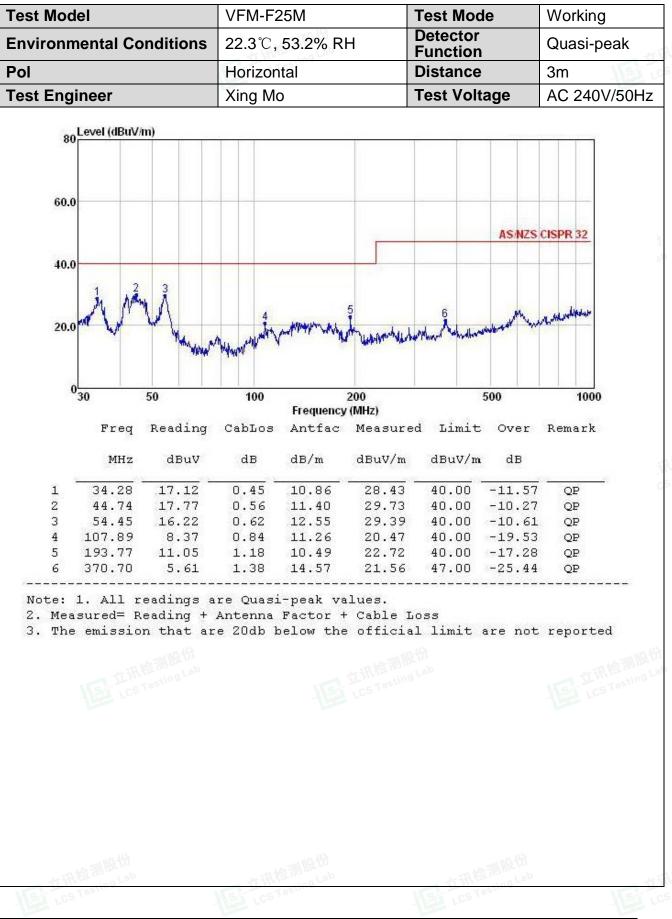








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5. PHOTOGRAPHS OF TEST SETUP



Photo of Power Line Conducted Measurement



Photo of Radiated emission Measurement





6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT













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Fig. 4







Fig. 6







Fig. 7





民主用检测展

Fig. 8





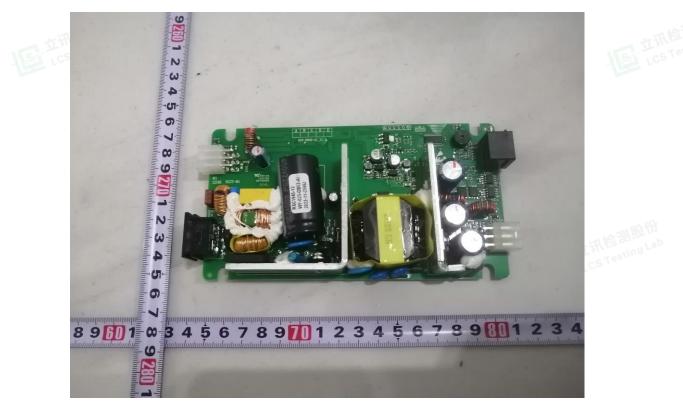


Fig. 9

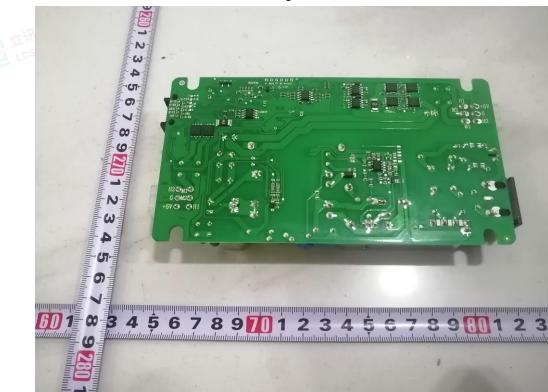


Fig. 10

--THE END OF TEST REPORT------



Shenzhen LCS Compliance Testing Laboratory Ltd. Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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