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TEST REPORT

Report No.: **CTC20221152E**


Applicant.....: **Shenzhen Fabulux Technology Co.,Ltd**

Address.....: Factory 1201, No.14 of Xiawei Industrial Zone, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, China

Manufacturer.....: Shenzhen Fabulux Technology Co.,Ltd

Address.....: Factory 1201, No.14 of Xiawei Industrial Zone, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, China

Product Name.....: **LED DISPLAY**

Trade Mark.....: 

Model/Type reference.....: PT5.7

Listed Model(s): PT6.67, PT8, PT10, PT Sport5.7, PT Sport6.67, PT Sport8, PT Sport10

Standard.....: **J55032 (H29)**

Date of receipt of test sample...: Aug. 05, 2022

Date of testing.....: Aug. 05, 2022 to Aug. 08, 2022

Date of issue.....: Sep. 22, 2022

Result.....: **PASS**

Compiled by:
(Printed name+signature) Carl Wu 

Supervised by:
(Printed name+signature) Eric Zhang 

Approved by:
(Printed name+signature) Totti Zhao 



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1 TEST SUMMARY

1.1 Test standards

The tests were performed according to following standards:

[J55032 \(H29\)](#)–Electromagnetic compatibility of multimedia equipment–Emission Requirements

1.2 Report version

| Revised No. | Date of issue | Description |
|-------------|---------------|-------------|
| 01 | Sep. 22, 2022 | Original |
| | | |
| | | |

1.3 Test description

Test procedures according to the technical standards:

| Standard | Test Item | Class | Result |
|--------------|--------------------------|---------|--------|
| J55032 (H29) | Conducted Emissions Test | Class A | Pass |
| | Radiated Emission Test | Class A | Pass |

Note: The measurement uncertainty is not included in the test result.



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1.4 Test facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. 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.

Below is the best measurement capability for CTC Laboratories, Inc.

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| Test | Measurement Frequency Range | U (dB) | NOTE |
|--------------------|-----------------------------|--------|-------------------|
| Conducted Emission | 9kHz ~ 30MHz | 3.08 | Main Power Port |
| Conducted Emission | 150kHz ~ 30MHz | 4.26 | Telecommunication |
| Power disturbance | 30MHz ~ 300MHz | 2.38 | Clamp |
| Conducted Emission | 30MHz ~ 2150MHz | 4.2 | Antenna Port |
| Radiated Emission | 30MHz ~ 1000MHz | 4.51 | 3m chamber 2 |
| Radiated Emission | 1GHz ~ 18GHz | 5.84 | 3m chamber 2 |
| Radiated Emission | 30MHz ~ 1000MHz | 4.52 | 10m chamber |
| Radiated Emission | 30MHz ~ 1000MHz | 4.5 | 3m chamber 3 |
| Radiated Emission | 1GHz ~ 18GHz | 5.7 | 3m chamber 3 |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|--------------------|-----------|
| Normal Temperature | 15-35°C |
| Lative Humidity | 30-60% |
| Air Pressure | 86-106kPa |

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2 GENERAL INFORMATION

2.1 Client Information

| | |
|---------------|--|
| Applicant: | Shenzhen Fabulux Technology Co.,Ltd |
| Address: | Factory 1201, No.14 of Xiawei Industrial Zone, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, China |
| Manufacturer: | Shenzhen Fabulux Technology Co.,Ltd |
| Address: | Factory 1201, No.14 of Xiawei Industrial Zone, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, China |
| Factory: | Shenzhen Fabulux Technology Co.,Ltd |
| Address: | Factory 1201, No.14 of Xiawei Industrial Zone, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen, China |

2.2 General description of EUT

| | |
|----------------------|---|
| Product Name | LED DISPLAY |
| Trade Mark |  |
| Model/Type reference | PT5.7 |
| Listed Model(s) | PT6.67, PT8, PT10, PT Sport5.7, PT Sport6.67, PT Sport8, PT Sport10 |
| Model Difference | The lamp spacing and the number of lamp beads are different, and the others are the same. |
| Product Description | Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device(Class A). More details of EUT technical specification, please refer to the User's Manual. |
| Power Source | Input: 100-240VAC, 50/60Hz,16A (MAX) Output: 100-240VAC, 50/60Hz,10A (MAX) |
| Sample ID | CTC220530-018-1-S0001 |
| Remark | The maximum operating frequency of EUT is 144MHz. |

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2.3 Accessory equipment information

| Equipment Information | | | |
|------------------------|---------------|--------------|--------------|
| Name | Model | S/N | Manufacturer |
| LED Display Controller | MCTRL300 | / | / |
| Laptop | T420 | / | Lenovo |
| Cable Information | | | |
| Name | Shielded Type | Ferrite Core | Length |
| AC power cable | Unshielded | NO | 200cm |
| Network cable | Unshielded | NO | 200cm |

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”.



2.4 Description of test modes

As the function of the EUT, test mode selected to test as below to conform this standard.

| Test mode | Description | Test Voltage |
|-----------|--------------|--------------|
| 1 | White screen | AC 100V/50Hz |
| 2 | Color bar | AC 100V/50Hz |

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report.

| Test item | Test mode |
|----------------------------|-----------|
| Conducted emission | 1 |
| Radiated emission Below 1G | 1 |
| Radiated emission Above 1G | 1 |

Note: "N/A" is no application

2.5 Measurement instruments list

| Conducted Emission | | | | | |
|-------------------------------------|--------------------------|--------------|------------|----------------|------------------|
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Calibrated until |
| <input checked="" type="checkbox"/> | LISN | R&S | ENV216 | 101112 | Dec. 23, 2022 |
| | LISN | R&S | ENV216 | 101113 | Dec. 23, 2022 |
| <input checked="" type="checkbox"/> | EMI Test Receiver | R&S | ESCS30 | 100353 | Dec. 23, 2022 |
| | ISN CAT6 | Schwarzbeck | NTFM 8158 | CAT6-8158-0046 | Dec. 23, 2022 |
| | ISN CAT5 | Schwarzbeck | NTFM 8158 | CAT5-8158-0046 | Dec. 23, 2022 |
| Radiated Emission | | | | | |
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Calibrated until |
| <input checked="" type="checkbox"/> | Trilog-Broadband Antenna | Schwarzbeck | VULB 9168 | 9168-1013 | Jan. 12, 2023 |
| <input checked="" type="checkbox"/> | Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-647 | Dec. 23, 2022 |
| | Spectrum Analyzer | R&S | FSU26 | 100105 | Dec. 23, 2022 |
| | Spectrum Analyzer | R&S | FSV40-N | 101331 | Mar. 15, 2023 |
| <input checked="" type="checkbox"/> | Pre-Amplifier | SONOMA | 310 | 186194 | Dec. 23, 2022 |
| <input checked="" type="checkbox"/> | Low Noise Pre-Amplifier | EMCI | EMC051835 | 980075 | Dec. 23, 2022 |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESCI7 | 100967 | Dec. 23, 2022 |
| <input checked="" type="checkbox"/> | 3m chamber 2 | Frankonia | EE025 | / | Oct. 23, 2024 |

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3 EMC EMISSION TEST

3.1 Conducted emission measurement

LIMIT

Please refer to J55032 (H29) Annex A Table A.8 to Table A.13.

AC 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 * |
| 0.5 - 5 | 73.00 | 60.00 | 56.00 | 46.00 |
| 5 - 30 | 73.00 | 60.00 | 60.00 | 50.00 |

Telecommunication Port Conducted Emission (Frequency Range 150kHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|----------|----------------|----------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 97 - 87* | 84 - 74* | 84 - 74* | 74 - 64* |
| 0.5 - 30 | 87 | 74 | 74 | 64 |

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.

TEST PROCEDURE

- a. The EUT was placed 0.8 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.
- 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

TEST MODE

Please refer to the Clause 2.3.

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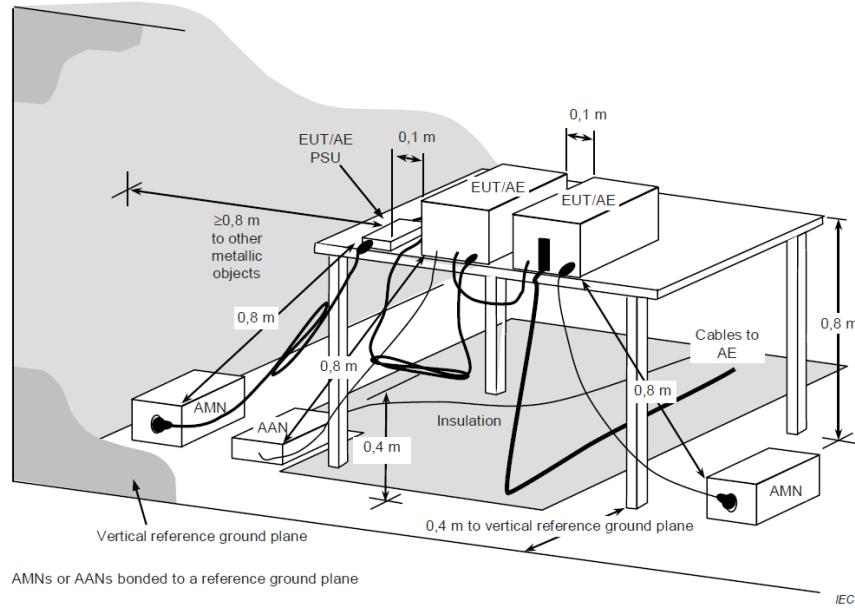


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TEST SETUP

A) For AC mains power ports and asymmetric mode conducted emissions.



The 0,8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be ≥0,8 m.

Environmental conditions

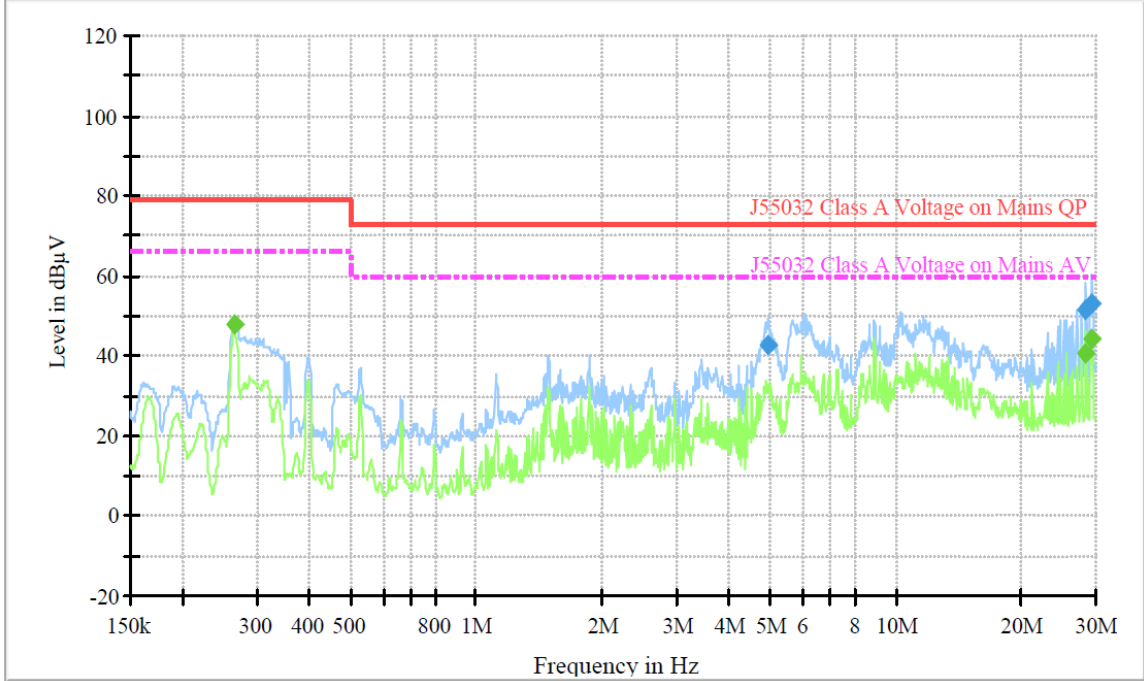
| | | | | | |
|---------------------|-------|------------------|------|---------------|---------|
| Normal Temperature: | 25 °C | Lative Humidity: | 47 % | Air Pressure: | 101 kPa |
|---------------------|-------|------------------|------|---------------|---------|





TEST RESULTS

| | |
|-----------|--------|
| Test Mode | Mode 1 |
| Phase | L |



Final Measurement Detector 1

| Frequency (MHz) | QuasiPeak (dB µ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) | Comment |
|-----------------|--------------------|-----------------|-----------------|--------|------|------------|-------------|----------------|---------|
| 4.976800 | 42.5 | 1000.00 | 9.000 | On | L1 | 10.0 | 30.5 | 73.0 | |
| 28.443570 | 51.4 | 1000.00 | 9.000 | On | L1 | 10.0 | 21.6 | 73.0 | |
| 29.371550 | 53.0 | 1000.00 | 9.000 | On | L1 | 10.0 | 20.0 | 73.0 | |

Final Measurement Detector 2

| Frequency (MHz) | Average (dB µ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) | Comment |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|----------------|---------|
| 0.264410 | 47.8 | 1000.00 | 9.000 | On | L1 | 10.0 | 18.2 | 66.0 | |
| 28.448070 | 40.5 | 1000.00 | 9.000 | On | L1 | 10.0 | 19.5 | 60.0 | |
| 29.371550 | 44.0 | 1000.00 | 9.000 | On | L1 | 10.0 | 16.0 | 60.0 | |

Note:

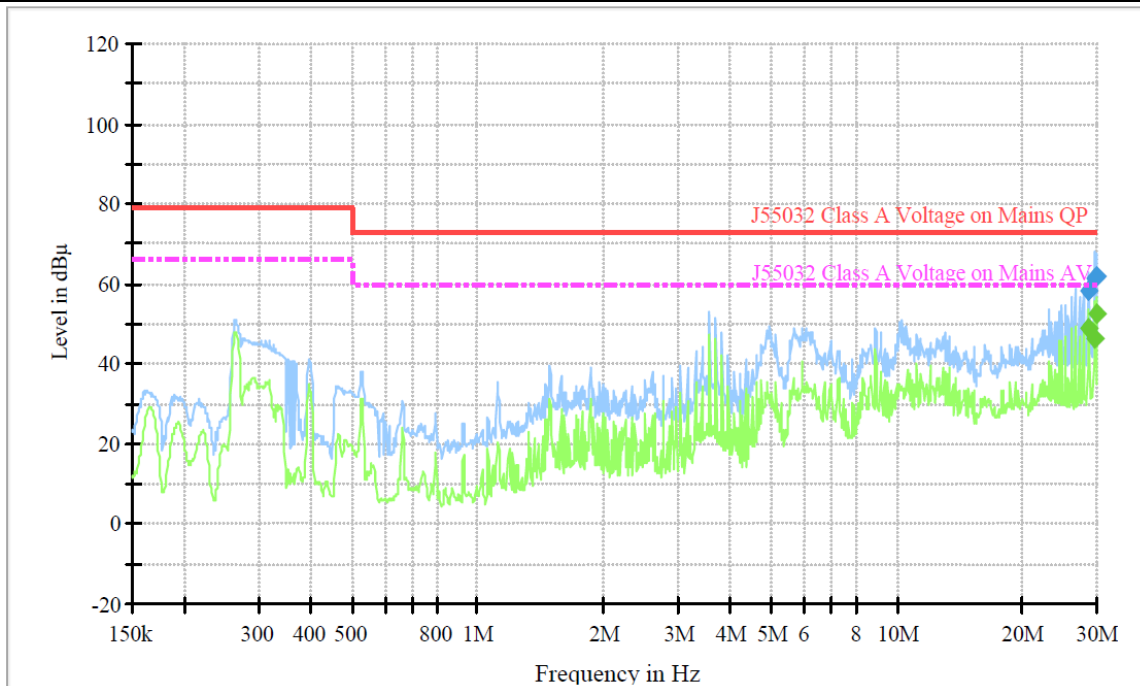
Factor = Insertion loss of LISN + Cable Loss

Limit = Limit stated in standard

Margin = Limit (dBµV) –Result (dBµV)



| | |
|-----------|--------|
| Test Mode | Mode 1 |
| Phase | N |



Final Measurement Detector

| Frequency (MHz) | QuasiPeak (dB µ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) | Comment |
|-----------------|--------------------|-----------------|-----------------|--------|------|------------|-------------|----------------|---------|
| 28.804420 | 58.5 | 1000.00 | 9.000 | On | N | 9.9 | 14.5 | 73.0 | |
| 29.725530 | 61.7 | 1000.00 | 9.000 | On | N | 9.8 | 11.3 | 73.0 | |
| 29.986500 | 62.1 | 1000.00 | 9.000 | On | N | 9.8 | 10.9 | 73.0 | |

Final Measurement Detector 2

| Frequency (MHz) | Average (dB µ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) | Comment |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|----------------|---------|
| 28.671680 | 48.7 | 1000.00 | 9.000 | On | N | 9.9 | 11.3 | 60.0 | |
| 29.730030 | 46.5 | 1000.00 | 9.000 | On | N | 9.8 | 13.5 | 60.0 | |
| 29.991000 | 52.4 | 1000.00 | 9.000 | On | N | 9.8 | 7.6 | 60.0 | |

Note:

Factor = Insertion loss of LISN + Cable Loss

Limit = Limit stated in standard

Margin = Limit (dBuV) –Result (dBuV)



3.2 Radiated emission measurement

LIMIT

Please refer to J55032 (H29) Annex A Table A.2 to Table A.7.

| FREQUENCY (MHz) | Class A dBuV/m | | Class B dBuV/m | |
|-----------------|----------------|---------|----------------|---------|
| | (at 10m) | (at 3m) | (at 10m) | (at 3m) |
| 30 – 230 | 40 | 50 | 30 | 40 |
| 230 – 1000 | 47 | 57 | 37 | 47 |

| FREQUENCY (MHz) | Class A (at 3m) dBuV/m | | Class B (at 3m) dBuV/m | |
|-----------------|------------------------|---------|------------------------|---------|
| | Peak | Average | Peak | Average |
| 1000 - 3000 | 76 | 56 | 70 | 50 |
| 3000 - 6000 | 80 | 60 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to as following: J55032 (H29)
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

TEST MODE

Please refer to the Clause 2.3.

TEST PROCEDURE

- a. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- b. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- c. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- d. Use the following spectrum analyzer settings
Span shall wide enough to fully capture the emission being measured;
 - 1) Below 1GHz, RBW=120kHz, VBW=300kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - 2) If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - 3) Above 1GHz, RBW=1MHz, VBW=3MHz
- e. The maximum operating frequency inside the EUT is 144MHz.

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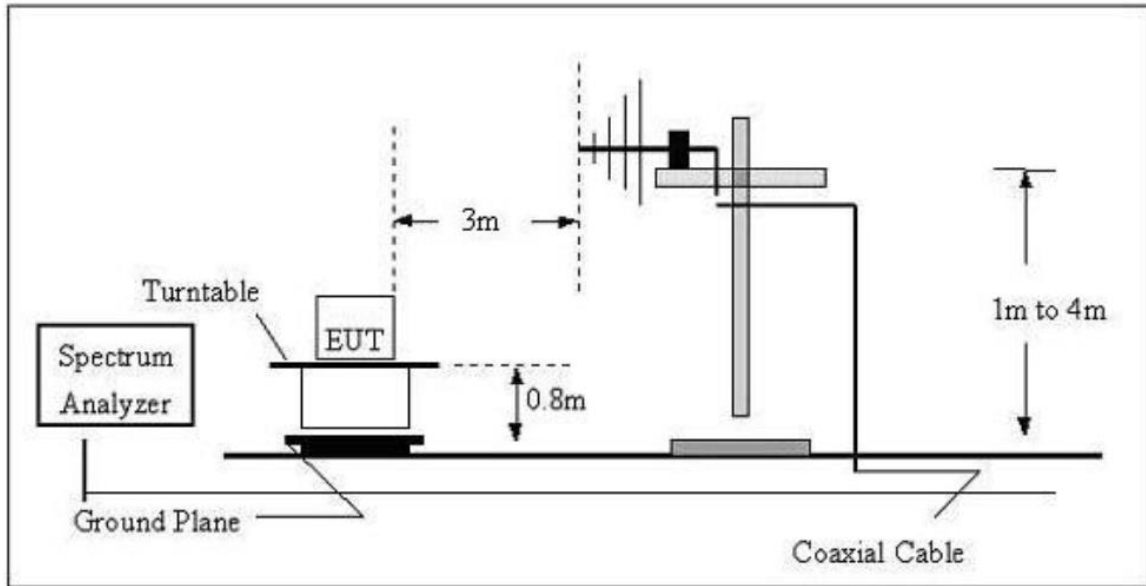
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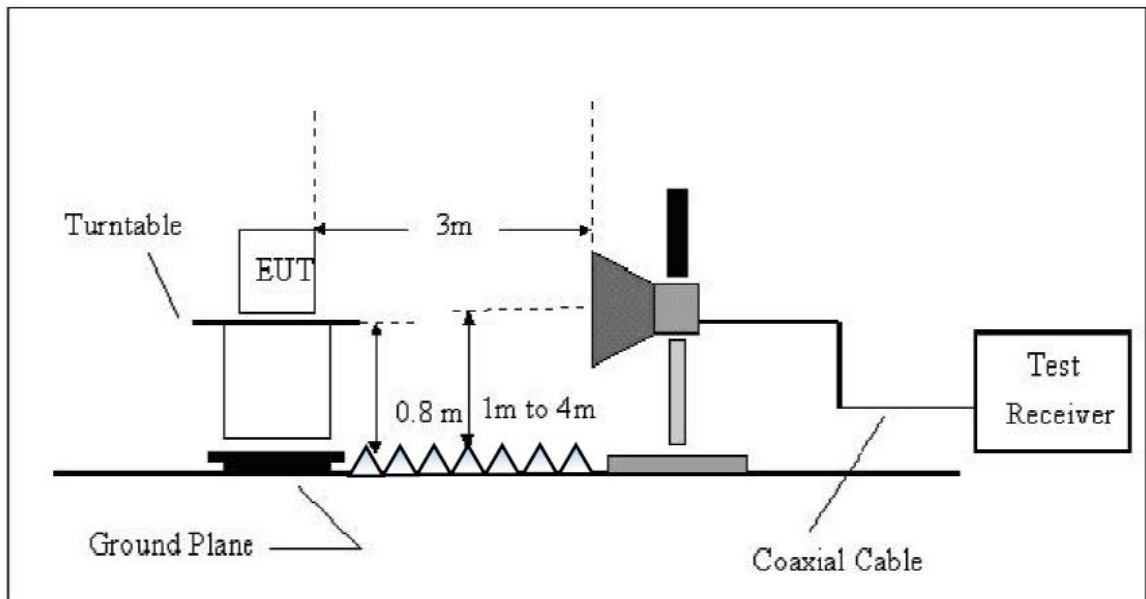
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TEST SETUP

A. Radiated Emission test Set-up Frequency Below 1 GHz.



B. Radiated Emission test Set-up Frequency Above 1 GHz.



Environmental conditions

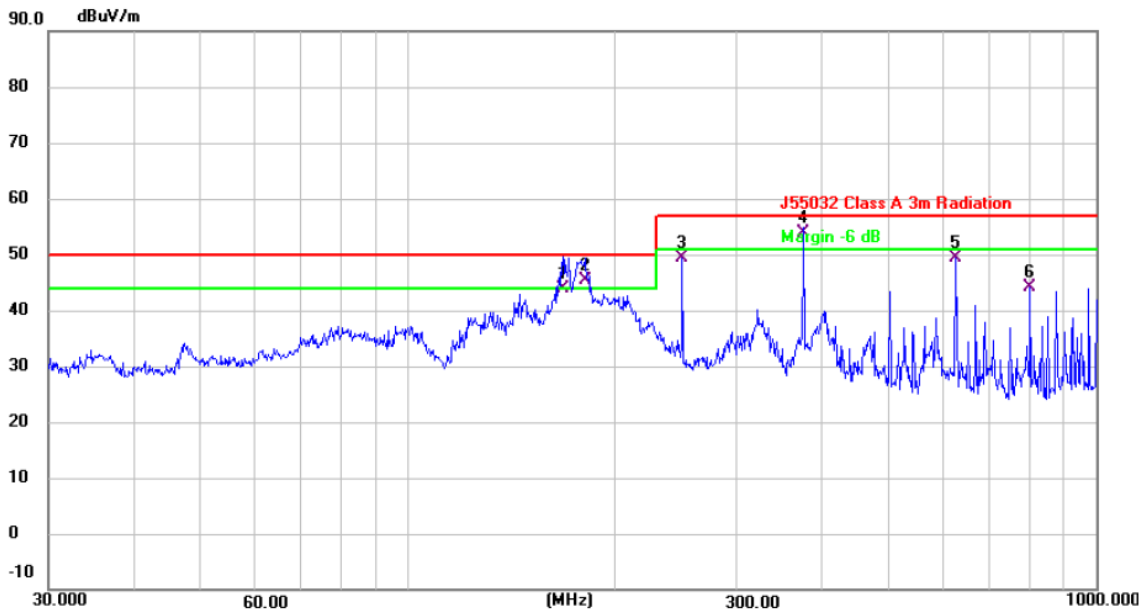
| | | | | | |
|---------------------|-------|------------------|------|---------------|---------|
| Normal Temperature: | 24 °C | Lative Humidity: | 46 % | Air Pressure: | 101 kPa |
|---------------------|-------|------------------|------|---------------|---------|



TEST RESULTS

(1) Below 1 GHz

| | |
|--------------|------------|
| Test Mode | Mode 1 |
| Polarization | Horizontal |



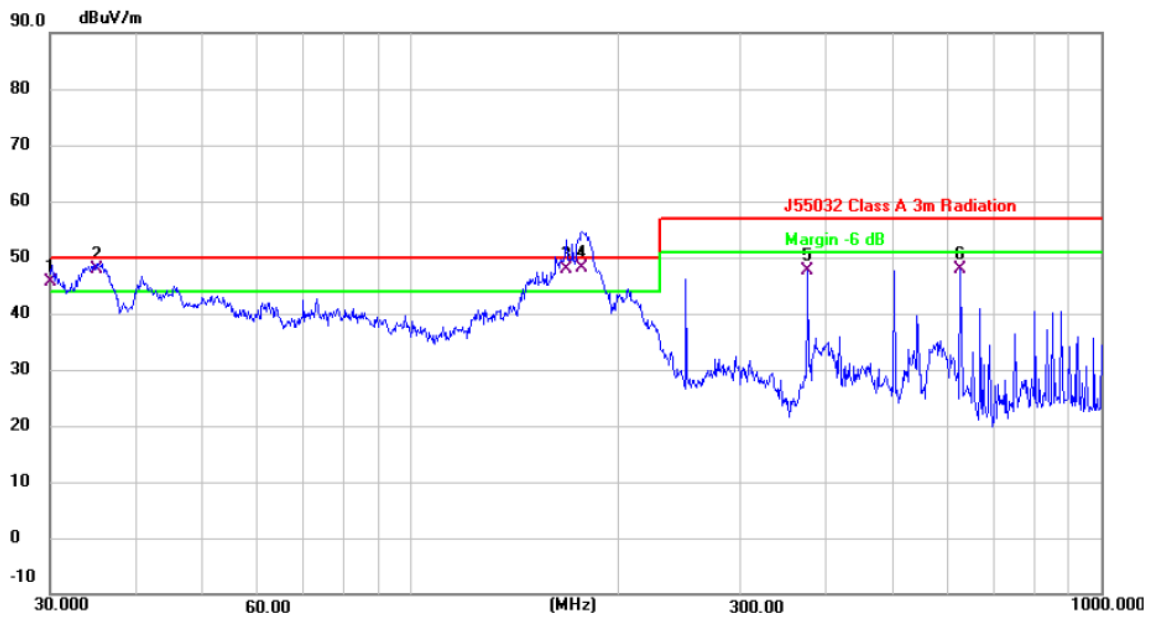
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 167.8243 | 62.28 | -18.28 | 44.00 | 50.00 | -6.00 | QP |
| 2 ! | 180.6488 | 64.63 | -19.33 | 45.30 | 50.00 | -4.70 | QP |
| 3 | 250.3012 | 68.54 | -19.09 | 49.45 | 57.00 | -7.55 | QP |
| 4 * | 375.9385 | 70.07 | -16.17 | 53.90 | 57.00 | -3.10 | QP |
| 5 | 625.0780 | 59.86 | -10.45 | 49.41 | 57.00 | -7.59 | QP |
| 6 | 801.7863 | 51.63 | -7.53 | 44.10 | 57.00 | -12.90 | QP |

Remarks:

- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-amplifier Factor
- Margin value = Level - Limit value



| | |
|--------------|----------|
| Test Mode | Mode 1 |
| Polarization | Vertical |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 ! | 30.0000 | 63.84 | -18.24 | 45.60 | 50.00 | -4.40 | QP |
| 2 ! | 35.1278 | 65.94 | -18.04 | 47.90 | 50.00 | -2.10 | QP |
| 3 ! | 167.8240 | 66.28 | -18.28 | 48.00 | 50.00 | -2.00 | QP |
| 4 * | 176.8878 | 67.21 | -19.01 | 48.20 | 50.00 | -1.80 | QP |
| 5 | 375.9385 | 63.86 | -16.17 | 47.69 | 57.00 | -9.31 | QP |
| 6 | 625.0780 | 58.45 | -10.45 | 48.00 | 57.00 | -9.00 | QP |

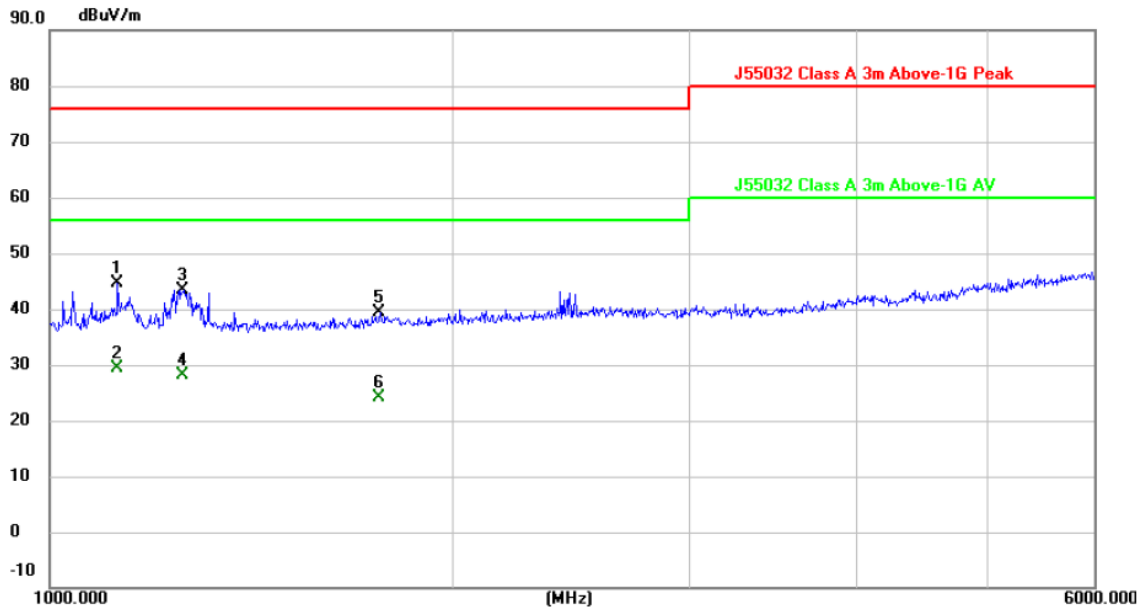
Remarks:

- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-amplifier Factor
- Margin value = Level - Limit value



(2) Above 1 GHz

| | |
|--------------|------------|
| Test Mode | Mode 1 |
| Polarization | Horizontal |



| No. | Frequency (MHz) | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 1123.517 | 57.66 | -13.05 | 44.61 | 76.00 | -31.39 | peak |
| 2 * | 1123.517 | 42.45 | -13.05 | 29.40 | 56.00 | -26.60 | AVG |
| 3 | 1257.776 | 56.00 | -12.51 | 43.49 | 76.00 | -32.51 | peak |
| 4 | 1257.776 | 40.67 | -12.51 | 28.16 | 56.00 | -27.84 | AVG |
| 5 | 1761.553 | 50.30 | -10.91 | 39.39 | 76.00 | -36.61 | peak |
| 6 | 1761.553 | 35.00 | -10.91 | 24.09 | 56.00 | -31.91 | AVG |

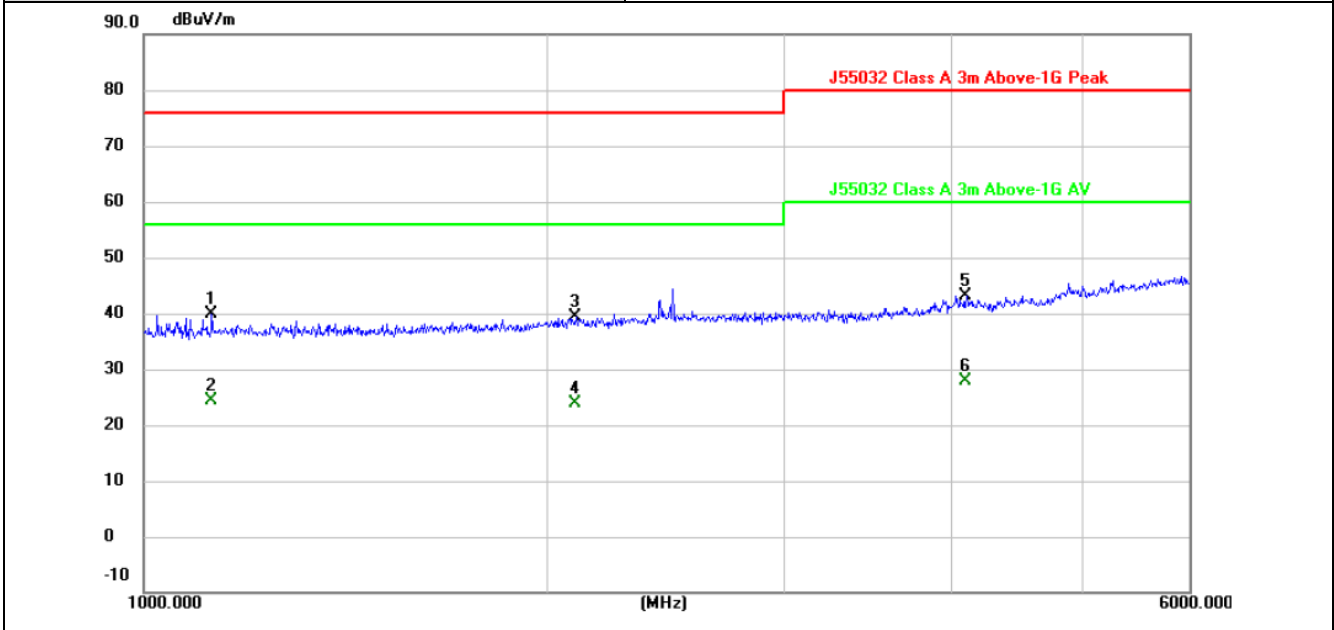
Remarks:

- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-amplifier Factor
- Margin value = Level - Limit value





| | |
|--------------|----------|
| Test Mode | Mode 1 |
| Polarization | Vertical |



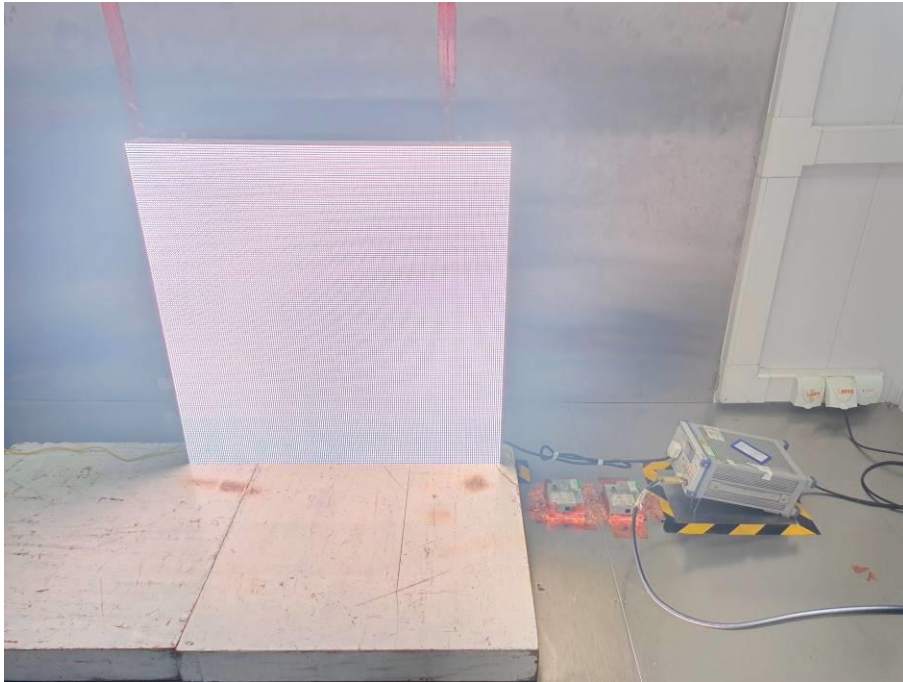
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 1123.517 | 52.85 | -13.05 | 39.80 | 76.00 | -36.20 | peak |
| 2 * | 1123.517 | 37.44 | -13.05 | 24.39 | 56.00 | -31.61 | AVG |
| 3 | 2099.687 | 48.34 | -8.97 | 39.37 | 76.00 | -36.63 | peak |
| 4 | 2099.687 | 32.78 | -8.97 | 23.81 | 56.00 | -32.19 | AVG |
| 5 | 4096.425 | 47.48 | -4.28 | 43.20 | 80.00 | -36.80 | peak |
| 6 | 4096.425 | 32.18 | -4.28 | 27.90 | 60.00 | -32.10 | AVG |

Remarks:

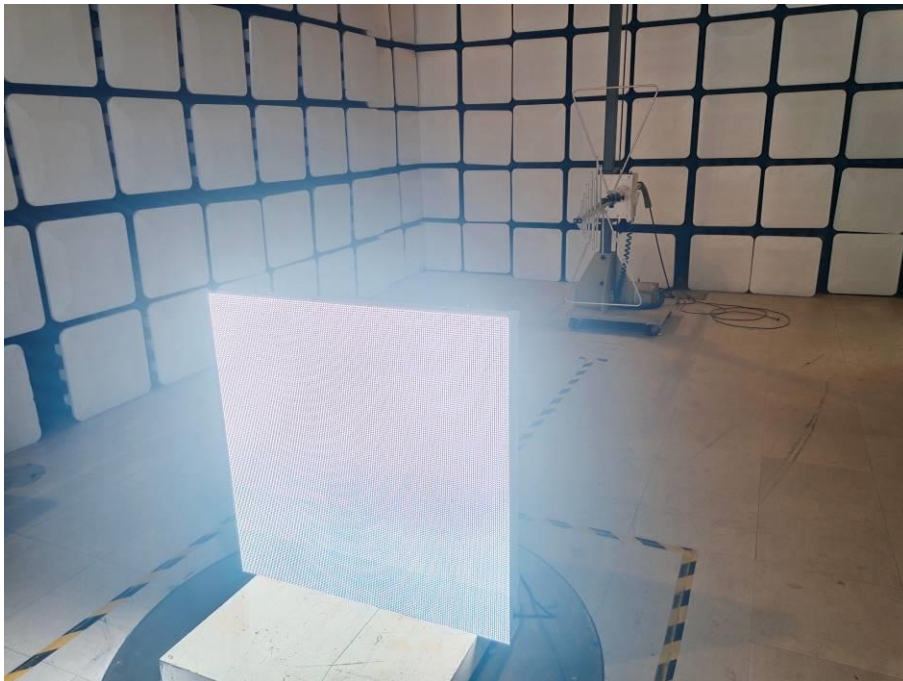
- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-amplifier Factor
- Margin value = Level - Limit value

4 EUT TEST PHOTO

Conducted Emission

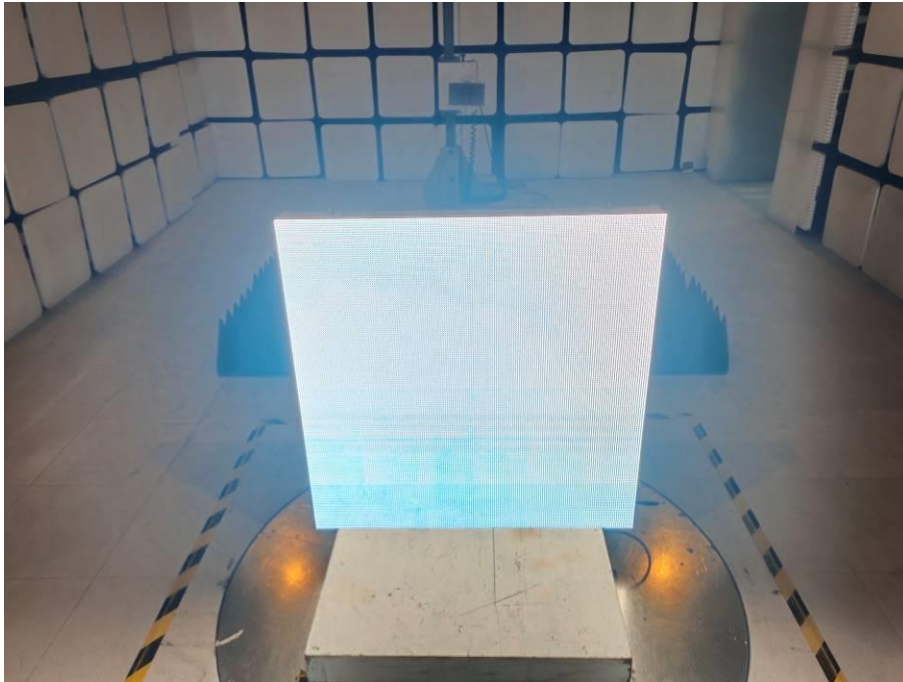


Radiated Emission Below 1G





Radiated Emission Above 1G



CTC Laboratories, Inc.

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5 PHOTOGRAPHS OF EUT

External Photographs





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Internal Photographs



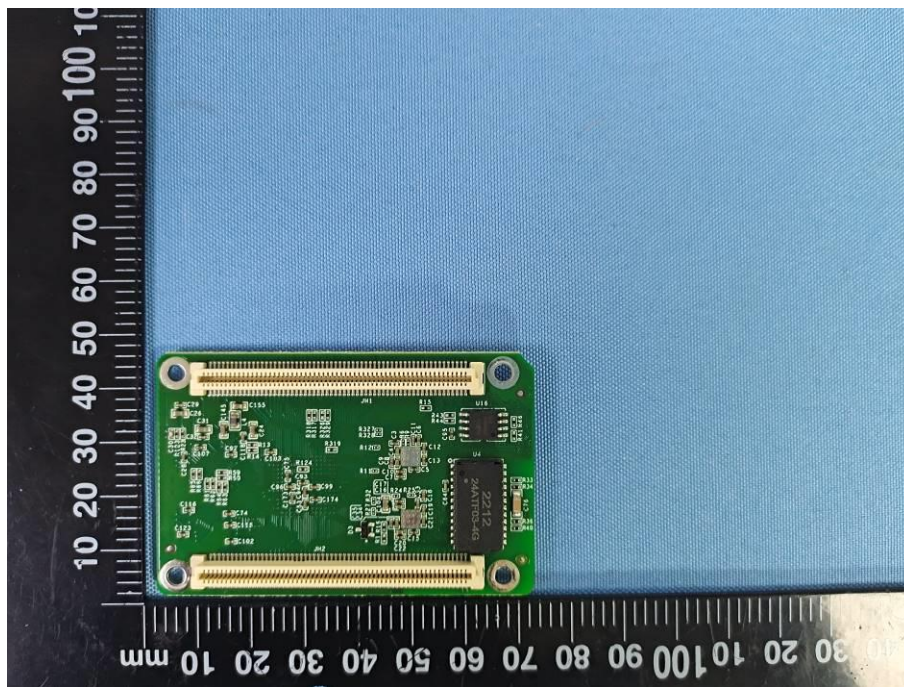
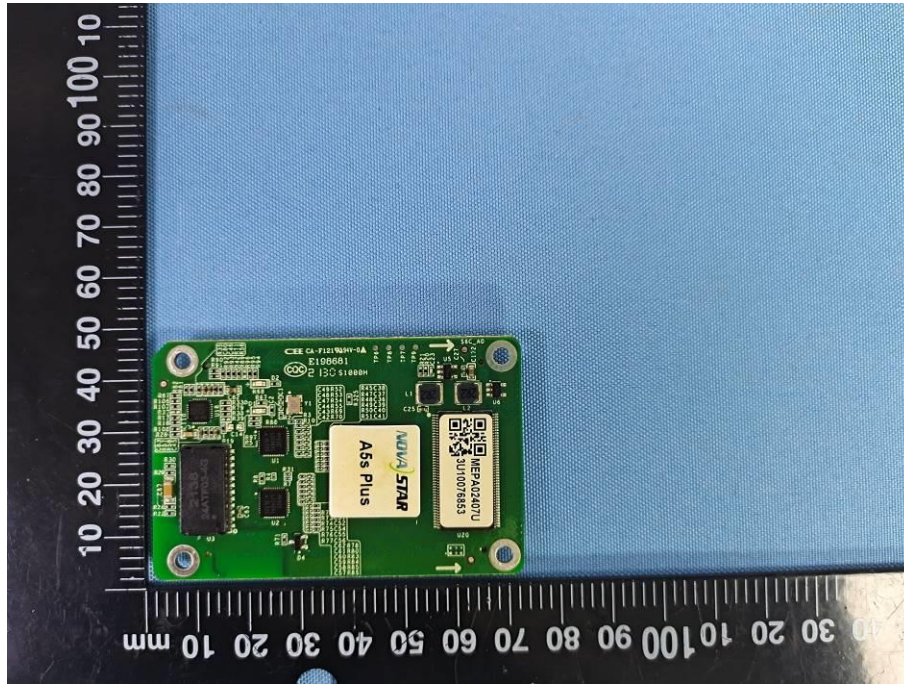


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*****THE END*****

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