

# TEST REPORT

Product Name : Portable general purpose luminaires  
LED desk lamp  
Model Number : DE25611H11  
FCC ID : 2AT2H-DE25611H11

Prepared for : Ningbo Chinyo Lighting Appliance Co., Ltd  
Address : No. 7, Ketai Road, Wangchun Industrial Zone Haishu  
District, Ningbo, Zhejiang Provincce, China

Prepared by : EMTEK (NINGBO) CO., LTD.  
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Report Number : ENB2204150137W00101R  
Date(s) of Tests : April 15, 2022 to May 09, 2022  
Date of Issue : May 11, 2022

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**TEST REPORT DESCRIPTION**

Applicant : Ningbo Chinyo Lighting Appliance Co., Ltd

Address : No. 7, Ketai Road, Wangchun Industrial Zone Haishu District, Ningbo, Zhejiang Province, China.

Manufacturer : Ningbo Chinyo Lighting Appliance Co., Ltd

Address : No. 7, Ketai Road, Wangchun Industrial Zone Haishu District, Ningbo, Zhejiang Province, China.

EUT : Portable general purpose luminaires LED desk lamp

Model Name : DE25611H11

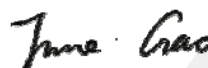
Trademark : N/A

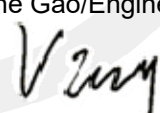
**We hereby certify that:**

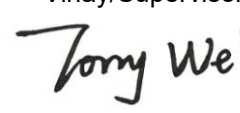
The above equipment was tested by EMTEK (NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test : April 15, 2022 to May 09, 2022

Prepared by :   
June Gao/Engineer

Reviewer :   
Vinay/Supervisor

Approved & Authorized Signer :   
Tony Wei/Manager



## Modified Information

| Version | Report No.           | Revision Data | Summary          |
|---------|----------------------|---------------|------------------|
| /       | ENB2204150137W00101R | /             | Original Version |



## 1. SUMMARY OF TEST RESULTS

| EMISSION                                         |                                                            |         |
|--------------------------------------------------|------------------------------------------------------------|---------|
| Description of Test Item                         | Standard & Limits                                          | Results |
| Conducted Emission                               | FCC Part 15, Subpart C- Section 15.207<br>ANSI C63.10-2013 | Pass    |
| Radiated Emission                                | FCC Part 15, Subpart C- Section 15.209<br>ANSI C63.10-2013 | Pass    |
| Note: N/A is an abbreviation for Not Applicable. |                                                            |         |



## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

|                        |                                                   |
|------------------------|---------------------------------------------------|
| Product:               | Portable general purpose luminaires LED desk lamp |
| Model Number:          | DE25611H11                                        |
| Sample Number:         | 1#                                                |
| Power Supply:          | DC 12V from adapter                               |
| Wireless specification | 5W/7.5W                                           |
| Modulation:            | Ask                                               |
| Maximum Power Rate:    | 65.97 dBuV/m                                      |
| Frequency Range:       | 110 kHz~205 KHz                                   |
| Antenna Type:          | Integral Antenna(Induction coil)                  |
| Antenna Gain:          | 0 dBi                                             |
| Operating Temperature  | 0°C ~ +50°C                                       |
| Date of Received:      | February 28, 2022                                 |

### 2.2. Input / Output Ports

| Port #                                                                                                                                                                                                                                          | Name          | Type* | Cable Max. >3m | Cable Shielded | Comments |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----------------|----------------|----------|
| 1                                                                                                                                                                                                                                               | DC Power Port | DC    | No             | N/A            | None     |
| * Note: For the purposes of the present document, the following symbols apply:<br>AC AC Power Port<br>DC DC Power Port<br>N/E Non-Electrical<br>I/O Signal Input or Output Port (Not Involved in Process Control)<br>TP Telecommunication Ports |               |       |                |                |          |

## 2.3. Independent Operation Modes

A 1. Wireless Charging(Full load)

## 2.4. Test Manner

| Test Items         | Test Voltage | Operation Modes |
|--------------------|--------------|-----------------|
| Conducted Emission | AC 120V/60Hz | Mode A.1        |
| Radiated Emission  | AC 120V/60Hz | Mode A.1        |

## 2.5. Description of Test Facility

Site Description  
EMC Lab.

**: Accredited by CNAS**

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

**Accredited by FCC**

Designation Number: CN1302

Test Firm Registration Number: 436491

**Accredited by A2LA**

The certificate is valid until May 31, 2023

**Accredited by Industry Canada**

The Conformity Assessment Body Identifier is CN0114

Name of Firm  
Site Location

: EMTEK (NINGBO) CO., LTD.

: 1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China.

## 2.6. Description of Support Device

| No. | Equipment     | Trade name | Model       | S/N | Power Cord |
|-----|---------------|------------|-------------|-----|------------|
| 1   | Wireless Load | /          | 5w/7.5w/10w | /   | /          |

## 2.7. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter                | Uncertainty            |
|--------------------------|------------------------|
| Radio Frequency          | $\pm 1 \times 10^{-5}$ |
| Conducted Emissions Test | $\pm 2.0$ dB           |
| Radiated Emission Test   | $\pm 2.0$ dB           |
| Occupied Bandwidth Test  | $\pm 1.0$ dB           |
| Temperature              | $\pm 0.5$ °C           |
| Humidity                 | $\pm 3$ %              |

Measurement Uncertainty for a level of Confidence of 95%

### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. Conducted Emission Test Equipment

| EQUIPMENT TYPE    | MFR                               | MODEL NUMBER | SERIAL NUMBER    | LAST CAL.     | Cal. Interval. |
|-------------------|-----------------------------------|--------------|------------------|---------------|----------------|
| Test Receiver     | Rohde & Schwarz                   | ESCI         | 101108           | July 08, 2021 | 1 Year         |
| L.I.S.N           | Rohde & Schwarz                   | ENV216       | 101193           | July 08, 2021 | 1 Year         |
| L.I.S.N           | Schwarzbeck                       | NSLK 8126    | 8126-462         | July 08, 2021 | 1 Year         |
| Pulse Limiter     | MTS-systemtechnik                 | IMP-136      | 2611115-001-0033 | July 08, 2021 | 1 Year         |
| RF Switching unit | Compliance Direction Systems Inc. | RSU-M2       | 38400            | July 08, 2021 | 1 Year         |

#### 3.2. For 3m Radiated Emission Measurement 9K-30M (3m chamber 1#)

| Equipment         | Manufacturer    | Model No.     | Serial No.   | Last Cal.     | Cal. Interval |
|-------------------|-----------------|---------------|--------------|---------------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESU           | 1302.6005.26 | July 08, 2021 | 1 Year        |
| Loop Antenna      | Schwarzbeck     | FMZB 1519     | 1519-012     | July 08, 2021 | 1 Year        |
| Cable             | /               | 3M SF104-26.5 | 295838/4     | July 08, 2021 | 1 Year        |
| Cable             | /               | 6M SF104-26.5 | 295840/4     | July 08, 2021 | 1 Year        |

#### 3.3. For 3m Radiated Emission Measurement 30M-1G (3m chamber 1#)

| Equipment         | Manufacturer    | Model No.     | Serial No.       | Last Cal.     | Cal. Interval |
|-------------------|-----------------|---------------|------------------|---------------|---------------|
| Spectrum Analyzer | Rohde & Schwarz | ESCI          | 101107           | July 08, 2021 | 1 Year        |
| EMI Test Receiver | Rohde & Schwarz | ESCI          | 101107           | July 08, 2021 | 1 Year        |
| Pre-Amplifier     | CD              | PAP-0203      | 22015            | July 08, 2021 | 1 Year        |
| Bilog Antenna     | Schwarzbeck     | VULB9163      | 9163-467         | July 12, 2020 | 2 Year        |
| Cable             | HUBER + SUHNER  | CBL3-NN-0.5 M | 101216-2140500-2 | July 08, 2021 | 1 Year        |
| Cable             | HUBER + SUHNER  | CBL3-NN-3.0 M | 101216-2143000-2 | July 08, 2021 | 1 Year        |
| Cable             | HUBER + SUHNER  | CBL3-NN-9.0 M | 101216-2149000   | July 08, 2021 | 1 Year        |

#### 3.4. 20dB Bandwidth

| Equipment         | Manufacturer | Model No. | Serial No. | Last Cal.      | Cal. Interval |
|-------------------|--------------|-----------|------------|----------------|---------------|
| Spectrum Analyzer | Agilent      | E4407B    | MY45107013 | April 08, 2022 | 1 Year        |

## 4. 20DB BANDWIDTH

### 4.1. Test Procedure

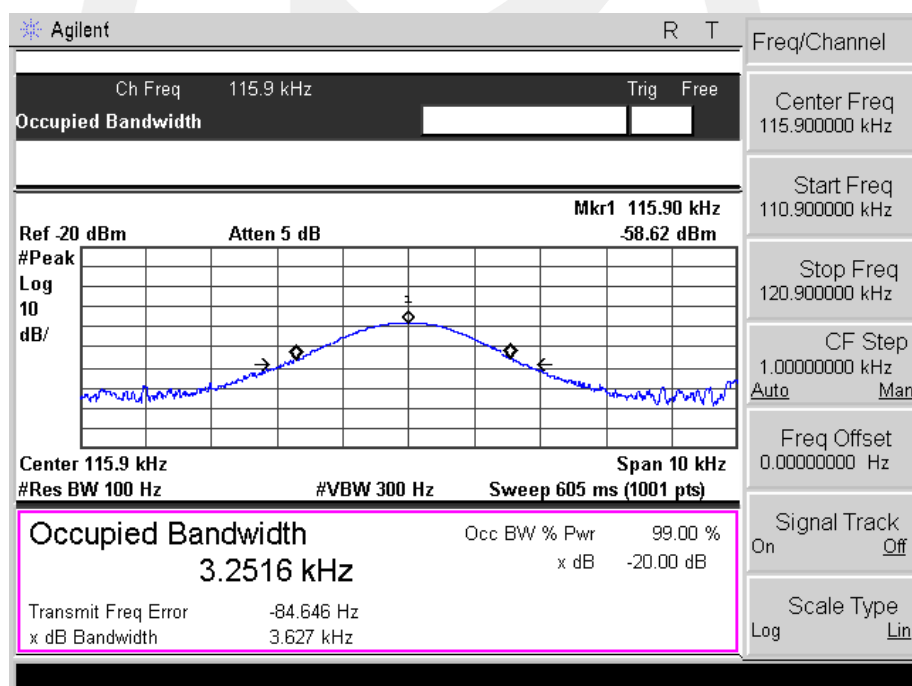
Set to the maximum power setting and enable the EUT transmit continuously  
Set RBW =1%-5%OBW  
Set the video bandwidth (VBW) =3\*RBW  
Set Span= 10 kHz  
Set Detector = Peak.  
Set Trace mode = max hold.  
Set Sweep = auto couple.  
Measure and record the results in the test report.

### 4.2. Test Results

Temperature: 24℃  
Humidity: 53 %

Test Date: April 30, 2022  
Test By: XSJ

20dB Band=3.627 kHz





All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

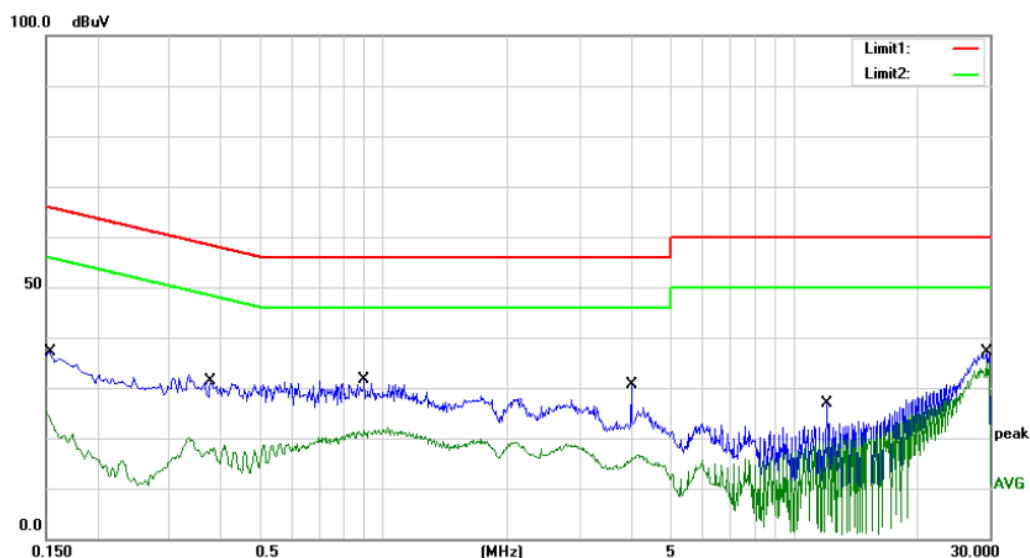
Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

## 5.4.Measuring Results

**Pass.**





Site site #1

Phase: L1

Temperature: 24

Limit: (CE)FCC PART 15.207\_QP

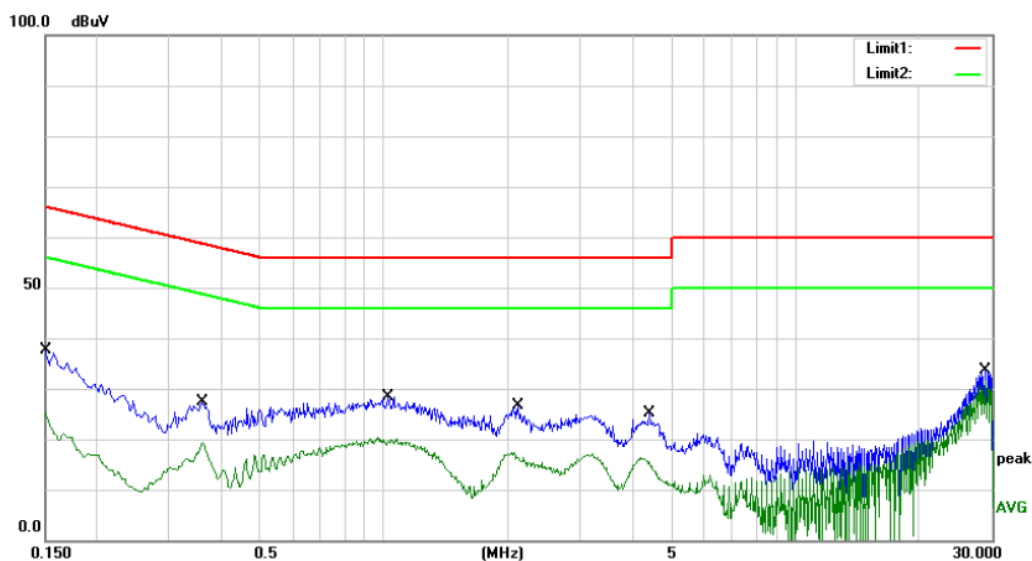
Power: AC 120V/60Hz

Humidity: 50 %

Mode: Full Load

Note:

| No. Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|---------|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|         | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1       | 0.1524  | 26.90         | 10.10          | 37.00       | 65.87 | -28.87 | QP       |         |
| 2       | 0.1524  | 14.10         | 10.10          | 24.20       | 55.87 | -31.67 | AVG      |         |
| 3       | 0.3780  | 21.10         | 10.08          | 31.18       | 58.32 | -27.14 | QP       |         |
| 4       | 0.3780  | 7.70          | 10.08          | 17.78       | 48.32 | -30.54 | AVG      |         |
| 5       | 0.8980  | 21.50         | 10.01          | 31.51       | 56.00 | -24.49 | QP       |         |
| 6       | 0.8980  | 10.90         | 10.01          | 20.91       | 46.00 | -25.09 | AVG      |         |
| 7       | 4.0140  | 20.30         | 10.27          | 30.57       | 56.00 | -25.43 | QP       |         |
| 8       | 4.0140  | 5.60          | 10.27          | 15.87       | 46.00 | -30.13 | AVG      |         |
| 9       | 11.9980 | 16.40         | 10.51          | 26.91       | 60.00 | -33.09 | QP       |         |
| 10      | 11.9980 | 7.60          | 10.51          | 18.11       | 50.00 | -31.89 | AVG      |         |
| 11      | 29.5020 | 26.20         | 10.81          | 37.01       | 60.00 | -22.99 | QP       |         |
| 12 *    | 29.5020 | 21.40         | 10.81          | 32.21       | 50.00 | -17.79 | AVG      |         |



Site site #1  
 Limit: (CE)FCC PART 15.207\_QP  
 Mode: Full Load  
 Note:

Phase: **N**  
 Power: AC 120V/60Hz  
 Temperature: 24  
 Humidity: 50 %

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1500  | 27.60         | 10.07          | 37.67       | 66.00 | -28.33 | QP       |         |
| 2   |     | 0.1500  | 15.40         | 10.07          | 25.47       | 56.00 | -30.53 | AVG      |         |
| 3   |     | 0.3620  | 17.20         | 10.10          | 27.30       | 58.68 | -31.38 | QP       |         |
| 4   |     | 0.3620  | 9.20          | 10.10          | 19.30       | 48.68 | -29.38 | AVG      |         |
| 5   |     | 1.0220  | 18.40         | 9.86           | 28.26       | 56.00 | -27.74 | QP       |         |
| 6   |     | 1.0220  | 9.80          | 9.86           | 19.66       | 46.00 | -26.34 | AVG      |         |
| 7   |     | 2.1140  | 16.50         | 9.93           | 26.43       | 56.00 | -29.57 | QP       |         |
| 8   |     | 2.1140  | 6.40          | 9.93           | 16.33       | 46.00 | -29.67 | AVG      |         |
| 9   |     | 4.4100  | 15.00         | 10.23          | 25.23       | 56.00 | -30.77 | QP       |         |
| 10  |     | 4.4100  | 5.10          | 10.23          | 15.33       | 46.00 | -30.67 | AVG      |         |
| 11  |     | 28.8260 | 23.20         | 10.40          | 33.60       | 60.00 | -26.40 | QP       |         |
| 12  | *   | 28.8260 | 19.10         | 10.40          | 29.50       | 50.00 | -20.50 | AVG      |         |

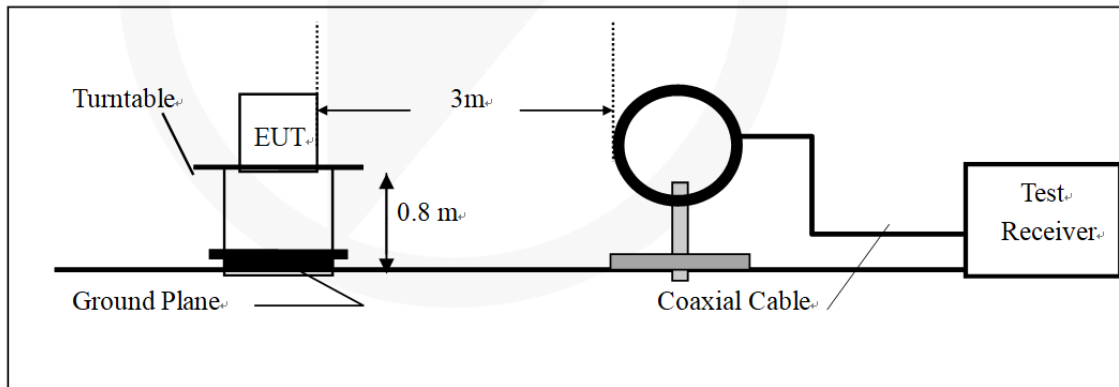
## 6. RADIATED EMISSION TEST

### 6.1.Measurement Procedure

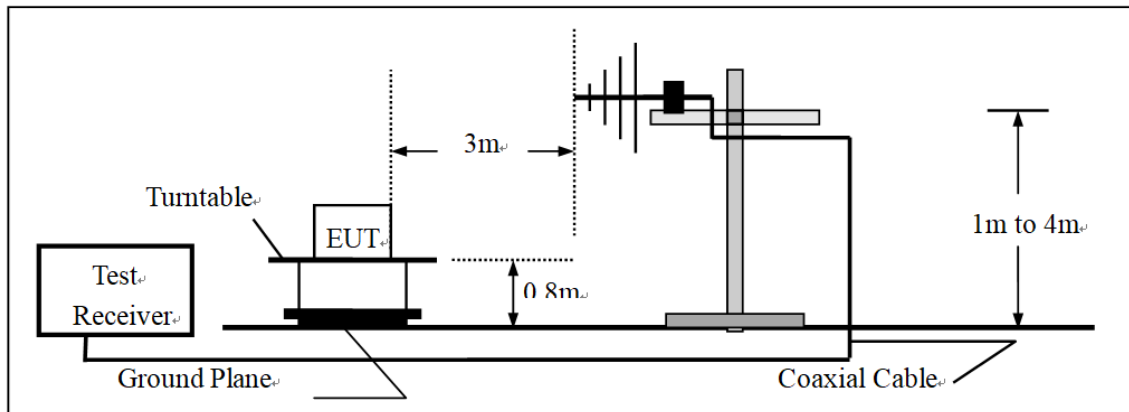
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW=200Hz for 9KHz to 150KHz,  
RBW=9kHz for 150KHz to 30MHz,  
RBW=120KHz for 30MHz to 1GHz  
VBW  $\geq 3 \times$  RBW  
Sweep = auto  
Detector function = QP  
Trace = max hold

### 6.2.Test SET-UP (Block Diagram of Configuration)

(A)Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



### 6.3. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

| FCC Part 15.209 |                           |      |                                                                 |                         |
|-----------------|---------------------------|------|-----------------------------------------------------------------|-------------------------|
| Frequency (MHz) | Field Strength Limitation |      | Field Strength Limitation Frequency tion at 3m Measurement Dist |                         |
|                 | (uV/m)                    | Dist | (uV/m)                                                          | (dBuV/m)                |
| 0.009 – 0.490   | 2400 / F(KHz)             | 300m | 10000 * 2400/F(KHz)                                             | 20log 2400/F(KHz) + 80  |
| 0.490 – 1.705   | 24000 / F(KHz)            | 30m  | 100 * 24000/F(KHz)                                              | 20log 24000/F(KHz) + 40 |
| 1.705 – 30.00   | 30                        | 30m  | 100* 30                                                         | 20log 30 + 40           |
| 30.0 – 88.0     | 100                       | 3m   | 100                                                             | 20log 100               |
| 88.0 – 216.0    | 150                       | 3m   | 150                                                             | 20log 150               |
| 216.0 – 960.0   | 200                       | 3m   | 200                                                             | 20log 200               |
| Above 960.0     | 500                       | 3m   | 500                                                             | 20log 500               |

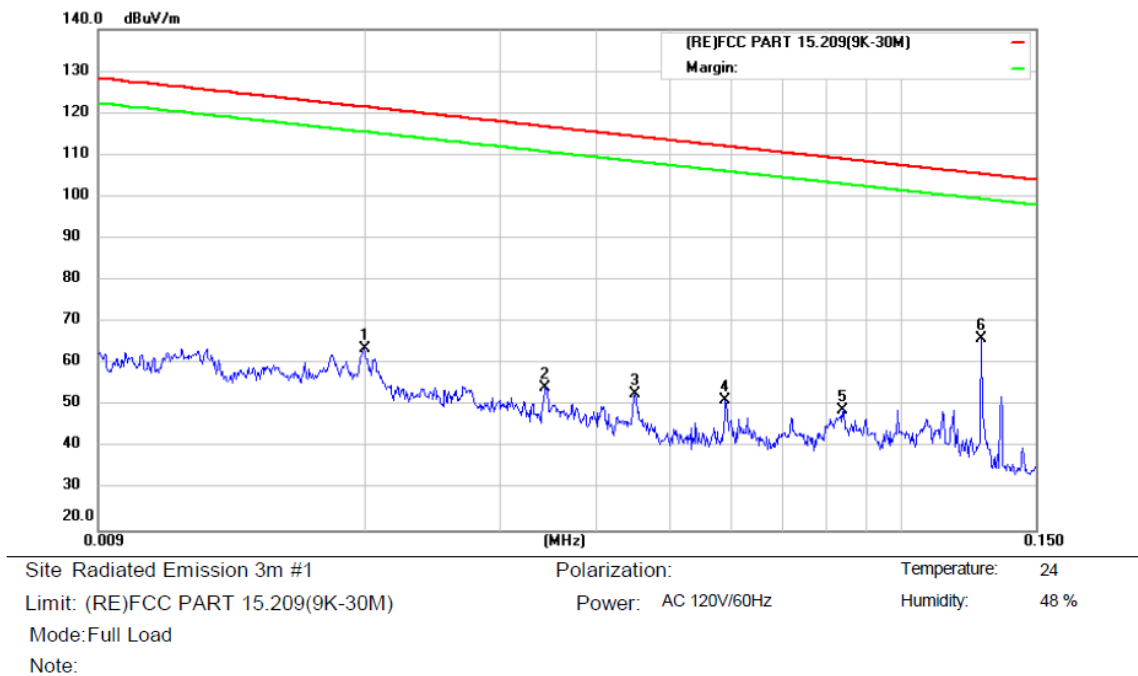
### 15.205 Restricted bands of operation

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 10.495-0.505      | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | (2)         |
| 13.36-13.41       |                     |               |             |

Remark: 1. Emission level in dBuV/m=20 log (uV/m)  
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.  
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

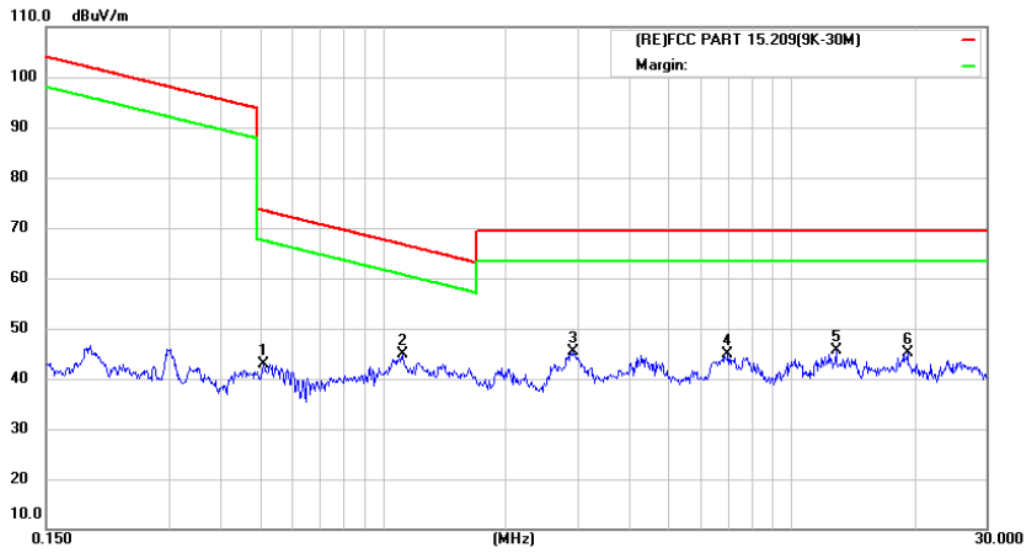
## 6.4.Measurement Result

9KHz-150KHz:



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 0.0200 | 42.95         | 20.59          | 63.54       | 121.41 | -57.87 | peak           |              |         |
| 2   |     | 0.0343 | 33.75         | 20.63          | 54.38       | 116.76 | -62.38 | peak           |              |         |
| 3   |     | 0.0449 | 32.07         | 20.74          | 52.81       | 114.43 | -61.62 | peak           |              |         |
| 4   |     | 0.0589 | 30.49         | 20.75          | 51.24       | 112.09 | -60.85 | peak           |              |         |
| 5   |     | 0.0840 | 28.13         | 20.69          | 48.82       | 109.02 | -60.20 | peak           |              |         |
| 6   | *   | 0.1274 | 45.61         | 20.36          | 65.97       | 105.43 | -39.46 | peak           |              |         |

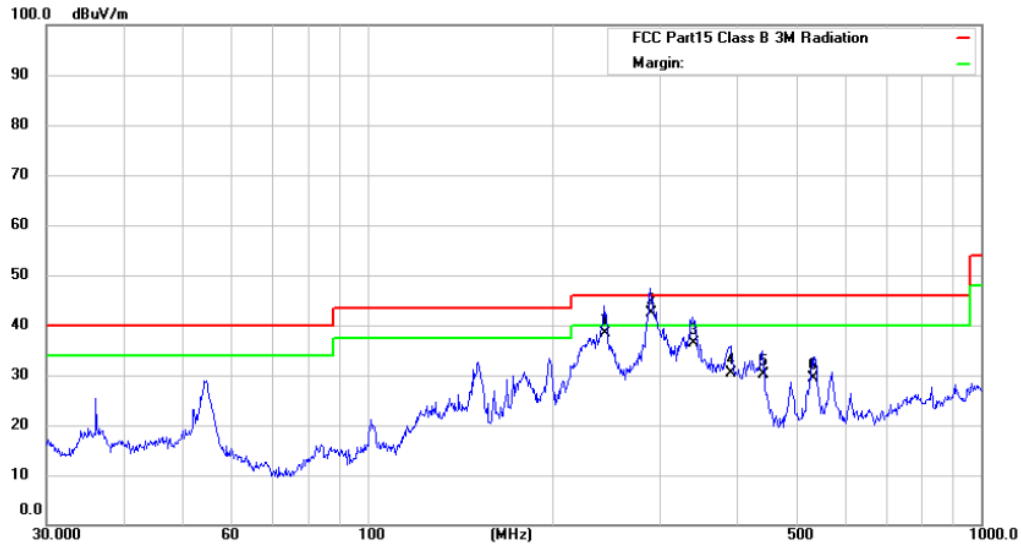
150KHz-30MHz:



Site Radiated Emission 3m #1 Polarization: Temperature: 24  
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 48 %  
Mode: Full Load  
Note:

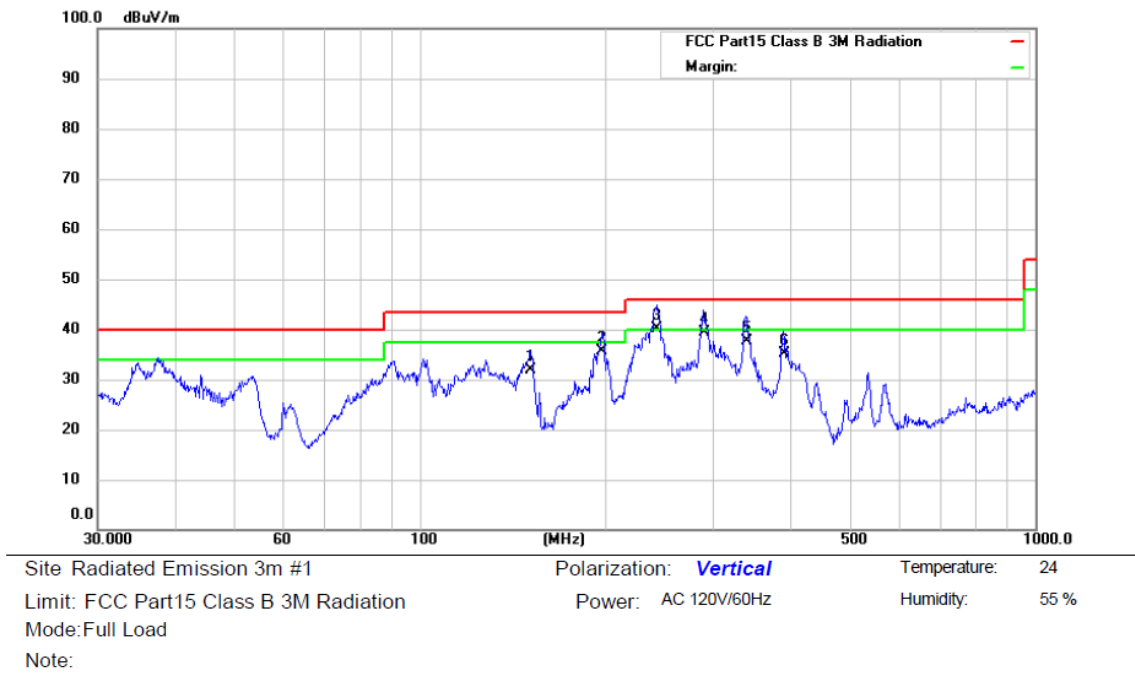
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 0.5100       | 21.80                    | 21.00                   | 42.80                      | 73.45           | -30.65     | QP                      |                 |         |
| 2   | *   | 1.1170       | 23.73                    | 21.07                   | 44.80                      | 66.66           | -21.86     | QP                      |                 |         |
| 3   |     | 2.9150       | 24.65                    | 20.65                   | 45.30                      | 69.50           | -24.20     | QP                      |                 |         |
| 4   |     | 6.9877       | 24.42                    | 20.58                   | 45.00                      | 69.50           | -24.50     | QP                      |                 |         |
| 5   |     | 12.8513      | 25.37                    | 20.23                   | 45.60                      | 69.50           | -23.90     | QP                      |                 |         |
| 6   |     | 19.2236      | 24.80                    | 20.30                   | 45.10                      | 69.50           | -24.40     | QP                      |                 |         |

30MHz-1GHz:



Site Radiated Emission 3m #1 Polarization: **Horizontal** Temperature: 24  
Limit: FCC Part15 Class B 3M Radiation Power: AC 120V/60Hz Humidity: 55 %  
Mode: Full Load  
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|---------|
| 1   |     | 243.3772     | 61.10                    | -22.60                  | 38.50                      | 46.00           | -7.50      | QP                      |                           |         |
| 2   | *   | 289.0021     | 62.90                    | -20.60                  | 42.30                      | 46.00           | -3.70      | QP                      |                           |         |
| 3   |     | 338.4001     | 55.30                    | -18.90                  | 36.40                      | 46.00           | -9.60      | QP                      |                           |         |
| 4   |     | 390.7226     | 48.46                    | -18.16                  | 30.30                      | 46.00           | -15.70     | QP                      |                           |         |
| 5   |     | 440.1963     | 48.10                    | -18.00                  | 30.10                      | 46.00           | -15.90     | QP                      |                           |         |
| 6   |     | 533.8321     | 43.93                    | -14.43                  | 29.50                      | 46.00           | -16.50     | QP                      |                           |         |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 151.0666 | 58.30         | -26.40         | 31.90       | 43.50  | -11.60 | QP             |              |         |
| 2   |     | 197.8928 | 59.15         | -23.55         | 35.60       | 43.50  | -7.90  | QP             |              |         |
| 3   | *   | 242.5253 | 62.79         | -22.69         | 40.10       | 46.00  | -5.90  | QP             |              |         |
| 4   |     | 289.0021 | 60.00         | -20.60         | 39.40       | 46.00  | -6.60  | QP             |              |         |
| 5   |     | 338.4001 | 56.50         | -18.90         | 37.60       | 46.00  | -8.40  | QP             |              |         |
| 6   |     | 389.3549 | 53.31         | -18.11         | 35.20       | 46.00  | -10.80 | QP             |              |         |

## 7. ANTENNA APPLICATION

### 7.1. Antenna Requirement

| Standard            | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC CRF Part 15.203 | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded. |

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 7.2. Result

Pass

Note: The EUT has 1 antenna: The internal antenna gain is 0 dBi;

- ☒ Antenna use a permanently attached antenna which is not replaceable.
  - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
  - ☐ The antenna has to be professionally installed (please provide method of installation)
- which in accordance to section 15.203, please refer to the internal photos.

\*\*\* End of Report \*\*\*

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