

# Nantong Tenchown Intelligent Technology Co., Ltd

## RF TEST REPORT

**Report Type:**

FCC Part 15C RF report

**Model:**

TC-C-W(03), TC-C-W (04)

**REPORT NUMBER:**

240500466SHA-001

**ISSUE DATE:**

August 13, 2024

**DOCUMENT CONTROL NUMBER:**

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**Applicant** : Nantong Tenchown Intelligent Technology Co., Ltd  
No.18 Xisu Road, High-tech District, Hai'an Country, NANTONG CITY  
Jiangsu 226600

**Manufacturer** : Nantong Tenchown Intelligent Technology Co., Ltd  
No.18 Xisu Road, High-tech District, Hai'an Country, NANTONG CITY  
Jiangsu 226600

**FCC ID** : 2A57E-TC-C-W4

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

**47CFR Part 15 (2023):** Radio Frequency Devices (Subpart C)

**ANSI C63.10 (2020):** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

**PREPARED BY:****REVIEWED BY:**

Project Engineer  
Erick Liu

Reviewer  
Wakeyou Wang

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## TEST REPORT

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## Revision History

| Report No.       | Version | Description             | Issued Date     |
|------------------|---------|-------------------------|-----------------|
| 240500466SHA-001 | Rev. 01 | Initial issue of report | August 13, 2024 |
|                  |         |                         |                 |
|                  |         |                         |                 |

## Measurement result summary

| TEST ITEM           | FCC REFERENCE | RESULT |
|---------------------|---------------|--------|
| Radiated emissions  | 15.209        | Pass   |
| Conducted emissions | 15.207        | Pass   |

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

## TEST REPORT

### 1 GENERAL INFORMATION

#### 1.1 Description of Equipment Under Test (EUT)

|                       |   |
|-----------------------|---|
| Product name:         | Wireless charging   |
| Type/Model:           | TC-C-W(03), TC-C-W (04)   |
| Description of EUT:   | EUT is a wireless charger, all models are the same except USB port, secondary circuit for USB drive and model name. after evaluation, we choose TC-C-W(03) for all tests. |
| Rating:               | Input: 29VDC, 2A<br>Wireless output: 15W MAX<br>USB A+USB C output: 5VDC, 2A total (for model TC-C-W(03) only)  |
| Category of EUT:      | Class B   |
| EUT type:             | <input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing   |
| Software Version:     | /   |
| Hardware Version:     | /   |
| Sample received date: | July 24, 2024   |
| Date of test:         | July 27, 2024~ August 9, 2024   |

#### 1.2 Technical Specification

|                  |                    |
|------------------|--------------------|
| Frequency Range: | 111kHz – 205kHz    |
| Modulation:      | ASK                |
| Antenna:         | Coil antenna, 0dBi |

## TEST REPORT

### 1.3 Description of Test Facility

|            |   |
|------------|---|
| Name:      | Intertek Testing Services (Shanghai FTZ) Co., Ltd.                      |
| Address:   | Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200  |
| Telefax:   | 86 21 54262353  |

|   |   |
|---|---|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab<br>Registration No. CNAS L21189                        |
|   | FCC Accredited Lab<br>Designation Number: CN0175                              |
|   | IC Registration Lab<br>CAB identifier.: CN0014                                |
|   | VCCI Registration Lab<br>Registration No.: R-14243, G-10845, C-14723, T-12252 |
|   | A2LA Accreditation Lab<br>Certificate Number: 3309.02                         |

## TEST REPORT

## 2 TEST SPECIFICATIONS

### 2.1 Standards or specification

47CFR Part 15 (2023)  
ANSI C63.10 (2020)

### 2.2 Mode of operation during the test

Within this test report, EUT was tested under its rating voltage and frequency (120V, 60Hz).  
The 0%/50%/100% battery capacity was tested and the 100% battery capacity was worst case.

### 2.3 Test software list

| Test Items         | Software | Manufacturer | Version |
|--------------------|----------|--------------|---------|
| Conducted emission | ESxS-K1  | R&S          | V2.1.0  |
| Radiated emission  | ES-K1    | R&S          | V1.71   |

### 2.4 Test peripherals list

| Item No. | Name              | Band and Model | Description       |
|----------|-------------------|----------------|-------------------|
| 1        | Mobile phone      | Apple iPhone12 | S/N: FFYFP8EV0DYL |
| 2        | Wireless charging | TC-C-W         | /                 |

### 2.5 Test environment condition:

| Test items                    | Temperature | Humidity |
|-------------------------------|-------------|----------|
| Radiated emission             | 25°C        | 54% RH   |
| Power line conducted emission | 24°C        | 54% RH   |



## TEST REPORT

### 2.6 Instrument list

| Conducted Emission/Disturbance Power/Tri-loop Test/CDN method |                                      |                   |             |              |            |
|---|--------------------------------------|-------------------|-------------|--------------|------------|
| Used  | Equipment                            | Manufacturer      | Type        | Internal no. | Due date   |
| <input checked="" type="checkbox"/>                           | Test Receiver                        | R&S               | ESR7        | EC 6194      | 2025-02-27 |
| <input checked="" type="checkbox"/>                           | Attenuator                           | Hua Xiang         | Ts5-10db-6g | EC 6194-1    | 2024-12-07 |
| <input checked="" type="checkbox"/>                           | A.M.N.                               | R&S               | ESH2-Z5     | EC 3119      | 2024-11-19 |
| Radiated Emission   |                                      |                   |             |              |            |
| Used  | Equipment                            | Manufacturer      | Type        | Internal no. | Due date   |
| <input checked="" type="checkbox"/>                           | Test Receiver                        | R&S               | ESR         | EC6501       | 2024-09-24 |
| <input checked="" type="checkbox"/>                           | Bilog Antenna                        | TESEQ             | CBL 6112B   | EC 6411      | 2024-09-12 |
| <input checked="" type="checkbox"/>                           | Active loop antenna                  | Schwarzbeck       | FMZB1519    | EC 5345      | 2025-08-10 |
| RF test   |                                      |                   |             |              |            |
| Used  | Equipment                            | Manufacturer      | Type        | Internal no. | Due date   |
| <input checked="" type="checkbox"/>                           | PXA Signal Analyzer                  | Keysight          | N9030A      | EC 5338      | 2025-03-05 |
| <input type="checkbox"/>                                      | Vector Signal Generator              | Agilent           | N5182B      | EC 5175      | 2025-03-05 |
| <input type="checkbox"/>                                      | Universal Radio Communication Tester | R&S               | CMW500      | EC5944       | 2025-03-05 |
| <input type="checkbox"/>                                      | MXG Analog Signal Generator          | Agilent           | N5181A      | EC 5338-2    | 2025-03-07 |
| <input type="checkbox"/>                                      | Mobile Test System                   | Litepoint         | lqxel       | EC 5176      | 2025-01-11 |
| <input type="checkbox"/>                                      | Test Receiver                        | R&S               | ESCI 7      | EC 4501      | 2025-03-09 |
| <input type="checkbox"/>                                      | Climate chamber                      | GWS               | MT3065      | EC 6021      | 2025-03-07 |
| <input checked="" type="checkbox"/>                           | Spectrum Analyzer                    | Keysight          | N9030B      | EC 6078      | 2025-03-18 |
| Test Site   |                                      |                   |             |              |            |
| Used  | Equipment                            | Manufacturer      | Type        | Internal no. | Due date   |
| <input checked="" type="checkbox"/>                           | Shielded room                        | Zhongyu           | -           | EC 2838      | 2025-01-11 |
| <input checked="" type="checkbox"/>                           | Semi-anechoic chamber                | Albatross project | -           | EC 3048      | 2026-07-11 |
| Additional instrument   |                                      |                   |             |              |            |
| Used  | Equipment                            | Manufacturer      | Type        | Internal no. | Due date   |
| <input checked="" type="checkbox"/>                           | Thermo-Hygrograph                    | Testo             | 175h1       | EC 6640      | 2025-08-29 |
| <input checked="" type="checkbox"/>                           | Thermo-Hygrograph                    | Testo             | 175h1       | EC6642       | 2025-08-29 |

## TEST REPORT

### 2.7 Measurement uncertainty

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

| Measurement                       | Frequency      | Expanded Uncertainty (k=2) |
|-----------------------------------|----------------|----------------------------|
| Conducted emission at mains ports | 9kHz ~ 150kHz  | 3.52 dB                    |
|                                   | 150kHz ~ 30MHz | 3.19 dB                    |
| Radiated Emissions up to 1 GHz    | 30MHz ~ 1GHz   | 4.90 dB                    |
| Radiated Emissions above 1 GHz    | 1GHz ~ 6GHz    | 5.02 dB                    |
|                                   | 6GHz ~ 18GHz   | 5.28 dB                    |

## TEST REPORT

### 3 Radiated emissions

Test result: Pass

#### 3.1 Limit

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

#### 3.2 Measurement Procedure

##### For Radiated emission below 30MHz:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

##### NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

##### For Radiated emission above 30MHz:

- The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

## TEST REPORT

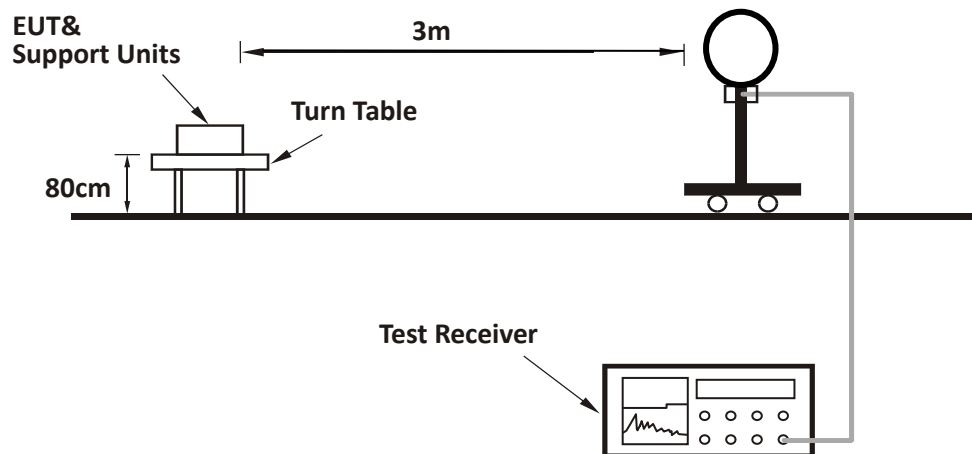
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

### Note:

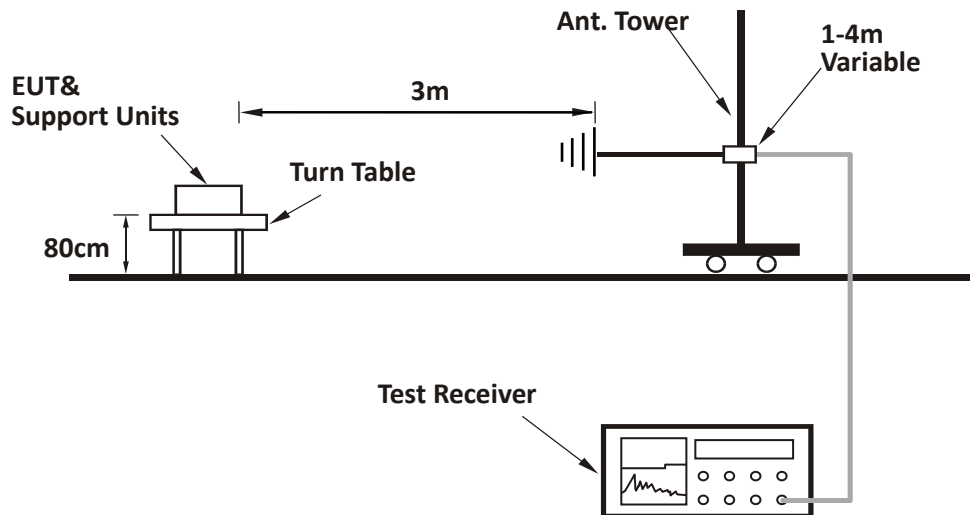
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. All modes of operation were evaluated and the worst-case emissions were reported

## 3.3 Test Configuration

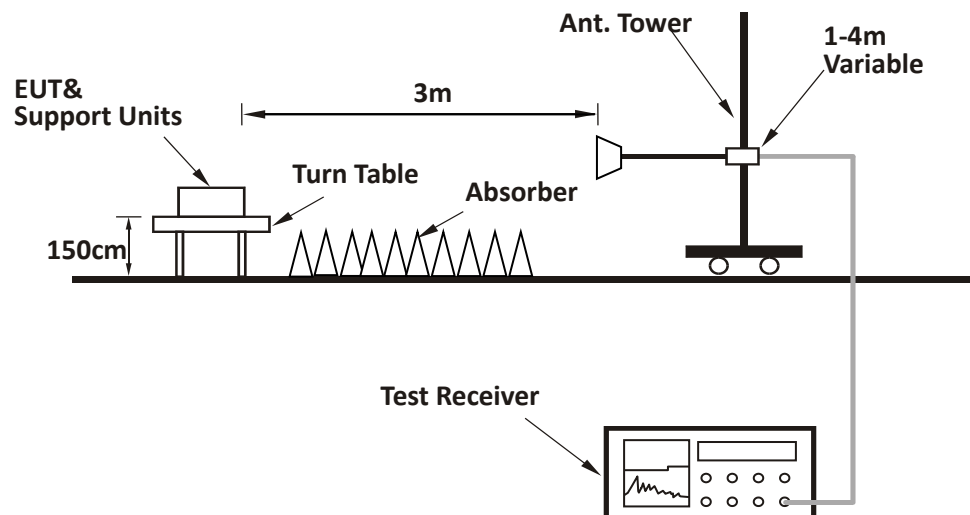
For Radiated emission below 30MHz:



**For Radiated emission 30MHz to 1GHz:**



**For Radiated emission above 1GHz:**

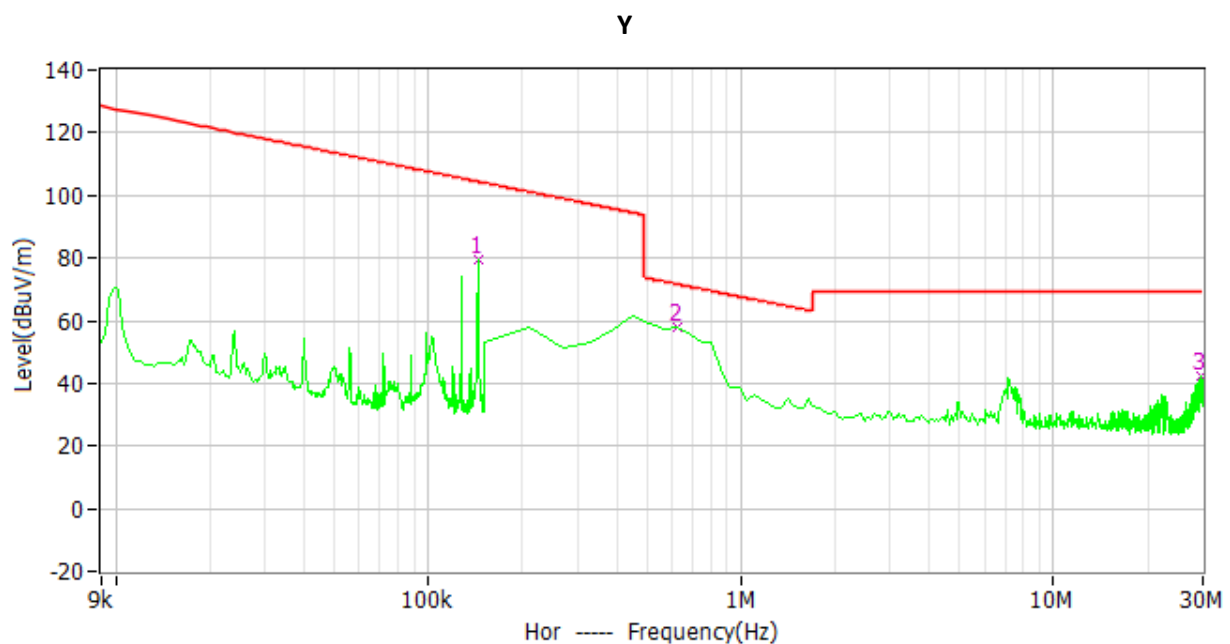
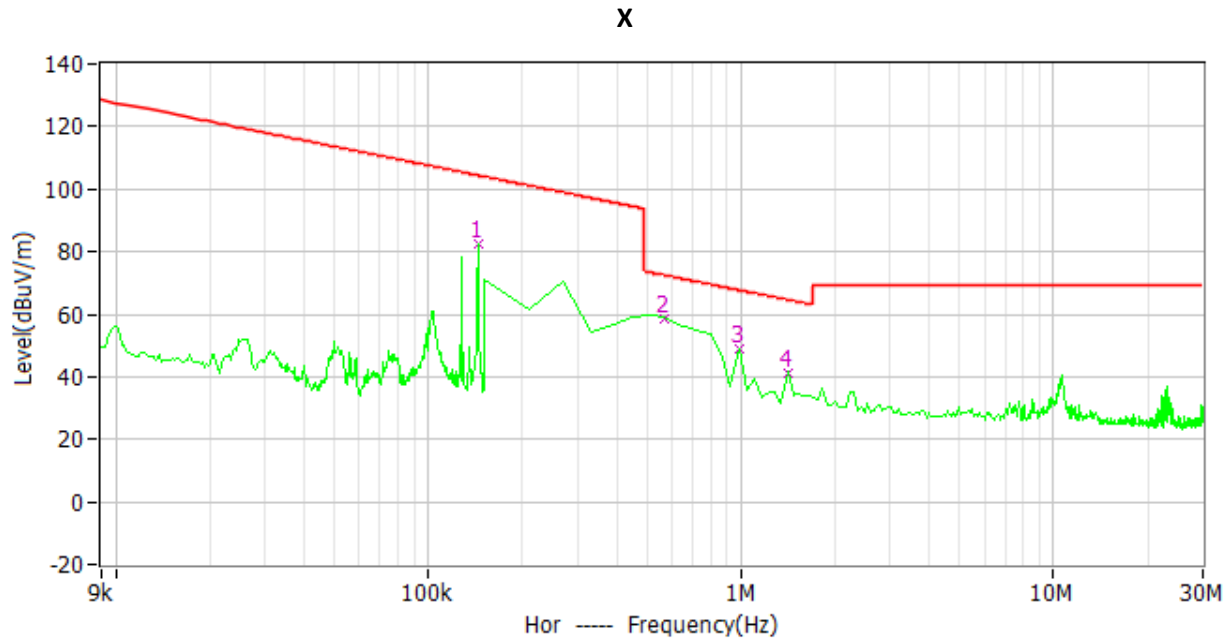


## TEST REPORT

### 3.4 Test Results of Radiated Emissions

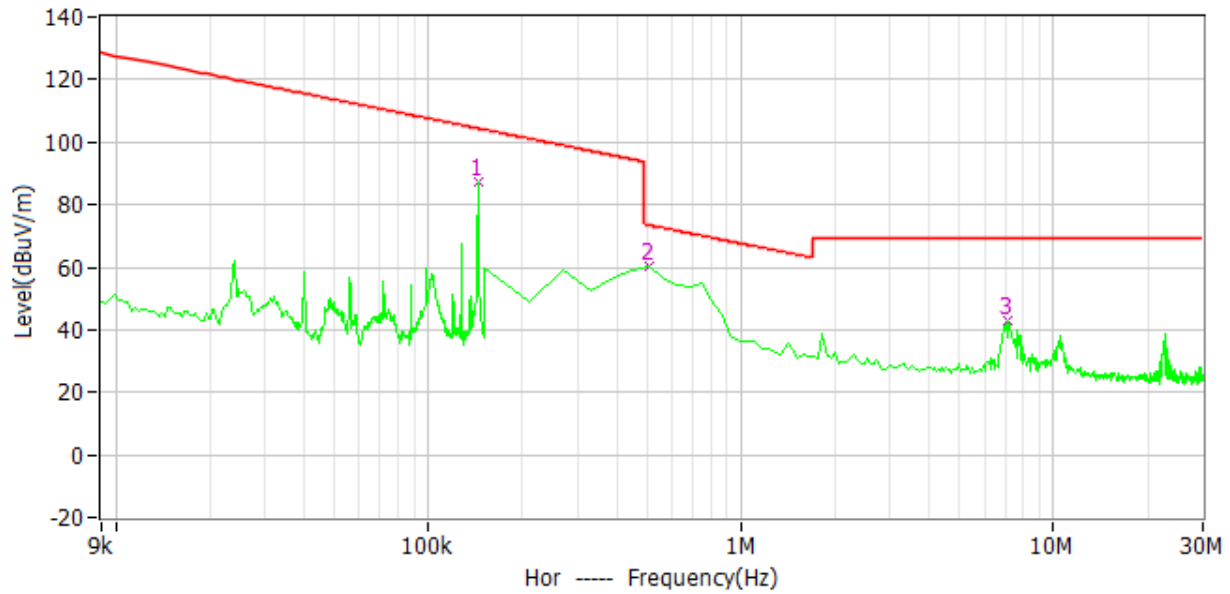
EUT was tested with empty load, half load and full load, the full load is the worst case and we listed the results in the report.

Test data below 30MHz:



## TEST REPORT

Z



| Frequency  | Limit<br>dBuV/m | Level<br>dBuV/m | Delta<br>dB | Reading<br>dBuV | Factor<br>dB/m | Detector | Polar |
|------------|-----------------|-----------------|-------------|-----------------|----------------|----------|-------|
| 143.784kHz | 104.4           | 82.7            | -21.7       | 62.6            | 20.1           | PK       | X     |
| 568.738kHz | 72.5            | 58.8            | -13.7       | 38.6            | 20.2           | PK       | X     |
| 987.475kHz | 67.7            | 49.1            | -18.6       | 29.0            | 20.1           | PK       | X     |
| 1.406MHz   | 64.7            | 41.4            | -23.3       | 21.2            | 20.2           | PK       | X     |
| 143.784kHz | 104.4           | 79.4            | -25.0       | 59.3            | 20.1           | PK       | Y     |
| 628.557kHz | 71.6            | 57.8            | -13.8       | 37.6            | 20.2           | PK       | Y     |
| 29.581MHz  | 69.5            | 42.3            | -27.2       | 21.6            | 20.7           | PK       | Y     |
| 144.066kHz | 104.4           | 87.3            | -17.1       | 67.2            | 20.1           | PK       | Z     |
| 508.918kHz | 73.5            | 60.1            | -13.4       | 39.9            | 20.2           | PK       | Z     |
| 7.149MHz   | 69.5            | 42.7            | -26.8       | 22.3            | 20.4           | PK       | Z     |

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Correct Factor

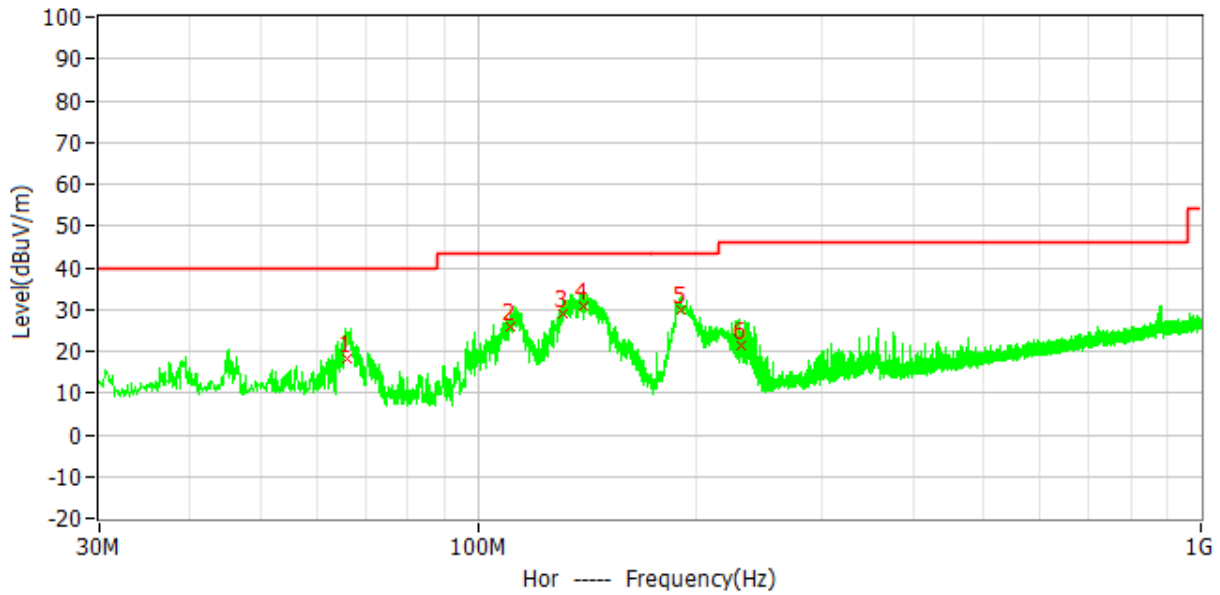
3. Delta = Level - Limit

4. If the PK Level is lower than AV limit, the AV test can be elided.

## TEST REPORT

Test data from 30MHz to 1000MHz:

### Horizontal



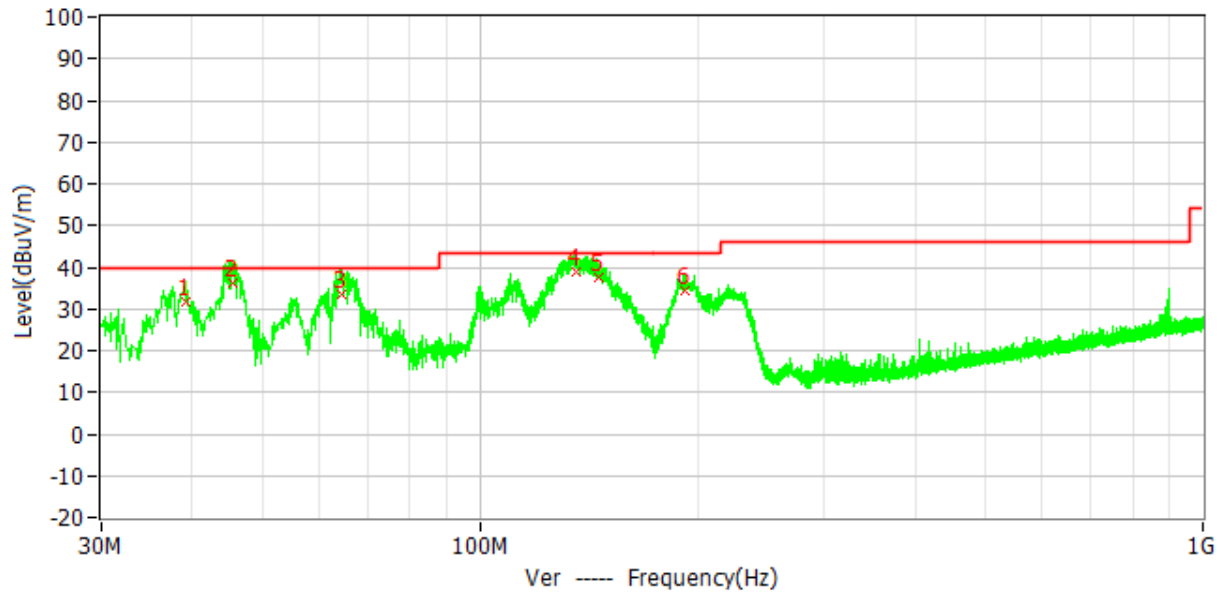
| No. | Frequency  | Limit<br>dBuV/m | Level<br>dBuV/m | Delta<br>dB | Reading<br>dBuV | Factor<br>dB/m | Detector | Polar |
|-----|------------|-----------------|-----------------|-------------|-----------------|----------------|----------|-------|
| 1   | 65.857MHz  | 40.0            | 18.0            | -22.0       | 5.0             | 13.0           | QP       | Hor   |
| 2   | 111.274MHz | 43.5            | 25.7            | -17.8       | 14.4            | 11.3           | QP       | Hor   |
| 3   | 131.040MHz | 43.5            | 28.9            | -14.6       | 15.6            | 13.3           | QP       | Hor   |
| 4   | 139.804MHz | 43.5            | 31.0            | -12.5       | 16.9            | 14.1           | QP       | Hor   |
| 5   | 191.312MHz | 43.5            | 29.9            | -13.6       | 17.6            | 12.3           | QP       | Hor   |
| 6   | 231.896MHz | 46.0            | 21.2            | -24.8       | 8.4             | 12.8           | QP       | Hor   |

- Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.  
 2. Level = Original Receiver Reading + Correct Factor  
 3. Delta = Level - Limit  
 4. If the PK Level is lower than AV limit, the AV test can be elided.



## TEST REPORT

### Vertical



| No. | Frequency  | Limit<br>dBuV/m | Level<br>dBuV/m | Delta<br>dB | Reading<br>dBuV | Factor<br>dB/m | Detector | Polar |
|-----|------------|-----------------|-----------------|-------------|-----------------|----------------|----------|-------|
| 1   | 39.235MHz  | 40.0            | 31.8            | -8.2        | 18.0            | 13.8           | QP       | Ver   |
| 2   | 45.531MHz  | 40.0            | 36.0            | -4.0        | 21.7            | 14.3           | QP       | Ver   |
| 3   | 64.467MHz  | 40.0            | 33.3            | -6.7        | 20.1            | 13.2           | QP       | Ver   |
| 4   | 136.050MHz | 43.5            | 38.8            | -4.7        | 25.0            | 13.8           | QP       | Ver   |
| 5   | 146.071MHz | 43.5            | 37.5            | -6.0        | 23.1            | 14.4           | QP       | Ver   |
| 6   | 192.514MHz | 43.5            | 34.6            | -8.9        | 22.4            | 12.2           | QP       | Ver   |

- Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.  
 2. Level = Original Receiver Reading + Correct Factor  
 3. Delta = Level - Limit  
 4. If the PK Level is lower than AV limit, the AV test can be elided.

## TEST REPORT

### 4 Conducted emissions

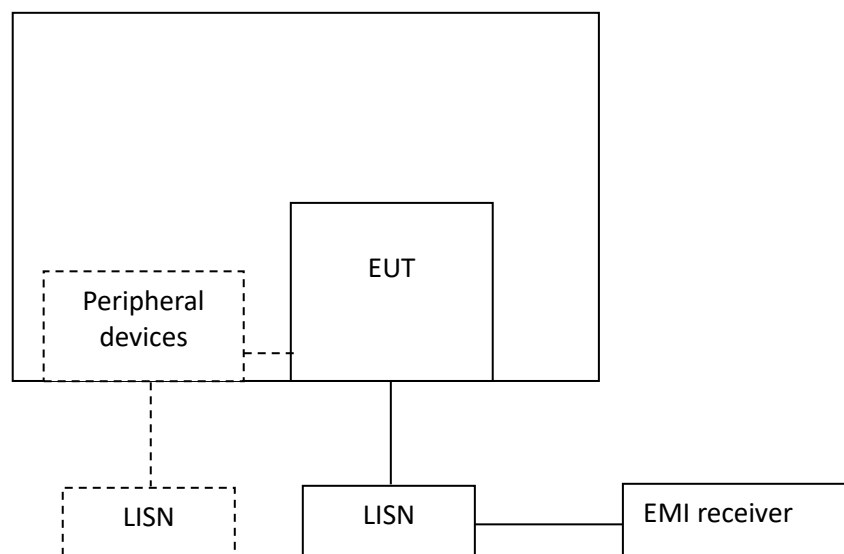
Test result: Pass

#### 4.1 Limit

| Frequency of Emission (MHz) | Conducted Emissions Limit (dBuV) |            |
|-----------------------------|----------------------------------|------------|
|                             | QP                               | AV         |
| 0.15-0.5                    | 66 to 56*                        | 56 to 46 * |
| 0.5-5                       | 56                               | 46         |
| 5-30                        | 60                               | 50         |

\* Decreases with the logarithm of the frequency.

#### 4.2 Test Configuration



**TEST REPORT****4.3 Measurement Procedure**

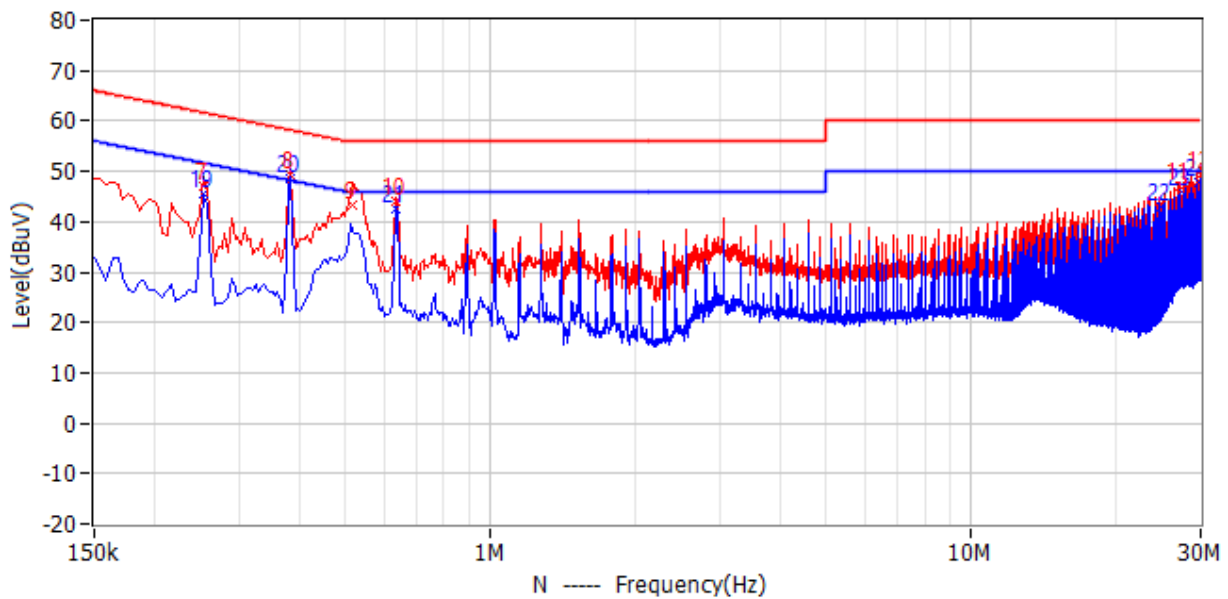
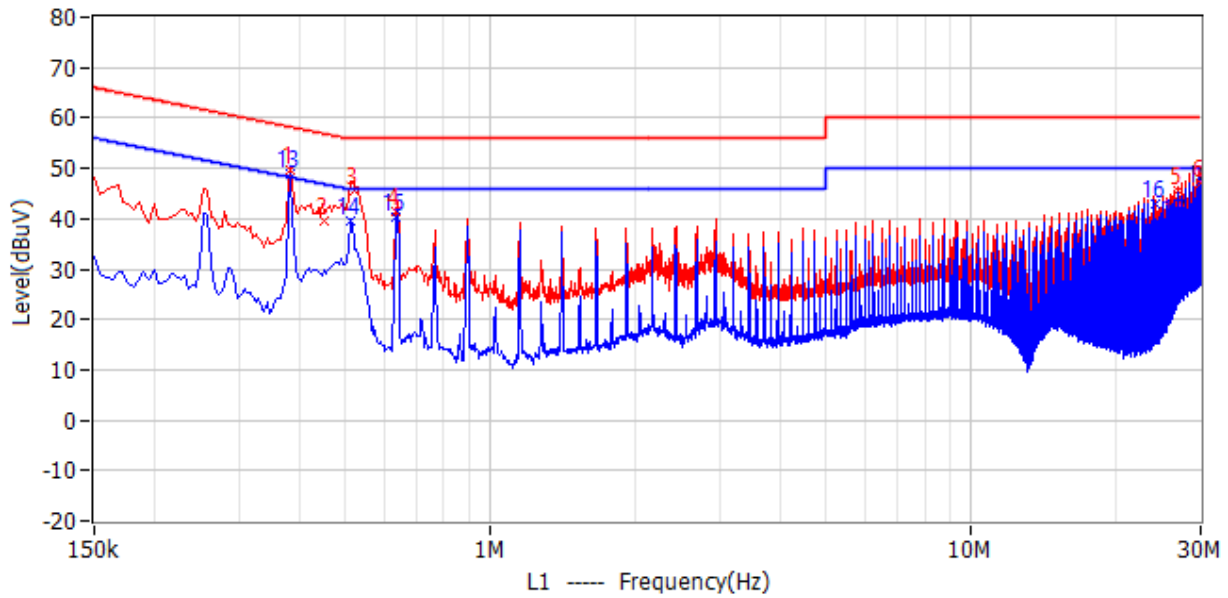
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50  $\Omega$  LISN port (to which the EUT is connected), where permitted, terminated into a 50  $\Omega$  measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50  $\Omega$  measuring port is terminated by a measuring instrument having 50  $\Omega$  input impedance. All other ports are terminated in 50  $\Omega$  loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

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

## TEST REPORT

### 4.4 Test Results of Conducted Emissions



| No. | Frequency  | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Phase |
|-----|------------|------------|------------|----------|--------------|-----------|----------|-------|
| 1   | 384.000kHz | 58.2       | 49.8       | -8.4     | 43.6         | 6.2       | QP       | L1    |
| 2   | 451.500kHz | 56.8       | 39.6       | -17.2    | 33.4         | 6.2       | QP       | L1    |
| 3   | 523.500kHz | 56.0       | 45.4       | -10.6    | 39.2         | 6.2       | QP       | L1    |
| 4   | 636.000kHz | 56.0       | 41.5       | -14.5    | 35.3         | 6.2       | QP       | L1    |
| 5   | 26.871MHz  | 60.0       | 45.6       | -14.4    | 37.9         | 7.7       | QP       | L1    |
| 6   | 29.931MHz  | 60.0       | 46.9       | -13.1    | 38.9         | 8.0       | QP       | L1    |
| 7   | 253.500kHz | 61.6       | 47.0       | -14.6    | 40.8         | 6.2       | QP       | N     |
| 8   | 384.000kHz | 58.2       | 49.2       | -9.0     | 43.0         | 6.2       | QP       | N     |
| 9   | 514.500kHz | 56.0       | 43.2       | -12.8    | 37.0         | 6.2       | QP       | N     |
| 10  | 636.000kHz | 56.0       | 44.0       | -12.0    | 37.8         | 6.2       | QP       | N     |

# TEST REPORT

| No. | Frequency  | Limit<br>dBuV | Level<br>dBuV | Delta<br>dB | Reading<br>dBuV | Factor<br>dB | Detector | Phase |
|-----|------------|---------------|---------------|-------------|-----------------|--------------|----------|-------|
| 11  | 27.137MHz  | 60.0          | 47.0          | -13.0       | 39.4            | 7.6          | QP       | N     |
| 12  | 29.945MHz  | 60.0          | 49.2          | -10.8       | 41.4            | 7.8          | QP       | N     |
| 13  | 384.000kHz | 48.2          | 47.4          | -0.8        | 42.6            | 6.2          | CAV      | L1    |
| 14  | 510.000kHz | 46.0          | 39.6          | -6.4        | 33.4            | 6.2          | CAV      | L1    |
| 15  | 636.000kHz | 46.0          | 40.3          | -5.7        | 34.1            | 6.2          | CAV      | L1    |
| 16  | 24.072MHz  | 50.0          | 42.8          | -7.2        | 35.3            | 7.5          | CAV      | L1    |
| 17  | 26.750MHz  | 50.0          | 39.1          | -10.9       | 31.4            | 7.7          | CAV      | L1    |
| 18  | 29.936MHz  | 50.0          | 46.0          | -4.0        | 38.0            | 8.0          | CAV      | L1    |
| 19  | 253.500kHz | 51.6          | 45.4          | -6.3        | 39.2            | 6.2          | CAV      | N     |
| 20  | 384.000kHz | 48.2          | 47.6          | -0.6        | 42.2            | 6.2          | CAV      | N     |
| 21  | 636.000kHz | 46.0          | 42.6          | -3.4        | 36.4            | 6.2          | CAV      | N     |
| 22  | 24.851MHz  | 50.0          | 43.0          | -7.0        | 35.6            | 7.4          | CAV      | N     |
| 23  | 27.402MHz  | 50.0          | 45.8          | -4.2        | 38.2            | 7.6          | CAV      | N     |
| 24  | 29.697MHz  | 50.0          | 47.8          | -2.2        | 40.0            | 7.8          | CAV      | N     |

Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.  
2. Level = Original Receiver Reading + Factor  
3. Delta= Level - Limit  
4. If the PK Level is lower than AV limit, the AV test can be elided.

Example: Assuming LISN Factor = 10.00dB, Cable Loss = 2.00dB,  
Original Receiver Reading = 10.00dBuV, Limit = 66.00dBuV.  
Then Factor = 10.00 + 2.00 = 12.00dB;  
Level = 10dBuV + 12.00dB = 22.00dBuV;  
Delta = 22.00dBuV - 66.00dBuV = -44.00dB.

\*\*\*\*\* END \*\*\*\*\*