



|  |  |  |   |   |
|--|--|--|---|---|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>   | CN228IHN (FCC-Colocated)<br>001  | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>  | 238550055                                 | Seite 1 von 21<br>Page 1 of 21          |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>  | N/A  | <b>Auftragsdatum:</b><br><i>Order date:</i>  | 2022-11-11                                |   |
| <b>Auftraggeber:</b><br><i>Client:</i>   | Emplus Technologies, Inc<br>Bld B, 10F, No.209, Sec.1, Nangang Rd., Taipei City, Taiwan    |  |   |   |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>  | 11AX Dual band AP  |  |   |   |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>   | WAP388 and WAP388-C  |  |   |   |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>   | Spot Checking Emissions (FCC)  |  |   |   |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>  | FCC 47CFR Part 15: Subpart C Section 15.247<br>FCC 47CFR Part 15: Subpart E Section 15.407 |  |   |   |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>   | 2022-11-15   |  |   |   |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>  | A003372209-005   |  |   |   |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>   | 2022-11-22 - 2023-01-10  |  |   |   |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>  | EMC/RF Taipei Testing Site   |  |   |   |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>   | Taipei Testing Laboratories  |  |   |   |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>  | Pass   |  |   |   |
| <b>überprüft von:</b><br><i>compiled by:</i>   | <b>genehmigt von:</b><br><i>authorized by:</i>   |  |   |   |
| <b>Datum:</b><br><i>Date:</i> 2023-01-04   | <br>Ethan Shao   | <b>Ausstellungsdatum:</b><br><i>Issue date:</i> 2023-01-04                         | <br>Brenda Chen                           |   |
| <b>Stellung / Position:</b>  | Assistant Project Engineer   | <b>Stellung / Position:</b>  | Senior Project Manager                    |   |
| <b>Sonstiges / Other:</b>  |  |  |   |   |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>   |  | Prüfmuster vollständig und unbeschädigt<br><i>Test item complete and undamaged</i> |   |   |
| * Legende:   | 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                                  | 2 = gut<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)                         | 3 = befriedigend<br>N/A = nicht anwendbar | 4 = ausreichend<br>N/T = nicht getestet |
| * Legend:  | 1 = very good<br>P(ass) = passed a.m. test specification(s)                                | 2 = good<br>F(ail) = failed a.m. test specification(s)                             | 3 = satisfactory<br>N/A = not applicable  | 4 = sufficient<br>N/T = not tested      |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |  |  |   |   |

v05

## TEST SUMMARY

| Report Section | FCC Clause                                 | Test Item                                  | Result |
|----------------|--|--|--------|
| 5.1.1          | 15.247(d) & 15.407(b)<br>& 15.205 & 15.209 | Radiated Spurious Emissions and Band Edges | Pass   |
| 5.2.1          | 15.207                                     | Mains Conducted Emission                   | Pass   |

**Note:** Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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| <b>APPENDIX EP - PHOTOGRAPHS OF EUT</b>  |           |

## HISTORY OF THIS TEST REPORT

| Report No.                   | Description      | Date Issued |
|------------------------------|------------------|-------------|
| CN228IHN (FCC-Colocated) 001 | Original Release | 2023-01-04  |

## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

**Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission**

**Appendix SP - Photographs of Test Setup**

**Appendix EP - Photographs of EUT**

### Applied Standard and Test Levels

| Radio                                       |
|---|
| FCC CFR47 Part 15: Subpart C Section 15.247 |
| FCC CFR47 Part 15: Subpart E Section 15.407 |
| FCC CFR47 Part 2: Subpart J Section 2.1091  |
| ANSI C63.10:2013                            |
| KDB 558074 D01 15.247 Meas Guidance v05r02  |
| KDB 996369 D04 Module Integration Guide v01 |

### 1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

## 2. Test Sites

### 2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

### 2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,  
New Taipei City 244  
Taiwan (R.O.C.)  
FCC Registration No.: 180491  
ISED Registration No.: 25563

## 2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicate a 95% level of confidence.

### Emission Measurement Uncertainty

| Parameter                            | Uncertainty   |
|--------------------------------------|---------------|
| Radiated Emission (9 kHz ~ 30 MHz)   | $\pm 1.15$ dB |
| Radiated Emission (30 MHz ~ 200 MHz) | $\pm 1.30$ dB |
| Radiated Emission (200 MHz ~ 1 GHz)  | $\pm 1.30$ dB |
| Radiated Emission (1 GHz ~ 18 GHz)   | $\pm 1.54$ dB |
| Radiated Emission (18 GHz ~ 40 GHz)  | $\pm 2.52$ dB |
| Mains Conducted Emission             | $\pm 1.65$ dB |

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a 11AX Dual band AP. It contains WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 System Details and Ratings

##### Basic Information of EUT

| Item                        | EUT information     |
|-----------------------------|---------------------|
| Kind of Equipment/Test Item | 11AX Dual band AP   |
| Type Identification         | WAP388 and WAP388-C |
| FCC ID                      | 2AL6XWAP388         |

##### Technical Specification of EUT

| Item                | EUT information  |
|---------------------|--|
| Operating Frequency | WLAN 2.4G: 2412 MHz ~ 2462 MHz<br>WLAN 5G:<br>Band 1: 5180 MHz ~ 5240 MHz<br>Band 4: 5745 MHz ~ 5825 MHz |
| Operation Voltage   | 12 Vdc (Adapter)<br>54 Vdc (POE Injector)  |
| Modulation          | WiFi:<br>DSSS (DBPSK, DQPSK, CCK)<br>OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)<br>OFDMA (1024QAM)          |
| Antenna Information | Refer to note as below   |



Note:

1. All models are listed as below.

| Main Model | Series Model | Difference   |
|------------|--------------|--|
| WAP388     | WAP388-C     | 1. WAP388: 2.5G LANx1 + 1G LANx1 + NOR Flash<br>2. WAP388-C: 2.5G LANx1 (remove 1G LAN + NOR Flash)<br>1GbE RJ45 is not available for WAP388-C model |

2. The antenna list is as below.

| ANT            | Type                   | Gain (dBi) |        |        |
|----------------|------------------------|------------|--------|--------|
|                |                        | 2.4 GHz    | 5 GHz  |        |
|                |                        |            | Band 1 | Band 4 |
| 1              | PIFA                   | 4.5        | 5.8    | 5.4    |
| 2              | PIFA                   | 4.6        | 4.6    | 5.2    |
| 3              | Dipole                 | -          | 5.9    | 5.3    |
| 4              | Dipole                 | -          | 5.3    | 5.8    |
| Max. Peak Gain |                        | 4.6        | 5.9    | 5.8    |
| CDD            | Power Directional Gain | 4.6        | 5.9    | 5.8    |
|                | PSD Directional Gain   | 7.56       | 11.44  | 11.45  |
| Beamforming    | Power Directional Gain | 7.56       | 11.44  | 11.45  |
|                | PSD Directional Gain   | 7.56       | 11.44  | 11.45  |

Note: PSD Directional Gain =  $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$

### 3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

## **4. Test Set-up and Operation Modes**

### **4.1 Principle of Configuration Selection**

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

## 4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with a LAN interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

The samples were used as follows:

A003372209-005 for radiated test

Full test was applied on all test modes, but only worst case was shown.

| EUT Configure Mode | Applicable To               |                          | Description |
|--------------------|-----------------------------|--------------------------|-------------|
|                    | Radiated Spurious Emissions | Mains Conducted Emission |             |
| -                  | √                           | √                        | -           |

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Y-plane**.
2. "-" means no effect.

### Radiated Spurious Emissions

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Description  |
|--------------------|--|
| Adapter            | WiFi 5G 802.11ax HE80_5775MHz + WiFi 2.4G 802.11g_2462 MHz |
| POE                | WiFi 5G 802.11ax HE80_5775MHz + WiFi 2.4G 802.11g_2462 MHz |

### Mains Conducted Emission

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Description               |
|--------------------|---------------------------|
| Adapter            | WLAN 2.4 GHz + WLAN 5 GHz |
| POE                | WLAN 2.4 GHz + WLAN 5 GHz |

### Test Condition

| Test Item                   | Ambient Temperature | Relative Humidity | Tested by  |
|-----------------------------|---------------------|-------------------|------------|
| Radiated Spurious Emissions | 23.7-24.6 °C        | 52-55 %           | Roger Liao |
| Mains Conducted Emission    | 21 °C               | 50 %              | Ray Huang  |

### 4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

#### Accessory of EUT

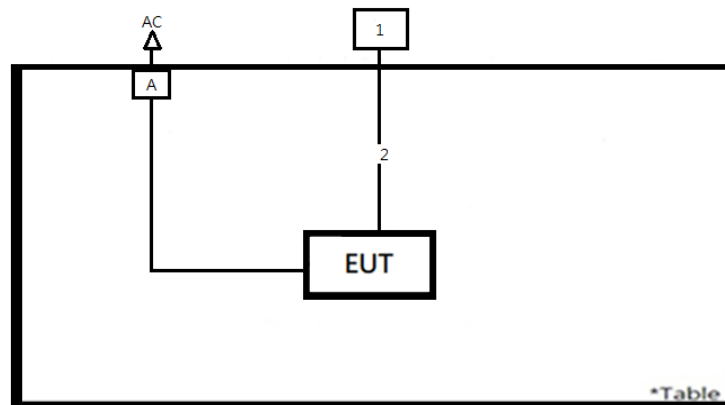
None

#### Support Unit

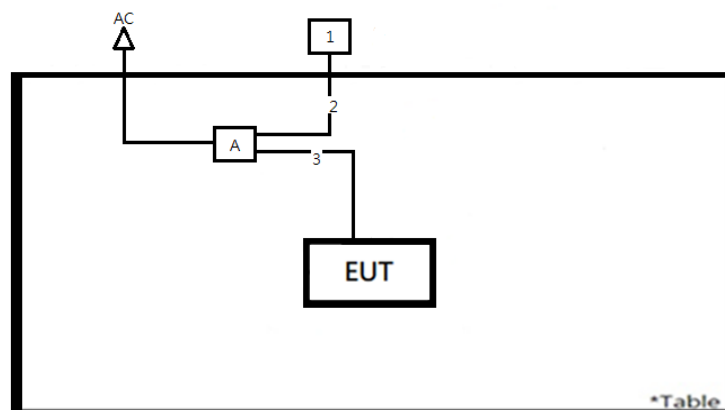
| Support Unit |             |        |                  |          |          |                    |             |                 |
|--------------|-------------|--------|------------------|----------|----------|--------------------|-------------|-----------------|
| No           | Description | Brand  | Model            | S/N      | Shielded | Ferrite Core (Qty) | Length (cm) | Remark          |
| Adapter Mode |             |        |                  |          |          |                    |             |                 |
| A            | AC Adapter  | Ktec   | KSA-24W-120200D5 | N/A      | NO       | YES                | 150         | --              |
| 1            | Notebook    | Lenovo | 81BL             | MP1DCD6Y | -        | -                  | -           | --              |
| 2            | LAN Cable   | TUV    | TUV-01           | N/A      | NO       | NO                 | 300         | --              |
| POE Mode     |             |        |                  |          |          |                    |             |                 |
| A            | POE         | Emplus | EPA5006GP        | N/A      | NO       | NO                 | 100         | Radiated        |
| 1            | Notebook    | Lenovo | 81BL             | MP1DCD6Y | -        | -                  | -           |                 |
| 2            | LAN Cable   | TUV    | TUV-01           | N/A      | NO       | NO                 | 300         |                 |
| 3            | LAN Cable   | TUV    | TUV-02           | NO       | NO       | NO                 | 150         | Mains Conducted |
| A            | POE         | Emplus | EPA5006GP        | N/A      | NO       | NO                 | 100         |                 |
| 1            | LAN Cable   | TUV    | TUV-001          | NO       | NO       | NO                 | 300         |                 |
| 2            | LAN Cable   | TUV    | TUV-002          | NO       | NO       | NO                 | 150         |                 |
| 3            | Notebook    | Lenovo | 81BL             | MP1DCD6Y | -        | -                  | -           |                 |

## 4.4 Test Setup Diagram

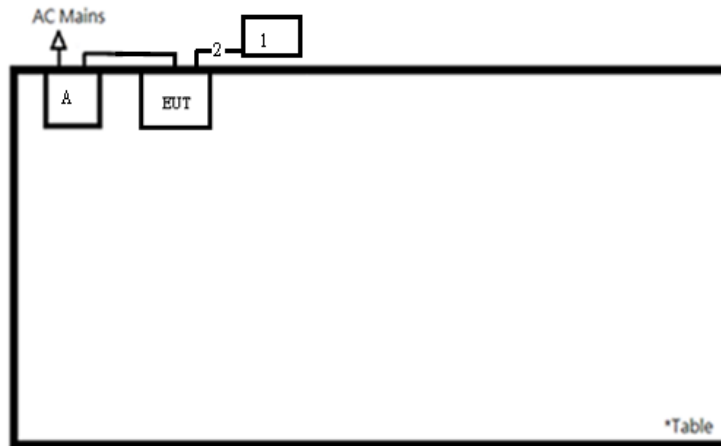
<Radiated Spurious Emissions mode>  
Adapter Mode



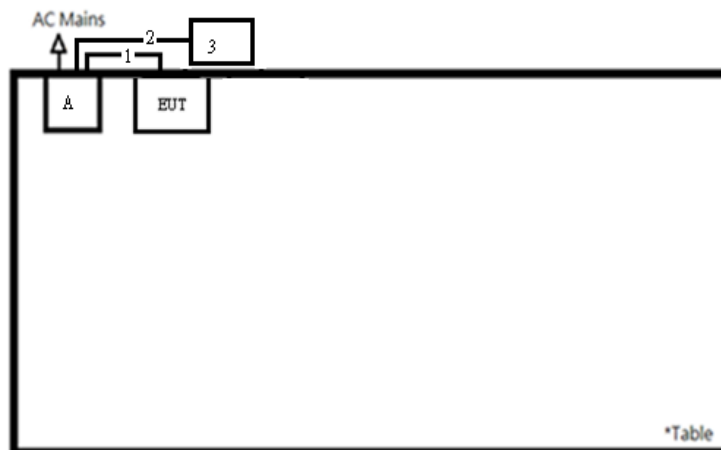
POE Mode



<Mains Conducted Emission mode>  
Adapter Mode



POE Mode



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Radiated Spurious Emissions

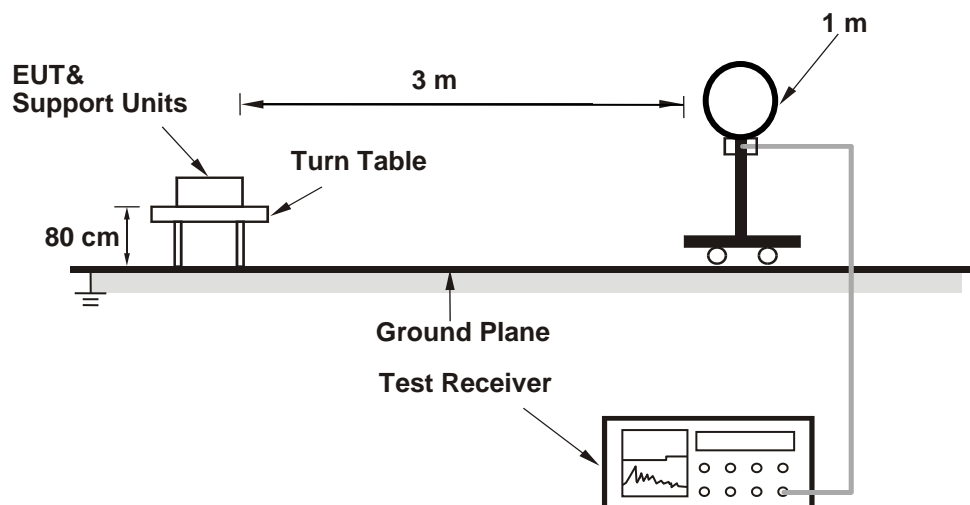
##### Limit

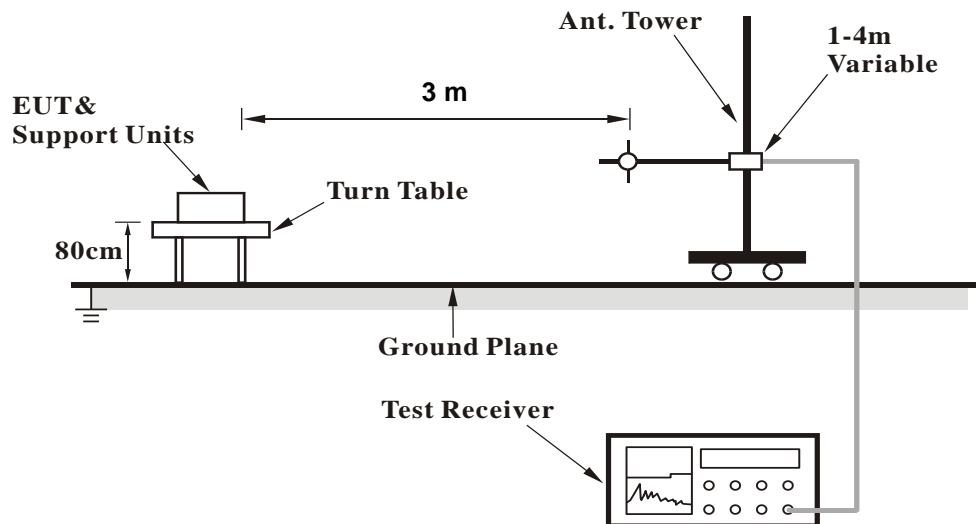
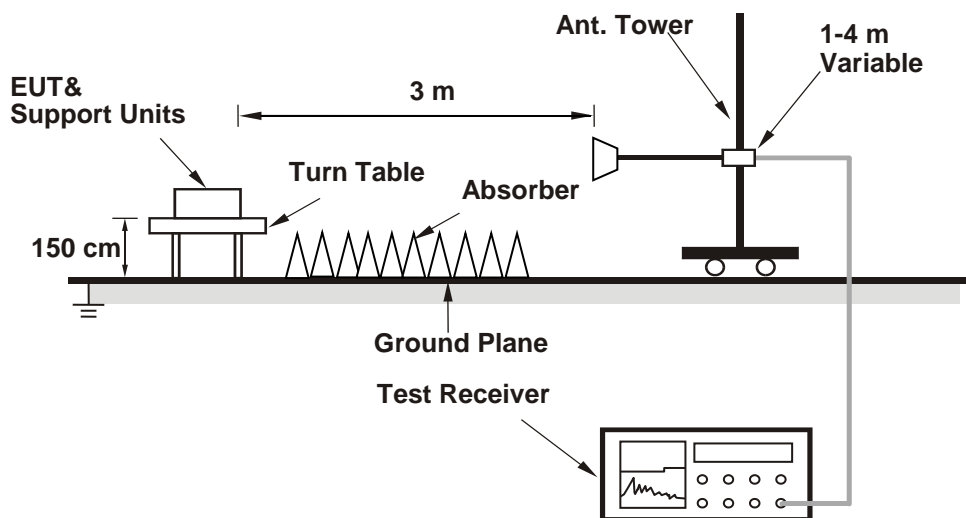
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

**Kind of Test Site**                      3m Semi-Anechoic Chamber

##### Test Setup

<Radiated Emissions below 30 MHz>



**<Radiated Emissions 30 MHz to 1 GHz>**

**<Radiated Emissions above 1 GHz>**


For the actual test configuration, please refer to the attached file (Test Setup Photo).



**Test Instruments**

| Kind of Equipment     | Manufacturer      | Type                   | S/N        | Calibration Date | Calibration Due Date |
|-----------------------|-------------------|------------------------|------------|------------------|----------------------|
| <b>Above 1 GHz</b>    |                   |                        |            |                  |                      |
| Signal Analyzer       | R&S               | FSV40                  | 101509     | 2022/4/22        | 2023/4/21            |
| Horn Antenna          | ETS-Lindgren      | 3117                   | 00218930   | 2021/12/20       | 2022/12/19           |
| HF-AMP + AC source    | EMCI              | EMC051845SE            | 980635     | 2022/1/20        | 2023/1/19            |
| HF-AMP + AC source    | EMCI              | EMC184045SE            | 980656     | 2022/1/20        | 2023/1/19            |
| Horn Antenna          | SCHWARZBECK       | BBHA 9170              | 00887      | 2022/3/29        | 2023/3/28            |
| Test Software         | Audix E3          | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |
| <b>30 MHz ~ 1 GHz</b> |                   |                        |            |                  |                      |
| Receiver              | R&S               | ESR7                   | 102109     | 2022/2/25        | 2023/2/24            |
| Bilog Antenna         | SCHWARZBECK       | VULB-9168              | 00949      | 2022/5/29        | 2023/5/28            |
| LF-AMP                | Agilent           | 8447D                  | 2727A05146 | 2022/2/16        | 2023/2/15            |
| Test Software         | Audix E3          | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |
| <b>Below 30 MHz</b>   |                   |                        |            |                  |                      |
| Receiver              | R&S               | ESR7                   | 102109     | 2022/2/25        | 2023/2/24            |
| Microwave Cable       | SUCOFLEX<br>104EA | 800056/4EA             | 804680/4   | 2022/3/22        | 2023/3/21            |
| Loop Antenna          | SCHWARZBECK       | FMZB 1519B             | 00215      | 2021/12/8        | 2022/12/7            |
| Test Software         | Audix E3          | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |

**Test Procedures****For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. 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.
- e. 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 9 kHz at frequency below 30 MHz.

**For Radiated Emissions above 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- 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 detected 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 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
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 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98 %) or 10 Hz (Duty cycle  $\geq 98$  %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

**Test Results**

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)  
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

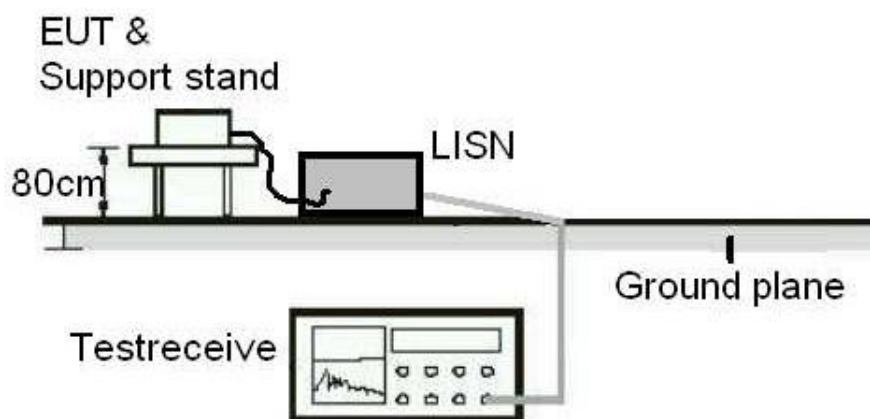
## 5.2 Mains Emission

### 5.2.1 Mains Conducted Emission

**Limit**

Mains Conducted emissions as defined in §15.207 must comply with the mains conducted emission limits.

**Kind of Test Site**                      Shielded room

**Test Setup**

**Test Instruments**

| Kind of Equipment  | Manufacturer    | Type   | S/N    | Calibration Date | Calibration Due Date |
|--------------------|-----------------|--------|--------|------------------|----------------------|
| Two-Line V-Network | Rohde & Schwarz | ENV216 | 101938 | 2022/9/22        | 2023/9/21            |
| EMI Test Receiver  | R&S             | ESR    | 102108 | 2022/4/28        | 2023/4/27            |

**Test Procedures**

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

**Test Results**

Please refer to Appendix A.