



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |                                                                                    |                        |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|------------------------|--------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | CN25HD9E 001                                     | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                          | 48275622               | Seite 1 von 26<br>Page 1 of 26 |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | N/A                                              | <b>Auftragsdatum:</b><br><i>Order date:</i>                                        | 2025-04-16             |                                |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                             | Nedap N.V.<br>Parallelweg 2, Groenlo Netherlands |                                                                                    |                        |                                |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                        | i15 Go Light Grey                                |                                                                                    |                        |                                |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                 | ASSY PA15R RF                                    |                                                                                    |                        |                                |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | FCC Part 15C Test report                         |                                                                                    |                        |                                |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                | FCC 47CFR Part 15: Subpart C Section 15.223      |                                                                                    |                        |                                |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                       | 2025-05-27                                       |                                                                                    |                        |                                |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | A004006210-001                                   |                                                                                    |                        |                                |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | 2025-06-02 - 2025-07-17                          |                                                                                    |                        |                                |
| <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>zusammengestellt von:</b><br><i>compiled by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                | <b>genehmigt von:</b><br><i>authorized by:</i>   |                                                                                    |                        |                                |
| <b>Datum:</b><br><i>Date:</i> 2025-07-17                                                                                                                                                                                                                                                                                                                                                                                                                           | <br>Anderson Chiu                                |                                                                                    | <br>Brenda Chen        |                                |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | Senior Project Manager                           |                                                                                    | 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> |                        |                                |
| <p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft<br/>P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>* Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor<br/>P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>                   |                                                  |                                                                                    |                        |                                |
| <p><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></p> |                                                  |                                                                                    |                        |                                |

Prüfbericht-Nr.:  
Test report no.:

**CN25HD9E 001**

Seite 2 von 26  
Page 2 of 26

**Anmerkungen**  
**Remarks**

- |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>2</b> | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="https://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="https://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| <b>3</b> | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>4</b> | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>                                                                                                                                                                                                                                                                                         |

## TEST SUMMARY

| Report Section | FCC Clause | Test Item                               | Result |
|----------------|------------|-----------------------------------------|--------|
| 5.1.1          | 15.203     | Antenna Requirement                     | Pass   |
| 5.1.2          | 15.223(a)  | Field Strength of Fundamental Emissions | Pass   |
| 5.1.3          | 15.223(a)  | 6 dB Bandwidth                          | Pass   |
| 5.1.3          | 2.1049     | 99% Occupied Bandwidth                  | Pass   |
| 5.1.4          | 15.223(b)  | Radiated Spurious Emissions             | 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.

## Contents

|                                                            |           |
|------------------------------------------------------------|-----------|
| <b>HISTORY OF THIS TEST REPORT .....</b>                   | <b>6</b>  |
| <b>1. GENERAL REMARKS .....</b>                            | <b>7</b>  |
| 1.1 COMPLEMENTARY MATERIALS .....                          | 7         |
| 1.2 DECISION RULE OF CONFORMITY .....                      | 7         |
| <b>2. TEST SITES .....</b>                                 | <b>8</b>  |
| 2.1 TEST LABORATORY .....                                  | 8         |
| 2.2 TEST FACILITY .....                                    | 8         |
| 2.3 TRACEABILITY .....                                     | 9         |
| 2.4 CALIBRATION .....                                      | 9         |
| 2.5 MEASUREMENT UNCERTAINTY .....                          | 9         |
| <b>3. GENERAL PRODUCT INFORMATION .....</b>                | <b>10</b> |
| 3.1 PRODUCT FUNCTION AND INTENDED USE .....                | 10        |
| 3.2 SYSTEM DETAILS AND RATINGS .....                       | 10        |
| 3.3 NOISE GENERATING AND NOISE SUPPRESSING PARTS .....     | 11        |
| 3.4 SUBMITTED DOCUMENTS .....                              | 11        |
| <b>4. TEST SET-UP AND OPERATION MODES .....</b>            | <b>12</b> |
| 4.1 PRINCIPLE OF CONFIGURATION SELECTION .....             | 12        |
| 4.2 CARRIER FREQUENCY AND CHANNEL .....                    | 12        |
| 4.3 TEST OPERATION AND TEST SOFTWARE .....                 | 13        |
| 4.4 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....      | 14        |
| 4.5 TEST SETUP DIAGRAM .....                               | 15        |
| <b>5. TEST RESULTS .....</b>                               | <b>16</b> |
| <b>5.1 TRANSMITTER REQUIREMENT &amp; TEST SUITES .....</b> | <b>16</b> |
| 5.1.1 Antenna Requirement .....                            | 16        |
| 5.1.2 Field Strength of Fundamental Emissions .....        | 17        |
| 5.1.3 6 dB Bandwidth and 99% Occupied Bandwidth .....      | 19        |
| 5.1.4 Radiated Spurious Emissions .....                    | 21        |
| <b>5.2 MAINS EMISSION .....</b>                            | <b>25</b> |
| 5.2.1 Mains Conducted Emission .....                       | 25        |

Prüfbericht - Nr.: **CN25HD9E 001**  
Test Report No.

Seite 5 von 26  
Page 5 of 26

**APPENDIX A - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION**

**APPENDIX SP - PHOTOGRAPHS OF TEST SETUP**

**APPENDIX EP - PHOTOGRAPHS OF EUT**

Prüfbericht - Nr.: **CN25HD9E 001**  
Test Report No.

Seite 6 von 26  
Page 6 of 26

## HISTORY OF THIS TEST REPORT

| Revision | Description      | Date Issued |
|----------|------------------|-------------|
| R01      | Original Release | 2025-07-17  |

# 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 47CFR Part 15: Subpart C Section 15.223 |
| FCC 47CFR Part 2: Subpart J Section 2.1049  |
| ANSI C63.10:2013                            |

## 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) | $\pm 1.32$ dB |
| Radiated Emission (200 MHz ~ 1 GHz)  | $\pm 1.31$ dB |
| Radiated Emission (1 GHz ~ 18 GHz)   | $\pm 1.53$ dB |
| Radiated Emission (18 GHz ~ 40 GHz)  | $\pm 2.50$ dB |
| Mains Conducted Emission             | $\pm 1.65$ dB |

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The ASSY PA15R RF is an Electronic Article Surveillance (EAS) Gate designed to be used in stores, as an anti-pilfering device located at the point of sales. The ASSY PA15R RF is able to read EAS tags in the 8.2MHz range.

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 | i15 Go Light Grey |
| Type Identification         | ASSY PA15R RF     |
| FCC ID                      | CGDPA15RRF        |

##### Technical Specification of EUT

| Item                | EUT information         |
|---------------------|-------------------------|
| Operating Frequency | 7565 kHz to 8571.25 kHz |
| Channel Number      | 24                      |
| Operation Voltage   | 56Vdc                   |
| Modulation          | ASK                     |
| Field Strength      | 75.16 (dBuV/m) @ 3m     |
| Antenna Information | Refer to 5.1.1          |
| Accessory Device    | Refer to 4.4            |

### 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.

**Table for Parameters of Test Software Setting**

| Mode | Channel Frequency (kHz) |         |
|------|-------------------------|---------|
|      | 7565                    | 8571.25 |
| SRD  | Default                 | Default |

### 4.2 Carrier Frequency and Channel

| Channel | Freq. (kHz) | Channel | Freq. (kHz) | Channel | Freq. (kHz) |
|---------|-------------|---------|-------------|---------|-------------|
| 1       | 7565.00     | 9       | 7915.00     | 17      | 8265.00     |
| 2       | 7608.75     | 10      | 7958.75     | 18      | 8308.75     |
| 3       | 7652.50     | 11      | 8002.50     | 19      | 8352.50     |
| 4       | 7696.25     | 12      | 8046.25     | 20      | 8396.25     |
| 5       | 7740.00     | 13      | 8090.00     | 21      | 8440.00     |
| 6       | 7783.75     | 14      | 8133.75     | 22      | 8483.75     |
| 7       | 7827.50     | 15      | 8177.50     | 23      | 8527.50     |
| 8       | 7871.25     | 16      | 8221.25     | 24      | 8571.25     |

## 4.3 Test Operation and Test Software

Setup for testing: The test software was configured through the web interface.

|               |       |
|---------------|-------|
| Test Software | None. |
|---------------|-------|

The samples were used as follows:  
A004006210-001

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

| EUT Configure Mode | Applicable To                      |                                         |                                         |                          | Description |
|--------------------|------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------|-------------|
|                    | Antenna Port Conducted Measurement | Radiated Spurious Emissions above 1 GHz | Radiated Spurious Emissions below 1 GHz | 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.

### Antenna Port Conducted Measurement

- ☒ 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 | Available Frequency (kHz) | Tested Frequency (kHz) | Modulation Type |
|--------------------|---------------------------|------------------------|-----------------|
| -                  | 7565 to 8571.25           | 7565, 8571.25          | ASK             |

### Radiated Spurious Emissions (Above 1 GHz)

- ☒ 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 | Available Frequency (kHz) | Tested Frequency (kHz) | Modulation Type |
|--------------------|---------------------------|------------------------|-----------------|
| -                  | 7565 to 8571.25           | 7565, 8571.25          | ASK             |

### Radiated Spurious Emissions (Below 1 GHz)

- ☒ 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 | Available Frequency (kHz) | Tested Frequency (kHz) | Modulation Type |
|--------------------|---------------------------|------------------------|-----------------|
| -                  | 7565 to 8571.25           | 7565 to 8571.25        | ASK             |

### Mains Conducted Emission Test

- ☒ 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 | Available Frequency (kHz) | Tested Frequency (kHz) | Modulation Type |
|--------------------|---------------------------|------------------------|-----------------|
| -                  | 7565 to 8571.25           | 7565 to 8571.25        | ASK             |

**Prüfbericht - Nr.: CN25HD9E 001**  
**Test Report No.**

Seite 14 von 26  
Page 14 of 26

#### Test Condition

| Test Item                                  | Ambient Temperature | Relative Humidity | Tested by   |
|--------------------------------------------|---------------------|-------------------|-------------|
| Conducted Measurement                      | 23.6-24.3 °C        | 53-55 %           | Ivan Chiang |
| Radiated Spurious Emissions<br>above 1 GHz | 23.6-24.3 °C        | 53-55 %           | Ivan Chiang |
| Radiated Spurious Emissions<br>below 1 GHz | 23.6-24.3 °C        | 53-55 %           | Ivan Chiang |
| Mains Conducted Emission                   | 22 °C               | 52 %              | Chuan Chu   |

## 4.4 Special Accessories and Auxiliary Equipment

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

### Accessory of EUT

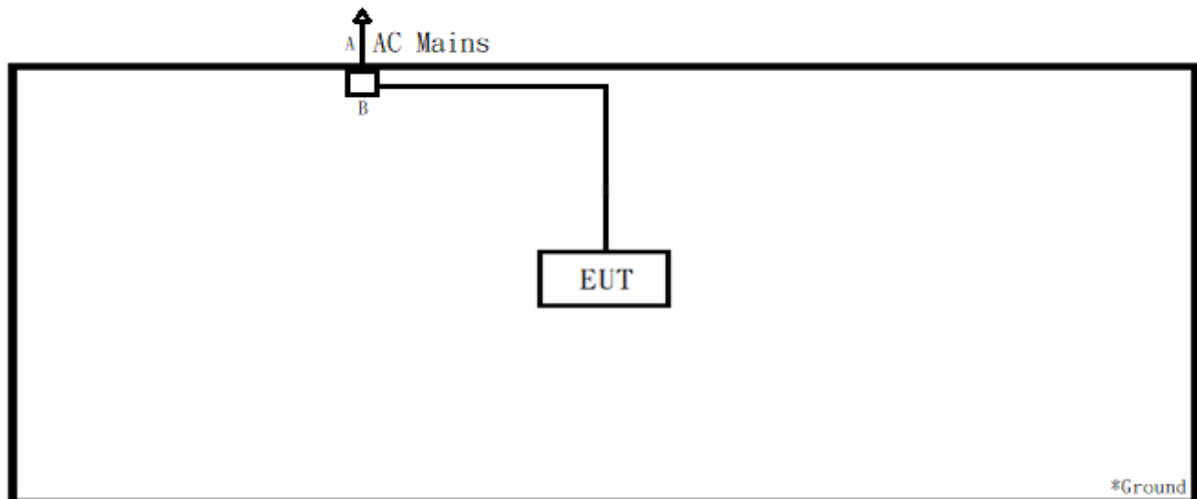
None.

### Support Unit

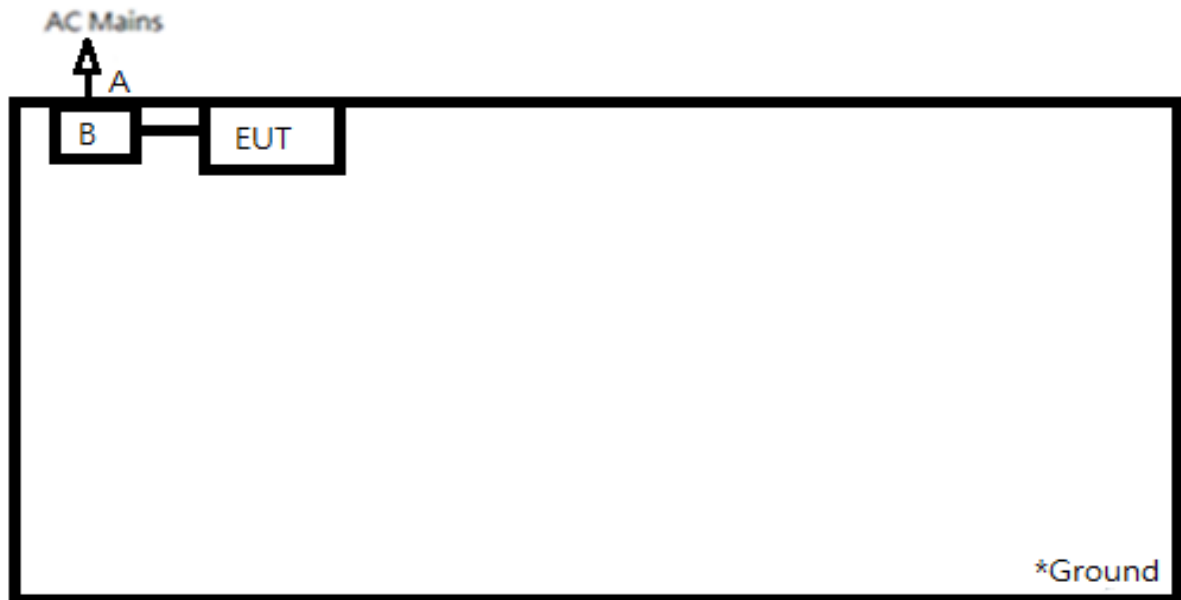
| Support Unit |                     |                              |                   |                |                                                            |
|--------------|---------------------|------------------------------|-------------------|----------------|------------------------------------------------------------|
| No           | Description         | Brand                        | Model             | Length<br>(cm) | Remark                                                     |
| A            | Power Cable         | -                            | -                 | 177            | --                                                         |
| B            | AC POWER<br>ADAPTER | POWER-WIN<br>TECHNOLOGY CORP | PW-085C-1Y560HPOE | -              | I/P: 100-240 Vac, 50/60<br>Hz, 1.5 A<br>O/P: 56 Vdc, 1.5 A |

## 4.5 Test Setup Diagram

<Radiated Spurious Emissions Mode>



<Mains Conducted Emission Mode>



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**Requirement** Use of approved antennas only.

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

| Brand Name | Model No.     | Antenna Type        |
|------------|---------------|---------------------|
| Nedap      | ASSY PA15R RF | Double Loop Antenna |

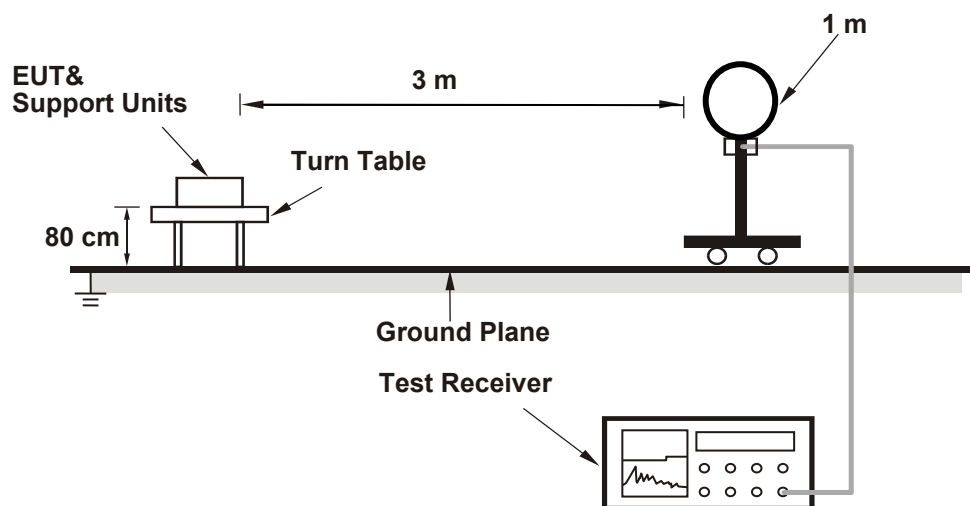
## 5.1.2 Field Strength of Fundamental Emissions

### Limit

The field strength of any emission within the band 1.705-10.0 MHz shall not exceed 100 microvolts/meter at a distance of 30 meters. However, if the bandwidth of the emission is less than 10% of the center frequency, the field strength shall not exceed 15 microvolts/meter or (the bandwidth of the device in kHz) divided by (the center frequency of the device in MHz) microvolts/meter at a distance of 30 meters, whichever is the higher level. For the purposes of this section, bandwidth is determined at the points 6 dB down from the modulated carrier. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in § 15.35(b) for limiting peak emissions apply.

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

### Test Setup



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

**Test Instruments**

Test Date: 2025/6/2 ~ 2025/7/17

| Kind of Equipment | Manufacturer | Type                   | S/N        | Calibration Date | Calibration Due Date |
|-------------------|--------------|------------------------|------------|------------------|----------------------|
| Receiver          | R&S          | ESR7                   | 102109     | 2025/2/13        | 2026/2/12            |
| Bilog Antenna     | SCHWARZBECK  | VULB-9168              | 00951      | 2025/4/8         | 2026/4/7             |
| LF-AMP            | Agilent      | 8447D                  | 2727A05146 | 2025/1/15        | 2026/1/14            |
| Test Software     | Audix E3     | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |
| Receiver          | R&S          | ESR7                   | 102109     | 2025/2/13        | 2026/2/12            |
| Loop Antenna      | SCHWARZBECK  | FMZB 1519B             | 00215      | 2024/12/11       | 2025/12/10           |
| Test Software     | Audix E3     | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |

**Test Procedures**

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations 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 9 kHz at frequency below 30 MHz.

**Test Results**

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Limit at 30m = 15 (uV/m)

\*\*Limit at 3m =  $20 \cdot \log(15) + 40 \log(30\text{m}/3\text{m})$  (dBuV/m)  
= 23.52+40 (dBuV/m)  
= 63.52 (dBuV/m)

Please refer to Appendix A.

**Prüfbericht - Nr.: CN25HD9E 001**  
*Test Report No.*

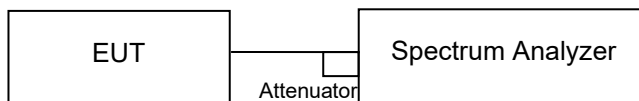
Seite 19 von 26  
 Page 19 of 26

### 5.1.3 6 dB Bandwidth and 99% Occupied Bandwidth

**Limit** N/A

**Kind of Test Site** Shielded room

**Test Setup**



#### Test Instruments

| Kind of Equipment | Manufacturer | Type       | S/N    | Calibration Date | Calibration Due Date | Test Date |          |
|-------------------|--------------|------------|--------|------------------|----------------------|-----------|----------|
|                   |              |            |        |                  |                      | From      | Until    |
| Receiver          | R&S          | ESR7       | 102109 | 2025/2/13        | 2026/2/12            | 2025/6/3  | 2025/6/4 |
| Loop Antenna      | SCHWARZBECK  | FMZB 1519B | 00215  | 2024/12/11       | 2025/12/10           | 2025/6/3  | 2025/6/4 |

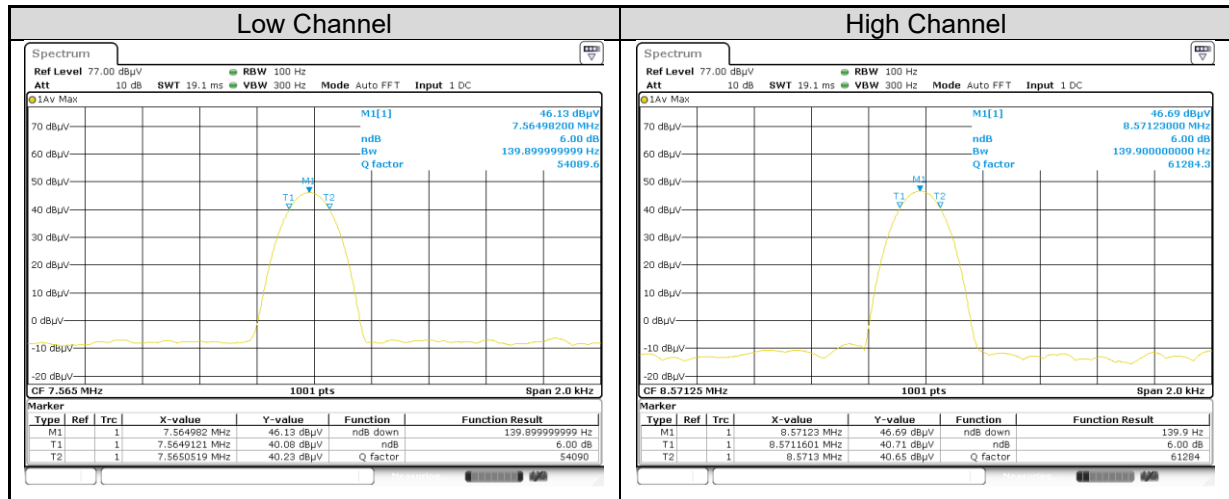
#### Test Procedure

- Set resolution bandwidth (RBW) = 100 Hz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- For 99% occupied bandwidth measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer.

## Test Results

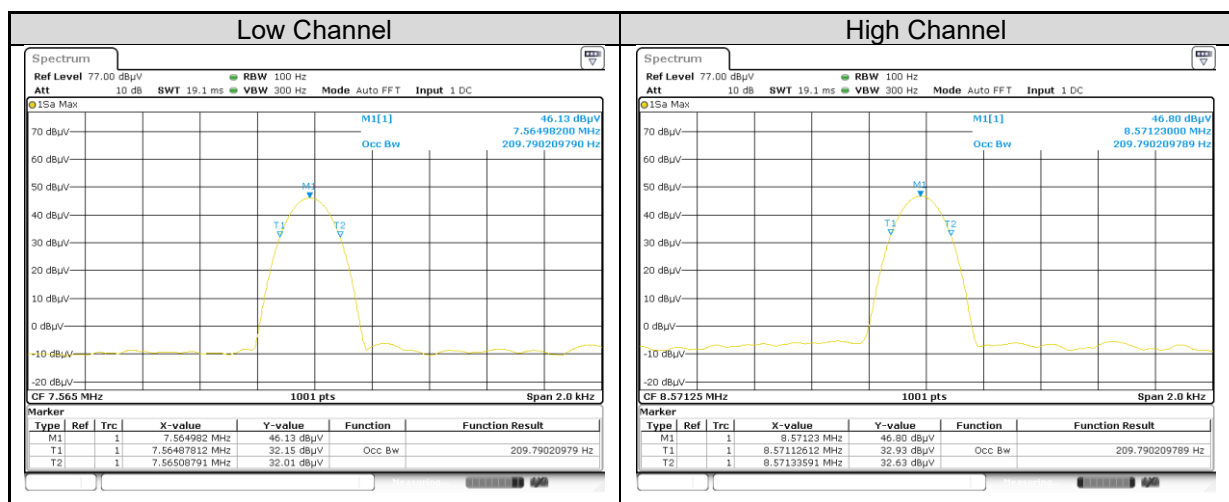
### <6 dB Bandwidth>

| Channel      | Channel Frequency (kHz) | 6 dB Bandwidth (Hz) |
|--------------|-------------------------|---------------------|
| Low Channel  | 7565                    | 139.90              |
| High Channel | 8571.25                 | 139.90              |



### <99% Occupied Bandwidth>

| Channel      | Channel Frequency (kHz) | 99% Occupied Bandwidth (Hz) |
|--------------|-------------------------|-----------------------------|
| Low Channel  | 7565                    | 209.79                      |
| High Channel | 8571.25                 | 209.79                      |



## 5.1.4 Radiated Spurious Emissions

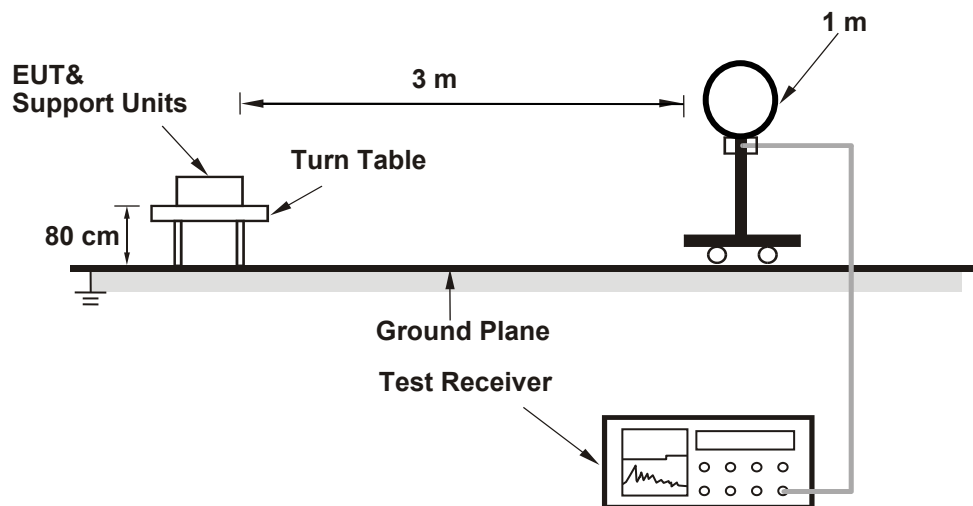
### Limit

The field strength of emissions outside of the band 1.705-10.0 MHz shall not exceed the general radiated emission limits in §15.209.

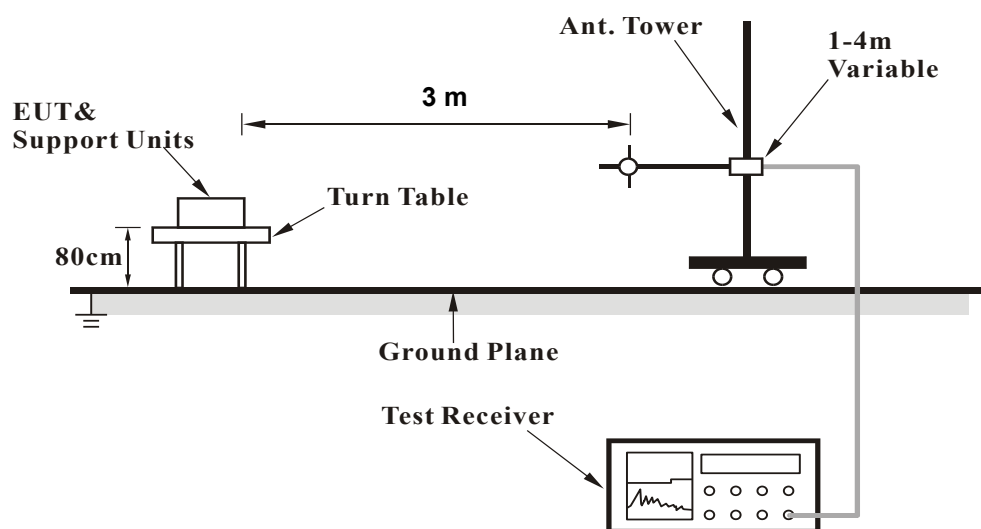
**Kind of Test Site** 3m Semi-Anechoic Chamber

### Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



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

Prüfbericht - Nr.: **CN25HD9E 001**  
Test Report No.

Seite 22 von 26  
Page 22 of 26

#### Test Instruments

Test Date: 2025/6/2

| Kind of Equipment | Manufacturer | Type                   | S/N        | Calibration Date | Calibration Due Date |
|-------------------|--------------|------------------------|------------|------------------|----------------------|
| Receiver          | R&S          | ESR7                   | 102109     | 2025/2/13        | 2026/2/12            |
| Bilog Antenna     | SCHWARZBECK  | VULB-9168              | 00951      | 2025/4/8         | 2026/4/7             |
| LF-AMP            | Agilent      | 8447D                  | 2727A05146 | 2025/1/15        | 2026/1/14            |
| Test Software     | Audix E3     | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |
| Receiver          | R&S          | ESR7                   | 102109     | 2025/2/13        | 2026/2/12            |
| Loop Antenna      | SCHWARZBECK  | FMZB 1519B             | 00215      | 2024/12/11       | 2025/12/10           |
| Test Software     | Audix E3     | 15914a_20191106<br>tuv | PK-001087  | N/A              | N/A                  |

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

- f. 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.
- g. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- h. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- i. 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.
- j. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

**Note:**

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

**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.
- 6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

**Prüfbericht - Nr.:** **CN25HD9E 001**  
*Test Report No.*

Seite 24 von 26  
Page 24 of 26

#### Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

## 5.2 Mains Emission

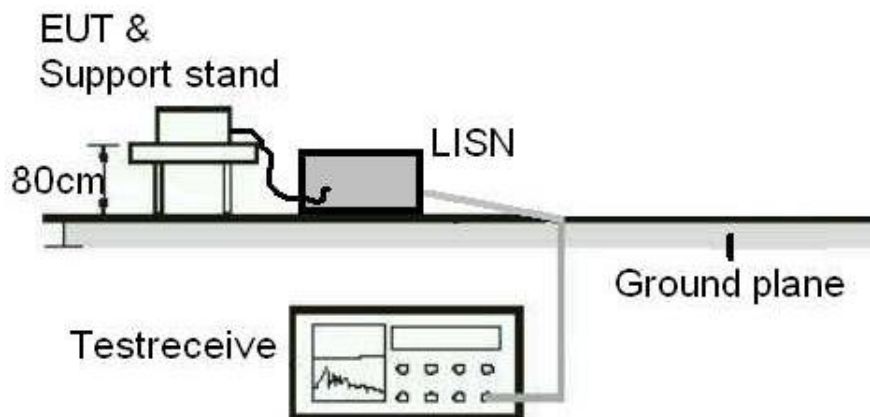
### 5.2.1 Mains Conducted Emission

#### 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

Test Date: 2025/6/2

| Kind of Equipment  | Manufacturer    | Type   | S/N    | Calibration Date | Calibration Due Date |
|--------------------|-----------------|--------|--------|------------------|----------------------|
| Two-Line V-Network | Rohde & Schwarz | ENV216 | 101938 | 2024/10/22       | 2025/10/21           |
| EMI Test Receiver  | R&S             | ESCI   | 101094 | 2024/11/25       | 2025/11/24           |

#### 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.

## Fundamental Emissions, 7MHz ~ 9MHz

## Open

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Level (dBuV/m)

Date: 2025-07-17

Frequency (MHz)

|   | Freq | Level  | Read  | Limit  | Over  | APos   | TPos | Remark      | Pol/Phase | Note |
|---|------|--------|-------|--------|-------|--------|------|-------------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dBuV/m | dB    | cm     | deg  |             |           |      |
| 1 | 7.50 | 52.93  | 32.14 | 20.79  | 63.52 | -10.59 | 100  | 0 Average   | Open      |      |
| 2 | 7.50 | 68.36  | 47.57 | 20.79  | 63.52 | -15.16 | 100  | 0 Peak      | Open      |      |
| 3 | 8.10 | 55.98  | 35.18 | 20.80  | 63.52 | -7.54  | 100  | 360 Average | Open      |      |
| 4 | 8.10 | 71.48  | 50.68 | 20.80  | 63.52 | -12.04 | 100  | 360 Peak    | Open      |      |
| 5 | 8.60 | 54.62  | 33.81 | 20.81  | 63.52 | -8.90  | 100  | 360 Average | Open      |      |
| 6 | 8.60 | 70.00  | 49.19 | 20.81  | 63.52 | -13.52 | 100  | 360 Peak    | Open      |      |

## Close

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Level (dBuV/m)

Date: 2025-07-17

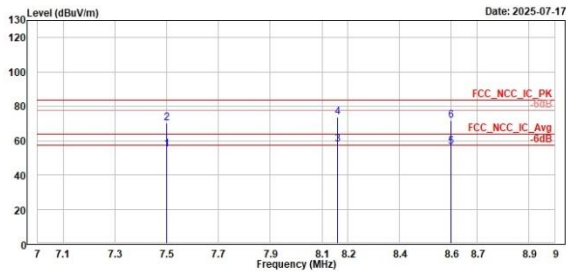
Frequency (MHz)

|   | Freq | Level  | Read  | Limit  | Over  | APos   | TPos | Remark      | Pol/Phase | Note |
|---|------|--------|-------|--------|-------|--------|------|-------------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dBuV/m | dB    | cm     | deg  |             |           |      |
| 1 | 7.50 | 54.26  | 33.47 | 20.79  | 63.52 | -9.26  | 100  | 66 Average  | Close     |      |
| 2 | 7.50 | 69.69  | 48.90 | 20.79  | 63.52 | -13.83 | 100  | 66 Peak     | Close     |      |
| 3 | 8.14 | 59.76  | 38.96 | 20.80  | 63.52 | -3.76  | 100  | 103 Average | Close     |      |
| 4 | 8.14 | 75.16  | 54.36 | 20.80  | 63.52 | -8.36  | 100  | 103 Peak    | Close     |      |
| 5 | 8.60 | 58.96  | 38.15 | 20.81  | 63.52 | -4.56  | 100  | 121 Average | Close     |      |
| 6 | 8.60 | 74.35  | 53.54 | 20.81  | 63.52 | -9.17  | 100  | 121 Peak    | Close     |      |

## Ground



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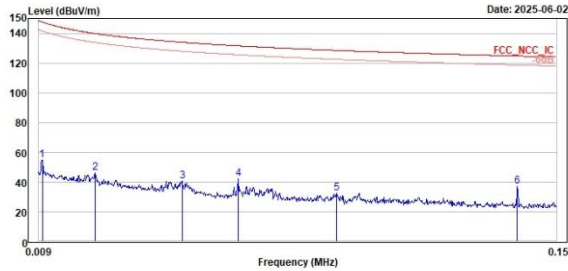
|   | Freq | Level  | Read  | Limit | Over   | APos   | TPos | Remark      | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|-------------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | cm   | deg         |           |      |
| 1 | 7.50 | 54.64  | 33.85 | 20.79 | 63.52  | -8.88  | 100  | 177 Average | Ground    |      |
| 2 | 7.50 | 70.06  | 49.27 | 20.79 | 83.52  | -13.46 | 100  | 177 Peak    | Ground    |      |
| 3 | 8.16 | 57.86  | 37.06 | 20.80 | 63.52  | -5.66  | 100  | 360 Average | Ground    |      |
| 4 | 8.16 | 73.51  | 52.71 | 20.80 | 83.52  | -10.01 | 100  | 360 Peak    | Ground    |      |
| 5 | 8.60 | 56.25  | 35.44 | 20.81 | 63.52  | -7.27  | 100  | 174 Average | Ground    |      |
| 6 | 8.60 | 71.58  | 50.77 | 20.81 | 83.52  | -11.94 | 100  | 174 Peak    | Ground    |      |

## Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

### 9kHz~150kHz (Close)



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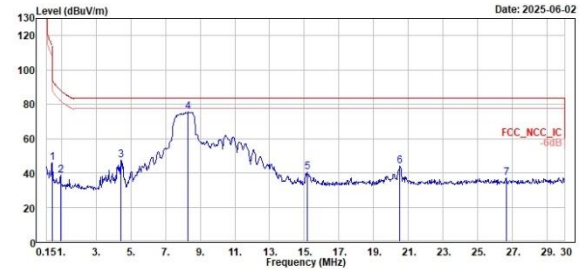


|   | Freq | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase | Note |
|---|------|--------|-------|-------|--------|--------|------|------|------|--------|-----------|------|
|   | MHz  | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |        |           |      |
| 1 | 0.01 | 54.74  | 36.62 | 18.12 | 147.60 | -92.86 | 100  | 233  | Peak | Close  |           |      |
| 2 | 0.02 | 46.15  | 26.41 | 19.74 | 139.85 | -93.70 | 100  | 190  | Peak | Close  |           |      |
| 3 | 0.05 | 40.63  | 21.61 | 19.02 | 133.96 | -93.33 | 100  | 213  | Peak | Close  |           |      |
| 4 | 0.06 | 42.01  | 23.89 | 18.12 | 131.57 | -89.56 | 100  | 305  | Peak | Close  |           |      |
| 5 | 0.09 | 32.73  | 14.71 | 18.02 | 128.49 | -95.76 | 100  | 273  | Peak | Close  |           |      |
| 6 | 0.14 | 36.98  | 18.71 | 18.27 | 124.72 | -87.74 | 100  |      |      |        |           |      |

### 150kHz~30MHz (Close)



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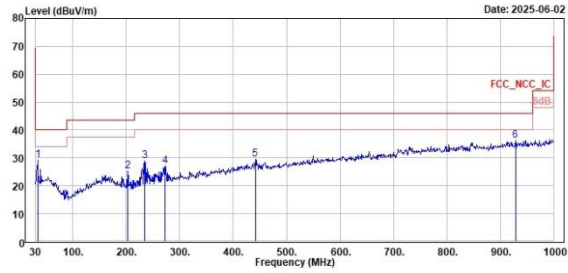
|   | Freq  | Level  | Read  | Level | Factor | Limit  | Over | APos | TPos | Remark | Pol/Phase  | Note |
|---|-------|--------|-------|-------|--------|--------|------|------|------|--------|------------|------|
|   | MHz   | dBuV/m | dBuV  | dB/m  | dBuV/m | dB     | dB   | cm   | deg  |        |            |      |
| 1 | 0.48  | 45.90  | 27.16 | 18.74 | 114.01 | -68.11 | 100  | 259  | Peak | Close  |            |      |
| 2 | 0.96  | 38.43  | 19.60 | 18.83 | 88.00  | -49.57 | 100  | 259  | Peak | Close  |            |      |
| 3 | 4.42  | 47.66  | 28.16 | 19.50 | 83.52  | -35.86 | 100  | 87   | Peak | Close  |            |      |
| 4 | 8.30  | 75.41  | 54.60 | 20.81 | 83.52  | -8.11  | 100  | 110  | Peak | Close  | Fundamenta |      |
| 5 | 15.16 | 40.49  | 18.83 | 21.66 | 83.52  | -43.03 | 100  | 192  | Peak | Close  |            |      |
| 6 | 20.51 | 43.98  | 21.19 | 22.79 | 83.52  | -30.54 | 100  | 70   | Peak | Close  |            |      |
| 7 | 26.63 | 36.96  | 13.98 | 22.98 | 83.52  | -46.56 | 100  | 273  | Peak | Close  |            |      |

## Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

### Horizontal



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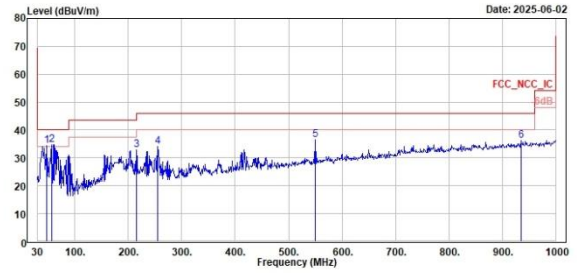


|   | Freq       | Level  | Read  | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase  | Note |
|---|------------|--------|-------|--------|--------|--------|------|------|--------|------------|------|
|   | MHz        | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |        |            |      |
| 1 | 33.889000  | 29.24  | 36.66 | -7.42  | 40.00  | -10.76 | 400  | 160  | Peak   | Horizontal |      |
| 2 | 282.668000 | 25.21  | 33.27 | -8.06  | 43.50  | -18.29 | 400  | 325  | Peak   | Horizontal |      |
| 3 | 234.670000 | 28.99  | 35.63 | -6.64  | 46.00  | -17.01 | 300  | 90   | Peak   | Horizontal |      |
| 4 | 272.500000 | 27.21  | 32.91 | -5.70  | 46.00  | -18.79 | 200  | 212  | Peak   | Horizontal |      |
| 5 | 441.280000 | 29.58  | 31.20 | -1.62  | 46.00  | -16.42 | 100  | 168  | Peak   | Horizontal |      |
| 6 | 928.220000 | 36.08  | 29.00 | 6.28   | 46.00  | -9.92  | 191  | 360  | Peak   | Horizontal |      |

### Vertical



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|   | Freq       | Level  | Read  | Factor | Limit  | Over   | APos | TPos | Remark | Pol/Phase | Note |
|---|------------|--------|-------|--------|--------|--------|------|------|--------|-----------|------|
|   | MHz        | dBuV/m | dBuV  | dB/m   | dBuV/m | dB     | cm   | deg  |        |           |      |
| 1 | 46.490000  | 34.52  | 40.43 | -5.91  | 40.00  | -5.48  | 100  | 9    | Peak   | Vertical  |      |
| 2 | 57.160000  | 34.69  | 40.56 | -5.87  | 40.00  | -5.31  | 100  | 273  | Peak   | Vertical  |      |
| 3 | 215.270000 | 32.79  | 40.92 | -8.13  | 43.50  | -10.71 | 100  | 328  | Peak   | Vertical  |      |
| 4 | 255.040000 | 34.11  | 40.28 | -6.17  | 46.00  | -11.89 | 100  | 222  | Peak   | Vertical  |      |
| 5 | 549.920000 | 36.45  | 36.23 | 0.22   | 46.00  | -9.55  | 100  | 32   | Peak   | Vertical  |      |
| 6 | 935.010000 | 36.17  | 29.63 | 6.54   | 46.00  | -9.83  | 400  | 26   | Peak   | Vertical  |      |

# Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

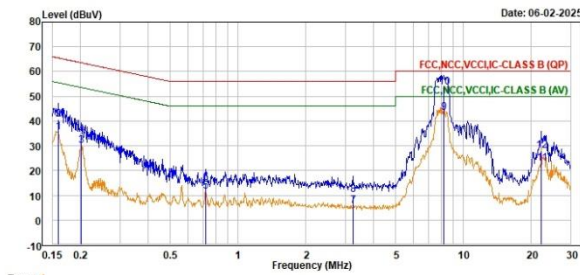
## Worst Band

### (Line)

### (Neutral)



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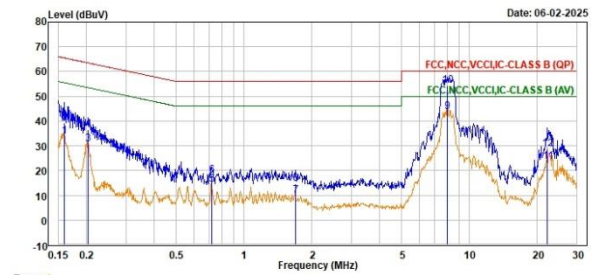


Trace: 1

|    | Freq  | Level | Read         | Limit | Over  |                |                |
|----|-------|-------|--------------|-------|-------|----------------|----------------|
|    | MHz   | dBuV  | Level Factor | Line  | Limit | Remark         | Pol/Phase Note |
|    | MHz   | dBuV  | dB           | dB    | dB    |                |                |
| 1  | 0.16  | 35.58 | 25.96        | 9.62  | 55.54 | -19.96 Average | line1          |
| 2  | 0.16  | 40.77 | 31.15        | 9.62  | 65.54 | -24.77 QP      | line1          |
| 3  | 0.20  | 29.97 | 20.35        | 9.62  | 53.56 | -23.59 Average | line1          |
| 4  | 0.20  | 34.64 | 25.02        | 9.62  | 63.56 | -28.92 QP      | line1          |
| 5  | 0.72  | 11.42 | 1.79         | 9.63  | 46.00 | -34.58 Average | line1          |
| 6  | 0.72  | 15.07 | 5.44         | 9.63  | 56.00 | -40.93 QP      | line1          |
| 7  | 3.23  | 5.57  | -4.11        | 9.68  | 46.00 | -40.43 Average | line1          |
| 8  | 3.23  | 10.18 | 0.50         | 9.68  | 56.00 | -45.82 QP      | line1          |
| 9  | 8.21  | 43.40 | 33.67        | 9.73  | 50.00 | -6.60 Average  | line1          |
| 10 | 8.21  | 53.79 | 44.06        | 9.73  | 60.00 | -6.21 QP       | line1          |
| 11 | 22.25 | 22.69 | 12.97        | 9.72  | 50.00 | -27.31 Average | line1          |
| 12 | 22.25 | 27.84 | 18.12        | 9.72  | 60.00 | -32.16 QP      | line1          |



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Trace: 1

|    | Freq  | Level | Read         | Limit | Over  |                |                |
|----|-------|-------|--------------|-------|-------|----------------|----------------|
|    | MHz   | dBuV  | Level Factor | Line  | Limit | Remark         | Pol/Phase Note |
|    | MHz   | dBuV  | dB           | dB    | dB    |                |                |
| 1  | 0.16  | 33.88 | 24.25        | 9.63  | 55.54 | -21.66 Average | neutral        |
| 2  | 0.16  | 39.38 | 29.75        | 9.63  | 65.54 | -26.16 QP      | neutral        |
| 3  | 0.20  | 30.82 | 21.20        | 9.62  | 53.47 | -22.65 Average | neutral        |
| 4  | 0.20  | 36.64 | 27.02        | 9.62  | 63.47 | -26.83 QP      | neutral        |
| 5  | 0.72  | 14.14 | 4.51         | 9.63  | 46.00 | -31.86 Average | neutral        |
| 6  | 0.72  | 17.91 | 8.28         | 9.63  | 56.00 | -38.09 QP      | neutral        |
| 7  | 1.69  | 9.94  | 0.28         | 9.66  | 46.00 | -36.06 Average | neutral        |
| 8  | 1.69  | 14.52 | 4.86         | 9.66  | 56.00 | -41.48 QP      | neutral        |
| 9  | 8.01  | 43.73 | 33.97        | 9.76  | 50.00 | -6.27 Average  | neutral        |
| 10 | 8.01  | 54.24 | 44.48        | 9.76  | 60.00 | -5.76 QP       | neutral        |
| 11 | 22.25 | 23.52 | 13.67        | 9.85  | 50.00 | -26.48 Average | neutral        |
| 12 | 22.25 | 28.71 | 18.86        | 9.85  | 60.00 | -31.29 QP      | neutral        |