



## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSEM240700194601

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# TEST REPORT

**Application No.:** KSEM2407001946AT  
**Applicant:** Qingdao MicroSense Intelligent Technology Co.,Ltd  
**Address of Applicant:** Room 803, Floor 8, Building F, Innovation Park II, No.1, Keyuan Wei 1st Road, Laoshan District, Qingdao, Shandong, China  
**Manufacturer:** Qingdao MicroSense Intelligent Technology Co.,Ltd  
**Address of Manufacturer:** Room 803, Floor 8, Building F, Innovation Park II, No.1, Keyuan Wei 1st Road, Laoshan District, Qingdao, Shandong, China  
**Factory:** Qingdao MicroSense Intelligent Technology Co.,Ltd  
**Address of Factory:** Room 803, Floor 8, Building F, Innovation Park II, No.1, Keyuan Wei 1st Road, Laoshan District, Qingdao, Shandong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** 3D TOF CAMERA  
**Model No.:** NYX650,NYX650S,NYX650L,NYX650N,NYX650H,  
NYX660,NYX660S,NYX660L,NYX660N,NYX660H ♣  
**♣** Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** Vzense  
**Standard(s) :** EN IEC 61000-6-4: 2019  
EN IEC 61000-6-2: 2019  
**Date of Receipt:** 2024-07-29  
**Date of Test:** 2024-08-13 to 2024-08-16  
**Date of Issue:** 2024-08-21

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



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| <i>Revision Record</i> |                    |             |               |
|------------------------|--------------------|-------------|---------------|
| <i>Version</i>         | <i>Description</i> | <i>Date</i> | <i>Remark</i> |
| 00                     | Original           | 2024-08-21  | /             |
|                        |                    |             |               |
|                        |                    |             |               |

|                                 |  |                                   |  |  |
|---------------------------------|--|-----------------------------------|--|--|
| <b>Authorized for issue by:</b> |  |                                   |  |  |
| <b>Tested By</b>                |  | <i>Lee Li</i>                     |  |  |
|                                 |  | _____<br>Lee Li /Project Engineer |  |  |
| <b>Approved By</b>              |  | <i>Terry Hou</i>                  |  |  |
|                                 |  | _____<br>Terry Hou /Reviewer      |  |  |

## 2 Test Summary

| Emission Part  |                        |                            |             |        |
|--|------------------------|----------------------------|-------------|--------|
| Item   | Standard               | Method                     | Requirement | Result |
| Conducted Emissions at DC Power Port (150kHz-30MHz)      | EN IEC 61000-6-4: 2019 | CISPR 16-2-1: 2014+A1:2017 | Table A.1   | Pass   |
| Conducted Emissions at Wired Network Port (150kHz-30MHz) |                        | CISPR 32:2015              | Table 5     | Pass   |
| Radiated Emissions (30MHz-1GHz)                          |                        | CISPR 16-2-3: 2016         | Table 3     | Pass   |
| Radiated Emissions (Above 1GHz)                          |                        | CISPR 16-2-3: 2016         | Table 3     | Pass   |

| Immunity Part                                      |                        |                           |  |        |
|--|------------------------|---------------------------|--|--------|
| Item   | Standard               | Method                    | Requirement  | Result |
| Electrostatic Discharge                            | EN IEC 61000-6-2: 2019 | EN 61000-4-2:2009         | ±4kV Contact Discharge, ±8kV Air Discharge                                     | Pass   |
| Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)        |                        | EN IEC 61000-4-3: 2020    | 80MHz to 1GHz 10V/m, 80%, 1kHz Amp. Mod. 1.4 to 6GHz 3V/m, 80%, 1kHz Amp. Mod. | Pass   |
| Electrical Fast Transients Burst at DC Power Port  |                        | EN 61000-4-4:2012         | 2kV 5/50ns Tr/Td 5kHz or 100kHz Repetition Frequency                           | Pass   |
| Electrical Fast Transients Burst at Signal Port    |                        | EN 61000-4-4:2012         | 1kV 5/50ns Tr/Td 5kHz or 100kHz Repetition Frequency                           | Pass   |
| Surge at DC Power Port                             |                        | EN 61000-4-5:2014+A1:2017 | 1.2/50µs Tr/Td , 0.5kV Line to Line , 1kV Line to Ground                       | Pass   |
| Surge at Signal Port                               |                        | EN 61000-4-5:2014+A1:2017 | 1.2/50µs Tr/Td , 1kV Line to Ground  | Pass   |
| Conducted Immunity at DC Power Port (150kHz-80MHz) |                        | EN 61000-4-6:2014         | 10Vrms (emf),80%,1kHz Amp. Mod.  | Pass   |
| Conducted Immunity at Signal Port (150kHz-80MHz)   |                        | EN 61000-4-6:2014         | 10Vrms (emf),80%,1kHz Amp. Mod.  | Pass   |
| Power Frequency Magnetic Field                     |                        | EN 61000-4-8:2010         | 50Hz/60Hz 30A/m  | Pass   |

**Declaration of EUT Family Grouping:**

There are series models mentioned in this report and they are the identical in electrical and electronic characters. Only the model NYX650, NYX660 was tested since their differences were the model number and appearance.

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## 4 General Information

### 4.1 Details of E.U.T.

|               |           |
|---------------|-----------|
| Power supply: | DC 12-24V |
|---------------|-----------|

### 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Notebook    | LENOVO       | K27       | EB24537645 |

### 4.3 Measurement Uncertainty & Decision Rule

#### Measurement Uncertainty:

| No. | Item   | Measurement Uncertainty<br>( $U_{LAB}$ ) * | $U_{CISPR}$             |
|-----|--|--|-------------------------|
| 1   | Conducted Emission<br>at mains port using AMN                | 2.4dB (9kHz to 150kHz)                     | 3.8dB (9kHz to 150kHz)  |
|     |  | 2.2dB (150kHz to 30MHz)                    | 3.4dB (150kHz to 30MHz) |
| 2   | Conducted Emission<br>at telecommunication port using<br>AAN | 4.0 dB (150kHz to 30MHz)                   | 5.0dB (150kHz to 30MHz) |
| 3   | Radiated Power   | 3.2dB                                      | 4.5dB (30MHz to 300MHz) |
| 4   | Radiated Emission (10m)                                      | 4.1 dB                                     | 6.3dB (30MHz-1GHz)      |
| 5   | Radiated Emission (3m)                                       | 4.6 dB (30MHz-1GHz)                        | 6.3dB (30MHz-1GHz)      |
|     |  | 5.0dB (1GHz-6GHz)                          | 5.2dB (1GHz-6GHz)       |
|     |  | 5.2dB (6GHz-18GHz)                         | 5.5dB (6GHz-18GHz)      |
|     |  | 5.3dB (18GHz-40GHz)                        | N/A                     |

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

#### Decision Rule:

- CISPR 16-4-2 for emission measurements is as below described.  
Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.
- $U_{LAB}$  less than  $U_{CISPR}$ , therefore:
  - compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit.
  - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- For immunity testing no decision rule is applicable.

#### **4.4 Test Location**

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

#### **4.5 Test Facility**

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

• **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

#### **4.6 Deviation from Standards**

None

#### **4.7 Abnormalities from Standard Conditions**

None

## 5 Equipment List

| <b>Conducted Emissions at DC Power Port (150kHz-30MHz)</b> |              |            |               |            |              |
|--|--------------|------------|---------------|------------|--------------|
| Equipment  | Manufacturer | Model No.  | Inventory No. | Cal Date   | Cal Due Date |
| EMI TEST RECEIVER  | R&S          | ESCI       | KS301101      | 03/19/2024 | 03/18/2025   |
| TWO-LINE V-NETWORK   | R&S          | ENV216     | KS301197      | 01/15/2024 | 01/14/2025   |
| V (V-LISN)   | SCHWARZBECK  | NNLK 8129  | KS301091      | 01/15/2024 | 01/14/2025   |
| Pulse LIMITER  | R&S          | ESH3-Z2    | KUS1902E001   | 01/15/2024 | 01/14/2025   |
| Software   | Faratronic   | EZ_EMV-3A1 | N/A           | N/A        | N/A          |

| <b>Conducted Emissions at Wired Network Port (150kHz-30MHz)</b> |              |                 |               |            |              |
|---|--------------|-----------------|---------------|------------|--------------|
| Equipment   | Manufacturer | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| EMI TEST RECEIVER   | R&S          | ESCI            | KS301101      | 03/19/2024 | 03/18/2025   |
| TWO-LINE V-NETWORK  | R&S          | ENV216          | KS301197      | 01/15/2024 | 01/14/2025   |
| V (V-LISN)  | SCHWARZBECK  | NNLK 8129       | KS301091      | 01/15/2024 | 01/14/2025   |
| Pulse LIMITER   | R&S          | ESH3-Z2         | KUS1902E001   | 01/15/2024 | 01/14/2025   |
| CISPR22 FOUR BALANCED TELECOM PARIS ISN                         | FCC          | FCC-TLISN-T2-02 | KS301144      | 10/20/2023 | 10/19/2024   |
| COUPLING AND DECOUPLING NETWORK                                 | TESEQ        | ISN ST08        | KS301171      | 01/15/2024 | 01/14/2025   |
| IMPEDANCE STABILIZATION NETWORK                                 | TESEQ        | ISN T800        | KS301185      | 10/20/2023 | 10/19/2024   |
| IMPEDANCE STABILIZATION NETWORK                                 | TESEQ        | ISN T8-CAT6     | KS301285      | 10/20/2023 | 10/19/2024   |
| RF CURRENT PROBE  | FCC          | F-65A           | CZ301012      | 01/15/2024 | 01/14/2025   |
| Software  | Faratronic   | EZ_EMV-3A1      | N/A           | N/A        | N/A          |

| <b>Radiated Emissions (30MHz-1GHz)</b> |              |            |               |            |              |
|--|--------------|------------|---------------|------------|--------------|
| Equipment                              | Manufacturer | Model No.  | Inventory No. | Cal Date   | Cal Due Date |
| EMI Test Receiver                      | R&S          | ESCI       | KS301196      | 08/24/2023 | 08/23/2024   |
| Antenna                                | TESEQ        | CBL 6112D  | KUS1806E006   | 03/23/2024 | 03/22/2025   |
| Software                               | Faratronic   | EZ_EMV 3A1 | N/A           | N/A        | N/A          |

| <b>Radiated Emissions (Above 1GHz)</b> |                    |           |               |            |              |
|--|--------------------|-----------|---------------|------------|--------------|
| Equipment                              | Manufacturer       | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Spectrum Analyzer                      | R&S                | FSU26     | KS301206      | 03/19/2024 | 03/18/2025   |
| Preamplifier                           | PANSHAN TECHNOLOGY | LNA:1~18G | KSEM010-2     | 01/15/2024 | 01/14/2025   |



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|              |             |                  |          |            |            |
|--------------|-------------|------------------|----------|------------|------------|
| Horn-antenna | SCHWARZBECK | BBHA9120D        | KS301079 | 03/19/2024 | 03/18/2025 |
| Software     | Faratronic  | EZ_EM C-v<br>3A1 | N/A      | N/A        | N/A        |

### Electrostatic Discharge

| Equipment     | Manufacturer | Model No.   | Inventory No. | Cal Date   | Cal Due Date |
|---------------|--------------|-------------|---------------|------------|--------------|
| ESD Simulator | EM TEST      | DITO 509030 | KS301147      | 01/15/2024 | 01/14/2025   |

### Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

| Equipment                                  | Manufacturer | Model No.          | Inventory No. | Cal Date   | Cal Due Date |
|--|--------------|--------------------|---------------|------------|--------------|
| Synthesized Signal Generator               | AGILENT      | 83732B             | KS301183      | 01/15/2024 | 01/14/2025   |
| Laser probe interface                      | AR Worldwide | FI7000             | KS301193-2    | 03/19/2024 | 03/18/2025   |
| E-Field Sensor                             | AR Worldwide | FL7006 100K-6G     | KS301193-1    | 03/23/2024 | 03/22/2025   |
| Amplifier Research (80~1000MHz 150w)       | AR Worldwide | 150W1000M1         | KS301139      | 08/24/2023 | 08/23/2024   |
| Amplifier Research (1~6GHz 50w)            | AR Worldwide | 50S1G6M1           | KS301231      | 08/24/2023 | 08/23/2024   |
| Dual Directional Coupler (1-11G)           | AR Worldwide | C1-A47NFNF 35dB    | KS301193-5    | N.C.R      | N.C.R        |
| Dual Directional Coupler (80~1000MHz 400w) | AR Worldwide | DC6180             | KS301193-6    | N.C.R      | N.C.R        |
| RF POWER METER                             | BOONTON      | 4232A-01           | KS301022      | 03/19/2024 | 03/18/2025   |
| POWER SENSOR                               | BOONTON      | 51085              | H3010235-1    | 03/19/2024 | 03/18/2025   |
| POWER SENSOR                               | BOONTON      | 51085              | H3010235-2    | 03/19/2024 | 03/18/2025   |
| Antenna                                    | AR Worldwide | TP1000A            | CZ301029      | N.C.R      | N.C.R        |
| Software                                   | AR           | emc ware-v 3.2.0.4 | N/A           | N/A        | N/A          |
| antenna                                    | SCHWARZBECK  | VHBD 9134+BBA 9106 | KS301236      | N.C.R      | N.C.R        |
| Amplifier                                  | AR           | 1200A225A          | KSEM018-1     | 08/24/2023 | 08/23/2024   |
| Amplifier                                  | AR           | 1000W1000G M1      | KSEM018-2     | 08/24/2023 | 08/23/2024   |
| Amplifier                                  | AR           | 125S1G2Z5M1        | KSEM018-3     | 08/24/2023 | 08/23/2024   |
| Coupling                                   | AR           | DC2500AM2          | KSEM018-4     | 08/24/2023 | 08/23/2024   |
| Coupling                                   | AR           | DC6280AM1          | KSEM018-5     | 08/24/2023 | 08/23/2024   |
| Coupling                                   | AR           | DC7144A            | KSEM018-6     | 08/24/2023 | 08/23/2024   |

### Electrical Fast Transients Burst at DC Power Port

| Equipment           | Manufacturer | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
|---------------------|--------------|---------------|---------------|------------|--------------|
| EMC Immunity Tester | EMC PARTNER  | Transient2000 | KS301188-1    | 08/24/2023 | 08/23/2024   |
| Coupling Network    | EMC PARTNER  | CN-EFT1000    | KS301188-3    | 08/24/2023 | 08/23/2024   |
| Burst Generator     | SANKI        | EFT-0404S     | KUS2009M002-7 | 12/24/2023 | 12/23/2024   |
| Coupling and        | SANKI        | CDN-4350      | KUS2009M002   | 08/11/2023 | 08/10/2024   |



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|--------------------|--|--|----|--|--|
| Decoupling Network |  |  | -8 |  |  |
|--------------------|--|--|----|--|--|

### Electrical Fast Transients Burst at Signal Port

| Equipment                       | Manufacturer | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
|---------------------------------|--------------|---------------|---------------|------------|--------------|
| EMC Immunity Tester             | EMC PARTNER  | Transient2000 | KS301188-1    | 08/24/2023 | 08/23/2024   |
| Coupling Network                | EMC PARTNER  | CN-EFT1000    | KS301188-3    | 08/24/2023 | 08/23/2024   |
| Burst Generator                 | SANKI        | EFT-0404S     | KUS2009M002-7 | 12/24/2023 | 12/23/2024   |
| Coupling and Decoupling Network | SANKI        | CDN-4350      | KUS2009M002-8 | 08/11/2023 | 08/10/2024   |

### Surge at DC Power Port

| Equipment                       | Manufacturer | Model No. | Inventory No. | Cal Date   | Cal Due Date |
|---------------------------------|--------------|-----------|---------------|------------|--------------|
| EMC Immunity Tester             | EMC PARTNER  | TRA2006   | KS301188-1    | 08/24/2023 | 08/23/2024   |
| Coupling and Decoupling Network | EMC PARTNER  | CDN-UTP8  | KS301188-2    | 08/24/2023 | 08/23/2024   |
| Surge Generator                 | SANKI        | LSG-0506S | KUS2009M002-5 | 08/11/2023 | 08/10/2024   |
| Coupling and Decoupling Network | SANKI        | CDN-5350  | KUS2009M002-6 | 08/11/2023 | 08/10/2024   |

### Surge at Signal Port

| Equipment                       | Manufacturer | Model No. | Inventory No. | Cal Date   | Cal Due Date |
|---------------------------------|--------------|-----------|---------------|------------|--------------|
| EMC Immunity Tester             | EMC PARTNER  | TRA2006   | KS301188-1    | 08/24/2023 | 08/23/2024   |
| Coupling and Decoupling Network | EMC PARTNER  | CDN-UTP8  | KS301188-2    | 08/24/2023 | 08/23/2024   |
| Surge Generator                 | SANKI        | LSG-0506S | KUS2009M002-5 | 08/11/2023 | 08/10/2024   |
| Coupling and Decoupling Network | SANKI        | CDN-5350  | KUS2009M002-6 | 08/11/2023 | 08/10/2024   |

### Conducted Immunity at DC Power Port (150kHz-80MHz)

| Equipment                                       | Manufacturer | Model No.    | Inventory No. | Cal Date   | Cal Due Date |
|---|--------------|--------------|---------------|------------|--------------|
| Test System for Conducted and Radiated Immunity | TESEQ        | NSG 4070B    | KSZ201705E003 | 01/15/2024 | 01/14/2025   |
| Amplifier                                       | TESEQ        | SCCXE75      | KSZ201705E004 | 01/15/2024 | 01/14/2025   |
| EM-Koppelzange                                  | SCHAFFNER    | KEMZ 801     | CZ301002      | 01/15/2024 | 01/14/2025   |
| Attenuator                                      | EURO MC      | 7860 ORGEVAL | CZ301084      | 03/19/2024 | 03/18/2025   |



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|---------------------------------------|------------|--------------------|---------------|------------|------------|
| Directional Coupler                   | HIGH POWER | C21A8              | CZ750021      | 08/24/2023 | 08/23/2024 |
| CDN (Coupling and Decoupling Network) | SCHAFFNER  | CDN M216           | CZ301085      | 03/19/2024 | 03/18/2025 |
| CDN (Coupling and Decoupling Network) | SCHAFFNER  | CDN M316           | CZ301025      | 03/19/2024 | 03/18/2025 |
| CDN (Coupling and Decoupling Network) | TESEQ      | CDN S751           | KS301184-2    | 03/19/2024 | 03/18/2025 |
| CDN (Coupling and Decoupling Network) | TESEQ      | CDN M116           | KS301184-1    | 03/19/2024 | 03/18/2025 |
| CDN                                   | TESEQ      | CDN T2-10S         | KS301286      | 03/19/2024 | 03/18/2025 |
| CDN                                   | TESEQ      | CDN T4-10S         | KS301287      | 03/19/2024 | 03/18/2025 |
| CDN                                   | 3Ctest     | CDNRJ45            | KS301288      | 08/11/2023 | 08/10/2024 |
| Current Clamp                         | TESEQ      | IP-DR250           | KS201703E001  | 01/15/2024 | 01/14/2025 |
| CDN                                   | TESEQ      | CDN M432           | KUS2003M001-1 | 01/15/2024 | 01/14/2025 |
| CDN                                   | TESEQ      | CDN M432-3LN       | KUS2003M001-2 | 01/15/2024 | 01/14/2025 |
| CDN                                   | TESEQ      | CDN M532           | KUS2003M001-3 | 01/15/2024 | 01/14/2025 |
| CDN                                   | TESEQ      | CDN M232           | KSZ201706E001 | 04/13/2024 | 04/12/2025 |
| CDN                                   | TESEQ      | CDN M332           | KSZ201706E002 | 03/19/2024 | 03/18/2025 |
| Software                              | TESEQ      | NSG 4070-v 1.3.0.1 | N/A           | N/A        | N/A        |

### Conducted Immunity at Signal Port (150kHz-80MHz)

| Equipment                                       | Manufacturer | Model No.    | Inventory No. | Cal Date   | Cal Due Date |
|---|--------------|--------------|---------------|------------|--------------|
| Test System for Conducted and Radiated Immunity | TESEQ        | NSG 4070B    | KSZ201705E003 | 01/15/2024 | 01/14/2025   |
| Amplifier                                       | TESEQ        | SCCXE75      | KSZ201705E004 | 01/15/2024 | 01/14/2025   |
| EM-Koppelzange                                  | SCHAFFNER    | KEMZ 801     | CZ301002      | 01/15/2024 | 01/14/2025   |
| Attenuator                                      | EURO MC      | 7860 ORGEVAL | CZ301084      | 03/19/2024 | 03/18/2025   |
| Directional Coupler                             | HIGH POWER   | C21A8        | CZ750021      | 08/24/2023 | 08/23/2024   |
| CDN (Coupling and Decoupling Network)           | SCHAFFNER    | CDN M216     | CZ301085      | 03/19/2024 | 03/18/2025   |
| CDN (Coupling and Decoupling Network)           | SCHAFFNER    | CDN M316     | CZ301025      | 03/19/2024 | 03/18/2025   |
| CDN (Coupling and Decoupling Network)           | TESEQ        | CDN S751     | KS301184-2    | 03/19/2024 | 03/18/2025   |
| CDN (Coupling and Decoupling Network)           | TESEQ        | CDN M116     | KS301184-1    | 03/19/2024 | 03/18/2025   |
| CDN   | TESEQ        | CDN T2-10S   | KS301286      | 03/19/2024 | 03/18/2025   |
| CDN   | TESEQ        | CDN T4-10S   | KS301287      | 03/19/2024 | 03/18/2025   |



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|               |        |                       |                   |            |            |
|---------------|--------|-----------------------|-------------------|------------|------------|
| CDN           | 3Ctest | CDNRJ45               | KS301288          | 08/11/2023 | 08/10/2024 |
| Current Clamp | TESEQ  | IP-DR250              | KS201703E00<br>1  | 01/15/2024 | 01/14/2025 |
| CDN           | TESEQ  | CDN M432              | KUS2003M001<br>-1 | 01/15/2024 | 01/14/2025 |
| CDN           | TESEQ  | CDN M432-<br>3LN      | KUS2003M001<br>-2 | 01/15/2024 | 01/14/2025 |
| CDN           | TESEQ  | CDN M532              | KUS2003M001<br>-3 | 01/15/2024 | 01/14/2025 |
| CDN           | TESEQ  | CDN M232              | KSZ201706E0<br>01 | 04/13/2024 | 04/12/2025 |
| CDN           | TESEQ  | CDN M332              | KSZ201706E0<br>02 | 03/19/2024 | 03/18/2025 |
| Software      | TESEQ  | NSG 4070-v<br>1.3.0.1 | N/A               | N/A        | N/A        |

### Power Frequency Magnetic Field

| Equipment               | Manufacturer | Model No. | Inventory No. | Cal Date   | Cal Due Date |
|-------------------------|--------------|-----------|---------------|------------|--------------|
| EMC Immunity Tester     | EMC PARTNER  | TRA2006   | KS301188-1    | 08/24/2023 | 08/23/2024   |
| Inductive Standard Coil | EMC PARTNER  | MF1000-1  | KS301188-4    | 05/07/2024 | 05/06/2025   |

### General used equipment

| Equipment                       | Manufacturer | Model No.    | Inventory No.   | Cal Date   | Cal Due Date |
|---------------------------------|--------------|--------------|---|------------|--------------|
| Digital Pressure Meter          | Mengde       | DYM3         | CZ750023  | 01/15/2024 | 01/14/2025   |
| Temperature & Humidity Recorder | JDRK         | RS-WS-N01-6J | KSEM024-1<br>KSEM024-2<br>KSEM024-3<br>KSEM024-6<br>KSEM024-7<br>KSEM024--8<br>KSEM024--9 | 03/19/2024 | 03/18/2025   |

## 6 Emission Test Results

### 6.1 Conducted Emissions at DC Power Port (150kHz-30MHz)

Test Requirement: EN IEC 61000-6-4: 2019  
 Test Method: CISPR 16-2-1: 2014+A1:2017

Limit:  
 0.15MHz -0.5MHz 89dB(μV) quasi-peak, 76dB(μV) average  
 0.5MHz -30MHz 83dB(μV) quasi-peak, 70dB(μV) average  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 150kHz to 30MHz  
 NOTE 1: The lower limit is applicable at the transition frequency.

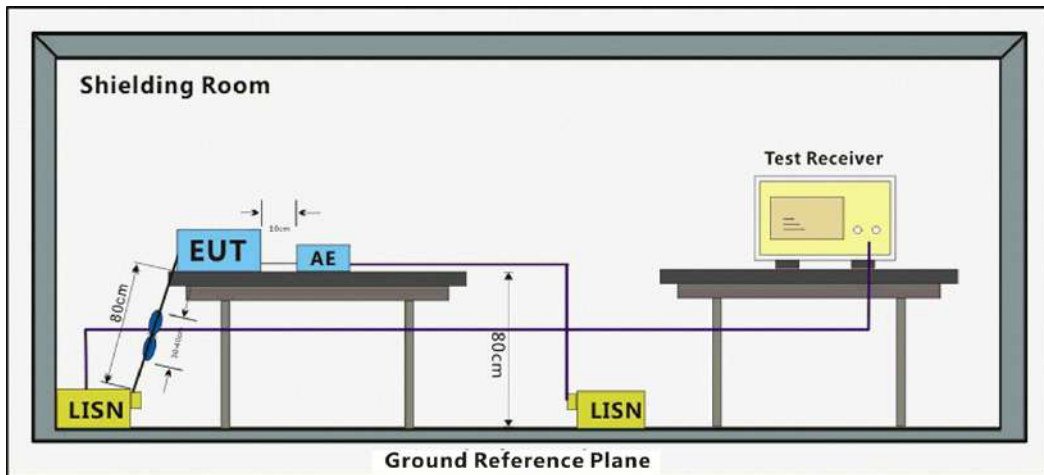
#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

#### 6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 6.1.3 Test Setup Diagram



#### 6.1.4 Measurement Procedure and Data

Frequency range: 150KHz-30MHz  
 An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.  
 The red line show in graphic is the limit in standard used in this section.  
 Measured Level = Read level + Cable Loss + LISN Factor

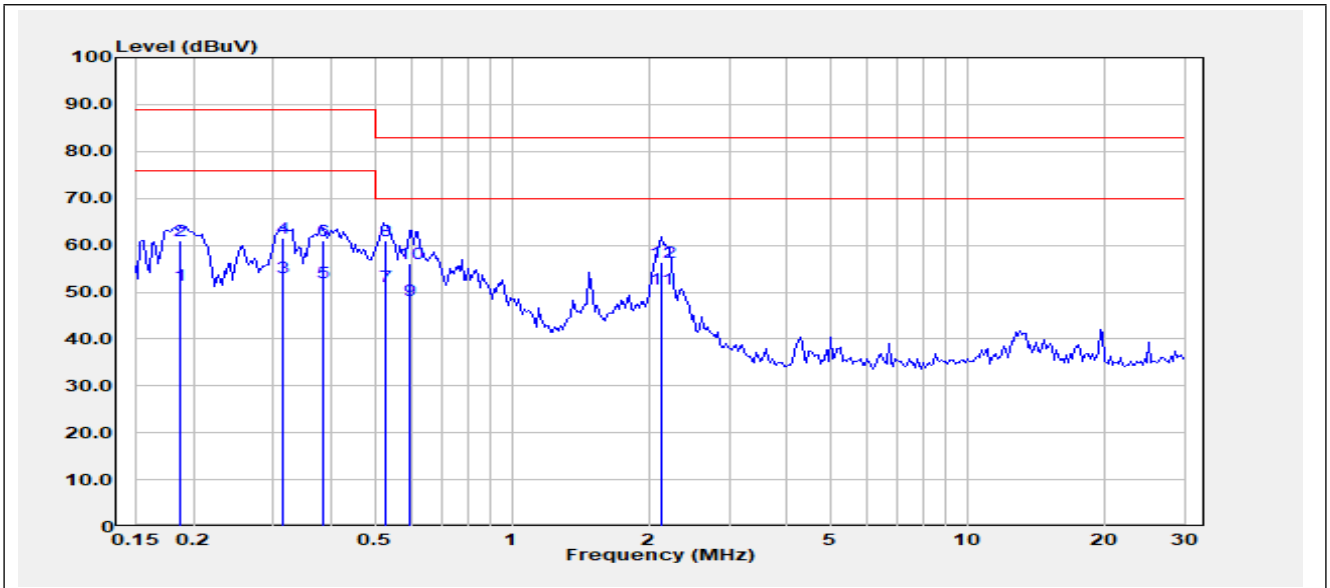
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Test Mode: 00; Line: Live line



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark  |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|---------|
| 1   | 0.1868          | 31.52          | 20.10              | 51.62         | 76.00        | -24.38      | Average |
| 2   | 0.1868          | 40.92          | 20.10              | 61.02         | 89.00        | -27.98      | QP      |
| 3   | 0.3147          | 32.97          | 20.08              | 53.05         | 76.00        | -22.95      | Average |
| 4   | 0.3147          | 41.43          | 20.08              | 61.51         | 89.00        | -27.49      | QP      |
| 5   | 0.3844          | 31.83          | 20.07              | 51.90         | 76.00        | -24.10      | Average |
| 6   | 0.3844          | 40.83          | 20.07              | 60.90         | 89.00        | -28.10      | QP      |
| 7   | 0.5271          | 31.25          | 19.99              | 51.24         | 70.00        | -18.76      | Average |
| 8   | 0.5271          | 41.03          | 19.99              | 61.02         | 83.00        | -21.98      | QP      |
| 9   | 0.5964          | 28.48          | 19.89              | 48.37         | 70.00        | -21.63      | Average |
| 10  | 0.5964          | 36.27          | 19.89              | 56.16         | 83.00        | -26.84      | QP      |
| 11  | 2.1300          | 30.70          | 20.04              | 50.74         | 70.00        | -19.26      | Average |
| 12  | 2.1300          | 36.42          | 20.04              | 56.46         | 83.00        | -26.54      | QP      |

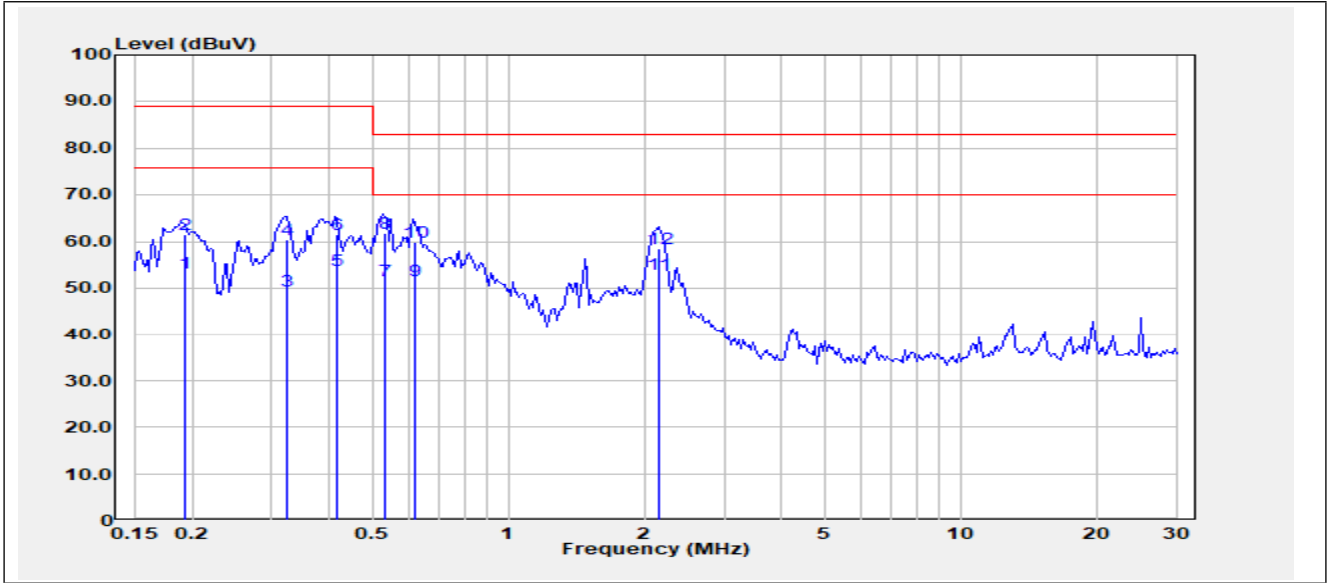
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Test Mode: 00; Line: Neutral Line



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark  |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|---------|
| 1   | 0.1928          | 32.98          | 20.12              | 53.10         | 76.00        | -22.90      | Average |
| 2   | 0.1928          | 41.33          | 20.12              | 61.45         | 89.00        | -27.55      | QP      |
| 3   | 0.3256          | 29.35          | 20.09              | 49.44         | 76.00        | -26.56      | Average |
| 4   | 0.3256          | 40.40          | 20.09              | 60.49         | 89.00        | -28.51      | QP      |
| 5   | 0.4164          | 33.47          | 20.08              | 53.55         | 76.00        | -22.45      | Average |
| 6   | 0.4164          | 41.55          | 20.08              | 61.63         | 89.00        | -27.37      | QP      |
| 7   | 0.5317          | 31.70          | 19.91              | 51.61         | 70.00        | -18.39      | Average |
| 8   | 0.5317          | 41.89          | 19.91              | 61.80         | 83.00        | -21.20      | QP      |
| 9   | 0.6200          | 31.66          | 19.87              | 51.53         | 70.00        | -18.47      | Average |
| 10  | 0.6200          | 40.15          | 19.87              | 60.02         | 83.00        | -22.98      | QP      |
| 11  | 2.1450          | 32.92          | 19.90              | 52.82         | 70.00        | -17.18      | Average |
| 12  | 2.1450          | 38.65          | 19.90              | 58.55         | 83.00        | -24.45      | QP      |

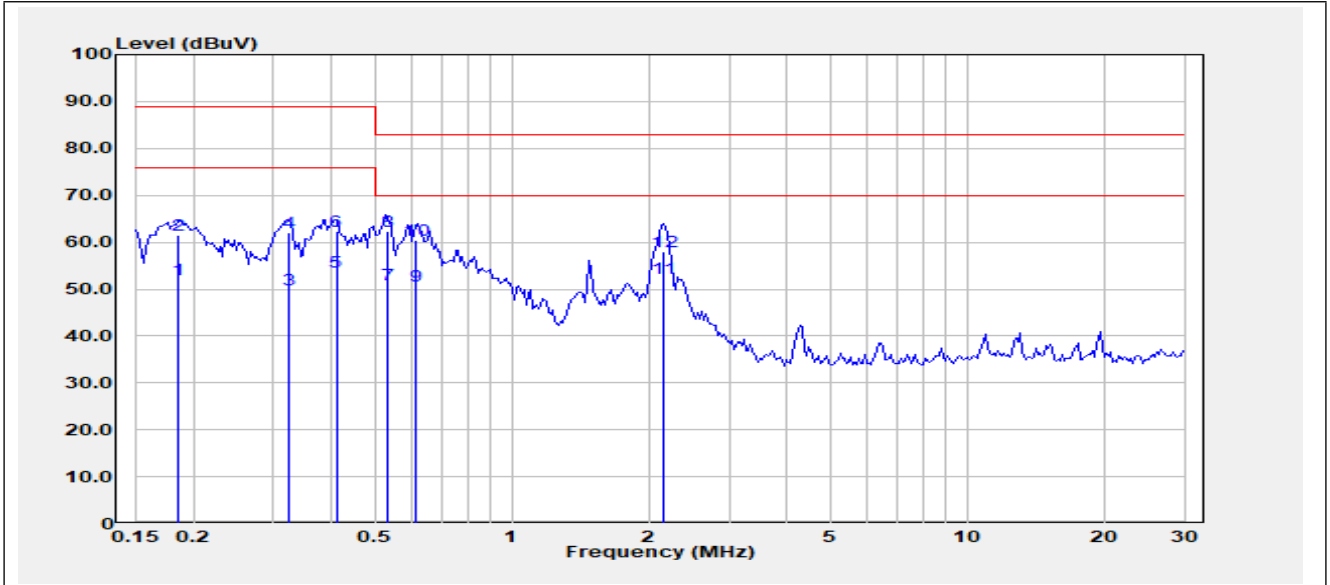
# Compliance Certification Services (Kunshan) Inc.

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Report No.: KSEM240700194601

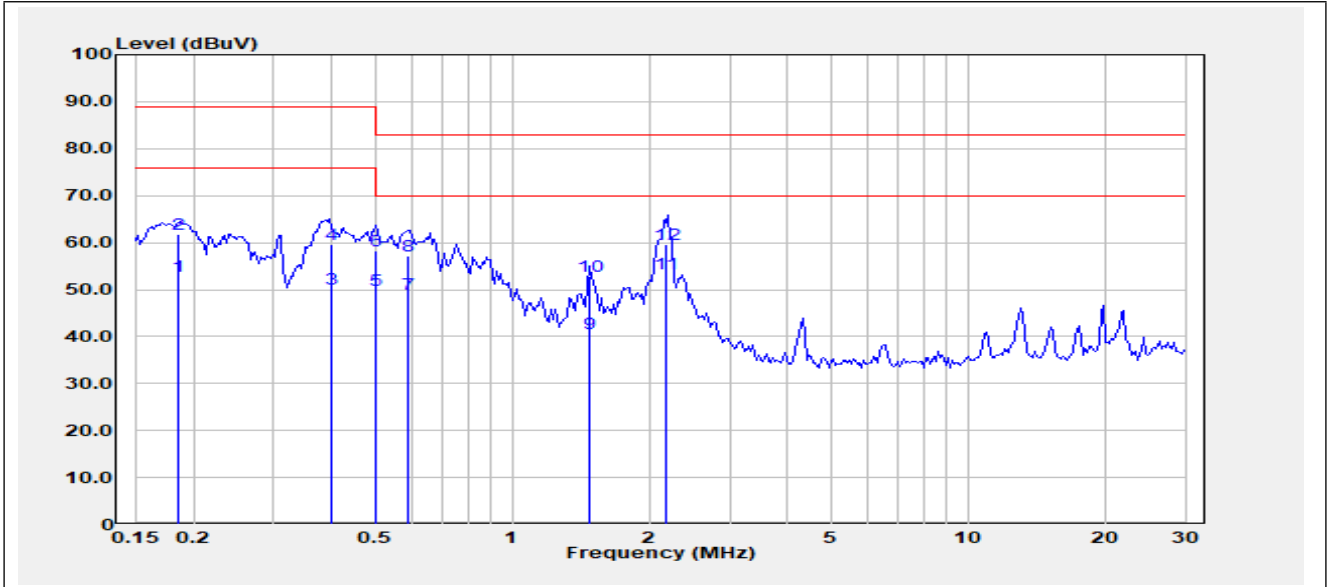
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Test Mode: 01; Line: Live line



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark  |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|---------|
| 1   | 0.1849          | 31.86          | 20.11              | 51.97         | 76.00        | -24.03      | Average |
| 2   | 0.1849          | 41.28          | 20.11              | 61.39         | 89.00        | -27.61      | QP      |
| 3   | 0.3241          | 29.76          | 20.08              | 49.84         | 76.00        | -26.16      | Average |
| 4   | 0.3241          | 41.93          | 20.08              | 62.01         | 89.00        | -26.99      | QP      |
| 5   | 0.4117          | 33.72          | 20.06              | 53.78         | 76.00        | -22.22      | Average |
| 6   | 0.4117          | 42.15          | 20.06              | 62.21         | 89.00        | -26.79      | QP      |
| 7   | 0.5346          | 30.88          | 19.98              | 50.86         | 70.00        | -19.14      | Average |
| 8   | 0.5346          | 42.33          | 19.98              | 62.31         | 83.00        | -20.69      | QP      |
| 9   | 0.6176          | 30.91          | 19.86              | 50.77         | 70.00        | -19.23      | Average |
| 10  | 0.6176          | 40.60          | 19.86              | 60.46         | 83.00        | -22.54      | QP      |
| 11  | 2.1480          | 32.25          | 20.03              | 52.28         | 70.00        | -17.72      | Average |
| 12  | 2.1480          | 38.04          | 20.03              | 58.07         | 83.00        | -24.93      | QP      |

Test Mode: 01; Line: Neutral Line



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark  |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|---------|
| 1   | 0.1855          | 32.73          | 20.13              | 52.86         | 76.00        | -23.14      | Average |
| 2   | 0.1855          | 41.66          | 20.13              | 61.79         | 89.00        | -27.21      | QP      |
| 3   | 0.4001          | 30.14          | 20.11              | 50.25         | 76.00        | -25.75      | Average |
| 4   | 0.4001          | 39.38          | 20.11              | 59.49         | 89.00        | -29.51      | QP      |
| 5   | 0.5040          | 29.99          | 19.93              | 49.92         | 70.00        | -20.08      | Average |
| 6   | 0.5040          | 38.37          | 19.93              | 58.30         | 83.00        | -24.70      | QP      |
| 7   | 0.5891          | 29.17          | 19.88              | 49.05         | 70.00        | -20.95      | Average |
| 8   | 0.5891          | 37.33          | 19.88              | 57.21         | 83.00        | -25.79      | QP      |
| 9   | 1.4790          | 20.68          | 19.90              | 40.58         | 70.00        | -29.42      | Average |
| 10  | 1.4790          | 32.86          | 19.90              | 52.76         | 83.00        | -30.24      | QP      |
| 11  | 2.1750          | 33.37          | 19.90              | 53.27         | 70.00        | -16.73      | Average |
| 12  | 2.1750          | 39.67          | 19.90              | 59.57         | 83.00        | -23.43      | QP      |



**6.2 Conducted Emissions at Wired Network Port (150kHz-30MHz)**

Test Requirement: EN IEC 61000-6-4: 2019

Test Method: CISPR 32:2015

Limit:

0.15MHz -0.5MHz 97 to 87dB(μV) quasi-peak, 84 to 74dB(μV) average

0.5MHz -30MHz 87dB(μV) quasi-peak, 74dB(μV) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 150kHz to 30MHz

NOTE 1: The lower limit is applicable at the transition frequency.

**6.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 24 °C

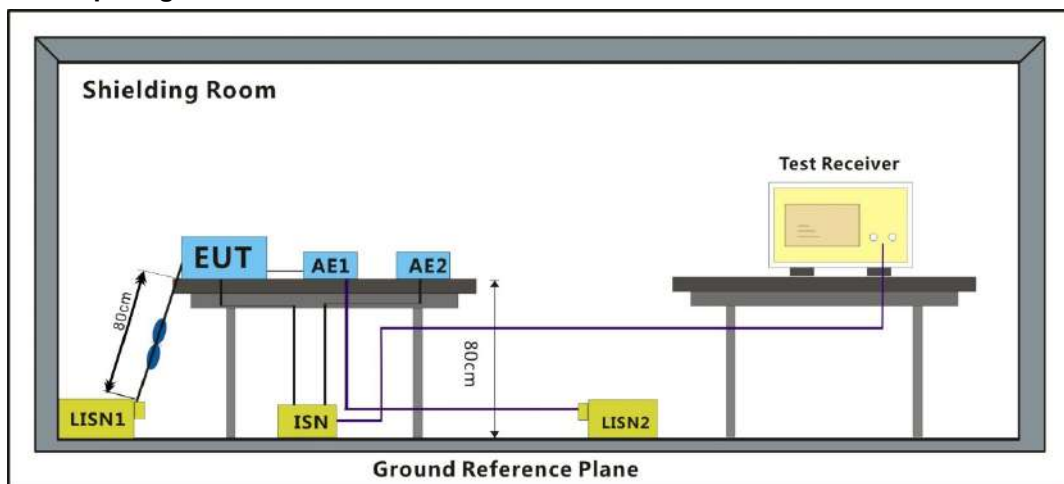
Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

**6.2.2 Test Mode Description**

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

**6.2.3 Test Setup Diagram**



**6.2.4 Measurement Procedure and Data**

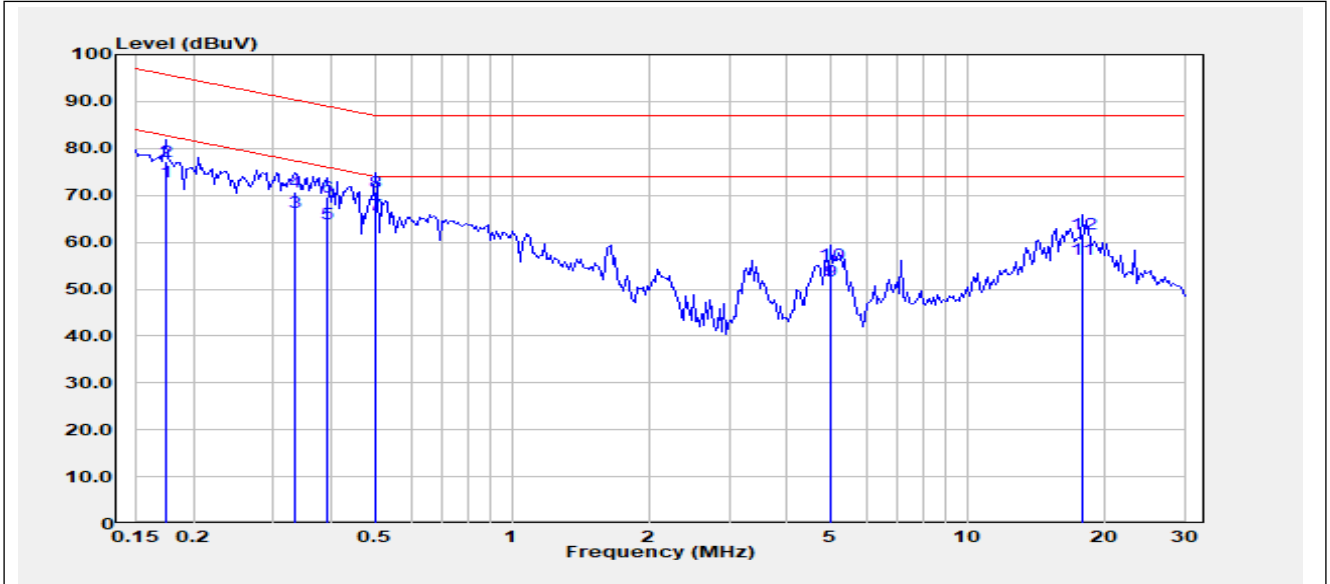
Frequency range: 150KHz-30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

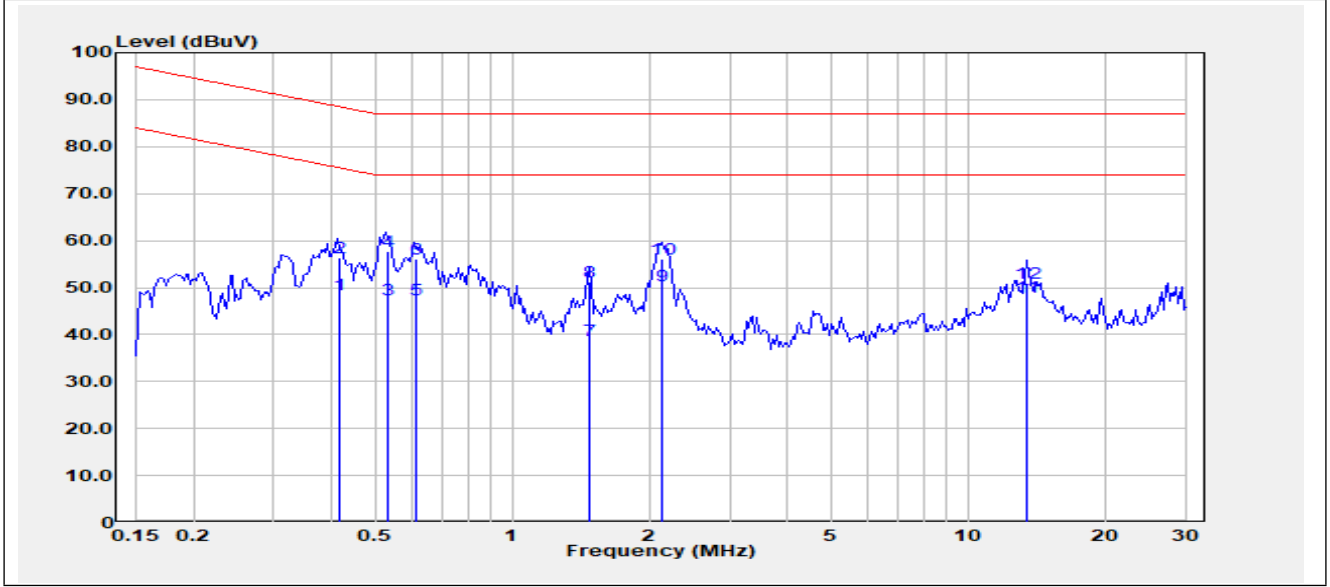
Measured Level = Read level + Cable Loss + ISN Factor

Test Mode: 00



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark  |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|---------|
| 1   | 0.1740          | 52.90          | 19.90              | 72.80         | 82.77        | -9.97       | Average |
| 2   | 0.1740          | 57.38          | 19.90              | 77.28         | 95.77        | -18.49      | QP      |
| 3   | 0.3356          | 46.40          | 19.89              | 66.29         | 77.31        | -11.02      | Average |
| 4   | 0.3356          | 50.86          | 19.89              | 70.75         | 90.31        | -19.56      | QP      |
| 5   | 0.3934          | 44.20          | 19.88              | 64.08         | 75.99        | -11.91      | Average |
| 6   | 0.3934          | 49.89          | 19.88              | 69.77         | 88.99        | -19.22      | QP      |
| 7   | 0.5020          | 46.05          | 19.87              | 65.92         | 74.00        | -8.08       | Average |
| 8   | 0.5020          | 50.99          | 19.87              | 70.86         | 87.00        | -16.14      | QP      |
| 9   | 5.0050          | 31.60          | 20.07              | 51.67         | 74.00        | -22.33      | Average |
| 10  | 5.0050          | 35.20          | 20.07              | 55.27         | 87.00        | -31.73      | QP      |
| 11  | 17.8490         | 36.25          | 20.08              | 56.33         | 74.00        | -17.67      | Average |
| 12  | 17.8490         | 41.76          | 20.08              | 61.84         | 87.00        | -25.16      | QP      |

Test Mode: 01



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark  |
|-----|-----------------|----------------|--------------------|---------------|--------------|-------------|---------|
| 1   | 0.4170          | 28.75          | 19.88              | 48.63         | 75.51        | -26.88      | Average |
| 2   | 0.4170          | 36.58          | 19.88              | 56.46         | 88.51        | -32.05      | QP      |
| 3   | 0.5322          | 27.55          | 19.91              | 47.46         | 74.00        | -26.54      | Average |
| 4   | 0.5322          | 37.77          | 19.91              | 57.68         | 87.00        | -29.32      | QP      |
| 5   | 0.6127          | 27.55          | 20.00              | 47.55         | 74.00        | -26.45      | Average |
| 6   | 0.6127          | 36.03          | 20.00              | 56.03         | 87.00        | -30.97      | QP      |
| 7   | 1.4720          | 18.94          | 19.92              | 38.86         | 74.00        | -35.14      | Average |
| 8   | 1.4720          | 31.36          | 19.92              | 51.28         | 87.00        | -35.72      | QP      |
| 9   | 2.1330          | 30.35          | 19.94              | 50.29         | 74.00        | -23.71      | Average |
| 10  | 2.1330          | 36.14          | 19.94              | 56.08         | 87.00        | -30.92      | QP      |
| 11  | 13.4190         | 27.98          | 20.09              | 48.07         | 74.00        | -25.93      | Average |
| 12  | 13.4190         | 30.82          | 20.09              | 50.91         | 87.00        | -36.09      | QP      |

**6.3 Radiated Emissions (30MHz-1GHz)**

Test Requirement: EN IEC 61000-6-4: 2019

Test Method: CISPR 16-2-3: 2016

Limit:

Test Distance: 3m

30MHz-230MHz 50 dB(μV/m) quasi-peak

230MHz-1GHz 57 dB(μV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

**6.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 24 °C

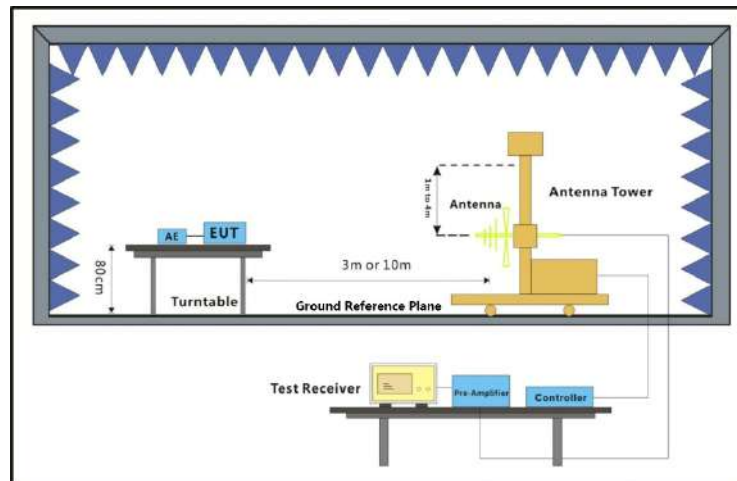
Humidity: 46 % RH

Atmospheric Pressure: 1010 mbar

**6.3.2 Test Mode Description**

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

**6.3.3 Test Setup Diagram**



**6.3.4 Measurement Procedure and Data**

Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

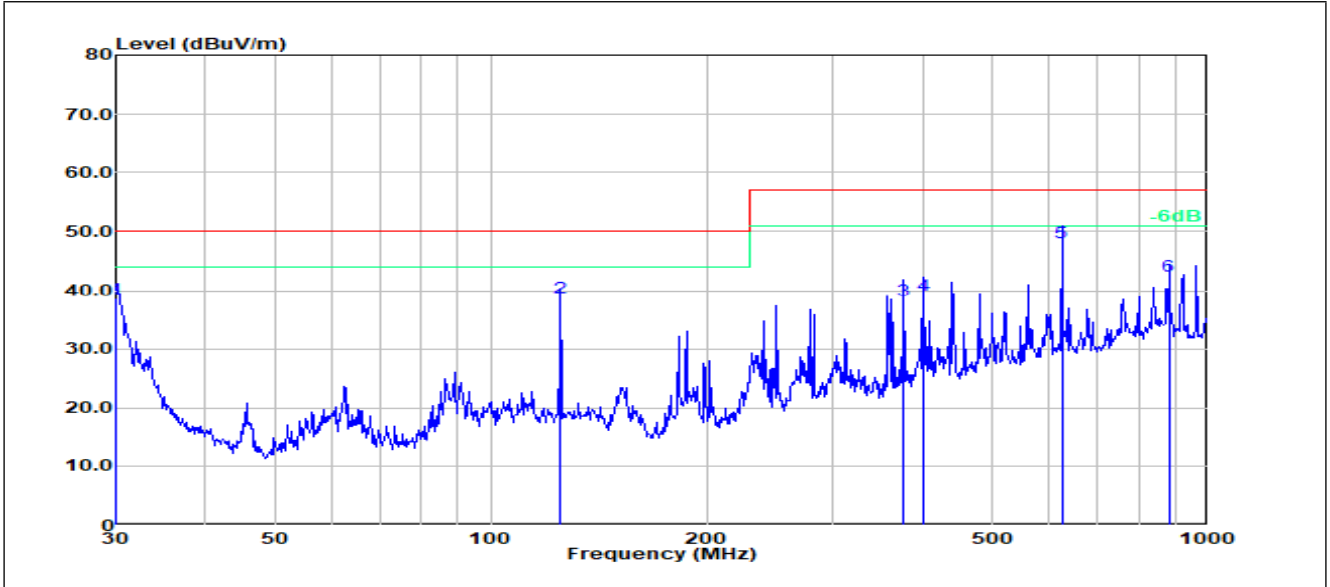
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Test Mode: 00; Polarity: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1   | 30.0000         | 19.20          | 19.42                | 38.62           | 50.00          | -11.38      | 100         | 282           | QP     |
| 2   | 125.0066        | 24.06          | 14.70                | 38.76           | 50.00          | -11.24      | 200         | 215           | QP     |
| 3   | 375.9385        | 21.42          | 16.99                | 38.41           | 57.00          | -18.59      | 100         | 77            | QP     |
| 4   | 400.4319        | 21.32          | 17.98                | 39.30           | 57.00          | -17.70      | 100         | 354           | QP     |
| 5   | 625.0781        | 25.13          | 22.91                | 48.04           | 57.00          | -8.96       | 100         | 216           | QP     |
| 6   | 881.4067        | 17.02          | 25.58                | 42.60           | 57.00          | -14.40      | 100         | 0             | QP     |

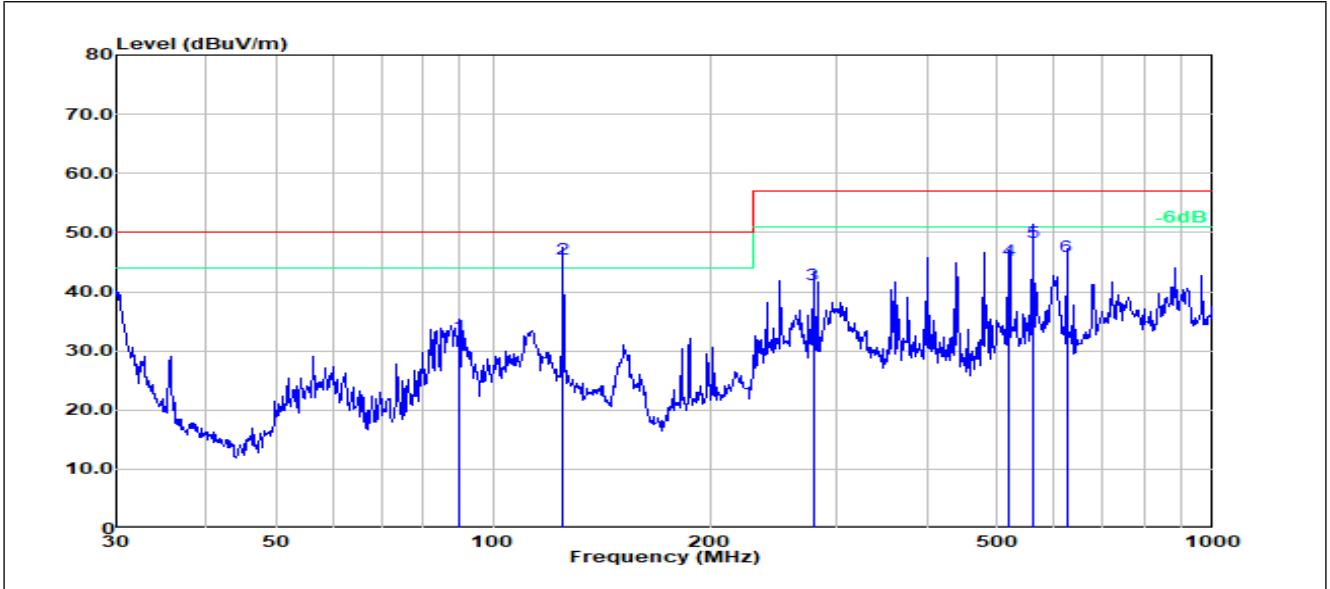
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Test Mode: 00; Polarity: Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1   | 89.9047         | 20.57          | 11.94                | 32.51           | 50.00          | -17.49      | 152         | 360           | QP     |
| 2   | 125.0066        | 30.93          | 14.70                | 45.63           | 50.00          | -4.37       | 100         | 49            | QP     |
| 3   | 278.0669        | 25.92          | 15.38                | 41.30           | 57.00          | -15.70      | 100         | 1             | QP     |
| 4   | 519.0649        | 23.75          | 21.47                | 45.22           | 57.00          | -11.78      | 100         | 9             | QP     |
| 5   | 560.6928        | 25.86          | 22.40                | 48.26           | 57.00          | -8.74       | 100         | 5             | QP     |
| 6   | 625.0781        | 23.05          | 22.91                | 45.96           | 57.00          | -11.04      | 100         | 272           | QP     |

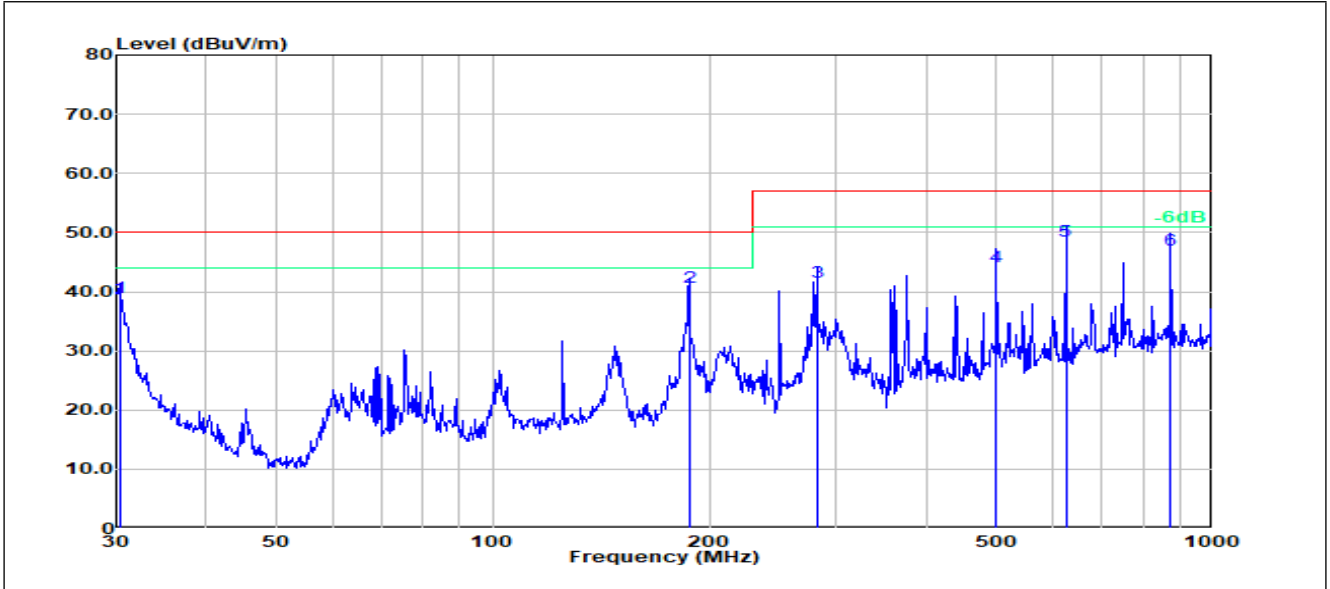
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Test Mode: 01; Polarity: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1   | 30.3173         | 19.78          | 19.17                | 38.95           | 50.00          | -11.05      | 100         | 359           | QP     |
| 2   | 187.7530        | 28.56          | 12.26                | 40.82           | 50.00          | -9.18       | 100         | 115           | QP     |
| 3   | 281.9946        | 26.04          | 15.48                | 41.53           | 57.00          | -15.48      | 100         | 337           | QP     |
| 4   | 501.1790        | 23.21          | 20.91                | 44.12           | 57.00          | -12.88      | 100         | 300           | QP     |
| 5   | 625.0781        | 25.64          | 22.91                | 48.55           | 57.00          | -8.45       | 100         | 68            | QP     |
| 6   | 875.2469        | 21.73          | 25.26                | 46.99           | 57.00          | -10.01      | 200         | 254           | QP     |

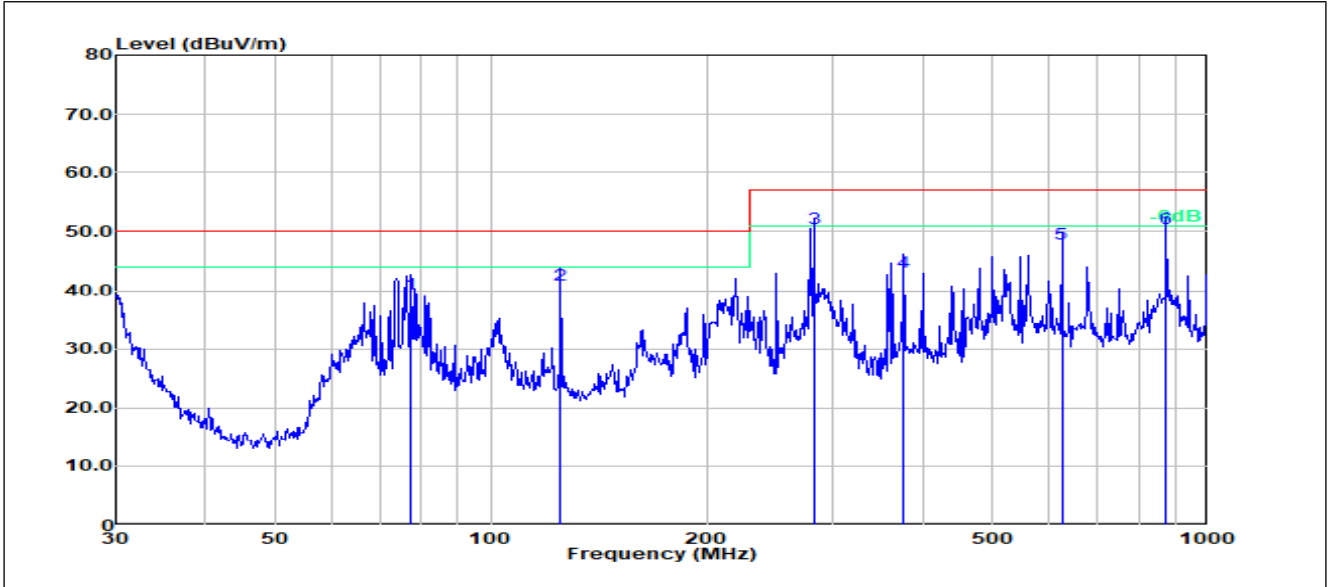
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Test Mode: 01; Polarity: Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1   | 77.3212         | 29.75          | 9.67                 | 39.42           | 50.00          | -10.58      | 100         | 340           | QP     |
| 2   | 125.0066        | 26.26          | 14.70                | 40.96           | 50.00          | -9.04       | 100         | 14            | QP     |
| 3   | 281.9946        | 34.94          | 15.48                | 50.42           | 57.00          | -6.58       | 100         | 154           | QP     |
| 4   | 375.9385        | 26.17          | 16.99                | 43.16           | 57.00          | -13.84      | 200         | 294           | QP     |
| 5   | 625.0781        | 24.91          | 22.91                | 47.82           | 57.00          | -9.18       | 100         | 31            | QP     |
| 6   | 875.2469        | 25.15          | 25.26                | 50.41           | 57.00          | -6.59       | 100         | 77            | QP     |



**6.4 Radiated Emissions (Above 1GHz)**

Test Requirement: EN IEC 61000-6-4: 2019

Test Method: CISPR 16-2-3: 2016

Limit:

Test Distance: 3m

1GHz-3GHz: 76 dB(μV/m) peak; 56 dB(μV/m) average

3GHz-6GHz: 80 dB(μV/m) peak; 60 dB(μV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1GHz to 6GHz

**6.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.5 °C

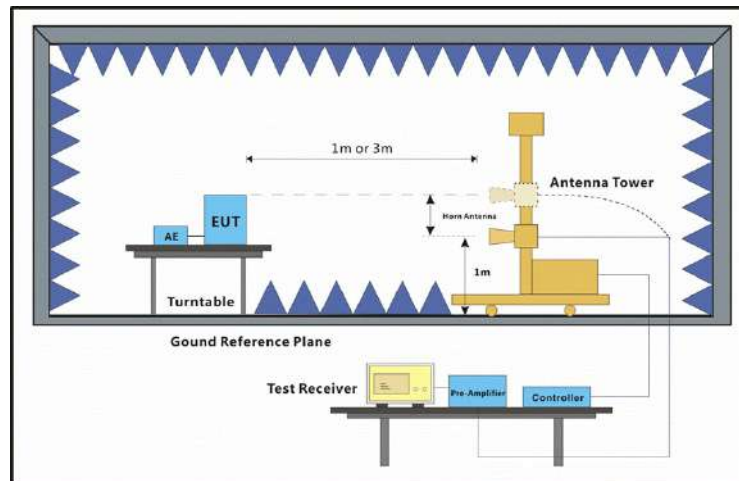
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

**6.4.2 Test Mode Description**

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

**6.4.3 Test Setup Diagram**



**6.4.4 Measurement Procedure and Data**

Frequency Range: Above 1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

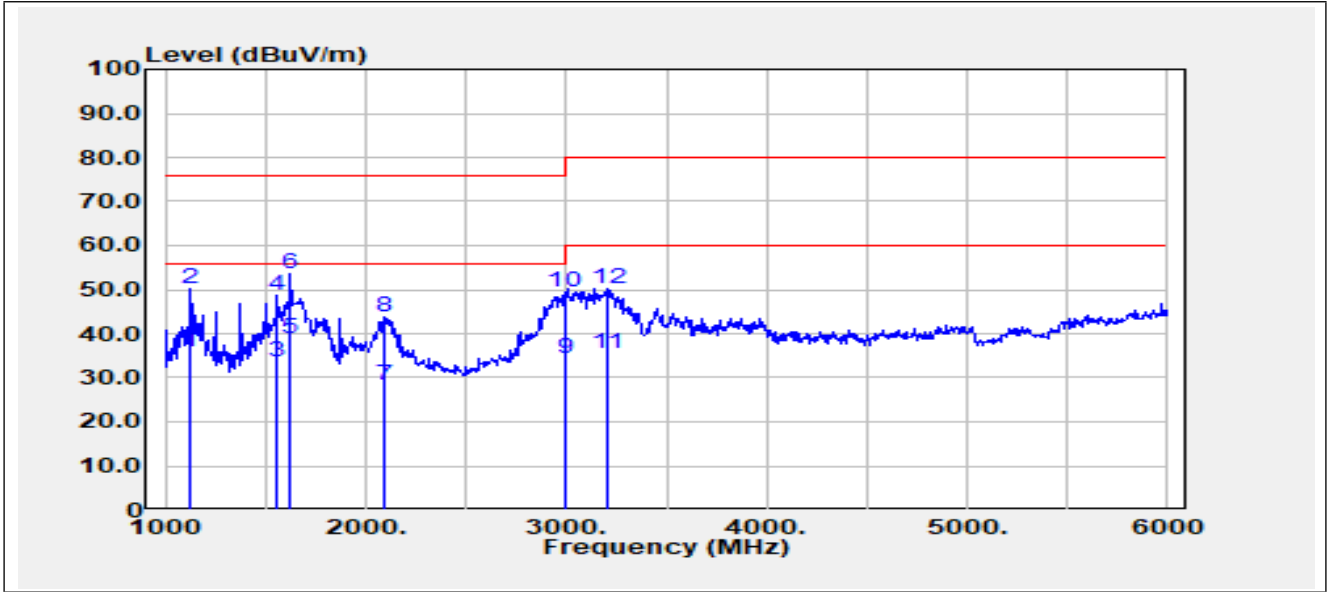
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Test Mode: 00; Polarity: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark  |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|---------|
| 1   | 1125.00         | 58.29          | -22.61               | 35.68           | 56.00          | -20.32      | 100         | 192           | Average |
| 2   | 1125.00         | 72.86          | -22.61               | 50.25           | 76.00          | -25.75      | 100         | 192           | Peak    |
| 3   | 1560.00         | 54.14          | -20.67               | 33.47           | 56.00          | -22.53      | 100         | 309           | Average |
| 4   | 1560.00         | 69.51          | -20.67               | 48.84           | 76.00          | -27.16      | 100         | 309           | Peak    |
| 5   | 1625.00         | 59.52          | -20.54               | 38.98           | 56.00          | -17.02      | 200         | 18            | Average |
| 6   | 1625.00         | 74.25          | -20.54               | 53.71           | 76.00          | -22.29      | 200         | 18            | Peak    |
| 7   | 2095.00         | 47.47          | -19.30               | 28.17           | 56.00          | -27.83      | 100         | 161           | Average |
| 8   | 2095.00         | 62.98          | -19.30               | 43.68           | 76.00          | -32.32      | 100         | 161           | Peak    |
| 9   | 2990.00         | 50.08          | -15.75               | 34.33           | 56.00          | -21.67      | 300         | 156           | Average |
| 10  | 2990.00         | 65.29          | -15.75               | 49.54           | 76.00          | -26.46      | 300         | 156           | Peak    |
| 11  | 3205.00         | 50.89          | -15.45               | 35.44           | 60.00          | -24.56      | 100         | 140           | Average |
| 12  | 3205.00         | 65.79          | -15.45               | 50.34           | 80.00          | -29.66      | 100         | 140           | Peak    |

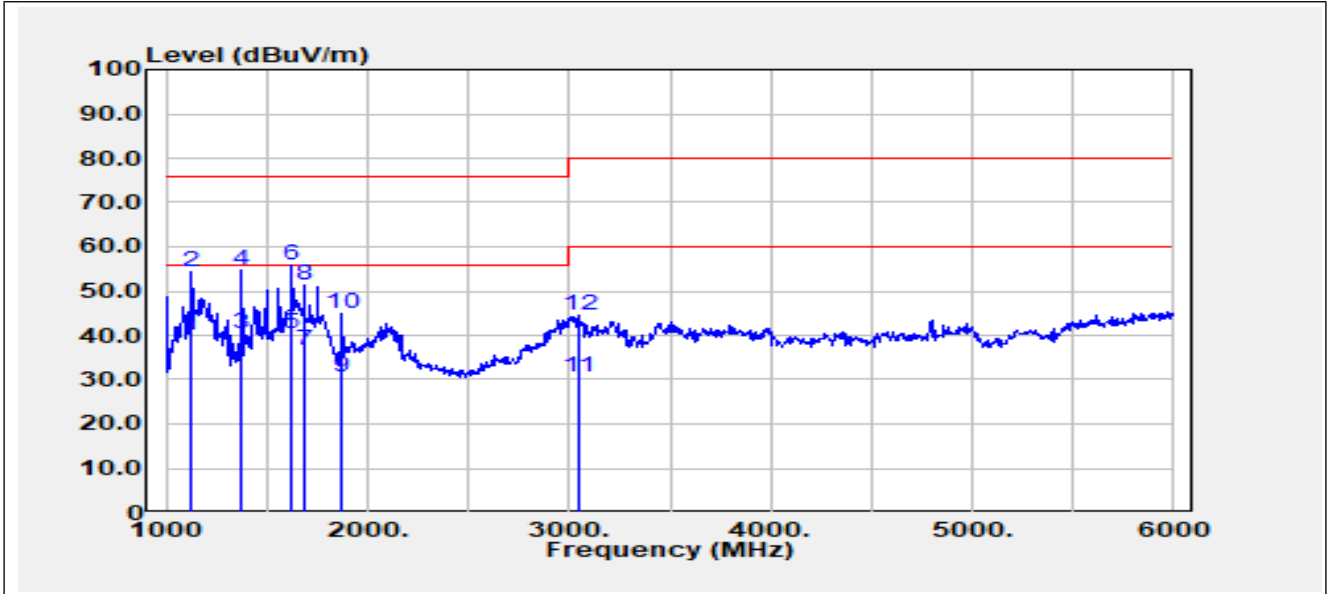
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Test Mode: 00; Polarity: Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark  |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|---------|
| 1   | 1125.00         | 62.46          | -22.61               | 39.85           | 56.00          | -16.15      | 100         | 359           | Average |
| 2   | 1125.00         | 76.99          | -22.61               | 54.38           | 76.00          | -21.62      | 100         | 359           | Peak    |
| 3   | 1375.00         | 61.73          | -21.40               | 40.33           | 56.00          | -15.67      | 100         | 261           | Average |
| 4   | 1375.00         | 76.09          | -21.40               | 54.69           | 76.00          | -21.31      | 100         | 261           | Peak    |
| 5   | 1625.00         | 61.01          | -20.54               | 40.47           | 56.00          | -15.53      | 300         | 266           | Average |
| 6   | 1625.00         | 76.26          | -20.54               | 55.72           | 76.00          | -20.28      | 300         | 266           | Peak    |
| 7   | 1685.00         | 57.19          | -20.41               | 36.78           | 56.00          | -19.22      | 100         | 261           | Average |
| 8   | 1685.00         | 71.62          | -20.41               | 51.21           | 76.00          | -24.79      | 100         | 261           | Peak    |
| 9   | 1875.00         | 50.55          | -20.03               | 30.52           | 56.00          | -25.48      | 200         | 266           | Average |
| 10  | 1875.00         | 64.90          | -20.03               | 44.87           | 76.00          | -31.13      | 200         | 266           | Peak    |
| 11  | 3045.00         | 46.30          | -15.66               | 30.64           | 60.00          | -29.36      | 100         | 354           | Average |
| 12  | 3045.00         | 60.30          | -15.66               | 44.64           | 80.00          | -35.36      | 100         | 354           | Peak    |

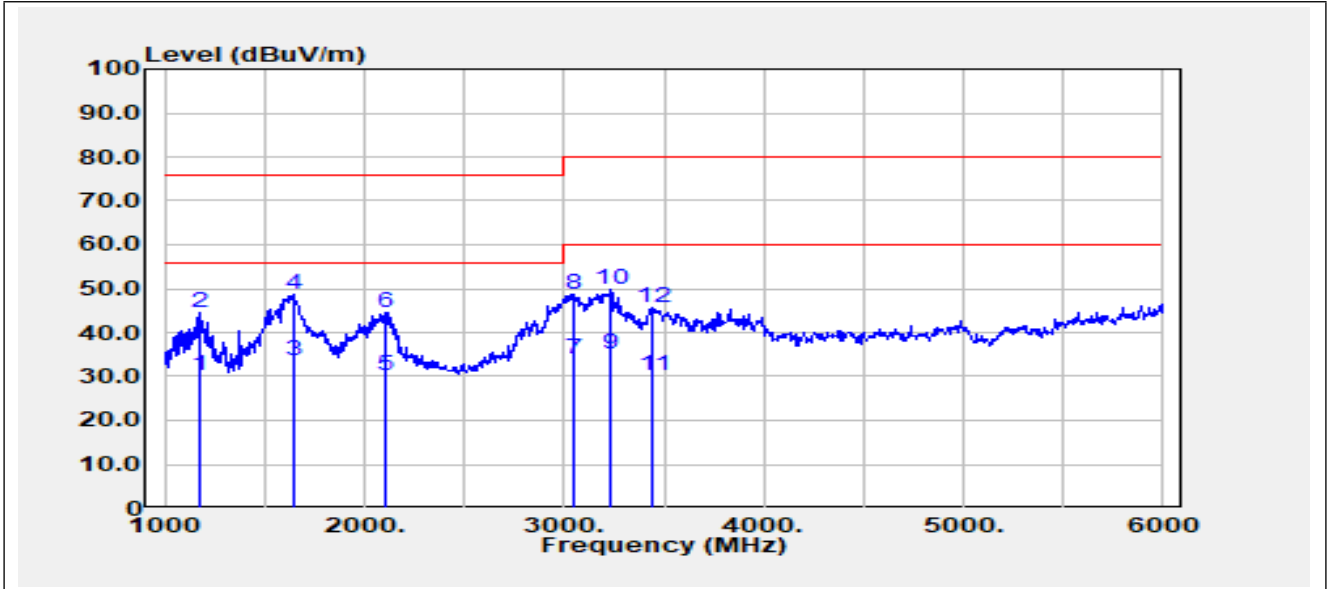
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Test Mode: 01; Polarity: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark  |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|---------|
| 1   | 1170.00         | 52.47          | -22.39               | 30.08           | 56.00          | -25.92      | 100         | 161           | Average |
| 2   | 1170.00         | 66.82          | -22.39               | 44.43           | 76.00          | -31.57      | 100         | 161           | Peak    |
| 3   | 1645.00         | 53.96          | -20.49               | 33.47           | 56.00          | -22.53      | 300         | 166           | Average |
| 4   | 1645.00         | 69.10          | -20.49               | 48.61           | 76.00          | -27.39      | 300         | 166           | Peak    |
| 5   | 2100.00         | 49.41          | -19.27               | 30.14           | 56.00          | -25.86      | 100         | 342           | Average |
| 6   | 2100.00         | 63.97          | -19.27               | 44.70           | 76.00          | -31.30      | 100         | 342           | Peak    |
| 7   | 3045.00         | 49.53          | -15.66               | 33.87           | 60.00          | -26.13      | 200         | 346           | Average |
| 8   | 3045.00         | 64.45          | -15.66               | 48.79           | 80.00          | -31.21      | 200         | 346           | Peak    |
| 9   | 3230.00         | 50.40          | -15.42               | 34.98           | 60.00          | -25.02      | 100         | 156           | Average |
| 10  | 3230.00         | 65.21          | -15.42               | 49.79           | 80.00          | -30.21      | 100         | 156           | Peak    |
| 11  | 3445.00         | 45.22          | -15.14               | 30.08           | 60.00          | -29.92      | 100         | 2             | Average |
| 12  | 3445.00         | 60.64          | -15.14               | 45.50           | 80.00          | -34.50      | 100         | 2             | Peak    |

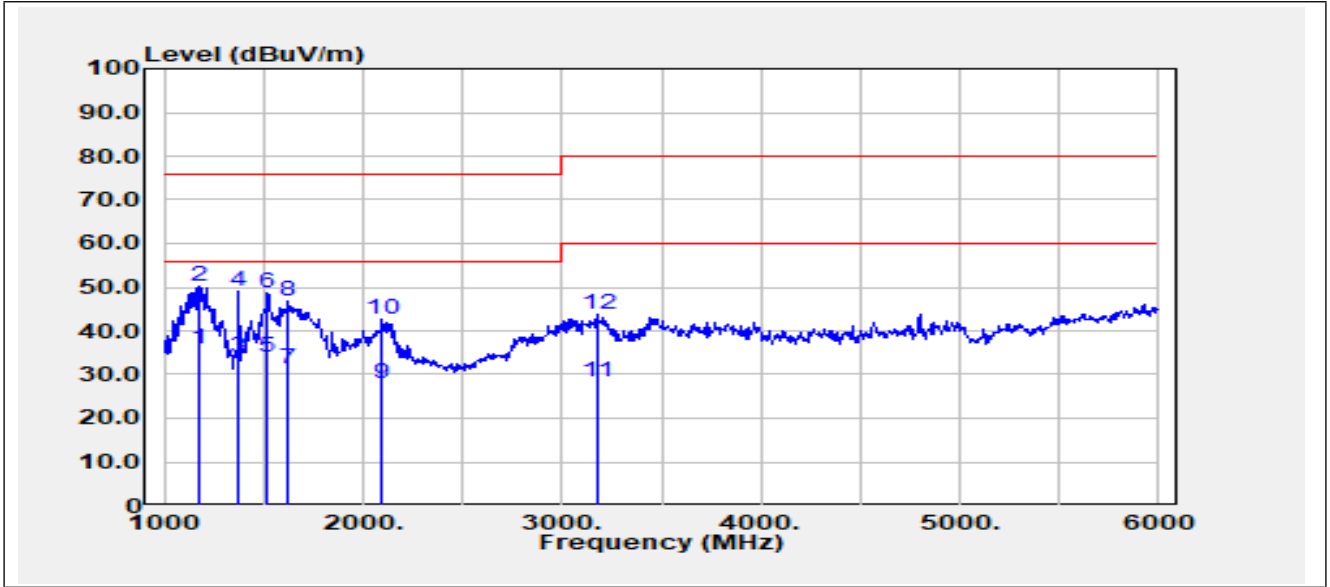
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Test Mode: 01; Polarity: Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark  |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|---------|
| 1   | 1170.00         | 58.08          | -22.39               | 35.69           | 56.00          | -20.31      | 100         | 352           | Average |
| 2   | 1170.00         | 72.52          | -22.39               | 50.13           | 76.00          | -25.87      | 100         | 352           | Peak    |
| 3   | 1375.00         | 55.52          | -21.40               | 34.12           | 56.00          | -21.88      | 200         | 82            | Average |
| 4   | 1375.00         | 70.62          | -21.40               | 49.22           | 76.00          | -26.78      | 200         | 82            | Peak    |
| 5   | 1515.00         | 54.63          | -20.76               | 33.87           | 56.00          | -22.13      | 100         | 0             | Average |
| 6   | 1515.00         | 69.38          | -20.76               | 48.62           | 76.00          | -27.38      | 100         | 0             | Peak    |
| 7   | 1625.00         | 51.93          | -20.54               | 31.39           | 56.00          | -24.61      | 100         | 260           | Average |
| 8   | 1625.00         | 67.21          | -20.54               | 46.67           | 76.00          | -29.33      | 100         | 260           | Peak    |
| 9   | 2095.00         | 47.17          | -19.30               | 27.87           | 56.00          | -28.13      | 300         | 154           | Average |
| 10  | 2095.00         | 62.06          | -19.30               | 42.76           | 76.00          | -33.24      | 300         | 154           | Peak    |
| 11  | 3175.00         | 43.83          | -15.49               | 28.34           | 60.00          | -31.66      | 100         | 0             | Average |
| 12  | 3175.00         | 59.26          | -15.49               | 43.77           | 80.00          | -36.23      | 100         | 0             | Peak    |

## 7 Immunity Test Results

### Performance Criteria Description in EN IEC 61000-6-2:2019

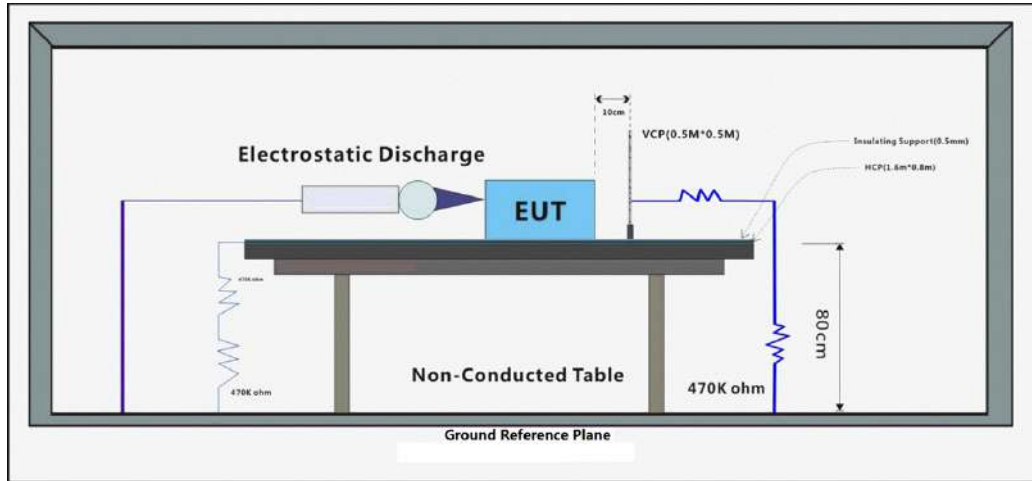
- |             |  |
|-------------|--|
| Criterion A | The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.   |
| Criterion B | The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended. |
| Criterion C | Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.  |

### 7.1 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-2:2009

#### 7.1.1 Test Setup Diagram



#### 7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

Humidity: 57 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

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### 7.1.4 Test Condition and Results:

Performance Criterion: B

Discharge Impedance: 330  $\Omega$ /150pF

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge

Discharge Period: 1 second minimum

Test Point 1: All insulated enclosure & seams.

Test Point 2: All accessible metal parts of the enclosure.

Test Point 3: All sides.

| Discharge type      | Level (kV) | Polarity | Test Point | Result / Observations |
|---------------------|------------|----------|------------|-----------------------|
| Air Discharge       | 2,4,8      | +        | 1          | A                     |
| Air Discharge       | 2,4,8      | -        | 1          | A                     |
| Contact Discharge   | 4          | +        | 2          | A                     |
| Contact Discharge   | 4          | -        | 2          | A                     |
| Horizontal Coupling | 4          | +        | 3          | A                     |
| Horizontal Coupling | 4          | -        | 3          | A                     |
| Vertical Coupling   | 4          | +        | 3          | A                     |
| Vertical Coupling   | 4          | -        | 3          | A                     |

A: No degradation in the performance of the EUT was observed

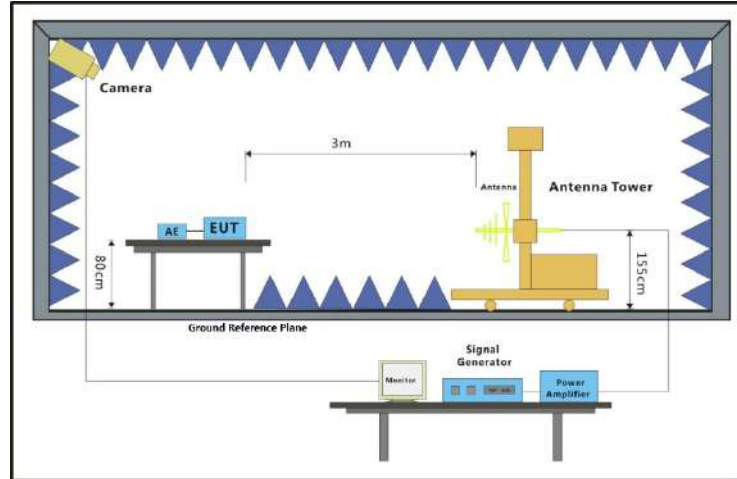


### 7.2 Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN IEC 61000-4-3: 2020

#### 7.2.1 Test Setup Diagram



#### 7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.2.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

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### 7.2.4 Test Condition and Results:

Performance Criterion: A

Antenna Polarisation: Vertical and Horizontal

Modulation: 1kHz,80% Amp. Mod,1% increment

Frequency Range: 80MHz to 1GHz, 1.4GHz to 6GHz

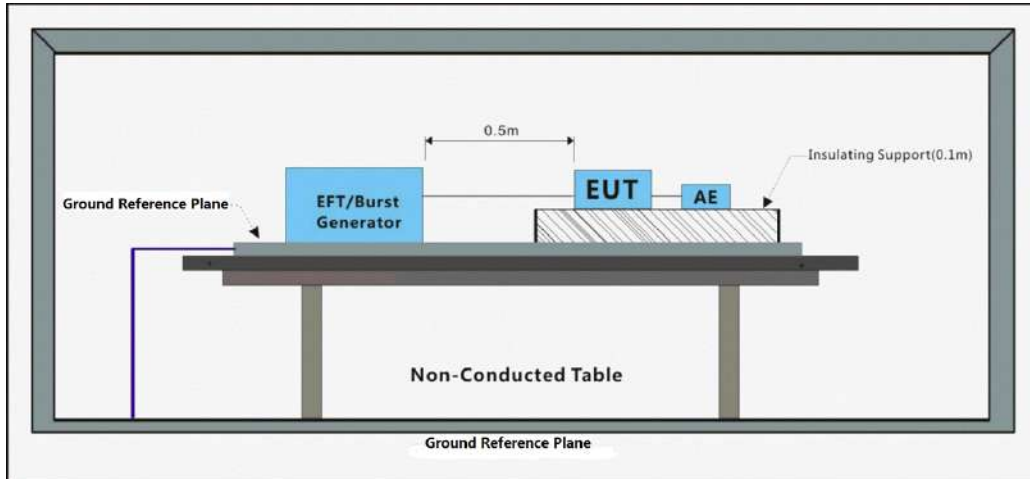
| Frequency  | Level (V/m) | EUT Face  | Dwell time | Result / Observations |
|--|-------------|-----------|------------|-----------------------|
| 80MHz-1GHz   | 10          | Front     | 3s         | A                     |
| 80MHz-1GHz   | 10          | Back      | 3s         | A                     |
| 80MHz-1GHz   | 10          | Left      | 3s         | A                     |
| 80MHz-1GHz   | 10          | Right     | 3s         | A                     |
| 80MHz-1GHz   | 10          | Top       | 3s         | A                     |
| 80MHz-1GHz   | 10          | Underside | 3s         | A                     |
| 1.4GHz-6GHz  | 3           | Front     | 3s         | A                     |
| 1.4GHz-6GHz  | 3           | Back      | 3s         | A                     |
| 1.4GHz-6GHz  | 3           | Left      | 3s         | A                     |
| 1.4GHz-6GHz  | 3           | Right     | 3s         | A                     |
| 1.4GHz-6GHz  | 3           | Top       | 3s         | A                     |
| 1.4GHz-6GHz  | 3           | Underside | 3s         | A                     |
| A: No degradation in the performance of the EUT was observed |             |           |            |                       |

### 7.3 Electrical Fast Transients Burst at DC Power Port

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-4:2012

#### 7.3.1 Test Setup Diagram



#### 7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

Humidity: 47.5 % RH

Atmospheric Pressure: 1010 mbar

#### 7.3.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 7.3.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz or 100kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

| Port    | Level (kV) | Polarity | Repetition Frequency: | CDN/Clamp | Result / Observations |
|---------|------------|----------|-----------------------|-----------|-----------------------|
| DC port | 2          | +        | 5kHz                  | Clamp     | A                     |
| DC port | 2          | -        | 5kHz                  | Clamp     | A                     |

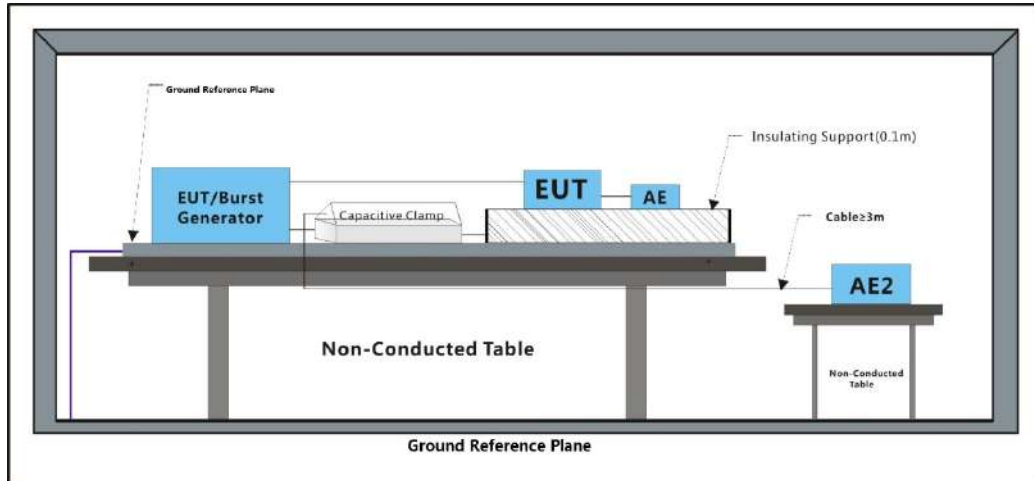
A: No degradation in the performance of the EUT was observed

### 7.4 Electrical Fast Transients Burst at Signal Port

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-4:2012

#### 7.4.1 Test Setup Diagram



#### 7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1010 mbar

#### 7.4.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 7.4.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz or 100kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

| Port        | Level (kV) | Polarity | CDN/Clamp | Result / Observations |
|-------------|------------|----------|-----------|-----------------------|
| Signal port | 1          | +        | Clamp     | A                     |
| Signal port | 1          | -        | Clamp     | A                     |

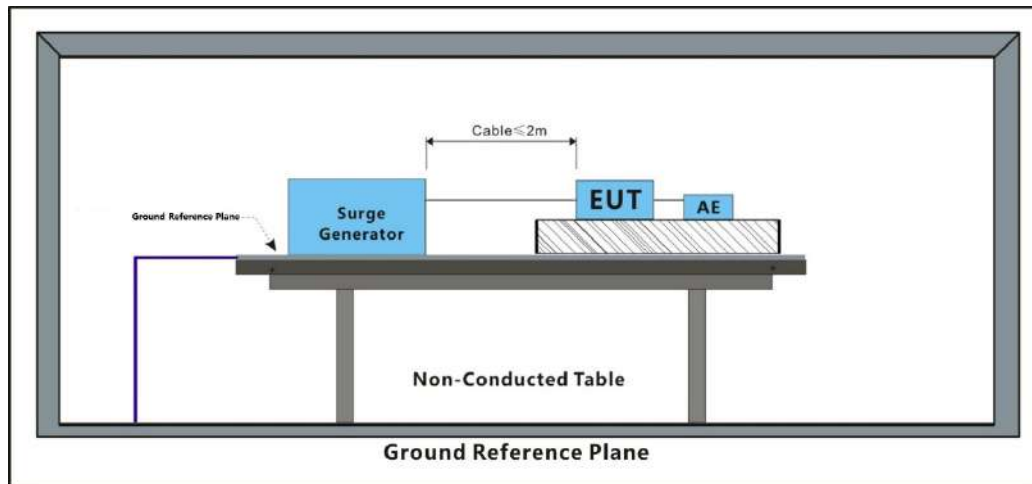
A: No degradation in the performance of the EUT was observed

### 7.5 Surge at DC Power Port

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-5:2014+A1:2017

#### 7.5.1 Test Setup Diagram



#### 7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 45.6 % RH

Atmospheric Pressure: 1010 mbar

#### 7.5.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 7.5.4 Test Condition and Results:

Performance Criterion: B

Interval: 60s between each surge

Generator source impedance: 2Ω

CDN coupling impedance(Line-to-ground):10Ω

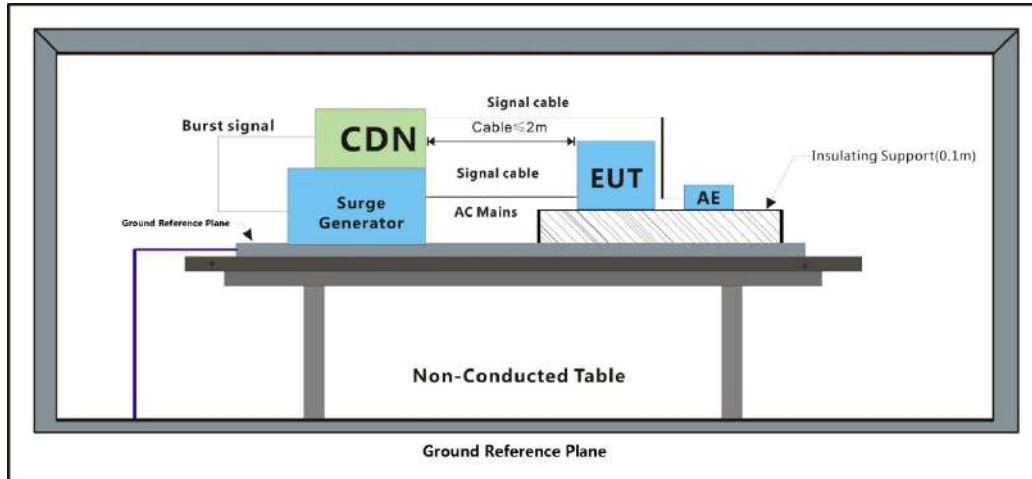
| Test Line | Level (kV) | Polarity | Result / Observations |
|-----------|------------|----------|-----------------------|
| P-N       | 0.5        | +        | A                     |
| P-N       | 0.5        | -        | A                     |
| P-G       | 1          | +        | A                     |
| P-G       | 1          | -        | A                     |
| N-G       | 1          | +        | A                     |
| N-G       | 1          | -        | A                     |

A: No degradation in the performance of the EUT was observed

### 7.6 Surge at Signal Port

Test Requirement: EN IEC 61000-6-2: 2019  
 Test Method: EN 61000-4-5:2014+A1:2017

#### 7.6.1 Test Setup Diagram



#### 7.6.2 E.U.T. Operation

Operating Environment:  
 Temperature: 21.6 °C      Humidity: 48.5 % RH      Atmospheric Pressure: 1010 mbar

#### 7.6.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 7.6.4 Test Condition and Results:

Performance Criterion: B  
 Interval: 60s between each surge  
 Generator source impedance: 2Ω  
 CDN coupling impedance: 40Ω  
 No. of surges: 5 positive, 5 negative

| Port        | Line        | Level (kV) | Polarity | Result / Observations |
|-------------|-------------|------------|----------|-----------------------|
| Signal port | Line-Ground | 0.5, 1     | +        | A                     |
| Signal port | Line-Ground | 0.5, 1     | -        | A                     |

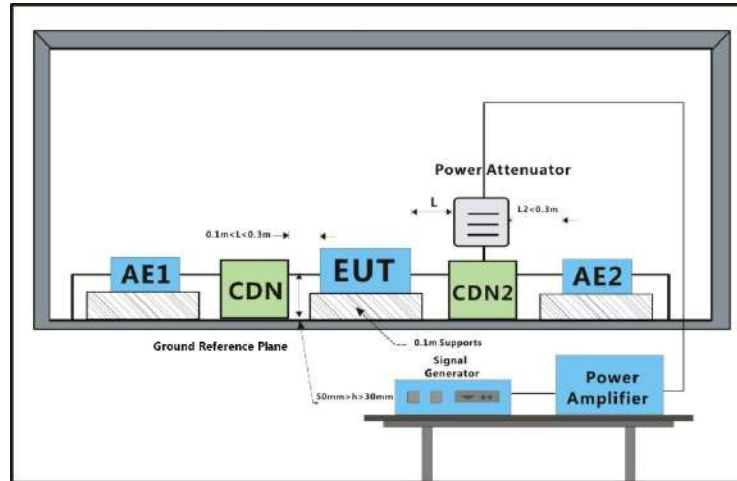
A: No degradation in the performance of the EUT was observed

### 7.7 Conducted Immunity at DC Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-6:2014

#### 7.7.1 Test Setup Diagram



#### 7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C

Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

#### 7.7.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 7.7.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size 1%

| Port    | Level (Vrms) | CDN/Clamp | Dwell time | Result / Observations |
|---------|--------------|-----------|------------|-----------------------|
| DC Port | 10           | CDN       | 3s         | A                     |

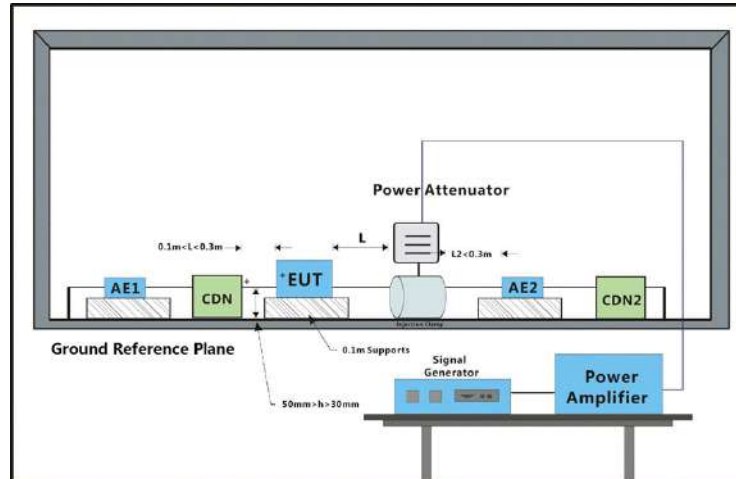
A: No degradation in the performance of the EUT was observed

### 7.8 Conducted Immunity at Signal Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-6:2014

#### 7.8.1 Test Setup Diagram



#### 7.8.2 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.8.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

#### 7.8.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size 1%

| Port   | Level (Vrms) | CDN/Clamp | Dwell time | Result / Observations |
|--|--------------|-----------|------------|-----------------------|
| Signal port  | 10           | Clamp     | 3s         | A                     |
| A: No degradation in the performance of the EUT was observed |              |           |            |                       |

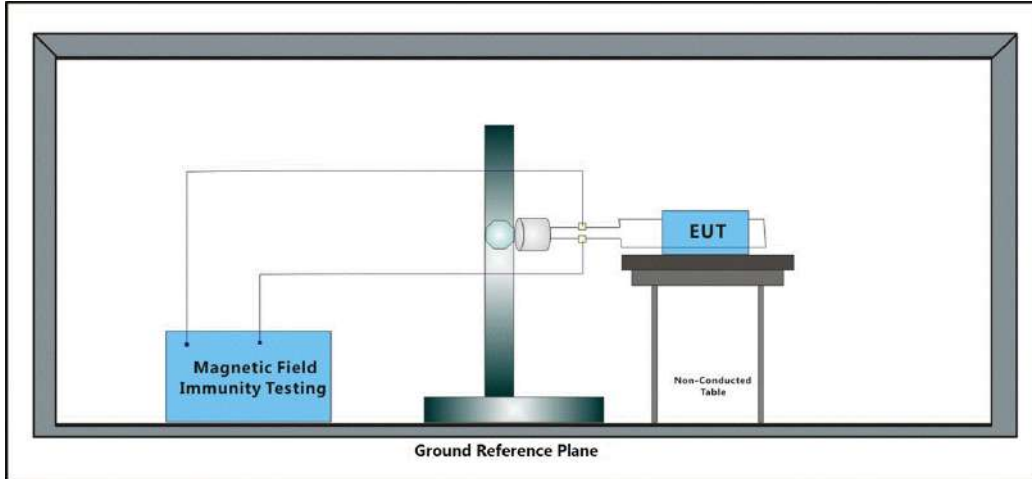


**7.9 Power Frequency Magnetic Field**

Test Requirement: EN IEC 61000-6-2: 2019

Test Method: EN 61000-4-8:2010

**7.9.1 Test Setup Diagram**



**7.9.2 E.U.T. Operation**

Operating Environment:

Temperature: 21.3 °C

Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

**7.9.3 Test Mode Description**

| Pre-scan / Final test | Mode Code | Description  |
|-----------------------|-----------|--|
| Final test            | 00        | Keep EUT1_(NYX660) working continuously with Auxiliary equipment |
| Final test            | 01        | Keep EUT2_(NYX650) working continuously with Auxiliary equipment |

**7.9.4 Test Condition and Results:**

Performance Criterion:A

| Frequency | Level (A/m) | Axial | Magnetic Field Type | Result / Observations |
|-----------|-------------|-------|---------------------|-----------------------|
| 50 Hz     | 30          | X     | Continue            | A                     |
| 50 Hz     | 30          | Y     | Continue            | A                     |
| 50 Hz     | 30          | Z     | Continue            | A                     |

A: No degradation in the performance of the EUT was observed

## 8 Test Setup Photo

### Conducted Emissions at DC Power Port (150kHz-30MHz)



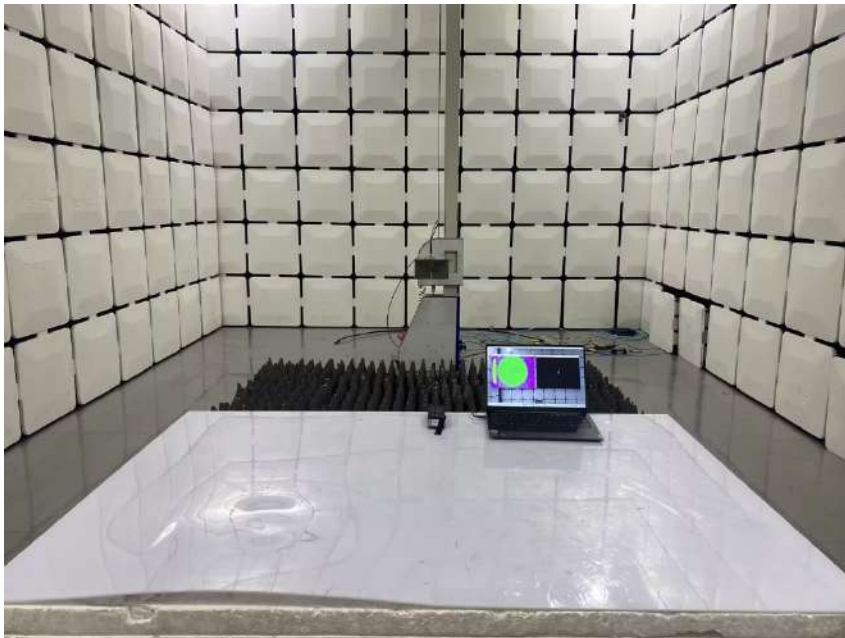
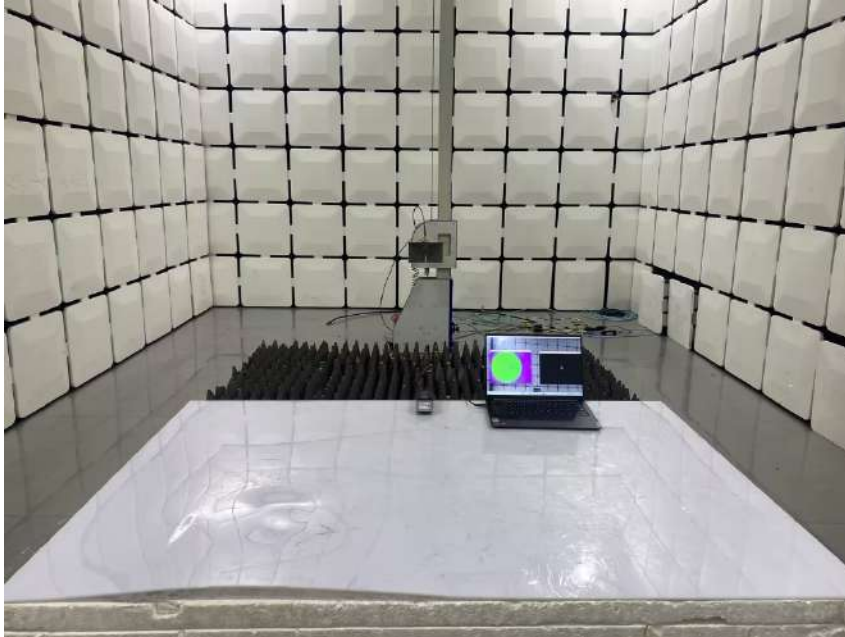
### Conducted Emissions at Wired Network Port (150kHz-30MHz)



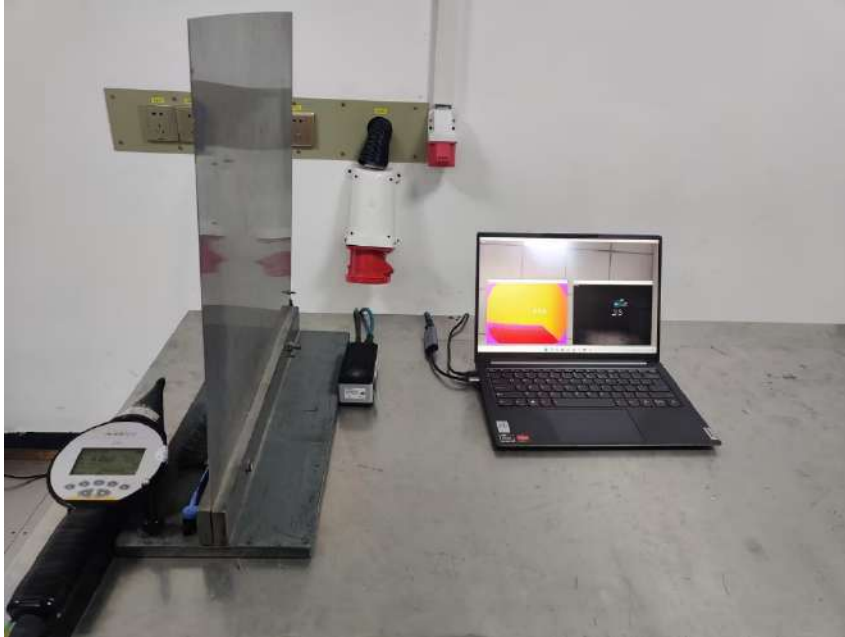
### Radiated Emissions (30MHz-1GHz)



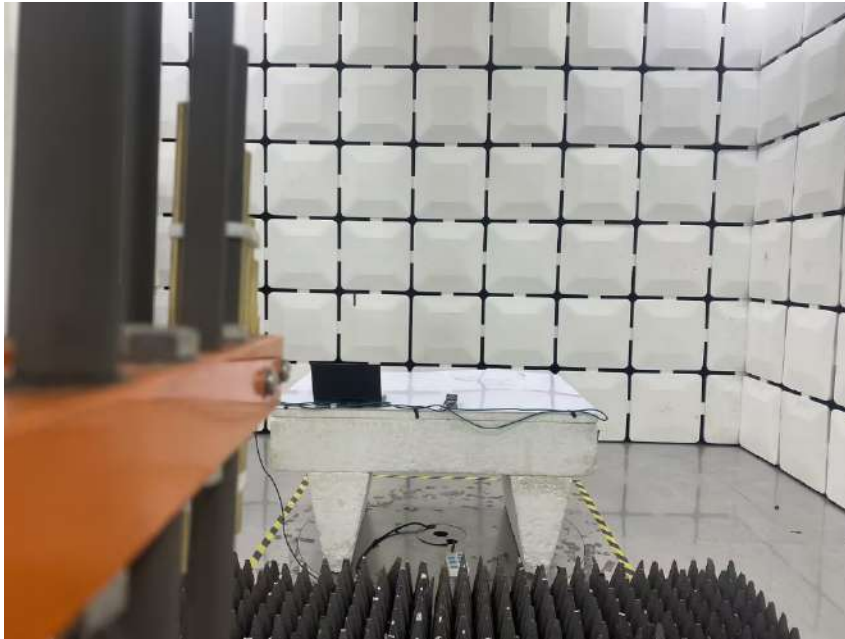
### Radiated Emissions (Above 1GHz)



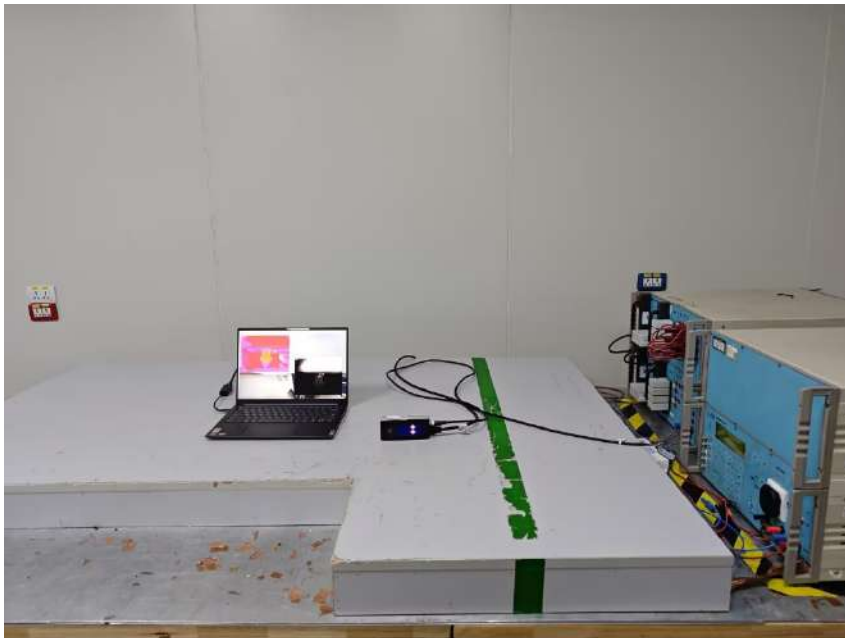
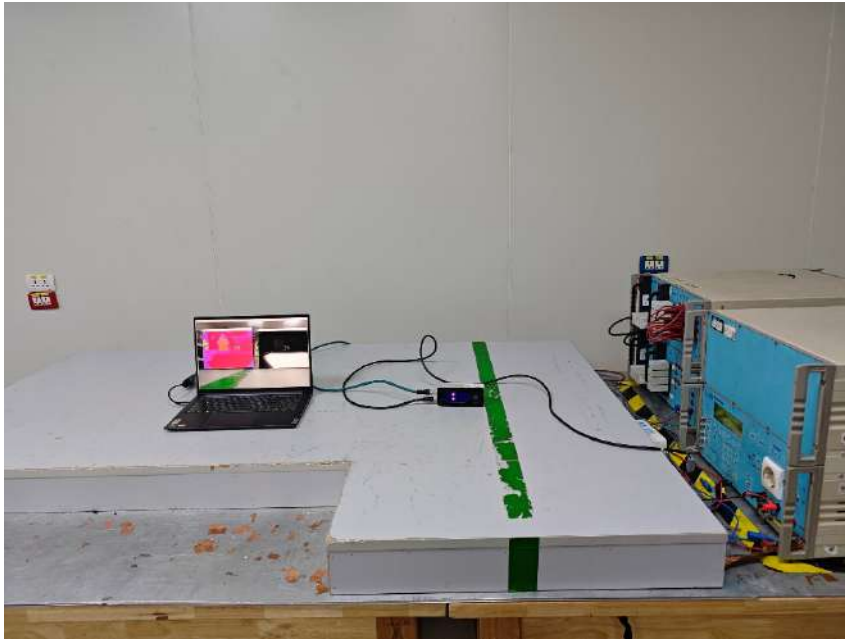
### Electrostatic Discharge



### Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

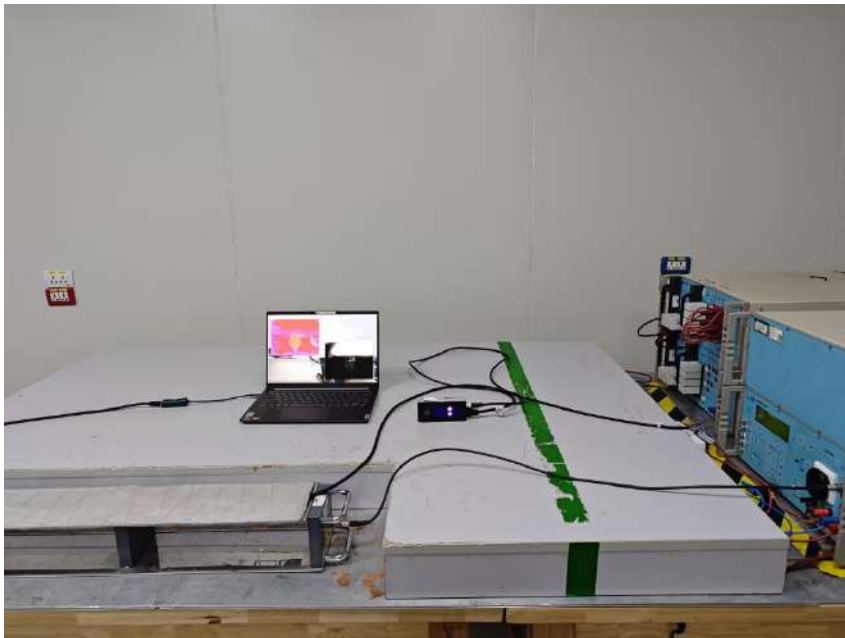
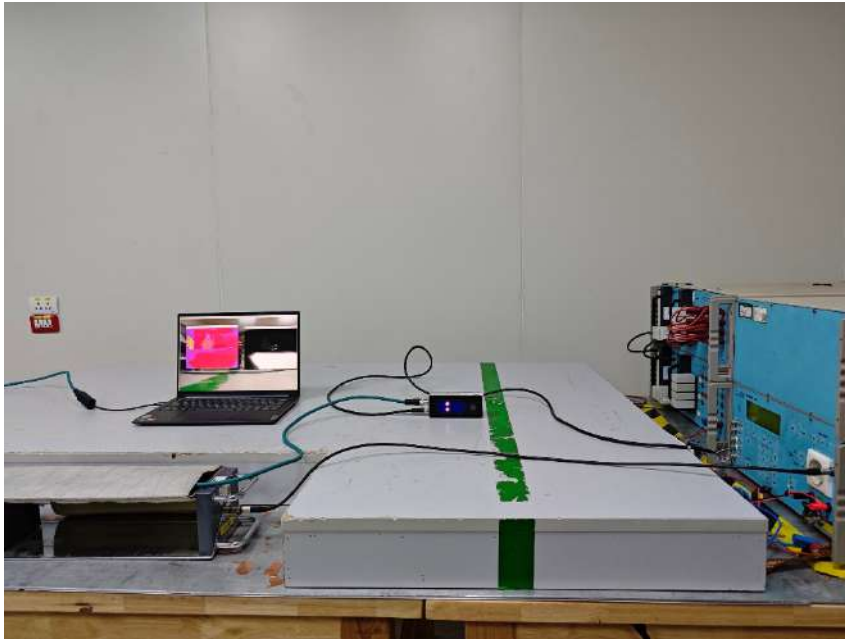


### Electrical Fast Transients Burst at DC Power Port

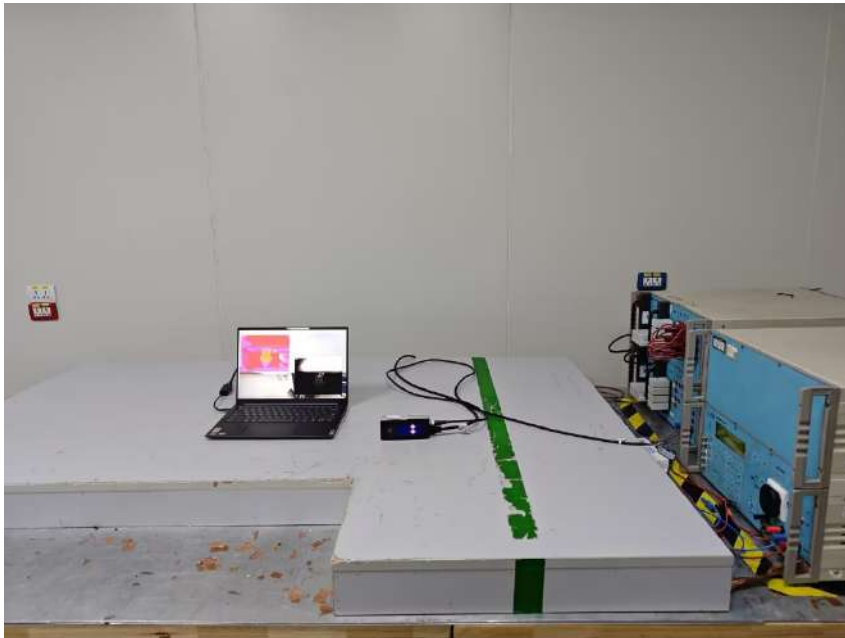
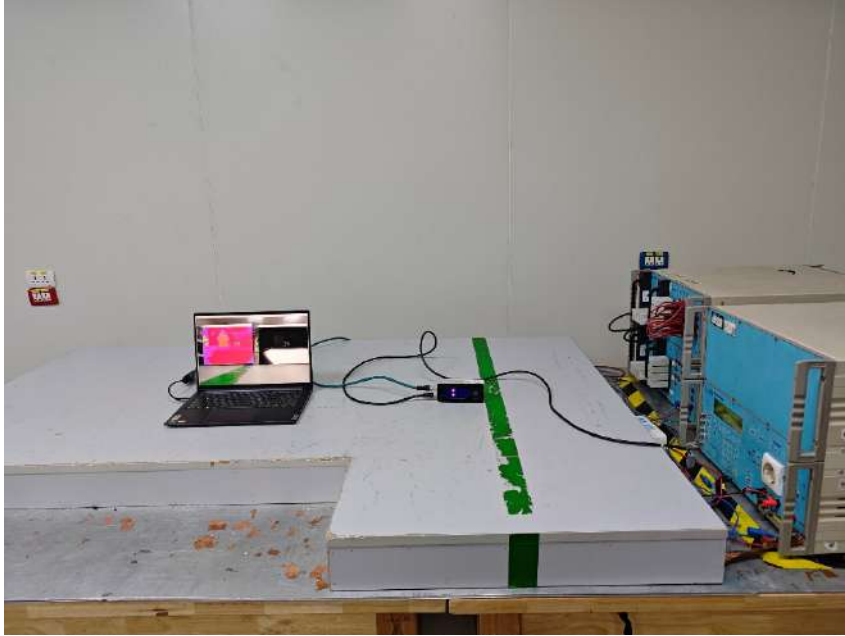




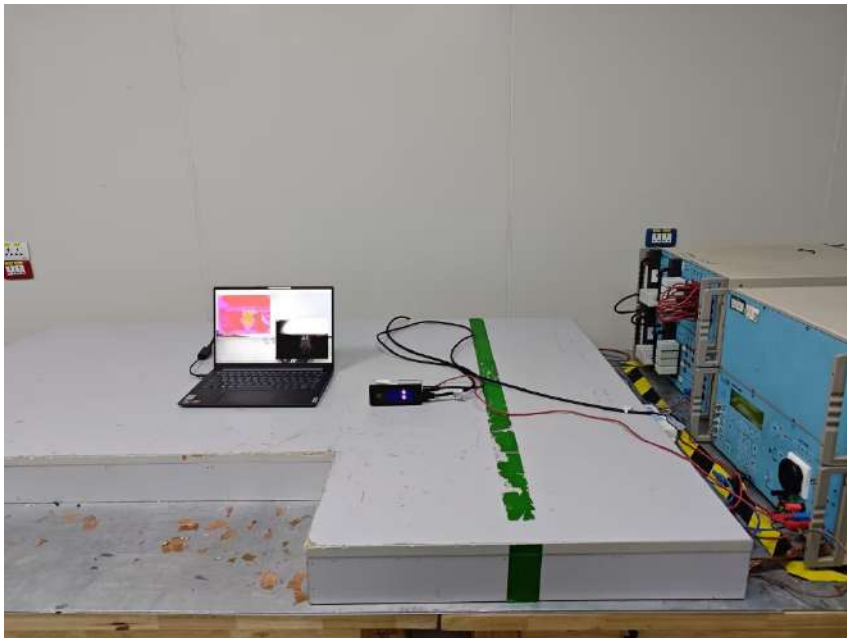
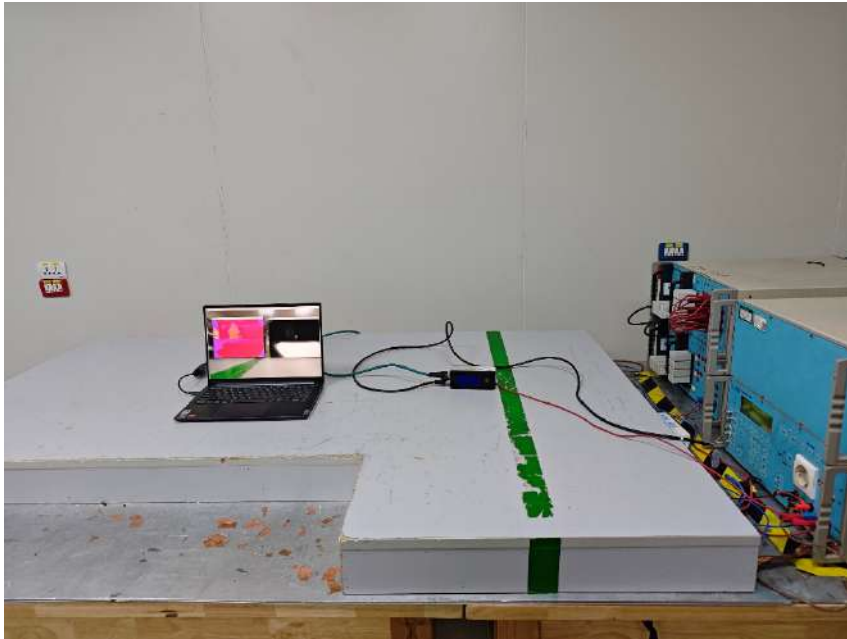
### Electrical Fast Transients Burst at Signal Port



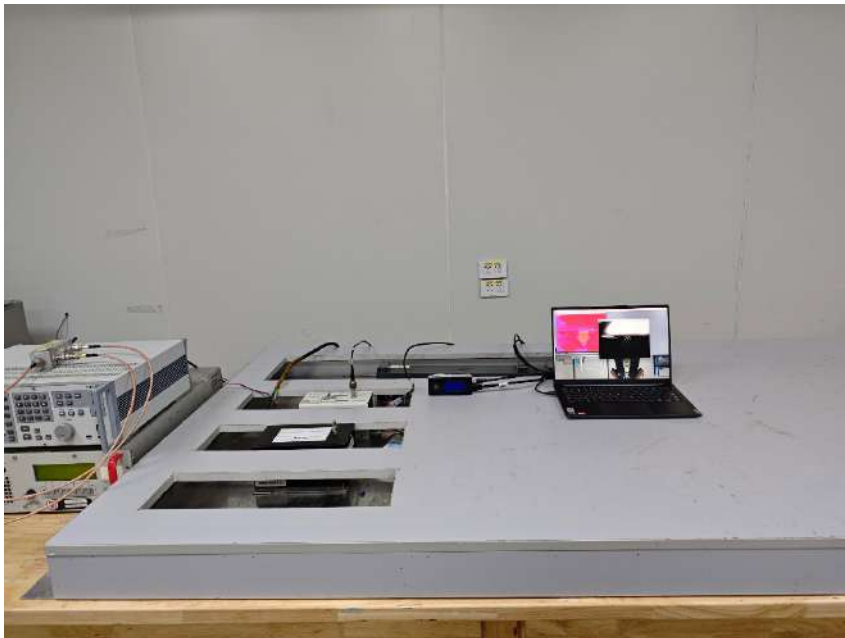
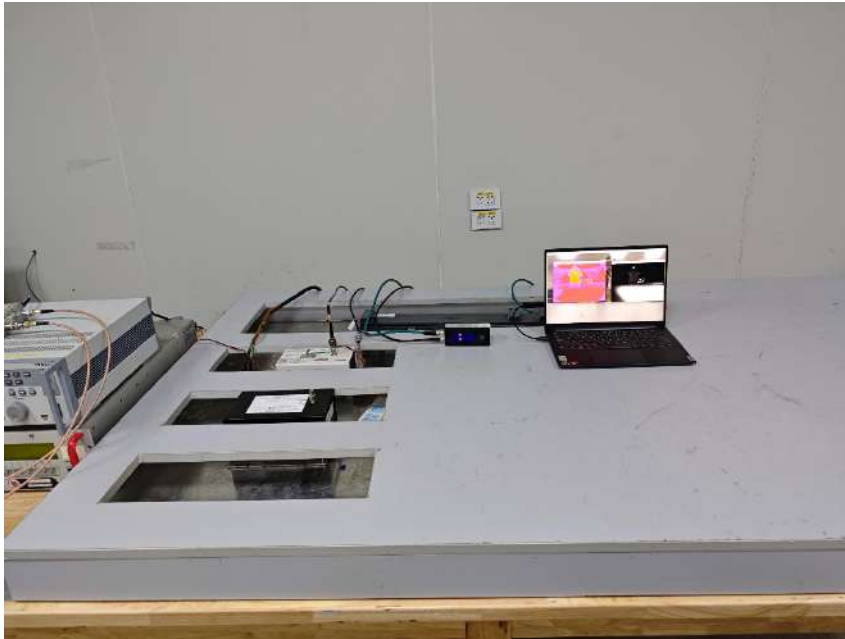
### Surge at DC Power Port



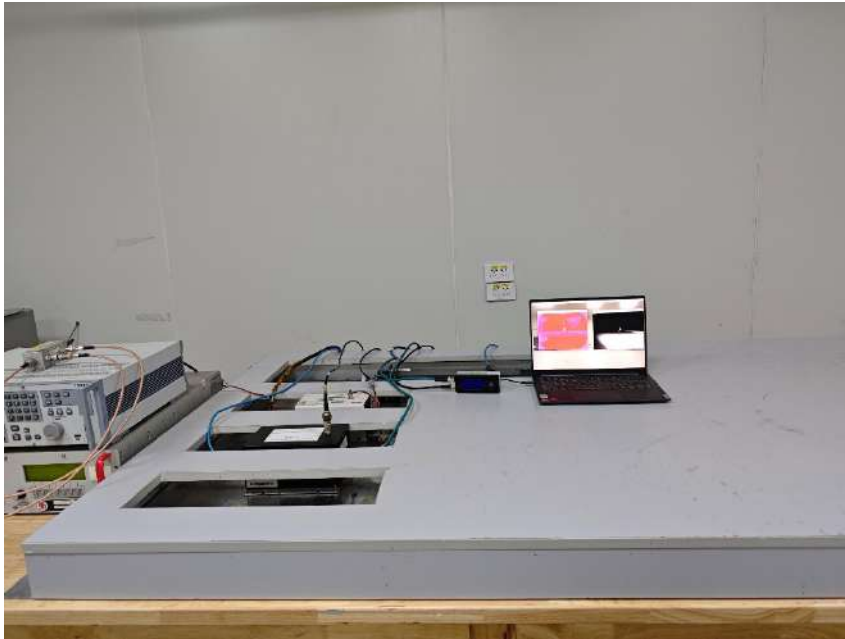
### Surge at Signal Port



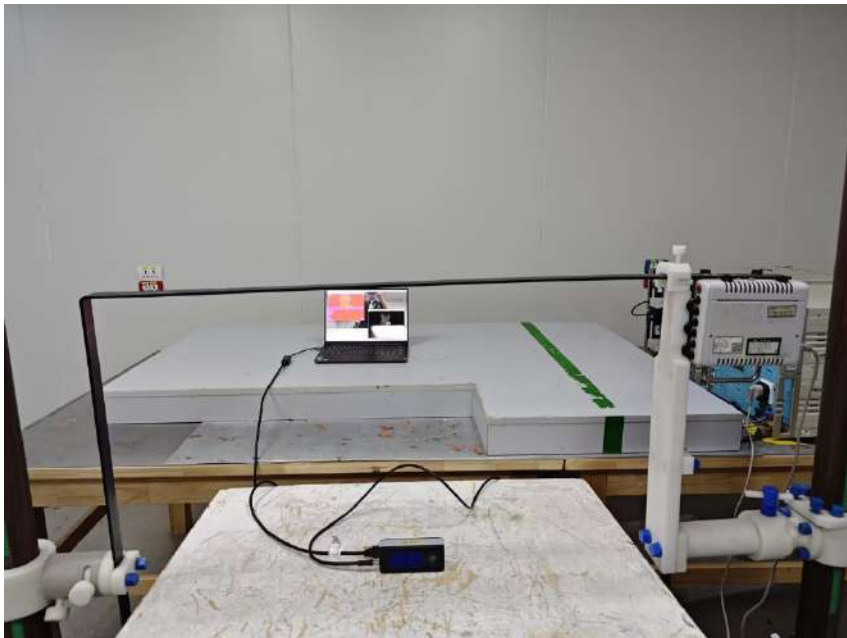
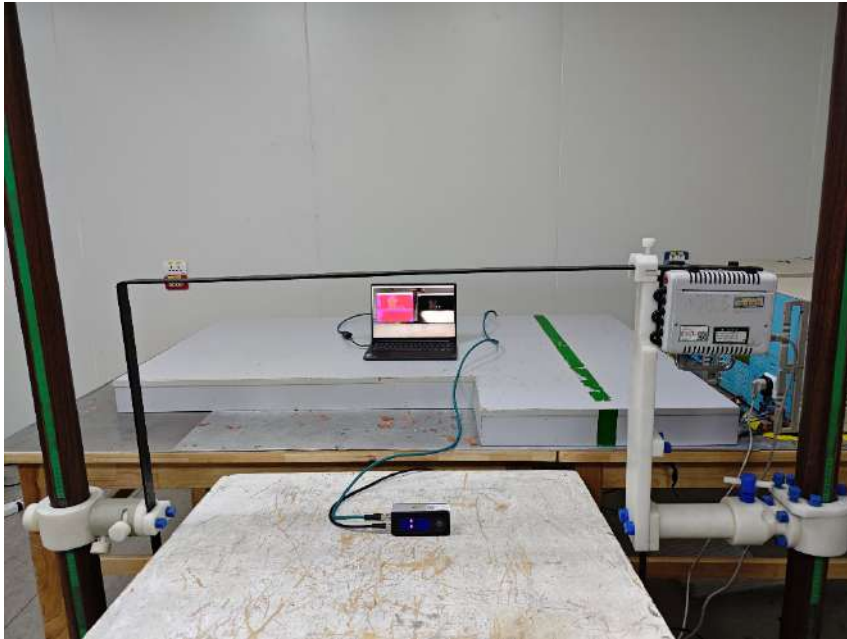
### Conducted Immunity at DC Power Port (150kHz-80MHz)



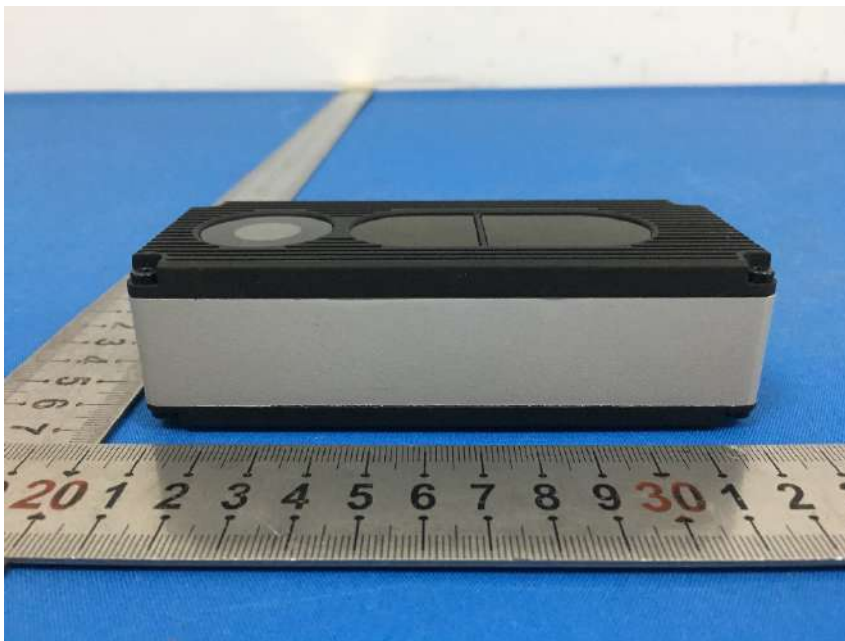
### Conducted Immunity at Signal Port (150kHz-80MHz)



### Power Frequency Magnetic Field



### 9 EUT Constructional Details (EUT Photos)



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