

# TEST REPORT

**Application No.:** GZCR2505000680HS  
**Applicant:** BAUF HOME GmbH  
**Address of Applicant:** Frankfurter Straße 16, 74072 Heilbronn, Germany  
**Manufacturer:** BAUF HOME GmbH  
**Address of Manufacturer:** Frankfurter Straße 16, 74072 Heilbronn, Germany  
**Factory:** TCL Air Conditioner (Zhong Shan) Co., Ltd.  
**Address of Factory:** 59 Nantou Road West, Nantou, Zhongshan, Guangdong, China  
**Product Name:** Air conditioner  
**Model No.:** BRAC-SP-INE2-9-R3  
(Indoor unit: BRAC-SP-INE2-9-R3-I, Outdoor unit: BRAC-SP-INE2-9-R3-O)

♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

**Trade Mark:** **BAUF**

**Standard(s) :** EN IEC 55014-1: 2021  
EN IEC 55014-2: 2021  
EN IEC 61000-3-2: 2019+A1:2021+A2:2024  
EN 61000-3-3: 2013+ A1:2019+A2:2021

**Date of Receipt:** 2024-11-06  
**Date of Test:** 2024-11-20 to 2024-12-03  
**Date of Issue:** 2025-07-03

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

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



Jerry Chan  
Manager



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| Revision Record |                     |            |   |
|-----------------|---------------------|------------|---|
| Version         | Report No.          | Date       | Remark  |
| 01              | GZCR241100132301    | 2024-12-24 | Original  |
| C01             | GZCR241100132301C01 | 2025-07-03 | Amendment report: Changed applicant, manufacturer, product name, model No. & trademark; updated standard. |
|                 |                     |            |   |

| Authorized for issue by: |  |                            |  |
|--------------------------|--|----------------------------|--|
|                          |  | Pank Feng                  |  |
|                          |  | Pank Feng/Project Engineer |  |
|                          |  | Vico Cui                   |  |
|                          |  | Vico Cui/Reviewer          |  |



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## 2 Test Summary

| Emission Part  |   |                                     |              |        |
|--|---|-------------------------------------|--------------|--------|
| Item   | Standard                                | Method                              | Requirement  | Result |
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz)      | EN IEC 55014-1: 2021                    | CISPR 16-2-1: 2014+A1:2017          | Table 5      | Pass   |
| Conducted Emissions at Load Terminals and Additional Terminals |   | CISPR 16-2-1: 2014+A1:2017          | Table 5      | Pass   |
| Disturbance Power  |   | CISPR 16-2-2:2010                   | Table 7 & 8  | Pass   |
| Harmonic Current Emission                                      | EN IEC 61000-3-2: 2019+A1:2021 +A2:2024 | EN IEC 61000-3-2: 2019+A1:2021      | Class A      | Pass   |
| Voltage Fluctuations and Flicker                               | EN 61000-3-3: 2013+ A1:2019+A2:2021     | EN 61000-3-3: 2013+ A1:2019+A2:2021 | Clause 5     | Pass   |
| Discontinuous Disturbance (150kHz-30MHz)                       | EN IEC 55014-1: 2021                    | EN IEC 55014-1: 2021                | Clause 4.4.2 | Pass   |

| Immunity Part   |                      |                            |   |        |
|---|----------------------|----------------------------|---|--------|
| Item  | Standard             | Method                     | Requirement   | Result |
| Electrostatic Discharge                                   | EN IEC 55014-2: 2021 | EN 61000-4-2:2009          | 4kV Contact Discharge, 8kV Air Discharge  | Pass   |
| Electrical Fast Transients Burst at AC Mains Power Port   |                      | EN 61000-4-4:2012          | 1kV, 5/50ns Tr/Td, 5kHz Repetition Frequency  | Pass   |
| Electrical Fast Transients Burst at Signal Port           |                      | EN 61000-4-4:2012          | 0.5kV, 5/50ns Tr/Td, 5kHz Repetition Frequency  | Pass   |
| Surge at AC Mains Power Port                              |                      | EN 61000-4-5: 2014+A1:2017 | 1.2/50µs Tr/Td, 1kV Line to Line, 2kV Line to Ground  | Pass   |
| Conducted Immunity at AC Mains Power Port (150kHz-230MHz) |                      | EN 61000-4-6: 2014         | 3Vrms (emf),80%,1kHz Amp. Mod.  | Pass   |
| Conducted Immunity at Signal Port (150kHz-230MHz)         |                      | EN 61000-4-6: 2014         | 1Vrms (emf),80%,1kHz Amp. Mod.  | Pass   |
| Voltage Dips and Interruptions                            |                      | EN IEC 61000-4-11: 2020    | For 50Hz: 0 % UT for 0.5cycle, 40 % UT for 10cycles, 70 % UT for 25cycles, UT is Supply Voltage | Pass   |



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**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

**♣ Declaration of EUT Family Grouping:**

Model No.:

TAC-09CHSD(080002)/\*1 (Series \* = Z, HA, IA, KA, HC, JC, KC, HD, KD, JE, KE, WE, LF, IF, KF, VA, VB, VC, VD, VE, VF, XA11, XA21, XA31, XA41, XA51, XA61, XA71, XA72, XA81, XA82, XA91, XAA1, XAB1, XAC1, XAD1, XAE1, YA11, YA21, YA31, TP11, TP21, TP31, TP41, TP51, TP61, TP71, TP72, TP81, TP91, TPA1, TPB1, TPG11, TPH21, TPG21, TPG31, UA11, UA12, UG11, UG21, UG31, UA21, TPH11, TPH21, DWA, LGA), S09P9S1 (Indoor unit:SN09P9S1, Outdoor unit:ST09P3),

TAC-09CHSD/UG11V3A

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the color of panel.

Therefore, only one model TAC-09CHSD(080002)/UA11I was tested in this report.

**Remark:**

All models are with removeable RF module, each model can be with RF module or without RF module. Main test model TAC-09CHSD(080002)/UA11I with RF module.

**♣ Remark for the report GZCR241100132301C01:**

This report GZCR241100132301C01 is based on original report GZCR241100132301, with the following changes:

1. Changed applicant and manufacturer.
2. Changed product name.
3. Changed model No. to BRAC-SP-INE2-9-R3 (Indoor unit: BRAC-SP-INE2-9-R3-I, Outdoor unit: BRAC-SP-INE2-9-R3-O).

According to the declaration from the applicant, the model BRAC-SP-INE2-9-R3 (Indoor unit: BRAC-SP-INE2-9-R3-I, Outdoor unit: BRAC-SP-INE2-9-R3-O) in this report and model TAC-09CHSD(080002)/UA11I in original report are totally same in the electrical circuit design, layout, components used and internal wiring, only being different in the model name and trade mark.

4. Changed trademark to **BAUF**.

5. Updated below standard:

| Standard in original report    | Standard in report                     |
|--------------------------------|--|
| EN IEC 61000-3-2: 2019+A1:2021 | EN IEC 61000-3-2: 2019+A1:2021+A2:2024 |

Reviewed the updated standards, all the technical requirements for the product between original and the newest standards' versions are identical, therefore it's acceptable to update standard without further testing.

Therefore, test data in GZCR241100132301 was kept in this report GZCR241100132301C01.



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## 4 General Information

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

Power supply: AC 220-240V 50Hz  
 Clock frequency:<15MHz  
 Test Voltage: AC 230V

Cable(s): AC mains cable:3 wires 2.0m unshielded  
 signal cable:5.0m unshielded

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

| Test Item  | Measurement Uncertainty                                      |
|--|--|
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz)      | 3.22dB (150kHz to 30MHz)                                     |
| Conducted Emissions at Load Terminals and Additional Terminals | 2.50dB (150kHz to 30MHz):CVP;<br>2.04dB (150kHz to 30MHz):CP |
| Disturbance Power  | 3.60dB (30MHz-300MHz)  |

Remark:  
 The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR}$  (CISPR Uncertainty) or  $U_{ETSI}$  (ETSI Uncertainty).

Emission decision rule:  
 – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.  
 – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

Immunity decision rule:  
 – Pass means the observation meets the Performance Criterion requirement.  
 – Fail means the observation doesn't meet the Performance Criterion requirement.

### 4.4 Test Location

All tests were performed at:  
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,  
 Guangdong, China 510663  
 Tel: +86 20 82155555  
 No tests were sub-contracted.



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### 4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None

### 4.8 EMS Monitor

Visual: Monitor the motor running statue of the EUT



## 5 Equipment List

| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) |                   |                |               |            |              |
|---|-------------------|----------------|---------------|------------|--------------|
| Equipment   | Manufacturer      | Model No.      | Inventory No. | Cal Date   | Cal Due Date |
| Coaxial Cable   | HangTianXing      | 2m             | EMC0107       | 2023-08-24 | 2025-08-23   |
| Shielding Room  | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306       | 2022-10-16 | 2025-10-15   |
| Two-Line V-Network-GZ                                     | Rohde & Schwarz   | ENV216         | EMC2135       | 2024-09-02 | 2025-09-01   |
| EMI Test Receiver (9kHz-3.6GHz)                           | Rohde & Schwarz   | ESR3           | EMC2221       | 2024-05-13 | 2025-05-12   |
| Test Software E3r   | Audix             | Ver.6.191211   | GZE100-77     | N/A        | N/A          |
| Artificial Mains Network (LISN)                           | AFJ Instruments   | LT32C          | EMC2046       | 2024-10-14 | 2025-10-13   |

| Conducted Emissions at Load Terminals and Additional Terminals |                             |                |               |            |              |
|--|-----------------------------|----------------|---------------|------------|--------------|
| Equipment  | Manufacturer                | Model No.      | Inventory No. | Cal Date   | Cal Due Date |
| Coaxial Cable  | HangTianXing                | 2m             | EMC0107       | 2023-08-24 | 2025-08-23   |
| Voltage Probe (10kHz-30MHz)                                    | SCHWARZBECK MESS-ELEKTRONIK | TK 9421        | EMC0106       | 2024-05-13 | 2025-05-12   |
| Shielding Room   | ChangZhou ZhongYu           | 8m x 3m x 3.8m | EMC0306       | 2022-10-16 | 2025-10-15   |
| Two-Line V-Network-GZ  | Rohde & Schwarz             | ENV216         | EMC2135       | 2024-09-02 | 2025-09-01   |
| EMI Test Receiver (9kHz-3.6GHz)                                | Rohde & Schwarz             | ESR3           | EMC2221       | 2024-05-13 | 2025-05-12   |
| Test Software E3r  | Audix                       | Ver.6.191211   | GZE100-77     | N/A        | N/A          |
| Current Probe (10kHz-200MHz)                                   | TESEQ GmbH                  | CSP 9160A      | EMC2106       | 2022-12-20 | 2024-12-19   |

| Harmonic Current Emission                              |              |               |               |            |              |
|--|--------------|---------------|---------------|------------|--------------|
| Equipment  | Manufacturer | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| Digital power analyzer for harmonics & flicker testing | EMTEST       | DPA 500N      | EMC2235       | 2024-04-19 | 2025-04-18   |
| Programmable multifunctional ac/dc power source        | EMTEST       | NETWAVE 7-400 | EMC2234       | 2024-04-19 | 2025-04-18   |
| NET.Control  | EMTEST       | Ver 3.2.3     | GZE100-80     | N/A        | N/A          |



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| Disturbance Power                    |                        |                |               |            |              |
|--------------------------------------|------------------------|----------------|---------------|------------|--------------|
| Equipment                            | Manufacturer           | Model No.      | Inventory No. | Cal Date   | Cal Due Date |
| Shielding Room                       | ChangZhou ZhongYu      | 8m x 3m x 3.8m | EMC0306       | 2022-10-16 | 2025-10-15   |
| EMI Test Receiver (9kHz-3.6GHz)      | Rohde & Schwarz        | ESR3           | EMC2221       | 2024-05-13 | 2025-05-12   |
| Test Software E3r                    | Audix                  | Ver.6.191211   | GZE100-77     | N/A        | N/A          |
| Slide Bar RP (KMS560)                | HD-GmbH                | KMS560         | EMC0103       | N/A        | N/A          |
| Slide Bar Controller (HD50)          | HD-GmbH                | HD50           | EMC0305       | N/A        | N/A          |
| Absorbing Clamp-AUX                  | Beijing Dazhe Co. Ltd. | ZN23201        | EMC2040       | 2023-12-04 | 2024-12-03   |
| Absorbing Clamp-Main                 | Rohde & Schwarz        | MDS-21         | EMC2184       | 2024-02-20 | 2025-02-19   |
| 6 dB Attenuator with 8m length cable | Rohde & Schwarz        | MDS-21         | EMC2185       | 2024-02-19 | 2025-02-18   |

| Voltage Fluctuations and Flicker                       |              |               |               |            |              |
|--|--------------|---------------|---------------|------------|--------------|
| Equipment  | Manufacturer | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| Digital power analyzer for harmonics & flicker testing | EMTEST       | DPA 500N      | EMC2235       | 2024-04-19 | 2025-04-18   |
| Programmable multifunctional ac/dc power source        | EMTEST       | NETWAVE 7-400 | EMC2234       | 2024-04-19 | 2025-04-18   |
| NET.Control  | EMTEST       | Ver 3.2.3     | GZE100-80     | N/A        | N/A          |

| Discontinuous Disturbance (150kHz-30MHz) |                             |            |               |            |              |
|--|-----------------------------|------------|---------------|------------|--------------|
| Equipment                                | Manufacturer                | Model No.  | Inventory No. | Cal Date   | Cal Due Date |
| Click Analyzer (PMM CA0010)              | Narda Safety Test Solutions | PMM CA0010 | EMC2182       | 2024-09-02 | 2025-09-01   |
| EMI Receiver (10Hz-30MHz)                | Narda Safety Test Solutions | PMM 9010F  | EMC2183       | 2024-09-02 | 2025-09-01   |
| Test Software PMM Click Analysis         | Narda Safety Test Solutions | Ver 1.06   | GZE100-76     | N/A        | N/A          |



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| <b>Electrostatic Discharge</b> |  |           |               |            |              |
|--------------------------------|--|-----------|---------------|------------|--------------|
| Equipment                      | Manufacturer   | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| ESD Ground Plane               | SGS-EMC  | 3m x 3m   | EMC0804       | N/A        | N/A          |
| Aneroid Barometer              | Shanghai Meteorological Instrument Factory Co., Ltd. | YM3       | EMC2181       | 2024-10-31 | 2025-10-30   |
| ESD Simulator-E                | EMTEST   | NX30      | EMC2186       | 2024-02-20 | 2025-02-19   |

| <b>Electrical Fast Transients Burst at AC Mains Power Port</b> |              |                                |               |            |              |
|--|--------------|--------------------------------|---------------|------------|--------------|
| Equipment  | Manufacturer | Model No.                      | Inventory No. | Cal Date   | Cal Due Date |
| Oscilloscope   | Tektronix    | TDS3052C                       | EMC2055       | 2024-10-14 | 2025-10-13   |
| EMC Immunity Test System                                       | TESEQ AG     | NSG 3060&CDN306 1&INA 6502 CIB | EMC2072       | 2023-12-15 | 2024-12-14   |
| Test Software WIN 3000   | TESEQ AG     | Ver 1.3.2                      | GZE100-68     | N/A        | N/A          |

| <b>Electrical Fast Transients Burst at Signal Port</b> |              |                                |               |            |              |
|--|--------------|--------------------------------|---------------|------------|--------------|
| Equipment  | Manufacturer | Model No.                      | Inventory No. | Cal Date   | Cal Due Date |
| Oscilloscope   | Tektronix    | TDS3052C                       | EMC2055       | 2024-10-14 | 2025-10-13   |
| EFT/burst capacitive coupling clamp                    | TESEQ AG     | CDN3425                        | EMC2072-AE1   | 2023-12-15 | 2024-12-14   |
| EMC Immunity Test System                               | TESEQ AG     | NSG 3060&CDN306 1&INA 6502 CIB | EMC2072       | 2023-12-15 | 2024-12-14   |
| Test Software WIN 3000                                 | TESEQ AG     | Ver 1.3.2                      | GZE100-68     | N/A        | N/A          |

| <b>Surge at AC Mains Power Port</b> |              |                                |               |            |              |
|-------------------------------------|--------------|--------------------------------|---------------|------------|--------------|
| Equipment                           | Manufacturer | Model No.                      | Inventory No. | Cal Date   | Cal Due Date |
| Oscilloscope                        | Tektronix    | TDS3052C                       | EMC2055       | 2024-10-14 | 2025-10-13   |
| EMC Immunity Test System            | TESEQ AG     | NSG 3060&CDN306 1&INA 6502 CIB | EMC2072       | 2023-12-15 | 2024-12-14   |
| Test Software WIN 3000              | TESEQ AG     | Ver 1.3.2                      | GZE100-68     | N/A        | N/A          |



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| Conducted Immunity at AC Mains Power Port (150kHz-230MHz) |                         |                 |               |            |              |
|---|-------------------------|-----------------|---------------|------------|--------------|
| Equipment   | Manufacturer            | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Dual Directional coupler                                  | Werlatone Inc.          | C1795           | EMC1105       | 2024-05-13 | 2025-05-12   |
| CDN M2  | Schaffner Chase         | CDN-M2-16       | EMC1107       | 2024-10-14 | 2026-10-13   |
| CDN M2/M3   | Elektronik-Feinmechanik | L-801:M2/M3     | EMC2048       | 2024-06-17 | 2025-06-16   |
| Test System for Conducted and Radiated Immunity           | TESEQ AG                | NSG 4070B-80    | EMC2115       | 2024-10-14 | 2025-10-13   |
| Audio Analyzer  | Keysight                | U8903B          | EMC2180       | 2024-08-30 | 2025-08-29   |
| Test Software NSG4070_Ctrl1                               | TESEQ AG                | Ver.1.3.0.1     | GZE100-72     | N/A        | N/A          |
| Oscilloscope  | Tektronix               | TDS3052C        | EMC2055       | 2024-10-14 | 2025-10-13   |
| 6dB Attenuator  | Shanghai Huaxiang       | WDTS150-6-2.5-B | EMC2116       | 2024-06-17 | 2025-06-16   |

| Conducted Immunity at Signal Port (150kHz-230MHz) |                         |                 |               |            |              |
|---|-------------------------|-----------------|---------------|------------|--------------|
| Equipment   | Manufacturer            | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Dual Directional coupler                          | Werlatone Inc.          | C1795           | EMC1105       | 2024-05-13 | 2025-05-12   |
| EM Clamp(10k-1000MHz)                             | TESEQ                   | KEMZ801B        | EMC2255       | 2024-08-19 | 2025-08-18   |
| RF Attenuation Clamp(150k-1000MHz)                | TESEQ                   | KEMA801B        | EMC2256       | 2024-08-19 | 2025-08-18   |
| CDN M2/M3   | Elektronik-Feinmechanik | L-801:M2/M3     | EMC2048       | 2024-06-17 | 2025-06-16   |
| COUPLING AND DECOUPLING NETWORK (150kHz-230MHz)   | TESEQ AG                | CDN ST08A       | EMC2112       | 2023-07-04 | 2025-07-03   |
| CDN S502A   | TESEQ AG                | CDN S502A       | EMC2113       | 2023-07-04 | 2025-07-03   |
| Coupling Decoupling Network (150kHz-230MHz)       | TESEQ AG                | CDN USB3.0      | EMC2114       | 2023-07-04 | 2025-07-03   |
| Test System for Conducted and Radiated Immunity   | TESEQ AG                | NSG 4070B-80    | EMC2115       | 2024-10-14 | 2025-10-13   |
| Audio Analyzer                                    | Keysight                | U8903B          | EMC2180       | 2024-08-30 | 2025-08-29   |
| Test Software NSG4070_Ctrl1                       | TESEQ AG                | Ver.1.3.0.1     | GZE100-72     | N/A        | N/A          |
| Oscilloscope                                      | Tektronix               | TDS3052C        | EMC2055       | 2024-10-14 | 2025-10-13   |
| 6dB Attenuator                                    | Shanghai Huaxiang       | WDTS150-6-2.5-B | EMC2116       | 2024-06-17 | 2025-06-16   |



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| Voltage Dips and Interruptions |              |   |               |            |              |
|--------------------------------|--------------|---|---------------|------------|--------------|
| Equipment                      | Manufacturer | Model No.                               | Inventory No. | Cal Date   | Cal Due Date |
| Oscilloscope                   | Tektronix    | TDS3052C                                | EMC2055       | 2024-10-14 | 2025-10-13   |
| EMC Immunity Test System       | TESEQ AG     | NSG<br>3060&CDN306<br>1&INA 6502<br>CIB | EMC2072       | 2023-12-15 | 2024-12-14   |
| Test Software WIN 3000         | TESEQ AG     | Ver 1.3.2                               | GZE100-68     | N/A        | N/A          |

| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2024-06-13 | 2025-06-12   |
| DMM                    | Fluke        | 73       | EMC0007      | 2024-06-13 | 2025-06-12   |



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## 6 Emission Test Results

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

|                   |  |
|-------------------|--|
| Test Requirement: | EN IEC 55014-1: 2021   |
| Test Method:      | CISPR 16-2-1:2014+A1:2017                                    |
| Limit:            |  |
| 0.15M-0.5MHz      | 66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average      |
| 0.5M-5MHz         | 56dB(μV) quasi-peak, 46dB(μV) average                        |
| 5M-30MHz          | 60dB(μV) quasi-peak, 50dB(μV) average                        |
| Detector:         | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

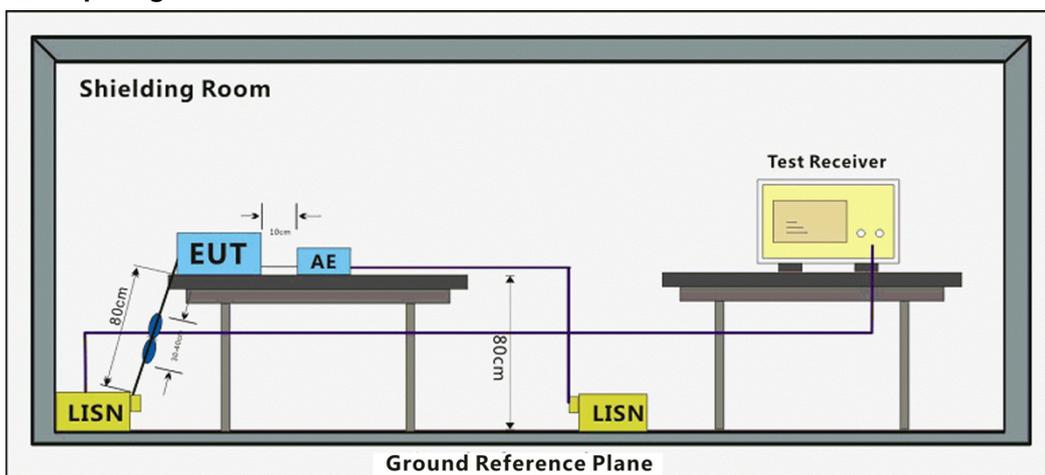
#### 6.1.1 E.U.T. Operation

|                        |         |                       |           |
|------------------------|---------|-----------------------|-----------|
| Operating Environment: |         |                       |           |
| Temperature:           | 24.5 °C | Humidity:             | 56.1 % RH |
|                        |         | Atmospheric Pressure: | 1013 mbar |

#### 6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Pre-scan              | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |

#### 6.1.3 Test Setup Diagram



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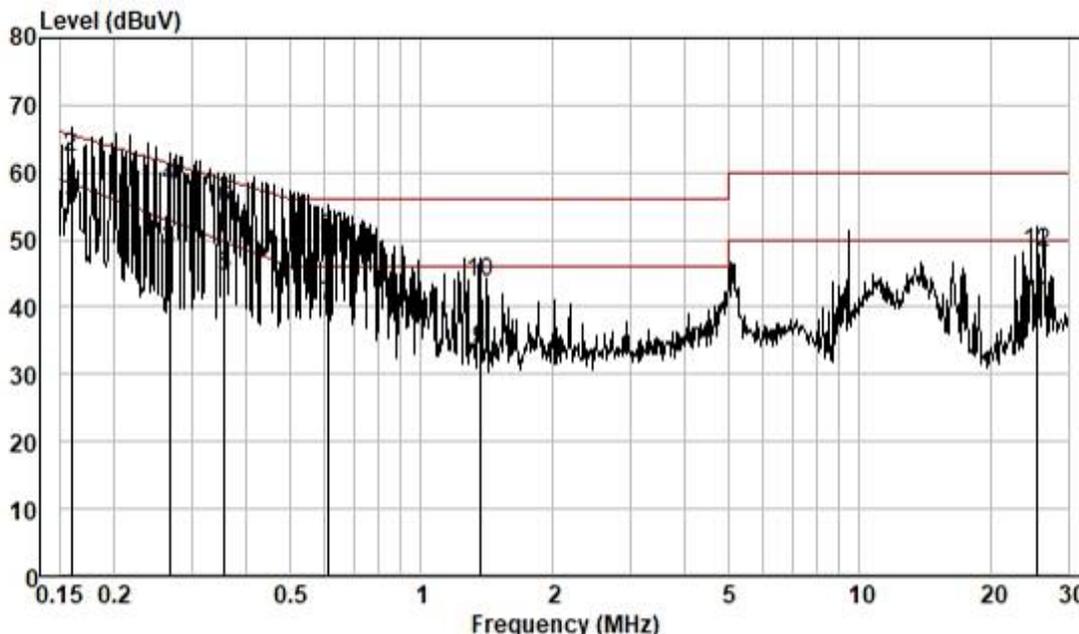
### 6.1.4 Measurement Procedure and Data

Frequency Range: 150kHz to 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

Test Mode: 04; Line: Live line



Pol : LINE  
 Mode :  
 Model :  
 Power :

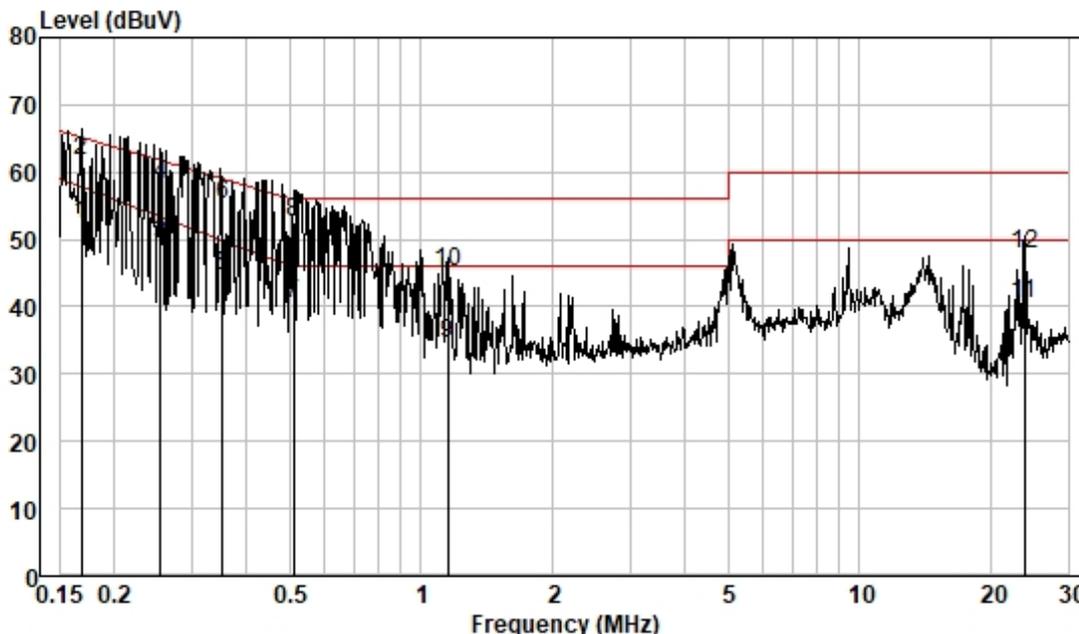
|    | Freque<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Remark  |
|----|---------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 0.159         | 44.36                 | 0.04                | 9.56                 | 53.96                     | 58.37                 | -4.41               | Average |
| 2  | 0.159         | 52.75                 | 0.04                | 9.56                 | 62.35                     | 65.52                 | -3.17               | QP      |
| 3  | 0.267         | 38.92                 | 0.04                | 9.58                 | 48.54                     | 52.76                 | -4.22               | Average |
| 4  | 0.267         | 48.30                 | 0.04                | 9.58                 | 57.92                     | 61.20                 | -3.28               | QP      |
| 5  | 0.356         | 34.86                 | 0.05                | 9.58                 | 44.49                     | 49.67                 | -5.18               | Average |
| 6  | 0.356         | 44.93                 | 0.05                | 9.58                 | 54.56                     | 58.83                 | -4.27               | QP      |
| 7  | 0.611         | 30.51                 | 0.06                | 9.55                 | 40.12                     | 46.00                 | -5.88               | Average |
| 8  | 0.611         | 40.46                 | 0.06                | 9.55                 | 50.07                     | 56.00                 | -5.93               | QP      |
| 9  | 1.359         | 24.12                 | 0.09                | 9.57                 | 33.78                     | 46.00                 | -12.22              | Average |
| 10 | 1.359         | 34.00                 | 0.09                | 9.57                 | 43.66                     | 56.00                 | -12.34              | QP      |
| 11 | 25.456        | 30.22                 | 0.43                | 9.84                 | 40.49                     | 50.00                 | -9.51               | Average |
| 12 | 25.456        | 37.93                 | 0.43                | 9.84                 | 48.20                     | 60.00                 | -11.80              | QP      |



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Test Mode: 04; Line: Neutral Line



Pol : NEUTRAL  
 Mode :  
 Model :  
 Power :

|    | Frequec<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Remark  |
|----|----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 0.168          | 42.78                 | 0.04                | 9.54                 | 52.36                     | 57.80                 | -5.44               | Average |
| 2  | 0.168          | 52.13                 | 0.04                | 9.54                 | 61.71                     | 65.08                 | -3.37               | QP      |
| 3  | 0.255          | 39.64                 | 0.04                | 9.53                 | 49.21                     | 53.28                 | -4.07               | Average |
| 4  | 0.255          | 48.45                 | 0.04                | 9.53                 | 58.02                     | 61.60                 | -3.58               | QP      |
| 5  | 0.352          | 34.90                 | 0.05                | 9.51                 | 44.46                     | 49.79                 | -5.33               | Average |
| 6  | 0.352          | 45.65                 | 0.05                | 9.51                 | 55.21                     | 58.91                 | -3.70               | QP      |
| 7  | 0.513          | 30.89                 | 0.05                | 9.58                 | 40.52                     | 46.00                 | -5.48               | Average |
| 8  | 0.513          | 42.90                 | 0.05                | 9.58                 | 52.53                     | 56.00                 | -3.47               | QP      |
| 9  | 1.147          | 25.02                 | 0.08                | 9.56                 | 34.66                     | 46.00                 | -11.34              | Average |
| 10 | 1.147          | 35.57                 | 0.08                | 9.56                 | 45.21                     | 56.00                 | -10.79              | QP      |
| 11 | 23.762         | 30.02                 | 0.42                | 9.96                 | 40.40                     | 50.00                 | -9.60               | Average |
| 12 | 23.762         | 37.48                 | 0.42                | 9.96                 | 47.86                     | 60.00                 | -12.14              | QP      |



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### 6.2 Conducted Emissions at Load Terminals and Additional Terminals

Test Requirement: EN IEC 55014-1: 2021  
 Test Method: CISPR 16-2-1:2014+A1:2017  
 Limit:  
 Disturbance current limits  
 0.15MHz – 0.5MHz 40dB(μA)-30dB(μA) quasi-peak  
 30dB(μA)-20dB(μA) average  
 0.5MHz – 30MHz 30dB(μA) quasi-peak, 20dB(μA) average  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15MHz to 30MHz

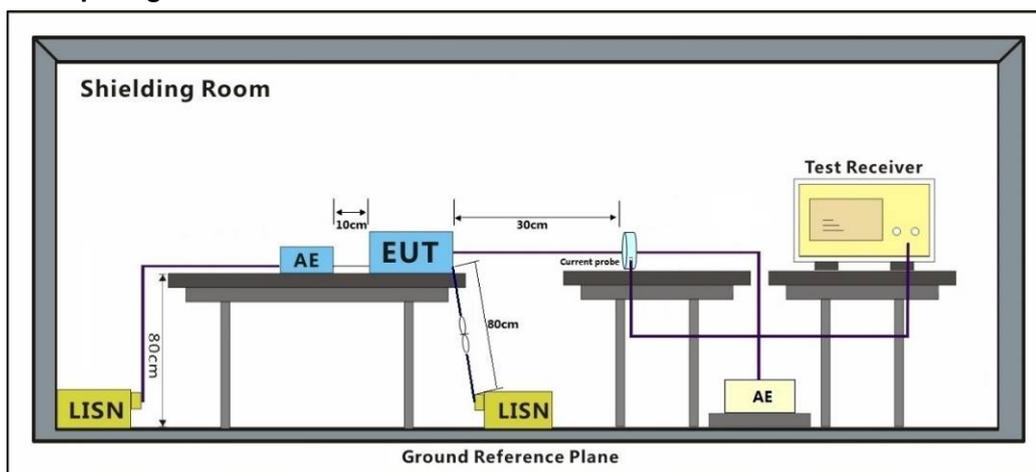
#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 24.5 °C Humidity: 56.1 % RH Atmospheric Pressure: 1013 mbar

#### 6.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Pre-scan              | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |

#### 6.2.3 Test Setup Diagram

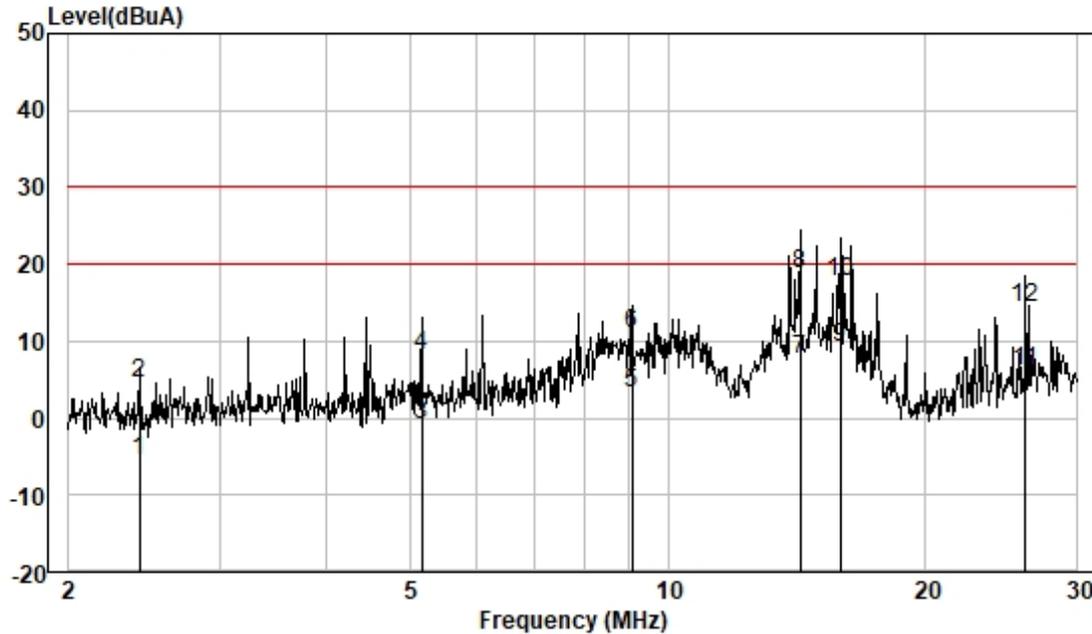


#### 6.2.4 Measurement Procedure and Data

Frequency Range: 150kHz to 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 + Probe Factor



Test Mode: 04



Mode :EUT 1  
Model :  
Power :

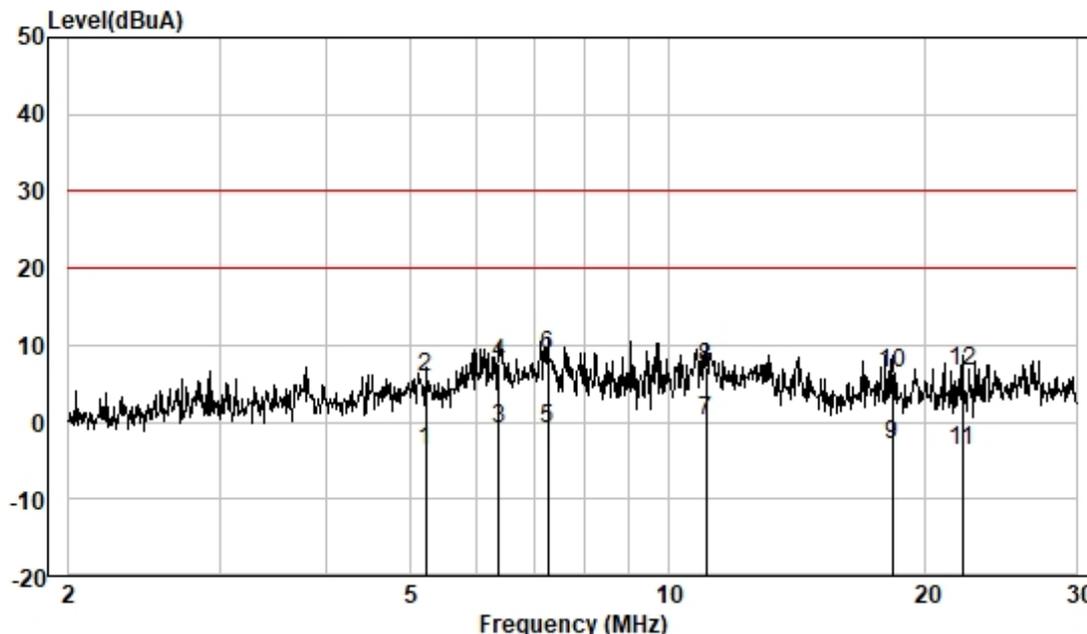
|    | Frequenc<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | Probe<br>Factor<br>dB | Measured<br>Level<br>dBuA | Limit<br>Line<br>dBuA | Over<br>Limit<br>dB | Remark  |
|----|-----------------|-----------------------|---------------------|-----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 2.424           | -5.99                 | 0.14                | 0.30                  | -5.55                     | 20.00                 | -25.55              | Average |
| 2  | 2.424           | 4.07                  | 0.14                | 0.30                  | 4.51                      | 30.00                 | -25.49              | QP      |
| 3  | 5.174           | -1.35                 | 0.20                | 0.30                  | -0.85                     | 20.00                 | -20.85              | Average |
| 4  | 5.174           | 7.56                  | 0.20                | 0.30                  | 8.06                      | 30.00                 | -21.94              | QP      |
| 5  | 9.088           | 2.83                  | 0.24                | 0.30                  | 3.37                      | 20.00                 | -16.63              | Average |
| 6  | 9.088           | 10.50                 | 0.24                | 0.30                  | 11.04                     | 30.00                 | -18.96              | QP      |
| 7  | 14.285          | 7.01                  | 0.32                | 0.30                  | 7.63                      | 20.00                 | -12.37              | Average |
| 8  | 14.285          | 18.22                 | 0.32                | 0.30                  | 18.84                     | 30.00                 | -11.16              | QP      |
| 9  | 15.876          | 8.66                  | 0.34                | 0.30                  | 9.30                      | 20.00                 | -10.70              | Average |
| 10 | 15.876          | 16.95                 | 0.34                | 0.30                  | 17.59                     | 30.00                 | -12.41              | QP      |
| 11 | 26.130          | 5.37                  | 0.43                | 0.23                  | 6.03                      | 20.00                 | -13.97              | Average |
| 12 | 26.130          | 13.79                 | 0.43                | 0.23                  | 14.45                     | 30.00                 | -15.55              | QP      |



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Test Mode: 04



Mode :EUT 2  
Model :  
Power :

|    | Freque <sub>nc</sub><br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | Probe<br>Factor<br>dBS | Measured<br>Level<br>dBuA | Limit<br>Line<br>dBuA | Over<br>Limit<br>dB | Remark  |
|----|-----------------------------|-----------------------|---------------------|------------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 5.230                       | -4.15                 | 0.20                | 0.30                   | -3.65                     | 20.00                 | -23.65              | Average |
| 2  | 5.230                       | 5.43                  | 0.20                | 0.30                   | 5.93                      | 30.00                 | -24.07              | QP      |
| 3  | 6.357                       | -1.27                 | 0.21                | 0.30                   | -0.76                     | 20.00                 | -20.76              | Average |
| 4  | 6.357                       | 7.17                  | 0.21                | 0.30                   | 7.68                      | 30.00                 | -22.32              | QP      |
| 5  | 7.259                       | -1.46                 | 0.22                | 0.30                   | -0.94                     | 20.00                 | -20.94              | Average |
| 6  | 7.259                       | 8.23                  | 0.22                | 0.30                   | 8.75                      | 30.00                 | -21.25              | QP      |
| 7  | 11.074                      | -0.50                 | 0.27                | 0.30                   | 0.07                      | 20.00                 | -19.93              | Average |
| 8  | 11.074                      | 6.54                  | 0.27                | 0.30                   | 7.11                      | 30.00                 | -22.89              | QP      |
| 9  | 18.277                      | -3.55                 | 0.37                | 0.30                   | -2.88                     | 20.00                 | -22.88              | Average |
| 10 | 18.277                      | 5.57                  | 0.37                | 0.30                   | 6.24                      | 30.00                 | -23.76              | QP      |
| 11 | 22.091                      | -4.45                 | 0.40                | 0.28                   | -3.77                     | 20.00                 | -23.77              | Average |
| 12 | 22.091                      | 5.95                  | 0.40                | 0.28                   | 6.63                      | 30.00                 | -23.37              | QP      |



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### 6.3 Disturbance Power

Test Requirement: EN IEC 55014-1: 2021  
 Test Method: CISPR 16-2-2:2010  
 Limit:  
 30MHz- 300MHz: 45dB(pW)-55dB(pW) quasi-peak, 35dB(pW)-45dB(pW) average  
 200MHz- 300MHz: 0dB(pW)-10dB(pW) quasi-peak (reduction limit)  
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

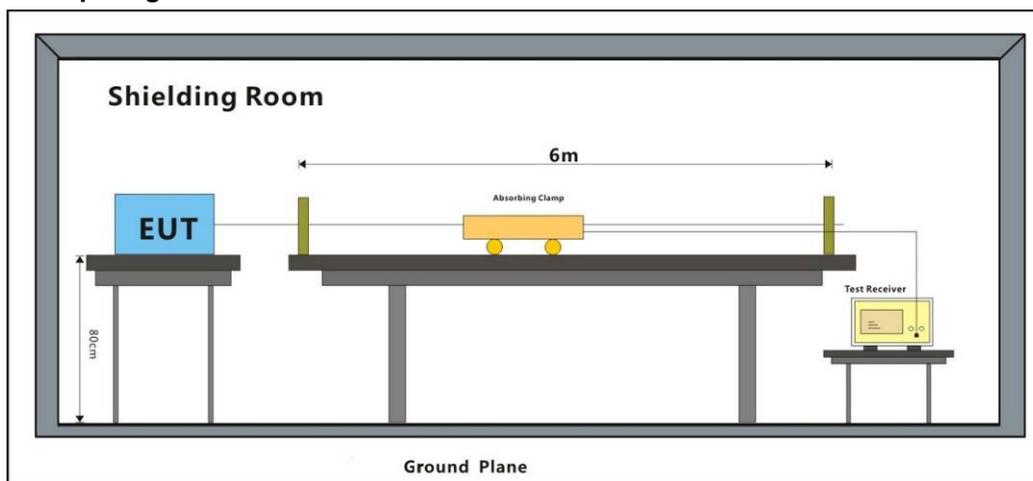
#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 24.5 °C Humidity: 56.1 % RH Atmospheric Pressure: 1013 mbar

#### 6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Pre-scan              | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |

#### 6.3.3 Test Setup Diagram



#### 6.3.4 Measurement Procedure and Data

Frequency Range: 30MHz to 300MHz

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.

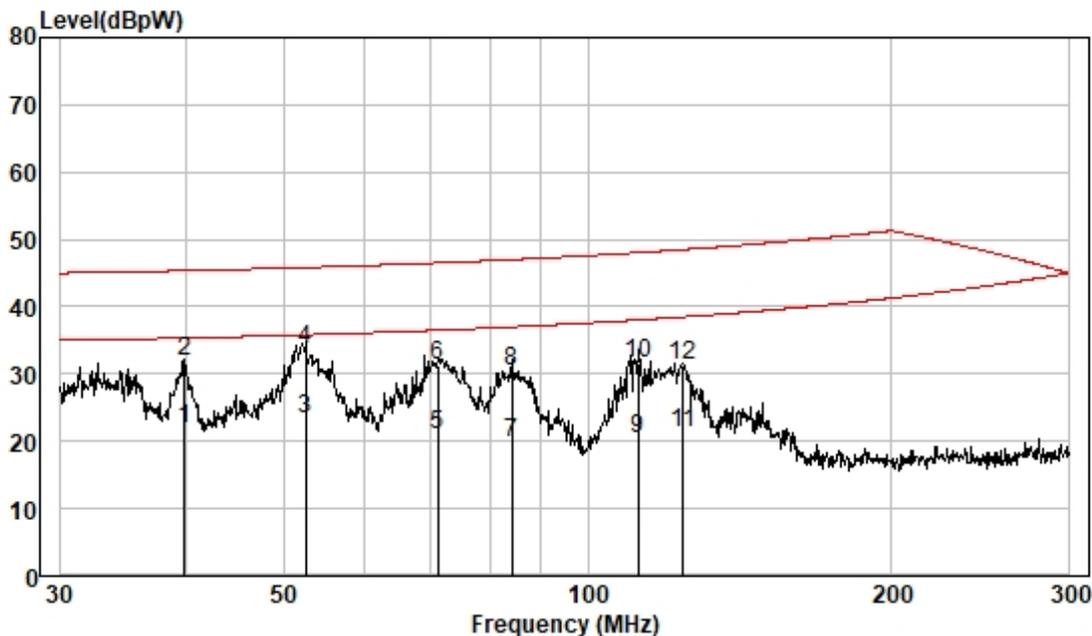
Measured Level = Read level + Cable Loss + Clamp Factor



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Test Mode: 04



Mode : AC  
Model :  
Power :

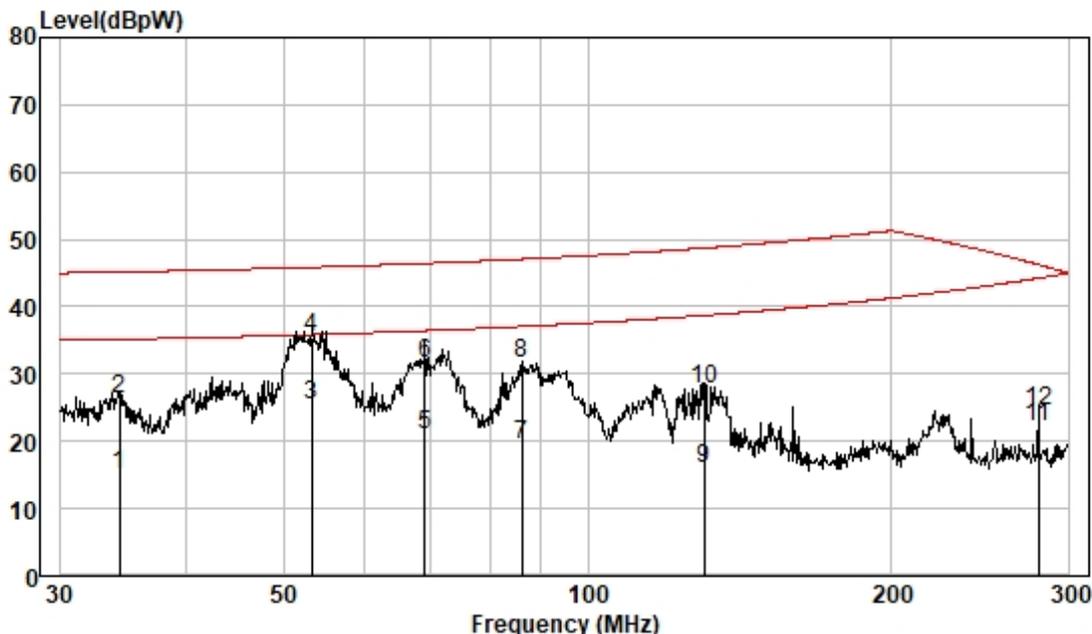
|    | Frequency<br>MHz | Read<br>level<br>dBuV | Cable<br>Loss<br>dB | Clamp<br>Factor<br>dB | Measured<br>level<br>dBpW | Limit<br>Line<br>dBpW | Over<br>limit<br>dB | Remark  |
|----|------------------|-----------------------|---------------------|-----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 39.822           | 15.04                 | 6.71                | 0.10                  | 21.85                     | 35.36                 | -13.51              | Average |
| 2  | 39.822           | 25.01                 | 6.71                | 0.10                  | 31.82                     | 45.36                 | -13.54              | QP      |
| 3  | 52.495           | 17.20                 | 6.82                | -0.62                 | 23.40                     | 35.83                 | -12.43              | Average |
| 4  | 52.495           | 27.39                 | 6.82                | -0.62                 | 33.59                     | 45.83                 | -12.24              | QP      |
| 5  | 70.978           | 14.99                 | 6.97                | -0.92                 | 21.04                     | 36.52                 | -15.48              | Average |
| 6  | 70.978           | 25.33                 | 6.97                | -0.92                 | 31.38                     | 46.52                 | -15.14              | QP      |
| 7  | 84.163           | 14.33                 | 7.06                | -1.56                 | 19.83                     | 37.01                 | -17.18              | Average |
| 8  | 84.163           | 24.87                 | 7.06                | -1.56                 | 30.37                     | 47.01                 | -16.64              | QP      |
| 9  | 112.233          | 15.18                 | 7.24                | -2.15                 | 20.27                     | 38.05                 | -17.78              | Average |
| 10 | 112.233          | 26.60                 | 7.24                | -2.15                 | 31.69                     | 48.05                 | -16.36              | QP      |
| 11 | 124.486          | 17.06                 | 7.32                | -3.20                 | 21.18                     | 38.50                 | -17.32              | Average |
| 12 | 124.486          | 27.30                 | 7.32                | -3.20                 | 31.42                     | 48.50                 | -17.08              | QP      |



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Test Mode: 04



Mode : LINK IN  
 Model :  
 Power :

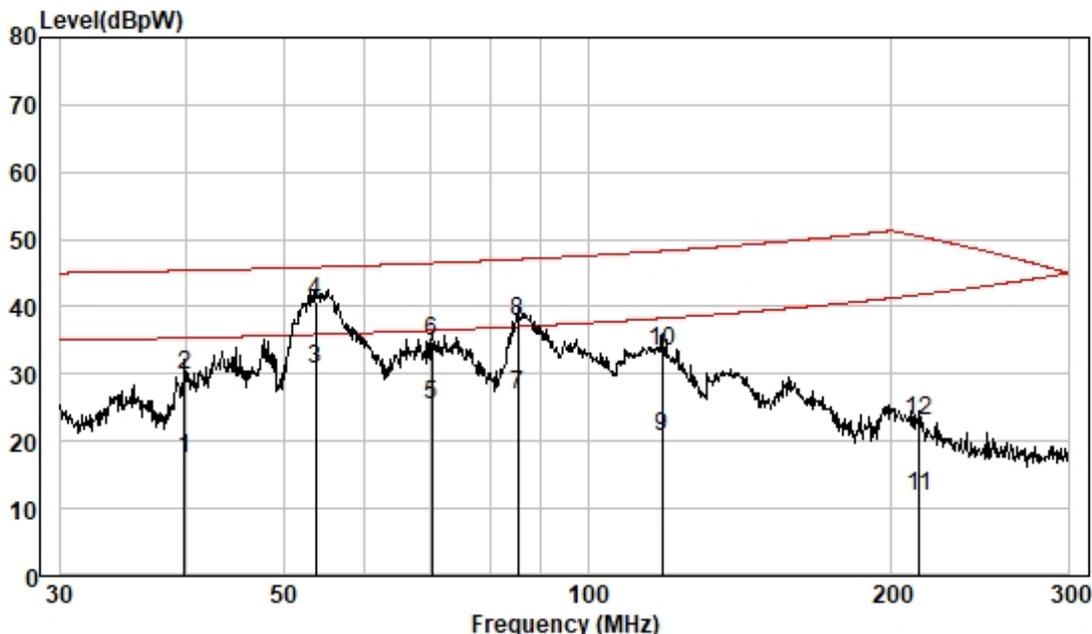
|    | Frequency<br>MHz | Read<br>level<br>dBuV | Cable<br>Loss<br>dB | Clamp<br>Factor<br>dB | Measured<br>level<br>dBpW | Limit<br>Line<br>dBpW | Over<br>limit<br>dB | Remark  |
|----|------------------|-----------------------|---------------------|-----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 34.365           | 7.55                  | 6.66                | 0.80                  | 15.01                     | 35.16                 | -20.15              | Average |
| 2  | 34.365           | 18.69                 | 6.66                | 0.80                  | 26.15                     | 45.16                 | -19.01              | QP      |
| 3  | 53.226           | 19.19                 | 6.83                | -0.58                 | 25.44                     | 35.86                 | -10.42              | Average |
| 4  | 53.226           | 29.05                 | 6.83                | -0.58                 | 35.30                     | 45.86                 | -10.56              | QP      |
| 5  | 69.043           | 15.10                 | 6.95                | -1.08                 | 20.97                     | 36.45                 | -15.48              | Average |
| 6  | 69.043           | 25.63                 | 6.95                | -1.08                 | 31.50                     | 46.45                 | -14.95              | QP      |
| 7  | 86.123           | 14.30                 | 7.08                | -1.76                 | 19.62                     | 37.08                 | -17.46              | Average |
| 8  | 86.123           | 26.23                 | 7.08                | -1.76                 | 31.55                     | 47.08                 | -15.53              | QP      |
| 9  | 130.353          | 12.43                 | 7.36                | -3.70                 | 16.09                     | 38.72                 | -22.63              | Average |
| 10 | 130.353          | 24.23                 | 7.36                | -3.70                 | 27.89                     | 48.72                 | -20.83              | QP      |
| 11 | 279.976          | 17.94                 | 8.03                | -3.90                 | 22.07                     | 44.26                 | -22.19              | Average |
| 12 | 279.976          | 20.34                 | 8.03                | -3.90                 | 24.47                     | 46.26                 | -21.79              | QP      |



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Test Mode: 04



Mode : LINK OUT  
 Model :  
 Power :

|    | Frequency<br>MHz | Read<br>level<br>dBuV | Cable<br>Loss<br>dB | Clamp<br>Factor<br>dB | Measured<br>level<br>dBpW | Limit<br>Line<br>dBpW | Over<br>limit<br>dB | Remark  |
|----|------------------|-----------------------|---------------------|-----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 39.822           | 10.68                 | 6.71                | 0.10                  | 17.49                     | 35.36                 | -17.87              | Average |
| 2  | 39.822           | 23.14                 | 6.71                | 0.10                  | 29.95                     | 45.36                 | -15.41              | QP      |
| 3  | 53.718           | 24.41                 | 6.83                | -0.58                 | 30.66                     | 35.88                 | -5.22               | Average |
| 4  | 53.718           | 34.36                 | 6.83                | -0.58                 | 40.61                     | 45.88                 | -5.27               | QP      |
| 5  | 70.165           | 19.45                 | 6.96                | -1.00                 | 25.41                     | 36.49                 | -11.08              | Average |
| 6  | 70.165           | 28.90                 | 6.96                | -1.00                 | 34.86                     | 46.49                 | -11.63              | QP      |
| 7  | 85.334           | 21.43                 | 7.07                | -1.60                 | 26.90                     | 37.05                 | -10.15              | Average |
| 8  | 85.334           | 32.31                 | 7.07                | -1.60                 | 37.78                     | 47.05                 | -9.27               | QP      |
| 9  | 118.610          | 15.86                 | 7.28                | -2.52                 | 20.62                     | 38.28                 | -17.66              | Average |
| 10 | 118.610          | 28.64                 | 7.28                | -2.52                 | 33.40                     | 48.28                 | -14.88              | QP      |
| 11 | 213.364          | 7.91                  | 7.75                | -3.88                 | 11.78                     | 41.79                 | -30.01              | Average |
| 12 | 213.364          | 19.24                 | 7.75                | -3.88                 | 23.11                     | 50.46                 | -27.35              | QP      |



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### 6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019+A1:2021

Test Method: EN IEC 61000-3-2: 2019+A1:2021

#### 6.4.1 E.U.T. Operation

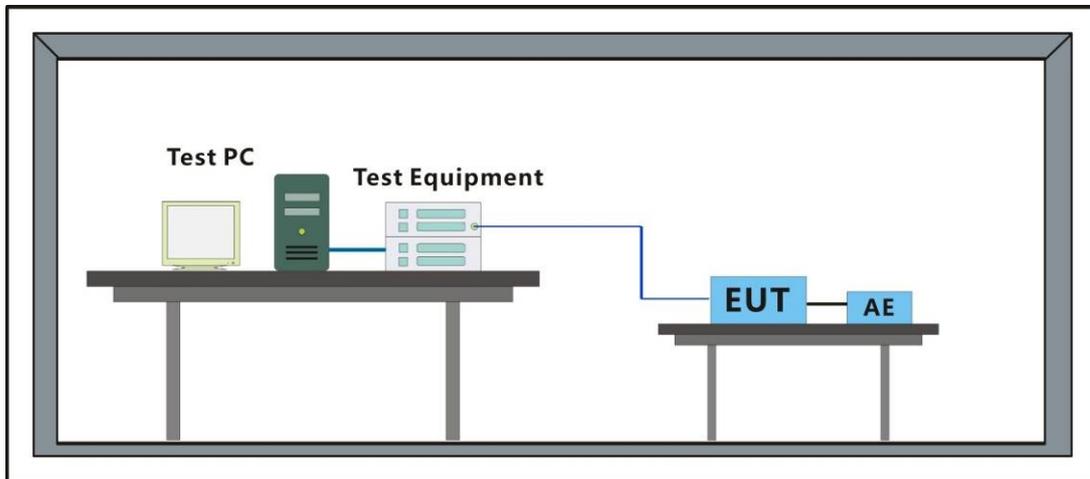
Operating Environment:

Temperature: 22.3 °C Humidity: 53.8 % RH Atmospheric Pressure: 1013 mbar

#### 6.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Pre-scan              | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |

#### 6.4.3 Test Setup Diagram



**6.4.4 Measurement Procedure and Data**

Frequency Range: 100Hz to 2kHz

Test Mode: 05

**Standard Specific Results for IEC 61000-3-2 (Edition 5.1)**

Standard Group: Industry  
 Standard Name: IEC 61000-3-2 (Edition 5.1)  
 Limits for harmonic current emissions (equipment input current < 16 A per phase)  
 Device Under Test: **PASS**  
 Power Source: **PASS**  
 Connection Type: L - N  
 Main Line: 230 V, 50 Hz  
 Classification: Class A  
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)  
 Test Duration: **2 min 30 s**

|   |             |
|---|-------------|
| <b>Check Harmonics 2..40</b>                    |             |
| <i>First detected harmonic order &gt; 150 %</i> |             |
| Line 1:   | <b>None</b> |
| <i>Harmonics orders &gt; 150 %</i>              |             |
| Line 1:   | <b>None</b> |
| <i>Harmonics orders with average &gt; 100 %</i> |             |
| Line 1:   | <b>None</b> |

|                             |             |
|-----------------------------|-------------|
| <b>Measured values</b>      |             |
| <i>Fundamental Current</i>  |             |
| Line 1:                     | 2.126 A     |
| <i>Active input Power</i>   |             |
| Line 1:                     | 480.953 W * |
| <i>Circuit power factor</i> |             |
| Line 1:                     | 0.948 *     |

\* Absolute value.

|   |             |
|---|-------------|
| <b>Prerequisite for simplified method</b>                   |             |
| <i>First time window with THD(I) &gt; 15 %</i>              |             |
| Line 1:   | <b>None</b> |
| <i>Time window with max THD(I) &gt; 15 %</i>                |             |
| Line 1:   | <b>None</b> |
| <i>Current emission below 60 % of the applicable limits</i> |             |
| Line 1:   | <b>No</b>   |
| <i>Active Input Power</i>                                   |             |
| Line 1:   | 481 W *     |

\* Absolute value.



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**Current Test Result**

| Average and Maximum harmonic current results |          |              |           |        |          |              |           |        |                 |
|--|----------|--------------|-----------|--------|----------|--------------|-----------|--------|-----------------|
| Hn   | Average  |              |           |        | Maximum  |              |           |        | Harmonic Result |
|  | Ieff [A] | of Limit [%] | Limit [A] | Result | Ieff [A] | of Limit [%] | Limit [A] | Result |                 |
| 1  | 2.112    |              |           |        | 2.126    |              |           |        |                 |
| 2  | 0.022    | 2.062        | 1.080     | PASS   | 0.023    | 1.421        | 1.620     | PASS   | PASS            |
| 3  | 0.493    | 21.439       | 2.300     | PASS   | 0.498    | 14.423       | 3.450     | PASS   | PASS            |
| 4  | 0.013    | 3.042        | 0.430     | PASS   | 0.013    | 2.087        | 0.645     | PASS   | PASS            |
| 5  | 0.310    | 27.218       | 1.140     | PASS   | 0.312    | 18.252       | 1.710     | PASS   | PASS            |
| 6  | 0.010    | 3.455        | 0.300     | n/a    | 0.011    | 2.369        | 0.450     | n/a    | PASS            |
| 7  | 0.077    | 9.970        | 0.770     | PASS   | 0.078    | 6.747        | 1.155     | PASS   | PASS            |
| 8  | 0.010    | 4.522        | 0.230     | n/a    | 0.011    | 3.106        | 0.345     | n/a    | PASS            |
| 9  | 0.062    | 15.458       | 0.400     | PASS   | 0.063    | 10.466       | 0.600     | PASS   | PASS            |
| 10   | 0.008    | 4.449        | 0.184     | n/a    | 0.008    | 3.078        | 0.276     | n/a    | PASS            |
| 11   | 0.105    | 31.676       | 0.330     | PASS   | 0.107    | 21.673       | 0.495     | PASS   | PASS            |
| 12   | 0.007    | 4.773        | 0.153     | n/a    | 0.008    | 3.307        | 0.230     | n/a    | PASS            |
| 13   | 0.087    | 41.448       | 0.210     | PASS   | 0.089    | 28.254       | 0.315     | PASS   | PASS            |
| 14   | 0.006    | 4.219        | 0.131     | n/a    | 0.006    | 2.977        | 0.197     | n/a    | PASS            |
| 15   | 0.064    | 42.964       | 0.150     | PASS   | 0.069    | 30.648       | 0.225     | PASS   | PASS            |
| 16   | 0.004    | 3.689        | 0.115     | n/a    | 0.005    | 2.651        | 0.173     | n/a    | PASS            |
| 17   | 0.031    | 23.463       | 0.132     | PASS   | 0.036    | 18.139       | 0.199     | PASS   | PASS            |
| 18   | 0.003    | 3.185        | 0.102     | n/a    | 0.004    | 2.625        | 0.153     | n/a    | PASS            |
| 19   | 0.014    | 11.973       | 0.118     | PASS   | 0.018    | 9.939        | 0.178     | PASS   | PASS            |
| 20   | 0.003    | 2.831        | 0.092     | n/a    | 0.003    | 2.202        | 0.138     | n/a    | PASS            |
| 21   | 0.008    | 7.557        | 0.107     | n/a    | 0.011    | 6.724        | 0.161     | n/a    | PASS            |
| 22   | 0.002    | 2.662        | 0.084     | n/a    | 0.003    | 2.210        | 0.125     | n/a    | PASS            |
| 23   | 0.012    | 12.554       | 0.098     | n/a    | 0.016    | 10.579       | 0.147     | PASS   | PASS            |
| 24   | 0.002    | 2.278        | 0.077     | n/a    | 0.002    | 1.825        | 0.115     | n/a    | PASS            |
| 25   | 0.015    | 16.591       | 0.090     | PASS   | 0.017    | 12.759       | 0.135     | PASS   | PASS            |
| 26   | 0.002    | 2.317        | 0.071     | n/a    | 0.002    | 1.760        | 0.106     | n/a    | PASS            |
| 27   | 0.006    | 7.061        | 0.083     | n/a    | 0.006    | 5.045        | 0.125     | n/a    | PASS            |
| 28   | 0.001    | 2.172        | 0.066     | n/a    | 0.002    | 1.613        | 0.099     | n/a    | PASS            |
| 29   | 0.009    | 11.517       | 0.078     | n/a    | 0.009    | 8.057        | 0.116     | n/a    | PASS            |
| 30   | 0.001    | 2.099        | 0.061     | n/a    | 0.001    | 1.582        | 0.092     | n/a    | PASS            |
| 31   | 0.007    | 9.753        | 0.073     | n/a    | 0.007    | 6.872        | 0.109     | n/a    | PASS            |
| 32   | 0.001    | 2.112        | 0.058     | n/a    | 0.001    | 1.557        | 0.086     | n/a    | PASS            |
| 33   | 0.009    | 12.716       | 0.068     | n/a    | 0.009    | 8.952        | 0.102     | n/a    | PASS            |
| 34   | 0.001    | 2.086        | 0.054     | n/a    | 0.001    | 1.552        | 0.081     | n/a    | PASS            |
| 35   | 0.005    | 7.854        | 0.064     | n/a    | 0.006    | 6.090        | 0.096     | n/a    | PASS            |
| 36   | 0.001    | 2.220        | 0.051     | n/a    | 0.001    | 1.638        | 0.077     | n/a    | PASS            |
| 37   | 0.004    | 6.901        | 0.061     | n/a    | 0.005    | 5.697        | 0.091     | n/a    | PASS            |
| 38   | 0.001    | 2.098        | 0.048     | n/a    | 0.001    | 1.593        | 0.073     | n/a    | PASS            |
| 39   | 0.003    | 5.804        | 0.058     | n/a    | 0.004    | 4.726        | 0.087     | n/a    | PASS            |
| 40   | 0.001    | 2.270        | 0.046     | n/a    | 0.001    | 1.709        | 0.069     | n/a    | PASS            |

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

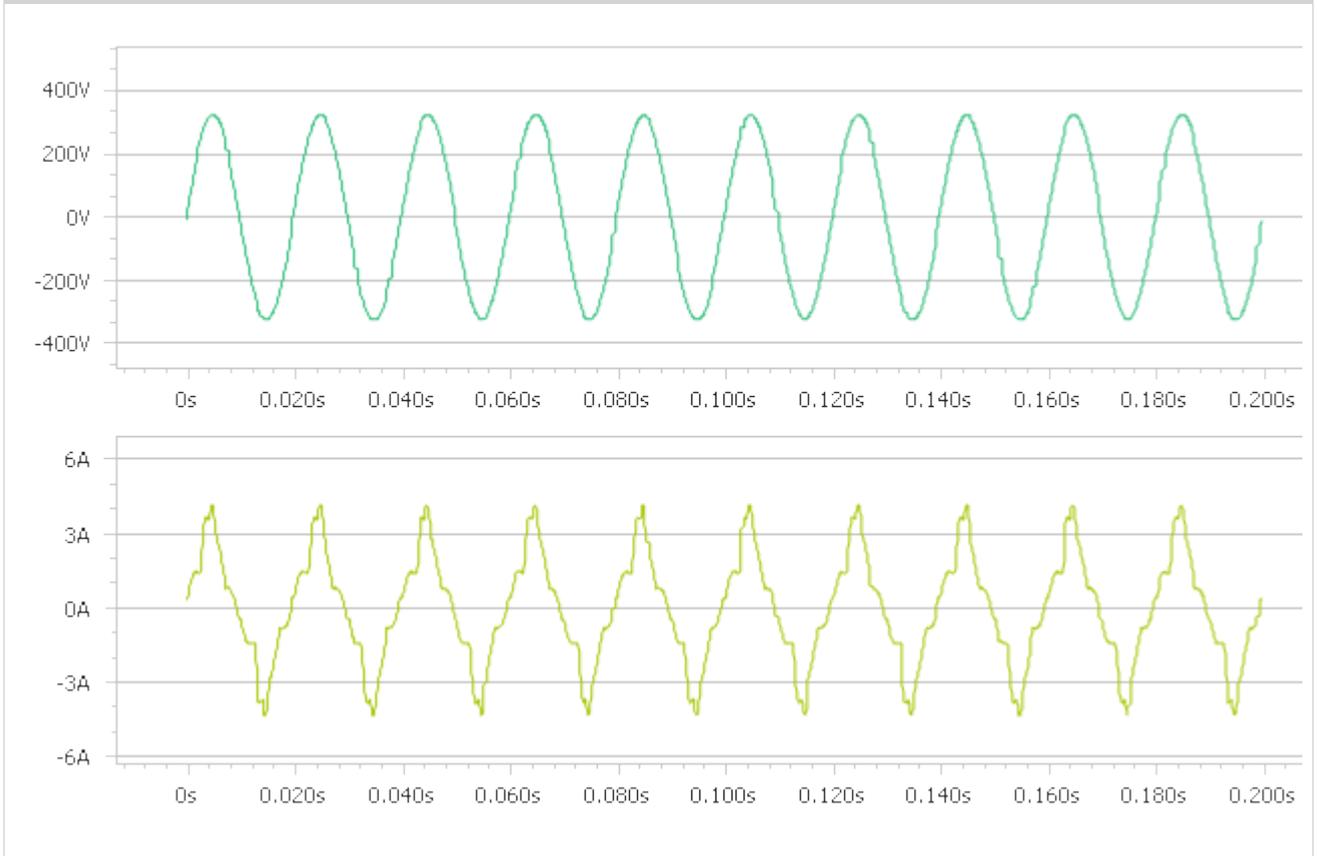


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### Time Window 1

#### Time Domain of Time Window 1



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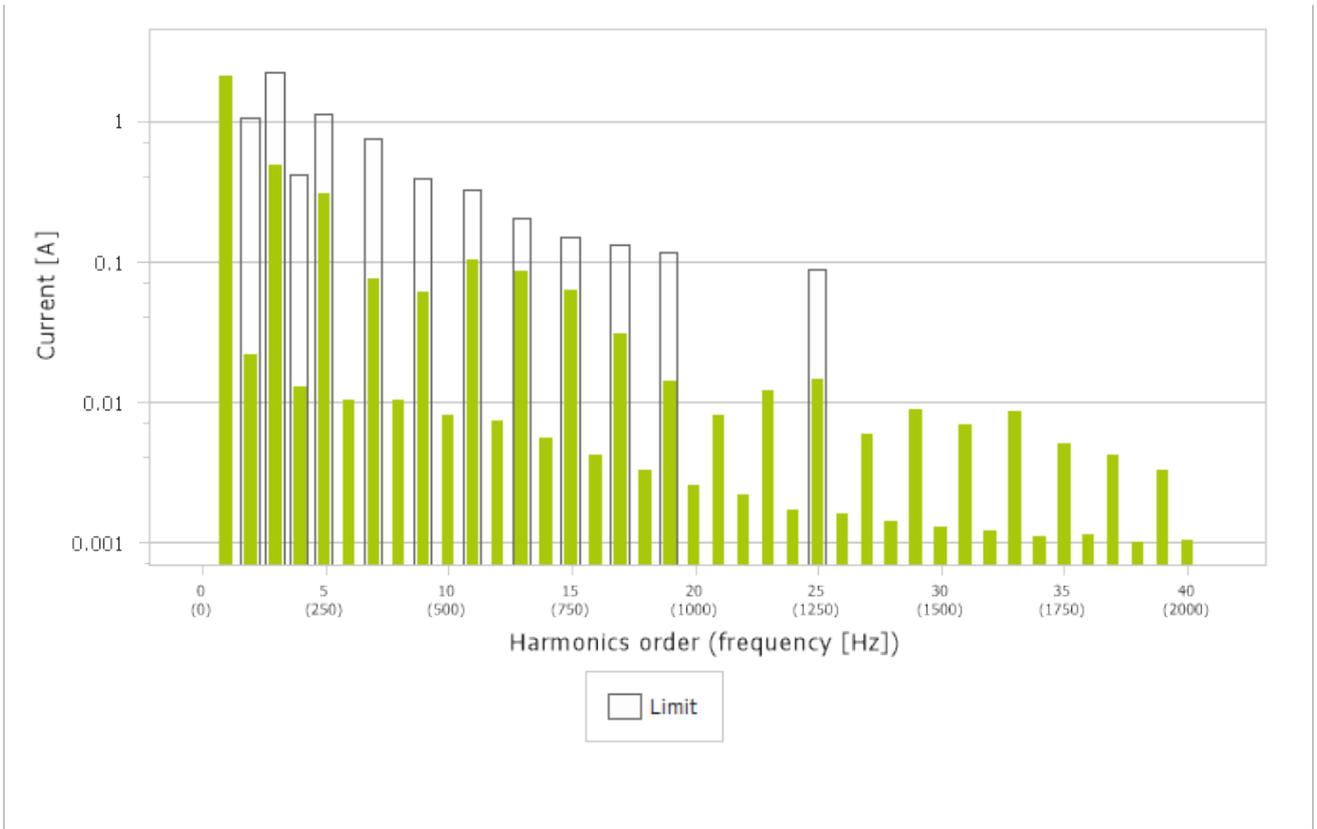
### Maximum / Average Values

|   |  | Line 1    |
|---|--|-----------|
| <i>Maximum Values</i>                                   |  |           |
| Frequency   |  | 50 Hz     |
| Voltage RMS   |  | 229.3 V   |
| Current RMS   |  | 2.220 A   |
| Peak Current  |  | 4.307 A   |
| Fundamental Current                                     |  | 2.149 A   |
| Current Crest Factor                                    |  | 1.953     |
| Active Power P  |  | 486.1 W   |
| Power Factor  |  | 0.9479    |
| Total Harmonic Current (THC)                            |  | 0.6148 A  |
| Instantaneous Partial Odd Harmonic Current (Inst. POHC) |  | 0.02891 A |
| Total Harmonic Distortion Current (THDC)                |  | 0.2892    |
| <i>Average Values</i>                                   |  |           |
| Total Harmonic Current (THC)                            |  | 0.6122 A  |
| Instantaneous Partial Odd Harmonic Current (Inst. POHC) |  | 0.02729 A |
| Total Harmonic Distortion Current (THDC)                |  | 0.2880    |
| <b>Average Harmonics</b>                                |  |           |
| Average Harmonics (Line 1)                              |  |           |



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### 6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3: 2013+ A1:2019+A2:2021

Test Method: EN 61000-3-3: 2013+ A1:2019+A2:2021

#### 6.5.1 E.U.T. Operation

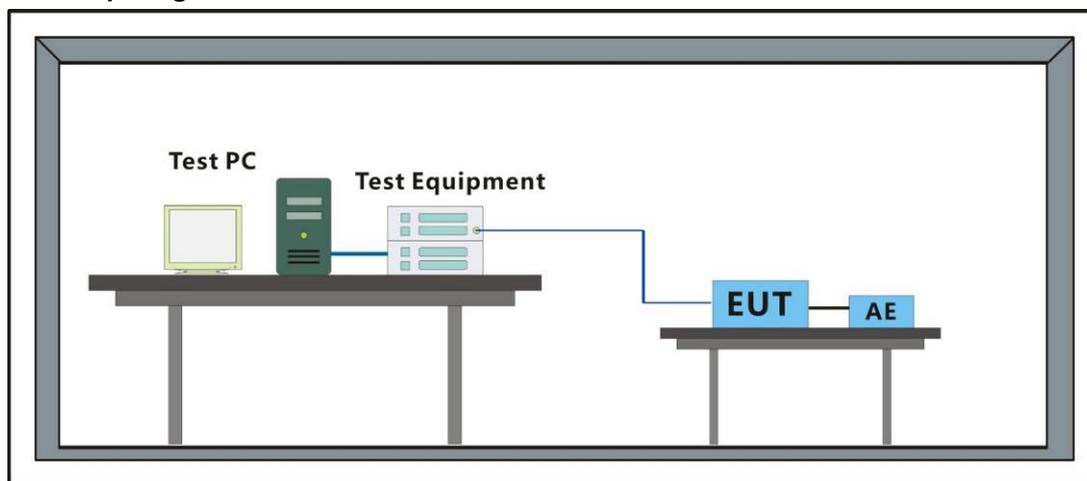
Operating Environment:

Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1013 mbar

#### 6.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Pre-scan              | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |

#### 6.5.3 Test Setup Diagram



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**6.5.4 Measurement Procedure and Data**

Test Mode: 05

**Flicker Results**

**Standard Specific Results for IEC 61000-3-3 (Edition 3.2)**

Standard Group: Industry

Standard Name: IEC 61000-3-3 (Edition 3.2)  
 Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

Test Condition: Tumbler dryers

Analysis Status: **PASS**

| Flicker Measurements Settings |             |
|-------------------------------|-------------|
| Main Line:                    | 230V, 50Hz  |
| Flicker Meter:                | 230V / 50Hz |
| Flicker Impedance:            | Zref        |
| Observation Time:             | 12 × 10 min |
| Measurements:                 | 12          |

| Flicker Measurements |                 |                     |                    |                      |                      |
|----------------------|-----------------|---------------------|--------------------|----------------------|----------------------|
|                      | P <sub>It</sub> | Max P <sub>st</sub> | Max d <sub>c</sub> | Max d <sub>max</sub> | Max T <sub>max</sub> |
| Line 1:              | 0.11            | 0.11                | 0.354              | 0.466                | 0                    |
| Limits:              | 0.65            | 1                   | 3.3                | 6                    | 0.5                  |
| Results:             | PASS            | PASS                | PASS               | PASS                 | PASS                 |



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| Flicker Individual Measurements |                     |       |        |                    |       |        |                      |       |        |                      |       |        |
|---------------------------------|---------------------|-------|--------|--------------------|-------|--------|----------------------|-------|--------|----------------------|-------|--------|
| Measurement                     | P <sub>st</sub> [ ] |       |        | d <sub>c</sub> [%] |       |        | d <sub>max</sub> [%] |       |        | T <sub>max</sub> [s] |       |        |
|                                 | Value               | Limit | Result | Value              | Limit | Result | Value                | Limit | Result | Value                | Limit | Result |
| #1                              | 0.11                | 1.00  | PASS   | 0.08               | 3.30  | PASS   | 0.37                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #2                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #3                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #4                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #5                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #6                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #7                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #8                              | 0.11                | 1.00  | PASS   | 0.35               | 3.30  | PASS   | 0.47                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #9                              | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #10                             | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.16                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #11                             | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |
| #12                             | 0.11                | 1.00  | PASS   | 0.00               | 3.30  | PASS   | 0.17                 | 6.00  | PASS   | 0.00                 | 0.50  | PASS   |



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### Pst Data



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**6.6 Discontinuous Disturbance (150kHz-30MHz)**

Test Requirement: EN IEC 55014-1: 2021

Test Method: EN IEC 55014-1: 2021

Limit:

| Provision | Click Rate (N) |                              |  |
|-----------|----------------|------------------------------|--|
|           | 1              | All clicks ≤ 20 ms           | 90 % click ≤ 10 ms                       |
| 2         | N < 0,2        | $L_q^b = L^a + 44$           | Clicks <sup>c</sup> ≤ 25% exceed $L_q^b$ |
| 3         | 30 > N ≥ 0,2   | $L_q^b = L^a + 20 \lg(30/N)$ | Clicks <sup>c</sup> ≤ 25% exceed $L_q^b$ |

<sup>a</sup> The limits L of Conducted Emissions apply also to discontinuous disturbances from all equipment which produce:

- 1) disturbances other than clicks, or
- 2) clicks with a click rate N equal to or greater than 30

<sup>b</sup> The click limit  $L_q$  is calculated by increasing the relevant quasi-peak limit L for continuous disturbances by certain value.

The click limit applies to the disturbance assessed according to the upper quartile method

<sup>c</sup> a quarter of the number of the clicks registered during the observation time T is allowed to exceed the click limit  $L_q$

**6.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 22.3 °C      Humidity: 53.3 % RH      Atmospheric Pressure: 1013 mbar

**6.6.2 Test Mode Description**

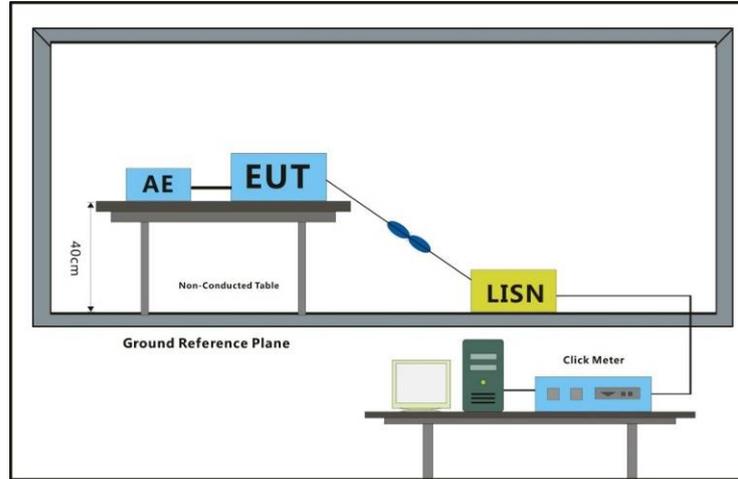
| Pre-scan / Mode | Code | Description   |
|-----------------|------|---|
| Final test      | 04   | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test      | 05   | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |



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### 6.6.3 Test Setup Diagram



### 6.6.4 Measurement Procedure and Data

Frequency Range: 150kHz to 30MHz

Test Mode: 05

| Lq Calculation |            |        |        |        |                   |                     |              |           |        |        |
|----------------|------------|--------|--------|--------|-------------------|---------------------|--------------|-----------|--------|--------|
| Frequency MHz  | Limit dBuV | <=10ms | <=20ms | <=0.2s | From Exception E4 | Other than click ms | Total Clicks | Time min. | N rate | +Lq dB |
| 0.15           | 66.0       | 0      | 0      | 0      | 0                 | 0                   | 0            | 120.0     | 0.0    | PASS   |
| 0.50           | 56.0       | 0      | 0      | 0      | 0                 | 0                   | 0            | 120.0     | 0.0    | PASS   |
| 1.40           | 56.0       | 0      | 0      | 0      | 0                 | 0                   | 0            | 120.0     | 0.0    | PASS   |
| 30.00          | 60.0       | 0      | 0      | 0      | 0                 | 0                   | 0            | 120.0     | 0.0    | PASS   |



## 7 Immunity Test Results

### Performance Criteria Description

- Criterion A:** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B:** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. 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, then either of these may be derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C:** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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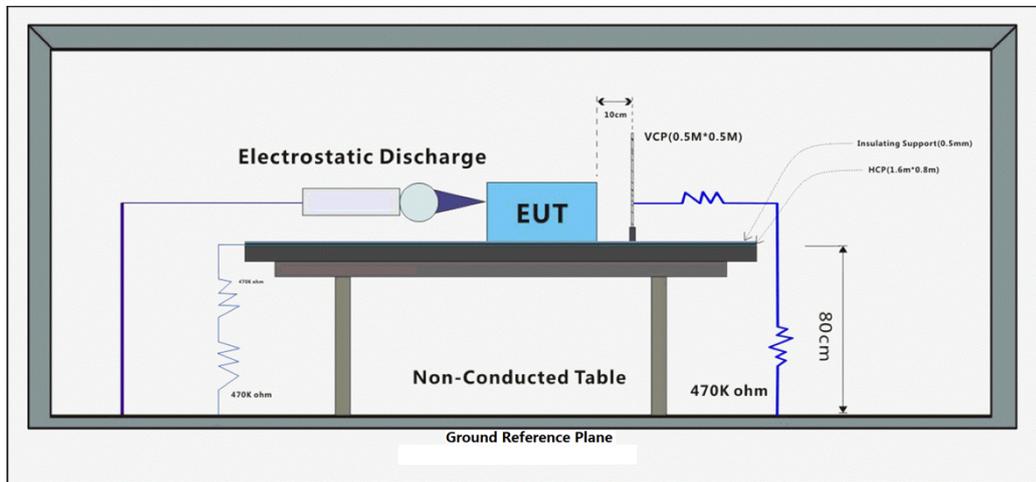
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### 7.1 Electrostatic Discharge

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-2:2009

#### 7.1.1 Test Setup Diagram



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

Operating Environment:

Temperature: 22.3 °C Humidity: 53.4 % RH Atmospheric Pressure: 1013 mbar

#### 7.1.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test            | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test            | 06        | Test the EUT in idle mode.  |



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**7.1.4 Test Condition and Results**

Performance Criterion: B

Discharge Impedance: 330 Ω / 150 pF

Discharge Voltage: Air Discharge: 8 kV; Contact Discharge:4 kV; VCP/HCP: 4 kV.

Polarity: Positive & Negative

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       | 8          | +        | 1          | A                     |
| Air Discharge       | 8          | -        | 1          | A                     |
| Contact Discharge   | 4          | +        | 2          | A                     |
| Contact Discharge   | 4          | -        | 2          | A                     |
| Horizontal Coupling | 4          | +        | 3          | N/A                   |
| Horizontal Coupling | 4          | -        | 3          | N/A                   |
| Vertical Coupling   | 4          | +        | 3          | A                     |
| Vertical Coupling   | 4          | -        | 3          | A                     |

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



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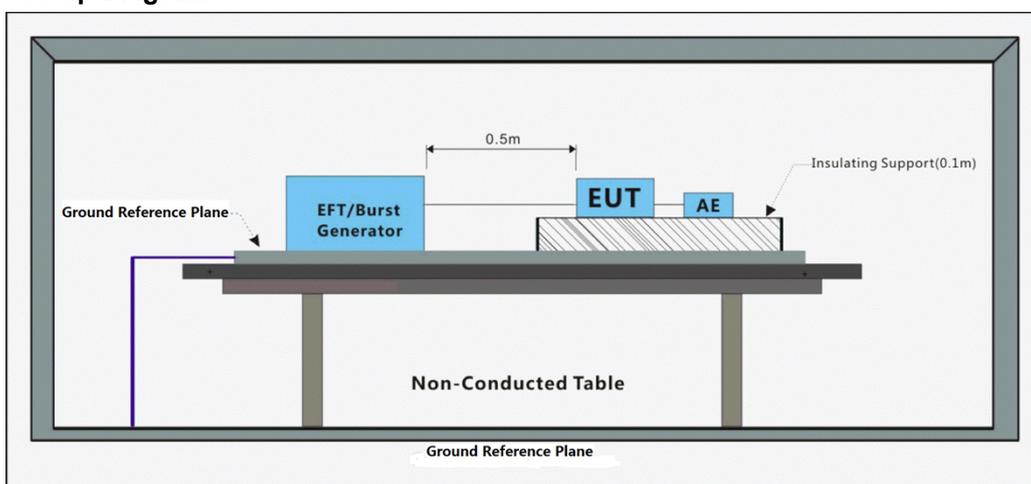
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### 7.2 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-4:2012

#### 7.2.1 Test Setup Diagram



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

Operating Environment:

Temperature: 22.4 °C      Humidity: 71.5 % RH      Atmospheric Pressure: 1013 mbar

#### 7.2.3 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description   |
|--------------------------|--------------|---|
| Final test               | 04           | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test               | 05           | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test               | 06           | Test the EUT in idle mode.  |



**7.2.4 Test Condition and Results**

Performance Criterion: B  
 Repetition Frequency: 5kHz  
 Burst Period: 300ms  
 Test Duration: 2 minute per level & polarity  
 Test Level: 1.0kV  
 Polarity: Positive & Negative

| Port          | Level (kV) | Polarity | Repetition Frequency: | CDN/Clamp | Result / Observations |
|---------------|------------|----------|-----------------------|-----------|-----------------------|
| AC power port | 1          | +        | 5kHz                  | CDN       | A                     |
| AC power port | 1          | -        | 5kHz                  | CDN       | A                     |

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



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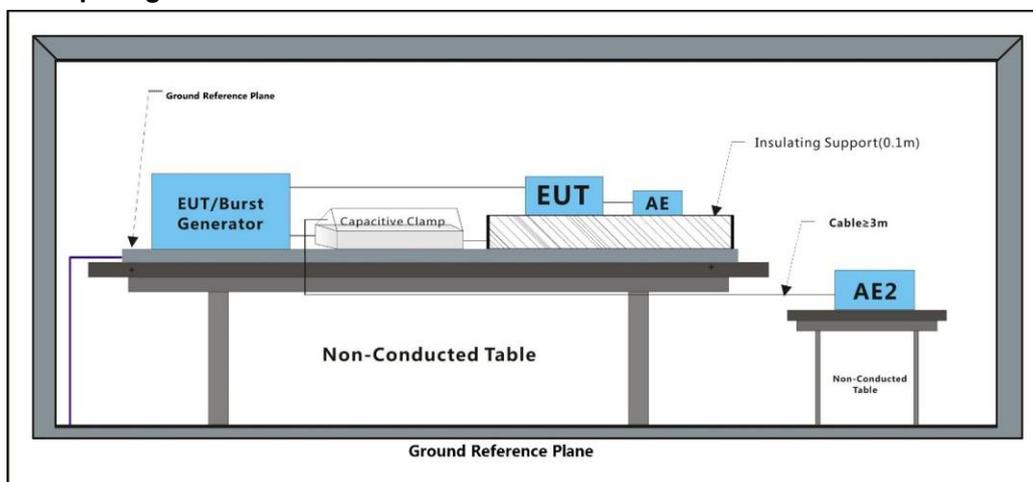
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### 7.3 Electrical Fast Transients Burst at Signal Port

Test Requirement: EN IEC 55014-2: 2021

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: 71.5 % RH

Atmospheric Pressure: 1013 mbar

#### 7.3.3 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description   |
|--------------------------|--------------|---|
| Final test               | 04           | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test               | 05           | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test               | 06           | Test the EUT in idle mode.  |



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**7.3.4 Test Condition and Results**

Performance Criterion: B  
 Repetition Frequency: 5kHz  
 Burst Period: 300ms  
 Test Duration: 2 minute per level & polarity  
 Test Level: 0.5kV  
 Polarity: Positive & Negative

| Port   | Level (kV) | Polarity | Repetition Frequency: | CDN/Clamp | Result / Observations |
|--------|------------|----------|-----------------------|-----------|-----------------------|
| Signal | 0.5        | +        | 5kHz                  | Clamp     | A                     |
| Signal | 0.5        | -        | 5kHz                  | Clamp     | A                     |

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



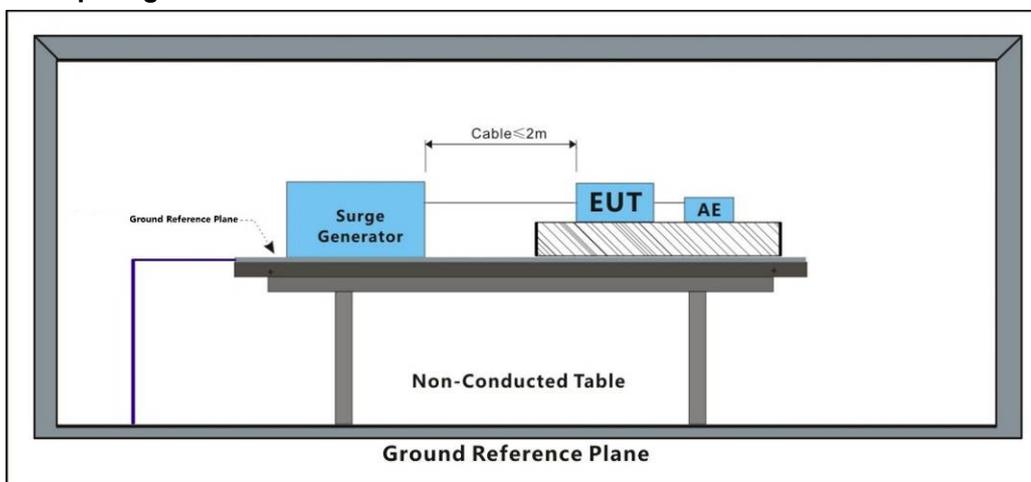
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### 7.4 Surge at AC Mains Power Port

Test Requirement: EN IEC 55014-2: 2021  
 Test Method: EN 61000-4-5:2014+A1:2017

#### 7.4.1 Test Setup Diagram



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

Operating Environment:  
 Temperature: 22.4 °C      Humidity: 71.5 % RH      Atmospheric Pressure: 1013 mbar

#### 7.4.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test            | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test            | 06        | Test the EUT in idle mode.  |



**7.4.4 Test Condition and Results**

Performance Criterion: B

Interval: 60s between each surge

Test Level: ±1kV Live to Neutral; ±2kV Live, Neutral to Earth

Polarity: Positive & Negative

Generator source impedance: 2Ω

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

Trigger Mode: Internal

No. of surges: 5 positive at 90°, 5 negative at 270°.

| Test Line | Level (kV) | Polarity | Phase (deg) | Result / Observations |
|-----------|------------|----------|-------------|-----------------------|
| L-N       | 1          | +        | 90°         | A                     |
| L-N       | 1          | -        | 270°        | A                     |
| L-PE      | 2          | +        | 90°         | A                     |
| L-PE      | 2          | -        | 270°        | A                     |
| N-PE      | 2          | +        | 90°         | A                     |
| N-PE      | 2          | -        | 270°        | A                     |

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



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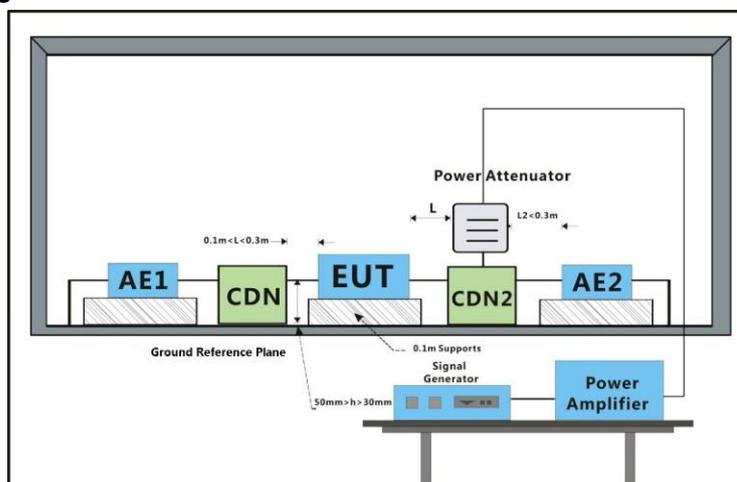
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### 7.5 Conducted Immunity at AC Mains Power Port (150kHz-230MHz)

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-6: 2014

#### 7.5.1 Test Setup Diagram



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

Operating Environment:

Temperature: 22.4 °C Humidity: 71.5 % RH Atmospheric Pressure: 1013 mbar

#### 7.5.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test            | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test            | 06        | Test the EUT in idle mode.  |

#### 7.5.4 Test Condition and Results

Performance Criterion: A

Step Size: 1%

Frequency Range: 0.15MHz to 230MHz

Modulation: 80%, 1kHz Amplitude Modulation

| Cable Port    | Level (Vrms) | CDN/Clamp | Dwell time | Result / Observations |
|---------------|--------------|-----------|------------|-----------------------|
| AC power port | 3            | CDN       | 2s         | A                     |

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

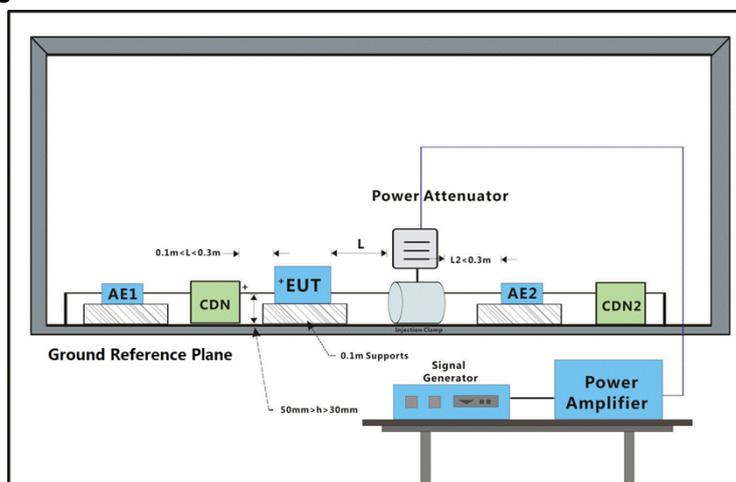


### 7.6 Conducted Immunity at Signal Port (150kHz-230MHz)

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-6: 2014

#### 7.6.1 Test Setup Diagram



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

Operating Environment:

Temperature: 22.4 °C

Humidity: 71.5 % RH

Atmospheric Pressure: 1013 mbar

#### 7.6.3 Test Mode Description

| Pre-scan / Mode | Code | Description   |
|-----------------|------|---|
| Final test      | 04   | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test      | 05   | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test      | 06   | Test the EUT in idle mode.  |

#### 7.6.4 Test Condition and Results

Performance Criterion: A

Step Size: 1%

Frequency Range: 0.15MHz to 230MHz

Modulation: 80%, 1kHz Amplitude Modulation

| Port        | Level (Vrms) | CDN/Clamp | Dwell time | Result / Observations |
|-------------|--------------|-----------|------------|-----------------------|
| Signal Port | 1            | Clamp     | 2s         | A                     |

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



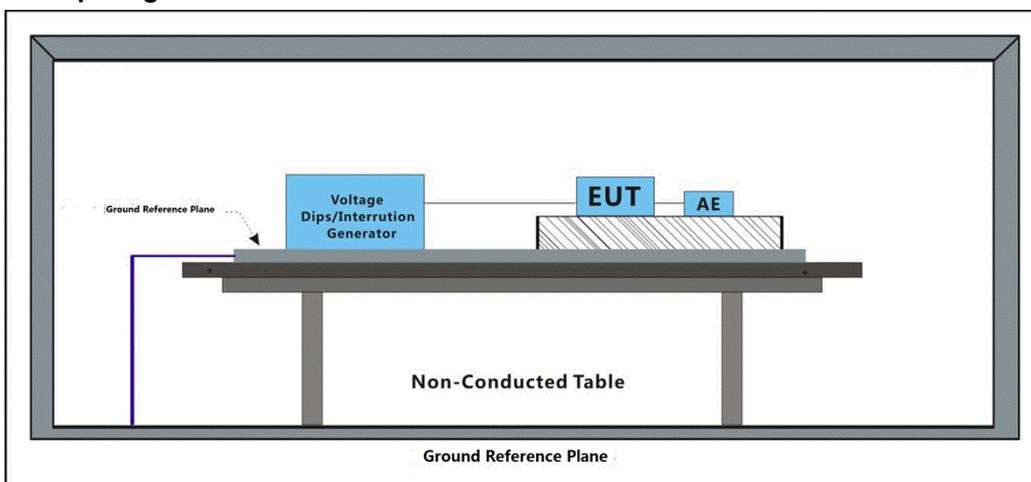
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### 7.7 Voltage Dips and Interruptions

Test Requirement: EN IEC 55014-2: 2021  
 Test Method: EN IEC 61000-4-11: 2020

#### 7.7.1 Test Setup Diagram



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

Operating Environment:  
 Temperature: 22.4 °C      Humidity: 71.5 % RH      Atmospheric Pressure: 1013 mbar

#### 7.7.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description   |
|-----------------------|-----------|---|
| Final test            | 04        | Test the EUT in cooling mode, and adjust the EUT temperature at the lowest temperature position.  |
| Final test            | 05        | Test the EUT in heating mode, and adjust the EUT temperature at the highest temperature position. |
| Final test            | 06        | Test the EUT in idle mode.  |



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### 7.7.4 Test Condition and Results

Performance Criterion:

For 50Hz: 0% of UT (Rated Voltage) for 0.5 Cycle: C; 40% of UT for 10 Cycles: C; 70% of UT for 25 Cycles: C.

For 60Hz: 0% of UT (Rated Voltage) for 0.5 Cycle: C; 40% of UT for 12 Cycles: C; 70% of UT for 30 Cycles: C.

No. of Dips / Interruptions: 3 per Level

Time between dropout: 10s

| Level % UT | Phase (deg) | Duration           | No. of Dips / Interruptions | Result / Observations |
|------------|-------------|--------------------|-----------------------------|-----------------------|
| 0          | 0°          | 0.5 Cycle for 50Hz | 3                           | A                     |
| 0          | 180°        | 0.5 Cycle for 50Hz | 3                           | A                     |
| 40         | 0°          | 10 Cycles for 50Hz | 3                           | A                     |
| 40         | 180°        | 10 Cycles for 50Hz | 3                           | A                     |
| 70         | 0°          | 25 Cycles for 50Hz | 3                           | A                     |
| 70         | 180°        | 25 Cycles for 50Hz | 3                           | A                     |

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



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## 8 Test Setup Photo

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



### Conducted Emissions at Load Terminals and Additional Terminals



### Disturbance Power



### Harmonic Current Emission



### Voltage Fluctuations and Flicker



### Discontinuous Disturbance (150kHz-30MHz)



### Electrostatic Discharge



### Electrical Fast Transients Burst at AC Mains Power Port



### Electrical Fast Transients Burst at Signal Port



### Surge at AC Mains Power Port



### Conducted Immunity at AC Mains Power Port (150kHz-230MHz)



### Conducted Immunity at Signal Port (150kHz-230MHz)



### Voltage Dips and Interruptions



### 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2411001323HS

- End of the Report -



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