

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-01-15 | | Original |
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|---------------------------------|--------------------------|--------------------------|------|
| Authorized for issue by: | | | |
| Tested By | | | |
| | Roy Su /Project Engineer | 2020-09-02 to 2020-11-04 | Date |
| Checked By | | | |
| | Cherie Luo /Reviewer | 2021-01-05 | Date |



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2 Test Summary

| Emission Part | | | | |
|---|----------------------------|----------------------------|--------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Disturbance at Mains Terminals (150kHz-30MHz) | EN 55014-1:2017 +A11:2020 | CISPR 16-2-1 | N/A | Pass |
| Radiated Disturbance (30MHz-1GHz) | EN 55014-1:2017 +A11:2020 | CISPR 16-2-3 | N/A | Pass |
| Discontinuous Disturbance (150kHz-30MHz) | EN 55014-1:2017 +A11:2020 | EN 55014-1:2017 +A11:2020 | N/A | Pass* |
| Harmonic Current Emission | EN IEC 61000-3-2: 2019 | EN IEC 61000-3-2: 2019 | Class A | Pass* |
| Voltage Fluctuations and Flicker | EN 61000-3-3:2013 +A1:2019 | EN 61000-3-3:2013 +A1:2019 | Clause 5 of EN 61000-3-3 | Pass |

N/A: Not applicable

* Please refer to Section 6.3 & 6.4 of this report for details.



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| Immunity Part | | | | |
|--|-----------------|------------------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Electrostatic Discharge | EN 55014-2:2015 | EN 61000-4-2:2009 | 4kV Contact Discharge 8kV Air Discharge | Pass |
| Electrical Fast Transients/Burst at Power Port and Signal lines | EN 55014-2:2015 | EN 61000-4-4:2012 | AC cable: $\pm 1.0\text{kV}$ Signal lines: $\pm 0.5\text{kV}$ 5/50ns Tr/Th 5kHz Repetition Frequency | Pass |
| Surge at Power Port | EN 55014-2:2015 | EN 61000-4-5:2014 | 1.2/50 μs Tr/Th 1kV Line to Line 2kV Line to Ground | Pass** |
| Conducted Immunity at Power Port and Signal lines(150kHz-230MHz) | EN 55014-2:2015 | EN 61000-4-6:2014 | AC: 3V r.m.s (emf), Signal lines: 1V r.m.s (emf), 80%, 1kHz Amp. Mod. | Pass |
| Voltage Dips and Interruptions | EN 55014-2:2015 | EN 61000-4-11:2004 | 0 % UT for 0.5per 40 % UT for 10per 70 % UT for 25per UT is Supply Voltage | Pass |
| | | | 0 % UT for 0.5per 40 % UT for 12per 70 % UT for 30per UT is Supply Voltage | |
| Radiated Immunity (80MHz-1GHz) | EN 55014-2:2015 | EN 61000-4-3:2006 +A1:2008+A2:2010 | 3V/m, 80%, 1kHz Amp. Mod. | Pass |

** The EUT passed Surge at Power Port test after modification.

Declaration of EUT Family Grouping:

Model No.: DB-1001, DB-1002.

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 outer decoration.

Therefore only one model **DB-1001** was tested in this report.



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3 Contents

| | Page |
|--|------|
| 1 Cover Page | 1 |
| 2 Test Summary | 3 |
| 3 Contents | 5 |
| 4 General Information..... | 7 |
| 4.1 Details of E.U.T..... | 7 |
| 4.2 Description of Support Units | 7 |
| 4.3 Measurement Uncertainty | 7 |
| 4.4 Test Location..... | 8 |
| 4.5 Test Facility | 9 |
| 4.6 Deviation from Standards..... | 10 |
| 4.7 Abnormalities from Standard Conditions..... | 10 |
| 4.8 Monitoring of EUT for All Immunity Test | 10 |
| 5 Equipment List..... | 11 |
| 6 Emission Test Results | 16 |
| 6.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz)..... | 16 |
| 6.1.1 E.U.T. Operation..... | 16 |
| 6.1.2 Test Setup Diagram | 16 |
| 6.1.3 Measurement Data | 17 |
| 6.3 Discontinuous Disturbance (150kHz-30MHz) | 28 |
| 6.4 Harmonic Current Emission | 29 |
| 6.5 Voltage Fluctuations and Flicker | 30 |
| 6.5.1 E.U.T. Operation..... | 30 |
| 6.5.2 Test Setup Diagram | 30 |
| 6.5.3 Measurement Data | 31 |
| 7 Immunity Test Results | 32 |
| 7.1 Performance Criteria Description in EN 55014-2:2015 | 32 |
| 7.2 Electrostatic Discharge | 33 |
| 7.2.1 E.U.T. Operation..... | 33 |
| 7.2.2 Test Setup Diagram | 33 |
| 7.2.3 Test Results:..... | 34 |
| 7.3 Electrical Fast Transients/Burst at Power Port..... | 35 |
| 7.3.1 E.U.T. Operation..... | 35 |
| 7.3.2 Test Setup Diagram | 35 |
| 7.3.3 Test Results:..... | 35 |
| 7.4 Surge at Power Port..... | 36 |
| 7.4.1 E.U.T. Operation..... | 36 |
| 7.4.2 Test Setup Diagram | 36 |
| 7.4.3 Test Results:..... | 37 |
| 7.5 Conducted Immunity at Power Port (150kHz-230MHz)..... | 38 |
| 7.5.1 E.U.T. Operation..... | 38 |
| 7.5.2 Test Setup Diagram | 38 |



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| | | |
|----------|-------------------------------------|-----------|
| 7.5.3 | Test Results:..... | 38 |
| 7.6 | Voltage Dips and Interruptions..... | 39 |
| 7.6.1 | E.U.T. Operation..... | 39 |
| 7.6.2 | Test Setup Diagram..... | 39 |
| 7.6.3 | Test Results:..... | 40 |
| 7.7 | Radiated Immunity (80MHz-1GHz)..... | 41 |
| 7.7.1 | E.U.T. Operation..... | 41 |
| 7.7.2 | Test Setup Diagram..... | 41 |
| 7.7.3 | Test Results:..... | 42 |
| 8 | Photographs..... | 43 |
| 8.1 | EUT Constructional Details..... | 43 |



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------|---|
| Power Supply: | AC 100-240V, 50/60Hz |
| Adapter: | Model: HP06A-0500600-AVE-S Input: AC 100-240V, 50/60Hz; 0.3A Output: 5V; 0.6A |
| Power: | 22W |
| Test Voltage: | AC 120V,60Hz & AC 230V, 50Hz |
| Cable: | About 1.8m unscreened DC output cable. |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|----------------------------------|--------------------------|
| 1 | Conducted Disturbance | 3.63dB (9kHz to 150kHz) |
| | | 3.22dB (150kHz to 30MHz) |
| 2 | Disturbance Power | 3.78dB |
| 3 | Radiated Disturbance | 5.0dB (30MHz-1GHz) |
| | | 5.0dB (1GHz-6GHz) |
| 4 | Radiated Immunity | 2.18dB |
| 5 | Conducted Immunity | 3.5dB |
| 6 | ESD | 6 % |
| 7 | EFT (Electrical Fast Transients) | 4 % |
| 8 | Surge Immunity | 6% |
| 9 | Voltage Dips and Interruptions | 4 % |
| 10 | 20 System | 1.5dB |
| 11 | Temperature Test | 0.4°C |
| 12 | Humidity Test | 1.3% |
| 13 | DC power Test | 0.5 % |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

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:

- **NVLAP (Lab Code: 200611-0)**
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- **ACMA**
 SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.
- **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.
- **CNAS (Lab Code: L0167)**
 SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.
- **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, Jul 13, 2017.
- **Industry Canada (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-10449 and T-11179)**
 The 10m Semi-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-10449 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.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

The EUT passed Surge at Power Port test after modification.

4.8 Monitoring of EUT for All Immunity Test

Visual: LED display indication.

Audio: N/A



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5 Equipment List

| Conducted Disturbance at Mains Terminals (150kHz-30MHz) | | | | | | |
|---|--|------------------------------------|----------------------------|----------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC0306 | Shielding Room | Zhong Yu | 8 x 3 x 3.8 m ³ | N/A | 2019-10-20 | 2022-10-19 |
| EMC0118 | Two-line v-netwok | R&S | ENV216 | 100359 | 2020-01-10 | 2021-01-09 |
| EMC2135 | Two-line v-netwok | R&S | ENV216 | 102259 | 2020-09-25 | 2021-09-24 |
| EMC0203 | LISN | AFJ | LS16-OPT001 | 116019831056 | 2020-01-10 | 2021-01-09 |
| EMC0506 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | 100085 | 2020-11-13 | 2021-11-12 |
| EMC2182 | Click Analyzer | Narda Safety Test Solutions | PMM CA0010 | 010WX90609 | 2020-10-23 | 2021-10-22 |
| EMC2183 | EMI Receiver | Narda Safety Test Solutions | PMM 9010F | 060WW90907 | 2020-10-23 | 2021-10-22 |
| EMC0107 | Coaxial Cable | SGS | 2m | N/A | 2020-09-09 | 2022-09-08 |
| EMC0106 | Voltage Probe | SGS | N/A | N/A | 2020-06-09 | 2022-06-08 |
| EMC2123 | 8 Line ISN Cat 6 | SCHWARZBECK MESS-ELEKTRONIK | NTFM 8158 | NTFM 8158 0151 | 2020-08-21 | 2022-08-20 |
| EMC2124 | 8 Line ISN Cat 5 | SCHWARZBECK MESS-ELEKTRONIK | CAT5 8158 | CAT5 8158-188 | 2020-05-24 | 2021-05-23 |
| EMC2126 | 8 Line ISN Cat 3 | SCHWARZBECK MESS-ELEKTRONIK | CAT3 8158 | CAT38158-0081 | 2020-05-24 | 2021-05-23 |
| EMC2122 | ISN S8 | SCHWARZBECK MESS-ELEKTRONIK | ISN S8 | 57 | 2020-05-24 | 2021-05-23 |
| EMC2121 | ISN S1 | SCHWARZBECK MESS-ELEKTRONIK | ISN S1 | 10 | 2020-05-24 | 2021-05-23 |
| EMC2125 | 2 wires ISN | SCHWARZBECK MESS-ELEKTRONIK | NTFM 8131 | 8131-198 | 2020-05-24 | 2021-05-23 |
| EMC2047 | CDN | Elektronik- Feinmechanik | L-801:AF2 | 2793 | 2020-08-21 | 2022-08-20 |
| EMC2048 | CDN | Elektronik- Feinmechanik | L-801:M2/M3 | 2738 | 2020-06-09 | 2022-06-08 |
| EMC2062 | 6dB Attenuator | HP | 8491A | 24487 | 2020-04-15 | 2022-04-14 |
| EMC0167 | Conical metal housing | SGS-EMC | N/A | N/A | 2020-04-19 | 2022-04-18 |
| EMC2106 | Current Probe | TESEQ GmbH | CSP 9160A | 75030 | 2019-01-16 | 2021-01-15 |
| EMC2103 | Hig Impedance Capactive Voltage Probe(9kHz-100MHz) | SCHWARZBECK MESS- ELEKTRONIK | CVP9222 B | 01006 | 2019-05-10 | 2021-05-09 |

| Harmonic Current Emission & Voltage Fluctuations and Flicker | | | | | | |
|--|-----------------|--------------|-----------|------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC0608 | AC Power Source | California | 50001iX | 56627 | 2020-03-27 | 2021-03-26 |
| EMC0607 | Power Analyzer | California | PACS | 72400 | 2020-03-27 | 2021-03-26 |



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| Electrostatic Discharge | | | | | | |
|-------------------------|-------------------------|--|-----------|------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC2071 | ESD Simulator | TESEQ AG | NSG 435 | 6739 | 2020-06-30 | 2021-06-30 |
| EMC2186 | ESD Simulator | EMTEST | NX30 | 23107 | 2020-03-02 | 2021-03-01 |
| EMC0804 | ESD Ground Plane | SGS | 3m x 3m | N/A | N/A | N/A |
| EMC0078 | Temperature, & Humidity | Shanghai Meteorological Instrument factory Co., Ltd. | ZJ1-2B | 0709131 | 2020-07-04 | 2021-07-03 |

| Electrical Fast Transients/Burst at Power Port, Surge at Power Port / Voltage Dips and Interruptions | | | | | | |
|--|---------------------------------|--------------|--|---------------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC2059 | Modular Impulse Surge Generator | EMC PARTNER | MIG0603EN | 259 | 2020-01-10 | 2021-01-09 |
| EMC2060 | High speed signal Surge CDN | EMC PARTNER | CDN-UTP | CDN-UTP0089 | 2020-01-10 | 2021-01-09 |
| EMC2072 | EMC Immunity Test System | TESEQ AG | NSG 3060 CDN3061 INA 6502 CIB CDN3425 | 1580 1466 222 | 2020-01-10 | 2021-01-09 |
| EMC2055 | Oscilloscope 500MHz | Tektronix | TDS3052C | C011815 | 2020-01-10 | 2021-01-09 |



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| Conducted Immunity at Power Port and Signal lines(150kHz-230MHz) | | | | | | |
|--|---|-------------------------|-----------------|------------|--------------|--------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal.Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC2115 | Test System for Conducted and Radiated Immunity | TESEQ AG | NSG 4070B-80 | 46144 | 2020-12-02 | 2021-12-01 |
| EMC2116 | 6dB Attenuator | SHANGHAI HUAXIANG | WDTS150-6-2.5-B | 20071701 | 2020-07-22 | 2022-07-23 |
| EMC1101 | Signal Generator | Rohde & Schwarz | SMY01 | 825675/016 | 2020-05-26 | 2021-05-25 |
| EMC1102 | Amplifier 0.15-230MHz | SCHAFFNER | GRF5048 | 1003 | 2020-05-26 | 2021-05-25 |
| EMC1103 | Power Meter | Rohde & Schwarz | NRVS | 825770/079 | 2019-12-23 | 2021-12-22 |
| EMC2180 | Audio Analyzer | KEYSIGHT | U8903B | MY59280002 | 2020-09-18 | 2021-09-17 |
| EMC2113 | CDN S502A | TESEQ | CDN S502A | 46206 | 2019-07-13 | 2021-07-12 |
| EMC2112 | CDN ST08A | TESEQ | CDN ST08A | 36631 | 2019-07-13 | 2021-07-12 |
| EMC2114 | CDN USB3.0 | TESEQ | CDN USB3.0 | 45777 | 2019-07-13 | 2021-07-12 |
| EMC2169 | CDN M1 | TESEQ | CDN M1 | 0004 | 2019-06-15 | 2021-06-14 |
| EMC1105 | Dual Directional coupler | Werlatone Inc. | C1795 | 6635 | 2020-05-26 | 2021-05-25 |
| EMC2055 | Oscilloscope 500MHz | Tektronix | TDS3052C | C011815 | 2020-01-10 | 2021-01-09 |
| EMC2048 | CDN | Elektronik-Feinmechanik | L-801:M2/M3 | 2738 | 2020-08-21 | 2022-08-20 |
| EMC1107 | CDN M2 | Schaffner Chase | CDN-M2-16 | 9863 | 2020-10-23 | 2023-10-22 |
| EMC1116 | Current Probe | Schaffner Chase | CIP9136 | 1155 | 2020-03-27 | 2022-03-26 |
| EMC1117 | Current Probe | Schaffner Chase | CSP8445 | 18 | 2020-03-27 | 2022-03-26 |



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| Radiated Disturbance (30MHz-1GHz) | | | | | | |
|-----------------------------------|--|-----------------------------|------------|------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC0525 | Compact Semi-Anechoic Chamber | ChangZhou ZhongYu | N/A | N/A | 2019-10-20 | 2022-10-19 |
| EMC0522 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | 100283 | 2020-01-10 | 2021-01-09 |
| EMC0056 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100236 | 2020-01-10 | 2021-01-09 |
| EMC2174 | Trilog Broadband Antenna 30-1000MHz | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | 0920 | 2018-09-06 | 2021-09-05 |
| SEM003-18 | Trilog Broadband Antenna 25-2000MHz | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | 00666 | 2019-02-22 | 2022-02-22 |
| EMC0519 | Bilog Type Antenna | Schaffner -Chase | CBL6143 | 5070 | 2020-06-08 | 2023-06-07 |
| EMC2016 | Horn Antenna | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | 9120D-841 | 2019-09-25 | 2022-09-24 |
| EMC0518 | Horn Antenna (1G~18G) | R & S | HF906 | 100096 | 2018-09-02 | 2021-09-01 |
| EMC0521 | 1-26.5 GHz Pre-Amplifier | Agilent | 8449B | 3008A01649 | 2020-01-10 | 2021-01-09 |
| EMC2065 | Amplifier | HP | 8447F | N/A | 2020-05-26 | 2021-05-25 |
| EMC2086 | PRE AMPLIFIER MH648A | ANRITSU CORP | MH648A | N/A | 2020-11-13 | 2021-11-12 |
| EMC0523 | Active Loop Antenna | EMCO | 6502 | 42963 | 2020-05-19 | 2022-05-18 |
| EMC2041 | Broad-Band Horn Antenna (14)15-26.5(40)GHZ | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9170 | 9170-375 | 2020-06-16 | 2023-06-15 |
| EMC2079 | High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | 009 | 2020-01-10 | 2021-01-09 |
| EMC2142 | 966 Anechoic Chamber | C.R.T | 9mX6mX6m | NA | 2017-12-19 | 2020-12-18 |
| EMC2139 | MXE EMI Receiver | Keysight | N9038A | MY57290121 | 2020-11-13 | 2021-11-12 |
| EMC2138 | EXA Signal Analyzer | Keysight | N9010A | MY57120105 | 2020-09-17 | 2021-09-16 |
| EMC2069 | 2.4GHz Filter | Micro-Tronics | BRM 50702 | 149 | 2020-01-10 | 2021-01-09 |
| EMC0530 | 10m Semi-Anechoic Chamber | ETS | N/A | N/A | 2019-10-20 | 2022-10-19 |



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| Radiated Immunity (80MHz-1GHz) | | | | | | |
|--------------------------------|--|-------------------------------|--------------|------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC0525 | Compact 3m Semi-Anechoic Chamber | Changzhou zhongyu | N/A | N/A | 2019-10-20 | 2022-10-19 |
| EMC2055 | Oscilloscope | Tektronix | TDS3052C | C011815 | 2020-01-10 | 2021-01-09 |
| EMC0909 | Monitor System | Mitsubish Corp. | M-0552AB | 91510185 | N/A | N/A |
| EMC2089 | Laser probe Interface | RF Microwave Instrumentation | FI7000 | 0344429 | N/A | N/A |
| EMC2090 | Open Switch and control unit | R&S | OSP130 | 100858 | N/A | N/A |
| EMC2091 | Broadband Amplifier (80M~1GHZ/250W) | R&S | BBA150 | 102036 | 2020-01-10 | 2021-01-09 |
| EMC2092 | Broadband Amplifier (800M~3GHZ/110W) | R&S | BBA150 | 102047 | 2020-03-02 | 2021-03-01 |
| EMC2093 | Signal Generator | R&S | SMB100A | 113083 | 2020-01-10 | 2021-01-09 |
| EMC2094 | Laser probe | RF Microwave Instrumentation | FL7006 | 0345061 | 2020-03-02 | 2021-03-01 |
| EMC2095 | NRP-Z91 Power Sensor 6GHZ | R&S | NPR-Z91 | 103354 | 2020-01-10 | 2021-01-09 |
| EMC2096 | NRP-Z91 Power Sensor 6GHZ | R&S | NPR-Z91 | 103355 | 2020-01-10 | 2021-01-09 |
| EMC2097 | High-Gain Log-periodic Antenna | R&S | HL046E | 100203 | 2019-02-15 | 2022-02-14 |
| EMC2180 | Audio Analyzer | KEYSIGHT | U8903B | MY59280002 | 2020-09-18 | 2021-09-17 |
| EMC2098 | RI Cable | R&S | 7m | N/A | 2020-05-24 | 2021-05-23 |
| SEM003-21 | Stacked Logarithmic-Periodic Broadband Antenna (0.7~9GHZ)/300W | SCHWARZBECK MESS - ELEKTRONIK | STLP 9149 | 356 | 2018-09-18 | 2021-09-17 |
| GZE100-63 | Test Software EMC32 | Rohde & Schwarz | Ver. 9.26.00 | N/A | N/A | N/A |
| EMC2105 | Broadband Amplifier (2.5~6GHZ/30W) | R&S | BBA150 | 102305 | 2020-09-18 | 2021-09-17 |

| General used equipment | | | | | | |
|------------------------|----------------|--------------|-----------|------------|--------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Cal. Due date |
| | | | | | (YYYY-MM-DD) | (YYYY-MM-DD) |
| EMC0006 | DMM | Fluke | 73 | 70681569 | 2020-07-09 | 2021-07-08 |
| EMC0007 | DMM | Fluke | 73 | 70671122 | 2020-07-09 | 2021-07-08 |



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6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz)

| | |
|-------------------|---|
| Test Requirement: | EN 55014-1:2017+A11:2020 |
| Test Method: | CISPR 16-2-1 |
| Frequency Range: | 150kHz to 30MHz |
| Limit: | |
| 0.15MHz-0.5MHz | 66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average |
| 0.5MHz-5MHz | 56dB(μV) quasi-peak, 46dB(μV) average |
| 5MHz-30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 150KHz to 30MHz |

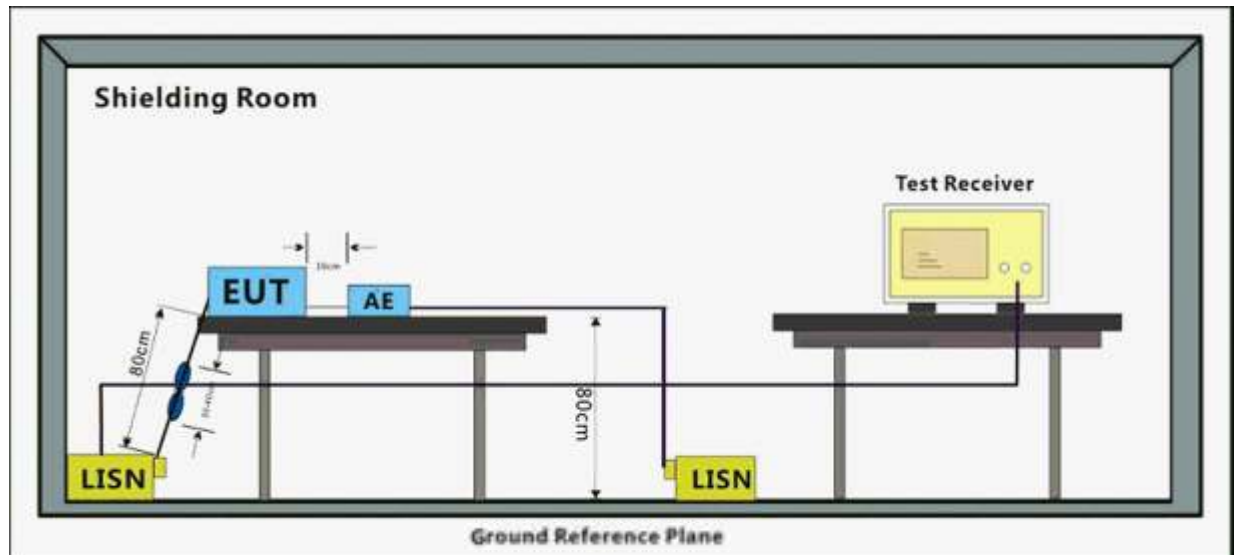
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b: Test the EUT in battery charging mode.

6.1.2 Test Setup Diagram



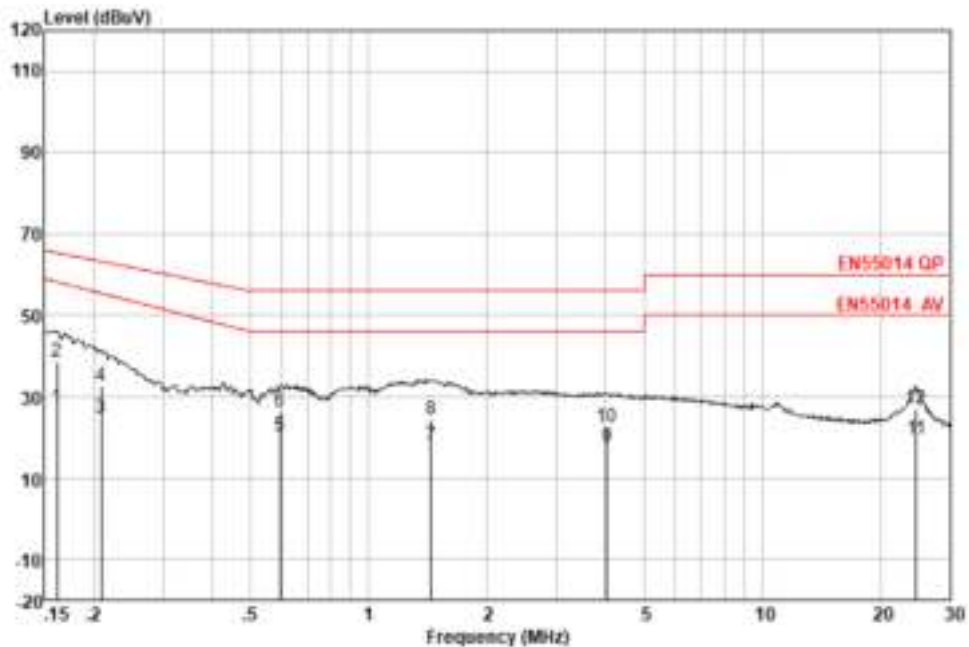
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6.1.3 Measurement Data

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.

For 120V

Live Line

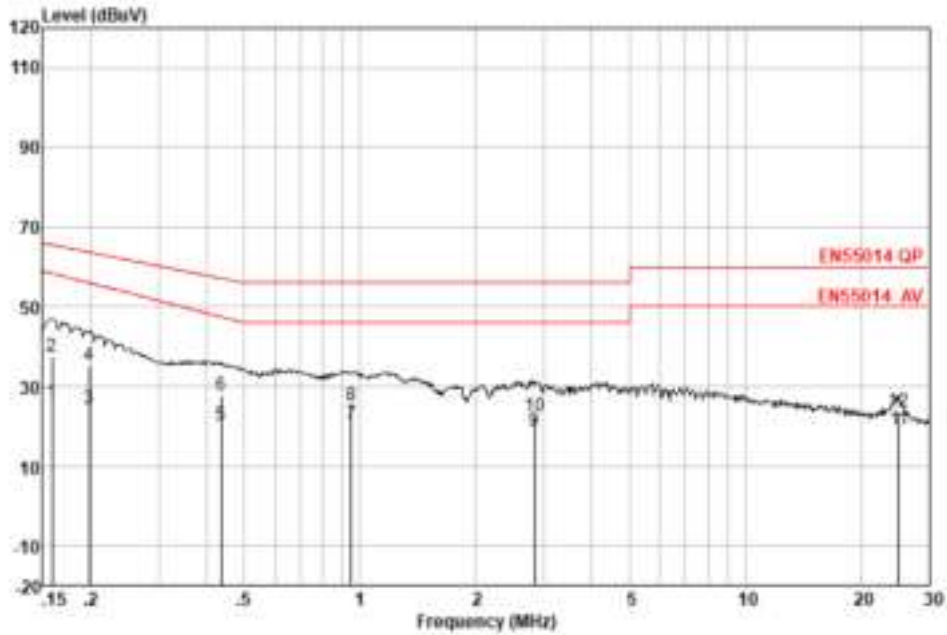


| Freq | Read Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark |
|--------|------------|-------------|------------|------------|------------|---------|
| MHz | dBuV | dB | dB | dBuV | dB | |
| 0.162 | 17.55 | 9.65 | 0.10 | 58.20 | -30.90 | Average |
| 0.162 | 28.94 | 9.65 | 0.10 | 65.38 | -26.69 | QP |
| 0.208 | 15.06 | 9.65 | 0.10 | 55.45 | -30.64 | Average |
| 0.208 | 22.85 | 9.65 | 0.10 | 63.27 | -30.67 | QP |
| 0.595 | 10.59 | 9.64 | 0.10 | 46.00 | -25.67 | Average |
| 0.595 | 16.42 | 9.64 | 0.10 | 56.00 | -29.84 | QP |
| 1.441 | 8.32 | 9.65 | 0.10 | 46.00 | -27.93 | Average |
| 1.441 | 14.54 | 9.65 | 0.10 | 56.00 | -31.71 | QP |
| 4.027 | 7.89 | 9.69 | 0.10 | 46.00 | -28.32 | Average |
| 4.027 | 12.83 | 9.69 | 0.10 | 56.00 | -33.38 | QP |
| 24.659 | 9.19 | 10.16 | 0.20 | 50.00 | -30.45 | Average |
| 24.659 | 16.54 | 10.16 | 0.20 | 60.00 | -33.10 | QP |



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Neutral Line



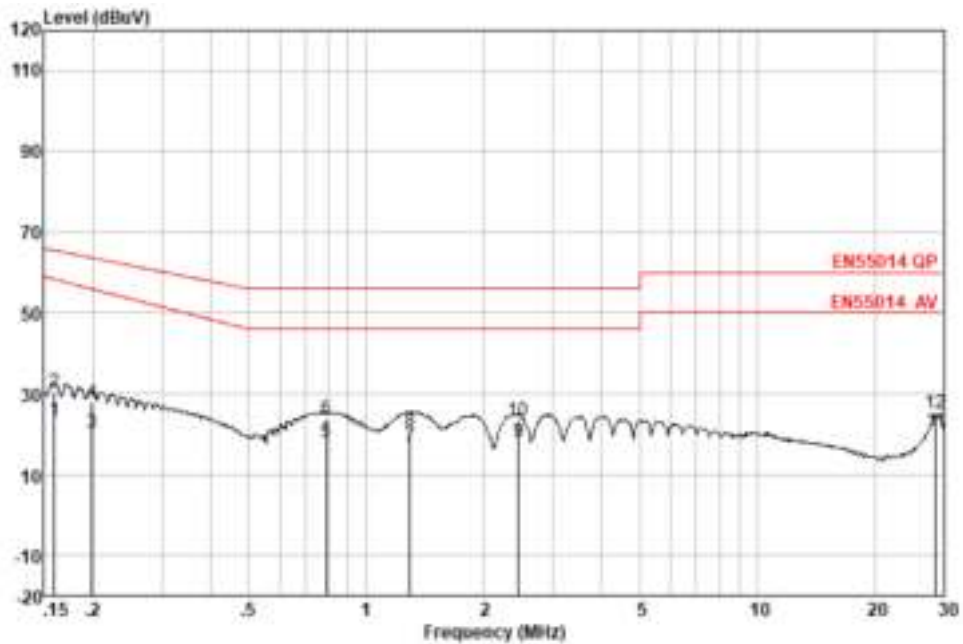
| Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|--------|------------|-------------|------------|-------|------------|------------|---------|
| MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 0.158 | 16.08 | 9.63 | 0.10 | 25.81 | 58.43 | -32.62 | Average |
| 0.158 | 27.58 | 9.63 | 0.10 | 37.31 | 65.56 | -28.25 | QP |
| 0.198 | 14.67 | 9.62 | 0.10 | 24.39 | 56.03 | -31.64 | Average |
| 0.198 | 25.72 | 9.62 | 0.10 | 35.44 | 63.71 | -28.27 | QP |
| 0.435 | 10.43 | 9.62 | 0.10 | 20.15 | 47.50 | -27.35 | Average |
| 0.435 | 17.91 | 9.62 | 0.10 | 27.63 | 57.15 | -29.52 | QP |
| 0.948 | 10.79 | 9.63 | 0.10 | 20.52 | 46.00 | -25.48 | Average |
| 0.948 | 15.63 | 9.63 | 0.10 | 25.36 | 56.00 | -30.64 | QP |
| 2.839 | 9.22 | 9.66 | 0.10 | 18.98 | 46.00 | -27.02 | Average |
| 2.839 | 12.96 | 9.66 | 0.10 | 22.72 | 56.00 | -33.28 | QP |
| 25.055 | 8.56 | 10.30 | 0.20 | 19.06 | 50.00 | -30.94 | Average |
| 25.055 | 13.28 | 10.30 | 0.20 | 23.78 | 60.00 | -36.22 | QP |



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For 230V
Live Line

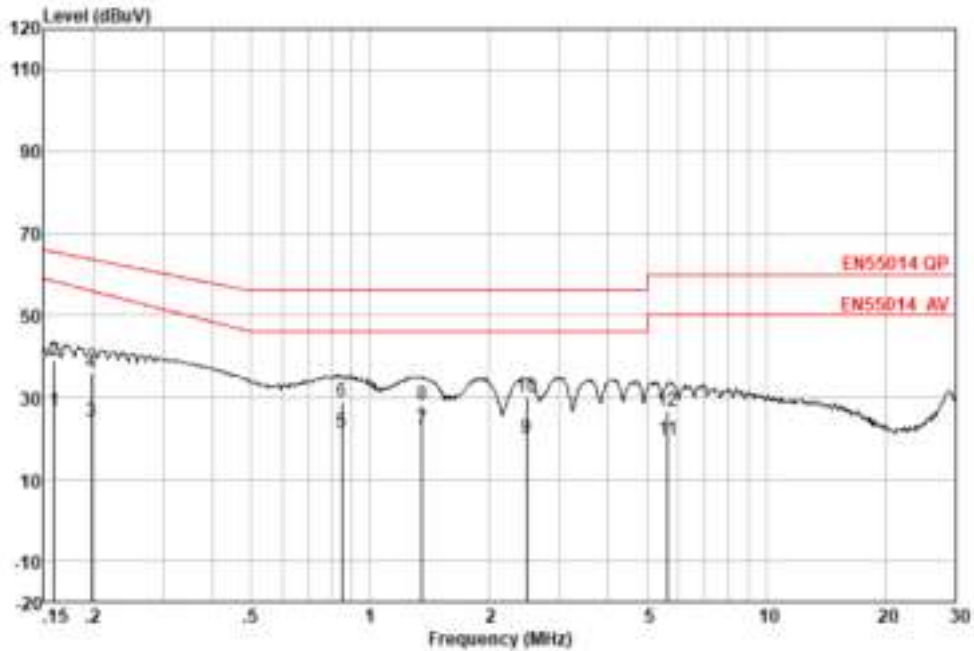


| Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|--------|------------|-------------|------------|-------|------------|------------|---------|
| MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 0.159 | 13.69 | 9.65 | 0.10 | 23.44 | 58.37 | -34.93 | Average |
| 0.159 | 20.52 | 9.65 | 0.10 | 30.27 | 65.52 | -35.25 | QP |
| 0.199 | 10.44 | 9.65 | 0.10 | 20.19 | 55.97 | -35.78 | Average |
| 0.199 | 18.13 | 9.65 | 0.10 | 27.88 | 63.67 | -35.79 | QP |
| 0.792 | 8.16 | 9.64 | 0.10 | 17.90 | 46.00 | -28.10 | Average |
| 0.792 | 13.78 | 9.64 | 0.10 | 23.52 | 56.00 | -32.48 | QP |
| 1.296 | 7.18 | 9.64 | 0.10 | 16.92 | 46.00 | -29.08 | Average |
| 1.296 | 10.99 | 9.64 | 0.10 | 20.73 | 56.00 | -35.27 | QP |
| 2.448 | 8.23 | 9.66 | 0.10 | 17.99 | 46.00 | -28.01 | Average |
| 2.448 | 13.72 | 9.66 | 0.10 | 23.48 | 56.00 | -32.52 | QP |
| 28.603 | 10.42 | 10.25 | 0.20 | 20.87 | 50.00 | -29.13 | Average |
| 28.603 | 14.71 | 10.25 | 0.20 | 25.16 | 60.00 | -34.84 | QP |



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Neutral Line



| Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|-------|------------|-------------|------------|-------|------------|------------|---------|
| MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 0.159 | 16.95 | 9.63 | 0.10 | 26.68 | 58.37 | -31.69 | Average |
| 0.159 | 29.23 | 9.63 | 0.10 | 38.96 | 65.52 | -26.56 | QP |
| 0.198 | 14.21 | 9.62 | 0.10 | 23.93 | 56.03 | -32.10 | Average |
| 0.198 | 26.39 | 9.62 | 0.10 | 36.11 | 63.71 | -27.60 | QP |
| 0.848 | 11.81 | 9.61 | 0.10 | 21.52 | 46.00 | -24.48 | Average |
| 0.848 | 19.08 | 9.61 | 0.10 | 28.79 | 56.00 | -27.21 | QP |
| 1.352 | 12.45 | 9.65 | 0.10 | 22.20 | 46.00 | -23.80 | Average |
| 1.352 | 18.49 | 9.65 | 0.10 | 28.24 | 56.00 | -27.76 | QP |
| 2.487 | 10.10 | 9.66 | 0.10 | 19.86 | 46.00 | -26.14 | Average |
| 2.487 | 20.22 | 9.66 | 0.10 | 29.98 | 56.00 | -26.02 | QP |
| 5.653 | 9.87 | 9.69 | 0.10 | 19.66 | 50.00 | -30.34 | Average |
| 5.653 | 16.75 | 9.69 | 0.10 | 26.54 | 60.00 | -33.46 | QP |



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6.2 Radiated Disturbance (30MHz-1GHz)

| | |
|-----------------------|--|
| Test Requirement: | EN 55014-1:2017+A11:2020 |
| Test Method: | CISPR 16-2-3 |
| Test voltage: | AC 120V,60Hz; 230V,50Hz; DC 5V |
| Frequency Range: | 30MHz to 1GHz |
| Measurement Distance: | 10m |
| Limit: | |
| 30MHz-230MHz | 30 dB(μV/m) quasi-peak |
| 230MHz-1GHz | 37 dB(μV/m) quasi-peak |
| Detector: | Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz |

6.2.1 E.U.T. Operation

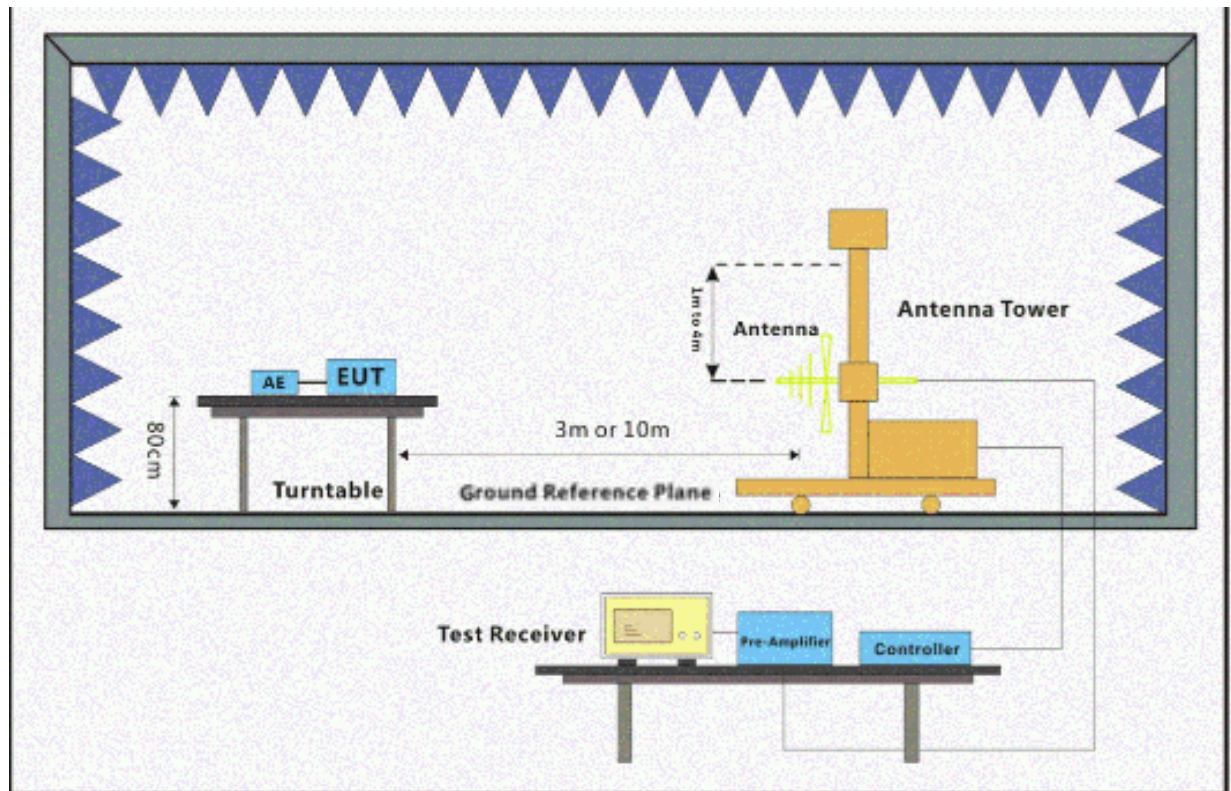
Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1020 mbar

a: Test EUT in motor running mode by BO supply.

Test Mode: b: Test the EUT in battery charging mode.

6.2.2 Test Setup Diagram



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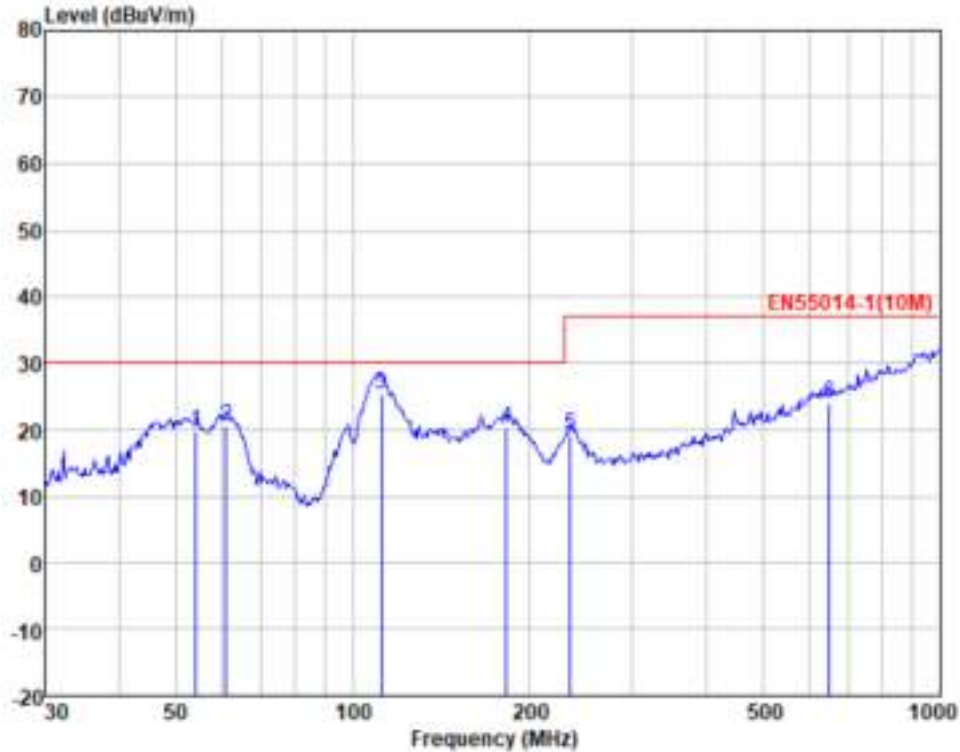
6.2.3 Measurement Data

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.

Mode b:

For 120V:

Vertical

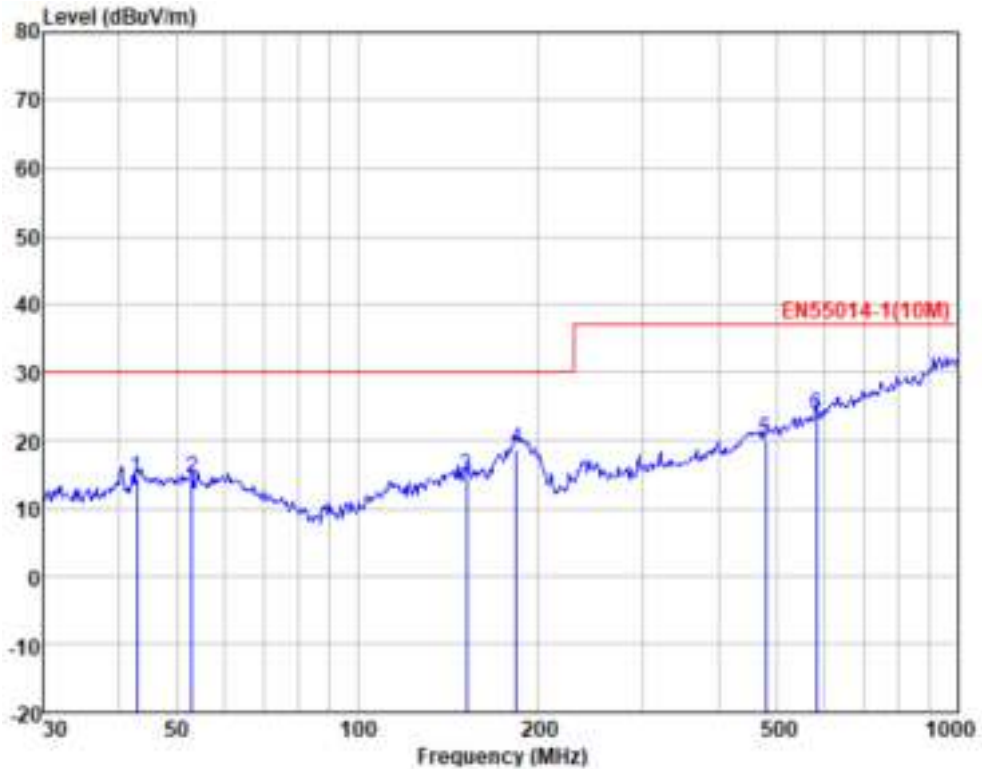


| ReadAntenna Freq | Level | Factor | Cable Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|------------------|-------|--------|------------|---------------|-------------|------------|-----------|-------------|
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 54.071 | 31.86 | 13.80 | 1.26 | 27.17 | 19.75 | 30.00 | -10.25 | VERTICAL QP |
| 60.918 | 33.14 | 13.25 | 1.32 | 27.16 | 20.55 | 30.00 | -9.45 | VERTICAL QP |
| 111.738 | 40.28 | 10.48 | 1.72 | 27.05 | 25.43 | 30.00 | -4.57 | VERTICAL QP |
| 182.559 | 33.08 | 11.63 | 2.39 | 26.75 | 20.35 | 30.00 | -9.65 | VERTICAL QP |
| 234.991 | 31.71 | 11.40 | 2.66 | 26.67 | 19.10 | 37.00 | -17.90 | VERTICAL QP |
| 647.386 | 26.85 | 20.48 | 4.92 | 28.18 | 24.07 | 37.00 | -12.93 | VERTICAL QP |



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Horizontal

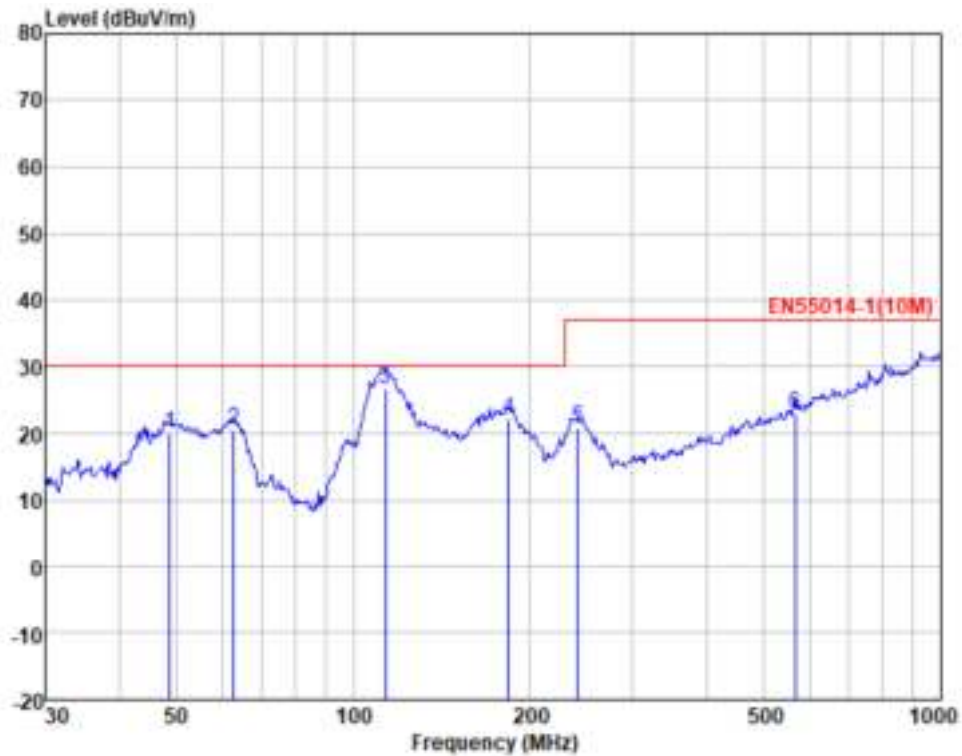


| Freq | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp | Level | Limit | Over | Pol/Phase | Remark |
|---------|-------------------|----------------|------------|--------|--------|--------|--------|------------|--------|
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 42.900 | 26.69 | 13.75 | 1.14 | 27.17 | 14.41 | 30.00 | -15.59 | HORIZONTAL | QP |
| 52.945 | 26.36 | 13.90 | 1.24 | 27.17 | 14.33 | 30.00 | -15.67 | HORIZONTAL | QP |
| 152.130 | 25.51 | 13.80 | 2.07 | 26.82 | 14.56 | 30.00 | -15.44 | HORIZONTAL | QP |
| 183.844 | 31.51 | 11.50 | 2.39 | 26.75 | 18.65 | 30.00 | -11.35 | HORIZONTAL | QP |
| 478.846 | 26.38 | 17.57 | 4.08 | 27.90 | 20.13 | 37.00 | -16.87 | HORIZONTAL | QP |
| 582.743 | 27.82 | 19.25 | 4.74 | 28.19 | 23.62 | 37.00 | -13.38 | HORIZONTAL | QP |



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For 230V
Vertical

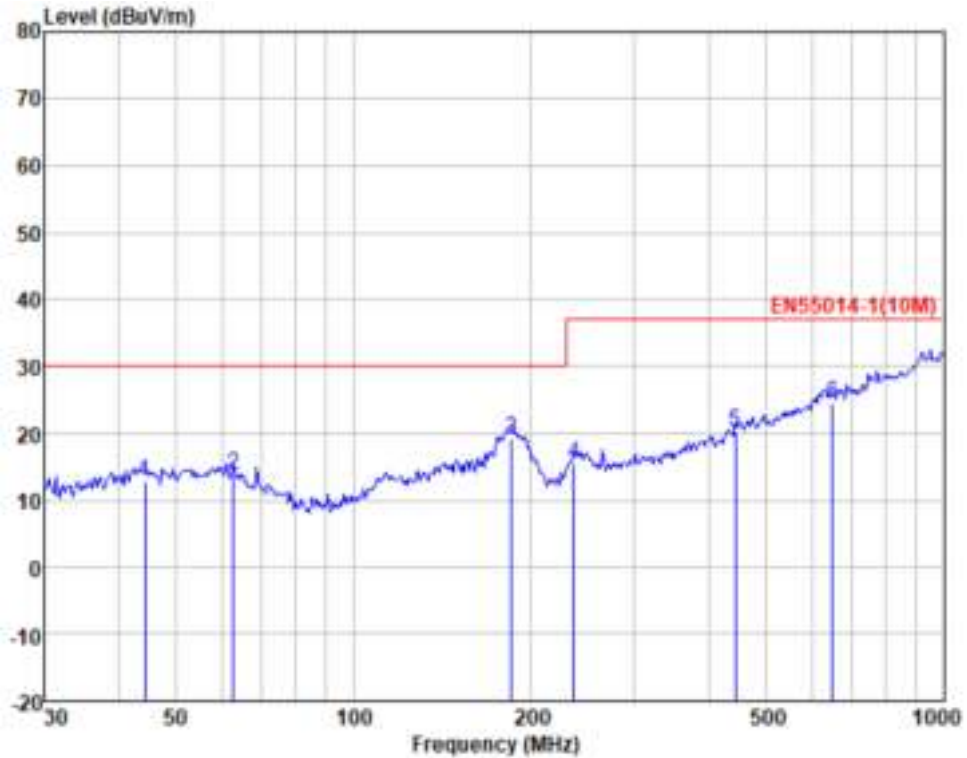


| ReadAntenna Freq | Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|------------------|-------|----------------|------------|---------------|--------|--------|--------|-----------|--------|
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 48.672 | 31.94 | 13.97 | 1.19 | 27.17 | 19.93 | 30.00 | -10.07 | VERTICAL | QP |
| 62.651 | 33.22 | 13.04 | 1.31 | 27.15 | 20.42 | 30.00 | -9.58 | VERTICAL | QP |
| 113.316 | 41.28 | 10.57 | 1.74 | 27.05 | 26.54 | 30.00 | -3.46 | VERTICAL | QP |
| 183.844 | 34.98 | 11.50 | 2.39 | 26.75 | 22.12 | 30.00 | -7.88 | VERTICAL | QP |
| 241.676 | 32.85 | 11.93 | 2.68 | 26.65 | 20.81 | 37.00 | -16.19 | VERTICAL | QP |
| 566.622 | 27.65 | 18.85 | 4.60 | 28.16 | 22.94 | 37.00 | -14.06 | VERTICAL | QP |



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Horizontal

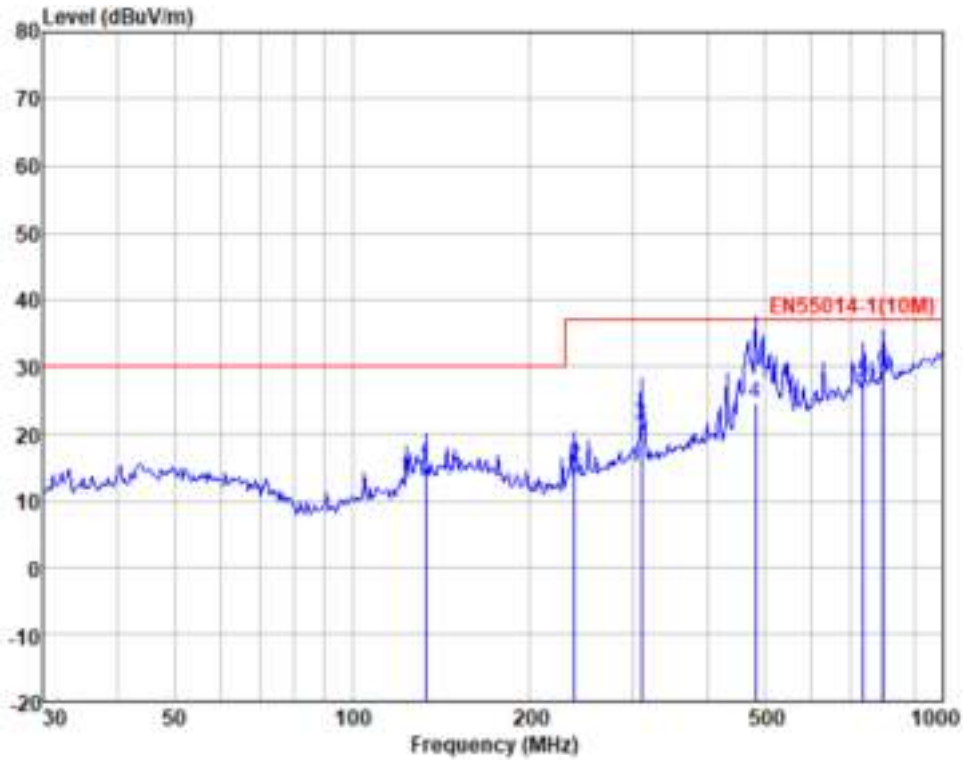


| Freq | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Pol/Phase | Remark |
|---------|-------------------|----------------|------------|---------------|--------|--------|------------|------------|--------|
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 44.431 | 24.99 | 13.82 | 1.18 | 27.17 | 12.82 | 30.00 | -17.18 | HORIZONTAL | QP |
| 62.651 | 26.55 | 13.84 | 1.31 | 27.15 | 13.75 | 30.00 | -16.25 | HORIZONTAL | QP |
| 185.138 | 32.24 | 11.37 | 2.41 | 26.75 | 19.27 | 30.00 | -10.73 | HORIZONTAL | QP |
| 236.645 | 27.99 | 11.56 | 2.67 | 26.67 | 15.55 | 37.00 | -21.45 | HORIZONTAL | QP |
| 443.294 | 26.71 | 17.13 | 3.97 | 27.61 | 20.20 | 37.00 | -16.80 | HORIZONTAL | QP |
| 647.386 | 27.21 | 20.48 | 4.92 | 28.18 | 24.43 | 37.00 | -12.57 | HORIZONTAL | QP |



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Mode a:
 Vertical

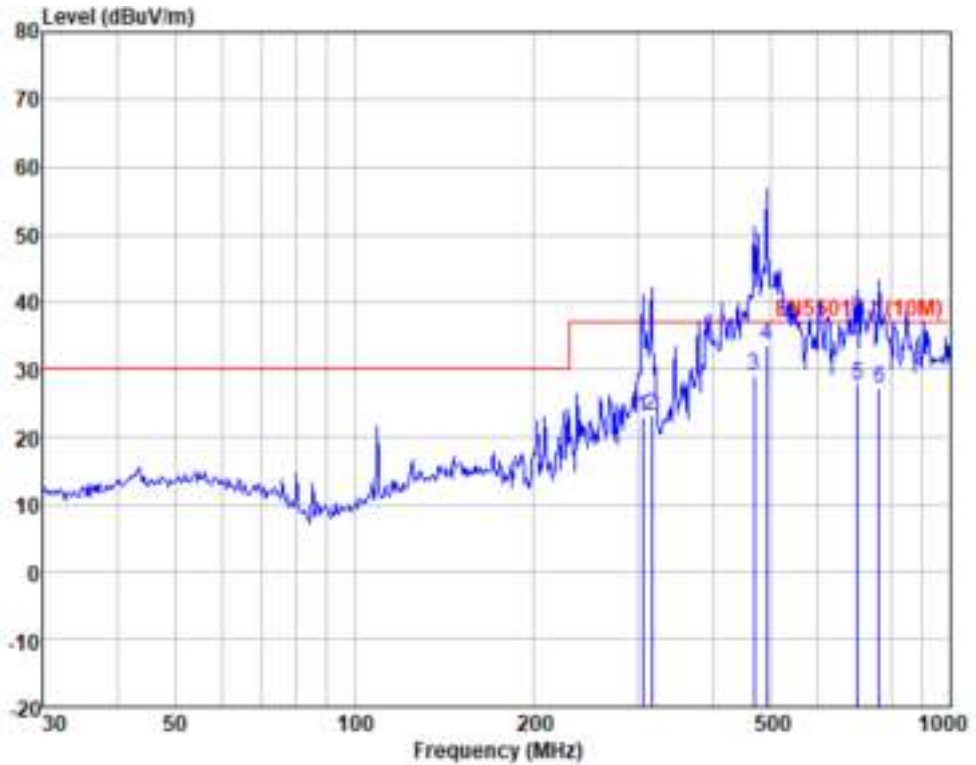


| ReadAntenna Freq | Level | Cable Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|------------------|-------|------------|---------------|-------------|------------|-----------|--------------------|
| MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | |
| 133.151 | 27.63 | 12.40 | 1.88 | 26.97 | 14.94 | 30.00 | -15.06 VERTICAL QP |
| 238.310 | 27.59 | 11.74 | 2.67 | 26.67 | 15.33 | 37.00 | -21.67 VERTICAL QP |
| 308.913 | 31.08 | 13.85 | 2.99 | 26.60 | 21.32 | 37.00 | -15.68 VERTICAL QP |
| 482.216 | 30.74 | 17.63 | 4.08 | 27.92 | 24.53 | 37.00 | -12.47 VERTICAL QP |
| 734.491 | 28.74 | 21.90 | 5.20 | 28.12 | 27.72 | 37.00 | -9.28 VERTICAL QP |
| 793.396 | 29.16 | 22.53 | 5.78 | 28.04 | 29.43 | 37.00 | -7.57 VERTICAL QP |



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Horizontal



| Freq | ReadAntenna | Cable | Preamp | Limit | Over | Pol/Phase | Remark |
|---------|-------------|--------|--------|-------|--------|-----------|----------------------|
| MHz | Level | Factor | Loss | Level | Line | Limit | |
| | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 304.618 | 32.94 | 13.70 | 2.98 | 26.57 | 23.05 | 37.00 | -13.95 HORIZONTAL QP |
| 315.481 | 32.61 | 14.10 | 3.00 | 26.63 | 23.08 | 37.00 | -13.92 HORIZONTAL QP |
| 468.876 | 35.35 | 17.47 | 4.13 | 27.84 | 29.11 | 37.00 | -7.89 HORIZONTAL QP |
| 492.469 | 39.72 | 17.85 | 4.05 | 27.95 | 33.67 | 37.00 | -3.33 HORIZONTAL QP |
| 699.305 | 29.48 | 21.00 | 5.48 | 28.16 | 27.80 | 37.00 | -9.20 HORIZONTAL QP |
| 760.704 | 27.66 | 22.20 | 5.31 | 28.07 | 27.10 | 37.00 | -9.90 HORIZONTAL QP |



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6.3 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN 55014-1:2017+A11:2020

Test Method: EN 55014-1:2017+A11:2020

Frequency Range: 150kHz to 30MHz

Remark:

Not applicable. The EUT belongs to exceptions from the click definition in clause 4.2.3.1,

“4.2.3.1 Individual switching operations

The disturbance from individual switching operations, caused directly or indirectly, manually or by similar activities on a switch or a control which is included in an appliance or otherwise to be used for:

a) the purpose of mains connection or disconnection only;

b) the purpose of programme selection only;

c) the control of energy or speed by switching between a limited number of fixed positions;

d) the changing of the manual setting of a continuously adjustable control such as a variable speed device for water extraction or electronic thermostats, is to be disregarded for the purpose of testing the appliance for compliance with the limits of radio disturbance set out in this standard.

Examples of switches included in this subclause are the on/off switches for apparatus (including foot activated), for instance the switch for an electric typewriter, manual switches for heat and air flow control in fan heaters and hair dryers, as well as the indirectly operated switch in a cupboard, wardrobe or refrigerator, and sensor-operated switches, etc. Switches which usually will be repeatedly operated are not included in this subclause, e.g. for sewing machines, calculating machines, soldering equipment, etc. (see 7.2.3. and 7.3.2.4.c).

Also the disturbance caused by the operation of any switching device or control which is included in an appliance for the purpose of mains disconnection for safety only, is to be disregarded for the purpose of testing the appliance for compliance with the limits of radio disturbance as described in this standard.”



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6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2:2019

Test Method: EN IEC 61000-3-2:2019

Frequency Range: 100Hz to 2kHz

Remark:

Since the EUT was belong to exception of clause 7 and Annex C, according to EN 61000-3-2 figure 1, it was deemed to conform to the requirements of this standard without further testing.

“7 Harmonic current limits

The procedure for applying the limits and assessing the results is shown in Figure 1.

For the following categories of equipment, limits are not specified in this standard:

NOTE 1 Limits may be defined in a future amendment or revision of the standard.

– equipment with a rated power of 75 W or less, other than lighting equipment.

NOTE 2 This value may be reduced from 75 W to 50 W in the future, subject to approval by National Committees at that time.

– professional equipment with a total rated power greater than 1 kW.

– symmetrically controlled heating elements with a rated power less than or equal to 200 W.

– independent dimmers for incandescent lamps with a rated power less than or equal to 1 kW.

NOTE 3 See also C.5.3.”

and

No limit applies for all LED lighting equipments with active input power ≤ 25 W except Discharge lighting equipment (refer to 7.3 b))

Kitchen machines as listed in the scope of IEC 60335-2-14 are deemed to conform to the harmonic current limits of this standard without further testing.

Please read clause 7 & Annex C of this standard for reference.



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6.5 Voltage Fluctuations and Flicker

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

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

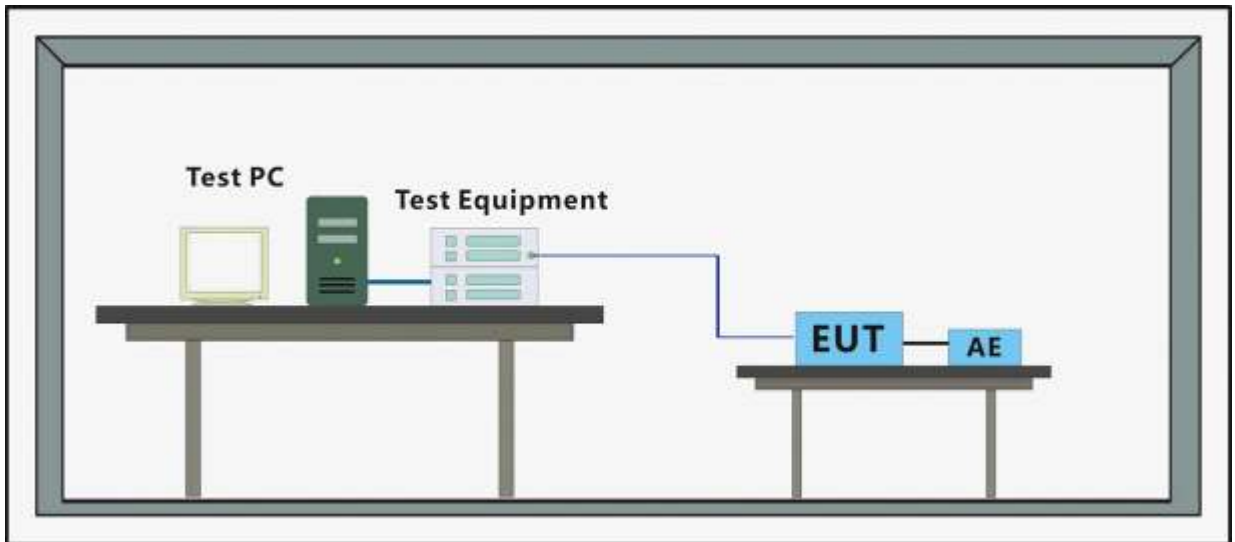
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 47 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b: Test the EUT in battery charging mode.

6.5.2 Test Setup Diagram



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6.5.3 Measurement Data

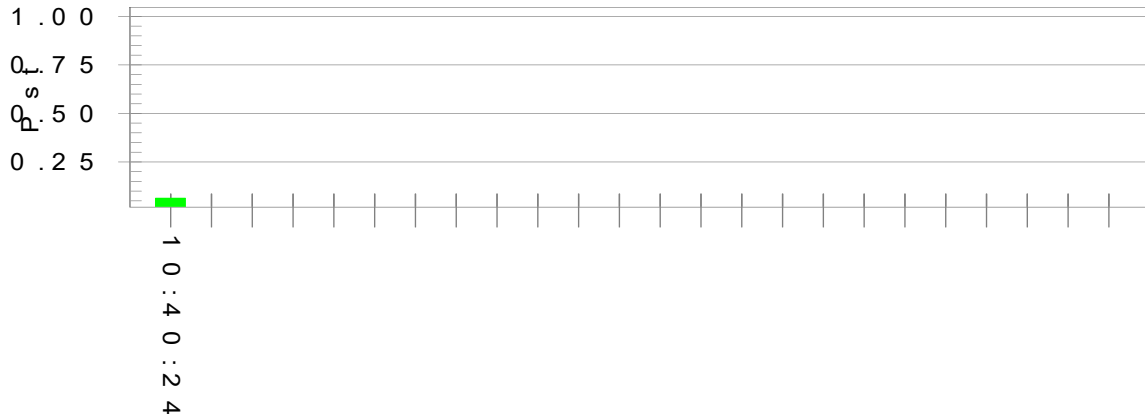
Flicker Test Summary per EN 61000-3-3 (Run time)

Test Result: Pass

Status: Test Completed

Pst_i and limit line

European Limits



Parameter values recorded during the test:

| | | | | |
|--|---------------|-------------------------|--------------|-------------|
| Vrms at the end of test (Volt): | 230.05 | | | |
| T-max (mS): | 0 | Test limit (mS): | 500.0 | Pass |
| Highest dc (%): | 0.04 | Test limit (%): | 3.30 | Pass |
| Highest dmax (%): | 0.56 | Test limit (%): | 4.00 | Pass |
| Highest Pst (10 min. period): | 0.079 | Test limit: | 1.000 | Pass |



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 55014-2:2015

- 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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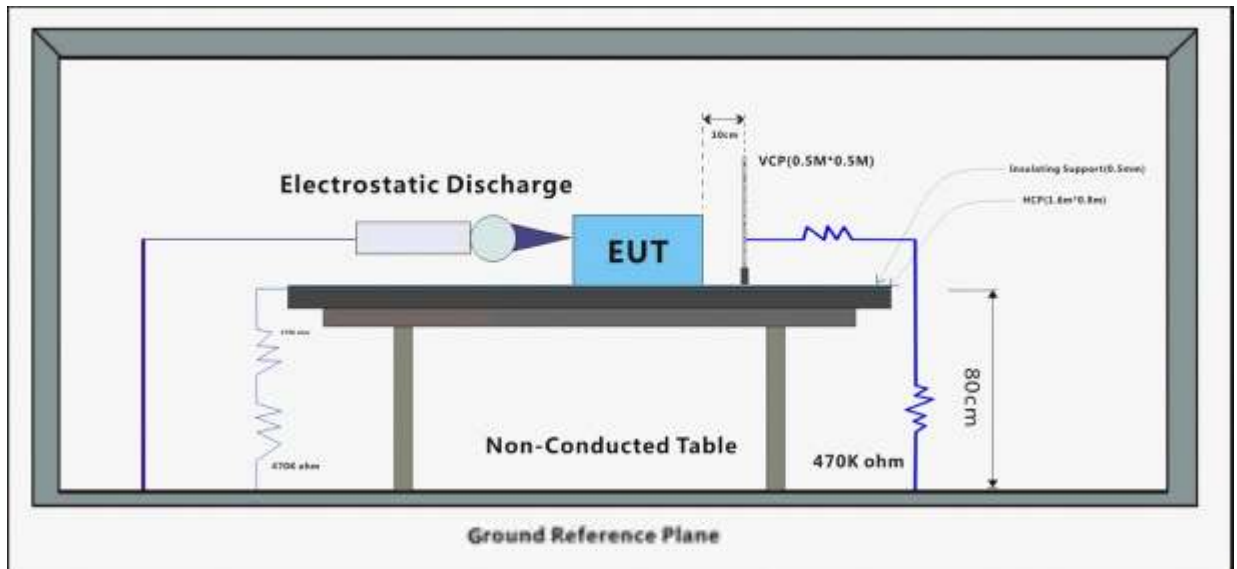
7.2 Electrostatic Discharge

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-2:2009
 Performance Criterion: B
 Discharge Impedance: 330Ω/150pF
 Number of Discharge: Minimum 10 times at each test point
 Discharge Mode: Single Discharge
 Discharge Period: 1 second minimum

7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 27 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar
 a: Test EUT in motor running mode by BO supply.
 Test Mode: b: Test the EUT in battery charging mode.
 c: Test the EUT in idle mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results:

Observations: Test Point:

Test points:

1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All side

| 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 | A |
| Horizontal Coupling | 4 | - | 3 | A |
| Vertical Coupling | 4 | + | 3 | A |
| Vertical Coupling | 4 | - | 3 | A |

Results:

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



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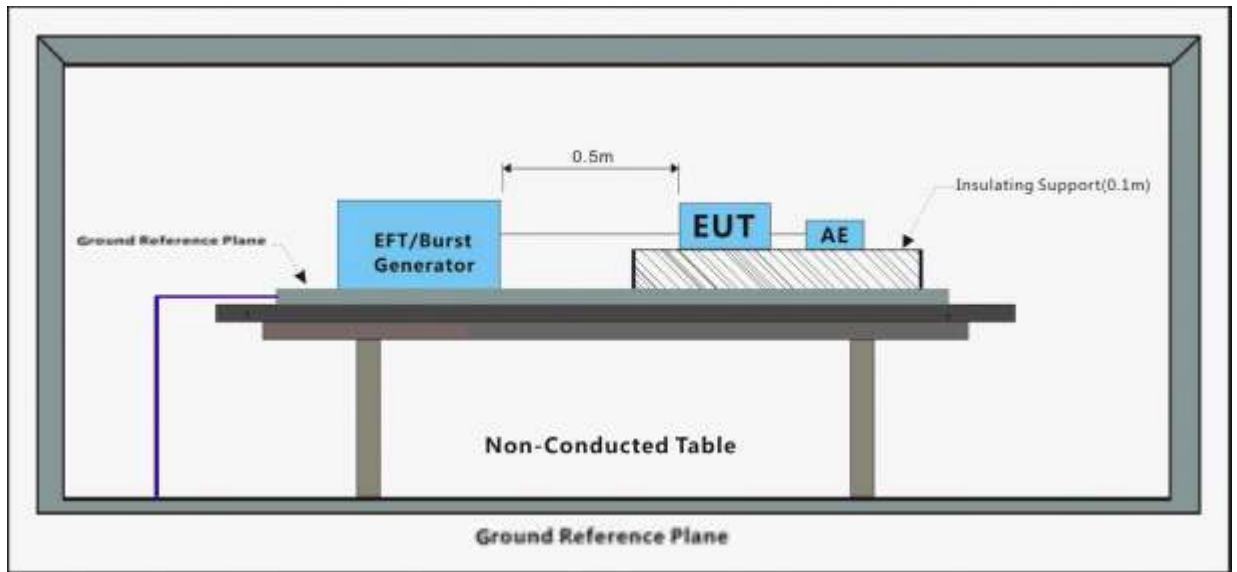
7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 29 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 b: Test the EUT in battery charging mode.
 c: Test the EUT in idle mode.

7.3.2 Test Setup Diagram



7.3.3 Test Results:

| Test Line | Level (kV) | Polarity | Direct/Coupling | Result / Observations |
|---------------|------------|----------|-----------------|-----------------------|
| AC power port | 1 | + | Direct | A |
| AC power port | 1 | - | Direct | A |

Results:

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



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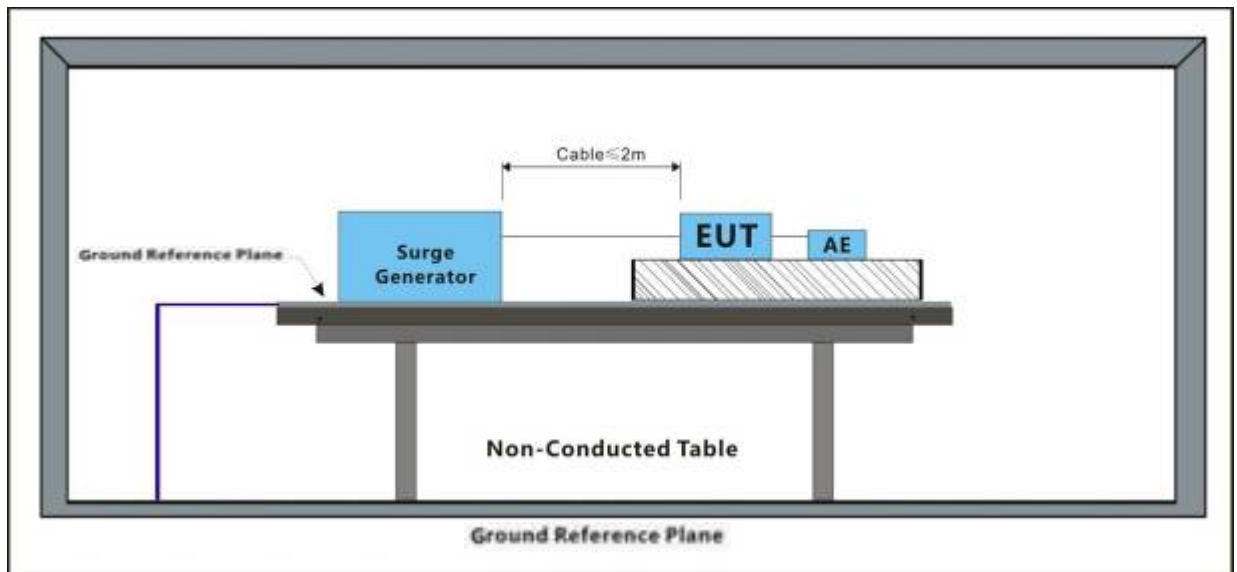
7.4 Surge at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-5:2014
 Performance Criterion: B
 Interval: 60s between each surge
 No. of surges: 5 positive at 90°, 5 negative at 270°.

7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 b: Test the EUT in battery charging mode.
 c: Test the EUT in idle mode.

7.4.2 Test Setup Diagram



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7.4.3 Test Results:

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

Results:

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

N/A: Not applicable (not required by standard).



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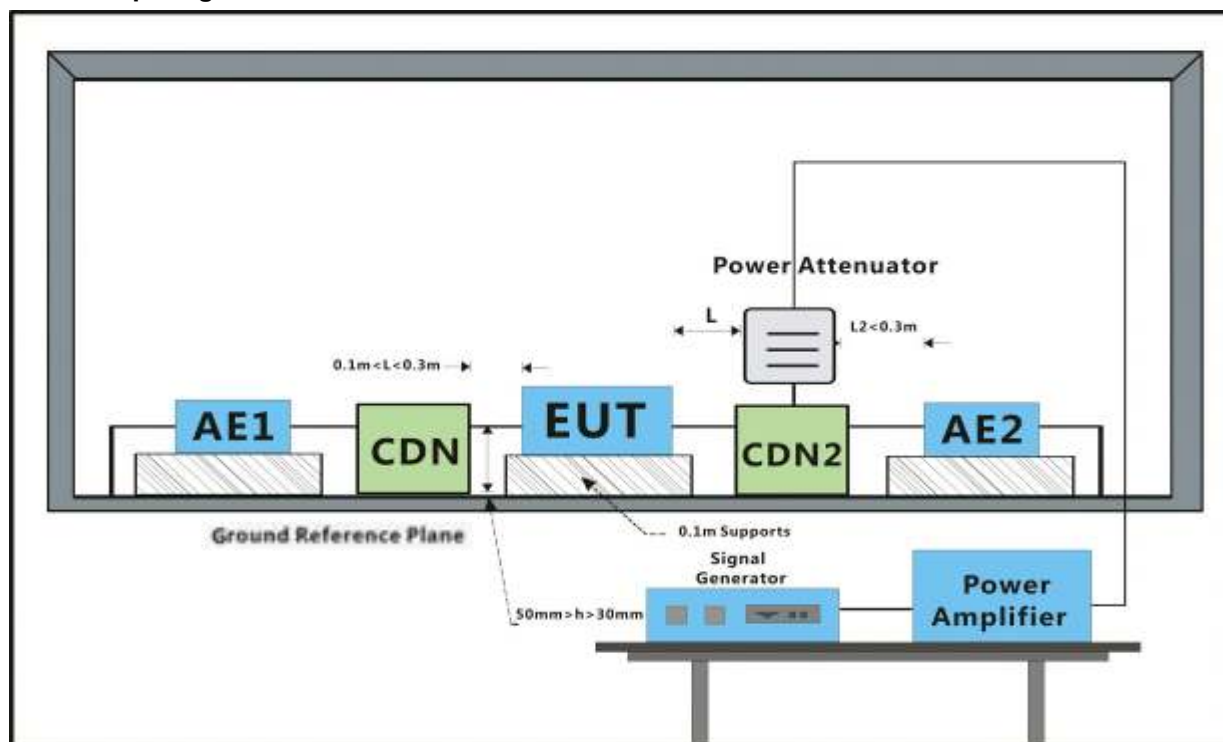
7.5 Conducted Immunity at Power Port (150kHz-230MHz)

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 230MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size: 1%

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 28 °C Humidity: 46 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 b: Test the EUT in battery charging mode.
 c: Test the EUT in idle mode.

7.5.2 Test Setup Diagram



7.5.3 Test Results:

| Cable port | Level (Vrms) | Direct/Coupling | Dwell time | Result / Observations |
|---------------|--------------|-----------------|------------|-----------------------|
| AC power port | 3 | Direct | 2s | A |

Results:

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



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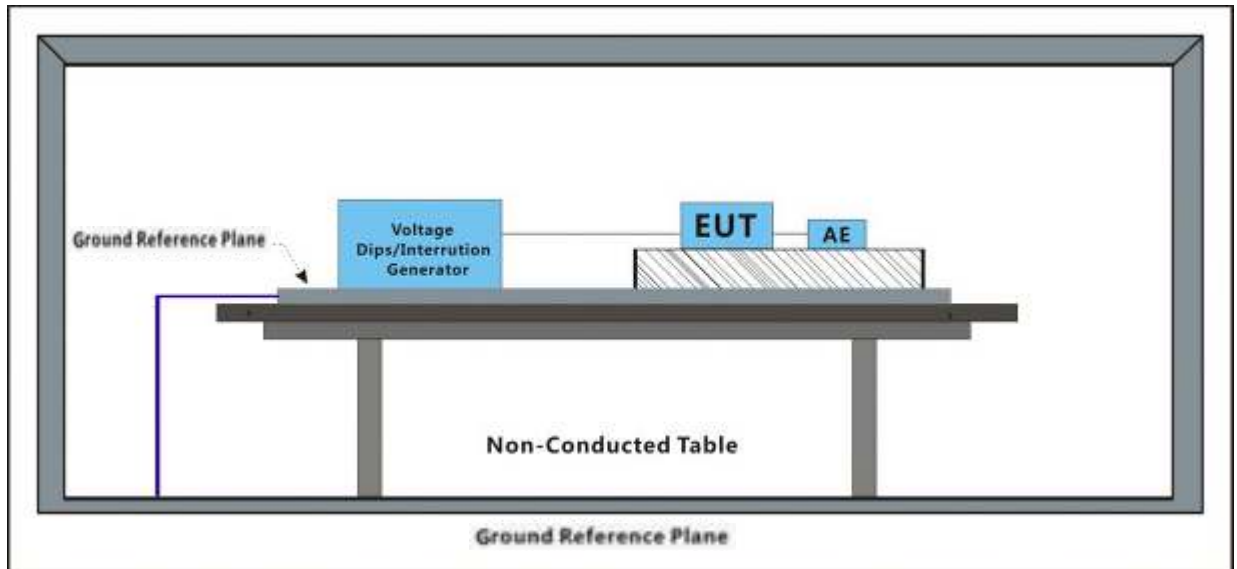
7.6 Voltage Dips and Interruptions

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-11:2004
 Performance Criterion:
 For 50Hz 0% of UT (Supply Voltage) for 0.5 Periods: C;
 40% of UT for 10 Periods: C;
 70% of UT for 25 Periods: C
 For 60Hz 0% of UT (Supply Voltage) for 0.5 Periods: C;
 40% of UT for 12 Periods: C;
 70% of UT for 30 Periods: C
 No. of Dips / Interruptions: 3 per Level
 Time between dropout 10s

7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 28 °C Humidity: 46 % RH Atmospheric Pressure: 1020 mbar
 Test Mode: b: Test the EUT in battery charging mode.
 c: Test the EUT in idle mode.

7.6.2 Test Setup Diagram



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7.6.3 Test Results:

For 50Hz

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

Results:

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

For 60Hz

| Level % UT | Phase (deg) | Duration | No. of Dips / Interruptions | Result / Observations |
|------------|-------------|-------------|-----------------------------|-----------------------|
| 0 | 0° | 0.5 Periods | 3 | A |
| 0 | 180° | 0.5 Periods | 3 | A |
| 40 | 0° | 12 Periods | 3 | A |
| 40 | 180° | 12 Periods | 3 | A |
| 70 | 0° | 30 Periods | 3 | A |
| 70 | 180° | 30 Periods | 3 | A |

Results:

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



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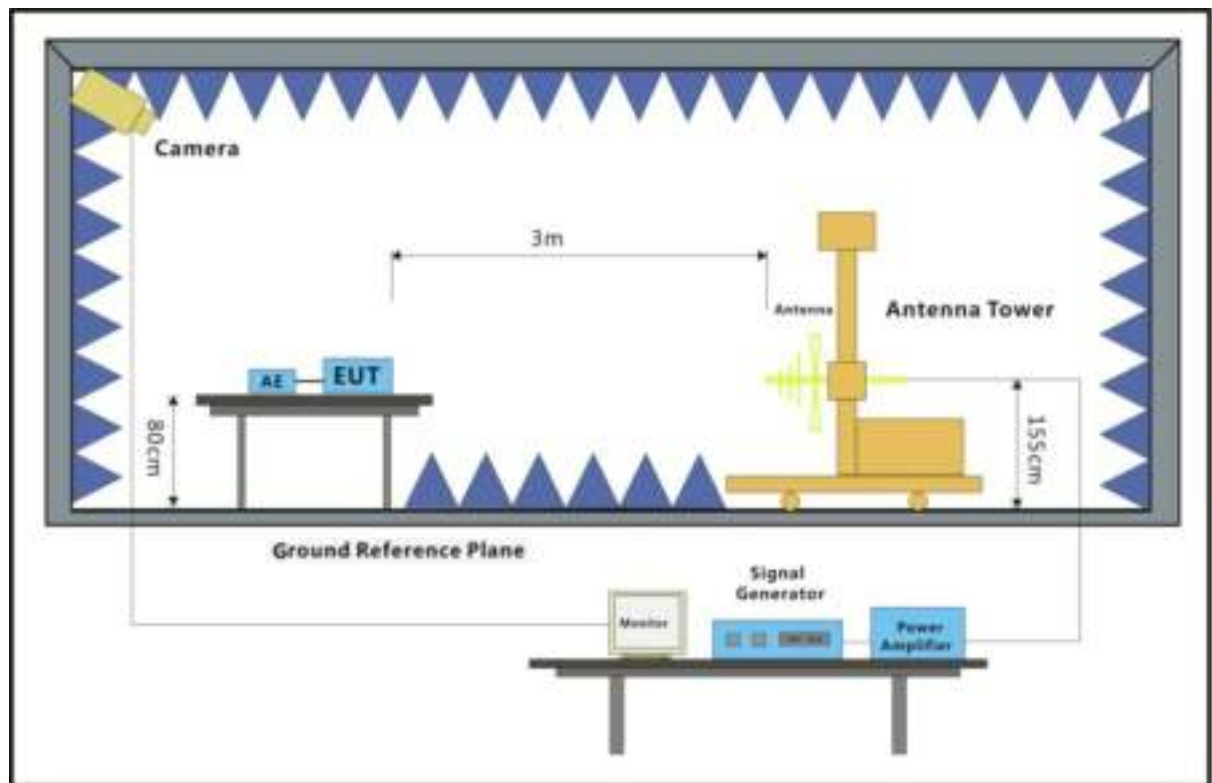
7.7 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010
 Performance Criterion: A
 Frequency Range: 80MHz to 1GHz
 Antenna Polarisation: Vertical and Horizontal
 Modulation: 1kHz,80% Amp. Mod,1% increment

7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 a: Test EUT in motor running mode by BO supply.
 c: Test the EUT in idle mode.

7.7.2 Test Setup Diagram



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7.7.3 Test Results:

| Frequency | Level (V/m) | EUT Face | Dwell time | Result / Observations |
|------------|-------------|-----------|------------|-----------------------|
| 80MHz-1GHz | 3 | Front | 2s | A |
| 80MHz-1GHz | 3 | Back | 2s | A |
| 80MHz-1GHz | 3 | Left | 2s | A |
| 80MHz-1GHz | 3 | Right | 2s | A |
| 80MHz-1GHz | 3 | Top | 2s | A |
| 80MHz-1GHz | 3 | Underside | 2s | A |

Results:

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



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8 Photographs

8.1 EUT Constructional Details



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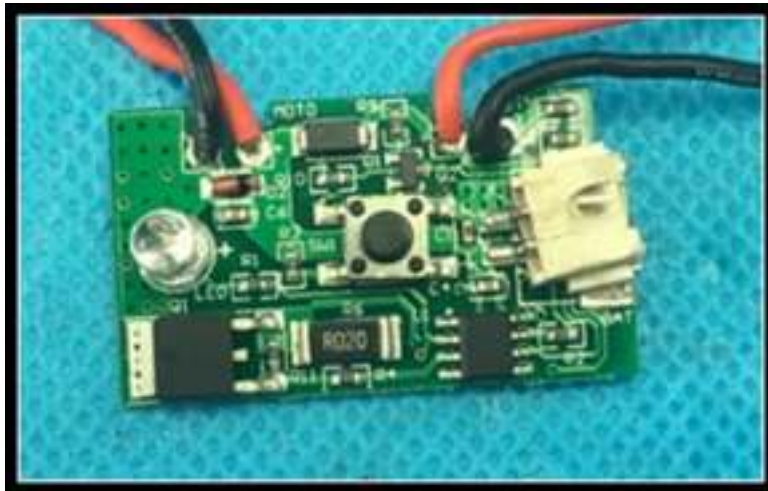
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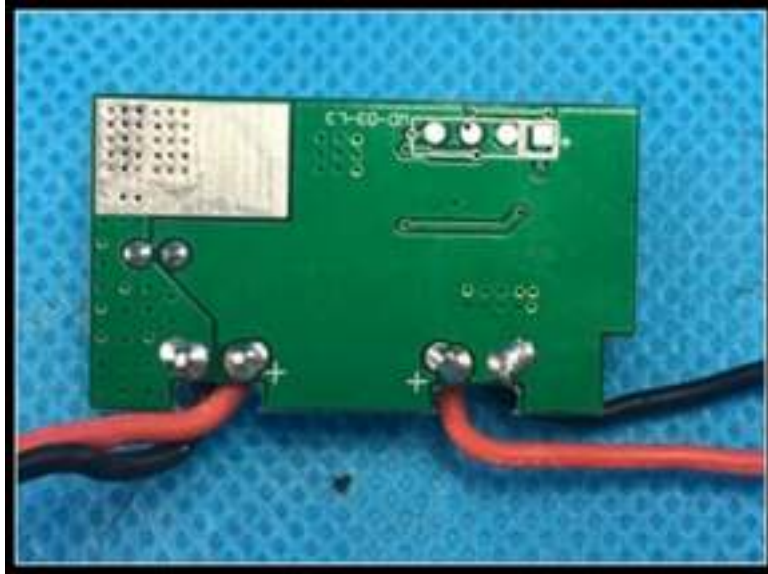


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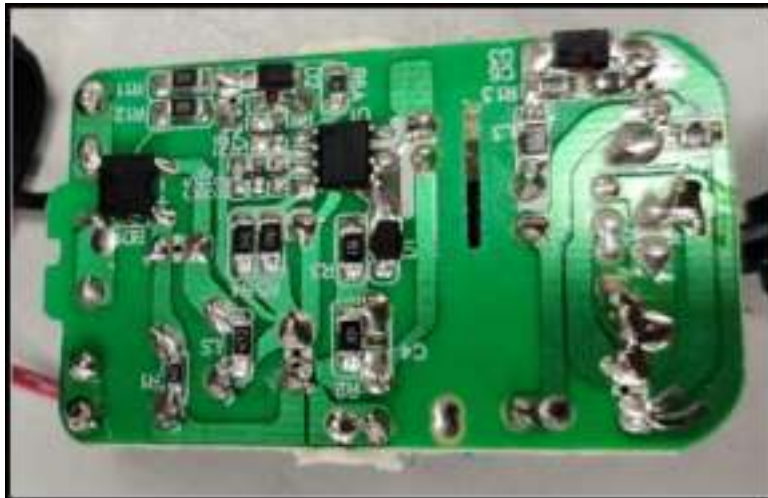


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