

TEST REPORT

Job No.: THEM2307000063RF
Applicant: Skypoint Hospitality and Technology Co.,Ltd.
Address of Applicant: 99/380 Chokchai Village 7,Moo 5 Soi boonsamphan, Nongprue, Banglamung, Chonburi 20150, Thailand
Manufacturer: Skypoint Hospitality and Technology Co.,Ltd.
Address of Manufacturer: 99/380 Chokchai Village 7,Moo 5 Soi boonsamphan, Nongprue Banglamung, Chonburi 20150, Thailand
Factory: Skypoint Hospitality and Technology Co.,Ltd.
Address of Factory: 99/380 Chokchai Village 7,Moo 5 Soi boonsamphan, Nongprue Banglamung, Chonburi 20150, Thailand

Equipment Under Test (EUT)

Name: Ozone Water Machine
Model: AURO₃RA 6
Trademark / Brand: AURO₃RA 6
Standard(s): EN IEC 61000-6-4:2019
EN IEC 61000-6-2:2019
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021

Date of Receipt: 14-July-2023
Date of Test: 15-July-2023 to 18-July-2023
Date of Issue: 20-Jul-2023
Test Result: Pass *

* In the configuration tested, the equipment under test complied with the standards specified above.



Arnon To-anun
EMC Laboratory Section Head



The manufacturer should be ensuring that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01	-	20-Jul-2023	-	Original

Authorized for issue by		20-Jul-2023
	Thothip T. / Project Engineer	Date (DD-MMM-YYYY)
		20-Jul-2023
	Arnon T. / Reviewer	Date (DD-MMM-YYYY)

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2 Test Summary

Emission Part				
Test Item	Test Standard	Test Method	Test Requirement	Result
Conducted Emissions	EN IEC 61000-6-4 :2019	EN 55016-2-1:2014+A1:2017	Table 4 – Requirements for conducted emissions – low voltage AC mains port	Pass
Radiated Emissions	EN IEC 61000-6-4 :2019	EN 55016-2-3:2017+A1:2019	Table 3 – Requirements for radiated emissions – enclosure port	Pass
Harmonic Current Emissions	EN IEC 61000-3-2:2019+A1:2021	EN IEC 61000-3-2:2019+A1:2021	Table 1 - Limits for Class A equipment	Pass
Voltage Changes, Voltage Fluctuations and Flicker	EN 61000-3-3:2013+A1:2019+A2:2021	EN 61000-3-3:2013+A1:2019+A2:2021	Clause 5 Limits	Pass
Immunity Part				
Test Item	Test Standard	Test Method	Test Requirement	Result
Electrostatic Discharge	EN IEC 61000-6-2:2019	EN 61000-4-2:2009	8 kV air discharge 4 kV contact discharge	Pass
Radio Frequency Electromagnetic Fields	EN IEC 61000-6-2:2019	EN IEC 61000-4-3:2020	80 MHz - 1000 MHz 10 V/m (r.m.s.) (unmodulated) 1000 MHz - 6000 MHz 3 V/m (r.m.s.) (unmodulated)	Pass
Fast transients	EN IEC 61000-6-2:2019	EN 61000-4-4:2012	2 kV (peak) 5/50 ns Tr/Td 5 kHz repetition frequency	Pass
Surges	EN IEC 61000-6-2:2019	EN 61000-4-5:2014	1.2/50 (8/20) μ s Tr/Td 2 kV line to earth with 12 Ω Impedance 1 kV line to line with 2 Ω Impedance	Pass
Injected currents	EN IEC 61000-6-2:2019	EN 61000-4-6:2014	150 kHz - 80 MHz 3 V(r.m.s.) (unmodulated) 150 Ω source impedance	Pass
Voltage Dips and Voltage Interruptions	EN IEC 61000-6-2:2019	EN IEC 61000-4-11:2020	Volt Dips 0% UT = 1 cycles 40% UT = 10 70% UT = 25 interruption 0 % = 250 cycles	Pass
Power frequency magnetic field	EN IEC 61000-6-2:2019	EN 61000-4-8:2010	30 A/m, 50 Hz	Pass
Remark: -				

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4 General Information

4.1 Details of Equipment Under Test

Power Supply: Power Adapter Model: PC-120050
 INPUT: AC 100-240V~1.5A 50/60 Hz, OUTPUT: DC 12V (5A)

Test Voltage: 230 VAC / 50 Hz

Clock Frequency: Less than 108 MHz

Cable: AC input about 1.20 m. x 3 wires input plug.
 DC Output about 1.12 m to equipment under test

4.2 Description of Support Units

The equipment under test has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission / Click Rate	±3.06 dB (9 kHz - 150 kHz)
		±2.35 dB (150 kHz - 30 MHz)
2	Radiated Emissions	±4.30 dB (30 MHz - 200 MHz) Horizontal
		±4.50 dB (30 MHz - 200 MHz) Vertical
		±4.74 dB (200 MHz - 1 GHz) Horizontal
		±4.69 dB (200 MHz - 1 GHz) Vertical
		±5.70 dB (1 GHz - 6 GHz)
		±5.76 (6 GHz - 18 GHz)
3	Harmonic Current Emissions	±5.07 %
4	Voltage Changes, Voltage Fluctuations and Flicker	±4.94 %
5	Electrostatic Discharge	±15.00 %
6	Radio Frequency Electromagnetic Fields	±2.19 dB
7	Fast Transients	±6.20 %
8	Surges	±8.60 %
9	Injected Currents	±3.19 dB
10	Voltage Dips	±2.50 %
11	Power frequency magnetic field immunity Test (PFM)	±0.64 mV
12	Temperature	±0.36°C
13	Humidity	±2.3%

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

According to decision rule based on clause 4.2 of CISPR 16-4-2, the equipment under test complied with the standards specified above.

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4.4 Test Location

Test(s) were performed at:

SGS (Thailand) Limited.

700 / 693 Moo7, Don Hua Roh Sub-District, Mueang Chonburi District, Chonburi 20000, Thailand.

Phone: +66(0)33 266 165, Fax: +66(0)33 266 166

Test(s) were subcontracted at:

None

4.5 Test Facility

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

Thai Industrial Standards Institute (TISI)

SGS (Thailand) Limited has been accepted by Thai Industrial Standards Institute (TISI) executive, on the recommendation of the accreditation advisory board, as a Thai Industrial Standards Institute (TISI) accredited laboratory, this laboratory meets the requirements of ISO/IEC 17025:2017 and it has been accredited for performing specific test as listed in the scope of accreditation within the test category of electrical and electronic products.

GCC Accreditation Center (GAC). (Accreditation No. ATL 0097)

SGS (Thailand) Limited is accredited by the GCC Accreditation Center (GAC) in accordance with the recognized International standard ISO/IEC 17025:2017: "General requirements for the competence of testing and calibration laboratories". This organization is accredited to provide the services specified in the scope of accreditation maintained on the GAC website www.gcc-accreditation.org

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 Monitoring of Equipment Under Test for All Immunity Test

Visual: Monitoring LED of equipment under test.

Audio: Abnormal sound of equipment under test.

Other: Malfunction of equipment under test.

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5 Equipment List

Conducted Emissions Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
E2019001	EMI TEST RECEIVER	Rohde & Schwarz	ESR3	24-Feb-2023	23-Feb-2024
P2019002	PULSE LIMITER	Rohde & Schwarz	ESH3-Z2	21-Feb-2023	20-Feb-2024
T2019008	TWO-LINE-V-NETWORK	Rohde & Schwarz	ENV216	30-Jun-2023	29-Jun-2024

Radiated Emission					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
E2019001	EMI TEST RECEIVER	Rohde & Schwarz	ESR3	24-Feb-2023	23-Feb-2024
D2023001	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	Rohde & Schwarz	HF907	15-Sep-2022	14-Sep-2023
B2023002	BROADBAND COAXIAL PREAMPLIFIER	Schwarzbeck	BBV9718D	02-Mar-2023	01-Mar-2024
B2023003	BROADBAND HORN ANTENNA	Schwarzbeck	BBHA9170	20-Feb-2023	19-Feb-2024
B2023004	BROADBAND ANTENNA	Schwarzbeck	VULB9162	07-Feb-2023	06-Feb-2024
B2023005	BROADBAND ANTENNA	Schwarzbeck	VULB9162	02-Feb-2023	01-Feb-2024
S2023001	SIGNAL AND SPECTRUM ANALYZER	Rohde & Schwarz	FSV3044	11-Oct-2022	10-Oct-2023

Harmonic Current Emissions Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
H2020023	HARMONICS AND FLICKER ANALYZER	Ametek	DPA 503N	06-Sep-2022	05-Sep-2023

Voltage Changes, Voltage Fluctuations and Flicker Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
F2020005	FLICKER IMPEDANCES	Ametek	AIF 503N63.1	06-Sep-2022	05-Sep-2023
H2020023	HARMONICS AND FLICKER ANALYZER	Ametek	DPA 503N	06-Sep-2022	05-Sep-2023

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Electrostatic Discharge Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
E2019002	ESD SIMULATOR	Teseq	NSG 437	06-Dec-2022	05-Dec-2023

Radio Frequency Electromagnetic Fields Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
A2023003	AVERAGE POWER SENSOR	Rohde & Schwarz	NRP6A	07-Oct-2022	06-Oct-2023
A2023004	AVERAGE POWER SENSOR	Rohde & Schwarz	NRP6A	08-Oct-2022	07-Oct-2023
B2023006	BROADBAND AMPLIFIER	Rohde & Schwarz	BBA150-BC250	08-Oct-2022	07-Oct-2023
B2023007	BROADBAND AMPLIFIER	Rohde & Schwarz	BBA150-D60E60	08-Oct-2022	07-Oct-2023
D2023002	DOUBLE RIDGED BROADBAND HORN ANTENNA	Rohde & Schwarz	BBHA9120E	08-Oct-2022	07-Oct-2023
E2023001	E-FIELD PROBE	Rohde & Schwarz	LSPROBE	10-Oct-2022	09-Oct-2023
V2023001	VECTOR SIGNAL GENERATOR	Rohde & Schwarz	SMCV100B	07-Oct-2022	06-Oct-2023

Fast Transients Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
M2019004	MULTI-FUNCTION GENERATOR	Teseq	NSG 3040	08-May-2023	07-Nov-2023
C2020002	COUPLING/DECOUPLING NETWORK SURGE/BURST	Teseq	CDN 3043-C32.1	08-May-2023	07-Nov-2023

Surges Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
M2019004	MULTI-FUNCTION GENERATOR	Teseq	NSG 3040	08-May-2023	07-Nov-2023
C2020002	COUPLING/DECOUPLING NETWORK SURGE/BURST	Teseq	CDN 3043-C32.1	08-May-2023	07-Nov-2023

Injected Currents Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
C2019005	COMPACT IMMUNITY TEST SYSTEM	Teseq	NSG4070C-35	18-Apr-2023	17-Oct-2023
C2019006	COUPLING DECOUPLING NETWORK	Teseq	CDN M016	03-Mar-2023	02-Mar-2024
R2019003	RF ATTENUATORS	Teseq	100-A-FFN-06	03-Mar-2023	02-Mar-2024

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Voltage Dips and Voltage Interruptions Test					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
P2020013	POWER FAIL SIMULATOR	Ametek cts	PFS 503N32	02-Aug-2022	01-Aug-2023
T2020042	TAPPED TRANSFORMER	Ametek	V3P4016DS	03-Aug-2022	02-Aug-2023

Power frequency magnetic field immunity Test (PFM)					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
S2023003	SGS MAGNETIC COIL	-	-	14-Jun-2023	13-Jun-2024

General Use Equipment					
Equipment Code	Equipment Name	Manufacturer	Model	Last Calibration	Next Calibration
D2022002	DATA LOGGER	Lascar	EL-SIE-6+	02-Dec-2022	01-Dec-2023
D2022003	DATA LOGGER	Lascar	EL-SIE-6+	02-Dec-2022	01-Dec-2023

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6 Emission Test Results

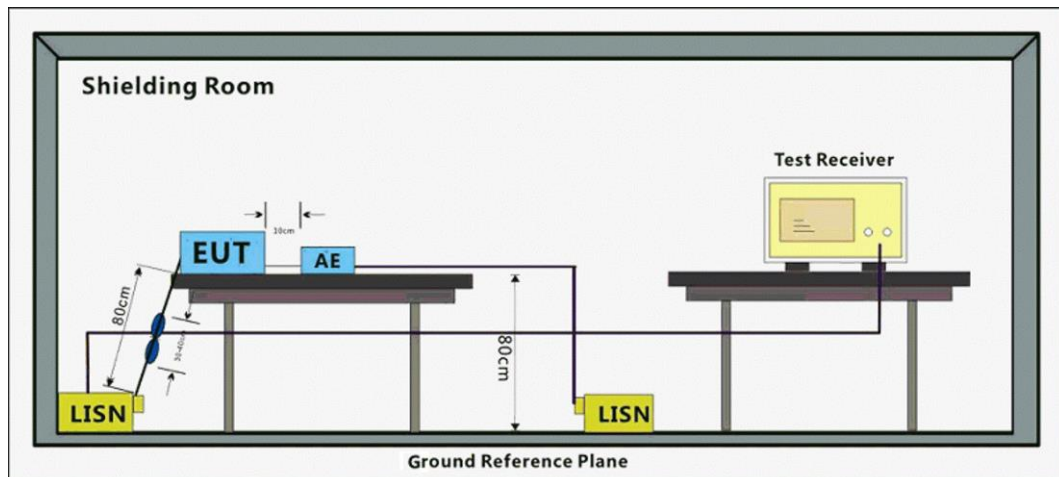
6.1 Conducted Emissions Test

Test Requirement:	EN IEC 61000-6-4:2019
Test Method:	EN 55016-2-1:2014+A1:2017
Frequency Range:	150 kHz - 30 MHz
Limit:	
	150 kHz - 500 kHz 79 dB(μV) quasi-peak, 66 dB(μV) average
	500 kHz - 30 MHz 73 dB(μV) quasi-peak, 60 dB(μV) average
Detector:	Quasi-peak or average for pre-scan (9 kHz RBW) 150 kHz - 30 MHz
Remark:	RBW = resolution bandwidth.

6.1.1 Equipment Under Test Operation

Operating Environment:			
Ambient Temperature 24.3 °C	Relative Humidity 52.6 %	Atmospheric Pressure 1008.3 mbar	
Operation Mode:			
The Equipment shall be operated continuously with turn-on mode.			

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

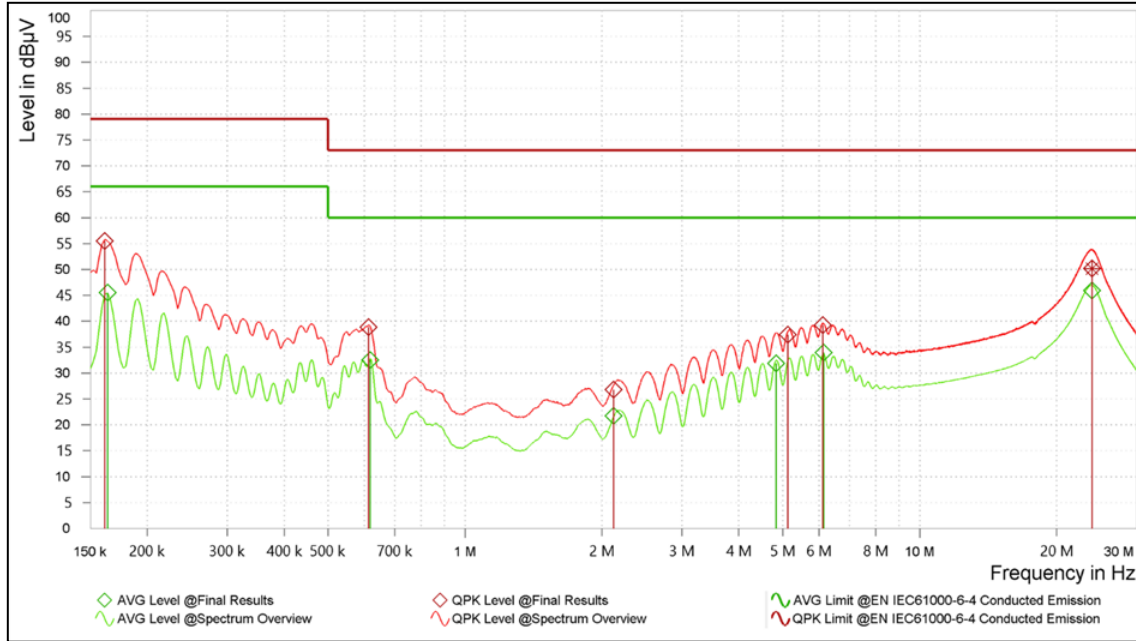
An initial pre-scan was performed with quasi-peak or average detector. Quasi-peak or average measurement were performed at the frequencies with maximized peak emission were detected.

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Line: Line



Final Results

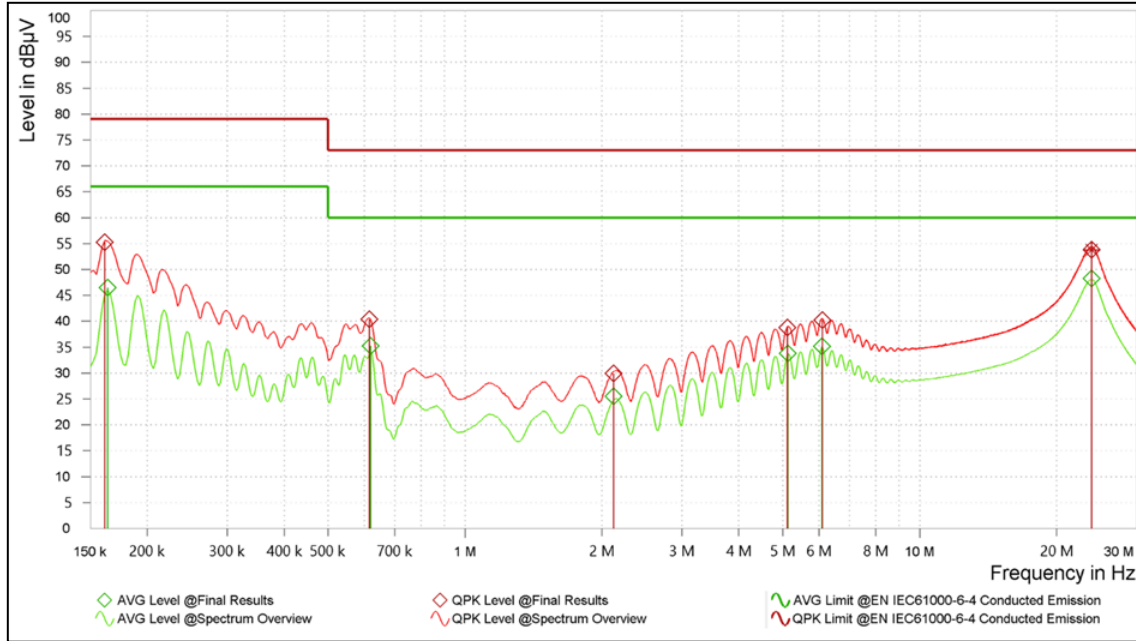
Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line
0.161	55.45	79.00	23.55				19.53	L
0.164				45.49	66.00	20.51	19.53	L
0.614	38.81	73.00	34.19				19.61	L
0.618				32.51	60.00	27.49	19.61	L
2.121	26.74	73.00	46.26	21.68	60.00	38.32	19.84	L
4.835				31.82	60.00	28.18	20.00	L
5.127	37.41	73.00	35.59				20.01	L
6.122	39.24	73.00	33.76				20.03	L
6.146				33.92	60.00	26.08	20.03	L
23.937				45.93	60.00	14.07	20.38	L
23.955	50.19	73.00	22.81				20.38	L

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Line: N


Final Results

Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line
0.161	55.21	79.00	23.79				19.53	N
0.164				46.50	66.00	19.50	19.53	N
0.616	40.38	73.00	32.62				19.61	N
0.620				35.21	60.00	24.79	19.61	N
2.121	29.91	73.00	43.09	25.47	60.00	34.53	19.84	N
5.120	38.74	73.00	34.26				20.01	N
5.129				33.76	60.00	26.24	20.01	N
6.092				35.09	60.00	24.91	20.03	N
6.104	40.18	73.00	32.82				20.03	N
23.892				48.23	60.00	11.77	20.49	N
23.901	53.78	73.00	19.22				20.49	N

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6.2 Radiated Emissions Test

Test Requirement:	EN IEC 61000-6-4:2019
Test Method:	EN 55016-2-3:2017+A1:2019
Frequency Range:	30 MHz - 1 GHz
Limit:	
	30 MHz - 230 MHz 50 dB ($\mu\text{V/m}$) quasi-peak
	230 MHz - 1 GHz 57 dB ($\mu\text{V/m}$) quasi-peak
Detector:	Peak for pre-scan (120 kHz RBW) 30 MHz - 1 GHz
Remark:	RBW = resolution bandwidth.

6.2.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 24.3 °C

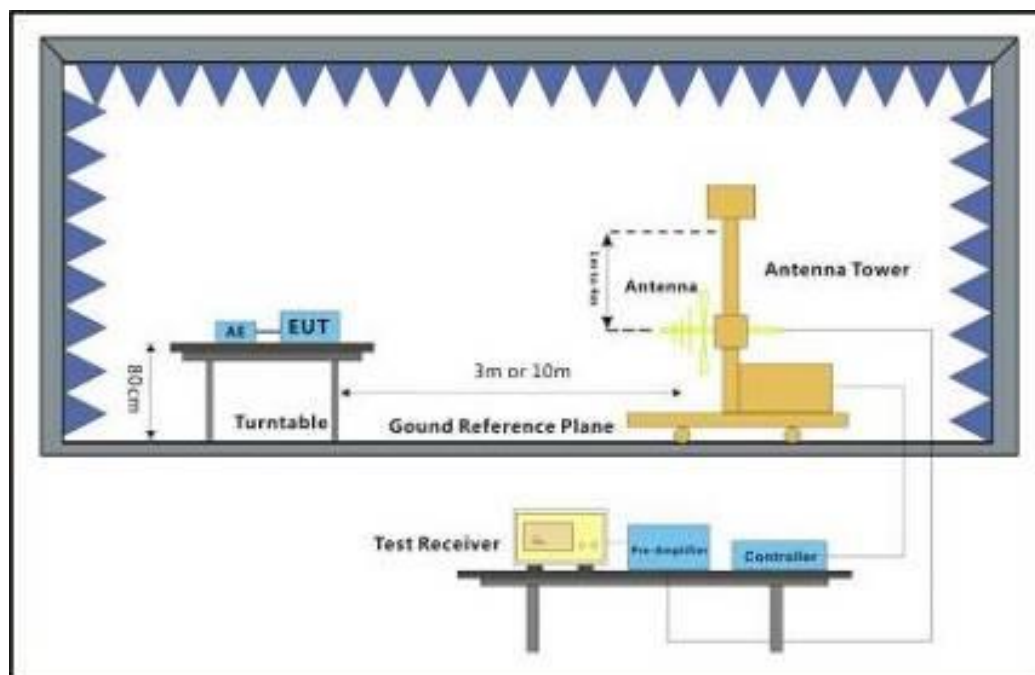
Relative Humidity 52.6 %

Atmospheric Pressure 1008.3 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

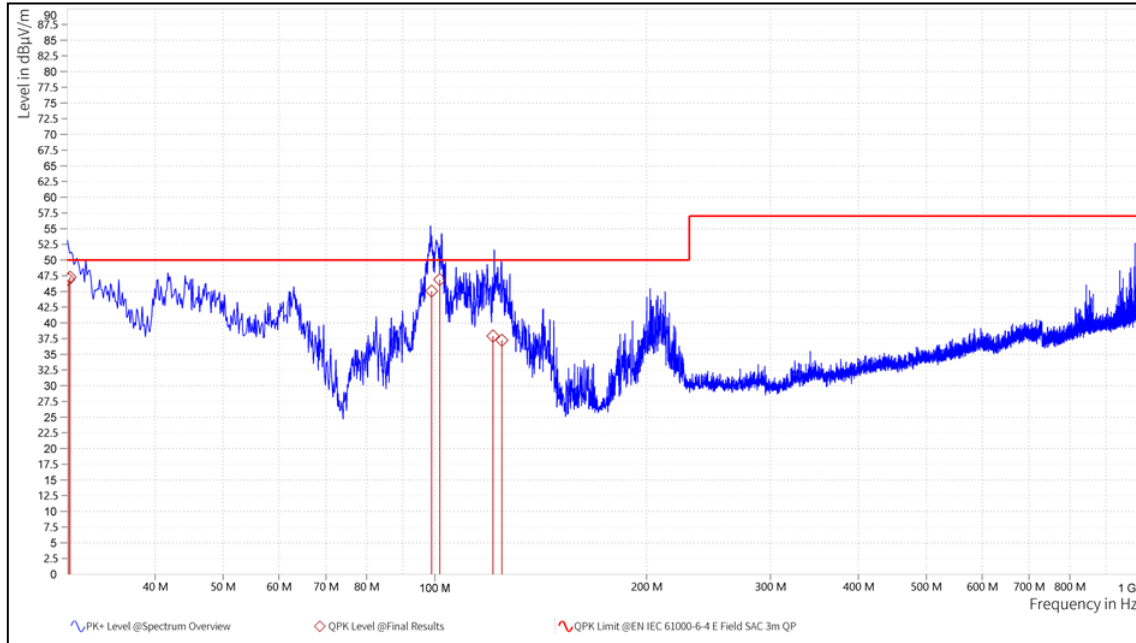
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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Polarization: Vertical



Final Results

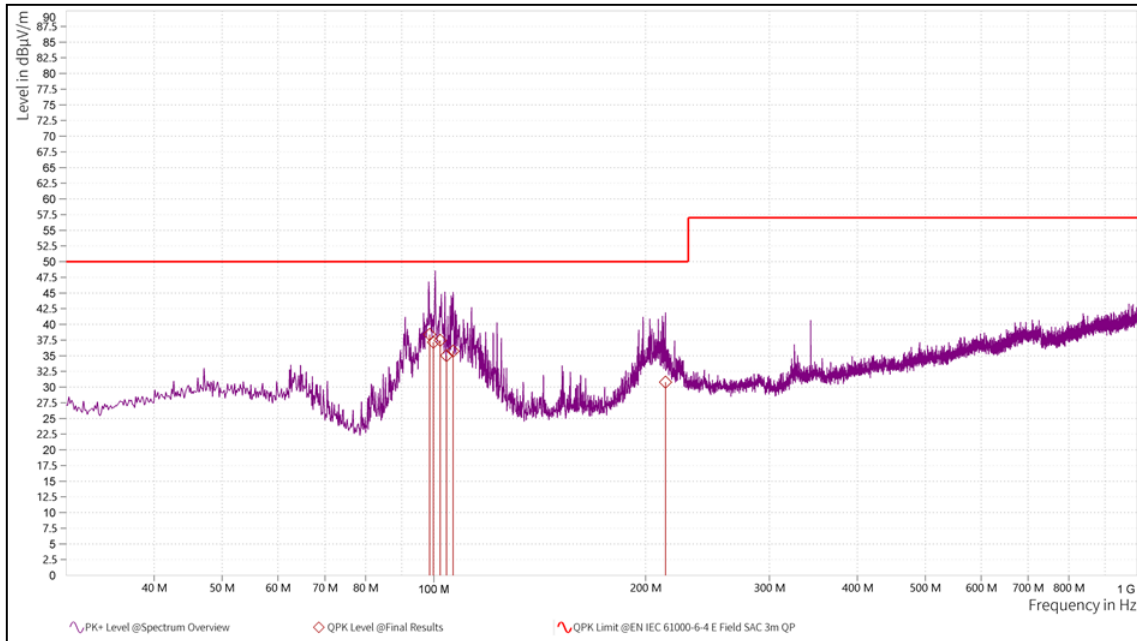
Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
30.132	46.88	50.00	3.12	20.08	V	152.6	1
30.288	47.25	50.00	2.75	20.03	V	97.1	1
98.898	45.06	50.00	4.94	21.81	V	40.6	1.226
101.623	46.91	50.00	3.09	22.00	V	360	1
121.008	37.90	50.00	12.10	19.44	V	134.6	1.037
124.594	37.22	50.00	12.78	18.96	V	59.5	1.262

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Polarization: Horizontal



Final Results

Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
98.592	38.39	50.00	11.61	21.79	H	59	2.5
99.872	37.15	50.00	12.85	21.94	H	60	2.536
102.085	37.45	50.00	12.55	22.01	H	59.5	2.725
104.209	35.03	50.00	14.97	21.94	H	78.5	2.5
106.522	35.73	50.00	14.27	21.73	H	60	2.5
213.540	30.80	50.00	19.20	20.96	H	22	1.5

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6.3 Harmonic Current Emissions Test

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

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

6.3.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 23.3 °C

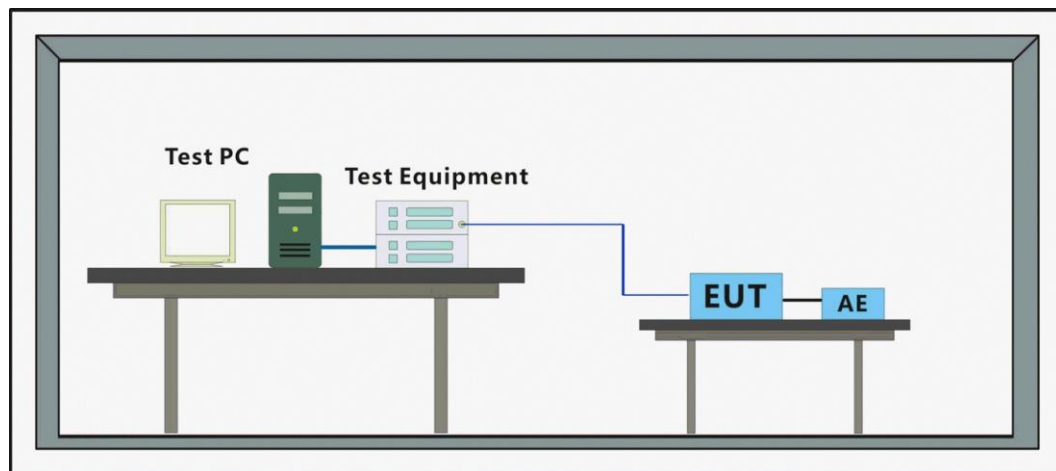
Relative Humidity 54.3 %

Atmospheric Pressure 1009.8 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

6.3.2 Test Setup Diagram



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6.3.3 Measurement Data

Standard Specific Results for EN IEC 61000-3-2

Standard Group:	Industry
Standard Name:	EN IEC 61000-3-2
	Limits for harmonic current emissions (equipment input current < 16 A per phase)
Device Under Test:	PASS
Power Source:	PASS
Connection Type:	L - N
Classification:	Class A
Appli. of Limits:	less than or equal to 150 % (Without POHC Enhancement)
Test Duration:	10 min

Check Harmonics 2..40	
<i>First detected harmonic order > 150 %</i>	
Line 1:	None
<i>Harmonics orders > 150 %</i>	
Line 1:	None
<i>Harmonics orders with average > 100 %</i>	
Line 1:	None

Measured values	
<i>Fundamental Current</i>	
Line 1:	0.109 A
<i>Active input Power</i>	
Line 1:	19.818 W *
<i>Circuit power factor</i>	
Line 1:	0.398 *

* Absolute value.

Prerequisite for simplified method fulfilled	
<i>First time window with THD(I) > 15 %</i>	
Line 1:	None
<i>Time window with max THD(I) > 15 %</i>	
Line 1:	None
<i>Current emission below 60 % of the applicable limits</i>	
Line 1:	Yes
<i>Active Input Power</i>	
Line 1:	20 W *

* Absolute value.

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Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [A]	of Limit [%]	Limit [A]	Result	I _{eff} [A]	of Limit [%]	Limit [A]	Result	
1	0.106				0.109				
2	0.002	0.151	1.080	n/a	0.002	0.137	1.620	n/a	n/a
3	0.087	3.793	2.300	PASS	0.093	2.685	3.450	PASS	PASS
4	0.002	0.374	0.430	n/a	0.002	0.313	0.645	n/a	n/a
5	0.083	7.314	1.140	PASS	0.087	5.063	1.710	PASS	PASS
6	0.001	0.356	0.300	n/a	0.001	0.325	0.450	n/a	n/a
7	0.077	9.997	0.770	PASS	0.079	6.800	1.155	PASS	PASS
8	0.001	0.492	0.230	n/a	0.001	0.428	0.345	n/a	n/a
9	0.069	17.375	0.400	PASS	0.071	11.872	0.600	PASS	PASS
10	0.001	0.622	0.184	n/a	0.001	0.513	0.276	n/a	n/a
11	0.061	18.455	0.330	PASS	0.063	12.652	0.495	PASS	PASS
12	0.001	0.566	0.153	n/a	0.001	0.505	0.230	n/a	n/a
13	0.051	24.323	0.210	PASS	0.053	16.829	0.315	PASS	PASS
14	0.001	0.679	0.131	n/a	0.001	0.588	0.197	n/a	n/a
15	0.042	27.741	0.150	PASS	0.044	19.556	0.225	PASS	PASS
16	0.001	0.602	0.115	n/a	0.001	0.554	0.173	n/a	n/a
17	0.032	24.370	0.132	PASS	0.035	17.392	0.199	PASS	PASS
18	0.001	0.601	0.102	n/a	0.001	0.548	0.153	n/a	n/a
19	0.024	19.912	0.118	PASS	0.026	14.478	0.178	PASS	PASS
20	0.000	0.484	0.092	n/a	0.001	0.489	0.138	n/a	n/a
21	0.016	14.607	0.107	PASS	0.018	11.000	0.161	PASS	PASS
22	0.000	0.498	0.084	n/a	0.001	0.503	0.125	n/a	n/a
23	0.010	9.740	0.098	PASS	0.011	7.682	0.147	PASS	PASS
24	0.000	0.533	0.077	n/a	0.001	0.534	0.115	n/a	n/a
25	0.006	6.491	0.090	PASS	0.007	5.151	0.135	PASS	PASS

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26	0.000	0.550	0.071	n/a	0.001	0.540	0.106	n/a	n/a
27	0.005	6.399	0.083	PASS	0.006	4.708	0.125	PASS	PASS
28	0.000	0.671	0.066	n/a	0.001	0.650	0.099	n/a	n/a
29	0.007	8.807	0.078	PASS	0.008	6.498	0.116	PASS	PASS
30	0.000	0.729	0.061	n/a	0.001	0.714	0.092	n/a	n/a
31	0.008	10.677	0.073	PASS	0.008	7.435	0.109	PASS	PASS
32	0.000	0.841	0.058	n/a	0.001	0.753	0.086	n/a	n/a
33	0.008	11.484	0.068	PASS	0.008	7.963	0.102	PASS	PASS
34	0.000	0.909	0.054	n/a	0.001	0.822	0.081	n/a	n/a
35	0.007	11.308	0.064	PASS	0.008	8.036	0.096	PASS	PASS
36	0.000	0.897	0.051	n/a	0.001	0.828	0.077	n/a	n/a
37	0.006	10.322	0.061	PASS	0.007	7.682	0.091	PASS	PASS
38	0.000	0.844	0.048	n/a	0.001	0.780	0.073	n/a	n/a
39	0.005	8.176	0.058	n/a	0.006	6.526	0.087	PASS	PASS
40	0.000	0.728	0.046	n/a	0.000	0.688	0.069	n/a	n/a

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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Voltage Source Verification

Harmonic voltage results				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	231.174	100.510		
2	0.032	0.014	0.200	PASS
3	0.053	0.023	0.900	PASS
4	0.042	0.018	0.200	PASS
5	0.098	0.043	0.400	PASS
6	0.022	0.009	0.200	PASS
7	0.027	0.012	0.300	PASS
8	0.020	0.009	0.200	PASS
9	0.040	0.018	0.200	PASS
10	0.015	0.006	0.200	PASS
11	0.049	0.021	0.100	PASS
12	0.023	0.010	0.100	PASS
13	0.036	0.016	0.100	PASS
14	0.025	0.011	0.100	PASS
15	0.029	0.012	0.100	PASS
16	0.019	0.008	0.100	PASS
17	0.014	0.006	0.100	PASS
18	0.011	0.005	0.100	PASS
19	0.058	0.025	0.100	PASS
20	0.011	0.005	0.100	PASS
21	0.006	0.003	0.100	PASS
22	0.011	0.005	0.100	PASS
23	0.040	0.017	0.100	PASS
24	0.007	0.003	0.100	PASS
25	0.022	0.010	0.100	PASS
26	0.012	0.005	0.100	PASS
27	0.023	0.010	0.100	PASS

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28	0.008	0.003	0.100	PASS
29	0.029	0.013	0.100	PASS
30	0.007	0.003	0.100	PASS
31	0.011	0.005	0.100	PASS
32	0.010	0.004	0.100	PASS
33	0.023	0.010	0.100	PASS
34	0.006	0.003	0.100	PASS
35	0.011	0.005	0.100	PASS
36	0.009	0.004	0.100	PASS
37	0.027	0.012	0.100	PASS
38	0.012	0.005	0.100	PASS
39	0.017	0.007	0.100	PASS
40	0.008	0.003	0.100	PASS

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Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
Frequency		50 Hz
Voltage RMS		231.2 V
Current RMS		0.2227 A
Peak Current		0.8957 A
Fundamental Current		0.1099 A
Current Crest Factor		4.075
Active Power P		20.19 W
Power Factor		0.4042
Total Harmonic Current (THC)		-
Partial Odd Harmonic Current (POHC)		0.02845 A
Total Harmonic Distortion Current (THDC)		-
<i>Average Values</i>		
Total Harmonic Current (THC)		-
Partial Odd Harmonic Current (POHC)		0.02613 A
Total Harmonic Distortion Current (THDC)		-

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Maximum Harmonics

Maximum Harmonics (Line 1)

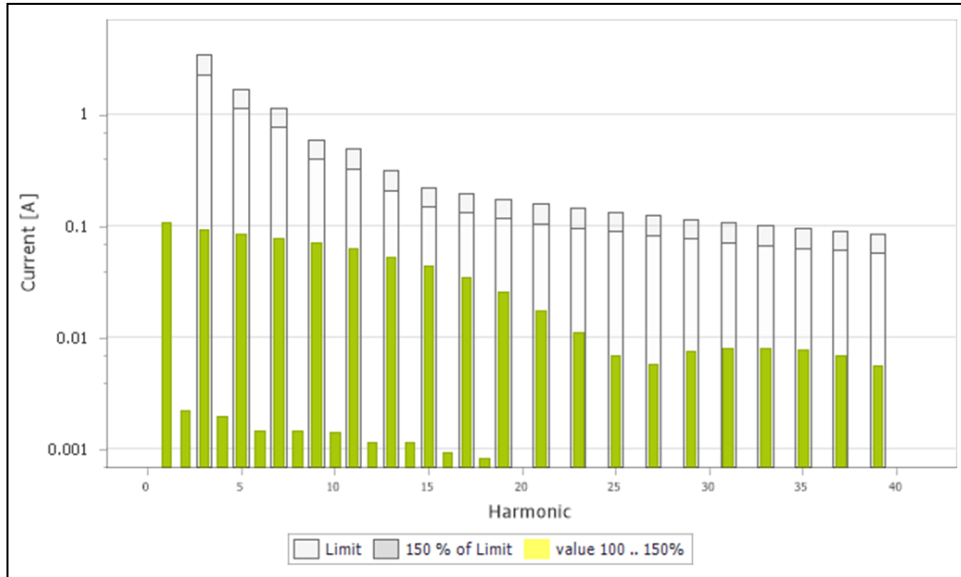
Hn	Frequency [Hz]	Current				
		eff [A]	eff[%]	of Limit [%]	Limit [A]	Time Window
1	50.0	0.109	100.00	-	-	3701
2	100.0	0.002	2.04	0.14	1.62	2794
3	150.0	0.093	85.28	2.69	3.45	1533
4	200.0	0.002	1.86	0.31	0.65	2714
5	250.0	0.087	79.70	5.06	1.71	1532
6	300.0	0.001	1.35	0.32	0.45	2739
7	350.0	0.079	72.30	6.80	1.16	3598
8	400.0	0.001	1.36	0.43	0.35	3669
9	450.0	0.071	65.58	11.87	0.60	3591
10	500.0	0.001	1.30	0.51	0.28	3224
11	550.0	0.063	57.65	12.65	0.50	3583
12	600.0	0.001	1.07	0.50	0.23	2483
13	650.0	0.053	48.80	16.83	0.32	3586
14	700.0	0.001	1.07	0.59	0.20	3355
15	750.0	0.044	40.51	19.56	0.23	3591
16	800.0	0.001	0.88	0.55	0.17	2718
17	850.0	0.035	31.79	17.39	0.20	3592
18	900.0	0.001	0.77	0.55	0.15	2529
19	950.0	0.026	23.68	14.48	0.18	3607
20	1000.0	0.001	0.62	0.49	0.14	3584
21	1050.0	0.018	16.27	11.00	0.16	3679
22	1100.0	0.001	0.58	0.50	0.13	580
23	1150.0	0.011	10.38	7.68	0.15	3677
24	1200.0	0.001	0.57	0.53	0.12	3364
25	1250.0	0.007	6.40	5.15	0.14	3469
26	1300.0	0.001	0.53	0.54	0.11	2690
27	1350.0	0.006	5.42	4.71	0.13	6
28	1400.0	0.001	0.59	0.65	0.10	1968
29	1450.0	0.008	6.96	6.50	0.12	107
30	1500.0	0.001	0.61	0.71	0.09	1670
31	1550.0	0.008	7.45	7.44	0.11	842
32	1600.0	0.001	0.60	0.75	0.09	3139
33	1650.0	0.008	7.50	7.96	0.10	3643
34	1700.0	0.001	0.61	0.82	0.08	1631
35	1750.0	0.008	7.13	8.04	0.10	3343

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36	1800.0	0.001	0.58	0.83	0.08	2860
37	1850.0	0.007	6.45	7.68	0.09	3678
38	1900.0	0.001	0.52	0.78	0.07	2827
39	1950.0	0.006	5.20	6.53	0.09	3564
40	2000.0	0.000	0.44	0.69	0.07	1181



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Average Harmonics

Average Harmonics (Line 1)

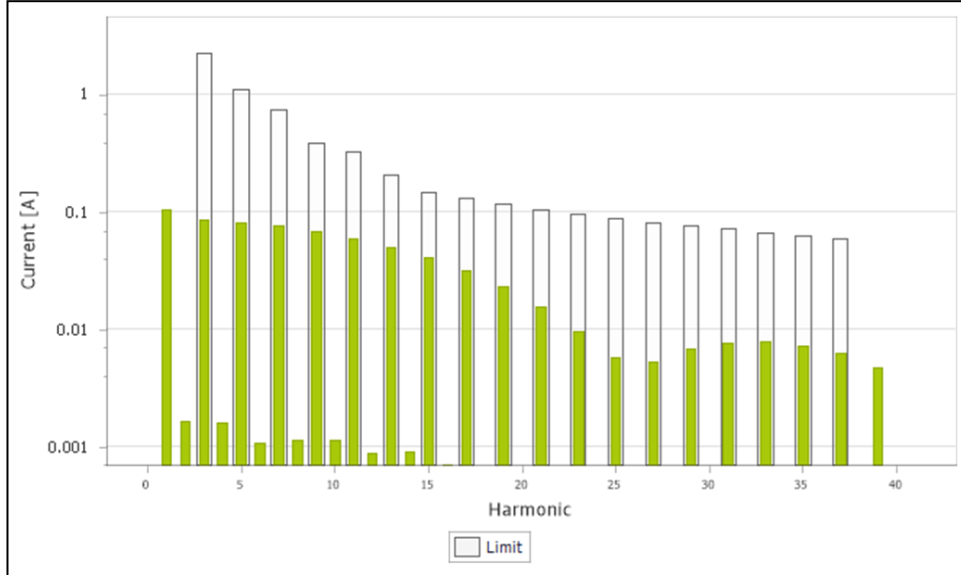
Hn	Frequency [Hz]	Current			
		eff [A]	eff[%]	of Limit [%]	Limit [A]
1	50.0	0.106	97.32	-	-
2	100.0	0.002	1.50	0.15	1.08
3	150.0	0.087	80.33	3.79	2.30
4	200.0	0.002	1.48	0.37	0.43
5	250.0	0.083	76.77	7.31	1.14
6	300.0	0.001	0.98	0.36	0.30
7	350.0	0.077	70.87	10.00	0.77
8	400.0	0.001	1.04	0.49	0.23
9	450.0	0.070	63.98	17.38	0.40
10	500.0	0.001	1.05	0.62	0.18
11	550.0	0.061	56.07	18.46	0.33
12	600.0	0.001	0.80	0.57	0.15
13	650.0	0.051	47.03	24.33	0.21
14	700.0	0.001	0.82	0.68	0.13
15	750.0	0.042	38.32	27.75	0.15
16	800.0	0.001	0.64	0.60	0.12
17	850.0	0.032	29.71	24.38	0.13
18	900.0	0.001	0.57	0.60	0.10
19	950.0	0.024	21.72	19.92	0.12
20	1000.0	0.000	0.41	0.48	0.09
21	1050.0	0.016	14.42	14.62	0.11
22	1100.0	0.000	0.38	0.50	0.08
23	1150.0	0.010	8.78	9.75	0.10
24	1200.0	0.000	0.38	0.53	0.08
25	1250.0	0.006	5.38	6.50	0.09
26	1300.0	0.000	0.36	0.55	0.07
27	1350.0	0.005	4.91	6.40	0.08
28	1400.0	0.000	0.41	0.67	0.07
29	1450.0	0.007	6.29	8.80	0.08
30	1500.0	0.000	0.41	0.73	0.06
31	1550.0	0.008	7.13	10.68	0.07
32	1600.0	0.000	0.44	0.84	0.06
33	1650.0	0.008	7.21	11.48	0.07
34	1700.0	0.000	0.45	0.91	0.05
35	1750.0	0.007	6.69	11.31	0.06

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36	1800.0	0.000	0.42	0.90	0.05
37	1850.0	0.006	5.78	10.33	0.06
38	1900.0	0.000	0.38	0.84	0.05
39	1950.0	0.005	4.35	8.18	0.06
40	2000.0	0.000	0.31	0.73	0.05



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6.4 Voltage Fluctuations and Flicker Test

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

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

6.4.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 23.3 °C

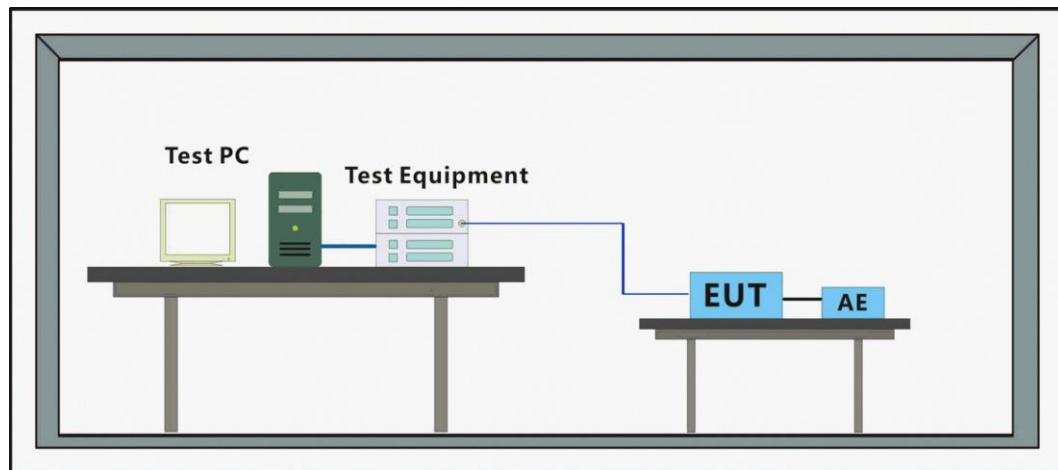
Relative Humidity 54.7 %

Atmospheric Pressure 1007.8 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

Flicker Results

Standard Specific Results for EN 61000-3-3

Standard Group:	Industry
Standard Name:	EN 61000-3-3 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:	General Test Conditions
Analysis Status:	PASS

Flicker Measurements Settings

Main line:	230V, 50Hz
Flicker Meter:	230V / 50Hz
Flicker Impedance:	Zref
Observation Time:	12 × 10 min
Measurements done:	12

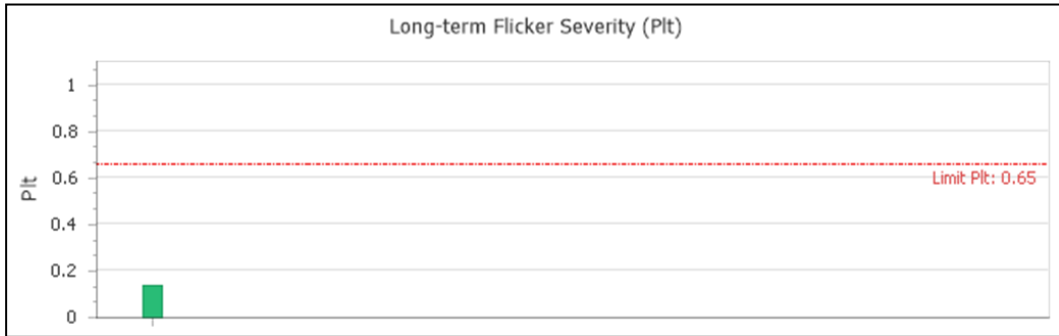
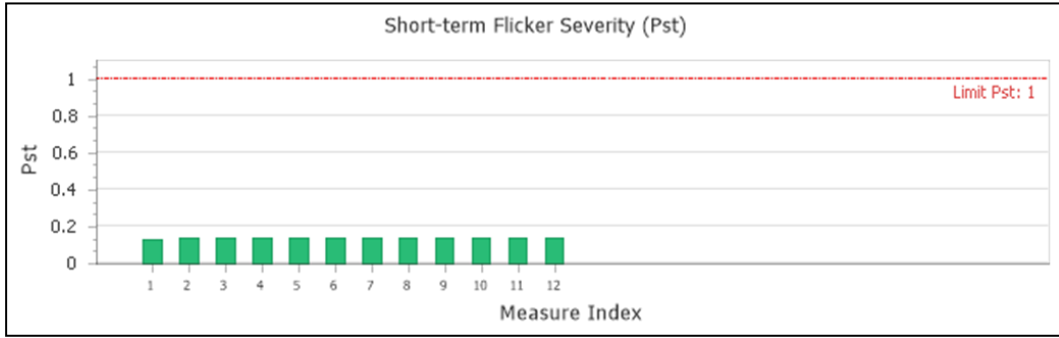
Flicker Measurements

	Last V_{rms} [V]	P_{It}	Max P_{st}	Max D_c [%]	Max D_{max} [%]	Max T_{max} [s]
Line 1:	231.211	0.136	0.137	0	< 0.2	0
Limits:		0.65	1	3.3	4	0.5
Results:		PASS	PASS	PASS	PASS	PASS

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7 Immunity Test Results

Performance Criteria Description of EN IEC 61000-6-2.

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

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7.1 Electrostatic Discharge Test

Test Requirement:	EN IEC 61000-6-2:2019		
Test Method:	EN 61000-4-2:2009		
Criterion Required:	B		
Discharge Impedance:	330 Ω / 150 pF		
Discharge Voltage:	Air Discharge	8 kV	
	Contact Discharge	4 kV	
	Vertical Coupling Plane	4 kV	
Number of Discharge:	Minimum 10 times at each test point		
Discharge Mode:	Single Discharge		
Discharge Period:	1 second minimum		

7.1.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 25.8 °C

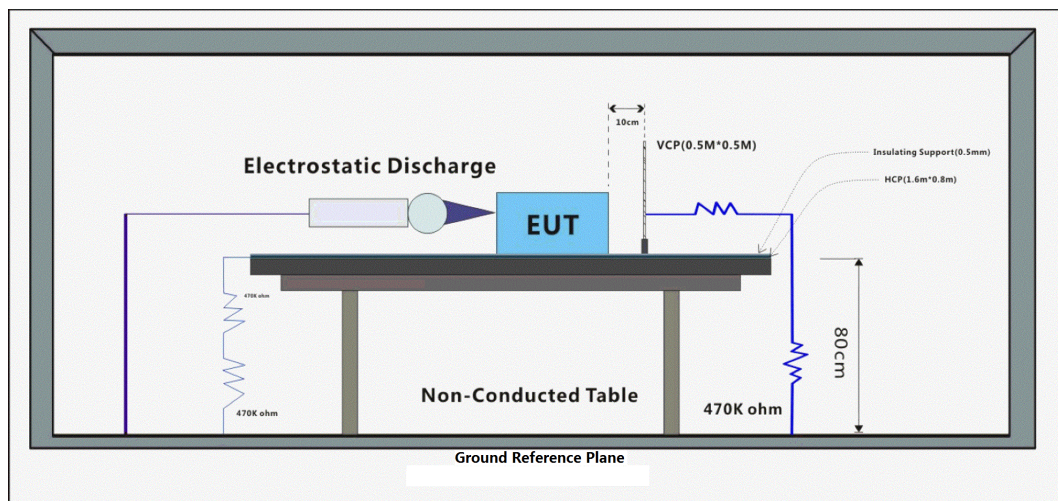
Relative Humidity 55.0 %

Atmospheric Pressure 1008.3 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

7.1.2 Test Setup Diagram



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7.1.3 Test Results

Operation Mode: Standby

Discharge Type	Level	Polarity	Test Point	Results (Performance Criteria)
Air Discharge	8 kV	+	1	A
Air Discharge	8 kV	-	1	A
Contact Discharge	4 kV	+	2	A
Contact Discharge	4 kV	-	2	A
Vertical Coupling Plane	4 kV	+	3	A
Vertical Coupling Plane	4 kV	-	3	A

Operation Mode: On

Discharge Type	Level	Polarity	Test Point	Results (Performance Criteria)
Air Discharge	8 kV	+	1	A
Air Discharge	8 kV	-	1	A
Contact Discharge	4 kV	+	2	A
Contact Discharge	4 kV	-	2	A
Vertical Coupling Plane	4 kV	+	3	A
Vertical Coupling Plane	4 kV	-	3	A

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

Remark:

Test Point:

1 = All insulated enclosure & seams.

2 = All accessible metal parts of the enclosure.

3 = All side.

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7.2 Radio Frequency Electromagnetic Fields Test

Test Requirement:	EN IEC 61000-6-2:2019
Test Method:	EN IEC 61000-4-3:2020
Criterion Required:	A
Test Level:	Frequency 80 MHz - 1000 MHz : 10 V/m Frequency 1000 MHz - 6000 MHz : 3 V/m
Antenna Distance:	3 m
Antenna Polarity:	Vertical & Horizontal
Modulation:	-
Remark:	-

7.2.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 25.3 °C

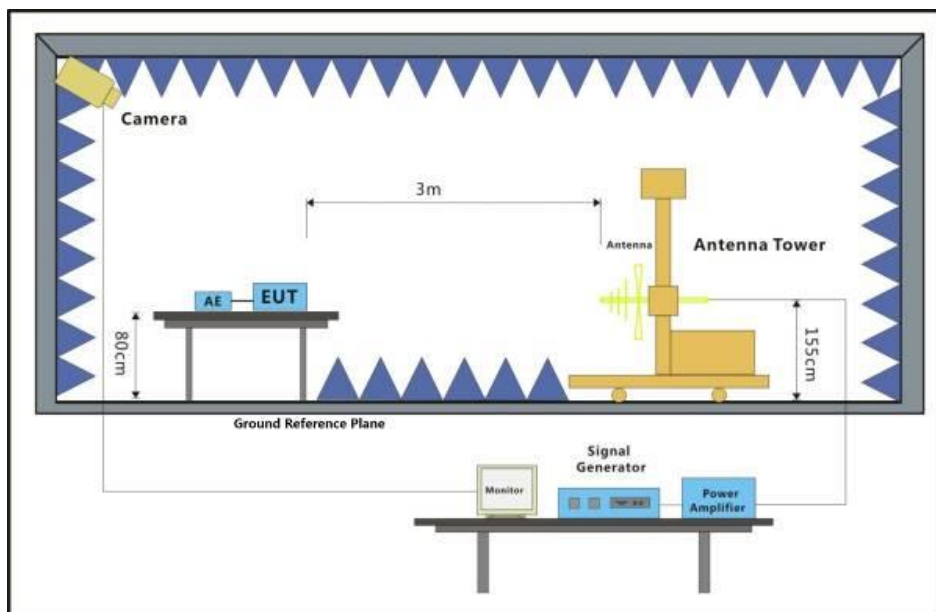
Relative Humidity 55.4 %

Atmospheric Pressure 1008.6 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results

Operation Mode: Standby

Frequency Range	Test Level	Step Size	Dwell Time	Results (Performance Criteria)
80.0 MHz – 1.0 GHz	10 V/m	1%	1s	A
1.0 GHz – 6.0 GHz	3 V/m	1%	1s	A

Operation Mode: On

Frequency Range	Test Level	Step Size	Dwell Time	Results (Performance Criteria)
80.0 MHz – 1.0 GHz	10 V/m	1%	1s	A
1.0 GHz – 6.0 GHz	3 V/m	1%	1s	A

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

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7.3 Fast Transients Test

Test Requirement: EN IEC 61000-6-2:2019
 Test Method: EN 61000-4-4:2012
 Criterion Required: B
 Test Level: 2.0 kV
 Repetition Frequency: 5 kHz
 Burst Duration: 300 ms

7.3.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 25.3 °C

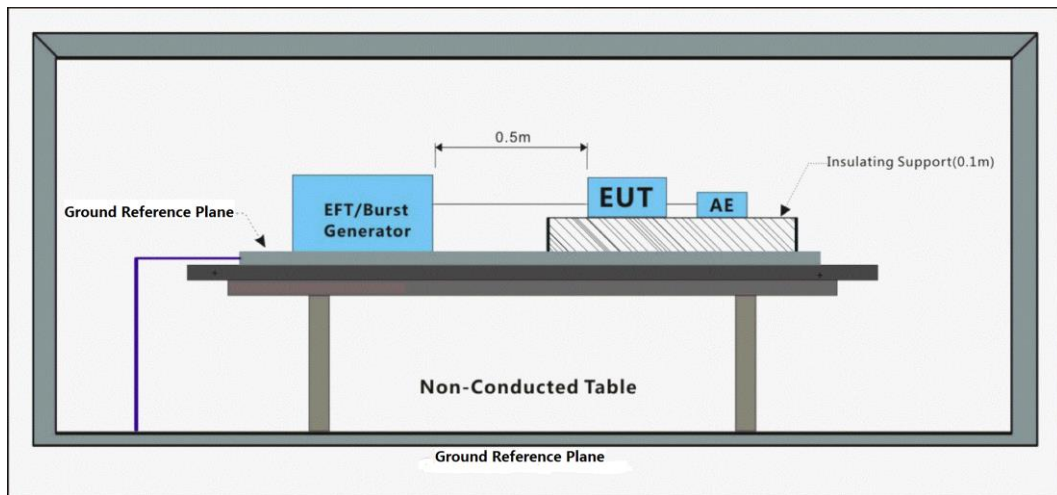
Relative Humidity 55.4 %

Atmospheric Pressure 1009.1 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

7.3.2 Test Setup Diagram



7.3.3 Test Results

Operation Mode: Standby

Line Under Test	Level	Polarity	Coupling	Results (Performance Criteria)
A.C. Mains Ports	2.0 kV	±	CDN	A

Operation Mode: On

Line Under Test	Level	Polarity	Coupling	Results (Performance Criteria)
A.C. Mains Ports	2.0 kV	±	CDN	A

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

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7.4 Surges Test

Test Requirement:	EN IEC 61000-6-2:2019
Test Method:	EN 61000-4-5:2014
Criterion Required:	B
Test Level:	1 kV Line to Neutral with 2 Ω Impedance 2 kV Line to Earth and Neutral to Earth with 12 Ω Impedance
Surge Interval:	60 second between each surge
No. of Surges:	5 positive at 90° and 5 negative at 270°

7.4.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 26.5 °C

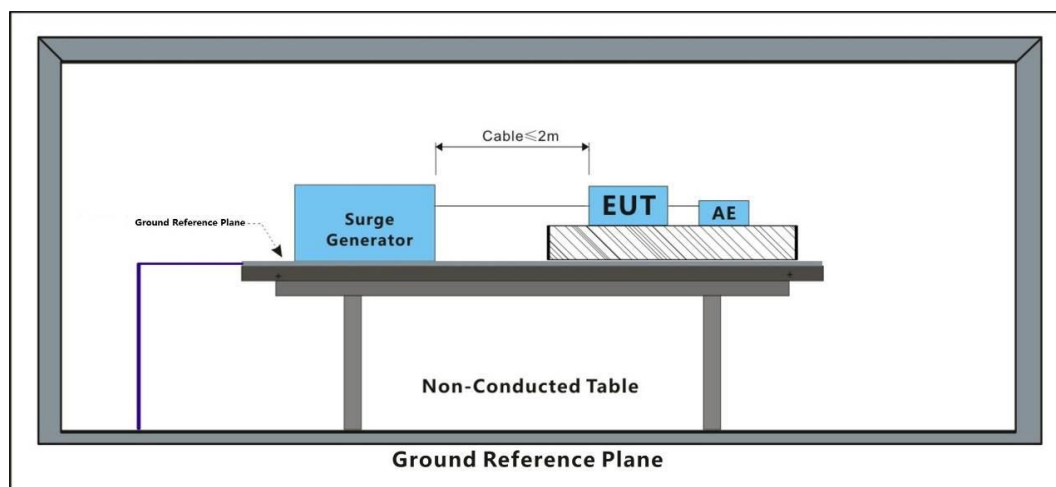
Relative Humidity 58.5 %

Atmospheric Pressure 1009.1 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

7.4.2 Test Setup Diagram



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7.4.3 Test Results

Operation Mode: Standby

Line Under Test	Level	Polarity	Phase	Results (Performance Criteria)
Line – Neutral	1 kV	+	90°	A
Line – Neutral	1 kV	-	270°	A
Line – Earth	2 kV	+	90°	A
Line – Earth	2 kV	-	270°	A
Neutral – Earth	2 kV	+	90°	A
Neutral – Earth	2 kV	-	270°	A

Operation Mode: On

Line Under Test	Level	Polarity	Phase	Results (Performance Criteria)
Line – Neutral	1 kV	+	90°	A
Line – Neutral	1 kV	-	270°	A
Line – Earth	2 kV	+	90°	A
Line – Earth	2 kV	-	270°	A
Neutral – Earth	2 kV	+	90°	A
Neutral – Earth	2 kV	-	270°	A

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

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7.5 Injected Currents Test

Test Requirement:	EN IEC 61000-6-2:2019
Test Method:	EN 61000-4-6:2014
Frequency Range:	150 kHz - 80 MHz
Criterion Required:	A
Test level:	10 Vr.m.s (Unmodulated) with 150Ω source impedance
Modulation:	1 kHz, 80% Amplitude Modulation
Step Size:	1 %

7.5.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 26.5 °C

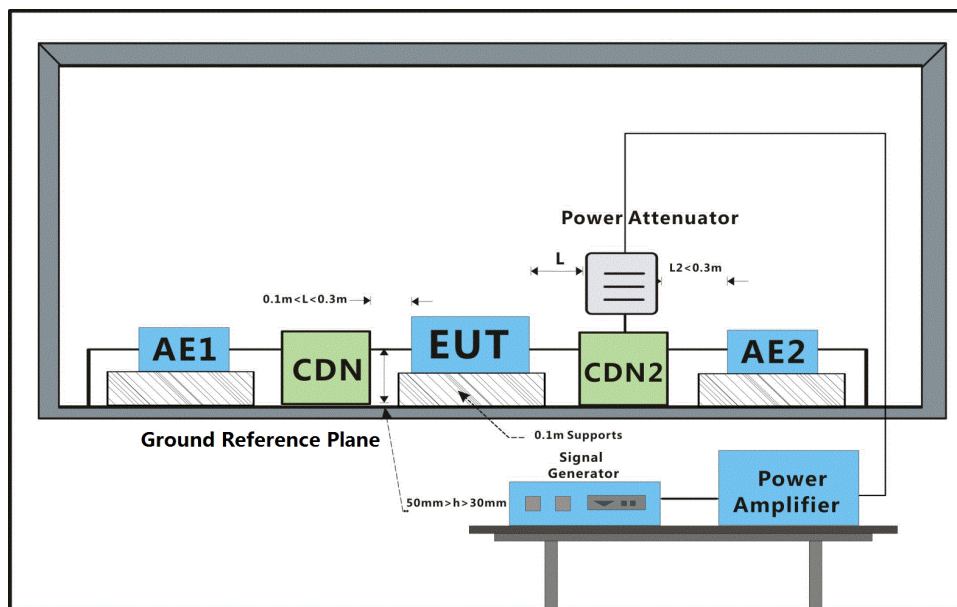
Relative Humidity 55.7 %

Atmospheric Pressure 1010.2 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

7.5.2 Test Setup Diagram



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7.5.3 Test Results

Operation Mode: Standby

Line Under Test	Test Level	Coupling	Dwell time	Results (Performance Criteria)
A.C. Mains Ports	10 Vr.m.s	CDN	1 s	A

Operation Mode: On

Line Under Test	Test Level	Coupling	Dwell time	Results (Performance Criteria)
A.C. Mains Ports	10 Vr.m.s	CDN	1 s	A

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

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7.6 Voltage Dips and Voltage Interruptions Test

Test Requirement:	EN IEC 61000-6-2:2019		
Test Method:	EN IEC 61000-4-11:2020		
Criterion Required:	Voltage dip:	0% of UT	= B
	Voltage dip:	40% of UT	= C
	Voltage dip:	70% of UT	= C
	Voltage interruption:	0% of UT	= C
Test level:	Voltage dip:	0% of UT for 1.0 Cycle	
	Voltage dip:	40% of UT for 10 Cycle	
	Voltage dip:	70% of UT for 25 Cycle	
	Voltage interruption:	0% of UT for 250 Cycle	
Time between dropouts:	10 second		

7.6.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 25.9 °C

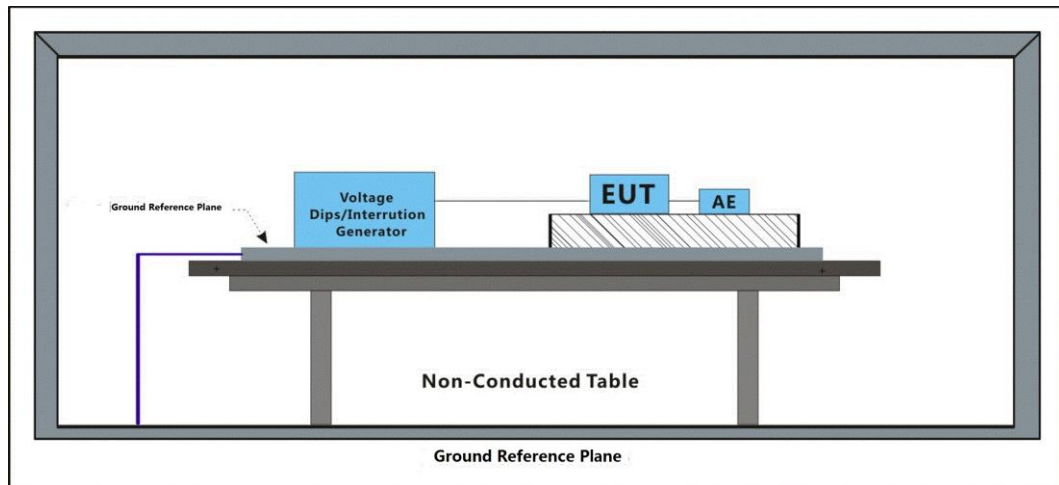
Relative Humidity 53.6 %

Atmospheric Pressure 1012.2 mbar

Operation Mode:

The Equipment shall be operated continuously with normal mode.

7.6.2 Test Setup Diagram



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7.6.3 Test Results

Operation Mode: Standby

%U _T	Phase	Duration	No. of Dips / Interruptions	Results (Performance Criteria)
0	0°,180°	1 cycle	3	A
40	0°,180°	10 cycles	3	A
70	0°,180°	25 cycles	3	A
Interruptions 0	0°,180°	250 cycles	3	A

Operation Mode: On

%U _T	Phase	Duration	No. of Dips / Interruptions	Results (Performance Criteria)
0	0°,180°	1 cycle	3	A
40	0°,180°	10 cycles	3	A
70	0°,180°	25 cycles	3	A
Interruptions 0	0°,180°	250 cycles	3	B

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

B = Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.

Remark: U_T = 230 V

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7.7 Power frequency magnetic field (PFM) Immunity Test

Test Requirement: EN IEC 61000-6-2:2019
 Test Method: EN 61000-4-8:2010
 Power Frequency: 50 Hz
 Criterion Required: A
 Test level: 4
 Magnetic Field Strength: 30 A/m
 Magnetic Field Orientation: X, Y, Z

7.7.1 Equipment Under Test Operation

Operating Environment:

Ambient Temperature 25.9 °C

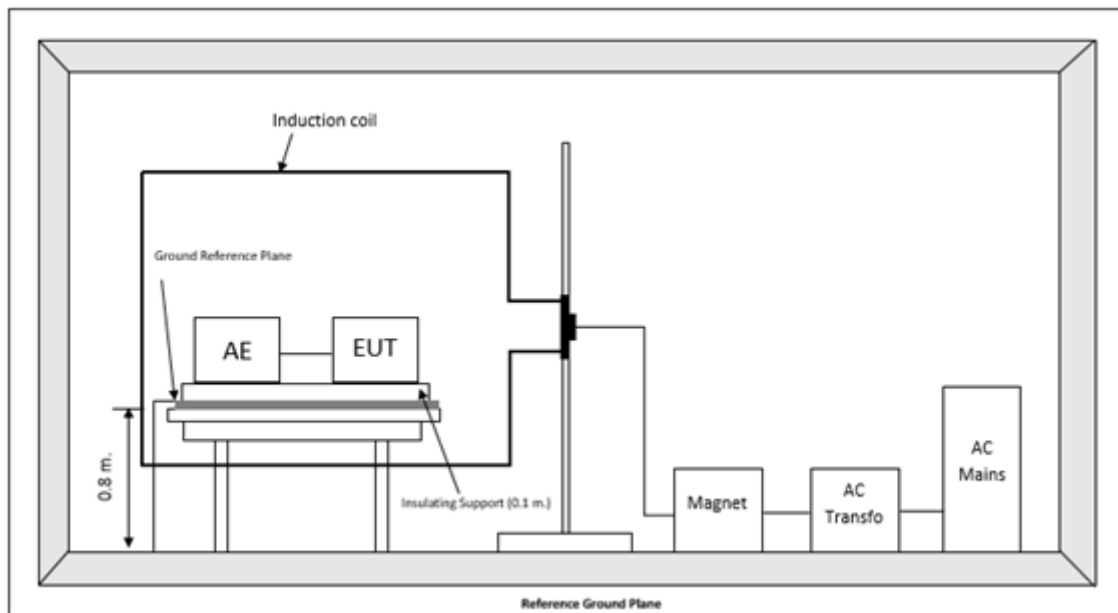
Relative Humidity 53.6 %

Atmospheric Pressure 1012.2 mbar

Operation Mode:

The Equipment shall be operated continuously with turn-on mode.

7.7.2 Test Setup Diagram



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7.7.3 Test Results

Operation Mode: Standby

Magnetic Field Orientation	Magnetic Field (A/M)	Results (Performance Criteria)
X-axis	30	A
Y-axis	30	A
Z-axis	30	A

Operation Mode: On

Magnetic Field Orientation	Magnetic Field (A/M)	Results (Performance Criteria)
X-axis	30	A
Y-axis	30	A
Z-axis	30	A

Remark:

Results (Performance Criteria):

A = No degradation in the performance of the equipment under test was observed.

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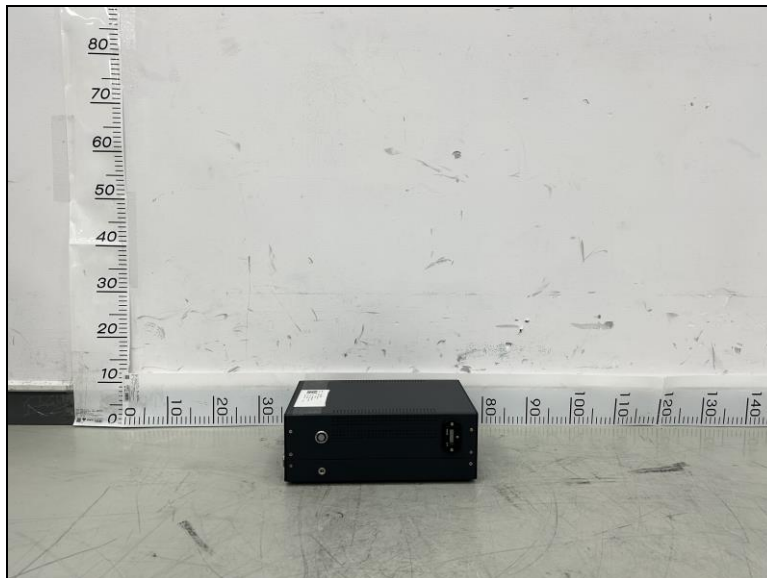
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8 Photographs

8.1 Equipment Under Test Constructional Details



Front Side

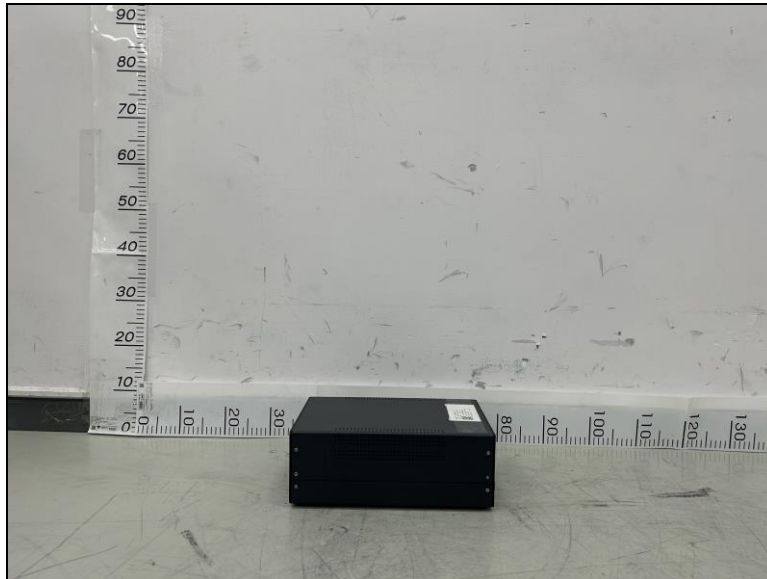


Right Side

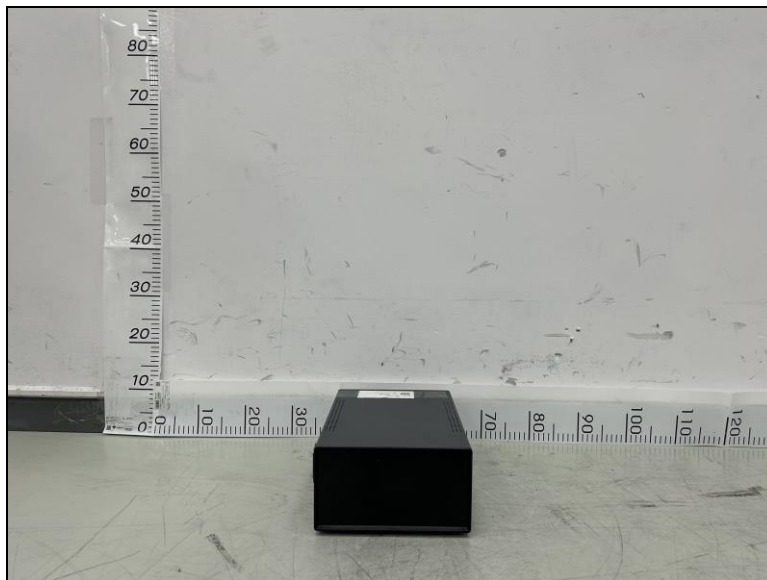
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Left Side



Rear Side

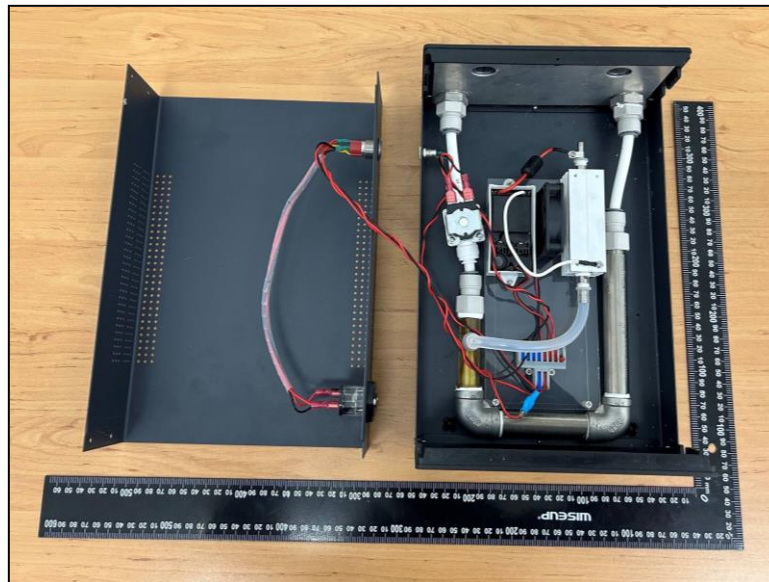
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Power Adapter components

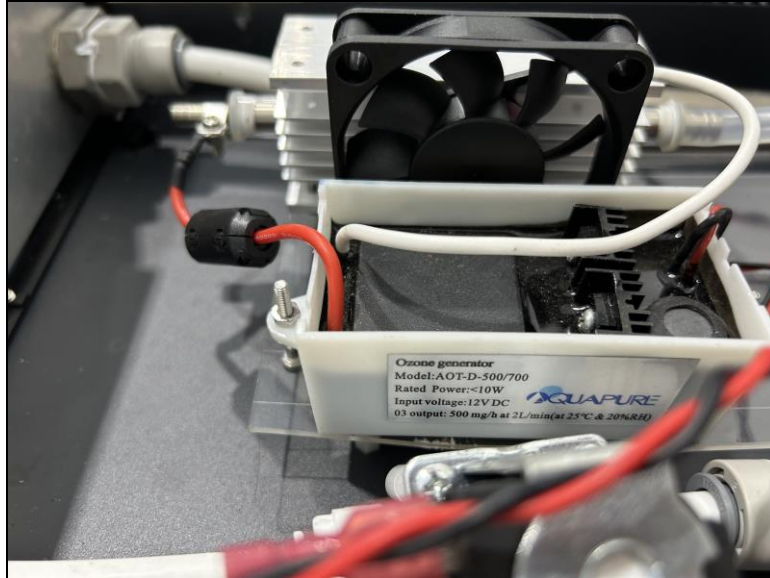


Inside product components #1

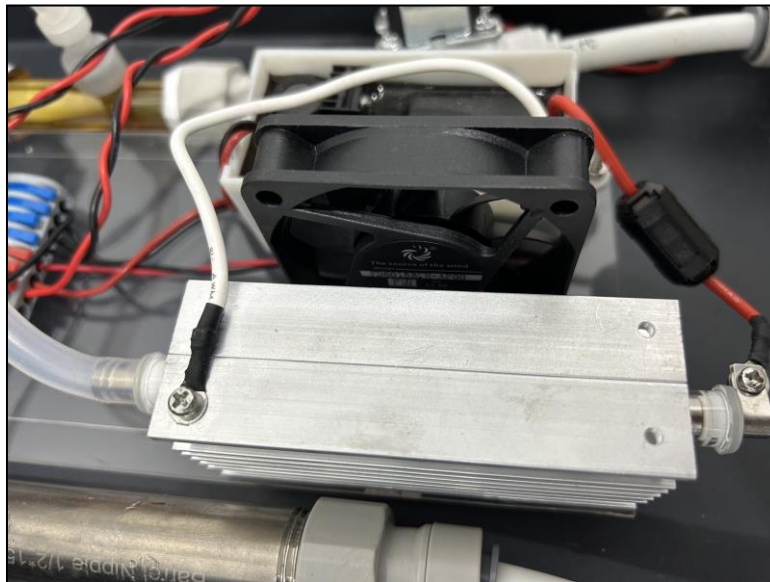
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Inside product components #2



Inside product components #3

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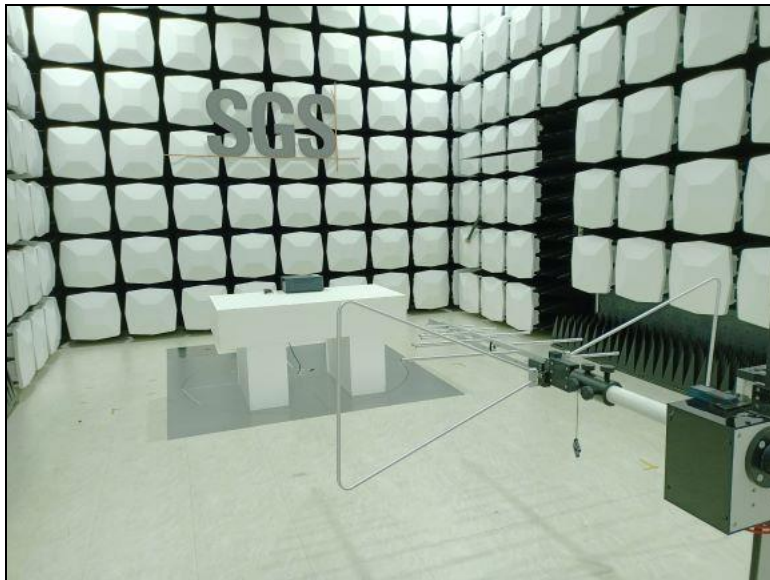
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8.2 Conducted Emissions Test Setup



8.3 Radiated Emissions Test Setup



Frequency range 30 MHz – 1.0 GHz

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8.4 Harmonic Current Emissions Test Setup



8.5 Voltage Changes, Voltage Fluctuations and Flicker Test Setup

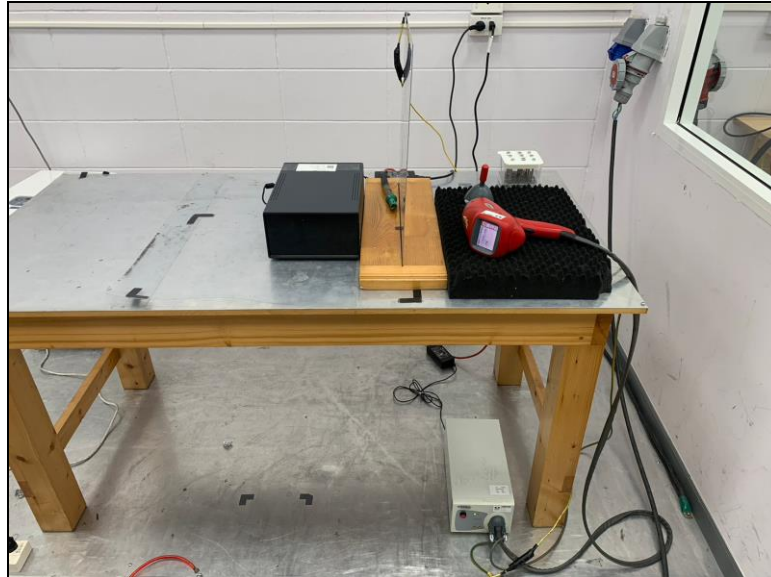


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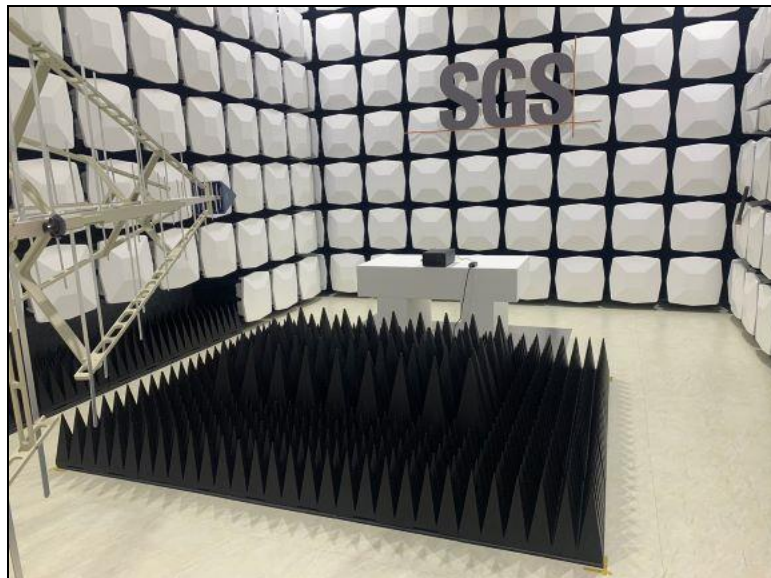
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8.6 Electrostatic Discharge Test Setup



8.7 Radio Frequency Electromagnetic Fields Test Setup

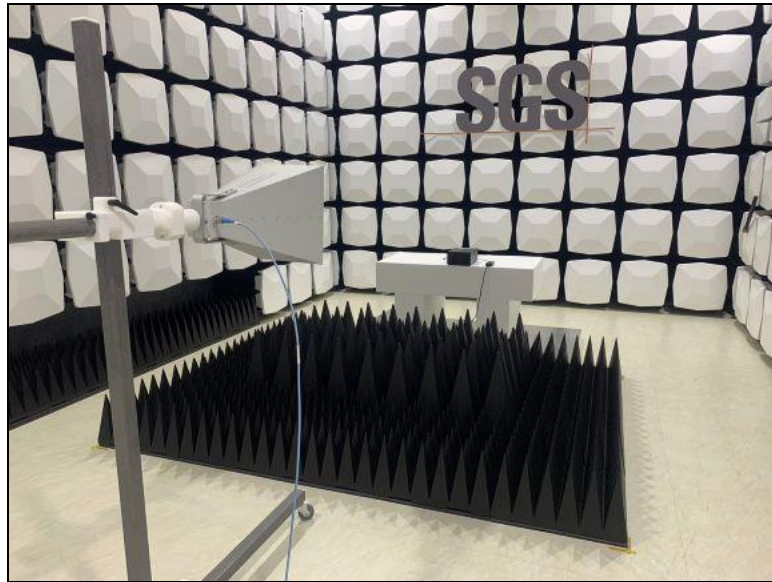


Frequency range 80.0 MHz – 1.0 GHz

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Frequency range 1.0 MHz – 6.0 GHz

8.8 Fast Transients Test Setup



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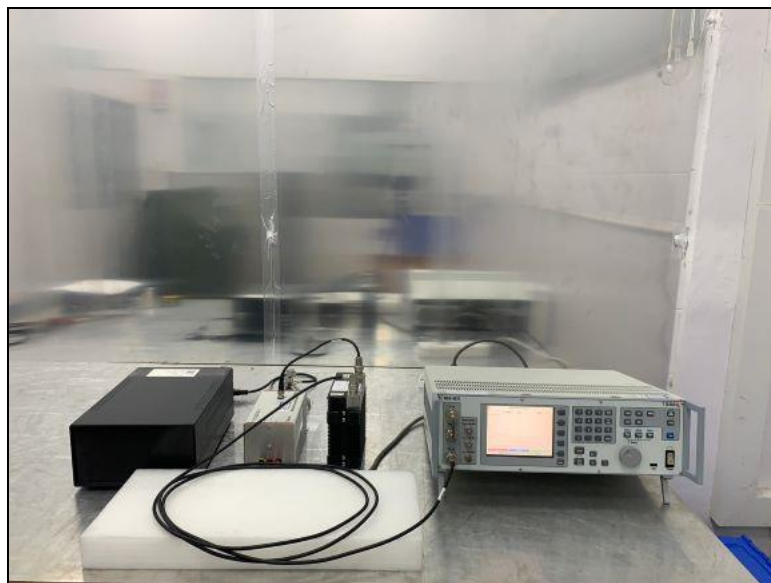
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8.9 Surges Test Setup



8.10 Injected Currents Test Setup



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8.11 Voltage Dips and Voltage Interruptions Test Setup



8.12 Power frequency magnetic field Test Setup



– End of Report –

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