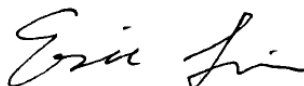


TEST REPORT

Application No.: KSEM2305001111BA
Applicant: Guangdong Didu New Energy Co., Ltd
Address of Applicant: No.25, Dongda North Street, Shatou, Chang'an Town, Dongguan, Guangdong
Manufacturer: Guangdong Didu New Energy Co., Ltd
Address of Manufacturer: No.25, Dongda North Street, Shatou, Chang'an Town, Dongguan, Guangdong
Factory: Guangdong Didu New Energy Co., Ltd
Address of Factory: No.25, Dongda North Street, Shatou, Chang'an Town, Dongguan, Guangdong
Equipment Under Test (EUT):
EUT Name: Lithium ion Battery Pack
Model No.: DDBGSG24100,DDBGSG24120,DDBGSG24125,DDBGSG24150,DDBGSG24200,DDBGSG4850,DDBGSG48100,DDBGSG48110,DDBGSG48120,DDBGSG48125,DDBGSG48150,DDBGSG48200,DDBGSG51100,DDBGSG51110,DDBGSG51120,DDBGSG5150,DDBGSG51200,DDBGSG51230,DDTSSG48100,DDTSSG48120,DDTSSG48150,DDBGSG48200,DDTSSG51100,DDTSSG51110,DDTSSG51200,DDTSSG51230 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : EN IEC 61000-6-3: 2021
 EN IEC 61000-6-1: 2019
Date of Receipt: 2023-05-18
Date of Test: 2023-05-25 to 2023-06-05
Date of Issue: 2023-06-08

Test Result:	Pass*
---------------------	--------------

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



Eric Lin
Laboratory Manager



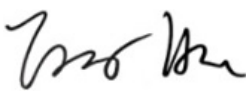
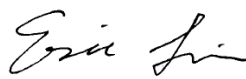
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM230500111101

Page: 2 of 61

Revision Record			
Version	Description	Date	Remark
00	Original	2023-06-08	/

Authorized for issue by:				
				
		Terry_Hou/Project Engineer		
				
		Eric Lin /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 61000-6-3: 2021	CISPR 16-2-1	Table 4.3	Pass
Radiated Emissions (30MHz-1GHz)		CISPR 16-2-3	Table 3.1	Pass
Radiated Emissions (Above 1GHz)		CISPR 16-2-3	Table 3.4	Pass
Harmonic Current Emission		EN 61000-3-12: 2011	Clause 5.2	Pass
Voltage Fluctuations and Flicker		EN IEC 61000-3-11: 2019	Clause 6.3.2	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	EN IEC 61000-6-1: 2019	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass
Electrical Fast Transients Burst at AC Mains Power Port		EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz or 100kHz Repetition Frequency	Pass
Electrostatic Discharge		EN 61000-4-2:2009	±4kV Contact Discharge, ±8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass
Surge at AC Mains Power Port		EN 61000-4-5:2014+A1:2017		Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11:2020	0 % UT for 0.5cycle 0 % UT for 1cycle 70 % UT for 25cycles 0 % UT for 250cycles UT is Supply Voltage	Pass

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are identical in electrical and electronic characters. Only the model DDBSG51230 was tested since their differences were the number of battery strings and battery capacity are different. Output power difference.



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3 Contents

	Page
1 COVER PAGE	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty & Decision Rule	6
4.4 Test Location	7
4.5 Test Facility	7
4.6 Deviation from Standards	7
4.7 Abnormalities from Standard Conditions	7
5 Equipment List	8
6 Emission Test Results	13
6.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	13
6.1.1 E.U.T. Operation	13
6.1.2 Test Mode Description	13
6.1.3 Test Setup Diagram	13
6.1.4 Measurement Procedure and Data	14
6.2 Radiated Emissions (30MHz-1GHz)	19
6.2.1 E.U.T. Operation	19
6.2.2 Test Mode Description	19
6.2.3 Test Setup Diagram	19
6.2.4 Measurement Procedure and Data	20
6.3 Radiated Emissions (Above 1GHz)	25
6.3.1 E.U.T. Operation	25
6.3.2 Test Mode Description	25
6.3.3 Test Setup Diagram	25
6.3.4 Measurement Procedure and Data	26
6.4 Harmonic Current Emission	31
6.4.1 E.U.T. Operation	31
6.4.2 Test Mode Description	31
6.4.3 Test Setup Diagram	31
6.4.4 Measurement Procedure and Data	31
6.5 Voltage Fluctuations and Flicker	36
6.5.1 E.U.T. Operation	36
6.5.2 Test Mode Description	36
6.5.3 Test Setup Diagram	36
6.5.4 Measurement Procedure and Data	36
7 Immunity Test Results	39



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM230500111101

Page: 5 of 61

7.1	Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	40
7.1.1	Test Setup Diagram	40
7.1.2	E.U.T. Operation	40
7.1.3	Test Mode Description	40
7.1.4	Test Condition and Results:	40
7.2	Electrical Fast Transients Burst at AC Mains Power Port	41
7.2.1	Test Setup Diagram	41
7.2.2	E.U.T. Operation	41
7.2.3	Test Mode Description	41
7.2.4	Test Condition and Results:	41
7.3	Electrostatic Discharge	42
7.3.1	Test Setup Diagram	42
7.3.2	E.U.T. Operation	42
7.3.3	Test Mode Description	42
7.3.4	Test Condition and Results:	42
7.4	Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)	44
7.4.1	Test Setup Diagram	44
7.4.2	E.U.T. Operation	44
7.4.3	Test Mode Description	44
7.4.4	Test Condition and Results:	44
7.5	Surge at AC Mains Power Port	46
7.5.1	Test Setup Diagram	46
7.5.2	E.U.T. Operation	46
7.5.3	Test Mode Description	46
7.5.4	Test Condition and Results:	46
7.6	Voltage Dips and Interruptions	49
7.6.1	Test Setup Diagram	49
7.6.2	E.U.T. Operation	49
7.6.3	Test Mode Description	49
7.6.4	Test Condition and Results:	49
8	Test Setup Photo	51
9	EUT Constructional Details (EUT Photos)	59



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4 General Information

4.1 Details of E.U.T.

Power supply:	51.2V300Ah Output Voltage:51.2Vdc Equalized Voltage: 58.4Vdc Float Voltage: 54.4Vdc Max Discharge Current:100A Test Voltage:AC 400V/50Hz&DC 51.2V
Cable(s):	DC Power cable

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Load	Resistance	N/A	N/A
DC Source	OUHAN	ADC200-60Y	N/A

4.3 Measurement Uncertainty & Decision Rule

Measurement Uncertainty:

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

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

Decision Rule:

- CISPR 16-4-2 for emission measurements is as below described.

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

U_{LAB} less than U_{CISPR} , therefore:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit.
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- For immunity testing no decision rule is applicable.



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM230500111101

Page: 7 of 61

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

4.5 Test Facility

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

• A2LA

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

• FCC

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

• ISED

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

• VCCI

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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

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

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI TEST RECEIVER	R&S	ESCI	KS301101	02/03/2023	02/02/2024
TWO-LINE V-NETWORK	R&S	ENV216	KS301197	01/17/2023	01/16/2024
V (V-LISN)	SCHWARZBECK	NNLK 8129	KS301091	01/17/2023	01/16/2024
Pulse LIMITER	R&S	ESH3-Z2	KUS1902E001	01/17/2023	01/16/2024
Software	Faratronic	EZ EMC-v 3A1	N/A	N/A	N/A

Radiated Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver	R&S	ESCI	KS301044	02/03/2023	02/02/2024
EMI Test Receiver	R&S	ESCI	KS301195	08/22/2022	08/21/2023
Bilog Antenna	Sunol	JB1	CZ301033	02/27/2023	02/26/2024
Bilog Antenna	Sunol	JB1	KS301013	04/07/2023	04/06/2024
Pre-Amplifier	Sonoma	310N	KS610098	03/31/2023	03/30/2024
Pre-Amplifier	Sonoma	310N	CZ301013	03/31/2023	03/30/2024
Software	Faratronic	EZ EMC-v 3A1	N/A	N/A	N/A

Radiated Emissions (Above 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Spectrum Analyzer	R&S	FSU26	KS301206	03/16/2023	03/15/2024
Preamplifier	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-2	01/17/2023	01/16/2024
Horn-antenna	SCHWARZBECK	BBHA9120D	KS301079	04/02/2022	04/01/2024
Software	Faratronic	EZ EMC-v 3A1	N/A	N/A	N/A

Harmonic Current Emission

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Harmonic & Flicker Tester	SCHAFFNER	CCN 1000-1	KS301033	08/22/2022	08/21/2023
AC Power Source	SCHAFFNER	NSG 1007	KS301087	08/22/2022	08/21/2023
Software	TESEQ	CTS4-v 4.24.0	N/A	N/A	N/A
Harmonic/Flicker Analyzer	KIKUSUI	KHA3000	KUS2009M002-1	03/31/2023	03/30/2024
Line Impedance Network	KIKUSUI	SPEC71116	KUS2009M002	03/31/2023	03/30/2024



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM230500111101

Page: 9 of 61

			-1		
Switcher	KIKUSUI	SPEC71092	KUS2009M002-2	03/31/2023	03/30/2024
AC Power Supply(Master)	KIKUSUI	PCR24000WE2	KUS2009M002-3	03/16/2023	03/15/2024
AC Power Supply(Slave)	KIKUSUI	PCR24000WE2	KUS2009M002-4	03/16/2023	03/15/2024
Software	KIKUSUI	HarmoCapture 3-vv 2.5.2.00	N/A	N/A	N/A

Voltage Fluctuations and Flicker

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Harmonic & Flicker Tester	SCHAFFNER	CCN 1000-1	KS301033	08/22/2022	08/21/2023
AC Power Source	SCHAFFNER	NSG 1007	KS301087	08/22/2022	08/21/2023
Software	TESEQ	CTS4-v 4.24.0	N/A	N/A	N/A
Harmonic/Flicker Analyzer	KIKUSUI	KHA3000	KUS2009M002-1	03/31/2023	03/30/2024
Line Impedance Network	KIKUSUI	SPEC71116	KUS2009M002-1	03/31/2023	03/30/2024
Switcher	KIKUSUI	SPEC71092	KUS2009M002-2	03/31/2023	03/30/2024
AC Power Supply(Master)	KIKUSUI	PCR24000WE2	KUS2009M002-3	03/16/2023	03/15/2024
AC Power Supply(Slave)	KIKUSUI	PCR24000WE2	KUS2009M002-4	03/16/2023	03/15/2024
Software	KIKUSUI	HarmoCapture 3-vv 2.5.2.00	N/A	N/A	N/A

Conducted Immunity at AC Mains Power Port (150kHz-80MHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test System for Conducted and Radiated Immunity	TESEQ	NSG 4070B	KSZ201705E003	02/03/2023	02/02/2024
Amplifier	TESEQ	SCCXE75	KSZ201705E004	02/03/2023	02/02/2024
EM-Koppelzange	SCHAFFNER	KEMZ 801	CZ301002	02/03/2023	02/02/2024
Attenuator	EURO MC	7860 ORGEVAL	CZ301084	03/16/2023	03/15/2024
Directional Coupler	HIGH POWER	C21A8	CZ750021	09/06/2022	09/05/2023
CDN (Coupling and Decoupling Network)	SCHAFFNER	CDN M216	CZ301085	03/16/2023	03/15/2024
CDN (Coupling and	SCHAFFNER	CDN M316	CZ301025	03/16/2023	03/15/2024



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Report No.: KSEM230500111101

Page: 10 of 61

Decoupling Network)					
CDN (Coupling and Decoupling Network)	TESEQ	CDN S751	KS301184-2	03/16/2023	03/15/2024
CDN (Coupling and Decoupling Network)	TESEQ	CDN M116	KS301184-1	03/16/2023	03/15/2024
CDN	TESEQ	CDN T2-10S	KS301286	03/16/2023	03/15/2024
CDN	TESEQ	CDN T4-10S	KS301287	03/16/2023	03/15/2024
CDN	TESEQ	CDN T8-10S	KS301288	03/16/2023	03/15/2024
Current Clamp	TESEQ	IP-DR250	KS201703E001	02/03/2023	02/02/2024
CDN	TESEQ	CDN M432	KUS2003M001-1	02/03/2023	02/02/2024
CDN	TESEQ	CDN M432-3LN	KUS2003M001-2	02/03/2023	02/02/2024
CDN	TESEQ	CDN M532	KUS2003M001-3	02/03/2023	02/02/2024
CDN	TESEQ	CDN M232	KSZ201706E001	03/16/2023	03/15/2024
CDN	TESEQ	CDN M332	KSZ201706E002	03/16/2023	03/15/2024
Software	TESEQ	NSG 4070-v 1.3.0.1	N/A	N/A	N/A

Electrical Fast Transients Burst at AC Mains Power Port

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMC Immunity Tester	EMC PARTNER	Transient2000	KS301188-1	08/22/2022	08/21/2023
Coupling Network	EMC PARTNER	CN-EFT1000	KS301188-3	08/22/2022	08/21/2023
Burst Generator	SANKI	EFT-0404S	KUS2009M002-7	03/31/2023	03/30/2024
Coupling and Decoupling Network	SANKI	CDN-4350	KUS2009M002-8	03/31/2023	03/30/2024

Electrostatic Discharge

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
ESD Simulator	EM TEST	DITO 509030	KS301147	02/06/2023	02/05/2024

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

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Synthesized Signal Generator	AGILENT	83732B	KS301183	02/03/2023	02/02/2024
Laser probe interface	AR Worldwide	FI7000	KS301193-2	03/21/2023	03/20/2024



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Report No.: KSEM230500111101

Page: 11 of 61

E-Field Sensor	AR Worldwide	FL7006 100K-6G	KS301193-1	03/21/2023	03/20/2024
Amplifier Research (80~1000MHz 150w)	AR Worldwide	150W1000M1	KS301139	08/22/2022	08/21/2023
Amplifier Research (1~6GHz 50w)	AR Worldwide	50S1G6M1	KS301231	08/22/2022	08/21/2023
Dual Directional Coupler (1-11G)	AR Worldwide	C1-A47NFNF 35dB	KS301193-5	N.C.R	N.C.R
Dual Directional Coupler (80~1000MHz 400w)	AR Worldwide	DC6180	KS301193-6	N.C.R	N.C.R
RF POWER METER	BOONTON	4232A-01	KS301022	02/03/2023	02/02/2024
POWER SENSOR	BOONTON	51085	H3010235-1	02/03/2023	02/02/2024
POWER SENSOR	BOONTON	51085	H3010235-2	02/03/2023	02/02/2024
Antenna	AR Worldwide	TP1000A	CZ301029	N.C.R	N.C.R
Software	AR	emc ware-v 3.2.0.4	N/A	N/A	N/A

Surge at AC Mains Power Port

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMC Immunity Tester	EMC PARTNER	TRA2006	KS301188-1	08/22/2022	08/21/2023
Coupling and Decoupling Network	EMC PARTNER	CDN-UTP8	KS301188-2	08/22/2022	08/21/2023
Surge Generator	SANKI	LSG-0506S	KUS2009M002-5	03/31/2023	03/30/2024
Coupling and Decoupling Network	SANKI	CDN-5350	KUS2009M002-6	03/31/2023	03/30/2024

Voltage Dips and Interruptions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMC Immunity Tester	EMC PARTNER	TRA2006	KS301188-1	08/22/2022	08/21/2023
Switcher	KIKUSUI	SPEC71092	KUS2009M002-2	03/31/2023	03/30/2024
AC Power Supply(Master)	KIKUSUI	PCR24000WE 2	KUS2009M002-3	03/16/2023	03/15/2024
AC Power Supply(Slave)	KIKUSUI	PCR24000WE 2	KUS2009M002-4	03/16/2023	03/15/2024
Software	KIKUSUI	Quick Immunity Sequencer 2-v 4.0.3.02	N/A	N/A	N/A



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Report No.: KSEM230500111101

Page: 12 of 61

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital Pressure Meter	Mengde	DYM3	CZ750023	01/31/2023	01/30/2024
Temperature & Humidity Recorder	Anymetre	TH603	CZ720001-1 CZ720001-2 CZ720001-3 CZ720001-4 CZ720001-5 CZ720001-6 CZ720001-7	10/13/2022	10/12/2023



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6 Emission Test Results

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

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-1

Limit:

0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(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

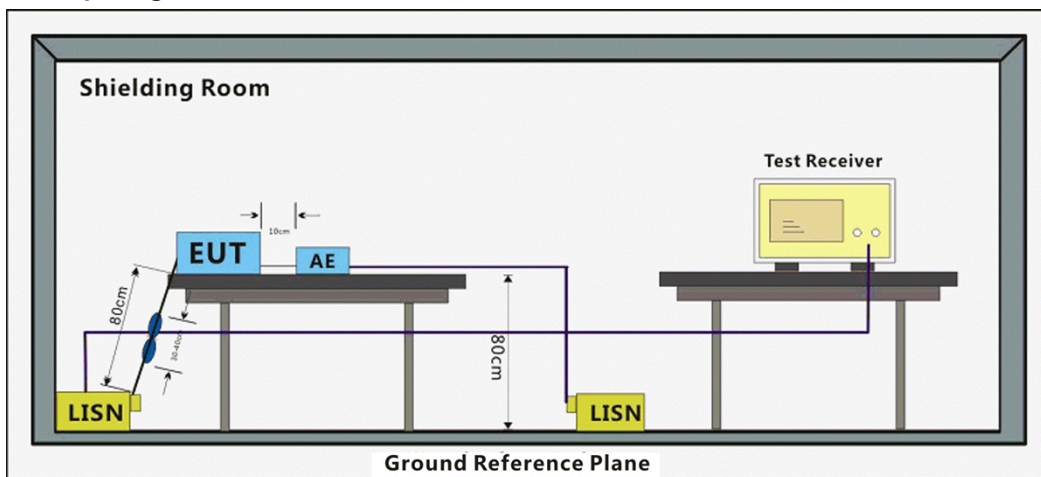
Operating Environment:

Temperature: 24.3 °C Humidity: 52.6 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

Frequency range: 150KHz-30MHz

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

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

Measured Level = Read level + Cable Loss + LISN Factor

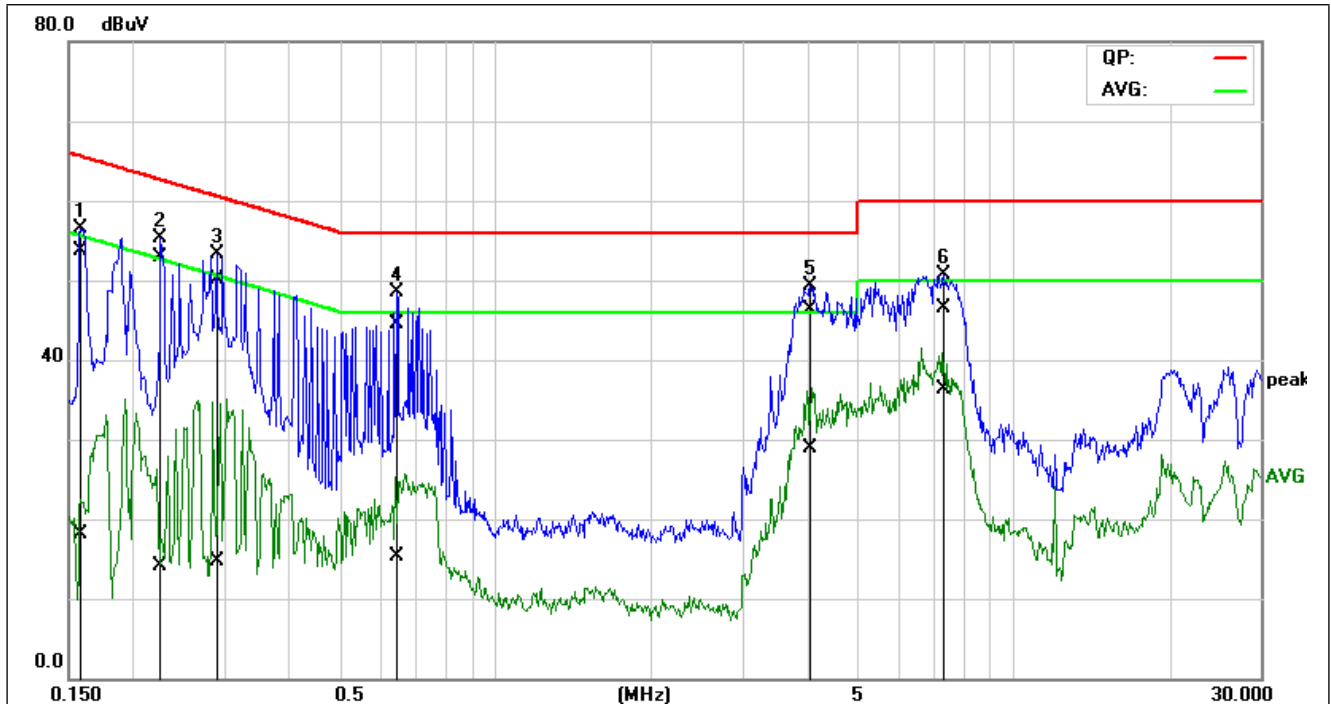


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Test Mode: 00; Line: Live line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1582	43.82	8.11	9.97	53.79	18.08	65.55	55.56	-11.76	-37.48	Pass
2	0.2255	42.91	4.03	9.99	52.90	14.02	62.61	52.61	-9.71	-38.59	Pass
3	0.2893	40.11	4.67	9.99	50.10	14.66	60.54	50.54	-10.44	-35.88	Pass
4	0.6440	34.43	5.24	10.05	44.48	15.29	56.00	46.00	-11.52	-30.71	Pass
5*	4.0487	36.12	18.72	10.21	46.33	28.93	56.00	46.00	-9.67	-17.07	Pass
6	7.3290	36.09	25.94	10.36	46.45	36.30	60.00	50.00	-13.55	-13.70	Pass

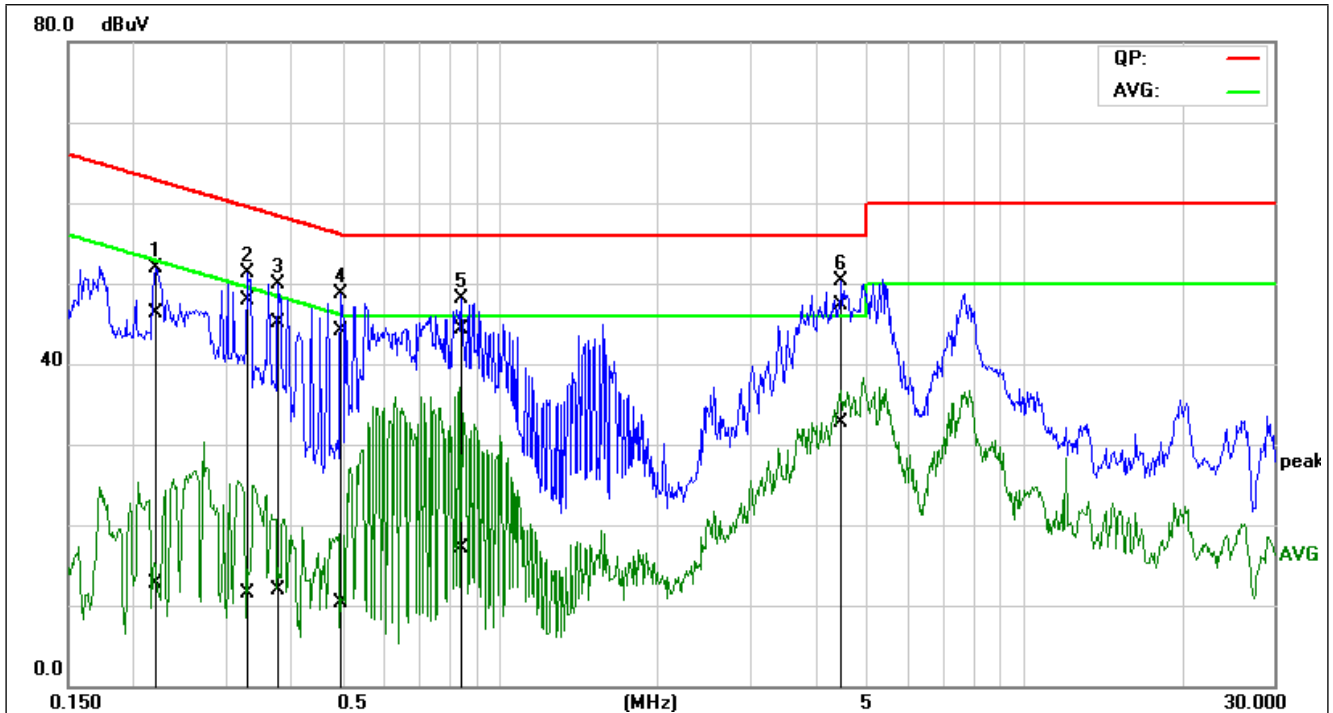


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Test Mode: 00; Line: Live line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.2197	36.42	2.74	9.98	46.40	12.72	62.83	52.83	-16.43	-40.11	Pass
2	0.3286	37.94	1.41	10.00	47.94	11.41	59.48	49.49	-11.54	-38.08	Pass
3	0.3770	35.12	1.97	10.01	45.13	11.98	58.34	48.35	-13.21	-36.37	Pass
4	0.4964	34.06	0.22	10.05	44.11	10.27	56.06	46.06	-11.95	-35.79	Pass
5	0.8437	34.19	6.98	10.06	44.25	17.04	56.00	46.00	-11.75	-28.96	Pass
6*	4.4775	37.11	22.51	10.21	47.32	32.72	56.00	46.00	-8.68	-13.28	Pass

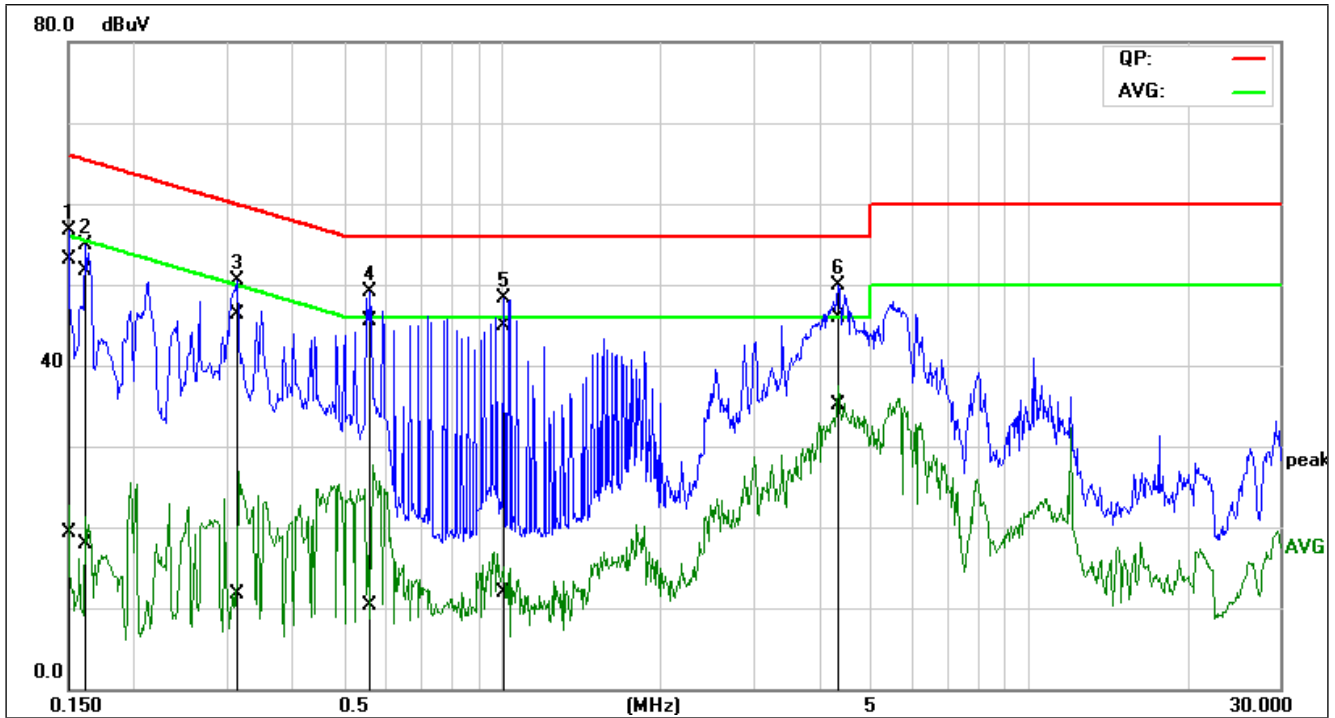


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Test Mode: 00; Line: Live line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	43.15	9.31	9.97	53.12	19.28	65.99	56.00	-12.87	-36.72	Pass
2	0.1615	41.76	7.89	9.97	51.73	17.86	65.38	55.39	-13.65	-37.53	Pass
3	0.3133	36.28	1.74	9.99	46.27	11.73	59.88	49.88	-13.61	-38.15	Pass
4	0.5611	35.44	0.23	10.05	45.49	10.28	56.00	46.00	-10.51	-35.72	Pass
5	1.0050	34.81	1.77	10.09	44.90	11.86	56.00	46.00	-11.10	-34.14	Pass
6*	4.3376	35.62	24.81	10.21	45.83	35.02	56.00	46.00	-10.17	-10.98	Pass

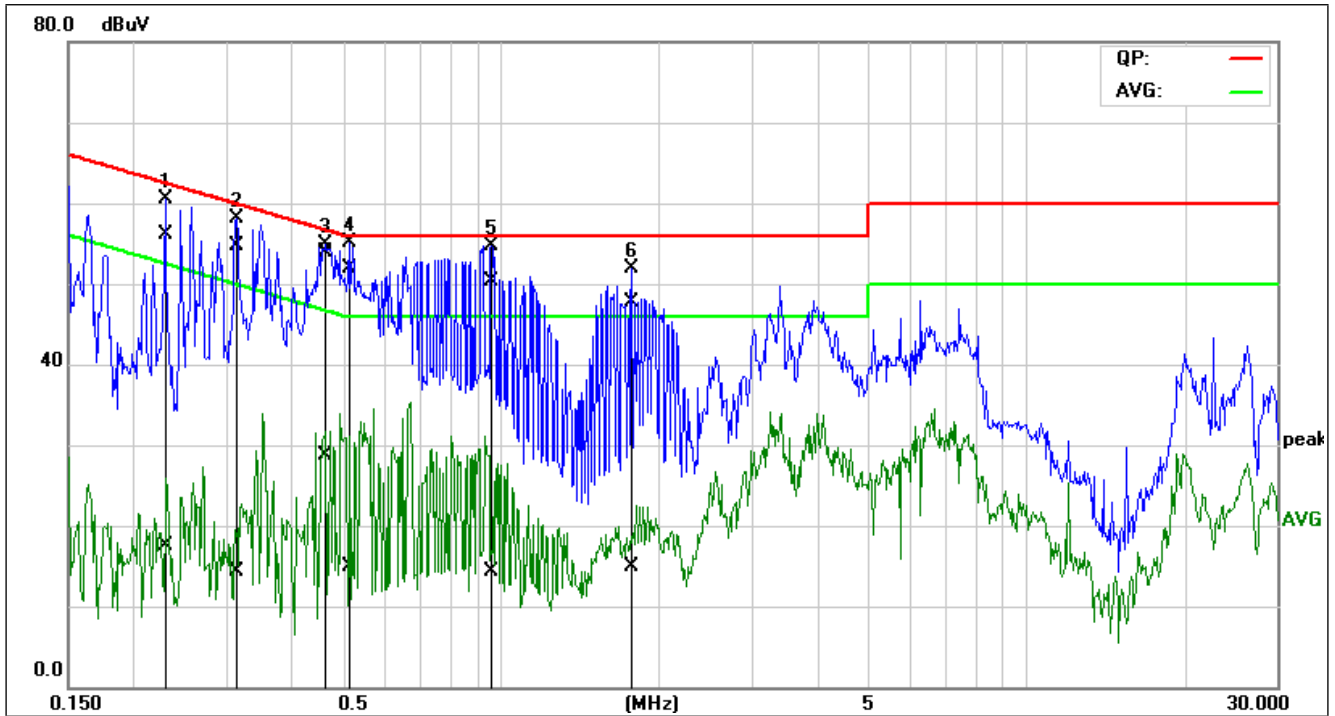


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Test Mode: 00; Line: Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.2290	46.11	7.54	9.99	56.10	17.53	62.48	52.49	-6.38	-34.96	Pass
2	0.3133	44.62	4.33	9.99	54.61	14.32	59.88	49.88	-5.27	-35.56	Pass
3*	0.4637	43.92	18.69	10.04	53.96	28.73	56.63	46.63	-2.67	-17.90	Pass
4	0.5128	41.76	4.76	10.05	51.81	14.81	56.00	46.00	-4.19	-31.19	Pass
5	0.9582	40.28	4.13	10.09	50.37	14.22	56.00	46.00	-5.63	-31.78	Pass
6	1.7716	37.56	4.87	10.13	47.69	15.00	56.00	46.00	-8.31	-31.00	Pass



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-3

Limit:

Test Distance: 10m

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

Test Distance: 3m

30MHz-230MHz 40 dB(μV/m) quasi-peak

230MHz-1GHz 47 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: 23 °C

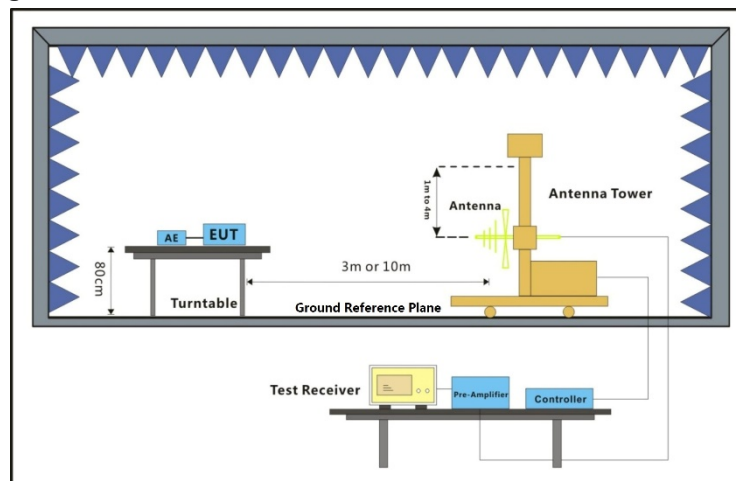
Humidity: 53 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.
Final test	01	Discharging Mode.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The red line show in graphic is the limit in standard used in this section.

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

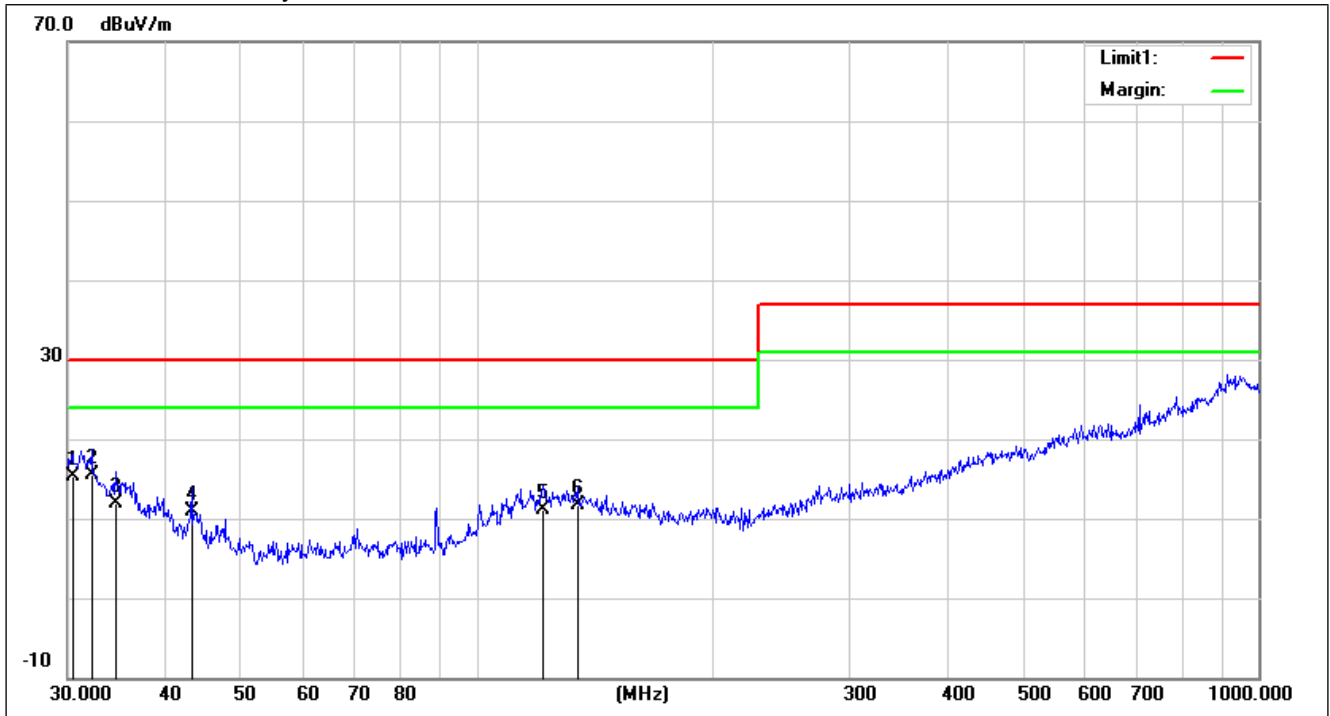


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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg)	Remark
1	30.4238	24.87	-9.57	15.30	30.00	-14.70	100	45	QP
2	32.1795	26.29	-10.73	15.56	30.00	-14.44	100	360	QP
3	34.5173	24.66	-12.67	11.99	30.00	-18.01	100	253	QP
4	43.2017	29.59	-18.61	10.98	30.00	-19.02	200	276	QP
5	121.5486	25.55	-14.44	11.11	30.00	-18.89	200	24	QP
6	134.5592	26.62	-14.82	11.80	30.00	-18.20	200	87	QP

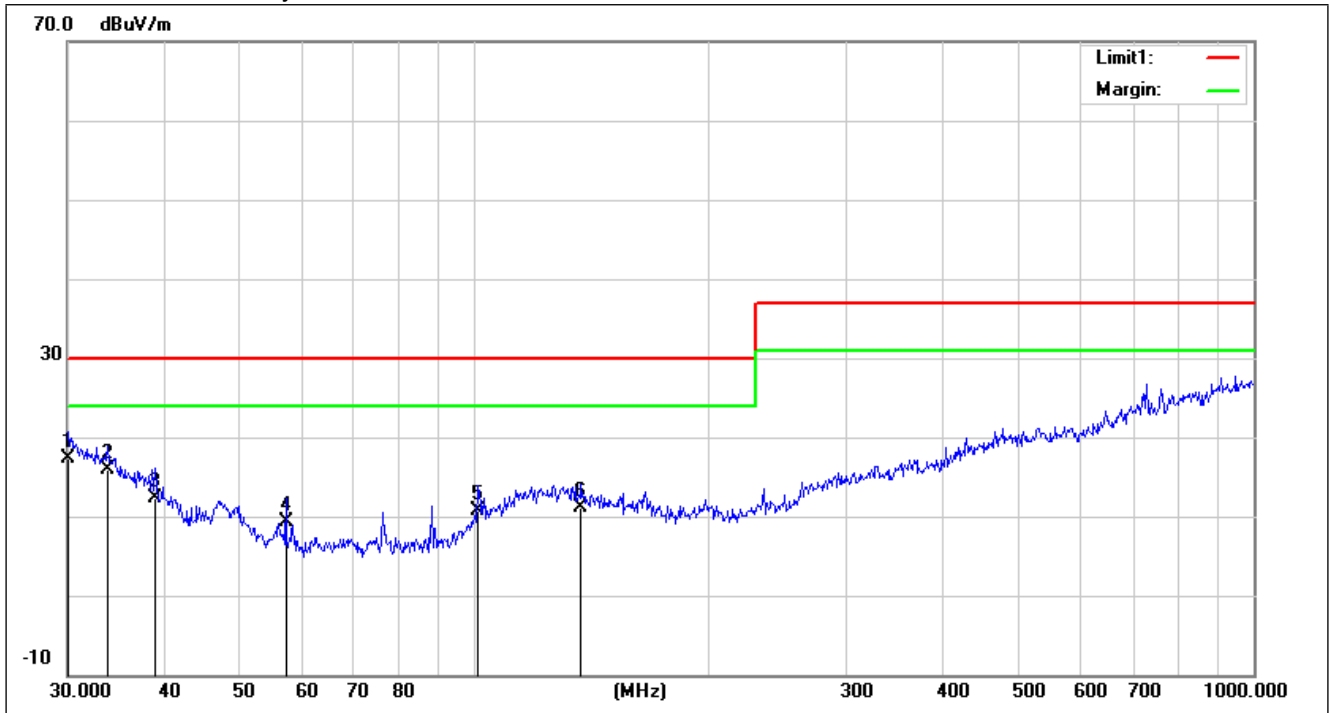


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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg)	Remark
1	30.1053	24.30	-6.93	17.37	30.00	-12.63	100	61	QP
2	33.7986	25.03	-9.15	15.88	30.00	-14.12	100	67	QP
3	38.8880	25.19	-12.79	12.40	30.00	-17.60	100	-5	QP
4	57.1914	29.24	-19.93	9.31	30.00	-20.69	100	172	QP
5	100.9340	26.81	-16.01	10.80	30.00	-19.20	100	332	QP
6	136.9391	24.36	-13.26	11.10	30.00	-18.90	200	286	QP

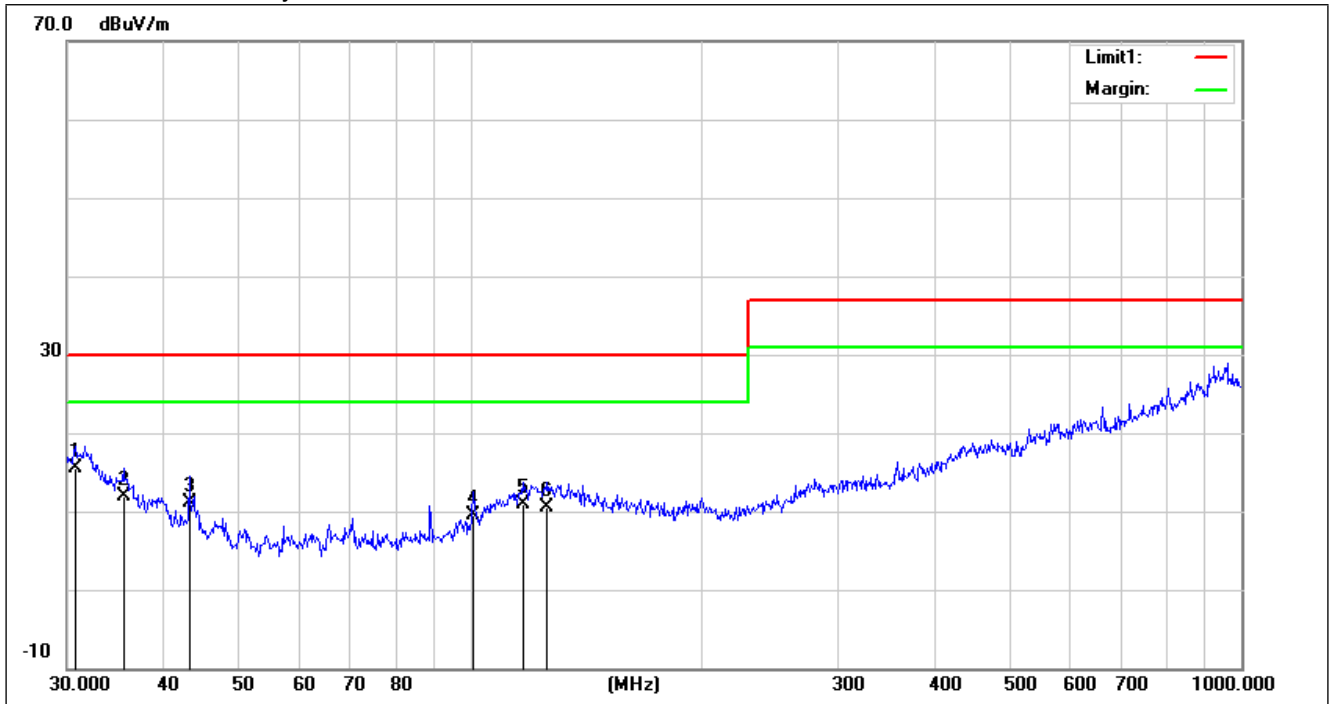


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Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg)	Remark
1	30.7455	25.36	-9.84	15.52	30.00	-14.48	200	180	QP
2	35.4993	25.28	-13.44	11.84	30.00	-18.16	200	39	QP
3	43.2017	29.75	-18.61	11.14	30.00	-18.86	200	215	QP
4	100.9340	27.51	-17.97	9.54	30.00	-20.46	200	154	QP
5	116.9495	25.58	-14.72	10.86	30.00	-19.14	200	332	QP
6	125.8864	25.00	-14.40	10.60	30.00	-19.40	200	143	QP

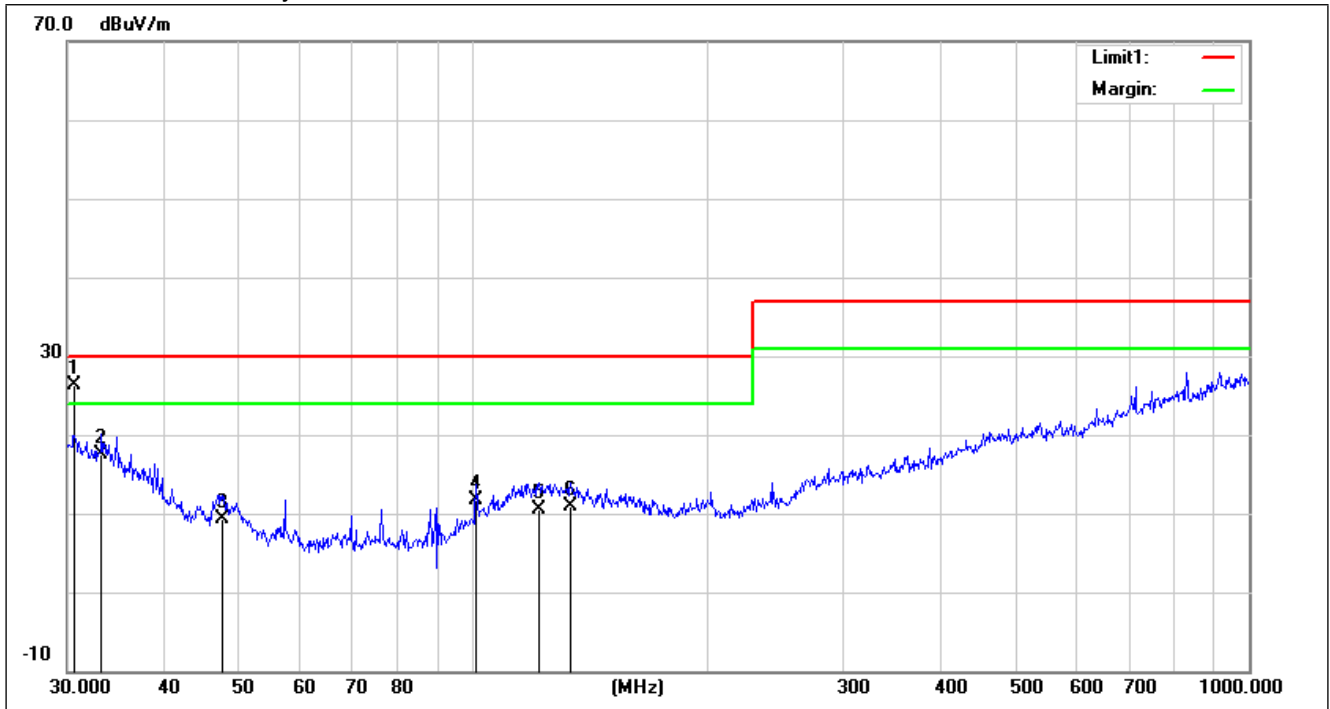


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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg)	Remark
1	30.6380	33.49	-7.20	26.29	30.00	-3.71	200	169	QP
2	33.2112	26.20	-8.79	17.41	30.00	-12.59	100	211	QP
3	47.4918	27.55	-18.22	9.33	30.00	-20.67	100	153	QP
4	100.9340	27.66	-16.01	11.65	30.00	-18.35	100	86	QP
5	121.5486	22.95	-12.47	10.48	30.00	-19.52	200	180	QP
6	133.6188	23.76	-12.94	10.82	30.00	-19.18	200	299	QP



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6.3 Radiated Emissions (Above 1GHz)

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-3

Limit:

Frequency range (MHz)	Radiated emissions limit(dBμV/m)	
	Peak	Average
1000-3000	70	50
3000-6000	74	54

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

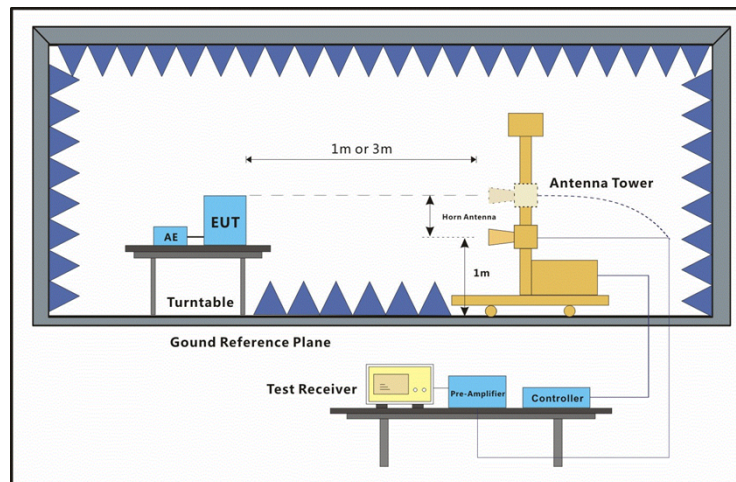
Humidity: 51.6 % RH

Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.
Final test	01	Discharging Mode.

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

Frequency range: Above 1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The red line show in graphic is the limit in standard used in this section.

The EUT was measured by Horn antenna with 2 orthogonal polarities.

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

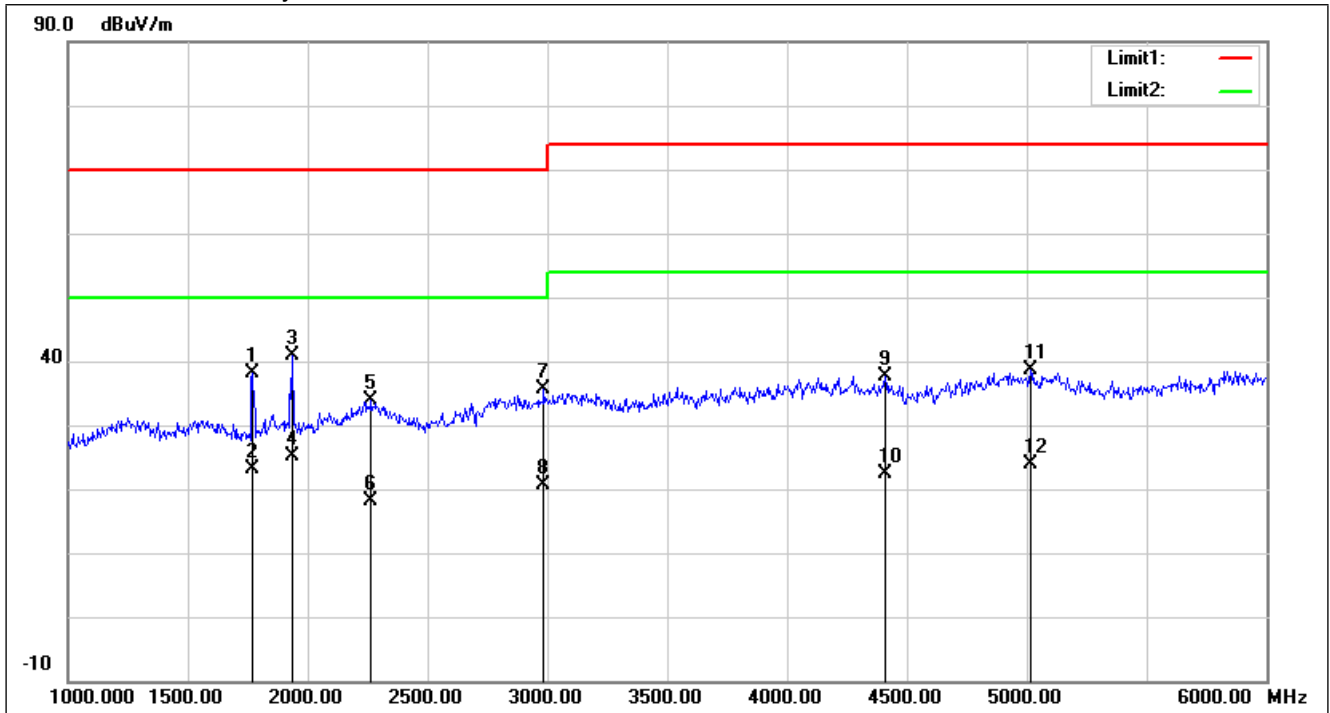


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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1770.000	60.24	-22.03	38.21	70.00	-31.79	100	105	peak
2	1770.000	45.20	-22.03	23.17	50.00	-26.83	100	105	AVG
3	1935.000	62.25	-21.34	40.91	70.00	-29.09	100	105	peak
4	1935.000	46.48	-21.34	25.14	50.00	-24.86	100	105	AVG
5	2265.000	52.55	-18.76	33.79	70.00	-36.21	100	16	peak
6	2265.000	36.92	-18.76	18.16	50.00	-31.84	100	16	AVG
7	2985.000	52.97	-17.46	35.51	70.00	-34.49	100	58	peak
8	2985.000	38.11	-17.46	20.65	50.00	-29.35	100	58	AVG
9	4410.000	51.81	-14.06	37.75	74.00	-36.25	100	305	peak
10	4410.000	36.56	-14.06	22.50	54.00	-31.50	100	305	AVG
11	5015.000	51.51	-12.82	38.69	74.00	-35.31	100	247	peak
12	5015.000	36.68	-12.82	23.86	54.00	-30.14	100	247	AVG

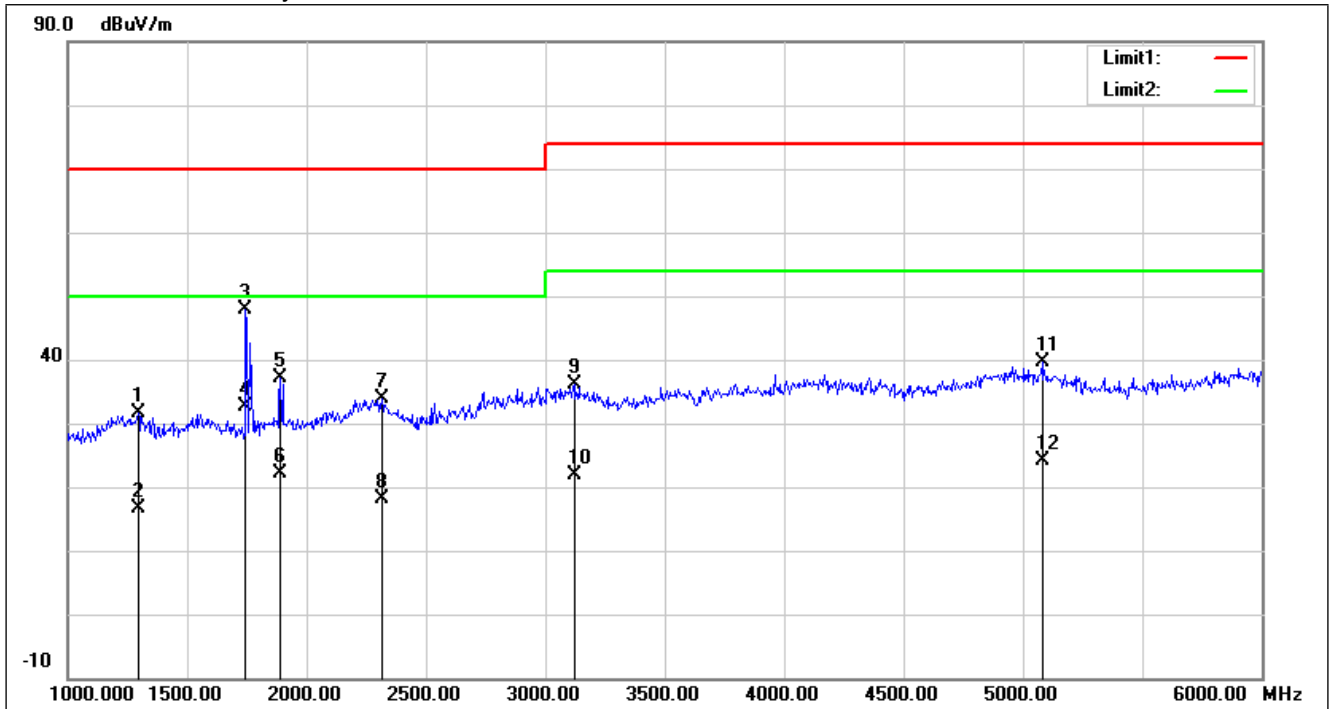


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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1295.000	53.02	-21.50	31.52	70.00	-38.48	100	2	peak
2	1295.000	38.15	-21.50	16.65	50.00	-33.35	100	2	AVG
3	1745.000	70.02	-22.11	47.91	70.00	-22.09	100	358	peak
4	1745.000	54.62	-22.11	32.51	50.00	-17.49	100	358	AVG
5	1890.000	58.60	-21.57	37.03	70.00	-32.97	100	0	peak
6	1890.000	43.74	-21.57	22.17	50.00	-27.83	100	0	AVG
7	2315.000	52.54	-18.63	33.91	70.00	-36.09	100	287	peak
8	2315.000	36.80	-18.63	18.17	50.00	-31.83	100	287	AVG
9	3120.000	53.15	-17.00	36.15	74.00	-37.85	100	358	peak
10	3120.000	38.96	-17.00	21.96	54.00	-32.04	100	358	AVG
11	5080.000	52.34	-12.78	39.56	74.00	-34.44	100	358	peak
12	5080.000	36.93	-12.78	24.15	54.00	-29.85	100	358	AVG

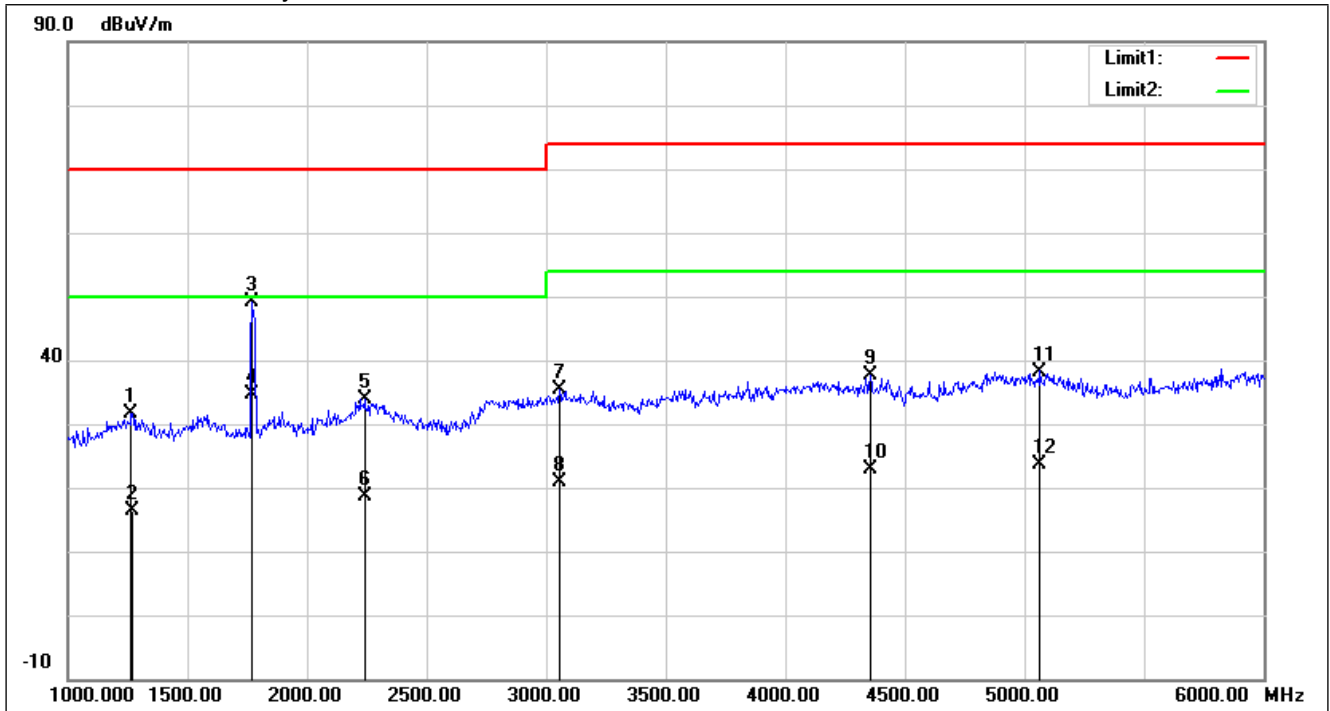


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Test Mode: 01; Polarity: Horizontal



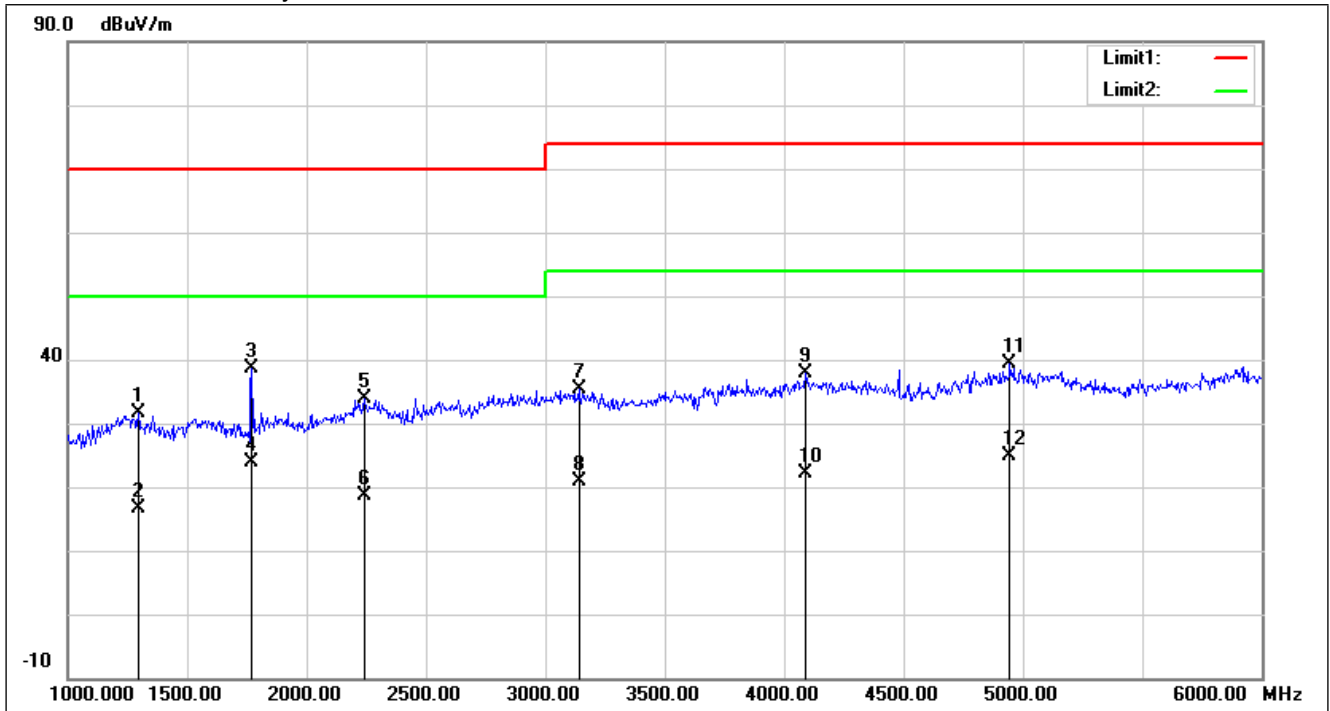
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1265.000	52.98	-21.46	31.52	70.00	-38.48	100	128	peak
2	1270.000	37.79	-21.47	16.32	50.00	-33.68	100	128	AVG
3	1770.000	71.24	-22.03	49.21	70.00	-20.79	100	1	peak
4	1770.000	56.68	-22.03	34.65	50.00	-15.35	100	1	AVG
5	2240.000	52.84	-18.87	33.97	70.00	-36.03	100	6	peak
6	2240.000	37.52	-18.87	18.65	50.00	-31.35	100	6	AVG
7	3055.000	52.50	-17.20	35.30	74.00	-38.70	100	353	peak
8	3055.000	38.12	-17.20	20.92	54.00	-33.08	100	353	AVG
9	4355.000	51.79	-14.11	37.68	74.00	-36.32	100	289	peak
10	4355.000	36.92	-14.11	22.81	54.00	-31.19	100	289	AVG
11	5065.000	51.03	-12.78	38.25	74.00	-35.75	100	341	peak
12	5065.000	36.43	-12.78	23.65	54.00	-30.35	100	341	AVG



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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	1295.000	53.12	-21.50	31.62	70.00	-38.38	100	67	peak
2	1295.000	38.15	-21.50	16.65	50.00	-33.35	100	67	AVG
3	1770.000	60.71	-22.03	38.68	70.00	-31.32	100	1	peak
4	1770.000	45.98	-22.03	23.95	50.00	-26.05	100	1	AVG
5	2240.000	52.72	-18.87	33.85	70.00	-36.15	100	360	peak
6	2240.000	37.38	-18.87	18.51	50.00	-31.49	100	360	AVG
7	3140.000	52.40	-16.96	35.44	74.00	-38.56	100	360	peak
8	3140.000	37.92	-16.96	20.96	54.00	-33.04	100	360	AVG
9	4090.000	52.37	-14.45	37.92	74.00	-36.08	100	80	peak
10	4090.000	36.63	-14.45	22.18	54.00	-31.82	100	80	AVG
11	4945.000	52.34	-13.00	39.34	74.00	-34.66	100	199	peak
12	4945.000	37.98	-13.00	24.98	54.00	-29.02	100	199	AVG



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6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: EN 61000-3-12: 2011

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

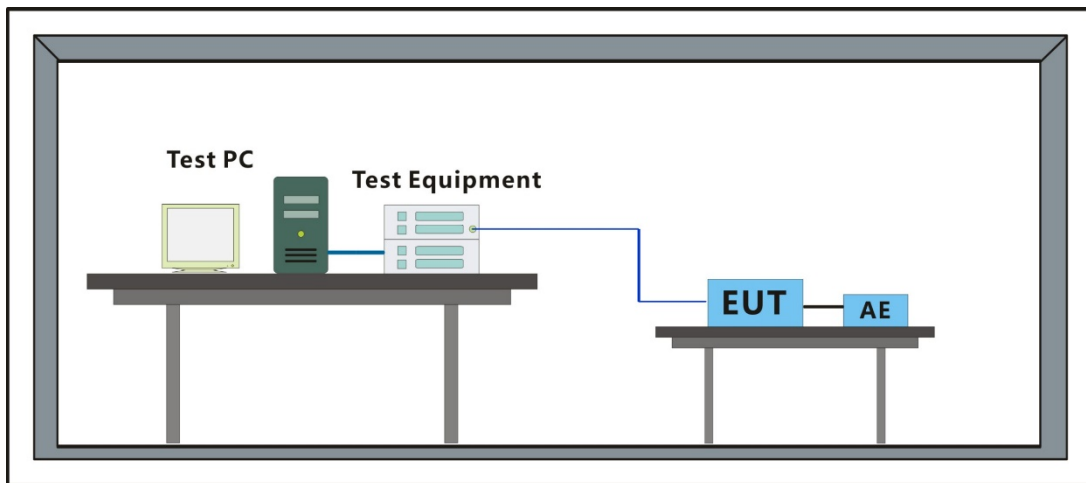
Humidity: 52.6 % RH

Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

Frequency Range: 100Hz to 2kHz



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Test Mode: 00;

Harmonics Current Test Report

Company	Test Engineer		
Model Name			
Type	Type of Test	EN61000-3-12(2011)	
Serial No.		EN61000-4-7(2002)/A1(2009)	
Operating Mode			
Date of Test	2022/1/27 16:58:48	Type of Equipment	Balanced 3-P
Climatic Condition		Power Analyzer	KHA3000, Ver3.40
Memo		Supply Source	
		Reference Impedance	Bypass
Tobs	Quasi-Stat		
Judgment Rsce	33	Wiring Method	3-Phase 4-Wire
Limit Values	Except Bal'd 3-P	Rated Voltage Ui	230 V
		Nominal Frequency	50 Hz
		Measuring Period	150 s
		Margin	100 %

Judgment

Final Test Result	Pass
L1 Test Result	Pass
L2 Test Result	Pass
L3 Test Result	Pass

Test Data of Total Values

Total Current (max)	22.43 A
Total Power (max)	15.429 kW
Total Power Factor (max)	0.9984
Total Apparent Power (max)	15.455 kVA
Total Reactive Power (max)	-0.925 kvar



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Test Data of L1 Harmonics Current

Voltage (max)	229.76 V	Rated Current I _{eq} (max)	22.4800 A
Current (max)	22.480 A	Sequ (max)	8955.40 VA
Reference Current I _{ref} (ave)	22.47 A	Ssc (max)	295528.1 W
Minimum R _{sce} (measured)	33.0	Z (max)	0.54 ohm

Order	Limit1[%]	Limit2[%]	Reading(In/Iref)		Reading		Judge
			Ave[%]	Max[%]	Ave[A rms]	Max[A rms]	
1	-----	-----	-----	-----	22.45	22.46	N/A
2	8.00	12.00	0.12	0.13	0.03	0.03	Pass
3	21.60	32.40	0.60	0.62	0.13	0.14	Pass
4	4.00	6.00	0.22	0.22	0.05	0.05	Pass
5	10.70	16.05	0.64	0.67	0.14	0.15	Pass
6	2.66	3.99	0.18	0.22	0.04	0.05	Pass
7	7.20	10.80	0.62	0.67	0.14	0.15	Pass
8	2.00	3.00	0.18	0.18	0.04	0.04	Pass
9	3.80	5.70	0.20	0.22	0.05	0.05	Pass
10	1.60	2.40	0.20	0.22	0.05	0.05	Pass
11	3.10	4.65	0.18	0.22	0.04	0.05	Pass
12	1.33	1.99	0.30	0.36	0.07	0.08	Pass
13	2.00	3.00	0.26	0.31	0.06	0.07	Pass
14	-----	-----	0.21	0.22	0.05	0.05	N/A
15	-----	-----	0.26	0.27	0.06	0.06	N/A
16	-----	-----	0.33	0.40	0.07	0.09	N/A
17	-----	-----	0.41	0.45	0.09	0.10	N/A
18	-----	-----	1.98	2.36	0.44	0.53	N/A
19	-----	-----	0.52	0.58	0.12	0.13	N/A
20	-----	-----	0.32	0.36	0.07	0.08	N/A
21	-----	-----	0.34	0.40	0.08	0.09	N/A
22	-----	-----	0.34	0.40	0.08	0.09	N/A
23	-----	-----	0.51	0.58	0.11	0.13	N/A
24	-----	-----	0.50	0.58	0.11	0.13	N/A
25	-----	-----	0.45	0.49	0.10	0.11	N/A
26	-----	-----	0.29	0.31	0.07	0.07	N/A
27	-----	-----	0.30	0.36	0.07	0.08	N/A
28	-----	-----	0.31	0.36	0.07	0.08	N/A
29	-----	-----	0.38	0.40	0.08	0.09	N/A
30	-----	-----	0.29	0.31	0.06	0.07	N/A
31	-----	-----	0.29	0.31	0.07	0.07	N/A
32	-----	-----	0.23	0.27	0.05	0.06	N/A
33	-----	-----	0.31	0.40	0.07	0.09	N/A
34	-----	-----	0.29	0.36	0.06	0.08	N/A
35	-----	-----	0.28	0.36	0.06	0.08	N/A
36	-----	-----	0.22	0.22	0.05	0.05	N/A
37	-----	-----	0.22	0.27	0.05	0.06	N/A
38	-----	-----	0.22	0.27	0.05	0.06	N/A
39	-----	-----	0.37	0.49	0.08	0.11	N/A
40	-----	-----	0.19	0.22	0.04	0.05	N/A
THC/Iref[%]	23.00	34.50	1.98	2.35	-----	-----	Pass
PWHC/Iref[%]	23.00	34.50	8.40	10.00	-----	-----	Pass

N/A : Not Apply



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Test Data of L2 Harmonics Current

Voltage (max)	229.76 V	Rated Current Ieq (max)	22.4200 A
Current (max)	22.420 A	Sequ (max)	8931.49 VA
Reference Current Iref (ave)	22.40 A	Ssc (max)	294739.3 W
Minimum Rsce (measured)	33.0	Z (max)	0.54 ohm

Order	Limit1[%]	Limit2[%]	Reading(In/Iref) Ave[%]	Reading Max[%]	Reading Ave[A rms]	Reading Max[A rms]	Judge
1	-----	-----	-----	-----	22.38	22.40	N/A
2	8.00	12.00	0.27	0.31	0.06	0.07	Pass
3	21.60	32.40	0.32	0.36	0.07	0.08	Pass
4	4.00	6.00	0.13	0.13	0.03	0.03	Pass
5	10.70	16.05	0.71	0.76	0.16	0.17	Pass
6	2.66	3.99	0.20	0.22	0.05	0.05	Pass
7	7.20	10.80	0.62	0.63	0.14	0.14	Pass
8	2.00	3.00	0.19	0.22	0.04	0.05	Pass
9	3.80	5.70	0.22	0.27	0.05	0.06	Pass
10	1.60	2.40	0.18	0.22	0.04	0.05	Pass
11	3.10	4.65	0.20	0.22	0.05	0.05	Pass
12	1.33	1.99	0.37	0.40	0.08	0.09	Pass
13	2.00	3.00	0.27	0.31	0.06	0.07	Pass
14	-----	-----	0.28	0.31	0.06	0.07	N/A
15	-----	-----	0.26	0.31	0.06	0.07	N/A
16	-----	-----	0.27	0.31	0.06	0.07	N/A
17	-----	-----	0.42	0.49	0.09	0.11	N/A
18	-----	-----	2.47	2.95	0.55	0.66	N/A
19	-----	-----	0.57	0.67	0.13	0.15	N/A
20	-----	-----	0.35	0.40	0.08	0.09	N/A
21	-----	-----	0.31	0.36	0.07	0.08	N/A
22	-----	-----	0.33	0.49	0.08	0.11	N/A
23	-----	-----	0.53	0.58	0.12	0.13	N/A
24	-----	-----	0.62	0.67	0.14	0.15	N/A
25	-----	-----	0.50	0.54	0.11	0.12	N/A
26	-----	-----	0.33	0.36	0.07	0.08	N/A
27	-----	-----	0.30	0.31	0.07	0.07	N/A
28	-----	-----	0.27	0.31	0.06	0.07	N/A
29	-----	-----	0.35	0.40	0.08	0.09	N/A
30	-----	-----	0.30	0.36	0.07	0.08	N/A
31	-----	-----	0.32	0.36	0.07	0.08	N/A
32	-----	-----	0.24	0.27	0.05	0.06	N/A
33	-----	-----	0.30	0.40	0.07	0.09	N/A
34	-----	-----	0.27	0.31	0.06	0.07	N/A
35	-----	-----	0.27	0.31	0.06	0.07	N/A
36	-----	-----	0.22	0.27	0.05	0.06	N/A
37	-----	-----	0.22	0.27	0.05	0.06	N/A
38	-----	-----	0.21	0.22	0.05	0.05	N/A
39	-----	-----	0.32	0.36	0.07	0.08	N/A
40	-----	-----	0.20	0.22	0.04	0.05	N/A
THC/Iref[%]	23.00	34.50	2.47	2.94	-----	-----	Pass
PWHC/Iref[%]	23.00	34.50	10.49	12.50	-----	-----	Pass

N/A : Not Apply



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Test Data of L3 Harmonics Current

Voltage (max)	229.67 V	Rated Current I _{eq} (max)	22.3800 A
Current (max)	22.380 A	Sequ (max)	8915.56 VA
Reference Current I _{ref} (ave)	22.37 A	Ssc (max)	294213.4 W
Minimum R _{sce} (measured)	33.0	Z (max)	0.54 ohm

Order	Limit1[%]	Limit2[%]	Reading(In/Iref)		Reading		Judge
			Ave[%]	Max[%]	Ave[A rms]	Max[A rms]	
1	-----	-----	-----	-----	22.35	22.37	N/A
2	8.00	12.00	0.22	0.22	0.05	0.05	Pass
3	21.60	32.40	0.27	0.31	0.06	0.07	Pass
4	4.00	6.00	0.22	0.27	0.05	0.06	Pass
5	10.70	16.05	0.76	0.80	0.17	0.18	Pass
6	2.66	3.99	0.27	0.27	0.06	0.06	Pass
7	7.20	10.80	0.54	0.58	0.12	0.13	Pass
8	2.00	3.00	0.26	0.27	0.06	0.06	Pass
9	3.80	5.70	0.14	0.18	0.03	0.04	Pass
10	1.60	2.40	0.26	0.27	0.06	0.06	Pass
11	3.10	4.65	0.18	0.18	0.04	0.04	Pass
12	1.33	1.99	0.27	0.31	0.06	0.07	Pass
13	2.00	3.00	0.24	0.27	0.05	0.06	Pass
14	-----	-----	0.29	0.36	0.07	0.08	N/A
15	-----	-----	0.23	0.27	0.05	0.06	N/A
16	-----	-----	0.32	0.36	0.07	0.08	N/A
17	-----	-----	0.47	0.54	0.11	0.12	N/A
18	-----	-----	1.00	1.16	0.22	0.26	N/A
19	-----	-----	0.45	0.49	0.10	0.11	N/A
20	-----	-----	0.38	0.45	0.09	0.10	N/A
21	-----	-----	0.30	0.36	0.07	0.08	N/A
22	-----	-----	0.36	0.40	0.08	0.09	N/A
23	-----	-----	0.55	0.58	0.12	0.13	N/A
24	-----	-----	0.41	0.49	0.09	0.11	N/A
25	-----	-----	0.46	0.49	0.10	0.11	N/A
26	-----	-----	0.35	0.40	0.08	0.09	N/A
27	-----	-----	0.32	0.36	0.07	0.08	N/A
28	-----	-----	0.32	0.36	0.07	0.08	N/A
29	-----	-----	0.41	0.45	0.09	0.10	N/A
30	-----	-----	0.29	0.31	0.07	0.07	N/A
31	-----	-----	0.31	0.36	0.07	0.08	N/A
32	-----	-----	0.25	0.27	0.06	0.06	N/A
33	-----	-----	0.23	0.27	0.05	0.06	N/A
34	-----	-----	0.23	0.27	0.05	0.06	N/A
35	-----	-----	0.27	0.31	0.06	0.07	N/A
36	-----	-----	0.21	0.22	0.05	0.05	N/A
37	-----	-----	0.24	0.27	0.05	0.06	N/A
38	-----	-----	0.24	0.27	0.05	0.06	N/A
39	-----	-----	0.31	0.45	0.07	0.10	N/A
40	-----	-----	0.18	0.22	0.04	0.05	N/A
THC/Iref[%]	23.00	34.50	0.58	1.16	-----	-----	Pass
PWHC/Iref[%]	23.00	34.50	2.49	4.93	-----	-----	Pass

N/A : Not Apply



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN IEC 61000-6-3: 2021
Test Method: EN IEC 61000-3-11: 2019

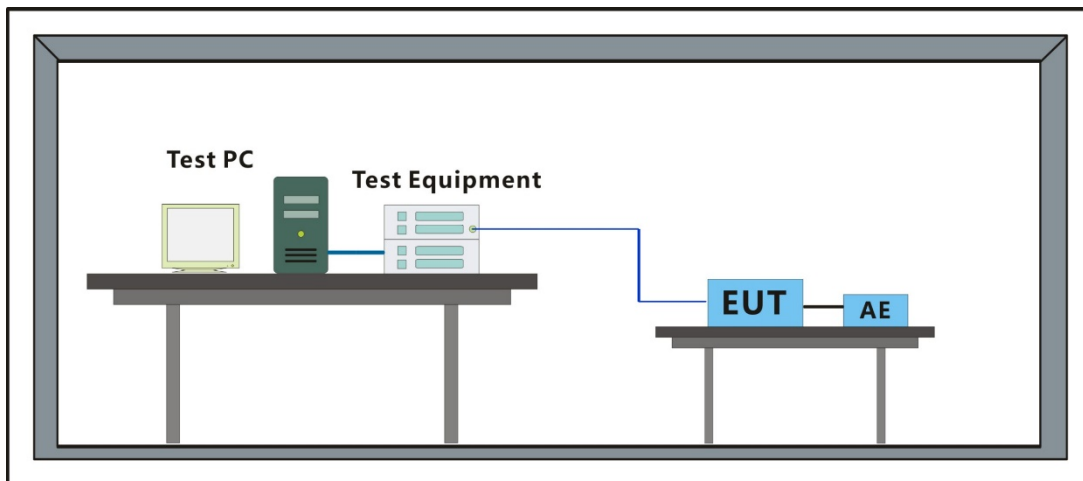
6.5.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 52.6 % RH Atmospheric Pressure: 1010 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data



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Test Mode: 00;

Voltage Fluctuation and Flicker Test Report

Company Model Name	0883	Test Engineer	Jerry Zhang
Type Serial No.		Type of Test	EN61000-3-11(2000)
Operating Mode			
Date of Test	2022/1/27 17:20:22		
Climatic Condition Memo		Power Analyzer	KHA3000, Ver3.40
		Supply Source	
		Reference Impedance	

Summary of Test Condition

Wiring Method	3-Phase 4-Wire	Pst Measurement Time	600 s
Nominal Voltage	230.0 V	Pst Measurement Count	1
Nominal Frequency	50.0 Hz	Flicker Margin	100 %
		d Measurement Margin	100 %
		Z test	Ra test 0.15 ohm
			Xa test 0.15 ohm
			Rn test 0.10 ohm
			Xn test 0.10 ohm

Judgment

Final Test Result	Pass
L1 Test Result	Pass
L2 Test Result	Pass
L3 Test Result	Pass



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Setting List

Items	Contents		
Limitation Standard	IEC 61000-3-11 Ed1.0		
Measurement Technic	IEC 61000-4-15 Ed2.0 (2010)		
Voltage Range	L1 600V,	L2 600V,	L3 600V
Current Range	L1 40 A,	L1 40 A,	L1 40 A,
Nominal Voltage	230 V		
Nominal Frequency	50 Hz		
Wiring Method	3P4W		
PLL Source	Voltage L1		
Pst Measurement Time	10min 0s		
Pst Measurement Count	1		
dmax Limit Value	4 %		
Flicker Margin	100 %		
d Margin	100 %		
Judge Factor	Plt:Yes, Pst:Yes, dc:Yes, dmax:Yes, d(t)>3.3%:Yes		
Test Impedance Z test	0.15 ohm + jn0.15 ohm (3P)		
Test Impedance Ra test, Xa test	---		
Test Impedance Rn test, Xn test	---		
Current Input Terminal	L1 BNC,	L2 BNC,	L3 BNC
Reference Impedance	Use		
Reference Impedance Value	Z3		



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7 Immunity Test Results

Performance Criteria Description in EN IEC 61000-6-1:2019

Criterion A

The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion B

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

Criterion C

Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.



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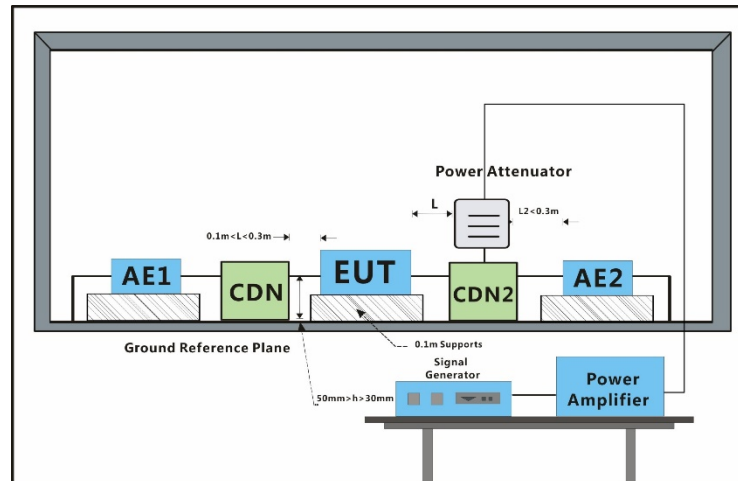
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7.1 Conducted Immunity at AC Mains Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-6:2014

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 51.6 % RH

Atmospheric Pressure: 1010 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

7.1.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size: 1%

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3(0.15MHz-80MHz)	CDN	3s	A

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



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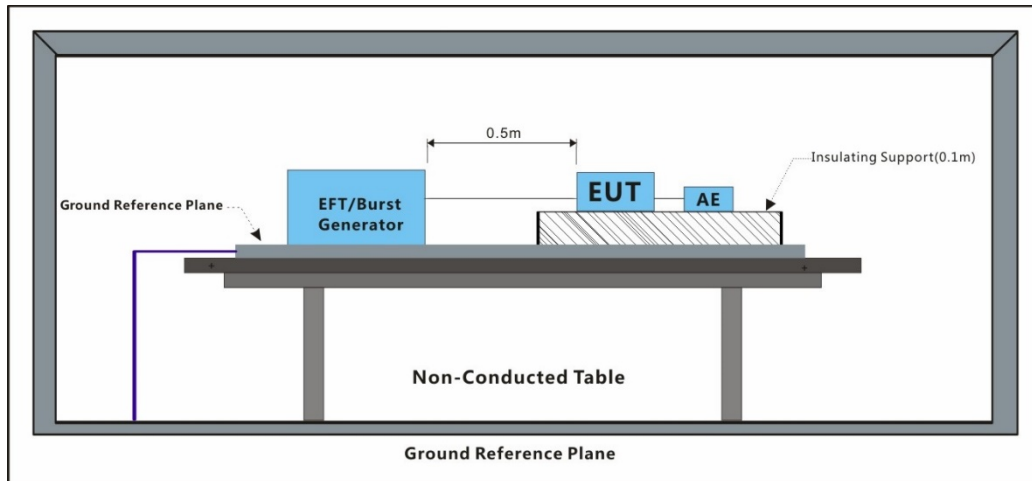
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7.2 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-4:2012

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 52.6 % RH

Atmospheric Pressure: 1010 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

7.2.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz or 100kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A

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



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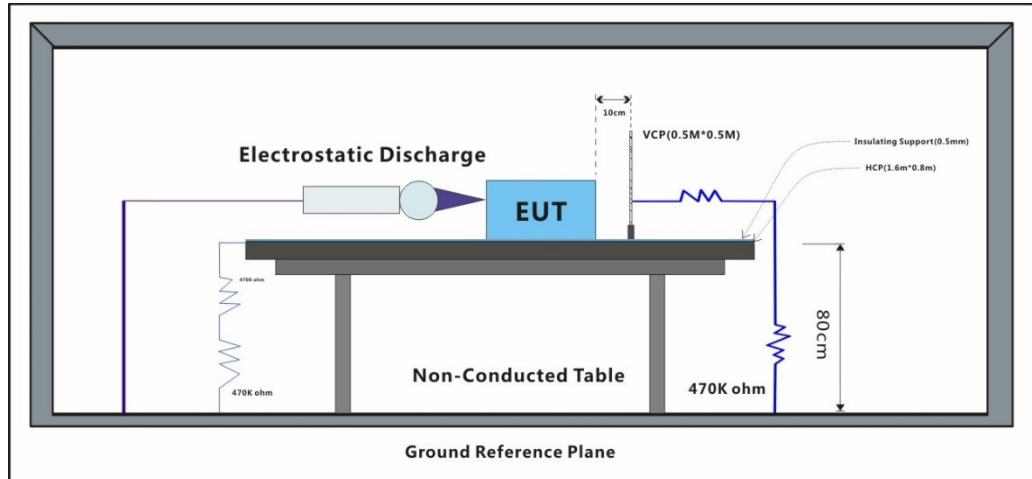
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7.3 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-2:2009

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

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

7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.
Final test	01	Discharging Mode.

7.3.4 Test Condition and Results:

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



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Report No.: KSEM230500111101

Page: 43 of 61

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A
A: No degradation in the performance of the EUT was observed				



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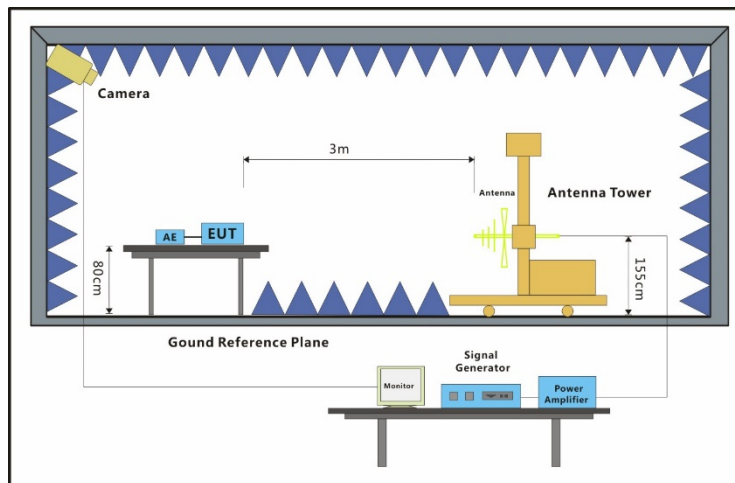
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7.4 Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

Test Requirement: EN IEC 61000-6-1: 2019

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

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 52.5 % RH

Atmospheric Pressure: 1010 mbar

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.
Final test	01	Discharging Mode.

7.4.4 Test Condition and Results:

Performance Criterion:A

Antenna Polarisation:Vertical and Horizontal

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

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

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



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Report No.: KSEM230500111101

Page: 45 of 61

80MHz-1GHz	3	Right	3s	A
80MHz-1GHz	3	Top	3s	A
80MHz-1GHz	3	Underside	3s	A
1.4GHz-6GHz	3	Front	3s	A
1.4GHz-6GHz	3	Back	3s	A
1.4GHz-6GHz	3	Left	3s	A
1.4GHz-6GHz	3	Right	3s	A
1.4GHz-6GHz	3	Top	3s	A
1.4GHz-6GHz	3	Underside	3s	A
A: No degradation in the performance of the EUT was observed				



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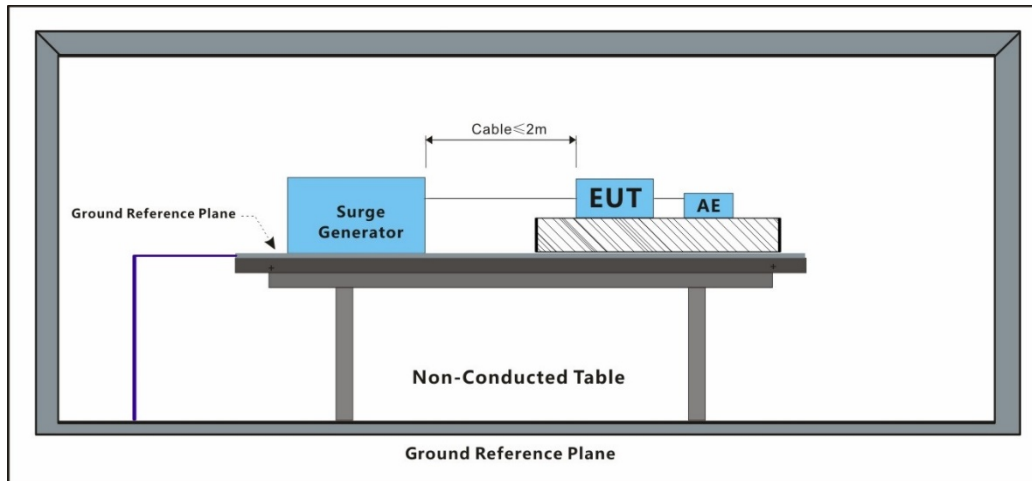
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7.5 Surge at AC Mains Power Port

Test Requirement: EN IEC 61000-6-1: 2019

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

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 51.8 % RH

Atmospheric Pressure: 1010 mbar

7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

7.5.4 Test Condition and Results:

Performance Criterion: B

Interval: 60s between each surge

No. of surges: 5 positive, 5 negative at 0°, 90°, 180°, 270°.

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L1-L2	1	±	0°	A
L1-L2	1	±	90°	A
L1-L2	1	±	180°	A
L1-L2	1	±	270°	A



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Report No.: KSEM230500111101

Page: 47 of 61

L2-L3	1	±	0°	A
L2-L3	1	±	90°	A
L2-L3	1	±	180°	A
L2-L3	1	±	270°	A
L3-L1	1	±	0°	A
L3-L1	1	±	90°	A
L3-L1	1	±	180°	A
L3-L1	1	±	270°	A
N-L1	1	±	0°	A
N-L1	1	±	90°	A
N-L1	1	±	180°	A
N-L1	1	±	270°	A
N-L2	1	±	0°	A
N-L2	1	±	90°	A
N-L2	1	±	180°	A
N-L2	1	±	270°	A
N-L3	1	±	0°	A
N-L3	1	±	90°	A
N-L3	1	±	180°	A
N-L3	1	±	270°	A
L1-PE	2	±	0°	A
L1-PE	2	±	90°	A
L1-PE	2	±	180°	A
L1-PE	2	±	270°	A
L2-PE	2	±	0°	A
L2-PE	2	±	90°	A
L2-PE	2	±	180°	A
L2-PE	2	±	270°	A
L3-PE	2	±	0°	A
L3-PE	2	±	90°	A
L3-PE	2	±	180°	A
L3-PE	2	±	270°	A
L3-PE	2	±	0°	A
L3-PE	2	±	90°	A
L3-PE	2	±	180°	A
L3-PE	2	±	270°	A



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM230500111101

Page: 48 of 61

N-PE	2	±	0°	A
N-PE	2	±	90°	A
N-PE	2	±	180°	A
N-PE	2	±	270°	A
A: No degradation in the performance of the EUT was observed				



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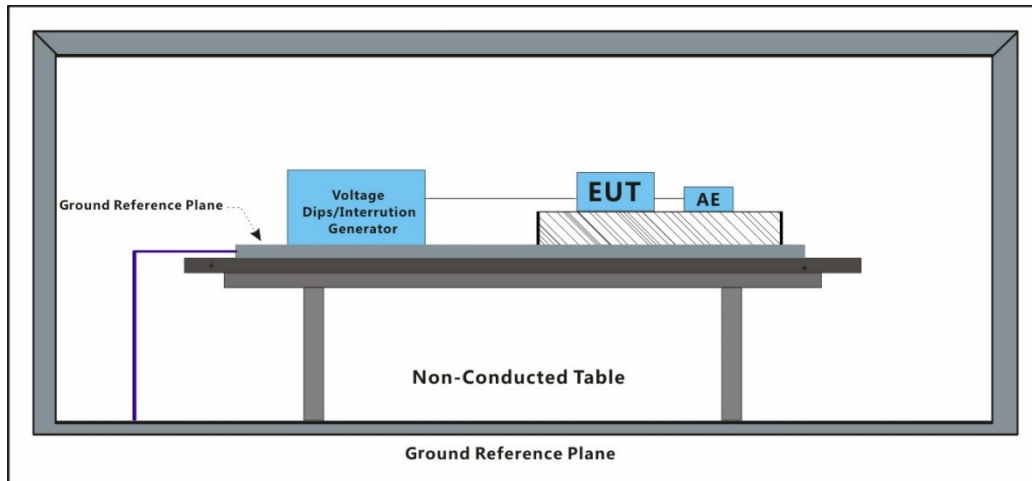
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7.6 Voltage Dips and Interruptions

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN IEC 61000-4-11:2020

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

Humidity: 52.4 % RH

Atmospheric Pressure: 1010 mbar

7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charging Mode.

7.6.4 Test Condition and Results:

Performance Criterion:

0% of UT (Supply Voltage) for 0.5 Cycle:B;

0% of UT for 1 Cycle:B;

0% of UT for 250 Cycles:C;

70% of UT for 25 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 Cycles	3	A
0	180°	0.5 Cycles	3	A



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSEM230500111101

Page: 50 of 61

0	0°	1 Cycles	3	A
0	180°	1 Cycles	3	A
70	0°	25 Cycles	3	A
70	180°	25 Cycles	3	A
0	0°	250 Cycles	3	B
0	180°	250 Cycles	3	B

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

B: During the test,the EUT working abnormally.

After the test,the EUT automatically recovering working normally.



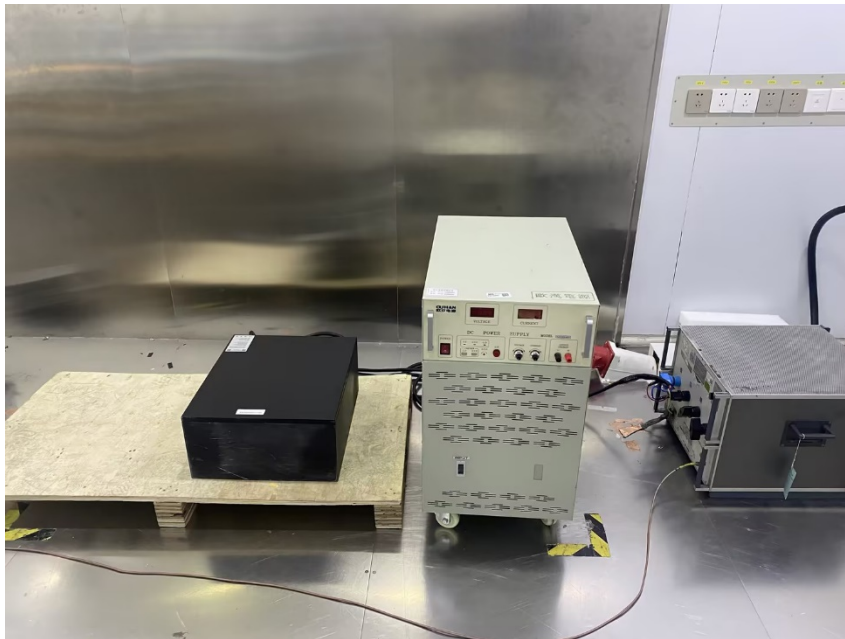
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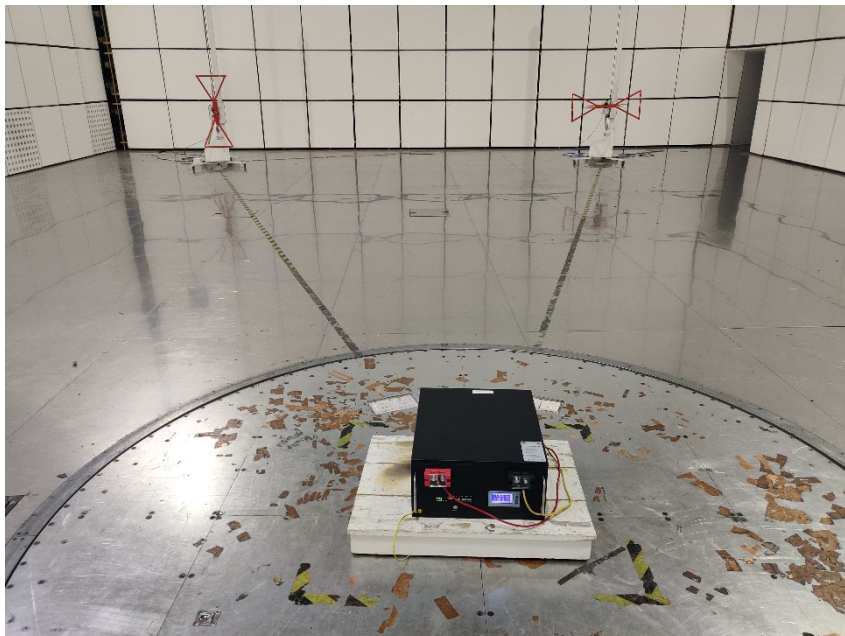
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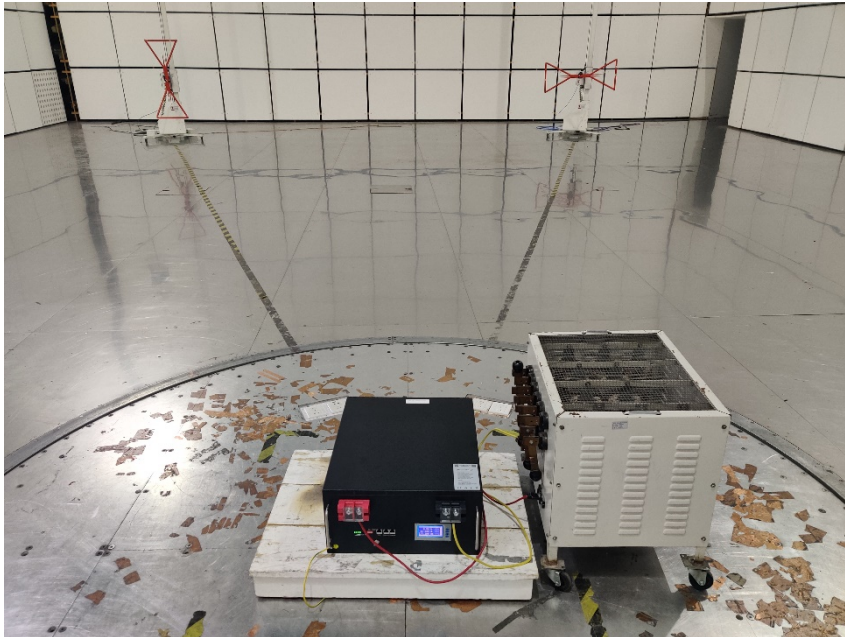
8 Test Setup Photo

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

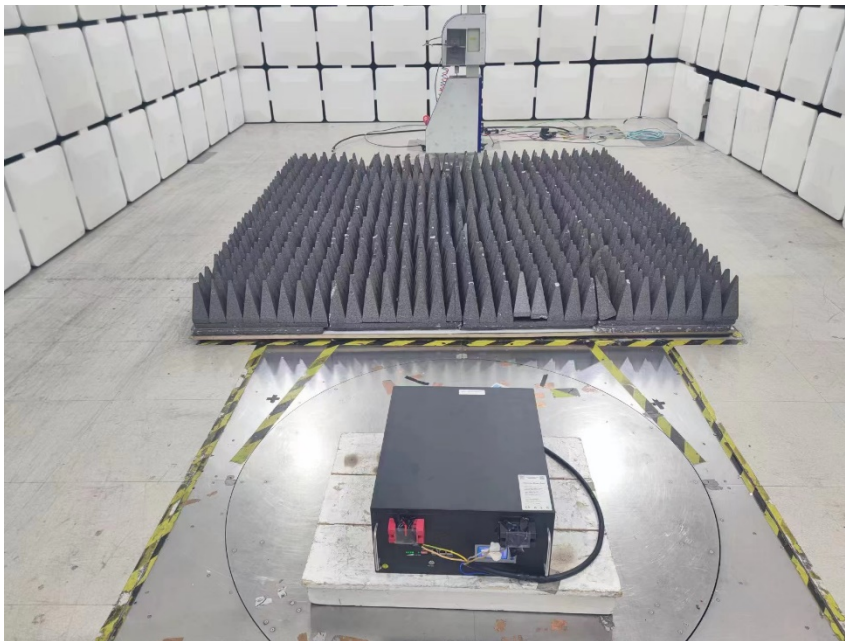


Radiated Emissions (30MHz-1GHz)





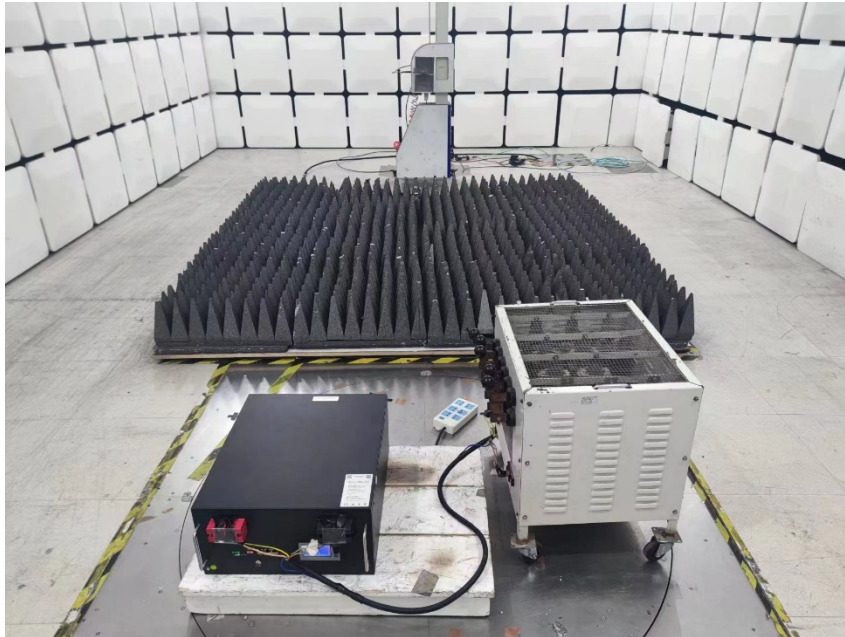
Radiated Emissions (Above 1GHz)



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Harmonic Current Emission



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Voltage Fluctuations and Flicker



Conducted Immunity at AC Mains Power Port (150kHz-80MHz)



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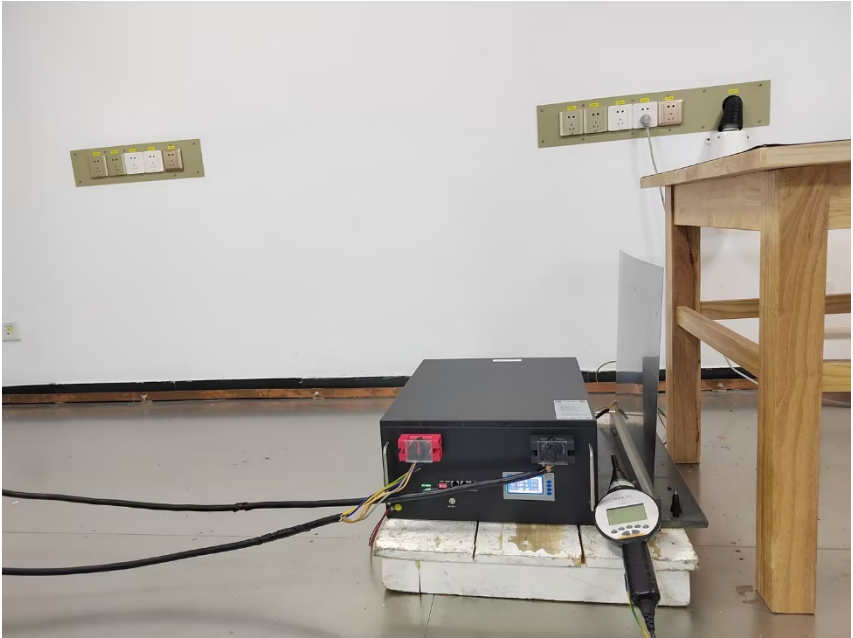
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Electrical Fast Transients Burst at AC Mains Power Port



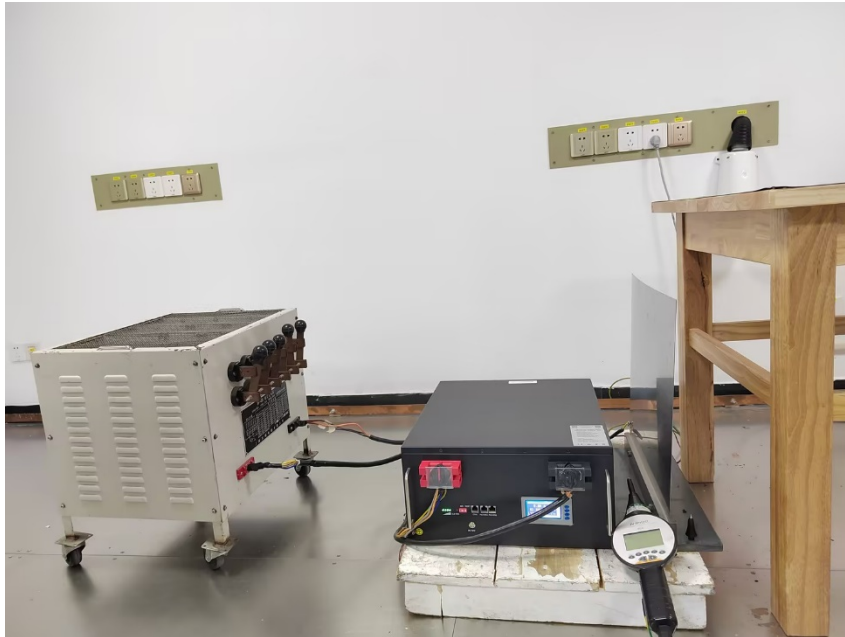
Electrostatic Discharge



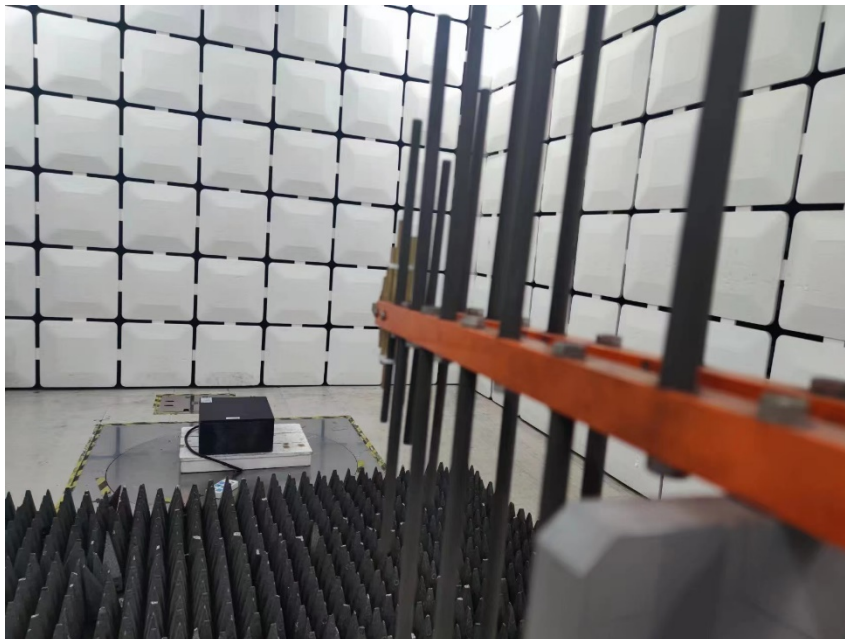
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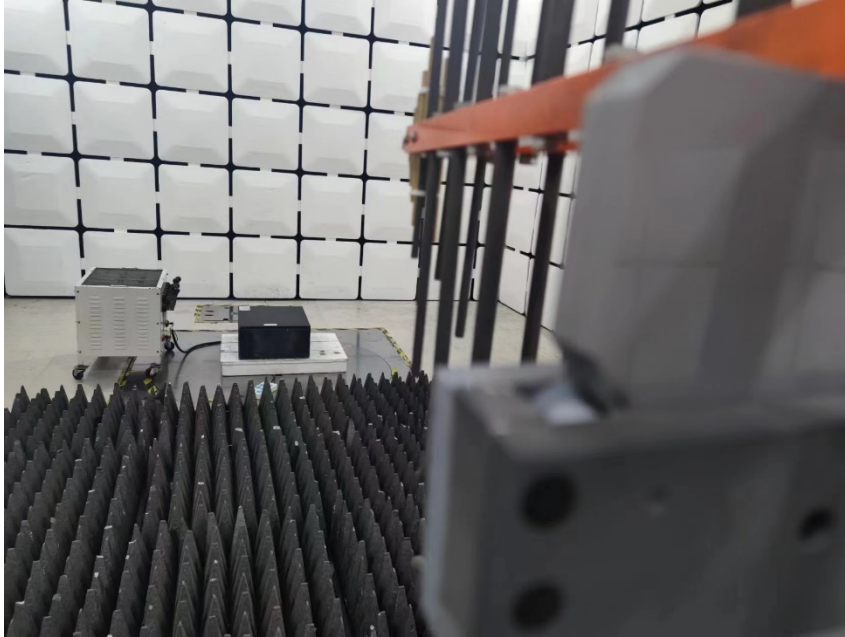
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)



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Surge at AC Mains Power Port



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Voltage Dips and Interruptions

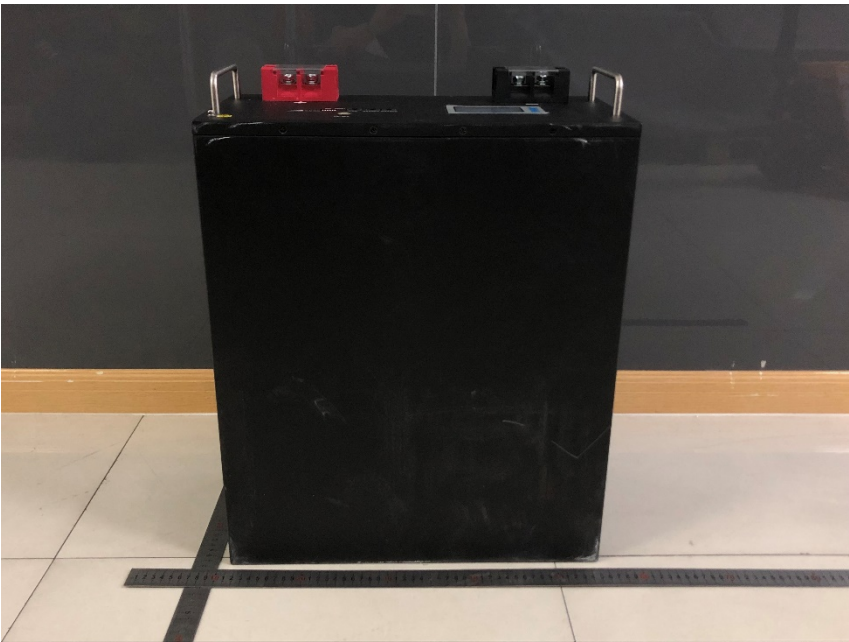
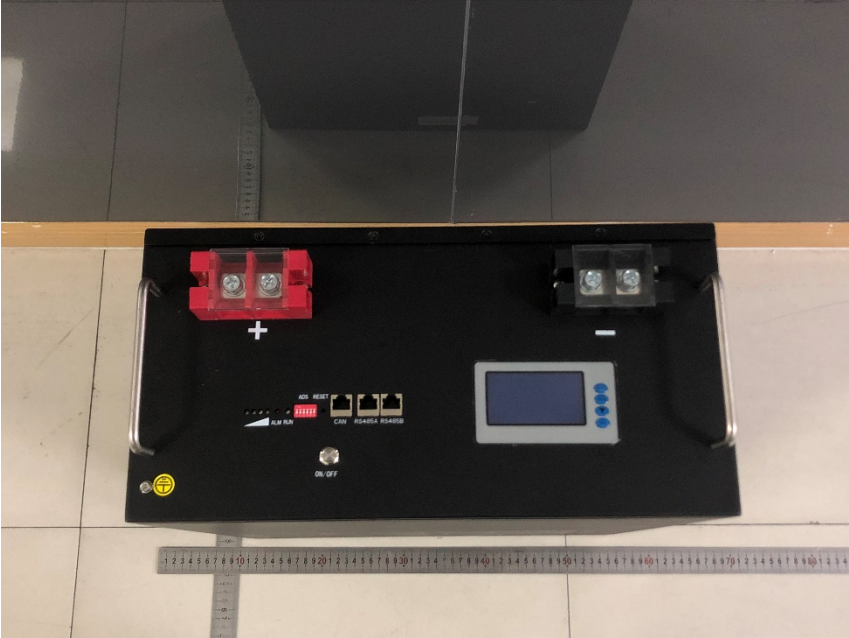


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9 EUT Construnctional Details (EUT Photos)



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