

TEST REPORT

Application No.: SZEM2601000887AT
Applicant: Shenzhen Xinglian Technology Research & Development Co., Ltd.
Address of Applicant: 4A702, No. 4 Factory Building, No. 7, Ganli Sixth Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China
Manufacturer: Shenzhen Xinglian Technology Research & Development Co., Ltd.
Address of Manufacturer: 4A702, No. 4 Factory Building, No. 7, Ganli Sixth Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China
Factory: Shenzhen Xinglian Technology Research & Development Co., Ltd.
Address of Factory: 4A702, No. 4 Factory Building, No. 7, Ganli Sixth Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Air Quality Monitor
Model No.: DA10
Standard(s) : EN IEC 55014-1: 2021
 EN 61000-3-3: 2013 +A1:2019 +A2:2021
 EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024
 EN IEC 55014-2: 2021
Date of Receipt: 2026-01-26
Date of Test: 2026-01-27 to 2026-02-03
Date of Issue: 2026-02-06

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kenly Xu

Kenly Xu
EMC Laboratory Manager



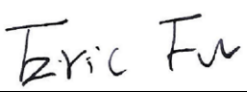
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-02-06		Original

Authorized for issue by:				
				
		Foray Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	EN IEC 55014-1: 2021	CISPR 16-2-1: 2014 +A1:2017	Table 5	Pass
Radiated Emissions (30MHz-1GHz)		CISPR 16-2-3: 2016 +A1:2019 +A2:2023	Table 9	Pass
Harmonic Current Emission	EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024	EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024	N/A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3: 2013 +A1:2019 +A2:2021	EN 61000-3-3: 2013 +A1:2019 +A2:2021	Clause 5	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 55014-2: 2021	EN 61000-4-2: 2009	4kV Contact Discharge, 8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz)		EN IEC 61000-4-3: 2020	3V/m, 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 Repetition Frequency	Pass
Surge at AC Mains Power Port		EN 61000-4-5: 2014 +A1:2017	1.2/50µs Tr/Td, 1kV Line to Line	Pass
Conducted Immunity at AC Mains Power Port (150kHz-230MHz)		EN IEC 61000-4-6: 2023	3Vrms (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11: 2020	For 50Hz: 0 % UT for 0.5cycle, 40 % UT for 10cycles, 70 % UT for 25cycles; For 60Hz: 0 % UT for 0.5cycle, 40 % UT for 12cycles, 70 % UT for 30cycles, UT is Supply Voltage	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC5V Rechargeable battery: DC3.7V 1500mAh
Cable(s):	USB charge cable: 1m unshielded

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Harmonic Current Emission	$\pm 4.2\%$
Voltage Fluctuations and Flicker	$\pm 4.2\%$
Electrostatic Discharge	$\pm 8\%$
Radiated Immunity (80MHz-1GHz)	$\pm 1.74\text{dB}$
Electrical Fast Transients Burst at AC Mains Power Port	$\pm 5\%$
Surge at AC Mains Power Port	$\pm 5.8\%$
Conducted Immunity at AC Mains Power Port (150kHz-230MHz)	$\pm 1.49\text{dB}$
Voltage Dips and Interruptions	$\pm 5.8\%$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI 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.

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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: Monitored the display of the EUT

Audio: 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
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-02	2027-02-01

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
AC Power Source	California Instruments	5001ix	SEM016-02	2025-07-15	2026-07-14
Power Analyzer	California Instruments	PACS-1	SEM016-01	2025-07-15	2026-07-14
Measurement Software	California Instruments	CTS 4.0 V4.33.0	N/A	N/A	N/A

Electrostatic Discharge					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
ESD Generator	TESEQ AG	NSG 437	SEM019-06	2025-12-15	2026-12-14



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Radiated Immunity (80MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	Rohde & Schwarz	NRP-Z92	SEM009-17	2025-07-23	2026-07-22
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2023-06-19	2026-06-18
Stacked Log.-Per.-Broadband Antenna	Schwarzbeck	STLP 9129	SEM003-25	N/A	N/A
Signal Generator	Rohde & Schwarz	SMB100A	SEM006-11	2026-02-02	2027-02-01
Broadband Amplifier	Rohde & Schwarz	BBA150-BC250	SEM005-12	2025-07-23	2026-07-22
Measurement Software	Rohde & Schwarz	EMC32 V9.25.00	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
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2025-03-03	2026-03-02

Surge at AC Mains Power Port					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2025-03-03	2026-03-02

Conducted Immunity at AC Mains Power Port (150kHz-230MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	TST PASS	N/A	SEM001-17	2024-09-11	2027-09-10
RF-Generator	SCHAFFNER	NSG 2070	SEM006-01	2025-07-23	2026-07-22
Coupling/Decoupling Network	SCHAFFNER	CDN M016	SEM007-03	2026-02-02	2027-02-01

Voltage Dips and Interruptions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2025-03-03	2026-03-02

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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6 Emission Test Results

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

Test Requirement: EN IEC 55014-1: 2021
 Test Method: CISPR 16-2-1: 2014 +A1:2017
 Test Engineer: Mason Wu

Limit:

0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
 0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average
 5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

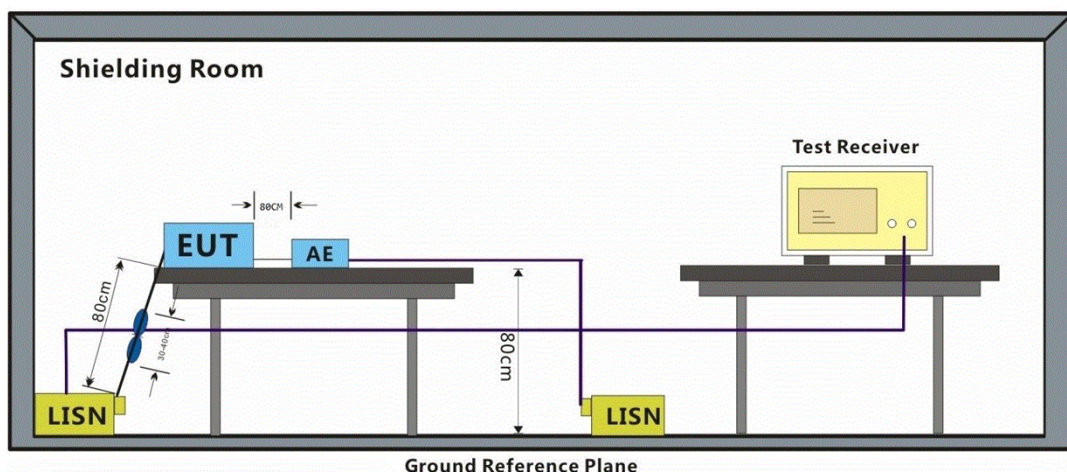
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Frequency Range: 150kHz to 30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor



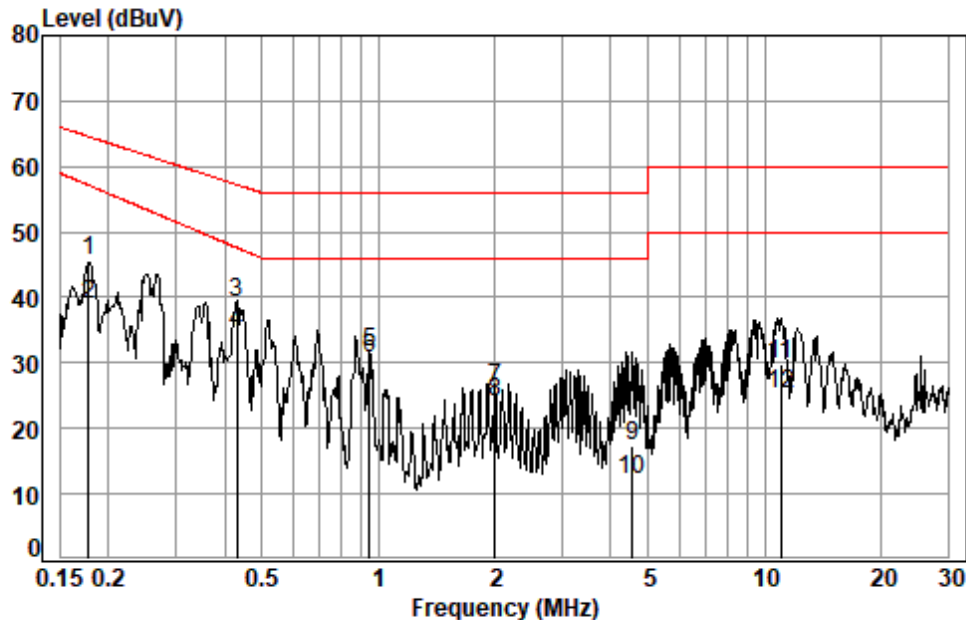
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Test Mode: 00; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00887AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1777	0.06	9.63	35.84	45.53	64.59	-19.06	QP
2	0.1777	0.06	9.63	29.14	38.83	57.17	-18.34	Average
3 *	0.4305	0.09	9.63	29.59	39.31	57.24	-17.93	QP
4 *	0.4305	0.09	9.63	24.94	34.66	47.62	-12.96	Average
5	0.9481	0.11	9.67	21.72	31.50	56.00	-24.50	QP
6	0.9481	0.11	9.67	20.92	30.70	46.00	-15.30	Average
7	2.0012	0.12	9.72	16.30	26.14	56.00	-29.86	QP
8	2.0012	0.12	9.72	14.18	24.02	46.00	-21.98	Average
9	4.5494	0.14	9.95	7.27	17.36	56.00	-38.64	QP
10	4.5494	0.14	9.95	2.07	12.16	46.00	-33.84	Average
11	11.0211	0.15	10.86	18.78	29.79	60.00	-30.21	QP
12	11.0211	0.15	10.86	14.37	25.38	50.00	-24.62	Average



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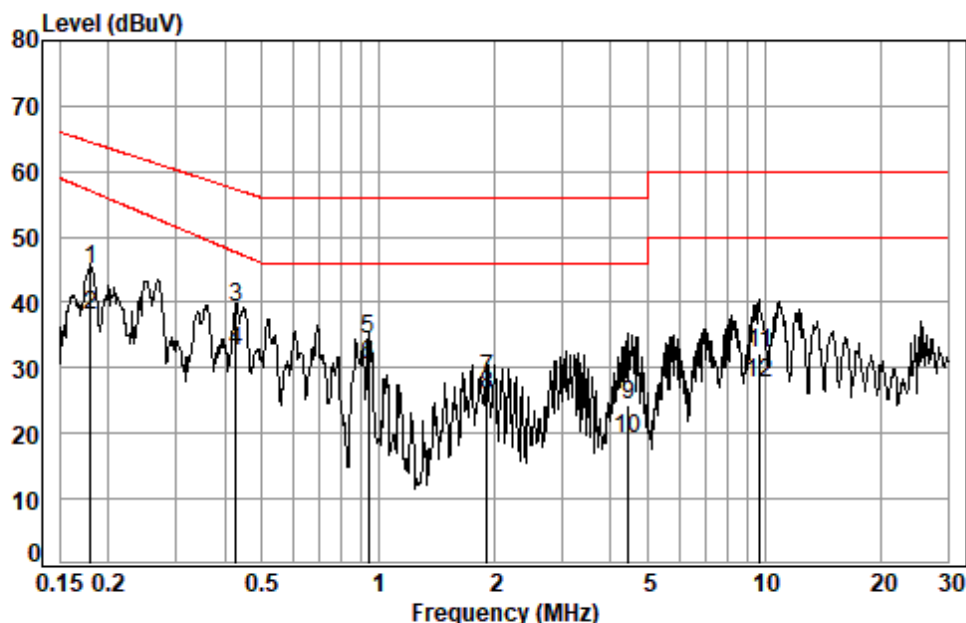
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Test Mode: 00; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00887AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1796	0.07	9.67	35.30	45.04	64.50	-19.46	QP
2	0.1796	0.07	9.67	28.37	38.11	57.05	-18.94	Average
3 *	0.4282	0.09	9.62	29.46	39.17	57.29	-18.12	QP
4 *	0.4282	0.09	9.62	22.99	32.70	47.67	-14.97	Average
5	0.9431	0.11	9.66	24.65	34.42	56.00	-21.58	QP
6	0.9431	0.11	9.66	20.65	30.42	46.00	-15.58	Average
7	1.9080	0.12	9.72	18.50	28.34	56.00	-27.66	QP
8	1.9080	0.12	9.72	15.90	25.74	46.00	-20.26	Average
9	4.4540	0.14	9.94	14.20	24.28	56.00	-31.72	QP
10	4.4540	0.14	9.94	8.93	19.01	46.00	-26.99	Average
11	9.7051	0.15	10.69	21.55	32.39	60.00	-27.61	QP
12	9.7051	0.15	10.69	16.87	27.71	50.00	-22.29	Average



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN IEC 55014-1: 2021
 Test Method: CISPR 16-2-3: 2016 +A1:2019 +A2:2023
 Measurement Distance: 3m
 Test Engineer: Mason Wu

Limit:

FREQUENCY (MHz)	dBuV/m (At 10m)	dBuV/m (At 3m)
	Class B	Class B
30 ~ 230	30	40
230 ~ 1000	37	47
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

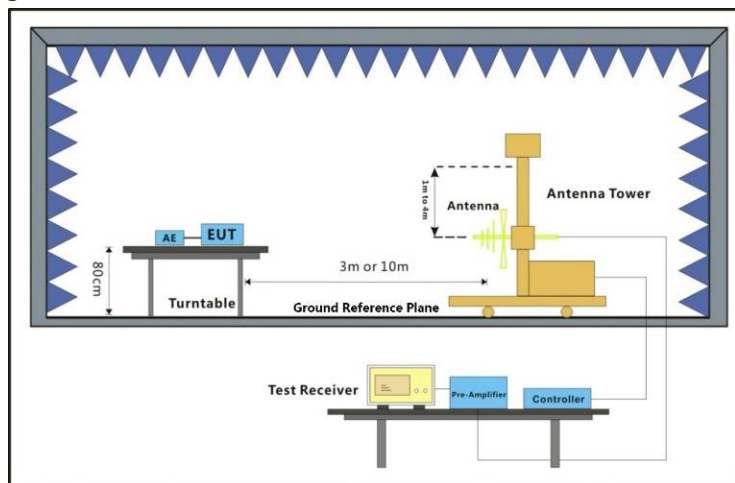
6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.
Pre-scan	01	On mode, keep EUT working normally.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

Frequency Range: 30MHz to 1GHz

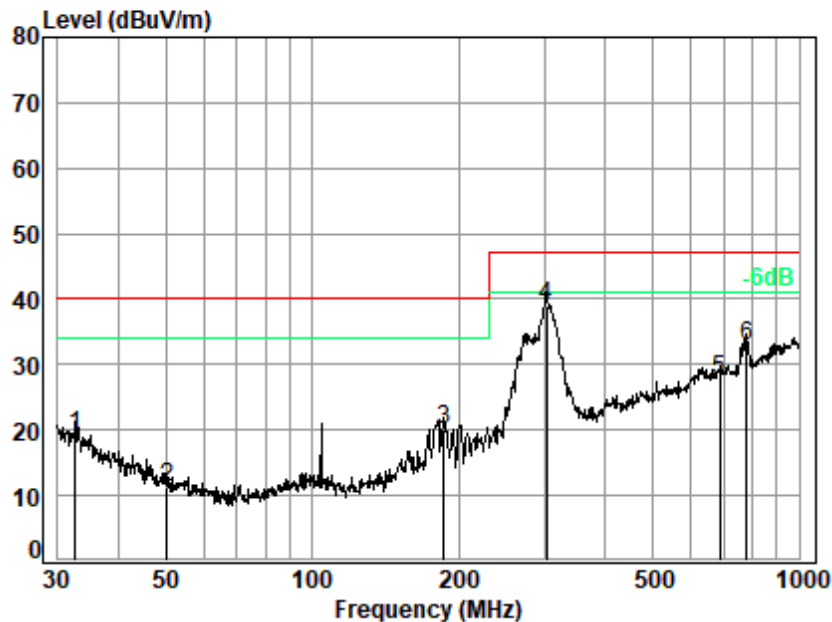
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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

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



Test Mode: 00; Polarity: Horizontal

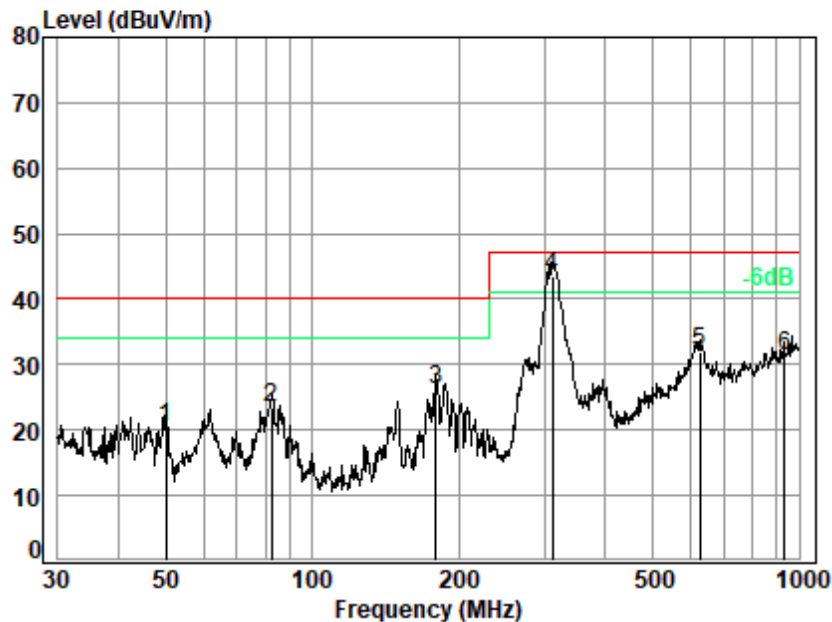


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00887AT
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.634	20.04	0.76	27.65	26.03	19.18	40.00	-20.82 QP
2	50.232	12.99	0.90	27.63	25.06	11.32	40.00	-28.68 QP
3	186.441	14.41	1.65	27.78	31.73	20.01	40.00	-19.99 QP
4 q	302.481	17.98	2.12	27.51	46.48	39.07	47.00	-7.93 QP
5	687.151	25.67	3.37	27.86	26.57	27.75	47.00	-19.25 QP
6	779.607	27.93	3.64	27.64	28.78	32.71	47.00	-14.29 QP



Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00887AT
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	50.057	13.03	0.90	27.63	34.09	20.39	40.00	-19.61 QP
2	82.359	10.87	1.12	27.61	39.03	23.41	40.00	-16.59 QP
3	179.386	14.37	1.62	27.77	38.01	26.23	40.00	-13.77 QP
4 q	311.087	18.38	2.16	27.53	50.62	43.63	47.00	-3.37 QP
5	625.078	24.66	3.18	28.03	32.09	31.90	47.00	-15.10 QP
6	932.272	28.86	4.04	26.78	25.21	31.33	47.00	-15.67 QP



6.3 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024

Test Method: EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024

Test Engineer: Sean Xiao

6.3.1 Conclusion

There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with EN IEC 61000-3-2: 2019+A1:2021+A2:2024.

For further details, please refer to Clause 7 of EN IEC 61000-3-2: 2019+A1:2021+A2:2024 which states: "For the following categories of equipment, limits are not specified in this standard.

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



6.4 Voltage Fluctuations and Flicker

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

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

Test Engineer: Sean Xiao

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

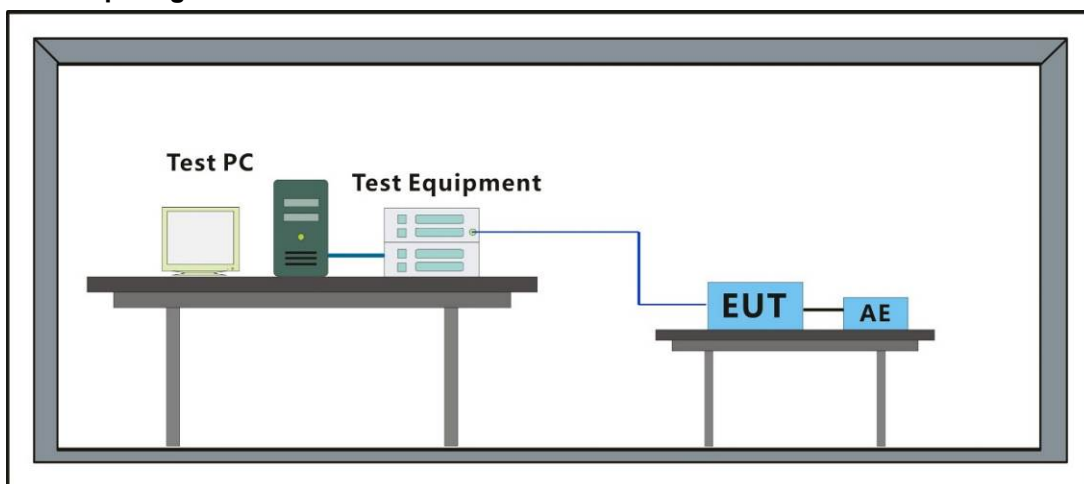
Humidity: 48.0 % RH

Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

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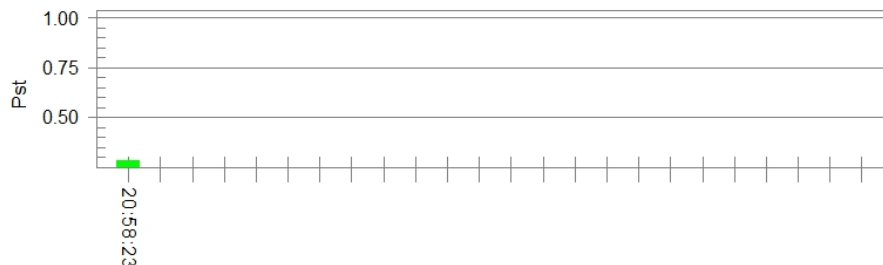
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Test Result: Pass

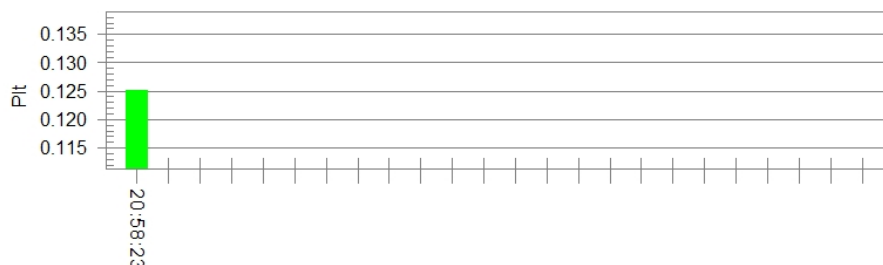
Status: Test Completed

Pst and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt): 229.92

Highest dt (%):

T-max (mS): 0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.286

Test limit (%):

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass



7 Immunity Test Results

Performance Criteria Description in EN IEC 55014-2:2021

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



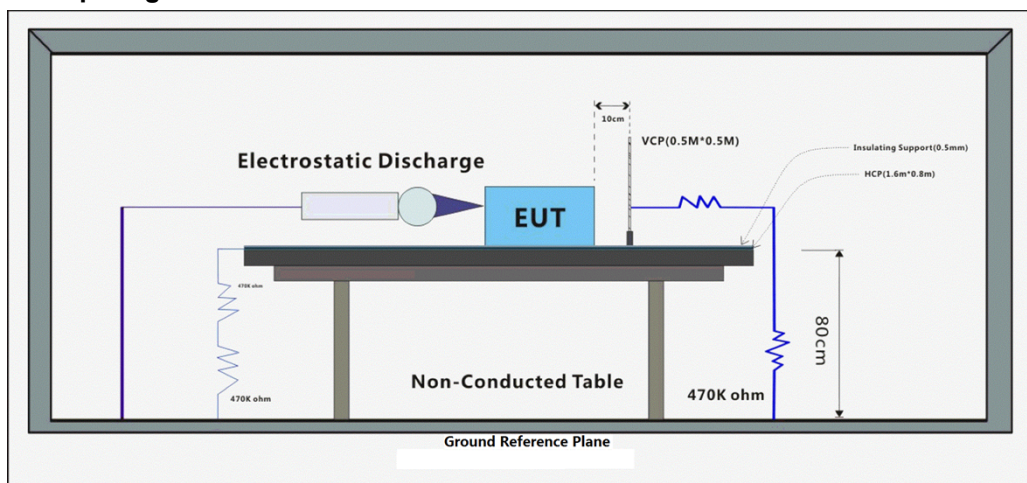
7.1 Electrostatic Discharge

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-2: 2009

Test Engineer: Wade Li

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

Humidity: 41.2 % RH

Atmospheric Pressure: 1020 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.
Final test	01	On mode, keep EUT working normally.
Final test	02	Idle mode, keep EUT standby.



7.1.4 Test Condition and Results:

Performance Criterion: B

Discharge Impedance: 330 Ω / 150 pF

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

Polarity: Positive & Negative

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge

Discharge Period: 1 second minimum

Test Point 1: All insulated enclosure & seams.

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

Test Point 3: All sides.

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

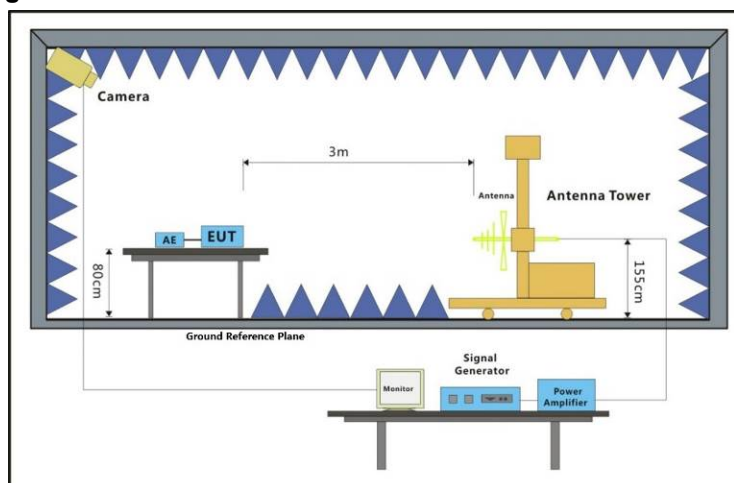
A: No degradation in the performance of the EUT was observed



7.2 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN IEC 55014-2: 2021
 Test Method: EN IEC 61000-4-3: 2020
 Test Engineer: Wade Li

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 48.6 % RH Atmospheric Pressure: 1020 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	On mode, keep EUT working normally.
Final test	02	Idle mode, keep EUT standby.

7.2.4 Test Condition and Results:

Performance Criterion: A
 Frequency Range: 80MHz to 1GHz
 Antenna Polarisation: Vertical and Horizontal
 Modulation 1kHz, 80% Amp. Mod, 1% increment



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Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A
A: No degradation in the performance of the EUT was observed				



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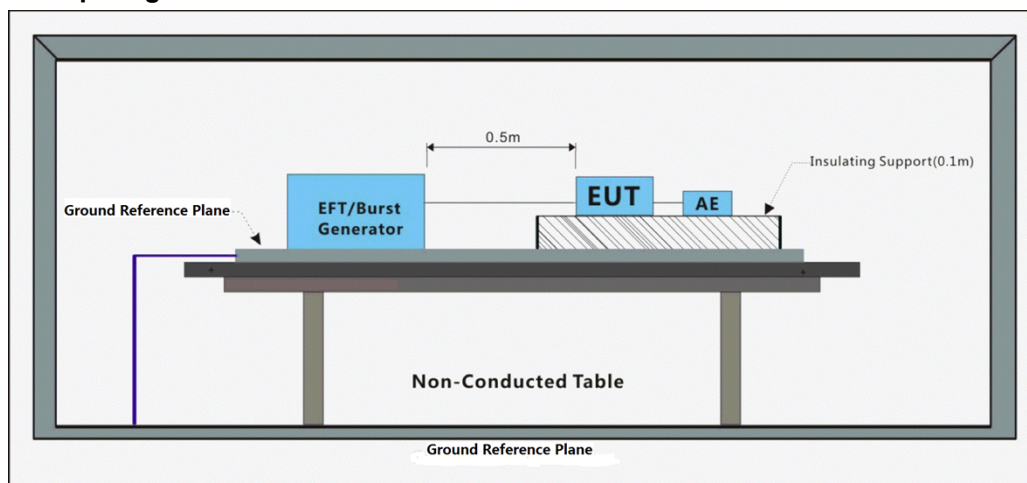
7.3 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-4: 2012

Test Engineer: Sean Xiao

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

Humidity: 48.0 % RH

Atmospheric Pressure: 1020 mbar

7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.

7.3.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz

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

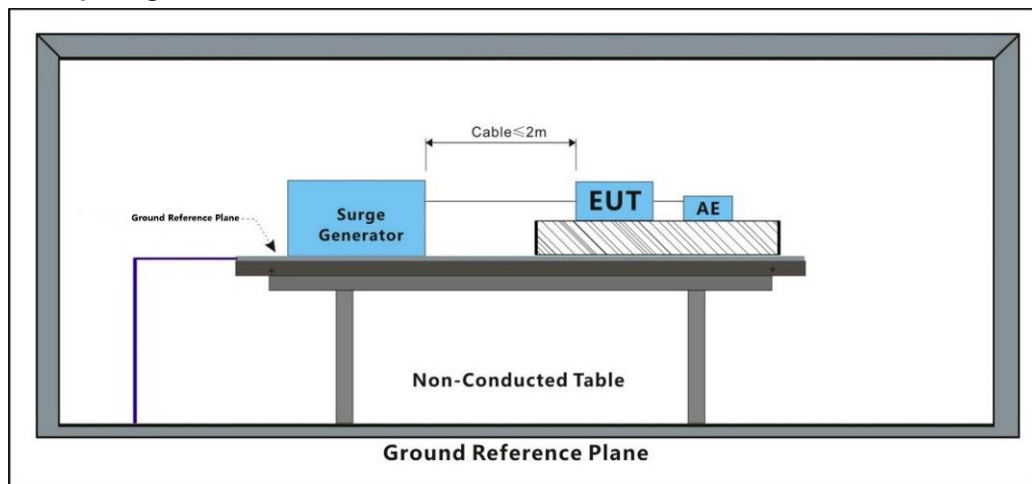
A: No degradation in the performance of the EUT was observed



7.4 Surge at AC Mains Power Port

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

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 48.0 % RH Atmospheric Pressure: 1020 mbar

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.

7.4.4 Test Condition and Results:

Performance Criterion: B
 Interval: 60s between each surge
 Test Level: ±1kV Live to Neutral; ±2kV Live, Neutral to Earth
 Polarity: Positive & Negative
 Generator source impedance: 2Ω
 CDN coupling impedance(Line-to-ground):10Ω
 Trigger Mode: Internal
 No. of surges: 5 positive at 90°, 5 negative at 270°.



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Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A
A: No degradation in the performance of the EUT was observed				



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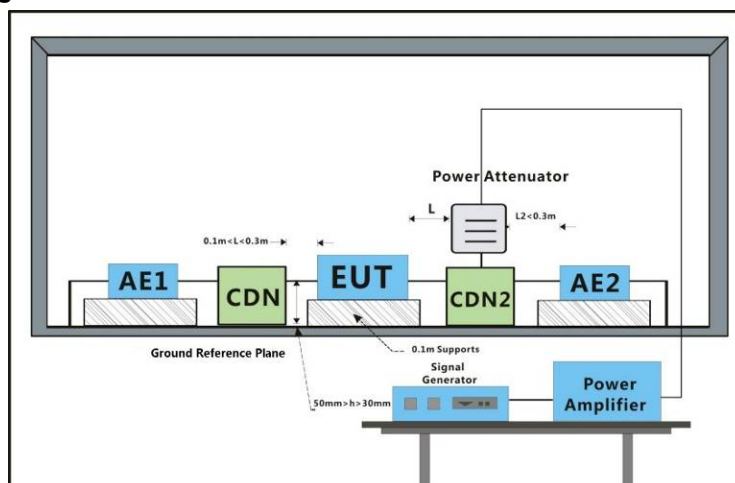
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7.5 Conducted Immunity at AC Mains Power Port (150kHz-230MHz)

Test Requirement: EN IEC 55014-2: 2021
 Test Method: EN IEC 61000-4-6: 2023
 Test Engineer: Sean Xiao

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 48.0 % RH Atmospheric Pressure: 1020 mbar

7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.

7.5.4 Test Condition and Results:

Performance Criterion: A
 Step Size: 1%
 Frequency Range: 0.15MHz to 230MHz
 Modulation: 80%, 1kHz Amplitude Modulation

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

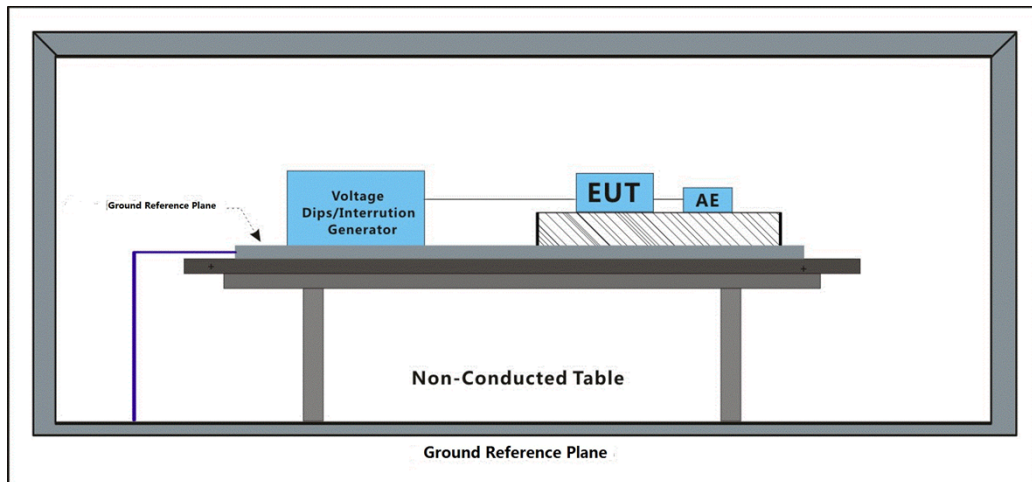
A: No degradation in the performance of the EUT was observed



7.6 Voltage Dips and Interruptions

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

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 48.0 % RH Atmospheric Pressure: 1020 mbar

7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge and on mode, keep EUT working normally and being charged with adapter.

7.6.4 Test Condition and Results:

Performance Criterion:

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

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

No. of Dips / Interruptions: 3 per Level

Time between dropout: 10s



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Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycle for 50Hz	3	A
0	180°	0.5 Cycle for 50Hz	3	A
40	0°	10 Cycles for 50Hz	3	A
40	180°	10 Cycles for 50Hz	3	A
70	0°	25 Cycles for 50Hz	3	A
70	180°	25 Cycles for 50Hz	3	A
0	0°	0.5 Cycle for 60Hz	3	A
0	180°	0.5 Cycle for 60Hz	3	A
40	0°	12 Cycles for 60Hz	3	A
40	180°	12 Cycles for 60Hz	3	A
70	0°	30 Cycles for 60Hz	3	A
70	180°	30 Cycles for 60Hz	3	A
A: No degradation in the performance of the EUT was observed				



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8 Test Setup Photo

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



Radiated Emissions (30MHz-1GHz)



Voltage Fluctuations and Flicker



Electrostatic Discharge





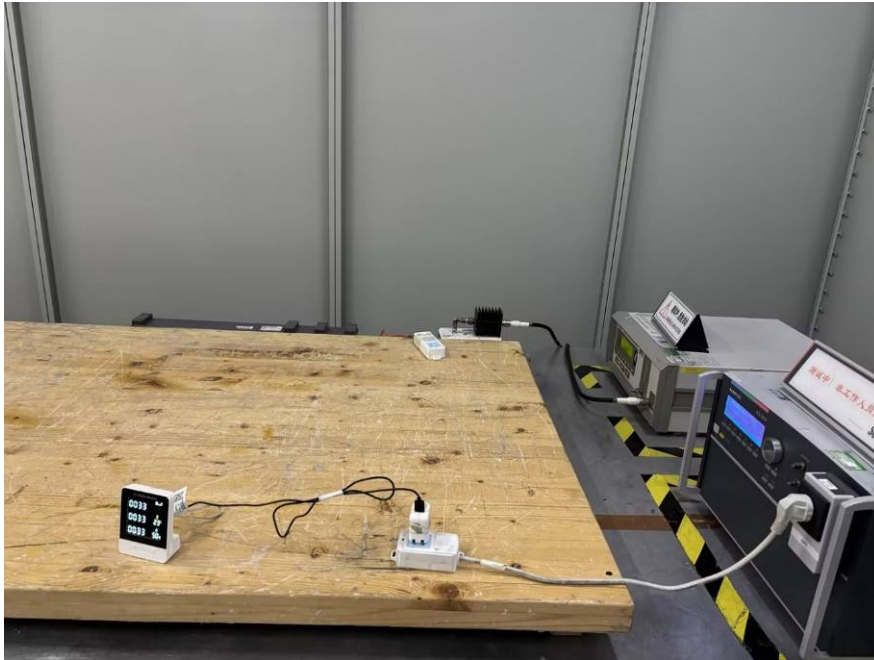
Radiated Immunity (80MHz-1GHz)



Electrical Fast Transients Burst at AC Mains Power Port



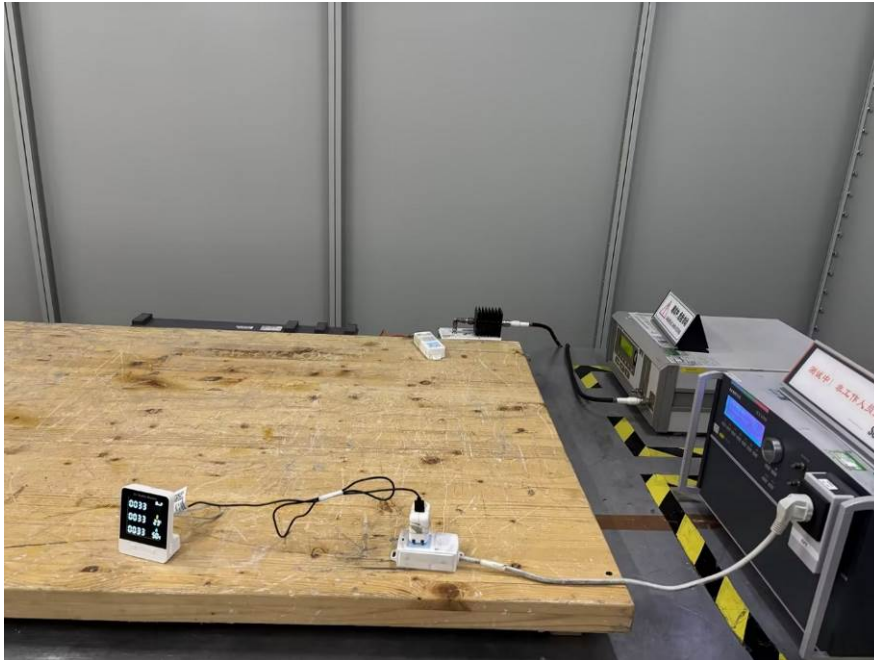
Surge at AC Mains Power Port



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



Voltage Dips and Interruptions



9 EUT Constructional Details (EUT Photos)

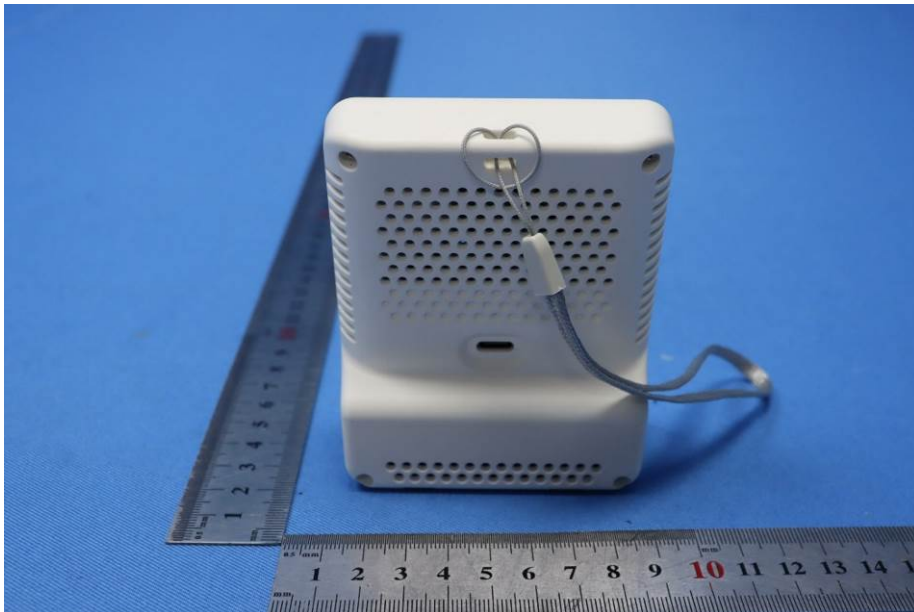


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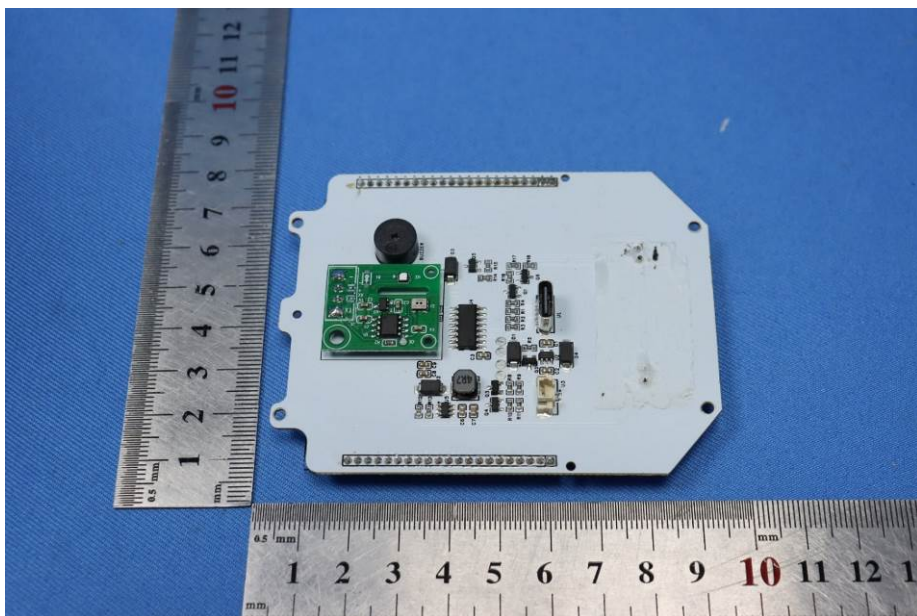
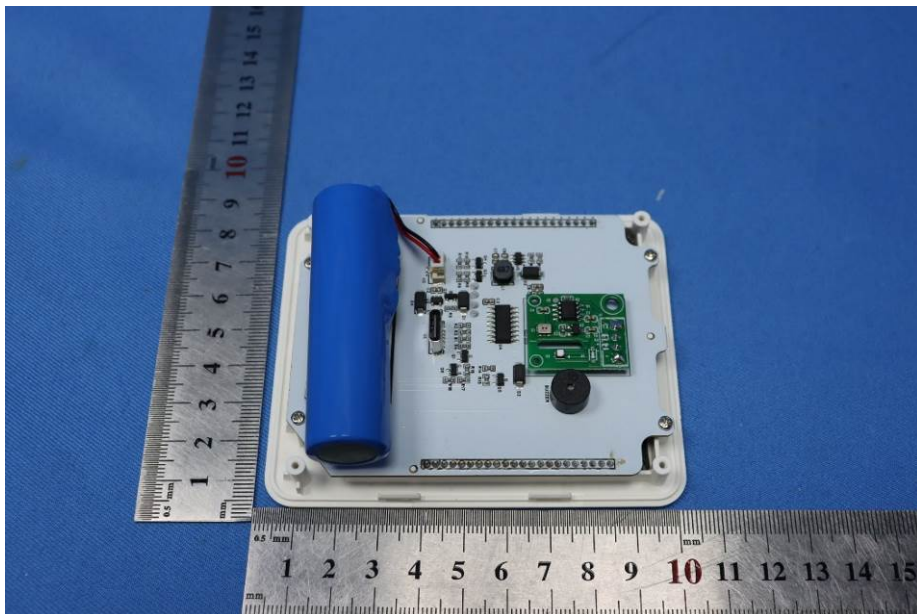


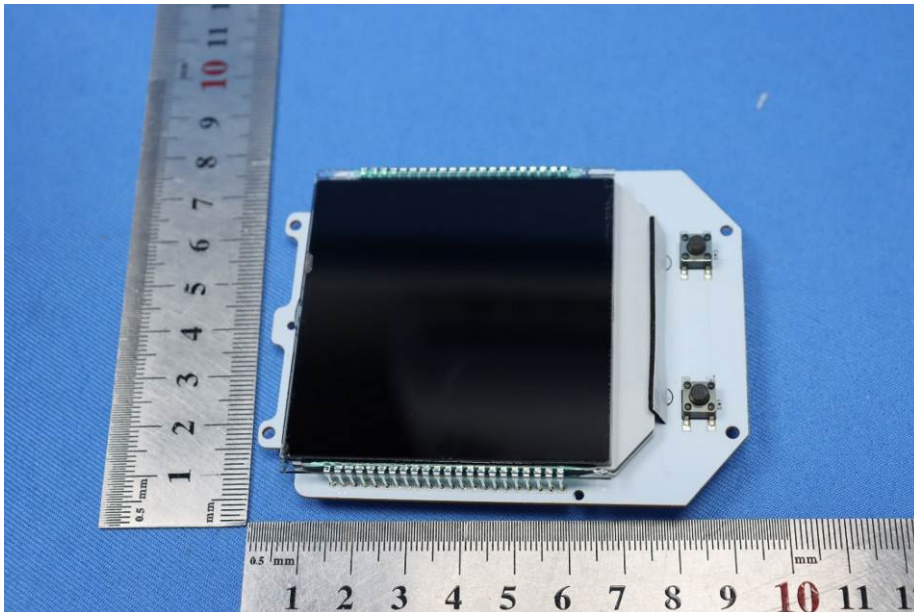
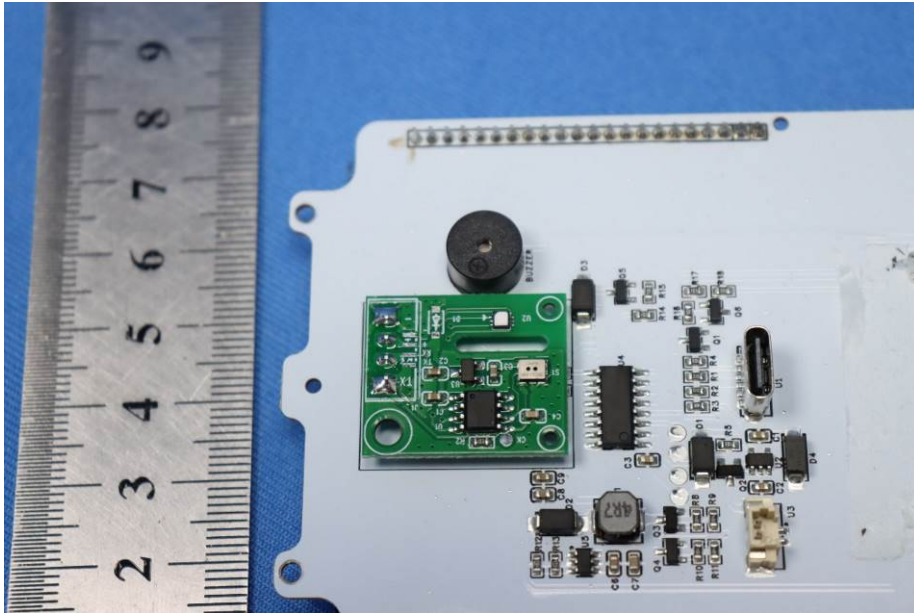
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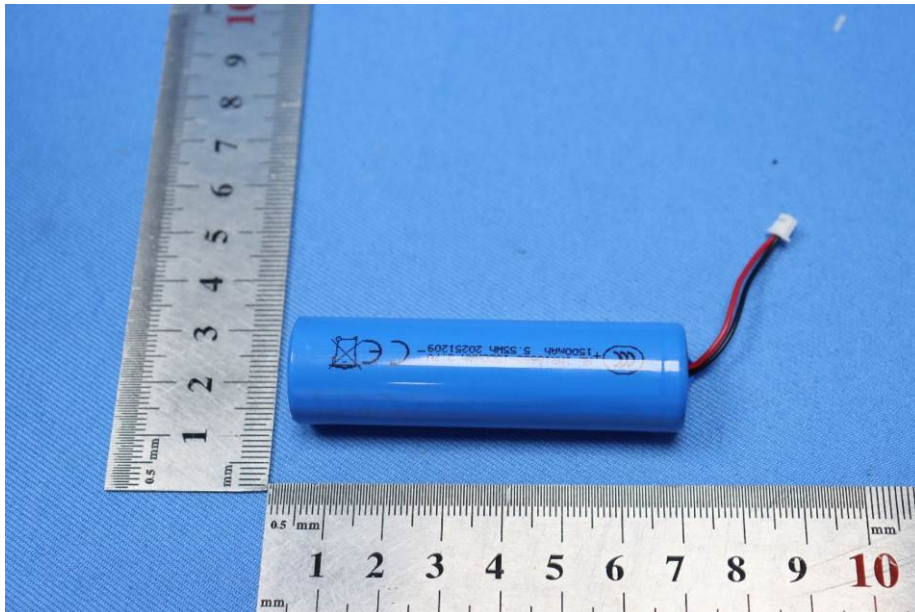
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