

TEST REPORT

Report Number.....: CTG2512090331B-SR93AT

Tested by (name + signature).....: Iverson Chen

Iverson Chen

Reviewed by (name + signature)..: Alan Li

Alan Li

Approved by (name + signature)..: Aaron Zhai

Aaron Zhai

Testing Laboratory

Name.....: Shenzhen CTG Testing Co., LTD.

Address.....: 3/F, Yongxing Plastic Plant, No.11. Waihuan Road, Shiyan Street, Bao'an District Shenzhen, Guangdong, China

Testing location.....: Shenzhen CTG Testing Co., LTD.

Date of issue 2025-12-09

Applicant

name.....: Guangzhou Boli Electronic Technology Co., Ltd.

Address.....: No. 36, Xiapaifang Street, Guangzhou Baiyun Longguiyuan, Building 5, 3rd Floor

Test specification:

Standard.....: EN IEC 55014-1:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021
EN IEC 55014-2:2021

Test procedure.....: Type Test

Non-standard test method.....: N/A

Test item

Description.....: Postpartum repair instrument

Model and/or type reference.....: AL-08

Additional model.....: AL-09, AL-10, AL-11, AL-12, AL-13, AL-14, AL-15, AL-16

Trademark: /

Manufacturer: Guangzhou Boli Electronic Technology Co., Ltd.

Address: No. 36, Xiapaifang Street, Guangzhou Baiyun Longguiyuan, Building 5, 3rd Floor



Attachments (including a total number of pages in each attachment):

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were tested and found to comply with the requirements of: European group difference and national differences

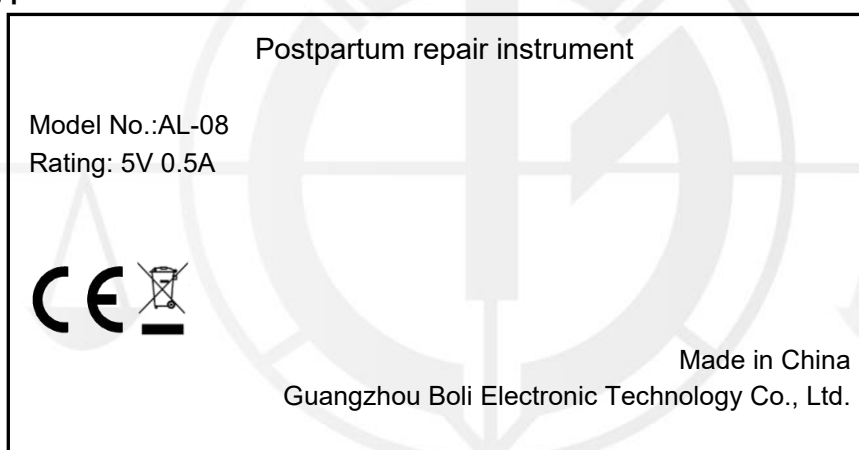
Testing location:

Shenzhen CTG Testing Co., LTD.
3F, Yongxing Plastic Plant, No. 11 Waihuan Road, Shiyan street, Bao'an District, Shenzhen, China

Summary of compliance with National Differences:

☒ The product fulfils the requirements of
EN IEC 55014-1:2021/C1:2021
EN IEC 61000-3-2:2019/A1:2021/C1:2021
EN 61000-3-3:2013/A2:2021
EN IEC 55014-2:2021

Copy of marking plate



Note:

As declared by the applicant the authorized EEA representative or importer was not decided at the time of application, but will be marked on the products before placing them on the market.

Note: According to when placing the products on the market the authorized representative / importer within the European Economic Area (EEA) must be marked on the product if the manufacturer is not located within the EEA. Marking on the packaging is only acceptable if it is not possible to place such markings on the product.



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1 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	EN IEC 55015:2019/A11:2020	EN IEC 55015:2019/A11:2020	--	Pass
Radiated Emissions	EN IEC 55015:2019/A11:2020	EN IEC 55015:2019/A11:2020	Class B	Pass
Discontinuous Interference	EN IEC 55015:2019/A11:2020	EN IEC 55015:2019/A11:2020	CISPR 15-1	Pass
Harmonic Current Emission	EN IEC 61000-3-2:2019/A1:2021	EN IEC 61000-3-2:2019/A1:2021	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013/A1:2019/A2:2021	EN 61000-3-3:2013/A1:2019/A2:2021	Clause 5 of EN 61000-3-3	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN61547:2009	EN 61000-4-2:2009	2,4kV Contact Discharge, 2,4,8kV Air Discharge	Pass
Continuos RF Eletromagnetic field Disturbance	EN IEC 61000-6-1:2019	EN 61000-4-3:2006 +A1:2007+A2:2010	80%,1kHz, AM Mod 3V/m,0.08~1GHz 3V/m,1.4~2.0GHz 1V/m,2.0~2.7GHz	Pass
Electrical Fast Transients Burst at AC Mains Power Port	EN IEC 61000-6-1:2019	EN 61000-4-4:2012	1kV, 5/50ns Tr/Td, 5kHz Repetition Frequency	Pass
Surge at AC Mains Power Port	EN IEC 61000-6-1:2019	EN 61000-4-5:2014 +A1:2017	1.2/50μs Tr/Td, 1kV Line to Line, 2kV Line to Ground	Pass
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	EN IEC 61000-6-1:2019	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions	EN IEC 61000-6-1:2019	EN 61000-4-11:2004 +A1:2017	For 50Hz: 0 % UT for 0.5cycle, 0 % UT for 1.0cycles, 70 % UT for 25cycles 0 % UT for 250cycles,	Pass

Note: (1)= Continuous working product. (2)=Refer to section 5..4.

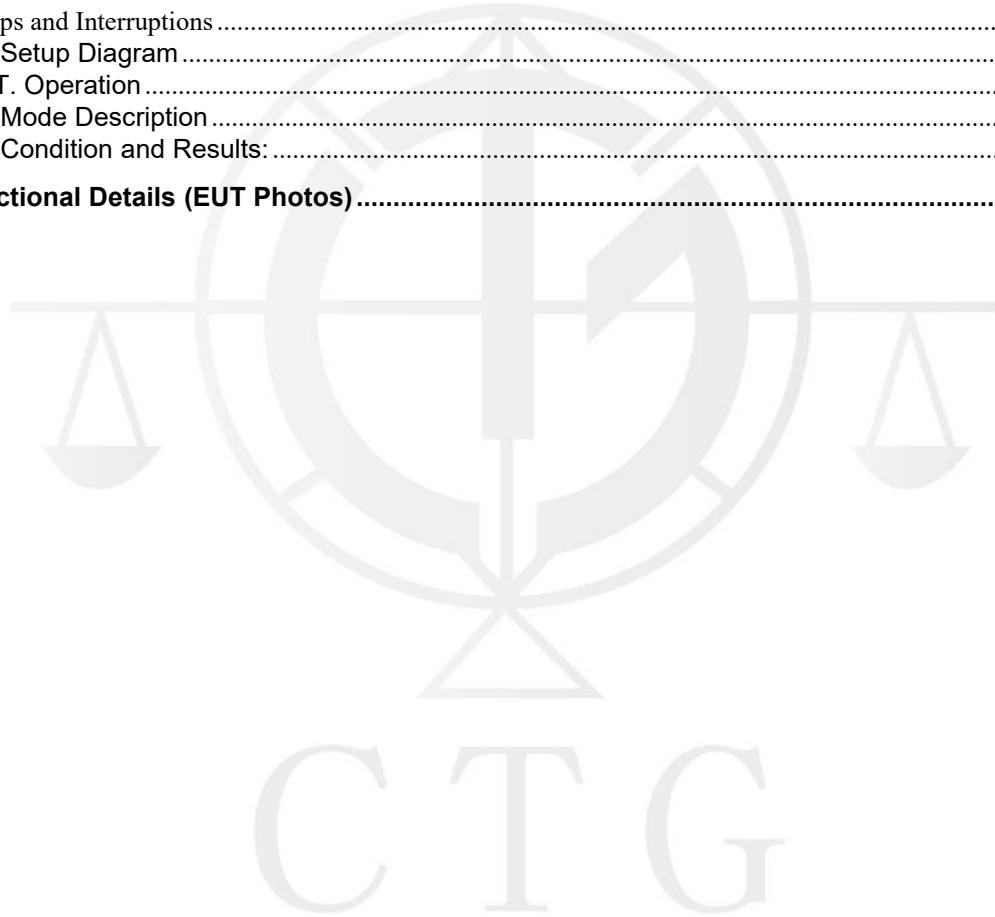


2 Contents

	Page
1 Cover Page.....	1
1 Test Summary	3
2 Contents	4
3 General Information	6
3.1 Details of E.U.T.	6
3.2 Description of Support Units	6
3.3 Measurement Uncertainty	6
3.4 Test Location	6
3.5 Test Facility	6
3.6 Deviation from Standards	6
3.7 Abnormalities from Standard Conditions	6
3.8 EMS Monitor	6
4 Equipment List	7
5 Emission Test Results	8
5.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	8
5.1.1 E.U.T. Operation	8
5.1.2 Test Mode Description	8
5.1.3 Test Setup Diagram	8
5.1.4 Measurement Procedure and Data	8
5.2 Disturbance POWER test	11
5.2.1 E.U.T. Operation	11
5.2.2 Test Mode Description	11
5.2.3 Test Setup Diagram	11
5.2.4 Measurement Procedure and Data	11
5.3 Radiated Emissions	12
5.3.1 E.U.T. Operation	12
5.3.2 Test Mode Description	12
5.3.3 Test Setup Diagram	12
5.3.4 Measurement Procedure and Data	12
5.4 Voltage Fluctuations and Flicker	14
5.4.1 E.U.T. Operation	14
5.4.2 Test Mode Description	14
5.4.3 Test Setup Diagram	15
5.4.4 Measurement Procedure and Data	16
5.5 Harmonic Current Emission	17
5.5.1 E.U.T. Operation	17
5.5.2 Test Setup Diagram	17
5.5.3 Measurement Data	18
6 Immunity Test Results	19
6.1 Electrostatic Discharge	20
6.1.1 Test Setup Diagram	20
6.1.2 E.U.T. Operation	20
6.1.3 Test Mode Description	20
6.1.4 Test Condition and Results:	20
6.2 Continuous RF Electromagnetic field Disturbance	22
2.1.1 Test Setup Diagram	22
6.2.1 E.U.T. Operation	22
6.2.2 Test Mode Description	22
6.2.3 Test Condition and Results:	22



6.3 Electrical Fast Transients Burst at AC Mains Power Port	23
6.3.1 Test Setup Diagram	23
6.3.2 E.U.T. Operation	23
6.3.3 Test Mode Description	23
6.3.4 Test Condition and Results:	23
6.4 Surge at AC Mains Power Port	24
6.4.1 Test Setup Diagram	24
6.4.2 E.U.T. Operation	24
6.4.3 Test Mode Description	24
6.4.4 Test Condition and Results:	24
6.5 Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	25
2.1.2 Test Setup Diagram	25
6.5.1 E.U.T. Operation	25
6.5.2 Test Mode Description	25
6.5.3 Test Condition and Results:	25
6.6 Voltage Dips and Interruptions	26
6.6.1 Test Setup Diagram	26
6.6.2 E.U.T. Operation	26
6.6.3 Test Mode Description	26
6.6.4 Test Condition and Results:	26
7 EUT Construcational Details (EUT Photos)	27



General Information

3.1 Details of E.U.T.

Power supply: AC
Test Voltage: AC220-240V
Cable(s): DC:2 wires 1.0m unshielded out put for the adapter.

3.2 Description of Support Units

3.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	3.12dB
Radiated Emissions(30MHz-1000MHz)	3.66dB
Remark: The U_{lab} (lab Uncertainty) is less than U_{cisp} (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.	

3.4 Test Location

Shenzhen CTG testing co.,ltd
3/F, Yongxing Plastic Plant, No.11. Waihuan Road, Shiyan Street, Bao'an District Shenzhen, Guangdong, China

3.5 Test Facility

The test facility is recognized, certified, or accredited.

3.6 Deviation from Standards

This report is based on the requirements of customers to carry the equipment in the manufacturer for on-site testing.

3.7 Abnormalities from Standard Conditions

The test equipment in the calibration period, but the test site has not been calibrated.

3.8 EMS Monitor

Visual: LCD Display
Audio: Buzzing
Other: N/A



4 Equipment List

Test Equipment	Model	Manufacturer	Serial No.	Cal Date
EMC Laboratory				
Conduction& Radiated Test equipment				
EMI Test Receiver	ESPI	R&S	102086	2025.10.14
LISN	ENV216	R&S	101242	2025.10.14
LISN	3810/2NM	EMCO	000-23625	2025.10.14
Bi-log Antenna	CBL6111D	TESEQ	34678	2025.10.11
Pre-Amplifier (0.1M-3GHz)	EM330	EM	060665	2025.10.11
RE Cable (9K-1G)	N/A	R01	N/A	2025.10.11
EMS Test equipment				
ESD				
ESD TEST GENERATOR	KES4021	KZKUSUI	LB003568	2025.06.27
EFT				
EFT/B Generator	HEFT 51	HTEC	143801	2025.10.14
Surge				
Surge Generator	HCWG71	HTEC	143804	2025.10.14
Conducted RF immunity				
CS	CDG-6000-25	SCHLODER	126A1280/2014	2025.10.14
Attenuator	ATT-6DB-100	Nemtest	A100W224	2025.10.17
CDN	CDN-M2+3	Frankonia	A2210275/2014	2025.10.14
Coupling clamp	----	KEMZ801	-----	2025.10.14
Voltage dips, short interruptions and voltage variations immunity				
VOLTAGE DIPS & INTERRUPTIONS Generator	HPFS 161P	HTEC	143803	2025.10.17
Harmonics & Flicker				
Harmonic Voltage & Flicker	PACS-1	California Instruments	72812	2025.10.14
AC Power Source	5000ix	California Instruments	59862	2025.10.18

Radiated Immunity				
No.	Test Item	Equipment	Model No.	Cal due date
1	Power Meter	Agilent	E4419B	2025.10.09
2	Power Sensor	Hp	E9300A	2025.10.11
3	Power Sensor	Hp	E9300A	2025.10.11
4	Signal Generator	Agilent	N5181A	2025.10.11
5	Power Amplifier	MICOTOP	MPA-80-1000 -250	2025.10.11
6	Power Amplifier	MICOTOP	MPA-1000- 6000-100	2025.10.09
7	RS Test Antenna (0.08-1GHz)	SCHWARZBECK	VULP 9118E	N/A
8	RS Test Antenna (1-10GHz)	SCHWARZBECK	STLP 9149	N/A
9	Temperature & Humidity	Mieo	HH660	2025.10.12



5 Emission Test Results

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

Test Requirement:	EN IEC 55014-1:2021
Test Method:	EN IEC 55014-1:2021

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

5.1.1 E.U.T. Operation

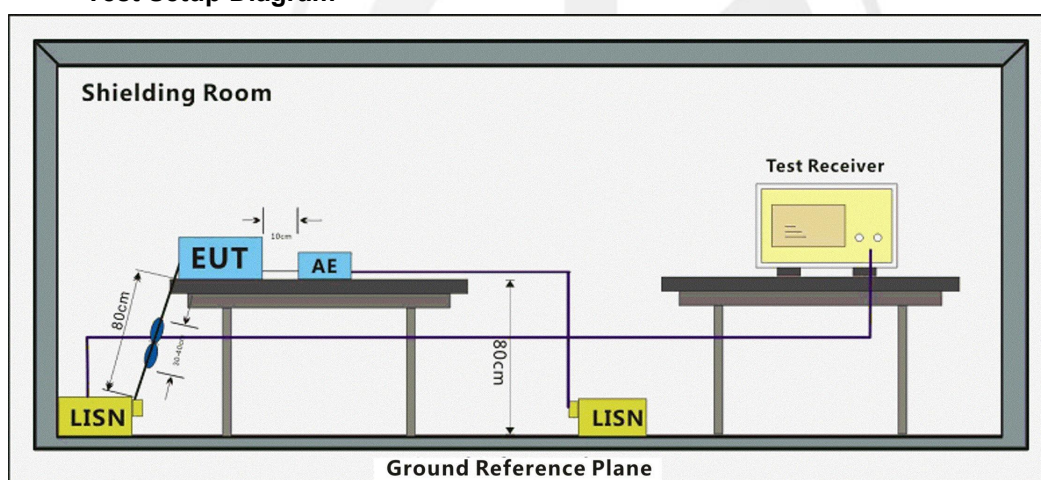
Operating Environment:

Temperature: 22.1 °C Humidity: 52 % RH Atmospheric Pressure: 1010 mbar

5.1.2 Test Mode Description

Test Mode: Normal working mode(Max Loading).

5.1.3 Test Setup Diagram



5.1.4 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.

Measured Level = Read level + Cable Loss + LISN Factor

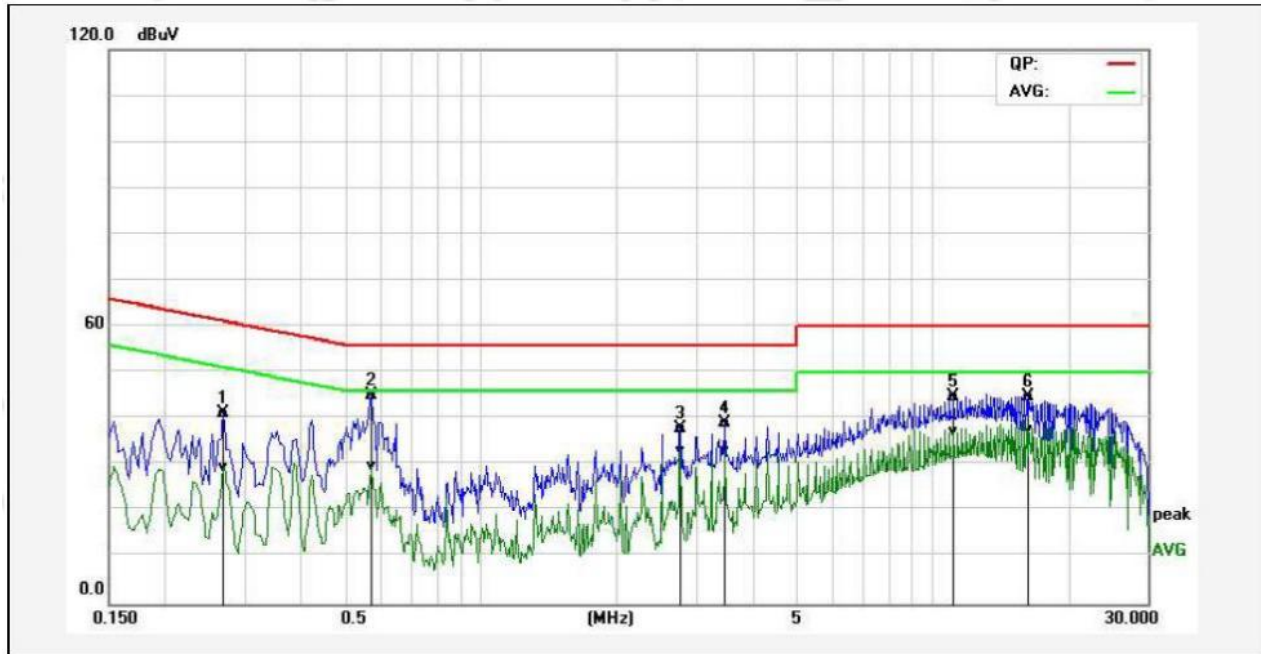


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Live line

EUT:	Postpartum repair instrument	Model No.:	AL-08
Temperature:	24.2 °C	Relative Humidity:	55%
Test Power:	220~240V	Test Result:	Pass
Test Mode:	ON		



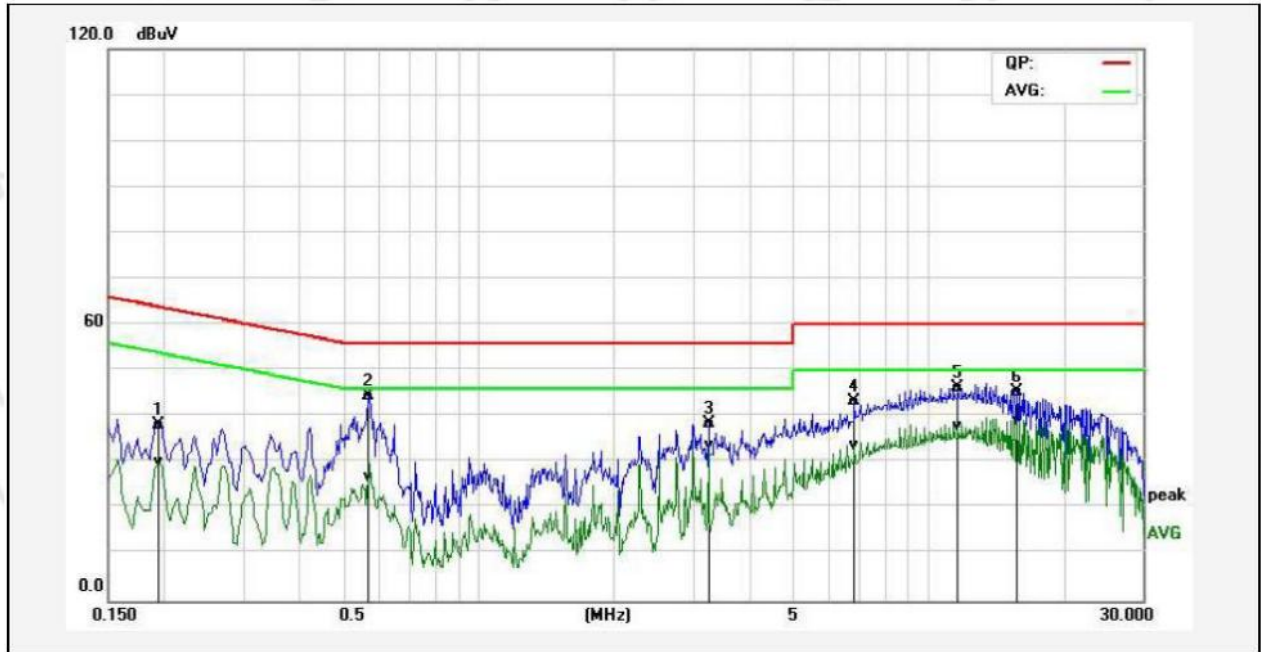
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.2700	30.41	18.80	10.77	41.18	29.57	61.12	51.12	-19.94	-21.55	Pass
2*	0.5740	34.45	19.10	10.82	45.27	29.92	56.00	46.00	-10.73	-16.08	Pass
3P	2.7660	26.65	22.04	11.26	37.91	33.30	56.00	46.00	-18.09	-12.70	Pass
4P	3.4860	27.81	21.82	11.46	39.27	33.28	56.00	46.00	-16.73	-12.72	Pass
5P	11.1740	30.93	23.23	14.06	44.99	37.29	60.00	50.00	-15.01	-12.71	Pass
6P	16.2260	28.83	21.48	16.04	44.87	37.52	60.00	50.00	-15.13	-12.48	Pass

Note: Measurement Level = Reading Level + Correct Factor



Neutral Line

EUT:	Postpartum repair instrument	Model No.:	AL-08
Temperature:	24. 2 °C	Relative Humidity:	55%
Test Power:	220~240V	Test Result:	Pass
Test Mode:	ON		



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
1P	0.1940	27.52	19.24	10.83	38.35	30.07	63.86	53.86	-25.51	-23.79	Pass
2P	0.5700	33.70	15.93	10.82	44.52	26.75	56.00	46.00	-11.48	-19.25	Pass
3P	3.2460	27.28	22.43	11.40	38.68	33.83	56.00	46.00	-17.32	-12.17	Pass
4P	6.8540	31.02	21.52	12.31	43.33	33.83	60.00	50.00	-16.67	-16.17	Pass
5P	11.6620	32.14	23.60	14.35	46.49	37.95	60.00	50.00	-13.51	-12.05	Pass

Note: Measurement Level = Reading Level + Correct Factor



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5.2 Disturbance POWER test

Test Requirement: EN IEC 55014-1:2021

Test Method: EN IEC 55014-1:2021

Limit:

30 ~ 300 45 Increasing Linearly with Frequency to 55 (Q.P.)
 35 Increasing Linearly with Frequency to 45 (A.V.)

5.2.1 E.U.T. Operation

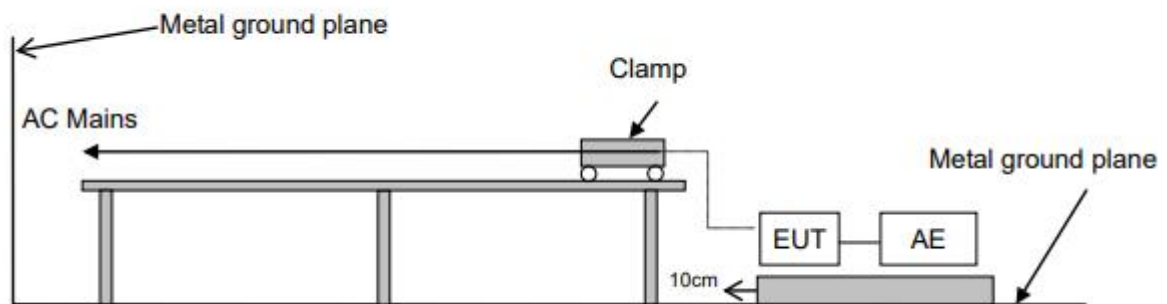
Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

5.2.2 Test Mode Description

Test Mode: Normal working mode(Max Loading).

5.2.3 Test Setup Diagram



5.2.4 Measurement Procedure and Data

The EUT is placed on the ground and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the test receiver is set at 120kHz.

All the test results are listed in Section 6.6.

The frequency spectrum from 30 MHz to 300 MHz is investigated.

As the peak value is too low against the limit, so the quasi-peak value and average value have omitted.

All the scanning waveforms are attached in **Appendix II**



5.3 Radiated Emissions

Test Requirement: EN IEC 55014-1:2021

Test Method: EN IEC 55014-1:2021

Limit:

30MHz- 230MHz: 40dBuV/m quasi-peak

230MHz- 1000MHz: 47dBuV/m quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz

5.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C

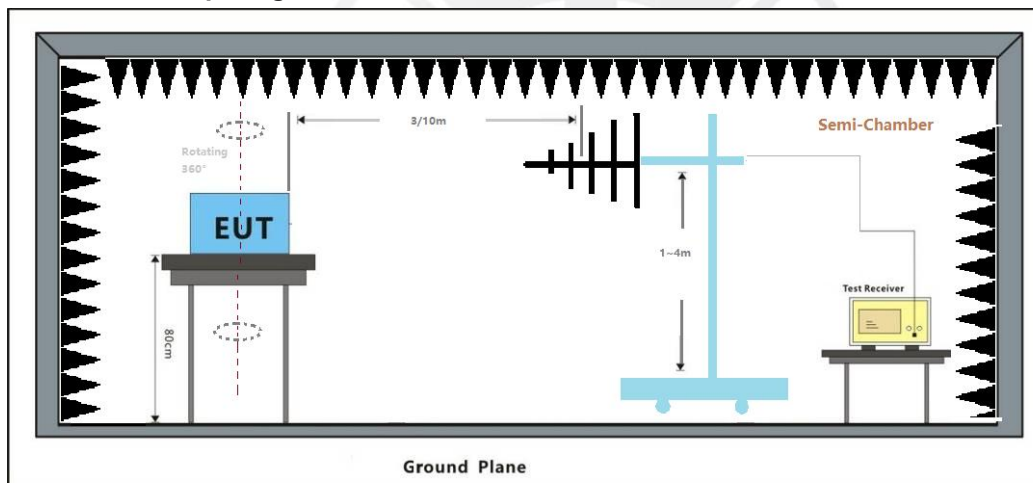
Humidity: 52 % RH

Atmospheric Pressure: 1010 mbar

5.3.2 Test Mode Description

Test Mode: Normal working mode(Max Loading).

5.3.3 Test Setup Diagram



5.3.4 Measurement Procedure and Data

Frequency Range: 30MHz to 1000MHz

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

Measured Level = Read level + Cable Loss + Ant Factor- Pre-amp

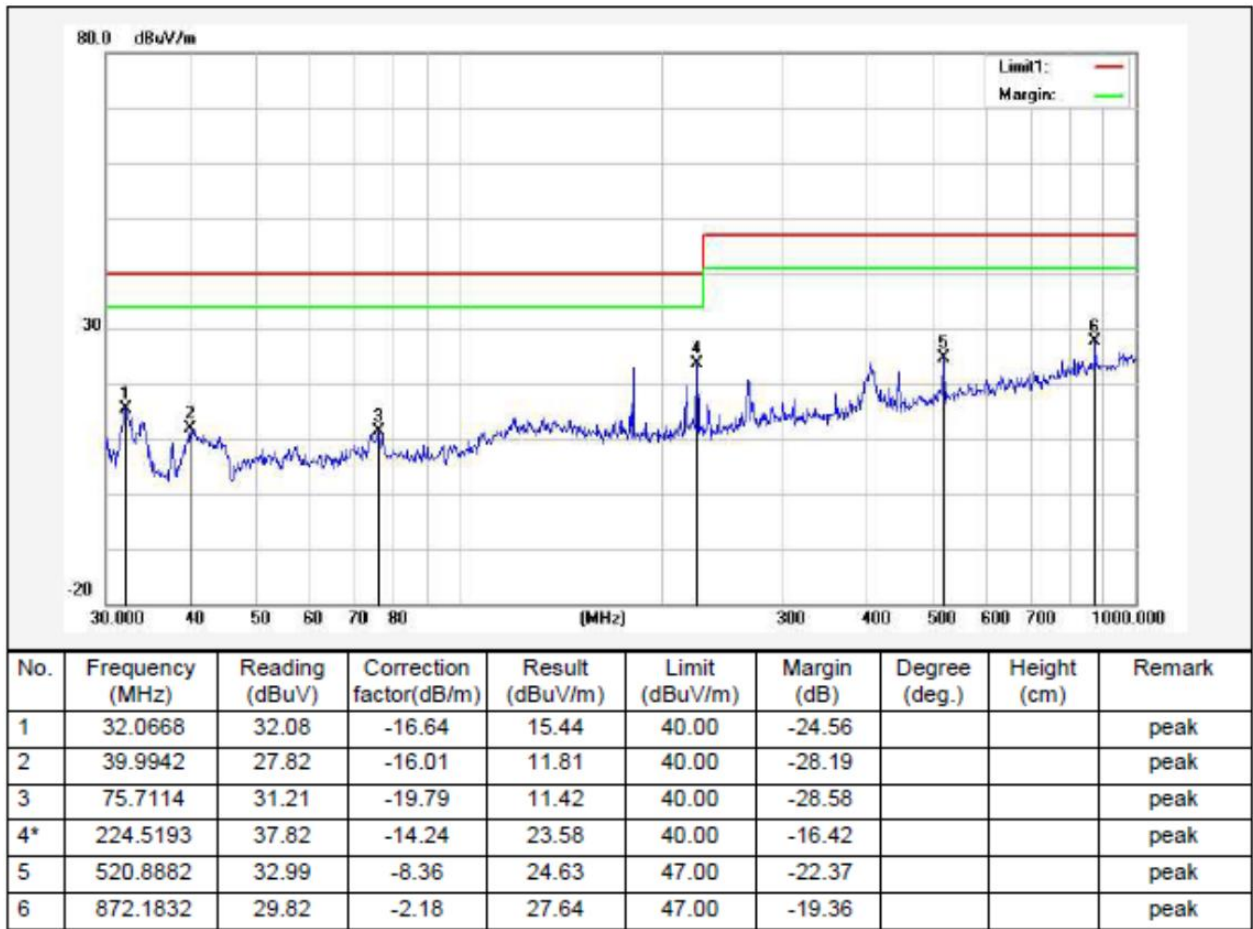


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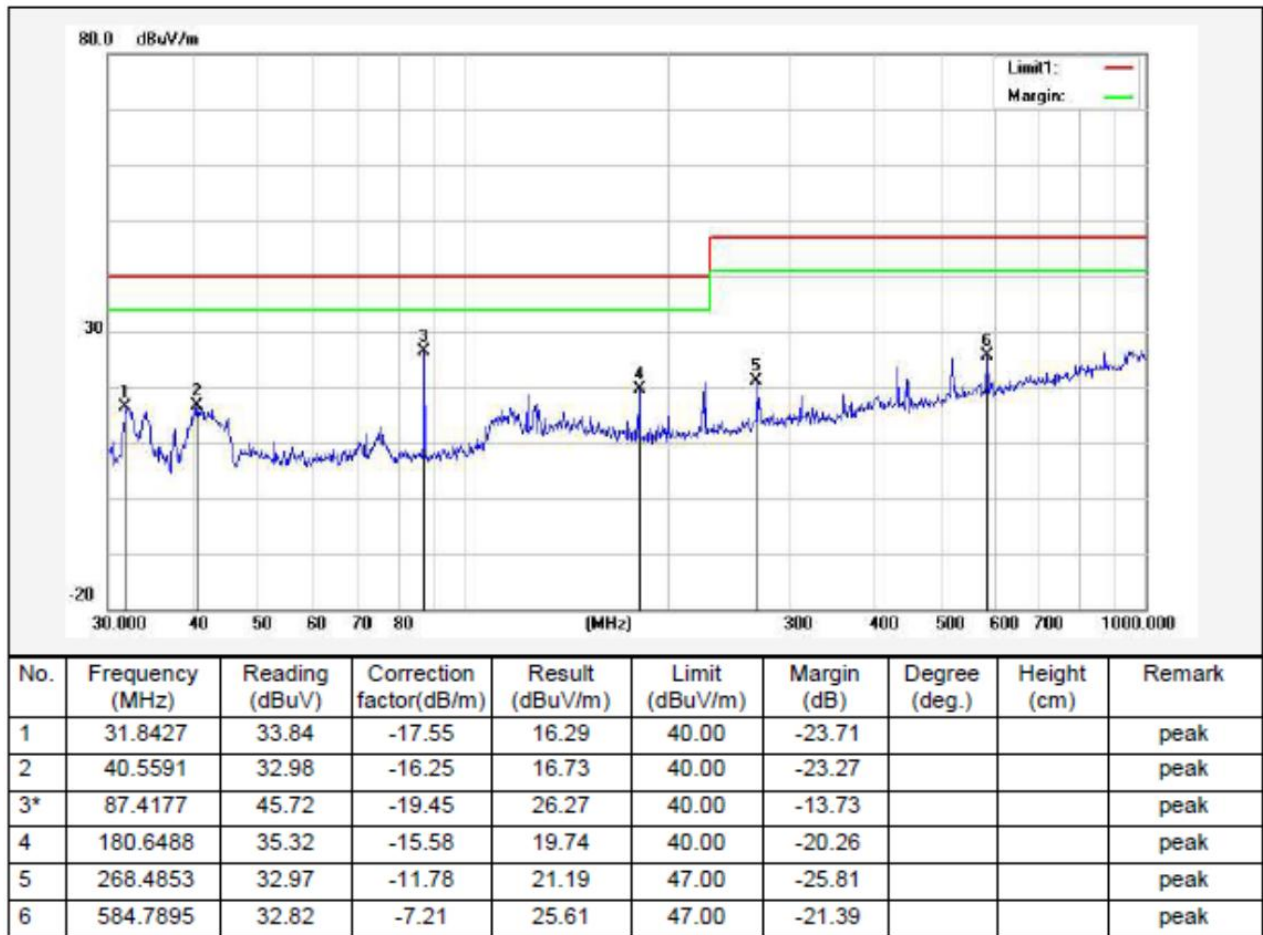
Website:www.ctg-cert.com



Note: Measurement Level = Reading Level + Correct Factor



Polarization: Vertical



Note: Measurement Level = Reading Level + Correct Factor

5.4 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

5.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

Humidity: 65.6 % RH

Atmospheric Pressure: 1010 mbar

5.4.2 Test Mode Description

Test Mode: Normal working mode(Max Loading).



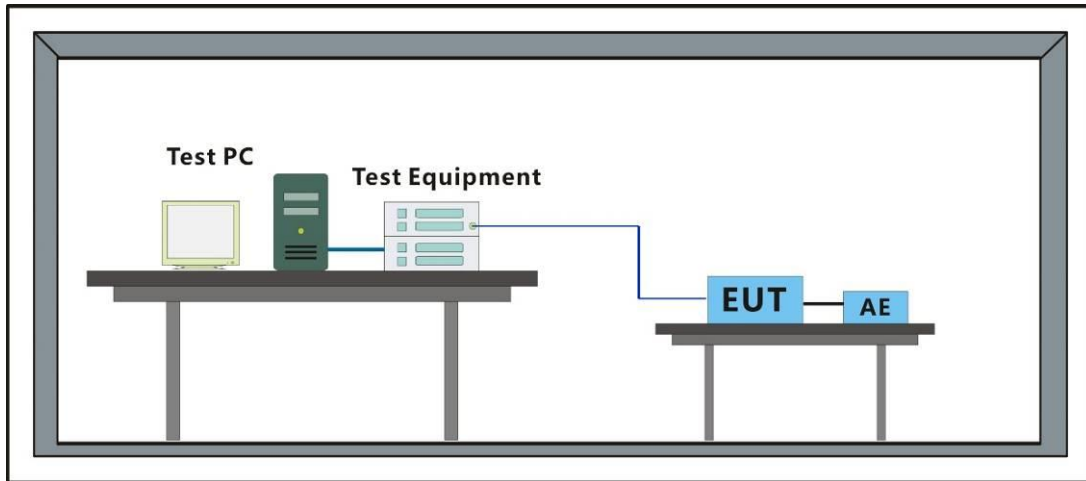
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5.4.3 Test Setup Diagram



5.4.4 Measurement Procedure and Data

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits)
Test duration (min): 10

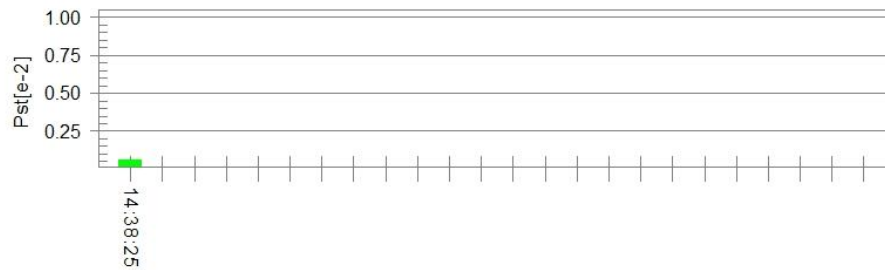
Test Margin: 100

Test Result: Pass

Status: Test Completed

Pst, and limit line

European Limits



Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.06

T-max (mS): 0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.064

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass



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5.5 Harmonic Current Emission

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

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

Frequency Range: 100Hz to 2kHz

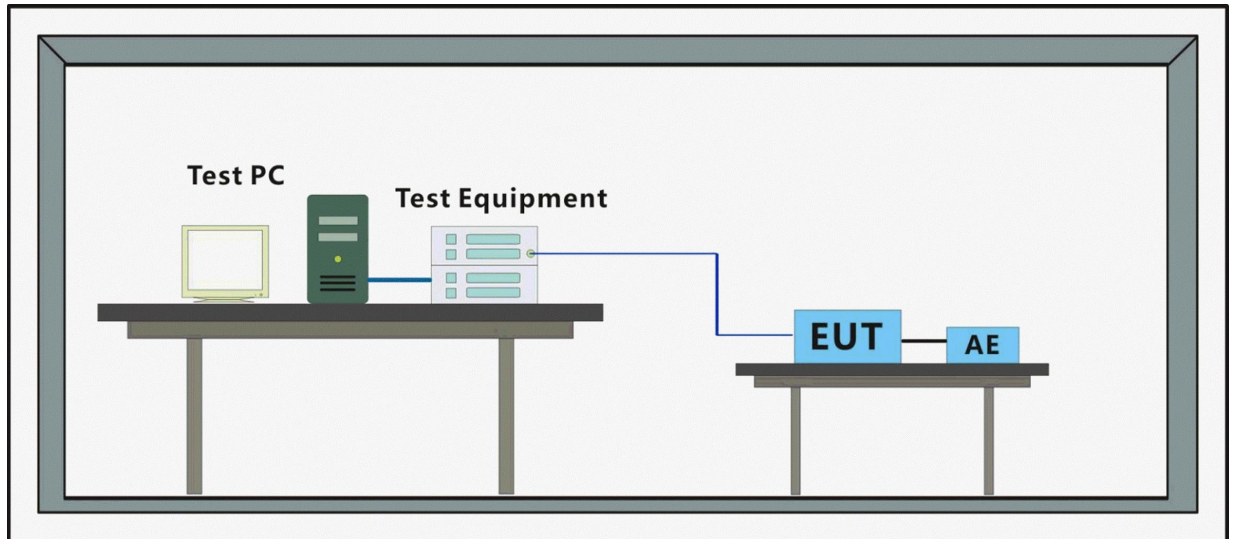
5.5.1 E.U.T. Operation

Operating Environment:

Temperature: / °C Humidity: / % RH Atmospheric Pressure: / mbar

Test Mode: Normal working mode(Max Loading).

5.5.2 Test Setup Diagram



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5.5.3 Measurement Data

Ha	Entire measurement (0.320 s = 1 time window(s))						Worst 2.5 min		Average		PASS	FAIL
	Maximum	Window	EN61000-3-2 Class D 50W	Margin in MaxWin	100 to 150%	Ex-ceeded	100 to 150%	Ex-ceeded	Value	Ex-ceeded		
DC	0.0012 A	1	--	--	0	0	n.e.	n.e.	-0.0012 A	0	X	
1	0.2989 A	1	--	--	0	0	n.e.	n.e.	0.2989 A	0	X	
2	0.0002 A	1	--	--	0	0	n.e.	n.e.	0.0002 A	0	X	
3	0.0418 A	1	0.2239 A	81.3 %	0	0	n.e.	n.e.	0.0418 A	0	X	
4	0.0001 A	1	--	--	0	0	n.e.	n.e.	0.0001 A	0	X	
5	0.0263 A	1	0.1251 A	78.9 %	0	0	n.e.	n.e.	0.0263 A	0	X	
6	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
7	0.0141 A	1	0.0658 A	78.6 %	0	0	n.e.	n.e.	0.0141 A	0	X	
8	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
9	0.0051 A	1	0.0329 A	84.4 %	0	0	n.e.	n.e.	0.0051 A	0	X	
10	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
11	0.0007 A	1	0.0230 A	97.1 %	0	0	n.e.	n.e.	0.0007 A	0	X	
12	0.0001 A	1	--	--	0	0	n.e.	n.e.	0.0001 A	0	X	
13	0.0029 A	1	0.0195 A	85.1 %	0	0	n.e.	n.e.	0.0029 A	0	X	
14	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
15	0.0033 A	1	0.0169 A	80.3 %	0	0	n.e.	n.e.	0.0033 A	0	X	
16	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
17	0.0039 A	1	0.0149 A	73.9 %	0	0	n.e.	n.e.	0.0039 A	0	X	
18	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
19	0.0018 A	1	0.0133 A	86.9 %	0	0	n.e.	n.e.	0.0018 A	0	X	
20	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
21	0.0016 A	1	0.0121 A	86.7 %	0	0	n.e.	n.e.	0.0016 A	0	X	
22	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
23	0.0015 A	1	0.0110 A	86.4 %	0	0	n.e.	n.e.	0.0015 A	0	X	
24	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
25	0.0023 A	1	0.0101 A	77.5 %	0	0	n.e.	n.e.	0.0023 A	0	X	
26	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
27	0.0019 A	1	0.0094 A	80.0 %	0	0	n.e.	n.e.	0.0019 A	0	X	
28	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
29	0.0017 A	1	0.0087 A	80.2 %	0	0	n.e.	n.e.	0.0017 A	0	X	
30	0.0001 A	1	--	--	0	0	n.e.	n.e.	0.0001 A	0	X	
31	0.0009 A	1	0.0082 A	88.5 %	0	0	n.e.	n.e.	0.0009 A	0	X	
32	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
33	0.0015 A	1	0.0077 A	80.3 %	0	0	n.e.	n.e.	0.0015 A	0	X	
34	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	
35	0.0014 A	1	0.0072 A	80.3 %	0	0	n.e.	n.e.	0.0014 A	0	X	
36	0.0001 A	1	--	--	0	0	n.e.	n.e.	0.0001 A	0	X	
37	0.0013 A	1	0.0069 A	80.6 %	0	0	n.e.	n.e.	0.0013 A	0	X	
38	0.0001 A	1	--	--	0	0	n.e.	n.e.	0.0001 A	0	X	
39	0.0010 A	1	0.0065 A	84.3 %	0	0	n.e.	n.e.	0.0010 A	0	X	
40	0.0000 A	1	--	--	0	0	n.e.	n.e.	0.0000 A	0	X	

Note: The actual power is less than 75W.



6 Immunity Test Results

Performance Criteria Description

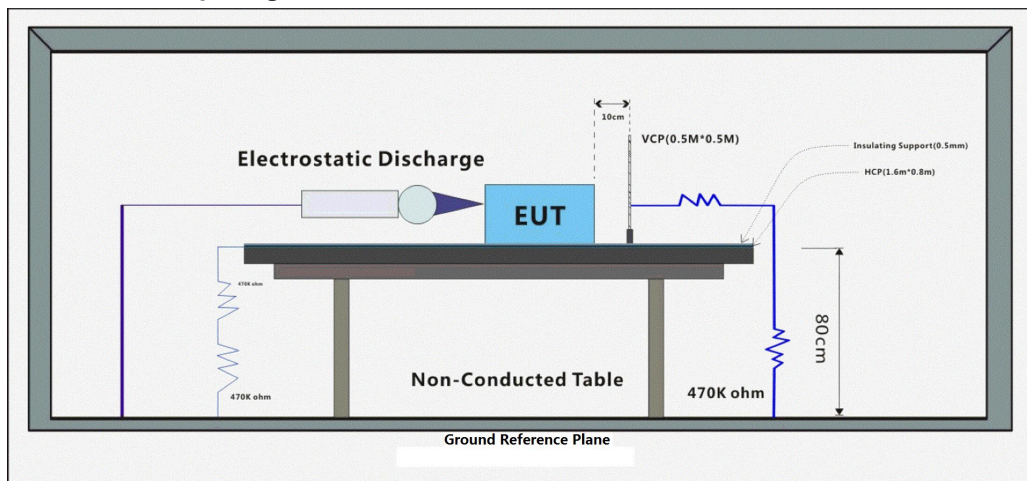
- Criterion A:** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance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



6.1 Electrostatic Discharge

Test Requirement:	EN IEC 55014-2:2021
Test Method:	EN 61000-4-2:2009

6.1.1 Test Setup Diagram



6.1.2 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 55.9 % RH Atmospheric Pressure: 1010 mbar

6.1.3 Test Mode Description

Test Mode: Normal working mode(Max Loading).

6.1.4 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

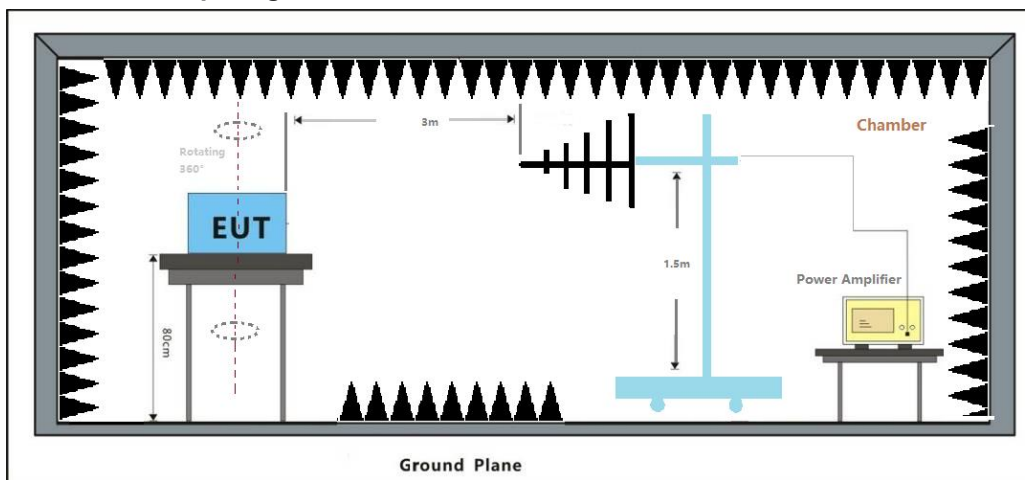
N/A:Not applicable



6.2 Continuous RF Electromagnetic field Disturbance

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

6.2.1 Test Setup Diagram



6.2.2 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 68.3 % RH Atmospheric Pressure: 1010 mbar

6.2.3 Test Mode Description

Test Mode: Normal working mode(Max Loading).

6.2.4 Test Condition and Results:

Performance Criterion: A

Step Size: 1%

Frequency Range: 80MHz to 2700MHz

Modulation: 80%, 1kHz Amplitude Modulation

80~2000MHz

Surface	Level (V/m)	Polarization	Dwell time	Result / Observations
AC power port	3	H&V	1s	A
AC power port	3	H&V	1s	A
AC power port	3	H&V	1s	A
AC power port	3	H&V	1s	A

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

2.0~2.7GHz

Surface	Level (V/m)	Polarization	Dwell time	Result / Observations
AC power port	1	H&V	1s	A
AC power port	1	H&V	1s	A
AC power port	1	H&V	1s	A
AC power port	1	H&V	1s	A

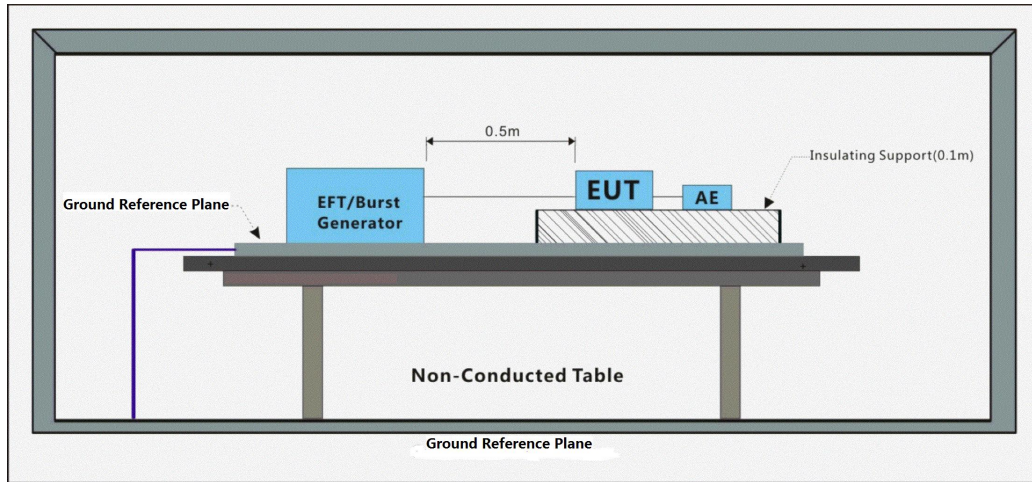
A: No degradation in the performance of the EUT was observed



6.3 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement:	EN IEC 55014-2:2021
Test Method:	EN 61000-4-4:2012

6.3.1 Test Setup Diagram



6.3.2 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C

Humidity: 67.5 % RH

Atmospheric Pressure: 1010 mbar

6.3.3 Test Mode Description

Test Mode: Normal working mode(Max Loading).

6.3.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

Test Level: 1.0kV

Polarity: Positive & Negative

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

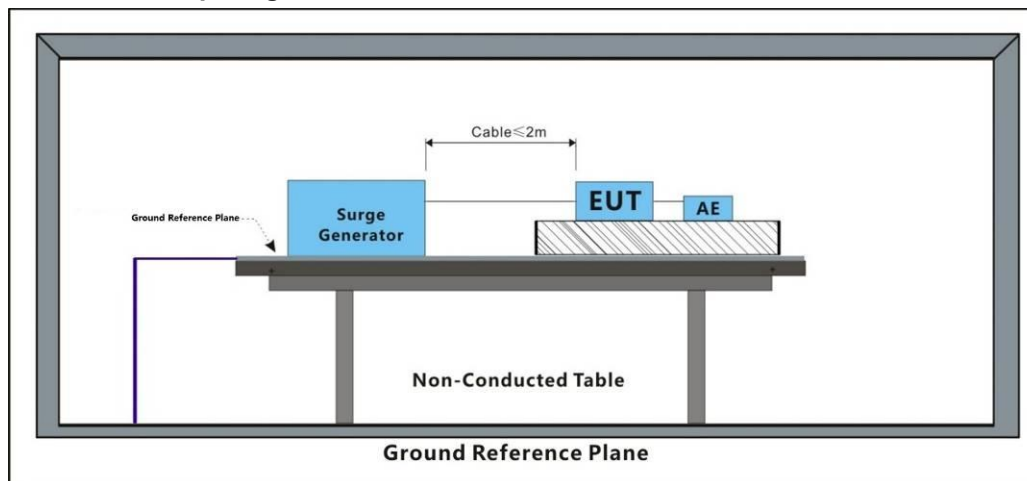
A: No degradation in the performance of the EUT was observed



6.4 Surge at AC Mains Power Port

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

6.4.1 Test Setup Diagram



6.4.2 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C

Humidity: 68.4 % RH

Atmospheric Pressure: 1010 mbar

6.4.3 Test Mode Description

Test Mode: Normal working mode(Max Loading).

6.4.4 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

Trigger Mode: Internal

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

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	0°,90°,180°,270°	A
L-N	1	-	0°,90°,180°,270°	A
L-E	2	+	0°,90°,180°,270°	A
L-E	2	-	0°,90°,180°,270°	A
N-E	2	+	0°,90°,180°,270°	A
N-E	2	-	0°,90°,180°,270°	A

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



Test Requirement:	EN IEC 55014-2:2021
Test Method:	EN 61000-4-6:2014

The diagram illustrates the experimental setup for the proposed antenna. It features a **Ground Reference Plane** with a **50mm > h > 30mm** gap. The setup includes an **AE1** (Antenna Element 1) connected to a **CDN** (Cable Network), which is connected to the **EUT** (Electromagnetic Under Test). The **EUT** is connected to **CDN2**, which is connected to **AE2** (Antenna Element 2). A **Power Attenuator** is connected to the **EUT** via a cable of length L , with a distance $L2 < 0.3m$ between the attenuator and the **EUT**. A **Signal Generator** and a **Power Amplifier** are connected to the **EUT** via a cable of length L , with a distance $L2 < 0.3m$ between the amplifier and the **EUT**. The **EUT** is supported by **0.1m Supports**.

Temperature: 23.7 °C Humidity: 68.3 % RH Atmospheric Pressure: 1010 mbar

Test Mode: Normal working mode(Max Loading).

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

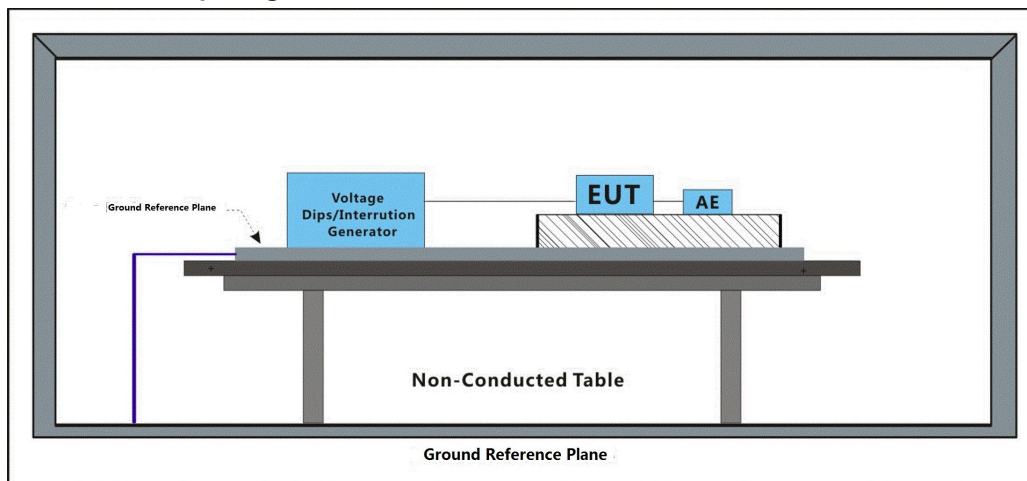
A: No degradation in the performance of the EUT was observed

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

6.6 Voltage Dips and Interruptions

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

6.6.1 Test Setup Diagram



6.6.2 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 68.3 % RH Atmospheric Pressure: 1010 mbar

6.6.3 Test Mode Description

Test Mode: Normal working mode(Max Loading).

6.6.4 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.

No. of Dips / Interruptions: 3 per Level

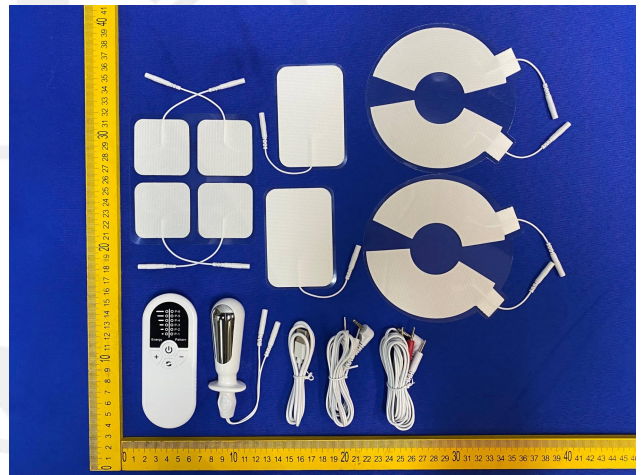
Time between dropout: 10s

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

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



7 EUT Constructional Details (EUT Photos)

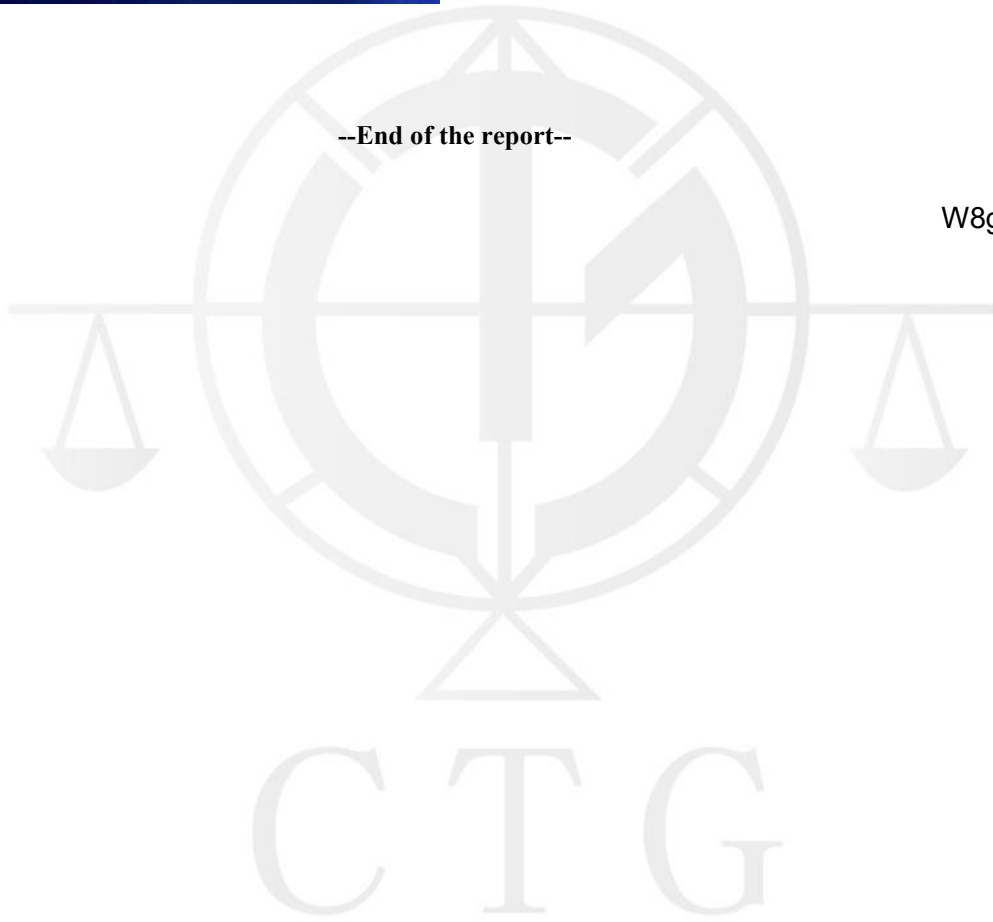




--End of the report--

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