SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555
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Email: ee.guangzhou@sgs.com

TEST REPORT

Application No.:	GZEM1805002694HS
Applicant:	Guangdong Gaobo Electrical Appliance Co., Ltd.
Address of Applicant:	Area Gaoling West Industrial Park, Liangdong Town, Lianjiang City, Guangdong, China
Manufacturer:	The same as applicant.
Address of Manufacturer:	The same as applicant.
Factory:	The same as applicant.
Address of Factory:	The same as applicant.
Equipment Under Test (EUT):	
EUT Name:	Rice cooker
Model No.:	Please refer to page 2 of this report for details.
Standard(s) :	EN 55014-1:2017
	EN 61000-3-2:2014
	EN 61000-3-3:2013
	EN 55014-2:2015
Date of Receipt:	2018-05-22
Date of Test:	2018-05-25 to 2018-05-29
Date of Issue:	2018-06-06
Test Result:	**Pass***

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

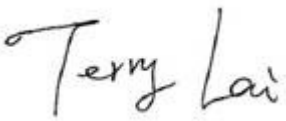
The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Kobe Jian
EMC Laboratory Manager

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

EUT Name:	Rice cooker
Model No.:	RC03-y, RC06A-*yz, SRC06a-*xyz, RC06B-*yz, RC08-*yz, SRC06a1-*xyz, RC10A-*yz, RC12A-*yz, SRC10a-*xyz, SRC12a-*xyz, DRC10a-*xmz, DRC12a-*xmz, RC10B-*yz, RC12B-*yz, SRC10a1-*xyz, SRC12a1-*xyz, DRC10a1-*xmz, DRC12a1-*xmz, RC15A-*yz, SRC15a-*xyz, DRC15a-*xmz, RC15B-*yz, SRC15a1-*xyz, DRC15a1-*xmz, SRC18a2-*xyz , RC18B-*yz, SRC18a1-*xyz, DRC18a1-*xmz, RC18A-*yz,SRC18a-*xyz, DRC18a-*xmz, RC18C-*yz, RC22B-*yz, SRC22a1-*xyz, DRC22a1-*xmz, RC22A-*yz, SRC22a-*xyz, DRC22a-*xmz, RC28B-*yz, SRC28a1-*xyz, DRC28a2-*xmz, RC28A-*yz, SRC28a-*xyz, DRC28a1-*xmz, DRC28a-*xmz, DRC32a-*xmz, RC36B-*yz, DRC32a1-*xmz, DRC36a1-*xmz, RC36A-*yz, DRC36a-*xmz, RC42B-*yz, RC42A-*yz, RC56B-*yz, RC56A-*yz, RC78A-*yz, RC78B-*yz, RC80B-*yz, RC80A-*yz, RC85B-*yz, RC85A-*yz, RC100A-*yz, RC100B-*yz, RC120B-*yz, RC120A-*yz (a = C or S, * = A to P, a to y, x = V, W or P, y = X or Y, m = A to O, z = 1, 2 or 3) ¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2018-06-06		Original

Authorized for issue by:				
Tested By		 **Allen_Zhou /Project Engineer**		2018-05-25 to 2018-05-29 **Date**
Checked By		 **Terry_Lai /Reviewer**		2018-06-06 **Date**

2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN 55014-1:2017	CISPR 16-2-1	N/A	Pass
Discontinuous Disturbance (150kHz-30MHz)	EN 55014-1:2017	EN 55014-1:2017	N/A	Pass
Disturbance Power	EN 55014-1:2017	CISPR 16-2-2	N/A	Pass
Harmonic Current Emission	EN 61000-3-2:2014	EN 61000-3-2:2014	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013	EN 61000-3-3:2013	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

Immunity Part				
Immunity	EN 55014-2:2015	EN 55014-2:2015	Clause 4.1 of EN 55014-2	Pass
N/A: Not applicable				

There is no EMS test requirment , since the EUT belongs to Category Ⅰ of EN 55014-2:2015

¤ Declaration of EUT Family Grouping:

Model No.: RC03-y, RC06A-*yz, SRC06a-*xyz, RC06B-*yz, RC08-*yz, SRC06a1-*xyz, RC10A-*yz, RC12A-*yz, SRC10a-*xyz, SRC12a-*xyz, DRC10a-*xmz, DRC12a-*xmz, RC10B-*yz, RC12B-*yz, SRC10a1-*xyz, SRC12a1-*xyz, DRC10a1-*xmz, DRC12a1-*xmz, RC15A-*yz, SRC15a-*xyz, DRC15a-*xmz, RC15B-*yz, SRC15a1-*xyz, DRC15a1-*xmz, SRC18a2-*xyz , RC18B-*yz, SRC18a1-*xyz, DRC18a1-*xmz, RC18A-*yz,SRC18a-*xyz, DRC18a-*xmz, RC18C-*yz, RC22B-*yz, SRC22a1-*xyz, DRC22a1-*xmz, RC22A-*yz, SRC22a-*xyz, DRC22a-*xmz, RC28B-*yz, SRC28a1-*xyz, DRC28a2-*xmz, RC28A-*yz, SRC28a-*xyz, DRC28a1-*xmz, DRC28a-*xmz, DRC32a-*xmz, RC36B-*yz, DRC32a1-*xmz, DRC36a1-*xmz, RC36A-*yz, DRC36a-*xmz, RC42B-*yz, RC42A-*yz, RC56B-*yz, RC56A-*yz, RC78A-*yz, RC78B-*yz, RC80B-*yz, RC80A-*yz, RC85B-*yz, RC85A-*yz, RC100A-*yz, RC100B-*yz, RC120B-*yz, RC120A-*yz ((a = C or S, * = A to P, a to y, x = V, W or P, y = X or Y, m = A to O, z = 1, 2 or 3)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name, power and appearance.

Therefore only one model **RC120A-AY2 with maximum power(3500W)** was tested in this report.

3 Contents

4 General Information

4.1 Details of E.U.T.

Power Supply: AC 220-240V, 50/60Hz
Test Voltage: AC 230V
Cable: 3 wires ×1.0m unscreened AC mains cable

4.2 Description of Support Units

The EUT has been tested with water as load.

4.3 Measurement Uncertainty

EMC

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	3.63dB (9kHz to 150kHz)
		3.22dB (150kHz to 30MHz)
2	Disturbance Power	3.78dB
3	Radiated Emissions	5.0dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)
4	Temperature	0.4℃
5	Humidity	1.3%
6	DC power	0.5 %

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

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

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584，G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2018-01-19	2019-01-18
LISN	SCHAFFNER CHASE	MN2050D/1	EMC0102	2017-09-20	2018-09-19
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2017-11-27	2018-11-26
Coaxial Cable	HangTianXing	2m	EMC0107	2016-07-24	2018-07-23
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18

Discontinuous Disturbance (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Click Meter	AFJ	CL55C	EMC2049	2017-06-19	2018-06-18
Coaxial Cable	N/A	1.5m	EMC0206	2016-09-20	2018-09-19
LISN	AFJ	LS16-OPT001	EMC0203	2018-01-08	2019-01-07

Disturbance Power					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2017-11-27	2018-11-26
Absorbing Clamp	Beijing Dazhe Co. Ltd.	ZN23201	EMC2040	2018-01-11	2019-01-10
7m Coaxial Cable	SGS	7m	EMC0303	2017-06-30	2019-06-29
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Slide Bar Controller	HD-GmbH	HD50	EMC0305	N/A	N/A
Slide Bar RP	HD-GmbH	KMS560	EMC0103	N/A	N/A

Harmonic Current Emission					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
AC Power Source	California	50001iX	EMC0608	2018-04-08	2019-04-08
Power Analyzer	California	PACS	EMC0607	2018-04-08	2019-04-08

Voltage Fluctuations and Flicker					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
AC Power Source	California	50001iX	EMC0608	2018-04-08	2019-04-08
Power Analyzer	California	PACS	EMC0607	2018-04-08	2019-04-08

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2017-07-26	2018-07-25
DMM	Fluke	73	EMC0007	2017-07-26	2018-07-25

6 Emission Test Results

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

Test Requirement:	EN 55014-1:2017
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
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

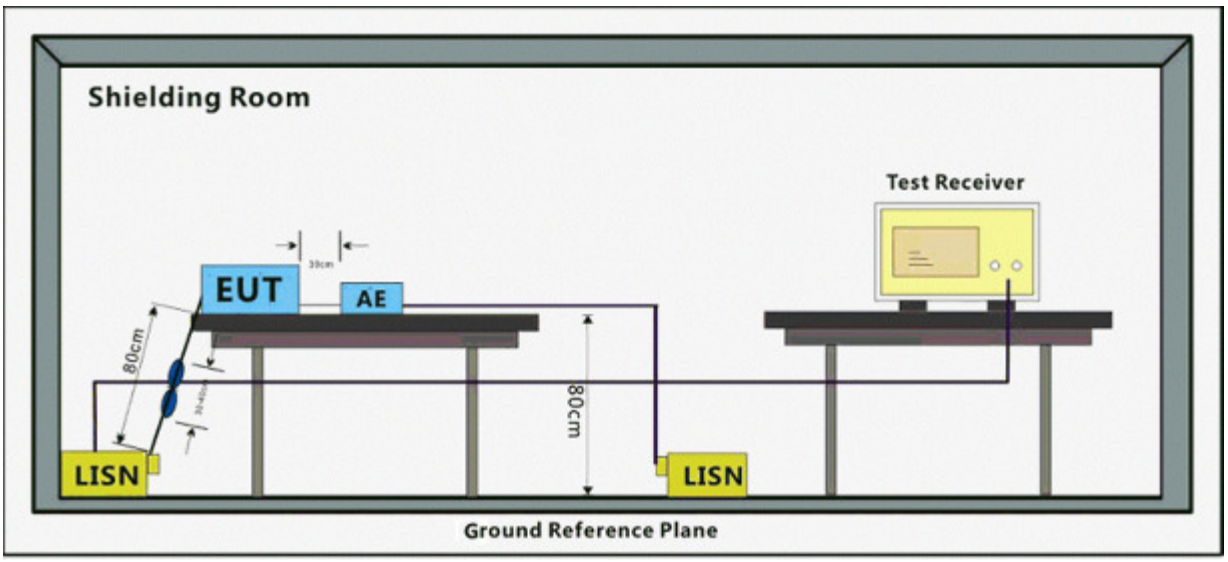
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:	a:Test the EUT in heating mode. b:Test the EUT in keep warming mode.
The worst case for final test:	b:Test the EUT in keep warming mode.

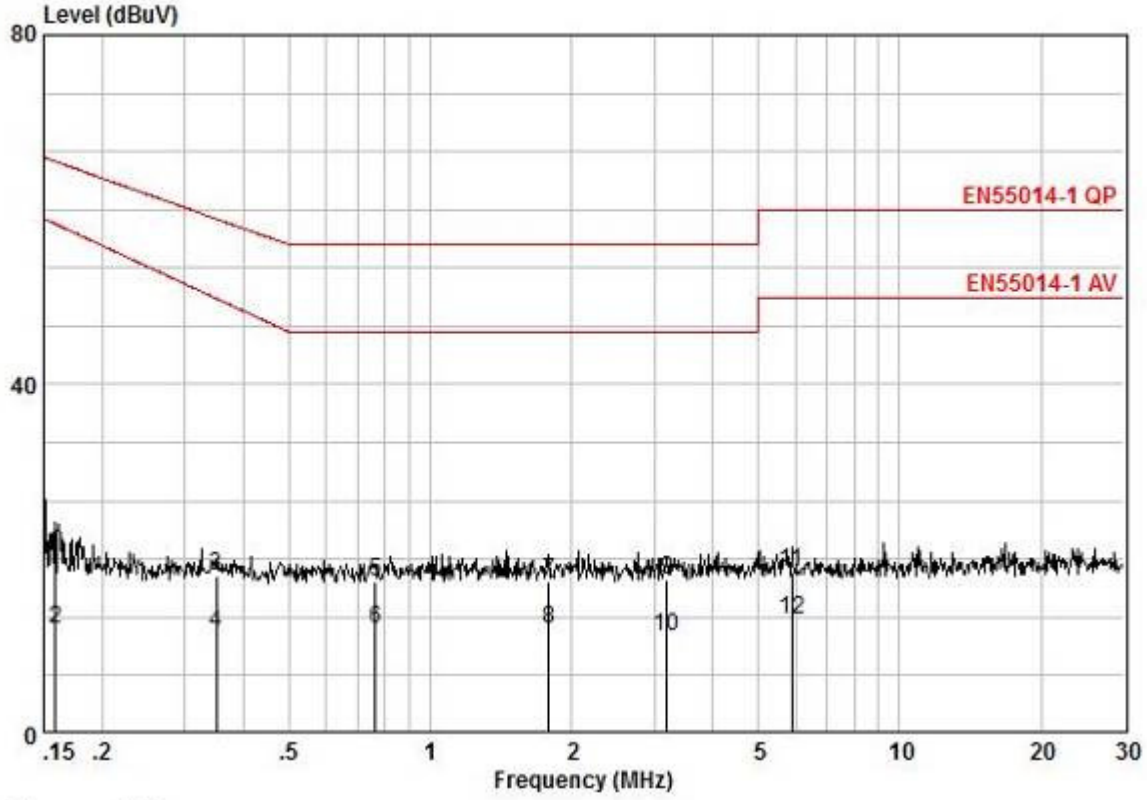
6.1.2 Test Setup Diagram



6.1.3 Measurement Data

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

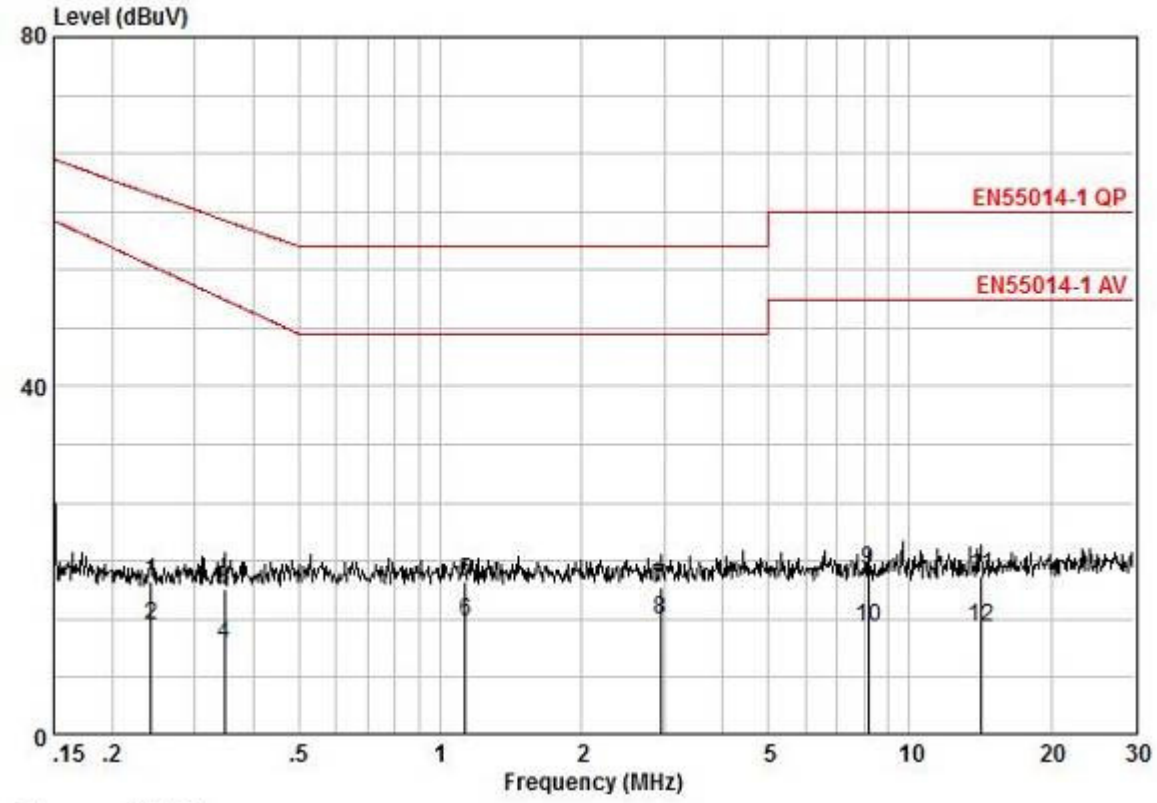
Mode:a; Line:Live Line



Pol :LIVE
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.16	9.94	0.10	9.65	19.69	65.52	-45.83	QP
0.16	2.30	0.10	9.65	12.05	58.37	-46.32	AVERAGE
0.35	8.38	0.16	9.64	18.18	58.96	-40.78	QP
0.35	1.83	0.16	9.64	11.63	49.85	-38.22	AVERAGE
0.76	7.58	0.26	9.65	17.49	56.00	-38.51	QP
0.76	2.14	0.26	9.65	12.05	46.00	-33.95	AVERAGE
1.79	7.52	0.36	9.66	17.54	56.00	-38.46	QP
1.79	1.91	0.36	9.66	11.93	46.00	-34.07	AVERAGE
3.19	7.48	0.55	9.68	17.72	56.00	-38.28	QP
3.19	0.91	0.55	9.68	11.15	46.00	-34.85	AVERAGE
5.90	8.02	0.68	9.72	18.42	60.00	-41.58	QP
5.90	2.75	0.68	9.72	13.15	50.00	-36.85	AVERAGE

Mode:a; Line:Neutral Line



Pol :NEUTRAL
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.24	7.98	0.12	9.66	17.76	62.04	-44.28	QP
0.24	2.91	0.12	9.66	12.69	53.85	-41.16	AVERAGE
0.35	7.06	0.16	9.66	16.88	59.05	-42.17	QP
0.35	0.75	0.16	9.66	10.57	49.96	-39.39	AVERAGE
1.13	7.62	0.30	9.68	17.60	56.00	-38.40	QP
1.13	3.14	0.30	9.68	13.12	46.00	-32.88	AVERAGE
2.95	6.78	0.53	9.70	17.01	56.00	-38.99	QP
2.95	3.07	0.53	9.70	13.30	46.00	-32.70	AVERAGE
8.15	8.54	0.63	9.80	18.97	60.00	-41.03	QP
8.15	1.91	0.63	9.80	12.34	50.00	-37.66	AVERAGE
14.21	7.70	0.70	9.97	18.37	60.00	-41.63	QP
14.21	1.83	0.70	9.97	12.50	50.00	-37.50	AVERAGE

6.2 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement:	EN 55014-1:2017
Test Method:	EN 55014-1:2017
Frequency Range:	150kHz to 30MHz
Limit:	
0.15MHz	Limit=66dB(μV)+Lq
	Lq= 44 dB N < 0.2
	Lq= 20 lg(30/N) dB 0.2≤N<30
0.5MHz	Limit=56dB(μV)+Lq
	Lq= 44 dB N < 0.2
	Lq= 20 lg(30/N) dB 0.2≤N<30
1.4MHz	Limit=56dB(μV)+Lq
	Lq= 44 dB N < 0.2
	Lq=20 lg(30/N) dB 0.2≤N<30
30MHz	Limit=60dB(μV)+Lq
	Lq= 44 dB N < 0.2
	Lq= 20 lg(30/N) dB 0.2≤N<30
	Lq is click limit, N is click rates
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.2.1 E.U.T. Operation

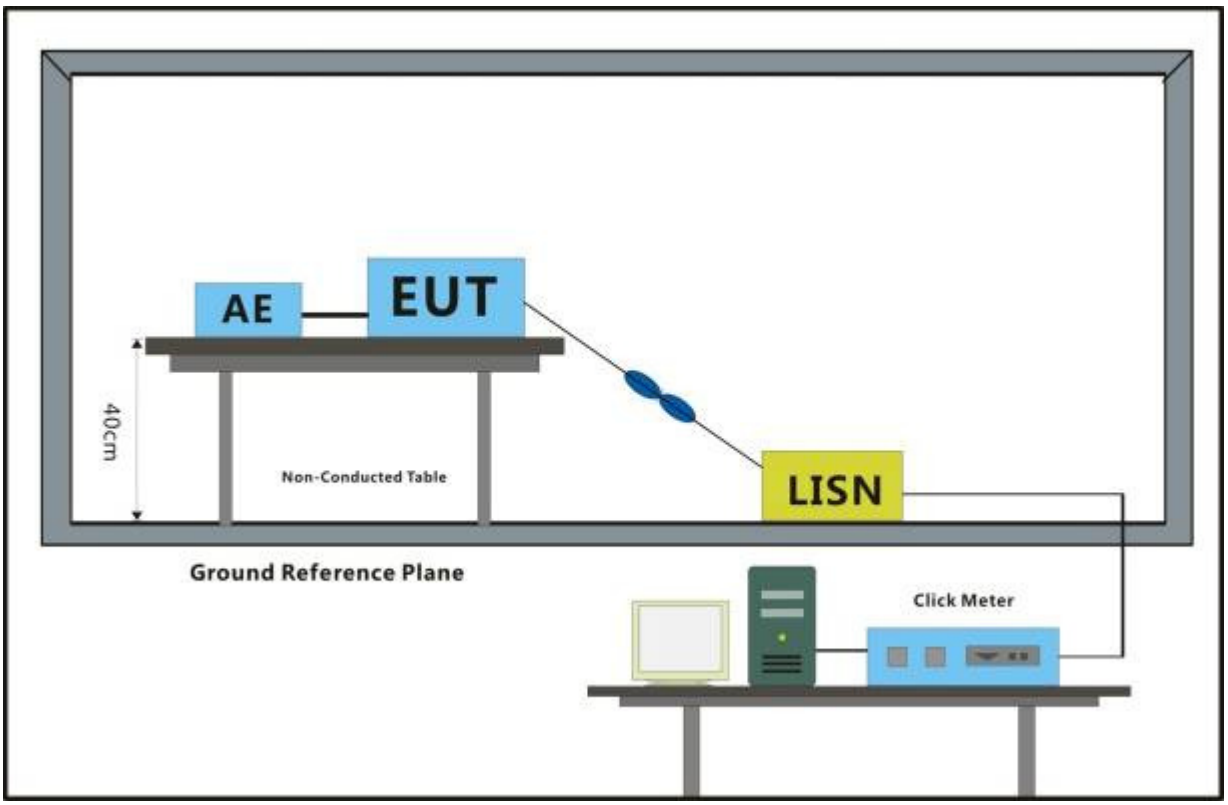
Operating Environment:

Temperature:	26.4 °C	Humidity:	48.7 % RH	Atmospheric Pressure:	1020	mbar

Pretest these modes to find the worst case:
a:Test the EUT in heating mode.
b:Test the EUT in keep warming mode.

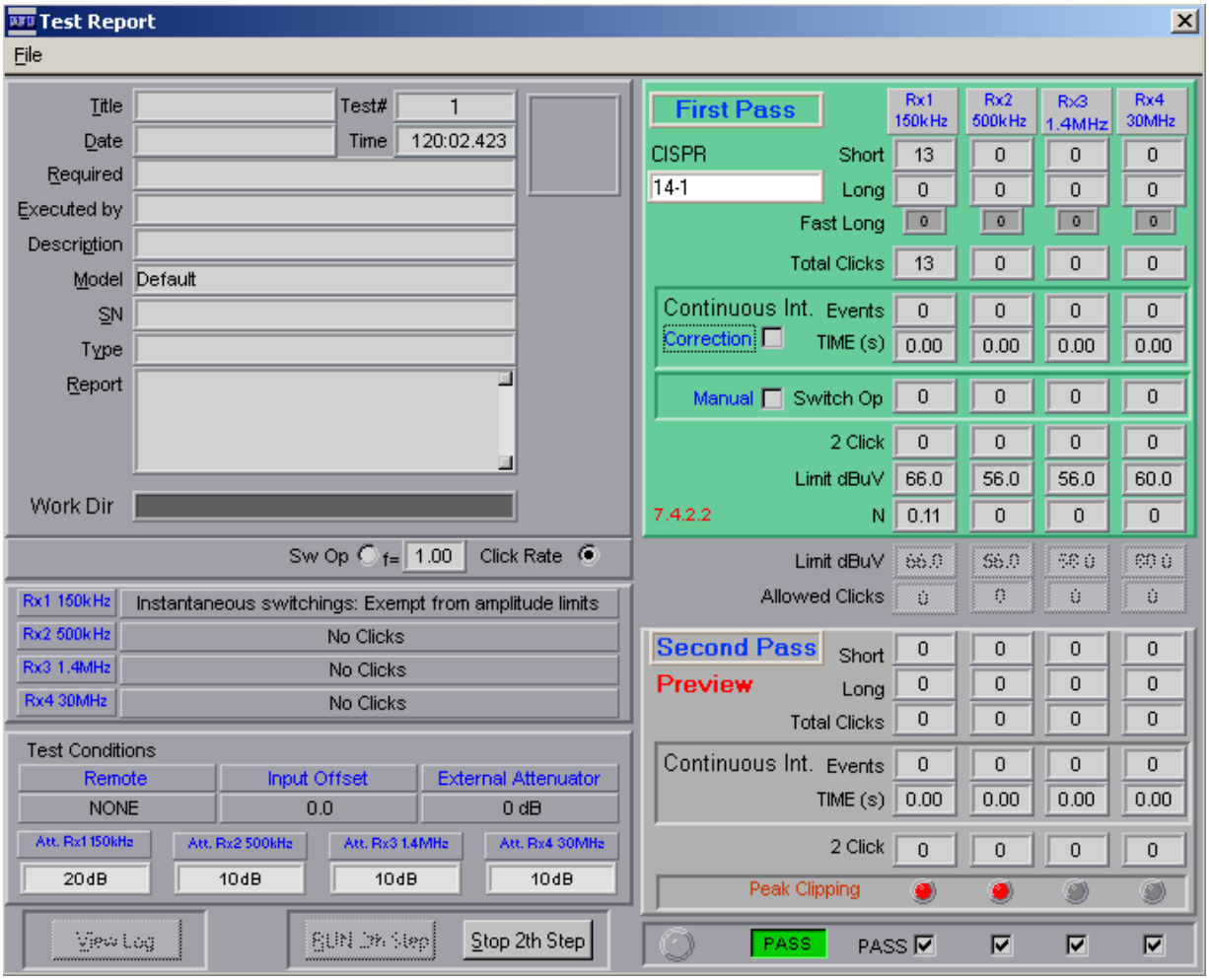
The worst case for final test:
b:Test the EUT in keep warming mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Mode:b



6.3 Disturbance Power

Test Requirement:	EN 55014-1:2017
Test Method:	CISPR 16-2-2
Frequency Range:	30MHz to 300MHz
Limit:	
30MHz- 300MHz	45dB(pw)-55dB(pw) quasi-peak, 35dB(pw)-45dB(pw) average
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 300MHz

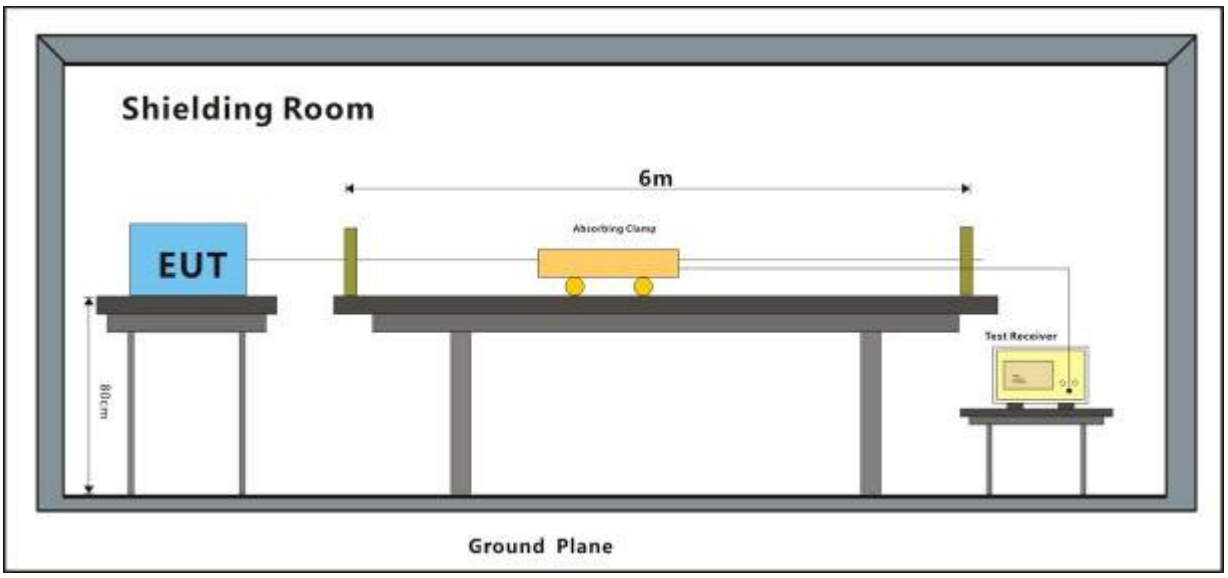
6.3.1 E.U.T. Operation

Operating Environment:

Temperature:	24.4 °C	Humidity:	50.8 % RH	Atmospheric Pressure:	1020	mbar

Pretest these modes to find the worst case:	a:Test the EUT in heating mode. b:Test the EUT in keep warming mode.
The worst case for final test:	b:Test the EUT in keep warming mode.

6.3.2 Test Setup Diagram

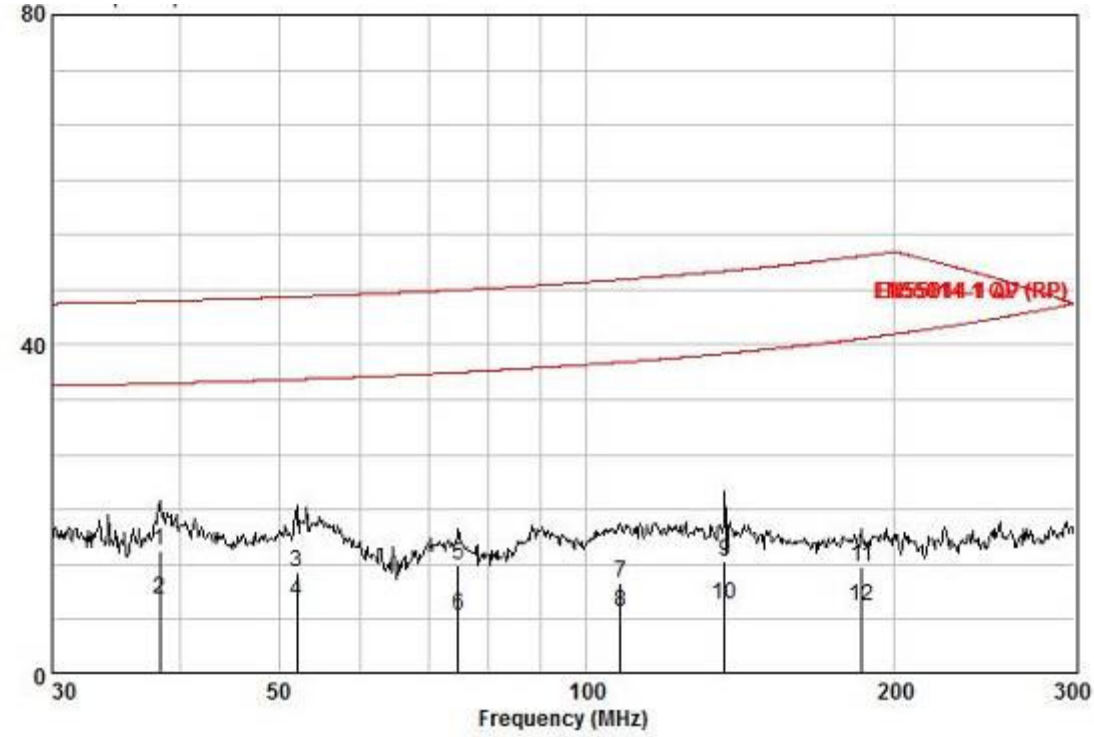


6.3.3 Measurement Data

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

Mode:a

Level dB(pW)



No :
Mode :

Frequency MHz	Read level dBuV	Cable Loss dB	Clamp Factor dBpW/dBuV	Measured level dBpW	Limit Line dBpW	Over limit dB	Remark
38.205	9.80	0.97	4.36	15.13	45.30	-30.18	QP
38.205	3.81	0.97	4.36	9.14	35.30	-26.17	AVERAGE
52.014	6.84	1.12	4.49	12.45	45.82	-33.37	QP
52.014	3.25	1.12	4.49	8.86	35.82	-26.96	AVERAGE
74.838	8.60	1.25	3.37	13.22	46.66	-33.44	QP
74.838	2.57	1.25	3.37	7.19	36.66	-29.47	AVERAGE
107.925	5.20	1.54	4.34	11.08	47.89	-36.81	QP
107.925	1.68	1.54	4.34	7.56	37.89	-30.32	AVERAGE
136.496	8.00	1.70	4.03	13.73	48.95	-35.22	QP
136.496	2.87	1.70	4.03	8.60	38.94	-30.35	AVERAGE
185.832	8.34	1.93	2.70	12.97	50.77	-37.80	QP
185.832	3.76	1.93	2.70	8.39	40.77	-32.38	AVERAGE

6.4 Harmonic Current Emission

Test Requirement: EN 61000-3-2:2014

Test Method: EN 61000-3-2:2014

Frequency Range: 100Hz to 2kHz

6.4.1 E.U.T. Operation

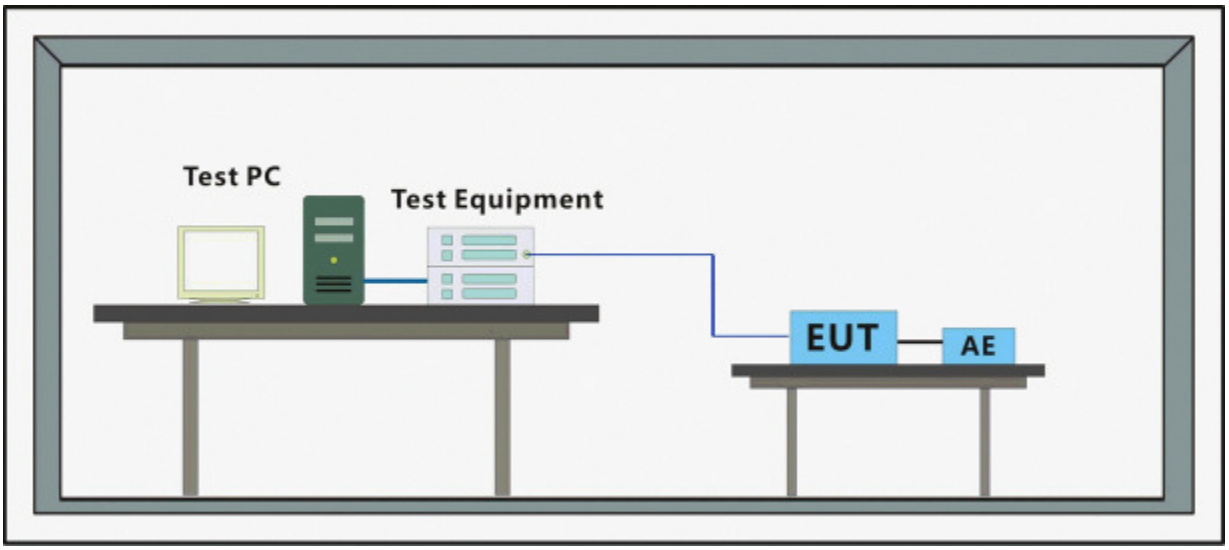
Operating Environment:

Temperature: 26.4 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a:Test the EUT in heating mode.
b:Test the EUT in keep warming mode.

The worst case for final test: a:Test the EUT in heating mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

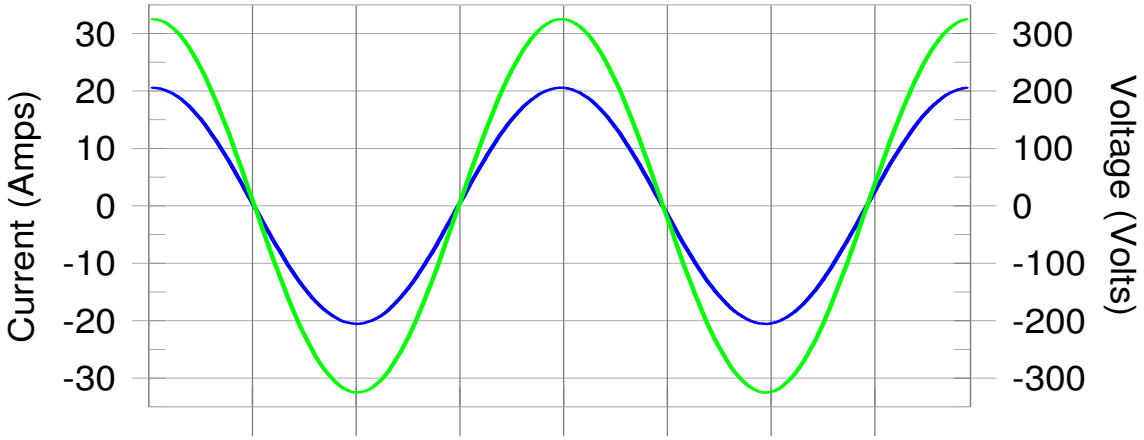
Mode a:

Harmonics – Class-A per Ed. 4.0 (2014)(Run time)

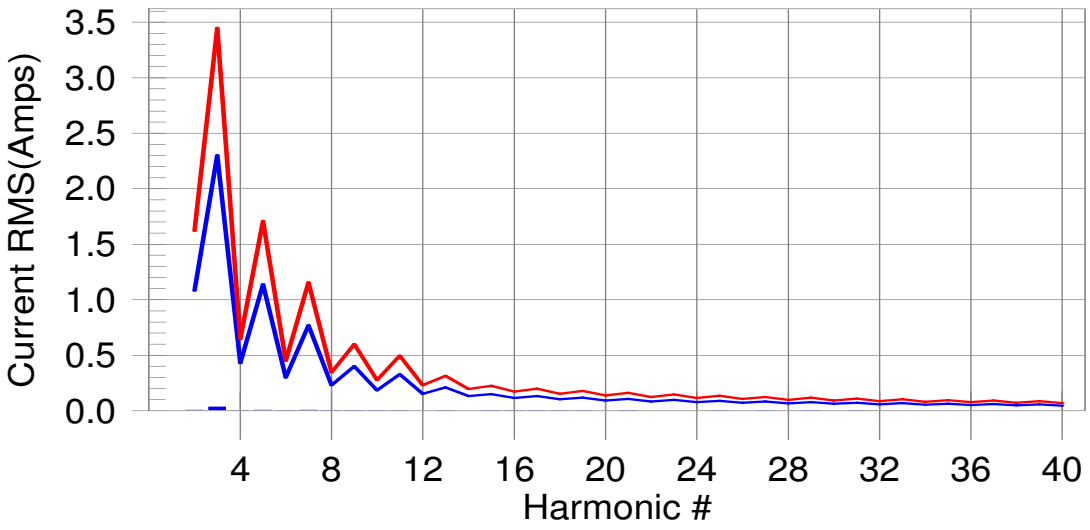
Test category: Class-A per Ed. 4.0 (2014) (European limits) Test Margin: 100
Test duration (min): 3

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonic was #0 with 0.0% of the limit.

Current Test Result Summary (Run time)

EUT: Equipment under test **Tested by: Tested by**
Test category: Class-A per Ed. 4.0 (2014) (European limits) **Test Margin: 100**
Test duration (min): 3

Test Result: Pass **Source qualification: Normal**
THC(A): 0.036 **I-THD(%): 0.2** **POHC(A): 0.000** **POHC Limit(A): 0.251**
Highest parameter values during test:

V_RMS (Volts):	**229.91**	**Frequency(Hz):**	**50.00**
I_Peak (Amps):	**20.568**	**I_RMS (Amps):**	**14.538**
I_Fund (Amps):	**14.533**	**Crest Factor:**	**1.416**
Power (Watts):	**3340.9**	**Power Factor:**	**1.000**

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.007	1.080	N/A	0.010	1.620	N/A	Pass
3	0.033	2.300	N/A	0.038	3.450	N/A	Pass
4	0.004	0.430	N/A	0.006	0.645	N/A	Pass
5	0.004	1.140	N/A	0.006	1.710	N/A	Pass
6	0.002	0.300	N/A	0.003	0.450	N/A	Pass
7	0.006	0.770	N/A	0.007	1.155	N/A	Pass
8	0.001	0.230	N/A	0.002	0.345	N/A	Pass
9	0.001	0.400	N/A	0.002	0.600	N/A	Pass
10	0.002	0.184	N/A	0.002	0.276	N/A	Pass
11	0.001	0.330	N/A	0.002	0.495	N/A	Pass
12	0.001	0.153	N/A	0.001	0.230	N/A	Pass
13	0.002	0.210	N/A	0.002	0.315	N/A	Pass
14	0.000	0.131	N/A	0.000	0.197	N/A	Pass
15	0.002	0.150	N/A	0.002	0.225	N/A	Pass
16	0.001	0.115	N/A	0.002	0.173	N/A	Pass
17	0.002	0.132	N/A	0.003	0.198	N/A	Pass
18	0.001	0.102	N/A	0.001	0.153	N/A	Pass
19	0.002	0.118	N/A	0.002	0.178	N/A	Pass
20	0.001	0.092	N/A	0.001	0.138	N/A	Pass
21	0.002	0.107	N/A	0.002	0.161	N/A	Pass
22	0.001	0.084	N/A	0.001	0.125	N/A	Pass
23	0.001	0.098	N/A	0.001	0.147	N/A	Pass
24	0.000	0.077	N/A	0.000	0.115	N/A	Pass
25	0.001	0.090	N/A	0.001	0.135	N/A	Pass
26	0.000	0.071	N/A	0.000	0.107	N/A	Pass
27	0.001	0.083	N/A	0.001	0.125	N/A	Pass
28	0.000	0.066	N/A	0.000	0.099	N/A	Pass
29	0.001	0.078	N/A	0.001	0.116	N/A	Pass
30	0.000	0.061	N/A	0.000	0.092	N/A	Pass
31	0.001	0.073	N/A	0.001	0.109	N/A	Pass
32	0.000	0.058	N/A	0.000	0.086	N/A	Pass
33	0.001	0.068	N/A	0.001	0.102	N/A	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.001	0.064	N/A	0.001	0.096	N/A	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.001	0.061	N/A	0.001	0.091	N/A	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.001	0.058	N/A	0.001	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013

Test Method: EN 61000-3-3:2013

6.5.1 E.U.T. Operation

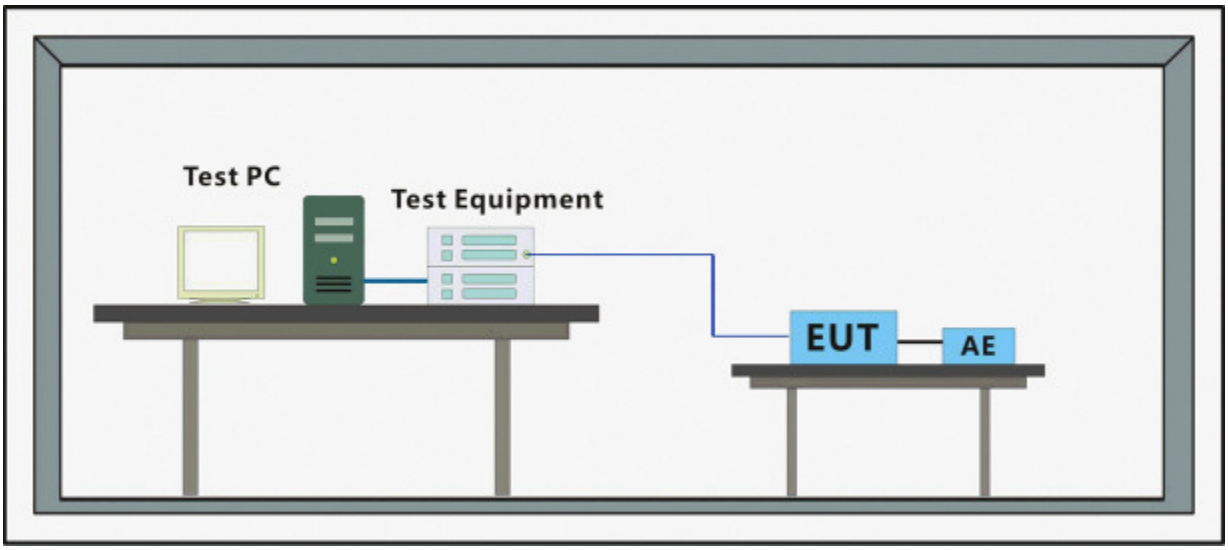
Operating Environment:

Temperature: 26.4 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a:Test the EUT in heating mode.
b:Test the EUT in keep warming mode.

The worst case for final test: b:Test the EUT in keep warming mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

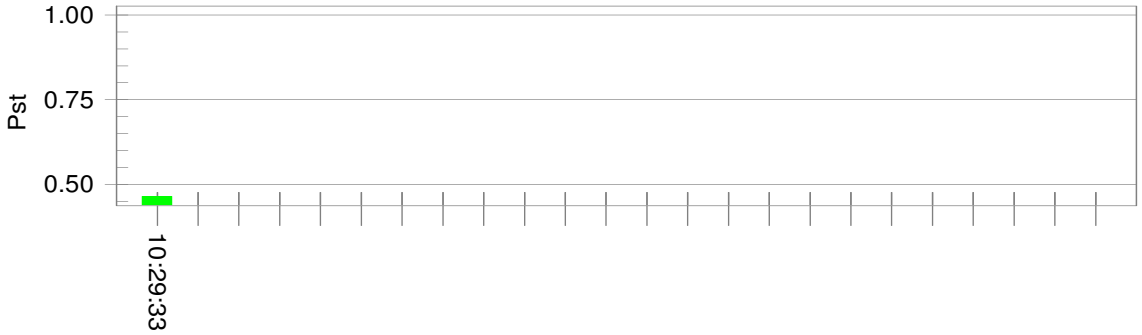
Mode b:

Flicker Test Summary per EN61000-3-3 (Run time)

Test category: dt,dmax,dc and Pst (European limits) **Test Margin: 100**
Test duration (min): 10

Test Result: Pass **Status: Test Completed**

Pst_i and limit line **European Limits**



Parameter values recorded during the test:

Vrms at the end of test (Volt):	**229.98**			
Highest dt (%):	**0.73**	**Test limit (%):**	**N/A**	**N/A**
T-max (mS):	**0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.72**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.74**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.464**	**Test limit:**	**1.000**	**Pass**

7 Immunity Test Results

Test Requirement: EN 55014-2:2015

Test Method: N/A: See Remark Below

There is no need for immunity tests to be performed on this product in accordance with clause 7.2.1 of EN 55014-2 which states:

“Category I apparatus is deemed to fulfil the relevant immunity requirement without testing.”

For further details, please refer to clause 4.1 of EN 55014-2 which states:

“Category I: apparatus containing no electronic control circuitry.

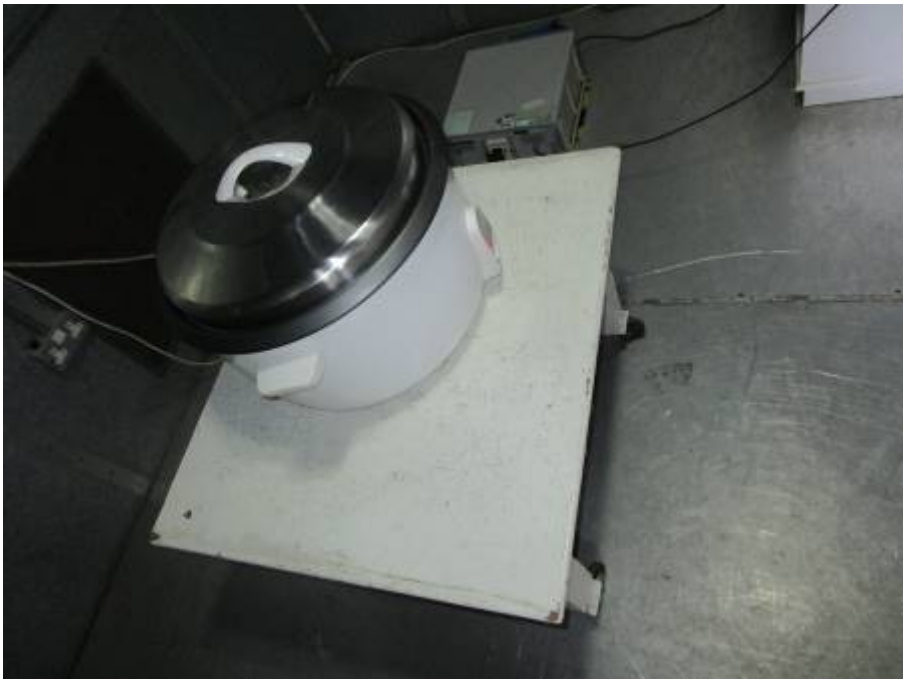
Example: motor operated appliances, lighting toys, track sets without electronic control units, tools, heating appliances UV and IR radiators and apparatus containing components such as electromechanical switches and thermostats.

Electric circuits consisting of passive components (such as radio interference suppression capacitors or inductors, mains transformers and mains frequency rectifiers) are not considered to be electronic control circuitry.”

8 Photographs

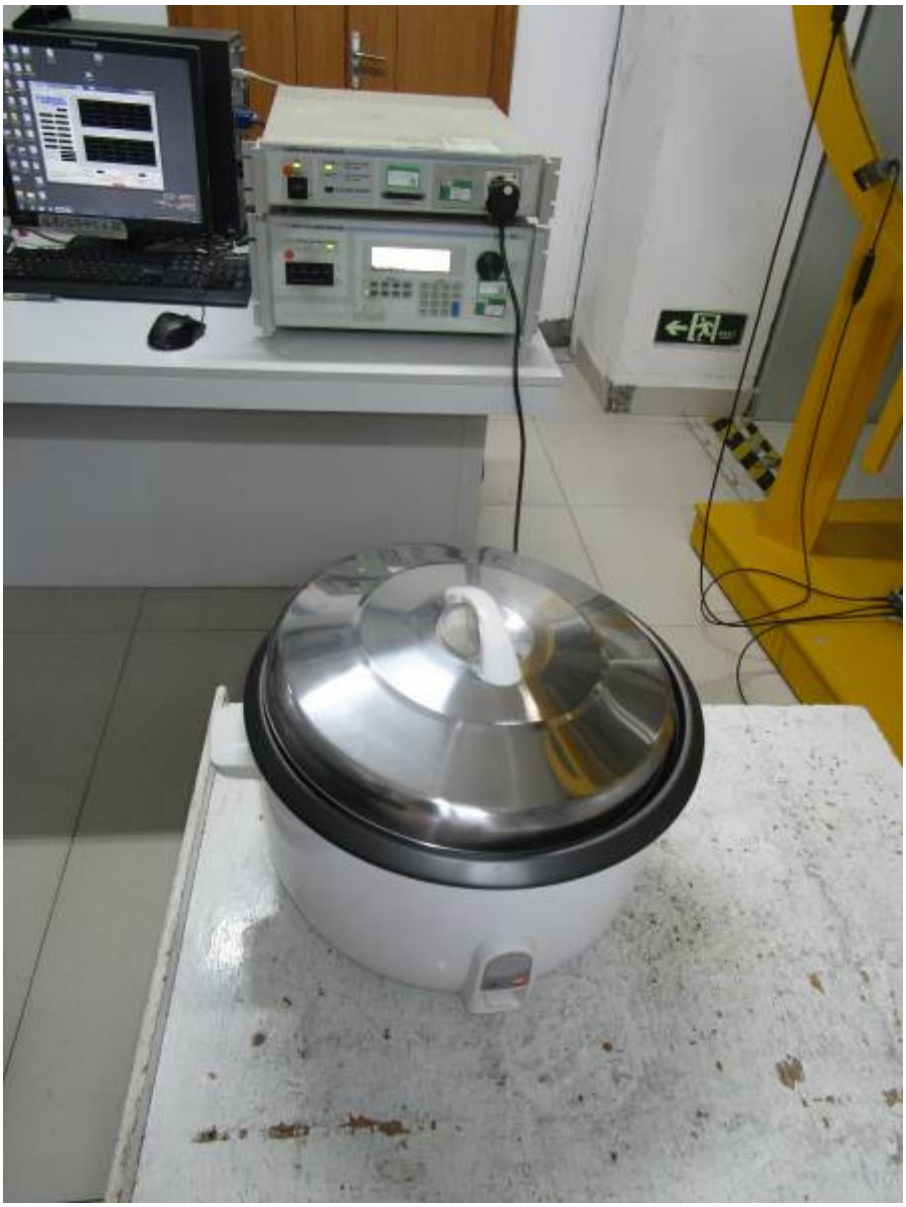
8.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

8.2 Discontinuous Disturbance (150kHz-30MHz) Test Setup

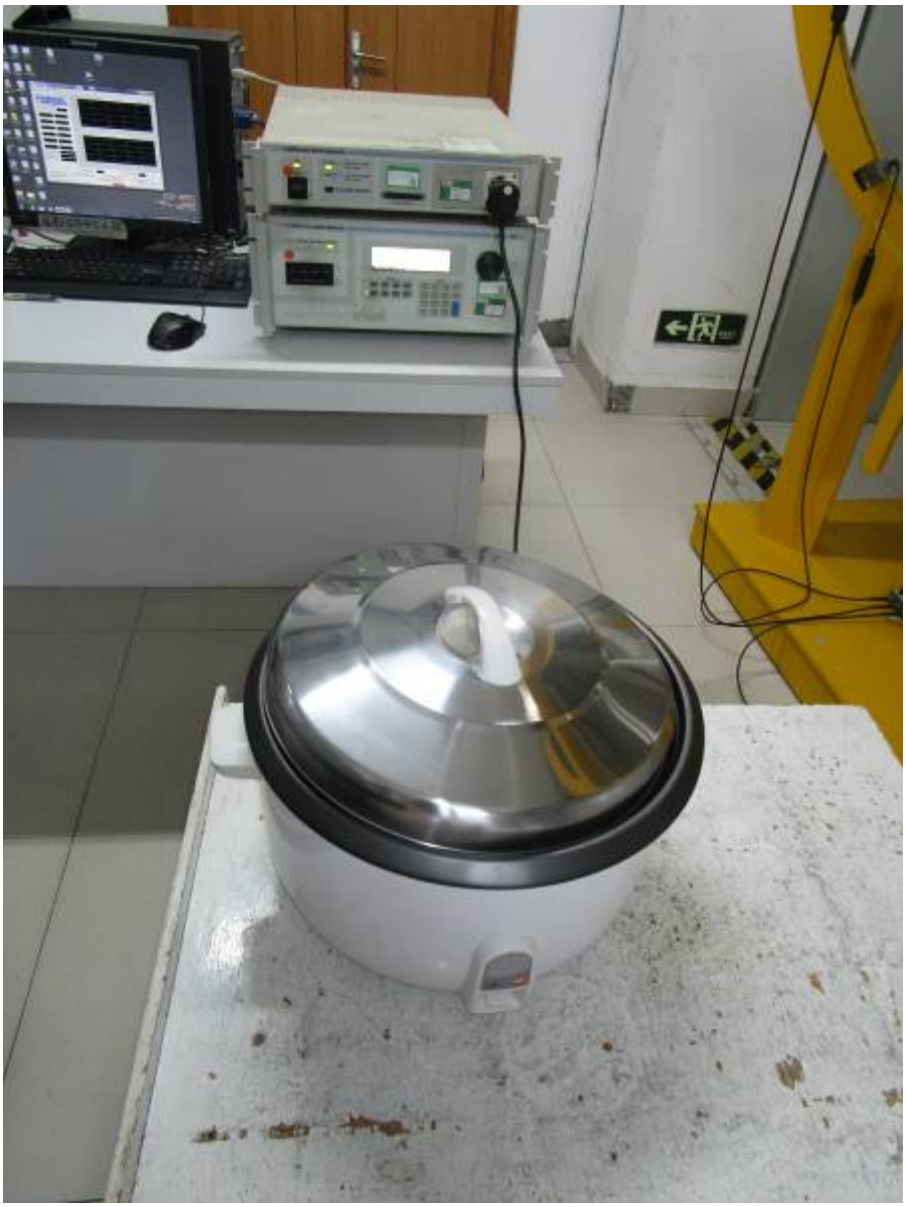


8.3 Disturbance Power Test Setup

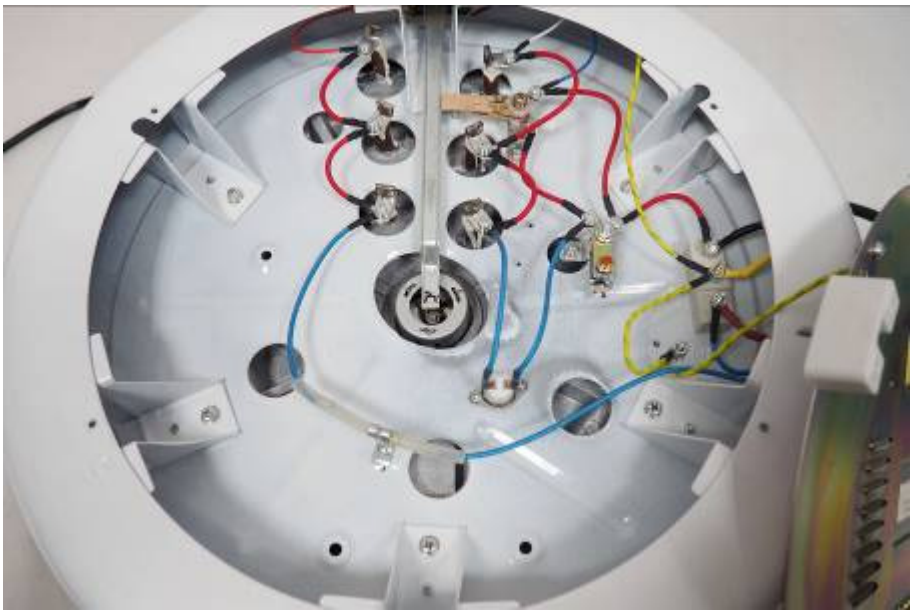
8.4 Harmonic Current Emission Test Setup



8.5 Voltage Fluctuations and Flicker Test Setup



8.6 EUT Constructional Details



The photo below were supplied by applicant.
Model DRC32S-xPB3

Model RC18A-IX3

Model SRC28C-qVX3

--End of Report—