

EMC TEST REPORT

For
Suzhou Langji Technology Co., Ltd.

Cabinet Air Conditioner

Model No.: SAD115-2, SAD103-2, SAD104-2, SAD105-2, SAD106-2,
SAD108-2, SAD110-2, SAD112-2, SAD120-2, SAD125-2,
SAD130-2, SAD135-2, SAD150-2, SDC115-1, SDC103-1,
SDC104-1, SDC106-1, SDC108-1, SDC110-1, SDC120-1

Prepared For : Suzhou Langji Technology Co., Ltd.
Workshop No. 3, No. 58, Tongxin Road, Tongan Town,
High-Tech Zone, Suzhou, Jiangsu Province, China

Prepared By : Beide (Shenzhen) Product Service Limited
China: 6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an Dist,
Shenzhen, China

Report Number: B-E190724336

Date of Test: Jul.02-08,2019

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TEST REPORT DECLARATION

Applicant : Suzhou Langji Technology Co., Ltd.
Address : Workshop No. 3, No. 58, Tongxin Road, Tongan Town,
High-Tech Zone, Suzhou, Jiangsu Province, China
Client No. : 05128802
Manufacturer : Suzhou Langji Technology Co., Ltd.
Address : Workshop No. 3, No. 58, Tongxin Road, Tongan Town,
High-Tech Zone, Suzhou, Jiangsu Province, China
EUT Description : Cabinet Air Conditioner
Model No. : SAD115-2, SAD103-2, SAD104-2, SAD105-2, SAD106-2,
SAD108-2, SAD110-2, SAD112-2, SAD120-2, SAD125-2,
SAD130-2, SAD135-2, SAD150-2, SDC115-1, SDC103-1,
SDC104-1, SDC106-1, SDC108-1, SDC110-1, SDC120-1
Power Supply : 220-240V~,50Hz,2.75A,605W
Remark : Use SAD115-2 do all the tests

Test Procedure Used:

EN 55014-1:2017; EN 61000-3-2:2014; EN 61000-3-3:2013;
EN 55014-2:2015 (EN 61000-4-2:2009, EN 61000-4-4:2012,
EN 61000-4-5:2014, EN 61000-4-6:2014, EN 61000-4-11:2004)

The device described above is tested by Beide (Shenzhen) Product Service Limited to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and it's performance criterion. The test results are contained in this test report. Beide (Shenzhen) Product Service Limited is assumed of full responsibility for the accuracy and completeness of these tests. Also, this report shows that the EUT is technically compliant with the EN 55014-1, EN 61000-3-2 and EN 61000-3-3 and EN 55014-2 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Beide (Shenzhen) Product Service Limited.

Date of Test : Jul.02-08,2019

Prepared by : Sophia Jiang
(Sophia jiang)

Checked by : Austin Zhong
(Austin zhong)

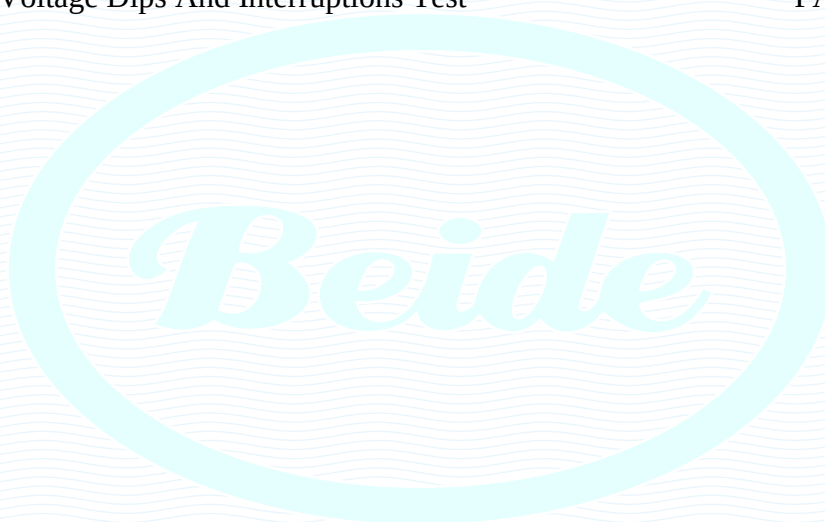
Approved by : Martin Wang
(Martin wang)



1.TEST RESULTS SUMMARY

Test Results Summary

Test Items	Test Results
1 Power Line Conducted Emission Test	PASS
2 Disturbance Power Test	PASS
3 Harmonic Current Test	PASS
4 Voltage Fluctuations & Flicker Test	PASS
5 Electrostatic Discharge Test	PASS
6 Electrical Fast Transient/Burst Test	PASS
7 Surge Test	PASS
8 Injected Currents Susceptibility Test	PASS
9 Voltage Dips And Interruptions Test	PASS



2.GENERAL INFORMATION

2.1.Report Information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BEIDE approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BEIDE in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by applicant, BEIDE therefore assumes no responsibility for the accuracy of information on the brand names, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the applicant at an additional fee. No third part can obtain a copy of this report through BEIDE, unless the applicant has authorized BEIDE in writing to do so.

2.2.Description of Device (EUT)

Description	:	Cabinet Air Conditioner
Model Number	:	SAD115-2
Applicant	:	Suzhou Langji Technology Co., Ltd.
Address	:	Workshop No. 3, No. 58, Tongxin Road, Tongan Town, High-Tech Zone, Suzhou, Jiangsu Province, China
Manufacturer	:	Suzhou Langji Technology Co., Ltd.
Address	:	Workshop No. 3, No. 58, Tongxin Road, Tongan Town, High-Tech Zone, Suzhou, Jiangsu Province, China

2.3. Test Facility

Site Description

Tested by : Beide (Shenzhen) Product Service Limited

Site Location : 6F, Bldg E, Hourui 3rd Ind Zone, Xixiang, Bao'an
Dist, Shenzhen, China

2.4. Test Uncertainty

Conducted Emission Uncertainty = $\pm 2.66\text{dB}$

Radiated Emission Uncertainty = $\pm 3.26\text{dB}$

2.5. Test Condition

Test Mode: ON

2.6. Test Conditions

Temperature: 22°C-28°C

Relative Humidity: 45%-68%

2.7. Performance Criterion

Performance 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 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.

Performance 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 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, of 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.

Performance 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.

3.TEST INSTRUMENT USED

3.1.For Power Line Conducted Emission Test (In Shielding Room)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	ROHDE&SCHWARZ	ESCS30	828985/018	2018.08.18	1 Year
2.	LISN	ROHDE&SCHWARZ	ESH2-Z5	834549/005	2018.08.18	1 Year
3.	50Ω Coaxial Switch	ANRITSU	MP59B	M20531	2018.08.18	1 Year
4.	Pulse Limiter	ROHDE&SCHWARZ	ESH3-Z2	100006	2018.08.18	1 Year
5.	Voltage Probe	ROHDE&SCHWARZ	TK9416	N/A	NCR	NCR

3.2.For Disturbance Power Test (In Shielding Room)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum analyzer	ADVANTEST	R3261C	51720141	2018.08.18	1 Year
2.	EMI Test receiver	R&S	ESS	92822-1	2018.08.18	1 Year
3.	Pre Amplifier	Anritsu	MH648A	0983	2018.08.18	1 Year
4.	Absorbing Clamp	R&S	MDS-21	837/23	2018.08.18	1 Year
5.	Absorbing Clamp	R&S	MDS-21	837/24	2018.08.18	1 Year
6.	Absorbing Clamp	Kyoritsu	KT-20	8220	2018.08.18	1 Year
7.	RF Selector	TOYO	NS4000	432099	NCR	NCR
8.	Remote Controller	TOYO	MAC	N/A	NCR	NCR

3.3.For Harmonic / Flicker Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Conditioning Unit	SCHAFFNER	CCN1000-1	23980/7	2018.08.18	1 Year
2.	Signal Phase Impedance Network	SCHAFFNER	INA2152	0929-2	2018.08.18	1 Year
3.	5KVA AC Power Source	SCHAFFNER	NSG1007	2983332	2018.08.18	1 Year

3.4.For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	Noiseken	ESS-200AX	0223	2018.08.18	1 Year

3.5.For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Ultra Compact Simulator	EM TEST	UCS500M6	0500-19	2018.08.18	1 Year

3.6.For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	2018.08.18	1 Year

3.7.For Injected Currents Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	IFR	2032	203002/100	2018.08.18	1 Year
2.	Amplifier	A&R	150W1000	301584	2018.08.18	NCR

3.8.For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HEAFELY	PLINE 1610	083732-18	2018.08.18	1 Year

4.1. Block Diagram of Test Setup



4.3.Power Line Conducted Emission Limit

Remark: Decreasing linearly with logarithm of frequency.

The following equipments are installed on RF LINE VOLTAGE test to meet EN 55014-1 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

Model Number: SAD115-2
Manufacturer: Suzhou Langji Technology Co., Ltd.

4.6.Operating Condition of EUT

- 4.6.1. Setup the EUT as shown in Section 4.1.
- 4.6.2. Turn on the power of all equipments.
- 4.6.3. Let the EUT work in test mode (on) and test it.

4.7.Test Procedure

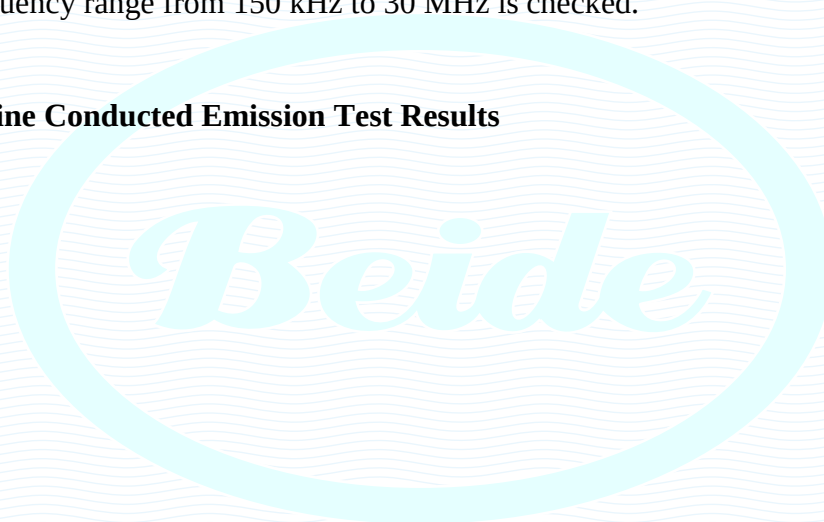
The EUT is put on the ground and connected to the AC mains through a Line Impedance Stabilization Network (L.I.S.N.). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission according to the EN 55014-1 regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCS30) is set at 10 kHz.

The frequency range from 150 kHz to 30 MHz is checked.

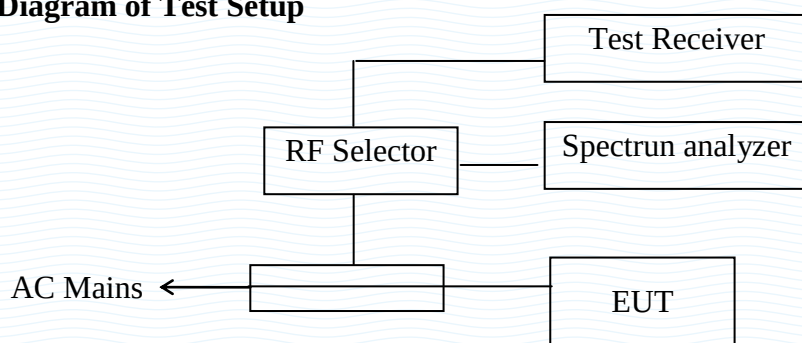
4.8.Power Line Conducted Emission Test Results

PASS.



5.DISTURBANCE POWER TEST

5.1.Block Diagram of Test Setup



5.2.Disturbance Power Test Standard and Limit

5.2.1.Test Standard

EN 55014-1:2017

5.2.2.Test Limit

All emanations from devices or system including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency MHz	Interference Power Limits (dBpW)	
	Quasi-peak Value	Average Value
30 ~ 300	45 Increasing Linearly with Frequency to 55	35 Increasing Linearly with Frequency to 45

5.3.EUT Configuration on Test

The EN 55014-1 regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 4.3.

5.4.Operating Condition of EUT

Same as conducted test which is listed in section 4.4. Except the test set up replaced by section 5.1

5.5. Test Procedure

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(R&S Test Receiver ESS) is set at 120kHz.

All the test results are listed in Section 5.6.

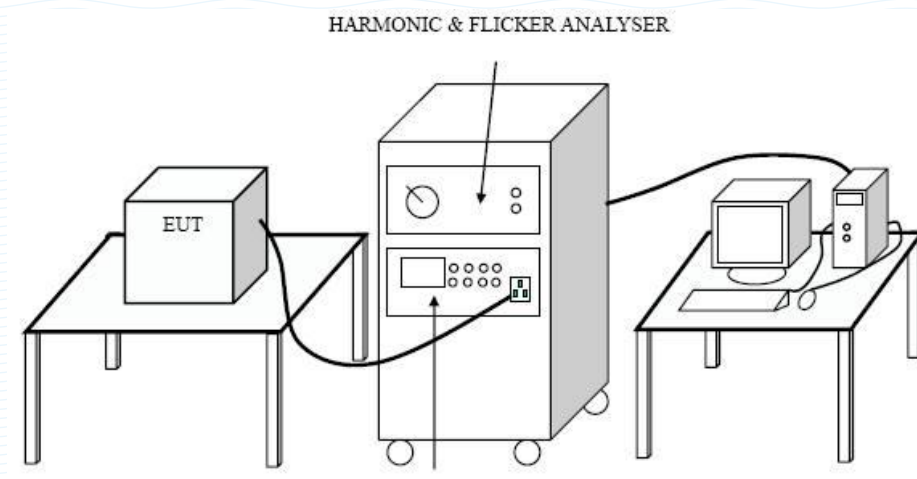
5.6. Test Results

PASS.



6.HARMONIC CURRENT TEST

6.1.Block Diagram of Test Setup



6.2.Test Standard

EN 61000-3-2:2014, Class A

6.3.Operating Condition of EUT

Same as Section 4.4.except the test set up replaced by Section 6.1.

6.4.Test Results

PASS.

7.VOLTAGE FLUCTUATIONS & FLICKER TEST

7.1.Block Diagram of Test Setup

Same as Section 6.1.

7.2.Test Standard

EN 61000-3-3:2013

7.3.Operating Condition of EUT

Same as Section 6.3

7.4.Test Results

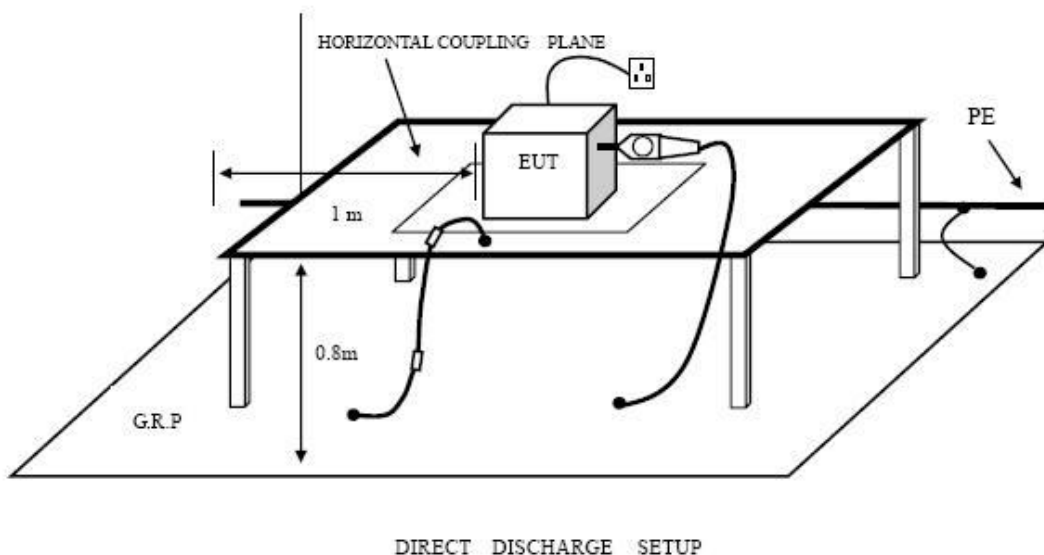
PASS.



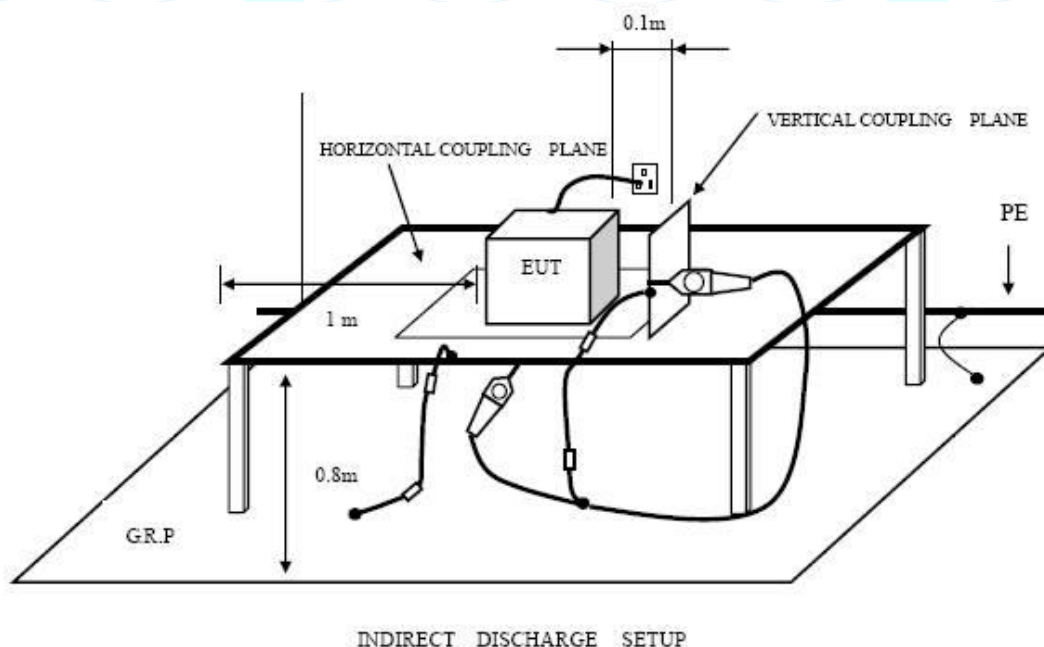
8.ELECTROSTATIC DISCHARGE TEST

8.1.Block Diagram of Test Setup

8.1.1.Block Diagram of ESD Test Setup (Direct Discharge)



8.1.2.Block Diagram of ESD Test Setup (Indirect Discharge)



8.2.Test Standard

EN 55014-2:2015 (EN 61000-4-2:2009)
Severity Level 3 for Air Discharge at 8kV
Severity Level 2 for Contact Discharge at 4kV

8.3. Severity Levels and Performance Criterion

8.3.1. Severity level

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

8.3.2. Performance criterion: **B**

8.4. EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

8.5. Operating Condition of EUT

8.5.1. Setup the EUT as shown in Section 8.1.

8.5.2. Turn on the power of all equipments.

8.5.3. Let the EUT work in test mode (ON) and test it.

8.6. Test Procedure

8.6.1. Air Discharge:

This test is done on non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

8.6.2. Contact Discharge:

All the procedure shall be same as Section 8.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

8.6.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

8.6.4. Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

8.7. Test Results

PASS.

Please refer to the following page.



Electrostatic Discharge Test Results

Beide (Shenzhen) Product Service Limited

Date: Jul.03,2019

Applicant : Suzhou Langji Technology Co., Ltd.	Test Date : Jul.03,2019
EUT : Cabinet Air Conditioner	Temperature : 24°C
M/N : SAD115-2	Humidity : 51%
Power Supply : AC 230V, 50Hz	Test Mode : ON
Test Engineer : Jack	

Air Discharge: $\pm 8\text{kV}$ For each point positive 10 times and negative 10 times discharge.

Contact Discharge: $\pm 4\text{kV}$

Location	Kind A-Air Discharge C-Contact Discharge	Result
Slots 10 points	A	PASS
Surface 10 points	A	PASS
Screw 5 points	C	PASS
HCP 4 points	C	PASS
VCP 4 points	C	PASS

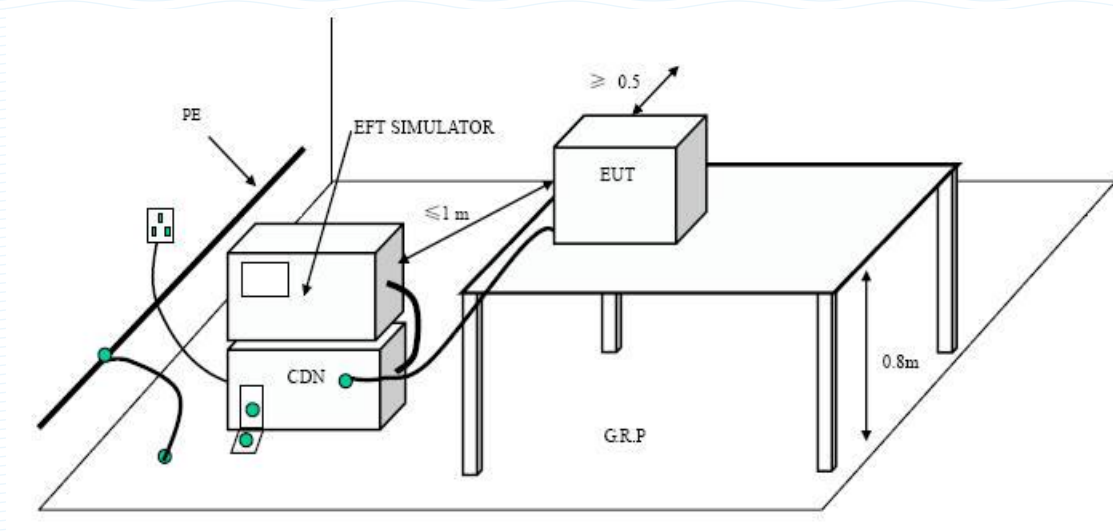
Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

Reviewer:

Austin Zhong

9.ELECTRICAL FAST TRANSIENT/BURST TEST

9.1.Block Diagram of Test Setup



9.2.Test Standard

EN 55014-2:2015 (EN 61000-4-4:2012)
Severity Level 2 at 1kV

9.3.Severity Levels and Performance Criterion

9.3.1.Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 kV	0.25 kV
2.	1 kV	0.5 kV
3.	2 kV	1 kV
4.	4 kV	2 kV
X	Special	Special

9.3.2.Performance criterion: **B**

9.4.EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

9.5.Operating Condition of EUT

- 9.5.1.Setup the EUT as shown in Section 9.1.
- 9.5.2.Turn on the power of all equipments.
- 9.5.3.Let the EUT work in test mode (ON) and test it.

9.6.Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between the EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.6.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

9.6.2.For signal lines and control lines ports:

It's unnecessary to test.

9.6.3.For DC output line ports:

It's unnecessary to test.

9.7.Test Results

PASS.

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

Beide (Shenzhen) Product Service Limited

Date: Jul.03,2019

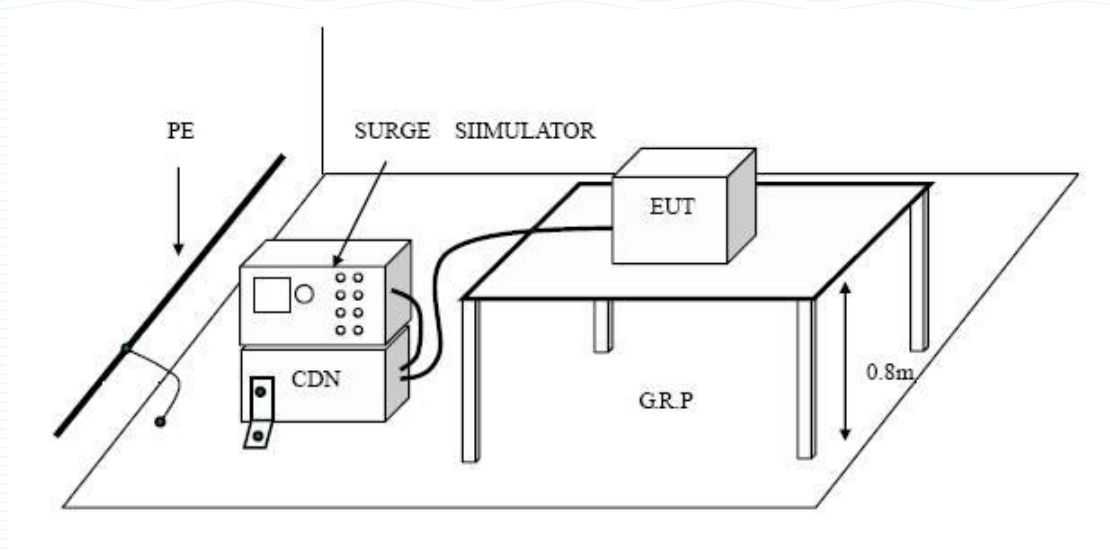
Applicant : <u>Suzhou Langji Technology Co., Ltd.</u> EUT : <u>Cabinet Air Conditioner</u> M/N : <u>SAD115-2</u> Power Supply : <u>AC 230V / 50Hz</u> Test Engineer : <u>Jack</u>					Test Date : <u>Jul.03,2019</u> Temperature : <u>24°C</u> Humidity : <u>49%</u> Test Mode : <u>ON</u>				
Inject Place : AC Mains									
Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results
L	±1	120	Direct	PASS	L+PE	±1	120	Direct	PASS
N	±1	120	Direct	PASS	N+PE	±1	120	Direct	PASS
PE	±1	120	Direct	PASS	L+N+PE	±1	120	Direct	PASS
L-N	±1	120	Direct	PASS					

Reviewer:

Austin Zhang

10.SURGE TEST

10.1.Block Diagram of Test Setup



10.2.Test Standard

EN 55014-2:2015 (EN 61000-4-5:2014)
Severity Level: Line to Line: Level 2, 1kV

10.3.Severity Levels and Performance Criterion

10.3.1.Severity level

Severity Level	Open-Circuit Test Voltage kV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

Performance criterion: **B**

10.4.EUT Configuration on Test

The configurations of EUT are listed in Section 4.4

10.5.Operating Condition of EUT

10.5.1.Setup the EUT as shown in Section 10.1.

10.5.2.Turn on the power of all equipments.

10.5.3.Let the EUT work in test mode (ON) and test it.

10.6.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 10.1.
- 2) For line to line coupling mode, provide a 1.0kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral line to ground are same except test level is 2kV.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.7.Test Results

PASS.

Please refer to the following page.

Surge Immunity Test Results

Beide (Shenzhen) Product Service Limited

Date: Jul.04,2019

Applicant : <u>Suzhou Langji Technology Co., Ltd.</u>					Test Date : <u>Jul.04,2019</u>
EUT : <u>Cabinet Air Conditioner</u>					Temperature : <u>24°C</u>
M/N : <u>SAD115-2</u>					Humidity : <u>49%</u>
Power Supply : <u>AC 230V / 50Hz</u>					Test Mode : <u>ON</u>
Test Engineer : <u>Jack</u>					

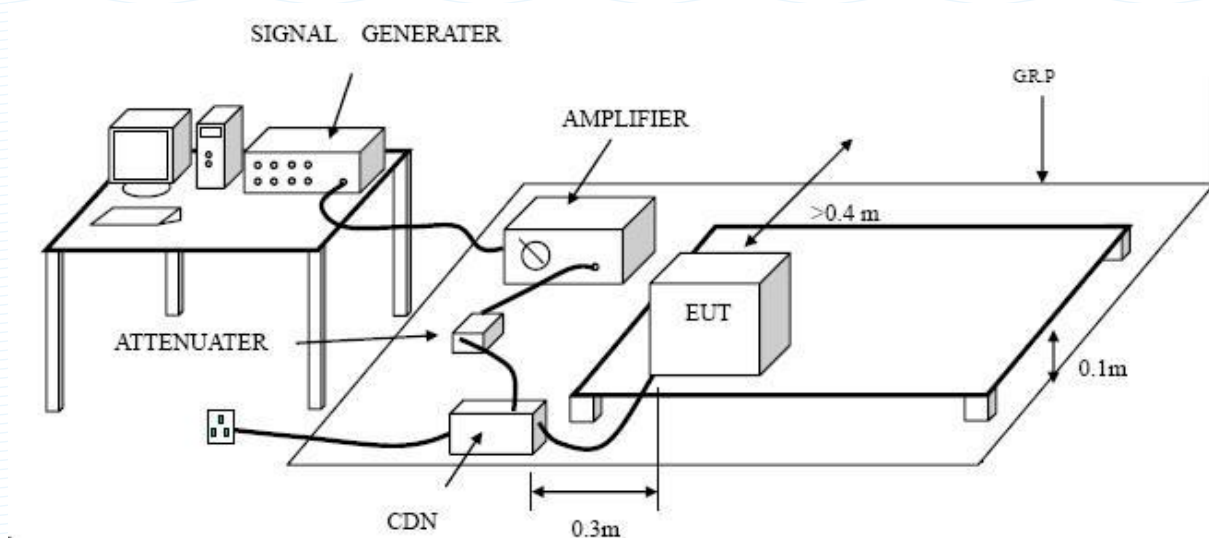
Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (kV)	Result
L-N	±	0	5	1.0	PASS
	±	90	5	1.0	PASS
	±	180	5	1.0	PASS
	±	270	5	1.0	PASS
L-PE	±	0	5	1.0	PASS
	±	90	5	1.0	PASS
	±	180	5	1.0	PASS
	±	270	5	1.0	PASS
N-PE	±	0	5	1.0	PASS
	±	90	5	1.0	PASS
	±	180	5	1.0	PASS
	±	270	5	1.0	PASS

Remark:	
---------	--

Reviewer: Austin.Zhong

11.INJECTED CURRENTS SUSCEPTIBILITY TEST

11.1.Block Diagram of Test Setup



11.2.Test Standard

EN 55014-2:2015 (EN 61000-4-6:2014)
Severity Level 2 at 3V (rms), 0.15MHz ~ 80MHz

11.3.Severity Levels and Performance Criterion

11.3.1.Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

11.3.2.Performance criterion: A

11.4.EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

11.5.Operating Condition of EUT

11.5.1.Setup the EUT as shown in Section 11.1.

11.5.2.Turn on the power of all equipments.

11.5.3.Let the EUT work in test mode (ON) and test it.

11.6.Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 11.1
- 2) Let the EUT work in test mode and test it.
- 3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150kHz to 230MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

11.7.Test Results

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results

Beide (Shenzhen) Product Service Limited

Date: Jul.04,2019

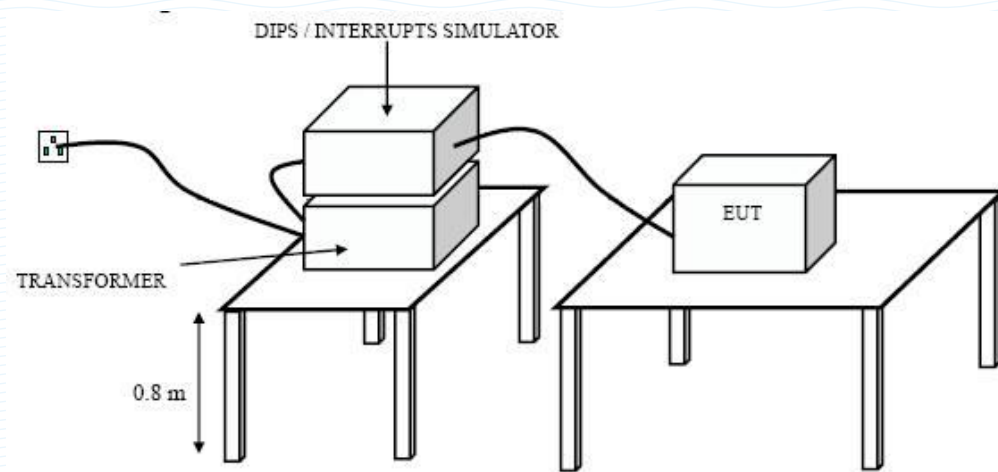
Applicant : <u>Suzhou Langji Technology Co., Ltd.</u>			Test Date : <u>Jul.04,2019</u>	
EUT : <u>Cabinet Air Conditioner</u>			Temperature : <u>24°C</u>	
M/N : <u>SAD115-2</u>			Humidity : <u>49%</u>	
Power Supply : <u>AC 230V / 50Hz</u>				
Test Engineer : <u>Jack</u>				
Test Mode : <u>ON</u>				
Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 ~ 80	AC Line	3V(rms), Unmodulated	A	PASS
Remark : 1. Modulation Signal:1kHz 80% AM 2. Standard Applied : EN 61000-4-6:2014		Note:		

Reviewer:

Austin.zhong

12.VOLTAGE DIPS AND INTERRUPTIONS TEST

12.1.Block Diagram of Test Setup



12.2.Test Standard

EN 55014-2:2015 (EN 61000-4-11:2004)

12.3.Severity Levels and Performance Criterion

12.3.1.Severity level

Test Level $\%U_T$	Voltage dip and short interruptions $\%U_T$	Duration (in period)
0	100	0.5
40	60	10
70	30	50

12.3.2.Performance criterion: C

12.4.EUT Configuration on Test

The configurations of EUT are listed in Section 4.4.

12.5.Operating Condition of EUT

12.5.1.Setup the EUT as shown in Section 12.1.

12.5.2.Turn on the power of all equipments.

12.5.3.Let the EUT work in test mode (ON) and test it.

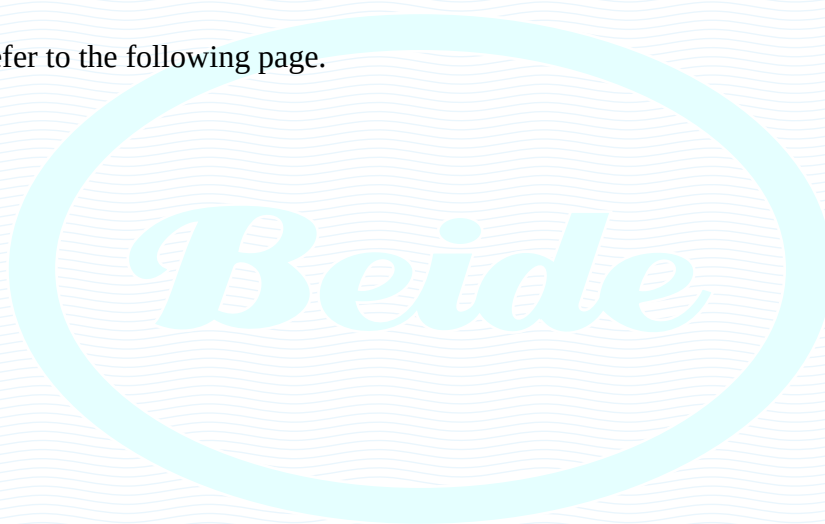
12.6.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 12.1.
- 2) The interruptions are introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

12.7.Test Result

PASS.

Please refer to the following page.



Voltage Dips and Interruptions Test Results

Beide (Shenzhen) Product Service Limited

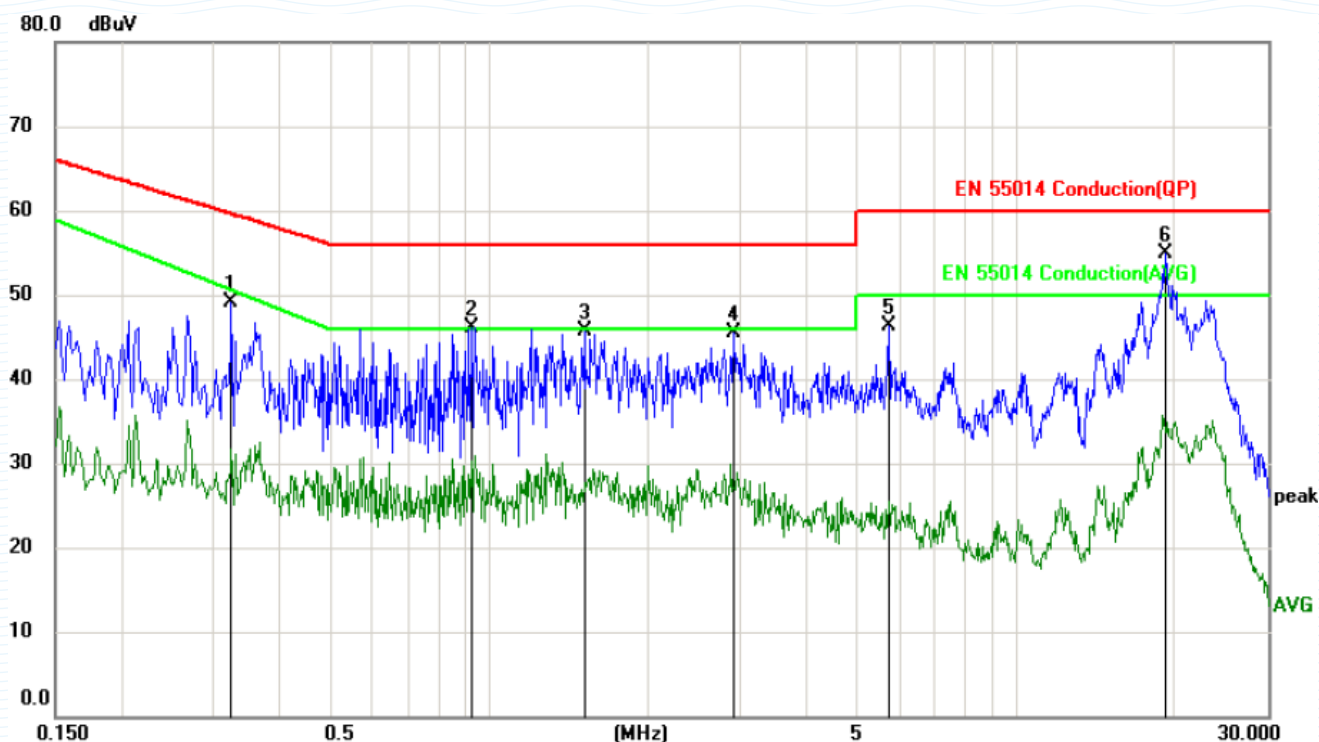
Date: Jul.04,2019

Applicant : <u>Suzhou Langji Technology Co., Ltd.</u> EUT : <u>Cabinet Air Conditioner</u> M/N : <u>SAD115-2</u> Power Supply : <u>AC 230V / 50Hz</u>				Test Date : <u>Jul.04,2019</u> Temperature : <u>24°C</u> Humidity : <u>49%</u> Test Engineer : <u>Jack</u>	
Test Model: <u>ON</u>					
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in period)	Phase Angle	Criterion	Result
0	100	0.5P	0 ~ 360 °	B	PASS
60	40	10P	0 ~ 360 °	B	PASS
30	70	50P	0 ~ 360 °	B	PASS
Remark: U _T is the rated voltage for the equipment.					

Reviewer: Austin Zhong

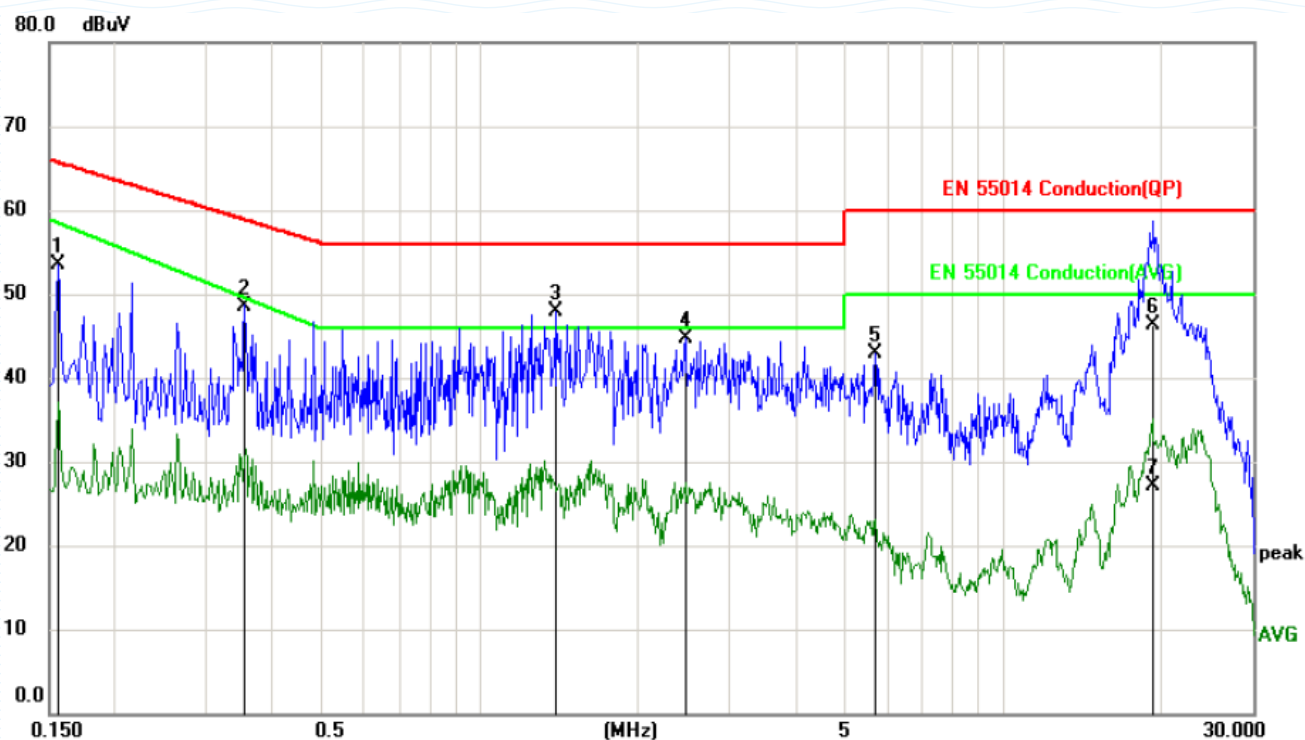
APPENDIX I (TEST DATA)

Job No.:		Power Source:	AC 230V
Standard:	EN 55014	Temp.(°C)/Hum.(%RH)	24°C/47%RH
Test item:	Conducted Test	Date:	2019/07/05
EUT:	Cabinet Air Conditioner	Time:	
Model:	SAD115-2	Test By:	Jack
Note:	L		



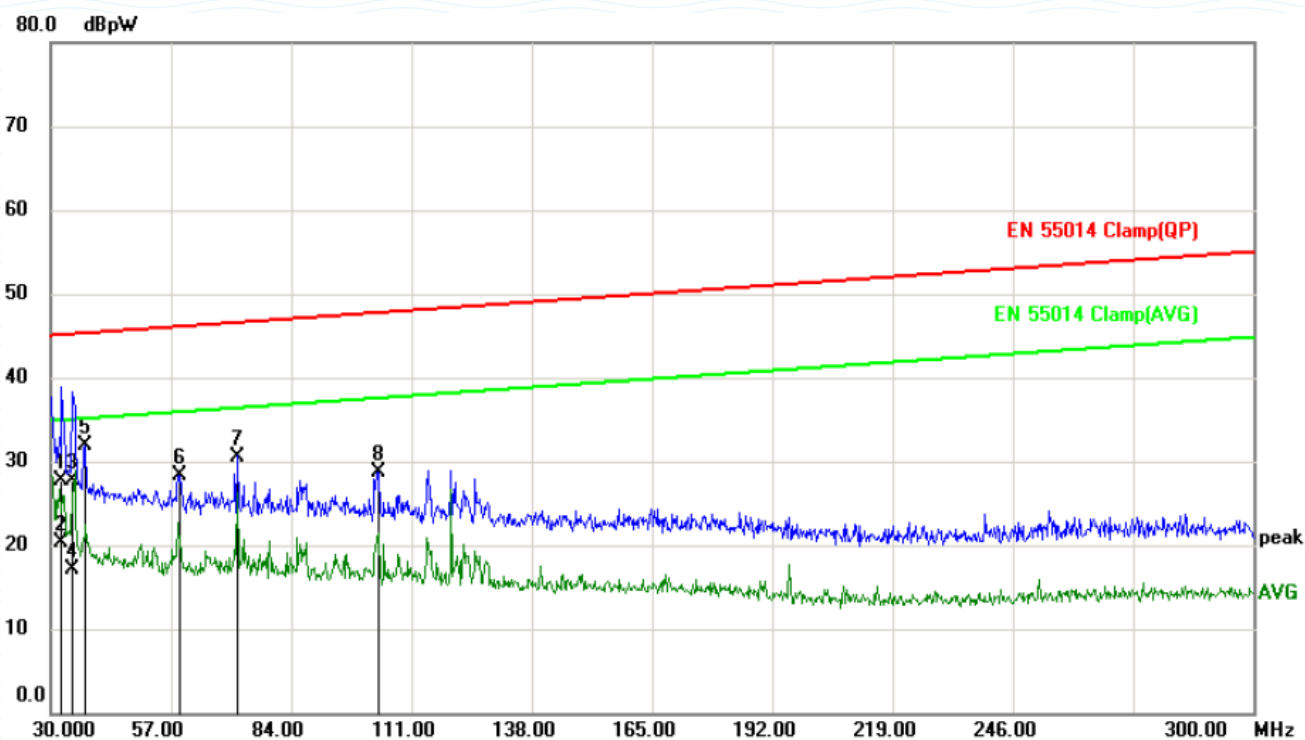
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.3240	39.36	9.70	49.06	59.60	-10.54	peak	
2		0.9270	36.24	9.77	46.01	56.00	-9.99	peak	
3		1.5150	35.82	9.83	45.65	56.00	-10.35	peak	
4		2.9100	35.53	9.98	45.51	56.00	-10.49	peak	
5		5.7360	36.19	10.21	46.40	60.00	-13.60	peak	
6	*	19.2060	44.45	10.45	54.90	60.00	-5.10	peak	

Job No.:		Power Source:	AC 230V
Standard:	EN 55014	Temp.(°C)/Hum.(%RH)	24°C/47%RH
Test item:	Conducted Test	Date:	2019/07/05
EUT:	Cabinet Air Conditioner	Time:	
Model:	SAD115-2	Test By:	Jack
Note:	N		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1560	43.88	9.66	53.54	65.67	-12.13	peak	
2		0.3540	38.90	9.70	48.60	58.87	-10.27	peak	
3	*	1.3920	38.05	9.81	47.86	56.00	-8.14	peak	
4		2.4720	34.80	9.93	44.73	56.00	-11.27	peak	
5		5.6910	32.74	10.21	42.95	60.00	-17.05	peak	
6		19.3950	35.82	10.45	46.27	60.00	-13.73	QP	
7		19.3950	16.66	10.45	27.11	50.00	-22.89	AVG	

Job No.:		Power Source:	AC 230V
Standard:	EN 55014	Temp.(°C)/Hum. (%RH)	24°C/47%RH
Test item:	Disturbance Power Test	Date:	2019/07/05
EUT:	Cabinet Air Conditioner	Time:	
Model:	SAD115-2	Test By:	Jack
Note:	AC Line		



No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Margin dB	Detector	Position cm	Comment
1		32.6400	0.77	26.95	27.72	45.10	-17.38	QP		
2		32.6400	-6.55	26.95	20.40	35.10	-14.70	AVG		
3		35.0400	1.27	26.50	27.77	45.19	-17.42	QP		
4		35.0400	-9.32	26.50	17.18	35.19	-18.01	AVG		
5	*	37.6000	6.09	25.88	31.97	45.28	-13.31	peak		
6		59.0400	5.21	23.18	28.39	46.08	-17.69	peak		
7		72.0000	7.51	23.09	30.60	46.56	-15.96	peak		
8		103.5600	5.93	22.85	28.78	47.72	-18.94	peak		

APPENDIX II **(Photos of the EUT)**

Figure 3
APPEARANCE OF EUT

