



EMC TEST REPORT
For

BEIHAI YAST ELECTRIC APPLIANCE CO., LTD

FLY TRAP

Model No.: F-3

Prepared for : BEIHAI YAST ELECTRIC APPLIANCE CO., LTD
Address : Honkong Road 206, Beihai, Guangxi, China

Prepared by : SHENZHEN EMTEK CO., LTD.
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Report Number : ES110329197E
Date of Test : March 29, 2011 to June 22, 2011
Date of Report : June 23, 2011

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TEST REPORT DESCRIPTION

Applicant : BEIHAI YAST ELECTRIC APPLIANCE CO., LTD
Manufacturer : BEIHAI YAST ELECTRIC APPLIANCE CO., LTD
EUT : FLY TRAP
Model No. : F-3
Power Supply : 230Vac, 50Hz

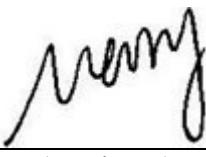
Measurement Procedure Used:

EN 55015:2006+A1:2007+A2:2009
EN 61000-3-2:2006+A1:2009+A2:2009
EN 61000-3-3:2008
EN 61547:2009
(EN 61000-4-2:2009, EN 61000-4-3:2006+A1:2008+A2:2010, EN 61000-4-4:2004+A1:2010,
EN 61000-4-5:2006, EN 61000-4-6:2009, EN 61000-4-8:2010, EN 61000-4-11:2004)

The device described above is tested by SHENZHEN EMTEK CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and SHENZHEN EMTEK CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN 55015, EN 61000-3-2, EN 61000-3-3 and EN 61547 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of SHENZHEN EMTEK CO., LTD.

Date of Test : March 29, 2011 to June 22, 2011

Prepared by : 
(Engineer)

Reviewer : 
(Quality Manager)

Approved & Authorized Signer : 
(Manager)



1. SUMMARY OF TEST RESULT

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted Disturbance at Mains Terminals	EN 55015:2006 +A1:2007+A2:2009	Table 2a	Pass
Magnetic Emission	EN 55015:2006 +A1:2007+A2:2009	Table 3	Pass
Radiated Disturbance	EN 55015:2006 +A1:2007+A2:2009	Table 4	Pass
Harmonic Current Emissions	EN 61000-3-2:2006 +A1:2009+A2:2009	Class C	Pass
Voltage Fluctuation and Flicker	EN 61000-3-3:2008	Section 5	Pass
IMMUNITY			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic Discharge (ESD)	EN 61000-4-2:2009	B	Pass
Radio-Frequency, Continuous Radiated Disturbance	EN 61000-4-3:2006 +A1:2008+A2:2010	A	Pass
EFT/B Immunity	EN 61000-4-4:2004 +A1:2010	B	Pass
Surge Immunity	EN 61000-4-5:2006	B	Pass
Conducted RF Immunity	EN 61000-4-6:2009	A	Pass
Power Frequency Magnetic Field	EN 61000-4-8:2010	A	Pass
Voltage Dips and Interruptions, 100% Reduction	EN 61000-4-11:2004	B	Pass
Voltage Dips and Interruptions, 30% Reduction		C	Pass
Note: N/A is an abbreviation for Not Applicable.			

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : FLY TRAP

Model Number : F-3

Test Voltage : AC 230V/50Hz

Applicant : BEIHAI YAST ELECTRIC APPLIANCE CO., LTD

Address : Honkong Road 206, Beihai, Guangxi, China

Manufacturer : BEIHAI YAST ELECTRIC APPLIANCE CO., LTD

Address : Honkong Road 206, Beihai, Guangxi, China

Date of Received : March 29, 2011

Date of Test : March 29, 2011 to June 22, 2011

2.2. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2010.10.29
The certificate is valid until 2013.10.28
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L2291.
Accredited by TUV Rheinland Shenzhen 2010.5.25
The Laboratory has been assessed according to the requirements ISO/IEC 17025.
Accredited by FCC, October 28, 2010
The Certificate Registration Number is 406365.
Accredited by Industry Canada, March 5, 2010
The Certificate Registration Number is 46405-4480.

Name of Firm : SHENZHEN EMTEK CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

2.3.Measurement Uncertainty

Conducted Emission Uncertainty : 2.8dB

Magnetic Emission Uncertainty : 2.8dB

Radiated Emission Uncertainty : 3.4dB (10m Chamber)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100162	May 29, 2011	1 Year
2.	L.I.S.N.	Rohde & Schwarz	ENV216	101161	May 29, 2011	1 Year
3.	50Ω Coaxial Switch	Anritsu	MP59B	6100214550	N/A	N/A
4.	Voltage Probe	Rohde & Schwarz	TK9416	N/A	May 29, 2011	1 Year
5.	I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	May 29, 2011	1 Year

3.2. For Magnetic Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 29, 2011	1 Year
2.	Loop Antenna	Laplace Instrument Ltd	RF300	8006	May 29, 2011	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 29, 2011	1 Year
4.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	May 29, 2011	1 Year
5.	Coaxial Switch	Anritsu	MP59B	M73989	May 29, 2011	1 Year

3.3. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	101045	May 29, 2011	1 Year
2.	Pre-Amplifier	CDIL	PAP-0203	22013	May 29, 2011	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	143	May 29, 2011	1 Year
4.	Cable	H+B	CBL3-NN-0.5m	100319-2140500-1	May 29, 2011	1 Year
5.	Cable	H+B	CBL3-NN-3m	100319-2143000-1	May 29, 2011	1 Year
6.	Cable	H+B	CBL3-NN-6.5m	100319-2146500-1	May 29, 2011	1 Year
7.	Cable	H+B	CBL3-NN-10.5m	100319-21410500	May 29, 2011	1 Year
8.	Cable	H+B	CBL3-NN-12.5m	100319-21412500	May 29, 2011	1 Year

3.4. For Harmonic Current/Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	AC Power Source	California Instruments	5001iX-CTS-400-413	72795	May 29, 2011	1 Year
2.	PC	N/A	P2L97	N/A	May 29, 2011	N/A

3.5. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	TESEQAG	NSG 437	000409	May 29, 2011	1 Year

3.6. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	RF Power Meter. Dual Channel	BOONTON	4232A	10539	May 29, 2011	1 Year
2.	50ohm Diode Power Sensor	BOONTON	51011EMC	34236/34238	May 29, 2011	1 Year
3.	Broad-Band Horn Antenna	SCHWARZB ECK	BBHA 9120 L3F	332	May 29, 2011	1 Year
4.	Power Amplifier	PRANA	AP32MT215	N/A	May 29, 2011	1 Year
5.	Power Amplifier	MILMEGA	AS0102-55	N/A	May 29, 2011	1 Year
6.	Signal Generator	AEROFLEX	2023B	N/A	May 29, 2011	1 Year
7.	Field Strength Meter	HOLADAY	HI-6005	N/A	May 29, 2011	1 Year
8.	RS232 Fiber Optic Modem	HOLADAY	HI-4413P	N/A	May 29, 2011	1 Year
9.	Log.-Per. Antenna	SCHWARZB ECK	VULP 9118E	N/A	May 29, 2011	1 Year

3.7. For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT4010	080981-16	May 29, 2011	1 Year
2.	Coupling Clamp	HAEFELY	IP-4A	147147	May 29, 2011	1 Year

3.8. For Surge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Controller	HAEFELY	Psurge 8000	174031	May 29, 2011	1 Year
2.	Impulse Module	HAEFELY	PIM 100	174124	May 29, 2011	1 Year
3.	Coupling Decoupling Filter	HAEFELY	PCD 130	172181	May 29, 2011	1 Year
4.	Coupling Module	HAEFELY	PCD122	174354	May 29, 2011	1 Year
5.	Surge Impulse Module	HAEFELY	PIM 120	174435	May 29, 2011	1 Year
6.	Coupling Module	HAEFELY	PCD 126A	174387	May 29, 2011	1 Year
7.	Impulse Module	HAEFELY	PIM 110	174391	May 29, 2011	1 Year

3.9. For Injected Current Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS500C	0900-12	May 29, 2011	1 Year
2.	CDN	EMTEST	CDN-M2	5100100100	May 29, 2011	1 Year
3.	CDN	EMTEST	CDN-M3	0900-11	May 29, 2011	1 Year
4.	Injection Clamp	EMTEST	F-2031-23 MM	368	May 29, 2011	1 Year
5.	Attenuator	EMTEST	ATT6	0010222A	May 29, 2011	1 Year

3.10.For Magnetic Field Immunity Test

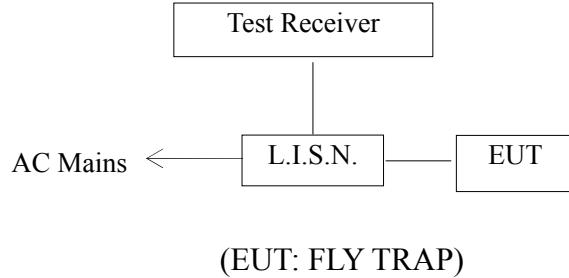
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HAEFELY	MAG100	250040.1	May 29, 2011	1 Year

3.11.For Voltage Dips and Interruptions Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HAEFELY	Pline1610	083732-12	May 29, 2011	1 Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



4.2. Measuring Standard and Limits

4.2.1. Standard: EN 55015:2006+A1:2007+A2:2009

4.2.2. Limits

Frequency	At mains terminals (dB μ V)	
	Quasi-peak Level	Average Level
9kHz ~ 50kHz	110	--
50kHz ~ 150kHz	90 ~ 80*	--
150kHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 2.51MHz	56	46
2.51MHz ~ 3.0MHz	73	63
3.0MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

1. At the transition frequency the lower limit applies.

2. * Decreasing linearly with logarithm of the frequency.

4.3. Operating Condition of EUT

4.3.1. Setup the EUT as shown on Section 4.1.

4.3.2. Turn on the power of all equipments.

4.3.3. Let the EUT work in measuring mode (ON) and measure it.

4.4. Test Procedure

The EUT is put on the table, which is 0.8 meter high above 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 55015 regulations during conducted emission measurement. And the voltage probe had been used for the load terminals measurement according to the EN 55015 standard.

The bandwidth of the test receiver (R&S ESCS30) is set at 200Hz in 9k~150kHz range and 9kHz in 150k~30MHz range.

The frequency range from 9kHz to 30MHz is checked.

All the test results are listed in Section 4.5. The scanning waveform is put in APPENDIX I.

4.5. Measuring Results

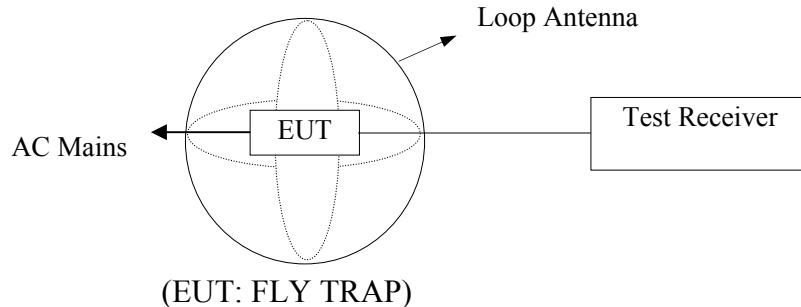
PASS.

The frequency range from 9kHz to 30MHz is investigated.

Please refer to APPENDIX I.

5. MAGNETIC FIELD EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Measuring Standard and Limits

5.2.1. Test Standard

EN 55015:2006+A1:2007+A2:2009

5.2.2. Test Limits

Frequency	Limits for loop diameter (dB μ A)
	2m
9kHz ~ 70kHz	88
70kHz ~ 150kHz	88 ~ 58*
150kHz ~ 2.2MHz	58 ~ 26*
2.2MHz ~ 3.0MHz	58
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. * Decreasing linearly with logarithm of the frequency.

5.3. Operating Condition of EUT

5.3.1. Setup the EUT as shown on Section 5.1.

5.3.2. Turn on the power of all equipments.

5.3.3. Let the EUT work in measuring mode (ON) and measure it.

5.4. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coaxial switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150kHz, the bandwidth of the field strength meter (R&S test receiver ESCS30) is set at 200Hz. For frequency band 150kHz to 30MHz, the bandwidth is set at 9kHz.

All the test results are listed in Section 5.5, and all the scanning waveform is put in Appendix II.

5.5. Measuring Results

PASS.

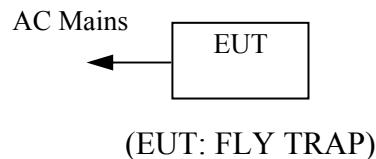
The frequency range from 9kHz to 30MHz is investigated.

Please refer to APPENDIX II.

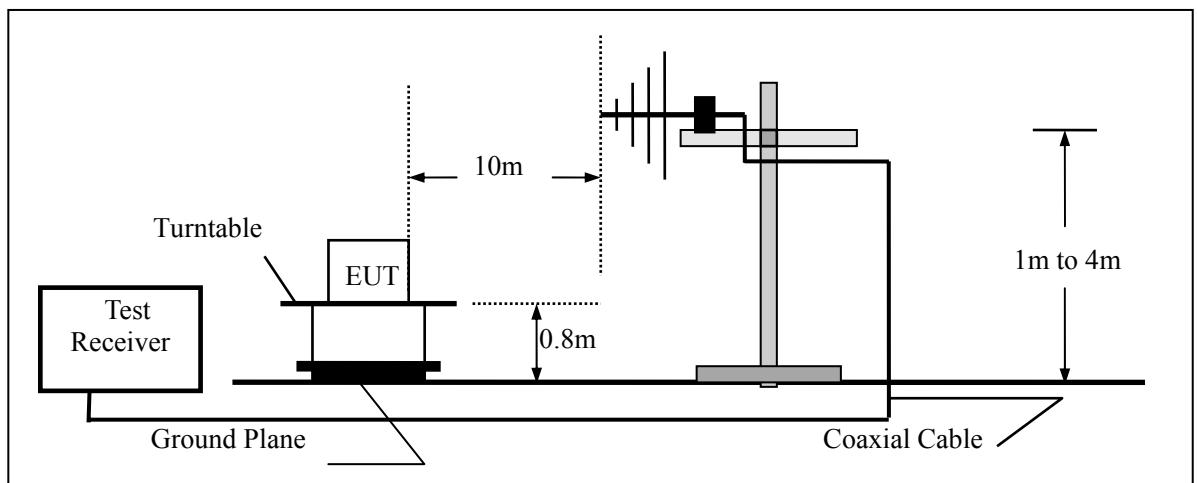
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



6.1.2. Block diagram of test setup (In chamber)



(EUT: FLY TRAP)

6.2. Measuring Standard

EN 55015:2006+A1:2007+A2:2009

6.3. Radiated Emission Limits

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

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dB μ V/m)
30 ~ 230	10	30
230 ~ 300	10	37

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT as shown on Section 6.1.
- 6.4.2. Turn on the power of all equipments.
- 6.4.3. Let the EUT work in measuring mode (ON) and measure it.

6.5. Test Procedure

The EUT is placed on a turntable which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 10 meters away from the receiving antenna that is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.
All the scanning curves are attached in Appendix III.

6.6. Measuring Results

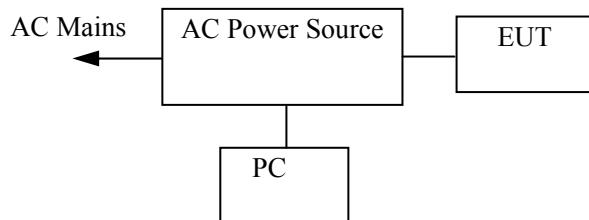
PASS.

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

Please refer to Appendix III.

7. HARMONIC CURRENT EMISSION MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: FLY TRAP)

7.2. Measuring Standard

EN 61000-3-2:2006+A1:2009+A2:2009 CLASS C

7.3. Operation Condition of EUT

- 7.3.1. Setup the EUT as shown on Section 7.1.
- 7.3.2. Turn on the power of all equipments.
- 7.3.3. Let the EUT work in measuring mode (ON) and measure it.

7.4. Measuring Results

PASS.

Please refer to the following page

Harmonics – Class-C per Ed. 3.2 (2009)(Run time) incl. inter-harmonics

EUT: FLY TRAP (F-3)

Test category: Class-C per Ed. 3.2 (2009) (European limits)

Tested by: RJB

Test date: 2011-3-31

Start time: 13:30:22

Test Margin: 100

Test duration (min): 2.5

Data file name: H-000314.cts_data

End time: 13:33:13

Comment: ON

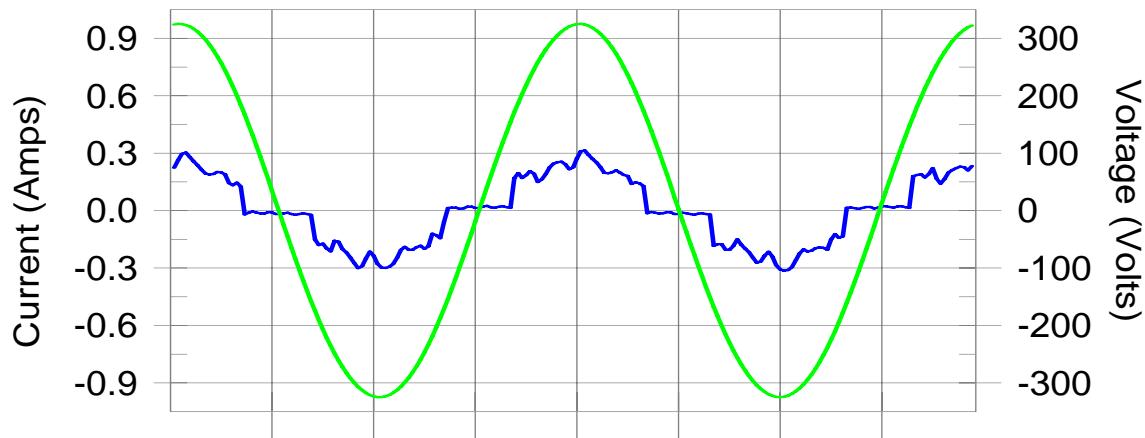
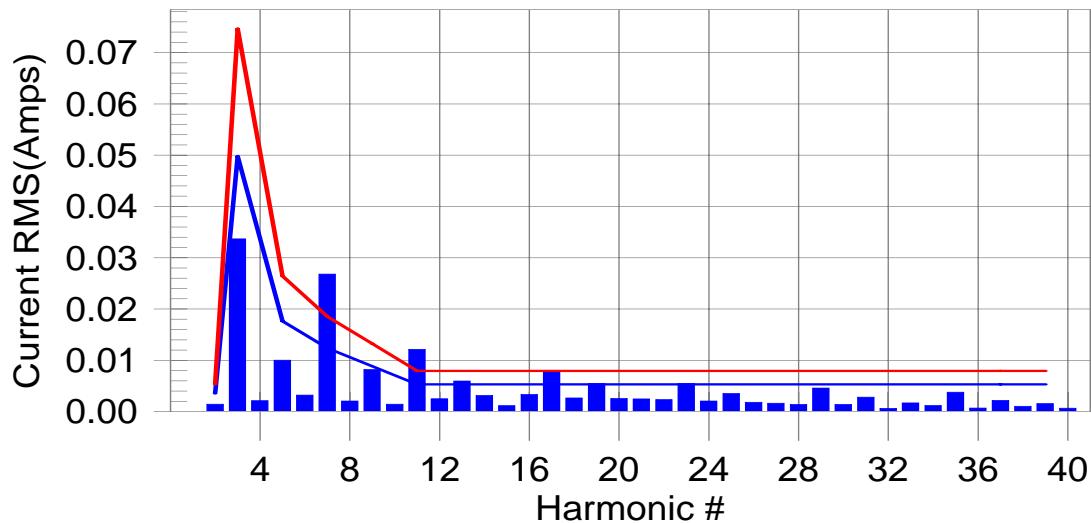
Customer: Yast

Test Result: Pass

Source qualification: Normal

Current & voltage waveforms

-

**Harmonics and Class C limit line****European Limits**

Test result: Fail

Worst harmonic was #11 with 236.18% of the limit.

Current Test Result Summary (Run time)

EUT: FLY TRAP (F-3) Tested by: RJB
 Test category: Class-C per Ed. 3.2 (2009) (European limits) Test Margin: 100
 Test date: 2011-3-31 Start time: 13:30:22 End time: 13:33:13
 Test duration (min): 2.5 Data file name: H-000314.cts_data
 Comment: ON
 Customer: Yast

Test Result: Pass Source qualification: Normal
 THC(A): 0.05 I-THD(%): 29.10 POHC(A): 0.006 POHC Limit(A): 0.017
Highest parameter values during test:

V_RMS (Volts): 229.95	Frequency(Hz): 50.00
I_Peak (Amps): 0.837	I_RMS (Amps): 0.184
I_Fund (Amps): 0.176	Crest Factor: 4.625
Power (Watts): 39.3	Power Factor: 0.941

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	0.004	0.0	0.001	0.005	0.00	Pass
3	0.035	0.050	0.0	0.034	0.075	0.00	Pass
4	0.002						
5	0.011	0.018	0.0	0.010	0.026	0.00	Pass
6	0.003						
7	0.027	0.012	0.0	0.027	0.019	0.00	Pass
8	0.002						
9	0.008	0.009	0.0	0.008	0.013	0.00	Pass
10	0.001						
11	0.012	0.005	0.0	0.012	0.008	0.00	Pass
12	0.002						
13	0.006	0.005	0.0	0.006	0.008	0.00	Pass
14	0.003						
15	0.002	0.005	0.0	0.001	0.008	0.00	Pass
16	0.003						
17	0.008	0.005	0.0	0.008	0.008	0.00	Pass
18	0.003						
19	0.006	0.005	0.0	0.005	0.008	0.00	Pass
20	0.003						
21	0.003	0.005	0.0	0.002	0.008	0.00	Pass
22	0.002						
23	0.006	0.005	0.0	0.005	0.008	0.00	Pass
24	0.002						
25	0.004	0.005	0.0	0.004	0.008	0.00	Pass
26	0.002						
27	0.002	0.005	0.0	0.002	0.008	0.00	Pass
28	0.001						
29	0.005	0.005	0.0	0.005	0.008	0.00	Pass
30	0.001						
31	0.003	0.005	0.0	0.003	0.008	0.00	Pass
32	0.001						
33	0.002	0.005	0.0	0.002	0.008	0.00	Pass
34	0.001						
35	0.004	0.005	0.0	0.004	0.008	0.00	Pass
36	0.001						
37	0.002	0.005	0.0	0.002	0.008	0.00	Pass
38	0.001						
39	0.002	0.005	0.0	0.002	0.008	0.00	Pass
40	0.001						

Note: Measured I(f) & PF limits were applied for this test. The rated I(f)(RMS) is 1.000 Amps & the rated PF is 1.000.

Voltage Source Verification Data (Run time)

EUT: FLY TRAP (F-3) **Tested by: RJB**
Test category: Class-C per Ed. 3.2 (2009) (European limits) **Test Margin: 100**
Test date: 2011-3-31 **Start time: 13:30:22** **End time: 13:33:13**
Test duration (min): 2.5 **Data file name: H-000314.cts_data**
Comment: ON
Customer: Yast

Test Result: Pass **Source qualification: Normal**

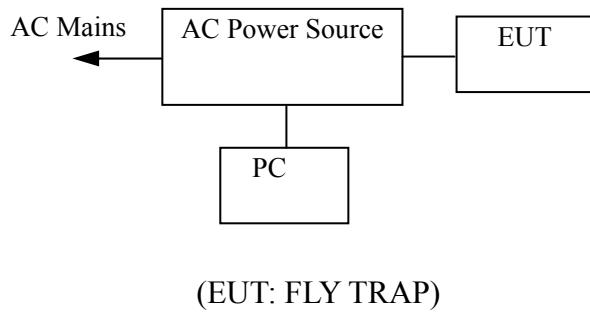
Highest parameter values during test:

Voltage (Vrms): 229.95	Frequency(Hz): 50.00
I_Peak (Amps): 0.837	I_RMS (Amps): 0.184
I_Fund (Amps): 0.176	Crest Factor: 4.625
Power (Watts): 39.3	Power Factor: 0.941

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.071	0.460	15.48	OK
3	0.662	2.069	31.97	OK
4	0.052	0.460	11.38	OK
5	0.081	0.920	8.81	OK
6	0.029	0.460	6.21	OK
7	0.026	0.690	3.79	OK
8	0.016	0.460	3.51	OK
9	0.044	0.460	9.61	OK
10	0.012	0.460	2.60	OK
11	0.016	0.230	6.91	OK
12	0.013	0.230	5.71	OK
13	0.013	0.230	5.61	OK
14	0.006	0.230	2.70	OK
15	0.016	0.230	6.77	OK
16	0.009	0.230	3.96	OK
17	0.010	0.230	4.31	OK
18	0.011	0.230	4.82	OK
19	0.010	0.230	4.55	OK
20	0.015	0.230	6.69	OK
21	0.009	0.230	4.13	OK
22	0.005	0.230	2.05	OK
23	0.007	0.230	2.92	OK
24	0.005	0.230	2.16	OK
25	0.008	0.230	3.31	OK
26	0.003	0.230	1.44	OK
27	0.007	0.230	2.94	OK
28	0.004	0.230	1.66	OK
29	0.007	0.230	3.06	OK
30	0.005	0.230	1.97	OK
31	0.007	0.230	2.84	OK
32	0.005	0.230	2.16	OK
33	0.006	0.230	2.73	OK
34	0.004	0.230	1.59	OK
35	0.005	0.230	2.37	OK
36	0.005	0.230	2.18	OK
37	0.007	0.230	3.00	OK
38	0.004	0.230	1.66	OK
39	0.006	0.230	2.69	OK
40	0.007	0.230	3.03	OK

8. VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Measuring Standard

EN 61000-3-3:2008

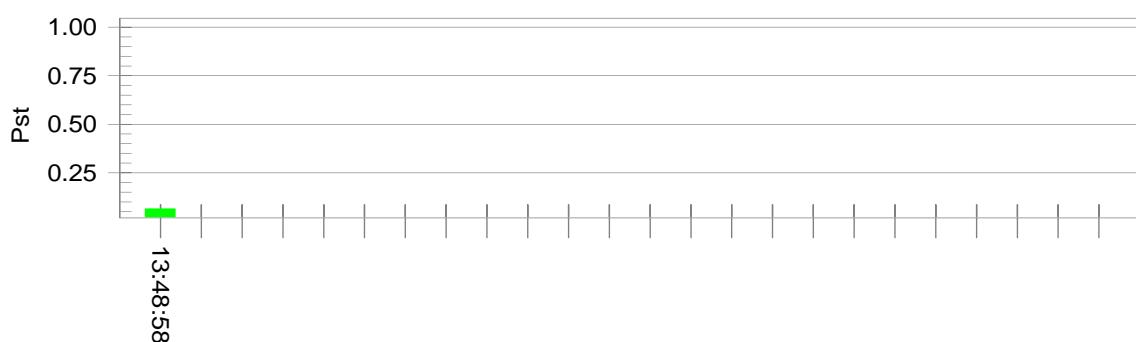
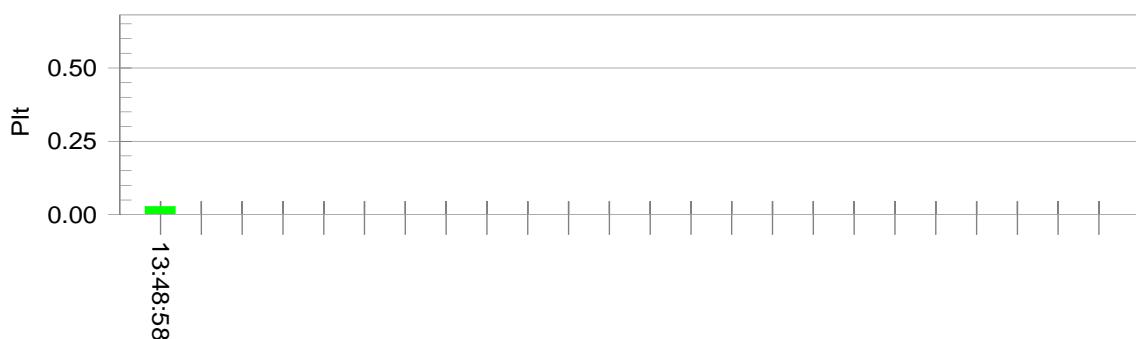
8.3. Operation Condition of EUT

- 8.3.1. Setup the EUT as shown on Section 8.1.
- 8.3.2. Turn on the power of all equipments.
- 8.3.3. Let the EUT work in measuring mode (ON) and measure it.

8.4. Measuring Results

PASS.

Please refer to the following page.

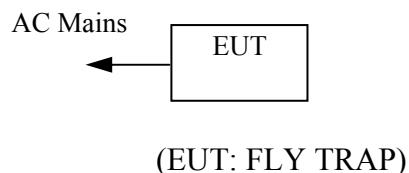
Flicker Test Summary per EN/IEC61000-3-3 (Run time)**EUT: FLY TRAP (F-3)****Test category: All parameters (European limits)****Tested by: RJB****Test Margin: 100****Test date: 2011-3-31****Start time: 13:38:38****End time: 13:48:59****Test duration (min): 10****Data file name: F-000316.cts_data****Comment: ON****Customer: Yast****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): 229.84**

Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.028	Test limit:	0.650	Pass

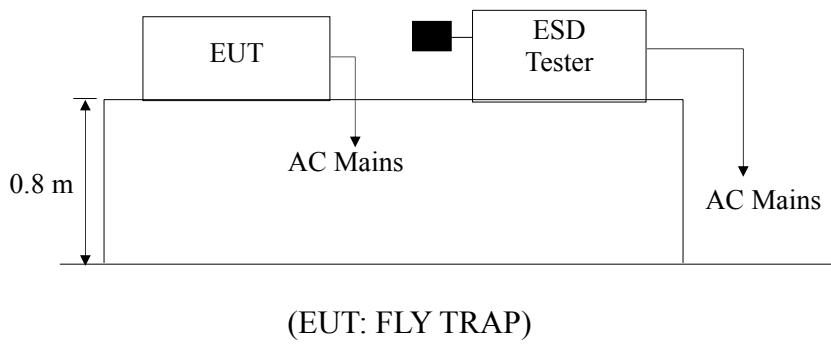
9. ELECTROSTATIC DISCHARGE IMMUNITY TEST

9.1. Block Diagram of Test Setup

9.1.1. Block diagram of connection between the EUT and simulators



9.1.2. Block diagram of ESD test setup



9.2. Test Standard

EN 61547:2009

(EN 61000-4-2:2009 Severity Level: 3 / Air Discharge: $\pm 8\text{kV}$
Level: 2 / Contact Discharge: $\pm 4\text{kV}$)

9.3. Severity Levels and Performance Criterion

9.3.1. 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

9.3.2. Performance criterion: B

9.4. Operating Condition of EUT

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

9.5. Test Procedure

9.5.1. Air Discharge:

This test is done on a non-conductive surface. 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.

9.5.2. Contact Discharge:

All the procedure shall be same as Section 9.5.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.5.3. Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

9.5.4. Indirect discharge for vertical coupling plane

At least 10 singles discharge (in the most sensitive polarity) 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.

9.6. Test Results

PASS.

Please refer to the following page.

Electrostatic Discharge Test Result

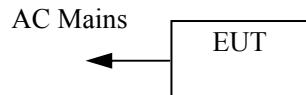
SHENZHEN EMTEK CO., LTD.

Applicant	BEIHAI YAST ELECTRIC APPLIANCE CO., LTD		
EUT	FLY TRAP	Test Date	June 2, 2011
M/N	F-3	Temperature	22°C
Power Supply	AC 230V/50Hz	Humidity	50%
Air discharge	± 8.0kV	Test Mode	ON
Contact discharge:	± 4.0kV	Criterion	B
Location	Kind A-Air Discharge C-Contact Discharge	Result	
HCP	C	PASS	
VCP of front	C	PASS	
VCP of rear	C	PASS	
VCP of left	C	PASS	
VCP of right	C	PASS	
Slot	A	PASS	
Button	A	PASS	
Screw	C	PASS	
Metal	C	PASS	
Note:			

10. RF FIELD STRENGTH SUSCEPTIBILITY TEST

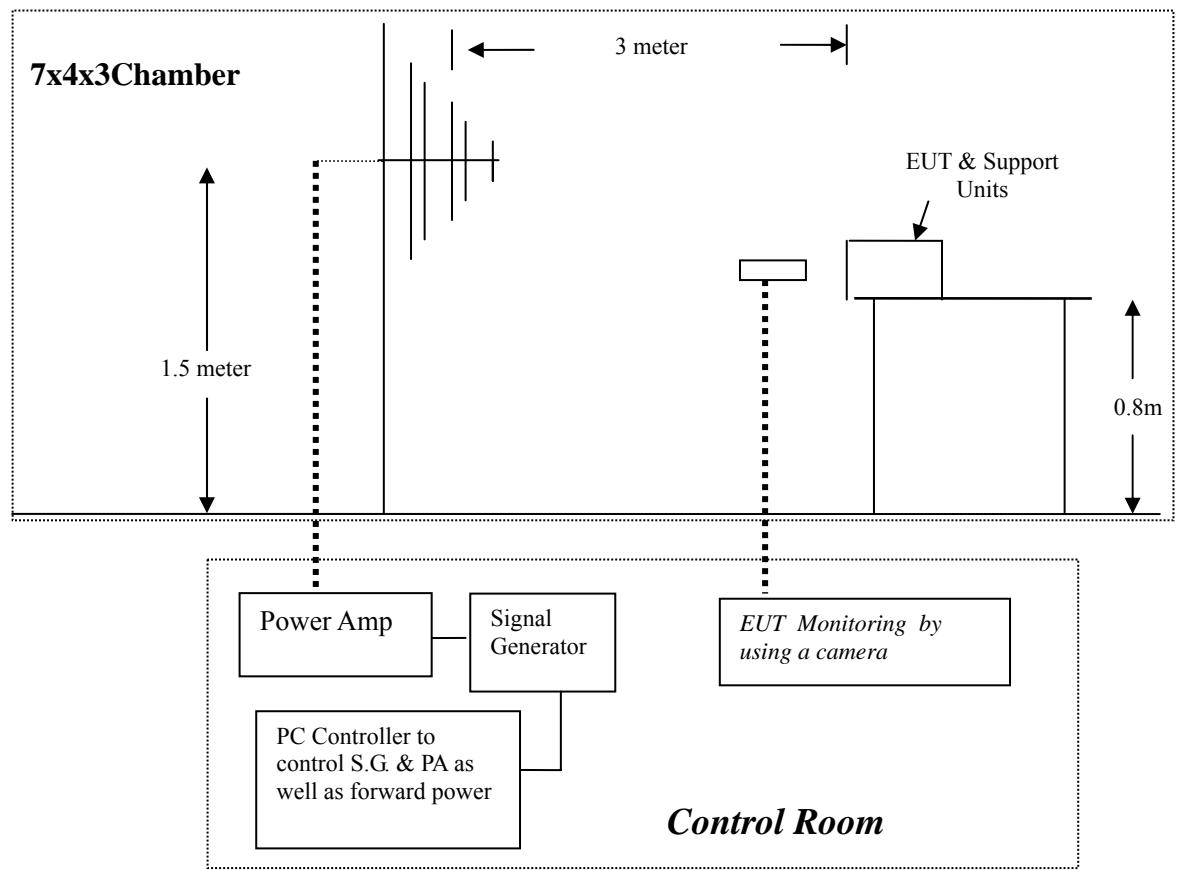
10.1. Block Diagram of Test Setup

10.1.1. Block diagram of connection between the EUT and simulators



(EUT: FLY TRAP)

10.1.2. Block diagram of RS test setup



(EUT: FLY TRAP)

10.2. Test Standard

EN 61547:2009 (EN 61000-4-3:2006+A1:2008+A2:2010, Severity Level: 2, 3V/m)

10.3. Severity Levels and Performance Criterion

10.3.1. Severity Levels

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

10.3.2. Performance Criterion: A

10.4. Operating Condition of EUT

10.4.1. Setup the EUT as shown on Section 10.1.

10.4.2. Turn on the power of all equipments.

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

10.5. Test Procedure

The EUT are placed on a table that is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna that is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a multimeter is used to monitor its output.

All the scanning conditions are as following:

Condition of Test	Remark
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80-1000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

10.6. Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

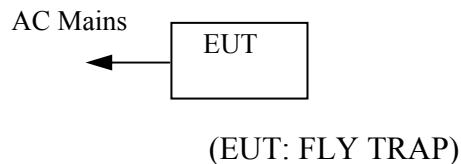
SHENZHEN EMTEK CO., LTD.

Applicant	: BEIHAI YAST ELECTRIC APPLIANCE CO., LTD			
EUT	: FLY TRAP			
M/N	: F-3			
Field Strength	: 3 V/m			
Power Supply	: AC 230V/50Hz			
Test Mode	: ON			
Modulation:	<input type="checkbox"/> None		<input type="checkbox"/> Pulse	<input checked="" type="checkbox"/> AM 1kHz 80%
	Frequency Rang 1: 80~ 1000MHz		Frequency Rang 2: N/A	
Steps	1%			
	Horizontal	Vertical	Horizontal	Vertical
Front	PASS	PASS		
Right	PASS	PASS		
Rear	PASS	PASS		
Left	PASS	PASS		
Test Equipment:				
1. Signal Generator: 2023B (AEROFLEX)				
2. Power Amplifier: AS0102-55 (MILMEGA) & AP32MT215 (PRANA)				
3. Log.-Per.Antenna: VULP9118E (SCHWARZBECK)				
4. Broad-Band Horn Antenna: BBHA 9120L3F (SCHWARZBECK)				
5. RF Power Meter. Dual Channel: 4232A (BOONTON)				
6. Field Strength Meter: HI-6005 (HOLADAY)				
Note:				

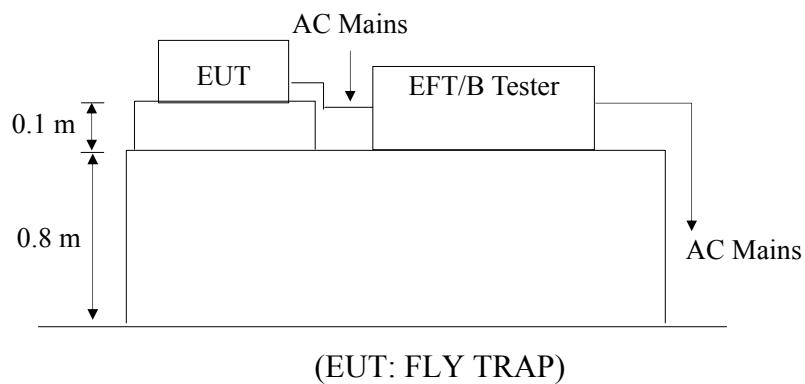
11.ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

11.1.Block Diagram of Test Setup

11.1.1.Block Diagram of the EUT



11.1.2.EFT Test Setup



11.2.Test Standard

EN 61547:2009 (EN 61000-4-4:2004+A1:2010, Severity Level: 2, 1kV)

11.3.Severity Levels and Performance Criterion

11.3.1.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

11.3.2.Performance criterion: B

11.4.Operating Condition of EUT

- 11.4.1.Setup the EUT as shown on Section 11.1.
- 11.4.2.Turn on the power of all equipments.
- 11.4.3.Let the EUT work in test mode (ON) and test it.

11.5.Test Procedure

The EUT is put on the table that 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 EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

- 11.5.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device that 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.

- 11.5.2.For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

- 11.5.3.For DC output line ports:

It's unnecessary to test.

11.6.Test Results

PASS.

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

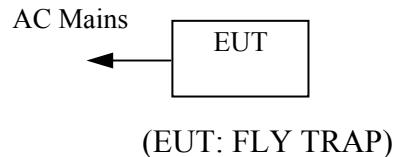
SHENZHEN EMTEK CO., LTD.

Standard: <input checked="" type="checkbox"/> EN 61000-4-4	Result: <input checked="" type="checkbox"/> PASS / <input type="checkbox"/> FAIL		
<p>Applicant : <u>BEIHAI YAST ELECTRIC APPLIANCE CO., LTD</u></p> <p>EUT : <u>FLY TRAP</u></p> <p>M/N : <u>F-3</u></p> <p>Input Voltage: <u>AC 230V</u> <u>50Hz</u></p> <p>Criterion : B</p> <p>Ambient Condition : <u>22 °C</u> <u>50% RH</u></p>			
Operation Mode: ON			
Line : <input checked="" type="checkbox"/> AC Mains	Line : <input type="checkbox"/> Signal <input type="checkbox"/> I/O Cable		
Coupling : <input checked="" type="checkbox"/> Direct	Coupling : <input type="checkbox"/> Capacitive		
Test Time : 120s			
Line	Test Voltage	Result(+)	Result(-)
L	1kV	PASS	PASS
N	1kV	PASS	PASS
PE			
L、N	1kV	PASS	PASS
L、PE			
N、PE			
L、N、PE			
Signal Line			
DC Line			
Note:			

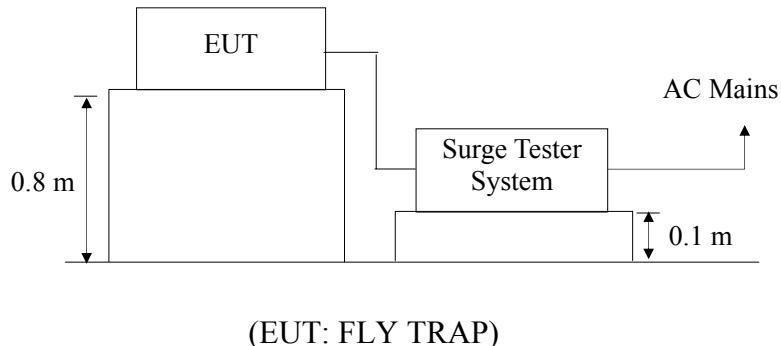
12.SURGE IMMUNITY TEST

12.1.Block Diagram of Test Setup

12.1.1.Block Diagram of the EUT



12.1.2.Surge Test Setup



12.2.Test Standard

EN 61547:2009

(EN 61000-4-5:2006, Severity Level: Line to Line: Level 2, 1kV)

12.3.Severity Levels and Performance Criterion

12.3.1.Severity level

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

12.3.2.Performance criterion: B

12.4.Operating Condition of EUT

- 12.4.1.Setup the EUT as shown on Section 12.1.
- 12.4.2.Turn on the power of all equipments.
- 12.4.3.Let the EUT work in test mode (ON) and test it.

12.5.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 12.1.2.
- 2) For line to line coupling mode, provide a 1.0 kV 1.2/50us voltage surge
(At open-circuit condition) and 8/20us current surge to EUT selected points.
- 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.

12.6.Test Results

PASS.

Please refer to the following page.

Surge Immunity Test Result

SHENZHEN EMTEK CO., LTD.

Applicant : BEIHAI YAST ELECTRIC APPLIANCE CO., LTD

EUT : **FLY TRAP**

Test Date : June 2, 2011

M/N : F-3

Temperature : 22°C

Power Supply : AC 230V/50Hz

Humidity : 50%

Test Mode : **ON**

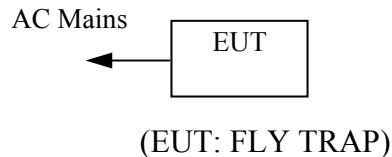
Criterion : B

Remark:

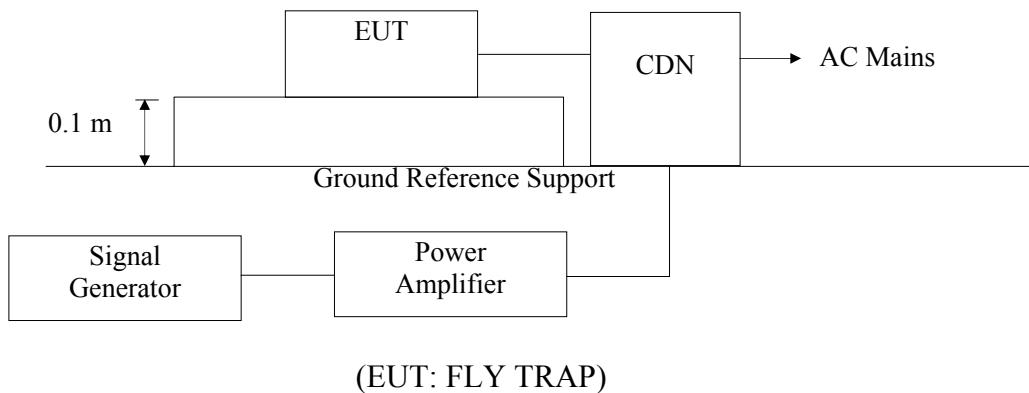
13. INJECTED CURRENTS SUSCEPTIBILITY TEST

13.1. Block Diagram of Test Setup

13.1.1. Block Diagram of the EUT



13.1.2. Block Diagram of Test Setup



13.2. Test Standard

EN 61547:2009

(EN 61000-4-6:2009, Severity Level: Level 2, 3V (r.m.s.), 0.15MHz ~ 80MHz)

13.3. Severity Levels and Performance Criterion

13.3.1. Severity level

Level	Field Strength V
1	1
2	3
3	10
X	Special

13.3.2. Performance criterion: A

13.4.Operating Condition of EUT

- 13.4.1.Setup the EUT as shown on Section 13.1.
- 13.4.2.Turn on the power of all equipments.
- 13.4.3.Let the EUT work in test mode (ON) and test it.

13.5.Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 13.1.2.
- 2) Let the EUT work in test mode and measure 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 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz 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.

13.6.Test Results

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results

SHENZHEN EMTEK CO., LTD.

Applicant : BEIHAI YAST ELECTRIC APPLIANCE CO., LTDEUT : FLY TRAPTest Date: June 2, 2011M/N : F-3Temperature : 22°CPower Supply : AC 230V / 50HzHumidity : 55%Test Engineer : ANDYTest Mode: ON

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Mains	3V	A	PASS

Test Mode : N/A

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result

Remark : 1. Modulation Signal: 1kHz 80% AM

Measurement Equipment :

Simulator: CWS 500 (SWITZERLAND EMTEST)

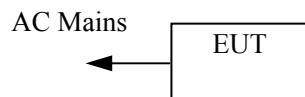
CDN : CDN-M2 (SWITZERLAND EMTEST)
 CDN-M3 (SWITZERLAND EMTEST)

Note:

14.MAGNETIC FIELD SUSCEPTIBILITY TEST

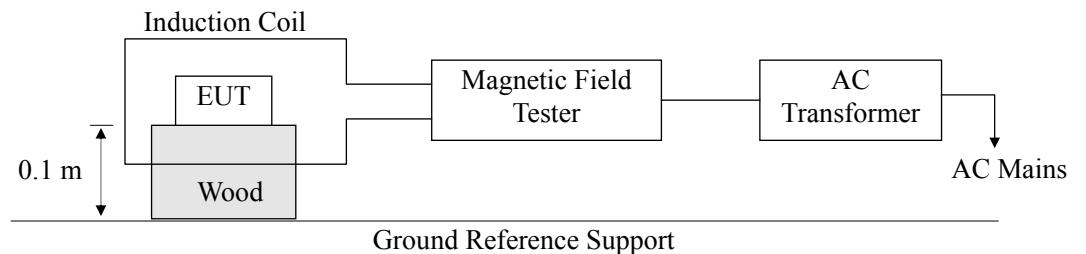
14.1.Block Diagram of Test Setup

14.1.1.Block Diagram of the EUT



(EUT: FLY TRAP)

14.1.2.Magnetic field test setup



(EUT: FLY TRAP)

14.2.Test Standard

EN 61547:2009

(EN 61000-4-8:2010, Severity Level: Level 2, 3A/m)

14.3.Severity Levels and Performance Criterion

14.3.1.Severity Levels

Level	Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X	Special

14.3.2.Performance Criterion: A

14.4.Operating Condition of EUT

- 14.4.1.Setup the EUT as shown on Section 14.1.
- 14.4.2.Turn on the power of all equipments.
- 14.4.3.Let the EUT work in test mode (ON) and test it.

14.5.Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

14.6.Test Results

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

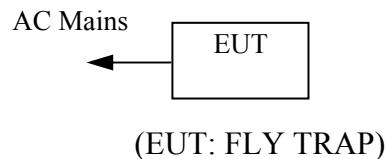
SHENZHEN EMTEK CO., LTD.

Standard: <input checked="" type="checkbox"/> EN 61000-4-8	Result: <input checked="" type="checkbox"/> PASS / <input type="checkbox"/> FAIL			
<p>Applicant : <u>BEIHAI YAST ELECTRIC APPLIANCE CO., LTD</u></p> <p>EUT : <u>FLY TRAP</u></p> <p>M/N : <u>F-3</u></p> <p>Input Voltage : <u>AC230V/50Hz</u></p> <p>Date of Test : <u>June 2, 2011</u> Test Engineer: <u>ANDY</u></p> <p>Ambient Condition : Temp : <u>22°C</u> Humid: <u>50%</u></p> <p>Criterion: A</p>				
Operation Mode: <u>ON</u>				
Test Level (A/m)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS
Operation Mode: N/A				
Test Level (A/m)	Testing Duration	Coil Orientation	Criterion	Result
Test Equipment	Magnetic Field Test: HEAFELY MAG 100.1			
Note:				

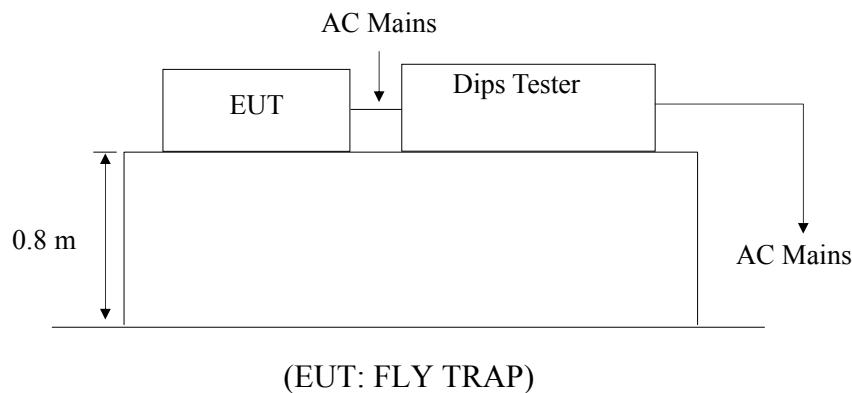
15. VOLTAGE DIPS AND INTERRUPTIONS TEST

15.1. Block Diagram of Test Setup

15.1.1. Block Diagram of the EUT



15.1.2. Dips Test Setup



15.2. Test Standard

EN 61547:2009 (EN 61000-4-11:2004)

15.3. Severity Levels and Performance Criterion

15.3.1. Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	0.5
70	30	10

15.3.2. Performance criterion: B&C

15.4.Operating Condition of EUT

- 15.4.1.Setup the EUT as shown on Section 15.1.
- 15.4.2.Turn on the power of all equipments.
- 15.4.3.Let the EUT work in test mode (ON) and test it.

15.5.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 15.1.2.
- 2) The interruption is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

15.6.Test Results

PASS.

Please refer to the following page.

Voltage Dips and Interruptions Test Results

SHENZHEN EMTEK CO., LTD.

Applicant : BEIHAI YAST ELECTRIC APPLIANCE CO., LTDEUT : FLY TRAPTest Date : June 2, 2011M/N : F-3Temperature : 22°CPower Supply : AC 230V/50HzHumidity : 50%Test Mode: ON

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D	Result P=PASS F=FAIL
0	100	0.5P	B	PASS
70	30	10P	C	PASS

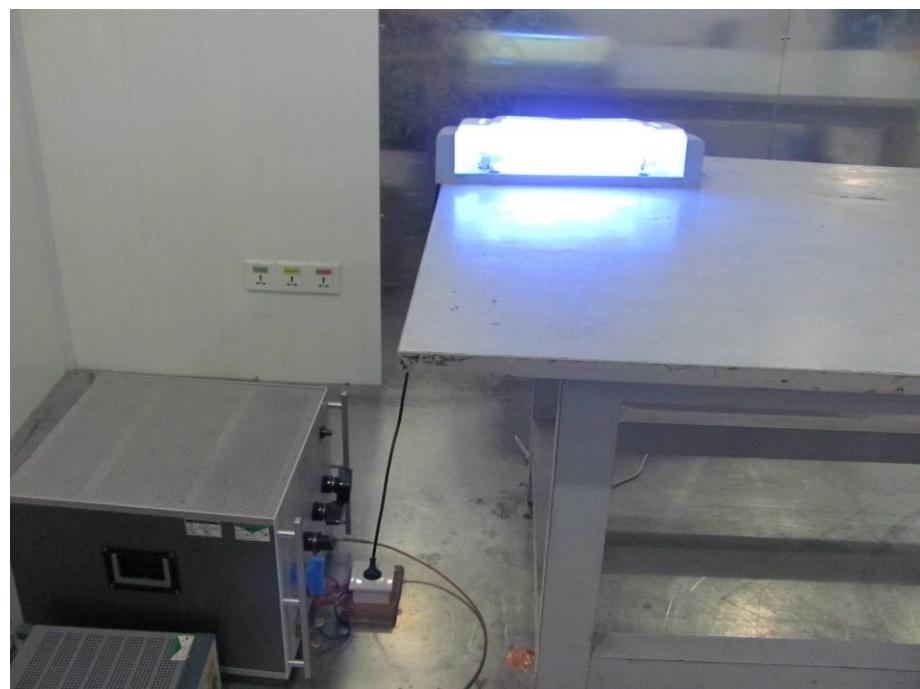
Test Mode : N/A

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	Result P=PASS F=FAIL

Note:

16.PHOTOGRAPHS

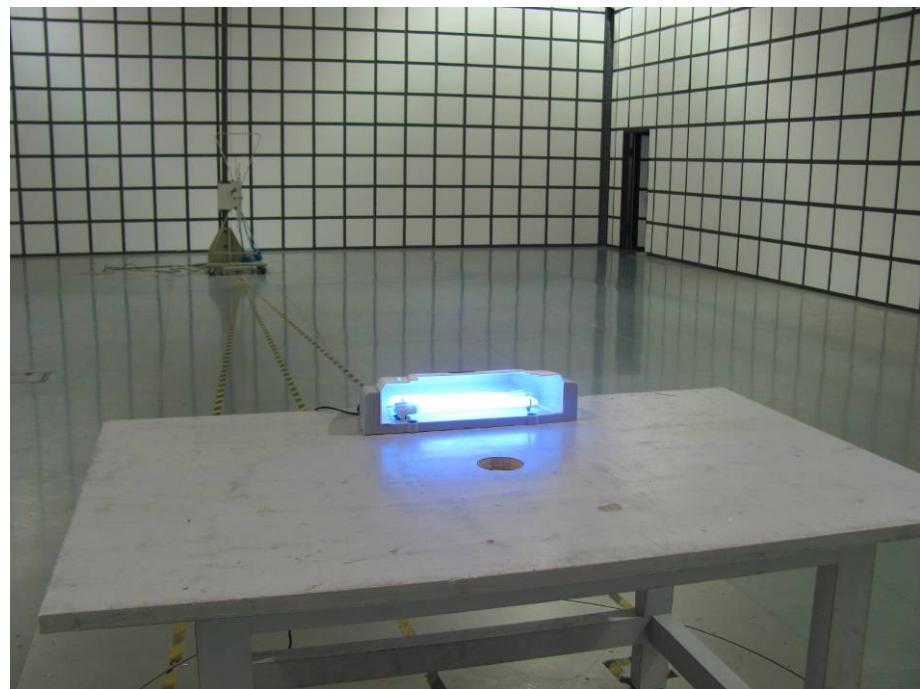
16.1.Photo of Conducted Emission Measurement



16.2.Photo of Magnetic Field Emission Measurement



16.3.Photo of Radiation Emission Measurement



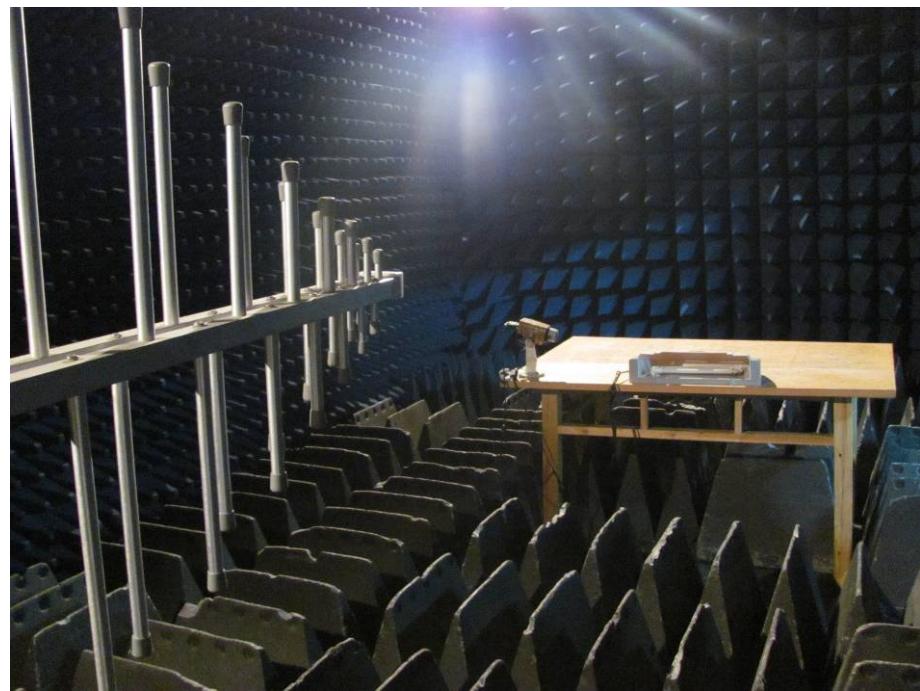
16.4.Photo of Harmonic / Flicker Measurement



16.5.Photo of Electrostatic Discharge Test



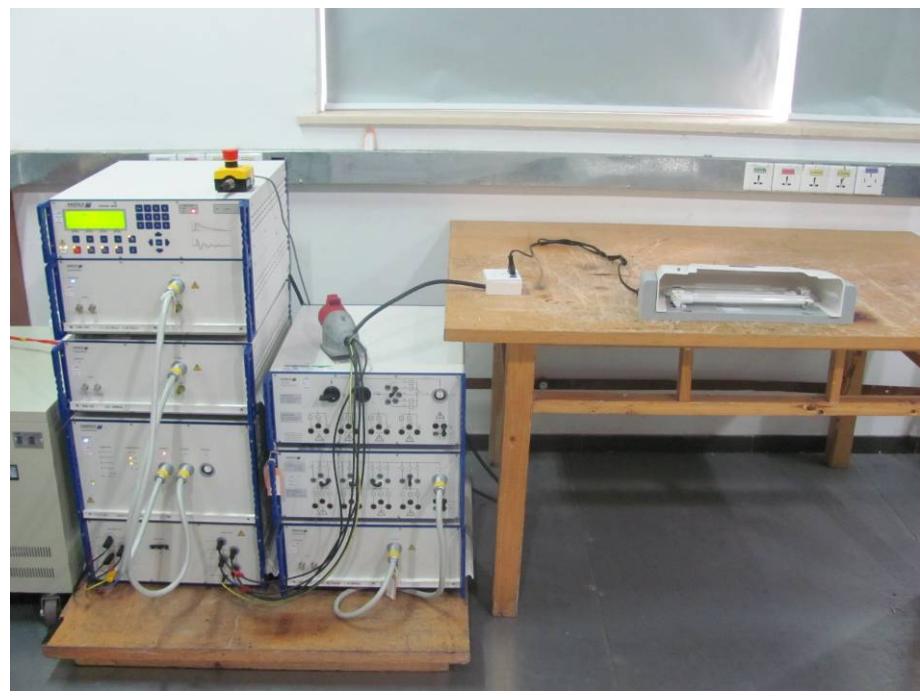
16.6.Photo of RF Field Strength Susceptibility Test



16.7.Photo of Electrical Fast Transient / Burst Test



16.8.Photo of Surge Test



16.9.Photo of Injected Currents Susceptibility Test



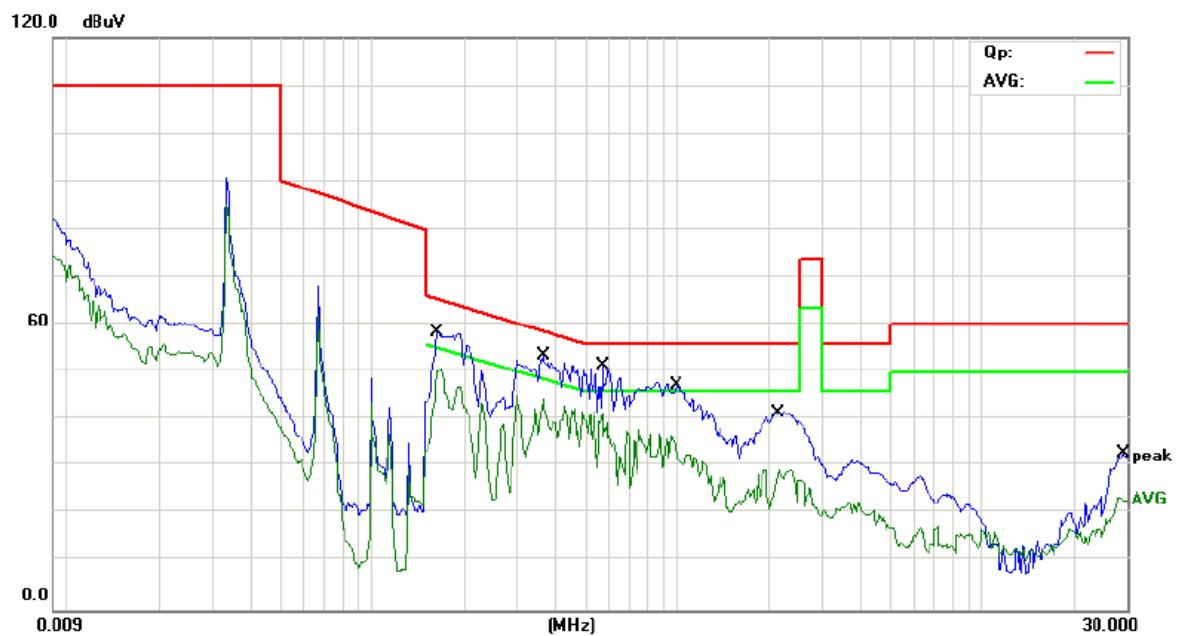
16.10.Photo of Magnetic Field Immunity Test



16.11.Photo of Voltage Dips and Interruption Immunity Test



APPENDIX I



Site Conduction #1

Phase: *N*

Temperature: 26

Limit: (CE)EN55015_QP

Power: AC 230V/50Hz

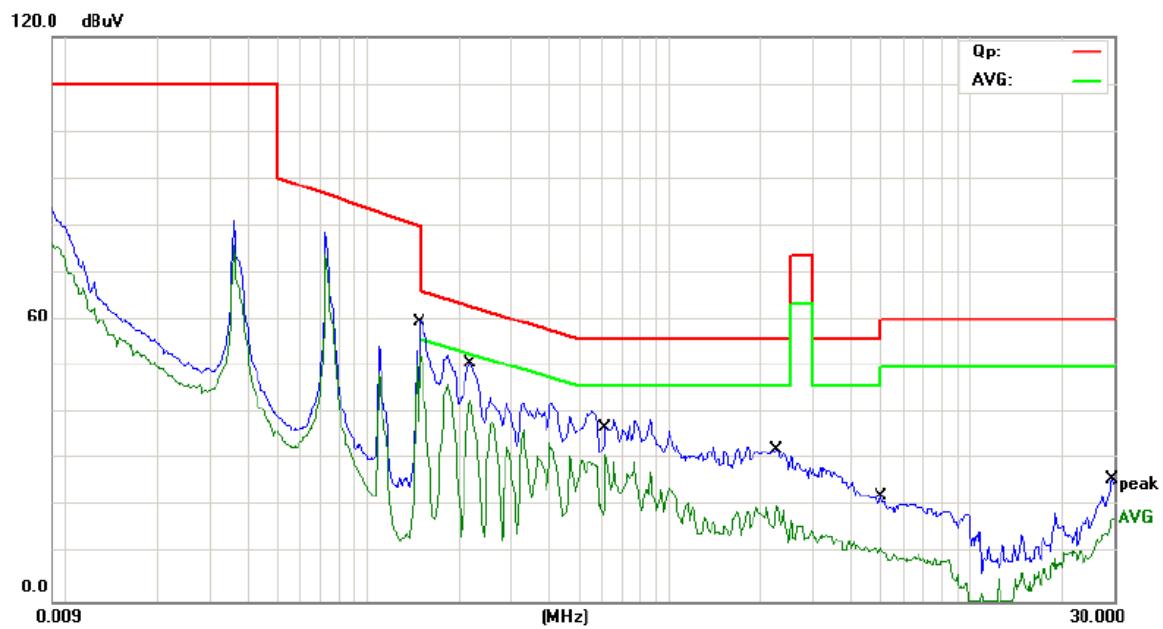
Humidity: 60 %

Mode: ON

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1650	58.44	0.00	58.44	65.21	-6.77	QP	
2		0.1650	50.80	0.00	50.80	55.21	-4.41	AVG	
3		0.3650	53.52	0.00	53.52	58.61	-5.09	QP	
4 *		0.3650	44.67	0.00	44.67	48.61	-3.94	AVG	
5		0.5725	51.31	0.00	51.31	56.00	-4.69	QP	
6		0.5725	41.40	0.00	41.40	46.00	-4.60	AVG	
7		1.0000	47.11	0.00	47.11	56.00	-8.89	QP	
8		1.0000	37.14	0.00	37.14	46.00	-8.86	AVG	
9		2.1700	41.82	0.00	41.82	56.00	-14.18	QP	
10		2.1700	29.32	0.00	29.32	46.00	-16.68	AVG	
11		29.1000	32.70	0.00	32.70	60.00	-27.30	QP	
12		29.1000	23.53	0.00	23.53	50.00	-26.47	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: JOE



Site Conduction #1

Phase: L1

Temperature: 26

Limit: (CE)EN55015_QP

Power: AC 230V/50Hz

Humidity: 60 %

Mode: ON

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1500	59.66	0.00	59.66	66.00	-6.34	QP	
2 *		0.1500	52.79	0.00	52.79	56.00	-3.21	AVG	
3		0.2200	50.89	0.00	50.89	62.82	-11.93	QP	
4		0.2200	42.99	0.00	42.99	52.82	-9.83	AVG	
5		0.6200	40.56	0.00	40.56	56.00	-15.44	QP	
6		0.6200	30.96	0.00	30.96	46.00	-15.04	AVG	
7		2.2900	32.12	0.00	32.12	56.00	-23.88	QP	
8		2.2900	20.23	0.00	20.23	46.00	-25.77	AVG	
9		5.1400	22.73	0.00	22.73	60.00	-37.27	QP	
10		5.1400	10.51	0.00	10.51	50.00	-39.49	AVG	
11		30.0000	26.00	0.00	26.00	60.00	-34.00	QP	
12		30.0000	17.49	0.00	17.49	50.00	-32.51	AVG	

*:Maximum data

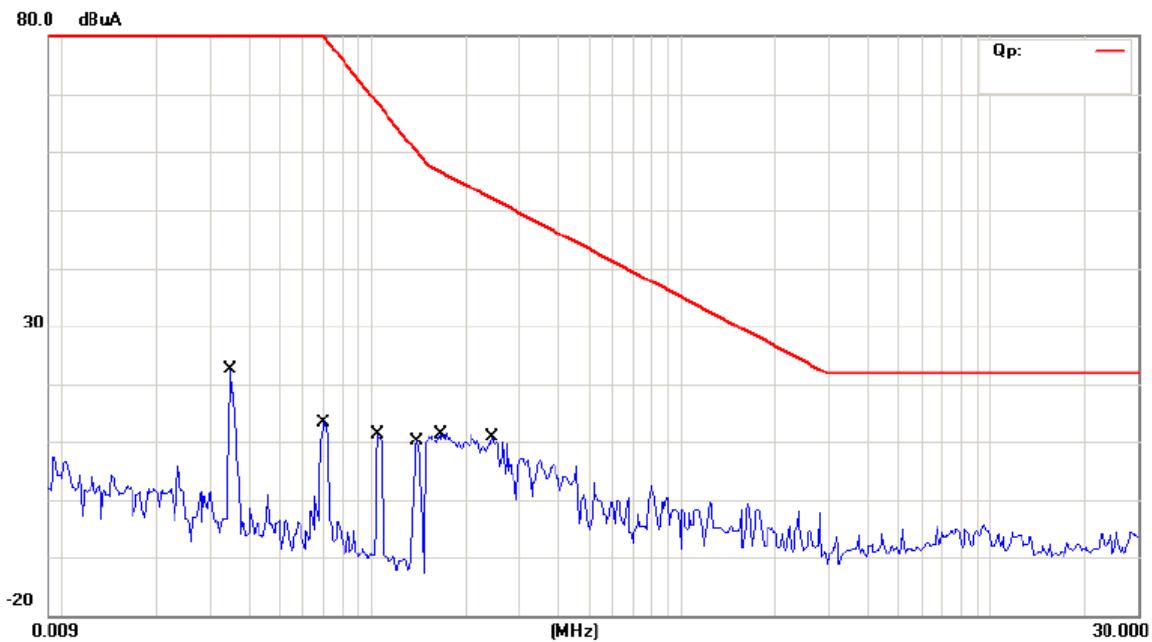
x:Over limit

!:over margin

Comment: Factor build in receiver.

Operator: JOE

APPENDIX II



Site Conduction #1

Phase: ***LOOP A***

Temperature: 26

Limit: (ME)EN55015

Power: AC 230V/50Hz

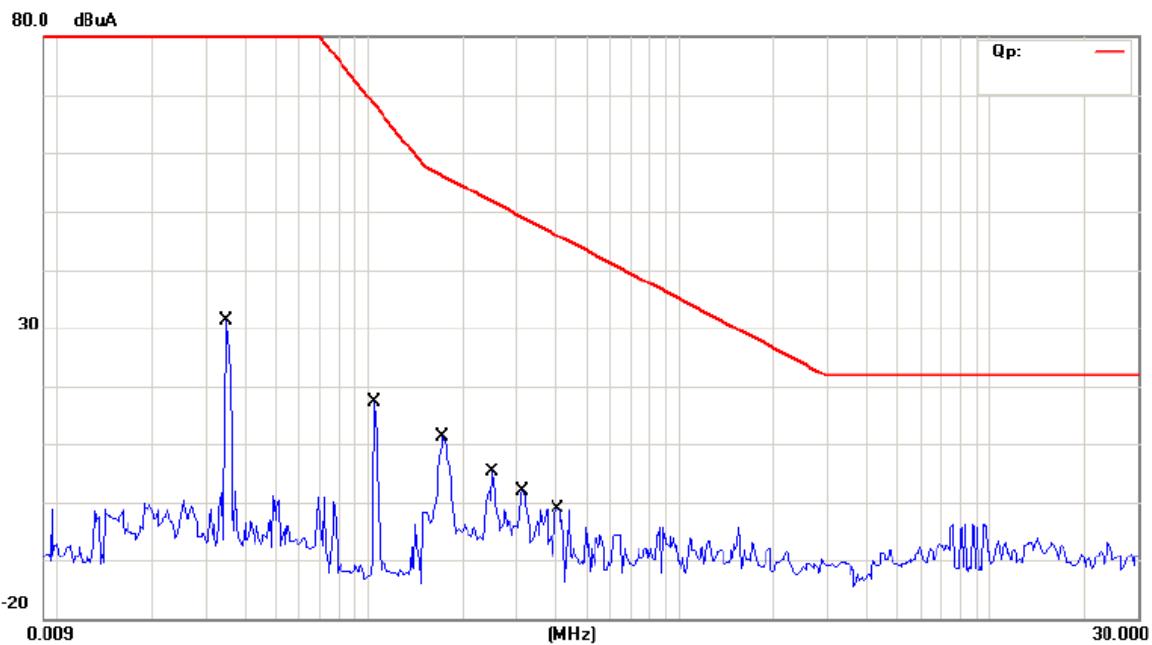
Humidity: 60 %

Mode: ON

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over					
							MHz	dBuA	dB	dBuA	dB	Detector
1		0.0350	22.60	0.00	22.60	88.00	-65.40	QP				
2		0.0700	13.42	0.00	13.42	88.00	-74.58	QP				
3		0.1048	11.40	0.00	11.40	72.11	-60.71	QP				
4		0.1396	10.13	0.00	10.13	60.83	-50.70	QP				
5		0.1683	11.30	0.00	11.30	56.62	-45.32	QP				
6	*	0.2450	10.89	0.00	10.89	52.10	-41.21	QP				

*:Maximum data x:Over limit l:over margin Comment: Factor build in receiver. Operator: JOE



Site Conduction #1

Phase: **LOOP B**

Temperature: 26

Limit: (ME)EN55015

Power: AC 230V/50Hz

Humidity: 60 %

Mode: ON

Note:

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuA	Over dB	Detector	Comment
			dBuA	dB	dBuA				
1		0.0350	31.48	0.00	31.48	88.00	-56.52	QP	
2		0.1048	17.48	0.00	17.48	72.11	-54.63	QP	
3	*	0.1750	11.33	0.00	11.33	56.15	-44.82	QP	
4		0.2504	5.04	0.00	5.04	51.84	-46.80	QP	
5		0.3150	1.82	0.00	1.82	49.08	-47.26	QP	
6		0.4100	-1.18	0.00	-1.18	45.92	-47.10	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: JOE



Site Conduction #1

Phase: **LOOP C**

Temperature: 26

Limit: (ME)EN55015

Power: AC 230V/50Hz

Humidity: 60 %

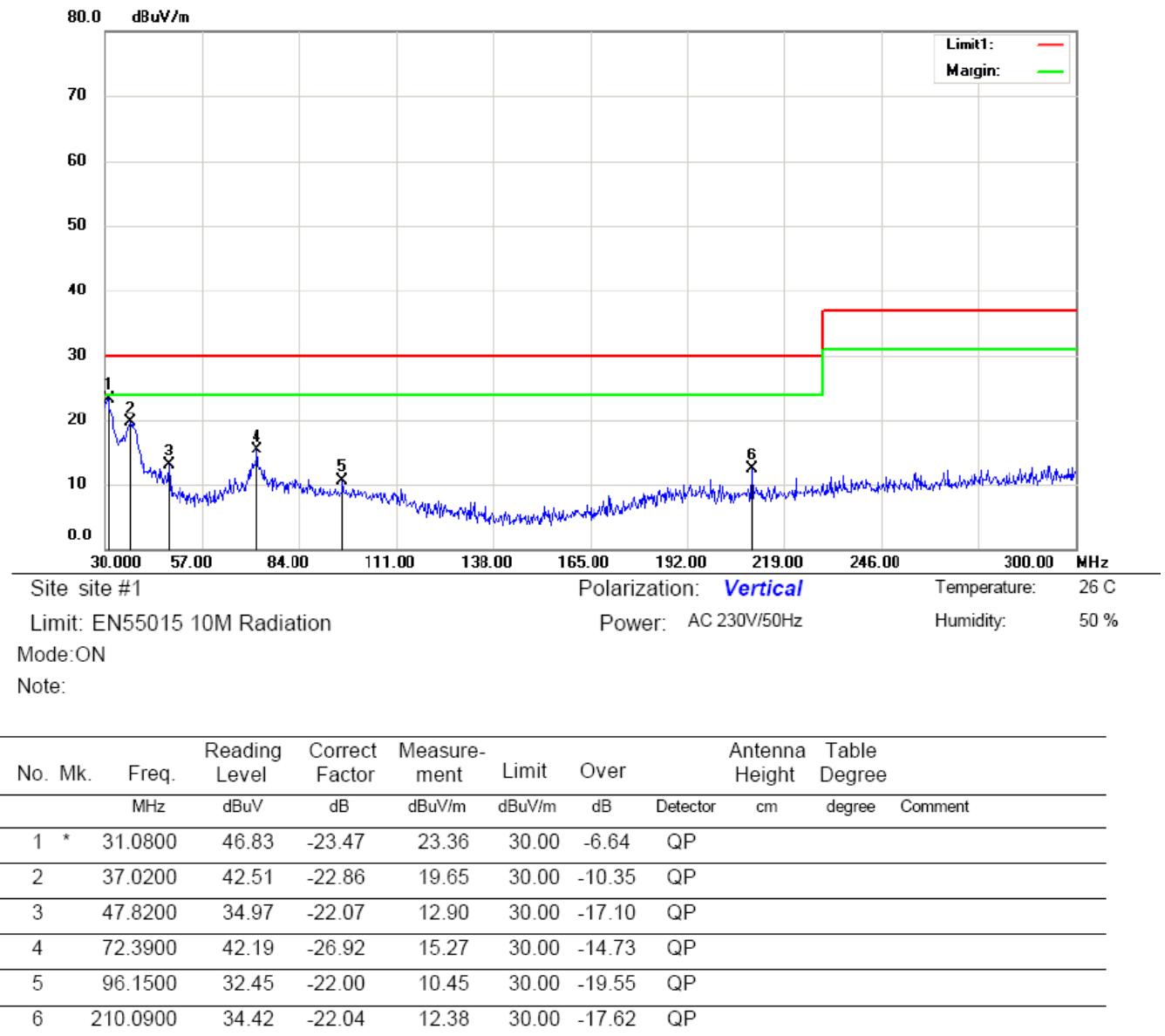
Mode: ON

Note:

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuA	dB	dBuA	dBuA	dB		
1		0.1600	11.32	0.00	11.32	57.22	-45.90	QP	
2		0.1766	11.12	0.00	11.12	56.04	-44.92	QP	
3		0.3200	11.10	0.00	11.10	48.89	-37.79	QP	
4		0.5600	-0.05	0.00	-0.05	42.17	-42.22	QP	
5		0.8950	-0.37	0.00	-0.37	36.54	-36.91	QP	
6	*	1.3000	-0.70	0.00	-0.70	32.05	-32.75	QP	

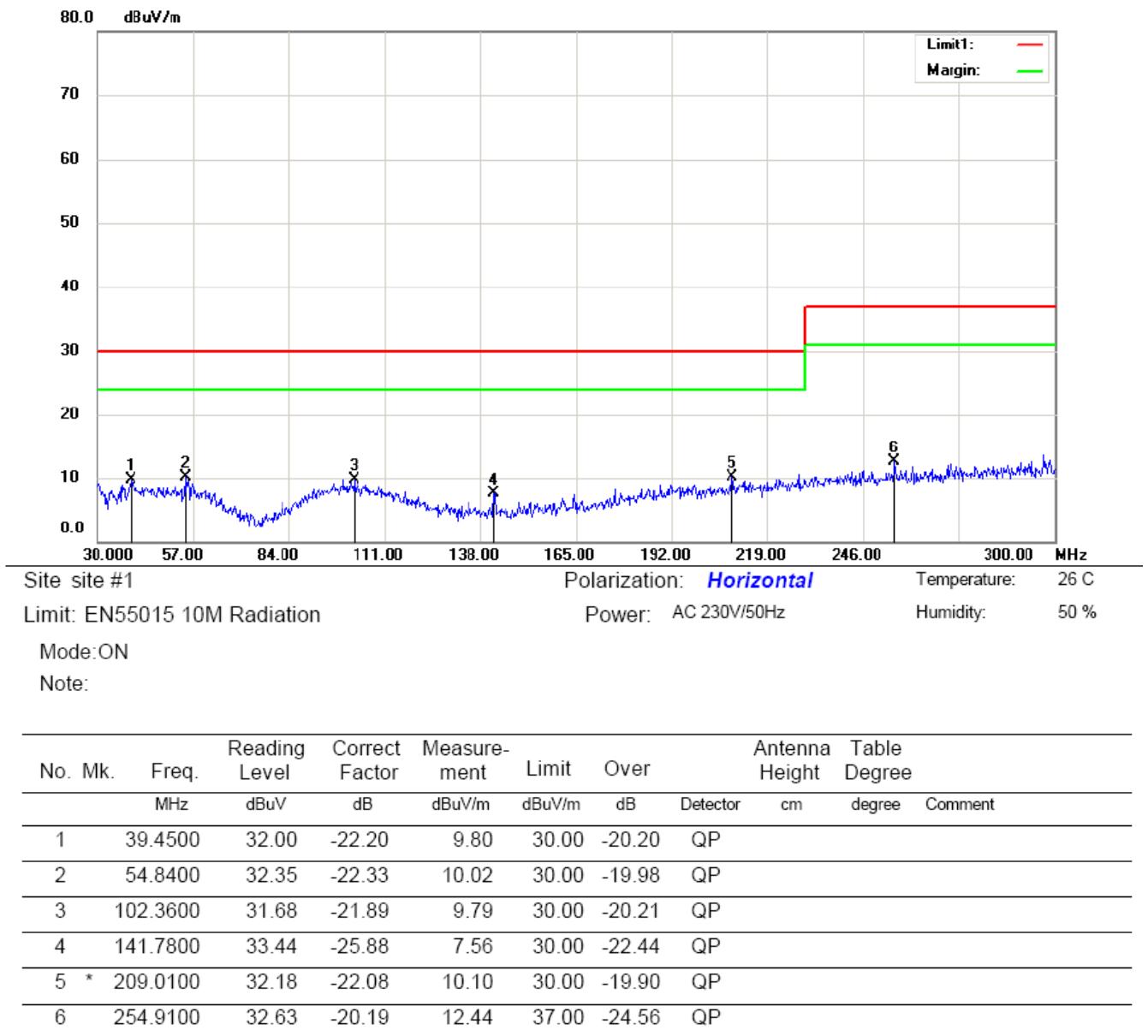
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: JOE

APPENDIX III



*:Maximum data x:Over limit !:over margin

Operator: Jason



*:Maximum data x:Over limit !:over margin

Operator: Jason

APPENDIX IV (Photos of EUT)



