

EMC TEST REPORT
for
Cixi Sandie Electrical Appliance Co., Ltd.

WASHING MACHINE

Model No.: XPB68-2008, XPB68-2008G, XPB68-2088G, XPB68-2008D,
XPB68-2088D, XPB68-2008H, XPB68-2088H, XPB68-2008E,
XPB68-2088E, XPB68-2008C, XPB68-2088C 6.8kg, XPB65-2008 6.5kg,
XPB62-2008 6.2kg, XPB60-2088G, XPB60-2008G, XPB60-2008D,
XPB60-2088D, XPB60-2008H, XPB60-2088H, XPB60-2088E,
XPB60-2008E, XPB60-2008C, XPB60-2088C 6.0kg, XPB48-2008 4.8kg,
XPB40-2008 4.0kg 220V-240V 50Hz/60Hz IPX4 400W

Prepared for : Cixi Sandie Electrical Appliance Co., Ltd.
Address : Qiuwang Villagel, Longshan Town, Cixi, Zhejiang,
China
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Report No. : ATE20161094
Date of Test : June 8-10, 2016
Date of Report : June 12, 2016

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Test Report Declaration

Applicant : Cixi Sandie Electrical Appliance Co., Ltd.
Manufacturer : Cixi Sandie Electrical Appliance Co., Ltd.
Product : WASHING MACHINE
Model No. : XPB68-2008, XPB68-2008G, XPB68-2088G, XPB68-2008D,
XPB68-2088D, XPB68-2008H, XPB68-2088H, XPB68-2008E,
XPB68-2088E, XPB68-2008C, XPB68-2088C 6.8kg,
XPB65-2008 6.5kg, XPB62-2008 6.2kg, XPB60-2088G,
XPB60-2008G, XPB60-2008D, XPB60-2088D, XPB60-2008H,
XPB60-2088H, XPB60-2088E, XPB60-2008E, XPB60-2008C,
XPB60-2088C 6.0kg, XPB48-2008 4.8kg,
XPB40-2008 4.0kg 220V-240V 50Hz/60Hz IPX4 400W

Test Procedure Used:

EN 55014-1: 2006+A1: 2009+A2: 2011

EN 61000-3-2:2014

EN 61000-3-3: 2013

EN 55014-2: 1997 + A1: 2001 + A2: 2008

The device described above is tested by Accurate Technology 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. This report shows the EUT to be technically compliant with the EN55014-1, EN61000-3-2, EN61000-3-3, and EN55014-2 requirements. The test results are contained in this report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

Date of Test : June 8-10, 2016

Date of Report: June 12, 2016

Prepared by :



(Fan Yang, Manager)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	EN 55014-1	Pass
Disturbance Power	EN 55014-1	Pass
Radiated Emission	EN 55014-1	N/A
Harmonic Current	EN 61000-3-2	Pass
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass
Electrostatic Discharge Immunity	EN 55014-2 (IEC 61000-4-2)	N/A
Radiated Electromagnetic Fields Immunity	EN 55014-2 (IEC 61000-4-3)	N/A
Electrical Fast Transients/Bursts Immunity	EN 55014-2 (IEC 61000-4-4)	N/A
Surge Immunity	EN 55014-2 (IEC 61000-4-5)	N/A
Injected Current Susceptibility Test	EN 55014-2 (IEC 61000-4-6)	N/A
Voltage dips and interruptions Immunity	EN 55014-2 (IEC 61000-4-11)	N/A

Remark: "N/A" means "Not applicable".

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	WASHING MACHINE
Model Number	:	XPB68-2008, XPB68-2008G, XPB68-2088G, XPB68-2008D, XPB68-2088D, XPB68-2008H, XPB68-2088H, XPB68-2008E, XPB68-2088E, XPB68-2008C, XPB68-2088C 6.8kg, XPB65-2008 6.5kg, XPB62-2008 6.2kg, XPB60-2088G, XPB60-2008G, XPB60-2008D, XPB60-2088D, XPB60-2008H, XPB60-2088H, XPB60-2088E, XPB60-2008E, XPB60-2008C, XPB60-2088C 6.0kg, XPB48-2008 4.8kg, XPB40-2008 4.0kg 220V-240V 50Hz/60Hz IPX4 400W (Note: Above models are identical in schematic, structure and critical components except for model name and power. So we prepare XPB68-2008 for test only.)
Trade Mark	:	N/A
Rating	:	AC 220-240V, 50/60Hz
Applicant	:	Cixi Sandie Electrical Appliance Co., Ltd.
Address	:	Qiuwang Villagel, Longshan Town, Cixi, Zhejiang, China
Manufacturer	:	Cixi Sandie Electrical Appliance Co., Ltd.
Address	:	Qiuwang Villagel, Longshan Town, Cixi, Zhejiang, China
Date of sample received	:	June 2, 2016
Date of Test	:	June 8-10, 2016

2.2. Accessory and Auxiliary Equipment

N/A

2.3. Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen
		Listed by FCC
		The Registration Number is 253065
		Listed by FCC
		The Registration Number is 752051
		Listed by Industry Canada
		The Registration Number is 5077A-1
		Listed by Industry Canada
		The Registration Number is 5077A-2
		Accredited by China National Accreditation Committee for Laboratories
		The Certificate Registration Number is L3193
Name of Firm	:	ACCURATE TECHNOLOGY CO. LTD
Site Location	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China
Subcontractor	:	Shenzhen Academy of Metrology and Quality Inspection
Site Location	:	Bldg. of Shenzhen Academy of Metrology and Quality Inspection, Longzhu Road, Nanshan, Shenzhen, China.

2.4. Measurement Uncertainty

Conducted emission expanded uncertainty	:	U=2.23dB, k=2
Power disturbance expanded uncertainty	:	U=2.92dB, k=2
Harmonic current expanded uncertainty	:	U=0.512%, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	:	U=3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	:	U=4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	:	U=4.06dB, k=2

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.9, 2016	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI	100396/003	Jan.9, 2016	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI	101526/003	Jan.9, 2016	1 Year
4.	Test Receiver	Rohde & Schwarz	ESR	101817	Jan.9, 2016	1 Year
5.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.9, 2016	1 Year
6.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100305	Jan.9, 2016	1 Year
7.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	Jan.9, 2016	1 Year
8.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100132	Jan.9, 2016	1 Year
9.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100979	Jan.9, 2016	1 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.9, 2016	1 Year
11.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100312	Jan.9, 2016	1 Year
12.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan.9, 2016	1 Year
13.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 6	Jan.9, 2016	1 Year
14.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 3	Jan.9, 2016	1 Year
15.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620050647 4	Jan.9, 2016	1 Year
16.	VOLTAGE PROBE	Schwarzbeck	TK9416	N/A	Jan.9, 2016	1 Year
17.	RF CURRENT PROBE	Rohde & Schwarz	EZ-17	100048	Jan.9, 2016	1 Year
18.	8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	Jan.9, 2016	1 Year
19.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.9, 2016	1 Year
20.	RF Coaxial Cable	SUHNER	N-2m	No.3	Jan.9, 2016	1 Year
21.	RF Coaxial Cable	SUHNER	N-2m	No.14	Jan.9, 2016	1 Year

3.2.For Disturbance Power Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.9, 2016	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI	100396/003	Jan.9, 2016	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI	101526/003	Jan.9, 2016	1 Year
4.	Test Receiver	Rohde & Schwarz	ESR	101817	Jan.9, 2016	1 Year
5.	Absorbing Clamp	Rohde & Schwarz	MDS21	100142	Jan.10, 2016	1 Year
6.	Absorbing Clamp	Rohde & Schwarz	MDS21	100136	Jan.10, 2016	1 Year
7.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.9, 2016	1 Year
8.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283936	Jan.9, 2016	1 Year
9.	RF Coaxial Cable	JING CHENG	N-6m	No.4	Jan.9, 2016	1 Year
10.	RF Coaxial Cable	JING CHENG	N-6m	No.5	Jan.9, 2016	1 Year

3.3.For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.9, 2016	1 Year
2.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.9, 2016	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.9, 2016	1 Year
4.	Test Receiver	Rohde& Schwarz	ESPI	100396/003	Jan.9, 2016	1 Year
5.	Test Receiver	Rohde& Schwarz	ESPI	101526/003	Jan.9, 2016	1 Year
6.	Test Receiver	Rohde& Schwarz	ESR	101817	Jan.9, 2016	1 Year
7.	Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.14, 2016	1 Year
8.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.14, 2016	1 Year
9.	Log.-Per.Antenna	Schwarzbeck	VUSLP 9111B	9111B-074	Jan.14, 2016	1 Year
10.	Biconical Broad Band Antenna	Schwarzbeck	VHBB 9124+BBA 9106	9124-617	Jan.14, 2016	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.14, 2016	1 Year
12.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.14, 2016	1 Year
13.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan.14, 2016	1 Year
14.	Vertical Active Monopole Antenna	Schwarzbeck	VAMP 9243	9243-370	Jan.14, 2016	1 Year
15.	RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.9, 2016	1 Year
16.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.9, 2016	1 Year
17.	Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	Jan.9, 2016	1 Year
18.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.9, 2016	1 Year
19.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.9, 2016	1 Year
20.	RF Coaxial Cable	Schwarzbeck	N-5m	No.1	Jan.9, 2016	1 Year
21.	RF Coaxial Cable	Schwarzbeck	N-1m	No.6	Jan.9, 2016	1 Year
22.	RF Coaxial Cable	Schwarzbeck	N-1m	No.7	Jan.9, 2016	1 Year

23.	RF Coaxial Cable	SUHNER	N-3m	No.8	Jan.9, 2016	1 Year
24.	RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	Jan.9, 2016	1 Year
25.	RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.9, 2016	1 Year
26.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.9, 2016	1 Year
27.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.9, 2016	1 Year
28.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.9, 2016	1 Year
29.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.9, 2016	1 Year
30.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.9, 2016	1 Year
31.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.9, 2016	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-400	55689	Jan.9, 2016	1 Year
2.	Test analyzer	California Instruments	PACS-1	72254	Jan.9, 2016	1 Year

3.5.For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Eqpt No.	Last Cal.	Cal. Interval
1.	Signal Generator	Rohde & Schwarz	SMB100A	SB9422/02	Jul.03, 2015	1 Year
2.	Signal Generator	Rohde & Schwarz	SMF100A	SB8501/03	Apr.16, 2016	1 Year
3.	Voltage Meter	Rohde & Schwarz	URV5-Z2	SB9422/03	Apr.16, 2016	1 Year
4.	Voltage Meter	Rohde & Schwarz	URV5-Z2	SB9422/04	Apr.16, 2016	1 Year
5.	Power Probe	Rohde & Schwarz	NRP-Z81	SB9422/06	Apr.17, 2016	1 Year
6.	Power Probe	Rohde & Schwarz	NRP-Z81	SB9422/07	Apr.17, 2016	1 Year
7.	Power Meter	Rohde & Schwarz	NRP	SB9422/05	Apr.16, 2016	1 Year
8.	Power Amplifier	PRANA	MT310A	SB9422/08	Mar.28, 2016	1 Year
9.	Broadband Antenna	Rohde & Schwarz	HL046E	SB9422/13	Mar.28, 2016	1 Year
10.	Horn Antenna	AR	ATH800M5GA	SB9422/15	Mar.28, 2016	1 Year
11.	Power Amplifier	MILMEGA	A-001	SB9422/10	Mar.28, 2016	1 Year
12.	Power Meter	Rohde & Schwarz	NRVD	SB3437	Apr.16, 2016	1 Year

3.6.For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Generator	TESEQ	NSG 437	823	Jan.10, 2016	1 Year

3.7.For Electrical Fast Transient /Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ULTRA COMPACT SIMULATOR	EM TEST	UCS 500 N5	V0928104968	Jan.9, 2016	1Year
2.	CAPACITIVE CLAMP	EM TEST	HFK	0509-34	Jan.9, 2016	1Year
3.	EMCPRO SYSTEM (IMMUNITY TESTER)	THERMO	EMC PRO Plus-BASE	1108237	Jan.9, 2016	1Year

3.8.For Surge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ULTRA COMPACT SIMULATOR	EM TEST	UCS 500 N5	V0928104968	Jan.9, 2016	1Year
2.	EMCPRO SYSTEM (IMMUNITY TESTER)	THERMO	EMC PRO Plus-BASE	1108237	Jan.9, 2016	1Year
3.	COUPLER DECOUPLER FOR TELECOM LINES	THERMO	CM-TEL-CD	0403273	Jan.9, 2016	1Year

3.9.For Injected Current Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Conducted Immunity System Test	FRANKONIA	CIT-10	126B1121	Jan.9, 2016	1Year
2.	CDN	FRANKONIA	CDN-M2/3	A3027020	Jan.9, 2016	1Year
3.	EM Injection Clamp	FCC	F-203I-23mm	091824	Jan.9, 2016	1Year
4.	6dB Attenuator	Weinschel	WA59-6-33	A329	Jan.9, 2016	1Year

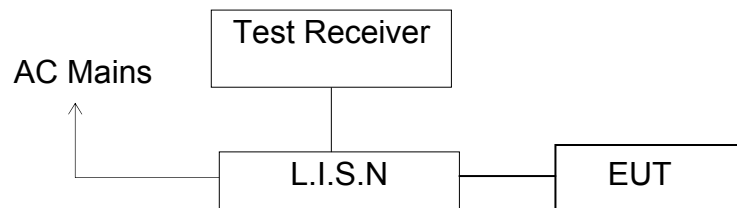
3.10.For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ULTRA COMPACT SIMULATOR	EM TEST	UCS500 N5	V0928104968	Jan.9, 2016	1Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup

4.1.1. For On mode



(EUT: WASHING MACHINE)

4.2. Measuring Standard

EN 55014-1: 2006+A1: 2009+A2: 2011

4.3. Power Line Conducted Emission Limits

EN55014-1

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 - 56.0 *	59.0 - 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

Note: * means decreasing linearly with logarithm of frequency.

4.4. Manufacturer

The following equipments are installed on Conducted Emission Measurement to meet EN55014-1 requirements and operating in a manner, which tend to maximize its emission characteristics in a normal application.

4.4.1. WASHING MACHINE(EUT)

Model No.: XPB68-2008

Serial No.: N/A

Manufacturer : Cixi Sandie Electrical Appliance Co., Ltd.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown on Section 4.1.

4.5.2. Turn on the power of all equipments.

4.5.3. Let the EUT work in test modes (ON) and measure it.

4.6. Test Procedure

The EUT is put on the plane 0.1m high above the ground by insulating support and connected to the AC mains through a Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN55014-1 regulations during conducted emission measurement.

The bandwidth of the test receiver (R&S Test Receiver ESCS30) is set at 9kHz.

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

4.7.Measuring Results

PASS.

The frequency spectrum from 150 KHz to 30 MHz is investigated.

Test mode: On								
MEASUREMENT RESULT: "1094-1_fin"								
2016-6-8 14:23								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBuV	dB	dBuV	dB				
0.418000	26.60	11.3	58	30.9	QP	L1	GND	
0.582000	20.80	11.5	56	35.2	QP	L1	GND	
1.490000	18.10	11.6	56	37.9	QP	L1	GND	
MEASUREMENT RESULT: "1094-1_fin2"								
2016-6-8 14:23								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBuV	dB	dBuV	dB				
0.418000	10.80	11.3	48	37.1	AV	L1	GND	
5.973500	7.70	11.8	50	42.3	AV	L1	GND	
14.820500	-3.60	11.9	50	53.6	AV	L1	GND	
MEASUREMENT RESULT: "1094-2_fin"								
2016-6-8 14:27								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBuV	dB	dBuV	dB				
1.194000	17.80	11.6	56	38.2	QP	N	GND	
1.368000	19.10	11.6	56	36.9	QP	N	GND	
4.974500	13.10	11.8	56	42.9	QP	N	GND	
MEASUREMENT RESULT: "1094-2_fin2"								
2016-6-8 14:27								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBuV	dB	dBuV	dB				
1.194000	21.50	11.6	46	24.5	AV	N	GND	
12.516500	17.50	11.9	50	32.5	AV	N	GND	
12.539000	-1.60	11.9	50	51.6	AV	N	GND	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are shown in the following pages.

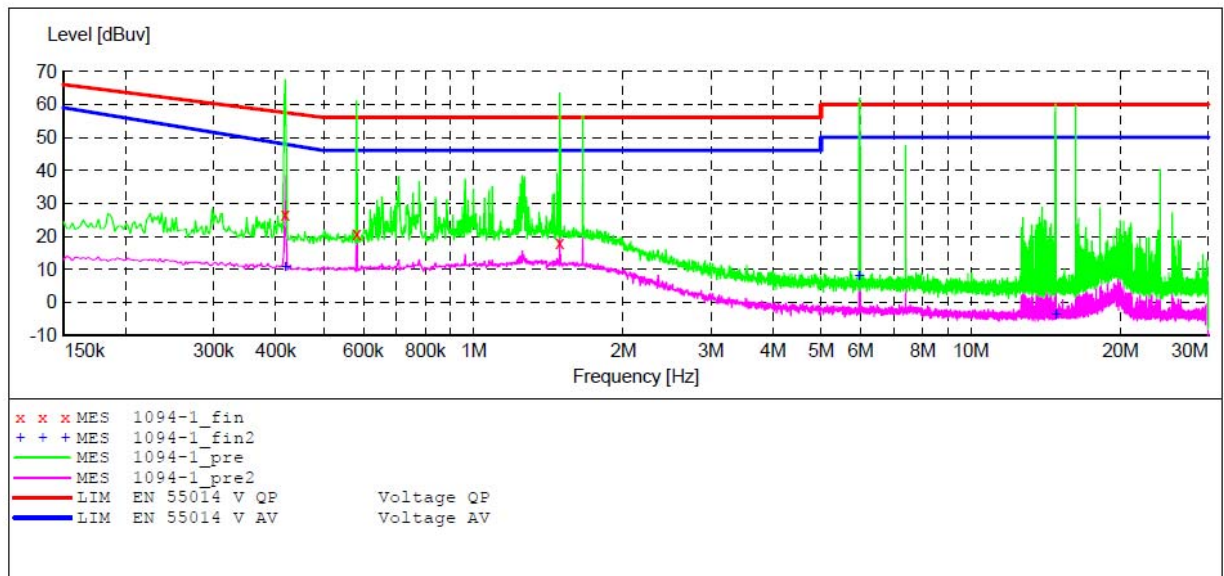
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD EN55014-1

EUT: WASHING MACHINE M/N:XPB68-2008
 Manufacturer: SANDIE
 Operating Condition: On
 Test Site: 2#Shielding Room
 Operator: Frank
 Test Specification: L 230V/50Hz
 Comment: Report NO.:ATE20161094
 Start of Test: 2016-6-8 / 14:22:20

SCAN TABLE: "V 150K-30MHz fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
Short Description: _SUB_STD_VTERM2 1.70			Average			



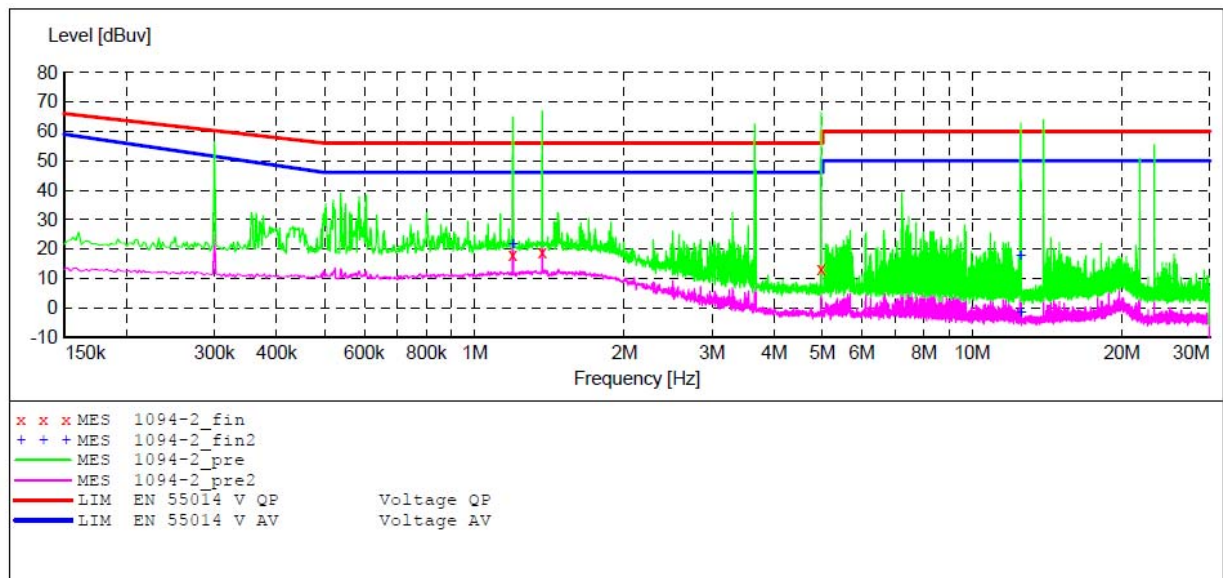
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD EN55014-1

EUT: WASHING MACHINE M/N:XPB68-2008
 Manufacturer: SANDIE
 Operating Condition: On
 Test Site: 2#Shielding Room
 Operator: Frank
 Test Specification: N 230V/50Hz
 Comment: Report NO.:ATE20161094
 Start of Test: 2016-6-8 / 14:24:49

SCAN TABLE: "V 150K-30MHz fin"

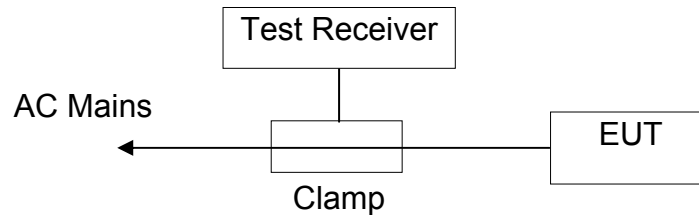
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN (ESH3-Z5)
			Average			



5. DISTURBANCE POWER MEASUREMENT

5.1. Block Diagram of Test Setup

5.1.1. For On mode



(EUT: WASHING MACHINE)

5.2. Measuring Standard

EN 55014-1: 2006+A1: 2009+A2: 2011

5.3. Disturbance Power Limits

5.3.1. Disturbance power limits for the frequency range 30 MHz to 300 MHz

Frequency MHz	Limits dB(pW)	
	Quasi-peak Value	Average Value
30 - 300	45 Increasing Linearly with Frequency to 55 (QP)	35 Increasing Linearly with Frequency to 45 (AV)

(Table a)

5.3.2. Margin when performing disturbance power measurement in the frequency range 200MHz to 300MHz

Frequency MHz	Limits dB(pW)	
	Quasi-peak Value	Average Value
200 - 300	0 Increasing Linearly with Frequency to 10 (QP)	- (AV)

Note: The measured result at a particular frequency shall be less than the relevant limit minus the corresponding margin (at that frequency)

(Table b)

5.4.EUT Configuration on Measurement

The configuration of EUT is listed in Section 4.4.

5.5.Operating Condition of EUT

5.5.1.Setup the EUT as shown on Section 5.1.

5.5.2.Turn on the power of all equipments.

5.5.3.Let the EUT work in test modes (ON) and measure it.

5.6.Test Procedure

The EUT is placed on the plane 0.1m high above the ground by insulating support 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 ESCS30) is set at 120kHz.

5.7.Measuring Results

PASS.

Test mode: On AC Line							
MEASUREMENT RESULT: "1094-3_fin"							
2016-6-8 14:33							
Frequency MHz	Level dBpW	Transd dB	Limit dBpW	Margin dB	Det.	Position cm	
46.080000	-1.60	8.7	46	47.2	QP	0.0	
56.820000	11.10	7.9	46	34.9	QP	0.0	
131.460000	10.00	7.0	49	38.8	QP	0.0	
198.300000	10.40	6.5	51	40.8	QP	0.0	
MEASUREMENT RESULT: "1094-3_fin2"							
2016-6-8 14:33							
Frequency MHz	Level dBpW	Transd dB	Limit dBpW	Margin dB	Det.	Position cm	
56.880000	4.50	7.9	36	31.5	AV	0.0	
120.540000	3.60	7.2	38	34.8	AV	0.0	
254.700000	2.50	6.4	43	40.8	AV	0.0	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are shown in the following pages.

Remark: All emission readings from the equipment under test are lower than the applicable limits (Table a) reduced by the margin (Table b)

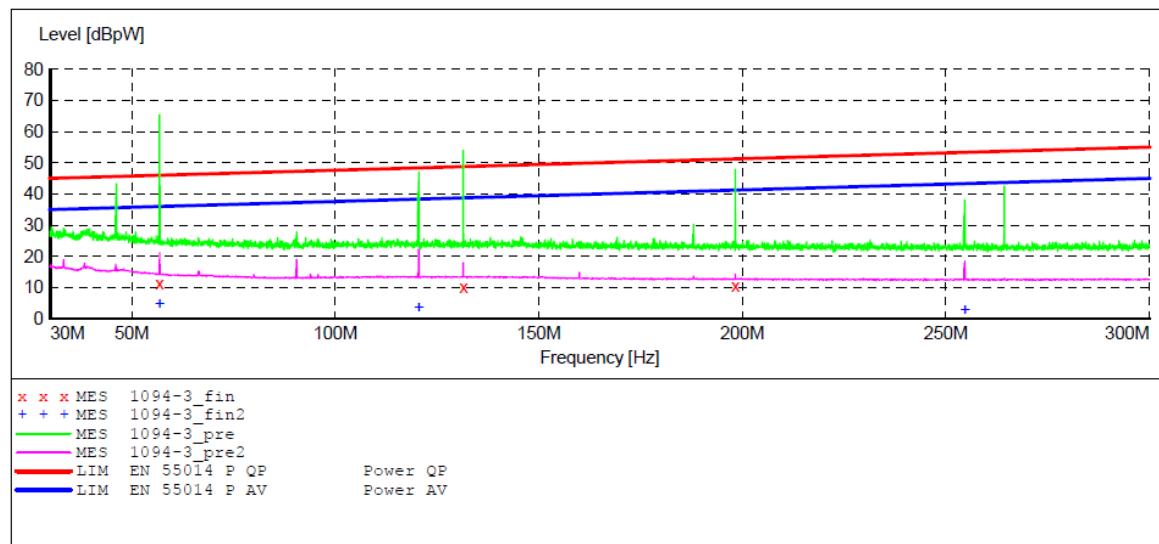
ACCURATE TECHNOLOGY CO., LTD

POWER DISTURBANCE STANDARD EN55014-1

EUT: WASHING MACHINE M/N:XPB68-2008
 Manufacturer: SANDIE
 Operating Condition: On
 Test Site: 2#Shielding Room
 Operator: Frank
 Test Specification: AC 230V / 50Hz
 Comment: Report NO.:ATE20161094
 AC LINE

SCAN TABLE: "P 30MHz-300MHz fin"

Start	Stop	Step	_SUB_STD_VTERM2	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	300.0 MHz	60.0 kHz	1.70	QuasiPeak	1.0 s	120 kHz	MDS-21
Average							

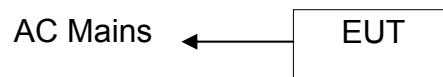


6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test

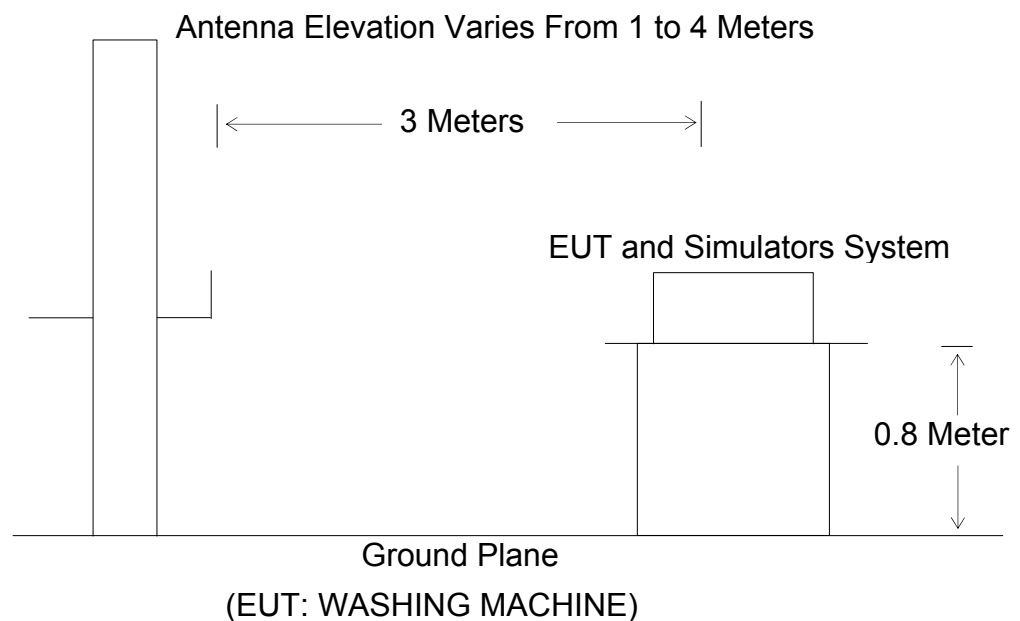
6.1.1. Block diagram of connection between the EUT and simulators

6.1.2.. For On mode



(EUT: WASHING MACHINE)

6.1.3. Block diagram of test setup (In chamber)



6.2. Measuring Standard

EN 55014-1: 2006 + A1: 2009 + A2: 2011

6.3. Radiated Emission Limits

Frequency (MHz)	Distance (Meters)	Field Strengths Limit dB(μ V/m)
30 - 230	3	40
230 - 1000	3	47

- 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. Manufacturer

Test equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

6.4.1. WASHING MACHINE(EUT)

Model Number : XPB68-2008
Manufacturer : Cixi Sandie Electrical Appliance Co., Ltd.

6.5. Operating Condition of EUT

- 6.5.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.5.2. Turn on the power of all equipment.
- 6.5.3. Let the EUT work in test mode (ON) and measure it.

6.6. Test Procedure

The EUT is placed on a turntable, which is 0.1 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an 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 polarizations of the antenna are set on test.

The bandwidth of the Receiver (ESCS30) is set at 120 kHz.

6.7.Measuring Results

N/A

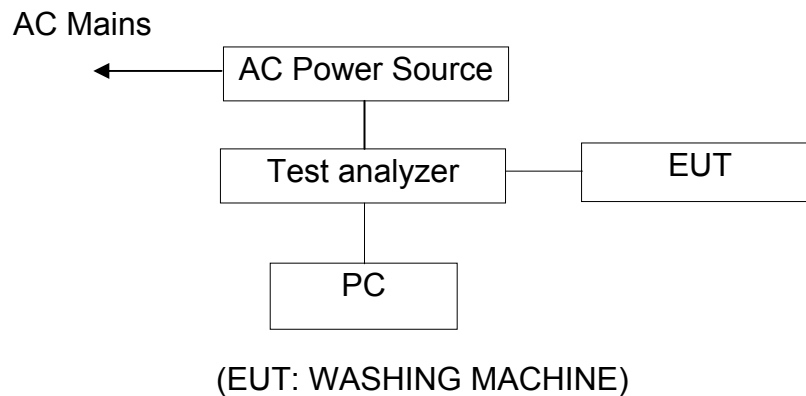
Appliances are deemed to comply in the frequency range from 300 MHz to 1 000 MHz if both of the following conditions (1) and 2)) are fulfilled: 1) all emission readings from the equipment under test shall be lower than the applicable limits (Table 2a) reduced by the margin (Table 2b); 2) the maximum clock frequency shall be less than 30 MHz. If either of condition 1) or 2) is not fulfilled, radiated measurements in the frequency range from 300 MHz to 1 000 MHz shall be conducted and the limits of Table 3 for that range applied. In any case the limits of Table 2a in the frequency range 30 MHz to 300 MHz shall be met.

all emission readings from the equipment under test shall be lower than the applicable limits (Table 2a) reduced by the margin (Table 2b);
the maximum clock frequency shall be less than 30 MHz.

7. HARMONIC CURRENT EMISSION MEASUREMENT

7.1. Block Diagram of Test Setup

7.1.1. For On mode



7.2. Measuring Standard

EN 61000-3-2:2014, CLASS A

7.3. Operation Condition of EUT

Same as Section 4.5 except the test setup replaced as Section 7.1.

7.4. Measuring Results

PASS.

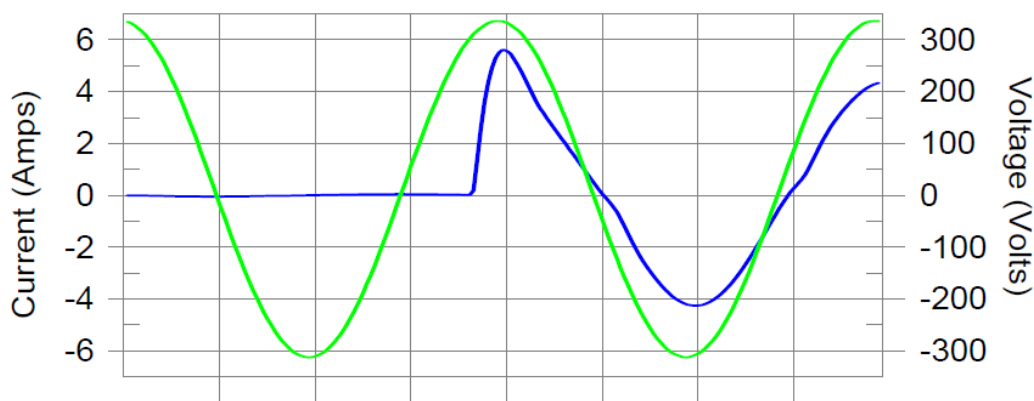
Please see the following page.

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

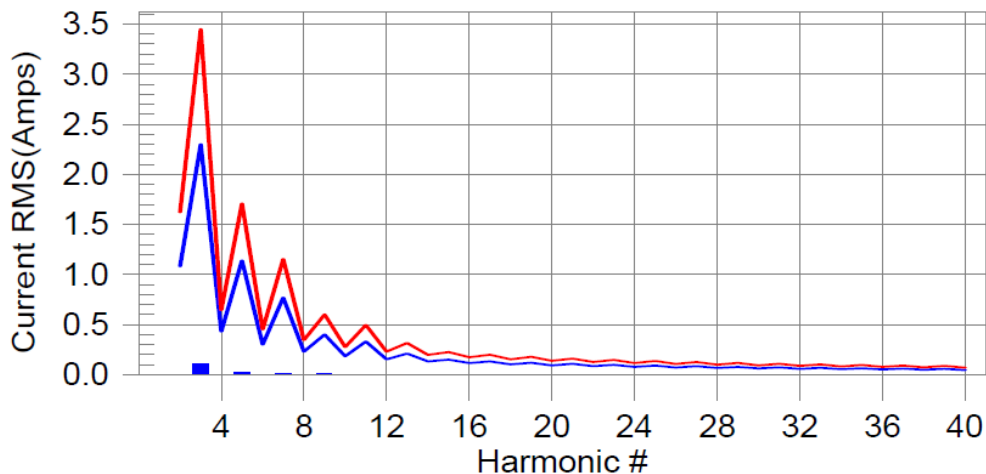
EUT: WASHING MACHINE M/N:XPB68-2008 Tested by: Frank
Test category: Class-A per Ed. 4.0 (2014) (European limits) Test Margin: 100
Test date: 2016/6/10 Start time: 11:32:16 End time: 11:35:07
Test duration (min): 2.5 Data file name: H-000093.cts_data
Comment: On Report NO.:ATE20161094
Manufacturer: SANDIE

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line Eur — opean Limits



Test result: Pass Worst harmonic was #3 with 4.8% of the limit.

Current Test Result Summary (Run time)

EUT: WASHING MACHINE M/N:XPB68-2008 Tested by: Frank
 Test category: Class-A per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2016/6/10 Start time: 11:32:16 End time: 11:35:07
 Test duration (min): 2.5 Data file name: H-000093.cts_data
 Comment: On Report NO.:ATE20161094
 Manufacturer: SANDIE

Test Result: Pass Source qualification: Normal
 THC(A): 0.113 I-THD(%): 15.2 POHC(A): 0.000 POHC Limit(A): 0.251
 Highest parameter values during test:

V_RMS (Volts): 230.01	Frequency(Hz): 50.00
I_Peak (Amps): 5.623	I_RMS (Amps): 1.946
I_Fund (Amps): 0.878	Crest Factor: 8.525
Power (Watts): 186.0	Power Factor: 0.913

Harm#	Harms(avg) 10	0%Limit	%of Limit	Harms(max) 1	50%Limit	%of Limit	Status
2	0.003 1	.080	N/A	0.016 1.62	0	N/A	Pass
3	0.110 2	.300	4.8	0.136 3.45	0	3.9	Pass
4	0.002 0	.430	N/A	0.008 0.64	5	N/A	Pass
5	0.017 1	.140	1.5	0.029 1.71	0	1.7	Pass
6	0.001 0	.300	N/A	0.006 0.45	0	N/A	Pass
7	0.012 0	.770	1.6	0.017 1.15	5	1.5	Pass
8	0.001 0	.230	N/A	0.003 0.34	5	N/A	Pass
9	0.006 0	.400	1.4	0.008 0.60	0	1.4	Pass
10	0.001 0	.184	N/A	0.003 0.27	6	N/A	Pass
11	0.002 0	.330	N/A	0.003 0.49	5	N/A	Pass
12	0.000 0	.153	N/A	0.002 0.23	0	N/A	Pass
13	0.002 0	.210	N/A	0.002 0.31	5	N/A	Pass
14	0.000 0	.131	N/A	0.001 0.19	7	N/A	Pass
15	0.001 0	.150	N/A	0.002 0.22	5	N/A	Pass
16	0.000 0	.115	N/A	0.001 0.17	3	N/A	Pass
17	0.001 0	.132	N/A	0.001 0.19	8	N/A	Pass
18	0.000 0	.102	N/A	0.001 0.15	3	N/A	Pass
19	0.000 0	.118	N/A	0.001 0.17	8	N/A	Pass
20	0.000 0	.092	N/A	0.001 0.13	8	N/A	Pass
21	0.000 0	.107	N/A	0.001 0.16	1	N/A	Pass
22	0.000 0	.084	N/A	0.001 0.12	5	N/A	Pass
23	0.000 0	.098	N/A	0.001 0.14	7	N/A	Pass
24	0.000 0	.077	N/A	0.001 0.11	5	N/A	Pass
25	0.000 0	.090	N/A	0.001 0.13	5	N/A	Pass
26	0.000 0	.071	N/A	0.001 0.10	7	N/A	Pass
27	0.000 0	.083	N/A	0.001 0.12	5	N/A	Pass
28	0.000 0	.066	N/A	0.001 0.09	9	N/A	Pass
29	0.000 0	.078	N/A	0.001 0.11	6	N/A	Pass
30	0.000 0	.061	N/A	0.001 0.09	2	N/A	Pass
31	0.000 0	.073	N/A	0.001 0.10	9	N/A	Pass
32	0.001 0	.058	N/A	0.001 0.08	6	N/A	Pass
33	0.000 0	.068	N/A	0.001 0.10	2	N/A	Pass
34	0.000 0	.054	N/A	0.001 0.08	1	N/A	Pass
35	0.000 0	.064	N/A	0.001 0.09	6	N/A	Pass
36	0.000 0	.051	N/A	0.001 0.07	7	N/A	Pass
37	0.000 0	.061	N/A	0.001 0.09	1	N/A	Pass
38	0.000 0	.048	N/A	0.001 0.07	3	N/A	Pass
39	0.000 0	.058	N/A	0.001 0.08	7	N/A	Pass
40	0.000 0	.046	N/A	0.001 0.06	9	N/A	Pass

Voltage Source Verification Data (Run time)

EUT: WASHING MACHINE M/N:XPB68-2008 Tested by: Frank
 Test category: Class-A per Ed. 4.0 (2014) (European limits) Test Margin: 100
 Test date: 2016/6/10 Start time: 11:32:16 End time: 11:35:07
 Test duration (min): 2.5 Data file name: H-000093.cts_data
 Comment: On Report NO.:ATE20161094
 Manufacturer: SANDIE

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

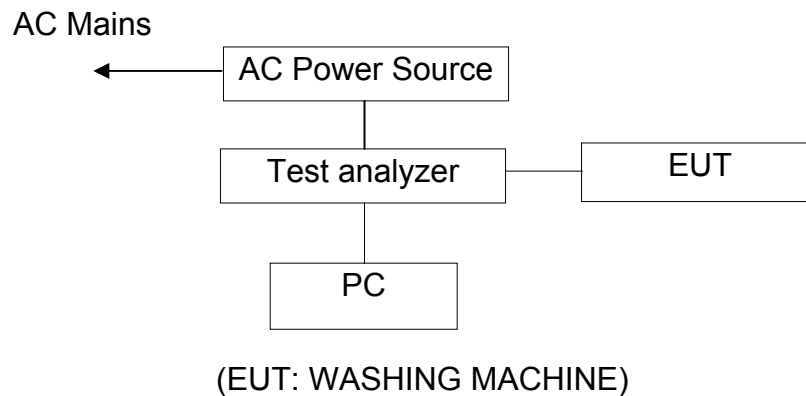
Voltage (Vrms):	230.01	Frequency(Hz):	50.00
I_Peak (Amps):	5.623	I_RMS (Amps):	1.946
I_Fund (Amps):	0.878	Crest Factor:	8.525
Power (Watts):	186.0	Power Factor:	0.913

Harm#	Harmonics	V-rms	Limit V-rms	% of Limit	Status
2		0.156	0.460	34.00	OK
3		0.568	2.069	27.44	OK
4		0.049	0.460	10.58	OK
5		0.075	0.920	8.17	OK
6		0.062	0.460	13.42	OK
7		0.038	0.690	5.48	OK
8		0.038	0.460	8.31	OK
9		0.022	0.460	4.84	OK
1	0	0.021	0.460	4.61	OK
1	1	0.022	0.230	9.59	OK
1	2	0.020	0.230	8.55	OK
1	3	0.019	0.230	8.10	OK
1	4	0.009	0.230	3.72	OK
1	5	0.014	0.230	6.08	OK
1	6	0.012	0.230	5.10	OK
1	7	0.017	0.230	7.44	OK
1	8	0.016	0.230	7.08	OK
1	9	0.010	0.230	4.42	OK
2	0	0.015	0.230	6.32	OK
2	1	0.007	0.230	3.25	OK
2	2	0.010	0.230	4.27	OK
2	3	0.010	0.230	4.34	OK
2	4	0.006	0.230	2.48	OK
2	5	0.011	0.230	4.58	OK
2	6	0.010	0.230	4.29	OK
2	7	0.008	0.230	3.34	OK
2	8	0.008	0.230	3.31	OK
2	9	0.007	0.230	3.03	OK
3	0	0.007	0.230	3.16	OK
3	1	0.005	0.230	2.29	OK
3	2	0.006	0.230	2.79	OK
3	3	0.006	0.230	2.69	OK
3	4	0.003	0.230	1.32	OK
3	5	0.003	0.230	1.50	OK
3	6	0.003	0.230	1.30	OK
3	7	0.004	0.230	1.76	OK
3	8	0.003	0.230	1.19	OK
3	9	0.004	0.230	1.62	OK
4	0	0.005	0.230	2.21	OK

8. VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

8.1. Block Diagram of Test Setup

8.1.1. For On mode



8.2. Measuring Standard

EN 61000-3-3: 2013

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 test mode (On) and measure it.

8.4. Measuring Results

PASS.

Please see the following page.

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

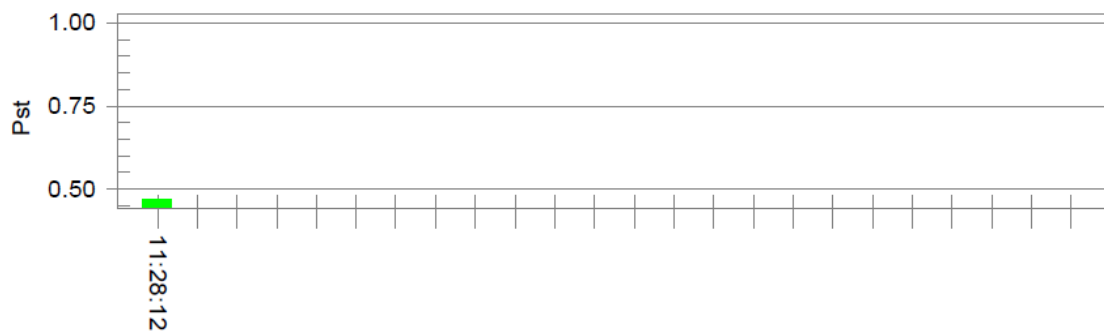
EUT: WASHING MACHINE M/N:XPB68-2008 Tested by: Frank
 Test category: All parameters (European limits) Test Margin: 100
 Test date: 2016/6/10 Start time: 11:17:42 End time: 11:28:14
 Test duration (min): 10 Data file name: F-000092.cts_data
 Comment: On Report NO.:ATE20161094
 Manufacturer: SANDIE

Test Result: Pass

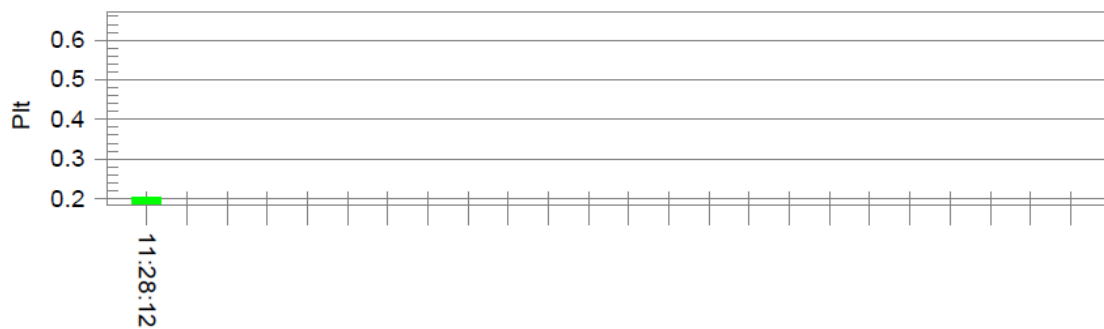
Status: Test Completed

Pst; and limit line

European Limits



Plt and limit line



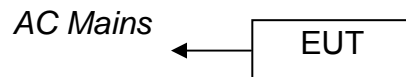
Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.62	Test limit (%):	N/A	N/A
Highest dt (%):	0.80	Test limit (mS):	500.0	Pass
T-max (mS):	0	Test limit (%):	3.30	Pass
Highest dc (%):	0.00	Test limit (%):	4.00	Pass
Highest dmax (%):	0.78	Test limit:	1.000	Pass
Highest Pst (10 min. period):	0.470	Test limit:	0.650	Pass
Highest Plt (2 hr. period):	0.205			

9. RF FIELD STRENGTH SUSCEPTIBILITY TEST

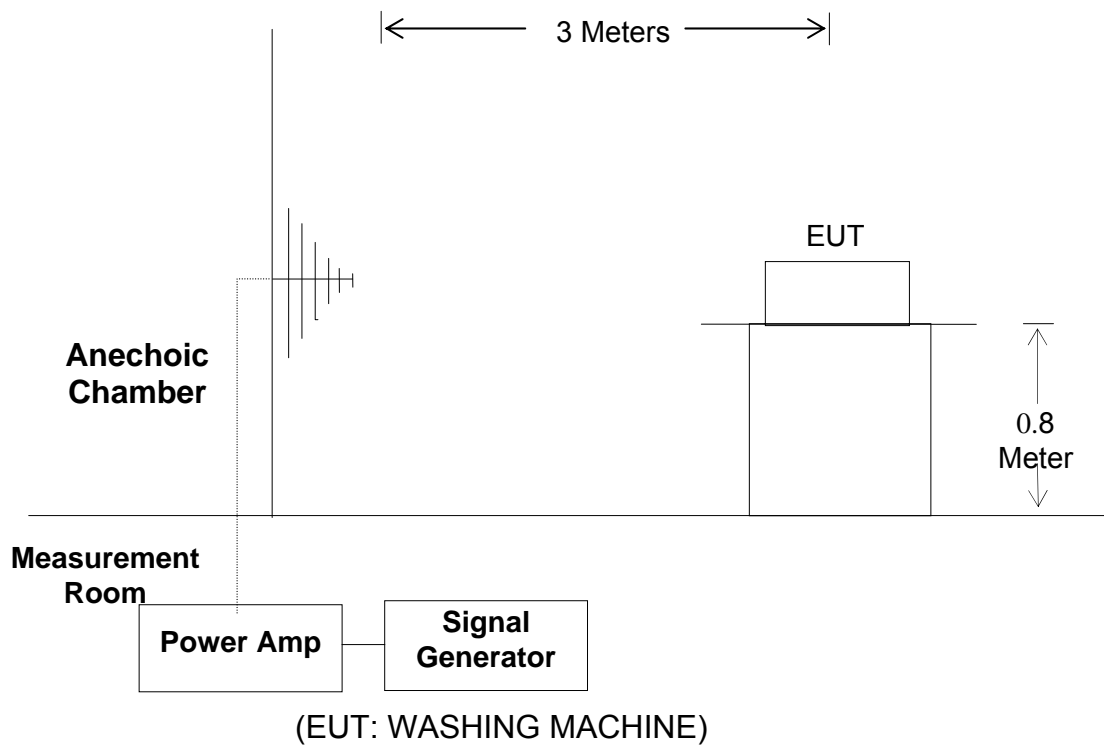
9.1. Block Diagram of Test

9.1.1. Block diagram of connection between the EUT and simulators



(EUT: WASHING MACHINE)

9.1.2. Block diagram of R/S test setup



9.2. Test Standard

EN 55014-2: 1997 + A1: 2001 + A2: 2008
(IEC 61000-4-3: 2010, Severity Level: 2, 3V/m)

9.3. Severity Levels and Performance Criterion

9.3.1. Severity Levels

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

9.3.2. Performance Criterion: A

9.4. Manufacturer

The configuration of the EUT is same as Section 4.4.

9.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.5 except the test setup replaced as Section 9.1.

9.6. Test Procedure

The EUT are placed on a table, which is 0.1 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are 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 CCD camera is used to monitor its screen.

All the scanning conditions are as following:

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

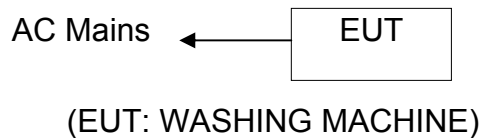
9.7. Test Results

N/A

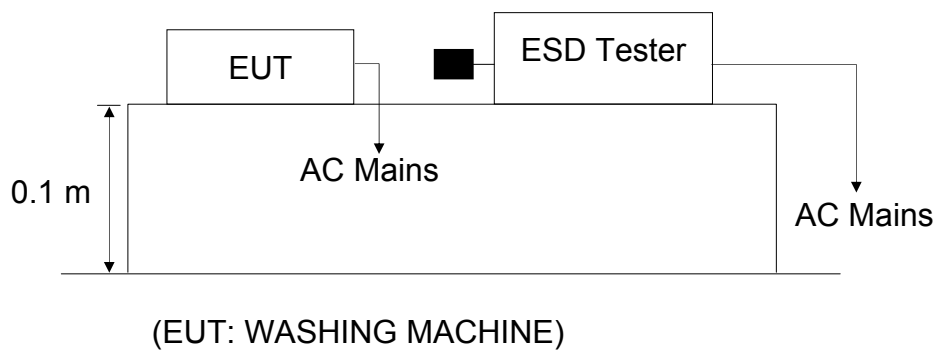
10.ELECTROSTATIC DISCHARGE IMMUNITY TEST

10.1.Block Diagram of Test Setup

10.1.1.For On mode



10.1.2.ESD Test Setup



10.2.Test Standard

EN 55014-2: 1997 + A1: 2001 + A2: 2008

(IEC61000-4-2: 2008

Severity Level: 3 / Air Discharge: $\pm 8\text{kV}$, Level: 2 / Contact Discharge: $\pm 4\text{kV}$)

Testing shall also be satisfied at the lower levels

10.3. Severity Levels and Performance Criterion

10.3.1. 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

10.3.2. Performance Criterion : **B**

10.4. EUT Configuration

10.4.1. WASHING MACHINE EUT)

Model No.: XPB68-2008

Serial No.: N/A

Manufacturer: Cixi Sandie Electrical Appliance Co., Ltd.

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 modes (On) and measure it.

10.6. Test Procedure

10.6.1. 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 20 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

10.6.2. Contact Discharge

All the procedure shall be same as Section 9.6.1 except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

10.6.3. 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.

10.6.4. 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 * 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.

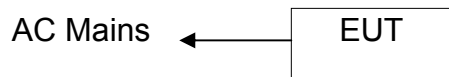
10.7. Test Results

N/A

11. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

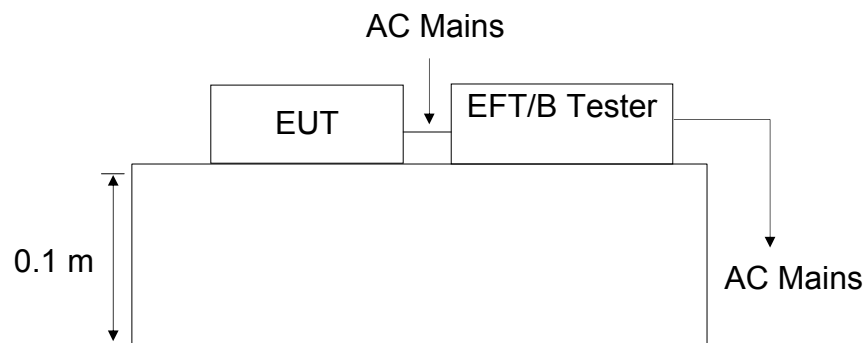
11.1. Block Diagram of Test Setup

11.1.1. For On mode



(EUT: WASHING MACHINE)

11.1.2. Block Diagram of Test Setup



(EUT: WASHING MACHINE)

11.2. Test Standard

EN 55014-2: 1997 + A1: 2001 + A2: 2008
(IEC61000-4-4: 2011 Severity Level, 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.	0.50 kV	0.25 kV
2.	1.0 0kV	0.50 kV
3.	2 .00kV	1 .00kV
4.	4 .00kV	2.00 kV
X	Special	Special

11.3.2. Performance Criterion : **B**

11.4. EUT Configuration

11.4.1. WASHING MACHINE(EUT)

Model No.: XPB68-2008

Serial No.: N/A

Manufacturer: Cixi Sandie Electrical Appliance Co., Ltd.

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 modes (On) and measure it.

11.6. Test Procedure

The EUT is put on the table, which is 0.1 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.

11.6.1. 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.

11.6.2. For signal lines and control lines ports:

It's unnecessary to test.

11.6.3. For DC output line ports:

It's unnecessary to test.

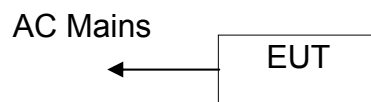
11.7. Test Result

N/A

12.SURGE IMMUNITY TEST

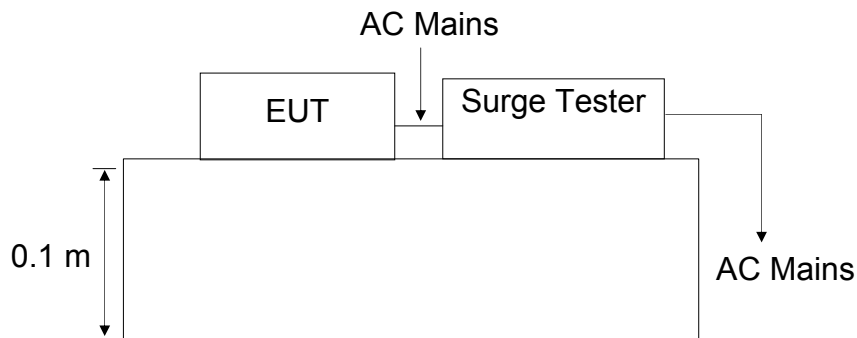
12.1.Block Diagram of Test Setup

12.1.1.Block Diagram of the EUT



(EUT: WASHING MACHINE)

12.1.2.Surge Test Setup



(EUT: WASHING MACHINE)

12.2.Test Standard

EN 55014-2: 1997 + A1: 2001 + A2: 2008
(IEC61000-4-5: 2014, Severity Level: Level 2, 1.0kV)
Testing shall also be satisfied at the lower levels

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
X	Special

12.3.2.Performance Criterion : **B**

12.4.EUT Configuration

The configuration of EUT is listed in Section 9.4.

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 modes (On) and measure it.

12.6.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.

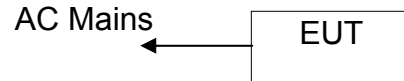
12.7.Test Result

N/A.

13. INJECTED CURRENTS SUSCEPTIBILITY TEST

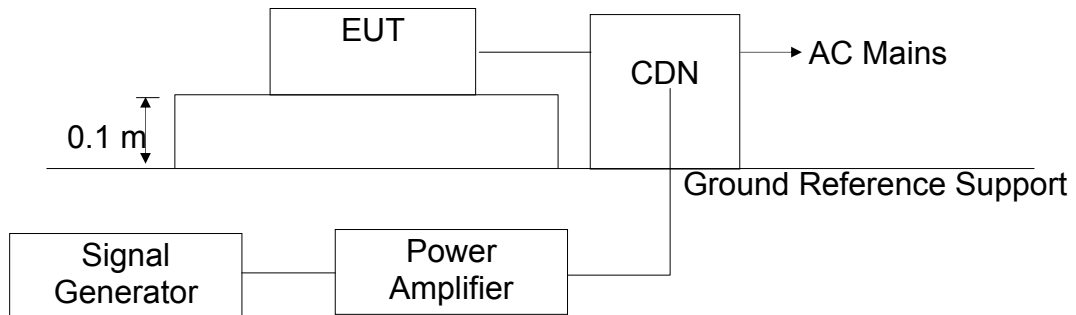
13.1. Block Diagram of Test Setup

13.1.1. Block Diagram of the EUT



(EUT: WASHING MACHINE)

13.1.2. Block Diagram of Test Setup



(EUT: WASHING MACHINE)

13.2. Test Standard

EN 55014-2: 1997 + A1: 2001 + A2: 2008

(IEC61000-4-6: 2006, Severity Level 2: 3V (rms), 0.15MHz—230MHz)

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.EUT Configuration

The configuration of EUT is listed in Section 9.4.

13.5.Operating Condition of EUT

13.5.1.Setup the EUT as shown in Section 13.1.

13.5.2.Turn on the power of all equipments.

13.5.3.Let the EUT work in test modes (On) and measure it.

13.6.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 230MHz 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.

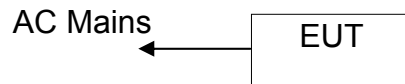
13.7.Test Results

N/A.

14.VOLTAGE DIPS AND INTERRUPTIONS TEST

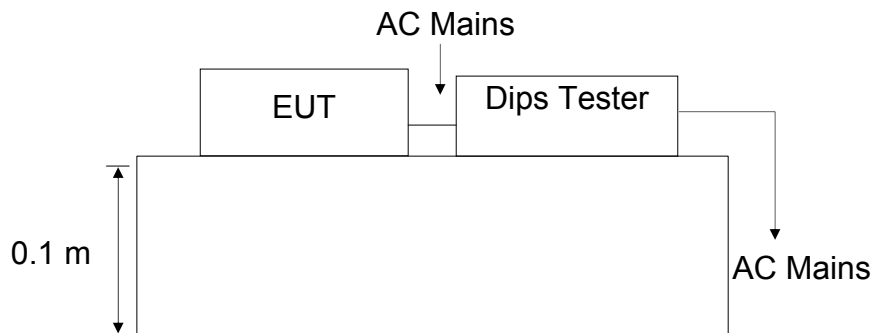
14.1.Block Diagram of Test Setup

14.1.1.Block Diagram of the EUT



(EUT: WASHING MACHINE)

14.1.2.Dips Test Setup



(EUT: WASHING MACHINE)

14.2.Test Standard

EN 55014-2: 1997 + A1: 2001 + A2: 2008 (IEC61000-4-11: 2004)

14.3.Severity Levels and Performance Criterion

14.3.1.Severity level

Test Level %U _T	Voltage dip in %U _T	Duration (in period)(50Hz)	Duration (in period)(60Hz)
0	100	0.5 1	0.5 1
40	60	10	12
70	30	25	30
80	20	250	300

14.3.2.Performance Criterion : C

14.4.EUT Configuration

The configuration of EUT is listed in Section 9.4.

14.5.Operating Condition of EUT

14.5.1.Setup the EUT as shown in Section 14.1.

14.5.2.Turn on the power of all equipments.

14.5.3.Let the EUT work in test modes (On) and measure it.

14.6.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 14.1.2.
- 2) The interruption is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

14.7.Test Result

N/A.

15.PHOTOGRAPHS

15.1.Photos of Power Line Conducted Emission Measurement



15.2.Photo of Disturbance Power Measurement



15.3.Photo of Harmonic / Flicker Measurement



15.4.Photo of EUT





