EMC Test Report

Prepared for:	Washroom Wizard Limited
Product Name:	ECO Breeze Air fragrance / filtration unit
Model Number:	None stated
Test Standards:	EN 55014-1:2006 + A1:2009 + A2:2011 EN 55014-2:1997 + A1:2001 + A2:2008 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2008

2667

Tested at: Kiwa Blackwood Compliance Laboratories

Unit 8 Woodfieldside Business Park
Pontllanfraith
Blackwood
NP12 2DG
United Kingdom
Tel: +44 (0) 1495 229219
Web: www.kiwa.co.uk

Test Report Issue Date: 26 February 2016

Tested by: G.Baker — Ginnie Baker
I am the author of this document

Approved by: — Chris Jefferies
I am approving this document

Contents

Section 1: Overview

Section 1.1: General

This test report contains details of testing carried out on sample(s) submitted to Kiwa Blackwood Compliance Laboratories for an assessment against Electromagnetic Compatibility (EMC) standards in accordance with an agreed Test Plan.

This test report relates only to the specific items detailed in Section 1.3 and Section 2 as Equipment Under Test (EUT). The results given in this report relate only to the tests, configurations, operation modes and arrangements of the EUT as defined within this report.

The results contained in this test report do not relate to any Auxiliary Equipment (AE) which has been used to exercise, monitor and/or provide suitable loading for the EUT. AE, where applicable, is also detailed in Section 2.

Deviations from, additions to, or exclusions from the standard test method and, where applicable, information on specific test conditions, or where tests are not covered by our UKAS Accreditation schedule, are stated in the Results Summary Table in Section 3.1.

Fully testing to a harmonised standards as listed in the Official Journal is the equivalent of the *EMC Assessment* and this gives a *presumption of conformity* to the EMC Directive 2004/108/EC. The customer is advised to keep up to date with changes to standards in the Official Journal which may affect the compliance of the product.

Opinions and interpretations where given in this test report are outside of the scope of our UKAS Accreditation.

Section 1.2: Customer Details

This test report was prepared for:

Washroom Wizard Limited
6B Park Way
Porterswood
St Albans
AL3 6PA

Section 1.3: Equipment Under Test (EUT)

The equipment under test was an air fragrance and filtration unit for use in commercial washrooms and toilets.

Section 2: Details relating to the Equipment Under Test

Test Start Date: 01 December 2015
Test Completed Date: 01 December 2015

Section 2.1: Equipment Under Test (EUT)

Product Name:	ECO Breeze
Manufacturer:	Washroom Wizard Limited
Description:	Air fragrance / filtration unit
Model No:	None stated
Part No:	None stated
Serial No:	None stated
Build State:	Pre-production sample
Condition:	Good / working
Software Version:	None stated

Section 2.2: Auxiliary Equipment (AE)

No auxiliary equipment was used when testing the EUT.

Section 2.3: Configuration Diagram/Photograph of EUT

Section 3: Test Results Summary

Section 3.1: Test Results Summary Table

Test:	Standard:	Test Level/Frequency Range:	Mod.:	Result:
Mains Port Conducted Emissions	EN 55014-1:2006 + A1:2009 + A2:2011	Household and similar products	0	Pass
Discontinuous Conducted Emissions	EN 55014-1:2006 + A1:2009 + A2:2011	Household and similar products	0	Pass
Disturbance Power Emissions	EN 55014-1:2006 + A1:2009 + A2:2011	Household and similar products	0	Pass
Radiated Emissions	EN 55014-1:2006 + A1:2009 + A2:2011	Household and similar products	N/A	N/A
Mains Harmonics	EN 61000-3-2:2006 + A1:2009 + A2:2009	Class A	0	Pass
Voltage Fluctuations	EN 61000-3-3:2008	Pst/dc(%)/dmax(%)/d(t)	0	Pass
Electrostatic Discharge	EN 55014-2:1997 + A1:2001 + A2:2008	±4.0kV Contact/±8.0kV Air	0	Pass
EFT/Bursts	EN 55014-2:1997 + A1:2001 + A2:2008	±1.0kV, Live, Neutral and Earth	0	Pass
Surge Immunity	EN 55014-2:1997 + A1:2001 + A2:2008	±1.0kV Line to Line, ±2.0kV Line to Earth	0	Pass
Conducted RF Immunity	EN 55014-2:1997 + A1:2001 + A2:2008	150kHz to 230MHz, 3V 80% AM 1kHz	0	Pass
Dips & Interruptions	EN 55014-2:1997 + A1:2001 + A2:2008	>95%/60%/30%	0	Pass

All of the above tests are included on the Kiwa Blackwood UKAS accreditation schedule (No. 2667).

Mod. (modification status):

0 The EUT was tested as received, i.e. without any modifications.

Section 3.2: Measurement Uncertainty

ISO/IEC 17025:2005 “General requirements for the competence of testing and calibration laboratories” requires measurement uncertainty to be estimated for all testing done.

Measurements Uncertainty for conducted and radiated emissions has been calculated and applied in accordance with CISPR 16-4-2:2003. Measurement Uncertainty has been calculated for all other tests in accordance with UKAS document LAB 34 Edition 1:2002.

With regard to emissions testing Ulab meets Ucispr meaning that a simple pass or fail is reported.

With regard to Radiated Field Immunity and Conducted RF Immunity testing the test level generation uncertainty has not been added to the test level. This is in line with current Cenelec interpretation sheets on the two basic standards EN 61000-4-3 and EN 61000-4-6.

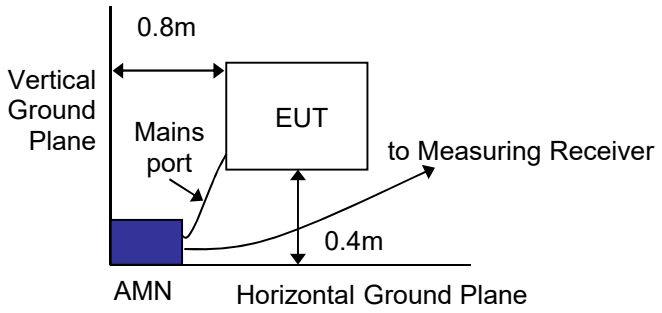
With regard to other Immunity tests the calibration parameters of the test equipment meet the basic standard requirement for tolerances even when extended by the calibration uncertainty.

Section 4: Formal Test Results

Section 4.1: Mains Port Conducted Emissions

Test Standard: EN 55014-1:2006 + A1:2009 + A2:2011
Frequency Range: 150 kHz to 30 MHz
Operation Mode: The fan was operating during the test.

Mains Port Conducted Emissions



Test Equipment Used:

8501	EMCO 3825/2 Line Impedance Stabilisation Network
8627	Telegartner J01006A0836 10dB Attenuator
8761	10m BNC cable
8659	50Ω Termination
8513	HP8566B Spectrum Analyser System
8636	HP Conducted Emissions Software
8525	Ladybird Nightlight
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Below are the top recorded worst case mains port conducted emissions:

Mains Voltage (Vac):	Terminal:	Detector:	Frequency (MHz):	Level (dB(μV)):	Limit (dB(μV)):	Margin (dB):	Result:
230	N	PK	0.15 - 30	---	QP	>-10	Pass
230	L	PK	0.15 - 30	---	QP	>-10	Pass
230	N	AV	0.5846	25.3	46.0	-20.7	Pass
230	N	AV	0.5176	25	46.0	-21	Pass
230	N	AV	0.5041	24.3	46.0	-21.7	Pass
230	N	AV	0.4935	23.7	46.1	-22.4	Pass
230	N	AV	0.6035	23.3	46.0	-22.7	Pass
230	L	AV	0.5846	22.5	46.0	-23.5	Pass

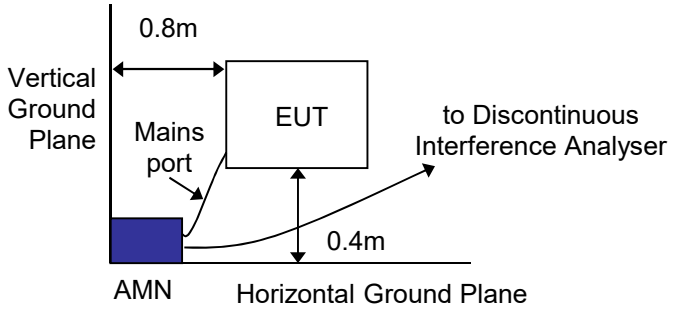
Additional Comments:

None

Section 4.2: Discontinuous Conducted Emissions

Test Standard: EN 55014-1:2006 + A1:2009 + A2:2011
Frequency Range: 150 kHz to 30 MHz
Operation Mode: The fan was turned on and off, and was operating during the test.

Discontinuous Conducted Emissions



Test Equipment Used:

8501	EMCO 3825/2 Line Impedance Stabilisation Network
8627	Telegartner J01006A0836 10dB Attenuator
8761	10m BNC cable
8659	50Ω Termination
8513	HP8566B Spectrum Analyser System
8636	HP Conducted Emissions Software
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Frequency (MHz):	Detector:	Limit, L (dB(μV)):	No of clicks over Limit, L:	Time (min):	Relaxed Limit, Lq (dB(μV)):	No of clicks over Lq:	Result:
0.15	Quasi-Peak	---	---	---	---	---	Pass
0.5	Quasi-Peak	---	---	---	---	---	Pass
1.4	Quasi-Peak	--	---	---	---	---	Pass
30	Quasi-Peak	---	---	---	---	---	Pass

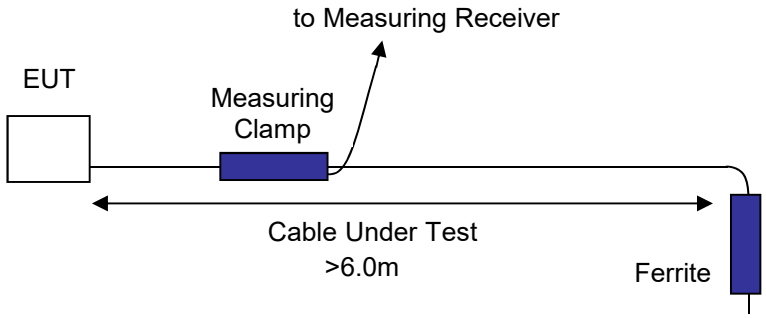
Additional Comments:

Discontinuous conducted emissions were manually observed at 0.15 MHz and 0.5 MHz. They were observed as not exceeding the continuous conducted emissions limits.

Section 4.3: Disturbance Power Emissions

Test Standard: EN 55014-1:2006 + A1:2009 + A2:2011
Frequency Range: 30 MHz to 300 MHz
Operation Mode: The fan was operating during the test.

Disturbance Power Measurement Set Up



Test Equipment Used:

8651	Chase CEC8110 Ferrite Absorbing Clamp
8651A	Telegartner J01006A0835 6dB Attenuator
8651B	10m BNC cable
8512	HP8568B Spectrum Analyser System
8637	HP Radiated Emissions Pre-scan Software
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Below are the top recorded worst case disturbance power emissions:

Mains Voltage (Vac):	Cable Under Test:	Detector:	Frequency (MHz):	Level (dBpW):	Limit (dBpW):	Margin (dB):	Result:
230	Mains	AV	34.60	27.9	35.2	-7.3	Pass
230	Mains	AV	34.84	27.9	35.2	-7.3	Pass
230	Mains	AV	35.00	27.9	35.2	-7.3	Pass
230	Mains	AV	34.36	27.8	35.2	-7.4	Pass
230	Mains	AV	35.98	27.8	35.2	-7.4	Pass
230	Mains	QP	35.08	33.5	45.2	-11.7	Pass

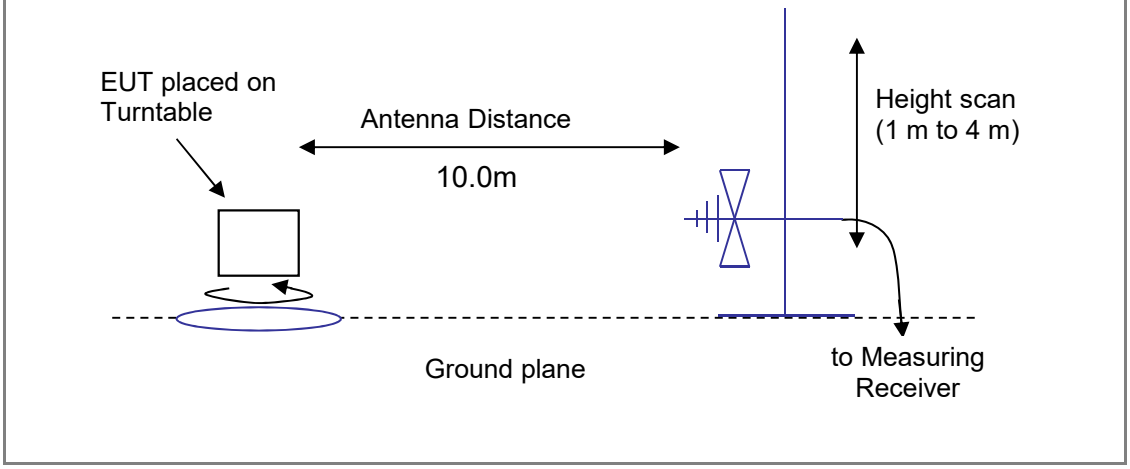
Additional Comments:

None

Section 4.4: Radiated Emissions

Test Standard: EN 55014-1:2006 + A1:2009 + A2:2011
Frequency Range: 30 MHz to 1000 MHz
Operation Mode: N/A

Maximisation of Radiated Emissions on OATS



Test Equipment Used:

None

Test Results:

Below are the top recorded worst case radiated emissions:

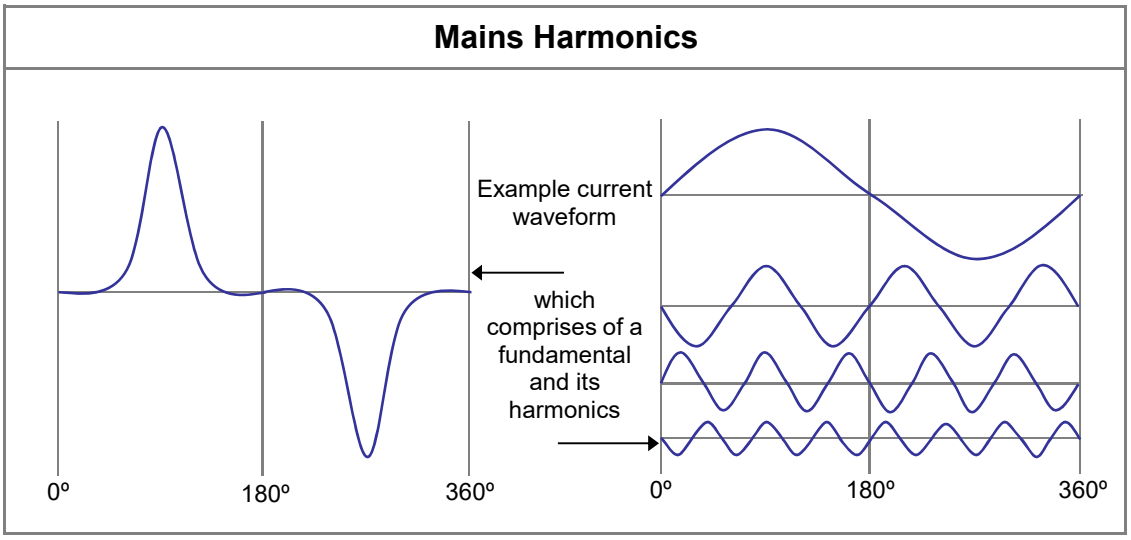
Antenna Polarisation:	Antenna Distance (m):	Detector:	Frequency (MHz):	Level (dB(µV/m)):	Limit (dB(µV/m):	Margin (dB):	Result:
V	---	---	---	---	---	---	N/A
H	---	---	---	---	---	---	N/A

Additional Comments:

The EUT had no clock frequencies >30MHz and meets the requirements of clause 4.1.2.3.2 and figure 10 of EN 55014-1:2006 + A1:2009, therefore this test is not required.

Section 4.5: Mains Harmonics

Test Standard:	EN 61000-3-2:2006 + A1:2009 + A2:2009
Class:	A
Test Method:	Assessed by fluctuating harmonics over 2.5 minutes
Frequency Range:	100 Hz to 2.0 kHz
Operation Mode:	The fan was turned on at the software prompt and was operating throughout the test.
Mains Voltage:	230Vac



Test Equipment Used:

8675	Schaffner NSG1007-5 InterHarmonics Power Source
8562	Voltech IEC555 Reference Impedance Network (short-circuited)
8693	Voltech PM6000 Power Analyser
8688	IEC1000-3 Software Release 3.11.07

Test Results:

The test was performed more than once in order to obtain a repeatability of the result within ±5%.

Test Observation Period:	Power Consumption (W):	Repeatability achieved (Y/N):	Result:
2.5 minutes	3.5	Yes	Pass

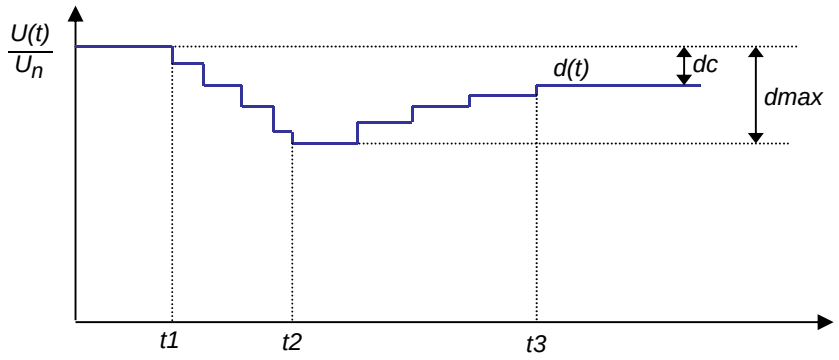
Additional Comments:

None

Section 4.6: Voltage Fluctuations

Test Standard: EN 61000-3-3:2008
Operation Mode: The fan was turned on at the software prompt, was turned off and on during the test, and was operating for the remainder of the test.
Mains Voltage: 230Vac

Relative Voltage Change Characteristic



Test Equipment Used:

8675	Schaffner NSG1007-5 InterHarmonics Power Source
8562	Voltech IEC555 Reference Impedance Network (open-circuited)
8563	Voltech PM6000 Power Analyser
8688	IEC1000-3 Software Release 3.11.07

Test Results:

Parameter measured:	Measured level:	Limit:	Result:
dc	0.002	3.3	Pass
dmax	0.186	4	Pass
d(t)	0	500	Pass
Pst	0.106	1	Pass

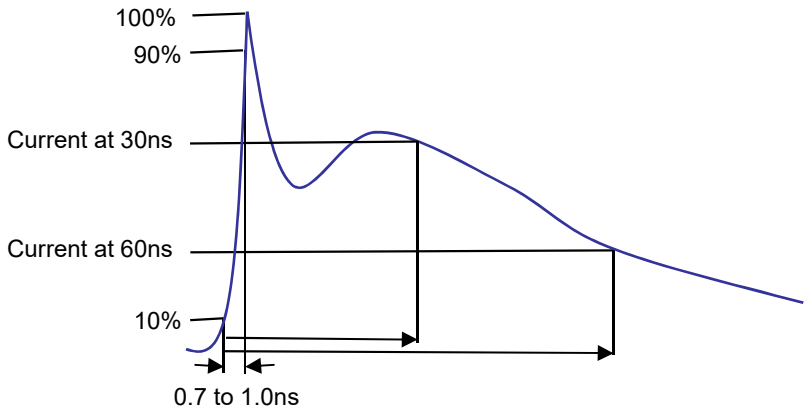
Additional Comments:

None

Section 4.7: Electrostatic Discharge

Test Standard:	EN 55014-2:1997 + A1:2001 + A2:2008
Basic Standard:	EN 61000-4-2:1995 + A1:1998 + A2:2001
Operation Mode:	The fan was operating during the test.
Observing:	The continued operation of the fan and illumination of the LED were monitored during the test.
Performance Criteria:	B
Temperature (C):	21.3
Relative Humidity (%):	46
Atmospheric Pressure (mb):	1005

Electrostatic Discharge Current Waveform



Test Equipment Used:

8709	Teseq NSG434 ESD Simulator
-	Horizontal Coupling Plane
-	Vertical Coupling Plane
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Contact or Air Discharge?	Applied to:	+2kV	-2kV	+4kV	-4kV	+6kV	-6kV	+8kV	-8kV	Result:
Contact	HCP	N/A	N/A	OK	OK	N/A	N/A	N/A	N/A	Pass
Contact	VCP	N/A	N/A	OK	OK	N/A	N/A	N/A	N/A	Pass
Air	Top grill	N/A	N/A	N/A	N/A	N/A	N/A	OK	OK	Pass
Air	Front grill	N/A	N/A	N/A	N/A	N/A	N/A	OK	OK	Pass
Air	LED	N/A	N/A	N/A	N/A	N/A	N/A	OK	OK	Pass
Air	Movement Sensor	N/A	N/A	N/A	N/A	N/A	N/A	OK	OK	Pass
Air	top side hole	N/A	N/A	N/A	N/A	N/A	N/A	OK	OK	Pass
Air	bottom side hole	N/A	N/A	N/A	N/A	N/A	N/A	OK	OK	Pass

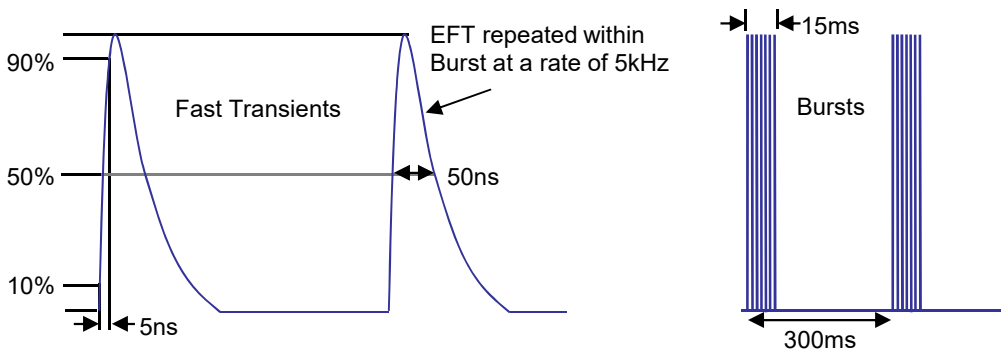
Additional Comments:

None

Section 4.8: EFT/Bursts

Test Standard:	EN 55014-2:1997 + A1:2001 + A2:2008
Basic Standard:	EN 61000-4-4:2004
Operation Mode:	The fan was operating during the test.
Observing:	The continued operation of the fan and illumination of the LED were monitored during the test.
Test Duration:	2.0 minutes
Performance Criteria:	B
Temperature (C):	21
Relative Humidity (%):	43
Atmospheric Pressure (mb):	1005

EFT/Bursts Voltage Waveform



Test Equipment Used:

8555	Schaffner NSG2025 Transient Generator
8638	Schaffner WIN2025 EFT/Bursts Software
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Port Under Test:	+0.5kV	-0.5kV	+1kV	-1kV	+2kV	-2kV	Result:
Live	N/A	N/A	OK	OK	N/A	N/A	Pass
Neutral	N/A	N/A	OK	OK	N/A	N/A	Pass
Earth	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LN	N/A	N/A	OK	OK	N/A	N/A	Pass

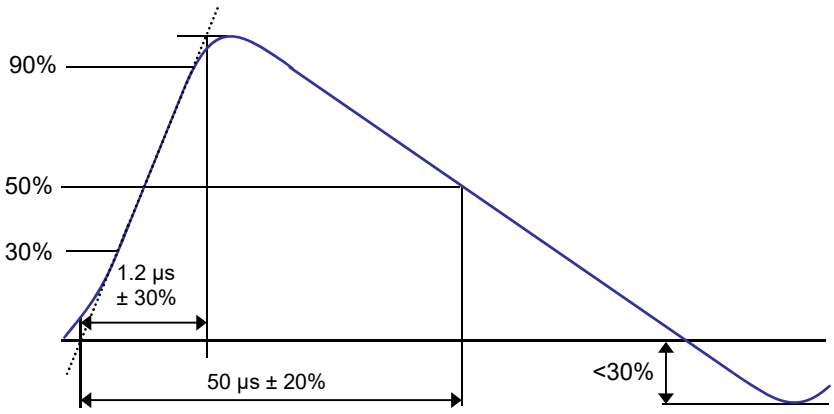
Additional Comments:

None

Section 4.9: Surge Immunity

Test Standard:	EN 55014-2:1997 + A1:2001 + A2:2008
Basic Standard:	EN 61000-4-5:2006
Operation Mode:	The fan was operating during the test.
Observing:	The continued operation of the fan and illumination of the LED were monitored during the test.
Performance Criteria:	B
Temperature (C):	22
Relative Humidity (%):	45
Atmospheric Pressure (mb):	1006

Surge Open Circuit Voltage Waveform



Test Equipment Used:

8746	Schaffner Modula 6100 test system
8752	Schaffner Modula software V2.7
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Applied:	φ Angle:	R	C	+0.5kV	-0.5kV	+1kV	-1kV	+2kV	-2kV	Result:
L-N	0	2 Ω	18 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L-N	90	2 Ω	18 µF	N/A	N/A	OK	N/A	N/A	N/A	Pass
L-N	270	2 Ω	18 µF	N/A	N/A	N/A	OK	N/A	N/A	Pass
L-E	0	12 Ω	9 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L-E	90	12 Ω	9 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L-E	270	12 Ω	9 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-E	0	12 Ω	9 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-E	90	12 Ω	9 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-E	270	12 Ω	9 µF	N/A	N/A	N/A	N/A	N/A	N/A	N/A

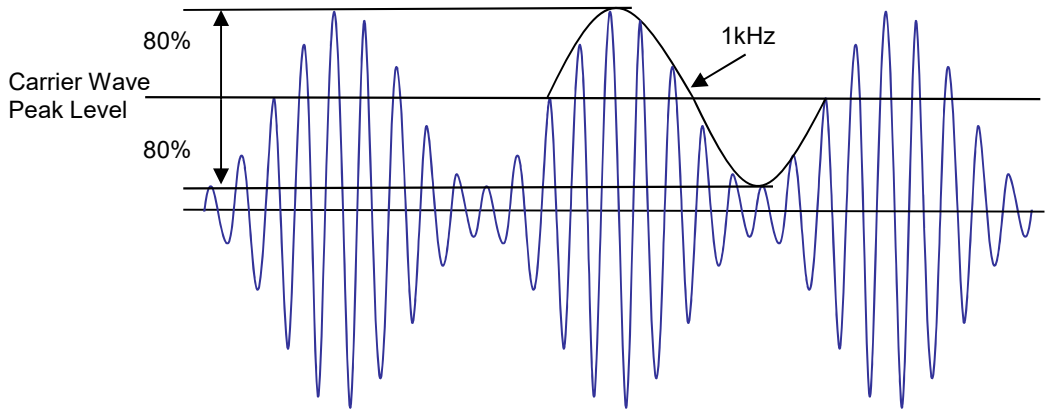
Additional Comments:

None

Section 4.10: Conducted RF Immunity

Test Standard:	EN 55014-2:1997 + A1:2001 + A2:2008
Basic Standard:	EN 61000-4-6:2007 + Corr 2007
Operation Mode:	The fan was operating during the test.
Observing:	The continued operation of the fan and illumination of the LED were monitored during the test.
Frequency Range:	0.15 MHz to 230 MHz
Frequency Step Rate:	1.0 %
Dwell time:	3.0 s
Test Level:	3.0 V (RMS)
Modulation:	80 % Amplitude Modulation with 1.0 kHz sine wave
Performance Criteria:	A
Temperature (C):	21.4
Relative Humidity (%):	43

Amplitude Modulation with 1kHz sinewave at 80% depth



Test Equipment Used:

8527	HP8567A Signal Generator
8531	AR 25A250 RF Amplifier
8652	Bird 25-A-MFB-10 10dB Attenuator
8677	Schaffner CDN-M2-16 Coupling / Decoupling Network
-	Associated Cables
8635	EMC Hire Conducted Immunity Software
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Port Under Test:	RF coupled via:	Observed effect on EUT:	Result:
Mains	M2	No malfunctions observed during the test	Pass

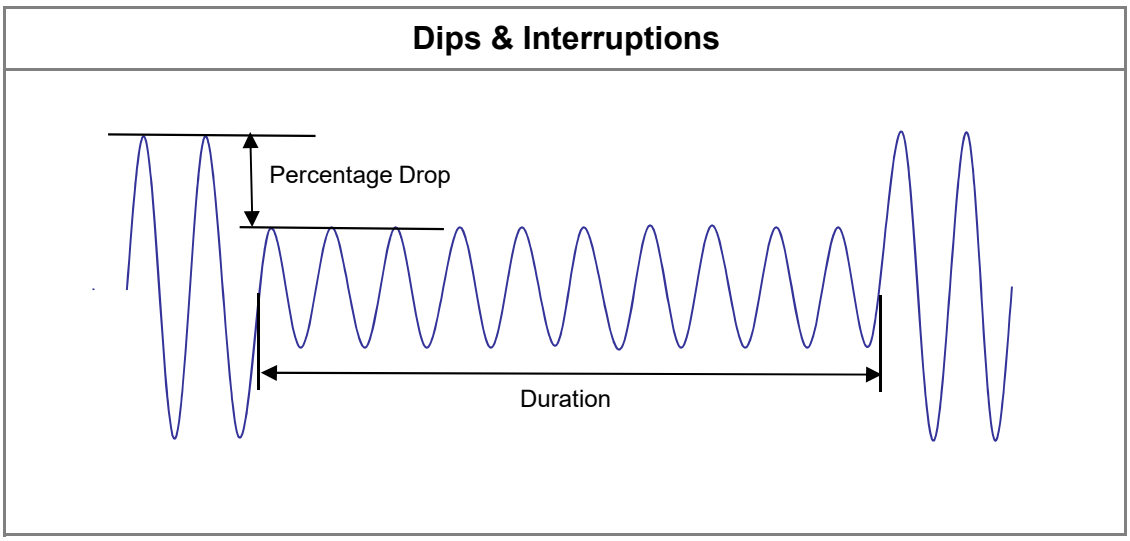
Additional Comments:

None

Section 4.11: Dips & Interruptions

Test Standard:	EN 55014-2:1997 + A1:2001 + A2:2008
Basic Standard:	EN 61000-4-11:2004
Operation Mode:	The fan was operating during the test.
Observing:	The continued operation of the fan and illumination of the LED were monitored during the test.
Mains Voltage:	230Vac
Performance Criteria:	C
Temperature (C):	21.9
Relative Humidity (%):	46
Atmospheric Pressure (mb):	1006

Dips & Interruptions



Test Equipment Used:

8746	Schaffner Modula 6100 test system
8742	Carroll & Meynell 15A Variac
8522	Beckman T100B multimeter
8752	Schaffner Modula software V2.7
8648	Oregon Scientific BAA898HG Environmental Monitor

Test Results:

Percentage Drop:	Duration:	Performance Criteria:	Observed effect on EUT:	Result:
>95	+ve 0.5	C	No malfunctions observed during the test	Pass
>95	-ve 0.5	C	No malfunctions observed during the test	Pass
60	10	C	No malfunctions observed during the test	Pass
30	50	C	No malfunctions observed during the test	Pass

Additional Comments:

None

Section 5: Performance Criteria

Below is the performance criteria as expressed in EN 55014-2 EMC immunity standard.

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 (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

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 (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

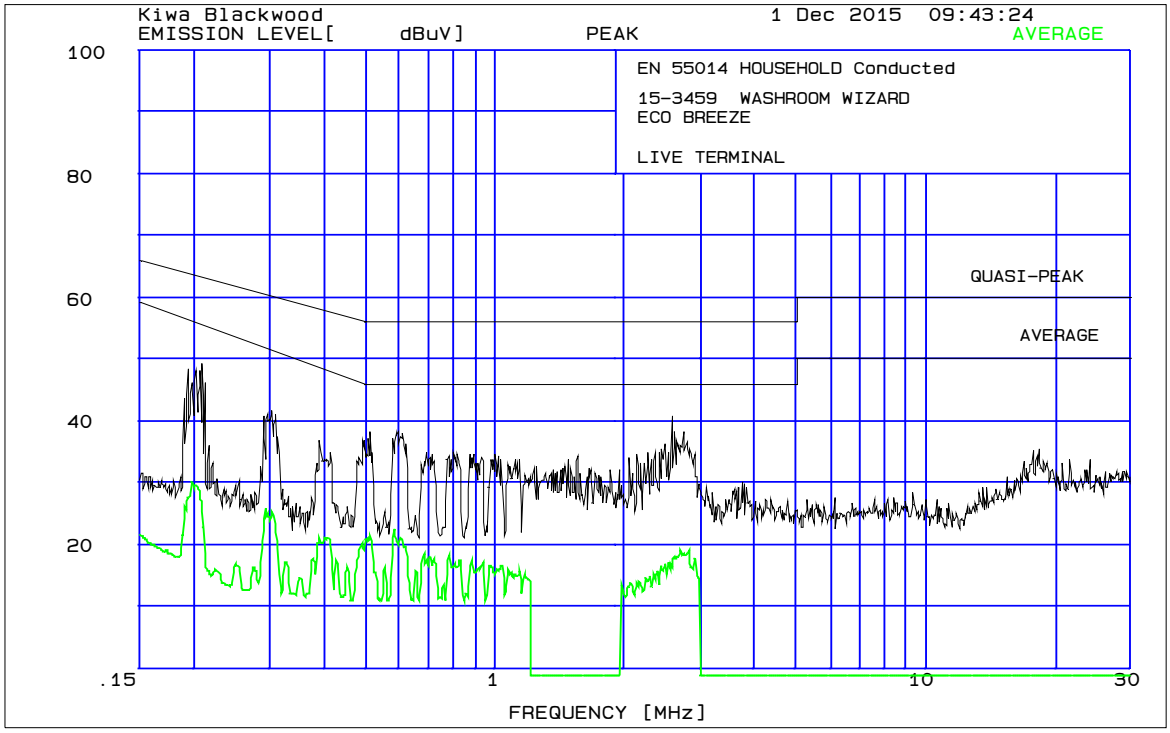
Performance criterion C: Temporary loss of function is allowed, provided the function is self- recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

Section 6: List of Abbreviations

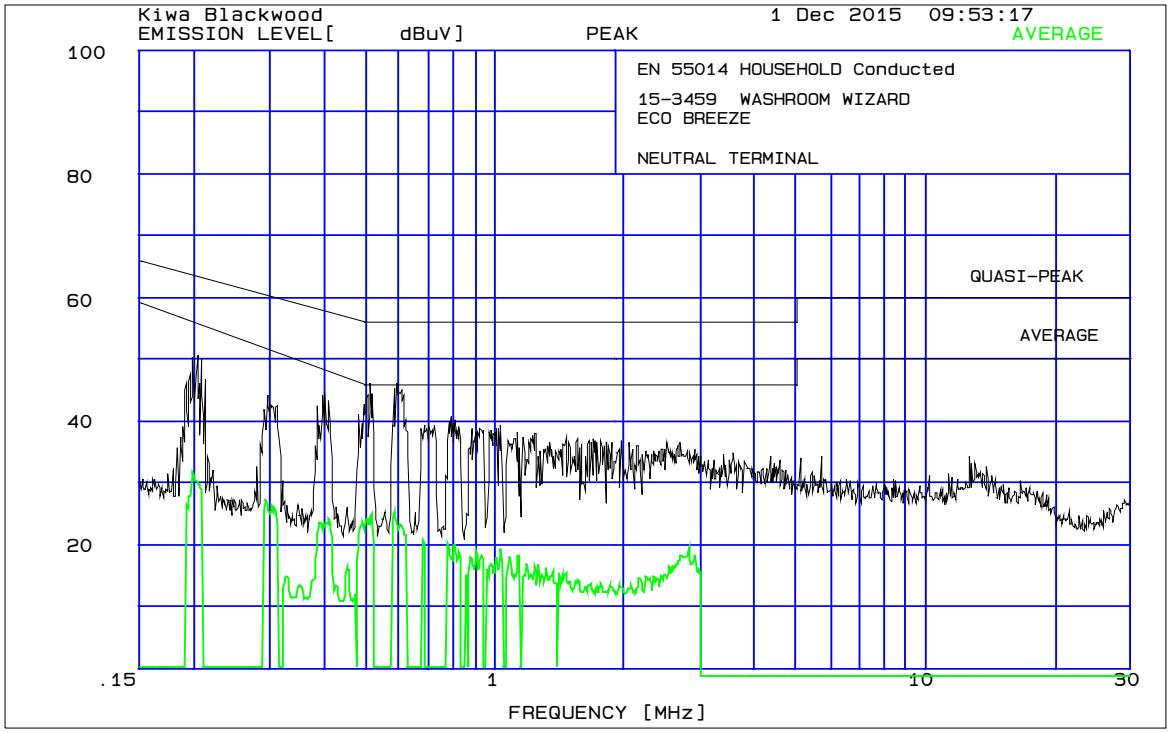
EUT:	Equipment Under Test
AE:	Auxiliary Equipment (i.e. equipment connected to the EUT)
PK:	Peak Measurement Detector
QP:	Quasi-Peak Measurement Detector
AV:	Average Measurement Detector
L:	Live Terminal
N:	Neutral Terminal
E:	Earth Terminal
L-N:	Applied between Live and Neutral terminals
L-E:	Applied between Live and Earth terminals
N-E:	Applied between Neutral and Earth terminals
V:	Vertical Polarisation
H:	Horizontal Polarisation

Annex A: Graphical Results

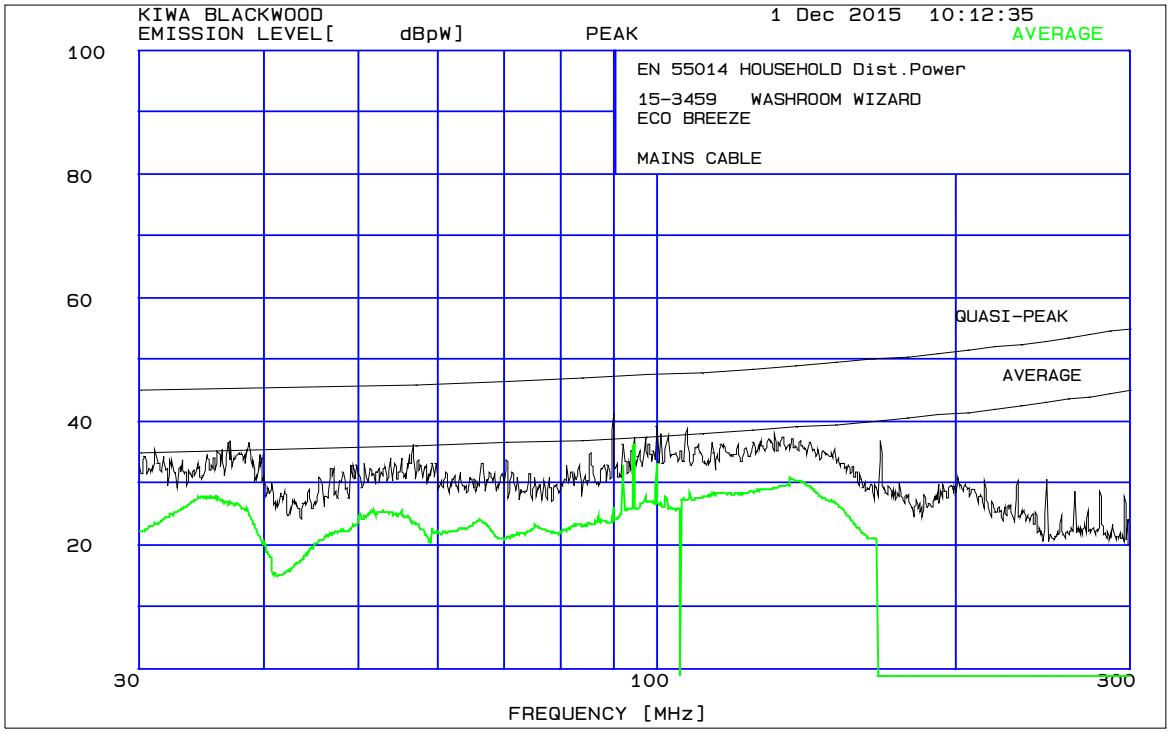
Graph 1: Mains Port Conducted Emissions - Live Terminal



Graph 2: Mains Port Conducted Emissions - Neutral Terminal



Graph 3: Disturbance Power Emissions - Mains Cable



Annex B: Tabular Results

Table 1: Mains Harmonics Results

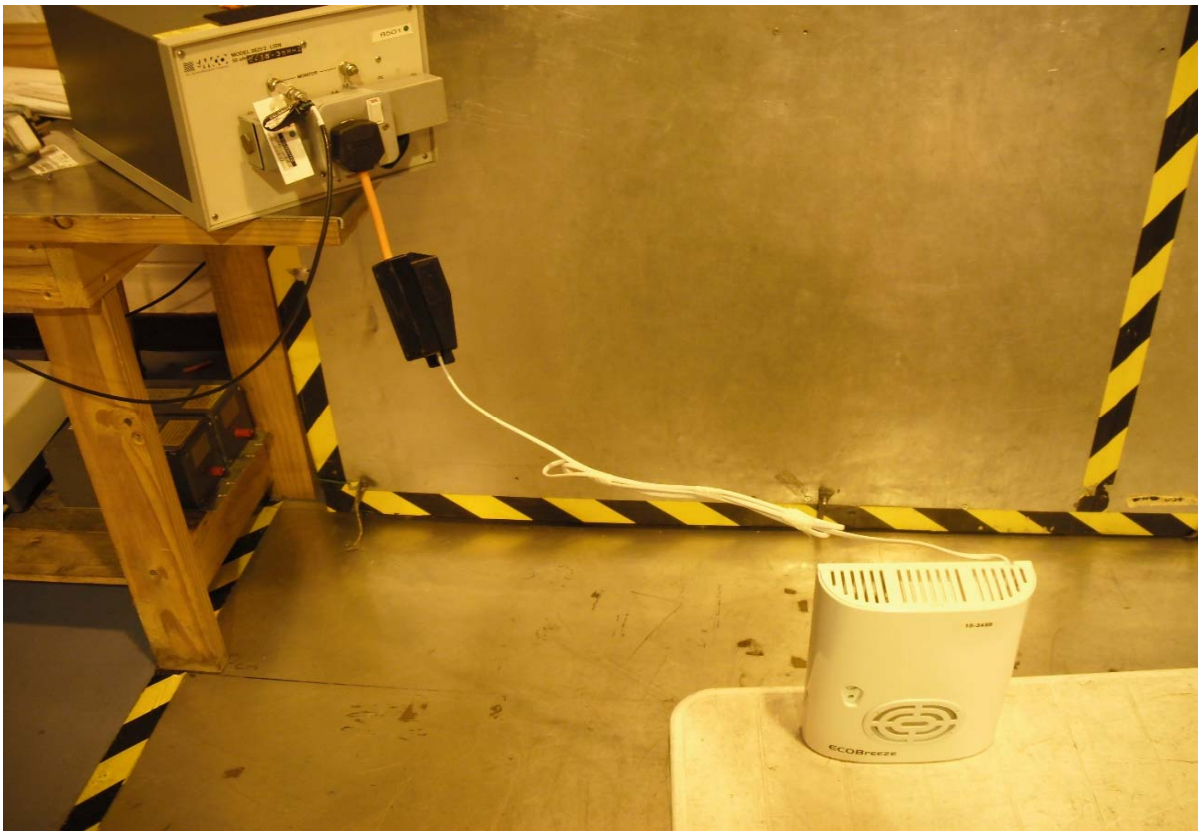
Product:	ECO BREEZE	01 Dec 2015 11:09
Serial no:		Page 1 of 1
Description:		
Result Name:	HARM1	
Voltech IEC61000-3 Windows Software 1.12.05RC1		Test Date: 01 Dec 2015 11:04
Type of Test:	Fluctuating Harmonics Test - Worst Case Table (2006)	
Power Analyzer:	Voltech PM6000 SN: 100006700179 Firmware version: v1.20.06RC4	
	Channel(s):	
	1. SN: 090015501412, 28 Adjusted Date: 14 MAR 2009. 2. SN:None Adjusted Date:None	
	3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
	5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
	Shunt(s):	
	1. SN: 091024300522, 4 Adjusted Date: 16 MAR 2009. 2. SN:None Adjusted Date:None	
	3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None	
	5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None	
AC Source:	Mains / Manual Source	
Overall Result: N/A		

Class	Class A
Class Multiplier	1

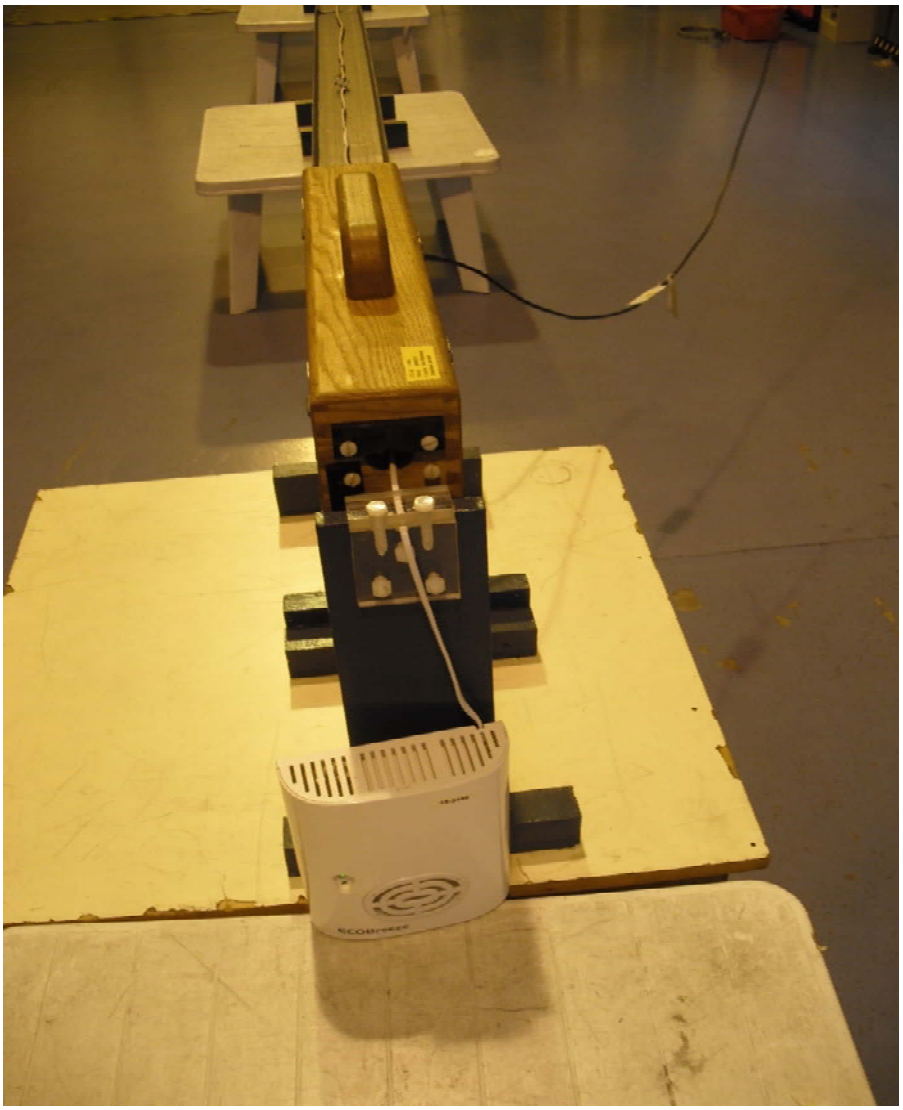
Harm	Limit 1	Limit 2	Average Reading	<L1	<L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1	<L2	Max Reading	<L2	Pass FAIL
2	1.0800A	1.6200A	0.926mA	✓	✓	0.975mA	✓	N/A	3	2.3000A	3.4500A	13.37mA	✓	✓	13.44mA	✓	N/A
4	430.0mA	645.0mA	0.849mA	✓	✓	0.905mA	✓	N/A	5	1.1400A	1.7100A	12.44mA	✓	✓	12.50mA	✓	N/A
6	300.0mA	450.0mA	0.801mA	✓	✓	0.852mA	✓	N/A	7	770.0mA	1.1550A	11.96mA	✓	✓	12.01mA	✓	N/A
8	230.0mA	345.0mA	0.748mA	✓	✓	0.787mA	✓	N/A	9	400.0mA	600.0mA	11.06mA	✓	✓	11.11mA	✓	N/A
10	184.0mA	276.0mA	0.684mA	✓	✓	0.724mA	✓	N/A	11	330.0mA	495.0mA	10.14mA	✓	✓	10.19mA	✓	N/A
12	153.3mA	230.0mA	0.638mA	✓	✓	0.678mA	✓	N/A	13	210.0mA	315.0mA	9.099mA	✓	✓	9.170mA	✓	N/A
14	131.4mA	197.1mA	0.539mA	✓	✓	0.573mA	✓	N/A	15	150.0mA	225.0mA	7.936mA	✓	✓	8.009mA	✓	N/A
16	115.0mA	172.5mA	0.473mA	✓	✓	0.508mA	✓	N/A	17	132.3mA	198.5mA	6.759mA	✓	✓	6.842mA	✓	N/A
18	102.2mA	153.3mA	0.403mA	✓	✓	0.442mA	✓	N/A	19	118.4mA	177.6mA	5.600mA	✓	✓	5.698mA	✓	N/A
20	92.00mA	138.0mA	0.337mA	✓	✓	0.369mA	✓	N/A	21	107.1mA	160.7mA	4.437mA	✓	✓	4.534mA	✓	N/A
22	83.63mA	125.4mA	0.286mA	✓	✓	0.322mA	✓	N/A	23	97.82mA	146.7mA	3.386mA	✓	✓	3.493mA	✓	N/A
24	76.66mA	115.0mA	0.305mA	✓	✓	0.331mA	✓	N/A	25	90.00mA	135.0mA	2.423mA	✓	✓	2.526mA	✓	N/A
26	70.76mA	106.1mA	0.231mA	✓	✓	0.250mA	✓	N/A	27	83.33mA	125.0mA	1.588mA	✓	✓	1.700mA	✓	N/A
28	65.71mA	98.57mA	0.216mA	✓	✓	0.231mA	✓	N/A	29	77.58mA	116.3mA	0.938mA	✓	✓	1.046mA	✓	N/A
30	61.33mA	92.00mA	0.215mA	✓	✓	0.232mA	✓	N/A	31	72.58mA	108.8mA	0.616mA	✓	✓	0.680mA	✓	N/A
32	57.50mA	86.25mA	0.211mA	✓	✓	0.225mA	✓	N/A	33	68.18mA	102.2mA	0.655mA	✓	✓	0.687mA	✓	N/A
34	54.11mA	81.17mA	0.209mA	✓	✓	0.226mA	✓	N/A	35	64.28mA	96.42mA	0.842mA	✓	✓	0.881mA	✓	N/A
36	51.11mA	76.66mA	0.201mA	✓	✓	0.215mA	✓	N/A	37	60.81mA	91.21mA	1.011mA	✓	✓	1.044mA	✓	N/A
38	48.42mA	72.63mA	0.192mA	✓	✓	0.211mA	✓	N/A	39	57.69mA	86.53mA	1.053mA	✓	✓	1.079mA	✓	N/A
40	46.00mA	69.00mA	0.182mA	✓	✓	0.201mA	✓	N/A									

Annex C: Photographs

Photograph 1: Mains Port Conducted Emissions Setup

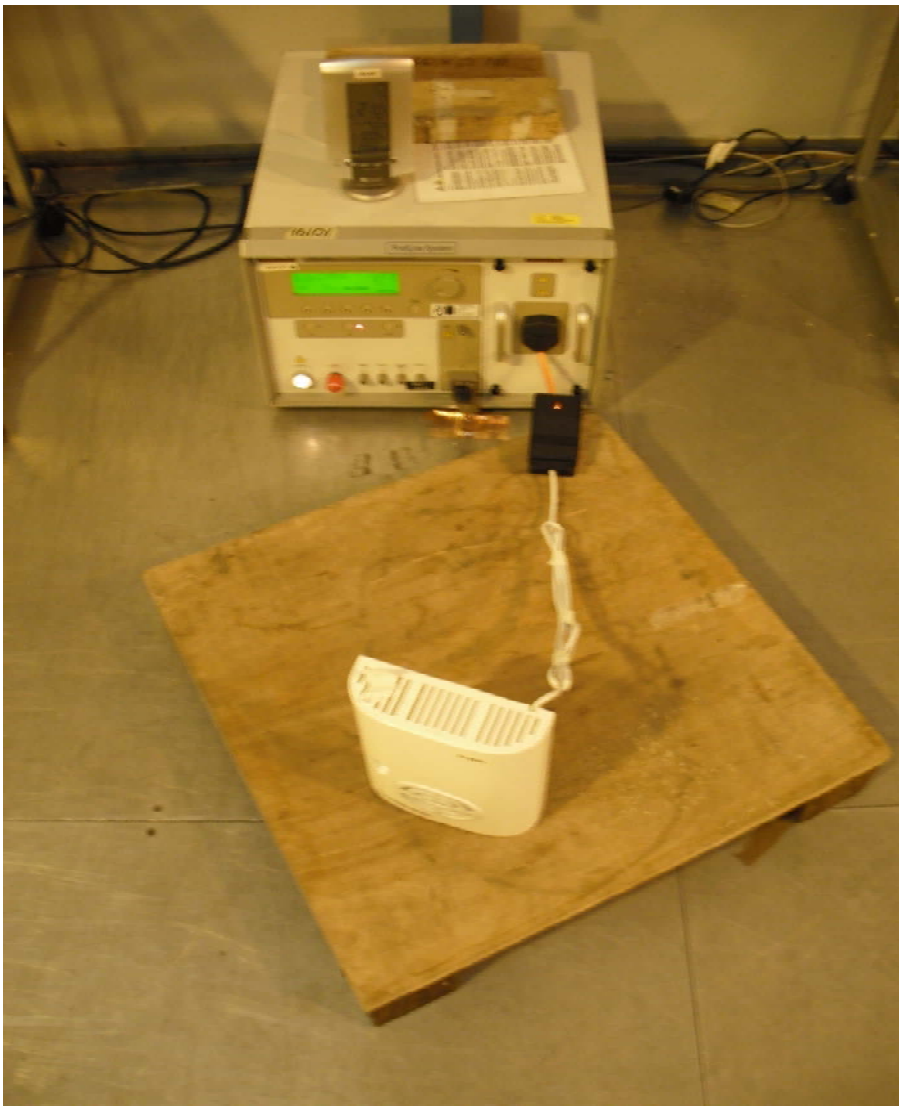


Photograph 2: Disturbance Power Emissions Setup

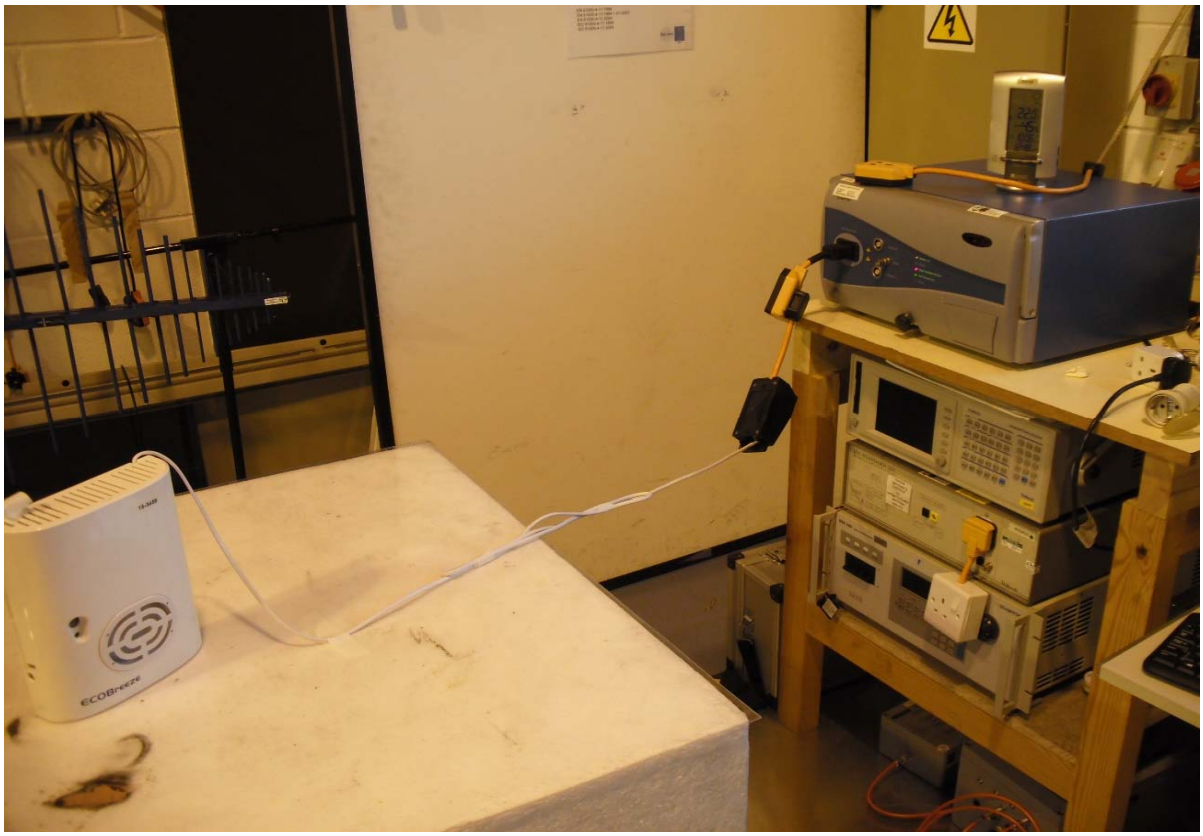


Photograph 3: Electrostatic Discharge Setup

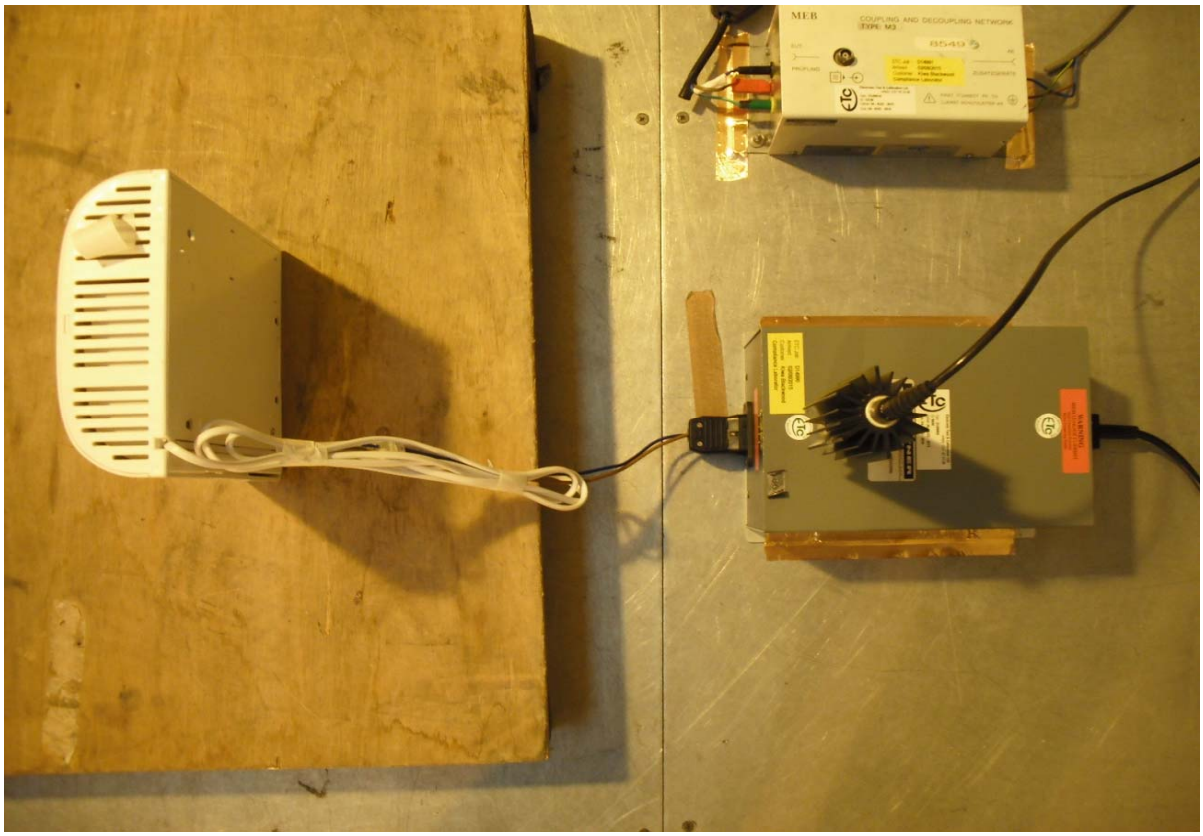
Photograph 4: EFT / Bursts Setup



Photograph 5: Surge Immunity Setup



Photograph 6: Conducted RF Immunity Setup



Photograph 7: Dips & Interruptions Setup

End of Report