



Confidential Report

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| Client: VOX Power, Vox Power Ltd Terenure Enterprise Centre 17 Rathfarnham Road Terenure Dublin 6W <u>Attention: Mr. Brian Fox</u> | Test of: Nevo600 Power Supply Unit To parts of: EN 61000-6-3: 2001 (Conducted Emissions only), EN 61000-6-2: 2005, EN 61000-3-2: 2006 & EN 61000-3-3: 1995 + A1: 2001 |
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TESTED BY: Colm Fee

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APPROVED SIGNATORY: John McAuley

Executive Summary

Emissions Testing performed according to parts of EN 61000-6-3: 2001,
EN 61000-3-2: 2006 & EN 61000-3-3: 1995 + A1: 2001

Immunity Testing performed according to EN 61000-6-2: 2005

| Result: | Test standard referenced: | Test Title |
|----------------|----------------------------------|---|
| Complied | EN 61000-6-3: 2001 | Conducted Emissions (Class B) |
| Complied | EN 61000-4-3: 2006 | Radiated, radio-frequency, electromagnetic field immunity test. |
| Complied | EN 61000-4-4: 2004 | Electrical fast transient / burst immunity test. |
| Complied | EN 61000-4-5: 2005 | Surge immunity test. |
| Complied | EN 61000-4-6: 2001 | Immunity to conducted disturbances, induced by radio-frequency fields. |
| Complied | EN 61000-4-11: 2005 | Voltage Dips & Interruptions |
| Complied | EN 61000-3-2: 2006 | Steady State & Fluctuating Harmonics |
| Complied | EN 61000-3-3: 1995 + A2: 2005 | Flicker Testing |

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Test Of: Nevo600 Power Supply Unit
To:
EN 61000-6-3: 2001, EN 61000-3-2: 2006,
EN 61000-3-3: 1995 + A1: 2001,
EN 61000-6-2: 2005

1 Equipment Under Test (EUT)

1.1 Identification of EUT

| | |
|---------------|------------------|
| Brand Name: | VOX Power |
| Description: | Modular 600W PSU |
| Model Number: | Nevo600 |

1.2 Description of EUT

The EUT was a modular 600W power supply unit.

1.3 Modifications

There were no modifications made to the EUT.

1.4 Support Equipment List

| | |
|---------------|-------------------------|
| Brand Name: | Array |
| Description: | Electronic Loads (4 of) |
| Model Number: | 3710A |

1.5 Date of Test

The tests were carried out on one sample of the EUT on the 14th of March and the 4th of October 2007.

2 Test Specification, Methods and Procedures

2.1 Emissions Test Specification

Conducted Emissions

EN 61000-6-3: 2001

Title:

Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

Fluctuating Harmonics

EN 61000-3-2: 2006

Title:

Limits for harmonic current emissions
(Equipment input current rating up to 16A per phase)

Flicker

EN 61000-3-3: 1995 + A1: 2001

Title:

Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current < 16A per phase and not subject to conditional connection

2.2 Apparatus and Methods:

Measuring apparatus used during tests was designed and built to the requirements of
C.I.S.P.R. 16-1:2002 + A1: 2002 + A2: 2003
C.I.S.P.R. 16-2:2002

2.3 Immunity

Immunity was assessed to the following standards:

EN 61000-6-2: 2005

Title:

Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments

| | |
|---------------------|---|
| EN 61000-4-3: 2002 | Electromagnetic Compatibility (EMC) Part4: Testing and measurement techniques Section3: Radiated, radio-frequency, electromagnetic field immunity test |
| EN 61000-4-4: 2004 | Electromagnetic Compatibility (EMC) Part4: Testing and measurement techniques Section4: Electrical fast transient/burst immunity test |
| EN 61000-4-5: 2005 | Electromagnetic compatibility (EMC) Part 4. Testing and measurement techniques. Section 5. Surge immunity test. |
| EN 61000-4-6: 2006 | Electromagnetic compatibility Part 4. Testing and measurement techniques. Section 6. Immunity to conducted disturbances, induced by radio-frequency fields. |
| EN 61000-4-11: 2004 | Electromagnetic compatibility (EMC) Part 4. Testing and measurement techniques. Section 11. Voltage Dips & Interruptions test |

C.I.S.P.R. 16: 1987 Specification for radio interference and measuring apparatus and measurement methods

2.4 Purpose of test

To determine compliance with the EU EMC Directive 2004/108/EC.

3 Deviations or Exclusions from the Test Specifications

3.1 Deviations

There were no deviations from the test specification.

3.2 Exclusions

There were no exclusions from the test specification.

4 Operation of EUT During Testing

4.1 Operating Environment

Supply Voltage: 230 Vac, 50 Hz

The following were the conditions at the time of immunity testing.

Temperature: 17-19°C
Humidity: 56-59%RH

4.2 Operating Modes:

The EUT was tested loaded at 450W.

5 Results

5.1 Conducted Emissions

Measurements of conducted emissions were carried out using the receiver analysis feature, which uses three detectors, peak, quasi peak and average. Using this mode the voltage emission spectrum was scanned in peak detection mode and emissions, which exceeded a sub range margin relevant to the respective limits, were further measured using the quasi peak and average detectors. At each such measurement point the live and neutral conductors were examined individually to determine the maximum. The receiver bandwidth was set to 10kHz. Figures 1 & 2, Appendix 3 shows the results.

5.1.1 Measurement Uncertainty

The measurement uncertainty (with a 95% confidence level) for the conducted voltage test was ± 2.8 dB.

5.2 Immunity to Radiated, Radio Frequency Electromagnetic Fields

Testing was performed according to EN61000-4-3 from 80MHz to 1000 MHz.

Port: Enclosure
Basic Standard: EN 61000-4-3: 2006
Performance Criterion: A
Limit: 10 V/m (80%AM 1kHz modulation)
Frequency range: 80-1000 MHz
Test performed at: 230 Vac, 50 Hz

The EUT was placed in the anechoic chamber.

The step sizes from 80-1000 MHz were in 1% steps. The dwell time at each frequency was 2 seconds. The test level was maintained at over 10 V/m at all frequencies.

The EUT was in normal running mode during the test. As the EUT was electrically small, only two faces were illuminated.

A field sensor was placed in close proximity to the system. The distance of the antenna from the EUT was 2.2 metres. The tests were carried out with the antenna oriented in horizontal and vertical polarisations.

During the tests the load banks were observed to assess any errors in the operation of the EUT.

| Frequency MHz | Polarisation (V/H) | Level (V/m) | Result |
|------------------|-----------------------|----------------|----------|
| 80-1000 MHz | V and H | 10 | Complied |

Results of Radiated Immunity testing

5.3 Immunity to Conducted Radio Frequency Interference

Ports: AC Mains
Basic Standard: EN 61000-4-6: 2006
Performance Criterion: A
Limit: 10V rms (80%AM 1kHz modulation)
Frequency range: 150 kHz to 80 MHz

The monitor was observed for any deviations from normal operating mode.

The current was injected on the mains cable of the EUT in common mode. The current probe was located at 0.1m from the ac port. Each surface of the EUT was more than 0.5m from other metal surfaces.

The test configuration used was the EM Clamp injection method. The system was calibrated to provide a current input level equivalent to an injected voltage level of 10V rms into a 150Ω system.

The EUT functioned as normal during the testing and was subsequently found to be operating satisfactorily.

The test configuration is shown in Appendix 2.

| Port | Disturbance type | Result |
|----------|---------------------------|----------|
| AC Mains | 10V rms, 150 kHz - 80 MHz | Complied |

Results of Conducted Immunity testing

5.4 Electrical Fast Transient Test

Basic Standard: EN 61000-4-4: 2004
Performance Criterion: B
Limit: ± 4 kV mains power ports

Positive and negative fast transient discharges of amplitude 4 kV were applied to the mains input in accordance with the requirements of EN 61000-4-4: 2004.

Transients were applied to each of the live, neutral and earth lines.
The test configuration is shown in Appendix 2.

The tests were carried out with negative and positive transients. The application time for each test was 2 minutes.

| Coupling Mode | Disturbance type | Result |
|------------------------|-------------------------|---------------|
| Live | ± 4 kV | Complied |
| Neutral | ± 4 kV | Complied |
| Earth | ± 4 kV | Complied |
| Live – Neutral – Earth | ± 4 kV | Complied |

Results of Fast Transient testing

5.5 Surge Immunity Test

Basic Standard: EN 61000-4-5: 2005
Performance Criterion: A
Limit, line to earth: ± 4 kV mains power ports
Limit, line to line: ± 2 kV mains power ports

Positive and negative surges of were applied to each of the mains inputs in accordance with the requirements of EN 61000-4-5: 2005.

The test configuration is shown in Appendix 2.

The tests were carried out with positive and negative surges. The test was repeated every 60 seconds for a total of 5 times.

The EUT functioned as normal during the testing and was subsequently found to be operating satisfactorily.

| Port | Mode of conduction | Disturbance level | Result |
|------|--------------------|-------------------|----------|
| PSU | L-E | ± 4 kV | Complied |
| PSU | N-E | ± 4 kV | Complied |
| PSU | L-N | ± 2 kV | Complied |

Results of Surge Testing

5.6 Voltage Dips and Interruptions

Basic Standard: EN 61000-4-11: 2005

Dips: Mains port – 30% dip 10ms duration
Mains port – 60% dip 100ms duration
Mains port – 95% dip 10ms duration

Interruption: Mains port – Interruption 5s duration

Dips and interruptions were applied to the mains input in accordance with the requirements of EN 61000-4-11: 2005.

The test configuration is shown in Appendix 2.

The EUT was found to be operating satisfactorily during and subsequent to testing.

| Voltage Level | Duration | No. of times applied | Results |
|----------------------|-----------------|-----------------------------|----------------|
| 70% | 500milliSeconds | 3 | Pass |
| 40% | 100milliSeconds | 3 | Pass |
| <5% | 10milliseconds | 3 | Pass |

Results of Voltage Dips and Interruptions testing

5.7 Fluctuating Harmonics

Ports: AC power supply
Basic Standard: EN 61000-3-2: 2006
Class: A

The Fluctuating Harmonics test measures the current at each of the harmonic frequencies from the second harmonic up to the fortieth harmonic.

A 50 Hertz, 230 Volt AC source was used to power the unit in compliance with EN 61000-3-2: 2006. The current harmonic levels were measured and compared with the limit levels for Class A waveforms.

See Appendix 3 for results.

5.8 Flicker

Ports: AC power supply
Basic Standard: EN 61000-3-3: 1995 + A1: 2001

The EUT was connected to an impedance network and a 50 Hertz, 230 Volt AC source to power the unit in compliance with EN 61000-3-3: 1995 + A1: 2001.

Measurements were made over a two-hour period as required to measure Plt.

See Appendix 3 for results.

6 Analysis of Test Results, Conclusions

6.1 Measurement Uncertainties

The measurement uncertainties stated were calculated in accordance with the requirements of CISPR 16-4 with a confidence level of 95%.

6.2 Conducted Emissions

The E.U.T. complied with the conducted emission specification by a margin of 2 dB @ 27.84 MHz with on the neutral line, with respect to the average limit..

6.3 Immunity

The EUT complied with the immunity tests carried out to demonstrate compliance with EN 61000-6-2: 2005.

6.4 Harmonic Current Emissions

The EUT complied with the fluctuating harmonics testing performed to EN 61000-3-2: 1995/ A14: 2000.

6.5 Flicker

The EUT complied with the Flicker testing performed to demonstrate compliance with EN 61000-3-3: 1995+ A1: 2001

**Appendix 1
Test Equipment Used:**

| Instrument | Mfr. | Model | Serial No. |
|-----------------------------------|------------------------|--------------|-------------------|
| Measuring Receiver | Rohde and Schwarz | ESVS30 | 863342/003 |
| Bilog Antenna | CEI | 699 | 699 |
| Signal Generator | Marconi | 2022D | 119164/021 |
| Power Amplifier | Amplifier Research | 150L | 12396 |
| Power Amplifier | Milmega | ASM1000-75R | 981440 |
| Field Monitor System | Amplifier Research | FM2000 | 13142 |
| Field Probe | Amplifier Research | FP2000 | 13130 |
| Bilog Antenna | Schaffner | CBL6111C | 329 |
| Transient Simulator | Schaffner | Best Plus | 199749A016SC |
| Open Area Test Site | CEI | - | 666 |
| EM Clamp | Schaffner | KEMZ 801 | 19810 |
| Universal Power Analyser | Voltech | PM3000A | AM60 / 5432 |
| Directional Coupler | Werlatone Inc. | C2630 | 3206 |
| AC Power Source | Elgar | 1751SL | 14665 |
| Function Generator | Hewlett Packard | 3325A | 675 |
| Magnetic Loop | CEI | - | - |
| Signal Generator | Rohde & Schwarz | SMH | 883739 /044 |
| Electrostatic Discharge Simulator | Schaffner | NSG432 | 00978 |
| Positive Discharge Adapter | Schaffner | 402 628 | 9318 |
| Negative Discharge Adapter | Schaffner | 402 645 | 9325 |
| AC Power Source | California Instruments | 3001ix | - |

Appendix 2 Test Configuration Drawings

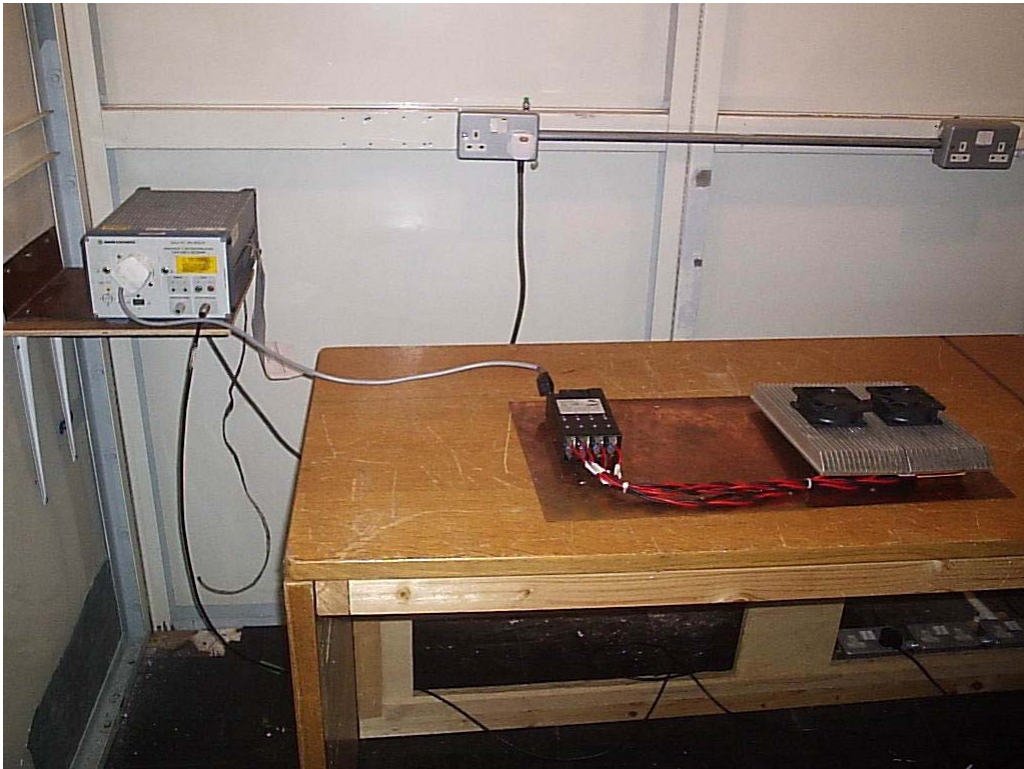


Figure 1: Conducted Emissions Test Set up

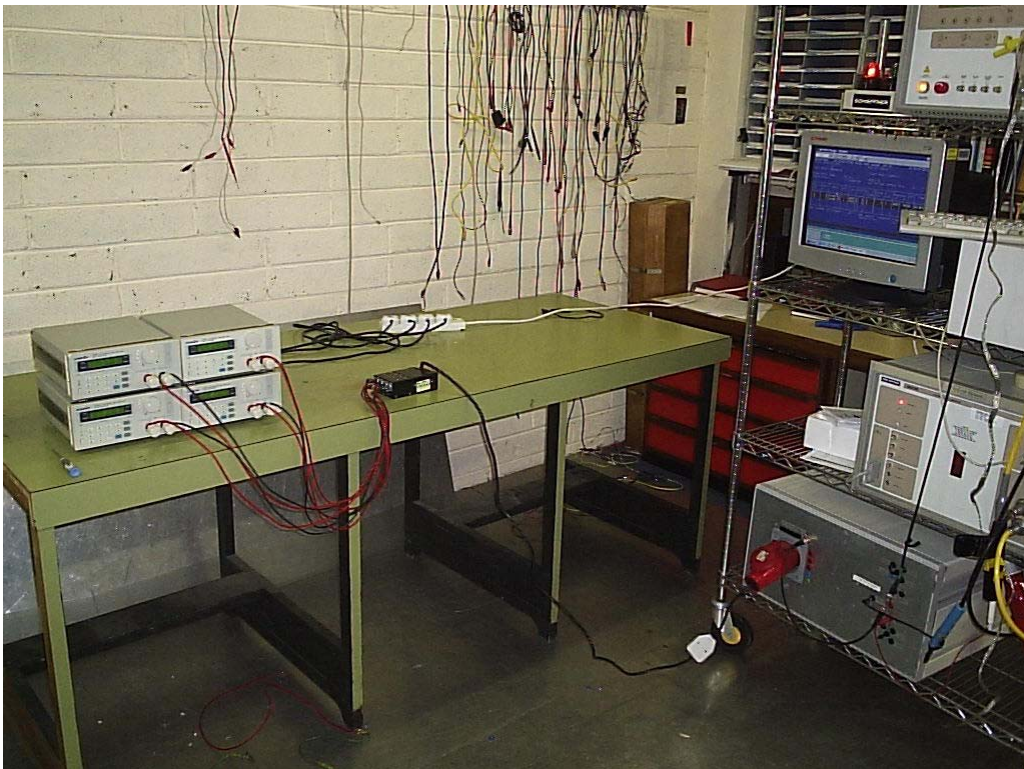


Figure 2: Fast Transients & Surges Test Set up



Figure 3: Voltage Harmonics and Flicker Test Set up

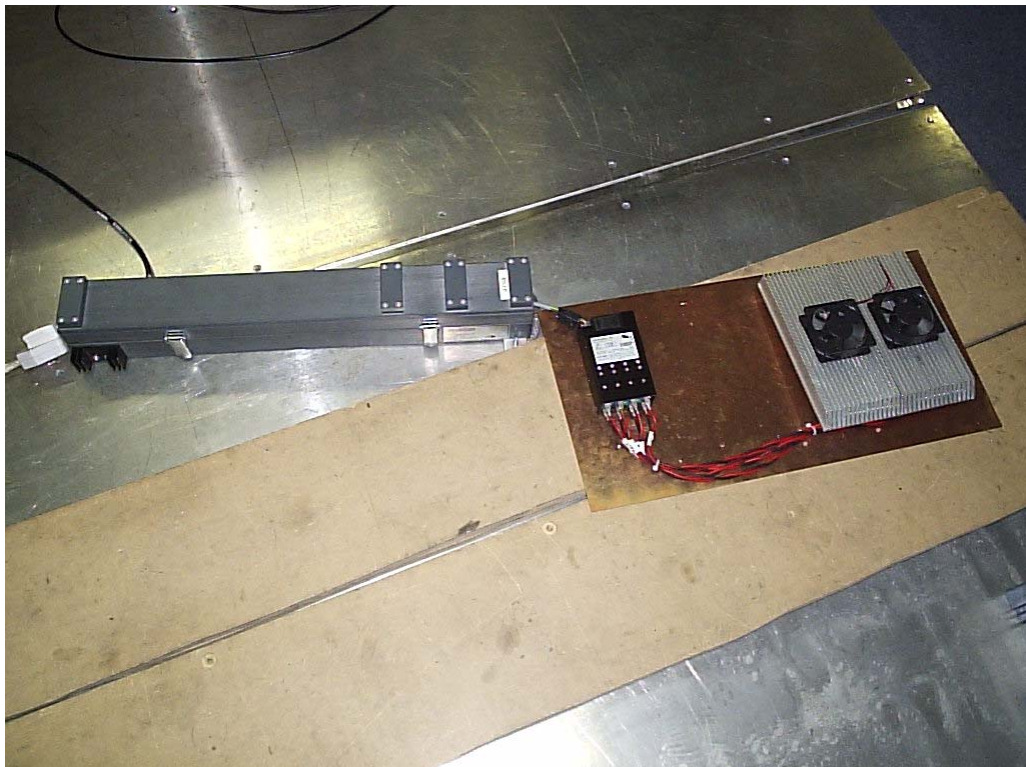


Figure 4: Conducted Immunity Test Set up

Appendix 3 Test Results

| Harmonic | Limit 1 | Limit 2 | Average Reading | Max Reading | Pass/FAIL |
|----------|------------|------------|-----------------|-------------|-----------|
| 2 | 1.080000A | 1.620000A | 3.645091mA | 3.749847mA | N/A |
| 3 | 2.300000A | 3.450000A | 525.8662mA | 528.7933mA | Pass |
| 4 | 430.0000mA | 645.0000mA | 1.425351mA | 2.333760mA | N/A |
| 5 | 1.140000A | 1.710000A | 71.05048mA | 71.88034mA | Pass |
| 6 | 300.0000mA | 450.0000mA | 1.250003mA | 1.249999mA | N/A |
| 7 | 770.0000mA | 1.155000A | 90.32322mA | 91.12167mA | Pass |
| 8 | 230.0000mA | 345.0000mA | 1.250003mA | 1.249999mA | N/A |
| 9 | 400.0000mA | 600.0000mA | 25.94472mA | 26.25036mA | Pass |
| 10 | 184.0000mA | 276.0000mA | 1.250003mA | 1.249999mA | N/A |
| 11 | 330.0000mA | 495.0000mA | 21.23339mA | 21.25024mA | Pass |
| 12 | 153.3333mA | 230.0000mA | 1.250003mA | 1.249999mA | N/A |
| 13 | 210.0000mA | 315.0000mA | 21.29943mA | 21.68369mA | Pass |
| 14 | 131.4285mA | 197.1428mA | 1.250003mA | 1.249999mA | N/A |
| 15 | 150.0000mA | 225.0000mA | 16.28383mA | 16.59631mA | Pass |
| 16 | 115.0000mA | 172.5000mA | 1.250003mA | 1.249999mA | N/A |
| 17 | 132.3529mA | 198.5294mA | 13.54691mA | 13.74959mA | N/A |
| 18 | 102.2222mA | 153.3333mA | 1.250003mA | 1.249999mA | N/A |
| 19 | 118.4210mA | 177.6315mA | 6.866032mA | 7.730126mA | N/A |
| 20 | 92.00000mA | 138.0000mA | 1.250003mA | 1.249999mA | N/A |
| 21 | 107.1428mA | 160.7142mA | 4.012334mA | 5.076766mA | N/A |
| 22 | 83.63636mA | 125.4545mA | 1.250003mA | 1.249999mA | N/A |
| 23 | 97.82608mA | 146.7391mA | 11.29812mA | 11.66844mA | N/A |
| 24 | 76.66667mA | 115.0000mA | 1.250003mA | 1.249999mA | N/A |
| 25 | 90.00000mA | 135.0000mA | 11.67625mA | 12.63260mA | N/A |
| 26 | 70.76923mA | 106.1538mA | 1.250003mA | 1.249999mA | N/A |
| 27 | 83.33333mA | 125.0000mA | 4.959677mA | 6.086349mA | N/A |
| 28 | 65.71428mA | 98.57142mA | 1.268743mA | 1.466155mA | N/A |
| 29 | 77.58620mA | 116.3793mA | 15.05896mA | 15.85531mA | Pass |
| 30 | 61.33333mA | 92.00000mA | 1.250003mA | 1.249999mA | N/A |
| 31 | 72.58064mA | 108.8709mA | 14.04663mA | 14.69779mA | N/A |
| 32 | 57.50000mA | 86.25000mA | 1.263819mA | 1.445293mA | N/A |
| 33 | 68.18182mA | 102.2727mA | 11.34616mA | 12.12549mA | N/A |
| 34 | 54.11764mA | 81.17647mA | 1.250003mA | 1.249999mA | N/A |
| 35 | 64.28572mA | 96.42857mA | 11.30149mA | 11.81411mA | N/A |
| 36 | 51.11111mA | 76.66667mA | 1.291474mA | 1.752734mA | N/A |
| 37 | 60.81081mA | 91.21622mA | 6.168393mA | 6.391883mA | N/A |
| 38 | 48.42105mA | 72.63158mA | 1.252744mA | 1.379877mA | N/A |
| 39 | 57.69230mA | 86.53846mA | 8.698442mA | 9.030342mA | N/A |
| 40 | 46.00000mA | 69.00000mA | 1.251376mA | 1.373112mA | N/A |

Table 1: Fluctuating Harmonics (230V, 50 Hz)

N/A in Pass / FAIL column: Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

| | Pst | dc(%) | dmax(%) | 3.3 |
|-------------------|------------|--------------|----------------|------------|
| Limit | 1 | 3.3 | 4 | 500 |
| Reading 1 | 0.071 | 0.015 | 0.07 | 0 |
| Reading 2 | 0.071 | 0.015 | 0.07 | 0 |
| Reading 3 | 0.071 | 0.015 | 0.07 | 0 |
| Reading 4 | 0.071 | 0.015 | 0.07 | 0 |
| Reading 5 | 0.071 | 0.015 | 0.063 | 0 |
| Reading 6 | 0.071 | 0.015 | 0.063 | 0 |
| Reading 7 | 0.071 | 0.015 | 0.063 | 0 |
| Reading 8 | 0.071 | 0.015 | 0.063 | 0 |
| Reading 9 | 0.071 | 0.015 | 0.07 | 0 |
| Reading 10 | 0.071 | 0.015 | 0.063 | 0 |
| Reading 11 | 0.071 | 0.015 | 0.063 | 0 |
| Reading 12 | 0.071 | 0.021 | 0.063 | 0 |

Table 2: Flicker Test Results (230V, 50 Hz)

Conducted Emissions LISN

04. Oct 07 09:46

Scan Settings (2 Ranges)

| Frequencies | | | Receiver Settings | | | | | |
|-------------|------|------|-------------------|----------|--------|-------|--------|-------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp | OpRge |
| 150k | 3M | 10k | 10k | PK+AV | 20ms | AUTO | LN OFF | 60dB |
| 3M | 30M | 10k | 10k | PK+AV | 20ms | AUTO | LN OFF | 60dB |

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB

| Transducer No. | Start | Stop | Name |
|----------------|--------|------|----------|
| 2 | 1 150k | 30M | NETC601 |
| 15 | 9k | 30M | 1pinslos |

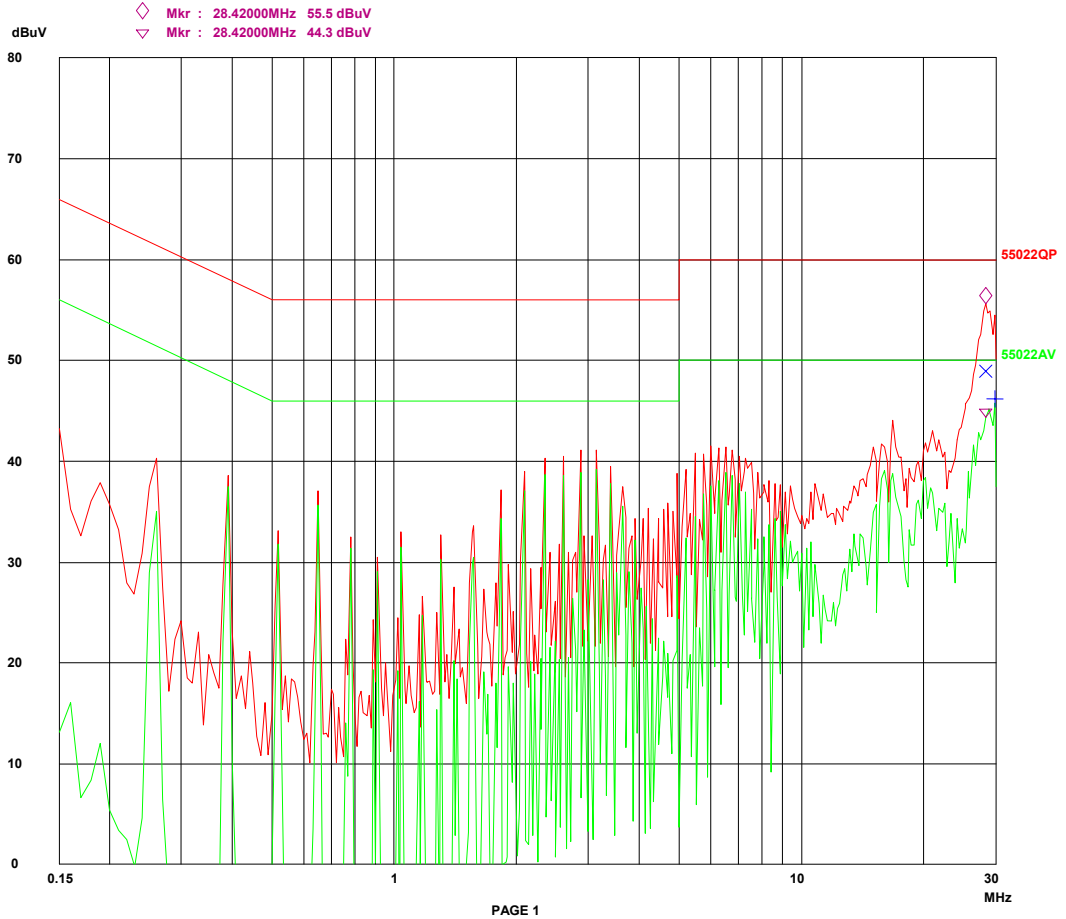


Figure 1: Conducted Emissions (live, 230V, 50Hz)

Conducted Emissions LISN

04. Oct 07 10:15

Scan Settings (2 Ranges)

| Frequencies | | | Receiver Settings | | | | | | |
|-------------|------|------|-------------------|----------|--------|-------|--------|-------|------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp | OpRge | |
| 150k | 3M | 10k | 10k | PK+AV | 20ms | AUTO | LN | OFF | 60dB |
| 3M | 30M | 10k | 10k | PK+AV | 20ms | AUTO | LN | OFF | 60dB |

Final Measurement: x QP / + AV
 Meas Time: 1 s
 Subranges: 25
 Acc Margin: 6dB

| Transducer No. | Start | Stop | Name |
|----------------|-------|------|----------|
| 2 | 150k | 30M | NETC601 |
| 15 | 9k | 30M | 1pinslos |

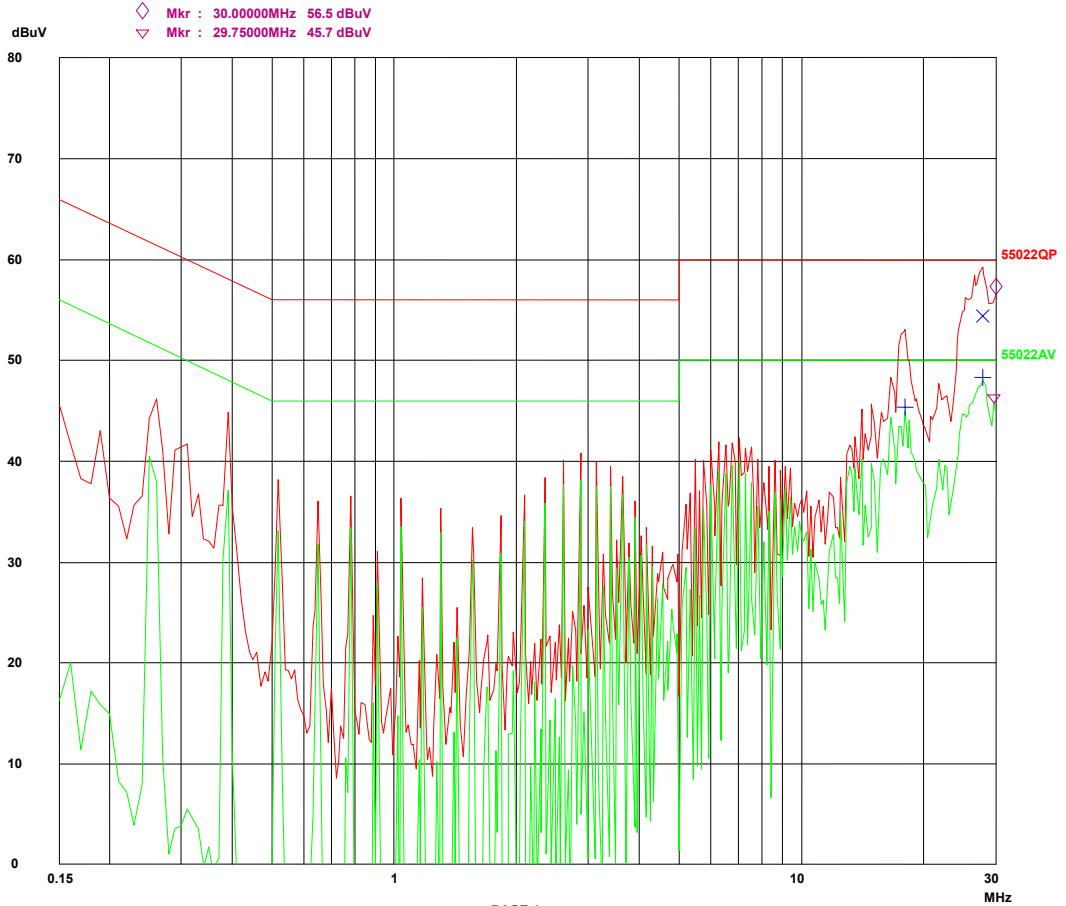


Figure 2: Conducted Emissions (neutral, 230V, 50Hz)