CE EMC

Date of Issue: October 31, 2005

TEST REPORT

For

Medical Station

Model: ONYX-193

Trade Name: AAEON

Issued to

AAEON Technology Inc. 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.

Issued by



Compliance Certification Services Inc. Hsintien Lab.

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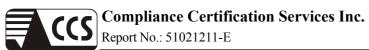


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1 TEST RESULT CERTIFICATION

Applicant: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City,

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Taipei, Taiwan, R.O.C.

Manufacturer: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City,

Taipei, Taiwan, R.O.C.

Equipment Under Test: Medical Station

Trade Name: AAEON

Model: ONYX-193

Detailed EUT Description: See Item 2 of this report

Date of Test: October 21, 2005 ~ October 25, 2005

| Applicable Standard | Class/Limit/Criterion | Test Result | | | |
|---|----------------------------|-------------------------|--|--|--|
| EN 60601-1-2: 2001, including | | | | | |
| EN 55011: 1998 + A1: 1999 + A2: 2002 | Group I, Class B | No non-compliance noted | | | |
| IEC 61000-4-2: 1995 +A1: 1998 +A2: 2000 | See Item 9 of this report | No non-compliance noted | | | |
| IEC 61000-4-3: 2002 +A1: 2002 | See Item 10 of this report | No non-compliance noted | | | |
| IEC 61000-4-4: 1995 +A1: 2000 +A2: 2001 | See Item 11 of this report | No non-compliance noted | | | |
| IEC 61000-4-5: 1995 + A1: 2000 | See Item 12 of this report | No non-compliance noted | | | |
| IEC 61000-4-6: 1996 + A1: 2000 | See Item 13 of this report | No non-compliance noted | | | |
| IEC 61000-4-8: 1993 + A1: 2000 | See Item 14 of this report | No non-compliance noted | | | |
| IEC 61000-4-11: 1994 + A1: 2000 | See Item 15 of this report | No non-compliance noted | | | |
| EN 61000-3-2: 2000 | Class D | No non-compliance noted | | | |
| EN 61000-3-3: 1995 + A1: 2001 Limit No non-compliance not | | | | | |
| Deviation from Applicable Standard | | | | | |
| None | | | | | |

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the EMC Directive 93/42/EEC and the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Reviewed by:

David Wang

Manager of Hsintien Laboratory

Compliance Certification Services Inc.

Vince Chiang

Assistant Manager of Hsintien Laboratory Compliance Certification Services Inc.

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2 EUT DESCRIPTION

| Product | Medical Station | |
|---------------------------|-------------------------------|--|
| Trade Name | AAEON | |
| Model | ONYX-193 | |
| Housing Type | Plastic w/ metal plate | |
| EUT Power Rating | 100~240VAC | |
| AC Power During Test | 230VAC / 50Hz | |
| Power Supply Manufacturer | FSP | |
| Power Supply Model Number | FSP180-50MP | |
| AC Power Cord Type | Unshielded, 1.8m (Detachable) | |
| OSC/Clock Frequencies | 32.768kHz; 14.31818MHz; 25MHz | |

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I/O PORT OF EUT

| I/O PORT TYPE | Q'TY | TESTED WITH |
|--------------------------|------|-------------|
| 1). PIO Port | 1 | 1 |
| 2). SIO Port | 3 | 3 |
| 3). PS/2 Keyboard Port | 1 | 1 |
| 4). PS/2 Mouse Port | 1 | 1 |
| 5). VIDEO-OUT Port (VGA) | 1 | 1 |
| 6). AUDIO IN Port | 1 | 1 |
| 7). Microphone Port | 1 | 1 |
| 8). EARPHONE Port | 1 | 1 |
| 9). LAN Port | 1 | 1 |
| 10). USB Port | 5 | 5 |
| 11). S-VIDEO OUT Port | 1 | 1 |
| 12). CF Slot | 1 | 1 |
| 13). MS Slot | 1 | 1 |
| 14). SM Slot | 1 | 1 |
| 15). SD Slot | 1 | 1 |

Note: Client consigns only one model sample (Model Number is ONYX-193) to test.

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3 TEST METHODOLOGY

3.1 EUT system Operation

- 1. Windows 2000 boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.

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- 3. Run Winemc.exe and choose media player to play music.
- 4. Run Winemc.exe and choose "F:/ & G:/ & H:/ & I:/ & J:/" to test USB 2.0 port.
- 5. Press the start menu, select executive and type ping 192.168.0.2 –t (EUT), ping 192.168.0.1 –t (Server Notebook).

Note: Test program is self-repeating throughout the test.

3.2 DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

Mode(s):

| 1. | LCD+Panel (1280X1024, VF=75Hz) |
|----|---------------------------------|
| 2. | Panel+S-video(800X600, VF=75Hz) |
| 3. | Panel+S-video(640X480, VF=60Hz) |

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Conduction: Mode 1

Radiation: Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was chosen for all final test items.

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4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

Support Equipment

EUT Devices:

| No | Equipment | Model # | Trade Name |
|----|------------------------|-------------------|------------|
| 1 | CPU (1.6GHz) | Pentium M 1.60GHz | Intel (R) |
| 2 | Memory (DDR333/ 512MB) | HY5DU56822DT-J | Hynix |
| 3 | Hard Disk (40GB) | MHT2040AT | FUJITSU |
| 4 | Power Supply | FSP180-50MP | FSP |
| 5 | DVD ROM | DV-28SL | TEAC |

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Peripherals Devices:

| No | Equipment | Model | Serial No. | FCC ID/ BSMI ID | Trade Name | Data Cable | Power Cord |
|----|--------------------|-------------|------------------|---------------------|------------------|-------------------------------------|---------------------|
| 1 | USB 2.0 HDD | F12-U | N/A | BSMI ID: 4912A002 | TeraSys | Shielded, 1.8m | N/A |
| 2 | USB 2.0 HDD | F12-U | N/A | BSMI ID: 4912A002 | TeraSys | Shielded, 1.8m | N/A |
| 3 | USB 2.0 HDD | F12-U | N/A | BSMI ID: 4912A002 | TeraSys | Shielded, 1.8m | N/A |
| 4 | USB 2.0 HDD | F12-U | N/A | BSMI ID: 4912A002 | TeraSys | Shielded, 1.8m | N/A |
| 5 | USB 2.0 HDD | F12-U | N/A | BSMI ID: 4912A002 | TeraSys | Shielded, 1.8m | N/A |
| 6 | PS/2 Mouse | M071KC | 443029438 | BSMI: R41108 DoC | DELL | Shielded, 1.8m | N/A |
| 7 | PS/2 Keyboard | SK-8110 | N/A | BSMI: T3A002 DoC | DELL | Shielded, 1.8m | N/A |
| 8 | Player | RQ-L317 | N/A | N/A | PANASONIC | Unshielded, 1.6m | N/A |
| 9 | Ear / Mic | MSB301 | N/A | N/A | e-Sense | Unshielded, 1.8m | N/A |
| 10 | Printer | C60 | N/A | BSMI ID: 3902E006 | EPSON | Shielded, 1.8 m | Unshielded, 1.8m |
| 11 | Modem | 5JEG4033MKO | N/A | 5RJTAI-35500-M5-E | TOP- SOLUTION | Shielded, 0.9m | Unshielded, 1.8m |
| 12 | Monitor (TV) | GH17WS | N/A | BSMI: R33475 | SAMAUNG | Shielded, 1.8m | Unshielded, 1.8m |
| 13 | Modem | 5JEG4033MKO | N/A | 5RJTAI-35500-M5-E | TOP- SOLUTION | Shielded, 0.9m | Unshielded, 1.8m |
| 14 | Modem | 5JEG4033MKO | N/A | 5RJTAI-35500-M5-E | TOP- SOLUTION | Shielded, 0.9m | Unshielded, 1.8m |
| 15 | Monitor | 710V | GS17H9NXA05853A | BSMI: R33475 DoC | SAMSUNG | Shielded, 1.8m with two cores | Unshielded, 1.8m |
| 16 | Server Notebook | 2659-FT1 | AK-VHXOH 02/10 C | ANOPSIWLIV | IBM | Unshielded, 20m | Unshielded, 1.8m |
| 17 | SD Card | N/A | N/A | N/A | N/A | N/A | N/A |
| 18 | SM Card | N/A | N/A | N/A | N/A | N/A | N/A |
| 19 | MS Card | N/A | N/A | N/A | N/A | N/A | N/A |
| 20 | CF Card | N/A | N/A | N/A | N/A | N/A | N/A |

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test. Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities (except above 1GHz measurement frequency of IEC 61000-4-3) used to collect the measurement data are located at

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CCS Taiwan Hsintien Lab at No. 165, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

The measurement facilities of IEC 61000-4-3 frequency rang above 1GHz are located at CCS Taiwan Wuku Lab. at No. 11, Wu-Kung 6 Rd., Wu-Ku Hsiang, Wu-Ku Industrial District, Taipei Hsien, Taiwan

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

| Country | Agency | Scope of Accreditation | Logo |
|---------|---|---|--|
| USA | USA CFR 47, FCC Part 15/18 using ANSI 63.4; AS/NZS 3548; V0 V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISI 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55011; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-6, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2 IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2. | | ACCREDITED 824.01 |
| USA | FCC | 3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements | FC 250366 |
| Japan | VCCI | 3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements | VCCI R-1434/1630~4 C-1511/1882 |
| Norway | NEMKO | EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cispr 16-1/2/3/4 | ELA 103 |
| Taiwan | CNLA | 47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142 | 1108 ILAC MRA |
| Taiwan | BSMI | CNS 13438, CNS 13783-1, CNS 13439 | SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005 |
| Canada | Industry Canada | RSS212, Issue 1 | Canada IC 5742 |

Note: No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.

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6 INSTRUMENT AND CALIBRATION

6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

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6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other required standards. Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

Equipment Used for Emission Measurement

| Open Area Test Site # I | | | | | |
|-------------------------|-----------|-----------|------------------|----------------------------|--|
| EQUIPMENT | MFR | MODEL | SERIAL NUMBER | CAL. DUE | |
| SITE NSA | CCS | I Site | N/A | 10/14/2006 | |
| MEASURE RECEIVER | SCHAFFNER | SCR3501 | 338 | 06/27/2006 | |
| SPECTRUM ANALYZER | ADVANTEST | R3132 | 120900008 | No Calibration Required | |
| ANTENNA | SCHAFFNER | CBL 6112B | 2809 | 09/23/2006 | |
| AMPLIFIER | SCHAFFNER | CPA9231A | 3626 | 10/08/2006 | |
| CABLE | BELDEN | 9913 | N-TYPE #I2 | 02/18/2006 | |
| ATTENUATOR | MCL | UNAT-6 | AT06-3 | 10/08/2006 | |
| THERMO- HYGRO METER | TFA | N/A | NO.2 | 11/09/2005 | |

Note: The measurement uncertainty is less than +/- 3.36dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

| Conducted Emission Test Site # B | | | | | |
|----------------------------------|----------|---------|------------------|-------------|--|
| EQUIPMENT | MFR | MODEL | SERIAL NUMBER | CAL. DUE | |
| TEST RECEIVER | R&S | ESHS10 | 843743/015 | 03/31/2006 | |
| LISN (EUT) | EMCO | 3825/2 | 9106-1810 | 01/16/2006 | |
| LISN | EMCO | 3825/2 | 1382 | 01/16/2006 | |
| BNC CABLE | MIYAZAKI | 5D-FB | BNC B1 | 07/14/2006 | |
| Pulse Limiter | R&S | ESH3-Z2 | 100374 | 08/25/2006 | |
| THERMO- HYGRO METER | ТОР | HA-202 | 9303-3 | 03/02/2006 | |

Note: The measurement uncertainty is less than +/- 2.83dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

| Power Harmonic & Voltage Fluctuation/Flicker Test Site (EN 61000-3-2&-3-3) | | | | |
|--|------------|-------|----------------------------|--|
| Manufacturer/Type Model No. Serial No. Cal. Due | | | | |
| Schaffner / Signal Conditioning Unit | CCN 1000-1 | 72122 | 12/05/2005 | |
| Schaffner / 5KVA AC Power Source | NSG 1007 | 55131 | No Calibration Required | |

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Equipment Used for Immunity Measurement

| ESD Test Site (EN 61000-4-2) | | | | | |
|------------------------------|-----------|------------|------------|--|--|
| Manufacturer/Type | Model No. | Serial No. | Cal. Due | | |
| Schaffner / ESD Simulator | NSG 438 | 129 | 04/20/2006 | | |
| Sato / Aneroid Barometer | 7610-20 | 89090 | 08/29/2006 | | |
| TOP / Thermo-Hygro meter | HA-202 | 9303-1 | 03/02/2006 | | |

| Radiated Electro | Radiated Electromagnetic Field Immunity Test Site (EN 61000-4-3) | | | | | | | |
|---------------------------------------|--|-----------------|----------------------------|--|--|--|--|--|
| Manufacturer/Type | Model No. | Serial No. | Cal. Due | | | | | |
| Calibration of Field | Chamber#RS | RS3H-7 / RS3V-7 | 07/01/2006 | | | | | |
| Agilent / Signal Generator | E4421B | MY43350597 | 05/16/2006 | | | | | |
| AR / Electric Field Probe | FP6001 | 305650 | 02/03/2006 | | | | | |
| Boonton / RF Voltmeter | 9200B | 328001AE | 02/23/2006 | | | | | |
| BNC / Function Generator | 625A | 25451 | 02/17/2006 | | | | | |
| AR / Amplifier | 100W1000M1 | 17564 | No Calibration Required | | | | | |
| Werlatone Inc. / Direction Coupler | ction C2630 4121 | | No Calibration Required | | | | | |
| Frankonia / Broadband Antenna | BTA-M | 030001M | No Calibration Required | | | | | |
| TOP / Thermo-Hygro meter | HA-202 | 9303-2 | 03/02/2006 | | | | | |

| Fast Transients/Burst Test Site (EN 61000-4-4) | | | | | | | |
|--|---------------|--------------|----------------------------|--|--|--|--|
| Manufacturer/Type | Model No. | Serial No. | Cal. Due | | | | |
| Schaffner / EFT Generator | BEST EMC V2.3 | 200031A024SC | 11/09/2005 | | | | |
| Schaffner / Capacitive Clamp | N/A | N/A | No Calibration Required | | | | |

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| Surge Immunity Test Site (EN 61000-4-5) | | | | | | | |
|---|---------------|--------------|----------------------------|--|--|--|--|
| Manufacturer/Type Model No. Serial No. Cal. Due | | | | | | | |
| Schaffner / Surger Generator | BEST EMC V2.3 | 200031A024SC | 11/09/2005 | | | | |
| Schaffner / Signal and Data Lines Coupling Network | CDN118 | 19328 | No Calibration Required | | | | |

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| CS test (EN 61000-4-6) | | | | | | | |
|-----------------------------|-----------------|------------|----------------------------|--|--|--|--|
| Manufacturer/Type | Model No. | Serial No. | Cal. Due | | | | |
| Schaffner / RF Generator | NSG 2070-1 | 1061 | 08/03/2006 | | | | |
| Schaffner / CDN | CDN M316 | 19600 | 08/02/2006 | | | | |
| Schaffner / CDN | CDN M216 | 19294 | 08/02/2006 | | | | |
| FCC / CDN | FCC-801-M3-16A | 99122 | 08/02/2006 | | | | |
| Schaffner / EM Clamp | KEMZ 801 | 19227 | 02/23/2006 | | | | |
| Schaffner / CDN | CDN T002 | 15881 | 01/13/2006 | | | | |
| FCC / CDN | FCC-801-T8-RJ45 | 04025 | 06/23/2006 | | | | |
| Schaffner / Attenuator | INA2070-1 | 2061 | No Calibration Required | | | | |
| FCC / CDN | FCC-801-T4-RJ45 | 04031 | 08/02/2006 | | | | |

| Power Frequency Magnetic Field Immunity test (EN 61000-4-8) | | | | | | |
|---|-----------|------------|----------------------------|--|--|--|
| Manufacturer/Type | Model No. | Serial No. | Cal. Due | | | |
| Schaffner / Induction Coil Interface | INA 21141 | 6009 | No Calibration Required | | | |
| Schaffner / 5KVA AC Power Source | NSG 1007 | 55131 | No Calibration Required | | | |
| Sypris / Magnetic Field Meter | 4080 | 0247 | 01/19/2006 | | | |

| Voltage Dips/Short Interruption and Voltage Variation Immunity test (EN 61000-4-11) | | | | | | | | |
|---|----------------------|--------------|------------|--|--|--|--|--|
| Manufacturer/Type | Model No. Serial No. | | Cal. Due | | | | | |
| Schaffner / Dips/Interruption/Variations Tester | BEST EMC V2.3 | 200031A024SC | 11/09/2005 | | | | | |
| Protronix / Digital Power Meter | 1201 | 201091 | 08/24/2006 | | | | | |

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7 LINE CONDUCTED & RADIATED EMISSION TEST

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7.1 LIMIT

Maximum permissible level of Line Conducted Emission

| Frequency | Class A | (dBµV) | Class B (dBµV) | | |
|------------|------------|---------|----------------|---------|--|
| (MHZ) | Quasi-peak | Average | Quasi-peak | Average | |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 | |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 | |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 | |

Note: The lower limit shall apply at the transition frequency.

Maximum permissible level of Radiated Emission measured at 10 meter

| Frequency | Class A (dBµV/m) | Class B (dBµV/m) |
|------------|------------------|------------------|
| (MHZ) | Quasi-peak | Quasi-peak |
| 30 – 230 | 40 | 30 |
| 230 - 1000 | 47 | 37 |

Note: The lower limit shall apply at the transition frequency.

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7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

Procedure of Preliminary Test

• The EUT was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN 55011 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane that has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

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- Support equipment, if needed, was placed as per EN 55011.
- All I/O cables were positioned to simulate typical actual usage as per EN 55011.
- The test equipment EUT installed received AC power, 230VAC/50Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the Average limit in Q.P. mode, then the emission signal was re-checked using an Average detector.
- The test data of the worst-case condition(s) was recorded.

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Data Sample:

| Freq. MHz | Read Level dBuV | Factor dB | Level dBuV | Limit dBuV | Over Limit dB | Reading Type (P/Q/A) | Line (L1/L2) |
|--------------|-----------------------|--------------|---------------|---------------|---------------------|----------------------------|-----------------|
| X.XX | 42.95 | 0.55 | 43.50 | 56 | -12.50 | Q | L1 |

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Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading Factor = Insertion loss of LISN + Cable Loss

Level = Read Level + Factor
Limit = Limit stated in standard
Over Limit = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading A = Average Reading

L1 = Hot side L2 = Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit (dBuV)

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7.3 TEST PROCEDURE OF RADIATED EMISSION

Procedure of Preliminary Test

• The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is floor-standing equipment, it is placed on the ground plane that has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

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- Support equipment, if needed, was placed as per EN 55011.
- All I/O cables were positioned to simulate typical usage as per EN 55011.
- The EUT received AC power source, 230VAC/50Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in EN 55011. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

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Data Sample:

| Freq. MHz | Read Level dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Over Limit dB | Reading Type (P/Q/A) | Pol. (H/V) |
|--------------|-----------------------|----------------|-----------------|-----------------|---------------------|----------------------|------------|
| X.XX | 14.0 | 12.2 | 26.2 | 30 | -3.8 | Q | Н |

Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading

Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain

Level = Read Level + Factor
Limit = Limit stated in standard
Over Limit = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading A = Average Reading

H = Antenna Polarization: Horizontal V = Antenna Polarization: Vertical

Calculation Formula

Over Limit (dB) = Level (dBuV/m) – Limit (dBuV/m)

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7.4 TEST RESULTS

Line Conducted Emission

Model: ONYX-193 Test Mode: Mode 1

Temperature: 24°C Humidity: 48% RH

Test Results: Passed **Tested by:** Alex Pan

(The chart below shows the highest readings taken from the final data, see **Appendix III** for details.)

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| | Six Highest Conducted Emission Readings | | | | | | | | |
|------------------------------|---|-------------|--------------|-------------------------|-----------------------|----------------------|-----------------|--|--|
| Frequency Range Investigated | | | | 150 kHz t | o 30 MHz | | | | |
| Freq (MHz) | Read Level (dBuV) | Factor (dB) | Level (dBuV) | Limit Line (dBuV) | Over Limit (dB) | Reading Type (P/Q/A) | Line (L1/L2) | | |
| 0.207 | 41.98 | 9.97 | 51.95 | 63.32 | -11.37 | P | L1 | | |
| 1.117 | 36.14 | 10.03 | 46.17 | 56.00 | -9.83 | P | L1 | | |
| 1.117 | 32.02 | 10.03 | 42.05 | 46.00 | -3.95 | A | L1 | | |
| 2.237 | 33.83 | 10.14 | 43.97 | 56.00 | -12.03 | P | L1 | | |
| 3.140 | 34.20 | 10.15 | 44.36 | 56.00 | -11.64 | P | L1 | | |
| 1.117 | 35.65 | 10.01 | 45.66 | 56.00 | -10.34 | P | L2 | | |
| 1.317 | 34.31 | 10.02 | 44.33 | 56.00 | -11.67 | P | L2 | | |

NOTE: The emission level was or more than 2dB below the Average limit, so no re-check anymore.

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Radiated Emission

Model: ONYX-193 Test Mode: Mode 1

Temperature: 26°C **Humidity:** 56% RH

Test Results: Passed **Tested by:** Peter Jou

(The chart below shows the highest readings taken from the final data, see Appendix III for details.)

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| Six Highest Radiated Emission Readings | | | | | | | | |
|--|-------------------------|---------------|----------------|---------------------------|-----------------------|----------------------|---------------|--|
| Frequency Range Investigated | | | 30 | MHz to 100 | 0 MHz at 1 | 0m | | |
| Freq (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Reading Type (P/Q/A) | Pol. (H/V) | |
| 125.010 | 34.45 | -9.25 | 25.20 | 30.00 | -4.80 | Q | V | |
| 169.000 | 34.70 | -11.04 | 23.66 | 30.00 | -6.34 | Q | V | |
| 217.450 | 35.30 | -10.59 | 24.71 | 30.00 | -5.29 | Q | V | |
| 480.040 | 35.12 | -2.35 | 32.77 | 37.00 | -4.23 | Q | V | |
| 400.040 | 34.12 | -4.11 | 30.01 | 37.00 | -6.99 | Q | Н | |
| 480.050 | 33.00 | -2.35 | 30.65 | 37.00 | -6.35 | Q | Н | |

NOTE: None.

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8 POWER HARMONICS TEST

Port : AC Power Port

Basic Standard: EN 61000-3-2 (2000)

Limits : \Box CLASS A; \Box CLASS B; \Box CLASS C; \boxtimes CLASS D

Tested by : Kevin Chang

Temperature : 20°C **Humidity** : 45%

Limit:

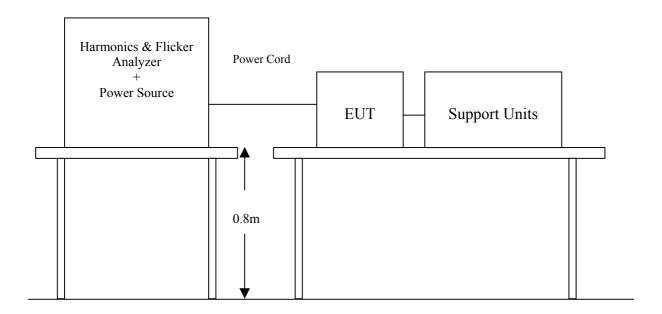
| Limits for Class A equipment | | | |
|------------------------------|-------------------|--|--|
| Harmonics | Max. permissible | | |
| Order | harmonics current | | |
| n | A | | |
| Od | ld harmonics | | |
| 3 | 2.30 | | |
| 5 | 1.14 | | |
| 7 | 0.77 | | |
| 9 | 0.40 | | |
| 11 | 0.33 | | |
| 13 | 0.21 | | |
| 15<=n<=39 0.15x15/n | | | |
| Eve | en harmonics | | |
| 2 | 1.08 | | |
| 4 | 0.43 | | |
| 6 | 0.30 | | |
| 8<=n<=40 | 0.23x8/n | | |

| Limits for Class D equipment | | | | |
|------------------------------|--|------------------------------------|--|--|
| Harmonics Order n | Max. permissible harmonics current per watt mA/W | Max. permissible harmonics current | | |
| | Odd Harmonics only | / | | |
| 3 | 3.4 | 2.30 | | |
| 5 | 1.9 | 1.14 | | |
| 7 | 1.0 | 0.77 | | |
| 9 | 0.5 | 0.40 | | |
| 11 | 0.35 | 0.33 | | |
| 13 | 0.30 | 0.21 | | |
| 15<=n<=39 | 3.85/n | 0.15x15/n | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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Block Diagram of Test Setup:

Test Procedure:

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

<u>Test Result</u>: (See Appendix II for details)

| | PASS | ☐ FAIL | |
|-------------|-------------|--------|--|
| Note: None. | | | |

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9 POWER VOLTAGE FLUCTUATION / FLICKER TEST

Date of Issue: October 31, 2005

Port : AC Power Port

Basic Standard : EN 61000-3-3 (1995 + A1: 2001)

Limits : §5 of EN 61000-3-3

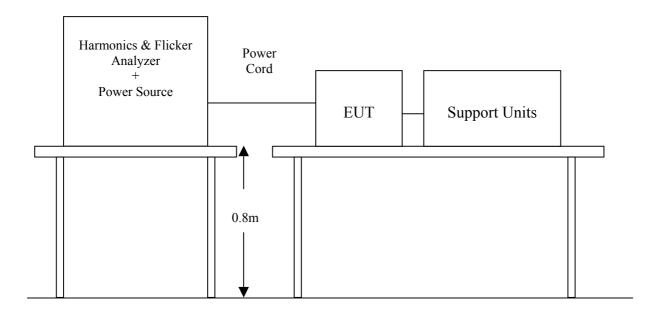
Tested by : Kevin Chang

Temperature : 20°C **Humidity** : 45%

Limit:

| TEST ITEM | LIMIT | REMARK |
|----------------------|-------|---|
| P _{st} | 1.0 | P _{st} means short-term flicker indicator. |
| P _{lt} | 0.65 | P _{lt} means long-term flicker indicator. |
| T _{dt} (ms) | 500 | T _{dt} means maximum time that dt exceeds 3 %. |
| d _{max} (%) | 4% | d _{max} means maximum relative voltage change. |
| dc (%) | 3.3% | dc means relative steady-state voltage change |

Block Diagram of Test Setup:



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Test Procedure:

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.

b. During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

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Test Result: (See Appendix II for details)

| Test Parameter | Measurement Value | Limit | Result |
|----------------------|-------------------|-------|--------|
| P_{st} | 0.001 | 1.0 | Pass |
| P _{lt} | 0.001 | 0.65 | Pass |
| T _{dt} (ms) | 0.0 | 500 | Pass |
| d _{max} (%) | 0.00 | 4% | Pass |
| dc (%) | 0.00 | 3.3% | Pass |

Note: None.

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10 ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port : Enclosure

Basic Standard: IEC/EN 61000-4-2

Test Level : ± 2 , 4, 8 kV (Air Discharge)

±2, 4, 6 kV (Contact Discharge)

Performance Criterion: The Equipment or System shall be able to provide the

essential performance and remain safe.

Date of Issue: October 31, 2005

Tested by : Sam Su

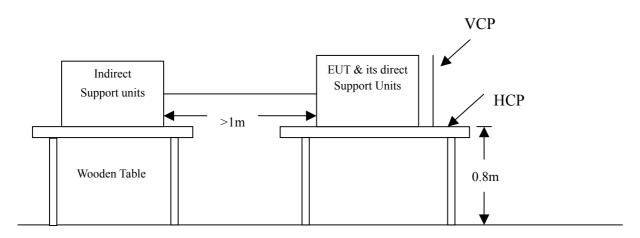
Temperature : 20°C

Humidity : 45% RH

Pressure : 1005mbar

Block Diagram of Test Setup:

(The 470 k Ω resistors are installed per standard requirement.)



Ground Reference Plane

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Test Procedure:

The electrostatic discharges were applied as follows:

| Amount of Discharges | Voltage | Coupling | Result (Pass/Fail) |
|-----------------------------|--|--------------------------------|--------------------|
| \geq 20 / Point | \geq 20 / Point \pm 2, 4, 8 kV Air Discharge | | Pass |
| ≥20 / Point | ± 2, 4, 6 kV | Contact Discharge | Pass |
| ≥20 / Point | ± 2, 4, 6 kV | Indirect Discharge HCP | Pass |
| ≥20 / Point | ± 2, 4, 6 kV | Indirect Discharge VCP (Front) | Pass |
| ≥20 / Point | ± 2, 4, 6 kV | Indirect Discharge VCP (Left) | Pass |
| ≥20 / Point | ± 2, 4, 6 kV | Indirect Discharge VCP (Back) | Pass |
| ≥20 / Point | ± 2, 4, 6 kV | Indirect Discharge VCP (Right) | Pass |

Date of Issue: October 31, 2005

(Blue Arrow Mark For Contact Discharge And Red Arrow Mark For Air Discharge)

Observation: No function degraded during the tests.

Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm
- Error of a displayed numerical value sufficiently large to affect diagnosis or treatment
- Noise on a waveform in which the noise is indistinguishable from physiologically-produced signals or the noise interferes with interpretation of physiologically-produced signals
- Artefact or distortion in an image in which the artefact is indistinguishable from physiologically-produced signals or the distortion interferes with interpretation of physiologically-produced signals
- Failure of automatic diagnosis or treatment EQUIPMENT and SYSTEMS to diagnose or treat, even if accompanied by an alarm.

For EQUIPMENT and SYSTEMS with multiple FUNCTIONS, the criteria apply to each FUNCTION, parameter and channel.

The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety.

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^{**}For the tested points to EUT, please refer to attached page.



The Tested Points of EUT

Photo <u>1 of 5</u>



Photo 2 of 5



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Photo 3 of 5



Photo 4 of 5



Photo <u>5 of 5</u>



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11 RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port : Enclosure

Basic Standard: IEC/EN 61000-4-3

Requirements : 3 V/m with 80% AM, 1kHz Modulation.

Performance Criterion: The Equipment or System shall be able to provide the

essential performance and remain safe.

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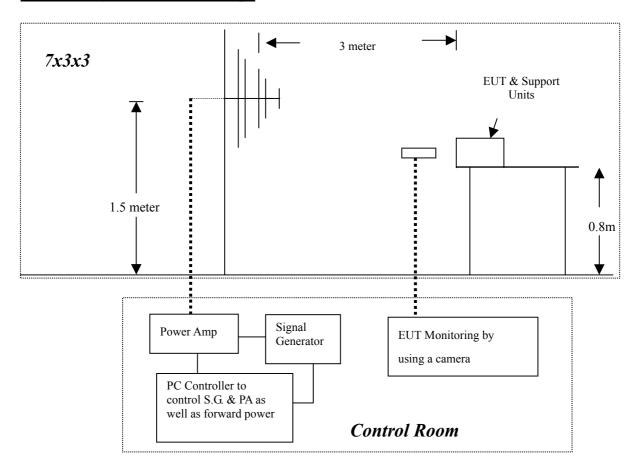
Tested by : Kevin Chang

Temperature : 20°C

Humidity : 45% RH

Pressure : 1005mbar

Block Diagram of Test Setup:



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Test Procedure:

Frequency Range $80 \text{MHz} \sim 2500 \text{MHz}$ Steps : 1 % of fundamental

Dwell Time : 3 sec

| Range (MHz) | Field | Modulation | Polarity | Position | Result (Pass/Fail) |
|-------------|-------|------------|----------|----------|--------------------|
| 80-2500 | 3V/m | Yes | Н | 0 | Pass |
| 80-2500 | 3V/m | Yes | V | 0 | Pass |
| 80-2500 | 3V/m | Yes | Н | 90 | Pass |
| 80-2500 | 3V/m | Yes | V | 90 | Pass |
| 80-2500 | 3V/m | Yes | Н | 180 | Pass |
| 80-2500 | 3V/m | Yes | V | 180 | Pass |
| 80-2500 | 3V/m | Yes | Н | 270 | Pass |
| 80-2500 | 3V/m | Yes | V | 270 | Pass |

Date of Issue: October 31, 2005

Observation: No function degraded during the tests.

Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm
- Error of a displayed numerical value sufficiently large to affect diagnosis or treatment
- Noise on a waveform in which the noise is indistinguishable from physiologically-produced signals or the noise interferes with interpretation of physiologically-produced signals
- Artefact or distortion in an image in which the artefact is indistinguishable from physiologically-produced signals or the distortion interferes with interpretation of physiologically-produced signals
- Failure of automatic diagnosis or treatment EQUIPMENT and SYSTEMS to diagnose or treat, even if accompanied by an alarm.

For EQUIPMENT and SYSTEMS with multiple FUNCTIONS, the criteria apply to each FUNCTION, parameter and channel.

The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety.

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12 FAST TRANSIENTS/BURST IMMUNITY TEST

Port : AC Power Port and RJ45 Port

Basic Standard: IEC/EN 61000-4-4

Requirements : $\pm 2 \text{ kV for AC Power Port}$

± 1 kV for RJ45 Port

Performance Criterion: The Equipment or System shall be able to provide the

essential performance and remain safe.

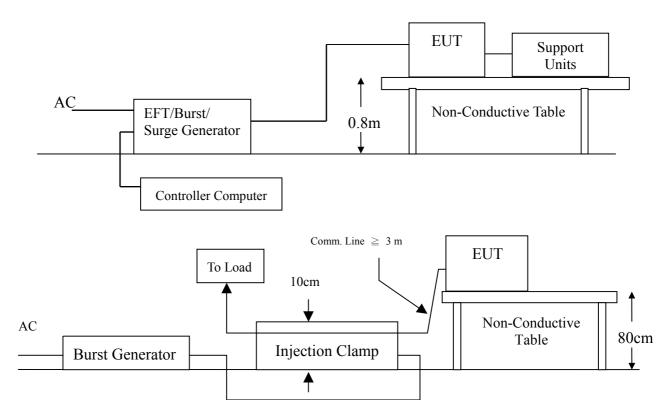
Date of Issue: October 31, 2005

Tested by : Kevin Chang

Temperature : 20°C Humidity : 45%

Pressure : 1005mbar

Block Diagram of Test Setup:



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Test Procedure:

Impulse Frequency: 5kHz
Tr/Th: 5/50ns
Burst Duration: 15ms
Burst Period: 300ms

| Inject Line | Voltage kV | Inject Method | Result (Pass/Fail) |
|-------------|------------|---------------|--------------------|
| L | ± 2 | Direct | Pass |
| N | ± 2 | Direct | Pass |
| PE | ± 2 | Direct | Pass |
| L + N | ± 2 | Direct | Pass |
| L + PE | ± 2 | Direct | Pass |
| N + PE | ± 2 | Direct | Pass |
| L + N + PE | ± 2 | Direct | Pass |
| RJ45 | ± 1 | Clamp | Pass |

Date of Issue: October 31, 2005

Observation: As \pm 1 kV EFT applying to LAN port, the data transmitting was pause during test. It could become normal after test stop.

Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm
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- Failure of automatic diagnosis or treatment EQUIPMENT and SYSTEMS to diagnose or treat, even if accompanied by an alarm.

For EQUIPMENT and SYSTEMS with multiple FUNCTIONS, the criteria apply to each FUNCTION, parameter and channel.

The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety.

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13 SURGE IMMUNITY TEST

Port : AC Power Port

Basic Standard: IEC/EN 61000-4-5

Requirements : $\pm 0.5 \text{ kV} \cdot \pm 1 \text{ kV}$ (Line to Line) for AC Power Port

 \pm 0.5 kV \cdot \pm 1 kV \cdot \pm 2 kV (Line to Ground) for AC Power Port

Date of Issue: October 31, 2005

Performance Criteria: The Equipment or System shall be able to provide the essential

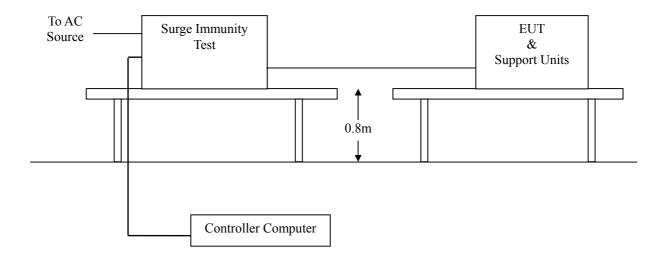
performance and remain safe.

Tested by : Kevin Chang

Temperature : 20°C Humidity : 45%

Pressure : 1005mbar

Block Diagram of Test Setup:



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Test Procedure:

Voltage Waveform : $1.2/50 \mu s$ Current Waveform : $8/20 \mu s$

Polarity : Positive/Negative Phase angle : 0°, 90°, 180°, 270°, 359°

Number of Test : 5

| Coupling Line | Voltage (kV) | Polarity | Coupling Method | Result (Pass/Fail) |
|----------------------|-----------------------------------|----------|------------------------|--------------------|
| L1-L2 | ±0.5 \ ±1 | Positive | Capacitive | Pass |
| L1-PE | $\pm 0.5 \cdot \pm 1 \cdot \pm 2$ | Positive | Capacitive | Pass |
| L2-PE | $\pm 0.5 \cdot \pm 1 \cdot \pm 2$ | Positive | Capacitive | Pass |
| L1-L2 | ±0.5 \ ±1 | Negative | Capacitive | Pass |
| L1-PE | $\pm 0.5 \cdot \pm 1 \cdot \pm 2$ | Negative | Capacitive | Pass |
| L2-PE | ±0.5 \ ±1 \ ±2 | Negative | Capacitive | Pass |

Date of Issue: October 31, 2005

Observation: Where normal functioning of LAN can't be achieved because of the impact of CDN on the EUT, no test be required.

Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
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- Failure of automatic diagnosis or treatment EQUIPMENT and SYSTEMS to diagnose or treat, even if accompanied by an alarm.

For EQUIPMENT and SYSTEMS with multiple FUNCTIONS, the criteria apply to each FUNCTION, parameter and channel.

The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety.

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14 CONDUCTED DISTRBANCE/INDUCED RADIO-FREQUENCY FIELD IMMUNITY TEST

Port : AC Power Port and RJ45 Port

Basic Standard: IEC/EN 61000-4-6

Requirements : 3 V with 80% AM, 1kHz Modulation.

Injection Method : CDN-M3 for AC Power Port

CDN-T4 for RJ45 Port

Performance Criterion: The Equipment or System shall be able to provide the

essential performance and remain safe.

Date of Issue: October 31, 2005

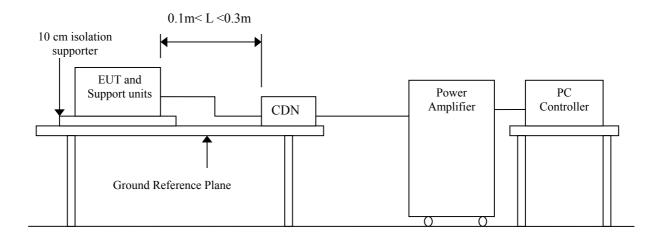
Tested by : Kevin Chang

Temperature : 20°C

Humidity: 45%

Pressure : 1005mbar

Block Diagram of Test Setup:



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Test Procedure:

Frequency Range : 0.15MHz-80MHz Frequency Step : 1% of fundamental

Dwell Time : 3 sec

| Range (MHz) | Field | Modulation | Result (Pass/Fail) |
|-------------|-------|------------|--------------------|
| 0.15-80 | 3V | Yes | Pass |

Date of Issue: October 31, 2005

Observation: No function degraded during the tests.

Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm
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The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety.

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15 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

Port : Enclosure

Basic Standard: IEC/EN 61000-4-8

Requirements : 3 A/m, 50/60Hz

Performance Criterion: The Equipment or System shall be able to provide the

essential performance and remain safe.

Date of Issue: October 31, 2005

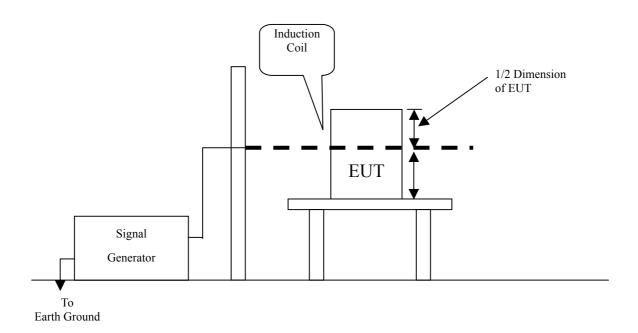
Tested by : Sam Su

Temperature : 20°C

Humidity : 45% RH

Pressure : 1005mbar

Block Diagram of Test Setup:



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Test Procedure:

Field Strength: 3A/m Power Freq.: 50Hz, 60Hz Orientation: X, Y, Z

| Orientation | Field | Result | Remark |
|-------------|------------|--------|--|
| X | 3A/m, 50Hz | Pass | No any function degraded during the tests. |
| Y | 3A/m, 50Hz | Pass | No any function degraded during the tests. |
| Z | 3A/m, 50Hz | Pass | No any function degraded during the tests. |
| X | 3A/m, 60Hz | Pass | No any function degraded during the tests. |
| Y | 3A/m, 60Hz | Pass | No any function degraded during the tests. |
| Z | 3A/m, 60Hz | Pass | No any function degraded during the tests. |

Date of Issue: October 31, 2005

Observation: No function degraded during the tests.

Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm
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16 VOLTAGE DIPS / SHORT INTERRUPTIONS

Port : AC Power Port

Basic Standard: IEC/EN 61000-4-11

Requirement: PHASE ANGLE 0°, 180°

| | Test Level % U _T | Reduction (%) | Duration (periods) |
|-----------------|--------------------------------|---------------|----------------------|
| Voltage Dips | <5 | >95 | 0.5 |
| | 40 | 60 | 5 |
| | 70 | 30 | 25 |

Date of Issue: October 31, 2005

| Voltage Interruptions | Test Level % U _T | Reduction (%) | Duration (second) |
|--------------------------|--------------------------------|---------------|---------------------|
| interruptions | <5 | >95 | 5 |

Test Interval : Min. 10 sec.

Performance Criteria: The Equipment or System shall be able to provide the

essential performance and remain safe.

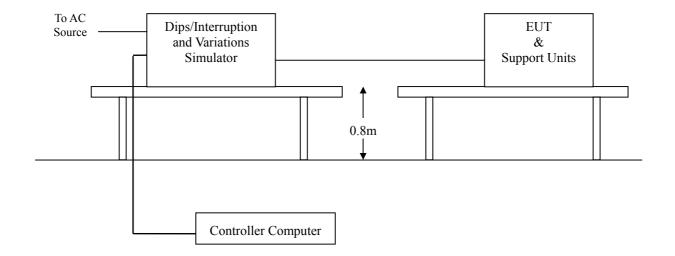
Tested by : Sam Su

Temperature : 20°C

Humidity: 45%

Pressure : 1005mbar

Block Diagram of Test Setup:



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Test Procedure:

The duration with a sequence of three dips/interruptions with interval of 10 s minimums (Between each test event)

Date of Issue: October 31, 2005

Voltage Dips:

| Test Level % U _T | Reduction (%) | Duration (periods) | Observation | Result |
|--------------------------------|---------------|----------------------|-------------|--------|
| 0 | 100 | 0.5 | Normal | A |
| 40 | 60 | 5 | Normal | A |
| 70 | 30 | 25 | Normal | A |

Voltage Interruptions:

| Test Level % U _T | Reduction (%) | Duration (second) | Observation | Result |
|--------------------------------|---------------|---------------------|--|--------|
| 0 | 100 | 5 | EUT shut down, but EUT can be auto recovered after power turn on. | С |

Note:

- 1. Normal No any functions degrade during and after the test.
- 2. For Voltage Interruption, EQUIPMENT and SYSTEMS are allowed a deviation from the requirements of 36.202.1) at the IMMUNITY TEST LEVEL specified in Table 211, provided the EQUIPMENT or SYSTEM remains safe, experiences no component failures and is restorable to the pre-test state with OPERATOR intervention. Determination of compliance is based upon performance of the EQUIPMENT or SYSTEM during and after application of the test sequence.

Observation: No function degraded during the tests.

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Compliance Criteria:

Under the test conditions specified in 36.202, the EQUIPMENT or SYSTEM shall be able to provide the ESSENTIAL PERFORMANCE and remain safe. The following DEGRADATIONS associated with ESSENTIAL PERFORMANCE and safety shall not be allowed:

Date of Issue: October 31, 2005

- Component failures
- Changes in programmable parameters
- Reset to factory defaults (manufacturer's presets)
- Chang of operating mode
- False alarms
- Cessation or interruption of any intended operation, even if accompanied by an alarm
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm
- Error of a displayed numerical value sufficiently large to affect diagnosis or treatment
- Noise on a waveform in which the noise is indistinguishable from physiologically-produced signals or the noise interferes with interpretation of physiologically-produced signals
- Artefact or distortion in an image in which the artefact is indistinguishable from physiologically-produced signals or the distortion interferes with interpretation of physiologically-produced signals
- Failure of automatic diagnosis or treatment EQUIPMENT and SYSTEMS to diagnose or treat, even if accompanied by an alarm.

For EQUIPMENT and SYSTEMS with multiple FUNCTIONS, the criteria apply to each FUNCTION, parameter and channel.

The EQUIPMENT or SYSTEM may exhibit DEGRADATION of performance (e.g. deviation from manufacturer's specifications) that does not affect ESSENTIAL PERFORMANCE or safety.

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APPENDIX I - PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST (EN 55011)





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RADIATED EMISSION TEST (EN 55011)



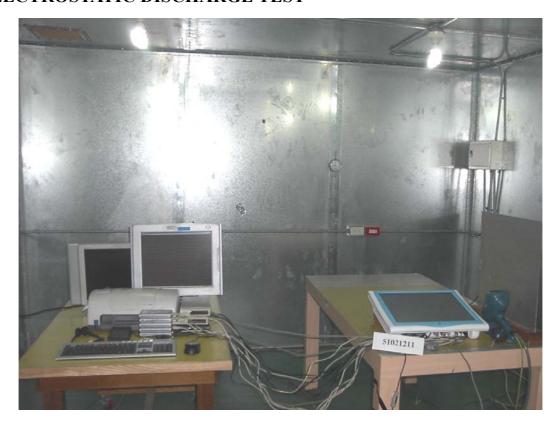


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POWER HARMONIC & VOLTAGE FLUCTUATION / FLICKER TEST



ELECTROSTATIC DISCHARGE TEST



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RADIATED ELECTROMAGNETIC FIELD TEST



FAST TRANSIENTS/BURST TEST



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FAST TRANSIENTS/BURST TEST (IEC 61000-4-4 FOR I/O)



SURGE IMMUNITY TEST



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CONDUCTED DISTURBANCE, INDUCED BY RADIO-FREQUENCY FIELDS TEST



CONDUCTED DISTURBANCE, INDUCED BY RADIO-FREQUENCY FIELDS TEST (IEC 61000-4-6 FOR I/O)



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POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST



VOLTAGE DIPS / INTERRUPTION TEST

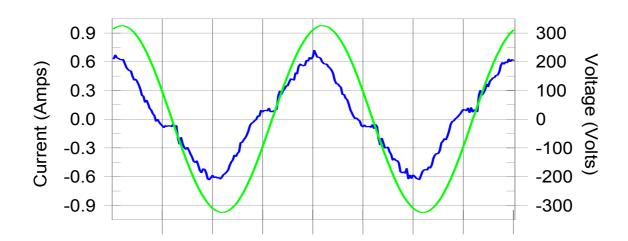


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APPENDIX II – TEST RESULT OF EN 61000-3-2/-3

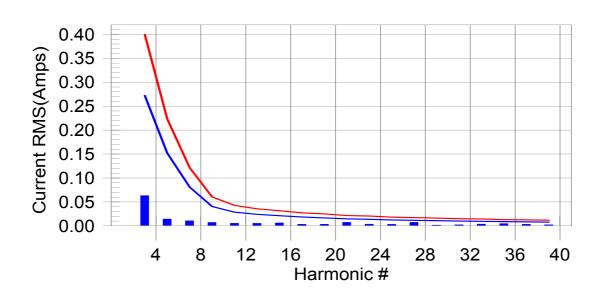
Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class D limit line

European Limits



Test result: Pass Worst harmonic was #27 with 42.53 % of the limit.

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Date of Issue: October 31, 2005

Test Result: Pass Source qualification: Normal

THC(A): 0.069 I-THD(pk%): 19.022 POHC(A): N/A POHC Limit(A): N/A

Highest parameter values during test:

V_RMS (Volts): 230.08

I_Peak (Amps): 0.718 I_RMS (Amps): 0.398 I_Fund (Amps): 0.401 **Crest Factor:** 1.847 Power (Watts): 86 **Power Factor:** 0.940

| Harm# | Harms(avg) | 100%Limit | %of Limit | Harms(max) | 150%Limit | %of Limit | Status |
|----------------------|----------------|-----------|-----------|------------|-----------|-----------|--------|
| 2 | 0.000 | | | | | | |
| 3 | 0.063 | 0.272 | 23.1 | 0.063 | 0.400 | 15.81 | Pass |
| 4 | 0.000 | | | | | | |
| 5 | 0.014 | 0.152 | 9.3 | 0.014 | 0.224 | 6.44 | Pass |
| 6 | 0.000 | | | | | | |
| 7 | 0.010 | 0.081 | 12.4 | 0.011 | 0.121 | 8.77 | Pass |
| 8 | 0.000 | | | | | | |
| 9 | 0.007 | 0.040 | 16.5 | 0.007 | 0.061 | 11.76 | Pass |
| 10 | 0.000 | | | | | | |
| 11 | 0.004 | 0.029 | 15.0 | 0.005 | 0.043 | 12.69 | Pass |
| 12 | 0.000 | | | | | | _ |
| 13 | 0.004 | 0.024 | 18.5 | 0.005 | 0.036 | 14.78 | Pass |
| 14 | 0.000 | | | | | | _ |
| 15 | 0.006 | 0.021 | 26.5 | 0.006 | 0.031 | 19.33 | Pass |
| 16 | 0.000 | 0.040 | 40.0 | 0.000 | 0.007 | 40.70 | D |
| 17 | 0.003 | 0.018 | 16.6 | 0.003 | 0.027 | 12.70 | Pass |
| 18 | 0.000 | 0.047 | 40.0 | 0.000 | 0.005 | 44.00 | D |
| 19 | 0.003 | 0.017 | 18.2 | 0.003 | 0.025 | 14.00 | Pass |
| 20 21 | 0.000 0.007 | 0.045 | 48.0 | 0.007 | 0.022 | 22.72 | Door |
| 21 | 0.007 | 0.015 | 40.0 | 0.007 | 0.022 | 33.72 | Pass |
| 23 | 0.000 | 0.014 | 20.0 | 0.004 | 0.020 | 18.20 | Pass |
| 23 24 | 0.000 | 0.014 | 20.0 | 0.004 | 0.020 | 10.20 | Fa55 |
| 2 4 25 | 0.003 | 0.012 | 21.2 | 0.003 | 0.018 | 18.42 | Pass |
| 26 | 0.000 | 0.012 | 21.2 | 0.003 | 0.010 | 10.42 | газэ |
| 27 | 0.007 | 0.011 | 58.7 | 0.007 | 0.017 | 42.53 | Pass |
| 28 | 0.000 | 0.011 | 00 | 0.007 | 0.011 | 72.00 | . 400 |
| 29 | 0.001 | 0.011 | 8.8 | 0.002 | 0.016 | 10.28 | Pass |
| 30 | 0.000 | | | | | | |
| 31 | 0.002 | 0.010 | 19.5 | 0.002 | 0.015 | 15.47 | Pass |
| 32 | 0.000 | | | | | | |
| 33 | 0.003 | 0.009 | 37.2 | 0.004 | 0.014 | 26.93 | Pass |
| 34 | 0.000 | | | | | | |
| 35 | 0.005 | 0.009 | 52.8 | 0.005 | 0.013 | 37.87 | Pass |
| 36 | 0.000 | | | | | | |
| 37 | 0.003 | 0.008 | 36.9 | 0.003 | 0.012 | 27.92 | Pass |
| 38 | 0.000 | | | | | | |
| 39 | 0.002 | 0.008 | 28.5 | 0.003 | 0.012 | 21.29 | Pass |
| 40 | 0.000 | | | | | | |

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Report No.: 51021211-E Date of Issue: October 31, 2005

Test Result: Pass Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.08

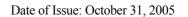
 I_Peak (Amps):
 0.718
 I_RMS (Amps):
 0.398

 I_Fund (Amps):
 0.401
 Crest Factor:
 1.847

 Power (Watts):
 86
 Power Factor:
 0.940

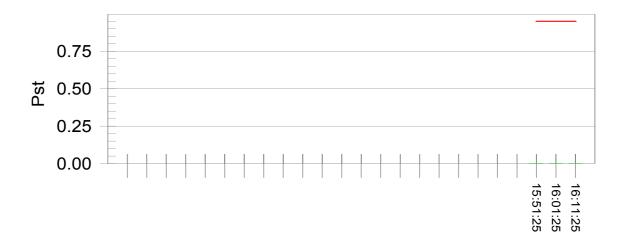
| Harm# | Harmonics V-rms | Limit V-rms | % of Limit | Status |
|-------|-----------------|-------------|------------|--------|
| 2 | 0.125 | 0.459 | 27.30 | ОК |
| 3 | 0.387 | 2.068 | 18.71 | OK |
| 4 | 0.047 | 0.460 | 10.27 | OK |
| 5 | 0.037 | 0.920 | 4.00 | OK |
| 6 | 0.093 | 0.460 | 20.27 | OK |
| 7 | 0.038 | 0.690 | 5.45 | OK |
| 8 | 0.035 | 0.460 | 7.50 | OK |
| 9 | 0.050 | 0.460 | 10.88 | OK |
| 10 | 0.024 | 0.459 | 5.29 | OK |
| 11 | 0.068 | 0.230 | 29.47 | OK |
| 12 | 0.023 | 0.230 | 9.90 | OK |
| 13 | 0.040 | 0.230 | 17.60 | OK |
| 14 | 0.018 | 0.230 | 7.79 | OK |
| 15 | 0.024 | 0.230 | 10.64 | OK |
| 16 | 0.018 | 0.230 | 7.91 | OK |
| 17 | 0.017 | 0.230 | 7.28 | OK |
| 18 | 0.045 | 0.230 | 19.43 | OK |
| 19 | 0.013 | 0.230 | 5.63 | OK |
| 20 | 0.029 | 0.230 | 12.78 | OK |
| 21 | 0.020 | 0.230 | 8.78 | OK |
| 22 | 0.024 | 0.230 | 10.33 | OK |
| 23 | 0.069 | 0.230 | 30.15 | OK |
| 24 | 0.026 | 0.230 | 11.36 | OK |
| 25 | 0.098 | 0.230 | 42.58 | OK |
| 26 | 0.039 | 0.230 | 16.93 | OK |
| 27 | 0.045 | 0.230 | 19.77 | OK |
| 28 | 0.035 | 0.230 | 15.39 | OK |
| 29 | 0.026 | 0.230 | 11.35 | ОК |
| 30 | 0.043 | 0.230 | 18.66 | ОК |
| 31 | 0.011 | 0.230 | 4.97 | OK |
| 32 | 0.016 | 0.230 | 6.77 | OK |
| 33 | 0.015 | 0.230 | 6.45 | OK |
| 34 | 0.009 | 0.230 | 4.13 | OK |
| 35 | 0.020 | 0.230 | 8.85 | OK |
| 36 | 0.010 | 0.230 | 4.17 | OK |
| 37 | 0.022 | 0.230 | 9.49 | OK |
| 38 | 0.008 | 0.230 | 3.62 | OK |
| 39 | 0.008 | 0.230 | 3.58 | OK |
| 40 | 0.010 | 0.230 | 4.36 | OK |

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Test Result: Pass Status: Test Completed

Pst_i and limit line European Limits



Time is too short for Plt plot

Parameter values recorded during the test:

| Vrms at the end of test (Volt): | 229.68 | | | |
|---------------------------------|--------|------------------|-------|------|
| Highest dt (%): | 0.00 | Test limit (%): | 3.14 | Pass |
| Time(mS) > dt: | 0.0 | Test limit (mS): | 500.0 | Pass |
| Highest dc (%): | 0.00 | Test limit (%): | 3.14 | Pass |
| Highest dmax (%): | 0.00 | Test limit (%): | 3.80 | Pass |
| Highest Pst (10 min. period): | 0.001 | Test limit: | 0.950 | Pass |
| Highest Plt (2 hr. period): | 0.001 | Test limit: | 0.617 | Pass |

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Date of Issue: October 31, 2005

APPENDIX III -TEST RESULT OF FINAL DATAS

Conducted Emission Plot

Radiated Emission Data

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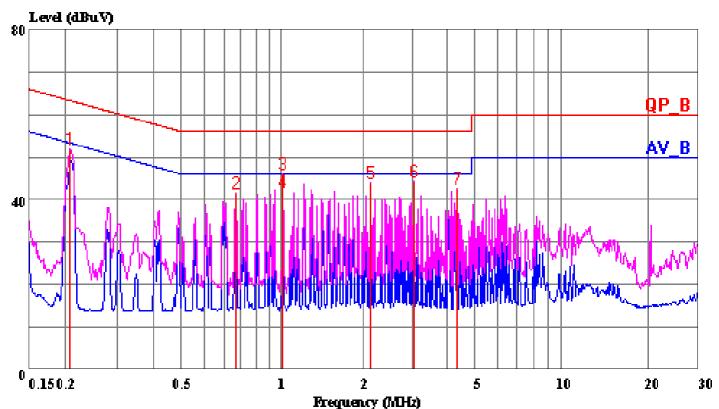


No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Page: 1

Tel:02-2217-0894 Fax:02-2217-1029

Data#: 18 File#: 51021211cb.EMI Date: 2005-10-24 Time: 14:43:26



(CCS Conduction B)

Trace: 15 14 Ref Trace:

Condition: LINE

Report No. : 51021211 Test Engr. : ALEX PAN

Company : AAEON Technology Inc.

EUT : ONYX-193

Test Config : EUT / ALL PERIPHERALS

Type of Test: EN 55011 CLASS B

Mode of Op. : LCD+Panel(1280X1024, VF=75Hz)/WORST

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|-------|---------------|--------|-------|---------------|---------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | |
| 1 | 0.207 | 41.98 | 9.97 | 51.95 | 63.32 | -11.37 | Peak |
| 2 | 0.767 | 31.70 | 10.00 | 41.70 | 56.00 | -14.30 | Peak |
| 3 | 1.117 | 36.14 | 10.03 | 46.17 | 56.00 | -9.83 | Peak |
| 4 | 1.117 | 32.02 | 10.03 | 42.05 | 46.00 | -3.95 | Average |
| 5 | 2.237 | 33.83 | 10.14 | 43.97 | 56.00 | -12.03 | Peak |
| 6 | 3.140 | 34.20 | 10.15 | 44.36 | 56.00 | -11.64 | Peak |
| 7 | 4.454 | 32.43 | 10.20 | 42.63 | 56.00 | -13.37 | Peak |

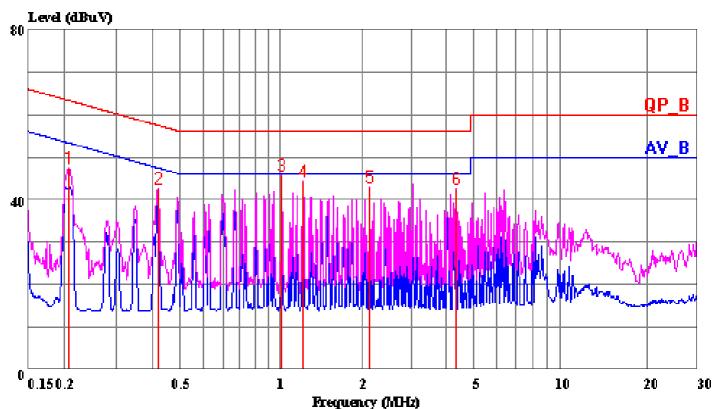


No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Page: 1

Tel:02-2217-0894 Fax:02-2217-1029

Data#: 13 File#: 51021211cb.EMI Date: 2005-10-24 Time: 14:39:26



(CCS Conduction B)

Trace: 12 11 Ref Trace:

Condition: NEUTRAL
Report No. : 51021211
Test Engr. : ALEX PAN

Company : AAEON Technology Inc.

EUT : ONYX-193

Test Config : EUT / ALL PERIPHERALS

Type of Test: EN 55011 CLASS B

Mode of Op. : LCD+Panel(1280X1024, VF=75Hz)/WORST

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|-----|----------------|----------------|--------------|-------|---------------|------------------|--------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | |
| 1 2 | 0.207 0.419 | 37.51 32.69 | 9.97 9.97 | | | -15.84 -14.80 | |
| 3 | 1.117 | 35.65 | 10.01 | | | -10.34 | |
| 4 | 1.317 | 34.31 | 10.02 | 44.33 | 56.00 | -11.67 | Peak |
| 5 | 2.237 | 33.08 | 10.04 | 43.12 | 56.00 | -12.88 | Peak |
| 6 | 4.454 | 32.54 | 10.10 | 42.64 | 56.00 | -13.36 | Peak |

Site #I

Tel: +886-2-2217-0894 Fax: +886-2-2217-1029

No. 165, Chung Sheng Rd., Hsin Tien City, Taipei, Taiwan. (Hsin Tien Lab.)

Job No.: 51021211 Standard: CISPR 22-10m-B Tested Distance: 10m Date: 2005/10/21

Temp.($^{\circ}$) / Hum.($^{\circ}$):26 $^{\circ}$ C/56 $^{\circ}$ Company: AAEON Technology Inc.

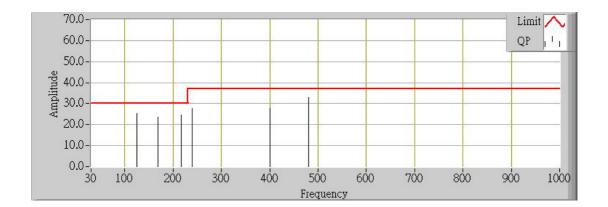
Model: ONYX-193

Test Mode / Description:

LCD+Panel (1280X1024, VF=75Hz)/WORST

Test Item: EN 55011 CLASS B Power Source: 230VAC, 50Hz

Ant. Polar: Vertical Time: PM 04:45 Tested By: Peter Jou Trade Name: AAEON



| No. | Freq. | Reading | factor | Result | Limit | Margin | Degree | Height | Remark |
|-----|---------|---------|--------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (°) | (cm) | |
| 1 | 125.010 | 34.45 | -9.25 | 25.20 | 30.00 | -4.80 | 0.00 | 0.00 | QP |
| 2 | 169.000 | 34.70 | -11.04 | 23.66 | 30.00 | -6.34 | 0.00 | 0.00 | QP |
| 3 | 217.450 | 35.30 | -10.59 | 24.71 | 30.00 | -5.29 | 0.00 | 0.00 | QP |
| 4 | 240.050 | 36.41 | -8.63 | 27.78 | 37.00 | -9.22 | 0.00 | 0.00 | QP |
| 5 | 400.050 | 32.00 | -4.11 | 27.89 | 37.00 | -9.11 | 0.00 | 0.00 | QP |
| 6 | 480.040 | 35.12 | -2.35 | 32.77 | 37.00 | -4.23 | 0.00 | 0.00 | QP |

No. 165, Chung Sheng Rd., Hsin Tien City, Taipei, Taiwan. (Hsin Tien Lab.)

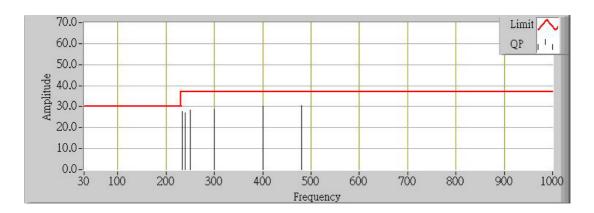
Job No.: 51021211 Test Item: EN 55011 CLASS B Standard: CISPR 22-10m-B Power Source: 230VAC, 50Hz

Tel: +886-2-2217-0894 Fax: +886-2-2217-1029

Tested Distance: 10m Ant. Polar: Horizontal Date: 2005/10/21 Time: PM 05:19 Temp.($^{\circ}$) / Hum.($^{\circ}$):26 $^{\circ}$ C/56 $^{\circ}$ Tested By: Peter Jou Company: AAEON Technology Inc. Trade Name: AAEON

Model: ONYX-193 Test Mode / Description:

LCD+Panel (1280X1024, VF=75Hz)/WORST



| No. | Freq. | Reading | factor | Result | Limit | Margin | Degree | Height | Remark |
|-----|---------|---------|--------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (°) | (cm) | |
| 1 | 232.750 | 37.10 | -9.26 | 27.84 | 37.00 | -9.16 | 0.00 | 0.00 | QP |
| 2 | 240.020 | 35.52 | -8.63 | 26.89 | 37.00 | -10.11 | 0.00 | 0.00 | QP |
| 3 | 250.030 | 36.10 | -7.76 | 28.34 | 37.00 | -8.66 | 0.00 | 0.00 | QP |
| 4 | 300.010 | 35.65 | -6.76 | 28.89 | 37.00 | -8.11 | 0.00 | 0.00 | QP |
| 5 | 400.040 | 34.12 | -4.11 | 30.01 | 37.00 | -6.99 | 0.00 | 0.00 | QP |
| 6 | 480.050 | 33.00 | -2.35 | 30.65 | 37.00 | -6.35 | 0.00 | 0.00 | QP |