



**FCC 47 CFR PART 18**

**TEST REPORT**

**For**

**Medical Station**

**Model: XXXXXONYX-150HTy-XX-XXXX**  
**(Where y is T or blank and X is 0-9, A-Z, - or blank)**

**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



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# 1 TEST RESULT CERTIFICATION

**Applicant:** AAEON Technology Inc.  
5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City,  
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:** XXXXXONYX-150HTy-XX-XXXX  
(Where y is T or blank and X is 0-9, A-Z, - or blank)

**Detailed EUT Description:** See Item 2 of this report

**Date of Test:** June 07, 2007 & June 08, 2007

Applicable Standard	Class / Limit	Test Result
FCC Part 18	---	No non-compliance noted
<b>Deviation from Applicable Standard</b>		
None		

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC Rules and Regulations Part 18 and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

**Approved by:**

David Wang  
Manager of Sindian BU  
Compliance Certification Services Inc.

**Reviewed by:**

Vince Chiang  
Assistant Manager of Sindian BU  
Compliance Certification Services Inc.



## 2 EUT DESCRIPTION

<b>Product</b>	Medical Station
<b>Trade Name</b>	AAEON
<b>Model</b>	XXXXXONYX-150HTy-XX-XXXX (Where y is T or blank and X is 0-9, A-Z, - or blank)
<b>Housing Type</b>	Plastic w/ metal plate
<b>EUT Power Rating</b>	15VDC ~ 24VDC from AC Adaptor
<b>AC Power During Test</b>	120VAC / 60Hz to AC Adaptor
<b>AC Adaptor Manufacturer</b>	FSP GROUP INC.
<b>AC Adaptor Model Number</b>	FSP105-AGB
<b>AC Adaptor Power Rating</b>	I/P: 100-240VAC~ 2A, 50-60Hz O/P: 15VDC, 7A
<b>AC Power Cord Type</b>	Unshielded, 1.8m (Detachable) to AC Adaptor
<b>DC Power Cable Type</b>	Unshielded, 1.9m (Non-detachable, with a core) to AC Adaptor
<b>OSC/Clock Frequencies</b>	25MHz; 24.576MHz; 14.31818MHz; 32.768kHz

### I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH
1). PIO Port	1	1
2). SIO Port	4	4
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). Earphone Port	1	1
8). Microphone Port	1	1
9). LAN Port	1	1
10). USB Port	2	2
11). SD Slot	1	1
12). SF Slot	1	1

*Note: Client consigns only one model sample (Model Number is ONYX-150) to test.*



### 3 TEST METHODOLOGY

#### 3.1 EUT SYSTEM OPERATION

1. Windows XP boots system.
2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
3. Run Winemc.exe and choose "F:/ & G:/" to test EUT.
4. Run Winemc.exe and choose media player to play music.
5. Press the start menu, select executive and type ping 192.168.0.2 -t (EUT), ping 192.168.0.1 -t (Server PC).

*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:

**Conduction Mode(s):**

1.	1920X1440, VF=60Hz / CRT MODE
2.	1280X1024, VF=60Hz / CRT MODE
3.	1024X768, VF=60Hz / CRT + EUT MODE
4.	800X600, VF=60Hz / CRT + EUT MODE
6.	640X480, VF=60Hz / CRT + EUT MODE

**Radiation Mode(s):**

1.	1920X1440, VF=60Hz / CRT MODE
	1920X1440, VF=60Hz / CRT MODE / 1-5GHz
2.	1280X1024, VF=60Hz / CRT MODE
3.	1024X768, VF=60Hz / CRT + EUT MODE
4.	800X600, VF=60Hz / CRT + EUT MODE
6.	640X480, VF=60Hz / CRT + EUT MODE

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 recorded for all final test items.



## 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 #	Serial #	FCC ID / BSMI ID	Trade Name
1.	CPU (600MHz)	Celeron M Processor 600MHz	N/A	N/A	Intel
2.	LCD (15")	TFT-LCD CLAA150XP 03	N/A	N/A	CPT
3.	HDD	MHV2080AT/40G	N/A	N/A	Fujitsu
4.	Memory	DSL 256MB DDR 333MHz	N/A	N/A	SAMSUNG
5.	DC-DC POWER	EPD-146-3	N/A	N/A	Excellent Power
6.	DVD ROM	DW-224E-C93	N/A	N/A	TEAC

#### Peripherals Devices:

No	Equipment	Model	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1.	PS/2 Mouse	M071KC	443029438	DoC BSMI: R41108	DELL	Shielded, 1.8m	N/A
2.	PS/2 Keyboard	SK-8110	N/A	DoC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
3.	Player	RQ-L11LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.0m	N/A
4.	Ear. / Mic.	MSB301	N/A	N/A	e-Sense	Unshielded, 1.7m	N/A
5.	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	Terasys	Shielded, 1.8m	N/A
6.	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	Terasys	Shielded, 1.8m	N/A
7.	Printer	C20SX	N/A	BSMI ID: 3902E004	EPSON	Shielded, 1.8m	Unshielded, 1.8m
8.	Monitor	202P40	BZ000405640006	FCC ID: A3KM107 BSMI: R33048	PHILIPS	Shielded, 1.8m with two cores	Unshielded, 1.8m
9.	Modem	1414	N/A	IFAXDM1414	ACEEX	Shielded, 1.8m	Unshielded, 1.8m
10.	Modem	1414	N/A	IFAXDM1414	ACEEX	Shielded, 1.8m	Unshielded, 1.8m
11.	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
12.	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
13.	Server PC	DCNE	CV8DH1S	BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m

*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.

## 5 FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES








All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5, 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.

This accredited organization maintains A2LA accreditation to ISO/IEC 17025 for the specific test listed in A2LA Certificate # 0824-01. The test results included in this report, however, are not covered by this accreditation.

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; 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 61000-4-3, 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 No. 0824-01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	 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, Cisprr 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	 Testing Laboratory 1108
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 SL2-R1-F-0008
Canada	Industry Canada	RSS212, Issue 1	 IC 5742

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



## 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.

### 6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5, ANSI C63.2 and other equivalent 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 # J				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
SITE NSA	CCS	J Site	N/A	10/14/2007
MEASURE RECEIVER	SCHAFFNER	SCR3501	330	06/11/2007
SPECTRUM ANALYZER	ADVANTEST	R3132	120900003	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2800	09/23/2007
PRE-AMPLIFIER	SCHAFFNER	CPA9231A	3629	10/10/2007
CABLE	BELDEN	9913	N-TYPE #J3	08/24/2007
ATTENUATOR	MCL	UNAT-6	AT06-8	12/03/2007
THERMO-HYGRO METER	TFA	N/A	NO.3	10/26/2007
Test S/W	Lab VIEW 5.1			
Above 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	07/04/2007
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/16/2008
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	02/11/2008
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	02/01/2008
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	02/01/2008
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	02/01/2008

**Note:** The measurement uncertainty is less than  $\pm 3.9493\text{dB}$  (30MHz ~ 200MHz) and  $\pm 3.9539\text{dB}$  (200MHz ~ 1000MHz), which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.





<b>Conducted Emission Test Site # B</b>				
<b>EQUIPMENT</b>	<b>MFR</b>	<b>MODEL</b>	<b>SERIAL NUMBER</b>	<b>CAL. DUE</b>
TEST RECEIVER	R&S	ESHS10	843743/015	03/28/2008
LISN (EUT)	EMCO	3825/2	9106-1810	01/03/2008
LISN	EMCO	3825/2	1382	01/03/2008
BNC CABLE	MIYAZAKI	5D-FB	BNC B1	07/13/2007
Pulse Limiter	R&S	ESH3-Z2	100374	08/24/2007
THERMO-HYGRO METER	TOP	HA-202	9303-3	02/04/2008
Test S/W	EMI 32.exe			

*Note: The measurement uncertainty is less than  $\pm 2.0351$ dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.*



## 7 LINE CONDUCTED & RADIATED EMISSION TEST

### 7.1 LIMIT

#### Maximum permissible level of Line Conducted Emission

Frequency (MHZ)	(dBuV)	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

\* Decreases with the logarithm of the frequency.

#### Maximum permissible level of Radiated Emission measured at 3meter

Frequency (MHZ)	Maximum Field Strength Limit (dBu V/m/ Q.P.)
30-88	40
88-216	43.5
216-960	46
Above 960	53.9

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



## 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 ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC power, 120VAC/60Hz, 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 a EMI Test Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to the Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Receiver.
- 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 level 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 step 10 of 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 AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

**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

- 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)



## 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 a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120VAC/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.4. 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 5000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT and loop antenna to 360 degrees, 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 step 8 of the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 5000MHz. Emissions were scanned and measured rotating the EUT and loop antenna to 360 degrees, varying cable placement, 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.

**Data Sample:**

Freq. MHz	Amptd dBuV/m	Margin dB	Limit dBuV/m	Reading dBuV	Factor dB/m	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	29.34	-10.66	40	32.00	-2.66	Q	H

- Freq. = Emission frequency in MHz
- Reading = Uncorrected Analyzer/Receiver reading
- Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
- Amptd = Uncorrected Analyzer/Receiver reading + Factor
- Limit = Limit stated in standard
- Margin = 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**

Margin (dB) = Amptd (dBuV/m) – Limit (dBuV/m)



### 7.4 TEST RESULTS

#### Line Conducted Emission

**Model:** ONYX-150

**Test Mode:** Mode 1

**Temperature:** 27°C

**Humidity:** 65% RH

**Test Results:** Passed

**Tested by:** Alee Shen

(The chart below shows the highest readings taken from the final data.)

Six Highest Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 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)
0.213	40.63	9.85	50.48	63.10	-12.61	P	L1
0.283	39.53	9.86	49.39	60.72	-11.33	P	L1
0.469	34.56	9.87	44.43	56.54	-12.11	P	L1
0.576	34.30	9.87	44.17	56.00	-11.83	P	L1
9.401	36.56	10.05	46.61	60.00	-13.39	P	L1
3.190	32.65	9.92	42.57	56.00	-13.43	P	L2

*NOTE: 1. The emission level was or more than 2dB below the Average limit, so no re-check anymore.  
 2. 0.15MHz to 30MHz test is Applicable Part 15.107 standard.*



**Radiated Emission**

**Model:** ONYX-150

**Test Mode:** Mode 1

**Temperature:** 21°C

**Humidity:** 71% RH

**Test Results:** Passed

**Tested by:** John Yen

(The chart below shows the highest readings taken from the final data.)

<b>Six Highest Radiated Emission Readings</b>							
<b>Frequency Range Investigated</b>				<b>30 MHz to 1000 MHz at 3m</b>			
<b>Freq (MHz)</b>	<b>Amptd (dBuV/m)</b>	<b>Margin (dB)</b>	<b>Limit (dBuV/m)</b>	<b>Reading (dBuV)</b>	<b>Factor (dB/m)</b>	<b>Reading Type (P/Q/A)</b>	<b>Pol. (H/V)</b>
<b>166.1810</b>	<b>36.34</b>	<b>-7.16</b>	<b>43.50</b>	<b>45.81</b>	<b>-9.47</b>	<b>Q</b>	<b>V</b>
<b>249.8750</b>	<b>40.88</b>	<b>-5.12</b>	<b>46.00</b>	<b>47.00</b>	<b>-6.12</b>	<b>Q</b>	<b>V</b>
<b>600.4520</b>	<b>40.60</b>	<b>-5.40</b>	<b>46.00</b>	<b>38.24</b>	<b>2.36</b>	<b>Q</b>	<b>V</b>
<b>135.5660</b>	<b>36.18</b>	<b>-7.32</b>	<b>43.50</b>	<b>44.39</b>	<b>-8.21</b>	<b>Q</b>	<b>H</b>
<b>265.1610</b>	<b>40.12</b>	<b>-5.88</b>	<b>46.00</b>	<b>45.81</b>	<b>-5.69</b>	<b>Q</b>	<b>H</b>
<b>600.1470</b>	<b>40.10</b>	<b>-5.90</b>	<b>46.00</b>	<b>37.73</b>	<b>2.37</b>	<b>Q</b>	<b>H</b>

*NOTE: 30MHz to 1000MHz test is Applicable Part 15.109 standard.*





## APPENDIX I - PHOTOGRAPHS OF TEST SETUP

### LINE CONDUCTED EMISSION TEST



## **RADIATED EMISSION TEST**

