### FCC 47 CFR PART 15 SUBPART B

## **TEST REPORT**

For

**PICMG Full-Size SBC** 

Model: FSB-866G

**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.

No. 165, Chunghsen Road, Hsintien City Taipei Hsien, Taiwan

TEL: (02) 2217-0894 FAX: (02) 2217-1029



Date of Issue: July 26, 2005

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Date of Issue: July 26, 2005

## TABLE OF CONTENTS

1 T	EST RESULT CERTIFICATION	
	UT DESCRIPTION	
	UI DESCRIFITON	······ <del>1</del>
3 T	EST METHODOLOGY	5
3.1	EUT SYSTEM OPERATION	5
3.2	DECISION OF FINAL TEST MODE	5
4 Sl	ETUP OF EQUIPMENT UNDER TEST	6
5 F	ACILITIES AND ACCREDITATIONS	7
5.1	FACILITIES	7
5.2	LABORATORY ACCREDITATIONS AND LISTINGS	7
6 IN	NSTRUMENT AND CALIBRATION	8
6.1	MEASURING INSTRUMENT CALIBRATION	8
6.2		8
7 L	INE CONDUCTED & RADIATED EMISSION TEST	9
7.1	LIMIT	9
7.2	TEST PROCEDURE OF LINE CONDUCTED EMISSION	10
7.3	TEST PROCEDURE OF RADIATED EMISSION	12
7.4		
APPI	ENDIX I - PHOTOGRAPHS OF TEST SETUP	16
A PPI	FNDIX II - TEST RESULT OF FINAL DATAS	18

## TEST RESULT CERTIFICATION

**Applicant: AAEON Technology Inc.** 

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

Date of Issue: July 26, 2005

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:** 

PICMG Full-Size SBC

Trade Name:

**AAEON** 

Model:

FSB-866G

**Detailed EUT Description:** 

See Item 2 of this report

**Date of Test:** 

July 8, 2005 ~ July 16, 2005

Applicable Standard	Class / Limit	Test Result			
FCC Part 15 Subpart B, IC ICES-003	Class A	No non-compliance noted			
Deviation from Applicable Standard					
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 15, Subpart B 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 Hsintien Laboratory

Compliance Certification Services Inc.

Reviewed by:

Vince Chiang

Assistant Manager of Hsintien Laboratory

Compliance Certification Services Inc.

Page 3 Rev. 00

# 2 EUT DESCRIPTION

Product	PICMG Full-Size SBC
Trade Name	AAEON
Model	FSB-866G
Housing Type	N/A
EUT Power Rating	3.3VDC/5VDC/±12VDC from Host PC Power Supply
AC Power During Test	120VAC / 60 Hz to Host PC Power Supply
Power Supply Manufacturer	Seventeam
Power Supply Model Number	ST-300BLV
AC Power Cord Type	Unshielded, 1.8m (Detachable) to Host PC Power Supply
OSC/Clock Frequencies	12MHz; 14.31818MHz; 25MHz; 32.768kHz

Date of Issue: July 26, 2005

### I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH
1). PIO Port	1	1
2). SIO Port	2	2
3). PS/2 one to two adaptor Port	1/1	1/1
4). Video out Port (VGA)	1	1
5). Audio in Port	1	1
6). Microphone Port	1	1
7). Earphone Port	1	1
8). LAN Port	4	4
9). USB 2.0 Port	7	7

Note: Client consigns only one model sample (Model Number is FSB-866G) to test.

Page 4 Rev. 00

## 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.
- 3. Run Emitest.exe choose "0" run all test.
- 4. Run Winemc.exe then select (C:/、E:/、F:/、G:/、H:/、I:/、J:/、K:/) to test USB 2.0 ports.

Date of Issue: July 26, 2005

- 5. Press the start menu, select executive and type ping 192.168.0.2 –t (EUT), ping 192.168.0.1 –t (Server Notebook).
- 6. Press the start menu, select executive and type ping 192.168.1.2 –t (EUT), ping 192.168.1.1 –t (Server PC).

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

### 3.2 DECISION OF FINAL TEST MODE

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

#### **Conduction:**

1. 1600X1200, VF=60Hz

#### **Radiation:**

1600X1200, VF=60Hz

1. 1600X1200, VF=60Hz / 1-16GHz

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.

Page 5 Rev. 00

# 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**

#### **Host PC Devices:**

No	Equipment	Model #	Serial #	FCC/BSMI ID	Trade Name
1	CPU (3.2GHz)	Pentium 4	N/A	N/A	INTEL
2	Memory (256MB)	DDR400	S32MLD64V4F3	N/A	SYNNEX
3	Power Supply	ST-300BLV	N/A	N/A	Seventeam
4	HDD (40GB)	D540X-4D, 5400rpm	N/A	N/A	Maxtor

Date of Issue: July 26, 2005

#### **Peripherals Devices:**

No	Equipment	Model	Serial No.	FCC/BSMI ID	Trade Name	Data Cable	Power Cord
1	PS/2 Mouse	M071KC	443029438	BSMI: R41108 DoC	DELL	Shielded, 1.8m	N/A
2	PS/2 Keyboard	SK-8110	N/A	BSMI: T3A002 DoC	DELL	Shielded, 1.8m	N/A
3	Player	RQ-L317	N/A	N/A	PANASONIC	Unshielded, 1.8m	N/A
4	Ear / Mic	MSB301	N/A	N/A	e-Sense	Unshielded, 1.8m	N/A
5	DB 5Pin Keyboard	6311-TW4C16	N/A	BSMI ID: 4862A064	ACER	Shielded, 1.8m	N/A
6	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
7	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
8	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
9	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
10	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
11	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
12	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
13	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
14	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
15	Monitor	213T	NB21H4JX305280H	BSMI: R33475 DoC	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
16	Printer	C20SX	EW4E126644	BSMI ID: 3902E004	EPSON	Shielded, 1.8 m	Unshielded, 1.8m
17	Server Notebook	PP05L	2464936188	BSMI: R33002 DoC	DELL	Unshielded, 20m	Unshielded, 1.8m
18	Server PC	845G MAX	HS-03	DoC	MSI	Unshielded, 20m	Unshielded, 1.8m
19	LAN Loadx2	N/A	N/A	N/A	N/A	Unshielded, 1.0m	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.

Page 6 Rev. 00

### 5 FACILITIES AND ACCREDITATIONS

## 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 165, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

Date of Issue: July 26, 2005

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	A2LA	CFR 47, FCC Part 15/18 using ANSI 63.4; 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 61000-4-6, 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	N 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

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Page 7 Rev. 00

### 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.

Date of Issue: July 26, 2005

## **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 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 # H						
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE		
SITE NSA	CCS	H Site	N/A	09/11/2005		
MEASURE RECEIVER	SCHAFFNER	SCR3501	341	09/02/2005		
SPECTRUM ANALYZER	ADVANTEST	R3132	120900002	No Calibration Required		
ANTENNA	SCHAFFNER	CBL 6112B	2801	09/24/2005		
AMPLIFIER	SCHAFFNER	CPA9231A	3613	10/08/2005		
CABLE	SUHNER	RG 214	N-TYPE#H2	12/03/2005		
THERMO- HYGRO METER	TFA	N/A	NO.1	12/22/2005		
	Abo	ove 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	НР	8566B	2937A06102	06/30/2006		
ANTENNA (1-18GHz)	EMCO	3115	5761	01/17/2006		
AMPLIFIER (1-18GHz)	НР	8449B	3008A01266	02/16/2006		
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1&2	02/16/2006		
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	04/28/2006		

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

Page 8 Rev. 00

Conducted Emission Test Site # A							
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE			
TEST RECEIVER	R&S	ESHS20	840455/006	02/17/2006			
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	01/03/2006			
LISN	SOLAR	8012-50-R-24-BNC	8305114	01/03/2006			
BNC CABLE	MIYAZAKI	5D-FB	BNC A1	01/28/2006			
THERMO- HYGRO METER	ТОР	HA-202	9303-1	03/02/2006			

Date of Issue: July 26, 2005

*Note:* The measurement uncertainty is less than +/- 2.83dB, 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	Class A (dBuV)		Class B (dBuV)	
(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 (dBuV/m)	Class B (dBuV/m)
(MHz)	Quasi-peak	Quasi-peak
30 – 230	40	30
230 - 1000	47	37

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

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

FREQUENCY	Class A (dBuV/m)		Class B (dBuV/m)	
(MHz)	Average	Peak	Average	Peak
Above 1000	59.3	79.3	53.9	73.9

*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.

Date of Issue: July 26, 2005

- 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 system with EUT received AC power, 120V/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.

Page 10 Rev. 00

#### **Procedure of Final Test**

• EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.

Date of Issue: July 26, 2005

- 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	73	-29.50	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)

Page 11 Rev. 00

#### 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.

Date of Issue: July 26, 2005

- 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, 120V/60Hz, 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 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 16000MHz. 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.

Page 12 Rev. 00

## **Procedure of Final Test**

• EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.

Date of Issue: July 26, 2005

- The Analyzer / Receiver scanned from 30MHz to 16000MHz. 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.

#### **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	26.2	-13.8	40	14	12.2	Q	Н

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)

Page 13 Rev. 00

## 7.4 TEST RESULTS

## **Line Conducted Emission**

**Model:** FSB-866G **Test Mode:** Mode 1

**Temperature:** 26 °C **Humidity:** 40% RH

Test Results: Passed Tested by: WEBBER JUNG

Date of Issue: July 26, 2005

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

	Six Highest Conducted Emission Readings											
Fre	quency Ran	ge Investiga	ated	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)					
0.158	52.15	0.14	52.29	79.00	-26.71	P	L1					
0.206	53.41	0.14	53.55	79.00	-25.45	P	L1					
0.307	46.48	0.19	46.67	79.00	-32.33	P	L1					
0.160	53.75	0.13	53.88	79.00	-25.12	P	L2					
0.206	51.35	0.13	51.48	79.00	-27.52	P	L2					
0.310	46.08	0.15	46.23	79.00	-32.77	P	L2					

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

Page 14 Rev. 00

Report No.: 50707211-F Date of Issue: July 26, 2005

## **Radiated Emission**

**Model:** FSB-866G **Test Mode:** Mode 1

**Temperature:** 32°C **Humidity:** 35 % RH

Test Results: Passed Tested by: ELVIS ZENG

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

	Six Highest Radiated Emission Readings												
Free	quency Ran	ge Investiga	ited	30 MHz to 1000 MHz at 10m									
Freq (MHz)	Amptd (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Reading (dBuV)	Factor (dB/m)	Reading Type (P/Q/A)	Pol. (H/V)						
39.3500	33.52	-6.48	40.00	49.29	-15.77	P	V						
199.9080	34.25	-5.75	40.00	50.66	-16.41	P	Н						
331.8500	41.10	-5.90	47.00	50.48	-9.38	P	H						
405.6000	40.92	-6.08	47.00	47.54	-6.62	P	Н						
675.9480	42.33	-4.67	47.00	43.80	-1.47	P	Н						
725.1000	42.83	-4.17	47.00	43.59	-0.76	P	H						

NOTE: 30M to 1000M test is Applicable CISPR 22 / EN 55022 standard.

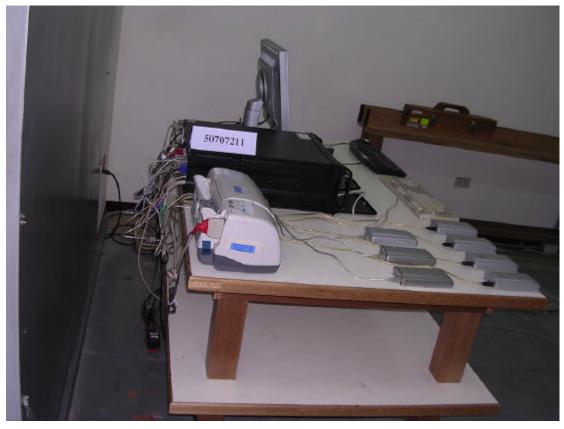
Page 15 Rev. 00

Date of Issue: July 26, 2005

# APPENDIX I - PHOTOGRAPHS OF TEST SETUP

# LINE CONDUCTED EMISSION TEST

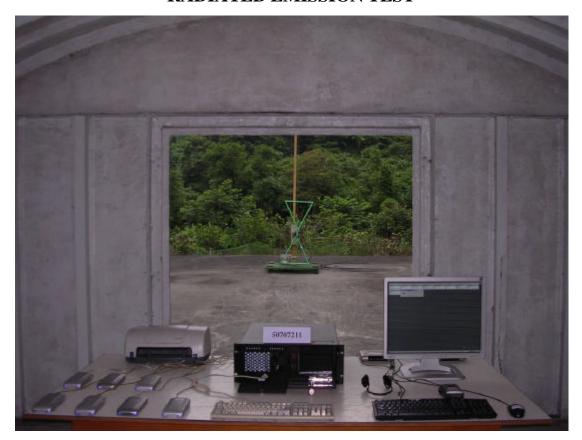




Page 16 Rev. 00

# RADIATED EMISSION TEST

Date of Issue: July 26, 2005





Page 17 Rev. 00

# APPENDIX II - TEST RESULT OF FINAL DATAS

**Conducted Emission Plot** 

Date of Issue: July 26, 2005

**Radiated Emission Data** 

Page 18 Rev. 00

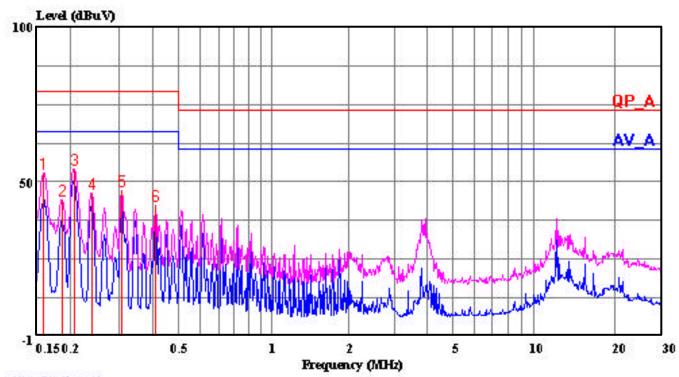


No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Page: 1

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

Data#: 3 File#: 50707211CA.EMI Date: 2005-07-08 Time: 15:12:01



(Conduction A)

Trace: 2 1 Ref Trace:

Condition: LINE

Report No. : 50707211 Test Engr. : WEBBER JUNG

Company : AAEON Technology Inc.

EUT : FSB-866G

Test Config : EUT / ALL PERIPHERALS

Type of Test: FCC CLASS A

Mode of Op. : 1600X1200, VF=60Hz

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.158	52.15	0.14	52.29	79.00	-26.71	Peak
2	0.187	43.48	0.14	43.62	79.00	-35.38	Peak
3	0.206	53.41	0.14	53.55	79.00	-25.45	Peak
4	0.239	45.53	0.16	45.69	79.00	-33.31	Peak
5	0.307	46.48	0.19	46.67	79.00	-32.33	Peak
6	0.413	41.85	0.20	42.05	79.00	-36.95	Peak

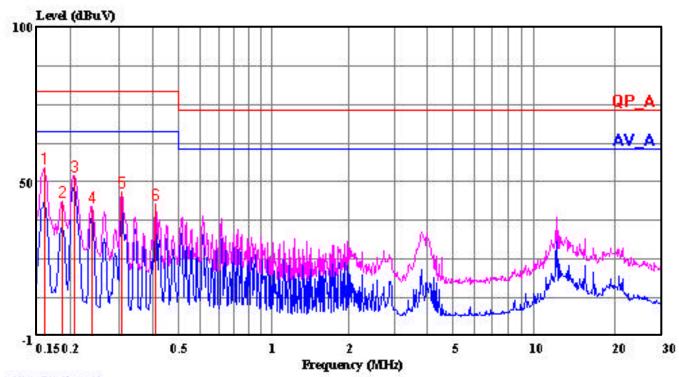


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Page: 1

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

Data#: 6 File#: 50707211CA.EMI Date: 2005-07-08 Time: 15:16:17



(Conduction A)

5

Trace: 5 4 Ref Trace:

Condition: NEUTRAL
Report No. : 50707211
Test Engr. : WEBBER JUNG

Company : AAEON Technology Inc.

EUT : FSB-866G

Test Config : EUT / ALL PERIPHERALS

Type of Test: FCC CLASS A

Mode of Op. : 1600X1200, VF=60Hz

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dВ	dBuV	dBuV	dB	
1	0.160	53.75	0.13	53.88	79.00	-25.12	Peak
2	0.185	42.96	0.13	43.09	79.00	-35.91	Peak
3	0.206	51.35	0.13	51.48	79.00	-27.52	Peak
4	0.239	41.34	0.14	41.48	79.00	-37.52	Peak

0.310 46.08 0.15 46.23 79.00 -32.77 Peak 0.413 42.03 0.18 42.22 79.00 -36.79 Peak



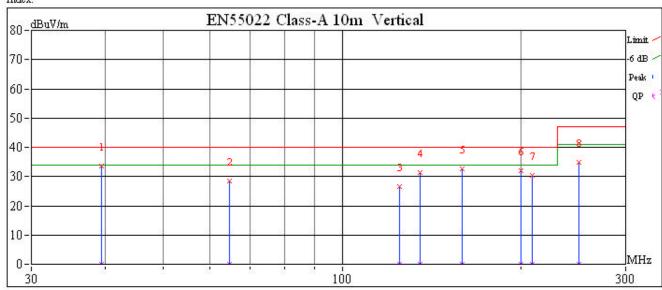
Custom Name: AAEON Technology Inc. Model Name: FSB-866G

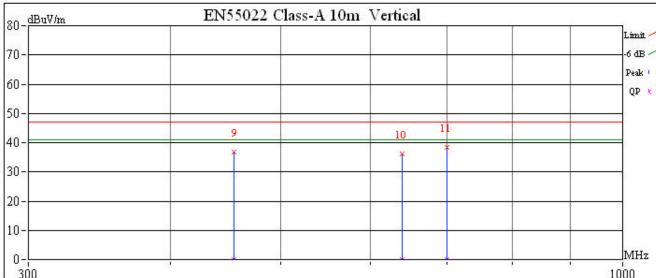
Test Mode:1600X1200, VF=60Hz

Project No.: 50707211 Engineer Name: ELVIS ZENG

Date: 2005-07-12







	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	39.3500	33.52		-6.48	40.00	49.29	-15.77	100	0	
2	64.7000	28.57	O .	-11.43	40.00	50.65	-22.08	100	0	
3	125.0300	26.60		-13.40	40.00	41.45	-14.85	100	360	
4	135.1940	31.28		-8.72	40.00	46.48	-15.20	100	310	
5	158.9300	32.63	E	-7.37	40.00	48.30	-15.67	100	119	
6	199.8750	31.94		-8.06	40,00	48.35	-16.41	100	311	
7	208.9300	30.53	50-	-9.47	40.00	46.17	-15.64	100	0	
8	250.0200	34.98	72°	-12.02	47.00	47.08	-12.10	100	232	
9	454.7300	36.96		-10.04	47.00	42.21	-5.25	400	340	
0	639.3000	36.18		-10.82	47.00	37.91	-1.73	400	141	
11	700.5200	38.46	26	-8.54	47.00	39.73	-1.27	400	360	
7		gr:	A 4			2			20 3 F	
4										

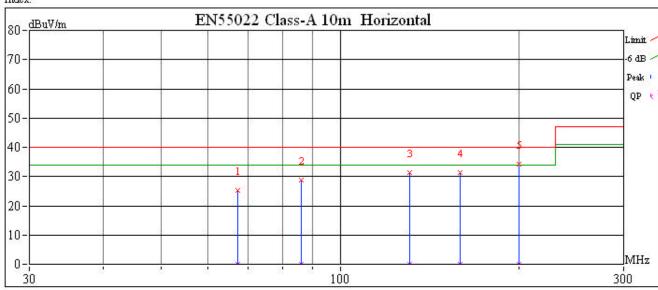
Custom Name: AAEON Technology Inc. Model Name: FSB-866G

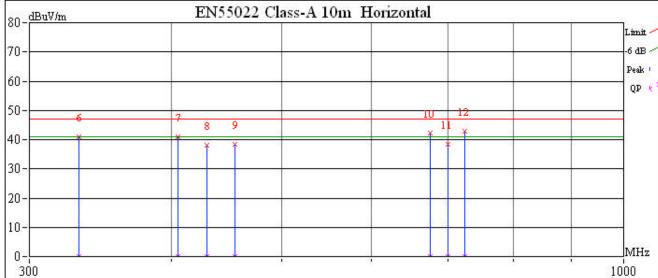
Test Mode:1600X1200, VF=60Hz

Project No.: 50707211 Engineer Name: ELVIS ZENG

Date: 2005-07-12







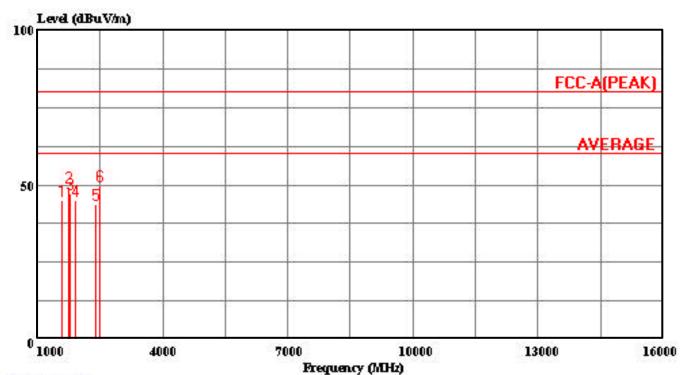
	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	67.2500	25.32		-14.68	40.00	47.20	-21.88	400	339	
2	86.0200	28.74	id R	-11.26	40.00	47.63	-18.89	400	108	
3	130.7800	31.22		-8.78	40.00	46.27	-15.05	400	275	
4	159.3200	31.33		-8.67	40.00	47.01	-15.68	400	359	
5	199.9080	34.25	e e	-5.75	40.00	50.66	-16.41	400	0	
6	331.8500	41.10		-5.90	47.00	50.48	-9.38	400	255	
7	405.6000	40.92	55	-6.08	47.00	47.54	-6.62	100	0	
8	430.1450	38.08	2	-8.92	47.00	44.02	-5.94	100	0	
9	454.7500	38.43		-8.57	47.00	43.68	-5.25	100	77	
0	675.9480	42.33	id.	-4.67	47.00	43.80	-1.47	100	162	
1	700.5010	38.38		-8.62	47.00	39.65	-1.27	100	0	
12	725.1000	42.83	S	-4.17	47.00	43.59	-0.76	100	0	
		50	lé	ić		is in the second			8 8	
			3.00			-0.				



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Data#: 5 File#: 50707211mc.EMI Date: 2005-07-16 Time: 14:35:50



(Chamber C)

Trace: Ref Trace:

Condition: VERTICAL
Report No. : 50717211
Test Engr. : MATT HSU

Company : AAEON Technology Inc.

EUT : FSB-866G

Test Config : EUT / ALL PERIPHERALS

Type of Test: FCC CLASS A

Mode of Op. : 1600X1200, VF=60Hz / 1-16GHz

: ALL TEST DATA UNDER THE AVERAGE LIMIT

Page: 1

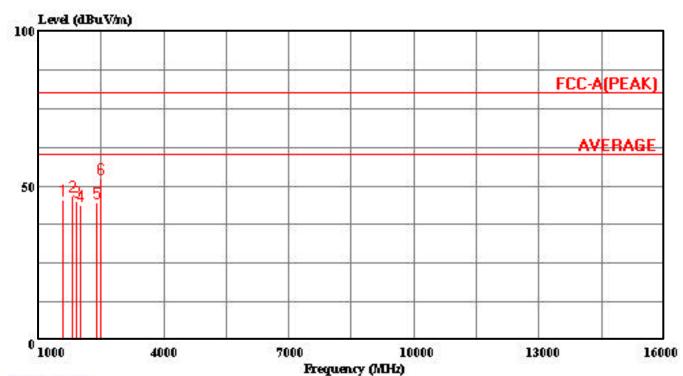
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1 2	1595.500 1748.500	54.10 57.50	-9.06 -8.31	45.04 49.19		-34.96 -30.81	
3	1792.000	55.40	-8.10	47.30	80.00	-32.70	Peak
4	1900.000	52.60	-7.57	45.03	80.00	-34.97	Peak
5	2393.500	49.90	-5.97	43.93	80.00	-36.07	Peak
6	2497.000	55.60	-5.70	49.90	80.00	-30.10	Peak



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

Data#: 10 File#: 50707211mc.EMI Date: 2005-07-16 Time: 14:37:14



#### (Chamber C)

Trace: Ref Trace:

Condition: HORIZONTAL Report No. : 50717211 Test Engr. : MATT HSU

: AAEON Technology Inc. Company

: FSB-866G EUT

Test Config : EUT / ALL PERIPHERALS

Type of Test: FCC CLASS A

Mode of Op. : 1600X1200, VF=60Hz / 1-16GHz

: ALL TEST DATA UNDER THE AVERAGE LIMIT

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1 2 3	1597.000 1799.500 1898.500	54.30 55.00 52.40	-9.05 -8.06 -7.58	45.25 46.94 44.82	80.00	-34.75 -33.06 -35.18	Peak
4 5 6	1999.000 2390.500 2489.500	50.80 50.70 57.90	-7.09 -5.98 -5.70	43.71 44.72 52.20	80.00	-36.29 -35.28 -27.80	Peak Peak