

### FCC DoC TEST REPORT

for

#### **Embedded** Controller

#### MODEL: xxxxAEC-6930-xxxxxx

Test Report Number: 81104201-F

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.**

Sindian BU.

No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan TEL: 886-2-22170894

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Issued Date: November 12, 2008



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#### **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00		Initial Issue	ALL	

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#### **1** TEST RESULT CERTIFICATION

Product:	Embedded Controller
Model:	xxxxxAEC-6930-xxxxxxx (Where x is 0-9 , A-Z , - or blank) for marketing purpose
Brand:	AAEON
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.
Tested:	November 04, 2008 & November 06, 2008

EMISSION						
Standard	Item	Result	Remarks			
FCC 47 CFK Part 15 Subpart B,	Conducted (Main Port)	PASS	Meet Class A limit			
ICES-003 Issue 4 ANSI C63.4-2003	Radiated	PASS	Meet Class A limit			

*Note:* 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

#### **Deviation from Applicable Standard**

None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in 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:

Vince Chiang Assistant Manager of Sindian BU. Reviewed by:

esla

Vesta Hsu Supervisor of report document dept. of Sindian BU.

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### **2** EUT DESCRIPTION

Product	Embedded Controller
Brand Name	AAEON
Model	xxxxAEC-6930-xxxxxx(Where x is 0-9 , A-Z , - or blank) for marketing purpose
Applicant	AAEON Technology Inc.
Housing material	Metal case
Identify Number	81104201
Received Date	November 04, 2008
AC Power During Test	120VAC / 60Hz
EUT Power Rating	19VDC
AC Adaptor Manufacturer	FSP GROUP INC.
AC Adaptor Model Number	FSP120-AAB
Power Adaptor Power Rating	IP: 100-240VAC, 50-60Hz, 2A; OP: 19VDC, 6.32A
DC Power Cable Type	Unshielded, 1.72m (Non-Detachable, with a core)
AC Power Cable Type	Unshielded, 1.8m (Detachable)
EUT I/O Cable Type	DVI To DVI / D-SUB Cable: Shielded, 0.15m (Detachable) PS/2 one to two Cable: Shielded, 0.11m (Detachable) 9 Pin To AUDIO Out / AUDIO In Cable: Unshielded, 0.21m (Detachable)
OSC/Clock Frequencies	14.31818MHz; 25MHz; 32.768KHz; 24.576MHz; 12MHz

#### I/O PORT

	I/O PORT TYPES	Q'TY	TESTED WITH		
1.	SIO Port	4	4		
2.	USB Port	4	4		
3.	LAN Port	4	4		
4.	PS/2 one to two Port	1	1		
5.	DVI To DVI / D-SUB Port	1	1		
6.	9 Pin To AUDIO Out / AUDIO In Port	1	1		
Note: Client consigns only one model sample to test (Model Number: AEC-6930).					

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#### **3** TEST METHODOLOGY

#### **3.1. DECISION OF FINAL TEST MODE**

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration/ mode is as the following:

#### **Conduction Mode:**

1. NORMAL MODE

#### **Radiation Mode:**

1	NORMAL MODE
1.	NORMAL MODE / 1-8GHz

**Conduction:** Mode 1 **Radiation:** Mode 1

#### **3.2. 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 "C:/ & E:/ & G:/ & H:/ & I:/" to test EUT.
- 4. Run Winemc.exe and choose media player to play music.
- 5. Press the start menu, select executive and type ping 192.168.0.10 -t (EUT), ping 192.168.0.1 -t (Server Notebook).
- 6. Press the start menu, select executive and type ping 192.168.0.10 -t (EUT), ping 192.168.0.2 -t (Server Notebook).
- 7. Press the start menu, select executive and type ping 192.168.0.10 -t (EUT), ping 192.168.0.3 -t (Server Notebook).
- 8. Press the start menu, select executive and type ping 192.168.0.10 -t (EUT), ping 192.168.0.4 -t (Server Notebook).

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

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### **4** SETUP OF EQUIPMENT UNDER TEST

#### **4.1. DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### **EUT Devices:**

No.	Equipment	Model No.	Trade Name
1	CPU (1.6GHz)	Intel Core 2 Duo 1.60GHz	Intel
2	Hard Disk (40GB)	MHY2080BH	Fujitsu
3	RAM (DDR II 667 / 4GB)	K4T16084QQ	SEC
4	Power Supply	FSP120-AAB	FSP

#### **Peripherals Devices:**

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1-2	USB 2.0 HDD X2	F12-U	N/A	BSMI ID: 4912A002	Terasys	Shielded, 1.8m	N/A
3-4	USB 2.0 HDD X2	F12-U	N/A	BSMI ID: 4912A002	Terasys	Shielded, 1.8m	N/A
5	PS/2 Mouse	M071KC	443029438	DoC BSMI: R41108	DELL	Unshielded, 1.8m	N/A
6	PS/2 Keyboard	SK-8110	N/A	DoC BSMI: T3A002	DELL	Unshielded, 1.8m	N/A
7	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 2.0m	N/A
8	Player	RQ-L11LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.4m	N/A
9-12	Modem X4	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.4m	Unshielded, 1.8m
13	Monitor	2408WFP	N/A	N/A	DELL	Shielded, 1.8m with two cores	Unshielded, 1.8m
14	Monitor (CRT)	202P40	BZ000405640107	FCC ID: A3KM107 BSMI: R33048	PHILIPS	Shielded, 1.8m with two cores	Unshielded, 1.8m
15	HUB	DGS-1008D	N/A	N/A	D-Link	Unshielded, 20m X4	N/A
16	Server Notebook	Compaq 2210b	CNU7472KDP	N/A	HP	Unshielded, 1.0m	Unshielded, 1.8m

#### Note:

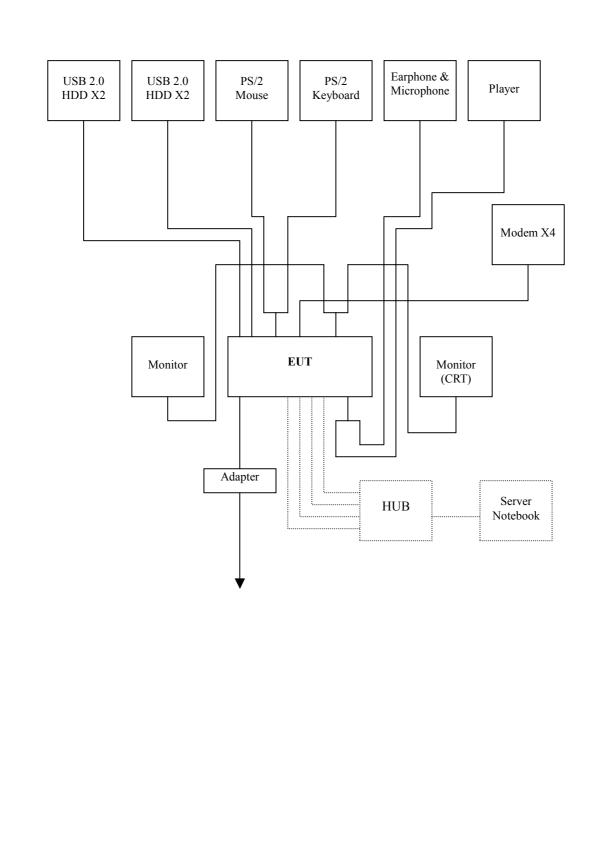
1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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#### **4.2.** CONFIGURATION OF SYSTEM UNDER TEST



### **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 sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

#### **5.2.** ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Industry Canada
TUV Rheinland
VCCI
BSMI
FCC

Copies of granted accreditation certificates are available for downloading from our web site, <u>http://www.ccsemc.com.tw</u>

#### **5.3. MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty	
Conducted emissions	0.15MHz~30MHz	± 1.7376	
Radiated emissions	$30 MHz \sim 200 MHz$	± 3.8792	
Radiated emissions	200MHz~1000MHz	± 3.8914	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than  $U_{CISPR}$  which is 3.6dB and 5.2dB respectively. CCS values (called  $U_{Lab}$  in CISPR 16-4-2) is less than  $U_{CISPR}$  as shown in the table above. Therefore, MU need not be considered for compliance.

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#### **6** CONDUCTED EMISSION MEASUREMENT

#### **6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT**

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCI (MIIIZ)	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:

(1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### **6.2.** TEST INSTRUMENTS

Conducted Emission room # A							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
TEST RECEIVER	R&S	ESHS20	840455/006	02/18/2009			
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	12/03/2008			
LISN	SOLAR	8012-50-R-24-BNC	8305114	12/03/2008			
BNC CABLE	MIYAZAKI	5D-FB	BNC A4	05/12/2009			
THERMO- HYGRO METER	TECPEL	DTM-303	No.7	11/15/2008			
Test S/W	EMI 32.exe						

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.



#### **6.3. TEST PROCEDURES** (please refer to measurement standard or CCS SOP PA-031)

#### **Procedure of Preliminary Test**

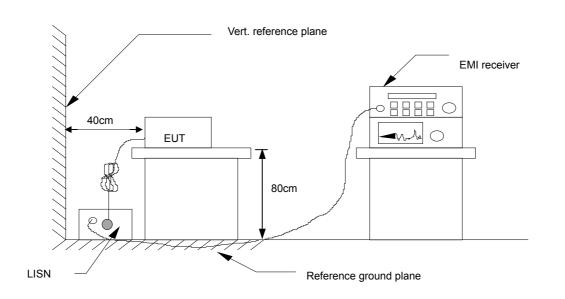
- The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment power received 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 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 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.
- The test data of the worst-case condition(s) was recorded.

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#### **6.4. TEST SETUP**



• For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### **6.5. DATA SAMPLE**

Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark (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 Line	= Limit stated in standard
Over Limit	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
L1	= Hot side

L2 = Neutral side

#### **Calculation Formula**

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



#### **6.6. TEST RESULTS**

Model No.	AEC-6930	6dB Bandwidth	10 KHz
Environmental Conditions	25deg.C, 55% RH, 1005hPa	Test Mode	Mode 1
Tested by	JASON LEE		

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

	Six Highest Conducted Emission Readings								
Free	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)	Remark (P/Q/A)	Line (L1/L2)		
0.200	44.61	0.12	44.73	79.00	-34.27	Р	L1		
0.297	45.32	0.12	45.44	79.00	-33.56	Р	L1		
12.188	41.37	0.94	42.32	73.00	-30.68	Р	L1		
13.915	41.75	1.05	42.81	73.00	-30.19	Р	L1		
0.296	45.28	0.14	45.42	79.00	-33.58	Р	L2		
13.841	41.23	1.17	42.40	73.00	-30.60	Р	L2		

*NOTE:* 1. *L*1 = *Line One (Live Line) / L*2 = *Line Two (Neutral Line)* 

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

# 7 RADIATED EMISSION MEASUREMENT7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	dBuV/m (At 10m)		
TREQUEICET (MIIZ)	Class A	Class B	
30 ~ 230	40	30	
230 ~ 1000	47	37	

Frequency (MHz)	Class A (dBu	V/m) (At 3m)	Class B (dBuV/m) (At 3m)		
Frequency (writz)	Average	Peak	Average	Peak	
Above 1000	60	80	54	74	

**NOTE**: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .

(3) 10m to 3m: 20 log (3/10)=-10.4576dB.

#### 7.2. TEST INSTRUMENTS

Open Area Test Site # I								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/07/2009				
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required				
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/08/2009				
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/12/2009				
CABLE	BELDEN	9913	N-TYPE #I2	02/24/2009				
THERMO- HYGRO METER	TFA	N/A	NO.2	12/03/2008				
Test S/W	Test S/W LAB VIEW 7.1							
	Al	bove 1GHz Used						
SPECTRUM ANALYZER (3Hz-44GHz)	Agilent	E4446A	MY48250064	10/28/2009				
ANTENNA (1-18GHz)	EMCO	3115 00022256		01/30/2009				
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	01/28/2009				
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	01/28/2009				
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	01/28/2009				
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	01/28/2009				
Test S/W		EMI 3	32.exe					

*NOTE:* 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

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#### **7.3. TEST PROCEDURES** (please refer to measurement standard or CCS SOP PA-031)

#### **Procedure of Preliminary Test**

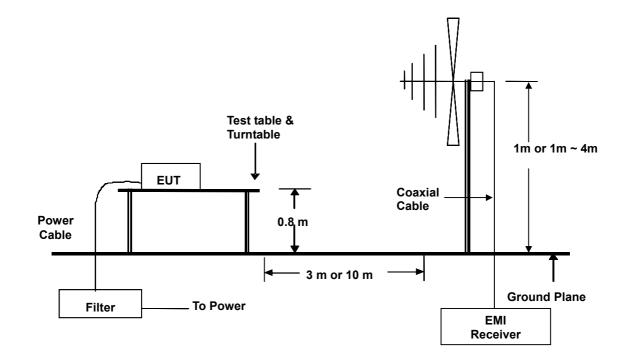
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 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 from the outlet socket under the turntable. All support equipment power received 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 8000MHz. 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 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 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.

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#### **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 8000MHz. 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.

#### 7.4. TEST SETUP



• For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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#### 7.5. DATA SAMPLE

#### **Below 1GHz**

Freq.	Reading	Factor	Result	Limit	Margin	Remark	Pol.
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(H/V)
X.XX	14.0	12.2	26.2	40	-13.8	Q	

Freq.	= Emission frequency in MHz
Reading	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
Result	= Reading + Factor
Limit	= Limit stated in standard
Margin	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
Н	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

#### **Calculation Formula**

Margin (dB) = Result (dBuV/m) - Limit (dBuV/m)

#### Above 1GHz

(	Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark (P/A)	Pol. (H/V)
	x.xx	42.95	0.55	43.50	60	-16.50	А	Н

Freq.	= Emission frequency in MHz
Read Level	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss - Amplifier Gain
Level	= Read Level + Factor
Limit Line	= Limit stated in standard
Over Limit	= Level – Limit Line
Р	= Peak Reading
А	= Average Reading
Н	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

### **CCS** Compliance Certification Services Inc.

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#### **7.6. TEST RESULTS**

#### **Below 1GHz**

Model No.	AEC-6930	Test Mode	Mode 1
Environmental Conditions	25deg.C, 80% RH, 1010hPa	6dB Bandwidth	120 KHz
Antenna Pole	Vertical	Antenna Distance	10m
<b>Detector Function</b>	Quasi-peak.	Tested by	JIN LIAO

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

	Six Highest Radiated Emission Readings						
Fre	Frequency Range Investigated			30 N	1Hz to 1000	MHz at 10	m
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark (P/Q/A)	Pol. (H/V)
45.350	51.90	-16.69	35.21	40.00	-4.79	Q	V
51.829	54.00	-18.65	35.35	40.00	-4.65	Q	V
110.150	50.80	-16.60	34.19	40.00	-5.80	Q	V
116.630	50.30	-16.15	34.15	40.00	-5.85	Q	V
149.036	53.10	-16.86	36.24	40.00	-3.76	Q	V
181.431	52.40	-18.26	34.14	40.00	-5.86	Q	V

**REMARKS:** 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading

Model No.	AEC-6930	Test Mode	Mode 1
Environmental Conditions	25deg.C, 80% RH, 1010hPa	6dB Bandwidth	120 KHz
Antenna Pole	Horizontal	Antenna Distance	10m
<b>Detector Function</b>	Quasi-peak.	Tested by	JIN LIAO

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

	Six Highest Radiated Emission Readings						
Fre	Frequency Range Investigated			30 M	[Hz to 1000]	MHz at 10	m
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark (P/Q/A)	Pol. (H/V)
116.640	50.20	-16.15	34.05	40.00	-5.95	Q	Η
149.035	50.40	-16.86	33.54	40.00	-6.46	Q	Н
181.432	52.80	-18.26	34.54	40.00	-5.46	Q	Н
207.353	52.30	-18.05	34.25	40.00	-5.75	Q	Н
250.025	55.40	-14.32	41.08	47.00	-5.92	Q	Н
479.990	50.50	-8.39	42.11	47.00	-4.89	Q	Η

**REMARKS:** 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading

#### Above 1GHz

Model No.	AEC-6930	Test Mode	Mode 1
Environmental Conditions	126°C 55% RH 1010mbar	6dB Bandwidth	1000 KHz
Antenna Pole	Vertical	Antenna Distance	3m
Detector Function	Quasi-peak.	Tested by	JASON LEE

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

	Six Highest Radiated Emission Readings						
Frequency Range Investigated			1000 MHz to 8000 MHz at 3m				
Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark (P/Q/A)	Pol. (H/V)
1252.000	39.60	-10.38	29.21	80.00	-50.79	Р	V
1405.000	39.69	-9.61	30.08	80.00	-49.92	Р	V
1687.000	39.50	-8.06	31.44	80.00	-48.56	Р	V
1874.500	38.71	-6.99	31.72	80.00	-48.28	Р	V
2137.000	41.03	-5.84	35.19	80.00	-44.81	Р	V
2285.500	39.93	-5.36	34.57	80.00	-45.43	Р	V

**REMARKS:** 1. The other emission levels were very low against the limit. 2. P= Peak Reading; A= Average Reading.



Model No.	AEC-6930	Test Mode	Mode 1
Environmental Conditions	$126^{\circ}$ C 55% RH 1010mbar	6dB Bandwidth	1000 KHz
Antenna Pole	Horizontal	Antenna Distance	3m
<b>Detector Function</b>	Quasi-peak.	Tested by	JASON LEE

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

	Six Highest Radiated Emission Readings						
Frequency Range Investigated			1000 MHz to 8000 MHz at 3m			3m	
Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark (P/Q/A)	Pol. (H/V)
1295.500	39.01	-10.16	28.85	80.00	-51.15	Р	Н
1567.000	38.77	-8.73	30.04	80.00	-49.96	Р	Н
1832.500	41.02	-7.22	33.79	80.00	-46.21	Р	Н
2030.500	41.30	-6.18	35.12	80.00	-44.88	Р	Н
2221.000	42.62	-5.57	37.05	80.00	-42.95	Р	Н
2491.000	39.92	-4.70	35.22	80.00	-44.78	Р	Н

**REMARKS:** 1. The other emission levels were very low against the limit. 2. P= Peak Reading; A= Average Reading.

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### 8 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST





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#### **RADIATED EMISSION TEST**

