Date of Issue: November 15, 2005

## FCC 47 CFR PART 15 SUBPART B

## **TEST REPORT**

For

**Embedded Controller** 

Model: AEC-6900

**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

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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:** Embedded Controller

**Trade Name:** AAEON

Model: AEC-6900

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

**Date of Test:** October 11, 2005 ~ November 14, 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:

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	Embedded Controller
Trade Name	AAEON
Model	AEC-6900
Housing Type	N/A
<b>EUT Power Rating</b>	19VDC from AC Adaptor
AC Power During Test	120VAC / 60 Hz to AC Adaptor
AC Adaptor Manufacturer	FSP
AC Adaptor Model Number	FSP120-AAB
AC Adaptor Power Rating	I/P: 100-240VAC 50-60Hz O/P: 19VDC, 6.32A
AC Power Cord Type	Unshielded, 1.8m(Detachable) to AC Adaptor
DC Power Cord Type	Unshielded, 1.1m (Non-detachable, with a core) to AC Adaptor
OSC/Clock Frequencies	25MHz; 32.768kHz; 14.31818MHz; 24.576MHz

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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	4	4
3). PS/2 Keyboard	1	1
4). PS/2 Mouse Port	1	1
5). VIDEO-OUT Port (VGA)	1	1
6). LAN Port	2	2
7). USB Port	4	4
8). Audio Output Switch Port	1	1
9). PCMCIA Port	2	2
10). Compact Flash Slot	1	1

Note: Client consigns only one model sample (Model Number is AEC-6900) 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 "C:/ & E:/ & F:/ & G:/ & H:/ & I:/" to test EUT.
- 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 were scanned during the preliminary test:

#### **Conduction:**

1. NORMAL MODE

#### **Radiation:**

- NORMAL MODE
- 1. NORMAL MODE / 1-5GHz
- 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.

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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 #	Serial #	FCC/BSMI ID	Trade Name
1	CPU (650MHz)	Celeron(R)	N/A	N/A	Intel
2	Memory (256MB)	48LC16M8A2 TG-75G/PC-133	N/A	N/A	MT
3	Hard Disk (40GB)	MHT2040AT	N/A	N/A	FUJITSU

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#### **Peripherals Devices:**

No	Equipment	Model	Serial No.	FCC/ 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	PS/2 Mouse	M071KC	443029438	BSMI: R41108 DoC	DELL	Shielded, 1.8m	N/A
6	PS/2 Keyboard	SK-8110	N/A	BSMI: T3A002 DoC	DELL	Shielded, 1.8m	N/A
7	Ear. / Mic.	MSB301	N/A	N/A	e-Sense	Unshielded, 1.8m	N/A
8	Player	RQ-L317	N/A	N/A	PANASONIC	Unshielded, 1.0m	N/A
9	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
10	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
11	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
12	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 0.8m	Unshielded, 1.8m
13	Monitor	710V	GS17H9NXA05853A	BSMI: R33475 DoC	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
14	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8 m	Unshielded, 1.8m
15	Server Notebook	2659-FT1	AK-VHXOH 02/10 C	ANOPSIWLIV	IBM	Unshielded, 20m	Unshielded, 1.8m
16	Lan Load	N/A	N/A	N/A	N/A	Unshielded, 0.8m	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 used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 165, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

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

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## 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	<b>N</b> 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 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	09/17/2006		
MEASURE RECEIVER	SCHAFFNER	SCR3501	330	06/13/2006		
SPECTRUM ANALYZER	ADVANTEST	R3132	120900003	No Calibration Required		
ANTENNA	SCHAFFNER	CBL 6112B	2800	09/24/2006		
PRE- AMPLIFIER	SCHAFFNER	CPA9231A	3629	10/08/2006		
CABLE	BELDEN	9913	N-TYPE #J2	02/18/2006		
ATTENUATOR	MCL	UNAT-6	AT06-8	12/03/2005		
THERMO- HYGRO METER	TFA	N/A	NO.3	11/09/2005		
	Abo	ve 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	06/30/2006		
ANTENNA (1-18GHz)	EMCO	3115	5761	01/17/2006		
AMPLIFIER (1-18GHz)	HP	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.

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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			

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*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.

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- 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.

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

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

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- 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)

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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 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.

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- 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 5000MHz. 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.

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

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

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- The Analyzer / Receiver scanned from 30MHz to 5000MHz. 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)

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## 7.4 TEST RESULTS

## **Line Conducted Emission**

**Model:** AEC-6900 **Test Mode:** Mode 1

**Temperature:** 25°C **Humidity:** 50% RH

Test Results: Passed Tested by: Jason Chia

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)	
0.182	39.51	9.98	49.49	79.00	-29.51	P	L1	
0.720	31.95	10.00	41.95	73.00	-31.05	P	L1	
2.110	35.32	10.13	45.45	73.00	-27.55	P	L1	
10.072	34.25	10.35	44.60	73.00	-28.40	P	L1	
0.182	41.59	9.98	51.57	79.00	-27.43	P	L2	
1.868	31.43	10.03	41.46	73.00	-31.54	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: AEC-6900 Test Mode: Mode 1

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**Temperature:** 32°C **Humidity:** 58 % RH

**Test Results:** Passed **Tested by:** Sam Su

Six Highest Radiated Emission Readings								
Frequency Range Investigated				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)	
36.8620	36.00	-4.00	40.00	44.20	-8.20	Q	V	
73.7300	35.20	-4.80	40.00	50.70	-15.50	Q	V	
75.5943	35.73	-4.27	40.00	51.00	-15.27	Q	${f V}$	
86.0200	35.51	-4.49	40.00	49.00	-13.49	Q	V	
86.3863	35.98	-4.02	40.00	49.40	-13.42	Q	V	
129.5823	36.04	-3.96	40.00	45.90	-9.86	Q	V	
86.0160	34.71	-5.29	40.00	48.20	-13.49	Q	Н	

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

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# APPENDIX I - PHOTOGRAPHS OF TEST SETUP

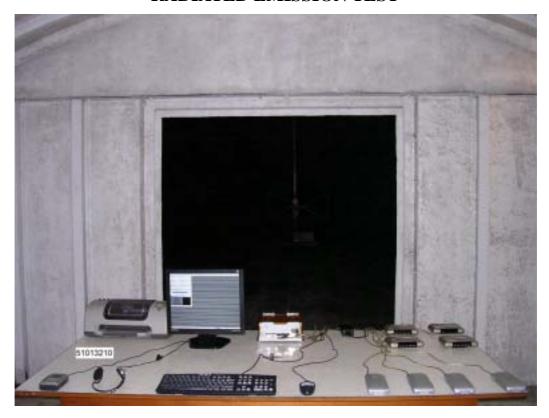
# LINE CONDUCTED EMISSION TEST





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# RADIATED EMISSION TEST





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