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# Certificate of Compliance

We, **ADVANCE DATA TECHNOLOGY CORP.**, hereby certify that:

The product : Industrial Panel Computer

Trade Name : AAEON

Model No. : P3-15AX-00, P3-12AX-00, P3-10AX-00  
(The "X" could be R or M depending on EUT's keyboard function)

Applicant : AAEON TECHNOLOGY INC.

Three samples (model: P3-15AX-00, P3-12AX-00, P3-10AX-00) of the designation have been tested in our facility on April 12, 2001. The data, data evaluation, represented in our report no.: **F90040206**, are true and accurate representation of the measurements of the sample's emission characteristics under the conditions in the following:

Standards : FCC Part 15, Subpart B, Class A  
CISPR 22:1997, Class A  
ANSI C63.4-1992



Mike Su / Manager

Issue Date: April 18, 2001



## ADVANCE DATA TECHNOLOGY CORP.

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# FCC TEST REPORT

**REPORT NO.:** F90040206

**MODEL NO.:** P3-15AX-00, P3-12AX-00,  
P3-10AX-00

**RECEIVED:** April 02, 2001

**TESTED:** April 12, 2001

**APPLICANT:** AAEON TECHNOLOGY INC.

**ADDRESS:** 1F, NO. 6, ALLEY 6, LANE 45, PAO-  
HSIN RD., HSIN-TIEN CITY, TAIPEI ,  
TAIWAN, R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** 47 14th Lin, Chiapau Tsun, Linko, Taipei,  
Taiwan, R.O.C.

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0528



Lab Code: 200102-0



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## 1 CERTIFICATION

**PRODUCT:** Industrial Panel Computer  
**BRAND NAME:** AAEON  
**MODEL NO:** P3-15AX-00, P3-12AX-00, P3-10AX-00  
**TEST ITEM:** ENGINEERING SAMPLE  
**APPLICANT:** AAEON TECHNOLOGY INC.  
**STANDARDS:** FCC Part 15, Subpart B, Class A  
CISPR 22: 1997, Class A  
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that three samples (model: P3-15AX-00, P3-12AX-00, P3-10AX-00) of the designation has been tested in our facility on April 12, 2001. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

**CHECKED BY:** Kathy Tseng, **DATE:** 4/18/2001  
(Kathy Tseng)

**APPROVED BY:** Mike Su, **DATE:** 4/18/2001  
(Mike Su, Manager)



## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15, Subpart A, CISPR 22: 1997, Class A	Conducted Test	PASS	Meets Class A Limit Minimum passing margin is -27.42 dB at 1.053 MHz
	Radiated Test	PASS	Meets Class A Limit Minimum passing margin is -3.0 dB at 167.03 MHz

**NOTE:** For conducted emission test, the test limit used is according to FCC Part 15.107. In this part, conducted emission test for telecom port is not mentioned and therefore this item is not tested.



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Industrial Panel Computer
<b>MODEL NO.</b>	P3-15AX-00, P3-12AX-00, P3-10AX-00
<b>POWER SUPPLY</b>	Switching Power Cord: Nonshielded, 3 pin, AC (1.8m)
<b>DATA CABLE</b>	NA

**NOTE:** The EUT has three model names, which are identical to each other Except for their LCD panel and keyboard functions as the following:

- ◇ Model: P3-15AX-00: PRO-3000 PC BOX + 15.1" LCD panel
- ◇ Model: P3-12AX-00: PRO-3000 PC BOX + 12.1" LCD panel
- ◇ Model: P3-10AX-00: PRO-3000 PC BOX + 10.4" LCD panel

The "X" in model names could be defined as "M" or "R" depending on the EUT's keyboard functions. The "M" is defined as Membrane K/B Type, the "R" is defined as Touch Screen Type.

The EUT was configured with **PRO-3000 PC Box**, which consists of the following components:

Components	Model & Brand Name
MOTHER BOARD	AAEON, model: MB-668
CPU	Intel Celeron
RAM	PC100 SDRAM, 64MB
FDD	NEC, model: FD1238T
CD-ROM	NEC, model CD2800D, 24x
HDD	FUJITSU 3.2GB

For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



### 3.2 DESCRIPTION OF TEST MODES

The EUT were pre-tested with the following six conditions:

Condition	Model name	LCD Panel	Keyboard function
1	P3-15AR-00	HYUNDAI 15" LCD Panel, model: HT15X22-100 (resolution: 1024x768)	Touch screen, model: Dynapro 9584A
2	P3-15AM-00	HYUNDAI 15" LCD Panel, model: HT15X22-100 (resolution: 1024x768)	Membrane keyboard
3	P3-12AR-00	TOSHIBA 12.1" LCD Panel, model: LTM12C275A (resolution: 800x600)	Touch screen, model: Dynapro 9584A
4	P3-12AM-00	TOSHIBA 12.1" LCD Panel, model: LTM12C275A (resolution: 800x600)	Membrane keyboard
5	P3-10AR-00	NEC 10.4" LCD Panel, model: NL6448AC33-18 (resolution: 640x480)	Touch screen, model: Dynapro 9584A
6	P3-10AM-00	NEC 10.4" LCD Panel, model: NL6448AC33-18 (resolution: 640x480)	Membrane keyboard

The worst emission level was found when the EUT were tested under condition 1, 3, 5 and their data are recorded in this report.





### 3.3 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	19"COLOR MONITOR	HP	D2842A	KR93473116	BEJCB910
2	PRINTER	HP	2225C+	3030S79138	DSI6XU2225
3	MODEM	ACEEX	1414	980020504	IFAXDM1414
4	MODEM	ACEEX	1414	980020508	IFAXDM1414
5	MODEM	ACEEX	1414	980020506	IFAXDM1414
6	PS/2 KEYBOARD	FORWARD	FDA-104GA	FDKB8110123	F4ZDA-104G
7	MOUSE	LOGITECH	M-S43	LZE000703165	DZL211106
8	USB KEYBOARD	SiliconGraphis	SK-2502U	S990800271	GYUR58SK
9	USB MOUSE	LOGITECH	M-BB48	LZE93051096	DOC
10	Industrial Panel Computer	AAEON	G3-15AX-00	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core.
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
4	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
5	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
6	1.5 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
7	1.5 m foil shielded wire, terminated with PS2 connector via drain wire, w/o core.
8	2.5 m braid shielded wire, terminated with USB connector via drain wire, w/o core.
9	1.8 m foil shielded wire, terminated with USB connector via drain wire, w/o core.
10	N/A

- Note:**
1. All power cords of the above support units are non shielded (1.8m).
  2. The EUT acted as SERVER PC and communicated with support units 10 which acted as WORKSTATION and partners of communication system via a Lan cable (10m)



## 4 EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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

- NOTES:**
- (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.

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESHS30	828109/007	July 6, 2001
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	July 9, 2001
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 28, 2001
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Dec. 3, 2001
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 9, 2001
Software	Cond-V2e	NA	NA
RF cable (JYEBAO)	RG-58A/U	Cable-C02.01	July 9, 2001
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 20, 2002
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 20, 2002
Shielded Room	Site 2	ADT-C02	NA
VCCI Site Registration No.	Site 2	C-240	NA

- NOTE:**
1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

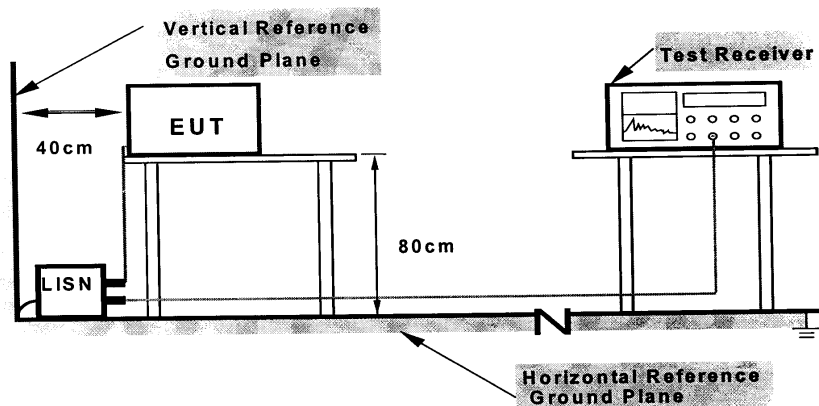
#### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



- Note: 1. Support units were connected to second LISN.**  
**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

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



#### 4.1.6 EUT OPERATING CONDITIONS

- a. Turn on the power of all equipment.
- b. EUT runs a test program to enable all functions of EUT.
- c. EUT reads and writes messages from HDD and FDD.
- d. EUT sends and receives messages from WORKSTATION PC via a Lan cable.
- e. EUT sends "H" messages to monitor and then monitor displays them on its screen.
- f. EUT sends messages to printer, and then printer prints them on paper.
- g. EUT sends messages to modem.
- h. Repeat steps c-h.

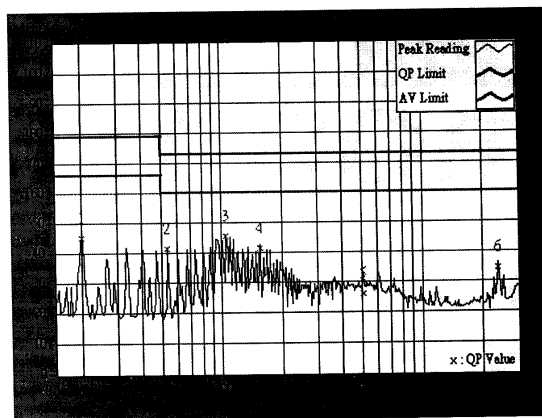


### 4.1.7 TEST RESULTS ( A )

EUT	Industrial Panel Computer	MODEL	P3-15AX-00
		6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa	TESTED BY:	JN Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.20	45.35	-	45.55	-	79.00
2	0.537	0.20	41.59	-	41.79	-	73.00	60.00	-31.21	-
3	1.053	0.20	45.38	-	45.58	-	73.00	60.00	-27.42	-
4	1.548	0.20	41.49	-	41.69	-	73.00	60.00	-31.31	-
5	5.072	0.45	25.77	-	26.22	-	73.00	60.00	-46.78	-
6	23.996	1.34	34.26	-	35.60	-	73.00	60.00	-37.40	-

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

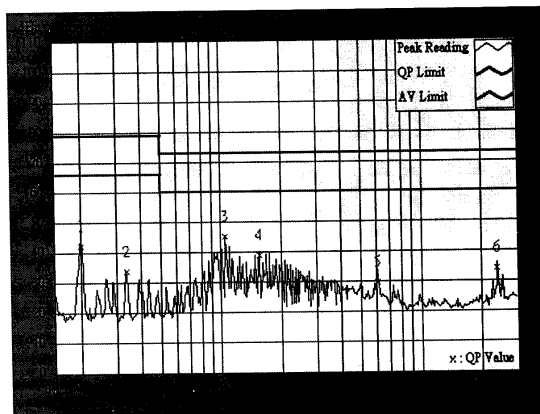




EUT	Industrial Panel Computer	MODEL	P3-15AX-00
		6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa	TESTED BY:	JN Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.20	42.40	-	42.60	-	79.00
2	0.339	0.20	33.78	-	33.98	-	79.00	66.00	-45.02	-
3	1.053	0.20	45.09	-	45.29	-	73.00	60.00	-27.71	-
4	1.545	0.20	39.01	-	39.21	-	73.00	60.00	-33.79	-
5	6.017	0.47	29.73	-	30.20	-	73.00	60.00	-42.80	-
6	23.996	1.24	34.10	-	35.34	-	73.00	60.00	-37.66	-

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



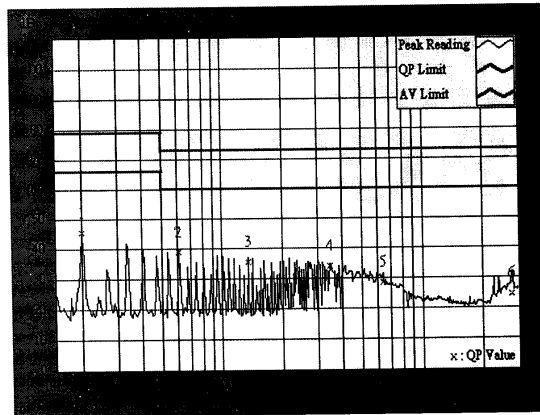


#### 4.1.8 TEST RESULTS ( B )

EUT	Industrial Panel Computer	MODEL	P3-12AX-00
		6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa	TESTED BY:	JN Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.20	45.59	-	45.79	-	79.00
2	0.606	0.20	38.82	-	39.02	-	73.00	60.00	-33.98	-
3	1.347	0.20	35.74	-	35.94	-	73.00	60.00	-37.06	-
4	3.441	0.34	33.96	-	34.30	-	73.00	60.00	-38.70	-
5	6.338	0.52	28.41	-	28.93	-	73.00	60.00	-44.07	-
6	27.719	1.51	24.59	-	26.10	-	73.00	60.00	-46.90	-

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

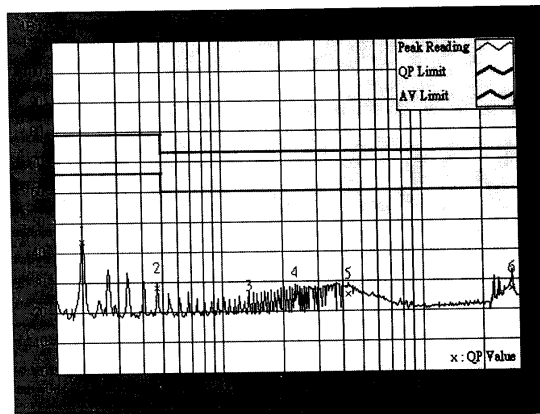




EUT	Industrial Panel Computer	MODEL	P3-12AX-00
		6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa	TESTED BY:	JN Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.20	43.78	-	43.98	-	79.00
2	0.471	0.20	28.13	-	28.33	-	79.00	66.00	-50.67	-
3	1.347	0.20	21.80	-	22.00	-	73.00	60.00	-51.00	-
4	2.292	0.23	26.12	-	26.35	-	73.00	60.00	-46.65	-
5	4.248	0.41	25.59	-	26.00	-	73.00	60.00	-47.00	-
6	27.719	1.35	27.14	-	28.49	-	73.00	60.00	-44.51	-

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





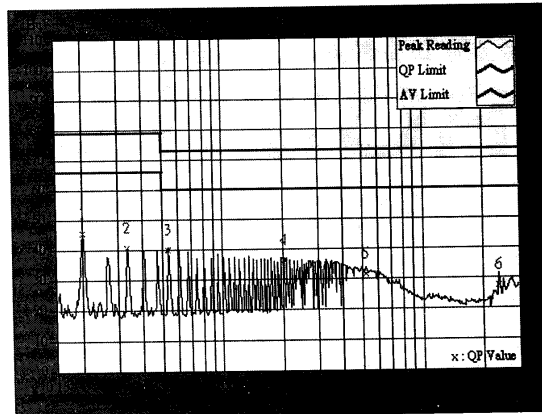


#### 4.1.9 TEST RESULTS ( C )

EUT	Industrial Panel Computer	MODEL	P3-10AX-00
		6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa	TESTED BY:	JN Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.20	45.47	-	45.67	-	79.00
2	0.336	0.20	40.90	-	41.10	-	79.00	66.00	-37.90	-
3	0.537	0.20	39.82	-	40.02	-	73.00	60.00	-32.98	-
4	2.022	0.20	36.25	-	36.45	-	73.00	60.00	-36.55	-
5	5.189	0.46	31.48	-	31.94	-	73.00	60.00	-41.06	-
6	23.996	1.34	27.42	-	28.76	-	73.00	60.00	-44.24	-

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

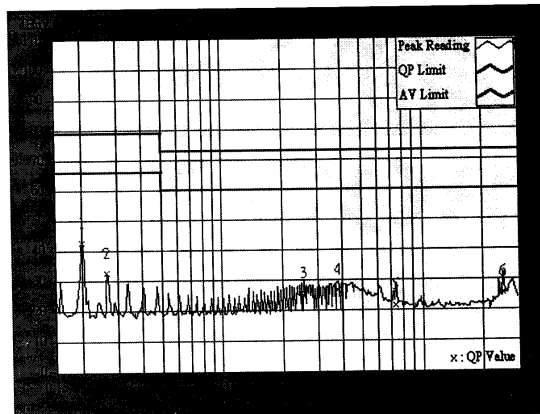




EUT	Industrial Computer	Panel	MODEL	P3-10AX-00
			6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz		PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa		TESTED BY:	JN Chen

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.20	42.70	-	42.90	-	79.00
2	0.267	0.20	32.52	-	32.72	-	79.00	66.00	-46.28	-
3	2.562	0.26	25.66	-	25.92	-	73.00	60.00	-47.08	-
4	3.774	0.38	26.79	-	27.17	-	73.00	60.00	-45.83	-
5	7.304	0.51	21.52	-	22.03	-	73.00	60.00	-50.97	-
6	25.253	1.31	25.43	-	26.74	-	73.00	60.00	-46.26	-

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 - 1000	47	37

### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

- Note: (1) The lower limit shall apply at the transition frequencies.  
 (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 (3) All emanation 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.

### 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8594A	3144A00308	Aug. 16, 2001
HP Preamplifier	8447D	2944A08119	Jan 11, 2001
* HP Preamplifier	8449B	3008A01201	Dec. 13, 2001
* ROHDE & SCHWARZ TEST RECEIVER	ES17	838496/016	Feb. 20, 2002
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2001
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 25, 2002
* CHASE Bilog Antenna	CBL6112A	2329	Sept. 19, 2001
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 9, 2001
* EMCO Turn Table	1060	1195	NA
* EMCO Tower	1051	1163	NA
* Software	AS61D	NA	NA
* ANRITSU RF Switches	MP59B	E10124	Sept. 19, 2001
* TIMES RF cable	LMR-600	CABLE-ST2-01	Sept. 19, 2001
Open Field Test Site	Site 2	ADT-R02	Sept. 8, 2001
VCCI Site Registration No.	Site 2	R-237	NA

- NOTE:** 1. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.  
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.  
 3. "\*" = These equipments are used for the final measurement.



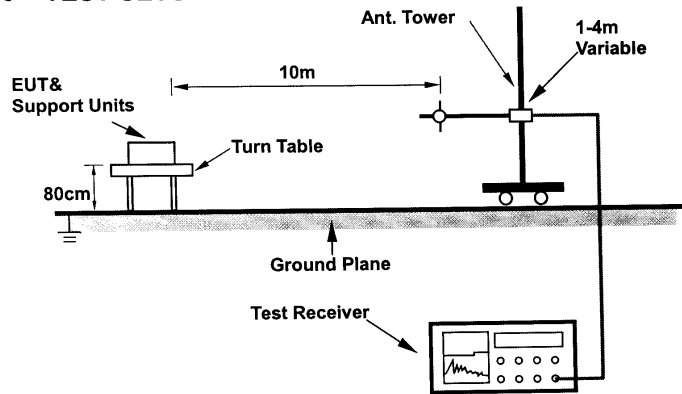
#### 4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.
- g. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference antenna and the detect function was set to Peak or Average.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



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

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



#### 4.2.7 TEST RESULTS ( A )

<b>EUT</b>	Industrial Panel Computer	<b>MODEL</b>	P3-15AX-00
		<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 70 % RH, 1050 hPa	<b>TESTED BY:</b>	JN Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M												
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)	
1	66.81	28.0 QP	40.00	-12.00	4.00H	357	22.05	4.97	0.97	0.00	-5.93	
2	80.17	32.1 QP	40.00	-7.90	4.00H	330	24.78	6.33	0.97	0.00	-7.30	
3	167.03	33.8 QP	40.00	-6.20	4.00H	104	23.78	8.69	1.28	0.00	-9.97	
4	200.44	31.1 QP	40.00	-8.90	4.00H	272	21.08	8.62	1.35	0.00	-9.97	
5	227.46	30.4 QP	40.00	-9.60	4.00H	314	18.54	10.41	1.44	0.00	-11.85	
6	233.86	39.0 QP	47.00	-8.00	4.00H	179	26.64	10.90	1.46	0.00	-12.37	
7	334.07	43.5 QP	47.00	-3.50	2.55H	317	27.90	13.79	1.77	0.00	-15.56	
8	434.30	36.8 QP	47.00	-10.20	1.64H	216	18.63	16.20	2.01	0.00	-18.21	
9	467.70	35.9 QP	47.00	-11.10	2.27H	317	17.06	16.71	2.12	0.00	-18.84	
10	501.12	35.8 QP	47.00	-11.20	1.41H	93	16.25	17.36	2.23	0.00	-19.59	
11	567.96	41.2 QP	47.00	-5.80	1.37H	290	20.34	18.56	2.33	0.00	-20.89	
12	601.38	43.9 QP	47.00	-3.10	1.46H	164	22.80	18.68	2.45	0.00	-21.13	
13	734.99	35.5 QP	47.00	-11.50	1.48H	183	13.04	19.72	2.69	0.00	-22.41	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M												
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)	
1	66.82	27.3 QP	40.00	-12.70	3.11V	118	21.37	4.97	0.97	0.00	-5.93	
2	133.59	24.1 QP	40.00	-15.90	1.00V	193	11.77	11.18	1.20	0.00	-12.38	
3	167.04	35.2 QP	40.00	-4.80	1.00V	165	25.23	8.69	1.28	0.00	-9.97	
4	200.45	35.2 QP	40.00	-4.80	1.00V	113	25.27	8.62	1.35	0.00	-9.97	
5	233.85	38.9 QP	47.00	-8.10	1.00V	359	26.50	10.90	1.46	0.00	-12.38	
6	567.96	39.7 QP	47.00	-7.30	3.04V	167	18.82	18.56	2.33	0.00	-20.90	
7	601.37	43.2 QP	47.00	-3.80	2.54V	175	22.07	18.68	2.45	0.00	-21.14	
8	735.02	38.6 QP	47.00	-8.40	2.31V	193	16.19	19.72	2.69	0.00	-22.42	

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.



<b>EUT</b>	Industrial Panel Computer	<b>MODEL</b>	P3-15AX-00
		<b>FREQUENCY RANGE</b>	1000-5000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 70 % RH, 1050 hPa	<b>TESTED BY:</b> JN Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)	
1	1069.10	43.6 pk	80.00	-36.40	1.00H	210	16.19	24.54	2.89	0.00	-27.43	
2	1135.90	43.4 pk	80.00	-36.60	1.00H	158	15.69	24.68	3.00	0.00	-27.68	
3	1536.70	41.9 pk	80.00	-38.10	1.00H	187	12.88	25.46	3.52	0.00	-28.98	
4	1839.70	45.6 pk	80.00	-34.40	1.00H	305	15.66	25.94	4.01	0.00	-29.95	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)	
1	1068.90	45.1 pk	80.00	-34.90	1.00V	200	17.66	24.54	2.89	0.00	-27.43	
2	1269.50	40.8 pk	80.00	-39.20	1.00V	274	12.66	24.94	3.24	0.00	-28.18	
3	1670.80	41.4 pk	80.00	-38.60	1.00V	115	11.88	25.67	3.85	0.00	-29.53	
4	1804.10	40.7 pk	80.00	-39.30	1.00V	322	10.88	25.88	3.93	0.00	-29.81	

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.



#### 4.2.8 TEST RESULTS ( B )

<b>EUT</b>	Industrial Panel Computer	<b>MODEL</b>	P3-12AX-00
		<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 70 % RH, 1050 hPa	<b>TESTED BY:</b>	JN Chan

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	66.81	31.8 QP	40.00	-8.20	4.00H	344	25.89	4.97	0.97	0.00	-5.93
2	95.88	35.0 QP	40.00	-5.00	4.00H	299	25.70	8.25	1.00	0.00	-9.26
3	133.64	30.4 QP	40.00	-9.60	4.00H	223	18.03	11.18	1.20	0.00	-12.38
4	200.44	35.4 QP	40.00	-4.60	4.00H	28	25.46	8.62	1.35	0.00	-9.97
5	233.84	35.0 QP	47.00	-12.00	4.00H	249	22.67	10.90	1.46	0.00	-12.37
6	334.08	41.4 QP	47.00	-5.60	1.88H	122	25.85	13.79	1.77	0.00	-15.57
7	567.97	39.0 QP	47.00	-8.00	1.20H	313	18.09	18.56	2.33	0.00	-20.90
8	601.36	43.3 QP	47.00	-3.70	1.79H	156	22.19	18.68	2.45	0.00	-21.14
9	868.65	38.6 QP	47.00	-8.40	1.00H	68	15.67	20.12	2.85	0.00	-22.97

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	66.82	33.5 QP	40.00	-6.50	1.62V	360	27.54	4.97	0.97	0.00	-5.93
2	95.88	35.2 QP	40.00	-4.80	1.06V	80	25.97	8.25	1.00	0.00	-9.26
3	167.05	36.4 QP	40.00	-3.60	1.00V	359	26.45	8.69	1.28	0.00	-9.97
4	200.44	34.2 QP	40.00	-5.80	1.00V	88	24.20	8.62	1.35	0.00	-9.98
5	239.02	43.0 QP	47.00	-4.00	1.00V	105	30.32	11.23	1.48	0.00	-12.71
6	303.50	36.4 QP	47.00	-10.60	1.00V	321	21.67	13.01	1.71	0.00	-14.72
7	567.95	36.0 QP	47.00	-11.00	2.68V	27	15.12	18.56	2.33	0.00	-20.89
8	601.37	43.0 QP	47.00	-4.00	2.68V	165	21.91	18.68	2.45	0.00	-21.13
9	868.65	34.0 QP	47.00	-13.00	2.03V	274	11.01	20.12	2.85	0.00	-22.97

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.





<b>EUT</b>	Industrial Panel Computer	<b>MODEL</b>	P3-12AX-00
		<b>FREQUENCY RANGE</b>	1000-5000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 70 % RH, 1050 hPa	<b>TESTED BY:</b>	<i>JN Chen</i>

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	1069.00	43.9 pk	80.00	-36.10	1.00H	91	16.44	24.54	2.89	0.00	-27.43
2	1136.00	46.3 pk	80.00	-33.70	1.00H	238	18.59	24.68	3.00	0.00	-27.68
3	1403.40	40.3 pk	80.00	-39.70	1.00H	307	11.78	25.20	3.36	0.00	-28.56
4	1603.50	40.8 pk	80.00	-39.20	1.00H	84	11.50	25.56	3.78	0.00	-29.35
5	1804.10	40.9 pk	80.00	-39.10	1.00H	288	11.06	25.88	3.93	0.00	-29.81

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	1069.20	42.2 pk	80.00	-37.80	1.00V	24	14.75	24.54	2.89	0.00	-27.43
2	1269.60	40.9 pk	80.00	-39.10	1.00V	65	12.72	24.94	3.24	0.00	-28.18
3	1403.20	40.6 pk	80.00	-39.40	1.00V	271	12.09	25.20	3.36	0.00	-28.56
4	1403.20	41.1 pk	80.00	-38.90	1.00V	288	12.56	25.20	3.36	0.00	-28.56
5	1603.60	40.3 pk	80.00	-39.70	1.00V	168	10.94	25.56	3.78	0.00	-29.34

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.



#### 4.2.9 TEST RESULTS ( C )

EUT	Industrial Panel Computer	MODEL	P3-10AX-00
		FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 70 % RH, 1050 hPa	TESTED BY:	JN Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	100.29	32.4 QP	40.00	-7.60	4.00H	248	21.46	9.82	1.08	0.00	-10.90
2	133.64	29.4 QP	40.00	-10.60	4.00H	260	17.07	11.18	1.20	0.00	-12.38
3	167.03	35.1 QP	40.00	-4.90	4.00H	82	25.15	8.69	1.28	0.00	-9.97
4	200.45	32.5 QP	40.00	-7.50	4.00H	328	22.55	8.62	1.35	0.00	-9.97
5	233.86	35.2 QP	47.00	-11.80	3.70H	3	22.85	10.90	1.46	0.00	-12.37
6	334.09	38.4 QP	47.00	-8.60	2.12H	137	22.84	13.79	1.77	0.00	-15.57
7	601.37	43.4 QP	47.00	-3.60	1.30H	155	22.23	18.68	2.45	0.00	-21.14
8	735.00	35.4 QP	47.00	-11.60	1.64H	348	13.00	19.72	2.69	0.00	-22.41
9	868.66	39.5 QP	47.00	-7.50	1.00H	172	16.56	20.12	2.85	0.00	-22.97

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	66.81	25.7 QP	40.00	-14.30	1.00H	358	46.79	4.97	0.97	27.00	21.07
2	167.03	37.0 QP	40.00	-3.00	1.00V	187	26.99	8.69	1.28	0.00	-9.98
3	200.44	30.2 QP	40.00	-9.80	1.00V	272	20.23	8.62	1.35	0.00	-9.98
4	233.85	39.6 QP	47.00	-7.40	1.00V	353	27.27	10.90	1.46	0.00	-12.37
5	334.10	41.3 QP	47.00	-5.70	1.00V	47	25.71	13.79	1.77	0.00	-15.57
6	487.52	37.3 QP	47.00	-9.70	3.99V	192	18.01	17.13	2.19	0.00	-19.32
7	601.38	41.8 QP	47.00	-5.20	3.98V	206	20.64	18.68	2.45	0.00	-21.13
8	735.01	36.1 QP	47.00	-10.90	2.46V	182	13.69	19.72	2.69	0.00	-22.41

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.



<b>EUT</b>	Industrial Panel Computer	<b>MODEL</b>	P3-10AX-00
		<b>FREQUENCY RANGE</b>	1000-5000 MHz
<b>INPUT POWER</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak, 1MHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 70 % RH, 1050 hPa	<b>TESTED BY:</b> <i>JN Chen</i>	

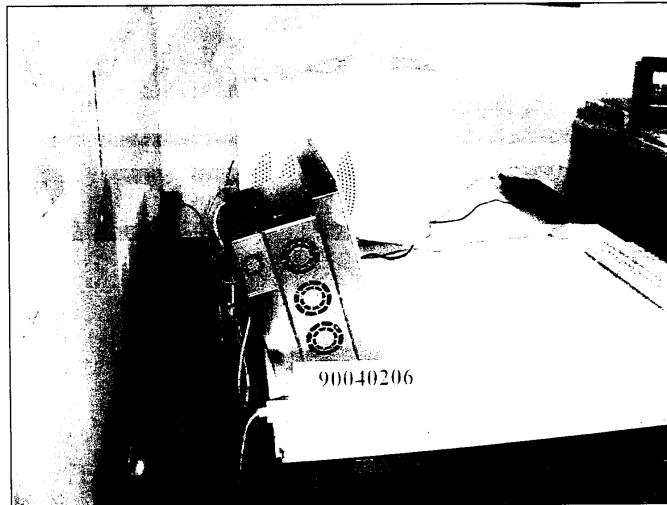
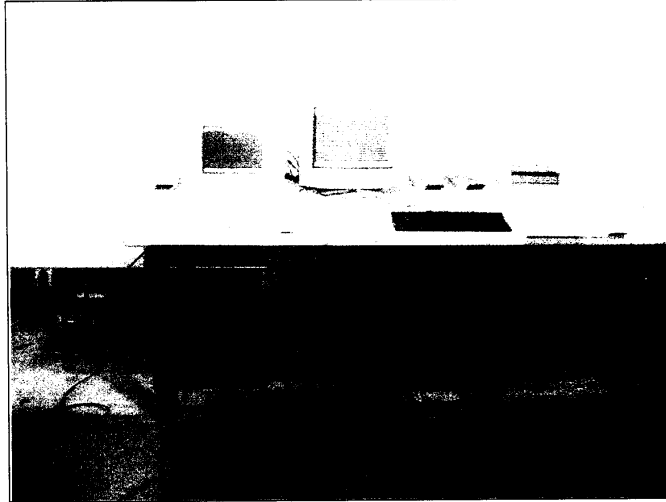
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	1135.70	45.7 pk	80.00	-34.30	1.00H	139	18.06	24.68	3.00	0.00	-27.68
2	1269.70	39.5 pk	80.00	-40.50	1.00H	218	11.28	24.94	3.24	0.00	-28.18
3	1403.10	40.9 pk	80.00	-39.10	1.00H	55	12.34	25.20	3.36	0.00	-28.57
4	1536.70	39.9 pk	80.00	-40.10	1.00H	104	10.88	25.46	3.52	0.00	-28.98
5	1603.60	40.9 pk	80.00	-39.10	1.00H	123	11.56	25.56	3.78	0.00	-29.34
6	1803.90	40.8 pk	80.00	-39.20	1.00H	55	10.94	25.88	3.93	0.00	-29.81

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	1069.10	44.2 pk	80.00	-35.80	1.00V	49	16.81	24.54	2.89	0.00	-27.43
2	1135.90	47.4 pk	80.00	-32.60	1.00V	331	19.69	24.68	3.00	0.00	-27.68
3	1269.60	41.5 pk	80.00	-38.50	1.00V	286	13.31	24.94	3.24	0.00	-28.18
4	1403.20	39.3 pk	80.00	-40.70	1.00V	72	10.72	25.20	3.36	0.00	-28.57
5	1536.60	40.6 pk	80.00	-39.40	1.00V	87	11.63	25.46	3.52	0.00	-28.99
6	1603.40	41.1 pk	80.00	-38.90	1.00V	324	11.75	25.56	3.78	0.00	-29.34
7	1670.60	40.6 pk	80.00	-39.40	1.00V	109	11.03	25.67	3.85	0.00	-29.53

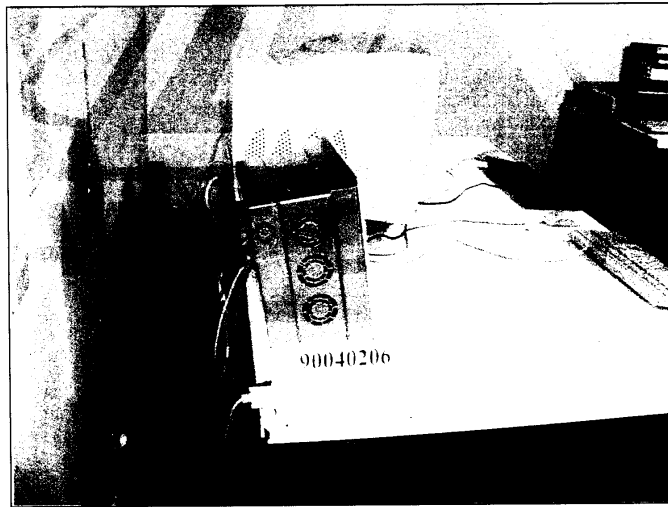
- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
  2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
  3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
  4. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST ( for P3-15AX-00 )

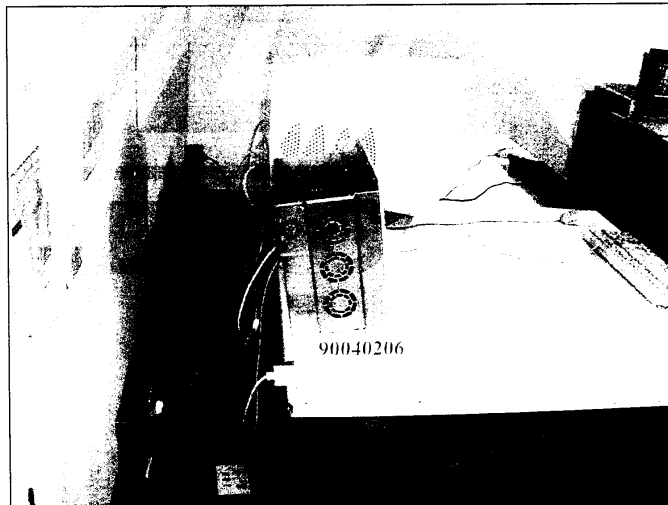
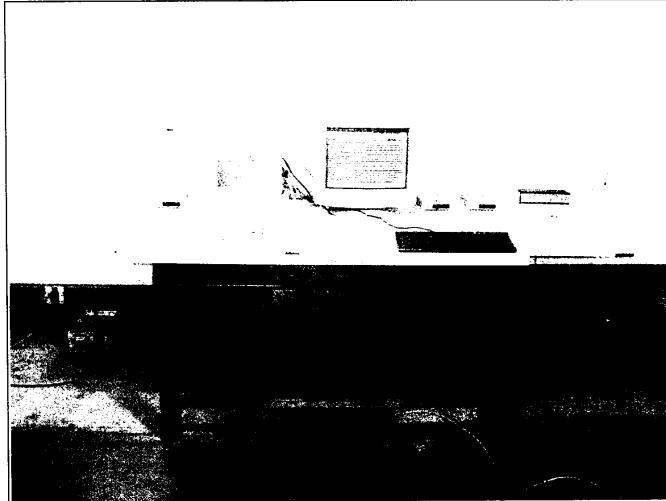


( for P3-12AX-00 )

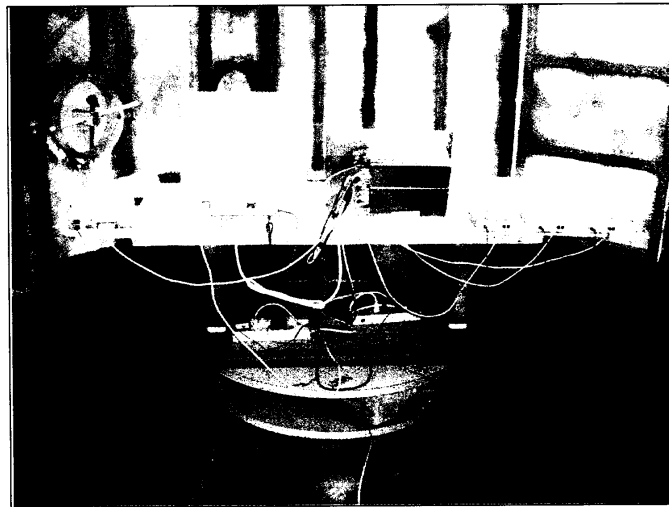
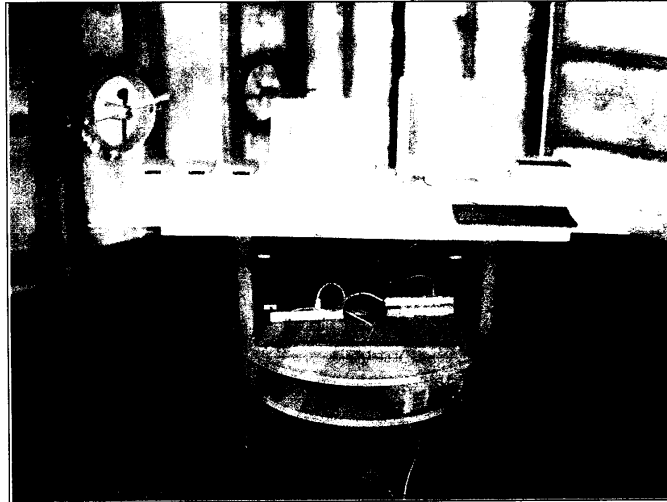




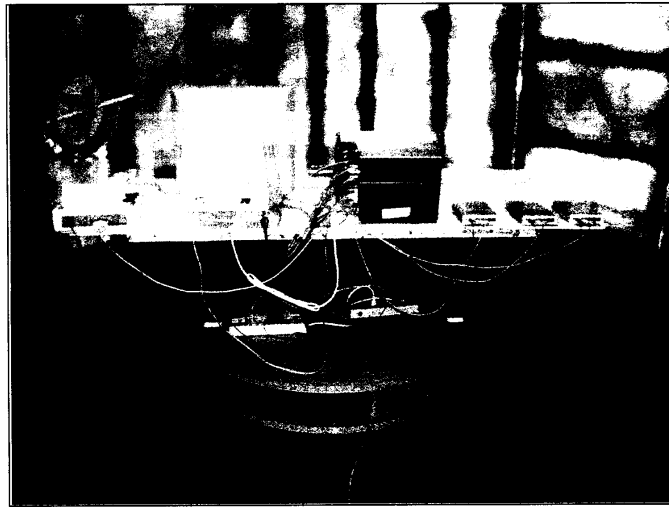
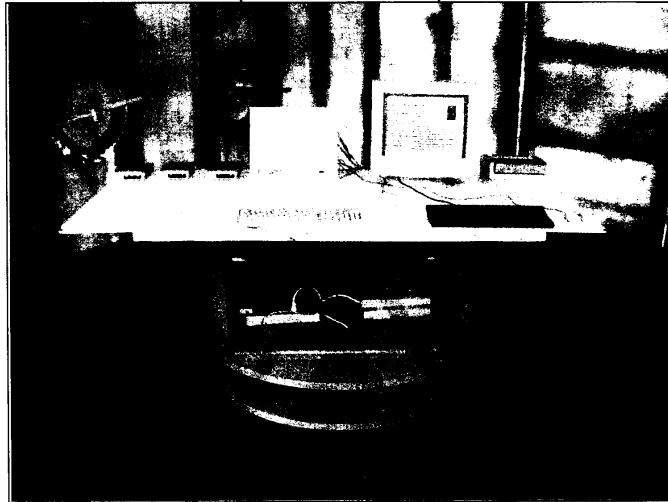
( for P3-10AX-00 )



RADIATED EMISSION TEST ( for P3-15AX-00 )

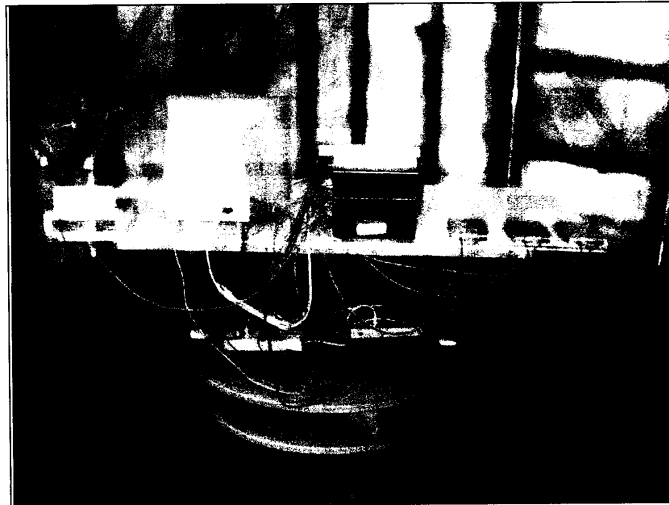
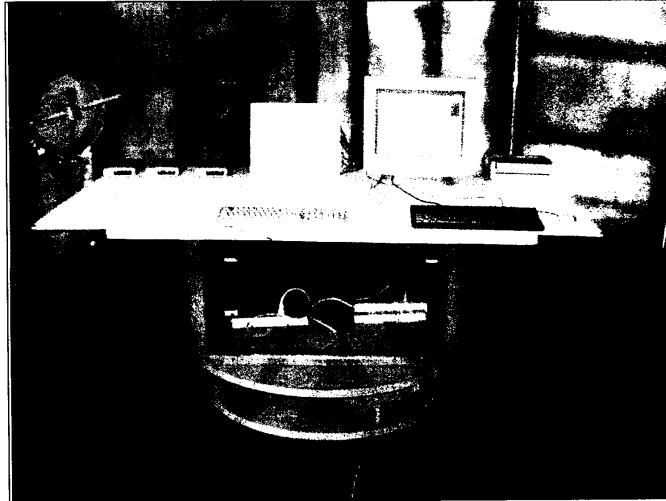


( for P3-12AX-00 )





( for P3-10AX-00 )





## 6 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

<b>USA</b>	FCC, NVLAP
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>New Zealand</b>	MoC
<b>Norway</b>	NEMKO, DNV
<b>U.K.</b>	INCHCAPE
<b>R.O.C.</b>	BSMI

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).  
If you have any comments, please feel free to contact us at the following:

**Lin Kou EMC Lab:**  
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**Email:** [service@mail.adt.com.tw](mailto:service@mail.adt.com.tw)  
**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



## CONSTRUCTION PHOTOS OF EUT

