HomeTek Technology Inc.

ADDRESS: No.85-5, Shir Men Road, Tu Cheng City,
Taipei Hsien, TAIWAN, R. O. C.
PHONE : 886-2-22608375 FAX : 886-2-22748013
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CERTIFICATE OF COMPLIANCE

EUT : Flat Panel Industrial Display Panel
MODEL NO. : AMB-223T
Final Test Date : 12/2/98 REPORT #: EA7K015
APPLICANT : Astech Technology CO., LTD.
ADDRESS : 6F-4, NO. 351, CHUNG-SHAN RD.,
SEC. 2, CHUNG-HO CITY, TAIPEI,
TAIWAN, R. O. C.

MEASUREMENT PROCEDURE USED :

- ☑ EN50081-1 (1992)
- ☐ EN50081-2 (1992)
  - ☐ EN55011 (1994)
  - ☑ EN55022 (1994)
  - ☐ EN60555-2 (1987)
  - ☐ EN60555-3 (1987)
- ☑ EN50082-1 (1992)
- ☐ EN50082-2 (1992)
  - ☑ IEC 801-2 (1984)
  - ☑ IEC 801-3 (1984)
  - ☑ IEC 801-4 (1988)

WE HEREBY SHOW THAT :

THE MEASUREMENT SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE LIMITS APPLICABLE.

THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.

THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL OF HOMETEK TECHNOLOGY INC.

PREPARED BY : Angel ANGEL CHEN DATE : 12/4/'98

CHECK BY : Mike Huang MIKE HUANG DATE : 12/4/98

APPROVED BY : Grant Huang GRANT HUANG/Manager DATE : 12/4/98

三上科技 文管中心 87.12.10 發行章

Declaration of Conformity

We(Manufacturer/Importer)

Astech Technology CO., LTD.
(company name)

6F-4, NO. 351, CHUNG-SHAN RD., SEC. 2, CHUNG-HO CITY, TAIPEI, TAIWAN, R. O. C.
(address)

declares under our sole responsibility that the product

Product name : Flat Panel Industrial Display Panel

Model No. : AMB-223T

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

☑ EN50081-1 (1992)	☑ EN50082-1 (1992)
☐ EN50081-2 (1992)	☐ EN50082-2 (1992)
☐ EN55011 (1994)	☑ IEC 801-2 (1984)
☑ EN55022 (1994)	☑ IEC 801-3 (1984)
☐ EN60555-2 (1987)	☑ IEC 801-4 (1988)
☐ EN60555-3 (1987)	☐ IEC 1000-4-5
	☐ IEC 1000-4-8
	☐ IEC 1000-4-11

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____

CE Title: _____

EMC LAB HomeTek Tested by HomeTek Technology Inc. Report#: EA7K015

Signature: Gant Hung Date: 12/4/98

Declaration of Conformity

We(Manufacturer/Importer)

Astech Technology CO., LTD.
(company name)

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declares under our sole responsibility that the product

Product name : Flat Panel Industrial Display Panel

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- ☑ EN50081-1 (1992)
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  - ☐ EN55011 (1994)
  - ☑ EN55022 (1994)
  - ☐ EN60555-2 (1987)
  - ☐ EN60555-3 (1987)
- ☑ EN50082-1 (1992)
- ☐ EN50082-2 (1992)
  - ☑ IEC 801-2 (1984)
  - ☑ IEC 801-3 (1984)
  - ☑ IEC 801-4 (1988)
  - ☐ IEC 1000-4-5
  - ☐ IEC 1000-4-8
  - ☐ IEC 1000-4-11

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____

CE Title: _____

EMC LAB HomeTek Tested by HomeTek Technology Inc. Report#: EA7K015
Signature: _____ Date: 12/4/98

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GENERAL INFORMATION

1 APPLICANT : Astech Technology CO., LTD.

2 ADDRESS : 6F-4, NO. 351, CHUNG-SHAN RD.,
SEC. 2, CHUNG-HO CITY, TAIPEI,
TAIWAN, R. O. C.

3 DESCRIPTION OF EUT :

EUT	:	Flat Panel Industrial Display Panel
Model	:	AMB-223T
Serial #	:	N/A
Data Cable	:	SHIELDED
Power Cord	:	N/A
Power Supply Type	:	N/A

4 FEATURES OF EUT :

4.1 Heavy-duty steel chassis, NEMA 4/12 plastic front panel

4.2 CRT monitor resolutions up to 1280 x 1024

4.3 12.1" SVGA (800x600 resolution) color TFT LCD display

4.4 Analog resistive touchscreen (option)

4.5 ISA-bus (default) graphic card (MBC-265+LVDS interface) or PCI-bus (MBC-266+LVDS interface)

4.6 DB-25 cable (1.8 up to 20 meters)

4.7 Brightness and contrast controls on the back panel

4.8 DB-25 (for LCD) and DB-9 (for touchscreen) connectors on the back panel

4.9 Panel mount

MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model #	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30	2/26/98
2	LISN	50 Ω/50uH/100A 9KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121	2/28/98
3	LISN	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5	2/24/98
4	ESXS-K1	Version 2.03b	ROHDE & SCHWARZ	1082.9678.02 840.913/246	FEB/98
5	Cables	10KHz ~ 30MHz		NO : 10	JUL/98
6	Pulse Limiter	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3Z2 357.8810.52	JUL/98

2 TEST PROCEDURE

2.1 The EUT was tested according to **EN55022 Class A.**

2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.

2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.

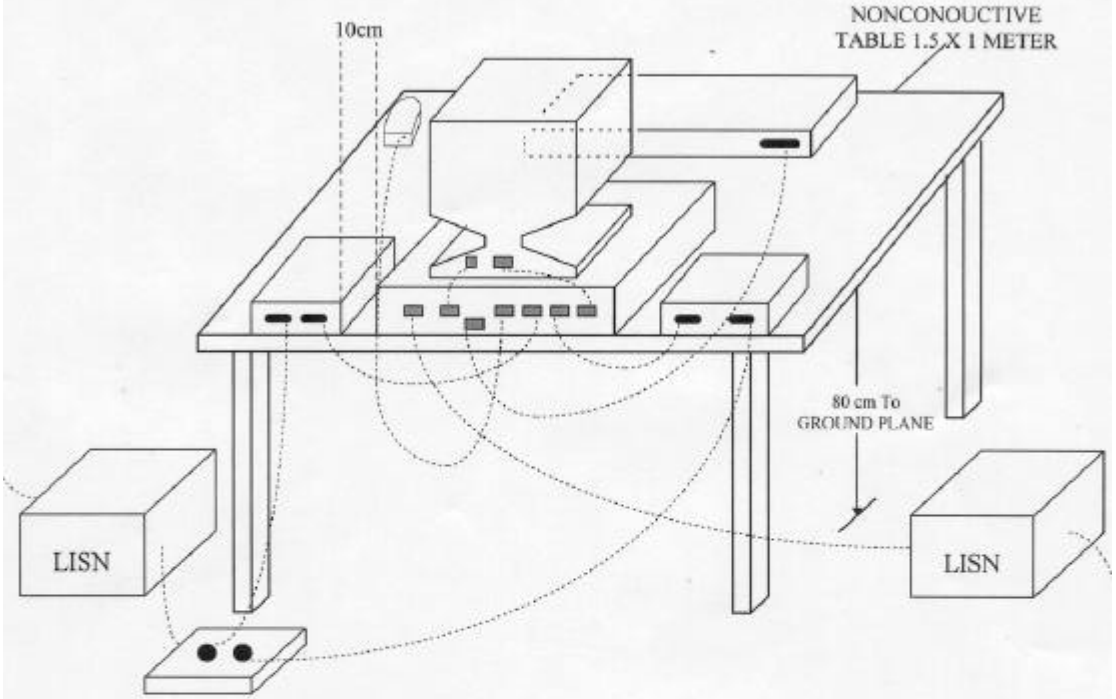
2.4 The LISN used was 50 Ohm / 50 uHenry as specified by**EN55022 Class A.**

2.5 All the support peripherals are connect to the other LISN.

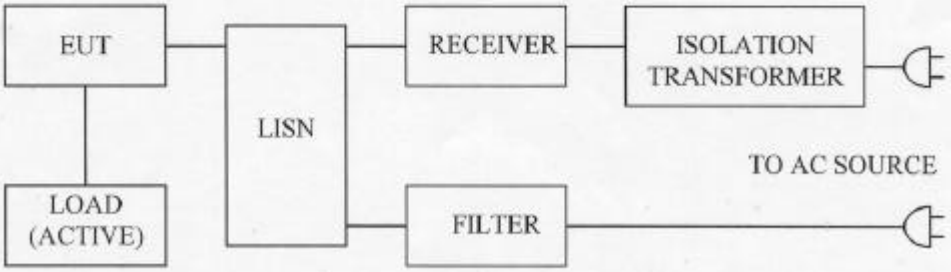
2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

3 TEST SETUP

3.1 Typical : Setup Of Conducted Test



3.2 Block Diagram Of Conducted Test



4 CONFIGURATION OF THE EUT

4.1 The EUT was configured according to **EN55022 Class A.** All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below :

EUT				
Device	Manufacturer	Model No.	Power Cable	Data Cable
Flat Panel Industrial Display Panel	Astech	AMB-223T	N/A	Shielded
PERIPHERALS				
PC	CHAINTECH	6LTM	Un-Shielded	Shielded
MONITOR	HITACHI	CM803U	Un-Shielded	Shielded
PRINTER	HP	DJ400	Un-Shielded	Shielded
MODEM	DATATRONIC	2814CX	Un-Shielded	Shielded
MOUSE (PS II)	HP	M-S34	N/A	Shielded
KEY BOARD (PS II)	AST	SK-2000REW	N/A	Shielded
KEY BOARD (USB)	SILITEK	SK-2000U	N/A	Shielded
INTERNAL DEVICES				
VGA CARD	Astech	MBC-266B	N/A	Shielded
REMARK				

5 OPERATING CONDITION OF EUT

5.1 Operating condition is according to **EN55022 Class A**.

5.2 The oscillator frequency of the EUT were 38.362 MHz.

5.3 Turn on the power of all equipments.

5.4 Test program sent "H" pattern to peripherals as following :

5.4.1 Printer

5.4.2 Monitor

5.4.3 Modem

5.4.4 Keyboard

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS A :

Frequency Range	Quasi Peak	Average
0.15 ~ 0.5 MHz	79 dBuV	66 dBuV
0.5 ~ 5 MHz	73 dBuV	60 dBuV
5 ~ 30 MHz	73 dBuV	60 dBuV

7 RESULT OF CONDUCTED POWER LINE TEST (1)

7.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

7.2 IF bandwidth : 10 kHz, Meas Time : 1 sec.

7.3 Temperature : 21 ℃, Humidity : 72 % RH.

7.4 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.255	50.31	49.64	79
0.384	50.35	49.29	79
1.025	41.97	39.06	73
2.530	28.81	30.70	73
7.100	34.28	36.12	73
14.720	33.86	34.42	73

7.5 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.254	50.40	49.73	66
0.384	49.00	47.98	66
1.025	41.78	37.34	60
2.530	21.51	25.42	60
4.595	18.09	18.88	60
13.880	35.60	33.16	60

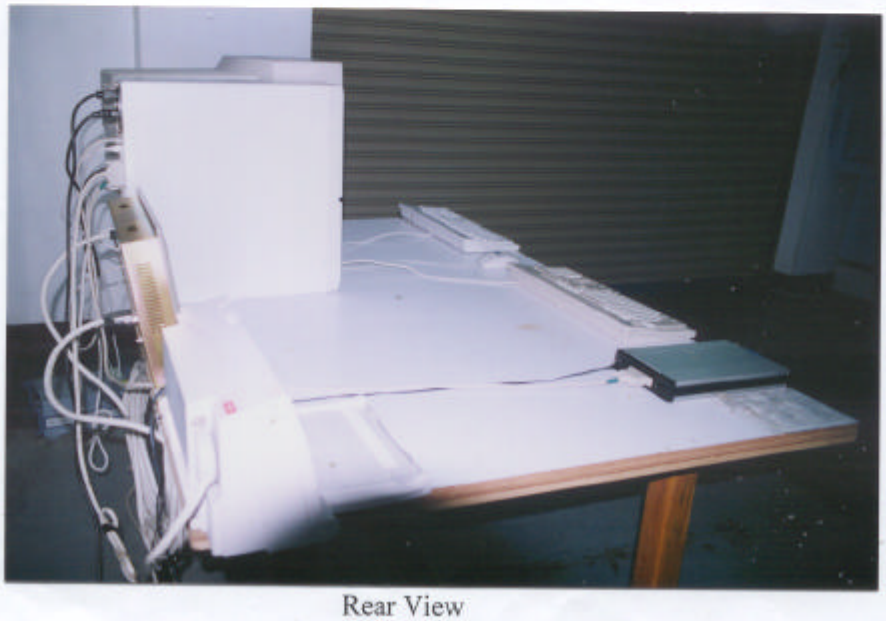
REMARK :

1. Model : AMB-223T
2. Measuring mode : 1280 x 1024 (CRT)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

8 PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : 1280 x 1024

Front View



Rear View

9 RESULT OF CONDUCTED POWER LINE TEST (2)

9.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

9.2 IF bandwidth : 10 kHz, Meas Time : 1 sec.

9.3 Temperature : 21 ℃, Humidity : 72 % RH.

9.4 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.170	45.26	44.91	79
0.304	42.30	41.25	79
1.270	31.92	31.92	73
2.880	31.72	31.42	73
9.620	25.35	24.21	73
23.120	28.15	28.21	73

9.5 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.169	42.89	42.04	66
0.303	42.41	41.30	66
1.270	28.56	27.64	60
3.020	24.17	24.00	60
9.200	20.46	17.59	60
23.120	25.50	25.46	60

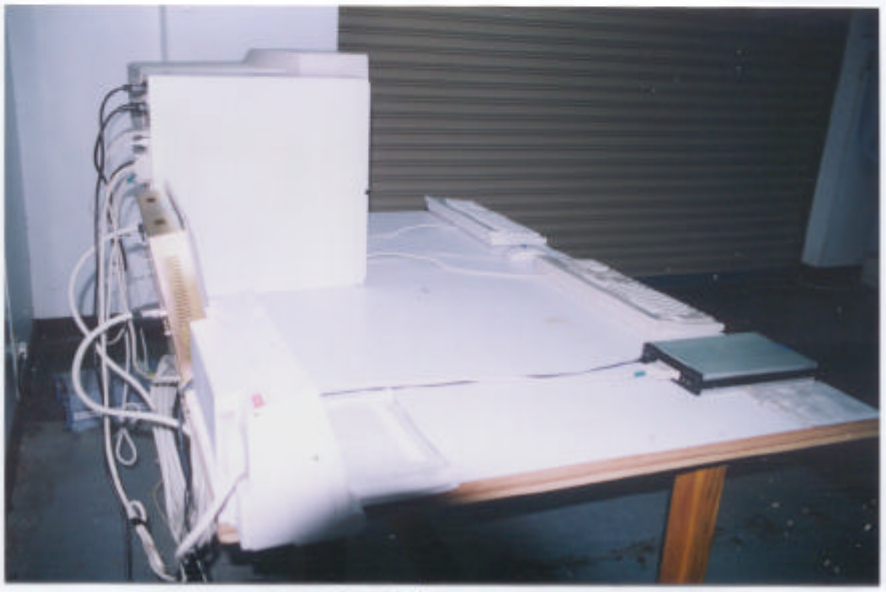
REMARK :

1. Model : AMB-223T
2. Measuring mode : 800 x 600 (LCD & CRT)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

10 PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : 800 x 600

Front View



Rear View

11 RESULT OF CONDUCTED POWER LINE TEST (3)

11.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

11.2 IF bandwidth : 10 kHz, Meas Time : 1 sec.

11.3 Temperature : 21 ℃, Humidity : 72 % RH.

11.4 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.169	54.79	46.21	79
0.303	54.64	44.30	79
1.270	32.18	31.42	73
3.020	31.65	30.23	73
6.620	32.88	32.30	73
20.960	23.39	24.45	73

11.5 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.168	54.84	44.62	66
0.303	54.71	44.30	66
1.270	28.73	26.81	60
2.810	24.64	23.54	60
6.620	27.64	26.93	60
21.440	22.05	21.15	60

REMARK :

1. Model : AMB-223T
2. Measuring mode : 640 x 480 (LCD & CRT)
3. Uncertainty in conduction emission measured : < ± 2.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

12 PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : 640 x 480

Front View

Rear View

RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model #	Date of Cal.
1	SPECTRUM ANALYZER	9KHz ~ 1.8GHz	HP	HP8591	4/8/98
2	EMI TEST RECEIVER	20MHz ~ 1GHz	ROHDE & SCHWARZ	ESVS10	2/19/98
3	AMPLIFIER	0.1MHz ~ 1.3 GHz	HP	8447D	5/19/98
4	SIGNAL GENERATOR	9KHz ~ 2080MHz	ROHDE & SCHWARZ	SMY02	2/8/98
5	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520	3/13/98
6	ANTENNA (DIPOLE)	30 ~ 300MHz	ROHDE & SCHWARZ	HZ-12	1/20/98
7	ANTENNA (DIPOLE)	300 ~ 1000MHz	ROHDE & SCHWARZ	HZ-13	1/20/98

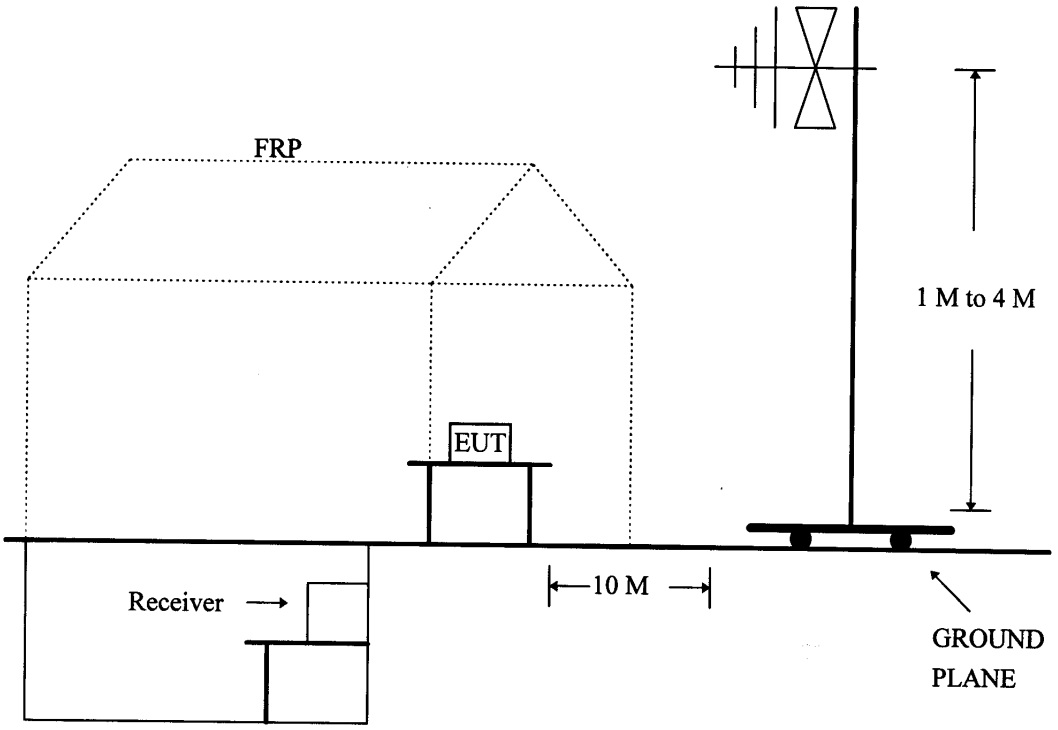
2 TEST PROCEDURE

2.1 The EUT was test according to **EN55022 Class A.**

2.2 The radiated test was performed at HomeTek Lab's Open Site II.

2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 TEST SETUP



4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 EUT OPERATING CONDITION

5.1 Same as "Conducted Power Line test", section 5

5.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab's open site II.

6 LIMIT OF RADIATED EMISSION CLASS A :

Frequency (MHz)	Measurement Distance	Limit (dBuV)
30 - 230	10 (M)	40
230 - 1000	10 (M)	47

7 RESULT OF RADIATED EMISSION TEST (1)

7.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

7.2 The measurements were made at 10 meters of HomeTek Lab's open site II.

7.3 Temperature : 21 ℃, Humidity : 72 % RH.

7.4 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
66.84	19.19	7.55	0.79	27.53	40
72.02	22.34	5.08	0.76	28.18	40
148.70	16.22	7.92	1.04	25.18	40
216.01	13.86	11.27	1.22	26.35	40
367.54	12.43	15.19	1.63	29.25	47
601.46	8.22	20.71	2.13	31.06	47
735.07	10.25	21.16	2.54	33.95	47
935.54	9.72	22.77	2.84	35.33	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 935.54 MHz .
- Corrected Reading : (9.72) + (22.77) + (2.84) = 35.33 . (Emission Level)

7 RESULT OF RADIATED EMISSION TEST (1)

7.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

7.2 The measurements were made at 10 meters of HomeTek Lab's open site II.

7.3 Temperature : 21 ℃, Humidity : 72 % RH.

7.4 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
66.84	19.19	7.55	0.79	27.53	40
72.02	22.34	5.08	0.76	28.18	40
148.70	16.22	7.92	1.04	25.18	40
216.01	13.86	11.27	1.22	26.35	40
367.54	12.43	15.19	1.63	29.25	47
601.46	8.22	20.71	2.13	31.06	47
735.07	10.25	21.16	2.54	33.95	47
935.54	9.72	22.77	2.84	35.33	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 935.54 MHz .
- Corrected Reading : (9.72) + (22.77) + (2.84) = 35.33 . (Emission Level)

8 PHOTO OF RADIATED EMISSION TEST

Test Mode : 1280 x 1024

Front View

Rear View

9 RESULT OF RADIATED EMISSION TEST (2)

9.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

9.2 The measurements were made at 10 meters of HomeTek Lab's open site II.

9.3 Temperature : 21 ℃, Humidity : 72 % RH.

9.4 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
66.45	8.63	7.70	0.76	17.09	40
176.38	17.56	9.65	1.09	28.30	40
224.34	15.43	11.93	1.24	28.60	40
296.93	27.54	13.49	1.50	42.53	47
306.84	26.00	13.94	1.46	41.40	47
336.52	20.87	14.75	1.52	37.14	47
402.51	16.80	15.86	1.68	34.34	47
935.55	7.30	22.72	2.92	32.94	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 935.55 MHz .
- Corrected Reading : (7.30) + (22.72) + (2.92) = 32.94 . (Emission Level)

9.5 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
38.22	10.53	18.03	0.61	29.17	40
72.58	20.77	7.96	0.76	29.49	40
131.98	18.23	12.12	1.00	31.35	40
221.04	18.55	11.81	1.24	31.60	40
237.56	19.54	12.91	1.35	33.80	47
290.36	24.47	12.10	1.50	38.07	47
418.68	14.52	15.96	1.70	32.18	47
935.53	3.29	23.12	2.84	29.25	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 935.53 MHz .
- Corrected Reading : (3.29) + (23.12) + (2.84) = 29.25 . (Emission Level)

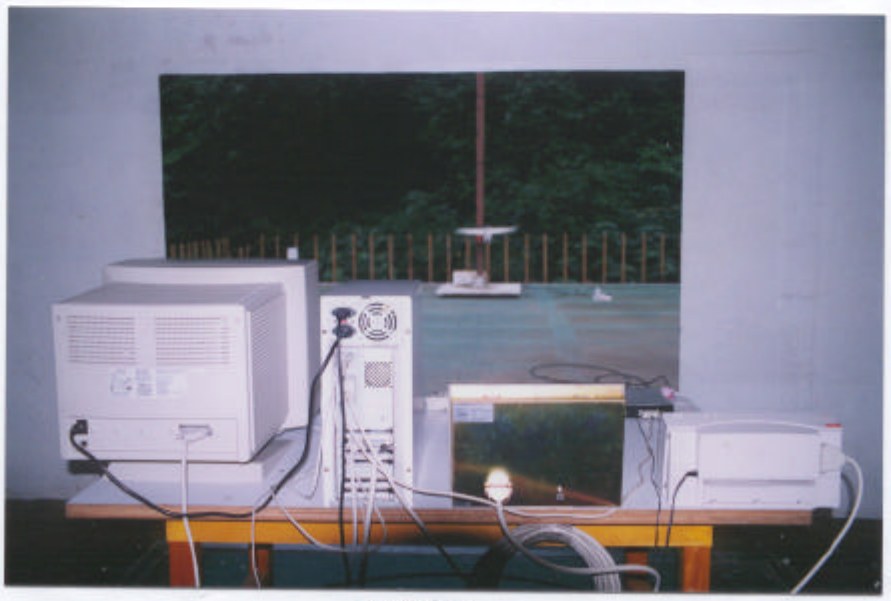
REMARK :

1. Model : AMB-223T
2. Measuring mode : 800 x 600 (LCD & CRT)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

10 PHOTO OF RADIATED EMISSION TEST

Test Mode : 800 x 600

Front View



Rear View

11 RESULT OF RADIATED EMISSION TEST (3)

11.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.

11.2 The measurements were made at 10 meters of HomeTek Lab's open site II.

11.3 Temperature : 21 ℃, Humidity : 72 % RH.

11.4 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
66.84	16.17	7.55	0.79	24.51	40
146.51	17.31	7.99	0.94	26.24	40
214.44	14.57	10.89	1.22	26.68	40
247.46	18.04	12.78	1.30	32.12	47
296.93	27.39	13.49	1.50	42.38	47
303.54	23.70	13.79	1.52	39.01	47
362.93	25.78	15.03	1.55	42.36	47
935.82	4.86	22.72	2.92	30.50	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 935.82 MHz .
- Corrected Reading : (4.86) + (22.72) + (2.92) = 30.50 . (Emission Level)

11.5 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
38.40	12.76	18.23	0.58	31.57	40
86.73	21.20	7.28	0.86	29.34	40
132.00	18.40	12.12	1.00	31.52	40
230.96	22.37	12.62	1.24	36.23	47
296.97	28.38	12.53	1.50	42.41	47
362.91	21.03	14.44	1.55	37.02	47
418.62	15.25	15.96	1.70	32.91	47
935.60	5.91	23.26	2.92	32.09	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 935.60 MHz .
- Corrected Reading : (5.91) + (23.26) + (2.92) = 32.09 . (Emission Level)

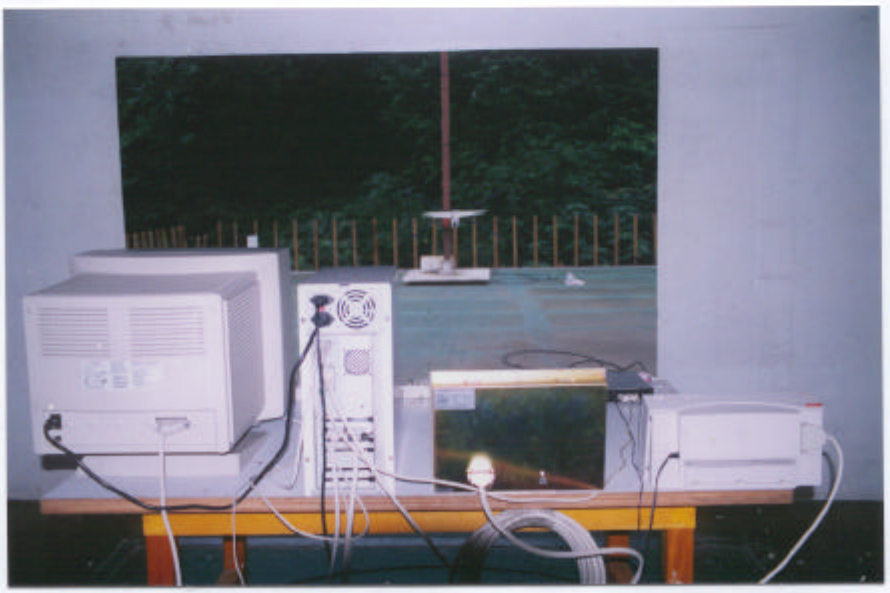
REMARK :

1. Model : AMB-223T
2. Measuring mode : 640 x 480 (LCD & CRT)
3. Uncertainty in radiated emission measured : < ± 4.0dB.
4. " * ", means this data is worse case emission level.
5. Result : **PASSED**

12 PHOTO OF RADIATED EMISSION TEST

Test Mode : 640 x 480

Front View



Rear View

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

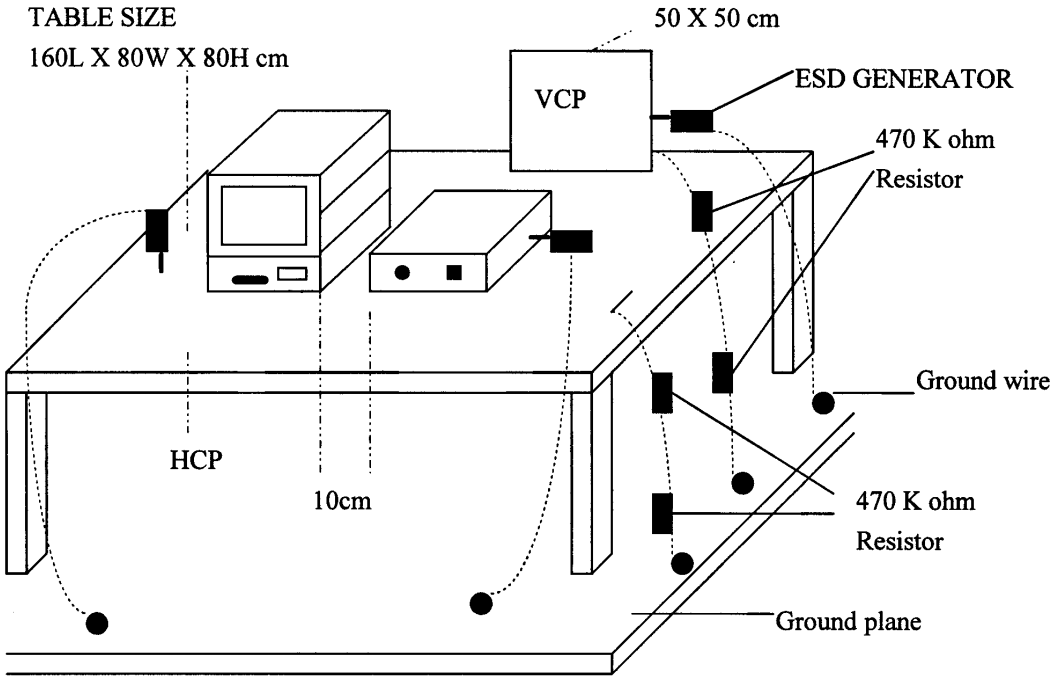
1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
ESD TESTER	HAEFELY	PESD 1600	MAR/98
VCP	HOMETEK	--	--

2 TEST PROCEDURE

According to **IEC 801-2**

3 TEST SETUP



4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 EUT OPERATION CONDITION

Same as "Conducted Power Line test", section 5

6 TEST CONDITION

6.1 Test Level :

(A) ± 8KV for air discharge.

(B) ± 4KV for contact discharge.

6.2 Number of test : 10 Discharge / Level

6.3 Time between test : 1 sec.

6.4 Temperature : 21 ℃

Humidity : 58 % RH.

7 PERFORMANCE CRITERIA

A. Normal performance within the specification.

B. Temporary degradation or loss function or performance which is self-recoverable.

C. Temporary degradation or loss function or performance which requires operator intervention system reset.

D. Degradation or loss function which is not recoverable due to damage of EUT or software, or loss of data.

8 TEST RESULT

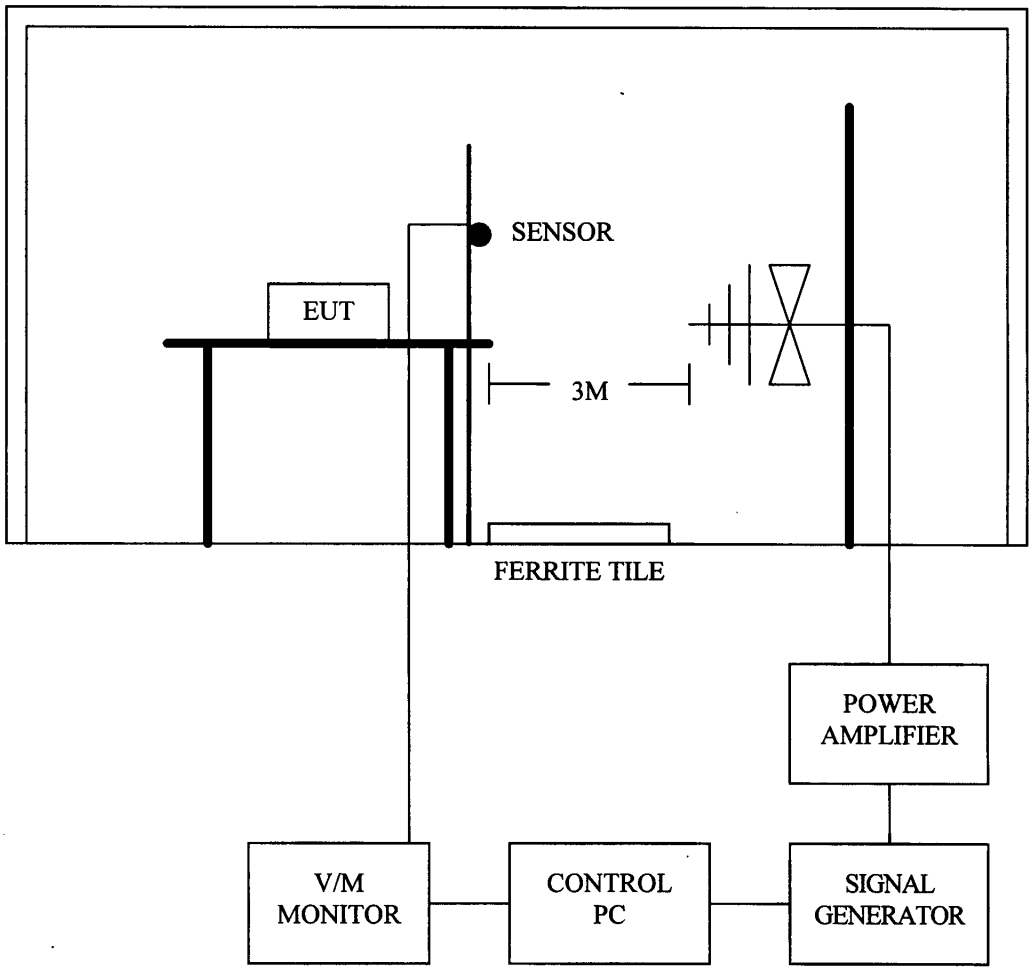
Test Point	Air Discharge	Contact Discharge	Performance Criteria	Result
VCP	--	± 4KV	B	PASSED
HCP	--	± 4KV	B	PASSED
CASE	± 8KV	± 4KV	B	PASSED
LED	± 8KV	± 4KV	B	PASSED
LCD	± 8KV	± 4KV	B	PASSED
I/O PORTS	± 8KV	± 4KV	B	PASSED
SCREWS	± 8KV	± 4KV	B	PASSED
FDD BUTTON	± 8KV	± 4KV	B	PASSED
COVER PLATE	± 8KV	± 4KV	B	PASSED
AC SOCKET	± 8KV	± 4KV	B	PASSED
Power Switch	± 8KV	± 4KV	B	PASSED

9 PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)
Test Mode : 800 x 600

9 PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)
Test Mode : 800 x 600

3 TEST SETUP

FERRITE TILE



3.1 Chamber Size :

8M x 4M x 3M

4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 OPERATION CONDITION OF EUT

Same as "Conducted Power Line test", section 5

6 TEST CONDITION

6.1 Frequency Range : 27 MHz ~ 500 MHz

6.2 Filed Strength : 3 V / M

6.3 Frequency Step : 1 %

6.4 Antenna Polarity : HORIZONTAL & VERTICAL

6.5 The four sides of EUT are tested
(FRONT, REAR, RIGHT, LEFT)

6.6 Temperature : 21 ℃
Humidity : 72 % RH

7 PERFORMANCE CRITERIA

A. Normal performance within the specification.

B. Temporary degradation or loss function or performance which is self-recoverable.

C. Temporary degradation or loss function or performance which requires operator intervention system reset.

D. Degradation or loss function which is not recoverable due to damage of EUT or software, or loss of data.

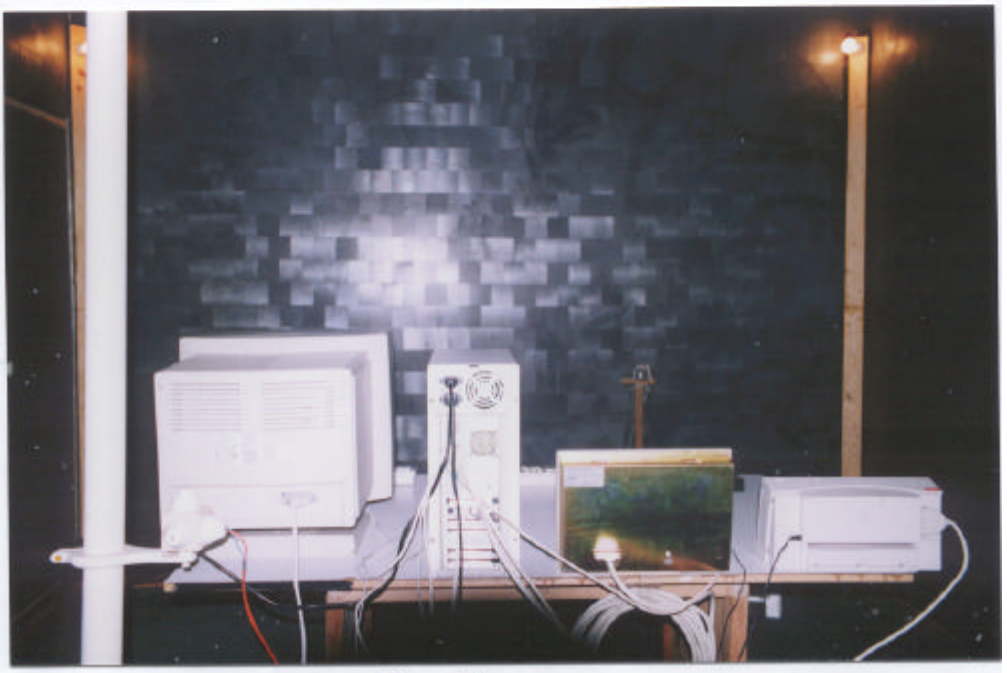
8 TEST RESULT

ANT / SIDE	HORIZONTAL	VERTICAL	RESULT
FRONT	A	A	PASSED
REAR	A	A	PASSED
RIGHT	A	A	PASSED
LEFT	A	A	PASSED

9 PHOTO OF RADIO FREQUENCY ELECTROMAGNETIC FILE IMMUNITY TEST (RS)

Test Mode : 800 x 600

Front View



Rear View

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

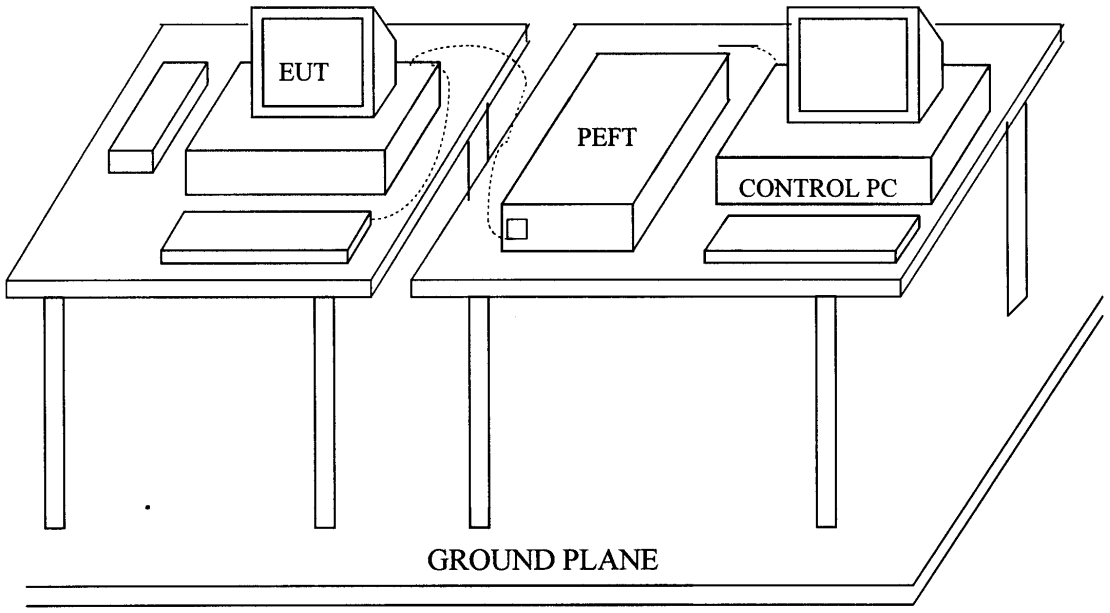
1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
BURST-TESTER	HAEFELY	PEFT/JUNIOR	MAR/98
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According to **IEC 801-4**

3 TEST SETUP



4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 OPERATION CONDITION OF EUT

Same as "Conducted Power Line test", section 5

6 TEST CONDITION

6.1 Pulse Rise time & Duration : 5nS / 50nS

6.2 Pulse Repetition : 5 kHz

6.3 Polarity : POSITIVE / NEGATIVE

6.4 Test Voltage of Power Lien : ± 0.5KV, ± 1KV

6.5 Coupling of power line :
L, N, PE, L+N, L+PE, N+PE, L+N+PE

6.6 Test Voltage of Signal Control Line : ± 0.25KV, ± 0.5KV

6.7 Temperature : 21 ℃
Humidity : 72 % RH

7 PERFORMANCE CRITERIA

A. Normal performance within the specification.

B. Temporary degradation or loss function or performance which is self-recoverable.

C. Temporary degradation or loss function or performance which requires operato intervention system reset.

D. Degradation or loss function which is not recoverable due to damage of EUT o software, or loss of data.

8 TEST RESULT

Power Line :

TEST VOLTAGE	L	N	PE	L+N	L+PE	N+PE	L+N+PE
± 0.5KV	B	B	B	B	B	B	B
± 1KV	B	B	B	B	B	B	B

Signal Control Line :

TEST VOLTAGE	PERFORMACE CRITERIA
± 0.25KV	B
± 0.5KV	B

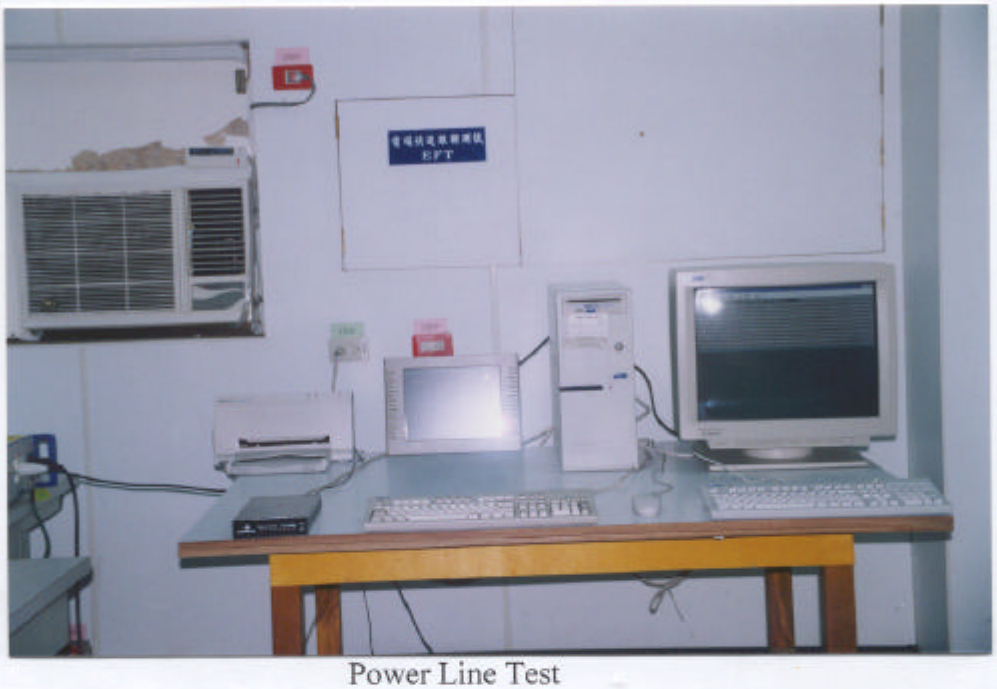
8.1 Test Mode : 800 x 600

8.2 Final Result : PASSED

8.3 Remark :

9 PHOTO OF ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

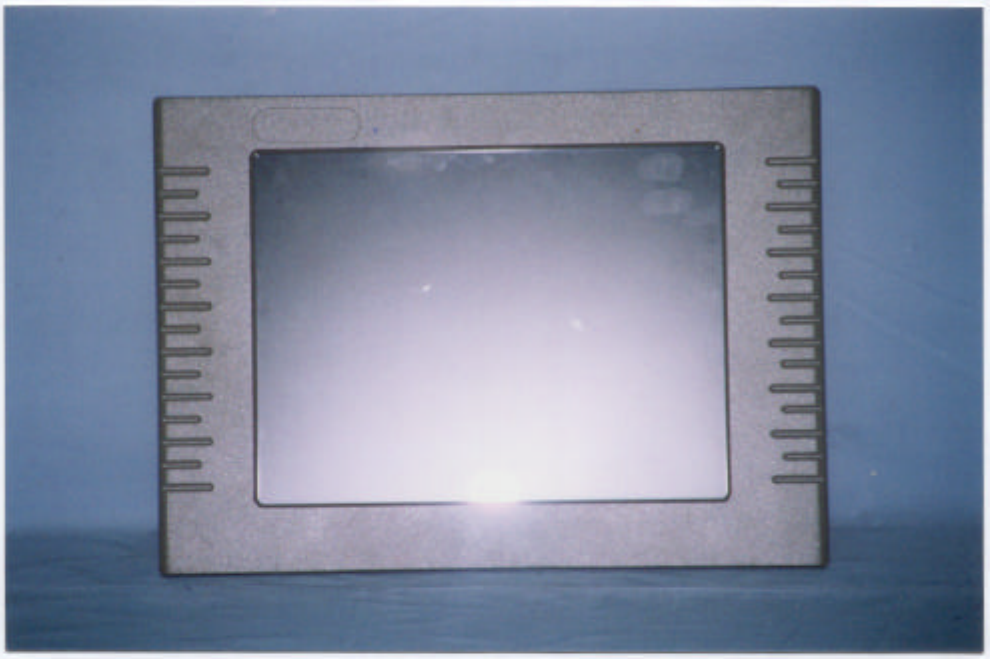
Test Mode : 800 x 600



Power Line Test

Signal Control Line Test

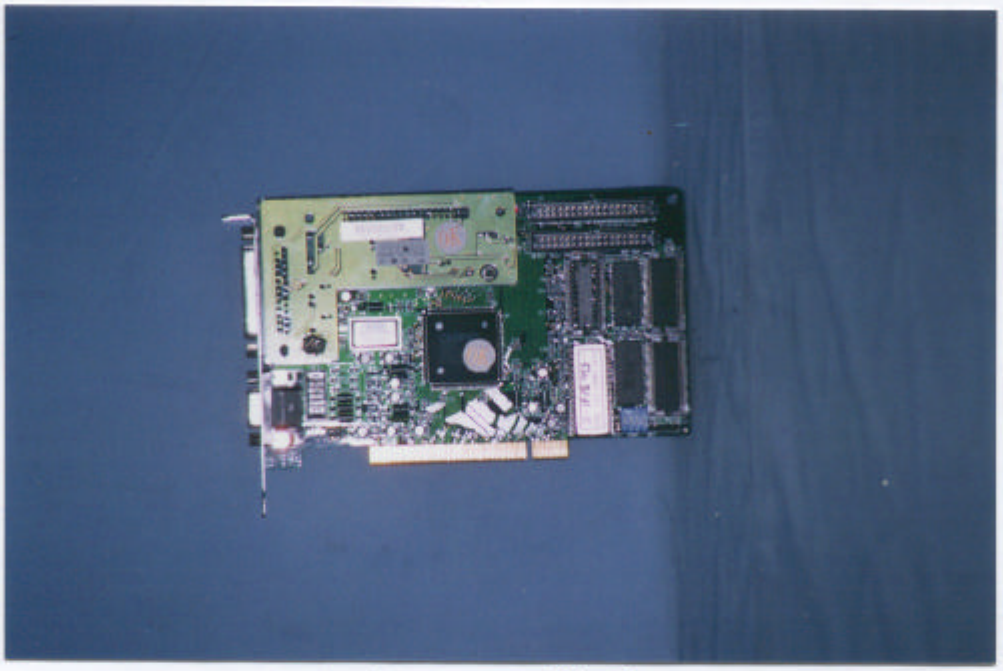
PHOTOS OF EUT



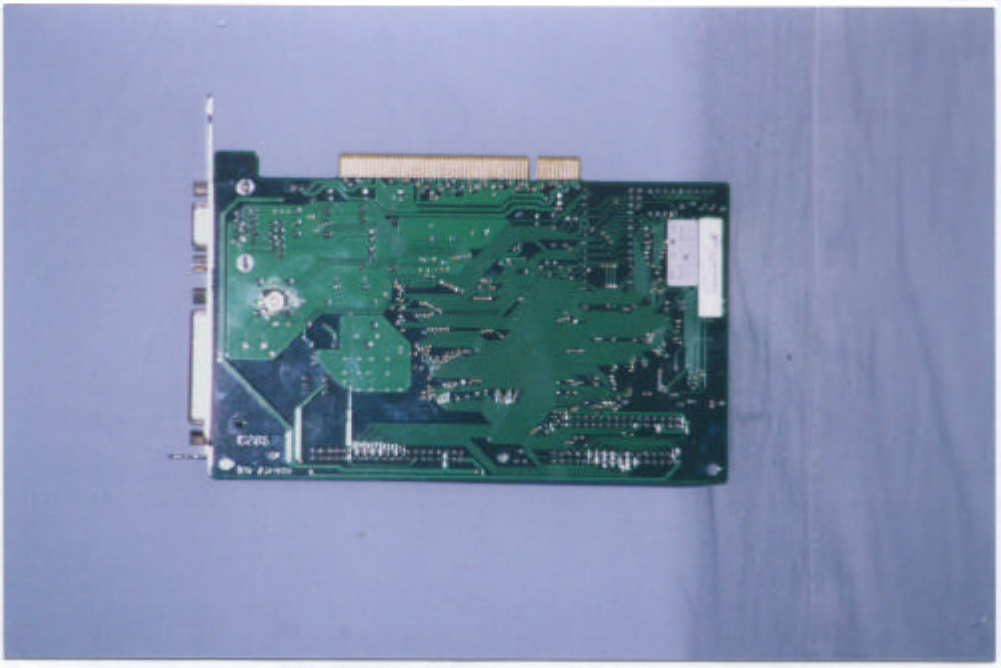
EUT Front View

EUT Rear View

PHOTOS OF EUT



VGA Card Component Side View



VGA Card Solder Side View

PHOTOS OF EUT

Data Cable Full View