



FCC TEST REPORT

REPORT NO.: F90020208

MODEL NO.: N0706

RECEIVED: Feb. 02, 2001

TESTED: May 05, 2001

APPLICANT: NPG DISPLAY LTD. TAIWAN
BRANCH

ADDRESS: 2FL, NO. 8, TUN HWAN. RD., TAIPEI
HSIEN, 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: Color Monitor
BRAND NAME: NEC
MODEL NO: N0706
TEST ITEM: ENGINEERING SAMPLE
APPLICANT: NPG DISPLAY LTD. TAIWAN BRANCH
STANDARDS: FCC Part 15, Subpart B, Class B
CISPR 22: 1997, Class B
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility on May 5, 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.

TESTED BY : Jone Lin , DATE: 5/8/2001
(Jone Lin)

CHECKED BY : Kathy Tseng , DATE: 5/8/2001
(Kathy Tseng)

APPROVED BY : Paul Yang , DATE: 5/8/2001
(Paul Yang, 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 B, CISPR 22: 1997, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -12.37 dB at 19.969 MHz
	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -2.1 dB at 84.47 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

PRODUCT	Color Monitor
MODEL NO.	N0706
POWER SUPPLY	Switching Power Cord: Nonshielded, 3 pin, AC (1.8m)
DATA CABLE	Shielded 1.5m

NOTE: The EUT is a 17" COLOR MONITOR with resolution up to 1600 x 1200.

There is a ferrite core on the video cable outside the monitor.

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

3.2 DESCRIPTION OF TEST MODES

The EUT was pre-tested under the following resolution & horizontal synchronization speed mode:

- ✍ 1600x1200 mode (93 kHz)
- ✍ 1280x1024 mode (91 kHz)
- ✍ 640x480 mode (31.5 kHz)

The worst emission levels were found under 1600x1200 (93 kHz) and therefore the test data of only this mode is recorded.



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	PERSONAL COMPUTER	NTI	PI I-450T	P201141	FCC DoC APPROVED
2	PRINTER	HP	2225C+	2949S63865	DSI6XU2225
3	MODEM	ACEEX	1414	980020531	IFAXDM1414
4	PS/2 KEYBOARD	FORWARD	FDA-104GA	FDKB8110120	F4ZDA-104G
5	MOUSE	LOGITECH	M-S43	LZE00703197	DZL211106
6	COLOR VGA CARD	Gordia	DSV3365V2	E860023321	LUT-DSV3365

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
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	1.5 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
5	1.8 m foil shielded wire, terminated with PS2 connector via drain wire, w/o core.
6	N/A

NOTE: All power cords of the above support units are non shielded (1.8m).



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.

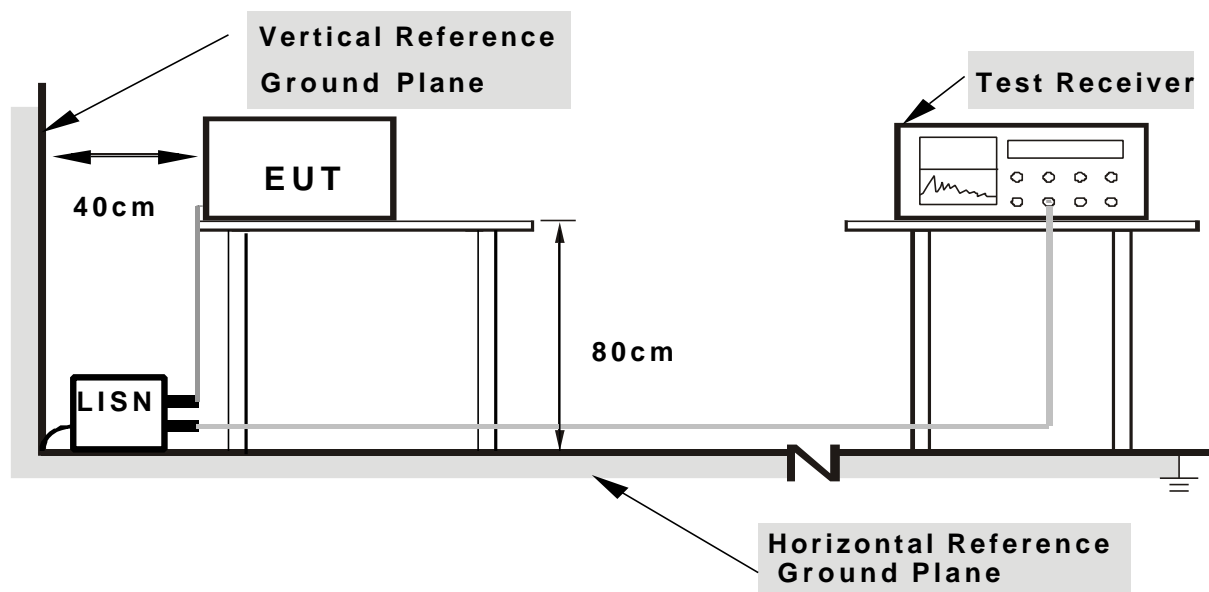
4.1.3 TEST PROCEDURE

- 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 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

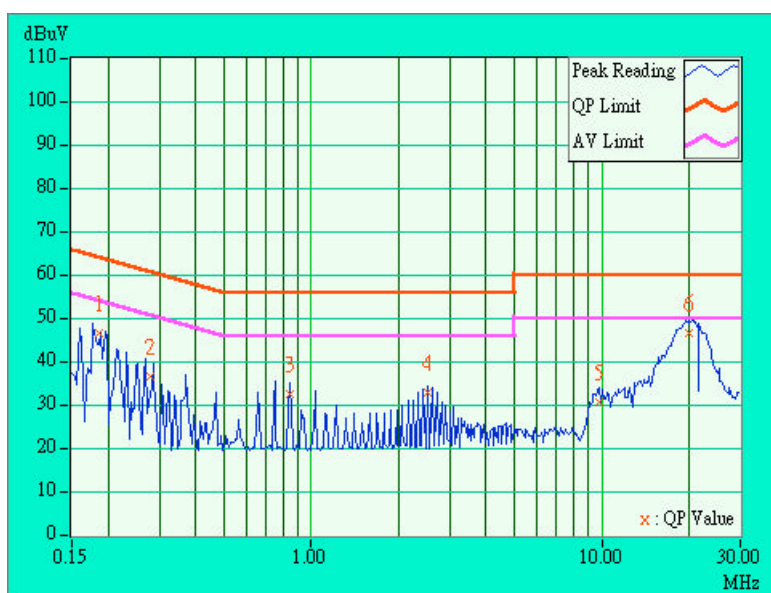
- a. Turn on the power of all equipment.
- b. PC runs a test program to enable all functions.
- c. PC reads and writes messages from FDD and HDD.
- d. PC sends "H" messages to color monitor (EUT) and then monitor displays "H" patterns on screen.
- e. PC sends "H" messages to modem.
- f. PC sends "H"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

4.1.7 TEST RESULTS

EUT	Color Monitor	MODEL	N0706
MODE	1600x1200 (93 kHz)	6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1005 hPa	TESTED BY: Jone Lin	

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.187	0.19	46.68	-	46.87	-	64.18	54.18	-17.32	-
2	0.279	0.20	36.62	-	36.82	-	60.85	50.85	-24.03	-
3	0.842	0.20	32.64	-	32.84	-	56.00	46.00	-23.16	-
4	2.530	0.25	33.10	-	33.35	-	56.00	46.00	-22.65	-
5	9.749	0.69	30.89	-	31.58	-	60.00	50.00	-28.42	-
6	19.969	1.10	46.53	-	47.63	-	60.00	50.00	-12.37	-

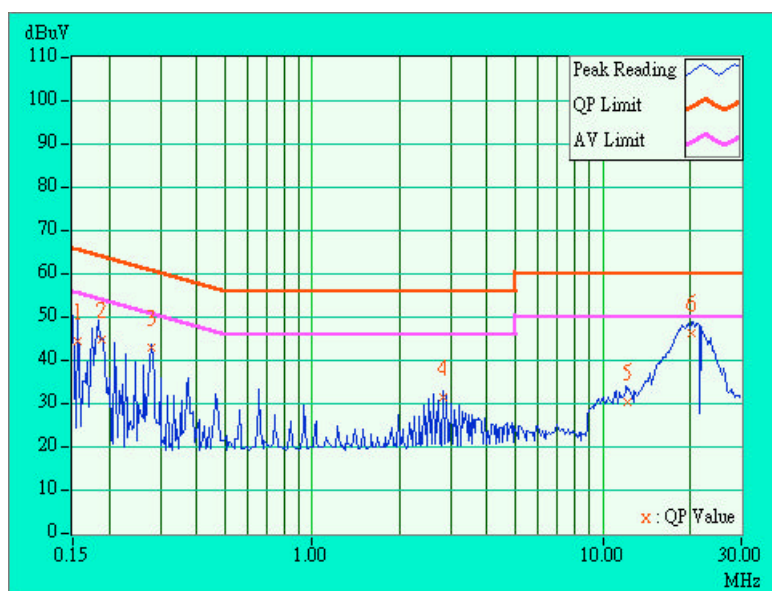
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Color Monitor	MODEL	N0706
MODE	1600x1200 (93 kHz)	6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1005 hPa	TESTED BY: Jone Lin	

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.156	0.16	44.39	-	44.55	-	65.67	55.67	-21.13	-
2	0.189	0.19	44.65	-	44.84	-	64.07	54.07	-19.23	-
3	0.279	0.20	42.99	-	43.19	-	60.85	50.85	-17.66	-
4	2.811	0.28	31.43	-	31.71	-	56.00	46.00	-24.29	-
5	12.095	0.73	30.50	-	31.23	-	60.00	50.00	-28.77	-
6	20.153	1.01	46.32	-	47.33	-	60.00	50.00	-12.67	-

- 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	8590L	3544A01042	April 16, 2002
HP Preamplifier	8447D	2944A08313	Sept. 25, 2001
* HP Preamplifier	8449B	3008A01201	Dec. 13, 2001
* ROHDE & SCHWARZ TEST RECEIVER	ESVS 30	841977/008	Oct. 11, 2001
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	CBL6111A	1647	July 3, 2001
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 9, 2001
* EMCO Turn Table	1016	1722	NA
* EMCO Tower	1051	1825	NA
* Software	AS61D	NA	NA
* ANRITSU RF Switches	MP59B	M28342	July 3, 2001
* TIMES RF cable	LMR-600	CABLE-ST4-01	July 3, 2001
Open Field Test Site	Site 4	ADT-R04	June 9, 2001
VCCI Site Registration No.	Site 4	R-1038	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 equipment are used for the final measurement.

4.2.3 TEST PROCEDURE

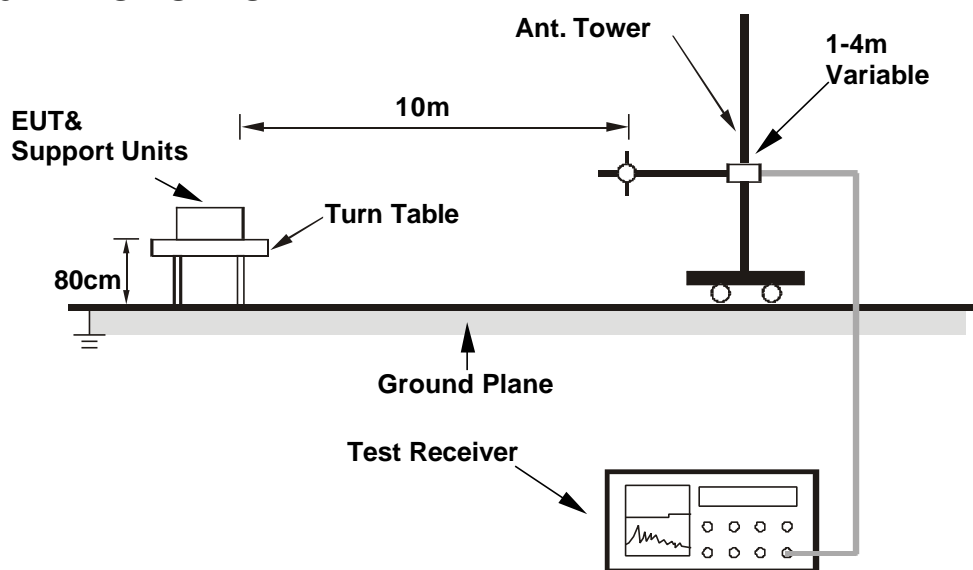
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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

EUT	Color Monitor	MODEL	N0706
MODE	1600x1200 (93 kHz)	FREQUENCY RANGE	30-2000 MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz Peak, 1MHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1005 hPa	TESTED BY: Jone Lin	

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	50.95	21.0 QP	30.00	-9.00	4.00H	217	11.52	7.90	1.57	0.00	-9.48
2	64.33	22.3 QP	30.00	-7.70	4.00H	122	15.33	5.37	1.60	0.00	-6.97
3	72.08	20.7 QP	30.00	-9.30	4.00H	309	13.24	5.86	1.60	0.00	-7.46
4	84.45	23.8 QP	30.00	-6.20	4.00H	132	14.10	8.13	1.56	0.00	-9.70
5	95.97	21.1 QP	30.00	-8.90	4.00H	149	9.86	9.61	1.62	0.00	-11.24
6	118.24	22.3 QP	30.00	-7.70	4.00H	261	9.36	11.07	1.87	0.00	-12.94
7	152.05	25.9 QP	30.00	-4.10	4.00H	194	13.43	10.48	1.98	0.00	-12.47
8	168.74	26.1 QP	30.00	-3.90	4.00H	158	14.95	9.14	2.01	0.00	-11.16
9	185.59	22.3 QP	30.00	-7.70	4.00H	185	11.69	8.53	2.08	0.00	-10.62
10	202.82	23.2 QP	30.00	-6.80	4.00H	50	12.57	8.52	2.10	0.00	-10.63
11	219.80	22.0 QP	30.00	-8.00	4.00H	233	10.16	9.71	2.13	0.00	-11.85
12	270.60	29.2 QP	37.00	-7.80	4.00H	145	14.66	12.30	2.24	0.00	-14.54
13	287.40	29.1 QP	37.00	-7.90	4.00H	163	14.16	12.57	2.37	0.00	-14.94
14	354.80	32.1 QP	37.00	-4.90	4.00H	152	15.13	14.23	2.74	0.00	-16.97
15	438.58	34.6 QP	37.00	-2.40	3.41H	41	15.50	16.58	2.57	0.00	-19.15
16	472.31	32.6 QP	37.00	-4.40	1.52H	31	12.80	17.16	2.67	0.00	-19.83
17	506.00	31.8 QP	37.00	-5.20	2.04H	62	11.04	17.86	2.89	0.00	-20.76
18	645.26	29.8 QP	37.00	-7.20	2.64H	266	6.76	20.18	2.86	0.00	-23.05

- 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.



EUT	Color Monitor	MODEL	N0706
MODE	1600x1200 (93 kHz)	FREQUENCY RANGE	30-2000 MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz Peak, 1MHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1005 hPa	TESTED BY: Jone Lin	

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	33.78	26.1 QP	30.00	-3.90	1.00V	2	8.86	15.65	1.59	0.00	-17.24
2	39.50	24.6 QP	30.00	-5.40	1.00V	213	9.08	13.90	1.61	0.00	-15.50
3	50.66	25.6 QP	30.00	-4.40	1.33V	358	16.12	7.90	1.57	0.00	-9.48
4	63.29	26.7 QP	30.00	-3.30	1.64V	1	19.73	5.37	1.60	0.00	-6.97
5	67.64	25.6 QP	30.00	-4.40	1.50V	271	18.44	5.55	1.61	0.00	-7.16
6	84.47	27.9 QP	30.00	-2.10	1.36V	45	18.20	8.13	1.56	0.00	-9.71
7	109.26	25.8 QP	30.00	-4.20	1.00V	24	13.33	10.68	1.79	0.00	-12.47
8	118.25	26.6 QP	30.00	-3.40	1.00V	247	13.66	11.07	1.87	0.00	-12.94
9	135.15	20.8 QP	30.00	-9.20	1.00V	179	7.25	11.57	1.98	0.00	-13.55
10	152.06	26.4 QP	30.00	-3.60	1.00V	221	13.93	10.48	1.98	0.00	-12.47
11	168.72	25.9 QP	30.00	-4.10	1.00V	103	14.70	9.14	2.01	0.00	-11.16
12	185.86	22.7 QP	30.00	-7.30	1.00V	181	12.09	8.53	2.08	0.00	-10.62
13	202.82	26.0 QP	30.00	-4.00	1.00V	71	15.37	8.52	2.10	0.00	-10.63
14	216.20	22.9 QP	30.00	-7.10	1.00V	168	11.23	9.54	2.13	0.00	-11.68
15	248.38	26.9 QP	37.00	-10.10	1.00V	69	12.97	11.75	2.19	0.00	-13.93
16	287.75	28.1 QP	37.00	-8.90	1.00V	84	13.16	12.57	2.37	0.00	-14.94
17	354.80	32.2 QP	37.00	-4.80	1.00V	276	15.23	14.23	2.74	0.00	-16.97
18	372.30	30.5 QP	37.00	-6.50	1.55V	79	12.86	14.88	2.76	0.00	-17.65
19	438.55	31.6 QP	37.00	-5.40	1.89V	184	12.50	16.58	2.57	0.00	-19.14
20	472.35	30.0 QP	37.00	-7.00	2.97V	130	10.20	17.16	2.67	0.00	-19.82
21	506.02	30.6 QP	37.00	-6.40	3.01V	37	9.85	17.86	2.89	0.00	-20.76

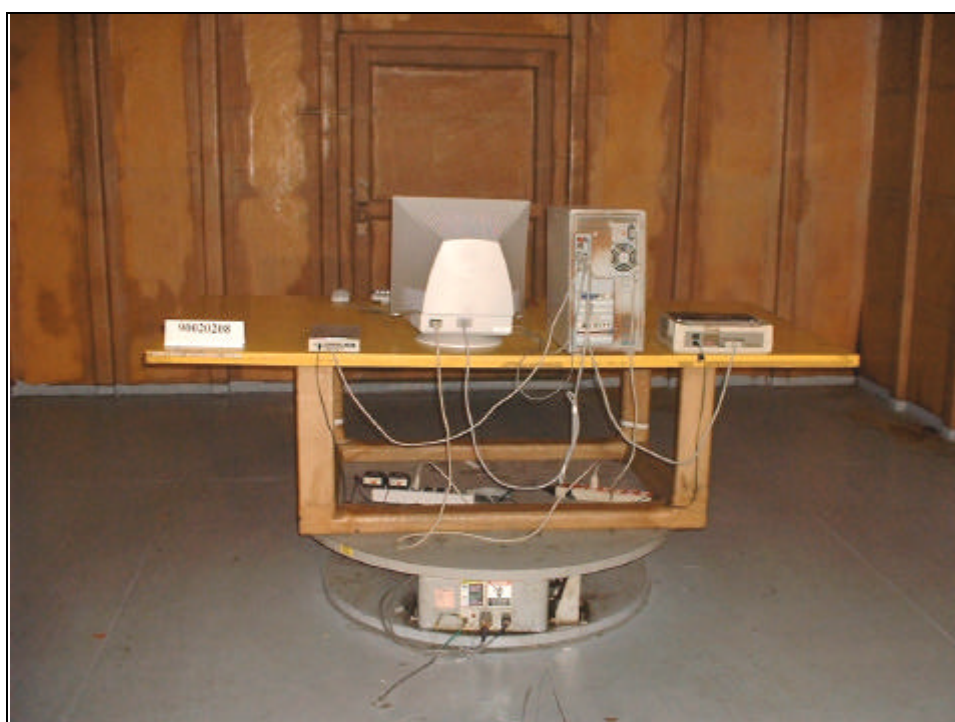
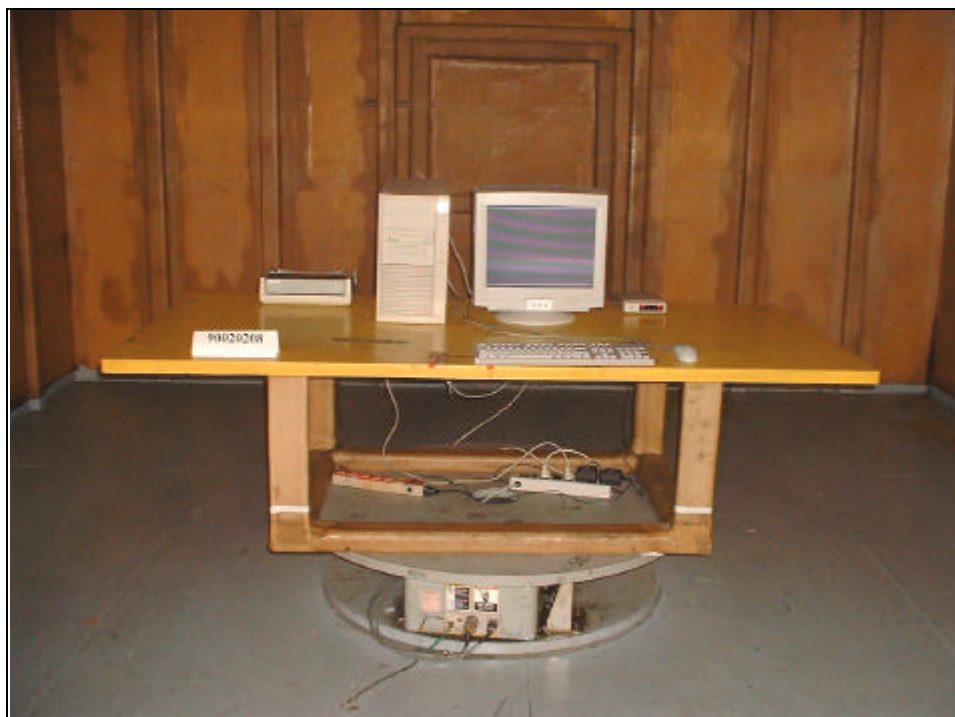
- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB/m) = Pre-Amplifier Factor (dB) - Antenna Factor (dB/m) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 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



RADIATED EMISSION TEST





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:

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

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