



EMC

TEST REPORT

REPORT NO. : F88061606
MODEL NO. : 772X
DATE OF TEST : Jun. 21, 1999

PREPARED FOR: PROVIEW ELECTRONICS (TAIWAN) CO. LTD.

ADDRESS : 6F, NO. 1, PAU-SHENG RD., YUNG-HO CITY,
TAIPEI HSIEN, TAIWAN, R.O.C.

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION



Accredited Laboratory

11F, NO.1, SEC.4, NAN-KING EAST RD.,
TAIPEI, TAIWAN, R.O.C.

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**1. CERTIFICATION**

Issue Date: July 9, 1999

Product : COLOR MONITOR
Trade Name : PROVIEW, EMC, MIRAGE
Model No. : 772X
Applicant : PROVIEW ELECTRONICS (TAIWAN) CO. LTD.
Standard : FCC Part 15, Subpart B, Class B
CISPR 22: 1993+A1: 1995+A2: 1996, Class B
ANSI C63.4-1992

We hereby certify that one sample of the designation has been tested in our facility on Jun. 21, 1999. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in this report is in compliance with the Class B limits of conducted and radiated emission of applicable standards.

TESTED BY : Alan Chang , DATE: 7/9/99
(Alan Chang)

CHECKED BY : Ariel Hsieh , DATE: 7/9/99
(Ariel Hsieh)

APPROVED BY : Mike Su , DATE: 7/9/99
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION**NVLAQ®**

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	772X
Power Supply Type	:	Switching
Power Cord of monitor	:	Nonshielded (1.8 m)
Data Cable of monitor	:	Shielded (1.5 m)

Note: The EUT is a 17" COLOR MONITOR with an internal microphone and external speakers, and its resolution is up to 1600 x 1200.

The "X" in model: 772X could be defined as A~Z, 1~9 or blank according to different customers' requirement.

The EUT has three brand names as the following:

- PROVIEW
- EMC
- MIRAGE

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.



2.2 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 are used to form representative test configuration during the tests.

No.	Product	Brand	Model No.	FCC ID	I/O Cable
1.	PERSONAL COMPUTER	NTI	PII-233	FCC DoC Approved	Nonshielded Power (1.8m)
2.	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded Signal (1.4 m)
3.	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.2m) Nonshielded Power (1.2m)
4.	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.2m) Nonshielded Power (1.2m)
5.	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded Signal (1.5m)
6.	SPEAKER	AUDIO-TECHNICA	AT-SP25	NA	Nonshielded Signal (1.7m) Nonshielded Power (1.8m)
7.	VGA CARD	CARDEX	CD-GX2A44T	ICUVGA-GW710	NA
8.	SOUND CARD	YA HSIN	AUDIO 1869	FCC DoC Approved	NA

Note: 1. An audio cable (1.8m) was connected between the mic. port of EUT and sound card of PC.

2. An audio cable (1.3m) was connected between the ext. speaker (R) of EUT to sound card of PC.

3. Two audio cables (0.2m) was connected between EUT and its ext. speakers.

4. A power cable (0.2m) was connected between EUT and its ext. speaker (R).

2.3 TEST METHODOLOGY AND CONFIGURATION

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:1992. Radiated testing was performed at an antenna to EUT distance of 3/10 m on an open area test site.

Please refer to the photos of test configuration in Item 5.



3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

CONDUCTED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESH3	893495/006	July 15, 1999
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 16, 1999
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 14, 1999
EMCO-L.I.S.N.	3825/2	9204-1964	July 14, 1999
Shielded Room	Site 2	ADT-C02	NA

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per 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.

RADIATED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8594A	3144A00308	Sept. 3, 1999
HP Preamplifier	8447D	2944A08119	July 20, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
ROHDE & SCHWARZ TEST RECEIVER	ESVP	893496/030	July 15, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE Bilog Antenna	CBL6112A	2329	Sept. 19, 1999
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 5, 2000
EMCO Turn Table	1060	1195	NA
EMCO Tower	1051	1163	NA
Open Field Test Site	Site 2	ADT-R02	Sept. 18, 1999

Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per 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.



3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION

LIMIT OF RADIATED EMISSION OF CISPR 22

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

* Detector Function: Quasi-Peak

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.

LIMIT OF CONDUCTED EMISSION OF CISPR 22

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

- Note: (1) The lower limit shall apply at the transition frequencies.
 (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz
 (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. TEST RESULTS (EMISSION)

4.1 RADIO DISTURBANCE

Frequency Range	:	0.15 - 30 MHz (Conducted Emission) 30 - 2000 MHz (Radiated Emission)
Input Voltage	:	120 Vac, 60 Hz
Temperature	:	26 °C
Humidity	:	60 %
Atmospheric Pressure	:	994 mbar

TEST RESULT	Remarks
	Minimum passing margin of conducted emission: -14.1 dB at 11.221 MHz
	Minimum passing margin of radiated emission: -3.2 dB at 40.63 MHz

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

- ♦ 1600 x 1200 (75 kHz)
- ♦ 1280 x 1024 (64 kHz)
- ♦ 1024 x 768 (69 kHz)
- ♦ 640 x 480 (31.5 kHz)

The worst emission levels were found under 1600 x 1200 (75 kHz) and therefore test data of this mode is recorded.

4.2 EUT OPERATION CONDITION

1. Turn on the power of all equipment.
2. PC runs a test program to enable all functions.
3. PC reads and writes messages from FDD and HDD.
4. PC sends "H" messages to monitor (EUT) and monitor displays "H" patterns on screen.
5. PC sends "H" messages to modem.
6. PC sends "H" messages to printer, and the printer prints them on paper.
7. PC sends audio messages to speakers.
8. Repeat steps 3-8.

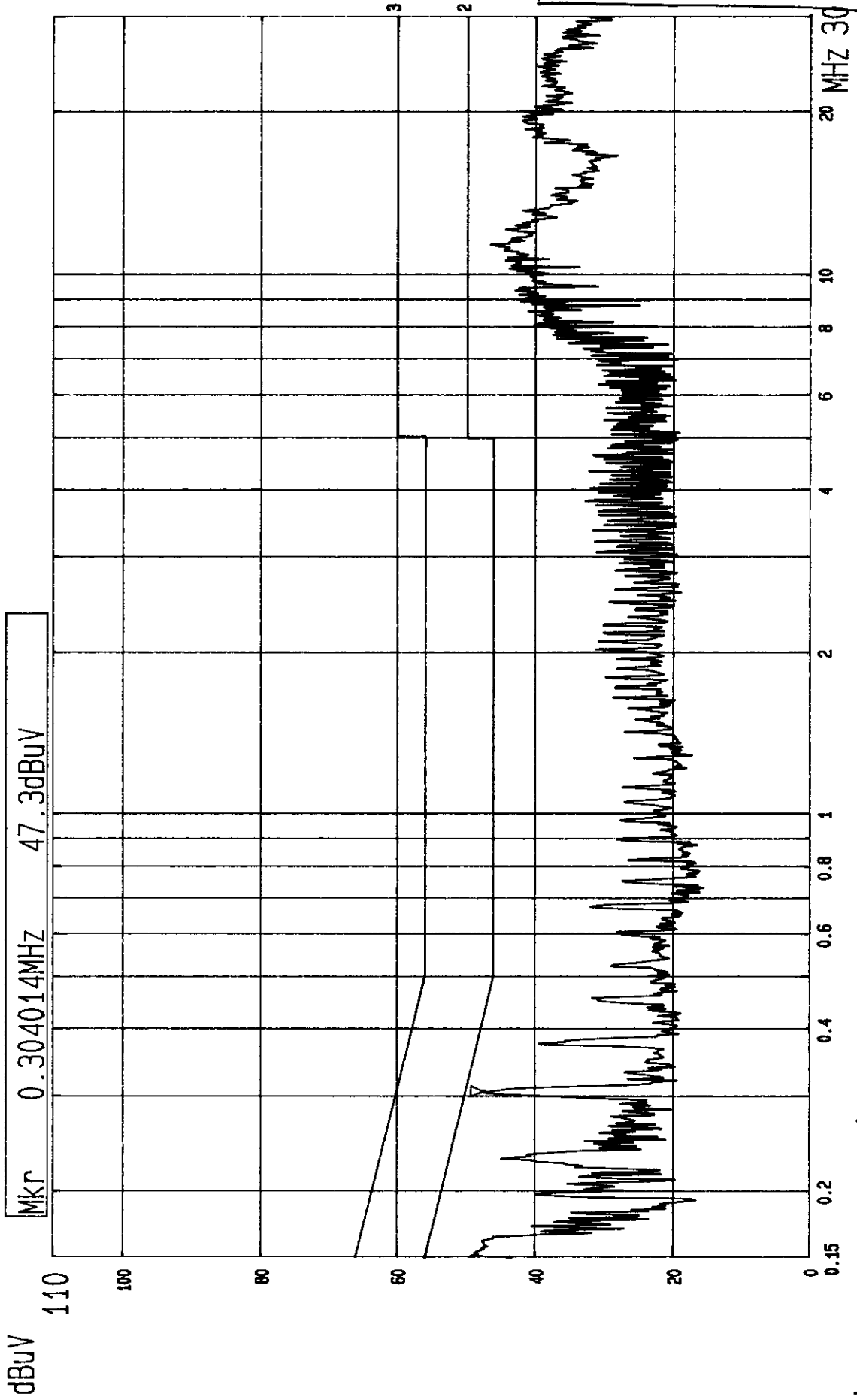


4.3 TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: 772XMODE: 1600x1200 (75 kHz)6 dB Bandwidth: 10 kHzPHASE: LINE (L)

Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.151	0.2	50.3	-	50.5	-	65.9	55.9	-15.4	-
0.298	0.2	45.6	-	45.8	-	60.3	50.3	-14.5	-
0.732	0.2	28.7	-	28.9	-	56.0	46.0	-27.1	-
3.875	0.3	31.5	-	31.8	-	56.0	46.0	-24.2	-
11.221	0.8	44.8	-	45.6	-	60.0	50.0	-14.4	-
19.215	1.2	40.1	-	41.3	-	60.0	50.0	-18.7	-

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



Date 21.JUN.'99 Time 21:55:42
 CISPR 22 CLASS B CONDUCTION TEST
 MODEL: 772X 1600X1200 75KHz/60Hz

(PEAK VALUE)
 ADT CORP.
 LISN: L

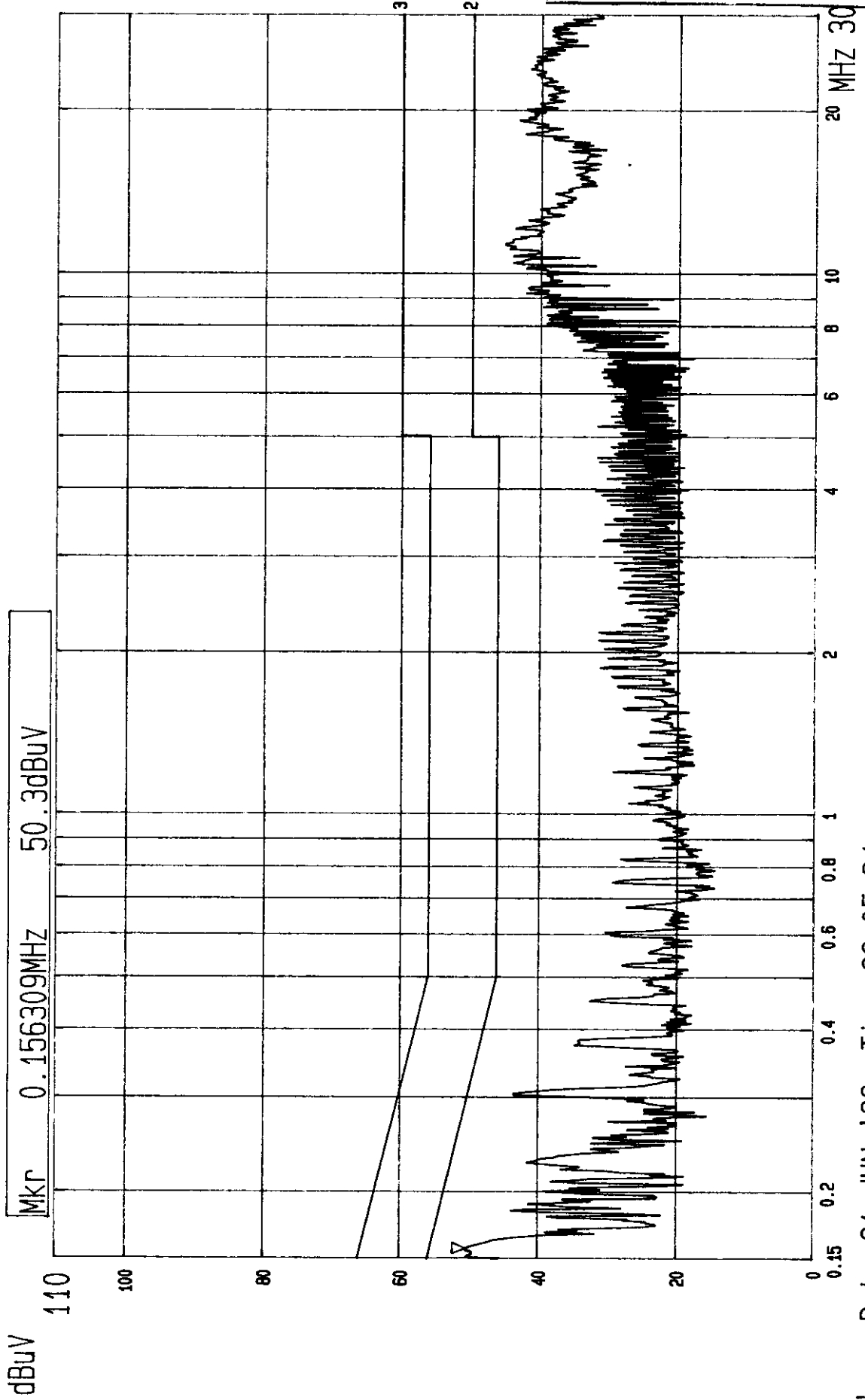


TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: 772XMODE: 1600x1200 (75 kHz)6 dB Bandwidth: 10 kHzPHASE: NEUTRAL (N)

Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.151	0.2	51.0	-	51.2	-	65.9	55.9	-14.7	-
0.298	0.2	42.5	-	42.7	-	60.3	50.3	-17.6	-
0.732	0.2	31.2	-	31.4	-	56.0	46.0	-24.6	-
3.875	0.3	30.4	-	30.7	-	56.0	46.0	-25.3	-
11.221	0.8	45.1	-	45.9	-	60.0	50.0	-14.1	-
19.215	1.1	40.5	-	41.6	-	60.0	50.0	-18.4	-

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



ADT CORP.
LISN: N

(PEAK VALUE)

---- Date 21.JUN.'99 Time 22:05:34
CISPR 22 CLASS B CONDUCTION TEST
MODEL: 772X 1600X1200 75KHz/60Hz



4.4 TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITORMODEL: 772XMODE: 1600x1200 (75 kHz)ANT. POLARITY: Horizontal

DETECTOR FUNCTION AND BANDWIDTH:

Quasi peak, 120 kHz (30-1000 MHz)Peak, 1 MHz (1000 MHz-2000 MHz)FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
45.10	14.7	10.8	25.5	30.0	-4.5	400	121
87.11	9.5	11.1	20.6	30.0	-9.4	400	232
109.65	13.1	7.7	20.8	30.0	-9.2	400	151
118.50	14.2	6.1	20.3	30.0	-9.7	400	258
177.53	11.5	6.3	17.8	30.0	-12.2	400	104
193.45	11.8	6.5	18.3	30.0	-11.7	400	278
209.85	12.6	3.9	16.5	30.0	-13.5	400	73

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



TEST DATA OF RADIATED EMISSION

EUT: COLOR MONITORMODEL: 772XMODE: 1600x1200 (75 kHz)ANT. POLARITY: Vertical

DETECTOR FUNCTION AND BANDWIDTH:

Quasi peak, 120 kHz (30-1000 MHz)Peak, 1 MHz (1000 MHz-2000 MHz)FREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 MFREQUENCY RANGE: 1000-2000 MHzMEASURED DISTANCE: 3 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
40.63	15.7	11.1	26.8	30.0	-3.2	100	17
48.49	7.8	18.6	26.4	30.0	-3.6	145	2
61.18	6.6	14.3	20.9	30.0	-9.1	217	58
77.66	7.3	15.6	22.9	30.0	-7.1	175	253
86.89	9.0	16.3	25.3	30.0	-4.7	100	69
118.86	14.2	10.6	24.8	30.0	-5.2	100	193
126.26	14.3	9.3	23.6	30.0	-6.4	100	283
133.31	14.2	8.8	23.0	30.0	-7.0	100	206
193.66	12.2	11.3	23.5	30.0	-6.5	100	183

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB)
+ Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



6. APPENDIX - INFORMATION OF THE TESTING LABORATORY

Information of the testing laboratory

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

- | | |
|---------------|--------------------------------------|
| ● USA | FCC, UL, NVLAP |
| ● Germany | TUV Rheinland
TUV Product Service |
| ● Japan | VCCI |
| ● New Zealand | RFS |
| ● Norway | NEMKO, DNV |
| ● U.K. | INCHCAPE, SGS |
| ● R.O.C. | BSMI |

Enclosed please find some certificates of our laboratory obtained from approval agencies. If you have any comments, please feel free to contact us with the following:

Lin Kou EMC Lab.:

Tel: 886-2-26032180

Fax: 886-2-26022943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab.:

Tel: 886-2-26093195

Fax: 886-2-26093184

Design Center:

Tel: 886-2-26093195

Fax: 886-2-26093184

E-mail: service@mail.adt.com.tw

<http://www.adt.com.tw>

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1595 (ext-218)
Facsimile: 301-344-3080

October 21, 1998

REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris W. Lai

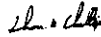
Re: Measurement facility located at above address, Site No. 1
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL, PN

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1595 (ext-218)
Facsimile: 301-344-3080

September 15, 1998

REPLY REFER TO
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1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King E. Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris Lai

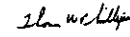
Re: Measurement facility located at Lin Kou, Sites 2 & 3
(3 & 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has also been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list is available on the Internet at the FCC Website www.fcc.gov under Electronic Filing.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1595 (ext-218)
Facsimile: 301-344-3080

April 17, 1998

REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King E. Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris W. Lai

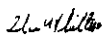
Re: Measurement facility located at above address
Site No. 4 (3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

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Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL, PN

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1595 (ext-218)
Facsimile: 301-344-3080

October 21, 1998

REPLY REFER TO
31040/SIT
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Rd.
Taipei, Taiwan, R.O.C.

Attention: Harris W. Lai

Re: Measurement facility located at above address, Site No. 5
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL, PN

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1298 (toll-free)
Facsimile: 301-344-2080

February 25, 1998

31040/ST
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4, Nan-King E. Rd.
Taipei, Taiwan

Attention: Hsin W. Lai

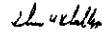
Re: Measurement facility located at above address. Site No. 8
(3 and 10 meters)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C83.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is updated monthly and is available on the Laboratory's Public Access Link (PAL) at 301-725-1072, and also on the Internet at the FCC Website www.fcc.gov/et/infodatabase/testsite/.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1298 (toll-free)
Facsimile: 301-344-2080

July 18, 1998

31040/ST
1300F2

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Rd.
Taipei, Taiwan, R.O.C.

Attention: Hsin W. Lai

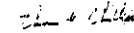
Re: Measurement facility located at Hsin Chu (3 & 10 meter site)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C83.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has also been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list is available on the Internet at the FCC Website www.fcc.gov/et/infodatabase/testsite/.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046

December 22, 1998

Registration Number: 92753

Advance Data Technology Corporation
12F, No. 1, Sec. 4
Nan-King East Road
Taipei
Taiwan, R.O.C.

Attention: Hsin W. Lai

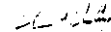
Re: Measurement facility located at Hsin-Chu, Site B
3 & 10 meter site

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

If requested, the above mentioned facility has been added to our list of those who perform these measurement services for the public on a fee basis. An up-to-date list of such public test facilities is available on the Internet at the FCC Website at WWW.FCC.GOV/Electronic Filing, OET Equipment Authorization Electronic Filing.

Sincerely,



Thomas W. Phillips
Electronics Engineer



CERTIFICATE

Facility: NO. 1 SITE

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

Address : No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : R-236

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
Information Technology Equipment



CERTIFICATE

Facility: NO. 2 SITE

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

Address : No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : R-237

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
Information Technology Equipment



CERTIFICATE

Facility: NO. 2 SITE

(Conducted Interference Measurement)

Company : Advance Data Technology Corp.

Address : No.47, CHIA PAU TSUEN, LIN KOU HSIANG,
TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : C-240

Date of Registration : July 1, 1998

This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference
Information Technology Equipment



CERTIFICATE

Facility: No.3 Site

(Radiation 3 and 10 meter site)

Company : Advance Data Technology Corp.

Address : No.47 CHIA PAU TSUEN, LIN KOU HSIANG, TAIPEI
HSIEN, TAIWAN

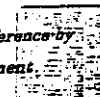
*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures*

Registration No. : R-269

Date of Registration : January 1, 1999

This Certificate is valid until March 31, 2002

Voluntary Control Council for Interference
Information Technology Equipment





CERTIFICATE

Facility: No.3 Site
 (Conducted Interference Measurement)
 Company : Advance Data Technology Corp.
 Address : No.41 CHIA PAU TSUEN, LIN KOU HSIANG, TAIPEI
 HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures*

Registration No. : C-274
 Date of Registration : January 1, 1999
 This Certificate is valid until March 31, 2002

Voluntary Control Council for Interference by
 Information Technology Equipment



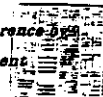
CERTIFICATE

Facility: No.4 Site
 (Radiation 3 and 10 meter site)
 Company : ADVANCE DATA TECHNOLOGY
 CORP.
 Address : No.47, CHIA PAU TSUEN, LIN KOU
 HSIANG, TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures, Article 8.*

Registration No. : R-489
 Date of Registration : December 20, 1996
 This Certificate is valid until December 31, 1999

Voluntary Control Council for Interference by
 Information Technology Equipment



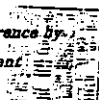
CERTIFICATE

Facility: No.5 Site
 (Radiation 3 and 10 meter site)
 Company : ADVANCE DATA TECHNOLOGY
 CORP.
 Address : No.47, CHIA PAU TSUEN, LIN KOU
 HSIANG, TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures, Article 8.*

Registration No. : R-490
 Date of Registration : December 20, 1996
 This Certificate is valid until December 31, 1999

Voluntary Control Council for Interference by
 Information Technology Equipment



CERTIFICATE

Facility: ADVANCE DATA TECHNOLOGY
 CORPORATION
 (Conducted Interference Measurement)
 Company : ADVANCE DATA TECHNOLOGY
 CORPORATION
 Address : No.47, CHIA PAU TSUEN, LIN KOU
 HSIANG, TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures, Article 8.*

Registration No. : C-505
 Date of Registration : December 20, 1996
 This Certificate is valid until December 31, 1999

Voluntary Control Council for Interference by
 Information Technology Equipment





CERTIFICATE

Facility: Advance Data Technology Corp Site 6
(Radiation 3 and 10 meter site)
Company : Advance Data Technology Corp.
Address : No.47, CHIA PAU TSUEN, LIN KOU HSIAANG,
TAIPEI HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures.*

Registration No. : R-728
Date of Registration : May 19, 1998
This Certificate is valid until June 30, 2001

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: Advance Data Technology Corp Site A
(Radiation 3 and 10 meter site)
Company : Advance Data Technology Corp.
Address : NO. 81-1, LU LIAO KENG, 9 LONG, WU LIANG TSUEN,
CHIUNG LIN HSIANG, HSIEN CHU HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures*

Registration No. : R-782
Date of Registration : September 29, 1998
This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference by
Information Technology Equipment



CERTIFICATE

Facility: Advance Data Technology Corp Shielded Room A
(Conducted Interference Measurement)
Company : Advance Data Technology Corp.
Address : NO. 81-1, LU LIAO KENG, 9 LONG, WU LIANG TSUEN,
CHIUNG LIN HSIANG, HSIEN CHU HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures*

Registration No. : C-817
Date of Registration : September 29, 1998
This Certificate is valid until September 30, 2001

Voluntary Control Council for Interference by
Information Technology Equipment



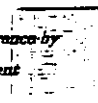
CERTIFICATE

Facility: ADVANCE DATA TECHNOLOGY CORPORATION OPEN SITE B
(Radiation 3 and 10 meter site)
Company : ADVANCE DATA TECHNOLOGY CORPORATION
Address : NO. 81-1, LU LIAO KENG, 9 LONG, WU LIANG TSUEN,
CHIUNG LIN HSIANG, HSIEN CHU HSIEN, TAIWAN

*This is to certify that the following measuring facility
has been registered in accordance with the Regulations
for Voluntary Control Measures*

Registration No. : R-847
Date of Registration : March 1, 1999
This Certificate is valid until March 31, 2002

Voluntary Control Council for Interference by
Information Technology Equipment





Worldwide Testing and Certification

ELA 4

EMC Laboratory
Authorization

Aut. No.: ELA 112

EMC Laboratory: ADT Advance Data Technology Corporation
No. 47, 14 Ling, Chia Pan Tsuen,
Lia Kuei Hsiang, Taipei Hsien,
Taiwan R.O.C.

Scope of Authorization: All CENELEC standards (ENs) for EMC that are listed on the accompanying page, and, all of the corresponding CISPR, IEC, and ISO EMC standards that are listed on the accompanying page.

This Authorization Document confirms that the above mentioned EMC Laboratory has been validated against EN 45001 and found to be compliant. The laboratory also fulfills the conditions described in Nemko Document ELA 10. During Nemko's visit to the laboratory on 9. October 1996, an assessment was made of the relevant parts of your organisation - i.e. facilities, personnel qualifications, test equipment, and testing practices. It was found that the EMC Laboratory is capable of performing tests within the Scope of Authorization given on the accompanying page. Accordingly, Nemko will accept your test reports as a basis for attesting conformity to these EMC Standards for the products in question under either the European Union EMC Directive or the European Union Automotive EMC Directive (as applicable).

In case of applications for Product Certification(s) to be issued by Nemko, your EMC Laboratory's test reports will be accepted by Nemko if they are enclosed with the Application Form submitted by the manufacturer.

In order to maintain the Authorization, the information given in the enclosed ELA-INFOS (if any) must be carefully followed. Nemko is to be promptly notified about any changes in the situation at your EMC Laboratory which may affect the basis for this Authorization. The Authorization may at any time be withdrawn if the conditions are no longer considered to be fulfilled.

The Authorization is valid through February 28, 1999.

Oslo, 13 March 1998

For Nemko AS:

Kjell Bergh

Kjell Bergh, Head of EMC Section

Printed on: 17.03.98 10:00
File: ELA 112-112

Telephone: +47 22 70 00 00
Fax: +47 22 70 00 00



Worldwide Testing and Certification

ELA 4

EMC Laboratory Authorisation

Aut. No.: ELA 112.

(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

EN 50081-1, EN 50081-2	EN 50082-1, EN 50082-2	EN 55011, Gr. 1, CISPR 11
EN 55013, CISPR 13	EN 55014-1, CISPR 14-1	EN 55015, CISPR 15
EN 55022	EN 60555-2, IEC 555-2, EN 61000-3-2, IEC 61000-3-2	EN 60555-3, IEC 555-3, EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

EN 61000-4-2, IEC 61000-4-2, IEC 801-2	EN 61000-4-3, ENV 50148, ENV 50204, IEC 61000-4-3, IEC 801-3	EN 61000-4-4, IEC 61000-4-4, IEC 801-4
EN 61000-4-5, IEC 61000-4-5	EN 61000-4-6, ENV 50141, IEC 61000-4-6	EN 61000-4-8, IEC 61000-4-8
EN 61000-4-11, IEC 61000-4-11		

Oslo, 13 March 1998

Kjell Bergh

Kjell Bergh, Nemko EMC Services

Printed on: 17.03.98 10:00
File: ELA 112-112

Telephone: +47 22 70 00 00
Fax: +47 22 70 00 00

World-wide Testing and
Certification

ELA 4

EMC Laboratory
AuthorizationAut. No.: ELA 112-b
Hsin Chu EMC Laboratory

EMC Laboratory: ADT Advance Data Technology Corporation
Hsin Chu EMC Laboratory
No. 81-1, Lu Lin Keng, 9 Ling,
Wu Lung Tsuen, Chung Lin Hsiang,
Hsin Chu Hsien, Taiwan R.O.C.

Scope of Authorization: All CENELEC standards (ENs) for EMC that are listed on the accompanying page, and, all of the corresponding CISPR, IEC, and ISO EMC standards that are listed on the accompanying page.

This Authorization Document confirms that the above mentioned EMC Laboratory has been validated against EN 45001 and found to be compliant. The laboratory also fulfills the conditions described in Nemko Document ELA 10. Based on submitted material, an assessment has been made of the relevant parts of your organisation - i.e. facilities, personnel qualifications, test equipment, and testing practices. It was found that the EMC Laboratory is capable of performing tests within the Scope of Authorization given on the accompanying page. Accordingly, Nemko will accept your test reports as a basis for attesting conformity to these EMC Standards for the products in question under the European Union EMC Directive.

In case of applications for Product Certification(s) to be issued by Nemko, your EMC Laboratory's test reports will be accepted by Nemko if they are enclosed with the Application Form submitted by the manufacturer.

In order to maintain the Authorization, the information given in the enclosed ELA-INFOS (if any) must be carefully followed. Nemko is to be promptly notified about any changes in the situation at your EMC Laboratory which may affect the basis for this Authorization. The Authorization may at any time be withdrawn if the conditions are no longer considered to be fulfilled.

The Authorization is valid through February 28, 1999.

Oslo, 15 December 1998

For Nemko AS:

Kjell Bergh

Kjell Bergh, Head of EMC Section

Printed on: 17.03.98 10:00
File: ELA 112-112

Telephone: +47 22 70 00 00
Fax: +47 22 70 00 00

World-wide Testing and
Certification

ELA 4

EMC Laboratory Authorisation

Aut. No.: ELA 112-b
Hsin Chu EMC Laboratory

(Page 2 of 2)

SCOPE OF AUTHORIZATION

GENERIC & PRODUCT-FAMILY STANDARDS

EN 50081-1, EN 50081-2	EN 50082-1, EN 50082-2	EN 55011, Gr. 1, CISPR 11
EN 55014-1, CISPR 14-1 (except discontinuous noise)	EN 55014-2, CISPR 14-2	EN 55022, CISPR 22
EN 55024, CISPR 24	EN 60555-2, IEC 60555-2, EN 61000-3-2, IEC 61000-3-2	EN 60555-3, IEC 60555-3, EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS

EN 61000-4-2, IEC 61000-4-2, IEC 801-2	EN 61000-4-3, IEC 61000-4-3, ENV 50204	EN 61000-4-4, IEC 61000-4-4
EN 61000-4-5, IEC 61000-4-5	EN 61000-4-6, ENV 50141, IEC 61000-4-6	EN 61000-4-8, IEC 61000-4-8
EN 61000-4-11, IEC 61000-4-11		

Oslo, 15 December 1998

Kjell Bergh

Kjell Bergh, Nemko EMC Services

Printed on: 17.03.98 10:00
File: ELA 112-112

Telephone: +47 22 70 00 00
Fax: +47 22 70 00 00



 National Institute of Standards and Technology
 National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1996
 ISO 9002:1987
 Scope of Accreditation



 Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
NVLAP LAB CODE 200102-0

ADVANCE DATA TECHNOLOGY CORPORATION
 No. 47, 14 Ling, Chia Pau Tsuen,
 Lin Kou Hsueh
 Taipei Hsien
 TAIWAN
 Mr. Harris W. Lu
 Phone: 886-2-6022190 Fax: 886-2-6022943

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T31 AS/NZS 1548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999

 Director through

NVLAP 015-111-950

United States Department of Commerce
 National Institute of Standards and Technology

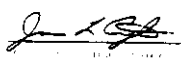


 Certificate of Accreditation

ADVANCE DATA TECHNOLOGY CORPORATION
 TAIPEI HSIEN
 TAIWAN

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002:1987 (ANSI Z39.1-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services listed on the Scope of Accreditation for

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
 FCC

December 31, 1999

 Director through

NVLAP Lab Code 200102-0



 National Institute of Standards and Technology
 National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1996
 ISO 9002:1987
 Scope of Accreditation



 Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
NVLAP LAB CODE 200376-0

ADVANCE DATA TECHNOLOGY CORPORATION HSIN CHU EMC LABORATORY
 No. 31-1, Lu Liao Kang, 9 Ling, Wu Lung
 Tamsui, Chung Lin Hsueh
 Hsin Chu Hsien
 TAIWAN
 Mr. Harris Lu
 Phone: 886-2-26032180 Fax: 886-2-26022943
 E-Mail: harris@emc.ladt.com.tw

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

Australian Standards referred to by clauses in ACA Technical Standards

12/T31 AS/NZS 1548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

March 31, 2000

 Director through

NVLAP 015-111-950

United States Department of Commerce
 National Institute of Standards and Technology



 Certificate of Accreditation

ADVANCE DATA TECHNOLOGY CORPORATION HSIN CHU EMC LABORATORY
 HSIN CHU HSIEN
 TAIWAN

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002:1987 (ANSI Z39.1-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services listed on the Scope of Accreditation for

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS
 FCC

March 31, 2000

 Director through

NVLAP Lab Code 200376-0



DET NORSKE VERITAS STATEMENT OF RECOGNITION

STATEMENT No. 413 - 99 - LAB12
The statement consists of 3 pages

This is to certify that the
EMC AND SAFETY LABORATORIES

under
ADT

The main office with legal identity
ADT Corporation, No. 47, 14 Ling, Chiapan Tsuen,
Lin Kou Hsiang, Taipei Hsien, Taiwan, R.O.C.

has been found to comply with the requirements of DNV towards subcontractors of EMC
and Safety testing services in connection with the EMC and Low Voltage Directives and in
the voluntary field.

The acceptance is based on a formal Quality Audit and follow-up according to relevant parts of
EN 45001 and ISO/IEC Guide 25, in accordance with the requirements of the DNV Laboratory
Quality Manual towards subcontractors.

Place and date
Havre, 23 February, 1999
for Det Norske Veritas AS
(Notified Body no. 573/434)

This Statement is valid until
23 February, 2000

Arvid Wæhlin
Arvid Wæhlin
Head of Section



A. L. Olsen
A. L. Olsen
Lead Auditor

DNV NORSE VERITAS AS
Postboks 25, 0403 Oslo, Norway
Telephone: +47 22 00 00 00
Fax: +47 22 00 00 00
Page 1 of 3



Statement No.: 413 - 99 - LAB12

Audit information

Initial audit:

- Date of Audit: 1996-11-18 and 1998-11-19
- Initial Audit Report: 1996-11-22
- Closing of Non-conformities: 99-02-12

Site Audited

Lin Kou EMC Laboratory:
No. 47, 14 Ling, Chiapan Tsuen, Lin Kou Hsiang, Taipei Hsien, Taiwan, R.O.C.

Hsin Chu EMC Laboratory:
No. 81-1, Lu Lin Kang, 9 Ling, Wu Lung Tsuen, Chung Lin Hsiang, Hsin Chu, Hsien,
Taiwan, R.O.C.

Lin Kou Safety Laboratory:
No. 46, Lane 504, Chang Hsiao Road, Lin Kou Hsiang, Taipei, Taiwan, R.O.C.

Scope of recognition

EMC testing according to the following standards:

- EN 50081-1/-2
- EN 50082-1/-2
- EN 55011 / CISPR 11
- EN 55013 / CISPR 13
- EN 55014-1/-2 / CISPR 14-1/-2
- EN 55015 / CISPR 15
- EN 55022 / CISPR 22
- EN 61000-3-2 / IEC 1000-3-2 / EN 60555-2 / IEC 555-2
- EN 61000-3-3 / IEC 1000-3-3 / EN 60555-3 / IEC 555-3
- EN 61000-4-2 / IEC 1000-4-2 / IEC 801-2
- EN 61000-4-3 / IEC 1000-4-3 / EN 50140 / IEC 801-3
- EN 61000-4-4 / IEC 1000-4-4 / IEC 801-4
- EN 61000-4-5 / IEC 1000-4-5 / EN 50142
- EN 61000-4-6 / IEC 1000-4-6 / EN 50141
- EN 61000-4-8 / IEC 1000-4-8
- EN 61000-4-11 / IEC 1000-4-11

Safety testing according to the following standards:

- EN 60065 / IEC 65
- EN 60950 / IEC 950

Applications/Limitations

Testing of single- and three phase systems

DET NORSKE VERITAS AS
Postboks 25, 0403 Oslo, Norway
Telephone: +47 22 00 00 00
Fax: +47 22 00 00 00
Page 2 of 3



ENG 3.9
A/D

8th January 1998

Advance Data Technology Corporation
No. 47
14 Ling
Chi Pan Tsuen
Lin Kou Hsiang
Taiwan
R.O.C.

Attention: Ms Sharon Hsiung

Dear Ms Hsiung

LABORATORY APPROVAL

Thank you for your submission of 5th January regarding the re-certification of
your testing laboratory to the Ministry of Commerce's laboratory approval
criteria.

I am pleased to advise that your submission has been successful and your
approval has been extended until 30th June 1998. At this time, the Approved
Laboratory scheme will cease operation with the implementation of the new
radio communication requirements. Test reports from your laboratory will be
accepted under the new framework. Please find enclosed a copy of the
Ministry's discussion paper, DP10, outlining the proposed compliance process
from 1 January 1998.

If you have any further questions on this matter please do not hesitate to
contact me.

Yours faithfully

Brian Emmett
Brian Emmett

Technical Officer (Regulatory)
e-mail: brian.emmett@trac.govt.nz

RADIO SPECTRUM MANAGEMENT GROUP

Operations and Risk Management Branch, Unit 6/12 Manawatu Street, Auckland, New Zealand
P.O. Box 1042, Telephone: 22 44 12 12 Fax: 22 44 12 12



Certificate of Assessment

This is to Certify

That **ADVANCE DATA TECHNOLOGY CORP.**

Has been approved as a supplier of
**"EMC TESTING
SERVICES"**

and in particular for specifications implemented by

The EC DIRECTIVE on EMC

SGS EMC SERVICES

in accordance with

SGS Laboratory Approval Scheme

The scope of approval is detailed in the

Schedule of Assessment

SGS EMC Services
South East
Bournemouth
Co Dorset
Dorset S40
UNITED KINGDOM

Accepted
For and on behalf of
SGS EMC Services
J. W. WILLEY
General Manager
Date: 27/02/98



Technischer Überwachungs-Verein Rheinland

Certificate

of Appointment

No. I-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation
No. 47, 14 Liang, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien,
Taiwan, R.O.C.

has been authorized to carry out EMC tests by order and under supervision of
TUV Rheinland according to

CISPR16, EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, EN 55 022:1994/A1,
EN 55 104:1995, EN 60 555-2:1987, EN 61 000-3-2:1995, EN 61 000-3-3:1995,
EN 50 081-1:1992, EN 50 082-1:1992, EN 50 081-2:1993, EN 50 082-2:1995,
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988, IEC 801-5:1990, EN 61 000-4-2:1995,
ENV 50 148:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1995,
EN 61 000-4-5:1995, EN 61 000-4-8:1993, EN 61 000-4-11:1994, EN 60 601-1-2:1993

An inspection of the facility was conducted according to the Document
"Approval of Test Site" with reference to EN 45 001 by a TUV Rheinland inspector.

Audit Report No. P 9763928E01, Rev. A

This certificate is valid until the next scheduled inspection or up to 15 months,
at the discretion of TUV Rheinland.

TUV Rheinland Taiwan Ltd.
Taipei, 16.07.1997

Dipl.-Ing. G. Lübken
Vice General Manager
Product Safety Department

Dipl.-Ing. U. Meyer
Auditor

The signatures of the Testing and Certification Engineers are an integral part of this certificate.



Technischer Überwachungs-Verein Rheinland

Certificate

of

Appointment

No. I 9865711-9905

The applicant:

Advance Data Technology (ADT) Corporation
Hsin Chu EMC Laboratory
No. 81-1, Lu Lin Keng, 9 Liang, Wu Lung Tsuen, Chung Lin Hsiang,
Hsin Chu Hsien, Taiwan, R.O.C.

has been authorized to carry out EMC tests by order and under supervision of
TUV Rheinland according to

EN 55 011:1991, EN 55 014:1993, EN 55 015:1993, with amendment, EN 55 022:1994/A1,
EN 55 014-2:1997, EN 60 555-2:1987, EN 61 000-3-2:1995, EN 61 000-3-3:1995,
EN 50 081-1:1992, EN 50 082-1:1992, EN 50 081-2:1993, EN 50 082-2:1995,
IEC 801-2:1991, IEC 801-3:1984, IEC 801-4:1988, IEC 801-5:1990, IEC 801-5:1990,
EN 61 000-4-2:1995, ENV 50 148:1993, ENV 50 141:1993,
ENV 50 284:1995, EN 61 000-4-3:1995, EN 61 000-4-4:1995, EN 61 000-4-5:1995,
EN 61 000-4-8:1993, EN 61 000-4-11:1994, EN 60 601-1-2:1993

An inspection of the facility was conducted according to the Document
"Approval of Test Site" with reference to EN 45 001 by a TUV Rheinland inspector.

Audit Report No. P 9865711E01, Rev. A

This certificate is valid until the next scheduled inspection or up to 15 months,
at the discretion of TUV Rheinland.

TUV Rheinland Taiwan Ltd.
Taipei, 25. May 1999

Dipl.-Ing. A. Klinker



Dipl.-Ing. R. Chilton
Auditor



TEL:(02)2603-2180-3

FAX:(02)2602-2943

TEST REPORT & CERTIFICATION SERVICES QUESTIONNAIRE

We, ADT Corp., would like to provide you a high quality report and certification in a timely manner. To achieve this goal, we would like you to response to the brief questions listed below in this questionnaire. Therefore your feed back is vital to us in order to determine how good our services are, and what areas could be improved.

*Please indicate beside each question what you feel is the rating. Also, feel free to make comments and suggestions directly on this questionnaire, or by attaching separate sheet. The completed form should then be returned by mail or FAX to **Harris W. Lai**, Director. Your cooperation and effort are truly appreciated.*

TEST REPORT NUMBER : _____

	YES	NO
1. Was the information presented clearly	[]	[]
2. Was the report complete ?	[]	[]
3. Was the report timely ?	[]	[]
4. Did the report satisfy your requirement ?	[]	[]
5. Was the Certification (if any) completed in the scheduled time ?	[]	[]
Your working field ?	[] Engineering	[] Manufacturing
	[] Marketing	[] Other

YOUR CONTACT INFORMATION (OPTIONAL) : _____

OPTIONAL COMMENTS : _____