



EMC

TEST REPORT

REPORT NO. : F88042020
MODEL NO. : U7003-01, XJ770
DATE OF TEST : Apr. 27, 1999

PREPARED FOR : MAG TECHNOLOGY CO., LTD.

ADDRESS : 9F, 245, SEC. 1, TUNHWA S. RD.,
TAIPEI, 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: May 04, 1999

Product : COLOR MONITOR
Trade Name : MAG
Model No. : U7003-01, XJ770
Applicant : MAG TECHNOLOGY CO., LTD.
Standard : FCC Part 15, Subpart B, Class B
ANSI C63.4-1992
CISPR 22: 1993+A1: 1995+A2: 1996

We hereby certify that one sample of the designation has been tested in our facility on Apr. 27, 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 : Kent , DATE: 5 / 4 / 99
(Kent Chen)

CHECKED BY : Stacy Chang , DATE: 5 / 4 / 99
(Stacy Chang)

APPROVED BY : Mike Su , DATE: 5 / 4 / 99
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION

NVLAP[®]

Accredited Laboratory



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	U7003-01, XJ770
Power Supply Type	:	Switching
Power Cord	:	Nonshielded (1.8 m)
Data Cable	:	Shielded (1.8 m)

Note: The EUT is a 17" Color Monitor with resolution up to 1280x1024.

The EUT has two model names which are identical to each other in all aspects except for their model names:

- Model: U7003-01
- Model: XJ770

From the above models, model: U7003-01 was selected as representative model for the test, and its data is recorded in this report.

There is one 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-233T	FCC DoC Approved	Nonshielded Power (1.8 m)
2.	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded signal (1.4 m)
3.	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.2 m) Nonshielded Power (1.2 m)
4.	MODEM	ACEEX	1414	IFAXDM1414	Shielded signal (1.2 m) Nonshielded Power (1.2 m)
5.	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded signal (1.5 m)
6.	VGA CARD	CARDEX	CD-GX2A44T	ICUVGA-GW710	NA

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 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 NAMA's 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	8590L	3544A00941	Dec. 06, 1999
HP Pre-Amplifier	8447D	2944A08312	Sept. 15, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
R&S Receiver	ESVS10	844594/010	Sept. 24, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE BILOG Antenna	CBL6111A	1500	Sept. 4, 1999
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 5, 2000
EMCO Turn Table	1060-04	1196	NA
EMCO Tower	1051	1264	NA
Open Field Test Site	Site 1	ADT-R01	Aug. 28, 1999

Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMA's 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 - 1000 MHz (Radiated Emission)
Input Voltage : 120 Vac, 60 Hz
Temperature : 24 °C
Humidity : 80 %
Atmospheric Pressure : 1006 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -12.7 dB at 0.449 MHz Minimum passing margin of radiated emission: -2.2 dB at 134.43 MHz

Note: The EUT was pretested under the following resolution & horizontal synchronization speed mode:

- * 1280x1024 mode (64 kHz)
- * 1024x768 mode (69 kHz),
- * 640x480 mode (31.5 kHz)

The worst emission levels were found under 1280x1024 (64 kHz) and therefore therefore the test data of only this mode is recorded.

4.2 EUT OPERATION CONDITION

1. Turn on the power of all equipments.
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 Color Monitor (EUT) and Color 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. Repeat steps 3-7.

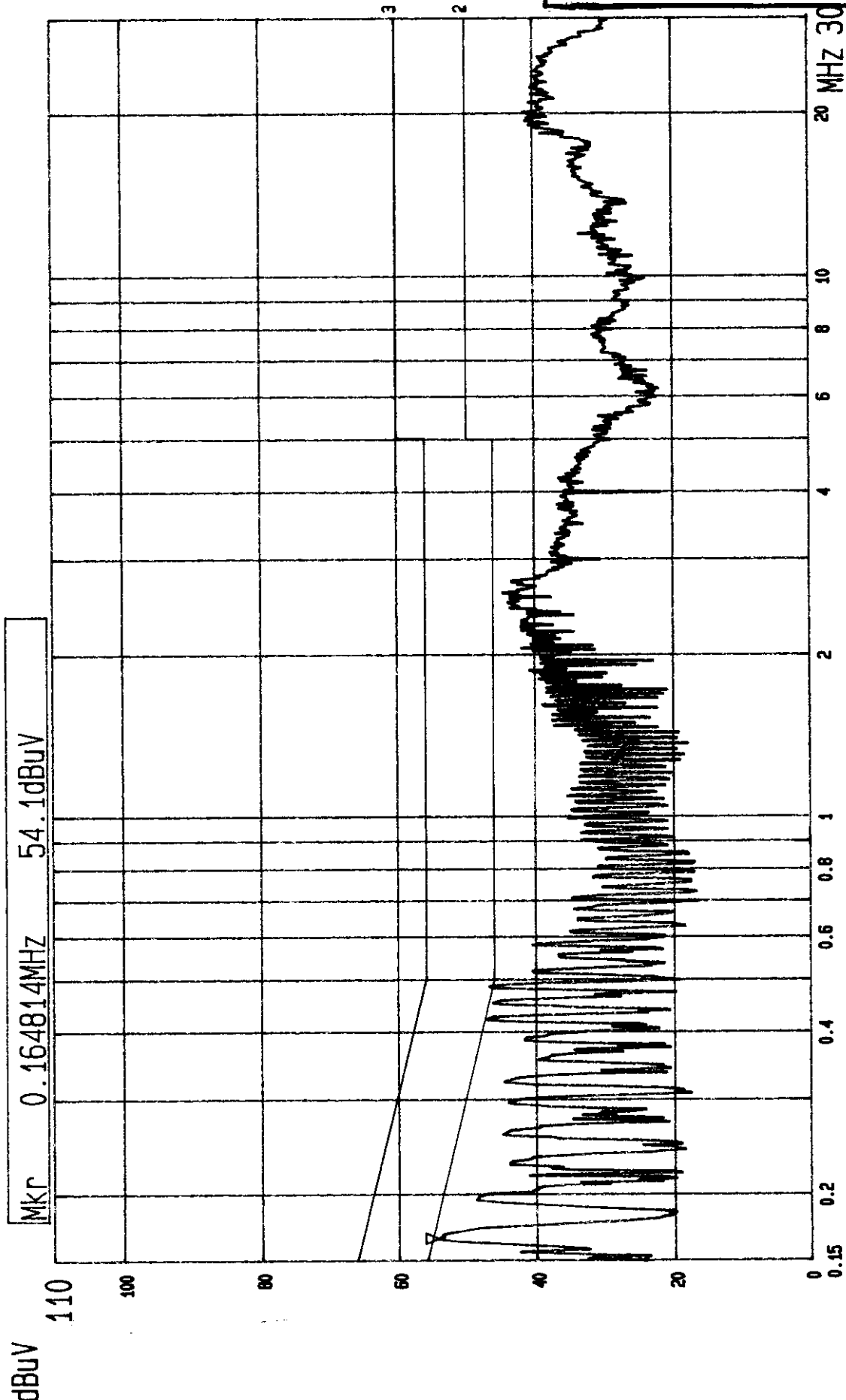


4.3 TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: U7003-01MODE: 1280x1024 (64kHz)6 dB Bandwidth: 10 kHzPHASE: LINE (L)

Freq.	Meter Reading [dB (uV)]					Limit		Margin	
[MHz]	Corr.	Reading Data		Total		[dB (uV)]		[dB (uV)]	
	Factor	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.159	0.1	52.6	-	52.7	-	65.5	55.5	-12.8	-
0.192	0.2	48.7	-	48.9	-	63.9	53.9	-15.0	-
0.449	0.2	43.7	-	43.9	-	56.9	46.9	-13.0	-
2.533	0.3	41.3	-	41.6	-	56.0	46.0	-14.4	-
19.652	1.2	34.3	-	35.5	-	60.0	50.0	-24.5	-
22.349	1.4	33.9	-	35.3	-	60.0	50.0	-24.7	-

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



--- Date 27.APR. '99 Time 14:07:41
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)
MODEL: U7003-01 1280X1024 64KHZ/60HZ LISN: L
ADT CORP.

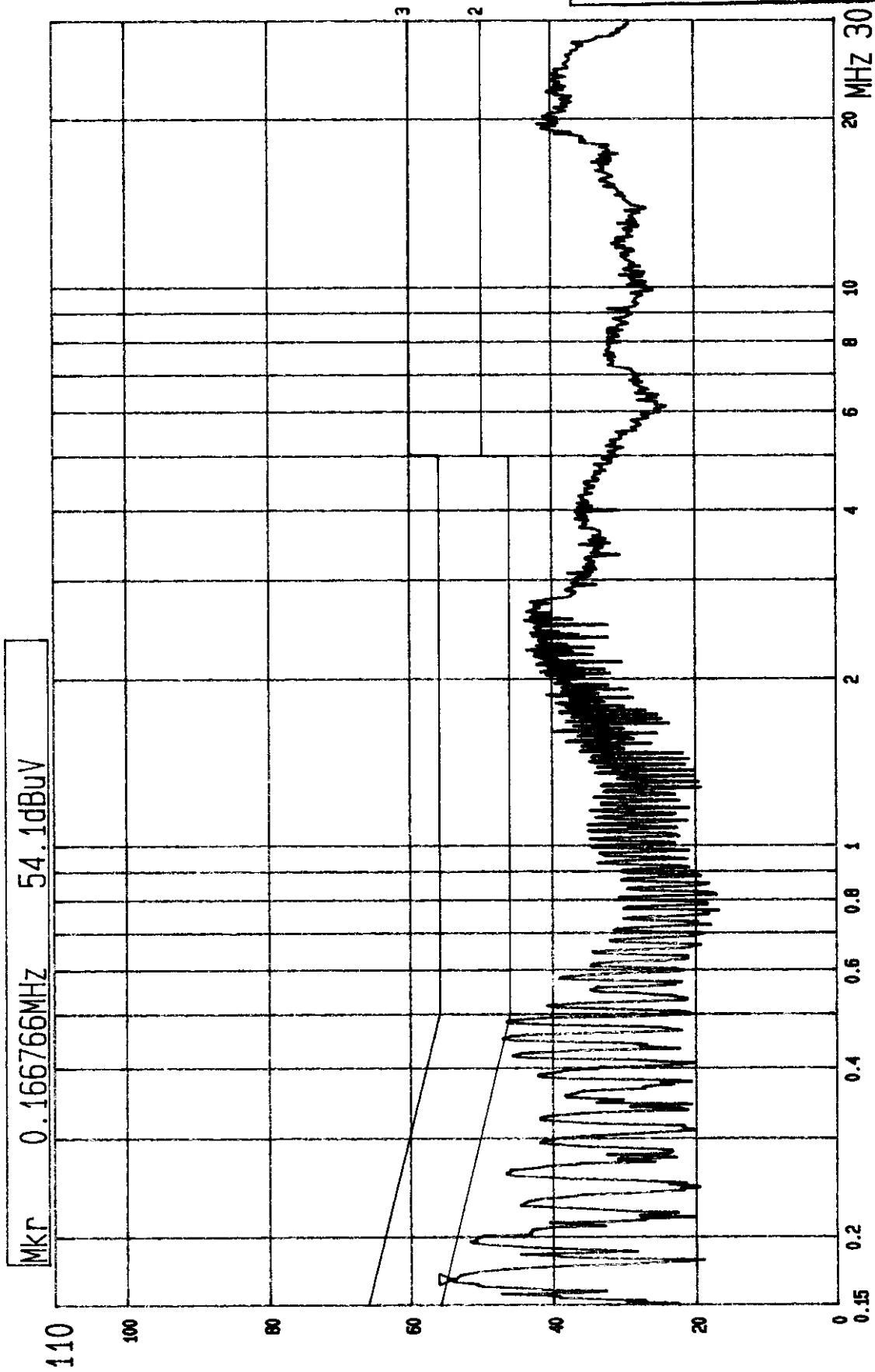


TEST DATA OF CONDUCTED EMISSION

EUT: COLOR MONITORMODEL: U7003-01MODE: 1280x1024 (64kHz)6 dB Bandwidth: 10 kHzPHASE: NEUTRAL (N)

Freq.	Meter Reading [dB (uV)]					Limit		Margin	
[MHz]	Corr.	Reading Data		Total		[dB (uV)]		[dB (uV)]	
	Factor	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.159	0.1	52.2	-	52.3	-	65.5	55.5	-13.2	-
0.192	0.2	49.0	-	49.2	-	63.9	53.9	-14.7	-
0.449	0.2	44.0	-	44.2	-	56.9	46.9	-12.7	-
2.533	0.3	41.4	-	41.7	-	56.0	46.0	-14.3	-
19.652	1.1	33.5	-	34.6	-	60.0	50.0	-25.4	-
22.349	1.4	33.0	-	34.4	-	60.0	50.0	-25.6	-

- Remarks:
1. "***": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak reading value 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



--- Date 27.APR.'99 Time 14:05:40
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)
MODEL: U7003-01 1280X1024 64KHZ/60HZ LISN: N
ADT CORP.



4.4 TEST DATA OF RADIATED EMISSION

EUT: **COLOR MONITOR**MODEL: **U7003-01**MODE: **1280x1024 (64kHz)**ANT. POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
66.64	7.4	16.4	23.8	30.0	-6.2	400	65
153.98	13.5	11.3	24.8	30.0	-5.2	400	247
166.93	12.6	11.9	24.5	30.0	-5.5	400	257
180.59	12.3	13.4	25.7	30.0	-4.3	400	57
199.91	12.7	15.0	27.7	30.0	-2.3	400	293
202.80	12.9	14.3	27.2	30.0	-2.8	400	278

- 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: U7003-01MODE: 1280x1024 (64kHz)ANT. POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
53.42	9.0	18.3	27.3	30.0	-2.7	100	283
73.89	7.8	17.0	24.8	30.0	-5.2	100	174
134.43	15.3	12.5	27.8	30.0	-2.2	100	56
180.59	12.4	13.6	26.0	30.0	-4.0	100	134
200.47	13.4	13.3	26.7	30.0	-3.3	100	27
301.81	18.1	10.8	28.9	37.0	-8.1	100	74

- 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., is 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1588 (ext-219)
Facsimile: 301-344-2080

October 21, 1998

IN 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

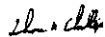
Re: Measurement facility located at above address, Site No. 1
(3 and 10 meters)

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 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 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1588 (ext-219)
Facsimile: 301-344-2080

September 15, 1998

IN 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 Lai

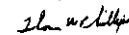
Re: Measurement facility located at Lin Kou, Stage 2 & 3
(3 & 10 meters)

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 been also 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1588 (ext-219)
Facsimile: 301-344-2080

April 17, 1998

IN 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

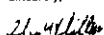
Re: Measurement facility located at above address
Site No. 4 (3 and 10 meters)

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 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 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1588 (ext-219)
Facsimile: 301-344-2080

October 21, 1998

IN 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 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.

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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: 301-725-1585 (ext-218)
Facsimile: 301-344-3390

February 25, 1998

31040/SIT
1300F2

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

Attention: Harris W. Lai

Re: Measurement facility located at above address, Site No. 9
(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 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/ed/facilities/assess.html.

Sincerely,

Thomas W. Phillips

Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1585 (ext-218)
Facsimile: 301-344-3390

July 16, 1998

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 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 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 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/ed/facilities/assess.html.

Sincerely,

Thomas W. Phillips

Thomas W. Phillips
Electronics Engineer
Customer Service Branch

FEDERAL COMMUNICATIONS COMMISSION

Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046

December 23, 1998

Registration Number: 92755

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

Attention: Harris 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 on the FCC Website at WWW.FCC.GOV, Electronic Filing, OET Equipment Authorization Electronic Filing.

Sincerely,

Thomas W. Phillips

Thomas W. Phillips
Electronics Engineer



Technischer Überwachungs-Verein Rheinland

Certificate

of Appointment

No. 1-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation
No. 47, 14 Ling, Chia Pan 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 55 034:1995, EN 55 035-2:1997, 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 50 082-2:1993,
IEC 801-2:1991, IEC 801-3:1994, IEC 801-4:1998, IEC 801-5:1994, EN 61 000-4-2:1993,
ENV 50 140:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1993,
EN 61 000-4-5:1995, EN 61 000-4-6:1993, 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 43 001 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

U. Meyer
Dipl.-Ing. U. Meyer
Vice General Manager
Product Safety Department

Thomas W. Phillips
Dipl.-Ing. U. Meyer
Auditor



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 by
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 by
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 by
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-289

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.3 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-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 HSIAO,
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
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 LING, WU LIANG TSUEN,
CHIUNG LIN HSIANG, Hsin 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
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 LING, WU LIANG TSUEN,
CHIUNG LIN HSIANG, Hsin 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
Information Technology Equipment



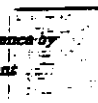
CERTIFICATE

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 LING, WU LIANG TSUEN,
CHIUNG LIN HSIANG, Hsin 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
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 Pau Tsuen,
Lin Kuo Hsing, 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 assessing 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, Head of EMC Section

Postal address:
P.O. Box 75 Skovhus
N-2007 SKOVHUS

Telephone: +47 22 55 00 00
Fax: +47 22 55 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 301-2	EN 61000-4-3, ENV 50140, ENV 50204, IEC 61000-4-7, IEC 301-3	EN 61000-4-4, IEC 61000-4-4, IEC 301-4
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, Nemko EMC Services

Postal address:
P.O. Box 75 Skovhus
N-2007 SKOVHUS

Telephone: +47 22 55 00 00
Fax: +47 22 55 00 00

World-wide Testing and
Certification

ELA 4

EMC Laboratory
Authorization

Aut. No. : ELA 112-b

Hsin Chu EMC Laboratory

EMC Laboratory: ADT Advance Data Technology Corporation
Hsin Chu EMC Laboratory
No. 81-1, Lu Lin Kang, 9 Ling,
Wu Lung Tsuen, Chung Lin Hsing,
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 assessing 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, Head of EMC Section

Postal address:
P.O. Box 75 Skovhus

Telephone: +47 22 55 00 00
Fax: +47 22 55 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 modes)	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, ENV 50204	EN 61000-4-3, IEC 61000-4-3, ENV 50140	EN 61000-4-4, IEC 61000-4-4, IEC 301-4
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, Nemko EMC Services

Postal address:
P.O. Box 75 Skovhus

Telephone: +47 22 55 00 00
Fax: +47 22 55 00 00

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Scope of Accreditation



Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200102-4

ADVANCE DATA TECHNOLOGY CORPORATION

No. 47, 14 Ling, Chia Pui Tsuen,
Lai Kow Hsueh
Tapei Hsueh
TAIWAN
Mr. Harris W. Lai
Phone: 386-2-6032180 Fax: 386-2-6022943

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/T51 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

December 31, 1999

(Effective through)

J. I. G.
Director, National Institute of Standards and Technology

NVLAP 015 (11-99)



ISO/IEC GUIDE 25:1990
ISO 9002:1987

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 265 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Z39.1-1987) as suppliers of calibration of test results. Accreditation is awarded for specific services, based on the Scope of Accreditation for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS FCC

December 31, 1999

J. I. G.
Director, National Institute of Standards and Technology

NVLAP Lab Code 200102-4

NVLAP 015 (11-99)

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Scope of Accreditation



Page 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200376-4

ADVANCE DATA TECHNOLOGY CORPORATION HSIEN CHU EMC LABORATORY

No. 31-1, Lu Lian Kung, 9 Ling, Wu Lung
Tsean, Chang Lin Hsueh
Hsu Chi Hsueh
TAIWAN
Mr. Harris Lai
Phone: 386-2-26032180 Fax: 386-2-26022943
E-Mail: harris@emc.adt.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/T51 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

March 31, 2000

(Effective through)

J. I. G.
Director, National Institute of Standards and Technology

NVLAP 015 (11-99)



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

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

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 265 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Z39.1-1987) as suppliers of calibration of test results. Accreditation is awarded for specific services, based on the Scope of Accreditation for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS FCC

March 31, 2000

(Effective through)

J. I. G.
Director, National Institute of Standards and Technology

NVLAP Lab Code 200376-4

NVLAP 015 (11-99)

通譯

經濟部商品檢驗局(通)

中華民國三十五年十月五日

檢字(八十五)字第

號

受文者：誠信科技股份有限公司

行文單位：正本：誠信科技股份有限公司

副本：本局第二組(二份)、第三組、秘書室(各四份)、檢處處、各分局(均無附件)

主旨：有關貴公司電磁相容性測試實驗室申請本局電磁相容性測試認可案，業經實地評鑑結果，同意認可登錄，請 查照。

說明：

一、據 貴公司八十五年十月四日未列字號函。

二、認可登錄範圍如下：

實驗室名稱：誠信科技股份有限公司電磁相容性測試實驗室

實驗室地址：台北縣林口鄉嘉寶村(二)段之四號

認可登錄代號	認可產品類別	報告簽字人
20823	(一)資訊設備	賴輝煌
20823	(二)家庭用電器產品	賴輝煌
20823	(三)廣播接收機與相關產品(收音機)	賴輝煌
20823	(四)廣播接收機與相關產品(收音機)	賴輝煌

評鑑標準：ISO Guide 25 (1990年版)

三、本實驗室認可期限自八十五年十月二十二日起至八十八年十月二十一日止，評鑑通過後每兩年乙次，得視需要增加檢量次數，惟首次通過後首六個月內執行。

四、上開已認可領域如有變更事項，請於變更日起二週內函送相關資料至本局辦理。

五、貴公司執行本局指定之檢驗業務，依「商品檢驗法」第二十六條規定以執行公務。

六、檢送「商品電磁相容性試驗報告」格式乙份，請自行印製使用。

七、檢送「商品電磁相容性試驗報告」格式乙份，請自行印製使用。

局長許鵬翔

檢閱分局負責規定檢驗標準並簽決付

通譯

經濟部商品檢驗局(通)

中華民國三十五年十月五日

檢字(八十五)字第

號

受文者：誠信科技股份有限公司

附件如文

行文單位：正本：誠信科技股份有限公司

副本：本局第二組(二份)、第三組、秘書室(請刊登於相關刊物)、秘書室(秘書科請刊登於相關刊物)、檢處處、各分局(均無附件)

主旨：有關貴公司電磁相容性測試實驗室申請本局電磁相容性測試認可案，業經實地評鑑結果，同意認可登錄，請 查照。

說明：

一、據 貴公司八十六年二月二十一日未列字號函。

二、認可登錄範圍如下：

實驗室名稱：誠信科技股份有限公司電磁相容性測試實驗室

實驗室地址：台北縣林口鄉嘉寶村(二)段之四號

認可登錄代號	認可產品類別	報告簽字人
1295	(一)廣播接收機與相關產品(收音機)	賴輝煌
1295	(二)廣播接收機與相關產品(收音機)	賴輝煌
1295	(三)廣播接收機與相關產品(收音機)	賴輝煌
1295	(四)廣播接收機與相關產品(收音機)	賴輝煌

評鑑標準：ISO Guide 25 (1990年版)

三、本實驗室認可期限自八十六年七月七日起至八十八年十月二十一日止，評鑑通過後每兩年乙次，得視需要增加檢量次數，惟首次通過後首六個月內執行。

四、上開已認可領域如有變更事項，請於變更日起二週內函送相關資料至本局辦理。

五、貴公司執行本局指定之檢驗業務，依「商品檢驗法」第二十六條規定以執行公務。

六、檢送「商品電磁相容性試驗報告」格式乙份，請自行印製使用。

局長陳佐鎮

檢閱分局負責規定檢驗標準並簽決付



DET NORSKE VERITAS STATEMENT OF RECOGNITION

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

This is to confirm 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 conformance 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
Havik, 23 February, 1999
for Det Norske Veritas AS
(Notified Body no. 575/434)

This Statement is valid until
23 February, 2000

Arvid Westin
Arvid Westin
Head of Section



A. T. Olsen
A. T. Olsen
Lead Auditor

Notes: This document is subject to change without notice. Any reproduction or distribution of this document without the written consent of Det Norske Veritas AS is prohibited. The document is the property of Det Norske Veritas AS and shall be returned to the company upon request. The document is not to be used for any other purpose than the one for which it was issued. The document is not to be used for any other purpose than the one for which it was issued.

DET NORSKE VERITAS AS
P.O. Box 25, 2000
Havik, Norway
Page 1 of 3



Statement No. 413 - 99 - LAB12

Audit information

Initial audit:

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

Sites 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 Line Kang, 9 Ling, Wu Lung Tsuen, Chung Lin Hsiang, Hsin Chu, Hsien,
Taiwan, R.O.C.

Lin Kou Safety Laboratory:
No. 46, Lane 504, Chung 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 901-2
- EN 61000-4-3 / IEC 1000-4-3 / EN 50140 / IEC 901-3
- EN 61000-4-4 / IEC 1000-4-4 / IEC 901-4
- 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 61000-1-1 / IEC 1000-1-1

Safety testing according to the following standards:

- EN 60665 / IEC 65
- EN 60950 / IEC 950

Applications/Limitations

Testing of single- and three phase systems

DET NORSKE VERITAS AS
P.O. Box 25, 2000
Havik, Norway
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8th January 1998

Advance Data Technology Corporation
No. 47
14 Ling
Chi Pao 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 communications regulations. Test records from your laboratory will be
accepted under the new framework. Please find enclosed a copy of the
Ministry's discussion paper, OP10, 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@moc.govt.nz

RADIO SPECTRUM MANAGEMENT GROUP

Regulatory and Radio Spectrum Division, Level 10, 12 Market Street, Auckland, 1
P.O. Box 1042, Telephone: (09) 366 1242 Fax: (09) 366 1249



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 Asia
Beverly
Co. Chairman
CHS Ltd
UNITED KINGDOM

Issued
For and on behalf of
SGS EMC Services
J. A. WILLEY
General Manager
Date: 02/05/96



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 : _____