

EXHIBIT 4
RFI/EMI TEST REPORT



EMC

FCC/MELDON

JAN 10 1999

TEST REPORT

REPORT NO. : F87120805
MODEL NO. : CM701
DATE OF TEST : Dec. 25, 1998

PREPARED FOR : ADI CORPORATION

ADDRESS : 14TH FL. NO. 1, SEC. 4, NAN-KING E. 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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TABLE OF CONTENTS

1. CERTIFICATION..... 3

2. GENERAL INFORMATION 4

 2.1 GENERAL DESCRIPTION OF EUT 4

 2.2 DESCRIPTION OF SUPPORT UNITS 5

 2.3 TEST METHODOLOGY AND CONFIGURATION..... 5

3. TEST INSTRUMENTS 6

 3.1 TEST INSTRUMENTS (EMISSION)..... 6

 3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION..... 7

4. TEST RESULTS (EMISSION) 8

 4.1 RADIO DISTURBANCE 8

 4.2 EUT OPERATION CONDITION 8

 4.3 TEST DATA OF CONDUCTED EMISSION (A)..... 9

 4.4 TEST DATA OF CONDUCTED EMISSION (B) 10

 4.5 TEST DATA OF RADIATED EMISSION..... 11

5. PHOTOGRAPHS OF THE TEST CONFIGURATION WITH MINIMUM MARGIN. 13

6. APPENDIX - INFORMATION OF THE TESTING LABORATORY 16

**1. CERTIFICATION**

Issue Date: Dec. 29, 1998

Product : COLOR MONITOR
Trade Name : ADI
Model No. : CM701
Applicant : ADI CORPORATION
Standard : FCC Part 15, Subpart B, Class B
ANSI C63.4-1992
CISPR 22:1993+A1:1995+A2:1997

We hereby certify that one sample of the designation has been tested in our facility on Dec. 25, 1998. 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: John Liao, DATE: 12/29/98
(John Liao)

CHECKED BY: Yemmy Soong, DATE: 12/29/98
(Yemmy Soong)

APPROVED BY: Mike Su, DATE: 12/29/98
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION**NVLAP[®]**

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	COLOR MONITOR
Model No.	:	CM701
Power Supply Type	:	Switching
Power Cord of monitor	:	Nonshielded (1.8 m)
Data Cable of monitor	:	Shielded (1.5 m)
Power Cord of speaker from power adapter	:	Nonshielded 2-pin (1.9 m)
Audio cable of speaker	:	Nonshielded (1.8 m)

Note: The EUT is a 17" color monitor with resolution up to 1600x1200.

The EUT has 2 type of Picture Tubes with the following description :

- MicroScan G56 : 17" (16" diagonal viewable image) 0.26mm dot pitch FST tube with enhanced contrast, dark-tinted CRT, invar shadow mask, advanced anti-reflection, anti-glare, and anti-static coating with low electromagnetic field.
- MicroScan GT56 : 17" (16" diagonal viewable image) 0.25mm aperture grille Pitch Trinitron tube with less mottling, low EMI radiation Structure, surfaced with Anti-Reflection Treatment Screen and anti static coating with low electromagnetic field.

From both type of picture tubes, MicroScan GT56 was selected as the representative for the test, and the data is recorded in this report.

The EUT also provides hooks for a set of external speaker connected to the sound card of PC. The EUT was tested with speaker, model : SP-3000. There is a separate conducted test data in this report.

The speaker uses a TECHNICS power adapter, model: TE-12800V.
Its rating: Input: 230V, 50Hz, 97mA and Output: 12Vdc 800mA.

The EUT was tested with a USB box, model: UH-200, which acted as a base for the EUT.

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-233T	FCC DoC Approved	Nonshielded Power (1.8m)
2	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded Signal (1.4m)
3	USB BOX	ADI	UH-200	BR8UH-200	DC Power to monitor (0.3m) Shielded Signal to PC (1.8m)
4	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.4m) Nonshielded Power (1.9m)
5	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.2m) Nonshielded Power (1.9m)
6	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded Signal (1.5m)
7	CCD CAMERA 2X	COMPAQ	YC72-CPQ	EDUYC72-CPQ	Shielded Signal (1.8m)
8	HEADPHONE	GAMMA	LH115	N/A	N/A
9	VGA DISPLAY	CARDEX	CD-GX2A44T	ICUVGA-GW710	N/A
10	SOUND CARD	YA HSIN	AUDIO 1869	FCC DoC Approved	N/A

- Note: 1. Support unit 7 was connected to the USB box (support unit 3).
 2. Two USB cables (1.8m) were connected to the USB box (support unit 3) to form two open loop cables.
 3. An audio cable (1.8m) was connected from the speaker to PC.
 4. A mic cable (1.5m) was connected from EUT to PC.

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)

RADIATED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8590L	3544A01042	April 29, 1999
HP Preamplifier	8447D	2944A08313	March 21, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
ROHDE & SCHWARZ TEST RECEIVER	ESVS 30	841977/008	Oct. 1, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE BiLOG Antenna	CBL6111A	1647	July 3, 1999
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 3, 1999
EMCO Turn Table	1016	1722	N/A
EMCO Tower	1051	1825	N/A
Open Field Test Site	Site 4	ADT-R04	June 19, 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.

CONDUCTED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESHS30	828765/002	July 29, 1999
ROHDE & SCHWARZ Artificial Mains Network	ESH2-Z5	828075/003	July 27, 1999
EMCO-L.I.S.N.	3825/2	90031627	July 27, 1999
Shielded Room	Site 5	ADT-C05	N/A

- 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.



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

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

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
Above 1000	300	49.5	500	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	:	21 °C
Humidity	:	71 %
Atmospheric Pressure	:	1013 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -9.0 dB at 0.288 & 9.888 MHz
	Minimum passing margin of radiated emission: -3.0 dB at 60.88 MHz

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

- * 1600x1200 mode (93.7 kHz),
- * 1280x1024 mode (91 kHz),
- * 640x480 mode (31 kHz)

The worst emission levels were found under 1600x1200 mode (93.7 kHz) and 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 monitor (EUT) and monitor displays "H" patterns on screen.
5. CCD cameras capture an image and send image messages to EUT and EUT displays them on its screen.
6. PC sends "H" messages to modem.
7. PC sends "H" messages to printer, and the printer prints them on paper.
8. PC sends audio messages to headphone or speaker.
9. Repeat steps 3-9.



4.3 TEST DATA OF CONDUCTED EMISSION (A)

EUT: COLOR MONITOR

MODEL: CM701

MODE: 1600x1200 (93.7 kHz)

6 dB Band Width: 10 kHz

Freq. [MHz]	L Level [dB (μV)]		N Level [dB (μV)]		Limit [dB (μV)]		Margin [dB (μV)]			
	QP	AV	QP	AV	QP	AV	L		N	
0.150	41.9	-	45.3	-	66.0	56.0	-24.1	-	-20.7	-
0.422	32.8	-	36.1	-	57.4	47.4	-24.6	-	-21.3	-
0.562	34.0	-	37.6	-	56.0	46.0	-22.0	-	-18.4	-
2.207	37.7	-	38.4	-	56.0	46.00	-18.3	-	-17.6	-
9.888	49.8	-	51.0	33.1	60.0	50.0	-10.2	-	-9.0	-16.9
19.681	46.4	-	45.5	-	60.0	50.0	-13.6	-	-14.5	-

- 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

ADT CO. Shielded Room 5
 CISPR 22 CLASS B

25. Dec 98 13:56

EUT: MODEL: CM701
 Op Cond: 1500x1200 93.7kHz
 Test Spec: LISN : L
 Comment: FULL SYSTEM

Report No. F 87120805

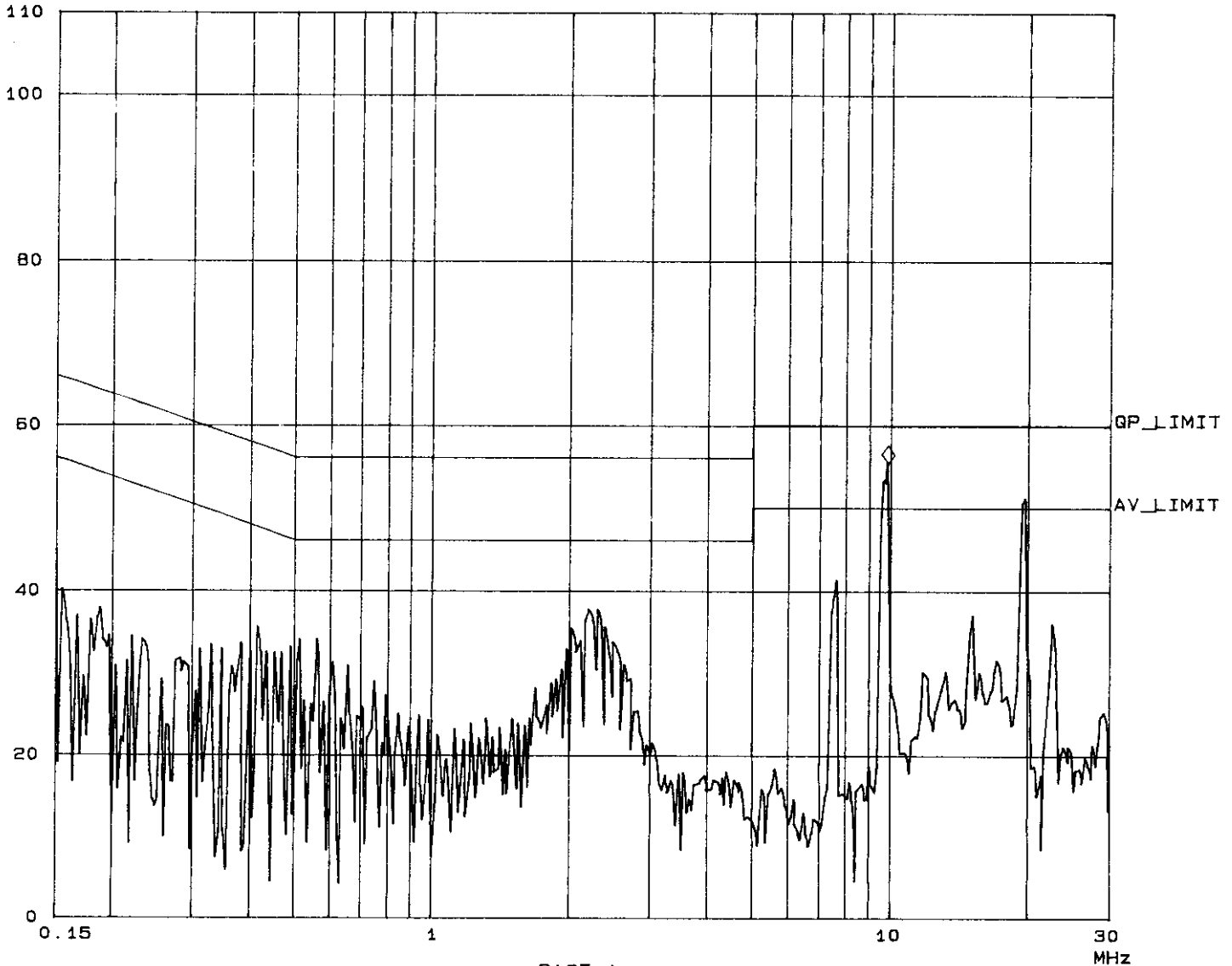
Page 9-1

Tested by John Liad

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dBLN	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB

dBuV ◇ Mkr : 9.87800MHz 55.4 dBuV



ADT CO. Shielded Room 5
 CISPR 22 CLASS B

25. Dec 98 14:14

EUT: MODEL: CM701
 Op Cond: 1600x1200 93.7kHz
 Test Spec: LISN : N
 Comment: FULL SYSTEM

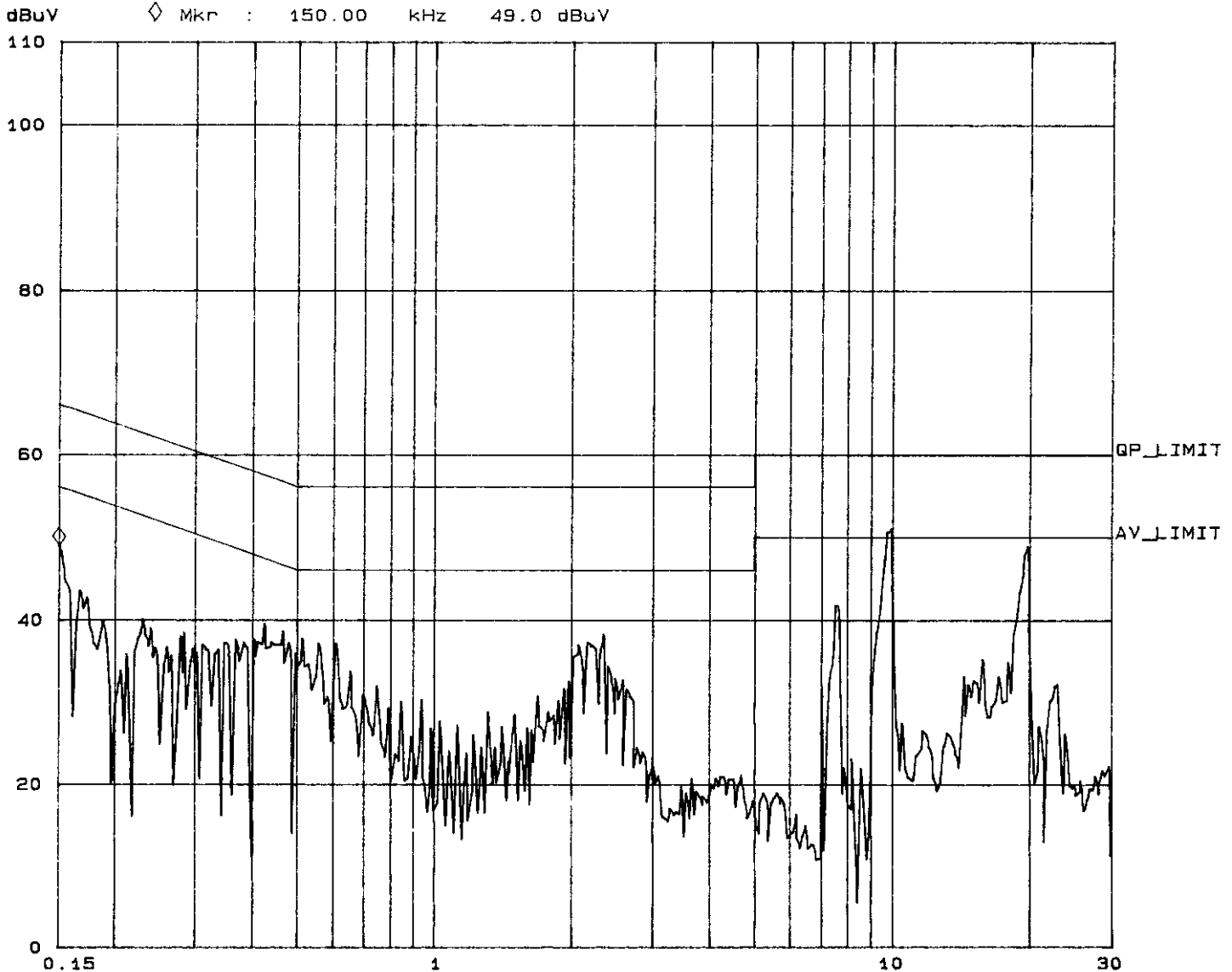
Report No. F87120805

Page 9-2

Tested by John Liao

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dBLN	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB





4.4 TEST DATA OF CONDUCTED EMISSION (B)

EUT: COLOR MONITOR

MODEL: CM701

MODE: Speaker Adapter

6 dB Band Width: 10 kHz

Freq. [MHz]	L Level [dB (μV)]		N Level [dB (μV)]		Limit [dB (μV)]		Margin [dB (μV)]			
	QP	AV	QP	AV	QP	AV	L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.150	53.4	-	54.4	-	66.0	56.0	-12.6	-	-11.6	-
0.171	53.0	-	54.2	-	64.9	54.9	-11.9	-	-10.7	-
0.288	48.8	-	51.6	-	60.6	50.6	-11.8	-	-9.0	-
0.852	29.5	-	40.3	-	56.0	46.0	-26.5	-	-15.7	-
7.547	45.8	-	45.6	-	60.0	50.0	-14.2	-	-14.4	-
10.002	50.5	33.3	50.7	34.4	60.0	50.0	-9.5	-16.7	-9.3	-15.6

- 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
 6. The above measured reading data are of speaker fixed on EUT.

ADT CO. Shielded Room 5
 CISPR 22 CLASS B

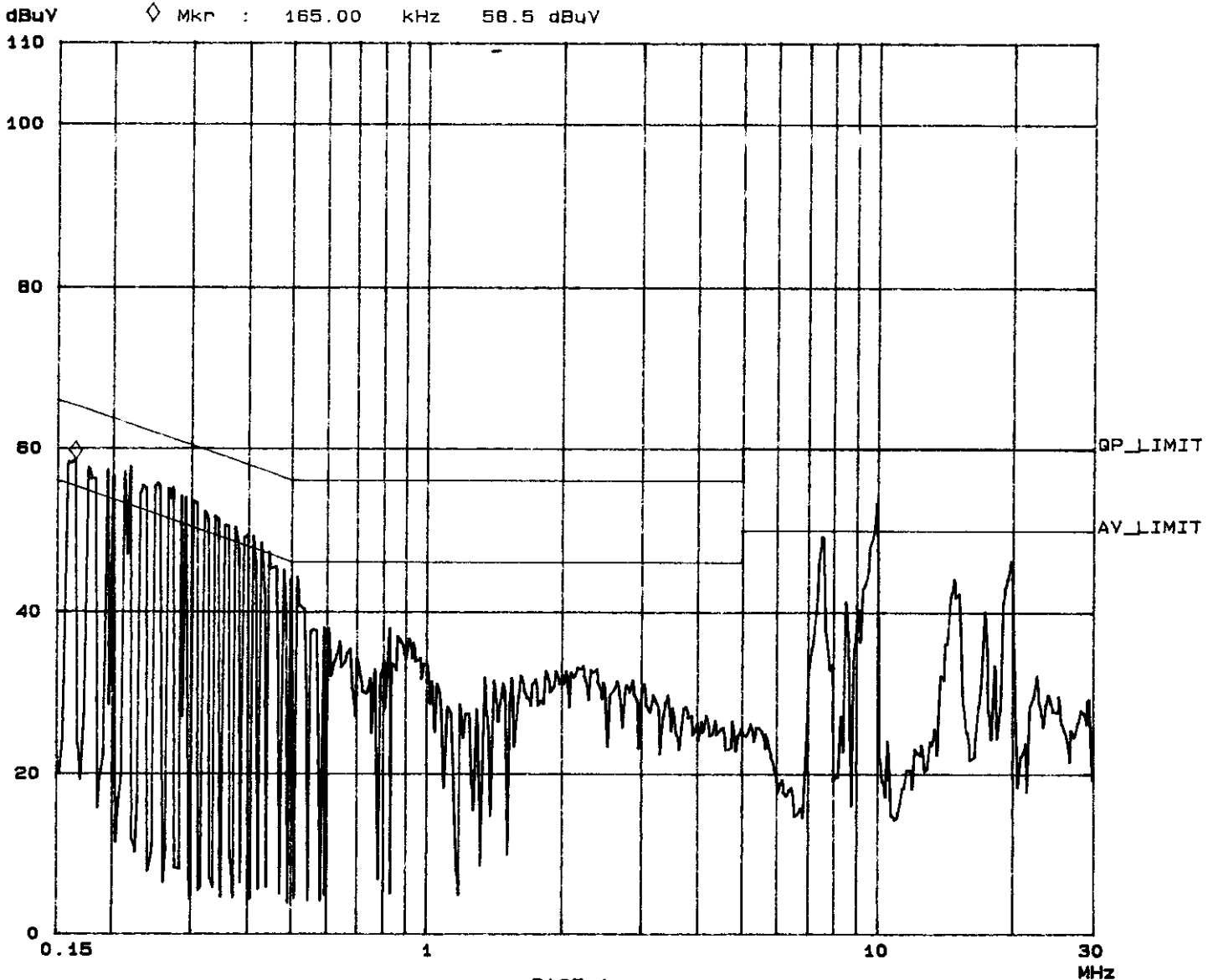
25. Dec 98 15:56

EUT: MODEL: CM701 (ADAPTOR: TEAD-48-120800U)
 Op Cond: 1800x1200 93.7kHz
 Test Spec: LISN : L
 Comment: FULL SYSTEM

Report No. F87120805
 Page 10-1
 tested by John Lina

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dB	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dB	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dB	OFF	60dB



ADT CO. Shielded Room 5
 CISPR 22 CLASS B

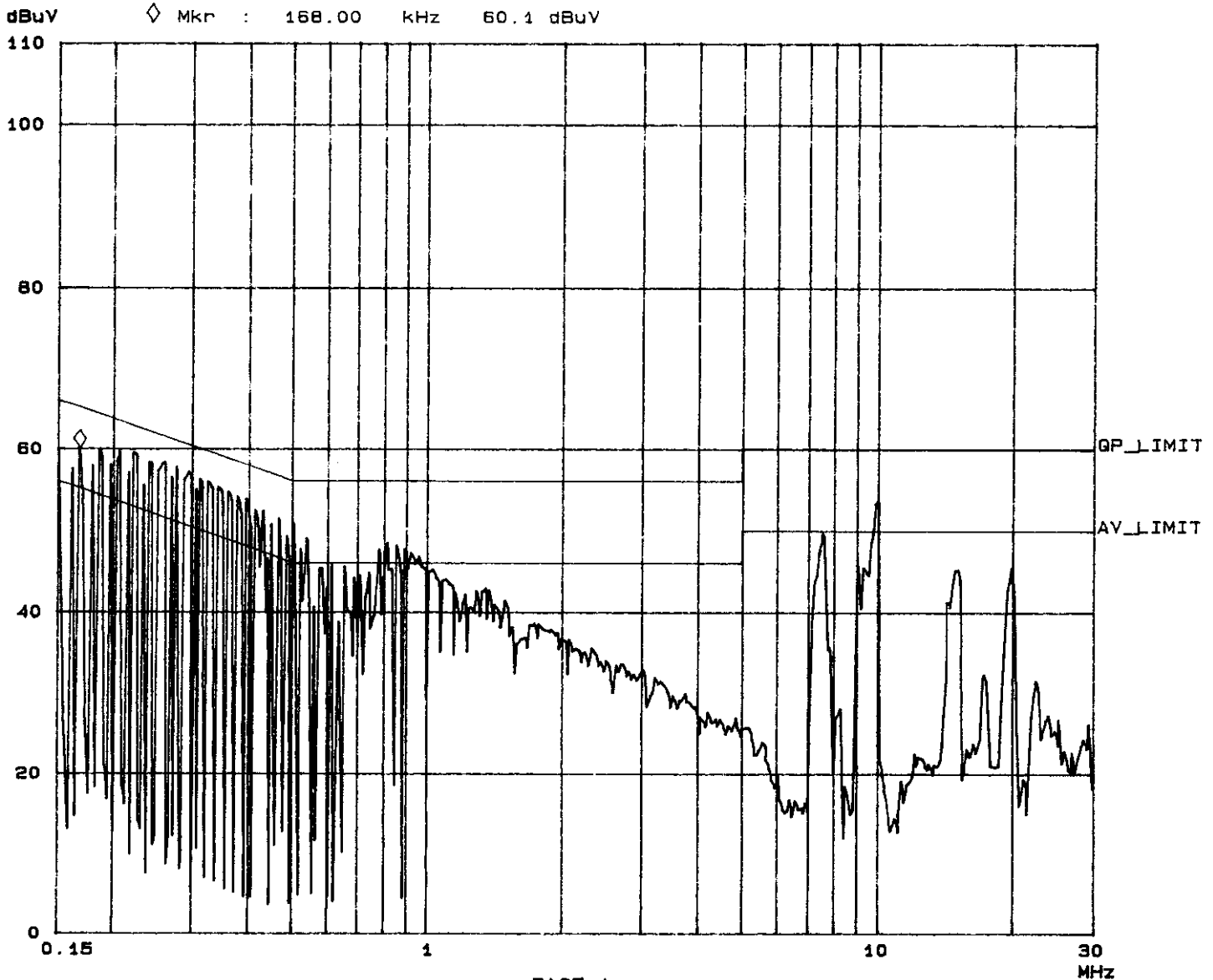
25. Dec 98 15:41

EUT: MODEL: CM701 (ADAPTOR: TEAD-48-120800U)
 Op Cond: 1600x1200 93.7kHz
 Test Spec: LISN : N
 Comment: FULL SYSTEM

Report No. F87120805
 Page 10-2
 Tested by John Lias

Fast Scan Settings (3 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150k	450k	3k	10k	PK	1ms	10dBLN	OFF	60dB
450k	5M	3k	10k	PK	1ms	10dBLN	OFF	60dB
5M	30M	3k	10k	PK	1ms	10dBLN	OFF	60dB





4.5 TEST DATA OF RADIATED EMISSION

EUT: **COLOR MONITOR**

MODEL: **CM701**

MODE: **1600x1200 (93.7 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 MHz**

MEASURED DISTANCE: **10 M**

FREQUENCY RANGE: **1000-2000 MHz**

MEASURED DISTANCE: **3 M**

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.59	15.9	3.9	19.8	30.0	-10.2
60.87	7.8	19.1	26.9	30.0	-3.1
81.15	9.8	8.9	18.7	30.0	-11.3
101.44	11.8	11.5	23.3	30.0	-6.7
108.02	12.6	6.7	19.3	30.0	-10.7
120.03	14.2	7.1	21.3	30.0	-8.7
121.72	14.2	6.5	20.7	30.0	-9.3
142.01	14.1	10.9	25.0	30.0	-5.0
144.01	13.9	7.5	21.4	30.0	-8.6
162.30	12.0	11.2	23.2	30.0	-6.8
182.59	11.6	11.8	23.4	30.0	-6.6
192.02	11.6	9.6	21.2	30.0	-8.8
202.88	11.8	11.8	23.6	30.0	-6.4
216.03	12.6	7.2	19.8	30.0	-10.2
426.04	19.8	12.4	32.2	37.0	-4.8

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
 2. Correction Factor (dB/m) = Ant. Factor (dB/m) + 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: CM701MODE: 1600x1200 (93.7 kHz)ANT. POLARITY: VerticalDETECTOR 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 MHz*MEASURED DISTANCE: 3 M

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.59	14.4	10.3	24.7	30.0	-5.3
60.88	7.7	19.3	27.0	30.0	-3.0
81.15	7.4	15.2	22.6	30.0	-7.4
101.44	10.2	14.1	24.3	30.0	-5.7
108.06	11.3	12.6	23.9	30.0	-6.1
120.02	13.3	9.9	23.2	30.0	-6.8
121.73	13.5	9.0	22.5	30.0	-7.5
142.02	15.2	10.8	26.0	30.0	-4.0
162.31	12.6	8.8	21.4	30.0	-8.6
182.59	11.5	8.8	20.3	30.0	-9.7
192.01	11.8	11.6	23.4	30.0	-6.6
202.89	12.2	9.7	21.9	30.0	-8.1
216.04	12.7	9.3	22.0	30.0	-8.0
426.05	19.9	12.0	31.9	37.0	-5.1

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
 2. Correction Factor (dB/m) = Ant. Factor (dB/m) + 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 |
| ● U.K. | INCHCAPE, SGS |
| ● R.O.C. | BCIQ |

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: 301-725-1888 (toll-free)
Facsimile: 301-344-2000

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 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1888 (toll-free)
Facsimile: 301-344-2000

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, 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1888 (toll-free)
Facsimile: 301-344-2000

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 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

7438 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1888 (toll-free)
Facsimile: 301-344-2000

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 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

3030 Colston 8th Road
 Columbia, MD 21046
 Telephone: 301-725-1800 (toll-free)
 Facsimile: 301-724-3200

February 25, 1998

ATTENTION: 31046/SIT
 1300P2

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

Attention: Harris W. Lai

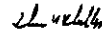
Re: Measurement facility located at above address, Site No. 8
 (3 and 10 meters)

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 C63.4-1982. 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/etw/info/databases/atestsite.

Sincerely,



Thomas W. Phlips
 Electronics Engineer
 Customer Service Branch



Technischer Überwachungs-Verein Rheinland

Certificate

of Appointment

No. 1-9763928-9707

The applicant:

Advance Data Technology (ADT) Corporation
 No. 47, 14 Ling, Chia Pan Traan, Lin Kow Hsiang, Taipei Hsien,
 Taiwan, R.O.C.

has been authorized to carry out EMC tests by order and under supervision of TÜV 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 60 525-2:1987, 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 50 082-2:1993,
 IEC 301-2:1991, IEC 301-3:1984, IEC 301-4:1988, IEC 301-5:1996, EN 61 000-4-2:1995,
 ENV 50 140:1993, ENV 50 141:1993, IEC 1 000-4-3:1995, EN 61 000-4-4:1995,
 EN 61 000-4-5:1995, EN 61 000-4-6:1993, 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 Sites" with reference to EN 45 001 by a TÜV Rheinland inspector.

Audit Report No. P 9763928E01, Rev. A

This certificate is valid until the next scheduled inspection or up to 12 months, at the discretion of TÜV Rheinland.

TÜV Rheinland Taiwan Ltd.
 Taipei, 16.07.1997



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



Dipl.-Ing. U. Meyer
 Auditor

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



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 Traan,
 Lin Kow 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 organization - 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).

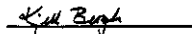
In case of applications for Product Certification(s) to be issued by Nemko, your EMC Laboratory's test reports(s) will be accepted by Nemko if they are enclosed with the Application Form submitted by the manufacturer.

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

Print address: Oslo, Norway
 Telephone: +47 22 00 00 00
 Fax: +47 22 00 00 00
 E-mail: nemko@nemko.no



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 50061-1, EN 50061-2	EN 50062-1, EN 50062-2	EN 55011, Gr. 1, CISPR 11
EN 55013, CISPR 13	EN 55014-1, CISPR 14-1	EN 55015, CISPR 15
EN 55022	EN 60523-2, IEC 555-2, EN 61000-3-2, IEC 61000-3-2	EN 60523-3, IEC 555-3, EN 61000-3-3, IEC 61000-3-3

BASIC STANDARDS


EN 61000-4-2, IEC 61000-4-2, IEC 901-2	EN 61000-4-3, ENV 50148, ENV 50204, IEC 61000-4-3, IEC 301-3	EN 61000-4-4, IEC 61000-4-4, IEC 301-4
EN 61000-4-5, IEC 61000-4-5	EN 61000-4-4, ENV 50141, IEC 61000-4-4	EN 61000-4-6, IEC 61000-4-6
EN 61000-4-11, IEC 61000-4-11		

Oslo, 13 March 1998




Kjell Bergh, Nemko EMC Services

Print address: Oslo, Norway
 Telephone: +47 22 00 00 00
 Fax: +47 22 00 00 00
 E-mail: nemko@nemko.no



 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 200102-6

ADVANCE DATA TECHNOLOGY CORPORATION
 No. 47, 14 Ling, Chia Pan Tsuen,
 Lin Kou Hsiang
 Taipei Hsien
 TAIWAN
 Mr. Harris W. Lai
 Phone: 886-2-6032180 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

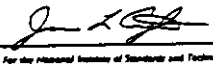
Federal Communications Commission (FCC) Methods

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 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment


December 31, 1998




 For the National Institute of Standards and Technology

NVLAP#10111-000

United States Department of Commerce
 National Institute of Standards and Technology





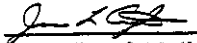
ISO/IEC GUIDE 25:1996
 ISO 9002:1987
 Certificate of Accreditation

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 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) 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, 1998



 For the National Institute of Standards and Technology
 NVLAP Lab Code: 200102-6



 MINISTRY OF COMMERCE
 To Manah Teuhokohoko

ENG 3/8
AJO

20 February 1998

Advance Data Technology Corporation
 12F
 No 1
 Sec 4
 Nan King E Rd
 Taipei
 TAIWAN ROC
 Attention: Mr Harris W Lai

Dear Sir

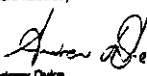
LABORATORY APPROVAL

Thank you for your letter of 19 February 1997 regarding the re-certification of your testing laboratory to the Ministry of Commerce's laboratory approval criteria.

I am pleased to advise that your approval has been extended until 31 December 1998. At this time, the Approved Laboratory scheme will cease operation with the implementation of the new radiocommunications regulations. Test reports from your laboratory will be accepted under the new framework. Please find enclosed a copy of the Ministry's discussion paper, DP-10, 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



 Andrew Dyke
 Senior Technical Officer(Regulatory)

Operations and Risk Management Branch, Ministry of Commerce Building, 33 Queen Street, Wellington, New Zealand
 P.O. Box 214 - Telephone: 0800 472 8928 Fax: (061) 473 2499



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

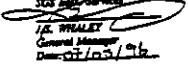
in accordance with

SGS Laboratory Approval Scheme

The scope of approval is detailed in the

Schedule of Assessment

SGS EMC Services
 Smith and Ede
 Boreham
 Co Durham
 DN10 5AD
 UNITED KINGDOM

Licensed
 For and on behalf of
 SGS EMC Services

 G. WEALEY
 General Manager
 Date: 02/19/98



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: ADVANCE DATA TECHNOLOGY CORP. No. 3 Site
 (Radiation 3m, 10 meter site, and
 Conducted Interference Measurement)
 Company : ADVANCE DATA TECHNOLOGY CORP.
 Address : No. 47, CHIA PAU TSUEN, LIN KOU HSIANG,
 TAIPEI HSIEN, TAIWAN, R.O.C.

*This is to certify that the following measuring facility
 has been registered in accordance with the Regulations
 for Voluntary Control Measures, Article 3.*

Registration No. : R-269 and C-274
 Date of Registration : November 2, 1995
 This Certificate is valid until December 31, 1998

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 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-728
 Date of Registration : May 19, 1998
 This Certificate is valid until June 30, 2001

Voluntary Control Council for Interference by
 Information Technology Equipment



中華民國國曆八年十月四日
 經濟部商品檢驗局(函) 檢發(八十五)三字第 20823 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(檢四件)、檢發處、各分局(均為附件)

主旨：有關貴公司定檢相客檢測實驗室申請本局電檢相客檢測認可案，業經實地評鑑結果，同意認可登錄，請查照。

一、查貴公司八十五年十月四日本列字號函。
 二、認可登錄範圍如下：

認可代號	認可產品類別	檢查查察人
92-11E-03	(I) 資訊設備	賴輝煌
92-11E-03	(II) 資訊用電腦產品	賴輝煌
92-11E-03	(III) 資訊設備	賴輝煌
92-11E-03	(IV) 資訊設備	賴輝煌
92-11E-03	(V) 資訊設備	賴輝煌

評核標準：ISO Guide 25 (1990年版)
 三、本實驗室認可期限三年，自八十五年十月二十二日起至八十八年十月二十一日止，評核逾期半年乙次，得視需要增加檢查次數，惟首次檢查作業於六個月內執行。
 四、上開已認可範圍如有變更事項，請於變更日起二週內函送相關資料至本局辦理。
 五、貴中心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論，且貴中心應依規定履行相關之責任與義務。
 六、檢送「商品電檢相客式檢驗報告」格式乙份，請自行印置使用。
 七、檢送「商品電檢相客式檢驗報告」格式乙份，請自行印置使用。

局長許鵬翔
 中華民國國曆八年十月四日

中華民國國曆八年二月二十一日
 經濟部商品檢驗局(函) 檢發(八十六)三字第 12954 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(檢四件)、檢發處、各分局(均為附件)

主旨：有關貴公司電檢相客檢測實驗室申請本局電檢相客檢測增列認可案，業經實地評鑑結果，同意認可登錄，請查照。

一、查貴公司八十六年二月二十一日本列字號函。
 二、認可登錄範圍如下：

認可代號	認可產品類別	檢查查察人
92-11E-03	(I) 資訊設備	賴輝煌
92-11E-03	(II) 資訊用電腦產品	賴輝煌
92-11E-03	(III) 資訊設備	賴輝煌
92-11E-03	(IV) 資訊設備	賴輝煌
92-11E-03	(V) 資訊設備	賴輝煌

評核標準：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止，評核逾期半年乙次，得視需要增加檢查次數，惟首次檢查作業於六個月內執行。
 四、上開已認可範圍如有變更事項，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論，且貴公司應依規定履行相關之責任與義務。
 六、檢送「商品電檢相客式檢驗報告」格式乙份，請自行印置使用。

局長陳佐鎮
 中華民國國曆八年二月二十一日



ADT CORP. 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 : _____
