



# EMC

## TEST REPORT

REPORT NO. : F88012906A

MODEL NO. : NF 3203 Series, NF 3204 Series,  
NF 3205, NF 3206, LPC2000-LNT,  
LPC2000-LN2, PC-TCV 8076, PC-TC 8075

DATE OF TEST : Aug. 4, 1999

PREPARED FOR: VXL INSTRUMENTS LIMITED CO.

ADDRESS : HOUSE OF EXCELLENCE, NO. 17,  
ELECTRONICS CITY, HOSUR ROAD,  
BANGALORE 561229, INDIA

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION

**NVLAP**<sup>®</sup>

Accredited Laboratory

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

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## 1. CERTIFICATION

Issue Date: Aug. 10, 1999

Product : NETFLASH CARD  
Trade Name : VXL, UNISYS, ESPRIT  
Model No. : NF 3203 Series, NF 3204 Series, NF 3205,  
NF 3206, LPC2000-LNT, LPC2000-LN2,  
PC-TCV 8076, PC-TC 8075  
Applicant : VXL INSTRUMENTS LIMITED CO.  
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 Aug. 4, 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: Kevin Pan, DATE: 8/10/99  
( Kevin Pan )

CHECKED BY: Ariel Hsieh, DATE: 8/10/99  
( Ariel Hsieh )

APPROVED BY: Mike Su, DATE: 8/10/99  
( Mike Su )

**ADVANCE DATA TECHNOLOGY CORPORATION**

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## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Product : NETFLASH CARD  
 Model No. : NF 3203 Series, NF 3204 Series, NF 3205,  
               NF 3206, LPC2000-LNT, LPC2000-LN2,  
               PC-TCV 8076, PC-TC 8075  
 Power Supply Type : DC (from PC)

Note: This report is prepared for Class II Permissive Change. The main changes are as following:

1. Change of model name from the original model: NF 3000 Series to model: NF 3203 Series for the reason of clock trace added and layout redone.
2. Addition of models: NF 3204 Series, NF 3205, NF 3206, LPC2000-LNT, LPC2000-LN2, PC-TCV 8076, PC-TC 8075

The above eight models of EUT differ as following:

- MODEL: NF 3203 Series – VGA + RJ45 connector, brand: VXL
- MODEL: NF 3204 Series – VGA + BNC connector, brand: VXL
- MODEL: NF 3205 – RJ45 connector, without VGA, brand: VXL
- MODEL: NF 3206 – BNC connector, without VGA, brand: VXL
- MODEL: LPC2000-LNT: VGA + RJ45 connector, brand: UNISYS
- MODEL: LPC2000-LN2: VGA + BNC connector, brand: UNISYS
- MODEL: PC-TCV 8076: VGA + RJ45 connector, brand: ESPRIT
- MODEL: PC-TC 8075: RJ45 connector, without VGA, brand: ESPRIT

The EUT was tested under the following two test modes and both data of them are recorded in this report separately:

MODE	1	2
MODEL	NF 3203 Series (VGA + RJ45 connector)	NF 3204 Series (VGA + BNC connector)

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-450T	FCC DoC Approved	Nonshielded Power (1.8m)
2.	MONITOR	ADI	PD-959	FCC Doc Approved	Shielded Signal (1.5m) Nonshielded Power (1.8m)
3.	KEYBOARD	FORWARD	FDA-102GA	F4ZDA-104G	Shielded Signal (1.4m)
4.	MODEM	ACEEX	1414	IFAXDM1414	Shielded Signal (1.2m) Nonshielded Power (1.2m)
5.	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded Signal (1.5m)
6.	PRINTER	HP	2225C+	DSI6XU2225	Shielded Signal (1.2m) Nonshielded Power (2.0m)
7.	PERSONAL COMPUTER	IBM	2156-D1N	FCC Doc Approved	Nonshielded Power (1.8m)
8.	MONITOR	ADI	937G	BR8937G	Shielded Signal (1.5m) Nonshielded Power (1.8m)
9.	KEYBOARD	FORWARD	FDA-104GA	F4ZDA-104G	Shielded Signal (1.4m)
10.	MOUSE	DEXIN	A2P800A	NIYA2P800A	Shielded Signal (1.5m)
11.	LAN CARD	ACER	6311	G86311-K	NA

Note: The EUT was installed into support unit 1. Support units 1-6 acted as Server PC and communicated with support units 7-11, which acted as HOST PC and systems of communication partner via an UTP cable (10m) for MODE 1, and via a BNC cable (10m) for MODE 2.

## 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 7, 2000
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 8, 2000
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 7, 2000
EMCO-L.I.S.N.	3825/2	9204-1964	July 7, 2000
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	8594E	3520A01861	Feb. 08, 2000
HP Preamplifier	8447D	2944A08118	Dec. 28, 1999
HP Preamplifier	8347A	3307A01088	Sept. 9, 1999
ROHDE & SCHWARZ TEST RECEIVER	ESVS 10	840241/010	Sept. 10, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 1999
CHASE BILOG Antenna	CBL6111A	1079	July 17, 2000
EMCO Double Ridged Guide Antenna	3115	9312-4192	April 5, 2000
CHANCE Turn Table	U200	9701	NA
CHANCE Tower	AT-100	CM-A003	NA
Open Field Test Site	Site 3	ADT-R03	July 16, 2000

Note: 1. The measurement uncertainty is less than +/- 3.0dB, 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 - 1000 MHz (Radiated Emission)  
 Input Voltage : 120 Vac, 60 Hz  
 Temperature : 25 °C  
 Humidity : 73 %  
 Atmospheric Pressure : 985 mbar

TEST RESULT	Remarks
FAIL	Minimum passing margin of conducted emission: -13.8 dB at 0.543 MHz
	Minimum passing margin of radiated emission: -3.0 dB at 160.07 MHz

### 4.2 EUT OPERATING CONDITION

1. Turn on the power of all equipment.
2. Server PC (with EUT) and HOST PC runs a test program to enable all functions.
3. Server PC transmits messages to and received messages from the HOST PC via the UTP cable connected between EUT and HOST PC. (for MODE 1)
4. Server PC transmits messages to and received messages from the HOST PC via the BNC cable connected between EUT and HOST PC. (for MODE 2)
5. Server PC sends "H" messages to monitor and monitor displays "H" patterns on screen.
6. Server PC sends "H" messages to modem.
7. Server PC sends "H" messages to printer, and then printer prints them on paper.
8. Repeat steps 3-8.



### 4.3 TEST DATA OF CONDUCTED EMISSION (A)

EUT: NETFLASH CARDMODEL: NF 3203 SeriesMODE: 16 dB Bandwidth: 10 kHzPHASE: LINE (L)

Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.159	0.2	40.5	-	40.7	-	65.5	55.5	-24.8	-
0.415	0.2	36.2	-	36.4	-	57.5	47.5	-21.1	-
0.498	0.2	37.0	-	37.2	-	56.0	46.0	-18.8	-
0.543	0.2	41.7	-	41.9	-	56.0	46.0	-14.1	-
0.609	0.4	38.7	-	39.1	-	56.0	46.0	-16.9	-
5.810	0.4	33.5	-	33.9	-	60.0	50.0	-26.1	-

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.

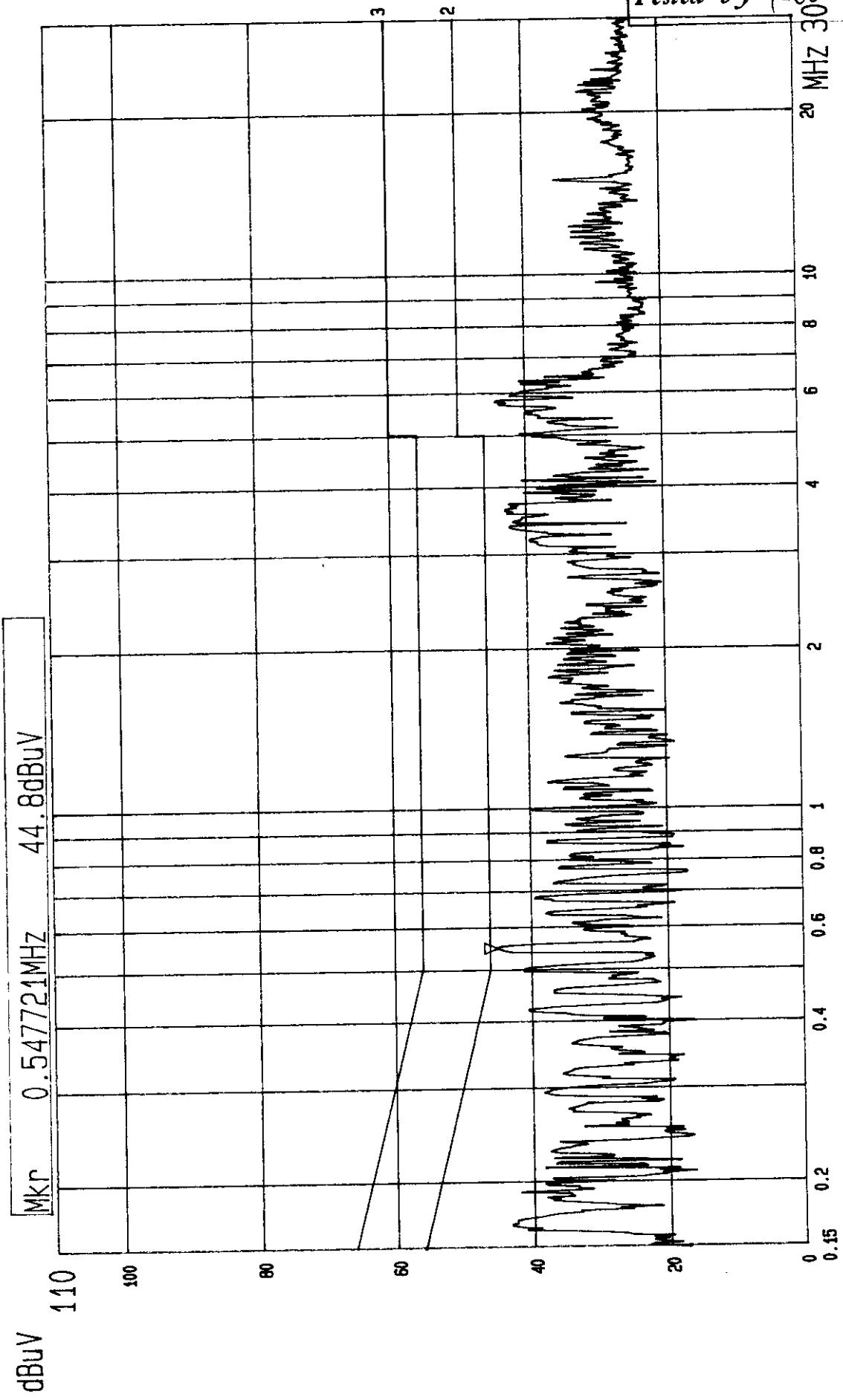
5. Margin value = Emission level - Limit value

6. Emission Level = Correction Factor + Reading Value.

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Tested by Karen Pan



--- Date 04.AUG '99 Time 22:58:44  
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)

MODEL : NF 3203 Series

ADT CORP.  
LISN: L



## TEST DATA OF CONDUCTED EMISSION (A)

EUT: NETFLASH CARDMODEL: NF 3203 SeriesMODE: 16 dB Bandwidth: 10 kHzPHASE: NEUTRAL (N)

Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.159	0.2	40.4	-	40.6	-	65.5	55.5	-24.9	-
0.415	0.2	36.2	-	36.4	-	57.5	47.5	-21.1	-
0.498	0.2	38.1	-	38.3	-	56.0	46.0	-17.7	-
0.543	0.2	42.0	-	42.2	-	56.0	46.0	-13.8	-
0.609	0.4	39.1	-	39.5	-	56.0	46.0	-16.5	-
5.810	0.4	33.6	-	34.0	-	60.0	50.0	-26.0	-

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.

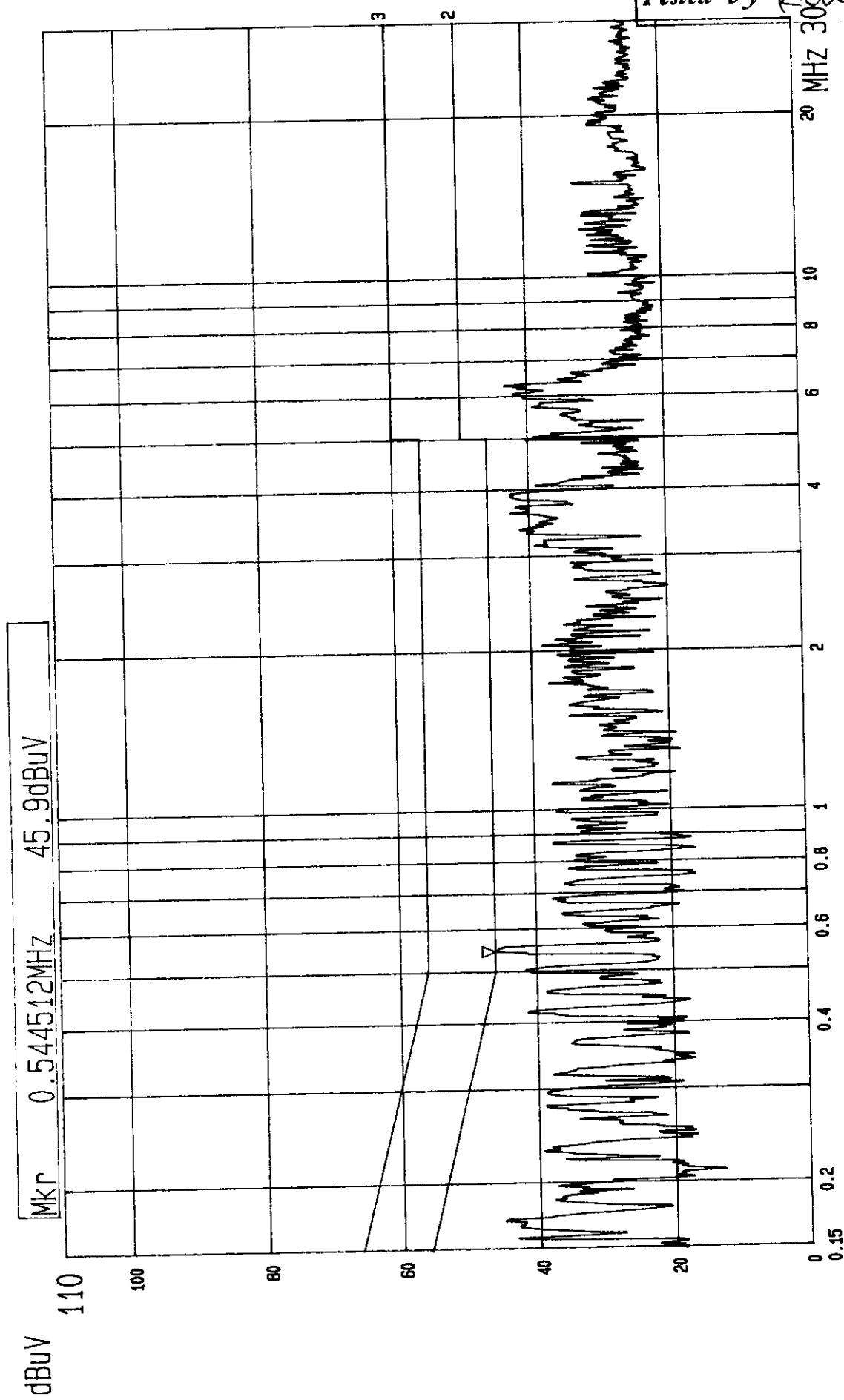
5. Margin value = Emission level - Limit value

6. Emission Level = Correction Factor + Reading Value.

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Tested by *Ken* Pan



!---- Date 04 AUG '99 Time 23:01:56  
CISPR 22 CLASS B CONDUCTION TEST (PEAK VALUE)

MODEL : NF 3203 Series

ADT CORP.  
LISN: N



#### 4.4 TEST DATA OF CONDUCTED EMISSION (B)

EUT: NETFLASH CARDMODEL: NF 3204 SeriesMODE: 26 dB Bandwidth: 10 kHzPHASE: LINE (L)

Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.158	0.2	40.6	-	40.8	-	65.6	55.6	-24.8	-
0.225	0.2	33.8	-	34.0	-	62.6	52.6	-28.6	-
0.413	0.2	35.9	-	36.1	-	57.6	47.6	-21.5	-
0.498	0.2	36.9	-	37.1	-	56.0	46.0	-18.9	-
0.544	0.2	41.1	-	41.3	-	56.0	46.0	-14.7	-
5.874	0.4	40.8	-	41.2	-	60.0	50.0	-18.8	-

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.

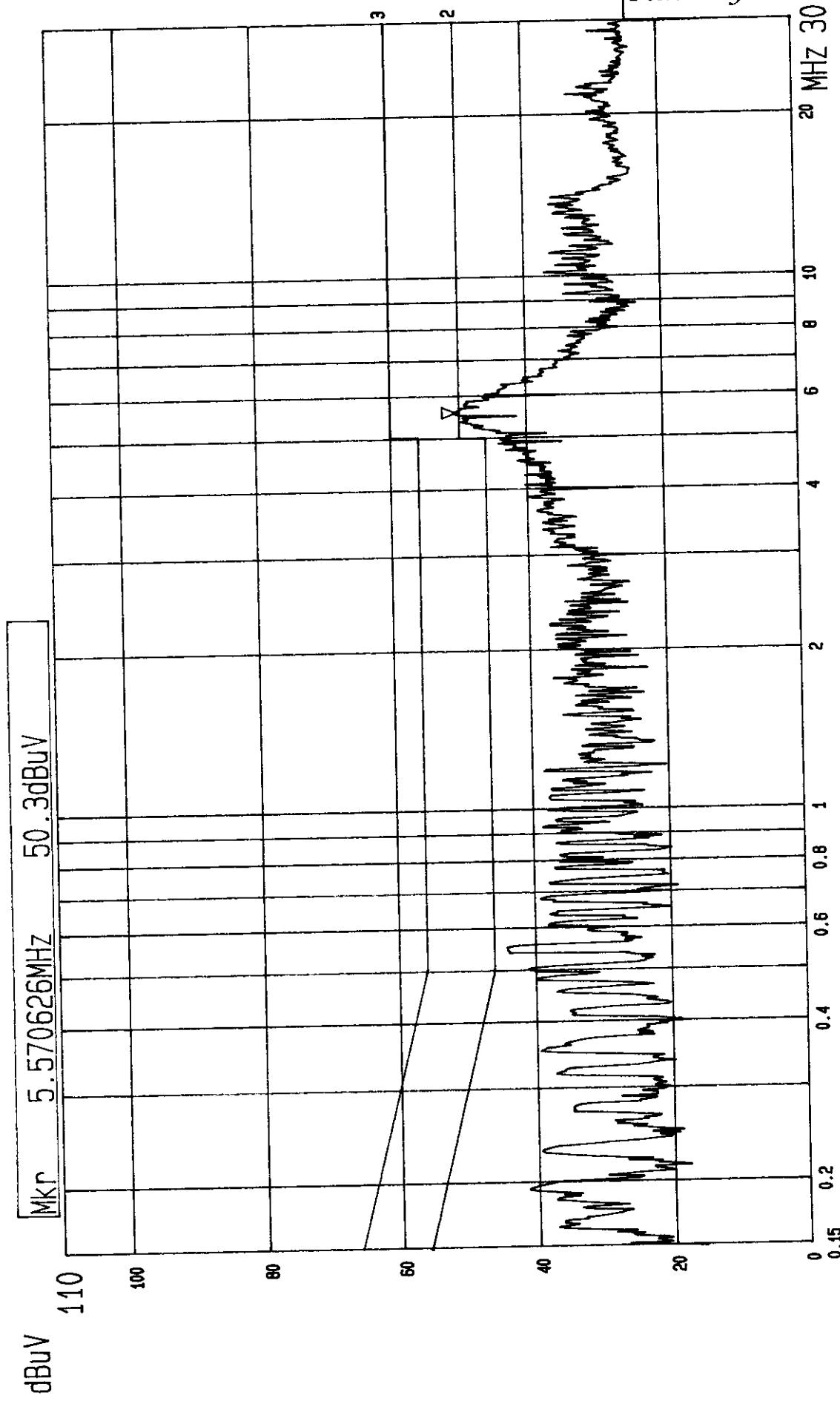
5. Margin value = Emission level - Limit value

6. Emission Level = Correction Factor + Reading Value.

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Tested by Kevin Pan.



|--- Date 04.AUG '99 Time 22:27:26  
EN 55022 CLASS B CONDUCTION TEST (PEAK VALUE)  
MODEL : NF 3204 Series

ADT CORP.  
LISN: L



## TEST DATA OF CONDUCTED EMISSION (B)

EUT: NETFLASH CARDMODEL: NF 3204 SeriesMODE: 26 dB Bandwidth: 10 kHzPHASE: NEUTRAL (N)

Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.158	0.2	40.5	-	40.7	-	65.6	55.6	-24.9	-
0.225	0.2	36.0	-	36.2	-	62.6	52.6	-26.4	-
0.413	0.2	36.1	-	36.3	-	57.6	47.6	-21.3	-
0.498	0.2	38.1	-	38.3	-	56.0	46.0	-17.7	-
0.544	0.2	41.8	-	42.0	-	56.0	46.0	-14.0	-
5.874	0.4	41.5	-	41.9	-	60.0	50.0	-18.1	-

Remarks: 1. \*\*: Undetectable

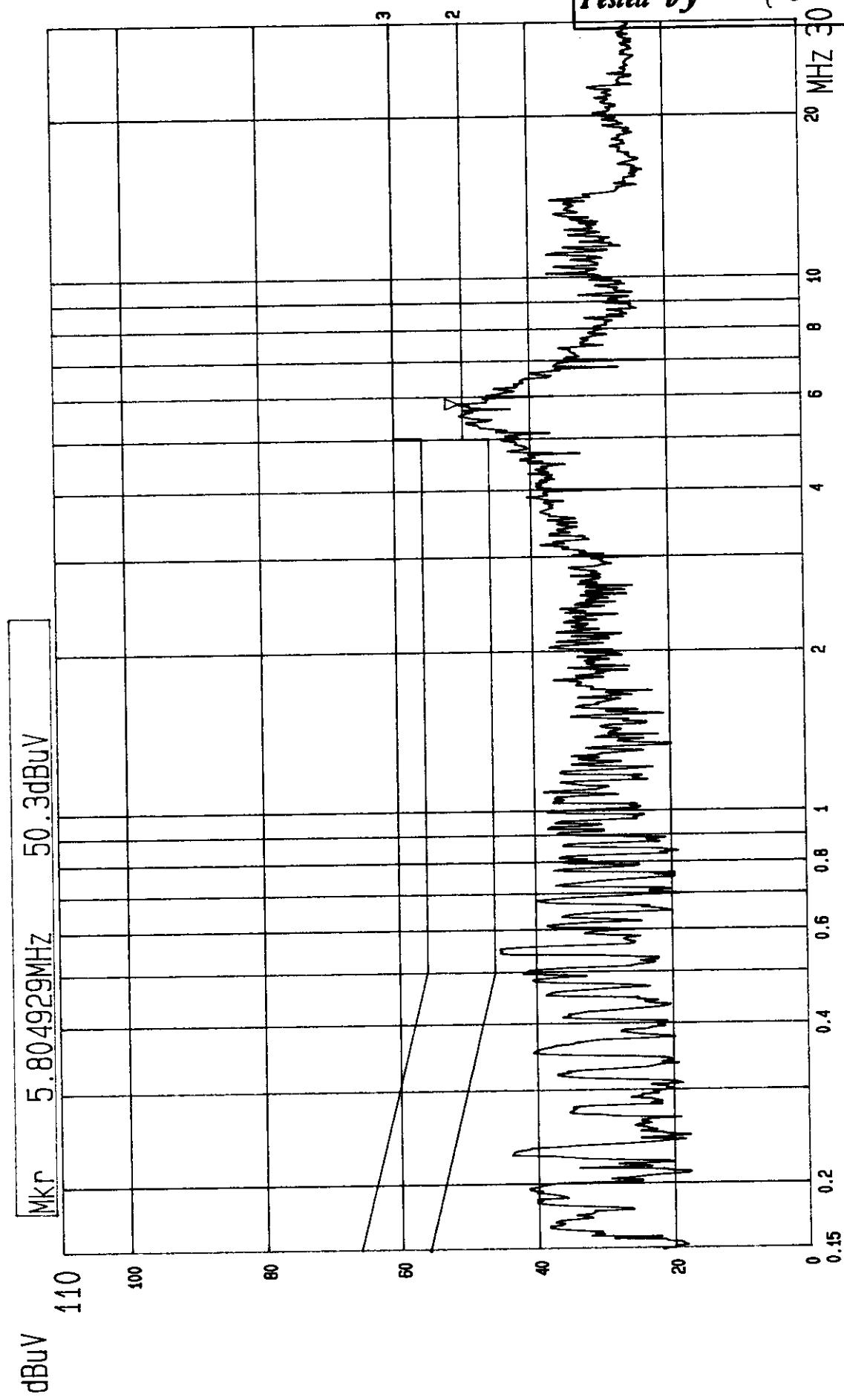
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. -: The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level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

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Tested by

key  
Pan.



1--- Date 04.AUG '99 Time 22:22:46  
EN 55022 CLASS B CONDUCTION TEST (PEAK VALUE)  
MODEL : NF 3204 Series

ADT CORP.  
LISN: N



## 4.5 TEST DATA OF RADIATED EMISSION (A)

EUT: **NETFLASH CARD**MODEL: **NF 3203 Series**MODE: **1**ANT. POLARITY: **Horizontal**DETECTOR FUNCTION: **Quasi-peak**6 dB BANDWIDTH: **120 kHz**FREQUENCY RANGE: **30-1000 MHz**MEASURED 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)
60.37	6.8	10.8	17.6	30.0	-12.4	400	326
110.40	12.1	8.3	20.4	30.0	-9.6	400	71
160.07	12.1	8.7	20.8	30.0	-9.2	400	114
192.02	11.4	10.0	21.4	30.0	-8.6	400	90
209.89	12.2	10.7	22.9	30.0	-7.1	400	101
240.37	13.7	12.1	25.8	37.0	-11.2	400	103
300.08	15.3	11.7	27.0	37.0	-10.0	286	104
310.12	15.7	8.5	24.2	37.0	-12.8	341	174
340.12	16.7	7.4	24.1	37.0	-12.9	329	168
420.12	19.0	8.7	27.7	37.0	-9.3	195	131
500.14	21.1	4.9	26.0	37.0	-11.0	165	126

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 (A)

EUT: NETFLASH CARDMODEL: NF 3203 SeriesMODE: 1ANT. 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)
60.35	6.8	16.6	23.4	30.0	-6.6	100	340
70.43	6.5	19.0	25.5	30.0	-4.5	100	33
110.40	12.1	14.0	26.1	30.0	-3.9	197	280
160.07	12.1	14.9	27.0	30.0	-3.0	100	144
192.02	11.4	13.2	24.6	30.0	-5.4	100	203
201.51	11.8	9.5	21.3	30.0	-8.7	100	203
208.96	12.1	11.0	23.1	30.0	-6.9	100	133
220.08	12.7	11.8	24.5	30.0	-5.5	100	141
300.09	15.3	16.1	31.4	37.0	-5.6	100	147
310.10	15.7	15.2	30.9	37.0	-6.1	164	154
340.11	16.7	11.6	28.3	37.0	-8.7	180	166
420.13	19.0	8.0	27.0	37.0	-10.0	180	160

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



## 4.6 TEST DATA OF RADIATED EMISSION (B)

EUT: NETFLASH CARDMODEL: NF 3204 SeriesMODE: 2ANT. 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)
60.30	6.8	12.2	19.0	30.0	-11.0	400	335
120.05	12.6	12.3	24.9	30.0	-5.1	400	66
180.58	11.1	7.0	18.1	30.0	-11.9	400	316
240.05	13.7	10.2	23.9	37.0	-13.1	400	90
260.08	14.1	5.6	19.7	37.0	-17.3	400	125
300.08	15.3	11.3	26.6	37.0	-10.4	250	111
340.09	16.7	6.9	23.6	37.0	-13.4	285	293
380.11	18.1	7.0	25.1	37.0	-11.9	316	254
420.15	19.0	5.8	24.8	37.0	-12.2	244	253

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 (B)

EUT: NETFLASH CARDMODEL: NF 3204 SeriesMODE: 2ANT. 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)
39.38	13.8	13.1	26.9	30.0	-3.1	100	243
60.36	6.8	16.2	23.0	30.0	-7.0	100	101
70.42	6.5	18.2	24.7	30.0	-5.3	100	310
120.05	12.6	14.0	26.6	30.0	-3.4	100	282
159.81	12.1	10.2	22.3	30.0	-7.7	100	133
240.06	13.7	14.5	28.2	37.0	-8.8	100	149
300.09	15.3	12.4	27.7	37.0	-9.3	100	144
480.13	20.5	7.2	27.7	37.0	-9.3	400	133

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
● 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](mailto:service@mail.adt.com.tw)

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