

APPLICATION FOR CERTIFICATION  
Class II Permissive Change  
On Behalf of  
Top Victory Electronics (Taiwan) Co., Ltd.  
15" LCD Monitor

Model : LM-500

FCC ID : ARSTF1560E

Prepared for : Top Victory Electronics (Taiwan) Co., Ltd.  
18F, 738 Chung-Cheng Rd., Chung-Ho 235,  
Taipei Hsien, Taiwan, R.O.C.

Prepared By : Taiwan Tokin EMC Eng. Corp.  
No. 53-11, Tin-Fu Tsun, Lin-Kou,  
Taipei Hsien, Taiwan, R.O.C.

Tel: (02) 2609-9301, 2609-2133

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Report Number : TTEMC-F20010  
Date of Test : Jan. 17 ~ 19, 2000  
Date of Report : Jan. 26, 2000

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## TEST REPORT CERTIFICATION

(Class II Permissive Change)

Applicant : Top Victory Electronics (Taiwan) Co., Ltd.  
Manufacturer : Top Victory Electronics (Fujian) Co., Ltd.  
FCC ID : ARSTF1560E  
EUT Description : 15" LCD Monitor  
(A) MODEL NO. : LM-500  
(B) SERIAL NO. : N/A  
(C) POWER SUPPLY : 120V AC, 60Hz

Measurement Procedure Used :

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND  
FCC / ANSI C63.4-1992

The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the CISPR 22 Class B limits both radiated and conducted emissions.

The measurement results are contained in this test report and TAIWAN TOKIN EMC ENG. CORP. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Jan. 17 ~ 19, 2000

Prepared by : Monica Chang  
(MONICA CHANG)

Test Engineer : Allen Wang  
(ALLEN WANG)

Approve & Authorized Signer : Jackie Deng  
(JACKIE DENG)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

Description	:	15" LCD Monitor
Model Number	:	LM-500
FCC ID	:	ARSTF1560E
Applicant	:	Top Victory Electronics (Taiwan) Co., Ltd.  18F, 738 Chung-Cheng Rd., Chung-Ho 235, Taipei Hsien, Taiwan, R.O.C.
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd.  Yuan Hong Rd., Sung-Zheng, Hong-Lu, Fuding City, Fujian, China.
LCD Panel #1	:	LG, M/N LM151X2 S/N 1518CP2603660
LCD Panel #2	:	Samsung, M/N LT150X1-051 S/N 2MB4Q812.3
LCD Panel #3	:	Chung Hwa, M/N CLAA150XA03 S/N EA20903D
<b>LCD Panel #4 (Additional)</b>	:	<b>Hyundai, M/N HT15X11-100</b>
Data Cable	:	Shielded, Undetachable, 1.5m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m
Data of Receipt of Sample	:	Jan. 10, 2000
Date of Test	:	Jan. 17 ~ 19, 2000

### Remark :

This EUT is a modified version of original FCC ID ARSTF1560E.  
The difference is to add a LCD Panel (Hyundai, M/N HT15X11-100).

## 1.2. Tested Supporting System Details

### 1.2.1. PERSONAL COMPUTER

Mother Board	:	ASUS, M/N P5A FCC ID. By DoC
CPU	:	AMD K6-2 266MHz
Case	:	Enlight, M/N EN7105C
S.P.S.	:	SPI, M/N FSP250-61GT S/N W13562640
Floppy Driver 3.5"	:	Mitsumi, M/N D353M3
Hard Disk Driver	:	Seagate, M/N ST34321A S/N VTH99025
VGA Card	:	ELSA, M/N Gloria-Synergy FCC ID KJGP2EASY
Power Cord	:	Non-Shielded, Detachable, 1.8m

### 1.2.2. KEYBOARD

Model Number	:	5121
Serial Number	:	J83300819
FCC ID	:	E5XKBM104M10UC
Manufacturer	:	Behavior Tech Computer Corp.
Data Cable	:	Shielded, Undetachable, 1.0m

### 1.2.3. PRINTER

Model Number	:	2225C
Serial Number	:	2615S40752
FCC ID	:	BS46XU2225C
Manufacturer	:	Hewlett Packard
Power Cord	:	Non-Shielded, Undetachable, 1.8m
Data Cable	:	Shielded, Detachable, 1.2m

### 1.2.4. MODEM #1

Model Number	:	DM-1414
Serial Number	:	980034396
FCC ID	:	IFAXDM1414
Manufacturer	:	Aceex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A Non-Shielded, Undetachable, 1.8m

### 1.2.5. MODEM #2

Model Number	:	DM-1414
Serial Number	:	980034395
FCC ID	:	IFAXDM1414
Manufacturer	:	Aceex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A Non-Shielded, Undetachable, 1.8m

## 1.2.6. MOUSE

Model Number	:	M-S35
Serial Number	:	LZA82103138
FCC ID	:	DZL211029
Manufacturer	:	Logitech
Data Cable	:	Non-Shielded, Undetachable, 1.8m

## 1.2.7. USB MOUSE #1

Model Number	:	CREUBB
Serial Number	:	N/A
FCC ID	:	NHM-CREUBE
Manufacturer	:	CRE Technology Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

## 1.2.8. USB MOUSE #2

Model Number	:	CREUBB
Serial Number	:	N/A
FCC ID	:	NHM-CREUBE
Manufacturer	:	CRE Technology Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

## 1.3. Description of Test Facility

Site Description (No. 1 Open Site)	:	Nov. 23, 1999 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
Name of Firm	:	Taiwan Tokin EMC Eng. Corp.
Site Location	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C
NVLAP Lab Code	:	200077-0

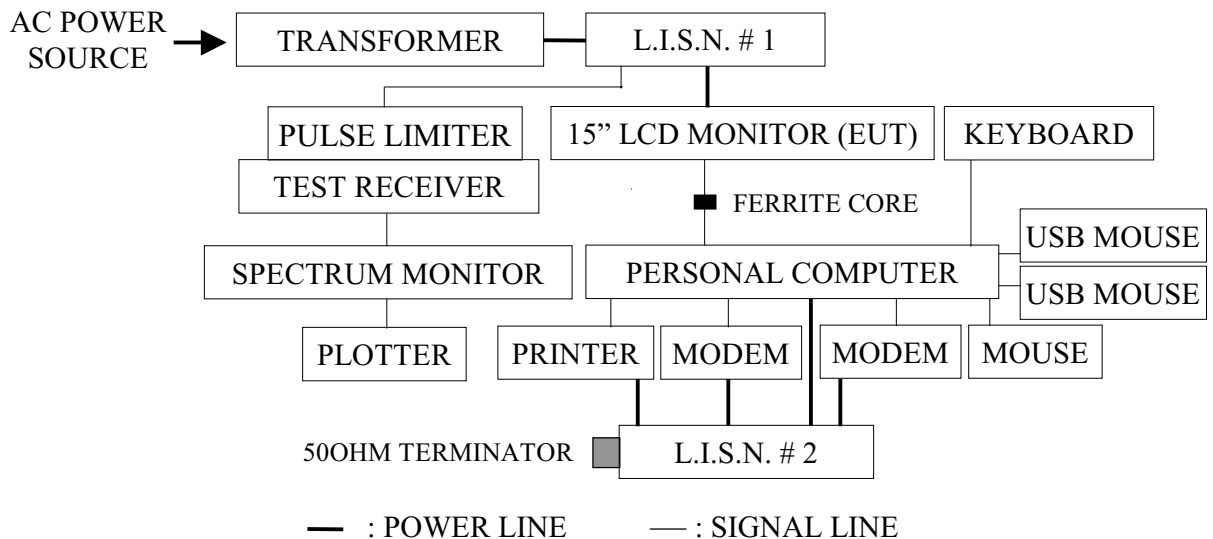
## 2. POWERLINE CONDUCTED TEST

## 2.1. Test Equipment

The following test equipments are used during the power line conducted tests :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESH3	886047/035	Jun.19, 99'	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-881-13	Apr.21,99'	1 Year
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-855-9	Apr.21,99'	1 Year

## 2.2. Block Diagram of Test Setup



### 2.3. Powerline Conducted Emission Limit (CLSPR 22 CLASS B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150KHz ~ 500KHz	66 ~ 56 dB	56 ~ 46 dB
500KHz ~ 5MHz	56 dB	46 dB
5MHz ~ 30MHz	60 dB	50 dB

REMARKS : RF LINE VOLTAGE (dBuV) = 20 log RF LINE VOLTAGE (uV)

## 2.4. EUT's Configuration during Compliance Measurement

The following equipments were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

### 2.4.1. 15" LCD Monitor (EUT)

Model Number	:	LM-500
FCC ID	:	ARSTF1560E
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd.
CRT	:	Hyundai, M/N HT15X11-100
Data Cable	:	Shielded, Undetachable, 1.5m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

### 2.4.2. Supporting System : As in section 1.2

## 2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 2.2.
- 2.5.2. Turned on the power of all equipments.
- 2.5.3. Personal Computer read data from disk.
- 2.5.4. Personal Computer running the self-test program "Hwin" by windows and sent "H" character to LCD Monitor (EUT) through VGA card, the screen displayed and filled with "H" pattern by EUT's resolution.
- 2.5.5. Personal Computer read data from floppy disk 、Modem and then wrote the data into floppy disk 、Modem.
- 2.5.6. The other peripheral devices were driven and operated in turn during all testing.

## 2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of the R&S Test Receiver ESH3 was set at 10KHz.

The frequency range from 150KHz to 30MHz was checked.

Two kinds of horizontal working frequency and display pattern were investigated during pre-scanning and report the worst mode (60KHz/1024\*768, EUT power to L.I.S.N.) in the section 2.8., the others test data are attached within Appendix I.

The detail of test modes are as follows :

- (1) 31.5KHz (640\*480, 60Hz)
- (2) 60KHz (1024\*768, 75Hz)

## 2.7. Test Results

**PASSED.** Please refer to the following pages.

## 2.8. Line Conducted RF Voltage Measurement Results

The frequency range from 150KHz to 30 MHz was investigated.  
All emissions not reported below are too low against the prescribed limits.

Date of Test : Jan. 17, 2000 Temperature : 18 °C

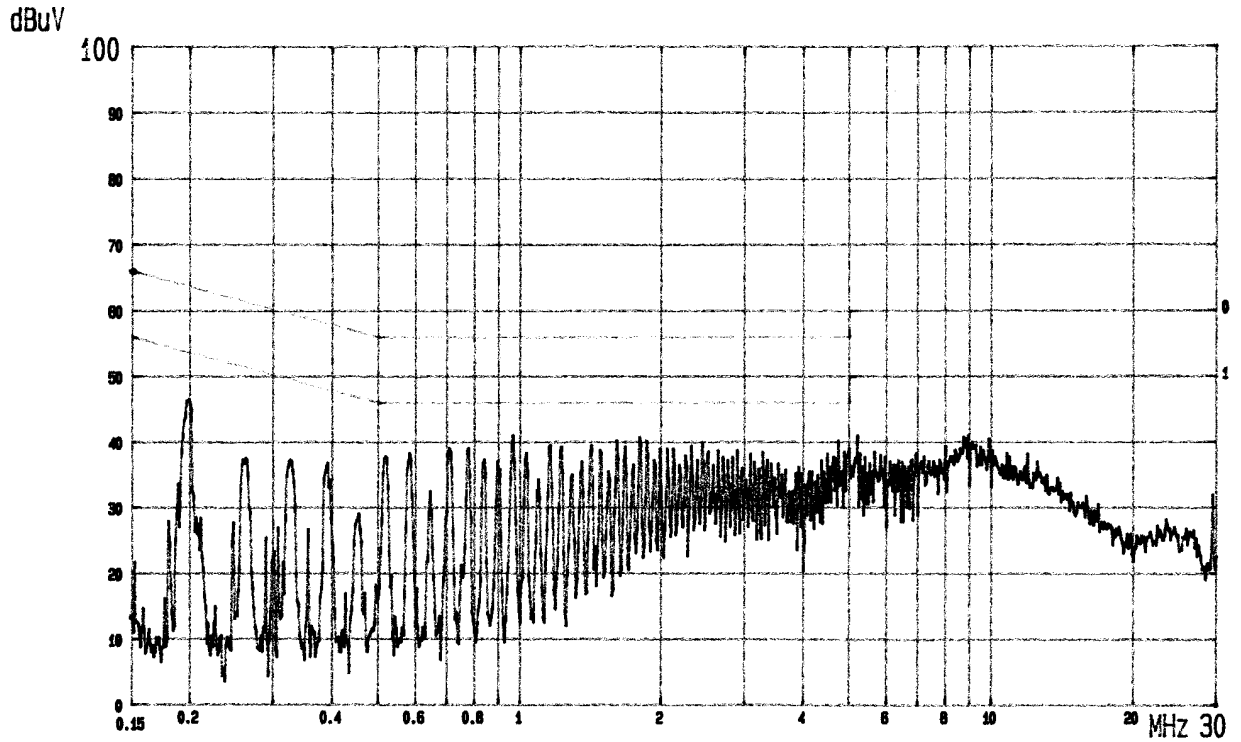
EUT : 15" LCD Monitor Humidity : 66 %

Test Mode : 60KHz, 1024\*768, 75Hz

Frequency (MHz)	Factor dB	Reading (dBuV)				Measurement (dBuV)				Limits (dBuV)	
		Phase A Neutral		Phase B Live		Phase A Neutral		Phase B Live			
		Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average		
0.1919	0.4	*	*	44.7	29.6	*	*	45.1	30.0	64.0	54.0
0.1925	0.4	45.5	30.3	*	*	45.9	30.7	*	*	63.8	53.8
0.5138	0.5	*	*	36.6	34.1	*	*	37.1	34.6	56.0	46.0
0.5766	0.5	37.5	35.4	*	*	38.0	35.9	*	*	56.0	46.0
0.7059	0.5	*	*	38.2	34.1	*	*	38.7	34.6	56.0	46.0
0.9607	0.5	40.0	36.3	*	*	40.5	36.8	*	*	56.0	46.0
0.9630	0.5	*	*	39.9	36.1	*	*	40.4	36.6	56.0	46.0
1.7980	0.5	37.3	33.0	*	*	37.8	33.5	*	*	56.0	46.0
3.5319	0.5	*	*	37.7	31.4	*	*	38.2	31.9	56.0	46.0
4.7444	0.8	38.5	31.4	*	*	39.3	32.2	*	*	56.0	46.0
8.7848	0.8	38.4	33.9	*	*	39.2	34.7	*	*	60.	50.0
8.8599	0.8	*	*	37.3	33.5	*	*	38.1	34.3	60.0	50.0

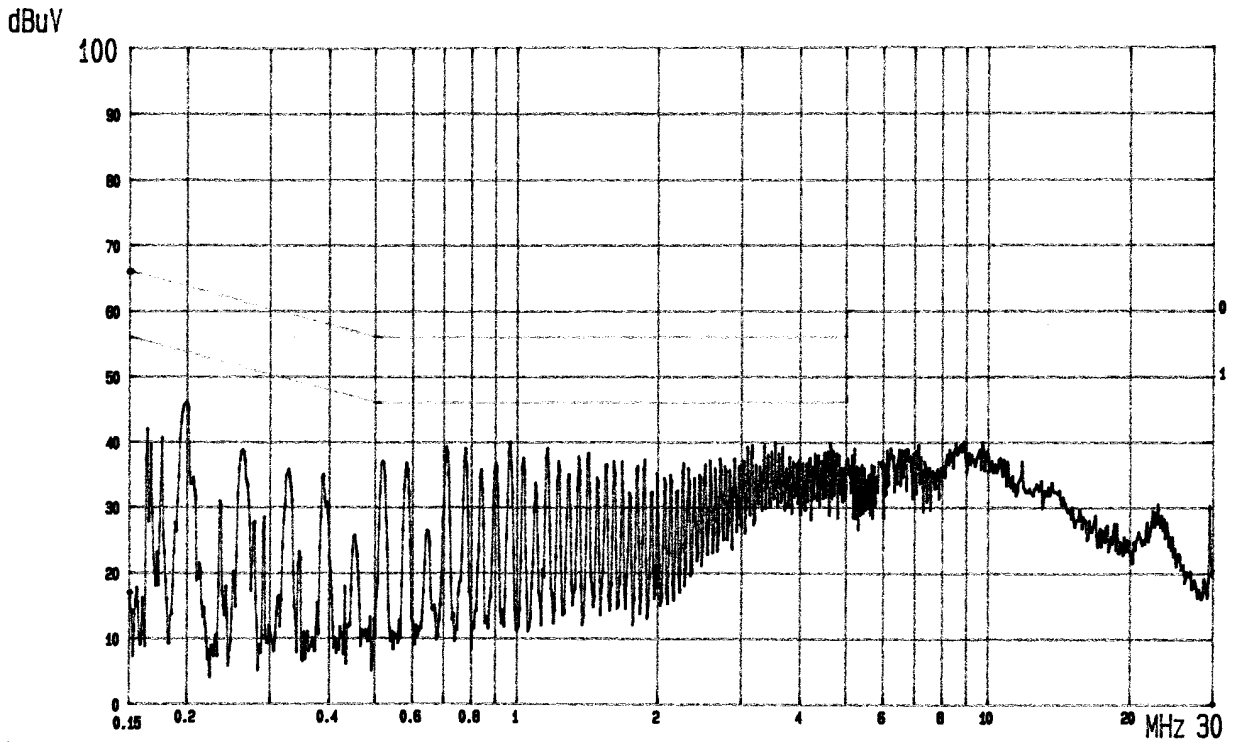
Remark: 1. "\*" means the emission level is undetectable.

2. Factor = Insertion Loss + Cable Loss



TOP VICTORY EUT: LCD MONITOR M/N: LM-500  
 LINE: VA. MEMO: 60 KHz (1024\*768/75Hz)

120V/60Hz PAGE: 02.  
 (PEAK VALUE) TTEMC.



TOP VICTORY EUT: LCD MONITOR M/N: LM-500  
 LINE: VB. MEMO: 60 KHz (1024\*768/75Hz)

120V/60Hz PAGE: 01.  
 (PEAK VALUE) TTEMC.

### 3. RADIATED EMISSION TEST

#### 3.1. Test Equipment

The following test equipments are used during the radiated emission tests :

##### 3.1.1. For Anechoic Chamber

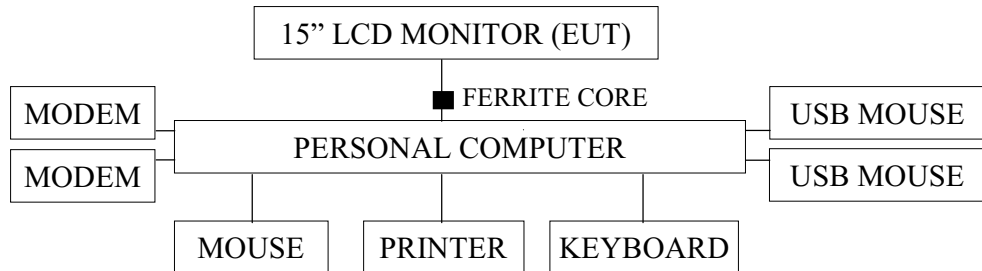
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8590L	3710A01838	Jul.16, 99'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	Dec.04, 99'	1 Year
3.	Broadband Antenna	Schwarzbeck	BBA 9106	A3L	Dec.04, 99'	1 Year
4.	Broadband Antenna	Schwarzbeck	UHALP 9107	A3H	Dec.04, 99'	1 Year

##### 3.1.2. For No. 1 Open Site

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde&Schwarz	ESVP	893202/001	May 13, 99'	1 Year
2.	Broadband Antenna	Schwarzbeck	BBA9106	A1L	Feb.02, 99'	1 Year
3.	Broadband Antenna	Chase	UPA6109	1039	Feb.02, 99'	1 Year

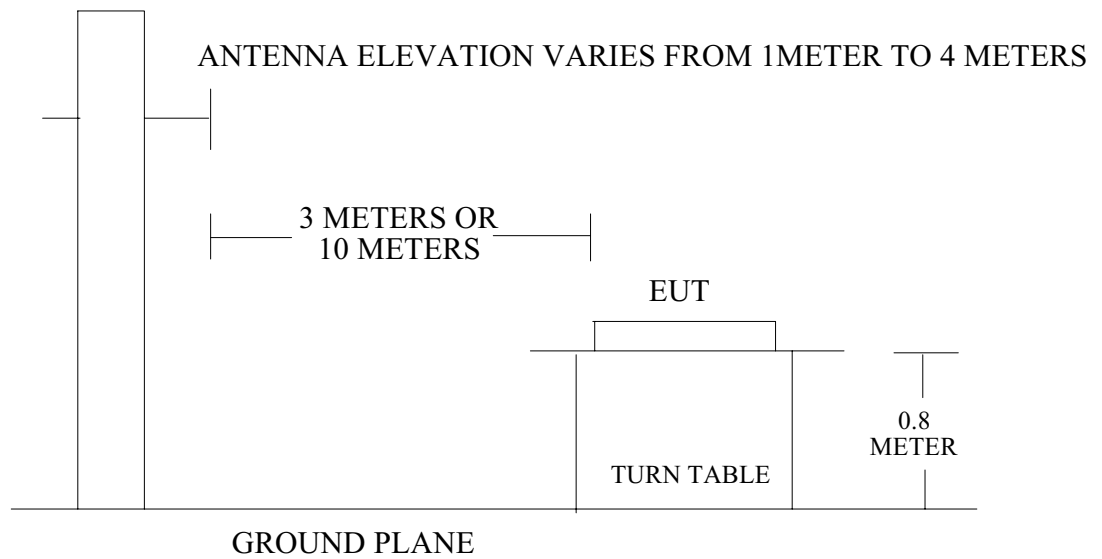
#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block Diagram of connection between EUT and simulators



### 3.2.2. Anechoic Chamber (3M) & Open Field Test Site (10M) Setup Diagram

#### ANTENNA TOWER



### 3.3. Radiation Limit (CLSPR 22 CLASS B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBuV/m)
30 ~ 230	10 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)

- Note :
- (1) The tighter limit shall apply at the edge between two frequency bands.
  - (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.
  - (3) Inside the ( ) is 3 meters limits.

### 3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were same as those used in conducted measurement. Please refer to 2.4.

### 3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5.

### 3.6. Test Procedure

The EUT and its simulators were placed on a turn table which is 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT is set 10 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-1992 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVP was set at 120KHz.

The frequency range from 30MHz to 1000MHz was checked.

The following operating conditions were measured within Anechoic Chamber and all the scanning waveform were attached within Appendix II, which include :

- (3) 31.5KHz (640\*480, 60Hz)
- (4) 60KHz (1024\*768, 75Hz)

Finally, remeasured the worst mode (60KHz, 1024\*768/75Hz) operating situation at No. 1 Open Field Test Site and all the test results were listed in section 3.8.

### 3.7. Test Results

**PASSED.** All the test results are listed in the following pages.

### 3.8. Radiated Emission Measurement Results

The frequency spectrum from 30 MHz to 1000MHz is investigated. All the emissions not report below are too low against the CISPR 22 Class B limit.

Date of Test : Jan. 19, 2000 Temperature : 12 °C  
 EUT : 15" LCD Monitor Humidity : 79 %  
 Test Mode : 60KHz / 1024\*768, 75Hz

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
108.279	17.13	2.40	-2.30	17.23	30.00	12.77
137.810	20.30	2.59	-3.50	19.39	30.00	10.61
157.503	20.79	2.81	-2.30	21.30	30.00	8.70
206.715	22.43	3.50	-2.81	23.12	30.00	6.88
216.560	22.62	3.55	-2.31	23.86	30.00	6.14
* <b>240.157</b>	<b>22.93</b>	<b>3.67</b>	<b>4.70</b>	<b>31.30</b>	<b>37.00</b>	<b>5.70</b>
295.300	24.64	4.37	-2.39	26.62	37.00	10.38
364.199	14.63	4.54	12.00	31.17	37.00	5.83
374.043	14.65	4.59	7.70	26.94	37.00	10.06
423.271	15.77	5.16	6.60	27.53	37.00	9.47
442.936	16.50	5.03	5.50	27.03	37.00	9.97
472.474	17.00	5.23	5.50	27.73	37.00	9.27
501.994	17.20	5.35	0.79	23.34	37.00	13.66
551.224	19.17	5.72	2.70	27.59	37.00	9.41
580.763	19.17	5.72	3.90	28.79	37.00	8.21
659.514	20.00	6.32	-0.20	26.12	37.00	10.88

- Remark :
1. All readings are Quasi-Peak values.
  2. The worst emission was detected at 240.157MHz with corrected signal level of 31.30dBuV/m (limit is 37dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 235° .
  3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Jan. 19, 2000 Temperature : 12 °C

EUT : 15" LCD Monitor Humidity : 79 %

Test Mode : 60KHz / 1024\*768, 75Hz

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level			Margin dB
	Factor dB/m	Loss dB	Vertical dBuV	Vertical dBuV/m	Limits dBuV/m		
49.230	16.55	1.83	2.50	20.88	30.00	9.12	
54.153	15.98	1.83	0.60	18.41	30.00	11.59	
59.069	14.19	1.96	2.80	18.95	30.00	11.05	
108.279	16.66	2.40	1.20	20.26	30.00	9.74	
137.807	18.80	2.59	-3.40	17.99	30.00	12.01	
157.495	21.74	2.81	-2.70	21.85	30.00	8.15	
* 206.706	21.45	3.50	-2.40	22.55	30.00	7.45	
255.974	22.95	3.93	0.80	27.68	37.00	9.32	
344.511	14.86	4.47	3.70	23.03	37.00	13.97	
364.194	15.05	4.54	5.20	24.79	37.00	12.21	
393.728	15.80	4.61	7.10	27.51	37.00	9.49	
413.427	15.55	4.85	3.40	23.80	37.00	13.20	
442.943	16.80	5.03	4.80	26.63	37.00	10.37	
447.391	16.81	5.17	2.00	23.98	37.00	13.02	
467.549	16.86	5.31	3.00	25.17	37.00	11.83	
492.159	17.21	5.44	3.50	26.15	37.00	10.85	
531.513	18.30	5.74	3.00	27.04	37.00	9.96	

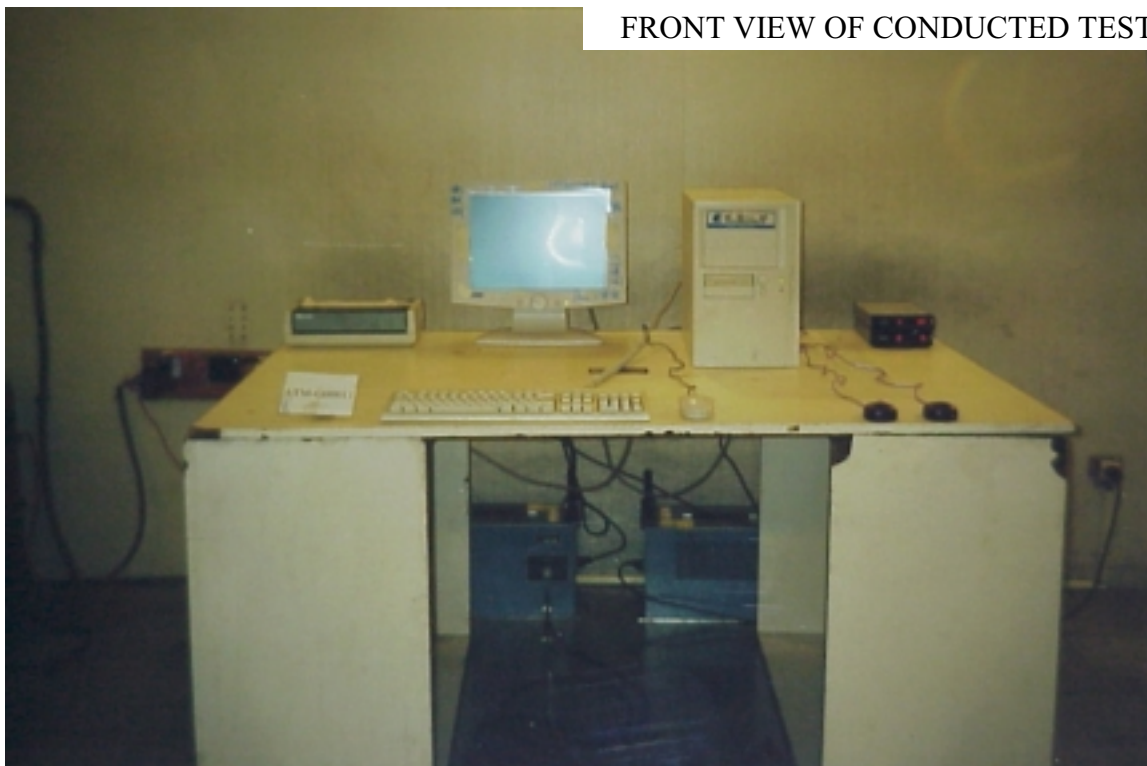
- Remark :
1. All readings are Quasi-Peak values.
  2. The worst emission was detected at 206.706MHz with corrected signal level of 22.55dBuV/m (limit is 30dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 140° .
  3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

#### **4. DEVIATION TO TEST SPECIFICATIONS**

**【NONE】**

## 5. PHOTOGRAPHS

### 5.1. Photos of Powerline Conducted Measurement



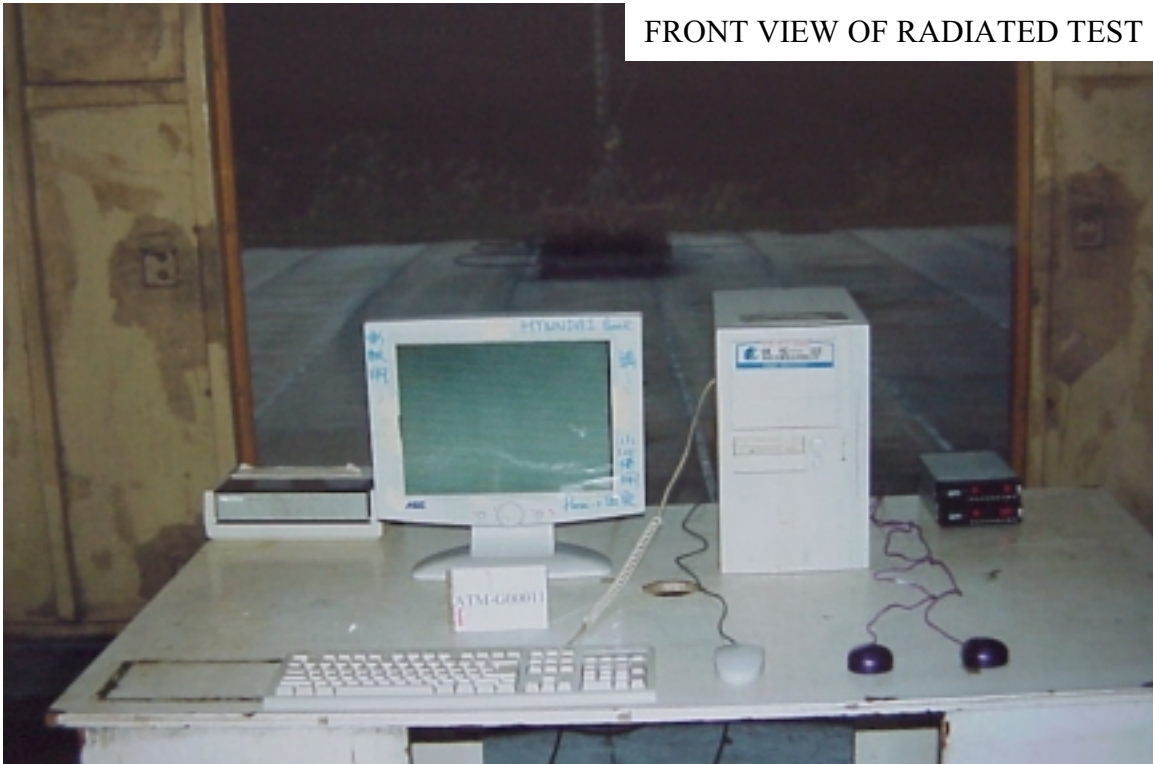
FRONT VIEW OF CONDUCTED TEST



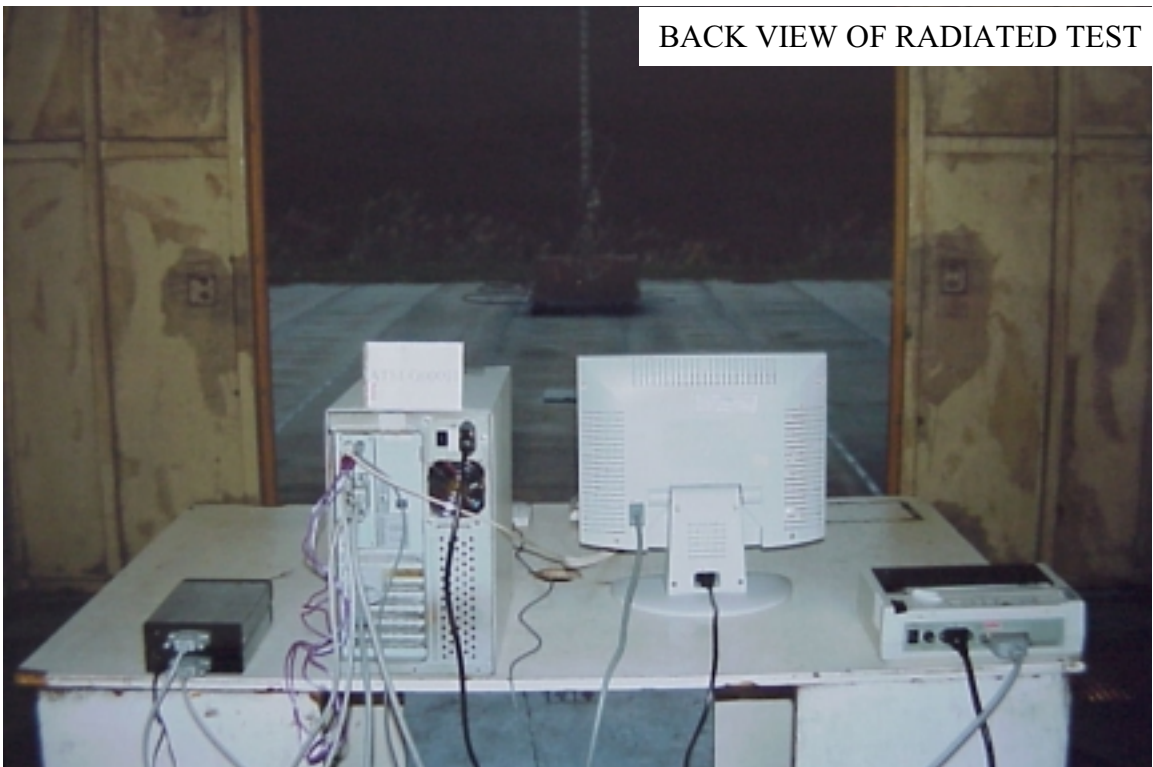
REAR VIEW OF CONDUCTED TEST

## 5.2. Photos of Radiated Measurement at Open Field Test Site

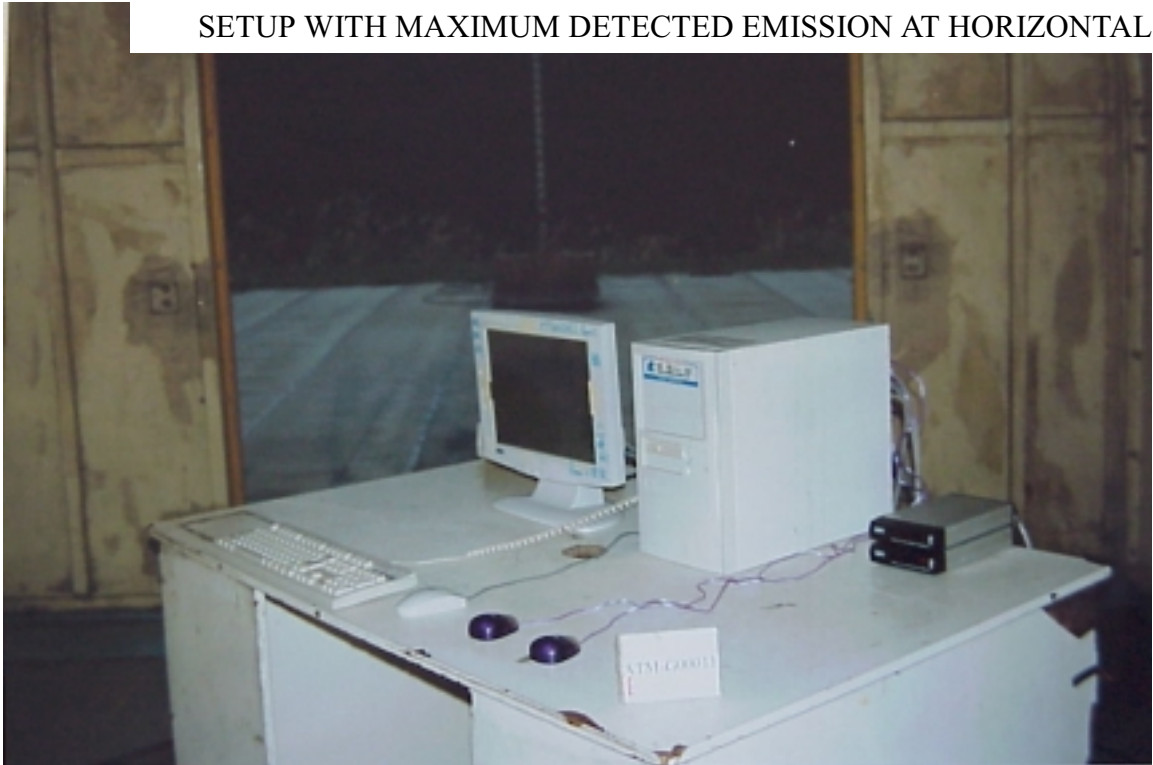
FRONT VIEW OF RADIATED TEST



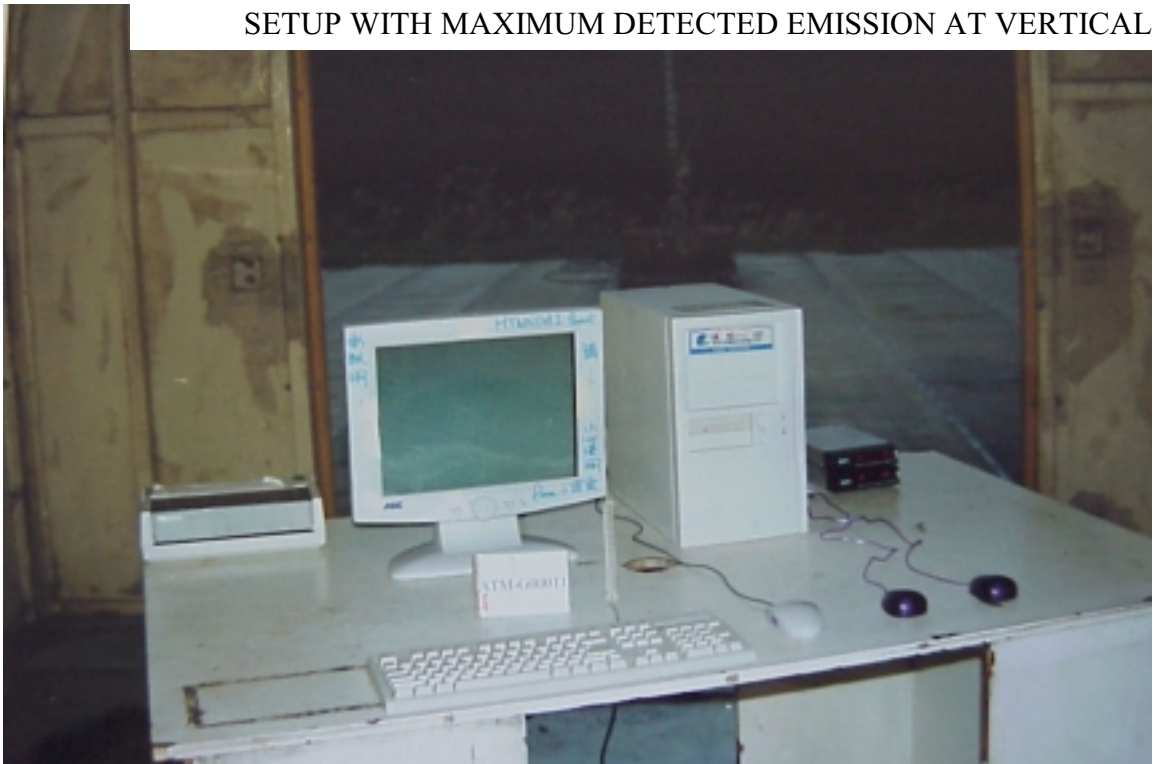
BACK VIEW OF RADIATED TEST



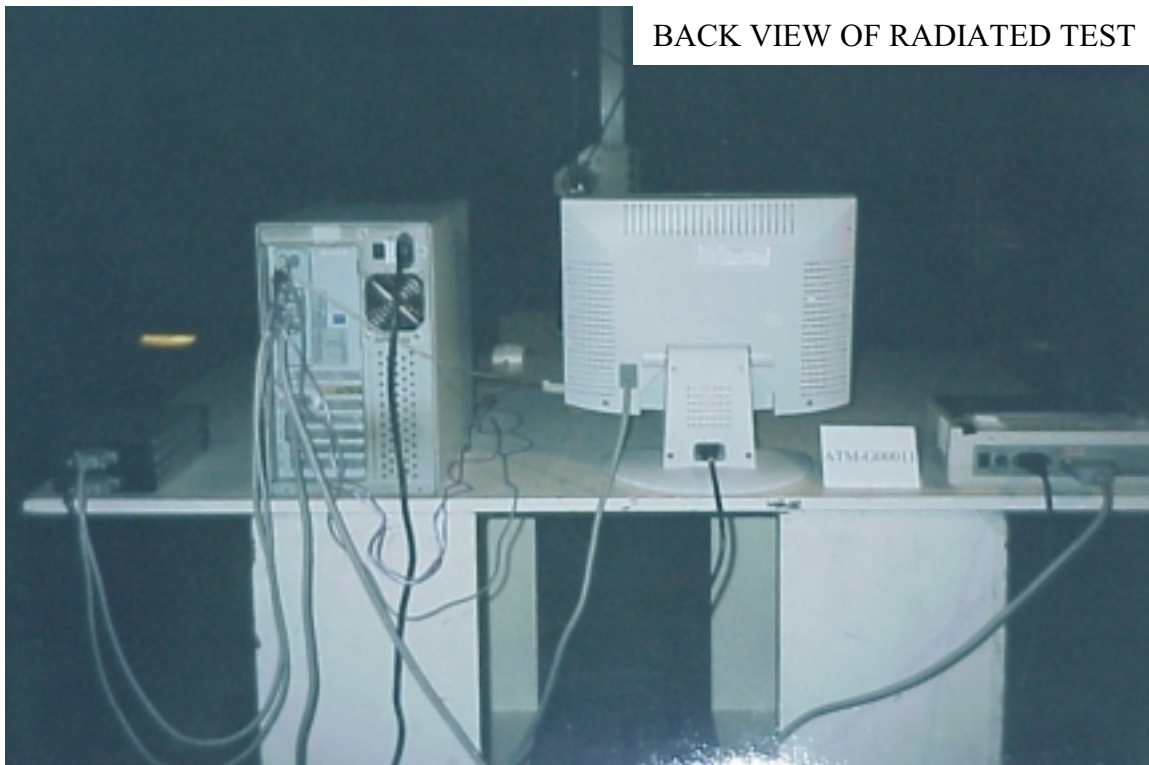
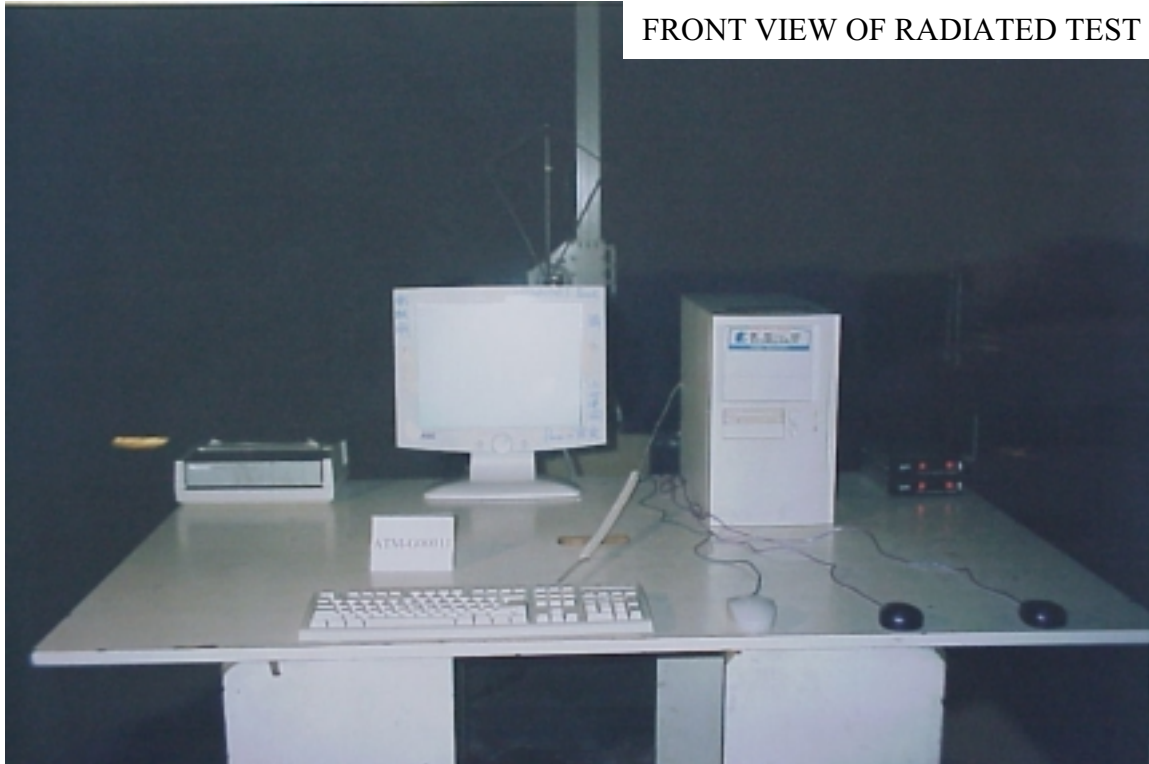
SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL



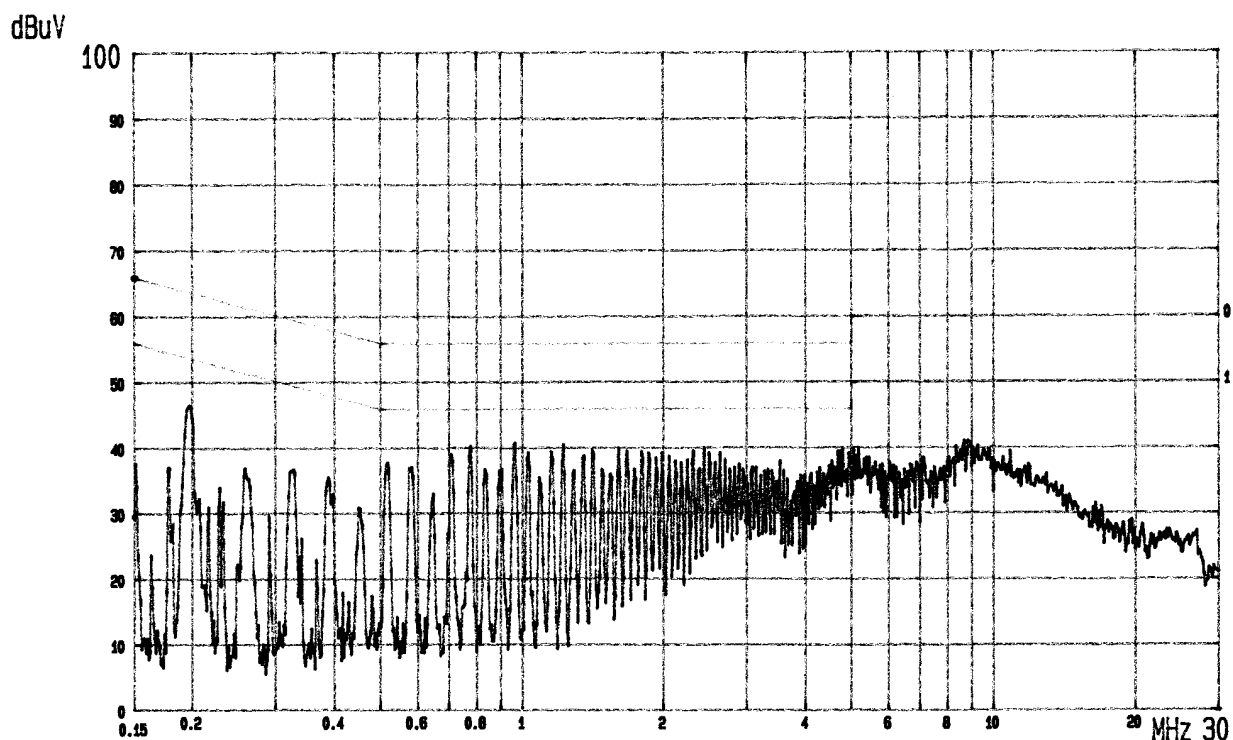
### 5.3. Photos of Radiated Measurement at Anechoic Chamber



# APPENDIX I

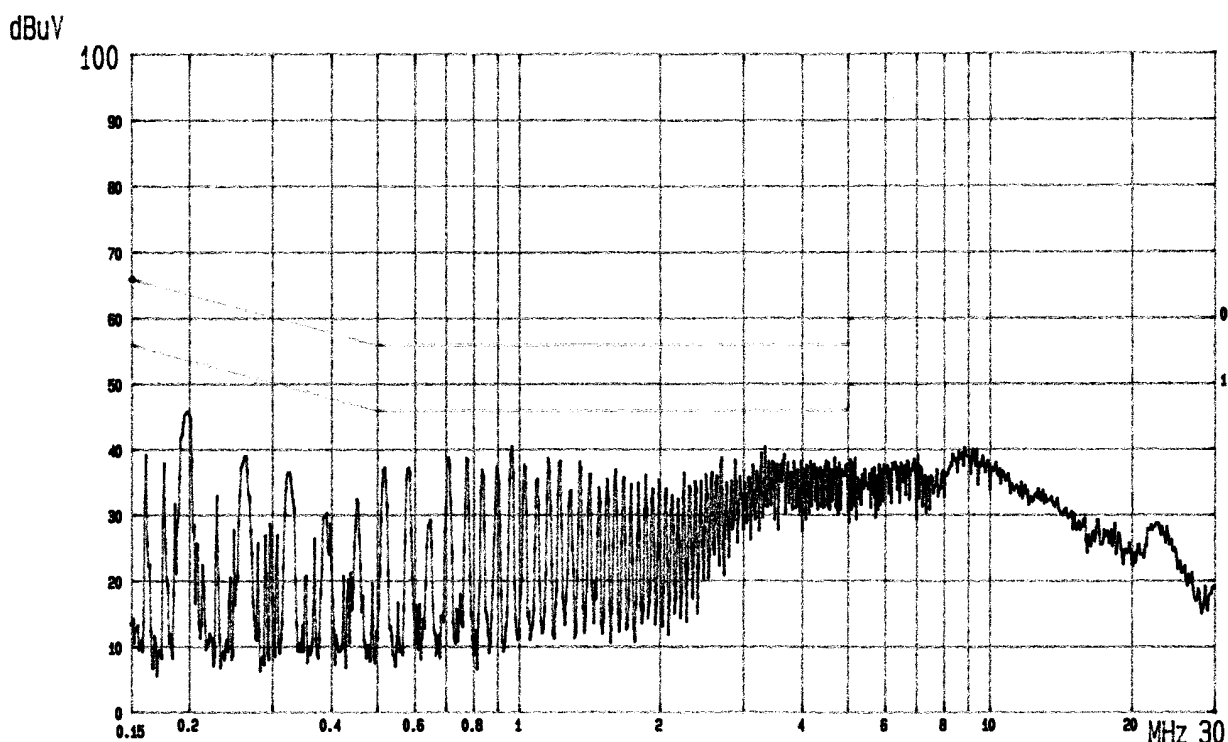
## Conducted Test Data

(Total Page : 1)



TOP VICTORY EUT: LCD MONITOR M/N: LM-500  
LINE: VA. MEMO: 31.5KHz ( 640\*480/60Hz)

120V/60Hz PAGE: 03.  
(PEAK VALUE) TTEMC.



TOP VICTORY EUT: LCD MONITOR M/N: LM-500  
LINE: VB. MEMO: 31.5KHz ( 640\*480/60Hz)

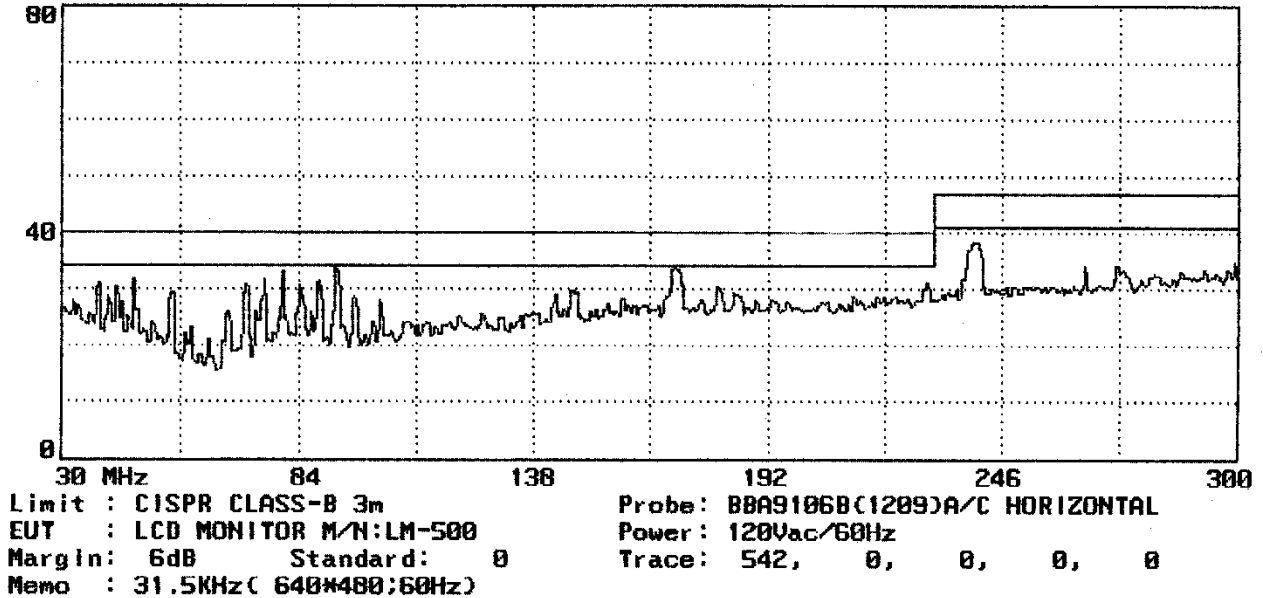
120V/60Hz PAGE: 04.  
(PEAK VALUE) TTEMC.

## APPENDIX II

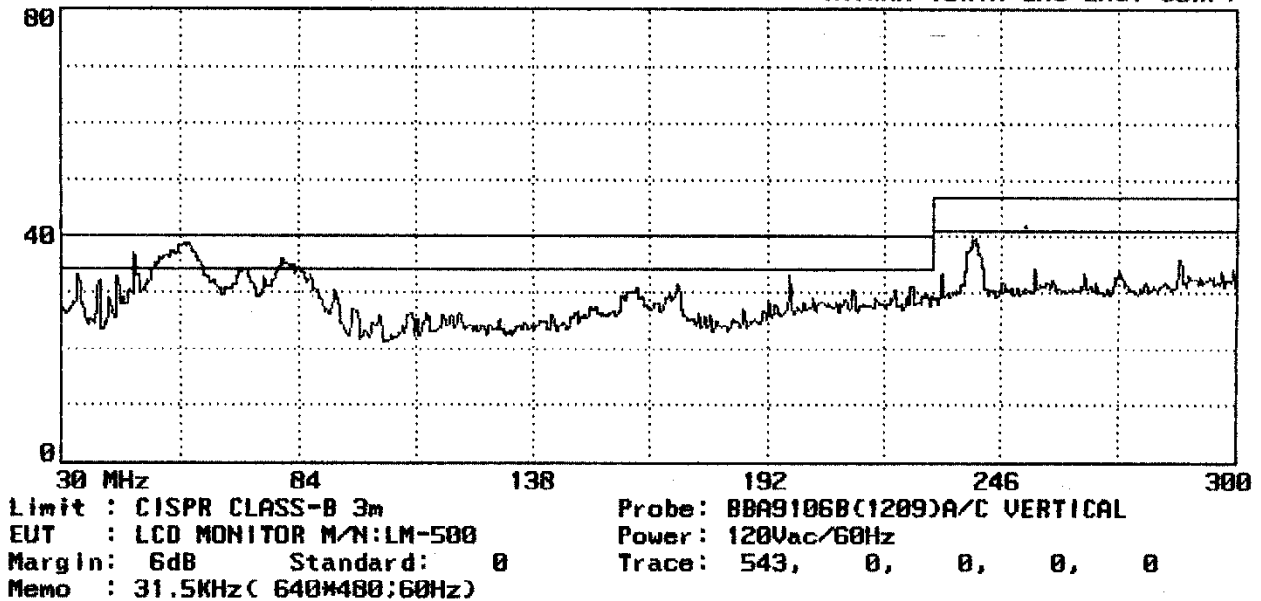
### Radiated Test Data at Anechoic Chamber

(Total Pages : 4)

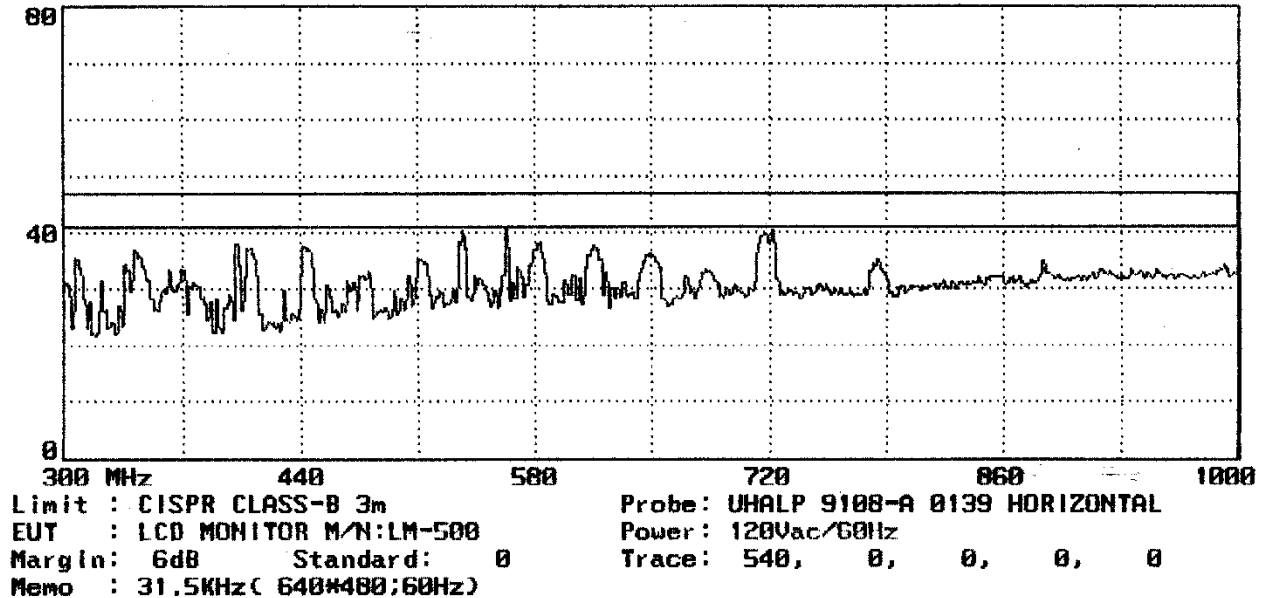
Page#: 542 SP File#: TOPVICT0.EI Date: 01-18-2000 Time: 18:53:34  
 dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



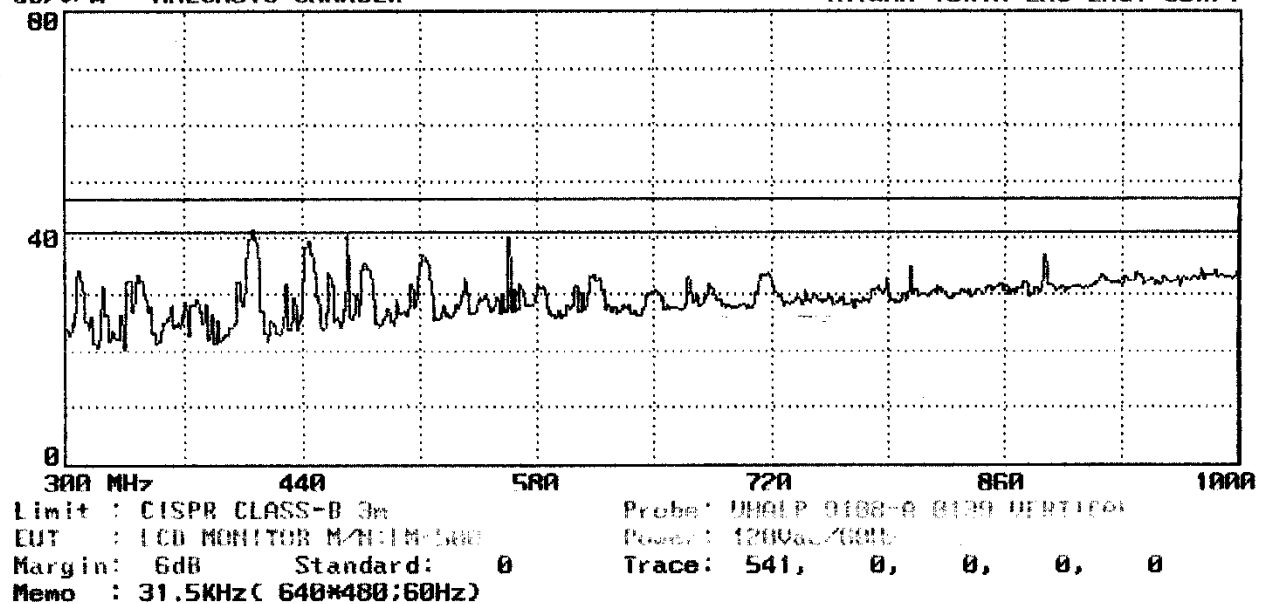
Page#: 543 SP File#: TOPVICT0.EI Date: 01-18-2000 Time: 18:56:59  
 dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



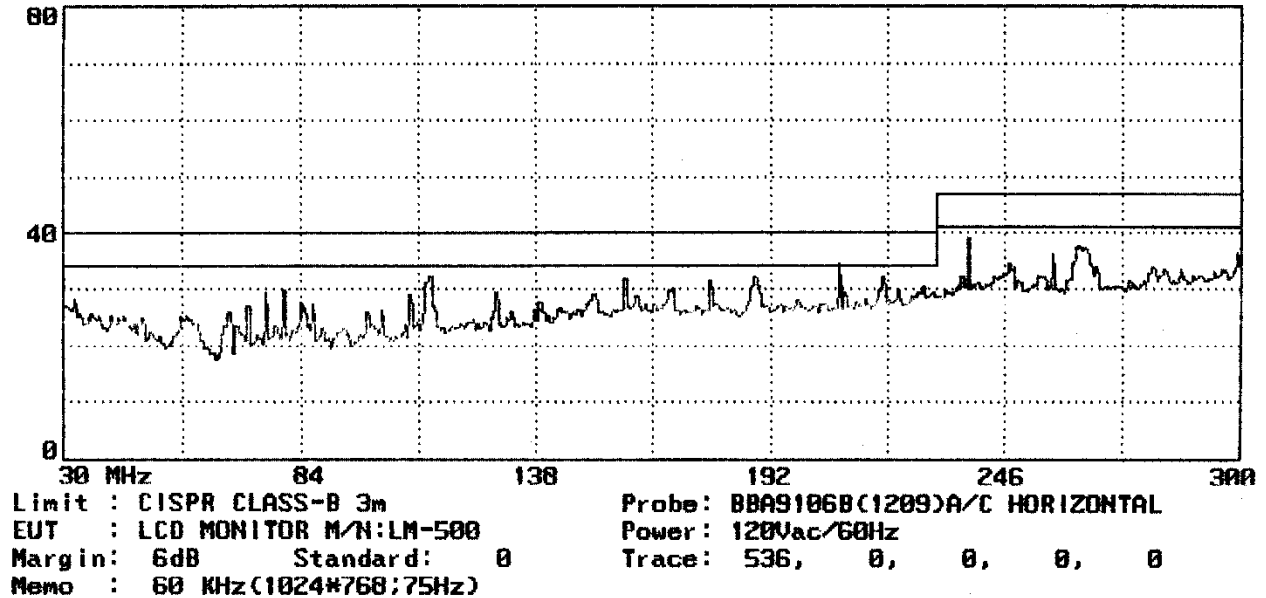
Page#: 540 SP File#: TOPVICT0.E1 Date: 01-18-2000 Time: 18:40:22  
 dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



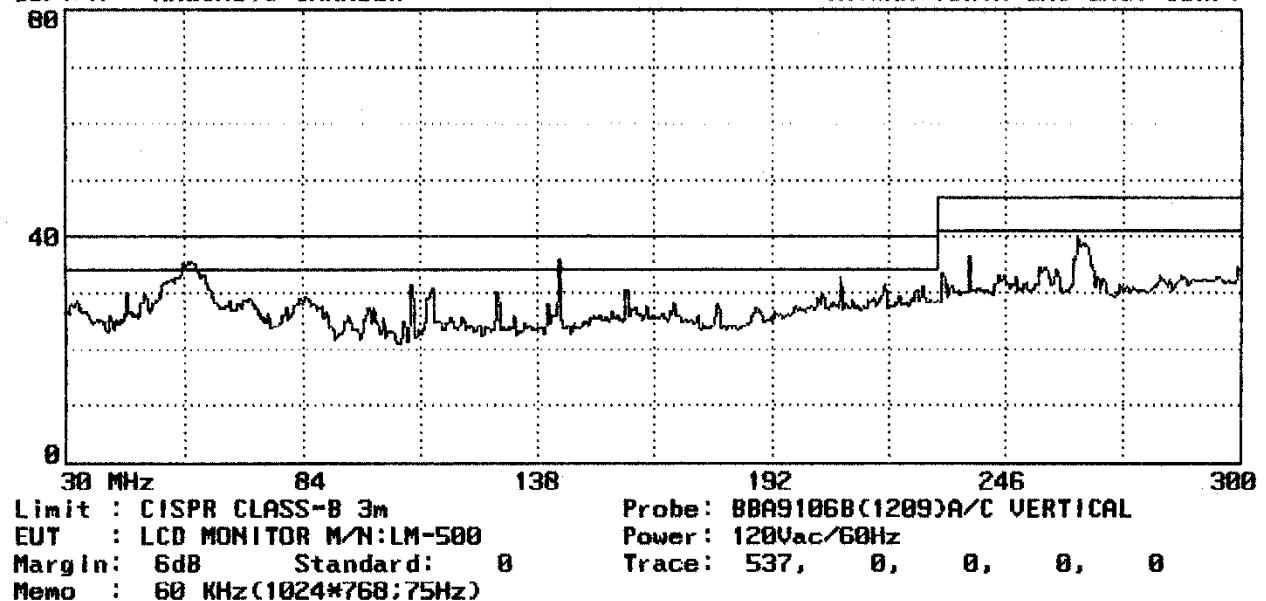
Page#: 541 SP File#: TOPVICT0.E1 Date: 01-18-2000 Time: 18:42:34  
 dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



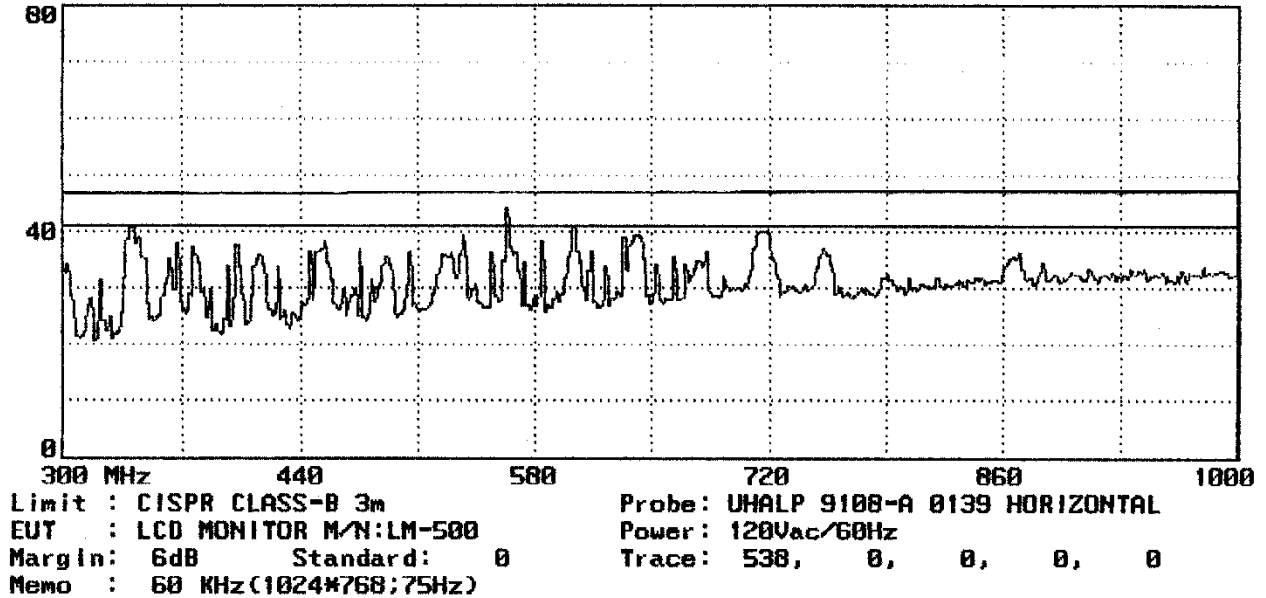
Page#: 536 SP File#: TOPVICT0.E1 Date: 01-18-2000 Time: 18:22:32  
 dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



Page#: 537 SP File#: TOPVICT0.E1 Date: 01-18-2000 Time: 18:26:17  
 dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



Page#: 538 SP File#: TOPVICT0.E1 Date: 01-18-2000 Time: 18:33:09  
dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



Page#: 539 SP File#: TOPVICT0.E1 Date: 01-18-2000 Time: 18:35:51  
dB $\mu$ V/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.

