

APPLICATION FOR CERTIFICATION
On Behalf of
Top Victory Electronics (Taiwan) Co., Ltd.
17" LCD Color Monitor
Model : LM-700
FCC ID : ARSTF1760

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.
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File Number : ATM-G90063
Report Number : TTEMC-F01016
Date of Test : Jan. 31 ~ Mar. 03, 2001
Date of Report : Mar. 14, 2001

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TEST REPORT CERTIFICATION

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.

The test results in this test report are traceable to national or international standards.

Date of Test : Jan. 31 ~ Mar. 03, 2001

Prepared by : —Ritty NI Mar. 20, 2001
(KITTY NI)

Test Engineer : Allen Wang May. 20, 2001
(ALLEN WANG)

Approve & Authorized Signer:

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : 17" LCD Color Monitor
 Model Number : LM-700
 Serial Number : N/A
 FCC ID : ARSTF1760
 Applicant : Top Victory Electronics (Taiwan) Co., Ltd.
 18F, 738 Chung-Cheng Rd., Chung-Ho 235
 Taiwan, R.O.C.
 Manufacturer #1 : Top Victory Electronics (Fujian) Co., Ltd.
 Yuan Hong Road, Shang-Lu Fuqing City,
 Fujian, China
 Manufacturer #2 : Beijing Orient Top Victory Electronics Co., Ltd.
 No. 10, Jiu Xian Qiao Rd., Chao Yang District,
 Beijing, China.
 LCD Panel : # 1 Chi Mei, M/N M170E1
 # 2 Chi Mei, M/N M170E1
 # 3 Unipac, M/N UN170E01
 (The # 1 & # 2 LCD Panel have the same model
 number, the difference is PCB layout different.)
 Power Adapter : Chi, M/N CH-1205
 I/P: 100-240Vac, 47-63Hz, 1.5A (Max.)
 O/P: DC 12V, 5A, 60W
 Cable: Shielded, Undetachable, 0.7m
 Bonded a ferrite core
 FCC ID by FCC DoC
 Data Cable : Shielded, Undetachable, 1.5m
 Bonded a ferrite core
 Power Cord : Non-Shielded, Detachable, 1.8m
 Date of Receipt of Sample : Jan. 16, 2001
 Date of Test : Jan. 31 ~ Mar. 0.3, 2001

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Model Number	:	830A70112
Serial Number	:	3363140002
Manufacturer	:	Fujitsu Siemens
FCC ID	:	HSSSCENICM701
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	5121
Serial Number	:	J83300810
FCC ID	:	E5XKBM104M10UC
Manufacturer	:	Behavior Tech Computer Corp.
Data Cable	:	Shielded, Undetachable, 1.0m

1.2.3. PRINTER

Model Number	:	2225C+
Serial Number	:	3121S96627
FCC ID	:	DSI6XU2225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, M/N 82241A
Data Cable	:	Non-Shielded, Undetachable, 2.0m
	:	Shielded, Detachable, 1.2m

1.2.4. MODEM # 1

Model Number	:	DM-1414
Serial Number	:	980034398
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	:	980034392
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. PS2 MOUSE

Model Number	:	M-S35
Serial Number	:	LZA82103139
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

1.2.9. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

1.2.10. SPEAKER

Model Number	:	J-008
Serial Number	:	J80547836
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

1.2.11. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08697
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.12. EARPHONE

Model Number	:	N/A
Serial Number	:	N/A
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Undetachable, 1.1m

1.2.13. GAME PAD

Model Number	:	S-2300
Serial Number	:	N/A
Manufacturer	:	Super Cobra
Data Cable	:	Non-Shielded, Undetachable, 1.35m

1.3. Description of Test Facility

Site Description (No. 7 Open Site)	:	Dec. 02, 1999 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
DAR-Registration No.	:	DAT-P-092/99-00

1.4. Measurement Uncertainty

- (1) Radiation Uncertainty Ur = \pm 4.01dB
- (2) Conduction Uncertainty Uc = \pm 2.26dB

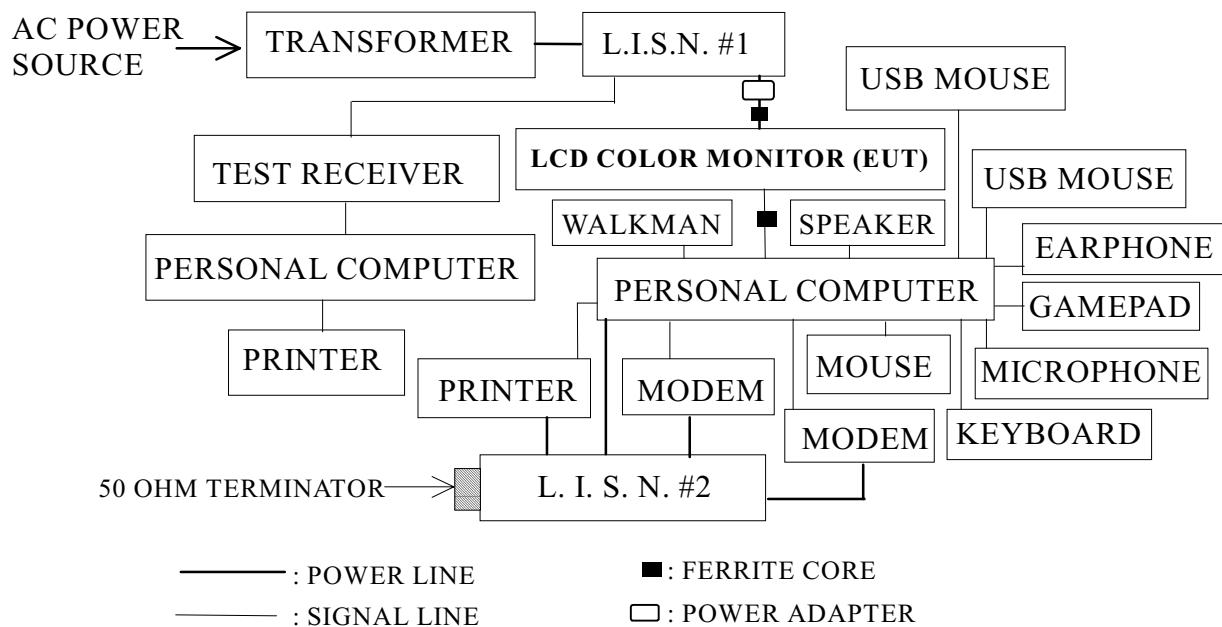
2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

The following test equipment were used during the power line conducted tests :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Personal Computer	TOKIN	586PC	N/A	N/A	N/A
2.	Test Receiver	Rohde & Schwarz	ESCS 30	825442/020	Jun. 27, 00'	1 Year
3.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1370-10	May 31, 00'	1 Year
4.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1370-9	May 31, 00'	1 Year
5.	Printer	HP	C2164A	SG58N1321Y	N/A	N/A

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 equipment 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. 17" LCD Color Monitor (EUT)

Model Number	:	LM-700
Serial Number	:	N/A
FCC ID	:	ARSTF1760
Manufacturer #1	:	Top Victory Electronics (Fujian) Co., Ltd.
Manufacturer #2	:	Beijing Orient Top Victory Electronics Co., Ltd.
LCD Panel	:	# 1 Chi Mei, M/N M170E1 # 2 Chi Mei, M/N M170E1 # 3 Unipac, M/N UN170E01 (The # 1 & # 2 LCD Panel have the same model number, the difference is PCB layout different.)
Power Adapter	:	Chi, M/N CH-1205 I/P: 100-240Vac, 47-63Hz, 1.5A (Max.) O/P: DC 12V, 5A, 60W Cable: Shielded, Undetachable, 0.7m Bonded a ferrite core FCC ID by FCC DoC
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. Personal computer sent "H" character to printer, the printer printed "H" pattern.
- 2.5.7. The other peripheral devices were driven and operated in turn during all testing.
- 2.5.8. Repeat the above procedures from 2.5.3 to 2.5.7.

2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N.# 1). The other peripheral devices power cord 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 equipment and all of the interface cables were changed according to FCC ANSI C63.4-1992 requirement.

The bandwidth of the R&S Test Receiver ESCS 30 was set at 10KHz.

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

2.7. Line Conducted RF Voltage Measurement Results

PASSED. Please refer to the following pages. (21 pages)

EUT with the following test modes were done during conducted measurement and all the test results are listed in following pages.

EUT : 17" LCD Color Monitor Model No.: LM-700

Test Date : Feb. 02, 2001 Temperature : 17°C Humidity : 68%

Test Date : Mar. 03, 2001 Temperature : 19°C Humidity : 59%

Test Modes			Reference Data #
No.	LCD Panel	Working Frequency & Resolution	
1.	#1, Chi Mei	800*600/75Hz, 46KHz	# 1239 ; # 1240
2.	#1, Chi Mei	1024*768/75Hz, 60KHz	# 1242 ; # 1241
3.	#1, Chi Mei	1280*1024/75Hz, 80KHz	# 1243 (1244, 1245) ; # 1246 (1247, 1248)
4.	#2, Chi Mei	800*600/75Hz, 46KHz	# 1260 ; # 1259
5.	#2, Chi Mei	1024*768/75Hz, 60KHz	# 1261 ; # 1262
6.	#2, Chi Mei	1280*1024/75Hz, 80KHz	# 1266 (1267, 1268) ; # 1263 (1264, 1265)
7.	#3, Unipac	800*600/75Hz, 46KHz	# 1277 ; # 1278
8.	#3, Unipac	1024*768/75Hz, 60KHz	# 1276 ; # 1275
9.	#3, Unipac	1280*1024/75Hz, 80KHz	# 1269 (1270, 1271) ; # 1272 (1273, 1274)

Please refer to the next pages.

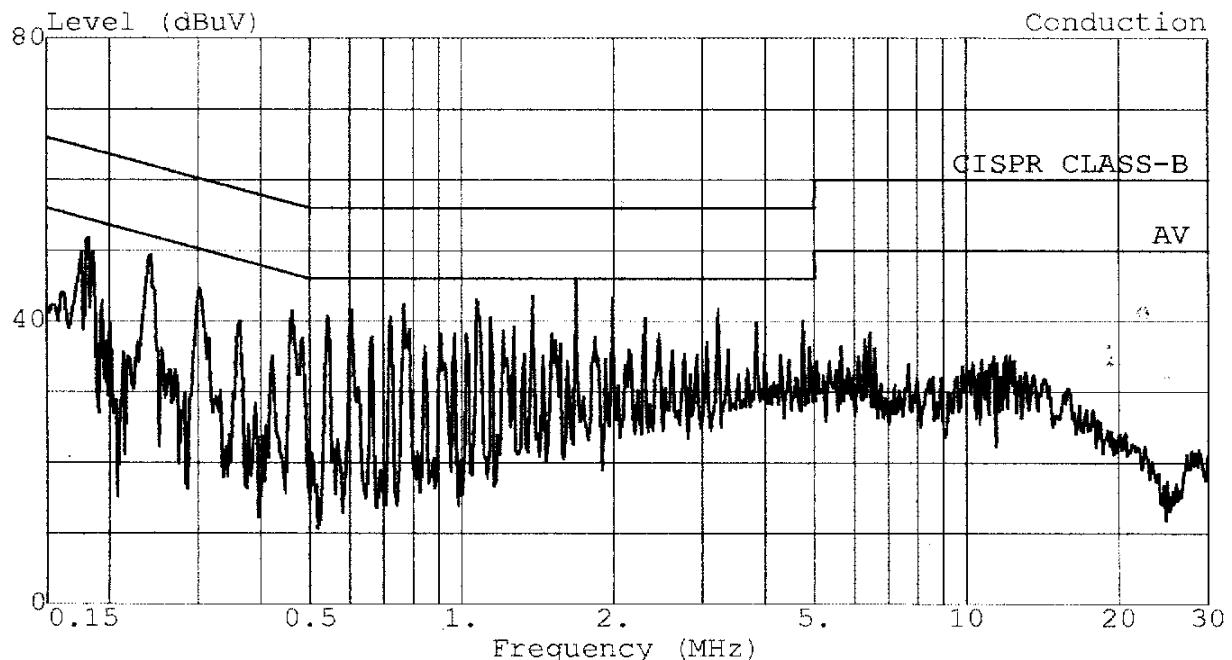
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Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1239 File#: TOP-VICT.EMI

Date: 2001-02-02 Time: 10:32:41



Trace:

Limit: CISPR CLASS-B

Probe: KNW-407 NEUTRAL

Ref Trace:

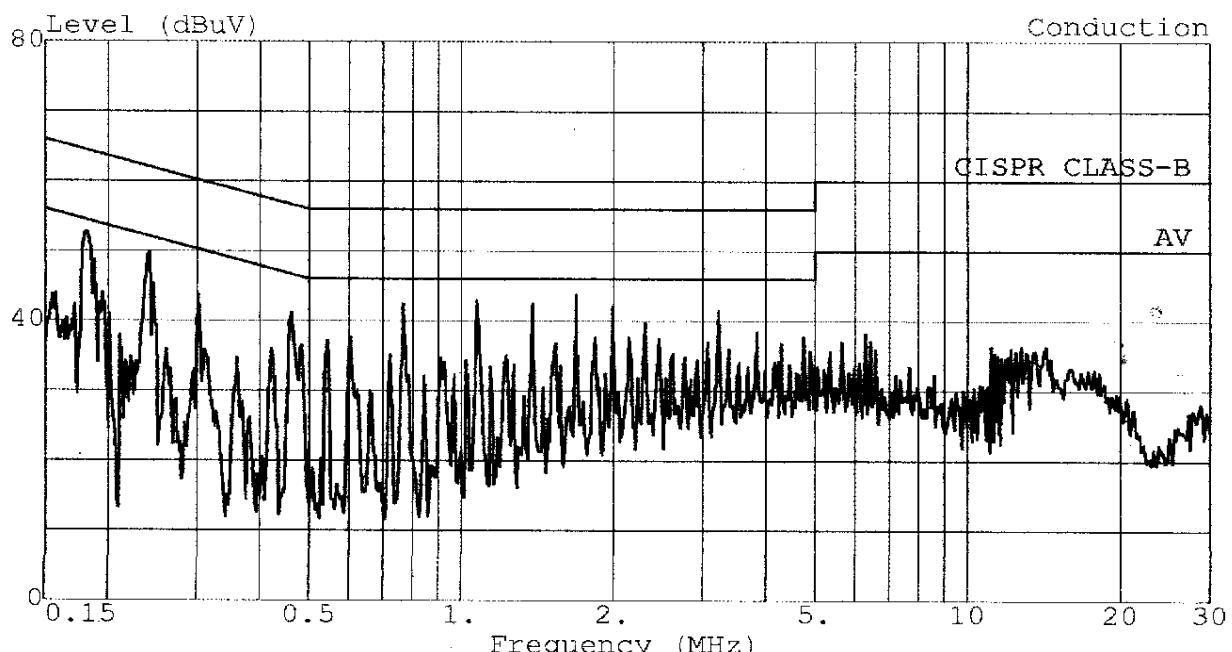
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Test Site:
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 Tel:02-26092133 Fax:02-26099303

Data#: 1240 File#: TOP-VICT.EMI

Date: 2001-02-02 Time: 10:33:17



Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 800*600/75Hz; 46KHz

Ref Trace:

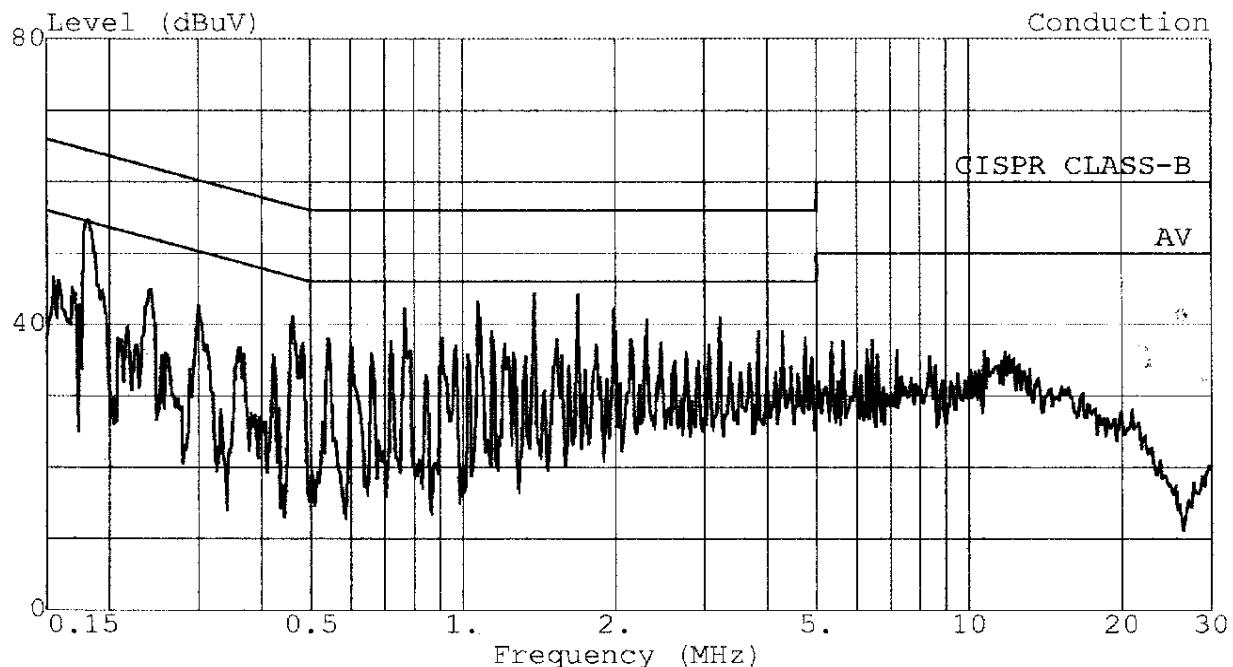
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Test Site:
 #53-11 Tingfu Tsun, Linkou,
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Data#: 1242 File#: TOP-VICT.EMI

Date: 2001-02-02 Time: 10:34:43



Trace:

Limit: CISPR CLASS-B

Probe: KNW-407 NEUTRAL

Ref Trace:

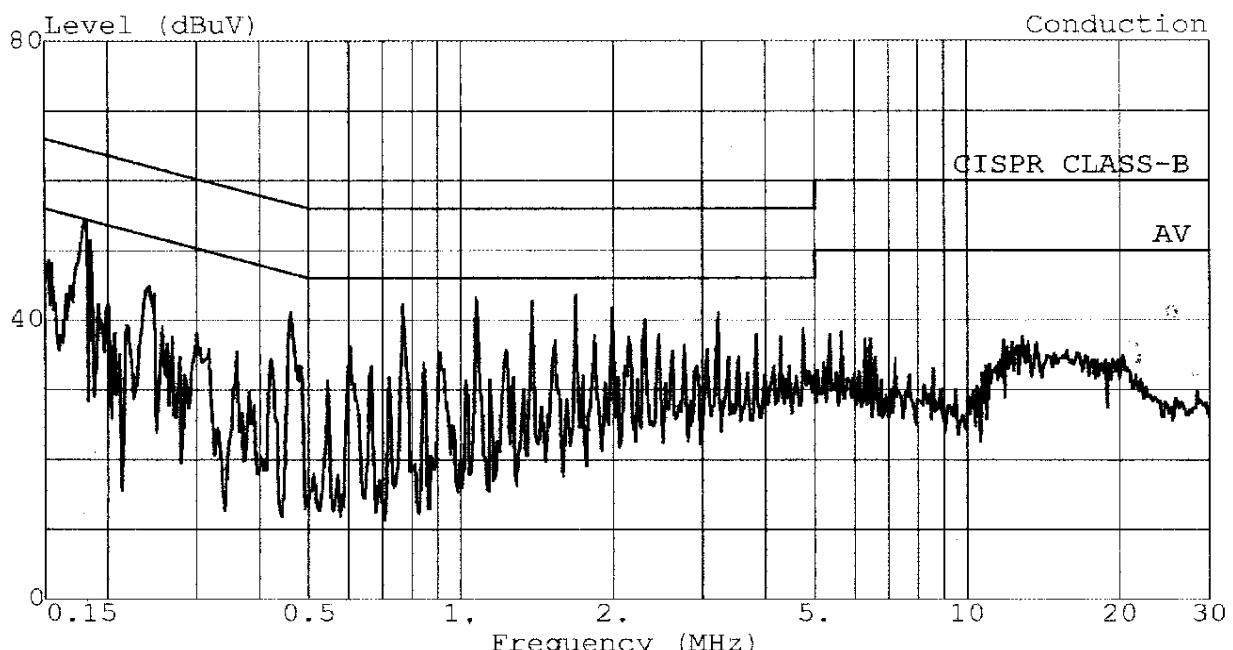
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Test Site:
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 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1241 File#: TOP-VICT.EMI

Date: 2001-02-02 Time: 10:34:11



Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1024*768/75Hz;60KHz

Ref Trace:

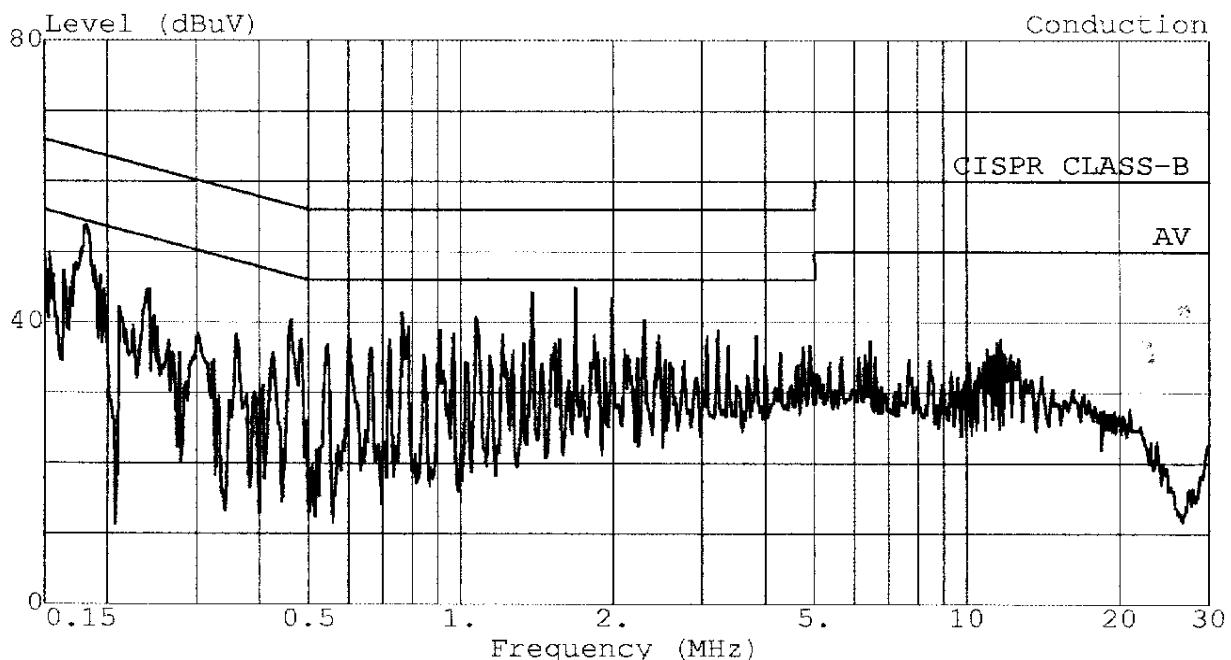
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Test Site:
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 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1243 File#: TOP-VICT.EMI

Date: 2001-02-02 Time: 10:37:19



Trace:

Limit: CISPR CLASS-B

Ref Trace:

Probe: KNW-407 NEUTRAL

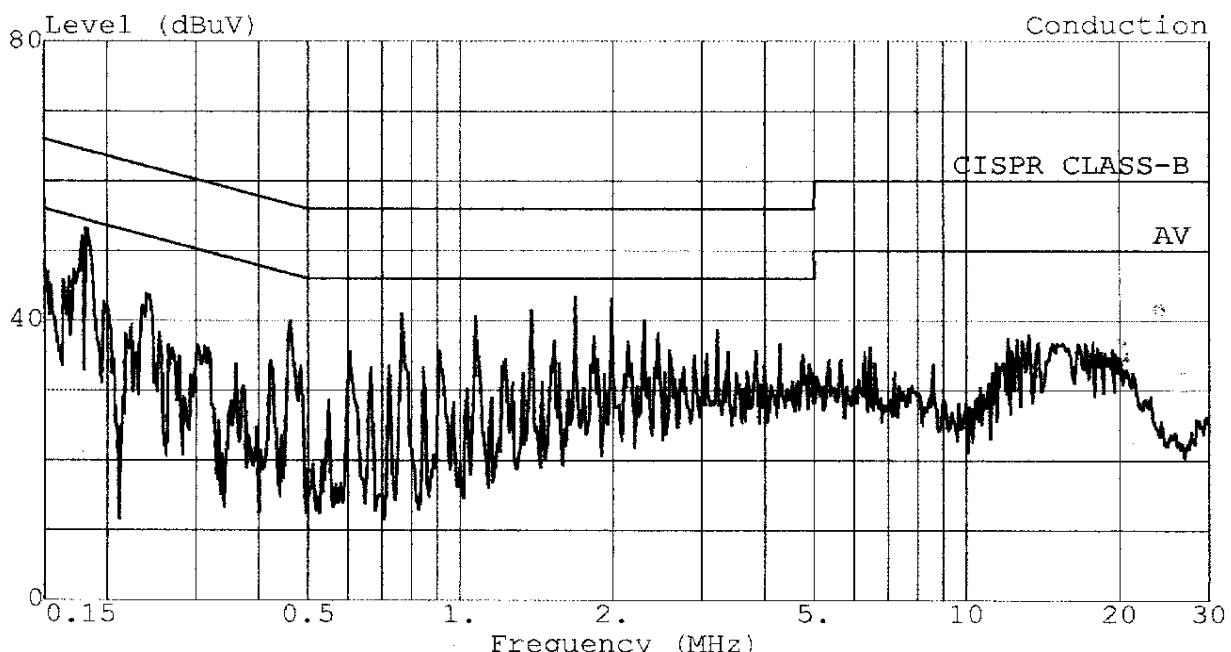
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Data#: 1246 File#: TOP-VICT.EMI

Date: 2001-02-02 Time: 10:40:30



Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1280*1024/75Hz;80KHz

Ref Trace:



TAIWAN TOKIN EMC ENG. CORP.

Test Site:
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 Tel:02-26092133 Fax:02-26099303

Data#: 1244 File#: TOP-VICT.EMI Date: 2001-02-02 Time: 10:39:04
 Conduction
 Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Page: 1		
						Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	0.181	52.64	-11.80	64.44	52.04	0.40	0.20	0.00 QP
2	0.240	43.02	-19.06	62.08	42.52	0.30	0.20	0.00 QP
3	0.460	38.81	-17.88	56.69	38.31	0.30	0.20	0.00 QP
4	1.076	40.90	-15.10	56.00	40.20	0.30	0.40	0.00 QP
5	2.305	39.15	-16.85	56.00	38.45	0.30	0.40	0.00 QP
6	12.698	33.40	-26.60	60.00	32.10	0.60	0.70	0.00 QP

Data#: 1245 File#: TOP-VICT.EMI Date: 2001-02-02 Time: 10:39:36
 Conduction
 Limit: CISPR CLASS-B (AV) Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Page: 1		
						Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	0.181	44.40	-10.04	54.44	43.80	0.40	0.20	0.00 Average
2	0.240	36.34	-15.74	52.08	35.84	0.30	0.20	0.00 Average
3	0.460	38.84	-7.85	46.69	38.34	0.30	0.20	0.00 Average
4	1.076	39.72	-6.28	46.00	39.02	0.30	0.40	0.00 Average
5	2.305	35.98	-10.02	46.00	35.28	0.30	0.40	0.00 Average
6	12.698	26.93	-23.07	50.00	25.63	0.60	0.70	0.00 Average



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Data#: 1247 File#: TOP-VICT.EMI Date: 2001-02-02 Time: 10:41:59
 Conduction
 Limit: CISPR CLASS-B Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	%
1	0.183	52.13	-12.21	64.34	51.53	0.40	0.20	0.00	QP
2	0.242	42.76	-19.28	62.04	42.26	0.30	0.20	0.00	QP
3	0.462	38.97	-17.69	56.66	38.47	0.30	0.20	0.00	QP
4	1.074	40.06	-15.94	56.00	39.36	0.30	0.40	0.00	QP
5	2.305	39.45	-16.55	56.00	38.75	0.30	0.40	0.00	QP
6	12.715	35.32	-24.68	60.00	34.02	0.60	0.70	0.00	QP

Data#: 1248 File#: TOP-VICT.EMI Date: 2001-02-02 Time: 10:42:32
 Conduction
 Limit: CISPR CLASS-B (AV) Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	%
1	0.183	41.60	-12.74	54.34	41.00	0.40	0.20	0.00	Average
2	0.242	38.21	-13.83	52.04	37.71	0.30	0.20	0.00	Average
3 !	0.462	38.69	-7.97	46.66	38.19	0.30	0.20	0.00	Average
4 !	1.074	39.76	-6.24	46.00	39.06	0.30	0.40	0.00	Average
5	2.305	35.84	-10.16	46.00	35.14	0.30	0.40	0.00	Average
6	12.715	29.98	-20.02	50.00	28.68	0.60	0.70	0.00	Average

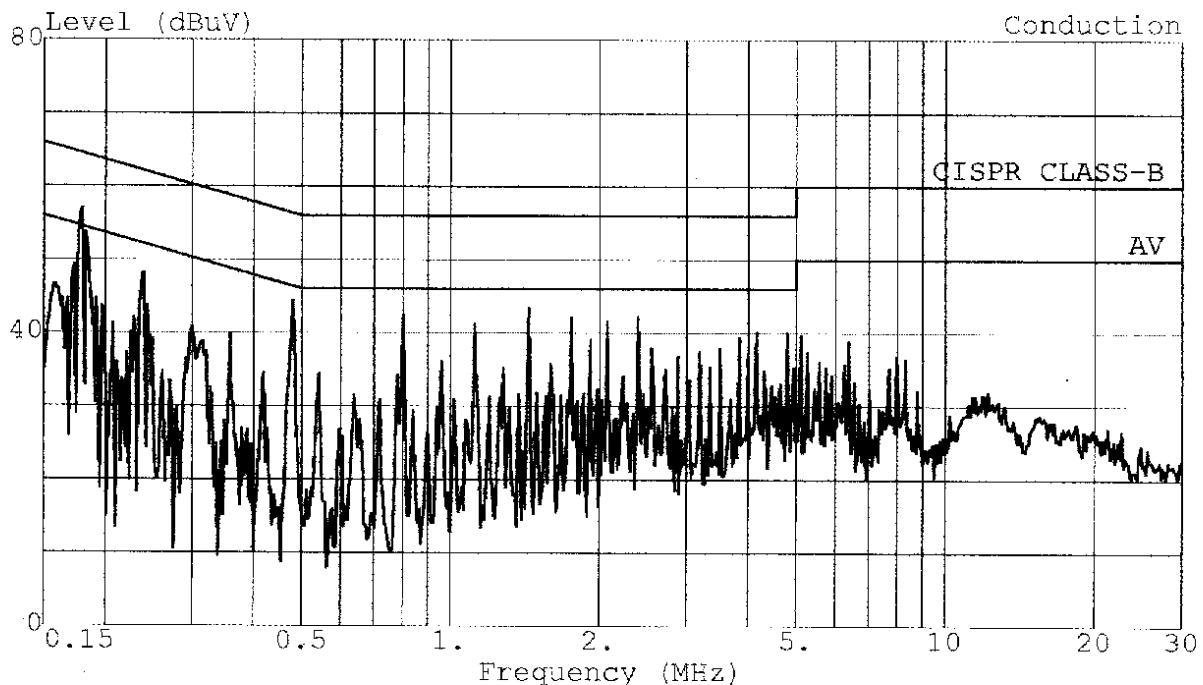
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Data#: 1260 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:25:56



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 800*600/75Hz;46KHz
 : B3
 : 奇美 PANEL

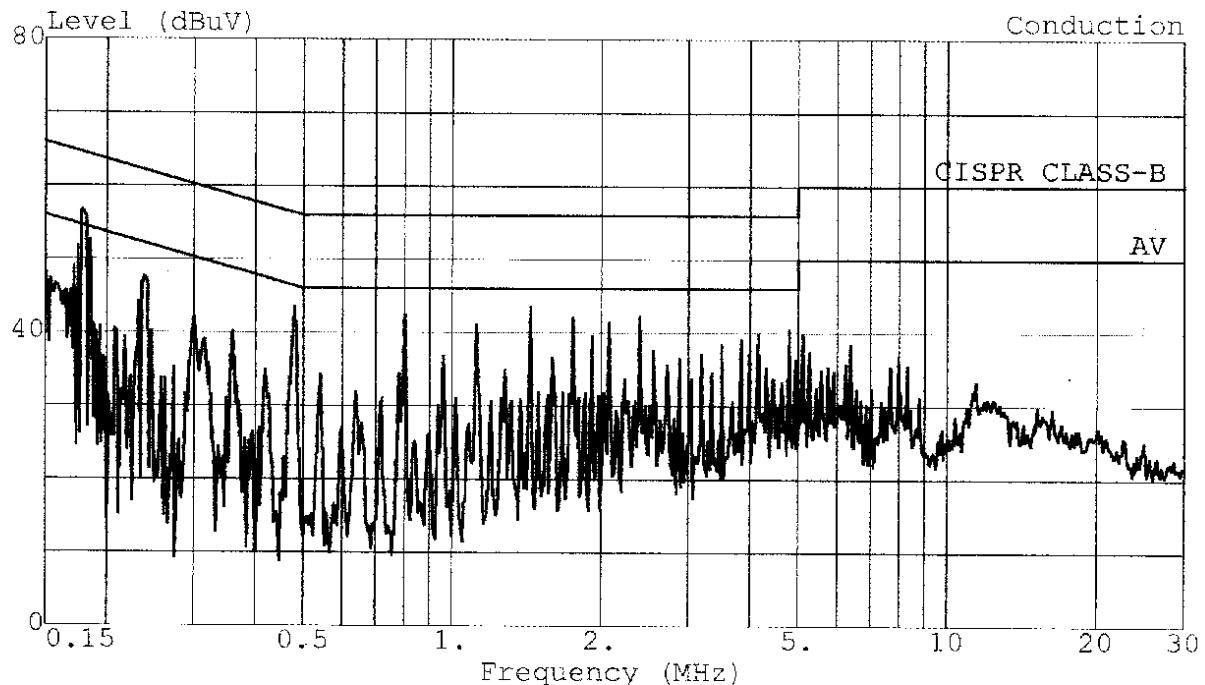
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Data#: 1259 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:25:27



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 800*600/75Hz;46KHz
 : B3
 : 奇美 PANEL

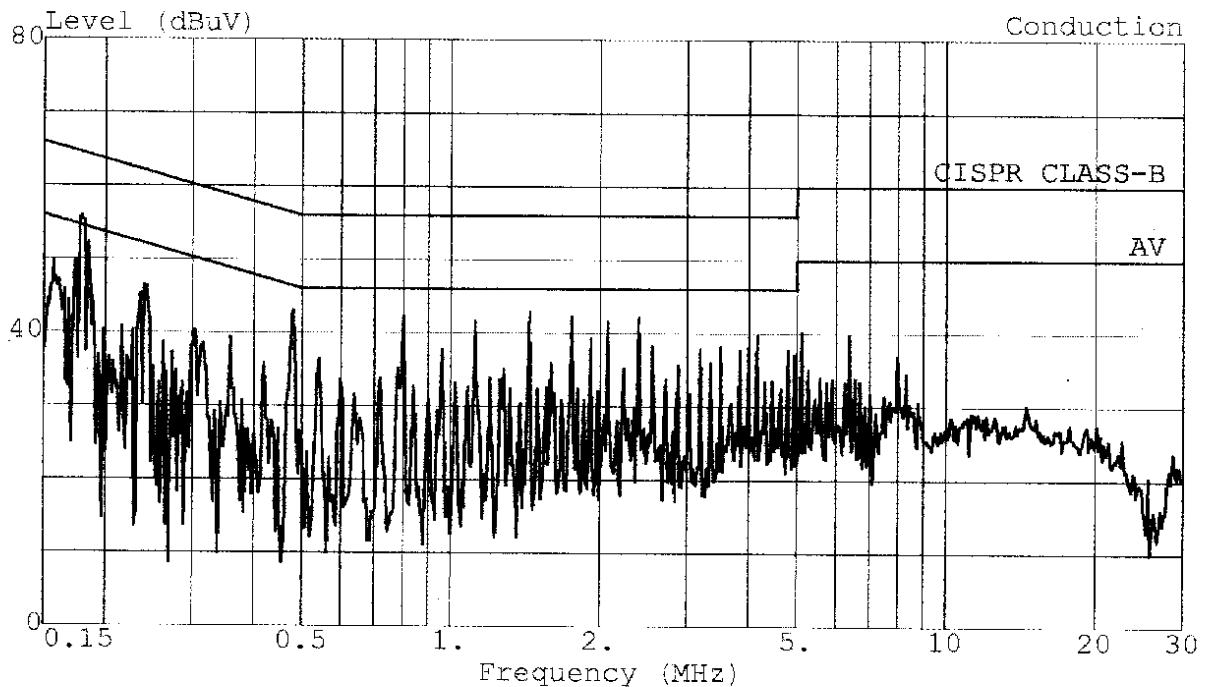
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Data#: 1261 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:30:26



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1024*768/75Hz; 60KHz

: B3

: 奇美 PANEL

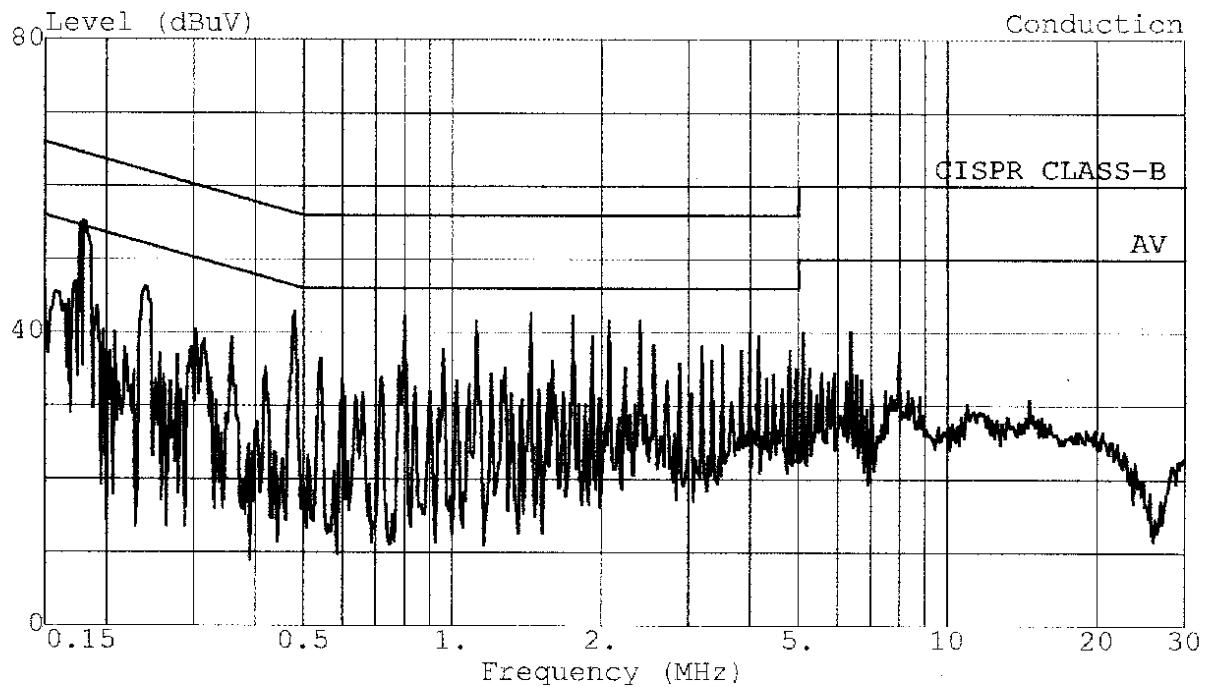
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1262 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:30:55



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1024*768/75Hz;60KHz

: B3

: 奇美 PANEL

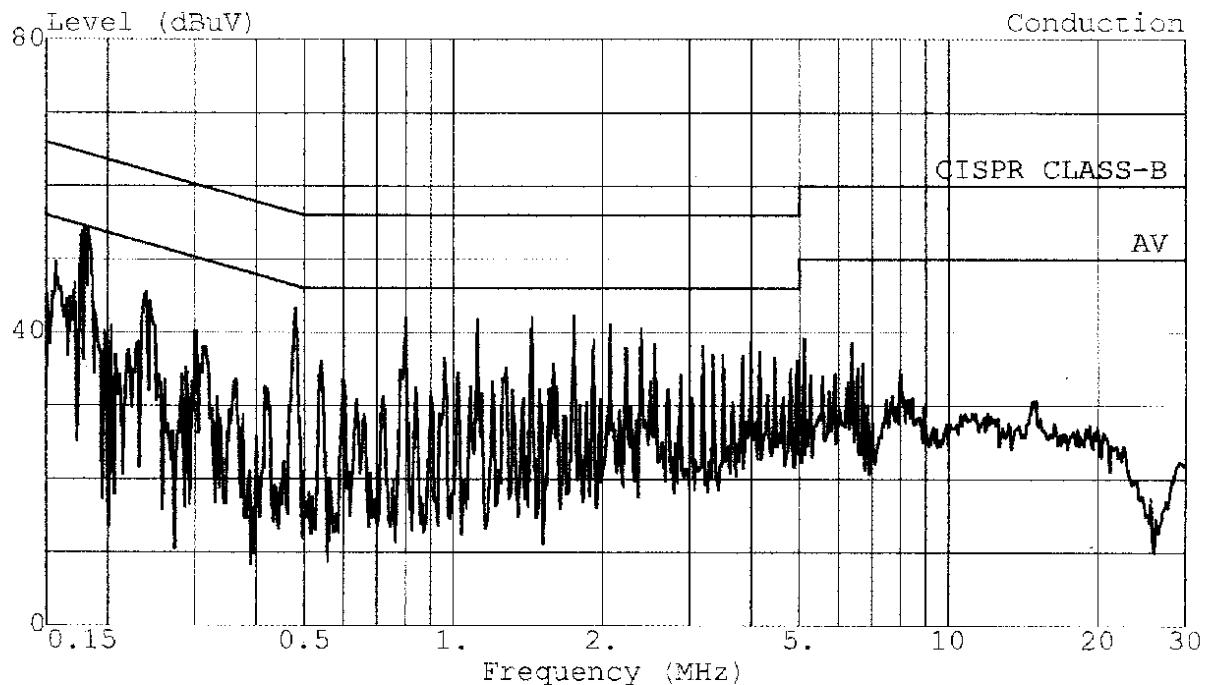
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1266 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:35:49



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1280*1024/75Hz;80KHz

: B3

: 奇美 PANEL



TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1267 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:37:13

Conduction

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1280*1024/75Hz;80KHz

: B3

: 奇美 PANEL

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.181	53.88	-10.57	64.45	53.28	0.40	0.20	0.00	QP
2	0.241	45.33	-16.72	62.05	44.83	0.30	0.20	0.00	QP
3	0.480	41.86	-14.47	56.33	41.36	0.30	0.20	0.00	QP
4	1.440	42.45	-13.55	56.00	41.75	0.30	0.40	0.00	QP
5	2.718	39.35	-16.65	56.00	38.65	0.30	0.40	0.00	QP
6	5.435	39.12	-20.88	60.00	38.22	0.30	0.60	0.00	QP

Data#: 1268 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:37:45

Conduction

Limit: CISPR CLASS-B (AV) Probe: KNW-407 NEUTRAL

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1280*1024/75Hz;80KHz

: B3

: 奇美 PANEL

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.181	44.36	-10.09	54.45	43.76	0.40	0.20	0.00	Average
2	0.241	36.92	-15.13	52.05	36.42	0.30	0.20	0.00	Average
3 !	0.480	40.83	-5.50	46.33	40.33	0.30	0.20	0.00	Average
4 !	1.440	41.43	-4.57	46.00	40.73	0.30	0.40	0.00	Average
5 !	2.718	38.30	-7.70	46.00	37.60	0.30	0.40	0.00	Average
6	5.435	37.54	-12.46	50.00	36.64	0.30	0.60	0.00	Average

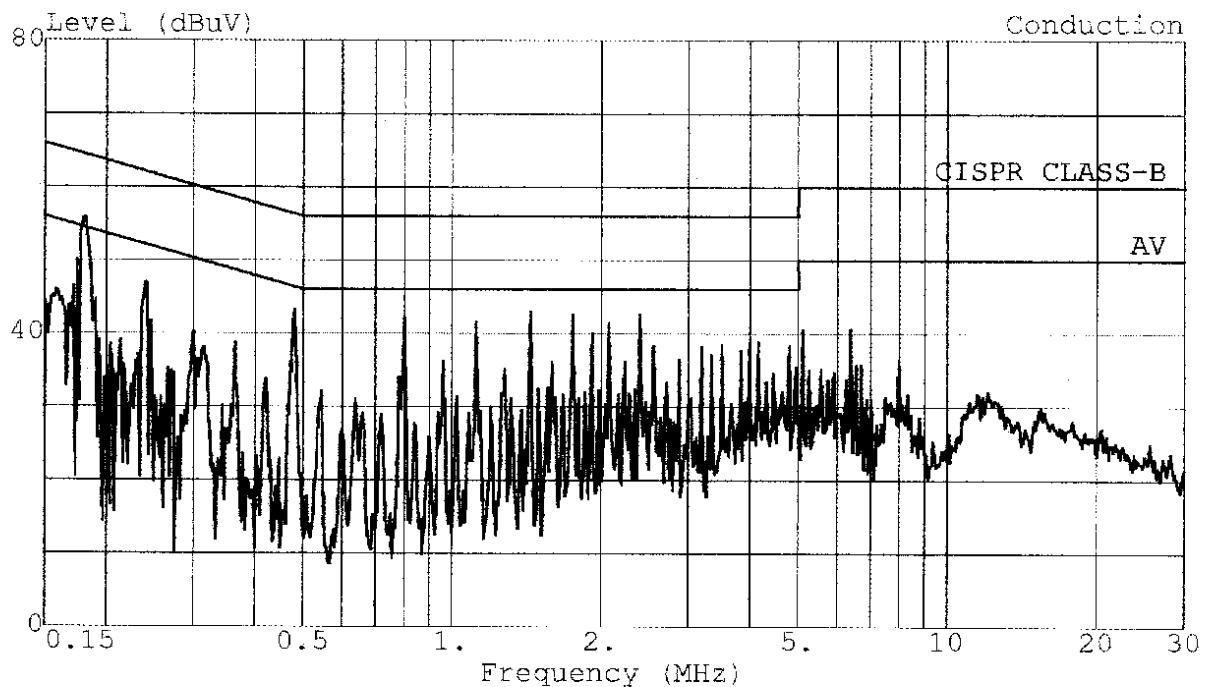
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1263 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:32:47



Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1280*1024/75Hz;80KHz

: B3

: 奇美 PANEL

Ref Trace:



TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1264 File#: TOP-VICT.EMI
 Conduction

Date: 2001-03-03 Time: 10:34:28

Limit: CISPR CLASS-B Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz
 : B3
 : 奇美 PANEL

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.179	53.82	-10.72	64.54	53.22	0.40	0.20	0.00	QP
2	0.240	45.17	-16.94	62.11	44.67	0.30	0.20	0.00	QP
3	0.480	42.28	-14.05	56.33	41.78	0.30	0.20	0.00	QP
4	1.438	42.31	-13.69	56.00	41.61	0.30	0.40	0.00	QP
5	2.718	39.55	-16.45	56.00	38.85	0.30	0.40	0.00	QP
6	5.436	39.44	-20.56	60.00	38.54	0.30	0.60	0.00	QP

Data#: 1265 File#: TOP-VICT.EMI
 Conduction

Date: 2001-03-03 Time: 10:35:00

Limit: CISPR CLASS-B (AV) Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz
 : B3
 : 奇美 PANEL

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.179	42.71	-11.83	54.54	42.11	0.40	0.20	0.00	Average
2	0.240	34.46	-17.65	52.11	33.96	0.30	0.20	0.00	Average
3 !	0.480	41.05	-5.28	46.33	40.55	0.30	0.20	0.00	Average
4 !	1.438	41.55	-4.45	46.00	40.85	0.30	0.40	0.00	Average
5 !	2.718	38.82	-7.18	46.00	38.12	0.30	0.40	0.00	Average
6	5.436	37.94	-12.06	50.00	37.04	0.30	0.60	0.00	Average

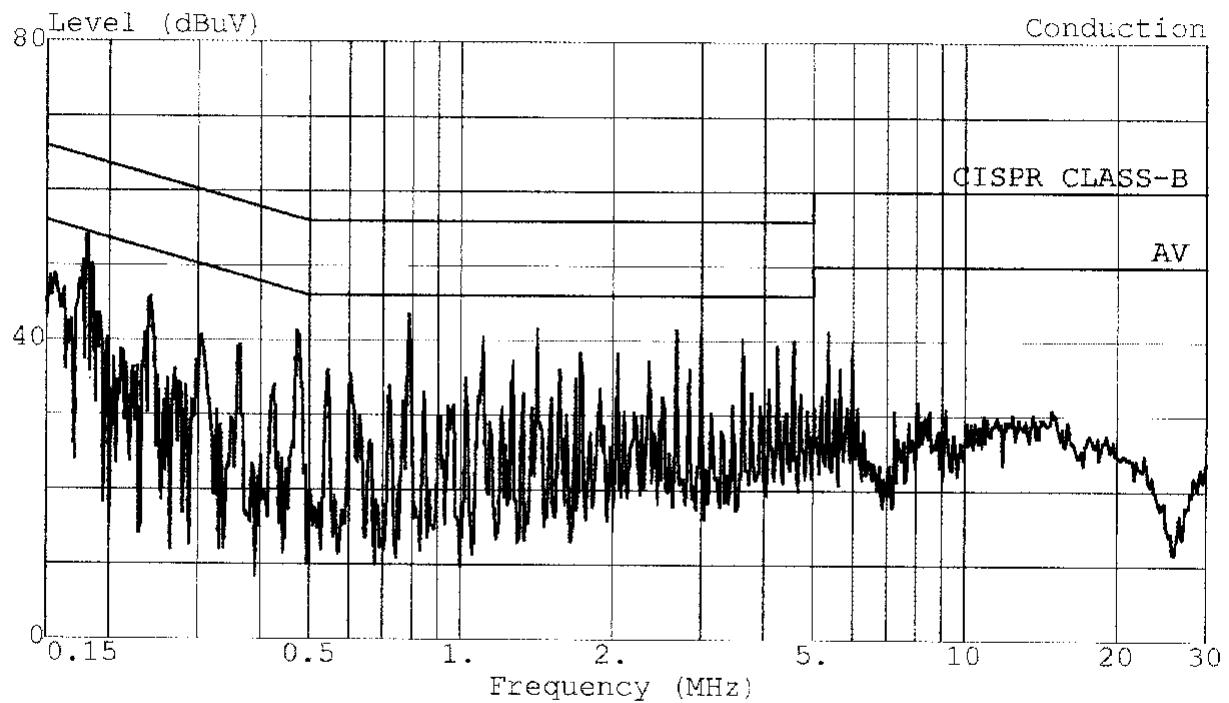
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1277 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:52:07



Trace:

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 800*600/75Hz; 46KHz

: B3

: 聯友 PANEL

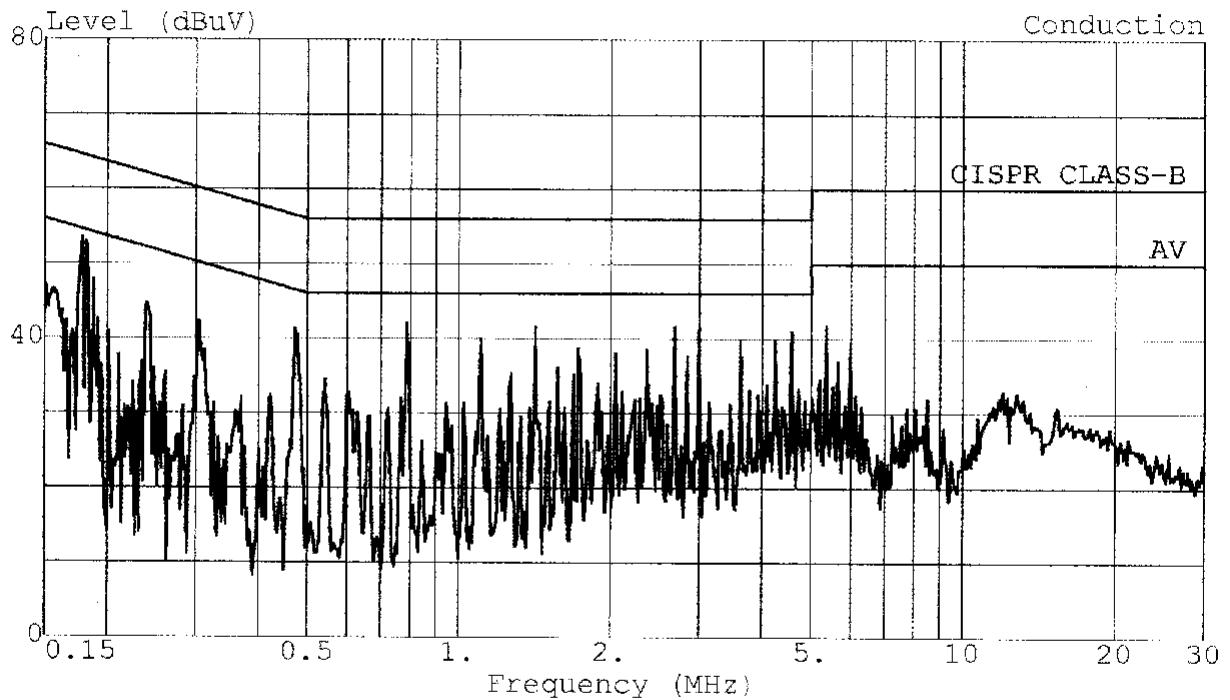
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1278 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:52:37



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 800*600/75Hz; 46KHz
 : B3
 : 聯友 PANEL

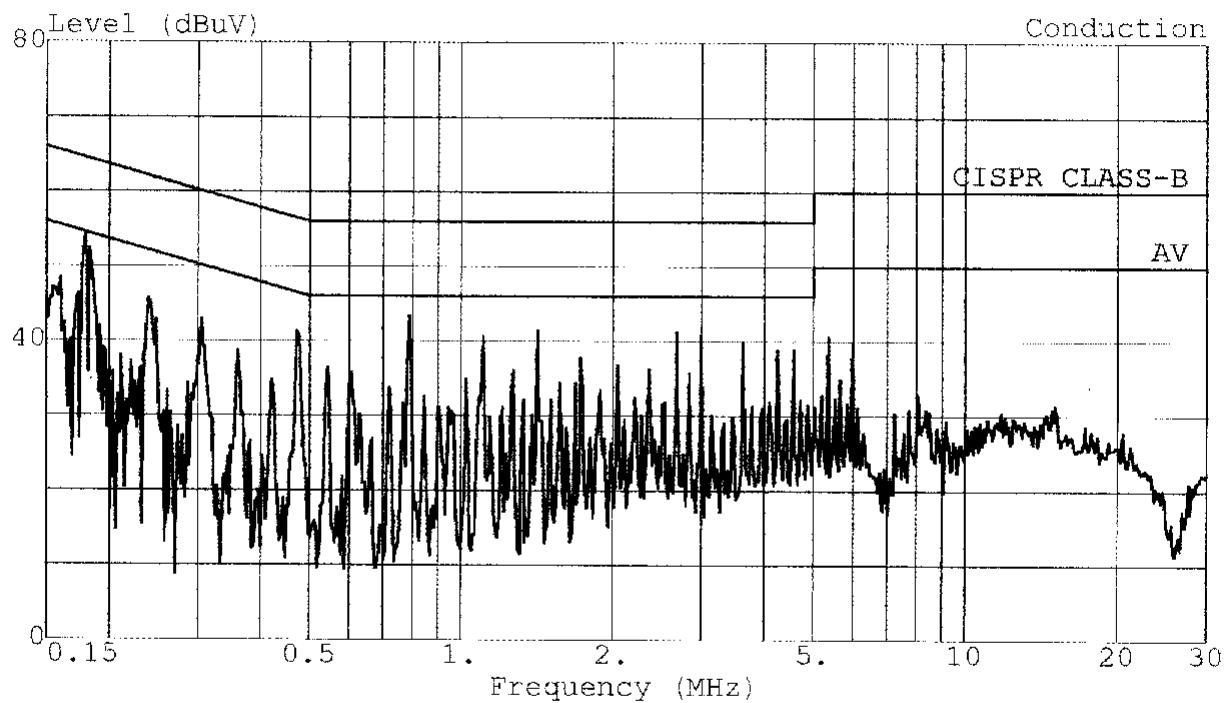
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1276 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:51:21



Trace:

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL

EUT : 17" LCD Color Monitor M/N:LM-700

Power: 120Vac/60Hz

Memo : 1024*786/75Hz;60KHz

: B3

: 聯友 PANEL

Ref Trace:

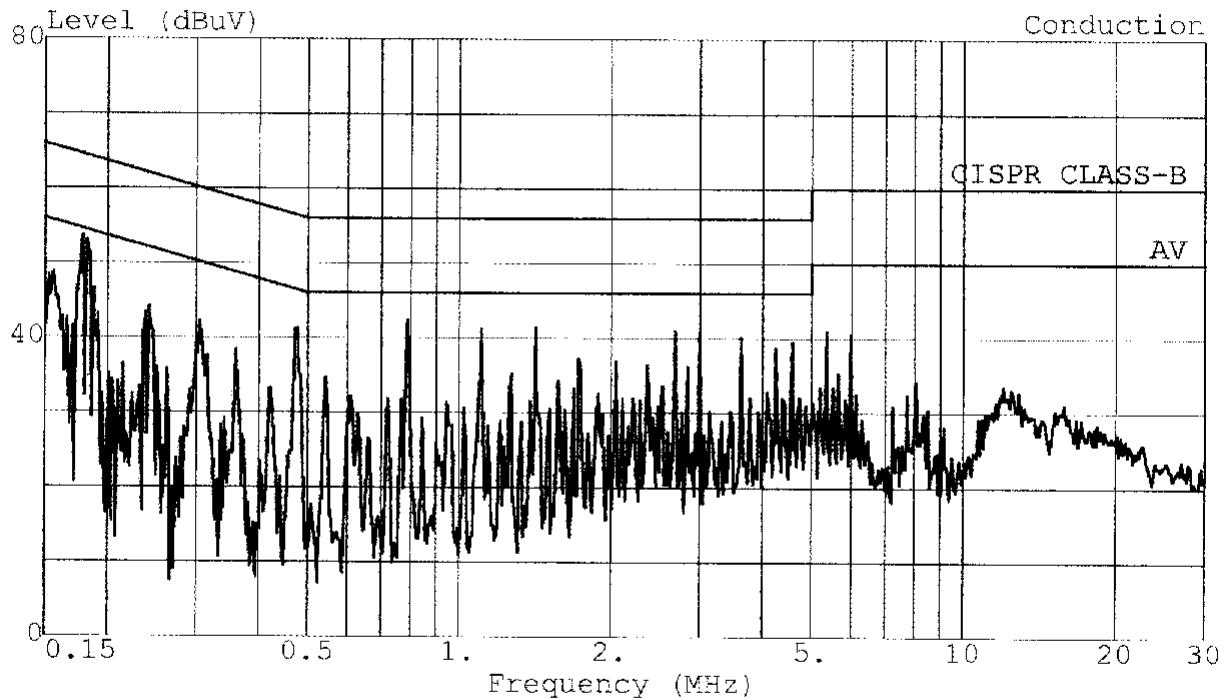
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1275 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:50:49



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1024*786/75Hz; 60KHz
 : B3
 : 聯友 PANEL

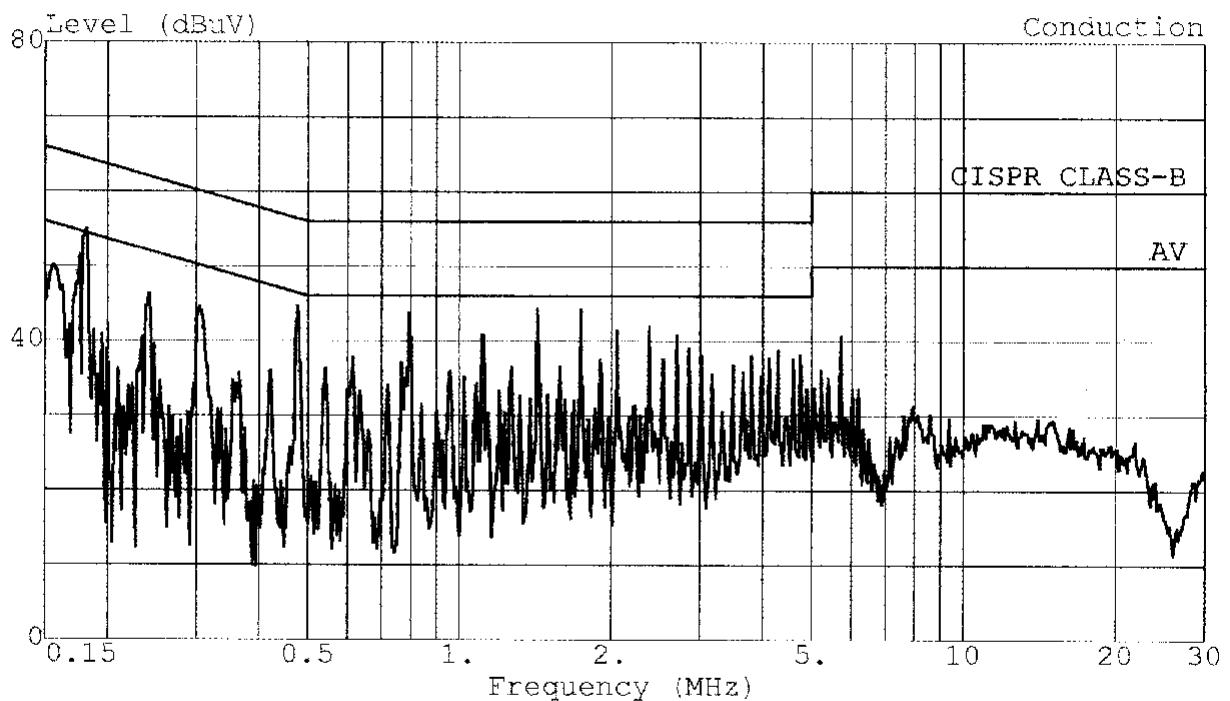
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1269 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:41:17



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz
 : B3
 : 聯友 PANEL



TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1270 File#: TOP-VICT.EMI Date: 2001-03-03 Time: 10:44:00
 Conduction
 Limit: CISPR CLASS-B Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz
 : B3
 : 聯友 PANEL

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Page: 1
		Limit	Line	Level	Factor	Loss	Factor	
	MHz	dB	dB	dB	dB	dB	dB	
1	0.182	53.44	-10.98	64.42	52.84	0.40	0.20	0.00 QP
2	0.242	44.69	-17.33	62.02	44.19	0.30	0.20	0.00 QP
3	0.475	42.12	-14.30	56.42	41.62	0.30	0.20	0.00 QP
4	1.504	32.46	-23.54	56.00	31.76	0.30	0.40	0.00 QP
5	2.693	41.13	-14.87	56.00	40.43	0.30	0.40	0.00 QP
6	5.387	37.19	-22.81	60.00	36.29	0.30	0.60	0.00 QP

Data#: 1271 File#: TOP-VICT.EMI Date: 2001-03-03 Time: 10:44:31
 Conduction
 Limit: CISPR CLASS-B (AV) Probe: KNW-407 NEUTRAL
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz
 : B3
 : 聯友 PANEL

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Page: 1
		Limit	Line	Level	Factor	Loss	Factor	
	MHz	dB	dB	dB	dB	dB	dB	
1	0.182	44.00	-10.42	54.42	43.40	0.40	0.20	0.00 Average
2	0.242	36.43	-15.59	52.02	35.93	0.30	0.20	0.00 Average
3	0.475	42.23	-4.19	46.42	41.73	0.30	0.20	0.00 Average
4	1.504	31.64	-14.36	46.00	30.94	0.30	0.40	0.00 Average
5	2.693	40.41	-5.59	46.00	39.71	0.30	0.40	0.00 Average
6	5.387	33.56	-16.44	50.00	32.66	0.30	0.60	0.00 Average

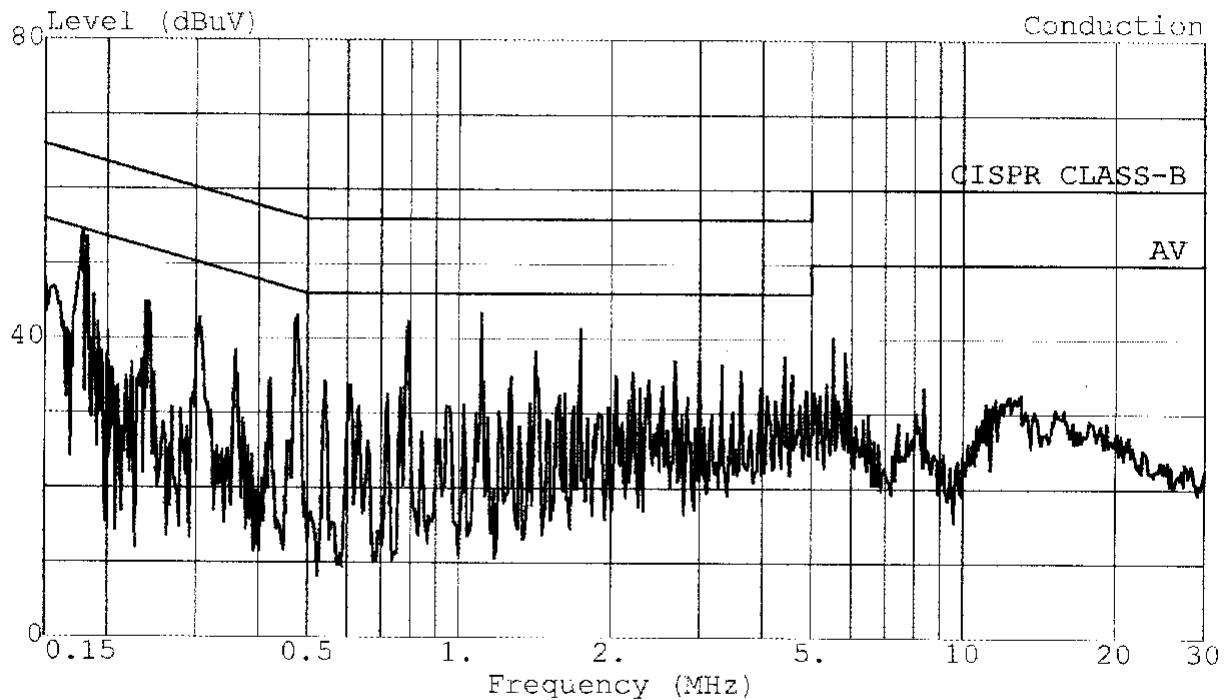
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 1272 File#: TOP-VICT.EMI

Date: 2001-03-03 Time: 10:45:54



Trace:

Ref Trace:

Limit: CISPR CLASS-B Probe: KNW-407 LINE
 EUT : 17" LCD Color Monitor M/N:LM-700
 Power: 120Vac/60Hz
 Memo : 1280*1024/75Hz;80KHz
 : B3
 : 聰友 PANEL



TAIWAN TOKIN EMC ENG. CORP.

Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

Data#: 1273 File#: TOP-VICT.EMI Date: 2001-03-03 Time: 10:49:14
Conduction
Limit: CISPR CLASS-B Probe: KNW-407 LINE
EUT : 17" LCD Color Monitor M/N:LM-700
Power: 120Vac/60Hz
Memo : 1280*1024/75Hz;80KHz
: B3
: 聯友 PANEL

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Page: 1
		Limit	Line	Level	Factor	Loss	Factor	
	MHz	dB	dB	dB	dB	dB	dB	
1	0.182	53.08	-11.33	64.41	52.48	0.40	0.20	0.00 QP
2	0.240	44.02	-18.08	62.10	43.52	0.30	0.20	0.00 QP
3	0.475	41.12	-15.31	56.43	40.62	0.30	0.20	0.00 QP
4	1.105	41.57	-14.43	56.00	40.87	0.30	0.40	0.00 QP
5	2.687	40.58	-15.42	56.00	39.88	0.30	0.40	0.00 QP
6	5.375	38.77	-21.23	60.00	37.87	0.30	0.60	0.00 QP

Data#: 1274 File#: TOP-VICT.EMI Date: 2001-03-03 Time: 10:49:45
Conduction
Limit: CISPR CLASS-B (AV) Probe: KNW-407 LINE
EUT : 17" LCD Color Monitor M/N:LM-700
Power: 120Vac/60Hz
Memo : 1280*1024/75Hz;80KHz
: B3
: 聯友 PANEL

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Page: 1
		Limit	Line	Level	Factor	Loss	Factor	
	MHz	dB	dB	dB	dB	dB	dB	
1	0.182	41.95	-12.46	54.41	41.35	0.40	0.20	0.00 Average
2	0.240	33.81	-18.29	52.10	33.31	0.30	0.20	0.00 Average
3	0.475	41.20	-5.23	46.43	40.70	0.30	0.20	0.00 Average
4	1.105	41.95	-4.05	46.00	41.25	0.30	0.40	0.00 Average
5	2.687	40.40	-5.60	46.00	39.70	0.30	0.40	0.00 Average
6	5.375	34.63	-15.37	50.00	33.73	0.30	0.60	0.00 Average

3. RADIATED EMISSION TEST

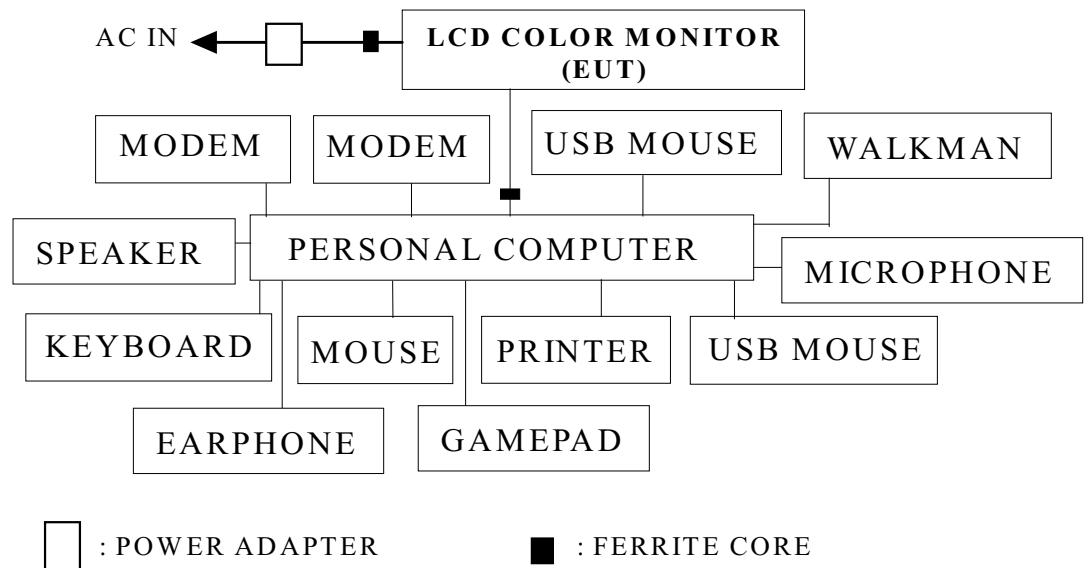
3.1. Test Equipment

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

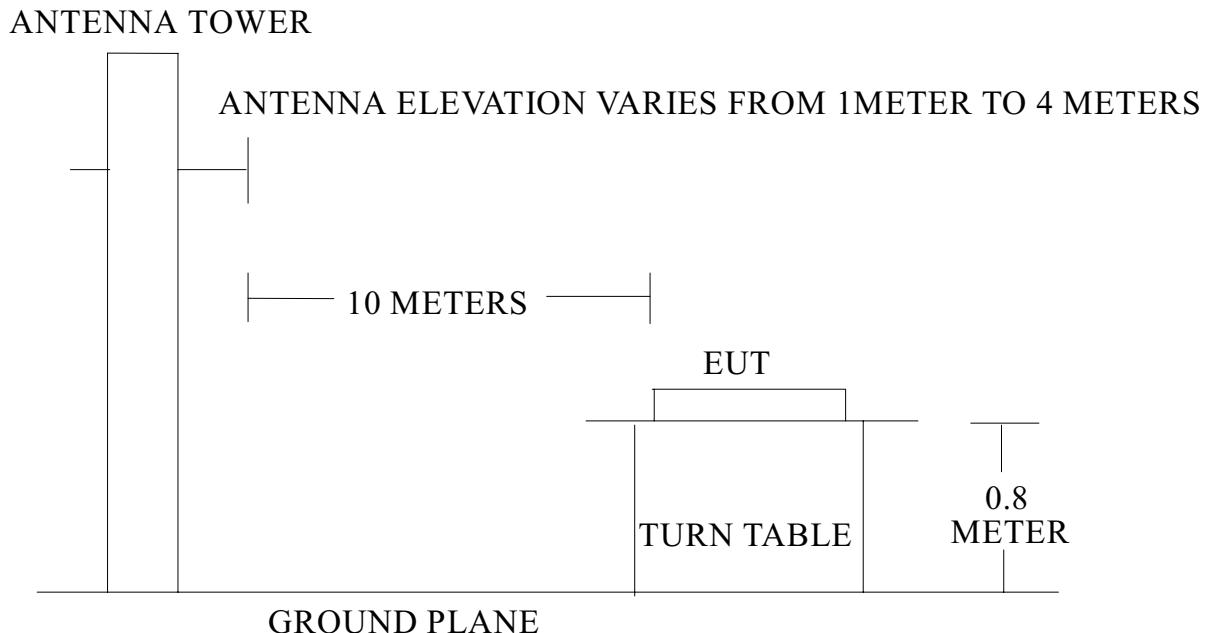
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8595E	3829A03489	Oct.30, 00'	1 Year
2.	Test Receiver	R&S	ESVS10	826148/005	May 06, 00'	1 Year
3.	Computer	TOKIN	586PC	N/A	N/A	NA
4.	Printer	Panasonic	C6450A	TH96Q121ZC	N/A	N/A
5.	Amplifier	HP	8447D	2944A06891	N/A	N/A
6.	Broadband Antenna	Chase	VBA6106A	1240	Jul.05, 00'	1 Year
7.	Broadband Antenna	Chase	UPA6109	1064	Jul.05, 00'	1 Year

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Field Test Site (10m) Setup Diagram



3.3. Radiation Limit (CISPR 22 Class B)

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMITS
MHz	Meters	dBuV/m
30 ~ 230	10	30
230 ~ 1000	10	37

Remark : (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 device or system.

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were the 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 Section 2.5.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 10 meters away from the receiving antenna which were mounted on a antenna tower. The antenna can move 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 requirement.

The bandwidth of the R&S Test Receiver ESVS10 was set at 120KHz.

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

EUT with the following test modes were done during radiated measurement and all the test results are listed in section 3.8. The details of test modes are as follows:

Test Modes		
No.	LCD Panel	Working Frequency & Resolution
1.	# 1, Chi Mei	800*600/75Hz, 46KHz
2.	# 1, Chi Mei	1024*768/75Hz, 60KHz
3.	# 1, Chi Mei	1280*1024/75Hz, 80KHz
4.	# 2, Chi Mei	800*600/75Hz, 46KHz
5.	# 2, Chi Mei	1024*768/75Hz, 60KHz
6.	# 2, Chi Mei	1280*1024/75Hz, 80KHz
7.	# 3, Unipac	800*600/75Hz, 46KHz
8.	# 3, Unipac	1024*768/75Hz, 60KHz
9.	# 3, Unipac	1280*1024/75Hz, 80KHz

3.7. Test Results

PASSED. Please refer to the following pages.

3.8. Radiated Emission Measurement Results

PASSED.

All emissions not reported below are too low against the prescribed limits.

Date of Test :	Jan. 31, 2001	Temperature :	22.6°C
EUT :	17" LCD Color Monitor	Humidity :	65%
Test Mode :	46KHz/800*600/75Hz	LCD Panel :	#1, Chi Mei

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
60.046	12.01	1.44	4.01	17.46	30.00	12.54
90.096	15.77	1.84	5.27	22.88	30.00	7.12
120.415	18.97	2.14	- 4.33	16.78	30.00	13.22
150.165	20.21	2.36	- 1.23	21.34	30.00	8.66
180.180	20.66	2.57	- 3.08	20.15	30.00	9.85
200.000	21.09	2.65	- 2.77	20.97	30.00	9.03
210.212	21.66	2.75	- 3.09	21.32	30.00	8.68
240.250	21.86	3.05	- 2.67	22.24	37.00	14.76
270.277	23.39	3.28	- 1.62	25.05	37.00	11.95
400.000	16.09	4.05	10.14	30.28	37.00	6.72
600.026	19.78	5.23	- 1.65	23.36	37.00	13.64
800.006	22.95	6.18	0.42	29.55	37.00	7.45
840.015	24.39	6.27	- 1.87	28.79	37.00	8.21
*	999.998	24.52	6.96	3.53	35.01	37.00
						1.99

Remark : 1. All reading are Quasi-Peak values.
 2. The worst emission was detected at 999.998MHz with corrected signal level of 35.01dBuV/m (limit was 37.0dBuV/m) when the antenna was at horizontal polarization and was at 1m high and the turn table was at 103° .
 3. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Jan. 31, 2001 Temperature : 22.6°C
 EUT : 17" LCD Color Monitor Humidity : 65%
 Test Mode : 46KHz/800*600/75Hz LCD Panel : #1, Chi Mei

Frequency MHz	Antenna Factor	Cable Loss	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Limits dB μ V/m	Margin dB
34.698	18.72	1.09	4.98	24.79	30.00	5.21
39.672	19.11	1.17	0.88	21.16	30.00	8.84
60.060	13.18	1.44	2.27	16.89	30.00	13.11
84.280	15.97	1.73	0.58	18.28	30.00	11.72
120.415	18.52	2.14	- 3.80	16.86	30.00	13.14
150.161	20.42	2.36	1.17	23.95	30.00	6.05
180.196	20.93	2.57	- 3.46	20.04	30.00	9.96
199.996	22.53	2.65	- 1.50	23.68	30.00	6.32
217.733	21.51	2.88	- 1.61	22.78	30.00	7.22
233.025	22.84	2.95	- 3.67	22.12	37.00	14.88
400.000	16.51	4.05	4.28	24.84	37.00	12.16
600.013	19.94	5.23	- 0.78	24.39	37.00	12.61
799.994	22.97	6.18	0.46	29.61	37.00	7.39
841.000	23.74	6.30	- 1.87	28.17	37.00	8.83
* 1000.000	24.89	6.96	2.91	34.76	37.00	2.24

Remark : 1. All reading are Quasi-Peak values.
 2. The worst emission was detected at 1000.000MHz with corrected signal level of 34.76dB μ V/m (limit was 37.0dB μ V/m) when the antenna was at vertical polarization and was at 1.72m high and the turn table was at 73° .
 3. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna

Date of Test :	Jan. 31, 2001	Temperature :	22.6°C
EUT :	17" LCD Color Monitor	Humidity :	65%
Test Mode :	60KHz/1024*768/75Hz	LCD Panel :	#1, Chi Mei

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Limits dB μ V/m	Margin dB
50.430	14.99	1.31	6.33	22.63	30.00	7.37
75.650	12.80	1.67	7.73	22.20	30.00	7.80
126.025	19.48	2.18	- 3.90	17.76	30.00	12.24
160.023	20.71	2.42	- 3.90	19.23	30.00	10.77
200.013	21.09	2.65	- 2.73	21.01	30.00	8.99
240.025	21.86	3.05	- 1.81	23.10	37.00	13.90
282.240	24.02	3.22	- 0.45	26.79	37.00	10.21
293.511	24.41	3.44	- 1.08	26.77	37.00	10.23
400.014	16.09	4.05	6.96	27.10	37.00	9.90
600.016	19.78	5.23	- 2.27	22.74	37.00	14.26
800.033	22.95	6.18	0.38	29.51	37.00	7.49
999.998	24.52	6.96	3.01	34.49	37.00	2.51

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Limits dB μ V/m	Margin dB
39.602	19.12	1.17	2.06	22.35	30.00	7.65
43.020	19.10	1.23	1.77	22.10	30.00	7.90
50.432	15.39	1.31	2.09	18.79	30.00	11.21
59.379	13.26	1.43	1.48	16.17	30.00	13.83
73.018	13.95	1.65	0.89	16.49	30.00	13.51
120.038	18.49	2.14	- 3.16	17.47	30.00	12.53
150.096	20.42	2.36	1.27	24.05	30.00	5.95
200.003	22.53	2.65	- 1.23	23.95	30.00	6.05
240.038	22.56	3.05	- 3.24	22.37	37.00	14.63
400.014	16.51	4.05	7.63	28.19	37.00	8.81
420.250	16.63	4.19	1.63	22.45	37.00	14.55
600.033	19.94	5.23	- 2.43	22.74	37.00	14.26
800.002	22.97	6.18	0.88	30.03	37.00	6.97
880.511	24.44	6.66	- 0.37	30.73	37.00	6.27
999.998	24.89	6.96	- 1.45	30.40	37.00	6.60

Remark : All reading are Quasi-Peak values.

Date of Test :	Jan. 31, 2001	Temperature :	22.6°C
EUT :	17" LCD Color Monitor	Humidity :	65%
Test Mode :	80KHz/1280*1024/75Hz	LCD Panel :	#1, Chi Mei

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
48.069	15.72	1.30	4.30	21.32	30.00	8.68
54.079	13.40	1.36	1.90	16.66	30.00	13.34
60.090	12.01	1.44	6.60	20.05	30.00	9.95
80.800	14.04	1.69	2.67	18.40	30.00	11.60
84.122	14.75	1.72	1.79	18.26	30.00	11.74
168.289	20.98	2.53	- 0.80	22.71	30.00	7.29
192.298	20.78	2.68	- 2.29	21.17	30.00	8.83
200.023	21.09	2.65	- 3.03	20.71	30.00	9.29
228.364	22.14	2.85	0.42	25.41	30.00	4.59
400.002	16.09	4.05	10.25	30.39	37.00	6.61
600.000	19.78	5.23	- 0.69	24.32	37.00	12.68
800.000	22.95	6.18	1.32	30.45	37.00	6.55
841.248	24.49	6.30	1.84	32.63	37.00	4.37
999.999	24.52	6.96	3.05	34.53	37.00	2.47

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
40.566	19.10	1.21	4.15	24.46	30.00	5.54
78.110	15.01	1.67	5.41	22.09	30.00	7.91
150.219	20.42	2.36	0.62	23.40	30.00	6.60
162.253	21.36	2.42	0.44	24.22	30.00	5.78
168.250	20.77	2.53	0.74	24.04	30.00	5.96
192.280	23.02	2.68	- 0.87	24.83	30.00	5.17
198.299	22.42	2.63	- 0.84	24.21	30.00	5.79
200.007	22.53	2.65	- 1.39	23.79	30.00	6.21
228.358	22.23	2.85	- 0.65	24.43	30.00	5.57
258.384	22.94	3.02	3.16	29.12	37.00	7.88
400.000	16.51	4.05	4.59	25.15	37.00	11.85
600.001	19.94	5.23	0.29	25.46	37.00	11.54
800.010	22.97	6.18	0.42	29.57	37.00	7.43
841.259	23.74	6.30	- 1.48	28.56	37.00	8.44

Remark : All reading are Quasi-Peak values.

Date of Test : Feb. 23, 2001 Temperature : 24.6°C
 EUT : 17" LCD Color Monitor Humidity : 62%
 Test Mode : 46KHz/800*600/75Hz LCD Panel : #2, Chi Mei

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
56.057	12.95	1.42	2.50	16.87	30.00	13.13
84.086	14.75	1.72	4.33	20.80	30.00	9.20
112.115	18.57	2.03	0.90	21.50	30.00	8.50
140.144	19.99	2.30	0.25	22.54	30.00	7.46
168.173	20.98	2.53	- 3.29	20.22	30.00	9.78
196.202	20.63	2.69	- 3.25	20.07	30.00	9.93
200.000	21.09	2.65	- 2.99	20.75	30.00	9.25
224.230	21.96	2.84	- 2.95	21.85	30.00	8.15
252.259	22.24	2.98	- 2.30	22.92	37.00	14.08
400.000	16.09	4.05	8.08	28.22	37.00	8.78
600.000	19.78	5.23	6.86	31.87	37.00	5.13
800.000	22.95	6.18	3.61	32.74	37.00	4.26
1000.000	24.52	6.96	2.33	33.81	37.00	3.19

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Limits dB μ V/m	Margin dB
39.656	19.11	1.17	1.60	21.88	30.00	8.12
84.085	15.95	1.72	2.71	20.38	30.00	9.62
112.114	17.33	2.03	6.21	25.57	30.00	4.43
140.142	19.50	2.30	1.60	23.40	30.00	6.60
168.171	20.77	2.53	- 2.40	20.90	30.00	9.10
189.192	22.34	2.71	- 1.22	23.83	30.00	6.17
224.228	21.54	2.84	0.19	24.57	30.00	5.43
400.000	16.51	4.05	6.82	27.38	37.00	9.62
600.000	19.94	5.23	4.84	30.01	37.00	6.99
800.000	22.97	6.18	3.50	32.65	37.00	4.35
1000.000	24.89	6.96	0.67	32.52	37.00	4.48

Remark : All reading are Quasi-Peak values.

Date of Test : Feb. 23, 2001 Temperature : 24.6°C
 EUT : 17" LCD Color Monitor Humidity : 62%
 Test Mode : 60KHz/1024*768/75Hz LCD Panel : #2, Chi Mei

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Limits dB μ V/m	Margin dB
56.043	12.95	1.42	2.86	17.23	30.00	12.77
72.568	12.32	1.65	2.21	16.18	30.00	13.82
84.052	14.75	1.72	0.76	17.23	30.00	12.77
112.069	18.57	2.03	1.46	22.06	30.00	7.94
140.083	19.99	2.30	- 0.54	21.75	30.00	8.25
168.103	20.98	2.53	- 3.28	20.23	30.00	9.77
200.000	21.09	2.65	- 2.15	21.59	30.00	8.41
252.156	22.24	2.98	- 2.09	23.13	37.00	13.87
280.173	24.18	3.23	- 2.09	25.32	37.00	11.68
400.000	16.09	4.05	10.01	30.15	37.00	6.85
600.000	19.78	5.23	7.59	32.60	37.00	4.40
800.000	22.95	6.18	2.29	31.42	37.00	5.58
1000.000	24.52	6.96	3.35	34.83	37.00	2.17

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Limits dB μ V/m	Margin dB
46.900	17.11	1.27	1.33	19.71	30.00	10.29
63.044	12.91	1.49	6.99	21.39	30.00	8.61
84.052	15.95	1.72	2.11	19.78	30.00	10.22
112.070	17.33	2.03	6.39	25.75	30.00	4.25
140.087	19.50	2.30	1.25	23.05	30.00	6.95
187.290	22.80	2.66	- 0.37	25.09	30.00	4.91
200.000	22.53	2.65	- 1.96	23.22	30.00	6.78
224.140	21.54	2.84	- 0.26	24.12	30.00	5.88
400.000	16.51	4.05	10.83	31.39	37.00	5.61
600.000	19.94	5.23	5.71	30.88	37.00	6.12
800.000	22.97	6.18	3.31	32.46	37.00	4.54
1000.000	24.89	6.96	- 0.16	31.69	37.00	5.31

Remark : All reading are Quasi-Peak values.

Date of Test : Feb. 23, 2001 Temperature : 24.6°C

EUT : 17" LCD Color Monitor Humidity : 62%

Test Mode : 80KHz/1280*1024/75Hz LCD Panel : #2, Chi Mei

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
56.083	12.95	1.42	6.18	20.55	30.00	9.45
67.301	11.98	1.59	8.36	21.93	30.00	8.07
72.910	12.38	1.65	9.12	23.15	30.00	6.85
84.124	14.75	1.72	4.83	21.30	30.00	8.70
140.207	19.99	2.30	0.02	22.31	30.00	7.69
168.249	20.98	2.53	1.92	25.43	30.00	4.57
179.466	20.49	2.56	- 1.12	21.93	30.00	8.07
200.000	21.09	2.65	- 1.12	22.62	30.00	7.38
224.337	21.96	2.84	- 2.86	21.94	30.00	8.06
400.007	16.09	4.05	8.33	28.47	37.00	8.53
600.010	19.78	5.23	5.60	30.61	37.00	6.39
785.341	22.66	6.12	1.27	30.05	37.00	6.95
800.011	22.95	6.18	3.68	32.81	37.00	4.19
897.329	23.86	6.61	- 1.14	29.33	37.00	7.67
999.999	24.52	6.96	3.04	34.52	37.00	2.48

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
39.259	19.12	1.16	2.07	22.35	30.00	7.65
40.570	19.10	1.21	4.30	24.61	30.00	5.39
72.512	13.78	1.65	4.95	20.38	30.00	9.62
112.166	17.33	2.03	3.63	22.99	30.00	7.01
157.034	20.90	2.37	3.55	26.82	30.00	3.18
179.467	21.00	2.56	1.28	24.84	30.00	5.16
196.294	23.15	2.69	- 2.45	23.39	30.00	6.61
200.000	22.53	2.65	- 1.17	24.01	30.00	5.99
207.506	22.08	2.68	- 0.68	24.08	30.00	5.92
224.332	21.54	2.84	- 0.26	24.12	30.00	5.88
400.006	16.51	4.05	6.72	27.28	37.00	9.72
600.010	19.94	5.23	3.54	28.71	37.00	8.29
785.172	22.58	6.12	- 0.92	27.78	37.00	9.22
800.015	22.97	6.18	2.40	31.55	37.00	5.45
999.999	24.89	6.96	- 0.63	31.22	37.00	5.78

Remark : All reading are Quasi-Peak values.

Date of Test :	Feb. 21, 2001	Temperature :	25.2°C
EUT :	17" LCD Color Monitor	Humidity :	64%
Test Mode :	46KHz/800*600/75Hz	LCD Panel :	#3, Unipac

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
56.060	12.95	1.42	1.02	15.39	30.00	14.61
84.089	14.75	1.72	1.79	18.26	30.00	11.74
112.116	18.57	2.03	- 0.93	19.67	30.00	10.33
140.170	19.99	2.30	- 3.42	18.87	30.00	11.13
168.232	20.98	2.53	- 0.35	23.16	30.00	6.84
196.204	20.63	2.69	- 1.93	21.39	30.00	8.61
200.000	21.09	2.65	- 1.56	22.18	30.00	7.82
224.221	21.96	2.84	- 2.81	21.99	30.00	8.01
252.237	22.24	2.98	- 2.82	22.40	37.00	14.60
280.254	24.18	3.23	- 1.42	25.99	37.00	11.01
400.000	16.09	4.05	10.19	30.33	37.00	6.67
600.000	19.78	5.23	10.30	35.31	37.00	1.69
800.000	22.95	6.18	2.05	31.18	37.00	5.82
999.999	24.52	6.96	0.02	31.50	37.00	5.50

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Limits dB μ V/m	Margin dB
54.080	14.20	1.36	5.33	20.89	30.00	9.11
56.056	14.07	1.42	6.96	22.45	30.00	7.55
84.089	15.95	1.72	5.56	23.23	30.00	6.77
112.112	17.33	2.03	1.70	21.06	30.00	8.94
140.140	19.50	2.30	0.30	22.10	30.00	7.90
168.099	20.77	2.53	- 0.17	23.13	30.00	6.87
196.191	23.15	2.69	- 1.27	24.57	30.00	5.43
224.232	21.54	2.84	0.30	24.68	30.00	5.32
252.252	22.94	2.98	- 1.38	24.54	37.00	12.46
400.000	16.51	4.05	9.11	29.67	37.00	7.33
600.000	19.94	5.23	9.34	34.51	37.00	2.49
800.000	22.97	6.18	4.45	33.60	37.00	3.40
999.999	24.89	6.96	0.00	31.85	37.00	5.15

Remark : All reading are Quasi-Peak values.

Date of Test : Feb. 21, 2001 Temperature : 25.2°C
 EUT : 17" LCD Color Monitor Humidity : 64%
 Test Mode : 60KHz/1024*768/75Hz LCD Panel : #3, Unipac

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Limits dB μ V/m	Margin dB
56.032	12.95	1.42	7.71	22.08	30.00	7.92
84.050	14.75	1.72	1.22	17.69	30.00	12.31
112.065	18.57	2.03	- 2.19	18.41	30.00	11.59
140.082	19.99	2.30	0.83	23.12	30.00	6.88
168.100	20.98	2.53	- 2.03	21.48	30.00	8.52
196.116	20.63	2.69	- 2.50	20.82	30.00	9.18
200.000	21.09	2.65	- 1.98	21.76	30.00	8.24
224.132	21.96	2.84	- 1.89	22.91	30.00	7.09
252.149	22.24	2.98	- 1.27	23.95	37.00	13.05
400.000	16.09	4.05	9.04	29.18	37.00	7.82
600.000	19.78	5.23	9.35	34.36	37.00	2.64
800.000	22.95	6.18	1.90	31.03	37.00	5.97
999.999	24.52	6.96	0.65	32.13	37.00	4.87

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Limits dB μ V/m	Margin dB
56.034	14.07	1.42	4.19	19.68	30.00	10.32
84.050	15.95	1.72	5.00	22.67	30.00	7.33
112.067	17.33	2.03	1.13	20.49	30.00	9.51
140.082	19.50	2.30	- 0.04	21.76	30.00	8.24
168.099	20.77	2.53	- 1.30	22.00	30.00	8.00
196.116	23.15	2.69	- 2.46	23.38	30.00	6.62
200.000	22.53	2.65	- 0.52	24.66	30.00	5.34
224.132	21.54	2.84	- 1.81	22.57	30.00	7.43
252.151	22.94	2.98	- 1.24	24.68	37.00	12.32
280.166	21.73	3.23	- 1.42	23.54	37.00	13.46
400.000	16.09	4.05	9.04	29.18	37.00	7.82
600.000	19.78	5.23	9.35	34.36	37.00	2.64
800.000	22.95	6.18	1.90	31.03	37.00	5.97
999.999	24.52	6.96	0.65	32.13	37.00	4.87

Remark : All reading are Quasi-Peak values.

Date of Test :	Feb. 21, 2001	Temperature :	25.2°C
EUT :	17" LCD Color Monitor	Humidity :	64%
Test Mode :	80KHz/1280*1024/75Hz	LCD Panel :	#3, Unipac

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
40.541	17.50	1.21	- 1.02	17.69	30.00	12.31
84.128	14.75	1.72	1.41	17.88	30.00	12.12
128.994	19.59	2.16	- 1.31	20.44	30.00	9.56
157.035	20.41	2.37	1.13	23.91	30.00	6.09
168.254	20.98	2.53	2.99	26.50	30.00	3.50
179.468	20.49	2.56	- 2.23	20.82	30.00	9.18
196.294	20.63	2.69	- 1.27	22.05	30.00	7.95
200.000	21.09	2.65	- 1.28	22.46	30.00	7.54
224.335	21.96	2.84	0.36	25.16	30.00	4.84
400.000	16.09	4.05	8.18	28.32	37.00	8.68
600.000	19.78	5.23	7.22	32.23	37.00	4.77
650.000	20.30	5.56	3.29	29.15	37.00	7.85
800.000	22.95	6.18	1.57	30.70	37.00	6.30
999.999	24.52	6.96	1.43	32.91	37.00	4.09

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
40.572	19.10	1.21	6.41	26.72	30.00	3.28
84.129	15.95	1.72	4.09	21.76	30.00	8.24
157.038	20.90	2.37	2.03	25.30	30.00	4.70
168.254	20.77	2.53	1.67	24.97	30.00	5.03
185.079	22.33	2.63	0.83	25.79	30.00	4.21
196.296	23.15	2.69	- 0.38	25.46	30.00	4.54
200.000	22.53	2.65	- 1.39	23.79	30.00	6.21
224.336	21.54	2.84	1.40	25.78	30.00	4.22
229.901	22.27	2.88	- 2.18	22.97	30.00	7.03
400.000	16.51	4.05	7.31	27.87	37.00	9.13
600.000	19.94	5.23	8.07	33.24	37.00	3.76
785.162	22.58	6.12	1.45	30.15	37.00	6.85
800.000	22.97	6.18	2.46	31.61	37.00	5.39
999.999	24.89	6.96	2.30	34.15	37.00	2.85

Remark : All reading are Quasi-Peak values.

4. DEVIATION TO TEST SPECIFICATIONS

【NONE】

5. MODIFICATIONS TO EUT

1. Added two ferrite cores on both end of video cable.
2. Added a ferrite core on the key part of cable.
3. Added aluminum foil on cable from main board (CN301) to DC connector.
4. Added conductive fabric tape on cable from bottom board to DC connector.
5. Added conductive fabric tape on cable from main board to LCD panel control board.
6. Added a ferrite core on the conductive fabric tape from main board to LCD panel control board. (only for unipac LCD panel)
7. Added three ferrite cores on the FPC from LCD panel control board to LCD panel. (only for unipac LCD panel)