

EXHIBIT 4

Test Report

Test Report

TTEMC-F99028

APPLICATION FOR CERTIFICATION

On Behalf of
Acer Peripherals, Inc.
Monitor

Model : Belinea 10 30 70

FCC ID : JVP7379G

Prepared for : Acer Peripherals, Inc.
157 Shan-Ying Road, Kweishan,
Taoyuan 333, 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.

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File Number : ATM-G99080
Report Number : TTEMC-F99028
Date of Test : Mar. 03 ~ 05, 1999
Date of Report : Mar. 10, 1999

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TOK99-F003**TEST REPORT CERTIFICATION**

Applicant : Acer Peripherals, Inc.
Manufacturer : Acer Peripherals, Inc.
FCC ID : JVP7379G
EUT Description : Monitor
(A) MODEL NO. : Belinea 10 30 70
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : AC 120V/60Hz

Measurement Procedure Used :

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 1997
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 FCC Part 15B Class B limits both radiated and conducted emissions.

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

This report applied 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 : Mar. 03 ~ 05, 1999

Prepared by :

Cherry Wang 3/8/99
(CHERRY WANG)

Test Engineer :

Allen Wang 3/19/99
(ALLEN WANG)

Approve & Authorized Signer :

Jackie Deng 3/19/99
(JACKIE DENG)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	17" Monitor
Model Number	:	Belinea 10 30 70
Serial Number	:	N/A
Applicant	:	Acer Peripherals, Inc. 157 Shan-Ying Road, Kweishan, Taoyuan 333, Taiwan, R.O.C.
Manufacturer	:	Acer Peripherals, Inc. 157 Shan-Ying Road, Kweishan, Taoyuan 333, Taiwan, R.O.C.
Synchronization	:	30 - 95KHz horizontal 50 - 160Hz vertical
Resolution	:	max. 1280 * 1024 pixels
CRT	:	Mitsubishi, M/N M41KZV31X81 S/N 9A03651ZZ
VGA Signal Cable (D-Sub)	:	Shielded, Detachable, 1.5m Bonded two ferrite cores
BNC Cable	:	Shielded, Detachable, 1.5m Bonded two ferrite cores
Power Cord	:	Non-Shielded, Detachable, 1.8m
Date of Receipt of Sample	:	Mar. 01, 1999
Date of Test	:	Mar. 03 ~ 05, 1999

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Model Number	:	V70MA/H61
Serial Number	:	N/A
FCC ID	:	By DoC
Manufacturer	:	Acer Peripherals, Inc.
Switching Power Supply	:	API, M/N API-7675
3.5" Floppy Driver	:	S/N 022904
Hard Disk Driver	:	Panasonic, M/N JU-256A276P
CD-ROM	:	Quantum, M/N Bigfoot™ TX
Fax/Modem Card	:	Hitachi, M/N GD-2000
VGA Card	:	CIS, M/N WS-514WDD
Disk Ctrl Card	:	Built On Motherboard
Power Cord	:	Built On Motherboard
	:	Non-Shielded, Detachable, 1.8m

1.2.2. PS2 KEYBOARD

Model Number	:	5121
Serial Number	:	J83300813
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
	:	Non-Shielded, Undetachable, 2.0m
Data Cable	:	Shielded, Detachable, 1.2m

1.2.4. MODEM

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

1.2.5. PS2 MOUSE

Model Number	:	M-S35
Serial Number	:	LZA82103160
FCC ID	:	DZL211029
Manufacturer	:	Logitech
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.6. USB MOUSE #1

Model Number	:	M-UB48
Serial Number	:	LZB81900212
FCC ID	:	DZL211137
Manufacturer	:	Logitech
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.7. USB MOUSE #2

Model Number	:	M-UB48
Serial Number	:	LZB81900216
FCC ID	:	DZL211137
Manufacturer	:	Logitech
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.8. SPEAKER

Model Number	:	J-008
Serial Number	:	97-C-009783-T
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

1.2.9. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08465
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.10. JOYSTICK

Model Number	:	1FD05015
Serial Number	:	N/A
Manufacturer	:	Rambo
Data Cable	:	Non-Shielded, Undetachable, 1.6m

1.2.11. MICROPHONE

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

1.2.12. TELEPHONE

Model Number	:	K-2500TRP
Serial Number	:	1015395
Manufacturer	:	Kuo Yang
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.13. TELEPHONE LINE *1PC

Telephone Line	:	Non-Shielded, Detachable, 1.8m
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1.3. Description of Test Facility

Site Description (No. 2 Open Site)	:	Jul. 15, 1996 File on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
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Site Description (Anechoic Chamber)	:	Aug. 22, 1997 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
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Name of Firm	:	Taiwan Tokin EMC Eng. Corp.
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Site Location	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
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NVLAP lab. Code	:	200077-0
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Tok99-0003

2. POWERLINE CONDUCTED TEST

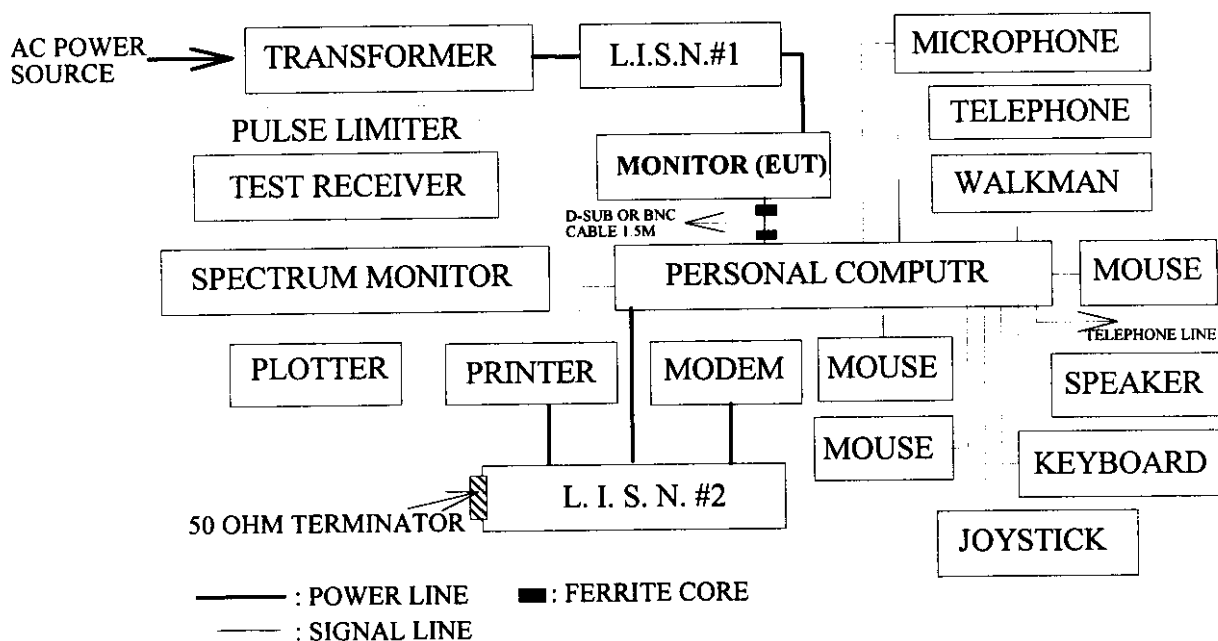
2.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESH3	880647/035	Jun. 24, 98'	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-881-13	Apr. 14, 98'	1 Year
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-855-9	Apr. 14, 98'	1 Year

2.2. Block Diagram of Test Setup

**** EUT Power Connects to L.I.S.N. Directly ****



2.3. Powerline Conducted Emission Limit (CLASS B)

Frequency	Maximum RF Line Voltage	
	uV	dBuV
0.45MHz ~ 30Mhz	250	48

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 tend to maximize its emission characteristics in a normal application.

2.4.1. Monitor (EUT)

Model Number	:	Belinea 10 30 70
Serial Number	:	N/A
FCC ID.	:	JVP7379G
Manufacturer	:	Acer Peripherals, Inc.
CRT	:	Mitsubishi, M/N M41KZV31X81 S/N 9A03651ZZ
VGA Signal Cable (D-Sub)	:	Shielded, Detachable, 1.5m Bonded two ferrite cores
BNC Cable	:	Shielded, Detachable, 1.5m Bonded two ferrite cores
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. Turn on the power of all equipments.

2.5.3. Personal computer read data from disk.

2.5.4. Personal computer running self-test program and sent "H" character to Monitor (EUT), the screen of monitor (EUT) displayed and full 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 drove and operated in turn during all testing.

70699-5003

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 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 450KHz to 30MHz was checked.

Four kinds of horizontal working frequency with two kinds of I/O cables were investigated during pre-scanning and report two worst modes (91.146KHz/1280x1024; D-Sub & BNC Cable) in section 2.8., the others test data were attached within Appendix I. The details of tested modes are as follows :

Four kinds of horizontal working frequency and resolution:

	<u>Horizontal-Freq.</u>	<u>Resolution</u>	<u>Vertical-Freq.</u>
(1)	43.269KHz	640 x 480	85.008Hz
(2)	63.619KHz	800 x 600	100.030Hz
(3)	80.741KHz	1024 x 768	99.803Hz
(4)	91.146KHz	1280 x 1024	85.024Hz

Two kinds of I/O cables:

- (1) 1.5m D-Sub cable (bonded two ferrite cores)
- (2) 1.5m BNC cable (bonded two ferrite cores)

2.7. Test Results

PASSED. Please refer to the following pages.

2.8. Line Conducted RF Voltage Measurement Results

The frequency range from 450KHz to 30 MHz was investigated.

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

Date of Test : Mar. 05, 1999 Temperature : 22 °C

EUT : Monitor Humidity : 46 %

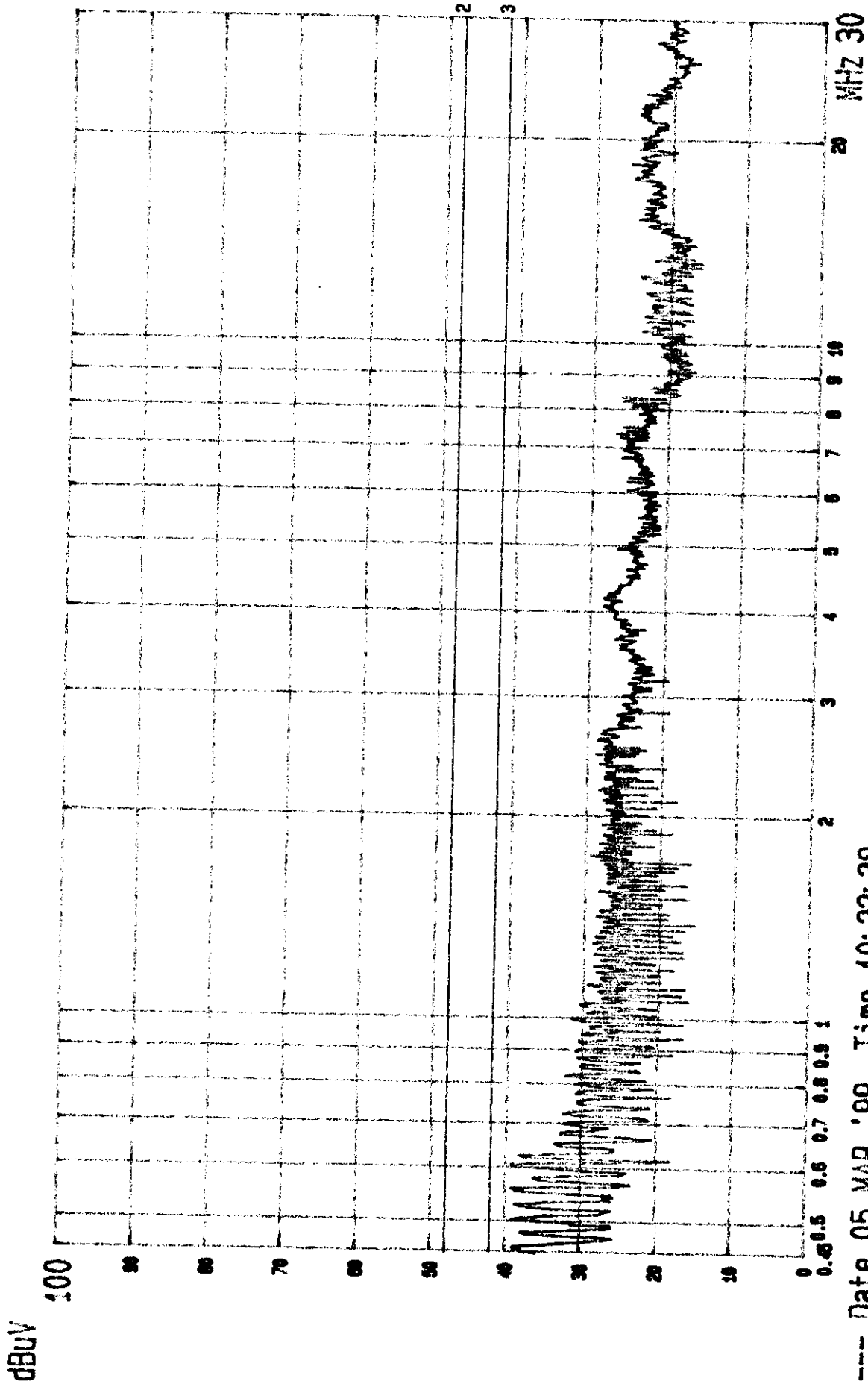
Test Mode : 91.146KHz/1280*1024, 85.024Hz ; D-Sub Cable

Frequency (MHz)	Factor dB	Measurement (dBuV)		Reading (dBuV)		Limits (dBuV)	Margin (dBuV)	
		VA	VB	VA	VB		VA	VB
0.4521	0.5	37.7	*	38.2	*	48.0	9.8	*
0.4581	0.5	*	37.6	*	38.1	48.0	*	9.9
0.6009	0.5	38.2	*	38.7	*	48.0	9.3	*
0.6357	0.5	*	37.3	*	37.8	48.0	*	10.2
1.7314	0.5	*	28.6	*	29.1	48.0	*	18.9
1.7992	0.5	28.3	*	28.8	*	48.0	19.2	*
2.5295	0.5	27.6	*	28.1	*	48.0	19.9	*
2.5863	0.5	*	27.2	*	27.7	48.0	*	20.3
4.2881	0.8	28.1	*	28.9	*	48.0	19.1	*
4.3675	0.8	*	21.6	*	22.4	48.0	*	25.6
18.1238	1.0	27.4	*	28.4	*	48.0	19.6	*
18.2674	1.0	*	27.3	*	28.3	48.0	*	19.7

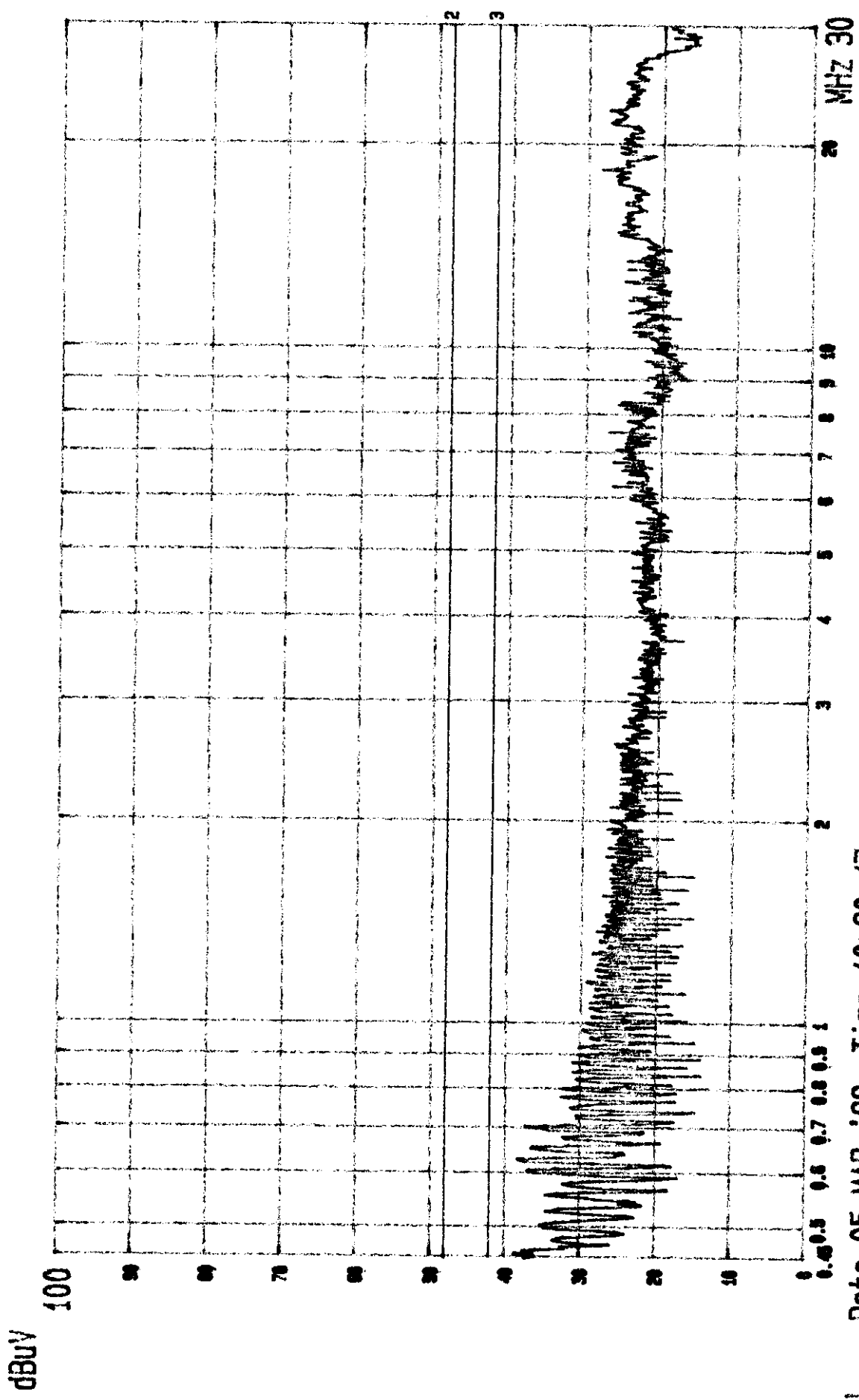
Remark : 1. All reading are Quasi-Peak values.

2. Factor = Insertion Loss + Cable Loss

3. The worst emission was detected at 0.6009MHz with corrected signal level of 38.7dBuV (limit was 48dBuV) when the VA side of the EUT was connected to L.I.S.N.



----- Date 05.MAR.'99 Time 10:22:39
ACER EUT: MONITOR M/N: BELINEA 10 30 70
LINE: VA. MENO: (1280X1024; 91.146KHZ) D-SUB
(PEAK VALUE) TTEMC. PAGE: 002.



--- Date 05.MAR.'99 Time 10:20:47

ACER EUT: MONITOR

LINE: VB.

M/N: BELINEA 10 30 70

MEN0: (1280X1024; 91.146KHz) D-SUB

PAGE: 001.
(PEAK VALUE) TTEMC.

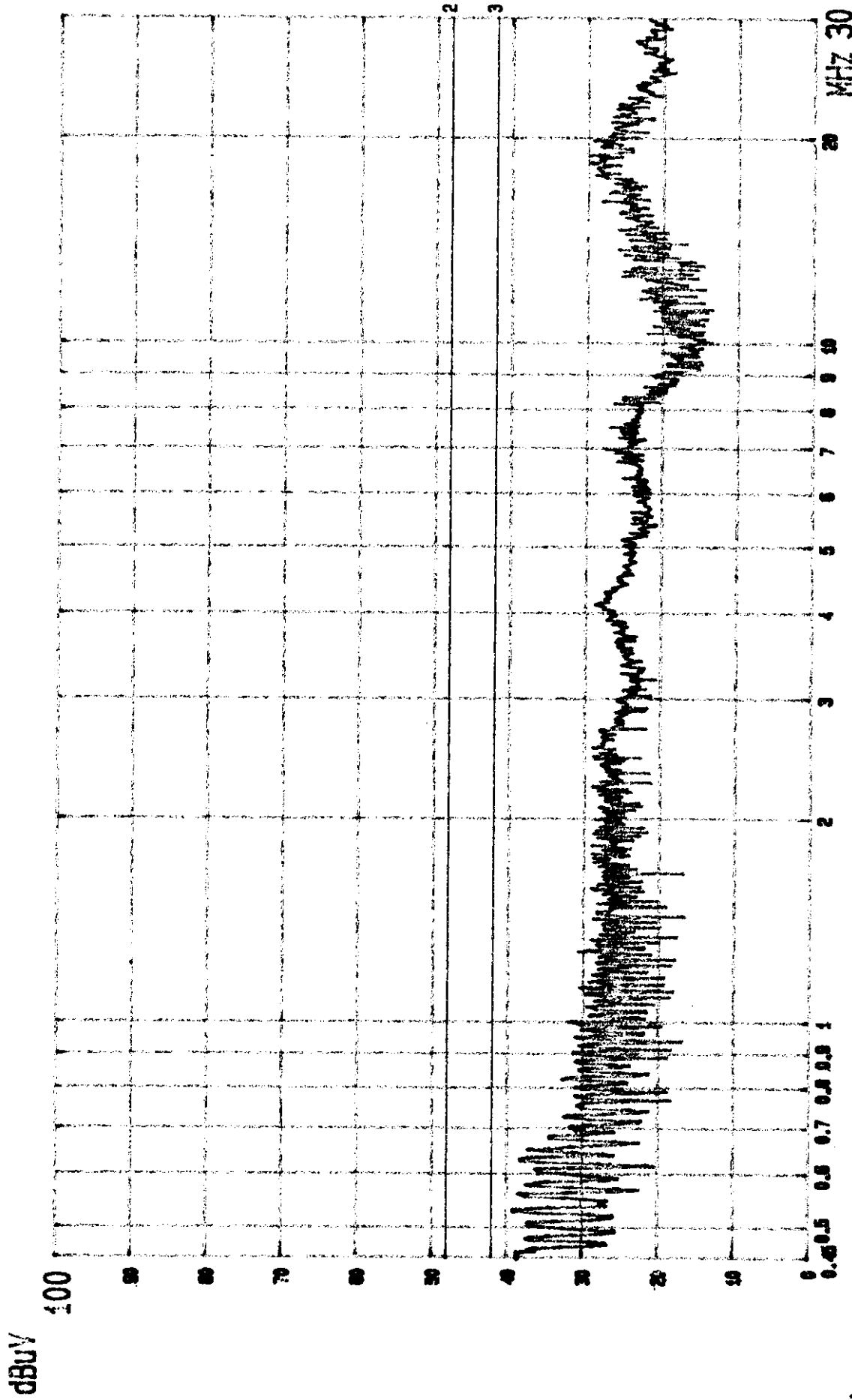
Date of Test : Mar. 05, 1999 Temperature : 22 °C

EUT : Monitor Humidity : 46 %

Test Mode : 91.146KHz/1280*1024, 85.024Hz ; BNC Cable

Frequency (MHz)	Factor dB	Measurement (dBuV)		Reading (dBuV)		Limits (dBuV)	Margin (dBuV)	
		VA	VB	VA	VB		VA	VB
0.5038	0.5	*	34.3	*	34.8	48.0	*	13.2
0.5298	0.5	38.1	*	38.6	*	48.0	9.4	*
0.5816	0.5	37.4	*	37.9	*	48.0	10.1	*
0.6416	0.5	*	36.7	*	37.2	48.0	*	10.8
1.7578	0.5	26.3	*	26.8	*	48.0	21.2	*
1.7632	0.5	*	26.4	*	26.9	48.0	*	21.1
4.0639	0.8	*	20.6	*	21.4	48.0	*	26.6
4.0714	0.5	27.6	*	28.1	*	48.0	19.9	*
6.3132	0.8	23.7	*	24.5	*	48.0	23.5	*
7.4683	0.8	*	23.8	*	24.6	48.0	*	23.4
18.0396	1.0	29.5	*	30.5	*	48.0	17.5	*
18.6317	1.0	*	29.6	*	30.6	48.0	*	17.4

- Remark :
1. All reading are Quasi-Peak values.
 2. Factor = Insertion Loss + Cable Loss
 3. The worst emission was detected at 0.5298MHz with corrected signal level of 38.6dBuV (limit was 48dBuV) when the VA side of the EUT was connected to L.I.S.N.



--- Date 05.MAR.'99 Time 10:15:43

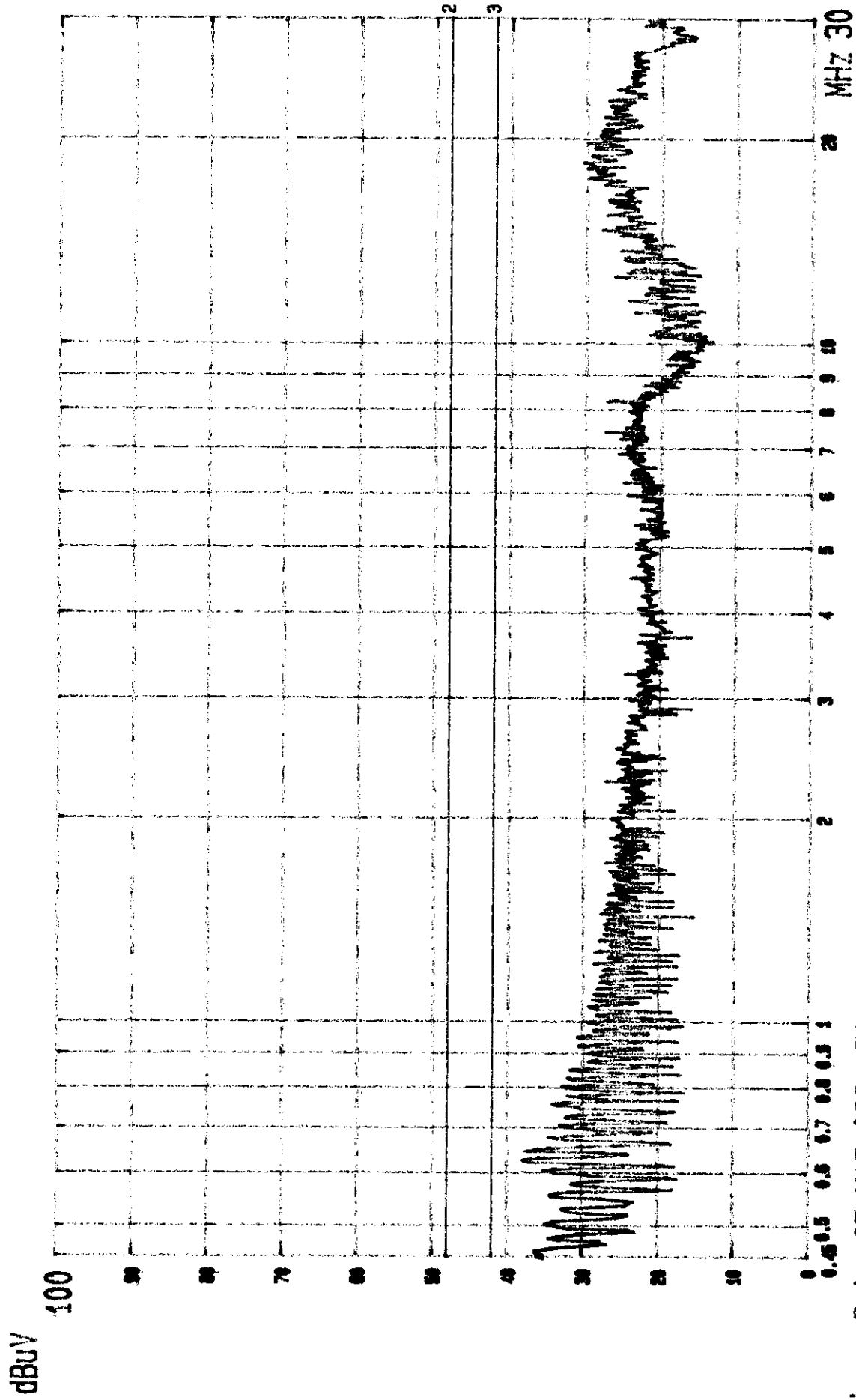
ACER EUT: MONITOR

LINE: VA.

M/N: BELINEA 10 30 70

MENQ: (1280X1024; 91.146KHz) BNC

PAGE: 001.
(PEAK VALUE) TTENC.



Date 05.MAR.'99 Time 10:18:47
 ACER EUT: MONITOR
 LINE: VB.
 M/N: BELINEA 10 30 70
 MENO: (1280X1024; 91.146KHz) BNC
 (PEAK VALUE) TTEMPC.

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

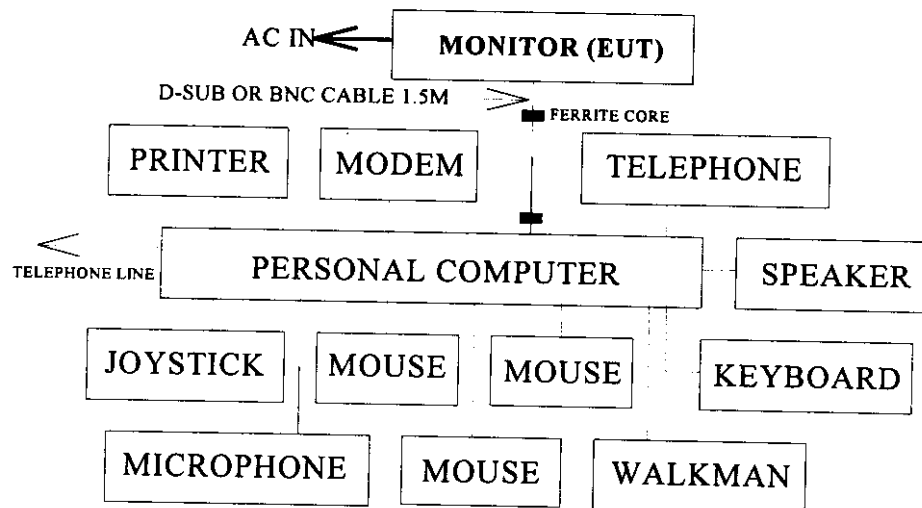
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8593A	3212A01727	Jul.25, 98'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	May.13,98'	1 Year
3.	Broadband Antenna	Schwarzbeck	BBA9106	A3L	Dec.09, 98'	1 Year
4.	Broadband Antenna	Schwarzbeck	UHALP9107	A3H	Dec.09, 98'	1 Year

3.1.2. For No. 2 Open Site

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESVP	893202/001	Jul. 24, 98'	1 Year
2.	Broadband Antenna	Chase	VBA6106A	1240	Jul. 15, 98'	1 Year
3.	Broadband Antenna	Chase	UPA6109	1048	Jul. 15, 98'	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 & Open Field Test Site Setup Diagram (3M)

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1METER TO 4 METERS

3 METERS

EUT

0.8
METER

TURN TABLE

GROUND PLANE

3.3. Radiation Limit (CLASS B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		uV/M	dBuV/M
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Remark : (1) Emission level (dBuV/M) = 20 log Emission level (uV/M)
 (2) The tighter limit applies at the edge between two frequency bands.
 (3) 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 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 was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 3 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 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 :

Four kinds of horizontal working frequency and resolution:

<u>Horizontal-Freq.</u>	<u>Resolution</u>	<u>Vertical-Freq.</u>
(1) 43.269KHz	640 x 480	85.008Hz
(2) 63.619KHz	800 x 600	100.030Hz
(3) 80.741KHz	1024 x 768	99.803Hz
(4) 91.146KHz	1280 x 1024	85.024Hz

Two kinds of I/O cables:

- (1) 1.5m D-Sub cable (bonded two ferrite cores)
- (2) 1.5m BNC cable (bonded two ferrite cores)

Finally, remeasured the worst mode (91.146KHz/1280x1024; D-Sub Cable) operating situation at No. 2 Open Field Test Site and all the test results are listed in section 3.8.

3.7. Test Results

PASSED. Please refer to the following pages.

3.8. Radiated Emission Measurement Results

The frequency spectrum from 30 MHz to 1000MHz was investigated. All the emissions not reported below were too low against the FCC CLASS B limit.

Date of Test : Mar. 04, 1999 Temperature : 27 °C
 EUT : Monitor Humidity : 73 %
 Test Mode : 91.146KHz/1280*1024, 85.024Hz ; D-Sub Cable

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level	
			Horizontal dBuV	Horizontal dBuV/m	Limits dBuV/m	Margin dBuV/m
58.556	12.59	2.47	14.20	29.26	40.00	10.74
71.797	12.41	2.82	7.70	22.93	40.00	17.07
*117.786	19.21	3.70	14.81	37.72	43.50	5.78
120.010	19.46	3.65	12.70	35.81	43.50	7.69
139.996	20.73	4.04	1.41	26.18	43.50	17.32
151.180	21.10	4.28	0.90	26.28	43.50	17.22
180.016	22.04	4.71	2.30	29.05	43.50	14.45
197.861	22.53	4.90	- 0.60	26.83	43.50	16.67
235.577	22.77	5.48	7.80	36.05	46.00	9.95
240.057	23.12	5.49	11.40	40.01	46.00	5.99
280.186	24.87	5.91	- 1.90	28.88	46.00	17.12
324.423	14.51	6.47	7.13	28.11	46.00	17.89
335.483	15.00	6.53	1.69	23.22	46.00	22.78
353.366	15.76	6.70	10.26	32.72	46.00	13.28
395.745	16.05	7.19	- 2.24	21.00	46.00	25.00
420.275	16.32	7.51	7.07	30.90	46.00	15.10
440.066	16.38	7.72	- 0.36	23.74	46.00	22.26
471.150	16.97	8.06	4.95	29.98	46.00	16.02
515.500	17.85	8.51	- 0.69	25.67	46.00	20.33
588.936	19.03	9.14	3.33	31.50	46.00	14.50

- Remark:
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 117.786MHz with corrected signal level of 37.72dBuV/m (limit was 43.5dBuV/m) when the antenna was at horizontal polarization and was at 1.5m high and the turn table was at 130°
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Mar. 04, 1999 Temperature : 27 °C

EUT : Monitor Humidity : 73 %

Test Mode : 91.146KHz/1280*1024, 85.024Hz ; D-Sub Cable

Frequency MHz	Antenna Cable		Meter Reading		Emission Level	
	Factor dB/m	Loss dB	Vertical dBuV	Vertical dBuV/m	Limits dBuV/m	Margin dBuV/m
48.009	15.00	2.23	9.50	26.73	40.00	13.27
57.627	13.31	2.50	17.79	33.60	40.00	6.40
73.860	14.33	2.84	8.70	25.87	40.00	14.13
*117.787	17.82	3.70	16.31	37.83	43.50	5.67
120.011	17.66	3.65	9.90	31.21	43.50	12.29
135.468	19.08	3.95	1.60	24.63	43.50	18.87
162.213	21.32	4.41	- 0.70	25.03	43.50	18.47
180.000	20.83	4.71	2.40	27.94	43.50	15.56
197.855	21.09	4.90	2.20	28.19	43.50	15.31
235.575	24.40	5.48	4.70	34.58	46.00	11.42
240.057	24.02	5.49	9.81	39.32	46.00	6.68
280.187	24.54	5.91	- 1.70	28.75	46.00	17.25
324.423	15.19	6.47	4.30	25.96	46.00	20.04
353.363	14.89	6.70	9.20	30.79	46.00	15.21
360.032	14.95	6.79	1.80	23.54	46.00	22.46
379.990	14.94	7.14	0.20	22.28	46.00	23.72
440.112	16.48	7.72	1.60	25.80	46.00	20.20
451.396	16.81	7.77	2.70	27.28	46.00	18.72
471.151	17.38	8.06	6.70	32.14	46.00	13.86
515.498	18.22	8.51	- 1.60	25.13	46.00	20.87
588.937	19.36	9.14	3.00	31.50	46.00	14.50

- Remark:
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 117.787MHz with corrected signal level of 37.83dBuV/m (limit was 43.5dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 160°
 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. MODIFICATIONS TO EUT

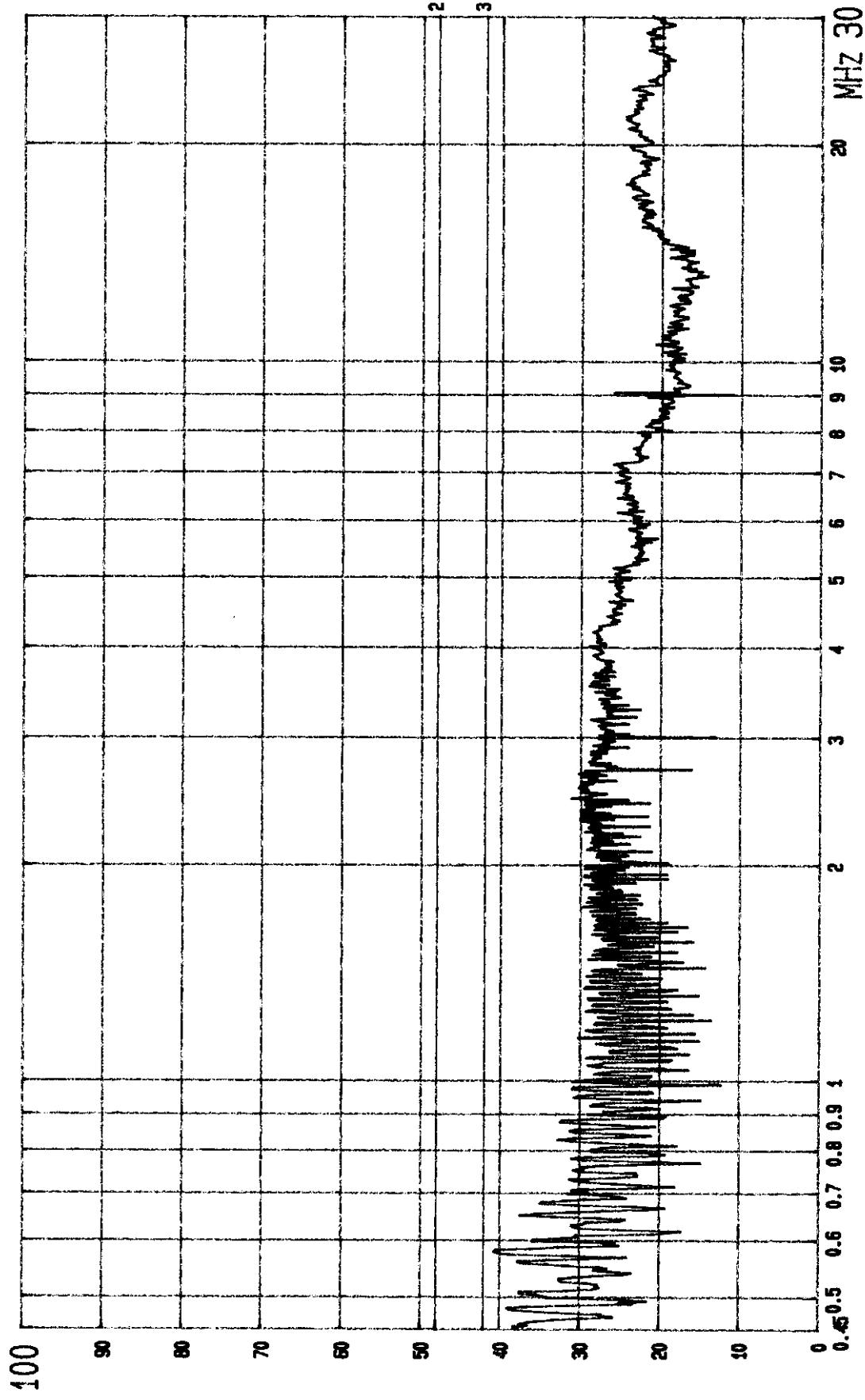
1. A while of shielded cover at all monitor.
2. Added a shielded plate at the back side of video board.
3. Added a ferrite core at the CRT deflection line with 2 turns.
4. Added a ferrite core at the ground wire (from main board to CRT) with 2 turns.
5. Added a ferrite core at the G1 & G2 wire of CRT.
6. Added a ferrite core at the main board to video board's signal line.
7. Added a ferrite core at the line of I/O control board.
8. Added a ferrite core at the line of OSD button control board.
9. Added a ferrite core at the ground wire of AC Input.
10. Added a ferrite core at the H-sync & V-sync's control wire.

APPENDIX I

Conducted Test Data

(Total Pages : 12)

dBuV



--- Date 05.MAR.'99 Time 11:07:01

ACER EUT: MONITOR

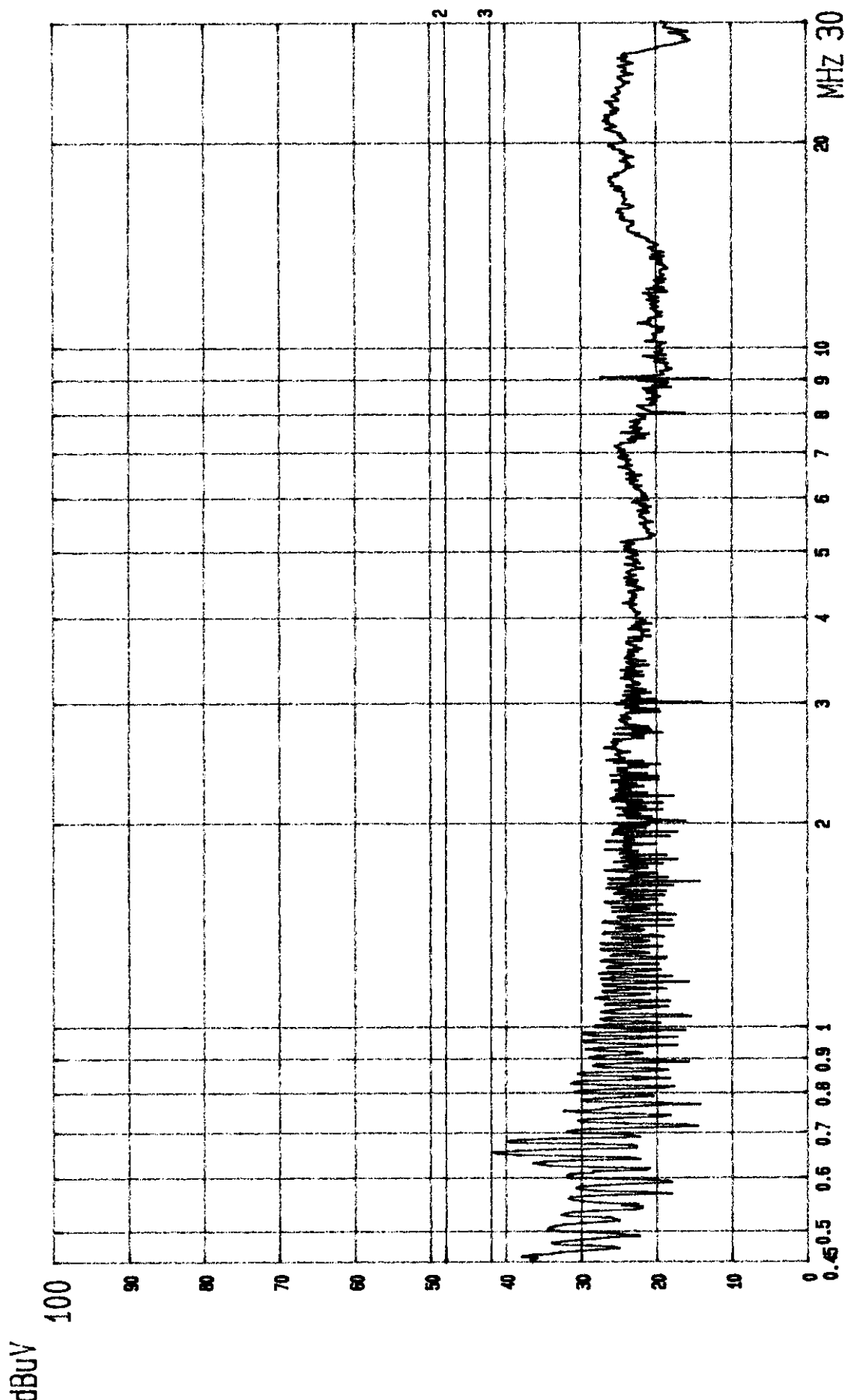
LINE: VA.

M/N: BELINEA 10 30 70

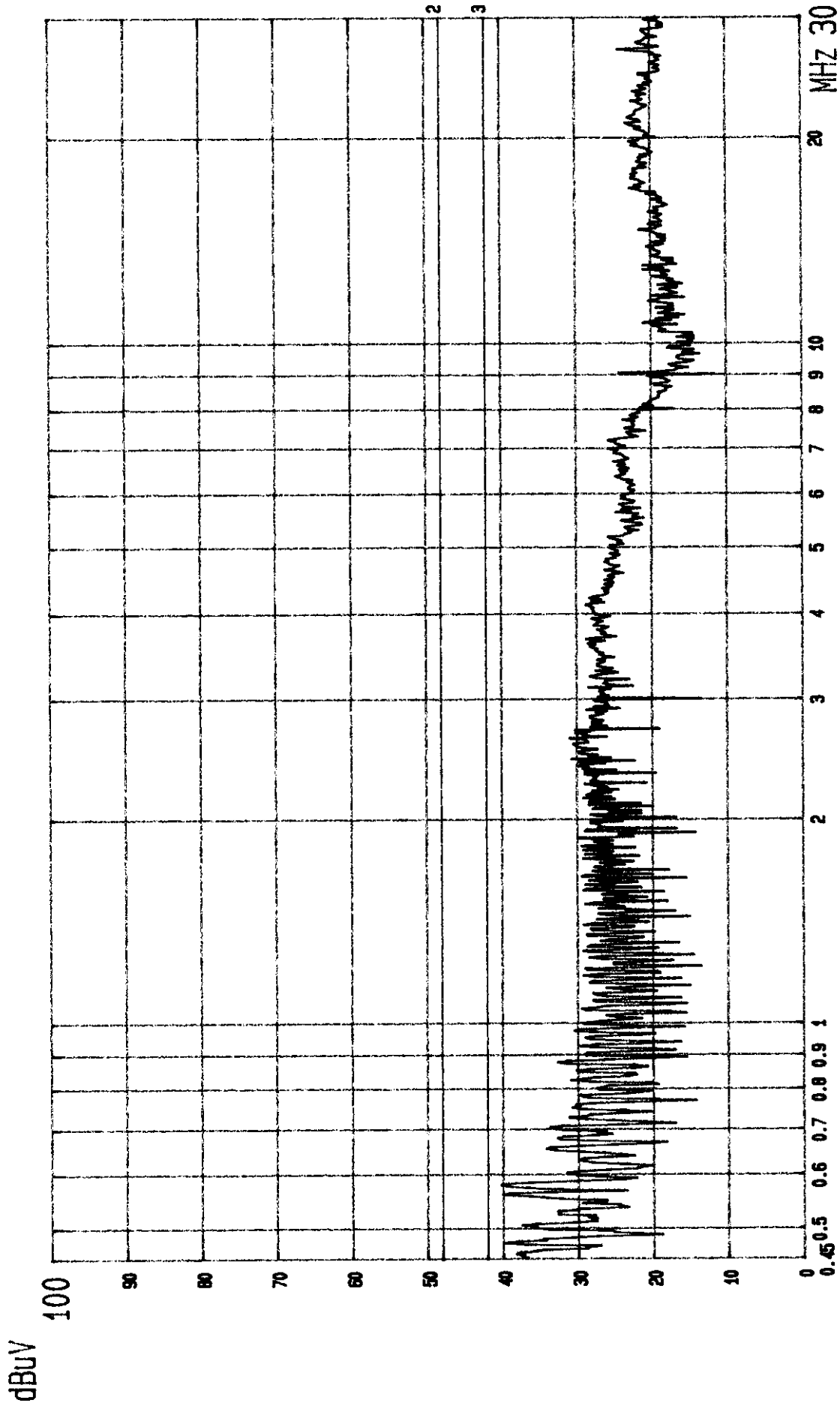
MEN0: (640X480; 43.269KHz) D-SUB

PAGE: 002.

(PEAK VALUE) TTEMC.



[--- Date 05.MAR.'99 Time 11:05:27
ACER EUT: MONITOR M/N: BELINEA 10 30 70 PAGE: 001.
LINE: VB. MENO: (640X480; 43.269KHz) D-SUB (PEAK VALUE) TTEMC.



--- Date 05.MAR.'99 Time 11:09:03

ACER

EUT: MONITOR

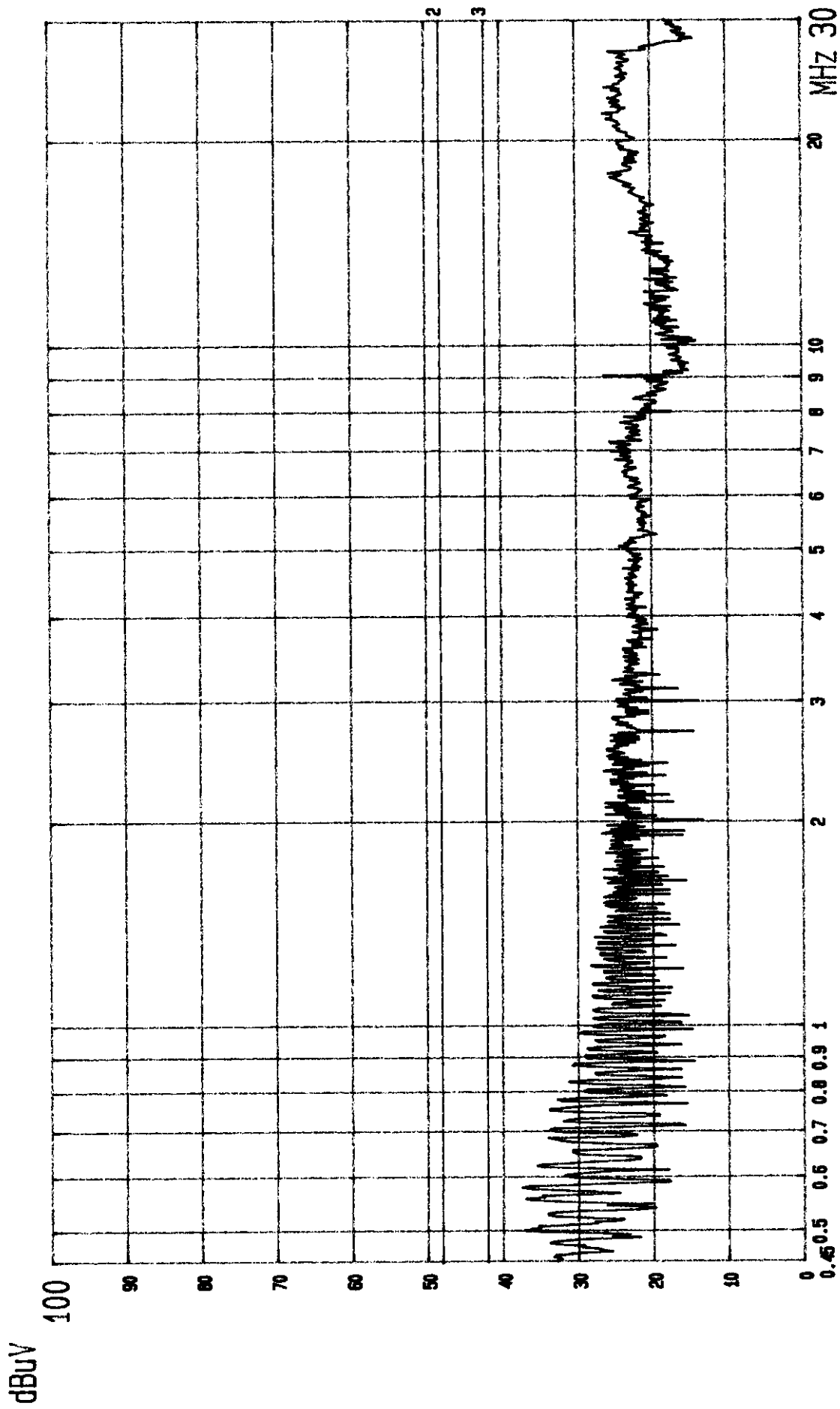
M/N: BELINEA 10 30 70

PAGE: 001.

LINE: VA.

MEN0: (640X480; 43.269KHz) BNC

(PEAK VALUE) TTEM0.



--- Date 05.MAR.'99 Time 11:10:43

ACER EUT: MONITOR

LINE: VB. MEN0: (640X480; 43.269KHZ) BNC

M/N: BELINEA 10 30 70

PAGE: 002.
(PEAK VALUE) TTEMC.

dBuV

100

90

80

70

60

50

40

30

20

10

0

0.45 0.5 0.6 0.7 0.8 0.9 1

2

3

4

5

6

7

8

9

10

20

30

MHZ

----- Date 05.MAR.'99 Time 11:00:51

ACER EUT: MONITOR

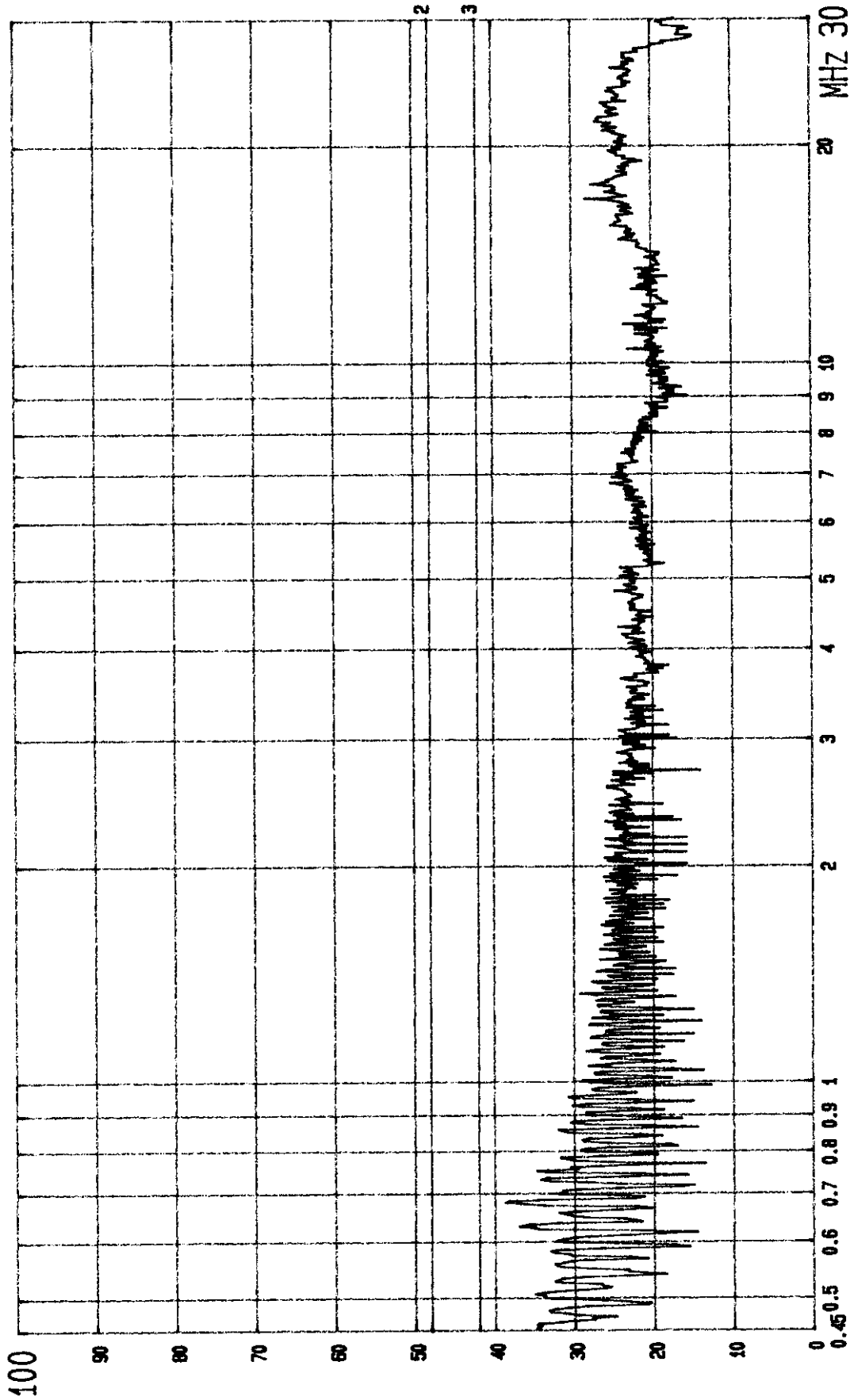
LINE: VA.

M/N: BELINEA 10 30 70

MEN0: (800X600; 63.619KHz) D-SUB

PAGE: 001.
(PEAK VALUE) TTEMPC.

dBuV



--- Date 05.MAR.'99 Time 11:02:34

ACER EUT: MONITOR

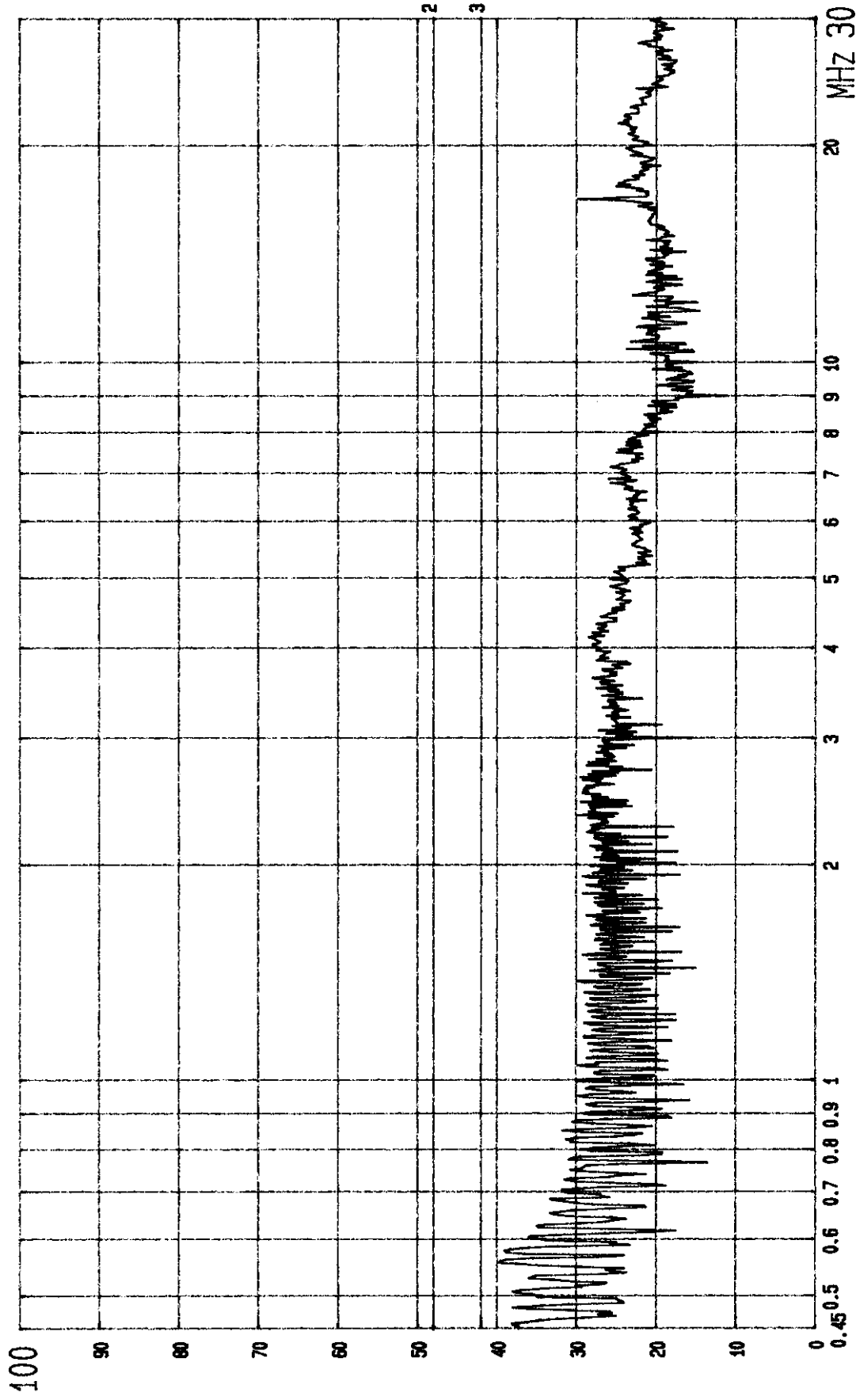
LINE: VB.

M/N: BELINEA 10 30 70

MEN0: (800X600; 63.619KHz) D-SUB

PAGE: 002.
(PEAK VALUE) TTEM C.

dBuV



--- Date 05.MAR.'99 Time 10:59:06

ACER EUT: MONITOR

LINE: VA.

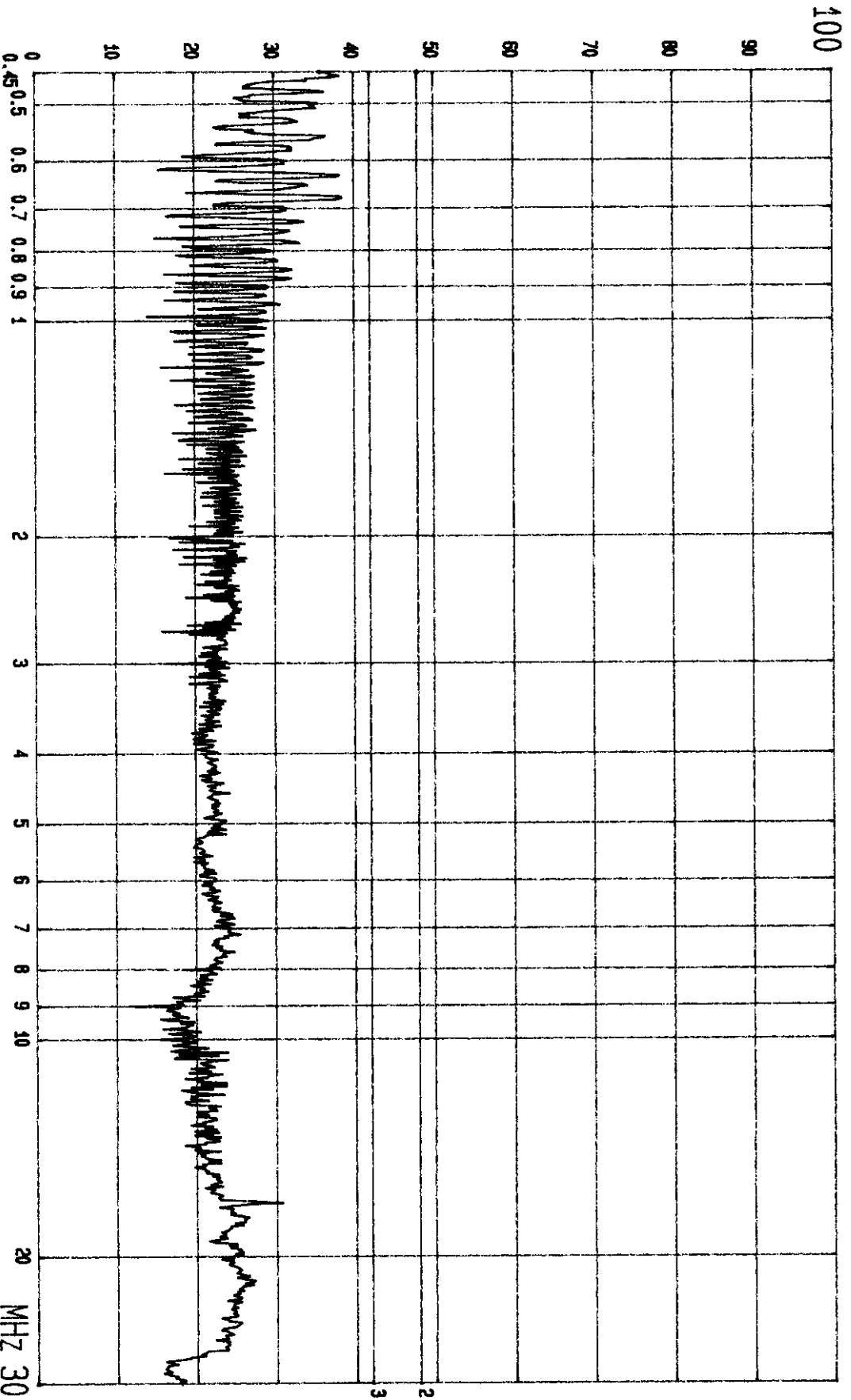
M/N: BELINEA 10 30 70

MEN0: (800X600; 63.619KHz) BNC

PAGE: 002.

(PEAK VALUE) TTEM.C.

dBuV

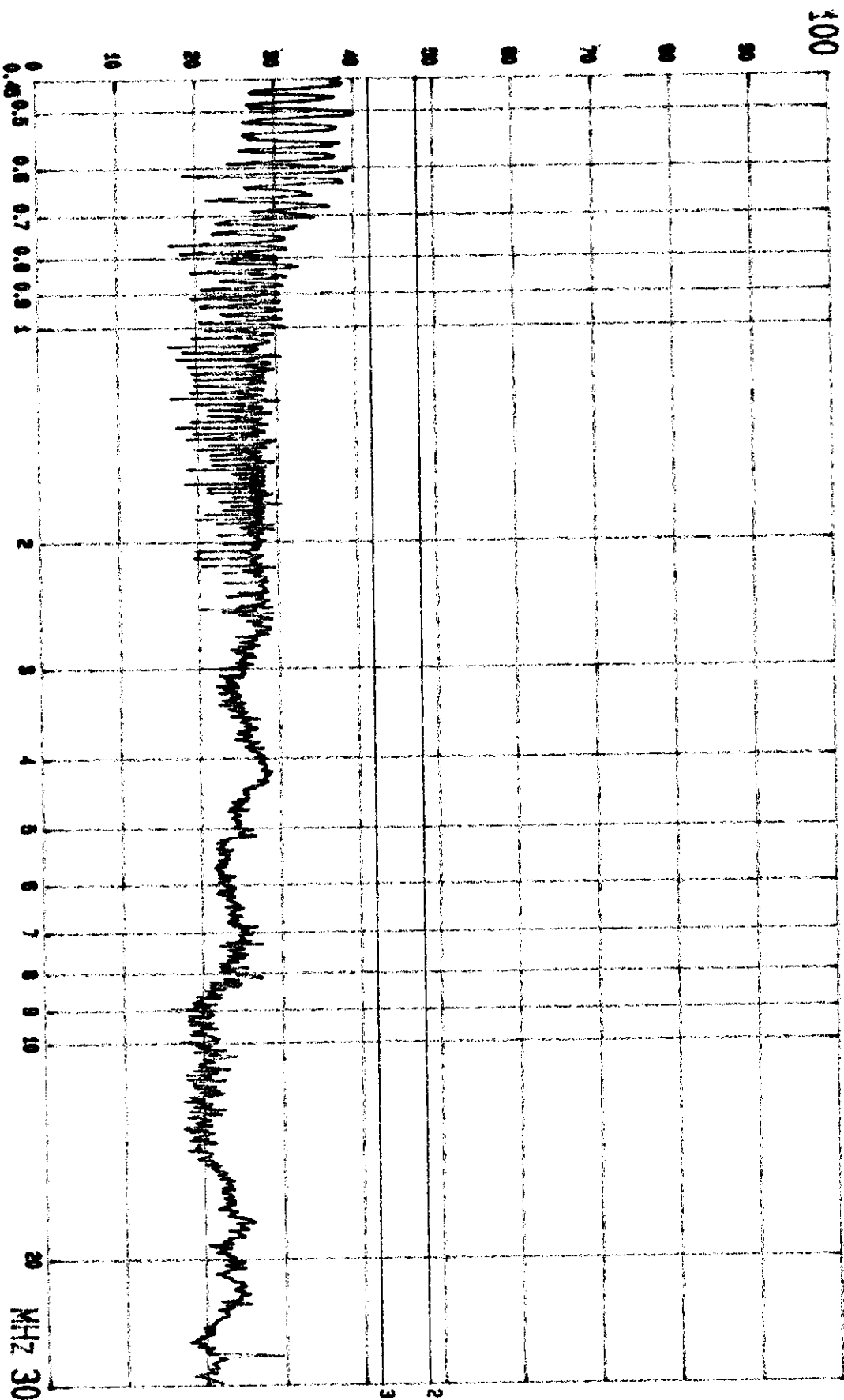


1--- Date : 6.8 '99 Time 1::12:1:
ACER EUT: MONITOR
LINE: VB. MEND: (800X6Q^ 63.619KHz) BNC

M/N: BELINEA 10 30 70

PAGE: 001.
(PEAK VALUE) ITEM C.

dBuV

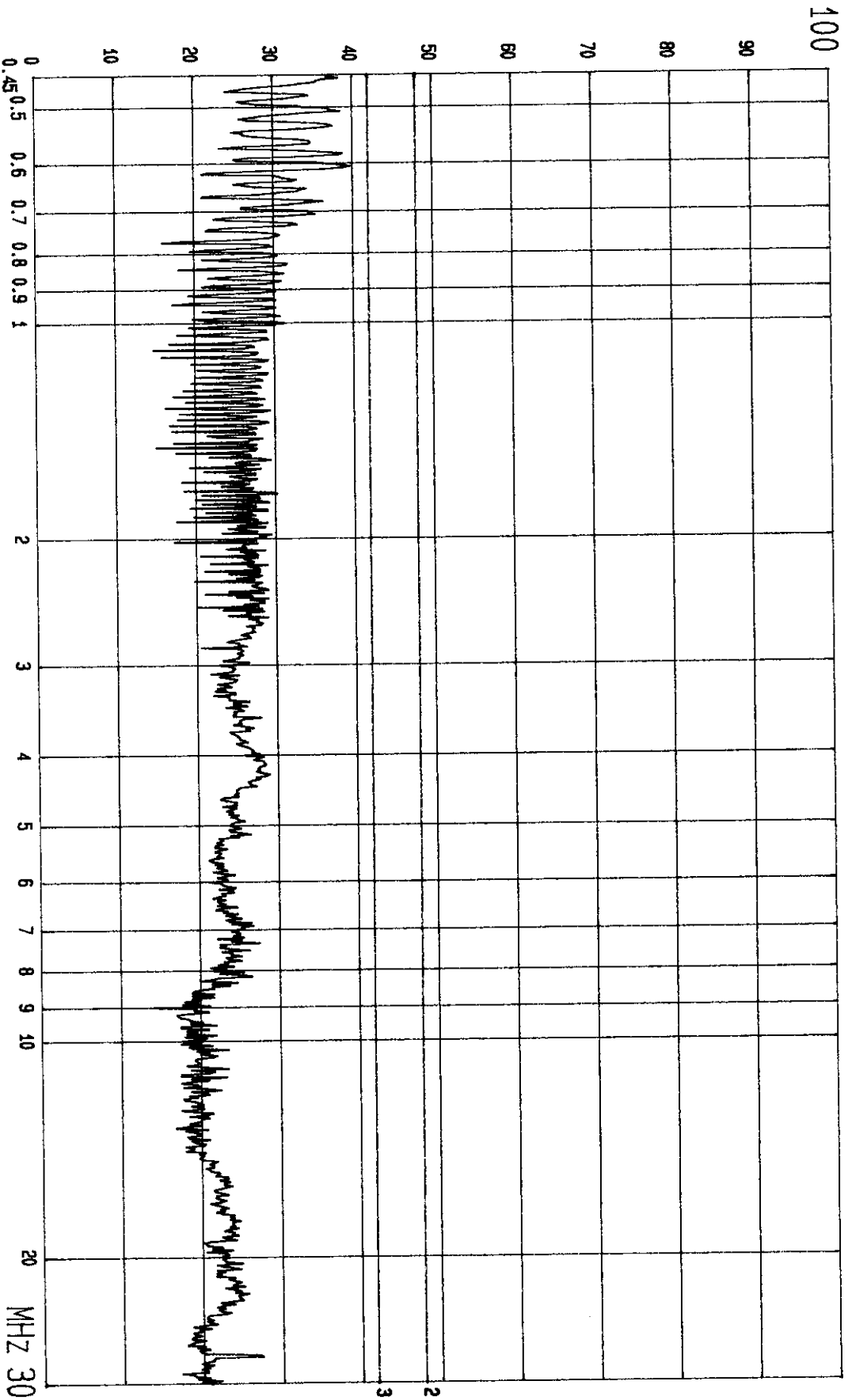


--- Date 05.MAR.'99 Time 10:26:28
ACER
LINE: VA.
EUT: MONITOR
MENO: (1024X7F9; 80.741KHz) D-SUB

M/N: BELINEA 10 30 70

PAGE: 001.
(PEAK VALUE) ITEM: C.

dBuV

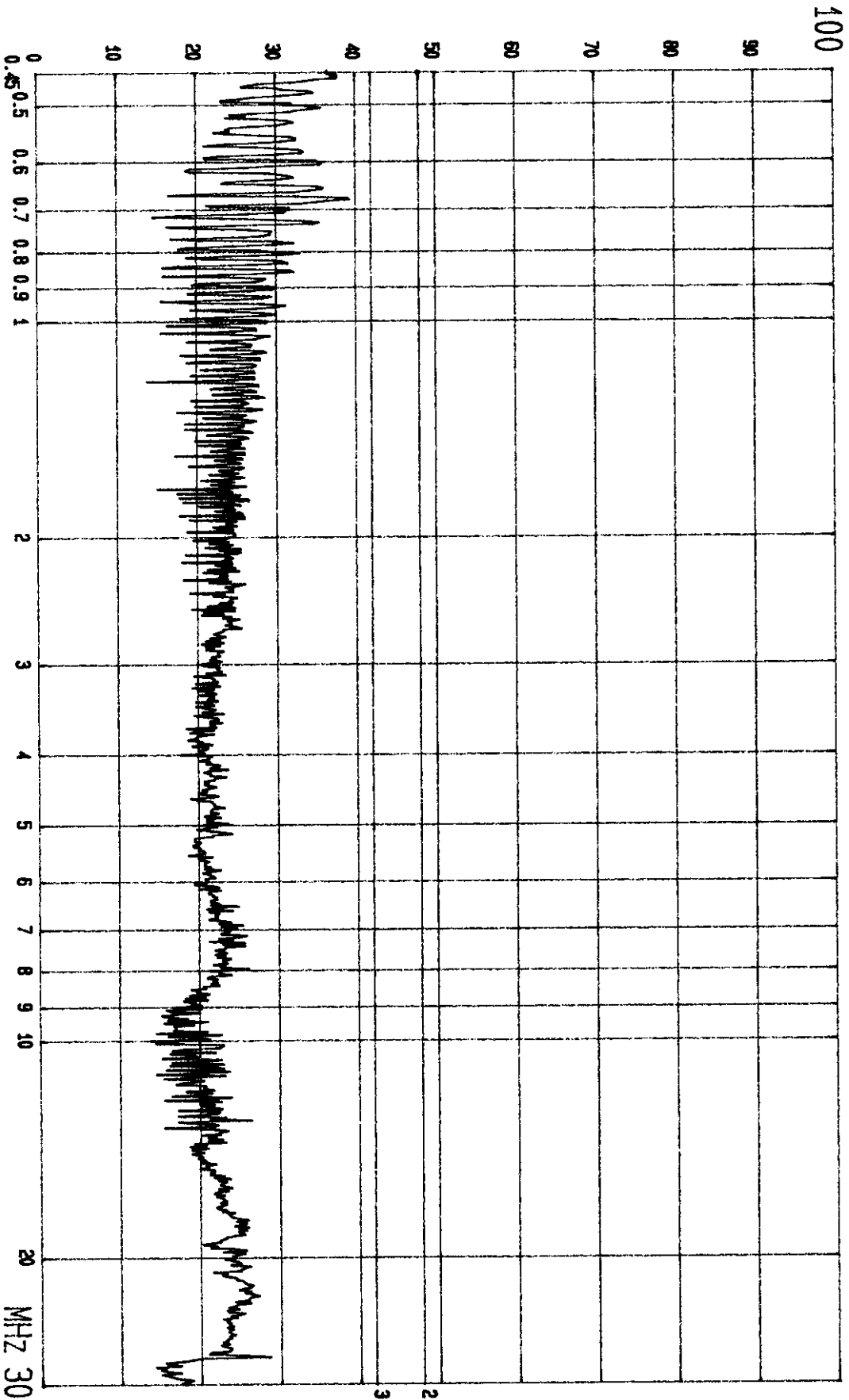


----- Date 05.MAR.'99 Time 10:29:00
ACER
LINE: VB.

EUT: MONITOR
M/N: BELINEA 10 30 70
MEN0: (1024X7=9; 80.741KHz) D-SUB

PAGE: 002.
(PEAK VALUE) ITEM C.

dBuV

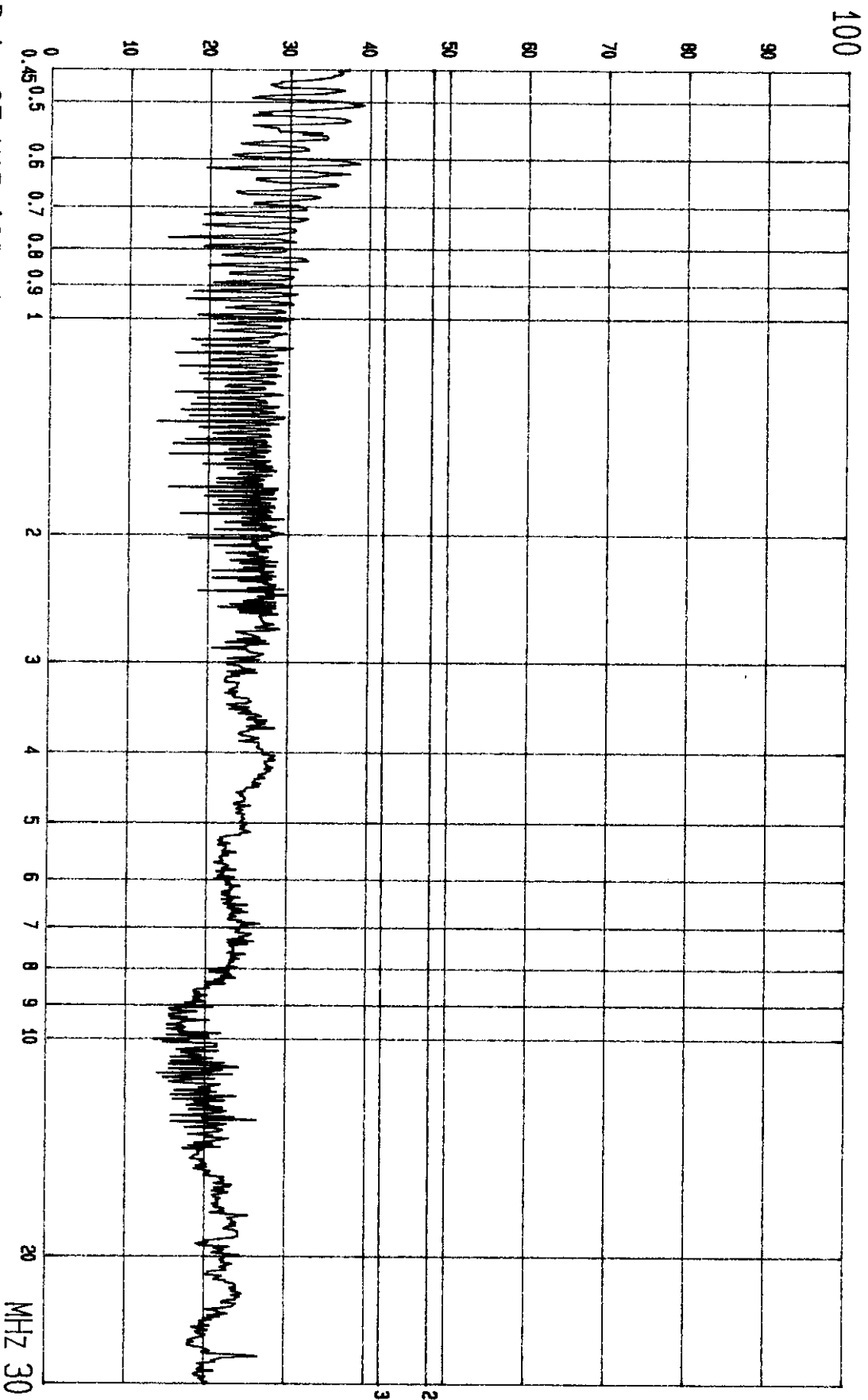


---- Date 05.MAR.'99 Time 10:32:56
ACER EUT: MONITOR
LINE: VA. MENO: (1024X79; 80.741KHz) BNC

M/N: BELINEA 10 30 70

PAGE: 001.
(PEAK VALUE) TTEMC.

dBuV



1---- Date 05.MAR.'99 Time 10:31:07
ACER EUT: MONITOR
LINE: VB. MENO: (1024X7"9; 80.741KHz) BNC

M/N: BELINEA 10 30 70

PAGE: 002.
(PEAK VALUE) TTEMG.

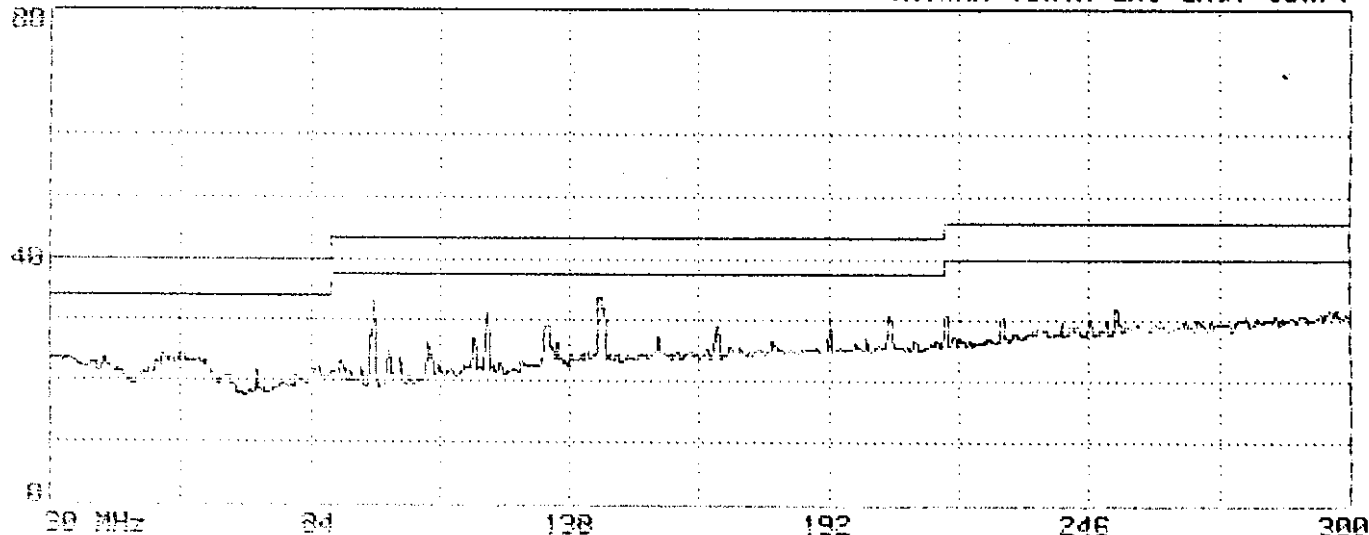
APPENDIX II

Radiated Test Data at Anechoic Chamber

(Total Pages : 16)

Page#: 41 SP File#: ACER.E1
dBu/m ANECHOIC CHAMBER

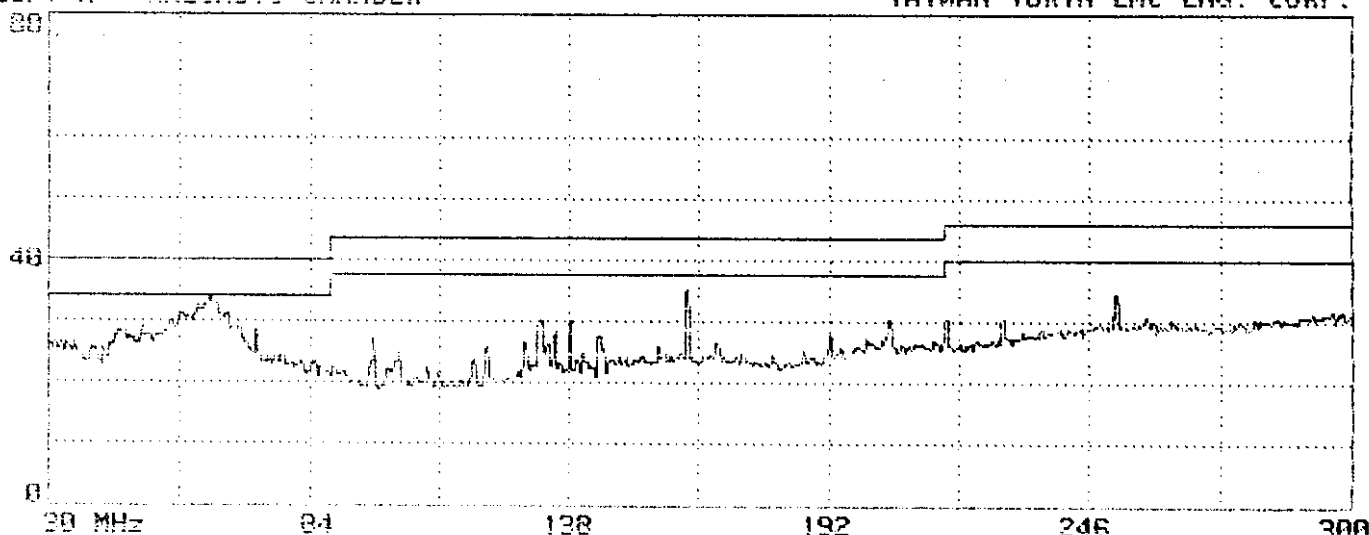
Date: 03-03-1999 Time: 21:28:10
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: 88091068(1209)O/C HORIZONTAL
EUT : MONITOR N/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 600 Standard: 0 Trace: 41, 0, 0, 0, 0
Memo : 43.2KHz(640X480;85Hz) CABLE D-SUB

Page#: 42 SP File#: ACER.E1
dBu/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 21:29:40
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: 88091068(1209)O/C VERTICAL
EUT : MONITOR N/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 600 Standard: 0 Trace: 42, 0, 0, 0, 0
Memo : 43.2KHz(640X480;85Hz) CABLE D-SUB

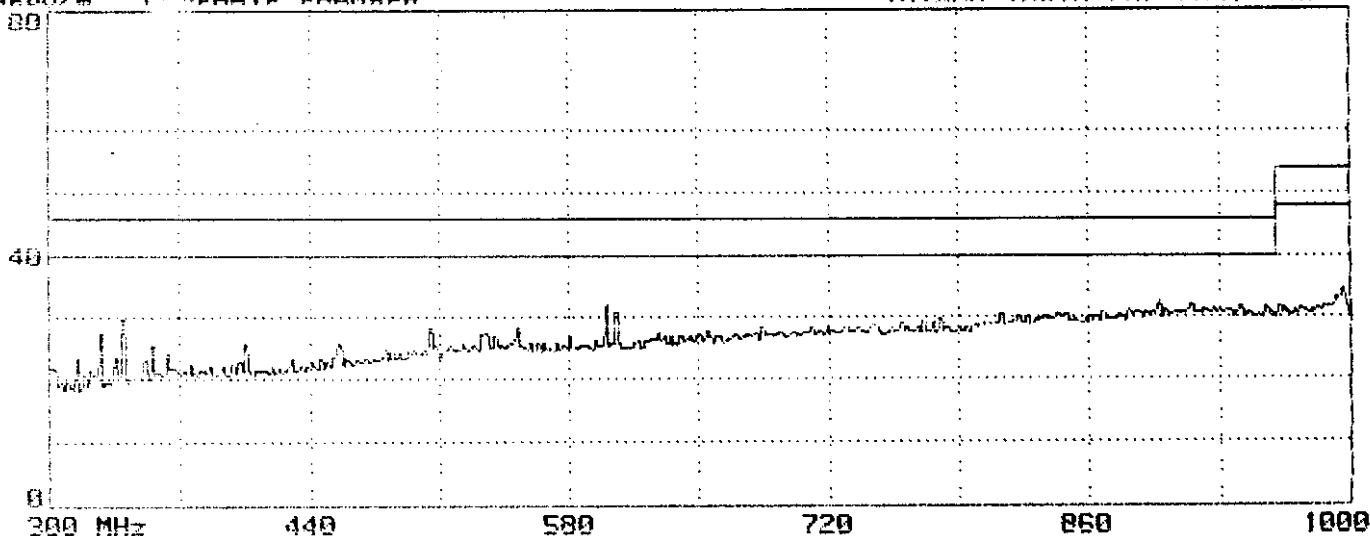
Page#: 43 SP File#: ACER.E1

Date: 03-03-1999 Time: 21:32:47

dBu/m

ANCHOIC CHAMBER

TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHALP 9108-A 0139 HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 43, 0, 0, 0, 0
Memo : 43.2KHz(640X480;85Hz) CABLE D-SUB

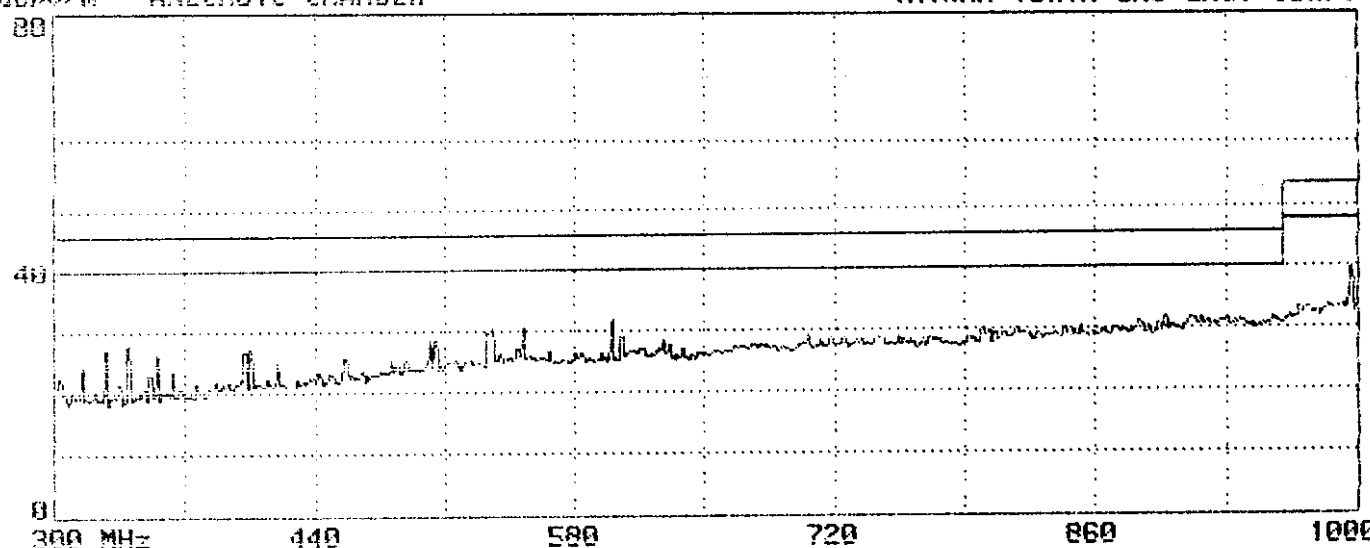
Page#: 44 SP File#: ACER.E1

Date: 03-03-1999 Time: 21:34:27

dBu/m

ANCHOIC CHAMBER

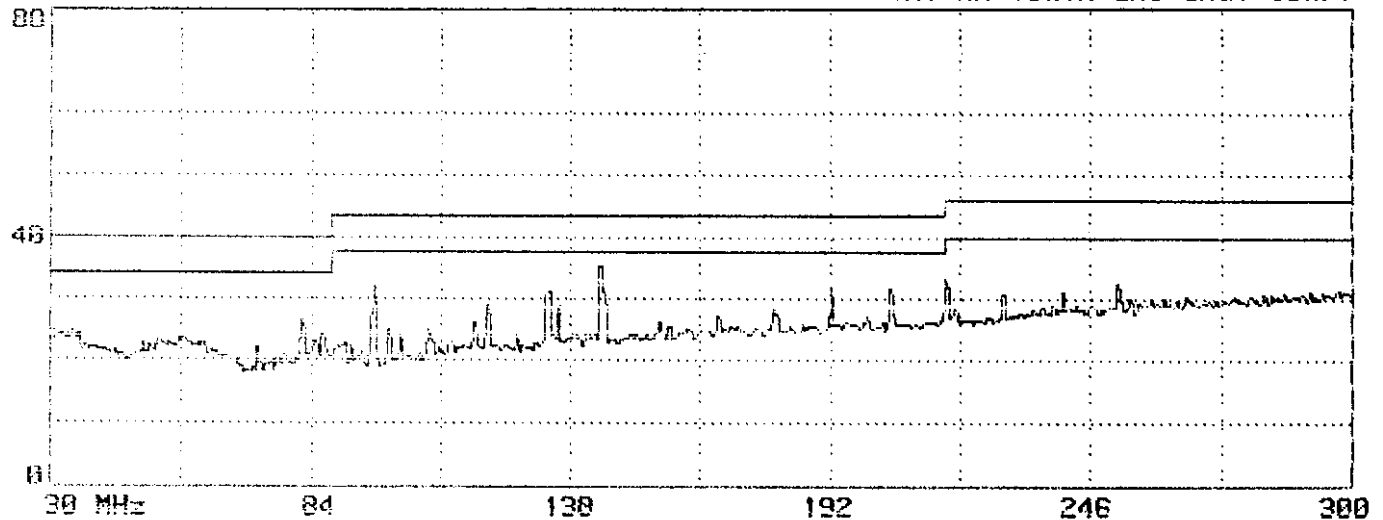
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHALP 9108-A 0139 VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 44, 0, 0, 0, 0
Memo : 43.2KHz(640X480;85Hz) CABLE D-SUB

Page#: 47 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

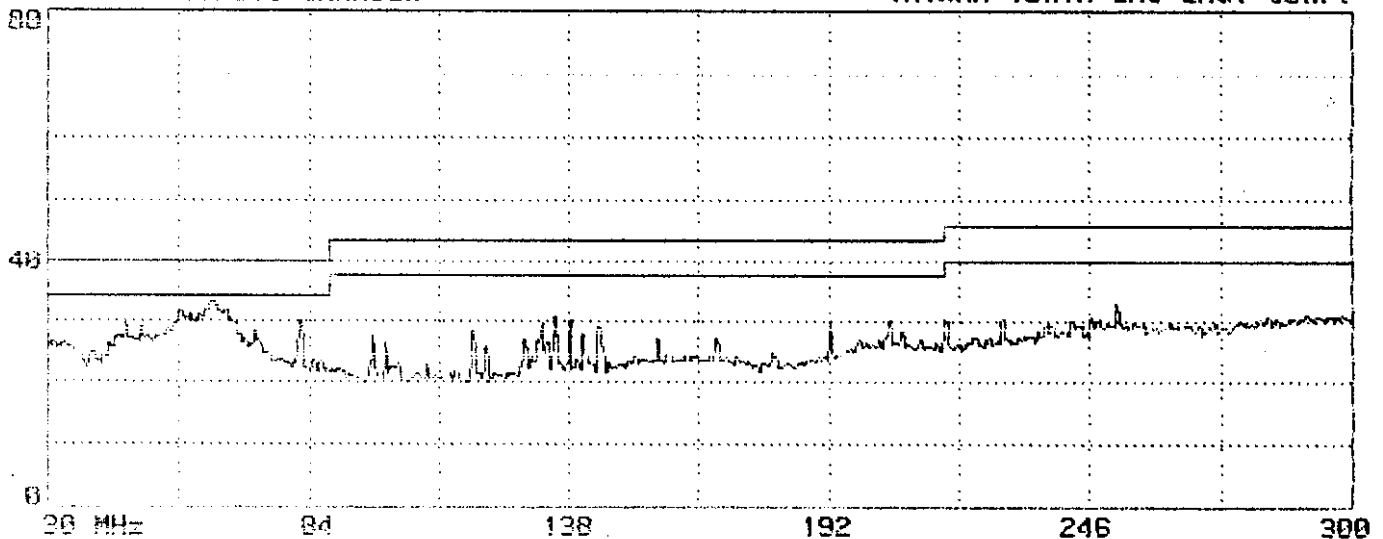
Date: 03-03-1999 Time: 21:46:23
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: 80A9106B(1209)A/C HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 47, 0, 0, 0, 0
Memo : 43.2KHz(640X480;85Hz) CABLE BNC

Page#: 48 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

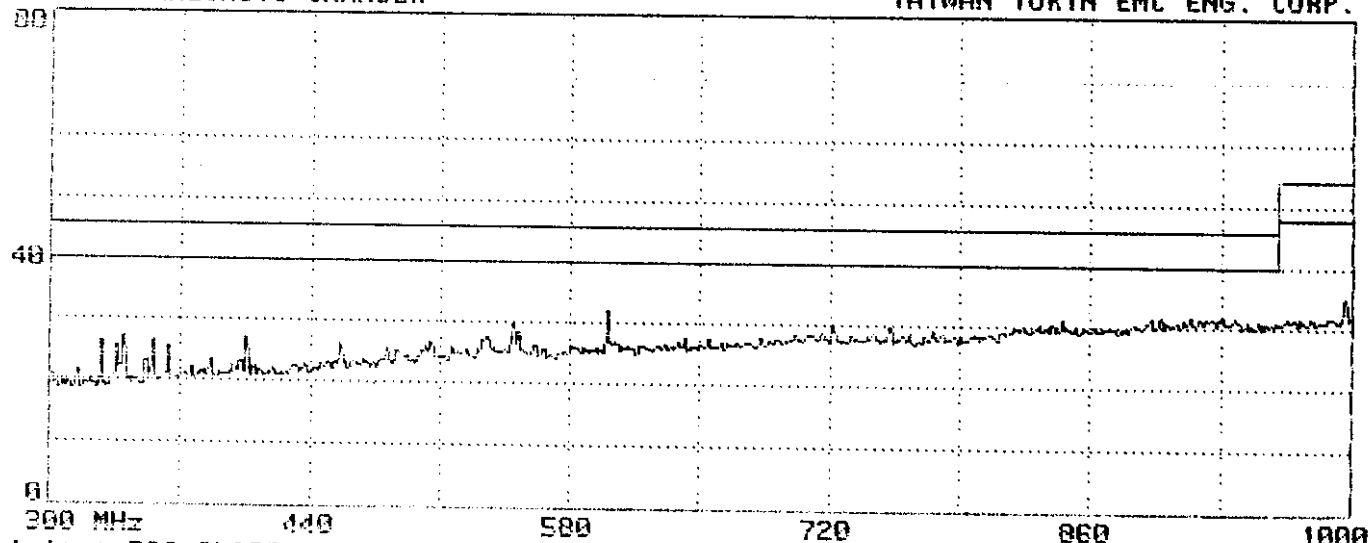
Date: 03-03-1999 Time: 21:49:03
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: 80A9106B(1209)A/C VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 48, 0, 0, 0, 0
Memo : 43.2KHz(640X480;85Hz) CABLE BNC

Page#: 45 SP File#: ACER.EI
dBμV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 21:40:22
TAIWAN TOKIN EMC ENG. CORP.

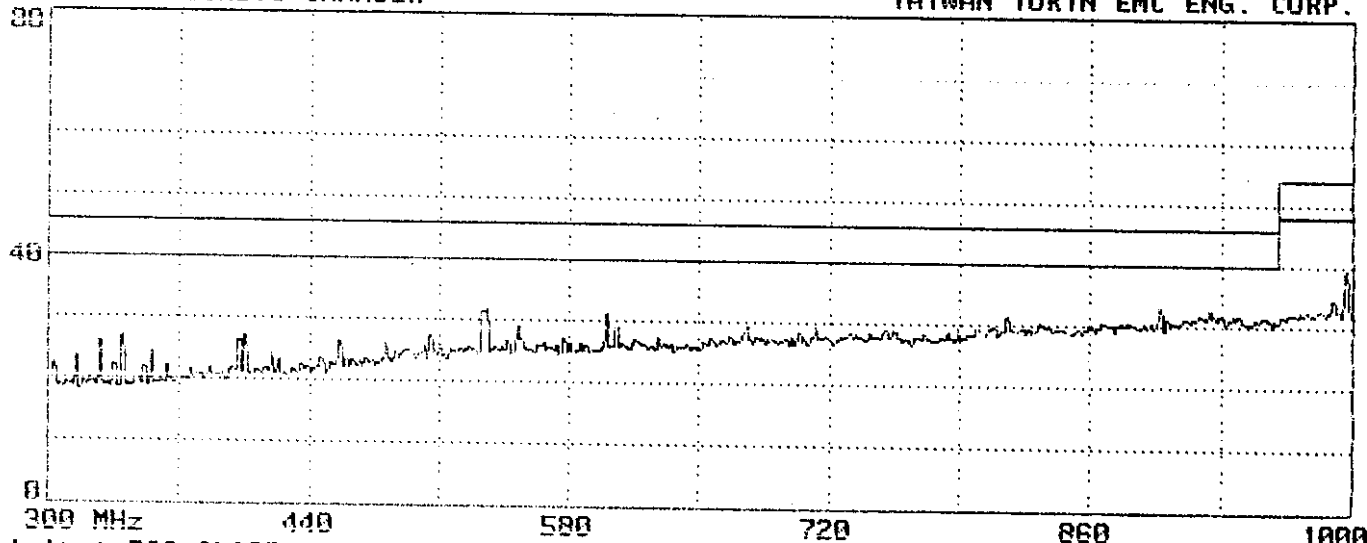


Limit : FCC CLASS-B 3m
EUT : MONITOR H/N:BELINEA 10 30 70
Margin: 6dB Standard: 0
Memo : 43.2KHz(640X480;85Hz) CABLE BNC

Probe: UH1LP 9108-A 0139 HORIZONTAL
Power: 120Vac/60Hz
Trace: 45, 0, 0, 0, 0

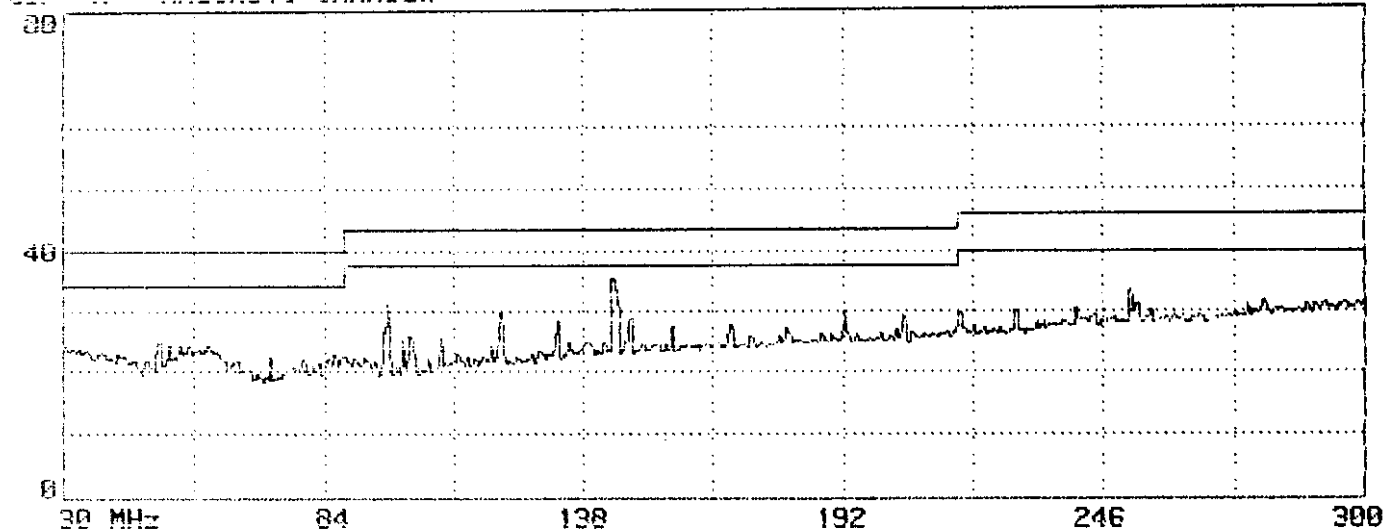
Page#: 46 SP File#: ACER.EI
dBμV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 21:41:51
TAIWAN TOKIN EMC ENG. CORP.

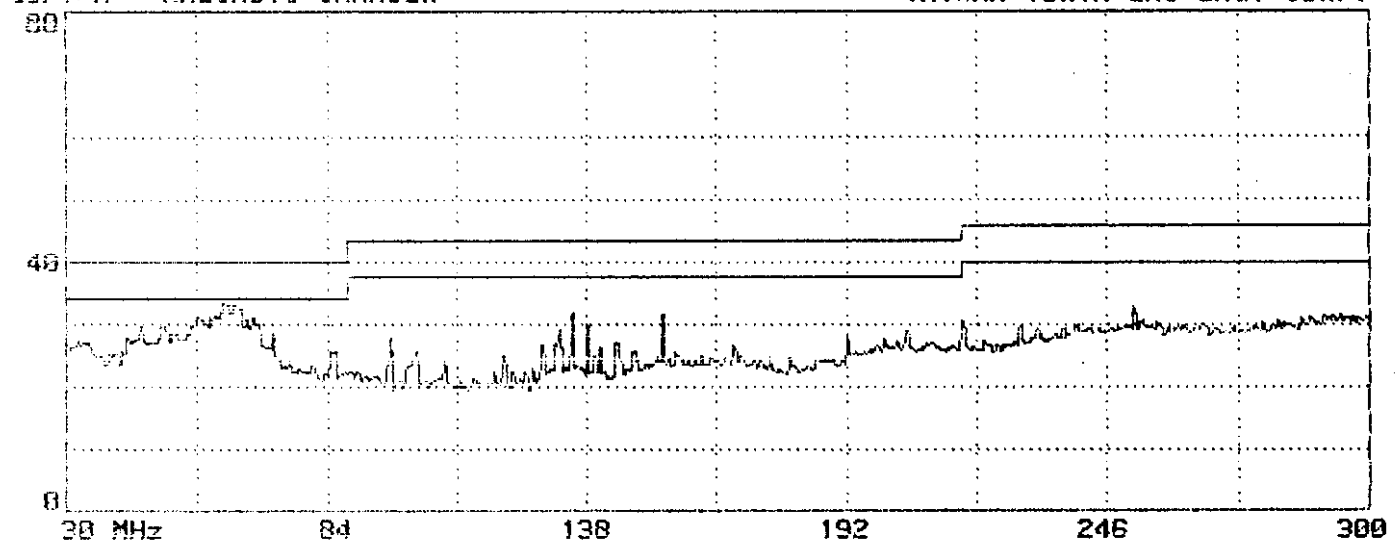


Limit : FCC CLASS-B 3m
EUT : MONITOR H/N:BELINEA 10 30 70
Margin: 6dB Standard: 0
Memo : 43.2KHz(640X480;85Hz) CABLE BNC

Probe: UH1LP 9108-A 0139 VERTICAL
Power: 120Vac/60Hz
Trace: 46, 0, 0, 0, 0



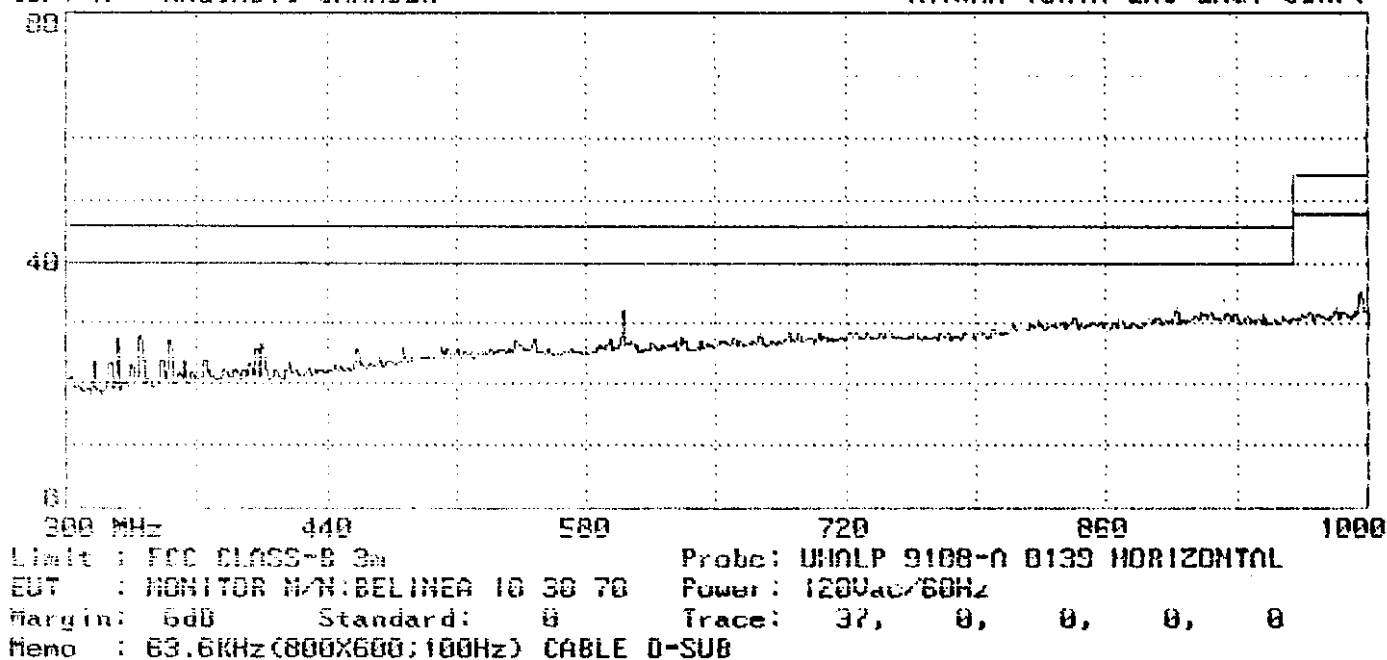
Limit : FCC CLASS-B 3m Probe: BDA9106B(1209)A/C HORIZONTAL
EUT : MONITOR N/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 39, 0, 0, 0, 0
Memo : 63.6KHz(800X600;100Hz) CABLE D-SUB



Limit : FCC CLASS-B 3m Probe: BDA9106B(1209)A/C VERTICAL
EUT : MONITOR N/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 40, 0, 0, 0, 0
Memo : 63.6KHz(800X600;100Hz) CABLE D-SUB

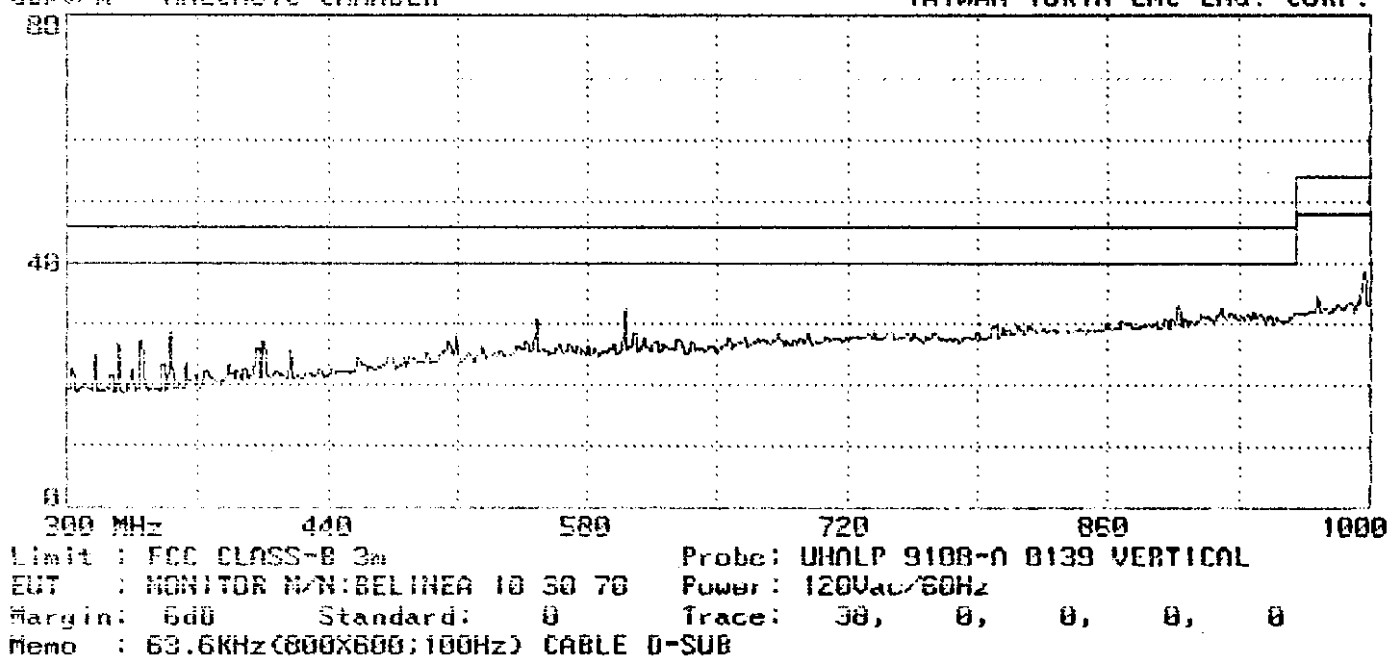
Page#: 37 SP File#: ACER.E1
dBµV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 21:16:19
TAIWAN TOKIN EMC ENG. CORP.



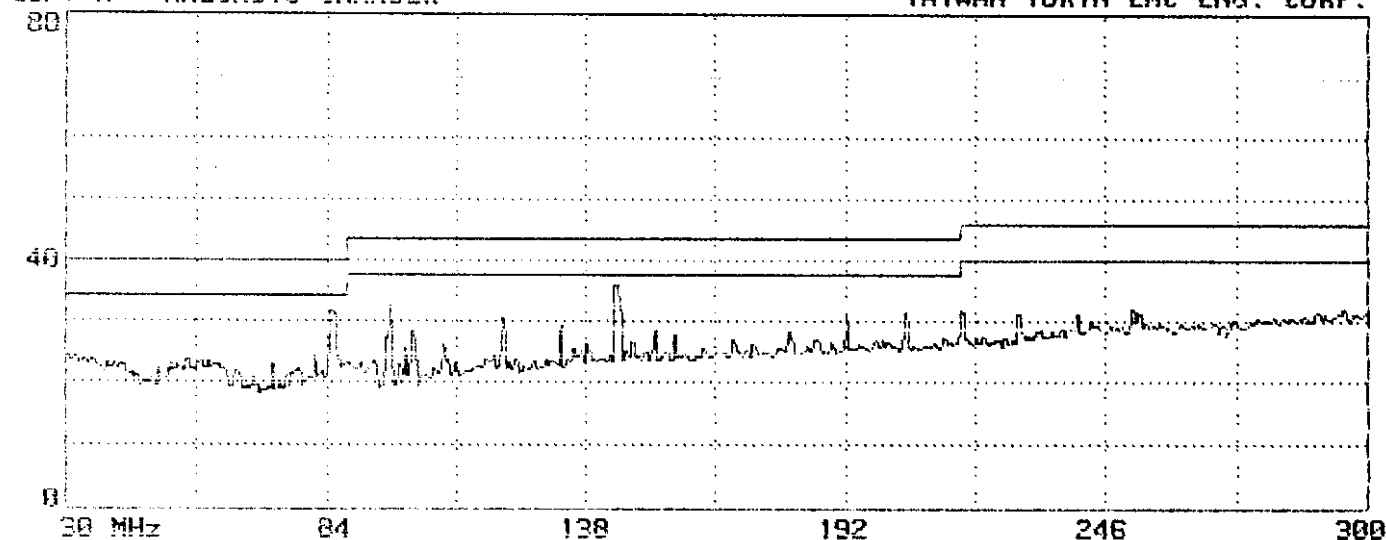
Page#: 38 SP File#: ACER.E1
dBµV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 21:17:48
TAIWAN TOKIN EMC ENG. CORP.



Page#: 33 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

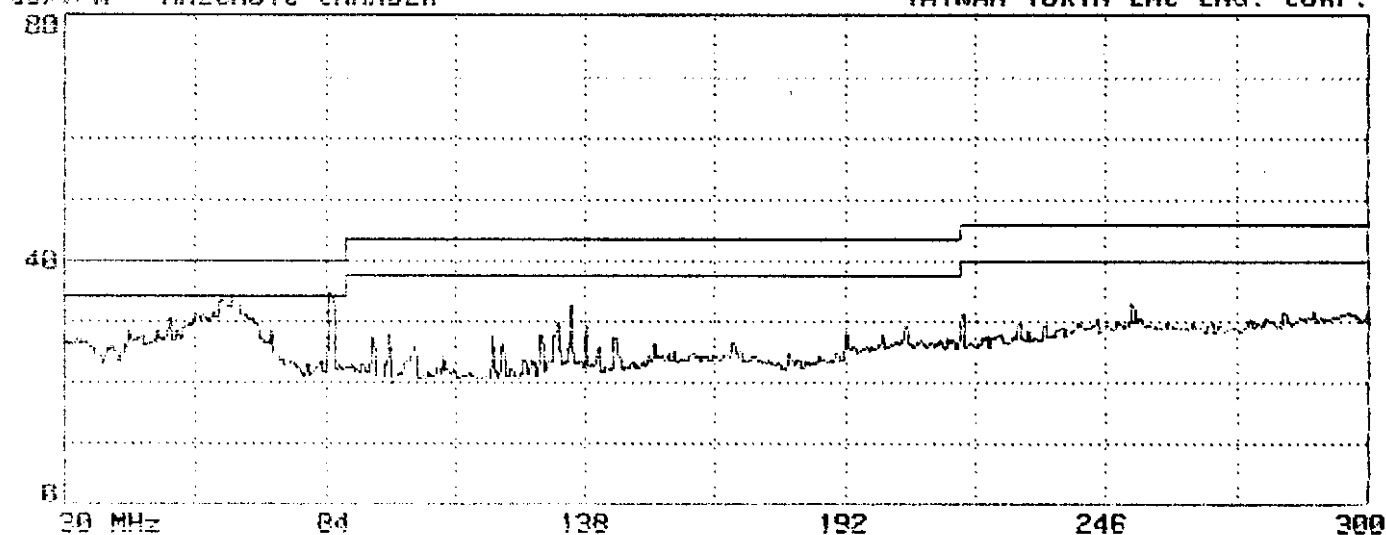
Date: 03-03-1999 Time: 21:05:54
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: BB0910GB(1209)A/C HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 33, 0, 0, 0, 0
Memo : 63.6KHz(800X600;100Hz) CABLE BNC

Page#: 34 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

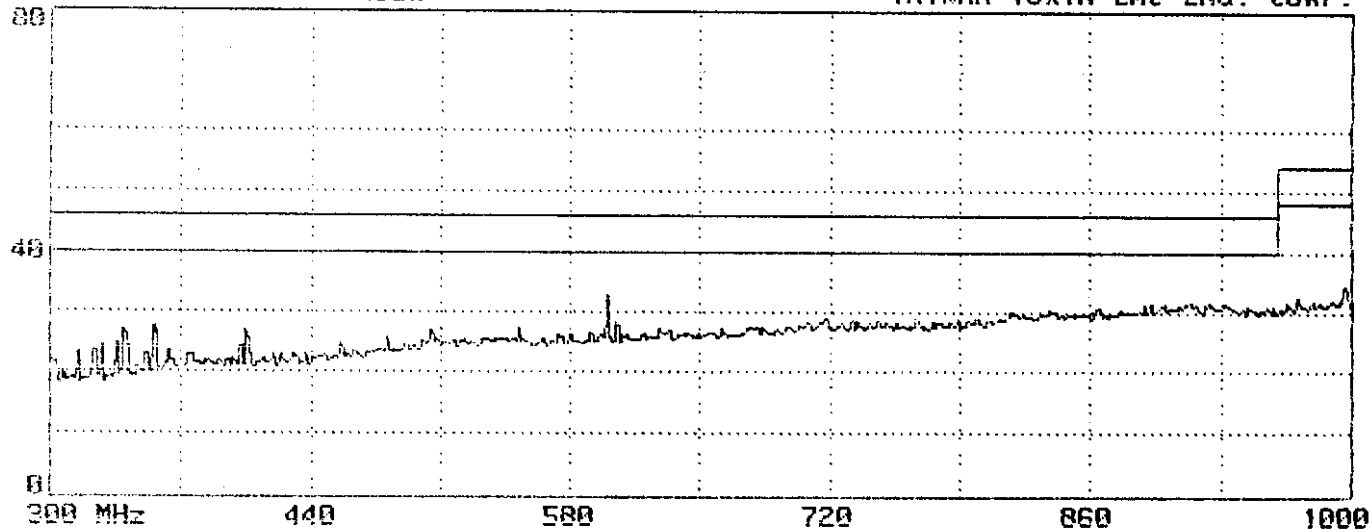
Date: 03-03-1999 Time: 21:07:46
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: BB0910GB(1209)A/C VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 34, 0, 0, 0, 0
Memo : 63.6KHz(800X600;100Hz) CABLE BNC

Page#: 35 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

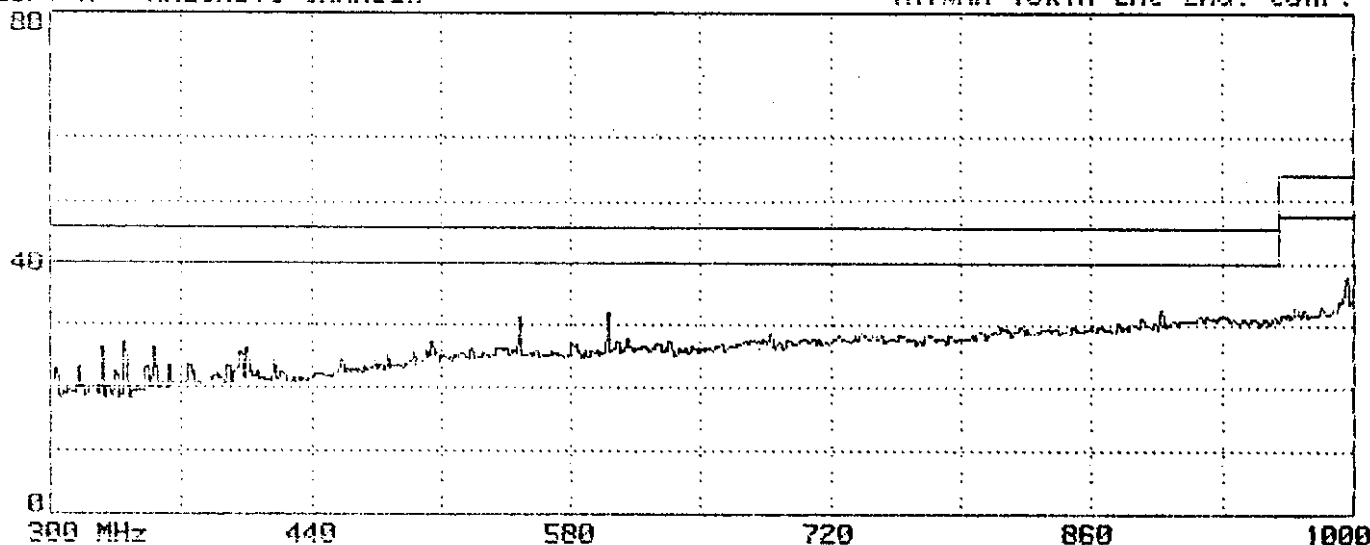
Date: 03-03-1999 Time: 21:10:42
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHALP 9108-A 0139 HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 35, 0, 0, 0, 0
Memo : 63.6KHz(800X600;100Hz) CABLE BNC

Page#: 36 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

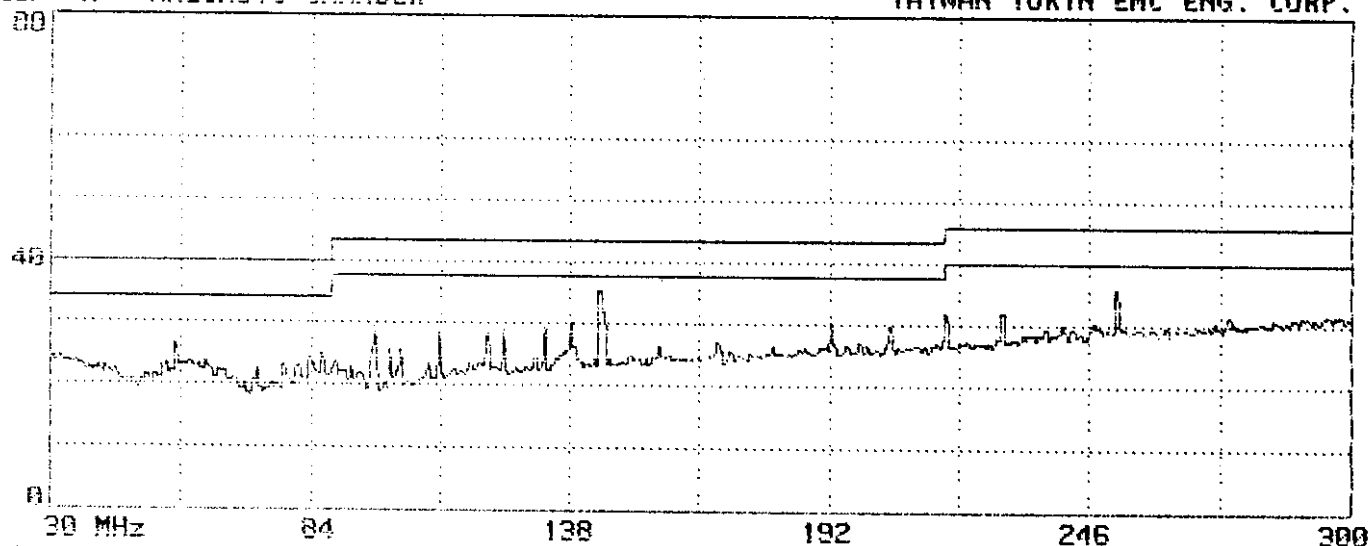
Date: 03-03-1999 Time: 21:12:21
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHALP 9108-A 0139 VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 36, 0, 0, 0, 0
Memo : 63.6KHz(800X600;100Hz) CABLE BNC

Page#: 25 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

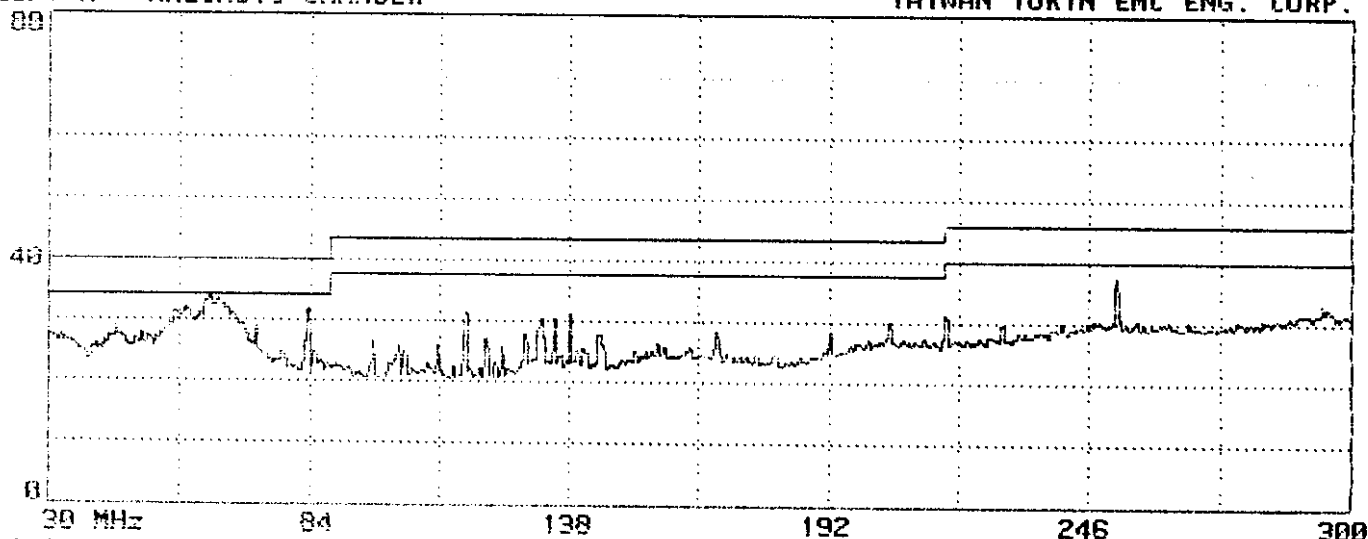
Date: 03-03-1999 Time: 20:26:53
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: B0091068(1209)A/C HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 25, 0, 0, 0, 0
Memo : 80.7KHz(1024X768;100Hz) CABLE D-SUB

Page#: 26 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

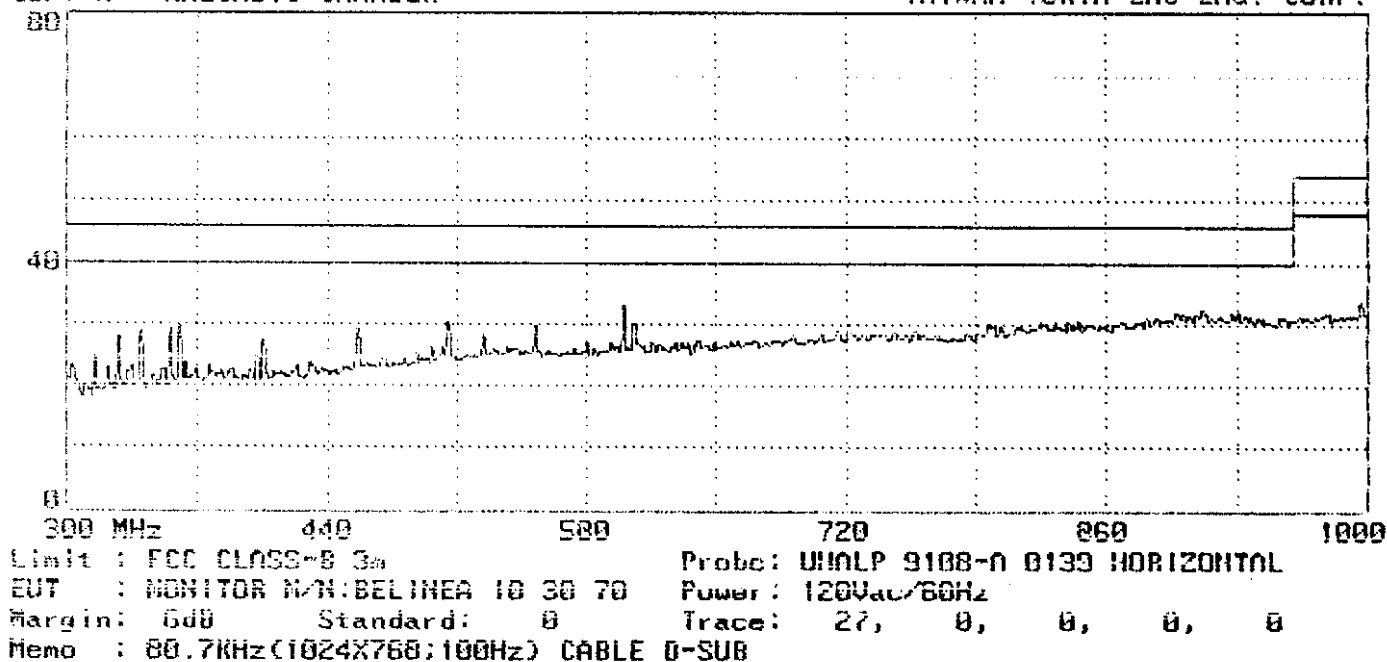
Date: 03-03-1999 Time: 20:31:06
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: B0091068(1209)A/C VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 26, 0, 0, 0, 0
Memo : 80.7KHz(1024X768;100Hz) CABLE D-SUB

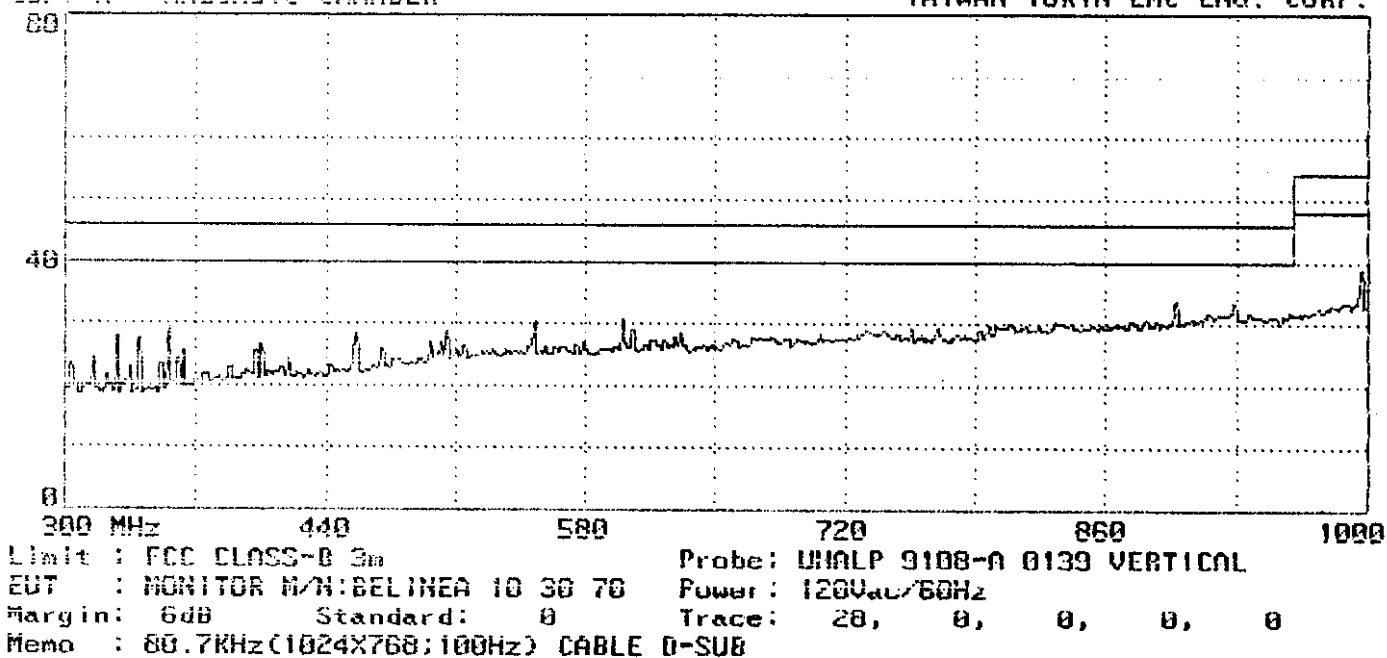
Page#: 27 SP File#: ACER.E1
dBμV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:34:33
TAIWAN TOKIN EMC ENG. CORP.



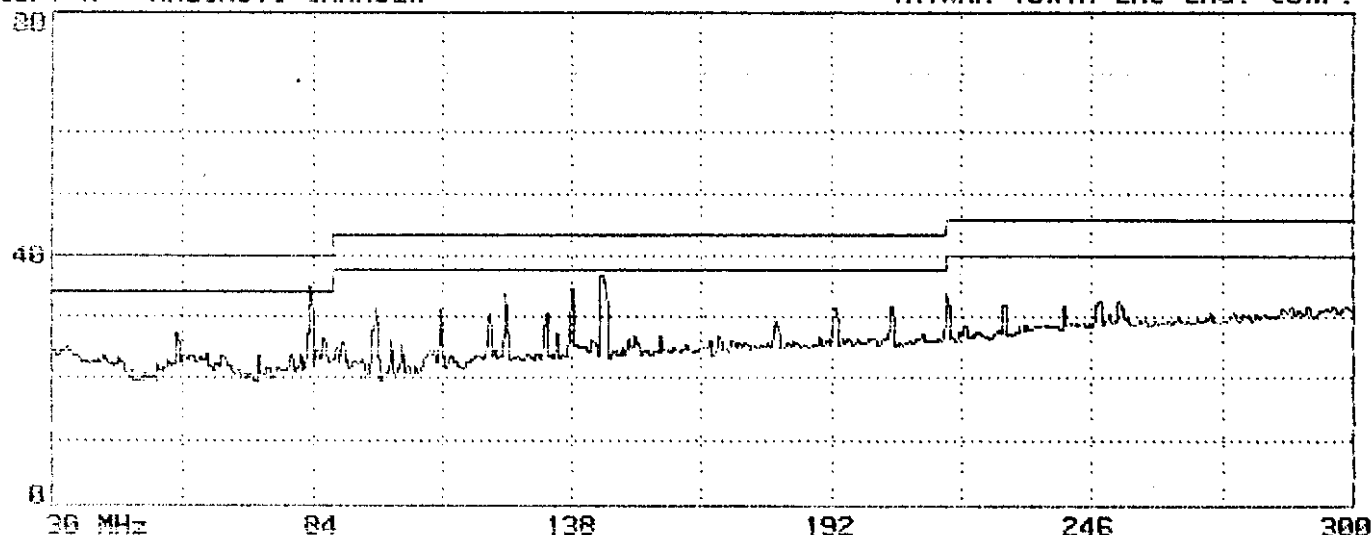
Page#: 28 SP File#: ACER.E1
dBμV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:36:54
TAIWAN TOKIN EMC ENG. CORP.



Page#: 31 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

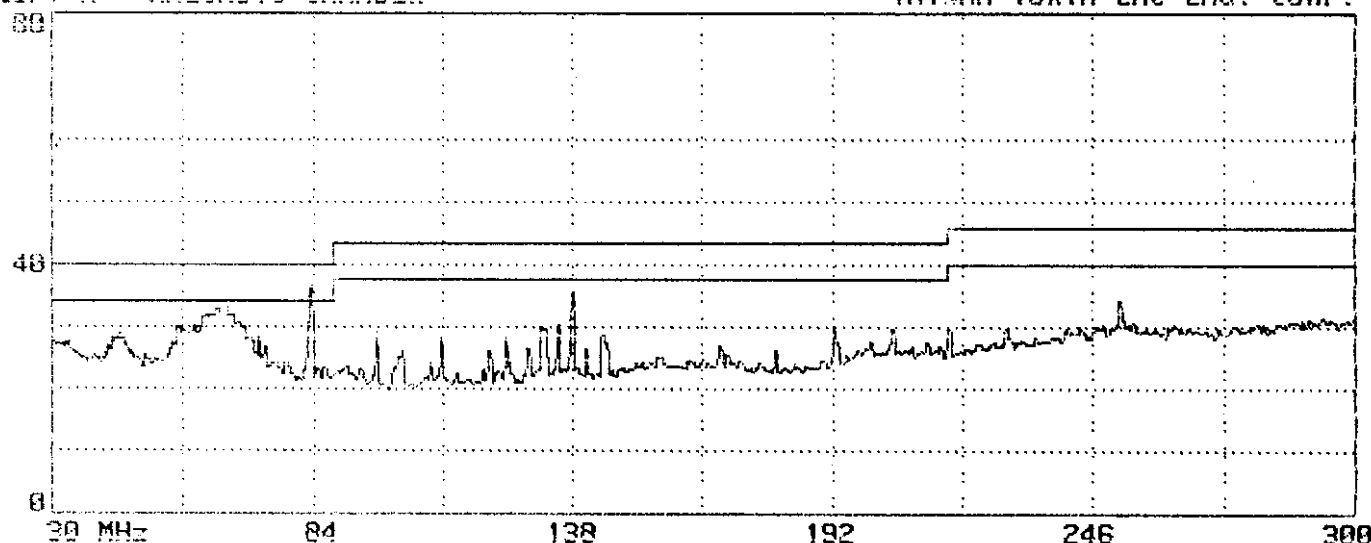
Date: 03-03-1999 Time: 20:58:31
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: BB09106B(1209)A/C HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 31, 0, 0, 0, 0
Memo : 80.7KHz(1024X768;100Hz) CABLE BNC

Page#: 32 SP File#: ACER.EI
dB μ V/m ANECHOIC CHAMBER

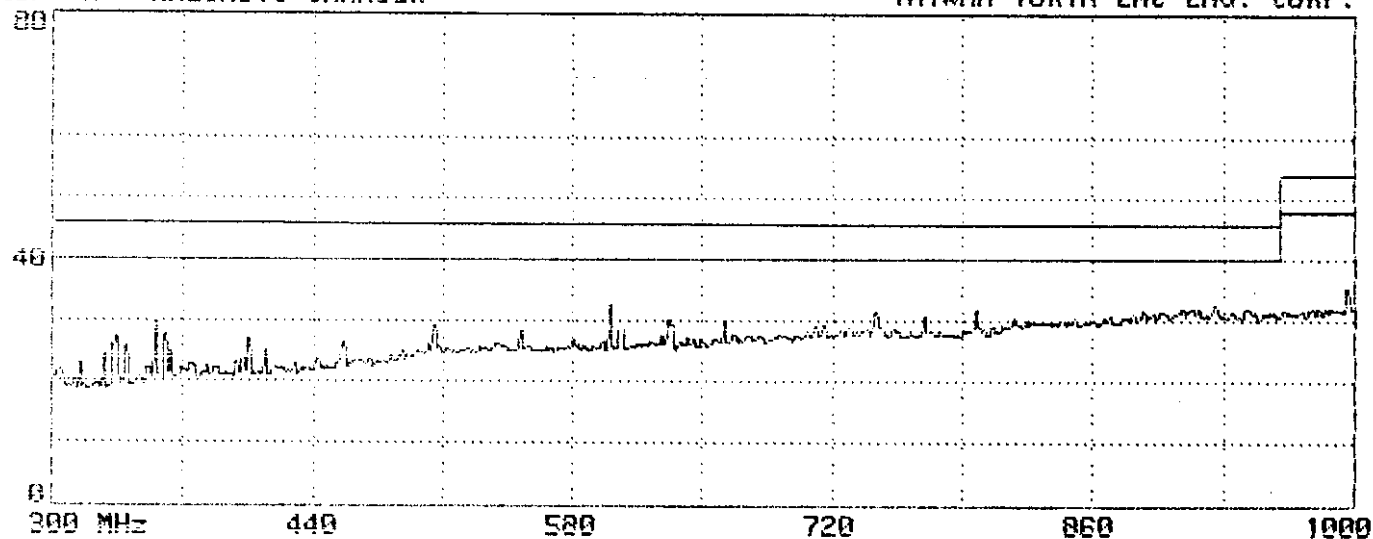
Date: 03-03-1999 Time: 21:00:28
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: BB09106B(1209)A/C VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 32, 0, 0, 0, 0
Memo : 80.7KHz(1024X768;100Hz) CABLE BNC

Page#: 29 SP File#: ACER.E1
dB μ V/m ANECHOIC CHAMBER

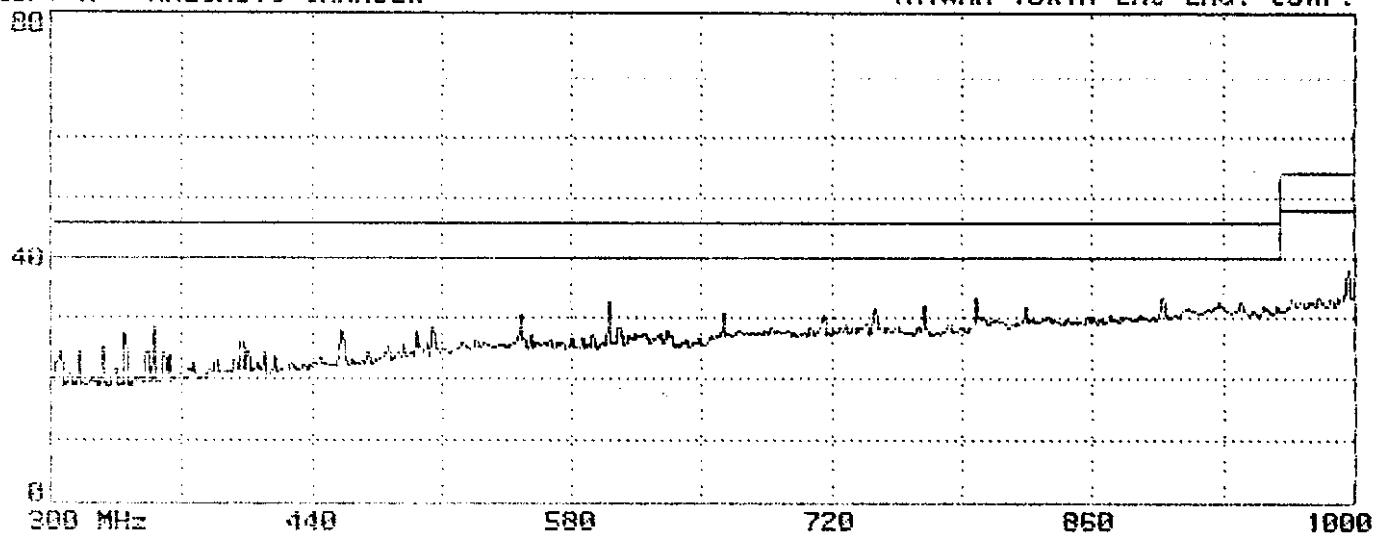
Date: 83-03-1999 Time: 20:52:31
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHNP 9108-A 0139 HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 29, 0, 0, 0, 0
Memo : 80.7KHz(1024X768;100Hz) CABLE BNC

Page#: 30 SP File#: ACER.E1
dB μ V/m ANECHOIC CHAMBER

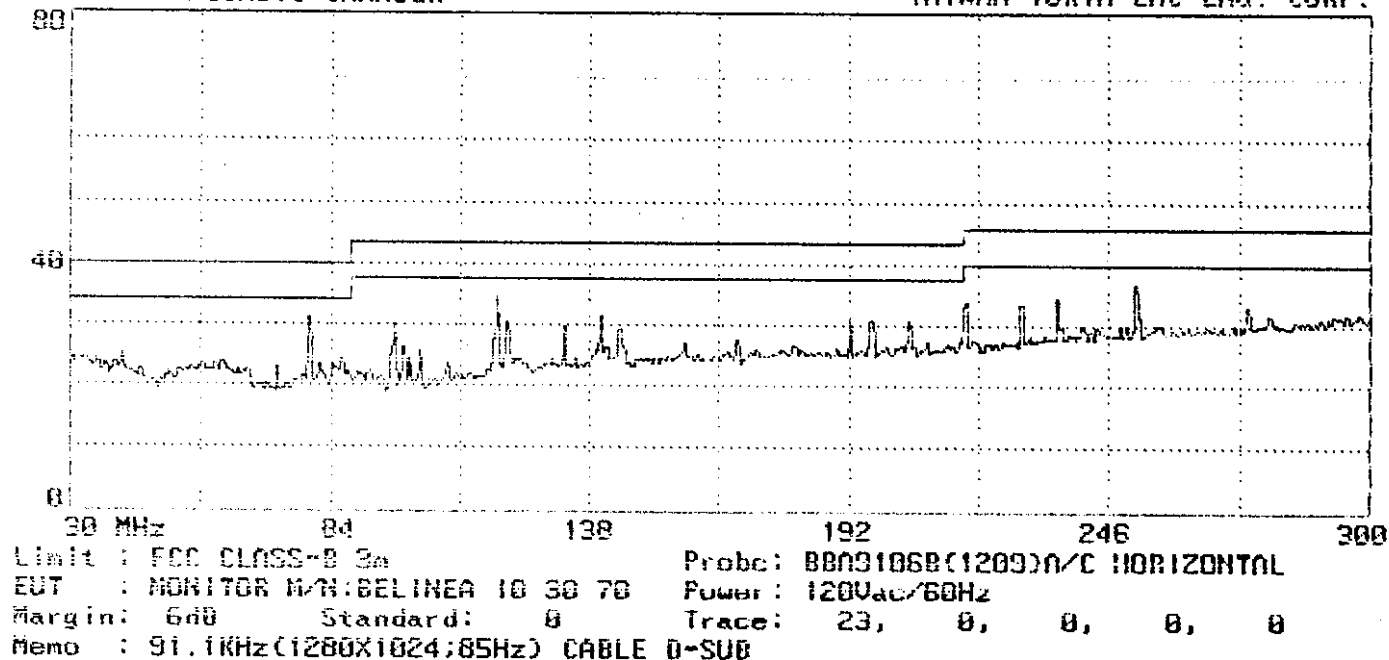
Date: 83-03-1999 Time: 20:54:51
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHNP 9108-A 0139 VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 30, 0, 0, 0, 0
Memo : 80.7KHz(1024X768;100Hz) CABLE BNC

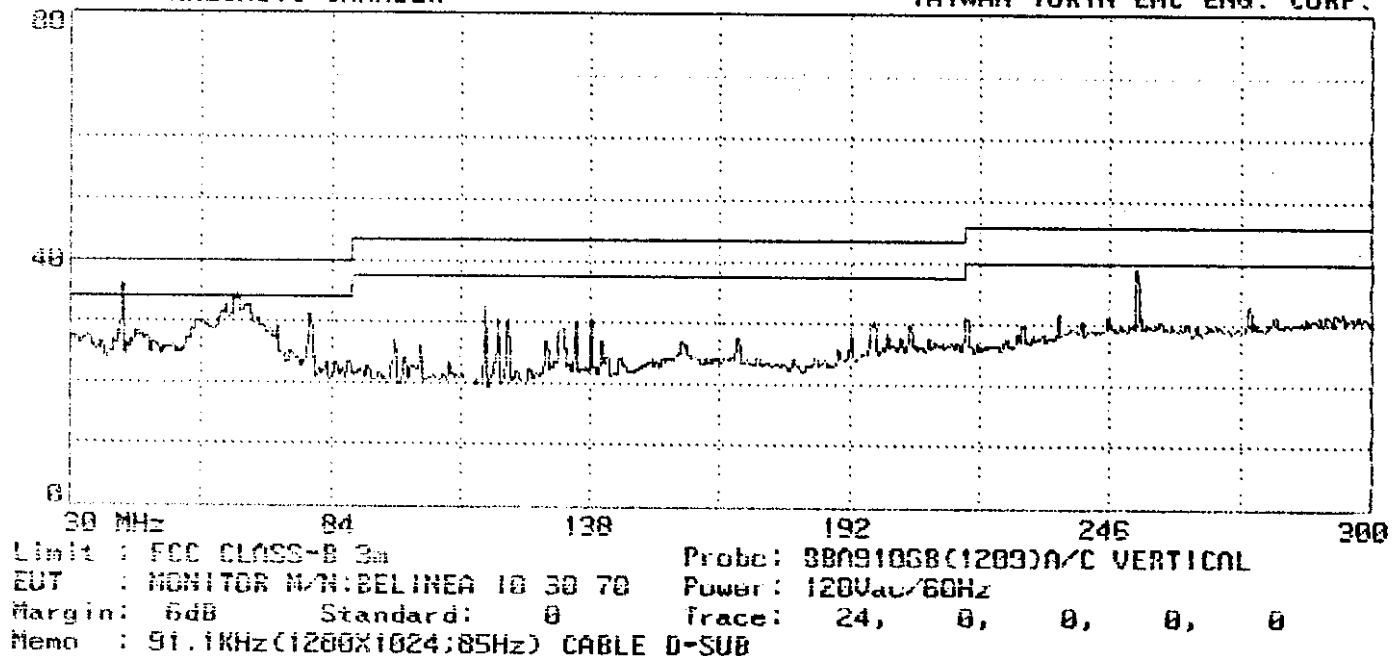
Page#: 23 SP File#: ACER.E1
dBμV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:17:21
TAIWAN TOKIN EMC ENG. CORP.



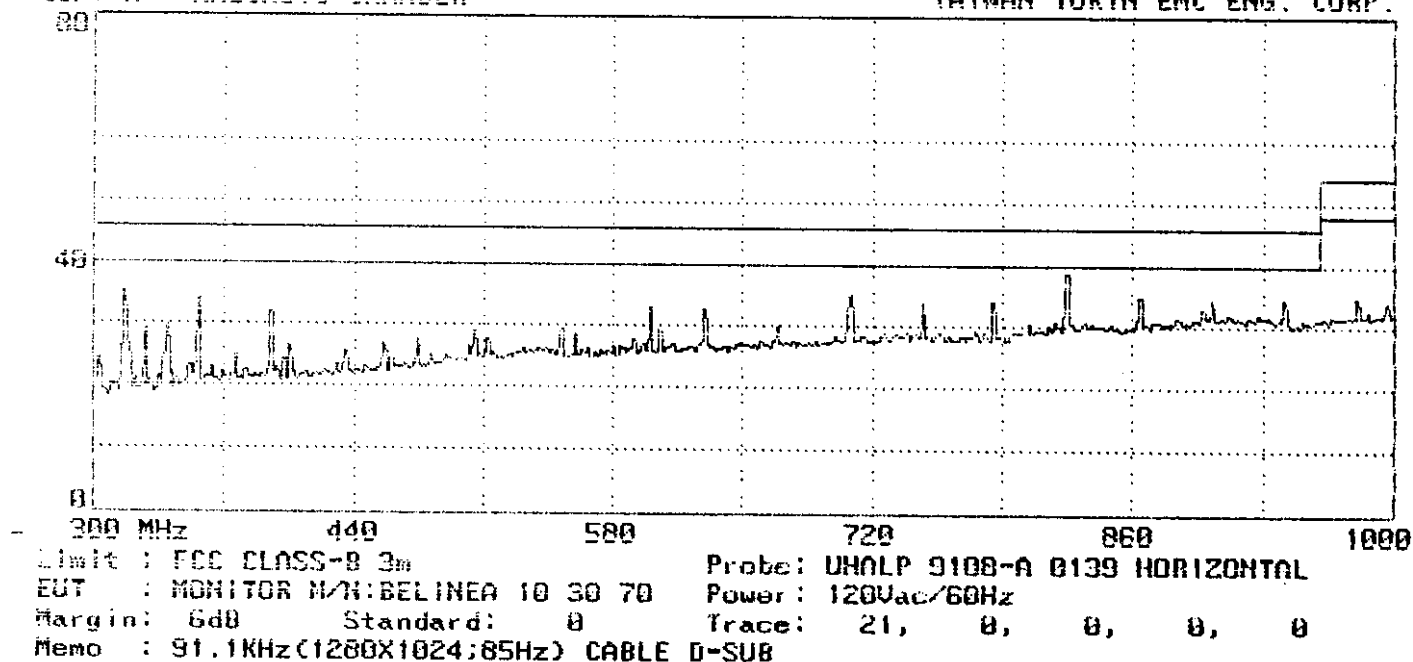
Page#: 24 SP File#: ACER.E1
dBμV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:19:26
TAIWAN TOKIN EMC ENG. CORP.



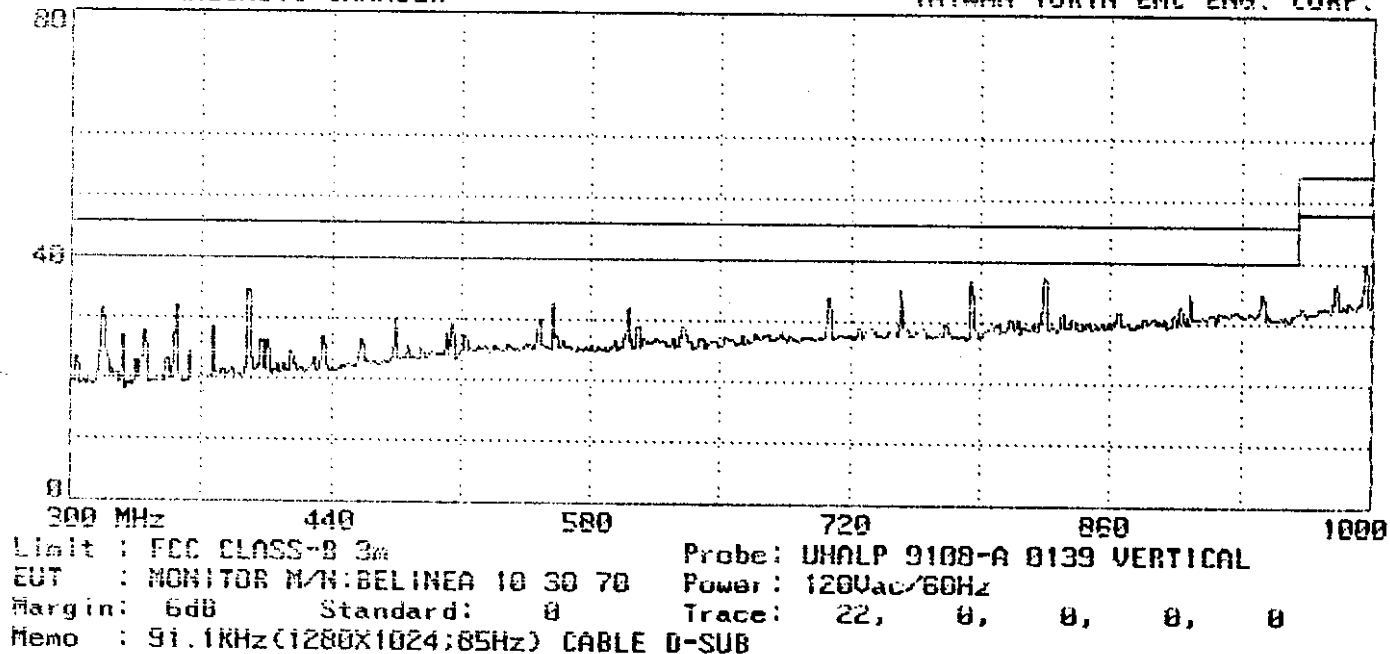
Page#: 21 SP File#: ACER.E1
dB μ V/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:10:59
TAIWAN TOKIN EMC ENG. CORP.



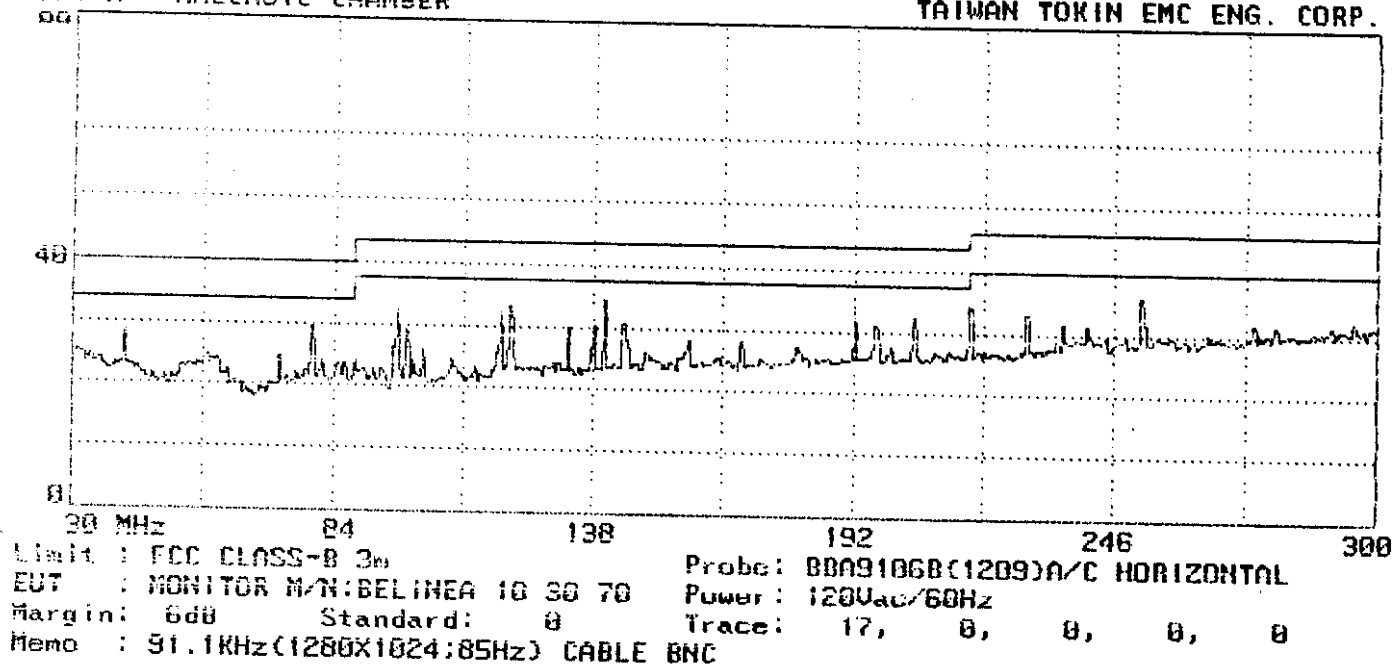
Page#: 22 SP File#: ACER.E1
dB μ V/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:13:23
TAIWAN TOKIN EMC ENG. CORP.



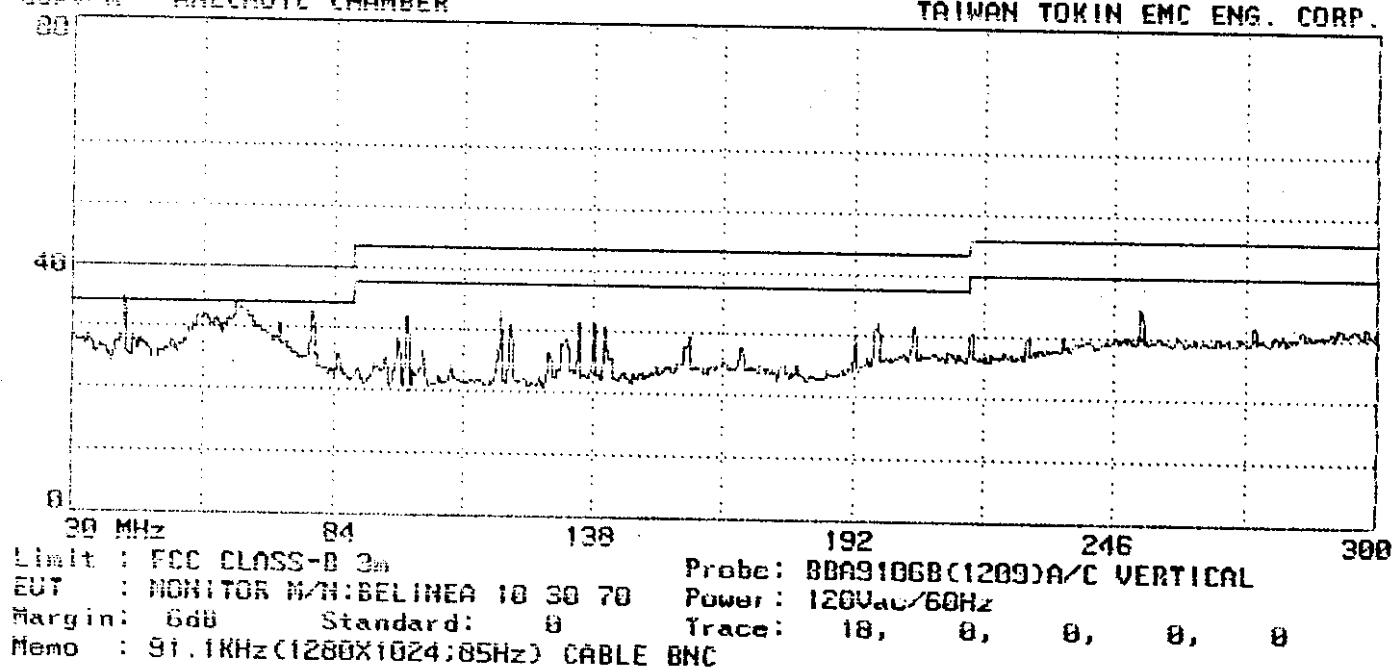
Page#: 17 SP File#: ACF8.F1
dBµV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 19:55:30
TAIWAN TOKIN EMC ENG. CORP.



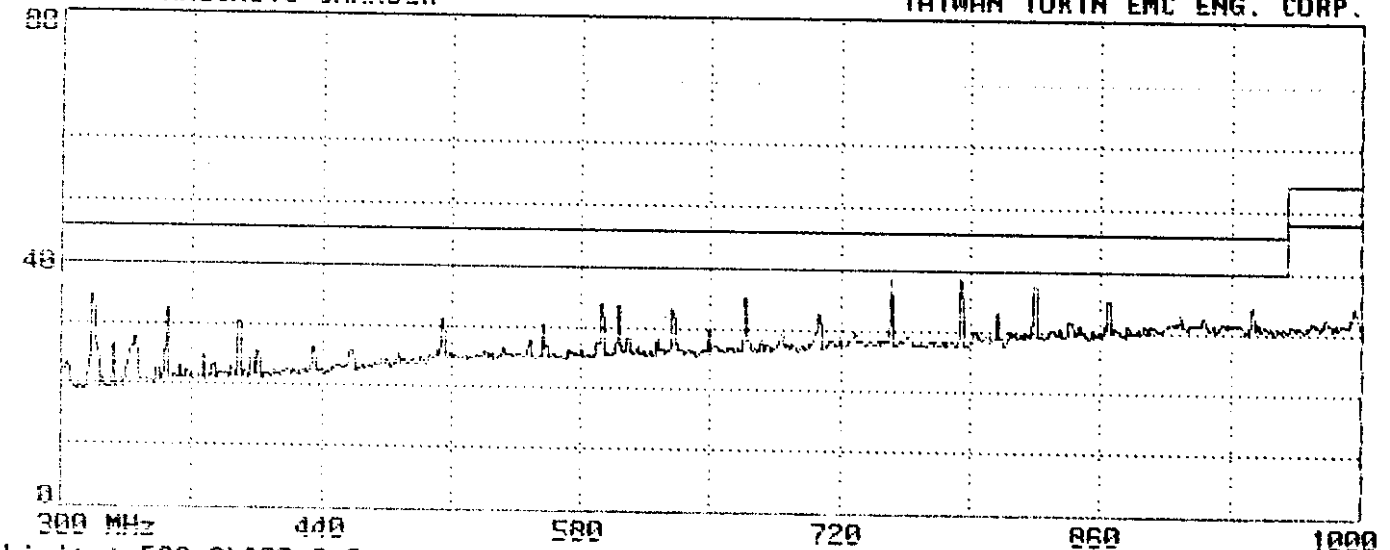
Page#: 18 SP File#: ACER.E1
dBµV/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 19:57:59
TAIWAN TOKIN EMC ENG. CORP.



Page#: 19 SP File#: ACER.E1
dB μ V/m ANECHOIC CHAMBER

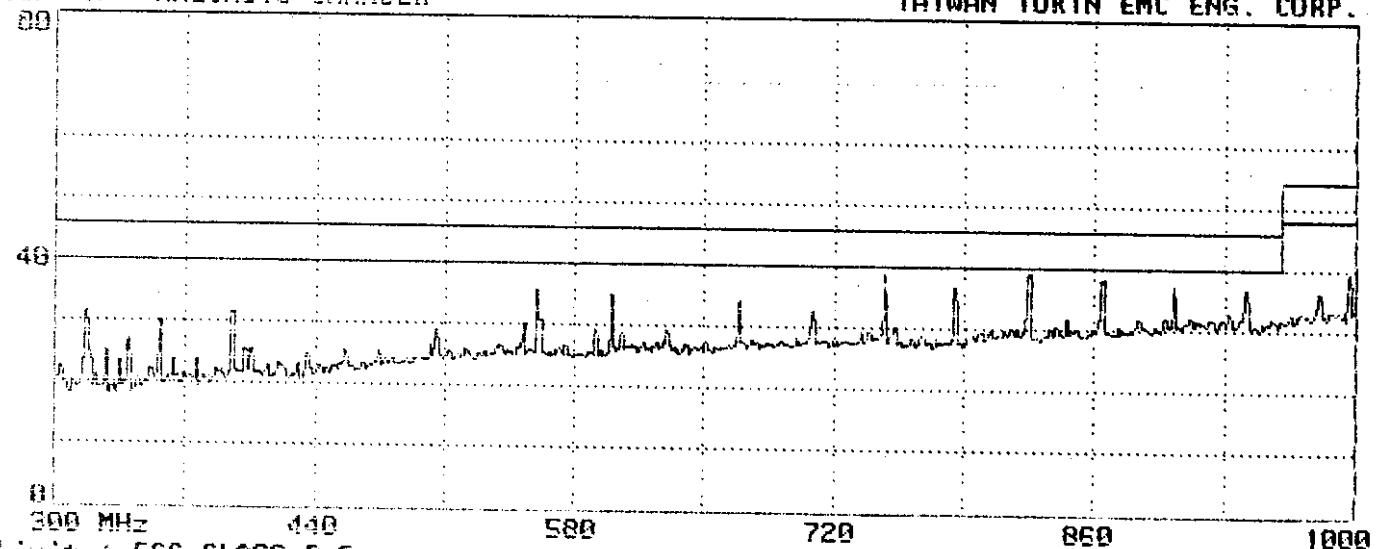
Date: 03-03-1999 Time: 20:02:25
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHPLP 9108-A 0139 HORIZONTAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 19, 0, 0, 0, 0
Memo : 91.1KHz(1200X1024;85Hz) CABLE BNC

Page#: 20 SP File#: ACER.E1
dB μ V/m ANECHOIC CHAMBER

Date: 03-03-1999 Time: 20:04:42
TAIWAN TOKIN EMC ENG. CORP.



Limit : FCC CLASS-B 3m Probe: UHPLP 9108-A 0139 VERTICAL
EUT : MONITOR M/N:BELINEA 10 30 70 Power: 120Vac/60Hz
Margin: 6dB Standard: 0 Trace: 20, 0, 0, 0, 0
Memo : 91.1KHz(1200X1024;85Hz) CABLE BNC