

FCC PART 15

EMI TEST REPORT

of

E.U.T. : notebook computer
MODEL : B750
TYPE NO. : 750
FCC ID. : NYYB750

for

APPLICANT : MOVITA TECHNOLOGIES INC.

**ADDRESS : No. 26, Wu-Chuan 7th Rd., Wu-Ku Industrial Park,
Taipei County, Taiwan, R.O.C.**

Test Performed by

**ELECTRONICS TESTING CENTER, TAIWAN
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Report Number : ET91R-04-028-01

TEST REPORT VERIFICATION

Applicant : MOVITA TECHNOLOGIES INC.
No. 26, Wu-Chuan 7th Rd., Wu-Ku Industrial Park, Taipei County,
Taiwan, R.O.C.

Manufacturer : MOVITA TECHNOLOGIES INC.
No. 26, Wu-Chuan 7th Rd., Wu-Ku Industrial Park, Taipei County,
Taiwan, R.O.C.

Description of EUT :
a) Type of EUT : notebook computer
b) Trade Name : MOVITA ; MUSTEK
c) Model No. : B750
d) Type No. : 750
e) Power Supply : Adaptor 1 : Model 1:F11203-B
I/P:100~240VAC,50/60Hz;O/P:17.2VDC,6.5A
Adaptor 2 : Model 2:EA11203
I/P:100~240V, 50/60Hz; O/P:20VDC,6.5A

Regulation Applied : FCC Rules and Regulations Part 15 Subpart B (2001)

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Issued Date: Apr. 25, 2002

Test Engineer: Jeff Chuang
(Jeff Chuang)

Approve & Authorized Signer: Will Yauo
Will Yauo, Manager
EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

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1 GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : notebook computer
- b) Trade Name : MOVITA ; MUSTEK
- c) Model No. : B750
- d) Type No. : 750
- e) Power Supply : Adaptor 1 : Model 1:F11203-B
I/P:100~240VAC,50/60Hz;O/P:17.2VDC,6.5A
Adaptor 2 : Model 2:EA11203
I/P:100~240VAC, 50/60Hz; O/P:20VDC,6.5A

1.2 Characteristics of Device

1. A standard PS/2 K/B/Mouse Jack.
2. LAN RJ-45 Jack, Mic Jack, Modem RJ-11 Jac.
3. Standard Internal HDD, CD ROM or DVD Drive.
4. One DIMM DDR Memory SIMM.
5. Two USB connector.
6. TV Out.
7. CPU speed 1.8GHz

1.3 Modification List

The list of emission source and suppression components

Location & Circuit No.	Emission Source	Suppression Component	Frequencies (or Rating)	Type / Model No & Manufacturer
Power supply Board (F11203-B)		Ferrite core x 2	14.2x6.35x28.5mm	ILAN
Power supply Board (EA11203)		Ferrite core x 2	17.5x9.5x28.5mm	ILAN
R408	EXT SPK	BEAD	ACB1608M-60	TDK
R409	EXT SPK	BEAD	ACB1608M-60	TDK
L77	EXT MIC	BEAD	ACB1608H-60	TDK
L9	EXT MIC	BEAD	ACB1608H-60	TDK
L91	GND TO GND	BEAD	ACB1608H-60	TDK
L78	PRINTER POR	BEAD	ACB1608H-120	TDK
L79	PRINTER POR	BEAD	ACB1608H-120	TDK
L80	PRINTER POR	BAED	ACB1608H-120	TDK
L80	PRINTER POR	BAED	ACB1608M-300	TDK
L81	PRINTER POR	BAED	ACB2012M-300	TDK
L82	PRINTER POR	BAED	ACB1608H-120	TDK
L83	PRINTER POR	BAED	ACB1608H-120	TDK
L84	PRINTER POR	BAED	ACB1608H-120	TDK
L85	PRINTER POR	BAED	ACB1608H-120	TDK
L86	PRINTER POR	BAED	ACB1608H-120	TDK
L87	PRINTER POR	BAED	ACB1608H-120	TDK
L88	PRINTER POR	BAED	ACB1608H-120	TDK
L89	PRINTER POR	BAED	ACB1608H-120	TDK
L90	PRINTER POR	BAED	ACB1608H-120	TDK
LCD CABLE	VGA	Shielding & GND		翰宇
LCD CABLE	VGA CONNECT	WIRE W/SHIELD		翰宇
LCD CABLE	VGA CONNECT	WIRE W/SHIELD		國際超微

1.4 Test Methodology

For notebook computer, both conducted, radiated, conducted RF output signal and spurious level and transfer switch isolation testing were performed according to the procedures in section 12.2 of ANSI C63.4 (1992).

1.5 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No.34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Taipei Hsien, Taiwan, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10, 2000.

2 LIMITATIONS AND LABELING REQUIREMENT

2.1 Definition

Unintentional radiator:

A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business or industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

2.2 Limitation

(1) Conducted Emission Limits :

Class B Line Conducted Emission Limits:

Frequency MHz	Emissions μV	Emissions dB μV
0.45 - 30.0	250	48.0

(2) Radiated Emission Limits:

According to 15.109, Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Class B Radiated Emission Limits:

Frequency MHz	Distance Meters	Radiated dB μ V/m	Radiated μ V/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
Above 960	3	54.0	500

2.3 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.4 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

3 SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a typical fashion, as a customer would normally use it.

For radiated emission measuring, the EUT was rotated to obtain the maximum level of radiated emissions. The antenna was varied in height from 1 to 4 meters above ground to obtain the maximum signal strength. Measurement was performed under the condition that a computer program was exercised to simulate data communication of EUT. Three highest emissions were verified with varying placement of the connected cable to maximize the emission from EUT.

3.2 Device for Tested System

Device	Manufacture	Model	Description
notebook computer	MOVITA TECHNOLOGIES INC.	B750	3.0m Unshielded AC Adaptor Power Cord 1.2m Unshielded RJ-11 Telephone Line 20m Shielded RJ-45 LAN Cable
Monitor	NEC	JC-1743UMA	2.0m Shielded Video Cable With 2 Core
Printer	HP	2225C+	1.2m Shielded Cable 2.0m Unshielded AC Adaptor Power Cord
USB Mouse	Logitech	M-UA34	1.5m Unshielded USB Cable
USB Mouse	Logitech	FDM-A10	1.5m Unshielded USB Cable
Keyboard	Acer	631-TW	1.0m Unshielded Cable
Microphone	----	----	1.2m Unshielded Cable
Earphone	----	----	1.3m Unshielded Cable
Hard Disk Drive	Fujitsu	KC2S15-81	----
CD-Rom	QUANTA	SCR-242	----
RAM (128 MHz)	Twin MOS DDR 128	PC-2100	----
CPU	Intel	Pentium 4 1.5GHz	----
LCD Pannel	L.G	14.1	----
Floppy Disk 3.5"	IMITSUMI	D353F3	----
Adaptor	ILAN	F11203-B	3.0m Unshielded AC Adaptor Power Cord
Adaptor	ILAN	EA11203	3.0m Unshielded AC Adaptor Power Cord
Ether Prefect	USRECOM	EP-505ST\3B	1.8m Unshielded AC Adaptor Power Cord 1.5m Unshielded RJ-45 Cable

Remark “*” means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Description for Radiated Emission Measured

According to § 15.33 (b)(3), except for a CB receiver, a receiver employing super-heterodyne techniques shall be investigated from 30 MHz up to at least the second harmonic of the highest local oscillator frequency generated in the device.

The field strength measurements of the receiver under test which was placed on an wooden turntable 0.8 meter in height. The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the equipment under test. These measurements were repeated with the receiving antenna polarized vertically.

The following data lists the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, the limit , and margin. Explanation of the Correction Factor is given in paragraph 4.3.

4.2 Radiated Emission Data

4.2.1 Below 1 GHz

Operation Mode : Full System (Run "H" Test Program)

Power Supply : Adaptor 1 120V/60Hz

Test Date: May 02, 2002 Temperature : 24 °C Humidity: 50 %

Emission Frequency (MHz)	Meter Reading (dB μ V)		Corr'd Factor (dB)	Results (dB μ V/m)		AH (m)		DRT degree		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
37.150	34.3	35.9	-9.4	24.9	26.5	4.0	1.0	180	48	30.0	-3.5
75.265	42.5	44.6	-17.8	24.7	26.8	3.9	1.0	38	158	30.0	-3.2
112.351	38.0	36.5	-11.5	26.5	25.0	3.8	1.1	75	360	30.0	-3.5
130.313	38.7	39.0	-11.7	27.0	27.3	3.9	1.0	49	90	30.0	-2.7
165.748	38.8	36.5	-12.3	26.5	24.2	4.0	1.2	180	218	30.0	-3.5
222.117	39.7	36.4	-12.6	27.1	23.8	3.8	1.3	215	90	30.0	-2.9
487.528	35.9	32.5	-4.1	31.8	28.4	3.8	2.1	300	27	37.0	-5.2
638.307	37.9	35.2	-2.9	35.0	32.3	1.4	1.9	330	315	37.0	-2.0

Note :

1. Item of margin shown in above table refer to average limit.
2. Remark “---” means that the emission level is too low to be measured, with a preamplifier of 35 dB.
3. Measuring data showed on above table was derived with peak detector function.
4. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Operation Mode : Full System (Run "H" Test Program)Poewr Supply : Adaptor 2 120V/60HzTest Date : May 02, 2002 Temperature : 24 °C Humidity: 50 %

Emission Frequency (MHz)	Meter Reading		Corr'd Factor	Results		AH		DRT		Limit @10m (dB μ V/m)	Margin (dB)
	Hor.	Ver.		(dB)	Hor.	Ver.	(m)	degree			
	Hor.	Ver.	(dB)	Hor.	Ver.	Hor.	Ver.	Hor.	Ver.		
37.155	35.2	35.2	-9.4	25.8	25.8	3.7	1.4	180	215	30.0	-4.2
112.351	38.3	36.7	-11.5	26.8	25.2	3.9	1.8	180	218	30.0	-3.2
145.164	38.2	37.2	-11.7	26.5	25.5	4.0	1.4	10	90	30.0	-3.5
169.989	37.6	37.4	-12.6	25.0	24.8	3.7	1.3	90	45	30.0	-5.0
456.026	36.9	34.5	-4.8	32.1	29.7	2.0	1.8	360	90	37.0	-4.9
638.460	37.8	36.6	-2.9	34.9	33.7	1.8	1.5	48	180	37.0	-2.1
926.230	32.4	32.9	1.6	34.0	34.5	1.0	2.3	71	218	37.0	-2.5

Note :

1. Item of margin shown in above table refer to average limit.
2. Remark “---” means that the emission level is too low to be measured, with a preamplifier of 35 dB.
3. Measuring data showed on above table was derived with peak detector function.
4. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.2.2 Above 1 GHz

Operation Mode : Full System (Run "H" Test Program)

Power Supply : Adaptor 1 120V/60Hz

Test Date : May 03, 2002 Temperature : 24 °C Humidity: 55 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H		V			Peak	Ave	Peak	Ave			
1150.058	61.0	42.1	66.3	45.5	-9.0	57.3	36.5	74.0	54.0	-17.5	120	1.5
1196.958	62.2	42.0	66.8	48.0	-8.8	58.0	39.2	74.0	54.0	-14.8	270	1.5
1222.342	61.7	41.3	68.0	48.2	-8.7	59.3	39.5	74.0	54.0	-14.5	160	1.5
1332.383	58.7	---	60.0	---	-8.2	50.5	---	74.0	54.0	-3.5	180	1.5
1415.983	59.0	---	59.7	---	-7.9	51.1	---	74.0	54.0	-2.9	145	1.3
1484.183	54.5	---	59.5	---	-7.6	51.9	---	74.0	54.0	-2.1	100	1.5
1587.542	57.7	---	58.5	---	-7.0	51.5	---	74.0	54.0	-2.5	215	1.0
1985.300	50.2	---	51.8	---	-4.7	47.1	---	74.0	54.0	-6.9	270	1.1
2263.633	49.2	---	53.2	---	-3.6	49.6	---	74.0	54.0	-4.4	180	1.5
3000.000	---	---	---	---	-1.2	---	---	74.0	54.0	---	---	---
5000.000	---	---	---	---	2.9	---	---	74.0	54.0	---	---	---
7000.000	---	---	---	---	5.4	---	---	74.0	54.0	---	---	---
10000.000	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. Remark "—" means that the emission level is too low to be measured, with a preamplifier of 35 dB.
3. Measuring data showed on above table was derived with peak detector function.
4. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "****" means that Peak result is meet average limit.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Operation Mode : Full System (Run "H" Test Program)Poewr Supply : Adaptor 2 120V/60HzTest Date : May 03, 2002 Temperature : 24 °C Humidity: 55 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H		V			Peak	Ave	Peak	Ave			
1150.060	60.8	43.8	66.5	46.1	-9.0	57.5	37.1	74.0	54.0	-16.5	120	1.50
1196.955	61.3	43.1	66.7	48.2	-8.8	57.9	39.4	74.0	54.0	-14.6	180	1.50
1223.343	61.5	43.0	67.9	49.3	-8.7	59.2	40.6	74.0	54.0	-13.4	180	1.40
1332.385	57.4	---	60.2	---	-8.2	52.0	---	74.0	54.0	-2.0	245	1.30
1415.985	58.6	---	59.5	---	-7.9	51.6	---	74.0	54.0	-2.4	210	1.50
1484.180	54.2	---	58.8	---	-7.6	51.2	---	74.0	54.0	-2.8	218	1.20
1587.543	56.8	---	57.4	---	-7.0	50.4	---	74.0	54.0	-3.6	270	1.00
1985.305	50.1	---	52.7	---	-4.7	48.0	---	74.0	54.0	-6.0	217	1.50
2263.633	50.3	---	---	---	-3.6	46.7	---	74.0	54.0	-7.3	120	1.50
3000.000	---	---	---	---	-1.2	---	---	74.0	54.0	---	---	---
5000.000	---	---	---	---	2.9	---	---	74.0	54.0	---	---	---
7000.000	---	---	---	---	5.4	---	---	74.0	54.0	---	---	---
10000.000	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. Remark “---” means that the emission level is too low to be measured, with a preamplifier of 35 dB.
3. Measuring data showed on above table was derived with peak detector function.
4. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{CORR. FACTOR}$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

4.4 Equipment for Radiation Measurement

The following test equipment are used during the radiated test .

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8568B	01/10/2003
Quasi Peak Adapter	Hewlett-Packard	85650A	01/10/2003
Pre-selector	Hewlett-Packard	85685A	01/10/2003
Pre-Amplifier	Hewlett-Packard	8447D	10/14/2002
Log Periodic Antenna	EMCO	3146	11/02/2002
Horn Antenna	EMCO	3115	05/10/2002
Preamplifier	Hewlett-Packard	8449B	05/10/2002
RF Test Receiver	Rohde & Schwarz	ESVS 30	08/06/2002
Biconical Antenna	EMCO	3110B	11/01/2002
Spectrum Analyzer	Hewlett-Packard	8564E	04/22/2002

4.5 Measuring Instrument Setup

Explanation of measuring instrument setup when respective function is used in any frequency band is as following :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	300Hz

4.6 Photos of Radiation Measuring Setup

Adaptor I

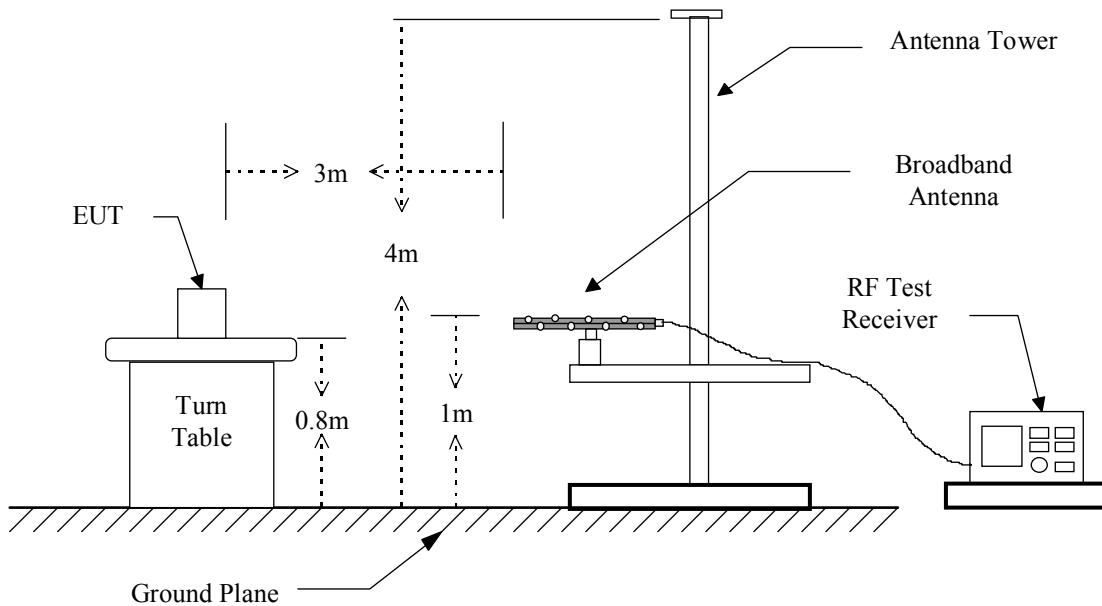
Please see Setup Photos in Exhibit F.

Adaptor II

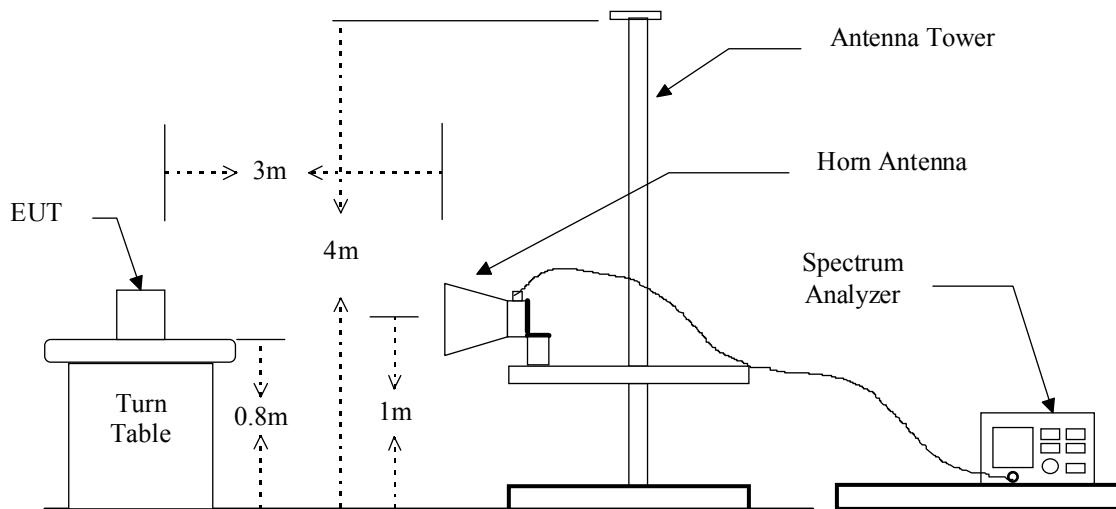
Please see Setup Photos in Exhibit F.

4.7 Open Field Test Site Setup Diagram

Radiated Emission's Frequency Below 1 GHz



Radiated Emission's Frequency Above 1 GHz



5 CONDUCTED EMISSION MEASUREMENT

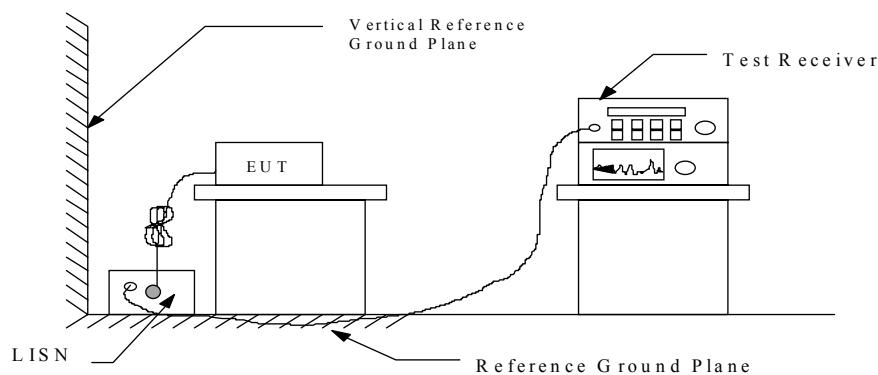
5.1 Standard Applicable

For intentional device, Line Conducted Emission Limits are in accordance to § 15.207(a), any emissions level shall not exceed 48 dBuV.

5.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



5.3 Conducted Emission Data

Operation Mode : Full System (Run "H" Test Program)

Poewr Supply : Adaptor 1 120V/60Hz

Test Date : Apr. 15, 2002 Temperature : 21 °C Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)				
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value		
	N	L1	N	L1				N	L1	N	L1	
0.158	46.3	45.8	----	----	0.2	65.6	55.6	46.5	46.0	----	----	
0.375	49.2	48.3	42.3	41.5	0.3	58.4	48.4	49.5	48.6	42.6	41.8	
0.475	46.5	45.7	38.2	39.7	0.3	56.4	46.4	46.8	46.0	38.5	40.0	
0.651	34.1	37.7	----	----	0.3	56.0	46.0	34.4	38.0	----	----	
1.025	35.7	36.9	----	----	0.3	56.0	46.0	36.0	37.2	----	----	
11.378	28.1	28.3	----	----	0.9	60.0	50.0	29.0	29.2	----	----	

Operation Mode : Full System (Run "H" Test Program)

Poewr Supply : Adaptor 2 120V/60Hz

Test Date : Apr. 15, 2002 Temperature : 21 °C Humidity: 60 %

Freq. (MHz)	Meter Reading (dB μ V)				Factor (dB)	Limit (dB μ V)		Result (dB μ V)				
	Q.P Value		AVG. Value			Q.P Value	AVG. Value	Q.P Value		AVG. Value		
	N	L1	N	L1				N	L1	N	L1	
0.239	54.4	54.7	48.9	48.8	0.2	62.1	52.1	54.6	54.9	49.1	49.0	
0.358	44.5	44.1	37.1	36.7	0.3	58.8	48.8	44.8	44.4	37.4	37.0	
0.600	41.8	41.9	36.8	37.3	0.3	56.0	46.0	42.1	42.2	37.1	37.6	
1.190	40.2	40.0	----	----	0.3	56.0	46.0	40.5	40.3	----	----	
1.665	39.6	39.5	----	----	0.4	56.0	46.0	40.0	39.9	----	----	
18.513	35.6	31.5	----	----	1.3	60.0	50.0	36.9	32.8	----	----	

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB μ V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB μ V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

$$\begin{aligned}\text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \text{ } \mu \text{ V}\end{aligned}$$

5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test.

Equipment	Manufacturer	Model No.	Next Cal. Date
RF Test Receiver	Rohde and Schwarz	ESH3	01/03/2003
Spectrum Monitor	Rohde and Schwarz	EZM	N.C.R.
Line Impedance Stabilization network	Rohde and Schwarz	ESH2-Z5	08/06/2002
Line Impedance Stabilization network	Kyoritsu	KNW-407	12/02/2002
Plotter	Hewlett-Packard	7440A	N/A
Shielded Room	Riken	N/A	N.C.R.

5.6 Photos of Conduction Measuring Setup

Adaptor I

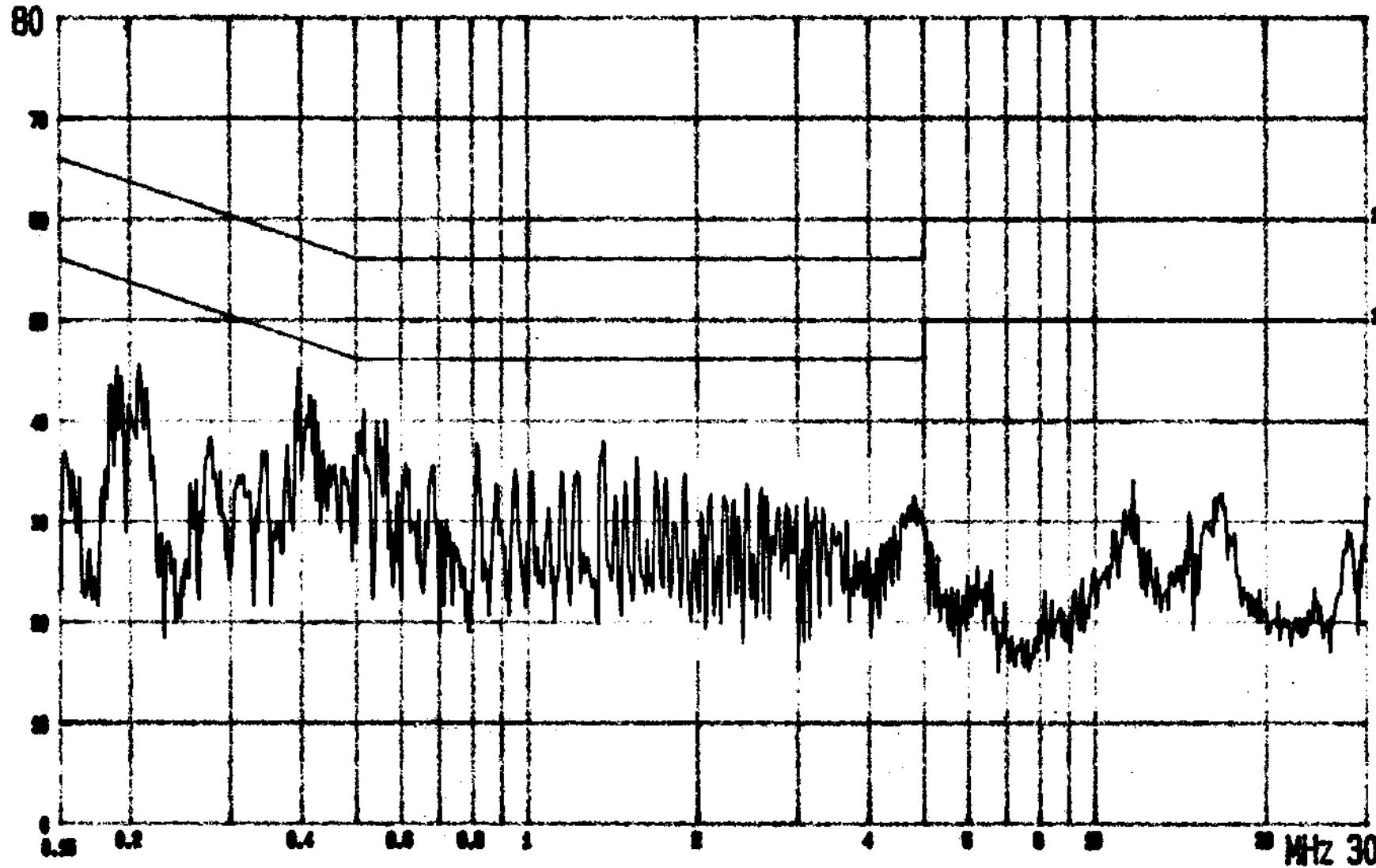
Please see Setup Photos in Exhibit F.

Adaptor II

Please see Setup Photos in Exhibit F.

APPENDIX 1 : PLOTTED DATA FOR CONDUCTED EMISSION

dBuV

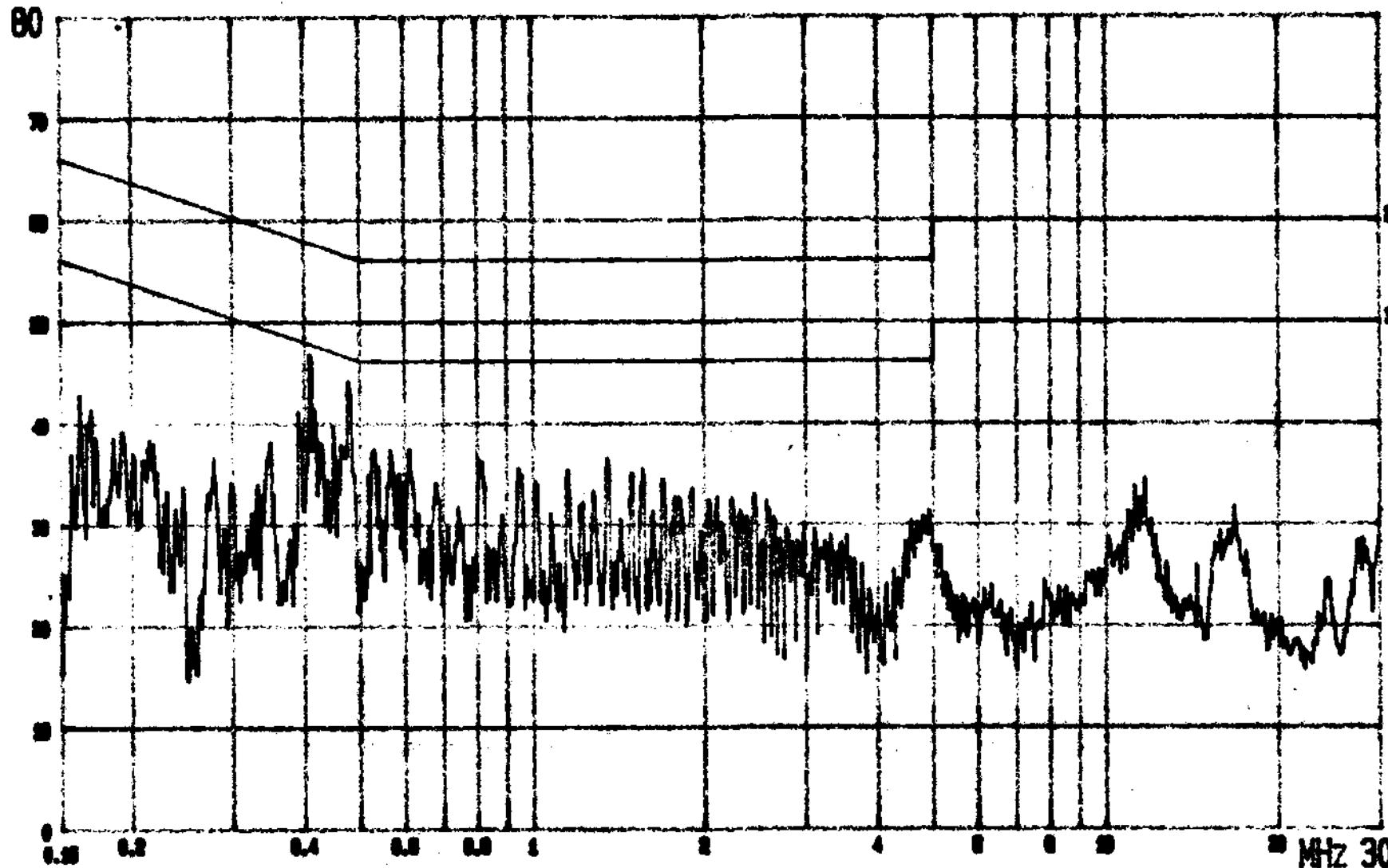


CONDUCTED TEST
MODEL: B750

EUT: NOTEBOOK PC
POWER: 120V/60Hz

2: QP.; 3: AVG CLASS B LIMIT
LISN: N ETC EMI LAB.

dB_{UV}

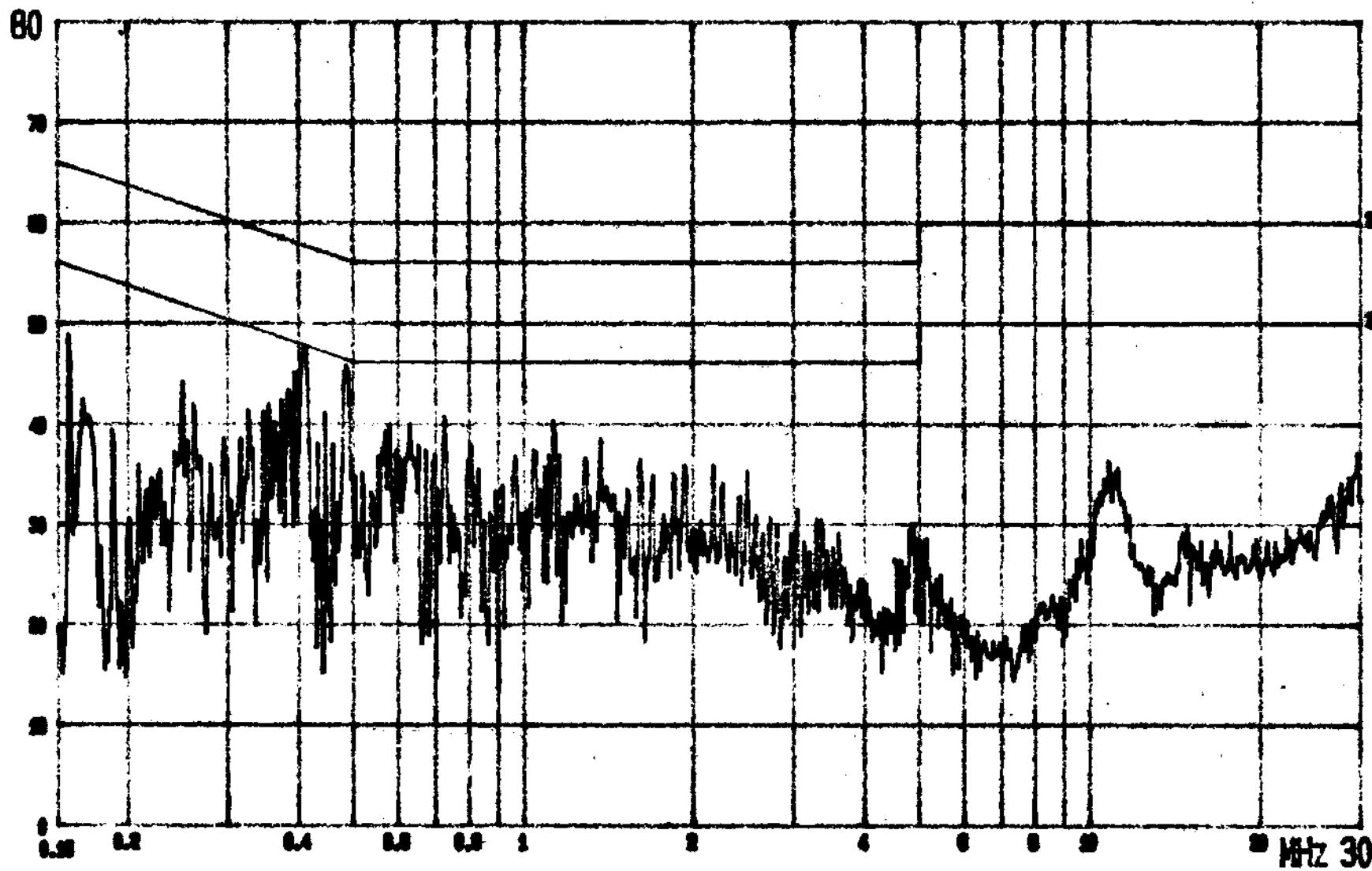


CONDUCTED TEST
MODEL: B750

EUT: NOTEBOOK PC
POWER: 120V/60Hz

2: QP.; 3: AVG CLASS B LIMIT
LISN: L1 ETC EMI LAB.

dB_{UV}

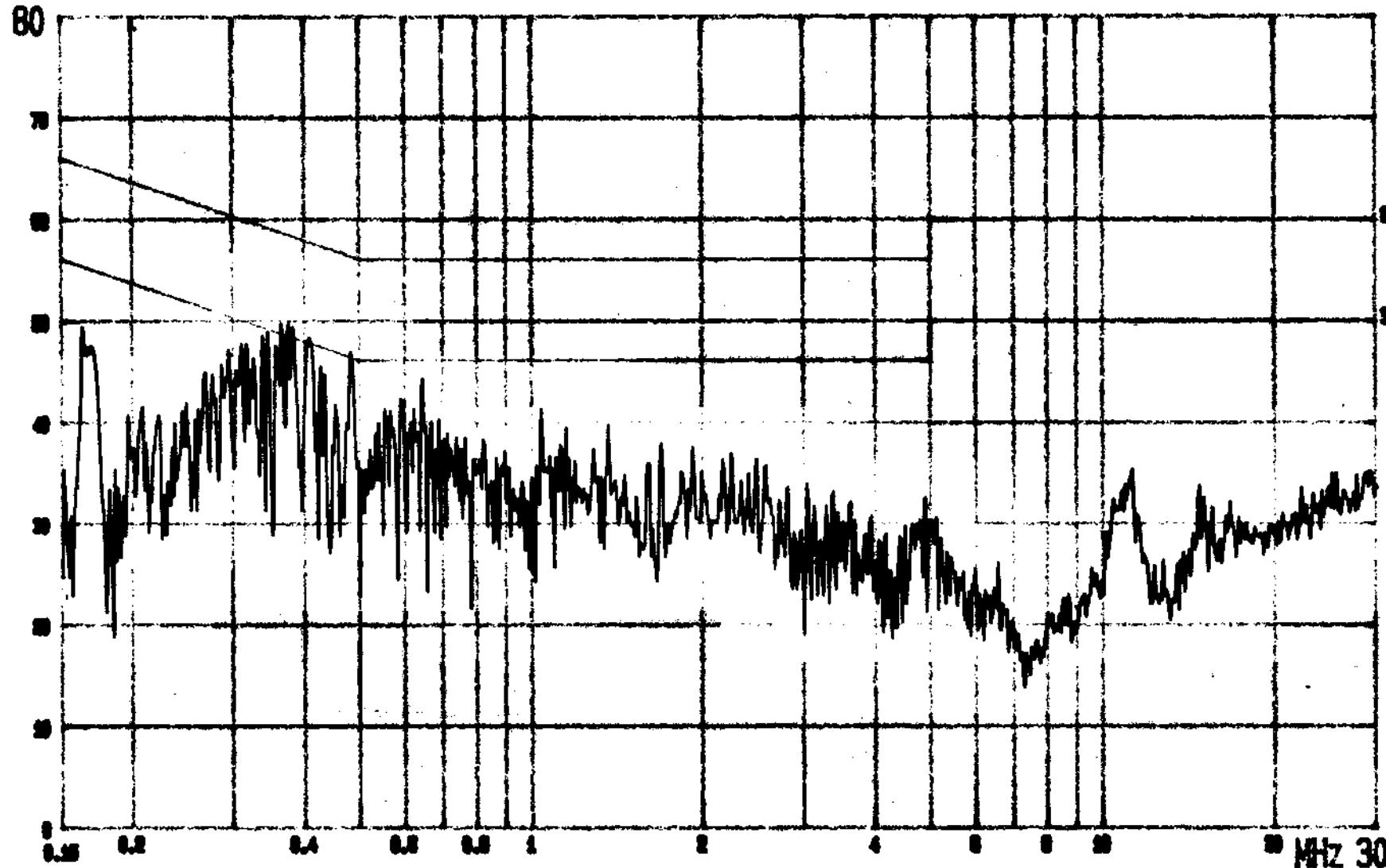


CONDUCTED TEST
MODEL: B750

EUT: NOTEBOOK PC
POWER: 120V/60Hz

2: QP.; 3: AVG CLASS B LIMIT
LISN: N ETC EMI LAB.

dBuV



CONDUCTED TEST
MODEL: B750

EUT: NOTEBOOK PC
POWER: 120V/60Hz

2: QP; 3: AVG
LISN: L1 CLASS B LIMIT
ETC EMI LAB.