

GESTEK

Report #:984023F

NO 3, Pau-Tou-Tsuo Valley, Chia-Pau Tsuen, Lin Kou Hsiang, Taipei County, Taiwan, R.O.C. Tel:886-2-603-5321 Fax:886-2-603-5325

Test Report
Application for Certification
Class II permissive Change
On Behalf Of
First International Computer Inc.
Notebook Computer

Model: DESIGNOTE60,60
StepNote SK (EVEREX)
MultiMobile 60T (Multitech)
DESIGNOTE6000,6000
DESIGNOTE6100,6100
SOLEIL7250 (Legend)
SOLEIL6500 (Legend)

FCC ID : EUNDESIGNOTE60

Prepared For:
First International Computer Inc.
6F., Formosa Plastics Rear Bldg 201, Tung-Hwa N. Road,
Taipei, Taiwan, R.O.C.

Report By :Global EMC Standard Tech. Corp.
No.3 Pau-Tou-Tsuo Valley, Chia-Pau
Tsuen, Lin Kou Hsiang, Taipei Country,
Taiwan, R.O.C.
Tel : (02) 603-5321
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First International Computer Inc.

Notebook Computer

Model No.: DESIGNOTE60,60

StepNote SK (EVEREX)

MultiMobile 60T (Multitech)

DESIGNOTE6000,6000

DESIGNOTE6100,6100

SOLEIL7250 (Legend)

SOLEIL6500 (Legend)

FCC ID: EUNDESIGNOTE60

Application No. : 984023F

Application Date : Apr. 22, 1998



Global EMC Standard Tech. Corp.

First International Computer, Inc.

NBRD Office: B1 No.133, Ming Sheng East Rd., Section 3, Taipei, Taiwan, R.O.C.

Tel: +886-2-7168527 / Fax: +886-2-5461591

FCC ID : EUNDESIGNOTE60

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road,
Columbia, MD 21046

Date: Apr. 22, 1998

Subject : RFI related modifications incorporated into unit with FCC ID : EUNDESIGNOTE60

Dear Sir,

This letter services as our declaration that all modifications to FCC ID. : EUNDESIGNOTE60 as listed in Section 6.0 of the test report submitted by Global EMC Standard Tech. Corp. We further declare that the same modifications will be implemented into all production unit to enhance compliance of the unit to FCC limits.

If you have any quesations or require any other information please do not hesitate to contact me.

Sincerely Yours,

Rex Kuo

Rex Kuo/ Engineer

First International Computer, Inc.

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First International Computer Inc.
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Model: DESIGNOTE60,60
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GESTEK 98-F012

1. Test Report Certification

Applicant : First International Computer Inc.**Manufacturer : First International Computer Inc.****EUT Description : Notebook Computer**

(A) FCC ID : EUNDESIGNOTE60
(B) Model No. : DESIGNOTE60,60
StepNote SK (EVEREX)
MultiMobile 60T (Multitech)
DESIGNOTE6000,6000
DESIGNOTE6100,6100
SOLEIL7250 (Legend)
SOLEIL6500 (Legend)
(C) Serial No. : N/A
(D) Power : 100~240V , 50/60Hz

MEASUREMENT PROCEDURE USED :

CFR 47, Part 15 Radio Frequency Device Subpart B Unintentional Radiators Class B :1996
CISPR 22 Limits and methods of measurement of radio disturbance characteristics of information technology equipment: 1993
ANSI C63.4 Methods of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9kHz to 40GHz. :1992

THE MEASUREMENT SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE FCC LIMITS APPLICABLE.

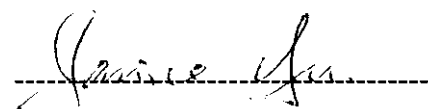
NVLAP[®]

Sample Received Date : Apr. 10, 1998

Final Test Date : Apr. 22, 1998

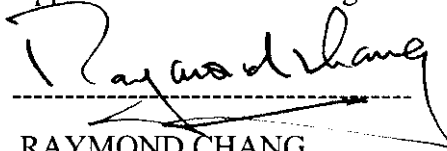
Documented by : Cindy Chiu

Test Engineer :



JANICE YU

Approve & Authorized Signer :



RAYMOND CHANG

This test data shown below is traceable to NIST.

2. General Information

2.1 Production Description

Description : Notebook Computer

Model Number : DESIGNOTE60,60
 StepNote SK (EVEREX)
 MultiMobile 60T (Multitech)
 DESIGNOTE6000,6000
 DESIGNOTE6100,6100
 SOLEIL7250 (Legend)
 SOLEIL6500 (Legend)

Serial Number : Prototype

Applicant : First International Computer Inc.

Address : 6F., Formosa Plastics Rear Bldg 201, Tung-Hwa N. Road, Taipei, Taiwan, R.O.C.

Manufacturer : First International Computer Inc.

Address : 6F., Formosa Plastics Rear Bldg 201, Tung-Hwa N. Road, Taipei, Taiwan, R.O.C.

CPU : Intel Tillamook 266MHz (TCP) . Clock: 66MHz

AC Adaptor : Lite-On, PA-1400-19XX
 (The "X" in the designation may be "FI" or null)

LCD Panel : 12.1" DSTN SVGA (1024 x 768, VI)

Model Differences (If Applicable) :

Mode 1: EXT FDD

CPU	LS-120	HDD	CD-ROM	Battery	Adaptor
Intel Tillamook 266MHz Clock: 66MHz	Mitsubishi , MF357H	4.1GB Fujitsu, MHC2040AT	Toshiba, SM-1702B	Panasonic, 18650, 1400mA	Lite-On,

Note: 1. This test report reflects the worst-case data for each clock frequency/video resolution and for each option listed in Section 2.2.

2.2 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

☒ Host Notebook Computer (EUT)

Model Number	: DESIGNOTE60,60 StepNote SK (EVEREX) MultiMobile 60T (Multitech) DESIGNOTE6000,6000 DESIGNOTE6100,6100 SOLEIL7250 (Legend) SOLEIL6500 (Legend)
Serial Number	: N/A
Manufacturer	: First International Computer Inc.
CPU	: Intel Tillamook 266MHz, Clock: 66MHz
Floppy Disk Driver	: Mitsubishi, MF357H-262MF S/N: S001027
4.1 GB Hard Disk Driver	: Hitachi, DK-227A-41
12.1" DSTN SVGA	: Sunyo, LM-JK53-22NTR (1024, 768, 121)
24X CD-ROM	: Toshiba, SM-1702B
Battery Pack	: Panasonic, 18650, 1400mA
I/O Card	: On Board
VGA Card	: On Board
Fax Modem Card	: Archtek, V1456VQL19J
AC Adaptor	: Lite-On, PA-1400-19XX (The "X" in the designation may be "FI" or null)
Power Cord	: Non-Shielded, Detachable.

☒ Monitor

Model Number	: C562DU
Serial Number	: 544FA000E00130
FCC ID	: GKR562DU
Manufacturer	: ATEC
Data Cable	: Shielded, Undetachable, 1.5m
Power Cord	: Shielded, Detachable, 1.8m

☒ Keyboard(PS2)

Model Number	: 5140
Serial Number	: 867110685
FCC ID	: E5XKBM10410
Manufacturer	: BTC
Data Cable	: Sheiled, Undetachable, 1.2 m

☒ Modem

Model Number : 1414
Serial Number : 960018044
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Adaptor & Power Cord : Non-Shielded, Detachable, 1.5m
Data Cable : Shielded, Detachable, 1.2m

☒ Microphone

Model Number : N/A
Serial Number : N/A
FCC ID : N/A
Manufacturer : AIWA
Data Cable : Non-Shielded, Undetachable, 1m

☒ Speaker

Model Number : DS-203
Serial Number : N/A
FCC ID : N/A
Manufacturer : Crocodile
Power Cord : N/A
Data Cable : Shielded, Undetachable, 1m

☒ Scanner

Model Number : S-UA1
Serial Number : LTC74803633
FCC ID : DZL211089
Manufacturer : Logitech
Power with Data cable : Shielded, Undetachable, 1.5m with DC 5V

☒ Telephone 1

Model Number : ST-203
Serial Number : 4K03008
FCC ID : N/A
Manufacturer : Sinoca
Power Cord : Non-Shielded, Detachable, 1.5m
Data Cable : Non-Shielded, Detachable, 1.5m

☒ Earphone

Model Number : PH-12B
Serial Number : N/A
Manufacturer : PRO2 International Corp.
Power Cord : N/A
Data Cable : Non-Shielded, Undetachable, 1.2 m

☒ Radio Receiver

Model Number : HS-GS162
Serial Number : LYJ1084567
FCC ID : N/A
Manufacturer : AIWA CO., LTD
Power Cord : N/A (Battery)

2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

2.4 Test Facility

Site Description : Aug. 10, 1995 File on
Federal Communication Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2

Name of firm : Global EMC Standard Tech. Corp.

Site location : No. 3 Pau-Tou Valley, Chia-Pau Tsuen, Lin Kou
Tsiang, Taipei Country, Taiwan, R.O.C.

3. Conducted Power Line Test

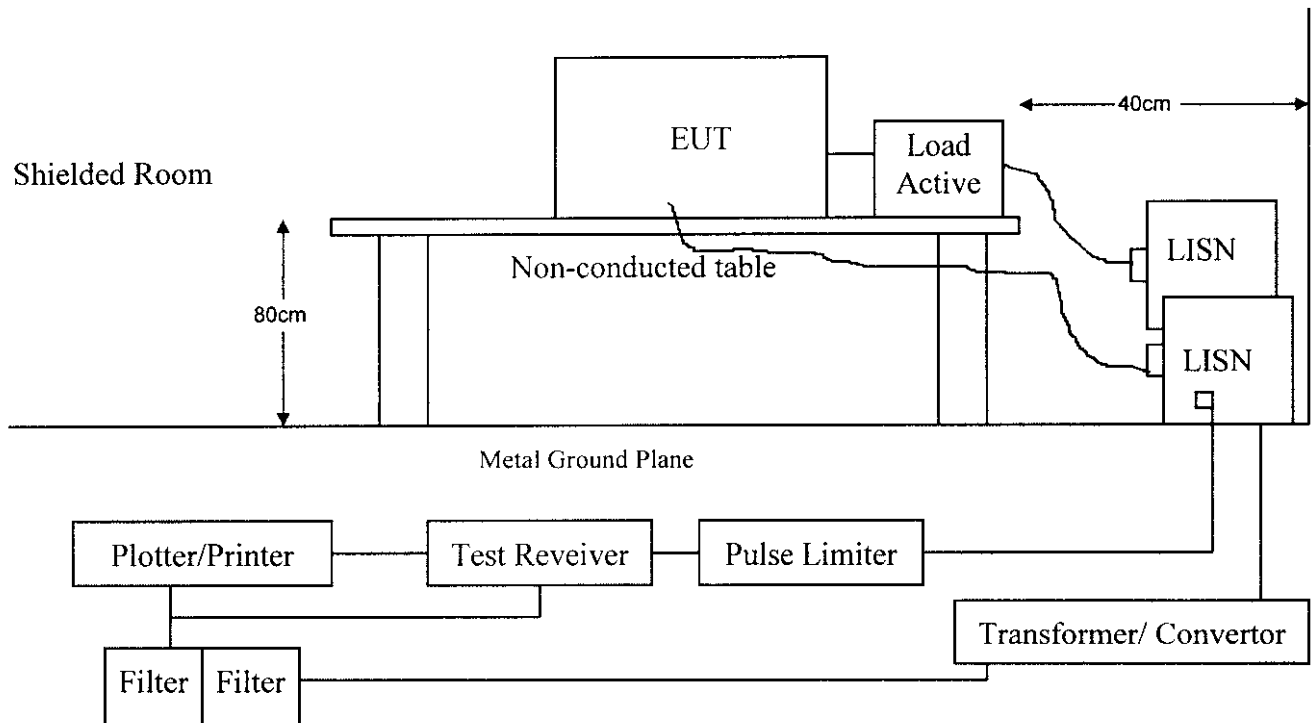
3.1 Test Equipments

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

Instrument	Manufacturer	Type /Serial No.	Last Calibration	Location	C.E.
Test Receiver	Rohde & Schwarz	ESHS 30 / 8281091010	Dec. 24, 1997	Shield Room #1	✓
L.I.S.N.	Kyoritsu	KNW-407	Jul.1997	Shield Room #1	
L.I.S.N.	Solar	8012-50-R24 / 90038	Jun. 05, 1997	Shield Room #1	✓
L.I.S.N.	EMCO	3825/2 / 91111-1902	Jul.1997	Shield Room #1	
L.I.S.N.	Rohde & Schwarz	ESH3-Z5 / 840567/002	Jun. 05, 1997	Shield Room #1	✓
L.I.S.N.	Schwarzbeck	NNLK 8121	Apr. 1998	Shield Room #1	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	Jan. 11, 1998	Shield Room #1	✓

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2 Block Diagram of Test Setup



3.3 Conducted Powerline Emission Limit

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	uV	dBuV	uV	dBuV
0.45 - 1.705	1000	60.0	250	48.0
1.705 - 30	3000	69.5	250	48.0

Remarks : 1. RF Line Voltage (dBuV) = 20 log RF Line Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3.4 EUT Configuration on Measurement

The equipments which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

3.5.1 Setup the EUT and simulators as shown on 3.2.

3.5.2 Turn on the power of all equipments.

3.5.3 Boot the PC form Hard Disk.

3.5.4 Play CD Disk Music in windows environment.

3.5.5 PC sent "H" Pattern to Both LCD Panel And Ext. Monitor. $(1024 \times 768, \mu I)$

3.5.6 PC sent "H" Pattern to Parallel (printer) port.

3.5.7 PC sent "H" Pattern to Serial port.

3.5.8 Repeat 3.5.5 to 3.5.7

3.6 Conducted Emission Data

The measurement range of conducted emission which is from **0.45 MHz to 30 MHz** was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

CONDUCTED EMISSION DATA

Date of Test	:	Apr. 20, 1998	Temperature	:	23.6 °C
EUT	:	Notebook Computer	Humidity	:	61.0 %
Test Mode	:	Mode 1	Display Pattern	:	H Pattern

FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	dBuV	uV	dBuV	uV	uV
0.46302	37.5	74.99	40.3	103.51	250
1.20639	37.0	70.79	36.4	66.07	250
2.50533	39.0	89.13	37.4	74.13	250
3.71257	40.0	100.0	41.0	112.20	250
**8.04851	41.3	116.14	41.2	114.82	250
24.00119	39.0	89.13	39.5	94.41	250

Remarks : 1. All readings are Quasi-peak and average values.

2. “ * ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.

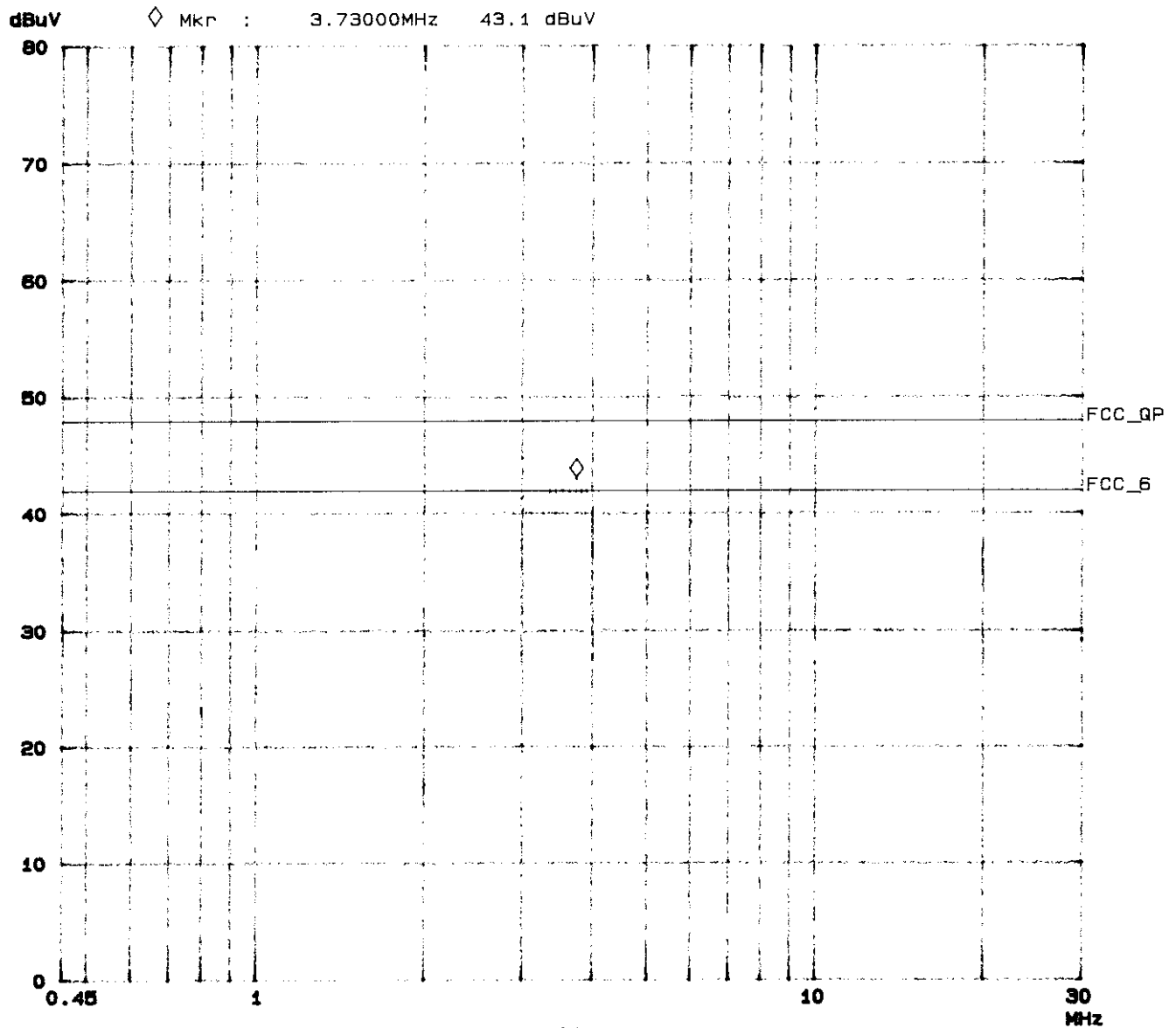
3. “ ** ” means that this data is the worst case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

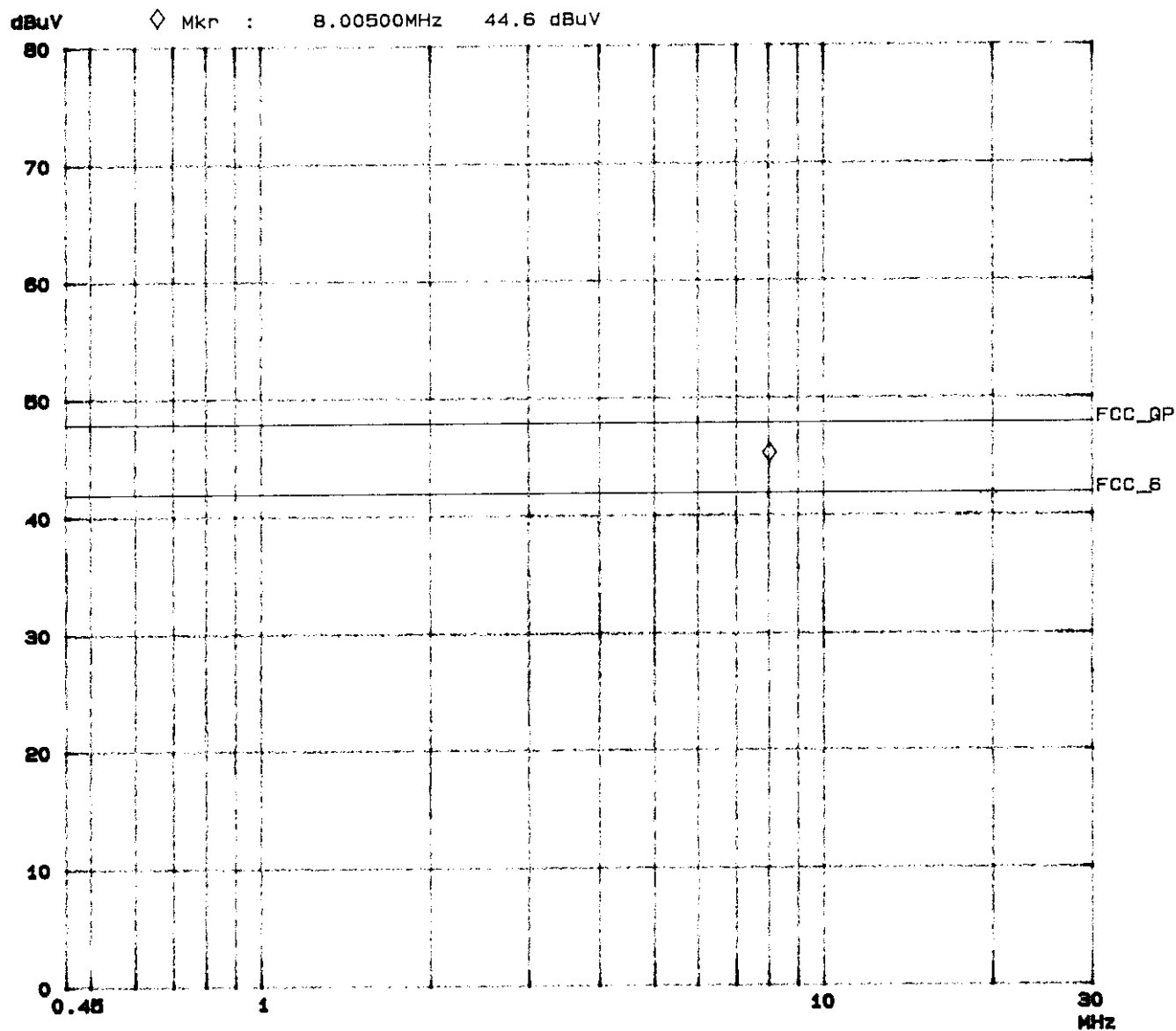
EUT: NOTEBOOK COMPUTER
Manuf: FIC
Op Cond: FULL SYSTEM
Operator: MILLER
Test Spec: FCC CLASS B
Comment: Line 1
M/N: Birch+ 1.1



ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK COMPUTER
Manuf: FIC
Op Cond: FULL SYSTEM
Operator: MILLER
Test Spec: FCC CLASS B
Comment: Line 2
M/N: Birch+ 1.1



4. Radiation Emission Test

4.1 Test Equipment

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

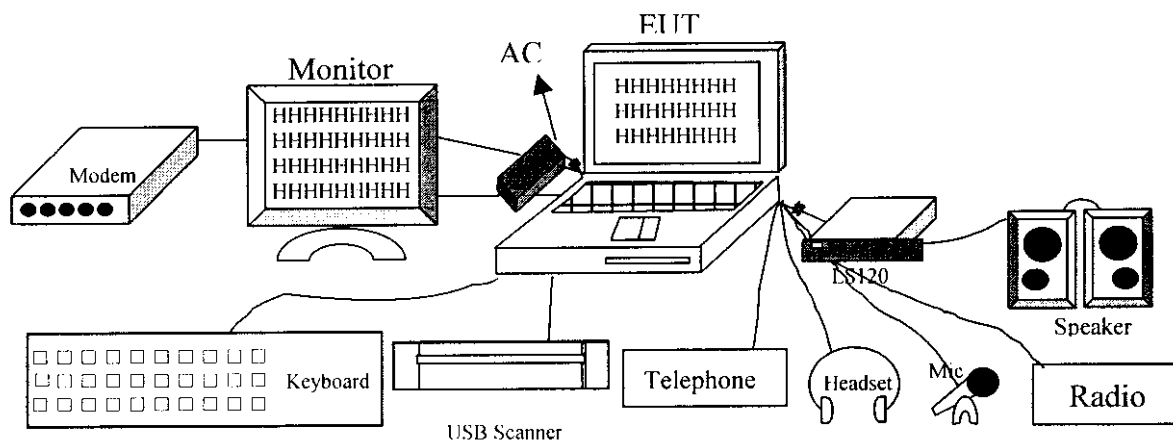
Radiated test was performed on : ☒ Site #1 ☐ Site #2

Instrument	Manufacturer	Type /Serial No.	Last Calibration	Site #1	Site #2
Test Receiver	Rohde & Schwarz	ESVS 30/829007/014	Nov. 15,1997	✓	
Spectrum Analyzer	Anristu	MA2601B/MT16442	Jun. 11,1997	✓	
Pre-Amplifier	HP	7447F/3113A04998	Nov. 16,1997	✓	
Test Receiver	Rohde & Schwarz	ESVS 10/8421122/001	Dec. 26,1997		✓
Spectrum Analyzer	HP	8568B/4315B05847	Jan. 05,1998		✓
Pre Amplifier	HP	8447D/3113A04487	Jan. 05,1998		✓
Antenna 30Mhz-2Ghz	Chase	CBL 6112/2039	Jan. 05,1998	✓	
Bilog Antenna	Chase	CBL6111/1380	May. 22,1997		✓
Dipole Antenna	Schwarzbeck	VHAP/719,UHAP/736	Jun.11,1997		

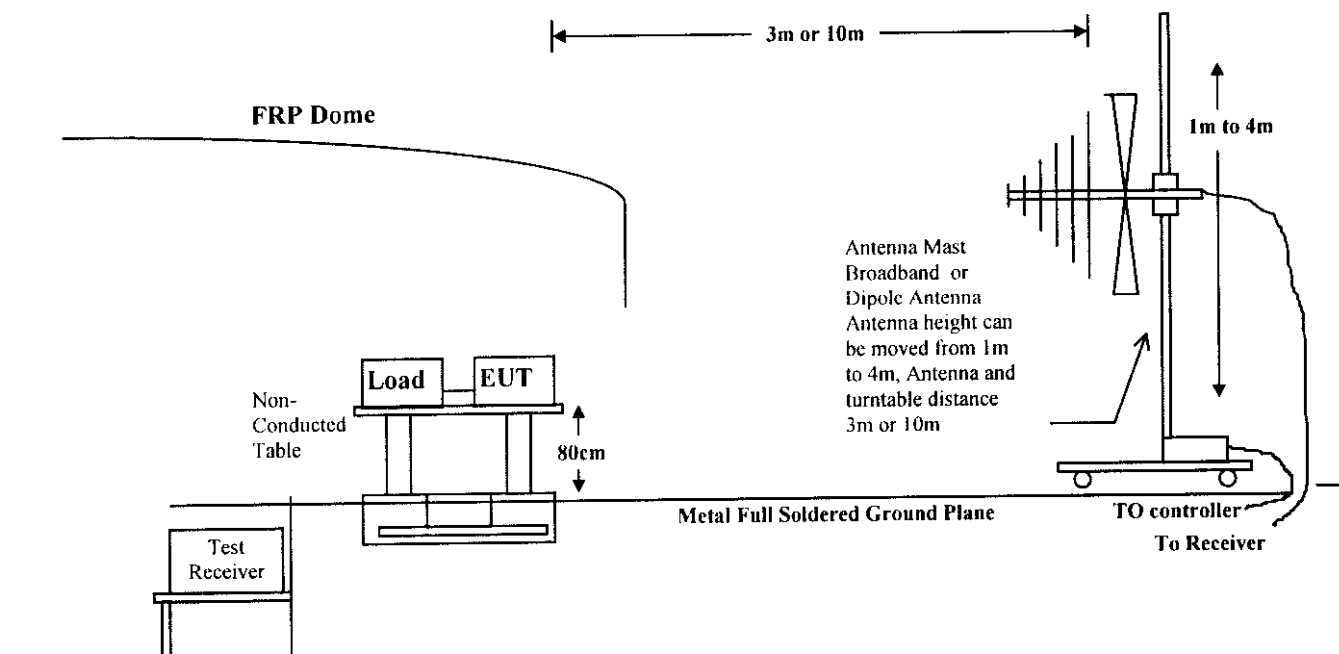
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

4.2 Test Setup

4.2.1 Block Diagram of Connections between EUT and simulators



4.2.2 Open Test Site Setup Diagram



4.3 Radiated Emission Limit

4.3.1 FCC Class B Limits at 3m

Frequency	Distance	Field Strength	
		uV/M	dBuV/M
MHz	Meter		
30 - 88	3	100	40.0
88 - 216	3	150	43.5
216 - 960	3	200	46.0
960 - 2000	3	500	54.0

4.3.2 CISPR Class B Limits at 10m

Frequency	Distance	Field Strength
MHz	Meter	dB(uV/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.

4.4 EUT Configuration

The equipments which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.5 Operating Condition of EUT

Same as Conducted Power Line Test which is listed in 3.5.

4.6 Radiated Emission Data

The measurement range of radiated emission which is from 30 MHz to 2 GHz was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

The total uncertainty for this test is as follows:

- Uncertainty in the field strength measured (3m antenna distance): $< \pm 4$ dB
- Uncertainty in the field strength measured (10m antenna distance): $< \pm 4$ dB

The uncertainty is calculated in accordance with NAMAS document NIS 81, and is given as 2 standard deviations.

Radiated Emission Data

Date of Test :04-20,1998 Temperature :23.5 deg/C
 EUT :NOTEBOOK PC Humidity :62 %RH
 Test Mode. :Mode 1 Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limits (uV/m)
84.618	2.16	7.33	12.07	21.56	11.96	100
130.301	2.63	11.09	12.74	26.46	21.04	150
169.363	2.80	9.49	21.60	33.90	49.52	150
197.589	2.93	8.87	22.38	34.19	51.20	150
219.998	3.03	10.03	24.22	37.28	73.09	200
233.879	3.09	10.87	17.88	31.84	39.10	200
254.042	3.18	11.86	18.77	33.81	49.03	200
310.497	3.43	13.29	25.45	42.17	128.39	200
400.930	3.73	15.81	19.12	38.66	85.73	200
434.328	3.84	16.24	18.95	39.03	89.45	200
*467.758	3.95	16.61	23.00	43.56	150.62	200
536.311	4.18	18.26	15.71	38.15	80.81	200
564.540	4.27	18.86	14.80	37.93	78.81	200
735.022	4.82	20.91	9.24	34.97	56.07	200

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worst case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss
 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :04-20,1998 Temperature :23.5 deg/C
 EUT :NOTEBOOK PC Humidity :62 %RH
 Test Mode. :Mode 1 Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limits (uV/m)
125.291	2.61	11.07	12.22	25.90	19.72	150
167.052	2.79	9.62	19.93	32.35	41.43	150
169.362	2.80	9.49	17.52	29.82	30.96	150
197.584	2.93	8.87	17.39	29.20	28.82	150
200.463	2.94	8.90	22.19	34.03	50.31	150
225.814	3.06	10.36	17.69	31.11	35.94	200
254.043	3.18	11.86	12.87	27.91	24.86	200
300.690	3.40	13.03	18.32	34.75	54.61	200
*400.912	3.73	15.81	18.71	38.25	81.78	200
467.751	3.95	16.61	16.94	37.50	74.97	200
564.541	4.27	18.86	13.15	36.28	65.18	200
601.388	4.39	18.92	13.42	36.73	68.64	200
668.233	4.60	20.11	9.55	34.26	51.65	200
735.022	4.82	20.91	9.42	35.15	57.24	200

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.

2.“ * ”, means this data is worse case emission level.

3.Emission Level = Reading Level + Antenna Factor + Cable loss

4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :04-20,1998 Temperature :23.5 deg/C
 EUT :NOTEBOOK PC Humidity :62 %RH
 Test Mode. :Mode 1 (Peak) Display Pattern:H Pattern

Frequency	Cable	Antenna	Reading Level	Emission Level	Limits	
	Loss	Factor	Horizontal	Horizontal		
(MHz)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(uV/m)	(uV/m)
1061.880	5.89	21.24	33.40	24.93	17.64	500
1165.250	6.21	21.85	31.20	23.83	15.55	500
*1211.880	6.35	22.20	33.40	26.59	21.36	500

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are Peak value.
- 2.“ * ”, means this data is worse case emission level.
- 3.Emission Level = Reading Level + Antenna Factor + Cable loss
-Amp Factor (35.60, 35.44, 35.36)
- 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :04-20,1998 Temperature :23.5 deg/C
 EUT :NOTEBOOK PC Humidity :62 %RH
 Test Mode. :Mode 1 (Peak) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limits (uV/m)
1018.750	5.76	22.60	32.50	25.19	18.19	500
1102.900	6.02	21.41	32.80	24.69	17.17	500
*1217.130	6.38	22.26	32.10	25.38	18.59	500

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are Peak value.
- 2.“ * ”, means this data is worse case emission level.
- 3.Emission Level = Reading Level + Antenna Factor + Cable loss
-Amp Factor (35.67, 35.54, 35.35)
- 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :04-20,1998 Temperature :23.5 deg/C
 EUT :NOTEBOOK PC Humidity :62 %RH
 Test Mode. :Mode 1 (Average) Display Pattern:H Pattern

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	(uV/m)	Limits (uV/m)
1061.880	5.89	21.24	24.60	16.13	6.41	500
1165.250	6.21	21.85	24.45	17.08	7.15	500
*1211.880	6.35	22.20	24.67	17.86	7.82	500

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.
 2.“ * ”, means this data is worse case emission level.
 3.Emission Level = Reading Level + Antenna Factor + Cable loss
 -Amp Factor (35.60, 35.44, 35.36)
 4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test : 04-20, 1998
EUT : NOTEBOOK PC
Test Mode. : Mode 1 (Average)
Temperature : 23.5 deg/C
Humidity : 62 %RH
Display Pattern: H Pattern

Frequency	Cable	Antenna	Reading Level	Emission Level	Limits
(MHz)	Loss (dB)	Factor (dB)	Vertical (dBuV/m)	Vertical (dBuV/m)	(uV/m)
1018.750	5.76	22.60	24.50	17.19	7.24
1102.900	6.02	21.41	23.90	15.79	6.16
*1217.130	6.38	22.26	26.40	19.68	9.64
					500

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
-Amp Factor (35.67, 35.54, 35.35)
4. Deviations from the specifications: None.

-Amp Factor (35.67, 35.54, 35.35)

4. Deviations from the specifications: None.

6. EMI Reduction Method During Compliance Testing

1. Change R15 to TDK bead (ACB1608H-120).
2. Added a resistance of 22Ω between C73 and ground.
3. Used a ferrite core on the Telephone Line. (*provided with EUT*)