



FCC CFR47 PART 15 DIGITAL DEVICE

TEST REPORT

FOR

KEYBOARD

MODEL: HY86D

FCC ID: PA7K086A

REPORT NUMBER: 00C0461-1

ISSUE DATE: SEPTEMBER 13, 2000

Prepared for

**ZHUHAI HENGYU NEW TECHNOLOGY CO., LTD.
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Prepared by

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d.b.a.

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LAB CODE:200065-0

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME: ZHUHAI HENGYU NEW TECHNOLOGY CO.,
LTD.
8F, XINHAI BLDG., YUANLIN ROAD, JIDA
ZHUHAI, GUANGDONG 519000 PRC



CONTACT PERSON: ZHU TONGWEN/CHIEF ENGINEER



TELEPHONE NO: 756-333-6998

MODEL NO/NAME: HY86D

SERIAL NO: N/A

DATE TESTED: SEPTEMBER 13, 2000

TYPE OF EQUIPMENT:	INFORMATION TECHNOLOGY EQUIPMENT (ITE)
MEASUREMENT DISTANCE:	() 3 METER (X) 10 METER
TECHNICAL LIMIT:	CLASS B
FCC RULES:	PART 15
MEASUREMENT PROCEDURE	ANSI C63.4:92 / EN55022: 1996
EQUIPMENT AUTHORIZATION PROCEDURE	CERTIFICATION
MODIFICATIONS MADE ON EUT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DEVIATIONS FROM MEASUREMENT PROCEDURE	<input type="checkbox"/> YES (refer to section 20 for comments) <input checked="" type="checkbox"/> NO
RADIATED EMISSION TEST RESULT	-7.59dB @ 47.73MHz/VERTICAL
CONDUCTED EMISSION TEST RESULT	-1.09dB @ 1.97MHz/L2

The above equipment was tested by Compliance Certification Services for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning** : This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification will constitute fraud and shall nullify the document.

Released For CCS By:

Acknowledged By:

RUSS LOWELL / QA MANAGER
COMPLIANCE CERTIFICATION SERVICES

XIANGYOU HAO
ZHUHAI HENGYU NEW TECHNOLOGY
CO., LTD.

2. PRODUCT DESCRIPTION

CHASSIS TYPE	PLASTIC
LIST OF EACH OSC. OR XTAL. FREQ. (FREQ.>=1 MHz)	4MHz
POWER REQUIREMENTS	5Vdc FROM HOST PC
NO. OF EXTERNAL I/O CONNECTORS	1

3. TESTED SYSTEM DETAILS

The Model names for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are as follows:

External Peripheral Devices

Device Type	Manufacturer	Model Number	Serial No.	FCC ID / DoC
PC	POWER SPEC	6830	6830-0700-00161	DoC
MONITOR	SAMSUNG	CSF9839	01354	A3LCSF983
MOUSE	MICROSOFT	2.0A	02097270	C3KSMP1
PRINTER	HP	2225C	2930S52614	DSI6XU2225
MODEM	HAYES	SMARTMODEM	A45200153875	BFJ9D9-13782-DM-E

4. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5. ACCREDITATION AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code:200065-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are currently registered with the Federal Communications Commission (Reference no: 31040/SIT (1300B3) and 31040/SIT(1300F2))

6. MEASUREMENT INSTRUMENTATION

Radiated emissions were measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide, liner horn. EMI receivers were used for line conducted readings, spectrum analyzers with pre-selectors and quasi-peak detectors were used to perform radiated measurements. Receiving equipment (i.e., receiver, analyzer, quasi-peak adapter, pre-selector) and LISNs conform to CISPR specification for "Radio Interference Measuring Apparatus and Measurement

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

7. MEASURING INSTRUMENT CALIBRATION

The measuring equipment which was utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

8. UNITS OF MEASUREMENT

Measurements of radiated interference were reported in terms of dB(uV/m) at a specified distance. The indicated readings on the spectrum analyzer were converted to dB(uV/m) by use of appropriate conversion factors. Measurements of conducted interference are reported in terms of dB(uV).

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

$$FS = RA + AF + CF - AG$$

Where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

For example, assume a receiver reading of 52.5 dBuV is obtained. The Antenna Factor of 7.4dB/m and a Cable Factor of 1.1dB is added. The Amplifier Gain of 29 dB is subtracted, giving a field strength of 32 dBuV/m. The 32 dBuV/m value was mathematically converted to its corresponding level in uV/m.

$$FS = 52.5 + 7.4 + 1.1 - 29 = 32 \text{ dBuV/m}$$

$$\text{Level in uV/m} = \text{Common Antilogarithm} [(32 \text{ dBuV/m})/20] = 39.8 \text{ uV/m}$$

9. ANTENNAS

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 10 meters from the leading edge of the turntable.

10. CLASSIFICATION OF DIGITAL DEVICE

Class A includes digital devices that are marketed for use in commercial, industrial or business environments, excluding devices which are marketed for use by the general public or are intended to be used in the home.

Class B includes digital devices that are marketed for use in residential environments, notwithstanding use in commercial, business and industrial environments.

Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as Class B 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.

11. RADIATED EMISSION LIMITS

FCC PART 15 CLASS A

MEASURING DISTANCE OF 10 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	90	39.1
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

FCC PART 15 CLASS B

MEASURING DISTANCE OF 3 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

**FCC RADIATED EMISSION ALTERNATIVE METHOD
(CISPR 22/EN55022)**

Limits for radiated disturbance of Class A ITE at
measuring distance of 10 m

Frequency range MHz	Quasi-peak limits dB(uV/m)
30 to 230	40
230 to 1000	47
NOTES 1. The lower limit shall apply at the transition frequency. 2. Additional provisions may be required for cases where interference occurs.	

Limits for radiated disturbance of Class B ITE at
measuring distance of 10 m

Frequency range MHz	Quasi-peak limits dB(uV/m)
30 to 230	30
230 to 1000	37
NOTES 1. The lower limit shall apply at the transition frequency. 2. Additional provisions may be required for cases where interference occurs.	

12. CONDUCTED EMISSION LIMITS

FCC CLASS A

FREQUENCY RANGE	FIELD STRENGTH (Microvolts)	FIELD STRENGTH (dBuV)/QP
450kHz-1.705MHz	1000	60
1.705MHz - 30MHz	3000	69.54

FCC CLASS B

FREQUENCY RANGE	FIELD STRENGTH (Microvolts)	FIELD STRENGTH (dBuV)/QP
450kHz-30MHz	250	48

**FCC CONDUCTED EMISSION ALTERNATIVE METHOD
(CISPR 22/EN55022)**

Limits for conducted disturbance at the mains ports of
Class A ITE

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	79	66
0.5 to 30	73	60
Note- The lower limit shall apply at the transition frequency.		

Limits of Conducted disturbance at the mains ports
of Class B ITE

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

13. CONDUCTED EMISSION TEST PROCEDURE

The EUT was setup and located so that the distance between the boundary of the EUT and the closest surface to the LISN was 0.8m or more.

EUT test configuration was according to Section 7 of ANSI C63.4/1992.

Conducted disturbance was measured between the phase lead and the ground, and between the neutral lead and the ground. The frequency 0.450 - 30 MHz (or 0.150 - 30 MHz in case of CISPR 22/EN55022 method) was investigated.

The EMI receiver was set to PEAK detector setting, and swept continuously over the frequency range to be investigated. The resolution bandwidth was set to 9kHz minimum. The EMI receiver input cable was connected to LINE 1 RF measurement connection on the LISN. A 50ohm terminator was connected to the unused RF port on the LISN. For each mode of EUT operation, emissions readings were maximized by manipulating cable and wire positions. The configuration for each EUT power cord which produced emissions closest to the limit was recorded. The same procedure was repeated for LINE 2 of each EUT power cord.

14. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment were placed on a wooden table 80 cm above the ground screen. The antenna to EUT distance was either 3 meters (FCC Class B method or 10 meters CISPR22/EN55022 method or FCC Class A method). During the test, the table was rotated 360 degrees to maximize emissions and the antenna was positioned from 1 to 4 meters above the ground screen to further maximize emissions. Measurements were made with the antenna polarized in both the vertical and the horizontal positions.

The EUT test configuration was according to Section 8 of ANSI C63.4/1992.

The following procedure was used to make the measurements: The frequency range of interest was monitored at a fixed antenna height and EUT azimuth. The Frequency span was set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. The EUT was rotated through 360 degrees to maximize emissions received. During the rotation if emission increased by more than 1 dB, or if another emission appeared that was greater by 1 dB, the EUT was returned to the azimuth where the maximum occurred, and additional cable manipulation was performed to further maximize received emissions.

The antenna was moved up and down to further maximize the suspected highest amplitude signal. If the emission increased by 1 dB or more, or if another emission appeared that was greater by 1dB or more, the antenna was returned to the height where maximum signal was observed, and, cables were manipulated to produce highest emissions, noting frequency and amplitude.

15. AMBIENT CONDITIONS

The ambient conditions at the time of final tests were as follows:

	Radiated Emission	Conducted Emission
Temperature	25 ° C	25° C
Humidity	65%	65%

16. SYSTEM TEST CONFIGURATION

The equipment under test was configured and operated in a manner which tended to maximize its emission characteristics in a typical application. Power and signal distribution, ground, interconnecting cabling and physical placement of equipment simulated the typical application and usage insofar as practicable.

SOFTWARE USED DURING THE TESTS	
File Name	MS WORKS
Program Sequence	DISPLAY KEYBOARDS AS LETTERS IN WORD PROCESSING DOCUMENT.

17. EQUIPMENT MODIFICATIONS

To achieve compliance to CLASS B levels, the following change(s) were made during compliance testing:

No changes were required in order to achieve compliance to CLASS B levels.

18. EUT SETUP PHOTOS



Radiated Emission Setup Photos (Worst Emission Position)



Conducted Emission Setup Photos (Worst Emission Position)

19. TEST EQUIPMENT LIST

(Greyed out section not used)

Equipment	Manufacturer	Model No.	Serial No.	Site	Cal Date	Due Date
Spectrum analyzer	HP	8566B	2140A01296	A	12/15/99	12/15/00
Spectrum Display	HP	85662A	2152A03066	A	12/15/99	12/15/00
Quasi-peak Detector	HP	85650A	2811A01335	A	12/17/99	12/17/00
RF Preselector (20Hz-2GHz)	H.P.	85685A	2817A00756	A	11/18/99	11/18/00
Antenna	Chase	CBL6112	2049	A	11/23/99	11/23/00
Pre-Amp	H.P. (P1)	8447D	2944A06833	A	10/25/99	10/25/00
Spectrum Analyzer	H.P.	8568B	2841A04227	B	11/18/99	11/18/00
Spectrum Display	H.P.	85662A	2810A15728	B	12/02/99	12/02/00
Quasi-peak Detector	H.P.	85650A	2521A01038	B	02/02/00	02/02/01
Pre-Amp	H.P.(P8)	8447D	2944A06589	B	09/19/00	09/19/01
Antenna	Schaffner-Chase	CBL6112B	2586	B	11/23/99	11/23/00
Spectrum Analyzer	H.P.	8566B	3014A06685	C	06/16/00	06/16/01
Spectrum Display	H.P.	85662A	3026A19146	C	06/16/00	06/16/01
Quasi-peak Detector	H.P.	85650A	3145A01654	C	11/18/99	11/18/00
Pre-Amp	H.P.(P5)	8447D	2944A06550	C	09/19/00	09/19/01
Antenna	Eaton	94455-1	1214	C	08/10/00	08/10/01
Antenna	EMCO	3146	9107-3163	C	08/10/00	08/10/01
Spectrum Analyzer	H.P.	8568B	2732A03661	F	07/14/00	01/14/01
Spectrum Display	H.P.	85662A	2816A16696	F	07/14/00	01/14/01
Quasi-peak Detector	H.P.	85650A	2811A01155	F	12/15/99	12/15/00
Pre-Amp	H.P.(P2)	8447D	2944A06265	F	09/19/00	09/19/01
Antenna	Eaton	94455-1	1197	F	08/30/00	08/30/01
Antenna	Emco	3146	2120	F	09/05/00	09/05/01
EMI Receiver	Rohde Schwarz	ESHS20	827129/006	Cond	02/28/00	02/28/01
LISN	Fischer	FCC-LISN - 50/250-25-2	114	Cond	07/05/00	07/05/01

20. TEST RESULT SUMMARY

Preliminary Radiated Emission Tests were performed at the 10 meter open area test site.

CCS test procedure no: CCSUE2001B and the procedure listed in ANSI C63.4(1992) section 8.3.1.1 were used. The following preliminary tests were conducted to determine the worst mode of operation and configuration.

Preliminary Radiated Emission Test			
Frequency Range Investigated		30 MHz TO 1000 MHz	
Mode of operation	Date	Data Report No.	Worst Mode
TYPING H'S	09/12/00	000912F1	<input checked="" type="checkbox"/>

Final Radiated Emission Test was conducted by operating the worst mode as indicated above.

OATS No: F/10M		Data Report No. 000912F1		Date 09/12/00		Tested By: PETE KREBILL	
Six Highest Radiated Emission Readings							
Frequency Range Investigated				30 MHz TO 1000 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type (P/Q/A)	Polar (H/V)
47.73	30.7	-18.25	12.45	30	-17.55	P	H
63.65	36.7	-22.65	14.05	30	-15.95	P	H
79.6	33.6	21.44	12.16	30	-17.84	P	H
55.68	32.3	-20.66	11.64	30	-18.36	P	H
47.73	41.0	-18.59	22.41	30	-7.59	P	V
63.64	36.4	-22.6	13.8	30	-16.2	P	V

C.F.(Correction Factor) = Antenna Factor + Cable Loss - Amplifier Gain

Corrected Reading = Metering Reading + C.F.

Margin = Corrected Reading - Limits

P = Peak Reading

H = Horizontal Polarization/Antenna

Q = Quasi-peak

V = Vertical Polarization/Antenna

A = Average Reading

Comments: N/A

Preliminary Conducted Emission Tests were performed according to CCS test procedure no: CCSUE2002B and ANSI C63.4/1992 section 7.2.3. The following preliminary tests were conducted to determine the worst mode of operation.

Preliminary Conducted Emission Test			
Frequency Range Investigated		150 kHz TO 30 MHz	
Mode of operation	Date	Data Report/Plot No.	Worst Mode
TYPING H'S	09/13	00913LC	<input checked="" type="checkbox"/>

Final Conducted Emission Test was conducted by operating the worst mode as indicated above.

Conducted Room		Plot No. 000913LC		Date 09/13/00		Tested By: PETE KREBILL	
Six Highest Conducted Emission Readings							
Frequency Range Investigated				150 kHz TO 30 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.585	39.2	0	39.2	46	-6.8	P	L1
0.683	38.78	0	38.78	46	-7.22	P	L1
1.56	38.45	0	38.45	46	-7.55	P	L1
1.47	44.55	0	44.55	46	-1.45	P	L2
1.97	44.91	0	44.91	46	-1.09	P	L2
1.53	43.3	0	43.3	46	-2.70	P	L2

C.F.(Correction Factor) = Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin = Corrected Reading - Limits

P = Peak Reading

L1 = Hot

Q = Quasi-peak

L2 = Neutral

A = Average Reading

Comments: N/A

APPENDICES

EXTERNAL I/O CABLE CONSTRUCTION DESCRIPTION

CONFIGURATION BLOCK DIAGRAM

CONDUCTED EMISSION PLOT

RADIATED EMISSION DATA

EUT PHOTOGRAPHS

External I/O Cable Construction Description

CABLE NO: 1	
I/O Port: VGA	Number of I/O ports of this type: 1
Number of Conductors: 14	Connector Type: DB15
Capture Type: SCREW-IN	Type of Cable used: SHIELDED
Cable Connector Type: MOLDING HOOD	Cable Length: 1.5 M
Bundled During Tests: YES	Data Traffic Generated: YES
Remark: 1 TORROID ON EACH END.	

CABLE NO: 2, 3	
I/O Port: KEYBORAD/MOUSE	Number of I/O ports of this type:
Number of Conductors: 6	Connector Type:
Capture Type: SNAP-IN	Type of Cable used:
Cable Connector Type: MOLDING HOOD	Cable Length:
Bundled During Tests: NO	Data Traffic Generated:
Remark: KEYBOARD CABLE NO. 2 HS 1 FERRIOD ON PC SIDE.	

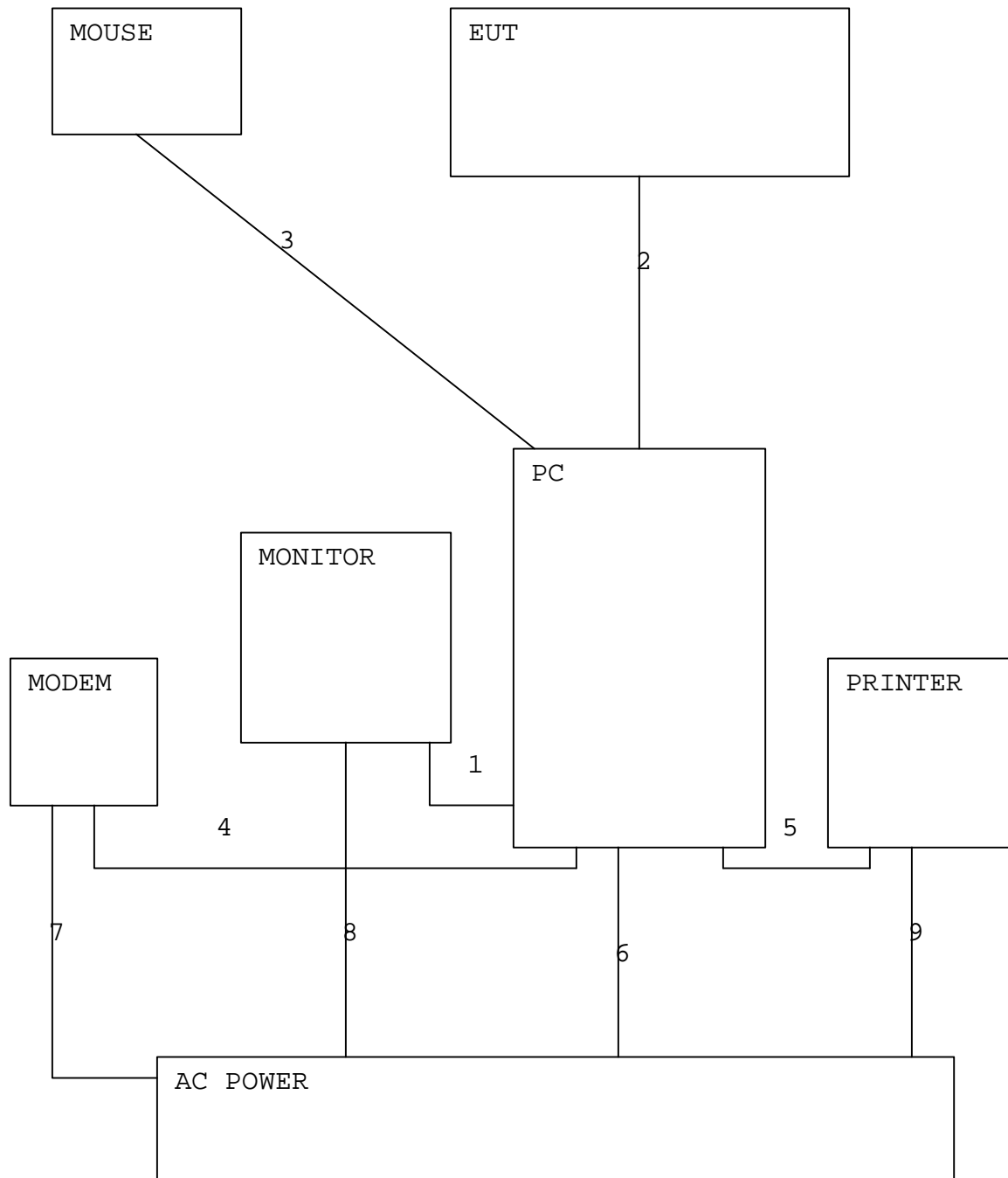
CABLE NO: 4	
I/O Port: RS232	Number of I/O ports of this type: 1
Number of Conductors: 9	Connector Type: DB9
Capture Type: SCREW-IN	Type of Cable used: SHIELDED
Cable Connector Type: METAL	Cable Length: 1 M
Bundled During Tests: YES	Data Traffic Generated: YES
Remark: N/A	

CABLE NO: 5	
I/O Port: PARALLEL	Number of I/O ports of this type: 1
Number of Conductors: 25	Connector Type: DB25
Capture Type: SCREW-IN	Type of Cable used: SHIELDED
Cable Connector Type: METAL	Cable Length: 2 M
Bundled During Tests: YES	Data Traffic Generated: YES
Remark: N/A	

CABLE NO: 6	
I/O Port: AC	Number of I/O ports of this type: 1
Number of Conductors: 3	Connector Type: USA 110V TYPE
Capture Type: PUSH-IN	Type of Cable used: UNSHIELDED
Cable Connector Type: MODELING	Cable Length: 1.6 M
Bundled During Tests: YES FOR LC; NO FOR RADIATED.	Data Traffic Generated: NO
Remark: N/A	

CABLE NO: 7, 8, 9	
I/O Port: AC	Number of I/O ports of this type: 1
Number of Conductors: 3	Connector Type: USA 110V TYPE
Capture Type: PUSH-IN	Type of Cable used: UNSHIELDED
Cable Connector Type: MODELING	Cable Length: 1.6 M
Bundled During Tests: NO	Data Traffic Generated: NO
Remark: N/A	

Configuration Block Diagram





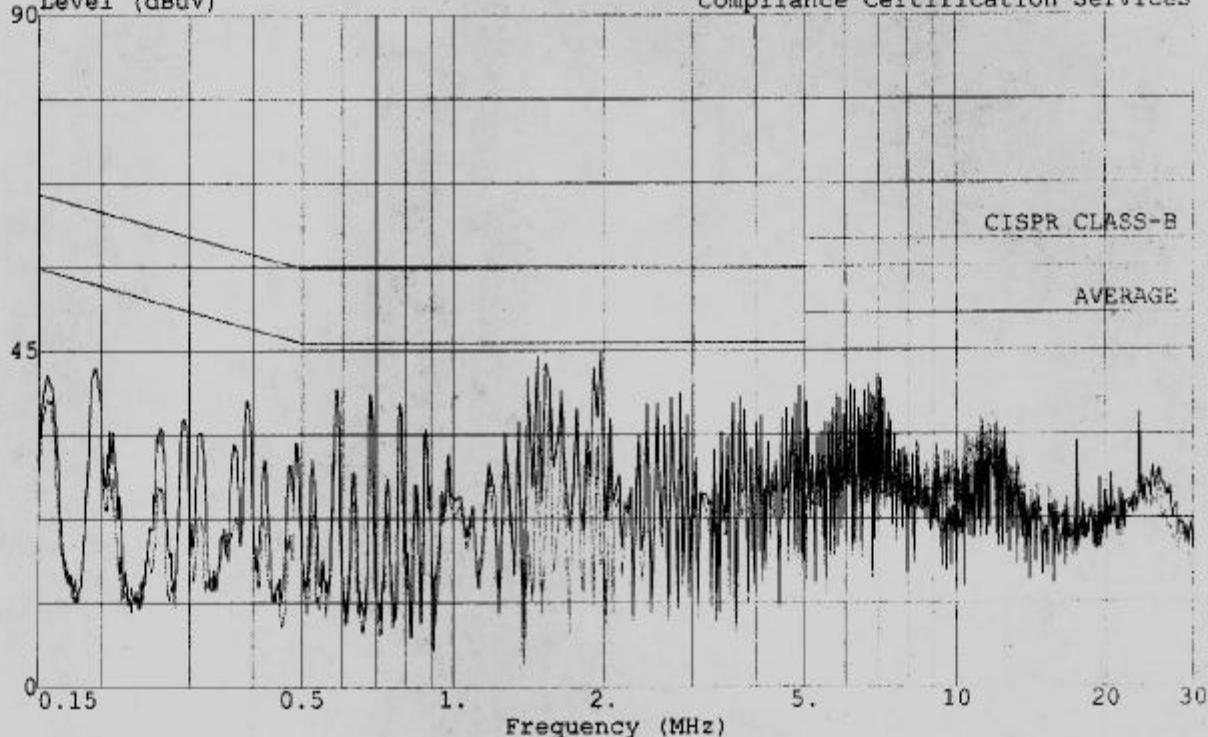
1366 Bordeaux Dr.
Sunnyvale, CA 94089-1005 USA
Tel: (408) 752-8166
Fax: (408) 752-8168

Data#: 7 File#: 00C0461.EMI

Date: 09-13-2000 Time: 10:15:46

Level (dBuV)

Compliance Certification Services



Trace: 3

Ref Trace:

Project No. : 00C0461
Report No. : 000913LC
Test Engr : Pete Krebill
Company : Zhuhai Henyu New Technology Co., Ltd.
EUT Description : Keyboard
Model : HY860
EUT Config. : EUT/PC/Monitor/Keyboard/Mouse/Modem
 : Printer
Type of Test : EN22 B
Mode of Operation: Typing H's
 : PEAK: L1(Green), L2 (Black)
 : 115Vac, 60Hz

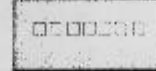
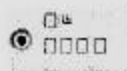
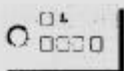
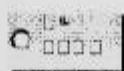
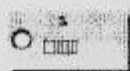


FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

1366 BORDEAUX DRIVE, SUNNYVALE, CA 94089
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Project #: 00C0461
Report #: 000912F1
Date & Time: 09/12/00 10:14 AM
Test Engr: PETE K.

Company: Zhuhai Hengyu New Technology Co., Ltd.
EUT Description: Keyboard HY860
Test Configuration: EUT/PC/Monitor/Mouse/Printer/Modem
Type of Test: EN22 B
Mode of Operation: EMC Test/Typing H's



Freq.	Reading	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	EN_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
47.73	30.70	11.54	1.79	31.58	12.45	30.00	-17.55	10mH	0.00	1.50	P
63.65	36.70	6.88	2.04	31.58	14.05	30.00	-15.95	10mH	270.00	1.50	P
71.60	30.40	6.14	2.17	31.57	7.13	30.00	-22.87	10mH	90.00	1.00	P
79.60	33.60	7.82	2.29	31.55	12.16	30.00	-17.84	10mH	90.00	1.50	P
55.68	32.30	9.01	1.91	31.58	11.64	30.00	-18.36	10mH	270.00	1.50	P
47.73	41.00	11.20	1.79	31.58	22.41	30.00	-7.59	10mV	180.00	2.00	P
63.64	36.40	6.94	2.04	31.58	13.80	30.00	-16.20	10mV	180.00	2.00	P
Total data #: 7											
V.2f											