SPORTON INTERNATIONAL INC.



FCC TEST REPORT

REPORT NO.: F932203

FCC TEST REPORT

for

CISPR PUB.22 CLASS B

EQUIPMENT : USB MODEM HUB

MODEL NO. : PT-3060

FCC ID : H52PT-3060

FILING TYPE : ORIGINAL CERTIFICATION

APPLICANT : PURETEK INDUSTRIAL CO., LTD.

4F, No. 12, LANE 235, PAO-CHIAO RD. HSIN TIEN CITY, TAIPEI, TAIWAN, R.O.C.

- The test result refers exclusively to the test presented test model / sample.
- Without the written authorization of the test lab., the Test Report may not be copied.
- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of the U.S Government.

SPORTON INTERNATIONAL INC.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060 PAGE NUMBER: 1 OF 23

TABLE OF CONTENT

SECTION TITLE	AGE
CERTIFICATE OF COMPLIANCE	
1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST	3
1.1. APPLICANT	4
1.2. MANUFACTURER	4
1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST	4
1.4. FEATURE OF EQUIPMENT UNDER TEST	4
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	5
2.1. TEST MANNER	6
2.2. DESCRIPTION OF TEST SYSTEM	6
2.3. CONNECTION DIAGRAM OF TEST SYSTEM	6
3. TEST SOFTWARE	8
4. GENERAL INFORMATION OF TEST	9
4.1. TEST FACILITY	10
4.2. STANDARD FOR METHODS OF MEASUREMENT	10
4.3 TEST IN COMPLIANCE WITH	10
4.4. FREQUENCY RANGE INVESTIGATED	10
4.5. TEST DISTANCE	10
5. TEST OF CONDUCTED POWERLINE	10
5.1. MAJOR MEASURING INSTRUMENTS	.11
5.2. TEST PROCEDURES	11
5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE	12
5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION	14
5.5. PHOTOGRAPHS OF CONDUCTED POWERLINE TEST CONFIGURATION	15
6. TEST OF RADIATED EMISSION	17
6.1. MAJOR MEASURING INSTRUMENTS	. 1 ?
6.2. TEST PROCEDURES	17 18
6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION	19
6.4. TEST RESULT OF RADIATED EMISSION	20
6.5. PHOTOGRAPHS OF RADIATED EMISSION TEST CONFIGURATION	21
7. ANTENNA FACTOR AND CABLE LOSS	.22
8. LIST OF MEASURING INSTRUMENTS USED	23

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060

PAGE NUMBER: 2 OF 23

SPORTON INTERNATIONAL INC.



FCC TEST REPORT

REPORT NO.: F932203

CERTIFICATE NO.: F932203

CERTIFICATE OF COMPLIANCE

for

CISPR PUB.22 CLASS B

EQUIPMENT : USB MODEM HUB

MODEL NO. : PT-3060

FCC ID : H52PT-3060

APPLICANT : PURETEK INDUSTRIAL CO., LTD.

4F, No. 12, LANE 235, PAO-CHIAO RD., HSIN TIEN CITY, TAIPEI, TAIWAN, R.O.C.

I HEREBY CERTIFY THAT:

The measurement shown in this report were made in accordance with the procedures given in **ANSI C63.4 -1992** and the energy emitted by this equipment was *passed* CISPR PUB.22 both radiated and conducted emissions class B limits. Testing was carried out on **Apr. 19, 1999** at **SPORTON INTERNATIONAL INC. LAB**.

Lenore Chang

President

SPORTON INTERNATIONAL INC.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060

PAGE NUMBER: 3 OF 23

1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST

1.1. APPLICANT

PURETEK INDUSTRIAL Co., LTD.

4F, No. 12, LANE 235, PAO-CHIAO RD., HSIN TIEN CITY, TAIPEI, TAIWAN, R.O.C.

1.2. MANUFACTURER

Same as 1.1.

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT: USB MODEM HUB

MODEL NO. : PT-3060 FCC ID : H52PT-3060

TRADE NAME: PURETEK

MOUSE DATA CABLE: Shielded, 1.5m

TELEPHONE DATA CABLE : Non-shielded, 2.1m USB CABLE (EUT to PC) : Non-shielded, 1.75m

POWER SUPPLY TYPE : Linear

INPUT POWER CORD: N/A

OUTPUT POWER CORD : Non-shielded, 1.75m

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060

PAGE NUMBER: 4 OF 23

1.4. FEATURE OF EQUIPMENT UNDER TEST

Modem Features

- Data Protocols : V.90, V.34bis, V.34, V.32, V.22bis, V.22, V.21, V.23, Bell 212a, Bell 103
- Data Speed : up to 56K
- Data Compression : V.42 LAPM, MNP2, 3, 4
- Fax Protocols: Class 1 Fax: V.17, V.29, v.27 ter, V.21
- General:
 - Standard AT commands
 - V.8 and Automode
 - V.80
 - Virtual DTE

USB HUB Features

- USB Hub Supports Three Downstream Ports and Self-power Configuration
- Integrated USB Compliant Transceivers

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060

PAGE NUMBER: 5 OF 23

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. TEST MANNER

- The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner, which tended to maximize its emission characteristics in a typical application.
- b. The SONY monitor, PS/2 DELL keyboard, PRIMAX PS/2 mouse, HP printer, TRANBON telephonex2 and EUT were connected to the F.I.C. P.C.
- The phone jack and line jack were both connected to the TRANBON telephone by telephone line and three WINIC USB mouses were connected to USB ports of the EUT.
- Frequency range investigated: Conduction 150 KHz to 30 MHz, Radiation 30 MHz to 1000MHz. d.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- P.C. (FIC)

FCC ID

: N/A

Model No.

: P2L97

Serial No.

: SP1005

Data Cable

: Shielded

Power Cord

: Non-shielded

Power Supply Type : Switching

(Remark : This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.)

Support Device 2. --- MONITOR (SONY)

FCC ID

: AK8GDM17SE2T

Model No.

: GDM-17SE2T

Serial No.

: SP1009

Data Cable

Power Supply Type : Switching

: Shielded, 360 degree via metal backshells, 1.75m

Power Cord

: Non-shielded

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060

PAGE NUMBER : 6 OF 23

FCC TEST REPORT

REPORT NO.: F932203

Support Device 3. --- PS/2 KEYBOARD (DELL)

FCC ID

: GYUM90SK

Model No.

: AT101 W

Serial No.

: SP1022

Data Cable

: Shielded, 360 degree via metal backshells, 2.0m

Support Device 4. --- PS/2 MOUSE (PRIMAX)

FCC ID

: EMJMUSJQ

Model No.

: MUS9J

Serial No.

: SP1025

Data Cable

: Shielded, 360 degree via metal backshells,1.75m

Support Device 5. -- USB MOUSE (WINIC)

FCC ID

: F4ZFDM-A50

Model No.

: FDM-A50

Serial No.

: SP1039

Data Cable

: Shielded, 1.5m

Support Device 6. --- PRINTER (HP)

FCC ID

: DSI6XU2225

Model No.

: 2225C

Serial No.

: SP1041

Data Cable

: Shielded, 360 degree via metal backshells, 1.2m

Power Supply Type : Linear, AC Adapter

Power Cord

: Non-shielded

Support Device 7. --- TELEPHONE (TRANBON)

FCC ID

: N/A

Model No.

: TE-302

Serial No.

: SP1066

Data Cable

: Non-shielded, 2.1m

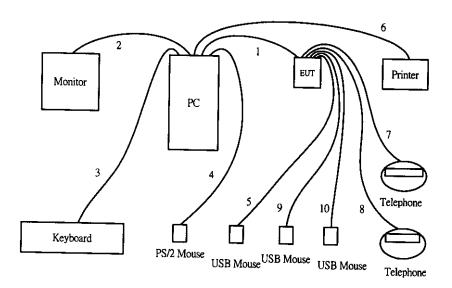
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060

PAGE NUMBER: 7 OF 23

2.3. CONNECTION DIAGRAM OF TEST SYSTEM



- The I/O cable is connected from the EUT to the support device 1. 1.
- The I/O cable is connected from the support device 1 to the support device 2. 2.
- The I/O cable is connected from the support device 1 to the support device 3. 3.
- The I/O cable is connected from the support device 1 to the support device 4. 4.
- The I/O cable is connected from the EUT to the support device 5. 5.
- The I/O cable is connected from the support device 1 to the support device 6. 6.
- The I/O cable is connected from the EUT to the support device 7. 7.
- The I/O cable is connected from the EUT to the support device 7. 8.
- The I/O cable is connected from the EUT to the support device 5.
- 10. The I/O cable is connected from the EUT to the support device 5.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

3. TEST SOFTWARE

An executive program, EMITEST.EXE under WIN98, which generates a complete line of continuously repeating " H " pattern was used as the test software.

The program was executed as follows:

- Turn on the power of all equipment.
- The PC reads the test program from the floppy disk drive and runs it. b.
- The PC sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.
- The PC sends " H " messages to the printer, then the printer prints them on the paper.
- The PC sends " H " messages to the modem.
- The PC sends "H" messages to the internal Hard Disk, and the Hard Disk reads and writes the f. message.
- Repeat the steps from b to f. g.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060

PAGE NUMBER: 9 OF 23

4. GENERAL INFORMATION OF TEST

4.1. TEST FACILITY

This test was carried out by SPORTON INTERNATIONAL INC. in an openarea test site.

Openarea Test Site Location : No. 3, Lane 238, Kang Lo Street, Nei Hwu District,

Taipei 11424, Taiwan, R.O.C.

TEL: 886-2-2631-4739, FAX: 886-2-2631-9740

4.2. STANDARD FOR METHODS OF MEASUREMENT

ANSI C63.4-1992

4.3 .TEST IN COMPLIANCE WITH

CISPR PUB.22 CLASS B

4.4. FREQUENCY RANGE INVESTIGATED

a. Conduction : from 150 KHz to 30 MHz

b. Radiation : from 30 MHz to 1000 MHz.

4.5. TEST DISTANCE

The test distance of radiated emission from antenna to EUT is 10M.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060

PAGE NUMBER: 10 OF 23

5. TEST OF CONDUCTED POWERLINE

Conducted Emissions were measured from 150 KHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in Figure 5-3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

5.1. MAJOR MEASURING INSTRUMENTS

• Test Receiver (HP 8591EM)

Attenuation 0 dB

Start Frequency 0.15 MHz

Stop Frequency 30 MHz
Step MHz 0.007 MHz

IF Bandwidth 9 KHz

SPORTON International Inc.

TEL: 886-2-2696-2468 PAGE NUMBER: 11 OF 23
FAX: 886-2-2696-2255 ISSUED DATE: Apr. 28, 1999

FCC ID

: H52PT-3060

FCC TEST REPORT

REPORT NO.: F932203

5.2. TEST PROCEDURES

The EUT was placed 0.4 meter from the conducting wall of the shielding room and was kept at least

80 centimeters from any other grounded conducting surface.

Connect EUT to the power mains through a line impedance stabilization network (LISN). b.

All the support units are connect to the other LISN. C.

The LISN provides 50 ohm coupling impedance for the measuring instrument. d.

The FCC states that a 50 ohm , 50 microhenry LISN should be used. e.

Both sides of AC line were checked for maximum conducted interference. f.

The frequency range from 150 KHz to 30 MHz was searched. g.

Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold

Mode.

If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will

be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB

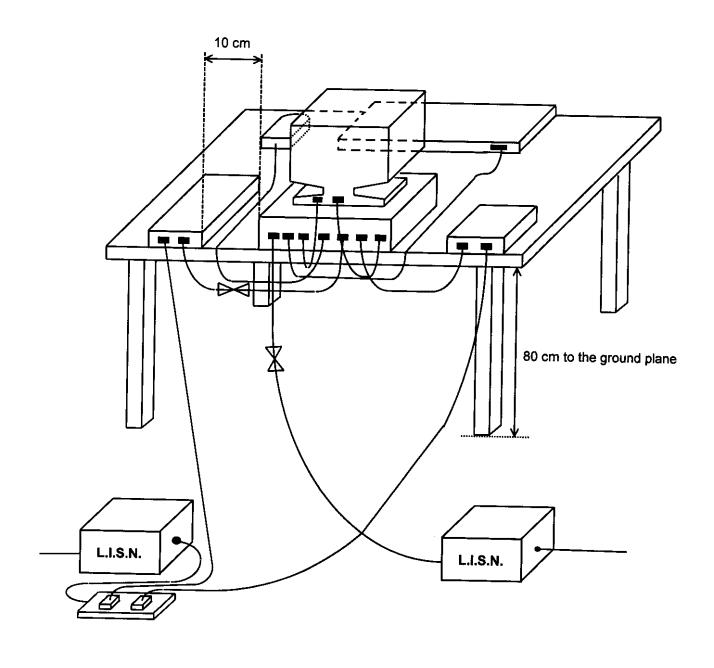
margin will be retested on by one using the quasi-peak method and reported.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060

PAGE NUMBER: 12 OF 23

5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE



TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060

PAGE NUMBER: 13 OF 23 ISSUED DATE : Apr. 28, 1999

5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

All emissions not reported here are more than 10 dB below the prescribed limit.

Frequency Range of Test : from 0.15 MHz to 30 MHz

Temperature : 25℃

Relative Humidity: 48% RH Test Date: Apr. 19, 1999

The Conducted Emission test was passed at Line 24.00 MHz / 35.60 dBuV.

· · · · · · · · · · · · · · · · · · ·				* · · · · ·							
Frequency	Line	Meter Reading				Margin					
	or	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.
(MHz)	Neutral	(dBuV)	(dBuV)	(uV)	(uV)	(dBuV)	(dBuV)	(uV)	(uV)	(dB)	(dB)
24.00	Line	35.60	31.20	60.26	36.31	60.00	50.00	1000.00	316.23	-24.40	-18.80
13.50	Line	19.40	2.50	9.33	1.33	60.00	50.00	1000.00	316.23	-40.60	-47.50
7.91	Line	23.60	10.90	15.14	3.51	60.00	50.00	1000.00	316.23	-36.40	-39.10
24.01	Neutrai	31.70	27.80	38.46	24.55	60.00	50.00	1000.00	316.23	-28.30	-22.20
13.49	Neutral	19.20	2.80	9.12	1.38	60.00	50.00	1000.00	316.23	-40.80	-47.20
7.72	Neutral	14.50	7.90	5.31	2.48	60.00	50.00	1000.00	316.23	-4 5.50	-42 .10

Test Engineer: Louis L

Louis Lin

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060 PAGE NUMBER: 14 OF 23 ISSUED DATE : Apr. 28, 1999

REPORT NO.: F932203

6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 1000 MHz were measured with a bandwidth of 120 KHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in Figure 6-3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1. MAJOR MEASURING INSTRUMENTS

 Amplifier (HP 8447D)

Attenuation 0 dB RF Gain 25 dB

Signal Input 0.1 MHz to 1.3 GHz

 Spectrum Analyzer (ADVANTEST R3261C)

Attenuation 0 dB Start Frequency 30 MHz Stop Frequency 1000 MHz Resolution Bandwidth 1 MHz Video Bandwidth 1 MHz

Signal Input 9 KHz to 2.6 GHz

 Spectrum Analyzer (ADVANTEST R3261C)

Resolution Bandwidth 120 KHz

Frequency Band 30 MHz to 1 GHz

Quasi-Peak Detector ON for Quasi-Peak Mode

OFF for Peak Mode

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID

: H52PT-3060

PAGE NUMBER: 17 OF 23

FCC TEST REPORT

6.2. TEST PROCEDURES

The EUT was placed on a rotatable table top 0.8 meter above ground.

The EUT was set 10 meters from the interference receiving antenna which was mounted on the top of b.

a variable height antenna tower.

The table was rotated 360 degrees to determine the position of the highest radiation. C.

The antenna is a half wave dipole and its height is varied between one meter and four meters above

ground to find the maximum value of the field strength both horizontal polarization and vertical

polarization of the antenna are set to make the measurement.

For each suspected emission the EUT was arranged to its worst case and then tune the antenna

tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold f.

Mode.

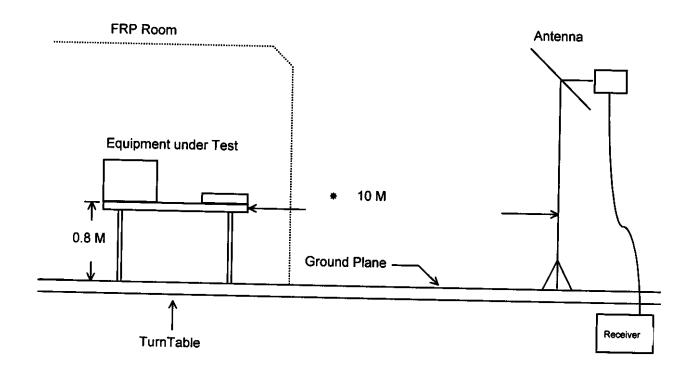
If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will

be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB

margin will be repeated one by one using the quasi-peak method and reported.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 **REPORT NO.: F932203**

6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION



TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060 PAGE NUMBER : 19 OF 23 ISSUED DATE : Apr 28 1999

6.4. TEST RESULT OF RADIATED EMISSION

Equipment meets the technical specifications of CISPR PUB.22

Frequency Range of Test : from 30 MHz to 1000 MHz

Test Distance: 10 M Temperature : 28℃

Relative Humidity: 50 % RH Test Date : Apr. 19, 1999

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading = Antenna Factor + Cable Loss + Reading = Emission

The Radiated Emission test was passed at minimum margin Horizontal 198.98 MHz / 26.27 dBuV

Antenna Height <u>4.0 Meter</u>, Turntable Degree <u>190°</u>

	Antenna	Cable	Reading	Limits		Emission	l evel	Margin
Polarity	Factor	Loss	_				LCVCI	Margin
	(dB/m)	(dB)	(dBuV)	_(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)	(dB)
Н	9.37	1.62	15.28	30.00	32	26.27		-3.73
٧	8.39	0.97	16.14	30.00	32	25.50		-4 .50
٧	9.59	1.52	12.59	30.00	32	_		-6.30
٧	9.51	1.76	14.30	30.00				
V	9.35	1.60	13.28					-4.43
V	10.31	1.69						-5.77 -4.30
	H V V V	Polarity Factor (dB/m) H 9.37 V 8.39 V 9.59 V 9.51 V 9.35	Polarity Factor (dB/m) Loss (dB) H 9.37 1.62 V 8.39 0.97 V 9.59 1.52 V 9.51 1.76 V 9.35 1.60	Polarity Factor Loss (dB/m) (dB) (dBuV) H 9.37 1.62 15.28 V 8.39 0.97 16.14 V 9.59 1.52 12.59 V 9.51 1.76 14.30 V 9.35 1.60 13.28	Polarity Factor Loss (dB/m) (dB) (dBuV) (dBuV/m) H 9.37 1.62 15.28 30.00 V 8.39 0.97 16.14 30.00 V 9.59 1.52 12.59 30.00 V 9.51 1.76 14.30 30.00 V 9.35 1.60 13.28 30.00	Polarity Factor Loss (dB/m) (dB) (dBuV) (dBuV/m) (uV/m) H 9.37 1.62 15.28 30.00 32 V 8.39 0.97 16.14 30.00 32 V 9.59 1.52 12.59 30.00 32 V 9.51 1.76 14.30 30.00 32 V 9.35 1.60 13.28 30.00 32	Polarity Factor Loss (dB/m) (dB) (dBuV) (dBuV/m) (uV/m) (dBuV/m) H 9.37 1.62 15.28 30.00 32 26.27 V 8.39 0.97 16.14 30.00 32 25.50 V 9.59 1.52 12.59 30.00 32 23.70 V 9.51 1.76 14.30 30.00 32 25.57 V 9.35 1.60 13.28 30.00 32 24.23	Polarity Factor Loss (dB/m) (dB) (dBuV) (dBuV/m) (uV/m) (dBuV/m) (uV/m) H 9.37 1.62 15.28 30.00 32 26.27 20.58 V 8.39 0.97 16.14 30.00 32 25.50 18.84 V 9.59 1.52 12.59 30.00 32 23.70 15.31 V 9.51 1.76 14.30 30.00 32 25.57 18.99 V 9.35 1.60 13.28 30.00 32 24.23 16.27

Test Engineer: Louis L Louis Lin

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060 PAGE NUMBER: 20 OF 23 ISSUED DATE . Apr 20

7. ANTENNA FACTOR AND CABLE LOSS

[
Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30	17.2	0.8
35	16.2	0.9
40	13.0	0.9
45	10.5	0.9
50	7.0	1.0
55	6.2	1.1
60	5.3	1.1
65	5.2	1.1
70	5.2	1.1
75	5.9	1.1
80	6.8	1.2
85	7.9	1.2
90	9.0	1.2
95	9.8	1.3
100	10.6	1.4
110	11.5	1.3
120	12.3	1.3
130	10.9	1.3
140	10.5	1.2
150	10.5	1.5
160	9.6	1.6
170	9.6	1.5
180	9.7	2.0
190	9.5	1.8
200	9.4	1.6
220	10.7	1.7
240	12.0	1.8
260	12.8	1.9
280	13.0	2.0
300	13.3	2.0
320	13.8	2.1
340	14.3	2.2
360	14.7	2.4
380	15.1	2.5
400	15.5	2.6
450	16.7	2.8
500	17.8	2.9
550	19.2	2.9
600	19.0	2.9
650	18.7	3.3
700	18.5	3.7
750	18.5	3.6
800	16.8	3.4
850	17.0	3.7
900	19.0	4.0
950	19.9	4.1
1000	20.4	4.2
		7.6

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060 PAGE NUMBER : 22 OF 23

8. LIST OF MEASURING INSTRUMENTS USED

Instrument	Manufacture	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum	HP	8591EM	3801H01325	9 KHz – 1.8 GHz	Jun. 29, 1998	Conduction
LISN (for EUT)	KYORITSU	KNW-407	8-1010-15	50 ohm / 50 μH	Nov. 17, 1998	Conduction
LISN (for support device)	EMCO	3810/2	9703-1838	50 ohm / 50 μH	Aug. 27, 1998	Conduction
EMI Filter	CORCOM	MRI-2030	N/A	480VAC / 30A	N/A	Conduction
Amplifier (Site 1)	HP	8447D	2944A07523	0.1 MHz -1.3 GHz	Jan. 20, 1999	Radiation
Spectrum Analyzer (site 1)	ADVANTEST	R3261C	81720145	9KHz – 2.6GHz	Mar. 08, 1999	Radiation
Bilog Antenna (site 1)	CHASE	CBL6112A	2302	30MHz - 2GHz	Jan. 29, 1999	Radiation
Half-wave dipole antenna (site 1)	EMCO	3121C	8912-496	20MHz - 1GHz	Aug. 08, 1998	Radiation
Turn Table	EMCO	1060-1.211	9507-1805	0 ~ 360 degree	N/A	Radiation
Antenna Mast	EMCO	2075	9806-2160	1 m - 4 m	N/A	Radiation

^{*} The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H52PT-3060

PAGE NUMBER : 23 OF 23



CERTIFICATE OF COMPLIANCE

Authorized under Declaration of Conformity according to

47 CFR, Part 2 and Part 15 of the FCC Rules

● Equipment Under Test : PERSONAL COMPUTER

Model No.: P2L97

Applicant: FIRST INTERNATIONAL COMPUTER INC.

6F, Formosa Plastics Rear Building 201, Tung Hwa N. Rd., Taipei, Taiwan, R.O.C.





CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN ACCORDANCE WITH THE PROCEDURES GIVEN IN ANSI C63.4-1992 AND THE ENERGY EMITTED BY THIS EQUIPMENT WAS PASSED BOTH RADIATED AND CONDUCTED EMISSIONS CLASS B LIMITS. THE TESTING WAS COMPLETED ON SEP. 02, 1997 AT SPORTON INTERNATIONAL INC. LAB IN NEI HWU.

GENERAL MANAGER