



**FCC CFR47 PART 15 DIGITAL DEVICE**

**TEST REPORT**

**FOR**

**ALLEGRO PCI SOUND CARD**

**MODEL: A571-T2**

**FCC ID: LWHA571-T2**

**REPORT NUMBER: 00E8199**

**ISSUE DATE: MARCH 1, 2000**

*Prepared for*

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*Prepared by*

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**FCC, VCCI, CISPR, CE  
UL, CSA, TÜV, VDE**

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1. VERIFICATION OF COMPLIANCE



COMPANY NAME: LABWAY CORPORATION  
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TAIPEI HSIEN, TAIWAN, R. O. C.

CONTACT PERSON:CHRIS FONG / R&D MANAGER

TELEPHONE NO: (02) 8226-5788

MODEL NO/NAME: A571-T2

SERIAL NO: N/A

DATE TESTED: FEBRUARY 23 & FEBRUARY 24, 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
EQUIPMENT AUTHORIZATION PROCEDURE	CERTIFICATION
MODIFICATION MADE ON EUT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DEVIATIONS FROM MEASUREMENT PROCEDURE	<input type="checkbox"/> YES (refer to section 21 for comments) <input checked="" type="checkbox"/> NO
RADIATED EMISSION TEST RESULT	-1.36 dB @ 159.745 MHz/VERTICAL
CONDUCTED EMISSION TEST RESULT	-6.13 dB @ 0.724 MHz/L1

The above equipment was tested by Compliance Engineering Services, Inc. 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.

Approved By

Acknowledged By

Rick Yeo  
RICK YEO / EMC MANAGER  
COMPLIANCE ENGINEERING SERVICES

CHRIS FONG  
CHRIS FONG / R&D MANAGER  
LABWAY CORPORATION

## 2. PRODUCT DESCRIPTION

LIST OF EACH OSC. OR XTAL. FREQ. (FREQ.>=1 MHz)	Y1=49.15MHz
CHIPSET BRAND AND PART NO.	ES1989S J509, TTUB3936V
NUMBER OF PCB LAYERS	2 LAYERS
POWER REQUIREMENTS	DC 5/12V
NO. OF EXTERNAL I/O CONNECTORS	4

## 3. TESTED SYSTEM DETAILS

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

### External Peripheral Devices

Device Type	Manufacturer	Model Number	Serial No.	FCC ID / DoC
HOST COMPUTER	VIVA	VIVA 686-350	HS-13	DOC
MONITOR	COMPAQ	MV500	MT-04	DOC
KEYBOARD	Acer	6511-AW	KB-18	JVPKBS-WIN
MOUSE	LOGITECH	M-S34	ME-12	Dz1211029
MODEM	ACEEX	DM-1414	MD-07	IFXDM1414
PRINTER	HP	C2642E	PRN-05	TH93C1R2CW
JOYSTICK	LOGITECH	WINGMAN DIGITAL	JOY-14	DZL211071
SPEAKER	SINGVOX	SP-362	SPK-12, 13	N/A
PLAYER	Panasonic	RQ-L309GT	PLY-04	N/A
MICROPHONE	DYNAMIC	CCS-MIC03	MIC-03	N/A
SOUND CARD ( <b>EUT</b> )	LABWAY	A571-T2	N/A	LWHA571-T2

## 4. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. 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:200064-0 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 listed with Federal Communications Commission (reference no: 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 Methods," Publication 16.

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 are 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 is 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

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 turn table.

## 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 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 CLASS B ALTERNATIVE DISTANCE (CISPR 22:1993)

MEASURING DISTANCE OF 10 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	30	29.5
88-216	45	33.0
216-960	60	35.6
960-1000	150	43.5
ABOVE 1000	150	43.5

Note: Limits extrapolated 20dB/decade

### 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

## 12. CONDUCTED EMISSION LIMITS

### CLASS B

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

### CLASS A

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

### 13. CONDUCTED EMISSION TEST PROCEDURE

The EUT is located so that the distance between the boundary of the EUT and the closest surface to the LISN is 0.8m.

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

Conducted disturbance shall be measured between the phase lead and the ground, and between the neutral lead and the ground. The frequency 0.450 - 30 MHz shall be investigated.

Set the EMI receiver to PEAK detector setting and sweep continuously over the frequency range to be investigated. Set resolution bandwidth to 9kHz minimum. Connect EMI receiver input cable to LINE 1 RF measurement connection on the LISN. Connect a 50ohm terminator to the unused RF connection on the LISN. For each mode of EUT operation, maximize emissions readings by manipulating cable and wire positions. Record the configuration for each EUT power cord which produces emissions closest to the limit. Repeat the same procedure for LINE 2 of each EUT power cord.

### 14. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is either 3 meters or 10 meters (Class B or Class A). During the test, the table is rotated 360 degrees to maximize emissions, and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

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

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily differentiate between broadcast stations and intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables 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	18°C	20°C
Humidity	79%	78%

## 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.

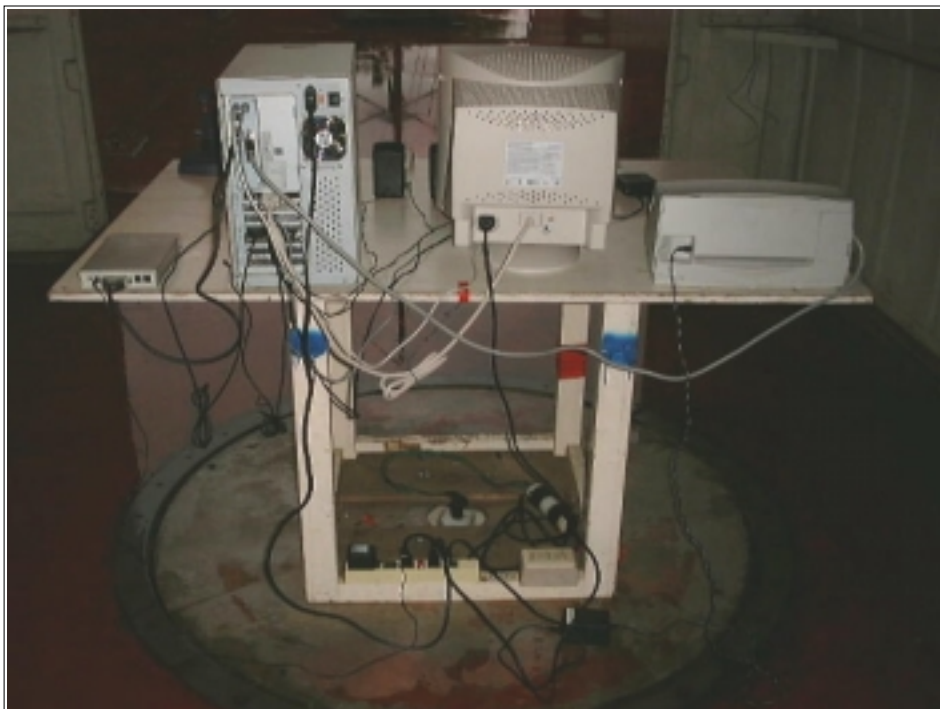
SOFTWARE USED DURING THE TESTS	
Operating System	WINDOWS 98
File Name	MPLAYER.EXE AND EMITEST.EXE
Program Sequence	1. WINDOWS 98 BOOTS SYSTEM. 2. RUN MPLAYER.EXE TO PLAY CD MUSIC. 3. RUN EMITEST.EXE TO ACTIVATE ALL PERIPHERALS AND DISPLAY "H" PATTERN ON MONITOR SCREEN.

## 17. EQUIPMENT MODIFICATIONS

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

**NOT APPLICABLE**

## 18. EUT SETUP PHOTOS



**Radiated Emission Setup Photos (Worst Emission Position)**



**Conducted Emission Setup Photos (Worst Emission Position)**

## 19. TEST EQUIPMENT LIST

Equipment	Manuf.	Model No.	Serial No.	Site	Cal Date	Due Date
EMI TEST DISPLAY	ROHDE & SCHWARZ	DSAI-D 804.8932.52	827832/001	D	10/99	10/00
EMI TEST RF UNIT	ROHDE & SCHWARZ	ESBI-RF/1005.4300.52	827832/003	D	10/99	10/00
AMPLIFIER	HP	8447E B	1937A1401	D	9/99	9/00
ANTENNA	EMCO	3142	1212	D	07/99	07/00
LISN	EMCO	3825/2	1842	D	1/00	1/01
LISN(EUT)	EMCO	3825/2	1435	D	1/00	1/01
CABLE	TALLEY	HELIX FSJ4-50B	D0301	D	1/00	1/01
CABLE	TIME MICROWAVE	LMR-400-2	D1001	D	1/00	1/01
SPECTRUM DISPLAY	H.P.	8566B	2937A06102	E	12/99	12/00
AMPLIFIER	H.P.	8447D B	1644A02328	E	5/99	5/00
ANTENNA	CHASE	CBL6111A	1547	E	1/00	1/01
TEST RECEIVER	ROHDE & SCHWARZ	ESHS20	840455/006	E	2/99	2/00
LISN	SOLAR	8012-50-R-24-BNC	8305114	E	7/99	7/00
LISN(EUT)	FISHER CUSTOM	FCC-LISN-50/250-25-2	107	E	7/99	7/00
CABLE	TIME MICROWAVE	LMR-400-2	E1001	E	1/00	1/01
CABLE	TALLEY	HELIX FSJ4-50B	E0301	E	1/00	1/01

## 20. CORRECTION FACTOR

### OATS NO. E

FREQ (MHZ)	ANTENNA 3 METER			ANTENNA 10 METER			SITE E
	HORI.	VERT.	CABLE LOSS (dB)	HORI.	VERT.	CABLE LOSS (dB)	AMP GAIN (dB)
30	20.08	17.25	0.90	17.26	18.45	0.90	27.80
35	16.83	14.14	1.00	16.20	14.65	0.90	28.10
40	14.39	11.69	1.00	13.88	11.97	1.00	28.10
45	11.63	9.89	1.10	11.19	9.93	1.00	27.90
50	9.29	8.07	1.20	8.79	8.40	1.00	28.00
60	6.03	5.18	1.40	6.19	5.52	1.20	27.70
70	6.49	5.83	1.40	6.79	5.69	1.30	27.60
80	7.57	6.93	1.60	7.48	7.03	1.40	27.50
90	8.84	9.45	1.60	8.66	8.24	1.60	27.60
100	9.55	10.62	1.70	9.27	9.50	1.70	27.50
120	12.09	13.10	1.80	12.00	11.80	1.60	27.40
125	12.15	13.48	1.80	11.97	11.78	1.70	27.50
140	12.27	13.04	2.00	11.99	11.42	1.80	27.10
150	11.65	12.47	2.50	11.37	10.65	2.30	26.90
160	10.89	11.38	2.20	10.61	9.50	2.00	26.90
175	9.65	10.45	2.20	9.59	9.06	2.00	26.80
180	9.34	10.01	2.20	9.32	8.93	2.20	26.70
200	9.69	9.70	2.40	9.02	9.62	2.10	26.70
250	12.87	12.97	2.70	12.26	12.61	2.50	26.40
300	13.92	13.52	3.00	13.25	13.74	2.70	26.80
400	16.73	16.36	3.40	16.02	16.60	3.20	26.80
500	18.22	18.22	3.90	18.15	18.23	3.60	27.20
600	19.77	19.94	4.30	20.11	19.95	4.00	26.30
700	21.36	21.53	4.50	21.20	21.68	4.20	26.10
800	22.60	22.69	4.90	22.24	22.55	4.50	25.60
900	23.45	23.42	5.20	23.22	23.78	4.90	26.90
1000	24.85	24.87	5.70	24.85	24.87	5.30	26.10
1100	25.36	25.23		25.06	25.64		27.00
1200	26.41	26.01		26.00	26.08		27.50
1300	28.77	28.75		28.60	28.50		26.90
1400	27.76	27.31		27.51	27.48		
1500	29.49	29.60		29.28	28.99		
1600	29.19	28.79		28.79	28.87		
1700	30.18	29.84		30.25	30.52		
1800	33.29	32.54		32.13	32.68		
1900	33.07	32.77		32.52	32.69		
2000	32.38	32.45		31.84	32.67		

## 21. 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
NORMAL MODE	02/23/00	8199F#(02, 06)	<input checked="" type="checkbox"/>

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

OATS No: E / 10 M		Data Report No. 8199F#(02, 06)		Date 02/23/00		Tested By: EDDY NI	
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	Pol. H/V
49.150	43.40	-15.20	28.20	30.00	-1.80	P	V
135.160	39.50	-10.97	28.53	30.00	-1.47	P	V
159.745	41.00	-12.36	28.64	30.00	-1.36	P	V
49.150	40.80	-14.60	26.20	30.00	-3.80	P	H
135.164	37.15	-10.52	26.63	30.00	-3.37	P	H
159.758	38.62	-11.27	27.34	30.00	-2.66	P	H

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator(3dB)  
- 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 No.	Worst Mode
NORMAL MODE	02/24/00	8199E#(33, 24)	<input checked="" type="checkbox"/>

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

Conducted Room		Data Report No. 8199E#(33, 24)		Date 02/24/00		Tested By: EDDY NI	
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)
0.158	42.52	0.00	42.52	65.56	-23.04	P	L1
0.658	44.34	0.00	44.34	56.00	-11.66	P	L1
0.724	46.26	0.00	46.26	56.00	-9.74	P	L1
0.724	39.87	0.00	39.87	46.00	-6.13	A	L1
0.158	42.68	0.00	42.68	65.56	-22.88	P	L2
4.114	33.92	0.00	33.92	56.00	-22.08	P	L2
13.479	39.26	0.00	39.26	60.00	-20.74	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, 2	Number of I/O ports of this type: 2
I/O Port: <b>KB, MOUSE</b>	Connector Type: <b>Mini Din-6 Pin</b>
Capture Type: <b>Snap In</b>	Type of Cable used: <b>Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>1.8 M</b>
Bundled During Tests: <b>No</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

CABLE NO: 3, 4	Number of I/O ports of this type: 2
I/O Port: <b>SPEAKER</b>	Connector Type: <b>Phone Jack</b>
Capture Type: <b>Snap In</b>	Type of Cable used: <b>Un-Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>1.1 M</b>
Bundled During Tests: <b>No</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

CABLE NO: 5	Number of I/O ports of this type: 1
I/O Port: <b>PLAYER</b>	Connector Type: <b>Phone Jack</b>
Capture Type: <b>Snap In</b>	Type of Cable used: <b>Un-Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>1.5 M</b>
Bundled During Tests: <b>No</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

CABLE NO: 6	Number of I/O ports of this type: 1
I/O Port: <b>MICROPHONE</b>	Connector Type: <b>Phone Jack</b>
Capture Type: <b>Snap In</b>	Type of Cable used: <b>Un-Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>4.3 M</b>
Bundled During Tests: <b>Yes</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

CABLE NO: 7	Number of I/O ports of this type: 1
I/O Port: <b>JOYSTICK</b>	Connector Type: <b>DB15</b>
Capture Type: <b>Screw In</b>	Type of Cable used: <b>Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>2.1 M</b>
Bundled During Tests: <b>Yes</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

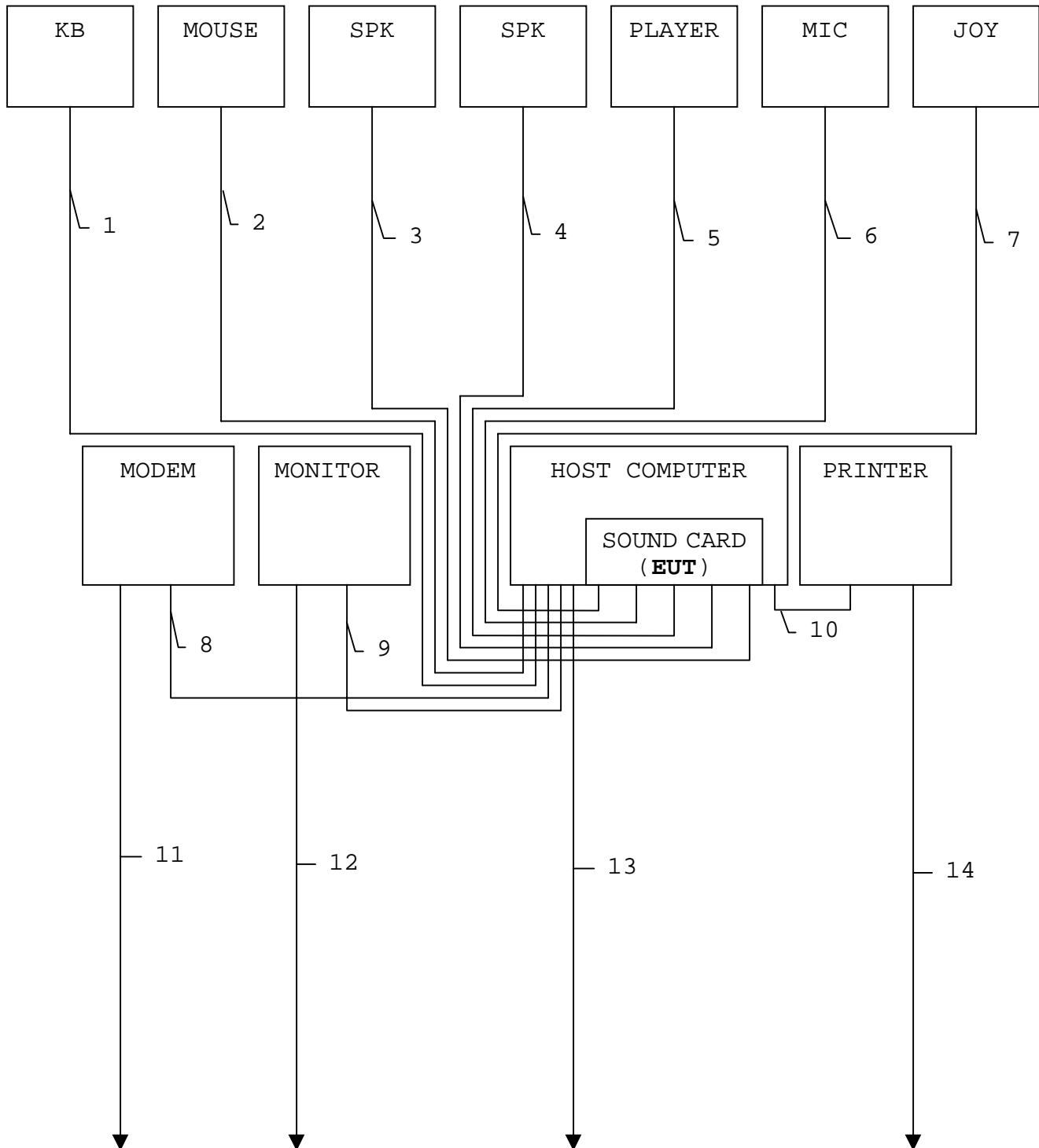
CABLE NO: 8	Number of I/O ports of this type: 1
I/O Port: <b>Serial Modem</b>	Connector Type: <b>DB25</b>
Capture Type: <b>Screw In</b>	Type of Cable used: <b>Shielded</b>
Cable Connector Type: <b>Metal</b>	Cable Length: <b>1.1 M</b>
Bundled During Tests: <b>No</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

CABLE NO: 9	Number of I/O ports of this type: 1
I/O Port: <b>VGA</b>	Connector Type: <b>DB15</b>
Capture Type: <b>Screw In</b>	Type of Cable used: <b>Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>1.5 M</b>
Bundled During Tests: <b>Yes</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>A Ferrite bead on the cable of PC end.</b>	

CABLE NO: 10	Number of I/O ports of this type: 1
I/O Port: <b>Parallel Printer</b>	Connector Type: <b>DB25</b>
Capture Type: <b>Screw In</b>	Type of Cable used: <b>Shielded</b>
Cable Connector Type: <b>Metal</b>	Cable Length: <b>1.5 M</b>
Bundled During Tests: <b>No</b>	Data Traffic Generated: <b>Yes</b>
Remarks: <b>N/A</b>	

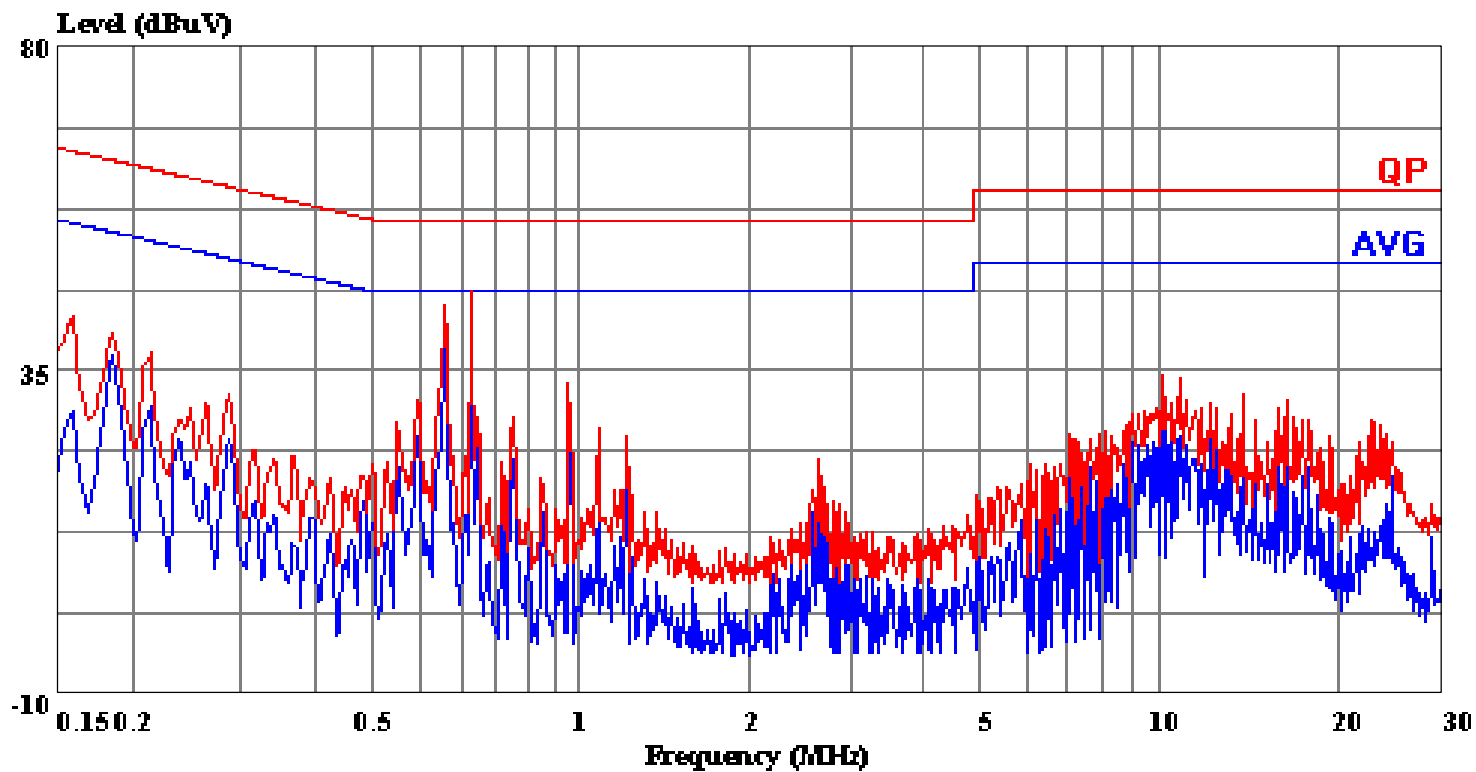
CABLE NO: 11~14	Number of I/O ports of this type: 4
I/O Port: <b>Power Cord</b>	Connector Type: <b>AC Inlet</b>
Capture Type: <b>Snap In</b>	Type of Cable used: <b>Un-Shielded</b>
Cable Connector Type: <b>Molded</b>	Cable Length: <b>1.8 M</b>
Bundled During Tests: <b>No (Radiation), Yes (Line Conduction)</b>	Data Traffic Generated: <b>No</b>
Remarks: <b>N/A</b>	

### Configuration Block Diagram



Data#: 33 File#: 8199e.emi

Date: 02-24-2000 Time: 09:59:35



**(CCS E-Site)**

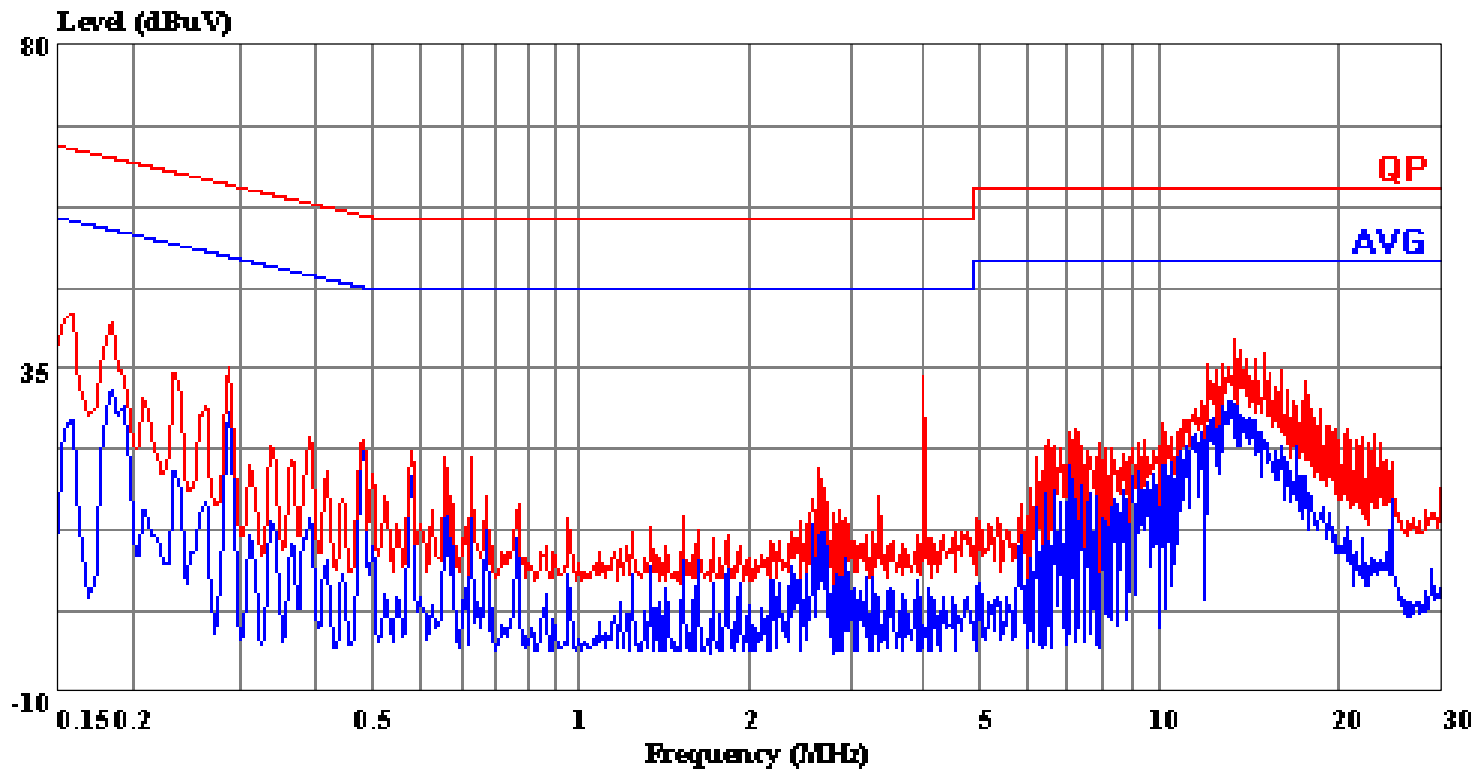
Trace: 32

Ref Trace:

Condition: LINE  
Report No. : 00E8199  
Test Engr. : EDDY NI  
Company : LABWAY CORPORATION  
EUT : A571-T2  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: EN55022 CLASS B  
Mode of Op. : NORMAL MODE

Data#: 24 File#: 8199e.emi

Date: 02-24-2000 Time: 09:47:00



**(CCS E-Site)**

Trace: 23

Ref Trace:

Condition: NEUTRAL  
Report No. : 00E8199  
Test Engr. : EDDY NI  
Company : LABWAY CORPORATION  
EUT : A571-T2  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: EN55022 CLASS B  
Mode of Op. : NORMAL MODE

Data#: 2 File#: 8199f.emi  
CCS E-Site

Date: 02-23-2000 Time: 14:06:37

Condition: VERTICAL  
Report No. : 00E8199  
Test Engr. : EDDY NI  
Company : LABWAY CORPORATION  
EUT : A571-T2  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: EN55022 CLASS B  
Mode of Op. : NORMAL MODE

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	49.150	43.40	-15.20	28.20	30.00	-1.80	Peak
2	122.880	33.70	-11.03	22.67	30.00	-7.33	Peak
3	135.160	39.50	-10.97	28.53	30.00	-1.47	Peak
4	159.745	41.00	-12.36	28.64	30.00	-1.36	Peak
5	184.305	35.30	-12.72	22.58	30.00	-7.42	Peak
6	220.425	35.40	-10.84	24.56	30.00	-5.44	Peak

Data#: 6 File#: 8199f.emi  
CCS E-Site

Date: 02-23-2000 Time: 15:26:43

Condition: HORIZONTAL  
Report No. : 00E8199  
Test Engr. : EDDY NI  
Company : LABWAY CORPORATION  
EUT : A571-T2  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: EN55022 CLASS B  
Mode of Op. : NORMAL MODE

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	45.050	37.90	-12.31	25.59	30.00	-4.41	Peak
2	49.150	40.80	-14.60	26.20	30.00	-3.80	Peak
3	114.278	37.40	-11.82	25.58	30.00	-4.42	Peak
4	135.164	37.15	-10.52	26.63	30.00	-3.37	Peak
5	159.758	38.62	-11.27	27.34	30.00	-2.66	Peak