



FCC CFR47 PART 15 DIGITAL DEVICE

TEST REPORT

FOR

LCD PANEL

MODEL: 8.4" FPD

FCC ID: PZGP00019

REPORT NUMBER: 01E9761

ISSUE DATE: February 01, 2002

Prepared for

**Xybernaut Corporation
12701 Fair Lakes Circle, Suite 550, Fairfax,
Virginia 22033, USA**

Prepared by

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

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME: Xybernaut Corporation
12701 Fair Lakes Circle, Suite 550, Fairfax, Virginia 22033, USA

CONTACT PERSON: Wes Williams / VP of Manufacturing

TELEPHONE NO: 703-631-6925

MODEL NO/NAME: 8.4" FPD

SERIAL NO: N/A

DATE TESTED: January 24, 2002

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	☒ YES ☐ NO
DEVIATIONS FROM MEASUREMENT PROCEDURE	☐ YES (refer to section 21 for comments) ☒ NO
RADIATED EMISSION TEST RESULT	-1.10 dB @ 186.993 MHz / HORIZONTAL
CONDUCTED EMISSION TEST RESULT	-15.78 dB @ 0.162 MHz / L2

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

RICK YEO / EMC MANAGER
COMPLIANCE ENGINEERING SERVICES

2. PRODUCT DESCRIPTION

CHASSIS TYPE	PLASTIC
LIST OF EACH OSC. OR XTAL. FREQ. (FREQ.>=1 MHz)	37 MHz; 4MHz
POWER REQUIREMENTS	DC 5/12V FROM MOBILE ASSISTANT V PC

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
MOBILE ASSISTANT V PC	XYBERNAUT	Xydernaut Mobile Assisnant	N/A	DoC
IEEE 1394 MO	FUJITSU	MDF3064EE	05002981	DoC
USB MOUSE	LOGITECH	M-BE58	LZA10752499	DoC

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:SL2-IN-E-0005 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 BSMI 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.

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

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

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	17°C	17°C
Humidity	82%	82%

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	WINFCC.EXE
Program Sequence	1. WINDOWS 98 BOOTS SYSTEM. 2. RUN WINFCC.EXE TO ACTIVATE EUT AND DISPLAY "H" PATTERN.

17. EQUIPMENT MODIFICATIONS

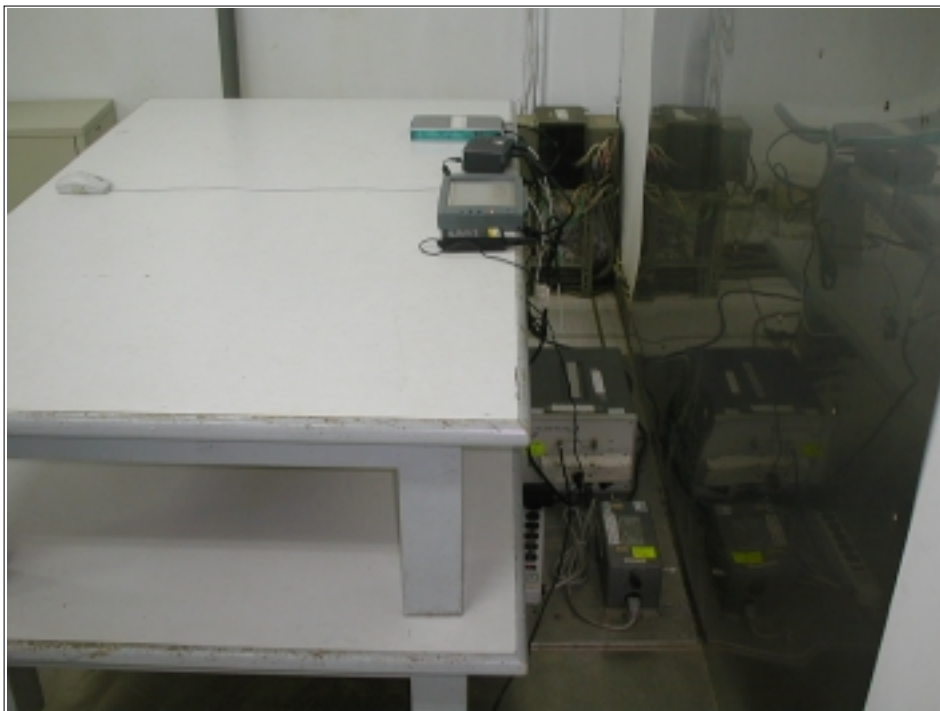
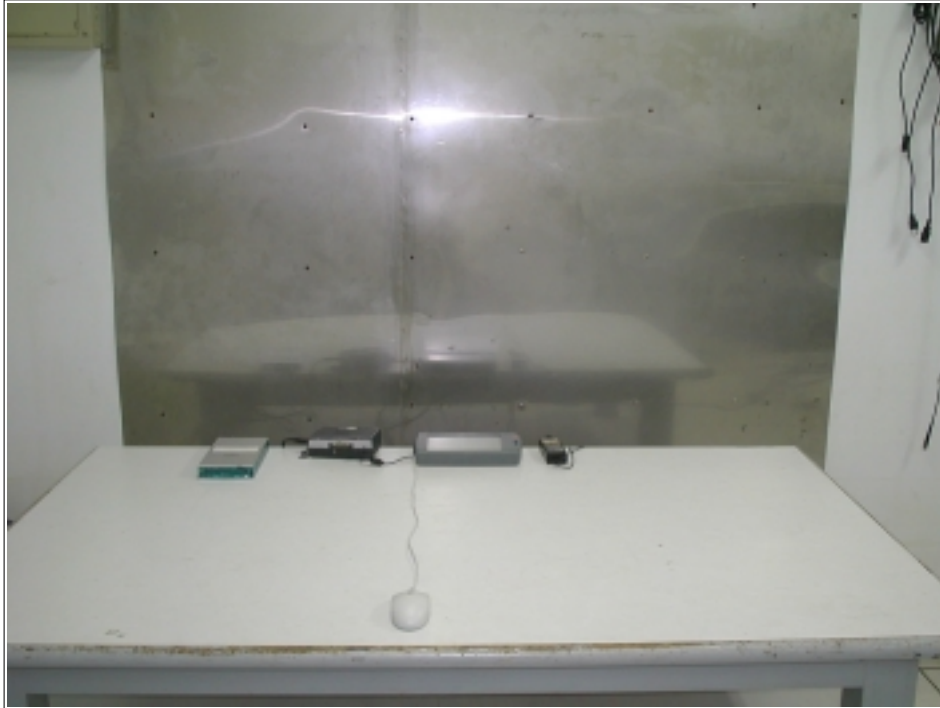
To achieve compliance to CLASS B levels, the following change(s) were made during compliance testing:

- Mod.#1 Put on a metal case on the circuit board.
- Mod.#2 use electric conduction foam rubber Between xed module and metal case.
- Mod.#3 Shielding the cable which connects lcd module and circuit board by shielding tape.
- Mod.#4 Let the shielded cable to touch metal case.
- Mod.#5 Add a core on the cable which connects EUT and PC device near EUT.

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	10/01	10/02
EMI TEST RF UNIT	ROHDE & SCHWARZ	ESBI-RF/1005.4300.52	827832/003	D	10/01	10/02
AMPLIFIER	H.P.	8447D B	1644A02328	D	05/01	05/02
ANTENNA	SCHWARZBECK	VULB 9160	3104	D	05/01	05/02
CABLE	TIME MICROWAVE	LMR-400	N-TYPE02	D	07/01	07/02
LISN	SOLAR	8012-50-R-24-BNC	8305114	CON.	07/01	07/02
LISN(EUT)	EMCO	3825/2	1842	CON.	01/02	01/03
TEST RECEIVER	ROHDE & SCHWARZ	ESHS20	840455/006	CON.	03/01	03/02

20. CORRECTION FACTOR**OATS NO. D**

	ANTENNA 3 METER			ANTENNA 10 METER			SITE D
FREQ (MHZ)	HORI.	VERT.	CABLE LOSS (dB)	HORI.	VERT.	CABLE LOSS (dB)	AMP GAIN (dB)
30	12.24	12.24	0.84	11.51	11.51	0.84	27.15
35	12.40	12.40	0.88	11.67	11.67	0.88	27.15
40	12.71	12.71	0.94	11.98	11.98	0.94	27.12
45	12.75	12.75	0.99	12.02	12.02	0.99	27.08
50	12.57	12.57	1.04	11.84	11.84	1.04	27.10
60	12.67	12.67	1.07	11.95	11.95	1.07	27.13
70	10.99	10.99	1.17	10.26	10.26	1.17	27.10
80	8.77	8.77	1.22	8.04	8.04	1.22	27.13
90	9.30	9.30	1.29	8.57	8.57	1.29	27.12
100	10.24	10.24	1.40	9.51	9.51	1.40	27.10
120	12.03	12.03	1.48	11.30	11.30	1.48	26.98
125	12.33	12.33	1.48	11.60	11.60	1.48	27.03
140	13.36	13.36	1.52	12.63	12.63	1.52	25.69
150	13.90	13.90	1.63	13.17	13.17	1.63	26.15
160	13.88	13.88	1.63	13.15	13.15	1.63	26.05
175	12.89	12.89	1.72	12.16	12.16	1.72	25.94
180	12.44	12.44	1.72	11.71	11.71	1.72	25.85
200	10.38	10.38	1.80	9.80	9.80	1.80	25.70
250	11.92	11.92	2.03	11.61	11.61	2.03	25.87
300	13.19	13.19	2.24	13.07	13.07	2.24	26.13
400	15.32	15.32	2.62	15.45	15.45	2.62	26.28
500	17.06	17.06	2.90	17.34	17.34	2.90	26.87
600	19.16	19.16	3.25	19.55	19.55	3.25	26.56
700	20.14	20.14	3.53	20.61	20.61	3.53	26.51
800	21.76	21.76	3.81	22.29	22.29	3.81	26.32
900	22.58	22.58	4.09	23.16	23.16	4.09	26.87
1000	23.44	23.44	4.19	24.06	24.06	4.19	27.22
1100	24.97	24.97		25.62	25.62		27.97
1200	25.93	25.93		26.60	26.60		
1300	26.33	26.33		27.03	27.03		
1400	28.42	28.42		29.13	29.13		
1500	28.14	28.14		28.88	28.88		
1600	30.34	30.34		31.08	31.08		
1700	32.44	32.44		33.19	33.19		
1800	31.93	31.93		32.70	32.70		
1900	31.87	31.87		32.65	32.65		
2000	35.37	35.37		36.16	36.16		

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	01/24/02	9761D#(2, 3)	☒

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

OATS No: D / 10 M		Data Report No. 9761D#(2, 3)		Date 01/24/02		Tested By: CLIFF LAI	
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
60.136	35.52	-8.11	27.41	30.00	-2.59	Q	V
66.220	36.33	-8.82	27.51	30.00	-2.49	P	V
160.389	32.85	-5.33	27.53	30.00	-2.48	P	V
159.716	32.49	-5.28	27.21	30.00	-2.79	P	H
186.993	36.09	-7.19	28.90	30.00	-1.10	Q	H
300.022	39.27	-4.79	34.48	37.00	-2.52	P	H

C.F.(Correction Factor)=Antenna Factor + Cable Loss - Amplifier Gain
(+ Attenuator 6dB)

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	01/24/02	9761E#(8, 24)	☒

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

Conducted Room		Data Report No. 9761E#(8, 24)		Date 01/24/02		Tested By: CLIFF LAI	
Six Highest Conducted Emission Readings							
Frequency Range Investigated				150 kHz TO 30 MHz			
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.153	48.12	0.02	48.14	65.82	-17.68	P	L1
0.183	46.04	0.02	46.06	64.33	-18.27	P	L1
0.162	49.54	0.02	49.56	65.34	-15.78	P	L2
0.183	48.08	0.02	48.10	64.33	-16.23	P	L2
0.499	36.84	0.05	36.89	56.01	-19.12	P	L2
4.598	35.97	0.25	36.22	56.00	-19.78	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

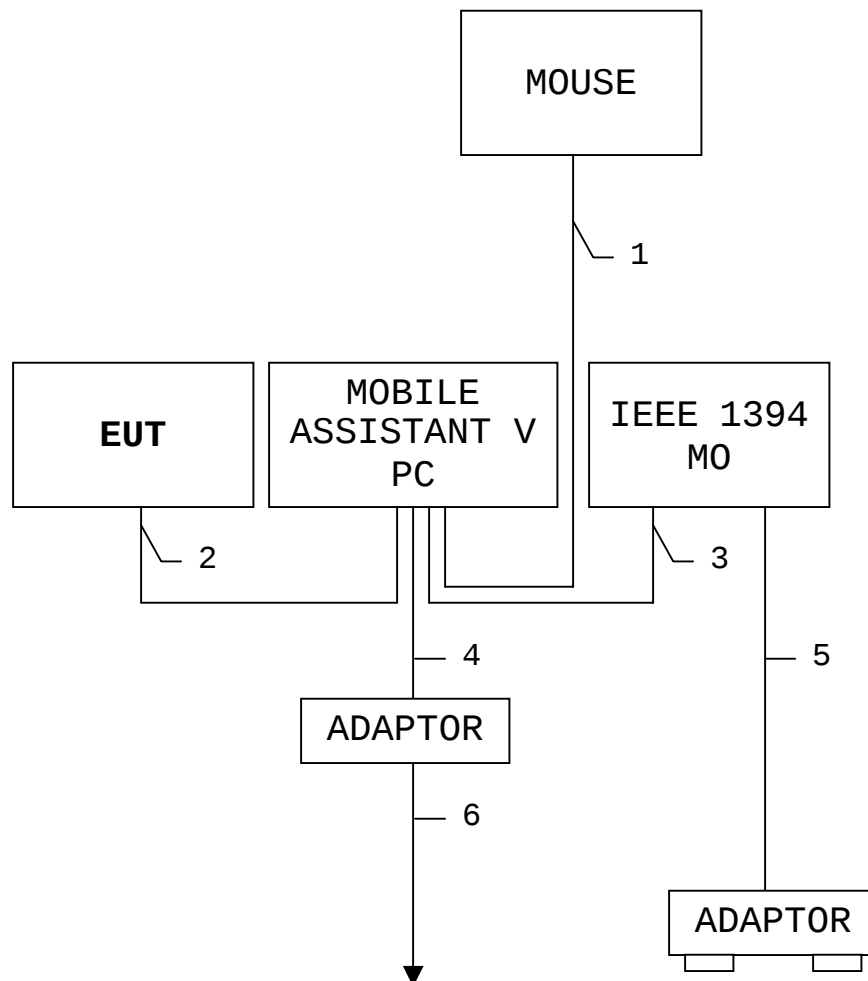
NO: 1	CABLE Name: N/A	Number of I/O ports of this type: 1
I/O Port: USB MOUSE		Type of Cable used: Shielded
Cable Connector Type: Molded		Data Traffic Generated: Yes
Bundled During Tests: No		Cable Length: 1.8 M
Remarks: N/A		

NO: 2	CABLE Name: N/A	Number of I/O ports of this type: 1
I/O Port: MOBILE ASSISTANT V PC		Type of Cable used: Shielded
Cable Connector Type: Molded		Data Traffic Generated: No
Bundled During Tests: Yes		Cable Length: 1.2 M
Remarks: Ferrite bead loaded at both ends.		

NO: 3	CABLE Name: N/A	Number of I/O ports of this type: 1
I/O Port: IEEE 1394 MO		Type of Cable used: Shielded
Cable Connector Type: Molded		Data Traffic Generated: Yes
Bundled During Tests: Yes		Cable Length: 1.5 M
Remarks: N/A		

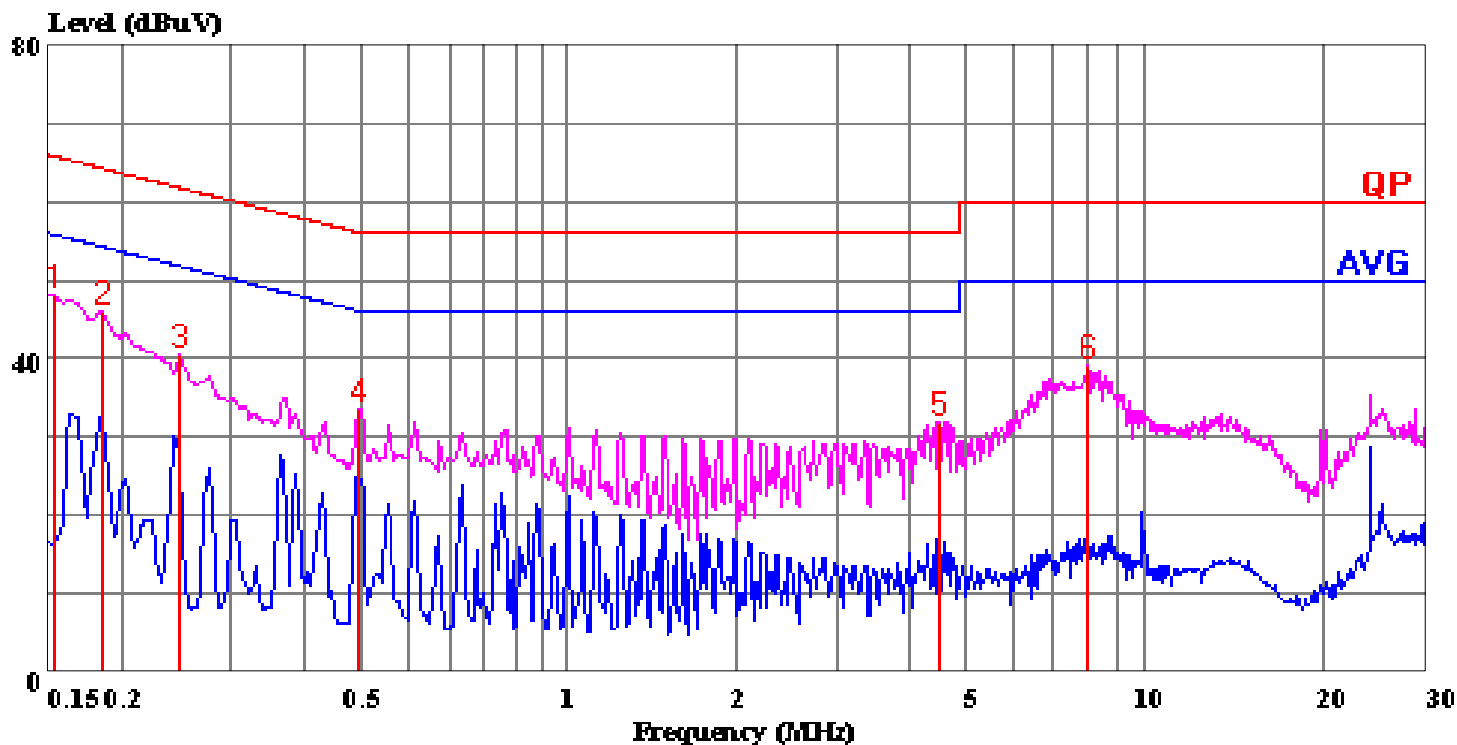
NO: 4, 5	CABLE Name: N/A	Number of I/O ports of this type: 2
I/O Port: DC Power		Type of Cable used: Un-Shielded
Cable Connector Type: Molded		Cable Length: 0.9 M, 1.8 M
Bundled During Tests: No (Radiation), Yes (Line Conduction)		
Remarks: A Ferrite bead on the cable of DC Plug end.		

NO: 6	CABLE Name: N/A	Number of I/O ports of this type: 1
I/O Port: AC Power Cord		Type of Cable used: Un-Shielded
Cable Connector Type: Molded		Cable Length: 1.8 M
Bundled During Tests: No (Radiation), Yes (Line Conduction)		
Remarks: N/A		

Configuration Block Diagram

Data#: 25 File#: 9761e.emi

Date: 2002-01-24 Time: 17:26:25



(CES Conducted)

Trace: 23 24

Ref Trace:

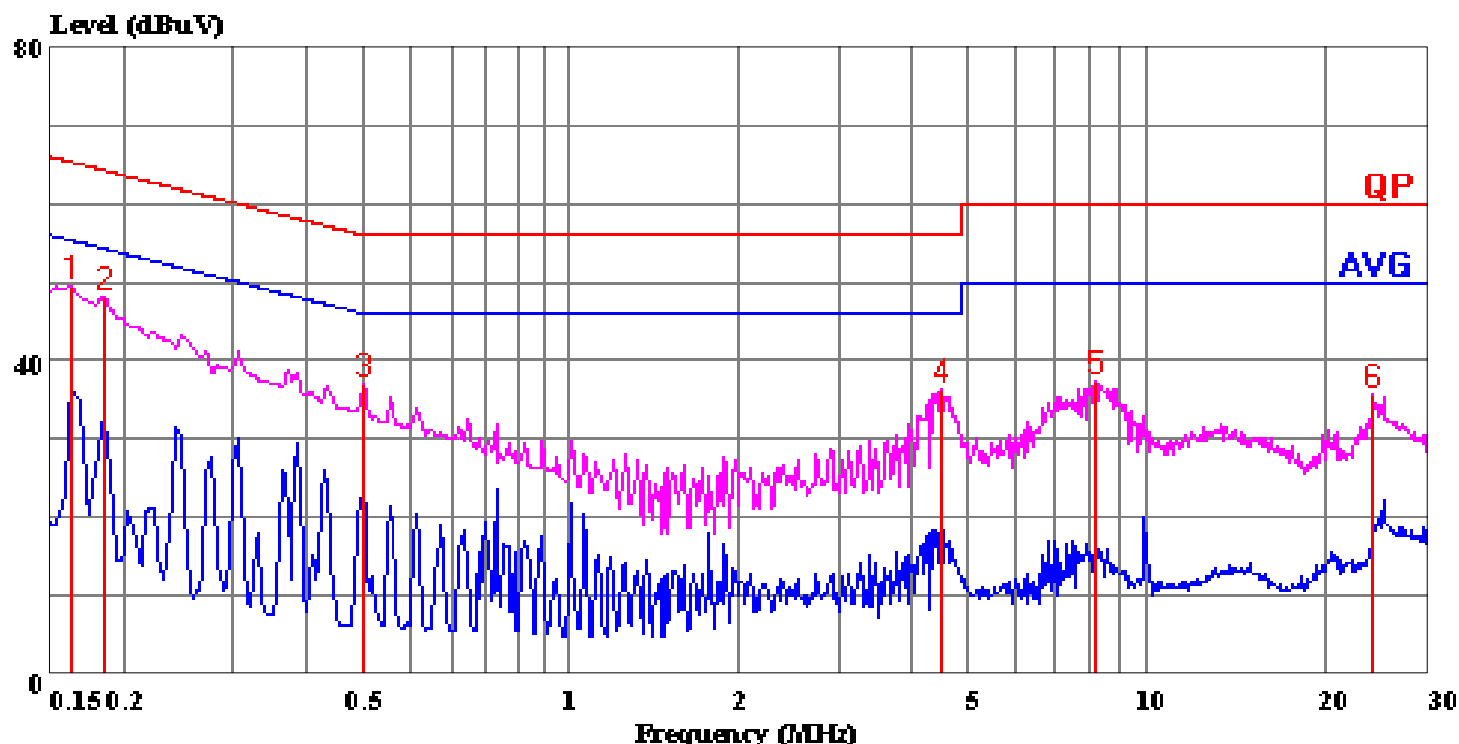
Condition: LINE
Report No. : 01E9761
Test Engr. : CLIFF LAI
Company : Xybernaut Corporation
EUT : 8.4" FPD
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASSB W/ EN55022 CLASS B LIMIT
Mode of Op. : NORMAL MODE

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.153	48.12	0.02	48.14	65.82	-17.68	Peak
2	0.183	46.04	0.02	46.06	64.33	-18.27	Peak
3	0.248	40.42	0.02	40.44	61.82	-21.38	Peak
4	0.494	33.49	0.05	33.54	56.10	-22.56	Peak
5	4.598	31.75	0.25	32.00	56.00	-24.00	Peak
6	8.148	38.65	0.32	38.97	60.00	-21.03	Peak

Data#: 26 File#: 9761e.emi

Date: 2002-01-24 Time: 17:28:05



(CES Conducted)

Trace: 7 8

Ref Trace:

Condition: NEUTRAL
Report No. : 01E9761
Test Engr. : CLIFF LAI
Company : Xybernaut Corporation
EUT : 8.4" FPD
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS B W/ EN55022 CLASS B LIMIT
Mode of Op. : NORMAL MODE

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	49.54	0.02	49.56	65.34	-15.78	Peak
2	0.183	48.08	0.02	48.10	64.33	-16.23	Peak
3	0.499	36.84	0.05	36.89	56.01	-19.12	Peak
4	4.598	35.97	0.25	36.22	56.00	-19.78	Peak
5	8.323	37.18	0.32	37.50	60.00	-22.50	Peak
6	24.142	35.24	0.49	35.73	60.00	-24.27	Peak

Data#: **2** File#: 9761d.emi
CCS D-Site

Date: 2002-01-24 Time: 15:25:31

Condition: VERTICAL / 10 m
Report No. : 01E9761
Test Engr. : CLIFF LAI
Company : Xybernaut Corporation
EUT : 8.4" FPD
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS B W/ EN55022 CLASS B LIMIT
Mode of Op. : NORMAL MODE

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	48.000	33.31	-8.15	25.17	30.00	-4.83	Peak
2	55.293	34.30	-8.34	25.96	30.00	-4.04	QP
3	60.136	35.52	-8.11	27.41	30.00	-2.59	QP
4	66.220	36.33	-8.82	27.51	30.00	-2.49	Peak
5	70.163	36.86	-9.67	27.19	30.00	-2.81	QP
6	110.278	33.71	-9.26	24.45	30.00	-5.55	Peak
7	119.984	33.71	-8.21	25.50	30.00	-4.50	Peak
8	130.000	28.91	-7.12	21.79	30.00	-8.21	Peak
9	160.389	32.85	-5.33	27.53	30.00	-2.48	Peak
10	175.128	28.81	-6.15	22.66	30.00	-7.34	Peak
11	186.471	33.86	-7.19	26.67	30.00	-3.33	Peak
12	210.511	32.57	-7.84	24.73	30.00	-5.27	Peak
13	250.611	33.71	-6.20	27.51	37.00	-9.49	Peak
14	300.022	38.56	-4.79	33.77	37.00	-3.23	Peak
15	399.978	34.50	-2.21	32.29	37.00	-4.71	Peak

Data#: **3** File#: 9761d.emi
CCS D-Site

Date: 2002-01-24 Time: 15:58:11

Condition: HORIZONTAL / 10 m
Report No. : 01E9761
Test Engr. : CLIFF LAI
Company : Xybernaut Corporation
EUT : 8.4" FPD
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS B W/ EN55022 CLASS B LIMIT
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	48.020	31.05	-8.15	22.91	30.00	-7.09	Peak
2	54.989	27.85	-8.39	19.46	30.00	-10.54	Peak
3	66.156	32.65	-8.82	23.83	30.00	-6.17	Peak
4	70.173	33.79	-9.67	24.12	30.00	-5.88	Peak
5	110.584	35.64	-9.16	26.48	30.00	-3.52	Peak
6	130.302	29.52	-7.12	22.40	30.00	-7.60	Peak
7	159.716	32.49	-5.28	27.21	30.00	-2.79	Peak
8	174.904	26.96	-6.15	20.81	30.00	-9.19	Peak
9	186.993	36.09	-7.19	28.90	30.00	-1.10	QP
10	210.485	33.18	-7.84	25.34	30.00	-4.66	Peak
11	250.578	38.36	-6.20	32.16	37.00	-4.84	Peak
12	300.022	39.27	-4.79	34.48	37.00	-2.52	Peak
13	400.011	32.37	-2.21	30.16	37.00	-6.84	Peak