The test was performed in accordance with ANSI C63.4-1992, "AMERICAN NATIONAL STANDARD FOR MEASUREMENT OF RADIO-NOISE EMISSION FROM LOW-VOLTAGE ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9KHz TO 40GHz"

Test equipment used for line Conducted and Radiated emissions as following. All equipment were calibrated according to ANSI C63.4-1992 and ISO-9000 requirement unless otherwise specified.

Test Equipment	Model No.	Serial No.	Calibrated Date	
Spectrum	HP8568B	2848A17338	7/22/1999	
RF Preselector	HP85685A	2620A00138	7/22/1999	
QP Adapter	HP85650A	2811A01326	7/22/1999	
EMI Receiver	HP85460A	3441A00199	10/28/1999	
RFI Filter Section	HP85460A	3330A00177	10/28/1999	
EMI Receiver	R & S ESVS30	8419977/066	10/06/1999	
Biconical Antenna	EMCO 3110B	3222	12/16/1999	
Biconical Antenna	EMCO 3110B	3224	12/16/1999	
Log-Periodic Antenna	EMCO 3146A	1424	12/20/1999	
Log-Periodic Antenna	EMCO 3146A	1425	12/20/1999	
LISN	EMCO 3825/2	9311-2153	10/01/1999	
LISN	EMCO 3825/2	9311-2154	10/01/1999	
Turn Table	EMCO 1060	1068	11/18/1999	
Antenna Tower	EMCO 1050	1113	11/18/1999	
RF Cable	M17/75-RG214-NE	N/A	11/18/1999	
Computer	HP9000/300	2614A78610	N/A	
Printer	HP2225A	2728S02586	N/A	
Plotter	HP7440A	2539A40856	N/A	

Traceability to R.O.C. and international standards is assured by using calibrated all equipment.

For system measurement, the EUT "201P10" was connected to:

Item	Model No.	Serial No.	FCC ID
1. Computer	Acer AP6100	A0283000007M	FCC Logo
2. Keyboard	KB-7993	0051312	FCC Logo
3. Mouse	M-S34	LZA73005463	DZL211029
4. Printer	HP 2225C	3123S97227	DSI6XU2225
5. Modem	USRobotics 268	0002680559278575	CJE-0318
6. Vide Card	Matrox G400	91127000373	FCC Logo
7. CD-ROM	Sony CDU31A		FCC Logo

The system was configured for testing in a typical fashion (as a customer would normally use it) according to ANSI C63.4-1992, please see the photographs for detail.

Both conducted and radiated testing were performed according to the procedure in ANSI C63.4-1992. Conducted testing was performed in screen room and radiated testing was

performed in open site at an antenna to EUT distance of 3-meter on horizontal and vertical polarization.

First, pre-scan all modes in screen room then select 3 higher modes (worst case) were tested and reported.

The line conductive interference was tested with 110VAC and 220VAC receptively. Unshielded power cord was used during test.

Extra USB cable was connected to PC during test.

Tested and reported modes as following:

Report No.	Resolution	Frequencies	I/F Cable
EMI00-002	1600 x 1200	120.0KHz/95Hz	D-sub
EMI00-002A	2048 x 1536	95.8KHz/60Hz	D-sub
EMI00-003A	2048 x 1536	95.8KHz/60Hz	B.N.C.

3. Test Program and Test Results

Set up the EUT and all peripherals as chapter 6 of ANSI C63.4-1992 for AC power line conducted emissions testing and radiated emissions testing.

Turn on the power of EUT and all peripherals, select an appropriate displaying mode using the "setup" software. Then run an EMI test program "HTEST.EMI" as a basic software to execute the EUT operating under test.

- Step 1: Run the "HTEST.EMI" on personal computer then sends "H" character to monitor continuously until full screen.
- Step 2: Personal computer sends a complete line of continuously repeating "H" to HP 2225C printer.
- Step 3: Personal computer sends a file of "H" pattern to floppy disk then read a file of "H" pattern from floppy disk.
- Step 4: Personal computer sends a file of "H" pattern to hard disk then read a file of "H" pattern from hard disk.
- Step 5: Personal computer sends a file of "H" patter to USRobotics 268 modem.
- Step 6: Return to step 1

All data in this report are "PEAK" value within 15dB margin unless otherwise noted.

The radiated (open site) data has included antenna and cable factors, sample calculation:

Final Value $(dB\mu\nu/m) = Reading (dBu\nu) + Antenna Factor (dB) + Cable Loss (dB)$

The measured data of radiated RF interference at open site and line conducted interference as attached.

Uncertainty Statement: The system uncertainties listed below are based on the instrument absolute specifications, and do not include uncertainties of the equipment under test.

Uncertainty	for	Dadiated	Emissions	Toot of 2	matana	Toot Cita
Uncertainty	TOL	Radiated	Emissions	Test at 3	meters	Lest Site

Source of Measurement Uncertainty	Uncertainty/dB
Antenna factor calibration	+/- 2.0
Cable loss calibration	+/- 0.5
Receiver Specification	+/- 1.0
Antenna position var.	+/- 2.0
Measurement distance var.	+/- 0.5
Site Imperfections	+/- 2.0
Mismatch	+/- 1.1
System repeatability	+/- 0.5

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Source of Measurement Uncertainty	Uncertainty/dB		
LISN Specification	+/- 2.0		
Cable loss calibration	+/- 0.5		
Receiver Specification	+/- 1.0		
Pulse Limiter Spec.	+/- 0.3		
Measurement distance var.	+/- 0.5		
Site Imperfections	+/- 2.0		
System repeatability	+/- 0.5		

The subject device is in compliance with the limits for a class B digital device, pursuant to part 15, subpart B of the FCC rules.

Ronnie Yang - Manager, Safety/Dev. PEI-CED NVLAP Signatory