



# Test Report

For

**Applicant** : AboCom Systems, Inc.

**Equipment Type** : NAT ROUTER

**Model** : CA2000

**FCC ID** : MQ4CA2000

**Report No. : 999H017F**



# Test Report Certification

## Quietek Corporation

No.75-1, Wang-Yeh Valley, Yung-Hsing, Chiung-Lin,  
Hsin-Chu County, Taiwan, R.O.C.

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**Accredited by NIST(NVLAP), VCCI, BSMI, DNV, TUV**

Applicant : AboCom Systems, Inc.  
Address : 1F, No.21, R&D Road II, Science-Based Industrial Park,  
Hsin-Chu , Taiwan, R.O.C.  
Equipment Type : NAT ROUTER  
Model : CA2000  
FCC ID. : MQ4CA2000  
Measurement Standard : CISPR 22/1994  
Measurement Procedure : ANSI C63.4 /1992  
Operation Voltage : DC5V  
Classification : Class B  
Test Result : Complied  
Test Date : September 16, 1999  
Report No. : 999H017F



The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented by: Zoe Lee

Test Engineer: Rico Sung

Approved: Gene Chang

*Zoe Lee*

*Rico Sung*

*Gene Chang*



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# 1. General Information

## 1.1 EUT Description

Applicant : AboCom Systems, Inc.

Address : 1F, No.21, R&D Road II, Science-Based Industrial Park,  
Hsin-Chu , Taiwan, R.O.C.

Equipment Type : NAT ROUTER

Model : CA2000

FCC ID : MQ4CA2000

Operation Voltage : DC5V

Transmission Speed : 10/100MHz

RS-232 Cable : Non-Shielded, 2m, 1pc

Lan Cable : Non-Shielded, 0.6m

Power Adapter : DVE, DSA-0151A-05A

Cable Out: Non-Shielded, 1.8m, 1pc

Remark :

1. The EUT is a NAT ROUTER with two Lan ports and one RS-232 port. The transmission speed of EUT could be 10Mbps and 100Mbps. Both transmission speed were tested respectively.
2. QuieTek had verified the construction and function in typical operation, then shown in this test report.

## 1.2 Tested System Details

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

### 1.2.1 Host Personal Computer

Model Number : VE 5/200 SERIES 4  
Serial Number : SG80700310  
FCC ID : DoC  
Manufacturer : HP  
Power Cord : Non-Shielded, 1.8m

### 1.2.2 Host Personal Computer

Model Number : VE 5/200 SERIES 4  
Serial Number : SG80700315  
FCC ID : DoC  
Manufacturer : HP  
Power Cord : Non-Shielded, 1.8m

### 1.2.3 Monitor

Model Number : CM752ET-311  
Serial Number : T8F005799  
FCC ID : DoC  
Manufacturer : HITACHI  
Data Cable : Shielded, 1.5m  
Power Cord : Shielded, 1.8m

### 1.2.4 Monitor

Model Number : CM752ET-311  
Serial Number : T8E004443  
FCC ID : DoC  
Manufacturer : HITACHI  
Data Cable : Shielded, 1.5m  
Power Cord : Shielded, 1.8m



### 1.2.5 Keyboard

Model Number : 6311-TW2C  
Serial Number : N/A  
FCC ID : DoC  
Manufacturer : ACER  
Data Cable : Shielded, 1.8m

### 1.2.6 Keyboard

Model Number : 6311-TW2C  
Serial Number : N/A  
FCC ID : DoC  
Manufacturer : ACER  
Data Cable : Shielded, 1.8m

### 1.2.7 Mouse

Model Number : M-S34  
Serial Number : LZB75078463  
FCC ID : DZL211029  
Manufacturer : HP  
Data Cable : Shielded, 1.8m

### 1.2.8 Mouse

Model Number : M-S34  
Serial Number : LZB75078428  
FCC ID : DZL211029  
Manufacturer : HP  
Data Cable : Shielded, 1.8m

### 1.2.9 Mouse

Model Number : M-S34  
Serial Number : LZB71178588  
FCC ID : DZL211029  
Manufacturer : HP  
Data Cable : Shielded, 1.8m



### 1.2.10 Printer

Model Number : C2642A  
Serial Number : MY75L1D2XN  
FCC ID : B94C2642X  
Manufacturer : HP  
Data Cable : Shielded, 1.2m  
Power Adapter : NMB, M/N: C2175A  
Cable for AC IN: Non-Shielded, 0.7m  
Cable for AC Out: Non-Shielded, 1.5m

### 1.2.11 Modem

Model Number : 1414  
Serial Number : 980033035  
FCC ID : IFAXDM1414  
Manufacturer : ACEEX  
Data Cable : Shielded, 1.5m  
Power Adapter : ACCEX, M/N: SCP41-91000A  
Cable Output : Shielded, 1.5m

### 1.2.12 Earphone

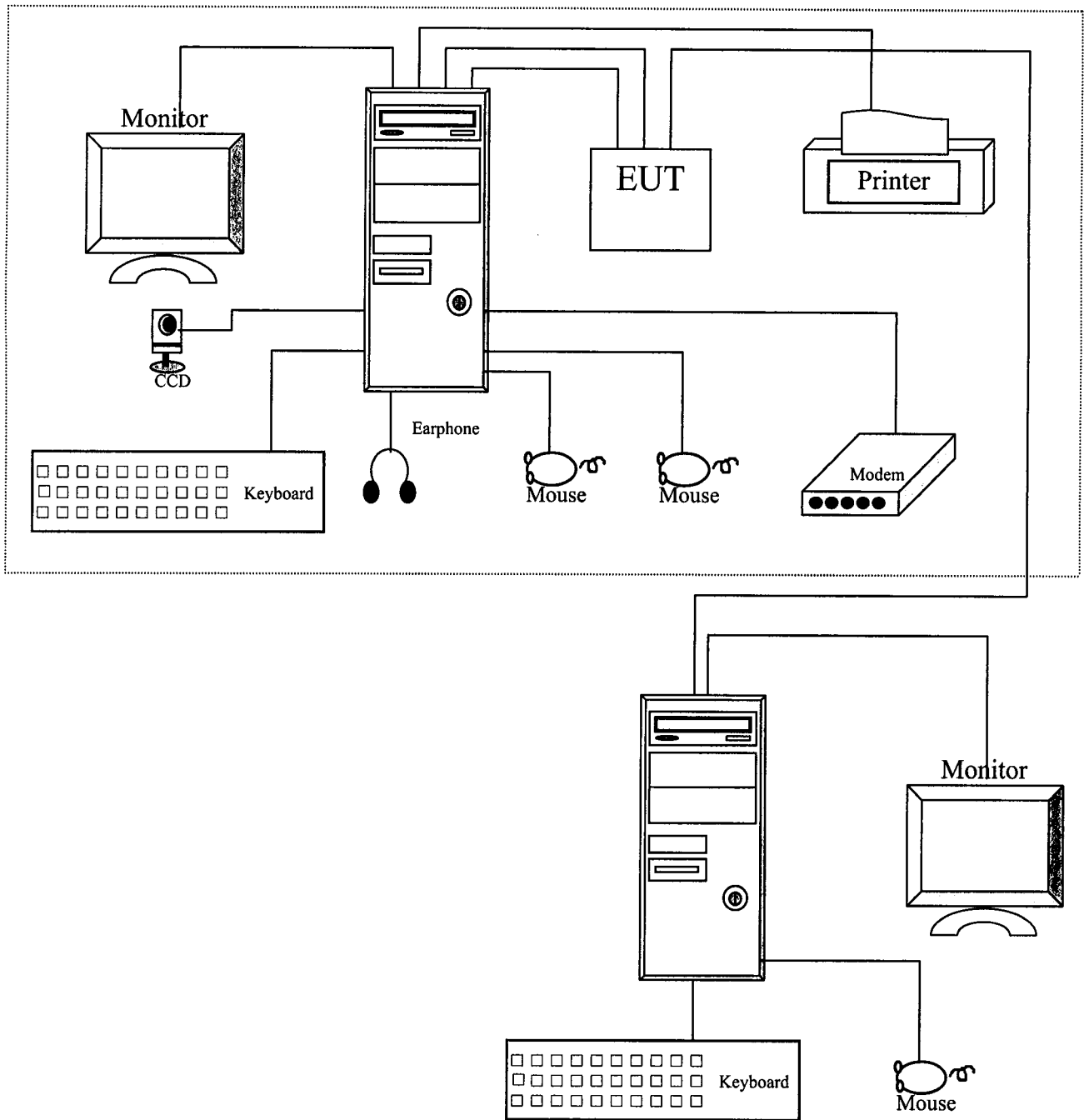
Model Number : PH136  
Serial Number : N/A  
Manufacturer : BSD  
Data Cable : Shielded, 1.2m

### 1.2.13 Earphone

Model Number : PH136  
Serial Number : N/A  
Manufacturer : BSD  
Data Cable : Shielded, 1.2m

1.2.14 UTP CAT5 : Non-Shielded, 2m, 1pc

### 1.3 EUT Configuration





## 1.4 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 1.4.1 Setup the EUT and simulators as shown on 1.3.
- 1.4.2 Turn on the power of all equipment.
- 1.4.3 Boot the PC from Hard Disk .
- 1.4.4 Data will communicate between personal computer and partner personal computer through EUT that is within PC.
- 1.4.5 The personal computer's and partner computer's monitor will show the transmitting and receiving characteristics when the communication is success.
- 1.4.6 Repeat the above procedure 1.4.4 to 1.4.7

## 1.5 Test performed

Conducted emissions were investigated over the frequency range from **0.15MHz to 30MHz** using a receiver bandwidth of 9kHz.

Radiated emissions were investigated over the frequency range from **30MHz to 1000MHz** using a receiver bandwidth of 120kHz. Radiated testing was performed at an antenna to EUT distance of 10 meters .

## 1.6 Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: November 3, 1998 File on  
Federal Communications Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046  
Reference 31040/SIT1300F2



September 30, 1998 Accreditation on NVLAP  
NVLAP Lab Code: 200347-0

February 23, 1999 Accreditation on DNV  
Statement No. : 413-99-LAB11



December 8, 1998 Registration on VCCI  
Registration No. for No.2 Shielded Room C-858  
Registration No. for No.1 Open Area Test Site R-823  
Registration No. for No.2 Open Area Test Site R-835



January 04, 1999 Accreditation on TÜV Rheinland  
Certificate No.: I9865712-9901



Name of firm : QuieTek Corporation

Site location : No.75-1, Wang-Yeh Valley, Yung-Hsing Tsuen,  
Chiung-Lin, Hsin-Chu County, Taiwan, R.O.C.

## 2. Conducted Emission

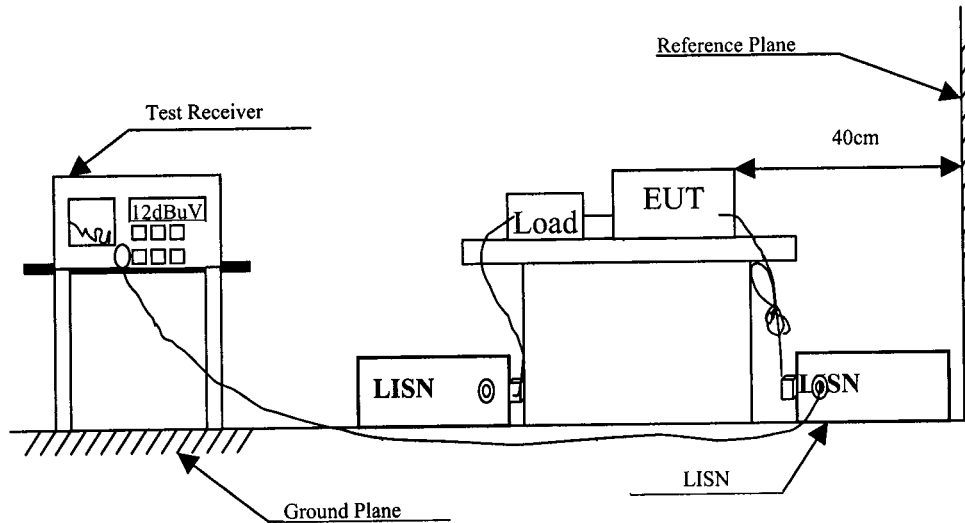
### 2.1 Test Equipment List

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal..	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 1999	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 1999	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 1999	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	N0.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

### 2.2 Test Setup



### 2.3 Limits

CISPR 22 Limits (dBuV)					FCC Part 15 Subpart B (dBuV)				
Frequency MHz	Class A		Class B		Frequency MHz	Class A		Class B	
	QP	AV	MHz	AV		uV	dBuV	uV	dBuV
0.15 - 0.50	79	66	66-56	56-46	0.45-1.705	1000	60.0	250	48.0
0.50-5.0	73	60	56	46	1.705-30	3000	69.5	250	48.0
5.0 - 30	73	60	60	50					

Remarks : In the above table, the tighter limit applies at the band edges.

## 2.4 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 /1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

## 2.5 Test Results

The conducted emission from the EUT is measured and shown in attachment 1 of test report. The acceptance criterion was met and the EUT passed the test.



### 3. Radiated Emission

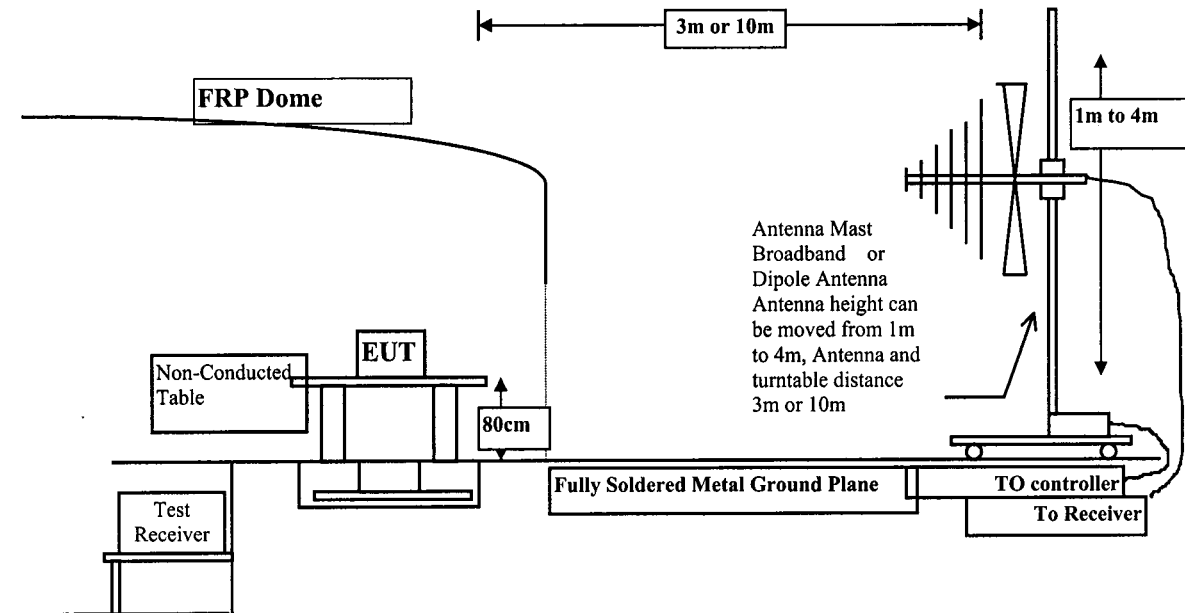
#### 3.1 Test Equipment

The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 1999
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 1999
		Pre-Amplifier	HP	8447D/3307A01812	May, 1999
	X	Bilog Antenna	Chase	CBL6112B / 12452	Sep..., 1999
	X	Horn Antenna	EM	EM6917 / 103325	May, 1999
Site # 2	X	Test Receiver	R & S	ESCS 30 / 825442/17	May, 1999
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 1999
		Pre-Amplifier	HP	8447D/3307A01814	May, 1999
	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep..., 1999
	X	Horn Antenna	EM	EM6917 / 103325	May, 1999

- Note:
1. All equipment upon which need to calibrated are with calibration period of 1 year.
  - 2.. Mark "X" test instruments are used to measure the final test results.

#### 3.2 Test Setup



### 3.3 Limits

CISPR 22 Limits (dBuV)					FCC Part 15 Subpart B (dBuV)				
Frequency MHz	Class A		Class B		Frequency	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m		uV	dBuV	uV	dBuV
30 – 230	10	40	10	30	30 – 88	90	39	100	40.0
230 – 1000	10	47	10	37	88 – 216	150	43.5	150	43.5
					216 – 960	210	46.5	200	46.0
					960 - 2000	300	49.5	500	54.0

Remark: 1. The tighter limit shall apply at the edge between two frequency bands.

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. RF Line Voltage (dBuV) = 20 log RF Line Voltage (uV)

### 3.4 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 10 meters . The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 /1992 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30 ) is 120 kHz.

### 3.5 Test Results

The radiated emission from the EUT is measured and shown in attachment 1 of test report. The acceptance criterion was met and the EUT passed the test.

#### 4. EMI Reduction Method During Compliance Testing

No modification was made during testing.

## 5. Attachment

Attachment 1: Summary of Test Results                      Number of Pages: 9

Attachment 2: EUT Test Photographs                      Number of Pages: 4

Attachment 3: EUT detail photographs                      Number of Pages: 7



## Attachment 1 : Summary of Test Results

The test results in the emission were performed according to the requirements of measurement standard and process. QuieTek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The test data of the emission are listed as the attached data.

All the tests were carried out with the EUT in normal operation, which was defined as:

Mode 1 : 100Mbps

Mode 2 : 10Mbps

**The EUT passed all the tests.**

The uncertainty is calculated in accordance with NAMAS NIS 81, The total uncertainty for this test is as follows:

➤ **Emission Test**

- Uncertainty in the Conducted Emission Test:  $< \pm 2.0$  dB
- Uncertainty in the field strength measured:  $< \pm 4.0$  dB

## CONDUCTED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level Line1 dBuV	Measurement Level Line1 dBuV	Limits dBuV
*0.198	0.01	0.10	53.93	54.04	63.69
0.294	0.04	0.10	33.72	33.86	60.41
2.283	0.15	0.14	41.36	41.65	56.00
4.021	0.19	0.16	40.87	41.22	56.00
4.824	0.20	0.17	40.75	41.12	56.00
25.001	0.38	0.53	32.51	33.42	60.00

**Average:**

0.198	0.01	0.10	50.10	50.21	53.69
0.294	0.04	0.10	25.70	25.84	50.41
2.283	0.15	0.14	23.50	23.79	46.00
4.021	0.19	0.16	23.20	23.55	46.00
4.824	0.20	0.17	23.10	23.47	46.00
25.001	0.38	0.53	28.40	29.31	50.00

**Remarks :**

1. " \* " means that this data is the worst emission level.

## CONDUCTED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level Line2 dBuV	Measurement Level Line2 dBuV	Limits dBuV
*0.201	0.02	0.10	54.67	54.79	63.59
1.198	0.11	0.11	39.34	39.56	56.00
1.972	0.14	0.13	43.16	43.43	56.00
2.960	0.17	0.15	43.41	43.72	56.00
3.986	0.19	0.16	43.84	44.19	56.00
4.275	0.19	0.16	42.17	42.52	56.00

**Average:**

0.201	0.02	0.10	50.60	50.72	53.57
1.198	0.11	0.11	25.70	25.92	46.00
1.972	0.14	0.13	25.00	25.27	46.00
2.960	0.17	0.15	25.00	25.31	46.00
3.986	0.19	0.16	26.20	26.55	46.00
4.275	0.19	0.16	25.20	25.55	46.00

**Remarks :**

1. " \* " means that this data is the worst emission level.

## CONDUCTED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level Line1 dBuV	Measurement Level Line1 dBuV	Limits dBuV
*0.235	0.02	0.10	47.52	47.64	62.28
0.359	0.05	0.10	31.17	31.32	58.75
2.240	0.15	0.13	40.52	40.81	56.00
3.898	0.18	0.16	37.53	37.87	56.00
5.077	0.20	0.17	34.87	35.24	60.00
10.006	0.28	0.20	29.09	29.57	60.00

**Average:**

0.235	0.02	0.10	43.90	44.02	52.27
0.359	0.05	0.10	24.80	24.95	48.75
2.240	0.15	0.13	20.60	20.89	46.00
3.898	0.18	0.16	18.70	19.04	46.00
5.077	0.20	0.17	18.20	18.57	50.00
10.006	0.28	0.20	15.30	15.78	50.00

**Remarks :**

1. " \* " means that this data is the worst emission level.

## CONDUCTED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
MHz	Loss	Factor	Line2	Line2	
	dB	dB	dBuV	dBuV	dBuV
0.230	0.02	0.10	47.21	47.33	62.44
1.035	0.10	0.10	39.07	39.27	56.00
*2.214	0.15	0.13	42.39	42.67	56.00
3.702	0.18	0.16	40.39	40.73	56.00
4.857	0.20	0.17	38.60	38.97	56.00
10.002	0.28	0.20	29.51	29.99	60.00

**Average:**

0.230	0.02	0.10	40.20	40.32	52.45
1.035	0.10	0.10	20.90	21.10	46.00
2.214	0.15	0.13	22.70	22.98	46.00
3.702	0.18	0.16	20.70	21.04	46.00
4.857	0.20	0.17	21.70	22.07	46.00
10.002	0.28	0.20	14.20	14.68	50.00

**Remarks :**

1. " \* " means that this data is the worst emission level.

## RADIATED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 1 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Horizontal	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
80.000	1.64	8.20	0.00	12.25	22.08	7.92	30.00	394	67
160.000	2.40	10.32	0.00	8.15	20.87	9.13	30.00	394	93
200.000	2.78	9.30	0.00	10.41	22.49	7.51	30.00	394	202
220.020	2.98	9.38	0.00	10.00	22.37	7.63	30.00	394	104
250.012	3.27	12.61	0.00	12.99	28.87	8.13	37.00	394	91
320.000	3.86	13.59	0.00	9.93	27.38	9.62	37.00	394	84
480.011	4.69	17.00	0.00	8.97	30.66	6.34	37.00	179	184
520.015	4.90	17.32	0.00	3.96	26.18	10.82	37.00	171	192
580.060	5.22	18.55	0.00	5.76	29.53	7.47	37.00	171	203
*625.034	5.44	19.30	0.00	9.34	34.09	2.91	37.00	145	115
675.035	5.71	19.11	0.00	6.84	31.65	5.35	37.00	135	7
750.041	6.10	19.99	0.00	7.25	33.34	3.66	37.00	128	153

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

## RADIATED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 1 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Vertical	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
40.000	1.24	12.84	0.00	8.74	22.82	7.18	30.00	100	65
80.000	1.64	7.12	0.00	19.68	28.44	1.56	30.00	100	122
160.000	2.40	10.28	0.00	11.04	23.72	6.28	30.00	100	54
*200.000	2.78	9.07	0.00	16.25	28.11	1.89	30.00	100	3
250.000	3.27	12.26	0.00	10.54	26.07	10.93	37.00	100	28
320.000	3.86	14.13	0.00	9.37	27.36	9.64	37.00	100	103
560.000	5.11	18.54	0.00	3.12	26.77	10.23	37.00	308	200
600.000	5.31	18.42	0.00	3.02	26.76	10.24	37.00	244	72
625.034	5.44	18.50	0.00	8.00	31.95	5.05	37.00	279	68

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

## RADIATED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 2 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Horizontal	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
80.000	1.64	8.20	0.00	12.55	22.38	7.62	30.00	394	60
160.000	2.40	10.32	0.00	9.55	22.27	7.73	30.00	394	87
200.000	2.78	9.30	0.00	10.01	22.09	7.91	30.00	394	146
210.000	2.89	9.49	0.00	7.24	19.62	10.38	30.00	394	98
240.025	3.17	11.32	0.00	8.31	22.80	14.20	37.00	394	203
320.033	3.86	13.59	0.00	12.63	30.08	6.92	37.00	394	78
400.000	4.28	15.85	0.00	12.37	32.50	4.50	37.00	276	170
480.055	4.69	17.00	0.00	9.47	31.16	5.84	37.00	228	141
*600.035	5.31	18.85	0.00	8.69	32.85	4.15	37.00	164	172
675.000	5.71	19.11	0.00	3.10	27.91	9.09	37.00	128	162
700.000	5.83	19.19	0.00	3.96	28.98	8.02	37.00	128	4
800.045	6.35	20.19	0.00	5.77	32.31	4.69	37.00	100	109

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss



## RADIATED EMISSION DATA

Date of Test : September 16, 1999 EUT : NAT ROUTER  
 Test Mode : Mode 2 Test Site : No.1 Open Test Site

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement Vertical	Margin	Limit	Ant	Turn
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
40.000	1.24	12.84	0.00	9.12	23.20	6.80	30.00	100	120
80.000	1.64	7.12	0.00	17.63	26.39	3.61	30.00	100	203
160.018	2.40	10.28	0.00	11.02	23.70	6.30	30.00	100	20
*200.012	2.78	9.07	0.00	14.73	26.59	3.41	30.00	100	14
210.000	2.89	9.35	0.00	11.64	23.87	6.13	30.00	100	47
240.000	3.17	11.22	0.00	10.06	24.45	12.55	37.00	100	20
320.033	3.86	14.13	0.00	13.03	31.02	5.98	37.00	100	4
400.017	4.28	16.05	0.00	12.51	32.84	4.16	37.00	100	86
675.032	5.71	18.50	0.00	3.10	27.31	9.69	37.00	243	138

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " \* ", means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss