

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: $< \pm 2.0 \text{ dB}$
- Uncertainty in the field strength measured: $< \pm 4.0 \text{ dB}$

CONDUCTED EMISSION DATA

Date of Test : February 29, 2000 EUT : Fast Ethernet PC Card
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
* 0.177	0.01	0.10	50.20	50.31	64.64
0.295	0.04	0.10	37.97	38.11	60.38
0.413	0.05	0.10	33.70	33.85	57.60
0.530	0.07	0.10	32.87	33.04	56.00
0.710	0.08	0.10	29.83	30.01	56.00
4.780	0.20	0.17	30.88	31.24	56.00

Average:

0.176	0.01	0.10	42.10	42.21	54.67
0.295	0.04	0.10	28.10	28.24	50.38
0.412	0.05	0.10	30.80	30.95	47.61
0.530	0.07	0.10	31.50	31.67	46.00
0.710	0.08	0.10	28.50	28.68	46.00
4.780	0.20	0.17	27.00	27.36	46.00

Remarks :

1. “ * ” means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : February 29, 2000 EUT : Fast Ethernet PC Card
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
* 0.177	0.01	0.10	48.80	48.91	64.64
0.236	0.02	0.10	40.23	40.35	62.23
0.296	0.04	0.10	35.29	35.43	60.36
0.533	0.07	0.10	30.56	30.73	56.00
1.475	0.12	0.12	32.12	32.36	56.00
4.897	0.20	0.17	34.35	34.72	56.00

Average:

0.176	0.01	0.10	41.90	42.01	54.67
0.236	0.02	0.10	33.60	33.72	52.24
0.296	0.04	0.10	27.90	28.04	50.35
0.532	0.07	0.10	29.90	30.07	46.00
1.475	0.12	0.12	31.60	31.84	46.00
4.897	0.20	0.17	27.40	27.77	46.00

Remarks :

1. “ * ” means that this data is the worst emission level.

CONDUCTED EMISSION DATA

Date of Test : February 29, 2000 EUT : Fast Ethernet PC Card
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
* 0.175	0.01	0.10	51.00	51.11	64.71
0.236	0.02	0.10	41.94	42.06	62.24
0.353	0.05	0.10	37.73	37.88	58.89
0.529	0.07	0.10	32.75	32.92	56.00
2.002	0.14	0.13	31.67	31.94	56.00
20.002	0.35	0.45	44.19	45.00	60.00

Average:

0.175	0.01	0.10	42.90	43.01	54.72
0.236	0.02	0.10	35.90	36.02	52.24
0.353	0.05	0.10	30.40	30.55	48.89
0.529	0.07	0.10	31.20	31.37	46.00
2.001	0.14	0.13	29.60	29.87	46.00
20.001	0.35	0.45	33.50	34.31	50.00

Remarks :

1. “ * ” means that this data is the worst emission level.



CONDUCTED EMISSION DATA

Date of Test : February 29, 2000 EUT : Fast Ethernet PC Card
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.175	0.01	0.10	48.91	49.02	64.73
0.235	0.02	0.10	40.65	40.77	62.29
0.526	0.07	0.10	26.81	26.98	56.00
2.591	0.16	0.14	32.68	32.98	56.00
3.771	0.18	0.16	33.33	33.67	56.00
* 20.002	0.35	0.45	43.87	44.68	60.00

Average:

0.175	0.01	0.10	41.80	41.91	54.72
0.235	0.02	0.10	33.90	34.02	52.27
0.526	0.07	0.10	25.80	25.97	46.00
2.591	0.16	0.14	31.30	31.60	46.00
3.771	0.18	0.16	28.30	28.64	46.00
20.001	0.35	0.45	33.10	33.91	50.00

Remarks :

1. “ * ” means that this data is the worst emission level.

RADIATED EMISSION DATA

Date of Test	:	February 29, 2000	EUT	Fast Ethernet PC Card
Test Mode	:	Mode 1	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Horizontal				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
75.000	1.58	6.83	0.00	6.59	15.00	15.00	30.00	401	46
125.000	2.07	11.49	0.00	7.35	20.91	9.09	30.00	401	85
150.000	2.31	10.43	0.00	6.37	19.11	10.89	30.00	401	104
200.000	2.78	9.30	0.00	13.66	25.74	4.26	30.00	401	97
*225.000	3.03	9.83	0.00	13.52	26.38	3.62	30.00	401	94
250.000	3.27	12.61	0.00	12.48	28.36	8.64	37.00	401	93

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	:	February 29, 2000	EUT	Fast Ethernet PC Card
Test Mode	:	Mode 1	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Vertical				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
50.000	1.35	7.39	0.00	16.60	25.34	4.66	30.00	225	192
75.000	1.58	6.83	0.00	14.89	23.30	6.70	30.00	225	110
125.000	2.07	11.49	0.00	11.34	24.90	5.10	30.00	99	6
150.000	2.31	10.43	0.00	13.58	26.32	3.68	30.00	99	28
*200.000	2.78	9.07	0.00	15.03	26.89	3.11	30.00	99	24
225.000	3.03	9.68	0.00	9.74	22.44	7.56	30.00	225	145

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	:	February 29, 2000	EUT	Fast Ethernet PC Card
Test Mode	:	Mode 2	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Horizontal				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
50.000	1.35	7.93	0.00	2.35	11.63	18.37	30.00	401	158
*125.000	2.07	11.84	0.00	7.95	21.86	8.14	30.00	401	134
150.000	2.31	10.72	0.00	4.97	18.00	12.00	30.00	401	123
200.000	2.78	9.30	0.00	7.71	19.79	10.21	30.00	401	82
225.000	3.03	9.83	0.00	7.61	20.47	9.53	30.00	401	103
275.000	3.51	12.91	0.00	8.45	24.88	12.12	37.00	401	91

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	:	February 29, 2000	EUT	Fast Ethernet PC Card
Test Mode	:	Mode 2	Test Site	No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Vertical				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
* 50.000	1.35	7.39	0.00	16.54	25.28	4.72	30.00	99	156
75.000	1.58	6.83	0.00	11.08	19.49	10.51	30.00	99	154
125.000	2.07	11.49	0.00	10.54	24.10	5.90	30.00	99	28
150.000	2.31	10.43	0.00	12.27	25.01	4.99	30.00	99	37
200.000	2.78	9.07	0.00	8.60	20.46	9.54	30.00	99	18
225.000	3.03	9.68	0.00	3.81	16.51	13.49	30.00	99	22

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