

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:

Ø 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 : December 6, 1999 EUT : Fast Ethernet LAN 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
=====					
* 0.201	0.02	0.10	54.46	54.58	63.55
0.270	0.03	0.10	49.72	49.85	61.13
0.338	0.04	0.10	49.15	49.29	59.26
0.471	0.06	0.10	45.71	45.87	56.50
4.787	0.20	0.17	36.32	36.69	56.00
15.921	0.33	0.37	36.09	36.79	60.00
Average:					
0.201	0.02	0.10	43.40	43.52	53.57
0.269	0.03	0.10	42.60	42.73	51.15
0.338	0.04	0.10	38.80	38.94	49.25
0.471	0.06	0.10	38.70	38.86	46.50
4.787	0.20	0.17	31.40	31.77	46.00
15.921	0.33	0.37	33.00	33.70	50.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : December 6, 1999 EUT : Fast Ethernet LAN 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
=====					
* 0.202	0.02	0.10	56.23	56.35	63.54
0.271	0.03	0.10	50.07	50.20	61.08
0.472	0.06	0.10	46.19	46.35	56.47
0.607	0.07	0.10	39.49	39.66	56.00
4.855	0.20	0.17	36.81	37.18	56.00
16.186	0.33	0.38	36.86	37.57	60.00

Average:

0.202	0.02	0.10	44.00	44.12	53.53
0.271	0.03	0.10	42.40	42.53	51.09
0.472	0.06	0.10	38.70	38.86	46.48
0.607	0.07	0.10	35.50	35.67	46.00
4.855	0.20	0.17	31.90	32.27	46.00
16.186	0.33	0.38	33.40	34.11	50.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : December 6, 1999 EUT : Fast Ethernet LAN 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
=====					
* 0.204	0.02	0.10	53.67	53.79	53.45
0.271	0.03	0.10	50.74	50.87	51.09
0.406	0.05	0.10	46.58	46.73	47.74
0.540	0.07	0.10	40.07	40.24	46.00
3.974	0.19	0.16	36.64	36.99	46.00
16.174	0.33	0.37	35.50	36.20	50.00

Average:

0.204	0.02	0.10	41.90	42.02	53.45
0.271	0.03	0.10	42.30	42.43	51.09
0.406	0.05	0.10	37.90	38.05	47.73
0.540	0.07	0.10	32.80	32.97	46.00
3.974	0.19	0.16	29.20	29.55	46.00
16.174	0.33	0.37	32.70	33.40	50.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : December 6, 1999 EUT : Fast Ethernet LAN 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
=====					
* 0.203	0.02	0.10	56.19	56.31	63.47
0.268	0.03	0.10	51.10	51.23	61.18
0.337	0.04	0.10	50.48	50.62	59.27
0.404	0.05	0.10	47.12	47.27	57.78
0.473	0.06	0.10	46.68	46.84	56.47
15.907	0.33	0.37	35.47	36.17	60.00

Average:

0.203	0.02	0.10	42.90	43.02	53.49
0.268	0.03	0.10	42.70	42.83	51.18
0.337	0.04	0.10	38.60	38.74	49.28
0.404	0.05	0.10	38.90	39.05	47.77
0.473	0.06	0.10	38.30	38.46	46.46
15.908	0.33	0.37	32.30	33.00	50.00

Remarks :

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

RADIATED EMISSION DATA

Date of Test	:	December 6, 1999	EUT	Fast Ethernet LAN 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
=====									
125.000	2.07	11.84	0.00	1.99	15.90	14.10	30.00	401	135
150.000	2.31	10.72	0.00	5.36	18.39	11.61	30.00	401	184
*175.000	2.55	9.76	0.00	11.01	23.32	6.68	30.00	401	142
200.000	2.78	9.30	0.00	10.56	22.64	7.36	30.00	401	142
225.000	3.03	9.83	0.00	8.42	21.28	8.72	30.00	401	83
300.000	3.76	13.36	0.00	12.35	29.46	7.54	37.00	401	54

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	:	December 6, 1999	EUT	Fast Ethernet LAN 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
=====									
125.000	2.07	11.49	0.00	7.52	21.08	8.92	30.00	104	24
*150.000	2.31	10.43	0.00	11.42	24.16	5.84	30.00	104	54
175.000	2.55	9.32	0.00	10.24	22.11	7.89	30.00	104	154
200.000	2.78	9.07	0.00	9.25	21.11	8.89	30.00	104	56
250.000	3.27	12.26	0.00	9.45	24.98	12.02	37.00	104	47
300.000	3.76	13.56	0.00	11.24	28.55	8.45	37.00	105	84

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	:	December 6, 1999	EUT	Fast Ethernet LAN 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
=====									
125.000	2.07	11.84	0.00	2.24	16.15	13.85	30.00	401	143
150.000	2.31	10.72	0.00	6.81	19.84	10.16	30.00	401	193
*175.000	2.55	9.76	0.00	11.11	23.42	6.58	30.00	401	164
200.000	2.78	9.30	0.00	9.57	21.65	8.35	30.00	401	174
225.000	3.03	9.83	0.00	7.33	20.19	9.81	30.00	401	109
250.000	3.27	12.61	0.00	9.92	25.80	11.20	37.00	401	90
300.000	3.76	13.36	0.00	11.64	28.75	8.25	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	:	December 6, 1999	EUT	Fast Ethernet LAN 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
=====									
125.000	2.07	11.49	0.00	8.68	22.24	7.76	30.00	104	124
*150.000	2.31	10.43	0.00	12.35	25.09	4.91	30.00	104	98
175.000	2.55	9.32	0.00	11.92	23.79	6.21	30.00	104	203
200.000	2.78	9.07	0.00	10.28	22.14	7.86	30.00	104	29
225.000	3.03	9.68	0.00	9.37	22.07	7.93	30.00	104	156
250.000	3.27	12.26	0.00	8.43	23.96	13.04	37.00	104	87
275.000	3.51	12.64	0.00	10.99	27.14	9.86	37.00	104	203
300.000	3.76	13.56	0.00	10.65	27.96	9.04	37.00	104	194
325.000	3.88	14.29	0.00	7.29	25.46	11.54	37.00	105	77
350.000	4.01	14.80	0.00	8.80	27.61	9.39	37.00	105	97

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