

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: 10Mbps

Mode 2: 100Mbps

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 : December 13, 1999 EUT : 10/100 Cardbus 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
=====					
0.155	0.00	0.10	46.59	46.69	65.75
0.258	0.03	0.10	36.75	36.88	61.51
0.990	0.10	0.10	27.65	27.85	56.00
*2.865	0.17	0.15	37.40	37.71	56.00
2.865	0.17	0.15	37.21	37.52	56.00
9.264	0.27	0.20	38.15	38.62	60.00
19.707	0.35	0.45	39.37	40.17	60.00

Average:

0.155	0.00	0.10	41.30	41.40	55.73
0.258	0.03	0.10	33.90	34.03	51.50
0.990	0.10	0.10	24.00	24.20	46.00
2.865	0.17	0.15	31.20	31.51	46.00
9.260	0.27	0.20	32.30	32.77	50.00
19.707	0.35	0.45	37.80	38.60	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : December 13, 1999 EUT : 10/100 Cardbus 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
=====					
0.161	0.00	0.10	44.08	44.18	65.41
0.209	0.02	0.10	43.35	43.47	63.23
0.313	0.04	0.10	35.00	35.14	59.90
*3.807	0.18	0.16	39.17	39.51	56.00
9.329	0.27	0.20	36.55	37.02	60.00
20.260	0.36	0.46	40.61	41.42	60.00

Average:

0.161	0.00	0.10	43.90	44.00	55.41
0.209	0.02	0.10	34.00	34.12	53.24
0.313	0.04	0.10	25.60	25.74	49.89
3.807	0.18	0.16	31.30	31.64	46.00
9.329	0.27	0.20	29.40	29.87	50.00
20.260	0.36	0.46	37.90	38.71	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : December 13, 1999 EUT : 10/100 Cardbus 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
0.157	0.00	0.10	47.54	47.64	65.62
0.209	0.02	0.10	42.54	42.66	63.26
0.455	0.06	0.10	33.85	34.01	56.78
0.638	0.08	0.10	35.70	35.88	56.00
0.912	0.10	0.10	35.64	35.84	56.00
*2.869	0.17	0.15	40.54	40.85	56.00

Average:

0.157	0.00	0.10	40.30	40.40	55.62
0.209	0.02	0.10	32.90	33.02	53.24
0.455	0.06	0.10	32.90	33.06	46.78
0.638	0.08	0.10	34.90	35.08	46.00
0.912	0.10	0.10	34.70	34.90	46.00
2.869	0.17	0.15	27.10	27.41	46.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : December 13, 1999 EUT : 10/100 Cardbus 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
=====					
*0.158	0.00	0.10	47.54	47.64	65.56
0.212	0.02	0.10	42.51	42.63	63.14
0.457	0.06	0.10	33.91	34.07	56.74
0.640	0.08	0.10	35.21	35.39	56.00
0.913	0.10	0.10	35.88	36.08	56.00
7.508	0.25	0.19	41.06	41.49	60.00

Average:

0.158	0.00	0.10	38.30	38.40	55.57
0.212	0.02	0.10	30.80	30.92	53.13
0.457	0.06	0.10	32.90	33.06	46.75
0.640	0.08	0.10	34.90	35.08	46.00
0.913	0.10	0.10	35.00	35.20	46.00
7.508	0.25	0.19	34.80	35.23	50.00

Remarks :

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



RADIATED EMISSION DATA

Date of Test : December 13, 1999 EUT : 10/100 Cardbus 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
=====									
120.010	2.02	12.02	0.00	2.61	16.65	13.35	30.00 399	203	
160.000	2.40	10.32	0.00	3.05	15.77	14.23	30.00 399	168	
220.003	2.98	9.38	0.00	2.39	14.76	15.24	30.00 399	41	
240.003	3.17	11.32	0.00	6.11	20.60	16.40	37.00 399	123	
263.717	3.40	14.08	0.00	3.07	20.55	16.45	37.00 399	18	
296.195	3.71	13.15	0.00	3.20	20.06	16.94	37.00 399	131	
320.000	3.86	13.59	0.00	1.52	18.97	18.03	37.00 399	173	
*400.003	4.28	15.85	0.00	5.43	25.56	11.44	37.00 336	88	
480.003	4.69	17.00	0.00	3.24	24.93	12.07	37.00 336	117	
526.985	4.93	17.56	0.00	1.85	24.34	12.66	37.00 198	19	

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 13, 1999 EUT : 10/100 Cardbus 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
=====									
*40.000	1.24	12.84	0.00	10.78	24.86	5.14	30.00	104	104
60.000	1.44	6.00	0.00	14.62	22.06	7.94	30.00	104	202
80.000	1.64	7.12	0.00	10.29	19.05	10.95	30.00	104	40
120.000	2.02	11.56	0.00	4.99	18.57	11.43	30.00	104	76
160.000	2.40	10.28	0.00	5.68	18.36	11.64	30.00	104	90
180.000	2.60	9.21	0.00	5.20	17.01	12.99	30.00	104	133
200.000	2.78	9.07	0.00	8.39	20.25	9.75	30.00	104	118
240.000	3.17	11.22	0.00	7.31	21.70	15.30	37.00	104	115
400.000	4.28	16.05	0.00	2.28	22.61	14.39	37.00	104	29

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 13, 1999 EUT : 10/100 Cardbus 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	4.14	13.42	16.58	30.00	399	142
*113.107	1.94	11.81	0.00	6.30	20.05	9.95	30.00	399	67
143.245	2.24	11.16	0.00	4.71	18.11	11.89	30.00	399	102
164.602	2.44	9.55	0.00	1.29	13.28	16.72	30.00	399	86
197.500	2.76	9.10	0.00	1.33	13.19	16.81	30.00	399	98
230.372	3.07	10.32	0.00	7.49	20.89	16.11	37.00	399	2
250.000	3.27	12.61	0.00	1.22	17.10	19.90	37.00	399	76
299.640	3.75	13.33	0.00	4.44	21.52	15.48	37.00	399	157
366.242	4.10	14.78	0.00	1.74	20.62	16.38	37.00	399	14

Remarks:

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RADIATED EMISSION DATA

Date of Test : December 13, 1999 EUT : 10/100 Cardbus 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	17.55	26.29	3.71	30.00	104	10
66.220	1.50	5.83	0.00	12.22	19.55	10.45	30.00	104	203
113.290	1.95	11.39	0.00	6.84	20.18	9.82	30.00	104	80
200.000	2.78	9.07	0.00	7.58	19.44	10.56	30.00	104	56
233.070	3.11	10.51	0.00	6.34	19.96	17.04	37.00	104	68
325.000	3.88	14.29	0.00	4.70	22.87	14.13	37.00	104	133
400.000	4.28	16.05	0.00	2.26	22.59	14.41	37.00	104	45
596.930	5.30	18.51	0.00	1.16	24.97	12.03	37.00	399	31

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

