

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 : PC+POTRANS(ADAPTER)

Mode 2 : PC+KENTEX(ADAPTER)

Mode 3 : MAC (PC)+POTRANS(ADAPTER)

Mode 4 : MAC (PC)+KENTEX(ADAPTER)

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 : November 15, 1999 EUT : Digital Camera
 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

0.251	0.03	0.10	40.09	40.22	61.72
0.378	0.05	0.10	39.39	39.54	58.33
*0.502	0.06	0.10	38.53	38.69	56.00
0.752	0.08	0.10	36.03	36.21	56.00
0.880	0.09	0.10	39.91	40.10	56.00
1.259	0.11	0.11	40.19	40.41	56.00

Average:

0.251	0.03	0.10	35.00	35.13	51.72
0.378	0.05	0.10	35.00	35.15	48.33
0.502	0.06	0.10	33.40	33.56	46.00
0.752	0.08	0.10	29.20	29.38	46.00
0.880	0.09	0.10	33.10	33.29	46.00
1.259	0.11	0.11	33.20	33.42	46.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV

0.251	0.03	0.10	42.39	42.52	61.73
0.379	0.05	0.10	42.09	42.24	58.31
0.506	0.06	0.10	40.49	40.65	56.00
0.756	0.09	0.10	38.69	38.88	56.00
0.874	0.09	0.10	40.49	40.68	56.00
*1.264	0.11	0.11	40.55	40.77	56.00

Average:

0.251	0.03	0.10	39.30	39.43	51.73
0.379	0.05	0.10	38.60	38.75	48.31
0.506	0.06	0.10	35.80	35.96	46.00
0.756	0.09	0.10	33.50	33.69	46.00
0.874	0.09	0.10	27.20	27.39	46.00
1.264	0.11	0.11	34.30	34.52	46.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 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

=====					
*0.189	0.01	0.10	51.91	52.02	64.10
0.234	0.02	0.10	45.79	45.91	62.30
0.282	0.03	0.10	41.49	41.62	60.77
0.328	0.04	0.10	38.59	38.73	59.50
0.375	0.05	0.10	34.25	34.40	58.38
0.421	0.05	0.10	39.41	39.56	57.42

Average:

0.189	0.01	0.10	38.30	38.41	54.10
0.234	0.02	0.10	34.10	34.22	52.30
0.282	0.03	0.10	29.40	29.53	50.77
0.328	0.04	0.10	29.50	29.64	49.50
0.375	0.05	0.10	28.70	28.85	48.38
0.421	0.05	0.10	33.50	33.65	47.42

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 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

=====					
*0.187	0.01	0.10	50.15	50.26	64.16
0.198	0.01	0.10	37.37	37.48	63.69
0.232	0.02	0.10	44.61	44.73	62.38
0.280	0.03	0.10	40.83	40.96	60.82
0.325	0.04	0.10	39.25	39.39	59.57
0.420	0.05	0.10	40.33	40.48	57.46

Average:

0.187	0.01	0.10	36.40	36.51	54.16
0.198	0.01	0.10	15.90	16.01	53.69
0.232	0.02	0.10	32.50	32.62	52.38
0.280	0.03	0.10	31.70	31.83	50.82
0.325	0.04	0.10	32.80	32.94	49.57
0.420	0.05	0.10	36.90	37.05	47.46

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 3 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV

=====					
*0.189	0.01	0.10	51.90	52.01	64.09
0.233	0.02	0.10	47.05	47.17	62.36
0.281	0.03	0.10	44.04	44.17	60.78
0.422	0.05	0.10	36.17	36.32	57.42
2.198	0.15	0.13	33.79	34.07	56.00
3.579	0.18	0.16	39.80	40.13	56.00

Average:

0.189	0.01	0.10	40.70	40.81	54.08
0.233	0.02	0.10	37.70	37.82	52.34
0.281	0.03	0.10	34.40	34.53	50.79
0.421	0.05	0.10	33.70	33.85	47.43
2.198	0.15	0.13	28.60	28.88	46.00
3.579	0.18	0.16	37.20	37.53	46.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test	:	November 15, 1999	EUT	:	Digital Camera
Test Mode	:	Mode 3	Detect Mode	:	Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB		dB	dBuV	dBuV

=====					
0.152	0.00	0.10	50.35	50.45	65.87
*0.185	0.01	0.10	51.52	51.63	64.26
0.421	0.05	0.10	39.81	39.96	57.44
0.928	0.10	0.10	33.73	33.93	56.00
2.141	0.15	0.13	35.66	35.94	56.00
4.976	0.20	0.17	35.60	35.97	56.00

Average:

0.152	0.00	0.10	28.10	28.20	55.89
0.185	0.01	0.10	36.30	36.41	54.26
0.421	0.05	0.10	35.00	35.15	47.43
0.928	0.10	0.10	31.50	31.70	46.00
2.140	0.15	0.13	32.00	32.28	46.00
4.976	0.20	0.17	32.60	32.97	46.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 4 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
0.156	0.00	0.10	42.92	43.02	65.67
0.248	0.03	0.10	40.75	40.88	61.82
0.374	0.05	0.10	40.04	40.19	58.41
0.503	0.06	0.10	37.71	37.87	56.00
*0.875	0.09	0.10	40.81	41.00	56.00
1.253	0.11	0.11	40.39	40.61	56.00

Average:

0.156	0.00	0.10	34.70	34.80	55.67
0.248	0.03	0.10	34.60	34.73	51.82
0.374	0.05	0.10	35.20	35.35	48.40
0.503	0.06	0.10	30.20	30.36	46.00
0.875	0.09	0.10	33.20	33.39	46.00
1.253	0.11	0.11	32.00	32.22	46.00

Remarks :

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

CONDUCTED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 4 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV

=====					
0.249	0.03	0.10	42.75	42.88	61.79
0.374	0.05	0.10	42.00	42.15	58.42
*0.503	0.06	0.10	40.78	40.94	56.00
0.756	0.09	0.10	39.14	39.33	56.00
0.883	0.09	0.10	40.99	41.18	56.00
1.512	0.13	0.12	37.26	37.50	56.00

Average:

0.249	0.03	0.10	39.10	39.23	51.79
0.374	0.05	0.10	37.70	37.85	48.41
0.503	0.06	0.10	35.60	35.76	46.00
0.756	0.09	0.10	31.80	31.99	46.00
0.883	0.09	0.10	33.20	33.39	46.00
1.512	0.13	0.12	28.00	28.24	46.00

Remarks :

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 1 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
MHz	Loss Factor	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm deg

171.815	2.51	9.43	0.00	7.16	19.10	10.90	30.00	401	77
184.087	2.64	9.18	0.00	6.45	18.26	11.74	30.00	401	112
196.366	2.76	9.10	0.00	10.69	22.55	7.45	30.00	401	70
220.905	2.99	9.53	0.00	5.90	18.42	11.58	30.00	401	51
233.178	3.11	10.71	0.00	6.74	20.56	16.44	37.00	401	51
245.451	3.22	11.96	0.00	8.68	23.87	13.13	37.00	401	203
417.279	4.37	16.49	0.00	10.43	31.28	5.72	37.00	230	24
736.369	6.03	20.03	0.00	5.66	31.72	5.28	37.00	116	198
*932.732	7.05	21.13	0.00	4.83	33.01	3.99	37.00	116	17
981.832	7.31	21.24	0.00	4.18	32.73	4.27	37.00	116	4

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 1 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
MHz	Loss Factor	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm deg

=====									
49.091	1.34	7.80	0.00	10.59	19.73	10.27	30.00	105	150
85.909	1.69	8.56	0.00	8.36	18.61	11.39	30.00	105	109
147.273	2.28	10.68	0.00	3.29	16.25	13.75	30.00	105	80
184.091	2.64	9.01	0.00	7.12	18.76	11.24	30.00	105	10
*196.364	2.76	8.94	0.00	14.36	26.06	3.94	30.00	105	1
220.909	2.99	9.32	0.00	5.98	18.29	11.71	30.00	105	42
233.182	3.11	10.51	0.00	5.62	19.24	17.76	37.00	105	33
245.455	3.22	11.80	0.00	7.91	22.93	14.07	37.00	105	166
282.273	3.58	13.01	0.00	2.77	19.36	17.64	37.00	105	30

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 2 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
MHz	Loss Factor	dB	dB/m	Level	Horizontal	dB	dBuV	dBuV/m	dB dBuV/m cm deg

=====									
171.818	2.51	9.43	0.00	7.82	19.76	10.24	30.00	401	45
184.091	2.64	9.18	0.00	5.14	16.95	13.05	30.00	401	74
196.364	2.76	9.10	0.00	10.57	22.43	7.57	30.00	401	50
220.909	2.99	9.53	0.00	6.95	19.47	10.53	30.00	401	91
233.182	3.11	10.71	0.00	6.64	20.46	16.54	37.00	401	56
245.455	3.22	11.96	0.00	7.99	23.18	13.82	37.00	401	72
417.279	4.37	16.49	0.00	9.54	30.39	6.61	37.00	230	24
736.360	6.03	20.03	0.00	5.52	31.58	5.42	37.00	116	199
*932.724	7.05	21.13	0.00	4.52	32.70	4.30	37.00	116	116
981.835	7.31	21.24	0.00	3.96	32.51	4.49	37.00	116	5

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 2 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
MHz	Loss Factor	dB	dB/m	dB	dBUV	dBUV/m	dB	dBUV/m	cm deg

=====									
67.950	1.51	5.47	0.00	11.37	18.35	11.65	30.00	105	77
192.000	2.71	8.88	0.00	5.24	16.83	13.17	30.00	105	12
*196.360	2.76	8.94	0.00	10.73	22.43	7.57	30.00	105	12
220.913	2.99	9.32	0.00	7.47	19.78	10.22	30.00	105	3
233.186	3.11	10.51	0.00	5.90	19.52	17.48	37.00	105	165
245.458	3.22	11.80	0.00	10.98	26.00	11.00	37.00	105	165
343.640	3.98	14.72	0.00	5.18	23.88	13.12	37.00	105	191

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 3 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
MHz	Loss Factor	dB	dB/m	Level	Horizontal	dB	dBuV/m	dB	dBuV/m

47.270	1.32	9.52	0.00	1.86	12.70	17.30	30.00	401	138
85.760	1.69	8.88	0.00	3.42	14.00	16.00	30.00	401	189
*200.000	2.78	9.30	0.00	14.33	26.41	3.59	30.00	401	85
251.595	3.28	12.71	0.00	5.57	21.56	15.44	37.00	401	174
299.995	3.76	13.36	0.00	12.17	29.28	7.72	37.00	401	203
360.210	4.07	14.70	0.00	8.39	27.16	9.84	37.00	336	39
417.279	4.37	16.49	0.00	6.73	27.58	9.42	37.00	224	203
472.503	4.65	16.92	0.00	5.31	26.88	10.12	37.00	183	194
515.461	4.87	17.27	0.00	9.63	31.77	5.23	37.00	183	203
564.547	5.13	18.84	0.00	2.75	26.72	10.28	37.00	180	138
623.996	5.44	19.30	0.00	5.08	29.83	7.17	37.00	176	170
719.995	5.94	19.71	0.00	4.10	29.75	7.25	37.00	105	183
913.710	6.95	21.05	0.00	1.65	29.65	7.35	37.00	104	179

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 3 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
MHz	Loss Factor	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm deg

*47.460	1.32	8.93	0.00	17.39	27.64	2.36	30.00	104	107
64.900	1.49	6.23	0.00	17.99	25.71	4.29	30.00	104	112
202.501	2.81	9.33	0.00	11.66	23.80	6.20	30.00	104	27
233.330	3.11	10.51	0.00	15.63	29.25	7.75	37.00	104	157
280.166	3.56	12.89	0.00	9.77	26.22	10.78	37.00	104	105
299.996	3.76	13.56	0.00	17.33	34.64	2.36	37.00	104	119
320.189	3.86	14.13	0.00	10.30	28.29	8.71	37.00	104	69
535.640	4.98	18.11	0.00	6.72	29.81	7.19	37.00	368	21
623.995	5.44	18.50	0.00	4.92	28.87	8.13	37.00	325	164

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 4 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
=====									
65.790	1.50	6.16	0.00	4.37	12.03	17.97	30.00 401	83	
83.770	1.66	8.60	0.00	6.31	16.58	13.42	30.00 401	142	
199.995	2.78	9.30	0.00	10.66	22.74	7.26	30.00 401	35	
202.500	2.81	9.44	0.00	5.99	18.24	11.76	30.00 401	14	
233.330	3.11	10.71	0.00	11.38	25.20	11.80	37.00 401	37	
251.590	3.28	12.71	0.00	6.68	22.67	14.33	37.00 401	196	
*299.992	3.76	13.36	0.00	14.07	31.18	5.82	37.00 401	138	
333.328	3.93	13.66	0.00	7.54	25.13	11.87	37.00 401	21	
378.035	4.16	14.85	0.00	5.78	24.79	12.21	37.00 342	104	
417.275	4.37	16.49	0.00	6.67	27.52	9.48	37.00 220	162	
466.370	4.61	16.86	0.00	4.79	26.27	10.73	37.00 196	36	
515.460	4.87	17.27	0.00	8.35	30.49	6.51	37.00 183	183	
527.995	4.94	17.67	0.00	6.43	29.05	7.95	37.00 183	196	
589.095	5.26	18.63	0.00	2.74	26.63	10.37	37.00 198	182	
589.095	5.26	18.63	0.00	3.09	26.98	10.02	37.00 175	182	
624.000	5.44	19.30	0.00	6.19	30.94	6.06	37.00 149	188	
651.253	5.59	19.16	0.00	5.47	30.22	6.78	37.00 149	39	
719.995	5.94	19.71	0.00	4.04	29.69	7.31	37.00 136	178	
913.790	6.95	21.05	0.00	0.56	28.56	8.44	37.00 105	160	

Remarks:

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

RADIATED EMISSION DATA

Date of Test : November 15, 1999 EUT : Digital Camera
 Test Mode : Mode 4 Test Site : No.2 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss			Level	Vertical				
MHz	Factor								
	dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m	cm deg
=====									
33.400	1.19	15.14	0.00	4.91	21.23	8.77	30.00	105	193
59.667	1.44	6.00	0.00	11.60	19.04	10.96	30.00	105	136
68.935	1.52	5.27	0.00	14.86	21.65	8.35	30.00	105	109
119.860	2.02	11.56	0.00	2.14	15.72	14.28	30.00	105	89
189.020	2.68	8.91	0.00	6.26	17.85	12.15	30.00	105	161
199.999	2.78	9.07	0.00	12.30	24.16	5.84	30.00	105	197
233.330	3.11	10.51	0.00	14.12	27.74	9.26	37.00	105	195
280.166	3.56	12.89	0.00	10.35	26.80	10.20	37.00	105	131
*299.995	3.76	13.56	0.00	17.21	34.52	2.48	37.00	105	124
320.188	3.86	14.13	0.00	10.95	28.94	8.06	37.00	105	122
333.329	3.93	14.61	0.00	11.34	29.88	7.12	37.00	105	117
360.210	4.07	15.48	0.00	3.38	22.92	14.08	37.00	105	113
399.994	4.28	16.05	0.00	6.41	26.74	10.26	37.00	105	64
466.100	4.61	17.12	0.00	2.66	24.40	12.60	37.00	105	138
511.517	4.86	17.26	0.00	4.86	26.98	10.02	37.00	401	201
564.000	5.13	18.65	0.00	1.89	25.67	11.33	37.00	346	22
639.247	5.52	18.51	0.00	3.54	27.56	9.44	37.00	346	144

Remarks:

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