



Test Report

For

Applicant : MICROTEK INTERNATIONAL INC.
Equipment Type : Image Scanner
Model : DUOSCAN T2500 HiD, MRS-2500DLF
FCC ID : EF9DUOSCANT2500HID

Report No. : 004H059FI



Test Report Certification

QuieTek Corporation

No.75-1, Wang-Yeh Valley, Yung-Hsing, Chiung-Lin,
Hsin-Chu County, Taiwan, R.O.C.
Tel : 886-3-592-8858, Fax: 886-3-592-8859
E-Mail : quietek@ms24.hinet.net

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

Applicant : MICROTEK INTERNATIONAL INC.
Address : No.6, Industry East Rd.3, Science-Based Industrial Park,
Hsin-Chu, Taiwan, R.O.C.
Equipment Type : Image Scanner
Model : DUOSCAN T2500 HiD, MRS-2500DLF
Measurement Standard : CISPR 22/1994
Measurement Procedure : ANSI C63.4 /1992
FCC ID : EF9DUOSCANT2500HID
Operation Voltage : 120VAC/60Hz
Classification : Class B
Test Result : Complied
Test Date : May 30, 2000
Report No. : 004H059FI



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: Peter Wu

Approved: Kevin Wang



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REFERENCE

LABORATORY OF LICENSE



1. General Information

1.1 EUT Description

Applicant	: MICROTEK INTERNATIONAL INC.
Address	: No.6, Industry East Rd.3, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C.
Equipment Type	: Image Scanner
Model	: DUOSCAN T2500 HiD, MRS-2500DLF
FCC ID	: EF9DUOSCAN T2500HID
Maximum Resolution	: 2500dpi*2500dpi
Data Cable	: (1) 1394 Cable, Shielded, 1.5m, 1pc (2) SCSI Cable, Shielded, 1.5m, 1pc
Power Cord	: Non-shielded, 1.5m, 1pc

Remark:

1. The EUT is a 2500dpi*2500dpi Image Scanner with two cables .One cable is 1394 cable, another is SCSI cable.
2. The different model are for different company DUOSCAN T2500 HiD is for AGFA, MRS-2500DLF is for MICROTEK. The circuit of EUT is identical.
3. 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 Image Scanner (EUT)

Model Number : DUOSCAN T2500 HiD, MRS-2500DLF
Serial Number : N/A
FCC ID : EF9DUOSCANT2500HID
Manufacturer : MICROTEK
Data Cable : (1) 1394 Cable, Shielded, 1.5m, 1pc
(2) SCSI Cable, Shielded, 1.5m, 1pc
Power Cord : Non-Shielded, 1.5m, 1pc

1.2.2 Host Personal Computer

Model Number : P2L97
Serial Number : 92M4Y00777
FCC ID : DoC
Manufacturer : ASUS
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 Keyboard

Model Number : 6311-TW4C
Serial Number : 916590704C91F24346
FCC ID : DoC
Manufacturer : ACER
Data Cable : Shielded, 1.8m



1.2.5 Modem

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

1.2.6 Modem

Model Number : 1414
Serial Number : 980033032
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Data Cable : Shielded, 1.5m
Power Adapter : ACCEX, SCP41-91000A
Cable Output : Shielded, 1.5m

1.2.7 Printer

Model Number : C2642A
Serial Number : MY75J1D1D0
FCC ID : B94C2642X
Manufacturer : HP
Data Cable : Shielded, 1.2m
Power Adapter : NMB, C2175A
Cable for AC IN: Non-Shielded, 0.7m
Cable for AC Out: Non-Shielded, 1.5m

1.2.8 Mouse

Model Number : M-S34
Serial Number : LZB75078465
FCC ID : DZL211029
Manufacturer : HP
Data Cable : Shielded, 1.8m

1.2.9 Mouse

Model Number : M-S35
Serial Number : LZA75102600
FCC ID : DZL211029
Manufacturer : Logitech
Data Cable : Shielded, 1.8m



1.2.10 Video Camera

Model Number : Vcam 3X
Serial Number : N/A
FCC ID : DoC
Manufacturer : Mustek
Data Cable (USB) : Shielded, 1.5m

1.2.11 Speaker

Model Number : J-009
Serial Number : 97-C-019790-T
FCC ID : DoC
Manufacturer : JS
Data Cable : Non-Shielded, 1.2m

1.2.12 Digital 8 (D8)

Model Number : DCR-TRV310
Serial Number : 1252344
FCC ID : DoC
Manufacturer : SONY

1.2.13 1394 Card

Model Number : I394P
Serial Number : N/A
FCC ID : DoC
Manufacturer : PROCOMP

1.2.14 SCSI Card

Model Number : AVA-2902E/I
Serial Number : N/A
FCC ID : DoC
Manufacturer : ADAPTEC

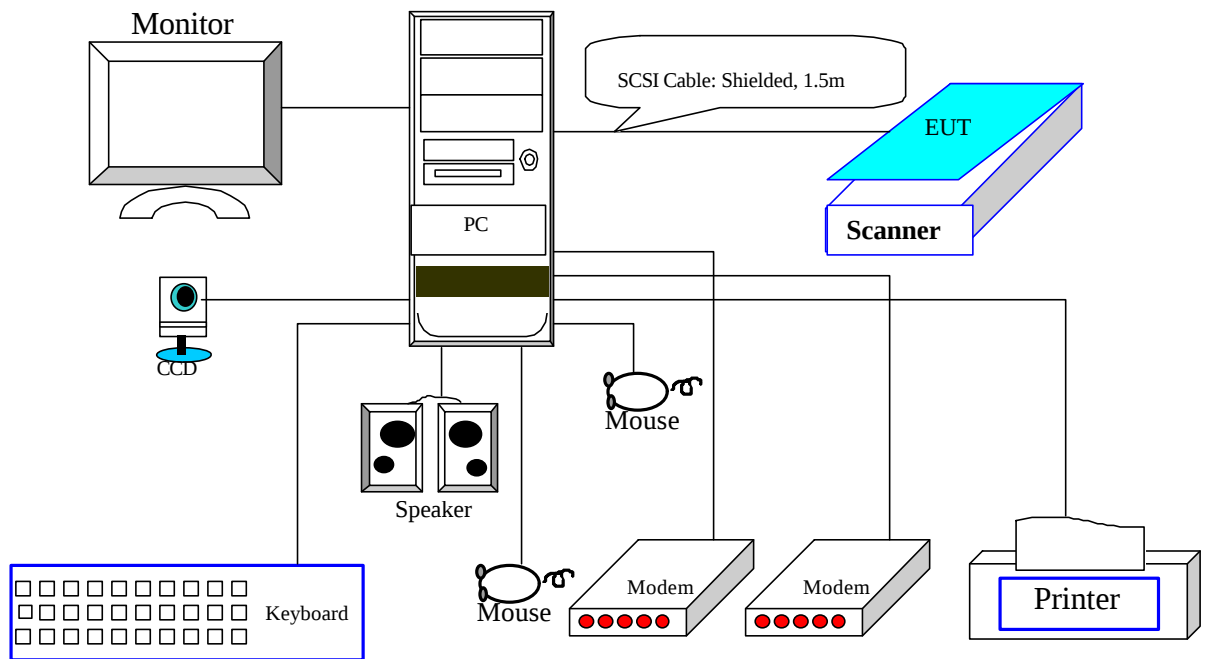
1.2.15 Cable:

1394 Cable: Shielded, 1.5m, 2pcs
SCSI Cable: Shielded, 1.5m

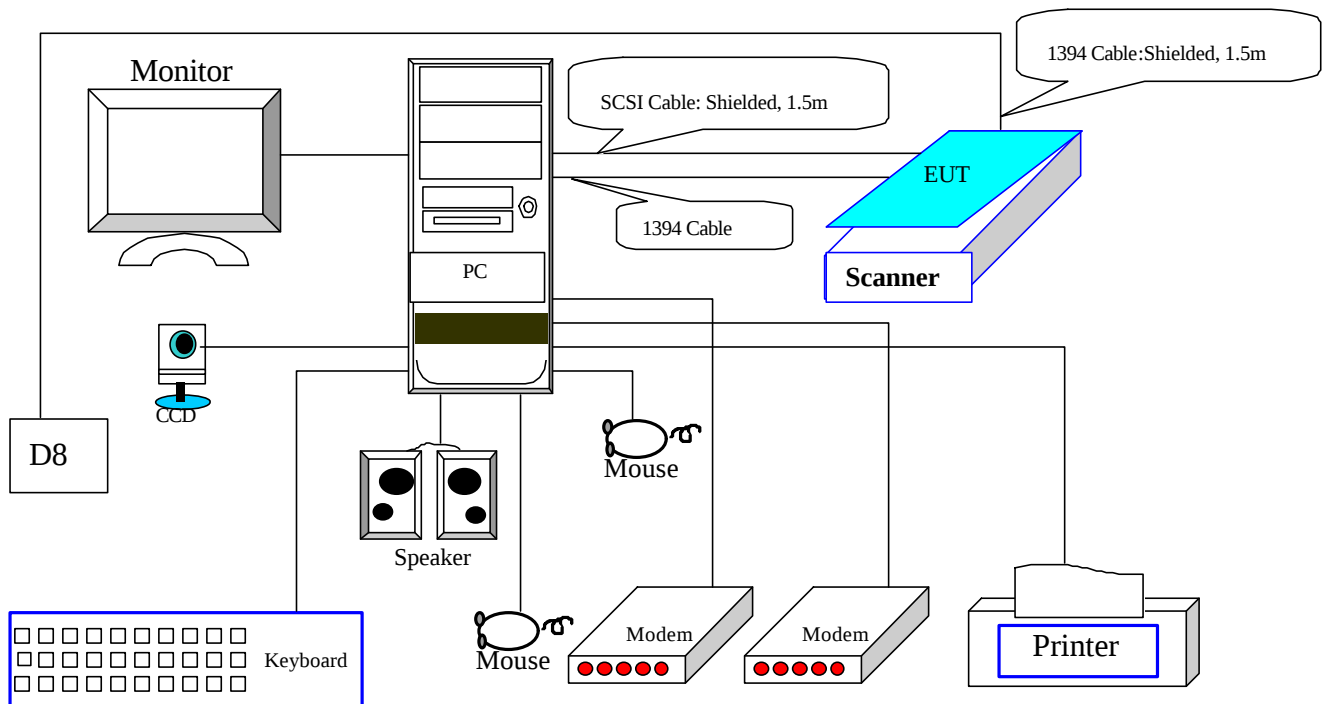


1.3 EUT Configuration

Mode 1: Link PC, W/SCSI Cable



Mode 2: Link PC, W/1394 Cable



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 PC reads test software from the control BIOS of scanner and then sent to scanner.
- 1.4.5 The Scanner (EUT) will start to operate and scan the digitize image data into PC.
- 1.4.6 PC will display “digitize image data” on monitor.
- 1.4.7 Printer and modem will keep at standby mode during Scanner operation.
- 1.4.8 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

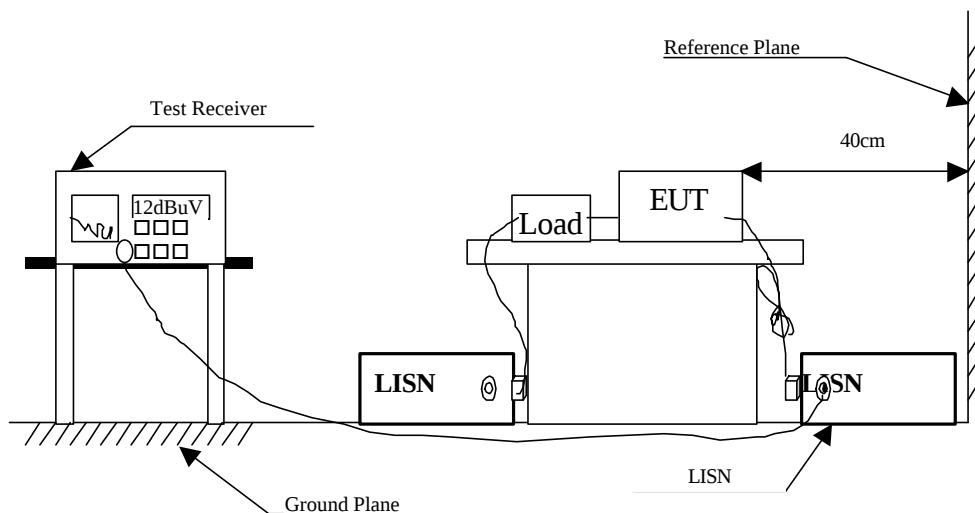
2.1 Test Equipment List

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, 2000	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2000	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2000	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	QP	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

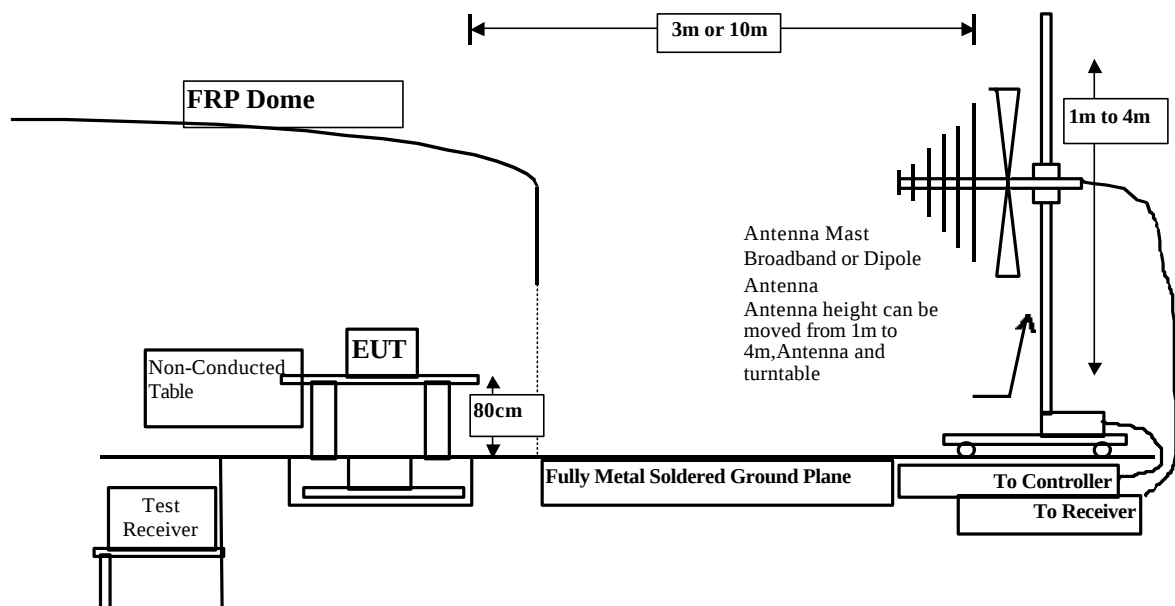
3.1 Test Equipment

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, 2000
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2000
		Pre-Amplifier	HP	8447D/3307A01812	May, 2000
	X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 1999
	X	Horn Antenna	EM	EM6917 / 103325	May, 2000
Site # 2	X	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2000
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2000
		Pre-Amplifier	HP	8447D/3307A01814	May, 2000
	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 1999
	X	Horn Antenna	EM	EM6917 / 103325	May, 2000

- 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	Class A		Class B		Frequency	Class A		Class B	
MHz	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 Detailed Photographs	Number of Pages: 2



Attachment 1 : Summary of Test Results

The test results in the emission and immunity 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 and immunity are listed as the attached data.

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

Mode 1: Link PC, W/SCSI Cable

Mode 2: Link PC, W/1394 Cable

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 : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 1 (Link PC, W/SCSI Cable) 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	46.12	46.23	64.10
0.227	0.02	0.10	41.87	41.99	62.56
0.377	0.05	0.10	31.29	31.44	58.35
*4.190	0.19	0.16	41.39	41.74	56.00
6.605	0.23	0.18	35.66	36.07	60.00
24.376	0.38	0.52	33.33	34.23	60.00

Average:

0.189	0.01	0.10	35.80	35.91	54.08
0.207	0.02	0.10	32.70	32.82	53.32
0.377	0.05	0.10	20.50	20.65	48.35
4.190	0.19	0.16	34.40	34.75	46.00
6.605	0.23	0.18	31.20	31.61	50.00
24.376	0.38	0.52	28.90	29.80	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 2 (Link PC, W/1394 Cable) Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.154	0.00	0.10	50.31	50.41	65.79
0.188	0.01	0.10	46.04	46.15	64.10
0.301	0.04	0.10	35.81	35.95	60.20
*4.149	0.19	0.16	41.08	41.43	56.00
18.859	0.35	0.43	32.34	33.12	60.00
28.124	0.39	0.58	41.02	41.99	60.00

Average:

0.154	0.00	0.10	37.60	37.70	55.78
0.188	0.01	0.10	35.00	35.11	54.12
0.301	0.04	0.10	22.80	22.94	50.22
4.149	0.19	0.16	34.10	34.45	46.00
18.859	0.35	0.43	26.20	26.98	50.00
28.124	0.39	0.58	38.20	39.17	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 1 (Link PC, W/SCSI Cable) Detect Mode : Quasi-Peak & Average

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

=====					
*0.150	0.00	0.10	54.24	54.34	66.00
0.189	0.01	0.10	48.04	48.15	64.08
0.265	0.03	0.10	40.71	40.84	61.27
5.030	0.20	0.17	37.59	37.96	60.00
20.640	0.36	0.46	33.13	33.95	60.00
28.124	0.39	0.58	38.61	39.58	60.00

Average:

0.150	0.00	0.10	44.30	44.40	56.00
0.189	0.01	0.10	38.50	38.61	54.08
0.265	0.03	0.10	31.20	31.33	51.27
5.030	0.20	0.17	31.90	32.27	50.00
20.640	0.36	0.46	29.20	30.02	50.00
28.124	0.39	0.58	26.00	26.97	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 2 (Link PC, W/1394 Cable) Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
*0.150	0.00	0.10	52.68	52.78	66.00
0.189	0.01	0.10	47.23	47.34	64.07
0.226	0.02	0.10	43.06	43.18	62.61
2.982	0.17	0.15	38.87	39.19	56.00
8.117	0.25	0.19	30.76	31.20	60.00
28.123	0.39	0.58	37.50	38.47	60.00
Average:					
0.150	0.00	0.10	42.60	42.70	56.00
0.189	0.01	0.10	36.40	36.51	54.08
0.226	0.02	0.10	32.40	32.52	52.60
2.982	0.17	0.15	32.30	32.62	46.00
8.117	0.25	0.19	25.60	26.04	50.00
28.123	0.39	0.58	35.10	36.07	50.00

Remarks :

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



RADIATED EMISSION DATA

Date of Test : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 1 (Link PC, W/SCSI Cable) Test Site : No.1 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
=====									
150.000	2.31	10.72	0.00	12.55	25.58	4.42	30.00 388	91	
163.307	2.43	9.69	0.00	11.26	23.38	6.62	30.00 388	76	
185.805	2.65	8.98	0.00	6.75	18.38	11.62	30.00 388	31	
210.000	2.89	9.49	0.00	13.44	25.82	4.18	30.00 388	122	
215.152	2.93	9.01	0.00	10.69	22.63	7.37	30.00 388	122	
*219.810	2.98	9.38	0.00	14.87	27.24	2.76	30.00 388	135	
269.647	3.46	13.17	0.00	16.50	33.12	3.88	37.00 305	5	
390.640	4.23	15.32	0.00	5.27	24.81	12.19	37.00 280	203	
420.650	4.38	16.52	0.00	3.96	24.86	12.14	37.00 234	25	

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 : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 1 (Link PC, W/SCSI Cable) Test Site : No.1 Open Test Site

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

=====									
*150.000	2.31	10.43	0.00	12.33	25.07	4.93	30.00	100	103
157.497	2.38	10.33	0.00	10.73	23.45	6.55	30.00	100	111
210.000	2.89	9.35	0.00	11.11	23.34	6.66	30.00	100	152
270.430	3.47	13.00	0.00	14.24	30.70	6.30	37.00	100	103
329.430	3.90	14.34	0.00	8.93	27.17	9.83	37.00	100	163
390.640	4.23	15.75	0.00	6.00	25.98	11.02	37.00	100	184
570.995	5.16	18.52	0.00	2.79	26.47	10.53	37.00	273	71

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 : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 2 (Link PC, W/1394 Cable) Test Site : No.1 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
=====									
52.873	1.37	7.04	0.00	5.99	14.40	15.60	30.00	388	76
63.998	1.48	5.73	0.00	4.54	11.74	18.26	30.00	388	126
138.845	2.20	11.29	0.00	1.78	15.27	14.73	30.00	388	112
150.000	2.31	10.72	0.00	11.48	24.51	5.49	30.00	388	202
165.090	2.45	9.52	0.00	8.12	20.09	9.91	30.00	388	9
168.970	2.49	9.56	0.00	6.64	18.69	11.31	30.00	388	148
190.965	2.70	8.86	0.00	2.84	14.40	15.60	30.00	301	148
*209.720	2.89	9.49	0.00	15.55	27.93	2.07	30.00	305	30
270.370	3.47	13.00	0.00	13.15	29.61	7.39	37.00	275	202

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 : April 26, 2000 EUT : Image Scanner
 Test Mode : Mode 2 (Link PC, W/1394 Cable) Test Site : No.1 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
=====									
52.998	1.37	6.74	0.00	11.34	19.46	10.54	30.00	100	42
62.000	1.46	6.38	0.00	8.64	16.48	13.52	30.00	100	202
79.800	1.63	6.62	0.00	9.75	18.00	12.00	30.00	100	176
142.137	2.23	10.90	0.00	7.40	20.53	9.47	30.00	100	93
149.965	2.31	10.43	0.00	9.96	22.70	7.30	30.00	100	202
161.402	2.42	10.23	0.00	9.46	22.11	7.89	30.00	100	157
204.105	2.83	9.46	0.00	1.93	14.22	15.78	30.00	100	110
*210.402	2.89	9.35	0.00	12.22	24.45	5.55	30.00	100	63
270.267	3.47	13.00	0.00	11.42	27.88	9.12	37.00	100	111

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.

