

**Spectrum Research
& Testing Lab., Inc.**

No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan,
R.O.C.

TEST REPORT

Reference No.:A03102903
Report No.:FCBA03102903
FCC ID:KAO-GS10-GS20
Page:1 of 17
Date:Dec. 02, 2003

Product Name: Server
Model No.: B2904T15 Transport GS10, GS10, GS20
Applicant: TYAN COMPUTER CORP.
7TH FL., NO. 187, TIDING BLVD., SEC. 2, TAIPEI,
TAIWAN, R.O.C.
Date of Receipt: Oct. 29, 2003
Finished date of Test: Nov. 26, 2003
Applicable Standards: 47 CFR Part 15, Subpart B, Class B
ANSI C63.4:1992

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Checked By :

Sunyou Chen
(Sunyou Chen)

Date: 12/2/2003

Approved By :

J Johnson
(Johnson Ho, Director)

Date: 12/2/2003

NVLAQ[®]

Lab Code: 200099-0



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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- The report must not be used by the applicant to claim that the product is endorsed by NVLAP, TÜV, NEMKO and SRT.
- The NVLAP logo applies only to the applicable standards specified in this report.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 Vac/60 Hz, was used during the test.

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2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Server
MODEL NO.	B2904T15 Transport GS10, GS10, GS20
POWER SUPPLY	Input:100~240V, 60-50Hz, 6-3A DC output :250W
CABLE	N/A

NOTE :

The EUT has three model numbers as above on market. They are identical in all aspects except for the following:

No.	Model No.	Internal Device	Use
1	B2904T15 Transport GS10	S2094 Barebone(GS10)x1	Model No. of TYAN
2	GS10	Intel P4 1.8GHz 400MHzx1 256MB PC2100 DDR LPx2 ST 80GB 7200rpm HDx1	Model No. for TYAN' s customer
3	GS20	S2094 Barebone(GS10)x1 Intel P4 2.4GHz 400MHzx1 256MB PC2100 DDR LPx2 MX 250GB U133 7200 RPM 8M HDx2 SMC9452TX EZ Card 1000 32 Bit Gigabit Ethernet Adapterx1	Model No. for TYAN' s customer

For more detailed information, please refer to the EUT' s specification or user' s manual provided by manufacturer.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID/DOC	REMARK
POWER	SPARKLE POWER INT' L LTD.	FSP250-601U	DOC	
CPU	INTEL	P4 1.8GHz 400MHz	N/A	GS10
CPU	INTEL	P4 2.4GHz 400MHz	N/A	GS20
HDD	SEAGATE	ST380011A	N/A	GS10
HDD	MAXTOR	7Y250P00622R1	N/A	GS20

NOTE :

1. The highest clock is 25MHz.
2. Frequency range to be measured.
Radiated emission is 30MHz to 12GHz.

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2.3 DESCRIPTION OF TEST MODE

The EUT was pre-tested under the following resolution:

- (1) Radiated emission for frequency below 1000 MHz:
640x480, 1024x768, and 1280x960
- (2) Radiated emission for frequency above 1000 MHz:
1024x768, 1280x960 and 1600x1200

The worst emission was found under 1280x960 and therefore the test data of only this mode is recorded.

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:1992 and CISRP22:1997. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID / DOC	CABLE
1	MONITOR	SAMSUNG	PG17IS	DOC	1.5m unshielded power cord 1.2m shielded data cable
2	MODEM	ACEEX	DM-1414	DOC	1.5m unshielded DC power cord 1.2m shielded data cable
3	KEYBOARD	ACER	6311-TA	DOC	1.2m unshielded data cable
4	MOUSE	HP	M019UCA	DOC	1.5m unshielded data cable
5					
6					
7					

NOTE : For the actual test configuration, please refer to the photos of testing.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of ITE and according to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15 Subpart B, Class B

All tests have been performed and recorded as per the above standards.

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4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION LIMIT

FREQUENCY (MHz)	Class A (dBmV)		Class B (dBmV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.5 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2 TEST EQUIPMENT

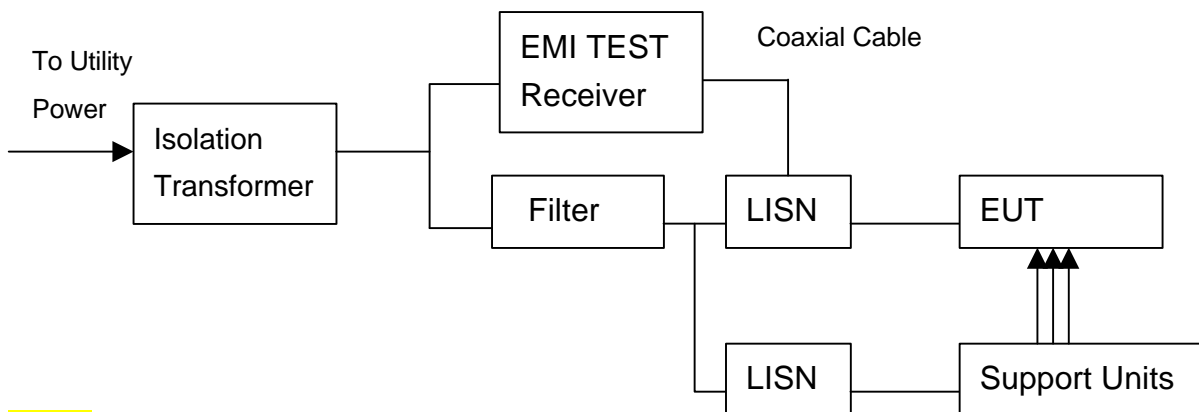
The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 826003/008	AUG. 2004 R&S
LISN (for EUT)	50 μ H, 50 ohm	SOLAR ELECTRONICS	8012-50-R-24-BNC / 924839	JUN. 2004 ETC
LISN (for Peripheral)	50 μ H, 50 ohm	SOLAR ELECTRONICS	9252-50-R-24-BNC / 951318	JUN. 2004 ETC
50 ohm TERMINATOR	50 ohm	HP	11593A/ 2	JUN. 2004 ETC
COAXIAL CABLE	3m	SUNCITY	J400/ 3M	JUL. 2004 SRT
ISOLATION TRANSFORMER	N/A	APC	AFC-11015/ F102040016	N/A
FILTER	2 LINE, 30A	FIL.COIL	FC-943/ 771	N/A
GROUND PLANE	2.3M (H) x 2.4M (W)	SRT	N/A	APR. 2004 SRT
GROUND PLANE	2.4M (H) x 2.4M (W)	SRT	N/A	APR. 2004 SRT

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



4.3 TEST SETUP



NOTE:

1. The EUT was put on a wooden table with 0.8m height above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.
3. The serial no. of the LISN connected to EUT is 951318.
4. The serial no. of the LISN connected to support units is 924839.

4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:1992 and CISRP22:1997. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50μH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, Find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.5 EUT OPERATING CONDITION

1. Under Liunx Red Hat 2.4.20-8 ran "H.sxw 5.0k" programs and PC sent "H" pattern or accessed the following peripherals directly or via EUT:
 - Color Monitor
 - RS232
 - Keyboard
 - Mouse
 - Printer
 - FDD
 - HDD

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Date:Dec. 02, 2003**4.6 TEST RESULT**

Temperature:	26 °C	Humidity:	63 %RH
Ferquency Range:	0.15 – 30 MHz	Tested Mode:	N/A
Receiver Detector:	Q.P. and AV.	Tested By:	Lake Cheng
		Tested Date:	Nov.25, 2003

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBmV)		Emission Level (dBmV)		Limit (dBmV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.275	0.20	34.5	32.3	34.7	32.5	60.9	50.9	-26.2	-18.4
0.472	0.20	32.8	28.5	33.0	28.7	56.5	46.5	-23.5	-17.8
1.377	0.20	31.0	28.1	31.2	28.3	56.0	46.0	-24.8	-17.7
4.779	0.31	32.4	25.1	32.7	25.4	56.0	46.0	-23.3	-20.6
11.396	0.43	49.5	45.2	49.9	45.6	60.0	50.0	-10.1	-4.4
19.857	0.60	44.2	37.2	44.8	37.8	60.0	50.0	-15.2	-12.2

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBmV)		Emission Level (dBmV)		Limit (dBmV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.205	0.20	41.6	33.2	41.8	33.4	63.4	53.4	-21.6	-20.0
0.478	0.20	37.2	33.3	37.4	33.5	56.4	46.4	-19.0	-12.9
1.025	0.20	32.8	29.3	33.0	29.5	56.0	46.0	-23.0	-16.5
4.916	0.31	28.7	22.8	29.0	23.1	56.0	46.0	-27.0	-22.9
11.666	0.43	47.9	43.2	48.3	43.6	60.0	50.0	-11.7	-6.4
19.920	0.60	38.6	29.0	39.2	29.6	60.0	50.0	-20.8	-20.4

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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5. RADIATED EMISSION TEST

5.1 RADIATED EMISSION LIMIT

CISPR 22:1997 limits of radiated emission measurement for frequency below 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dB _m V/m	dB _m V/m
30 – 230	40	30
230 - 1000	47	37

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB_μV/m) = 20 log Emission level (μV/m).

FCC Part 15, Subpart B limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dB _μ V/m) (at 3m)		Class B (dB _μ V/m) (at 3m)	
	PK.	AV.	PK.	AV.
Above 1000	80.0	60.0	74.0	54.0

5.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

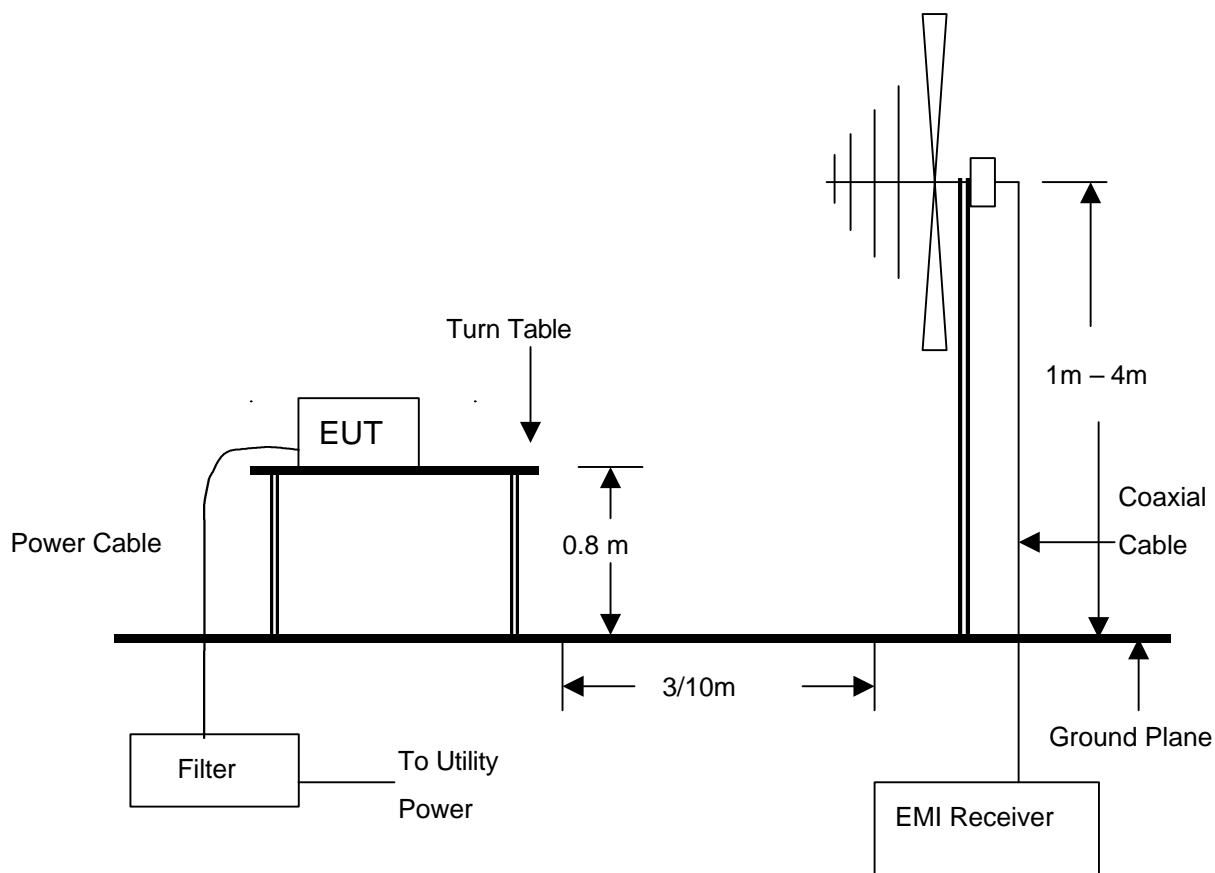
EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	20 MHz TO 1000 MHz	ROHDE & SCHWARZ	ESVS30/ 841997/003	AUG. 2004 ETC
BI-LOG ANTENNA	25 MHz TO 2 GHz	EMCO	3142/ 9701-1124	APR. 2004 SRT
OATS	3 – 10 M MEASUREMENT	SRT	SRT-1	APR. 2004 SRT
COAXIAL CABLE	25M	SUNCITY	J400/ 25M	AUG. 2004 SRT
FILTER	2 LINE, 30A	FIL.COIL	FC-943/ 869	N/A
FREQUENCY CONVERTER	N/A	APC	AFC-1KW/ 860612	AUG. 2004 SRT

NOTE:

1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.



5.3 TEST SET-UP



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.



5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:1992 and CISPR 22:1997. The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, Find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

5.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

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Date:Dec. 02, 2003**5.6 RADIATED EMISSION TEST RESULT**

Temperature:	26 °C	Humidity:	63 %RH
Ferquency Range:	30 – 1000 MHz	Measured Distance:	10m
Receiver Detector:	Q.P.	Tested Mode:	N/A
Tested By:	Lake Cheng	Tested Date:	Nov. 25, 2003

Antenna Polarization:Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
164.3500	1.58	8.94	13.5	24.0	30.0	-6.0	110	4.00
536.0000	3.12	19.32	10.0	32.4	37.0	-4.6	215	4.00
598.2300	2.71	20.75	8.4	31.9	37.0	-5.1	116	3.25
622.5600	3.52	20.93	8.9	33.4	37.0	-3.7	87.6	3.14
873.5100	2.97	23.81	6.1	32.9	37.0	-4.1	312	3.11
930.8700	3.31	24.36	5.1	32.8	37.0	-4.2	275	2.89

Antenna Polarization:Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
266.1400	1.93	12.56	14.0	28.5	37.0	-8.5	115.0	1.00
375.0100	2.15	15.80	16.0	34.0	37.0	-3.1	315.1	1.00
432.1700	2.61	16.65	13.7	33.0	37.0	-4.0	83.20	1.00
531.9700	3.16	19.22	9.6	32.0	37.0	-5.0	231.2	1.34
623.3600	3.42	20.94	8.4	32.8	37.0	-4.2	110.8	2.15
665.7800	2.57	21.34	9.1	33.0	37.0	-4.0	207.6	2.25

NOTE :

1. Measurement uncertainty is +/-4dB.
2. "**": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

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Temperature:	26 °C	Humidity:	63 %RH
Ferquency Range:	1 GHz – 12 GHz	Measured Distance:	3m
Receiver Detector:	PK. or AV.	Tested Mode:	N/A
Tested by:	Lake Cheng	Tested Date:	Nov. 25, 2003

Antenna Polarization : Horizontal

Frequency (MHz)	Correct Factor (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ(°)	EL (m)
			PK.	AV	PK.	AV	PK.	AV	PK.	AV		
1072.33	-34.62	24.40	60.2	50.1	50.0	39.9	74.0	54.0	-24.0	-14.1	310.0	2.10
1446.87	-29.85	25.18	55.2	47.0	50.5	42.3	74.0	54.0	-23.5	-11.7	61.0	2.30
2154.69	-32.25	27.51	56.7	42.9	52.0	38.2	74.0	54.0	-22.0	-15.8	45.0	1.60
3061.58	-32.11	31.18	50.4	44.8	49.5	43.9	74.0	54.0	-24.5	-10.1	119.0	1.50
3743.36	-30.81	32.40	55.3	48.1	56.9	49.7	74.0	54.0	-17.1	-4.3	133.1	1.54
4192.98	-30.10	32.72	57.1	43.3	59.7	45.9	74.0	54.0	-14.3	-8.1	215.3	1.32

Antenna Polarization : Vertical

Frequency (MHz)	Correct Factor (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)		Emission Level (dBμV/m)		Limit (dBμV/m)		Margin (dB)		AZ(°)	EL (m)
			PK.	AV	PK.	AV	PK.	AV	PK.	AV		
1071.65	-34.61	24.36	53.9	44.9	43.6	34.6	74.0	54.0	-30.4	-19.4	50.8	1.21
1278.12	-33.74	24.81	51.1	41.3	42.2	32.4	74.0	54.0	-31.8	-21.6	15.0	1.00
2064.31	-32.84	27.33	56.1	46.8	50.6	41.3	74.0	54.0	-23.4	-12.7	63.7	1.00
3167.25	-31.82	31.50	55.8	48.1	55.5	47.8	74.0	54.0	-18.5	-6.2	87.3	1.60
3856.01	-30.43	32.36	60.9	50.4	62.8	52.3	74.0	54.0	-11.2	-1.7	95.0	2.20
4681.70	-30.53	33.54	53.5	47.3	56.5	50.3	74.0	54.0	-17.5	-3.7	68.0	2.00

- NOTE :**
1. Measurement uncertainty is less than 4dB
 2. "*": Measurement does not apply for this frequency.
 3. Emission Level = Reading Value + Ant. Factor + Cable Loss
 4. The field strength of other emission frequencies were very low against the limit.
 5. "-": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.



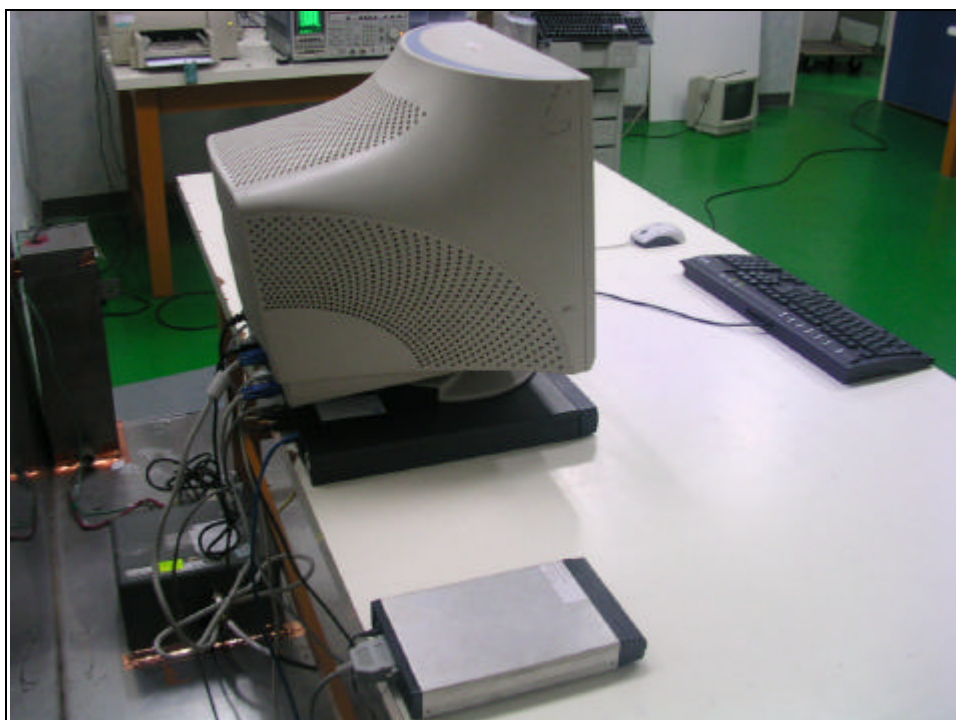
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6. PHOTOS OF TESTING - Conducted test





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- Radiated test (Below 1GHz)





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- Radiated test (Above 1 GHz)



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7. TERMS OF ABRIVATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction