## SPORTON INTERNATIONAL INC.





FCC TEST REPORT

Report No.: F0N1506

# **FCC TEST REPORT**

for

47 CFR, Part 2, Part 15 and CISPR PUB. 22 Class A

Equipment

: Industrial Panel PCs

Model No.

: AMB-2020HT/HTT

FCC ID

: N/A

Filing Type

: Verification

Applicant

: AAEON Technology Inc.

5F, No. 135, Lane 235, Pao-Chiao Rd.,

Hsin-Tien, Taipei, Taiwan

- The test result refers exclusively to the test presented test model / sample.
- Without the written authorization of the test lab., the Test Report may not be copied.
- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.

## SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

TEL: 886-2-2696-2468

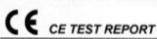
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FAX: 886-2-2696-2255

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C. TEL:886-2-26962468 FAX:886-2-26962255

FCC ID Page No.

# SPORTON INTERNATIONAL INC.







Report No.: CON150

Certificate No.: C0N1506

## CERTIFICATE OF COMPLIANCE

according to

European Standard EN 55022:1994/A1:1995/A2:1997 Class A EN61000-3-2:1995/A12:1996/A13:1997/A1:1998/A2:1998, EN 61000-3-3:1995/A1:1998 and EN 55024:1998 (EN61000-4-2:1995, EN61000-4-3:1996, EN61000-4-4:1995, EN61000-4-5:1995, EN61000-4-6:1996, EN61000-4-8:1993, EN61000-4-11:1994)

Equipment : Industrial Panel PCs

Model No. : AMB-2020HT/HTT

: AAEON Technology Inc. Applicant

5F, No. 135, Lane 235, Pao-Chiao Rd.,

Hsin-Tien, Taipei, Taiwan

#### HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in EUROPEAN COUNCIL DIRECTIVE 89/336/EEC. The equipment was passed the test performed according to European Standard EN 55022:1994/A1:1995/A2:1997 Class A ,

EN61000-3-2:1995/A12:1996/A13:1997/A1:1998/A2:1998, EN61000-3-3:1995/A1:1998 and EN 55024:1998 ( EN61000-4-2:1995, EN61000-4-3:1996, EN61000-4-4:1995, EN61000-4-5:1995, EN61000-4-6:1996, EN61000-4-8:1993, EN61000-4-11:1994 ). The test was carried out on Dec. 18, 2000 at SPORTON International Inc. LAB. in Nei Hwu and Lin Kou.

K. J. Lin Manager

SPORTON International Inc.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

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Issued Date

: Dec. 20, 2000

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### 1. General Description of Equipment under Test

### 1.1. Applicant

AAEON Technology Inc. 5F, No. 135, Lane 235, Pao-Chiao Rd., Hsin-Tien, Taipei, Taiwan

#### 1.2. Manufacturer

Same as 1.1.

### 1.3. Basic Description of Equipment under Test

Equipment

: Industrial Panel PCs

Model No.

: AMB-2020HT/HTT

FCC ID

: N/A

Trade Name

: AAEON

Data cable

: Please see section 2.2 of this test report for details

TP Cable

: Non-Shielded, 10m

Power Supply Type

: Switching

Power Cord

: Non-Shielded, 1.75m, 3 pin

#### 1.4. Feature of Equipment under Test

- 12.1" SVGA color chassis and NEMA. 4/12 compliant plastic front panel
- All-in-one SBC, MediaGX 233MHz
- Brightness and LCD power on/off controller on the aluminum alloy front panel (aluminum front panel optional)
- 16-bit stereo digital audio (optional)
- Four 16C550 RS-232C port, one RS-232C port can be set as RS-422/485 also
- Disk Drive Space for CD-ROM, FDD and HDD
- DiskOnChip flash disk socket
- PC/104 expansion connector
- CPU (Geode<sup>™</sup>): GXLV 233MHz
- HDD(TOSHIBA): HDD 2143 / Z9N83397T
- Power supply: MPE / MPE-8071 / 100 250V

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### 2. Test Configuration of Equipment under Test

#### 2.1. Test Manner

- a. The EUT has been associated peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The SONY Monitor, DELL PS/2 Keyboard, PRIMAX PS/2 Mouse, BTC USB Keyboard, HP Printer and ACEEX Modem were connected to the EUT for EMI test. The remote workstation included FIC PC, SONY Monitor, DELL PS/2 Keyboard and PRIMAX PS/2 Mouse
- c. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 2000MHz.

#### 2.2. Description of Test System

Support Unit 1. -- Monitor (SONY) for local and remote workstation

FCC ID

: AK8GDM17SE2T

Model No.

: GDM-17SE2T

Power Supply Type

: Switching

Power Cord

: Non-Shielded

Serial No.

: SP0013

Data Cable

: Shielded, 360 degree via metal backshells, 1.15m

Support Unit 2. -- PS/2 Keyboard (DELL) for local and remote workstation

FCC ID

: GYUR50SK

Model No.

: AT101W

Power Supply Type

: From PC

Power Cord

: Shielded

Serial No.

: SP00188

Data Cable

: Shielded, 360 degree via metal backshells, 1.5m

Support Unit 3. -- PS/2 Mouse (PRIMAX) for local and remote workstation

FCC ID

: EMJMUSJQ

Model No.

: MUS9J

Serial No.

: SP0045

Data Cable

: Shielded, 360 degree via metal backshells, 1.7m

Support Unit 4. -- USB Keyboard (BTC) for local workstation

FCC ID

: E5XKBUC010410

Model No.

: 7932

Serial No.

: SP0090

Data Cable

: Shielded, 360 degree via metal backshells, 1.8m

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Support Unit 4. -- USB Keyboard (BTC) for local workstation

FCC ID

: E5XKBUC010410

Model No.

: 7932

Serial No.

: SP0090

Data Cable

: Shielded, 360 degree via metal backshells, 1.8m

Support Unit 5. -- Printer (HP) for local workstation

FCC ID

: DSI6XU2225

Model No.

: 2225C

Power Supply Type

: Linear

Power Cord

: Non-Shielded

Serial No.

: SP0014

Data Cable

: Shielded, 360 degree via metal backshells, 1.35m

Support Unit 6. -- Modem (ACEEX) for local workstation

FCC ID

: IFAXDM1414

Model No.

: DM1414

Power Supply Type

: Linear

Power Cord

: Non-Shielded

Serial No.

: SP0015

Data Cable

: Shielded, 360 degree via metal backshells, 1.15m

Support Unit 7. -- Personal Computer (FIC) for remote workstation

FCC ID

: N/A

Model No.

: P2L97

Power Supply Type

: Switching

Power Cord Serial No.

: Non-Shielded : SP0037

Data Cable

: Shielded, 360 degree via metal backshells

Remark

: This support device was tested to comply with FCC standards and

authorized under a declaration of conformity.

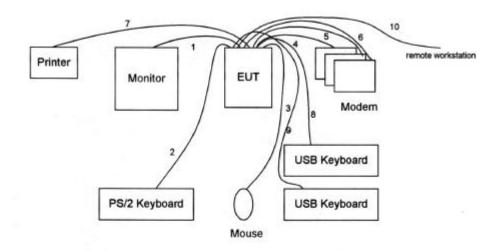
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### 2.3. Connection Diagram of Test System



- The I/O cable is connected from EUT to the support unit 1.
- The I/O cable is connected from EUT to the support unit 2. 2.
- 3. The I/O cable is connected from EUT to the support unit 3.
- The I/O cable is connected from EUT to the support unit 6.
- The I/O cable is connected from EUT to the support unit 6. 5.
- The I/O cable is connected from EUT to the support unit 6. 6.
- The I/O cable is connected from EUT to the support unit 5. 7.
- The I/O cable is connected from EUT to the support unit 4.
- The I/O cable is connected from EUT to the support unit 4.
- 10. The TP cable is connected from EUT to the remote workstation.

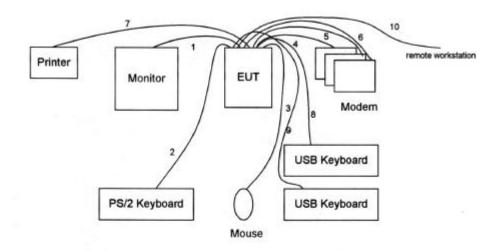
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### 2.3. Connection Diagram of Test System



- The I/O cable is connected from EUT to the support unit 1.
- The I/O cable is connected from EUT to the support unit 2. 2.
- 3. The I/O cable is connected from EUT to the support unit 3.
- The I/O cable is connected from EUT to the support unit 6.
- The I/O cable is connected from EUT to the support unit 6. 5.
- The I/O cable is connected from EUT to the support unit 6. 6.
- The I/O cable is connected from EUT to the support unit 5. 7.
- The I/O cable is connected from EUT to the support unit 4.
- The I/O cable is connected from EUT to the support unit 4.
- 10. The TP cable is connected from EUT to the remote workstation.

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### 4. General Information of Test

### 4.1. Test Facility

This test was carried out by SPORTON International Inc.

Test Site Location

: No. 3, Lane 238, Kang Lo Street, Nei Hwu District,

Taipei 11424, Taiwan, R.O.C. TEL: 886-2-2631-4739 FAX: 886-2-2631-9740

#### 4.2. Standard for Methods of Measurement

ANSI C63.4-1992

#### 4.3. Test in Compliance with

CISPR PUB. 22 Class A

### 4.4. Frequency Range Investigated

a. Conduction: from 150 kHz to 30 MHz
 b. Radiation: from 30 MHz to 2,000 MHz

### 4.5. Test Distance

a. The test distance of radiated emission from antenna to EUT is 10 M (from 30MHz~1000MHz).

b. The test distance of radiated emission from antenna to EUT is 3 M (from 1GHz~2GHz).

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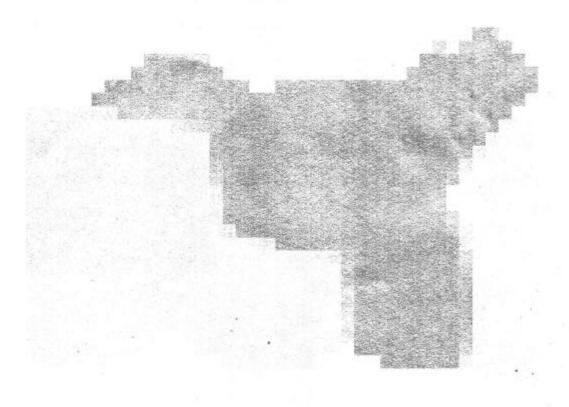
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## 5. Test of Conducted Powerline

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 5.3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

### 5.1. Major Measuring Instruments

Test Receiver	HP 8591EM
Attenuation	0 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
Step MHz	0.007 MHz
IF Bandwidth	9 kHz



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#### 5.2. Test Procedures

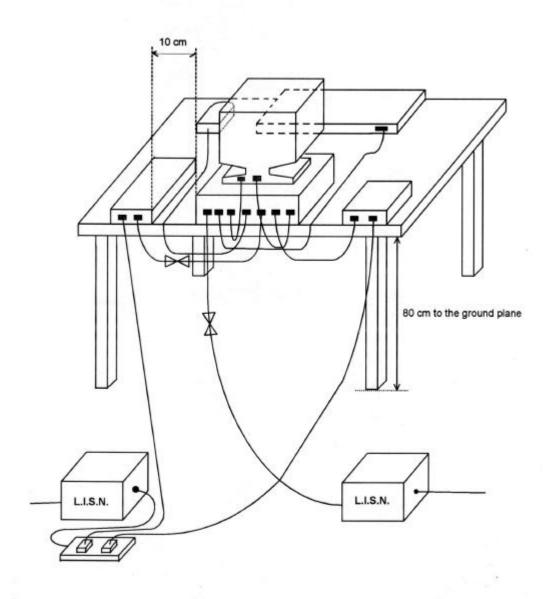
The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

- Connect EUT to the power mains through a line impedance stabilization network (LISN). b.
- All the support units are connect to the other LISN. C.
- The LISN provides 50 ohm coupling impedance for the measuring instrument. d.
- The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold h.
- If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be retested one by one using the quasi-peak method and reported.

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## 5.3. Typical Test Setup Layout of Conducted Powerline



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## 5.4. Test Result of AC Powerline Conducted Emission

Frequency Range of Test: from 0.15 MHz to 30 MHz

Temperature : 24°C Relative Humidity: 53 % Test Date : Nov. 21, 2000

## The Conducted Emission test was passed at minimum margin LINE 15.665 MHz / 37.60 dBuV.

Freq. Line			Meter	Reading		Limits				Margin	
(MHz)	or Neutral	Q.P. (dBuV)	A.V. (dBuV)	Q.P.	A.V.	Q.P. (dBuV)	A.V. (dBuV)	Q.P.	A.V.	Q.P.	A.V.
(mar iz.)	reconal	(dbda)	(apav)	(uV)	(uV)	(dbdv)	(dbuv)	(uV)	(uV)	(dB)	(dB)
0.206	L	27.90	25.90	24.83	19.72	79.00	66.00	8912.51	1995.26	-51.1	-40.1
13.651	L	30.50	32.80	33.50	43.65	73.00	60.00	4466.84	1000.00	-42.5	-27.2
15.665	L	37.20	37.60	72.44	75.86	73.00	60.00	4466.84	1000.00	-35.8	-22.4
0.158	N	37.40	22.50	74.13	13.34	79.00	66.00	8912.51	1995.26	-41.6	-43.5
13.615	N	29.90	26.40	31.26	20.89	73.00	60.00	4466.84	1000.00	-43.1	-33.6
15.096	N	22.90	15.90	13.96	6.24	73.00	60.00	4466.84	1000.00	-50.1	-44.1

Test Engineer:

BENSON TSAI

## 5.5. Photographs of Conducted Powerline Test Configuration

The photographs show the configuration that generates the maximum emission.





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### 6. Test of Radiated Emission

Radiated emissions from 30 MHz to 2,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

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#### 6.1. Major Measuring Instruments

#### 6.1.1. from 30MHz to 1GHz

Amplifier (HP 8447D)
 Attenuation 0 dB

RF Gain 25 dB

Signal Input 0.1 MHz to 1.3 GHz

Spectrum Analyzer (ADVANTEST R3261C)

 Attenuation
 0 dB

 Start Frequency
 30 MHz

 Stop Frequency
 1000 MHz

 Resolution Bandwidth
 1 MHz

Video Bandwidth 1 MHz

Signal Input 9 KHz to 2.6 GHz

#### 6.1.2. from 1GHz to 2GHz

 Receiver
 ( HP 8546A )

 Attenuation
 0 dB

 Start Frequency
 1000 MHz

 Stop Frequency
 2000 MHz

 Resolution Bandwidth
 1 MHz

 Video Bandwidth
 1 MHz

Signal Input 9 KHz to 6.5GHz

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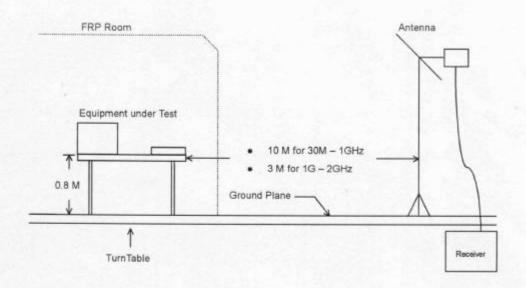
### 6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

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## 6.3. Typical Test Setup Layout of Radiated Emission



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#### 6.4. Test Result of Radiated Emission

· Frequency Range of Test : from 30 MHz to 1,000 MHz

Temperature: 23°C
Relative Humidity: 51 %
Test Date: Nov. 15, 2000

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading : Antenna Factor + Cable Loss + Reading = Emission

#### The Radiated Emission test was passed at minimum margin

127.914 MHz / 36.91 dBuV (VERTICAL) Antenna Height 1 Meter, Turntable Degree 90 °.

Test Distance: 10M for 30MHz ~ 1GHz

Frequency Po (MHz)	Dolositu	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Cable	Reading (dBuV)	Limits		Emission	Level	Margin
	Polarity		Loss (dB)		(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)	(dB)
147.986	н	10.75	2.34	23.49	40.00	100.00	36.58	67.45	-3.42
187.084	Н	9.42	2.64	24.35	40.00	100.00	36.41	66.15	-3.59
504.800	н	18.38	4.68	20.29	47.00	223.87	43.35	147.06	-3.65
127.914	V	11.39	2.19	23.33	40.00	100.00	36.91	70.06	-3.09
199.886	V	9.33	2.75	24.50	40.00	100.00	36.58	67.45	-3.42
227.200	V	10.77	3.03	22.61	40.00	100.00	36.41	66.15	-3.59

Test Distance : 3M for 1GHz ~ 2GHz

Remark: Frequency from 1000MHz to 2000MHz, the emission emitted by the EUT is too low to be measured

Test Engineer : \_

RENSON TSAL

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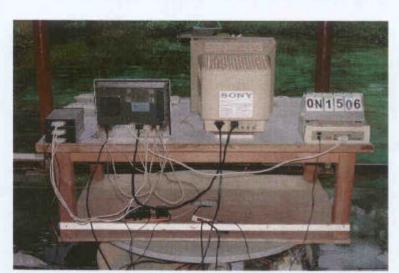
## 6.5. Photographs of Radiated Emission Test Configuration

The photographs show the configuration that generates the maximum emission.





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## 7. Antenna Factor & Cable Loss

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30	19.2	0.8
35	13.4	0.8
40	13.4	1.0
45	11,5	1.0
50	9.9	1.0
55	7.9	1.1
60	6.0	1.2
65	6.4	1.3
70	6.8	1.4
75	7.1	1.5
80	7.3	1.4
85	8.2	1.5
90	9.2	1.5
95	10.1	1.8
100	11.0	1.8
110	11.4	2.0
120	11.8	2.1
130	11.3	22
140	10.8	23
150	10.7	2.4
160	9.7	2.4
170	9.4	2.5
180	9.5	2.7
190	9.4	2.6
200	9.3	2.8
220	. 10.4	3.0
240	11.4	3.2
260	12.2	3.1
280	12.5	3.3
300	12.9	3.4
320	13.3	3.5
340	13.7	3.8
360	14.5	4.0
380	15.5	4.0
400	16.5	4.1
450	16.5	4.3
500	18.3	4.6
550	18.9	5.0
600	20.1	5.1
650	18.1	5.2
700	17.2	5.7
750	17.9	5.9
800	18.0	6.3
850	17.7	6.8
900	21.0	6.8
950	21.0	7.0
1000	20.3	7.4
2000	28.1	5.8

NHOP3

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# 8. List of Measuring Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	HP	8591EM	3536A00673	9 KHz - 1.8 GHz	Sep. 04, 2000	Conduction
LISN	EMCO	3810/2	9703-1838	50uH / 50 ohm	Sep. 01, 2000	Conduction
LISN	ROLF HEINE	NNB-2/16Z	99079	50uH / 50 ohm	Dec. 14, 1999	Conduction
Power Filter	CORCOM	MR12030	N/A	30A*2	N/A	Conduction
Spectrum Analyzer (site 3)	Advantest	R3261C	71720471	9KHz - 2.6GHz	Jan. 06, 2000	Radiation
Amplifier (Site 3)	HP	8447D	2944A06292	0.1MHz -1.3GHz	Feb. 19, 2000	Radiation
Bilog Antenna (Site 3)	CHASE	CBL6112A	2218	30MHz - 2GHz	Jan. 29, 2000	Radiation
Half-wave dipole antenna (Site 3)	EMCO	3121C	8912-1285	20MHz - 1GHz	Aug. 06, 2000	Radiation
Turn Table	EMCO	2080	9508-1805	0 ~ 360 degree	N/A	Radiation
Antenna Mast	EMCO	2075	9804-2151	1 m - 4 m	N/A	Radiation
Receiver	HP	8546A	3325A00108	9KHz~6.5GHz	Dec.15, 1999	Radiation

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# APPENDIX A. Photographs of EUT



ON1506-01.jpg



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0N1506-04.jpg

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ON1506-05.jpg



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0N1506-08.jpg

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ON1506-09.jpg



ON1506-10.jpg

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ON1506-11.jpg



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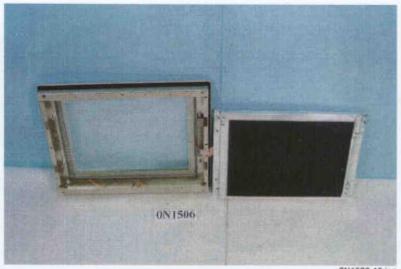
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