



FCC CFR47 PART 15 DIGITAL DEVICE

TEST REPORT

FOR

CPU Board

MODEL: GENE-4312 (N)

REPORT NUMBER: 02E9923

ISSUE DATE: January 23, 2002

Prepared for

**AAEON Technology Inc.
5F, No. 135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei,
Taiwan, R. O. C.**

Prepared by

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NVLAP[®]
LAB CODE: SL2-IN-E-0005



**FCC, VCCI, CISPR, CE
UL, CSA, TÜV, VDE**

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME: AAEON Technology Inc.
5F, No. 135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei,
Taiwan, R. O. C.

CONTACT PERSON: Milo Wang / Q. E. Dept. Engineer

TELEPHONE NO: 8919-1234

MODEL NO/NAME: GENE-4312 (N)

SERIAL NO: N/A

DATE TESTED: January 11, 2002 ~ January 15, 2002

TYPE OF EQUIPMENT:	INFORMATION TECHNOLOGY EQUIPMENT (ITE)
MEASUREMENT DISTANCE:	() 3 METER (x) 10 METER
TECHNICAL LIMIT:	Class A
FCC RULES:	PART 15 – Subpart(B) / CISPR 22 limit applied
MEASUREMENT PROCEDURE	ANSI C63.4:92
EQUIPMENT AUTHORIZATION PROCEDURE	VERIFICATION
MODIFICATION MADE ON EUT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DEVIATIONS FROM MEASUREMENT PROCEDURE	<input type="checkbox"/> YES (refer to section 21 for comments) <input checked="" type="checkbox"/> NO
RADIATED EMISSION TEST RESULT	-2.41 dB @ 147.371MHz / HORIZONTAL
CONDUCTED EMISSION TEST RESULT	-26.88 dB @ 3.584MHz / L2

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By

RICK YEO / EMC MANAGER
COMPLIANCE ENGINEERING SERVICES

Acknowledged By

Milo Wang / Q.E. Dept. Engineer
AAEON Technology Inc.

SYSTEM DESCRIPTION

EUT Test Procedure:

1. Windows 98 Boots System.
2. Run Winemc.Exe To Activate All Peripherals And Display “H” Pattern On Monitor Screen.
3. Data Through the EUT and Transmit Between Server Notebook and EUT Via RJ45 Cable.

PRODU INFORMATION

Housing Type:	METAL
EUT Power Rating:	DC 12V to AC Adaptor
AC power during Test:	120VAC / 60Hz From AC Adaptor
AC Adaptor Manufacturer:	CHI
AC Adaptor Model Number:	CH-1205
AC Power Cord Type:	Un-shielded, 1.8m (Detachable)
DC Cable Type:	Shielded, 0.8m (Non-Detachable), Two ferrite cores on the cable of DC Jack
OSC/Clock Frequencies :	X2, X3 = 25 MHz; Y3= 14.318MHz

I/O Port of EUT:

I/O PORT TYPES	Q' TY	TESTED WITH
1). USB Port	2	2
2). PS/2 Port	1	1
3). RJ45 Port	2	1
4). Mini-DB26	1	N/A
5). DB9 Port (Serial)	2	2
6). DB15 Port (VGA)	1	1
7). DB25 Port (Parallel)	1	1
8). Phone Jack	3	3
9). RCA (Video)	1	1
10).S-Video (Video)	1	1

Note: N/A

SUPPORT EQUIPMENT

Host Computer:

Equipment	Model#	Serial#	Trade Name
Hard Driver	DARA-206000	N/A	IBM
RAM (SDRAM 64MB PC100)	D4564163G5-A10-9JF	N/A	NEC
CPU	GX1-300MHz	N/A	Cyrix
Chassis	AEC-6000	N/A	AAEON
Power Board	AEC-6000 Rev.A0.2	N/A	AAEON

External Peripheral Devices:

No	Equipment	Model #	Serial #	FCC ID	Trade Name	Data Cable	Power Cord
1.	Player	RQ-L309GT	N/A	N/A	PANASONIC	Unshielded, 1.2m	N/A
2.	Mic.&Ear.	MSB-206	N/A	N/A	E.SENSE	Unshielded, 2.3 m	N/A
3.	USB Mouse	MU3UE	N/A	DoC	ACROX	Shielded, 1.7m	N/A
4.	USB Mouse	MU3UE	N/A	DoC	ACROX	Shielded, 1.7m	N/A
5.	PS/2 Mouse	M-S34	LZED1303050	DZL211029	LOGITECH	Shielded, 1.9m	N/A
6.	PS/2 Keyboard	6311-TW4C/6	N/A	DoC	ACER	Shielded, 1.7m	N/A
7.	Monitor	RB15NS	N/A	DoC	SAMSUNG	Unshielded, 1.4m	Shielded, 1.8m With a core
8.	Modem	2496CF	N/A	N/A	DATATRONICS	Shielded, 1.4 m	Unshielded, 1.8m
9.	Modem	231AA	A25331083841	BFJ9D9308US	HAYES	Shielded, 0.8 m	Unshielded, 1.8m
10.	Printer	2225C	2550540697	BS46XU2225C	HP	Shielded, 1.8 m	Unshielded, 1.8m
11.	Monitor	RB17NS	N/A	DoC	SAMSUNG	Unshielded, 1.8m	Shielded, 1.8m With a core
12.	Monitor	PH19HS	N/A	DoC	SAMSUNG	Shielded, 1.8m With two cores	Unshielded, 1.8m
13.	Server Notebook	PT900L-09G4H	X1046383J	N/A	Toshiba	Unshielded, 30m (RJ45)	Unshielded, 1.8m
14.	Cable	N/A	N/A	N/A	N/A	Unshielded, 1.0m(RJ45)	N/A

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

MEASUREMENT PROCEDURE (PRELIMINARY LINE CONDUCTED EMISSION TEST)

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received DC 12V power through AC Adaptor and Line Impedance Stabilization Network (LISN) which supplied power source of 120VAC/ 60Hz and was grounded to the ground plane.
- 5) All support equipment received power from a second LISN supplying power of 110VAC/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Mode:

No.	Mode of operation	Date	Data Report/Plot No.
1	640 X 480	01/11/2002	9462F#(85)
2	800 X 600	01/11/2002	9462F#(77)
3	1024 X 768	01/11/2002	9462F#(126, 129)

- 10) After the preliminary scan, we found the following test mode(s) producing the highest emission level.

Mode(s): 3.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

MEASUREMENT PROCEDURE (FINAL LINE CONDUCTED EMISSION TEST)

- 1) EUT and support equipment was set up on the test bench as per step 10 of the preliminary test.
- 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Q.P. mode, then the emission signal was re-checked using an Average detector.
- 3) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	x.xx	x.xx	48.38	66.00	-17.62	A	L1

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

LINE CONDUCTED EMISSION LIMIT (EN 55022)

Frequency	Maximum RF Line Voltage	
	Q.P.	AVERAGE
150kHz-500kHz	79dBuV	66dBuV
500kHz-5MHz	73dBuV	60dBuV
5MHz-30MHz	73dBuV	60dBuV

Note: The lower limit shall apply at the transition frequency.

MEASUREMENT PROCEDURE (PRELIMINARY RADIATED EMISSION TEST)

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received DC 12V power source from AC Adaptor (120VAC/60Hz) and outlet socket under the turntable. All support equipment received 110VAC/60Hz to power from another socket under the turntable, if any.
- 5) The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.4: 1992. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The following test mode(s) were scanned during the preliminary test:

Mode:

No.	Mode of operation	Date	Data Report/Plot No.
1	640 X 480	01/11/2002	9462D#(05)
2	800 X 600	01/11/2002	9462D#(06)
3	1024 X 768	01/11/2002	9462D#(02, 07)
4	1-2G	01/15/2002	9923G#(02, 07)

- 8) After the preliminary scan, we found the following test mode(s) producing the highest emission level.

Mode(s): 3.

Then, the EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for reference of final testing.

MEASUREMENT PROCEDURE (FINAL RAIDATED EMISSION TEST)

- 1) EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- 2) The Analyzer / Receiver scanned from 30MHz to 2000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 3) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Peak reading is presented. If EUT emission level was less-2dB to the limit, then the emission signal was re-checked using a Q.P. detector.
- 4) The test data of the worst case condition(s) was reported on the Summary Data page.

Data Sample:

Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
x.xx	x.xx	x.xx	40.82	47.00	-6.18	P	V

C.F.(Correction Factor)=Antenna Factor + Cable Loss + Attenuator(3/6dB) - Amplifier Gain

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading – Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

RADIATED EMISSION LIMIT

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBu V/m/ Q.P.)
30-230	10	40
230-1000	10	47

Note: The lower limit shall apply at the transition frequency.

SUMMARY DATA (LINE CONDUCTED TEST)

Model Number: GENE-4312 (N)**Location:** Conducted Room**Tested by:** James Liao**Test Model:** Mode 3**Test Results:** Passed**Temperature:** 21**Humidity:** 74%RH

(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (150 kHz TO 30 MHz)							
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Margin (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.183	50.36	0.02	50.38	79.00	-28.62	P	L1
3.584	42.18	0.21	42.39	73.00	-30.61	P	L1
0.183	50.16	0.02	50.18	79.00	-28.82	P	L2
0.549	39.30	0.05	39.35	73.00	-33.65	P	L2
2.201	38.45	0.14	38.59	73.00	-34.41	P	L2
3.584	45.91	0.21	46.12	73.00	-26.88	P	L2

C.F.(Correction Factor)=Insertion Loss + Cable Loss

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

L1=Hot

Q=Quasi-peak

L2=Neutral

A=Average Reading

Comments: N/A

SUMMARY DATA (RADIATED EMISSION TEST)

Model Number: GENE-4312 (N)**Location:** Site # D**Tested by:** Cliff Lai**Polar:** Vertical / Horizontal- 10m**Test Mode:** Mode 3**Test Results:** Passed**Temperature:** 20**Humidity:** 73%RH

(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (30 MHz TO 2000 MHz)							
Freq (MHz)	Meter Reading (dBuV)	C.F. (dB/m)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading Type P/Q/A	Pol. H/V
134.000	41.10	-6.46	34.64	40.00	-5.36	P	V
147.900	42.24	-5.36	36.88	40.00	-3.12	P	V
177.200	40.29	-6.30	33.99	40.00	-6.01	P	V
110.578	43.21	-10.21	33.00	40.00	-7.00	P	H
133.929	43.57	-8.19	35.38	40.00	-4.62	P	H
147.371	44.83	-7.24	37.59	40.00	-2.41	P	H

C.F.(Correction Factor)=Antenna Factor + Cable Loss - Amplifier Gain (+ Attenuator 6dB)

Corrected Reading = Metering Reading + C.F.

Margin=Corrected Reading - Limits

P=Peak Reading

H=Horizontal Polarization/Antenna

Q=Quasi-peak

V=Vertical Polarization/Antenna

A=Average Reading

Comments: N/A

TEST EQUIPMENT LIST (EMISSION)

Instrumentation: The following list contains equipment used at Compliance Engineering Services, Inc.. for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2-1988 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 9kHz to 1.0 / 2.0 GHz.

Equipment used during the tests:

Open Area Test Site: #D

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
EMI TEST DISPLAY	R&S	DSAI-D 804.8932.52	827832/001	10/29/01	10/28/02
EMI TEST RF UNIT	R&S	ESBI-RF/1005.4300.52	827832/003	10/29/01	10/28/02
AMPLIFIER	HP	8447DB	1644A02328	05/07/01	05/06/02
ANTENNA	SCHWARZBECK	VULB 9160	3104	05/17/01	05/16/02
CABLE	TIME MICROWAVE	LMR-400	N-TYPE02	07/09/01	07/08/02
ANTENNA (1-18GHz)	EMCO	3115	5761	02/23/01	02/22/02
CABLE (1-18GHz)	JYEBAO	N30-L142-1	N/A	03/02/01	03/02/02
AMPLIFIER (1-26GHz)	MITEQ	NSP2600-44	646455	02/26/01	02/26/02

Conducted Area Test Site: Conducted Room

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
TEST RECEIVER	R&S	ESHS20	840455/006	03/15/01	03/14/02
LISN	SOLAR	8012-50-R-24-BNC	8305114	07/23/01	07/22/02
LISN(EUT)	EMCO	3825/2	9108-1842	01/11/02	01/10/03

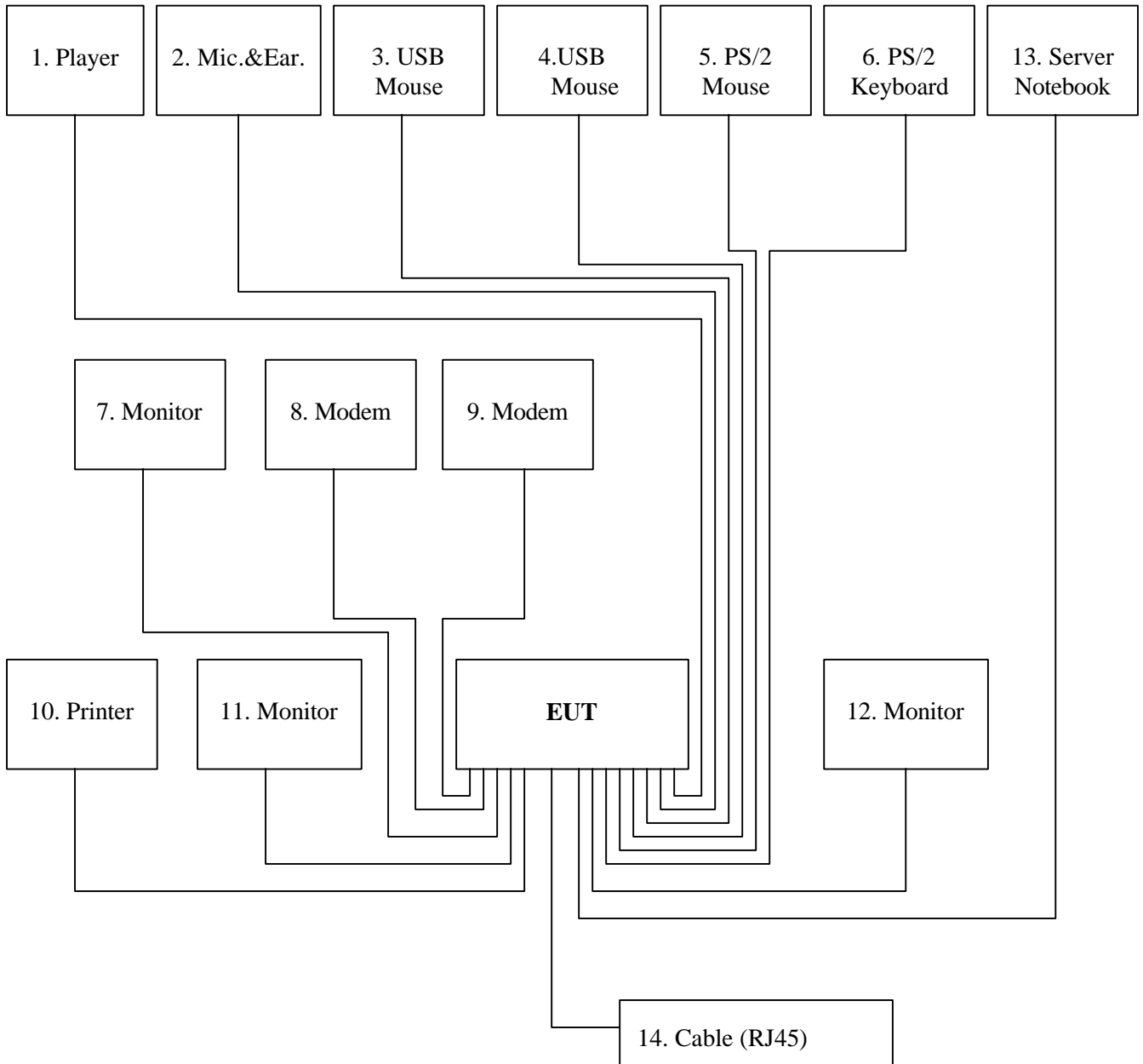
The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators

EUT: CPU Board

Model Number: GENE-4312 (N)



APPENDIX 1

PHOTOGRAPHS OF TEST SETUP (TEST SETUP OF LINE CONDUCTED EMISSION)

LINE CONDUCTED EMISSION TEST



APPENDIX 2

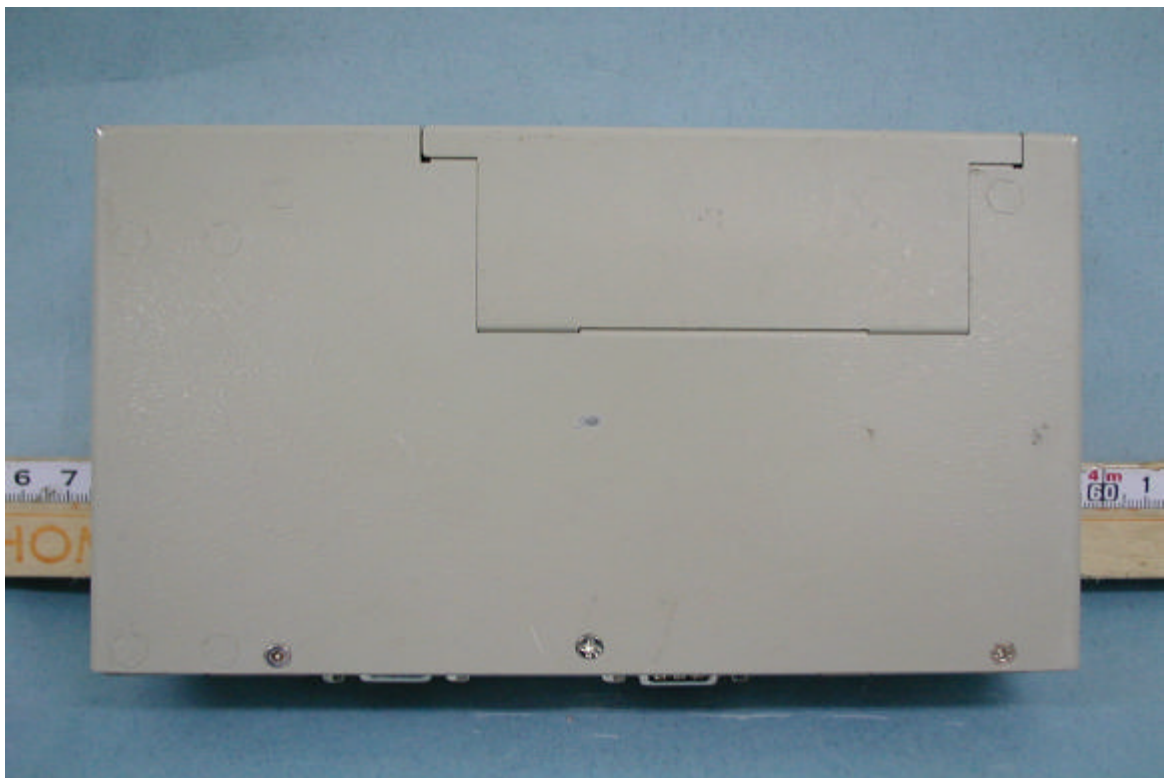
PHOTOGRAPHS OF TEST SETUP (TEST SETUP OF LINE RADIATED EMISSION)

RADIATED EMISSION TEST



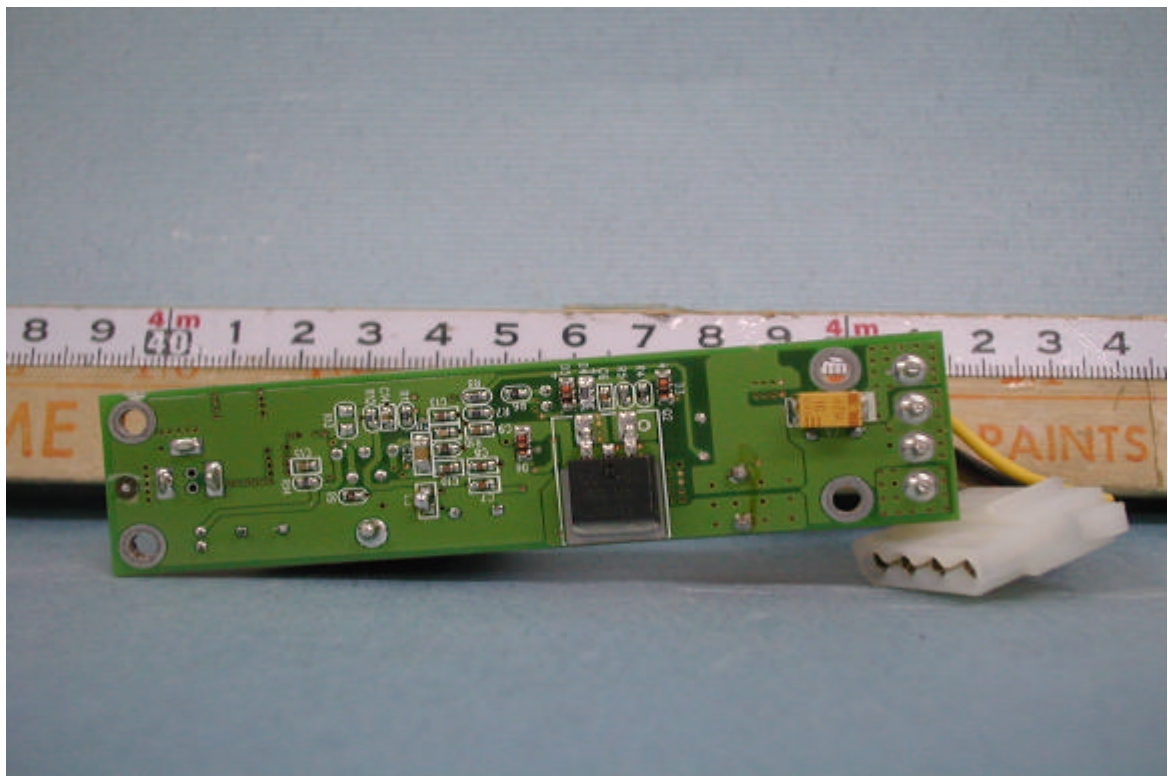
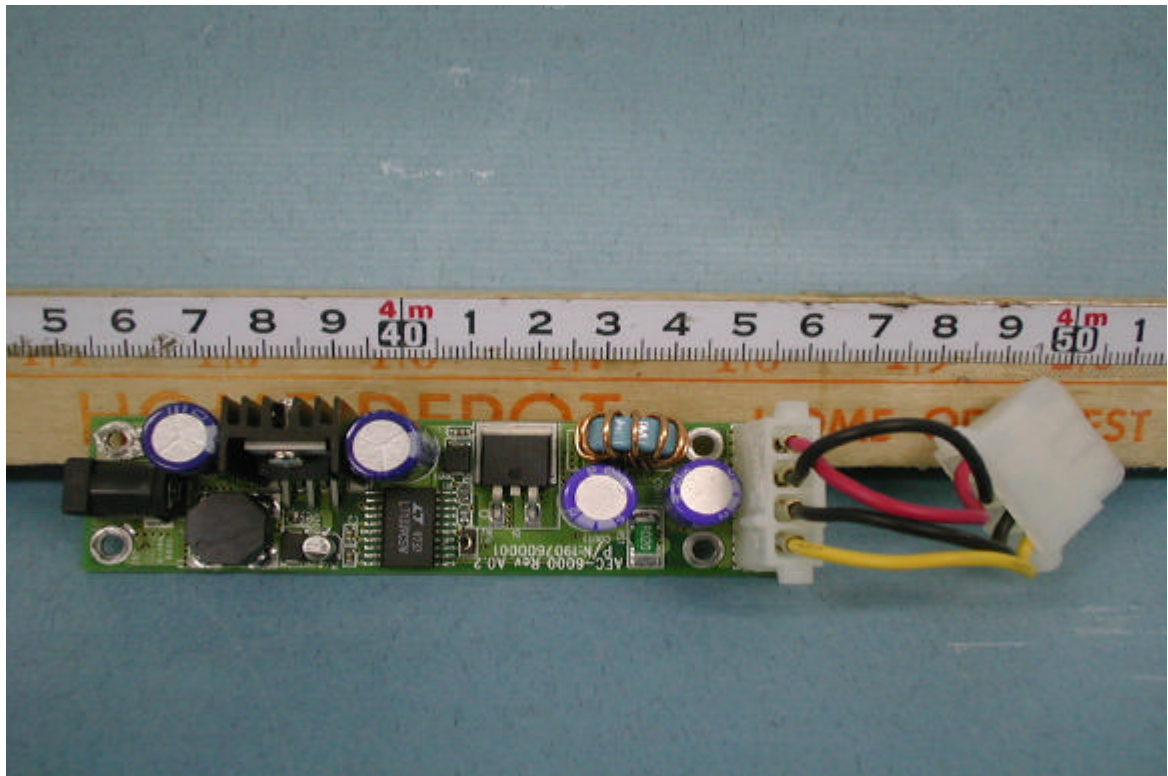
APPENDIX 3

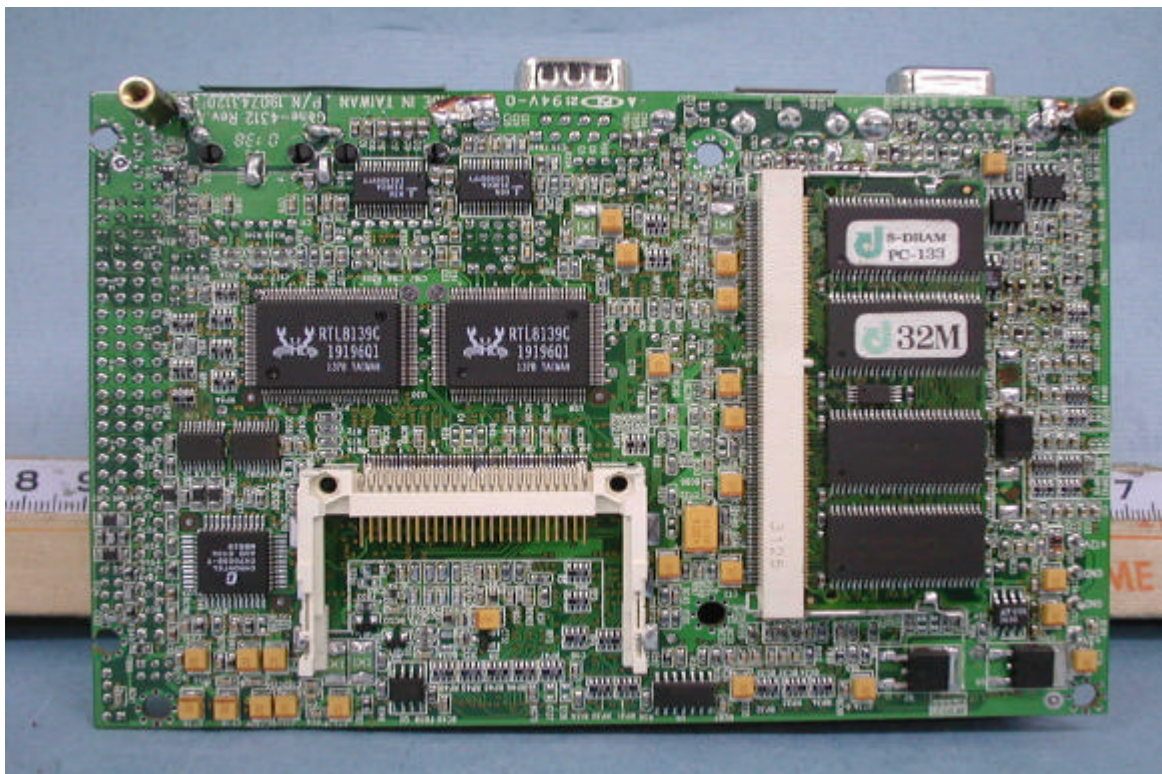
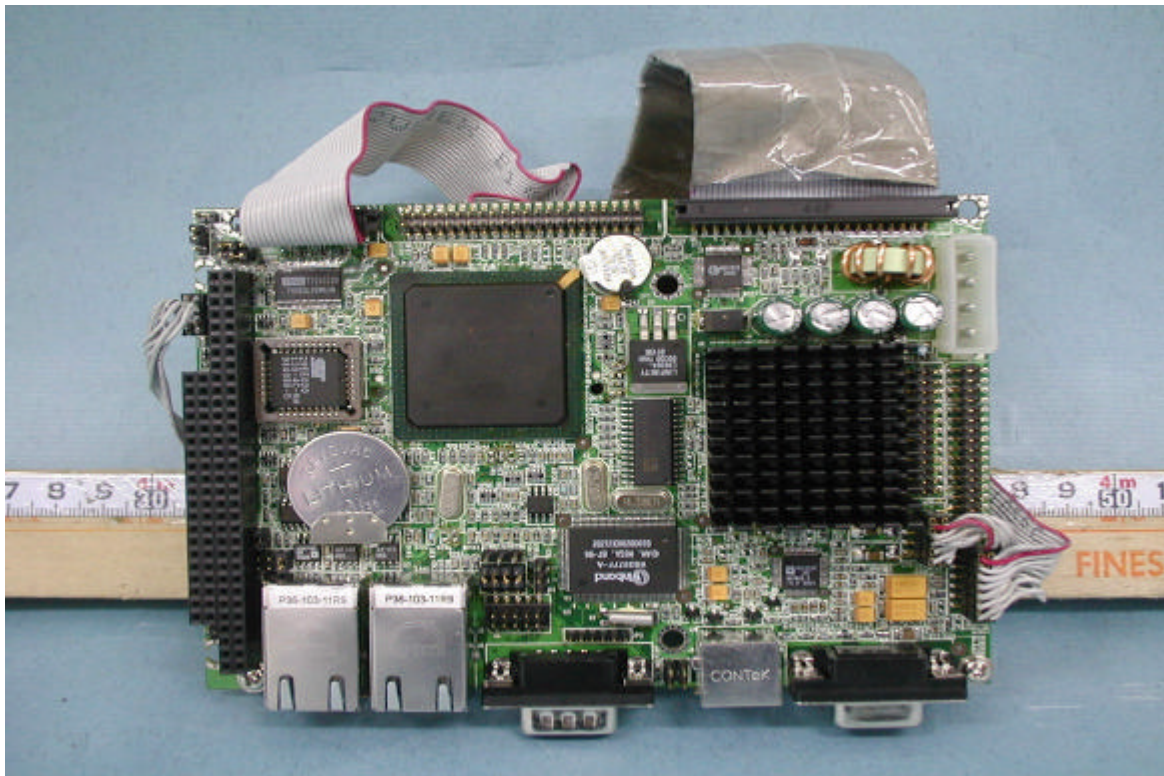
PHOTOGRAPHS OF EUT

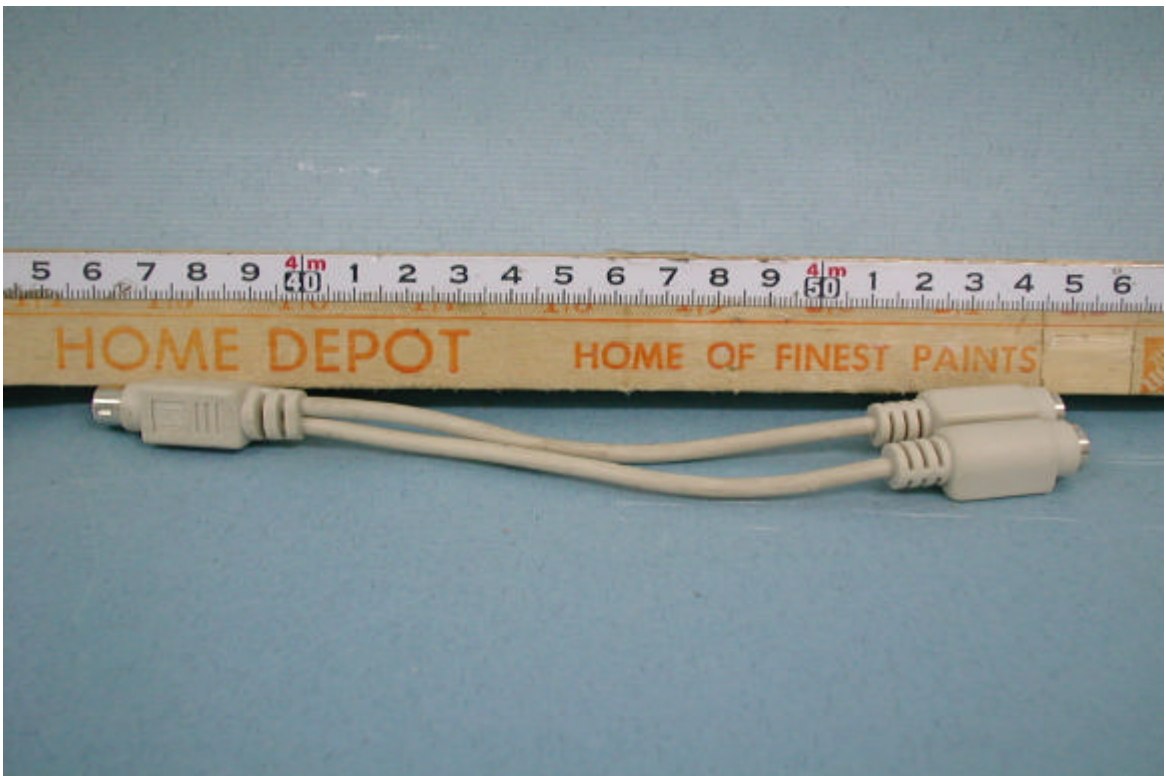












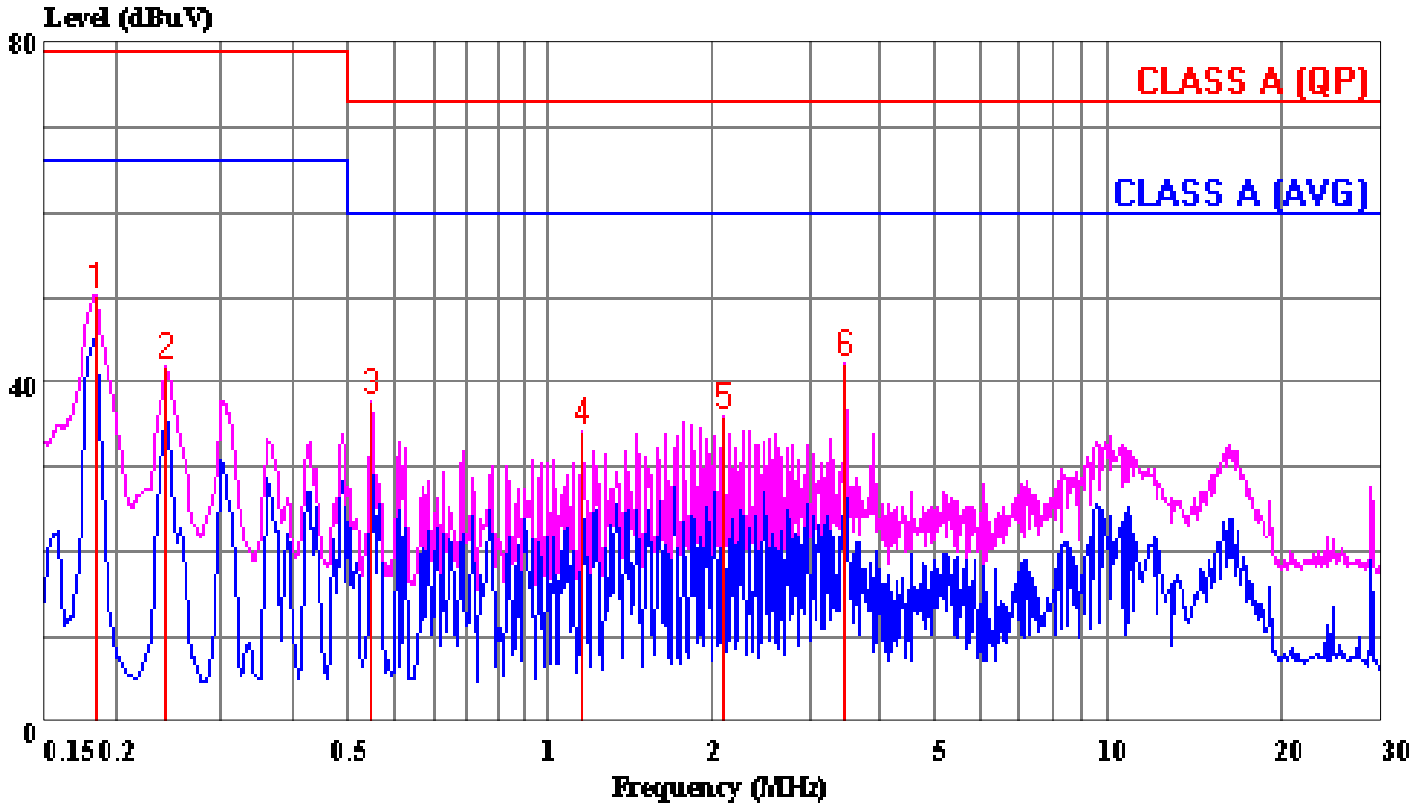


APPENDIX 4

CONDUCTED EMISSION PLOT RADIATED EMISSION DATA

Data#: 126 File#: 9462f.EMI

Date: 2002-01-11 Time: 18:45:15



(Compliance D-Site)

Trace: 68 69

Ref Trace:

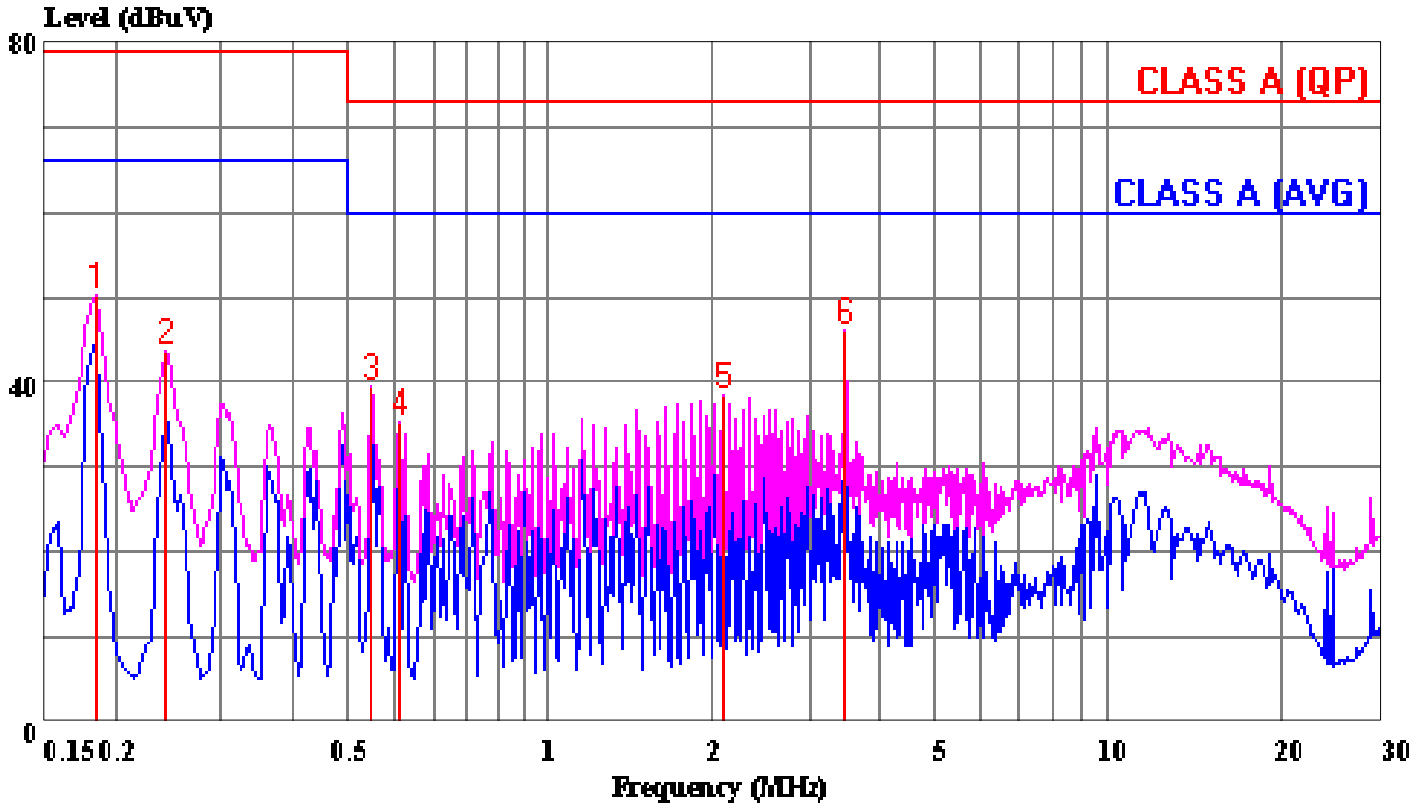
Condition: LINE
Report No. : 02E9923
Test Engr. : JAMES LIAO
Company : AAEON Technology, Inc.
EUT : GENE-4312(N)
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT
Mode of Op. : 1024X768(WORST)

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	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	50.36	0.02	50.38	79.00	-28.62	Peak
2	0.243	41.80	0.02	41.82	79.00	-37.18	Peak
3	0.549	37.72	0.05	37.77	73.00	-35.23	Peak
4	1.262	34.19	0.10	34.29	73.00	-38.71	Peak
5	2.201	36.04	0.14	36.18	73.00	-36.82	Peak
6	3.584	42.18	0.21	42.39	73.00	-30.61	Peak

Data#: 129 File#: 9462f.EMI

Date: 2002-01-11 Time: 19:10:22



(Compliance D-Site)

Trace: 92 93

Ref Trace:

Condition: NEUTRAL
Report No. : 02E9923
Test Engr. : JAMES LIAO
Company : AAEON Technology, Inc.
EUT : GENE-4312(N)
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT
Mode of Op. : 1024X768(WORST)

Page: 1

	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	50.16	0.02	50.18	79.00	-28.82	Peak
2	0.243	43.76	0.02	43.78	79.00	-35.22	Peak
3	0.549	39.30	0.05	39.35	73.00	-33.65	Peak
4	0.611	35.28	0.06	35.34	73.00	-37.66	Peak
5	2.201	38.45	0.14	38.59	73.00	-34.41	Peak
6	3.584	45.91	0.21	46.12	73.00	-26.88	Peak



Data#: 2 File#: 9462d.emi
CCS D-Site

Date: 2002-01-11 Time: 11:50:29

Condition: VERTICAL / 10m
Report No. : 02E9923
Test Engr. : CLIFF LAI
Company : AAEON Technology, Inc.
EUT : GENE-4312(N)
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT
Mode of Op. : 1024X768(WORST)

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	48.044	38.84	-8.15	30.70	40.00	-9.31	Peak
2	65.831	39.68	-8.61	31.07	40.00	-8.93	Peak
3	73.887	42.63	-10.78	31.85	40.00	-8.15	Peak
4	110.600	41.33	-9.16	32.17	40.00	-7.83	Peak
5	134.000	41.10	-6.46	34.64	40.00	-5.36	Peak
6	147.900	42.24	-5.36	36.88	40.00	-3.12	Peak
7	167.000	38.54	-5.62	32.92	40.00	-7.08	Peak
8	177.200	40.29	-6.30	33.99	40.00	-6.01	Peak
9	206.556	37.22	-7.94	29.28	40.00	-10.72	Peak
10	250.667	41.79	-6.20	35.59	47.00	-11.41	Peak
11	300.000	37.01	-4.79	32.22	47.00	-14.78	Peak

Data#: 7 File#: 9462d.emi
CCS D-Site

Date: 2002-01-11 Time: 13:48:15

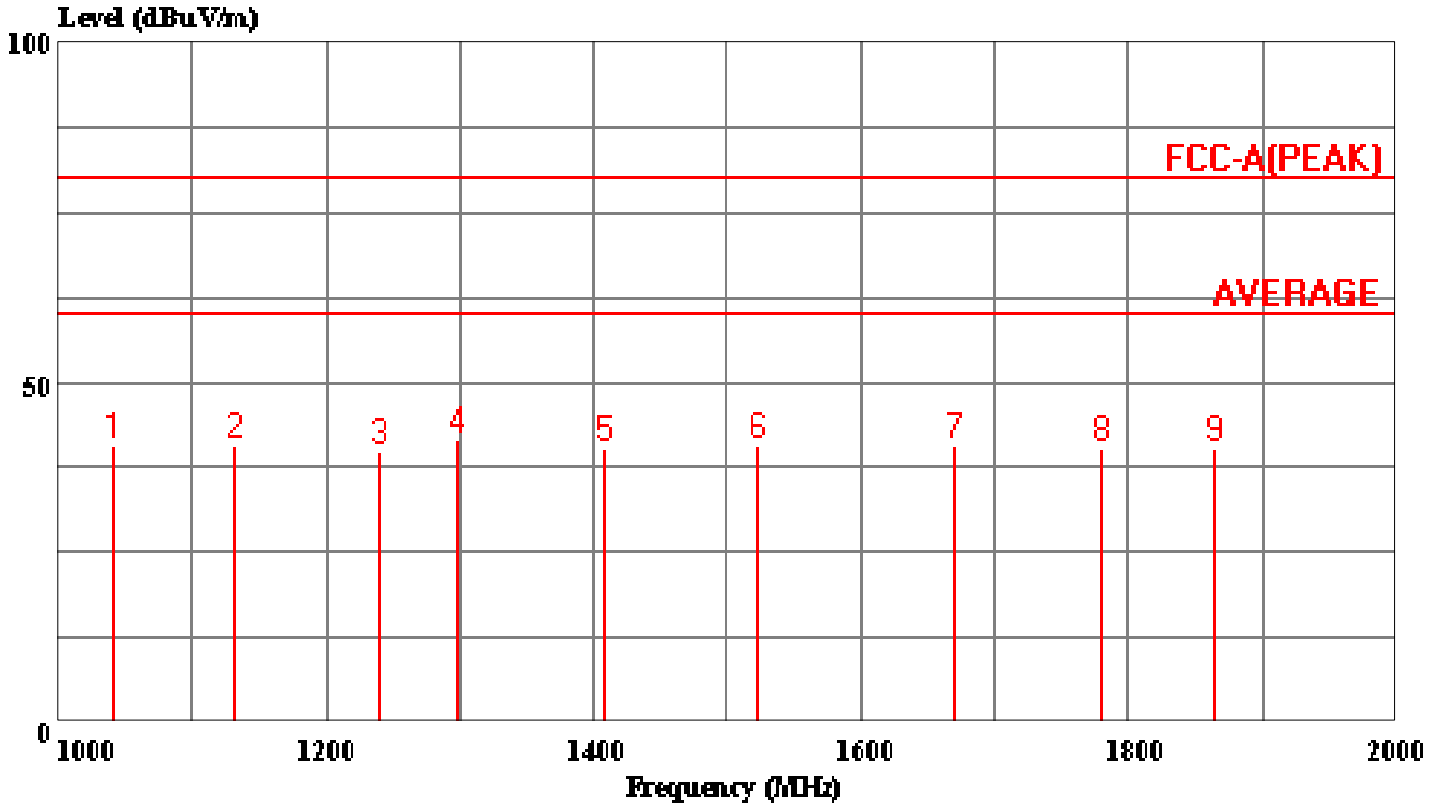
Condition: HORIZONTAL / 10m
Report No. : 02E9923
Test Engr. : CLIFF LAI
Company : AAEON Technology, Inc.
EUT : GENE-4312(N)
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS A E/ EN 55022 CLASS A LIMIT
Mode of Op. : 1024X768(WORST)

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	47.991	34.80	-9.51	25.29	40.00	-14.72	Peak
2	65.749	39.58	-9.86	29.72	40.00	-10.29	Peak
3	73.711	41.10	-11.99	29.11	40.00	-10.89	Peak
4	110.578	43.21	-10.21	33.00	40.00	-7.00	Peak
5	133.929	43.57	-8.19	35.38	40.00	-4.62	Peak
6	147.371	44.83	-7.24	37.59	40.00	-2.41	Peak
7	167.407	36.84	-7.46	29.38	40.00	-10.62	Peak
8	177.007	39.38	-8.20	31.18	40.00	-8.82	Peak
9	205.693	37.65	-9.76	27.89	40.00	-12.11	Peak
10	250.547	39.88	-6.63	33.25	47.00	-13.75	Peak
11	300.022	42.02	-4.91	37.11	47.00	-9.89	Peak

Data#: 2 File#: 9923g.emi

Date: 2002-01-15 Time: 23:19:52



(CES Chamber)

Trace:

Ref Trace:

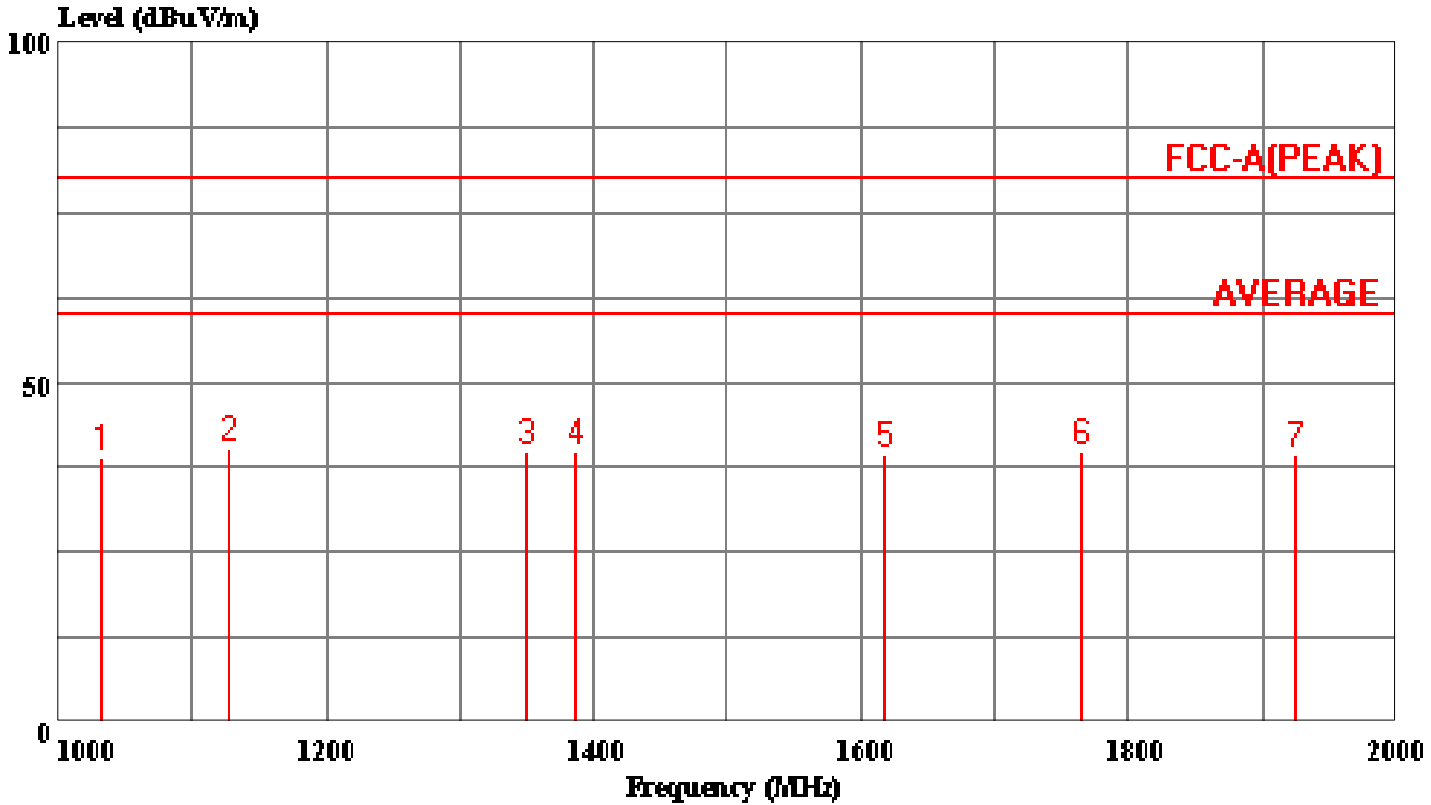
Condition: VERTICAL / 3m
Report No. : 02E9923
Test Engr. : BILL HUANG
Company : AAEON Technology, Inc.
EUT : GENE-4312 (N)
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS A W/ Limit + 20log(3/10)
Mode of Op. : 1-2G/All Test Datas Under Average Limit

Page: 1

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1042.000	53.45	-12.55	40.90	80.00	-39.10 Peak
2	1132.000	52.91	-12.15	40.76	80.00	-39.24 Peak
3	1239.000	51.40	-11.67	39.73	80.00	-40.27 Peak
4	1299.000	52.85	-11.40	41.45	80.00	-38.55 Peak
5	1409.000	51.19	-10.91	40.28	80.00	-39.72 Peak
6	1522.000	51.08	-10.38	40.70	80.00	-39.30 Peak
7	1669.000	50.29	-9.66	40.63	80.00	-39.37 Peak
8	1779.000	49.36	-9.11	40.25	80.00	-39.75 Peak
9	1864.000	49.14	-8.69	40.45	80.00	-39.55 Peak

Data#: 7 File#: 9923g.emi

Date: 2002-01-15 Time: 23:55:02



(CES Chamber)

Trace:

Ref Trace:

Condition: HORIZONTAL / 3m
Report No. : 02E9923
Test Engr. : BILL HUANG
Company : AAeon Technology, Inc.
EUT : GENE-4312 (N)
Test Config : EUT/ALL PERIPHERALS
Type of Test: FCC CLASS A W/ Limit + 20log(3/10)
Mode of Op. : 1-2G/All Test Datas Under Average Limit

Page: 1

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1032.000	51.49	-12.60	38.89	80.00	-41.11 Peak
2	1127.000	52.38	-12.17	40.21	80.00	-39.79 Peak
3	1349.000	50.98	-11.18	39.80	80.00	-40.20 Peak
4	1387.000	50.76	-11.01	39.75	80.00	-40.25 Peak
5	1617.000	49.32	-9.91	39.41	80.00	-40.59 Peak
6	1764.000	48.85	-9.19	39.66	80.00	-40.34 Peak
7	1924.000	47.93	-8.40	39.53	80.00	-40.47 Peak