



**FCC CFR47 PART 15 DIGITAL DEVICE**

**TEST REPORT**

**FOR**

**Industrial Panel PC**

**MODEL: AMB-2457HTT**

**REPORT NUMBER: 02E9958**

**ISSUE DATE: February 21, 2002**

*Prepared for*  
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*Prepared by*  
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**LAB CODE: SL2-IN-E-0005**

## TABLE OF CONTENTS

DESCRIPTION	PAGE
VERIFICATION OF COMPLIANCE	2
SYSTEM DESCRIPTION	3
PRODUCT INFORMATION	4
SUPPORT EQUIPMENT	5
MEASUREMENT PROCEDURE & LIMIT (LINE CONDUCTED EMISSION TEST)	6
MEASUREMENT PROCEDURE & LIMIT (RADIATED EMISSION TEST)	8
SUMMARY DATA	10
TEST EQUIPMENT	12
BLOCK DIAGRAM OF TEST SETUP	13
APPENDIX 1 PHOTOGRAPHS (TEST SETUP OF LINE CONDUCTED EMISSION TEST)	14
APPENDIX 2 PHOTOGRAPHS (TEST SETUP OF RADIATED EMISSION TEST)	16
APPENDIX 3 PHOTOGRAPHS OF EUT	18
APPENDIX 4 CONDUCTED EMISSION PLOT & RADIATED EMISSION DATA	23

**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: AMB-2457HTT

SERIAL NO: N/A

DATE TESTED: February 18, 2002 ~ February 21, 2002

TYPE OF EQUIPMENT:	INFORMATION TECHNOLOGY EQUIPMENT (ITE)
MEASUREMENT DISTANCE:	( x ) 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	-3.16 dB @ 207.960 MHz / HORIZONTAL
CONDUCTED EMISSION TEST RESULT	-20.24 dB @ 28.755 MHz / L1

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

<b>Housing Type:</b>	METAL
<b>EUT Power Rating:</b>	DC 5V/12 to DC Power Supply
<b>AC power during Test:</b>	120VAC / 60Hz From DC Power Supply
<b>DC Power Supply Manufacturer:</b>	Magic Power Technology Co., Ltd.
<b>DC Power Supply Model Number:</b>	MDP-425C
<b>AC Power Cord Type:</b>	Un-shielded, 1.8m (Detachable)
<b>DC Cable Type:</b>	Un-Shielded, 1.6m (Detachable)
<b>EUT I/O Cable:</b>	Shielded, 0.25m (Detachable)
<b>OSC/Clock Frequencies :</b>	Y1= 14.318MHz

### I/O Port of EUT:

I/O PORT TYPES	Q'TY	TESTED WITH
1). PS/2 Port	3	3
2). RJ45 Port	1	1
3). DB25 (Parallel)	1	1
4). DB9 Port (Serial)	1	1
5). Ext Display Port	1	1
6). DB15 (VGA)	1	1

**Note: N/A**

## SUPPORT EQUIPMENT

### Host Computer:

Equipment	Model#	Serial#	Trade Name
CPU	CELERON-533	N/A	INTEL
Main Board	CI7ZS-1.00	N/A	N/A
LCD Panel (15")	FLC38XGC6V-06	N/A	FUJITSU
BackPlane	HPCI75	N/A	N/A
HDD	MPC3043AT	N/A	FUJITSU
LVDS Transfer Board	TB-908D	N/A	N/A
LVDS Board	LVDS-T2000	N/A	N/A
VGA Board	DVL68-B1	N/A	N/A
RAM	SDRAM 64M	N/A	N/A

### External Peripheral Devices:

No	Equipment	Model #	Serial #	FCC ID	Trade Name	Data Cable	Power Cord
1.	PS/2 Keyboard	6311-TW4C/6	N/A	N/A	ACER	Shielded, 1.7m	N/A
2.	Mouse	M-M35	LZA74982707	DZL210365	LOGITECH	Shielded, 1.9m	N/A
3.	Mouse	M-S34	LZED1303050	DZL211029	LOGITECH	Shielded, 1.9m	N/A
4.	Keyboard	KB-8923	3373140	E8HKB-5923	IBM	Shielded, 1.8m	N/A
5.	DC Power	MPD-425C	N/A	N/A	Magic Power	Unshielded, 1.6m	Unshielded, 1.8m
6.	Monitor	PN19LT	N/A	DoC	SAMSUNG	Shielded, 1.8m With two cores	Unshielded, 1.8m
7.	Printer	C6464A	TH12SE129W	DoC	HP	Shielded, 1.9 m	Unshielded, 1.8m
8.	Server Notebook	PS181L-03T08	12089097J	N/A	Toshiba	Unshielded, 30m (RJ45)	Unshielded, 1.8m

**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 5V/12V power through DC Power Supply 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	1024X768	02/21/2002	9958F#(08,32)
2	800X600	02/21/2002	9958F#(16)
3	640X480	02/21/2002	9462F#(24)

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

**Mode(s):** 1.

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  $-2\text{dB}$  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 5V/12V power source from DC Power Supply (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	640X480	02/19/2002	9462F#(40)
2	800X600	02/19/2002	9462F#(38)
3	1024X768	02/19/2002	9462F#(33, 35)
4	1-5G	02/18/2002	9958G#(02, 08)

- 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 5000MHz. 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
<b>x.xx</b>	<b>x.xx</b>	<b>x.xx</b>	<b>40.82</b>	<b>47.00</b>	<b>-6.18</b>	<b>P</b>	<b>V</b>

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:** AMB-2457HTT  
**Tested by:** James Liao

**Location:** Conducted Room

**Test Mode:** Mode 1

**Test Results:** Passed

**Temperature:** 17

**Humidity:** 79%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)
<b>23.018</b>	<b>46.03</b>	<b>0.48</b>	<b>46.51</b>	<b>73.00</b>	<b>-26.49</b>	<b>P</b>	<b>L1</b>
<b>28.755</b>	<b>52.23</b>	<b>0.53</b>	<b>52.76</b>	<b>73.00</b>	<b>-20.24</b>	<b>P</b>	<b>L1</b>
<b>0.153</b>	<b>55.67</b>	<b>0.02</b>	<b>55.69</b>	<b>79.00</b>	<b>-23.31</b>	<b>P</b>	<b>L2</b>
<b>0.213</b>	<b>55.13</b>	<b>0.02</b>	<b>55.15</b>	<b>79.00</b>	<b>-23.85</b>	<b>P</b>	<b>L2</b>
<b>0.516</b>	<b>46.99</b>	<b>0.05</b>	<b>47.04</b>	<b>73.00</b>	<b>-25.96</b>	<b>P</b>	<b>L2</b>
<b>28.755</b>	<b>50.83</b>	<b>0.53</b>	<b>51.36</b>	<b>73.00</b>	<b>-21.64</b>	<b>P</b>	<b>L2</b>

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:** AMB-2457HTT**Location:** Site # E**Tested by:** Vince Chiang**Polar:** Vertical / Horizontal- 10m**Test Mode:** Mode 3**Test Results:** Passed**Temperature:** 17**Humidity:** 79%RH

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

Frequency Range Investigated (30 MHz TO 5000 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
43.820	49.01	-13.05	35.96	40.00	-4.04	Q	V
51.980	51.03	-14.52	36.51	40.00	-3.49	Q	V
178.810	49.20	-12.45	36.75	40.00	-3.25	P	V
181.980	46.20	-12.22	33.98	40.00	-6.02	P	H
200.450	46.80	-11.75	35.05	40.00	-4.95	P	H
207.960	48.00	-11.16	36.84	40.00	-3.16	P	H

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

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:** #E

Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
SPECTRUM ANALYZER	H.P.	8566B	2937A06102	06/06/01	06/05/02
SPECTRUM DISPLAY	H.P.	85662A	2848A18276	06/06/01	06/05/02
QUASI-PEAK DETECTOR	H.P.	85650A	2811A01439	06/07/01	06/06/02
AMPLIFIER	H.P.	8447D B	1644A02328	05/07/01	05/06/02
ANTENNA	EMCO	3142	1310	06/30/01	06/29/02
CABLE	BELDEN	9913	N-TYPE07	01/02/02	01/01/03
CABLE (1-18GHz)	JYEBAO	N30-L142-1/9	N/A	05/02/01	05/02/02
AMPLIFIER (1-26GHz)	MITEQ	NSP2600-44	646455	10/24/01	10/23/02

**Conducted Area Test Site:** Conducted Room

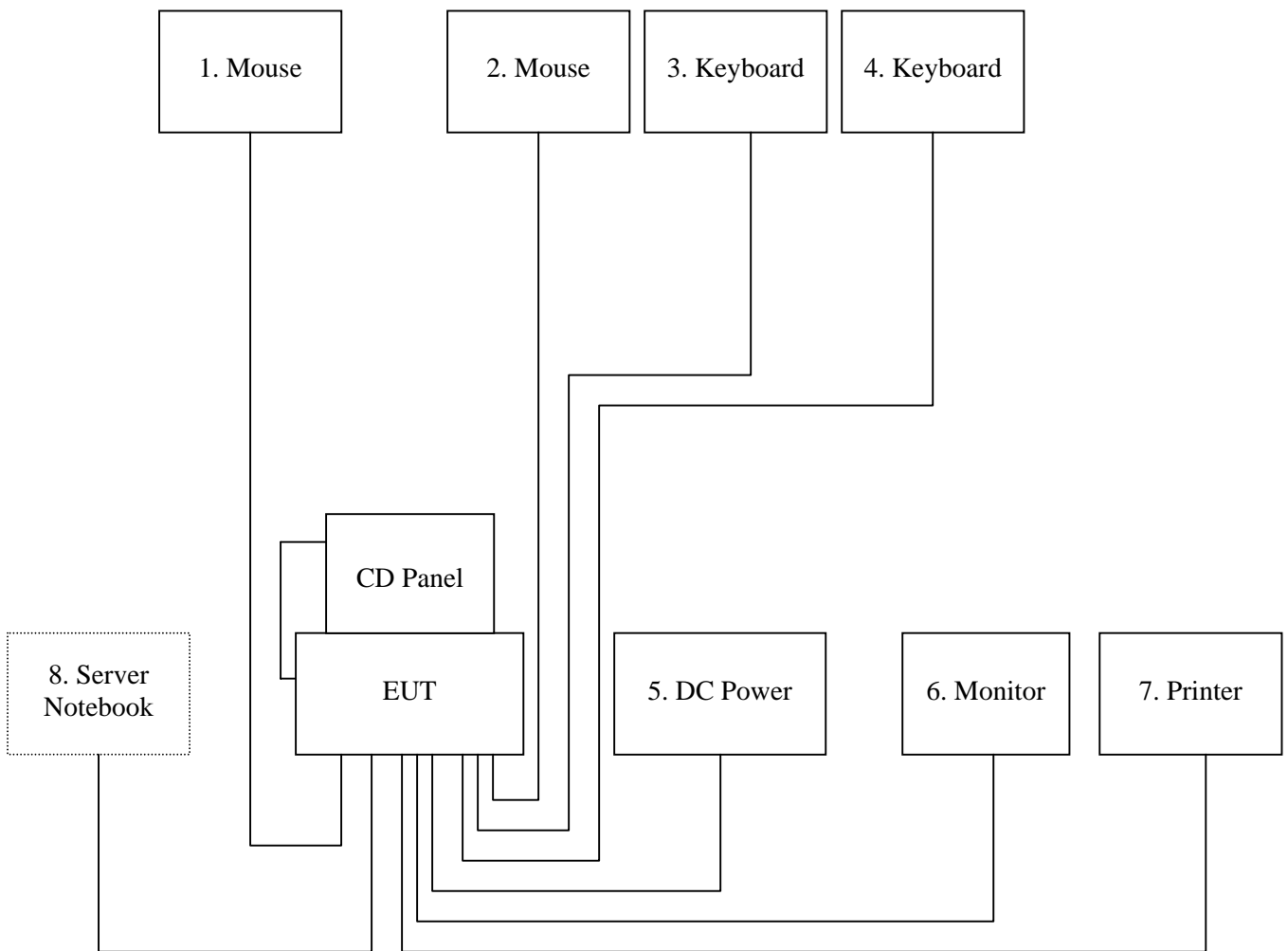
Equipment	Manuf.	Model No.	Serial No.	Cal Date	Due Date
TEST RECEIVER	R&S	ESHS20	840455/006	03/15/01	03/14/02
LISN	SOLAR	8012-50-R-24-BNC	8305114	07/23/01	07/22/02
LISN(EUT)	EMCO	3825/2	1435	01/16/02	01/15/03

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: Industrial Panel PC**  
**Model Number: AMB-2457HTT**



## **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**









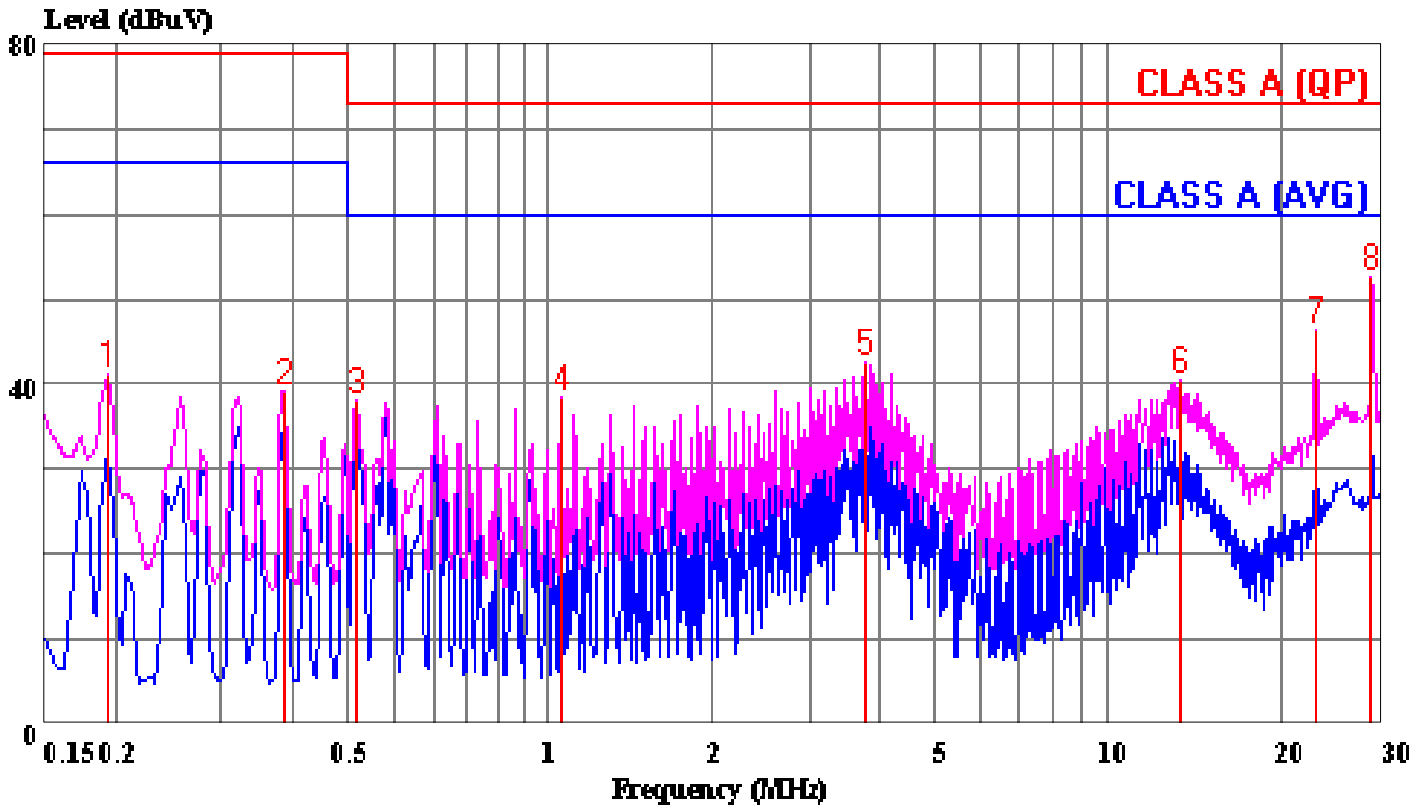
## **APPENDIX 4**

### **CONDUCTED EMISSION PLOT RADIATED EMISSION DATA**



Data#: 37 File#: 9958f.EMI

Date: 2002-02-21 Time: 22:15:32



(CES Conducted)

Trace: 7 8

Ref Trace:

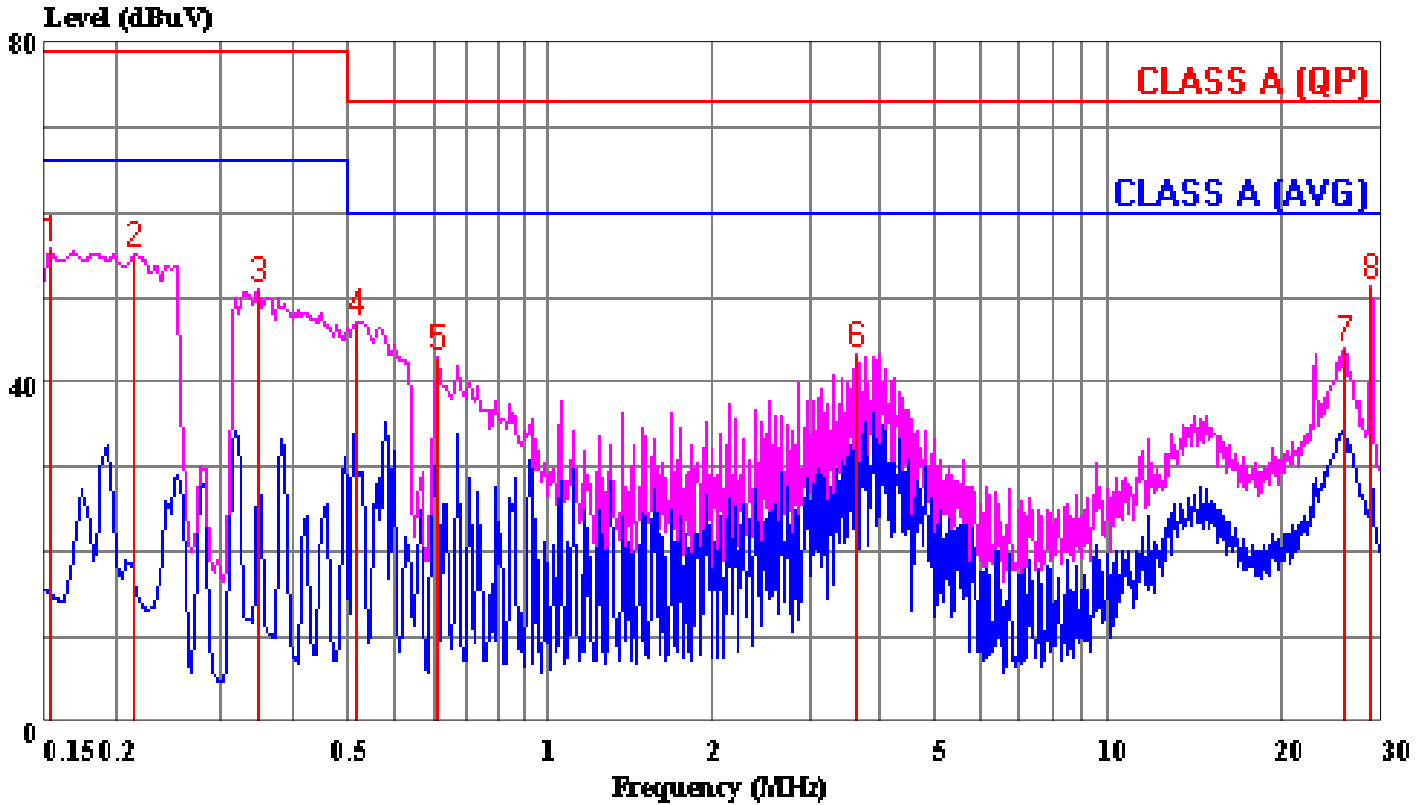
Condition: LINE  
Report No. : 02E9958  
Test Engr. : JAMES LIAO  
Company : AAEON Technology Inc.  
EUT : AMB-2457HTT  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT  
Mode of Op. : 1024X768(Worst)

Page: 1

	Read		Limit	Over		
Freq	Level	Factor	Level	Limit	Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.192	41.32	0.02	41.34	79.00	-37.66 Peak
2	0.389	39.23	0.05	39.28	79.00	-39.72 Peak
3	0.516	37.88	0.05	37.93	73.00	-35.07 Peak
4	1.160	38.38	0.09	38.47	73.00	-34.53 Peak
5	3.881	42.40	0.22	42.62	73.00	-30.38 Peak
6	13.479	40.22	0.38	40.60	73.00	-32.40 Peak
7	23.018	46.03	0.48	46.51	73.00	-26.49 Peak
8	28.755	52.23	0.53	52.76	73.00	-20.24 Peak

Data#: 38 File#: 9958f.EMI

Date: 2002-02-21 Time: 22:43:12



(CES Conducted)

Trace: 31 32

Ref Trace:

Condition: NEUTRAL  
Report No. : 02E9958  
Test Engr. : JAMES LIAO  
Company : AAEON Technology Inc.  
EUT : AMB-2457HTT  
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			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.153	55.67	0.02	55.69	79.00	-23.31 Peak
2	0.213	55.13	0.02	55.15	79.00	-23.85 Peak
3	0.348	50.98	0.04	51.02	79.00	-27.98 Peak
4	0.516	46.99	0.05	47.04	73.00	-25.96 Peak
5	0.708	43.03	0.06	43.10	73.00	-29.90 Peak
6	3.740	43.12	0.22	43.34	73.00	-29.66 Peak
7	26.001	43.53	0.51	44.04	73.00	-28.96 Peak
8	28.755	50.83	0.53	51.36	73.00	-21.64 Peak



Data#: 33 File#: 9462f.EMI  
Compliance E-Site

Date: 2002-02-19 Time: 02:19:34

Condition: VERTICAL / 10m  
Report No. : 02E9958  
Test Engr. : Vince Chiang  
Company : AAEON Technology Inc.  
EUT : AMB-2457HTT  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT  
Mode of Op. : 1024 X 768(Worst)

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	32.470	41.90	-8.53	33.37	40.00	-6.63	Peak
2	43.820	49.01	-13.05	35.96	40.00	-4.04	QP
3	51.980	51.03	-14.52	36.51	40.00	-3.49	QP
4	71.470	49.00	-17.48	31.52	40.00	-8.48	Peak
5	77.980	50.30	-17.53	32.77	40.00	-7.23	Peak
6	84.460	49.10	-16.95	32.15	40.00	-7.85	Peak
7	110.455	48.40	-15.45	32.95	40.00	-7.05	Peak
8	116.960	46.30	-15.77	30.53	40.00	-9.47	Peak
9	129.980	44.00	-16.25	27.75	40.00	-12.25	Peak
10	149.460	43.60	-14.66	28.94	40.00	-11.06	Peak
11	178.810	49.20	-12.45	36.75	40.00	-3.25	Peak
12	200.460	44.00	-11.75	32.25	40.00	-7.75	Peak
13	207.760	43.90	-11.16	32.74	40.00	-7.26	Peak
14	227.450	38.70	-9.69	29.01	40.00	-10.99	Peak
15	259.900	41.30	-7.78	33.52	47.00	-13.48	Peak
16	305.440	42.00	-7.04	34.96	47.00	-12.04	Peak
17	367.540	38.80	-5.34	33.46	47.00	-13.54	Peak
18	409.350	38.70	-4.33	34.37	47.00	-12.63	Peak
19	467.960	41.50	-3.55	37.95	47.00	-9.05	Peak
20	602.200	35.60	-0.58	35.02	47.00	-11.98	Peak

Data#: 35 File#: 9462f.EMI  
Compliance E-Site

Date: 2002-02-19 Time: 02:25:43

Condition: HORIZONTAL / 10m  
Report No. : 02E9958  
Test Engr. : VINCE CHIANG  
Company : AAEON Technology Inc.  
EUT : AMB-2457HTT  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS A W/ EN 55022 CLASS A LIMIT  
Mode of Op. : 1024 X 768(Worst)

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	40.200	43.50	-10.89	32.61	40.00	-7.39	Peak
2	46.600	46.80	-13.83	32.98	40.00	-7.02	Peak
3	52.650	45.50	-14.75	30.75	40.00	-9.25	Peak
4	84.490	44.10	-16.95	27.15	40.00	-12.85	Peak
5	110.470	47.90	-15.45	32.45	40.00	-7.55	Peak
6	123.490	43.00	-16.39	26.61	40.00	-13.39	Peak
7	129.980	48.80	-16.25	32.55	40.00	-7.45	Peak
8	149.440	44.60	-14.66	29.94	40.00	-10.06	Peak
9	181.980	46.20	-12.22	33.98	40.00	-6.02	Peak
10	200.450	46.80	-11.75	35.05	40.00	-4.95	Peak
11	207.960	48.00	-11.16	36.84	40.00	-3.16	Peak
12	227.470	40.80	-9.69	31.11	40.00	-8.89	Peak
13	259.960	42.00	-7.78	34.22	47.00	-12.78	Peak
14	305.430	43.10	-7.04	36.06	47.00	-10.94	Peak
15	367.520	33.30	-5.34	27.96	47.00	-19.04	Peak
16	409.410	35.60	-4.33	31.27	47.00	-15.73	Peak
17	467.980	36.30	-3.55	32.75	47.00	-14.25	Peak

Data#: 8 File#: 9958g.emi  
CES Chamber

Date: 2002-02-18 Time: 04:38:47

Condition: VERTICAL / 3m  
Report No. : 02E9958  
Test Engr. : VINCE CHIANG  
Company : AAENO Technology Inc.  
EUT : AMB-2457HTT  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: FCC CLASS A W/ Limit + 20log(10/3)  
Mode of Op. : 1-5G / All Test Datas Under Average Limi

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	4132.700	39.80	-0.39	39.41	80.00	-40.59	Peak
2	4577.900	39.74	-0.08	39.66	80.00	-40.34	Peak
3	4657.700	39.99	0.19	40.18	80.00	-39.82	Peak
4	4741.700	40.32	0.47	40.79	80.00	-39.22	Peak
5	4840.400	40.40	0.80	41.20	80.00	-38.80	Peak
6	4934.900	40.97	1.12	42.08	80.00	-37.92	Peak

Data#: 2 File#: 9958g.emi  
CES Chamber

Date: 2002-02-18 Time: 04:32:56

Condition: HORIZONTAL / 3m  
Report No. : 02E9958  
Test Engr. : VINCE CHIANG  
Company : AAENO Technology Inc.  
EUT : AMB-2457HTT  
Test Config : EUT/ALL PERIPHERALS  
Type of Test: FCC CLASS A W/ Limit + 20log(10/3)  
Mode of Op. : 1-5G / All Test Datas Under Averager Lim

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1478.800	41.69	-10.61	31.08	80.00	-48.92	Peak
2	1986.100	39.88	-8.11	31.77	80.00	-48.23	Peak
3	2267.300	38.71	-7.00	31.70	80.00	-48.30	Peak
4	2660.600	38.55	-5.35	33.20	80.00	-46.80	Peak
5	2704.300	39.49	-5.15	34.34	80.00	-45.66	Peak
6	2846.800	39.31	-4.51	34.80	80.00	-45.20	Peak