

# FCC 47 CFR PART 18

# **TEST REPORT**

For

# **Smart Medical Terminal**

# Model: ONYX-217; ONYX-215; ONYX-219

**Trade Name: AAEON** 

Issued to

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

Issued by



Compliance Certification Services Inc. Hsintien Lab. No. 163-1, Chunghsen Road, Hsintien City Taipei Hsien, Taiwan TEL: (02) 2217-0894 FAX: (02) 2217-1029

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# **1 TEST RESULT CERTIFICATION**

Applicant:	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.
Manufacturer:	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.
Equipment Under Test:	Smart Medical Terminal
Trade Name:	AAEON
Model:	ONYX-217; ONYX-215; ONYX-219
Detailed EUT Description:	See Item 2 of this report
Date of Test:	February 24, 2006 ~ November 14, 2006

Applicable Standard	Class / Limit	Test Result		
FCC Part 18		No non-compliance noted		
Deviation from Applicable Standard				
None				

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC Rules and Regulations Part 18 and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

Approved by:

David Wang Manager of Hsintien Laboratory Compliance Certification Services Inc.

Reviewed by:

Vince Chiang Assistant Manager of Hsintien Laboratory Compliance Certification Services Inc.



# **2 EUT DESCRIPTION**

Product	Smart Medical Terminal
Trade Name	AAEON
Model	ONYX-217; ONYX-215; ONYX-219
Housing Type	Plastic
EUT Power Rating	12VDC from AC Adaptor
AC Power During Test	120VAC / 60Hz to AC Adaptor
AC Adaptor Manufacturer	EDAC
AC Adaptor Model Number	EA1050A-120
AC Adaptor Power Rating	I/P: 100-240VAC, 50-60Hz O/P: 12VDC
AC Power Cord Type	Unshielded, 1.8m (Detachable)
DC Power Cord Type	Unshielded, 1.2m (Non-detachable, with a core)
<b>OSC/Clock Frequencies</b>	30MHz; 12MHz; 32.768kHz

#### **EUT DIFFERENCE**

	Model Name	Differences	Tested (Checked)
Original	ONYX-217	17" TFT LCD	$\boxtimes$
Additional	ONYX-215	15" TFT LCD	$\boxtimes$
Auuitionai	ONYX-219	19" TFT LCD	$\boxtimes$

## I/O PORT OF EUT

I/O PORT TYPE	Q' TY	<b>TESTED WITH</b>
1). VIDEO IN Port (VGA)	1	1
2). VIDEO IN Port (DVI)	1	1
3). AUDIO IN Port	1	1
4). USB Port	4	4
5). SD Slot	1	1
6). SM Slot	1	1
7). MS Slot	1	1
8). CF Slot	1	1

Note: None.



# **3 TEST METHODOLOGY**

# 3.1 EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
- 3. Run Winemc.exe and choose media player to play music.
- 4. Run Winemc.exe then select "E:/ & F:/ & G:/ & H:/ & I:/ & J:/ & K:/" to test USB 2.0 Ports.

Note: Test program is self-repeating throughout the test.

## **3.2 DECISION OF FINAL TEST MODE**

1. The following test mode(s) were scanned during the preliminary test:

1         D-SUB / 1280X1024, VF=60Hz           2         D-SUB / 800X600, VF=75Hz           3         D-SUB / 800X600, VF=75Hz           4         DVI / 1280X1024, VF=60Hz           5         DVI / 800X600, VF=75Hz           5         D-SUB / 1024X768, VF=60Hz           6         D-SUB / 800X600, VF=75Hz           7         D-SUB / 800X600, VF=75Hz           8         DVI / 1024X768, VF=60Hz           9         DVI / 800X600, VF=75Hz           9         DVI / 800X600, VF=60Hz           10         DVI / 1280X1024, VF=60Hz           11         D-SUB / 1280X1024, VF=60Hz           12         D-SUB / 1024X768, VF=60Hz	-		
3       ONYX-217       DVI / 1280X1024, VF=60Hz         4       DVI / 800X600, VF=75Hz         5       D-SUB / 1024X768, VF=60Hz         6       ONYX-215       D-SUB / 800X600, VF=75Hz         7       DVI / 1024X768, VF=60Hz         8       DVI / 1024X768, VF=60Hz         9       DVI / 800X600, VF=75Hz         9       DVI / 1280X1024, VF=60Hz         10       ONYX-219         11       ONYX-219	1		D-SUB / 1280X1024, VF=60Hz
3       DVI / 1280X1024, VF=60Hz         4       DVI / 800X600, VF=75Hz         5       D-SUB / 1024X768, VF=60Hz         6       D-SUB / 800X600, VF=75Hz         7       DVI / 1024X768, VF=60Hz         8       DVI / 1024X768, VF=60Hz         9       DVI / 800X600, VF=75Hz         9       DVI / 1024X768, VF=60Hz         10       ONYX-219         11       D-SUB / 1280X1024, VF=60Hz         D-SUB / 1024X768, VF=60Hz	2	ONIVY 217	D-SUB / 800X600, VF=75Hz
5       D-SUB / 1024X768, VF=60Hz         6       D-SUB / 800X600, VF=75Hz         7       D-SUB / 800X600, VF=75Hz         8       DVI / 1024X768, VF=60Hz         9       DVI / 800X600, VF=75Hz         9       DVI / 1280X1024, VF=60Hz         10       D-SUB / 1280X1024, VF=60Hz         11       D-SUB / 1024X768, VF=60Hz	3	UN1A-217	DVI / 1280X1024, VF=60Hz
6       D-SUB / 800X600, VF=75Hz         7       D-SUB / 800X600, VF=75Hz         8       DVI / 1024X768, VF=60Hz         9       DVI / 800X600, VF=75Hz         9       DVI / 1280X1024, VF=60Hz         10       D-SUB / 1280X1024, VF=60Hz         11       D-SUB / 1024X768, VF=60Hz	4		DVI / 800X600, VF=75Hz
7       ONYX-215         8       DVI / 1024X768, VF=60Hz         9       DVI / 800X600, VF=75Hz         9       DVI / 1280X1024, VF=60Hz         10       D-SUB / 1280X1024, VF=60Hz         11       D-SUB / 1024X768, VF=60Hz	5	ONYX-215	D-SUB / 1024X768, VF=60Hz
7         DVI / 1024X768, VF=60Hz           8         DVI / 800X600, VF=75Hz           9         DVI / 1280X1024, VF=60Hz           10         D-SUB / 1280X1024, VF=60Hz           11         D-SUB / 1024X768, VF=60Hz	6		D-SUB / 800X600, VF=75Hz
9         DVI / 1280X1024, VF=60Hz           10         D-SUB / 1280X1024, VF=60Hz           11         D-SUB / 1024X768, VF=60Hz	7		DVI / 1024X768, VF=60Hz
10         D-SUB / 1280X1024, VF=60Hz           11         ONYX-219         D-SUB / 1024X768, VF=60Hz	8		DVI / 800X600, VF=75Hz
11         ONYX-219           11         D-SUB / 1024X768, VF=60Hz	9		DVI / 1280X1024, VF=60Hz
11 D-SUB / 1024X768, VF=60Hz	10	ONYX-219	D-SUB / 1280X1024, VF=60Hz
12 D-SUB / 800X600, VF=60Hz	11		D-SUB / 1024X768, VF=60Hz
	12		D-SUB / 800X600, VF=60Hz

## Mode(s):

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

### Conduction: Mode 5

### Radiation: Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items.



# **4** SETUP OF EQUIPMENT UNDER TEST

#### Setup Diagram

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

#### **Support Equipment**

#### **Peripherals Devices:**

No	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade Name	Data Cable	Power Cord
1	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
2	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
3	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
4	PS/2 Mouse	M071KC	443029438	BSMI: R41108 DoC	DELL	Shielded, 1.8m	N/A
5	PS/2 Keyboard	SK-8110	N/A	BSMI: T3A002 DoC	DELL	Shielded, 1.8m	N/A
6	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8 m	Unshielded, 1.8m
7	Host PC	P Evo D510C	7308-KN8Z-0010	BSMI ID: 3912Q007	COMPAQ	DVI: Shielded, 1.8m with two cores D-SUB: Shielded, 1.8m with two cores Audio: Unshielded, 1.8m USB: Shielded, 1.8m	Unshielded, 1.8m
8	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 1.1 m	Unshielded, 1.8m
9	SD Card	N/A	N/A	N/A	N/A	N/A	N/A
10	SM Card	N/A	N/A	N/A	N/A	N/A	N/A
11	MS Card	N/A	N/A	N/A	N/A	N/A	N/A
12	CF Card	N/A	N/A	N/A	N/A	N/A	N/A

*Note:* All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test. *Grounding:* Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.



# **5** FACILITIES AND ACCREDITATIONS

# **5.1 FACILITIES**

All measurement facilities used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 163-1, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

# 5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

This accredited organization maintains A2LA accreditation to ISO/IEC 17025 for the specific test listed in A2LA Certificate # 0824-01. The test results included in this report, however, are not covered by this accreditation.

Country Agency		Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2.	ACCREDITED No. 0824-01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	<b>FCC</b> 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	<b>VCCI</b> R-2265/1630~4 C-1882/2146
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cispr 16-1/2/3/4	ELA 103
Taiwan	CNLA	47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142	TAF Initial Laboratory 1108
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439	武上2-IN-E-0005     SL2-A1-E-0005     SL2-R1-E-0005     SL2-R2-E-0005     SL2-R2-E-0005
Canada	Industry Canada	RSS212, Issue 1	Canada IC 5742

*Note:* No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.



# 6 INSTRUMENT AND CALIBRATION

## 6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

# 6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

	Open Area Test Site # I					
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE		
<b>SITE NSA</b>	CCS	I Site	N/A	10/14/2006		
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	06/27/2006		
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required		
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/23/2006		
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/08/2006		
CABLE	BELDEN	9913	N-TYPE #I2	02/17/2007		
ATTENUATOR	MCL	UNAT-6	AT06-3	10/08/2006		
THERMO- HYGRO METER	TFA	N/A	NO.2	11/02/2006		
		Above 1GHz Use	d			
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	06/30/2006		
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/12/2007		
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	02/06/2007		
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	02/06/2007		
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	02/06/2007		
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	02/06/2007		

#### **Equipment Used for Emission Measurement**

*Note:* The measurement uncertainty is less than +/- 3.36dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.



Conducted Emission Test Site # A				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
TEST RECEIVER	R&S	ESHS20	840455/006	02/06/2007
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	01/02/2007
LISN	SOLAR	8012-50-R-24-BNC	8305114	01/02/2007
BNC CABLE	JYE BAO	RG-223/U	BNCA2	10/08/2006
THERMO- HYGRO METER	TOP	HA-202	9303-1	02/22/2007

*Note:* The measurement uncertainty is less than +/-2.83dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

# 7 LINE CONDUCTED & RADIATED EMISSION TEST

## **7.1 LIMIT**

### Maximum permissible level of Line Conducted Emission

Frequency	(dBuV)		
(MHZ)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

\* Decreases with the logarithm of the frequency.

### Maximum permissible level of Radiated Emission measured at 3meter

Frequency (MHZ)	Maximum Field Strength Limit (dBu V/m/ Q.P.)			
30-88	40			
88-216	43.5			
216-960	46			
Above 960	53.9			

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



## 7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

### **Procedure of Preliminary Test**

- The EUT was set up as per the test configuration to simulate typical 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.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC power, 120VAC/60Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a EMI Test 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 the 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 Receiver.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission level were recorded for reference of the final test.



## Procedure of Final Test

- EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.
- 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 AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

### **Data Sample:**

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)	Line (L1/L2)
X.XX	42.95	0.55	43.50	56	-12.50	Q	L1

Freq.	= Emission frequency in MHz
Read Level	= Uncorrected Analyzer/Receiver reading
Factor	= Insertion loss of LISN + Cable Loss
Level	= Read Level + Factor
Limit	= Limit stated in standard
Over Limit	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
L1	= Hot side
L2	= Neutral side

### **Calculation Formula**

Over Limit (dB) = Level (dBuV) - Limit (dBuV)



## 7.3 TEST PROCEDURE OF RADIATED EMISSION

### **Procedure of Preliminary Test**

- The equipment was set up as per the test configuration to simulate typical 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. 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.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120VAC/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT and loop antenna to 360 degrees, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.



## **Procedure of Final Test**

- EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT and loop antenna to 360 degrees, varying cable placement, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 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 Q.P. reading is presented.
- The test data of the worst case condition(s) was recorded.

### **Data Sample:**

Freq. MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Over Limit dB	Reading Type (P/Q/A)	Pol. (H/V)
X.XX	14.0	12.2	26.2	43.5	-17.3	Q	Н

Freq.	= Emission frequency in MHz
Read Level	= Uncorrected Analyzer/Receiver reading
Factor	= Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
Level	= Read Level + Factor
Limit	= Limit stated in standard
Over Limit	= Reading in reference to limit
Р	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
Н	= Antenna Polarization: Horizontal
V	= Antenna Polarization: Vertical

### **Calculation Formula**

Over Limit (dB) = Level (dBuV/m) – Limit (dBuV/m)



# 7.4 TEST RESULTS

## **Line Conducted Emission**

Model: ONYX-215

**Temperature:** 21°C

Test Results: Passed

Test Mode: Mode 5 Humidity: 62% RH Tested by: MARK HSU

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

Six Highest Conducted Emission Readings								
Frequency Range Investigated			150 kHz to 30 MHz					
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)	
2.794	39.13	0.25	39.38	56.00	-16.62	Р	L1	
3.190	38.78	0.28	39.06	56.00	-16.94	Р	L1	
0.178	50.38	0.13	50.51	64.59	-14.08	Р	L2	
2.794	45.48	0.25	45.73	56.00	-10.27	Р	L2	
3.074	45.48	0.27	45.75	56.00	-10.25	Р	L2	
4.027	41.87	0.32	42.16	56.00	-13.84	Р	L2	

**NOTE:** 1. The emission level was or more than 2dB below the Average limit, so no re-check anymore. 2. 0.15MHz to 30MHz test is Applicable Part 15.107 standard.



### **Radiated Emission**

Model: ONYX-217

**Temperature:** 23°C

Test Results: Passed

Test Mode: Mode 1

Humidity: 68% RH

### Tested by: MARK HSU

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

Six Highest Radiated Emission Readings									
Frequency Range Investigated			30 MHz to 1000 MHz at 3m						
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Pol. (H/V)		
480.150	44.00	-1.60	42.40	46.00	-3.60	Q	V		
192.019	45.00	-11.18	33.82	43.50	-9.68	Q	Н		
240.030	47.50	-8.19	39.31	46.00	-6.67	Q	Н		
480.112	42.50	-1.60	40.90	46.00	-5.10	Q	Н		
720.043	37.61	1.86	39.46	46.00	-6.54	Q	Н		
960.229	40.10	5.72	45.82	54.00	-8.18	Q	Η		

NOTE: 1. 30MHz to 1000MHz test is Applicable Part 15.109 standard.

2. The test results are measured by 10m, which translate to 3m as the following calculation: 3m Radiated emission = 10m Radiated emission + 20 log (10/3).



# **APPENDIX I - PHOTOGRAPHS OF TEST SETUP**

# LINE CONDUCTED EMISSION TEST







# **RADIATED EMISSION TEST**



