

APPLICATION FOR CERTIFICATION

On Behalf of

Wacom Co., Ltd.

LCD Tablet

Model No. : DTU-2231A

FCC ID : HV4DTU2231A

Brand : Wacom

REF. No.: KH-10461

Prepared for : Wacom Co., Ltd.
2-510-1, Toyonodai, Otone-machi,
Kitasaitama-gun, Saitama 349-1148, Japan

Prepared by : AUDIX Technology Corporation
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TABLE OF CONTENTS

Description	Page
TEST REPORT CERTIFICATION	3
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT).....	4
1.2. Tested Supporting System Details.....	5
1.3. Description of Test Facility	6
1.4. Measurement Uncertainty.....	6
2. POWERLINE CONDUCTED EMISSION MEASUREMENT.....	7
2.1. Test Equipment.....	7
2.2. Block Diagram of Test Setup.....	7
2.3. Powerline Conducted Emission Limit	7
2.4. Operating Condition of EUT	8
2.5. Test Procedure	8
2.6. Powerline Conducted Emission Measurement Results.....	8
3. RADIATED EMISSION MEASUREMENT	11
3.1. Test Equipment.....	11
3.2. Test Setup	11
3.3. Radiated Emission Limits (§15.209)	13
3.4. Operating Condition of EUT	13
3.5. Test Procedure	14
3.6. Test Results.....	15
4. PHOTOGRAPHS	19
4.1. Photos of Conducted Disturbance Measurement.....	19
4.2. Photos of Radiated Measurement at Semi-Anechoic Chamber	20

TEST REPORT CERTIFICATION

Applicant : Wacom Co., Ltd.
 Manufacturer #1 : Qisda Optronics (Suzhou) Co., Ltd.
 Manufacturer #2 : Qisda Corporation
 EUT Description : LCD Tablet
 FCC ID : HV4DTU2231A
 (A) Model No. : DTU-2231A
 (B) Serial No. : N/A
 (C) Brand : Wacom
 (D) Ref. No. : KH-10461
 (E) Power Supply : DC 5V
 (F) Test Voltage : AC 120V/60Hz (Via AC Adapter)

Measurement Procedure Used:

Industry Canada Rules and Regulations RSS-Gen (Issue 2), June 2007 and RSS-210 (Issue 7), June 2007

FCC RULES AND REGULATIONS PART 15 SUBPART C, July. 2008
AND ANSI C63.4/2003

(Canada RSS-210 §Annex 2.2 and FCC CFR 47 Part 15C, §15.207 and §15.209 and §15.221)

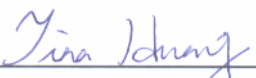
The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 Subpart C and Canada RSS-210 (Issue 7) Annex 2.2. limits.


The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the requirements of FCC Part 15 and Industry Canada RSS-Gen, RSS-210 standards.

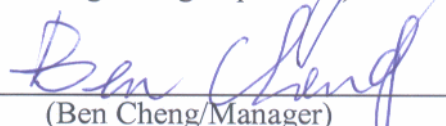
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test : Jan. 04 ~ 05, 2010

Date of Report : Jan. 07, 2010

Producer : 
 (Tina Huang/Administrator)

Review : 
 (Henning Chang/Supervisor)

Signatory : 
 (Ben Cheng/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	LCD Tablet (The EUT is a LCD Tablet, which is transceiver. The pen will be sold together with the EUT)
Model Number	:	DTU-2231A
Serial Number	:	N/A
Brand	:	Wacom
Ref. No	:	KH-10461
FCC ID	:	HV4DTU2231A
Applicant	:	Wacom Co., Ltd. 2-510-1, Toyonodai, Otone-machi, Kitasaitama-gun, Saitama 349-1148, Japan
Manufacturer #1	:	Qisda Optronics (Suzhou) Co., Ltd. 169, Zhujiang Road, New District, Suzhou, Jiangsu Province, P.R. China
Manufacturer #2	:	Qisda Corporation 157, Shan-Ying Road, Gueishan, Taoyuan, 333 Taiwan
Frequency	:	531.25kHz、562.50kHz、593.75kHz
Number of Channel	:	3
LCD Panel	:	AU Optronics (AUO), M/N M215HW01
Pen	:	Wacom, M/N UP-817E/UP-818E (P/N: UP-817E-80A-1/UP-818E-87A-1)
AC Adapter	:	EDACPOWER, M/N: EA10521C-120 AC Input: AC 100-240V~, 1.8A, 50/60Hz DC Input: DC 12V, 5A Cord: Non-Shielded, Undetachable, 1.2m Bonded a ferrite core

Power Cord : Non-Shielded, Detachable, 1.8m

Date of Receipt of Sample : Nov. 18, 2009

Date of Test : Jan. 04 ~ 05, 2009

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number : Aspire X3600

Serial Number : PTS960X04283304E2F2700

FCC ID : By DoC

BSMI ID : R33142

Manufacturer : ACER (Brand: ACER)

DVI→DVI Cable : Shielded, Detachable, 2.0m
Bonded a ferrite core

USB Cable : Non-Shielded, Detachable, 2.0m

Power Cord : Non-Shielded, Detachable, 1.8m

1.2.2. USB MOUSE

Model Number : MOC5UO

Serial Number : HOV055B6

FCC ID : By DoC

BSMI ID : R41108

Manufacturer : DELL (Brand: DELL)

Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.3. USB KEYBOARD

Model Number : SK-8115

Serial Number : CN-ONM433-71616-7C5-0A40

FCC ID : By DoC

BSMI ID : T3A002

Manufacturer : DELL (Brand: DELL)

Data Cable : Shielded, Undetachable, 2.0m
Bonded a ferrite core

1.3. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan

Test Location & Facility (C2/AC) : **No. 2 Shielded Room**
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan.

Semi-Anechoic Chamber
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan.

May 15, 2006 File on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB

Remark : Uncertainty = $ku_c(y)$

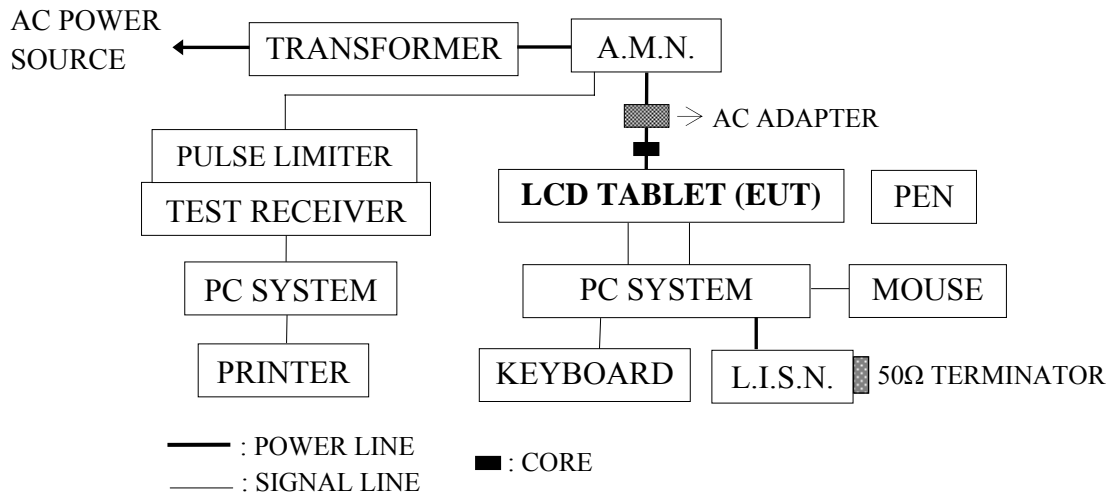
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment were used during the conducted measurement:
(No. 2 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100339	Mar. 05, 09'	Mar. 04, 10'
2.	A.M.N.	R & S	ESH2-Z5	890485/023	Jan. 14, 09'	Jan. 13, 10'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	Mar. 09, 09'	Mar. 08, 10'
4.	Pulse Limiter	R&S	ESH3-Z2	001	Feb. 20, 09'	Feb. 19, 10'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Set up the EUT and simulator as shown on 2.2.
- 2.4.2. To turn on the power of all equipment.
- 2.4.3. The EUT was continuously transmitting frequency to pen during testing.
- 2.4.4. The other peripheral devices were driven and operated in turn during all testing.

2.5. Test Procedure

The EUT was put on table which was above the ground by 80cm and AC adapter's power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Powerline Conducted Emission Measurement Results

PASSED.

(All the emissions not reported below are too low against the prescribed limits.)

EUT was performed during this section testing and all the test results are attached in next pages.

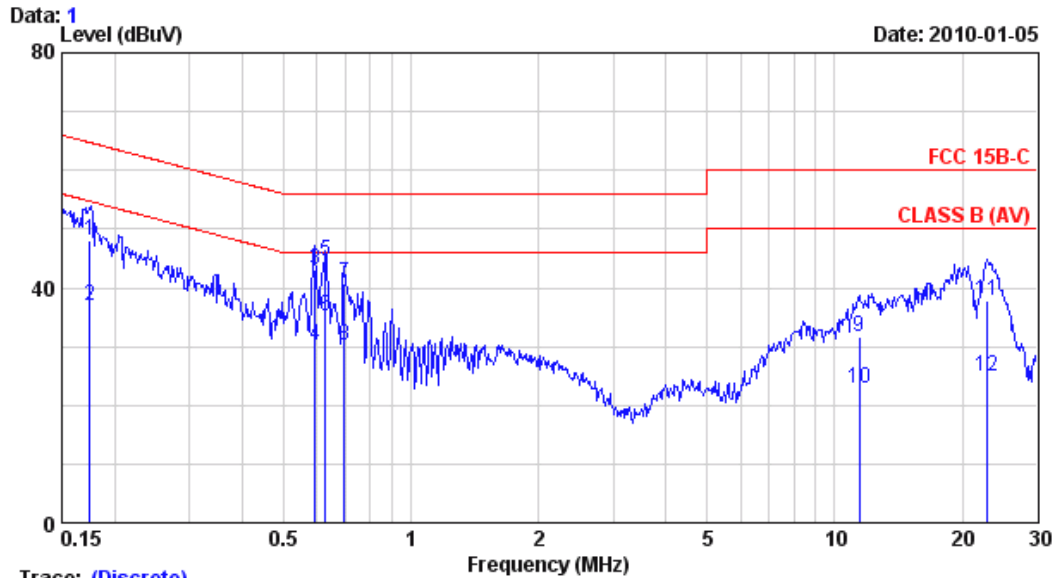
EUT : LCD Tablet M/N : DTU-2231A

Test Date : Jan. 05, 2010 Temperature : 18°C Humidity : 64%

Reference Test Data No.: Neutral: # 1 ; Line: # 2



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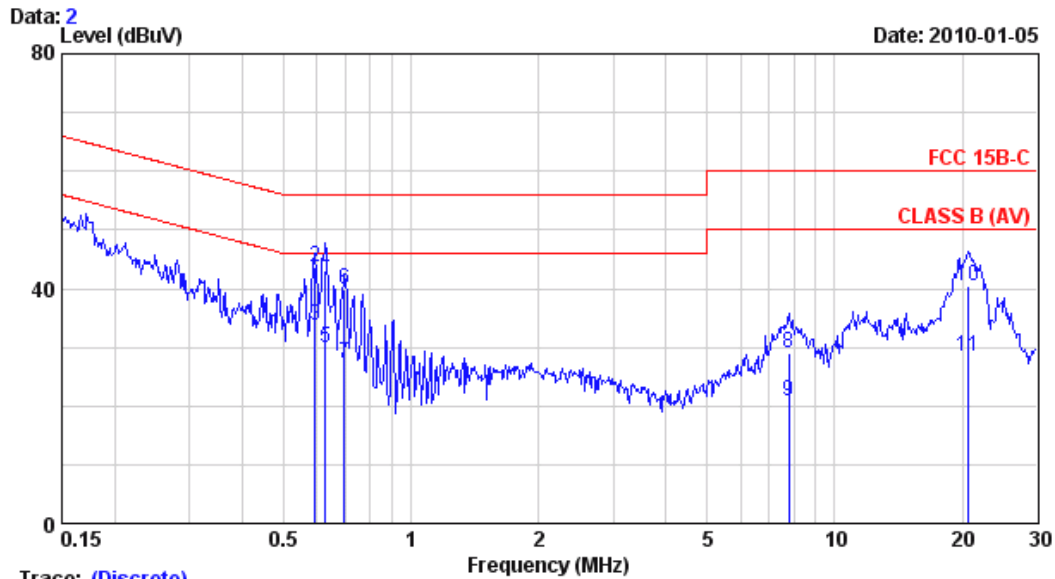
Trace: (Discrete)
 Site : No.2 Shielded room Data : 1
 Condition : ESH2-Z5 Phase : NEUTRAL
 Limit : FCC 15B-C
 Env. / Ins. : 18°C,64% / ESCS 30 (339) Engineer: Albert_Liang
 EUT : LCD TABLET
 Power Rating : 120Vac/60Hz M/N:CDTU-2231A
 Test Mode : operating

	LISN		Cable		Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dBμV)	Level (dBμV)	(dBμV)	(dB)			
1	0.175	0.10	0.25	47.68	48.03	64.72	16.69	QP	
2	0.175	0.10	0.25	36.49	36.84	54.72	17.88	AVERAGE	
3	0.594	0.14	0.35	42.59	43.09	56.00	12.91	QP	
4	0.594	0.14	0.35	29.77	30.27	46.00	15.73	AVERAGE	
5	0.627	0.15	0.36	44.02	44.53	56.00	11.47	QP	
6	0.627	0.15	0.36	34.74	35.25	46.00	10.75	AVERAGE	
7	0.697	0.16	0.37	40.33	40.86	56.00	15.14	QP	
8	0.697	0.16	0.37	29.54	30.07	46.00	15.93	AVERAGE	
9	11.440	0.33	0.70	30.51	31.54	60.00	28.46	QP	
10	11.440	0.33	0.70	21.80	22.83	50.00	27.17	AVERAGE	
11	22.900	0.50	0.70	36.54	37.74	60.00	22.26	QP	
12	22.900	0.50	0.70	23.64	24.84	50.00	25.16	AVERAGE	

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
 2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: (Discrete)
 Site : No.2 Shielded room Data : 2
 Condition : ESH2-Z5 Phase : LINE
 Limit : FCC 15B-C
 Env. / Ins. : 18°C,64% / ESCS 30 (339) Engineer: Albert_Liang
 EUT : LCD TABLET
 Power Rating : 120Vac/60Hz M/N:CDTU-2231A
 Test Mode : operating

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
1	0.150	0.10	0.24	43.37	43.71	66.00	22.29	QP
2	0.594	0.14	0.35	43.08	43.58	56.00	12.42	QP
3	0.594	0.14	0.35	33.20	33.70	46.00	12.30	AVERAGE
4	0.627	0.15	0.36	42.62	43.13	56.00	12.87	QP
5	0.627	0.15	0.36	29.24	29.75	46.00	16.25	AVERAGE
6	0.697	0.16	0.37	39.23	39.76	56.00	16.24	QP
7	0.697	0.16	0.37	26.68	27.21	46.00	18.79	AVERAGE
8	7.810	0.27	0.62	28.25	29.14	60.00	30.86	QP
9	7.810	0.27	0.62	19.90	20.79	50.00	29.21	AVERAGE
10	20.700	0.73	0.70	39.04	40.47	60.00	19.53	QP
11	20.700	0.73	0.70	27.09	28.52	50.00	21.48	AVERAGE

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

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

3.1.1. For Frequency Range 9kHz~30MHz (at Semi-Anechoic Chamber)

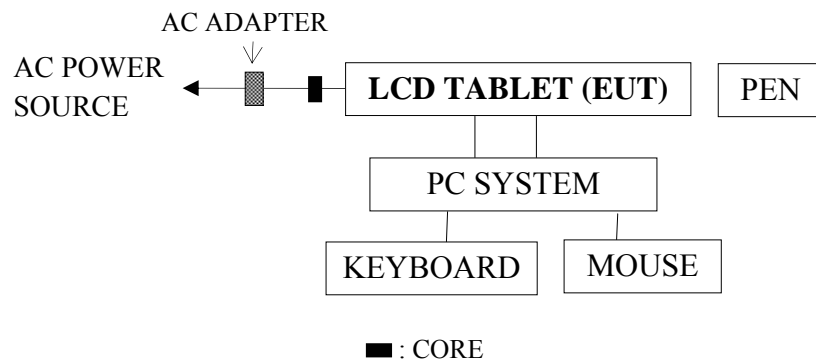
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun. 26, 09'	Jun. 25, 10'
2.	Test Receiver	R&S	ESCS30	100265	Aug. 28, 09'	Aug. 27, 10'
3.	Loop Antenna	EMCO	6507	N/A	Oct. 01, 09'	Sep. 30, 10'

3.1.2. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

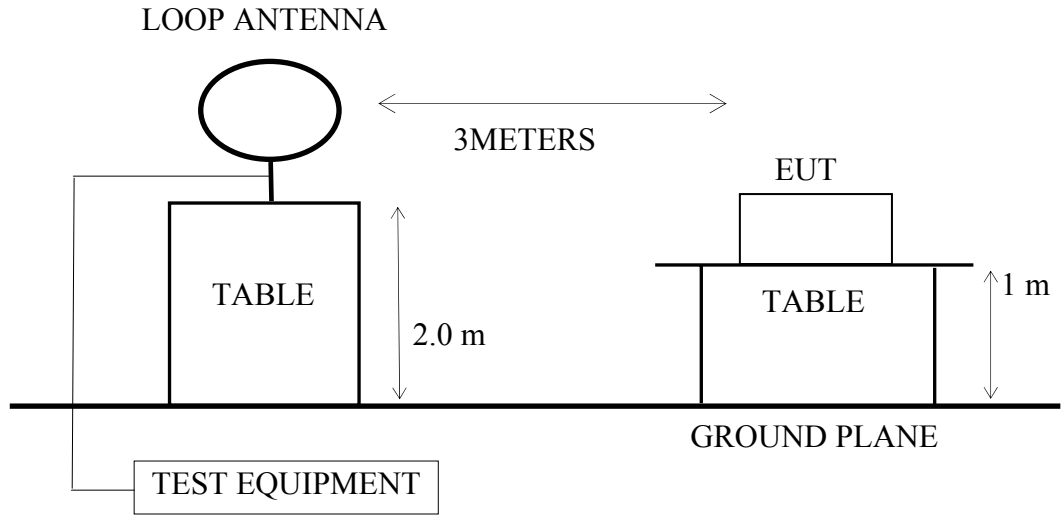
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun. 26, 09'	Jun. 25, 10'
2.	Test Receiver	R&S	ESCS30	100265	Aug. 28, 09'	Aug. 27, 10'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 04, 09'	Feb. 03, 10'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 20, 09'	Mar. 19, 10'
5.	Log Periodic Antenna	Schwarzbeck	UHALP910 8-A	0810	Mar. 20, 09'	Mar. 19, 10'

3.2. Test Setup

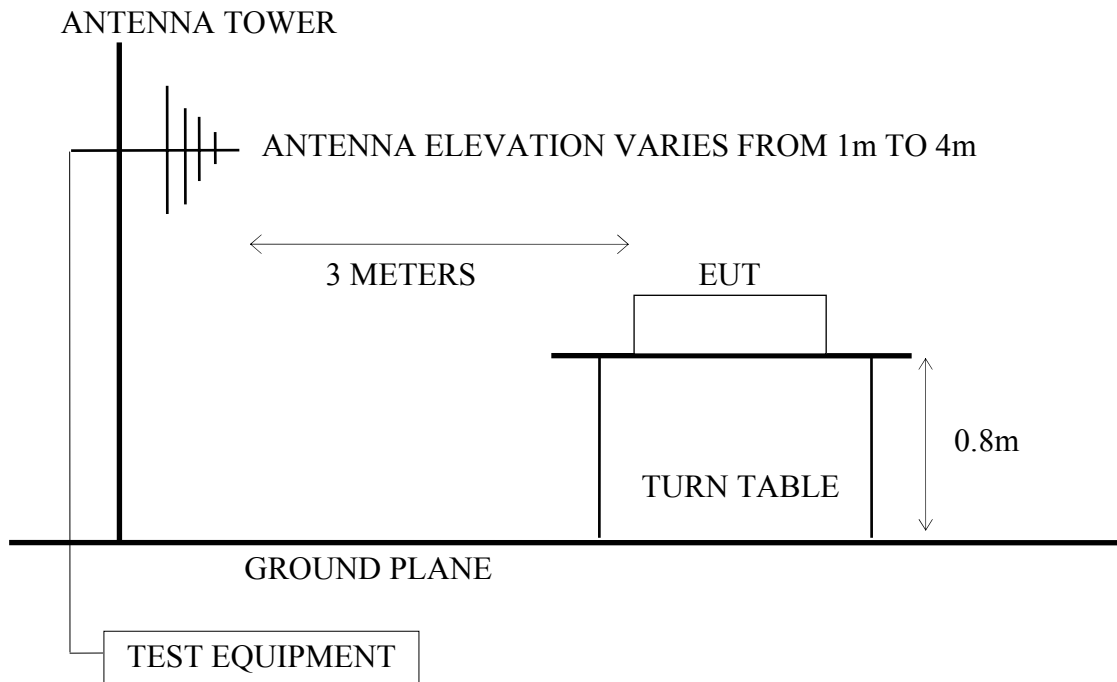
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber Setup Diagram (9kHz-30MHz, 3m)



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.3. Radiated Emission Limits (§15.209)

3.3.1. Frequency 9kHz-30MHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	
0.009-0.490	300	2400/F(kHz)	
0.490-1.705	30	24000/F(kHz)	
1.705-30.0	30	30	

Remark : (1) Limit ($\text{dB}\mu\text{V/m}$)= $20\log [24000/\text{F}(\text{kHz})]$ (The measurement distance at 30m)+ $40\log(30/3)$ (The measurement distance at 3m)

(2) The tighter limit applies at the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.3.2. Frequency Above 30MHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

Remark : (1) Emission level ($\text{dB}\mu\text{V/m}$) = $20\log$ Emission level ($\mu\text{V/m}$)

(2) The tighter limit applies at the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Operating Condition of EUT

Same as powerline conducted measurement which is listed in 2.4. except the test set up replaced by section 3.2.

3.5. Test Procedure

- 3.5.1. For Frequency Range 9kHz-30MHz which measurement distance was 3m at Semi-Anechoic Chamber:

The EUT was placed on a turn table which was 1 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the Loop Antenna which is mounted on table. The antenna is fixed, with the lower edge of the loop at 2m height above the floor to find out the maximum emission level.

The bandwidth of the R&S Test Receiver ESCS30 & the HP Spectrum Analyzer was set at 200Hz. (Frequency range 9kHz-150kHz)

The bandwidth of the R&S Test Receiver ESCS30 & the HP Spectrum Analyzer was set at 9kHz. (Frequency range 150kHz-30MHz)

The frequency range from 9kHz to 30MHz was pre-scanned with a peak detector. All the final readings from test receiver were measured with Quasi-Peak detector.

- 3.5.2. For Frequency Range 30-1000MHz which measurement distance was 3m at Semi-Anechoic Chamber:

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

3.6. Test Results

PASSED.

(All emissions not reported below are too low against the prescribed limits.)

EUT : LCD Tablet M/N : DTU-2231A

For Frequency Range 9kHz-30MHz:

The EUT with following test frequency was measured at Semi-Anechoic Chamber and all the test results are listed in section 3.6.1.

Test Date : Jan. 04, 2010 Temperature : 23°C Humidity : 60%

No.	Test Frequency
1.	531.25kHz
2.	562.50kHz
3.	593.75kHz

For Frequency Range 30~1000MHz:

The EUT was measured at Semi-Anechoic Chamber and all the test results are listed in section 3.6.2.

Test Date : Jan. 05, 2010 Temperature : 22°C Humidity : 54%

Reference Test Data No.: Horizontal: # 9 ; Vertical: # 7

3.6.1. Frequency Range 9kHz-30MHz Radiated Emission Measurement Results

Date of Test : Jan. 04, 2010 Temperature : 23°C

EUT : LCD Tablet, M/N DTU-2231A Humidity : 60%

Test Mode : Frequency: 531.25kHz

Frequency (kHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
531.25	41.37	73.10	-31.73
1062.50	32.34	67.08	-34.74
1593.75	30.00	63.56	-33.56
--	--	--	--

“--”The filed strength too low against the limit.

Date of Test : Jan. 04, 2010 Temperature : 23°C

EUT : LCD Tablet, M/N DTU-2231A Humidity : 60%

Test Mode : Frequency: 562.50kHz

Frequency (kHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
562.50	41.10	72.60	-31.50
1125.00	32.00	66.58	-34.58
1687.50	29.48	63.06	-33.58
--	--	--	--

“--”The filed strength too low against the limit.

Date of Test : Jan. 04, 2010 Temperature : 23°C

EUT : LCD Tablet, M/N DTU-2231A Humidity : 60%

Test Mode : Frequency: 593.75kHz

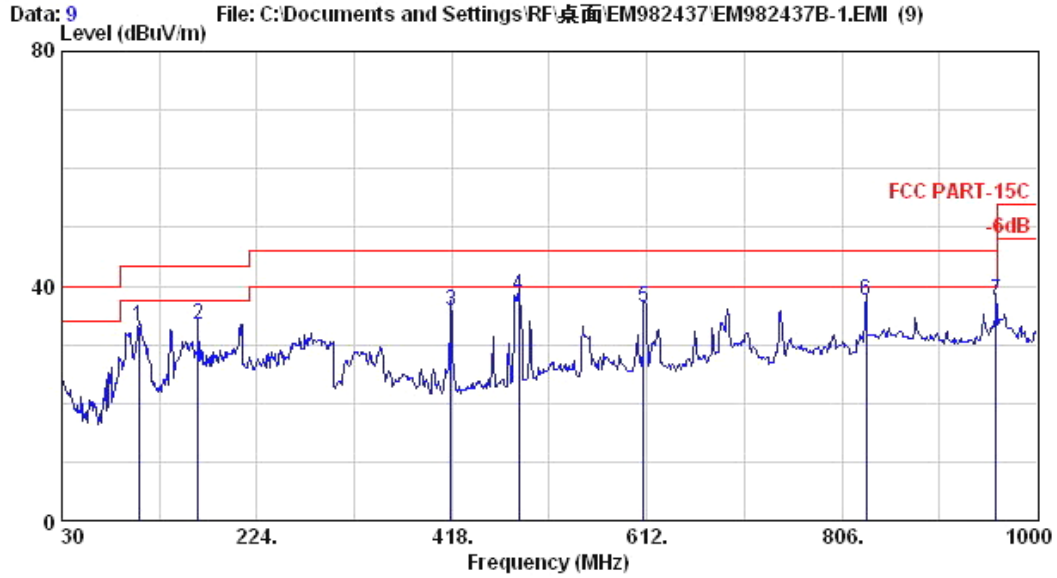
Frequency (kHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
593.75	41.67	72.13	-30.46
1187.50	31.86	66.11	-34.25
1781.25	28.04	62.59	-34.55
--	--	--	--

“--”The filed strength too low against the limit.

3.6.2. Frequency Range 30-1000MHz Radiated Emission Measurement Results



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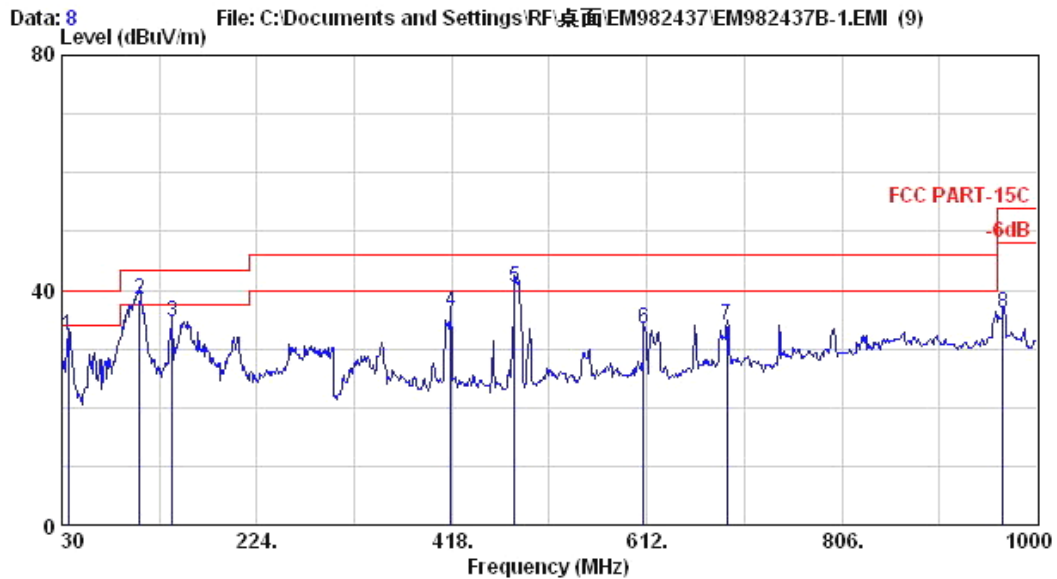
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8593EM 22*C/54% Engineer : Henning Chang
 EUT : LCD Tablet (M/N:DTU-2231A)
 Power Rating : 120Vac/60Hz
 Test Mode : Operating

	Ant.	Cable	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBµV)	Level (dBµV/m)	(dBµV/m)	(dB)	
1	106.630	17.77	2.20	13.10	33.06	43.50	10.44
2	165.800	20.93	2.70	9.68	33.31	43.50	10.19
3	417.030	16.95	5.08	13.60	35.62	46.00	10.38
4	484.930	18.80	6.20	13.37	38.37	46.00	7.63
5	609.090	21.45	6.20	8.68	36.34	46.00	9.66
6	830.250	24.75	7.10	5.58	37.43	46.00	8.57
7	959.260	26.38	7.60	3.57	37.56	46.00	8.44

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8593EM 22°C/54% Engineer : Henning Chang
 EUT : LCD Tablet (M/N:DTU-2231A)
 Power Rating : 120Vac/60Hz
 Test Mode : Operating

	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	
1	22.01	1.20	9.06	32.27	40.00	7.73	
2	17.87	2.20	18.25	38.33	43.50	5.17	
3	20.15	2.50	11.85	34.50	43.50	9.00	
4	16.95	5.08	14.18	36.20	46.00	9.80	
5	18.68	6.05	15.64	40.37	46.00	5.63	
6	21.45	6.20	5.88	33.54	46.00	12.46	
7	23.22	6.50	4.14	33.85	46.00	12.15	
8	26.89	7.70	1.51	36.10	54.00	17.90	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.