

APPLICATION FOR CERTIFICATION

On Behalf of

Wacom Co., Ltd.

LCD TABLET

Model No. : DTU-2235B

FCC ID : HV4DTU2235B

Brand : WACOM & SMART

REF. No.: JS-11549

Prepared for : Wacom Co., Ltd.  
2-510-1, Toyonodai, Kazo-shi, Saitama,  
349-1148 Japan

Prepared by : AUDIX Technology Corporation  
EMC Department  
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Date of Test : Jul. 07 ~ 08, 2010  
Date of Report : Jul. 14, 2010

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**TEST REPORT CERTIFICATION**

Applicant : Wacom Co., Ltd.  
 Manufacturer #1 : Qisda Optronics (Suzhou) Co., Ltd.  
 Manufacturer #2 : Qisda Corporation  
 EUT Description : LCD TABLET  
 FCC ID : HV4DTU2235B  
 (A) Model No. : DTU-2235B  
 (B) Serial No. : N/A  
 (C) Brand : WACOM & SMART  
 (D) Ref. No. : JS-11549  
 (E) Power Supply : DC 12V  
 (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, Oct. 2009  
AND ANSI C63.4/2003

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

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: Jul. 07 ~ 08, 2010

Date of Report: Jul. 14, 2010

Producer:   
 (Cherry Wang/Deputy Manager)

Reviewer:   
 (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-2235B
Serial Number	:	N/A
Brand	:	WACOM & SMART
Ref. No	:	JS-11549
FCC ID	:	HV4DTU2235B
Applicant	:	Wacom Co., Ltd. 2-510-1, Toyonodai, Kazo-shi, 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 (w/Touch Function)	:	AU Optronics (AUO), M/N M215HW01 (Qsida, M/N M215HW01)
Pen	:	Wacom, M/N UP-818E (P/N: UP-818E-83A-1)
DVI D-Sub Cable	:	Shielded, Detachable, 1.9m Bonded two ferrite cores
USB Cable	:	Non-Shielded, Detachable, 2.0m

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 : Jun. 09, 2010

Date of Test : Jul. 07 ~ 08, 2010

## 1.2. Tested Supporting System Details

### 1.2.1. PC SYSTEM

Model Number : VECTRA XE320  
Serial Number : SG21101966  
FCC ID : By DoC  
BSMI ID : 3912A318  
Manufacturer : First International Computer  
(Brand: HP)  
Power Cord : Non-Shielded, Detachable, 1.8m

### 1.2.2. PS2 MOUSE

Model Number : M-S69  
Serial Number : F6AB70S5BOY1NXP  
FCC ID : JNZ211443  
BSMI ID : R41126  
Manufacturer : LOGITECH (Brand: HP)  
Data Cable : Shielded, Undetachable, 1.8m

### 1.2.3. PS2 KEYBOARD

Model Number : SDM4700P  
Serial Number : B69360HLPPD0R2  
FCC ID : By DoC  
BSMI ID : R33018  
Manufacturer : SAMSUNG (Brand: HP)  
Data Cable : Shielded, Undetachable, 1.8m

## 1.3. Description of Test Facility

Name of Firm	:	<b>AUDIX Technology Corporation</b> <b>EMC Department</b> No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan
Test Location & Facility (C2/AC)	:	<b>No. 2 Shielded Room</b> No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan.  <b>Semi-Anechoic Chamber</b> No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan. Federal Communication Commission Registration Number: 90993 Filing on May 14, 2009
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 =  $ku_c(y)$

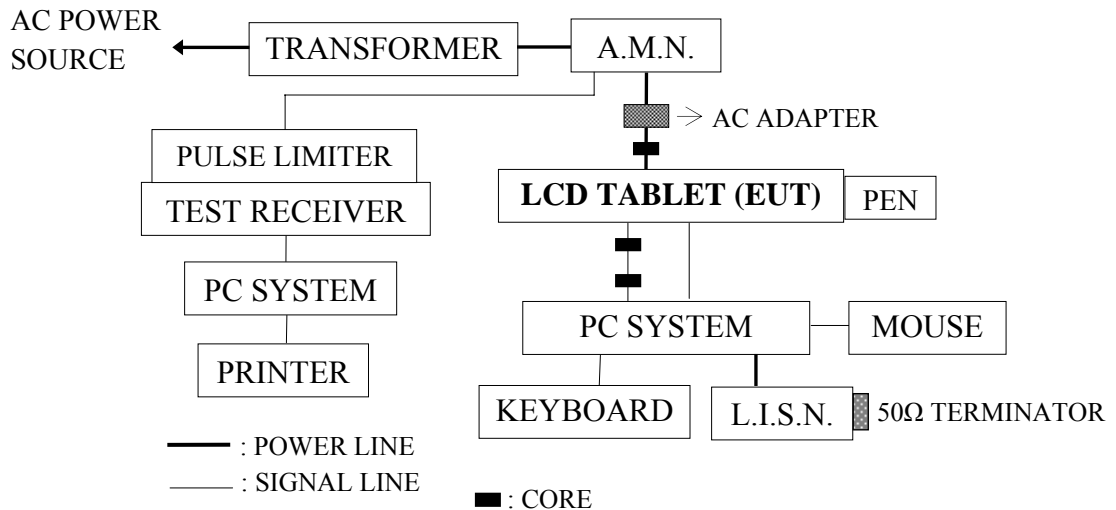
## 2. POWERLINE CONDUCTED EMISSION MEASUREMENT

### 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. 10, 10'	Mar. 09, 11'
2.	A.M.N.	R & S	ESH2-Z5	890485/023	Jan. 05, 10'	Jan. 04, 11'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	Mar. 10, 10'	Mar. 09, 11'
4.	Pulse Limiter	R&S	ESH3-Z2	001	Feb. 08, 10'	Feb. 07, 11'

### 2.2. Block Diagram of Test Setup



### 2.3. Powerline Conducted Emission Limit (§15.207)

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

Remark 1.: 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-2235B

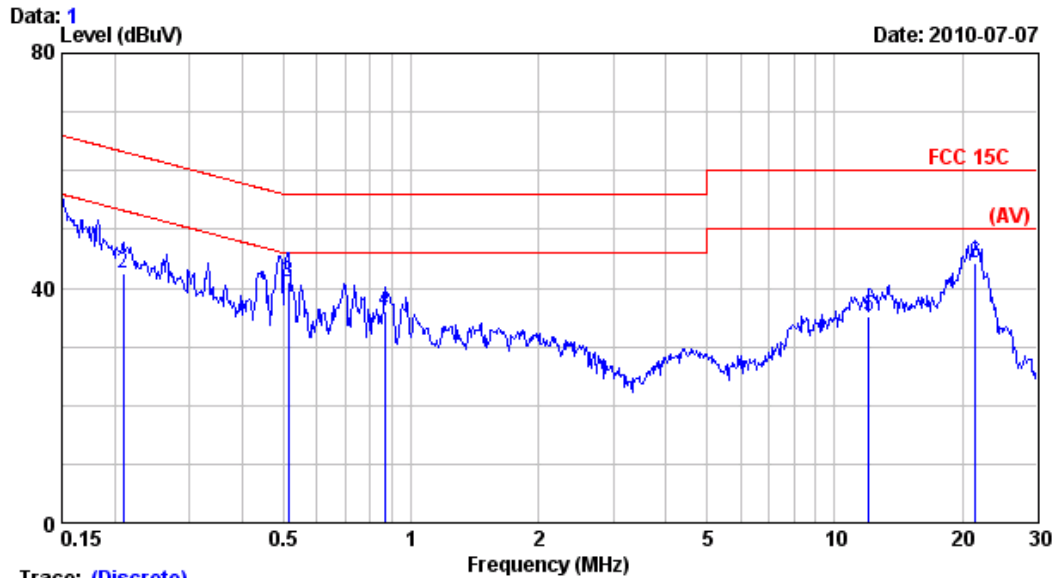
Test Date : Jul. 07, 2010    Temperature : 25            Humidity : 62%

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





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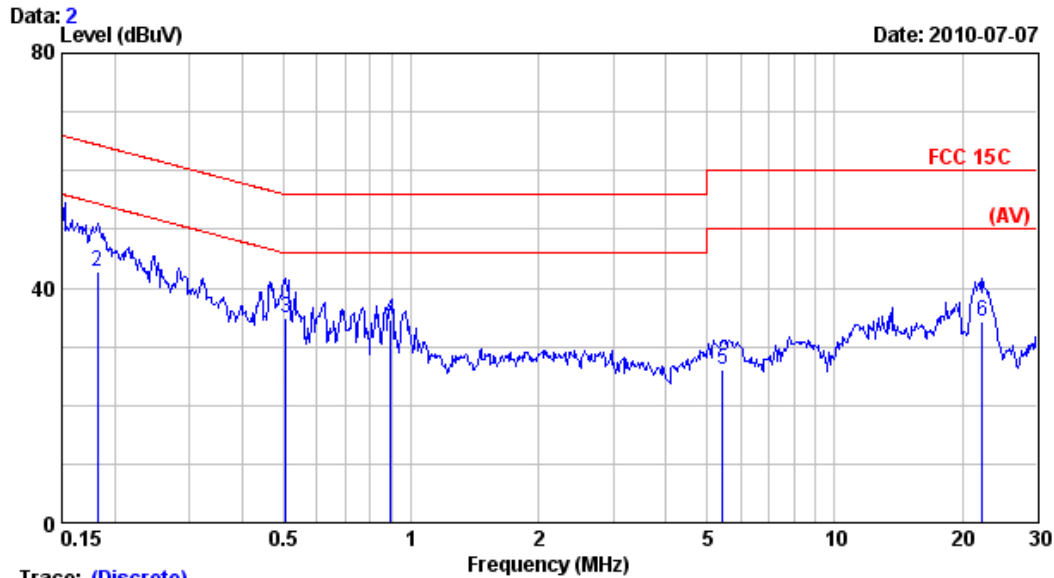
Trace: (Discrete)  
 Site : No.2 Shielded room Data : 1  
 Condition : ESH2-Z5 Phase : NEUTRAL  
 Limit : FCC 15C  
 Env. / Ins. : 25°C,62% / ESCS 30 (339) Engineer: Charles\_Yuan  
 EUT : LCD TABLET (液晶數位板)  
 Power Rating : 120Vac/60Hz M/N:DTV-2235B  
 Test Mode : 1920\*1080/60Hz DVI-(D-Sub)

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.150	0.10	0.24	51.54	51.88	66.00	14.12	QP
2	0.209	0.10	0.26	42.11	42.47	63.23	20.76	QP
3	0.514	0.13	0.34	40.52	40.99	56.00	15.01	QP
4	0.866	0.18	0.39	35.57	36.14	56.00	19.86	QP
5	12.060	0.35	0.70	33.99	35.04	60.00	24.96	QP
6	21.490	0.50	0.70	43.01	44.21	60.00	15.79	QP

Remarks: 1.Emission Level= AMN 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 15C  
 Env. / Ins. : 25°C,62% / ESCS 30 (339) Engineer: Charles\_Yuan  
 EUT : LCD TABLET (液晶數位板)  
 Power Rating : 120Vac/60Hz M/N:DTV-2235B  
 Test Mode : 1920\*1080/60Hz DVI-(D-Sub)

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.10	0.24	46.17	46.51	66.00	19.49	QP
2	0.182	0.10	0.25	42.35	42.70	64.39	21.69	QP
3	0.507	0.13	0.34	34.55	35.02	56.00	20.98	QP
4	0.894	0.19	0.39	33.98	34.56	56.00	21.44	QP
5	5.450	0.23	0.50	25.41	26.14	60.00	33.86	QP
6	22.300	0.79	0.70	32.73	34.22	60.00	25.78	QP

Remarks: 1.Emission Level= AMN 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)

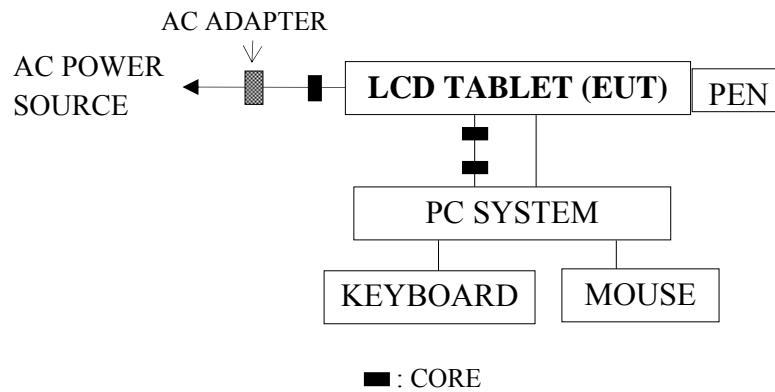
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun. 29, 10'	Jun. 28, 11'
2.	Test Receiver	R&S	ESCS30	100265	Aug. 28, 09'	Aug. 27, 10'
3.	Loop Antenna	R & S	HFH2-Z2	891847/27	Jul. 22, 09'	Jul. 21, 10'

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

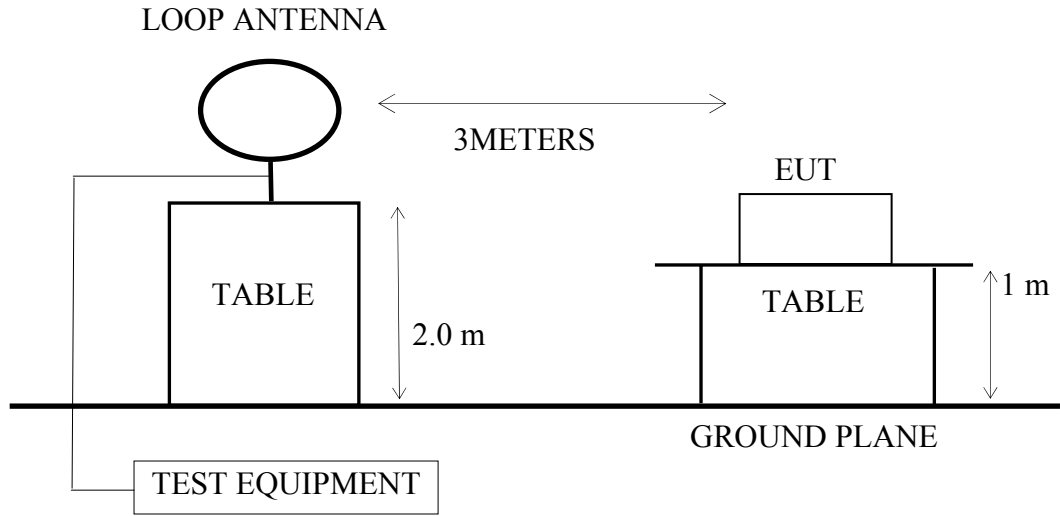
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Jun. 29, 10'	Jun. 28, 11'
2.	Test Receiver	R&S	ESCS30	100265	Aug. 28, 09'	Aug. 27, 10'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 03, 10'	Feb. 02, 11'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 13, 10'	Mar. 12, 11'
5.	Log Periodic Antenna	Schwarzbeck	UHALP910 8-A	0810	Mar. 13, 10'	Mar. 12, 11'

#### 3.2. Test Setup

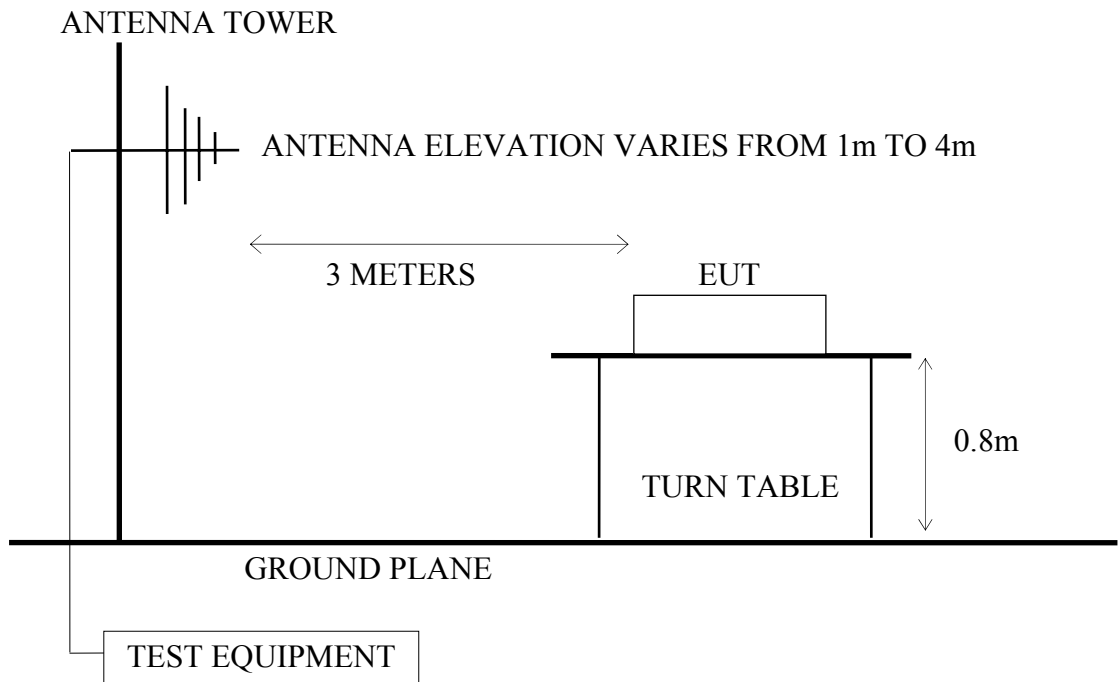
##### 3.2.1. Block Diagram of connection between EUT and simulators



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-2235B

**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 : Jul. 08, 2010      Temperature : 28              Humidity : 57%

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 : Jul. 08, 2010      Temperature : 29              Humidity : 52%

Reference Test Data No.: Horizontal: # 5 ; Vertical: # 6

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

Date of Test : Jul. 08, 2010 Temperature : 28

EUT : LCD TABLET, M/N DTU-2235B Humidity : 57%

Test Mode : Frequency: 531.25kHz

Frequency (kHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
531.25	41.05	73.10	-32.05
1062.50	31.88	67.08	-35.20
1593.75	30.44	63.56	-33.12
--	--	--	--

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

Date of Test : Jul. 08, 2010 Temperature : 28

EUT : LCD TABLET, M/N DTU-2235B Humidity : 57%

Test Mode : Frequency: 562.50kHz

Frequency (kHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
562.50	41.34	72.60	-31.26
1125.00	32.86	66.58	-34.22
1687.50	29.87	63.06	-33.19
--	--	--	--

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

Date of Test : Jul. 08, 2010 Temperature : 28

EUT : LCD TABLET, M/N DTU-2235B Humidity : 57%

Test Mode : Frequency: 593.75kHz

Frequency (kHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
593.75	41.54	72.13	-30.59
1187.50	31.08	66.11	-34.03
1781.25	29.09	69.57	-40.45
--	--	--	--

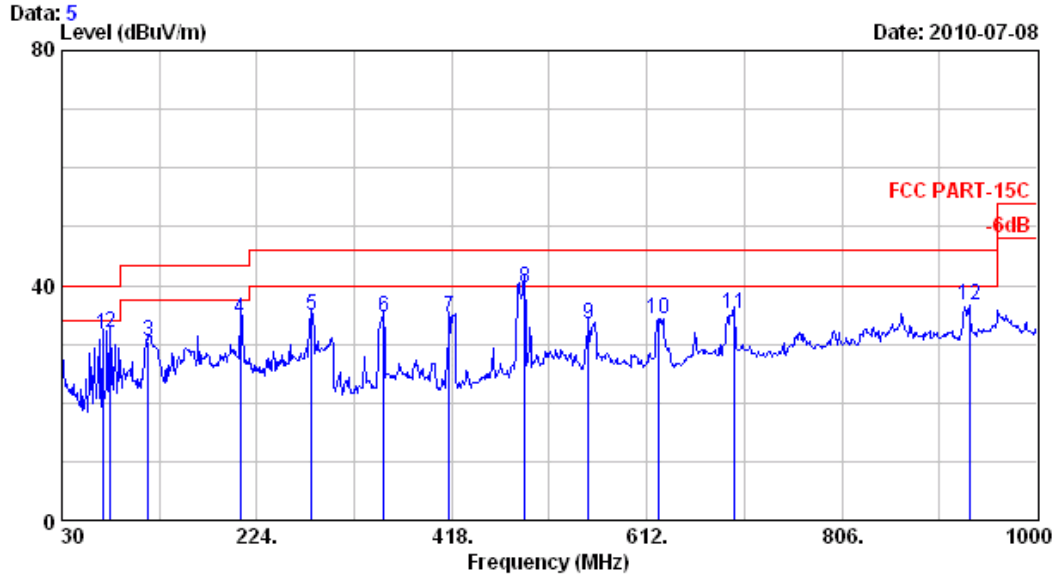
“--”The filed strength too low against the limit.



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



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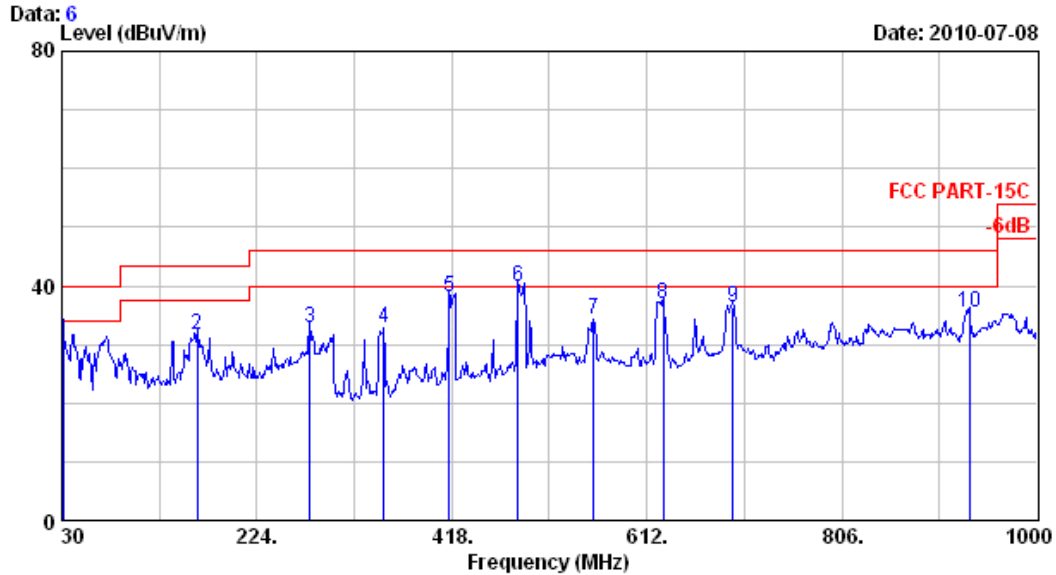
Site no. : A/C Chamber Data no. : 5  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C  
 Env. / Ins. : 29°C / 52% 8593EM Engineer : Henning Chang  
 EUT : LCD Tablet M/N: DTU-2235B  
 Power Rating : 120Vac/60Hz  
 Test Mode : operating

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	70.740	12.16	1.72	17.69	31.57	40.00	8.43	QP
2	78.500	13.43	1.80	16.66	31.89	40.00	8.11	
3	116.330	18.78	2.30	9.37	30.45	43.50	13.05	
4	207.510	21.88	3.12	9.38	34.37	43.50	9.13	
5	278.320	25.25	3.80	5.95	35.00	46.00	11.00	
6	350.100	15.44	4.30	14.95	34.69	46.00	11.31	
7	415.090	16.99	5.10	12.41	34.50	46.00	11.50	
8	490.750	18.58	6.30	14.61	39.49	46.00	6.51	
9	553.800	19.40	6.80	7.26	33.46	46.00	12.54	
10	623.640	21.32	6.20	6.87	34.39	46.00	11.61	
11	698.330	23.36	6.50	5.36	35.22	46.00	10.78	
12	933.070	25.23	7.50	3.89	36.62	46.00	9.38	

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. : A/C Chamber Data no. : 6  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL  
 Limit : FCC PART-15C  
 Env. / Ins. : 29°C / 52% 8593EM Engineer : Henning Chang  
 EUT : LCD Tablet M/N: DTU-2235B  
 Power Rating : 120Vac/60Hz  
 Test Mode : operating

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	7.51	33.42	40.00	6.58	QP
2	164.830	20.89	2.70	7.98	31.57	43.50	11.93	
3	276.380	25.26	3.70	3.89	32.85	46.00	13.15	
4	350.100	15.44	4.30	13.06	32.80	46.00	13.20	
5	415.090	16.99	5.10	15.89	37.98	46.00	8.02	
6	483.960	18.84	6.14	14.97	39.95	46.00	6.05	
7	558.650	19.89	6.70	7.59	34.17	46.00	11.83	
8	628.490	21.06	6.31	9.41	36.78	46.00	9.22	
9	697.360	23.32	6.50	6.50	36.32	46.00	9.68	
10	933.070	25.23	7.50	2.71	35.44	46.00	10.56	

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