# APPLICATION FOR CERTIFICATION

On Behalf of Wacom Co., Ltd. LCD Tablet

Model No. : DTK-1300

Brand: Wacom

FCC ID · HV4DTK1300

IC Certification Number 6888A-DTK1300

# Prepared for

## Wacom Co., Ltd.

2-510-1, Toyonodai, kazo-shi, Saitama, 349-1148 Japan

# Prepared by

# Audix Technology (Wujiang) Co., Ltd. EMC Dept.

No. 1289 Jiangxing East Road, the Part of Wujiang Economic Development Zone Jiangsu China 215200

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Report Number : ACWE-F1301003

Date of Test : Dec. 29, 2012 ~Jan.21, 2013

Date of Report : Feb.01, 2013

# TABLE OF CONTENTS

De	escription Page	<u>ge</u>
TE	ST REPORT CERTIFICATION	4
1.	SUMMARY OF STANDARDS AND RESULTS	4
	1.1. Description of Standards and Results	4
2.	GENERAL INFORMATION	
	2.1. Description of Device (EUT)	
	2.2.EUT's Configuration	
	2.3. Operating Condition of EUT	
	2.4. Tested Supporting System Details	
	2.5. Description of Test Facility	
	2.6. Measurement Uncertainty	
3.	CONDUCTED EMISSION MEASUREMET	8
	3.1. Test Equipment	
	3.2. Block Diagram of Test Setup	
	3.3. Power line Conducted Emission Limit (RSS 210 Issue 8/FCC Part15)	
	3.4. Test Procedure	
_	3.5. Conducted Emission Measurement Results	
4.	RADIATED EMISSION MEASUREMENT	
	4.1. Test Equipment	
	4.2. Block Diagram of Test Setup	12
	4.3. Radiated Emission Limits (FCC Part15 Subpart section 15.209,CISPR22; For 9kHz~30MHz)	
	4.4. Radiated Emission Limits (FCC Part15 Subpart section 15.209,CISPR22; For 30MHz~1000MHz 4.5. Test Method	
	4.6. Measurement Results	
5.	99% BANDWIDTH MEASUREMENT	
٥.	5.1. Test Equipment	
	5.2. Block Diagram of Test Setup.	
	5.3. Limit of Bandwidth at 99% Occupied Bandwidth	
	5.4. Test Procedure	
	5.5. Test Results	
6.	DEVIATION TO TEST SPECIFICATIONS	21
7.	PHOTOGRAPHS OF MEASUREMENT	22
	7.1. Photos of conducted emissions test	
	7.2. Photos of radiated emissions below 30MHz.	
	7.3. Photos of radiated emissions 30MHz-1000MHz.	23
	7.4 Photos of 99% bandwidth measurement	23

# **APPENDIX I Photos of EUT**

APPENDIX II Conducted Emission Pre-Scanned Data at Conducted Shielding Enclosure APPENDIX III Radiated Emission Pre-Scanned Data at 10m Semi-Anechoic Chamber

# TEST REPORT CERTIFICATION

**Applicant** Wacom Co., Ltd.

Manufacturer Wacom Co., Ltd.

**EUT Description** LCD Tablet

FCC ID HV4DTK1300

6888A-DTK1300 IC Certification Number

> DTK-1300 (A) Model No.

Wacom (B) BRAND

DC 19V, 1.58A(Via adapter) (C) POWER SUPPLY

AC 120V, 60Hz (D) TEST VOLTAGE

# Applicable Standards:

RSS-210, ISSUE 8, June 2007 FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2012 ANSI C63.4:2009

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept.to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the RSS-210, ISSUE 8 and FCC PART 15 C section 15.207 & 15.209 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. 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 RSS-210, ISSUE 8 limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Dec. 29, 2012 ~Jan.21, 2013 Date of Report: Feb.01, 2013

Prepared by

(Emma Hu/Assistant Administrator)

Reviewer

(Jingo Lin/Section Manager)

Approved & Authorized Signer

(Allen Wang/Deputy General Manager)

# 1. SUMMARY OF STANDARDS AND RESULTS

# 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION				
Description of Test Item	Standard	Results		
Conducted Emission	FCC 15.207 RSS-210, Issue 8	PASS		
Radiated Emission	FCC 15.209 RSS-210, Issue 8	PASS		
99% Bandwidth	RSS-210, Issue 8	PASS		

# 2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description : LCD Tablet

Model No. : DTK-1300

IC ID : 6888A-DTK1300

Brand : Wacom

Applicant : Wacom Co., Ltd.

2-510-1, Toyonodai, kazo-shi, Saitama, 349-1148 Japan

Manufacturer : Wacom Co., Ltd.

2-510-1, Toyonodai, kazo-shi, Saitama, 349-1148 Japan

Power rating : DC 19V

Environment : Indoor use

Operating Mode : Normal Operating

[RF Specification]

Frequency Range : 667.0kHz

Modulation Method : OOK (On-Off-Keying)

Date of Receipt of Sample : Jan.16, 2013

Date of Test : Dec. 29, 2012 ~Jan.21, 2013

2.2. EUT's Configuration

Interface Ports : USB 2.0 port \*1

Docking port\*1

Touch Pen : KP-503E

3 in 1 Cable : Shielded, Detachable, 1.8m, bonded 4 ferrite cores

AC/DC adapter (Option) : Brand: Delta

Model No.: ADP-30VH A

IN PUT: AC 100~240V, 1.0A, 50-60Hz

OUT PUT: DC 19V, 1.58A

DC Cord: Shielded, Detectable, 1.8m, bonded 1 ferrite core.

- 2.3. Operating Condition of EUT
- 2.3.1. Set up the EUT as test setup diagram.
- 2.3.2. For all measurement, setup the EUT as the test configurations; turn on all the equipment, use the touch pen near to the EUT, let it operate normal activity.
- 2.4. Tested Supporting System Details

2.4.1.USB Mouse

Manufacturer : HP

Model Number : M-UAE96

Serial Number : FATSK0L5B0LE1R

Data Cable : Shielded, Undetectable, 1.8m

2.4.2.USB Keyboard

Manufacturer : DELL Model Number : SK-8185

Serial Number : CN-0Y562K-71616-064-0T2R-A01

BSMI ID : T3A002

Data Cable : Shielded, Undetectable, 1.8m

2.4.3.PC

Manufacturer : HP

Model Number : 8200E MT Serial Number : CNG1243RC9

BSMI ID : R33001

3 in 1 Cable : Shielded, Detachable, 1.8m, bonded 4 ferrite cores

Power Cord : Unshielded, Detachable, 1.8m

# 2.5. Description of Test Facility

Name of Firm : Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Site Location : No. 1289 Jiangxing East Road, the Eastern Part of Wujiang

**Economic Development Zone** 

Jiangsu China 215200

Test Facilities : No.1 10m semi-anechoic chamber

Date of Validity: Aug. 20, 2013 Registration No.: 252588

No. 1 conducted shielding enclosure

NVLAP Lab Code : 200786-0

(NVLAP is a NATA accredited body under Mutual Recognition

Agreement)

Valid until on Sep.30, 2013

# 2.6. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
Conducted Disturbance Measurement	0.15MHz ~ 30MHz	± 2.36dB
Radiated Disturbance Measurement	20MII- 1000MII-	± 3.06dB (Horizontal)
(At 10m Chamber)	30MHz ~ 1000MHz	± 3.10dB (Vertical)

Remark: Uncertainty =  $ku_c(y)$ 

Test Item	Uncertainty	
Bandwidth	± 0.003 MHz	

Remark: Uncertainty =  $ku_c(y)$ 

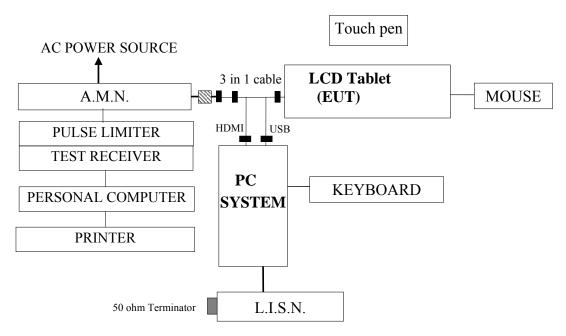
# 3. CONDUCTED EMISSION MEASUREMET

# 3.1. Test Equipment

The following test equipment were used during the conducted measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100352	2011-01-05	2012-01-04
2.	A.M.N	R & S	ESH2-Z5	100153	2011-03-25	2012-03-23
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1793-4	2011-08-06	2012-08-05
4.	Pulse Limiter	R&S	ESH3-Z2	100605	2011-08-06	2012-08-05
5.	50ohm Terminator	N/A	N/A	N/A	2011-03-25	2012-03-24
6.	RF Cable	Harbour Industries	RG400	002	2011-03-24	2012-03-23

# 3.2. Block Diagram of Test Setup



-: POWER LINE
-: SIGNAL LINE

## 3.3. Power line Conducted Emission Limit (RSS 210 Issue 8/FCC Part15)

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

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.

### 3.4. Test Procedure

The measuring process is according to ANSI C63.4 and laboratory internal procedure TKC-301-015.

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meters height above the ground plane, and 0.4 meters far away from the vertical plane. The EUT (installed in PC system) was powered by AC mains through Artificial Mains Network (A.M.N), other peripheral devices were powered by AC mains through the second Line Impedance Stabilization Network (L.I.S.N). For the measurement, the A.M.N measuring port was terminated by a  $50\Omega$  measuring equipment and the second L.I.S.N measuring port was terminated by a  $50\Omega$  resistive load. All measurements were done on the phase and neutral line of the EUT's power cord. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz  $\sim$  30 MHz) was pre-scanned with peak detector, the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is necessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dB $\mu$ V) = Meter-Reading (dB $\mu$ V) + A.M.N factor (dB) + Cable loss (dB). (Cable loss include pulse limiter loss)

## 3.5. 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.

Test Date : Dec.08, 2011 Temperature : 21.5℃ Humidity : 42%

Mode	Test Condition	Reference Test Data No.		
Mode	Test Condition	Neutral	Line	
1	RF TX	<b>%# 17</b>	# 18	

NOTE 1- 'X' means the worst test mode.

NOTE 2- The worst emission is detected at 0.16 MHz with emission level of 57.08 dB ( $\mu$ V) and with QP detector (Limit is 65.00 dB ( $\mu$ V)), when the Neutral of the EUT is connected to AMN.



Audix Technology (Wu Jiang) Co.,Ltd No.1289, Jiang Xing East Road, The Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel: (0512)63403993 Fax: (0512) 63403339

10

Engineer : KM Tong

Data no. Phase

20

: 17 : NEUTRAL

30

File: F:\2013Test Data\Report\01\G1301013.EM6 (18) Data: 17 80 Level (dBuV) Date: 2013-01-21 FCC PART 15B QP FCC PART 15B AV 40

Frequency (MHz)

Site no. AMN/LISN .

0 .15 .2

No.1 Conducted shielding Enclosure ESH2-Z5-1205 FCC PART 15B QP 19.7\*C&35%/ESCI LCD TABLET DTK-1300 Limit Env. / Ins.

.5

EUT M/N 120Vac/60Hz RF TX

Power Rating : Test mode Memo

	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.17	9.88	36.13	46.18	55.38	9.20	Average
2	0.16	0.17	9.88	47.03	57.08	65.38	8.30	QP
3	0.19	0.17	9.89	43.99	54.05	64.15	10.10	QP
4	0.19	0.17	9.89	33.68	43.74	54.15	10.41	Average
5	0.22	0.17	9.89	41.20	51.26	62.92	11.66	QP
6	0.22	0.17	9.89	31.09	41.15	52.92	11.77	Average
7	0.23	0.17	9.89	30.71	40.77	52.52	11.75	Average
8	0.23	0.17	9.89	39.71	49.77	62.52	12.75	QP -
9	0.27	0.18	9.89	30.05	40.12	51.12	11.00	Average
10	0.27	0.18	9.89	37.25	47.32	61.12	13.80	QP
11	0.39	0.18	9.90	36.68	46.76	58.08	11.32	QΡ
12	0.39	0.18	9.90	28.48	38.56	48.08	9.52	Äverage

<sup>1.</sup>Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Audix Technology (Wu Jiang) Co.,Ltd No.1289, Jiang Xing East Road, The Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel: (0512)63403993 Fax: (0512) 63403339

: 18 : LINE

Engineer : KM Tong

Data no. Phase

File: F:\2013Test Data\Report\01\G1301013.EM6 (18) Data: 18 80 Level (dBuV) Date: 2013-01-21 FCC PART 15B QP FCC PART 15B AV 40 0 .15 .2 .5 10 20 30

Frequency (MHz)

: No.1 Conducted shielding Enclosure : ESH2-Z5-1205 : FCC PART 15B QP : 19.7\*C&35%/ESCI : LCD TABLET : DTK-1300 Site no. AMN/LISN . Limit Env. / Ins. EUT

M/N Power Rating : Test mode : 120Vac/60Hz Test mode RF TX Memo

	Freq.	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1 2 3 4 5 6 7 8 9 10 11	0.17 0.17 0.18 0.18 0.20 0.20 0.21 0.21 0.24 0.24 0.27	0.23 0.23 0.24 0.24 0.24 0.24 0.24 0.25 0.25 0.25	9.88 9.88 9.89 9.89 9.89 9.89 9.89 9.89	35.32 46.52 45.69 34.49 42.72 32.51 40.80 31.61 37.94 29.94 24.42 34.63	45.43 56.63 55.82 44.62 52.64 50.93 41.74 48.08 40.08 34.57 44.78	55.16 65.16 64.59 54.59 63.76 63.14 53.14 62.17 51.07 61.07	9.73 8.53 8.77 9.97 10.91 11.12 12.21 11.40 14.09 16.50 16.29	Average QP QP Average QP Average QP Average QP Average QP Average QP Average

<sup>1.</sup>Emission Level= AMN Factor + Cable Loss + Reading.
2.If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

# 4. RADIATED EMISSION MEASUREMENT

# 4.1. Test Equipment

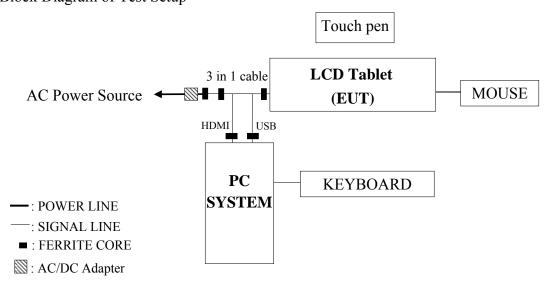
The following test equipment was used during the radiated emission measurement:

At 10m Semi-Anechoic Chamber

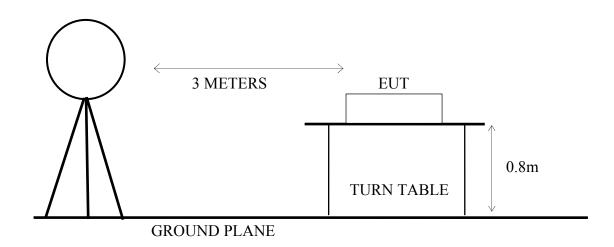
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E7405A	MY45107028	2013-01-05	2014-01-04
2.	Spectrum Analyzer	Agilent	E7405A	MY45107030	2013-01-05	2014-01-04
3.	Pre-Amplifier	Agilent	8447D	2944A10923	2012-08-14	2013-08-13
4.	Pre-Amplifier	Agilent	8447D	2944A10922	2012-08-14	2013-08-13
5.	Bi-log Antenna (Horizontal)	Schaffner	CBL6112D	22253	2012-05-04	2013-05-03
6.	Bi-log Antenna (Vertical)	Schaffner	CBL6112D	22251	2012-04-25	2013-04-24
7.	Loop Antenna	CHASE	HLA6120	1193	2012-05-03	2013-05-02
8.	Test Receiver	R&S	ESCI	100351	2013-01-05	2014-01-04
9.	50Ω Coaxial Switch # 1	ANRITSU	MP59B	6200547935	2012-03-24	2013-03-23
10.	50Ω Coaxial Switch # 2	ANRITSU	MP59B	6200547937	2012-03-24	2013-03-23
11.	50Ω Coaxial Switch # 3	ANRITSU	MP59B	6200547934	2012-03-24	2013-03-23
12.	RF Cable	Yuhang	CSYH	001	2012-08-14	2013-08-13
13.	RF Cable	Yuhang	CSYH	002	2012-08-14	2013-08-13
14.	RF Cable	Yuhang	CSYH	003	2012-08-14	2013-08-13
15.	RF Cable	Yuhang	CSYH	004	2012-08-14	2013-08-13
16.	RF Cable	Yuhang	CSYH	005	2012-03-24	2013-03-23
17.	RF Cable	Yuhang	CSYH	006	2012-03-24	2013-03-23
18.	RF Cable	Yuhang	CSYH	008	2012-03-24	2013-03-23
19.	RF Cable	Yuhang	CSYH	009	2012-03-24	2013-03-23

# 4.2. Block Diagram of Test Setup

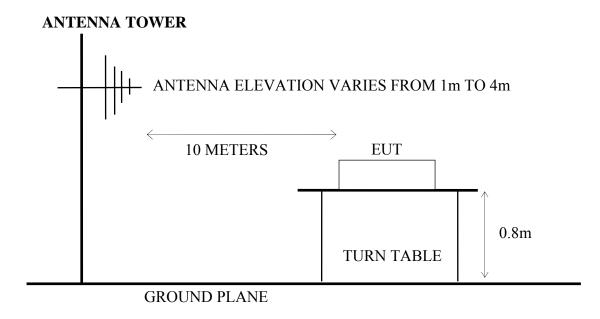
# 4.2.1.Block Diagram of Test Setup



# 4.2.2.No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 9kHz-30MHz ANTENNA TOWER



# 4.2.3.No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 10m) for 30-1000MHz



## 4.3. Radiated Emission Limits (FCC Part15 Subpart section 15.209,CISPR22; For 9kHz~30MHz)

Frequency	Fie	Distance	
MHz	$\mu V/m$	dBμV/m	Meters
0.009-0.490	2400/f [kHz]	20logE [μV/m]	300
0.490-1.705	24000/f [kHz]	20logE [μV/m]	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level ( $dB\mu V/m$ ) = 20 log Emission level ( $\mu V/m$ )
- (3) Measurements were corrected to 30m using  $40\log(3/30)=-40.0$ dB

## 4.4. Radiated Emission Limits (FCC Part15 Subpart section 15.209,CISPR22; For 30MHz~1000MHz)

Frequency	Field Strengths Limits	Distance Meters
MHz	dBμV/m	
30-300	30	10
300-1000	37	10

Remark: (1) CISPR 22 Limit was applied to Radiated emission measurements as prescribed in FCC part 15 section 15.109(g)

(2) Emission level ( $dB\mu V/m$ ) = 20 log Emission level ( $\mu V/m$ )

## 4.5. Test Method

## For emission below 30MHz:

Radiated emission measurements are performed at 3m distance with the Loop antenna.

The antenna is positioned with its plane vertical, and the center of the Loop is 1.0 meter above the ground plane.

Frequency Range:9kHz to 30MHz is scanned and investigated with the test receiver.

The detector function of the test receiver is set to Peak mode and the bandwidth is set to 200Hz (9kHz to 150kHz) and 9kHz(150kHz to 30MHz).

The EUT and support equipment are placed on a 1 meter x 2.0 meter surface, 0.8 meter height FRP table.

The turntable and the loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission.

Interconnecting cables, which hanging closer than 40cm to the horizontal metal ground plane are bundled its excess in center. The test results represent the worst-case emission for each emission with manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation.

Sufficient time for the EUT, support equipment, and test equipment are allowed in order for them to warm up to their normal operating condition.

Frequency Range:

-9kHz to 30MHz

The test receiver is set to:

Detector: Peak

Bandwidth: 200Hz, 9kHz

The test mode of EUT is as follows.

-Normal Operation

### For emissions above 30MHz:

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meters above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1000MHz. The specified distance is the distance between the antennas and the closest periphery of EUT. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz

RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz

RBW (1 MHz), VBW (10 Hz) for Average detector above 1GHz

The required frequency band was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 1GHz.

#### 4.6. Measurement Results

#### **PASSED**

#### 4.6.1. For 9kHz~30MHz

#### Vertical test results

Frequency [MHz]	Reading at 3m [dBuv]	c.f [dB]	Result at 3m [dBuv/m]	Result at 30m [dBuv/m]	Limit at 30m [dBuv/m]	Margin [dB]	Result
0.667	26.35	20.77	47.12	7.12	31.1	23.98	PASS
1.334	12.07	21.10	33.17	-6.83	25.1	31.93	PASS
2.001	14.05	21.10	35.15	-4.85	29.5	34.35	PASS
2.668	12.81	20.97	33.78	-6.22	29.5	35.72	PASS

Emission level=Reading+c.f(Ant. Factor+Cable system loss)

#### **Horizontal test results**

Frequency [MHz]	Reading at 3m [dBuv]	c.f [dB]	Result at 3m [dBuv/m]	Result at 30m [dBuv/m]	Limit at 30m [dBuv/m]	Margin [dB]	Result
0.667	15.57	20.77	36.34	-3. 66	31.1	34. 76	PASS
1.334	13.29	21.10	34.39	-5. 61	25.1	30. 71	PASS
2.001	12.17	21.10	33.27	-6. 73	29.5	36. 23	PASS
2.668	14.08	20.97	35.05	-4. 95	29.5	34. 45	PASS

Emission level=Reading+c.f(Ant. Factor+Cable system loss)

# 4.6.2. For 30MHz~1GHz

Test Date : Dec.29, 2012 Temperature : 22.9℃ Humidity : 62%

The details of test modes and reference test data are as follows:

Item Test Condition	Tost Condition	Reference Test Data No.		
	Test Condition	Horizontal	Vertical	
1	RF TX	# 22	# 23	



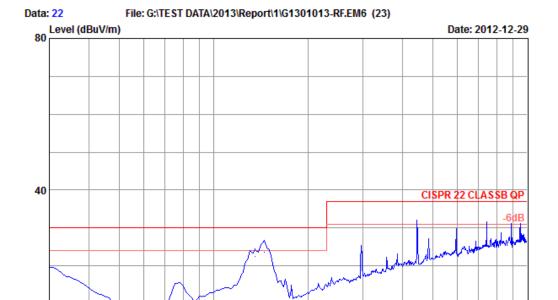
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Audix Technology (Wujiang) Co., Ltd. No.1289, Jiang Xing Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339

500

Data NO. : 22 Ant.pol : HORIZONTAL Engineer : Leo

1000



200

Frequency (MHz)

Site No. Dis./Ant.

100

Env./Ins. EUT. M/N Power Rating: 120Vac/60Hz Test Mode : RF TX Test Mode

Memo

50

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3 4 5 6	135.73 145.43 446.13 741.98 890.39 950.53	11.88 10.84 16.87 20.53 20.80 21.30	1.73 1.76 3.14 4.19 4.71 4.79	8.82 11.05 10.08 4.87 3.78 2.09	22.43 23.65 30.09 29.59 29.29 28.18	30.00 30.00 37.00 37.00 37.00 37.00	7.57 6.35 6.91 7.41 7.71 8.82	QP QP QP QP QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading 2.The emission level that are 20dB below the offical limit are not reported

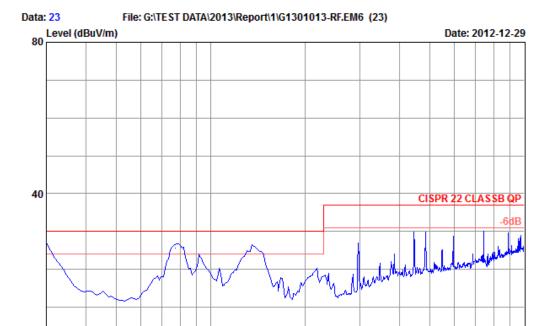


0 30

Audix Technology(Wujiang)Co.,Ltd. No.1289, Jiang King Eest Road, Eastern Part of WuJiang Economic Development Zone, JiangSu, China Tel:0512-63403993 Fax:0512-63403339

500

1000



Data NO. : 23 Ant.pol : VERTICAL Engineer : Leo Site No. Dis./Ant. Env./Ins.

200

Frequency (MHz)

100

EUT. M/N Power Rating: 120Vac/60Hz Test Mode : RF TX

Memo

50

	Freq.	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2 3 4 5 6	30.08 77.40 135.73 446.13 741.98 890.39	19.60 8.40 12.33 16.66 19.42 20.81	0.56 1.00 1.38 2.52 3.33 3.84	3.00 16.30 12.74 8.60 6.38 4.07	23.16 25.70 26.45 27.78 29.13 28.72	30.00 30.00 30.00 37.00 37.00 37.00	6.84 4.30 3.55 9.22 7.87 8.28	QP QP QP QP QP

Remarks: 1.Emission Level= Antenna factor + Cable loss + Reading 2.The emission level that are 20dB below the offical limit are not reported

# 5. 99% BANDWIDTH MEASUREMENT

# 5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4447A	MY45300136	2013-01-05	2014-01-04
2.	Loop Antenna	ETS	7405	901	N/A	N/A

# 5.2. Block Diagram of Test Setup

SPECTRUM ANALYZER	Loop antenna		EUT
		J	

----: SIGNAL LINE

# 5.3. Limit of Bandwidth at 99% Occupied Bandwidth

None.

## 5.4. Test Procedure

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99% bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

The spectrum analyzer is set to:

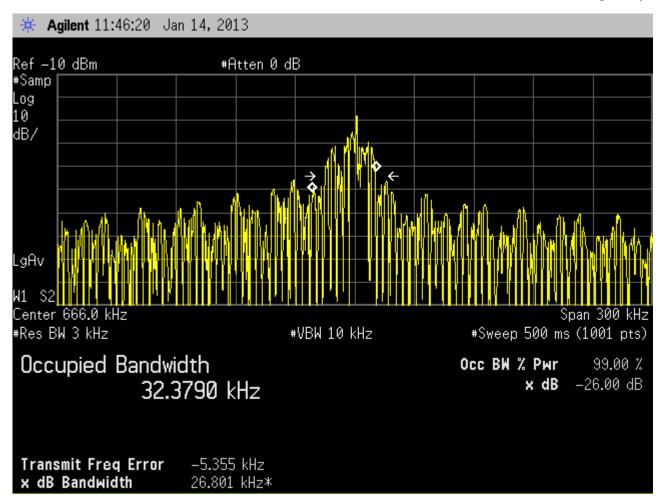
-RBM=3kHz, VBW=10kHz, Span= 300kHz, Sweep= auto

The test mode of EUT is as follows.

-Normal Operation

## 5.5. Test Results

Frequency	Occupied Bandwidth
(kHz)	(kHz)
667 kHz	32.3790 kHz



# 6. DEVIATION TO TEST SPECIFICATIONS

[NONE]