

AUDIX Technology (Shenzhen) Co., Ltd. 52 Block, Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, China Tel: 0755-26639495 6 Fax: 86 0755-26632877

# Technical Compliance Statement

No. ACS-F13375

## FCC Verification

For the following equipment

Submitter : Coroporativo Lanix S.A. de C.V.

Carrterera Hermosillo-Nogales Km 8.5

Product : W32

Model No. : W32

We hereby certify that the above product has been tested by us and complied with the FCC official limits. These products might be marketed at the US accordance to FCC Rule based on the standard 47 CFR Part 2 and Part 15 Class B Equipment Regulations. The test was performed accordance to the procedures from ANSI C63.4-2009. The test data & results are issued on the test report no. ACS-F13375.



Lab. Code: 200372-0

AUDIX® 信奉科技 (深圳) 有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告専用章

Stamp only for EMC Dept. Report

Signature: David Th

David Jin Manager

Date: Jan.20, 2014

The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



#### FCC VERIFICATION TEST REPORT

for

Coroporativo Lanix S.A. de C.V.

W32

Model Number: W32

Prepared for: Coroporativo Lanix S.A. de C.V.

Carrterera Hermosillo-Nogales Km 8.5

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496 Fax: (0755) 26632877

Report Number : ACS-F13375

Date of Test : Dec.30, 2013~Jan.14, 2014

Date of Report : Jan.20, 2014



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### TEST REPORT VERIFICATION

Applicant : Coroporativo Lanix S.A. de C.V.

Manufacturer : SHENZHEN FORTUNESHIP TECHNOLOGY., LTD

EUT Description : W32

(A) Model No. : W32 (B) Serial No. : N/A

(C) Power Supply : DC 3.7V; DC 5V

(D) Test Voltage : DC 5V From PC Input AC 120V/50Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2012, ANSI C63.4-2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test: Dec.30, 2013~Jan.14, 2014 Report of date: Jan.20, 2014

Prepared by: Sign Large Reviewer by:

Lisa Liang / Assistant

Sunny Lu / Assistant Manager

名[[D]]X <sup>®</sup> 信華科技 (深圳) 有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC部門報告專用幸

Stamp only for EMC Dept. Report

Signature: David Jin 1.20

David Jin / Manager

Approved & Authorized Signer:



## 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							
<b>Description of Test Item</b>	Standard	Results	Remark				
Power Line Conducted Emission Test	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Minimum passing margin is 10.07dB at 0.41865 MHz				
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Minimum passing margin is 5.89 dB at 175.500 MHz				
Radiated Emission Test (1-6GHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Minimum passing margin is 16.39dB at 2710.000MHz				



#### 2. GENERAL INFORMATION

#### 2.1. Description of Device (EUT)

Description : W32

Model Number : W32

Applicant : Coroporativo Lanix S.A. de C.V.

Carrterera Hermosillo-Nogales Km 8.5

Manufacturer : SHENZHEN FORTUNESHIP TECHNOLOGY., LTD

Room 401, A-B District, TCL King Electronics company, No.33. Nanhai Road Nanshan District Shenzhen Guangdong,

P.R.China

Power Adapter : Manufacture: LANIX, M/N: W32-C

Cable: Shielded, Detachable, 0.8m

Earphone Cable : Unshielded, Detachable, 1.0m

Date of Test : Dec.30, 2013~Jan.14,2014

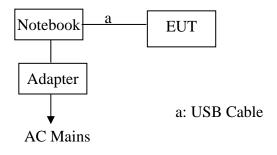
Date of Receipt : Dec.21, 2013

Sample Type : Series production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type	
	X . 1	Test PC R	DELL	D430	PP09S	☑ FCC DoC	
1		Power Cord: Unshielded, Detachable, 1.8m Power Adopter: Manufacture: DELL, M/N:LA65NS1-00					

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



(EUT: W32)



## 2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen

Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 90454 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232 Valid Date: Oct.31, 2015

EMC Lab. : Certificated by Industry Canada

Registration Number: IC 5183A-1

Valid Date: Jun.13, 2014

Certificated by DAkkS, Germany Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2014

## 2.5. Measurement Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.08dB(9KHz to 150KHz)
in No. 1 Conduction	3.1dB (150KHz to 30MHz)
	3.22 dB(30~200MHz, Polarize: H)
Uncertainty for Radiation Emission test	3.23 dB(30~200MHz, Polarize: V)
in 3m chamber	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in	4.97dB (1~6GHz, Distance: 3m)
3m chamber (1GHz-18GHz)	4.99 dB (6~18GHz, Distance: 3m)
Uncertainty for test site temperature and	0.6℃
humidity	3%

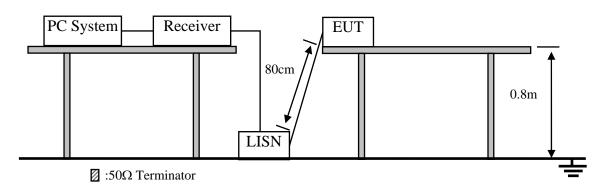


## 3. POWER LINE CONDUCTED EMISSION TEST

## 3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.18,13	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 13	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 13	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	$50\Omega$	No. 1	May.08, 13	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
7.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
8.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year
10.	Oscilloscope	Tektronix	TDS3052B	B026036	May.16, 13	1 Year
11.	MPEG2 Measurement Generator	ROHDE&SCHW ARZ	DVG	100319	Dec.11, 13	1 Year
12.	TV Transmitter	ROHDE&SCHW ARZ	SFQ	100521	May.08, 13	1 Year
13.	Signal Generator	HP	8648A	3625U00573	May.08, 13	1 Year
14.	Pattern Generator	Philiphs	PM5418	LO625020	May.08, 13	1 Year

## 3.2. Block Diagram of Test Setup



## 3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	dB(µV)	dB(µV)		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.



## 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1. W32 (EUT)

Model Number : W32 Serial Number : N/A

#### 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (Data Transmitting) and measure it.

#### 3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

#### 3.7. Conducted Disturbance at Mains Terminals Test Results

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

The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

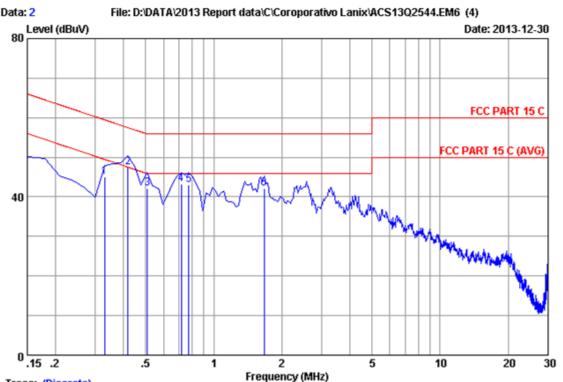
EUT: W32 Model No.: W32

Test Date: Dec.30, 2013 Temperature: 23.5°C Humidity: 65%

The details of test modes are as follows:

NO.	Test Mode	Reference Test Data No.		
NO.	Test Mode	LINE	NEUTRAL	
1.	Data Transmitting	#2	#1	





Trace: (Discrete)

Site no :1#conduction Data No :2

Dis./Ant. :2013 ESH2-Z5 LINE Limit :FCC PART 15 C

Env./Ins. :23.5\*C/65% Engineer :Kevin

EUT : W32

Power Rating :DC 5V From PC Input AC 120V/60Hz

Test Mode :Data Transmitting

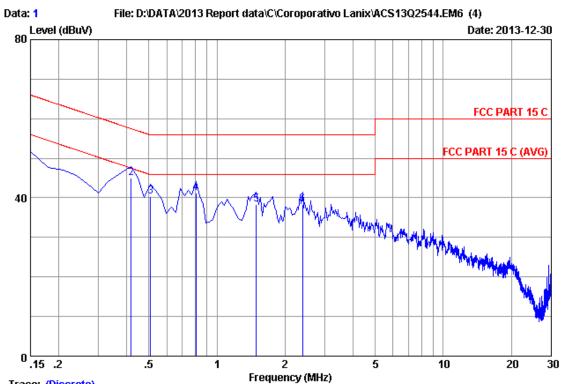
M/N:W32

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.32910	0.15	0.01	44.86	45.02	59.47	14.45	QP
2	0.41865	0.16	0.02	47.22	47.40	57.47	10.07	QP
3	0.50820	0.16	0.02	42.02	42.20	56.00	13.80	QP
4	0.71715	0.17	0.03	42.97	43.17	56.00	12.83	QP
5	0.77685	0.17	0.03	42.85	43.05	56.00	12.95	QP
6	1.672	0.21	0.04	41.97	42.22	56.00	13.78	QP

Remarks: 1.Emission Level=LISN 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.





Trace: (Discrete)

Site no :1#conduction Data No :1

Dis./Ant. :2013 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 C

Env./Ins. :23.5\*C/65% Engineer :Kevin

EUT :W32

Power Rating :DC 5V From PC Input AC 120V/60Hz

Test Mode : Data Transmitting

M/N:W32

		LISN	Cable		Emission	ı		
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.18	0.01	48.48	48.67	66.00	17.33	QP
2	0.41865	0.22	0.02	44.70	44.94	57.47	12.53	QP
3	0.50820	0.23	0.02	40.14	40.39	56.00	15.61	QP
4	0.80670	0.27	0.03	40.82	41.12	56.00	14.88	QP
5	1.493	0.26	0.03	38.06	38.35	56.00	17.65	QP
6	2.389	0.27	0.04	38.12	38.43	56.00	17.57	QP

Remarks: 1.Emission Level=LISN 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 TEST

## 4.1. Test Equipment

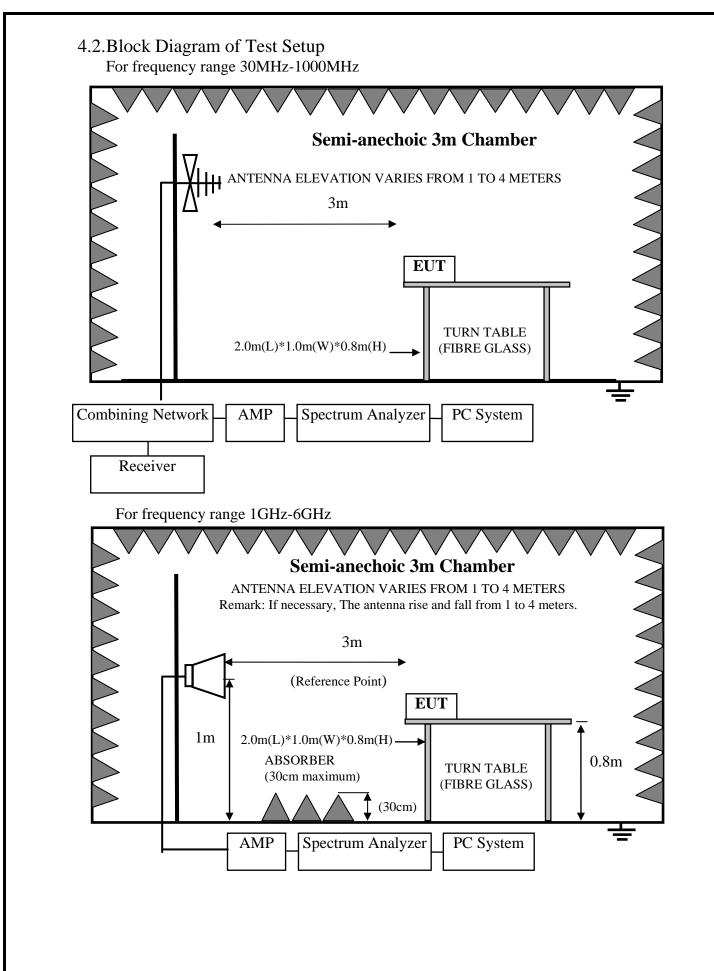
## 4.1.1. For frequency range 30MHz~1000MHz (At 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year
8	MPEG2 Measurement Generator	ROHDE&SCHWA RZ	DVG	100319	Dec.11, 13	1 Year

## 4.1.2. For frequency range 1GHz~6GHz (At 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	Aug.27, 13	1 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	May.08, 13	1 Year







#### 4.3. Radiated Emission Limit

Frequency	Distance	Field Strengths Limits		
MHz	(Meters)	dB(μV)/m		
30 ~ 88	3	40.0		
88 ~ 216	3	43.5		
216 ~ 960	3	46.0		
960 ~ 1000	3	54.0		
1000 ~ 6000	3	74(Peak) 54(Average)		

Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5

#### 4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

#### 4.6.Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on Radiated Emission test.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS10) is 120 kHz.

The frequency range from 1GHz to 6GHz was checked and all final readings of measurement were with Peak and Average detector, measurement distance was 3m at semi-anechoic chamber. The portion of the test volume that was obstructed by absorber placed on the floor (30cm maximum).

The frequency range from 30MHz to 1000MHz is checked. The test results are reported on Section 4.7.



## 4.7. Radiated Disturbance Test Results

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

EUT: W32 Model No.: W32

The EUT with the following test modes were tested and selected to read Q.P values, all the test results listed in next pages.

.

Test Date: Jan.14, 2014 Temperature: 24°C Humidity: 65%

The details of test mode are as follows:

No.	Test Mode	Reference Test Data No.				
	Test Wode	Horizontal	Vertical			
1.	Data Transmitting	#42	#43			

For above 1GHz frequency

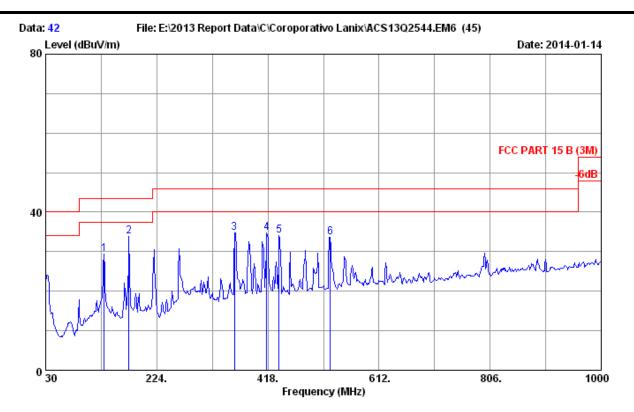
The EUT with below test mode 1 was measured within Anechoic Chamber and the test results listed in next pages

Test Date: Jan.14, 2014 Temperature: 24°C Humidity: 56%

The details of test mode are as follows:

No.	Test Mode	Reference Test Data No.			
190.	Test Wode	Horizontal	Vertical		
1.	Data Transmitting	#44	#43		





Site no. : 3m Chamber Data no. : 42

Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Kevin\_Hu

EUT : W32

Power rating : DC 5V From PC Input AC 120V/60Hz

Test Mode : Data Transmitting

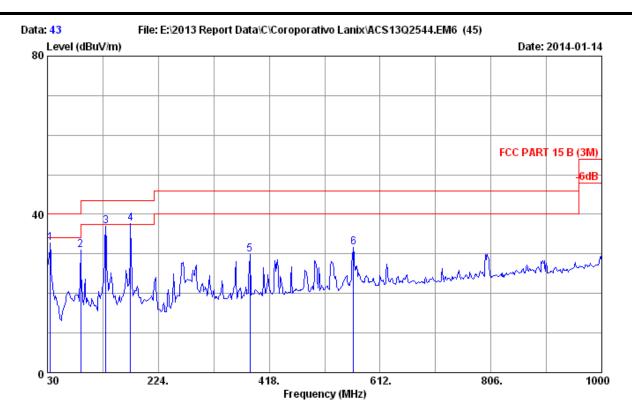
M/N:W32

_	No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	131.850	12.71	1.53	15.26	29.50	43.50	14.00	QP
	2	175.500	9.92	1.70	22.25	33.87	43.50	9.63	QP
	3	359.800	15.70	2.34	16.69	34.73	46.00	11.27	QP
	4	416.060	17.32	2.51	14.96	34.79	46.00	11.21	QP
	5	437.400	17.00	2.57	14.44	34.01	46.00	11.99	QP
	6	526.640	18.10	2.83	12.75	33.68	46.00	12.32	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 175.500 MHz with corrected signal level of 33.87 dB $\mu$ V/m (Limit is 43.50 dB $\mu$ V/m) when the antenna was at horizontal polarization and at 1.0m high and the turn table was at 310°.
- 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.





Site no. : 3m Chamber Data no. : 43

Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24\*C/65% Engineer : Kevin\_Hu

EUT : W32

Power rating : DC 5V From PC Input AC 120V/60Hz

Test Mode : Data Transmitting

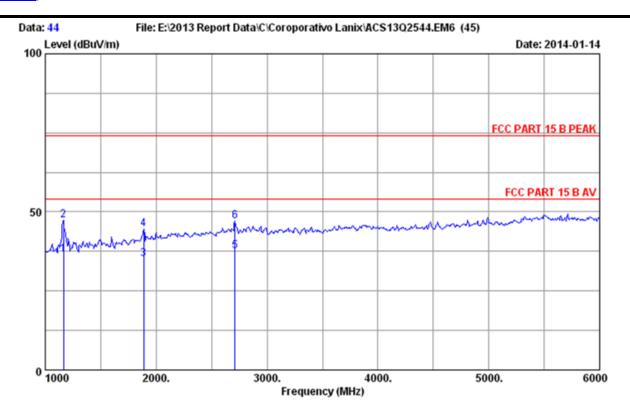
M/N:W32

No.	Freq. (MHz)	Ant. Factor (dB/m)	Loss (dB)	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	17.09	0.92	14.81	32.82	40.00	7.18	QP
2	88.200	9.04	1.36	20.67	31.07	43.50	12.43	QP
3	131.850	12.71	1.53	22.83	37.07	43.50	6.43	QP
4	175.500	9.92	1.70	25.99	37.61	43.50	5.89	QP
5	384.050	15.98	2.41	11.45	29.84	46.00	16.16	QP
6	565.440	18.81	2.94	9.86	31.61	46.00	14.39	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- The emission levels that are 20dB below the official limit are not reported.
- 3. The worst emission was detected at 175.500MHz with corrected signal level of 37.61 dB $\mu$ V/m (Limit is 43.50 dB $\mu$ V/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 45°.
- 4.0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

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Site no. : 3m chamber (RF) Data no. : 44

Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Kevin\_Hu

EUT : W32

Power Rating : DC 5V From PC Input AC 120V/60Hz

Test Mode : Data Transmitting

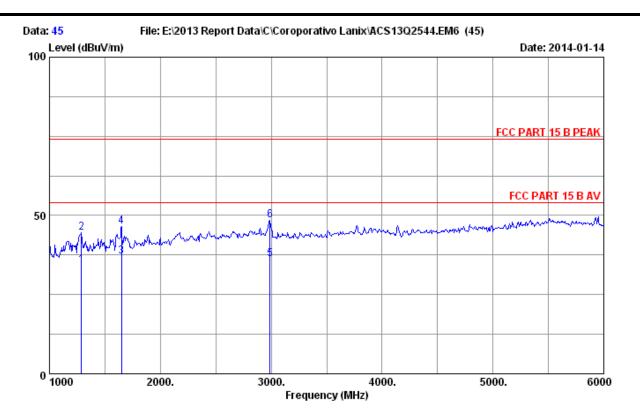
M/N:W32

		Ant.	Cable	AMP		Emission			
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1165.000	23.43	1.59	36.05	47.50	36.47	54.00	17.53	Average
2	1165.000	23.43	1.59	36.05	58.41	47.38	74.00	26.62	Peak
3	1890.000	24.18	2.30	34.97	43.63	35.14	54.00	18.86	Average
4	1890.000	24.18	2.30	34.97	52.93	44.44	74.00	29.56	Peak
5	2710.000	24.75	2.93	34.69	44.62	37.61	54.00	16.39	Average
6	2710.000	24.75	2.93	34.69	54.20	47.19	74.00	26.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor

The emission levels that are 20dB below the official limit are not reported.

## AUDIX Technology (Shenzhen) Co., Ltd.



Site no. : 3m chamber(RF) Data no. : 45

Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24\*C/56% Engineer : Kevin\_Hu

EUT : W32

Power Rating : DC 5V From PC Input AC 120V/60Hz

Test Mode : Data Transmitting

M/N:W32

		Ant.	Cable	AMP		Emission	ı		
No.	Freq.	Factor	Loss	factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1290.000	23.68	1.69	35.86	44.61	34.12	54.00	19.88	Average
2	1290.000	23.68	1.69	35.86	55.15	44.66	74.00	29.34	Peak
3	1650.000	24.13	2.03	35.33	46.21	37.04	54.00	16.96	Average
4	1650.000	24.13	2.03	35.33	55.82	46.65	74.00	27.35	Peak
5	2990.000	26.15	3.03	34.65	41.79	36.32	54.00	17.68	Average
6	2990.000	26.15	3.03	34.65	53.89	48.42	74.00	25.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor

The emission levels that are 20dB below the official limit are not reported.



5. DEVIATION TO TEST SPECIFICATIONS [NONE]