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Technical Compliance Statement

No. ACS-F13375

FCC Verification

For the following equipment

Submitter : Corporativo Lanix S.A. de C.V.
Carrtera 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



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.
Carrerera 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

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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 : Lisa Liang
 Lisa Liang / Assistant

Reviewer by : Sunny Lu
 Sunny Lu / Assistant Manager



信華科技 (深圳) 有限公司

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: David Jin 1.20

Approved & Authorized Signer :

David Jin / 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	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

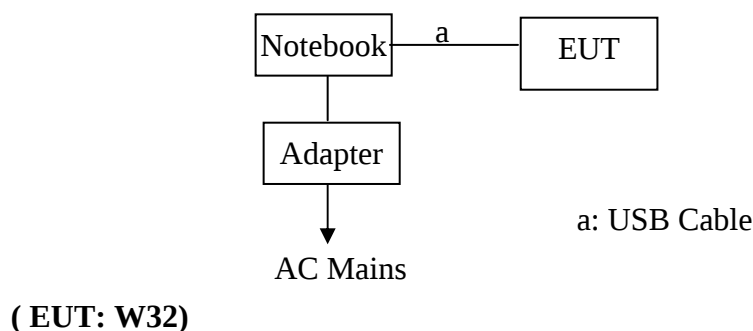
2.1. Description of Device (EUT)

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
1	Notebook	Test PC R	DELL	D430	PP09S	☒ FCC DoC
Power Cord: Unshielded, Detachable, 1.8m Power Adopter: Manufacture: DELL, M/N:LA65NS1-00						

2.3. Block Diagram of connection between EUT and simulators



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)

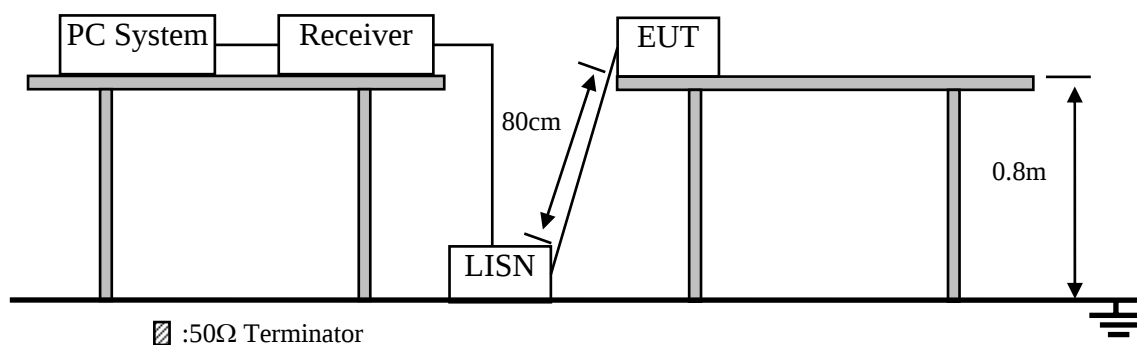
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.08dB(9KHz to 150KHz)
	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97dB (1~6GHz, Distance: 3m)
	4.99 dB (6~18GHz, Distance: 3m)
Uncertainty for test site temperature and humidity	0.6℃
	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	50Ω	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

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level 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.)

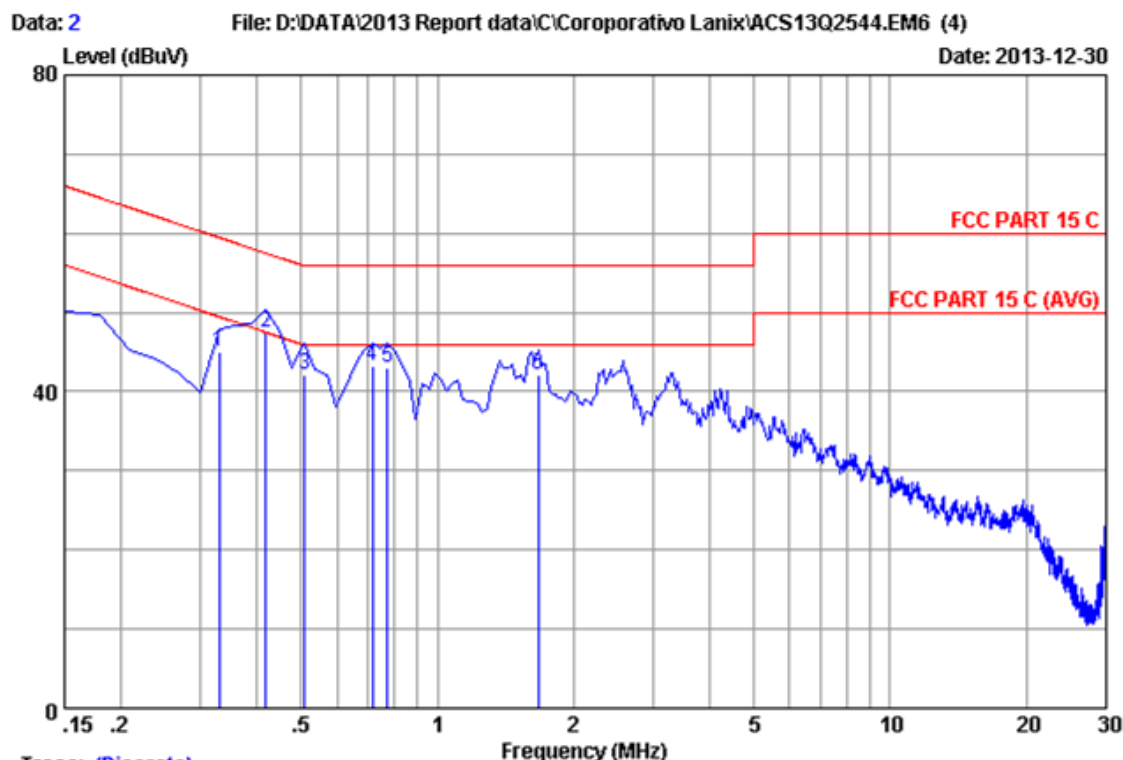
The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

EUT: W32 Model No. : W32

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

The details of test modes are as follows :

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



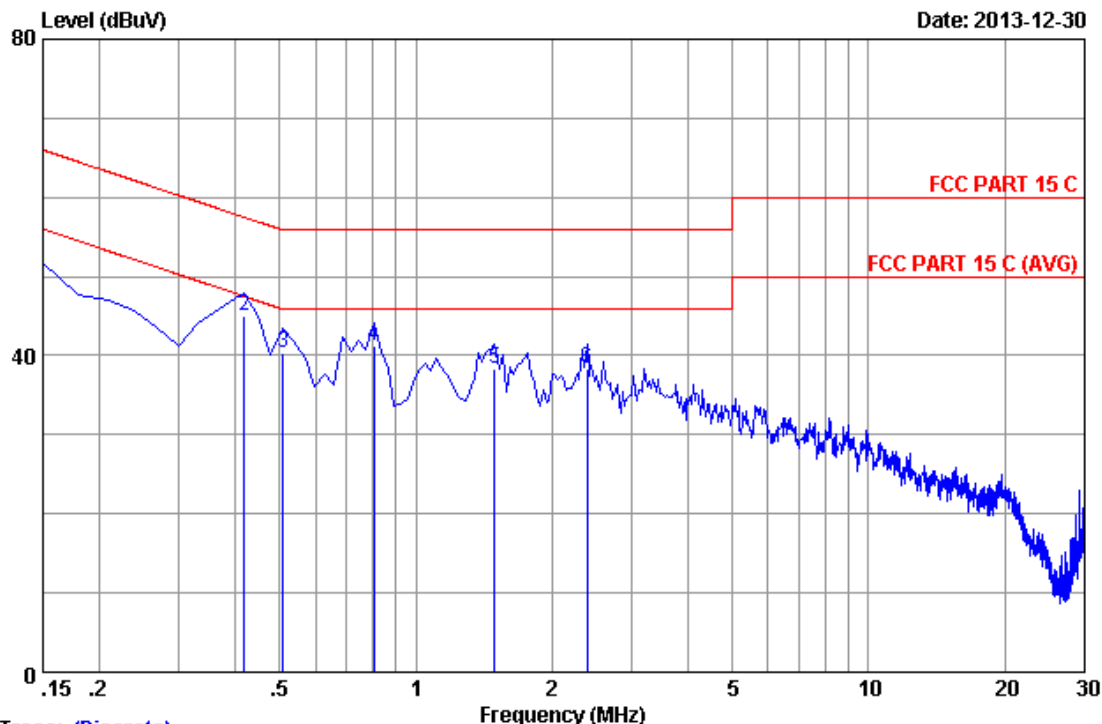
Trace: (Discrete)

Site no :1#conduction Data No :2
 Dis./Ant. :2013 ESH2-25 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 using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 1 File: D:\DATA\2013 Report data\C\Coroporativo Lanix\ACS13Q2544.EM6 (4) Date: 2013-12-30



Trace: (Discrete)
 Site no :1#conduction Data No :1
 Dis./Ant. :2013 ESH2-25 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

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission 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 using 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)

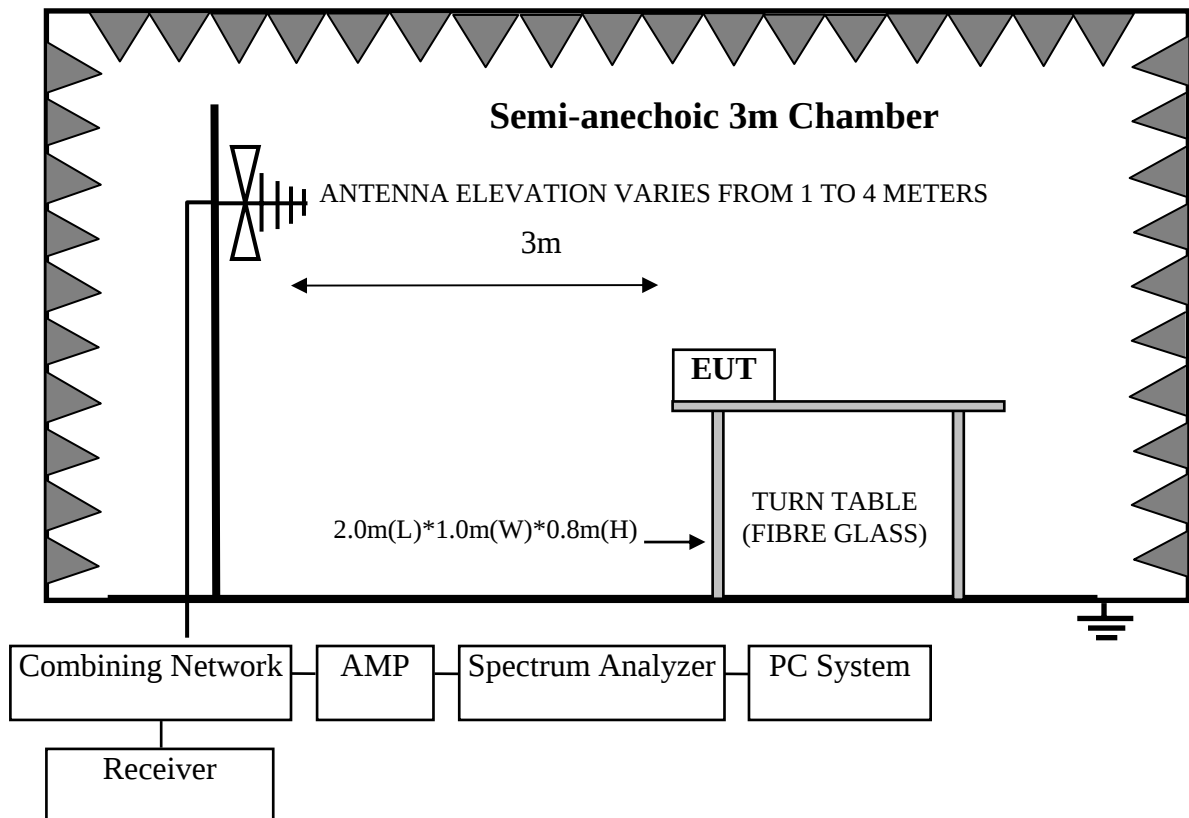
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog 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&SCHWARZ	DVG	100319	Dec.11, 13	1 Year

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

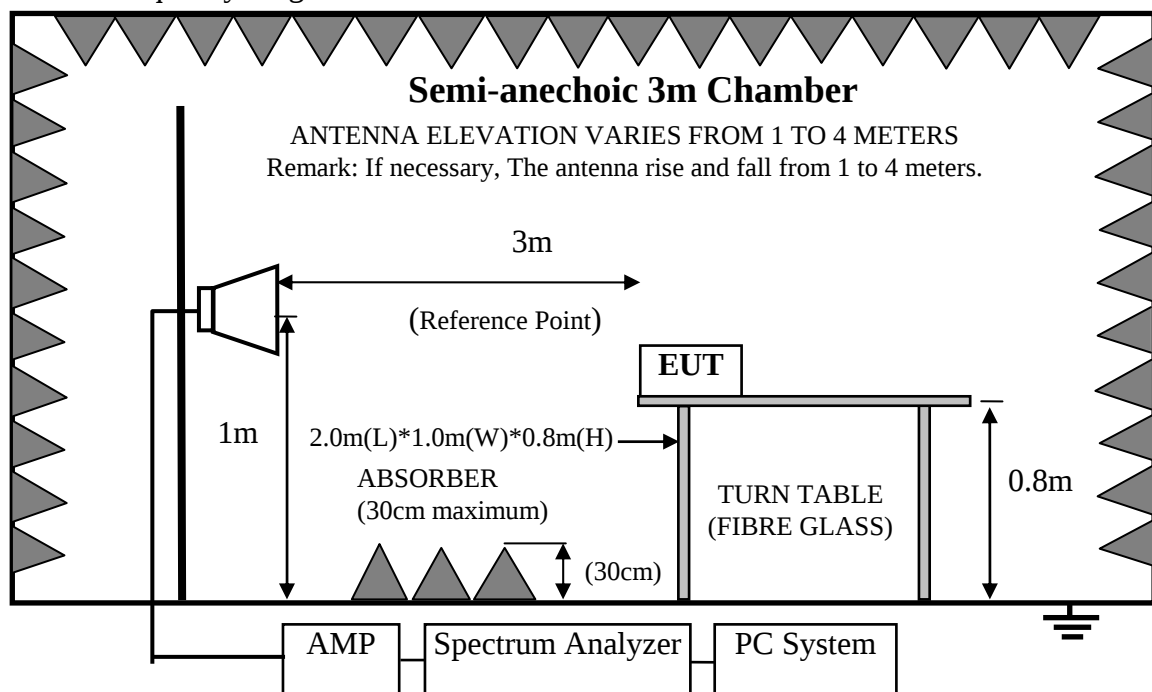
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	Aug.27, 13	1 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
5	RF Cable	Hubersuhner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

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-6GHz



4.3. Radiated Emission Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits 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.	
		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%

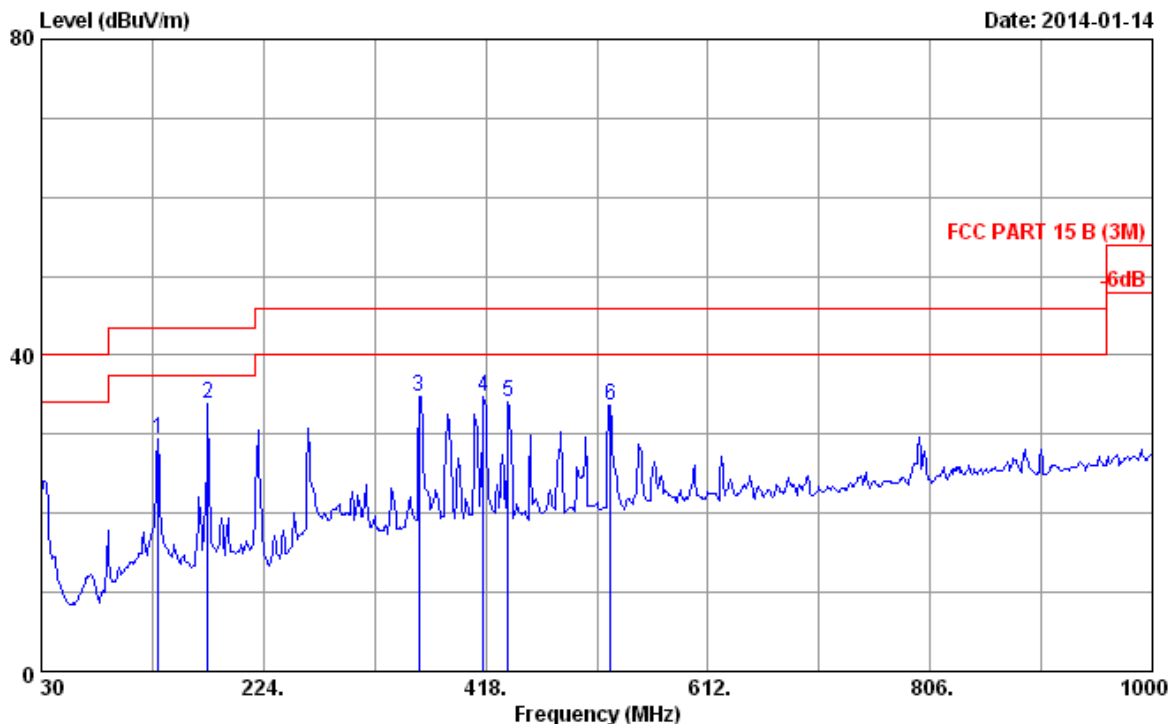
The details of test mode are as follows :

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

Data: 42

File: E:\2013 Report Data\C\Coroporative Lanix\ACS13Q2544.EM6 (45)

Date: 2014-01-14



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

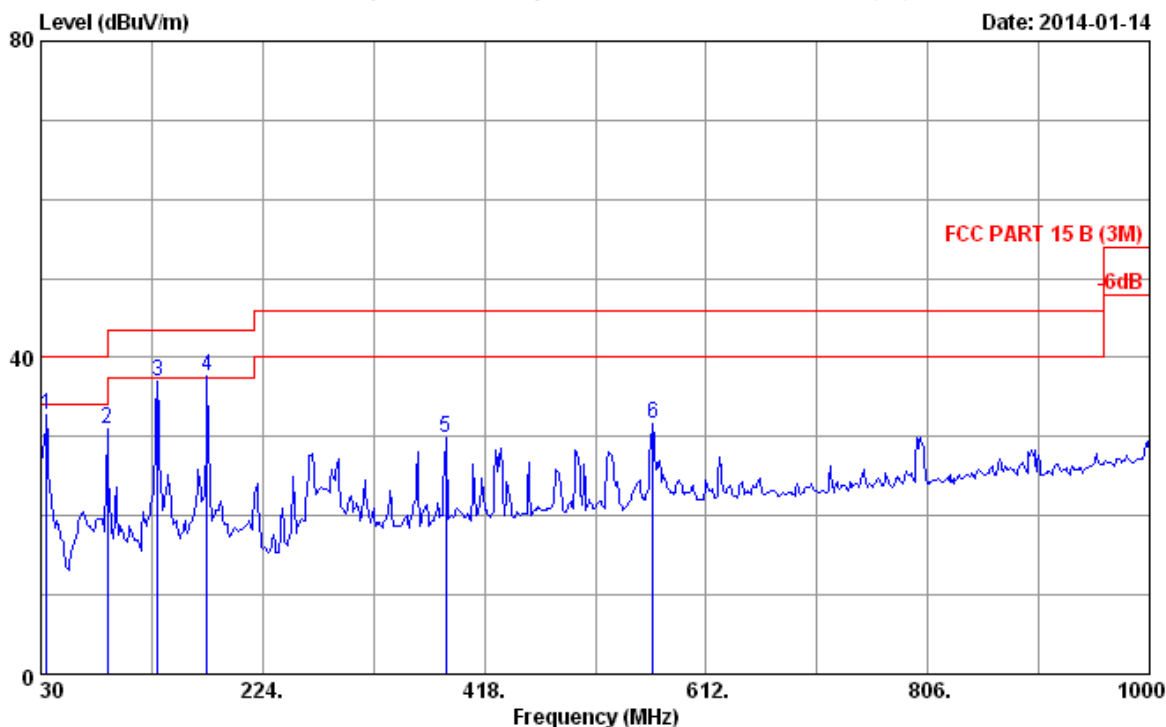
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	131.850	12.71	1.53	15.26	29.50	43.50	14.00	QP
2	175.500	9.92	1.70	22.25	33.87	43.50	9.63	QP
3	359.800	15.70	2.34	16.69	34.73	46.00	11.27	QP
4	416.060	17.32	2.51	14.96	34.79	46.00	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.
 2. 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 dBuV/m (Limit is 43.50 dBuV/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.

Data: 43

File: E:\2013 Report Data\C\Coroporative Lanix\ACS13Q2544.EM6 (45)

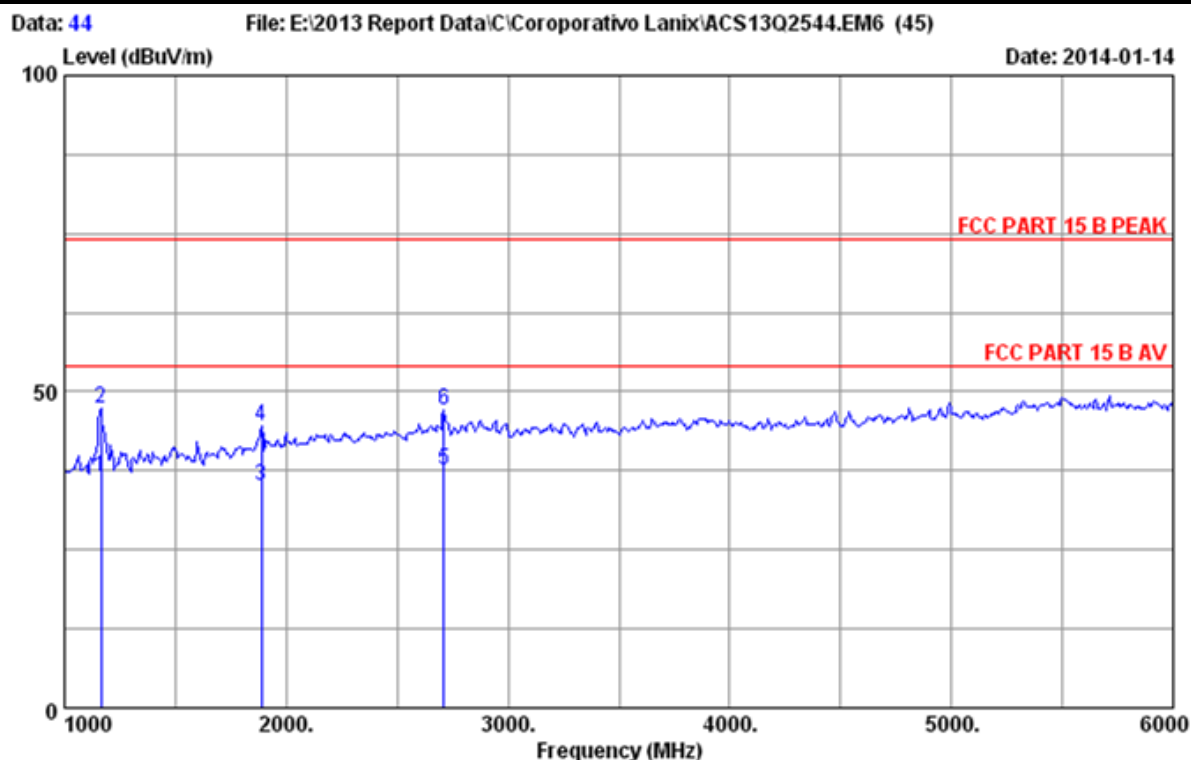
Date: 2014-01-14



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)	Cable Loss (dB)	Reading (dBuV)	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.
 2. 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 dBuV/m (Limit is 43.50 dBuV/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.



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

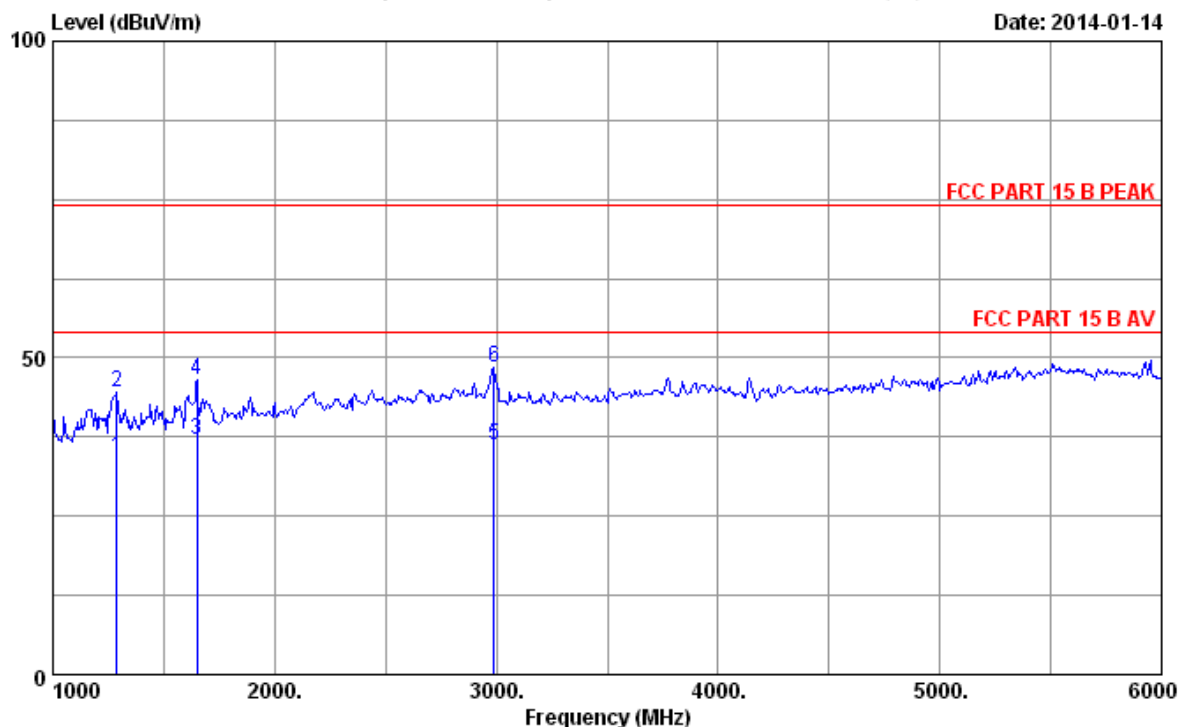
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1165.000	23.43	1.59	36.05	47.50	36.47	54.00	17.53	Average
2	1165.000	23.43	1.59	36.05	58.41	47.38	74.00	26.62	Peak
3	1890.000	24.18	2.30	34.97	43.63	35.14	54.00	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
 2. The emission levels that are 20dB below the official
 limit are not reported.

Data: 45

File: E:\2013 Report Data\C\Coroporative Lanix\ACS13Q2544.EM6 (45)

Date: 2014-01-14



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

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
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
 2. The emission levels that are 20dB below the official
 limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]