

Issue Date: May 21, 2012 Ref. Report No. ISL-12HE131FA

Product Name : PCIe-PoE Card Series
Models : PCIe-PoE4+; PCIe-PoE2+
Applicant : Neousys Technology Inc.

Address : 15F., No.868-3, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23586,

Taiwan(R.O.C.)

We, **International Standards Laboratory**, hereby certify that:

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified. (refer to Test Report if any modifications were made for compliance).

Standards:



FCC CFR Title 47 Part 15 Subpart B: 2010- Section 15.107 and 15.109 ANSI C63.4-2009

Industry Canada Interference-Causing Equipment Standard ICES-003 Issue 4: 2004 Class A

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

International Standards Laboratory

Jim Chu / Director

⊠ Hsi-Chih LAB:

No. 65, Gu Dai Keng St., Hsichih District, New Taipei City 22117, Taiwan

Tel: 886-2-2646-2550; Fax: 886-2-2646-4641



FCC TEST REPORT

CFR 47 Part 15 Subpart B Class A

Product: PCIe-PoE Card Series

Models: **PCIe-PoE4+**; **PCIe-PoE2+**

Applicant: Neousys Technology Inc.

Address: 15F., No.868-3, Zhongzheng Rd., Zhonghe

Dist., New Taipei City 23586, Taiwan(R.O.C.)

Test Performed by:

International Standards Laboratory

<Hsi-Chih LAB>

*Site Registration No.

BSMI:SL2-IN-E-0037; SL2-R1/R2-E-0037; TAF: 1178;

IC: IC4067A-1; VCCI: R-341,C-354, T-1749, G-443; NEMKO: ELA

113A

*Address:

No. 65, Gu Dai Keng St.

Hsichih District, New Taipei City 22117, Taiwan *Tel: 886-2-2646-2550; Fax: 886-2-2646-4641

Report No.: ISL-12HE131FA

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This report totally contains 23 pages including this cover page and contents page.

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory.



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1. General

1.1 Certification of Accuracy of Test Data

Standards: FCC CFR Title 47 Part 15 Subpart B: 2010- Section

15.107 and 15.109 ANSI C63.4-2009

Industry Canada Interference-Causing Equipment

Standard ICES-003 Issue 4: 2004

Equipment Tested: PCIe-PoE Card Series

Models: PCIe-PoE4+; PCIe-PoE2+

Applicant: Neousys Technology Inc.

Sample received Date: May 3, 2012

Final test Date: refer to the date of test data

Test Site: International Standards Laboratory

OATS 01; Chamber 01; Conduction 01

Test Distance: 10M; 3M (above1GHz)

Temperature: refer to each site test data

Humidity: refer to each site test data

Input power: Conduction input power: AC 120 V / 60 Hz

Radiation input power: AC 120 V / 60 Hz

Report Number: ISL-12HE131FA

Test Result: PASS

Test Engineer:

Approved By:

Report Engineer: Winnie Huang

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Louis Yu

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Eddy Hsiung



1.2 Description of EUT

EUT

Product Name	PCIe-PoE Card Series
Condition	Pre-Production
Model Number(s)	PCIe-PoE4+; PCIe-PoE2+
Serial Number	N/A
Power Supply	From Personal Computer Power Supply
LAN Port	four 8-pins (10/100/1000M bps)
Maximum Operating Frequency	1GHz

Radiated \cdot Radiated Above1GHz \cdot Conduction LISN test configurations are listed below. We present the worst case test data (Configurations: 1) in the report.

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Configurations	Model
1	PCIe-PoE4+
2	PCIe-PoE2+

Model Difference

Model	Port
PCIe-PoE4+	4
PCIe-PoE2+	2

EMI Noise Source

21/11/1/01/04/05/05/01/04
Crystal
25MHz(X1), 25MHz(X2), 25MHz(X3), 25MHz(X4)

EMI Solution

N/A



1.3 Description of Support Equipment

Unit	Model Serial No.	Brand	Power Cord	FCC ID
Personal Computer	LI945G5C S/N: A70427-0369	Lemel	N/A	FCC DOC
Keyboard	SK-8110, S/N: MY-05N456-38843-2BK-3315	DELL	N/A	FCC DOC
Mouse	MO71KC S/N: N/A	DELL	N/A	FCC DOC
17" LCD Monitor	VA703B	View Sonic	Non-shielded, Detachable	FCC DOC
Modem	DM1414 S/N: 0301000557	Aceex	Non-shielded, Without Grounding Pin	IFAXDM1414
Printer	LQ-300+II S/N: G88Y109612	EPSON	Non-shielded, Detachable	FCC DOC
Camera Gigabit Ethernet	acA2500-14gc S/N:21134009	BASLER	N/A	FCC DOC
Camera Gigabit Ethernet	acA1600-20gm S/N:21137422	BASLER	N/A	FCC DOC
Camera Gigabit Ethernet	acA640-100gc S/N:21011292	BASLER	N/A	FCC DOC
PoE Network Camera	FCS-1091 S/N:07122400144	LevelOne	N/A	FCC DOC



1.4 Software for Controlling Support Unit

Test programs exercising various part of EUT were used. The programs were executed as follows:

- A. Read and write to the disk drives.
- B. Send H pattern to the parallel port device (Printer)
- C. Send H pattern to the serial port device (Modem)
- D. Send H pattern to the video port device (Monitor)
- E. PC receive the Camera Gigabit Ethernet signal through the EUT with pylon Viewer.exe
- F. PC receive the PoE Network Camera signal through the EUT with Internet Explorer.exe
- G. Repeat the above steps.

	Filename	Issued Date
Monitor	Intel EMCTEST.exe	9/04/2000
Modem	Intel EMCTEST.exe	9/04/2000
Printer	Wordpad.exe	11/11/1999
Camera Gigabit Ethernet	pylon Viewer.exe	3/05/2012
PoE Network Camera	Internet Explorer.exe	4/30/2011

1.5 I/O Cable Condition of EUT and Support Units

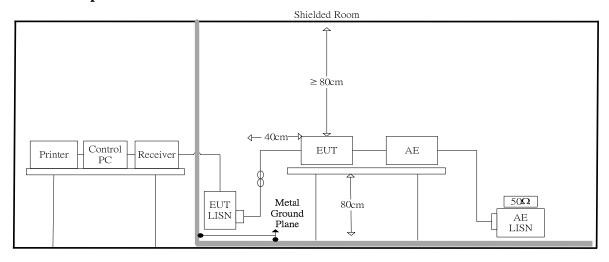
Description	Path	Cable Length	Cable Type	Connector Type
AC Power Cord	110V (~240V) to PC SPS	1.8M	Non-shielded, Detachable	Metal Head
Keyboard Data Cable	Keyboard to PC PS2 port	1.8M	Shielded, Un-detachable	Metal Head
Mouse Data Cable	Mouse to PC PS2 port	1.8M	Shielded, Un-detachable	Metal Head
LCD Monitor Data Cable	LCD Monitor D-Sub Port to PC D-Sub Port	1.88 M	Non-shielded, Detachable	Metal Head
Modem Data Cable	Modem to PC COM port	1.5M	Shielded, Detachable	Metal Head
Printer Data Cable	Printer to PC Parallel port	1.5M	Shielded, Detachable	Metal Head
LAN Data Cable*3	EUT LAN port to Camera Gigabit Ethernet LAN Port	10M	Non-shielded, Detachable	RJ-45, with Plastic Head
LAN Data Cable	EUT LAN Port to PoE Network Camera LAN Port	10M	Non-shielded, Detachable	RJ-45, with Plastic Head



2. Powerline Conducted Emissions

2.1 Test Setup and Procedure

2.1.1 Test Setup



2.1.2 Test Procedure

The measurements are performed in a $3.5 \text{m} \times 3.4 \text{m} \times 2.5 \text{m}$ shielded room, which referred as Conduction 01 test site, or a $3 \text{m} \times 3 \text{m} \times 2.3 \text{m}$ test site, which referred as Conduction 02 test site. The EUT was placed on non-conduction $1.0 \text{m} \times 1.5 \text{m}$ table, which is 0.8 meters above an earth-grounded.

Power to the EUT was provided through the LISN which has the Impedance (50ohm/50uH) vs. Frequency Characteristic in accordance with the standard. Power to the LISNs were filtered to eliminate ambient signal interference and these filters were bonded to the ground plane. Peripheral equipment required to provide a functional system (support equipment) for EUT testing was powered from the second LISN through a ganged, metal power outlet box which is bonded to the ground plane at the LISN.

The interconnecting cables were arranged and moved to get the maximum measurement. Both the line of power cord, hot and neutral, were measured.

The highest emissions were analyzed in details by operating the spectrum analyzer in fixed tuned mode to determine the nature of the emissions and to provide information which could be useful in reducing their amplitude.

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2.1.3 EMI Receiver/Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range: 150KHz~30MHz

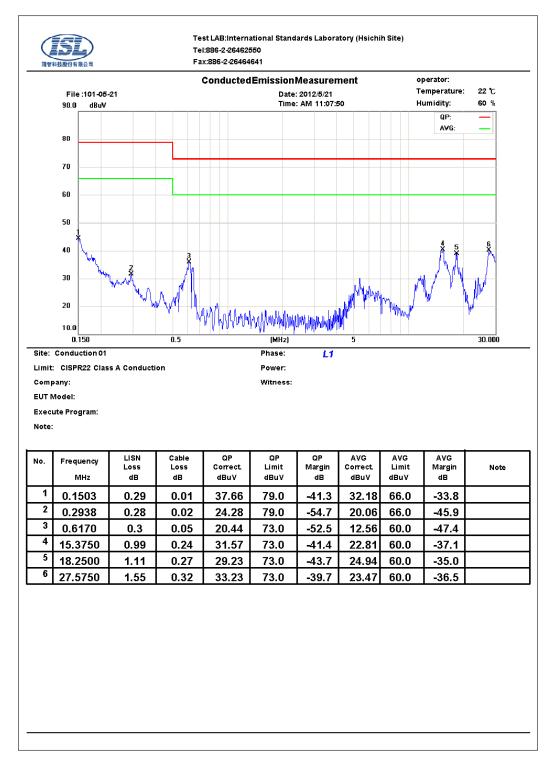
Detector Function: Quasi-Peak / Average Mode

Resolution Bandwidth: 9KHz



2.2 Conduction Test Data: Configuration 1

Table 2.2.1 Power Line Conducted Emissions (Hot)



Note:

 $Margin = Corrected\ Amplitude\ -\ Limit$

 $Corrected\ Amplitude = Receiver\ Reading + LISN\ Loss + Cable\ Loss$

A margin of -8dB means that the emission is 8dB below the limit

The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result. If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead. The CISPR 22 limits would be applied to all FCC Part 15 devices.



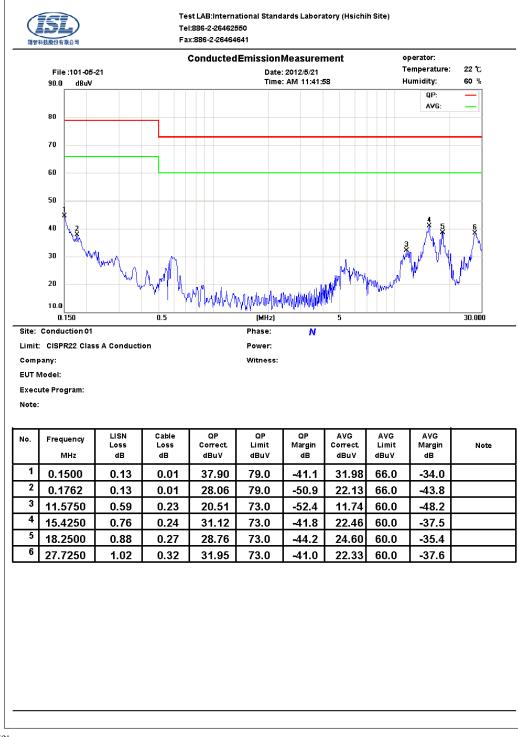


Table 2.2.2 Power Line Conducted Emissions (Neutral)

Note:

Margin = Corrected Amplitude - Limit

 $Corrected\ Amplitude = Receiver\ Reading + LISN\ Loss + Cable\ Loss$

A margin of -8dB means that the emission is 8dB below the limit

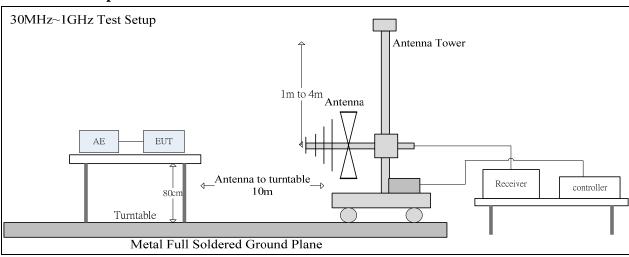
The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result. If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead. The CISPR 22 limits would be applied to all FCC Part 15 devices.

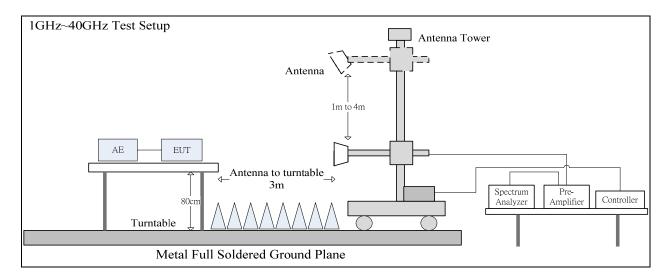


3. Radiated Emissions

3.1 Test Setup and Procedure

3.1.1 Test Setup





3.1.2 Test Procedure

The radiated emissions test will then be repeated on the open site or chamber to measure the amplitudes accurately and without the multiple reflections existing in the shielded room. The EUT and support equipment are set up on the turntable of one of 10 meter open field sites or 10 meter chamber. Desktop EUT are set up on a wooden stand 0.8 meter above the ground or floor-standing arrangement shall be placed on the horizontal ground reference plane. The test volume for a height of up to 30 cm may be obstructed by absorber placed on the ground plane.

For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. The highest emissions between 30 MHz to 1000 MHz were analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of



of the emissions. The highest emissions between 1 GHz to 40 GHz were analyzed in details by operating the spectrum analyzer in peak and average mode to determine the precise amplitude of the emissions.

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the antenna in the cone of radiation from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response. At the highest amplitudes observed, the EUT is rotated in the horizontal plane while changing the antenna polarization in the vertical plane to maximize the reading. The interconnecting cables were arranged and moved to get the maximum measurement. Once the maximum reading is obtained, the antenna elevation and polarization will be varied between specified limits to maximize the readings.

The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 6 times the highest frequency or 40 GHz, whichever is less. Spectrum Analyzer Configuration (for the frequencies tested).

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3.1.3 Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range: 30MHz--1000MHz Detector Function: Quasi-Peak Mode

Resolution Bandwidth: 120KHz

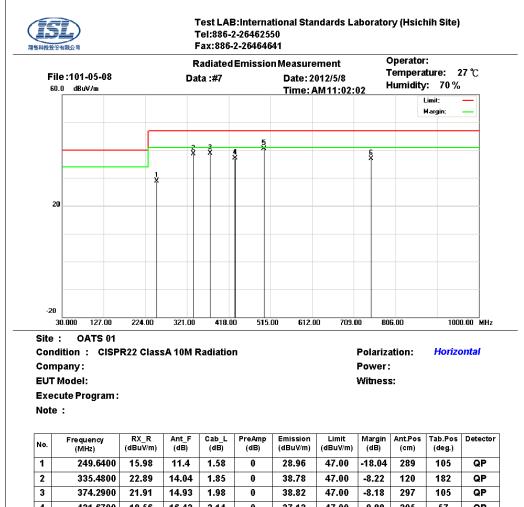
Frequency Range: Above 1000MHz
Detector Function: Peak/Average Mode

Resolution Bandwidth: 1MHz



3.2 Radiation Test Data: Configuration 1

Table 3.2.1 Radiated Emissions (Horizontal)



No.	Frequency (MHz)	RX_R (dBuV/m)	Ant_F (dB)	Cab_L (dB)	PreAmp (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	249.6400	15.98	11.4	1.58	0	28.96	47.00	-18.04	289	105	QP
2	335.4800	22.89	14.04	1.85	0	38.78	47.00	-8.22	120	182	QP
3	374.2900	21.91	14.93	1.98	0	38.82	47.00	-8.18	297	105	QP
4	431.6700	18.56	16.42	2.14	0	37.12	47.00	-9.88	305	57	QP
5	499.8600	20.21	17.9	2.31	0	40.42	47.00	-6.58	100	358	QP
6	749.2100	13.47	20.59	2.88	0	36.94	47.00	-10.06	148	26	QP

* Note:

Margin = Corrected Amplitude – Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss - Pre-Amplifier Gain

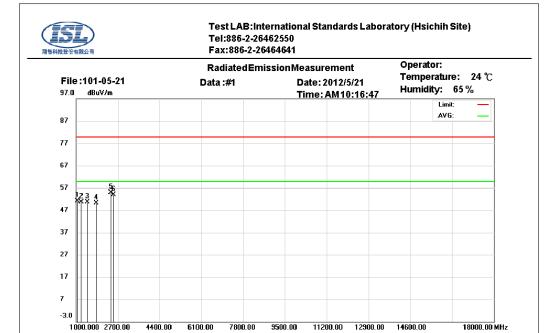
A margin of -8dB means that the emission is 8dB below the limit

BILOG Antenna Distance: 10 meters

The CISPR 22 limits would be applied to all FCC Part 15 devices.

Below 1GHz test, if the peak measured value meets the QP limit, it is unnecessary to perform the QP measurement. measurement.





Site: Chamber 01

Condition: FCC Class A Radiation Polarization: Horizontal

Company: Power: EUT Model: Witness:

Execute Program:

Note:

Mk.	Frequency (MHz)	RX_R (dBuV/m)	Ant_F (dB)	Cab_L (dB)	PreAmp (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	1050.130	75.65	24.49	3	51.95	51.19	80.00	-28.81	145	83	peak
2	1205.260	74.57	24.77	3.21	51.99	50.56	80.00	-29.44	152	329	peak
3	1450.765	74.00	25.21	3.55	52.04	50.72	80.00	-29.28	100	153	peak
4	1805.200	71.72	26.58	3.99	52.1	50.19	80.00	-29.81	250	205	peak
5	2400.940	74.04	28.28	4.64	52.09	54.87	80.00	-25.13	295	178	peak
6	2515.520	72.73	28.55	4.76	52.08	53.96	80.00	-26.04	145	64	peak

*:Maximum data x:Over limit !:over margin

 $Margin = Corrected\ Amplitude - Limit$

 $Corrected\ Amplitude = Radiated\ Amplitude + Antenna\ Correction\ Factor + Cable\ Loss - Pre-Amplifier\ Gain$

A margin of -8dB means that the emission is 8dB below the limit

Horn Antenna Distance: 3 meters

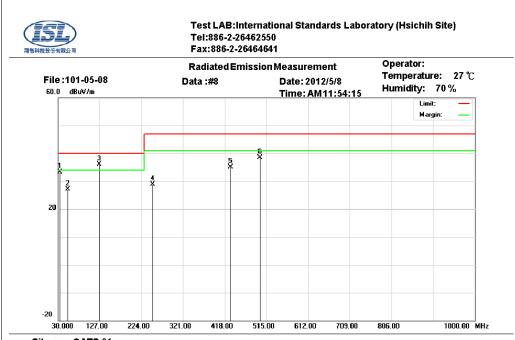
The CISPR 22 limits would be applied to all FCC Part 15 devices.

Above 1GHz test, if the peak measured value meets the average limit, it is unnecessary to perform the average measurement.

^{*} Note:



Table 3.2.2 Radiated Emissions (Vertical)



Site: OATS 01

Condition: CISPR22 ClassA 10M Radiation Polarization: Vertical

Company: Power: EUT Model: Witness:

Execute Program:

Note:

No.	Frequency (MHz)	RX_R (dBuV/m)	Ant_F (dB)	Cab_L (dB)	PreAmp (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	33.5600	14.15	18.54	0.61	0	33.30	40.00	-6.70	153	313	QP
2	51.4700	18.55	7.81	0.74	0	27.10	40.00	-12.90	113	185	QP
3	125.8800	21.09	13.98	1.11	0	36.18	40.00	-3.82	100	289	QP
4	249.6200	15.98	11.4	1.58	0	28.96	47.00	-18.04	384	325	QP
5	431.4500	16.56	16.42	2.14	0	35.12	47.00	-11.88	100	28	QP
6	499.7700	18.21	17.9	2.31	0	38.42	47.00	-8.58	260	97	QP

* Note:

Margin = Corrected Amplitude - Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss - Pre-Amplifier Gain

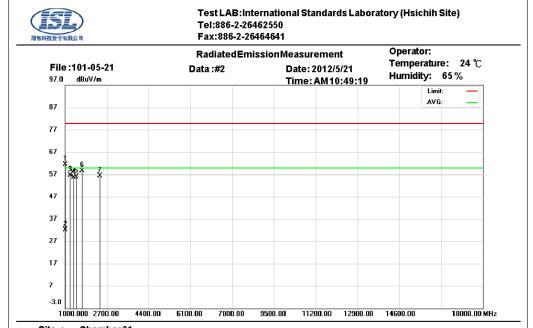
A margin of -8dB means that the emission is 8dB below the limit

BILOG Antenna Distance: 10 meters

The CISPR 22 limits would be applied to all FCC Part 15 devices.

Below 1GHz test, if the peak measured value meets the QP limit, it is unnecessary to perform the QP measurement. measurement.





Site: Chamber 01

Condition: FCC Class A Radiation Polarization: Vertical

Company: Power: EUT Model: Witness:

Execute Program:

Note:

Mk.	Frequency (MHz)	RX_R (dBuV/m)	Ant_F (dB)	Cab_L (dB)	PreAmp (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	1010.650	86.07	24.42	2.94	51.94	61.49	80.00	-18.51	151	178	peak
2	1010.650	56.73	24.42	2.94	51.94	32.15	60.00	-27.85	151	178	AVG
3	1205.728	80.70	24.77	3.21	51.99	56.69	80.00	-23.31	192	170	peak
4	1345.900	79.28	25.02	3.41	52.02	55.69	80.00	-24.31	100	26	peak
5	1450.314	79.26	25.21	3.55	52.04	55.98	80.00	-24.02	100	310	peak
6	1660.270	80.87	25.97	3.81	52.08	58.57	80.00	-21.43	295	194	peak
7	2394.620	75.45	28.27	4.63	52.09	56.26	80.00	-23.74	100	271	peak

*:Maximum data x:Over limit !:over margin

Margin = Corrected Amplitude - Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss - Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

Horn Antenna Distance: 3 meters

The CISPR 22 limits would be applied to all FCC Part 15 devices.

Above 1GHz test, if the peak measured value meets the average limit, it is unnecessary to perform the average measurement.

^{*} Note:



4. Appendix

4.1 Appendix A: Warning Labels

Label Requirements

A Class A digital device subject to certification by the FCC shall carry a warning label which includes the following statement:

* * * * W A R N I N G * * *

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



4.2 Appendix B: Warning Statement

Statement Requirements

The operators' manual for a Class A digital device shall contain the following statements or their equivalent:

* * * W A R N I N G * * *

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and uses in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

* * * * * * * *

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If the EUT was tested with special shielded cables the operators manual for such product shall also contain the following statements or their equivalent:

Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.



4.3 Appendix C: Test Equipment

4.3.1 Test Equipment List

Location	Equipment Name	Brand	Model	S/N	Last Cal.	Next Cal.
CON01					Date	Date
Conduction	Coaxial Cable 1F-C1	EMEC	5D Cable	1F-C1	10/25/2011	10/25/2012
Conduction	LISN 02	EMCO	3825/2	1407	07/28/2011	07/28/2012
Conduction	LISN 03	R&S	ESH3-Z5 831.5518.52	828874/010	07/28/2011	07/28/2012
Conduction	ISN T2 03	FCC	FCC-TLISN-T 2-02	20618	07/28/2011	07/28/2012
Conduction	ISN T4 05	FCC	FCC-TLISN-T 4-02	20619	07/28/2011	07/28/2012
Conduction	ISN T8 03	FCC	FCC-TLINS-T 8-02	20620	07/28/2011	07/28/2012
Conduction	EMI Receiver 15	ROHDE & SCHWARZ	ESCI	101166	04/24/2012	04/24/2013

Location	Equipment Name	Brand	Model	S/N	Last Cal.	Next Cal.
OATS01					Date	Date
Radiation	BILOG Antenna 10	Sumol Sciences	JB1	A013004-1	07/18/2011	07/18/2012
Radiation	Coaxial Cable 3F-10M	EMCI	CFD400-NL	ISL-R001	03/16/2012	03/16/2013
Radiation	EMI Receiver 13	ROHDE & SCHWARZ	ESCI	101015	02/22/2012	02/22/2013

Location Chamber 01	Equipment Name	Brand	Model	S/N		Next Cal. Date
Rad. above 1Ghz	Horn Antenna 01	EMCO	3115	9504-4462	11/23/2011	11/23/2012
Rad. above 1Ghz	Horn Antenna 03	COM-Power	AH-826	100A	03/15/2011	03/15/2013
Rad. above 1Ghz	Microwave Cable-06	HUBER SUHNER	SUCFLEX 106	60404/6	07/13/2011	07/13/2012
Rad. above 1Ghz	Preamplifier 17	EMCI	EMC 01630	980009	08/03/2011	08/03/2012
Rad. above 1Ghz	Preamplifier 20	EMCI	EMC051845	980084	10/26/2011	10/26/2012
Rad. above 1Ghz	Spectrum Analyzer 23	ROHDE & SCHWARZ	FSU43	101255	10/06/2011	10/06/2012

4.3.2 Software for Controlling Spectrum/Receiver and Calculating Test Data

Radiation/Conduction	Filename	Version	Issued Date	
Hsichih Conduction	EZ EMC	1.1.4.2	2/10/2007	
Hsichih Radiation	EZ EMC	1.1.4.2	1/24/2007	



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4.4 Appendix D: Uncertainty of Measurement

The measurement uncertainty refers to CISPR 16-4-2:2003. The coverage factor k=2 yields approximately a 95 % level of confidence.

<Conduction 01> ± 3.262 dB

<OATS 01 (10M)>

Horizontal

30MHz~200MHz: ±4.216 dB 200MHz~1GHz: ±4.438 dB

Vertical

30MHz~200MHz: ±4.342 dB 200MHz~1GHz: ±4.426 dB

<Chamber 01 (3M)>

 $1 \text{GHz} \sim 18 \text{GHz}: \pm 3.515 \text{dB} \\ 18 \text{GHz} \sim 26.5 \text{GHz}: \pm 3.424 \text{dB}$



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4.5 Appendix E: Photographs of EUT Configuration Test Set Up

The Front View of Highest Conducted Set-up For EUT





The Back View of Highest Conducted Set-up For EUT







The Front View of Highest Radiated Set-up For EUT (below 1GHz)



The Back View of Highest Radiated Set-up For EUT (below 1GHz)





The Front View of Highest Radiated Set-up For EUT (above 1GHz)



The Back View of Highest Radiated Set-up For EUT (above 1GHz)

