

Jyh Eng Technology Co., Ltd.

Power Over Ethernet

Model Number: POE (5V/1.5A)/POE (7.5V/1.5A)/POE (12V/1A)

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Report Number : ACS-F04132
Date of Test : May 08~18, 2004
Date of Report : Jun.02, 2004

TABLE OF CONTENTS

Description	Page
FCC Test Report for Declaration of Conformity	
1. GENERAL INFORMATION	1-4
1.1. Description of Device (EUT)	1-4
1.2. Tested Supporting System Details	1-4
1.3. Test Facility	1-5
1.4. Test Uncertainty	1-5
2. POWER LINE CONDUCTED EMISSION TEST.....	2-1
2.1. Test Equipment	2-1
2.2. Block Diagram of Test Setup	2-1
2.3. Power Line Conducted Emission Test Limits	2-2
2.4. Configuration of EUT on Test	2-2
2.5. Operating Condition of EUT	2-2
2.6. Test Procedure	2-2
2.7. Power Line Conducted Emission Test Results	2-3
3. RADIATED EMISSION TEST	3-1
3.1. Test Equipment	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Radiated Emission Limit	3-2
3.4. EUT Configuration on Test	3-2
3.5. Operating Condition of EUT	3-3
3.6. Test Procedure	3-3
3.7. Radiated Emission Test Result	3-4
4. DEVIATION TO TEST SPECIFICATIONS	4-1
5. PHOTOGRAPH.....	5-1
5.1. Photos of Power Line Conducted Emission Test	5-1
5.2. Photos of Radiated Emission Test	5-2
 APPENDIX I	 (7 pages)
APPENDIX II	(7 pages)

TEST REPORT DECLARATION

Applicant : Jyh Eng Technology Co., Ltd.
 Manufacturer : Inventa Industrial Co., Ltd.
 EUT Description : Power Over Ethernet
 (A) MODEL NO. : POE (5V/1.5A)/POE (7.5V/1.5A)/POE (12V/1A)
 (B) SERIAL NO. : F2004060201
 (C) POWER SUPPLY : Adaptor AC Input 120V/60Hz Output DC 24V

Test Procedure Used:
 FCC Rules and Regulations Part 15 Subpart B Class B Aug, 2003.

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 Class B limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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

This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date of Test : May 08~18, 2004

Prepared by : Elsa Wu
 Elsa Wu / Assistant

Reviewer : Lake Wang
 Lake Wang / Supervisor



Approved & Authorized Signer : Alex Deng
 Alex Deng / Assistant Manager

Name of the Representative of the Responsible Party : _____

Signature : _____

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Power Over Ethernet
Model Number	:	POE (5V/1.5A)/POE (7.5V/1.5A)/POE (12V/1A)
Applicant	:	Jyh Eng Technology Co., Ltd. 5F, No. 11, Lane 1, Sec. 1, Yung-An. S. Rd., Lujou City, Taipei County, Taiwan 247
Manufacturer	:	Inventa Industrial Co., Ltd. Dongguan, Feng Gang Chu Tang, Kwang Tung, China
Data Cable	:	Shielded, Detachable, 1.3m
Power Cord	:	Unshielded, Detachable, 1.6m
Date of Test	:	May.08~18, 2004

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER #1&2

Model Number	:	DIMENSION 2400
Manufacturer	:	Dell

1.2.2. Power Adaptor

Model Number	:	UE20-240080SPA1
Manufacturer	:	Fuhua
S/N	:	UE030506W1
Data Cable	:	Unshielded, Undetachable, 1.5m

1.3. Test Facility

Site Description

3m Anechoic Chamber : Certificated by FCC, USA
Aug. 15, 2003

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Mar. 15, 2004

EMC Lab. : Certificated by DATech, German
Feb. 02, 2004

Certificated by NVLAP, USA
NVLAP Code: 200372-0
Mar. 31, 2004

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

Site Location : No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

1.4. Test Uncertainty

Conducted Emission Uncertainty = $\pm 2.66\text{dB}$

Radiated Emission Uncertainty = $\pm 4.26\text{dB}$

2. POWER LINE CONDUCTED EMISSION TEST

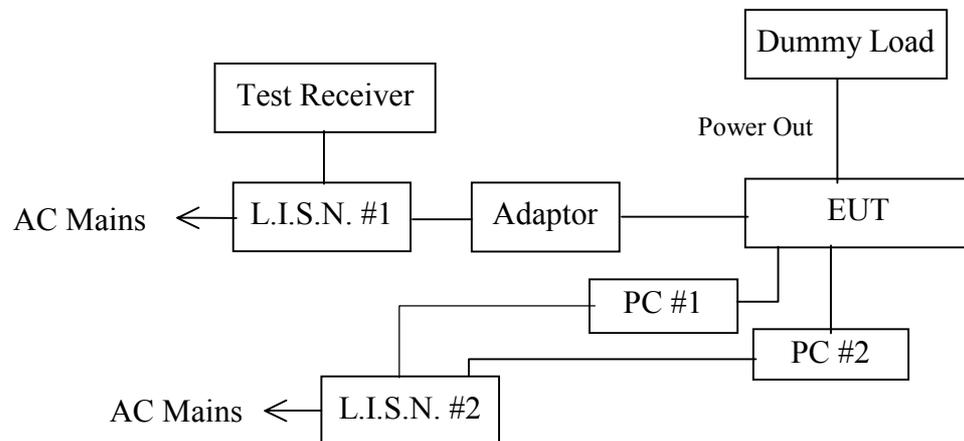
2.1. Test Equipment

The following test equipments are used during the power line conducted emission test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 24,04	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-541-4	May 24,04	1 Year
3.	L.I.S.N. #2	R&S	ESH2-Z5	834066/011	May 24,04	1 Year
4.	Terminator	EMCO	50Ω	No. 1	May 24,04	1 Year
5.	Terminator	EMCO	50Ω	No. 2	May 24,04	1 Year
6.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Feb.20, 04	1/2 Year
7.	Coaxial Switch	Anritsu	MP59B	M55367	May 29, 04	1/2 Year
8.	PC	N/A	586ATXS	N/A	N/A	N/A
9.	Printer	HP	Laserjet2100	SGGJ092351	N/A	N/A

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



(EUT: Power Over Ethernet)

2.3. Power Line Conducted Emission Test Limits

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

2.4. 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.

2.4.1. Power Over Ethernet (EUT)

Model Number : POE (5V/1.5A)/POE (7.5V/1.5A)/POE (12V/1A)

Serial Number : F2004060201

Manufacturer : Inventa Industrial Co., Ltd.

2.4.2. Support Equipment : As Tested Supporting System Detail, in Section 1.2..

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown as Section 2.2.

2.5.2. Turn on the power of all equipment.

2.5.3. Let the EUT work in test mode (Running) and test it.

2.6. Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Power on the EUT and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2001 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 2.7., all the scanning waveforms for Conducted Emission Test are attached in Appendix I.

2.7.Power Line Conducted Emission Test Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

All emissions not reported below are too low against the prescribed limits.

Date of Test : Apr.18, 2004 Temperature : 24°C
 EUT : Power Over Ethernet Humidity : 56%
 Model No. : POE (12V/1A) Test Mode : Running
 Test Engineer : Seco

Frequency (MHz)	Reading (dBμV)				Limit (dBμV)	
	VA		VB		Quasi-Peak	Average
	Quasi-Peak	Average	Quasi-Peak	Average		
0.205	50.19	47.19	*	*	63.40	53.40
0.214	*	*	50.58	46.57	63.05	53.05
0.302	48.52	44.52	*	*	60.19	50.19
0.327	*	*	47.05	42.05	59.53	49.53
0.604	50.07	41.07	48.14	39.14	56.00	46.00
0.909	*	*	48.21	40.21	56.00	46.00
0.914	47.03	41.03	*	*	56.00	46.00
2.500	46.21	41.21	*	*	56.00	46.00
2.915	*	*	46.23	40.22	56.00	46.00
5.836	31.15	29.15	*	*	60.00	50.00
6.805	*	*	30.24	28.24	60.00	50.00

"*" As the QP value is too low against AV limit, So AV Value had been omitted.

Reviewer:

Case Wang

3. RADIATED EMISSION TEST

3.1. Test Equipment

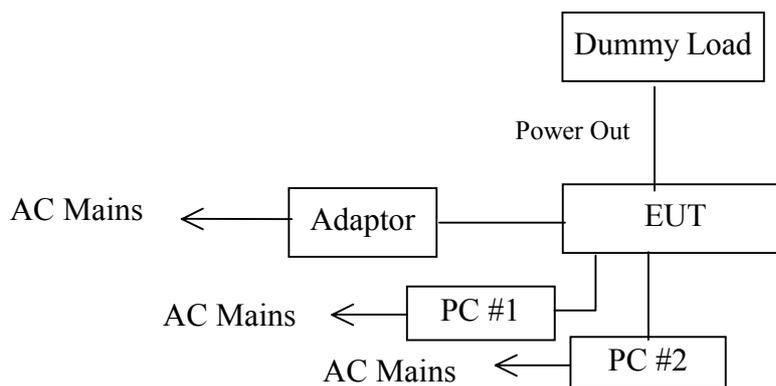
The following test equipments are used during the radiated emission test:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Analyzer	HP	8591EM	3628A00914	May 24,04	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 24,04	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar.17, 04	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 13, 04	1 Year
5.	PC	N/A	586ATX3	N/A	N/A	N/A
6.	Printer	HP	Laserjet6P	SGCF019673	N/A	N/A
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Feb.01, 04	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Feb.01, 04	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Feb.01, 04	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Feb.01, 04	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M73989	May 27, 04	1/2 Year

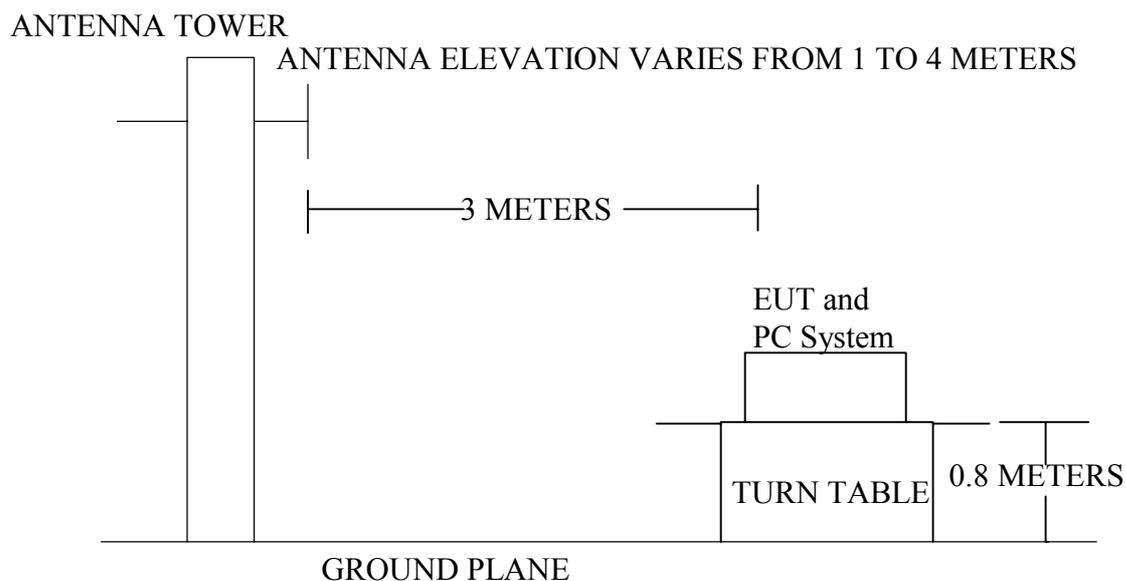
3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Power Over Ethernet)

3.2.2. In Anechoic Chamber



3.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

- Remark :
- (1) Emission level $(\text{dB})\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (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.

3.4. EUT Configuration on Test

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

3.4.1. Power Over Ethernet (EUT)

Model Number : POE (5V/1.5A)/POE (7.5V/1.5A)/POE (12V/1A)
 Serial Number : F2004060201
 Manufacturer : Inventa Industrial Co., Ltd.

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 1.2.

3.5. Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the EUT work in test mode (Running) and test it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz.

The frequency range from 30MHz to 1000MHz is checked.

The test mode (Running) is tested in Anechoic Chamber, and all the scanning waveforms are attached in Appendix II.

3.7. Radiated Emission Test Result

PASS.

The frequency range from 30MHz to 1000MHz is investigated.
Please see the following pages.

Date of Test :	May 08, 2004	Temperature :	24°C
EUT :	Power Over Ethernet	Humidity :	54%
Model No. :	POE (5V/1.5A)	Test Mode :	Running
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Over Limits dB	Limits dB μ V/m
78.50	8.24	1.54	15.08	24.86	-15.14	40.00
169.68	10.34	2.49	11.98	24.81	-18.69	43.50
308.39	13.45	3.24	9.01	25.70	-20.30	46.00
568.35	19.22	4.96	3.51	27.69	-18.31	46.00
625.58	19.55	5.09	6.42	31.06	-14.94	46.00
799.21	21.37	6.13	5.03	32.53	-13.47	46.00

- Remark: 1. All readings are Quasi-Peak values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The worst emission was detected at 799.21MHz with corrected signal level of 32.53dB μ V/m (Limit is 46.00dB μ V/m) when the antenna was at horizontal polarization and at 2.1m high and the turn table was at 56 ° .
 4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer:

Caife Wang

Date of Test : May 08, 2004 Temperature : 24°C
 EUT : Power Over Ethernet Humidity : 54%
 Model No. : POE (5V/1.5A) Test Mode : Running
 Test Engineer: Seco

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Over Limits dB	Limits dB μ V/m
33.88	13.59	1.23	11.10	25.92	-14.08	40.00
116.33	10.60	1.74	6.62	18.96	-24.54	43.50
235.64	11.67	3.00	8.25	22.92	-23.08	46.00
567.38	19.55	5.01	3.48	28.04	-17.96	46.00
604.24	19.45	5.09	5.82	30.36	-15.64	46.00
731.31	21.17	5.76	2.72	29.65	-16.35	46.00

- Remark: 1. All readings are Quasi-Peak values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The worst emission was detected at 33.88MHz with corrected signal level of 25.92dB μ V/m (Limit is 40.00dB μ V/m) when the antenna was at vertical polarization and at 1.1m high and the turn table was at 314° .
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Reviewer:

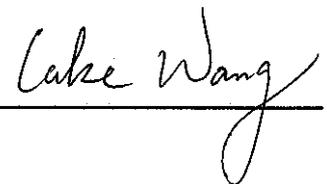
Caice Wang

Date of Test :	May 08, 2004	Temperature :	24°C
EUT :	Power Over Ethernet	Humidity :	54%
Model No. :	POE (7.5V/1.5A)	Test Mode :	Running
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Over Limits dB	Limits dB μ V/m
69.77	6.78	1.59	18.57	26.94	-13.06	40.00
170.65	10.29	2.51	10.96	23.76	-19.74	43.50
308.39	13.45	3.24	9.62	25.95	-20.05	46.00
565.44	19.30	4.96	6.29	30.55	-15.45	46.00
625.58	19.55	5.09	6.42	31.06	-14.94	46.00
799.21	21.37	6.13	3.65	31.15	-14.85	46.00

- Remark: 1. All readings are Quasi-Peak values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The worst emission was detected at 69.77MHz with corrected signal level of 26.94dB μ V/m (Limit is 40.00dB μ V/m) when the antenna was at horizontal polarization and at 1.9m high and the turn table was at 336 ° .
 4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer:

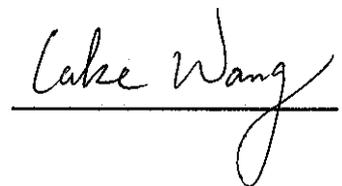


Date of Test :	<u>May 08, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>Power Over Ethernet</u>	Humidity :	<u>54%</u>
Model No. :	<u>POE (7.5V/1.5A)</u>	Test Mode :	<u>Running</u>
Test Engineer:	<u>Seco</u>		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Over Limits dB	Limits dB μ V/m
34.85	13.20	1.13	13.18	27.52	-12.48	40.00
69.77	8.22	1.59	15.75	25.55	-14.45	40.00
235.64	11.67	3.00	10.28	24.95	-21.05	46.00
532.46	18.07	4.65	4.03	26.75	-19.25	46.00
604.24	19.45	5.09	5.66	30.20	-15.80	46.00
799.21	21.60	6.13	3.86	31.59	-14.41	46.00

- Remark: 1. All readings are Quasi-Peak values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The worst emission was detected at 34.85MHz with corrected signal level of 27.52dB μ V/m (Limit is 40.00dB μ V/m) when the antenna was at vertical polarization and at 1.2m high and the turn table was at 326° .
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Reviewer:



Date of Test :	May 08, 2004	Temperature :	24°C
EUT :	Power Over Ethernet	Humidity :	54%
Model No. :	POE (12V/1A)	Test Mode :	Running
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB μ V	Emission Level Horizontal dB μ V/m	Over Limits dB	Limits dB μ V/m
76.56	7.99	1.56	15.65	25.19	-14.81	40.00
171.62	10.23	2.54	7.36	20.13	-23.37	43.50
307.42	13.44	3.23	6.87	23.55	-22.45	46.00
565.44	19.30	4.96	4.85	29.11	-16.89	46.00
625.58	19.55	5.09	6.42	31.06	-14.94	46.00
797.27	21.39	6.07	4.77	32.23	-13.77	46.00

- Remark: 1. All readings are Quasi-Peak values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The worst emission was detected at 797.27MHz with corrected signal level of 32.23dB μ V/m (Limit is 46.00dB μ V/m) when the antenna was at horizontal polarization and at 1.4m high and the turn table was at 42 ° .
 4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer: Cake Wang

Date of Test :	<u>May 08, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>Power Over Ethernet</u>	Humidity :	<u>54%</u>
Model No. :	<u>POE (12V/1A)</u>	Test Mode :	<u>Running</u>
Test Engineer:	<u>Seco</u>		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB μ V	Emission Level Vertical dB μ V/m	Over Limits dB	Limits dB μ V/m
34.85	13.20	1.13	13.70	28.03	-11.97	40.00
67.83	8.25	1.56	16.17	25.98	-14.02	40.00
235.64	11.67	3.00	9.28	23.95	-22.05	46.00
565.44	19.53	4.96	4.71	29.20	-16.80	46.00
665.35	19.79	5.20	4.03	29.02	-16.98	46.00
799.21	21.60	6.13	4.01	31.74	-14.26	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. The worst emission was detected at 34.85MHz with corrected signal level of 28.03dB μ V/m (Limit is 40.00dB μ V/m) when the antenna was at vertical polarization and at 1.3m high and the turn table was at 66° .

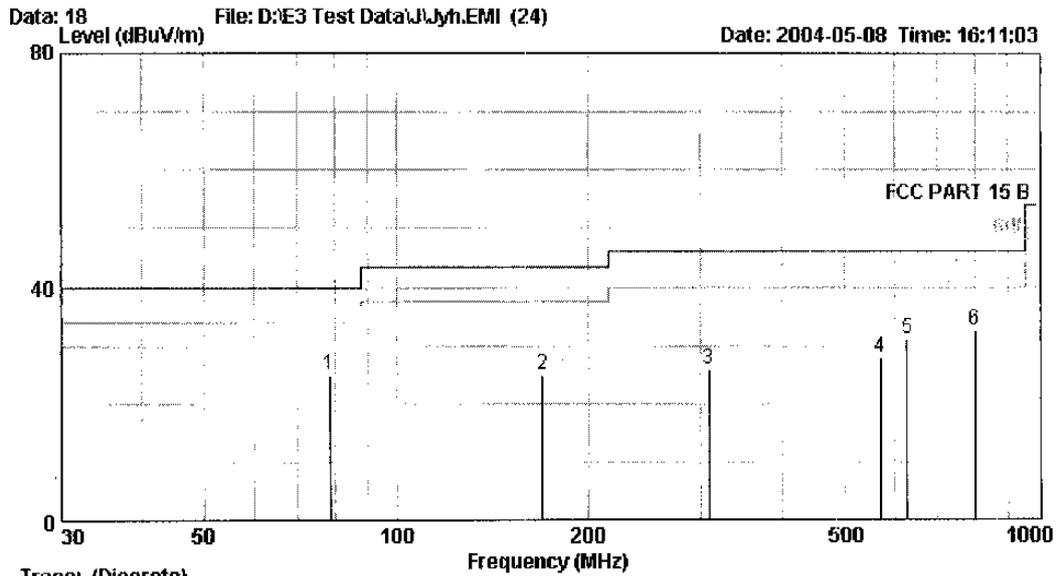
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Reviewer:

Cake Wang



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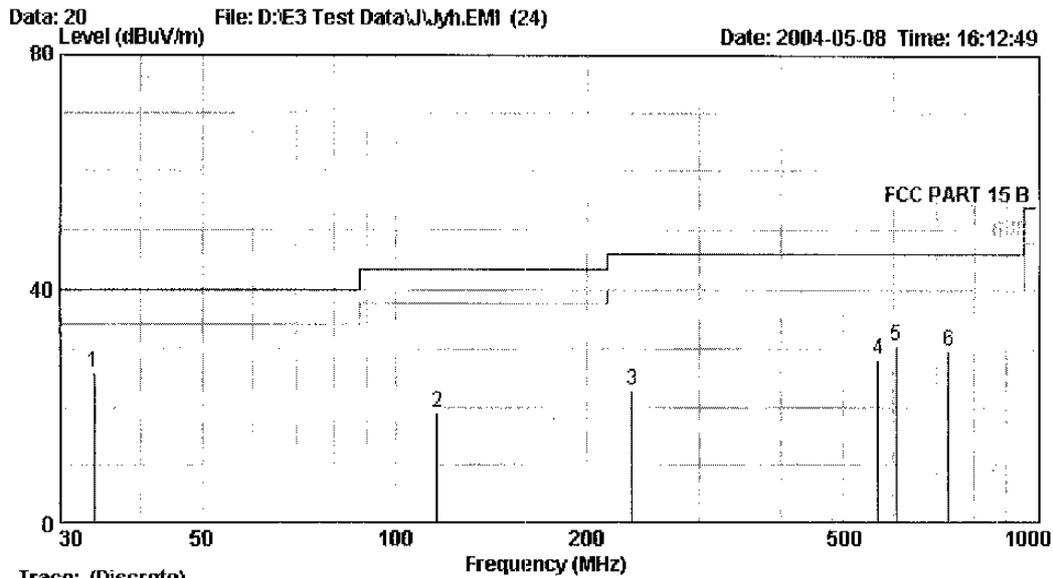
Trace: (Discrete)

Site :10m Chamber
 Condition :FCC PART 15 B 3m 2768 FACTOR(3X) HORIZONTAL
 EUT :Power Over Ethernet
 M/N :POR(5V/1.5A)
 Power :Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode :Running
 Test engineer:Seco
 Memo :Temp: 24' Humi: 54%
 :AntPos: 2.1m TablePos: 56'

	Freq	Limit		Read Level	Over Limit	CableAntenna		Remark
		Line	Level			Loss	Factor	
	MHz	dBuV/m	dBuV/m	dBuV	dB	dB	dB/m	
1	78.58	40.00	24.86	15.08	-15.14	1.54	8.24	
2	169.68	43.50	24.81	11.98	-18.69	2.49	10.34	
3	308.39	46.00	25.70	9.01	-20.30	3.24	13.45	
4	568.35	46.00	27.69	3.51	-18.31	4.96	19.22	
5	625.58	46.00	31.06	6.42	-14.94	5.09	19.55	
6	799.21	46.00	32.53	5.03	-13.47	6.13	21.37	



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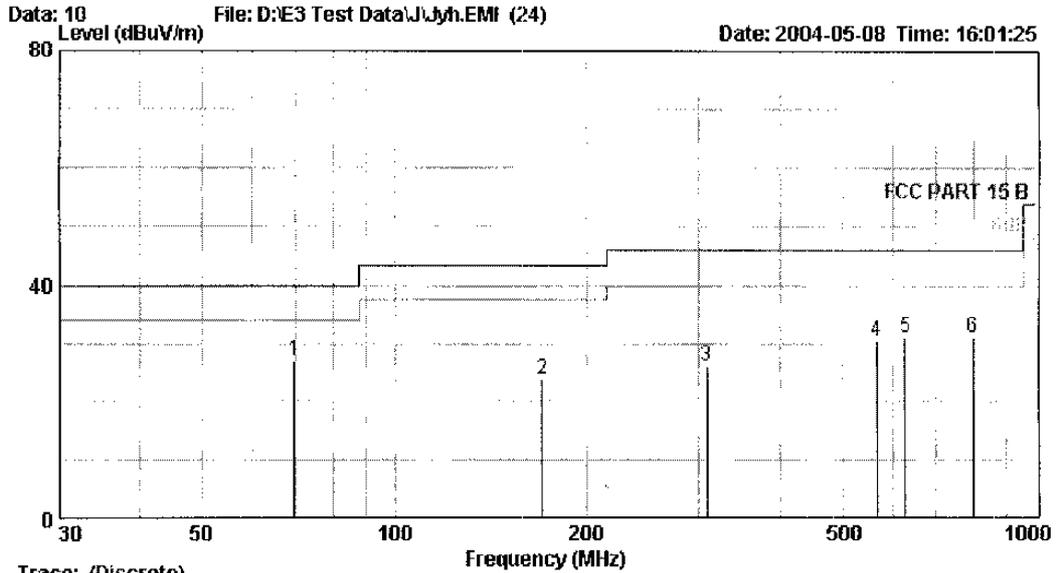
Trace: (Discrete)

Site : 10m Chamber
Condition : FCC PART 15 B 3m 2768 FACTOR(3M) VERTICAL
EUT : Power Over Ethernet
M/N : POE (5V/1.5A)
Power : Adaptor AC Input 120V/60Hz Output DC 24V
Test Mode : Running
Test engineer: Seco
Memo : Temp: 24' Humi: 54%
: AntPos: 1.1m TablePos: 314'

	Limit	Read	Over	Cable	Antenna	Remark
Freq	Line	Level	Level	Loss	Factor	
MHz	dBuV/m	dBuV/m	dBuV	dB	dB	dB/m
1	33.88	40.00	25.92	11.10	-14.08	1.23 13.59
2	116.33	43.50	18.96	6.62	-24.54	1.74 10.60
3	235.64	46.00	22.92	8.25	-23.08	3.00 11.67
4	567.38	46.00	28.04	3.48	-17.96	5.01 19.55
5	604.24	46.00	30.36	5.82	-15.64	5.09 19.45
6	731.31	46.00	29.65	2.72	-16.35	5.76 21.17



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Trace: (Discrete)

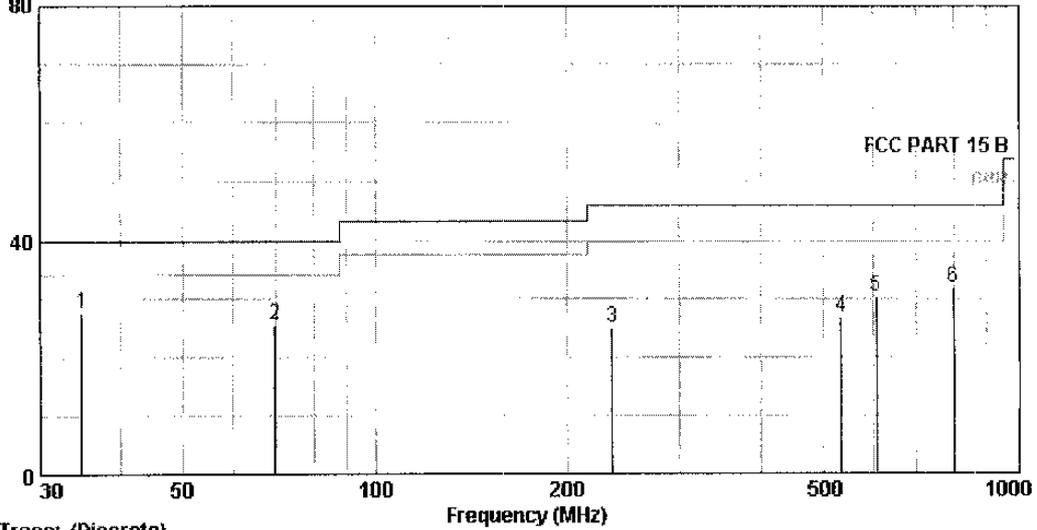
Site : 10m Chamber
 Condition : FCC PART 15 B 3m 2768 FACTOR(3M) HORIZONTAL
 EUT : Power Over Ethernet
 M/N : POE(7.5V/1.5A)
 Power : Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode : Running
 Test engineer: Seco
 Memo : Temp: 24' Humi: 54%
 : AntPos: 1.9m TablePos: 336'

	Freq	Limit		Read	Over	CableAntenna		Remark
		Line	Level			Level	Loss	
	MHz	dBuV/m	dBuV/m	dBuV	dB	dB	dB/m	
1	69.77	40.00	26.94	18.57	-13.06	1.59	6.78	
2	170.65	43.50	23.76	10.96	-19.74	2.51	10.29	
3	308.39	46.00	25.95	9.26	-20.05	3.24	13.45	
4	565.44	46.00	30.55	6.29	-15.45	4.96	19.30	
5	625.58	46.00	31.06	6.42	-14.94	5.09	19.55	
6	799.21	46.00	31.15	3.65	-14.85	6.13	21.37	



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Data: 12 File: D:\E3 Test Data\J\Jyh.EMI (24) Date: 2004-05-08 Time: 16:04:53



Trace: (Discrete)

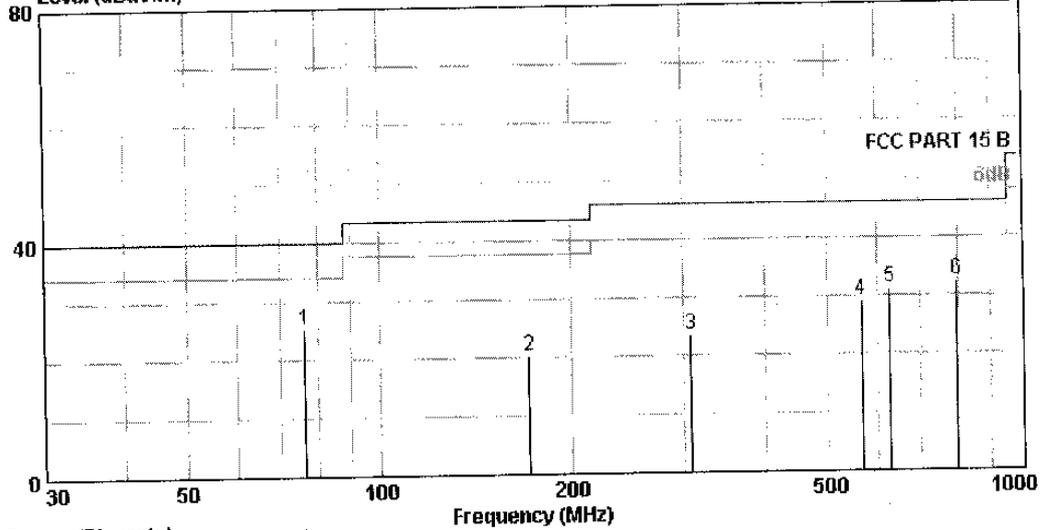
Site : 10m Chamber
 Condition : FCC PART 15 B 3m 2768 FACTOR(3M) VERTICAL
 RUT : Power Over Ethernet
 M/N : POE(7.5V/1.5A)
 Power : Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode : Running
 Test engineer: Seco
 Memo : Temp: 24' Humi: 54%
 : AntPos: 1.2m TablePos: 326'

	Freq	Limit		Read		Over		CableAntenna		Remark
		Line	Level	Level	Limit	Limit	Loss	Factor		
	MHz	dBuV/m	dBuV/m	dBuV	dB	dB	dB	dB/m		
1	34.85	40.00	27.52	13.18	-12.48	1.13	13.20			
2	69.77	40.00	25.55	15.75	-14.45	1.59	8.22			
3	235.64	46.00	24.95	10.28	-21.05	3.00	11.67			
4	532.46	46.00	26.75	4.03	-19.25	4.65	18.07			
5	604.24	46.00	30.20	5.66	-15.80	5.09	19.45			
6	799.21	46.00	31.59	3.86	-14.41	6.13	21.60			



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Data: 16 File: D:\E3 Test Data\J.Jyh.EMI (24) Date: 2004-05-08 Time: 16:10:10
Level (dBuV/m)



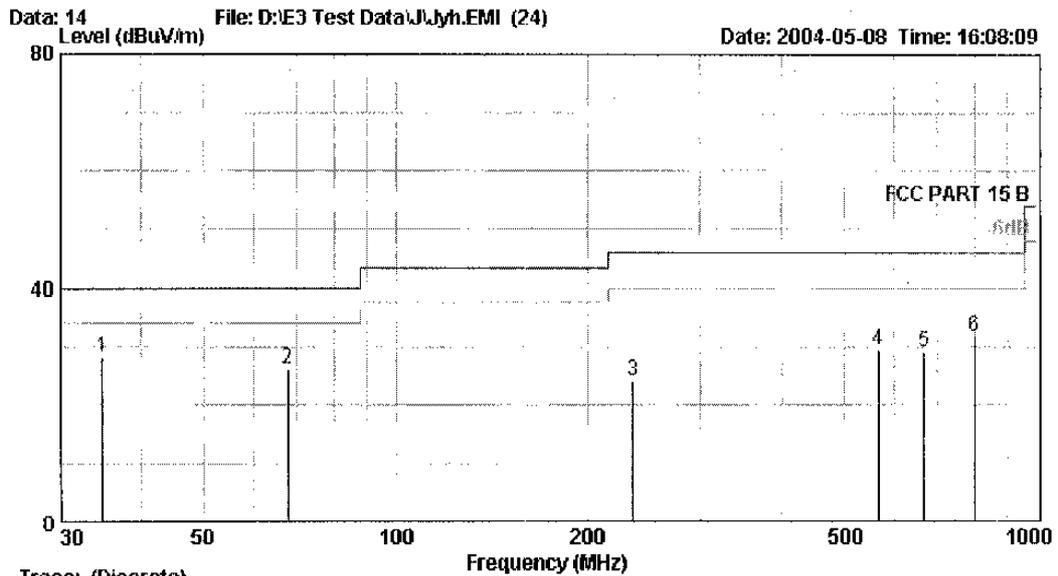
Trace: (Discrete)

Site : 10m Chamber
Condition : FCC PART 15 B 3m 2768 FACTOR(3M) HORIZONTAL
EUT : Power Over Ethernet
M/N : POR(12V/1A)
Power : Adaptor AC Input 120V/60Hz Output DC 24V
Test Mode : Running
Test engineer: Seco
Memo : Temp: 24' Humi: 54%
: AntPos: 1.4m TablePos: 42'

	Freq MHz	Limit		Read Level dBuV	Over Limit dB	CableAntenna	
		Line dBuV/m	Level dBuV/m			Loss dB	Factor dB/m
1	76.56	40.00	25.19	15.65	-14.81	1.56	7.99
2	171.62	43.50	20.13	7.36	-23.37	2.54	10.23
3	307.42	46.00	23.55	6.87	-22.45	3.23	13.44
4	565.44	46.00	29.11	4.85	-16.89	4.96	19.30
5	625.58	46.00	31.06	6.42	-14.94	5.09	19.55
6	797.27	46.00	32.23	4.77	-13.77	6.07	21.39



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Trace: (Discrete)

Site :10m Chamber
 Condition :FCC PART 15 B 3m 2768 FACTOR(3M) VERTICAL
 EUT :Power Over Ethernet
 M/N :POE (12V/1A)
 Power :Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode :Running
 Test engineer:Seco
 Memo :Temp: 24' Humi: 54%
 :AntPos: 1.3m TablePos: 66'

	Freq	Limit		Read Level	Over Limit	CableAntenna		Remark
		Line	Level			Loss	Factor	
	MHz	dBuV/m	dBuV/m	dBuV	dB	dB	dB/m	
1	34.85	40.00	28.03	13.70	-11.97	1.13	13.20	
2	67.83	40.00	25.98	16.17	-14.02	1.56	8.25	
3	235.64	46.00	23.95	9.28	-22.05	3.00	11.67	
4	565.44	46.00	29.20	4.71	-16.80	4.96	19.53	
5	665.35	46.00	29.02	4.03	-16.98	5.20	19.79	
6	799.21	46.00	31.74	4.01	-14.26	6.13	21.60	

4. DEVIATION TO TEST SPECIFICATIONS

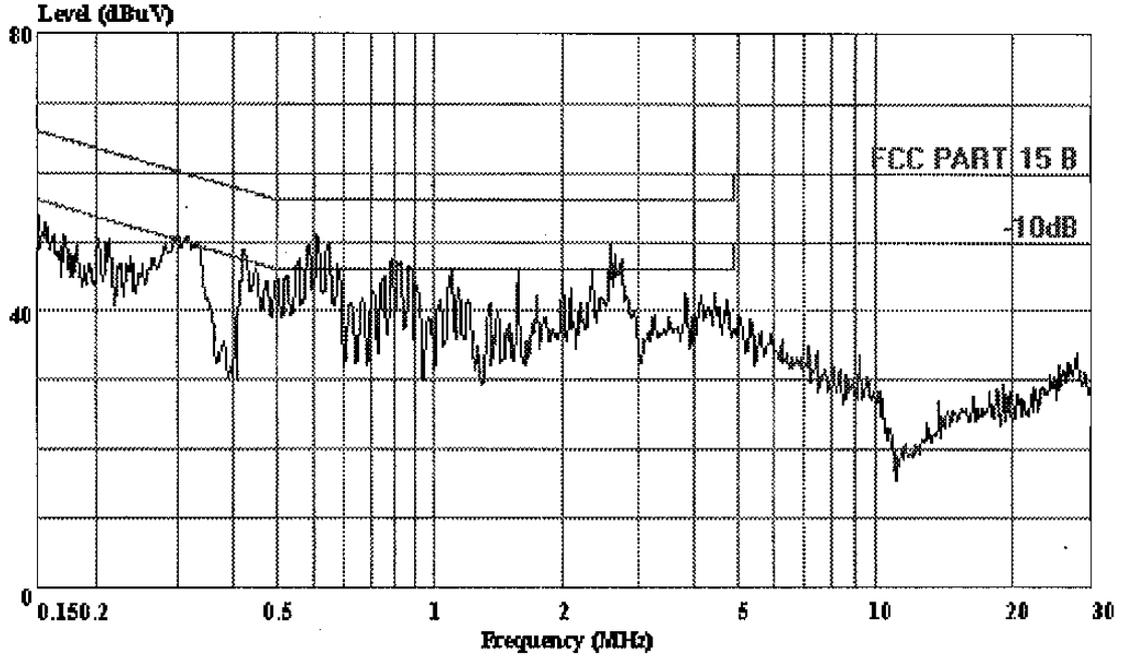
(None.)

APPENDIX I

AUDIX[®]
 AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind Park
 Tel:0755-26639496
 Fax:26632877

Data#: 12 File#: Jyh.EMI Date: 2004-05-18 Time: 19:20:51



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

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Ref Trace:

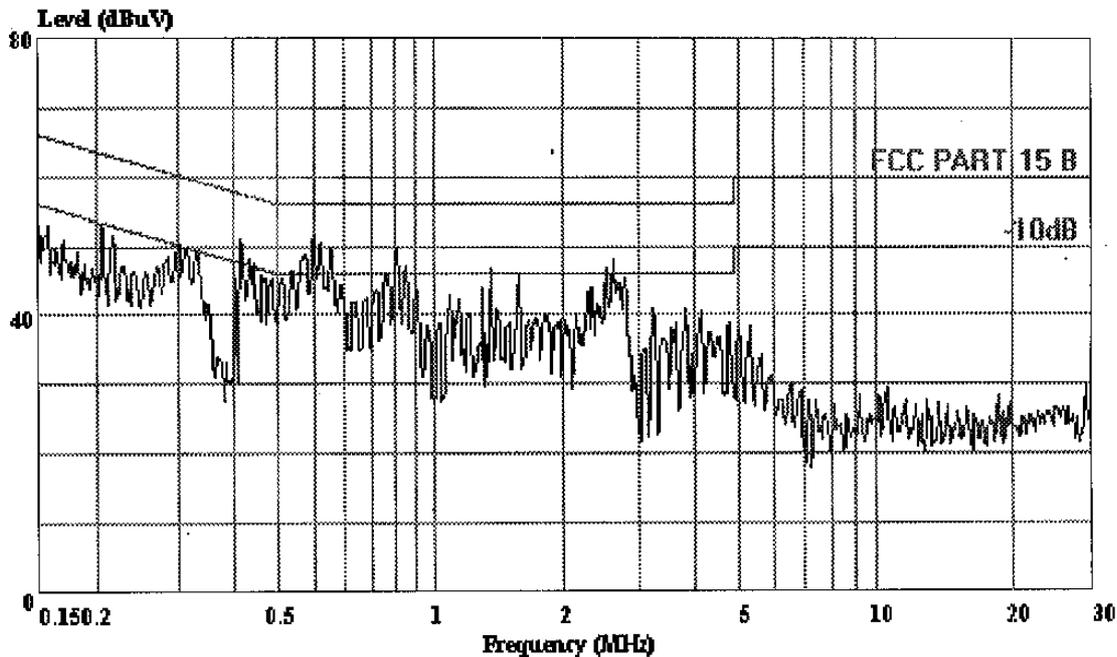
Condition: FCC PART 15 B VA (KNW-407)
 EUT : Power Over Ethernet
 M/N : POE (5V/1.5A)
 OP Condition : Running
 Test Spec : Adaptor AC Input 120V/60Hz OutPut DC 24V
 Test Engineer: Seco
 Comment : Temp:24' Humi:56%



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Data#: 11 File#: Jyh.EMI Date: 2004-05-18 Time: 19:15:51



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

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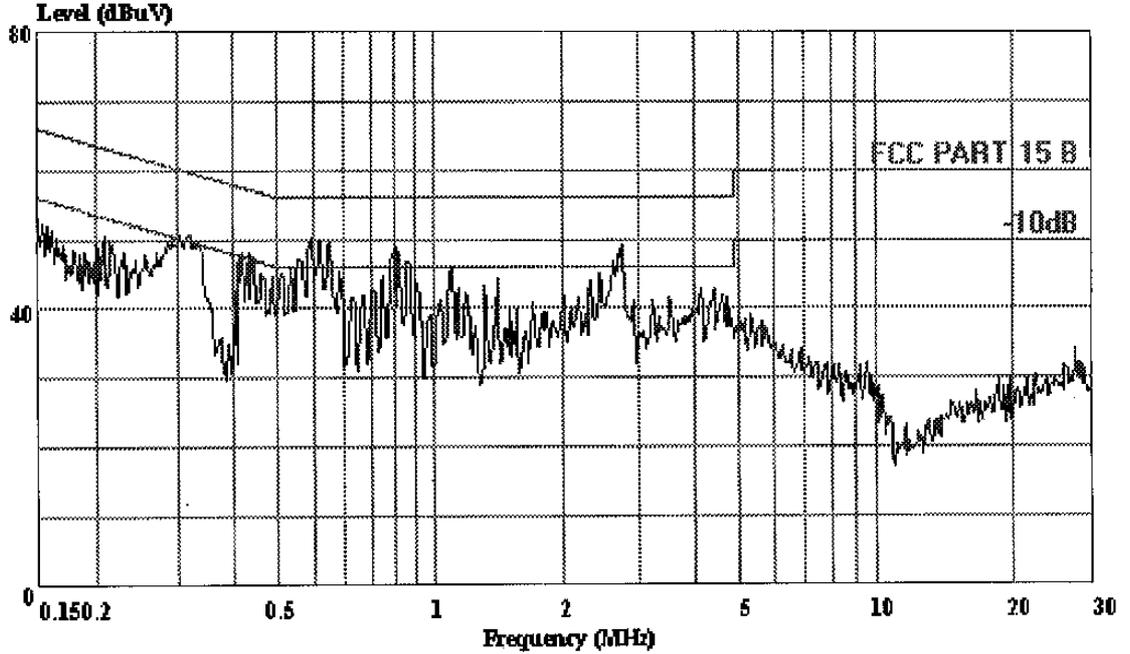
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Condition: FCC PART 15 B VB (KNW-407)
 EUT : Power Over Ethernet
 M/N : POE (5V/1.5A)
 OP Condition : Running
 Test Spec : Adaptor AC Input 120V/60Hz OutPut DC 24V
 Test Engineer: Seco
 Comment : Temp:24' Humi:56%



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Data#: 13 File#: Jyh.EMI Date: 2004-05-18 Time: 19:25:42



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)
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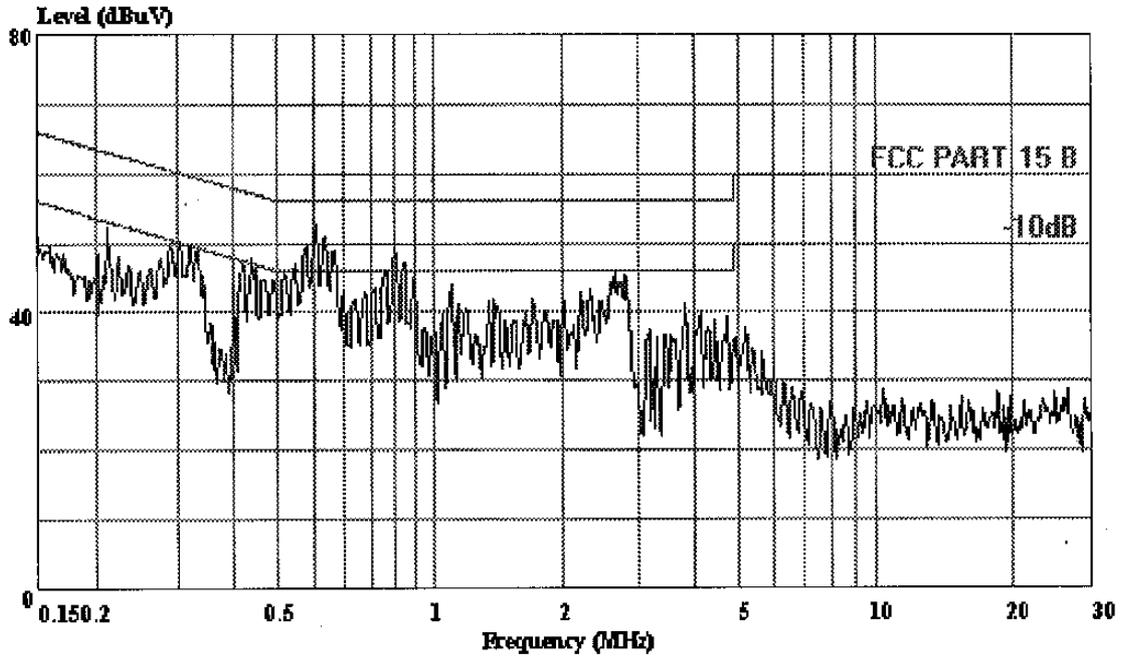
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Condition: FCC PART 15 B VA (KNW-407)
 EUT : Power Over Ethernet
 M/N : POE (7.5V/1.5A)
 OP Condition : Running
 Test Spec : Adaptor AC Input 120V/60Hz OutPut DC 24V
 Test Engineer: Seco
 Comment : Temp:24' Humi:56%

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Data#: 14 File#: Jyh.EMI Date: 2004-05-18 Time: 19:32:15



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

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Ref Trace:

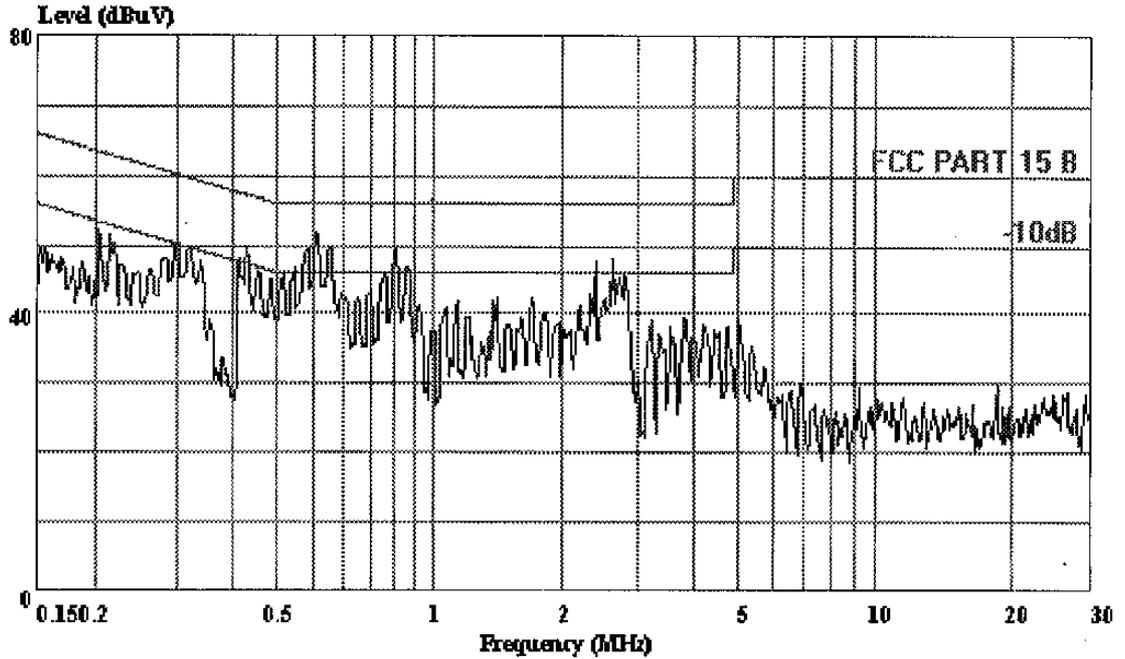
Condition: FCC PART 15 B VB (KNW-407)
 EUT : Power Over Ethernet
 M/N : POE(7.5V/1.5A)
 OP Condition : Running
 Test Spec : Adaptor AC Input 120V/60Hz OutPut DC 24V
 Test Engineer: Seco
 Comment : Temp:24' Humi:56%

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Data#: 10 File#: Jyh.EMI

Date: 2004-05-18 Time: 19:08:52



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

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Ref Trace:

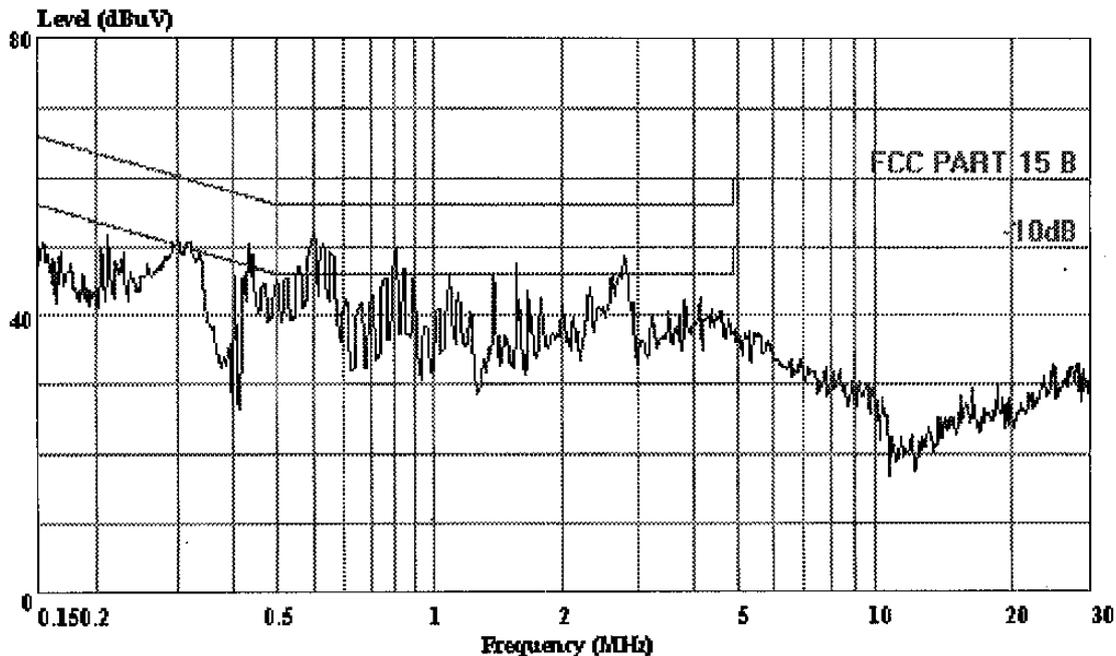
Condition: FCC PART 15 B VA (KNW-407)
 EUT : Power Over Ethernet
 M/N : POE (12V/1A)
 OP Condition : Running
 Test Spec : Adaptor AC Input 120V/60Hz OutPut DC 24V
 Test Engineer: Seco
 Comment : Temp:24' Humi:56%



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Data#: 9 File#: Jyh.EMI Date: 2004-05-18 Time: 19:01:54



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

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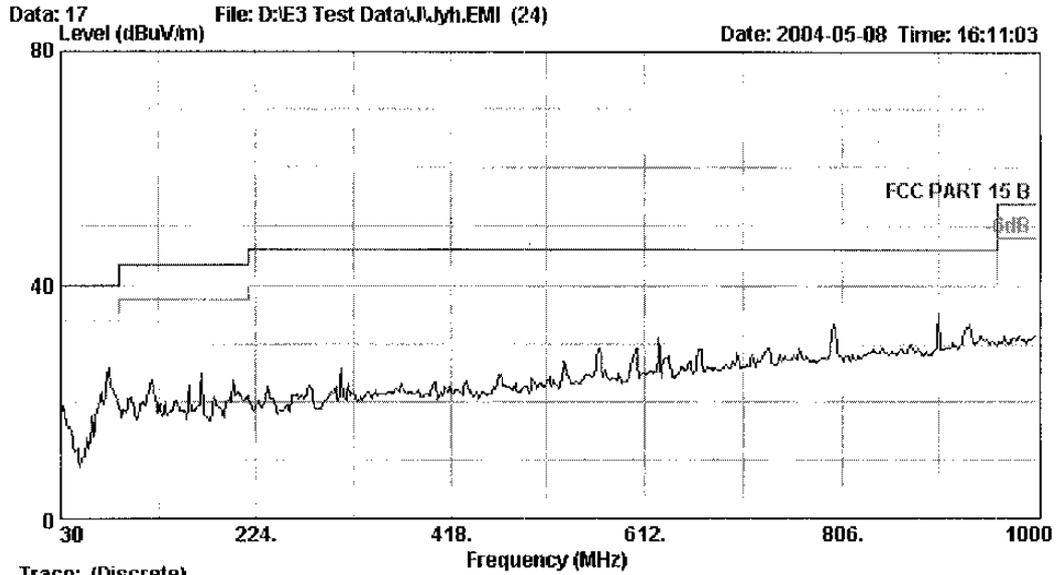
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Condition: FCC PART 15 B VB (KNW-407)
 EUT : Power Over Ethernet
 M/N : POE (12V/1A)
 OP Condition : Running
 Test Spec : Adaptor AC Input 120V/60Hz OutPut DC 24V
 Test Engineer: Seco
 Comment : Temp:24' Humi:56%

APPENDIX II



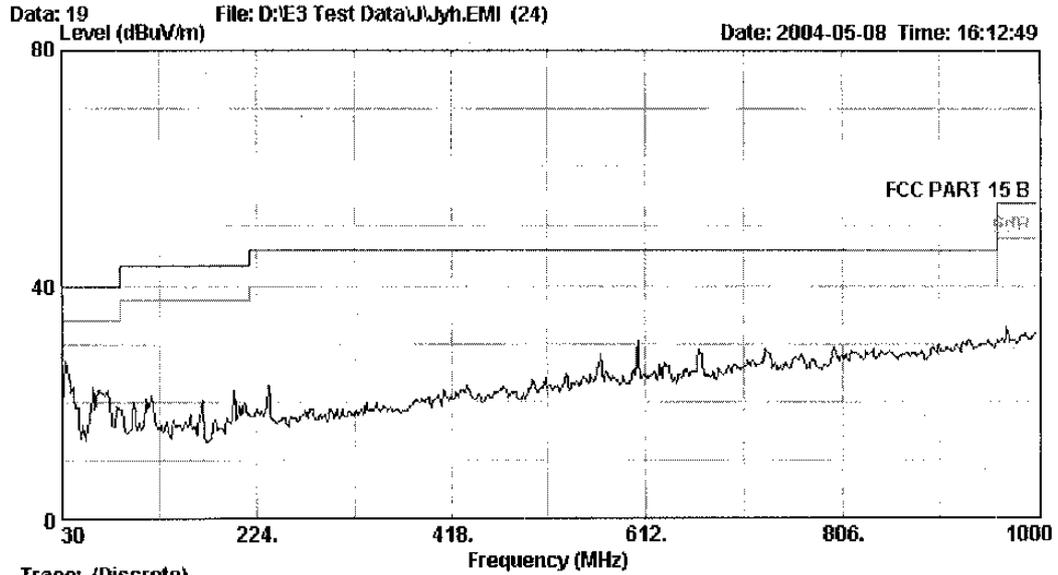
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 Fax:+86-755-26632877
 Postcode:518057



Site :10m Chamber
 Condition :ECC PART 15 B 3m 2768 FACTOR(3K) HORIZONTAL
 EUT :Power Over Ethernet
 M/N :POE (5V/1.5A)
 Power :Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode :Running
 Test engineer:Seco
 Memo :Temp: 24 Humi: 54%



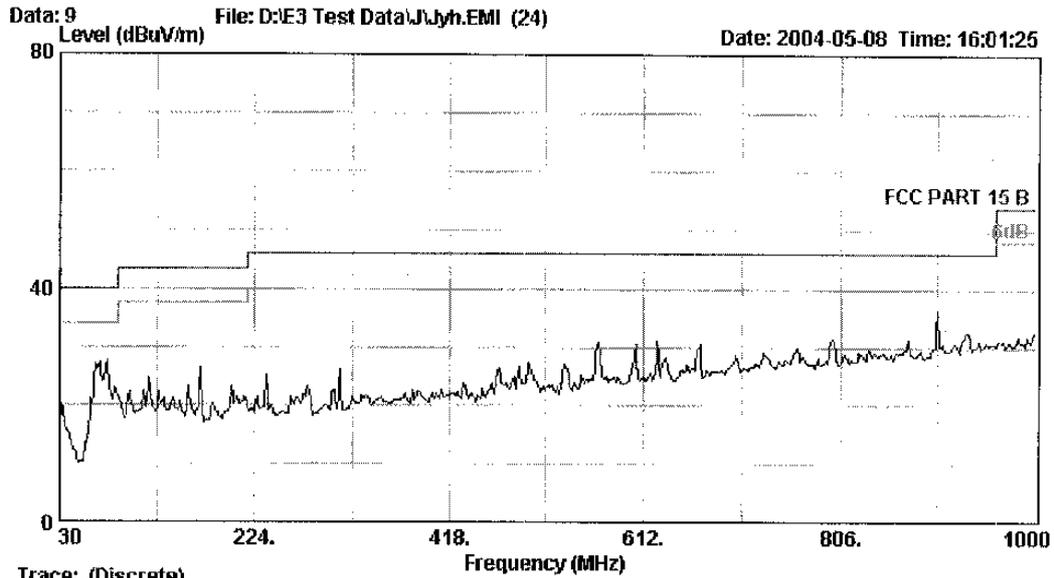
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 Fax:+86-755-26632877
 Postcode:518057



Site : 10m Chamber
 Condition : FCC PART 15 B 3m 2768 FACTOR(3M) VERTICAL
 EUT : Power Over Ethernet
 M/N : POE (5V/1.5A)
 Power : Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode : Running
 Test engineer: Seco
 Memo : Temp: 24' Humi: 54%



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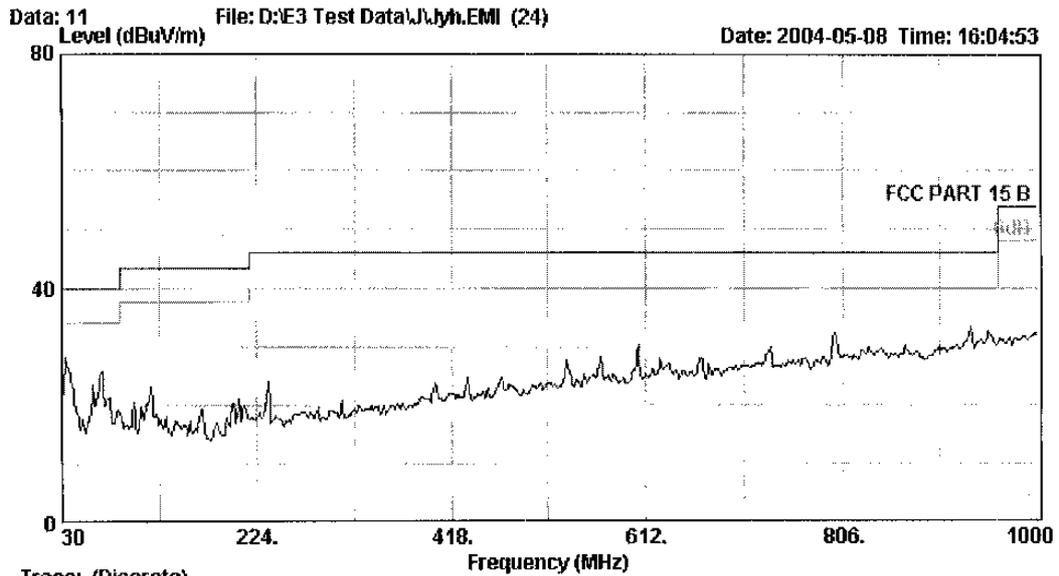


Trace: (Discrete)

Site : 10m Chamber
 Condition : FCC PART 15 B 3m 2768 FACTOR(3K) HORIZONTAL
 RUT : Power Over Ethernet
 M/N : POE (7.5V/1.5A)
 Power : Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode : Running
 Test engineer: Seco
 Memo : Temp: 24 Humi: 54%



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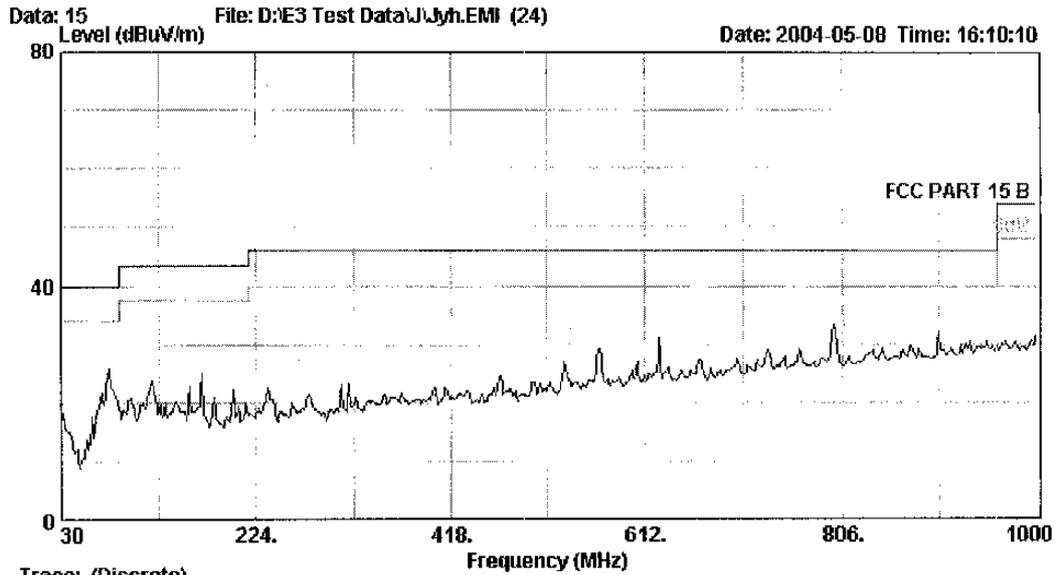


Trace: (Discrete)

Site : 10m Chamber
 Condition : FCC PART 15 B 3m 2768 FACTOR(3M) VERTICAL
 EUT : Power Over Ethernet
 M/N : POE (7.5W/1.5A)
 Power : Adaptor AC Input 120V/60Hz Output DC 24V
 Test Mode : Running
 Test engineer: Seco
 Memo : Temp: 24 Humi: 54%



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Trace: (Discrete)

Site : 10m Chamber

Condition : FCC PART 15 B 3m 2768 FACTOR(3M) HORIZONTAL

EUT : Power Over Ethernet

M/N : POK(12V/1A)

Power : Adaptor AC Input 120V/60Hz Output DC 24V

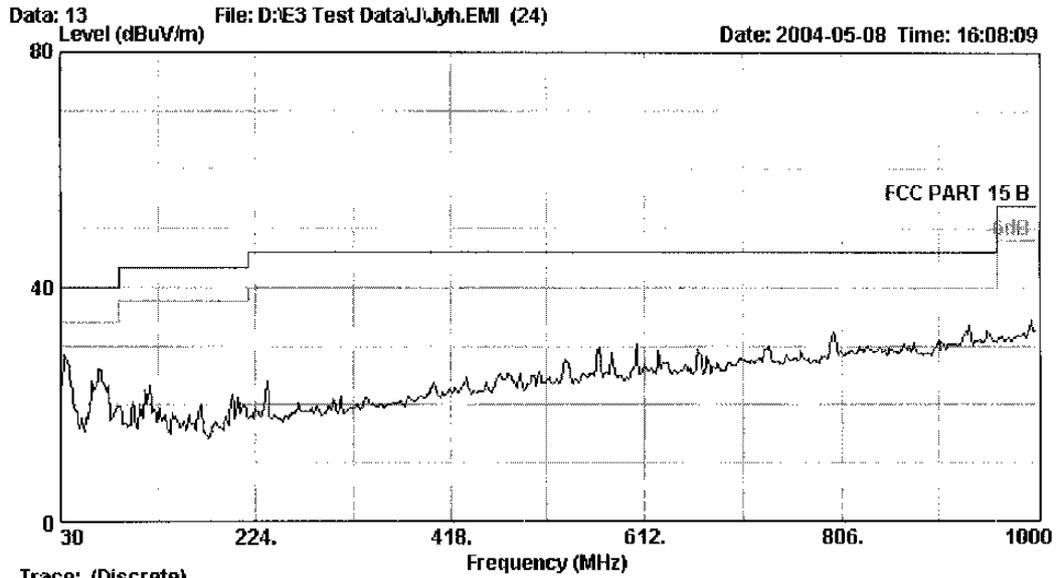
Test Mode : Running

Test engineer: Seco

Memo : Temp: 24' Humi: 54%



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Trace: (Discrete)

Site : 10m Chamber

Condition : FCC PART 15 B 3m 2768 FACTOR(3M) VERTICAL

RUT : Power Over Ethernet

M/N : POE (12V/1A)

Power : Adaptor AC Input 120V/60Hz Output DC 24V

Test Mode : Running

Test engineer: Seco

Memo : Temp: 24 Humi: 54%