





FCC PART 15B CLASS B TEST AND MEASUREMENT REPORT

For

Yealink (Xiamen) Network Technology Co., LTD

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Model: SIP-T26P

Report Type: Original Report		Product Type: IP Phone	
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TABLE OF CONTENTS

1	GENERAL INFORMATION	5
1.1	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	5
1.2	MECHANICAL DESCRIPTION OF EUT	5
1.3	OBJECTIVE.....	5
1.4	RELATED SUBMITTAL(S)/GRANT(S).....	5
1.5	TEST METHODOLOGY	5
1.6	MEASUREMENT UNCERTAINTY.....	6
1.7	TEST FACILITY.....	6
2	SYSTEM TEST CONFIGURATION	8
2.1	JUSTIFICATION.....	8
2.2	EUT EXERCISE SOFTWARE.....	8
2.3	LOCAL SUPPORT EQUIPMENT.....	8
2.4	EUT INTERNAL CONFIGURATION DETAILS.....	8
2.5	EXTERNAL I/O CABLING LIST AND DETAILS	8
2.6	EUT ADAPTER INFO	8
3	SUMMARY OF TEST RESULTS.....	9
4	FCC §15.107 – AC LINE CONDUCTED EMISSIONS	10
4.1	APPLICABLE STANDARDS	10
4.2	EUT SETUP.....	10
4.3	TEST PROCEDURE	10
4.4	TEST SETUP BLOCK DIAGRAM.....	11
4.5	CORRECTED AMPLITUDE & MARGIN CALCULATION	13
4.6	TEST EQUIPMENT LIST AND DETAILS	13
4.7	TEST ENVIRONMENTAL CONDITIONS	13
4.8	SUMMARY OF TEST RESULTS.....	14
4.9	CONDUCTED EMISSION TEST PLOTS AND DATA	15
5	FCC § 15.109 – RADIATED EMISSIONS	19
5.1	APPLICABLE STANDARD	19
5.2	TEST SETUP	19
5.3	TEST PROCEDURE	19
5.4	TEST SETUP BLOCK DIAGRAM.....	20
5.5	CORRECTED AMPLITUDE & MARGIN CALCULATION	22
5.6	TEST EQUIPMENT LIST AND DETAILS	22
5.7	TEST ENVIRONMENTAL CONDITIONS	22
5.8	SUMMARY OF TEST RESULTS.....	23
5.9	RADIATED SPURIOUS EMISSIONS TEST PLOTS AND DATA	24
6	EXHIBIT A – FCC PRODUCT LABELING REQUIREMENTS	26
6.1	LABEL INFORMATION	26
6.2	SUGGESTED LABEL LOCATION ON EUT.....	27
7	EXHIBIT B- TEST SETUP PHOTOS	28
7.1	CONDUCTED EMISSION- AC LINE-FRONT VIEW	28
7.2	CONDUCTED EMISSION- AC LINE-SIDE VIEW	28
7.3	CONDUCTED EMISSION- POE LINE-FRONT VIEW	29
7.4	CONDUCTED EMISSION- POE LINE-SIDE VIEW	29
7.5	RADIATED EMISSION- AC LINE - FRONT VIEW	30
7.6	RADIATED EMISSION- AC LINE - REAR VIEW.....	30
7.7	RADIATED EMISSION- POE LINE - FRONT VIEW.....	31
7.8	RADIATED EMISSION- POE LINE - REAR VIEW.....	31
8	EXHIBIT C- EUT PHOTOS.....	32
8.1	EUT- TOP VIEW	32
8.2	EUT- BOTTOM VIEW	32

8.3 EUT – SIDE VIEW33

8.4 EUT – SIDE VIEW33

8.5 EUT – SIDE VIEW34

8.6 EUT – COVER OFF VIEW.....34

8.7 EUT LCD – TOP VIEW35

8.8 EUT LCD – BOTTOM VIEW.....35

8.9 EUT MAIN PCB – TOP VIEW.....36

8.10 EUT MAIN PCB – BOTTOM VIEW36

8.11 EUT – ADAPTER PHOTO 137

8.12 EUT – ADAPTER PHOTO 237

8.13 EUT – ADAPTER PHOTO 338

9 DECLARATION OF SIMILARITY.....39

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1307304	Original Test Report	2013-10-23

1 General Information

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of the *Yealink (Xiamen) Network Technology Co., LTD* and their product model *SIP-T26P*, which will henceforth be referred to as the EUT (Equipment under Test). The EUT is an IP Phone.

1.2 Mechanical Description of EUT

The EUT measures 27cm (L) x 20cm (W) x 6cm (H) and weighs approximately 940.5g.

The data gathered are from a production sample provided by the manufacturer, serial number: R1307304-1, assigned by BACL.

1.3 Objective

This report is prepared on behalf of *Yealink (Xiamen) Network Technology Co., LTD* in accordance with Part 15, Subparts A and B of the Federal Communications Commission rules.

The objective is to determine compliance with Part 15 of the FCC Rules.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All tests were performed at Bay Area Compliance Laboratories Corp.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR16-4-2:2007, The Treatment of Uncertainty in EMC Measurements, the values ranging from ± 2.0 Db for Conducted Emissions tests and ± 4.0 Db for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

1.7 Test Facility

Bay area compliance Laboratories Corp. (BACL) is:

1- An independent Commercial Test Laboratory accredited to **ISO 17025:2005** by **A2LA**, in the fields of: Electromagnetic Compatibility & Telecommunications covering Emissions, Immunity, Radio, RF Exposure, Safety and Telecom. This includes NEBS (Network Equipment Building System), Wireless RF, Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Medical Electrical Equipment; Industrial, Commercial, and Medical Test Equipment; Professional Audio and Video Equipment; Electronic (Digital) Products; Industrial and Scientific Instruments; Cabled Distribution Systems and Energy Efficiency Lighting.

2- An ENERGY STAR Recognized Laboratory, for the LM80 Testing, a wide variety of Luminaires and Computers.

3- A NIST Designated Phase-I and Phase-II CAB including: ACMA (Australian Communication and Media Authority), BSMI (Bureau of Standards, Metrology and Inspection of Taiwan), IDA (Infocomm Development Authority of Singapore), IC (Industry Canada), Korea (Ministry of Communications Radio Research Laboratory), NCC (Formerly DGT; Directorate General of Telecommunication of Chinese Taipei) OFTA (Office of the Telecommunications Authority of Hong Kong), Vietnam, VCCI - Voluntary Control Council for Interference of Japan and a designated EU CAB (Conformity Assessment Body) (Notified Body) for the EMC and R&TTE Directives.

4- A Product Certification Body accredited to **ISO Guide 65:1996** by **A2LA** to certify:

- 1- Unlicensed, Licensed radio frequency devices and Telephone Terminal Equipment for the FCC. Scope A1, A2, A3, A4, B1, B2, B3, B4 & C.
2. Radio Standards Specifications (RSS) in the Category I Equipment Standards List and All Broadcasting Technical Standards (BETS) in Category I Equipment Standards List for Industry Canada.
3. Radio Communication Equipment for Singapore.
4. Radio Equipment Specifications, GMDSS Marine Radio Equipment Specifications, and Fixed Network Equipment Specifications for Hong Kong.
5. Japan MIC Telecommunication Business Law (A1, A2) and Radio Law (B1, B2 and B3).
6. Audio/Video, Battery Charging Systems, Computers, Displays, Enterprise Servers, Imaging Equipment, Set-Top Boxes, Telephony, Televisions, Ceiling Fans, CFLs (Including GU24s), Decorative Light Strings, Integral LED Lamps, Luminaires, Residential Ventilating Fans.

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2009, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for Laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at <http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b>

2 System Test Configuration

2.1 Justification

The EUT was configured in accordance to ANSI C63.4-2009 Standards.

The EUT was tested in a testing mode to represent the worst case results during the final qualification test.

2.2 EUT Exercise Software

N/A

2.3 Local Support Equipment

Manufacturer	Description	Model	Serial Number
NETGEAR	POE	FS108P	-

2.4 EUT Internal Configuration Details

Manufacturer	Description	Model	Serial Number
Yealink	Main Board	SIP-T26M	-

2.5 External I/O Cabling List and Details

Cable Descriptions	Length (m)	From	To
RJ 45 Cable	<3	EUT	Ethernet
RJ 45 Cable	<3	EUT	Network
Power Cable	<3	EUT	AC/DC Adapter
Power Cable	<3	POE	AC/DC Adapter

2.6 EUT Adapter Info

Manufacturer	Description	Model	Serial Number
Yealink	AC Adapter	NSA6EU-050120	-

3 Summary of Test Results

FCC & IC Rules	Descriptions of Test	Result(s)
FCC §15.107	Conducted Emissions	Compliant
FCC §15.109	Radiated Spurious Emissions	Compliant

4 FCC §15.107 – AC Line Conducted Emissions

4.1 Applicable Standards

As per FCC §15.107: Conducted Limits

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Table 1- Limits for conducted disturbance at the mains ports of class B ITE

Frequency range (MHz)	Limits dB (μ V/)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

4.2 EUT Setup

The conducted emissions tests were performed in the 5-meter test chamber, using the setup in accordance with ANSI 63.4 measurement procedures. The specifications used were in accordance with FCC Part 15B Class B limits.

The spacing between the peripherals was 10 cm.

The external I/O cables were draped along the test table and bundled as required.

The adapter of the EUT was connected to a 120 V, 60 Hz AC line power source.

The adapter of the POE was connected to a 120 V, 60 Hz AC line power source.

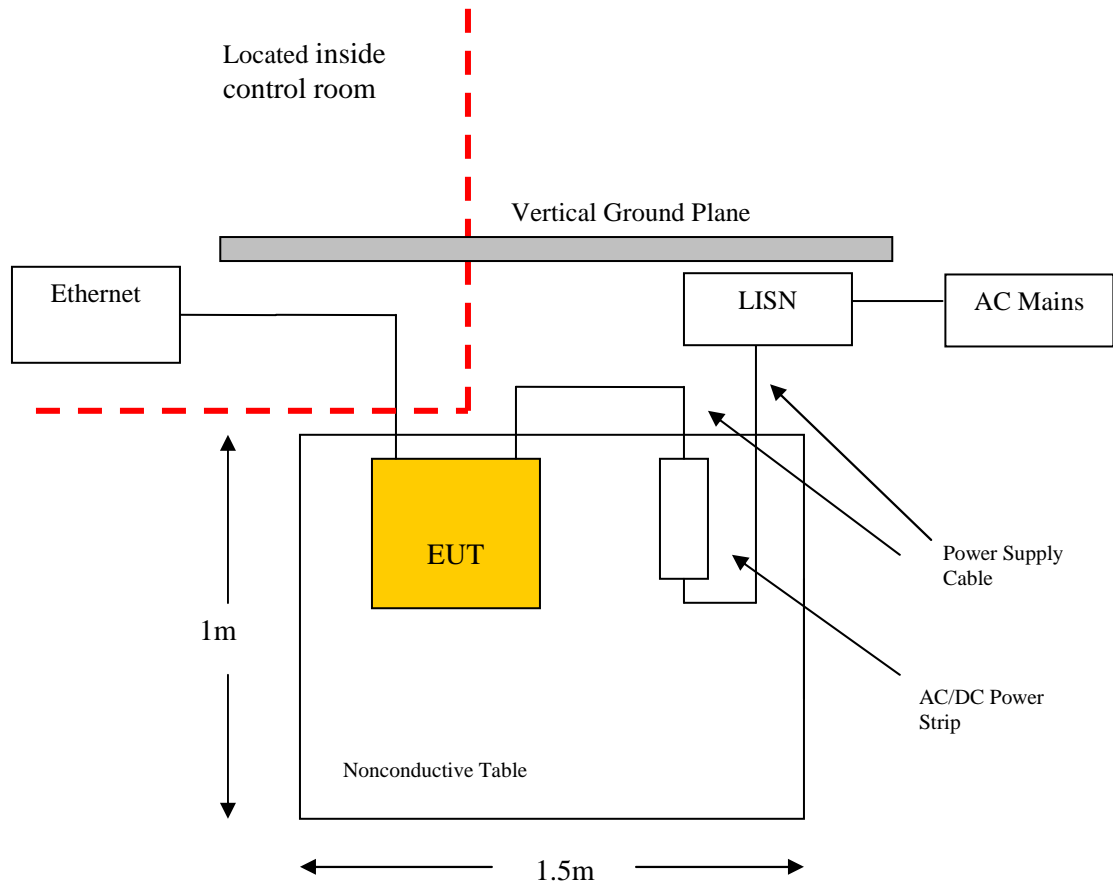
4.3 Test Procedure

Using the procedure in ANSI C63.4-2009 §7.2.3, determine the mode of operation and cable positions of the EUT system that produce the emission with the highest amplitude relative to the limit. This arrangement shall be used in final ac power-line conducted emission measurement of the EUT.

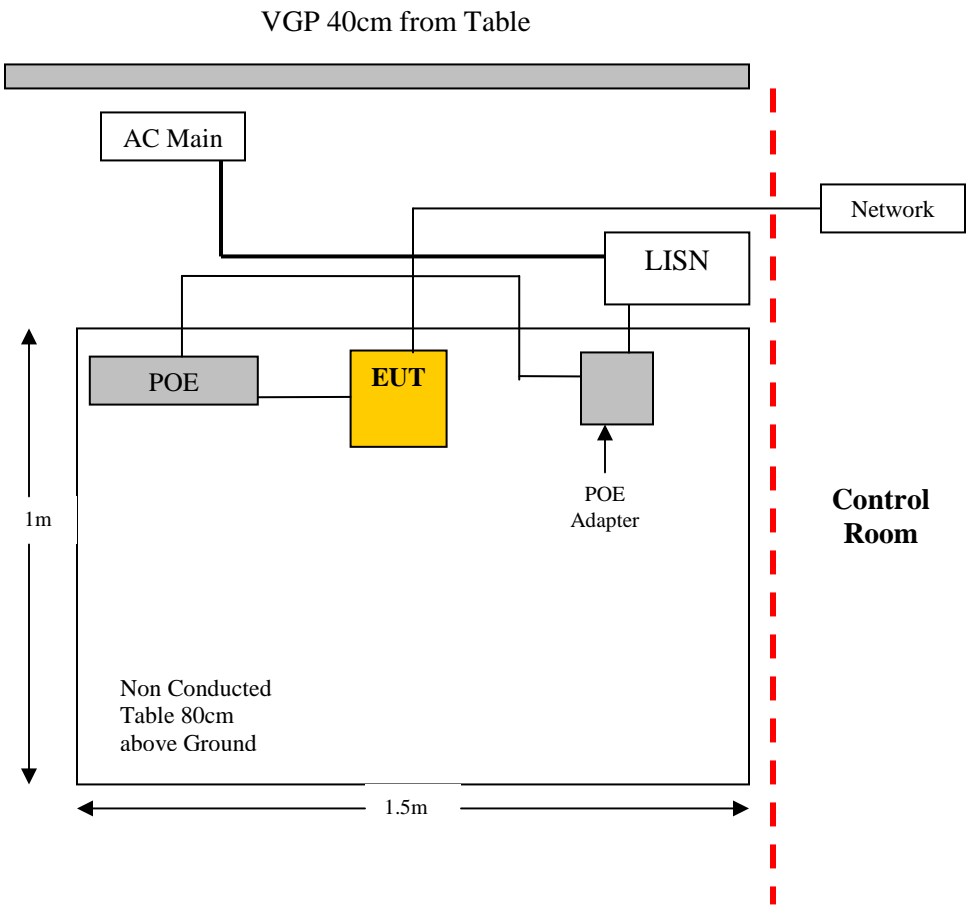
Using the mode of operation and arrangement of the EUT determined in ANSI C63.4-2009 §11.5.1, follow the procedure in ANSI C63.4-2009 §7.2.4 to perform final ac power-line conducted emission measurements. Measure significant emissions, select and record the six highest emissions relative to the limit on each of the power cords, measuring all of the current-carrying conductors of each of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency.

4.4 Test Setup Block Diagram

AC Line



POE Line



4.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Cable Loss (CL) and the Attenuator Factor (Atten) to indicated Amplitude (Ai) reading. The basic equation is as follows:

$$CA = Ai + CL + Atten$$

For example, a corrected amplitude of 46 dBuV = Indicated Reading (32.5 dBuV) + Cable Loss (3.5 dB) + Attenuator (10 dB)

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corrected Amplitude} - \text{Class B Limit}$$

4.6 Test Equipment List and Details

Manufacturers	Descriptions	Models	Serial Numbers	Calibration Dates	Calibration Interval
Rohde & Schwarz	EMI Test Receiver	ESCI 1166.5950K03	100337	2013-03-28	1 year
Solar Electronics	LISN	9252-R-24-BNC	511205	2013-06-25	1 year
TTE	Filter, High Pass	H9962-150K-50-21378	M1195	2013-05-30	1 year

Statement of Traceability: BACL Corp. attests that all calibrations have been performed according to A2LA requirements, traceable to the NIST.

4.7 Test Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	61 %
ATM Pressure:	101.56 kPa

Testing was performed by Jerry Wang on 2013-08-12 in 5 m chamber 3.

4.8 Summary of Test Results

According to the recorded data, the EUT complied with FCC Part 15B, Class B limits, and had the worst margin reading of:

AC Line

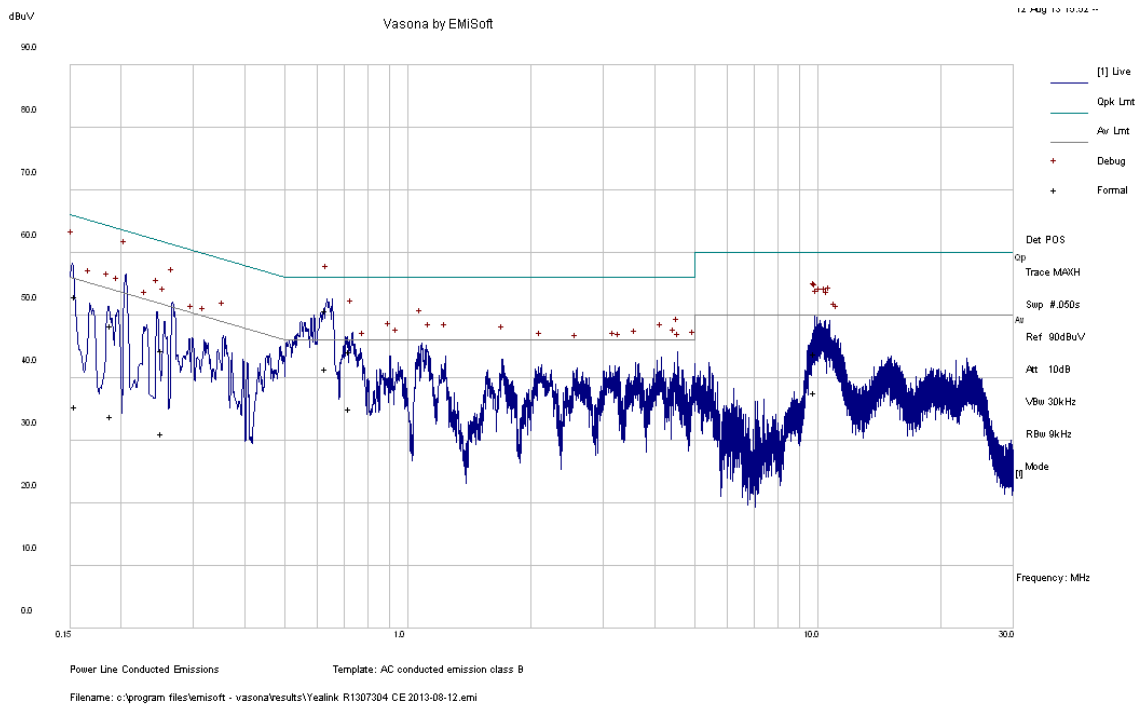
Mode: 120 V/ 60 Hz			
Margin (dB)	Frequency (MHz)	Conductor (Line/Neutral)	Range (MHz)
-1.49	0.641367	Neutral	0.15 MHz to 30 MHz

POE

Mode: 120 V/ 60 Hz			
Margin (dB)	Frequency (MHz)	Conductor (Line/Neutral)	Range (MHz)
-9.49	0.700323	Neutral	0.15 MHz to 30 MHz

4.9 Conducted Emission Test Plots and Data

120V, 60 Hz – Live

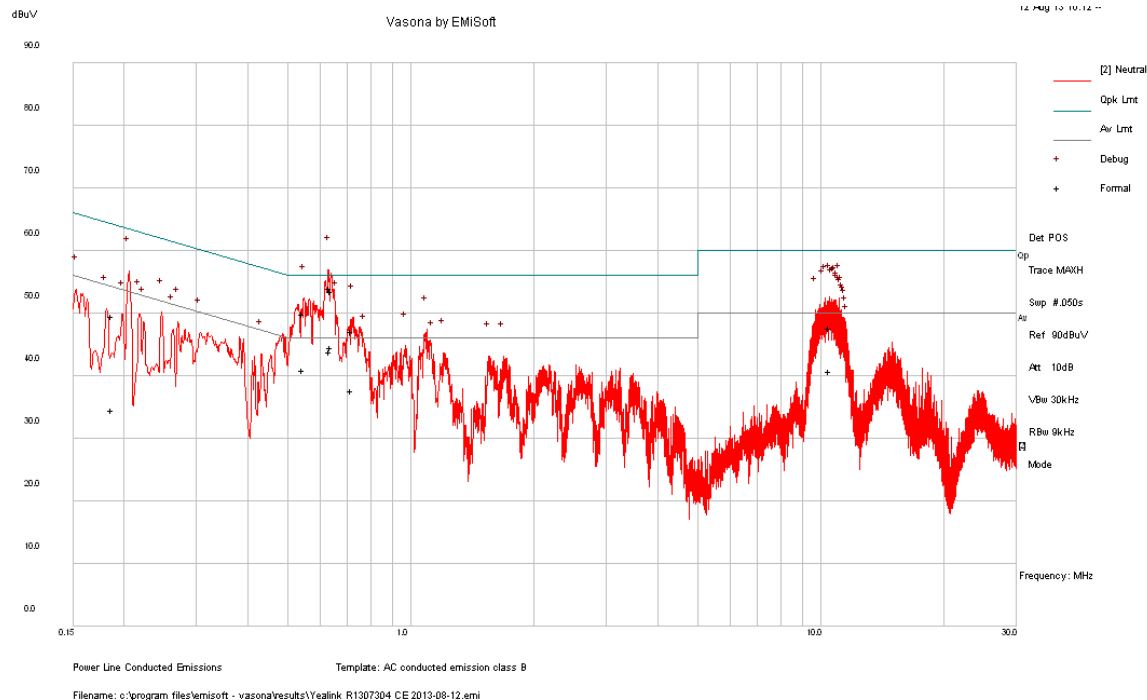


Quasi-Peak Measurements

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.631272	50.86	Line	56	-5.14
0.189801	48.32	Line	64.05	-15.72
0.154836	52.97	Line	65.74	-12.76
0.722706	44.28	Line	56	-11.72
0.251901	44.35	Line	61.69	-17.35
9.833323	43.96	Line	60	-16.04

Average Measurements

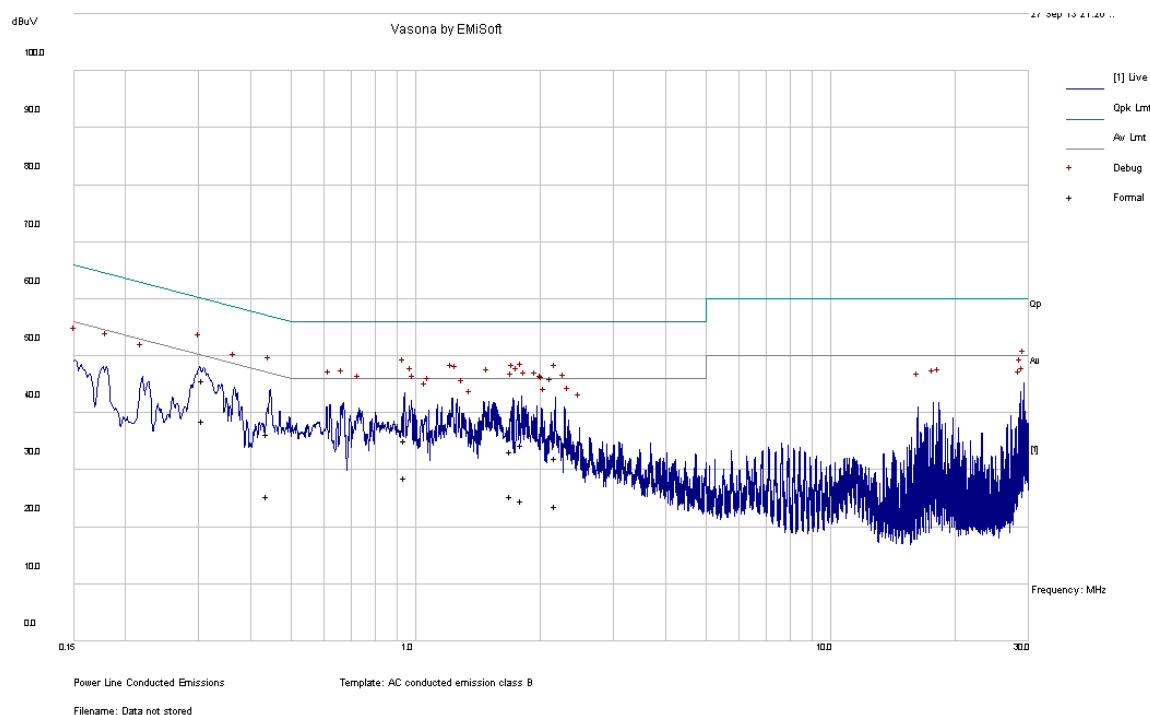
Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.631272	41.44	Line	46	-4.56
0.189801	33.87	Line	54.05	-20.18
0.154836	35.43	Line	55.74	-20.31
0.722706	35.03	Line	46	-10.97
0.251901	31.1	Line	51.69	-20.60
9.833323	37.68	Line	50	-12.32

120V, 60 Hz – Neutral**Quasi-Peak Measurements**

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.633969	53.99	Neutral	56	-2.01
0.545475	49.87	Neutral	56	-6.13
0.641367	53.62	Neutral	56	-2.38
0.187281	49.59	Neutral	64.16	-14.57
0.71667	47.1	Neutral	56	-8.9
10.49388	47.63	Neutral	60	-12.37

Average Measurements

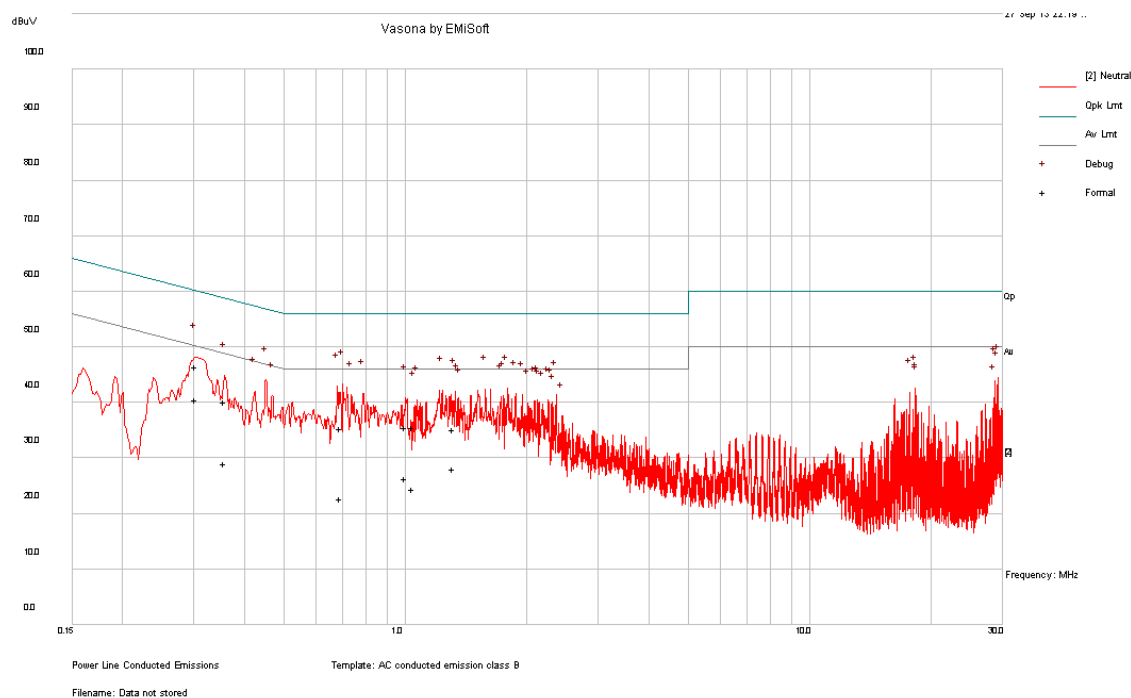
Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.633969	43.94	Neutral	46	-2.06
0.545475	41.02	Neutral	46	-4.98
0.641367	44.51	Neutral	46	-1.49
0.187281	34.55	Neutral	54.16	-19.61
0.71667	37.63	Neutral	46	-8.37
10.49388	40.71	Neutral	50	-9.29

POE Line- 120V, 60 Hz – Line**Quasi-Peak Measurements**

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.307554	45.75	Line	60.04	-14.29
0.940632	35.23	Line	56	-20.77
0.439803	36.3	Line	57.07	-20.77
1.799871	34.42	Line	56	-21.58
1.701237	33.17	Line	56	-22.83
2.181916	32.12	Line	56	-23.88

Average Measurements

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.307554	38.58	Line	50.04	-11.46
0.940632	28.6	Line	46	-17.40
1.701237	25.46	Line	46	-20.54
1.799871	24.64	Line	46	-21.36
0.439803	25.31	Line	47.07	-21.75
2.181916	23.74	Line	46	-22.26

POE Line- 120V, 60 Hz – Neutral**Quasi-Peak Measurements**

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.700323	46.31	Neutral	60.16	-13.85
0.301106	40.00	Neutral	58.77	-18.77
1.786044	35.69	Neutral	56.00	-20.31
0.677937	35.41	Neutral	56.00	-20.59
1.578973	35.27	Neutral	56.00	-20.73
0.452211	35.25	Neutral	56.00	-20.75

Average Measurements

Frequency (MHz)	Corrected Amplitude (dBuV)	Conductor	Limit (dBuV)	Margin (dB)
0.700323	40.67	Neutral	50.16	-9.49
0.452211	29.04	Neutral	46.00	-16.96
1.578973	27.47	Neutral	46.00	-18.53
0.301106	30.10	Neutral	48.77	-18.67
1.786044	26.36	Neutral	46.00	-19.64
0.677937	24.17	Neutral	46.00	-21.83

5 FCC § 15.109 – Radiated Emissions

5.1 Applicable Standard

As per FCC §15.109: Radiated Emission Limits

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Field Strength (μ V/m)
30-88	100
88-216	150
216-960	200
Above 960	500

(g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, “Information Technology Equipment—Radio Disturbance Characteristics—Limits and Methods of Measurement.”

5.2 Test Setup

The radiated emissions tests were performed in the 5-meter test chamber, using the setup in accordance with ANSI C63.4-2009 measurement procedures. The specifications used were in accordance with FCC Part 15B, Class B limits for frequencies below 1 GHz.

The spacing between the peripherals was 10 cm.

The external I/O cables were draped along the test table and bundled as required.

The adapter of the EUT was connected to a 120 V, 60 Hz AC line power source.

The adapter of the POE was connected to a 120 V, 60 Hz AC line power source.

5.3 Test Procedure

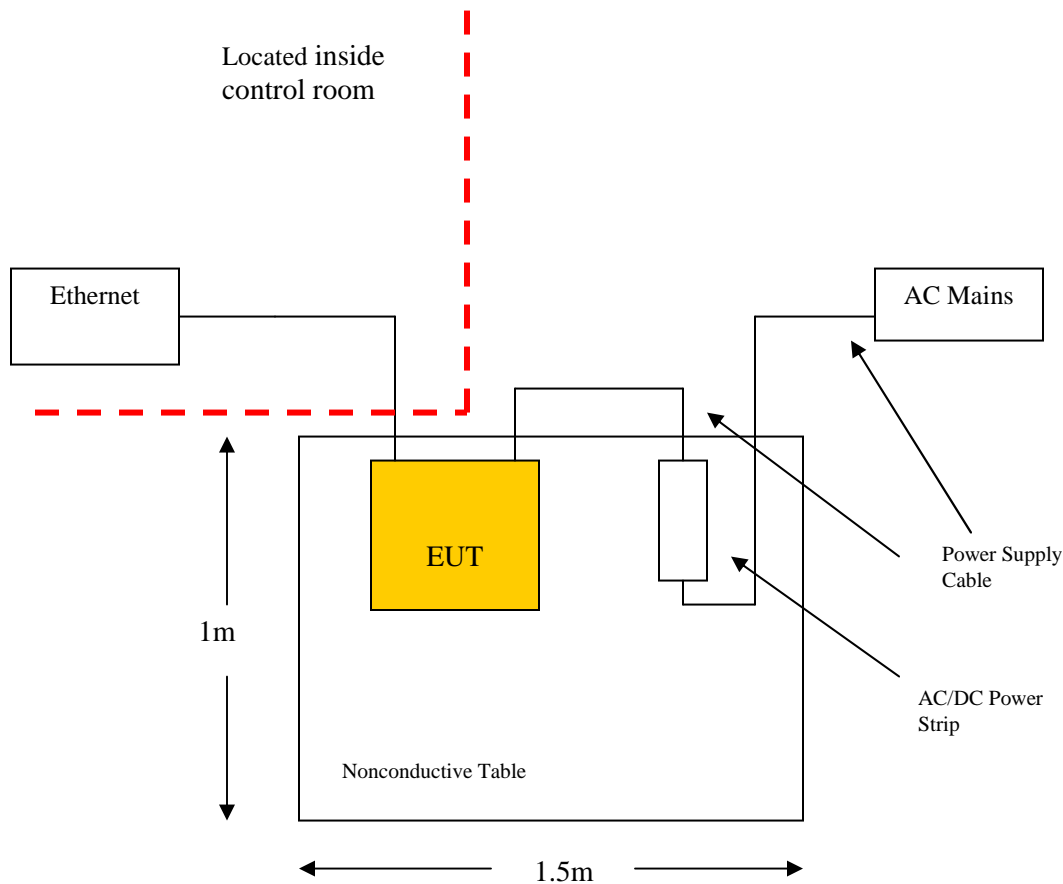
Using the procedure in ANSI C63.4-2009 §8.3.1.1, determine the mode of operation and cable positions of the EUT system that produce the emission with the highest amplitude relative to the limit. This equipment arrangement shall be used in final radiated emission measurements of the EUT.

Using the mode of operation and equipment arrangement of the EUT determined in ANSI C63.4-2009 §11.6.1, follow the procedure in ANSI C63.4-2009 §8.3.1.2 to perform final radiated emission measurements. Record the six highest emissions relative to the limit in the frequency range specified by the procuring or regulatory agency.

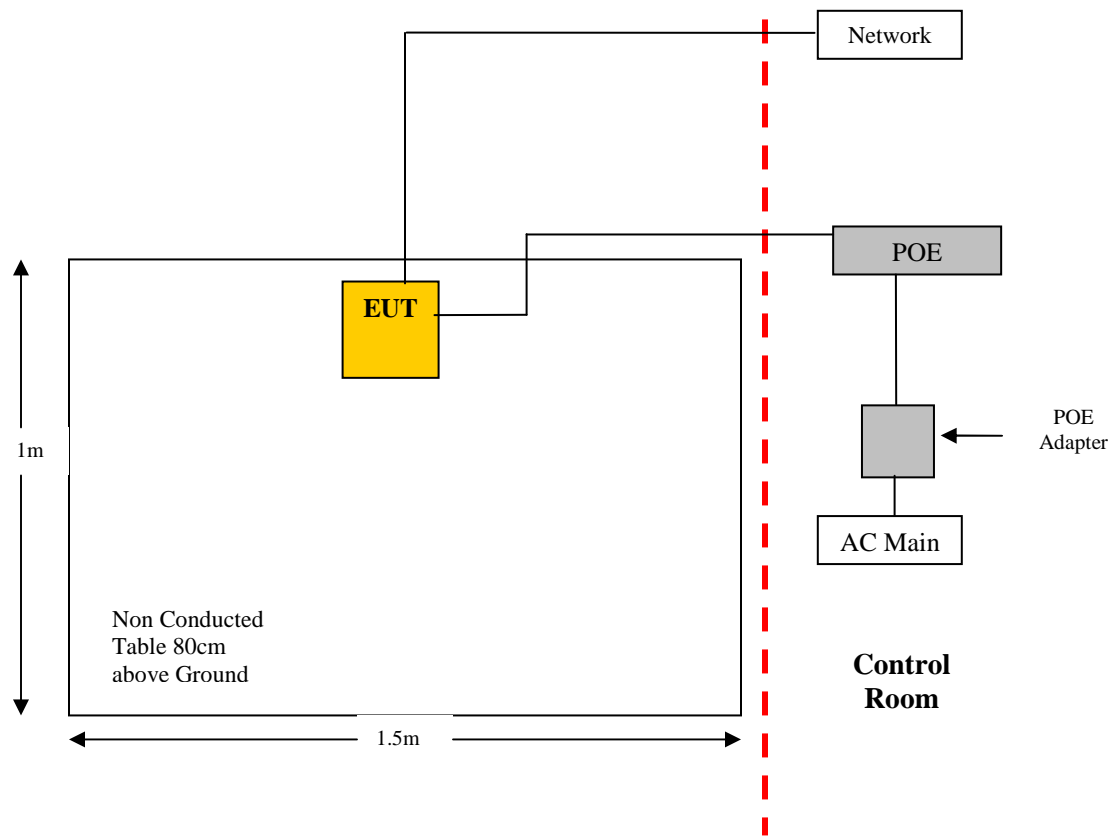
For emission below 1 GHz, all data was recorded in the peak detection mode and Quasi-peak readings, for emission above 1 GHz, all data was recorded in the peak detection mode and Average readings.

5.4 Test Setup Block Diagram

AC Line



POE Line



5.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

$$CA = Ai + AF + CL + Atten - Ga$$

For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corrected Amplitude} - \text{Class B Limit}$$

5.6 Test Equipment List and Details

Manufacturers	Descriptions	Models	Serial Numbers	Calibration Dates	Calibration Interval
Hewlett Packard	Pre amplifier	8447D	2944A07030	2013-03-08	1 year
Rohde & Schwarz	EMI Test Receiver	ESCI 1166.5950K03	100044	2013-04-23	1 year
Sunol Science Corp	System Controller	SC99V	122303-1	N/R	N/R
Sunol Science Corp	Combination Antenna	JB1	A020106-1	2013-06-17	1 year

Statement of Traceability: BACL Corp. attests that all calibrations have been performed according to A2LA requirements, traceable to the NIST.

5.7 Test Environmental Conditions

Temperature:	25 °C
Relative Humidity:	61 %
ATM Pressure:	101.56 kPa

Testing was performed by Jerry Wang on 2013-08-12 in 5 m chamber 3.

5.8 Summary of Test Results

According to the recorded data, the EUT complied with FCC §15.109 Standard, Class B limits, and had the worst margin reading of:

AC Line

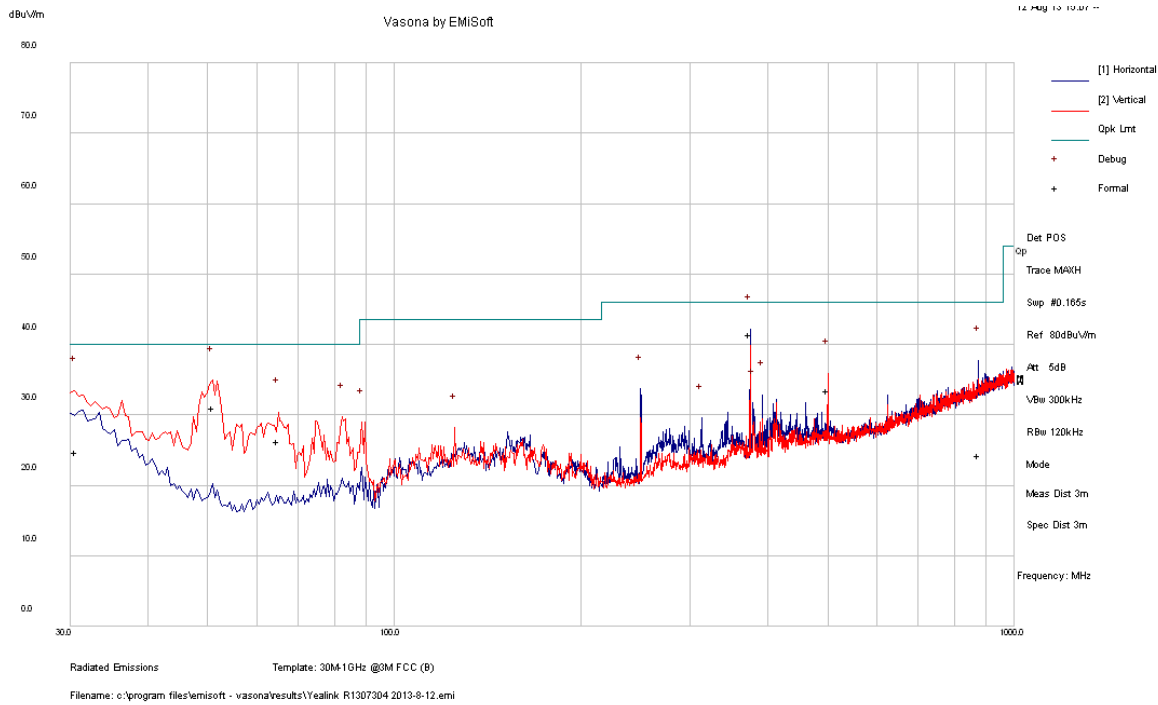
Mode: 30 MHz to 1 GHz			
Margin (dB)	Frequency (MHz)	Polarization (Horizontal/Vertical)	Range (MHz)
-4.58	374.9863	H	30 MHz to 1000 MHz

POE

Mode: 30 MHz to 1 GHz			
Margin (dB)	Frequency (MHz)	Polarization (Horizontal/Vertical)	Range (MHz)
-6.86	37.36275	V	30 MHz to 1000 MHz

5.9 Radiated Spurious Emissions Test Plots and Data

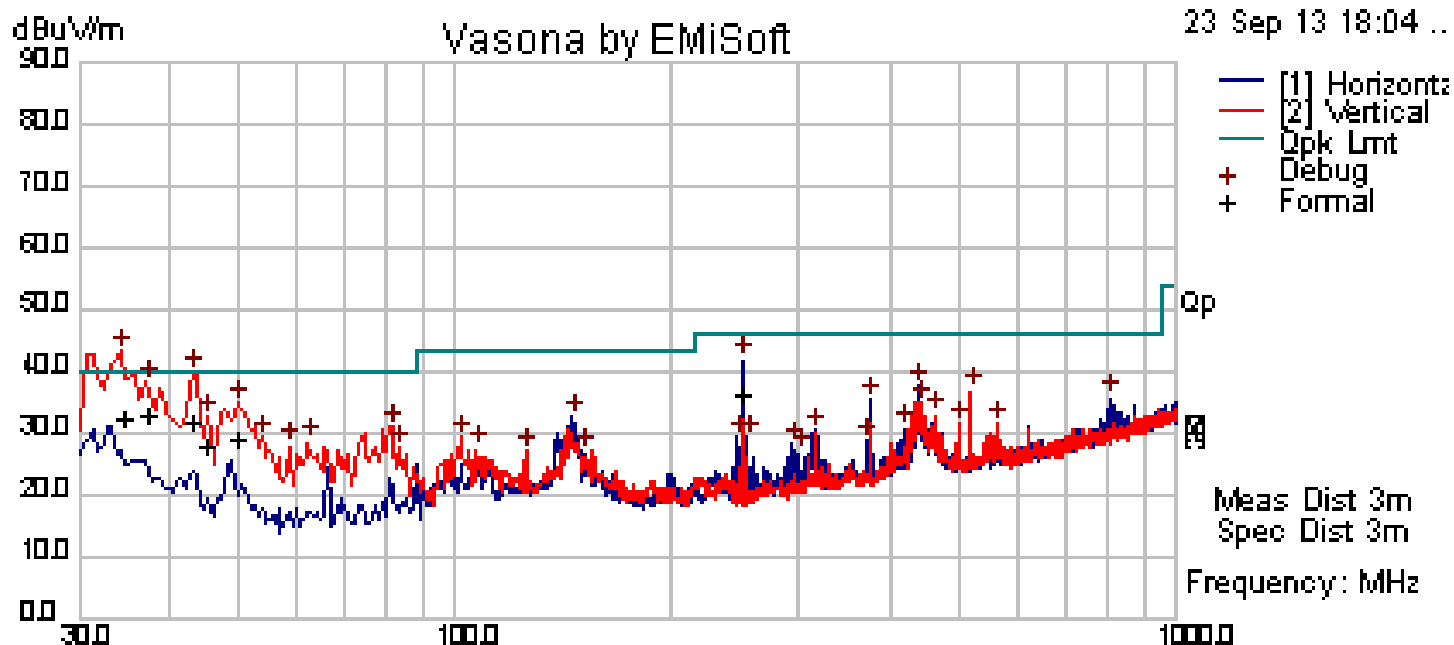
30 MHz to 1 GHz at 3 Meters Distance – AC Line



Quasi-Peak Measurements

Frequency (MHz)	Corrected Amplitude (dBuV)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV)	Margin (dB)
374.9863	41.42	99	H	0	46	-4.58
51.0525	31.06	110	V	88	40	-8.94
30.59475	24.8	138	V	168	40	-15.2
875.2155	24.26	100	H	292	46	-21.74
64.79325	26.32	211	V	360	40	-13.68
500.028	33.49	99	V	210	46	-12.51

30 MHz to 1 GHz at 3 Meters Distance – POE Line



Radiated Emissions

Template: 30MHz-1GHz RE

Filename: c:\program files\emisoft - vasona\results\FCC 15B 2013-09-23-Unit 1.emi

Quasi-Peak Measurements

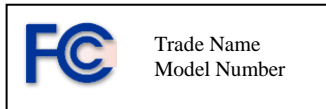
Frequency (MHz)	Corrected Amplitude (dBuV)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV)	Margin (dB)
37.36275	33.14	118	V	46	40	-6.86
34.611	32.58	107	V	284	40	-7.42
42.9205	31.95	124	V	17	40	-8.05
250.0195	36.52	145	H	111	46	-9.48
49.6365	29.39	164	V	271	40	-10.61
45.267	28.18	99	V	199	40	-11.82

6 Exhibit A – FCC Product Labeling Requirements

6.1 Label Information

As per FCC §15.19: Labelling Requirements Paragraph 3

(3) All other devices shall bear the following statement in a conspicuous location on the device:



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.

Specifications: Text is white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened and shall be affixed at a conspicuous location on the EUT.

As per FCC §15.105: Information to the User

(a) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

6.2 Suggested Label Location on EUT

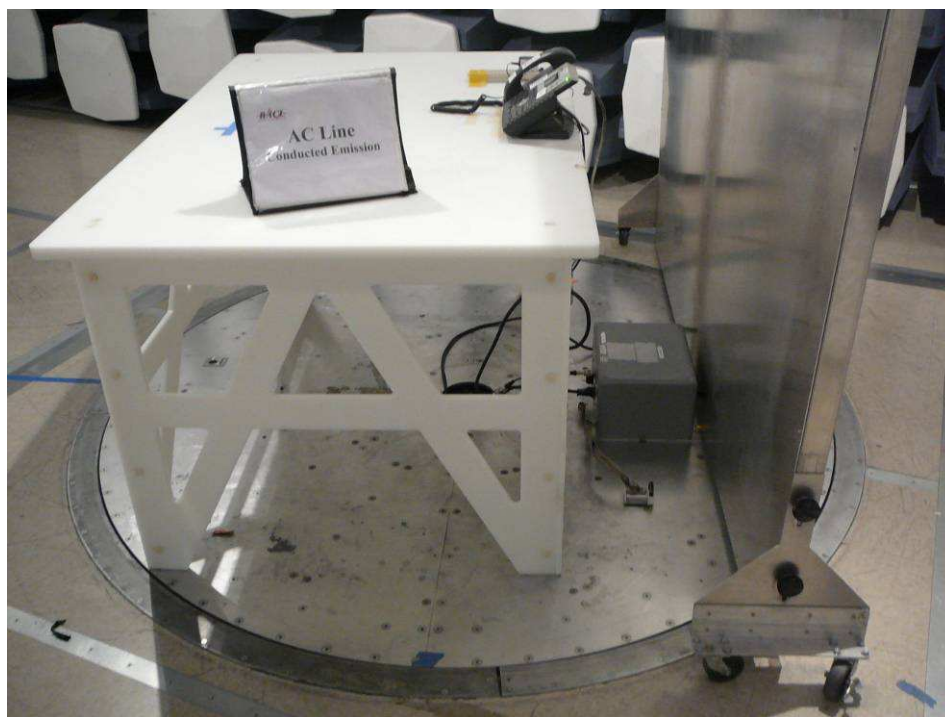


7 Exhibit B- Test Setup Photos

7.1 Conducted Emission- AC Line-Front View



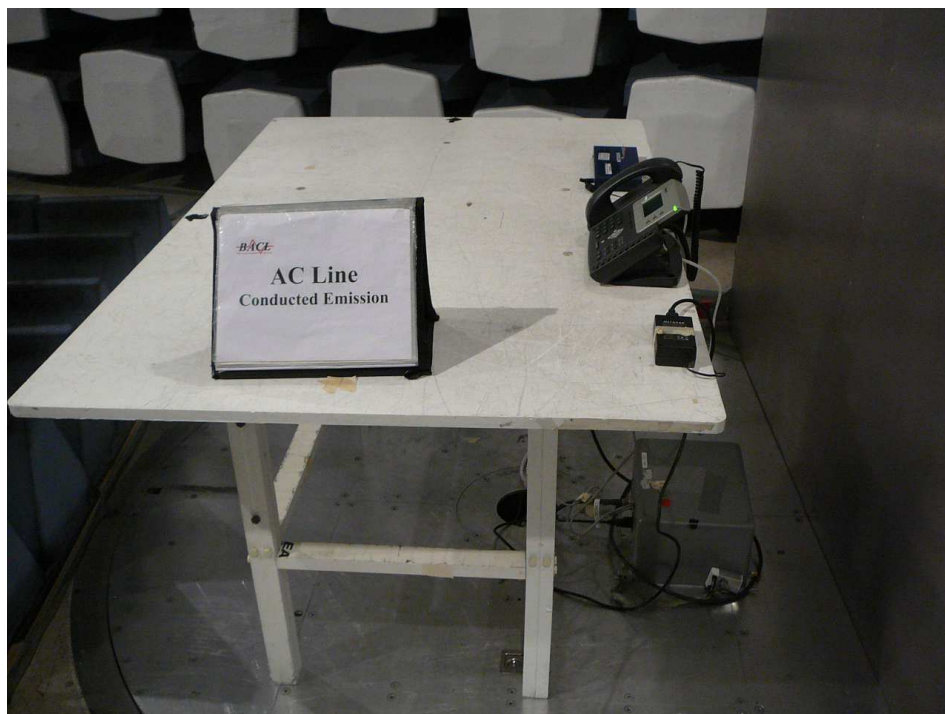
7.2 Conducted Emission- AC Line-Side View



7.3 Conducted Emission- POE Line-Front View



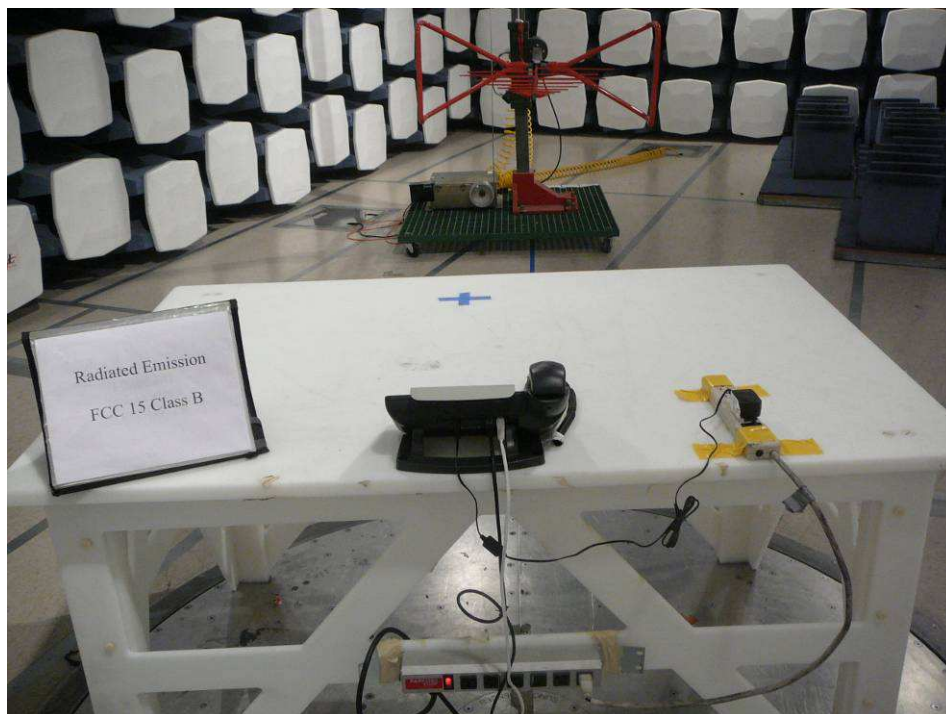
7.4 Conducted Emission- POE Line-Side View



7.5 Radiated Emission- AC Line - Front View



7.6 Radiated Emission- AC Line - Rear View



7.7 Radiated Emission- POE Line - Front View



7.8 Radiated Emission- POE Line - Rear View



8 Exhibit C- EUT Photos

8.1 EUT- Top View



8.2 EUT- Bottom View



8.3 EUT – Side View



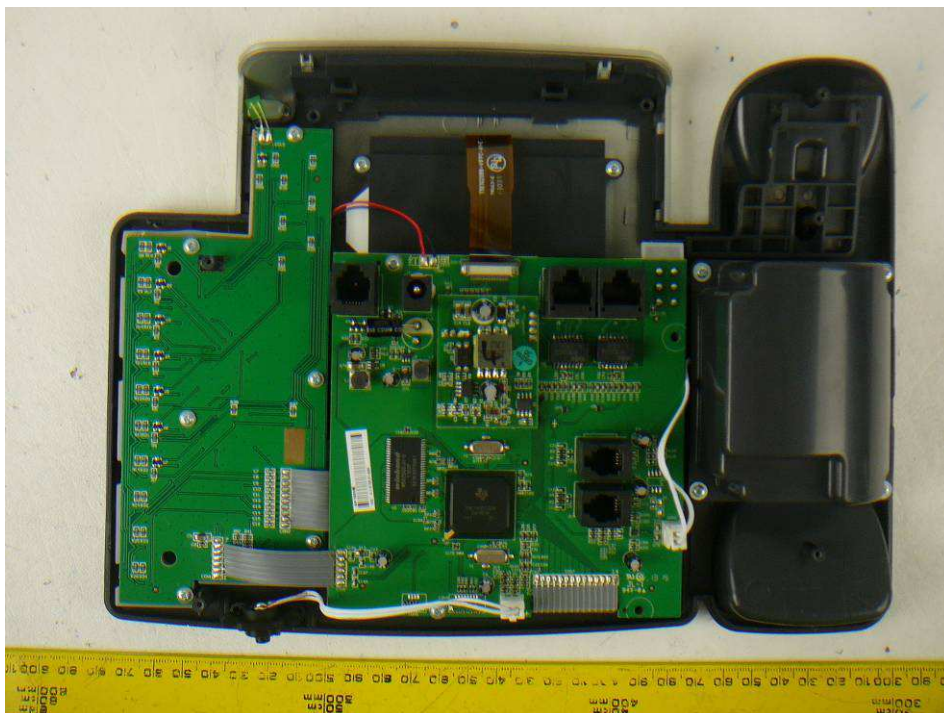
8.4 EUT – Side View



8.5 EUT – Side View



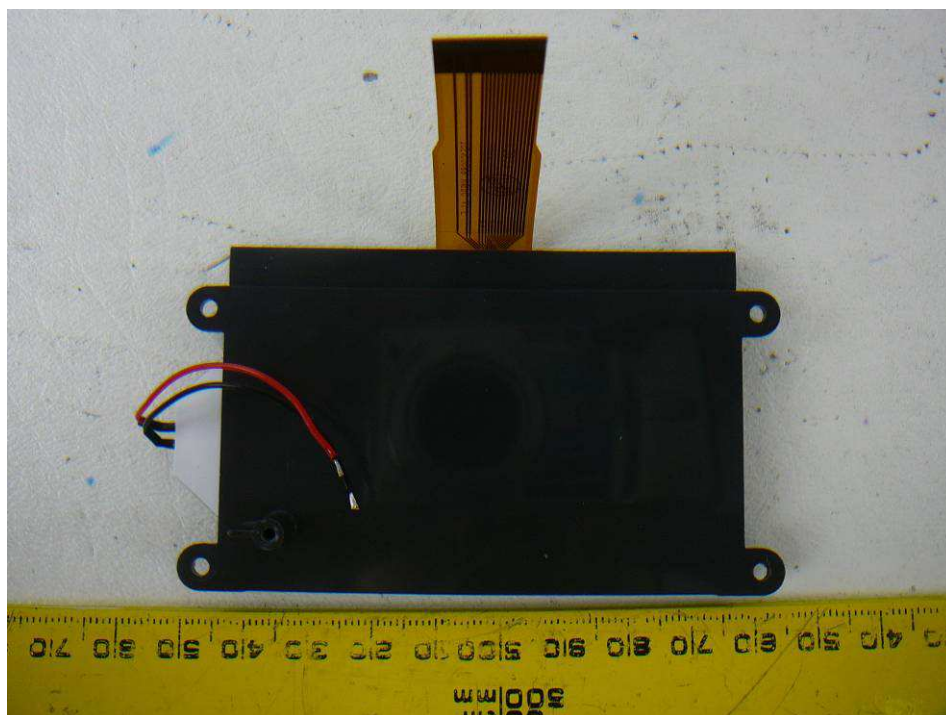
8.6 EUT – Cover off View



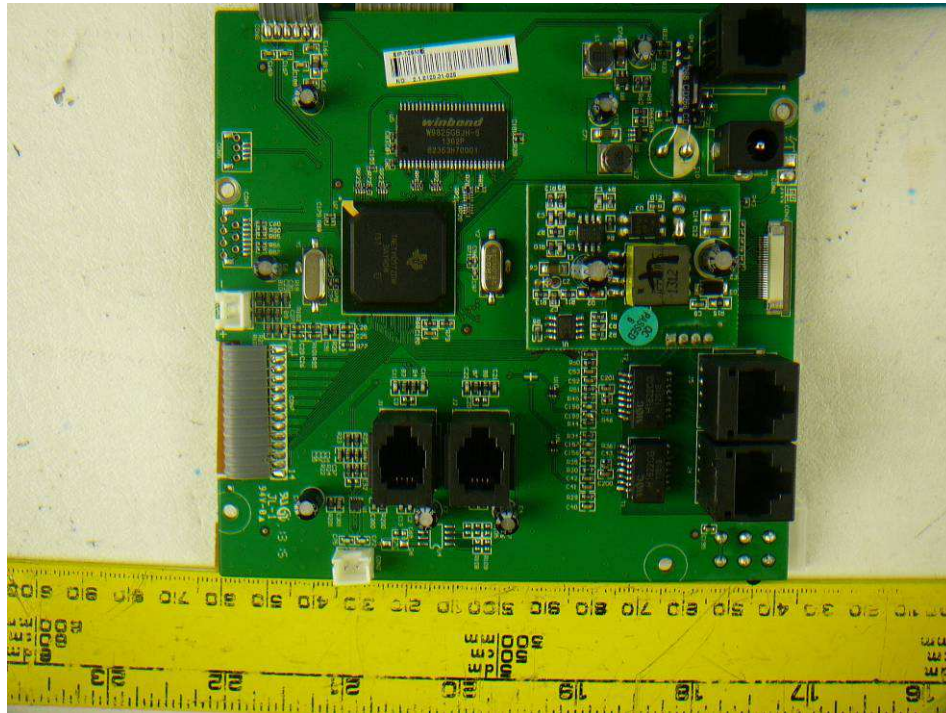
8.7 EUT LCD – Top View



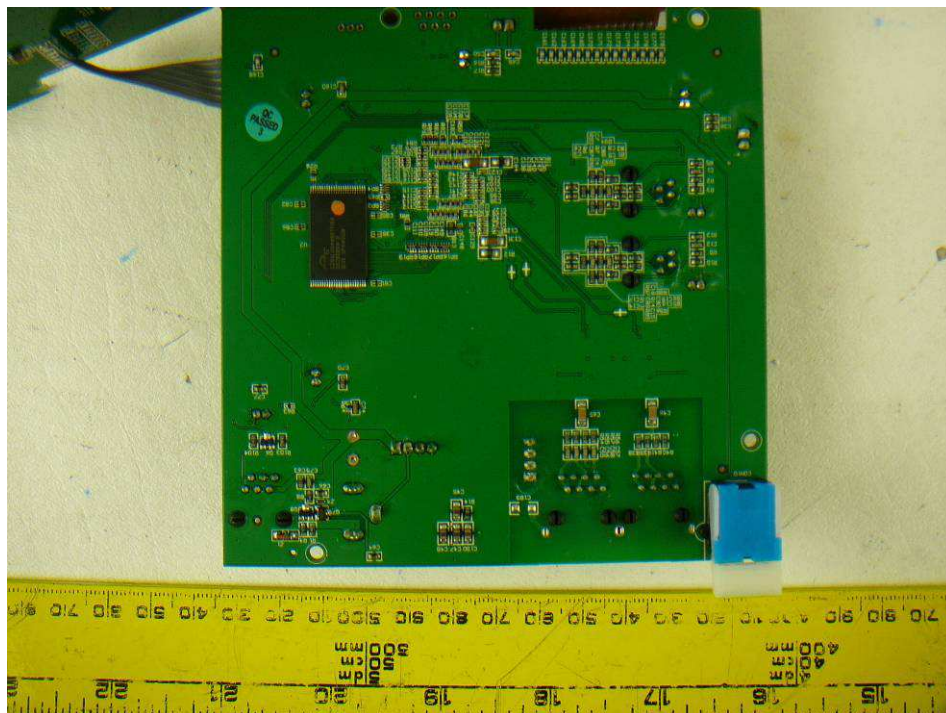
8.8 EUT LCD – Bottom View



8.9 EUT Main PCB – Top View



8.10 EUT Main PCB – Bottom View



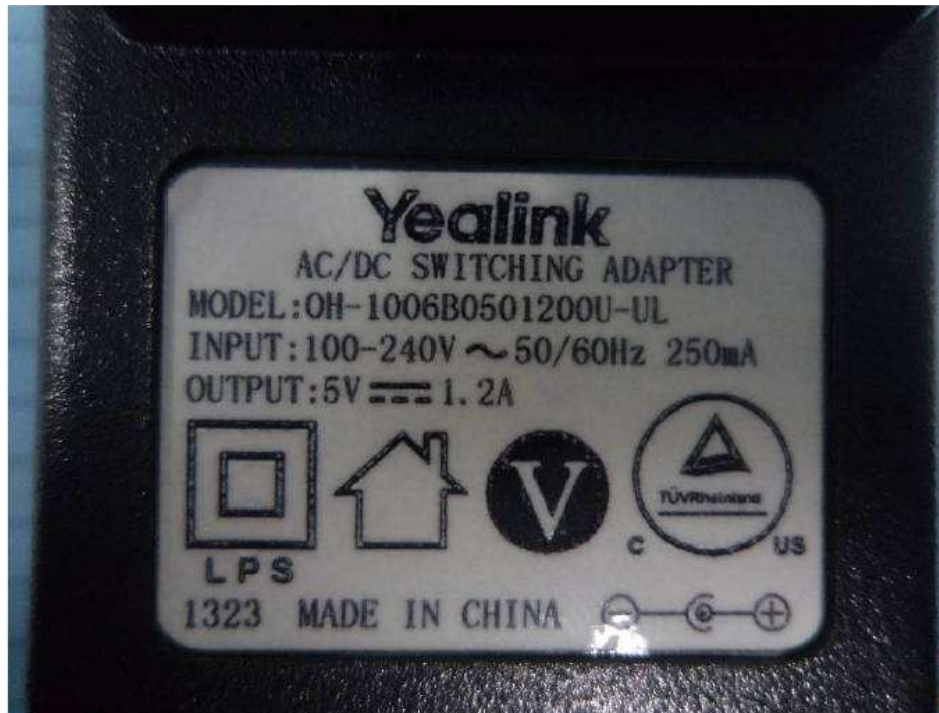
8.11 EUT – Adapter Photo 1



8.12 EUT – Adapter Photo 2



8.13 EUT – Adapter Photo 3



9 Declaration of Similarity



Yealink (Xiamen) Network Technology Co., LTD

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Tel: 86-592-5702000 Fax: 86-592-5702455

2013-6-21

Product Similarity Declaration Letter

To Whom It May Concern,

We, Yealink (Xiamen) Network Technology Co., LTD, hereby declare that our product IP Phone, the model SIP-T26P and SIP-T26 are electrically identical, they have the same PCB layout and schematic, the only difference is the model T26P with POE circuit, the model T26 without POE circuit. SIP-T26P was tested by BACL.

Please contact me if you have any question.

Signature:

A handwritten signature in black ink that reads "Stone Lu".

Stone Lu

Vice General Manager

---END OF REPORT---