FCC PART 15 CLASS B EMI MEASUREMENT AND TEST REPORT

For

Shanghai DareGlobal Technologies Co.,Ltd.

22F,Info Tech Building,No.1555 Kongjiang Road,Shanghai P.R.China

FCC ID: RS3DSL-500

| This Report Concerns: | | Equipment Type: ADSLMODEM | | | |
|-----------------------|--|--|--|--|--|
| | | | | | |
| Test Engineer: | Sam Lin and Hansen Hu | | | | |
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| Report No.: | RSH05080801 | | | | |
| | | | | | |
| Test Date: | August 11-26, 2005 | | | | |
| | this 18/ | | | | |
| Reviewed By: | Chris Zeng | Charle (| | | |
| Kevieweu Dy. | Chirls Zeng | · · · · · · · · · · · · · · · · · · · | | | |
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September 12, 2005

Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Bay Area Compliance Lab Corp. (ShenZhen). This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Shanghai DareGlobal Technologies Co.,Ltd.*'s product, model number: WMM001 or the "EUT" as referred to in this report is a Transmitter, ADSLMODEM. The EUT is measured approximately 5.0cm L x 9.0 cm W x 4.0cm H. rated input voltage: DC 5.2V.

AC/DC Adapter: DUE Model: DSA-12W-05FUS, S/N: PS052100, Input: 100-240 V~50/60 Hz 0.3A, Output: +5.2 V == 1A

* The test data gathered are from production sample, serial number: 0508005, provided by the manufacturer.

Objective

This Type approval report is prepared on behalf of *Shanghai DareGlobal Technologies Co.,Ltd.* in accordance with Part 2, Subpart J, and Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules, sec 15.107 and sec 15.109.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, 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 radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (ShenZhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Lab Corp. (ShenZhen) to collect radiated and conducted emission measurement data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China.

Test site at Bay Area Compliance Lab Corp. (ShenZhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Lab Corp. (ShenZhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at http://ts.nist.gov/ts/htdocs/210/214/scopes/200707.htm

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Equipment Modifications

Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

EUT Exercise Software

N/A

Special Accessories

The special accessories were provided by Bay Area Compliance Lab Corp. (ShenZhen).

Schematic

Please refer to the Exhibit D.

Equipment Modifications

Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Results reported relate only to the product tested, serial number:0508005.

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|-------------------------|-----------|
| §15.107 | Conducted Emission | Compliant |
| §15.109 | Radiated Emission Limit | Compliant |

§15.107 - CONDUCTED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 3.2 dB.

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IFBW |
|------------------|-------|
| 150 kHz – 30 MHz | 9 kHz |

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------------|-------------------|---------|---------------|---------------------|-------------------------|
| Com-Power | L.I.S.N. | LI-200 | 12005 | N/A | N/A |
| Com-Power | L.I.S.N. | LI-200 | 12008 | N/A | N/A |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 830245/006 | 2005-1-26 | 2006-1-26 |
| Rohde & Schwarz | L.I.S.N. | ESH2-Z5 | 892107/021 | 2005-2-28 | 2006-2-28 |

* Com-Power's LISN were used as the supporting equipment.

* Statement of Traceability: Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the host PC was connected to the outlet of the first LISN, all other support equipment power cords were connected to the outlet of the second LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 Class B, with the worst margin reading of:

EUT Adapter: **-8.41 dB** at **0.215 MHz** in the Line conductor mode. host PC: **-8.00 dB** at **7.445 MHz** in the Line conductor mode.

Test Data

Environmental Conditions

| Temperature: | 27 ° C |
|--------------------|----------|
| Relative Humidity: | 65% |
| ATM Pressure: | 1000mbar |

The testing was performed by Hansen Hu on 2005-8-15.

EUT Adapter: Test Mode: Running

| LINE CONDUCTED EMISSIONS | | | | FCC PART | 15 CLASS B |
|--------------------------|-----------|----------|--------------|----------|------------|
| Frequency | Amplitude | Detector | Phase | Limit | Margin |
| MHz | dBµV | QP/AV | Line/Neutral | dBµV | dB |
| 0.215 | 54.60 | QP | Line | 63.01 | -8.41 |
| 0.215 | 51.80 | QP | Neutral | 63.01 | -11.21 |
| 0.320 | 45.40 | QP | Line | 59.71 | -14.31 |
| 0.215 | 36.90 | AV | Line | 53.01 | -16.11 |
| 0.445 | 40.00 | QP | Line | 56.97 | -16.97 |
| 0.320 | 42.60 | QP | Neutral | 59.71 | -17.11 |
| 0.215 | 32.50 | AV | Neutral | 50.00 | -17.50 |
| 0.440 | 36.80 | QP | Neutral | 57.06 | -20.26 |
| 15.960 | 35.20 | QP | Line | 56.00 | -20.80 |
| 0.555 | 35.50 | QP | Line | 56.97 | -21.47 |
| 4.045 | 34.50 | QP | Line | 56.00 | -21.50 |
| 0.775 | 31.80 | QP | Neutral | 56.00 | -24.20 |
| 0.445 | 21.80 | AV | Line | 46.97 | -25.17 |
| 4.055 | 30.70 | QP | Neutral | 56.00 | -25.30 |
| 0.320 | 22.60 | AV | Line | 49.71 | -27.11 |
| 9.740 | 31.60 | QP | Neutral | 60.00 | -28.40 |
| 0.440 | 18.50 | AV | Neutral | 47.06 | -28.56 |
| 4.045 | 16.80 | AV | Line | 46.00 | -29.20 |
| 0.320 | 20.40 | AV | Neutral | 49.71 | -29.31 |
| 15.960 | 19.90 | AV | Line | 50.00 | -30.10 |
| 4.055 | 14.00 | AV | Neutral | 46.00 | -32.00 |
| 0.555 | 11.20 | AV | Line | 46.00 | -34.80 |
| 9.740 | 14.90 | AV | Neutral | 50.00 | -35.10 |
| 0.775 | 10.20 | AV | Neutral | 46.00 | -35.80 |

| host PC: | |
|--------------------|--|
| Test Mode: Running | |

| LINE CONDUCTED EMISSIONS | | | | FCC PART | 15 CLASS B |
|--------------------------|-----------|----------|--------------|----------|------------|
| Frequency | Amplitude | Detector | Phase | Limit | Margin |
| MHz | dBµV | QP/AV | Line/Neutral | dBµV | dB |
| 7.445 | 48.00 | QP | Line | 56.00 | -8.00 |
| 1.025 | 34.90 | AV | Neutral | 46.00 | -11.10 |
| 1.540 | 34.70 | AV | Neutral | 46.00 | -11.30 |
| 7.445 | 47.90 | QP | Neutral | 60.00 | -12.10 |
| 7.565 | 47.80 | QP | Neutral | 60.00 | -12.20 |
| 1.800 | 33.20 | AV | Line | 46.00 | -12.80 |
| 1.025 | 41.90 | QP | Neutral | 56.00 | -14.10 |
| 1.095 | 31.20 | AV | Line | 46.00 | -14.80 |
| 10.865 | 34.60 | AV | Neutral | 50.00 | -15.40 |
| 14.105 | 34.60 | AV | Neutral | 50.00 | -15.40 |
| 1.540 | 40.40 | QP | Neutral | 56.00 | -15.60 |
| 7.445 | 34.00 | AV | Neutral | 50.00 | -16.00 |
| 1.800 | 39.80 | QP | Line | 56.00 | -16.20 |
| 10.925 | 33.60 | AV | Line | 50.00 | -16.40 |
| 7.565 | 33.40 | AV | Neutral | 50.00 | -16.60 |
| 1.095 | 39.10 | QP | Line | 56.00 | -16.90 |
| 10.925 | 42.40 | QP | Line | 60.00 | -17.60 |
| 10.865 | 42.30 | QP | Neutral | 60.00 | -17.70 |
| 7.445 | 31.60 | AV | Line | 50.00 | -18.40 |
| 0.190 | 35.60 | AV | Line | 54.04 | -18.44 |
| 14.105 | 39.70 | QP | Neutral | 60.00 | -20.30 |
| 0.320 | 28.40 | AV | Line | 49.71 | -21.31 |
| 0.190 | 41.80 | QP | Line | 64.04 | -22.24 |
| 0.320 | 31.40 | QP | Line | 59.71 | -28.31 |

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

FCC ID: RS3DSL-500

port

EUT Adapter:

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| Operator: | Hansen | | | | |
| Test Snec. | AC 120V/COUR | τ. | | | |
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| Scan Settings | (1 Range) | | | | |
| Free | quencies | • • • | Recei | ver Setting | s |
| Start | Stop ' \$ | Step IF I | W Detector | M-Time A | tten Preamp |
| 150 k (| 30M 5 | 5k 91 | K PK+AV | 10ms AUT | OLN OFF |
| Transducer No. 1 | Start St 9k 3 | op Name 80M ESH3 | 2 3 | | |
| Final Measureme | ent: x QP / + Meas Time Subranges | AV 2: 1s 3: 25 | | | |
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FCC ID: RS3DSL-500

host PC:

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|--------------------|---------------------|---------------------|----------------|----------------|---|------------------|
| EUT: | ADSL Mode | em | | | | |
| Manuf: | DareGloba | al | | | | |
| Op Cond: | Running | | | | • | |
| Operator: | Sam | | | | | |
| Test Spec: | AC 120V/ | 60Hz N Hos | t PC | | | |
| Comment: | Temp:27 Humi:58% | | | | | |
| Date: | 20. Sep | 05 13:48 | | | | , |
| Scan Settings | (1 Range) | | -! | Receiv | er Settings | |
| Chart | equencies et on | Step | IF BW | Detector | M-Time Atten | . Preamp |
| Start | RUM | 5k | 2 9k | PK+AV | 20mg AUTO LN | OFF |
| 1000 | 50.1 | 572 | | | | |
| Transducer No 1 | . Start 9k | Stop 30M | Name FACTOR | | | |
| Final Measure | ement: x QP | / + AV | 1.0 | | | |
| | Meas | Time: | 1 5 | | | |
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FCC ID: RS3DSL-500



§15.109 - RADIATED EMISSIONS TEST

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in 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 NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 4.4 dB.

The fundamental data was recorded in average detection mode: set the VBW AVE on, and then record the data.

EUT Setup

The radiated emission tests were performed in the 3 meters chamber A test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | R B/W | Video B/W | IF B/W |
|-----------------|---------|-----------|---------|
| 30 – 1000 MHz | 100 kHz | 100 kHz | 120 kHz |

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date | |
|--------------------|-------------------|-------|---------------|---------------------|-------------------------|--|
| HP | Amplifier | 8447E | 1937A01046 | 2005-8-17 | 2006-8-17 | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 100035 | 2005-8-17 | 2006-8-17 | |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2005-4-28 | 2006-4-28 | |

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter reading. The basic equation is as follows:

Corr. Ampl. = Meter Reading + Antenna Loss+ Cable Loss - Amplifier Gain

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

Margin = Corr. Ampl. - Limit

Test Results Summary

According to the data in the following table, the EUT complied with the <u>FCC Part 15 Class B</u>, with the worst margin reading of:

-0.9 dB at 251.18 MHz in the Horizontal polarization.

Test Data

Environmental Conditions

| Temperature: | 25 °C |
|--------------------|----------|
| Relative Humidity: | 58 % |
| ATM Pressure: | 998 mbar |

The testing was performed by Sam Lin on 2005-8-25.

Test mode: Transmitting

| INDICATED | | TABLE | Antenna | | CORRECTION FACTOR | | | CORRECTED Amplitude | FCC PART 15 CLASS B | | |
|-----------|---------|----------|-----------|--------|-------------------|---------|-------|------------------------|------------------------|--------|--------|
| | Meter | | | | | Antenna | Cable | | Correction | | |
| Frequency | Reading | Detector | Direction | Height | Polar | Loss | loss | Amplifier | Factor | Limit | Margin |
| MHz | dBuV | PK/QP/AV | Degree | Meter | H / V | dB | dB | dB | dBuV/m | dBuV/m | dB |
| 251.18 | 59.1 | QP | 45 | 1.2 | Н | 12.3 | 1.3 | 27.6 | 45.1 | 46.0 | -0.9 |
| 845.08 | 45.7 | QP | 45 | 1.2 | V | 22.3 | 3.4 | 28.2 | 43.2 | 46.0 | -2.8 |
| 251.18 | 57.1 | QP | 60 | 1.0 | V | 12.3 | 1.3 | 27.6 | 43.1 | 46.0 | -2.9 |
| 374.62 | 52.3 | QP | 270 | 1.0 | Н | 15.5 | 1.9 | 27.8 | 41.9 | 46.0 | -4.1 |
| 625.07 | 48.0 | QP | 60 | 1.0 | V | 19.3 | 2.8 | 28.7 | 41.4 | 46.0 | -4.6 |
| 452.71 | 50.3 | QP | 60 | 1.2 | V | 17.1 | 2.2 | 28.4 | 41.2 | 46.0 | -4.8 |
| 124.56 | 51.7 | QP | 90 | 1.0 | V | 14.0 | 1.1 | 28.5 | 38.3 | 43.5 | -5.2 |
| 502.94 | 49.0 | QP | 45 | 1.2 | Н | 18.0 | 2.4 | 28.6 | 40.8 | 46.0 | -5.3 |
| 64.88 | 54.0 | QP | 180 | 1.2 | V | 8.1 | 0.8 | 28.7 | 34.1 | 40.0 | -5.9 |
| 603.53 | 46.9 | QP | 90 | 1.2 | Н | 19.2 | 2.7 | 28.7 | 40.1 | 46.0 | -5.9 |
| 66.26 | 53.2 | QP | 45 | 1.0 | Н | 8.5 | 0.8 | 28.7 | 33.8 | 40.0 | -6.2 |
| 148.44 | 50.4 | QP | 60 | 1.2 | Н | 13.4 | 1.1 | 28.5 | 36.4 | 43.5 | -7.1 |

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

Horizontal:



DareGlobal ADSL Modem Date: 24.AUG.2005 15:50:24

Radiation Horizontal

Vertical:



DareGlobal ADSL Modem Radiation Vertical Date: 24.AUG.2005 15:58:34