588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 6191 5666 Report No.: SHEM110400036401

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Tino.Pan@sgs.com

TEST REPORT

Application No.: SHEM110400036401 Applicant: Sierra Wireless Inc.

FCC ID: N7NAC754S

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

Product Name: Mobile Hotspot

Brand Name: AirCard

Model Name: AirCard 754S

Standards: FCC PART 15: 2009 Subpart B

Date of Receipt: Apr. 11, 2011

Date of Test: Apr. 15, 2011

Date of Issue: Apr. 18, 2011

Test Result : PASS*

Tino Pan

E&E Section Manager

SGS-CSTC(Shanghai) Co., Ltd.

Jim Xu

E&E Project Engineer

SGS-CSTC(Shanghai)Co.,Ltd

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^{*} In the configuration tested, the EUT complied with the standards specified above.

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4 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|--------------------|--------------------|------------------|------------------|--------|
| Radiated Emission | CFR 47 Part 15.109 | ANSI C63.4: 2003 | Class D | DACC |
| 30MHz-1000MHz | CFR 47 Part 15.109 | ANSI C03.4: 2003 | Class B | PASS |
| Conducted Emission | CED 47 Dort 15 107 | ANGLO(2.4, 2002 | Class D | DAGG |
| 150KHz-30MHz | CFR 47 Part 15.107 | ANSI C63.4: 2003 | Class B | PASS |

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6 General Information

6.1 Client Information

Applicant: Sierra Wireless Inc.

Address of Applicant: 13811 Wireless Way Richmond, British Columbia, Canada, V6V

3A4.

Manufacturer: Sierra Wireless Inc.

Address of Manufacturer: 13811 Wireless Way Richmond, British Columbia, Canada, V6V

3A4.

6.2 General Description of E.U.T.

Product Name: AirCard 754S

Brand Name: AirCard

Support Frequency Band: GSM 850/1900, WCDMA Band II/V, HSDPA, HSUPA,

HSDPA+, WiFi.

Test Frequency Bands: GSM 850/1900, WCDMA Band II/V

Hardware Version: 4.1

Software Version: SWI9200H_00.01.00.02AP

6.3 Details of E.U.T.

Power Supply: 5VDC (USB port supply)

6.4 Details of support units

| Name / Function | Model No. | Remark |
|-----------------|-----------------|--------|
| Laptop | ThinkPad X100e | N/A |
| AC Adapter | Lenovo 65W 20V | N/A |
| Mouse | Lenovo M-UAE119 | N/A |
| Monitor | IBM 6734-AC1 | N/A |

6.5 Standards Applicable for Testing

The standards used were CFR 47 Part 15B:

Table 1: Tests Carried Out Under CFR 47 Part 15B:

| | Standard | Status |
|-----------------------|--------------------|--------------|
| FCC Part 15 Subpart B | Radiated Emission | \checkmark |
| FCC Part 15 Subpart B | Conducted Emission | $\sqrt{}$ |

 \times Indicates that the test is not applicable $\sqrt{}$ Indicates that the test is applicable

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6.6 Test Location

All the tests were performance at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

6.7 Test Confident level

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

• FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.

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6.8 Measurement Uncertainty

According to CISPR 16-4-2.

| Test Item | Frequency Range | Measurement Uncertainty |
|-----------------------------------|-----------------|-------------------------|
| Conducted Emission | 150KHz – 30MHz | 3.5dB |
| Radiated Emission 30MHz – 1000MHz | | 4.0dB |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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7 Equipment Used during Test

Radiated Emission

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal.Due |
|------|--------------------------------------|-----------------|-------------|------------|------------|------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESU40 | 100109 | 2010-06-03 | 2011-06-02 |
| 2 | ANTENNA | SCHWARZBECK | VULB9168 | 9168-313 | 2010-06-03 | 2011-06-02 |
| 3 | ANTENNA | SCHWARZBECK | BBHA9120D | 9120D-679 | 2010-06-03 | 2011-06-02 |
| 4 | ANTENNA | SCHWARZBECK | BBHA9170 | 9170-373 | 2010-06-03 | 2011-06-02 |
| 5 | TURNTABLE | INNCO | DS 2000S-1T | / | / | / |
| 6 | UNIVERSAL RADIO COMMUNICATION TESTER | Rohde & Schwarz | CMU 200 | 112012 | 2010-08-25 | 2011-08-24 |

Conducted Emission

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|------|--------------------------------------|-----------------|-----------|------------|------------|------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESCS30 | 100086 | 2010-06-04 | 2011-06-03 |
| 2 | Line impedance stabilization network | SCHWARZBECK | NSLK8127 | 8127-490 | 2010-05-07 | 2011-05-06 |
| 3 | Line impedance stabilization network | ETS | 3816/2 | 00034161 | 2010-08-02 | 2011-08-01 |
| 4 | UNIVERSAL RADIO COMMUNICATION TESTER | Rohde & Schwarz | CMU 200 | 112012 | 2010-08-25 | 2011-08-24 |

General Equipment

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal.Due date |
|------|--------------------------------|---|-----------|---------------|------------|--------------|
| 1 | Atmosphere pressure meter | Shanghai ZhongXuan Electronic Co;Ltd | BY-2003P | / | 2010-10-15 | 2011-10-14 |
| 2 | Digital Multimeter | FLUKE | 17B | 10560713 | 2010-09-16 | 2011-09-15 |
| 3 | Temperature& humidity recorder | ShangHai weather meter work | ZJ 1-2B | 0804181 | 2010-07-22 | 2011-07-21 |
| 4 | Digital illuminance meter | TES electrical electronic Corp. | TES-1330A | 05060221 9 | 2010-10-16 | 2011-10-15 |

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8 Emission Test Results

8.1 Radiated Emissions

Test Requirement: CFR 47 Part 15.109
Test Method: ANSI C63.4:2003
Test Date: Apr. 15, 2011
Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m Class: Class B

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Result: PASS

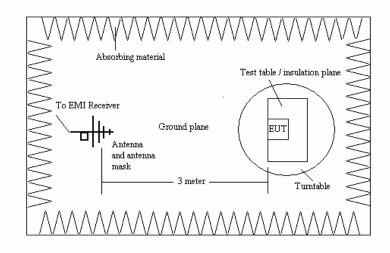
8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 48 % RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test EUT connected with laptop in idle mode.

8.1.2 Test setup:



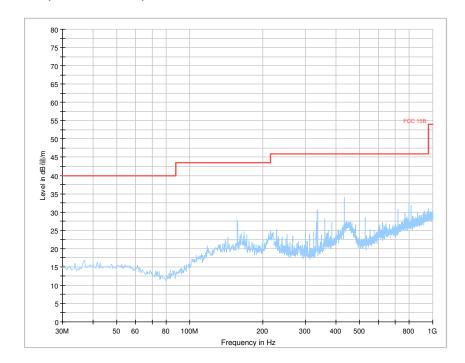
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8.1.3 Measurement Data:

Note: Red limit line - Quasi-peak limit; Blue plots - Peak detector scan plots.

Test in idle mode. Horizontal(30MHz -1GHz)



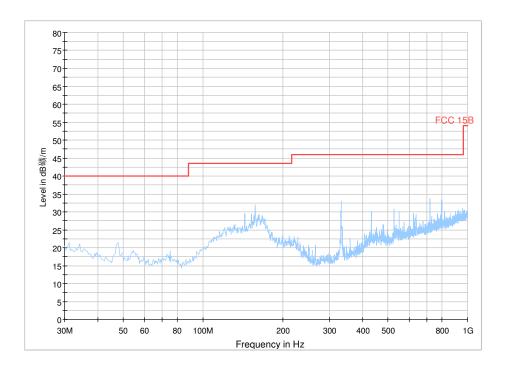
| Frequency | Actual Lecel QP | Limit | Margin |
|-----------|--------------------|----------|--------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) |
| 30.00 | * | 40.0 | * |
| 100.00 | * | 43.5 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

[&]quot;*" means the emission level is 6dB lower than the relevant limit.

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Vertical (30MHz -1GHz):



| Frequency | Actual Lecel QP | Limit | Margin |
|-----------|--------------------|----------|--------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) |
| 30.00 | * | 40.0 | * |
| 100.00 | * | 43.5 | * |
| 160.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 800.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

[&]quot;*" means the emission level is 6dB lower than the relevant limit.

SGS-CSTC Standards

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8.2 Conducted Emissions

Test Requirement: CFR 47 part 15.107 Test Method: ANSI C63.4:2003

Test Date: Apr 15, 2011

Frequency Range: 150kHz to 30MHz

Class: Class B

Limit:

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | | |
|-----------------------------|------------------------|------------|--|
| | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

^{*} Decreases with the logarithm of the frequency.

Result: PASS

8.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 45% RH Atmospheric Pressure: 1010 mbar

EUT Operation: Test EUT connected with laptop in idle mode.

8.2.2 Test Result and Measurement Data

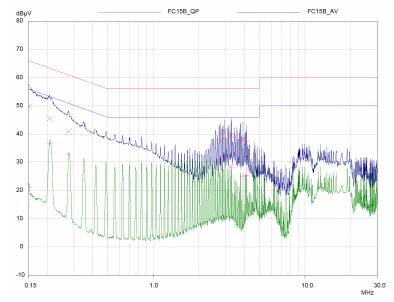
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Note: Blue limit line - AV limit, Red limit line - Quasi-peak limit; Blue plots - Peak detector scan plots, Green plots - AV detector scan plots.

Test in idle mode.

L Line(for the adapter of the laptop):



| | | Final | Measurement | Result |
|--|--|-------|-------------|--------|
|--|--|-------|-------------|--------|

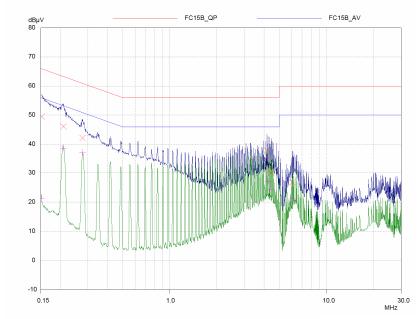
| Frequency | QP Level | QP Limit | QP Delta |
|-----------|----------|----------|----------|
| MHz | dΒμV | dΒμV | dB |
| | | | |
| 0.1518 | 49.76 | 65.90 | 16.14 |
| 0.20726 | 45.52 | 63.31 | 17.79 |
| 0.27627 | 40.88 | 60.93 | 20.05 |
| 2.7872 | 37.62 | 56.00 | 18.38 |
| 2.92397 | 41.04 | 56.00 | 14.96 |
| 3.26977 | 39.48 | 56.00 | 16.52 |
| 3.89763 | 38.26 | 56.00 | 17.74 |
| 4.10524 | 36.76 | 56.00 | 19.24 |
| | | | |
| | | | |
| Frequency | AV Level | AV Limit | AV Delta |
| MHz | dΒμV | dΒμV | dB |
| | | | |
| 0.1518 | 21.13 | 55.90 | 34.77 |
| 0.20726 | 36.76 | 53.31 | 16.55 |
| 0.27627 | 32.50 | 50.93 | 18.43 |
| 2.7872 | 30.74 | 46.00 | 15.26 |
| 2.92397 | 31.55 | 46.00 | 14.45 |
| 3.26977 | 27.95 | 46.00 | 18.05 |
| 3.89763 | 24.72 | 46.00 | 21.28 |
| 4.10524 | 25.41 | 46.00 | 20.59 |
| | | | |

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N Line(for the adapter of the laptop):



Final Measurement Results

| Frequency | QP Level | QP Limit | QP Delta |
|---|---|---|---|
| MHz | dΒμV | dΒμV | dB |
| | | | |
| 0.1518 | 49.50 | 65.90 | 16.40 |
| 0.20892 | 46.14 | 63.25 | 17.11 |
| 0.27738 | 42.16 | 60.89 | 18.73 |
| 4.17131 | 37.94 | 56.00 | 18.06 |
| 4.23846 | 32.52 | 56.00 | 23.48 |
| 4.44645 | 29.98 | 56.00 | 26.02 |
| 6.04657 | 26.82 | 60.00 | 33.18 |
| | | | |
| | | | |
| | | | |
| Frequency | AV Level | AV Limit | AV Delta |
| Frequency MHz | AV Level dΒμV | AV Limit dΒμV | AV Delta dB |
| | | , <u>-</u> | , , , , , , , |
| | | , <u>-</u> | , , , , , , , |
| MHz | dΒμV | dΒμV | dB |
| MHz 0.1518 | dBμV 21.18 | dBμV 55.90 | dB 34.72 |
| MHz 0.1518 0.20892 | dBμV 21.18 38.63 | dBμV 55.90 53.25 | dB 34.72 14.62 |
| MHz 0.1518 0.20892 0.27738 | dBμV 21.18 38.63 37.14 | dBμV 55.90 53.25 50.89 | dB 34.72 14.62 13.75 |
| MHz 0.1518 0.20892 0.27738 4.17131 | dBμV 21.18 38.63 37.14 35.03 | dBμV 55.90 53.25 50.89 46.00 | dB 34.72 14.62 13.75 10.97 |
| MHz 0.1518 0.20892 0.27738 4.17131 4.23846 | dBμV 21.18 38.63 37.14 35.03 27.10 | dBμV 55.90 53.25 50.89 46.00 46.00 | dB 34.72 14.62 13.75 10.97 18.90 |

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9 EQUIPMENT UNDER TEST PICTURES

9.1.1 Radiated Emission Test Setup



9.1.2 Conductet Emission Test Setup



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9.1.3 EUT Constructional Details





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End of Report~