



**Underwriters  
Laboratories UL Japan, Inc.**

Test report No. : 27KE0198-HO-A  
Page : 1 of 75  
Issued date : September 7, 2007  
FCC ID : S4JS1613-01A

## **RADIO TEST REPORT**

**Test Report No. : 27KE0198-HO-A**

**Applicant** : NEC INFRONTIA CORPORATION

**Type of Equipment** : Mobile Terminal EX

**Model No.** : S1613-01A

**FCC ID** : S4JS1613-01A

**Test standard** : FCC Part 15 Subpart C 2007  
Section 15.207, Section 15.247

**Test Result** : Complied

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the above regulation.
4. The test results in this report are traceable to the national or international standards.

**Date of test:** June 25 to August 22, 2007

**Tested by:**

  
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**NVLAP**<sup>®</sup>  
NVLAP LAB CODE: 200572-0

This laboratory is accredited by the NVLAP LAB CODE 200572-0, U.S.A. The tests reported herein have been performed in accordance with its terms of accreditation.  
\*As for the range of Accreditation in NVLAP, you may refer to the WEB address, <http://uljapan.co.jp/emc/nvlap.htm>

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## SECTION 1: Client information

Company Name : NEC INFRONTIA CORPORATION  
 Address : 2-6-1 Kitamikata, Takatsu-Ku, Kawasaki 213-8511, Japan  
 Telephone Number : +81-44-820-3881  
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 Contact Person : Yoshihiro Hagiwara

## SECTION 2: Equipment under test (E.U.T.)

### 2.1 Identification of E.U.T.

Type of Equipment : Mobile Terminal EX  
 Model No. : S1613-01A  
 Serial No. : #9 used for Radiated spurious emission above 1GHz (11b & 11g, Receiving)  
#10 used for all other tests  
 Rating : DC12V (AC Adapter input: AC100V-240V)  
 Country of Manufacture : Japan  
 Receipt Date of Sample : June 22, 2007  
 Condition of EUT : Production prototype  
(Not for Sale: This sample is equivalent to mass-produced items.)  
 Modification of EUT : No modification by the test lab.

### 2.2 Product Description

Model No: S1613-01A (referred to as the EUT in this report) is the Mobile Terminal EX.

Clock frequency : 1GHz (CPU), 40MHz (Wireless LAN port)

| Equipment Type         | Transceiver            |                   |                           |  |  |
|------------------------|------------------------|-------------------|---------------------------|--|--|
| Frequency of Operation | 11b/11g                | 2412MHz - 2462MHz |                           |  |  |
|                        | 11a                    | Low               | 5180MHz - 5240MHz *1)     |  |  |
|                        |                        | Mid               | 5260MHz - 5320MHz *1) *2) |  |  |
|                        |                        | Add               | 5500MHz - 5700MHz *1) *2) |  |  |
|                        |                        | Upper             | 5745MHz - 5805MHz *1)     |  |  |
|                        |                        |                   | 5825MHz                   |  |  |
| Type of Modulation     | 11b                    | DSSS              |                           |  |  |
|                        |                        | DBPSK             | : 1Mbps                   |  |  |
|                        |                        | DQPSK             | : 2Mbps                   |  |  |
|                        |                        | CCK               | : 5.5Mbps, 11Mbps         |  |  |
|                        | 11a/11g                | OFDM              |                           |  |  |
|                        |                        | BPSK              | : 6Mbps, 9Mbps            |  |  |
|                        |                        | QPSK              | : 12Mbps, 18Mbps          |  |  |
|                        |                        | 16QAM             | : 24Mbps, 36Mbps          |  |  |
|                        |                        | 64QAM             | : 48Mbps, 54Mbps          |  |  |
| Channel spacing        | 11b/11g                | 5MHz              |                           |  |  |
|                        | 11a                    | 20MHz             |                           |  |  |
| Power Supply (inner)   | DC3.3V, DC1.8V         |                   |                           |  |  |
| Antenna Type           | Internal antenna       |                   |                           |  |  |
| Antenna Connector Type | U.FL (ANT-A and ANT-B) |                   |                           |  |  |
| Antenna Gain           | 0dBi                   |                   |                           |  |  |

\*1) Refer to 27KE0198-HO-B, FCC Part 15E(FCC 15.407) report.

\*2) Refer to 27KE0198-HO-C, FCC Part 15 Subpart E (FCC 15.407 DFS test only) report.

Remarks : This Wireless Module consists of 1 chip each of 2.4GHz band and 5GHz band.

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## **SECTION 3: Test specification, procedures & results**

### **3.1 Test Specification**

Test Specification : FCC Part15 Subpart C: 2007

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators  
Section 15.207 Conducted limits  
Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz

#### **FCC 15.31 (e)**

This EUT provides stable voltage(DC3.3V, 1.8V) constantly to RF Module regardless of input voltage. Therefore, this EUT complies with the requirement.

#### **FCC Part 15.203 Antenna requirement**

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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### 3.2 Procedures and results

| No. | Item                      | Test Procedure  | Specification   | Remarks                | Deviation | Worst margin   | Results  |
|-----|---------------------------|---|---|------------------------|-----------|--|----------|
| 1   | Conducted emission        | FCC: ANSI C63.4:2003<br>7. AC powerline conducted emission measurements<br>IC: RSS-Gen 7.2.2        | FCC: Section 15.207<br>IC: RSS-Gen 7.2.2                              | -                      | N/A       | 6.8dB<br>1.25390MHz, AV, N   | Complied |
| 2   | 6dB Bandwidth             | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: RSS-Gen 4.6.2               | FCC: Section 15.247(a)(2)<br>IC: RSS-210 A8.2(a)                      | Conducted              | N/A       |  | Complied |
| 3   | Maximum Peak Output Power | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: RSS-Gen 4.8                 | FCC: Section 15.247(b)(3)<br>IC: RSS-210 A8.4(4)                      | Conducted              | N/A       |  | Complied |
| 4   | Restricted Band Edges     | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                           | FCC: Section 15.247 (d)<br>IC: RSS-210 A8.5                           | Conducted/<br>Radiated | N/A       | See data.  | Complied |
| 5   | Power Density             | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                           | FCC: Section 15.247 (e)<br>IC: RSS-210 A8.2(b)                        | Conducted              | N/A       |  | Complied |
| 6   | Spurious Emission         | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: RSS-Gen 4.9<br>RSS-Gen 4.10 | FCC: Section 15.247(d)<br>IC: RSS-210 A8.5<br>RSS-Gen 7.2.1 and 7.2.3 | Conducted/<br>Radiated | N/A       | [Tx]<br>0.5dB<br>90.007MHz<br>Horizontal<br>[Rx]<br>0.1dB<br>47.801MHz<br>Vertical | Complied |

Note: UL Japan, Inc.'s EMI Work Procedures No.QPM05 and QPM15.

\*These tests were also referred to "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

\*These tests were performed without any deviations from test procedure except for additions or exclusions.

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### 3.3 Addition to standards

| No. | Item                    | Test Procedure | Specification | Remarks   | Deviation | Worst margin | Results |
|-----|-------------------------|----------------|---------------|-----------|-----------|--------------|---------|
| 1   | 99% Occupied Band Width | RSS-Gen 4.6.1  | -             | Conducted | N/A       | N/A          | N/A     |

### 3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

#### Conducted Emission

The measurement uncertainty for this test is  $\pm 2.66$ dB.

The data listed in this test report has enough margin, more than the site margin.

#### Spurious Emission (Radiated)

The measurement uncertainty for this test using Biconical antenna is  $\pm 4.59$ dB(3m).

The measurement uncertainty for this test using Logperiodic antenna is  $\pm 4.62$ dB(3m).

The measurement uncertainty for this test using Horn antenna is  $\pm 5.27$ dB.

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

#### Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty for this test is  $\pm 3.0$ dB.

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### 3.5 Test Location

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|                            | FCC Registration Number | IC Registration Number | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Other rooms            |
|----------------------------|-------------------------|------------------------|----------------------------|--|------------------------|
| No.1 semi-anechoic chamber | 313583                  | IC4247                 | 19.2 x 11.2 x 7.7m         | 7.0 x 6.0m   | No.1 Power source room |
| No.2 semi-anechoic chamber | 655103                  | IC4247-2               | 7.5 x 5.8 x 5.2m           | 4.0 x 4.0m   | -                      |
| No.3 semi-anechoic chamber | 148738                  | IC4247-3               | 12.0 x 8.5 x 5.9m          | 6.8 x 5.75m  | No.3 Preparation room  |
| No.3 shielded room         | -                       | -                      | 4.0 x 6.0 x 2.7m           | N/A  | -                      |
| No.4 semi-anechoic chamber | 134570                  | IC4247-4               | 12.0 x 8.5 x 5.9m          | 6.8 x 5.75m  | No.4 Preparation room  |
| No.4 shielded room         | -                       | -                      | 4.0 x 6.0 x 2.7m           | N/A  | -                      |
| No.5 semi-anechoic chamber | -                       | -                      | 6.0 x 6.0 x 3.9m           | 6.0 x 6.0m   | -                      |
| No.6 shielded room         | -                       | -                      | 4.0 x 4.5 x 2.7m           | 4.75 x 5.4 m   | -                      |
| No.6 measurement room      | -                       | -                      | 4.75 x 5.4 x 3.0m          | 4.75 x 4.15 m  | -                      |
| No.7 shielded room         | -                       | -                      | 4.7 x 7.5 x 2.7m           | 4.7 x 7.5m   | -                      |
| No.8 measurement room      | -                       | -                      | 3.1 x 5.0 x 2.7m           | N/A  | -                      |

\* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

### 3.6 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

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## **SECTION 4: Operation of E.U.T. during testing**

### **4.1 Operating Modes**

The mode used for test :

WLAN Transmitting (Tx) 11b mode (Payload: PN9)

- Low Channel : 2412MHz(Ch1)
- Mid Channel : 2437MHz(Ch6)
- High Channel : 2462MHz(Ch11)

WLAN Transmitting (Tx) 11g mode (Payload: PN9)

- Low Channel : 2412MHz(Ch1)
- Mid Channel : 2437MHz(Ch6)
- High Channel : 2462MHz(Ch11)

WLAN Transmitting (Tx) 11a mode (Payload: PN9)

- High Channel : 5825MHz(Ch165)

WLAN Receiving (Rx) 11b mode

- Mid Channel : 2437MHz(Ch6)

WLAN Receiving (Rx) 11g mode

- Mid Channel : 2437MHz(Ch6)

WLAN Receiving (Rx) 11a mode

- High Channel : 5825MHz(Ch165)

Conditions:

- 1) Data Rate : 11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps  
11g/11a: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps,  
48Mbps, 54Mbps
- 2) Antenna Connector: ANT-A, ANT-B

As a result of preliminary test, the formal test was performed under the worst conditions of the above modes.  
See the below table for the details of the worst conditions.

Worst Conditions:

| Test Item | IEEE802.11b                                   | IEEE802.11g/11a                               |
|-----------|---|---|
| All tests | Data Rate: 11Mbps<br>Antenna Connector: ANT-A | Data Rate: 54Mbps<br>Antenna Connector: ANT-A |

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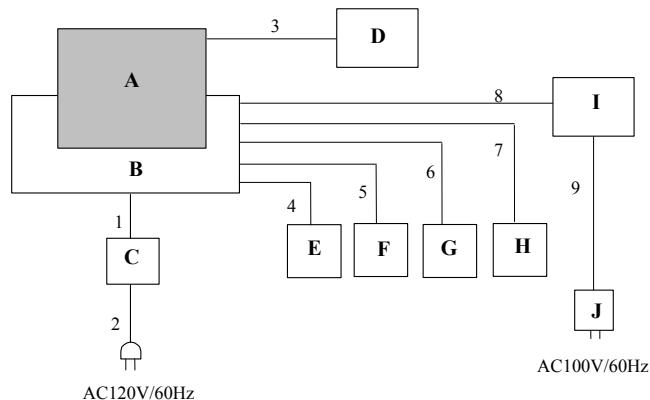
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## 4.2 Configuration and peripherals

### 1) Conducted emission and Radiated spurious emission



\* Cabling and setup were taken into consideration and test data was taken under worse case conditions.

### Description of EUT and Support equipment

| No. | Item                       | Model number    | Serial number     | Manufacturer  | Remarks |
|-----|----------------------------|-----------------|-------------------|---------------|---------|
| A   | Mobile Terminal EX         | S1613-01A       | #9 *1)<br>#10 *2) | NEC INFRONTIA | EUT     |
| B   | Single Docking Station EX  | 3024A APX       | 000109022593      | NEC INFRONTIA | -       |
| C   | AC Adaptor                 | SQN36W12P-00    | 0403A0000176G     | NAGANO        | -       |
| D   | Headphone                  | LT-100          | -                 | Panasonic     | -       |
| E   | USB Keyboard               | TK-U12FY        | 040107169         | ELECOM        | -       |
| F   | Mouse                      | M-UB48          | LZE02650788       | Logitech      | -       |
| G   | Ten key                    | TK-BT3          | 0609200440        | ELECOM        | -       |
| H   | External Floppy Disk Drive | CF-VFDU03       | 0322374           | Panasonic     | -       |
| I   | Wireless LAN access point  | CG-WLBARAG2     | 1072210051202516  | Corega        | -       |
| J   | AC Adaptor                 | MT18-3053280-A1 | -                 | Corega        | -       |

\*1) Used for Radiated spurious emission above 1GHz, Receiving mode 11b & 11g only.

\*2) Used for all other tests.

### List of cables used

| No. | Name        | Length (m) | Shield     |            |
|-----|-------------|------------|------------|------------|
|     |             |            | Cable      | Connector  |
| 1   | DC Cable    | 1.2        | Unshielded | Unshielded |
| 2   | AC Cable    | 1.8        | Unshielded | Unshielded |
| 3   | Audio Cable | 3.0        | Unshielded | Unshielded |
| 4   | USB Cable   | 1.4        | Shielded   | Shielded   |
| 5   | USB Cable   | 0.8        | Shielded   | Shielded   |
| 6   | USB Cable   | 0.8        | Shielded   | Shielded   |
| 7   | USB Cable   | 0.3        | Shielded   | Shielded   |
| 8   | LAN Cable   | 2.0        | Unshielded | Unshielded |
| 9   | DC Cable    | 1.8        | Unshielded | Unshielded |

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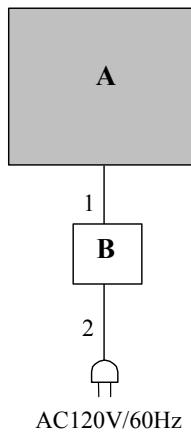
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2) Antenna terminal conducted test



\* Cabling and setup were taken into consideration and test data was taken under worse case conditions.

**Description of EUT and Support equipment**

| No. | Item               | Model number     | Serial number | Manufacturer  | Remarks |
|-----|--------------------|------------------|---------------|---------------|---------|
| A   | Mobile Terminal EX | S1613-01A        | #10           | NEC INFRONTIA | EUT     |
| B   | AC Adaptor         | S1596-04/ADPI004 | 0604B0002947G | NEC INFRONTIA | -       |

**List of cables used**

| No. | Name     | Length (m) | Shield     |            |
|-----|----------|------------|------------|------------|
|     |          |            | Cable      | Connector  |
| 1   | DC Cable | 1.2        | Unshielded | Unshielded |
| 2   | AC Cable | 1.8        | Unshielded | Unshielded |

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## **SECTION 5: Conducted Emission**

### **Test Procedure and conditions**

EUT was placed on a urethane platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

#### For the tests on EUT with other peripherals (as a whole system)

I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

|                          |   |
|--------------------------|---|
| <b>Detector</b>          | : quasi-peak and average detector (IF BW 9 kHz) |
| <b>Measurement range</b> | : 0.15-30MHz                                    |
| <b>Test data</b>         | : APPENDIX 2                                    |
| <b>Test result</b>       | : Pass  |

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## **SECTION 6: Spurious Emission**

### **[Conducted] Test Procedure**

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

**Test data : APPENDIX 2**  
**Test result : Pass**

### **[Radiated]**

#### **Test Procedure**

EUT was placed on a urethane platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz), 1m(Upper 10GHz), 0.3m(Upper 30GHz).

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

**20dBc was applied to the frequency over the limit of FCC 15.209 / Table 2 of RSS-210 2.7 (IC) and outside the restricted band of FCC15.205 / Table 1 of RSS-210 2.7 (IC).**

| Frequency                | Below 1GHz   | Above 1GHz   |
|--------------------------|--|--|
| Instrument used          | Test Receiver / Spectrum Analyzer                              | Spectrum Analyzer  |
| Detector<br>IF Bandwidth | QP: BW 120kHz(T/R)<br>20dBc : RBW: 100kHz<br>VBW: 300kHz (S/A) | PK: RBW:1MHz/VBW: 1MHz<br>AV: RBW:1MHz/VBW:10Hz<br>20dBc : RBW:100kHz/VBW:300kHz |

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

**Test data : APPENDIX 2**  
**Test result : Pass**

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## **SECTION 7: Bandwidth**

### **Test Procedure**

The bandwidth was measured with a spectrum analyzer connected to the antenna port.

**Test data** : APPENDIX 2  
**Test result** : Pass

## **SECTION 8: Maximum Peak Output Power**

### **Test Procedure**

The Maximum Peak Output Power was measured with a power meter (tested bandwidth: 50MHz) connected to the antenna port.

It was measured based on "Power Output Option 1" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

**Test data** : APPENDIX 2  
**Test result** : Pass

## **SECTION 9: Peak Power Density**

**[Conducted]**

### **Test Procedure**

The Peak Power Density was measured with a spectrum analyzer connected to the antenna port.

It was measured based on "PSD Option 1" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

**Test data** : APPENDIX 2  
**Test result** : Pass

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