



## SAR TEST REPORT

Test Report No. : 27JE0154-HO-C-R1

Applicant : Nagano Japan Radio Co., Ltd.  
Type of Equipment : Wireless LAN Module  
Model No. : NJT-517  
FCC ID : D7LNJT517  
Test standard : FCC47CFR 2.1093  
FCC OET Bulletin 65, Supplement C  
Test Result : Complied

Max. SAR Value (IEEE 802.11b/g)

: 0.858W/kg (2462MHz)

1. This test report shall not be reproduced except 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 standard(s). We hereby certify that the data contain a true representation of the SAR profile.
4. The test results in this test report are traceable to the national or international standards.
5. Original test report number of this report is 27JE0154-HO-C.

Date of test:

August 26, 27, 2007

Tested by:

Hisayoshi Sato  
EMC Services

Approved by :

Tetsuo Maeno  
Site Manager of EMC Services



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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MF060b (18.06.07)

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## **SECTION 1: Client information**

Company Name : Nagano Japan Radio Co., Ltd.  
Address : 1163 Inasato-machi, Nagano-city 381-2288 Japan  
Telephone Number : +81-26-285-1093  
Facsimile Number : +81-26-285-1037  
Contact Person : Takaaki Fukaya

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

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

Type of Equipment : Wireless LAN Module  
Model No. : NJT-517  
Serial No. : 0013E09DDE77  
Rating : DC3.3V  
Country of Manufacture : Japan  
Receipt Date of Sample : August 7, 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: NJT-517, referred as the EUT in this report, is the Wireless LAN Module.  
It is integrated into a Barcode Handy Terminal..  
Clock Frequency : 38.4MHz

|  |  |           |
|--|--|-----------|
| Equipment Type                           | Transceiver  |           |
| Frequency band                           | Lower limit  | 2400MHz   |
|  | Upper limit  | 2483.5MHz |
| Frequency of Operation                   | 2412-2462MHz   |           |
| Bandwidth & Channel spacing              | 20MHz & 5MHz   |           |
| Type of Modulation                       | DSSS (DBPSK, DQPSK, CCK)<br>OFDM (BPSK, QPSK, 16QAM,<br>64QAM) |           |
| Antenna Type                             | Inverted F, 1/4 $\lambda$                                      |           |
| Antenna Connector Type                   | W. FL Plug   |           |
| Antenna Gain                             | 3.93dBi max  |           |
| ITU code                                 | G1D / D1D  |           |
| Power Supply                             | DC 3.3V  |           |
| Maximum Output Power<br>(Peak:FCC15.247) | 23.77dBm (238.23mW)  |           |

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## **SECTION 3 : Test standard information**

### **3.1 Requirements for compliance testing defined by the FCC**

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g for an uncontrolled environment and 8.0 mW/g for an occupational/controlled environment as recommended by the ANSI/IEEE standard C95.1-1992. According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

**1** Specific Absorption Rate (SAR) is a measure of the rate of energy absorption due to exposure to an RF transmitting source (wireless portable device).

**2** IEEE/ANSI Std. C95.1-1992 limits are used to determine compliance with FCC ET Docket 93-62.

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### 3.2 Exposure limit

#### (A) Limits for Occupational/Controlled Exposure (W/kg)

| Spatial Average<br>(averaged over the whole body) | Spatial Peak<br>(averaged over any 1g of tissue) | Spatial Peak<br>(hands/wrists/feet/ankles averaged<br>over 10g) |
|---|--|---|
| 0.4   | 8.0  | 20.0  |

#### (B) Limits for General population/Uncontrolled Exposure (W/kg)

| Spatial Average<br>(averaged over the whole body) | Spatial Peak<br>(averaged over any 1g of tissue) | Spatial Peak<br>(hands/wrists/feet/ankles averaged<br>over 10g) |
|---|--|---|
| 0.08  | 1.6  | 4.0   |

**Occupational/Controlled Environments:** are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

**General Population/Uncontrolled Environments:** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**NOTE:GENERAL POPULATION/UNCONTROLLED EXPOSURE  
SPATIAL PEAK(averaged over any 1g of tissue) LIMIT  
1.6 W/kg**

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## **SECTION 4 : Test result**

### **4.1 Result of Max. SAR value**

**Max. SAR Value (IEEE 802.11b/g) : 0.858W/kg (2462MHz)**

### **4.2 Test Location**

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## **SECTION 5 : Operation of E.U.T. during testing**

### **5.1 Confirmation before SAR testing**

#### **Correlation of EMC power and SAR power (WLAN IEEE802.11b/g)**

##### **Peak Power test**

As for the peak power, the data of EMC test(August 21, 2007) is shown as a reference data.  
The result is shown in section 7.1.

##### **Average Power test**

It was checked that the antenna port power is correlated within 0~+5% (FCC requirements) at EMC test result (August 21, 2007).

### **5.2 Confirmation after SAR testing**

It was checked that the powerdrift is within  $\pm 5\%$  in the evaluation procedure of SAR testing.  
The result is shown in APPENDIX 2.

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### **5.3 Operating modes for SAR testing**

#### **5.3.1 Setting of EUT**

1. IEEE 802.11b mode (2412-2462 band)

Tx frequency band : 2412-2462MHz  
Channel : 1ch(2412MHz), 6ch(2437MHz), 11ch(2462MHz)  
Modulation : DSSS (DBPSK, DQPSK, CCK)  
Crest factor\* : 1.0

2. IEEE 802.11g mode (2412-2462 band)

Tx frequency band : 2412-2462MHz  
Channel : 1ch(2412MHz), 6ch(2437MHz), 11ch(2462MHz)  
Modulation : OFDM (BPSK, QPSK, 16QAM, 64QAM)  
Crest factor\* : 1.0

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### 5.3.2 Measurement procedure

#### 1. IEEE 802.11b

The CCK (11Mbps) of the highest data rate and the highest average power\*.

Step1. The searching for the worst position

Step2. The test for the Low and High channels

This test was performed at the worst conditions of Step2 .

#### 2. IEEE 802.11g

Step3. The searching for the worst modulation

The data rate in the higher average power\* each modulation was decided, then the worst modulation was searched in the SAR testing.

Step4. The searching for the worst position

This test was performed at the worst modulation of Step3.

Step5. The test for the Low and High channels

This test was performed at the worst conditions of Step4 .

#### 3. Change distance between EUT and SAM Twin Phantom

Step6. Change separation

The measurement was performed with the distance, 5mm,10mm and 15mm to check if the shortest distance may not have the worst value at the conditions of the highest SAR value.

\* Refer to Section 7.2

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### 5.3.3 Test setup of EUT

When users operate the EUT, it could be considered to touch or get close to their bodies. In order to assume this situation, we performed the test at the following positions. Please refer to "APPENDIX 1" for more details.

(1) Top:

The test was performed in touch with top surface to the flat phantom.

(2) Front:

The test was performed in touch with front surface to the flat phantom.

(3) Rear:

The test was performed in touch with rear surface to the flat phantom.

(4) Left side:

The test was performed in touch with left side surface to the flat phantom.

(5) Right side:

The test was performed in touch with right side surface to the flat phantom.

(6) Top (separation 5mm) :

The measurement opened 5mm distance between the EUT and the flat phantom.

(7) Top (separation 10mm) :

The measurement opened 10mm distance between the EUT and the flat phantom.

(8) Top (separation 15mm) :

The measurement opened 15mm distance between the EUT and the flat phantom.

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## **SECTION 6 : Test surrounding**

The uncertainty budget has been determined for the DASY4 measurement system according to the SPEAG documents[6][7] and is given in the following Table.

| Error Description                    | Uncertainty value ± % | Probability distribution | divisor | (ci) 1g               | Standard Uncertainty (1g) | vi or veff |
|--------------------------------------|-----------------------|--------------------------|---------|-----------------------|---------------------------|------------|
| <b>Measurement System</b>            |                       |                          |         |                       |                           |            |
| Probe calibration                    | ±6.8                  | Normal                   | 1       | 1                     | ±6.8                      | ∞          |
| Axial isotropy of the probe          | ±4.7                  | Rectangular              | √3      | (1-cp) <sup>1/2</sup> | ±1.9                      | ∞          |
| Spherical isotropy of the probe      | ±9.6                  | Rectangular              | √3      | (cp) <sup>1/2</sup>   | ±3.9                      | ∞          |
| Boundary effects                     | ±2.0                  | Rectangular              | √3      | 1                     | ±1.2                      | ∞          |
| Probe linearity                      | ±4.7                  | Rectangular              | √3      | 1                     | ±2.7                      | ∞          |
| Detection limit                      | ±1.0                  | Rectangular              | √3      | 1                     | ±0.6                      | ∞          |
| Readout electronics                  | ±0.3                  | Normal                   | 1       | 1                     | ±0.3                      | ∞          |
| Response time                        | ±0.8                  | Rectangular              | √3      | 1                     | ±0.5                      | ∞          |
| Integration time                     | ±2.6                  | Rectangular              | √3      | 1                     | ±1.5                      | ∞          |
| RF ambient Noise                     | ±3.0                  | Rectangular              | √3      | 1                     | ±1.7                      | ∞          |
| RF ambient Reflections               | ±3.0                  | Rectangular              | √3      | 1                     | ±1.7                      | ∞          |
| Probe Positioner                     | ±0.8                  | Rectangular              | √3      | 1                     | ±0.5                      | ∞          |
| Probe positioning                    | ±9.9                  | Rectangular              | √3      | 1                     | ±5.7                      | ∞          |
| Max.SAR Eval.                        | ±4.0                  | Rectangular              | √3      | 1                     | ±2.3                      | ∞          |
| <b>Test Sample Related</b>           |                       |                          |         |                       |                           |            |
| Device positioning                   | ±2.9                  | Normal                   | 1       | 1                     | ±2.9                      | 19         |
| Device holder uncertainty            | ±3.6                  | Normal                   | 1       | 1                     | ±3.6                      | 7          |
| Power drift                          | ±5.0                  | Rectangular              | √3      | 1                     | ±5.8                      | ∞          |
| <b>Phantom and Setup</b>             |                       |                          |         |                       |                           |            |
| Phantom uncertainty                  | ±4.0                  | Rectangular              | √3      | 1                     | ±2.3                      | ∞          |
| Liquid conductivity (target)         | ±5.0                  | Rectangular              | √3      | 0.64                  | ±1.8                      | ∞          |
| Liquid conductivity (meas.)          | ±5.0                  | Rectangular              | 1       | 0.64                  | ±3.2                      | ∞          |
| Liquid permittivity (target)         | ±5.0                  | Rectangular              | √3      | 0.6                   | ±1.7                      | ∞          |
| Liquid permittivity (meas.)          | ±5.0                  | Rectangular              | 1       | 0.6                   | ±3.0                      | ∞          |
| <b>Combined Standard Uncertainty</b> |                       |                          |         |                       |                           |            |
|                                      |                       |                          |         |                       | <b>±13.48</b>             |            |
| <b>Expanded Uncertainty (k=2)</b>    |                       |                          |         |                       |                           |            |
|                                      |                       |                          |         |                       | <b>±26.96</b>             |            |

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## **SECTION 7 : Confirmation before testing**

### **7.1 Correlation of EMC power and SAR power**

#### **7.1.1 EMC power**

This data is reference data of EMC test. (Report No. 27JE0154-HO-A-R1)

#### **FCC15.247 Maximum Output Peak Power**

Date: August 21, 2007

##### **[IEEE802.11b 11Mbps] Peak Power**

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|
|      |                |                         |                       |                | [dBm]  | [mW]  |
| Low  | 2412.0         | 7.55                    | 1.18                  | 10.02          | 18.75  | 74.99 |
| Mid  | 2437.0         | 8.40                    | 1.18                  | 10.02          | 19.60  | 91.20 |
| High | 2462.0         | 8.70                    | 1.18                  | 10.02          | 19.90  | 97.72 |

##### **[IEEE802.11g 18Mbps] Peak Power**

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |        |
|------|----------------|-------------------------|-----------------------|----------------|--------|--------|
|      |                |                         |                       |                | [dBm]  | [mW]   |
| Low  | 2412.0         | 11.55                   | 1.18                  | 10.02          | 22.75  | 188.36 |
| Mid  | 2437.0         | 12.47                   | 1.18                  | 10.02          | 23.67  | 232.81 |
| High | 2462.0         | 12.57                   | 1.18                  | 10.02          | 23.77  | 238.23 |

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

#### **Reference data for SAR testing**

Date: August 21, 2007

##### **[IEEE802.11b 11Mbps] Average Power**

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|
|      |                |                         |                       |                | [dBm]  | [mW]  |
| Low  | 2412.0         | 4.92                    | 1.18                  | 10.02          | 16.12  | 40.93 |
| Mid  | 2437.0         | 5.74                    | 1.18                  | 10.02          | 16.94  | 49.43 |
| High | 2462.0         | 6.07                    | 1.18                  | 10.02          | 17.27  | 53.33 |

##### **[IEEE802.11g 18Mbps] Average Power**

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|
|      |                |                         |                       |                | [dBm]  | [mW]  |
| Low  | 2412.0         | 4.34                    | 1.18                  | 10.02          | 15.54  | 35.81 |
| Mid  | 2437.0         | 5.30                    | 1.18                  | 10.02          | 16.50  | 44.67 |
| High | 2462.0         | 5.74                    | 1.18                  | 10.02          | 16.94  | 49.43 |

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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### 7.1.2 SAR power

Date: August 26, 2007

#### [IEEE802.11b 11Mbps] Average Power

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|
|      |                |                         |                       |                | [dBm]  | [mW]  |
| Low  | 2412.0         | 5.11                    | 1.18                  | 10.02          | 16.31  | 42.76 |
| Mid  | 2437.0         | 5.91                    | 1.18                  | 10.02          | 17.11  | 51.40 |
| High | 2462.0         | 6.12                    | 1.18                  | 10.02          | 17.32  | 53.95 |

#### [IEEE802.11g 18Mbps] Average Power

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|
|      |                |                         |                       |                | [dBm]  | [mW]  |
| Low  | 2412.0         | 4.45                    | 1.18                  | 10.02          | 15.65  | 36.73 |
| Mid  | 2437.0         | 5.45                    | 1.18                  | 10.02          | 16.65  | 46.24 |
| High | 2462.0         | 5.81                    | 1.18                  | 10.02          | 17.01  | 50.23 |

#### [IEEE802.11g 24Mbps] Average Power

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|
|      |                |                         |                       |                | [dBm]  | [mW]  |
| Low  | 2412.0         | 4.24                    | 1.18                  | 10.02          | 15.44  | 34.99 |
| Mid  | 2437.0         | 4.88                    | 1.18                  | 10.02          | 16.08  | 40.55 |
| High | 2462.0         | 5.42                    | 1.18                  | 10.02          | 16.62  | 45.92 |

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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7.2 Reference data of SAR test (Data rate determination)

Date: August 26, 2007

| IEEE 80.2 11b Average power |                  |             |                       |                 |                  |              |
|-----------------------------|------------------|-------------|-----------------------|-----------------|------------------|--------------|
| Modulation                  | Data rate [Mbps] | Freq. [MHz] | P/M(AV) Reading [dBm] | Cable Loss [dB] | Atten. Loss [dB] | Result [dBm] |
| DBPSK                       | 1                | 2437        | 5.11                  | 1.18            | 10.02            | 16.31        |
| DQPSK                       | 2                | 2437        | 5.65                  | 1.18            | 10.02            | 16.85        |
| CCK                         | 5.5              | 2437        | 5.10                  | 1.18            | 10.02            | 16.30        |
| CCK                         | 11               | 2437        | <b>5.91</b>           | 1.18            | 10.02            | 17.11        |

| IEEE 80.2 11g Average power |                  |             |                       |                 |                  |              |
|-----------------------------|------------------|-------------|-----------------------|-----------------|------------------|--------------|
| Modulation                  | Data rate [Mbps] | Freq. [MHz] | P/M(AV) Reading [dBm] | Cable Loss [dB] | Atten. Loss [dB] | Result [dBm] |
| BPSK                        | 6                | 2437        | 4.98                  | 1.18            | 10.02            | 16.18        |
| BPSK                        | 9                | 2437        | 4.95                  | 1.18            | 10.02            | 16.15        |
| QPSK                        | 12               | 2437        | 5.11                  | 1.18            | 10.02            | 16.31        |
| QPSK                        | 18               | 2437        | <b>5.40</b>           | 1.18            | 10.02            | 16.60        |
| 16QAM                       | 24               | 2437        | 4.88                  | 1.18            | 10.02            | 16.08        |
| 16QAM                       | 36               | 2437        | 4.74                  | 1.18            | 10.02            | 15.94        |
| 64QAM                       | 48               | 2437        | 4.71                  | 1.18            | 10.02            | 15.91        |
| 64QAM                       | 54               | 2437        | 4.77                  | 1.18            | 10.02            | 15.97        |

Sample Calculation: Result = Reading + Cable Loss + Attenuator Loss

## SECTION 8 : Measurement results

### 8.1 SAR Measurement results

#### 8.1.1 IEEE 802.11 b/g SAR

Date : August 26, 2007 Measured By : Hisayoshi Sato  
Liquid Depth (cm) : 15.0 Model : NJT-517  
Parameters :  $\epsilon_r = 51.4$ ,  $\sigma = 2.01$  Serial No. : 0013E09DDE77  
Ambient temperature (deg.c.) : 25.0 Modulation : DSSS  
Relative Humidity (%) : 57 Crest factor : See to Section 7.2

Date : August 27, 2007 Measured By : Hisayoshi Sato  
Liquid Depth (cm) : 15.0 Model : NJT-517  
Parameters :  $\epsilon_r = 50.3$ ,  $\sigma = 2.04$  Serial No. : 0013E09DDE77  
Ambient temperature (deg.c.) : 25.0 Modulation : OFDM  
Relative Humidity (%) : 55 Crest factor : See to Section 7.2

| BODY SAR MEASUREMENT RESULTS                          |               |            |                 |                       |                 |                     |       |                             |              |
|---|---------------|------------|-----------------|-----------------------|-----------------|---------------------|-------|-----------------------------|--------------|
| Frequency   |               | Modulation | Phantom Section | EUT Set-up Conditions |                 | Liquid Temp.[deg.c] |       | SAR(1g)                     |              |
| Mode  | Channel [MHz] |            |                 | Position              | Separation [mm] | Before              | After | Maximum value of multi-peak |              |
| <b>Step 1. The searching for the worst position</b>   |               |            |                 |                       |                 |                     |       |                             |              |
| 11b mode  | 6             | 2437       | CCK(11Mbps)     | Flat                  | Top             | 0                   | 24.1  | 24.1                        | <b>0.570</b> |
|   | 6             | 2437       | CCK(11Mbps)     | Flat                  | Front           | 0                   | 24.1  | 24.1                        | <b>0.066</b> |
|   | 6             | 2437       | CCK(11Mbps)     | Flat                  | Rear            | 0                   | 24.0  | 24.0                        | <b>0.079</b> |
|   | 6             | 2437       | CCK(11Mbps)     | Flat                  | Left side       | 0                   | 24.0  | 24.0                        | <b>0.087</b> |
|   | 6             | 2437       | CCK(11Mbps)     | Flat                  | Right side      | 0                   | 24.0  | 24.0                        | <b>0.185</b> |
| <b>Step 2. The test for the Low and High channels</b> |               |            |                 |                       |                 |                     |       |                             |              |
|   | 1             | 2412       | CCK(11Mbps)     | Flat                  | Top             | 0                   | 24.2  | 24.2                        | <b>0.407</b> |
|   | 11            | 2462       | CCK(11Mbps)     | Flat                  | Top             | 0                   | 24.0  | 24.0                        | <b>0.858</b> |
| <b>Step 3. The searching for the worst modulation</b> |               |            |                 |                       |                 |                     |       |                             |              |
| 11g mode  | 6             | 2437       | BPSK(6Mbps)     | Flat                  | Top             | 0                   | 23.6  | 23.6                        | <b>0.356</b> |
|   | 6             | 2437       | QPSK(18Mbps)    | Flat                  | Top             | 0                   | 23.6  | 23.6                        | <b>0.541</b> |
|   | 6             | 2437       | 16QAM(24Mbps)   | Flat                  | Top             | 0                   | 23.6  | 23.6                        | <b>0.542</b> |
|   | 6             | 2437       | 64QAM(54Mbps)   | Flat                  | Top             | 0                   | 23.6  | 23.6                        | <b>0.229</b> |
| <b>Step 4. The searching for the worst position</b>   |               |            |                 |                       |                 |                     |       |                             |              |
| 11g mode  | 6             | 2437       | 16QAM(24Mbps)   | Flat                  | Front           | 0                   | 23.3  | 23.3                        | <b>0.033</b> |
|   | 6             | 2437       | 16QAM(24Mbps)   | Flat                  | Rear            | 0                   | 23.3  | 23.2                        | <b>0.037</b> |
|   | 6             | 2437       | 16QAM(24Mbps)   | Flat                  | Left side       | 0                   | 23.2  | 23.3                        | <b>0.087</b> |
|   | 6             | 2437       | 16QAM(24Mbps)   | Flat                  | Right side      | 0                   | 23.3  | 23.3                        | <b>0.210</b> |
| <b>Step 5. The test for the Low and High channels</b> |               |            |                 |                       |                 |                     |       |                             |              |
|   | 1             | 2412       | 16QAM(24Mbps)   | Flat                  | Top             | 0                   | 23.3  | 23.4                        | <b>0.259</b> |
|   | 11            | 2462       | 16QAM(24Mbps)   | Flat                  | Top             | 0                   | 23.4  | 23.4                        | <b>0.742</b> |
| <b>Step 6. Separation change</b>                      |               |            |                 |                       |                 |                     |       |                             |              |
| 11b mode  | 11            | 2462       | CCK(11Mbps)     | Flat                  | Top             | 5                   | 23.4  | 23.4                        | <b>0.309</b> |
|   | 11            | 2462       | CCK(11Mbps)     | Flat                  | Top             | 10                  | 23.4  | 23.4                        | <b>0.130</b> |
|   | 11            | 2462       | CCK(11Mbps)     | Flat                  | Top             | 15                  | 23.4  | 23.4                        | <b>0.071</b> |

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