# Test Report

| | |
|---|---|
| Product Name | Wireless LAN Card |
| Model No. | MS-6877 |
| FCC ID | I4L-MS6877 |

| | |
|---|---|
| Applicant | MICRO-STAR INTL Co., LTD. |
| Address | No. 69, Li-De St., Jung-He City, Taipei Hsien, Taiwan, R.O.C. |

| | |
|---|---|
| Date of Receipt | Mar. 16, 2006 |
| Issued Date | Sep. 22, 2008 |
| Report No. | 063L107-RF-US-P05V01 |

The Test Results relate only to the samples tested.
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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

# Test Report Certification

Issued Date: Sep. 22, 2008
Report No.: 063L107-RF-US-P05V01

**Accredited by NIST (NVLAP)**
NVLAP Lab Code: 200533-0

| | |
|---|---|
| Product Name | Wireless LAN Card |
| Applicant | MICRO-STAR INTL Co., LTD. |
| Address | No. 69, Li-De St., Jung-He City, Taipei Hsien, Taiwan, R.O.C. |
| Manufacturer | MICRO-STAR INTL Co., LTD. |
| Model No. | MS-6877 |
| Rated Voltage | AC 120V/60Hz |
| Working Voltage | DC 3.3V |
| Trade Name | MSI |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2005<br>CISPR 22 Edition 4.1: 2004<br>ANSI C63.4: 2003 |
| Test Result | Complied |

NVLAP Lab Code: 200533-0

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( Engineering Adm. Specialist / Rita Huang )

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( Manager / Vincent Lin)

Testing Laboratory
0914

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Attachment 1: EUT Test Photographs
Attachment 2: EUT Detailed Photographs

# 1. GENERAL INFORMATION

## 1.1. EUT Description

| | |
|---|---|
| Product Name | Wireless LAN Card |
| Trade Name | MSI |
| Model No. | MS-6877 |
| FCC ID | I4L-MS6877 |
| Frequency Range | 2412 – 2462MHz |
| Channel Number | 11 |
| Data Speed | IEEE 802.11b – 1, 2, 5.5, 11Mbps<br>IEEE 802.11g – 6, 9, 12, 18, 24, 36 48, 54Mbps |
| Type of Modulation | DSSS/ OFDM |
| Antenna Type | Connector |
| Antenna Gain | Refer to the table “Antenna List” |
| Channel Control | Auto |

**Antenna List**

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|---|---|---|---|---|
| 1 | Omni-Directional | SAA04-050350 | Dipole | 4.5dBi for 2.4 GHz |
| 2 | MSI | S79-1800180-SB1 | PIFA | 2.31dBi for 2.4 GHz |
| 3 | Uniwill | P72 | PIFA | 1.29dBi for 2.4 GHz |
| 4 | Uniwill | S50 925(B) FVC | PIFA | -1.05dBi for 2.4 GHz |
| 5 | Uniwill | S50 645(G) FVC | PIFA | -1.05dBi for 2.4 GHz |
| 6 | Uniwill | S50 YAGEO | PIFA | -1.05dBi for 2.4 GHz |
| 7 | Twinhead | TW12YWIP102A | PIFA | 0.93dBi for 2.4 GHz |

Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| Channel 1: | 2412 MHz | Channel 5: | 2432 MHz | Channel 9: | 2452 MHz |
| Channel 2: | 2417 MHz | Channel 6: | 2437 MHz | Channel 10: | 2457 MHz |
| Channel 3: | 2422 MHz | Channel 7: | 2442 MHz | Channel 11: | 2462 MHz |
| Channel 4: | 2427 MHz | Channel 8: | 2447 MHz | | |

Note:

1. The EUT is a Wireless LAN Card with a 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 11Mbps and 802.11g is 54Mbps)
4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.

## 1.2. Operational Description

The EUT is a Wireless LAN Card with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps. The device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b) or eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps. The device of RF carrier is OFDM (IEEE 802.11g).

The device adapts direct sequence spread spectrum modulation. The antenna provides diversity function to improve the receiving function.

This Wireless LAN Card, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direst Sequence Spread Spectrum (DSSS) radio transmission, the Wireless LAN Card Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

| | |
|---|---|
| Test Mode | Mode 1: Transmitter 802.11b(Antenna 1) |
| | Mode 2: Transmitter 802.11g(Anetenna 1) |
| | Mode 3: Transmitter 802.11b(Antenna 2) |
| | Mode 4: Transmitter 802.11g(Antenna 2) |

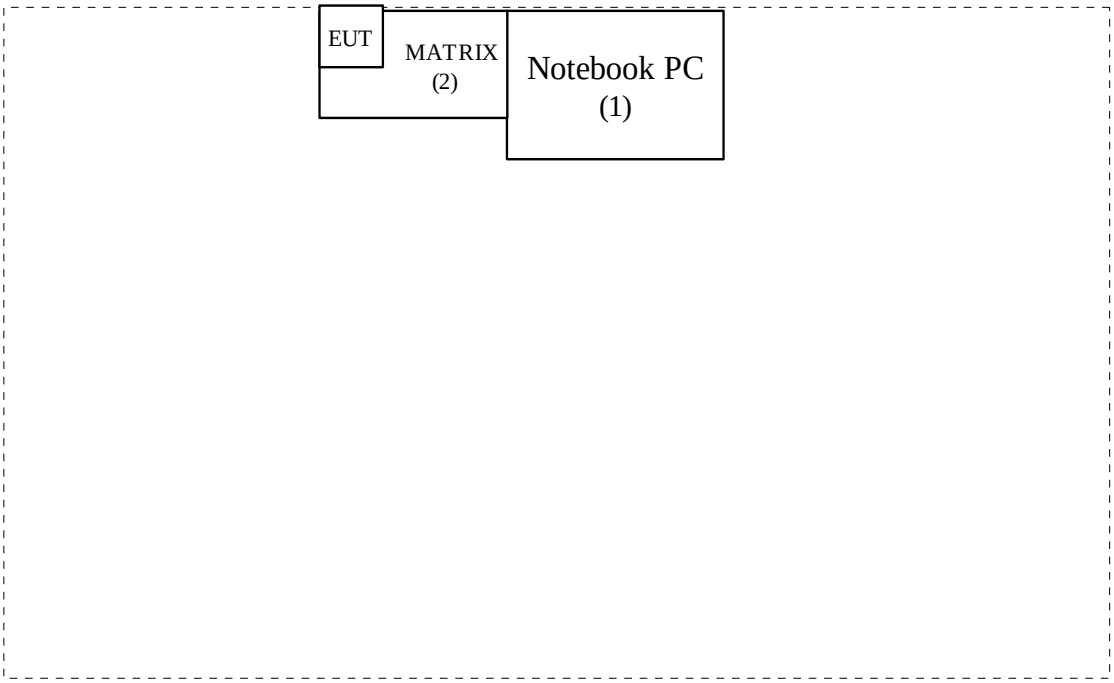
## 1.3. Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord |
|---|---|---|---|---|---|---|
| 1. | Notebook PC | DELL | PPT | N/A | DoC | Non-Shielded, 0.8m |
| 2. | MATRIX | MSI | N/A | N/A | N/A | N/A |

| Signal Cable Type | | Signal cable Description |
|---|---|---|
| A. | N/A | N/A |

## 1.4. Configuration of Test System




## 1.5. EUT Exercise Software

(1) Setup the EUT as shown in section 1.4

(2) Execute the CRTU program (the continuous transmission program) on the EUT

(3) Setup the test mode, the test channel, and the data rate.

(4) Press OK to start the transmission.

(5) Verify that the EUT works correctly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|---|---|---|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 50-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://tw.quietek.com/modules/myalbum/
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation

Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
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TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

Testing Laboratory
0914

# 2. Conducted Emission

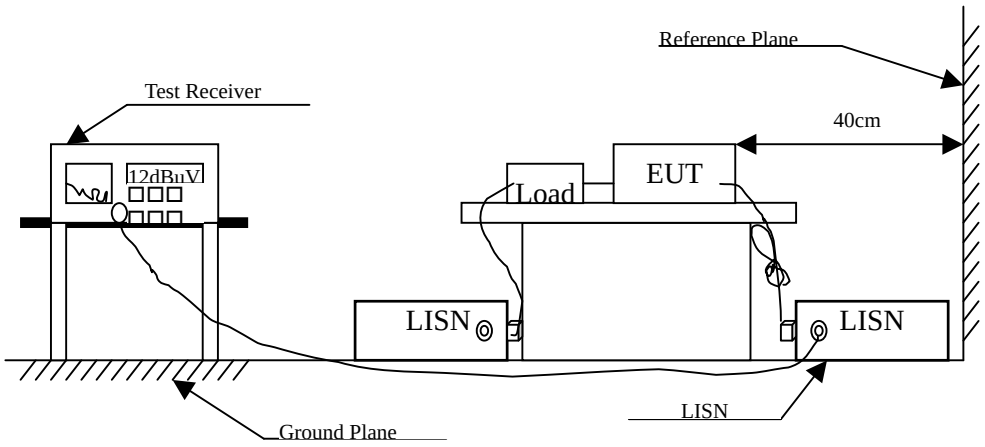
## 2.1. Test Equipment

The following test equipment are used during the conducted emission test:

| Item | Instrument | Manufacturer | Type No./Serial No | Last Cal. | Remark |
|---|---|---|---|---|---|
| 1 | Test Receiver | R & S | ESCS 30/825442/17 | May, 2005 | |
| 2 | L.I.S.N. | R & S | ESH3-Z5/825016/6 | May, 2005 | EUT |
| 3 | L.I.S.N. | Kyoritsu | KNW-407/8-1420-3 | May, 2005 | Peripherals |
| 4 | Pulse Limiter | R & S | ESH3-Z2 | May, 2005 | |
| 5 | No.1 Shielded Room | | | N/A | |

Note: All instruments are calibrated every one year.

## 2.2. Test Setup




## 2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit | | |
|---|---|---|
| Frequency MHz | Limits | |
| | uV | dBuV |
| 0.15 - 0.50 | 66-56(註) | 56-46(註) |
| 0.50-5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

## 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

## 2.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

## 2.6. Test Result of Conducted Emission

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 1** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.183 | 0.200 | 35.670 | 35.870 | -29.187 | 65.057 |
| 0.379 | 0.200 | 18.570 | 18.770 | -40.687 | 59.457 |
| 0.744 | 0.210 | 15.390 | 15.600 | -40.400 | 56.000 |
| 2.248 | 0.220 | 15.830 | 16.050 | -39.950 | 56.000 |
| 3.784 | 0.250 | 11.810 | 12.060 | -43.940 | 56.000 |
| 10.232 | 0.330 | 16.230 | 16.560 | -43.440 | 60.000 |
| **Average** | | | | | |
| 0.183 | 0.200 | 22.450 | 22.650 | -32.407 | 55.057 |
| 0.379 | 0.200 | 7.160 | 7.360 | -42.097 | 49.457 |
| 0.744 | 0.210 | 4.390 | 4.600 | -41.400 | 46.000 |
| 2.248 | 0.220 | 6.390 | 6.610 | -39.390 | 46.000 |
| 3.784 | 0.250 | 2.920 | 3.170 | -42.830 | 46.000 |
| 10.232 | 0.330 | 10.550 | 10.880 | -39.120 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 2** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.186 | 0.200 | 35.410 | 35.610 | -29.361 | 64.971 |
| 0.266 | 0.200 | 22.290 | 22.490 | -40.196 | 62.686 |
| 0.575 | 0.200 | 15.090 | 15.290 | -40.710 | 56.000 |
| 2.330 | 0.220 | 14.090 | 14.310 | -41.690 | 56.000 |
| 3.803 | 0.250 | 12.550 | 12.800 | -43.200 | 56.000 |
| 10.834 | 0.341 | 15.850 | 16.191 | -43.809 | 60.000 |
| **Average** | | | | | |
| 0.186 | 0.200 | 21.890 | 22.090 | -32.881 | 54.971 |
| 0.266 | 0.200 | 12.300 | 12.500 | -40.186 | 52.686 |
| 0.575 | 0.200 | 2.340 | 2.540 | -43.460 | 46.000 |
| 2.330 | 0.220 | 5.480 | 5.700 | -40.300 | 46.000 |
| 3.803 | 0.250 | 4.190 | 4.440 | -41.560 | 46.000 |
| 10.834 | 0.341 | 10.280 | 10.621 | -39.379 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 1** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.194 | 0.200 | 37.780 | 37.980 | -26.763 | 64.743 |
| 0.279 | 0.200 | 24.940 | 25.140 | -37.174 | 62.314 |
| 0.478 | 0.200 | 13.040 | 13.240 | -43.389 | 56.629 |
| 0.948 | 0.210 | 12.380 | 12.590 | -43.410 | 56.000 |
| 1.642 | 0.220 | 12.820 | 13.040 | -42.960 | 56.000 |
| 9.384 | 0.320 | 15.720 | 16.040 | -43.960 | 60.000 |
| **Average** | | | | | |
| 0.194 | 0.200 | 23.410 | 23.610 | -31.133 | 54.743 |
| 0.279 | 0.200 | 13.150 | 13.350 | -38.964 | 52.314 |
| 0.478 | 0.200 | 3.370 | 3.570 | -43.059 | 46.629 |
| 0.948 | 0.210 | 3.370 | 3.580 | -42.420 | 46.000 |
| 1.642 | 0.220 | 3.660 | 3.880 | -42.120 | 46.000 |
| 9.384 | 0.320 | 9.910 | 10.230 | -39.770 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 2** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.184 | 0.200 | 36.980 | 37.180 | -27.849 | 65.029 |
| 0.280 | 0.200 | 24.080 | 24.280 | -38.006 | 62.286 |
| 0.468 | 0.200 | 13.300 | 13.500 | -43.414 | 56.914 |
| 2.314 | 0.220 | 14.940 | 15.160 | -40.840 | 56.000 |
| 3.871 | 0.250 | 11.020 | 11.270 | -44.730 | 56.000 |
| 9.353 | 0.320 | 14.560 | 14.880 | -45.120 | 60.000 |
| **Average** | | | | | |
| 0.184 | 0.200 | 21.720 | 21.920 | -33.109 | 55.029 |
| 0.280 | 0.200 | 13.380 | 13.580 | -38.706 | 52.286 |
| 0.468 | 0.200 | 3.780 | 3.980 | -42.934 | 46.914 |
| 2.314 | 0.220 | 6.810 | 7.030 | -38.970 | 46.000 |
| 3.871 | 0.250 | 3.430 | 3.680 | -42.320 | 46.000 |
| 9.353 | 0.320 | 8.630 | 8.950 | -41.050 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 1** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.186 | 0.200 | 36.600 | 36.800 | -28.171 | 64.971 |
| 0.283 | 0.200 | 24.160 | 24.360 | -37.840 | 62.200 |
| 0.561 | 0.200 | 17.180 | 17.380 | -38.620 | 56.000 |
| 1.780 | 0.220 | 12.840 | 13.060 | -42.940 | 56.000 |
| 4.021 | 0.250 | 11.420 | 11.670 | -44.330 | 56.000 |
| 9.257 | 0.320 | 16.060 | 16.380 | -43.620 | 60.000 |
| **Average** | | | | | |
| 0.186 | 0.200 | 22.970 | 23.170 | -31.801 | 54.971 |
| 0.283 | 0.200 | 15.290 | 15.490 | -36.710 | 52.200 |
| 0.561 | 0.200 | 7.360 | 7.560 | -38.440 | 46.000 |
| 1.780 | 0.220 | 3.840 | 4.060 | -41.940 | 46.000 |
| 4.021 | 0.250 | 3.550 | 3.800 | -42.200 | 46.000 |
| 9.257 | 0.320 | 10.300 | 10.620 | -39.380 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 2** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.188 | 0.200 | 35.980 | 36.180 | -28.734 | 64.914 |
| 0.284 | 0.200 | 23.700 | 23.900 | -38.271 | 62.171 |
| 0.574 | 0.200 | 16.040 | 16.240 | -39.760 | 56.000 |
| 1.922 | 0.220 | 15.920 | 16.140 | -39.860 | 56.000 |
| 3.569 | 0.240 | 11.420 | 11.660 | -44.340 | 56.000 |
| 8.802 | 0.320 | 14.620 | 14.940 | -45.060 | 60.000 |
| **Average** | | | | | |
| 0.188 | 0.200 | 22.970 | 23.170 | -31.744 | 54.914 |
| 0.284 | 0.200 | 15.040 | 15.240 | -36.931 | 52.171 |
| 0.574 | 0.200 | 5.820 | 6.020 | -39.980 | 46.000 |
| 1.922 | 0.220 | 6.970 | 7.190 | -38.810 | 46.000 |
| 3.569 | 0.240 | 3.610 | 3.850 | -42.150 | 46.000 |
| 8.802 | 0.320 | 8.830 | 9.150 | -40.850 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 1** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.190 | 0.200 | 35.740 | 35.940 | -28.917 | 64.857 |
| 0.288 | 0.200 | 23.520 | 23.720 | -38.337 | 62.057 |
| 0.543 | 0.200 | 15.980 | 16.180 | -39.820 | 56.000 |
| 2.111 | 0.220 | 15.500 | 15.720 | -40.280 | 56.000 |
| 4.162 | 0.250 | 11.560 | 11.810 | -44.190 | 56.000 |
| 10.752 | 0.340 | 15.860 | 16.200 | -43.800 | 60.000 |
| **Average** | | | | | |
| 0.190 | 0.200 | 23.170 | 23.370 | -31.487 | 54.857 |
| 0.288 | 0.200 | 14.250 | 14.450 | -37.607 | 52.057 |
| 0.543 | 0.200 | 6.000 | 6.200 | -39.800 | 46.000 |
| 2.111 | 0.220 | 6.480 | 6.700 | -39.300 | 46.000 |
| 4.162 | 0.250 | 4.010 | 4.260 | -41.740 | 46.000 |
| 10.752 | 0.340 | 10.300 | 10.640 | -39.360 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV | dB | dBuV |
| **LINE 2** | | | | | |
| **Quasi-Peak** | | | | | |
| 0.173 | 0.200 | 36.120 | 36.320 | -29.023 | 65.343 |
| 0.281 | 0.200 | 24.100 | 24.300 | -37.957 | 62.257 |
| 0.564 | 0.200 | 15.660 | 15.860 | -40.140 | 56.000 |
| 2.084 | 0.220 | 14.840 | 15.060 | -40.940 | 56.000 |
| 4.505 | 0.260 | 11.400 | 11.660 | -44.340 | 56.000 |
| 9.068 | 0.320 | 15.320 | 15.640 | -44.360 | 60.000 |
| **Average** | | | | | |
| 0.173 | 0.200 | 19.700 | 19.900 | -35.443 | 55.343 |
| 0.281 | 0.200 | 15.350 | 15.550 | -36.707 | 52.257 |
| 0.564 | 0.200 | 5.820 | 6.020 | -39.980 | 46.000 |
| 2.084 | 0.220 | 6.130 | 6.350 | -39.650 | 46.000 |
| 4.505 | 0.260 | 3.840 | 4.100 | -41.900 | 46.000 |
| 9.068 | 0.320 | 9.510 | 9.830 | -40.170 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

# 3. Peak Power Output

## 3.1. Test Equipment

The following test equipments are used during the radiated emission tests:

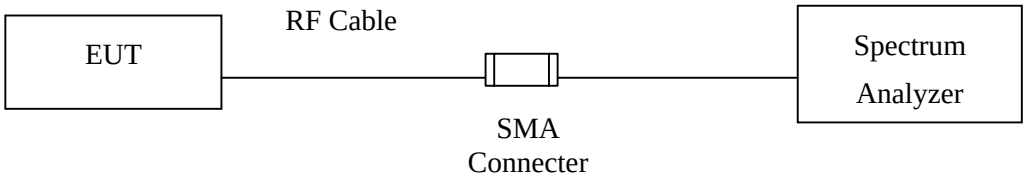
| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|
| X | Test Receiver | R & S | ESI 26 / 838786 / 004 | May, 2005 |

Note: 1. All instruments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

## 3.2. Test Setup

**Conduction Power Measurement**




## 3.3. Limits

The maximum peak power shall be less 1 Watt.

## 3.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

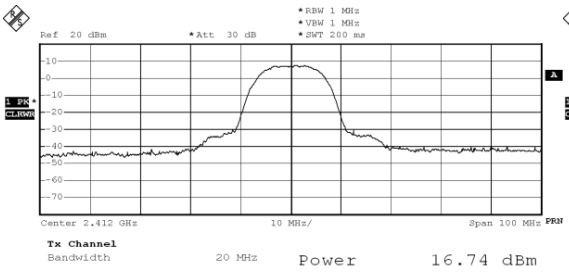
## 3.5. Test Result of Peak Power Output

Product : Wireless LAN Card
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

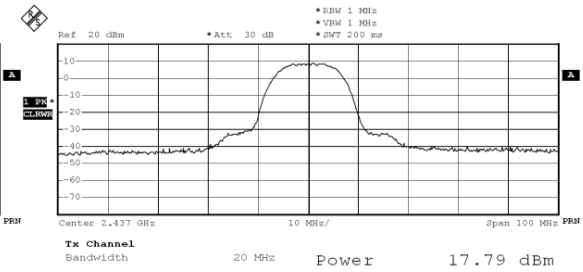
**Data Speed: 11Mbps**

| Channel No. | Frequency (MHz) | Measurement | Required Limit | Result |
|---|---|---|---|---|
| 1 | 2412.00 | 16.74dBm | 1Watt= 30 dBm | Pass |
| 6 | 2437.00 | 17.79dBm | 1Watt= 30 dBm | Pass |
| 11 | 2462.00 | 18.20dBm | 1Watt= 30 dBm | Pass |

11Mbps-CH01



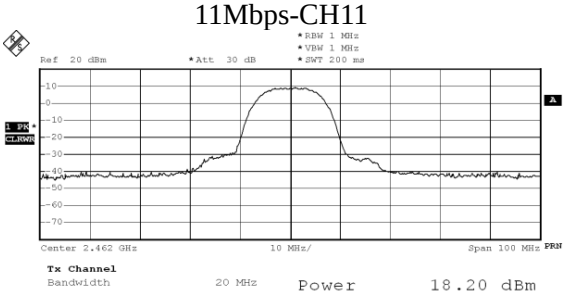

11Mbps-CH 06




Date: 22.MAR.2006 20:12:20

Date: 22.MAR.2006 20:13:00

11Mbps-CH11



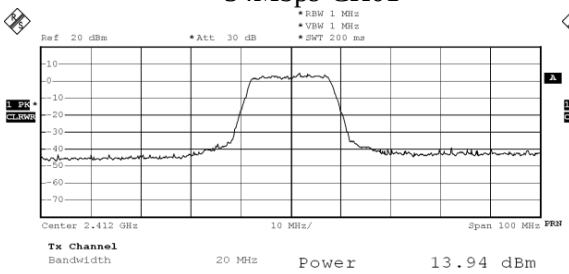

Date: 22.MAR.2006 20:13:50

Product : Wireless LAN Card
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

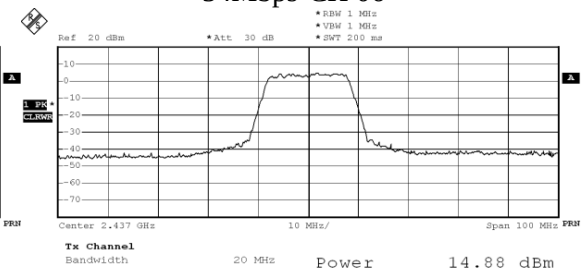
**Data Speed: 54Mbps**

| Channel No. | Frequency (MHz) | Measurement | Required Limit | Result |
|---|---|---|---|---|
| 1 | 2412.00 | 13.94dBm | 1Watt= 30 dBm | Pass |
| 6 | 2437.00 | 14.88dBm | 1Watt= 30 dBm | Pass |
| 11 | 2462.00 | 15.27dBm | 1Watt= 30 dBm | Pass |

54Mbps-CH01



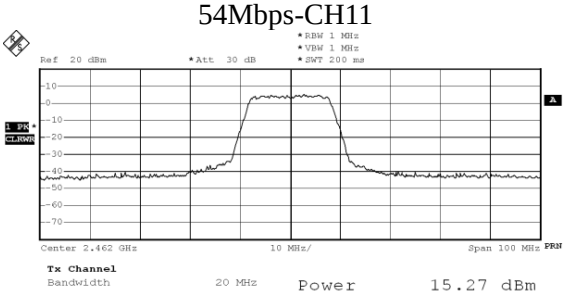

54Mbps-CH 06




Date: 22.MAR.2006 20:06:04

Date: 22.MAR.2006 20:06:42

54Mbps-CH11




Date: 22.MAR.2006 20:07:23

# 4. Radiated Emission

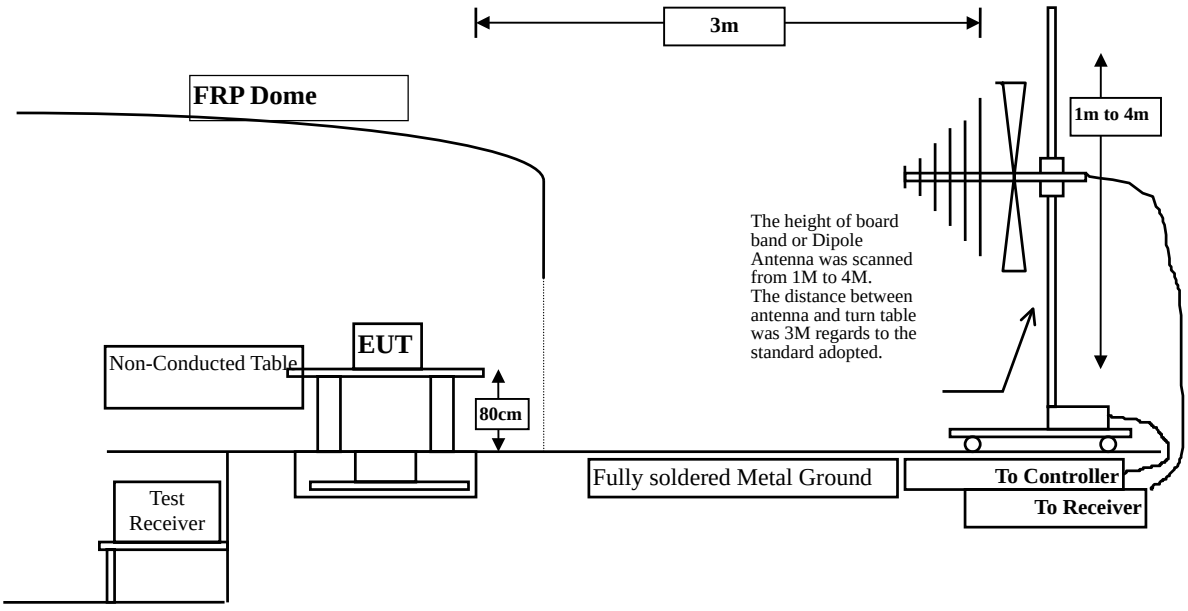
## 4.1. Test Equipment

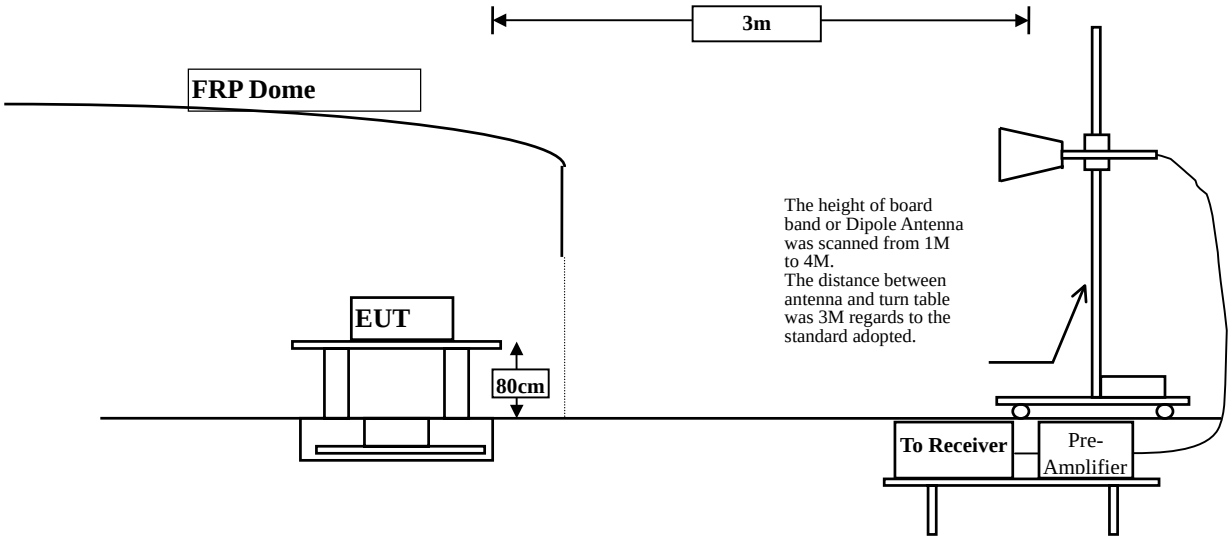
The following test equipment are used during the radiated emission test:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|---|
| Site # 1 | | Test Receiver | R & S | ESCS 30 / 825442/14 | May, 2005 |
| | | Spectrum Analyzer | Advantest | R3261C / 71720140 | May, 2005 |
| | | Pre-Amplifier | HP | 8447D/3307A01812 | May, 2005 |
| | | Bilog Antenna | Chase | CBL6112B / 12452 | Sep., 2005 |
| | | Horn Antenna | EM | EM6917 / 103325 | May, 2005 |
| Site # 2 | | Test Receiver | R & S | ESCS 30 / 825442/17 | May, 2005 |
| | | Spectrum Analyzer | Advantest | R3261C / 71720609 | May, 2005 |
| | | Pre-Amplifier | HP | 8447D/3307A01814 | May, 2005 |
| | | Bilog Antenna | Chase | CBL6112B / 2455 | Sep., 2005 |
| | | Horn Antenna | EM | EM6917 / 103325 | May, 2005 |
| Site # 3 | X | Test Receiver | R & S | ESI 26 / 838786 / 004 | May, 2005 |
| | X | Spectrum Analyzer | Advantest | R3162 / 100803480 | May, 2005 |
| | X | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2005 |
| | X | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2005 |
| | X | Horn Antenna | ETS | 3115 / 0005-6160 | July, 2005 |
| | X | Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2005 |

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

## 4.2. Test Setup






## 4.3. Limits

➢ **General Radiated Emission Limits**

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| **FCC Part 15 Subpart C Paragraph 15.209(a) Limits** | | |
|---|---|---|
| Frequency MHz | uV/m @3m | dBuV/m@3m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

## 4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field dtrength of harmonics measurement.
The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30 )is 120 kHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harminics is checked.
**Note: The lowest frequency of oscillators is 40MHz. And there are no spurious emissions under 30MHz.**

## 4.5. Uncertainty

The measurement uncertainty is defined as ± 3.8 dB above 1GHz as ± 3.9 dB

## 4.6. Test Result of Radiated Emission

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4823.960 | 2.772 | 38.780 | 41.552 | -32.448 | 74.00 |
| 7236.010 | 7.981 | 36.410 | 44.391 | -29.609 | 74.00 |
| 9648.000 | 11.526 | 36.630 | 48.156 | -25.844 | 74.00 |
| 12059.980 | 13.468 | 34.190 | 47.658 | -26.342 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4823.880 | 1.019 | 43.130 | 44.149 | -29.851 | 74.00 |
| 7236.000 | 7.981 | 36.250 | 44.231 | -29.769 | 74.00 |
| 9648.000 | 13.526 | 35.500 | 49.026 | -24.974 | 74.00 |
| 12059.980 | 15.636 | 34.670 | 50.306 | -23.694 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4874.040 | 3.004 | 37.220 | 40.224 | -33.776 | 74.00 |
| 7311.060 | 8.551 | 35.610 | 44.160 | -29.840 | 74.00 |
| 9747.960 | 11.606 | 35.750 | 47.356 | -26.644 | 74.00 |
| 12185.040 | 17.456 | 32.860 | 50.316 | -23.684 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4874.040 | 1.351 | 43.460 | 44.811 | -29.189 | 74.00 |
| 7311.000 | 8.550 | 35.040 | 43.590 | -30.410 | 74.00 |
| 9747.980 | 13.606 | 34.700 | 48.306 | -25.694 | 74.00 |
| 12184.980 | 17.784 | 33.780 | 51.563 | -22.437 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4920.180 | 3.203 | 38.320 | 41.523 | -32.477 | 74.00 |
| 7385.980 | 9.130 | 35.980 | 45.110 | -28.890 | 74.00 |
| 9847.940 | 12.057 | 35.180 | 47.238 | -26.762 | 74.00 |
| 12309.980 | 4.116 | 33.610 | 37.726 | -36.274 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4923.860 | 1.670 | 42.830 | 44.500 | -29.500 | 74.00 |
| 7386.020 | 9.130 | 35.980 | 45.110 | -28.890 | 74.00 |
| 9847.980 | 13.579 | 34.920 | 48.498 | -25.502 | 74.00 |
| 12309.980 | 15.716 | 34.130 | 49.847 | -24.153 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4823.940 | 2.771 | 36.960 | 39.732 | -34.268 | 74.00 |
| 7235.920 | 7.981 | 35.990 | 43.971 | -30.029 | 74.00 |
| 9648.060 | 11.526 | 36.110 | 47.636 | -26.364 | 74.00 |
| 12060.020 | 13.471 | 32.970 | 46.441 | -27.559 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4824.120 | 1.021 | 37.600 | 38.621 | -35.379 | 74.00 |
| 7235.980 | 7.981 | 36.150 | 44.131 | -29.869 | 74.00 |
| 9648.100 | 13.527 | 35.240 | 48.766 | -25.234 | 74.00 |
| 12060.060 | 15.637 | 34.180 | 49.817 | -24.183 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4873.980 | 3.004 | 36.890 | 39.894 | -34.106 | 74.00 |
| 7311.040 | 8.551 | 36.360 | 44.910 | -29.090 | 74.00 |
| 9748.100 | 11.606 | 35.490 | 47.096 | -26.904 | 74.00 |
| 12184.940 | 17.456 | 33.840 | 51.296 | -22.704 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4874.120 | 1.351 | 37.950 | 39.301 | -34.699 | 74.00 |
| 7310.940 | 8.549 | 35.660 | 44.209 | -29.791 | 74.00 |
| 9748.080 | 13.606 | 35.250 | 48.856 | -25.144 | 74.00 |
| 12185.000 | 17.784 | 33.910 | 51.694 | -22.306 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4923.940 | 3.218 | 36.920 | 40.138 | -33.862 | 74.00 |
| 7386.060 | 9.131 | 35.680 | 44.811 | -29.189 | 74.00 |
| 9847.960 | 12.057 | 34.680 | 46.738 | -27.262 | 74.00 |
| 12309.900 | 4.102 | 35.050 | 39.152 | -34.848 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4924.060 | 1.671 | 38.040 | 39.711 | -34.289 | 74.00 |
| 7386.040 | 9.130 | 36.290 | 45.421 | -28.579 | 74.00 |
| 9847.920 | 13.578 | 35.560 | 49.138 | -24.862 | 74.00 |
| 12309.940 | 15.717 | 34.330 | 50.048 | -23.952 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2412MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4824.100 | 2.772 | 36.710 | 39.482 | -34.518 | 74.00 |
| 7236.080 | 7.982 | 36.110 | 44.092 | -29.908 | 74.00 |
| 9648.060 | 11.526 | 34.810 | 46.336 | -27.664 | 74.00 |
| 12059.980 | 13.468 | 33.070 | 46.538 | -27.462 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4824.000 | 1.020 | 37.100 | 38.120 | -35.880 | 74.00 |
| 7235.980 | 7.981 | 36.820 | 44.801 | -29.199 | 74.00 |
| 9648.060 | 13.526 | 36.050 | 49.576 | -24.424 | 74.00 |
| 12060.080 | 15.637 | 34.400 | 50.037 | -23.963 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4874.000 | 3.004 | 36.640 | 39.644 | -34.356 | 74.00 |
| 7306.000 | 8.509 | 36.150 | 44.659 | -29.341 | 74.00 |
| 9748.040 | 11.606 | 35.230 | 46.836 | -27.164 | 74.00 |
| 12185.000 | 17.456 | 31.930 | 49.386 | -24.614 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4874.060 | 1.351 | 37.240 | 38.591 | -35.409 | 74.00 |
| 7311.060 | 8.551 | 36.070 | 44.620 | -29.380 | 74.00 |
| 9748.000 | 13.605 | 35.610 | 49.216 | -24.784 | 74.00 |
| 12185.060 | 17.785 | 31.310 | 49.095 | -24.905 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4924.080 | 3.218 | 37.240 | 40.458 | -33.542 | 74.00 |
| 7385.960 | 9.130 | 36.480 | 45.610 | -28.390 | 74.00 |
| 9848.040 | 12.059 | 35.460 | 47.519 | -26.481 | 74.00 |
| 12310.060 | 4.129 | 34.060 | 38.189 | -35.811 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4923.920 | 1.671 | 42.030 | 43.700 | -30.300 | 74.00 |
| 7386.040 | 9.130 | 35.810 | 44.941 | -29.059 | 74.00 |
| 9847.920 | 13.578 | 34.860 | 48.438 | -25.562 | 74.00 |
| 12309.920 | 15.718 | 34.620 | 50.338 | -23.662 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2412 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4824.080 | 2.772 | 37.190 | 39.962 | -34.038 | 74.00 |
| 7236.040 | 7.982 | 36.710 | 44.692 | -29.308 | 74.00 |
| 9648.000 | 11.526 | 35.440 | 46.966 | -27.034 | 74.00 |
| 12059.940 | 13.465 | 33.710 | 47.174 | -26.826 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4824.120 | 1.021 | 38.040 | 39.061 | -34.939 | 74.00 |
| 7236.020 | 7.981 | 37.490 | 45.471 | -28.529 | 74.00 |
| 9648.060 | 13.526 | 35.180 | 48.706 | -25.294 | 74.00 |
| 12059.960 | 15.636 | 34.660 | 50.295 | -23.705 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4873.980 | 3.004 | 37.020 | 40.024 | -33.976 | 74.00 |
| 7311.020 | 8.550 | 36.970 | 45.520 | -28.480 | 74.00 |
| 9747.980 | 11.606 | 34.810 | 46.416 | -27.584 | 74.00 |
| 12184.960 | 17.456 | 31.590 | 49.046 | -24.954 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4873.960 | 1.350 | 36.690 | 38.040 | -35.960 | 74.00 |
| 7310.920 | 8.549 | 35.750 | 44.299 | -29.701 | 74.00 |
| 9748.040 | 13.606 | 34.590 | 48.196 | -25.804 | 74.00 |
| 12184.920 | 17.783 | 32.150 | 49.932 | -24.068 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| **Peak Detector:** | | | | | |
| 4923.920 | 3.218 | 37.700 | 40.918 | -33.082 | 74.00 |
| 7386.080 | 9.131 | 36.300 | 45.431 | -28.569 | 74.00 |
| 9847.960 | 12.057 | 35.090 | 47.148 | -26.852 | 74.00 |
| 12309.960 | 4.112 | 34.730 | 38.843 | -35.157 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |
| **Vertical** | | | | | |
| **Peak Detector:** | | | | | |
| 4924.080 | 1.671 | 37.390 | 39.061 | -34.939 | 74.00 |
| 7386.080 | 9.131 | 36.310 | 45.441 | -28.559 | 74.00 |
| 9847.960 | 13.578 | 34.760 | 48.338 | -25.662 | 74.00 |
| 12309.940 | 15.717 | 34.070 | 49.788 | -24.212 | 74.00 |
| **Average Detector:** | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 265.230 | 14.027 | 7.014 | 21.041 | -24.959 | 46.000 |
| 398.600 | 16.458 | 7.974 | 24.432 | -21.568 | 46.000 |
| 522.280 | 18.602 | 10.764 | 29.366 | -16.634 | 46.000 |
| 599.880 | 20.000 | 10.661 | 30.661 | -15.339 | 46.000 |
| 718.700 | 20.707 | 13.555 | 34.262 | -11.738 | 46.000 |
| 839.950 | 21.985 | 11.057 | 33.042 | -12.958 | 46.000 |
| **Vertical** | | | | | |
| 331.120 | 14.388 | 12.032 | 26.420 | -19.580 | 46.000 |
| 478.620 | 18.643 | 6.597 | 25.240 | -20.760 | 46.000 |
| 599.880 | 21.899 | 10.711 | 32.610 | -13.390 | 46.000 |
| 721.120 | 22.229 | 4.111 | 26.340 | -19.660 | 46.000 |
| 791.450 | 22.153 | 6.007 | 28.160 | -17.840 | 46.000 |
| 839.950 | 21.403 | 12.857 | 34.260 | -11.740 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 260.380 | 14.514 | 11.080 | 25.594 | -20.406 | 46.000 |
| 311.300 | 13.820 | 13.099 | 26.919 | -19.081 | 46.000 |
| 500.450 | 18.352 | 12.126 | 30.478 | -15.522 | 46.000 |
| 599.880 | 20.000 | 11.721 | 31.721 | -14.279 | 46.000 |
| 721.120 | 20.929 | 13.051 | 33.980 | -12.020 | 46.000 |
| 839.950 | 21.985 | 13.757 | 35.742 | -10.258 | 46.000 |
| **Vertical** | | | | | |
| 345.250 | 14.913 | 8.337 | 23.250 | -22.750 | 46.000 |
| 384.050 | 16.822 | 11.798 | 28.620 | -17.380 | 46.000 |
| 481.050 | 18.586 | 10.464 | 29.050 | -16.950 | 46.000 |
| 599.880 | 21.899 | 9.551 | 31.450 | -14.550 | 46.000 |
| 718.700 | 21.907 | 11.393 | 33.300 | -12.700 | 46.000 |
| 839.950 | 21.403 | 12.177 | 33.580 | -12.420 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "  " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 384.050 | 15.761 | 8.878 | 24.639 | -21.361 | 46.000 |
| 401.020 | 16.644 | 8.142 | 24.786 | -21.214 | 46.000 |
| 599.880 | 20.000 | 11.791 | 31.791 | -14.209 | 46.000 |
| 718.700 | 20.707 | 12.683 | 33.390 | -12.610 | 46.000 |
| 839.950 | 21.985 | 10.167 | 32.152 | -13.848 | 46.000 |
| 876.330 | 21.967 | 10.103 | 32.070 | -13.930 | 46.000 |
| **Vertical** | | | | | |
| 260.380 | 14.610 | 12.050 | 26.660 | -19.340 | 46.000 |
| 335.550 | 14.360 | 8.360 | 22.720 | -23.280 | 46.000 |
| 481.050 | 18.586 | 8.374 | 26.960 | -19.040 | 46.000 |
| 599.880 | 21.899 | 12.361 | 34.260 | -11.740 | 46.000 |
| 721.120 | 22.229 | 10.801 | 33.030 | -12.970 | 46.000 |
| 839.950 | 21.403 | 10.037 | 31.440 | -14.560 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "  " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 384.050 | 15.761 | 9.698 | 25.459 | -20.541 | 46.000 |
| 468.920 | 18.779 | 9.765 | 28.544 | -17.456 | 46.000 |
| 529.550 | 18.654 | 13.337 | 31.991 | -14.009 | 46.000 |
| 599.880 | 20.000 | 11.591 | 31.591 | -14.409 | 46.000 |
| 721.120 | 20.929 | 12.531 | 33.460 | -12.540 | 46.000 |
| 839.950 | 21.985 | 10.147 | 32.132 | -13.868 | 46.000 |
| **Vertical** | | | | | |
| 359.800 | 15.957 | 9.843 | 25.800 | -20.200 | 46.000 |
| 485.900 | 18.545 | 9.525 | 28.070 | -17.930 | 46.000 |
| 599.880 | 21.899 | 12.261 | 34.160 | -11.840 | 46.000 |
| 718.700 | 21.907 | 10.493 | 32.400 | -13.600 | 46.000 |
| 764.780 | 22.857 | 5.903 | 28.760 | -17.240 | 46.000 |
| 839.950 | 21.403 | 11.227 | 32.630 | -13.370 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 376.770 | 15.837 | 7.379 | 23.216 | -22.784 | 46.000 |
| 515.000 | 18.950 | 8.921 | 27.871 | -18.129 | 46.000 |
| 599.880 | 20.000 | 11.261 | 31.261 | -14.739 | 46.000 |
| 624.120 | 20.859 | 7.820 | 28.680 | -17.320 | 46.000 |
| 718.700 | 20.707 | 11.953 | 32.660 | -13.340 | 46.000 |
| 839.950 | 21.985 | 13.117 | 35.102 | -10.898 | 46.000 |
| **Vertical** | | | | | |
| 219.150 | 10.370 | 12.020 | 22.390 | -23.610 | 46.000 |
| 381.620 | 16.688 | 8.972 | 25.660 | -20.340 | 46.000 |
| 485.900 | 18.545 | 6.955 | 25.500 | -20.500 | 46.000 |
| 599.880 | 21.899 | 11.261 | 33.160 | -12.840 | 46.000 |
| 723.550 | 22.347 | 9.553 | 31.900 | -14.100 | 46.000 |
| 839.950 | 21.403 | 13.377 | 34.780 | -11.220 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "  " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 384.050 | 15.761 | 8.298 | 24.059 | -21.941 | 46.000 |
| 599.880 | 20.000 | 10.711 | 30.711 | -15.289 | 46.000 |
| 660.500 | 20.942 | 9.368 | 30.310 | -15.690 | 46.000 |
| 718.700 | 20.707 | 12.623 | 33.330 | -12.670 | 46.000 |
| 839.950 | 21.985 | 11.077 | 33.062 | -12.938 | 46.000 |
| 876.330 | 21.967 | 10.593 | 32.560 | -13.440 | 46.000 |
| **Vertical** | | | | | |
| 151.250 | 10.473 | 12.597 | 23.070 | -20.430 | 43.500 |
| 478.620 | 18.643 | 6.677 | 25.320 | -20.680 | 46.000 |
| 599.880 | 21.899 | 11.691 | 33.590 | -12.410 | 46.000 |
| 713.850 | 21.577 | 10.563 | 32.140 | -13.860 | 46.000 |
| 827.830 | 21.428 | 7.642 | 29.070 | -16.930 | 46.000 |
| 839.950 | 21.403 | 13.717 | 35.120 | -10.880 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "  " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2412 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 367.080 | 15.893 | 9.365 | 25.258 | -20.742 | 46.000 |
| 401.020 | 16.644 | 6.912 | 23.556 | -22.444 | 46.000 |
| 456.800 | 18.477 | 7.978 | 26.455 | -19.545 | 46.000 |
| 597.450 | 19.917 | 13.157 | 33.074 | -12.926 | 46.000 |
| 764.780 | 22.306 | 7.753 | 30.059 | -15.941 | 46.000 |
| 801.150 | 21.771 | 11.192 | 32.963 | -13.037 | 46.000 |
| **Vertical** | | | | | |
| 345.250 | 14.913 | 7.577 | 22.490 | -23.510 | 46.000 |
| 384.050 | 16.822 | 9.858 | 26.680 | -19.320 | 46.000 |
| 677.470 | 20.110 | 8.040 | 28.150 | -17.850 | 46.000 |
| 750.220 | 23.184 | 6.906 | 30.090 | -15.910 | 46.000 |
| 801.150 | 21.828 | 12.442 | 34.270 | -11.730 | 46.000 |
| 827.150 | 21.422 | 8.428 | 29.850 | -16.150 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 401.020 | 16.644 | 10.182 | 26.826 | -19.174 | 46.000 |
| 459.230 | 18.563 | 8.250 | 26.813 | -19.187 | 46.000 |
| 563.500 | 19.112 | 9.403 | 28.515 | -17.485 | 46.000 |
| 597.450 | 19.917 | 12.997 | 32.914 | -13.086 | 46.000 |
| 713.850 | 20.577 | 8.063 | 28.640 | -17.360 | 46.000 |
| 901.150 | 22.041 | 10.490 | 32.532 | -13.468 | 46.000 |
| **Vertical** | | | | | |
| 250.680 | 13.346 | 12.404 | 25.750 | -20.250 | 46.000 |
| 384.050 | 16.822 | 11.518 | 28.340 | -17.660 | 46.000 |
| 612.000 | 21.748 | 4.592 | 26.340 | -19.660 | 46.000 |
| 750.220 | 23.184 | 7.076 | 30.260 | -15.740 | 46.000 |
| 801.150 | 21.828 | 11.222 | 33.050 | -12.950 | 46.000 |
| 876.330 | 22.617 | 3.503 | 26.120 | -19.880 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "  " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 374.350 | 16.016 | 7.516 | 23.532 | -22.468 | 46.000 |
| 476.200 | 18.910 | 6.960 | 25.870 | -20.130 | 46.000 |
| 563.500 | 19.112 | 6.273 | 25.385 | -20.615 | 46.000 |
| 682.330 | 20.917 | 5.484 | 26.401 | -19.599 | 46.000 |
| 801.150 | 21.771 | 10.892 | 32.663 | -13.337 | 46.000 |
| 876.330 | 21.967 | 6.103 | 28.070 | -17.930 | 46.000 |
| **Vertical** | | | | | |
| 384.050 | 16.822 | 9.828 | 26.650 | -19.350 | 46.000 |
| 481.050 | 18.586 | 6.974 | 25.560 | -20.440 | 46.000 |
| 604.720 | 21.811 | 4.689 | 26.500 | -19.500 | 46.000 |
| 750.220 | 23.184 | 7.386 | 30.570 | -15.430 | 46.000 |
| 801.150 | 21.828 | 11.122 | 32.950 | -13.050 | 46.000 |
| 876.330 | 22.617 | 6.603 | 29.220 | -16.780 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2412 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 260.380 | 14.514 | 13.400 | 27.914 | -18.086 | 46.000 |
| 464.080 | 18.667 | 9.053 | 27.720 | -18.280 | 46.000 |
| 498.020 | 18.413 | 10.437 | 28.850 | -17.150 | 46.000 |
| 599.880 | 20.000 | 10.891 | 30.891 | -15.109 | 46.000 |
| 687.170 | 21.022 | 8.838 | 29.860 | -16.140 | 46.000 |
| 801.150 | 21.771 | 12.552 | 34.323 | -11.677 | 46.000 |
| **Vertical** | | | | | |
| 384.050 | 16.822 | 10.398 | 27.220 | -18.780 | 46.000 |
| 481.050 | 18.586 | 8.244 | 26.830 | -19.170 | 46.000 |
| 624.120 | 21.210 | 5.000 | 26.210 | -19.790 | 46.000 |
| 687.170 | 20.371 | 10.968 | 31.340 | -14.660 | 46.000 |
| 801.150 | 21.828 | 11.062 | 32.890 | -13.110 | 46.000 |
| 827.830 | 21.428 | 8.032 | 29.460 | -16.540 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 226.430 | 10.510 | 12.591 | 23.101 | -22.899 | 46.000 |
| 401.020 | 16.644 | 7.002 | 23.646 | -22.354 | 46.000 |
| 563.500 | 19.112 | 9.073 | 28.185 | -17.815 | 46.000 |
| 599.880 | 20.000 | 12.271 | 32.271 | -13.729 | 46.000 |
| 675.080 | 20.789 | 9.564 | 30.353 | -15.647 | 46.000 |
| 932.100 | 22.840 | 9.780 | 32.620 | -13.380 | 46.000 |
| **Vertical** | | | | | |
| 393.750 | 17.620 | 6.790 | 24.410 | -21.590 | 46.000 |
| 488.330 | 18.566 | 7.884 | 26.450 | -19.550 | 46.000 |
| 595.030 | 21.868 | 4.222 | 26.090 | -19.910 | 46.000 |
| 750.220 | 23.184 | 6.916 | 30.100 | -15.900 | 46.000 |
| 876.330 | 22.617 | 5.763 | 28.380 | -17.620 | 46.000 |
| 941.800 | 23.800 | 6.850 | 30.650 | -15.350 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2462 MHz)

| Frequency | Correct Factor | Reading Level | Measurement Level | Margin | Limit |
|---|---|---|---|---|---|
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| **Horizontal** | | | | | |
| 333.120 | 14.272 | 11.248 | 25.520 | -20.480 | 46.000 |
| 500.450 | 18.352 | 10.876 | 29.228 | -16.772 | 46.000 |
| 597.450 | 19.917 | 11.917 | 31.834 | -14.166 | 46.000 |
| 653.220 | 20.881 | 9.752 | 30.633 | -15.367 | 46.000 |
| 721.120 | 20.929 | 7.181 | 28.110 | -17.890 | 46.000 |
| 801.150 | 21.771 | 11.822 | 33.593 | -12.407 | 46.000 |
| **Vertical** | | | | | |
| 257.950 | 14.277 | 10.733 | 25.010 | -20.990 | 46.000 |
| 384.050 | 16.822 | 9.678 | 26.500 | -19.500 | 46.000 |
| 495.600 | 18.480 | 7.330 | 25.810 | -20.190 | 46.000 |
| 684.750 | 20.297 | 7.603 | 27.900 | -18.100 | 46.000 |
| 801.150 | 21.828 | 11.942 | 33.770 | -12.230 | 46.000 |
| 827.830 | 21.428 | 7.692 | 29.120 | -16.880 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "  " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

# 5. Band Edge

## 5.1. Test Equipment

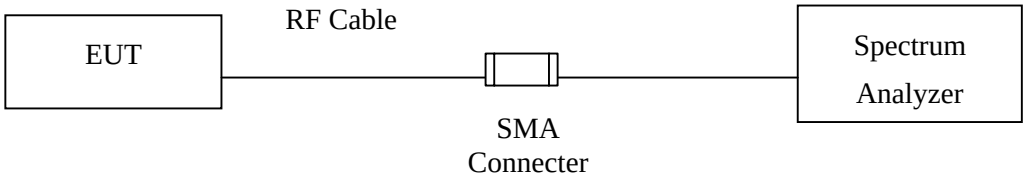
The following test equipments are used during the band edge tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|
| X | Spectrum Analyzer | HP | E4407B / US39440758 | May, 2005 |
| X | Test Receiver | R & S | ESCS 30 / 825442/14 | May, 2005 |
| X | Spectrum Analyzer | Advantest | R3261C / 71720140 | May, 2005 |
| X | Pre-Amplifier | HP | 8447D/3307A01812 | May, 2005 |
| X | Bilog Antenna | Chase | CBL6112B / 12452 | Sep., 2005 |
| X | Horn Antenna | EM | EM6917 / 103325 | May, 2005 |

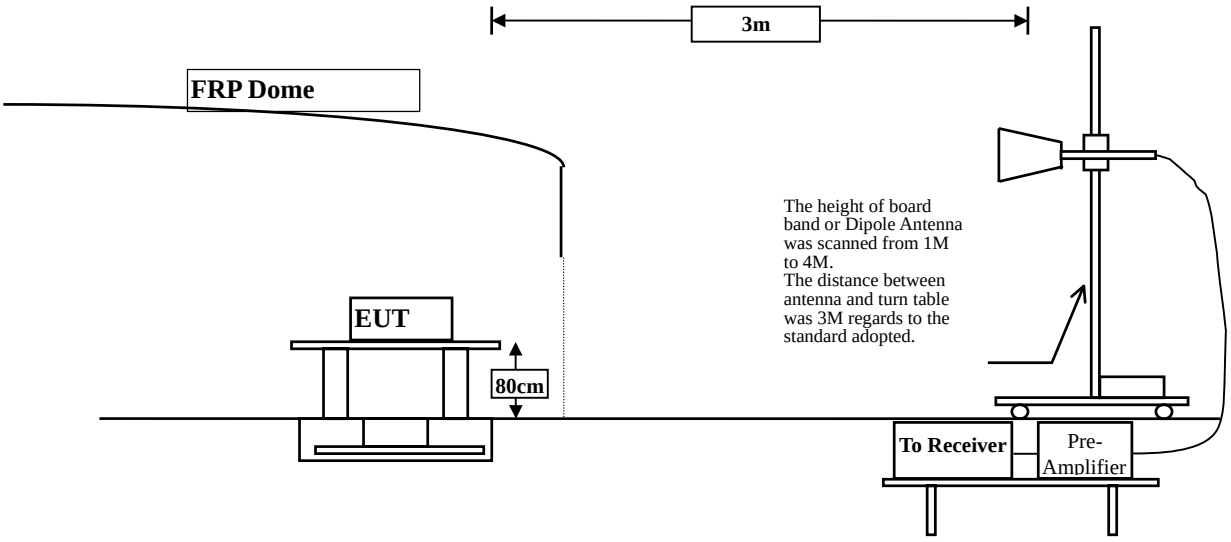
Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

## 5.2. Test Setup

**RF Conducted Measurement:**




**RF Radiated Measurement:**



## 5.3. Limits

In any 100 kHz 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 shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

## 5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30 )is 120 kHz, above 1GHz are 1 MHz.

## 5.5. Uncertainty

The measurement uncertainty Conducted is defined as ± 1 MHz and Radiated above 1GHz as ± 3.9 dB.

## 5.6. Test Result of Band Edge

Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Horizontal) | <2400 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2399.800 | 27.900 | 56.327 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2399.800 | 15.830 | 44.257 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Horizontal (Peak)**

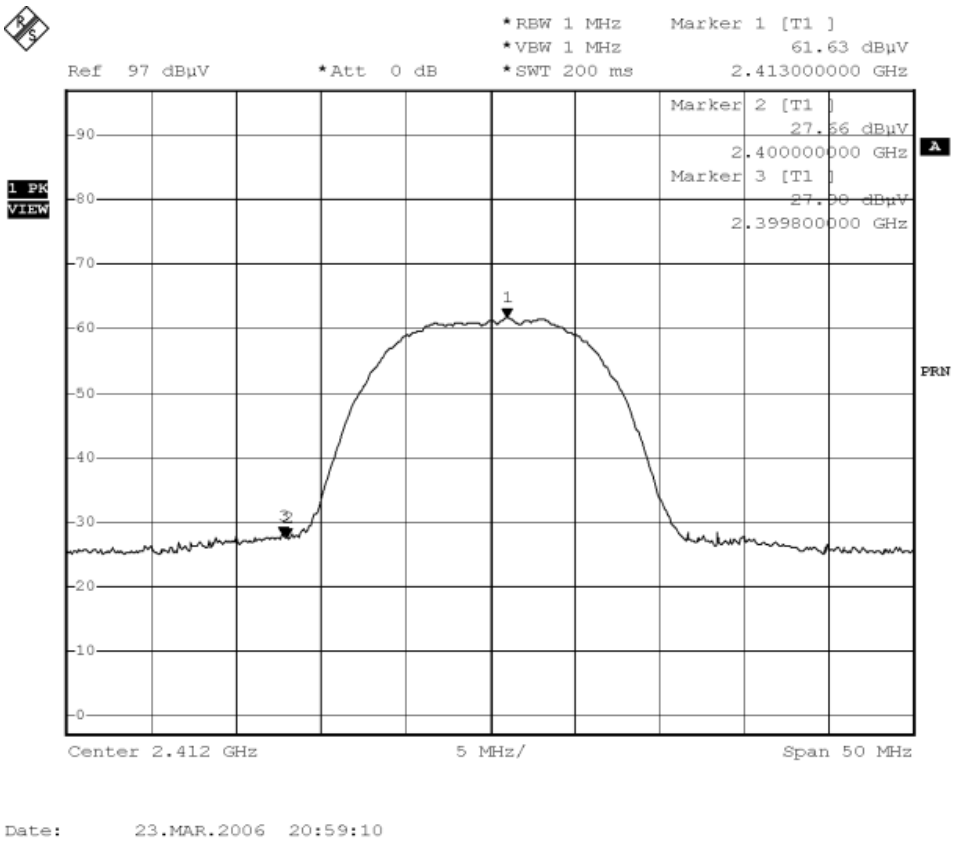
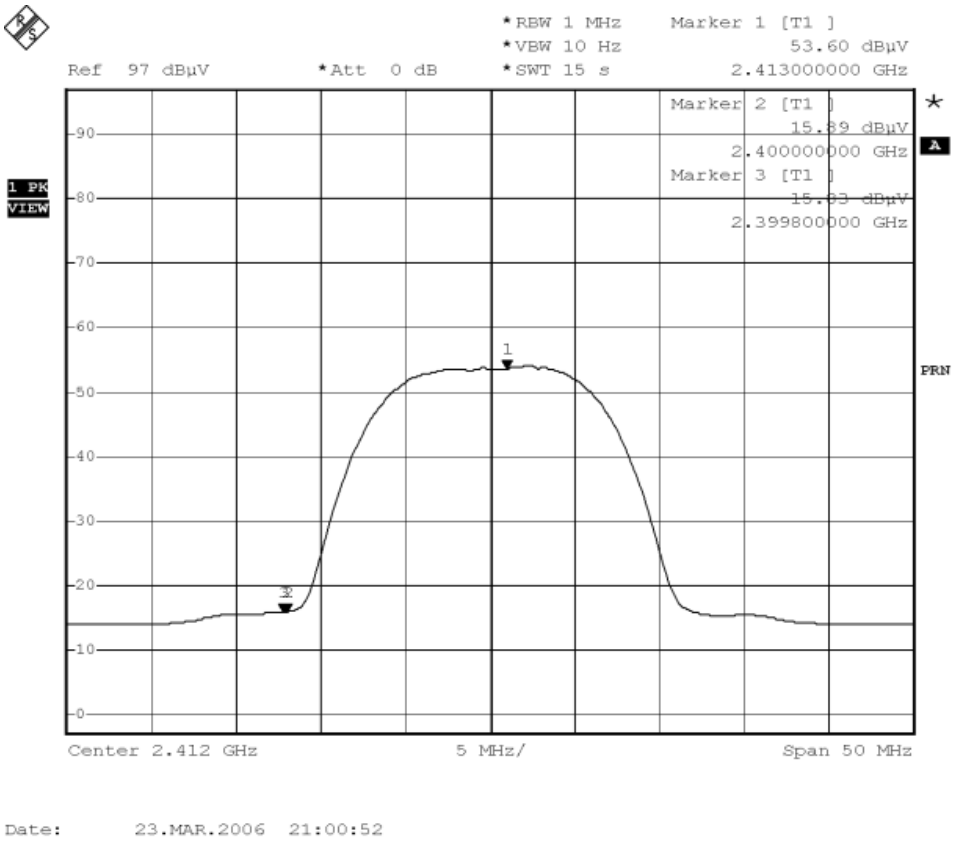


**Figure Channel 1:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Vertical) | <2400 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2400.000 | 38.090 | 64.918 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2400.000 | 25.220 | 52.048 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Vertical (Peak)**

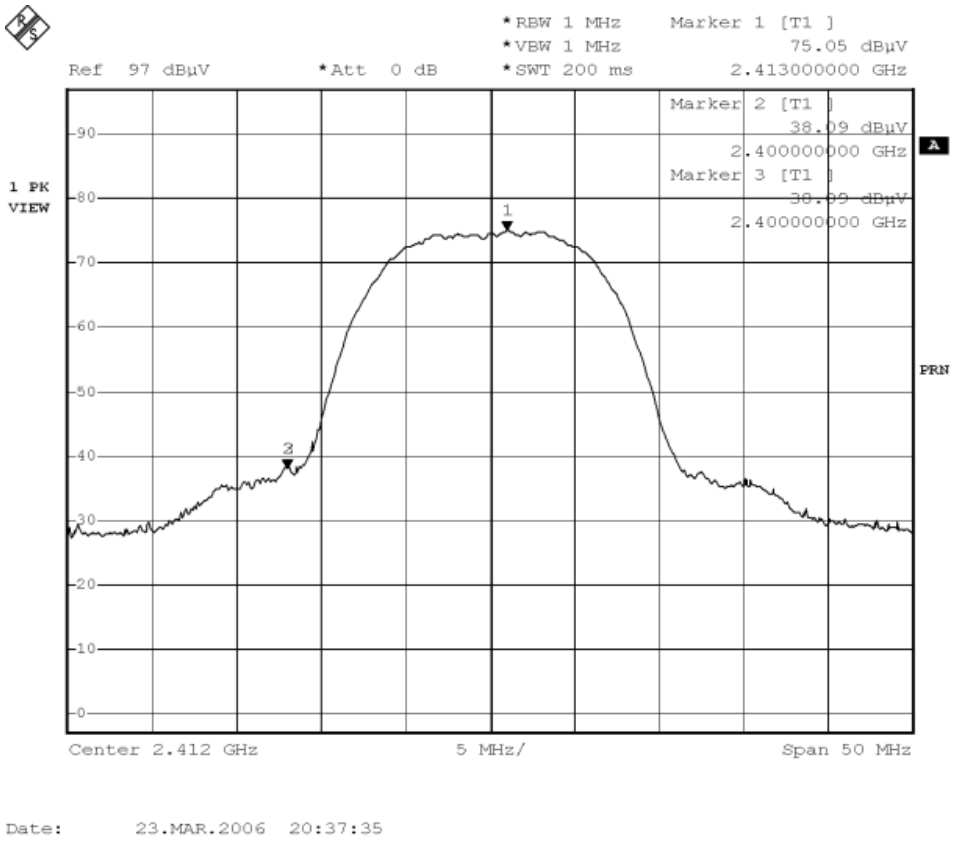
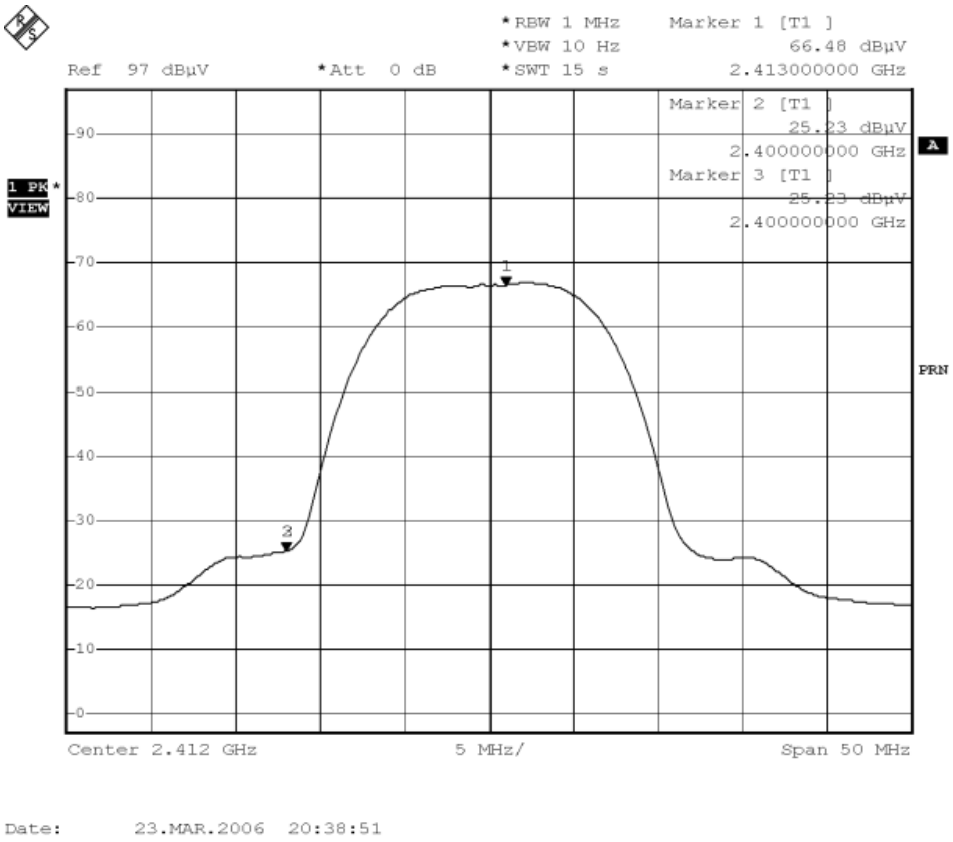


**Figure Channel 1:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Horizontal) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11(Peak) | 2489.000 | 26.510 | 55.240 | 74.00 | 54.00 | Pass |
| 11(Average) | 2489.000 | 13.880 | 42.610 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Horizontal (Peak)**

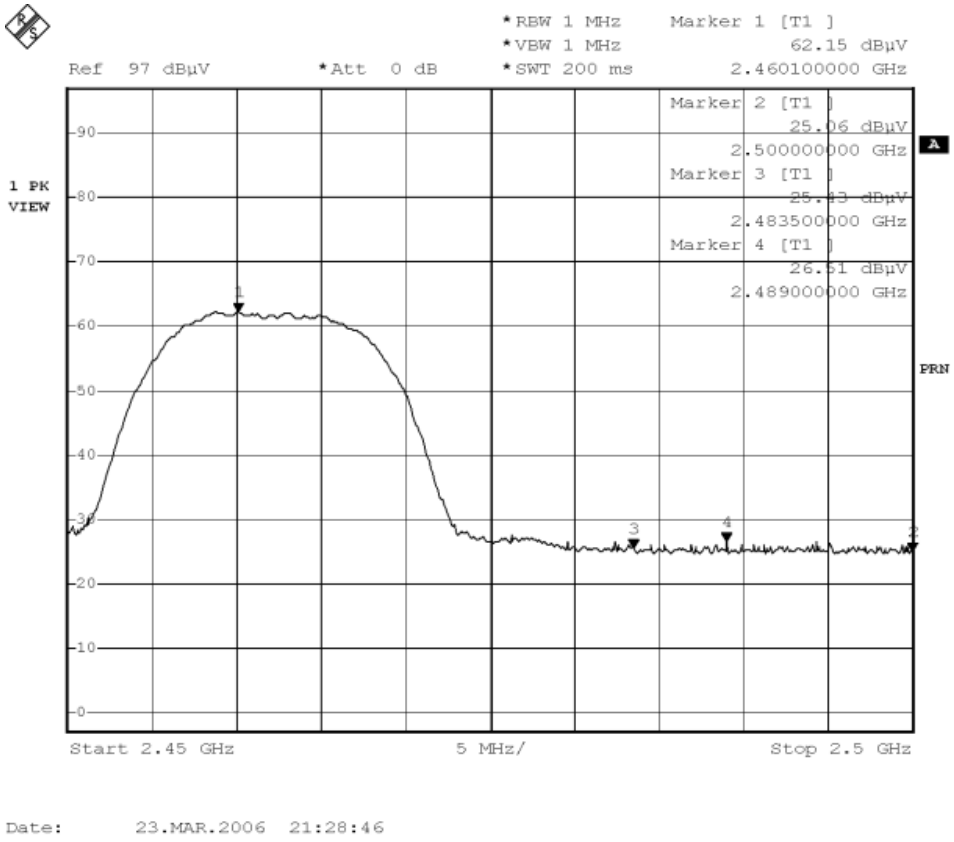
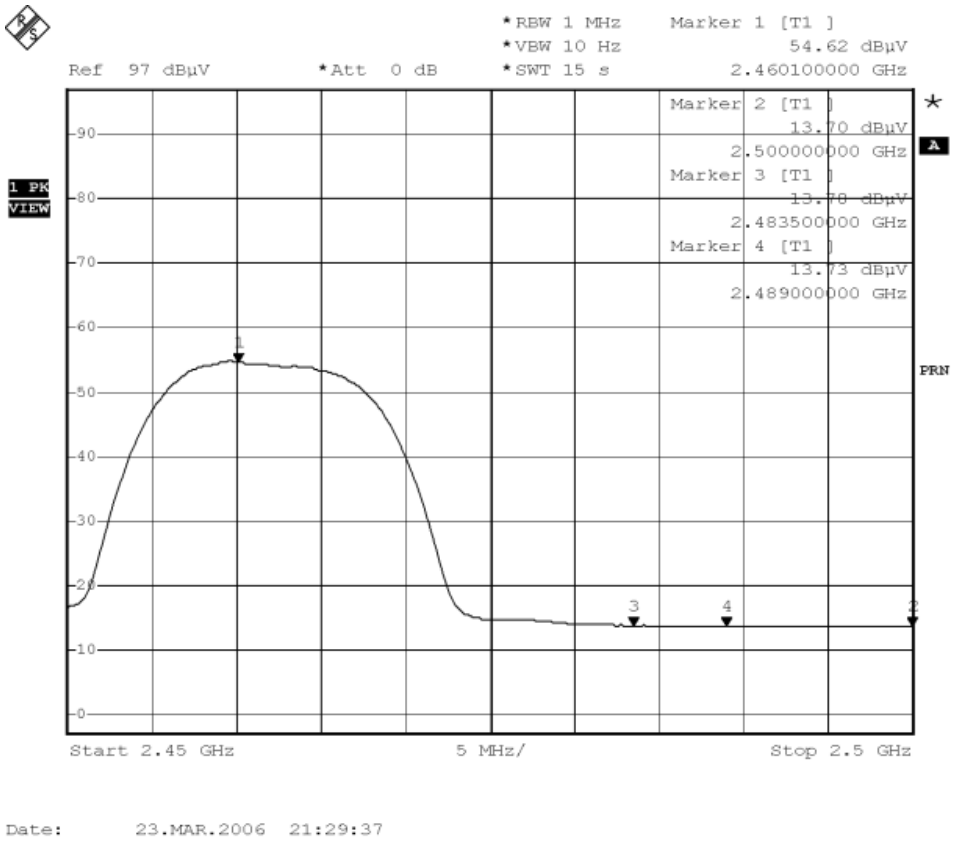


**Figure Channel 11:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Vertical) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11(Peak) | 2487.600 | 30.980 | 58.105 | 74.00 | 54.00 | Pass |
| 11(Average) | 2487.600 | 18.340 | 45.465 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Vertical (Peak)**

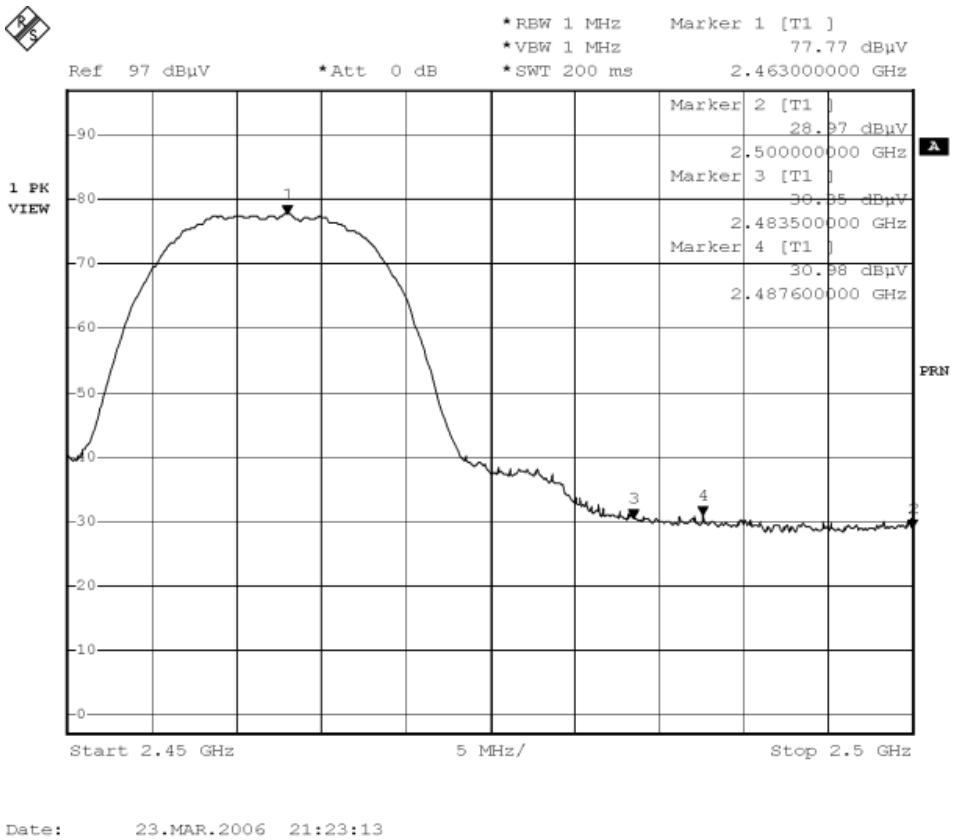
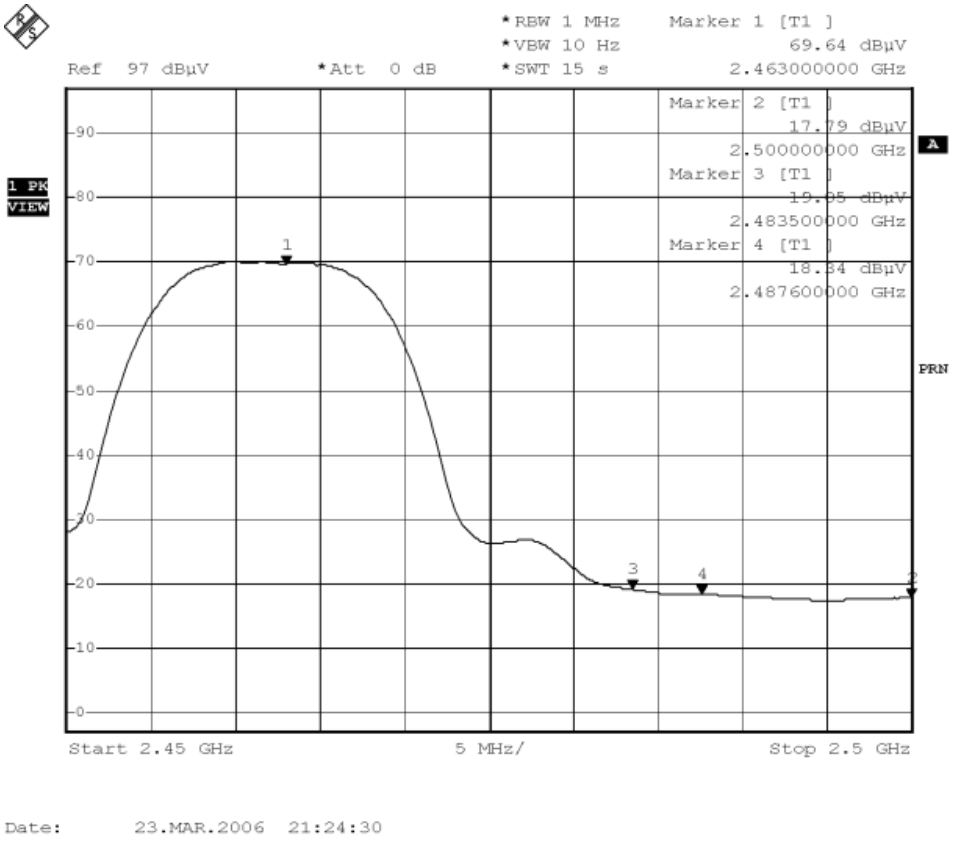


**Figure Channel 11:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Horizontal) | <2400 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2399.700 | 26.660 | 55.087 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2399.700 | 14.500 | 42.927 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Horizontal (Peak)**

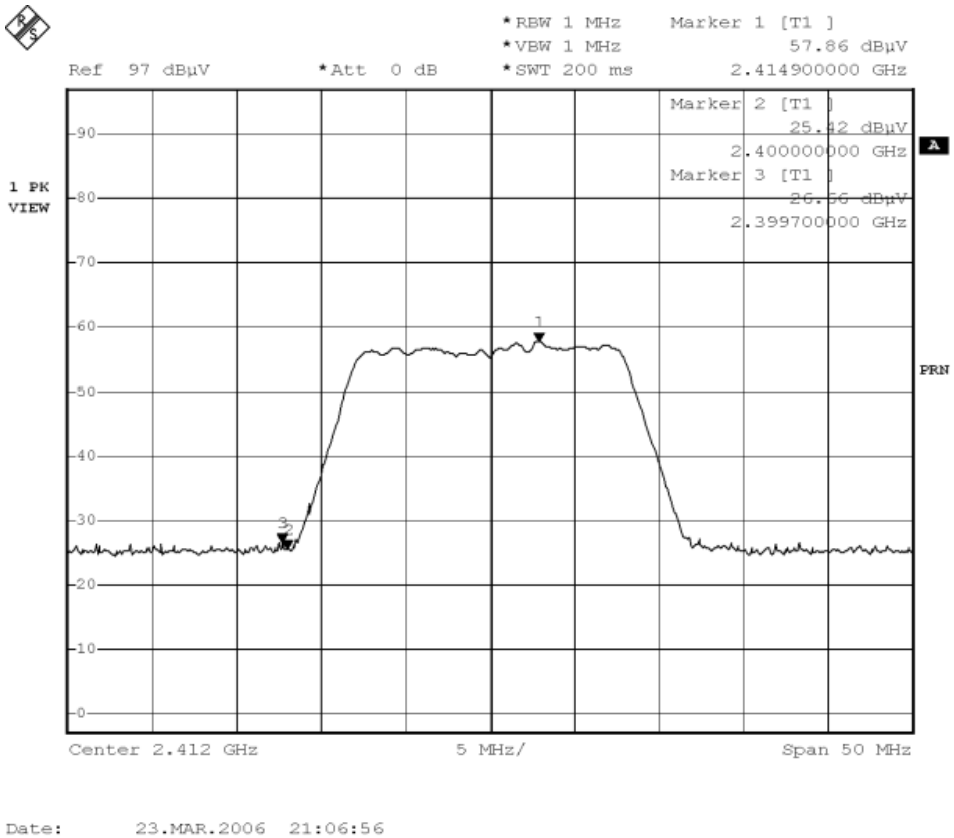
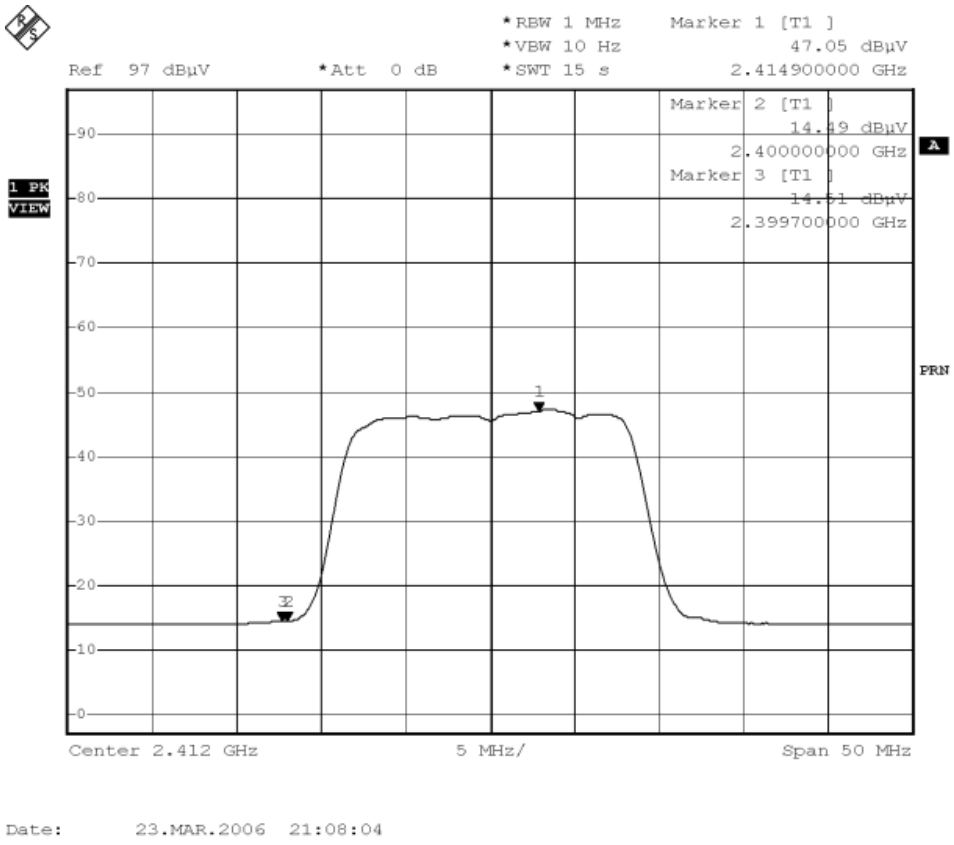


**Figure Channel 1:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Vertical) | <2400 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2400.000 | 33.690 | 60.518 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2400.000 | 21.440 | 48.268 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Vertical (Peak)**

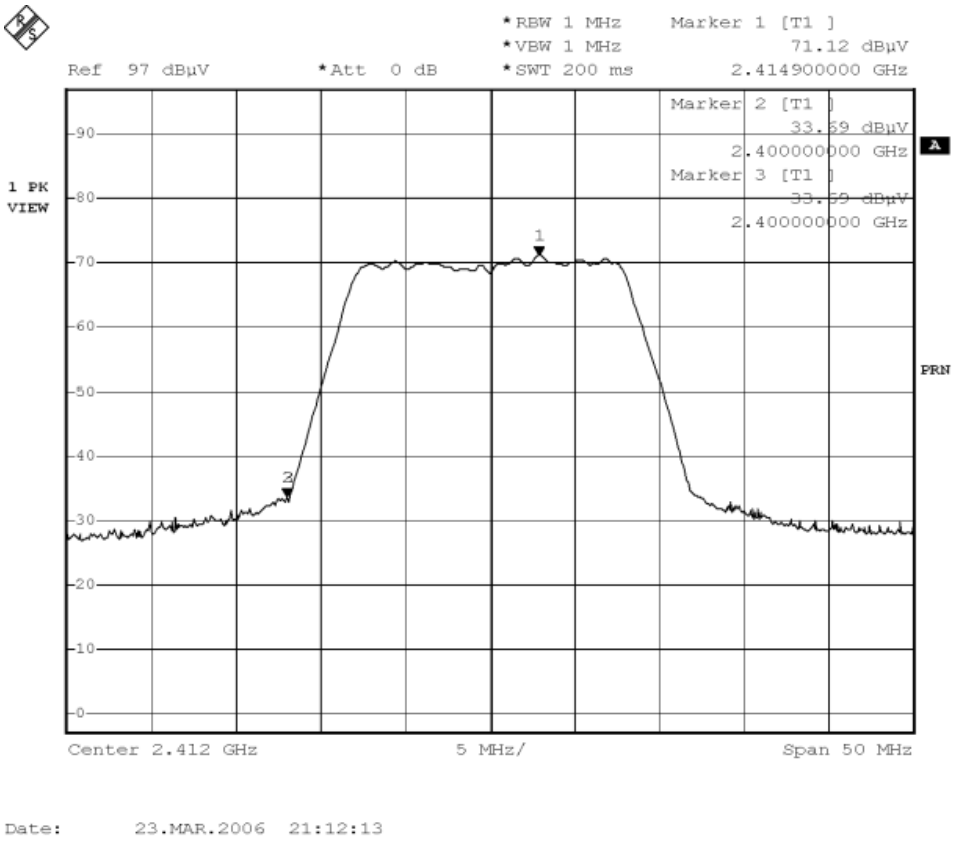
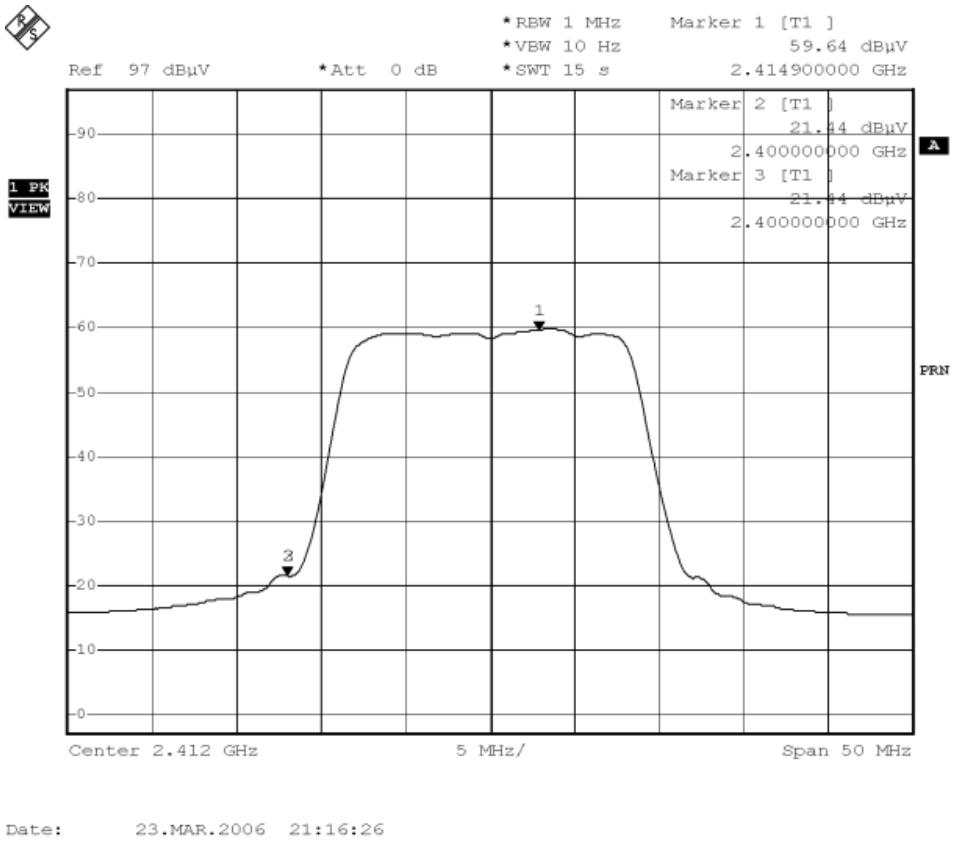


**Figure Channel 1:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Horizontal) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11 (Peak) | 2483.600 | 27.280 | 55.992 | 74.00 | 54.00 | Pass |
| 11(Average) | 2483.600 | 13.930 | 42.642 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Horizontal (Peak)**

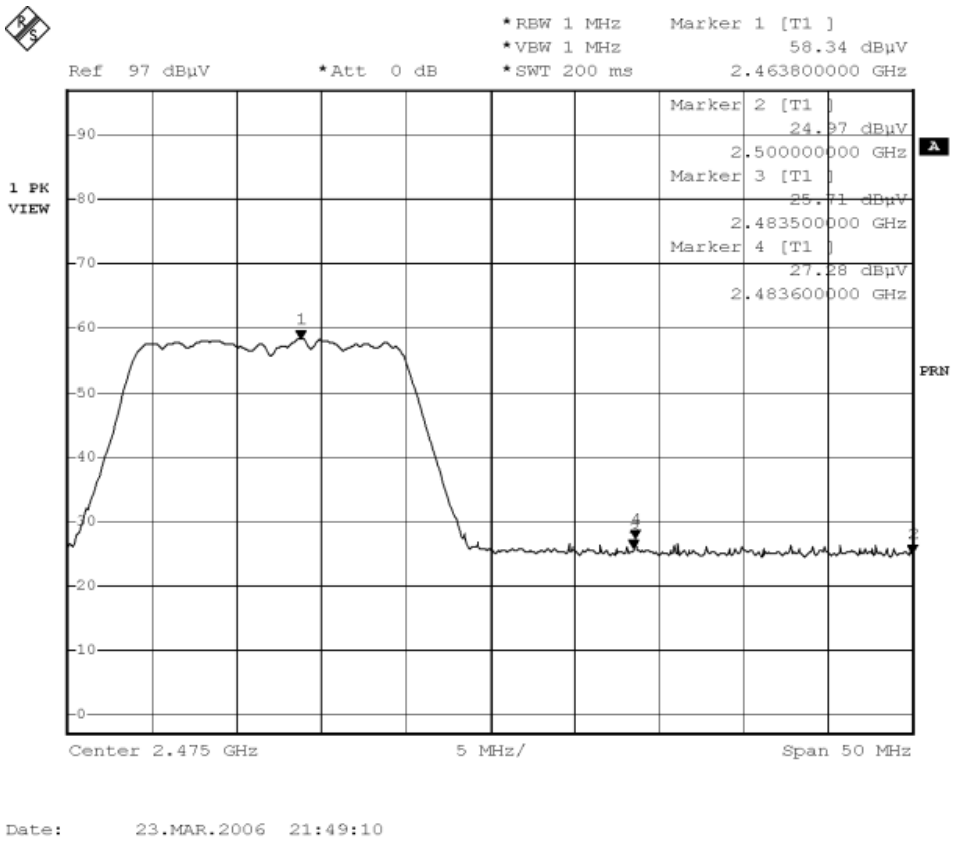
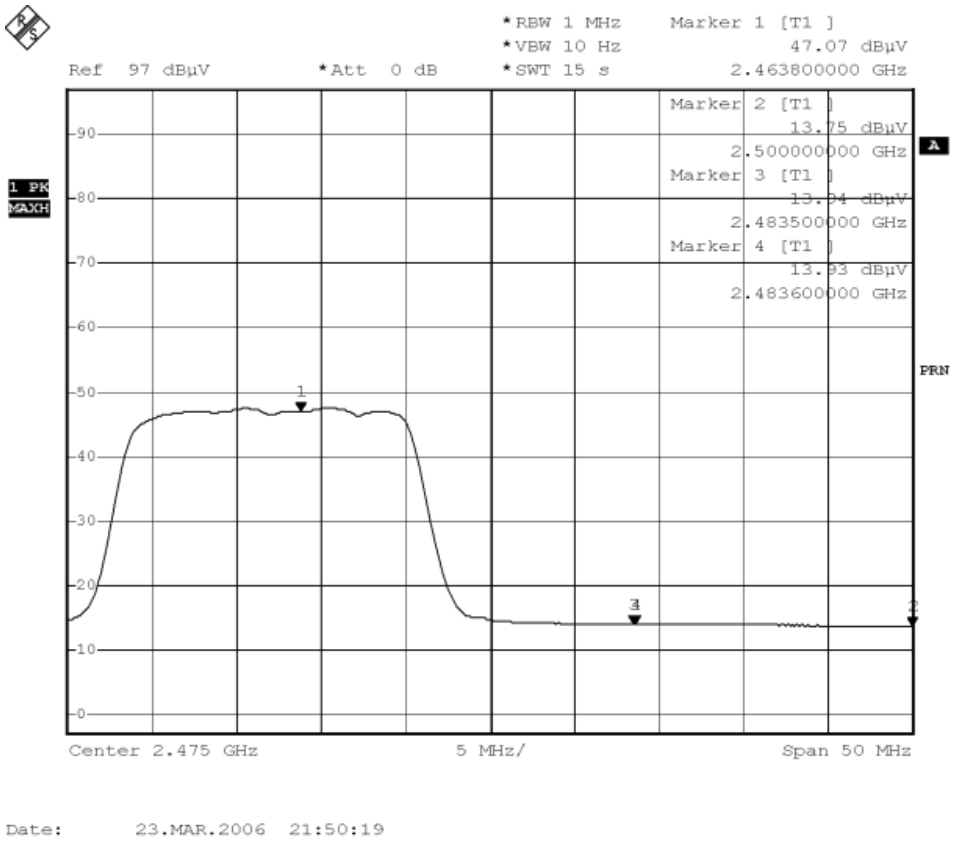


**Figure Channel 11: Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Vertical) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11 (Peak) | 2484.800 | 30.780 | 57.896 | 74.00 | 54.00 | Pass |
| 11(Average) | 2484.800 | 17.950 | 45.066 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Vertical (Peak)**

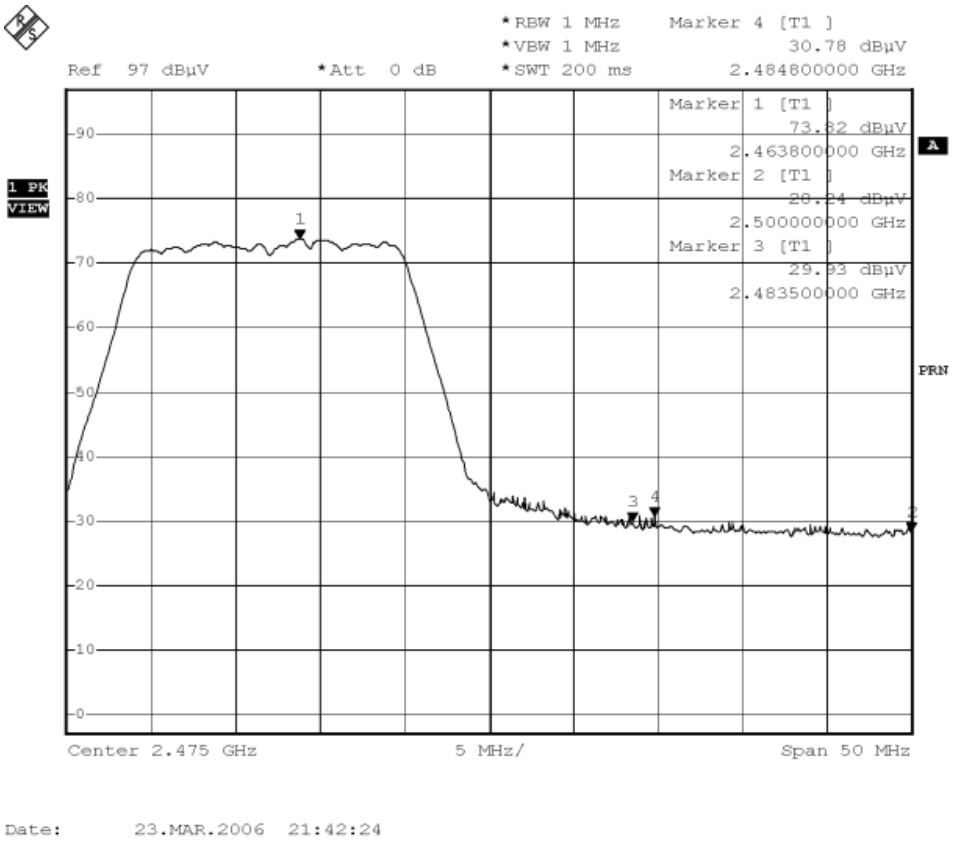
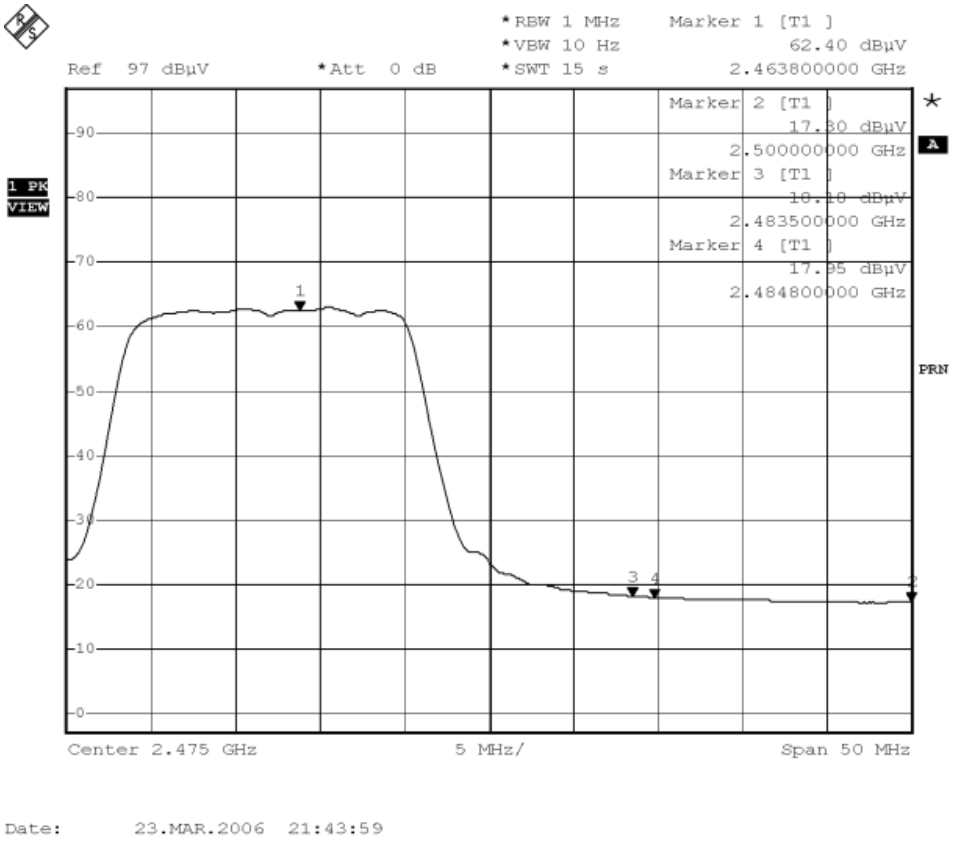


**Figure Channel 11:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Horizontal) | <2400 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2395.200 | 26.190 | 54.604 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2395.200 | 14.000 | 42.414 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Horizontal (Peak)**

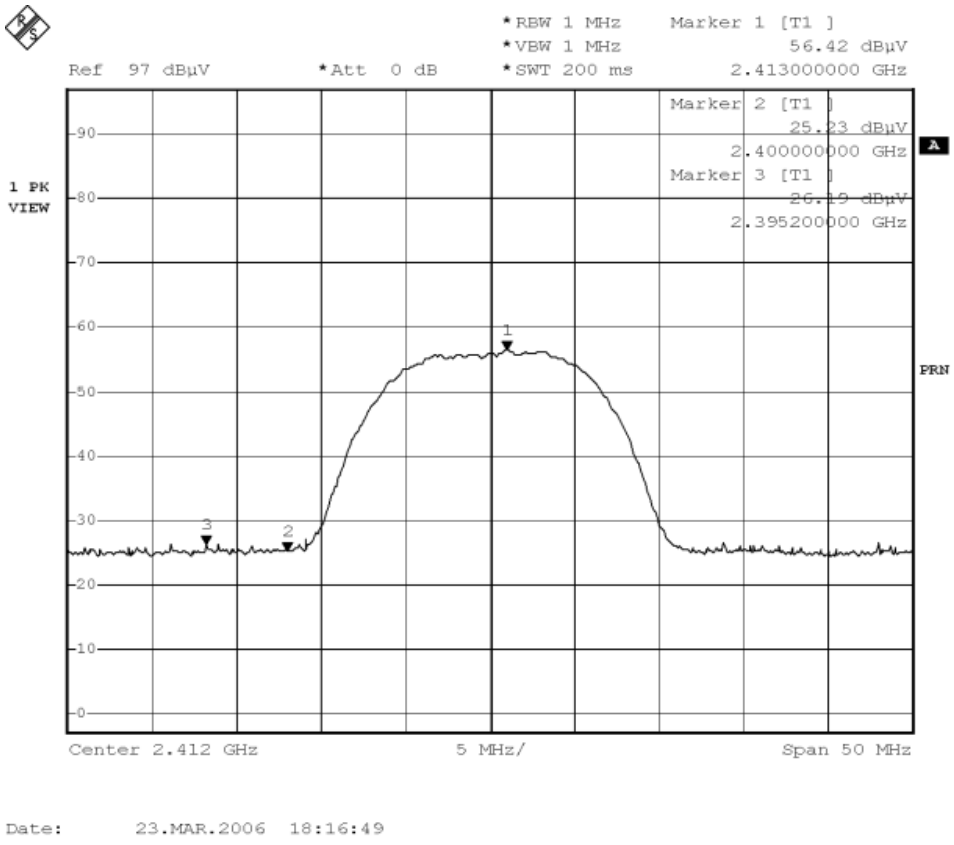
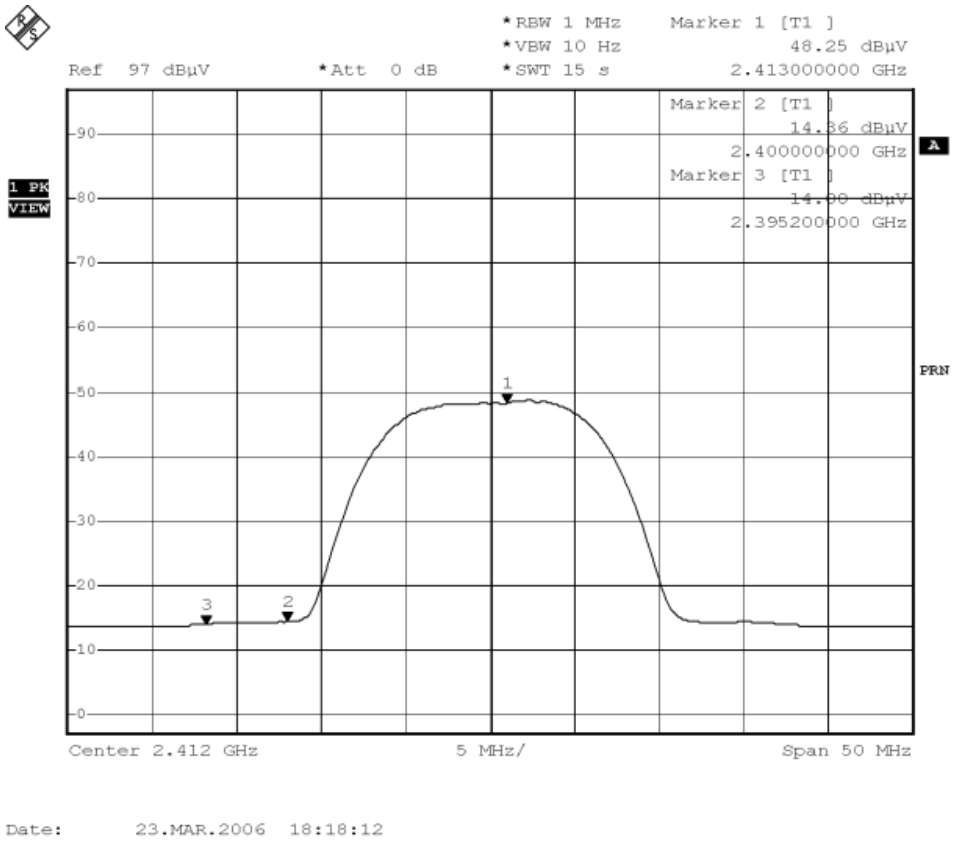


**Figure Channel 1:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Vertical) | <2400 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2399.700 | 28.950 | 55.777 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2399.700 | 16.500 | 43.327 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Vertical (Peak)**

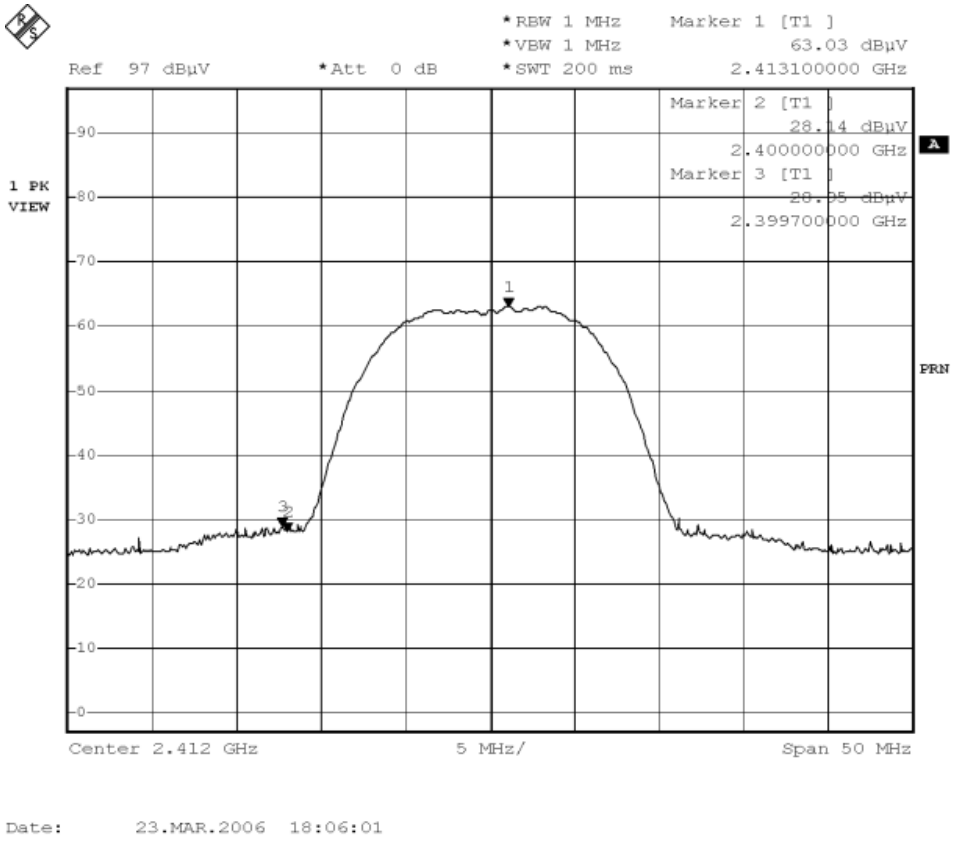
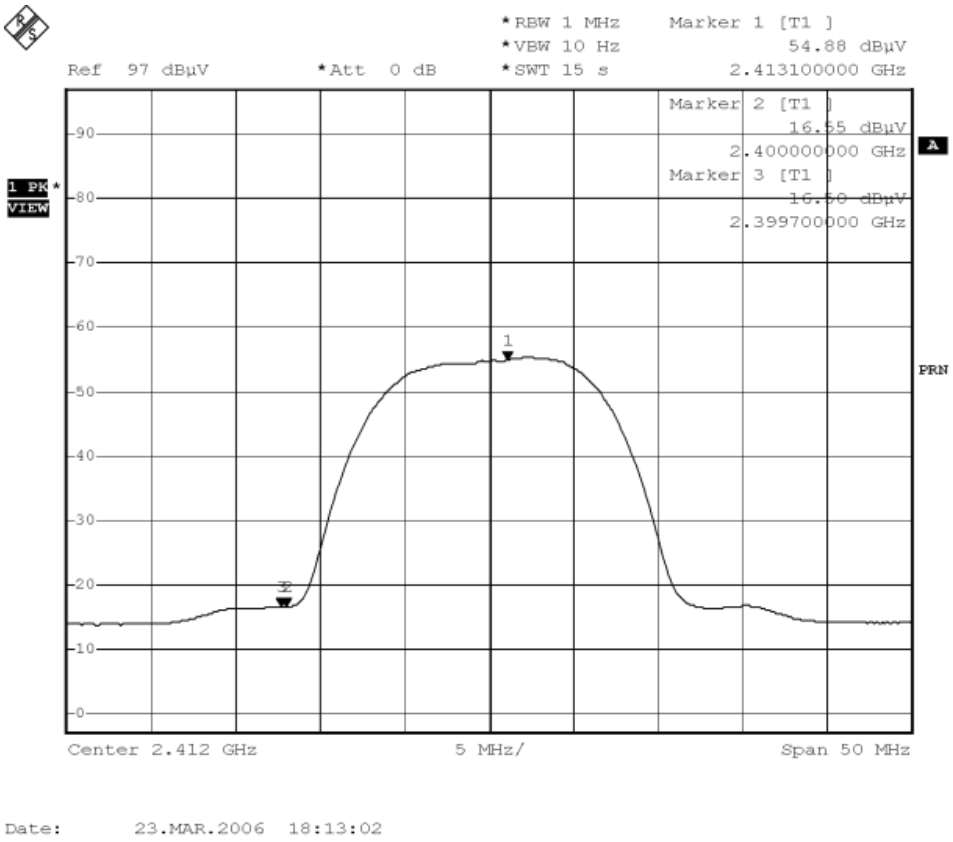


**Figure Channel 1:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Horizontal) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11(Peak) | 2493.600 | 25.960 | 54.705 | 74.00 | 54.00 | Pass |
| 11(Average) | 2493.600 | 13.710 | 42.455 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Horizontal (Peak)**

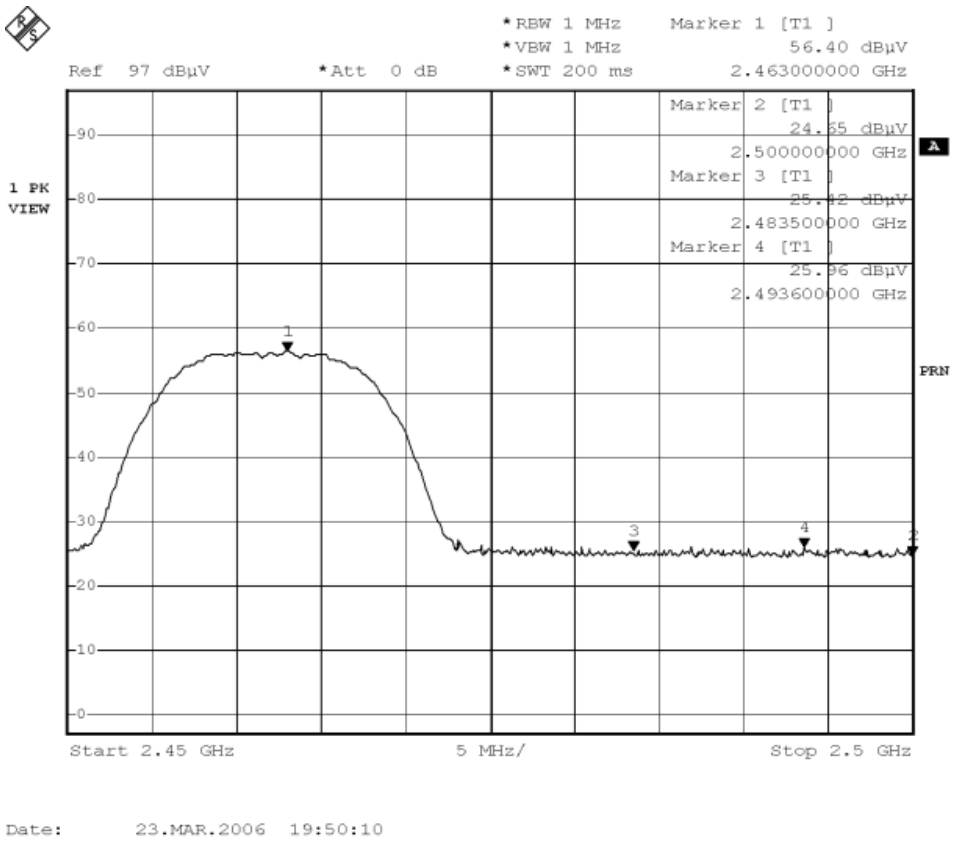
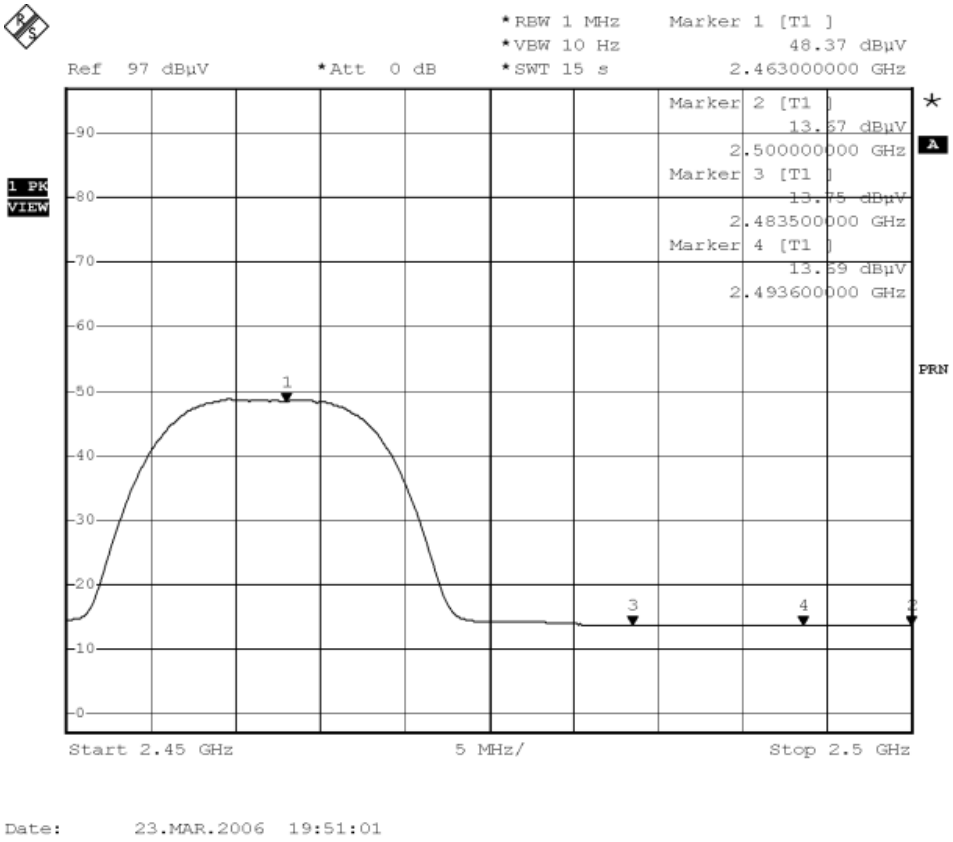


**Figure Channel 11:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Vertical) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11(Peak) | 2487.800 | 26.590 | 53.716 | 74.00 | 54.00 | Pass |
| 11(Average) | 2487.800 | 13.960 | 41.086 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Vertical (Peak)**

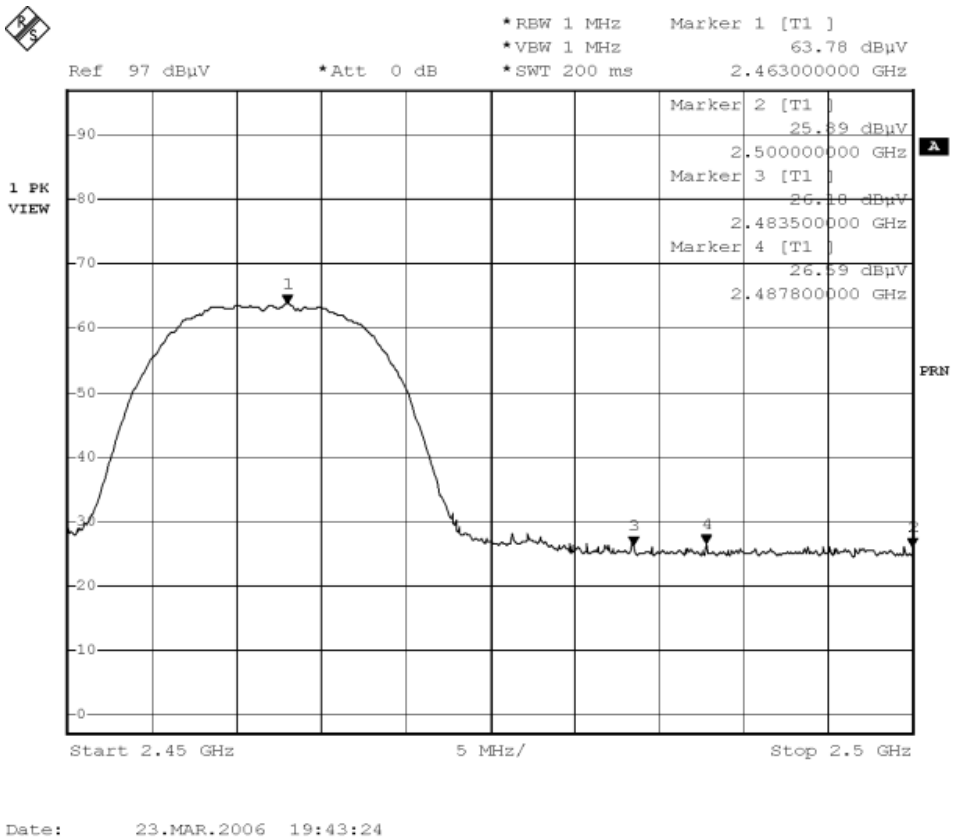
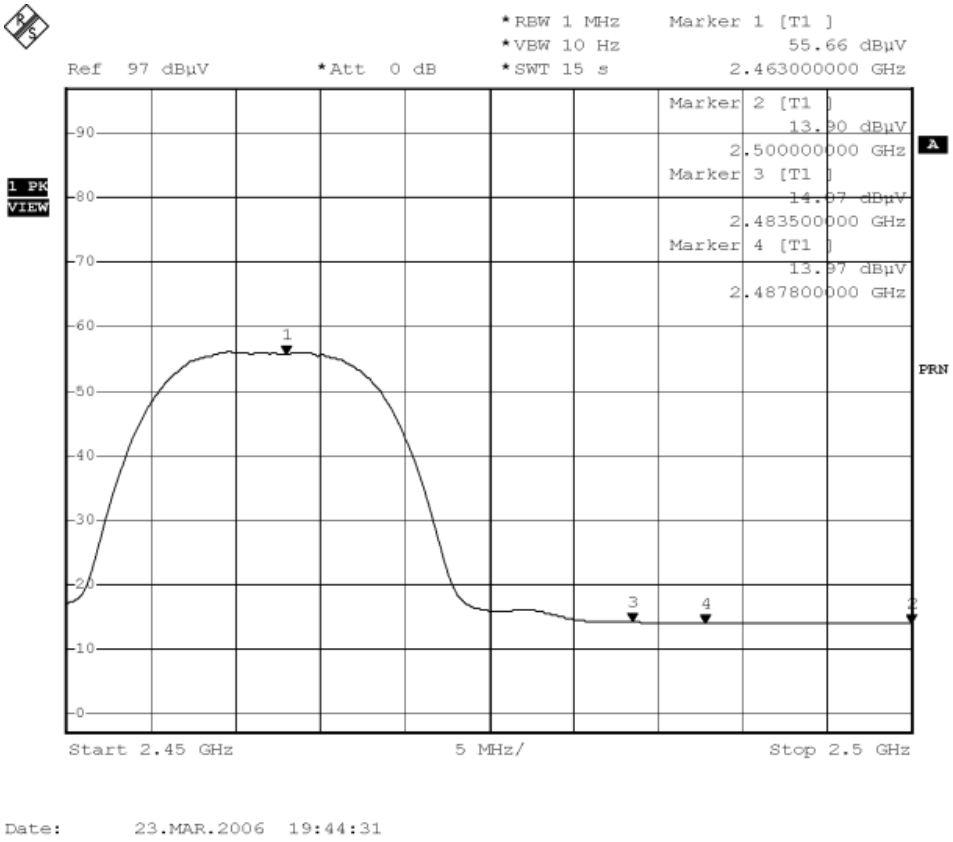


**Figure Channel 11:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Horizontal) | <2400 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2397.500 | 26.360 | 54.780 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2397.500 | 13.700 | 42.120 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Horizontal (Peak)**

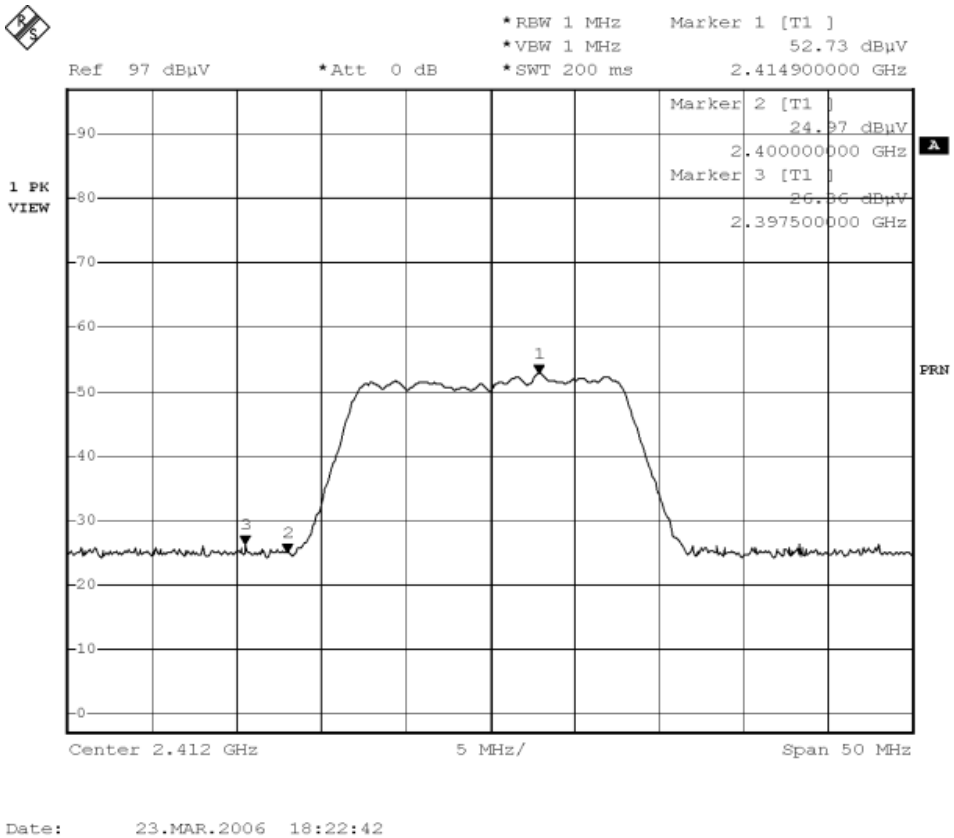
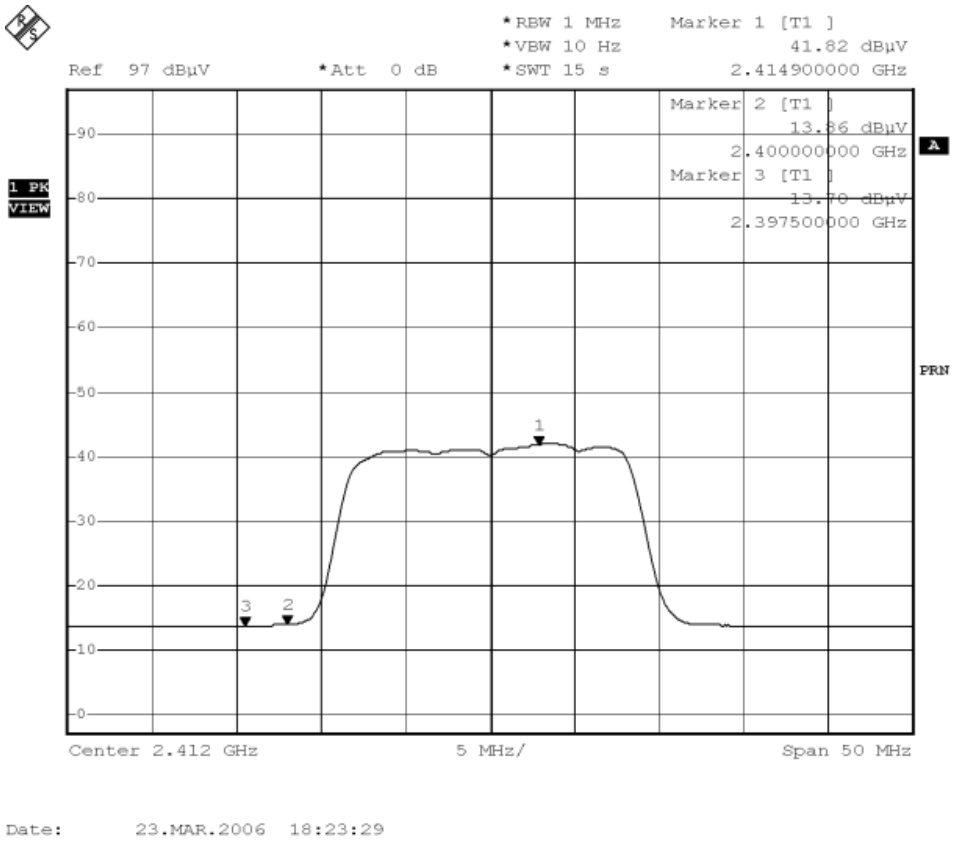


**Figure Channel 1:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 1 (Vertical) | <2400 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 1 (Peak) | 2399.600 | 27.470 | 54.296 | 74.00 | 54.00 | Pass |
| 1 (Average) | 2399.600 | 15.280 | 42.106 | 74.00 | 54.00 | Pass |

**Figure Channel 1: Vertical (Peak)**

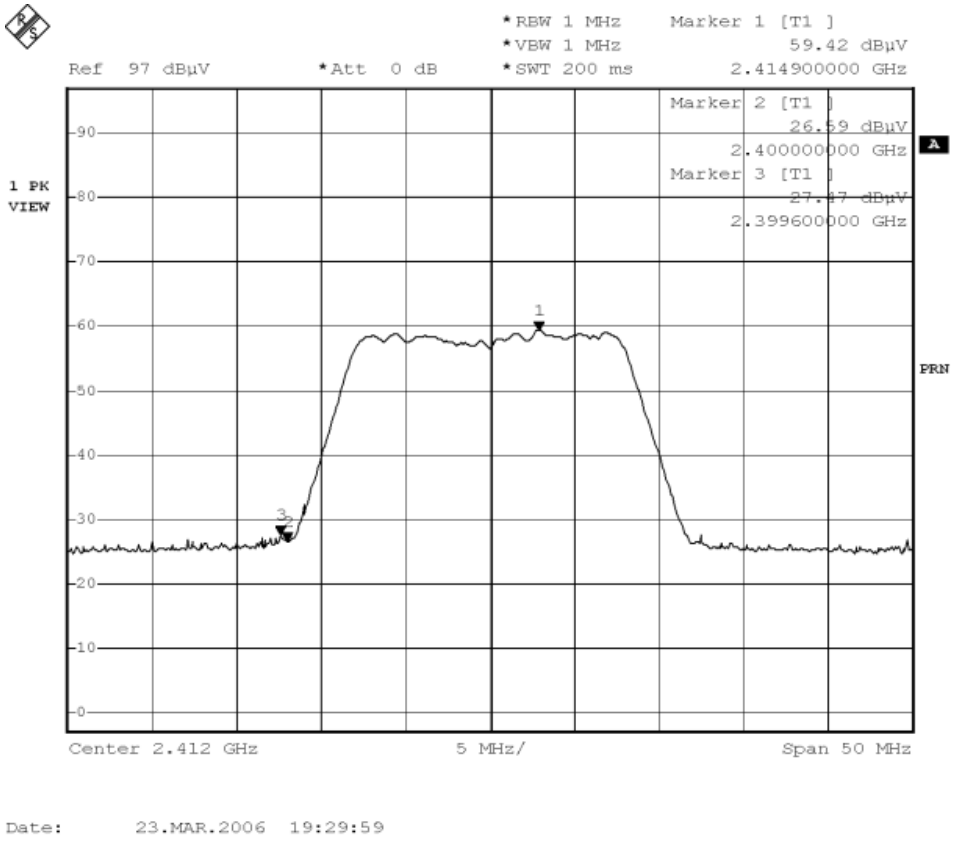
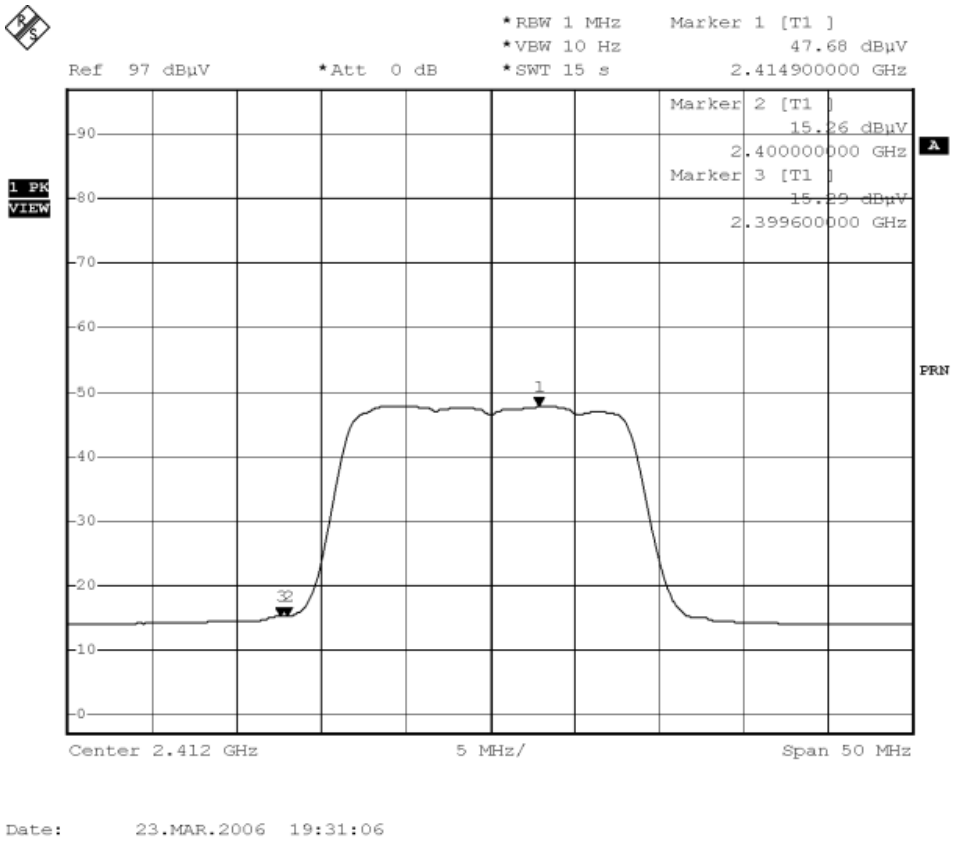


**Figure Channel 1:** **Vertical (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Horizontal) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Horizontal):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11 (Peak) | 2497.300 | 25.450 | 54.206 | 74.00 | 54.00 | Pass |
| 11(Average) | 2497.300 | 13.683 | 42.439 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Horizontal (Peak)**

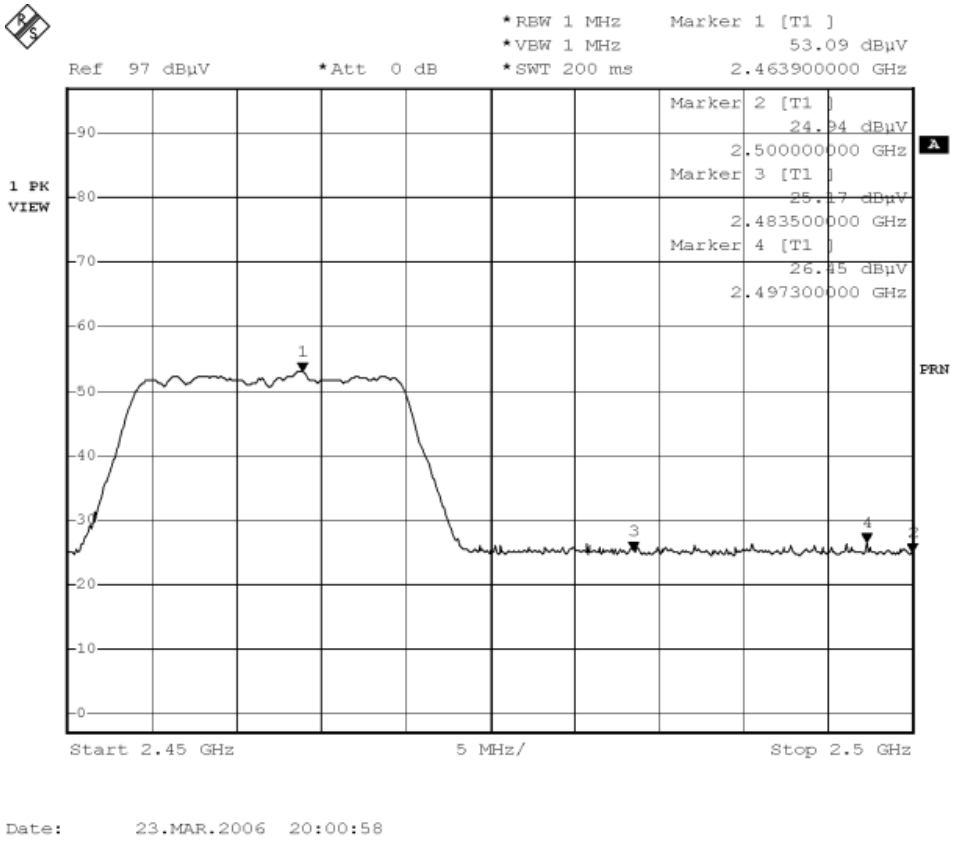
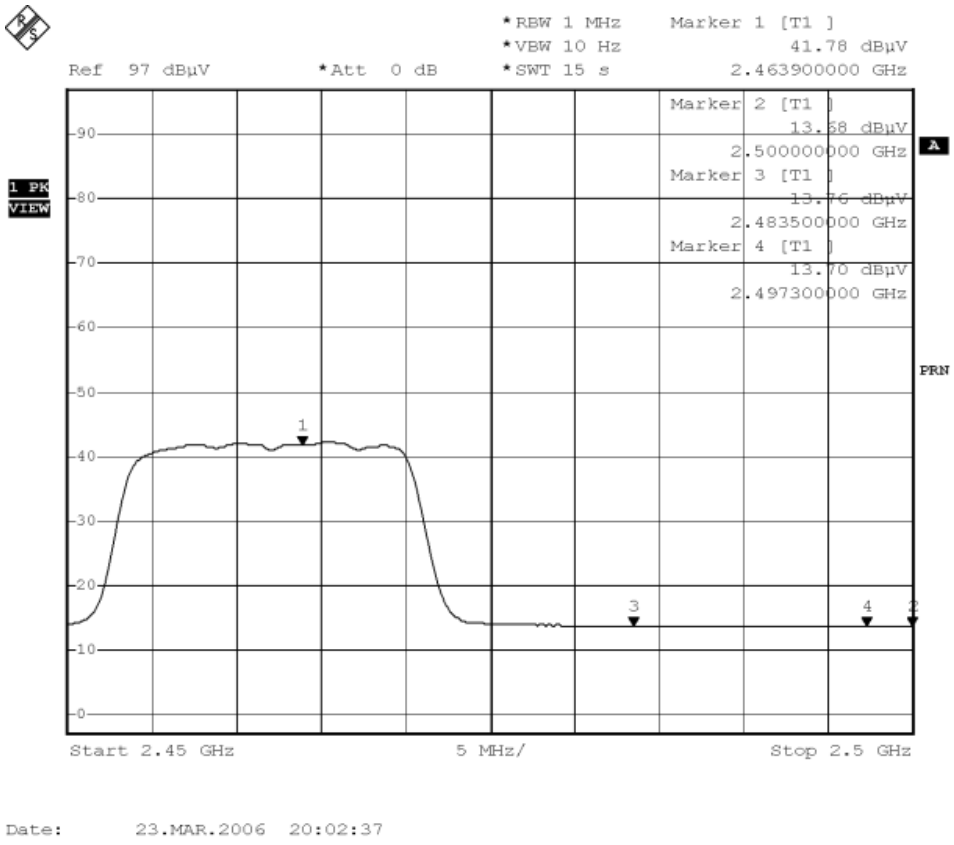


**Figure Channel 11:** **Horizontal (Average)**



Product : Wireless LAN Card
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

**RF Radiated Measurement:**

| Channel No. | Frequency (MHz) | Required Limit (dBc) | Result |
|---|---|---|---|
| 11 (Horizontal) | >2483.5 | >20 | Pass |

**RF Radiated Measurement (Vertical):**

| Channel No. | Frequency (MHz) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Arerage Limit (dBuV/m) | Result |
|---|---|---|---|---|---|---|
| 11 (Peak) | 2485.300 | 27.500 | 54.617 | 74.00 | 54.00 | Pass |
| 11(Average) | 2485.300 | 13.960 | 41.077 | 74.00 | 54.00 | Pass |

**Figure Channel 11: Vertical (Peak)**

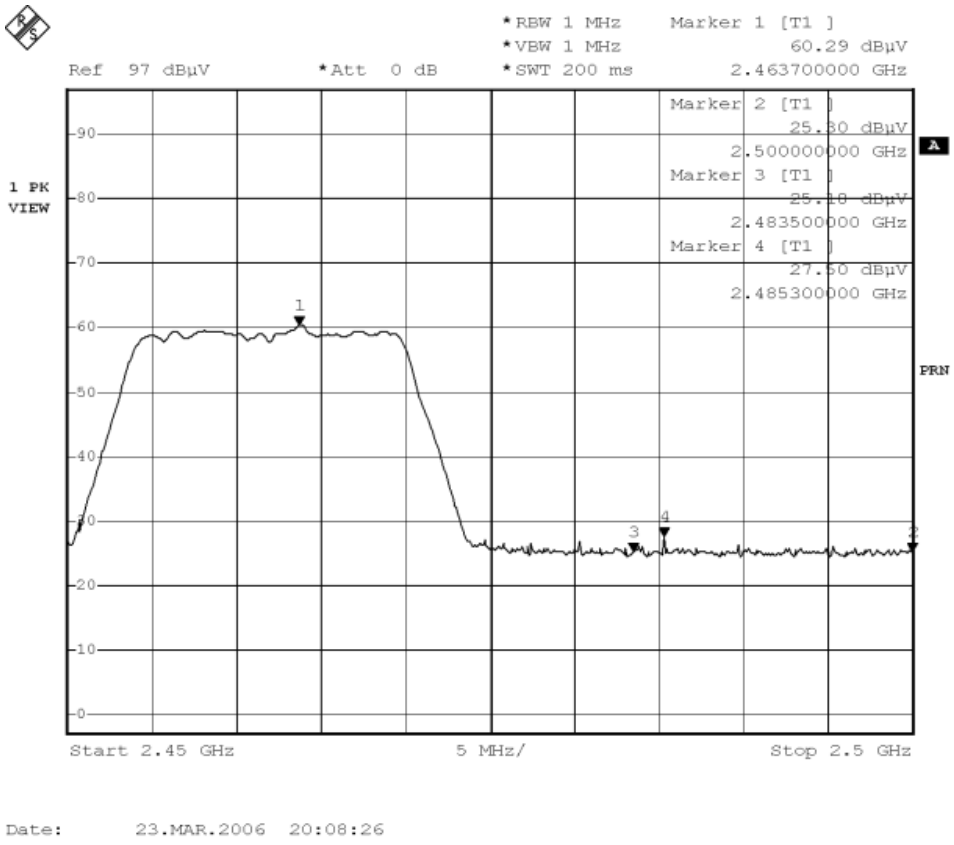
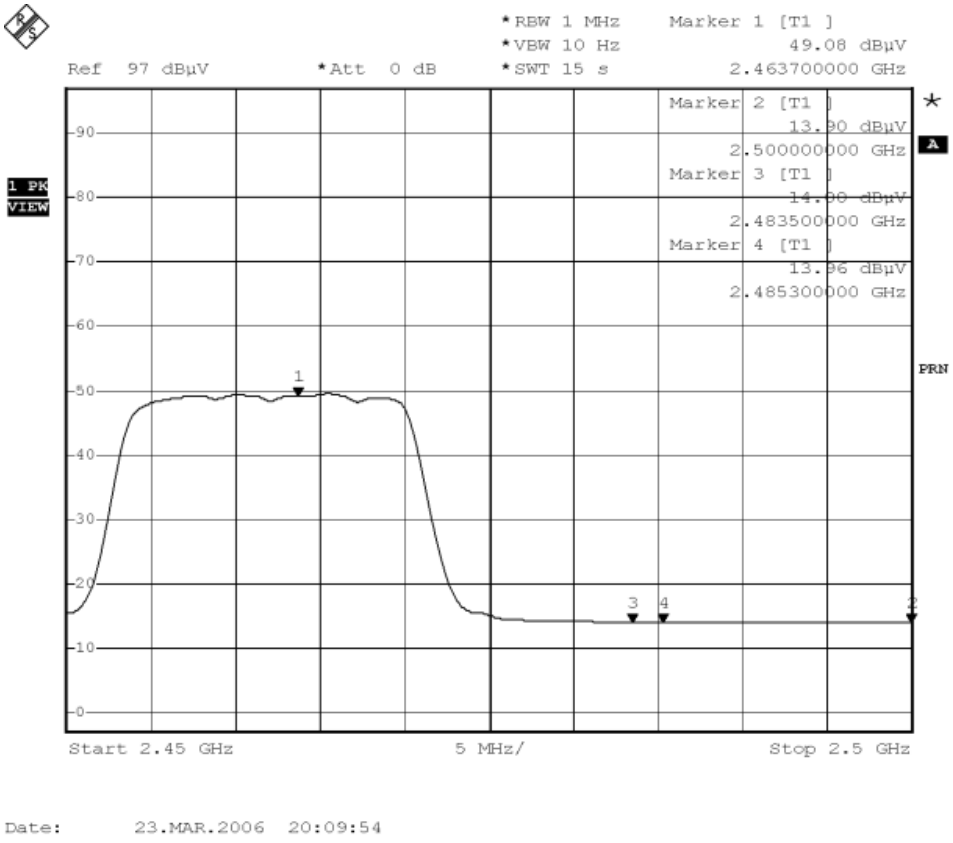


**Figure Channel 11:** **Vertical (Average)**




Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

# 6. Occupied Bandwidth

## 6.1. Test Equipment

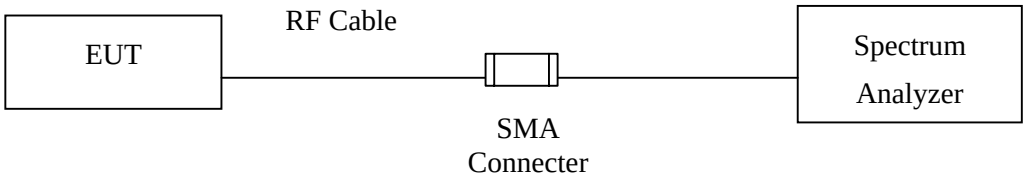
The following test equipments are used during the radiated emission tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|
| X | Test Receiver | R & S | ESI 26 / 838786 / 004 | May, 2005 |

Note: 1. All instruments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

## 6.2. Test Setup




## 6.3. Limits

The minimum bandwidth shall be at least 500kHz.

## 6.4. Uncertainty

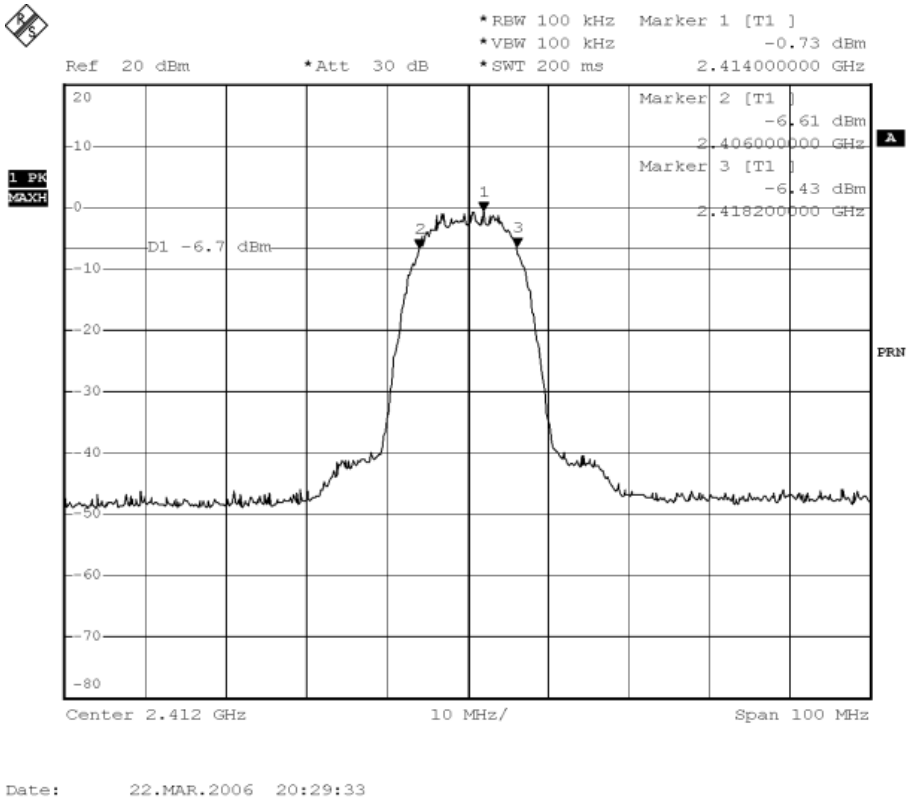
The measurement uncertainty is defined as ± 1.27 dB

## 6.5. Test Result of Occupied Bandwidth

Product : Wireless LAN Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|---|---|---|---|---|
| 1 (11Mbps) | 2412.00 | 12200 | >500 | Pass |

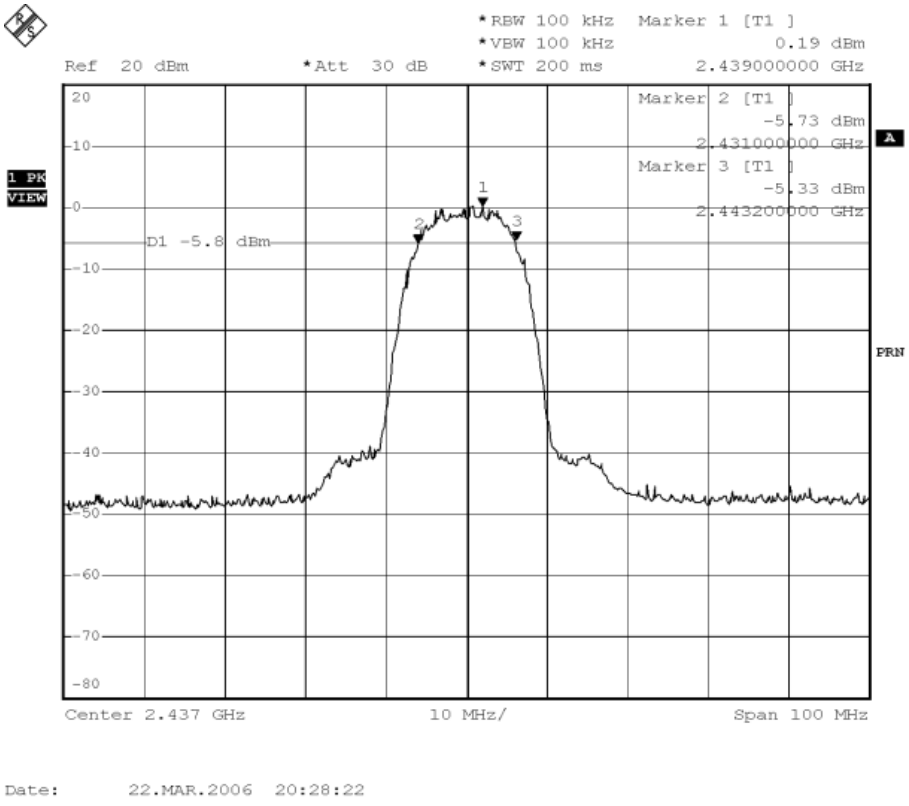
**Figure Channel 1:** 11Mbps



Product : Wireless LAN Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|---|---|---|---|---|
| 6 (11Mbps) | 2437.00 | 12200 | >500 | Pass |

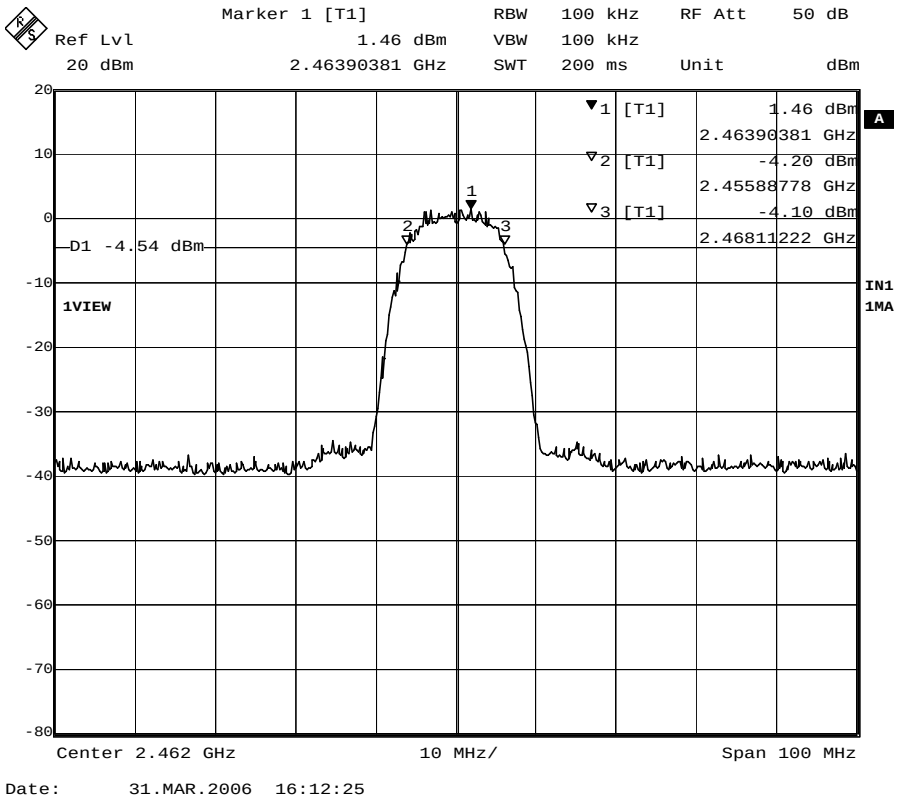
**Figure Channel 6:** 11Mbps



Product : Wireless LAN Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|---|---|---|---|---|
| 11 (11Mbps) | 2462.00 | 12225 | >500 | Pass |

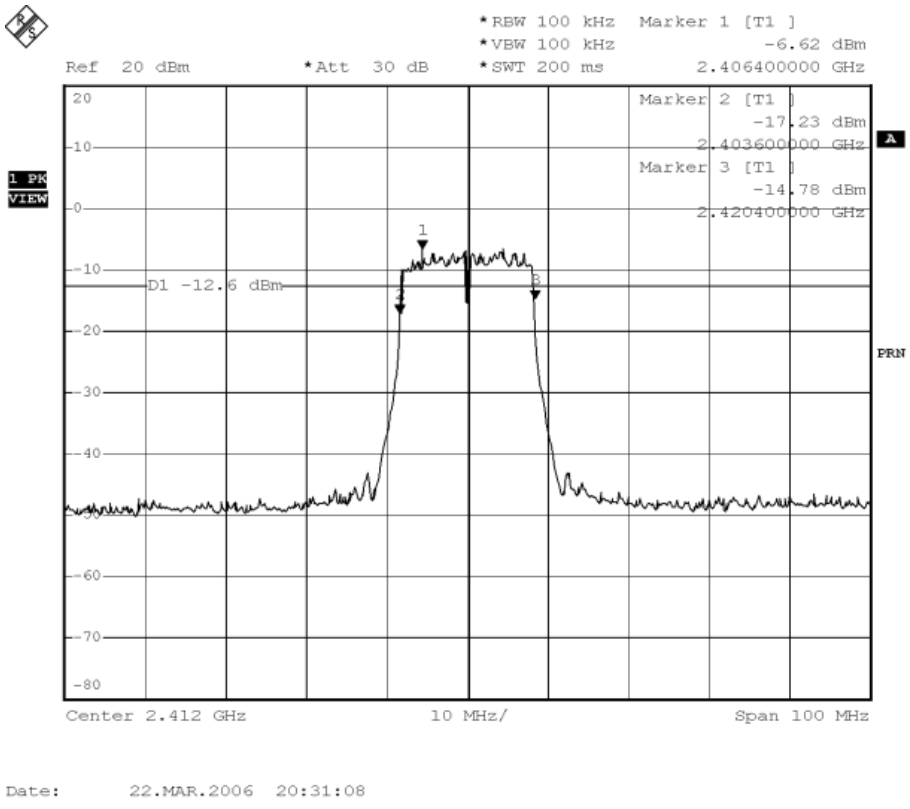
**Figure Channel 11:** 11Mbps



Product : Wireless LAN Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|---|---|---|---|---|
| 1 (54Mbps) | 2412.00 | 16800 | >500 | Pass |

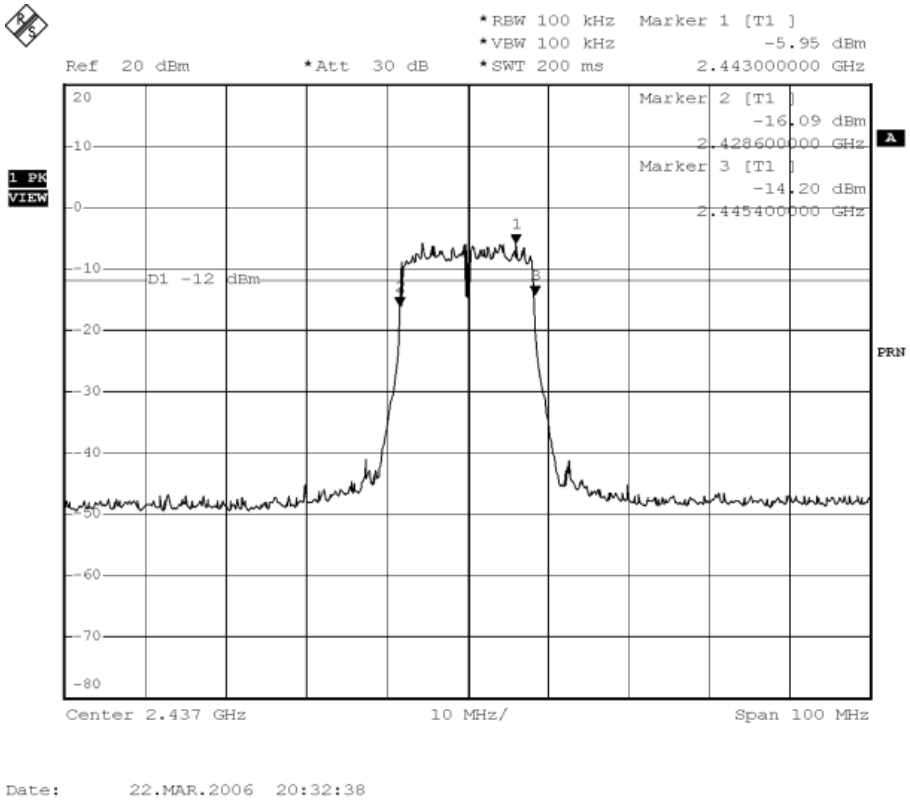
**Figure Channel 1:** 54Mbps



Product : Wireless LAN Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|---|---|---|---|---|
| 6 (54Mbps) | 2437.00 | 16800 | >500 | Pass |

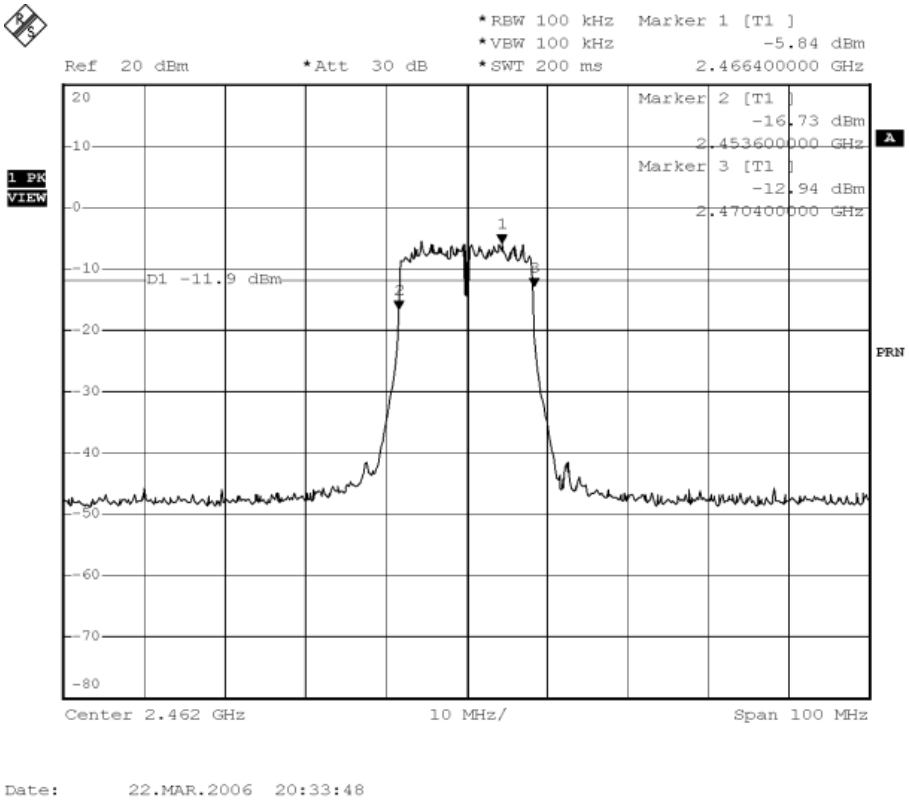
**Figure Channel 6:** 54Mbps



Product : Wireless LAN Card
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|---|---|---|---|---|
| 11 (54Mbps) | 2462.00 | 16800 | >500 | Pass |

**Figure Channel 11:** 54Mbps



# 7. Power Density

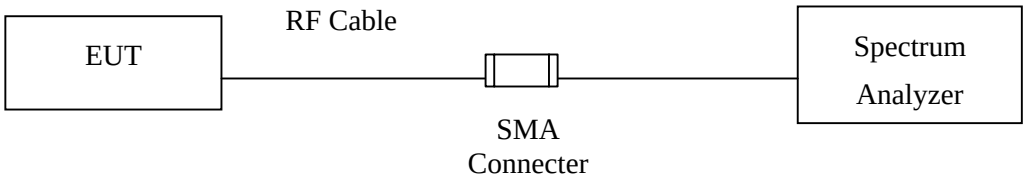
## 7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|---|---|---|---|
| X | Test Receiver | R & S | ESI 26 / 838786 / 004 | May, 2005 |

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

## 7.2. Test Setup




## 7.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

## 7.4. Uncertainty

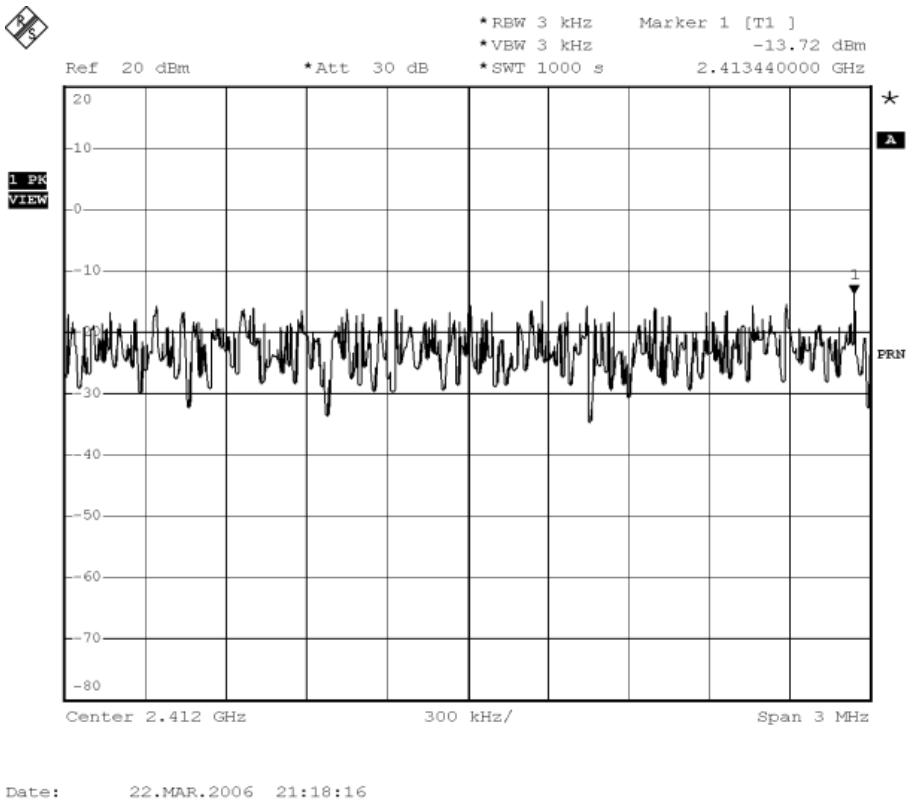
The measurement uncertainty is defined as ± 1.27 dB

## 7.5. Test Result of Power Density

Product : Wireless LAN Card
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412MHz)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|
| 1 (11Mbps) | 2412.00 | -13.72 | < 8dBm | Pass |

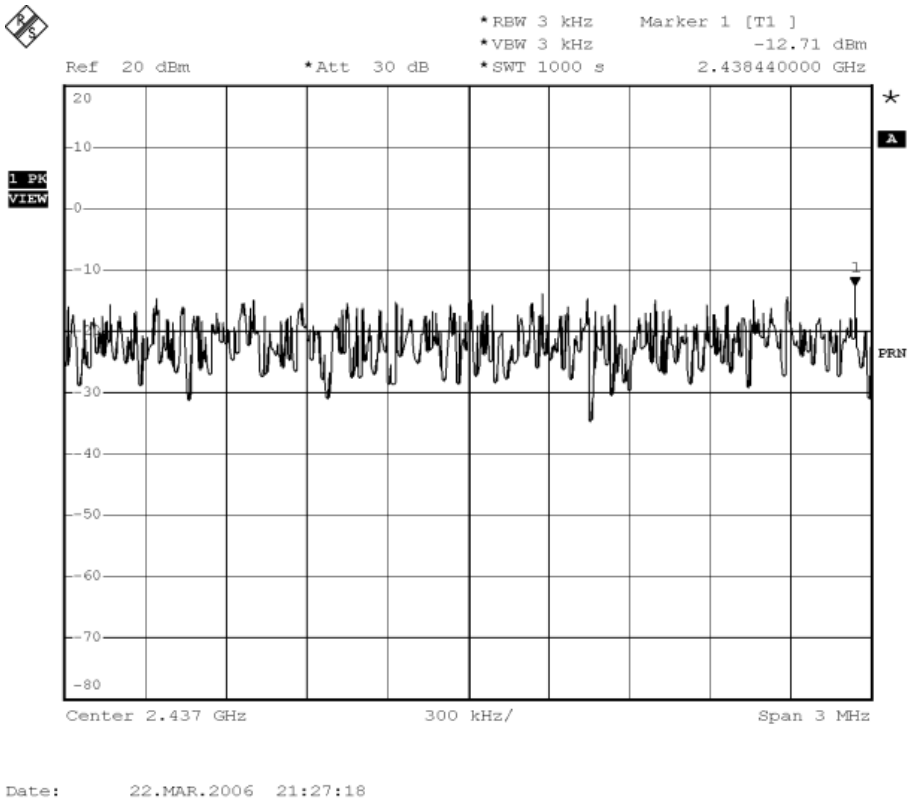
**Figure Channel 1:** 11Mbps



Product : Wireless LAN Card
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|
| 6 (11Mbps) | 2437.000 | -12.71 | < 8dBm | Pass |

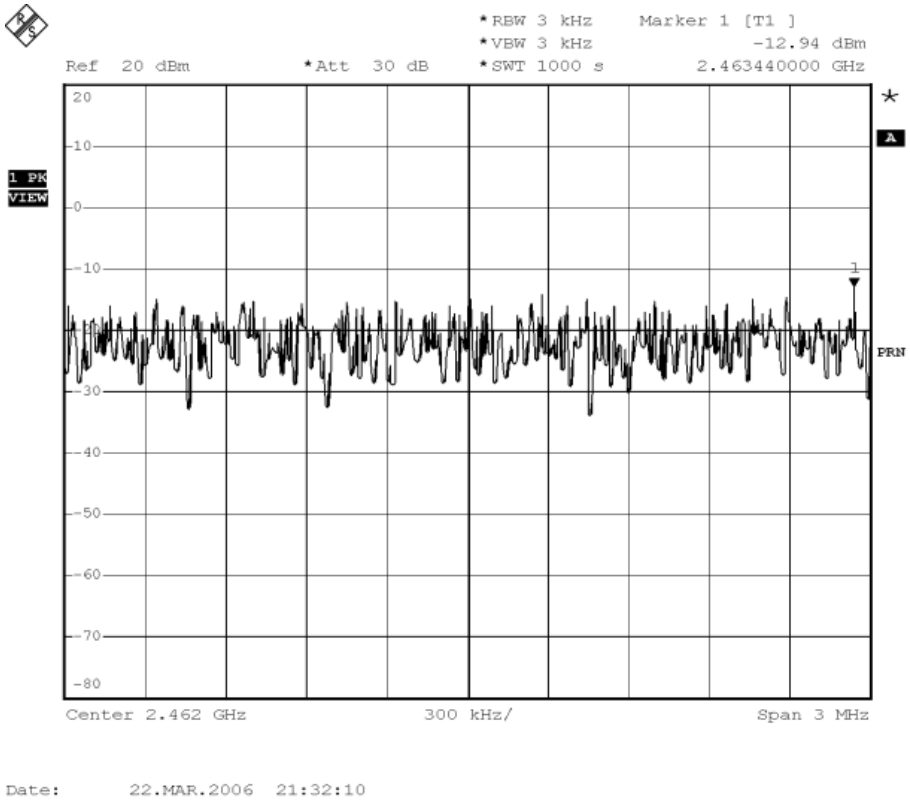
**Figure Channel 6:** 11Mbps



Product : Wireless LAN Card
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|
| 11 (11Mbps) | 2462.00 | -12.94 | < 8dBm | Pass |

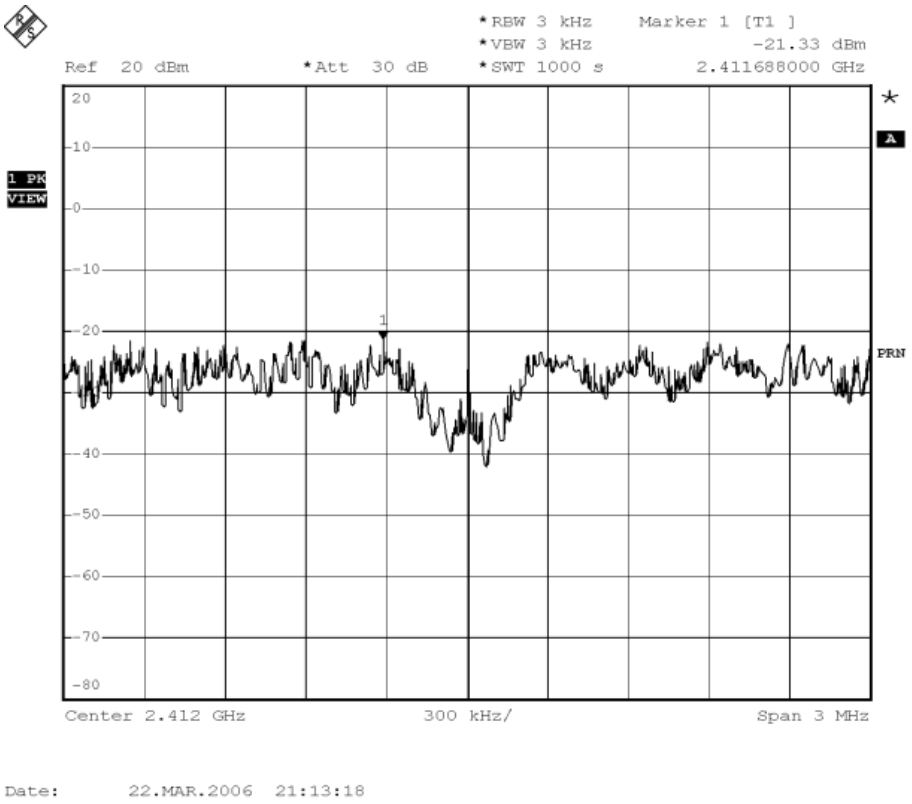
**Figure Channel 11:** 11Mbps



Product : Wireless LAN Card
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412MHz)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|
| 1 (54Mbps) | 2412.00 | -21.33 | < 8dBm | Pass |

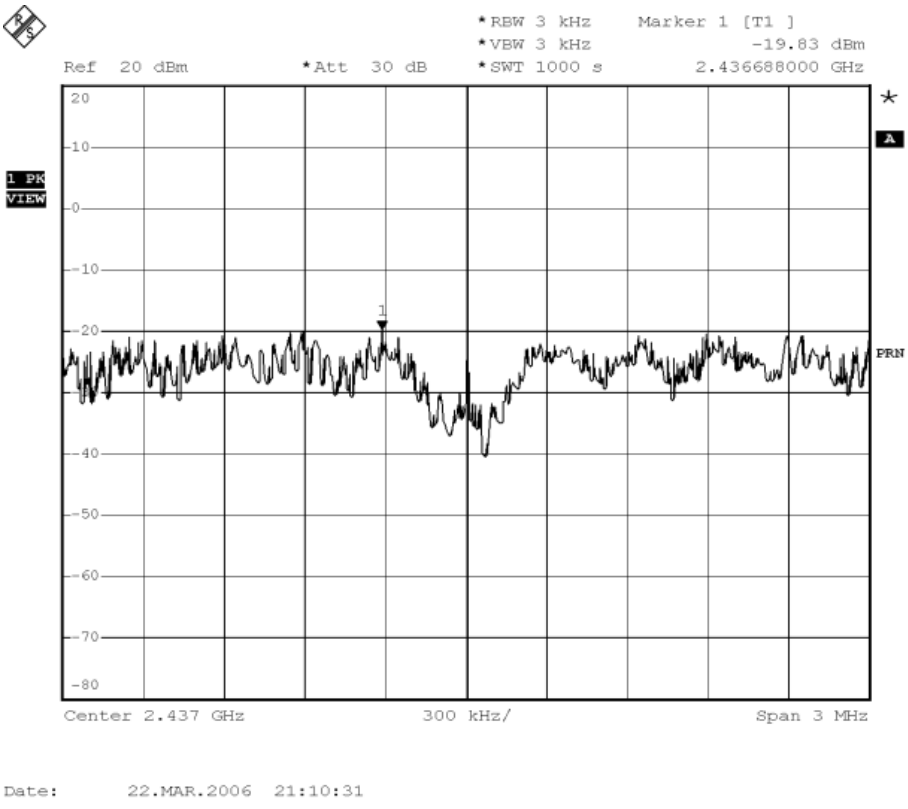
**Figure Channel 1:** 54Mbps



Product : Wireless LAN Card
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|
| 6 (54Mbps) | 2437.000 | -19.83 | < 8dBm | Pass |

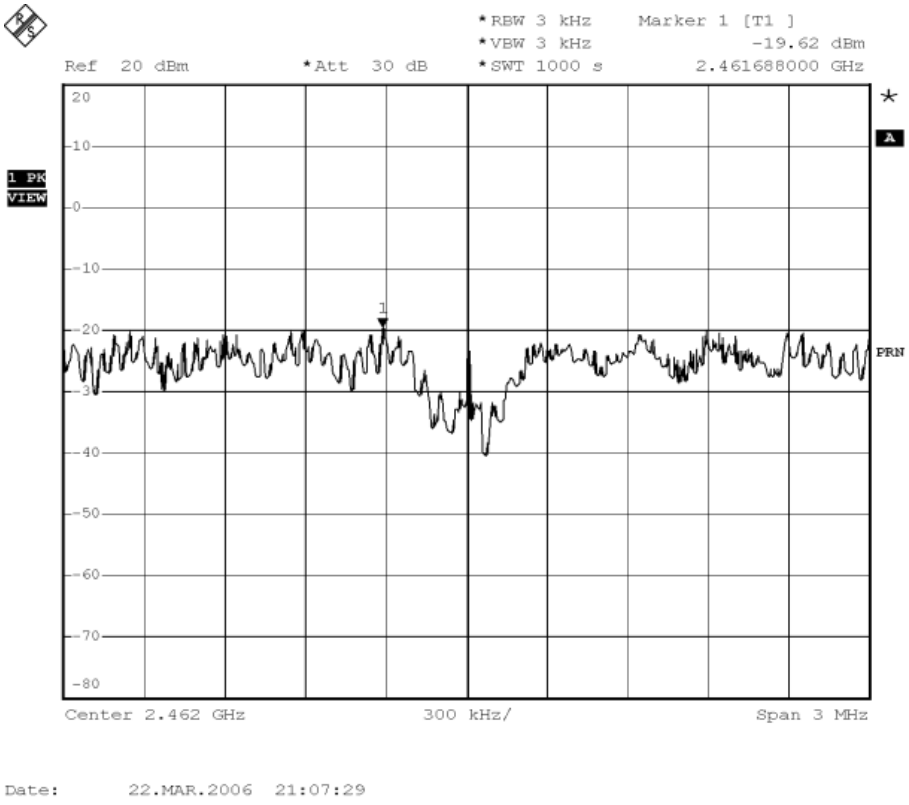
**Figure Channel 6:** 54Mbps



Product : Wireless LAN Card
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|---|---|---|---|---|
| 11 (54Mbps) | 2462.00 | -19.62 | < 8dBm | Pass |

**Figure Channel 11:** 54Mbps



## 8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

# Attachment 1: EUT Test Photographs

## Attachment 1: EUT Test Setup Photographs

Front View of Conducted Test - (Mode 1)

Back View of Conducted Test - (Mode 1)

Front View of Conducted Test - (Mode 2)

Back View of Conducted Test - (Mode 2)

Front View of Radiated Test - (Mode 1)

Back View of Radiated Test - (Mode 1)

Front View of Radiated Test - (Mode 2)

Back View of Radiated Test - (Mode 2)

Front View of Radiated Test (Horn) - (Mode 1)

Back View of Radiated Test (Horn) - (Mode 1)

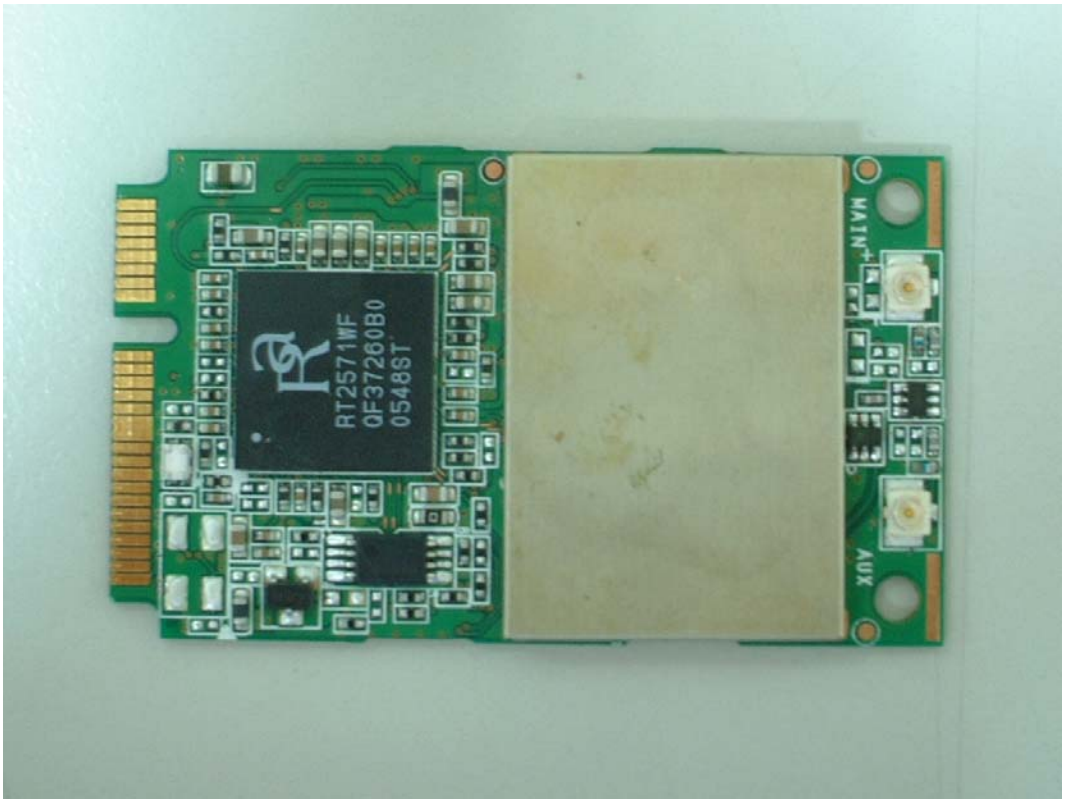
Front View of Radiated Test (Horn) - (Mode 2)

Back View of Radiated Test (Horn) - (Mode 2)

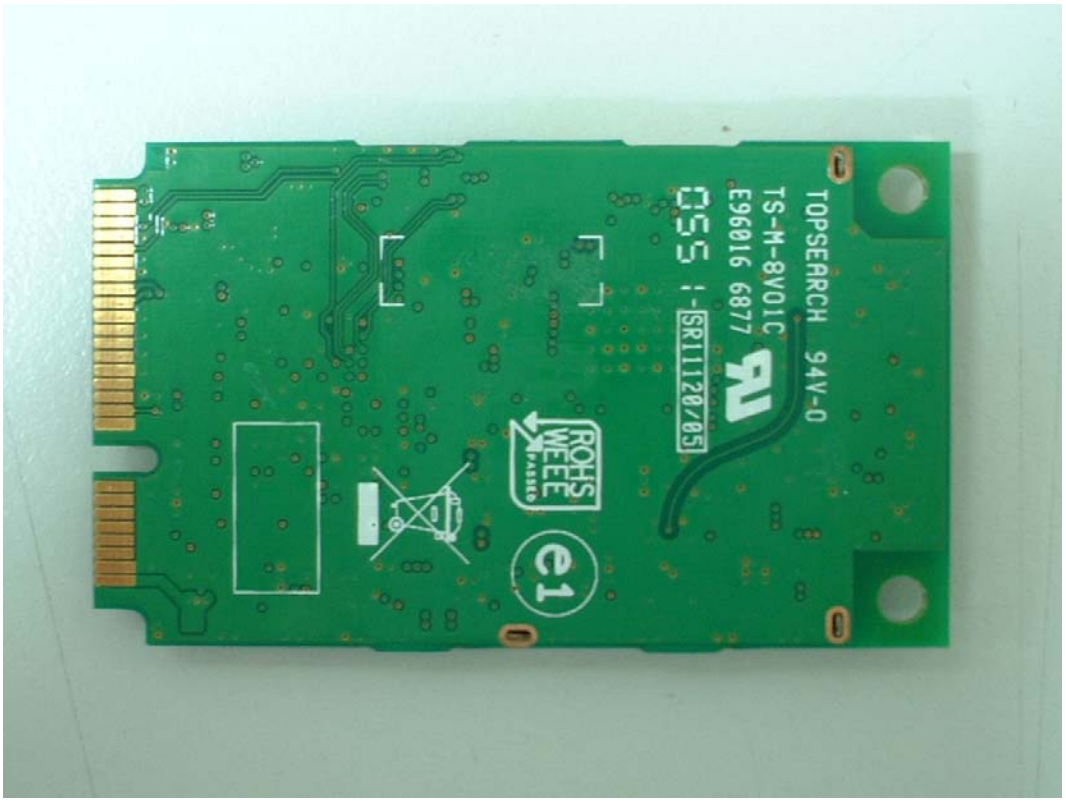
# Attachment 2: EUT Detailed Photographs

## Attachment 2 : EUT Detailed Photographs

(1) EUT Photo

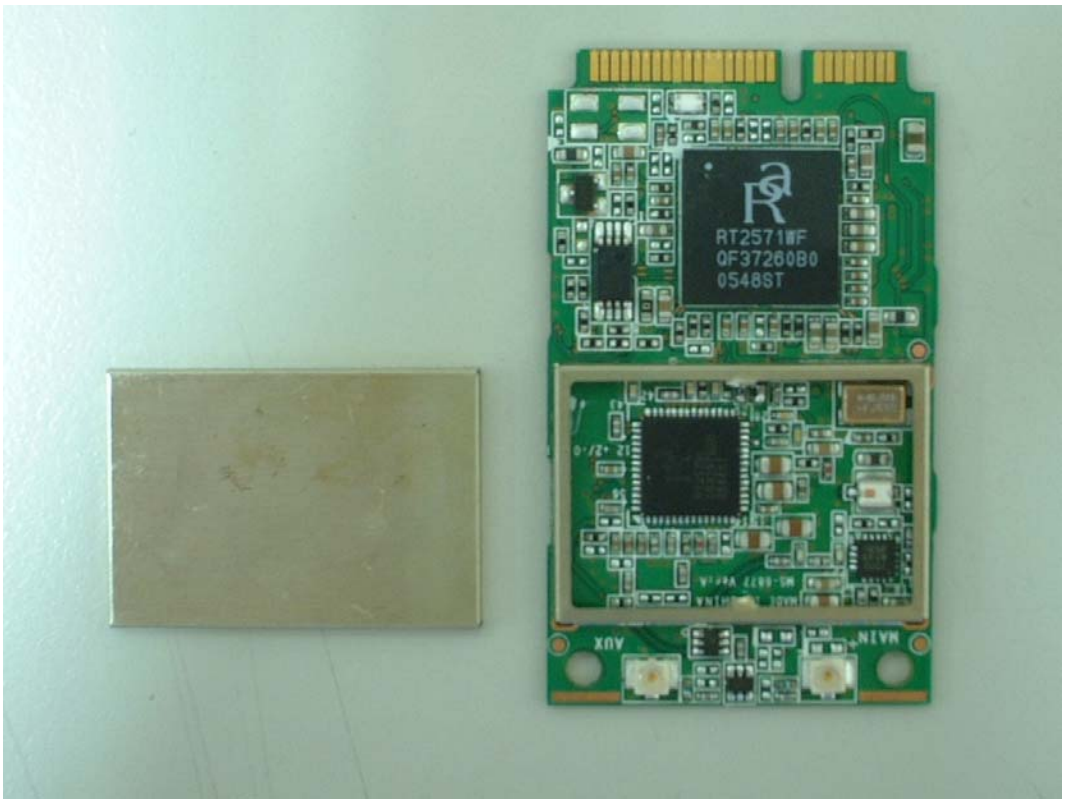



(2) EUT Photo

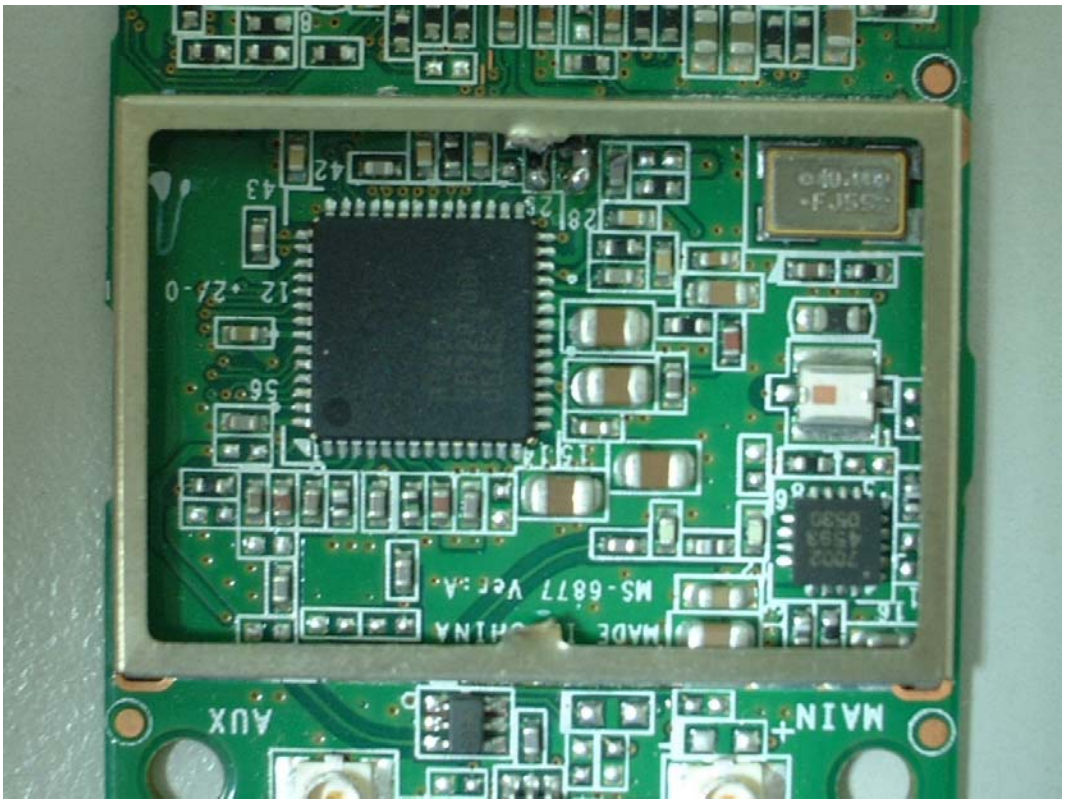


(3) EUT Photo

(4) EUT Photo

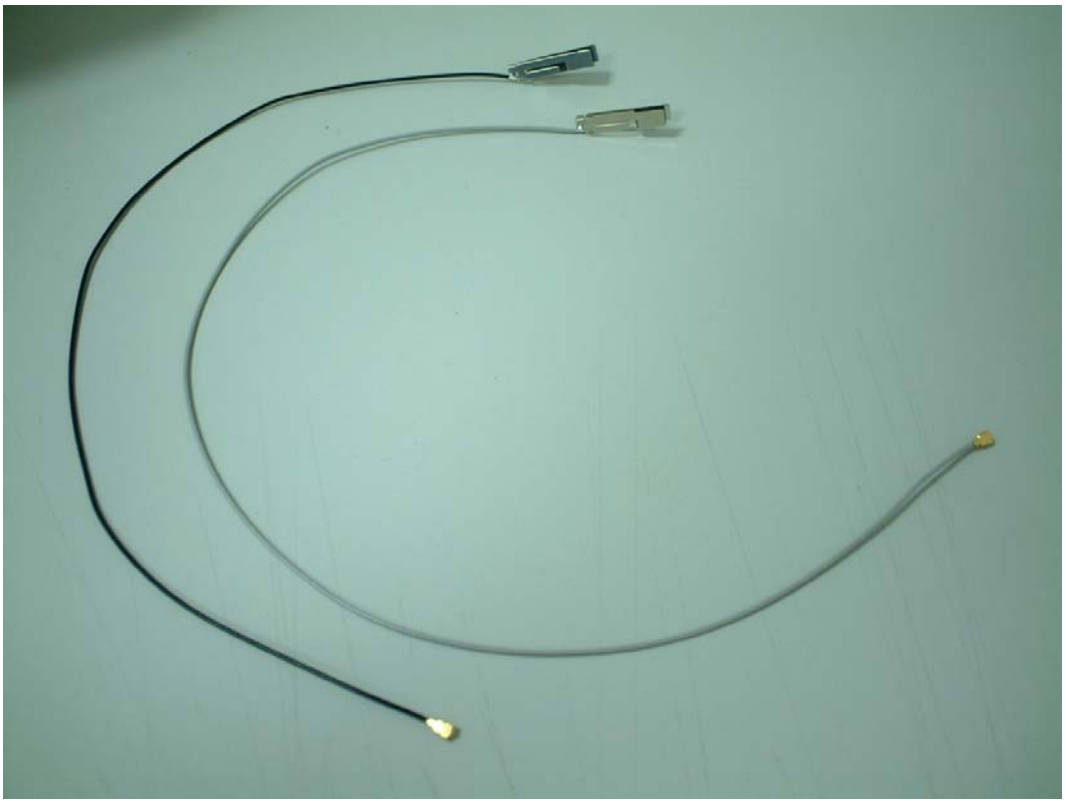


(5) EUT Photo

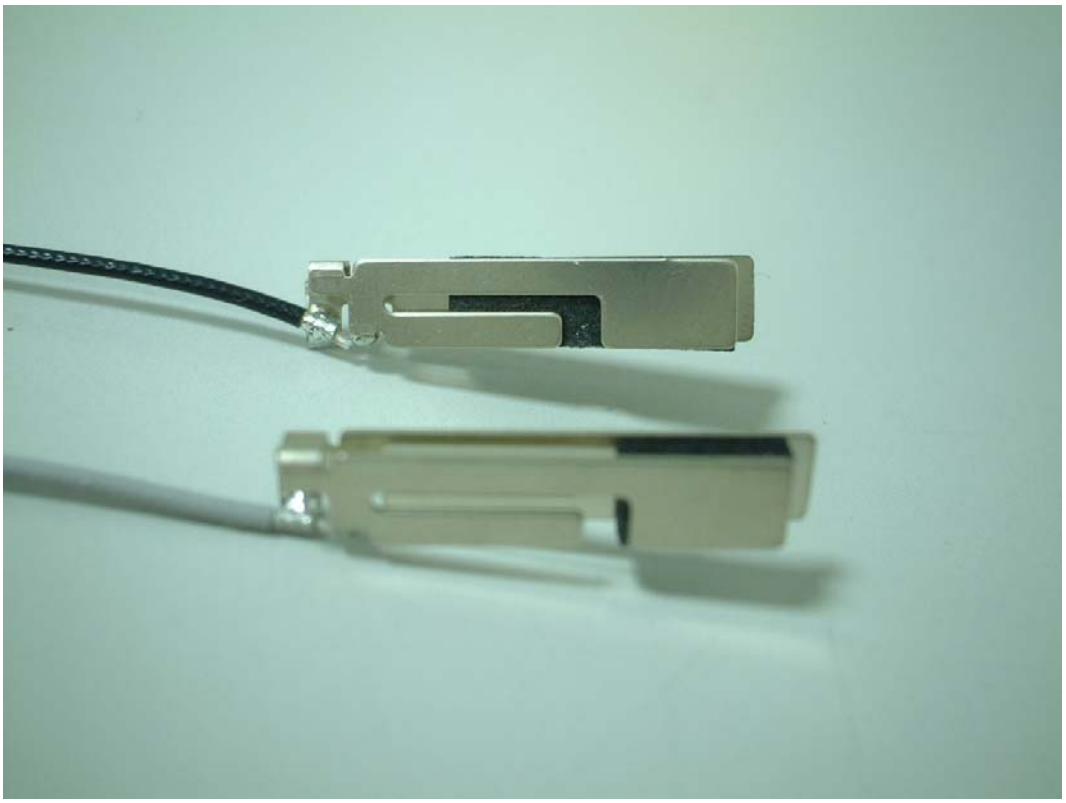



(6) EUT Photo

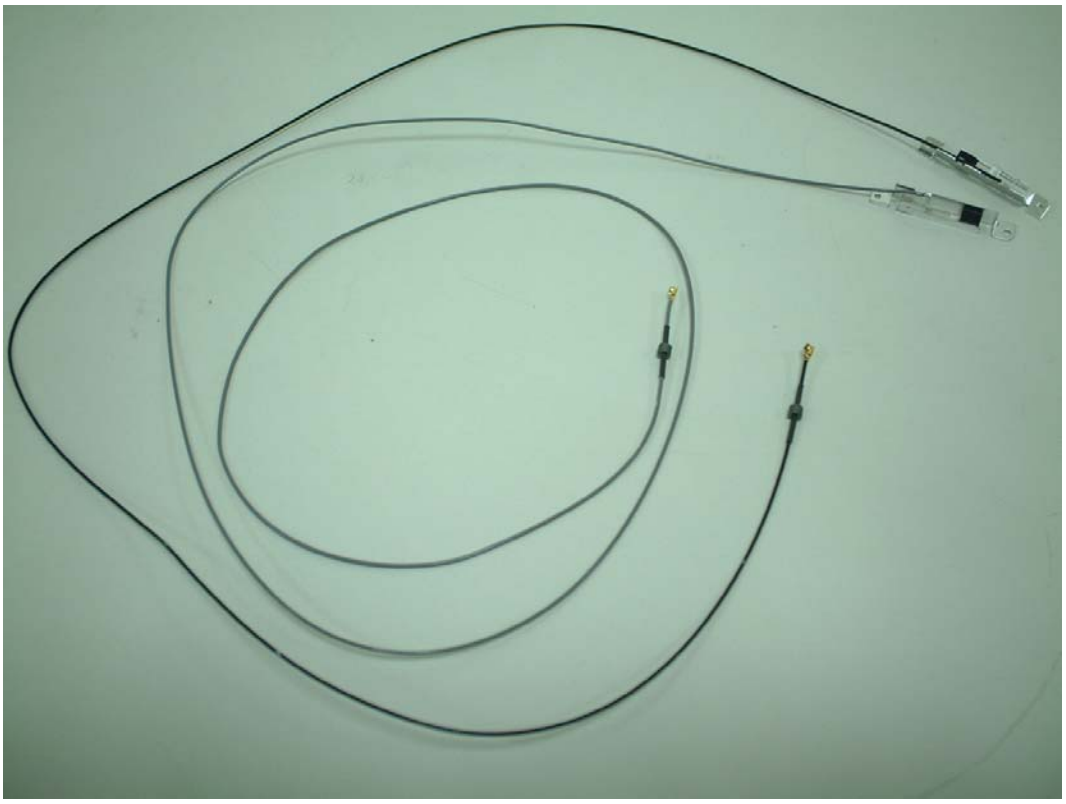
(7) EUT Photo



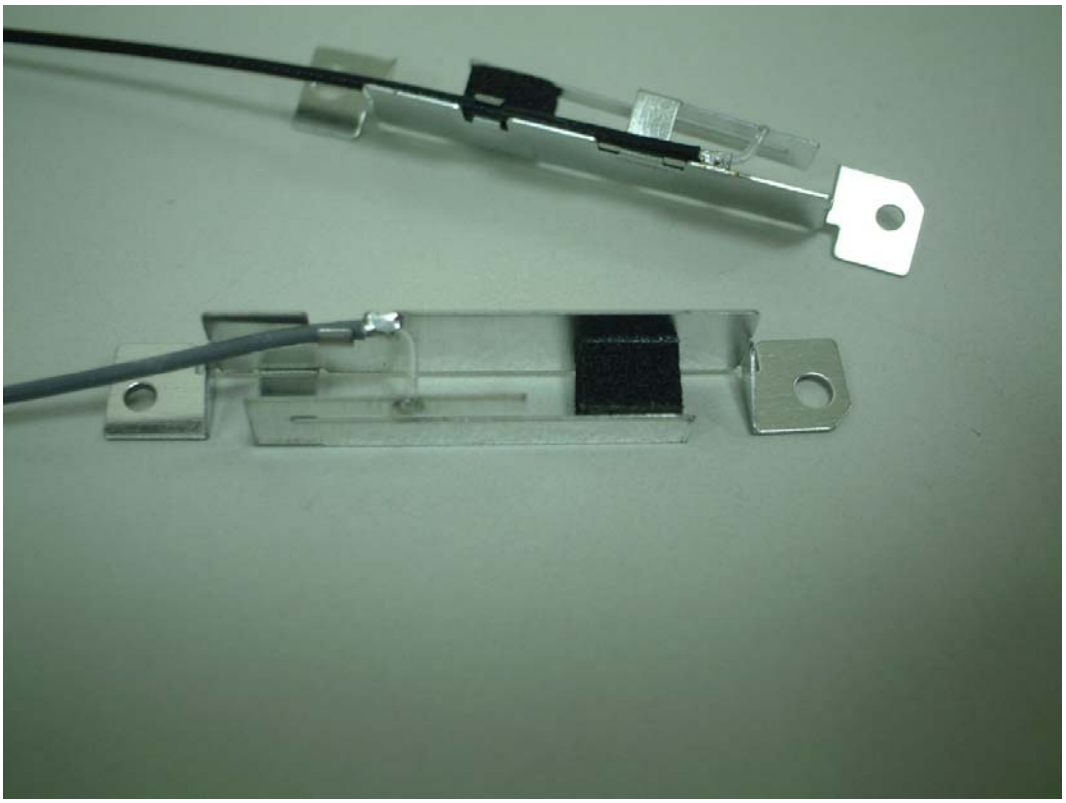
(8) EUT Photo



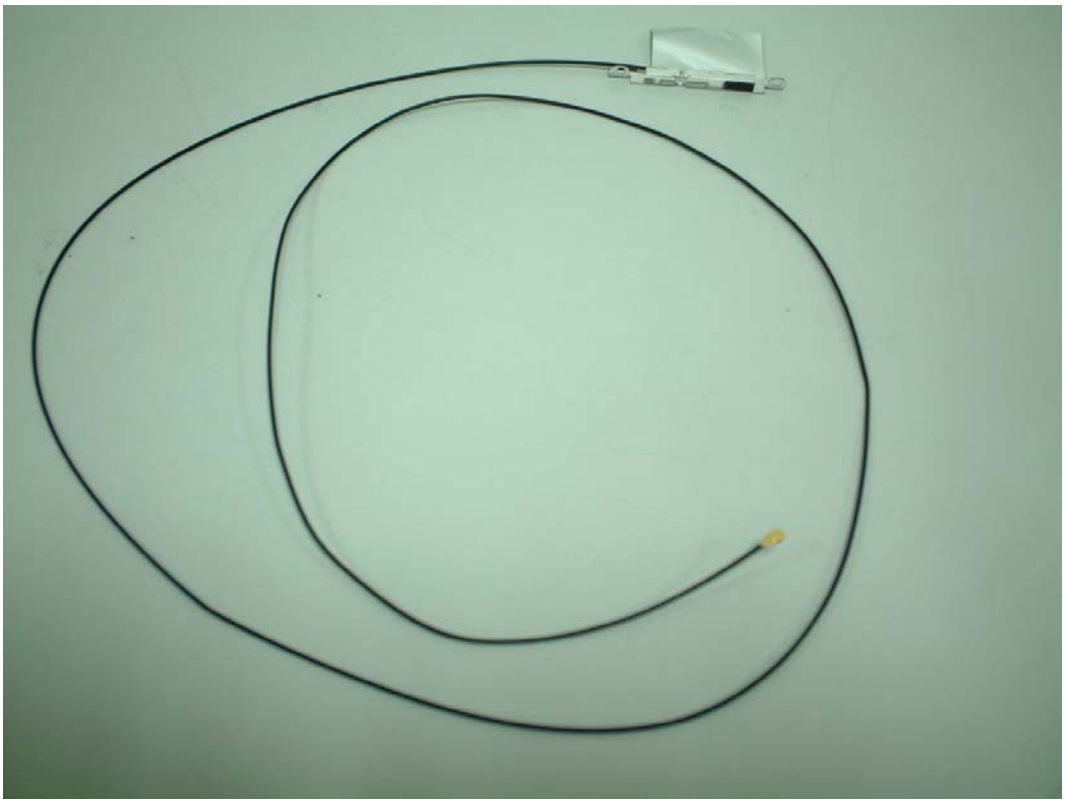
(9) EUT Photo



(10) EUT Photo

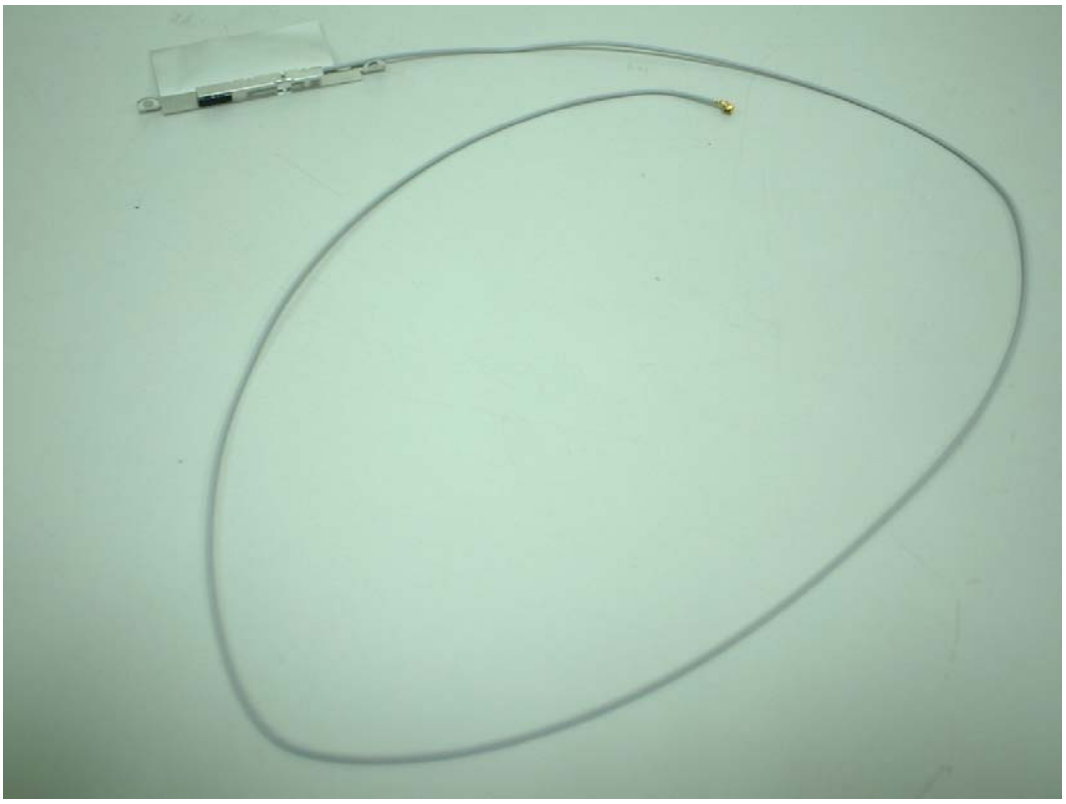


(11) EUT Photo



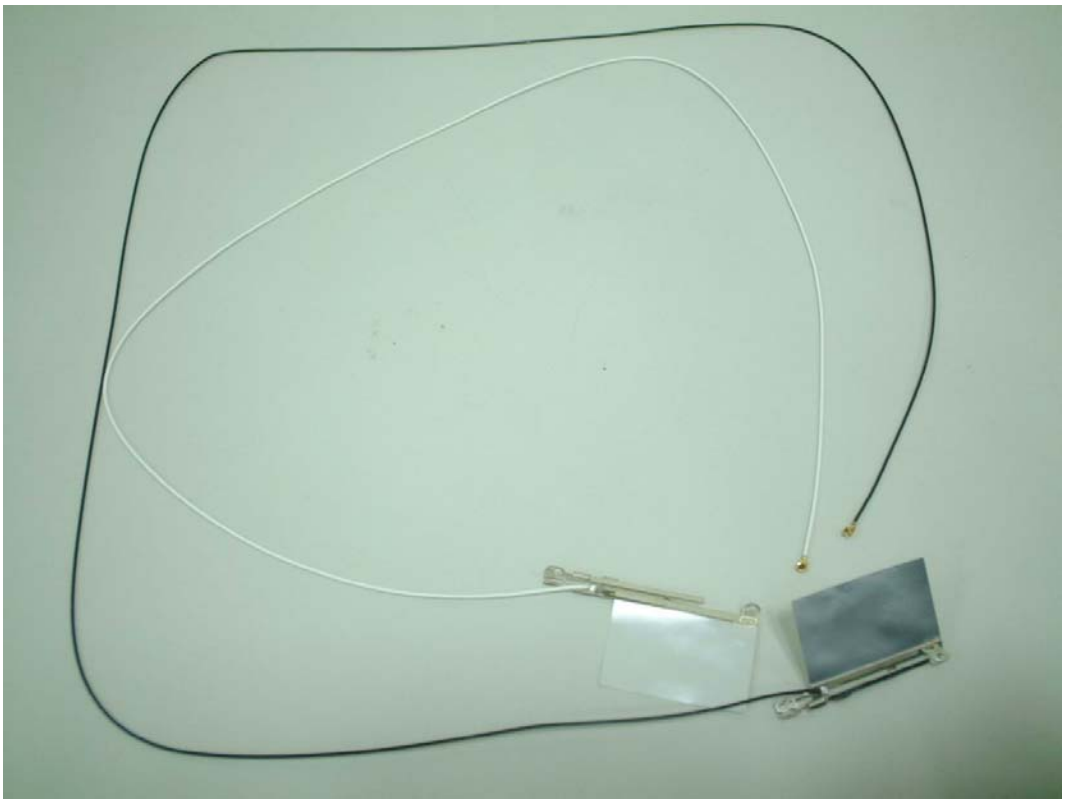
(12) EUT Photo

(13) EUT Photo

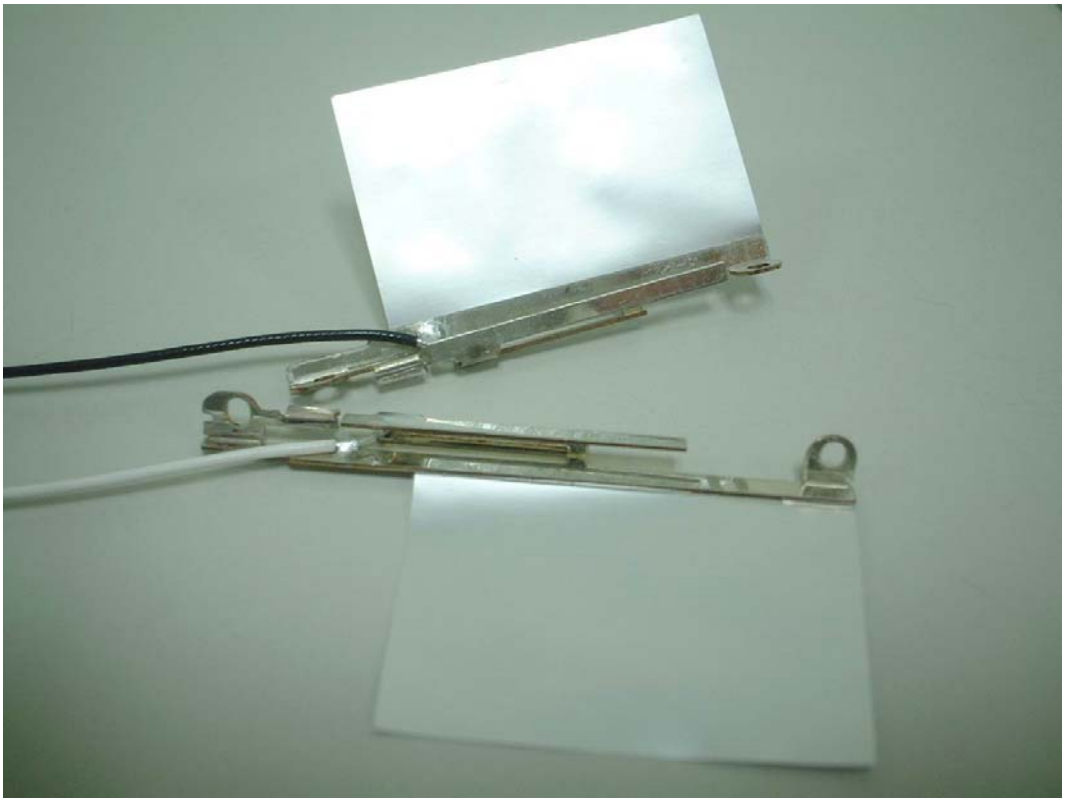


(14) EUT Photo

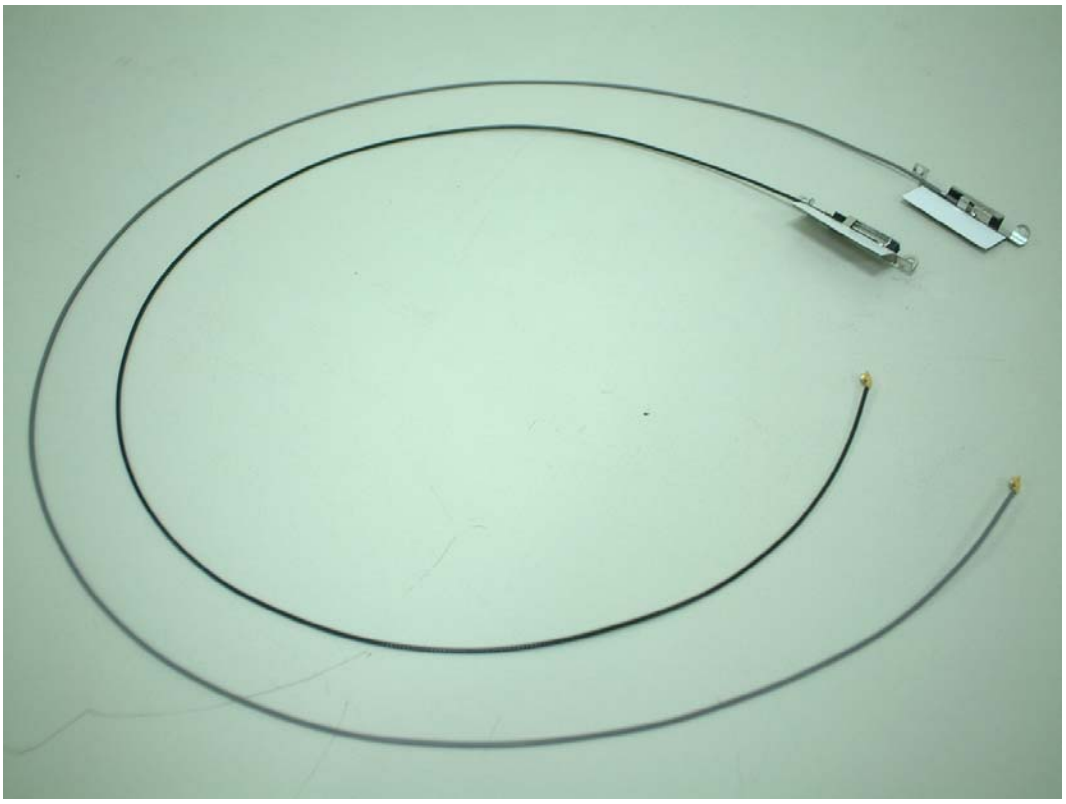
(15) EUT Photo



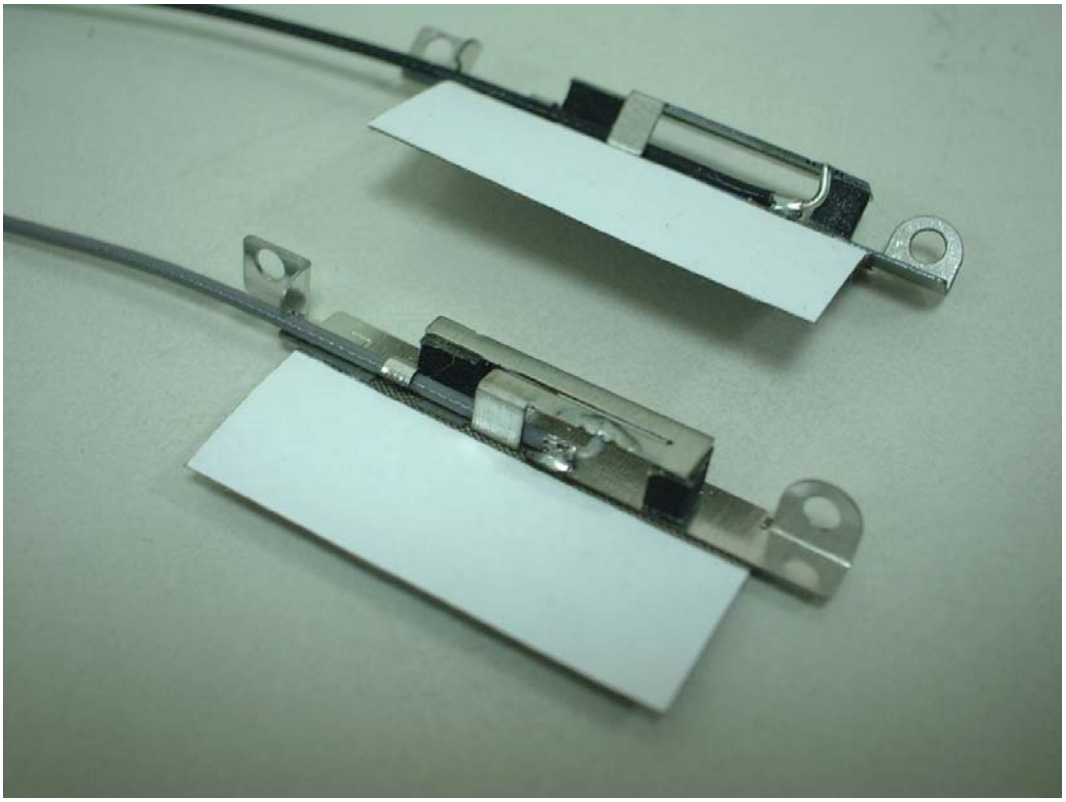
(16) EUT Photo



(17) EUT Photo



(18) EUT Photo



(19) EUT Photo

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