

APPLICATION FOR CERTIFICATION
On Behalf of

Proware Technologies Co Ltd.

Wireless N Cardbus Adapter

Model Number: M-WN910N

FCC ID: WWMWN910NV1

Prepared for : Proware Technologies Co Ltd.
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Date of Test : Jan.10~Mar.03, 2009
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TEST REPORT CERTIFICATION

Applicant : Proware Technologies Co Ltd.
 Manufacturer : Proware Technologies Co Ltd.
 EUT Description : Wireless N Cardbus Adapter
 FCC ID : WWMWN910NV1
 (A) MODEL NO. : M-WN910N
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3.3V From PC
 (D) TEST VOLTAGE : DC 3.3V From PC Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Jan.10~ Mar.03, 2009

Prepared by : Edie Huang
 Edie Huang / Assistant

Reviewer : Jamy Yu
 Jamy Yu / Senior Engineer



Approved & Authorized Signer : Ken Lu
 Ken Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | |
|--|--|---------|
| Description of Test Item | Standard | Results |
| Power Line Conducted Emission Test | FCC Part 15: 15.207 ANSI C63.4: 2003 KDB558074 | PASS |
| Radiated Emission Test | FCC Part 15: 15.209 ANSI C63.4: 2003 KDB558074 | PASS |
| Band Edge Compliance Test | FCC Part 15: 15.247 KDB558074 | PASS |
| Conducted spurious emissions test | FCC Part 15: 15.247 KDB558074 | PASS |
| 6dB Bandwidth Test | FCC Part 15: 15.247 KDB558074 | PASS |
| Output Power Test | FCC Part 15: 15.247 KDB558074 | PASS |
| Power Spectral Density Test | FCC Part 15: 15.247 KDB558074 | PASS |
| MPE ESTIMATION | FCC Part 2: 2.1093 | PASS |
| Antenna requirement | FCC Part 15: 15.203 | PASS |
| N/A is an abbreviation for Not Applicable. | | |

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | |
|-----------------------|---|
| Product Name | : Wireless N Cardbus Adapter |
| Model Number | : M-WN910N |
| FCC ID | : WWMWN910NV1 |
| Operation Frequency | : IEEE 802.11b/g, 802.11n HT20: 2412MHz---2462MHz IEEE802.11n HT40: 2422MHz---2452MHz |
| Channel Number | : IEEE 802.11b/g, 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7Channels |
| Modulation Technology | : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) |
| Data Rate | : IEEE 802.11b: 11/5.5/2/1Mbps. IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps. IEEE 802.11n HT20 : 130, 117 ,104, 78, 65, 58.5, 52, 39, 26,19.5,13, 6.5 Mbps IEEE 802.11n HT40 : 270, 243 ,216, 162, 135, 121.5, 108, 81,54,40.5, 27, 13.5Mbps |
| Output Power | : IEEE 802.11b: 22.74dBm IEEE 802.11g: 28.56dBm IEEE 802.11n HT20: 28.73dBm IEEE 802.11n HT40: 28.43dBm |
| Antenna Assembly Gain | : 0.59dBi (maximum) |
| Applicant | : Proware Technologies Co Ltd. 4/F, Building 7, Section 2, Honghualing Industrial Park, Xili, Nanshan District, Shenzhen, P.R.C. |
| Manufacturer | : Proware Technologies Co Ltd. 4/F, Building 7, Section 2, Honghualing Industrial Park, Xili, Nanshan District, Shenzhen, P.R.C. |
| Date of Test | : Mar.03~04, 2009 |
| Date of Receipt | : Jan.08, 2009 |
| Sample Type | : Prototype production |

2.2. Test information

The test software “WN910N.bat” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

| Tested mode, channel, and data rate information | | | |
|---|-------------------------------|-------------|--------------------|
| Mode | data rate (Mbps)(see Note) | Channel | Frequency (MHz) |
| IEEE 802.11b | 1 | Low :CH1 | 2412 |
| | 1 | Middle: CH7 | 2437 |
| | 1 | High: CH11 | 2462 |
| IEEE 802.11g | 6 | Low :CH1 | 2412 |
| | 6 | Middle: CH7 | 2437 |
| | 6 | High: CH11 | 2462 |
| IEEE 802.11n HT20 | 6.5 | Low :CH1 | 2412 |
| | 6.5 | Middle: CH7 | 2437 |
| | 6.5 | High: CH11 | 2462 |
| IEEE 802.11n HT40 | 13.5 | Low :CH1 | 2422 |
| | 13.5 | Middle: CH4 | 2437 |
| | 13.5 | High: CH7 | 2452 |
| Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test. | | | |

2.3.Date rate VS power

| Mode | Data rate(Mbps) | CH | Level (dBm) | Limit (dBm) |
|-------------|-----------------|-----|-------------|-------------|
| 11b | 1 | CH6 | 22.74 | 30 |
| | 2 | CH6 | 22.45 | 30 |
| | 5.5 | CH6 | 22.56 | 30 |
| | 11 | CH6 | 22.14 | 30 |
| 11g | 6 | CH6 | 28.56 | 30 |
| | 9 | CH6 | 28.32 | 30 |
| | 12 | CH6 | 28.11 | 30 |
| | 18 | CH6 | 28.24 | 30 |
| | 24 | CH6 | 28.32 | 30 |
| | 36 | CH6 | 27.98 | 30 |
| | 48 | CH6 | 27.45 | 30 |
| | 54 | CH6 | 28.03 | 30 |
| 11n HT20 | 6.5 | CH6 | 28.73 | 30 |
| | 13 | CH6 | 28.56 | 30 |
| | 19.5 | CH6 | 28.21 | 30 |
| | 26 | CH6 | 28.31 | 30 |
| | 39 | CH6 | 28.51 | 30 |
| | 52 | CH6 | 28.23 | 30 |
| | 58.5 | CH6 | 28.12 | 30 |
| | 65 | CH6 | 28.43 | 30 |
| | 78 | CH6 | 28.32 | 30 |
| | 104 | CH6 | 28.11 | 30 |
| | 117 | CH6 | 28.23 | 30 |
| | 130 | CH6 | 28.24 | 30 |
| 11n HT40 | 13.5 | CH4 | 28.43 | 30 |
| | 27 | CH4 | 28.11 | 30 |
| | 40.5 | CH4 | 28.09 | 30 |
| | 54 | CH4 | 28.21 | 30 |
| | 81 | CH4 | 28.16 | 30 |
| | 108 | CH4 | 28.17 | 30 |
| | 121.5 | CH4 | 28.21 | 30 |
| | 135 | CH4 | 27.98 | 30 |
| | 162 | CH4 | 27.67 | 30 |
| | 216 | CH4 | 28.01 | 30 |
| | 243 | CH4 | 28.11 | 30 |
| | 270 | CH4 | 28.09 | 30 |

When IEEE 802.11b's data rate was 1Mbps ; IEEE 802.11g's data rate was 6Mbps, IEEE 802.11n HT20's data rate was 6.5 Mbps; IEEE802.11n HT40's data rate was 13.5Mbps the EUT have maximum output power and all the test was performed in this data rate set.

2.4. Tested Supporting System Details

2.4.1. NOTEBOOK

| | | |
|---------------|---|--|
| M/N | : | PP09S |
| S/N | : | N/A |
| Manufacturer | : | DELL |
| Power Adaptor | : | Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m (Bond one ferrite core) |

2.5. Test Facility

Site Description

- Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China
- 3m Anechoic Chamber : Jun. 13, 2006 File on Federal
Communication Commission
Registration Number: 90454
- 3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal
Communication Commission
Registration Number: 794232
- EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2009
- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2008

2.6. Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | MU | Remark |
|-----|---|--------------------|---------------------------|
| 1. | Uncertainty for Conducted Emission Test | 2.02dB | |
| 2 | Uncertainty for Radiation Emission test in 3m chamber | 3.44 dB | Polarize: V |
| | | 3.96 dB | Polarize: H |
| 3 | Uncertainty for Radiation Emission test in 10m chamber | 3.86dB | Distance: 10m Polarize: V |
| | | 4.18dB | Distance: 10m Polarize: H |
| | | 4.02dB | Distance: 3m Polarize: V |
| | | 4.36dB | Distance: 3m Polarize: H |
| 4. | Uncertainty for Frequency measure | 1×10^{-9} | |
| 5. | Uncertainty for conducted power measure | 0.34dB | |

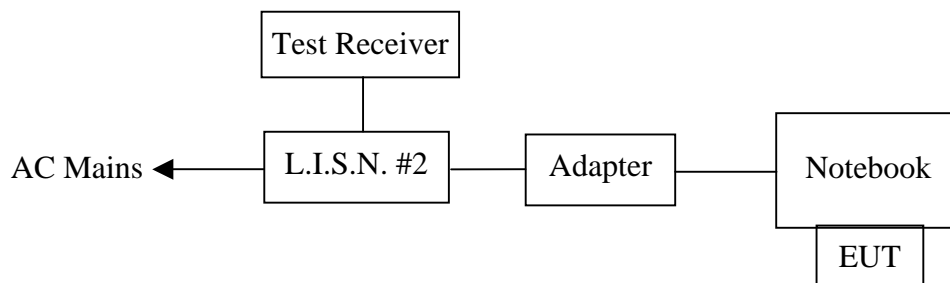
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|---------------|------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESCI | 100842 | Oct.24, 08 | 1 Year |
| 2. | L.I.S.N.#2 | Kyoritsu | KNW-407 | 8-1636-1 | May 10,08 | 1 Year |
| 4. | Terminator | Hubersuhner | 50Ω | No. 1 | May 10,08 | 1 Year |
| 5. | RF Cable | Fujikura | 3D-2W | LISN Cable 1# | Nov.10, 08 | 1/2 Year |
| 6. | Coaxial Switch | Anritsu | MP59B | M55367 | Nov.01, 08 | 1/2 Year |
| 7. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100341 | Nov.10, 08 | 1/2 Year |

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless N Cardbus Adapter)

3.3. Power Line Conducted Emission Test Limits

| Frequency | Maximum RF Line Voltage | |
|-----------------|----------------------------|-------------------------|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Wireless N Cardbus Adapter (EUT)

Model Number : M-WN910N

Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.3.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control the EUT worked in test mode (Tx Mode) and measured it.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.,

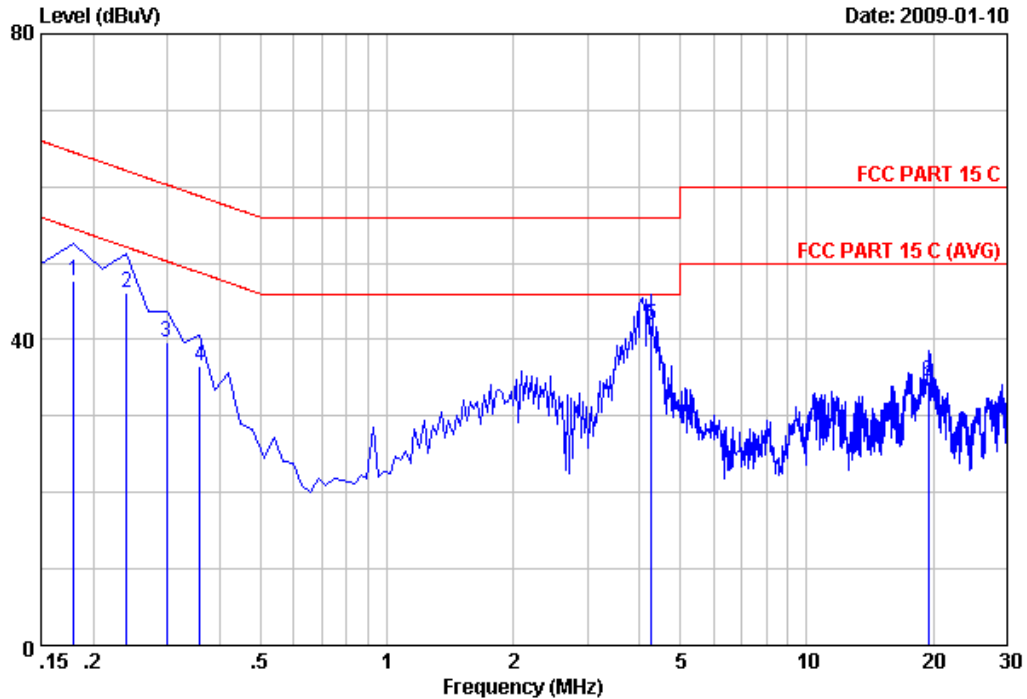
3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)



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Data: 1 File: D:\DATA\2008 Report\PI\Proware\ACS8Q2013.EM6 (2)



Site no :Audix No.1 Conduction Data no :1
 Dis./Ant. **: KNW407 1# VA
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny
 EUT :Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating :DC 3.3V From PC input AC 120V/60Hz
 Test Mode :Tx Mode
 :

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.17985 | 0.29 | 9.82 | 37.58 | 47.69 | 64.49 | 16.80 | QP |
| 2 | 0.23955 | 0.28 | 9.90 | 35.99 | 46.17 | 62.11 | 15.94 | QP |
| 3 | 0.29925 | 0.26 | 9.89 | 29.62 | 39.77 | 60.26 | 20.49 | QP |
| 4 | 0.35895 | 0.24 | 9.88 | 26.43 | 36.55 | 58.75 | 22.20 | QP |
| 5 | 4.269 | 0.10 | 9.92 | 31.79 | 41.81 | 56.00 | 14.19 | QP |
| 6 | 19.493 | 0.41 | 10.08 | 23.96 | 34.45 | 60.00 | 25.55 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

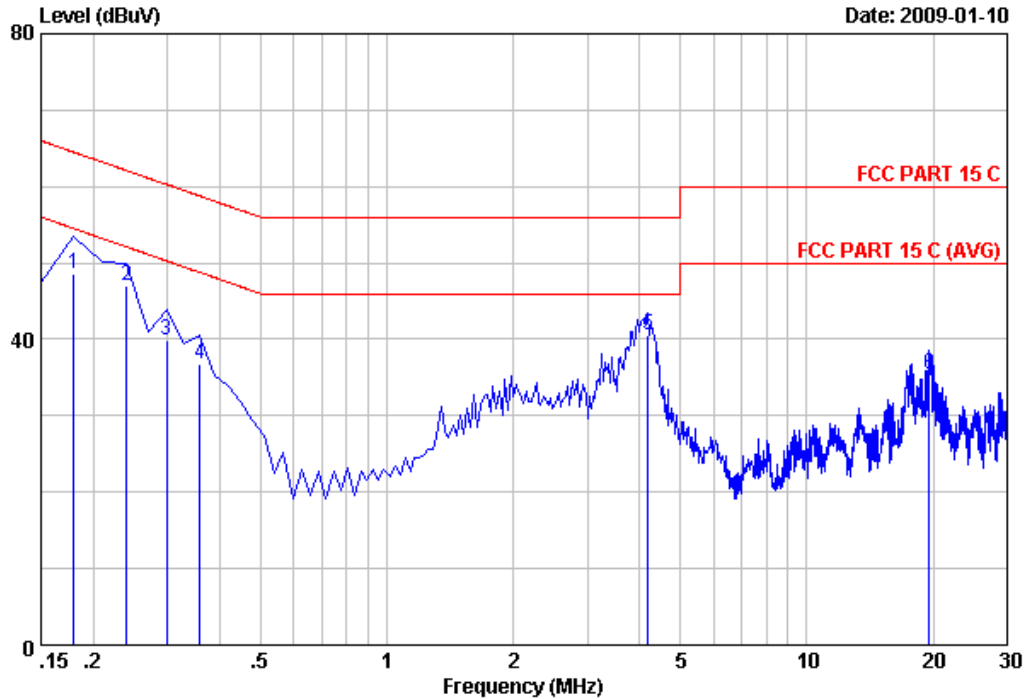


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Data: 2

File: D:\DATA\2008 Report\PI\Proware\ACS8Q2013.EM6 (2)

Date: 2009-01-10



Site no :Audix No.1 Conduction Data no :2
 Dis./Ant. **: KNW407 1# VA
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23°C Humi:54% Engineer :Sunny
 EUT :Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating :DC 3.3V From PC input AC 120V/60Hz
 Test Mode :Tx Mode
 :

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.17985 | 0.29 | 9.82 | 38.53 | 48.64 | 64.49 | 15.85 | QP |
| 2 | 0.23955 | 0.28 | 9.90 | 36.88 | 47.06 | 62.11 | 15.05 | QP |
| 3 | 0.29925 | 0.26 | 9.89 | 29.80 | 39.95 | 60.26 | 20.31 | QP |
| 4 | 0.35895 | 0.24 | 9.88 | 26.57 | 36.69 | 58.75 | 22.06 | QP |
| 5 | 4.180 | 0.10 | 9.92 | 30.44 | 40.46 | 56.00 | 15.54 | QP |
| 6 | 19.553 | 0.41 | 10.08 | 24.99 | 35.48 | 60.00 | 24.52 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

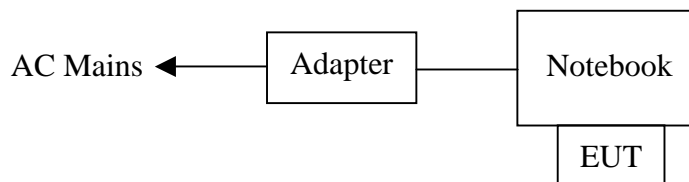
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| 1. | 3#Chamber | AUDIX | N/A | N/A | Dec.05,08 | 1/2 Year |
| 2. | EMI Spectrum | Agilent | E4407B | MY41440292 | May 10, 08 | 1 Year |
| 3. | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | May 10, 08 | 1 Year |
| 4. | Amplifier | HP | 8447D | 2648A04738 | Nov.04, 08 | 1/2 Year |
| 5. | Bilog Antenna | Schaffner | CBL6111C | 2598 | Nov.10, 08 | 1 Year |
| 6. | RF Cable | JINGCHENG | JB Y400 | 3# Chamber No.1 | Nov.01, 08 | 1/2 Year |
| 7. | RF Cable | JINGCHENG | JB Y400 | 3# Chamber No.2 | Nov.01, 08 | 1/2 Year |
| 8. | RF Cable | JINGCHENG | JB Y400 | 3# Chamber No.3 | Nov.01, 08 | 1/2 Year |
| 9. | RF Cable | JINGCHENG | JB Y400 | 3# Chamber No.4 | Nov.01, 08 | 1/2 Year |
| 10. | Coaxial Switch | Anritsu | MP59B | M73989 | Nov.01, 08 | 1/2 Year |

Frequency rang: above 1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-----------|--------------|-----------------|------------|------------|---------------|
| 1. | Spectrum | Agilent | E4446A | US44300459 | May 10, 08 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A08495 | Oct.24, 08 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | May 27, 08 | 1.5 Year |
| 4. | Antenna | EMCO | 3116 | 6088 | May.27,08 | 1.5 Year |
| 5. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28620/2 | May,28, 08 | 1 Year |
| 6. | RF Cable | Hubersuhner | SUCOFLEX 102 | 271471/4 | May,28, 08 | 1 Year |
| 7. | RF Cable | Hubersuhner | SUCOFLEX 102 | 29086/2 | May,28, 08 | 1 Year |

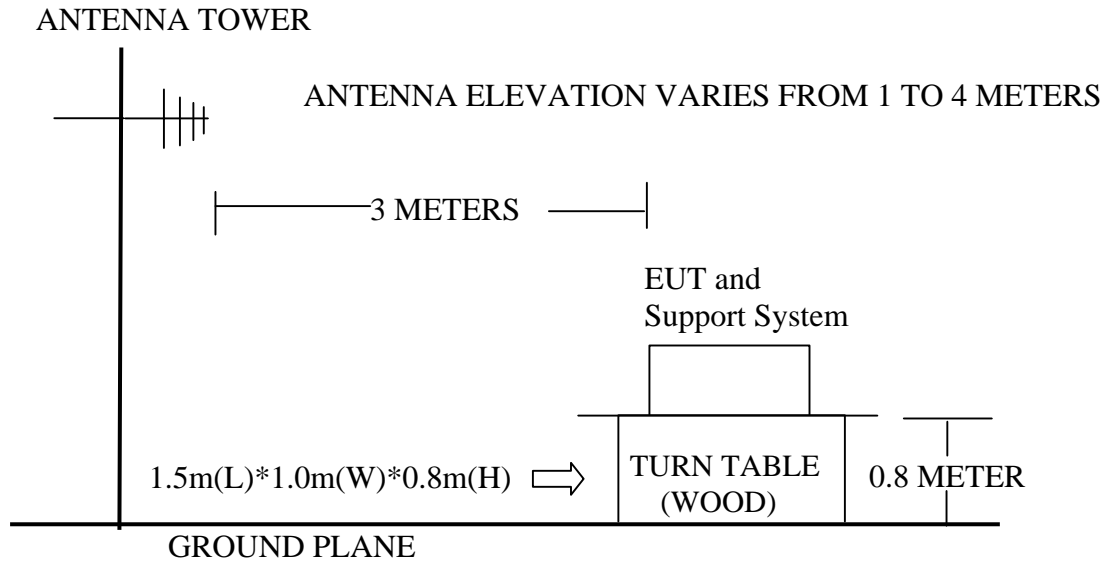
4.2. Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless N Cardbus Adapter)

4.2.2. In Anechoic Chamber



4.3. Radiated Emission Limit

4.3.1. 15.209 limits

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|----------|
| | | μV/m | dB(μV)/m |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | |

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Wireless N Cardbus Adapter (EUT)

Model Number : M-WN910N
Serial Number : N/A

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.3.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Notebook run test software to control the EUT worked in test mode (Tx Mode) and measured it.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7.Radiated Emission Test Results

PASS.

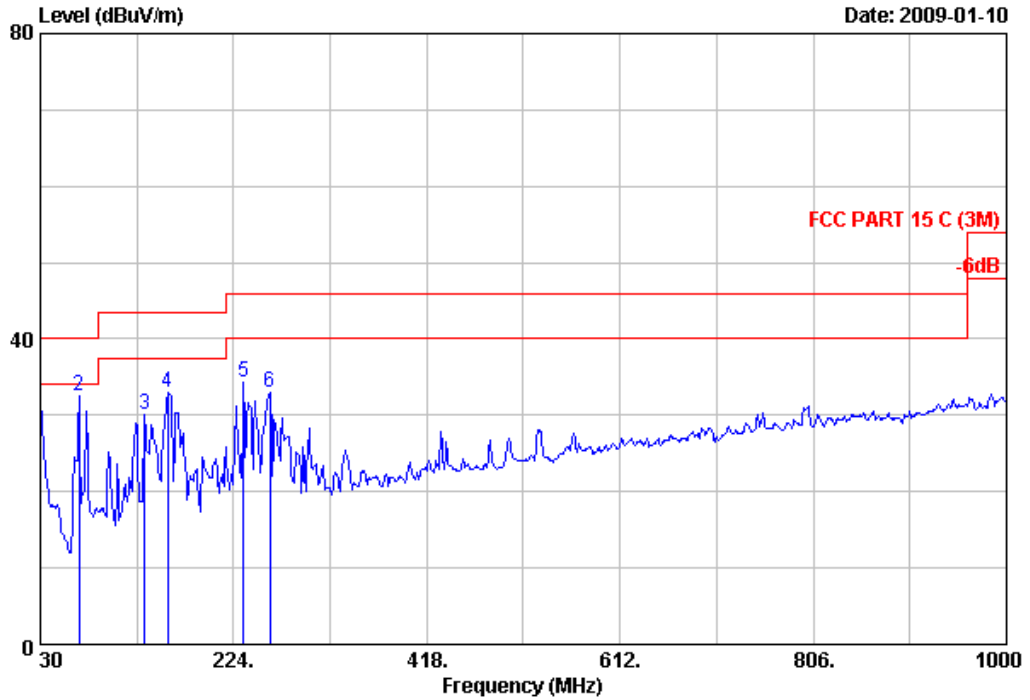
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Frequency: 30MHz~1GHz



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Data: 2 File: D:\2008 Report Data\PI\Proware\ACS8Q2013.EM6 (4)



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/47% Engineer : Sunny
 EUT : Wireless N Cardbus Adapter M/N: M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test Mode : Tx Mode

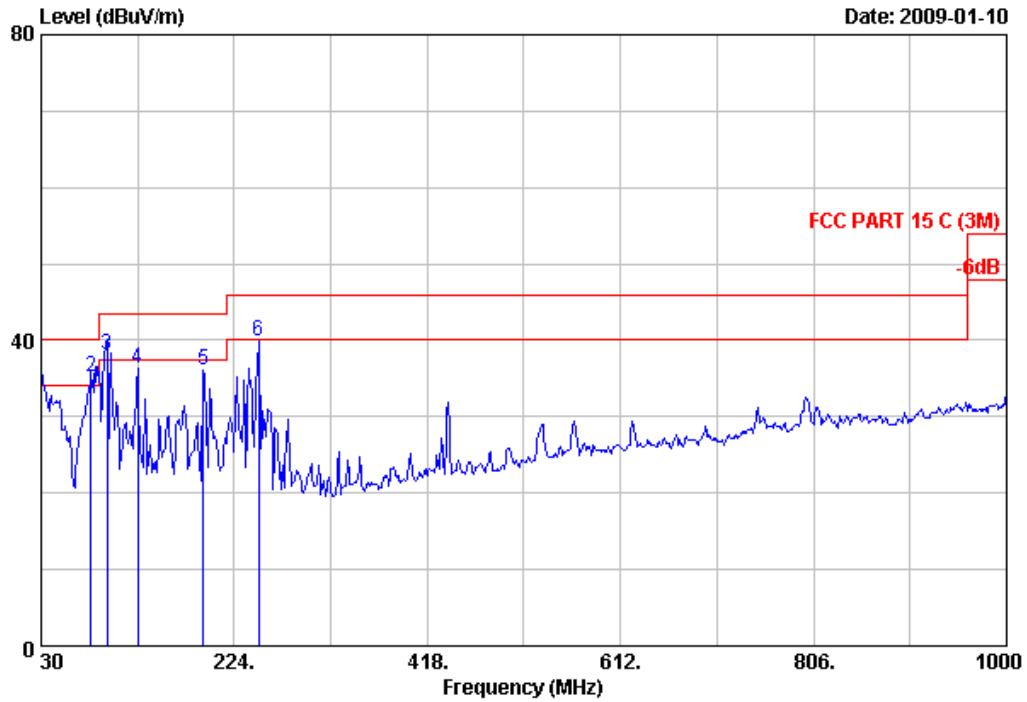
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 30.000 | 19.86 | 0.47 | 11.22 | 31.55 | 40.00 | 8.45 | QP |
| 2 | 68.800 | 6.45 | 0.74 | 25.45 | 32.64 | 40.00 | 7.36 | QP |
| 3 | 134.760 | 12.05 | 1.10 | 17.04 | 30.19 | 43.50 | 13.31 | QP |
| 4 | 158.040 | 11.07 | 1.21 | 20.76 | 33.04 | 43.50 | 10.46 | QP |
| 5 | 233.700 | 11.14 | 1.54 | 21.73 | 34.41 | 46.00 | 11.59 | QP |
| 6 | 260.860 | 13.74 | 1.66 | 17.57 | 32.97 | 46.00 | 13.03 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 1 File: D:\2008 Report Data\PI\Proware\ACS8Q2013.EM6 (4)



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/47% Engineer : Sunny
 EUT : Wireless N Cardbus Adapter M/N: M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test Mode : Tx Mode

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 30.000 | 19.86 | 0.47 | 14.69 | 35.02 | 40.00 | 4.98 | QP |
| 2 | 80.440 | 7.74 | 0.81 | 26.65 | 35.20 | 40.00 | 4.80 | QP |
| 3 | 95.960 | 9.74 | 0.91 | 27.46 | 38.11 | 43.50 | 5.39 | QP |
| 4 | 127.000 | 12.02 | 1.06 | 23.24 | 36.32 | 43.50 | 7.18 | QP |
| 5 | 192.960 | 9.63 | 1.36 | 25.04 | 36.03 | 43.50 | 7.47 | QP |
| 6 | 248.250 | 12.44 | 1.60 | 25.83 | 39.87 | 46.00 | 6.13 | QP |

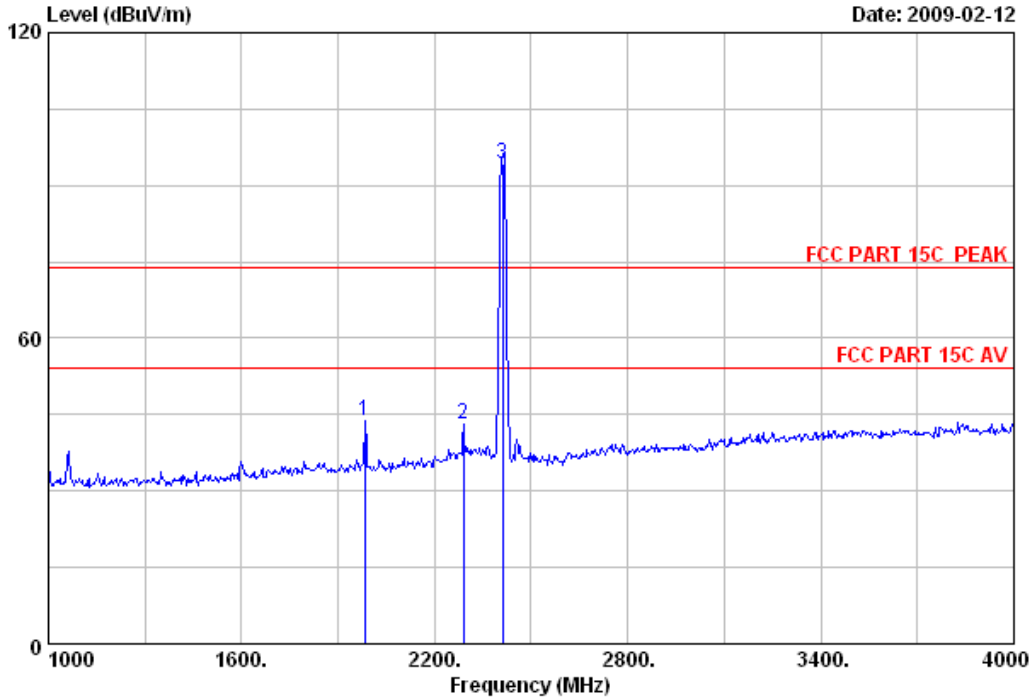
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



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Data: 1 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 44.95 | 43.74 | 74.00 | 30.26 | Peak |
| 2 | 2290.000 | 28.31 | 6.61 | 35.14 | 43.24 | 43.02 | 74.00 | 30.98 | Peak |
| 3 | 2412.000 | 28.48 | 6.73 | 35.12 | 94.27 | 94.36 | 74.00 | -20.36 | Peak |

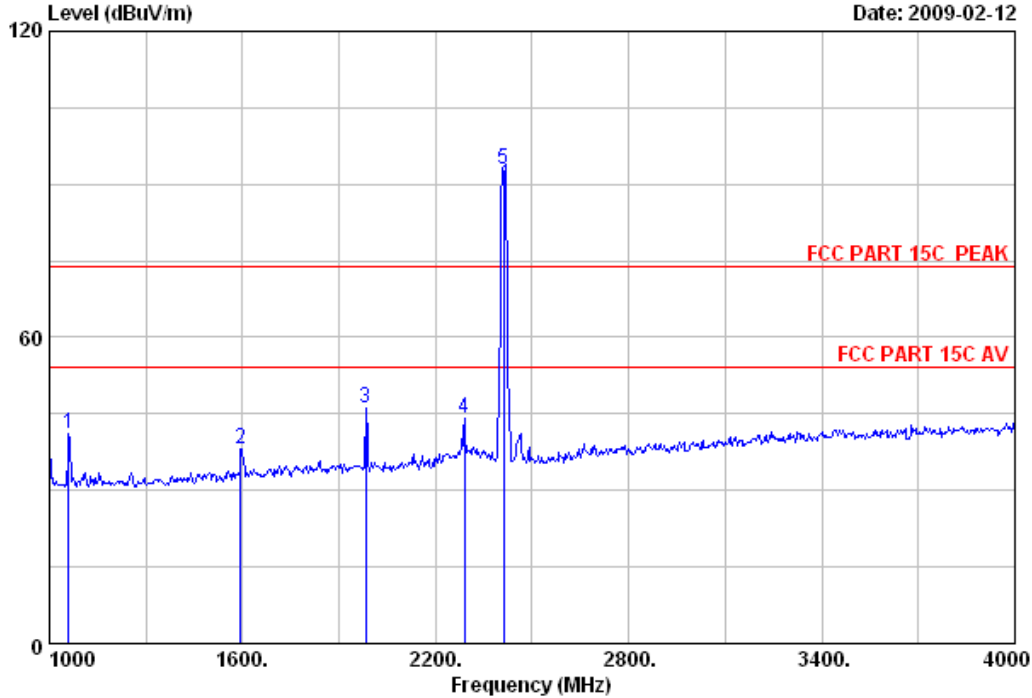
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 2 File: E:\2009 report data\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 47.50 | 41.04 | 74.00 | 32.96 | Peak |
| 2 | 1594.000 | 26.30 | 5.43 | 35.65 | 42.04 | 38.12 | 74.00 | 35.88 | Peak |
| 3 | 1984.000 | 27.83 | 6.16 | 35.20 | 47.40 | 46.19 | 74.00 | 27.81 | Peak |
| 4 | 2290.000 | 28.31 | 6.61 | 35.14 | 44.34 | 44.12 | 74.00 | 29.88 | Peak |
| 5 | 2412.000 | 28.48 | 6.73 | 35.12 | 92.96 | 93.05 | 74.00 | -19.05 | Peak |

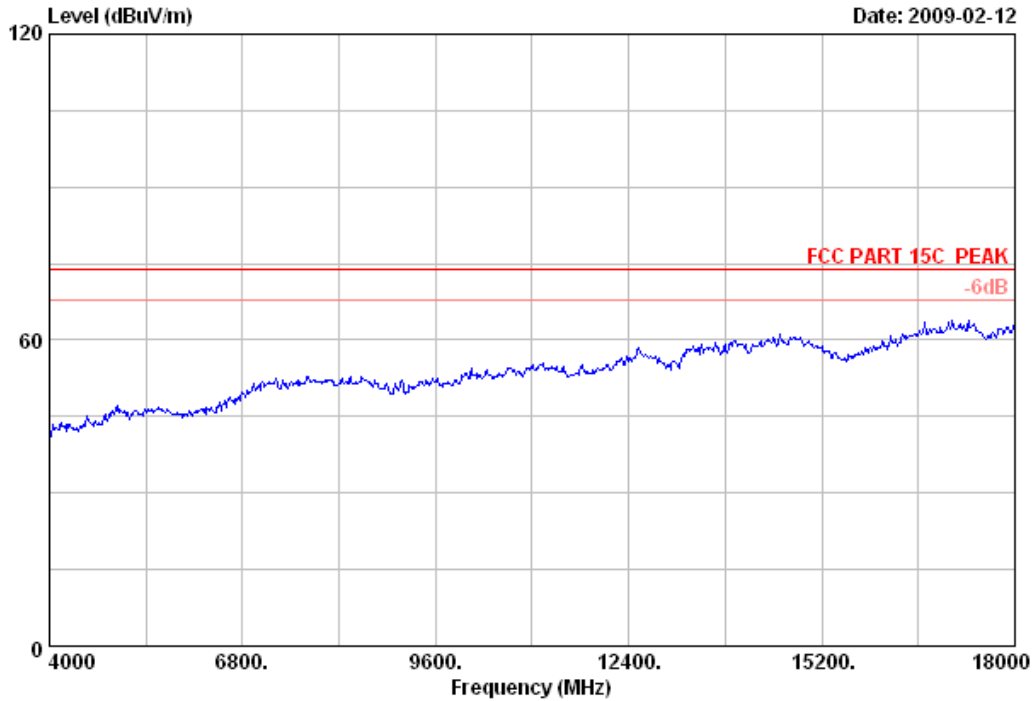
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 3 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

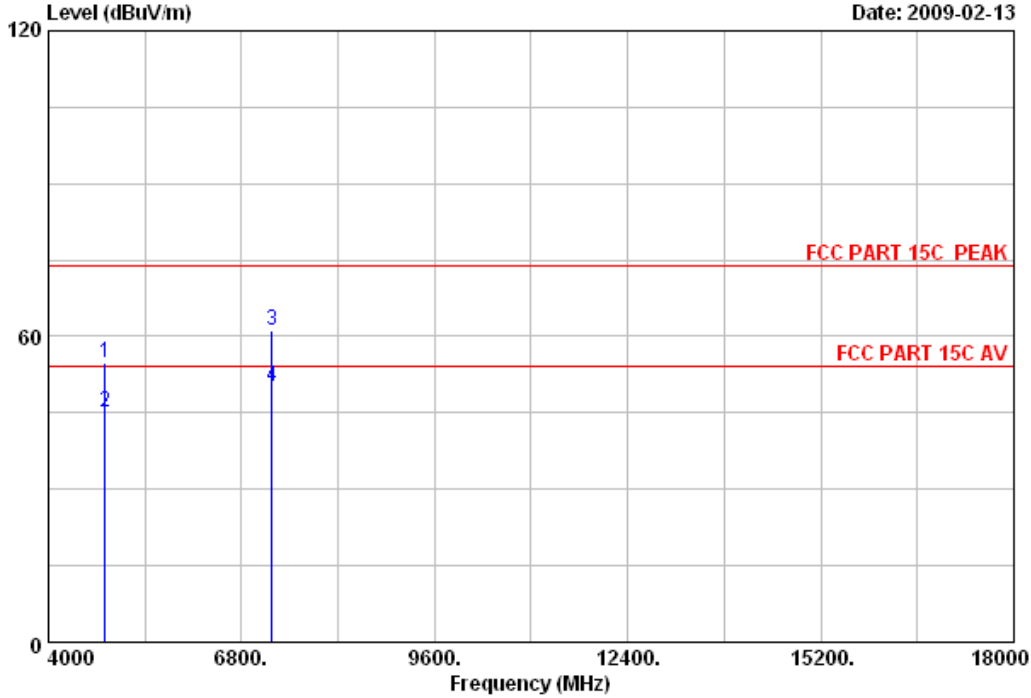


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 3 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH1 2412MHz | | |
| M/N | : | | |



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Data: 4 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.47 | 10.55 | 34.59 | 44.51 | 54.94 | 74.00 | 19.06 | Peak |
| 2 | 4824.000 | 34.47 | 10.55 | 34.59 | 34.73 | 45.16 | 54.00 | 8.84 | Average |
| 3 | 7236.000 | 38.43 | 12.16 | 34.49 | 45.20 | 61.30 | 74.00 | 12.70 | Peak |
| 4 | 7236.000 | 38.43 | 12.16 | 34.49 | 33.93 | 50.03 | 54.00 | 3.97 | Average |

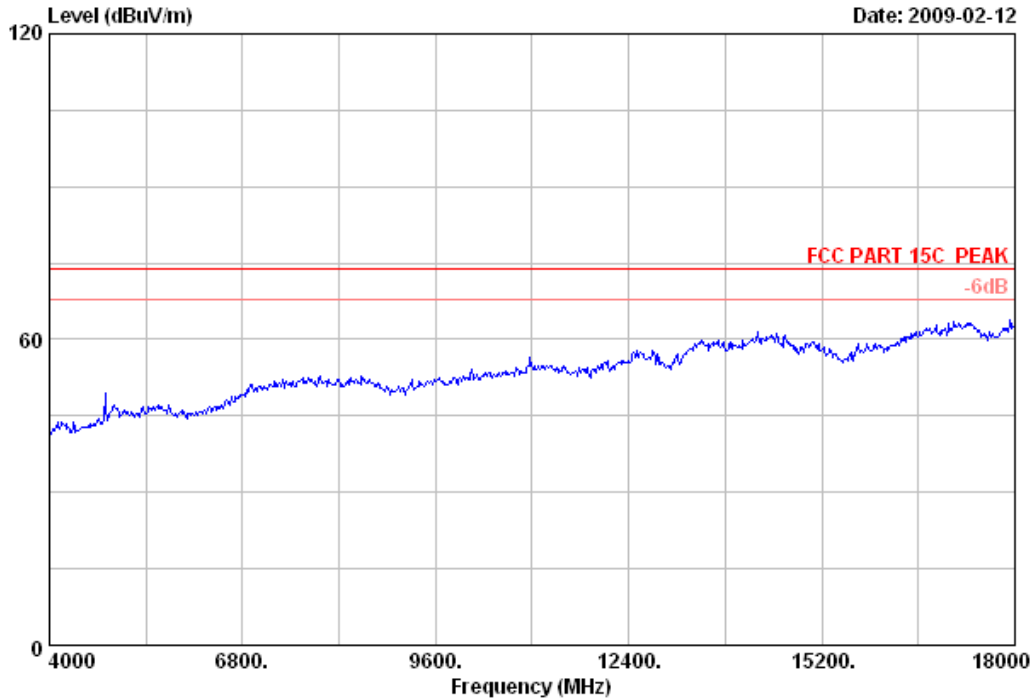
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 5 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

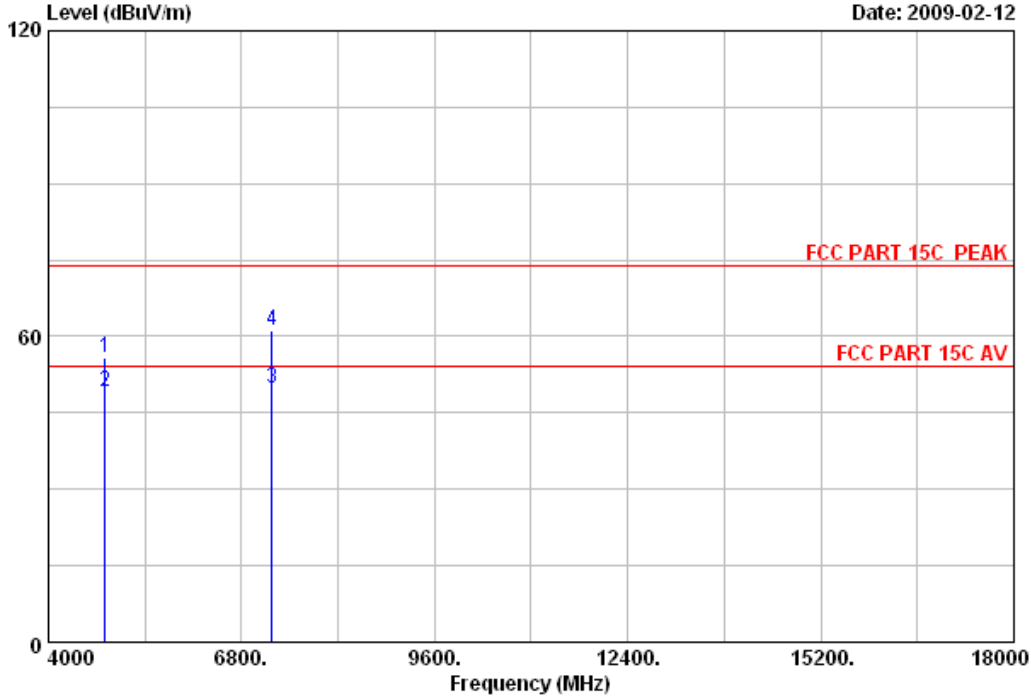


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 5 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH1 2412MHz | | |
| M/N | : | | |



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Data: 6 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.47 | 10.55 | 34.59 | 45.45 | 55.88 | 74.00 | 18.12 | Peak |
| 2 | 4824.000 | 34.47 | 10.55 | 34.59 | 38.57 | 49.00 | 54.00 | 5.00 | Average |
| 3 | 7236.000 | 38.43 | 12.16 | 34.49 | 33.75 | 49.85 | 54.00 | 4.15 | Average |
| 4 | 7236.000 | 38.43 | 12.16 | 34.49 | 44.94 | 61.04 | 74.00 | 12.96 | Peak |

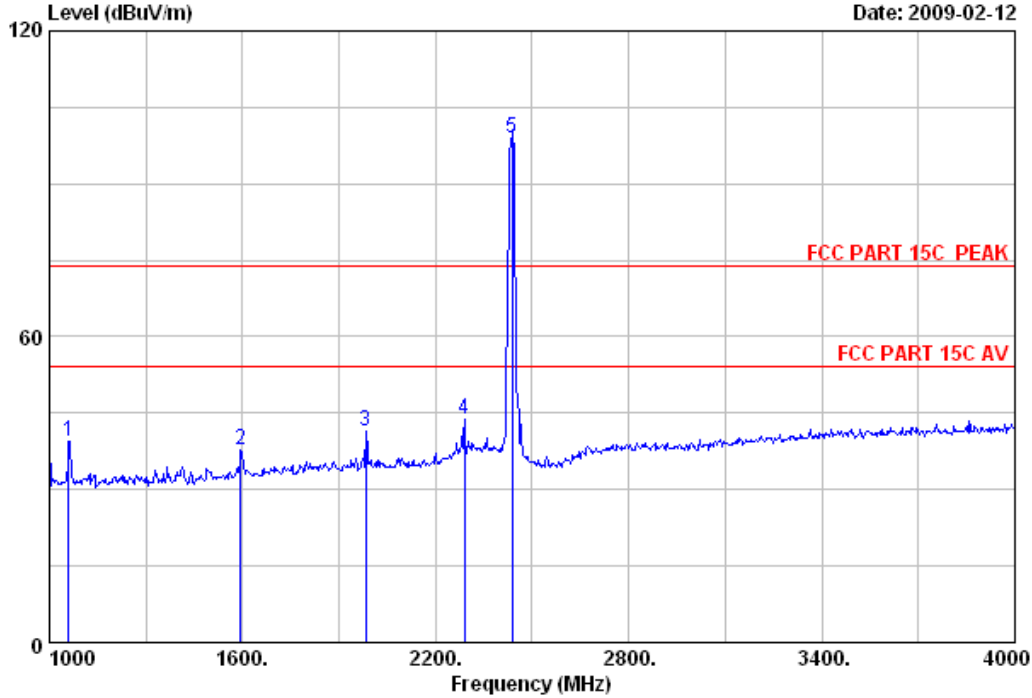
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 7 File: E:\2009 report data\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | | |
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 45.95 | 39.49 | 74.00 | 34.51 | Peak |
| 2 | 1594.000 | 26.30 | 5.43 | 35.65 | 41.62 | 37.70 | 74.00 | 36.30 | Peak |
| 3 | 1984.000 | 27.83 | 6.16 | 35.20 | 42.55 | 41.34 | 74.00 | 32.66 | Peak |
| 4 | 2290.000 | 28.31 | 6.61 | 35.14 | 44.04 | 43.82 | 74.00 | 30.18 | Peak |
| 5 | 2437.000 | 28.53 | 6.80 | 35.11 | 98.57 | 98.79 | 74.00 | -24.79 | Peak |

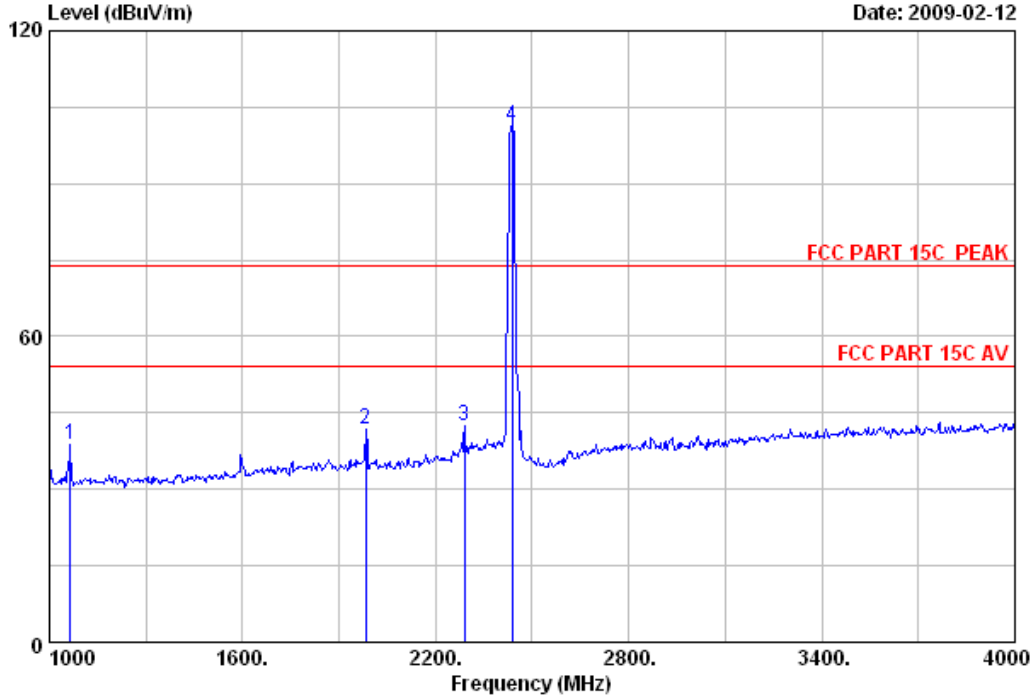
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 8 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 45.18 | 38.78 | 74.00 | 35.22 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 43.00 | 41.79 | 74.00 | 32.21 | Peak |
| 3 | 2290.000 | 28.31 | 6.61 | 35.14 | 42.77 | 42.55 | 74.00 | 31.45 | Peak |
| 4 | 2437.000 | 28.53 | 6.80 | 35.11 | 100.93 | 101.15 | 74.00 | -27.15 | Peak |

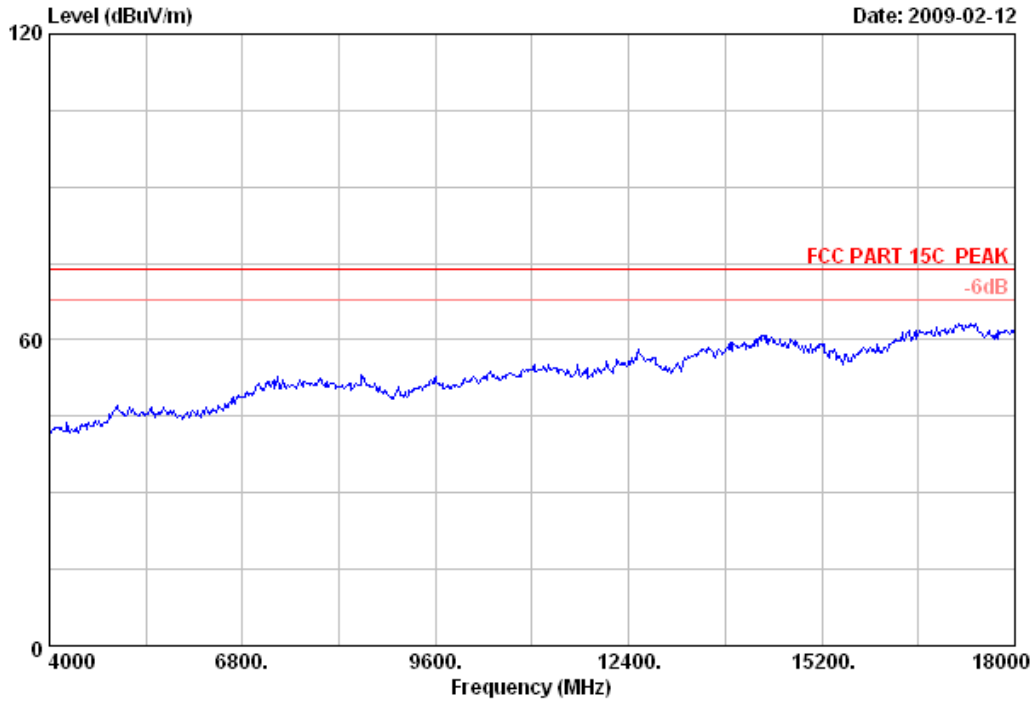
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 9 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

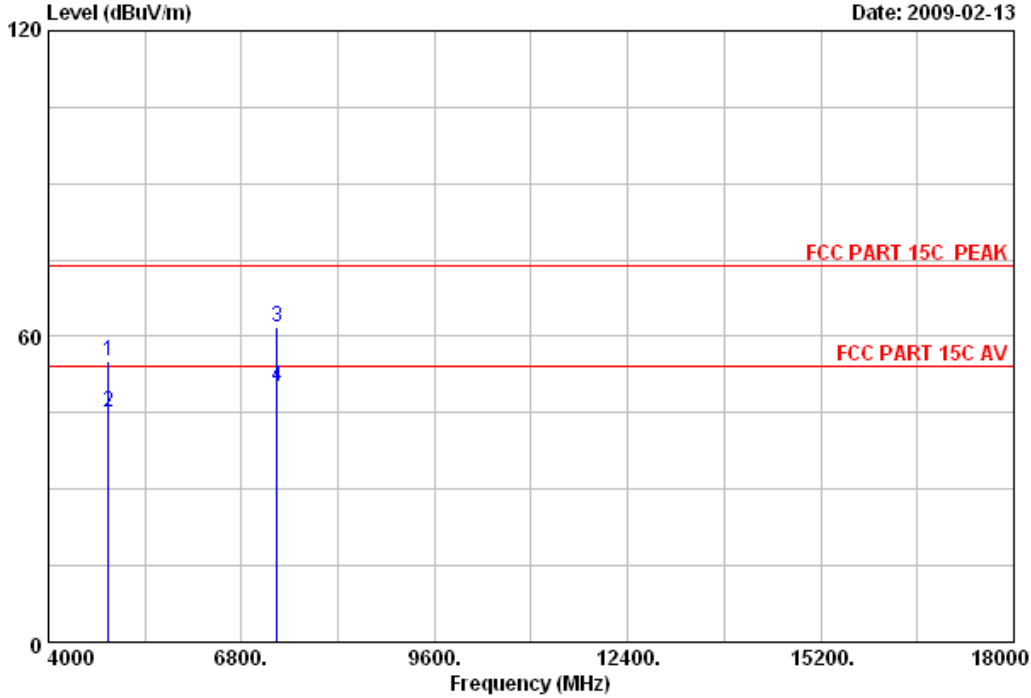


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 9 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH6 2437MHz | | |
| M/N | : | | |



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Data: 10 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 10
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 44.24 | 55.00 | 74.00 | 19.00 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 34.42 | 45.18 | 54.00 | 8.82 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 45.48 | 61.74 | 74.00 | 12.26 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 33.96 | 50.22 | 54.00 | 3.78 | Average |

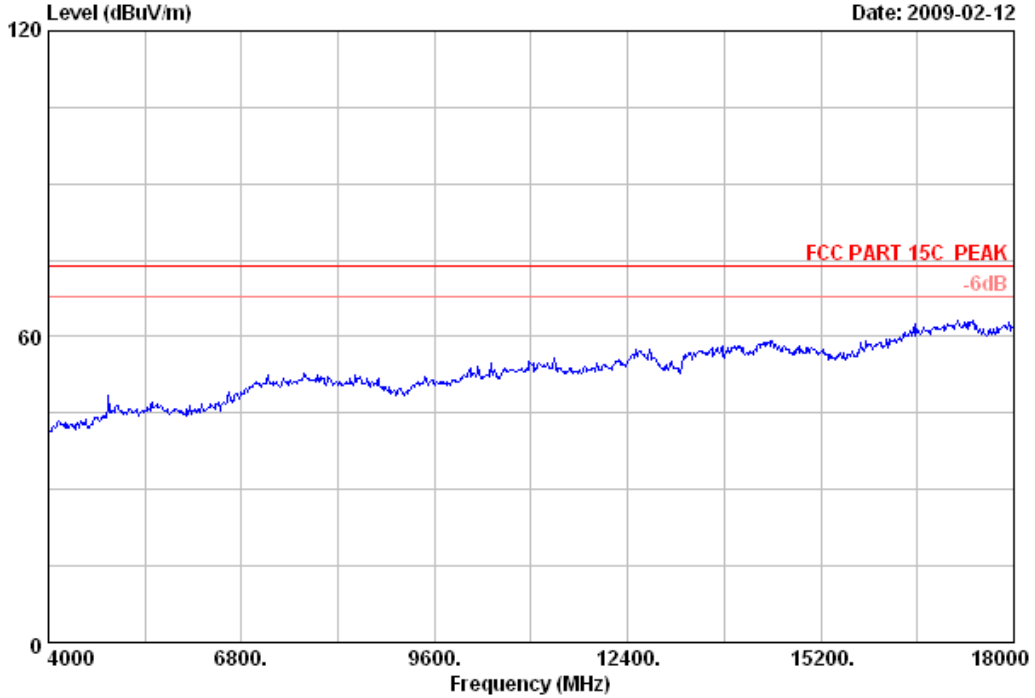
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

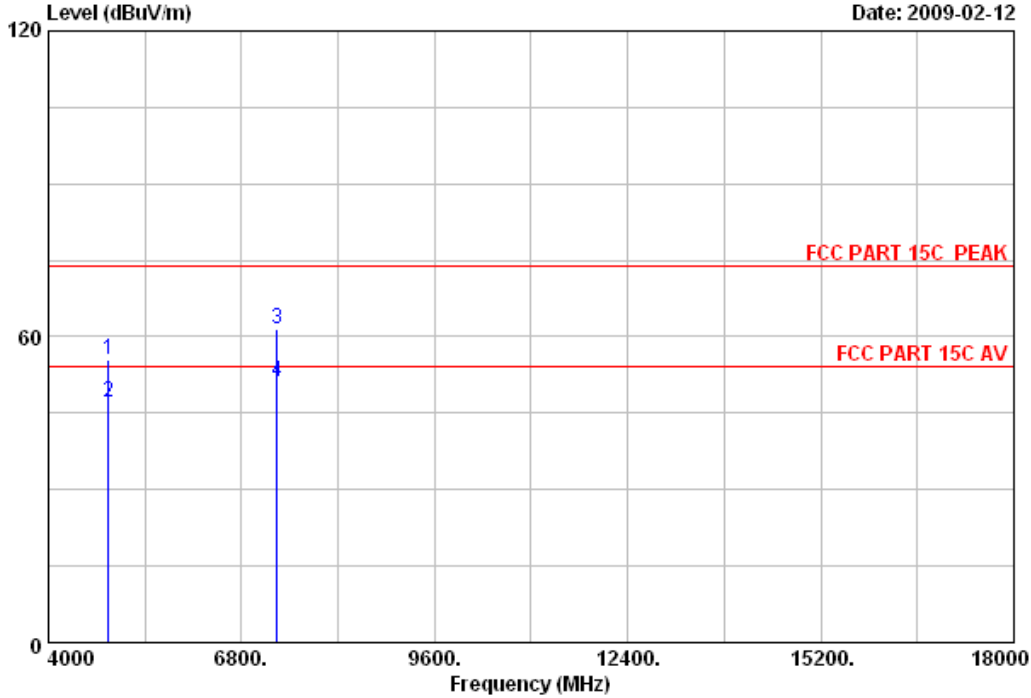


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 11 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH6 2437MHz | | |
| M/N | : | | |



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Data: 12 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 12
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 44.64 | 55.40 | 74.00 | 18.60 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 36.38 | 47.14 | 54.00 | 6.86 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 45.34 | 61.60 | 74.00 | 12.40 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 34.74 | 51.00 | 54.00 | 3.00 | Average |

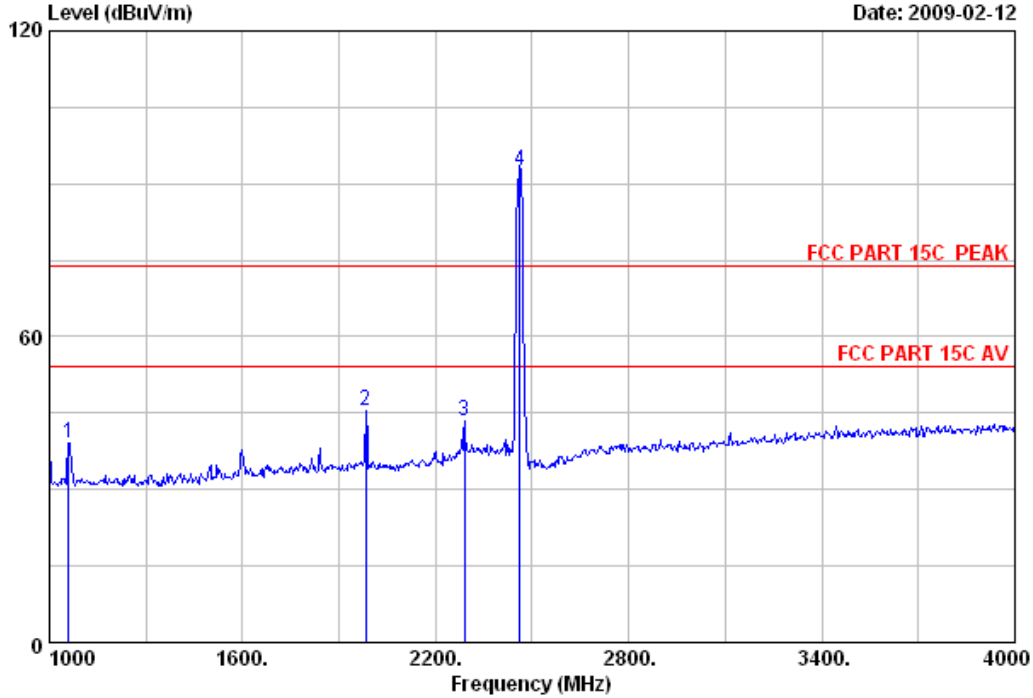
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 13 File: E:\2009 report data\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 13
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|-------|----------|-------|----------|--------|--------|
| | (MHz) | (dB/m) | (dB) | (dB) | Reading | Level | (dBuV/m) | (dB) | |
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 45.67 | 39.21 | 74.00 | 34.79 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 46.75 | 45.54 | 74.00 | 28.46 | Peak |
| 3 | 2290.000 | 28.31 | 6.61 | 35.14 | 43.82 | 43.60 | 74.00 | 30.40 | Peak |
| 4 | 2462.000 | 28.55 | 6.84 | 35.11 | 92.23 | 92.51 | 74.00 | -18.51 | Peak |

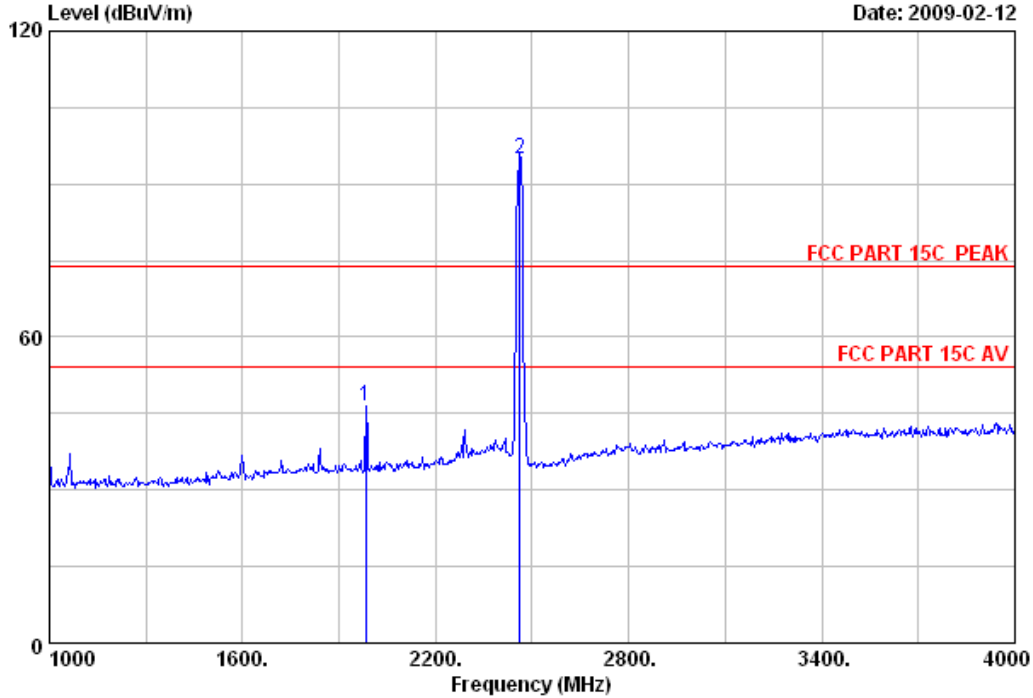
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 14 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 14
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 47.71 | 46.50 | 74.00 | 27.50 | Peak |
| 2 | 2462.000 | 28.55 | 6.84 | 35.11 | 94.64 | 94.92 | 74.00 | -20.92 | Peak |

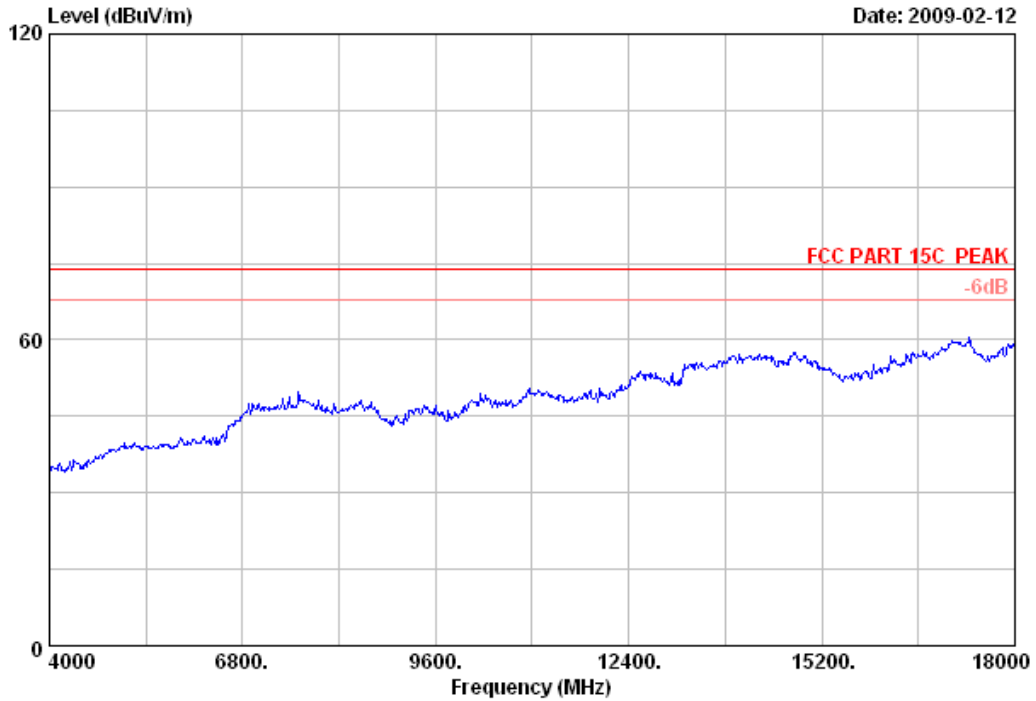
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 15 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

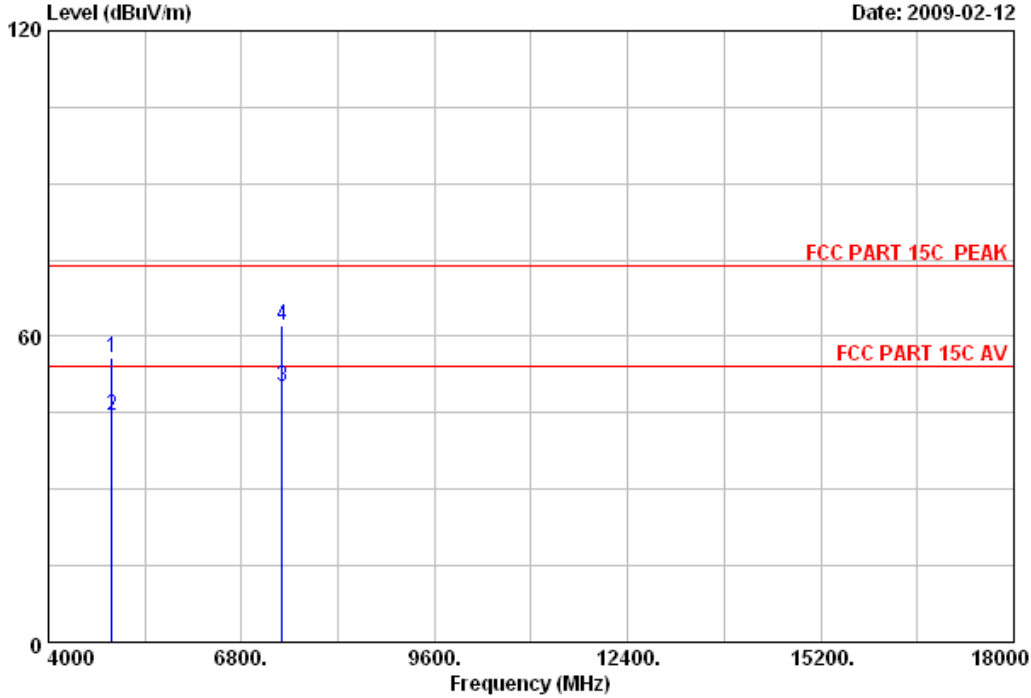


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 15 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH11 2462MHz | | |
| M/N | : | | |



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Data: 16 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 16
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 35.09 | 10.58 | 34.57 | 44.56 | 55.66 | 74.00 | 18.34 | Peak |
| 2 | 4924.000 | 35.09 | 10.58 | 34.57 | 33.29 | 44.39 | 54.00 | 9.61 | Average |
| 3 | 7386.000 | 38.77 | 12.31 | 34.51 | 33.57 | 50.14 | 54.00 | 3.86 | Average |
| 4 | 7386.000 | 38.77 | 12.31 | 34.51 | 45.44 | 62.01 | 74.00 | 11.99 | Peak |

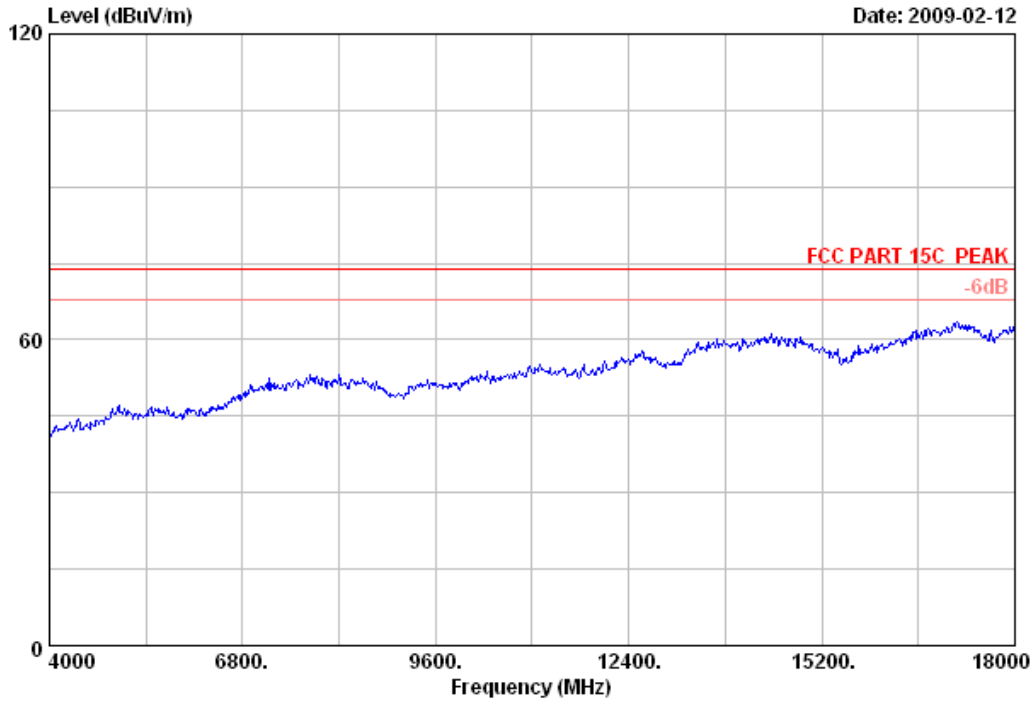
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 17 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

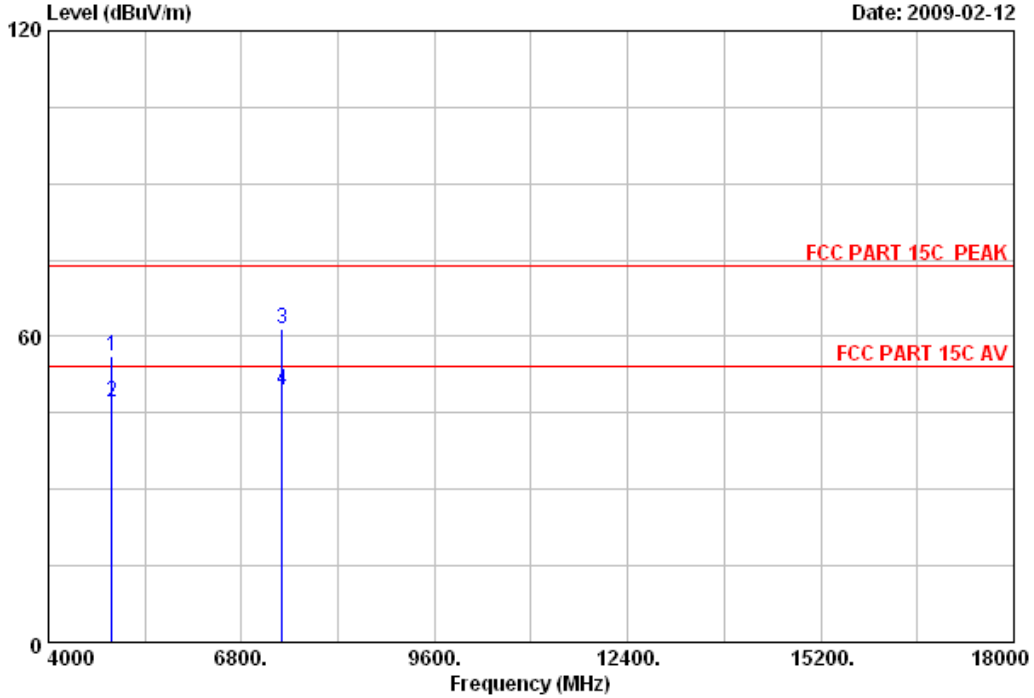


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 17 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH11 2462MHz | | |
| M/N | : | | |



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Data: 18 File: E:\2009 report data\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 18
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Margin | Remark | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | Limits | | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4924.000 | 35.09 | 10.58 | 34.57 | 44.93 | 56.03 | 74.00 | 17.97 | Peak |
| 2 | 4924.000 | 35.09 | 10.58 | 34.57 | 35.96 | 47.06 | 54.00 | 6.94 | Average |
| 3 | 7386.000 | 38.77 | 12.31 | 34.51 | 44.92 | 61.49 | 74.00 | 12.51 | Peak |
| 4 | 7386.000 | 38.77 | 12.31 | 34.51 | 32.89 | 49.46 | 54.00 | 4.54 | Average |

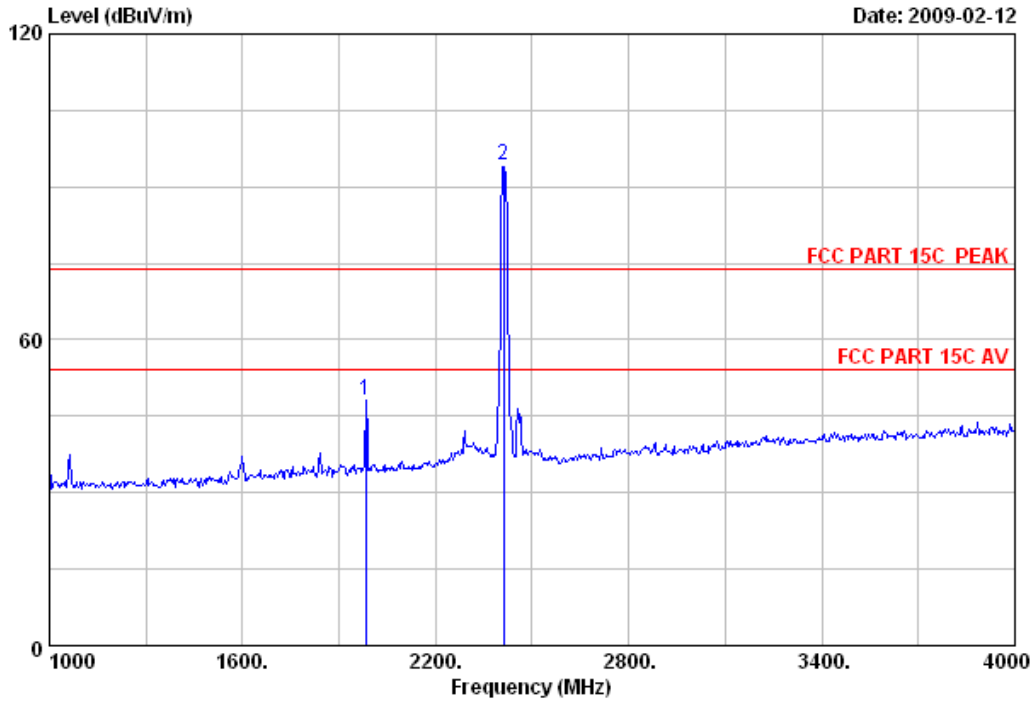
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 19 File: E:\2009 report data\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 19
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 49.50 | 48.29 | 74.00 | 25.71 | Peak |
| 2 | 2412.000 | 28.48 | 6.73 | 35.12 | 94.07 | 94.16 | 74.00 | -20.16 | Peak |

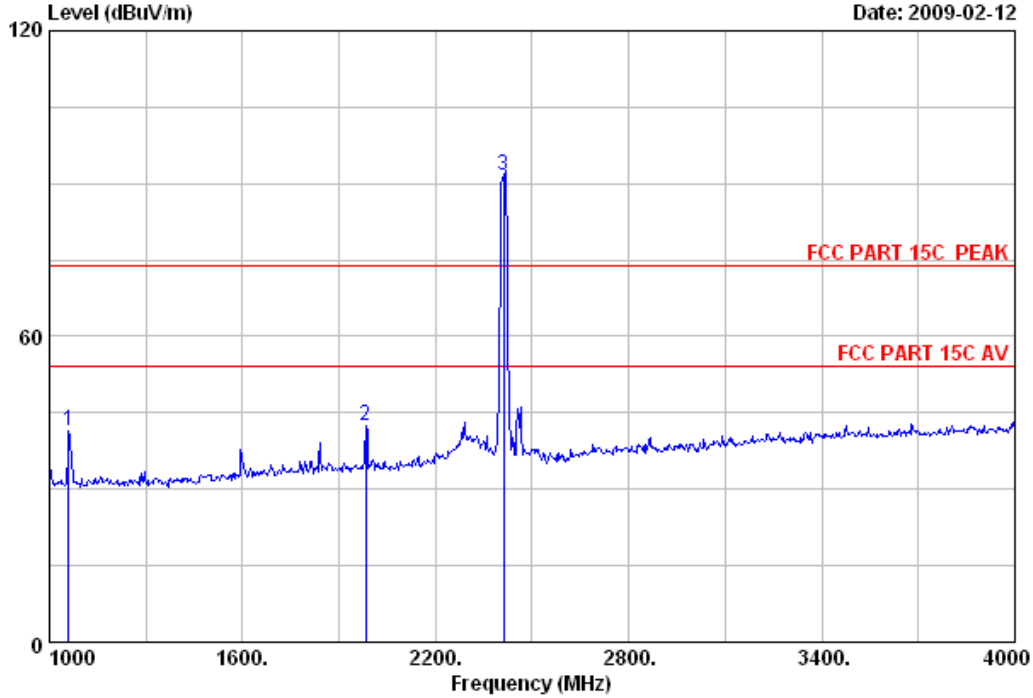
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 20 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 20
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 47.87 | 41.41 | 74.00 | 32.59 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 43.75 | 42.54 | 74.00 | 31.46 | Peak |
| 3 | 2412.000 | 28.48 | 6.73 | 35.12 | 91.58 | 91.67 | 74.00 | -17.67 | Peak |

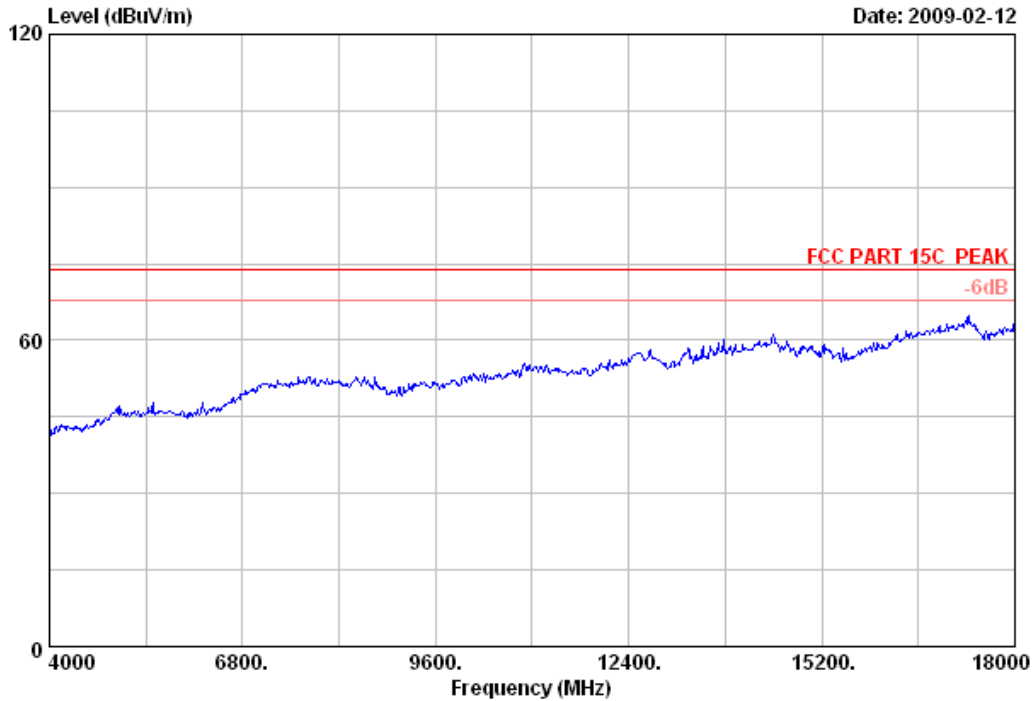
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 21 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

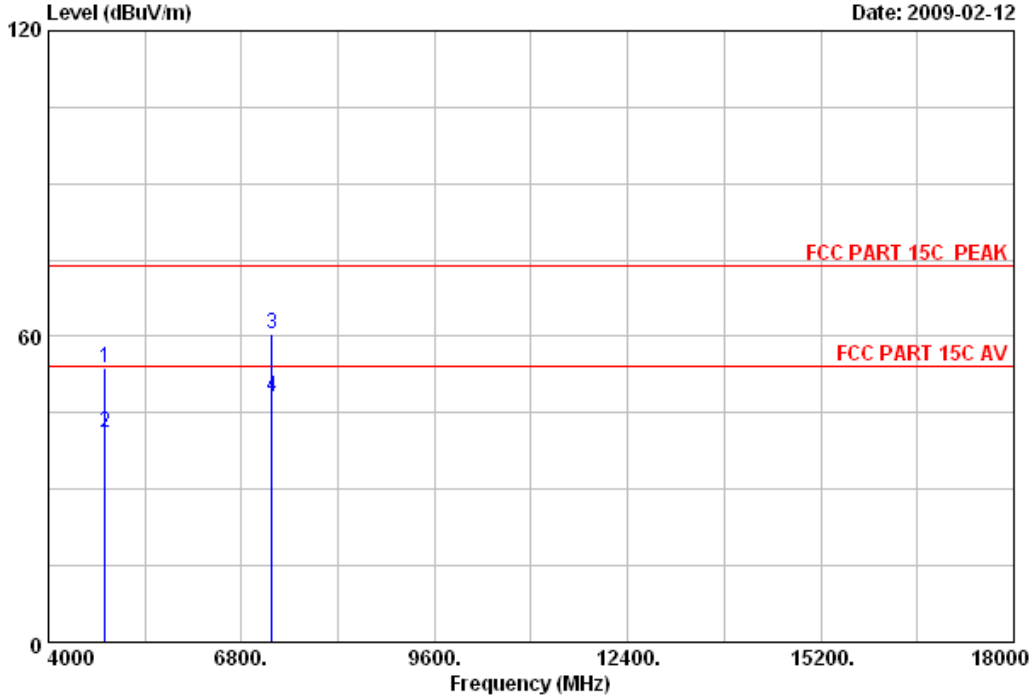


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 21 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH1 2412MHz | | |
| M/N | : | | |



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Data: 22 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 22
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.47 | 10.55 | 34.59 | 43.43 | 53.86 | 74.00 | 20.14 | Peak |
| 2 | 4824.000 | 34.47 | 10.55 | 34.59 | 30.62 | 41.05 | 54.00 | 12.95 | Average |
| 3 | 7236.000 | 38.43 | 12.16 | 34.49 | 44.42 | 60.52 | 74.00 | 13.48 | Peak |
| 4 | 7236.000 | 38.43 | 12.16 | 34.49 | 31.94 | 48.04 | 54.00 | 5.96 | Average |

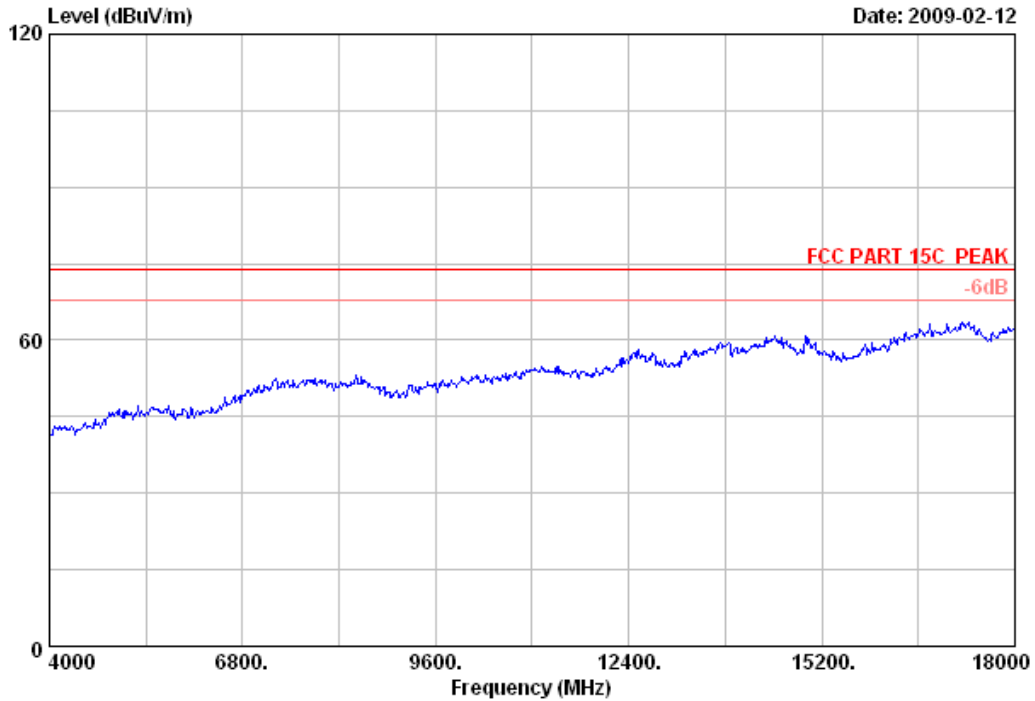
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 23 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

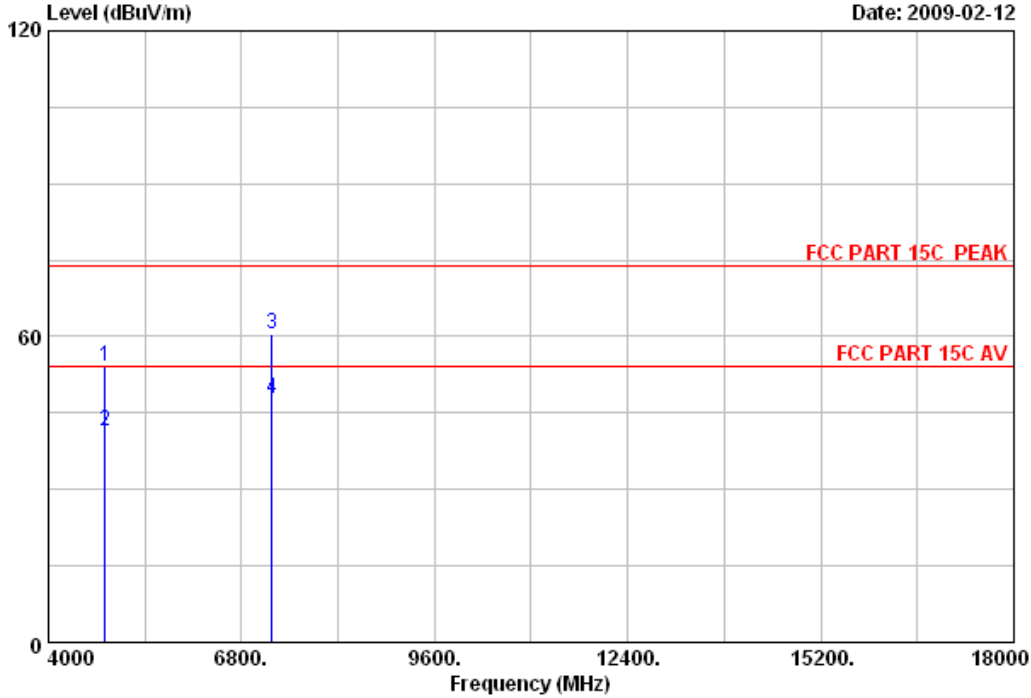


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 23 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH1 2412MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 24
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.47 | 10.55 | 34.59 | 43.62 | 54.05 | 74.00 | 19.95 | Peak |
| 2 | 4824.000 | 34.47 | 10.55 | 34.59 | 31.13 | 41.56 | 54.00 | 12.44 | Average |
| 3 | 7236.000 | 38.43 | 12.16 | 34.49 | 44.24 | 60.34 | 74.00 | 13.66 | Peak |
| 4 | 7236.000 | 38.43 | 12.16 | 34.49 | 31.76 | 47.86 | 54.00 | 6.14 | Average |

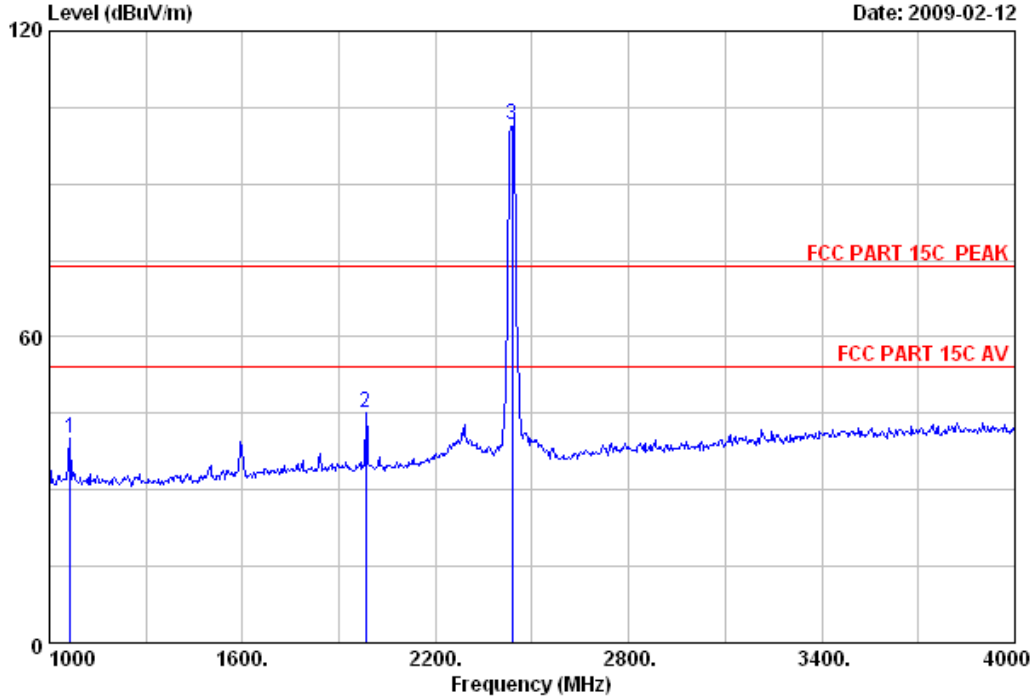
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 25
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 46.59 | 40.19 | 74.00 | 33.81 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 46.22 | 45.01 | 74.00 | 28.99 | Peak |
| 3 | 2437.000 | 28.53 | 6.80 | 35.11 | 101.44 | 101.66 | 74.00 | -27.66 | Peak |

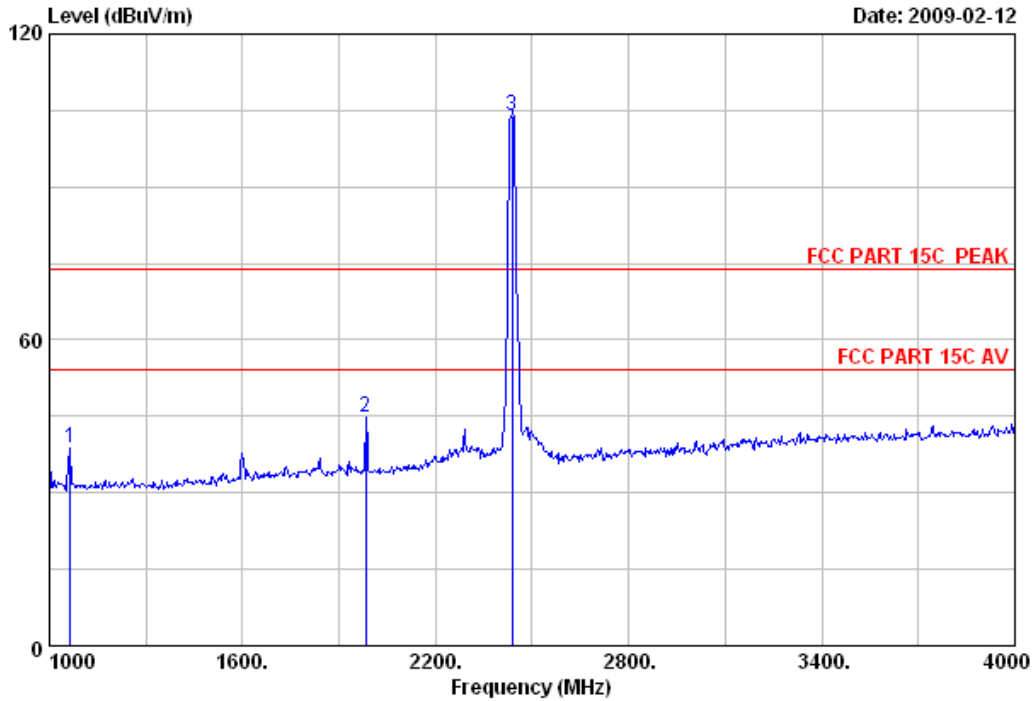
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 26
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | | |
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 45.23 | 38.83 | 74.00 | 35.17 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 45.87 | 44.66 | 74.00 | 29.34 | Peak |
| 3 | 2437.000 | 28.53 | 6.80 | 35.11 | 103.68 | 103.90 | 74.00 | -29.90 | Peak |

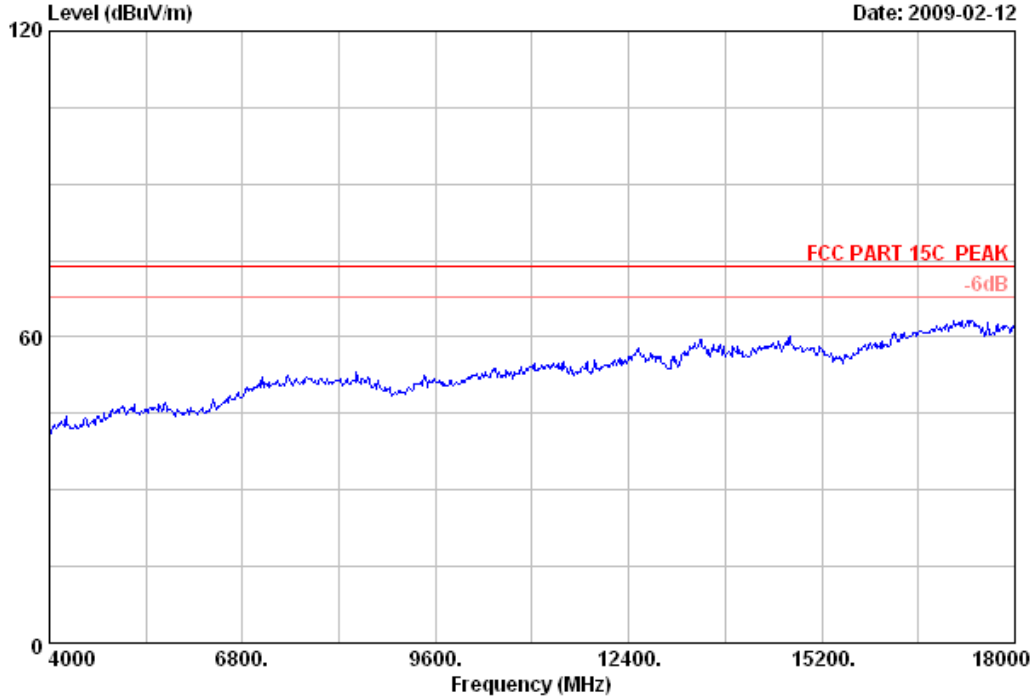
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 27 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

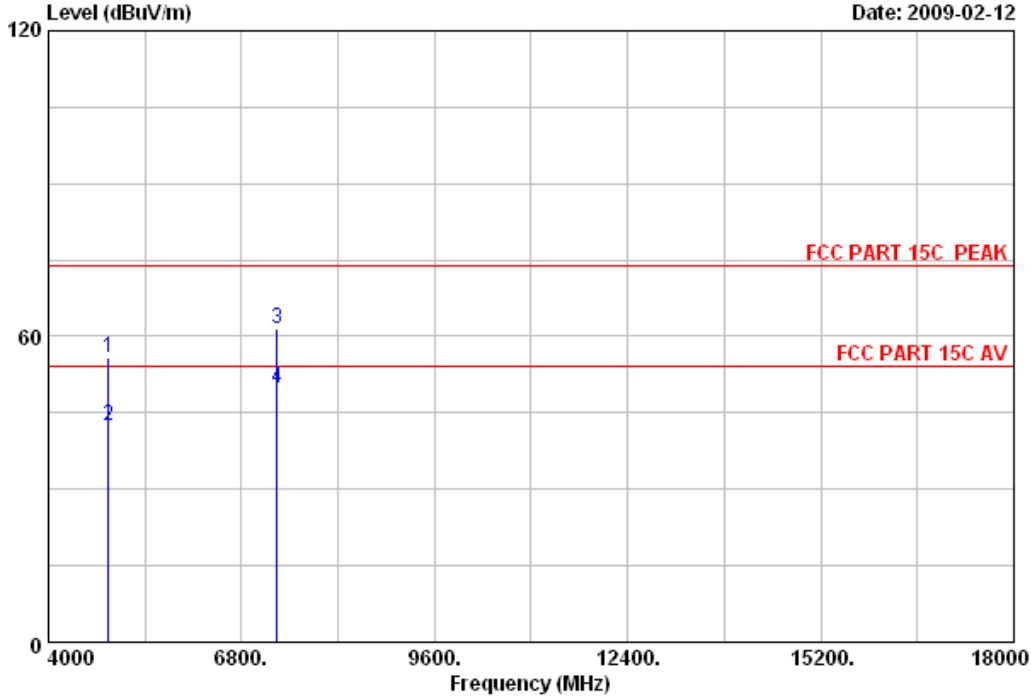


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 27 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH6 2437MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 28
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 45.06 | 55.82 | 74.00 | 18.18 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 31.78 | 42.54 | 54.00 | 11.46 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 45.08 | 61.34 | 74.00 | 12.66 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 33.55 | 49.81 | 54.00 | 4.19 | Average |

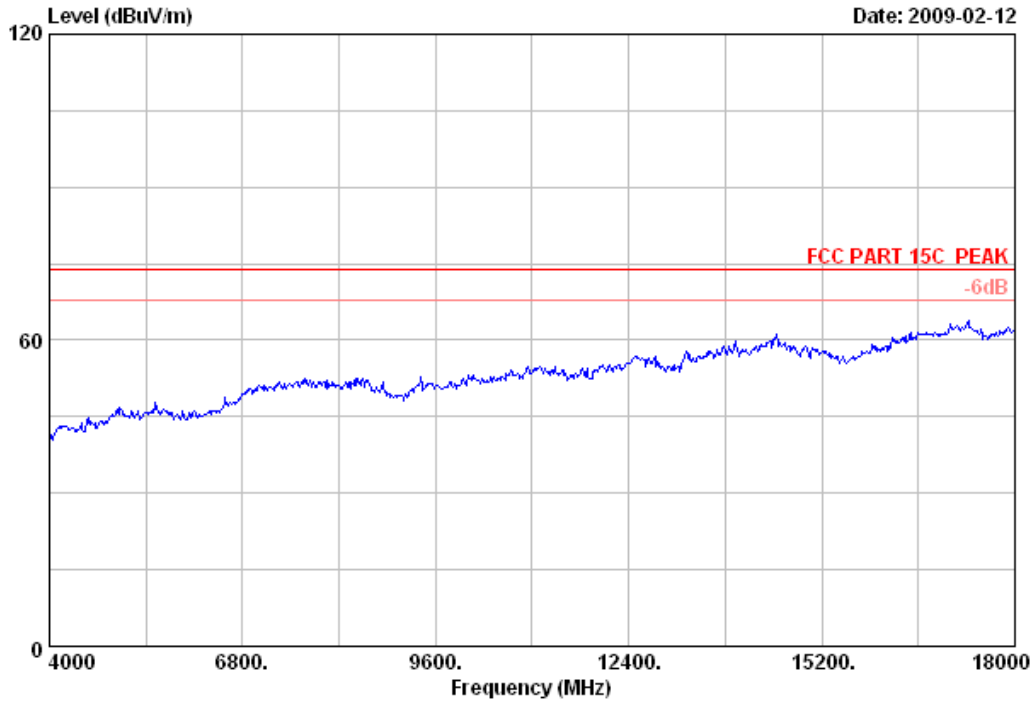
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 29 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

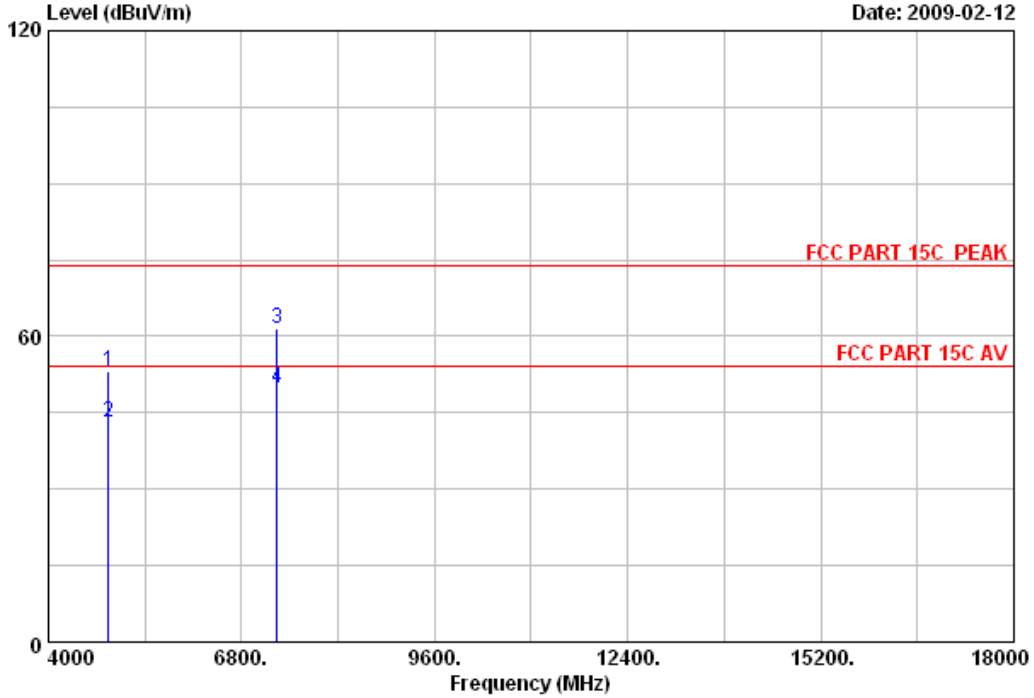


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 29 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH6 2437MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 30
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 42.44 | 53.20 | 74.00 | 20.80 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 32.29 | 43.05 | 54.00 | 10.95 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 45.28 | 61.54 | 74.00 | 12.46 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 33.48 | 49.74 | 54.00 | 4.26 | Average |

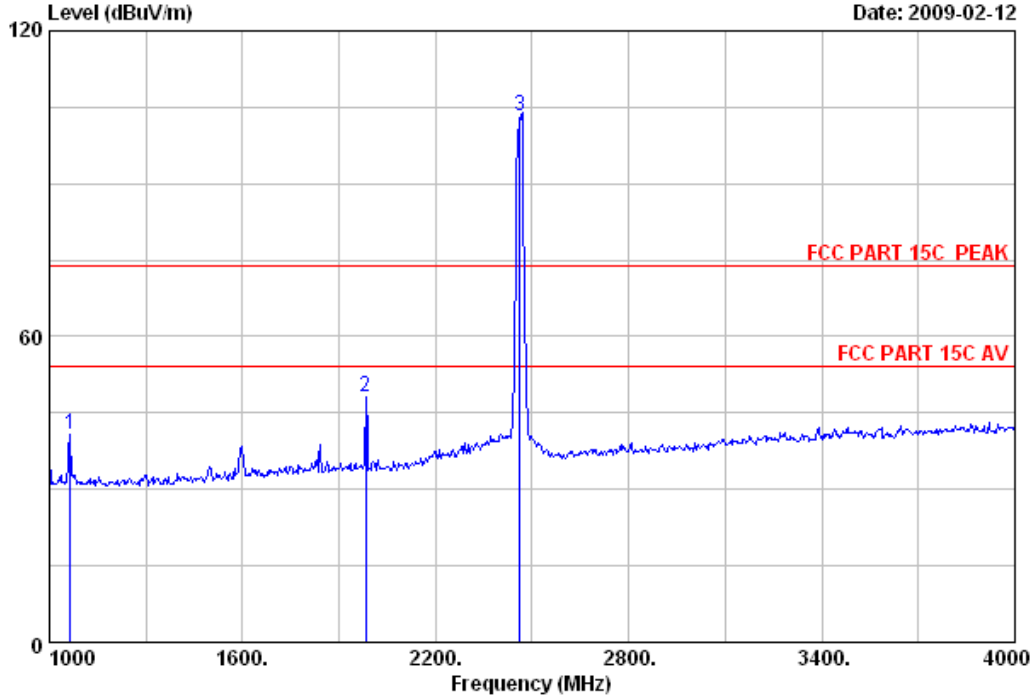
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 31 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 31
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 47.06 | 40.66 | 74.00 | 33.34 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 49.22 | 48.01 | 74.00 | 25.99 | Peak |
| 3 | 2462.000 | 28.55 | 6.84 | 35.11 | 102.85 | 103.13 | 74.00 | -29.13 | Peak |

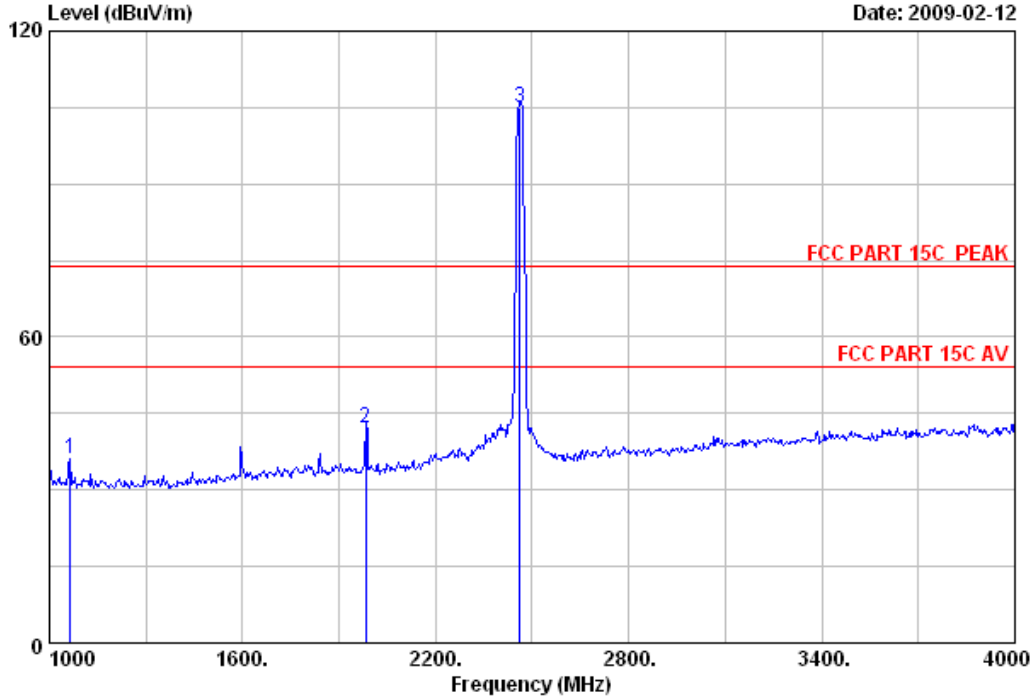
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 32
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 42.40 | 36.00 | 74.00 | 38.00 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 43.45 | 42.24 | 74.00 | 31.76 | Peak |
| 3 | 2462.000 | 28.55 | 6.84 | 35.11 | 104.77 | 105.05 | 74.00 | -31.05 | Peak |

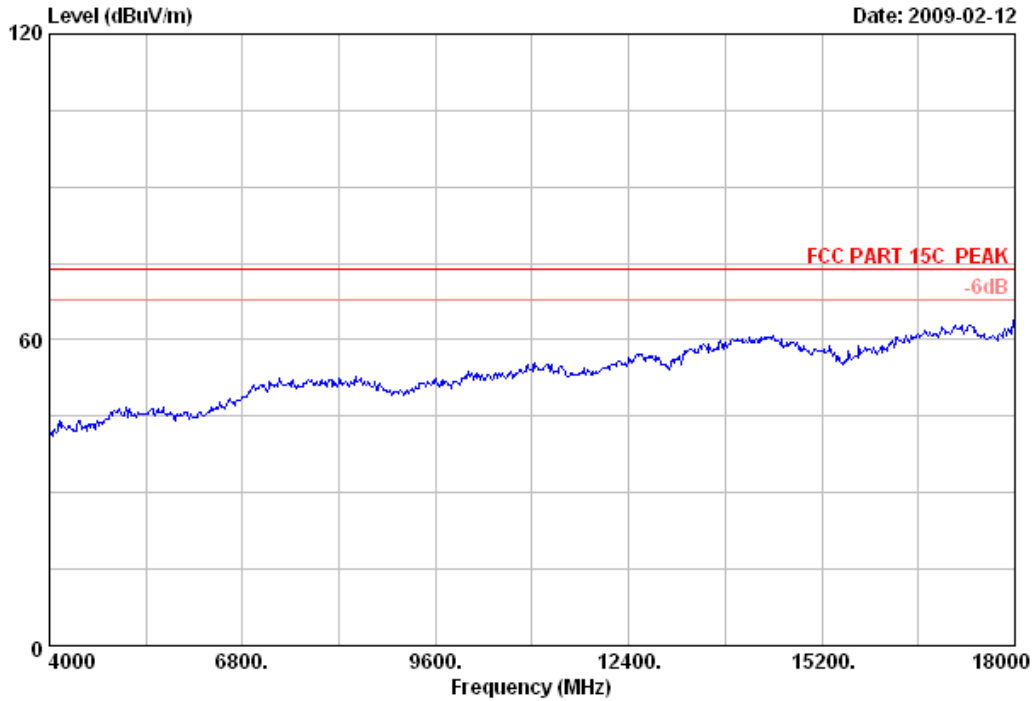
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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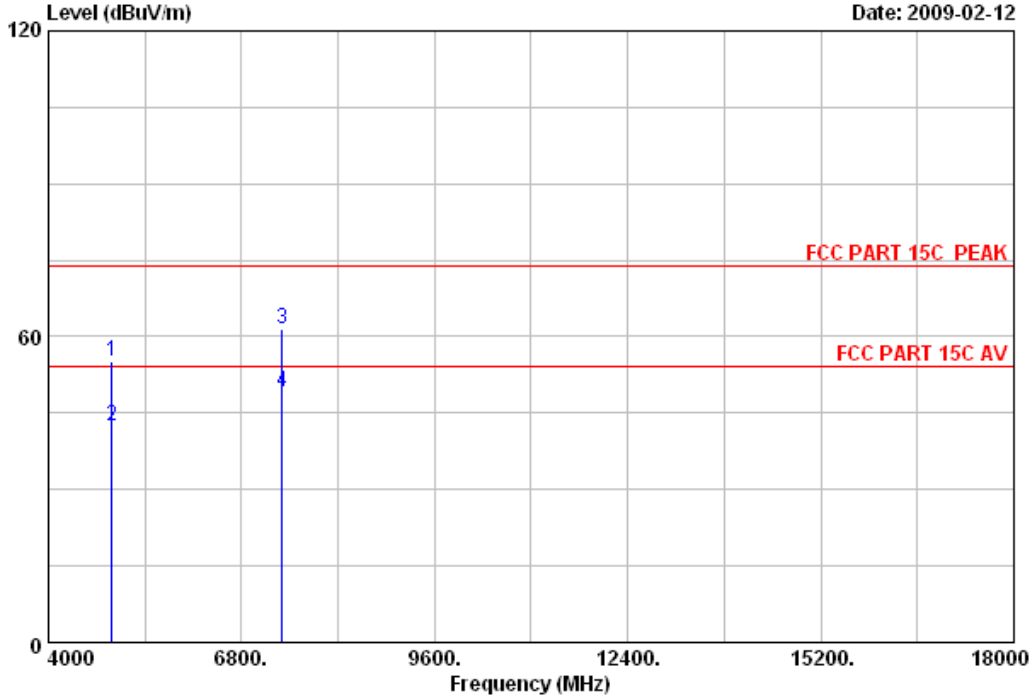


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 33 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH11 2462MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 34
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4924.000 | 35.09 | 10.58 | 34.57 | 43.94 | 55.04 | 74.00 | 18.96 | Peak |
| 2 | 4924.000 | 35.09 | 10.58 | 34.57 | 31.46 | 42.56 | 54.00 | 11.44 | Average |
| 3 | 7386.000 | 38.77 | 12.31 | 34.51 | 44.96 | 61.53 | 74.00 | 12.47 | Peak |
| 4 | 7386.000 | 38.77 | 12.31 | 34.51 | 32.50 | 49.07 | 54.00 | 4.93 | Average |

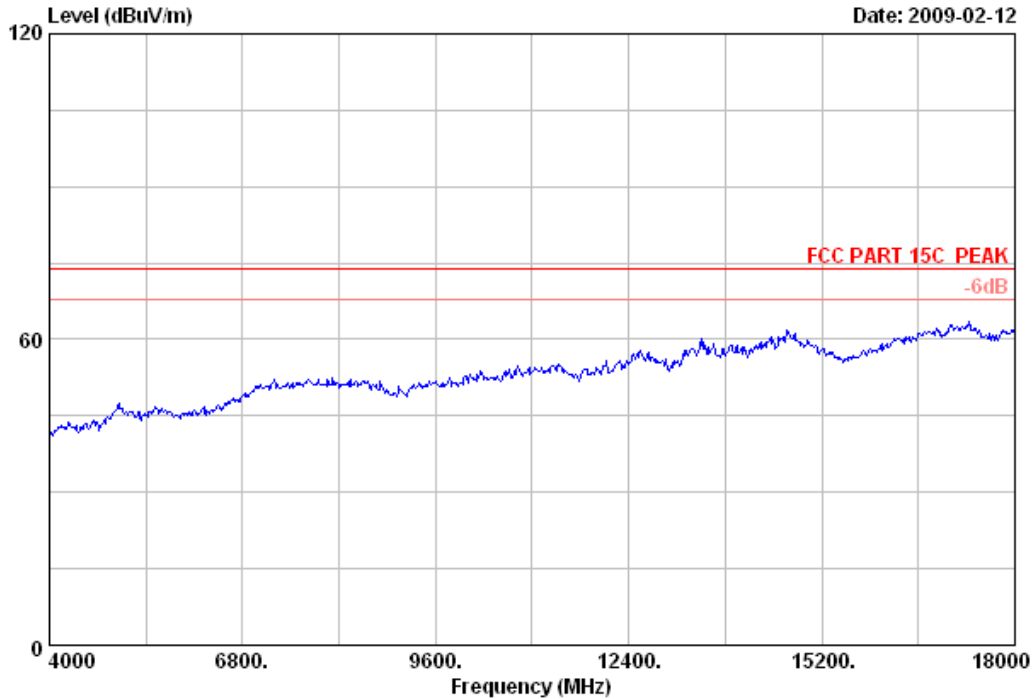
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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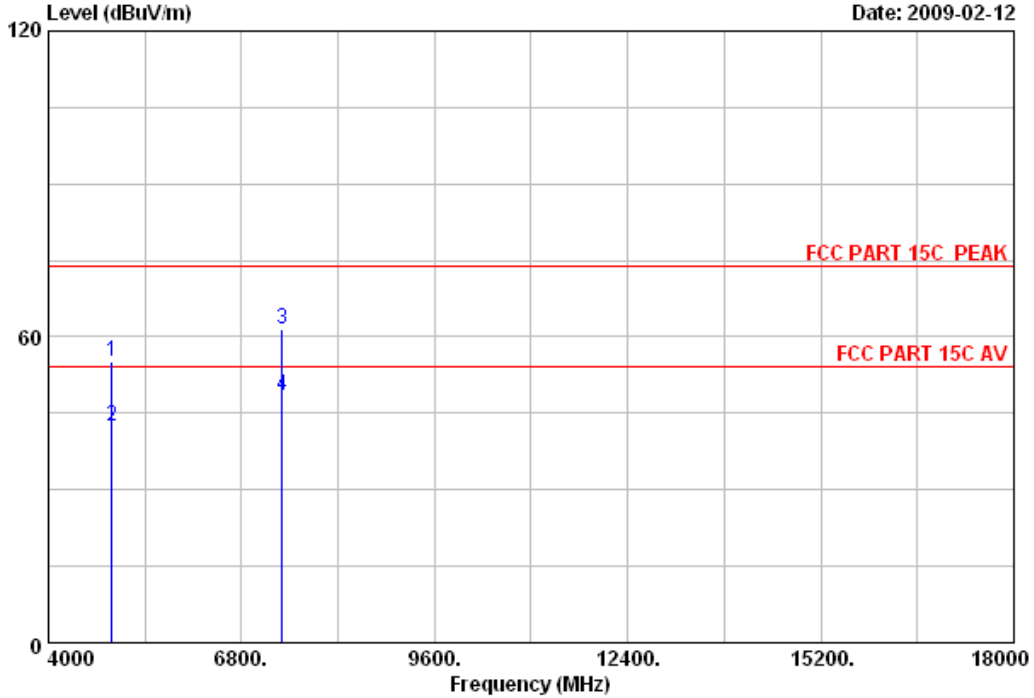


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 35 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH11 2462MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 36
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 35.09 | 10.58 | 34.57 | 43.95 | 55.05 | 74.00 | 18.95 | Peak |
| 2 | 4924.000 | 35.09 | 10.58 | 34.57 | 31.39 | 42.49 | 54.00 | 11.51 | Average |
| 3 | 7386.000 | 38.77 | 12.31 | 34.51 | 44.80 | 61.37 | 74.00 | 12.63 | Peak |
| 4 | 7386.000 | 38.77 | 12.31 | 34.51 | 32.06 | 48.63 | 54.00 | 5.37 | Average |

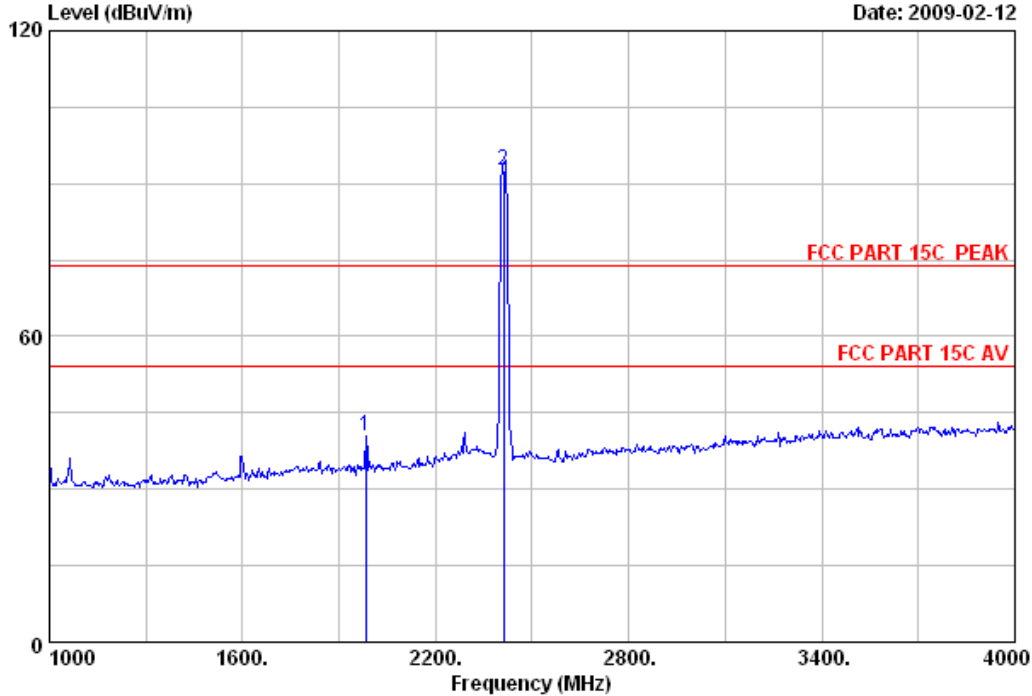
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 37
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 41.63 | 40.42 | 74.00 | 33.58 | Peak |
| 2 | 2412.000 | 28.48 | 6.73 | 35.12 | 92.51 | 92.60 | 74.00 | -18.60 | Peak |

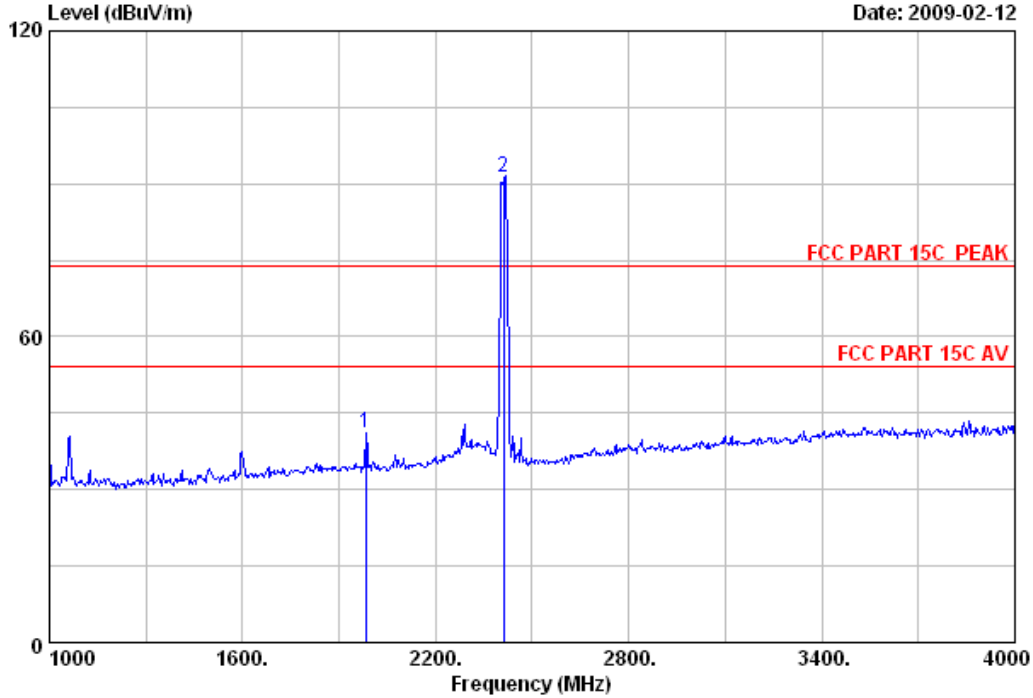
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 38
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBUV) | (dBUV/m) | (dBUV/m) | (dB) | |
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 42.46 | 41.25 | 74.00 | 32.75 | Peak |
| 2 | 2412.000 | 28.48 | 6.73 | 35.12 | 91.01 | 91.10 | 74.00 | -17.10 | Peak |

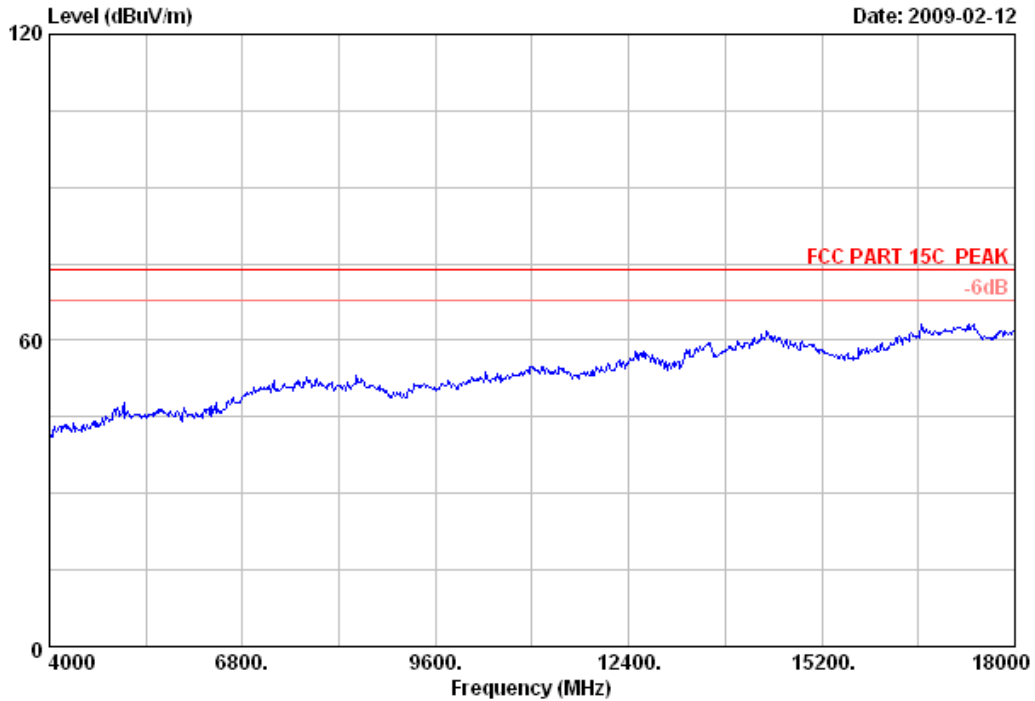
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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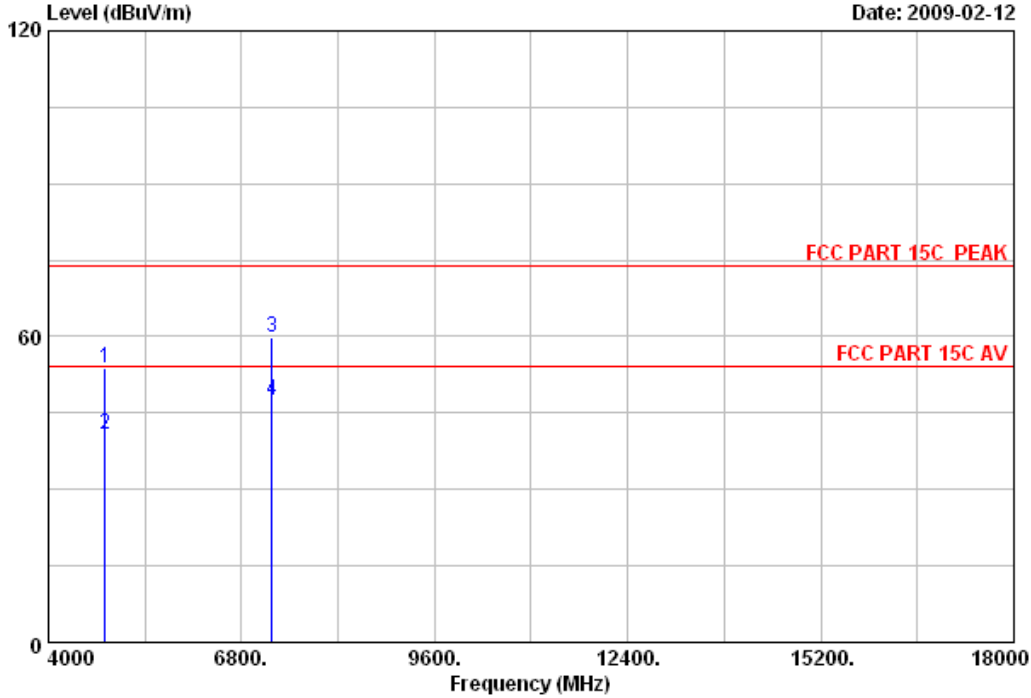


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 39 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT20 CH1 2412MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 40
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.47 | 10.55 | 34.59 | 43.35 | 53.78 | 74.00 | 20.22 | Peak |
| 2 | 4824.000 | 34.47 | 10.55 | 34.59 | 30.49 | 40.92 | 54.00 | 13.08 | Average |
| 3 | 7236.000 | 38.43 | 12.16 | 34.49 | 43.80 | 59.90 | 74.00 | 14.10 | Peak |
| 4 | 7236.000 | 38.43 | 12.16 | 34.49 | 31.44 | 47.54 | 54.00 | 6.46 | Average |

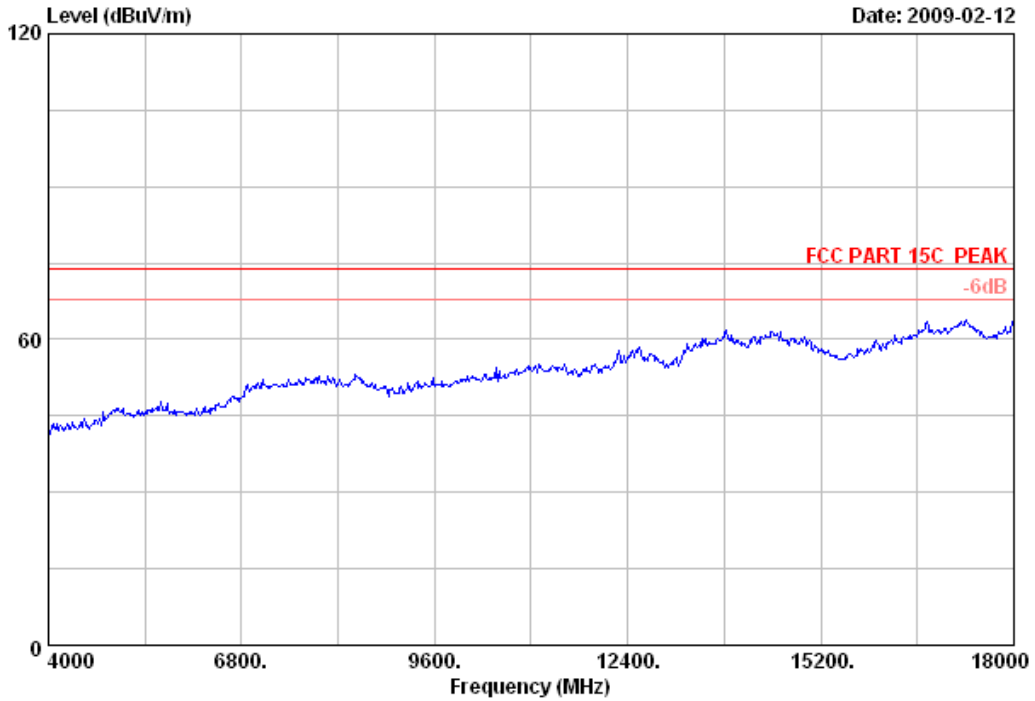
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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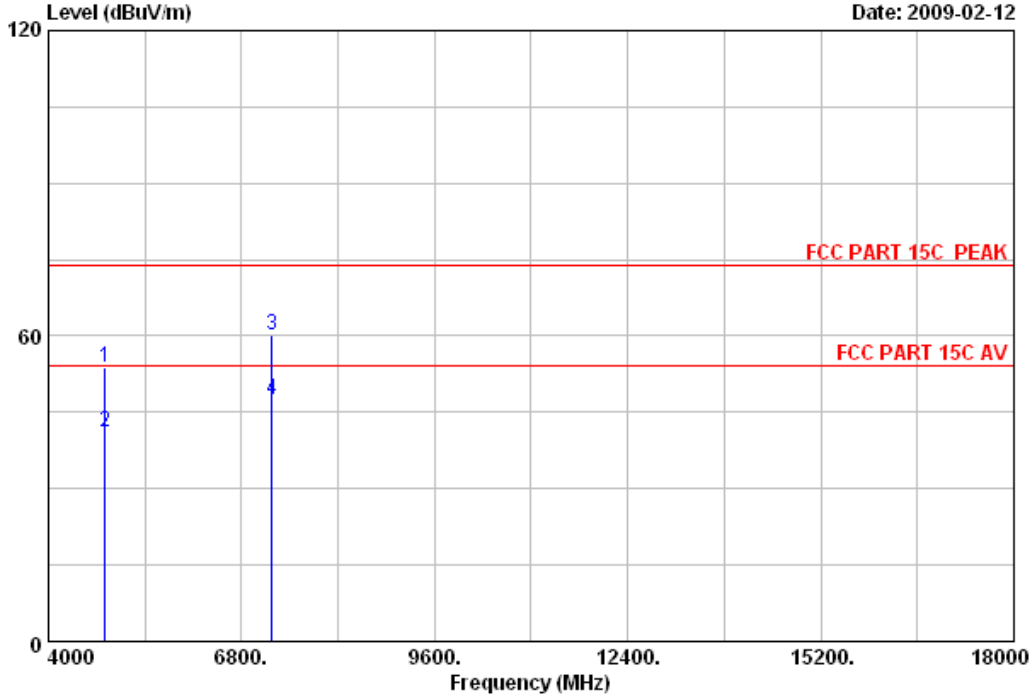


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 41 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT20 CH1 2412MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 42
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.47 | 10.55 | 34.59 | 43.31 | 53.74 | 74.00 | 20.26 | Peak |
| 2 | 4824.000 | 34.47 | 10.55 | 34.59 | 30.63 | 41.06 | 54.00 | 12.94 | Average |
| 3 | 7236.000 | 38.43 | 12.16 | 34.49 | 44.19 | 60.29 | 74.00 | 13.71 | Peak |
| 4 | 7236.000 | 38.43 | 12.16 | 34.49 | 31.40 | 47.50 | 54.00 | 6.50 | Average |

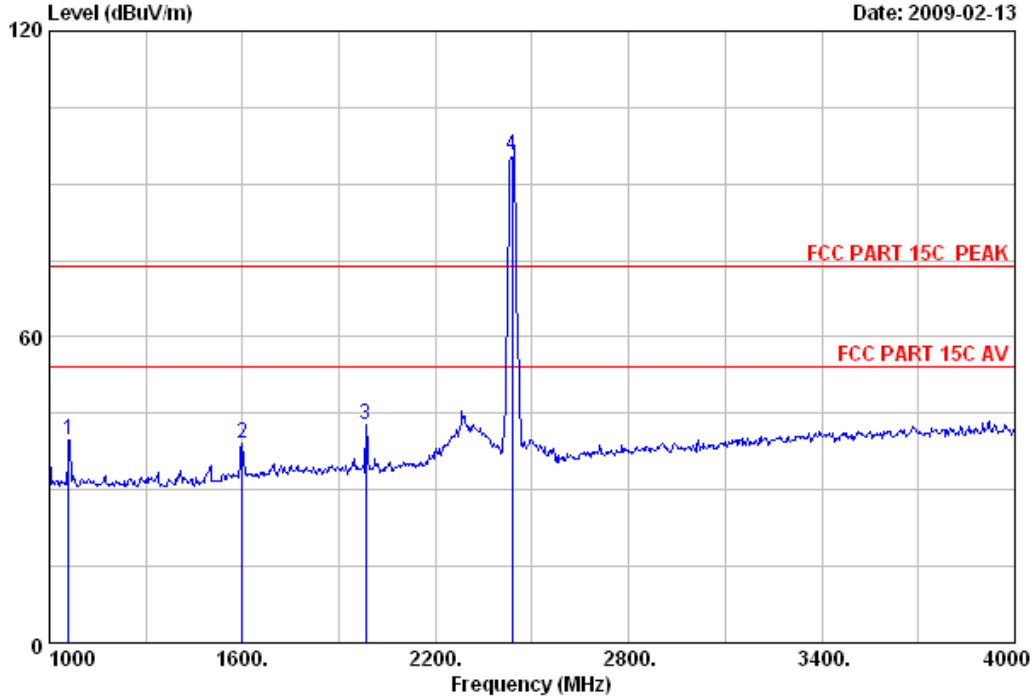
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 43
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 46.37 | 39.91 | 74.00 | 34.09 | Peak |
| 2 | 1600.000 | 26.30 | 5.46 | 35.62 | 43.02 | 39.16 | 74.00 | 34.84 | Peak |
| 3 | 1984.000 | 27.83 | 6.16 | 35.20 | 43.93 | 42.72 | 74.00 | 31.28 | Peak |
| 4 | 2437.000 | 28.53 | 6.80 | 35.11 | 95.37 | 95.59 | 74.00 | -21.59 | Peak |

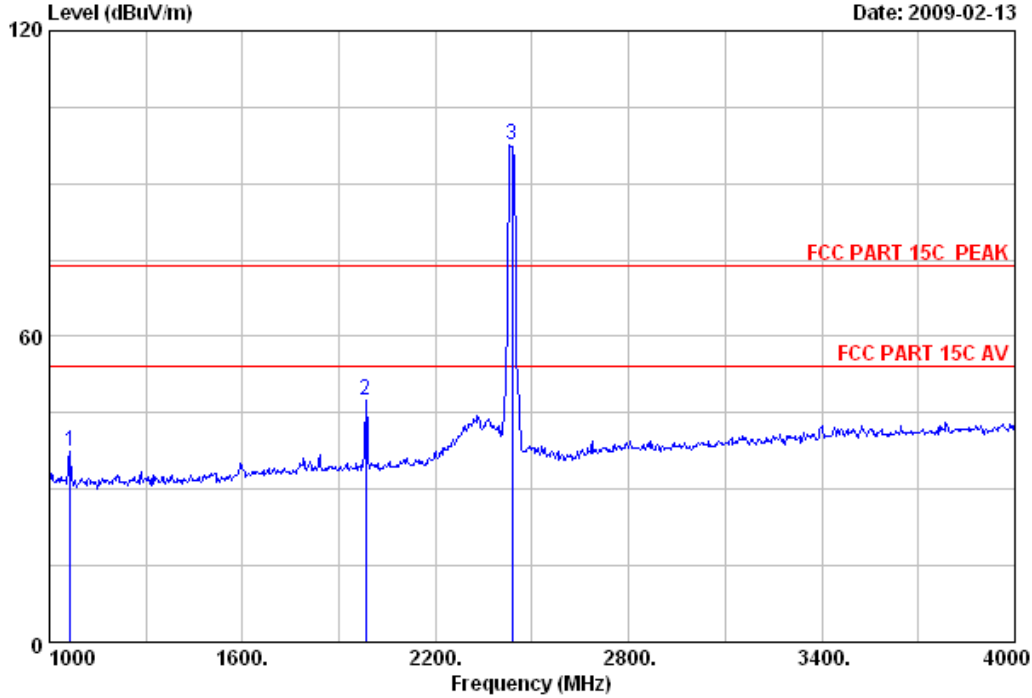
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 44
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH6 2437MHz
 M/N :

| | Ant. | Cable | Amp | Emission | | | | | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|----------------|--------|------|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark | |
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 43.82 | 37.42 | 74.00 | 36.58 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 48.83 | 47.62 | 74.00 | 26.38 | Peak |
| 3 | 2437.000 | 28.53 | 6.80 | 35.11 | 97.23 | 97.45 | 74.00 | -23.45 | Peak |

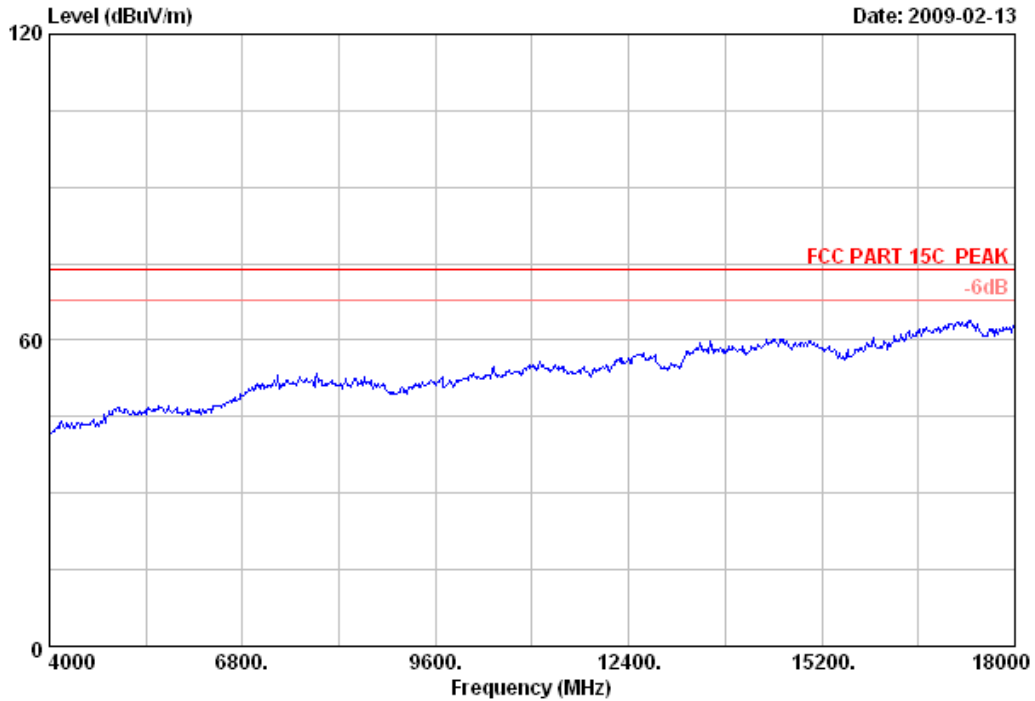
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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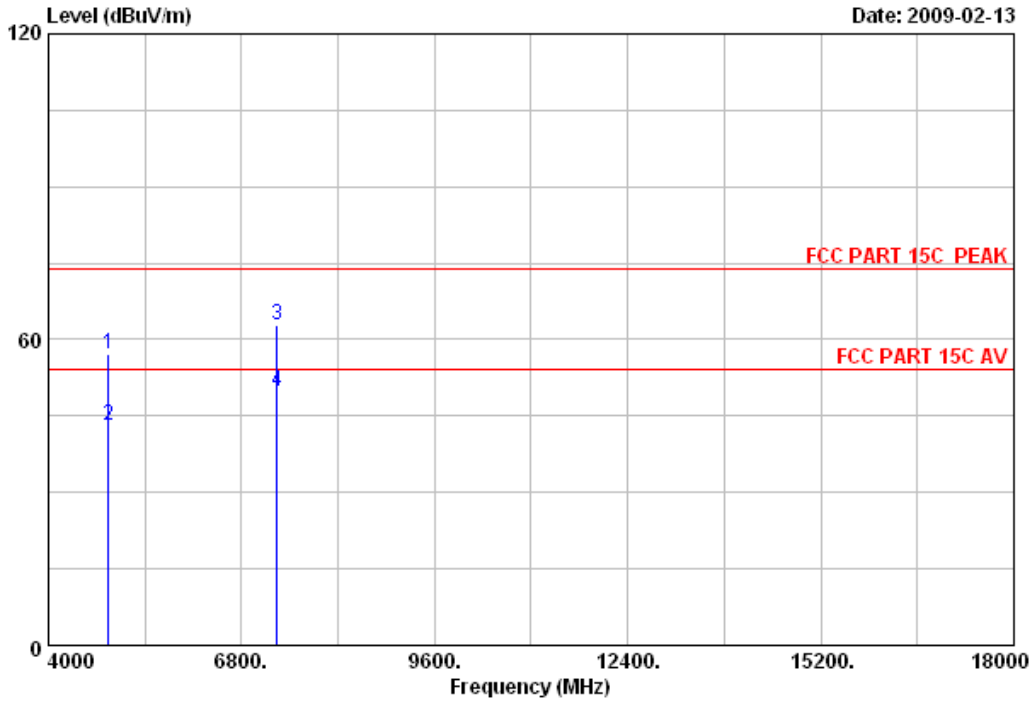


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 45 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT20 CH6 2437MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 46
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 46.34 | 57.10 | 74.00 | 16.90 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 32.29 | 43.05 | 54.00 | 10.95 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 46.57 | 62.83 | 74.00 | 11.17 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 33.70 | 49.96 | 54.00 | 4.04 | Average |

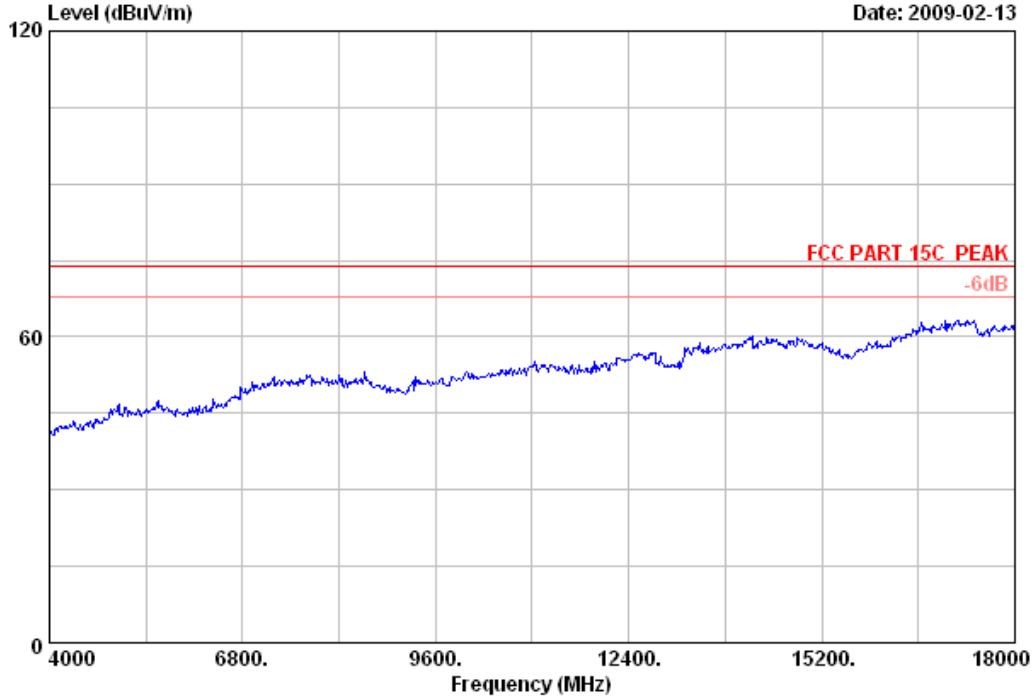
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 47 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

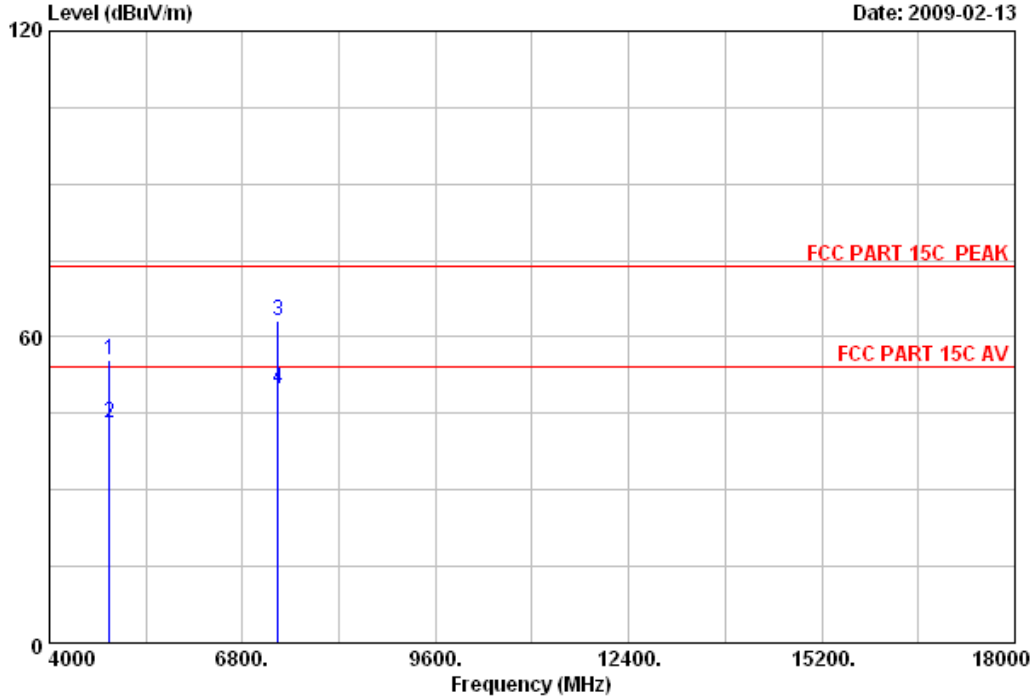


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 47 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT20 CH6 2437MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 48
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH6 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 44.67 | 55.43 | 74.00 | 18.57 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 32.23 | 42.99 | 54.00 | 11.01 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 46.90 | 63.16 | 74.00 | 10.84 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 33.56 | 49.82 | 54.00 | 4.18 | Average |

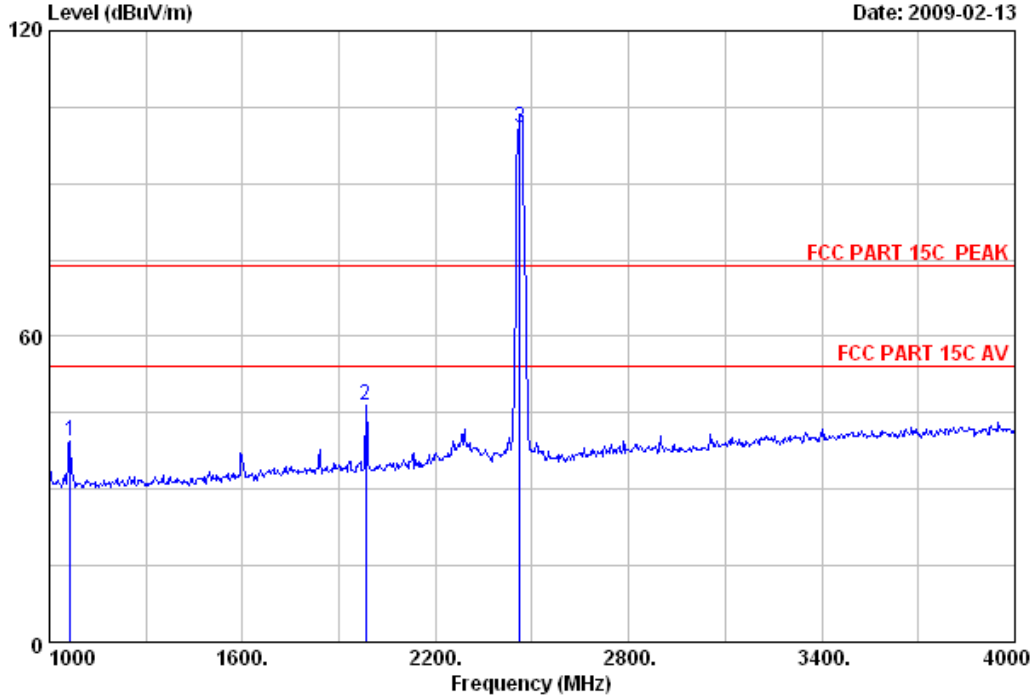
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 49
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 45.79 | 39.39 | 74.00 | 34.61 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 47.53 | 46.32 | 74.00 | 27.68 | Peak |
| 3 | 2462.000 | 28.55 | 6.84 | 35.11 | 100.72 | 101.00 | 74.00 | -27.00 | Peak |

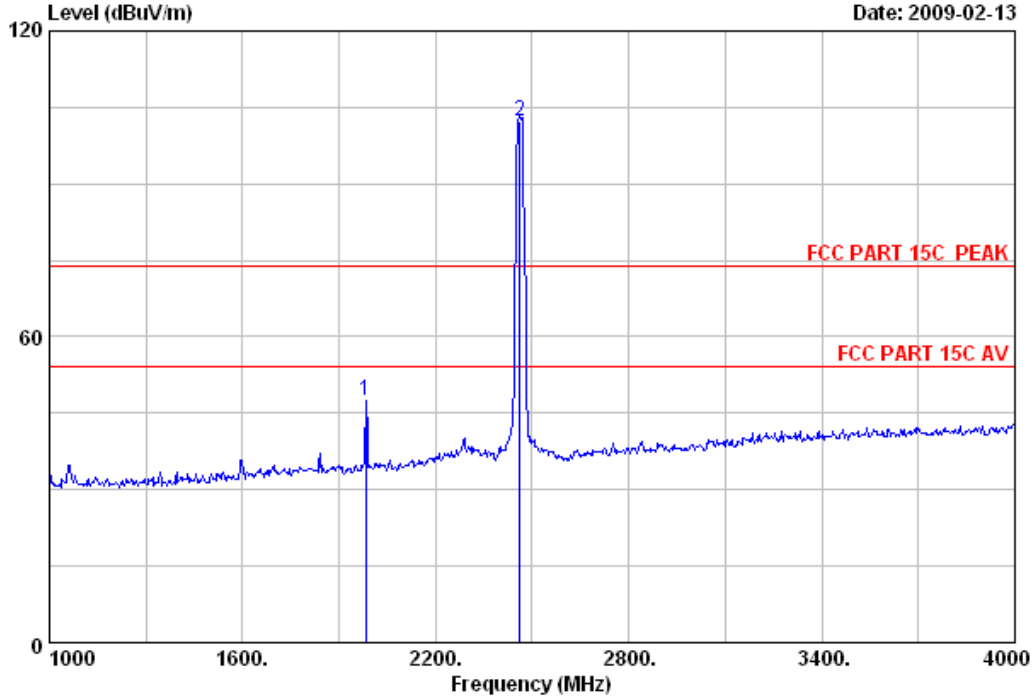
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 50
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 48.81 | 47.60 | 74.00 | 26.40 | Peak |
| 2 | 2462.000 | 28.55 | 6.84 | 35.11 | 101.96 | 102.24 | 74.00 | -28.24 | Peak |

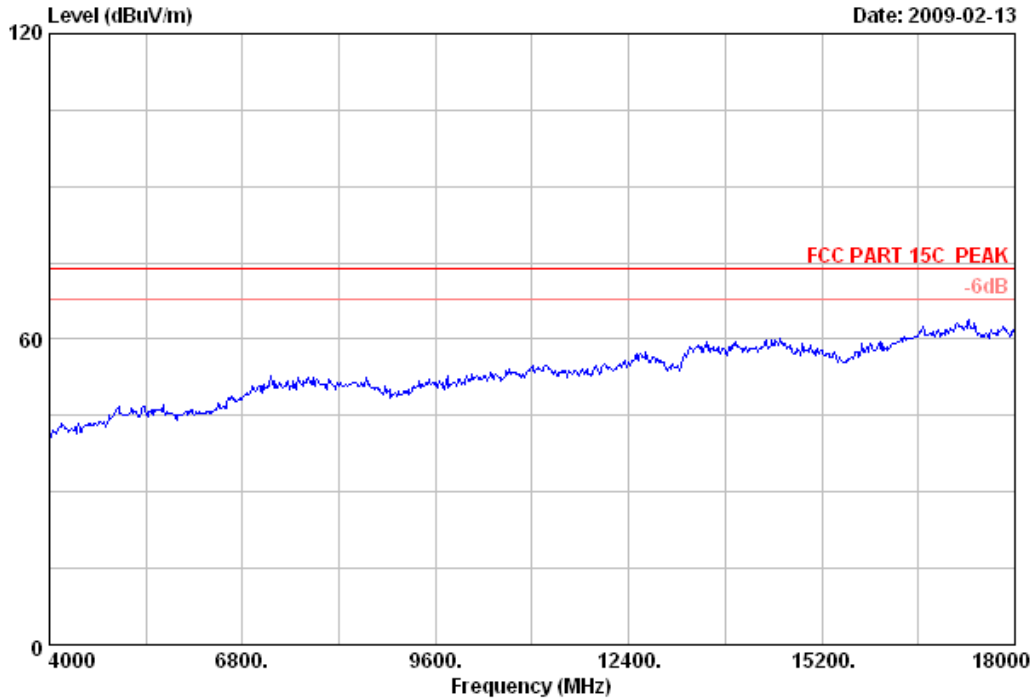
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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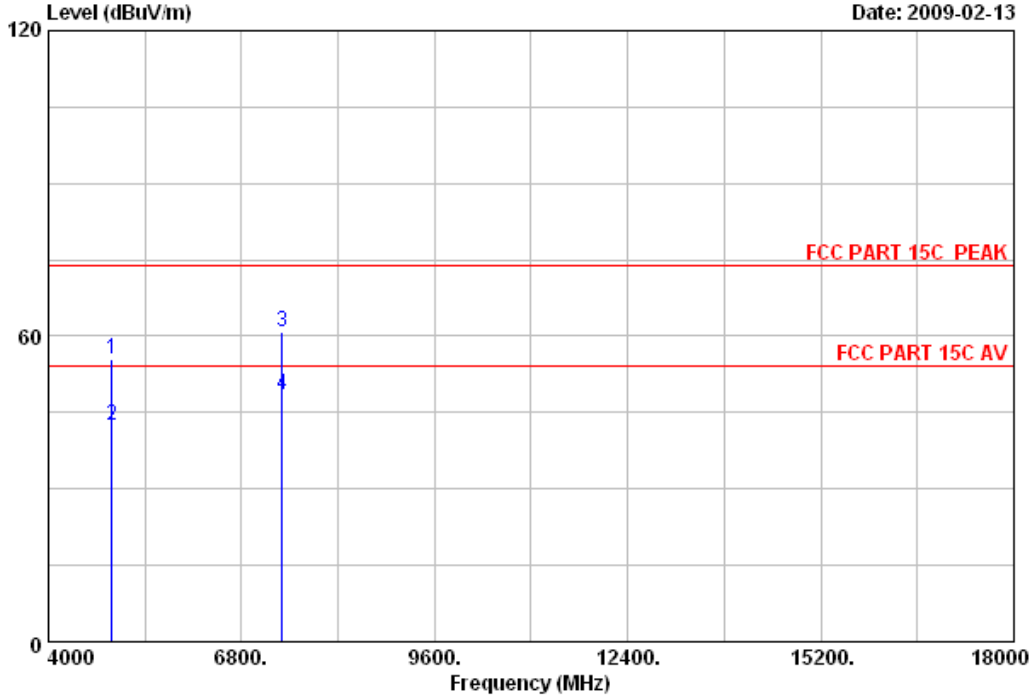


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 51 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT20 CH11 2462MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 52
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|----------------|------------------|--------------|----------------|-------------------|-------------------|----------|--------|---------|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | (dBuV/m) | (dB) | |
| 1 4924.000 | 35.09 | 10.58 | 34.57 | 44.36 | 55.46 | 74.00 | 18.54 | Peak |
| 2 4924.000 | 35.09 | 10.58 | 34.57 | 31.27 | 42.37 | 54.00 | 11.63 | Average |
| 3 7386.000 | 38.77 | 12.31 | 34.51 | 44.14 | 60.71 | 74.00 | 13.29 | Peak |
| 4 7386.000 | 38.77 | 12.31 | 34.51 | 31.99 | 48.56 | 54.00 | 5.44 | Average |

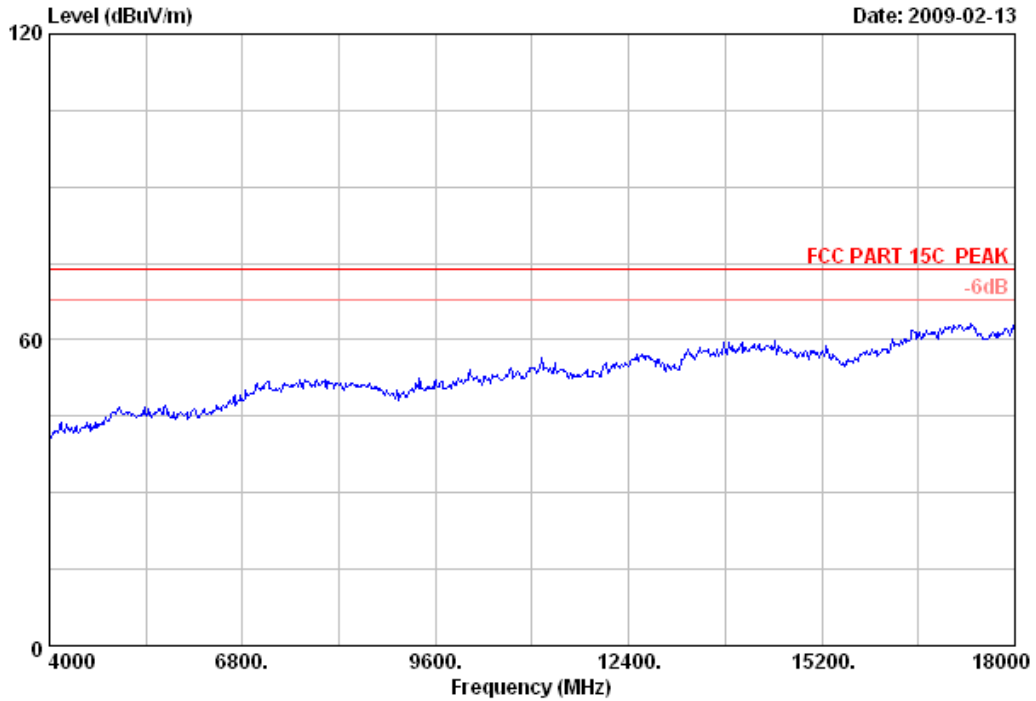
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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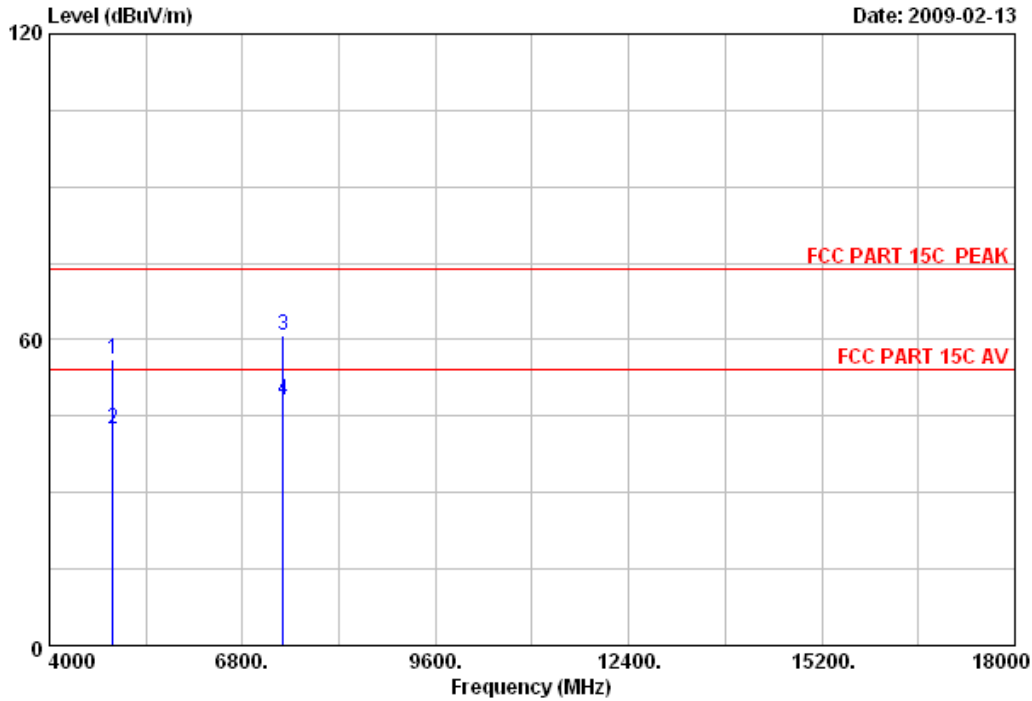


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 53 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT20 CH11 2462MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 54
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 35.09 | 10.58 | 34.57 | 45.01 | 56.11 | 74.00 | 17.89 | Peak |
| 2 | 4924.000 | 35.09 | 10.58 | 34.57 | 31.28 | 42.38 | 54.00 | 11.62 | Average |
| 3 | 7386.000 | 38.77 | 12.31 | 34.51 | 44.21 | 60.78 | 74.00 | 13.22 | Peak |
| 4 | 7386.000 | 38.77 | 12.31 | 34.51 | 31.53 | 48.10 | 54.00 | 5.90 | Average |

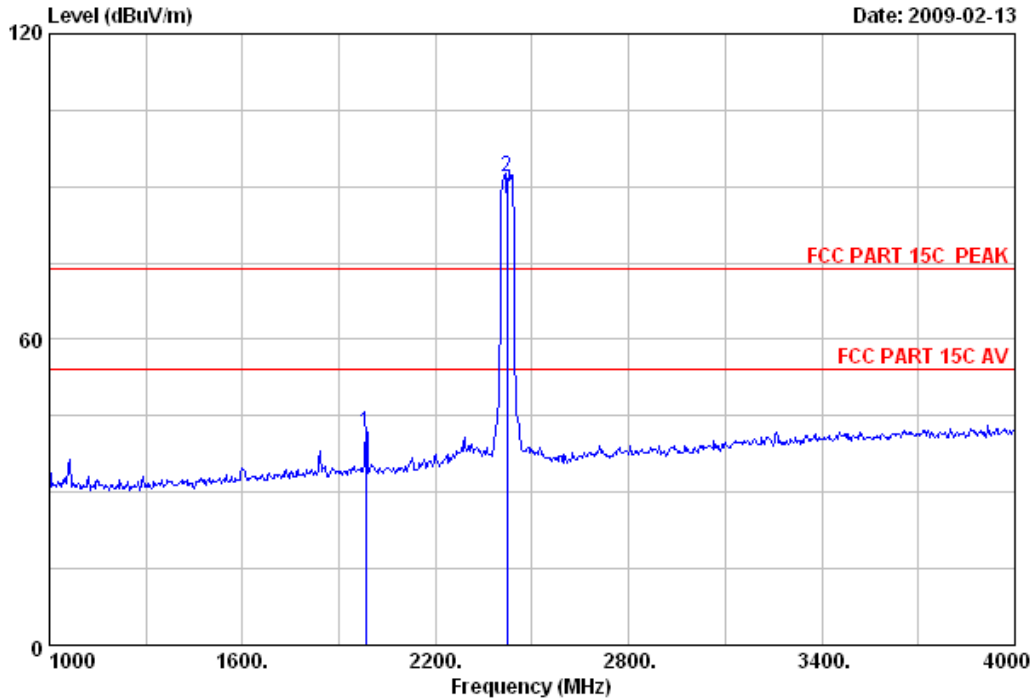
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 55
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1984.000 | 27.83 | 6.16 | 35.20 | 43.02 | 41.81 | 74.00 | 32.19 | Peak |
| 2 | 2422.000 | 28.50 | 6.77 | 35.11 | 91.92 | 92.08 | 74.00 | -18.08 | Peak |

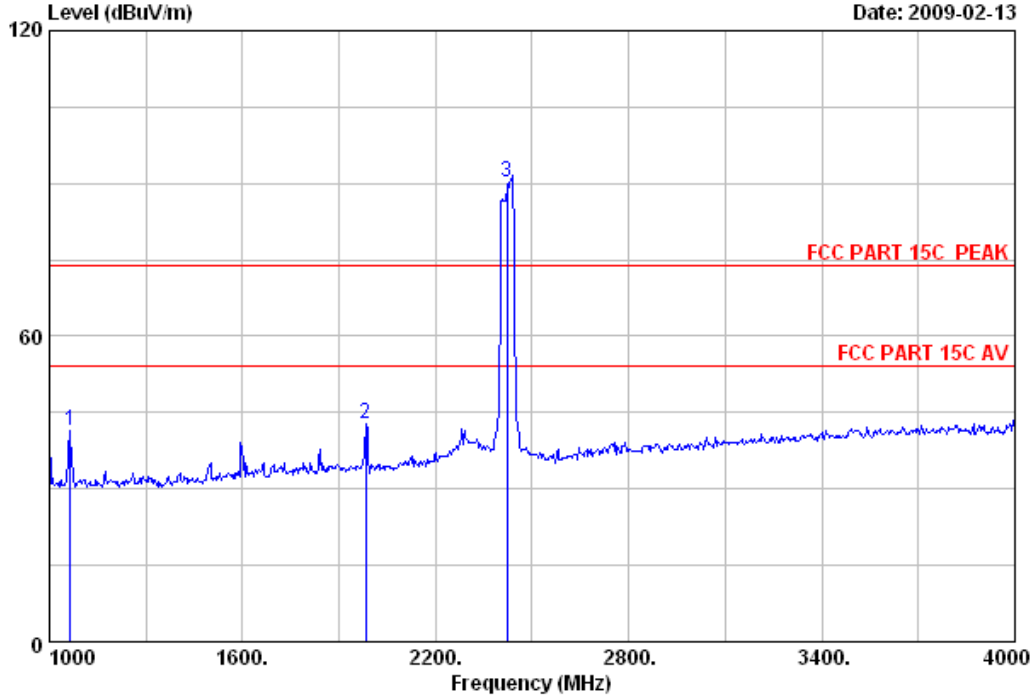
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 56
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 47.79 | 41.39 | 74.00 | 32.61 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 44.08 | 42.87 | 74.00 | 31.13 | Peak |
| 3 | 2422.000 | 28.50 | 6.77 | 35.11 | 89.97 | 90.13 | 74.00 | -16.13 | Peak |

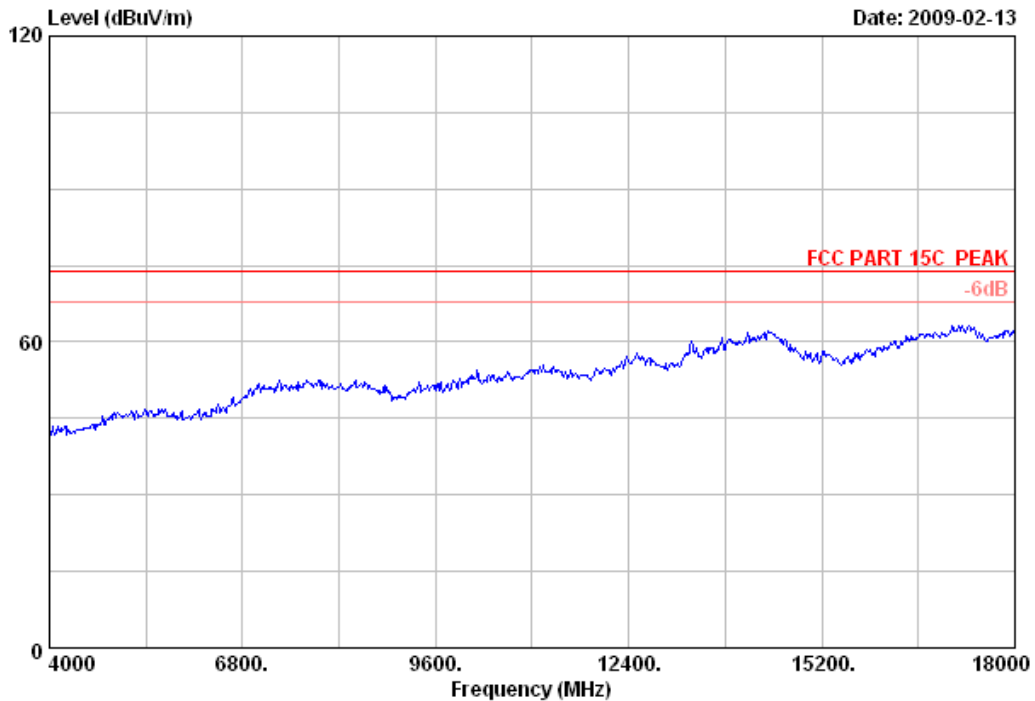
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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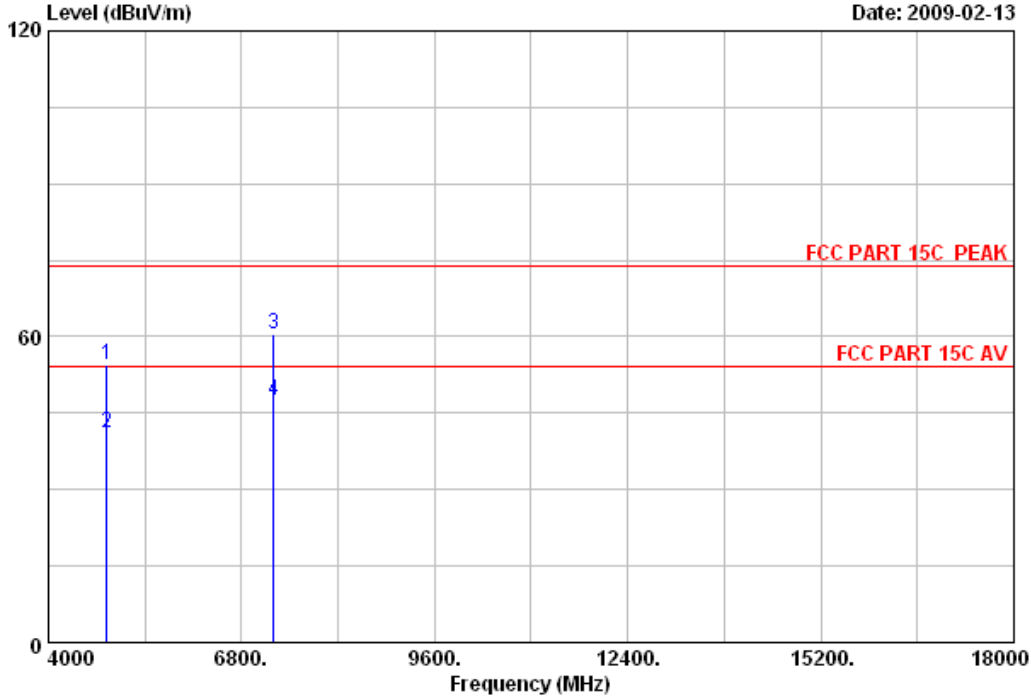


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 57 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT40 CH1 2422MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 58
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4844.000 | 34.57 | 10.56 | 34.59 | 43.93 | 54.47 | 74.00 | 19.53 | Peak |
| 2 | 4844.000 | 34.57 | 10.56 | 34.59 | 30.69 | 41.23 | 54.00 | 12.77 | Average |
| 3 | 7266.000 | 38.51 | 12.17 | 34.49 | 44.47 | 60.66 | 74.00 | 13.34 | Peak |
| 4 | 7266.000 | 38.51 | 12.17 | 34.49 | 31.34 | 47.53 | 54.00 | 6.47 | Average |

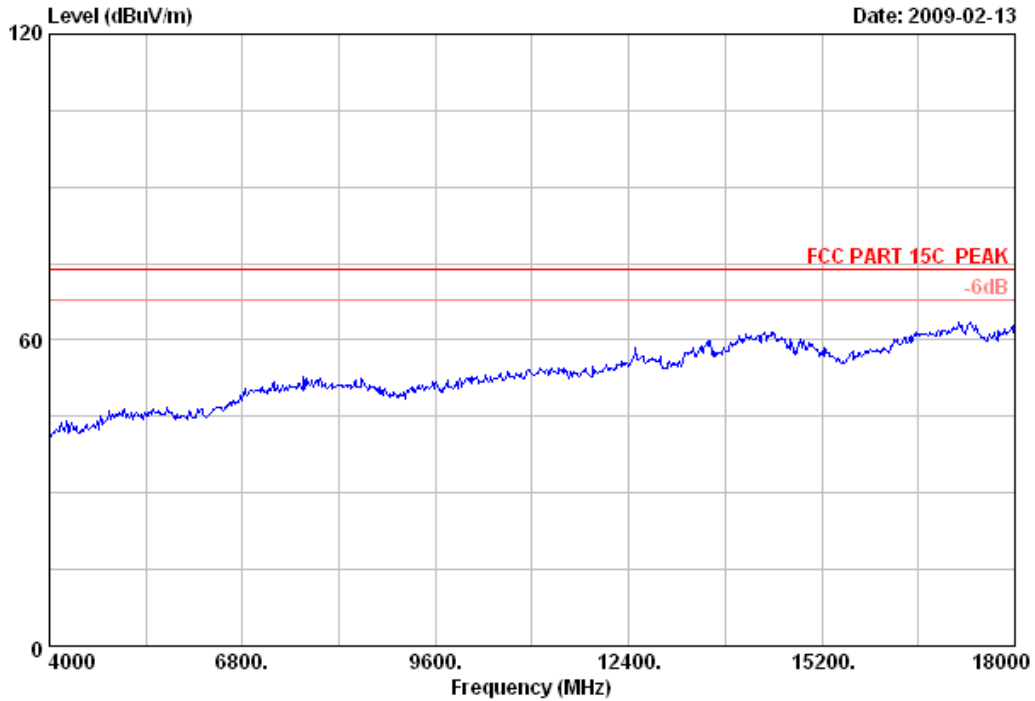
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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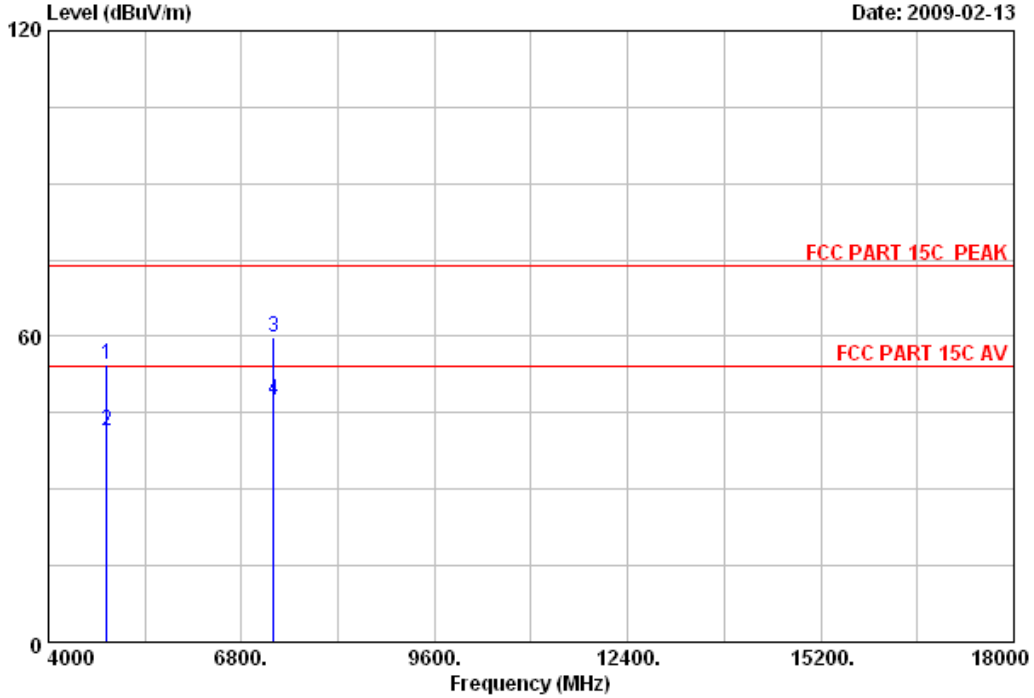


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 59 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT40 CH1 2422MHz | | |
| M/N | : | | |



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Site no. : 3# Chamber Data no. : 60
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4844.000 | 34.57 | 10.56 | 34.59 | 43.82 | 54.36 | 74.00 | 19.64 | Peak |
| 2 | 4844.000 | 34.57 | 10.56 | 34.59 | 30.76 | 41.30 | 54.00 | 12.70 | Average |
| 3 | 7266.000 | 38.51 | 12.17 | 34.49 | 43.77 | 59.96 | 74.00 | 14.04 | Peak |
| 4 | 7266.000 | 38.51 | 12.17 | 34.49 | 31.31 | 47.50 | 54.00 | 6.50 | Average |

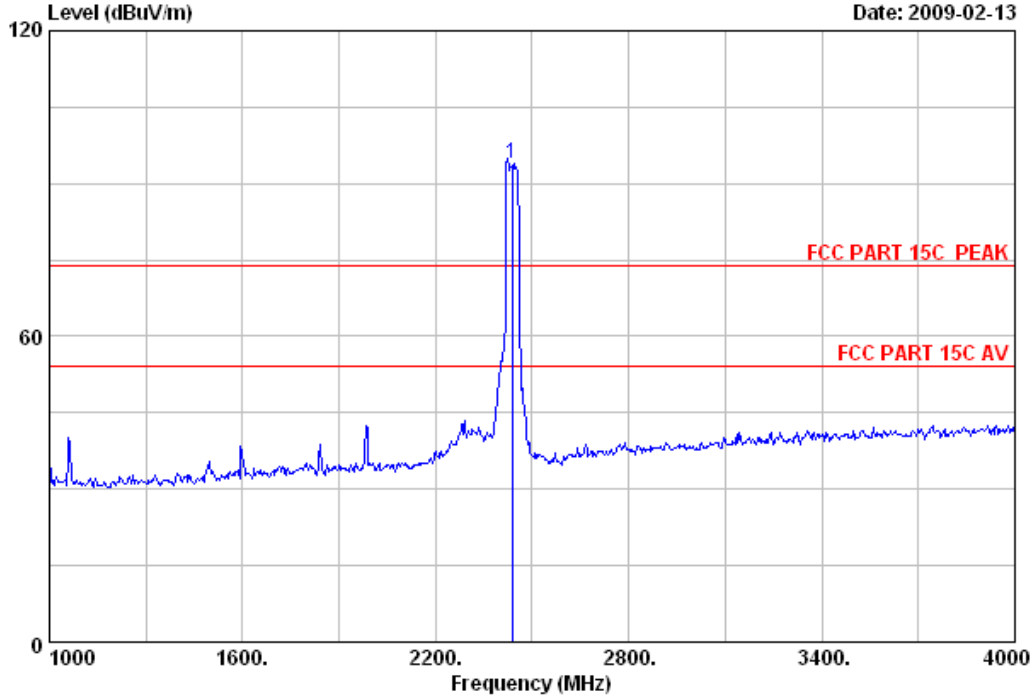
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 61 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 61
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH4 2437MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | Margin | Remark |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2437.000 | 28.53 | 6.80 | 35.11 | 93.87 | 94.09 | 74.00 | -20.09 | Peak |

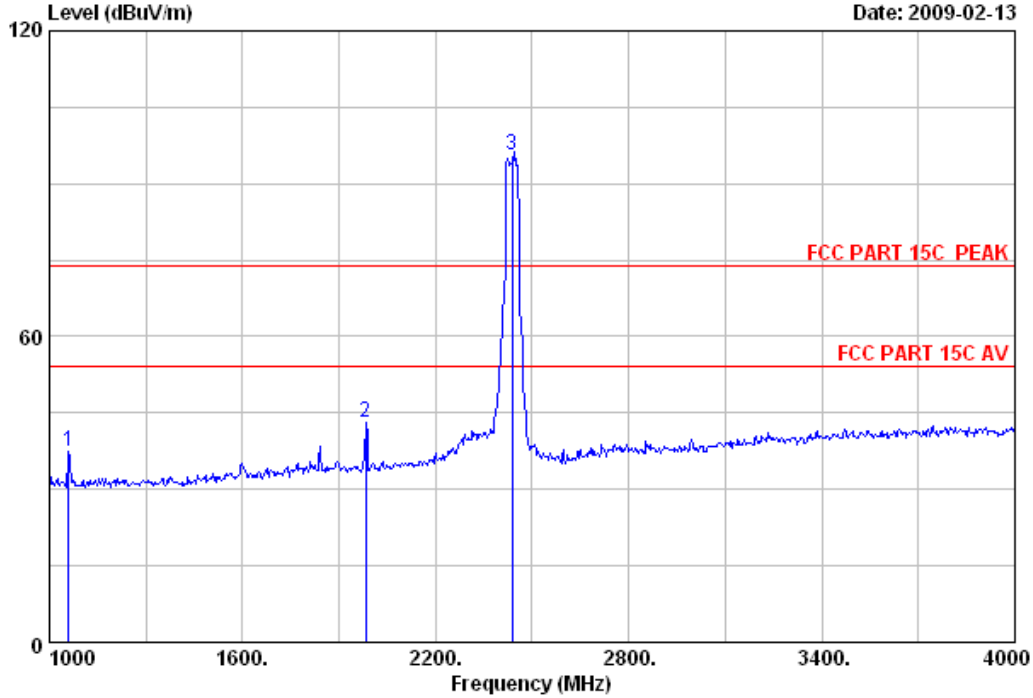
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 62 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 62
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH4 2437MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 43.87 | 37.41 | 74.00 | 36.59 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 44.45 | 43.24 | 74.00 | 30.76 | Peak |
| 3 | 2437.000 | 28.53 | 6.80 | 35.11 | 95.25 | 95.47 | 74.00 | -21.47 | Peak |

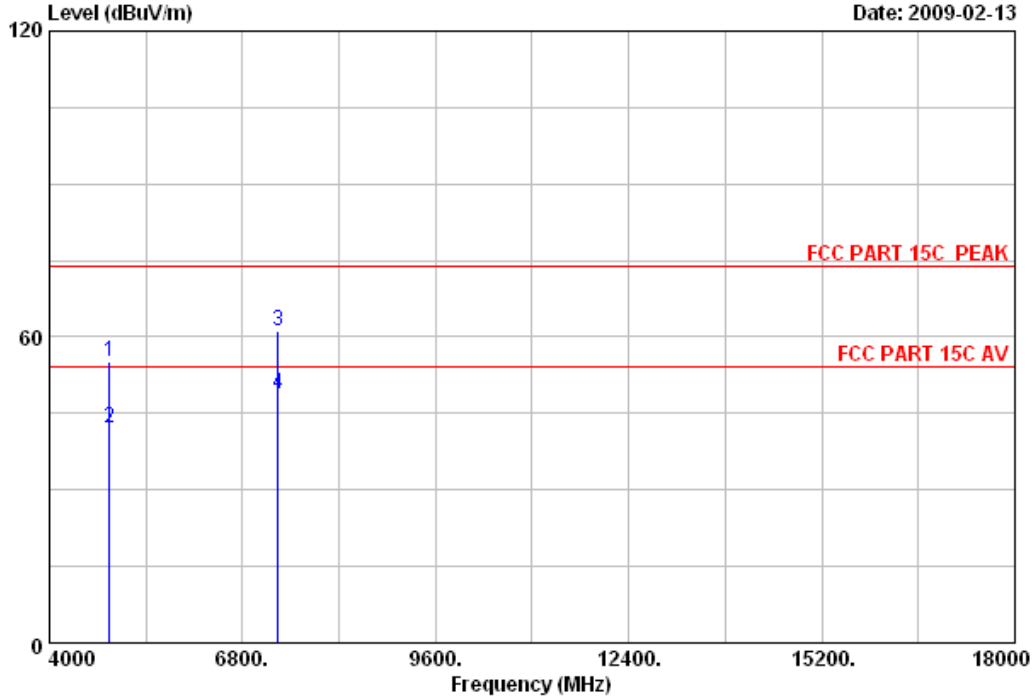
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 63 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 63
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH4 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 44.34 | 55.10 | 74.00 | 18.90 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 31.21 | 41.97 | 54.00 | 12.03 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 44.81 | 61.07 | 74.00 | 12.93 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 32.47 | 48.73 | 54.00 | 5.27 | Average |

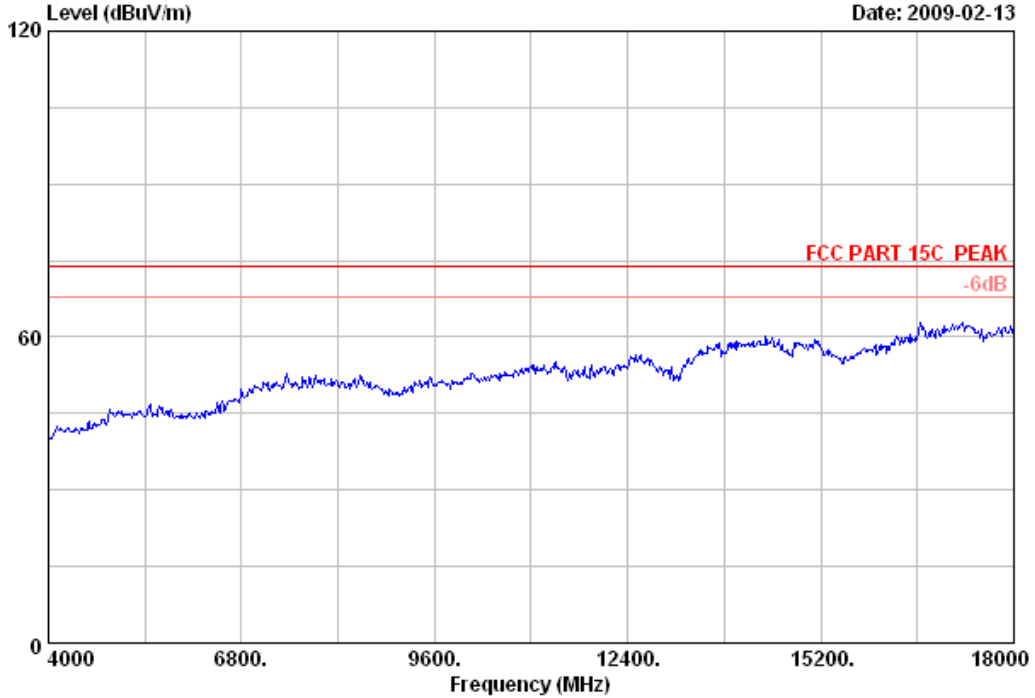
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 64 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

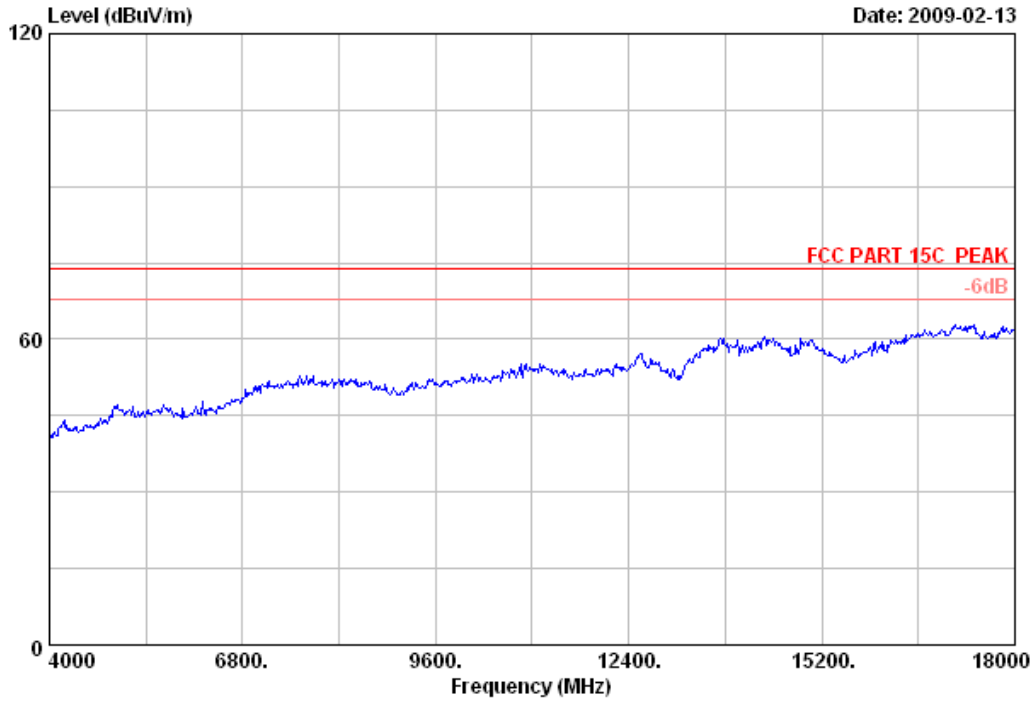


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 64 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT40 CH4 2437MHz | | |
| M/N | : | | |



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Data: 65 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)

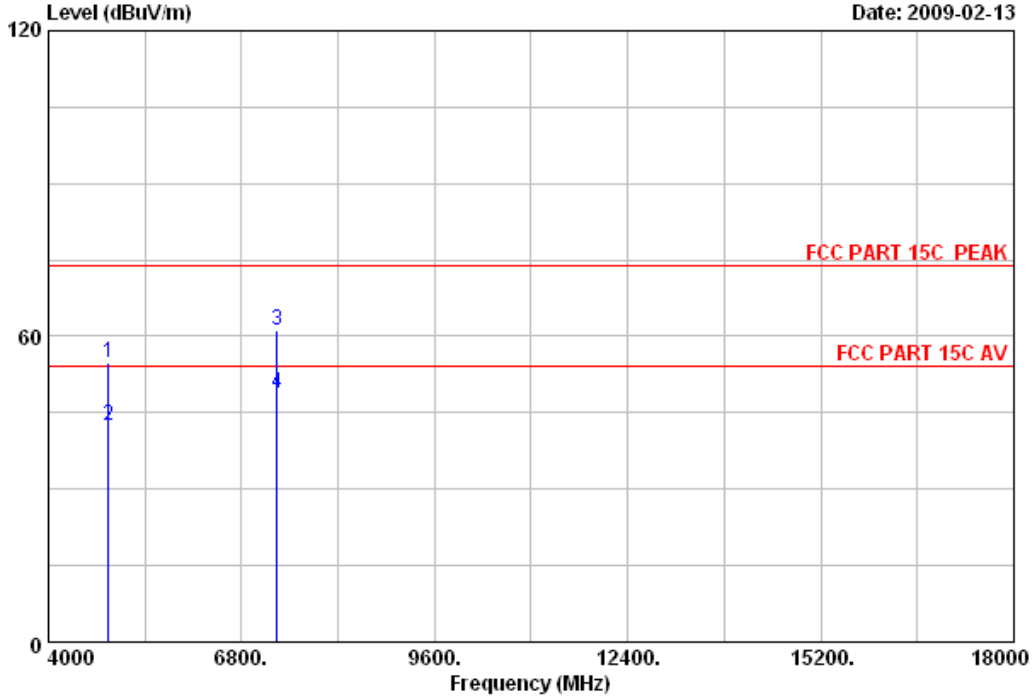


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 65 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT40 CH4 2437MHz | | |
| M/N | : | | |



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Data: 66 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 66
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH4 2437MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.78 | 10.56 | 34.58 | 44.07 | 54.83 | 74.00 | 19.17 | Peak |
| 2 | 4874.000 | 34.78 | 10.56 | 34.58 | 31.55 | 42.31 | 54.00 | 11.69 | Average |
| 3 | 7311.000 | 38.58 | 12.17 | 34.49 | 44.89 | 61.15 | 74.00 | 12.85 | Peak |
| 4 | 7311.000 | 38.58 | 12.17 | 34.49 | 32.43 | 48.69 | 54.00 | 5.31 | Average |

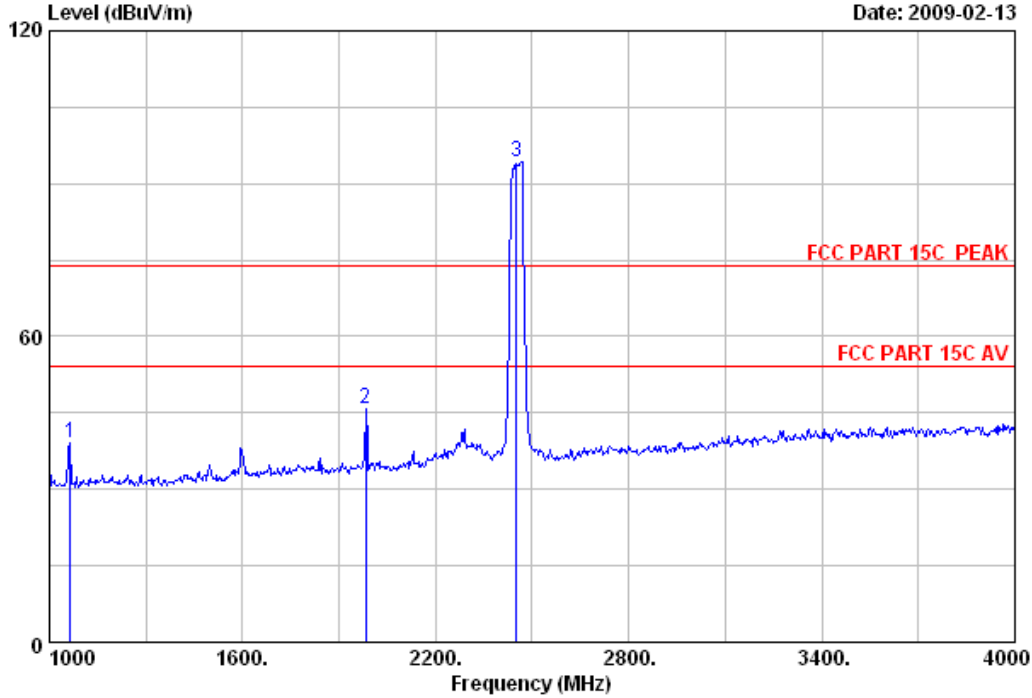
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 67 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 67
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 1066.000 | 25.30 | 4.52 | 36.22 | 45.39 | 38.99 | 74.00 | 35.01 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 47.10 | 45.89 | 74.00 | 28.11 | Peak |
| 3 | 2452.000 | 28.53 | 6.84 | 35.11 | 93.91 | 94.17 | 74.00 | -20.17 | Peak |

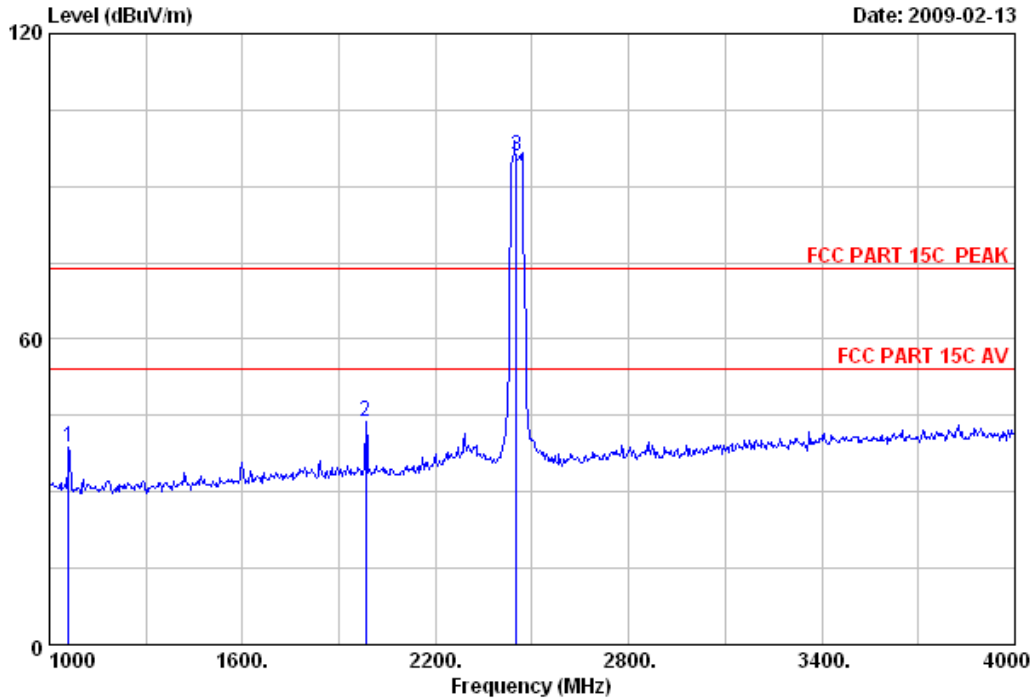
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 68
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Ant. | Cable | Amp | Emission | | | Margin | Remark | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|--------------------|--------|--------|------|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | (dB) | | |
| 1 | 1060.000 | 25.30 | 4.48 | 36.24 | 45.11 | 38.65 | 74.00 | 35.35 | Peak |
| 2 | 1984.000 | 27.83 | 6.16 | 35.20 | 44.95 | 43.74 | 74.00 | 30.26 | Peak |
| 3 | 2452.000 | 28.53 | 6.84 | 35.11 | 95.58 | 95.84 | 74.00 | -21.84 | Peak |

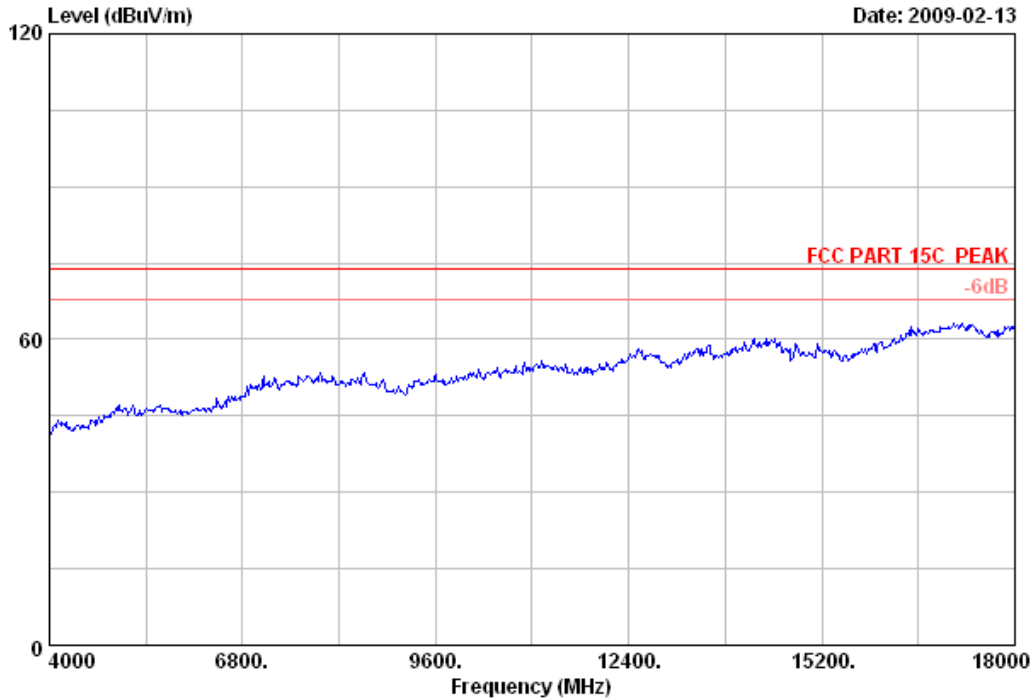
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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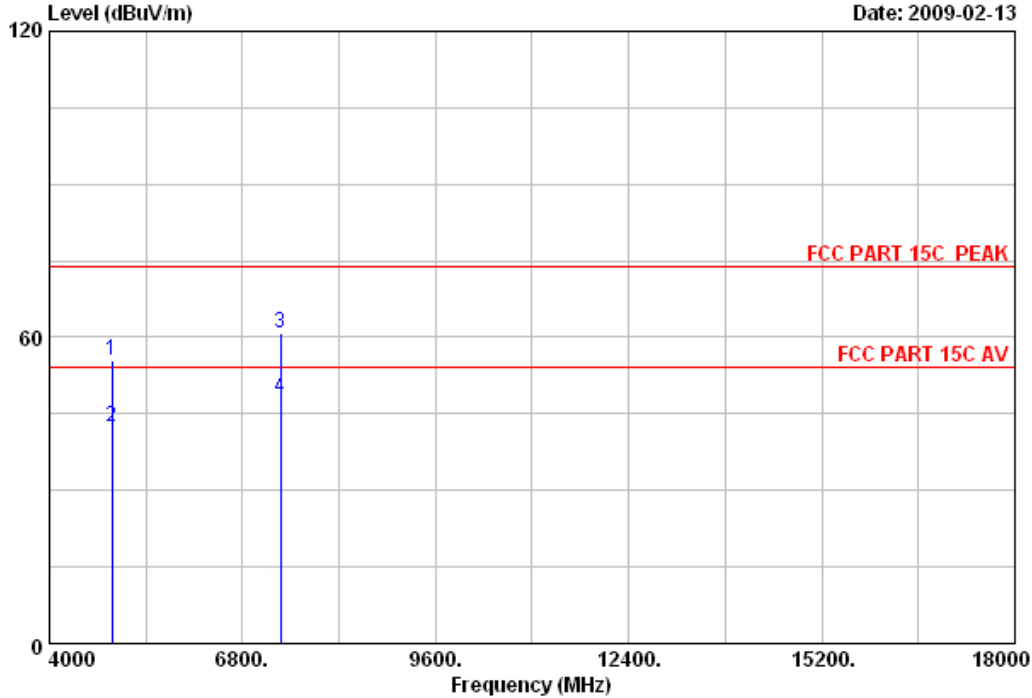


| | | | |
|--------------|---|-----------|------------|
| Site no. | : 3# Chamber | Data no. | : 69 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT40 CH7 2452MHz | | |
| M/N | : | | |



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Data: 70 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 70
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4904.000 | 34.98 | 10.58 | 34.58 | 44.62 | 55.60 | 74.00 | 18.40 | Peak |
| 2 | 4904.000 | 34.98 | 10.58 | 34.58 | 31.63 | 42.61 | 54.00 | 11.39 | Average |
| 3 | 7356.000 | 38.70 | 12.27 | 34.50 | 44.47 | 60.94 | 74.00 | 13.06 | Peak |
| 4 | 7356.000 | 38.70 | 12.27 | 34.50 | 31.78 | 48.25 | 54.00 | 5.75 | Average |

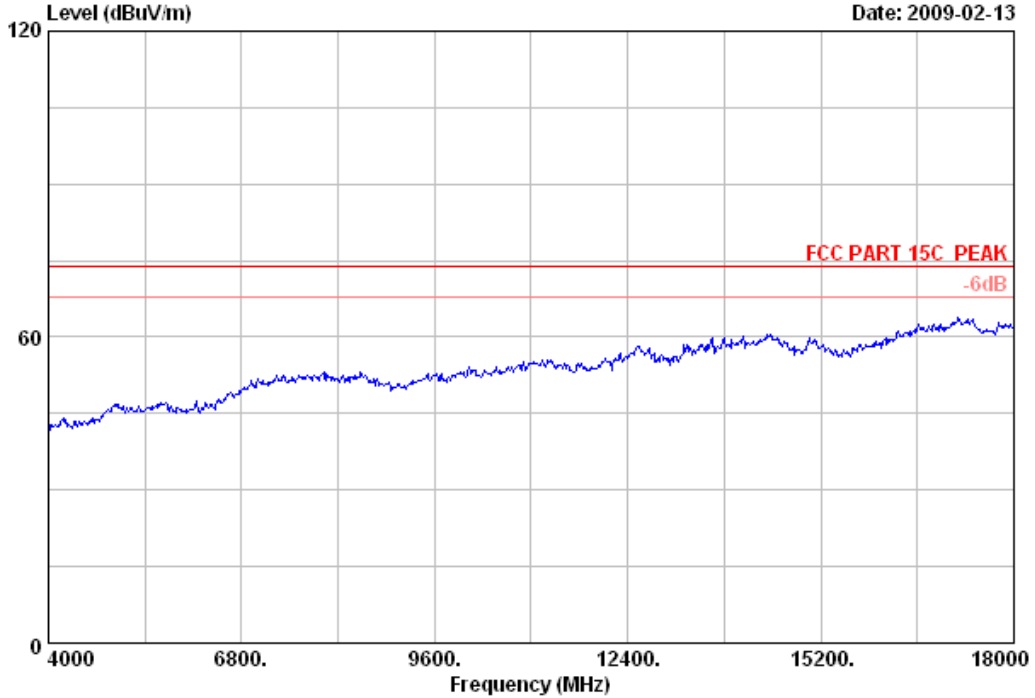
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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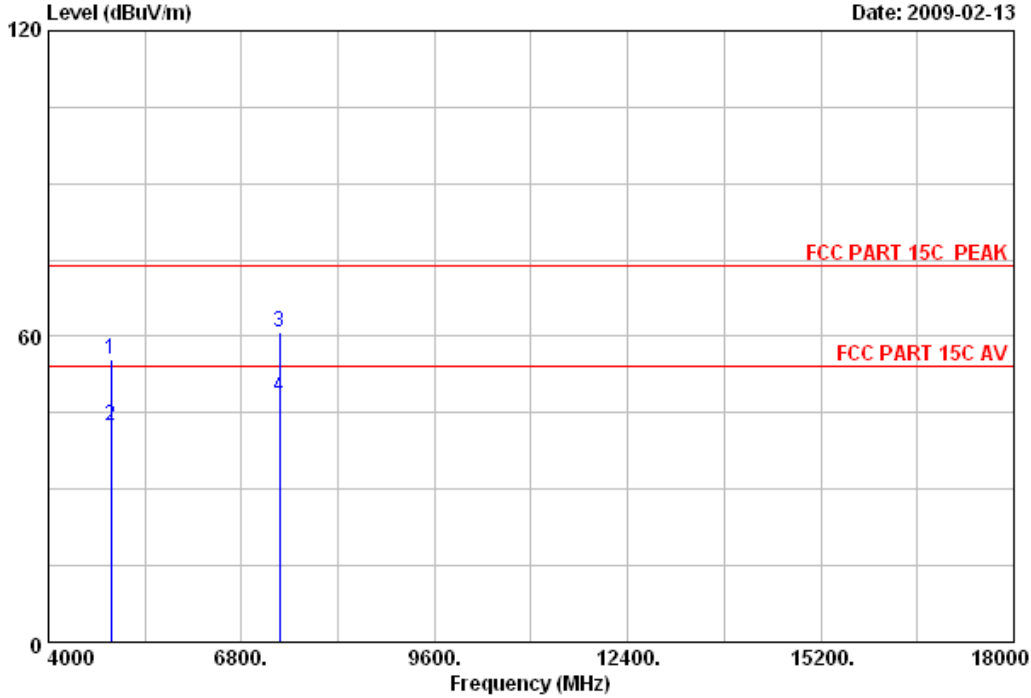


| | | | |
|--------------|---|-----------|--------------|
| Site no. | : 3# Chamber | Data no. | : 71 |
| Dis. / Ant. | : 3m 3115 | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul |
| EUT | : Wireless N Cardbus Adapter M/N:M-WN910N | | |
| Power Rating | : DC 3.3V From PC input AC 120V/60Hz | | |
| Test mode | : IEEE802.11nHT40 CH7 2452MHz | | |
| M/N | : | | |



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Data: 72 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 72
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4904.000 | 34.98 | 10.58 | 34.58 | 44.62 | 55.60 | 74.00 | 18.40 | Peak |
| 2 | 4904.000 | 34.98 | 10.58 | 34.58 | 31.58 | 42.56 | 54.00 | 11.44 | Average |
| 3 | 7356.000 | 38.70 | 12.27 | 34.50 | 44.47 | 60.94 | 74.00 | 13.06 | Peak |
| 4 | 7356.000 | 38.70 | 12.27 | 34.50 | 31.70 | 48.17 | 54.00 | 5.83 | Average |

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------|------------|------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May,10, 08 | 1 Year |
| 2 | RF Cable | Hubersuhner | SUCOFLEX | 182768/4 | May,28, 08 | 1Year |

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz.

5.4. Test result

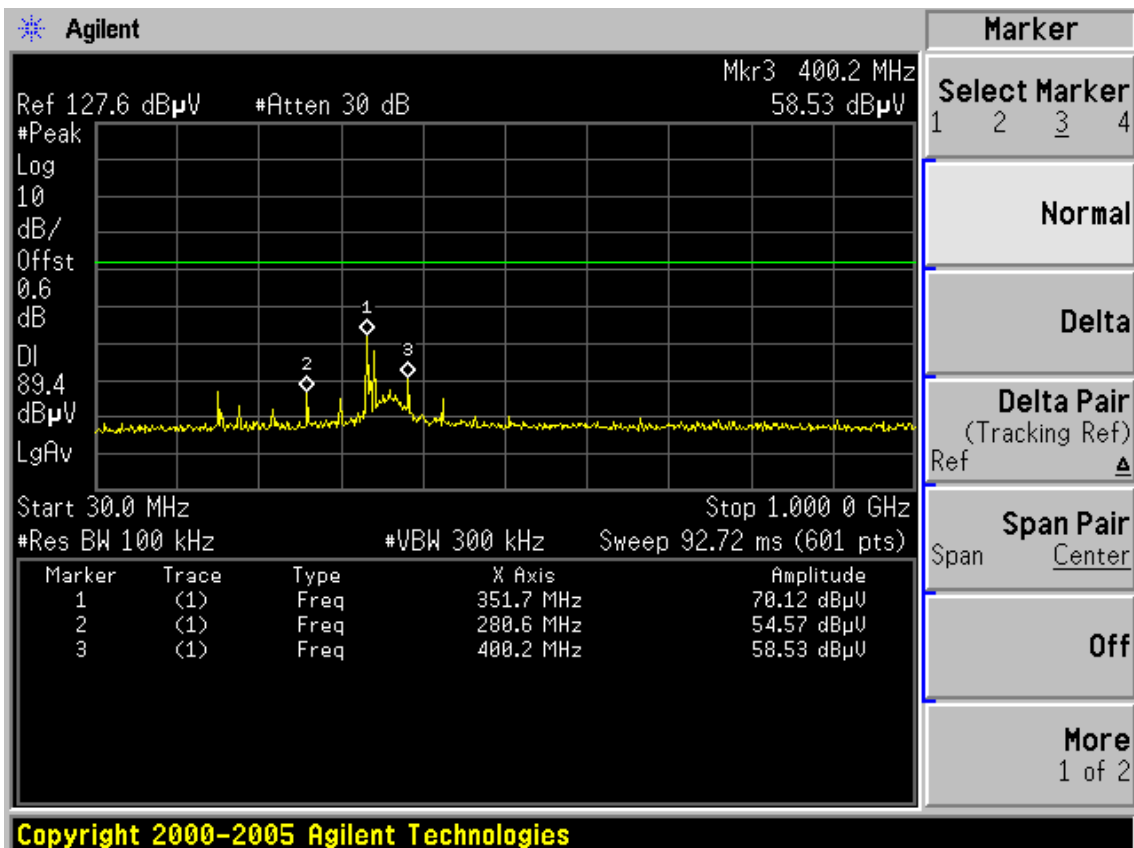
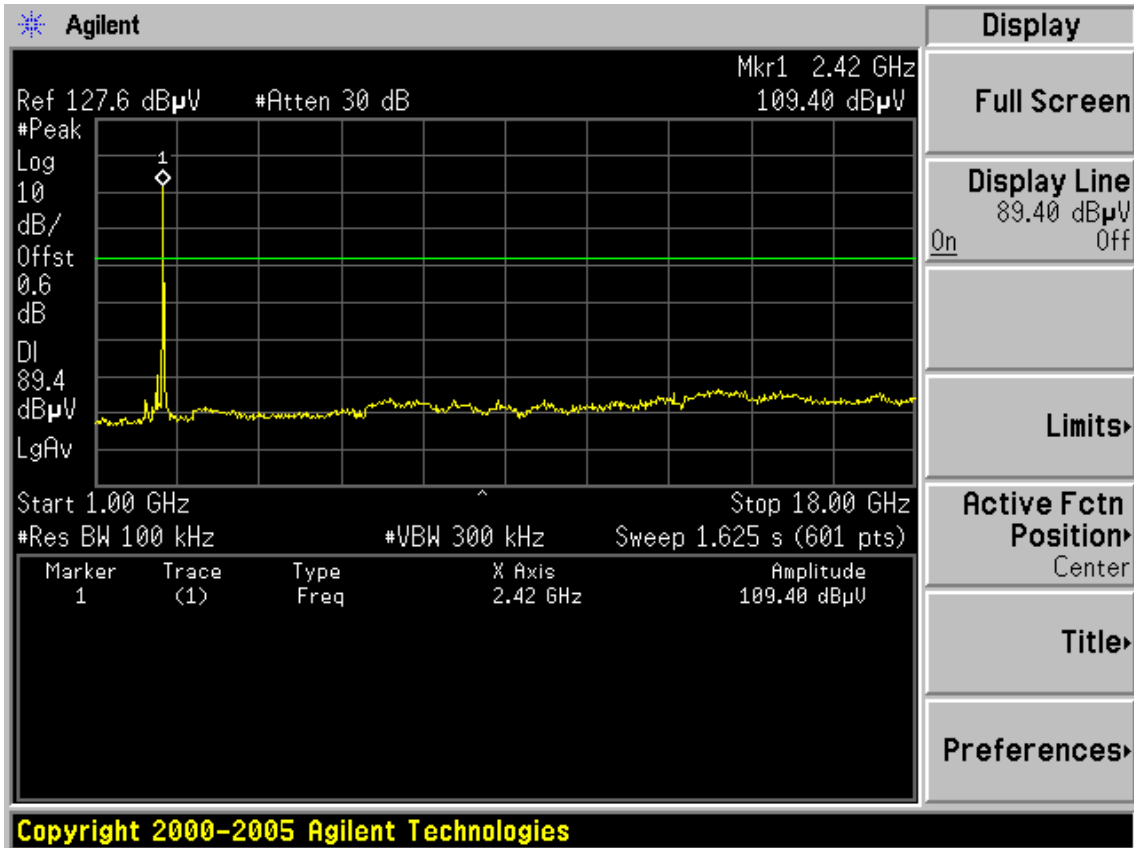
PASS (The testing data was attached in the next pages.)

Conducted emission test data:

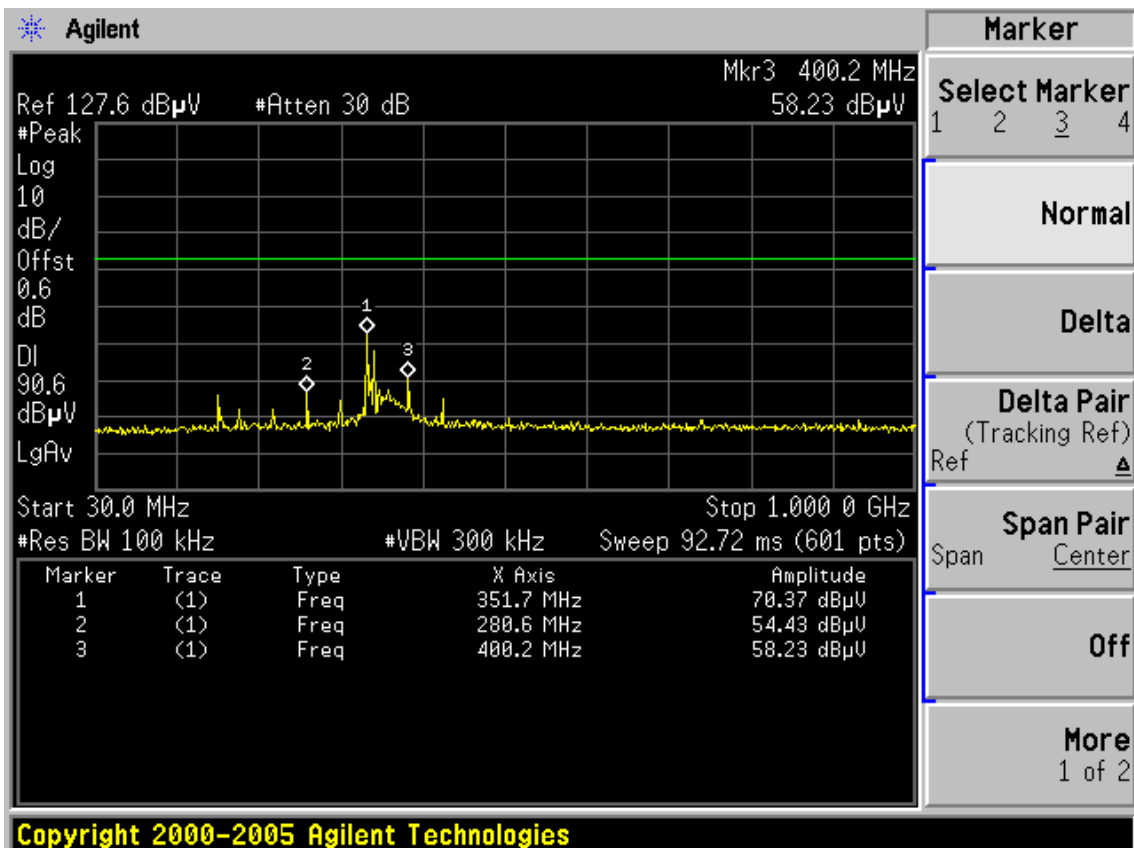
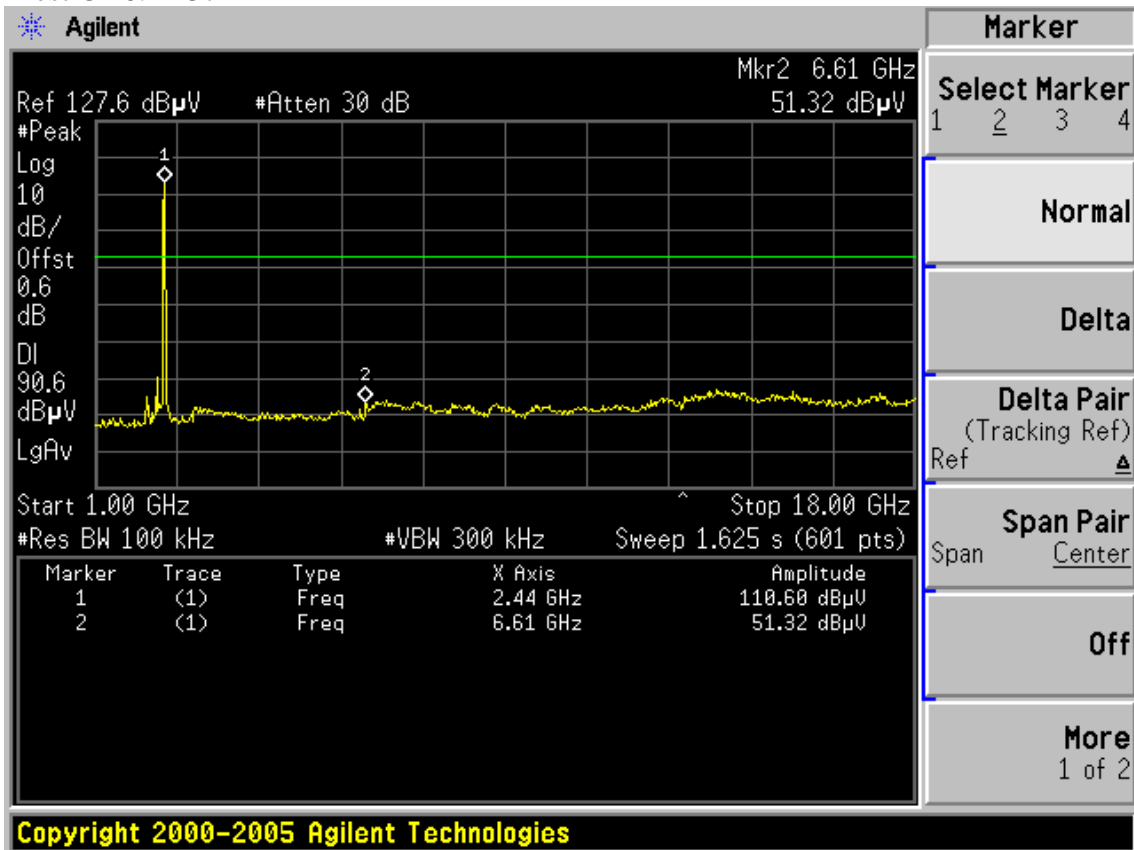
Chain 1:

Test Mode: IEEE 802.11b TX

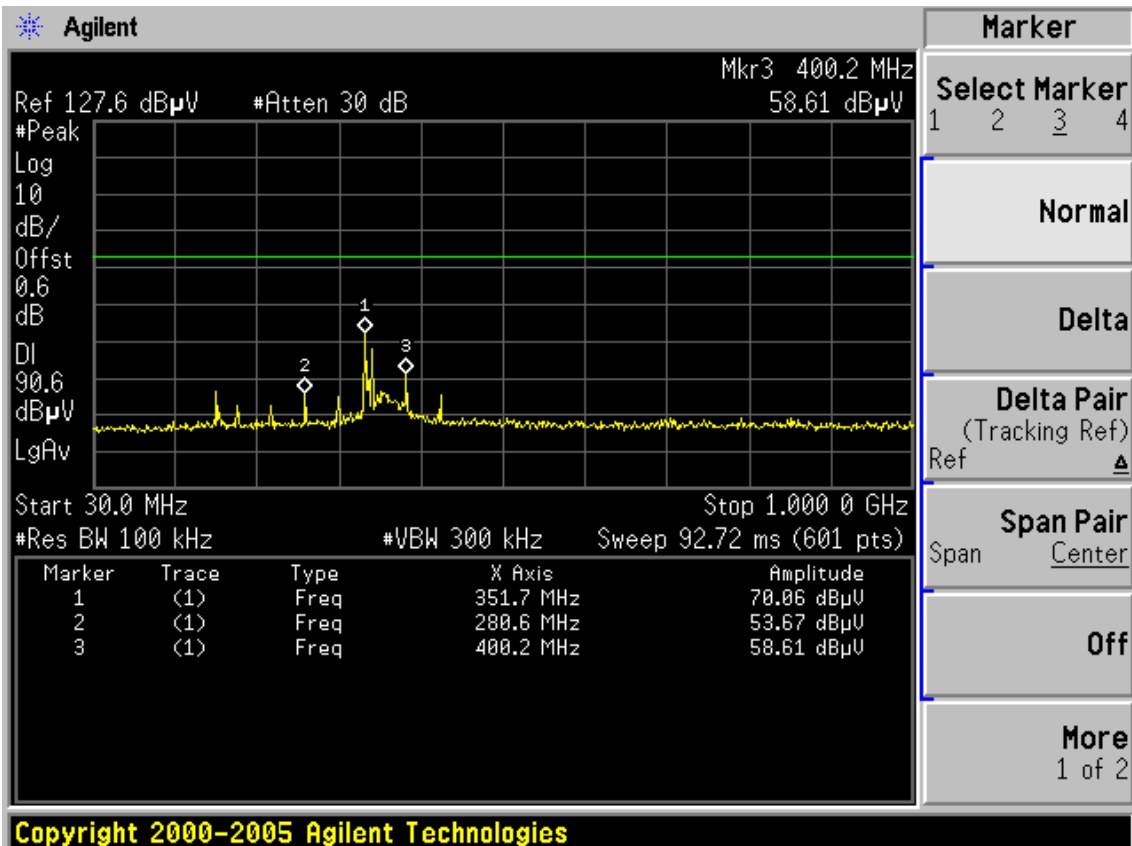
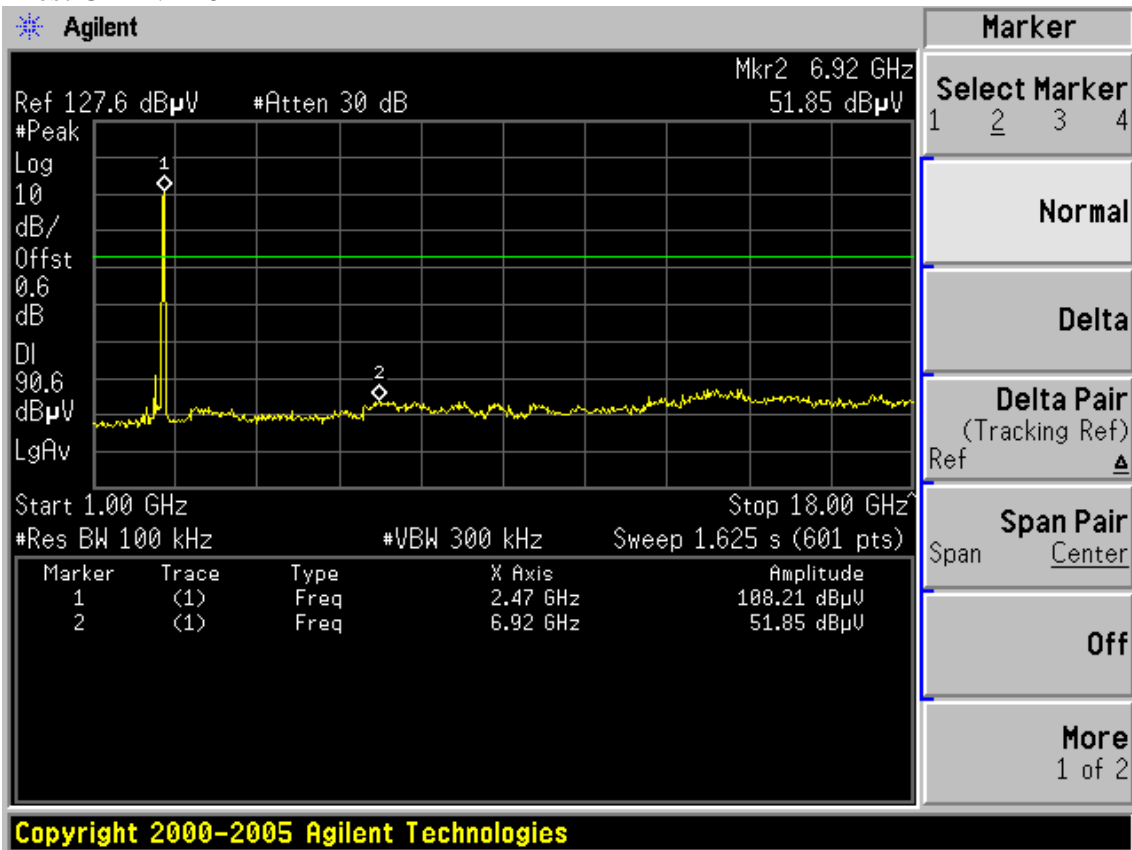
Test CH1: 2412MHz



Test CH6: 2437MHz

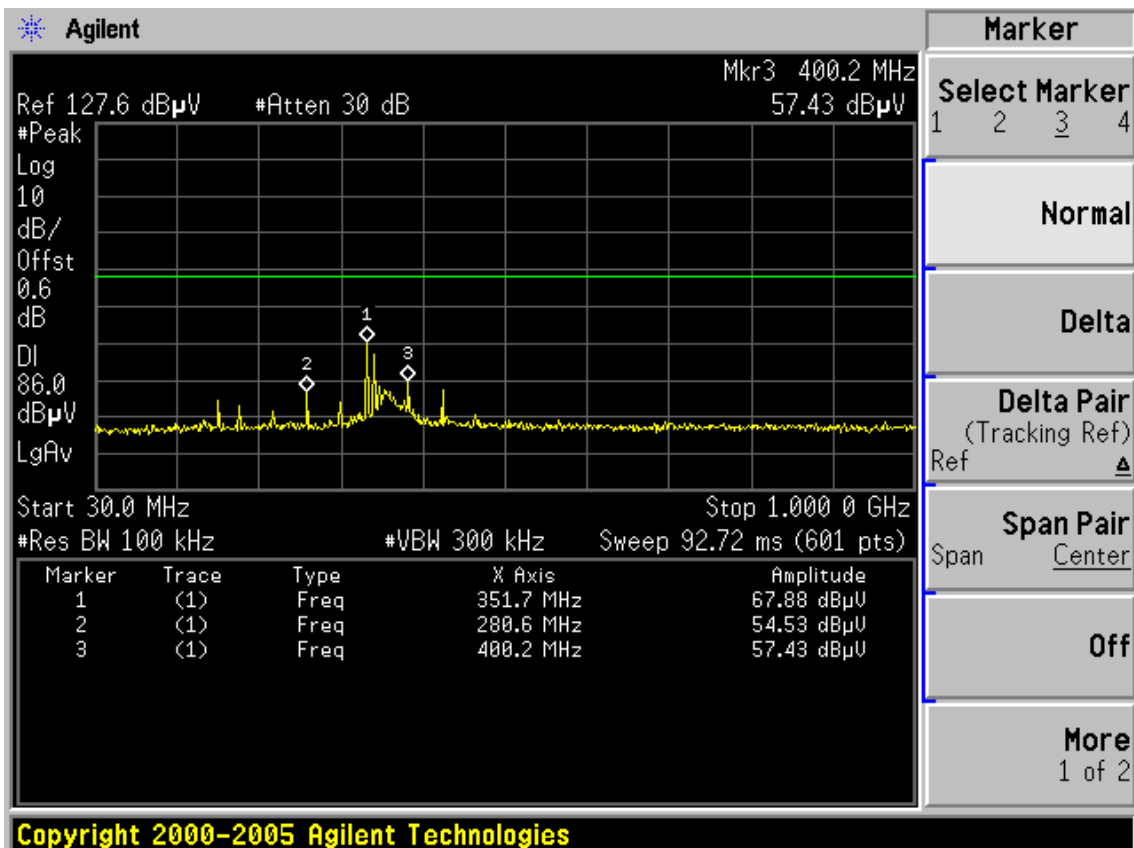
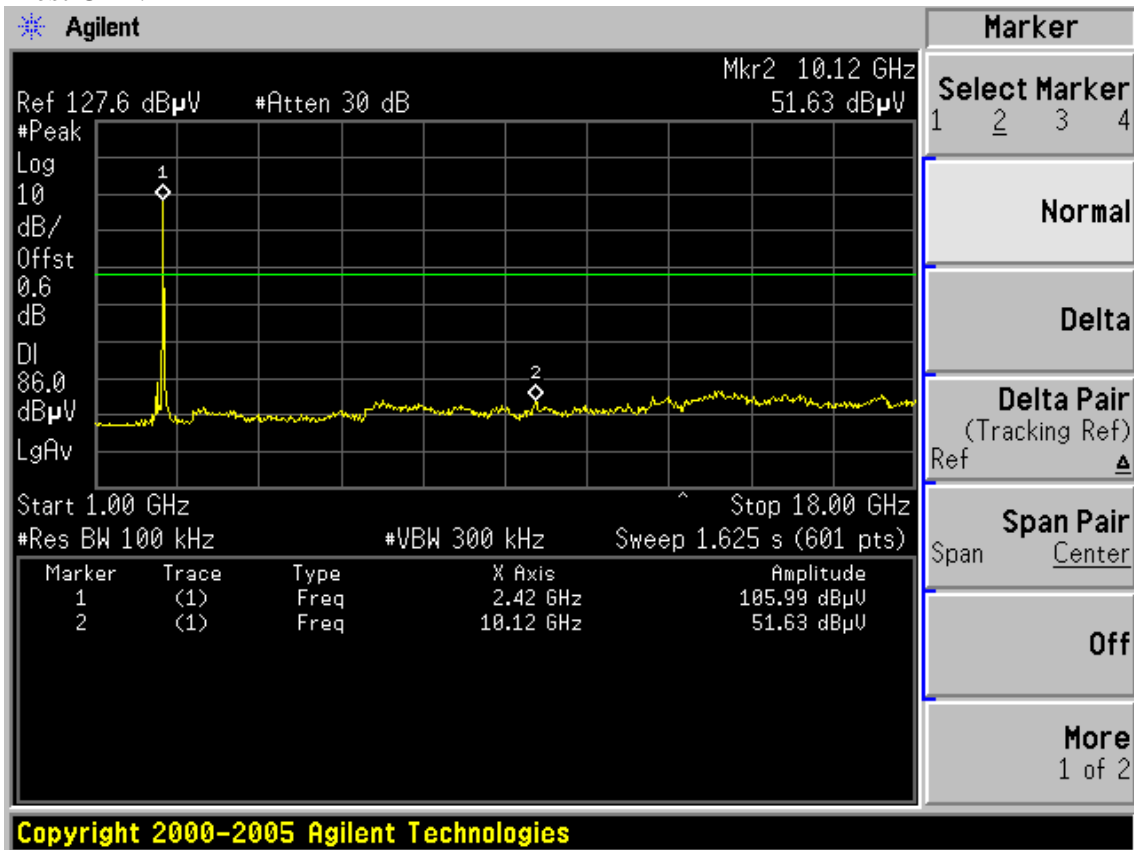


Test CH11: 2462MHz

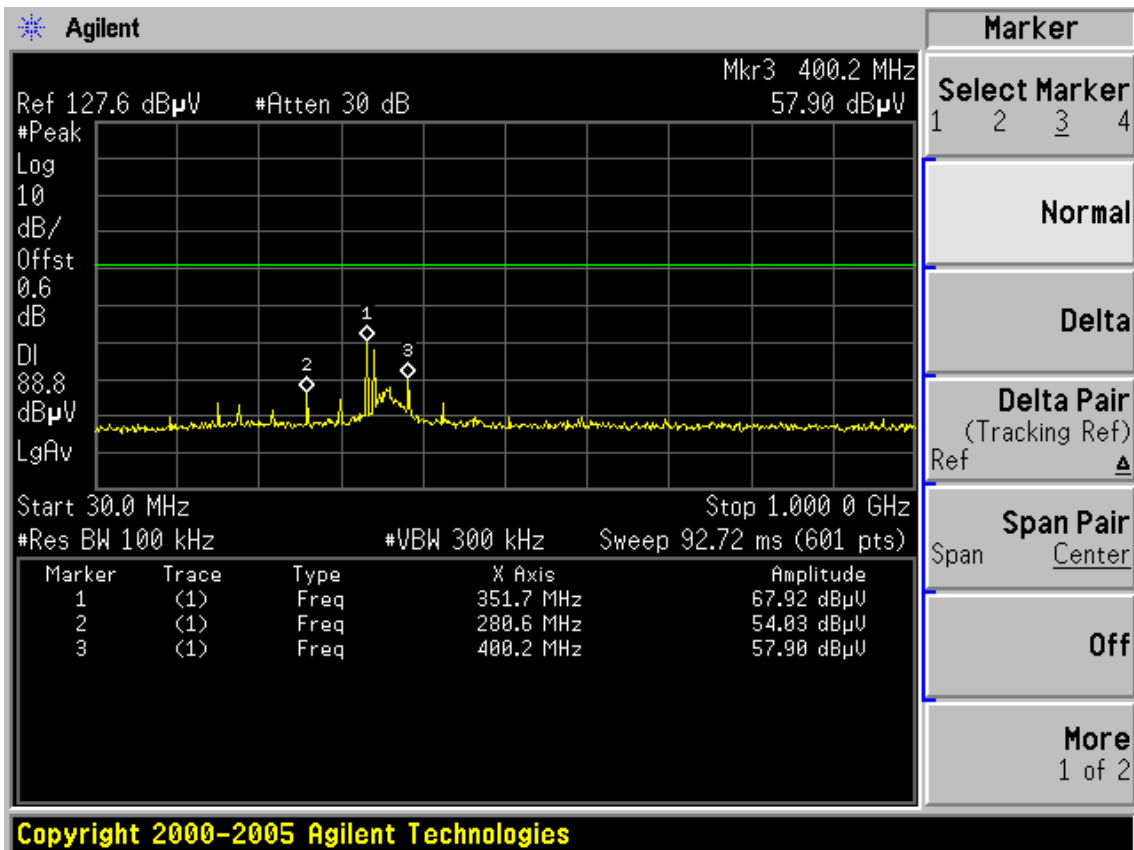
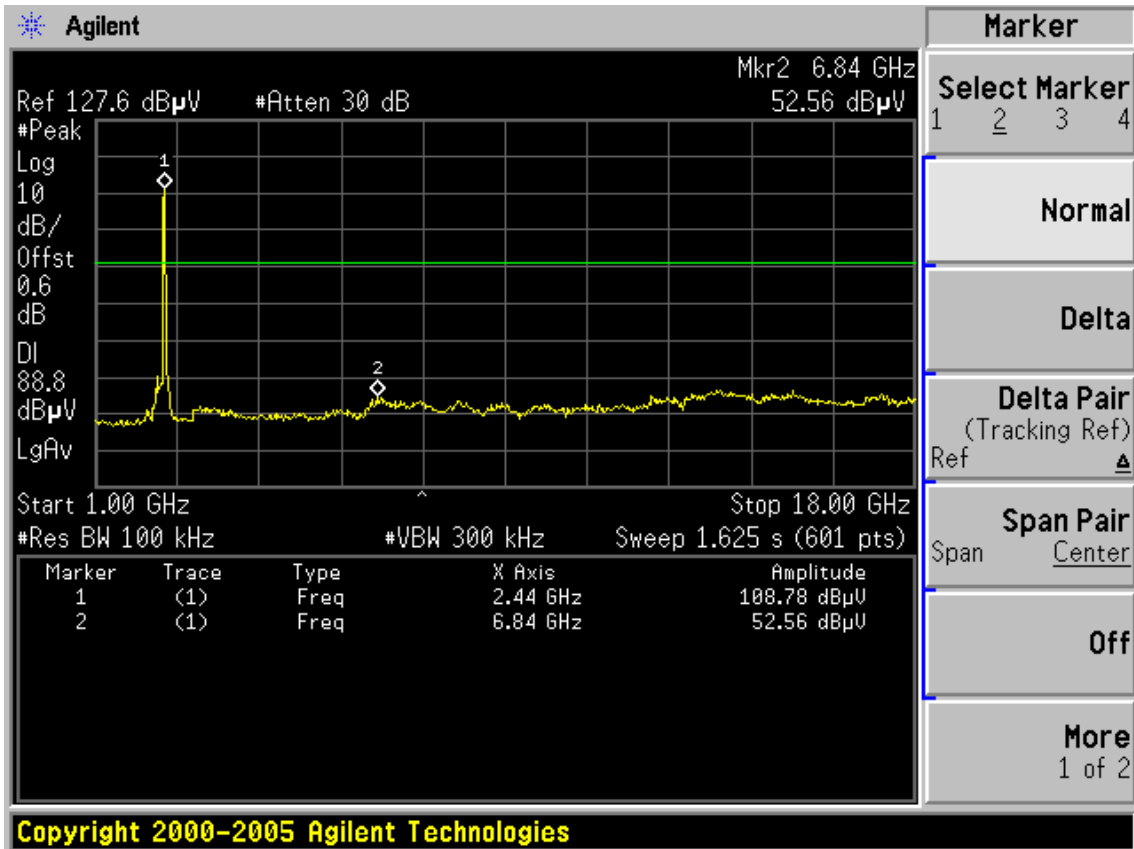


Test Mode: IEEE 802.11g TX

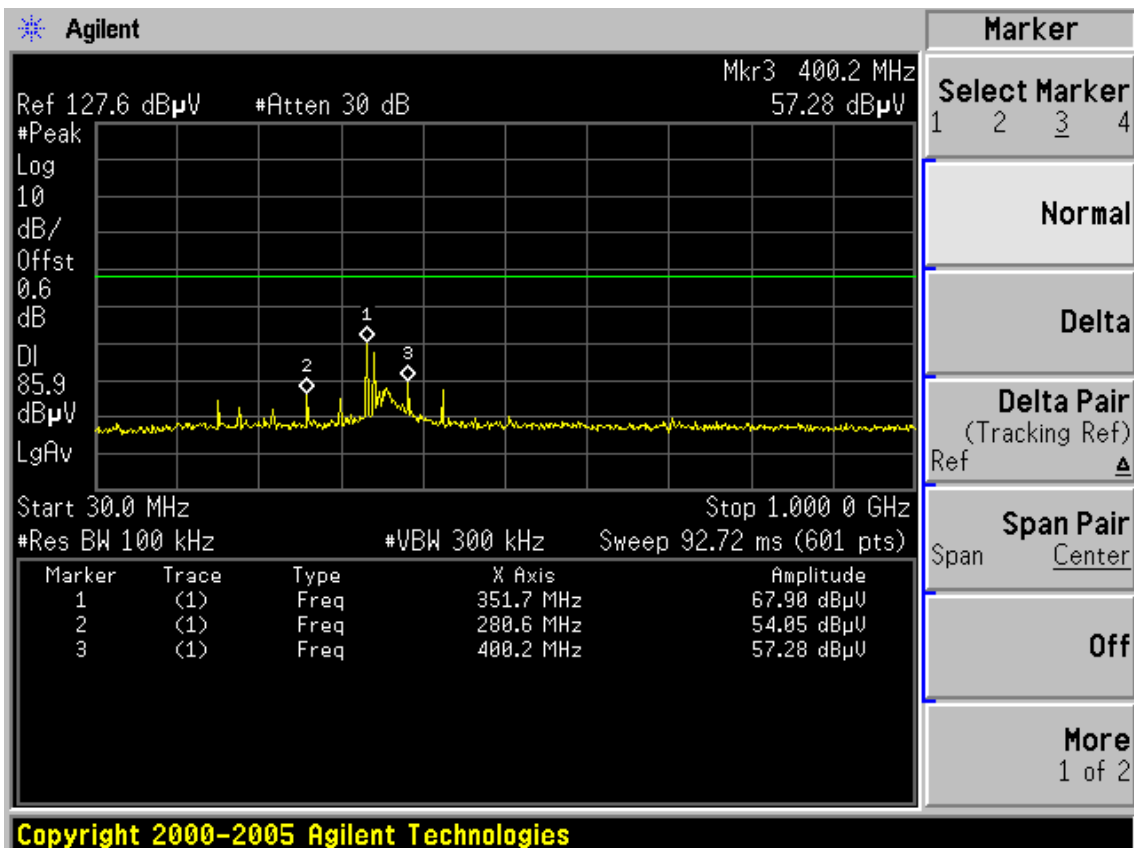
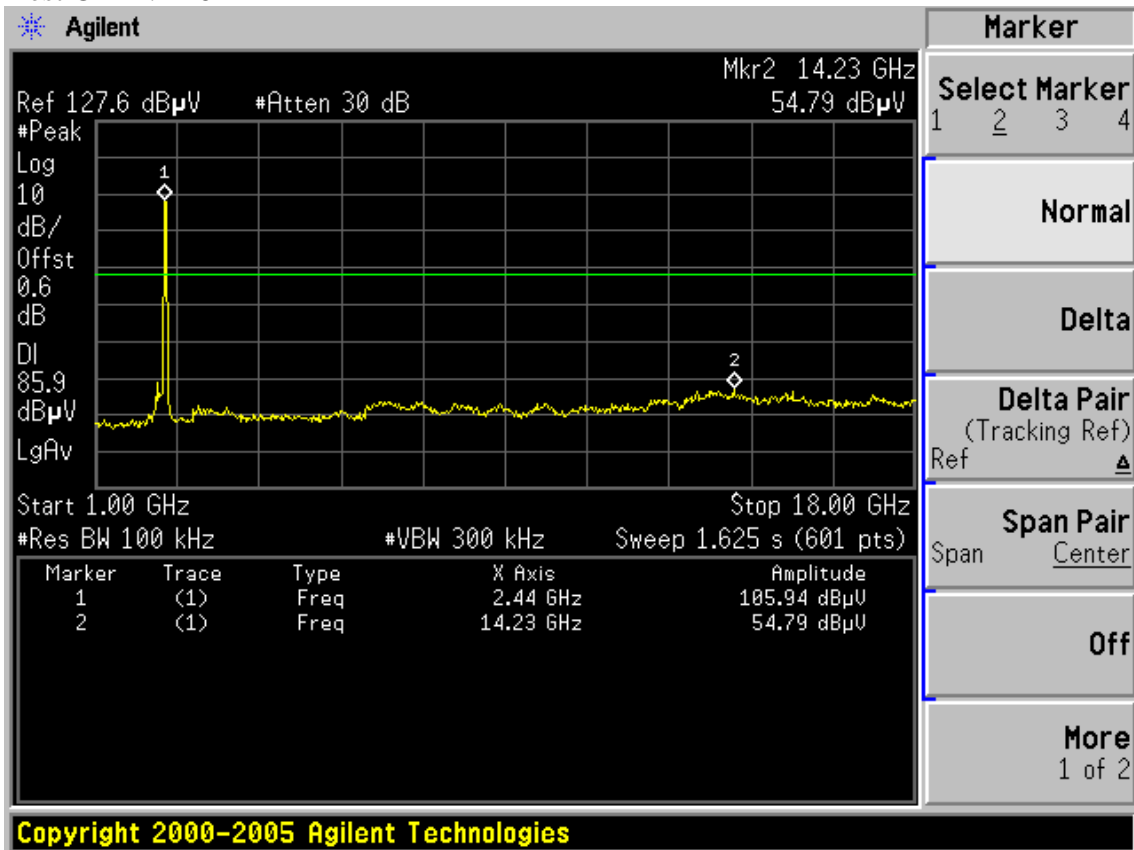
Test CH1: 2412MHz



Test CH6: 2437MHz

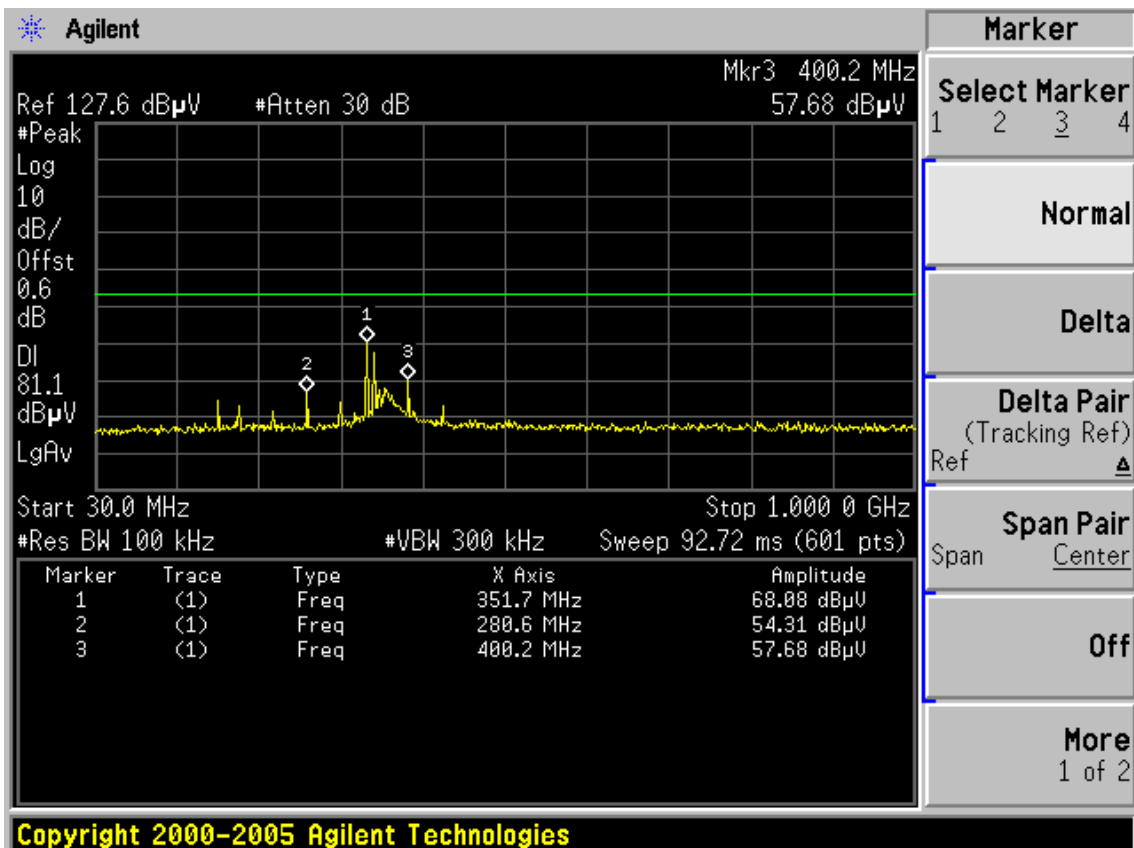
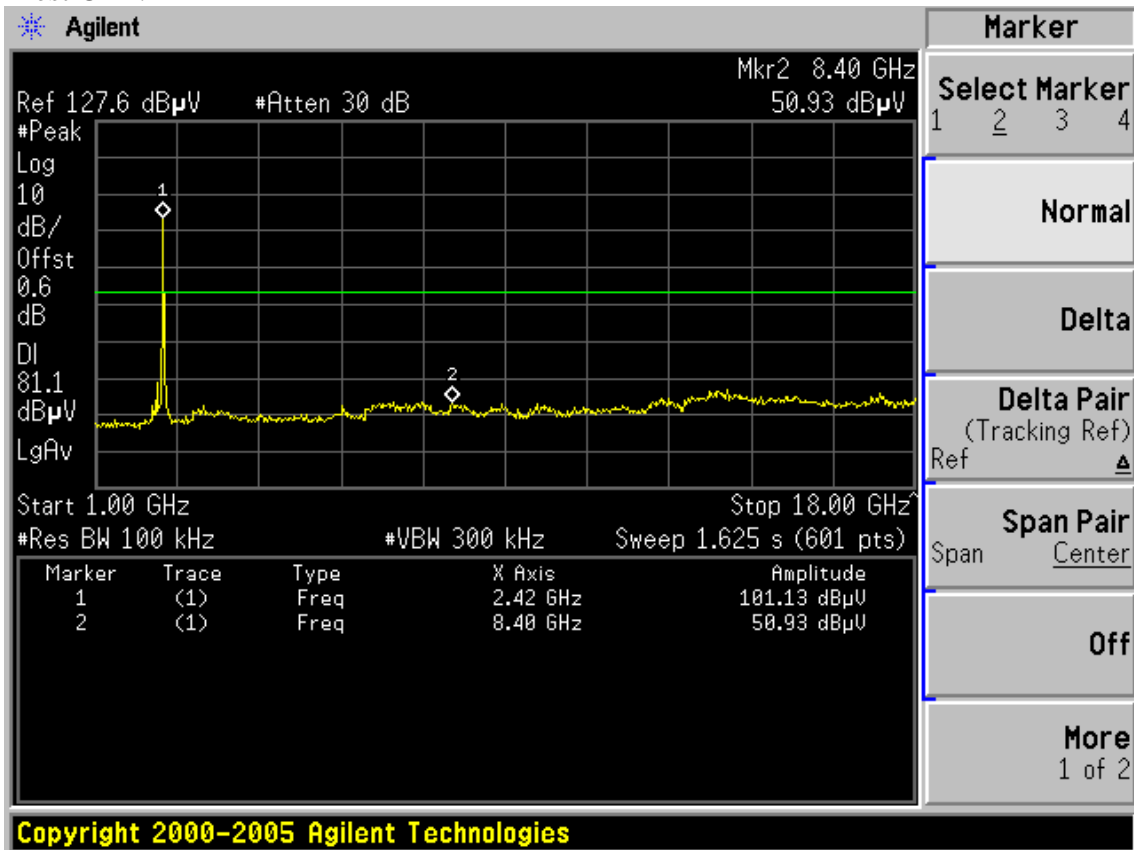


Test CH11: 2462MHz

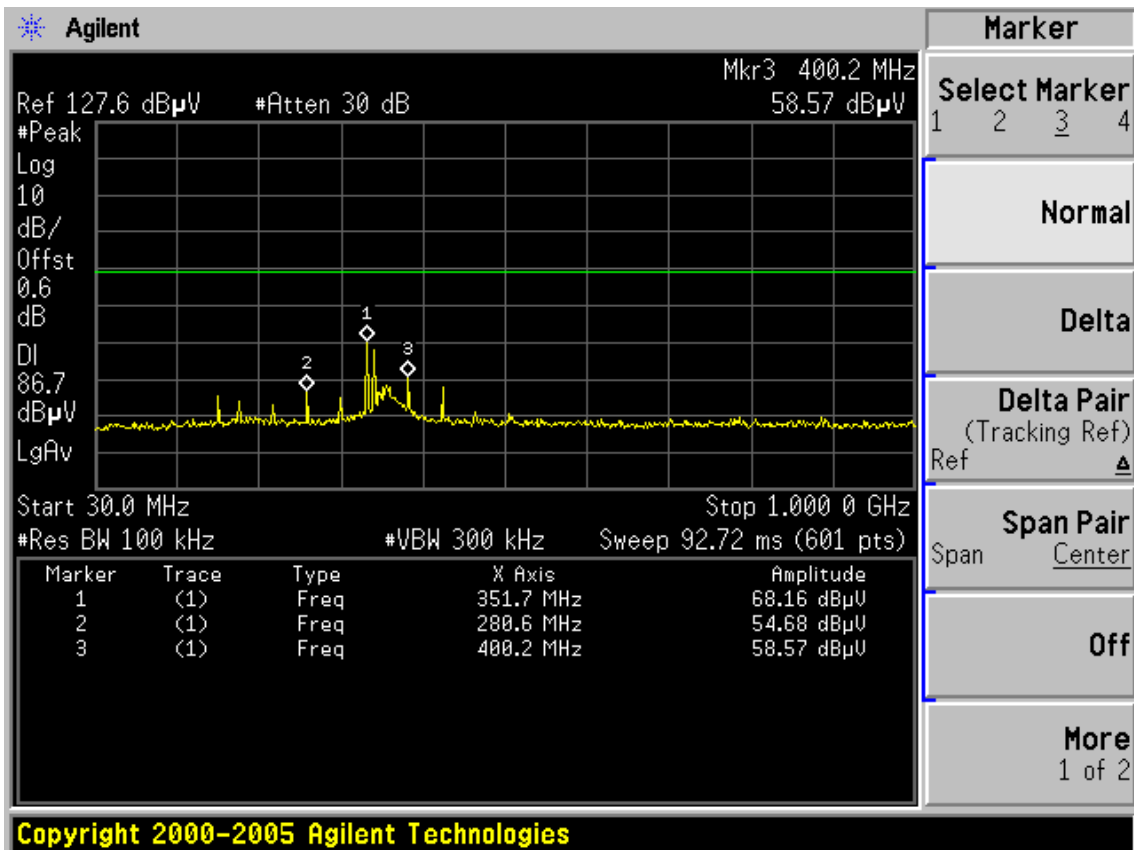
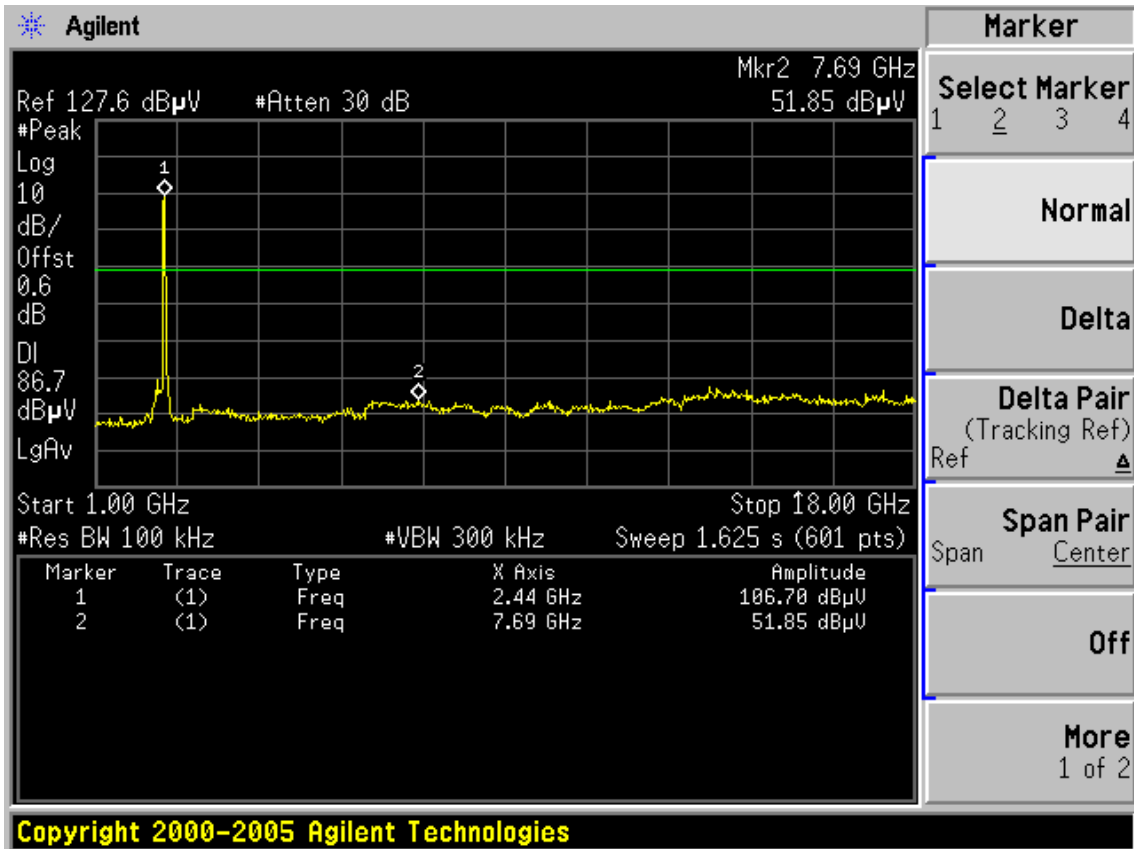


Test Mode: IEEE 802.11n HT20 TX

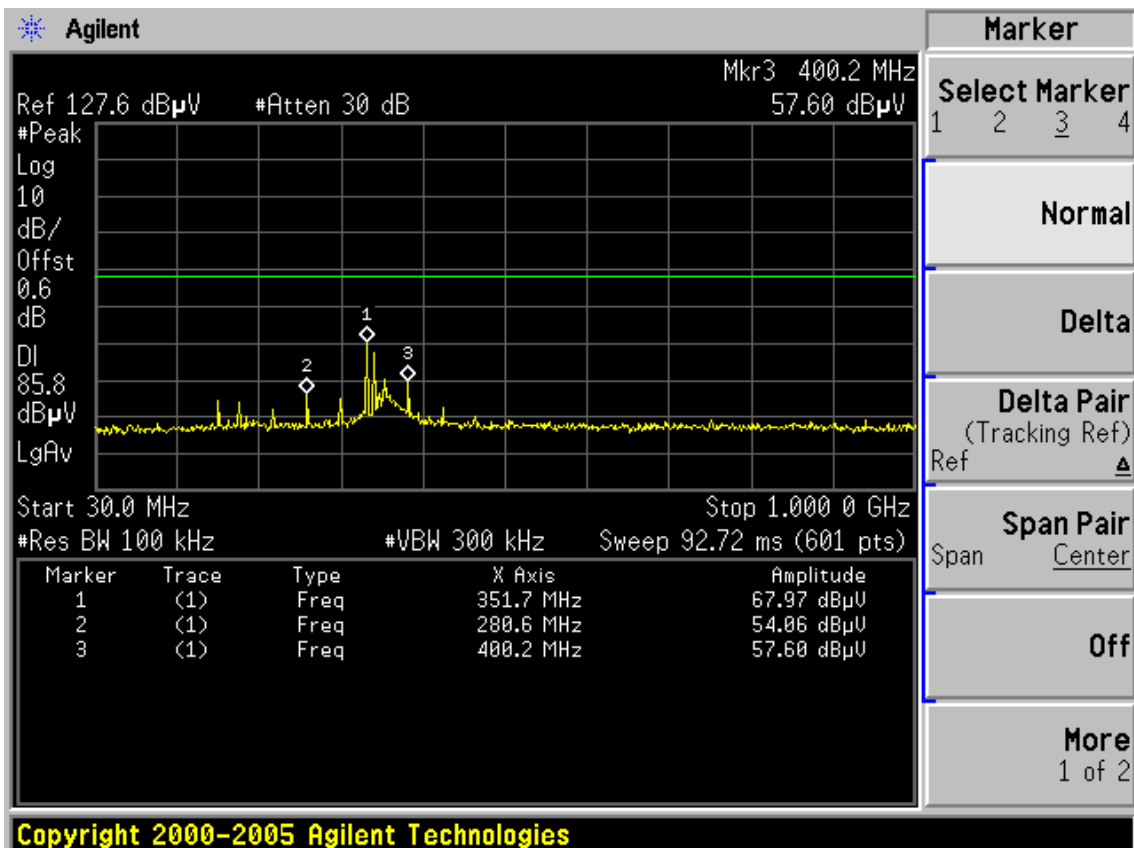
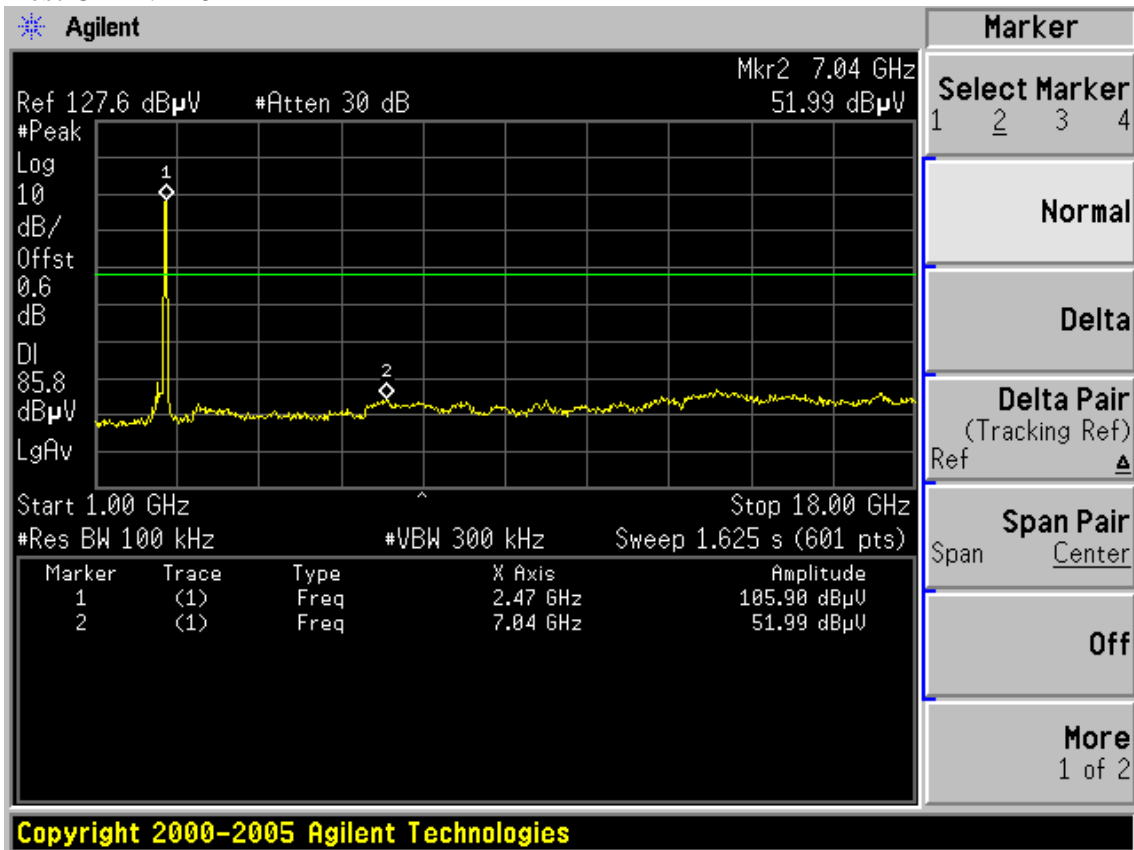
Test CH1: 2412MHz



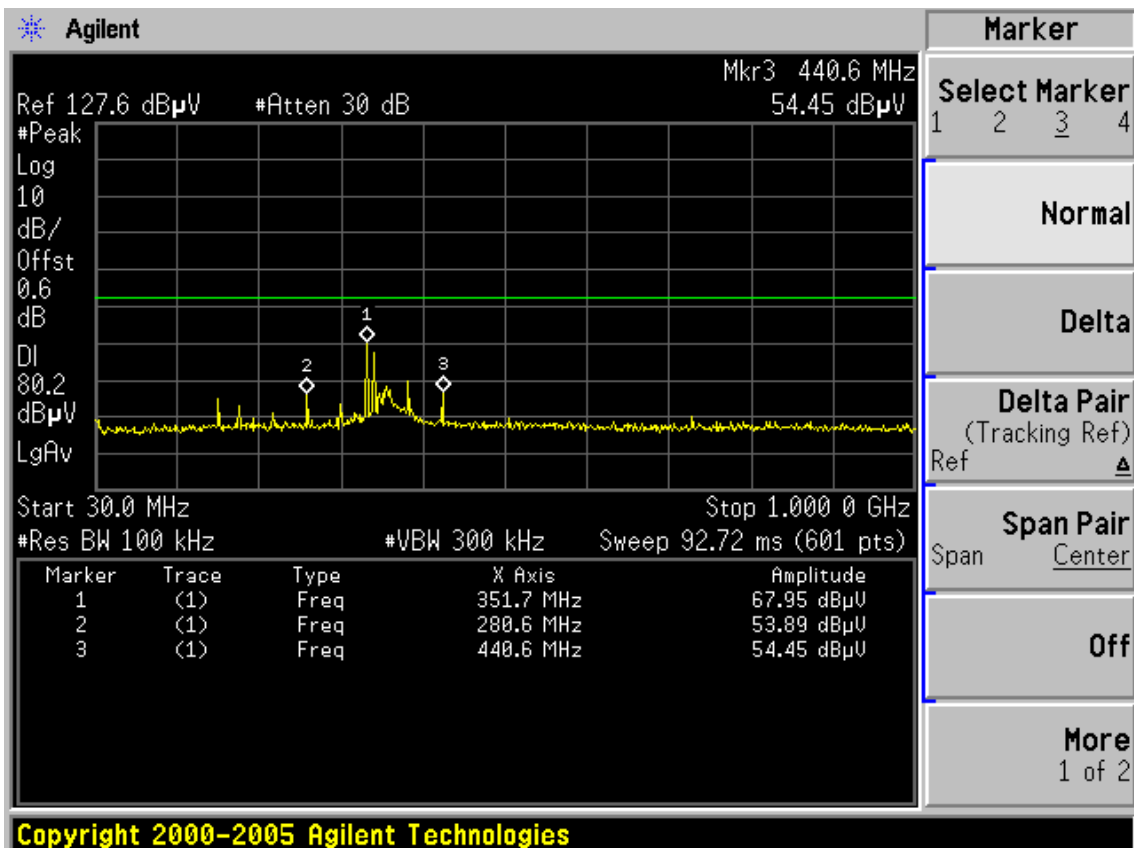
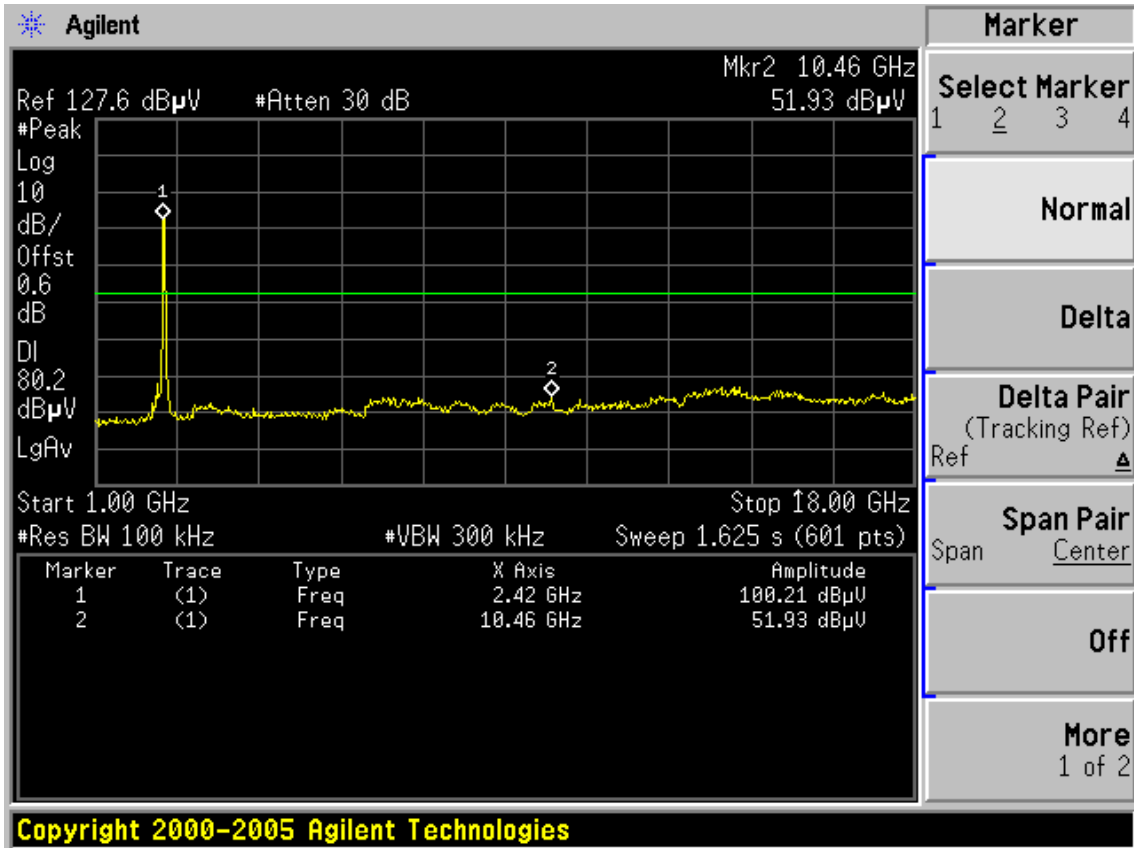
Test CH6: 2437MHz



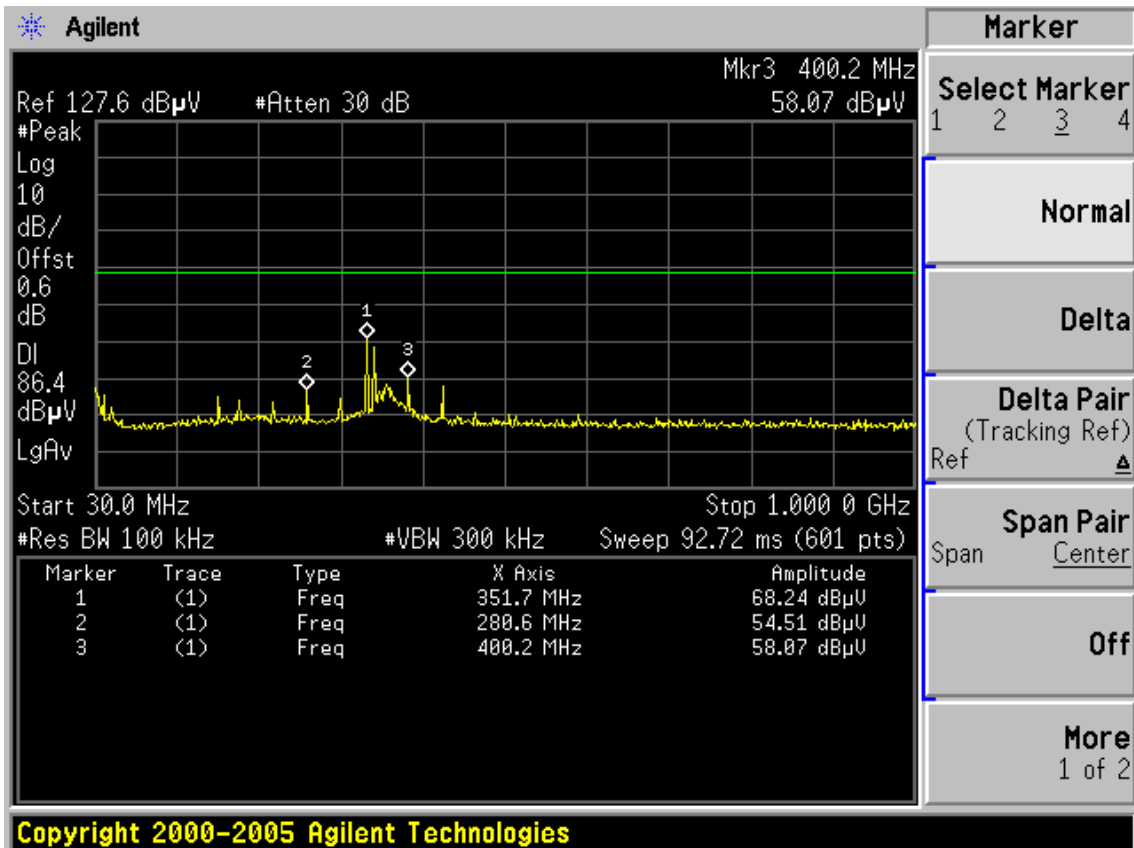
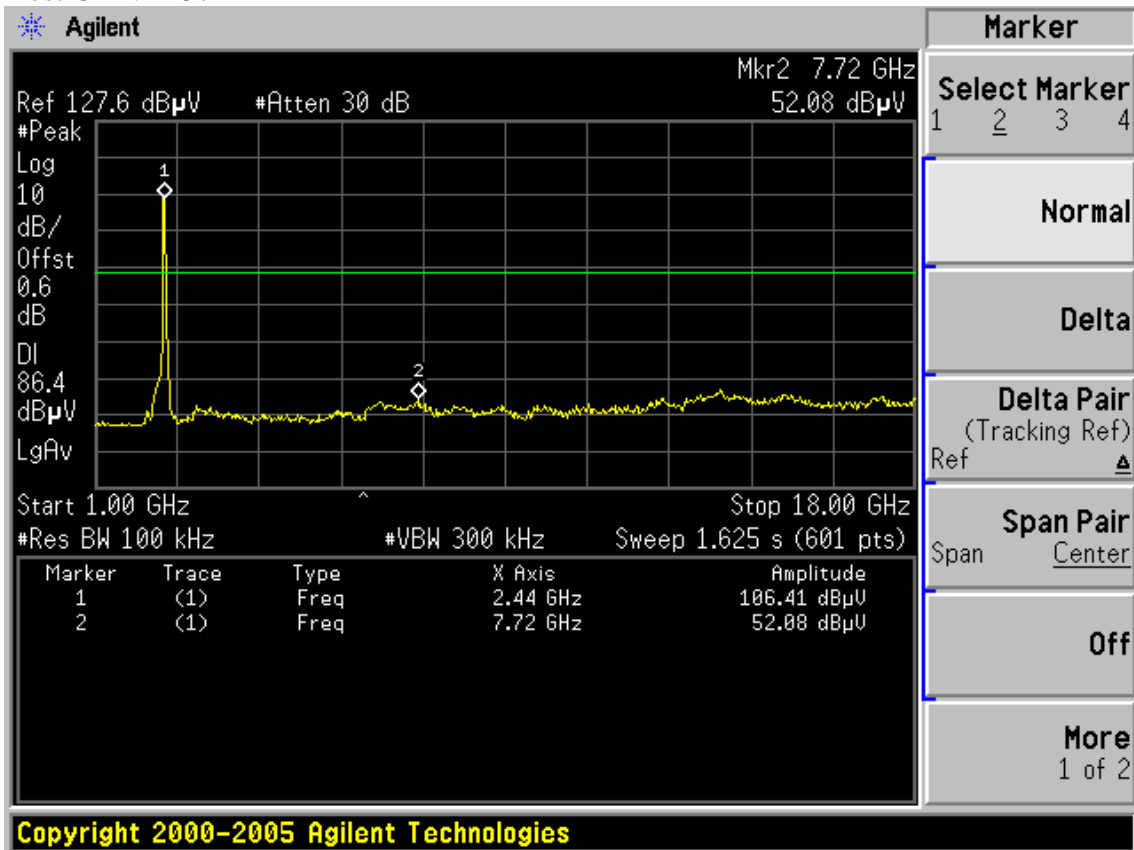
Test CH11: 2462MHz



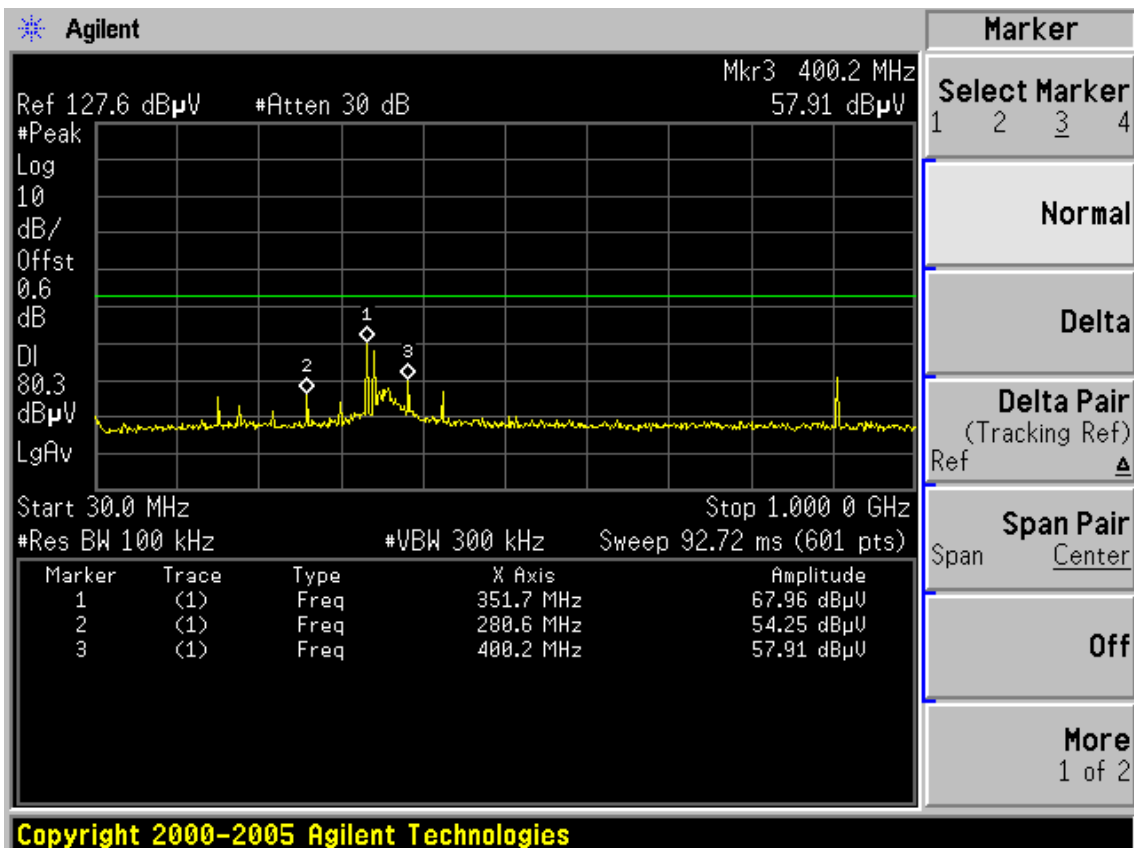
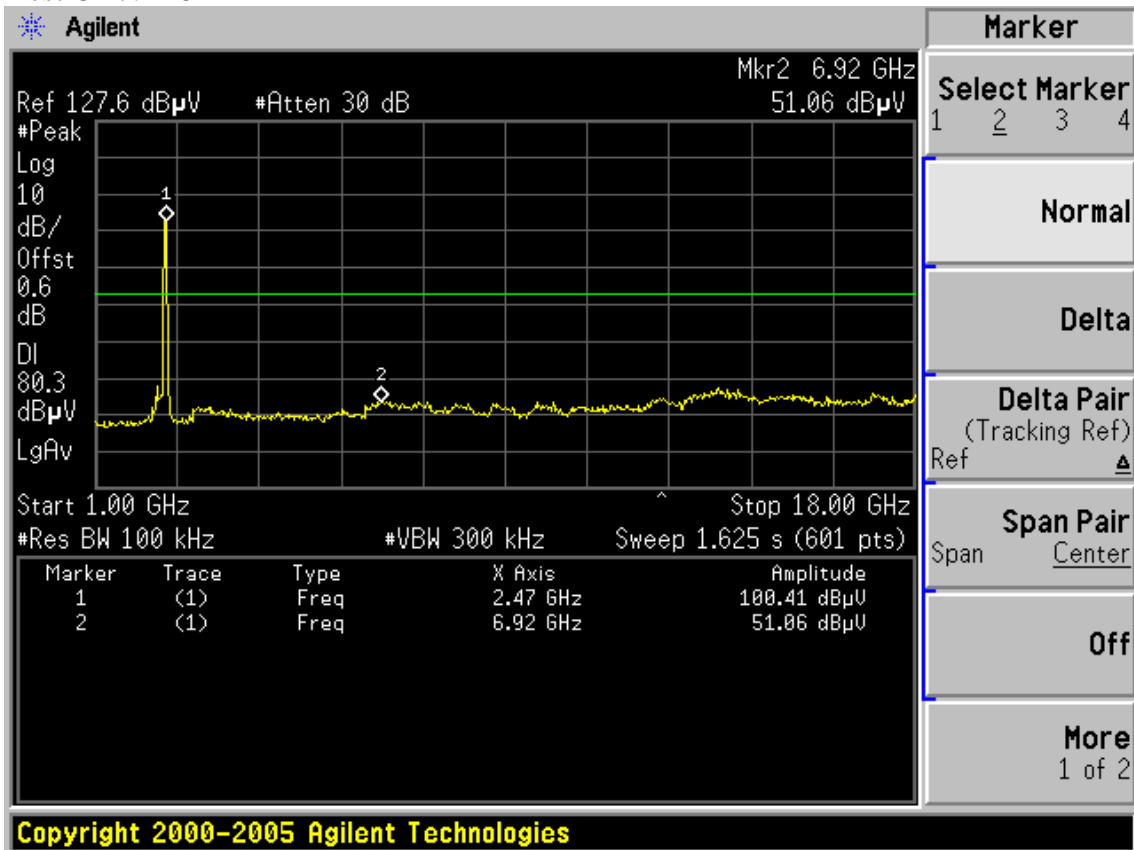
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



Test CH4: 2437MHz



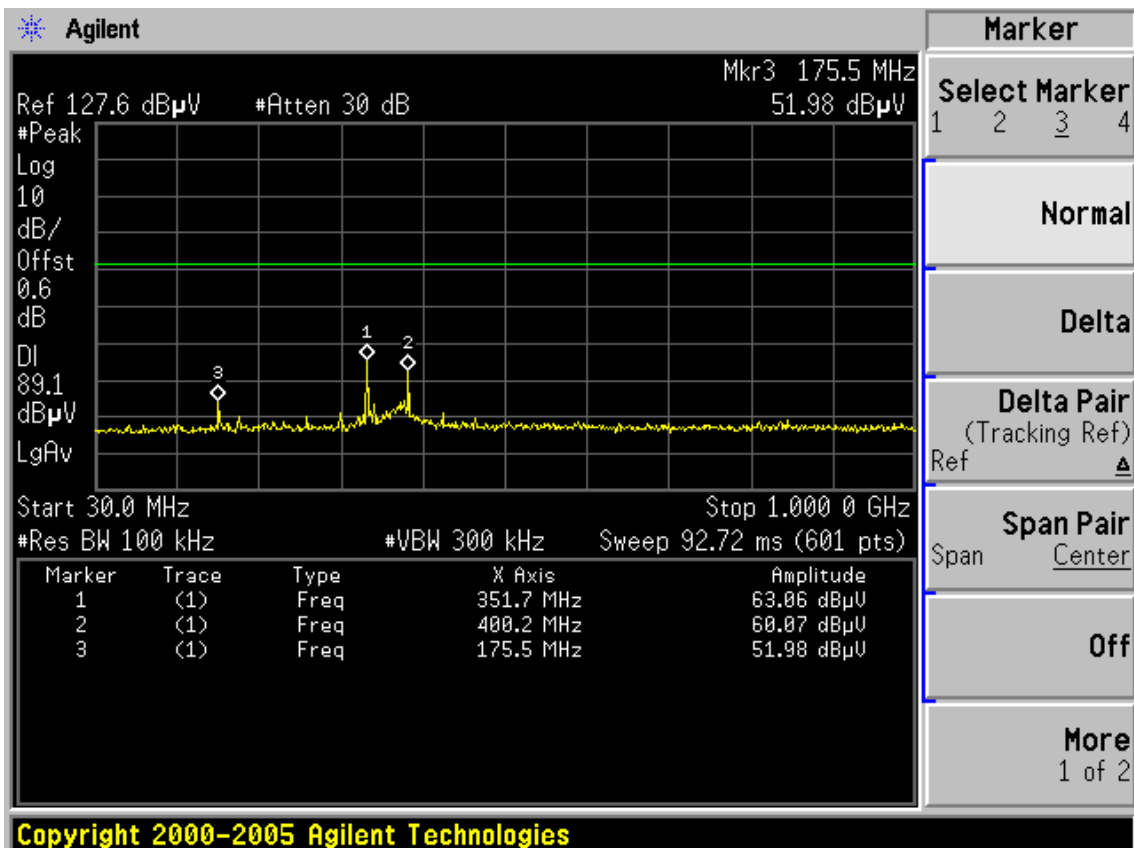
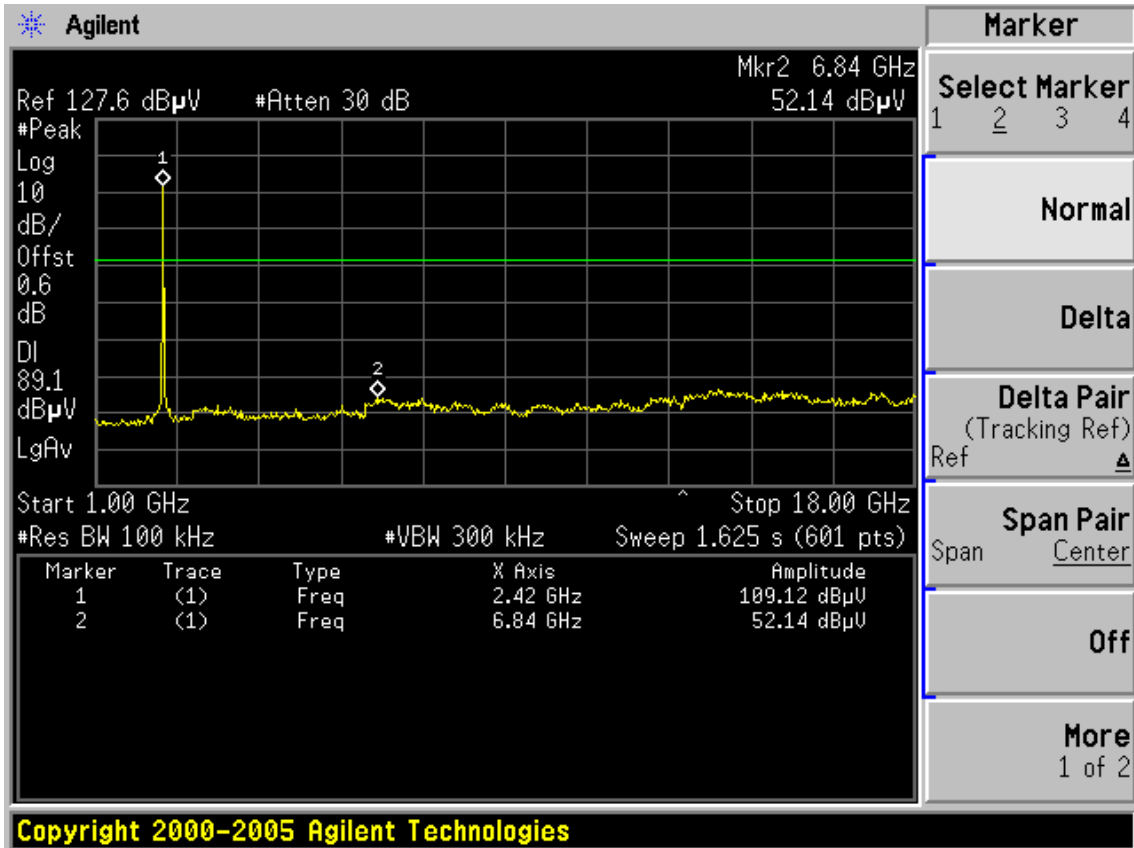
Test CH7: 2452MHz



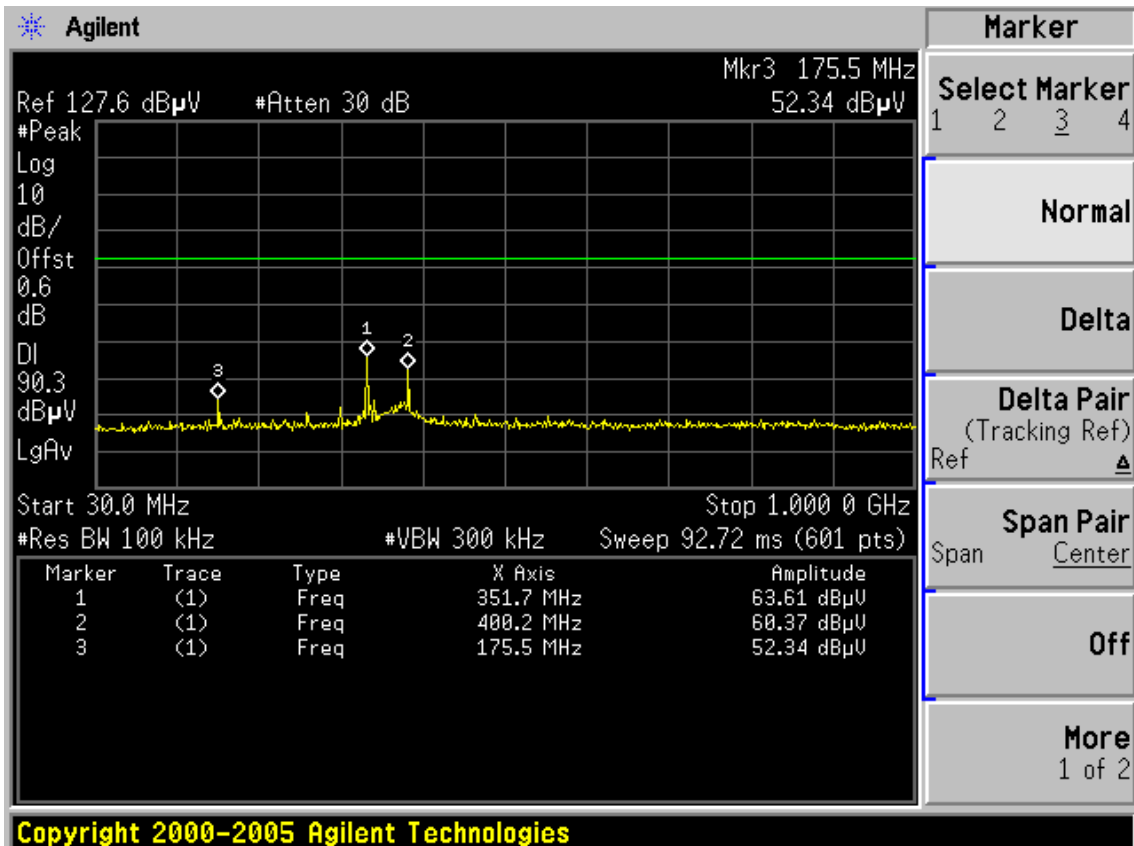
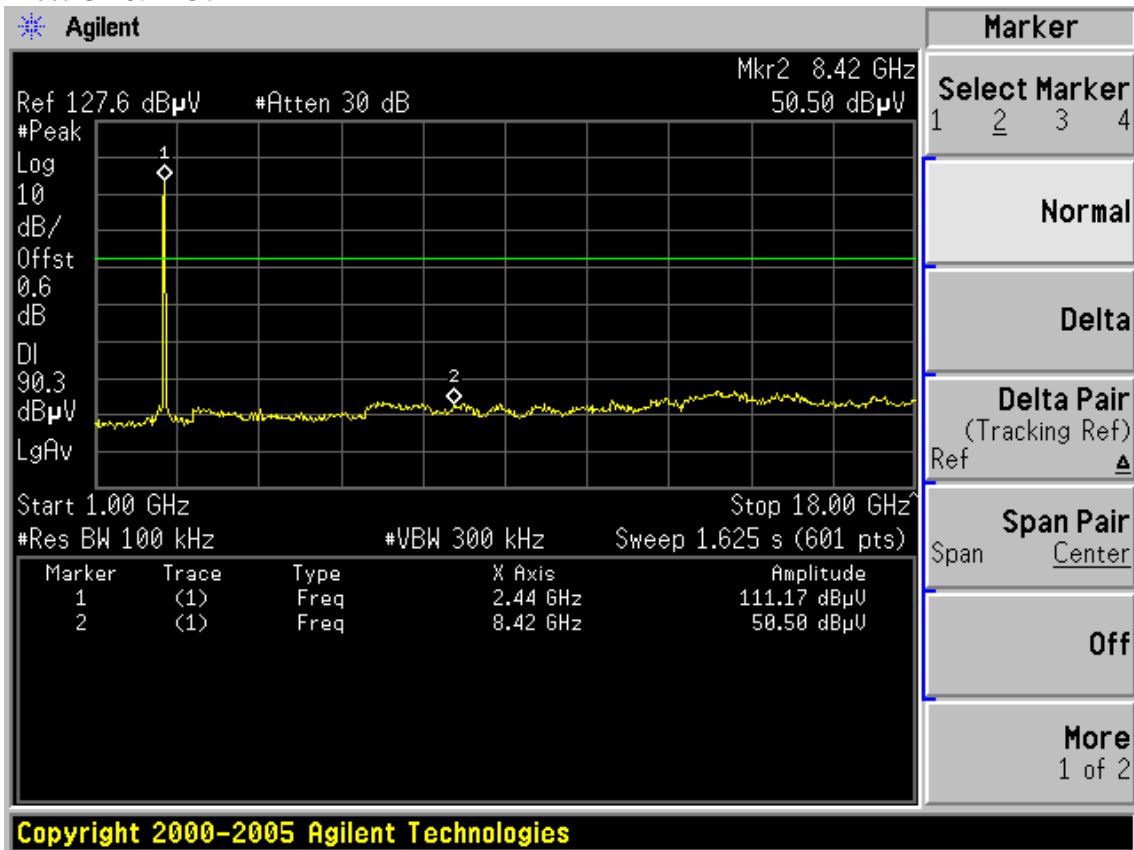
Chain 2:

Test Mode: IEEE 802.11b TX

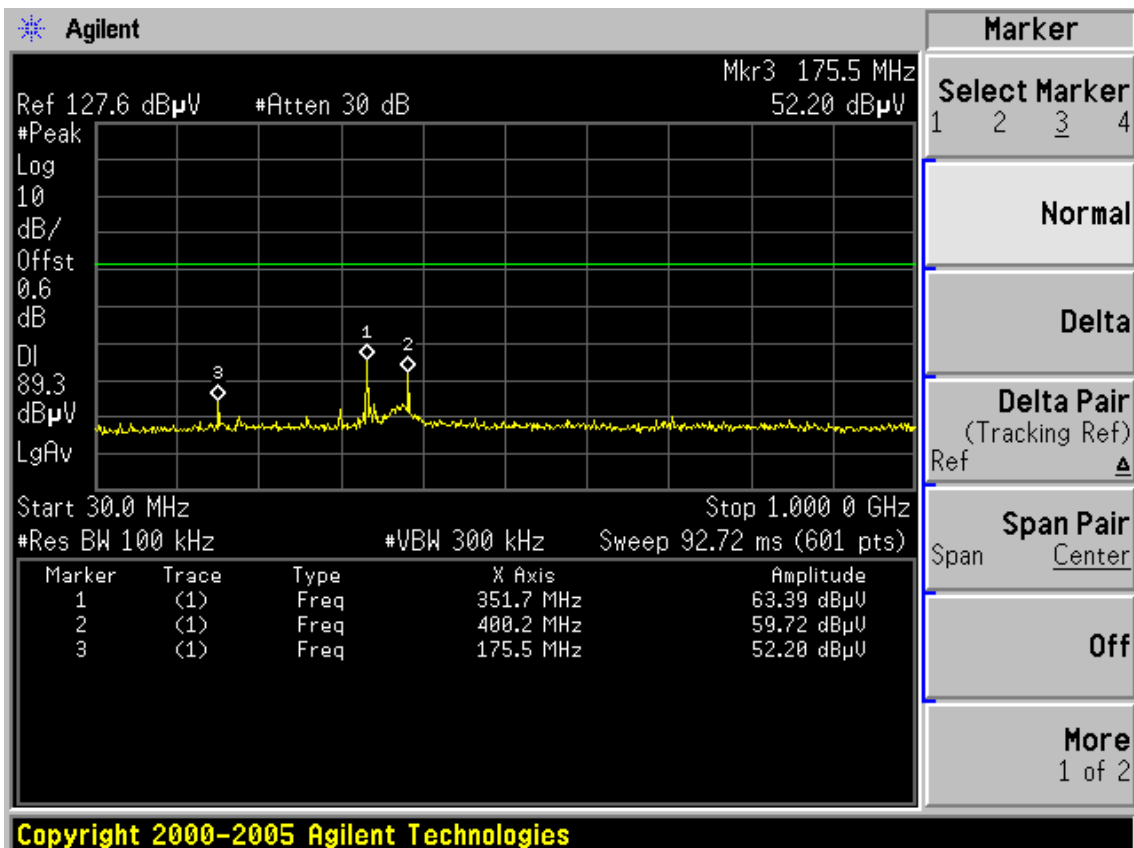
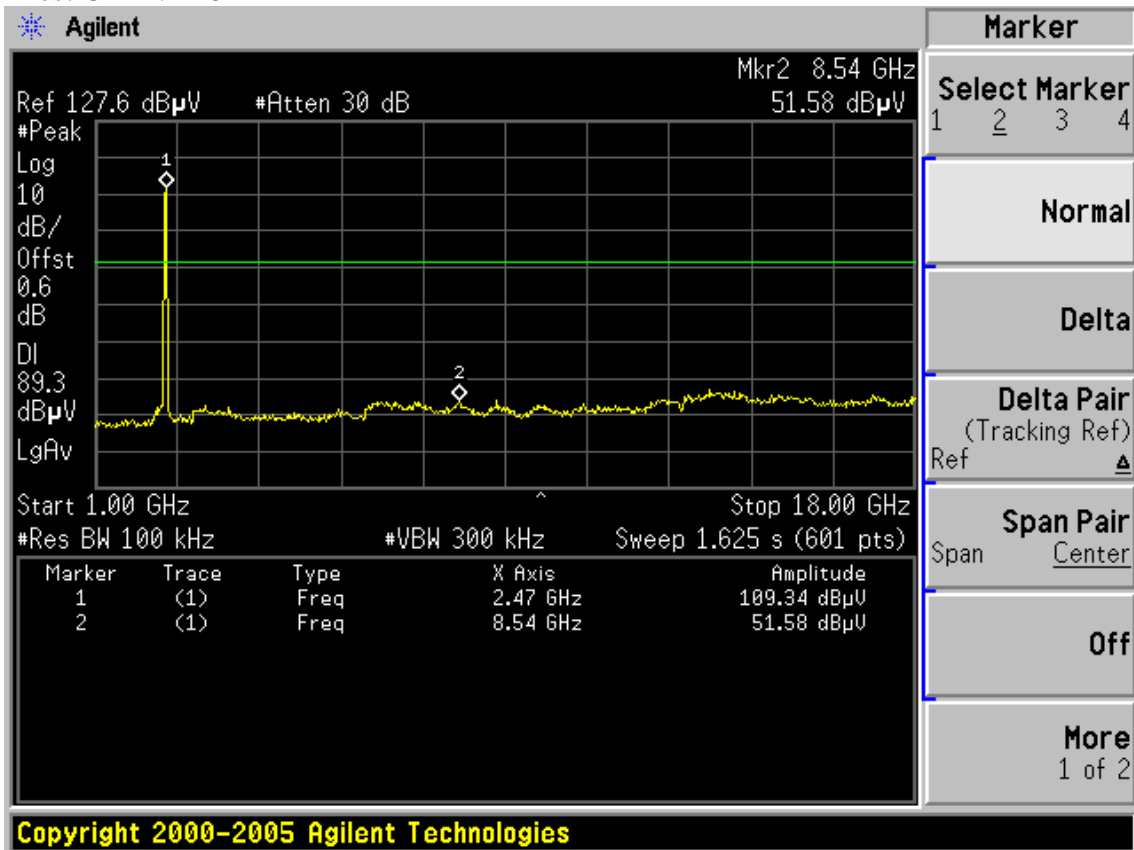
Test CH1: 2412MHz



Test CH6: 2437MHz

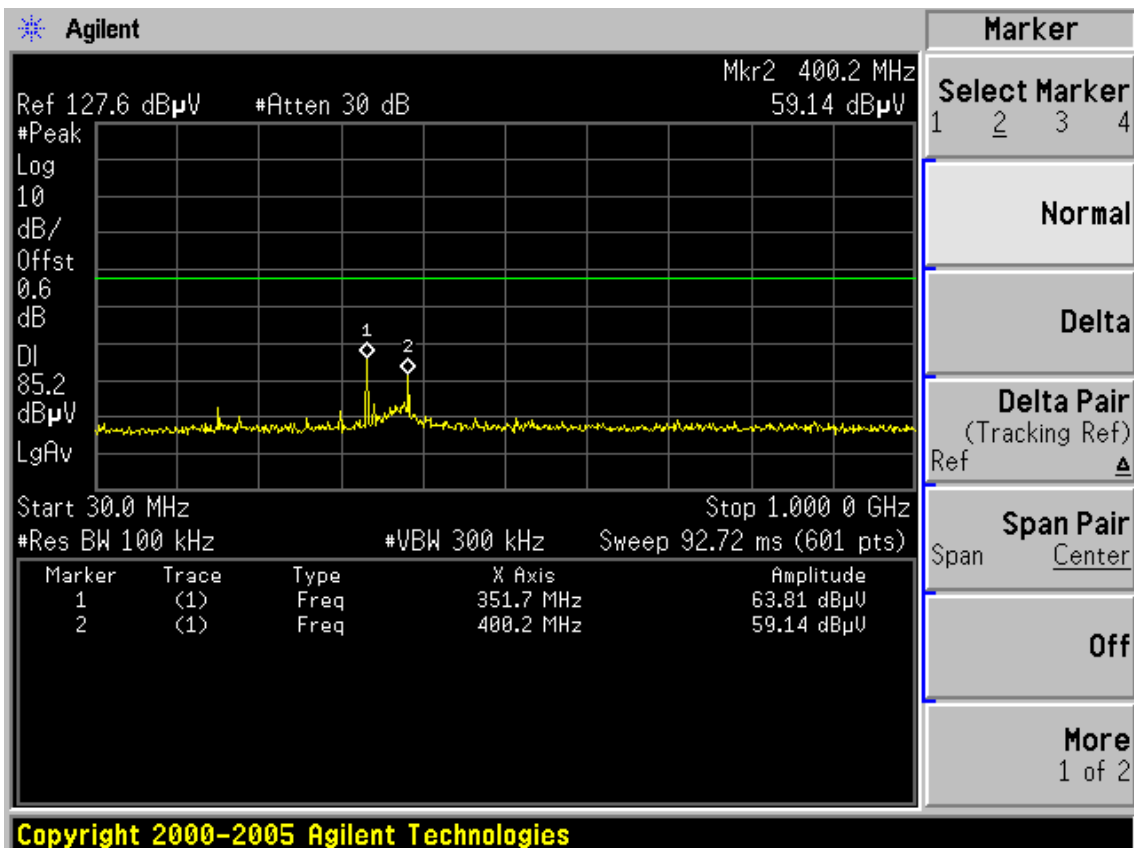
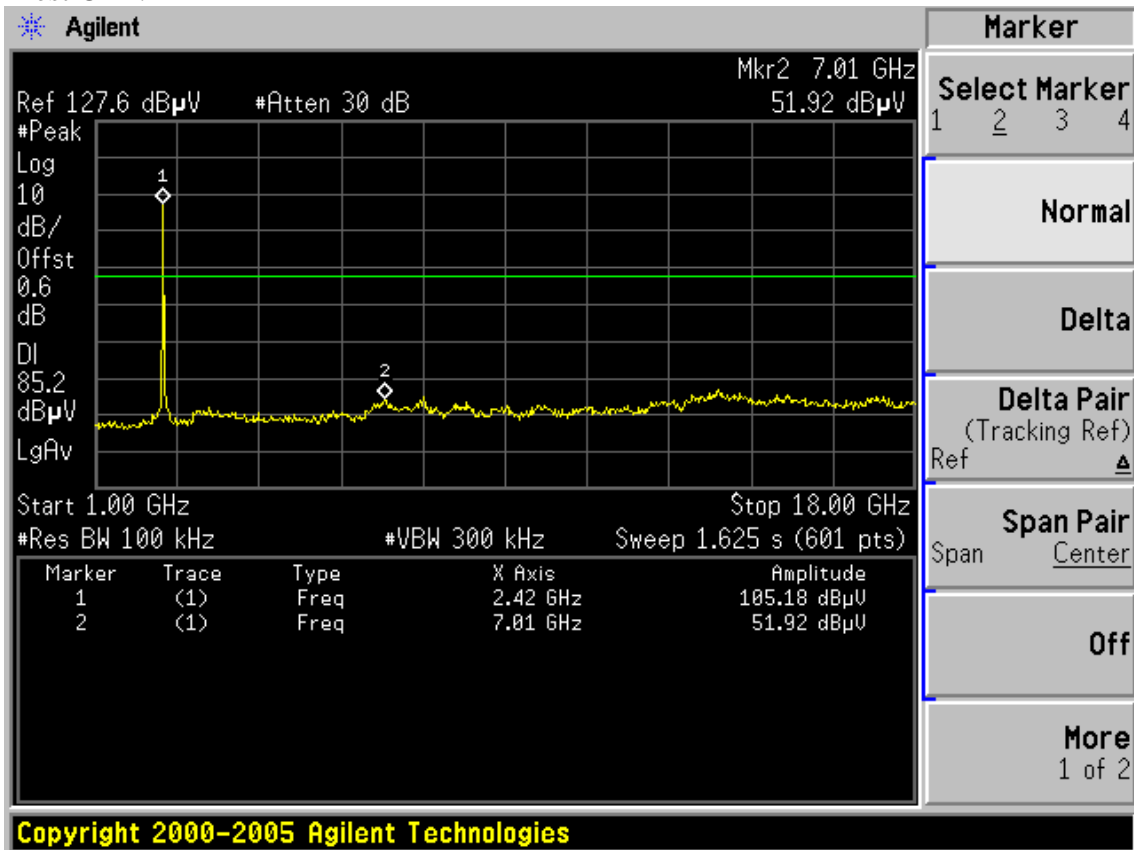


Test CH11: 2462MHz

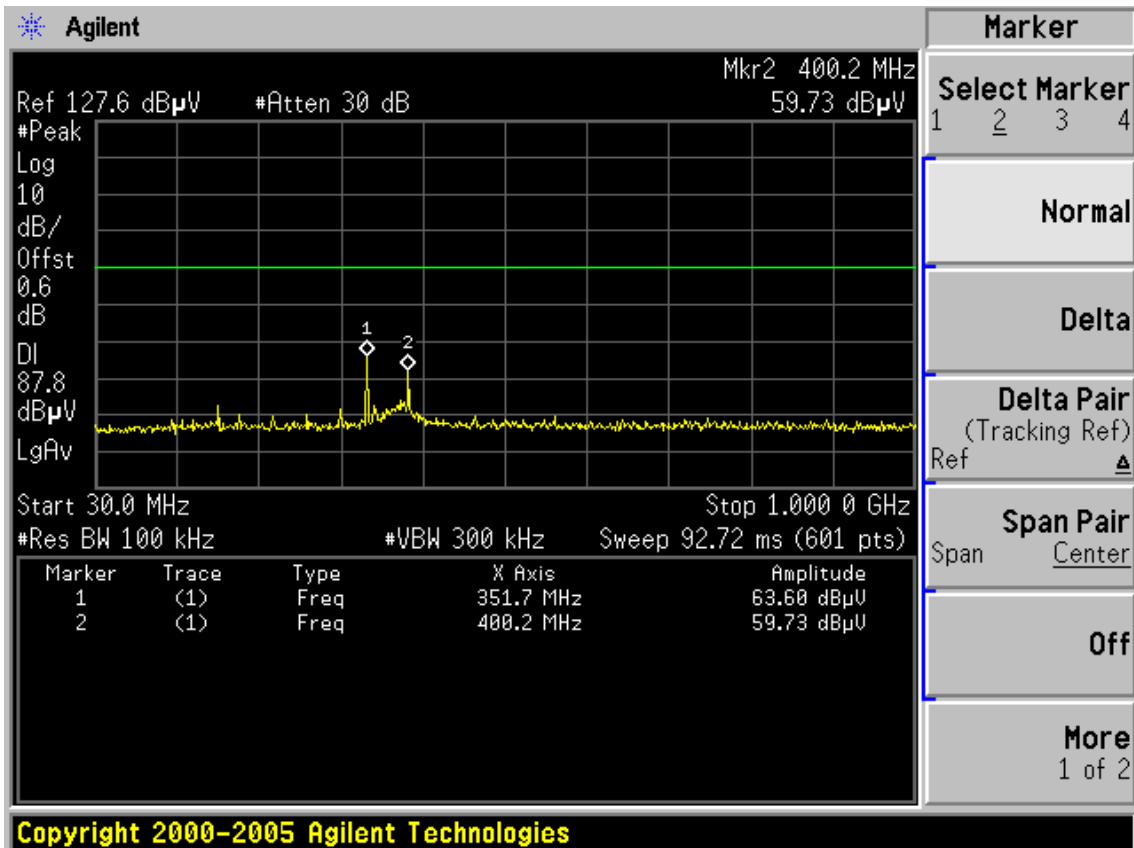
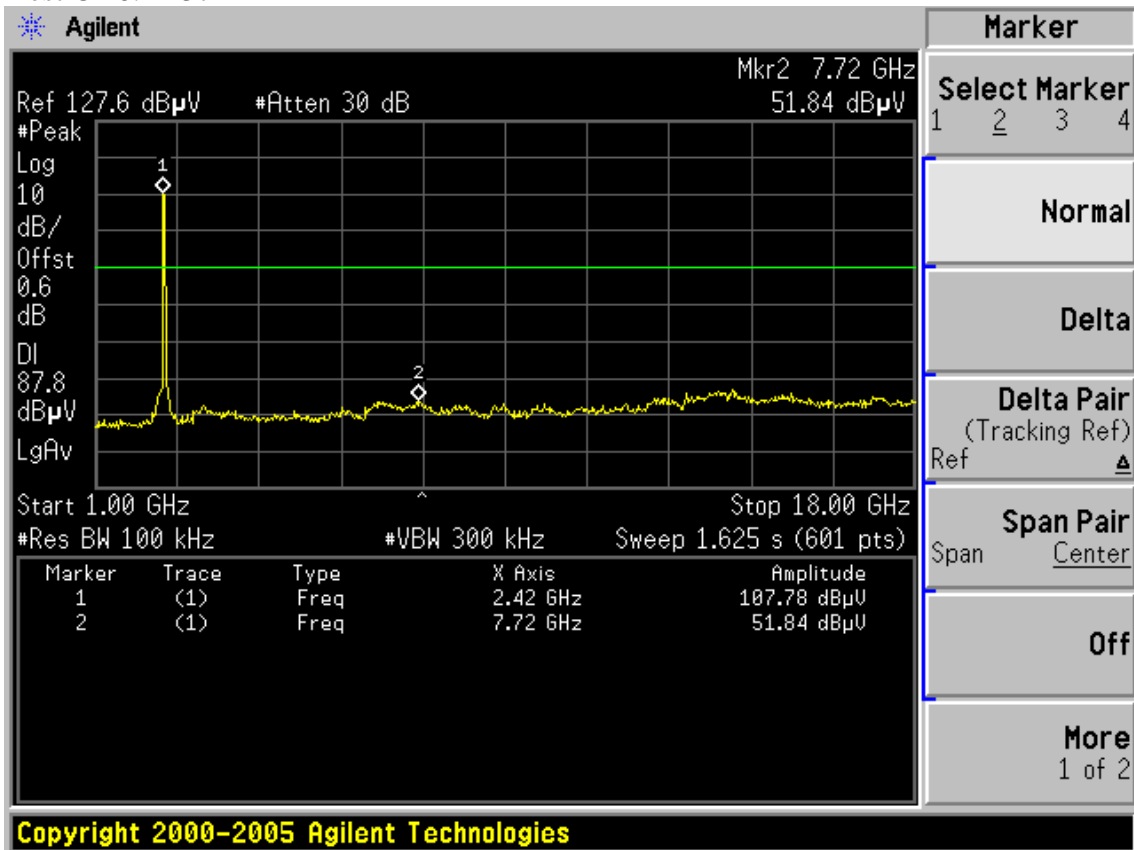


Test Mode: IEEE 802.11g TX

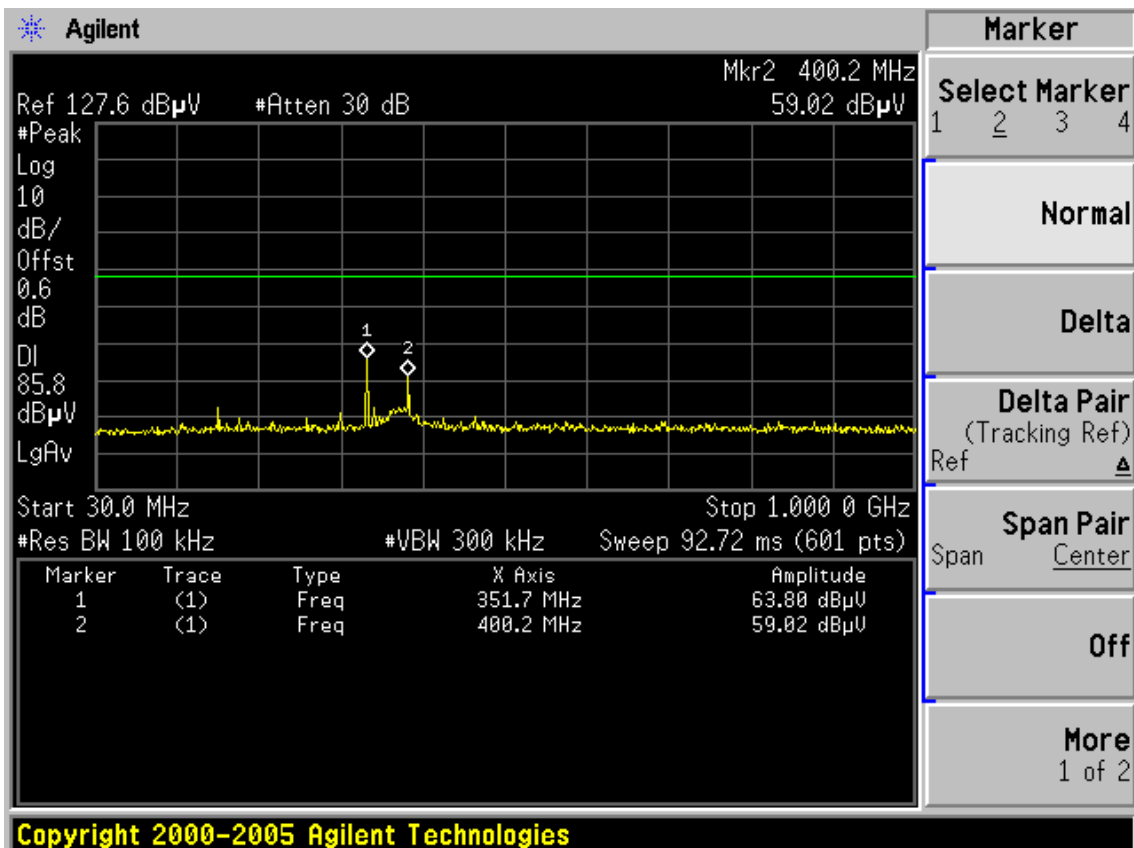
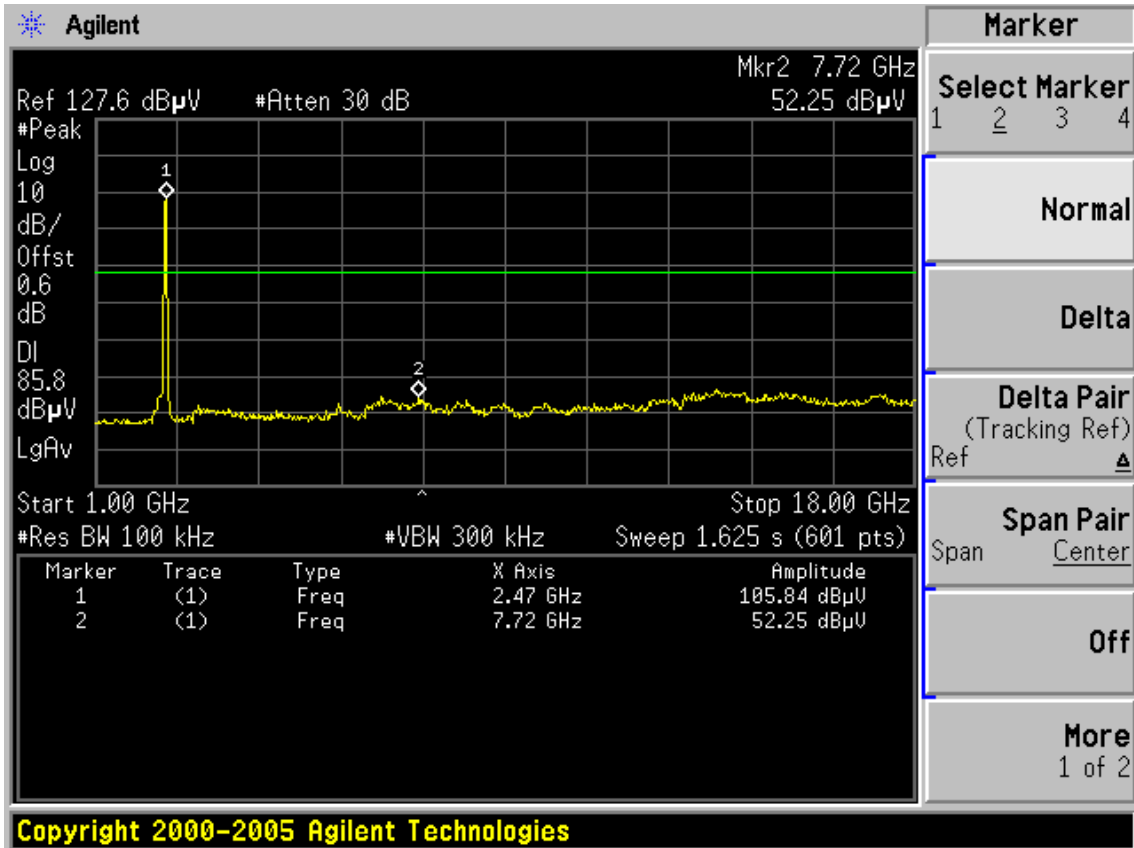
Test CH1: 2412MHz



Test CH6: 2437MHz

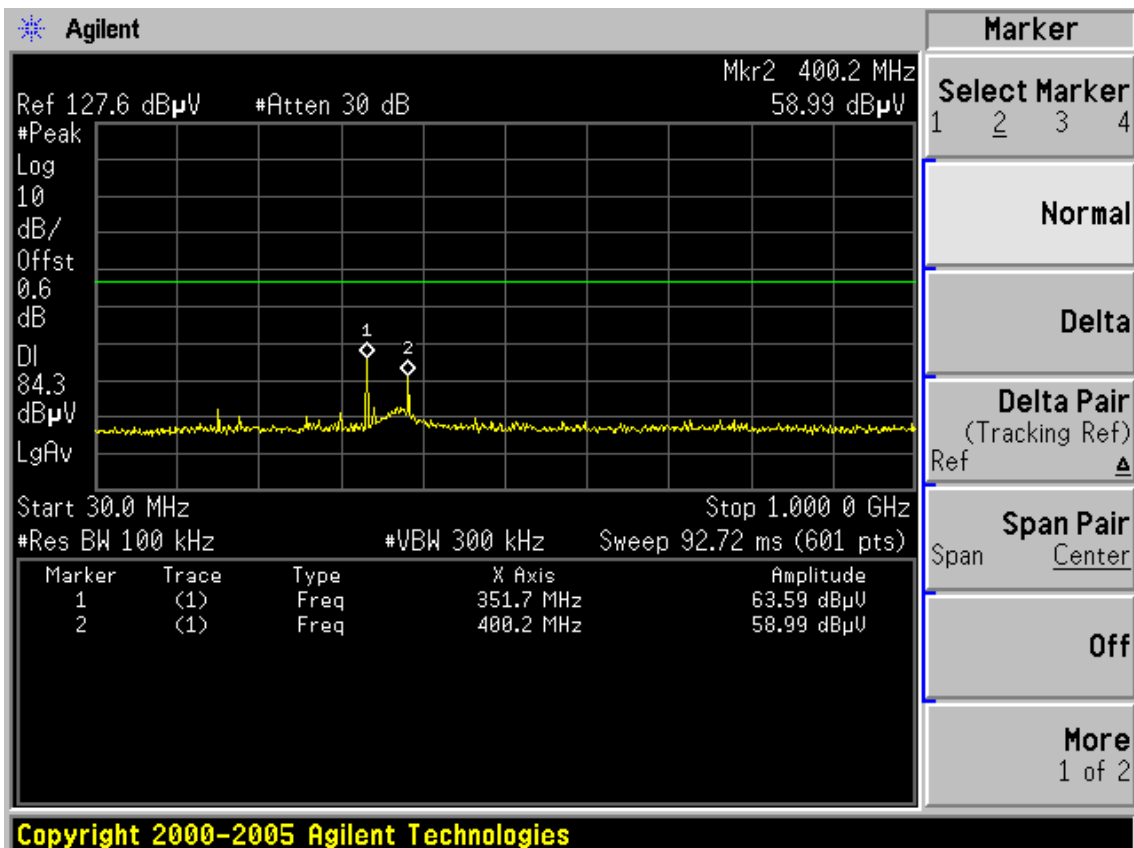
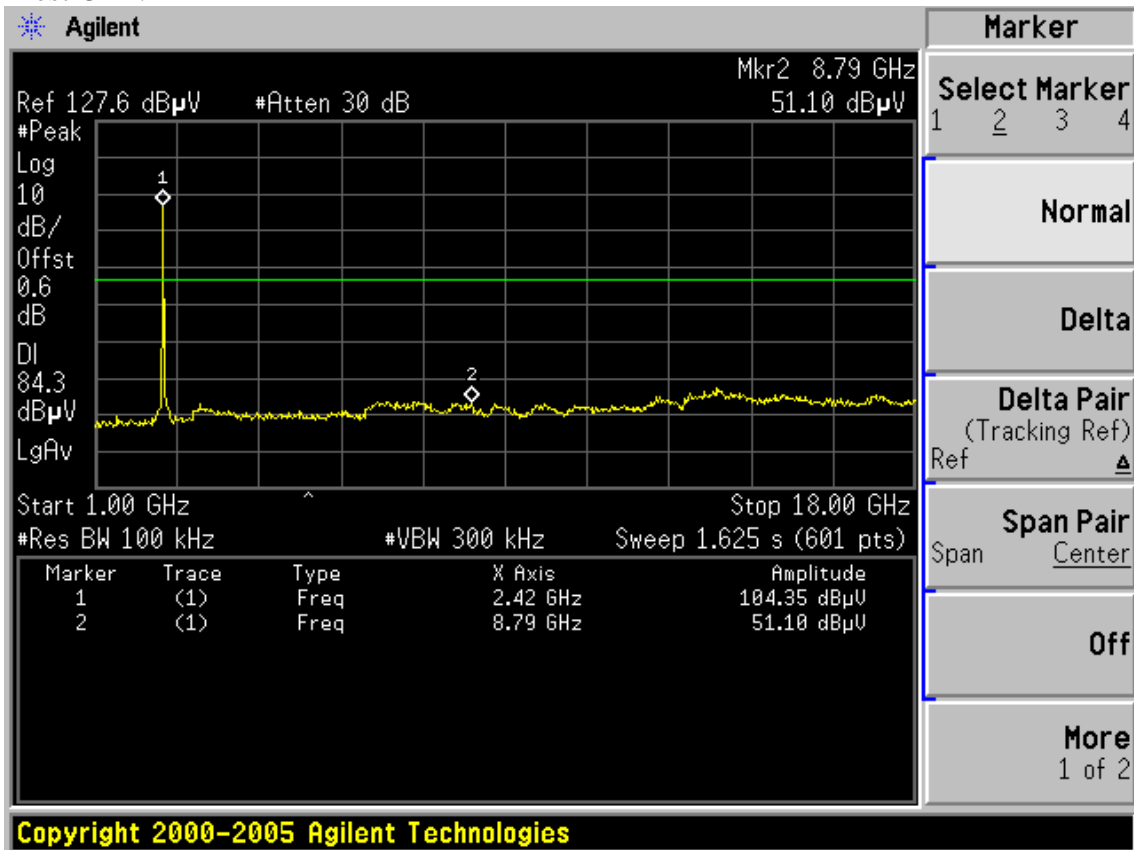


Test CH11: 2462MHz

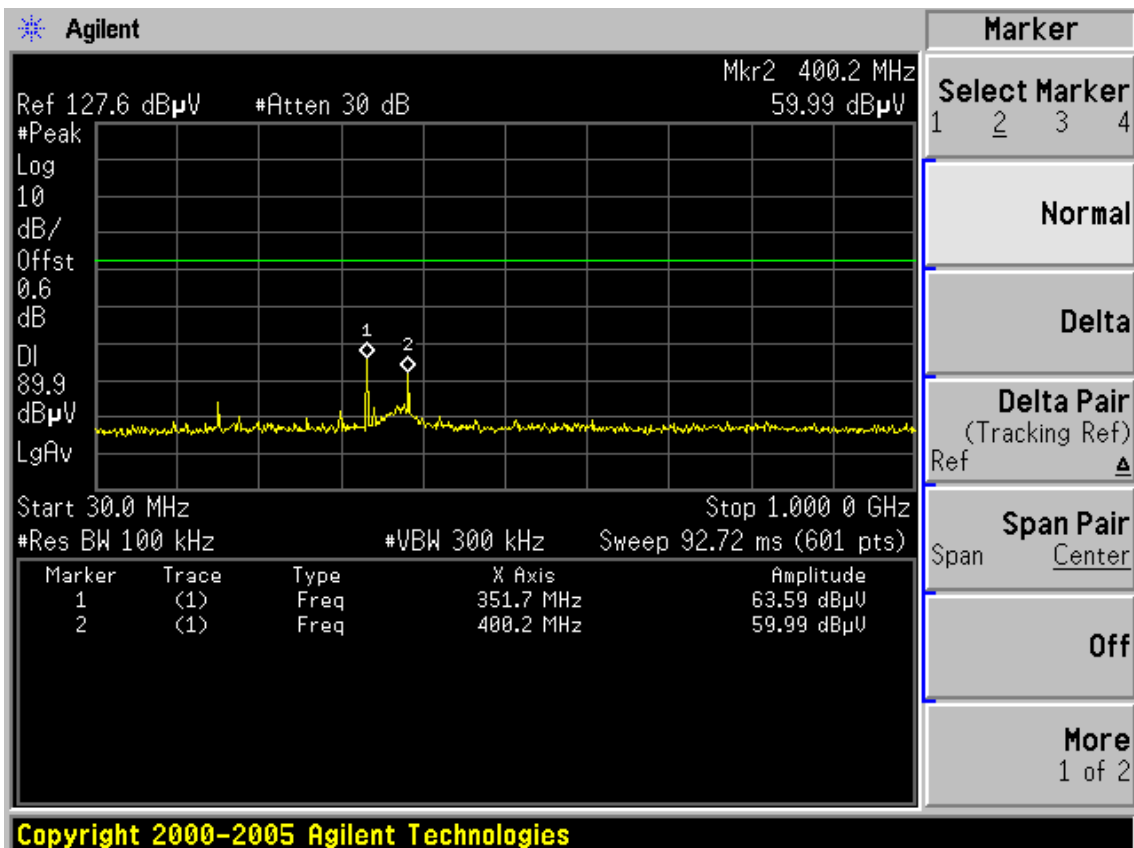
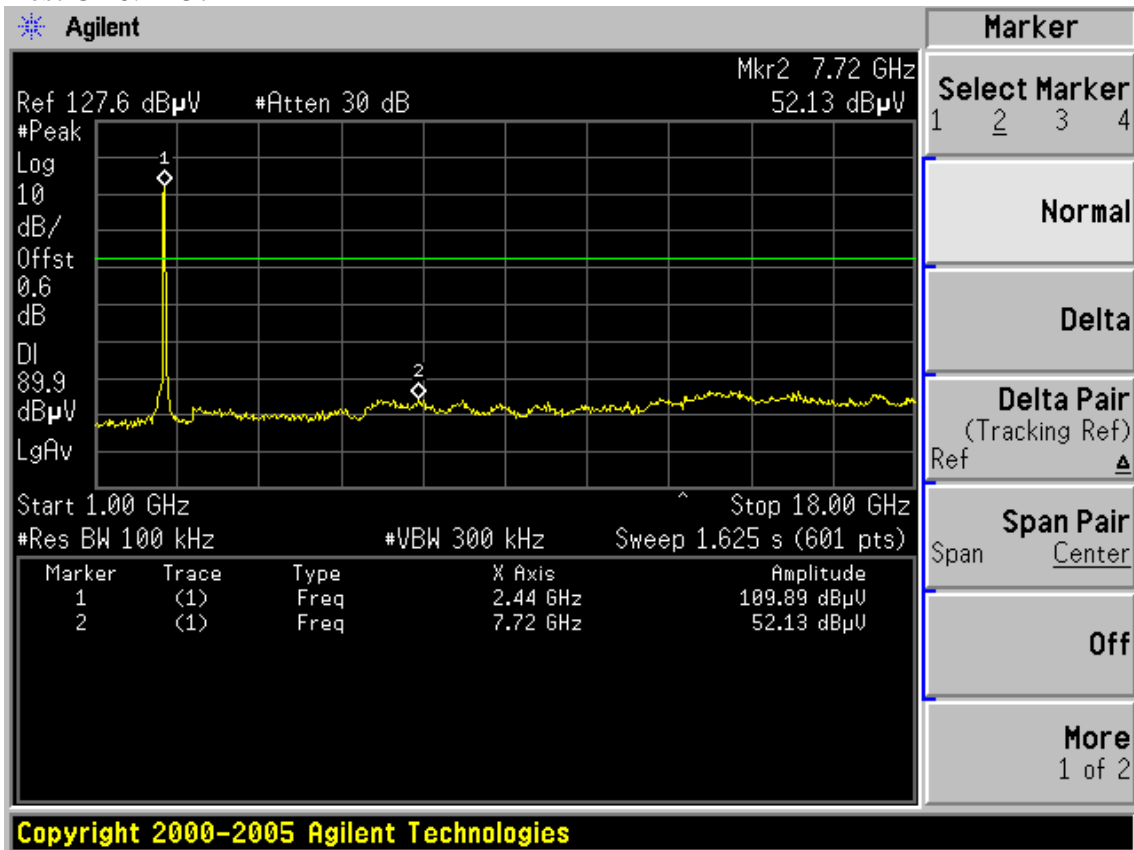


Test Mode: IEEE 802.11n HT20 TX

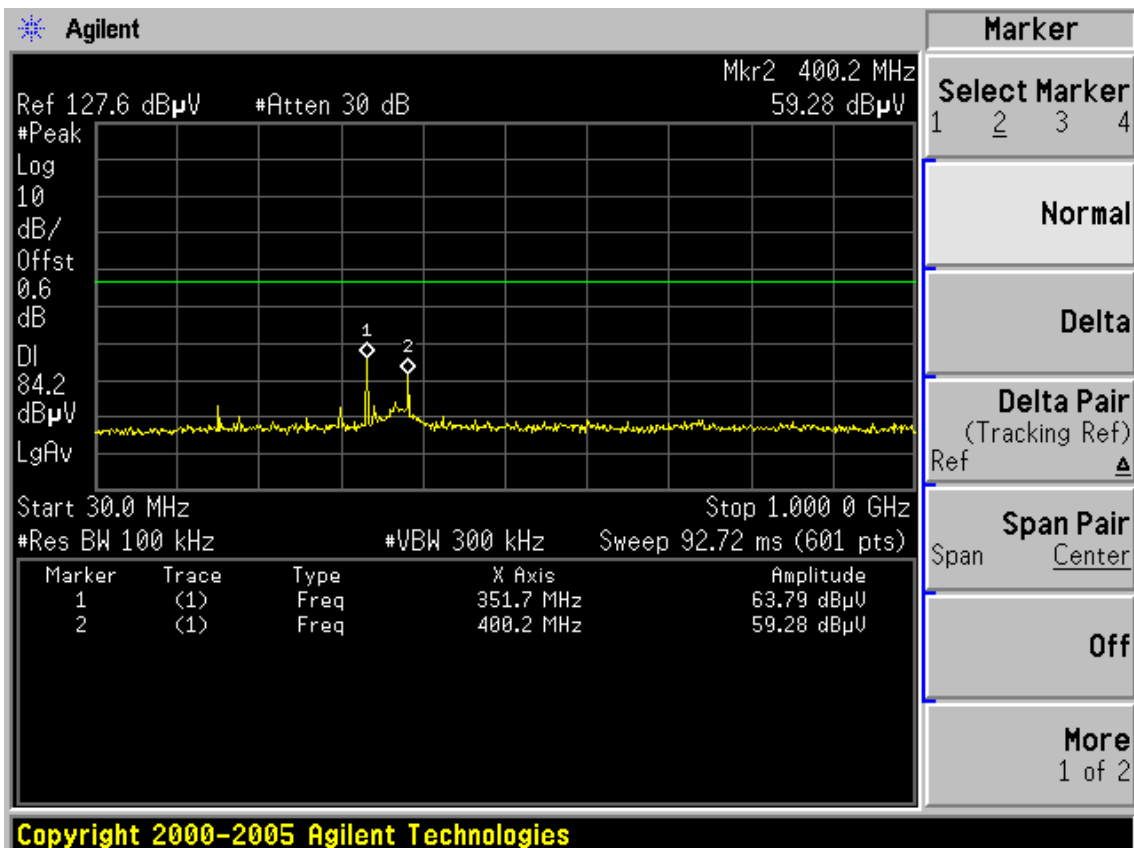
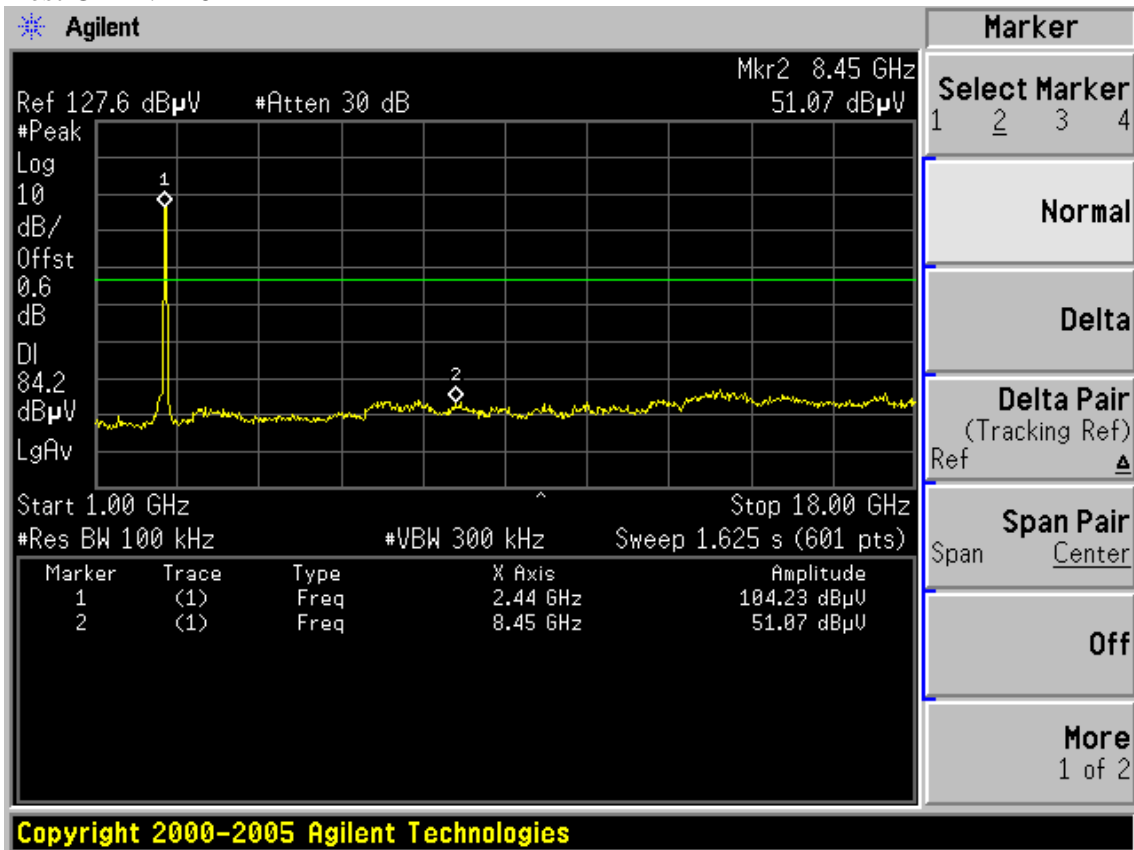
Test CH1: 2412MHz



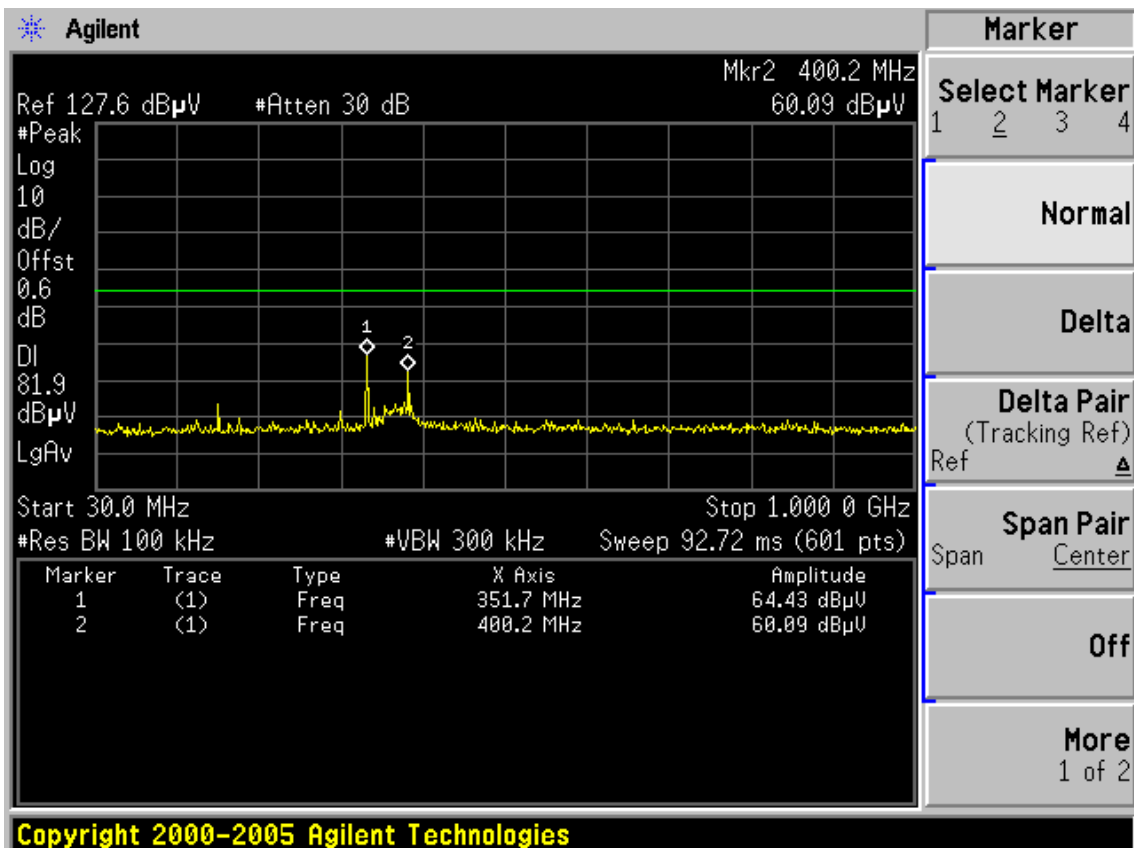
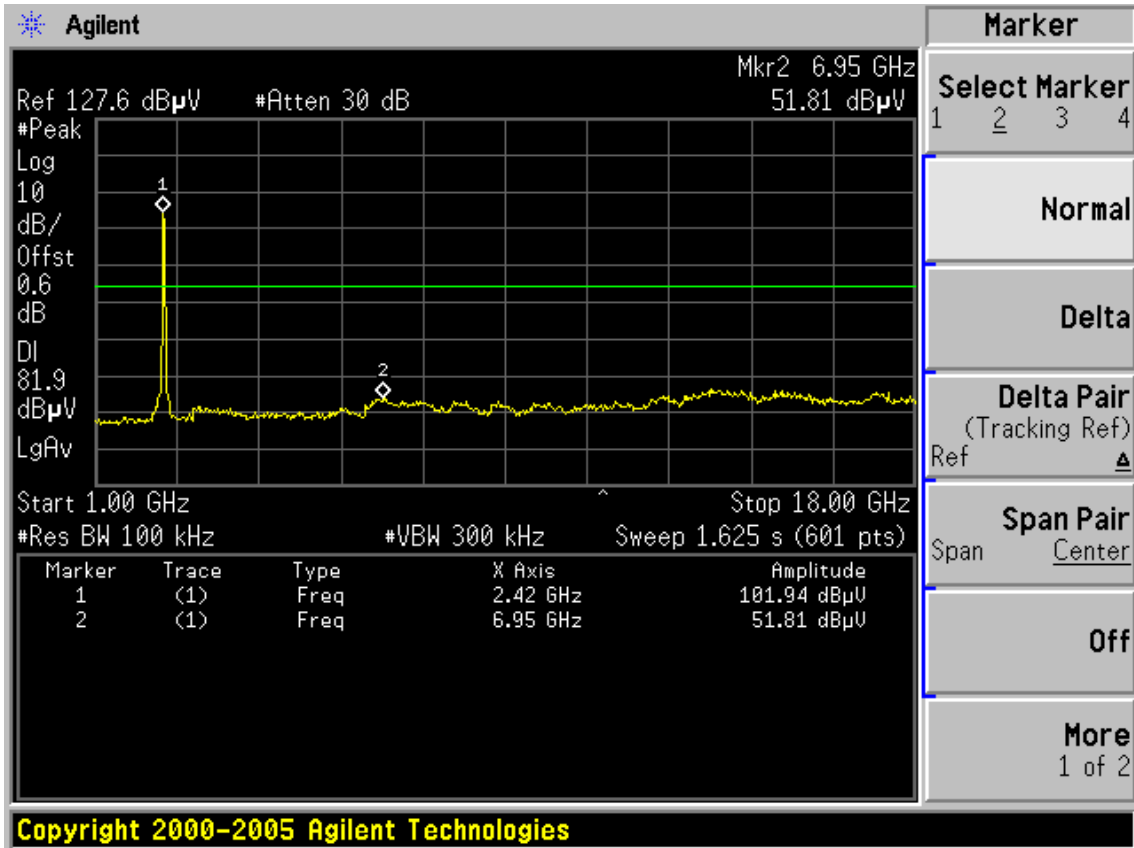
Test CH6: 2437MHz



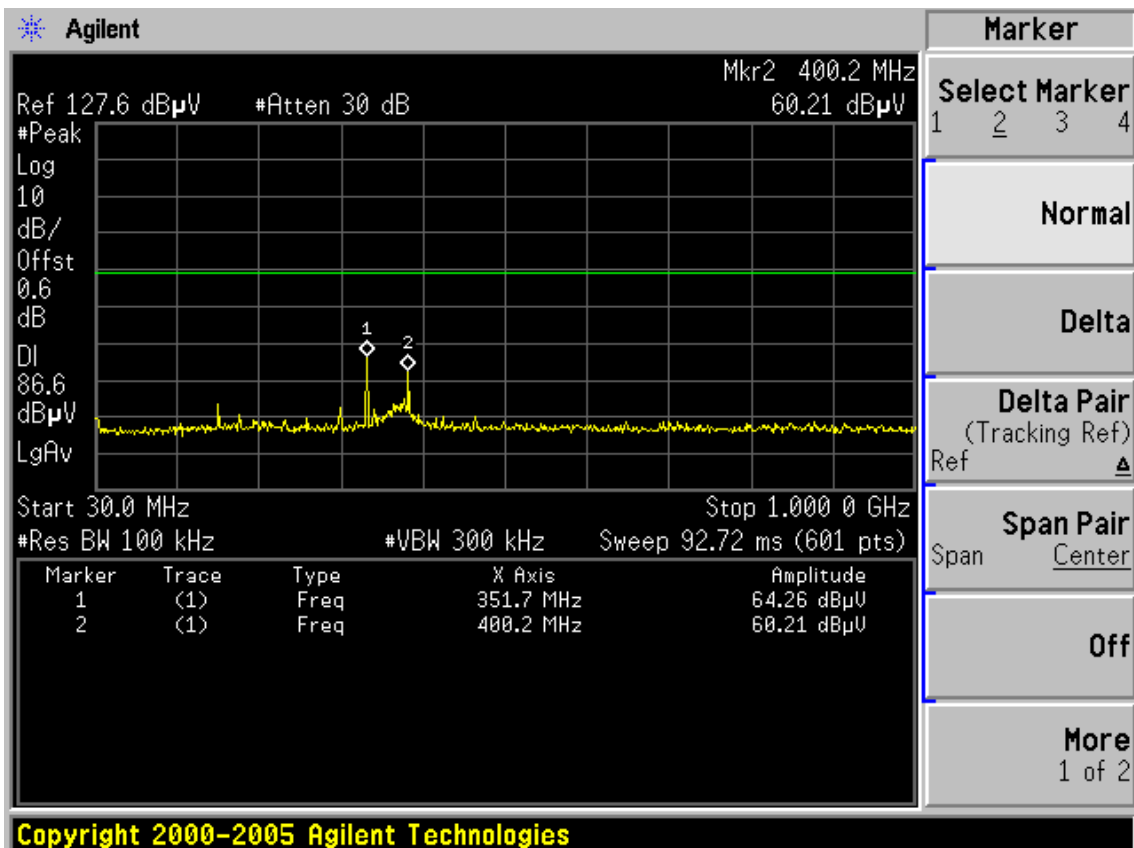
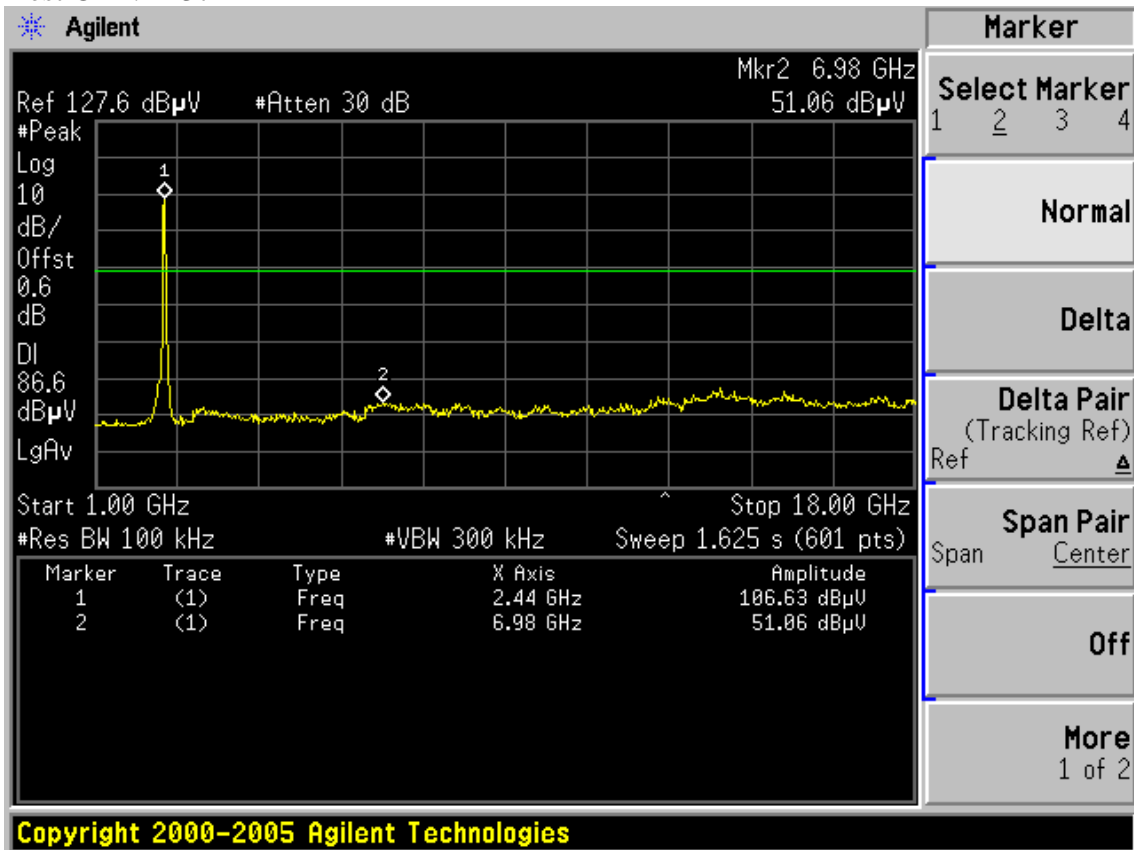
Test CH11: 2462MHz



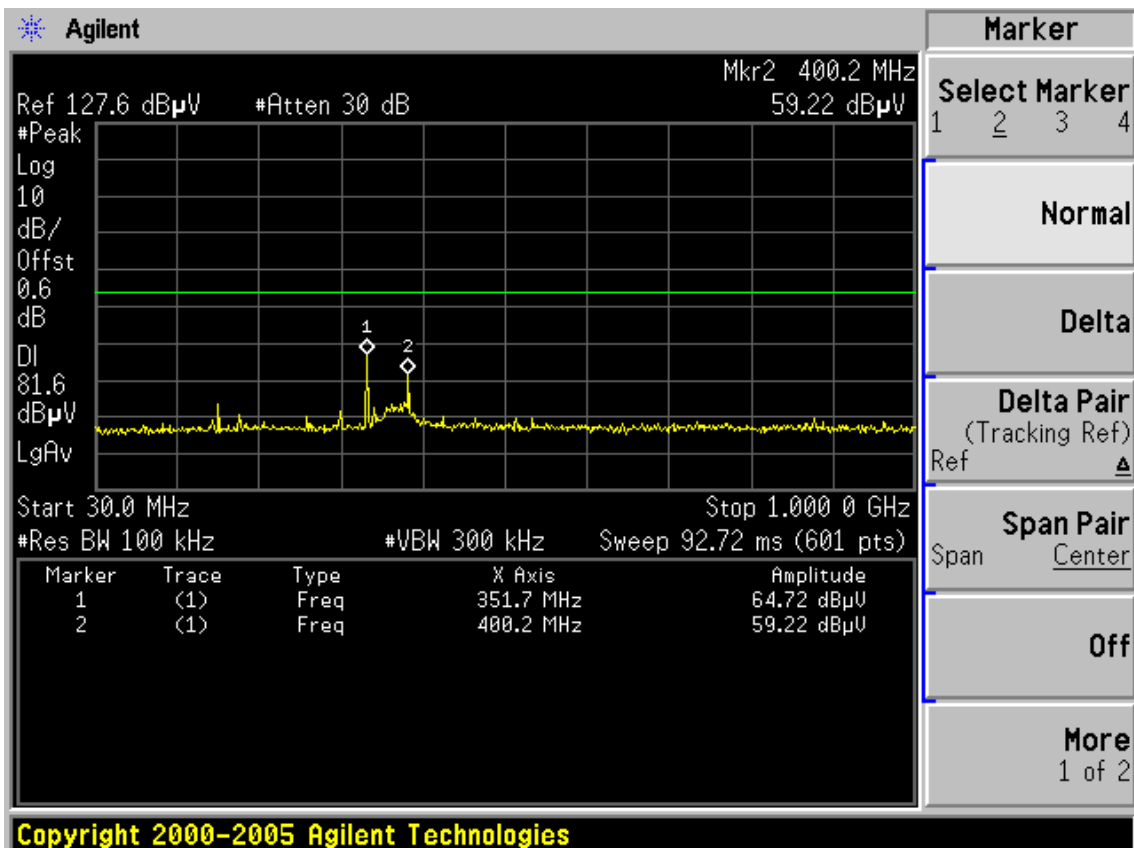
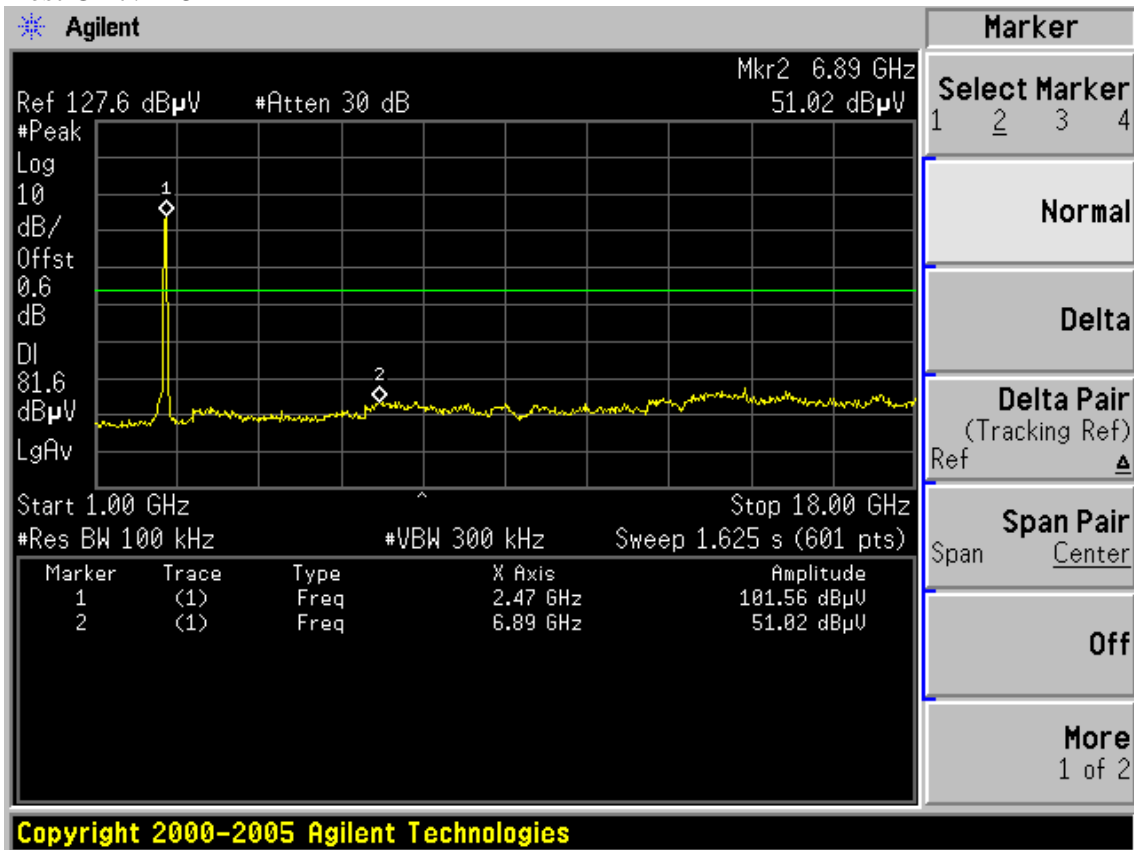
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



Test CH4: 2437MHz



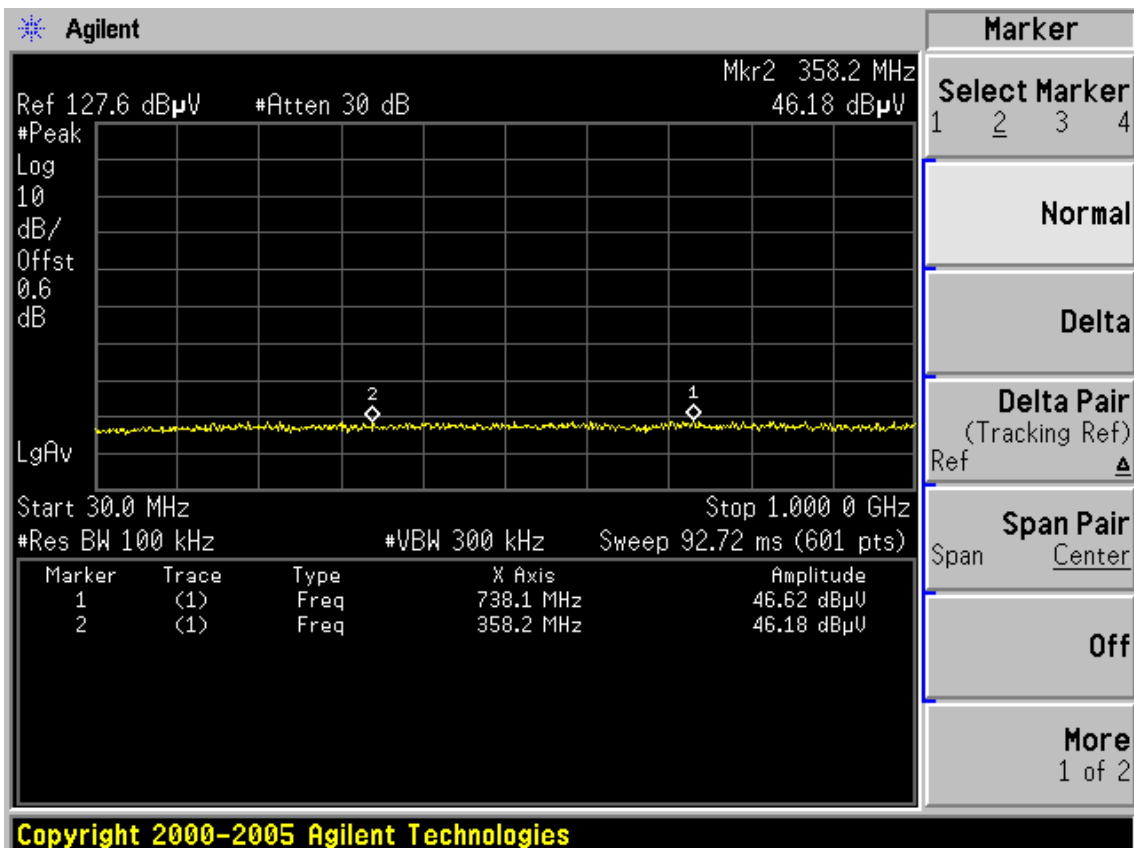
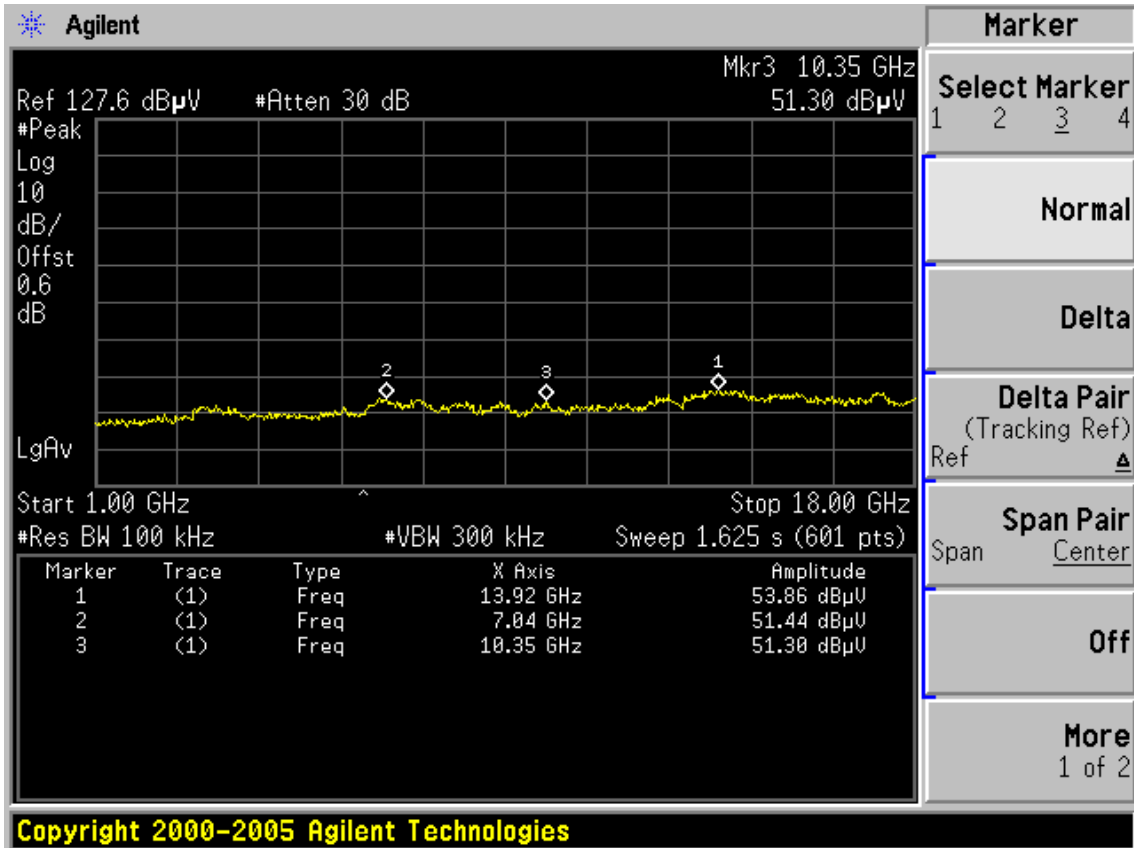
Test CH7: 2452MHz



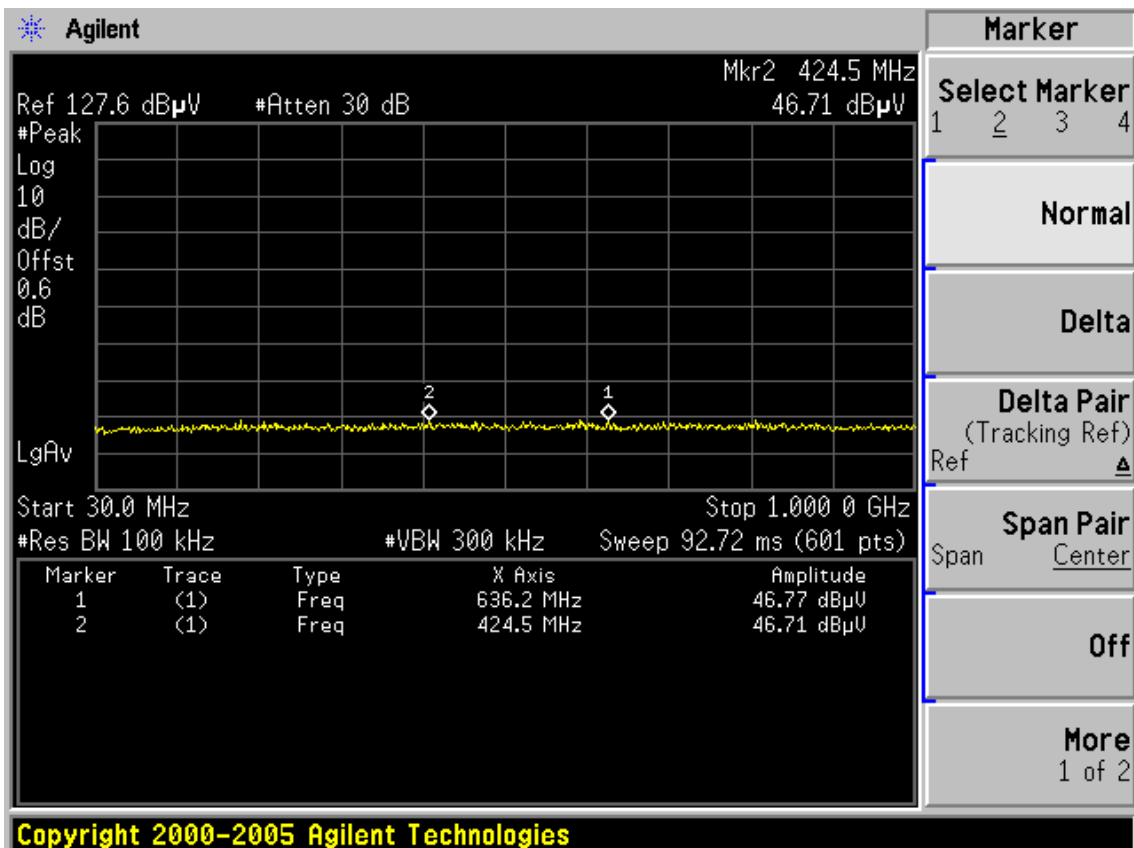
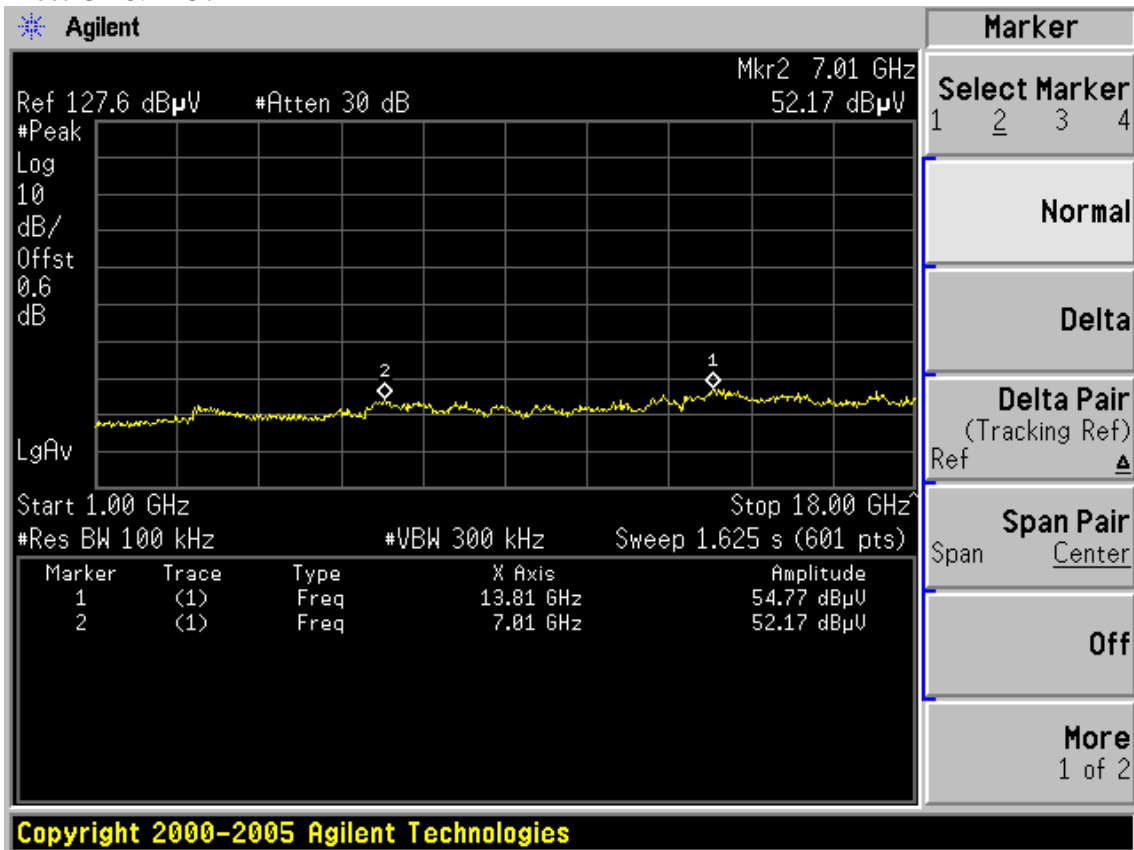
Chain 3:

Test Mode: IEEE 802.11b / IEEE 802.11g / IEEE 802.11n HT20 TX

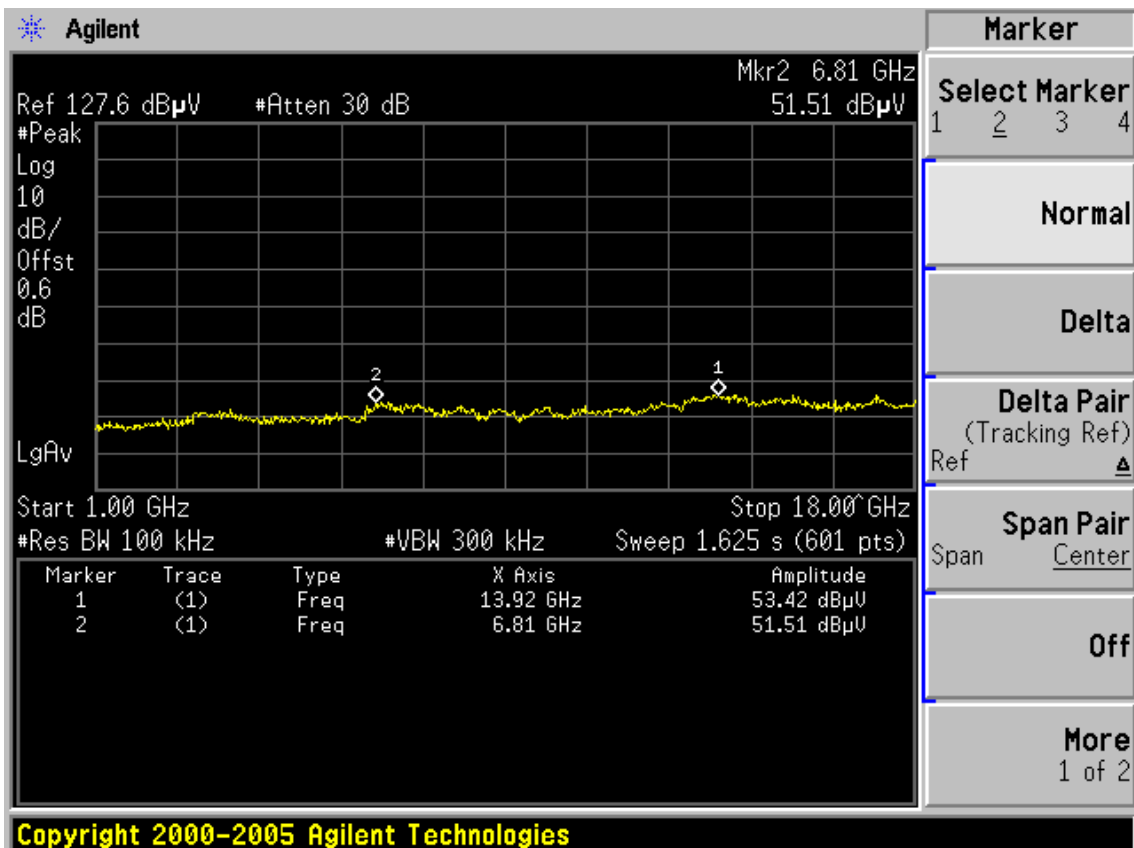
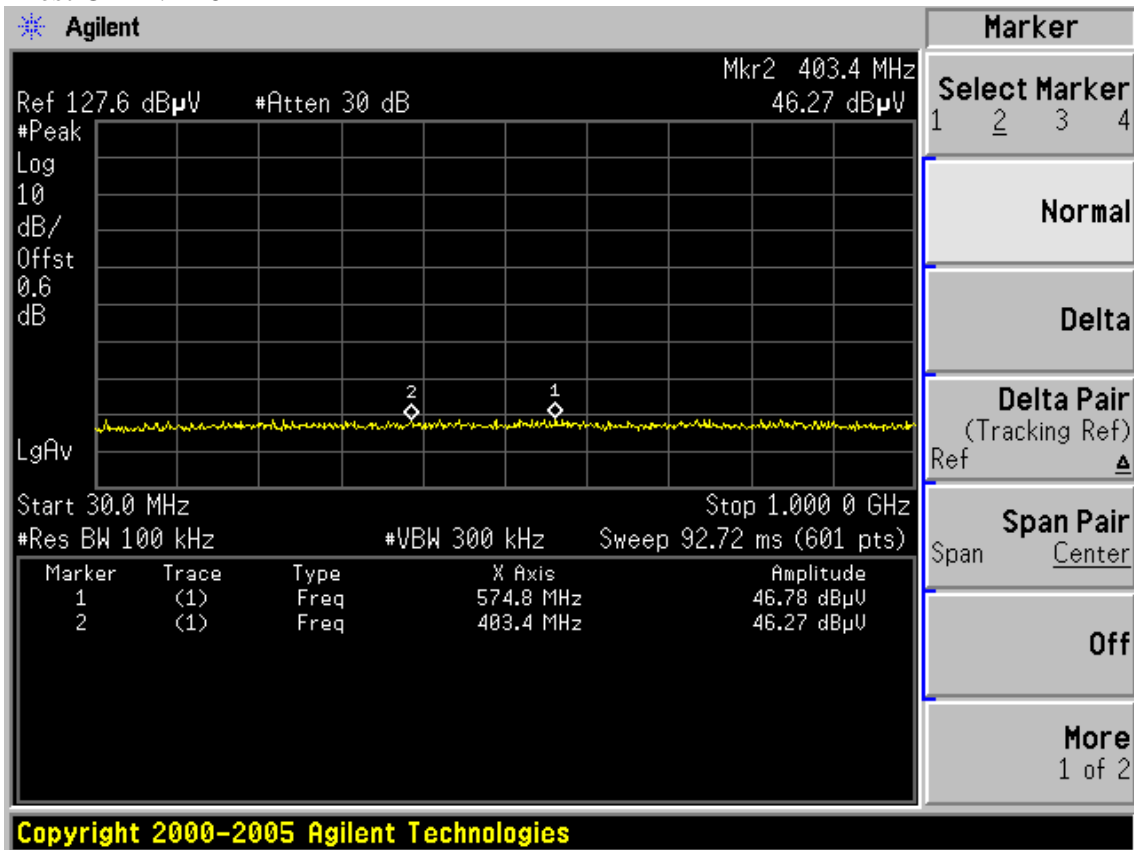
Test CH1: 2412MHz



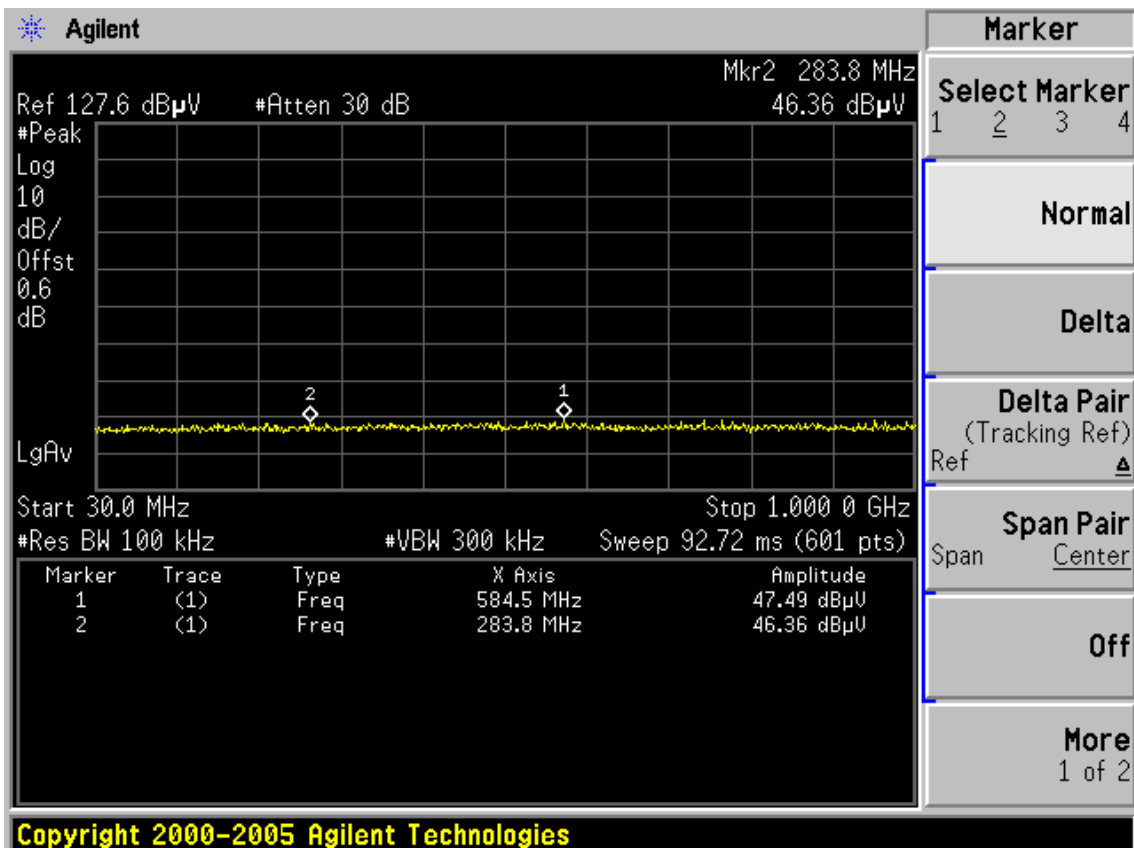
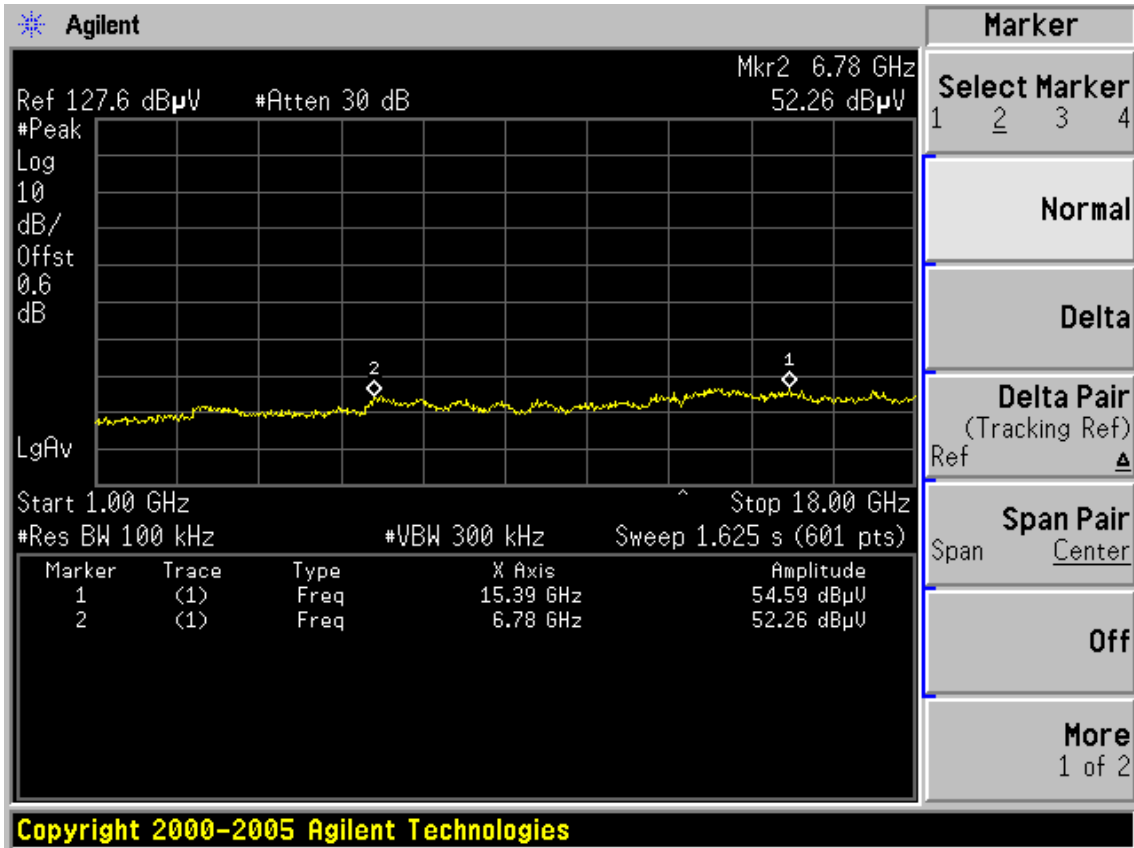
Test CH6: 2437MHz



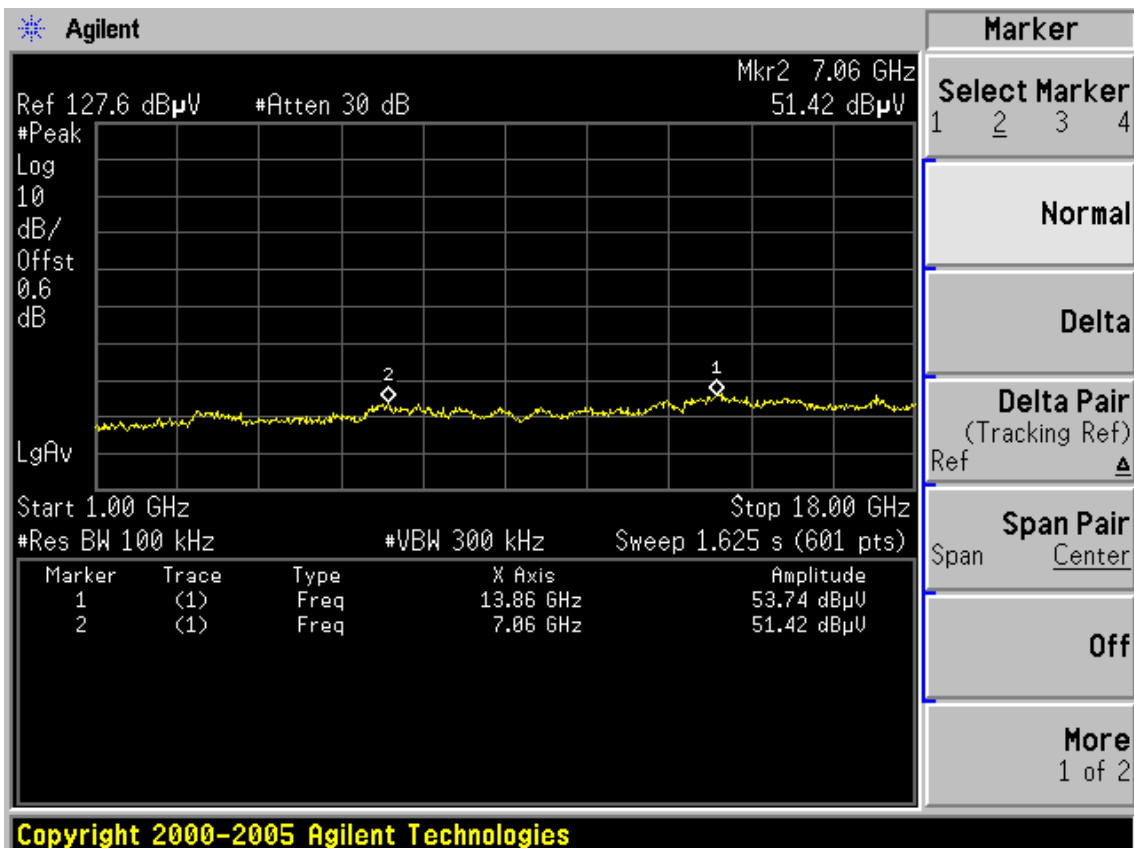
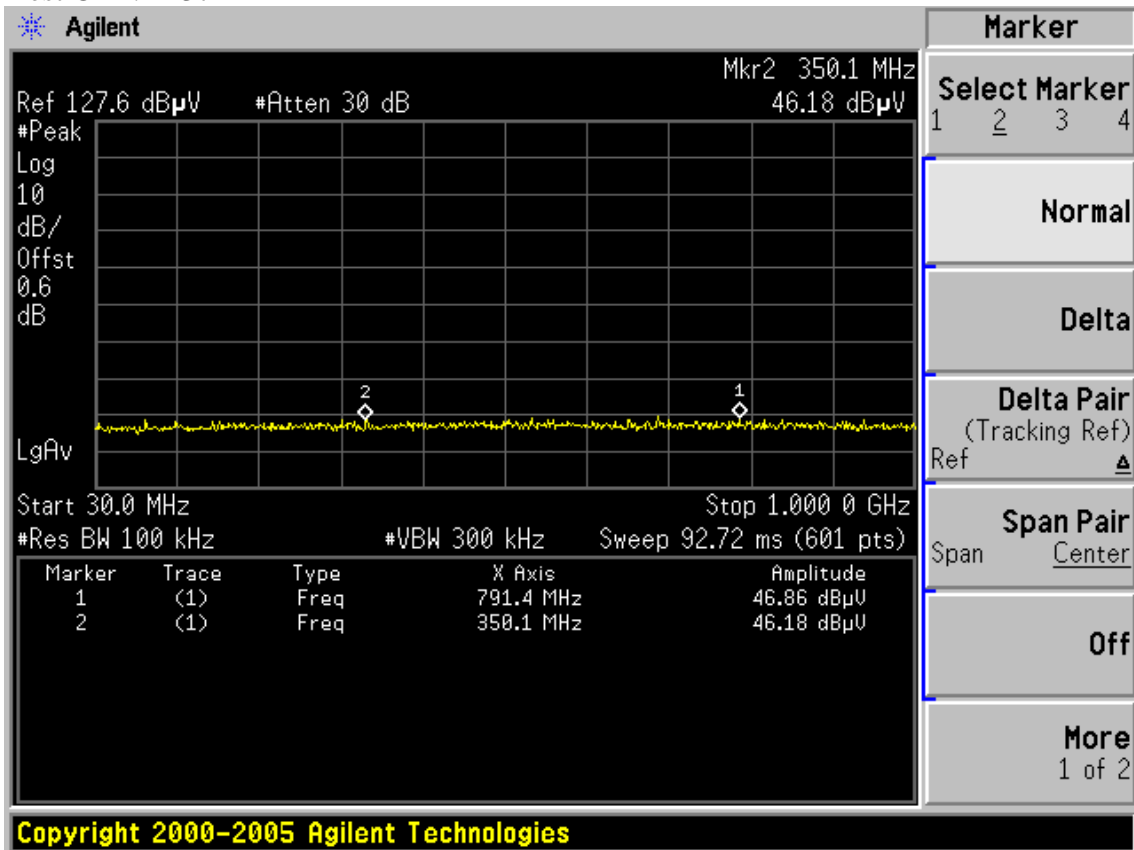
Test CH11: 2462MHz



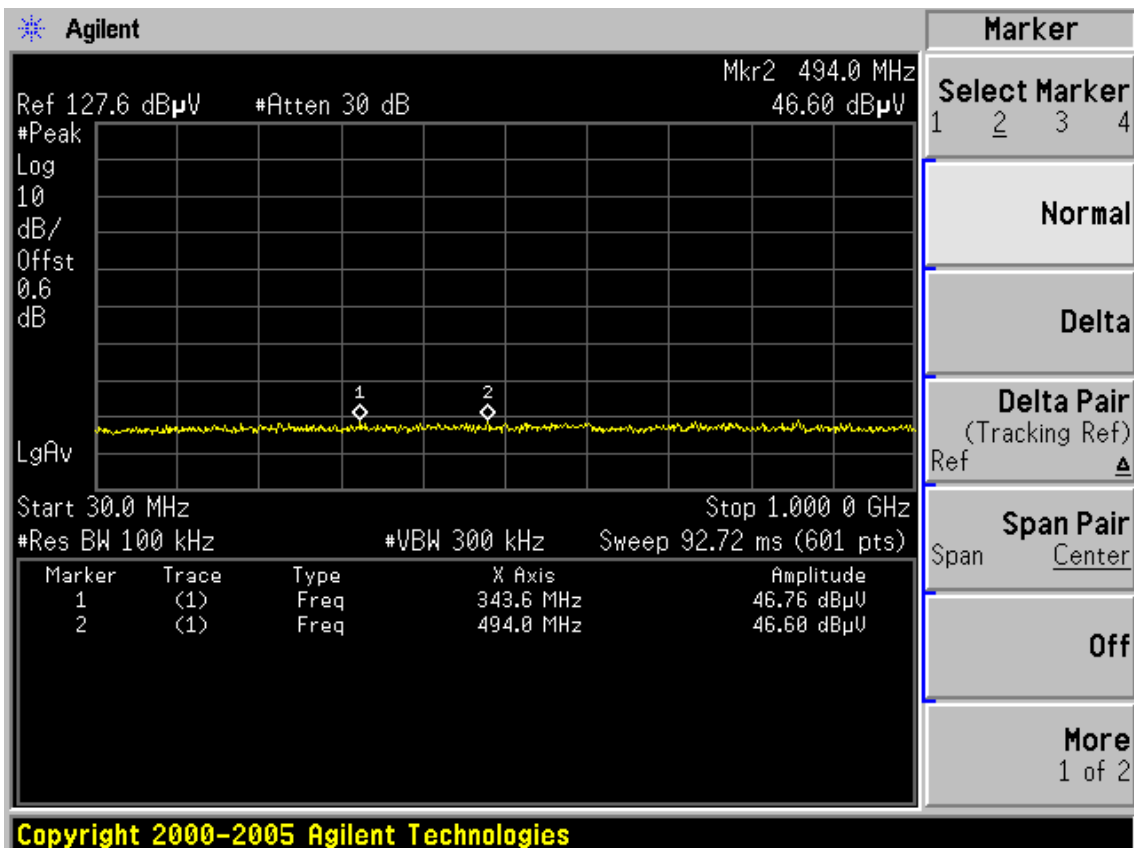
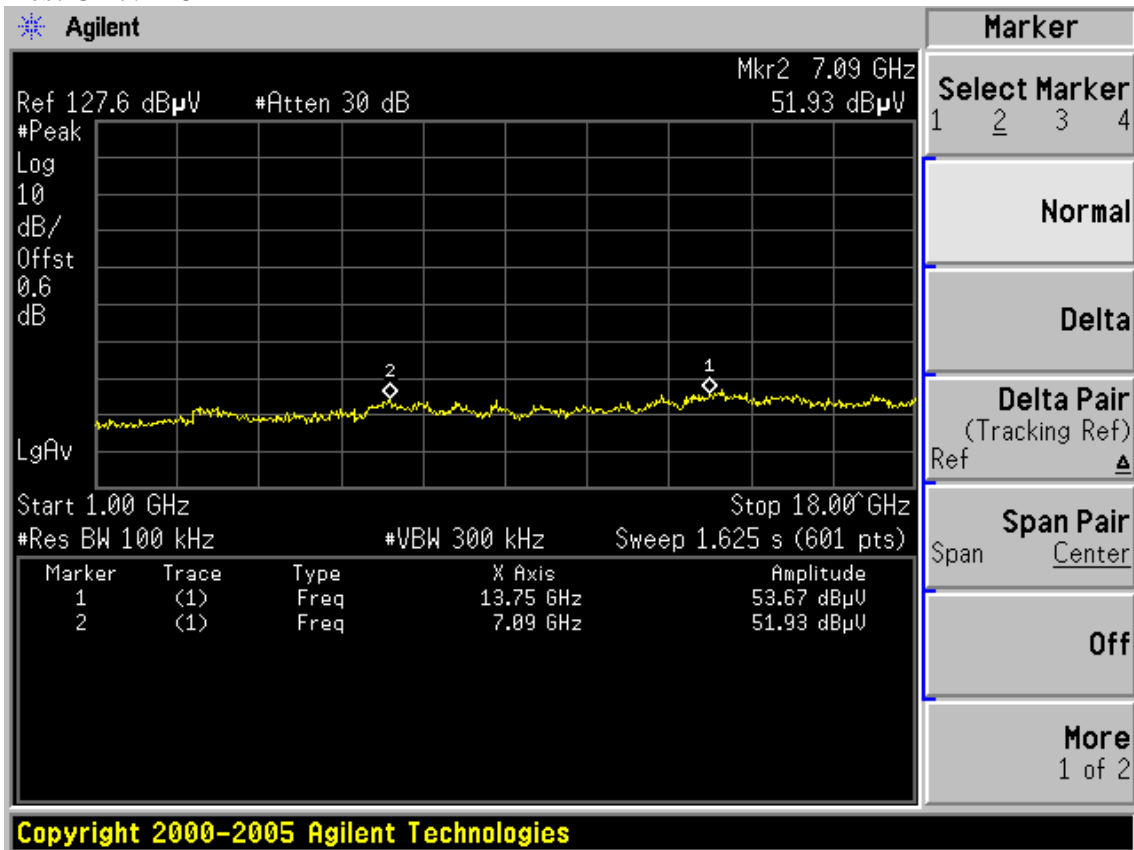
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz

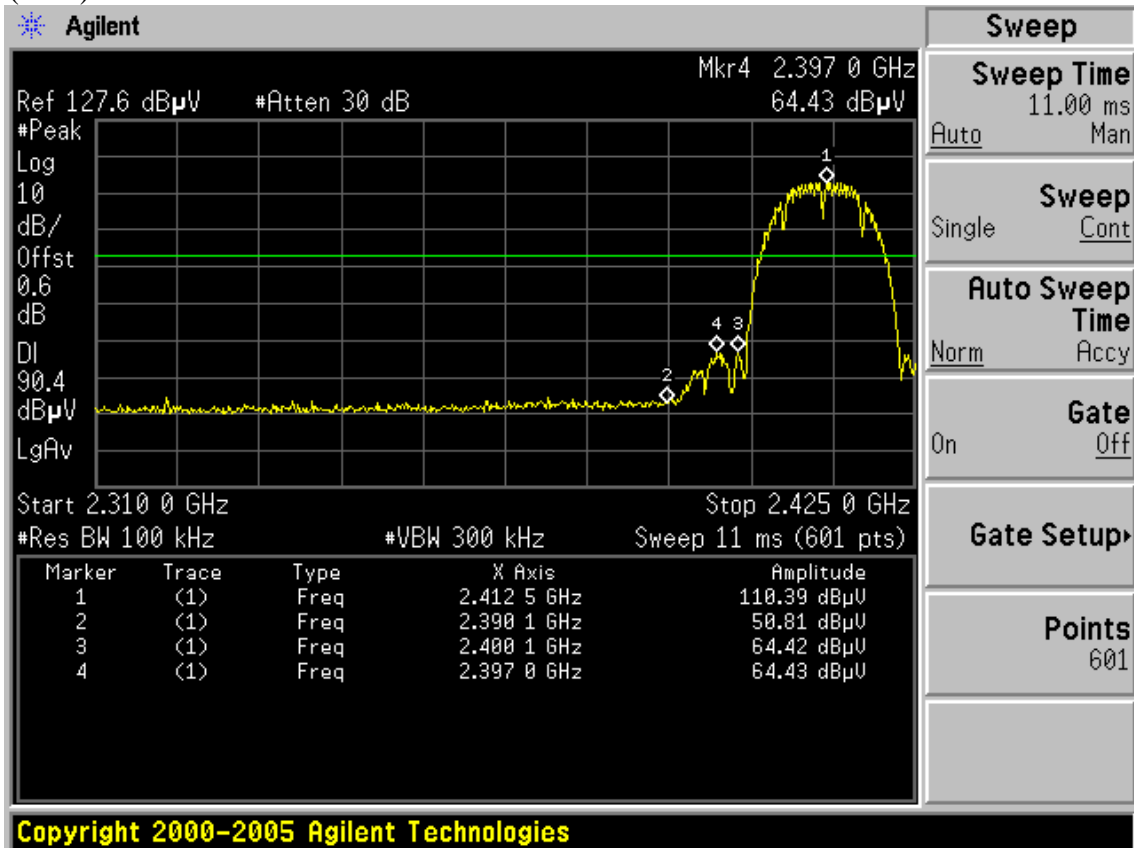


Conducted emission test data:

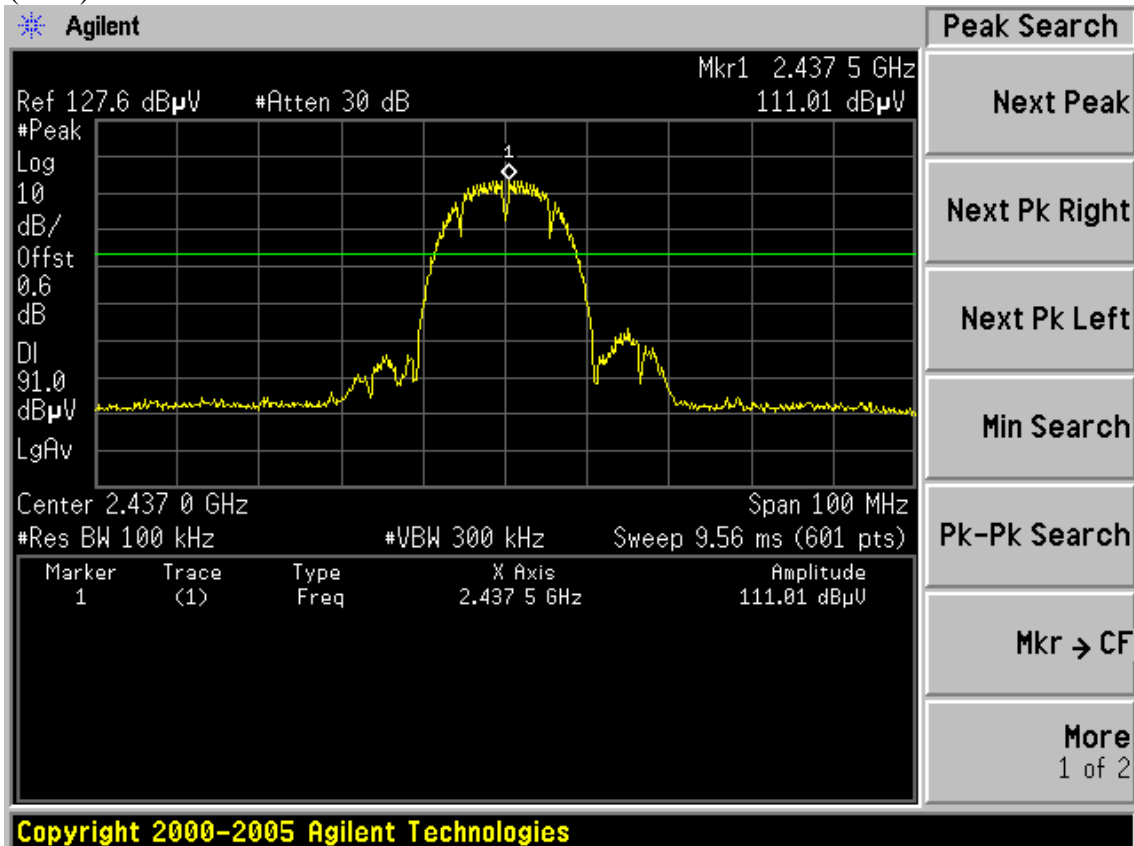
Chain 1:

Test mode: IEEE 802.11b TX

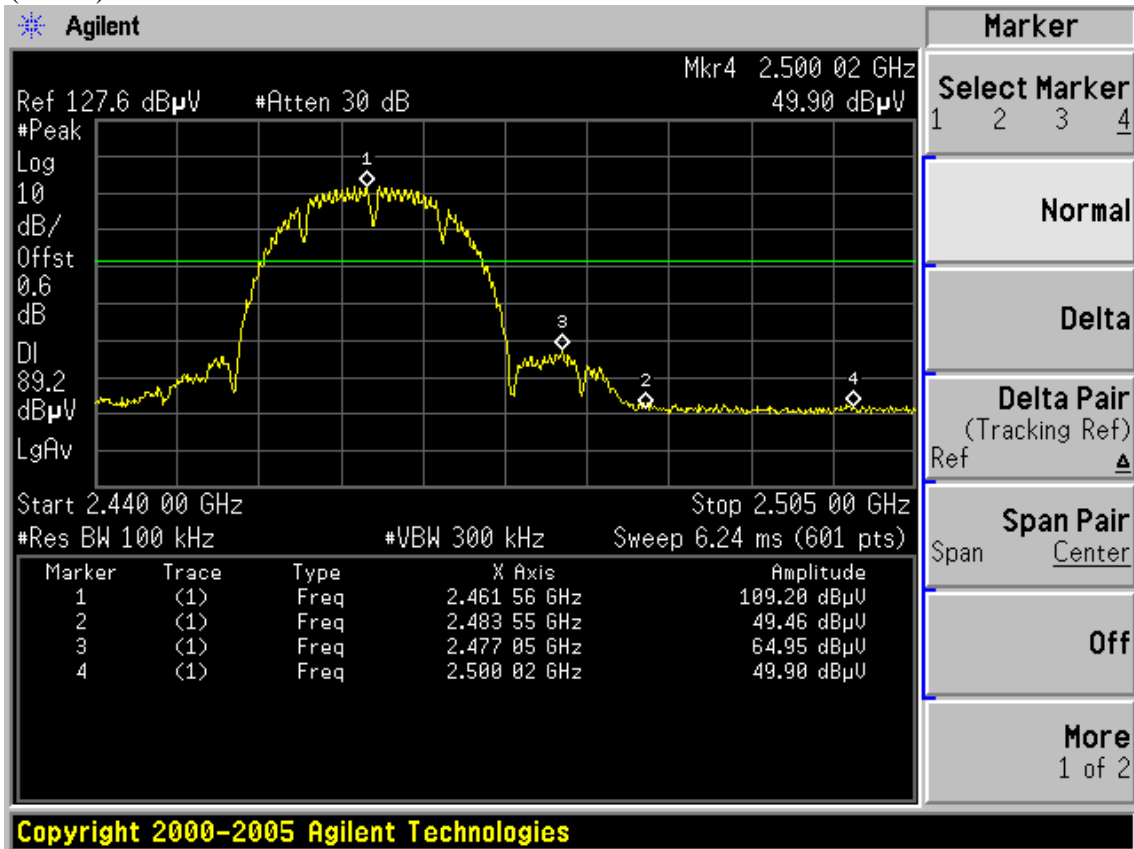
(CH1)



(CH6)

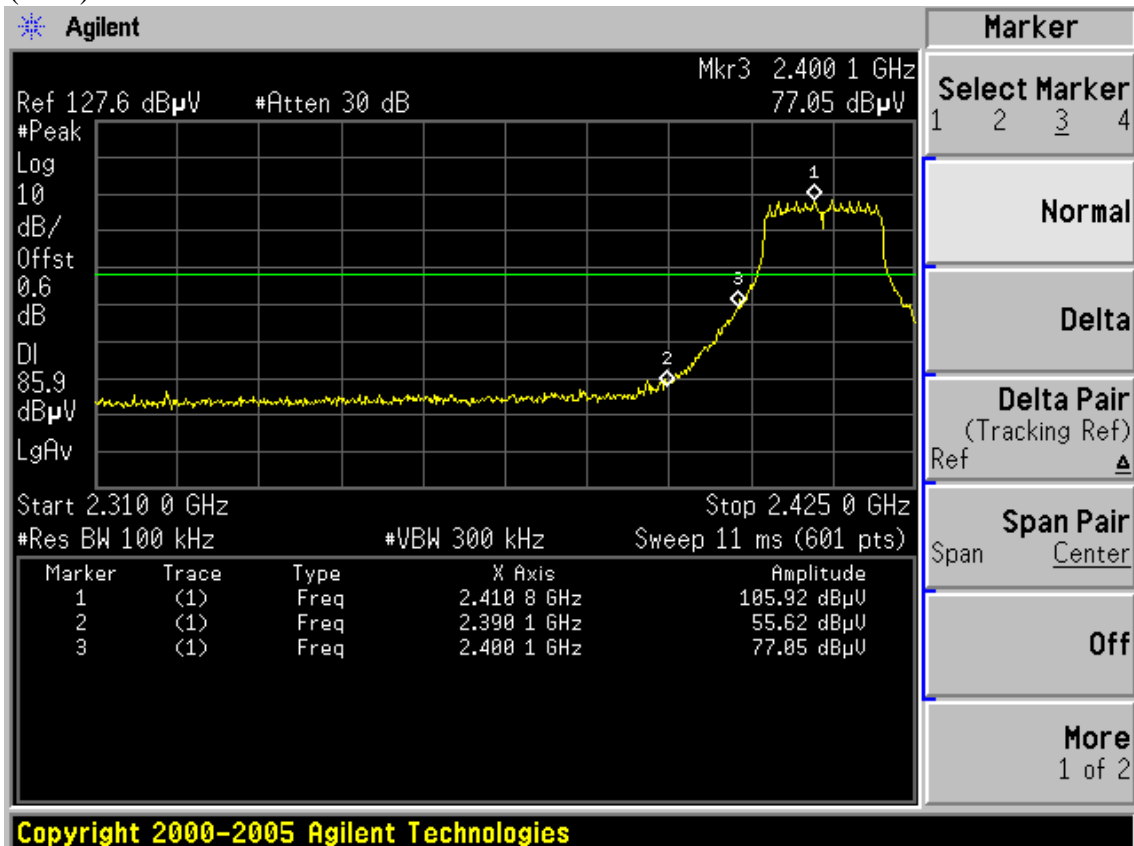


(CH11)

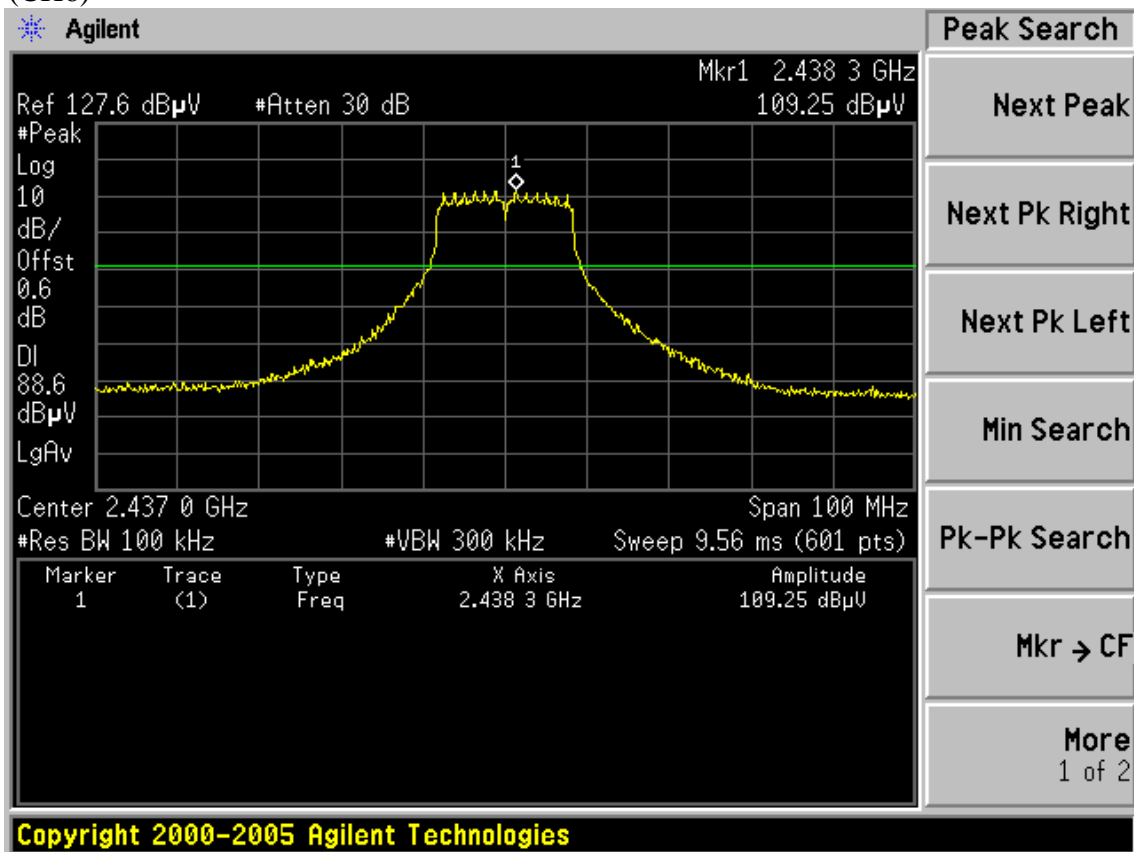


Test mode: IEEE 802.11g TX

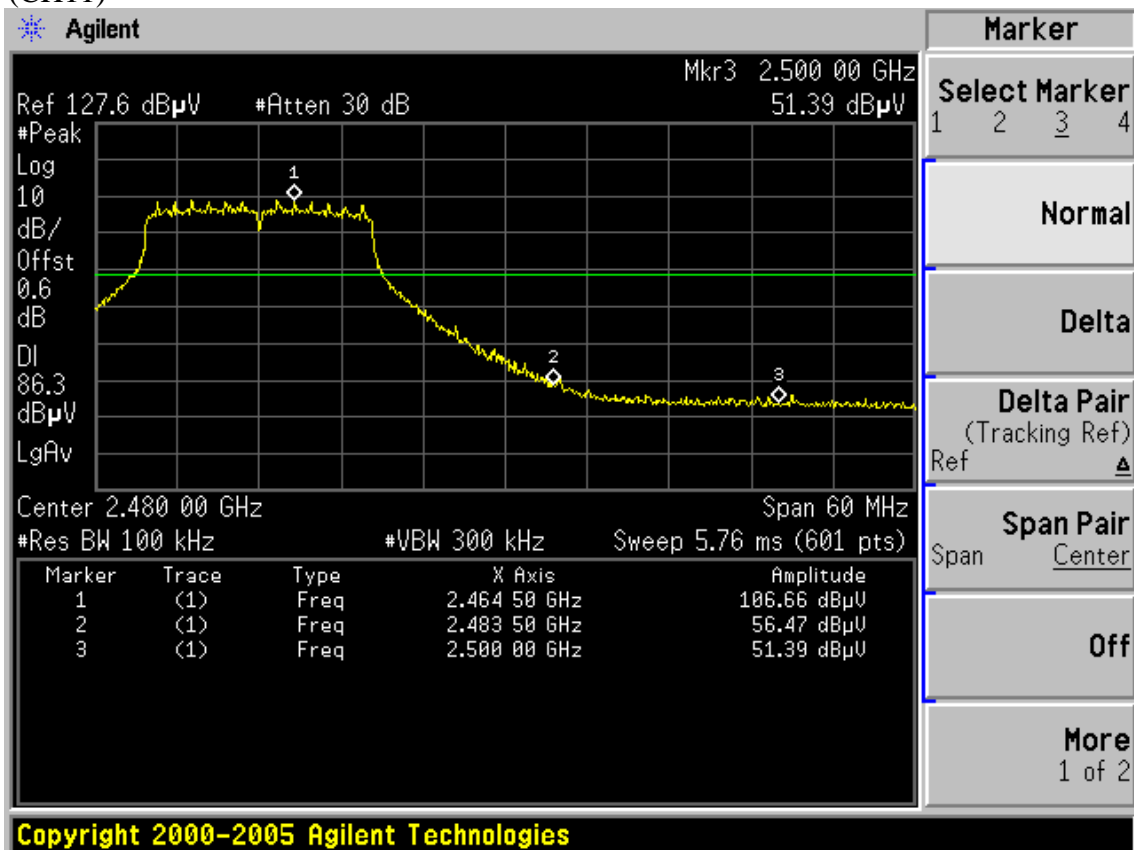
(CH1)



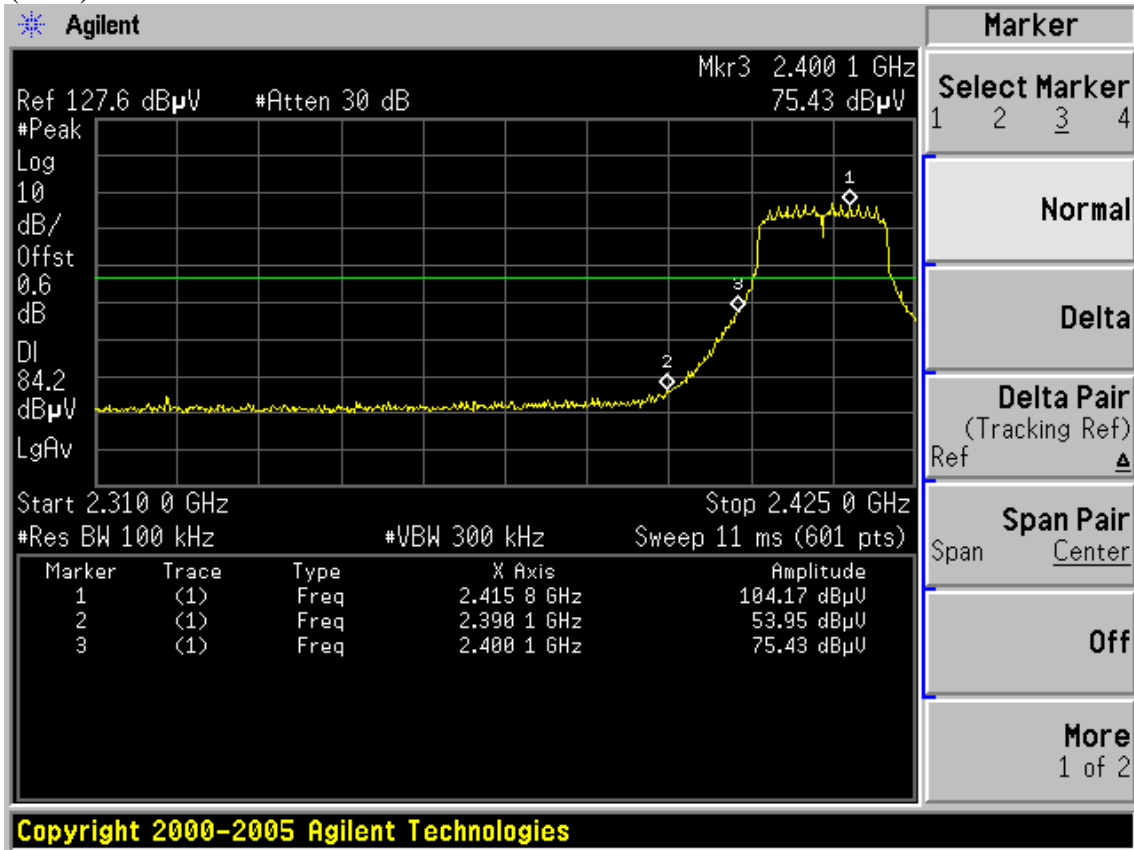
(CH6)



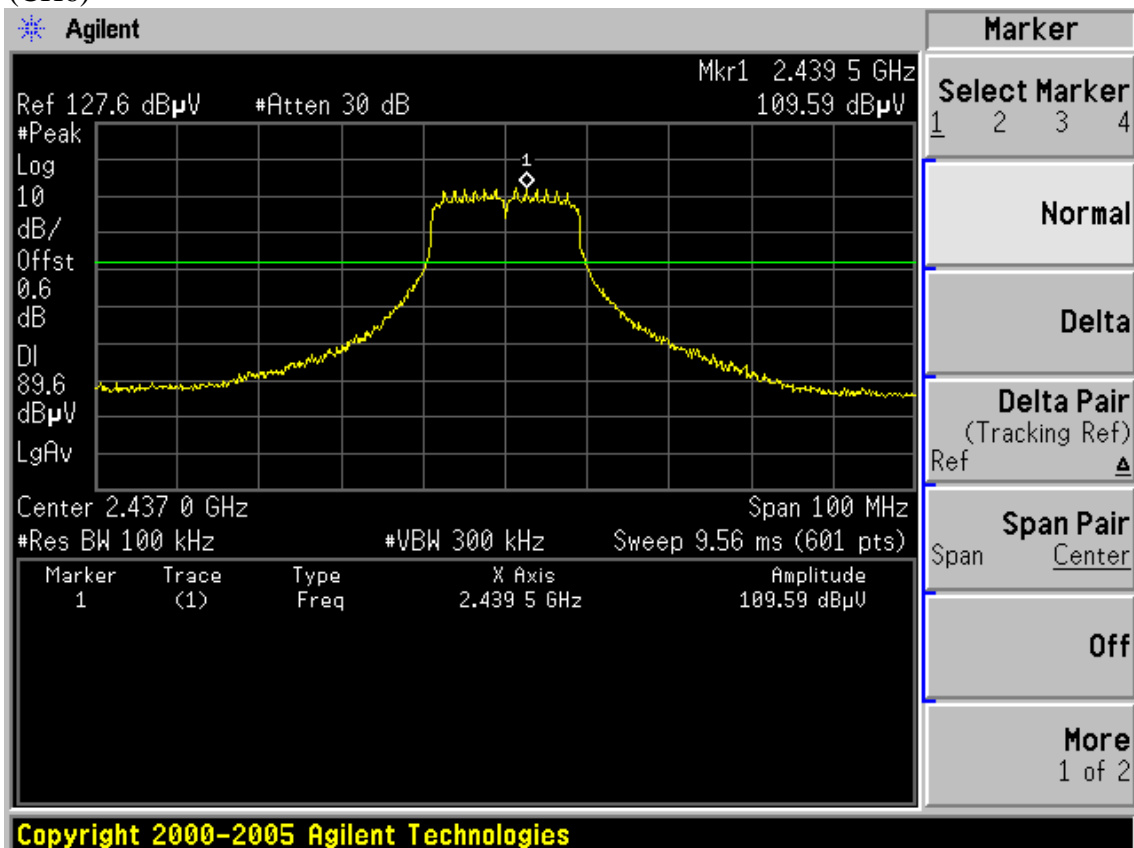
(CH11)



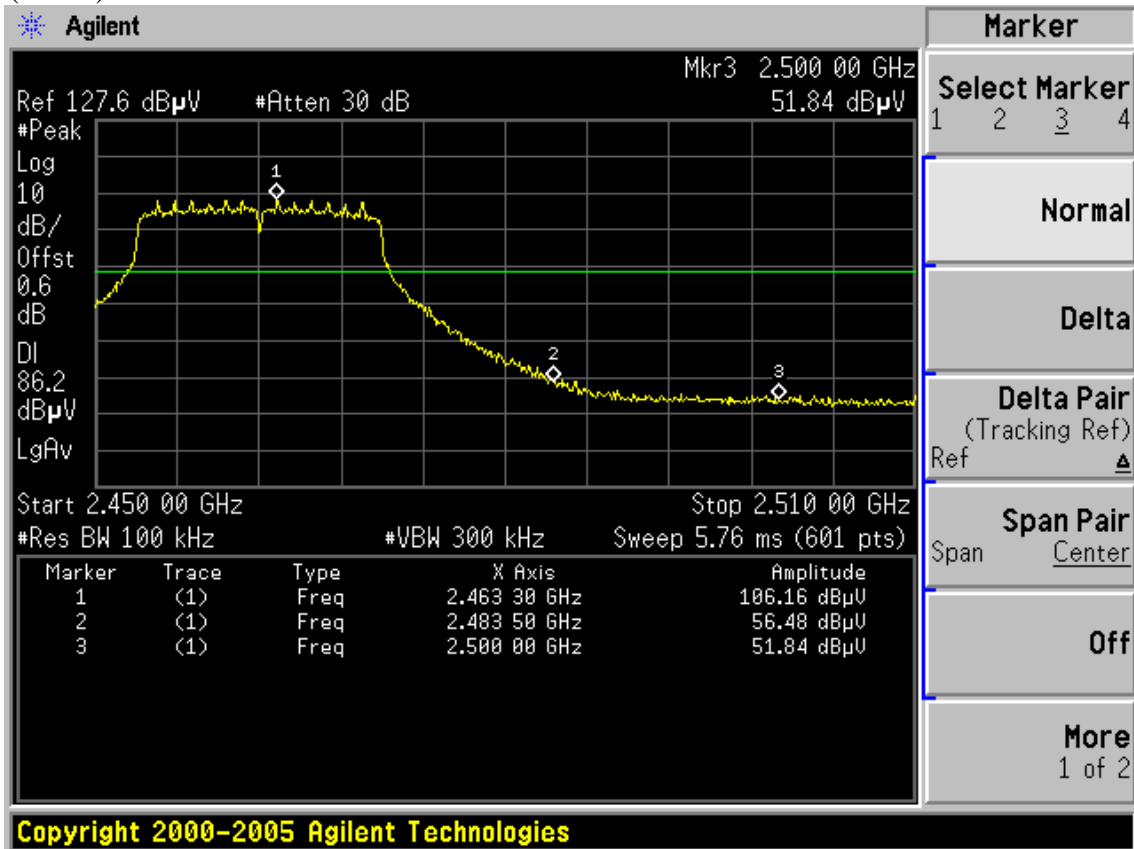
Test mode: IEEE 802.11n HT20 TX
(CH1)



(CH6)

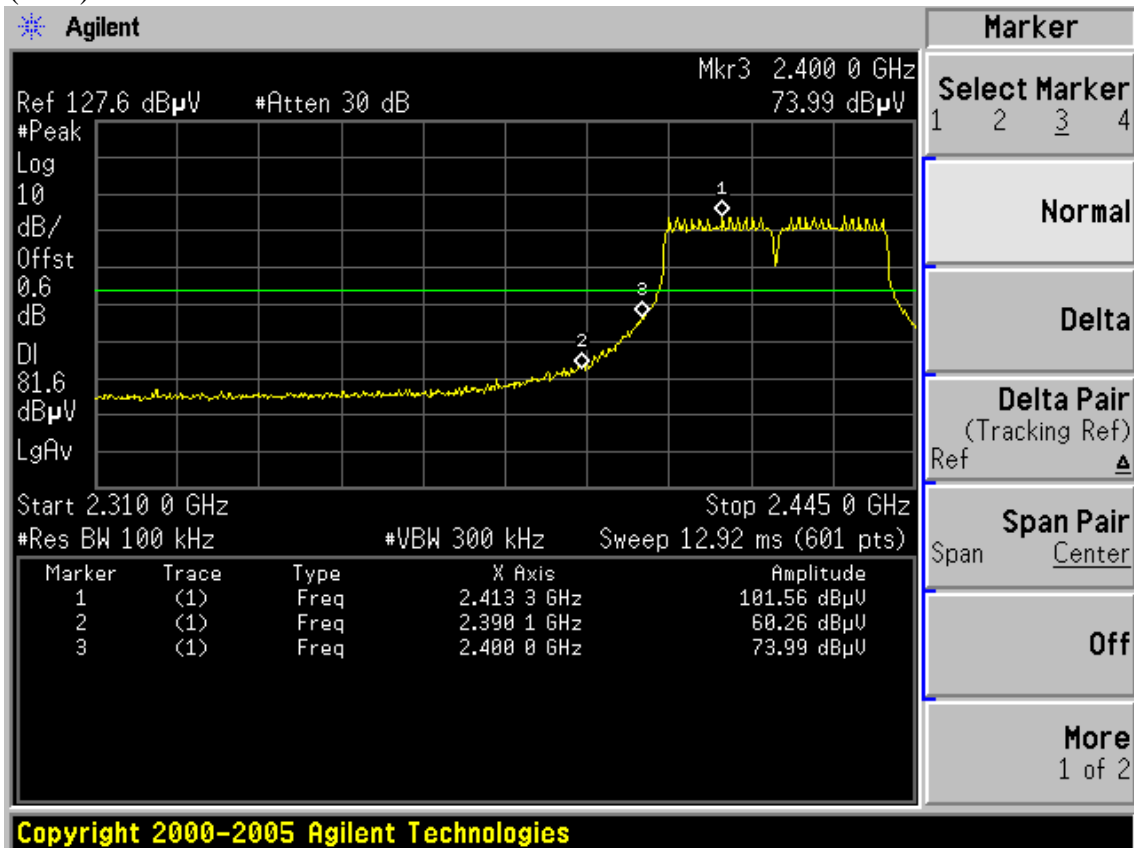


(CH11)

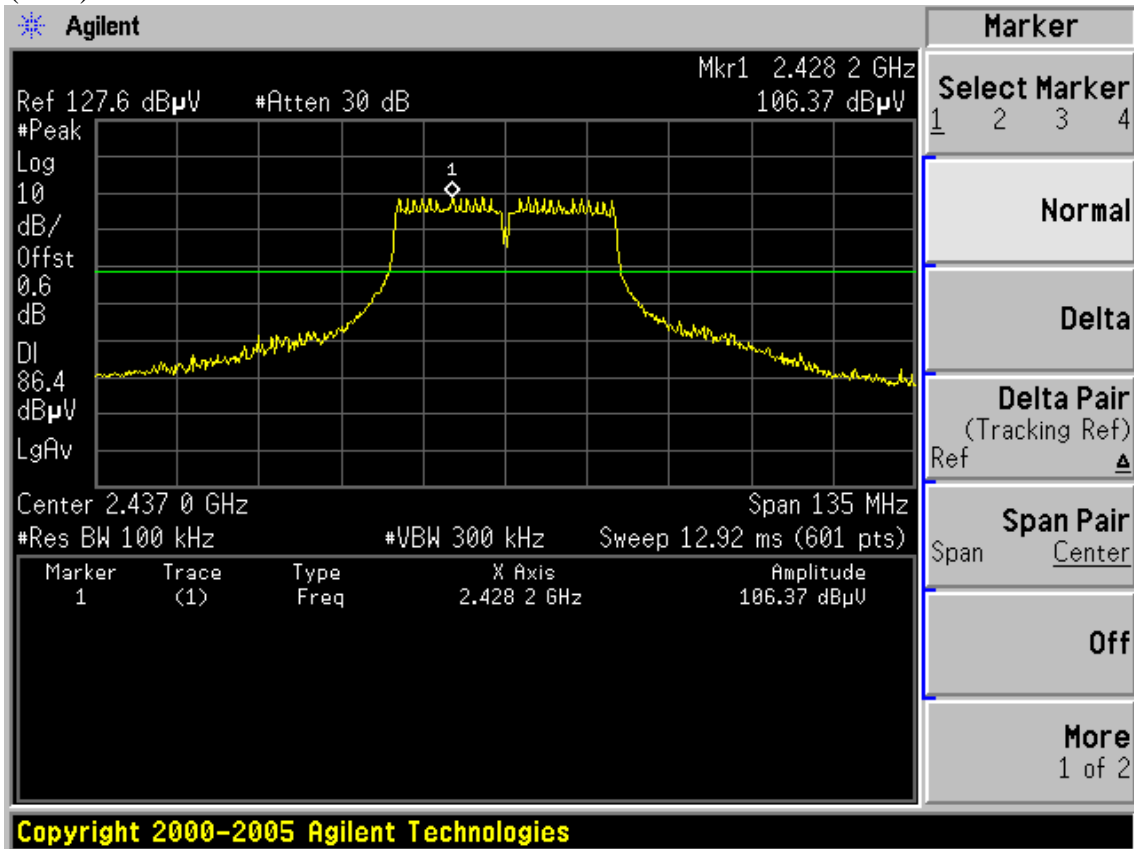


Test mode: IEEE 802.11n HT40 TX

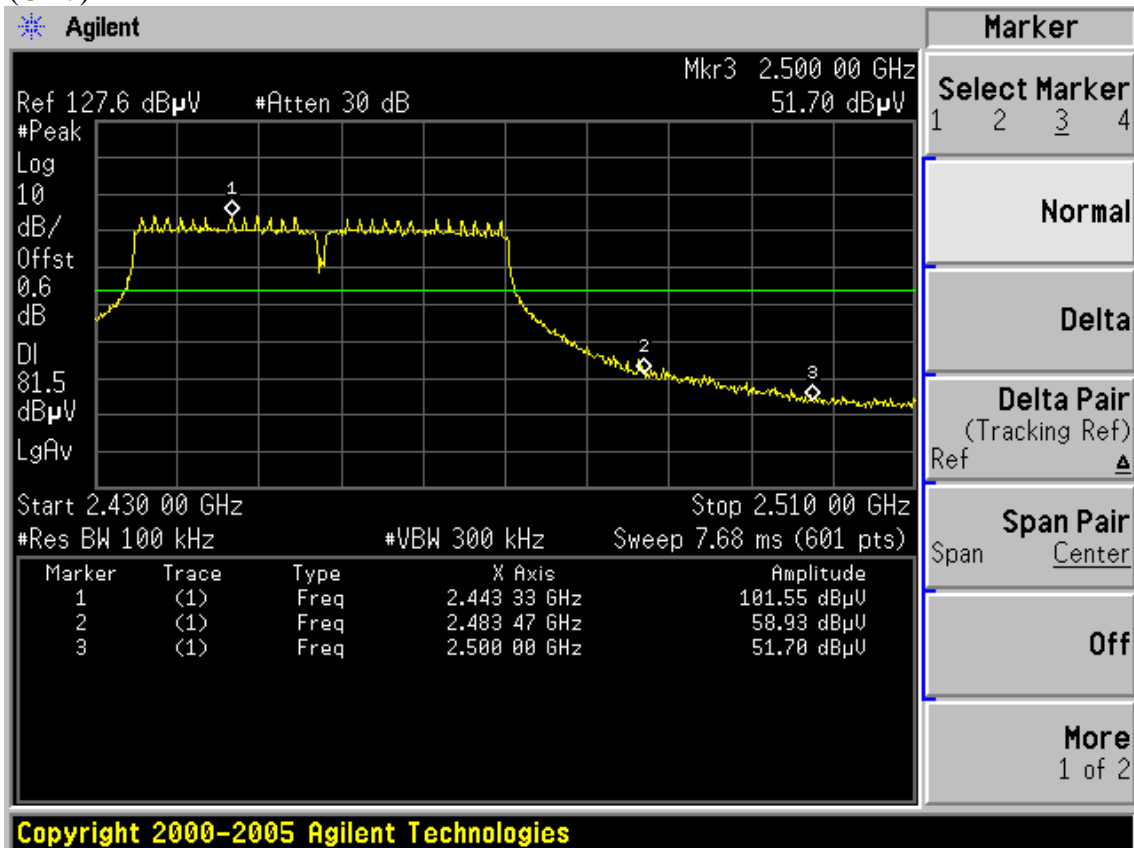
(CH1)



(CH4)

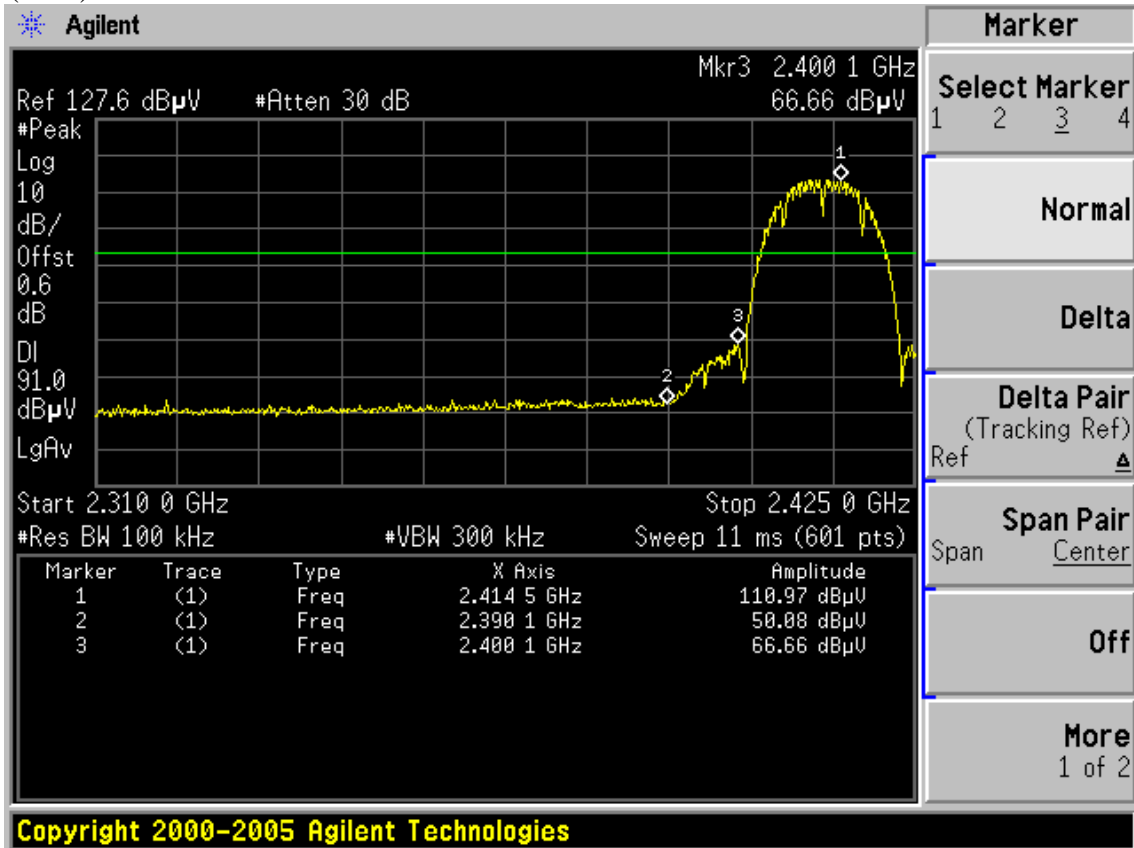


(CH7)

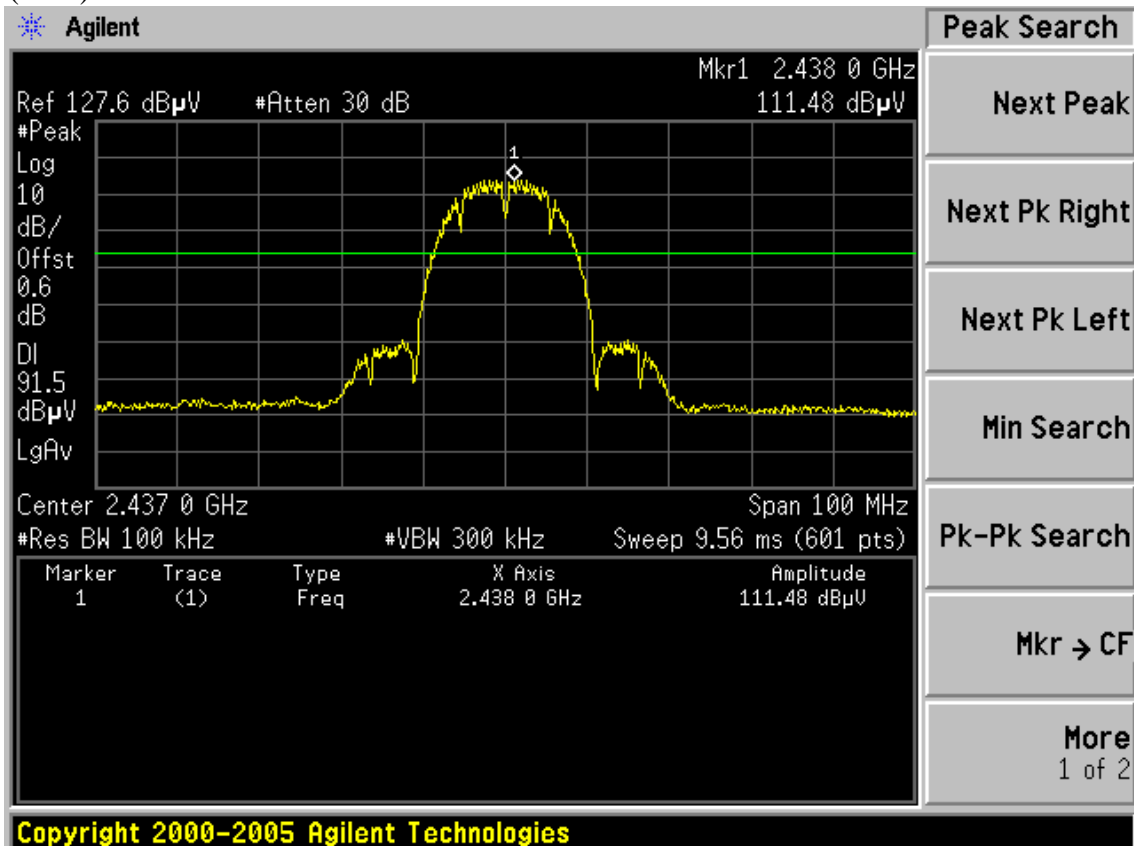


Chain 2:

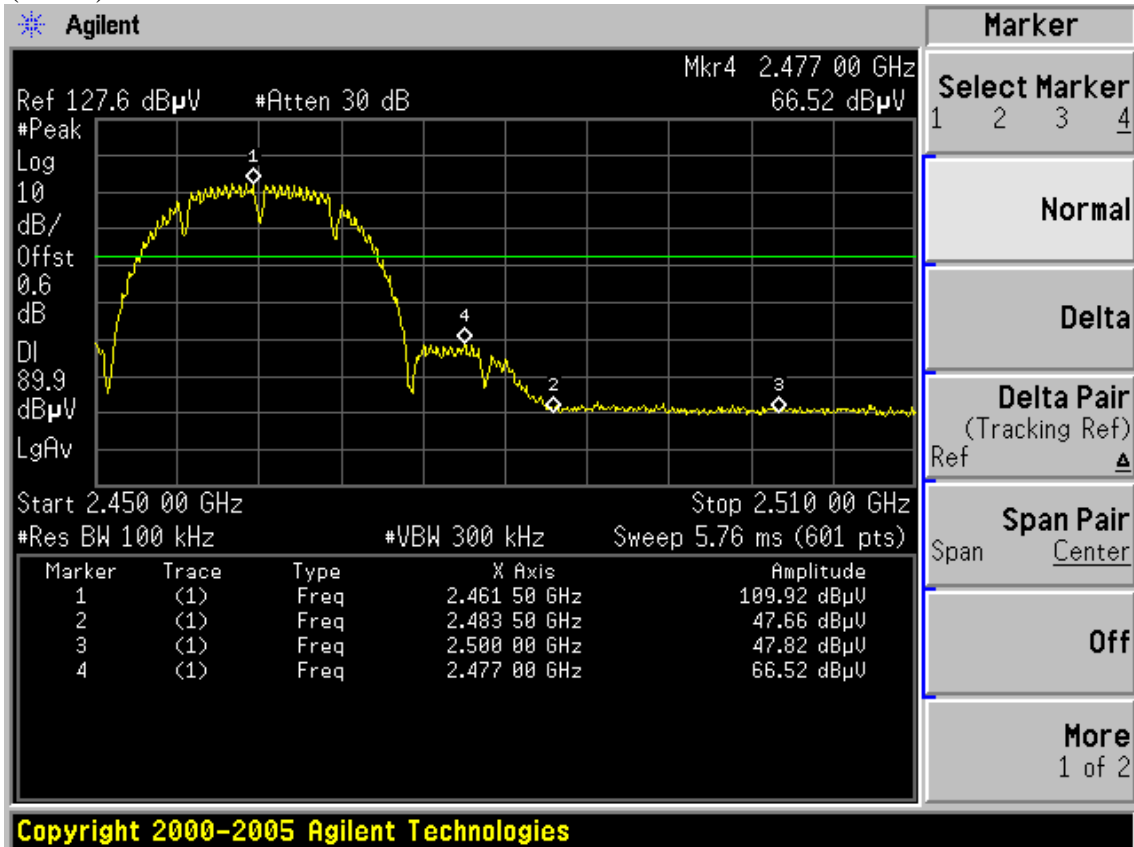
Test mode: IEEE 802.11b TX
(CH1)



(CH6)

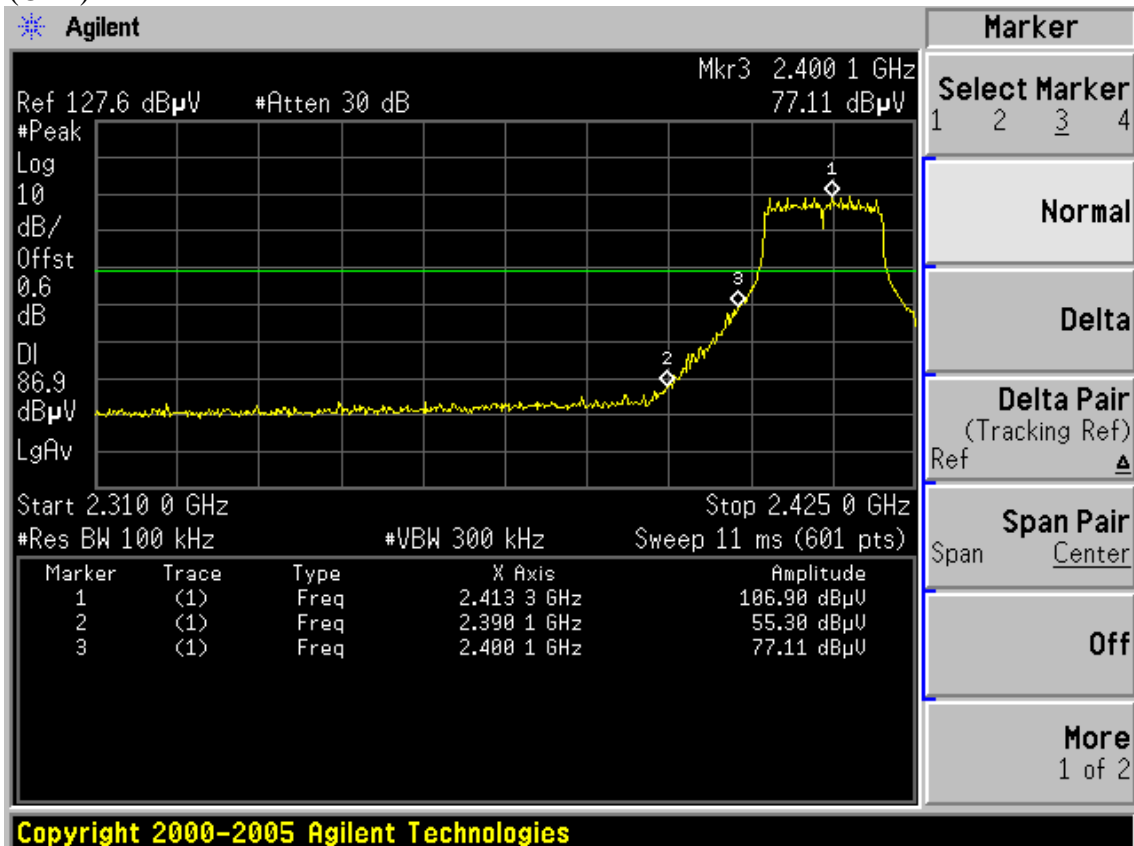


(CH11)

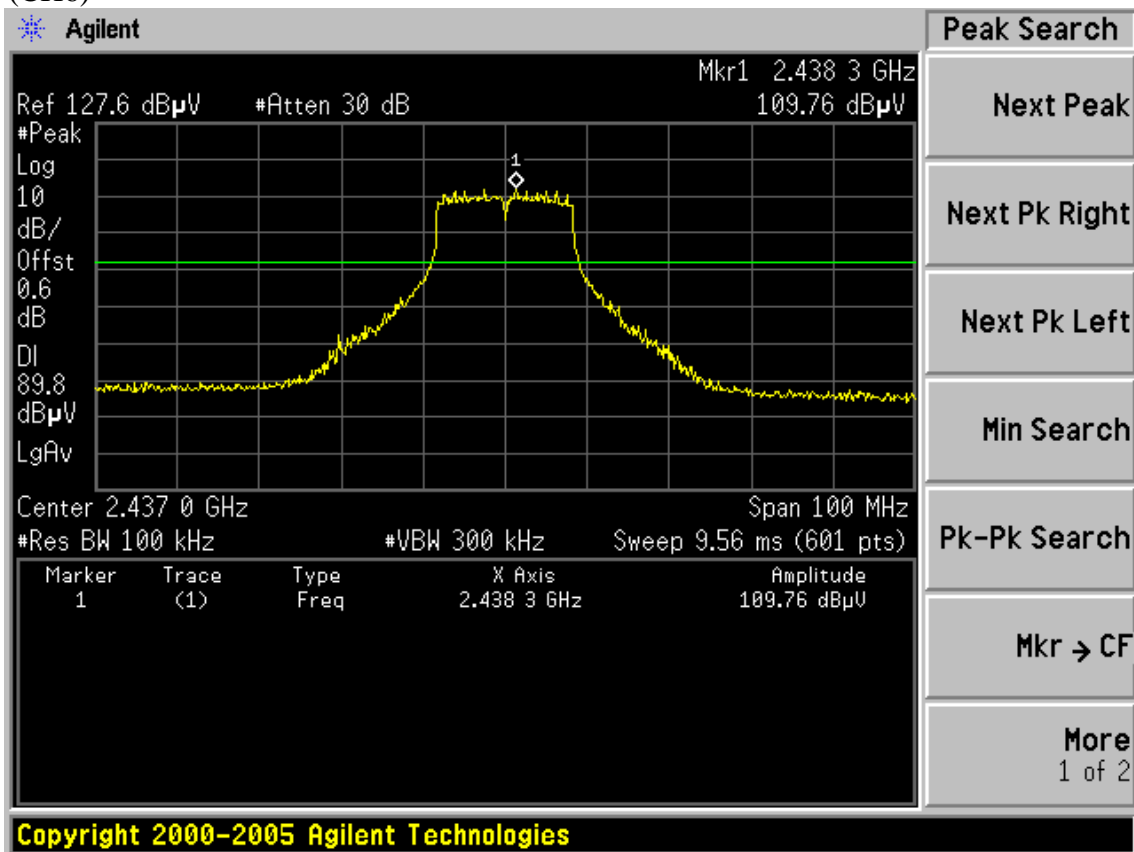


Test mode: IEEE 802.11g TX

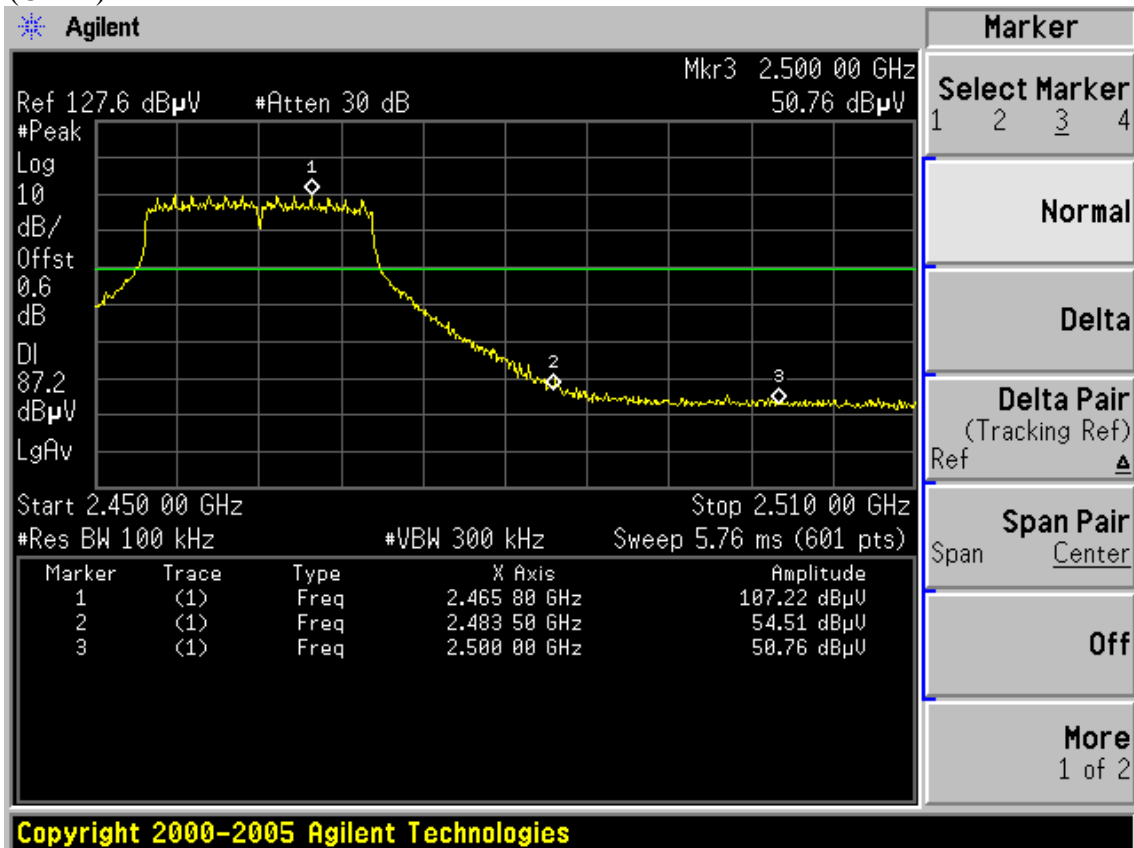
(CH1)



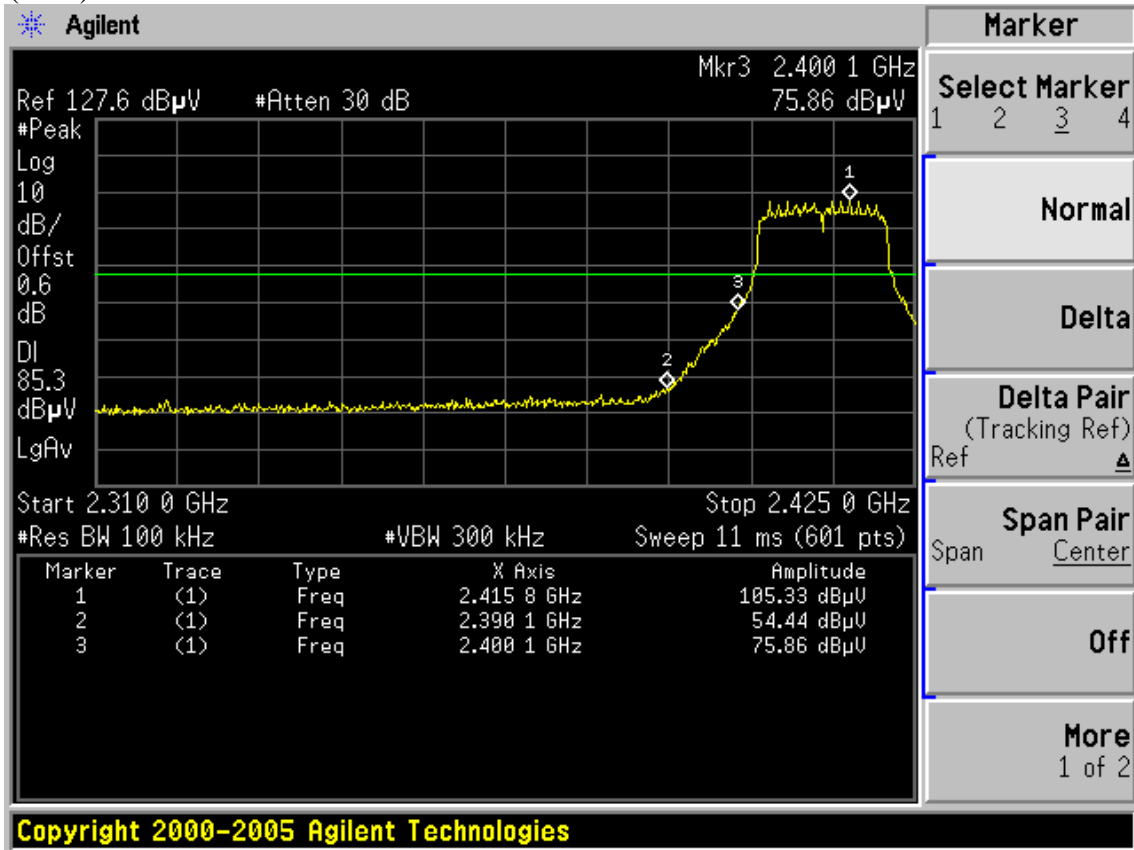
(CH6)



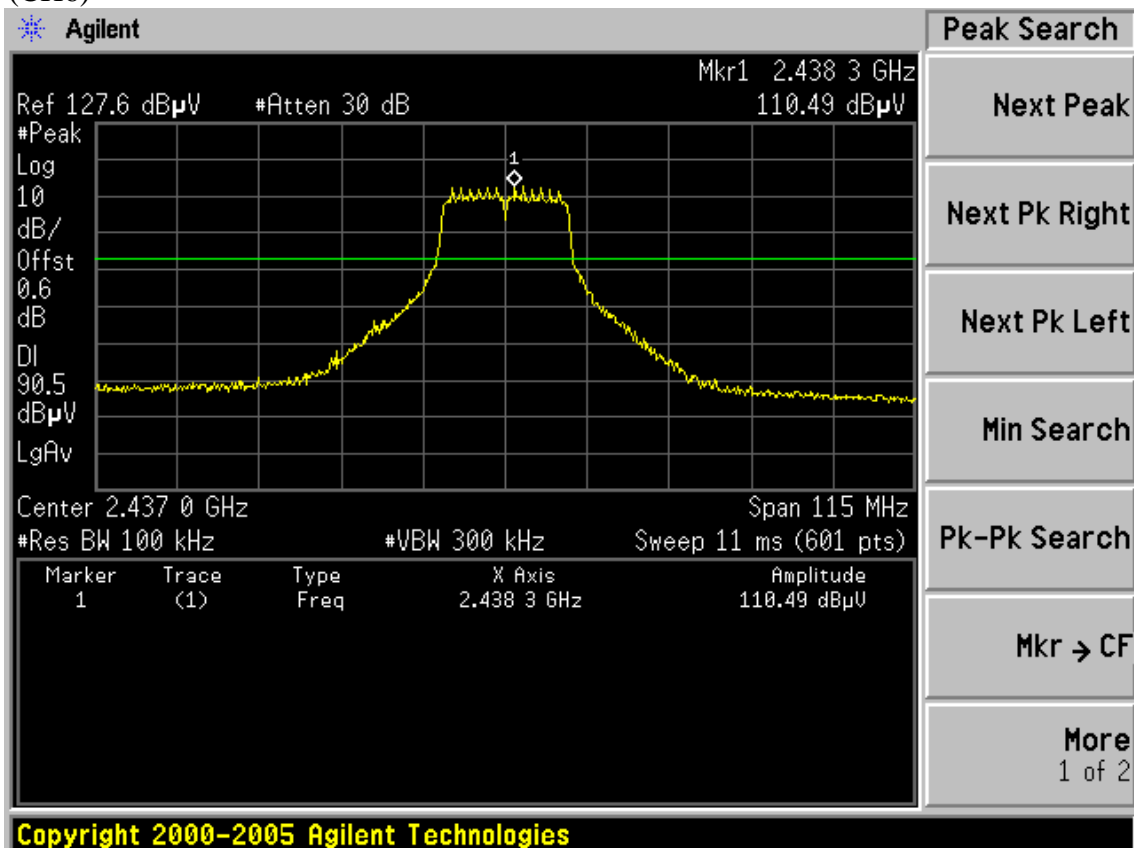
(CH11)



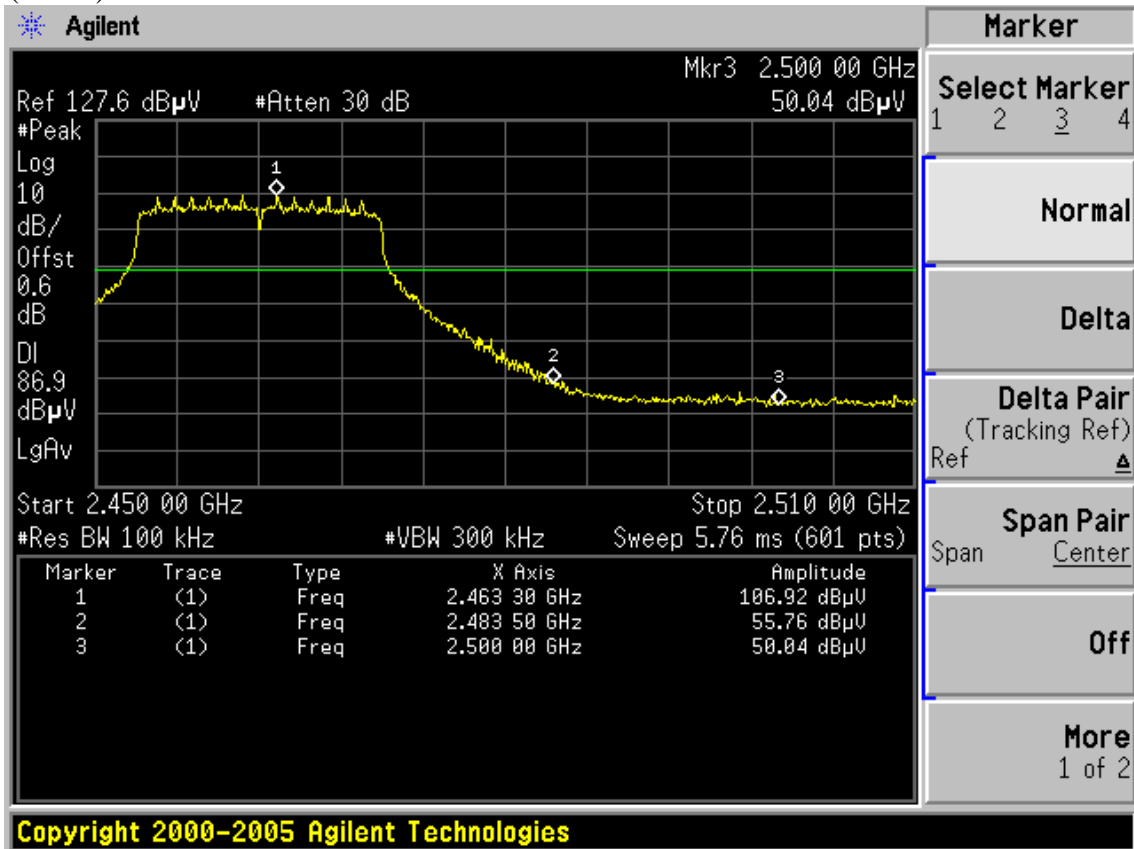
Test mode: IEEE 802.11n HT20 TX
(CH1)



(CH6)

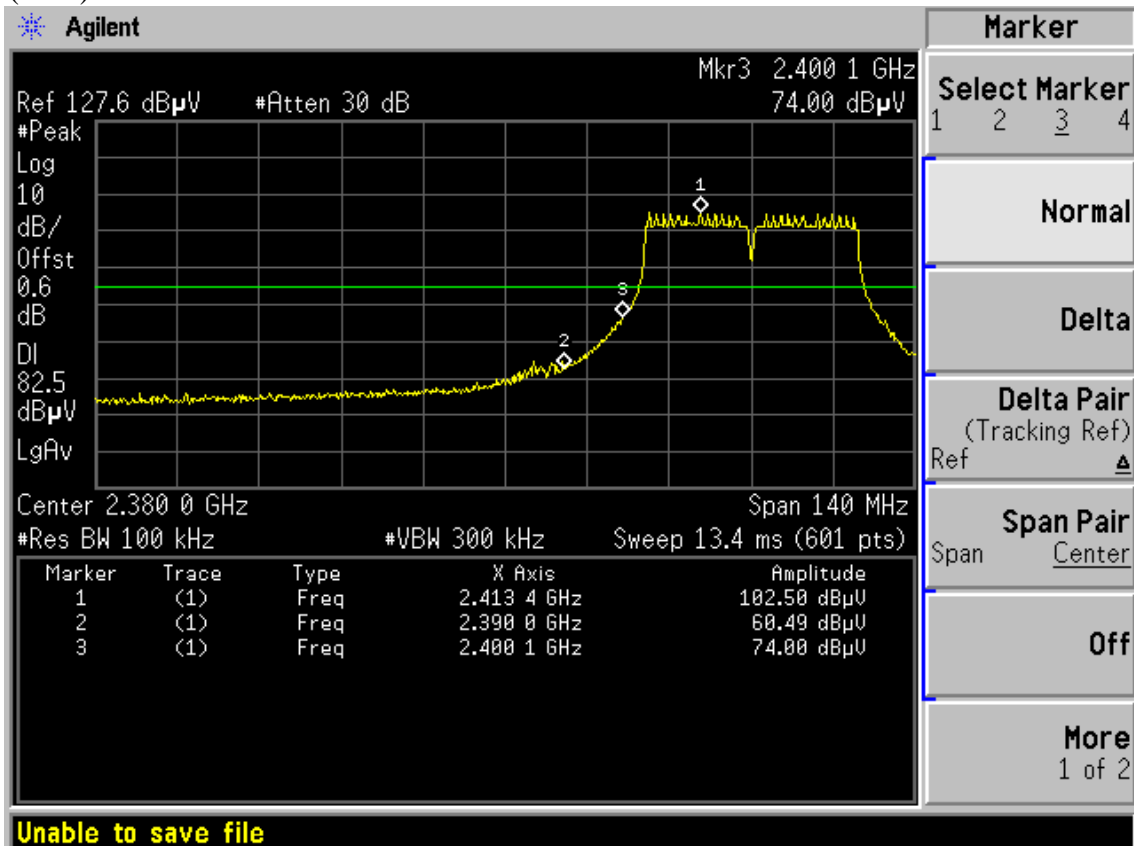


(CH11)

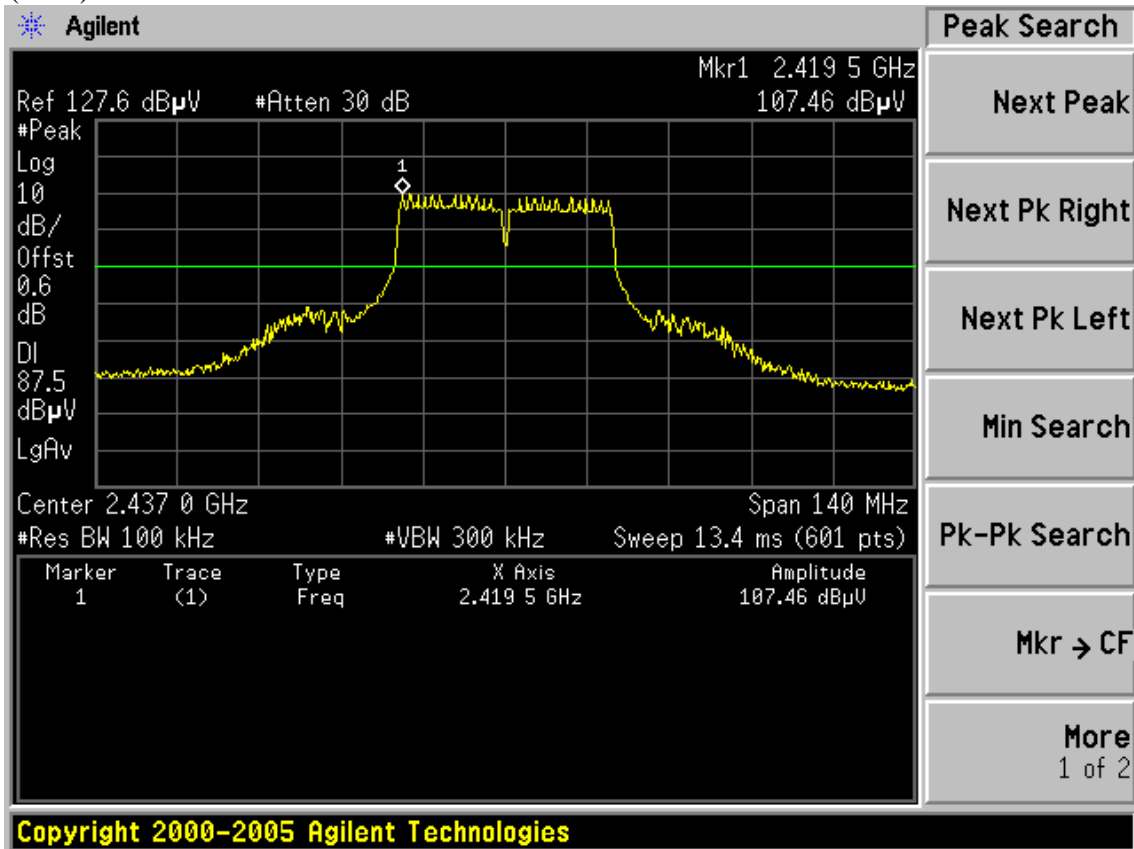


Test mode: IEEE 802.11n HT40 TX

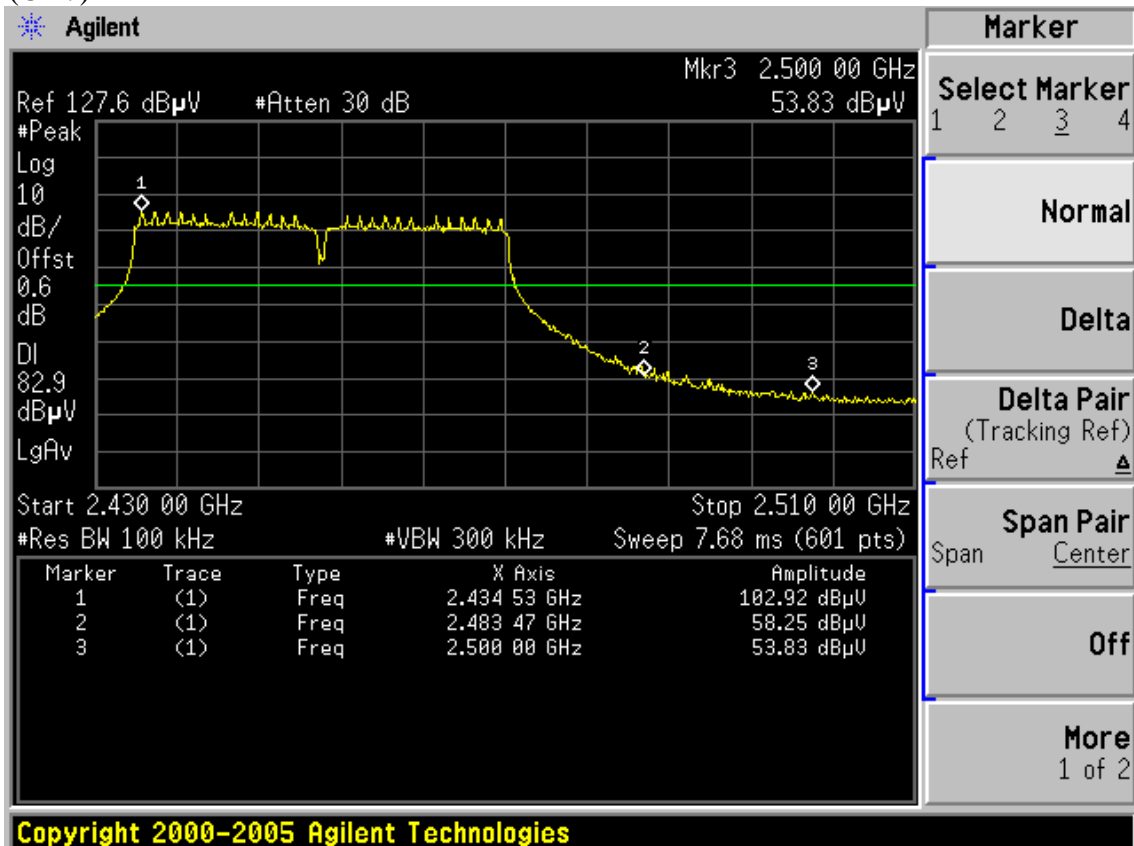
(CH1)



(CH4)



(CH7)



6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|-------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May,10, 08 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9607-4877 | May, 27, 08 | 1.5 Year |
| 3 | Amplifier | Agilent | 8449B | 3008A02495 | Nov, 06.08 | 1 Year |
| 4 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28620/2 | May,28, 08 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX 102 | 271471/4 | May,28, 08 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX 102 | 29086/2 | May,28, 08 | 1 Year |

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

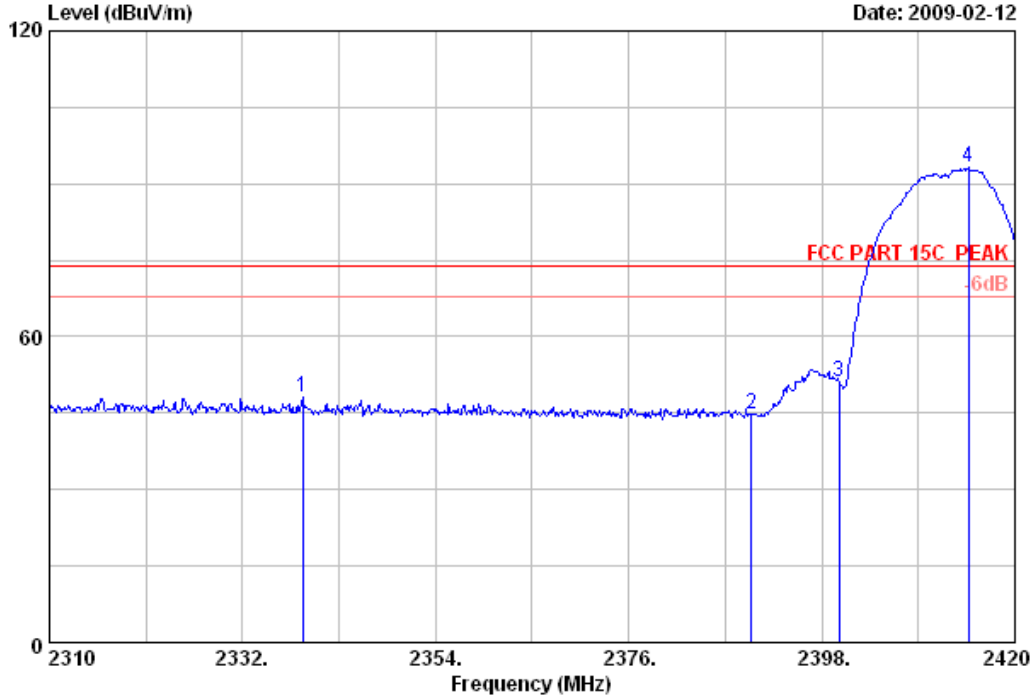
6.4. Test Results

Pass (The testing data was attached in the next pages.)



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 73 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 73
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2338.820 | 28.38 | 6.67 | 35.13 | 48.23 | 48.15 | 74.00 | 25.85 | Peak |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 44.74 | 44.79 | 74.00 | 29.21 | Peak |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 51.14 | 51.21 | 74.00 | 22.79 | Peak |
| 4 | 2414.720 | 28.48 | 6.77 | 35.12 | 92.98 | 93.11 | 74.00 | -19.11 | Peak |

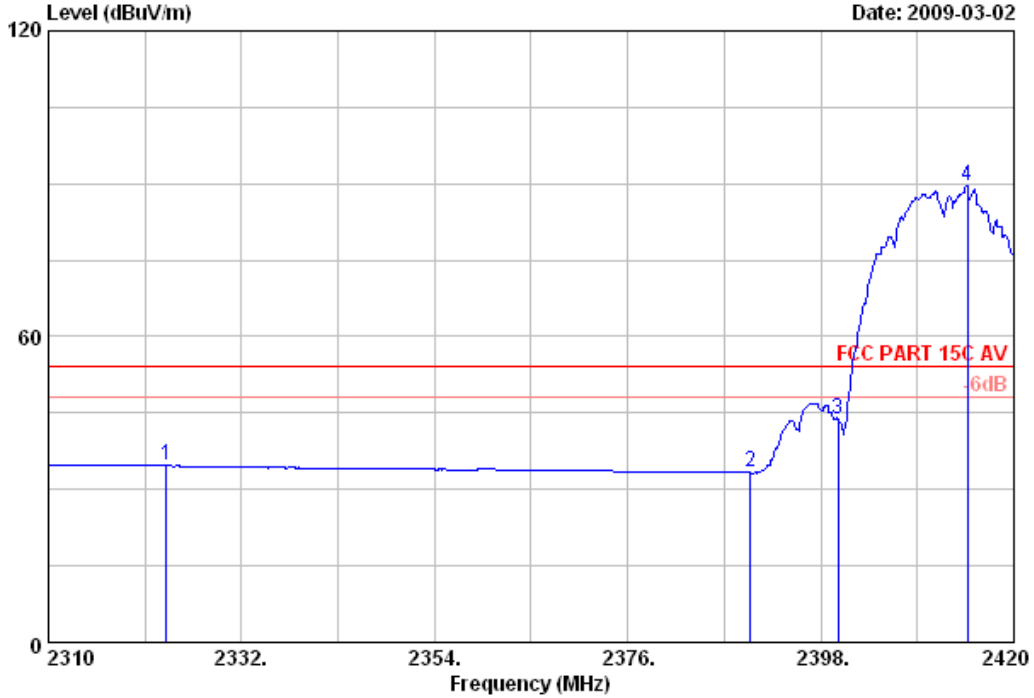
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
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Postcode:518057

Data: 74 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 74
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 2323.420 | 28.36 | 6.65 | 35.13 | 34.78 | 34.66 | 54.00 | 19.34 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 33.22 | 33.27 | 54.00 | 20.73 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 43.77 | 43.84 | 54.00 | 10.16 | Average |
| 4 | 2414.720 | 28.48 | 6.77 | 35.12 | 89.44 | 89.57 | 54.00 | -35.57 | Average |

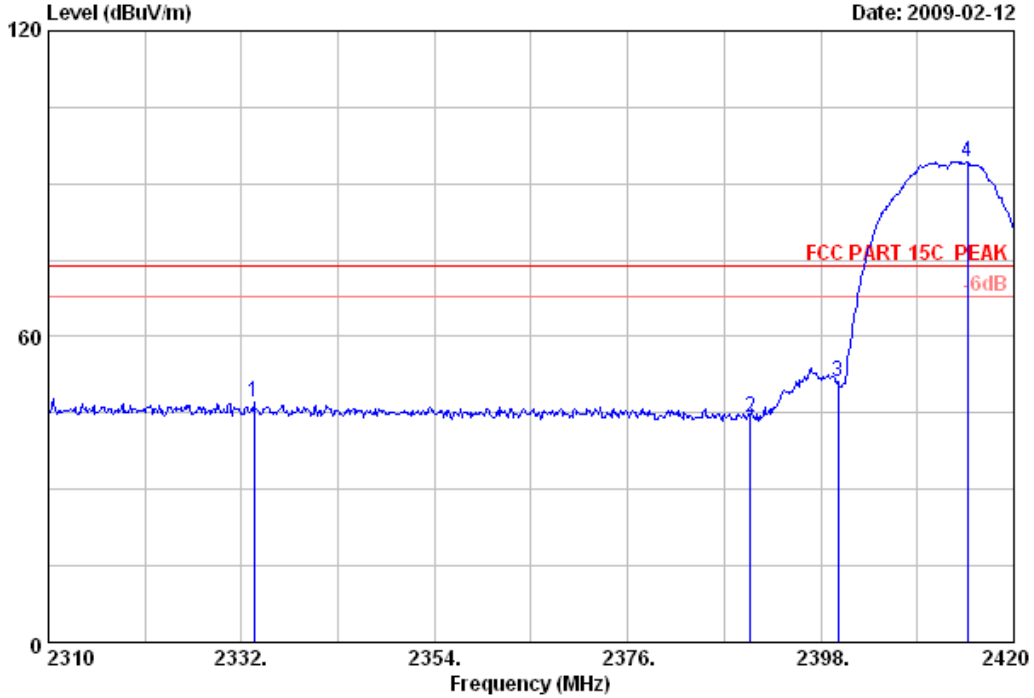
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 75 File: E:\2009 report data\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 75
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2333.430 | 28.36 | 6.65 | 35.13 | 47.26 | 47.14 | 74.00 | 26.86 | Peak |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 43.93 | 43.98 | 74.00 | 30.02 | Peak |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 51.02 | 51.09 | 74.00 | 22.91 | Peak |
| 4 | 2414.720 | 28.48 | 6.77 | 35.12 | 94.13 | 94.26 | 74.00 | -20.26 | Peak |

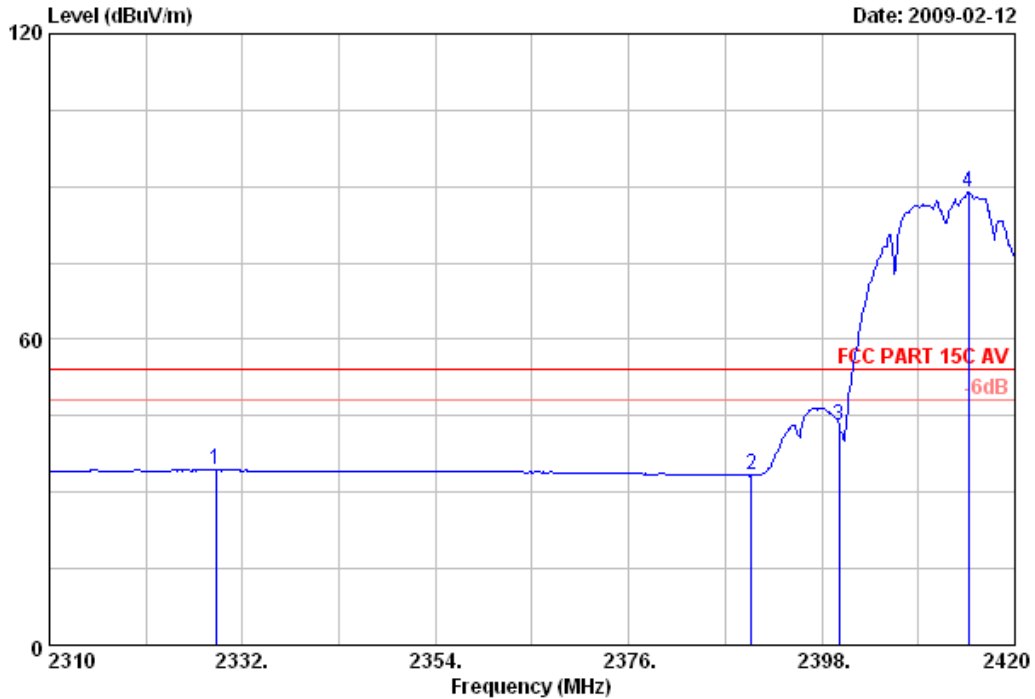
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 76 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 76
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 2328.920 | 28.36 | 6.65 | 35.13 | 34.46 | 34.34 | 54.00 | 19.66 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 33.21 | 33.26 | 54.00 | 20.74 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 43.03 | 43.10 | 54.00 | 10.90 | Average |
| 4 | 2414.720 | 28.48 | 6.77 | 35.12 | 88.75 | 88.88 | 54.00 | -34.88 | Average |

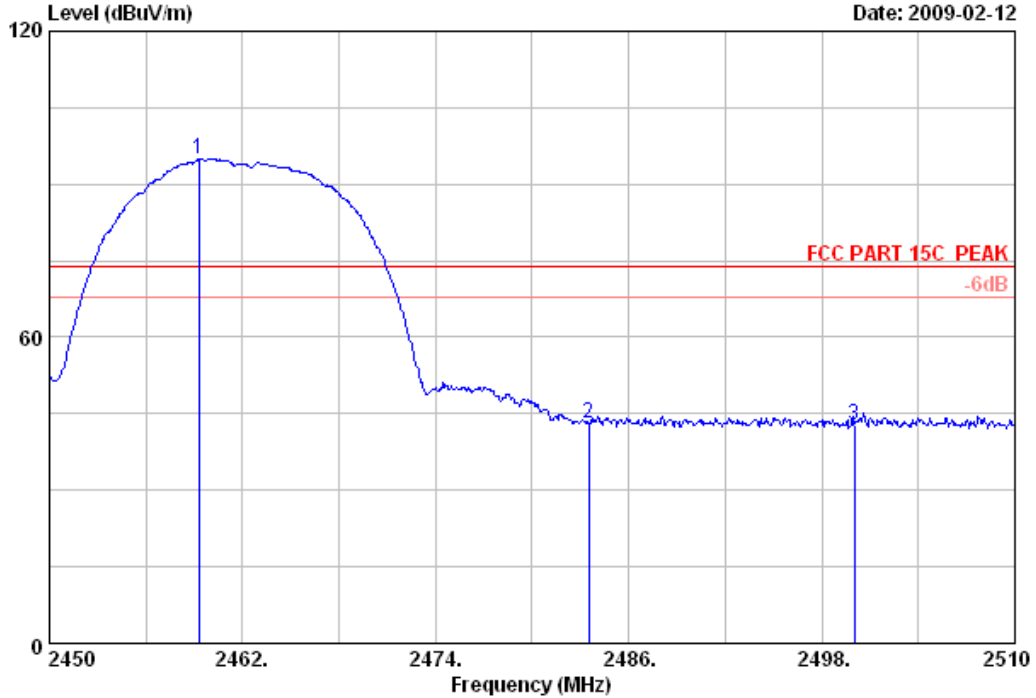
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 77 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 77
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2459.300 | 28.55 | 6.84 | 35.11 | 94.70 | 94.98 | 74.00 | -20.98 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 42.92 | 43.27 | 74.00 | 30.73 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 42.46 | 42.87 | 74.00 | 31.13 | Peak |

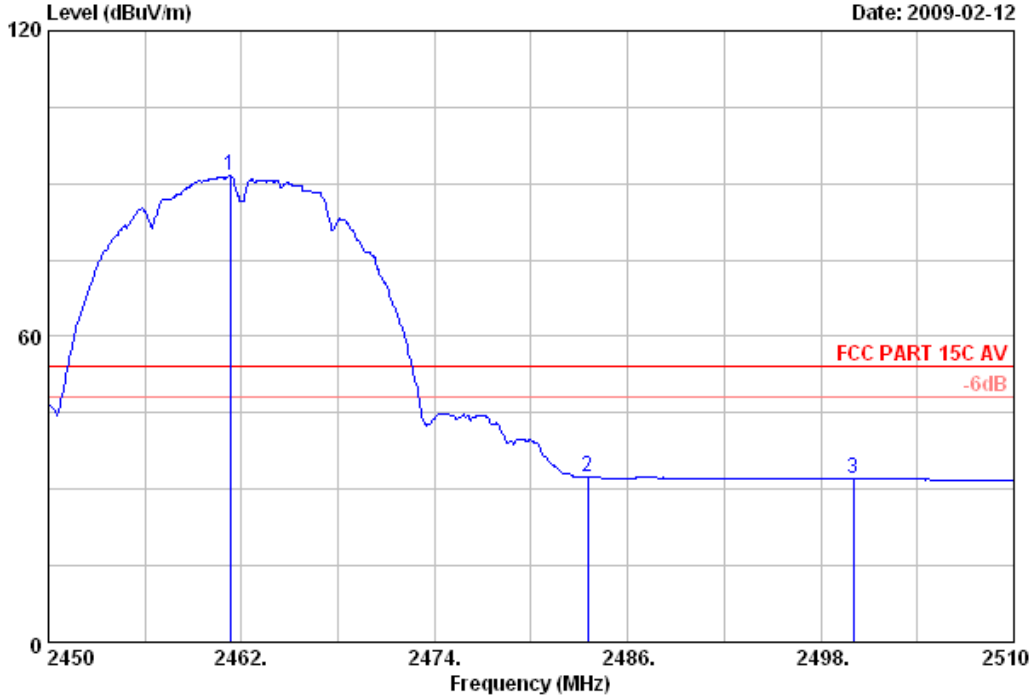
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 78 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 78
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Margin | Remark | |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | Limits | | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2461.280 | 28.55 | 6.84 | 35.11 | 91.17 | 91.45 | 54.00 | -37.45 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 32.05 | 32.40 | 54.00 | 21.60 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 31.54 | 31.95 | 54.00 | 22.05 | Average |

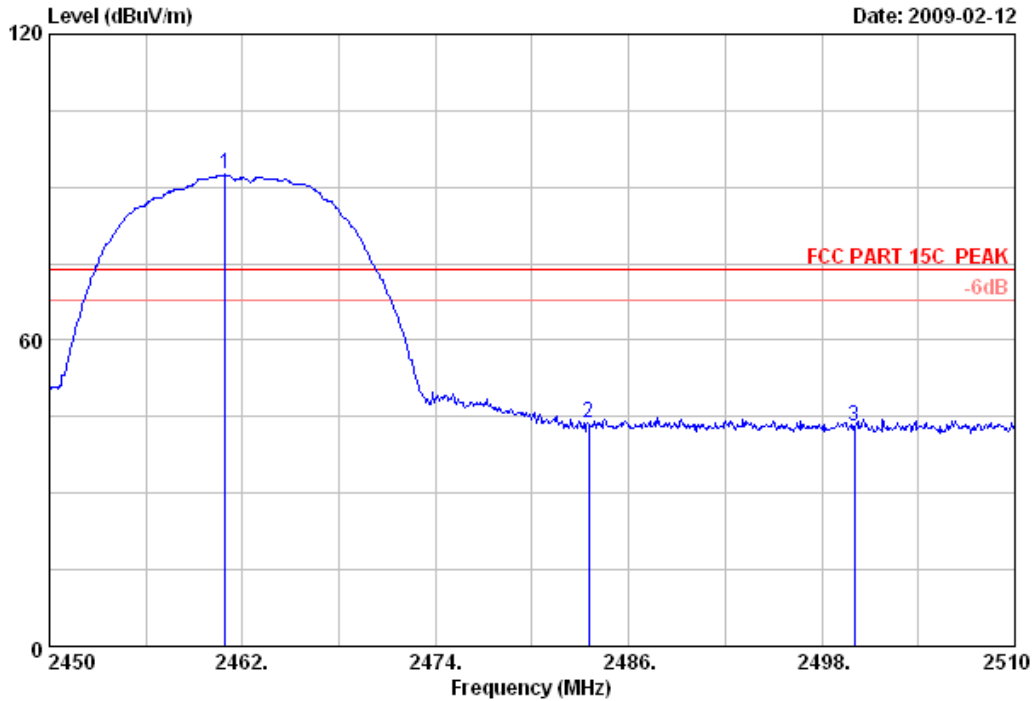
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 79 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 79
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.920 | 28.55 | 6.84 | 35.11 | 92.15 | 92.43 | 74.00 | -18.43 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 43.51 | 43.86 | 74.00 | 30.14 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 42.73 | 43.14 | 74.00 | 30.86 | Peak |

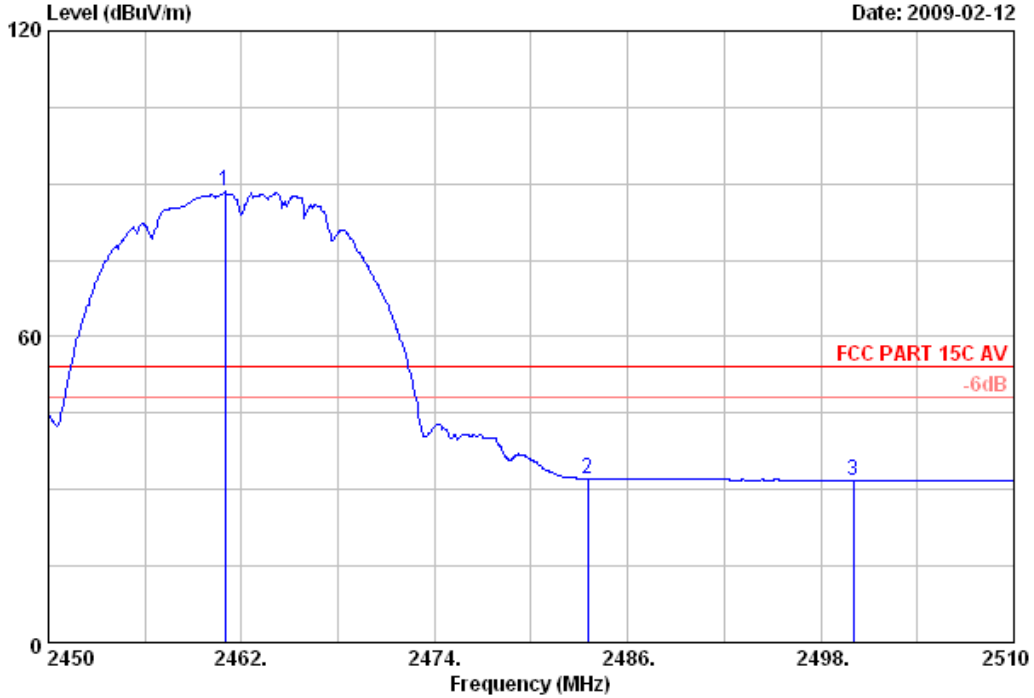
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 80
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2460.980 | 28.55 | 6.84 | 35.11 | 88.14 | 88.42 | 54.00 | -34.42 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 31.80 | 32.15 | 54.00 | 21.85 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 31.44 | 31.85 | 54.00 | 22.15 | Average |

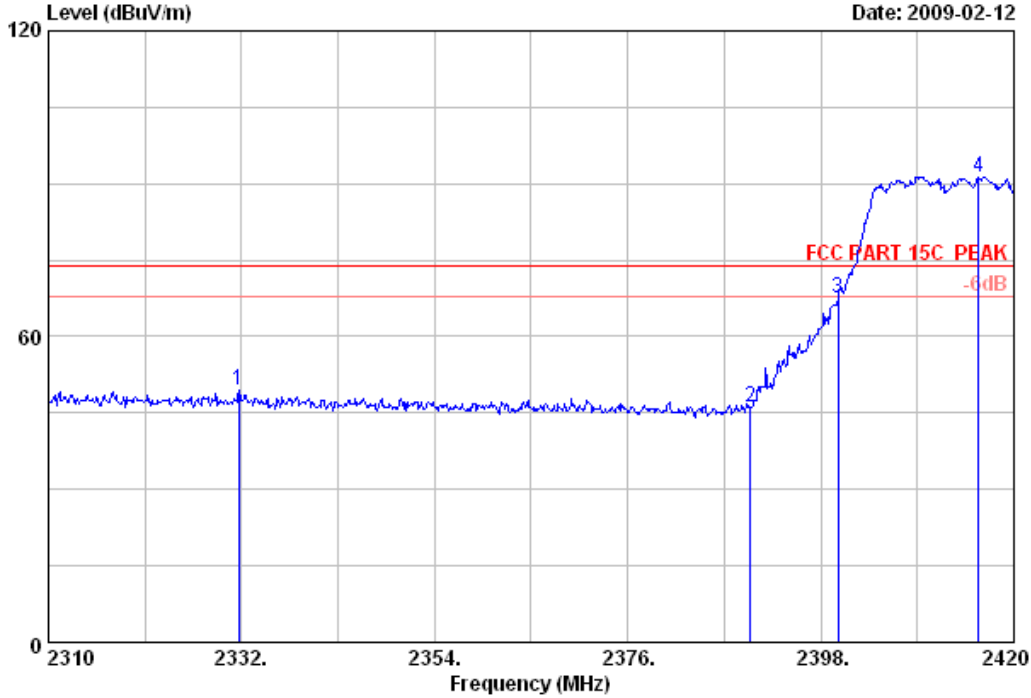
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 81
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2331.670 | 28.36 | 6.65 | 35.13 | 49.49 | 49.37 | 74.00 | 24.63 | Peak |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 45.95 | 46.00 | 74.00 | 28.00 | Peak |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 67.37 | 67.44 | 74.00 | 6.56 | Peak |
| 4 | 2415.930 | 28.48 | 6.77 | 35.11 | 91.13 | 91.27 | 74.00 | -17.27 | Peak |

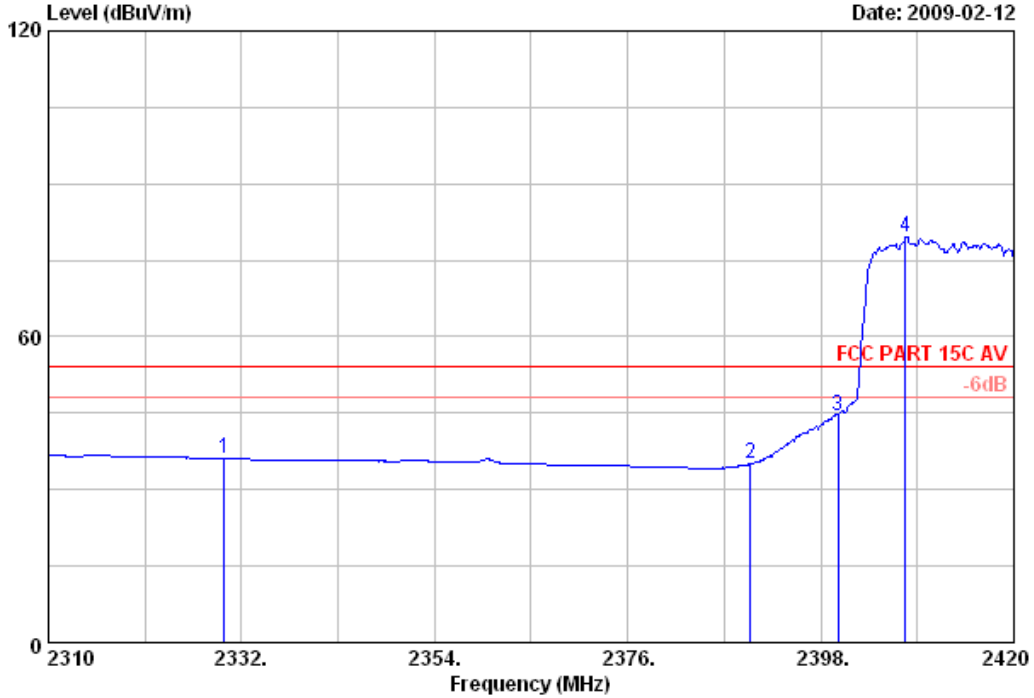
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 82
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2330.020 | 28.36 | 6.65 | 35.13 | 36.34 | 36.22 | 54.00 | 17.78 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 34.95 | 35.00 | 54.00 | 19.00 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 44.37 | 44.44 | 54.00 | 9.56 | Average |
| 4 | 2407.680 | 28.48 | 6.73 | 35.12 | 79.41 | 79.50 | 54.00 | -25.50 | Average |

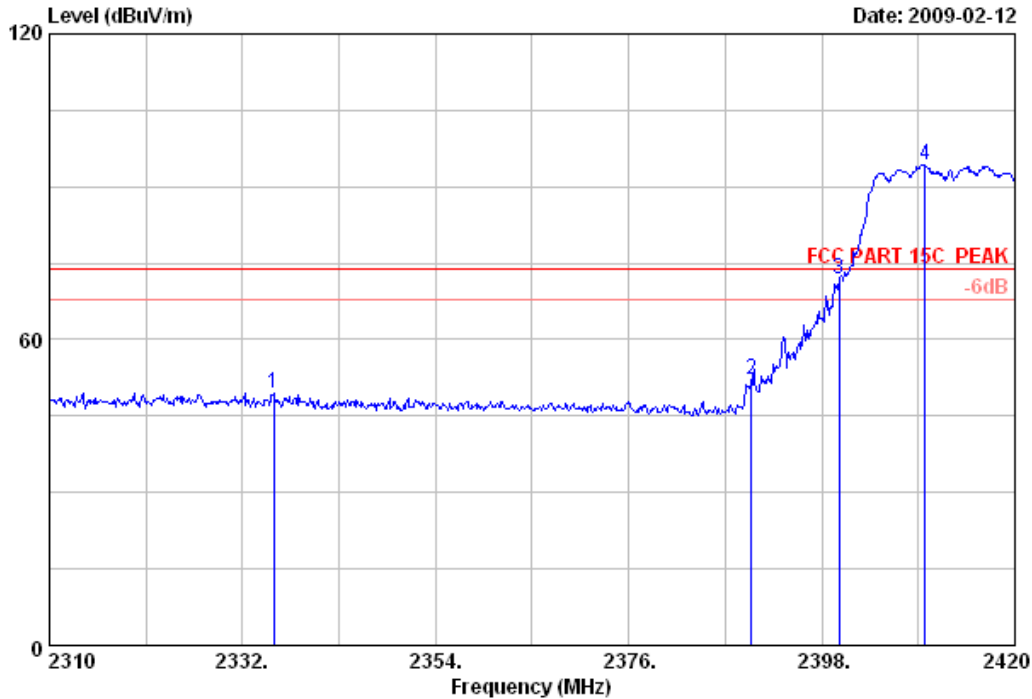
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 83
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission | | Limits (dBuV/m) | Margin (dB) | Remark |
|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | Reading (dBuV) | Level (dBuV/m) | | | |
| 1 2335.520 | 28.38 | 6.65 | 35.13 | 49.46 | 49.36 | 74.00 | 24.64 | Peak |
| 2 2390.000 | 28.46 | 6.71 | 35.12 | 52.19 | 52.24 | 74.00 | 21.76 | Peak |
| 3 2400.000 | 28.46 | 6.73 | 35.12 | 71.65 | 71.72 | 74.00 | 2.28 | Peak |
| 4 2409.770 | 28.48 | 6.73 | 35.12 | 94.14 | 94.23 | 74.00 | -20.23 | Peak |

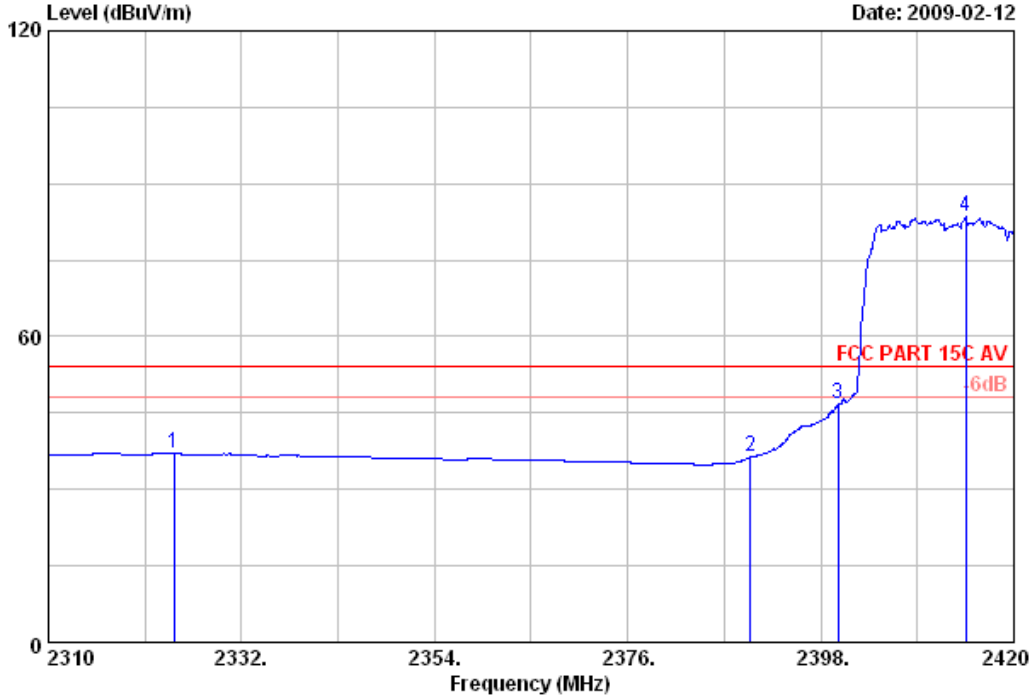
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 84
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2324.300 | 28.36 | 6.65 | 35.13 | 37.09 | 36.97 | 54.00 | 17.03 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 36.37 | 36.42 | 54.00 | 17.58 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 46.57 | 46.64 | 54.00 | 7.36 | Average |
| 4 | 2414.500 | 28.48 | 6.77 | 35.12 | 83.35 | 83.48 | 54.00 | -29.48 | Average |

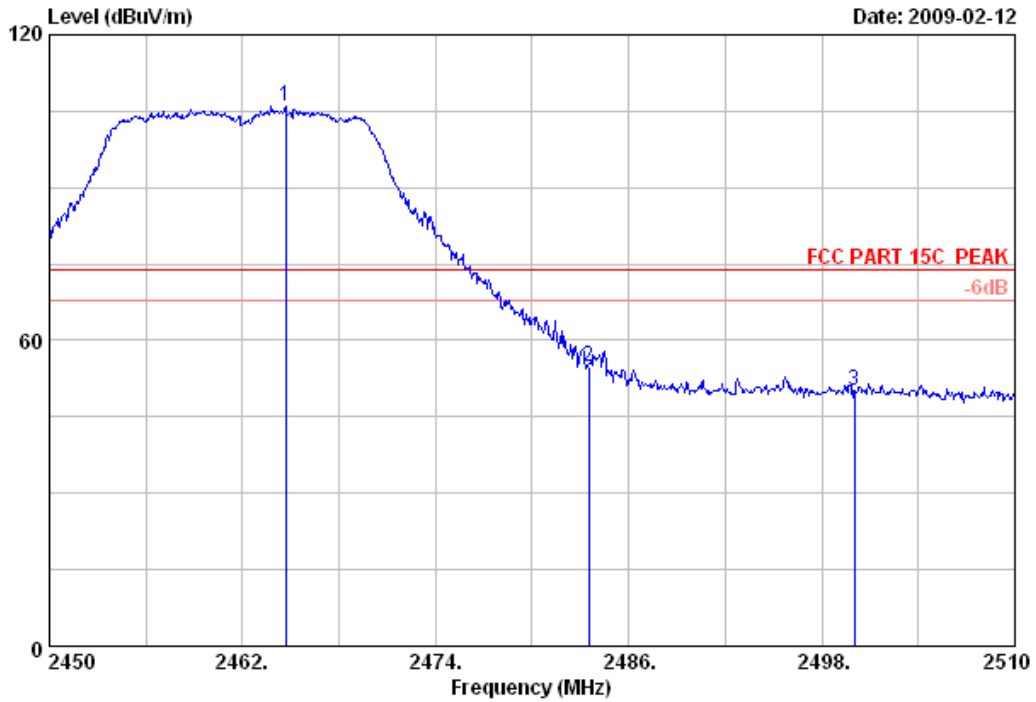
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 85
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2464.700 | 28.55 | 6.84 | 35.11 | 105.58 | 105.86 | 74.00 | -31.86 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 54.62 | 54.97 | 74.00 | 19.03 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 49.78 | 50.19 | 74.00 | 23.81 | Peak |

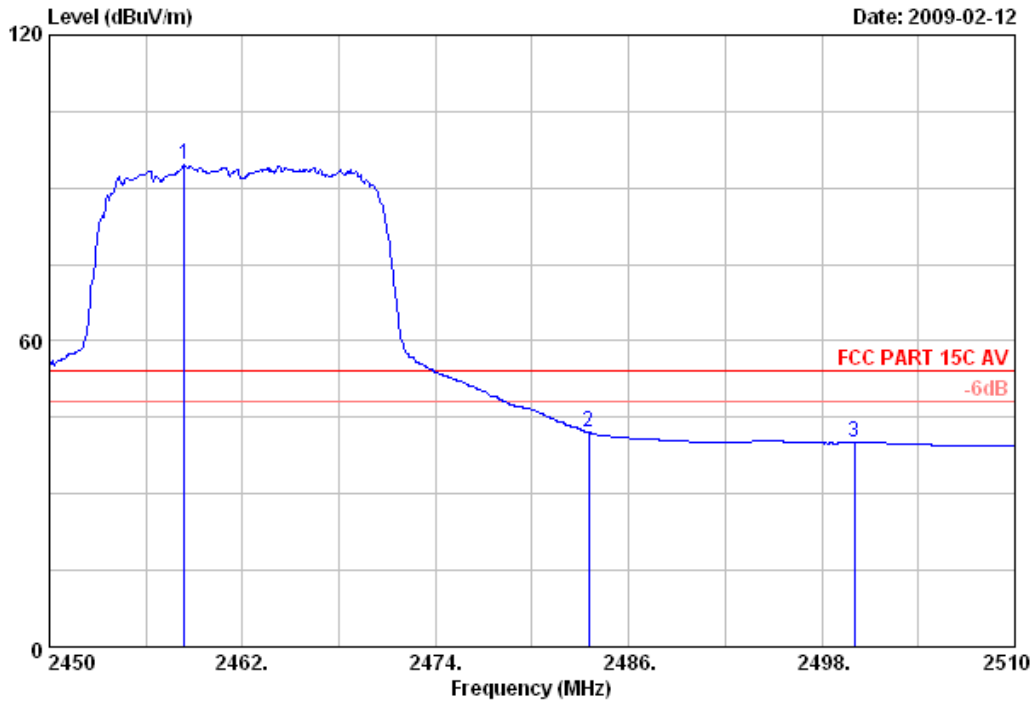
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 86
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|----------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2458.400 | 28.55 | 6.84 | 35.11 | 94.26 | 94.54 | 54.00 | -40.54 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 41.70 | 42.05 | 54.00 | 11.95 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 39.65 | 40.06 | 54.00 | 13.94 | Average |

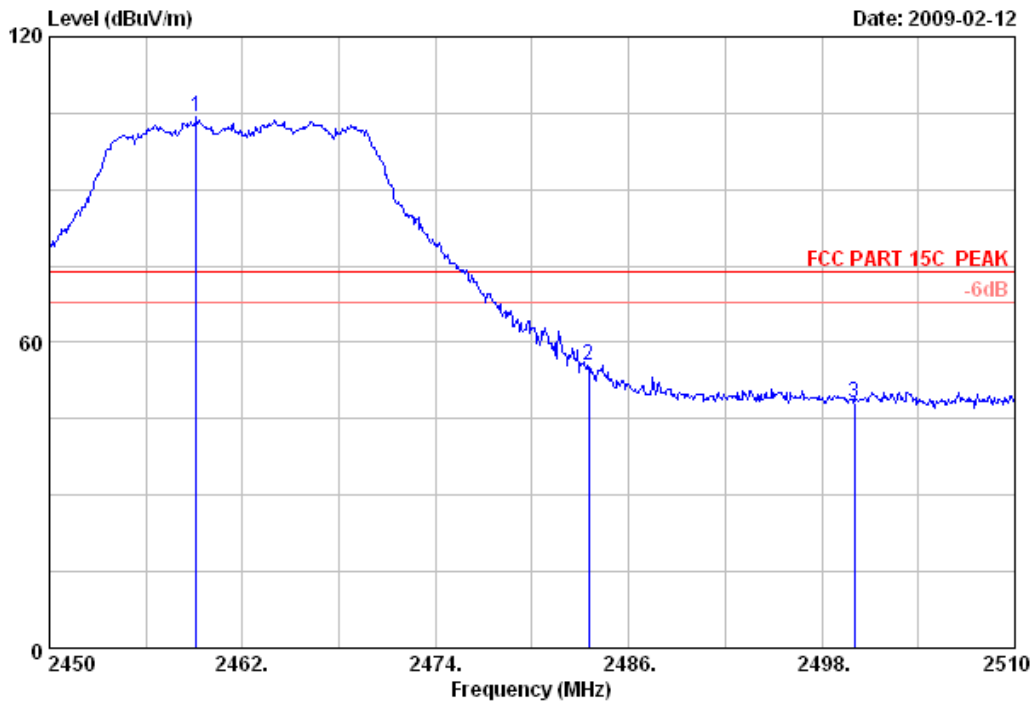
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 87
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2459.120 | 28.55 | 6.84 | 35.11 | 103.99 | 104.27 | 74.00 | -30.27 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 55.00 | 55.35 | 74.00 | 18.65 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 47.79 | 48.20 | 74.00 | 25.80 | Peak |

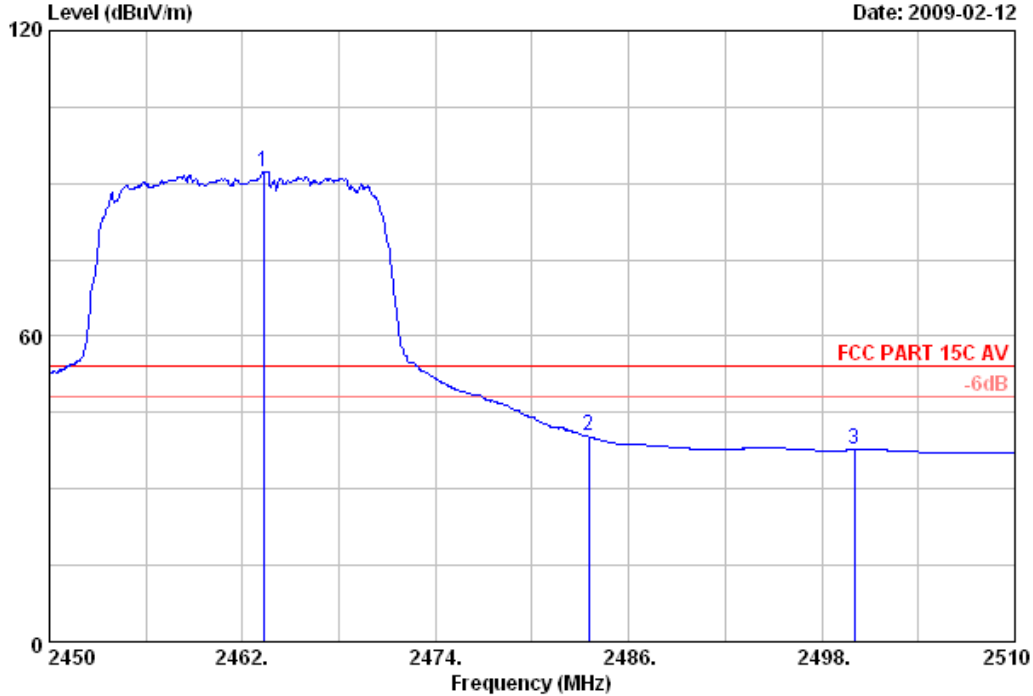
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 88
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2463.320 | 28.55 | 6.84 | 35.11 | 92.07 | 92.35 | 54.00 | -38.35 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 39.97 | 40.32 | 54.00 | 13.68 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 37.27 | 37.68 | 54.00 | 16.32 | Average |

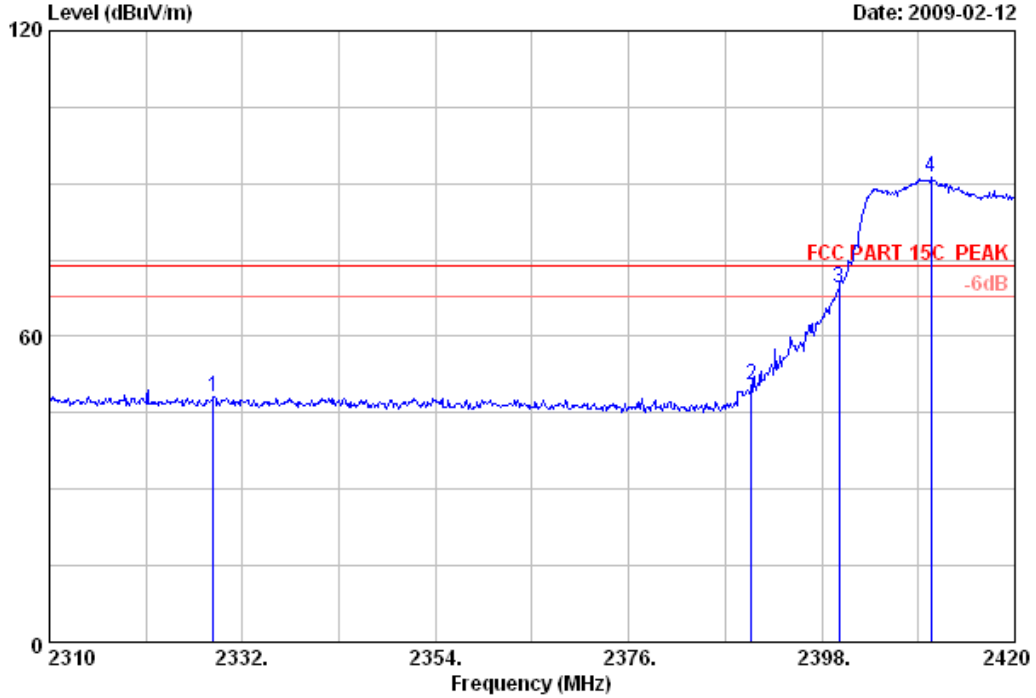
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 89 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 89
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Emission | | Limits (dBuV/m) | Margin (dB) | Remark |
|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | Reading (dBuV) | Level (dBuV/m) | | | |
| 1 2328.700 | 28.36 | 6.65 | 35.13 | 48.36 | 48.24 | 74.00 | 25.76 | Peak |
| 2 2390.000 | 28.46 | 6.71 | 35.12 | 50.43 | 50.48 | 74.00 | 23.52 | Peak |
| 3 2400.000 | 28.46 | 6.73 | 35.12 | 69.59 | 69.66 | 74.00 | 4.34 | Peak |
| 4 2410.430 | 28.48 | 6.73 | 35.12 | 91.33 | 91.42 | 74.00 | -17.42 | Peak |

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 90 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 90
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|----------|--------|--------|---------|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2323.750 | 28.36 | 6.65 | 35.13 | 35.88 | 35.76 | 54.00 | 18.24 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 34.83 | 34.88 | 54.00 | 19.12 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 42.71 | 42.78 | 54.00 | 11.22 | Average |
| 4 | 2407.350 | 28.48 | 6.73 | 35.12 | 78.18 | 78.27 | 54.00 | -24.27 | Average |

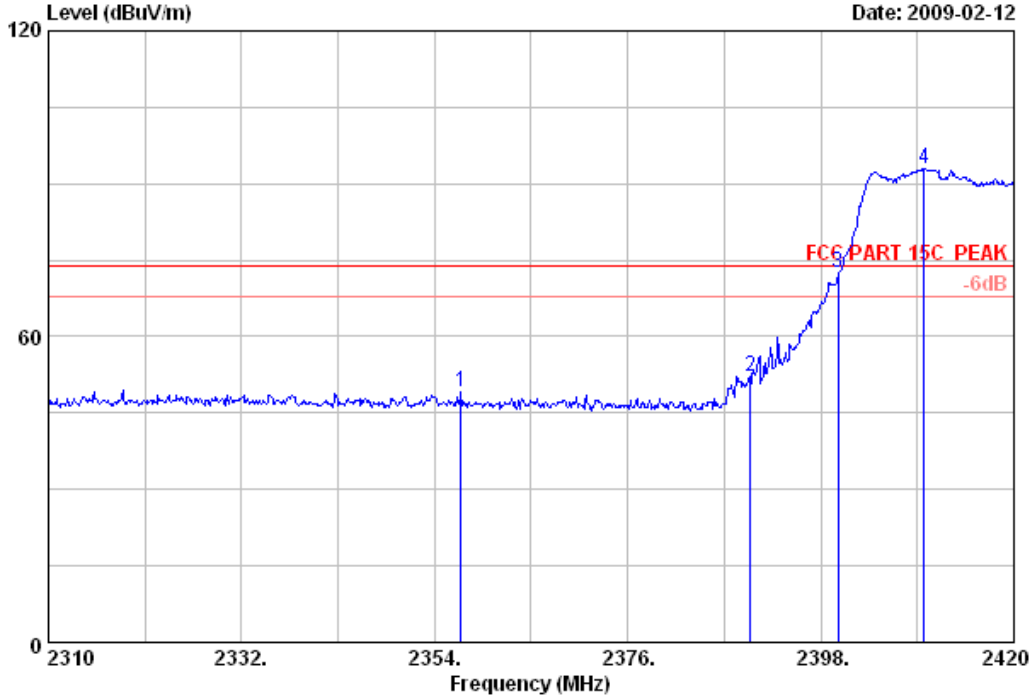
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 91 File: E:\2009 report data\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 91
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2356.970 | 28.41 | 6.69 | 35.13 | 49.31 | 49.28 | 74.00 | 24.72 | Peak |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 52.13 | 52.18 | 74.00 | 21.82 | Peak |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 72.42 | 72.49 | 74.00 | 1.51 | Peak |
| 4 | 2409.770 | 28.48 | 6.73 | 35.12 | 92.70 | 92.79 | 74.00 | -18.79 | Peak |

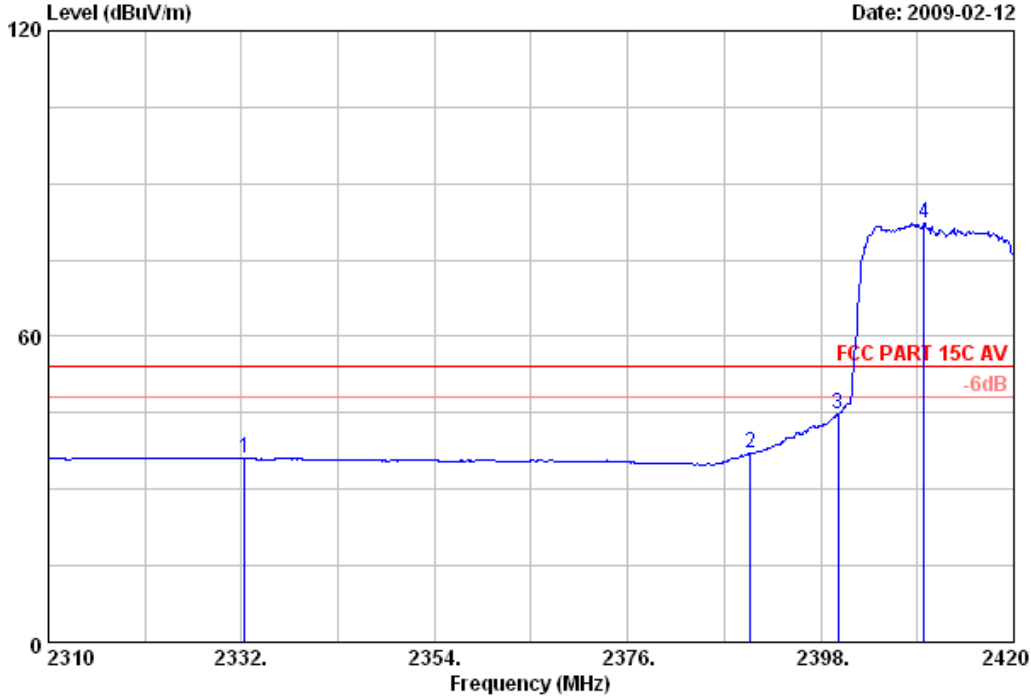
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 92
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 2332.330 | 28.36 | 6.65 | 35.13 | 36.36 | 36.24 | 54.00 | 17.76 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 37.07 | 37.12 | 54.00 | 16.88 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 44.74 | 44.81 | 54.00 | 9.19 | Average |
| 4 | 2409.770 | 28.48 | 6.73 | 35.12 | 82.30 | 82.39 | 54.00 | -28.39 | Average |

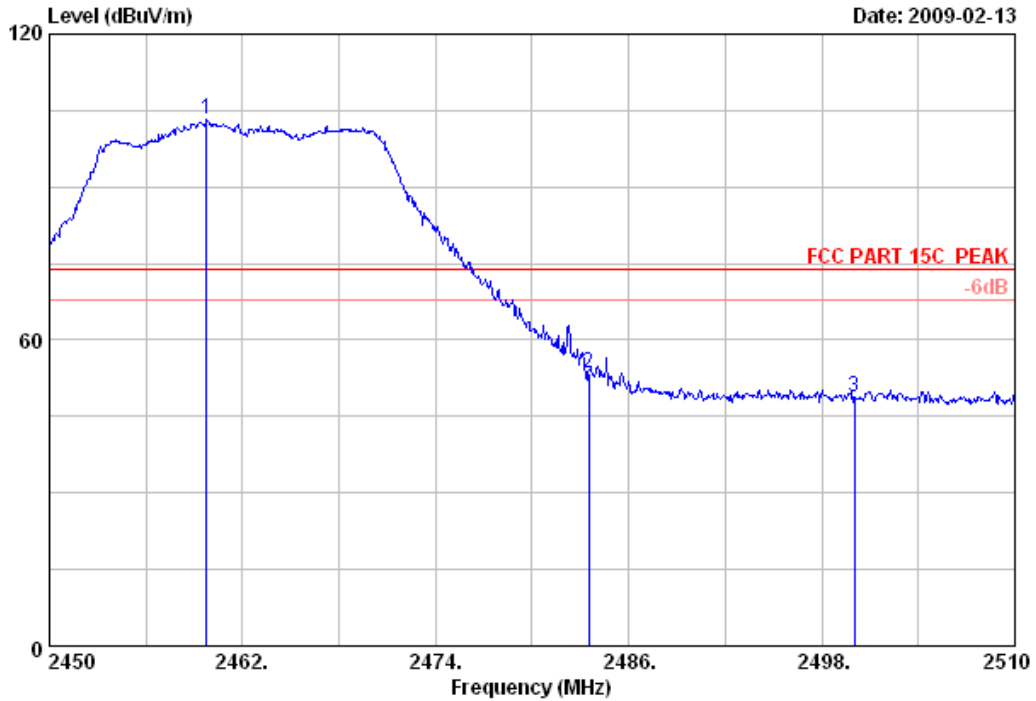
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 93
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2459.780 | 28.55 | 6.84 | 35.11 | 102.90 | 103.18 | 74.00 | -29.18 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 53.25 | 53.60 | 74.00 | 20.40 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 48.36 | 48.77 | 74.00 | 25.23 | Peak |

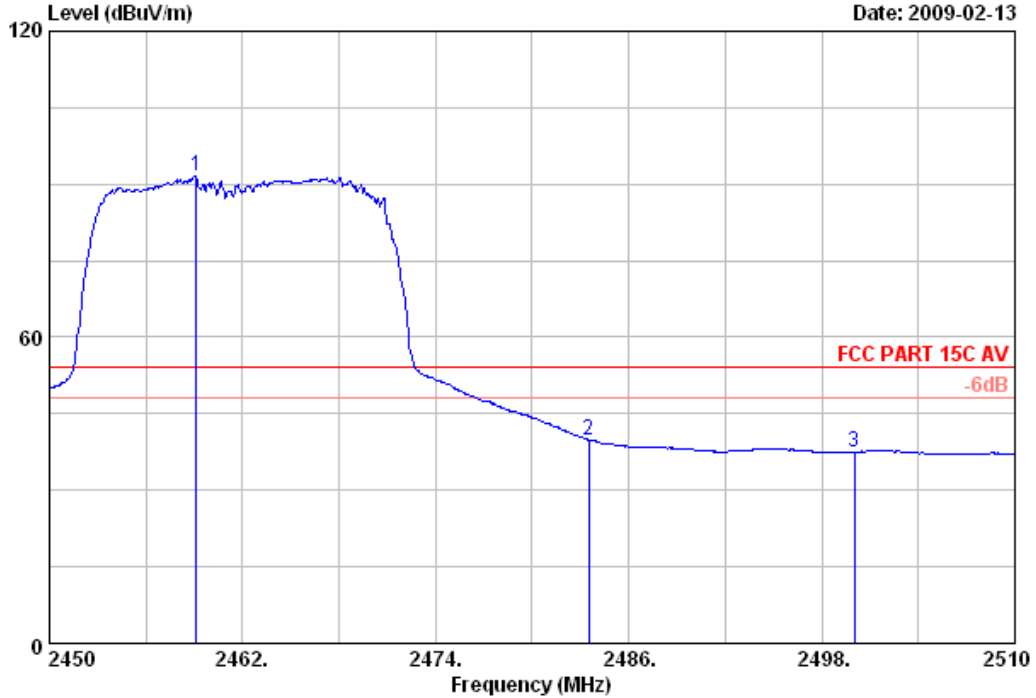
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 94
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2459.120 | 28.55 | 6.84 | 35.11 | 91.44 | 91.72 | 54.00 | -37.72 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 39.56 | 39.91 | 54.00 | 14.09 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 37.10 | 37.51 | 54.00 | 16.49 | Average |

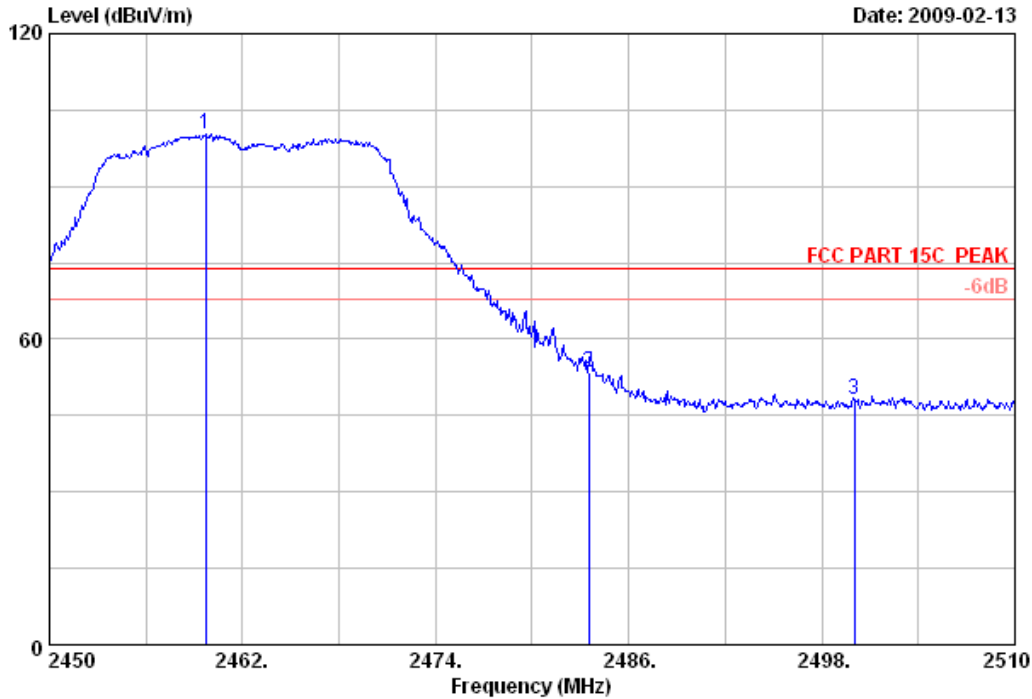
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 95
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2459.720 | 28.55 | 6.84 | 35.11 | 99.96 | 100.24 | 74.00 | -26.24 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 53.09 | 53.44 | 74.00 | 20.56 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 47.88 | 48.29 | 74.00 | 25.71 | Peak |

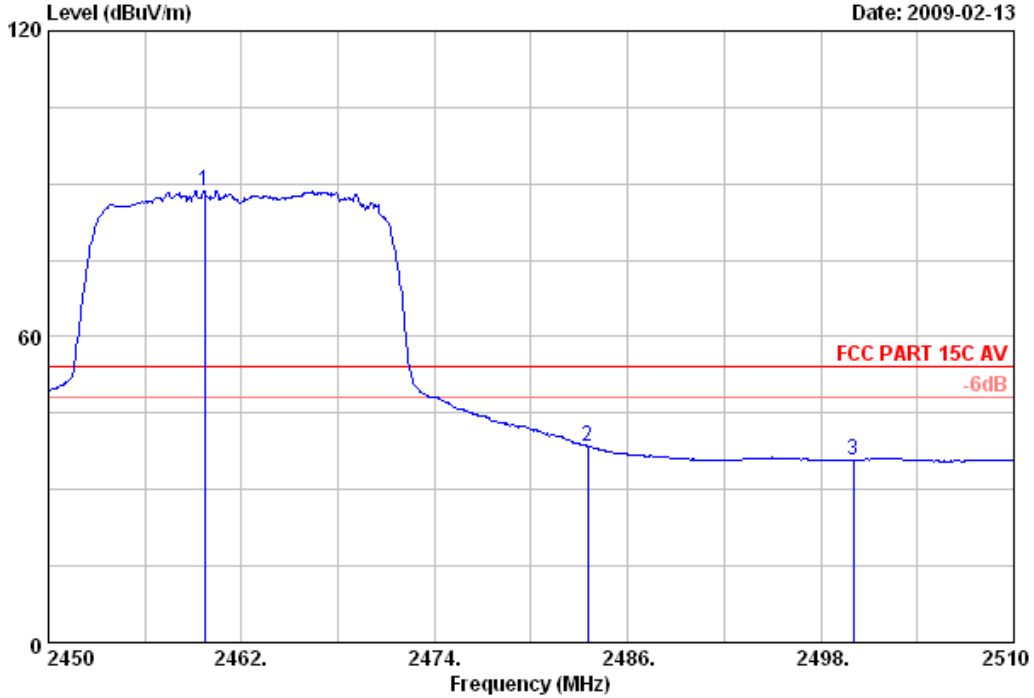
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 96
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2459.720 | 28.55 | 6.84 | 35.11 | 88.31 | 88.59 | 54.00 | -34.59 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 38.09 | 38.44 | 54.00 | 15.56 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 35.43 | 35.84 | 54.00 | 18.16 | Average |

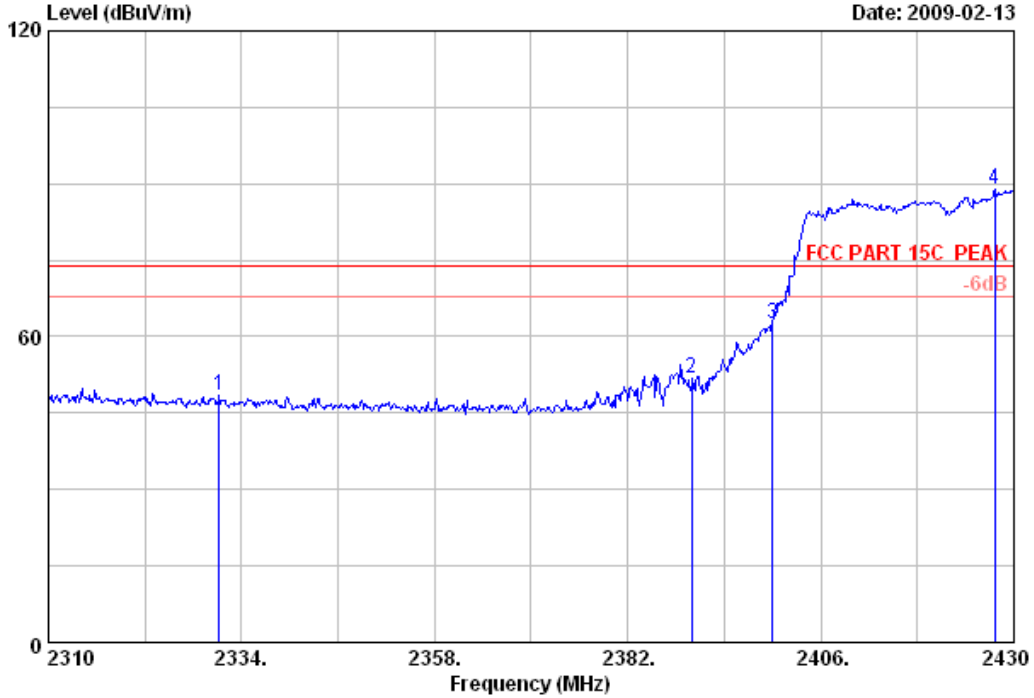
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 97
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2331.240 | 28.36 | 6.65 | 35.13 | 48.55 | 48.43 | 74.00 | 25.57 | Peak |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 51.85 | 51.90 | 74.00 | 22.10 | Peak |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 62.37 | 62.44 | 74.00 | 11.56 | Peak |
| 4 | 2427.600 | 28.50 | 6.77 | 35.11 | 88.63 | 88.79 | 74.00 | -14.79 | Peak |

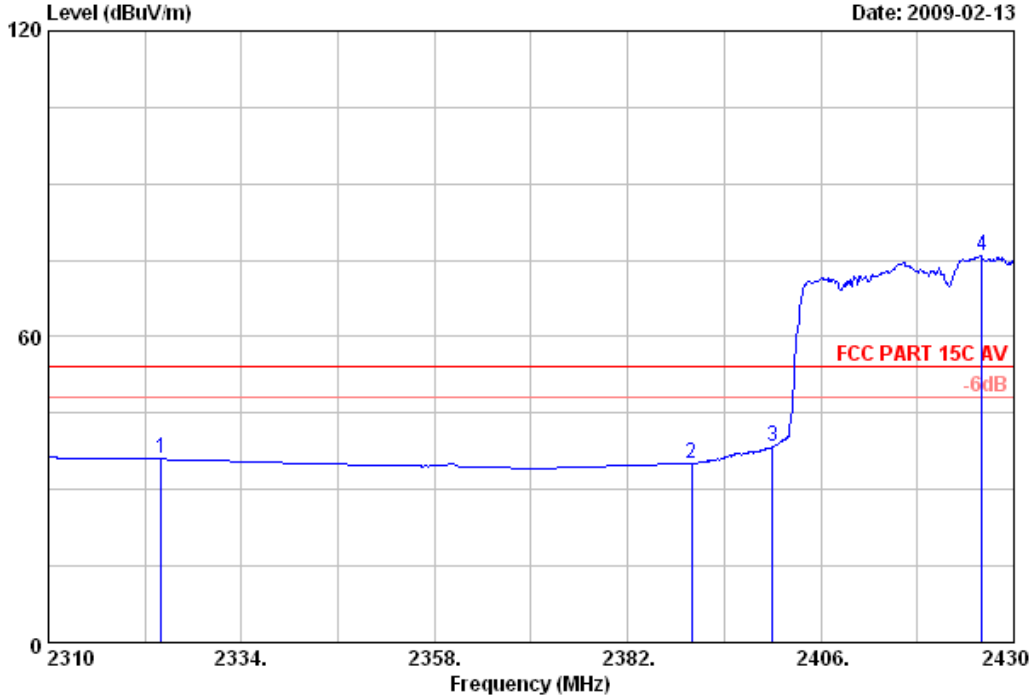
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 98
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|---------|
| | (MHz) | (dB/m) | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 2324.040 | 28.36 | 6.65 | 35.13 | 36.15 | 36.03 | 54.00 | 17.97 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 35.08 | 35.13 | 54.00 | 18.87 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 38.38 | 38.45 | 54.00 | 15.55 | Average |
| 4 | 2426.040 | 28.50 | 6.77 | 35.11 | 75.63 | 75.79 | 54.00 | -21.79 | Average |

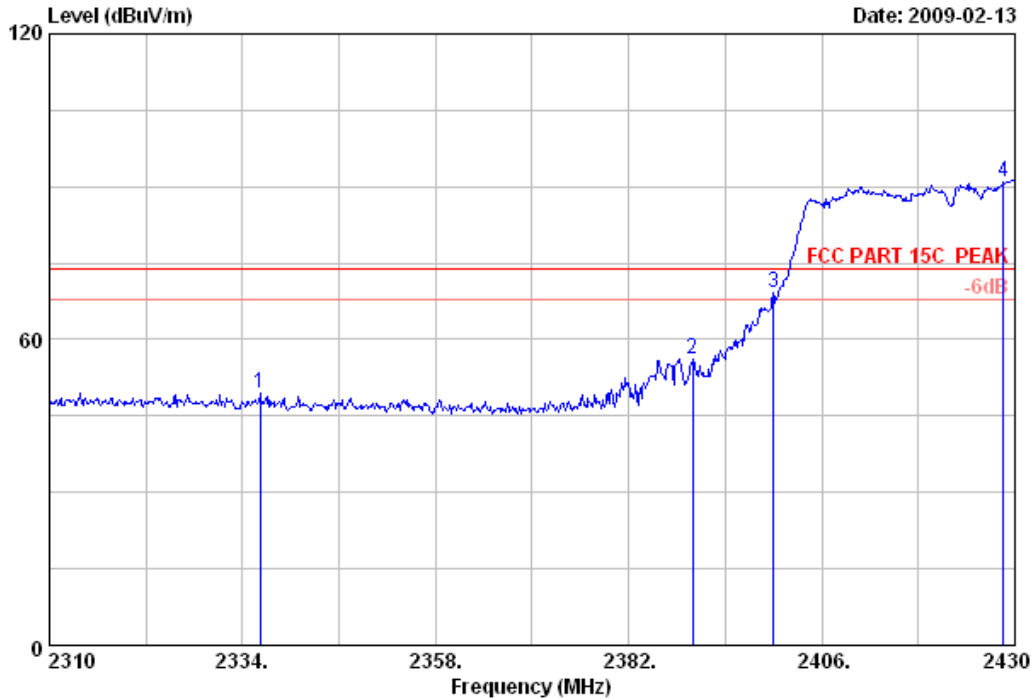
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 99
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2336.160 | 28.38 | 6.65 | 35.13 | 49.53 | 49.43 | 74.00 | 24.57 | Peak |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 56.16 | 56.21 | 74.00 | 17.79 | Peak |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 69.06 | 69.13 | 74.00 | 4.87 | Peak |
| 4 | 2428.560 | 28.50 | 6.77 | 35.11 | 90.62 | 90.78 | 74.00 | -16.78 | Peak |

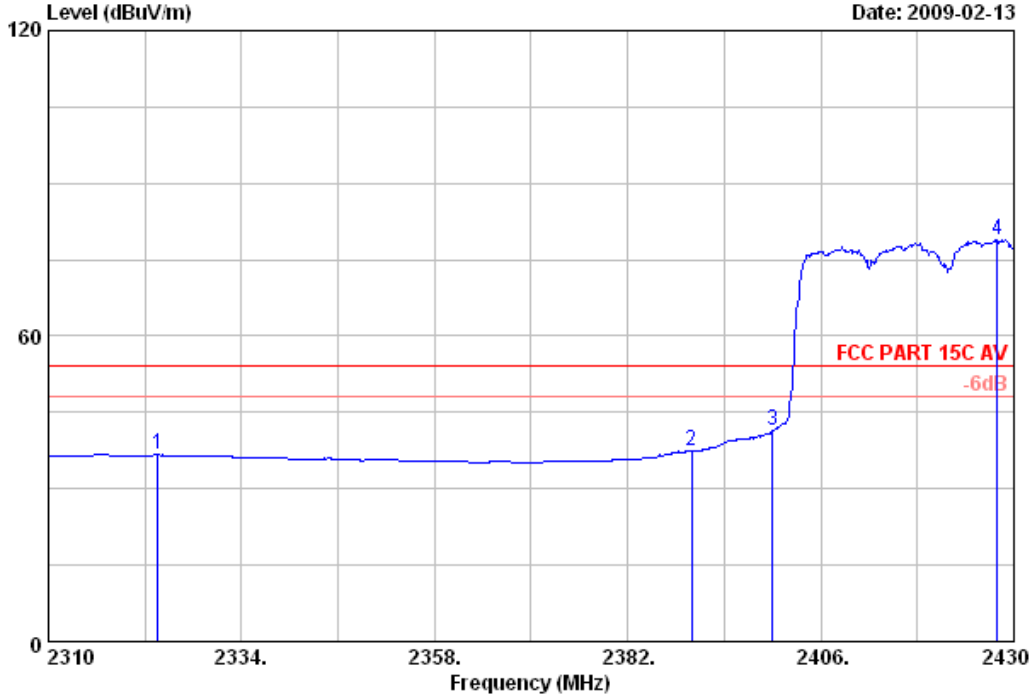
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 100
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N :

| | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark | |
|----------------|------------------|--------------|----------------|-------------------|-------------------|----------|--------|--------|---------|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2323.560 | 28.36 | 6.65 | 35.13 | 36.76 | 36.64 | 54.00 | 17.36 | Average |
| 2 | 2390.000 | 28.46 | 6.71 | 35.12 | 37.27 | 37.32 | 54.00 | 16.68 | Average |
| 3 | 2400.000 | 28.46 | 6.73 | 35.12 | 41.28 | 41.35 | 54.00 | 12.65 | Average |
| 4 | 2427.960 | 28.50 | 6.77 | 35.11 | 78.87 | 79.03 | 54.00 | -25.03 | Average |

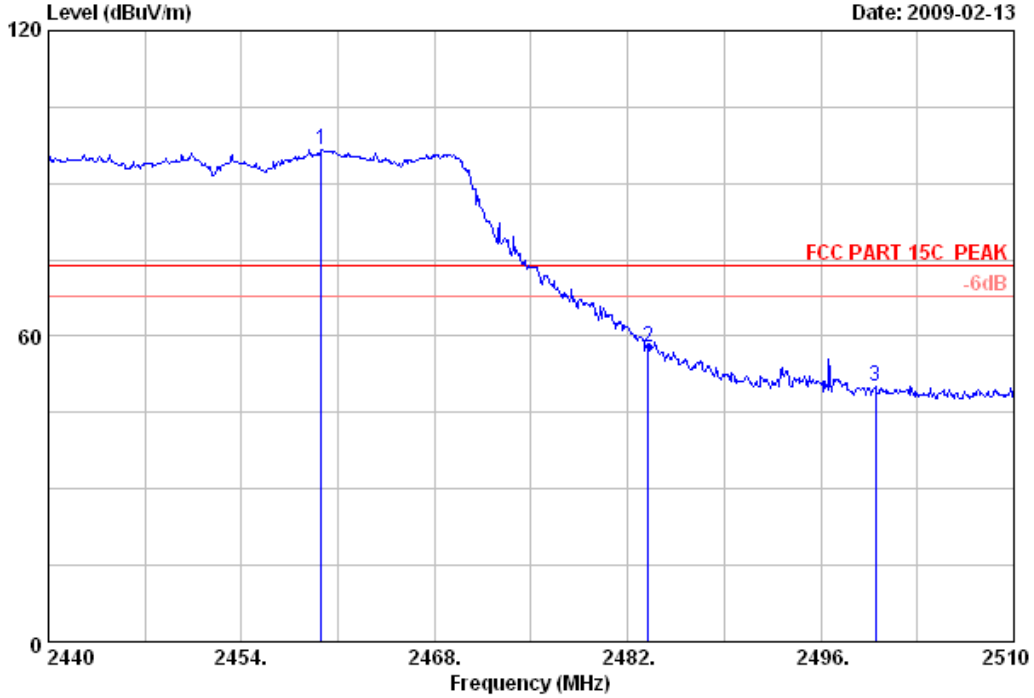
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3# Chamber Data no. : 101
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2459.810 | 28.55 | 6.84 | 35.11 | 96.32 | 96.60 | 74.00 | -22.60 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 57.45 | 57.80 | 74.00 | 16.20 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 49.65 | 50.06 | 74.00 | 23.94 | Peak |

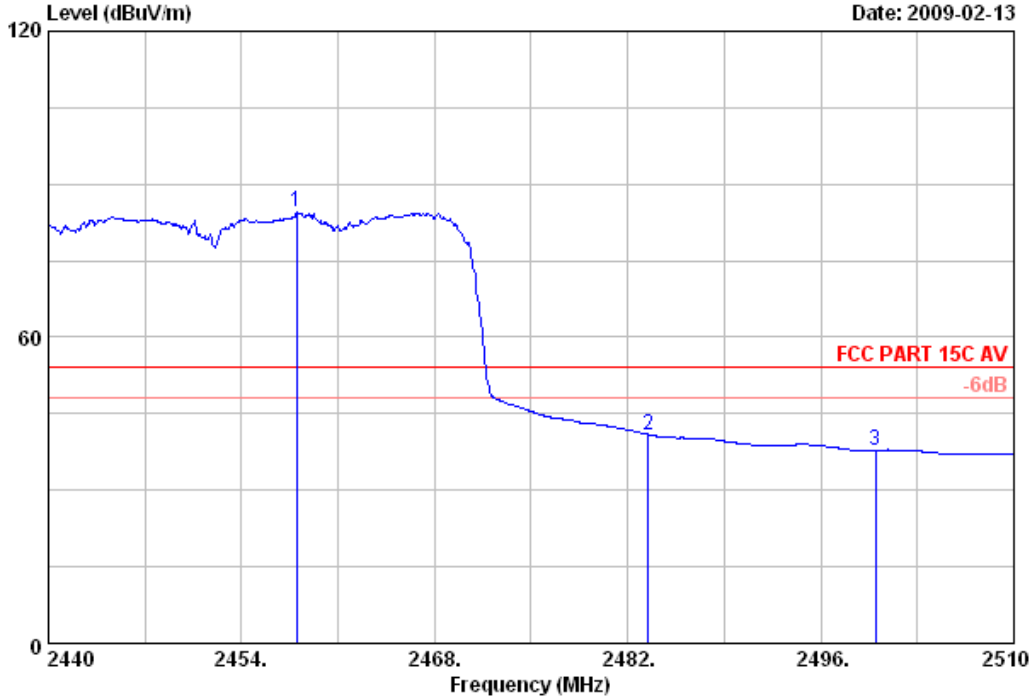
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 102 File: E:\2009 report data\P\Proware\ACS8Q2013.EM6 (104)



Site no. : 3# Chamber Data no. : 102
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2457.990 | 28.55 | 6.84 | 35.11 | 84.14 | 84.42 | 54.00 | -30.42 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 40.56 | 40.91 | 54.00 | 13.09 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 37.47 | 37.88 | 54.00 | 16.12 | Average |

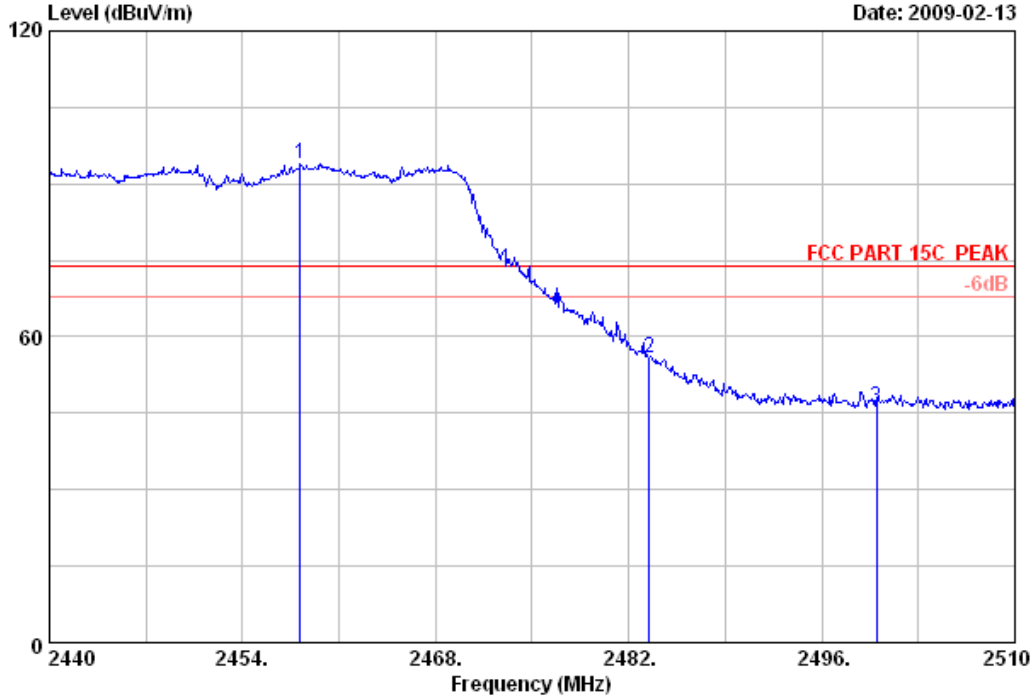
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,Block 52,
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Postcode:518057

Data: 103 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 103
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. | Ant. | Cable | Amp | Emission | | Limits | Margin | Remark |
|---|----------|--------|-------|--------|----------|----------|----------|--------|--------|
| | (MHz) | Factor | Loss | Factor | Reading | Level | (dBuV/m) | (dB) | |
| | | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | | | |
| 1 | 2458.200 | 28.55 | 6.84 | 35.11 | 93.52 | 93.80 | 74.00 | -19.80 | Peak |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 55.64 | 55.99 | 74.00 | 18.01 | Peak |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 45.86 | 46.27 | 74.00 | 27.73 | Peak |

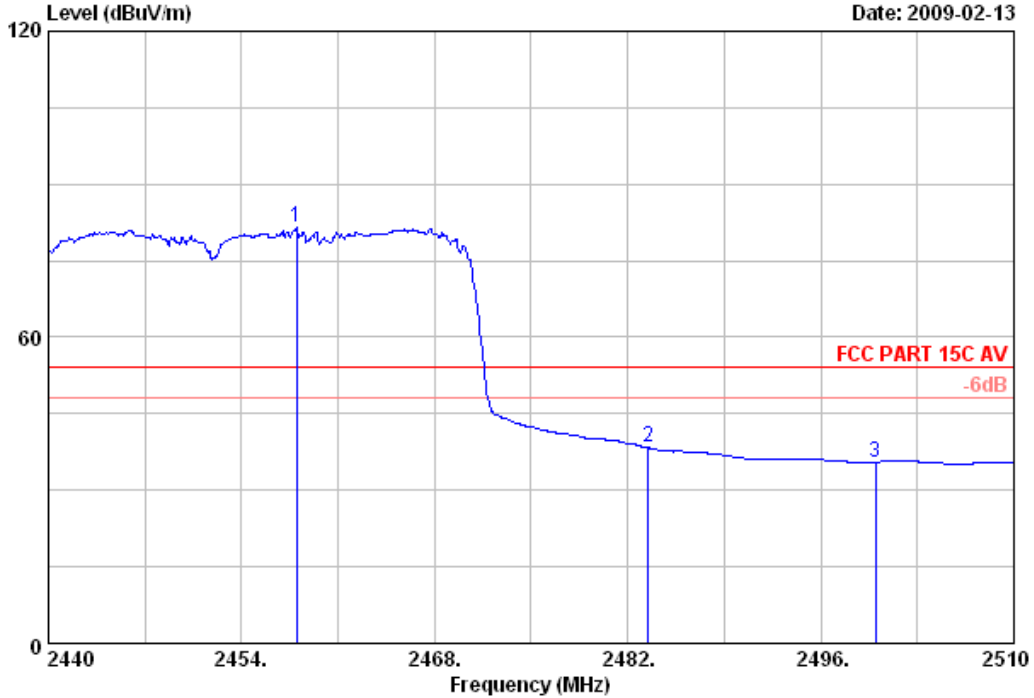
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 Postcode:518057

Data: 104 File: E:\2009 report data\P\Proware\ACS802013.EM6 (104)



Site no. : 3# Chamber Data no. : 104
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul
 EUT : Wireless N Cardbus Adapter M/N:M-WN910N
 Power Rating : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N :

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2457.990 | 28.55 | 6.84 | 35.11 | 81.27 | 81.55 | 54.00 | -27.55 | Average |
| 2 | 2483.500 | 28.58 | 6.87 | 35.10 | 38.06 | 38.41 | 54.00 | 15.59 | Average |
| 3 | 2500.000 | 28.60 | 6.91 | 35.10 | 35.13 | 35.54 | 54.00 | 18.46 | Average |

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May,10, 08 | 1 Year |
| 2 | Attenuator | Agilent | 8491B | MY39262165 | May,28, 08 | 1 Year |
| 3 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May,28, 08 | 1Year |

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

Test Mode: IEEE 802.11b TX

| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|----|---------------------|-------|-------------|
| 1 | 12.00 | >500 | PASS |
| 6 | 12.00 | >500 | PASS |
| 11 | 12.00 | >500 | PASS |

Test Mode: IEEE 802.11g TX

| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|----|---------------------|-------|-------------|
| 1 | 16.40 | >500 | PASS |
| 6 | 16.40 | >500 | PASS |
| 11 | 16.40 | >500 | PASS |

Test Mode: IEEE 802.11n HT20 TX

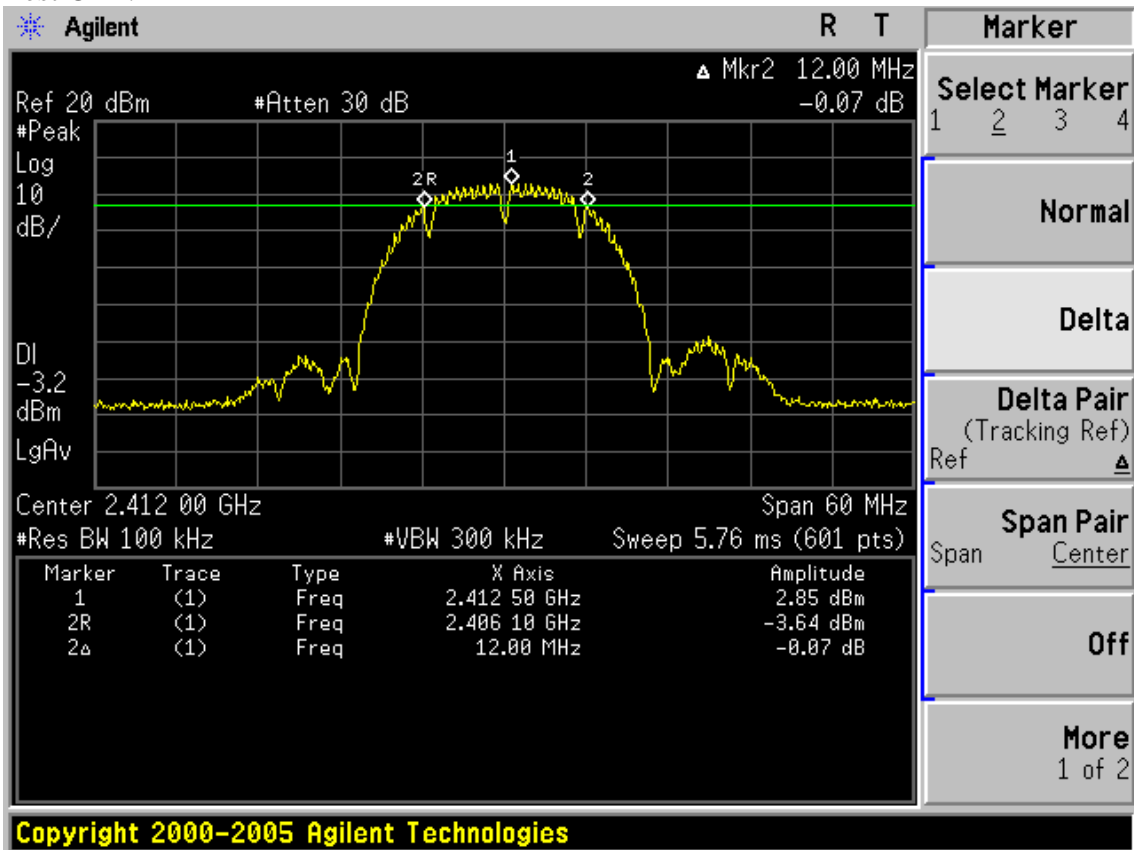
| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|----|---------------------|-------|-------------|
| 1 | 17.87 | >500 | PASS |
| 6 | 17.87 | >500 | PASS |
| 11 | 17.73 | >500 | PASS |

Test Mode: IEEE 802.11n HT40 TX

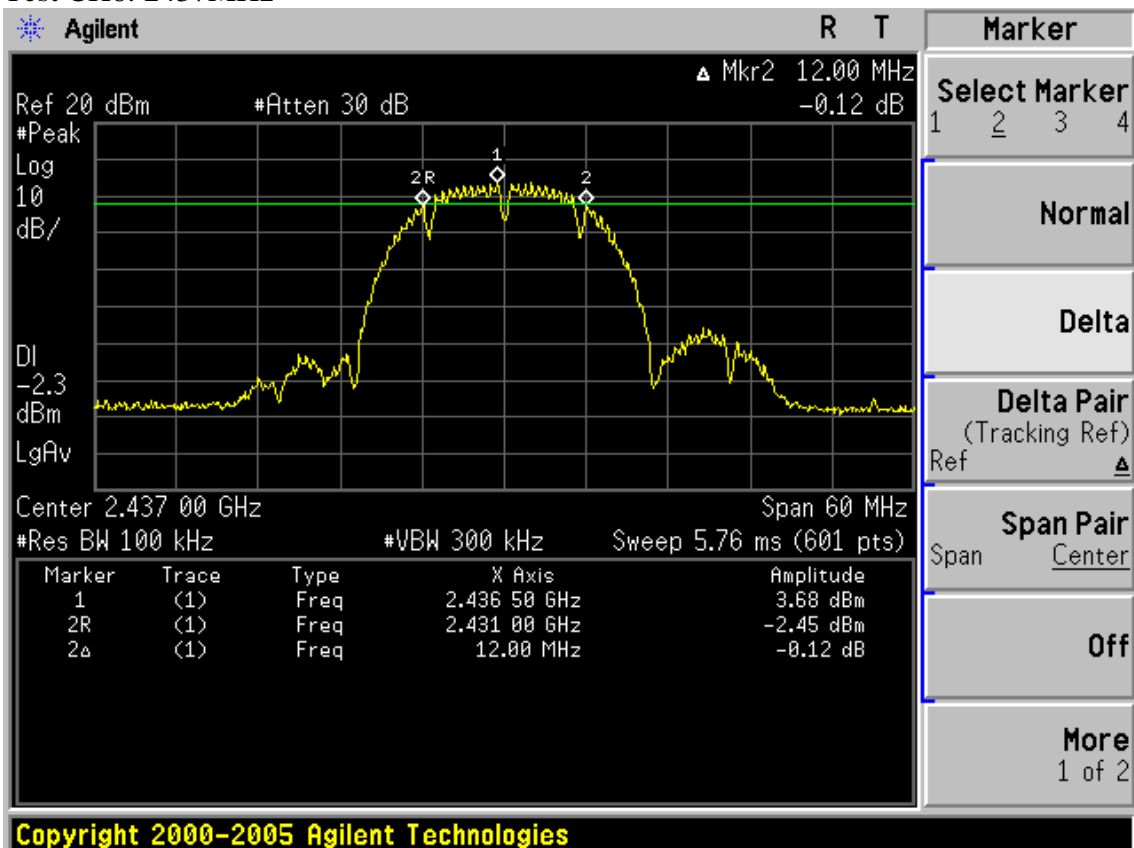
| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|----|---------------------|-------|-------------|
| 1 | 36.40 | >500 | PASS |
| 4 | 36.40 | >500 | PASS |
| 7 | 36.40 | >500 | PASS |

Test Mode: IEEE 802.11b TX

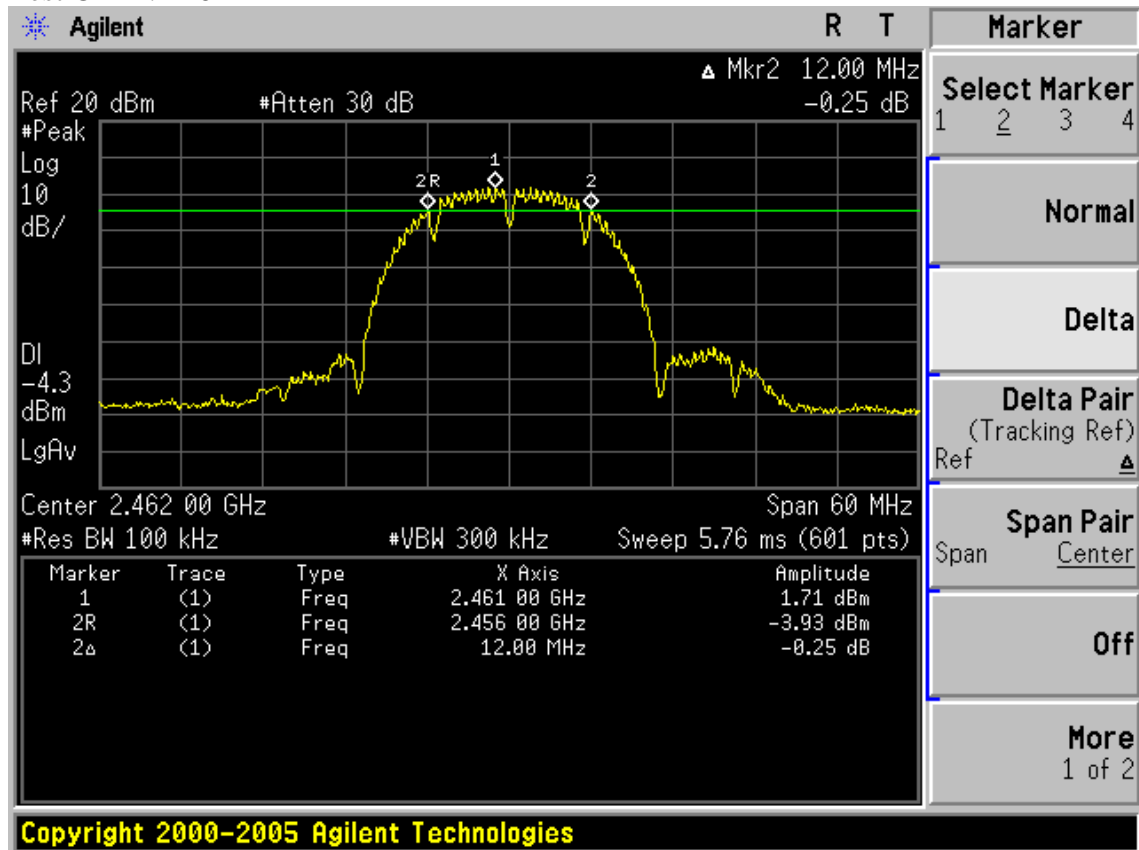
Test CH1: 2412MHz



Test CH6: 2437MHz

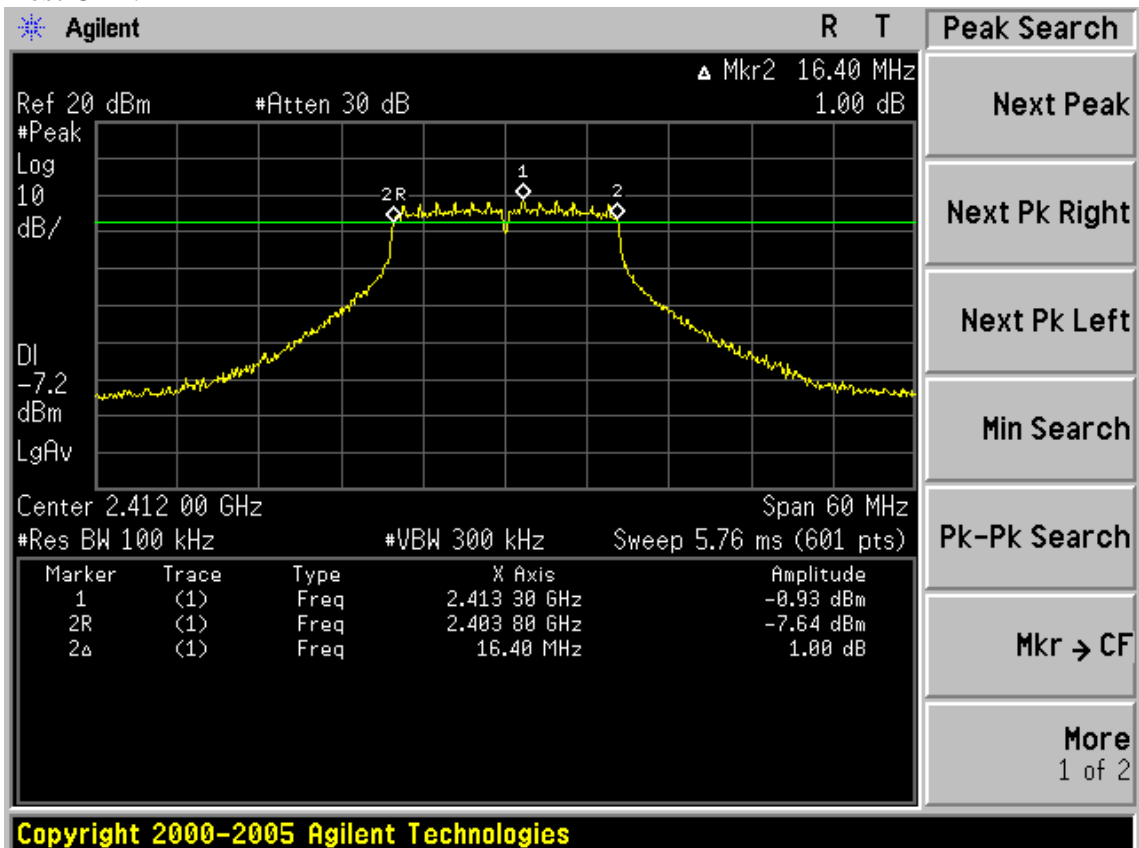


Test CH1: 2462MHz

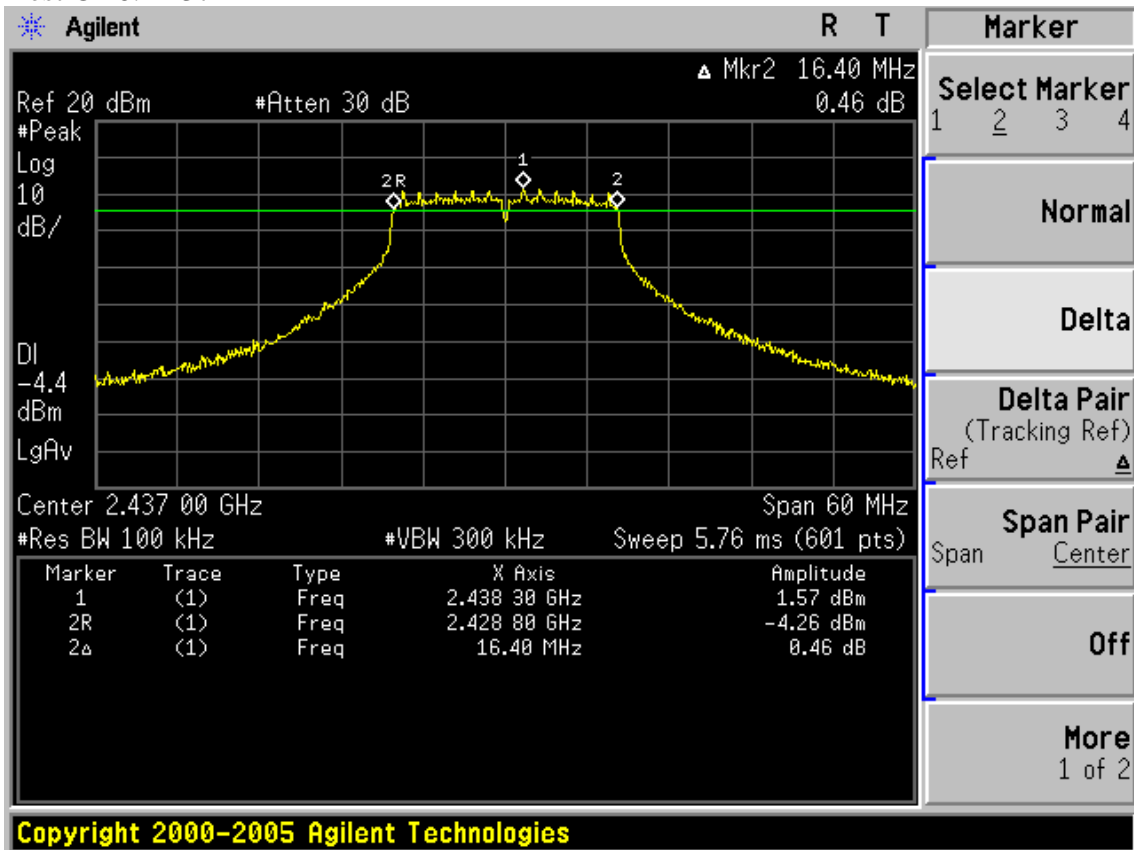


Test Mode: IEEE 802.11g TX

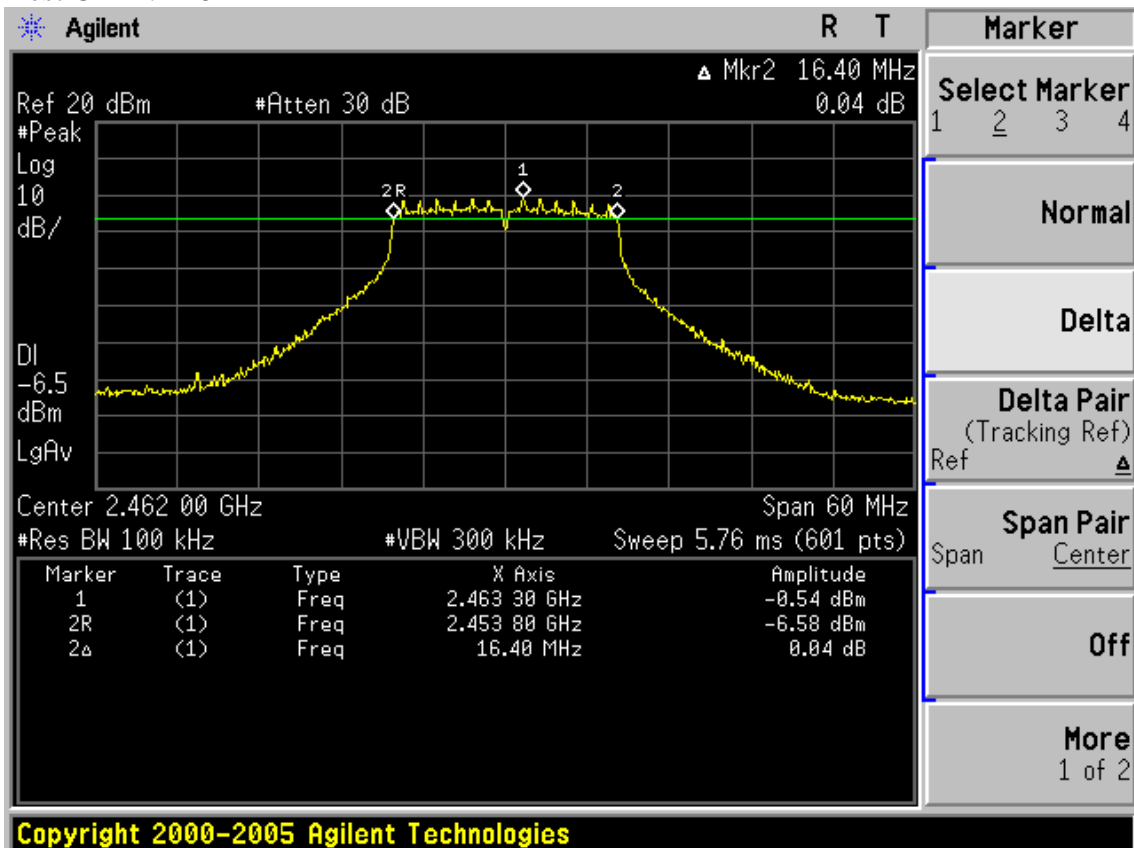
Test CH1: 2412MHz



Test CH6: 2437MHz

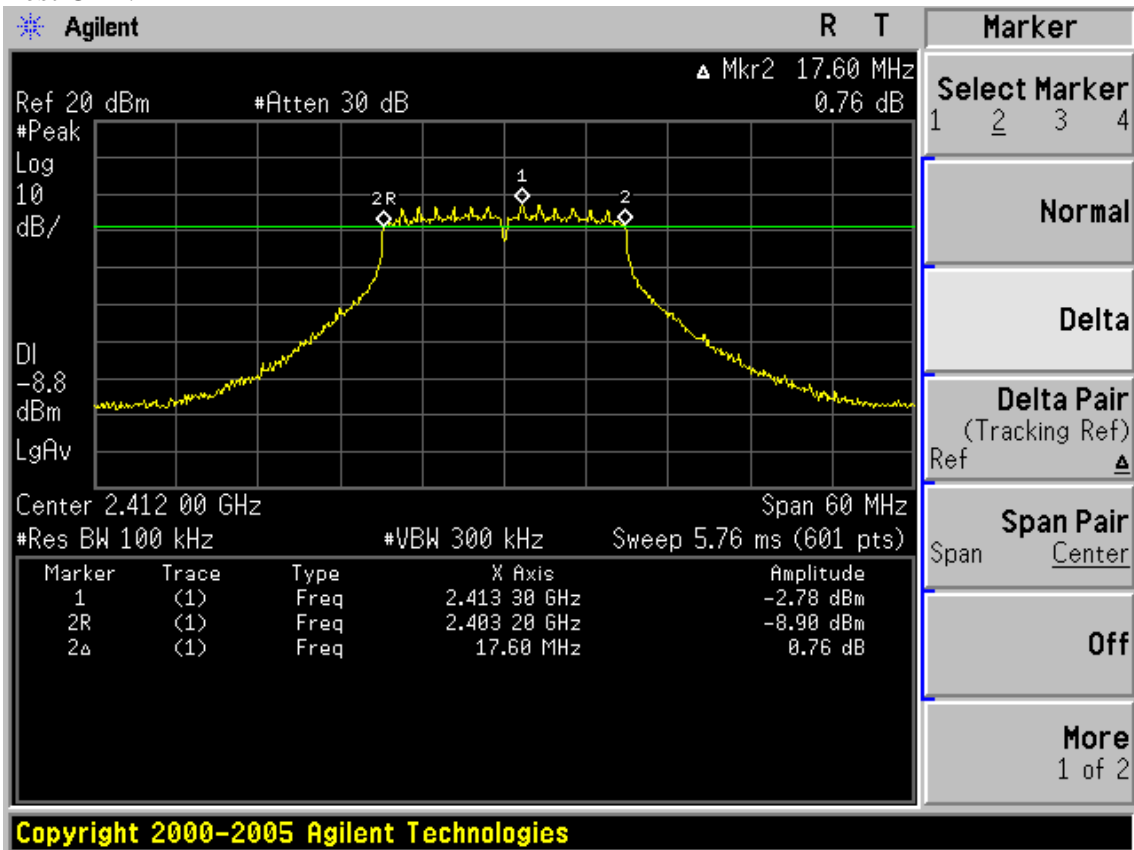


Test CH11: 2462MHz

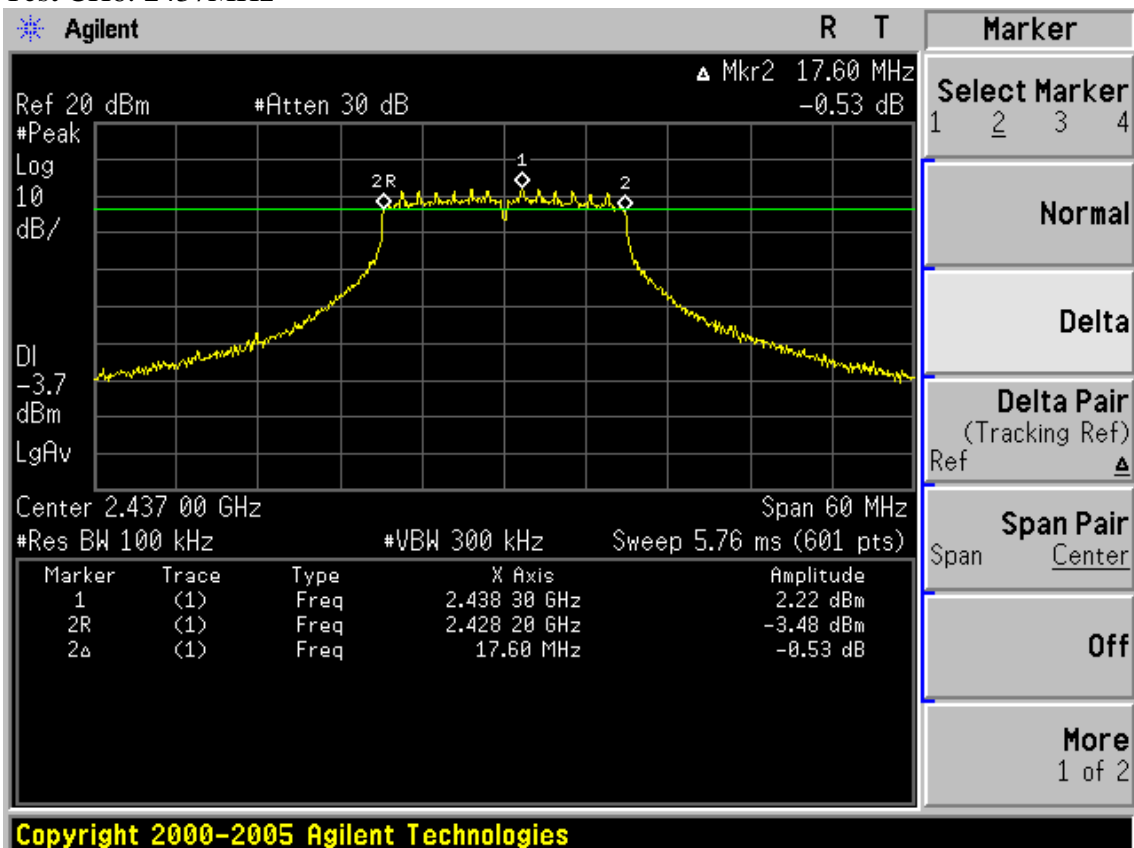


Test Mode: IEEE 802.11n HT20 TX

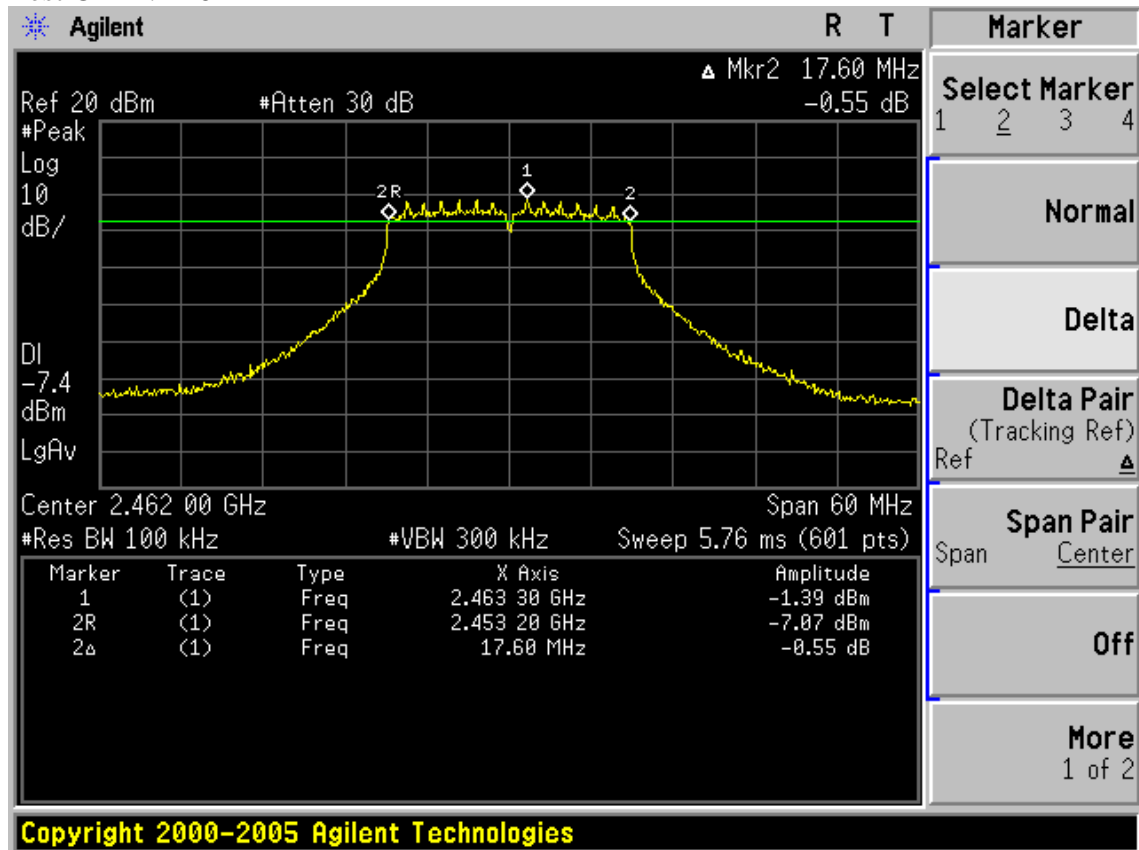
Test CH1: 2412MHz



Test CH6: 2437MHz

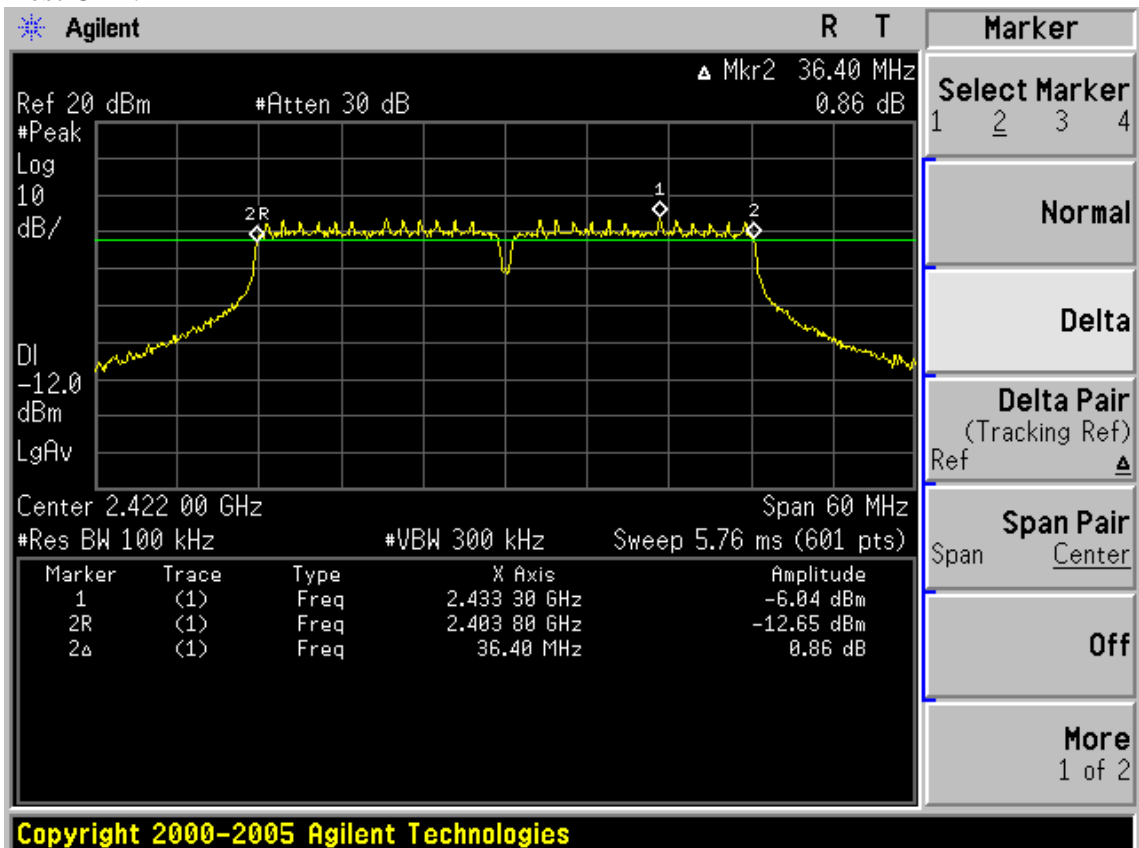


Test CH1: 2462MHz

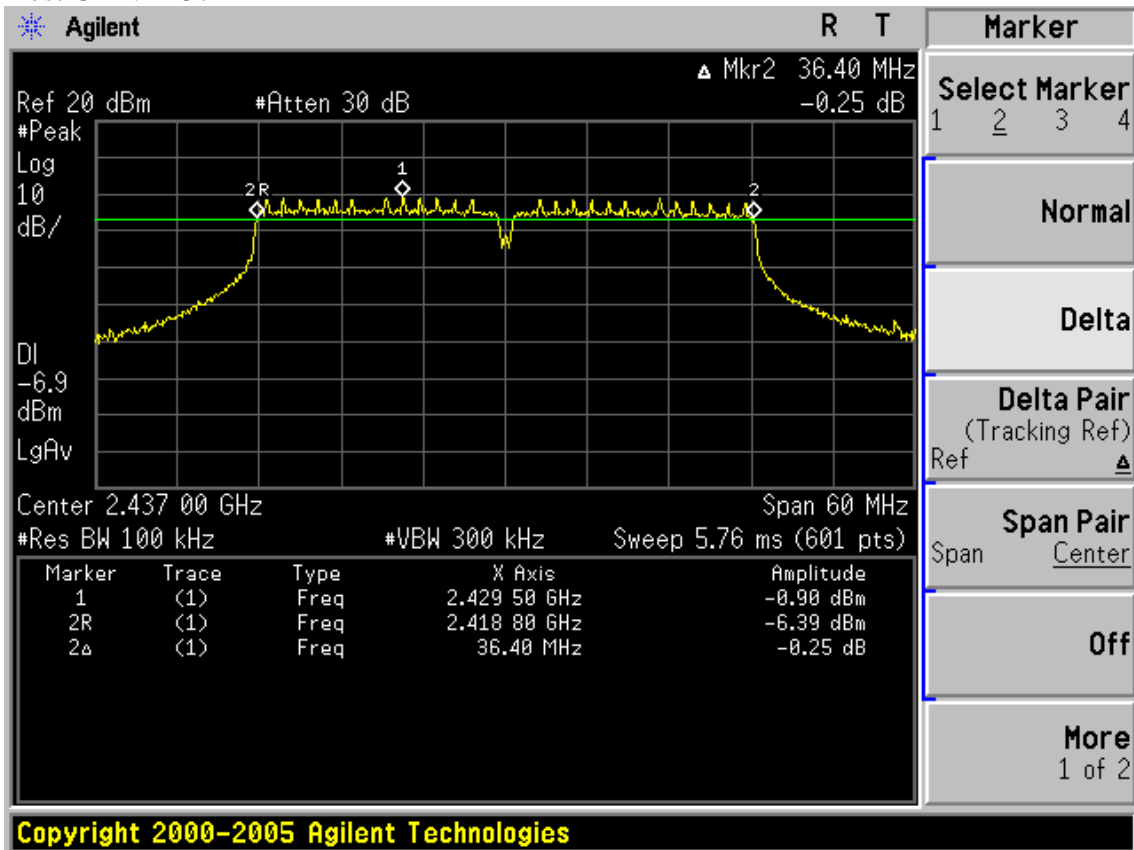


Test Mode: IEEE 802.11n HT40 TX

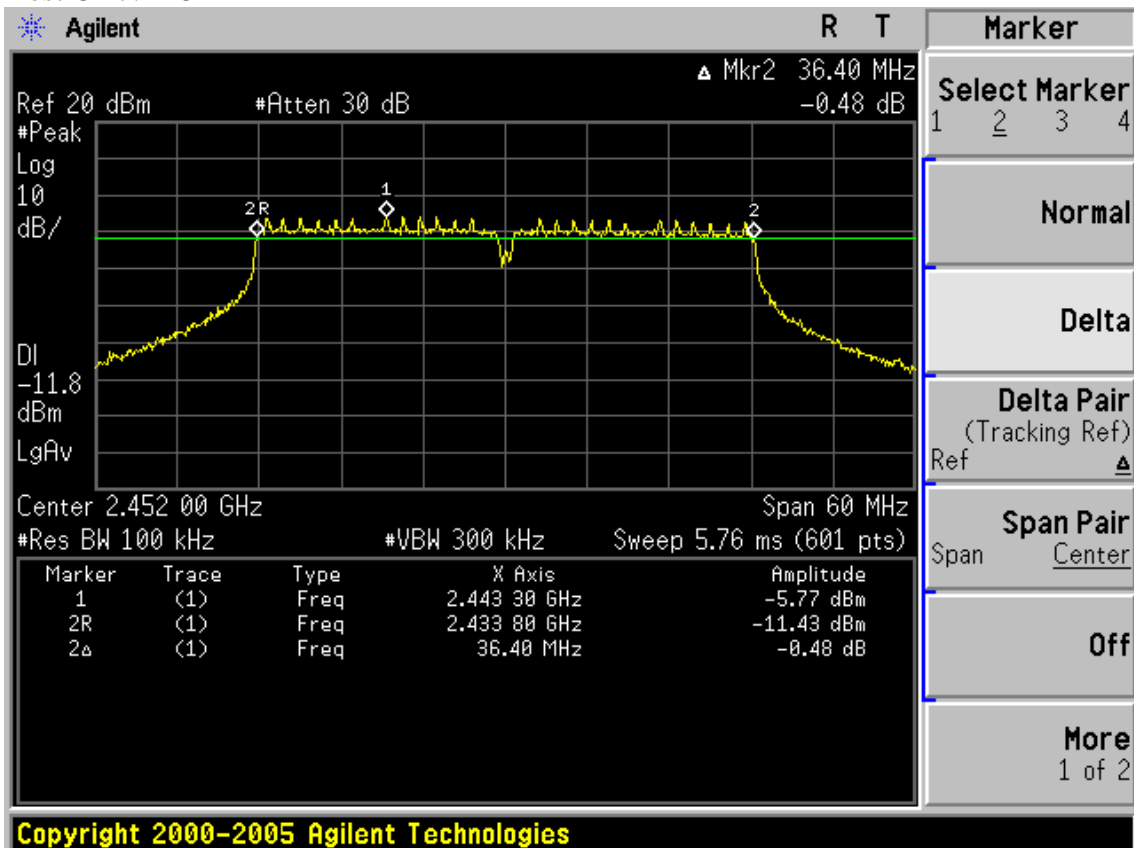
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|----------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May,10, 08 | 1 Year |
| 2 | Attenuator | Agilent | 8491B | MY3926216 5 | May,28, 08 | 1 Year |
| 3 | Power meter | Anritsu | ML2487A | 6K00002472 | May,10, 08 | 1 Year |
| 4 | Power sensor | Anritsu | ML2491A | 032516 | May,10, 08 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May,28, 08 | 1Year |

8.2. Limit(FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

8.3. Test Procedure

- 1, For IEEE 802.11b/g and IEEE802.11n HT20 mode, the transmitter output was connected to a power meter, use the power meter to read out the peak out put power of each chain's
- 2, For IEEE802.11n HT40 mode the transmitter output was connected to a Spectrum Analyzer through a 20dB Attenuator, and use the channel power measure function of Spectrum Analyzer to read out the peak output power of each chain's
- 3, Getting total PK out put power by adding chain 1 and chain 2's measured PK out put power.

8.4.Test Results

| EUT: Wireless N Cardbus Adapter M/N: TL-WN910N | | | | | |
|--|------------------|--------------------------------------|------------------------|---------------------|-------------|
| Power: DC 3.3V From PC Input AC 120V/60Hz | | | | | |
| Data Rate:11b 1Mbps ; 11g : 6Mbps ; 11n HT20 : 6.5Mbps ; 11n HT40 : 13.5Mbps(Note 1) | | | | | |
| Ambient Temperature:23°C | | | Relative Humidity: 60% | | |
| Test date:2009-03-03 | | Test site: RF site | | Tested By: Jamy | |
| Cable Loss: 0.6dB Antenna Gain:0.59dBi | | | | | |
| Test CH | 11b,11g,11n HT20 | CH1:2412MHz CH6:2437MHz CH11:2462MHz | | | |
| Test CH | 11n HT40 | CH1:2422MHz CH4:2437MHz CH7:2452MHz | | | |
| Mode | CH | Chain1 | Chain2 | Result | |
| | | Level(dBm) | Level(dBm) | Total PK Power(dBm) | Limit (dBm) |
| 11b | CH1 | 19.56 | 18.85 | 22.23 | 30.00 |
| | CH6 | 20.23 | 19.17 | 22.74 | 30.00 |
| | CH11 | 18.51 | 17.83 | 21.19 | 30.00 |
| 11g | CH1 | 21.69 | 21.20 | 24.46 | 30.00 |
| | CH6 | 25.45 | 25.65 | 28.56 | 30.00 |
| | CH11 | 24.06 | 21.59 | 26.01 | 30.00 |
| 11n HT20 | CH1 | 21.25 | 20.86 | 24.07 | 30.00 |
| | CH6 | 25.56 | 25.87 | 28.73 | 30.00 |
| | CH11 | 21.43 | 21.32 | 24.39 | 30.00 |
| 11n HT40 | CH1 | 21.43 | 19.88 | 23.73 | 30.00 |
| | CH4 | 26.00 | 24.76 | 28.43 | 30.00 |
| | CH7 | 21.11 | 20.37 | 23.77 | 30.00 |
| Note1:According Exploratory test, These data rate have the maximum output power | | | | | |
| Note 2: Total power=Chain1 Level +Chain2 Level (Linear) | | | | | |



9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-----------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May,10, 08 | 1 Year |
| 2 | Attenuator | Agilent | 8491B | MY39262165 | May,28, 08 | 1 Year |
| 3 | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May,28, 08 | 1Year |

9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

The transmitter output was connected to a spectrum analyzer . Each chain's power density was measured by spectrum analyzer with 3kHz RBW and 30kHz VBW, sweep time=span/3kHz.

Getting total power density by adding chain 1 and chain 2's measured power density.

9.4. Test Results

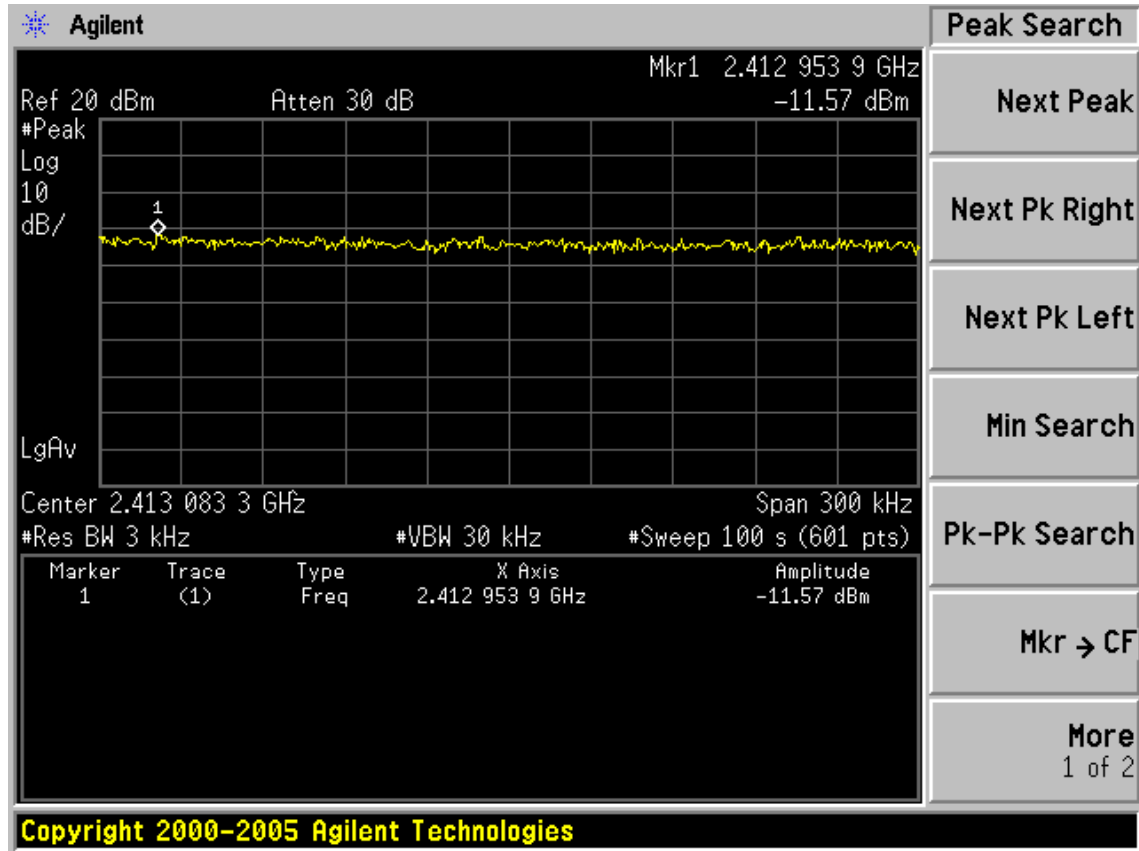
| EUT: Wireless N Cardbus Adapter M/N:TL-WN910N | | | | | | | |
|--|-------------------|-----------------|--------------------------------------|------------------------|------------------|------------------------|------------------|
| Power: DC 3.3V From PC Input AC 120V/60Hz | | | | | | | |
| Data Rate:11b 1Mbps ; 11g : 6Mbps ; 11n HT20 : 6.5Mbps ; 11n HT40 : 13.5Mbps(Note 1) | | | | | | | |
| Ambient Temperature:23°C | | | | Relative Humidity: 60% | | | |
| Test date:2009/03/03 | | | Test site: RF site | | Tested By: Sunny | | |
| Cable Loss: 0.6dB Antenna Gain:0.59dBi | | | | | | | |
| Test CH | 11b,11g, 11n HT20 | | CH1:2412MHz CH6:2437MHz CH11:2462MHz | | | | |
| Test CH | 11n HT40 | | CH1:2422MHz CH4:2437MHz CH7:2452MHz | | | | |
| Mode | CH | Chain1 | | Chain2 | | Result | |
| | | Read (dBm/3KHz) | Level (dBm/3KHz) | Read (dBm/3KHz) | Level (dBm/3KHz) | Total Power (dBm/3KHz) | Limit (dBm/3KHz) |
| 11b | CH1 | -11.57 | -10.97 | -11.61 | -11.01 | -7.98 | 8 |
| | CH6 | -11.20 | -10.60 | -9.99 | -9.39 | -6.94 | 8 |
| | CH11 | -12.89 | -12.29 | -12.65 | -12.05 | -9.16 | 8 |
| 11g | CH1 | -17.47 | -16.87 | -16.79 | -16.19 | -13.51 | 8 |
| | CH6 | -12.33 | -11.73 | -11.76 | -11.16 | -8.43 | 8 |
| | CH11 | -17.27 | -16.67 | -14.23 | -13.63 | -11.88 | 8 |
| 11n HT20 | CH1 | -17.44 | -16.84 | -17.35 | -16.75 | -13.78 | 8 |
| | CH6 | -12.38 | -11.78 | -10.57 | -9.97 | -7.77 | 8 |
| | CH11 | -15.62 | -15.02 | -14.36 | -13.76 | -11.33 | 8 |
| 11n HT40 | CH1 | -19.54 | -18.94 | -19.28 | -18.68 | -15.80 | 8 |
| | CH4 | -14.93 | -14.33 | -11.71 | -11.11 | -9.42 | 8 |
| | CH7 | -19.08 | -18.48 | -15.04 | -14.41 | -13.00 | 8 |
| Note1:According Exploratory test, These data rate have the maximum output power | | | | | | | |
| Note2:Level=Read+ cable loss Total power=Chain1 Level +Chain2 Level (Linear) | | | | | | | |



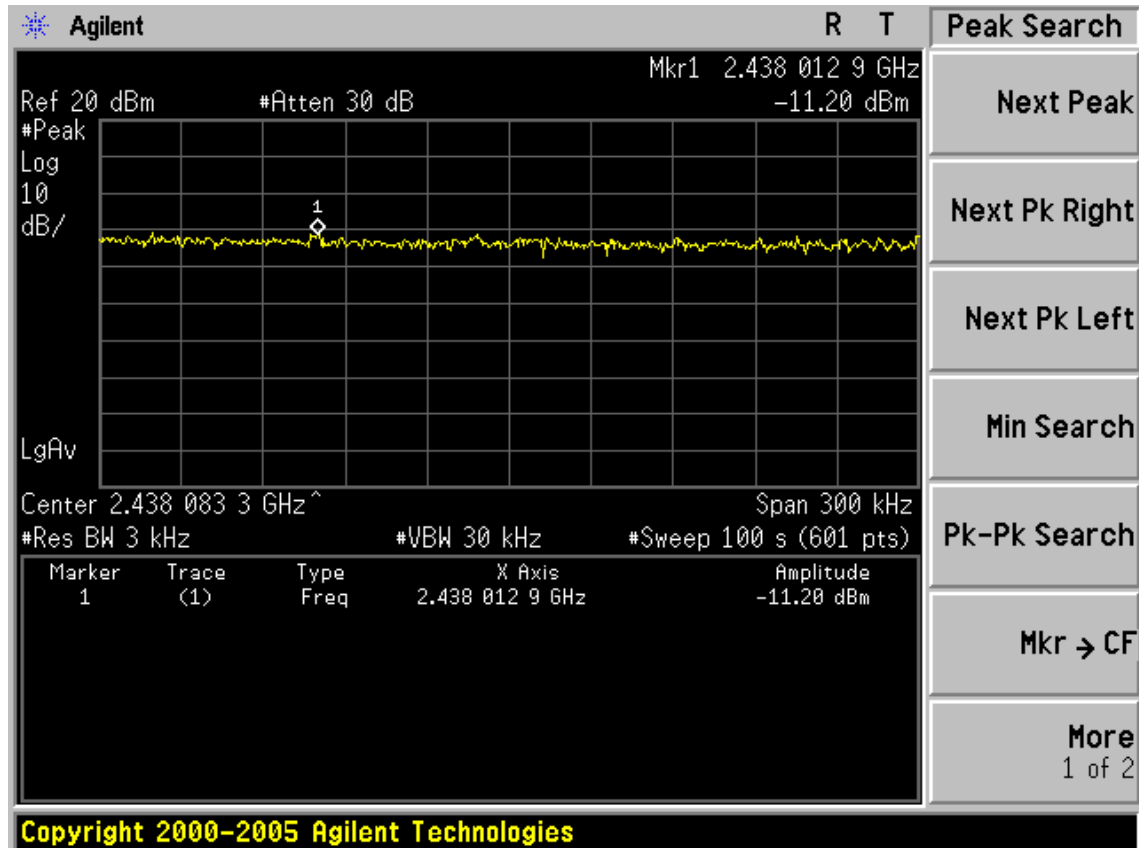
Chain 1:

Test Mode: IEEE 802.11b TX

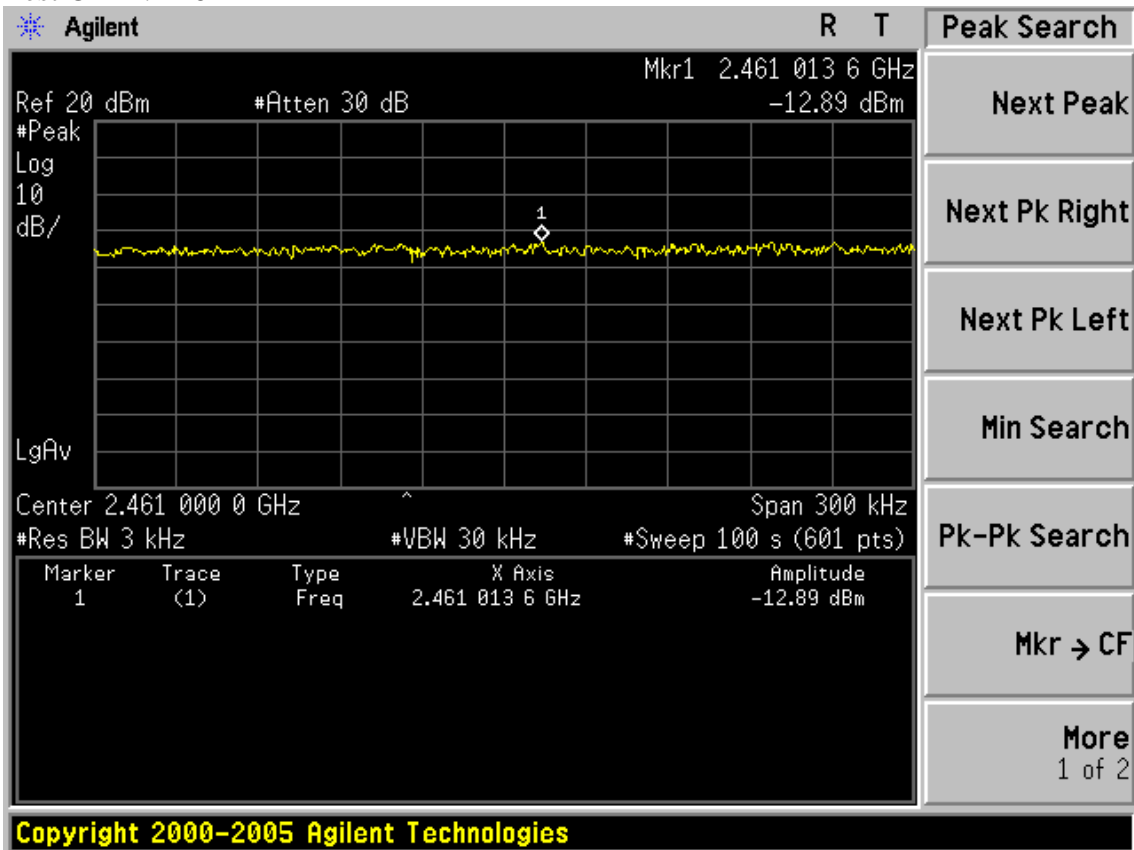
Test CH1: 2412MHz



Test CH6: 2437MHz

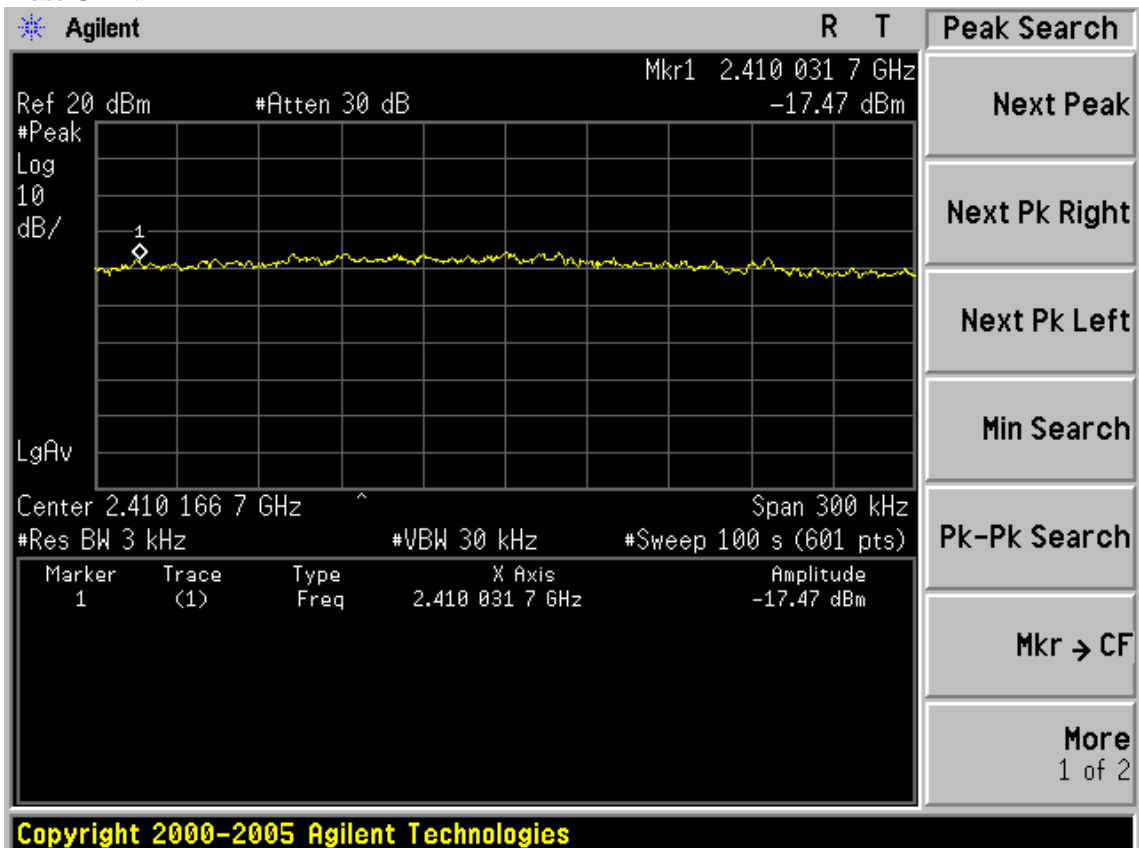


Test CH1: 2462MHz

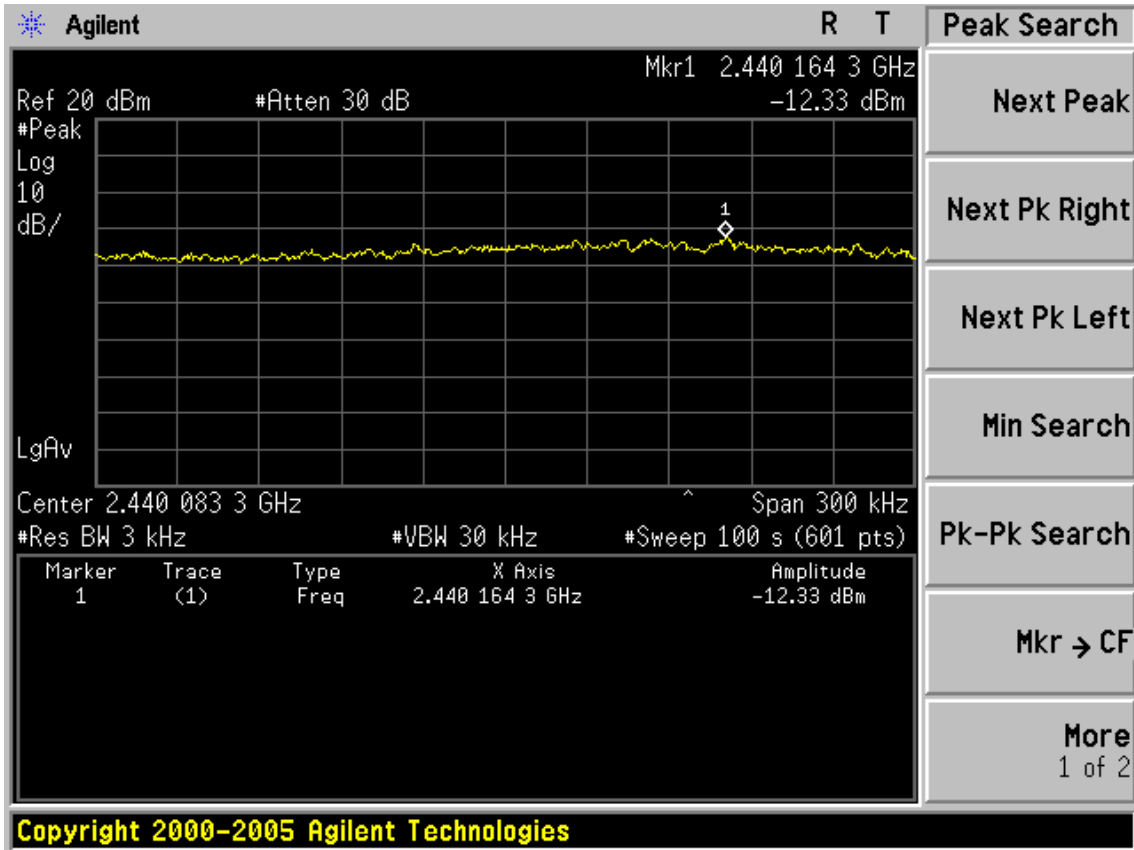


Test Mode: IEEE 802.11g TX

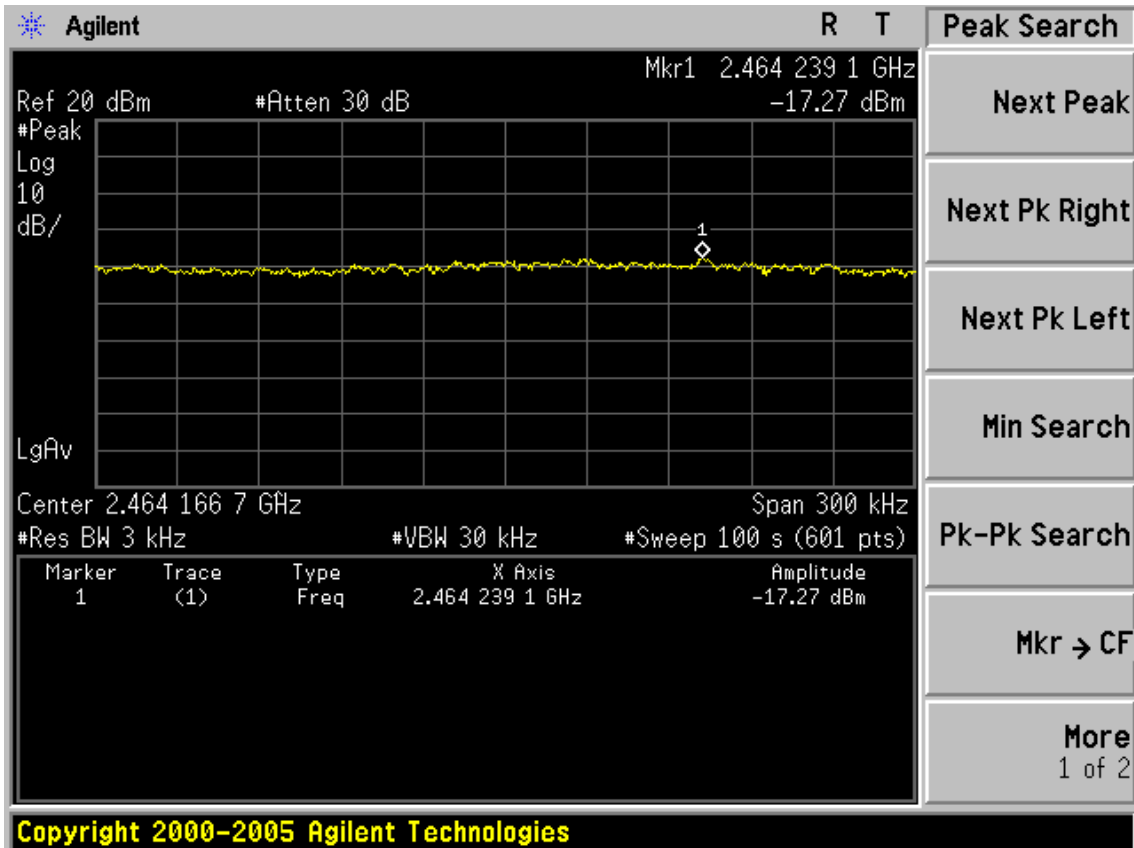
Test CH1: 2412MHz



Test CH6: 2437MHz

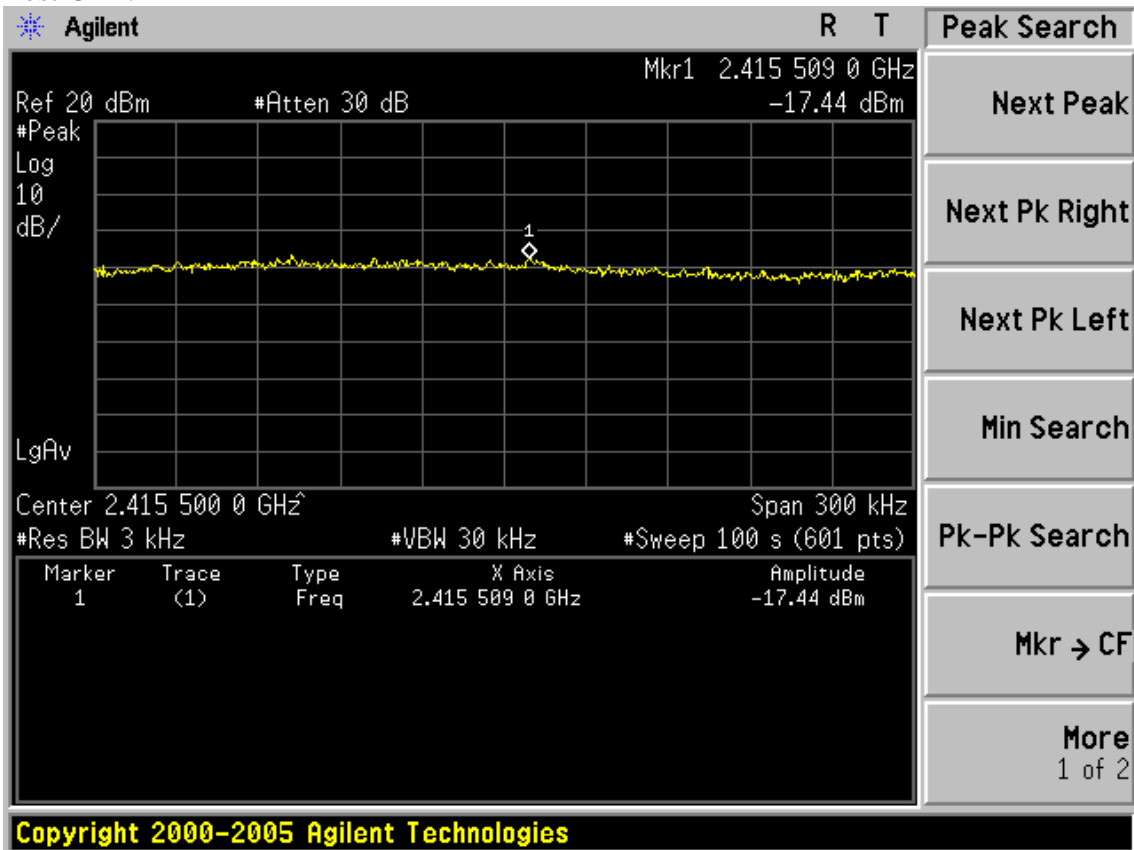


Test CH11: 2462MHz

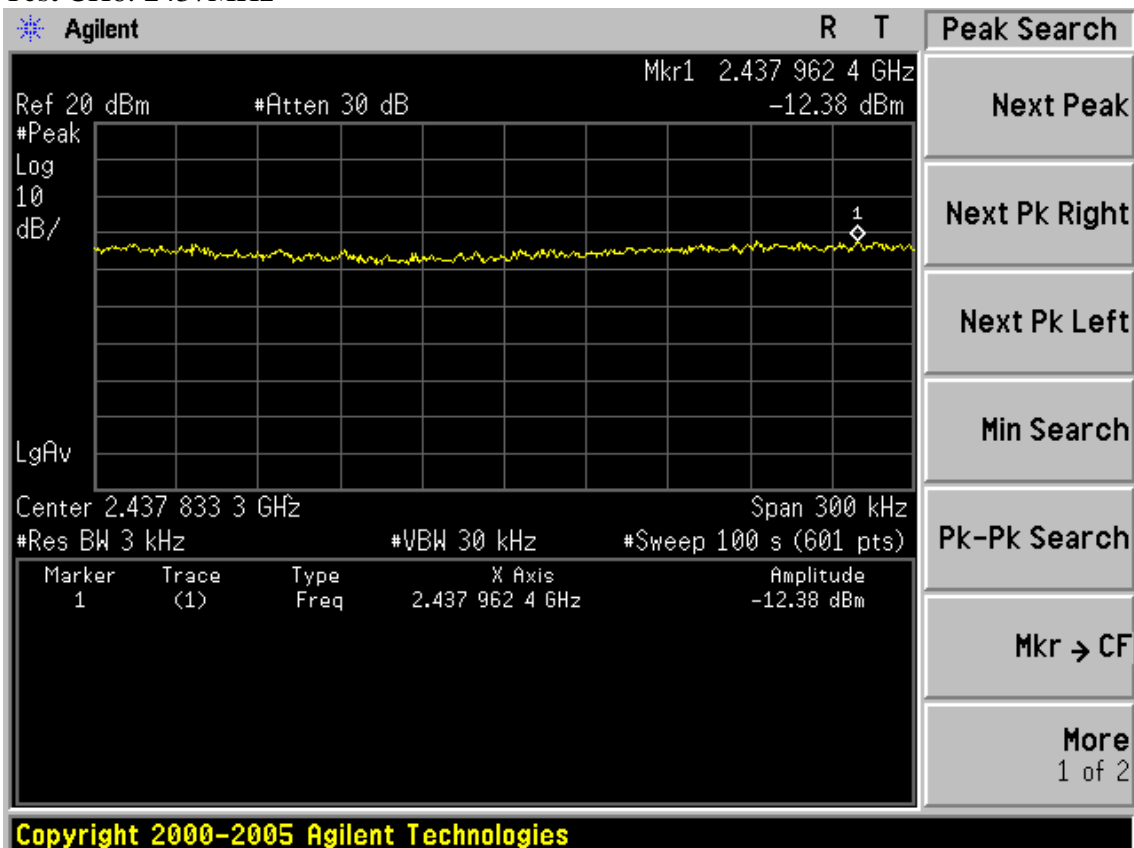


Test Mode: IEEE 802.11n HT20 TX

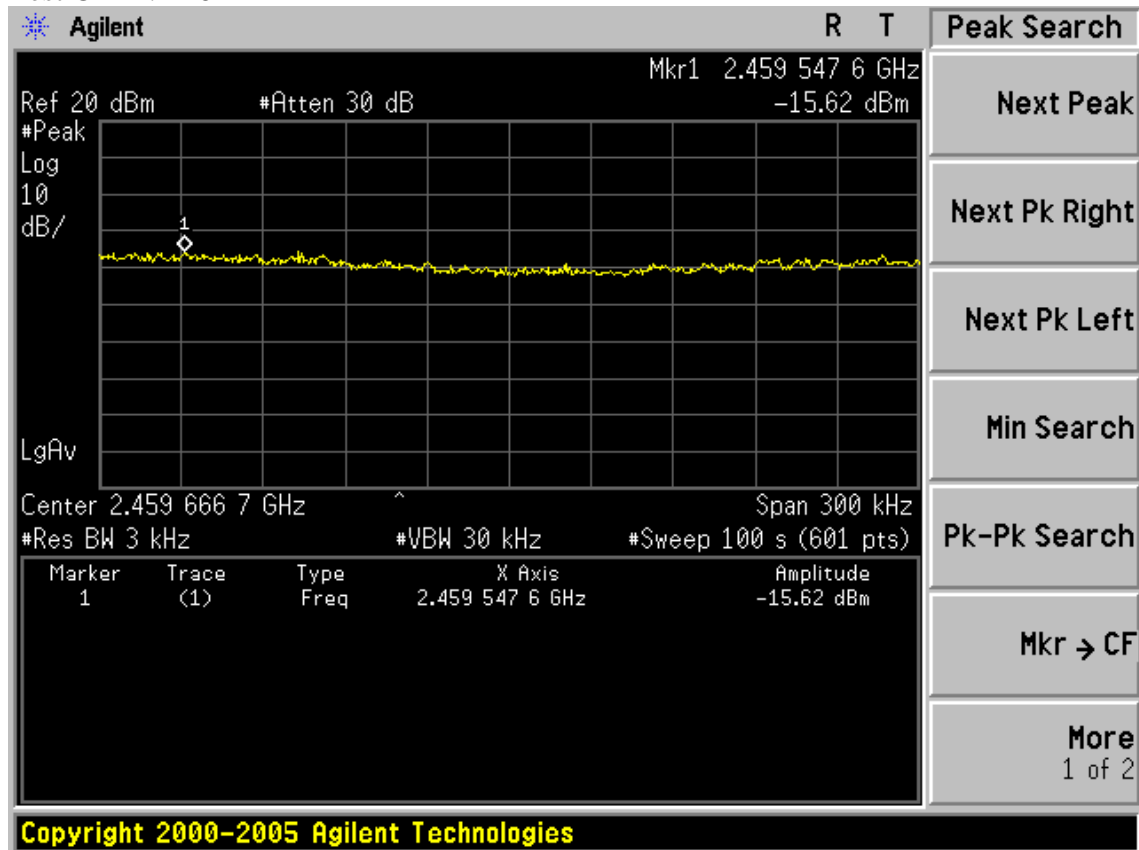
Test CH1: 2412MHz



Test CH6: 2437MHz

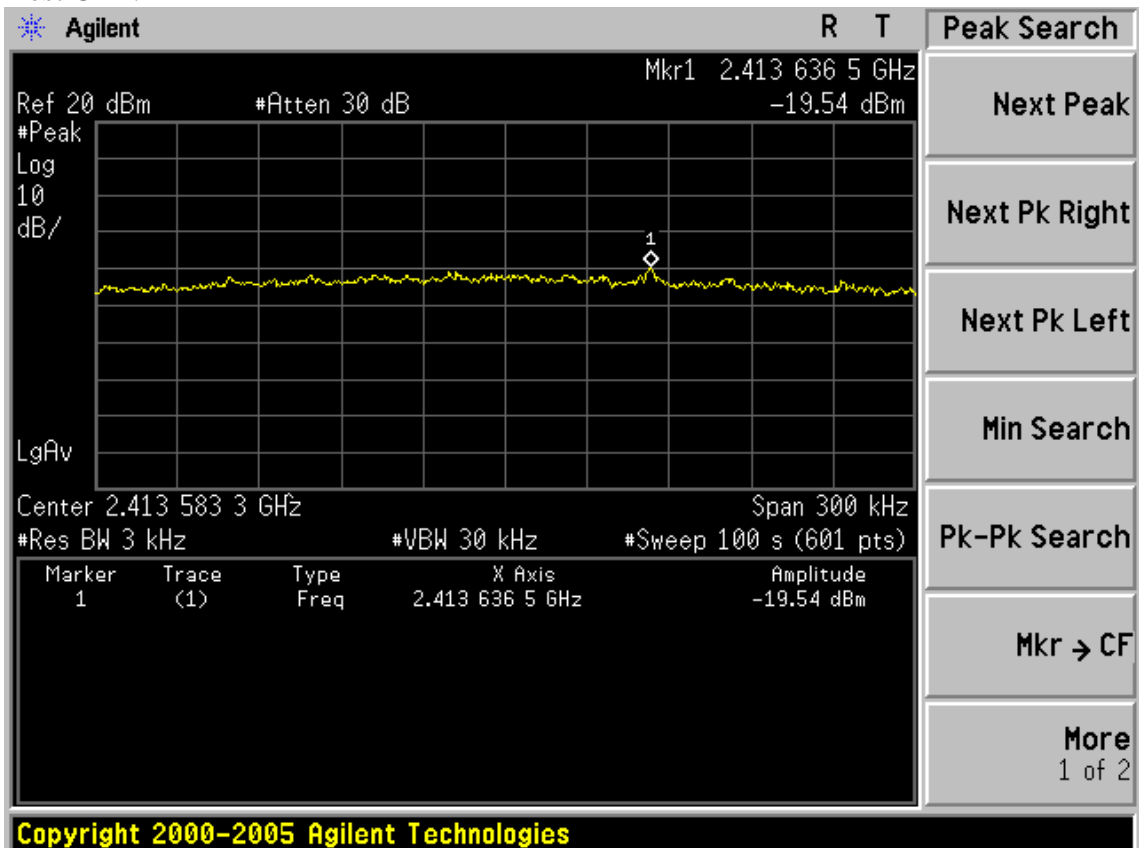


Test CH1: 2462MHz

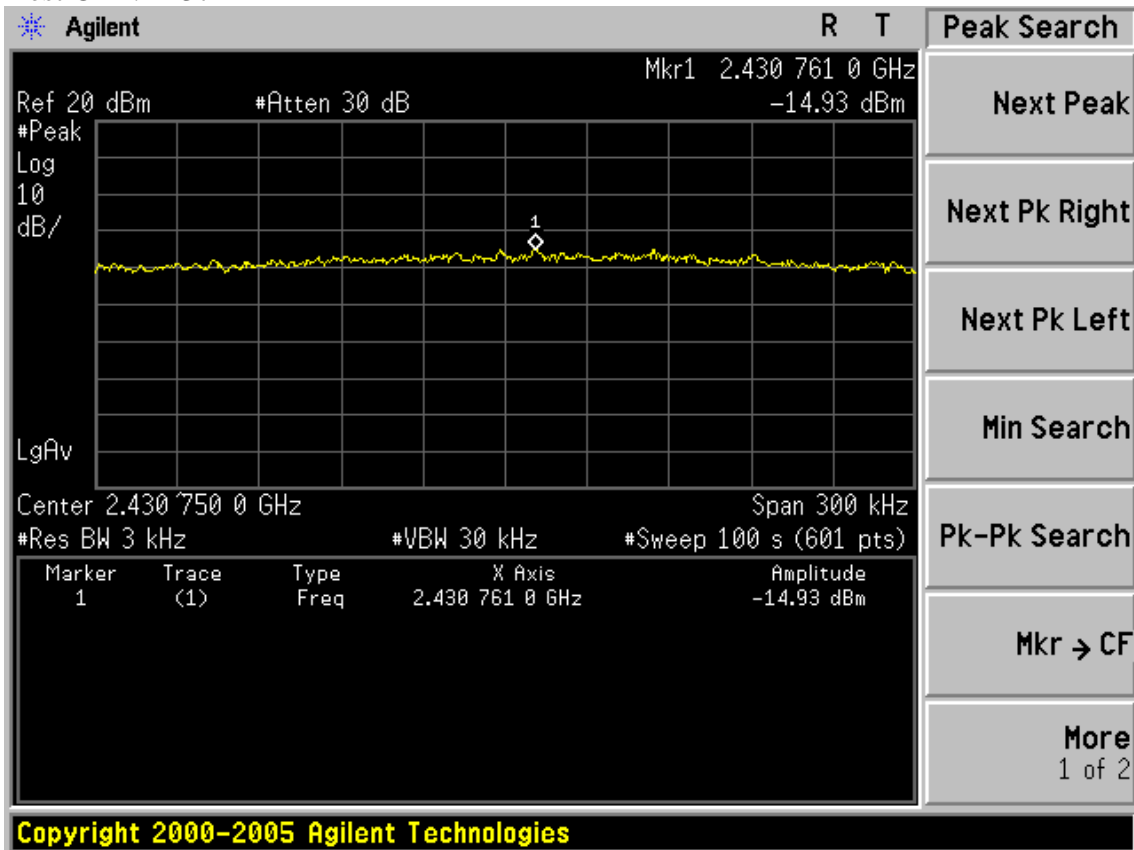


Test Mode: IEEE 802.11n HT40 TX

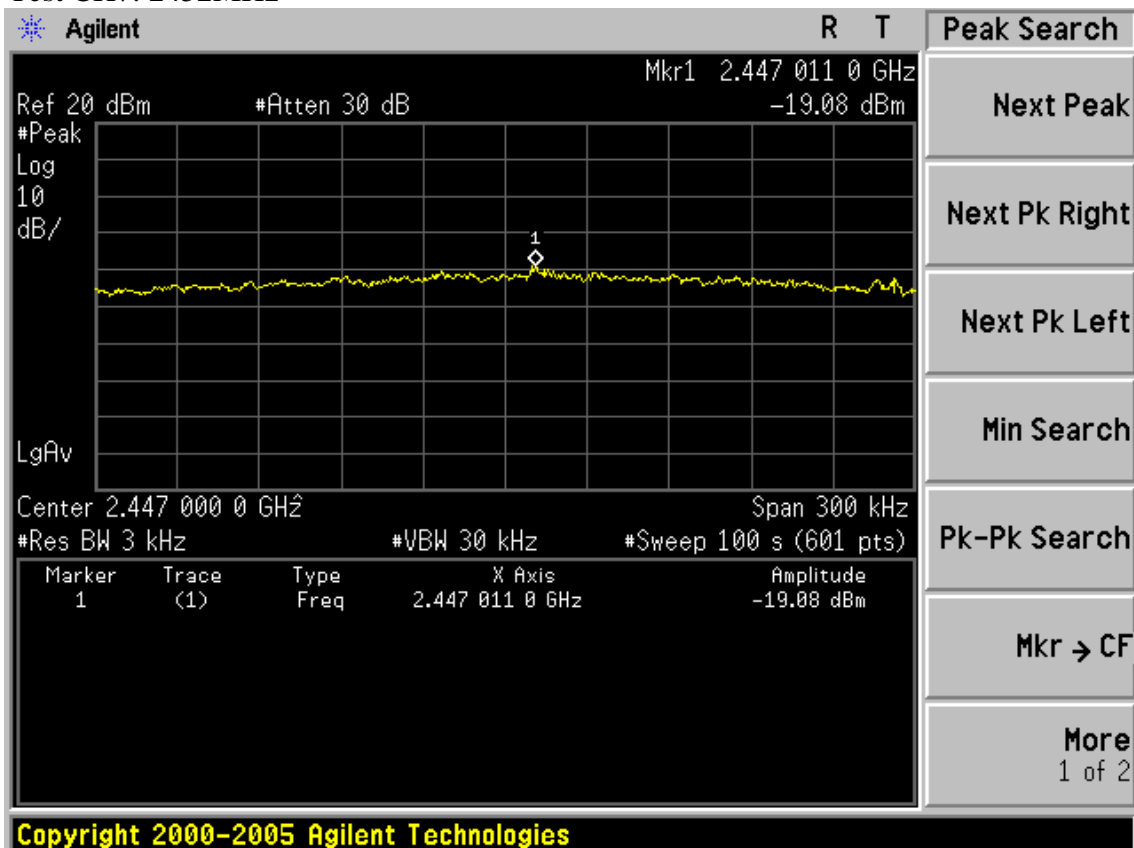
Test CH1: 2422MHz



Test CH4: 2437MHz



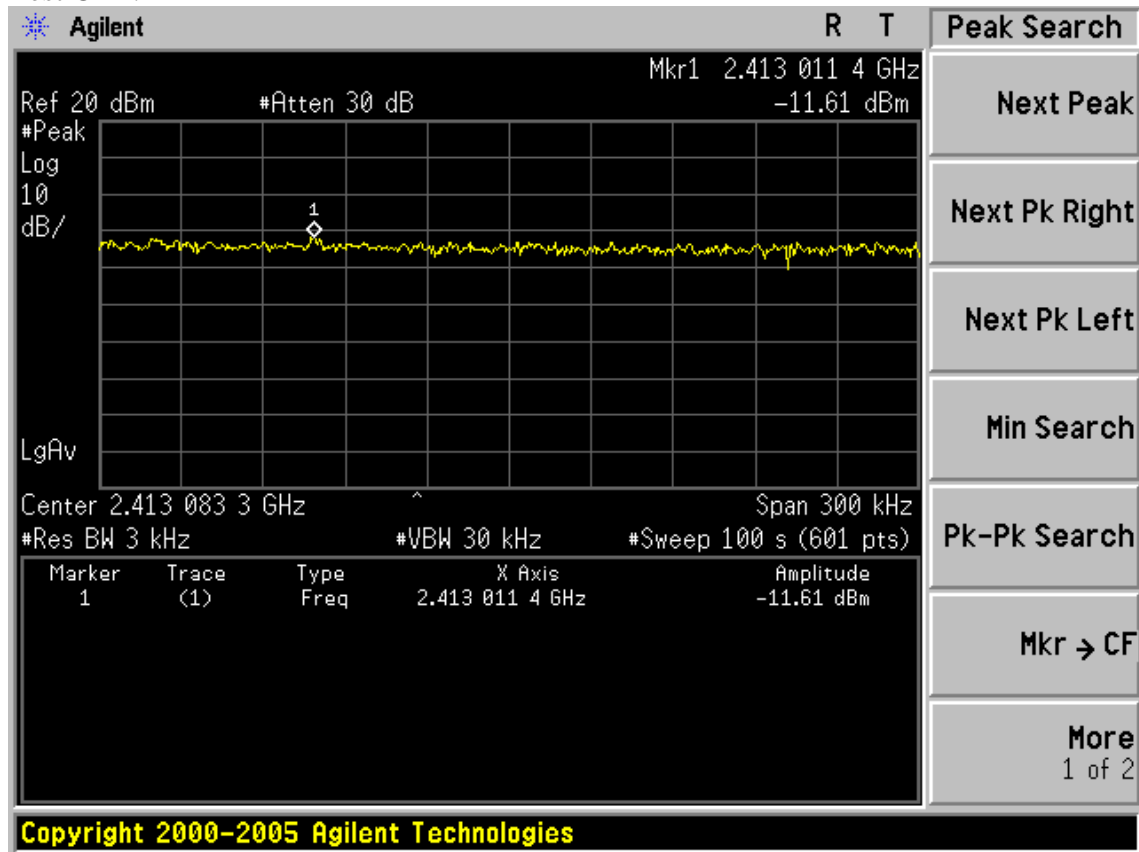
Test CH7: 2452MHz



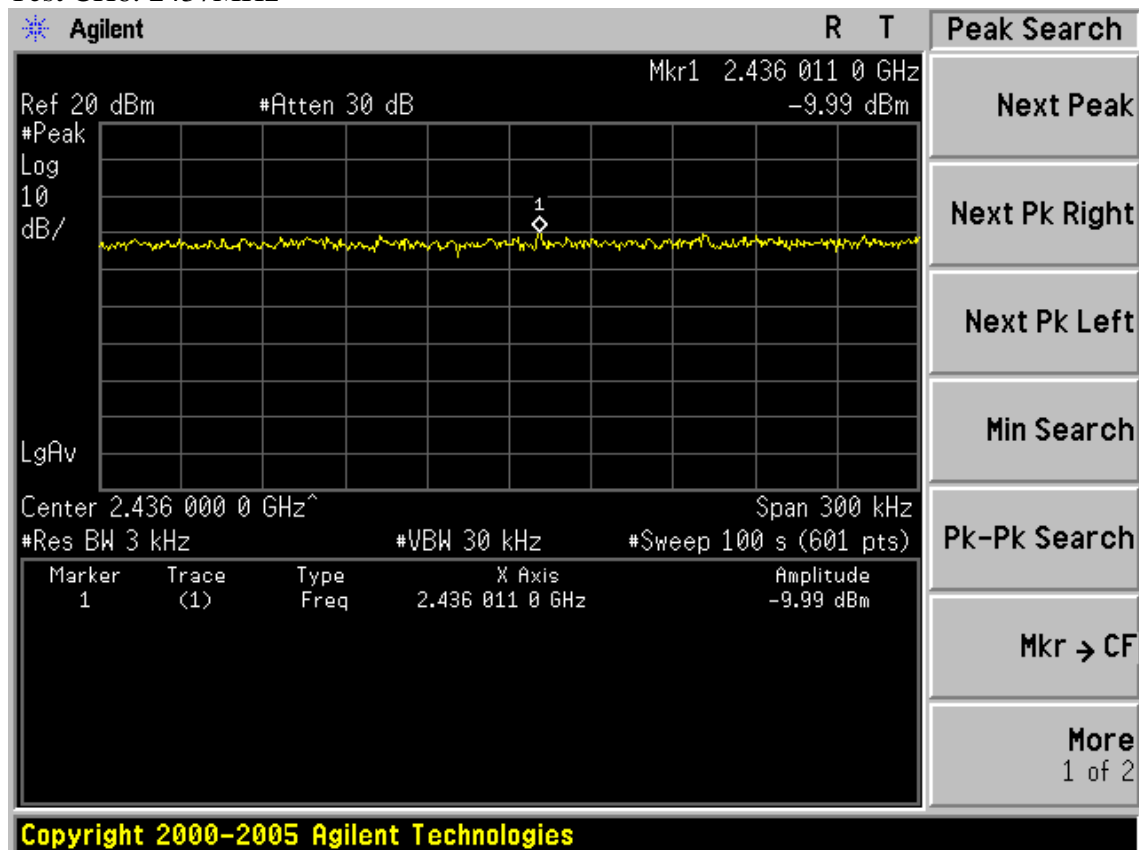
Chain 2:

Test Mode: IEEE 802.11b TX

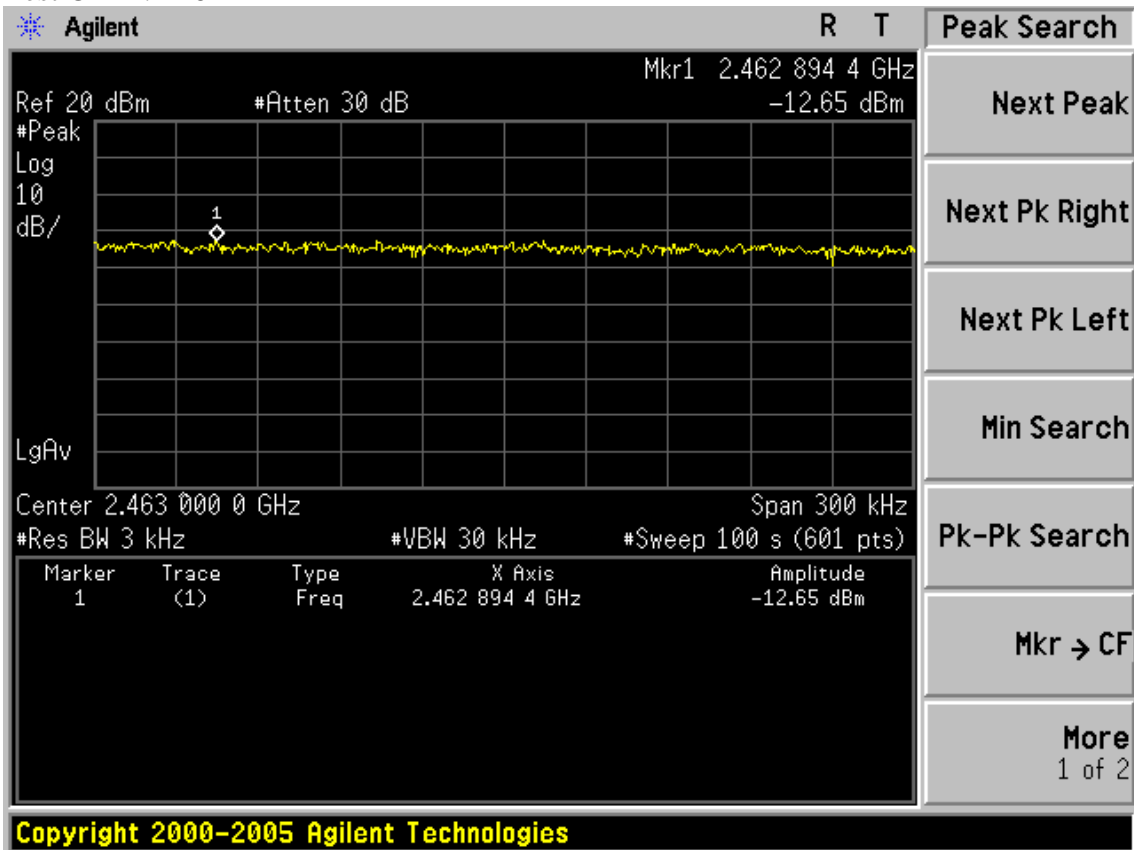
Test CH1: 2412MHz



Test CH6: 2437MHz

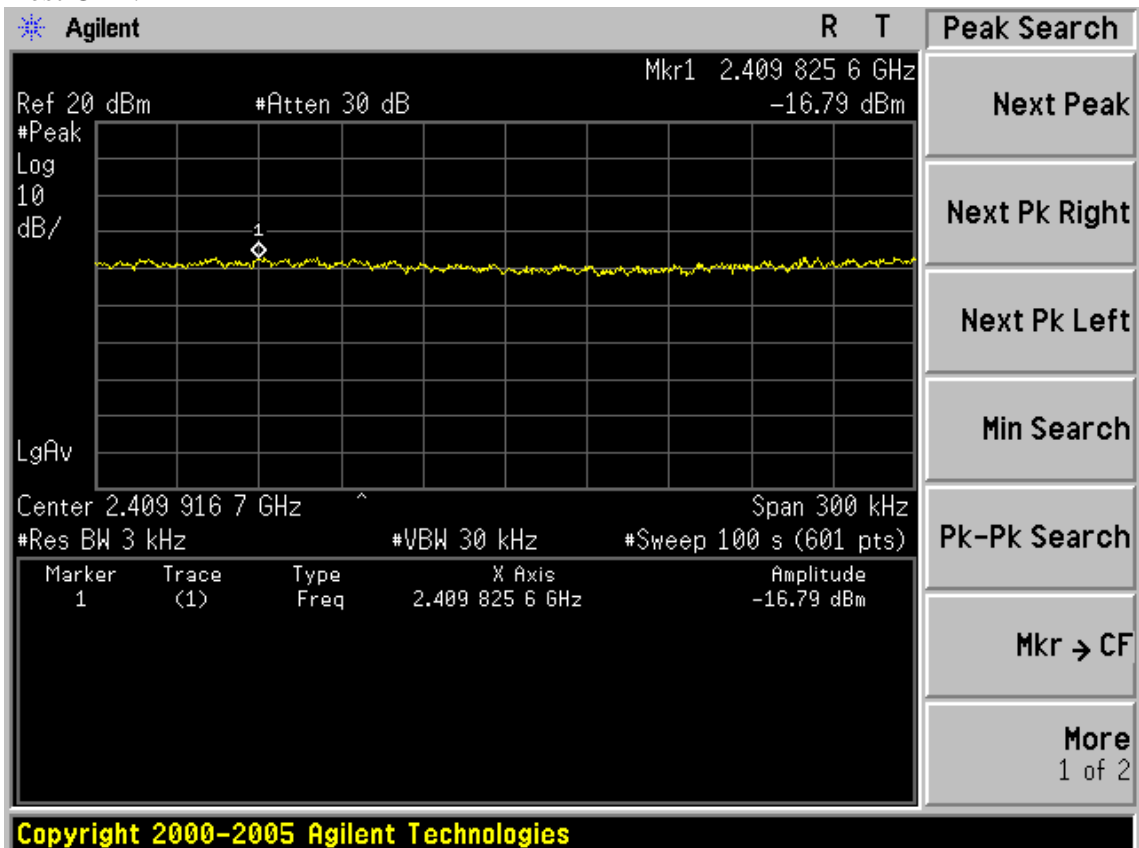


Test CH1: 2462MHz

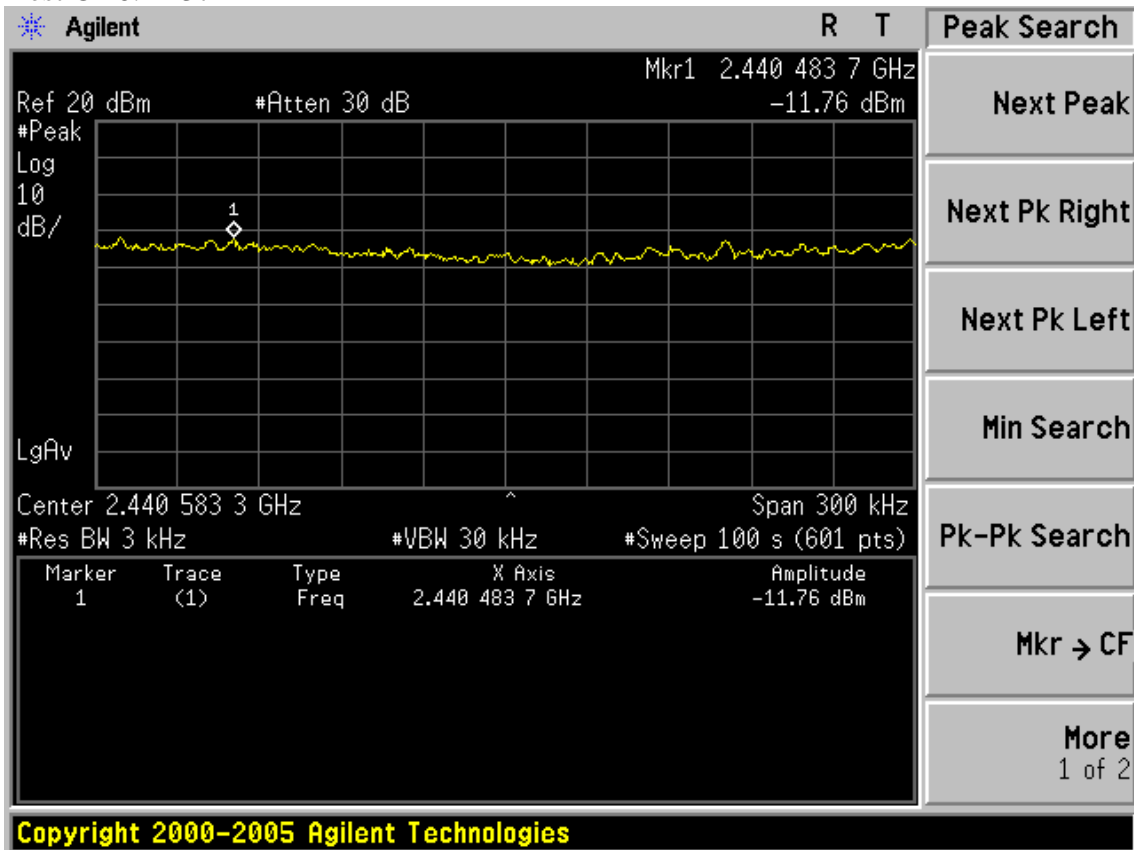


Test Mode: IEEE 802.11g TX

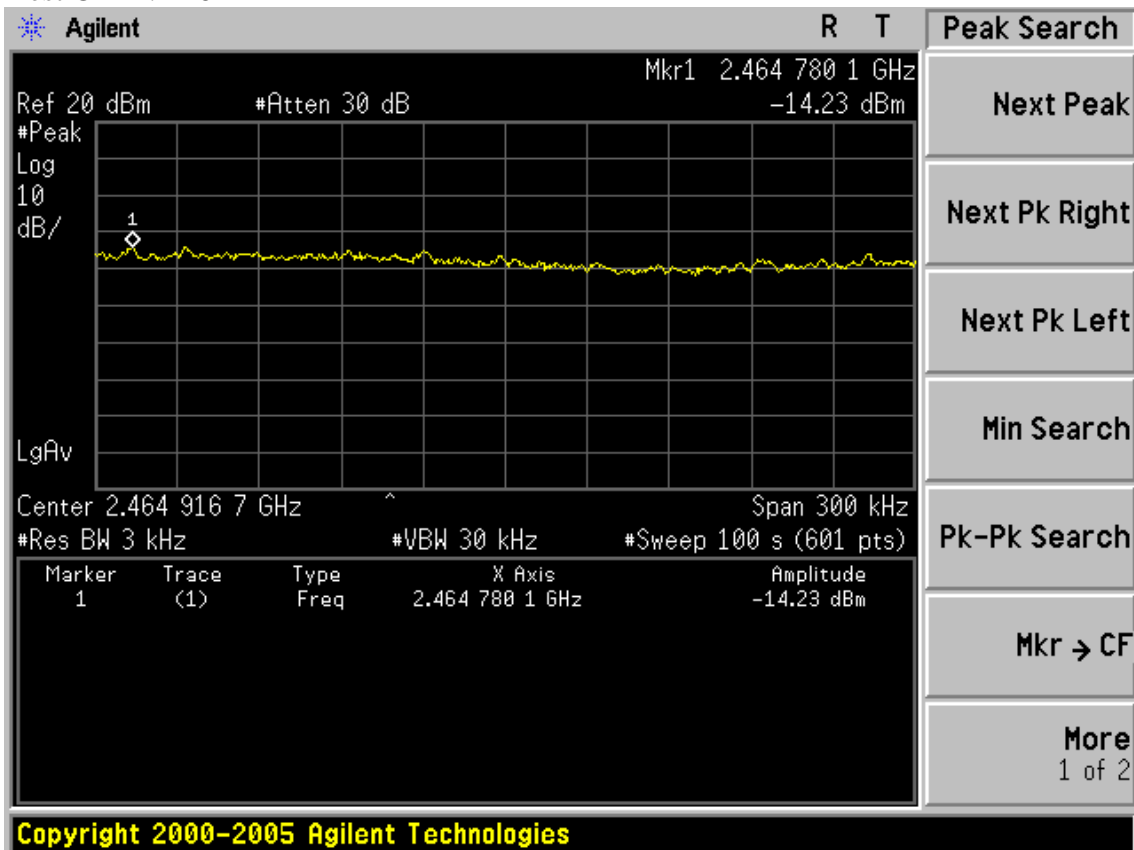
Test CH1: 2412MHz



Test CH6: 2437MHz

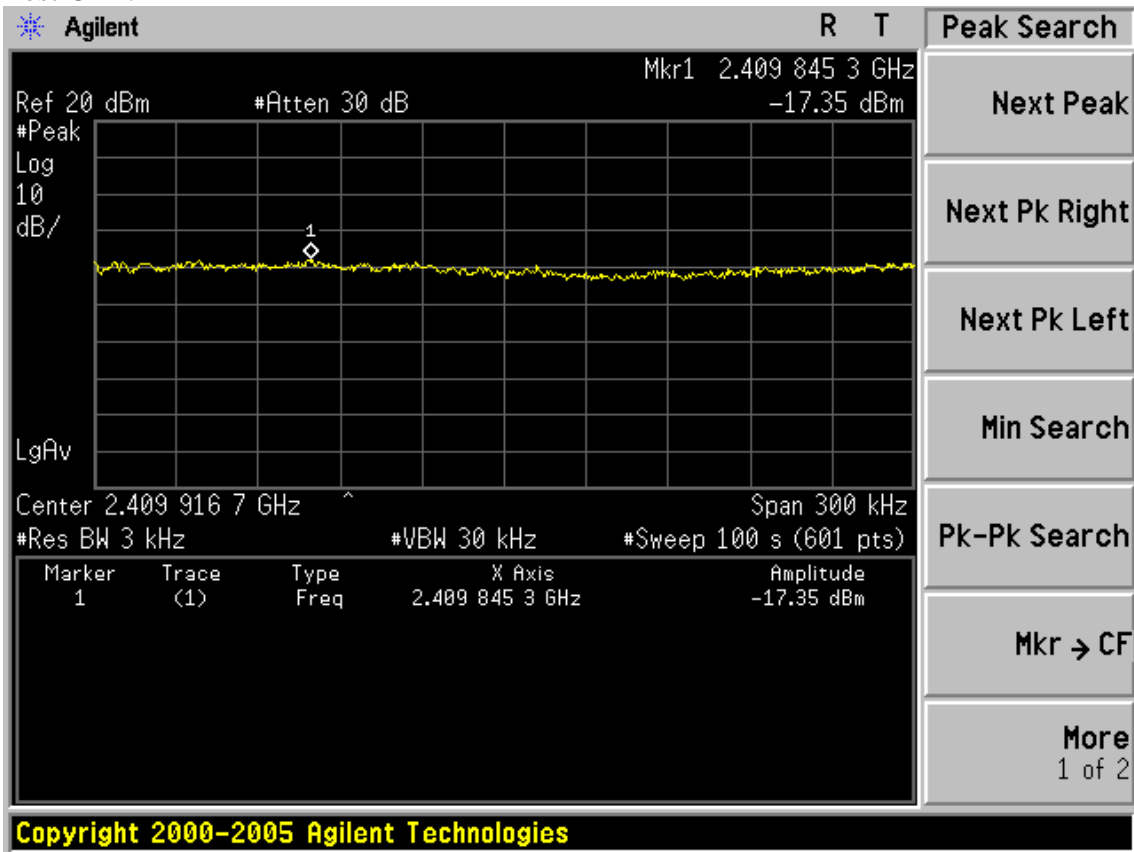


Test CH11: 2462MHz

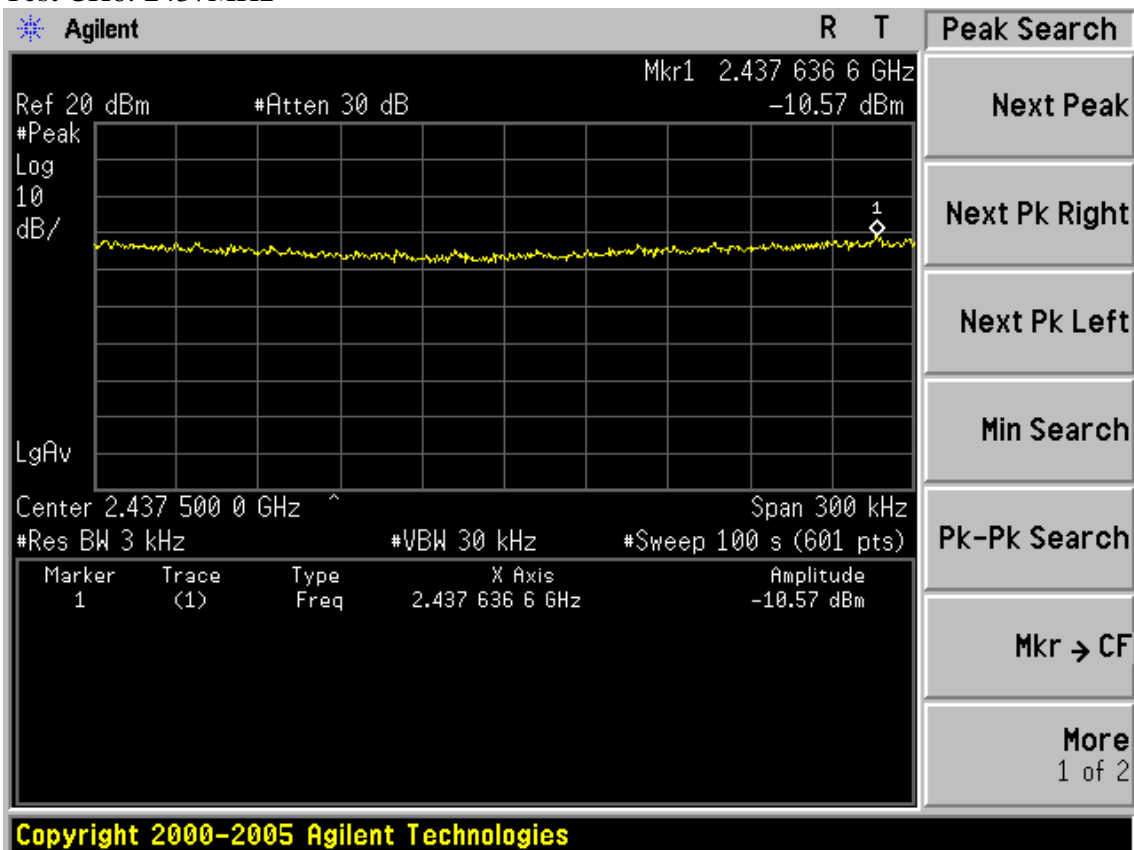


Test Mode: IEEE 802.11n HT20 TX

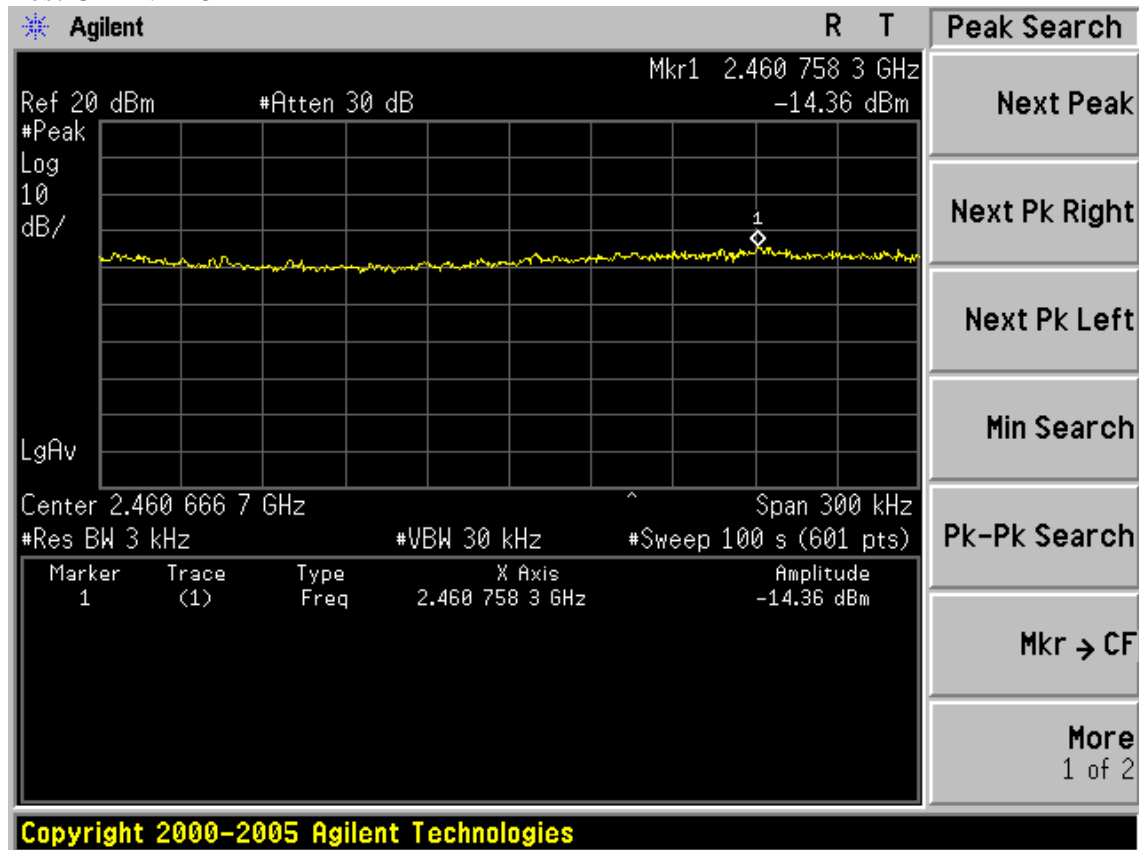
Test CH1: 2412MHz



Test CH6: 2437MHz

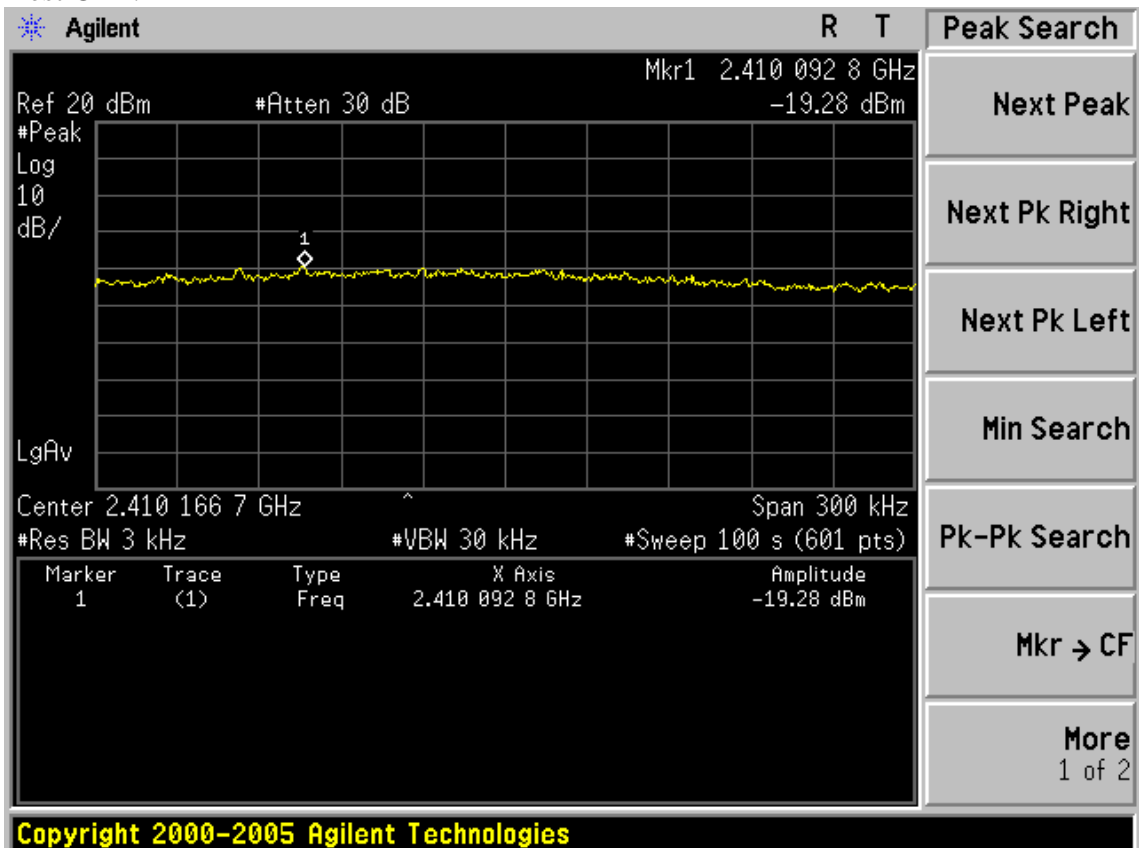


Test CH1: 2462MHz

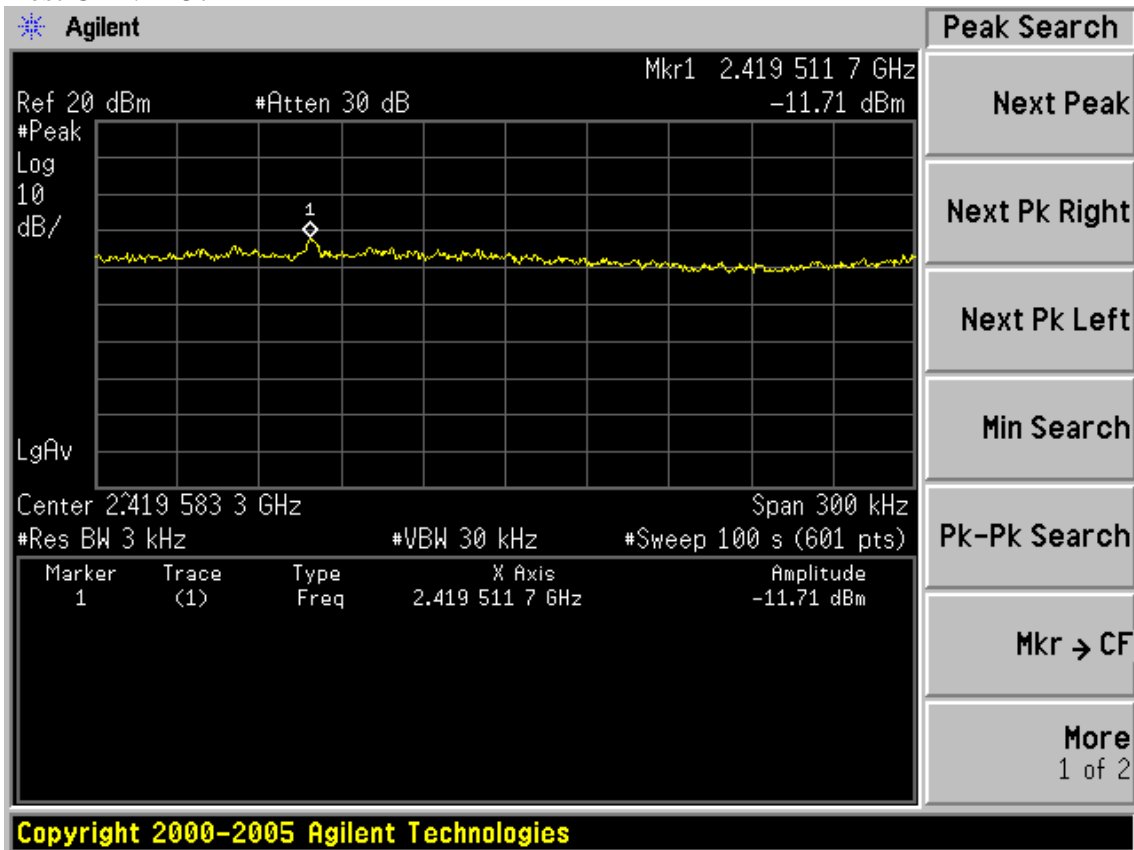


Test Mode: IEEE 802.11n HT40 TX

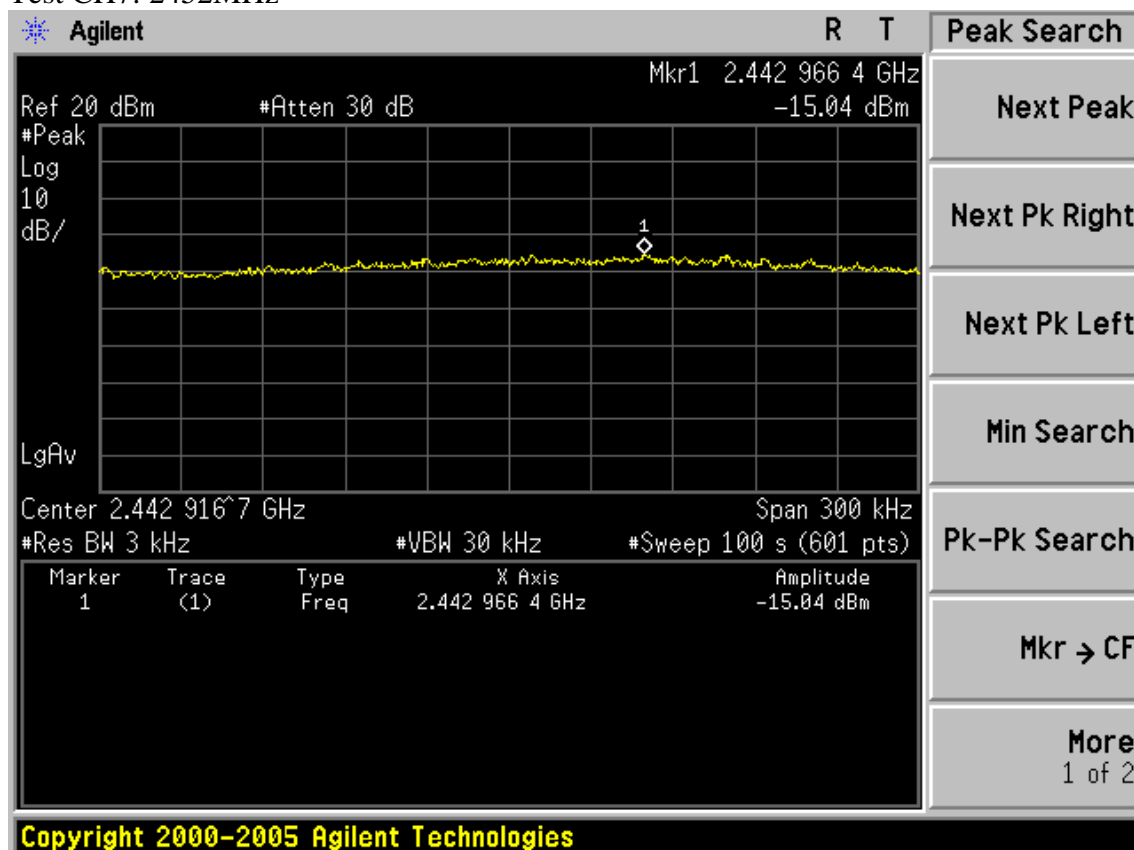
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



10.MPE ESTIMATION

10.1.Limit for General Population / Uncontrolled Exposures

| Frequency | Power density (mW/cm ²) | Averaging time (minutes) |
|---------------|-------------------------------------|--------------------------|
| 300MHz~1.5GHz | F/1500 | 30 |
| 1.5GHz~100GHz | 1.0 | 30 |

| Frequency (MHz) | Power density (mW/cm ²) | Averaging time (minutes) |
|-----------------|-------------------------------------|--------------------------|
| 2412 | 1 | 30 |
| 2437 | 1 | 30 |
| 2462 | 1 | 30 |

Note: F = Frequency in MHz

10.2.Estimation Result

| Mode | CH | Frequency (MHz) | PK Output Power (dBm) | Output Power (mW) | Antenna Gain (dBi) | Antenna Gain (linear) | MPE |
|-------------|----|-----------------|-----------------------|-------------------|--------------------|-----------------------|--------|
| 11b | 1 | 2412 | 22.23 | 167.11 | 0.59 | 1.15 | 0.0381 |
| | 6 | 2437 | 22.74 | 187.93 | 0.59 | 1.15 | 0.0428 |
| | 11 | 2462 | 21.19 | 131.52 | 0.59 | 1.15 | 0.0300 |
| 11g | 1 | 2412 | 24.46 | 279.25 | 0.59 | 1.15 | 0.0637 |
| | 6 | 2437 | 28.56 | 717.79 | 0.59 | 1.15 | 0.1637 |
| | 11 | 2462 | 26.01 | 399.02 | 0.59 | 1.15 | 0.0910 |
| 11n HT20 | 1 | 2412 | 24.07 | 255.27 | 0.59 | 1.15 | 0.0582 |
| | 6 | 2437 | 28.73 | 746.45 | 0.59 | 1.15 | 0.1702 |
| | 11 | 2462 | 24.39 | 274.79 | 0.59 | 1.15 | 0.0627 |
| 11n HT40 | 1 | 2422 | 23.73 | 236.05 | 0.59 | 1.15 | 0.0538 |
| | 4 | 2437 | 28.43 | 696.63 | 0.59 | 1.15 | 0.1588 |
| | 7 | 2452 | 23.77 | 238.23 | 0.59 | 1.15 | 0.0543 |

11. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are integral three MIMO antennas and the middle one is only used for receive and that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of the transmit antenna is only 0.59dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]

13. PHOTOGRAPH OF TEST

13.1. Photos of Power Line Conducted Emission Test



13.2.Photos of Radiated Emission Test

30-1000MHz



Above 1000MHz



14. PHOTOGRAPH OF EUT

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT

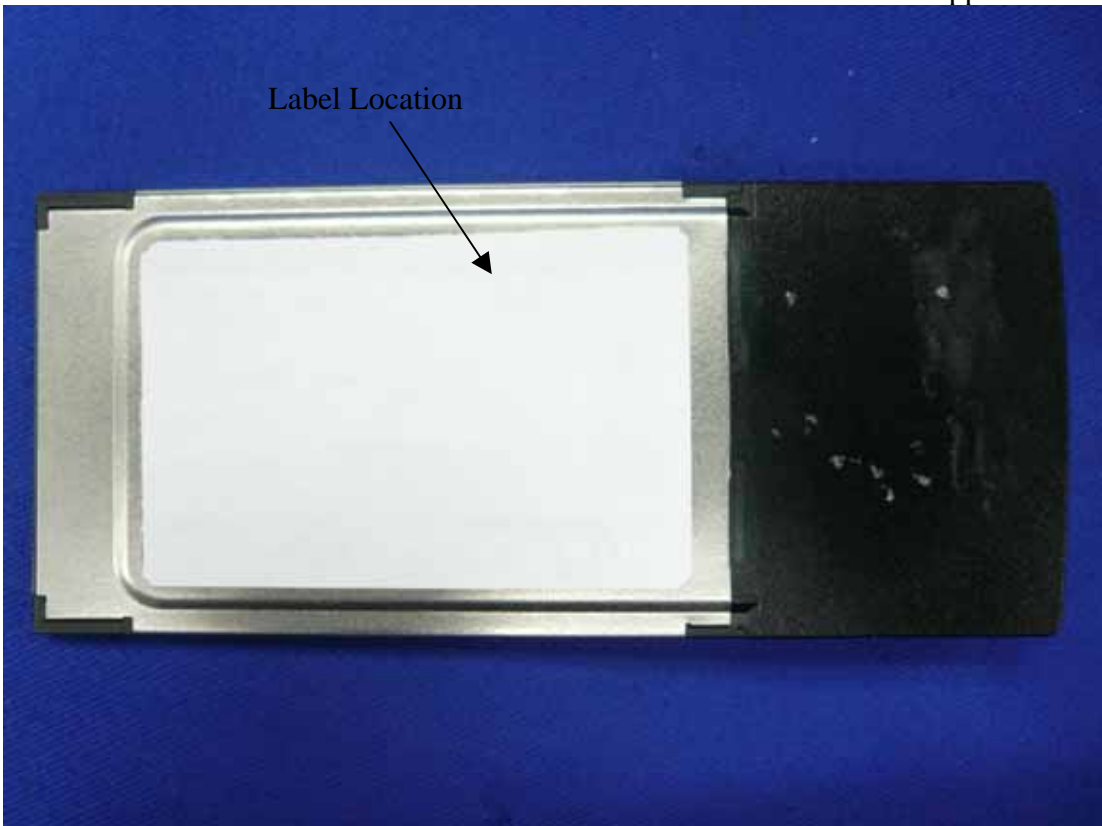


Figure 3
Inside of the EUT



Figure 4
Inside of the EUT

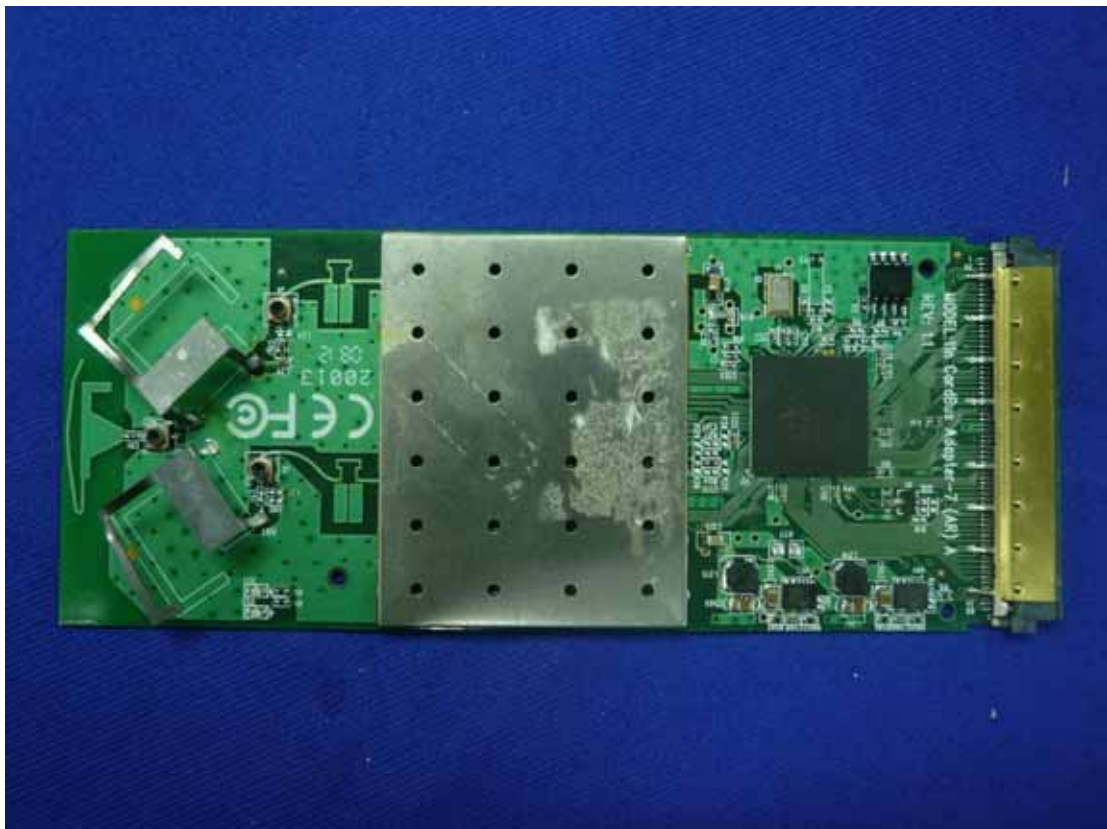


Figure 5
Inside of the EUT

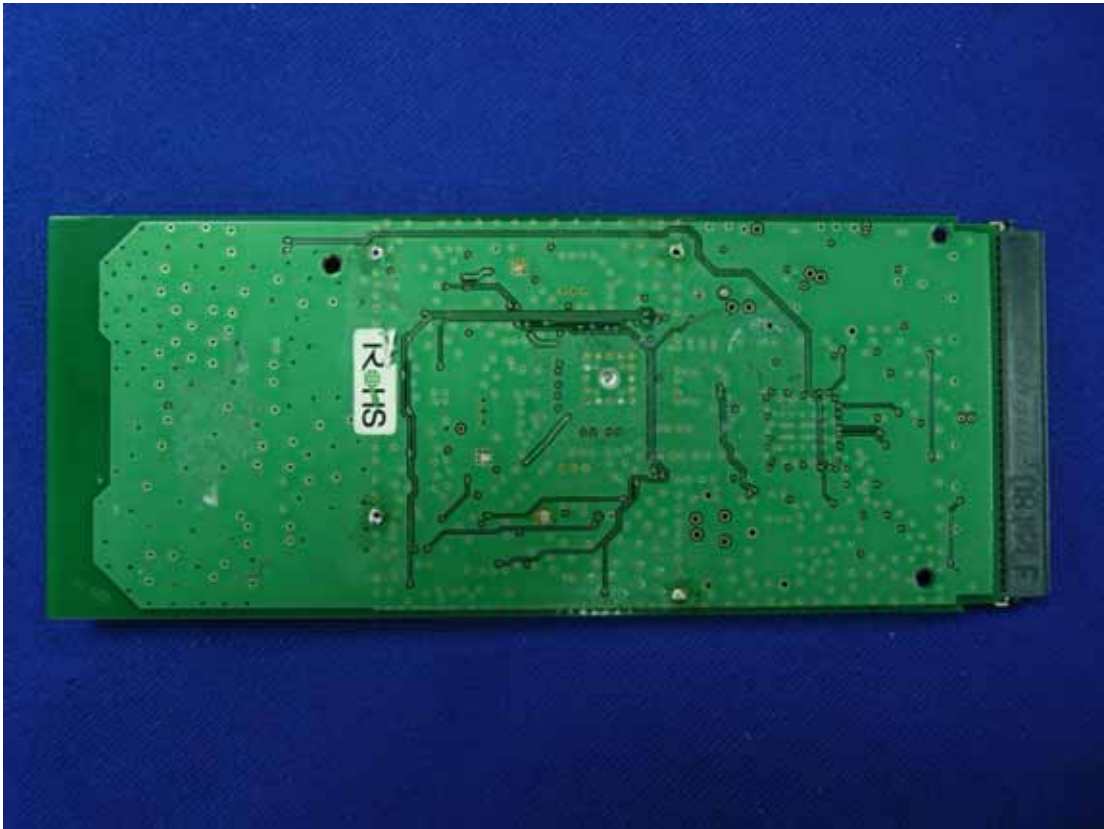


Figure 6
Inside of the EUT



Figure 7
Inside of the EUT

