

APPLICATION FOR CERTIFICATION

On Behalf of

ALTAI TECHNOLOGIES LIMITED

C1 WiFi CPE/AP

Model Number: WA1011C

FCC ID: UCC-WA1011C

Prepared for : ALTAI TECHNOLOGIES LIMITED
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Report Number : ACS-F10021
Date of Test : Dec.23, 2009~Jan.28, 2010
Date of Report : Jan.28, 2010

TABLE OF CONTENTS

| Description | Page |
|---|------------|
| 1. SUMMARY OF STANDARDS AND RESULTS..... | 1-1 |
| 1.1. Description of Standards and Results | 1-1 |
| 2. GENERAL INFORMATION | 2-1 |
| 2.1. Description of Device (EUT) | 2-1 |
| 2.2. Test information | 2-2 |
| 2.3. Data rate VS power | 2-2 |
| 2.4. Tested Supporting System Details | 2-3 |
| 2.5. Test Facility | 2-5 |
| 2.6. Measurement Uncertainty (95% confidence levels, k=2) | 2-5 |
| 3. POWER LINE CONDUCTED EMISSION TEST | 3-1 |
| 3.1. Test Equipments..... | 3-1 |
| 3.2. Block Diagram of Test Setup | 3-1 |
| 3.3. Power Line Conducted Emission Test Limits | 3-1 |
| 3.4. Configuration of EUT on Test | 3-2 |
| 3.5. Operating Condition of EUT | 3-2 |
| 3.6. Test Procedure..... | 3-2 |
| 3.7. Power Line Conducted Emission Test Results | 3-2 |
| 4. RADIATED EMISSION TEST | 4-1 |
| 4.1. Test Equipment | 4-1 |
| 4.2. Block Diagram of Test Setup | 4-1 |
| 4.3. Radiated Emission Limit..... | 4-2 |
| 4.4. EUT Configuration on Test..... | 4-3 |
| 4.5. Operating Condition of EUT..... | 4-3 |
| 4.6. Test Procedure..... | 4-3 |
| 4.7. Radiated Emission Test Results | 4-4 |
| 5. CONDUCTED SPURIOUS EMISSIONS..... | 5-1 |
| 5.1. Test Equipment | 5-1 |
| 5.2. Limit..... | 5-1 |
| 5.3. Test Procedure..... | 5-1 |
| 5.4. Test result..... | 5-1 |
| 6. BAND EDGE COMPLIANCE TEST | 6-1 |
| 6.1. Test Equipment | 6-1 |
| 6.2. Limit..... | 6-1 |
| 6.3. Test Produce | 6-1 |
| 6.4. Test Results | 6-1 |
| 7. 6dB Bandwidth Test..... | 7-1 |
| 7.1. Test Equipment | 7-1 |
| 7.2. Limit..... | 7-1 |
| 7.3. Test Procedure..... | 7-1 |
| 7.4. Test Results | 7-1 |
| 8. OUTPUT POWER TEST..... | 8-1 |
| 8.1. Test Equipment | 8-1 |
| 8.2. Limit(FCC Part 15C 15.247 b(3))..... | 8-1 |
| 8.3. Test Procedure..... | 8-1 |
| 8.4. Test Results | 8-2 |
| 9. POWER SPECTRAL DENSITY TEST | 9-1 |

- 9.1. Test Equipment9-1
- 9.2. Limit.....9-1
- 9.3. Test Procedure.....9-1
- 9.4. Test Results9-2
- 10. ANTENNA REQUIREMENT 10-1**
- 11. MPE ESTIMATION 11-1**
 - 11.1. Limit for General Population/ Uncontrolled Exposures 11-1
 - 11.2. Estimation Result 11-1
- 12. DEVIATION TO TEST SPECIFICATIONS..... 12-1**
- 13. PHOTOGRAPH OF TEST 13-1**
 - 13.1. Photos of Power Line Conducted Emission Test 13-1
 - 13.2. Photos of Radiated Emission Test..... 13-2
- 14. PHOTOGRAPH OF EUT 14-1**

TEST REPORT CERTIFICATION

Applicant : ALTAI TECHNOLOGIES LIMITED
 Manufacturer : SmartAnt Telecom Co. Ltd.
 EUT Description : C1 WiFi CPE/AP
 FCC ID : UCC-WA1011C
 (A) MODEL NO. : WA1011C
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 12V From Adapter
 (D) TEST VOLTAGE : DC 12V From Adapter 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 : Dec.23, 2009~ Jan.28, 2010

Prepared by : Edie Huang
 Edie Huang / Assistant

Reviewer : Jamy Yu
 Jamy Yu / Supervisor



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 C63.10: 2009 | PASS |
| Radiated Emission Test | FCC Part 15: 15.209 ANSI C63.10: 2009 | PASS |
| Band Edge Compliance Test | FCC Part 15: 15.247 | PASS |
| Conducted spurious emissions test | FCC Part 15: 15.247 | PASS |
| 6dB Bandwidth Test | FCC Part 15: 15.247 | PASS |
| Output Power Test | FCC Part 15: 15.247 | PASS |
| Power Spectral Density Test | FCC Part 15: 15.247 | PASS |
| Antenna requirement | FCC Part 15: 15.203 | PASS |

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | |
|-----------------------|---|
| Product Name | : C1 WiFi CPE/AP |
| Model Number | : WA1011C |
| FCC ID | : UCC-WA1011C |
| Operation Frequency | : IEEE 802.11b/g: 2412MHz---2462MHz |
| Channel Number | : IEEE 802.11b/g: 11 Channels |
| Modulation Technology | : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) |
| Output Power | : IEEE 802.11b: 23.09dBm IEEE 802.11g: 24.69dBm |
| Antenna and Gain | : Integral PCB antenna, 10dBi gain. |
| Applicant | : ALTAI TECHNOLOGIES LIMITED Unit209, 2/F, Lakeside 2, 10 Science Park West Avenue, HK Science Park, Shatin, Hong Kong, China |
| Manufacturer | : SmartAnt Telecom Co. Ltd. 3F, No.58, Park Avenue 2nd Rd., Science-based Industrial Park, Hsinchu 30075, Taiwan, R.O.C. |
| Power Adapter | : Manufacturer: DVE M/N: DSA-12G-12 FUS 120120 Cable: Unshielded, Undetachable, 1.6m |
| Date of Test | : Dec.23, 2009~Jan.28, 2010 |
| Date of Receipt | : Dec.17, 2009 |
| Sample Type | : Prototype production |

2.2. Test information

The test software “art.exe” 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) | Channel | Frequency (MHz) |
| IEEE 802.11b | 1 | Low :CH1 | 2412 |
| | 1 | Middle: CH6 | 2437 |
| | 1 | High: CH11 | 2462 |
| IEEE 802.11g | 6 | Low :CH1 | 2412 |
| | 6 | Middle: CH6 | 2437 |
| | 6 | High: CH11 | 2462 |

Note: According to 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) |
|------|-----------------|-----|-------------|
| 11b | 1 | CH6 | 23.09 |
| | 2 | CH6 | 22.34 |
| | 5.5 | CH6 | 22.45 |
| | 11 | CH6 | 22.12 |
| 11g | 6 | CH6 | 24.69 |
| | 9 | CH6 | 24.23 |
| | 12 | CH6 | 24.13 |
| | 18 | CH6 | 24.54 |
| | 24 | CH6 | 24.32 |
| | 36 | CH6 | 24.11 |
| | 48 | CH6 | 24.20 |
| | 54 | CH6 | 24.14 |

When IEEE 802.11b's data rate was 1Mbps; IEEE 802.11g's data rate was 6Mbps, 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. Personal Computer

| | | |
|--------------|---|------------------------------|
| EMC CODE | : | Test PC M |
| M/N | : | Studio 540 |
| S/N | : | 224XK2X |
| Manufacturer | : | DELL |
| Power cord | : | Unshielded, Detachable, 1.8m |
| FCC ID | : | By DoC |
| BSMI ID | : | R33002 |
| Display Card | : | HD3450(VGA+DVI+HDMI) |

2.4.2. Monitor

| | | |
|------------------|---|------------------------------|
| EMC CODE | : | ACS-EMC-LM01R |
| M/N | : | VLCDS26064-2W |
| S/N | : | A210521A0131 |
| Manufacturer | : | ViewSonic |
| Data Cable (VGA) | : | Shielded, Detachable, 2.0m |
| Data Cable (DVI) | : | Shielded, Detachable, 2.0m |
| Power Cord | : | Unshielded, Detachable, 1.8m |
| FCC ID | : | By DoC |
| BSMI ID | : | R31374 |

2.4.3. USB Keyboard

| | | |
|--------------|---|------------------------------|
| EMC CODE | : | ACS-EMC-K02R |
| M/N | : | SK-8115 |
| S/N | : | CN-ORH656-65890-686-007J |
| Manufacturer | : | DELL |
| Data Cable | : | Shielded, Undetachable, 2.0m |
| FCC ID | : | By DoC |
| BSMI ID | : | T3A002 |

2.4.4. USB Mouse

EMC CODE : ACS-EMC-M02R
M/N : M056UO
S/N : 512024264
Manufacturer : Dell
Data Cable : Shielded, Undetachable, 1.8m
FCC ID : By DoC
BSMI ID : R41108

2.4.5. Cables

LAN Cable : Unshielded, Detachable 10m

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 | : | Mar.31, 2009 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, 2009 |

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

| Test Item | Uncertainty |
|---|-----------------------|
| Uncertainty for Conduction emission test in No. 1 Conduction | 2.40dB |
| Uncertainty for Radiation Emission test in 3m chamber | 3.82 dB (Polarize: V) |
| | 4.32 dB (Polarize: H) |
| Uncertainty for Output power test | 0.94 dB |
| Uncertainty for Power density test | 2.10 dB |
| Uncertainty for Temperature and humidity test | 2% |
| | 1°C |
| Uncertainty for Frequency range test | 1×10^{-9} |
| Uncertainty for Bandwidth test | 1×10^{-9} |
| Uncertainty for DC power test | 0.038 % |
| Uncertainty for test site temperature and humidity | 0.6°C |
| | 3% |

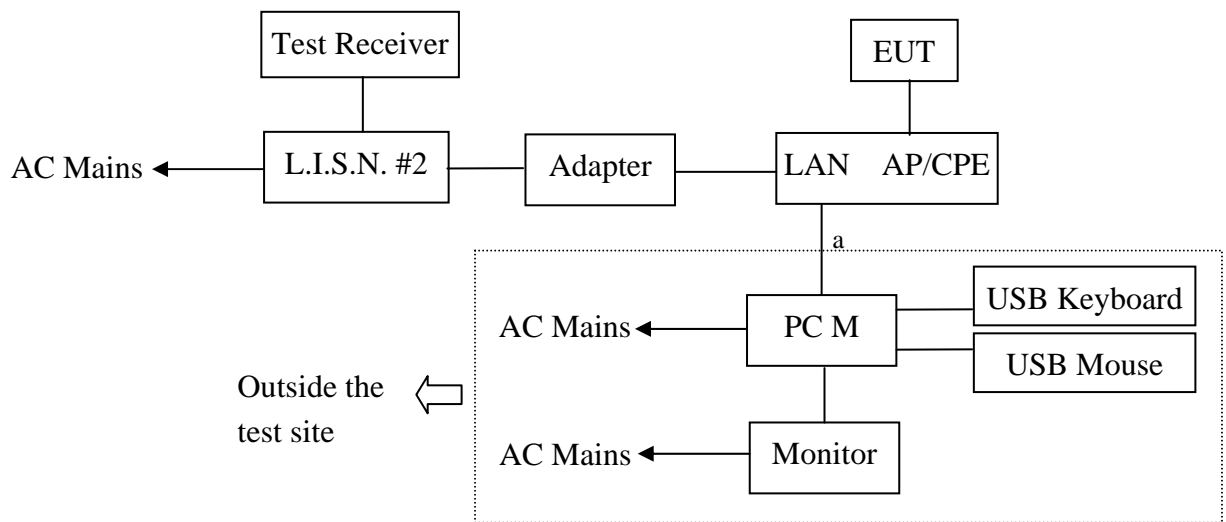
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|---------------|------------|---------------|
| 1 | Test Receiver | Rohde & Schwarz | ESHS20 | 836600/006 | May.08, 09 | 1 Year |
| 2 | L.I.S.N.#2 | Kyoritsu | KNW-407 | 8-1636-1 | May.08, 09 | 1 Year |
| 3 | Terminator | Hubersuhner | 50Ω | No. 1 | May.08, 09 | 1 Year |
| 4 | RF Cable | Fujikura | 3D-2W | LISN Cable 1# | May.08, 09 | 1 Year |
| 5 | Coaxial Switch | Anritsu | MP59B | M55367 | May.08, 09 | 1 Year |
| 6 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100341 | May.08, 09 | 1 Year |

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



a: LAN Cable 10m

(EUT: C1 WiFi CPE/AP)

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. C1 WiFi CPE/AP (EUT)

Model Number : WA1011C
Serial Number : N/A.

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. 2#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The 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 C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10kHz.

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

The test result are reported on Section 3.7.,

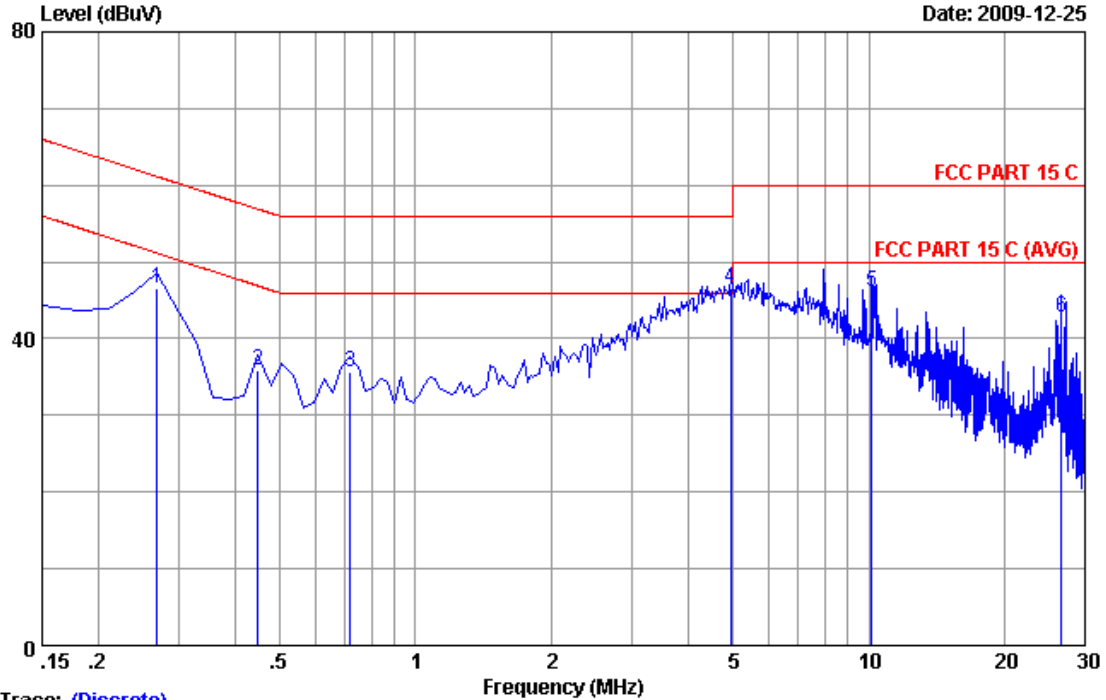
3.7. Power Line Conducted Emission Test Results

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



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Data: 1 File: D:\DATA\2009 Report\A\altai\ACS9QH321.EMI.EM6 (5)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :1
 Dis./Ant. **: 2009 KNW407 VA
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Jolly_Xu
 EUT :C1 WiFi CPE/AP M/N:WA1011C
 Power Rating :DC 12V From Adapter Input AC 120V/60Hz
 Test Mode :Tx

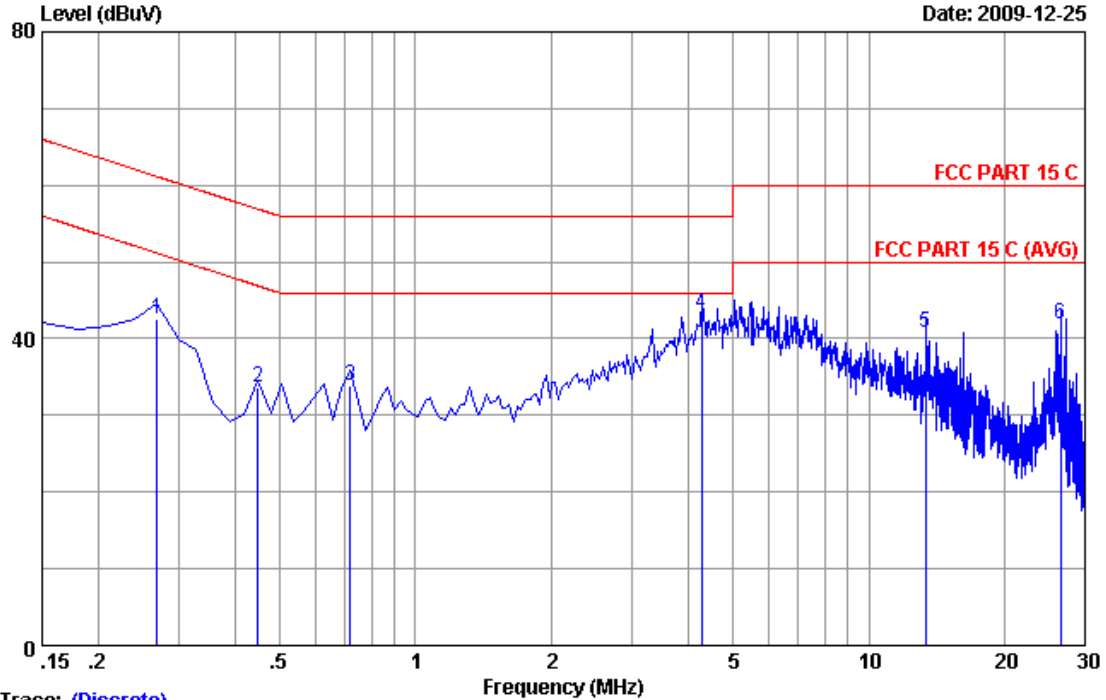
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBUV) | Emission Level (dBUV) | Limits (dBUV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.26940 | 0.40 | 9.88 | 36.25 | 46.53 | 61.14 | 14.61 | QP |
| 2 | 0.44850 | 0.34 | 9.89 | 25.62 | 35.85 | 56.90 | 21.05 | QP |
| 3 | 0.71715 | 0.36 | 9.89 | 25.40 | 35.65 | 56.00 | 20.35 | QP |
| 4 | 4.956 | 0.39 | 9.91 | 36.32 | 46.62 | 56.00 | 9.38 | QP |
| 5 | 10.150 | 0.43 | 9.94 | 35.81 | 46.18 | 60.00 | 13.82 | QP |
| 6 | 26.597 | 0.67 | 10.04 | 32.03 | 42.74 | 60.00 | 17.26 | 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\2009 Report\A\altai\ACS9QH321.EMI.EM6 (5)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :2
 Dis./Ant. **: 2009 KNW407 VB
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Jolly_Xu
 EUT :C1 WiFi CPE/AP M/N:WA1011C
 Power Rating :DC 12V From Adapter Input AC 120V/60Hz
 Test Mode :Tx

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.26940 | 0.42 | 9.88 | 32.22 | 42.52 | 61.14 | 18.62 | QP |
| 2 | 0.44850 | 0.35 | 9.89 | 23.31 | 33.55 | 56.90 | 23.35 | QP |
| 3 | 0.71715 | 0.35 | 9.89 | 23.61 | 33.85 | 56.00 | 22.15 | QP |
| 4 | 4.269 | 0.37 | 9.91 | 32.93 | 43.21 | 56.00 | 12.79 | QP |
| 5 | 13.374 | 0.47 | 9.96 | 30.25 | 40.68 | 60.00 | 19.32 | QP |
| 6 | 26.478 | 0.61 | 10.04 | 31.16 | 41.81 | 60.00 | 18.19 | 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

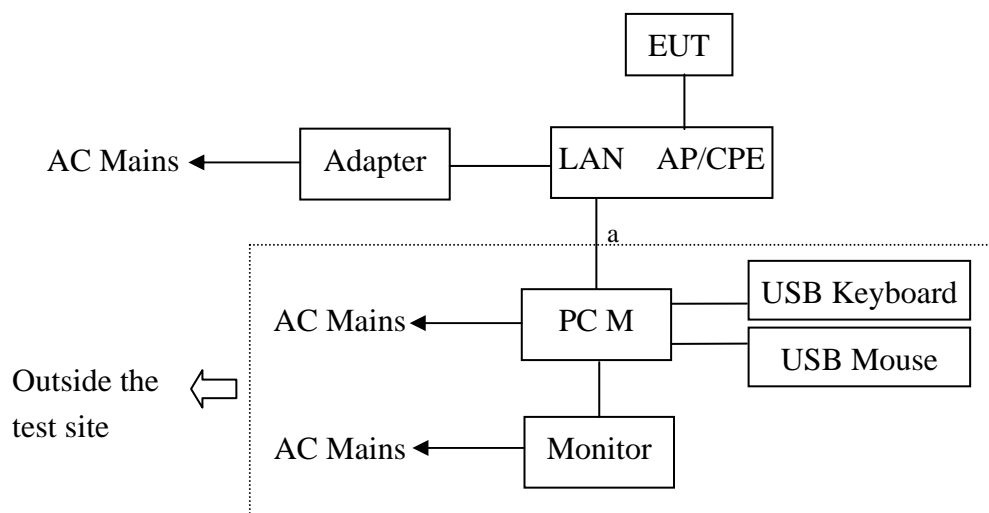
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| 1 | 3#Chamber | AUDIX | N/A | N/A | Dec.05,09 | 1 Year |
| 2 | EMI Spectrum | Agilent | E4407B | MY41440292 | May.08, 09 | 1 Year |
| 3 | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | May.08, 09 | 1 Year |
| 4 | Amplifier | HP | 8447D | 2648A04738 | May.08, 09 | 1 Year |
| 5 | Bilog Antenna | Schaffner | CBL6111C | 2598 | Dec.14, 09 | 1 Year |
| 6 | RF Cable | MIYAZAKI | 8D-FB | 3# Chamber No.1 | May.08, 09 | 1 Year |
| 7 | Coaxial Switch | Anritsu | MP59B | M73989 | May.08, 09 | 1 Year |

Frequency rang: above 1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-------------|------------|------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 09 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9607-4877 | Nov.25, 09 | 1.5 Year |
| 3 | Horn Antenna | EMCO | 3116 | 00060089 | Nov.25, 09 | 1.5 Year |
| 4 | Amplifier | Agilent | 8449B | 3008A08495 | Aug.04,09 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | Nov.28, 09 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX102 | 29091/2 | Nov.28, 09 | 1 Year |

4.2. Block Diagram of Test Setup

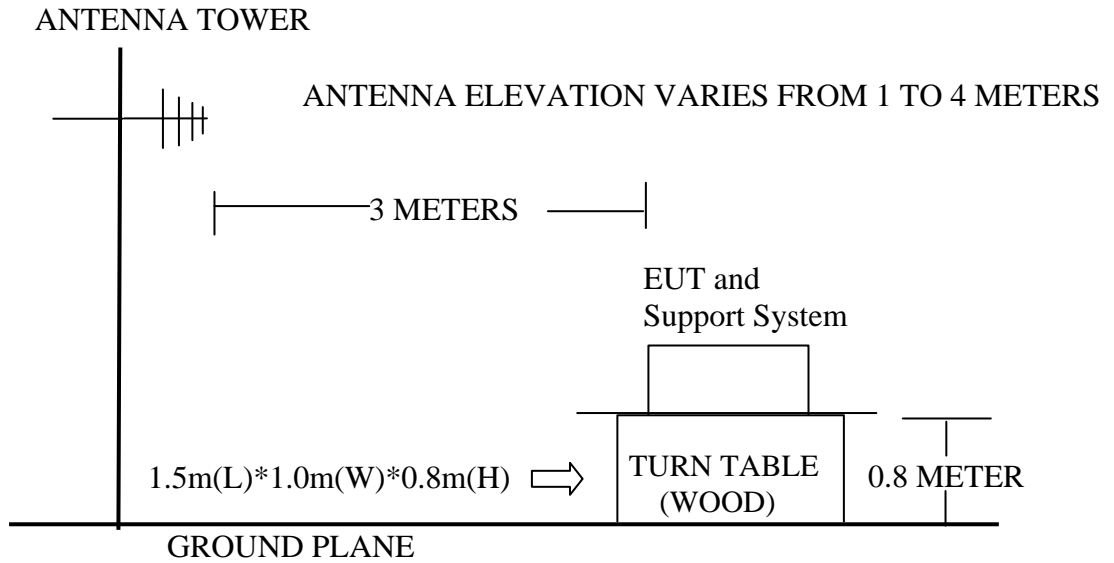
Block diagram of connection between the EUT and simulators



a: LAN Cable 10m

(EUT: C1 WiFi CPE/AP)

4.2.1. 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. C1 WiFi CPE/AP (EUT)

Model Number : WA1011C
Serial Number : N/A

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. PC 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 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.

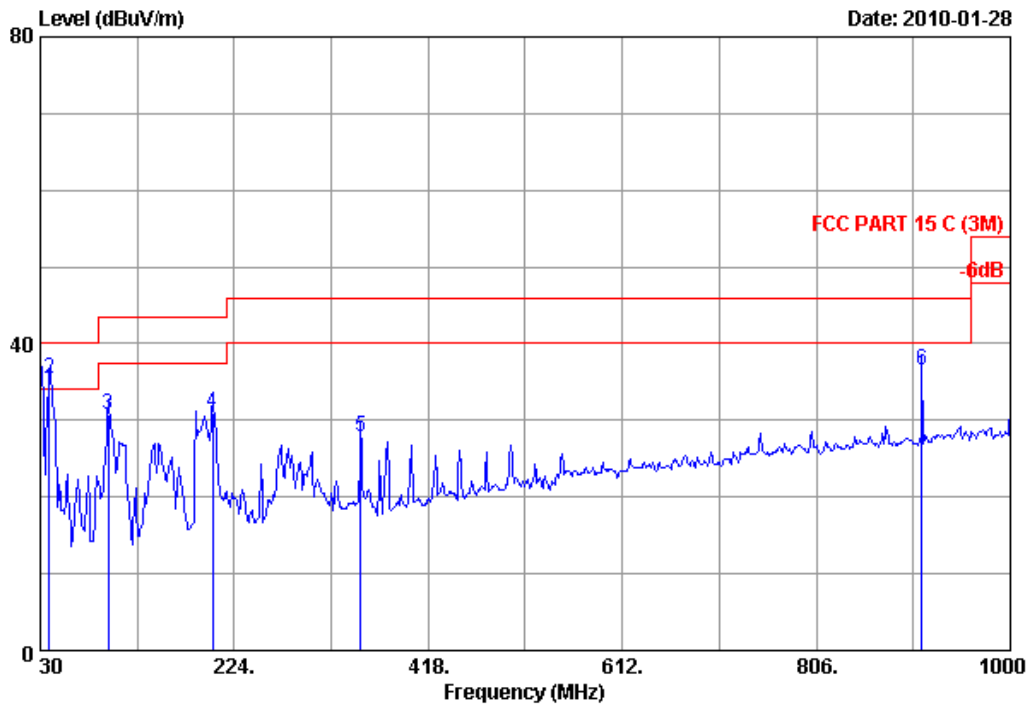
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Frequency: 30MHz~1GHz



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Data: 18 File: D:\2009 Report Data\WALTA\ACS9QH321.EM6 (18)



Site no. : 3m chamber Data no. : 18
Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Jamy
EUT : C1 WiFi CPE/AP M/N:WA1011C
Power Rating : DC12V from adapter input AC 120V/60Hz
Test Mode : Tx Mode

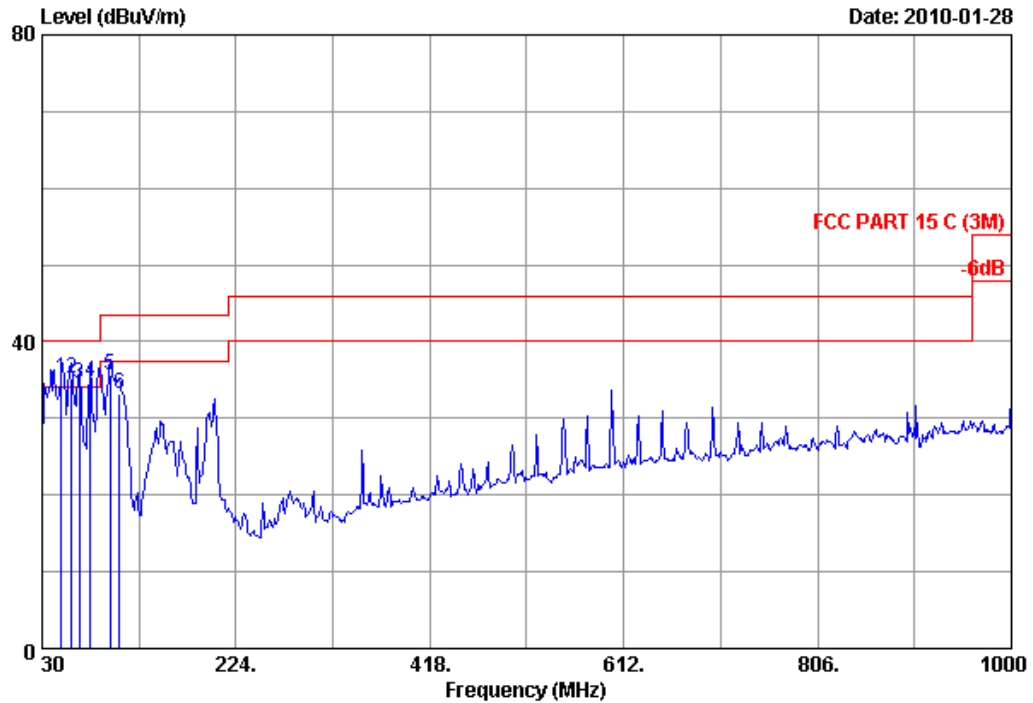
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 30.600 | 19.44 | 0.52 | 16.90 | 36.86 | 40.00 | 3.14 | QP |
| 2 | 38.900 | 15.04 | 0.58 | 19.90 | 35.52 | 40.00 | 4.48 | QP |
| 3 | 97.900 | 10.12 | 0.89 | 19.72 | 30.73 | 43.50 | 12.77 | QP |
| 4 | 202.660 | 10.06 | 1.33 | 19.50 | 30.89 | 43.50 | 12.61 | QP |
| 5 | 350.100 | 15.10 | 1.83 | 10.96 | 27.89 | 46.00 | 18.11 | QP |
| 6 | 911.730 | 23.17 | 3.22 | 10.09 | 36.48 | 46.00 | 9.52 | 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: 17 File: D:\2009 Report Data\A\ALTA\ACS9QH321.EM6 (18)



Site no. : 3m chamber Data no. : 17
 Dis. / Ant. : 3m 2009 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Jamy
 EUT : C1 WiFi CPE/AP M/N:WA1011C
 Power Rating : DC12V from adapter input AC 120V/60Hz
 Test Mode : Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 49.400 | 9.72 | 0.65 | 24.92 | 35.29 | 40.00 | 4.71 | QP |
| 2 | 59.100 | 6.22 | 0.70 | 28.34 | 35.26 | 40.00 | 4.74 | QP |
| 3 | 66.860 | 6.24 | 0.75 | 27.50 | 34.49 | 40.00 | 5.51 | QP |
| 4 | 78.500 | 7.63 | 0.80 | 26.35 | 34.78 | 40.00 | 5.22 | QP |
| 5 | 97.900 | 10.12 | 0.89 | 24.61 | 35.62 | 43.50 | 7.88 | QP |
| 6 | 107.600 | 11.20 | 0.93 | 21.17 | 33.30 | 43.50 | 10.20 | QP |

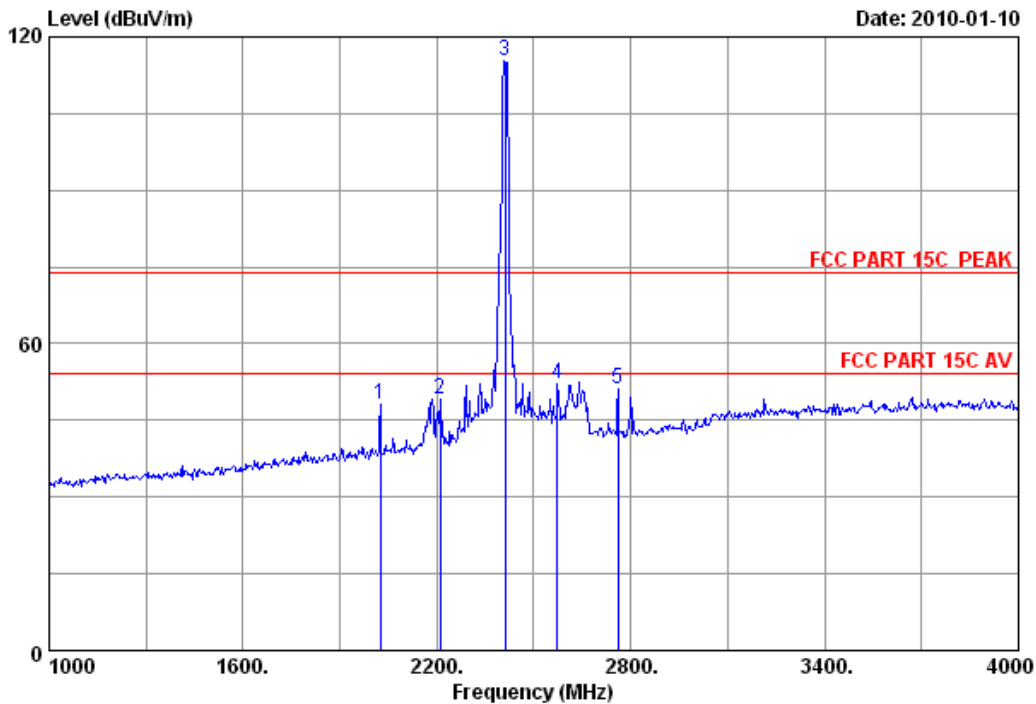
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



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Data: 45 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 45
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : WA1011C

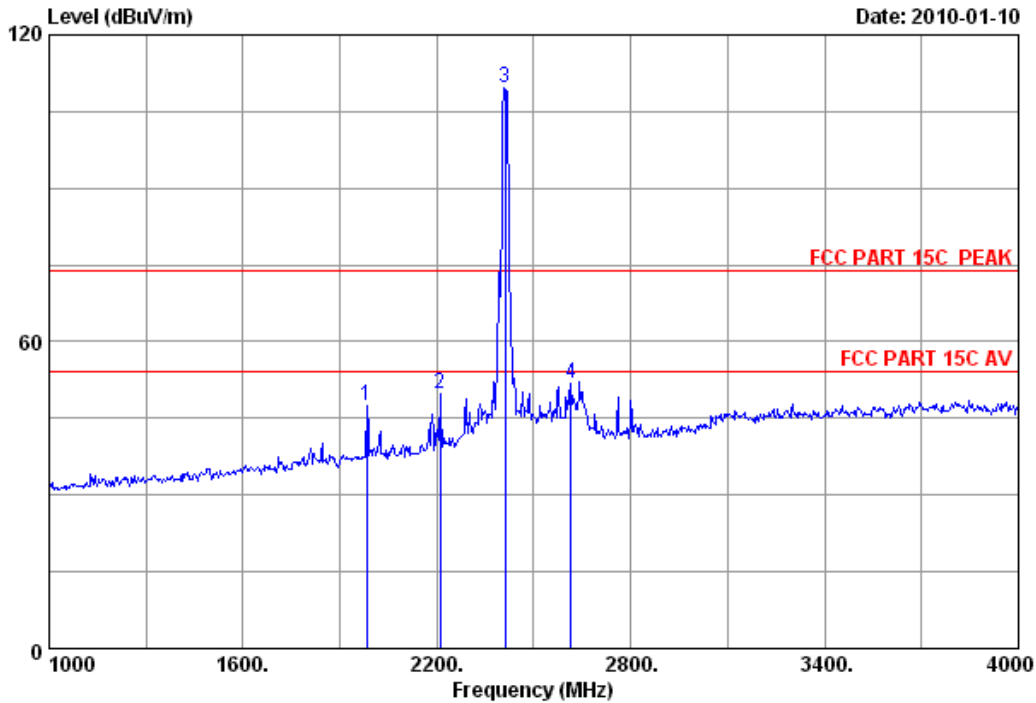
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2026.000 | 29.21 | 7.80 | 47.21 | 48.10 | 74.00 | 25.90 | Peak |
| 2 | 2209.000 | 29.32 | 8.36 | 47.59 | 49.25 | 74.00 | 24.75 | Peak |
| 3 | 2412.000 | 29.45 | 8.60 | 113.13 | 115.23 | 74.00 | -41.23 | Peak |
| 4 | 2572.000 | 29.83 | 9.21 | 49.07 | 52.23 | 74.00 | 21.77 | Peak |
| 5 | 2761.000 | 30.83 | 9.80 | 46.44 | 51.09 | 74.00 | 22.91 | Peak |

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: 46 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1984.000 | 29.11 | 7.76 | 46.65 | 47.46 | 74.00 | 26.54 | Peak |
| 2 | 2209.000 | 29.32 | 8.36 | 48.18 | 49.84 | 74.00 | 24.16 | Peak |
| 3 | 2412.000 | 29.45 | 8.60 | 107.42 | 109.52 | 74.00 | -35.52 | Peak |
| 4 | 2614.000 | 30.08 | 9.04 | 48.81 | 51.87 | 74.00 | 22.13 | Peak |

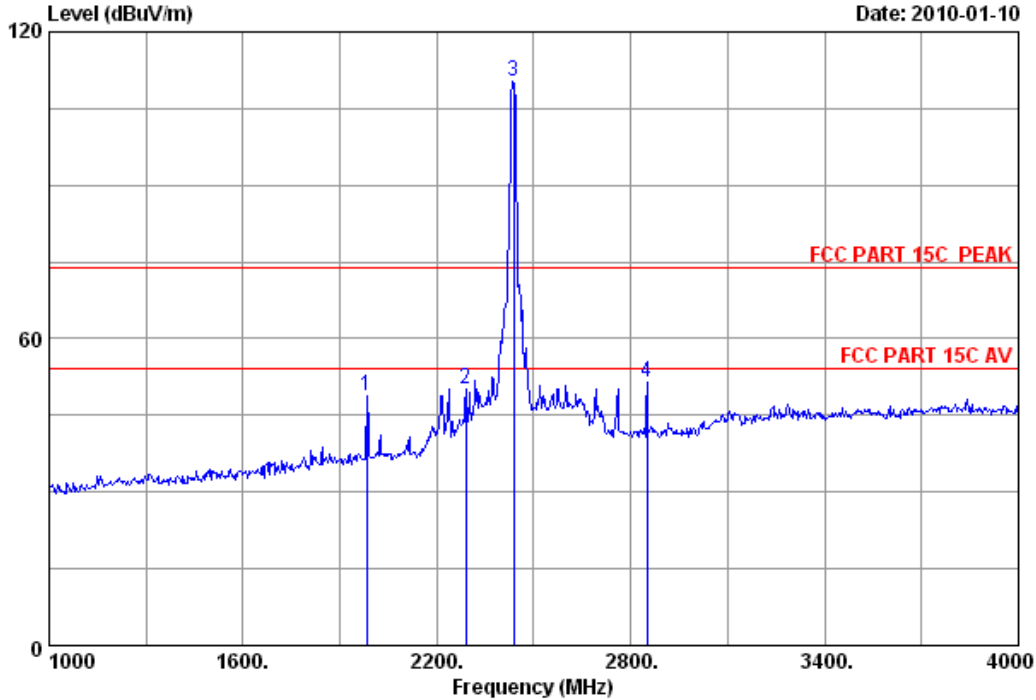
Remarks:

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: 47 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 47
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1984.000 | 29.11 | 7.76 | 47.98 | 48.79 | 74.00 | 25.21 | Peak |
| 2 | 2290.000 | 29.38 | 8.72 | 48.10 | 50.28 | 74.00 | 23.72 | Peak |
| 3 | 2437.000 | 29.47 | 8.60 | 108.16 | 110.17 | 74.00 | -36.17 | Peak |
| 4 | 2851.000 | 31.25 | 9.39 | 46.81 | 51.49 | 74.00 | 22.51 | Peak |

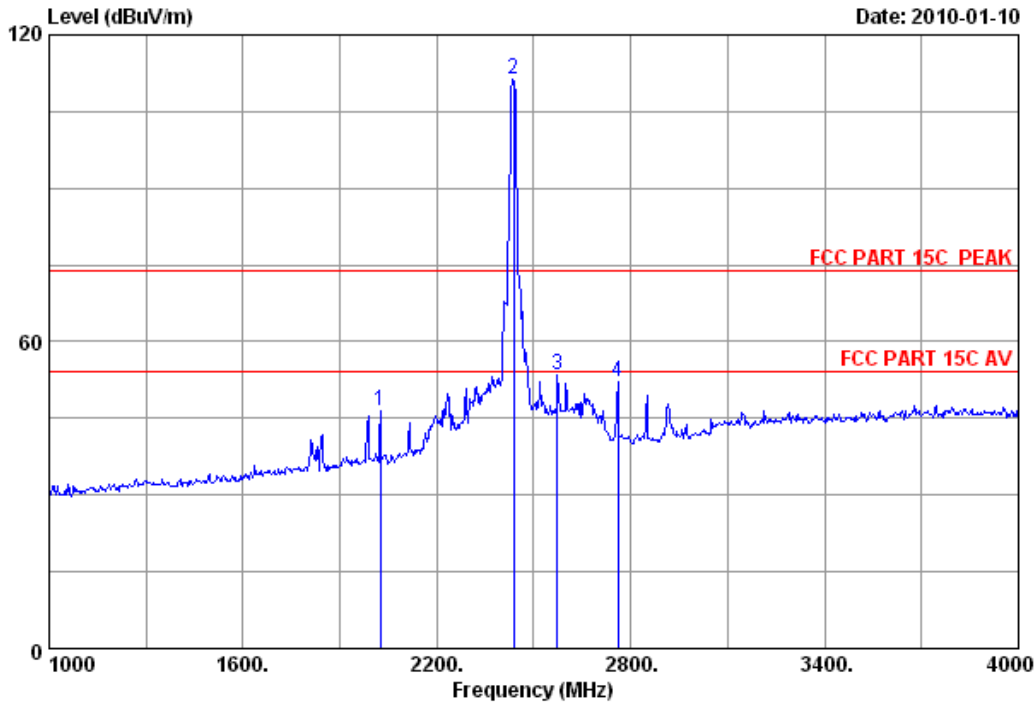
Remarks:

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: 48 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2026.000 | 29.21 | 7.80 | 45.70 | 46.59 | 74.00 | 27.41 | Peak |
| 2 | 2437.000 | 29.47 | 8.60 | 109.36 | 111.37 | 74.00 | -37.37 | Peak |
| 3 | 2572.000 | 29.83 | 9.21 | 50.27 | 53.43 | 74.00 | 20.57 | Peak |
| 4 | 2761.000 | 30.83 | 9.80 | 47.65 | 52.30 | 74.00 | 21.70 | Peak |

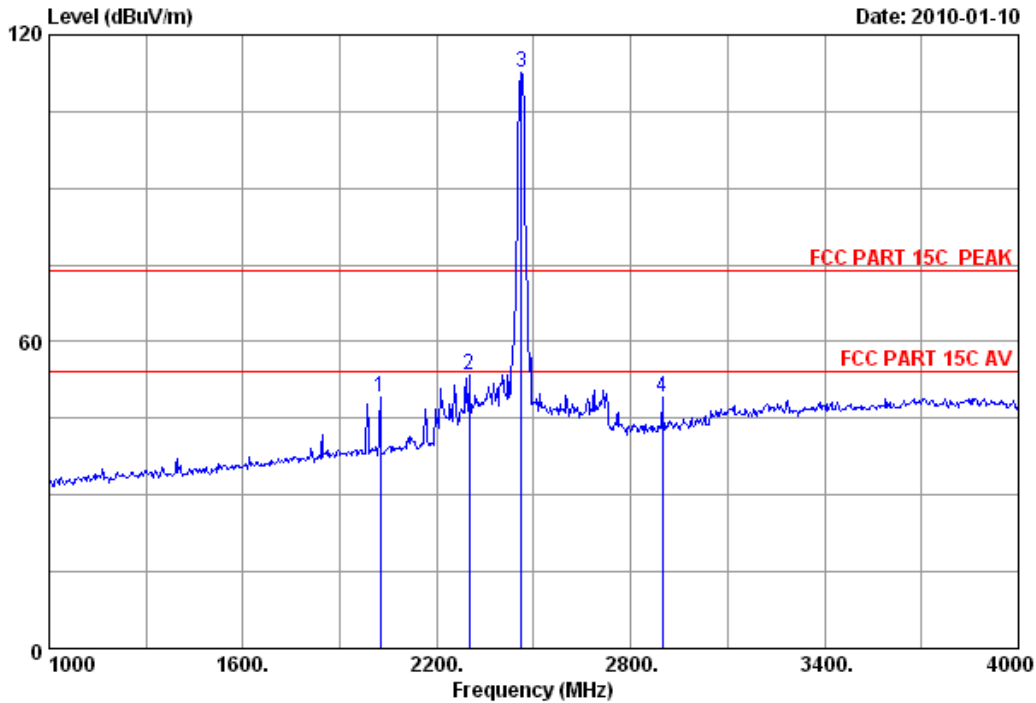
Remarks:

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: 49 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2026.000 | 29.21 | 7.80 | 48.09 | 48.98 | 74.00 | 25.02 | Peak |
| 2 | 2299.000 | 29.38 | 8.71 | 51.34 | 53.51 | 74.00 | 20.49 | Peak |
| 3 | 2462.000 | 29.48 | 8.76 | 110.37 | 112.59 | 74.00 | -38.59 | Peak |
| 4 | 2899.000 | 31.50 | 9.55 | 44.27 | 49.30 | 74.00 | 24.70 | Peak |

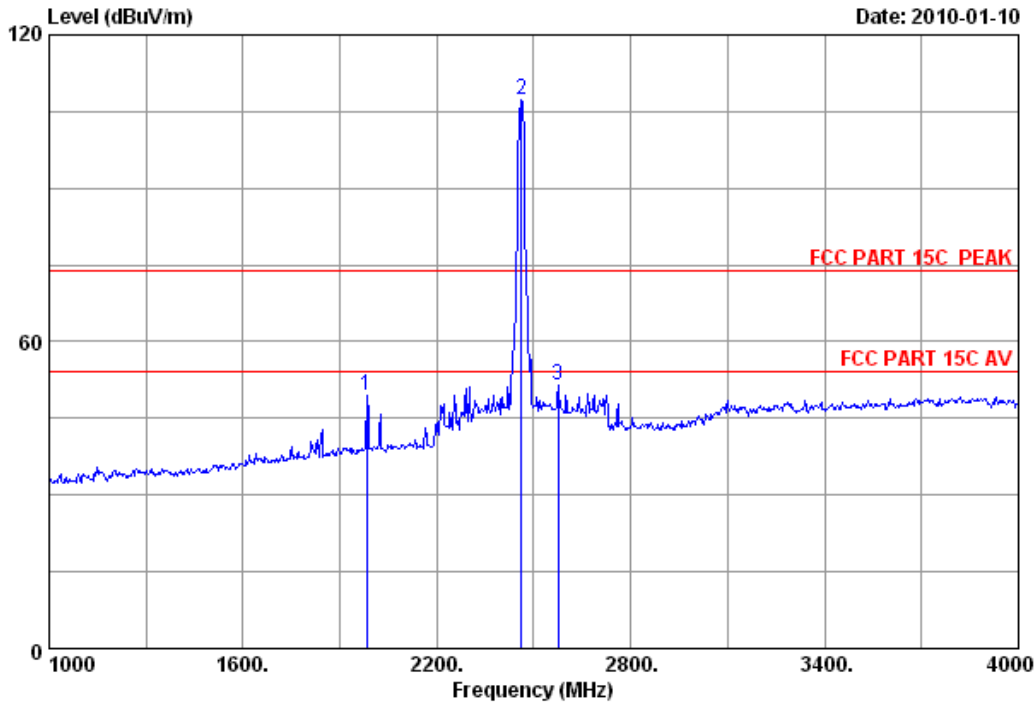
Remarks:

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: 50 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1984.000 | 29.11 | 7.76 | 48.80 | 49.61 | 74.00 | 24.39 | Peak |
| 2 | 2462.000 | 29.48 | 8.76 | 105.00 | 107.22 | 74.00 | -33.22 | Peak |
| 3 | 2575.000 | 29.92 | 9.21 | 48.15 | 51.50 | 74.00 | 22.50 | Peak |

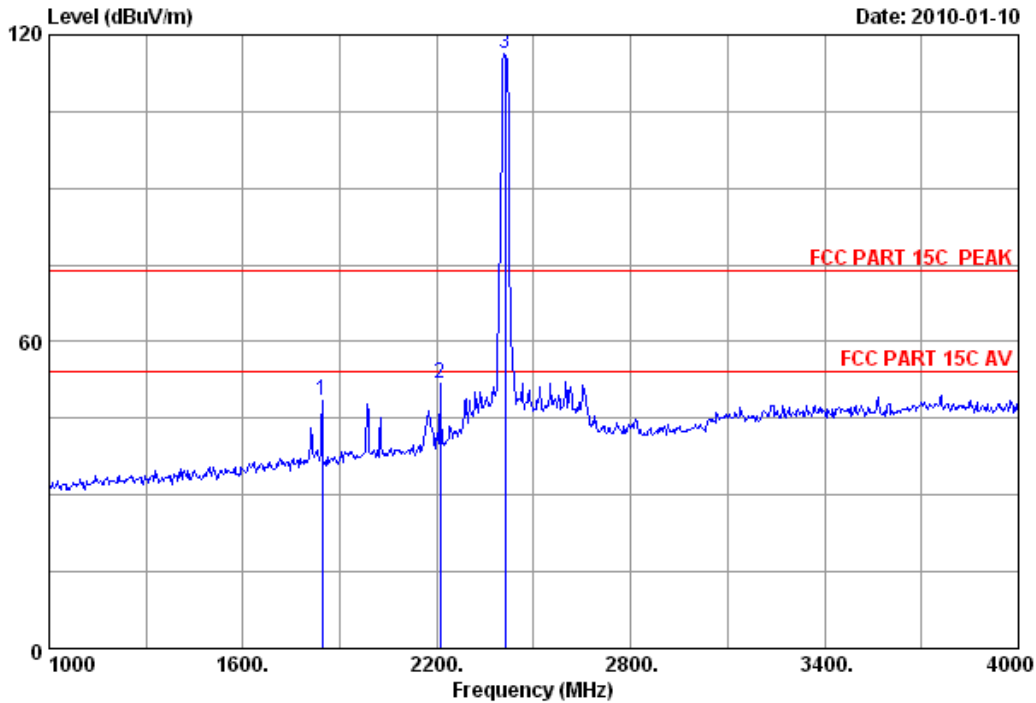
Remarks:

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: 51 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 51
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1846.000 | 28.36 | 7.52 | 48.68 | 48.33 | 74.00 | 25.67 | Peak |
| 2 | 2209.000 | 29.32 | 8.36 | 50.30 | 51.96 | 74.00 | 22.04 | Peak |
| 3 | 2412.000 | 29.45 | 8.60 | 114.16 | 116.26 | 74.00 | -42.26 | Peak |

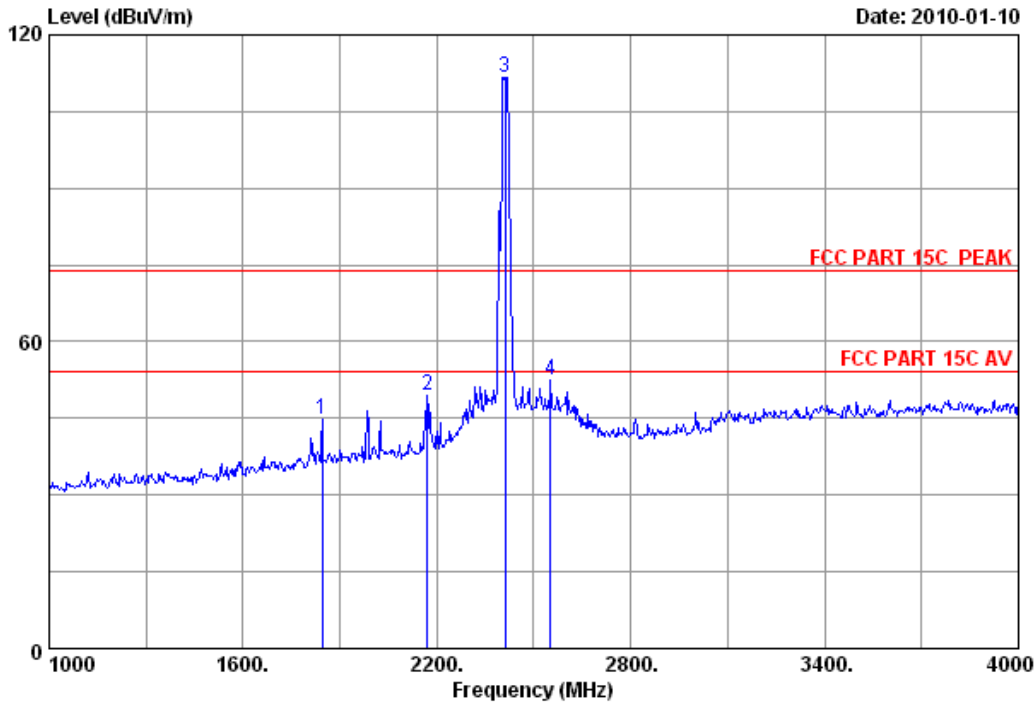
Remarks:

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: 52 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1846.000 | 28.36 | 7.52 | 44.98 | 44.63 | 74.00 | 29.37 | Peak |
| 2 | 2170.000 | 29.30 | 8.12 | 48.07 | 49.54 | 74.00 | 24.46 | Peak |
| 3 | 2412.000 | 29.45 | 8.60 | 109.69 | 111.79 | 74.00 | -37.79 | Peak |
| 4 | 2551.000 | 29.75 | 9.22 | 49.58 | 52.62 | 74.00 | 21.38 | Peak |

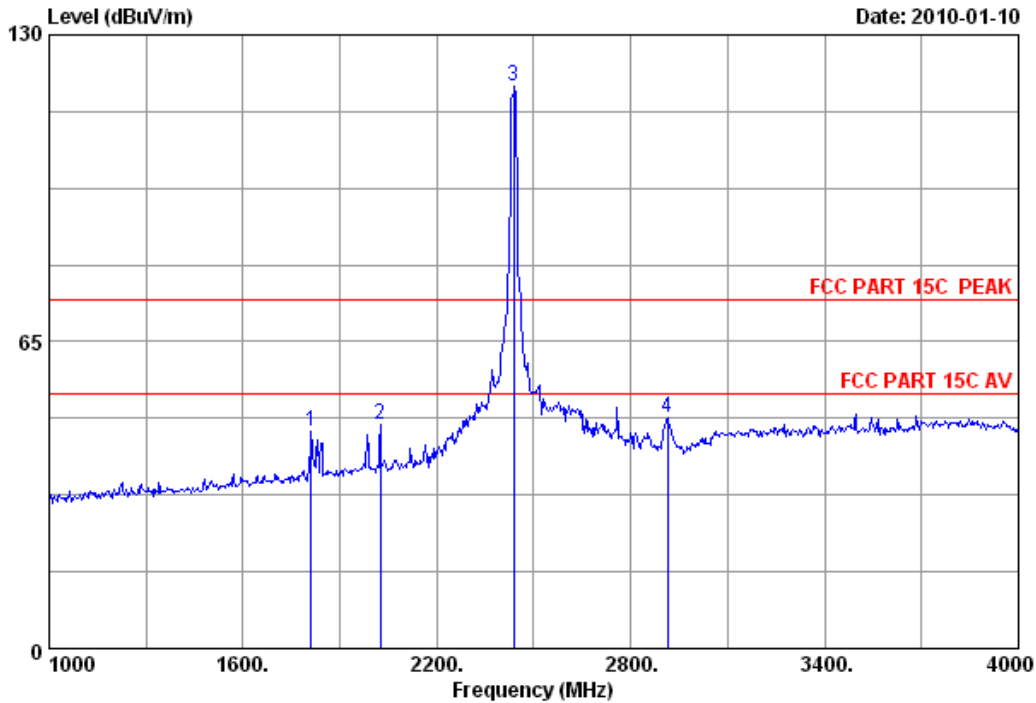
Remarks:

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: 53 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 53
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1810.000 | 28.17 | 7.46 | 46.72 | 46.01 | 74.00 | 27.99 | Peak |
| 2 | 2026.000 | 29.21 | 7.80 | 46.63 | 47.52 | 74.00 | 26.48 | Peak |
| 3 | 2437.000 | 29.47 | 8.60 | 117.07 | 119.08 | 74.00 | -45.08 | Peak |
| 4 | 2914.000 | 31.58 | 9.55 | 43.59 | 48.81 | 74.00 | 25.19 | Peak |

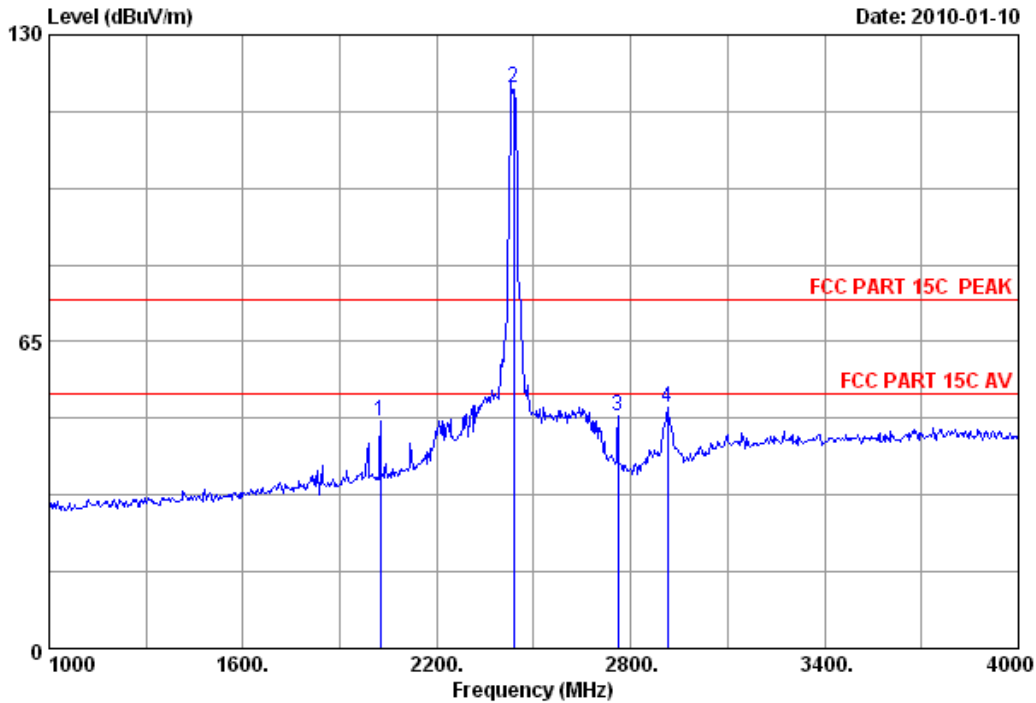
Remarks:

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: 54 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2026.000 | 29.21 | 7.80 | 47.30 | 48.19 | 74.00 | 25.81 | Peak |
| 2 | 2437.000 | 29.47 | 8.60 | 116.95 | 118.96 | 74.00 | -44.96 | Peak |
| 3 | 2761.000 | 30.83 | 9.80 | 44.70 | 49.35 | 74.00 | 24.65 | Peak |
| 4 | 2914.000 | 31.58 | 9.55 | 45.71 | 50.93 | 74.00 | 23.07 | Peak |

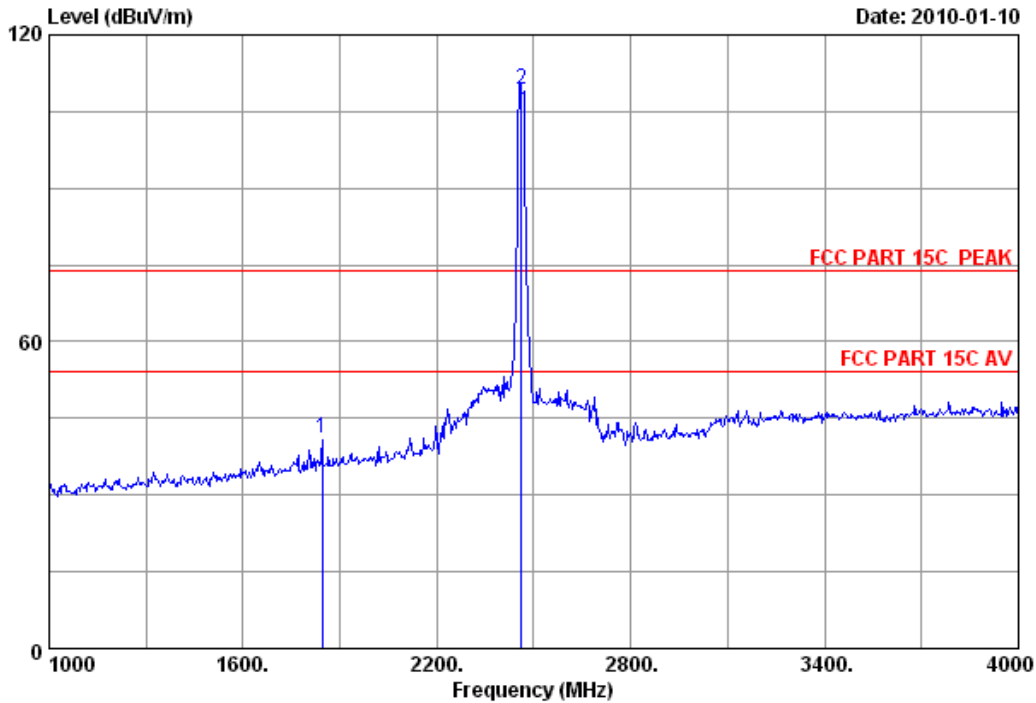
Remarks:

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: 55 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 55
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1846.000 | 28.36 | 7.52 | 41.34 | 40.99 | 74.00 | 33.01 | Peak |
| 2 | 2462.000 | 29.48 | 8.76 | 107.14 | 109.36 | 74.00 | -35.36 | Peak |

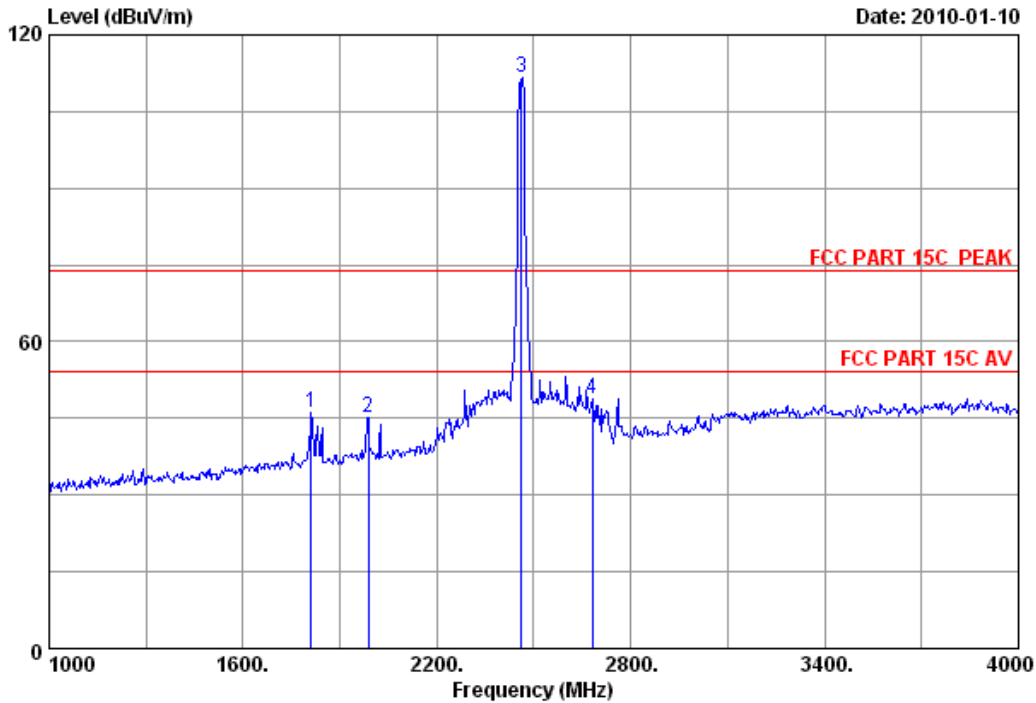
Remarks:

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: 56 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 10m Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1810.000 | 28.17 | 7.46 | 46.81 | 46.10 | 74.00 | 27.90 | Peak |
| 2 | 1987.000 | 29.11 | 7.76 | 44.35 | 45.16 | 74.00 | 28.84 | Peak |
| 3 | 2462.000 | 29.48 | 8.76 | 109.50 | 111.72 | 74.00 | -37.72 | Peak |
| 4 | 2680.000 | 30.42 | 9.21 | 45.21 | 48.93 | 74.00 | 25.07 | Peak |

Remarks:

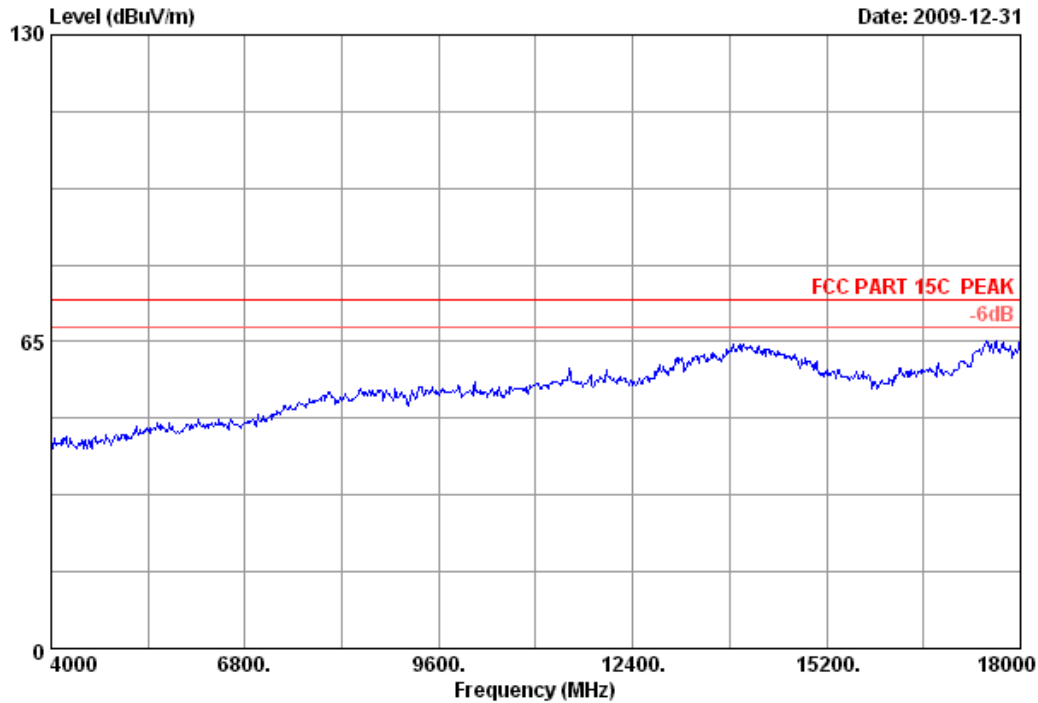
1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Postcode:518057

Data: 29

File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)

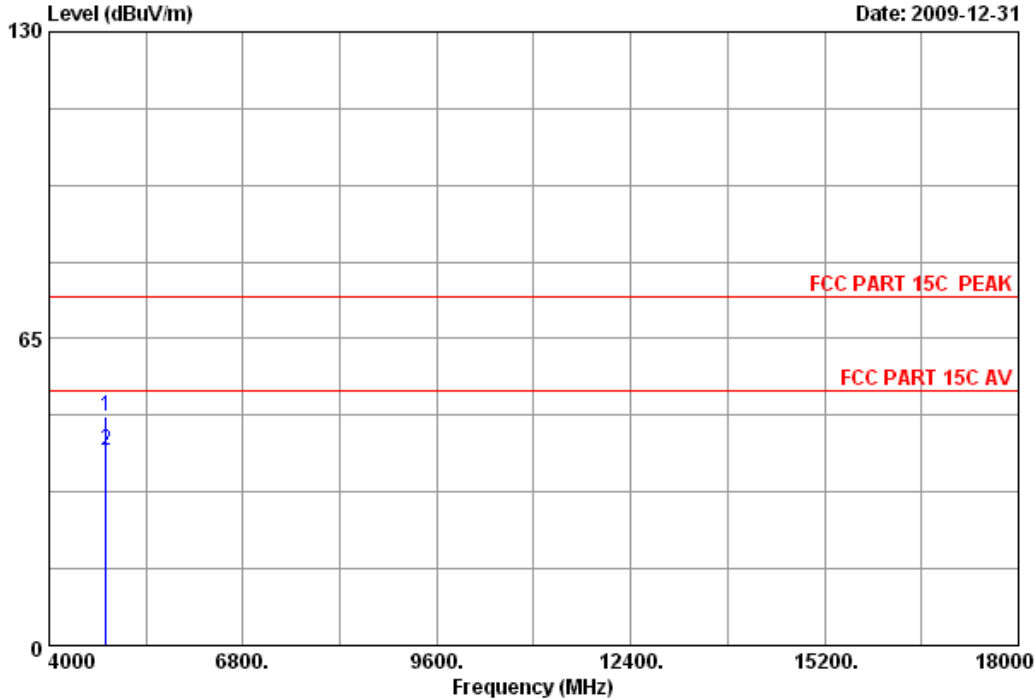


| | | | |
|--------------|--|-----------|-------------|
| Site no. | : 10m Chamber | Data no. | : 29 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : C1 WiFi CPE/AP | | |
| Power Rating | : DC 12V From Adapter input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH1 2412MHz | | |
| M/N | : WA1011C | | |



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Data: 30 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.58 | 36.87 | 48.52 | 74.00 | 25.48 | Peak |
| 2 | 4824.000 | 34.32 | 12.58 | 29.72 | 41.37 | 54.00 | 12.63 | Average |

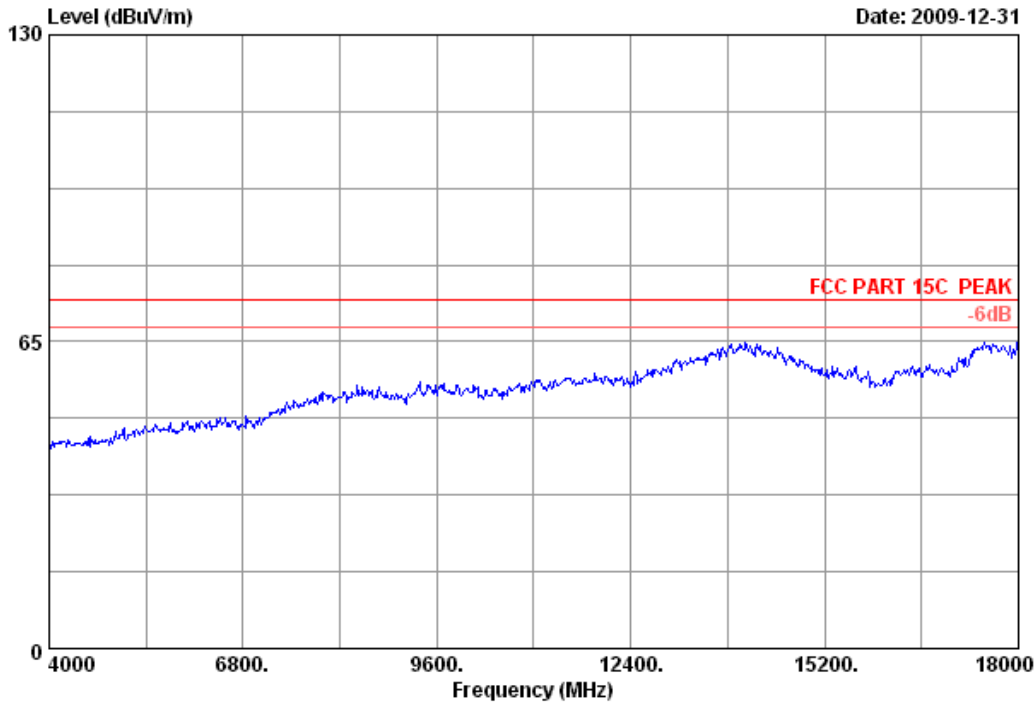
Remarks:

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: 31 File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)

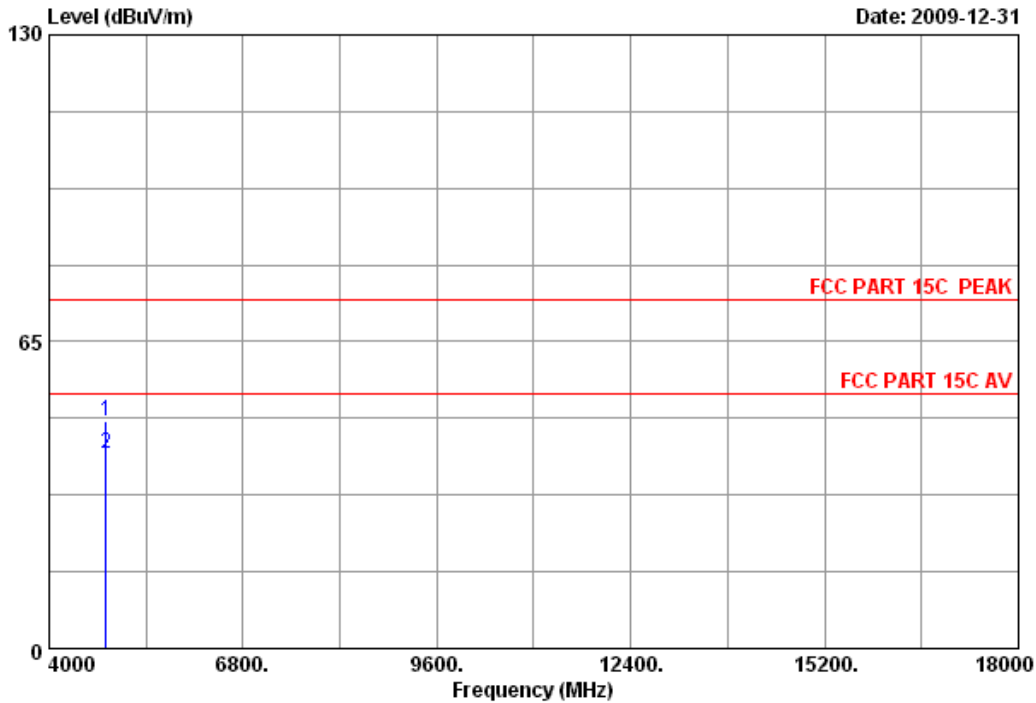


| | | | |
|--------------|--|-----------|--------------|
| Site no. | : 10m Chamber | Data no. | : 31 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : C1 WiFi CPE/AP | | |
| Power Rating | : DC 12V From Adapter input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH1 2412MHz | | |
| M/N | : WA1011C | | |



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Data: 32 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4824.000 | 34.32 | 12.58 | 36.55 | 48.20 | 74.00 | 25.80 | Peak |
| 2 | 4824.000 | 34.32 | 12.58 | 29.68 | 41.33 | 54.00 | 12.67 | Average |

Remarks:

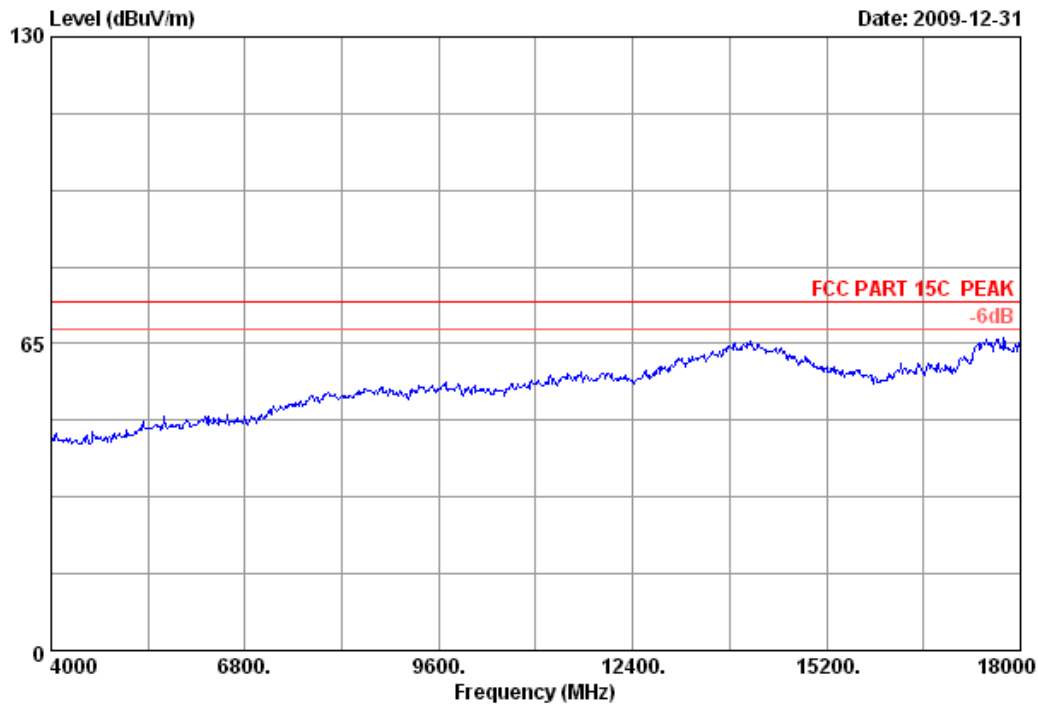
1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 33

File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)

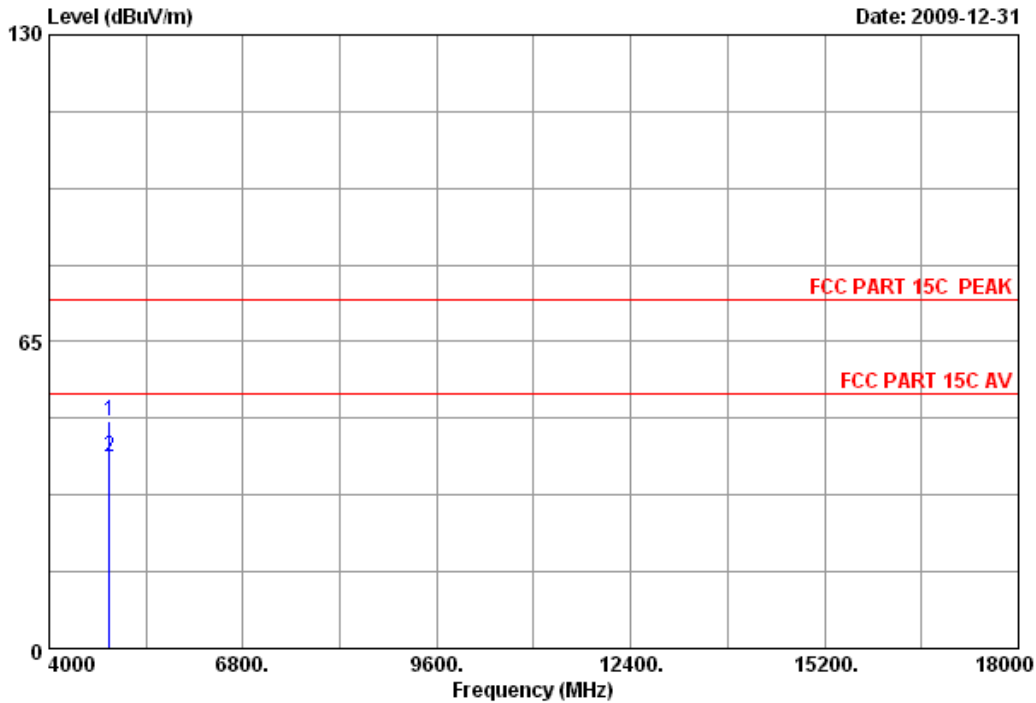


| | | | |
|--------------|--|-----------|--------------|
| Site no. | : 10m Chamber | Data no. | : 33 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : C1 WiFi CPE/AP | | |
| Power Rating | : DC 12V From Adapter input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH6 2437MHz | | |
| M/N | : WA1011C | | |



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Data: 34 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.23 | 36.97 | 48.25 | 74.00 | 25.75 | Peak |
| 2 | 4874.000 | 34.41 | 12.23 | 29.37 | 40.65 | 54.00 | 13.35 | Average |

Remarks:

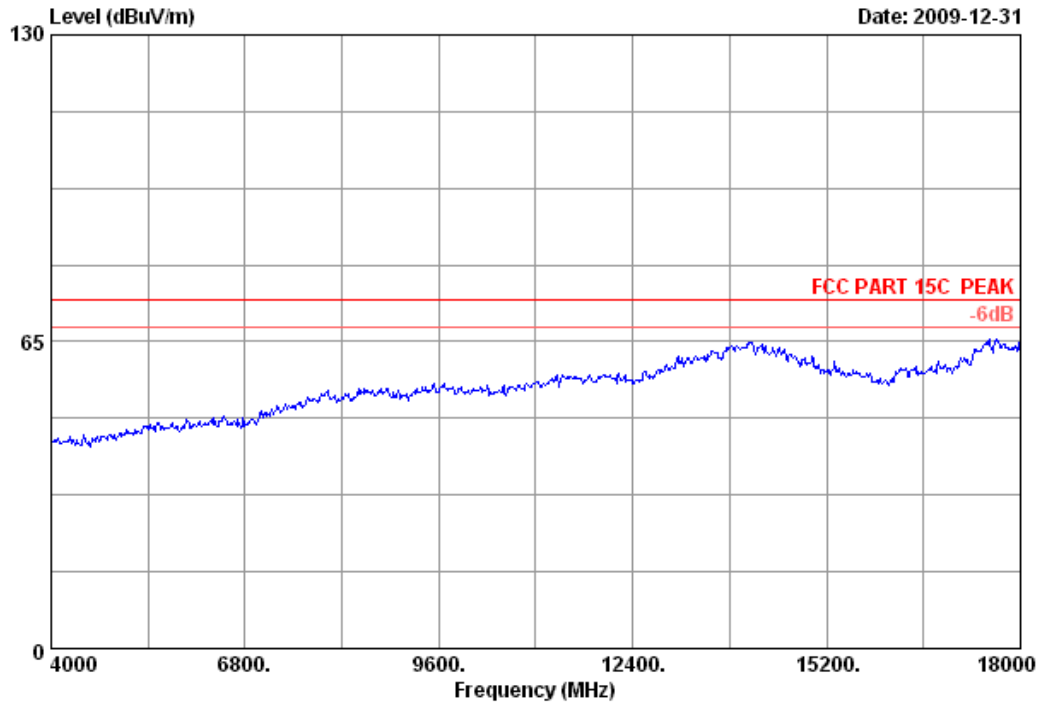
1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 35

File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)

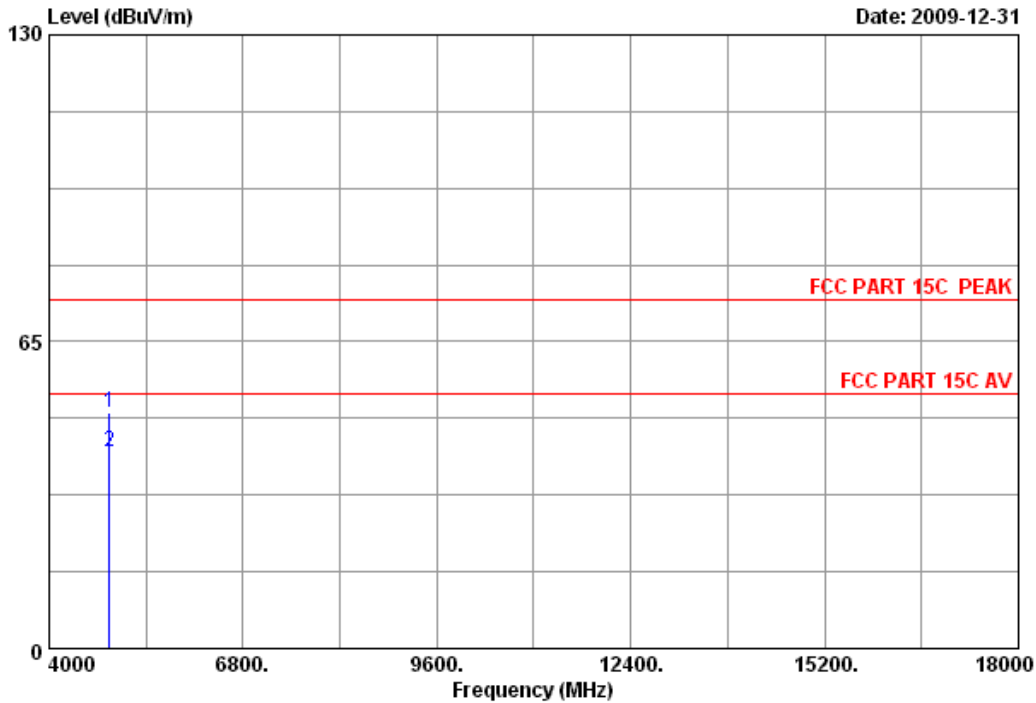


| | | | |
|--------------|--|-----------|-------------|
| Site no. | : 10m Chamber | Data no. | : 35 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : C1 WiFi CPE/AP | | |
| Power Rating | : DC 12V From Adapter input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH6 2437MHz | | |
| M/N | : WA1011C | | |



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Data: 36 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4874.000 | 34.41 | 12.23 | 38.65 | 49.93 | 74.00 | 24.07 | Peak |
| 2 | 4874.000 | 34.41 | 12.23 | 30.24 | 41.52 | 54.00 | 12.48 | Average |

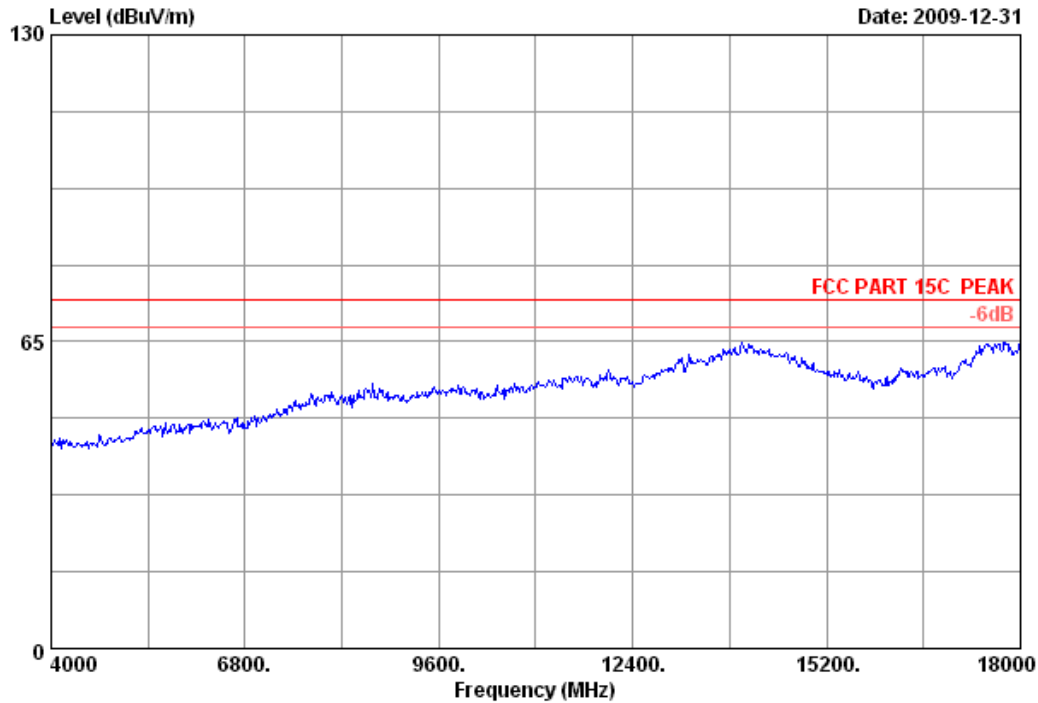
Remarks:

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: 37 File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)

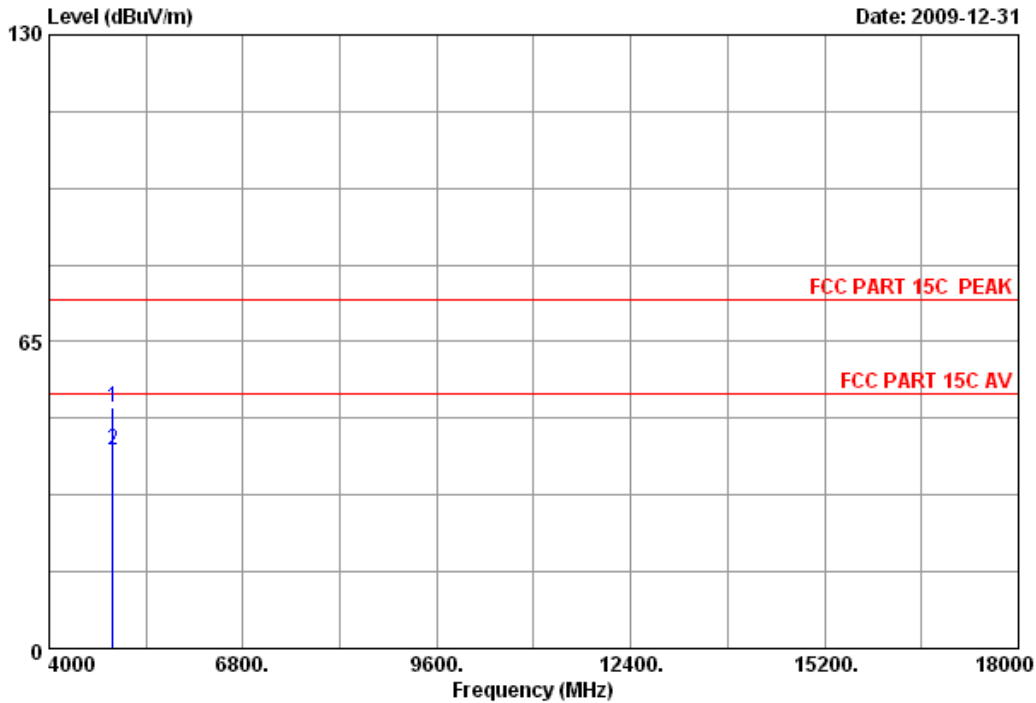


| | | | |
|--------------|--|-----------|-------------|
| Site no. | : 10m Chamber | Data no. | : 37 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : C1 WiFi CPE/AP | | |
| Power Rating | : DC 12V From Adapter input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH11 2462MHz | | |
| M/N | : WA1011C | | |



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Data: 38 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 34.49 | 12.58 | 39.37 | 51.10 | 74.00 | 22.90 | Peak |
| 2 | 4924.000 | 34.49 | 12.58 | 30.28 | 42.01 | 54.00 | 11.99 | Average |

Remarks:

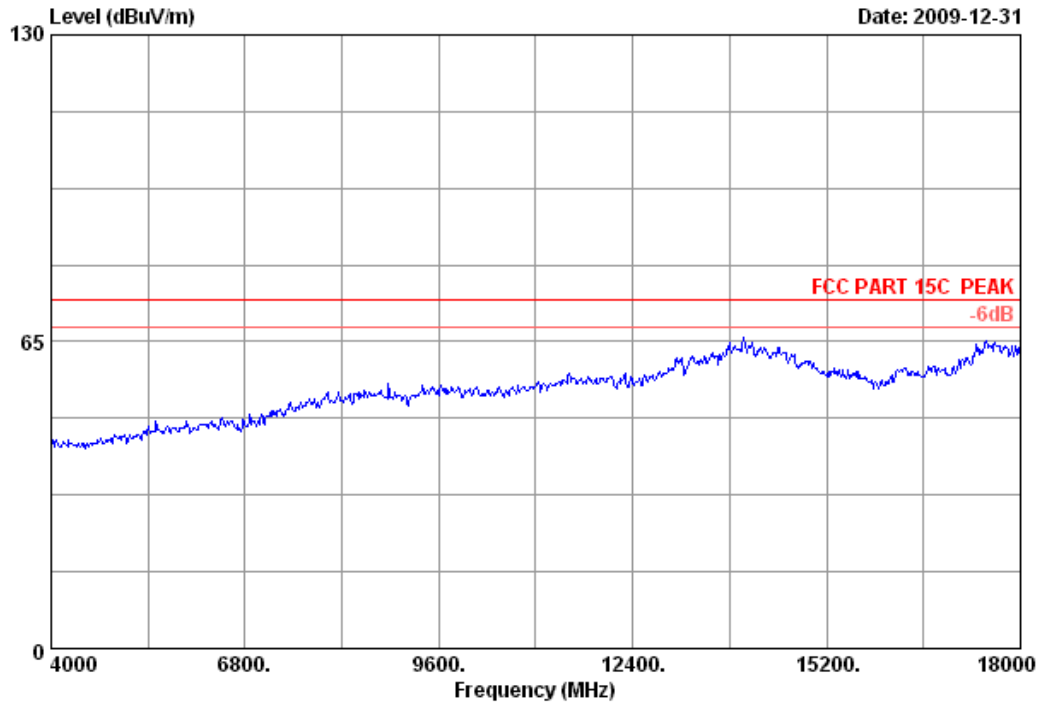
1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 39

File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)

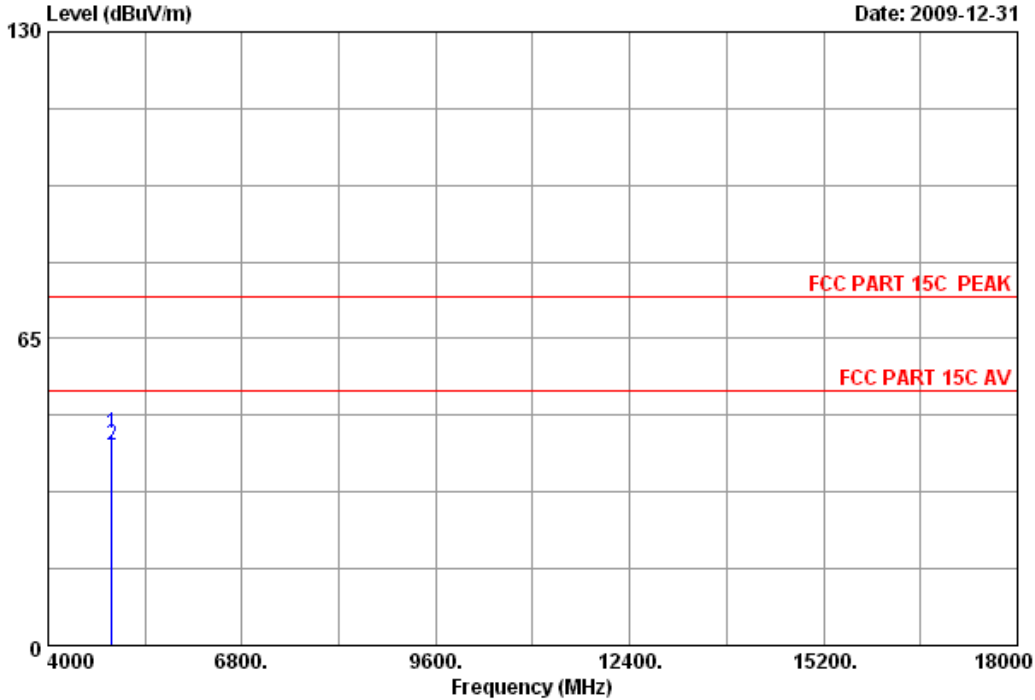


| | | | |
|--------------|--|-----------|--------------|
| Site no. | : 10m Chamber | Data no. | : 39 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Paul Tian |
| EUT | : C1 WiFi CPE/AP | | |
| Power Rating | : DC 12V From Adapter input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH11 2462MHz | | |
| M/N | : WA1011C | | |



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Data: 40 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 4924.000 | 34.49 | 12.58 | 33.29 | 45.02 | 74.00 | 28.98 | Peak |
| 2 | 4924.000 | 34.49 | 12.58 | 30.81 | 42.54 | 54.00 | 11.46 | Average |

Remarks:

1. Emission Level= Antenna Factor + Cable Loss + 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.08, 09 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 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.

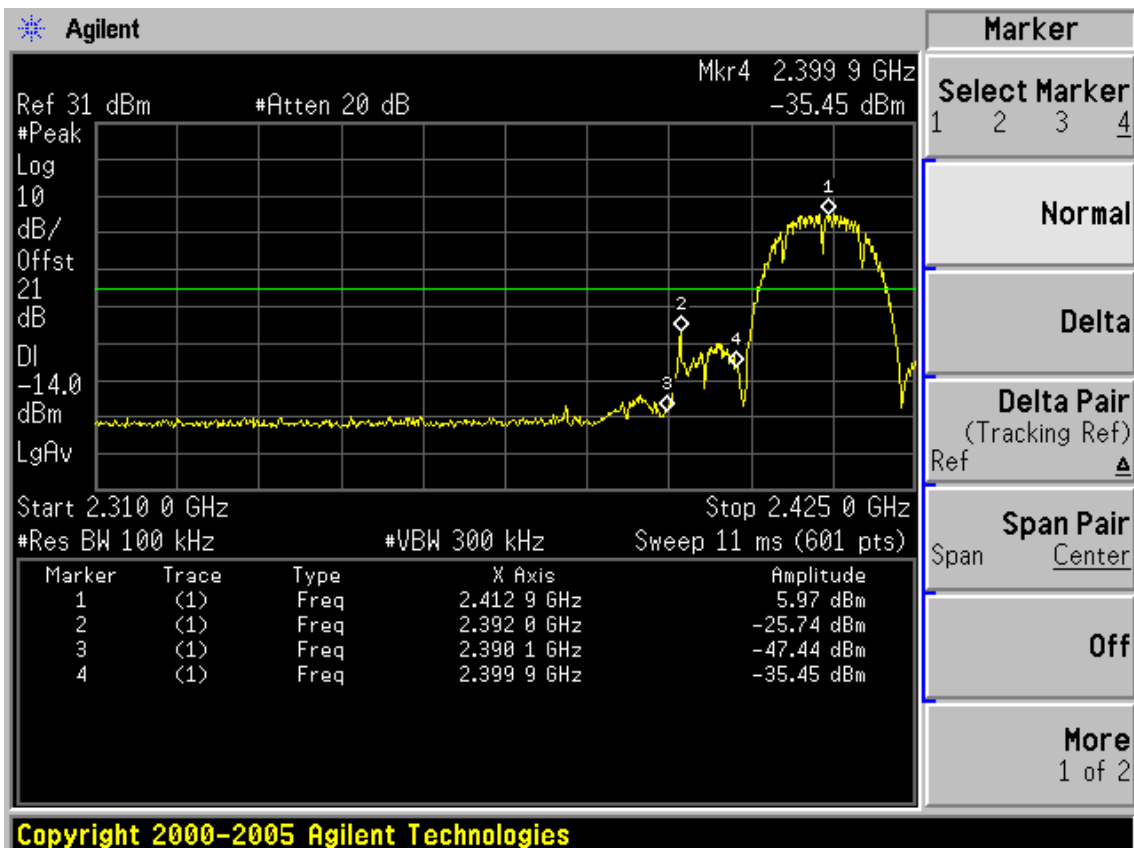
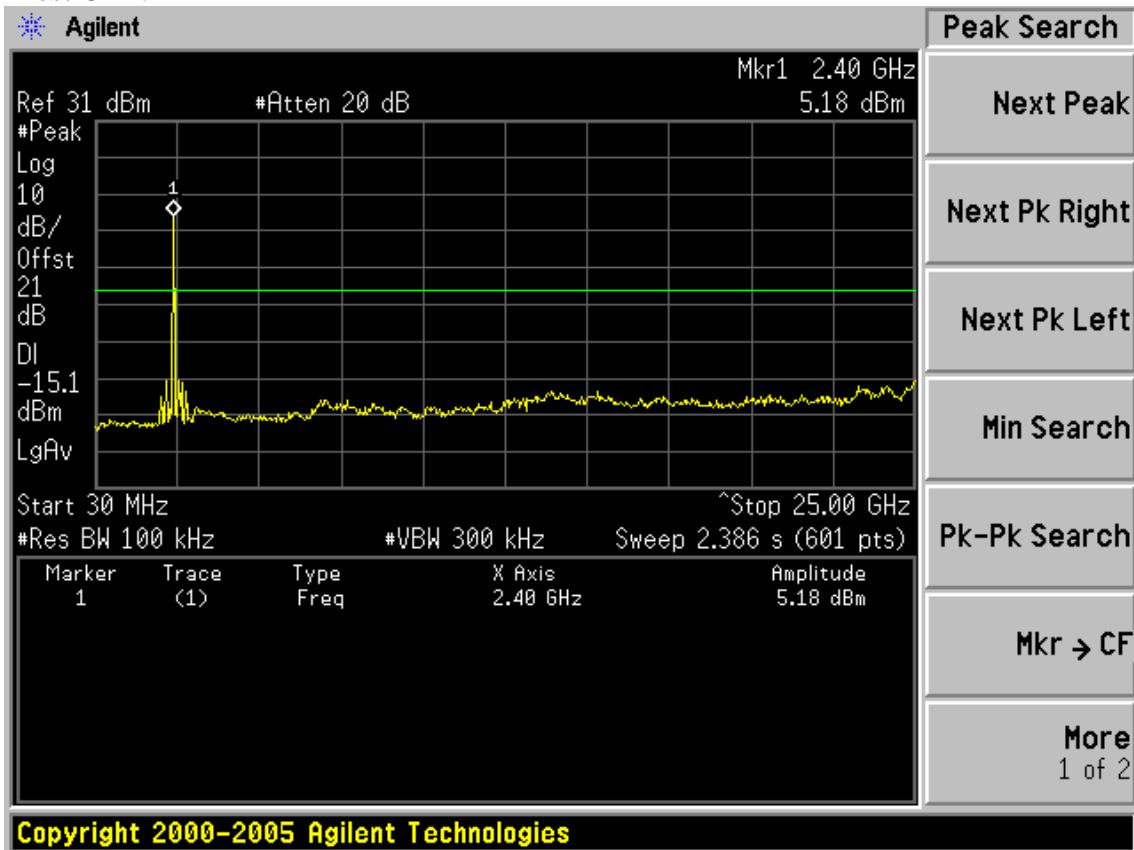
5.4. Test result

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

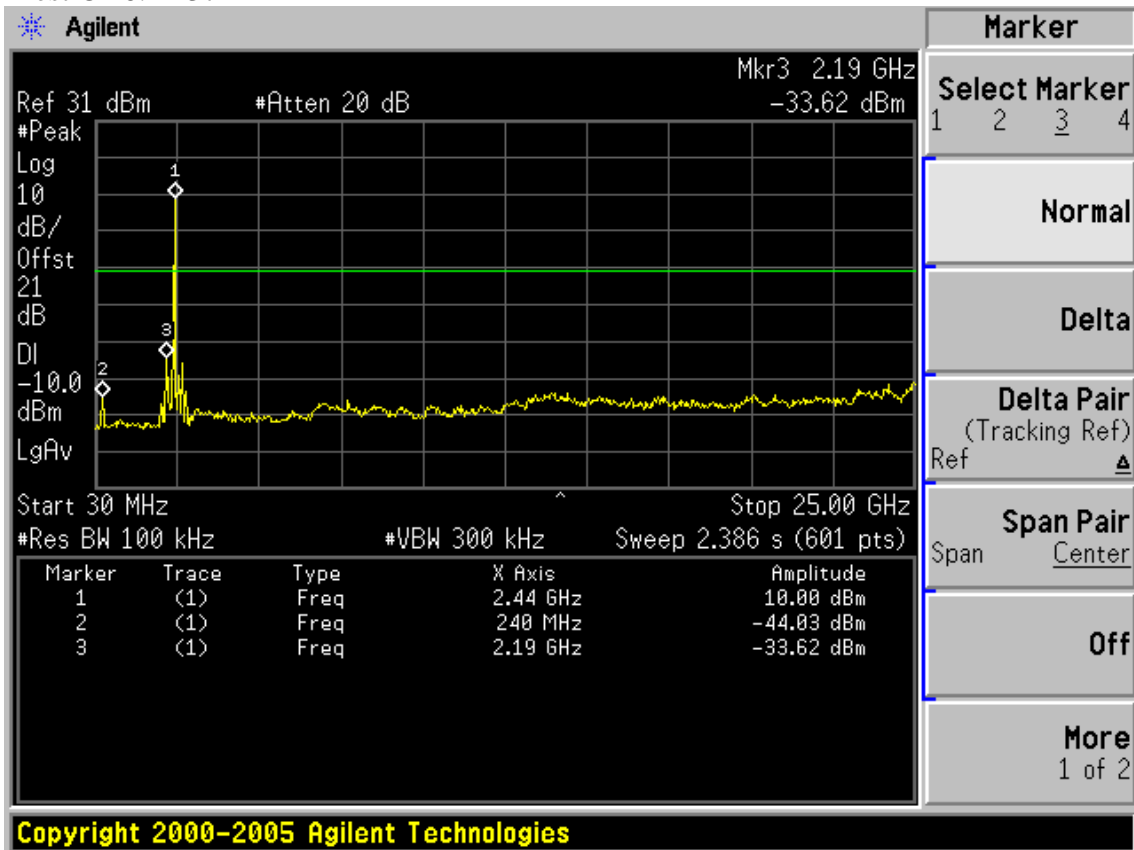
Conducted emission test data:

Test Mode: IEEE 802.11b TX

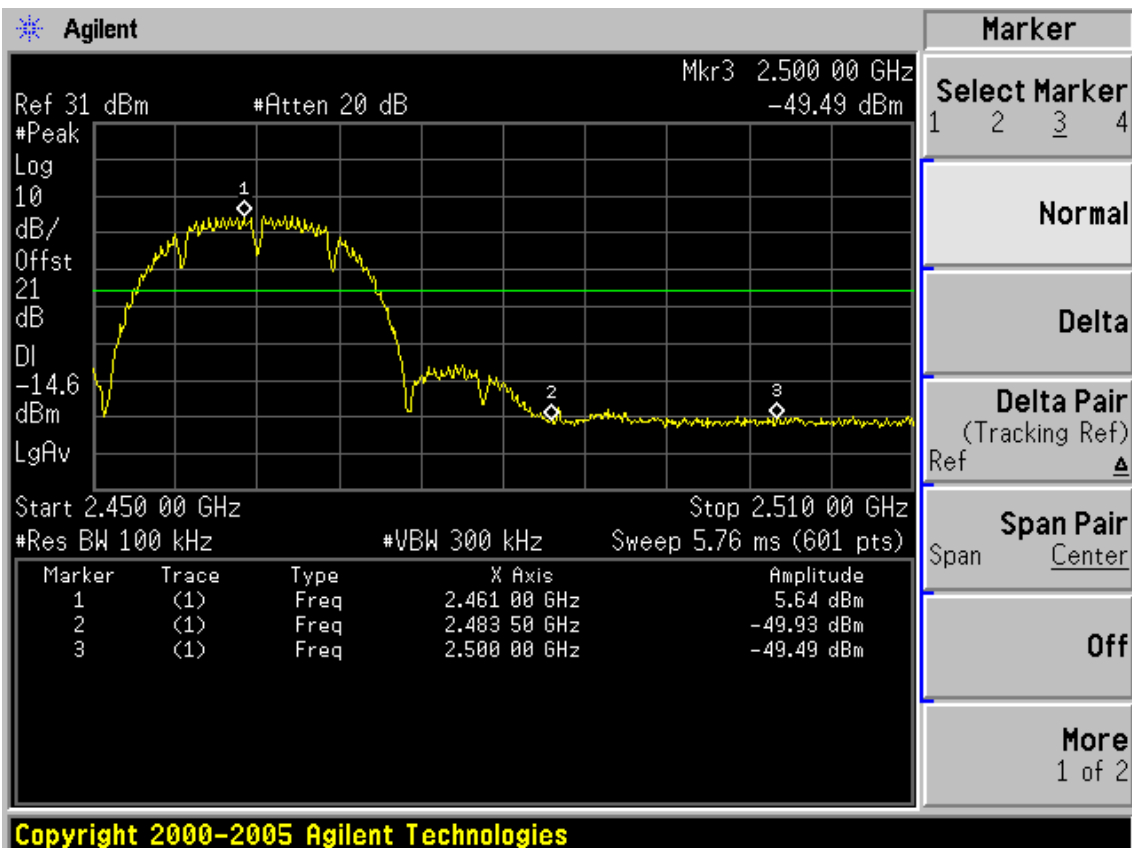
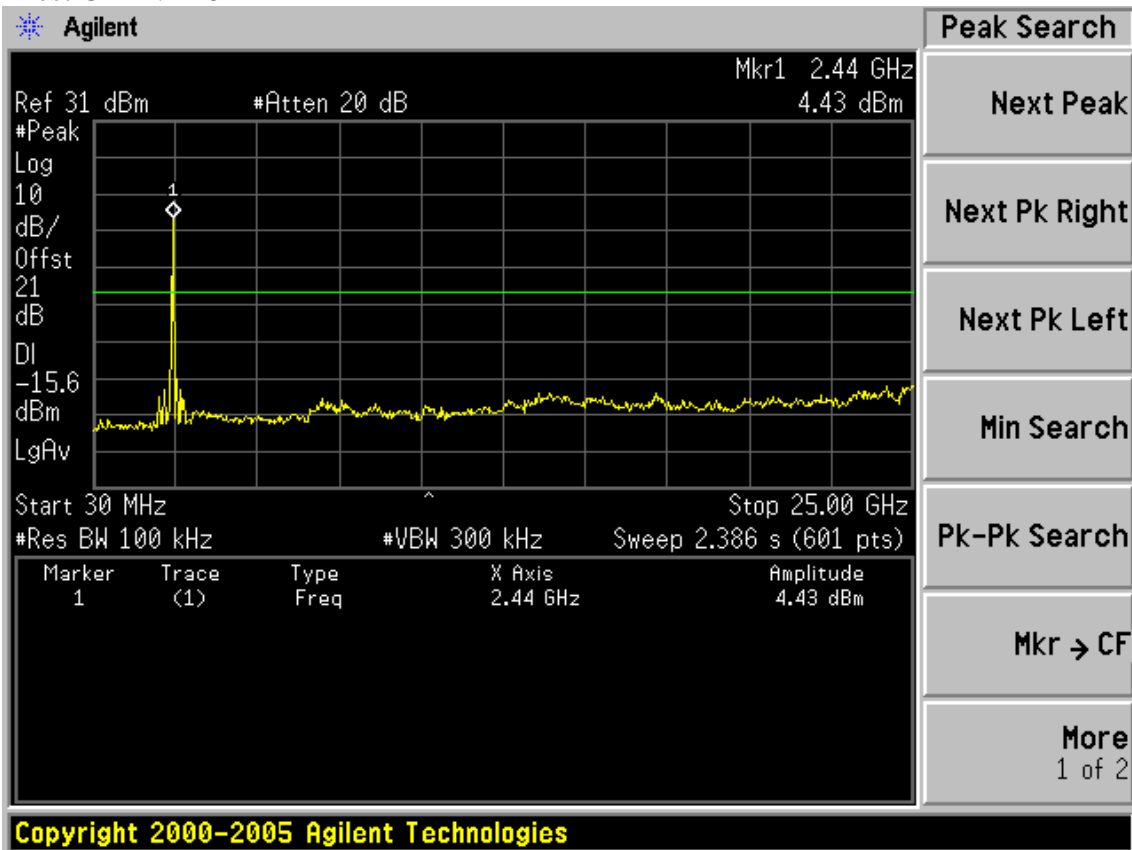
Test CH1: 2412MHz



Test CH6: 2437MHz

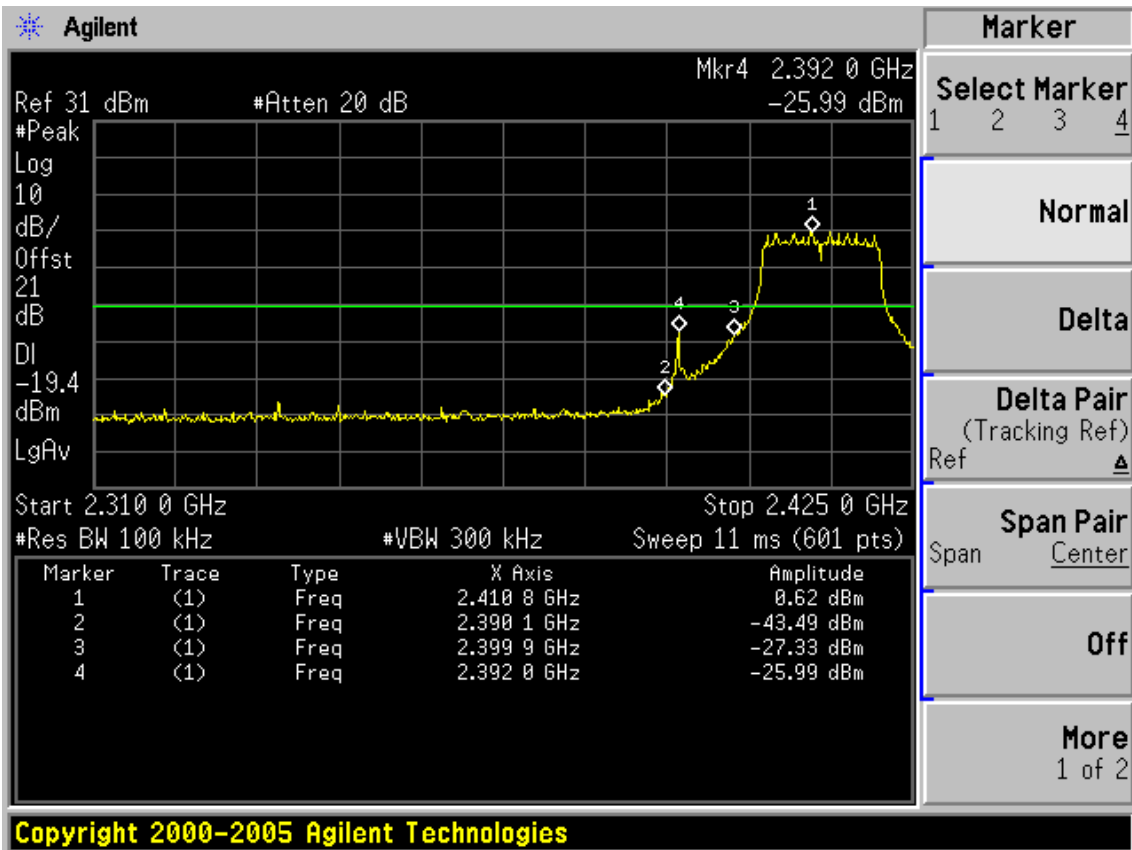
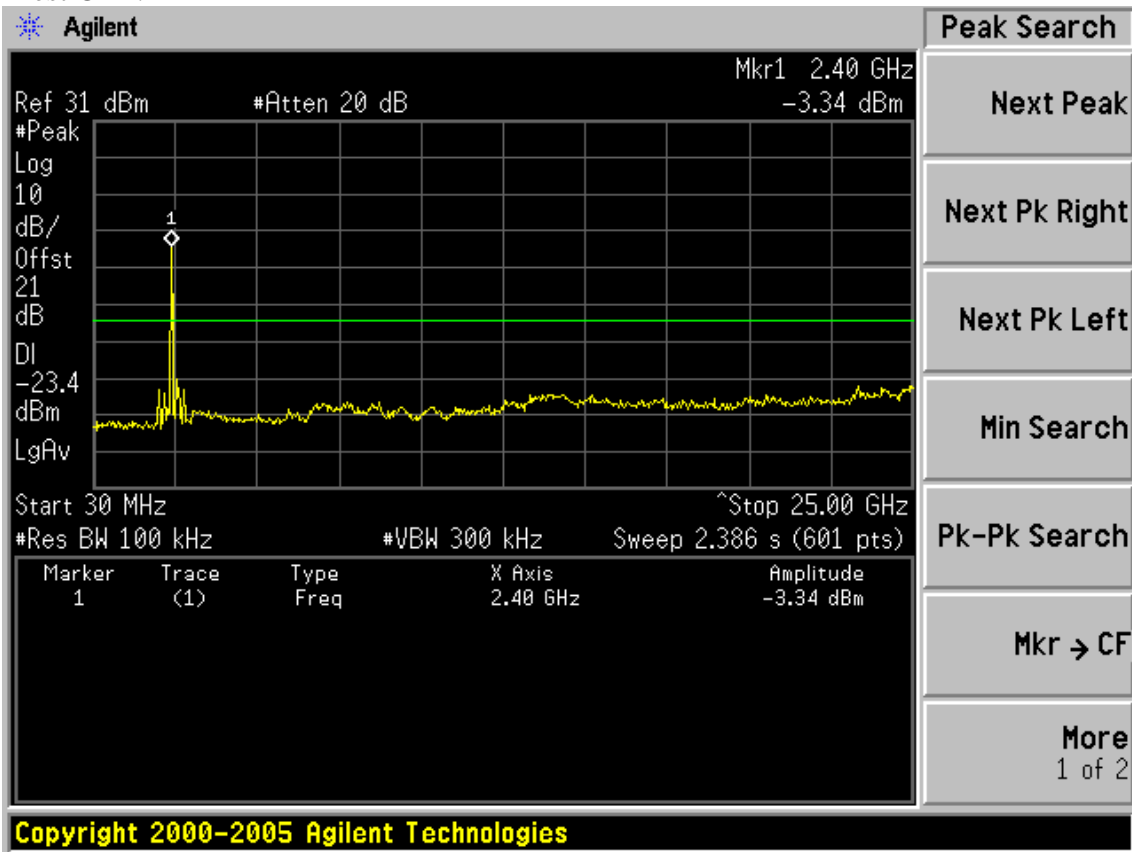


Test CH11: 2462MHz

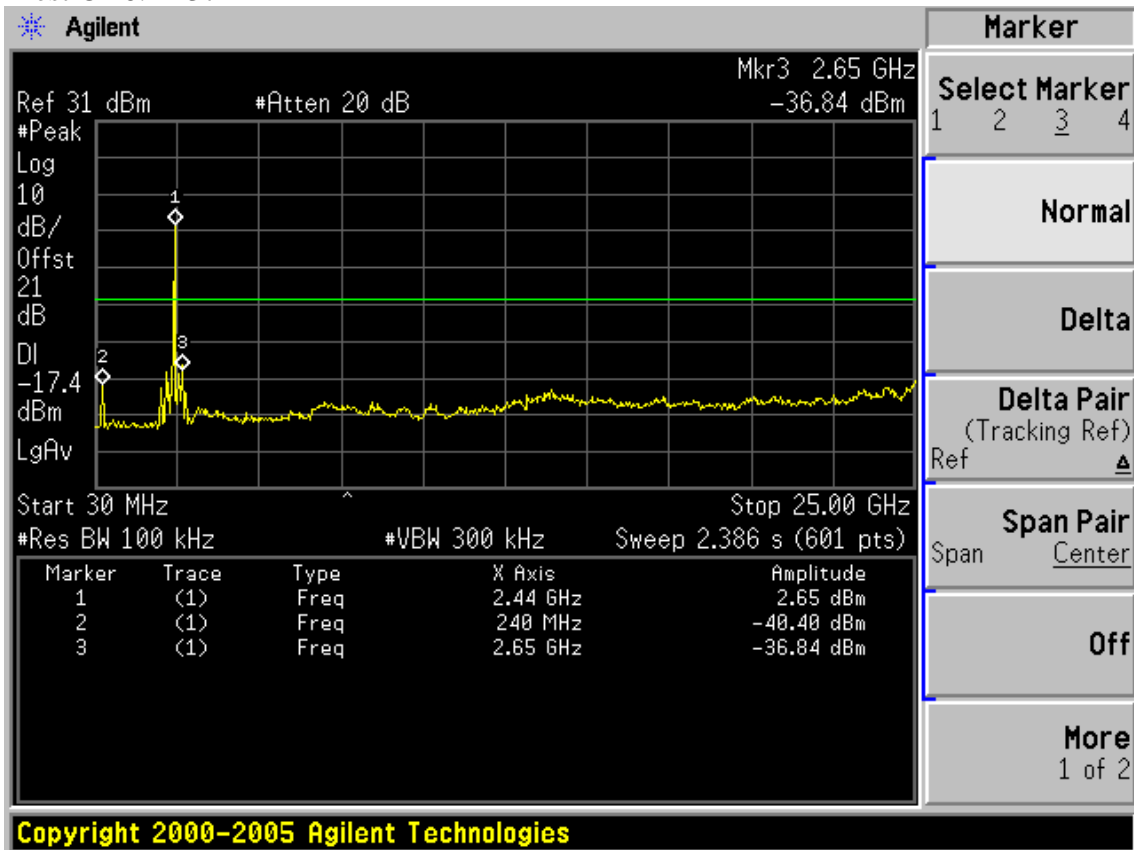


Test Mode: IEEE 802.11g TX

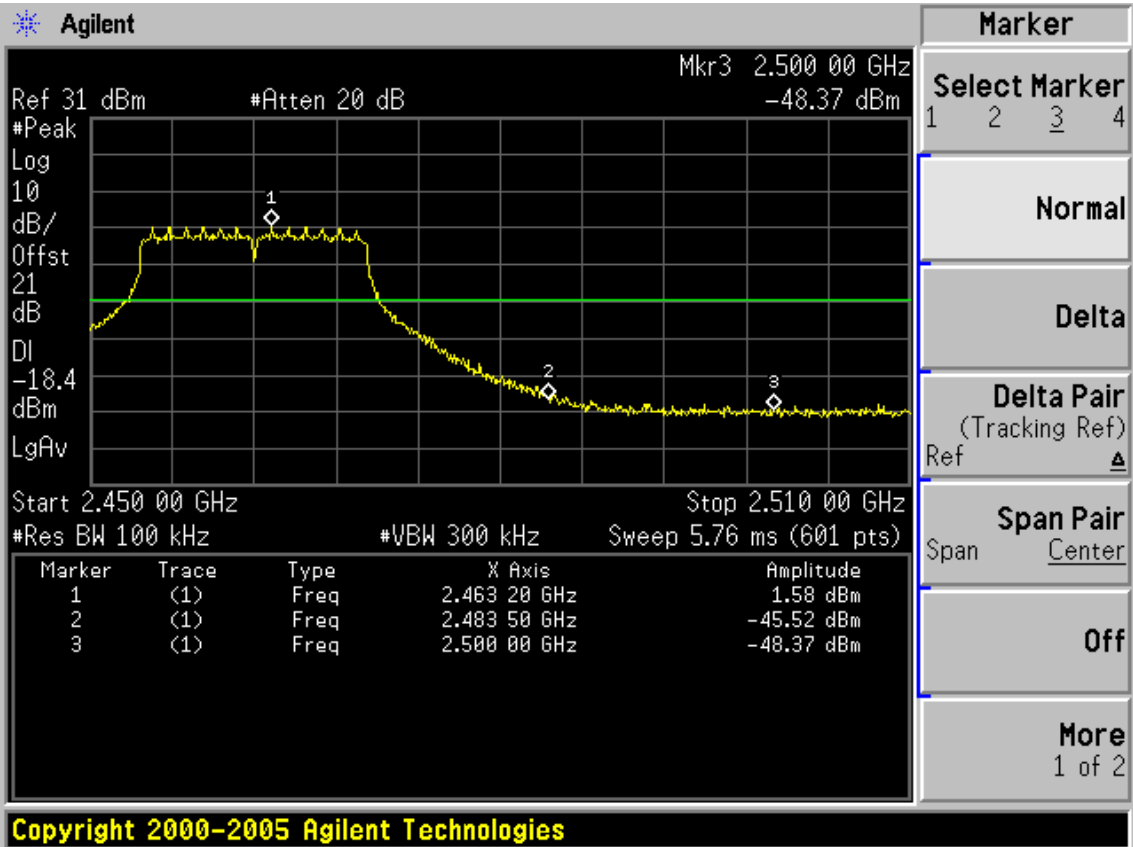
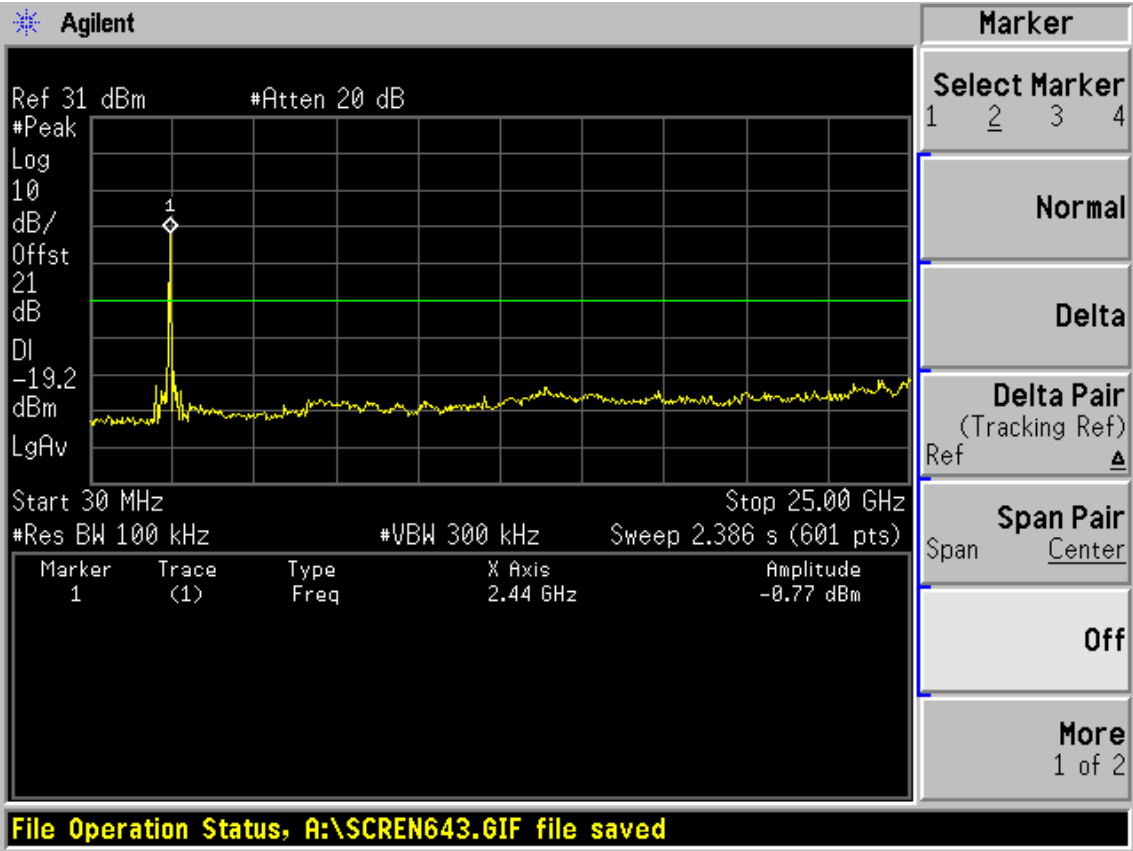
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



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.08, 09 | 1 Year |
| 2. | Horn Antenna | EMCO | 3115 | 9607-4877 | Nov.25, 09 | 1.5 Year |
| 3. | Amplifier | Agilent | 8449B | 3008A02495 | May.08, 09 | 1 Year |
| 4. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28620/2 | May.08, 09 | 1 Year |
| 5. | RF Cable | Hubersuhner | SUCOFLEX 102 | 271471/4 | May.08, 09 | 1 Year |
| 6. | RF Cable | Hubersuhner | SUCOFLEX 102 | 29086/2 | May.08, 09 | 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

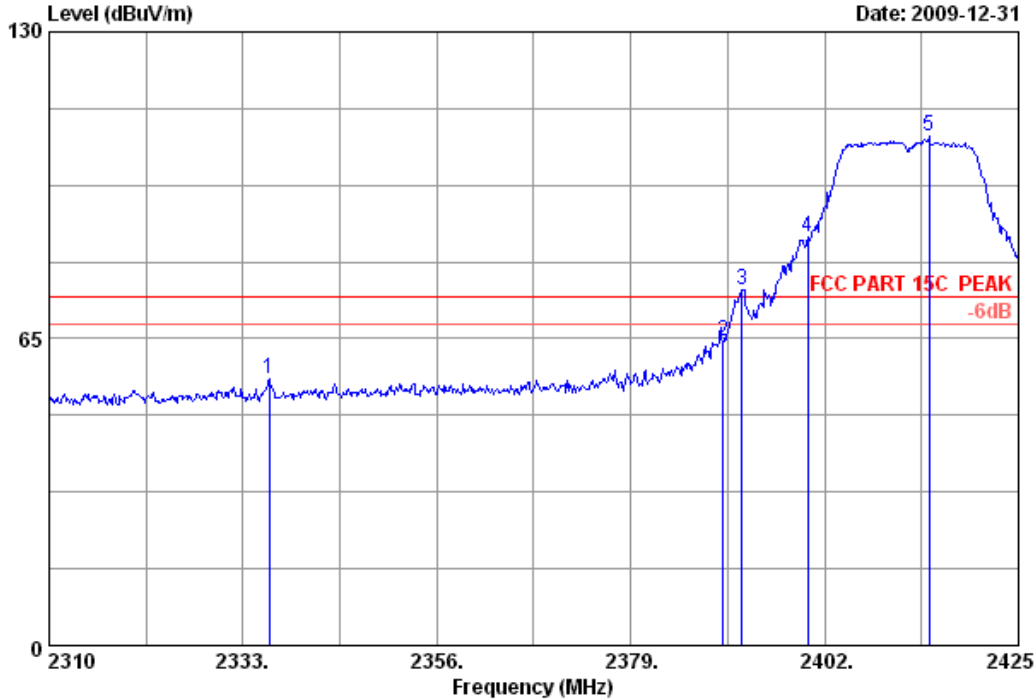
Pass (The testing data was attached in the next pages.)

All the emissions outside operation frequency band were comply with 15.209 limit



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Data: 1 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2336.105 | 29.41 | 8.64 | 54.44 | 56.50 | 74.00 | 17.50 | Peak |
| 2 | 2390.000 | 29.44 | 8.41 | 62.82 | 64.58 | 74.00 | 9.42 | Peak |
| 3 | 2392.225 | 29.44 | 8.41 | 73.73 | 75.49 | 74.00 | -1.49 | Peak |
| 4 | 2400.000 | 29.44 | 8.60 | 84.60 | 86.55 | 74.00 | -12.55 | Peak |
| 5 | 2414.420 | 29.45 | 8.60 | 105.63 | 107.73 | 74.00 | -33.73 | Peak |

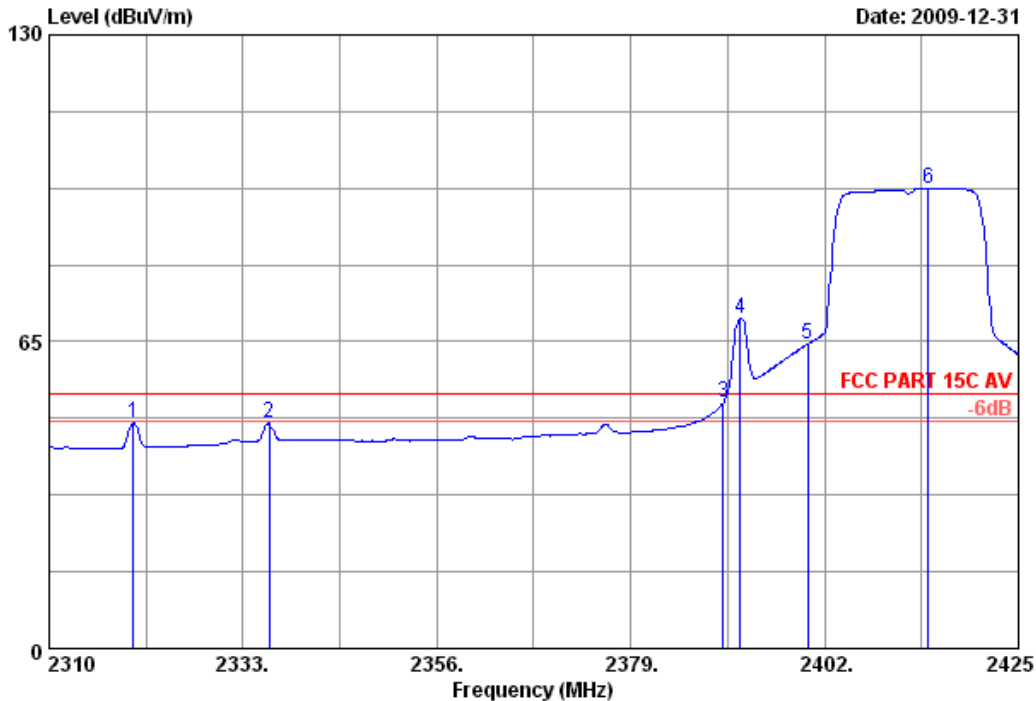
Remarks:

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: 2 File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2320.005 | 29.40 | 8.64 | 45.69 | 47.67 | 54.00 | 6.33 | Average |
| 2 | 2336.105 | 29.41 | 8.64 | 45.66 | 47.72 | 54.00 | 6.28 | Average |
| 3 | 2390.000 | 29.44 | 8.41 | 50.44 | 52.20 | 54.00 | 1.80 | Average |
| 4 | 2391.995 | 29.44 | 8.41 | 68.30 | 70.06 | 54.00 | -16.06 | Average |
| 5 | 2400.000 | 29.44 | 8.60 | 62.61 | 64.56 | 54.00 | -10.56 | Average |
| 6 | 2414.305 | 29.45 | 8.60 | 95.47 | 97.57 | 54.00 | -43.57 | Average |

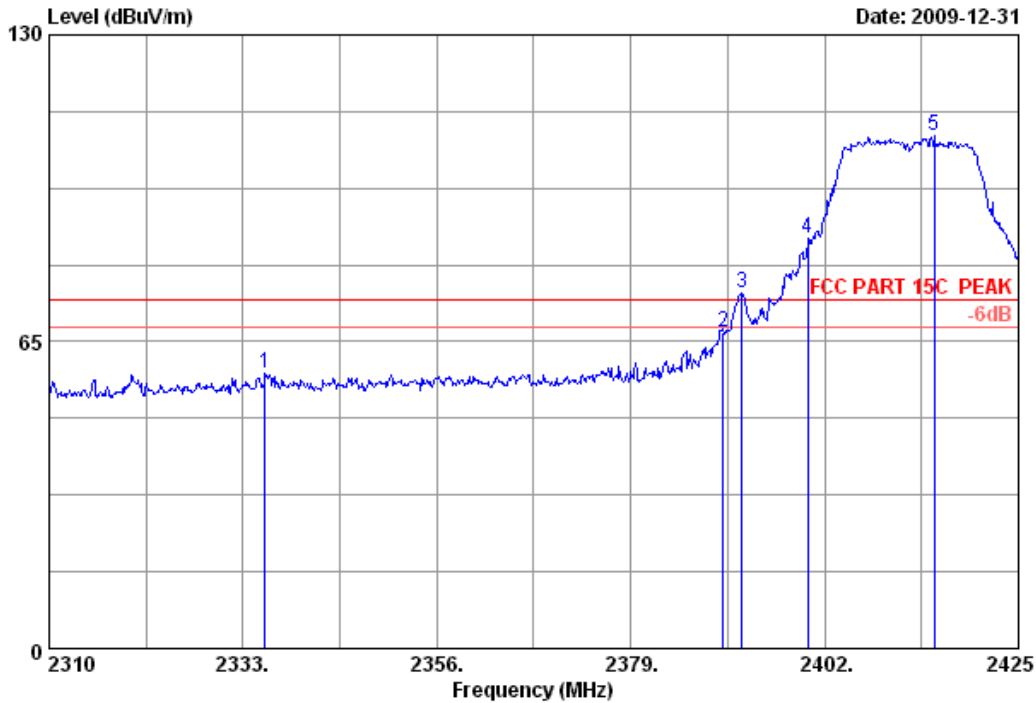
Remarks:

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: 3 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (56)



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | 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 | 2335.645 | 29.41 | 8.64 | 35.99 | 56.22 | 58.28 | 74.00 | 15.72 | Peak |
| 2 | 2390.000 | 29.44 | 8.41 | 36.09 | 65.27 | 67.03 | 74.00 | 6.97 | Peak |
| 3 | 2392.225 | 29.44 | 8.41 | 36.09 | 73.46 | 75.22 | 74.00 | -1.22 | Peak |
| 4 | 2400.000 | 29.44 | 8.60 | 36.09 | 84.93 | 86.88 | 74.00 | -12.88 | Peak |
| 5 | 2414.995 | 29.45 | 8.60 | 35.95 | 106.46 | 108.56 | 74.00 | -34.56 | Peak |

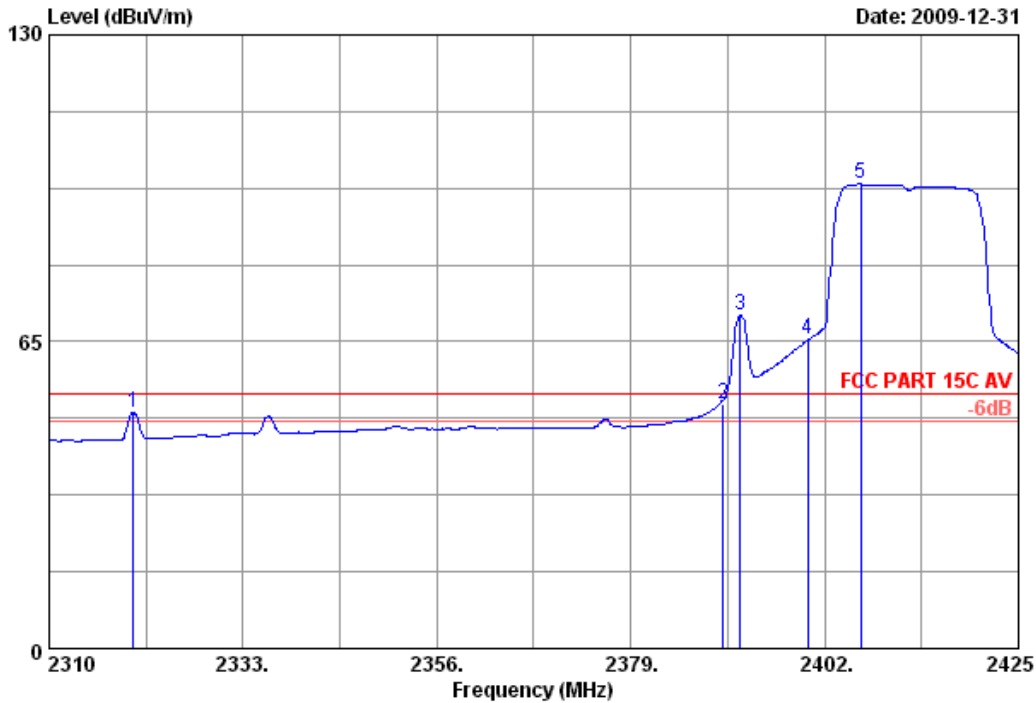
Remarks:

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: 4 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2320.005 | 29.40 | 8.64 | 48.10 | 50.08 | 54.00 | 3.92 | Average |
| 2 | 2390.000 | 29.44 | 8.41 | 49.85 | 51.61 | 54.00 | 2.39 | Average |
| 3 | 2391.995 | 29.44 | 8.41 | 68.79 | 70.55 | 54.00 | -16.55 | Average |
| 4 | 2400.000 | 29.44 | 8.60 | 63.52 | 65.47 | 54.00 | -11.47 | Average |
| 5 | 2406.255 | 29.45 | 8.60 | 96.27 | 98.37 | 54.00 | -44.37 | Average |

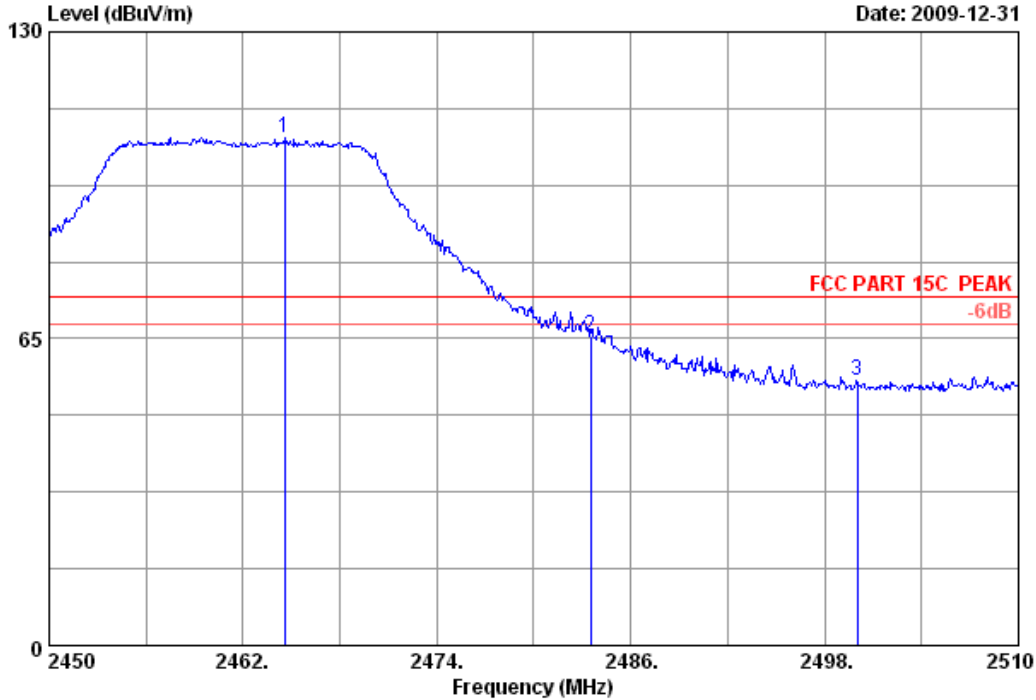
Remarks:

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: 5 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2464.580 | 29.48 | 8.76 | 105.46 | 107.68 | 74.00 | -33.68 | Peak |
| 2 | 2483.500 | 29.49 | 8.94 | 63.08 | 65.54 | 74.00 | 8.46 | Peak |
| 3 | 2500.000 | 29.50 | 8.89 | 53.83 | 56.22 | 74.00 | 17.78 | Peak |

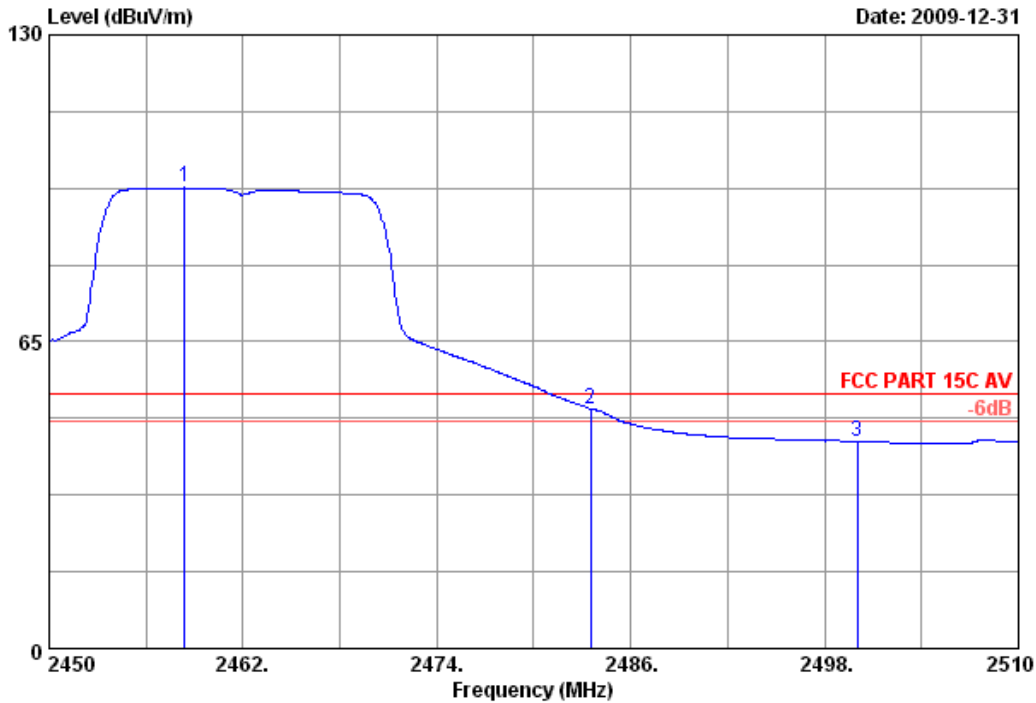
Remarks:

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: 6 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2458.400 | 29.48 | 8.48 | 95.68 | 97.62 | 54.00 | -43.62 | Average |
| 2 | 2483.500 | 29.49 | 8.94 | 48.32 | 50.78 | 54.00 | 3.22 | Average |
| 3 | 2500.000 | 29.50 | 8.89 | 41.41 | 43.80 | 54.00 | 10.20 | Average |

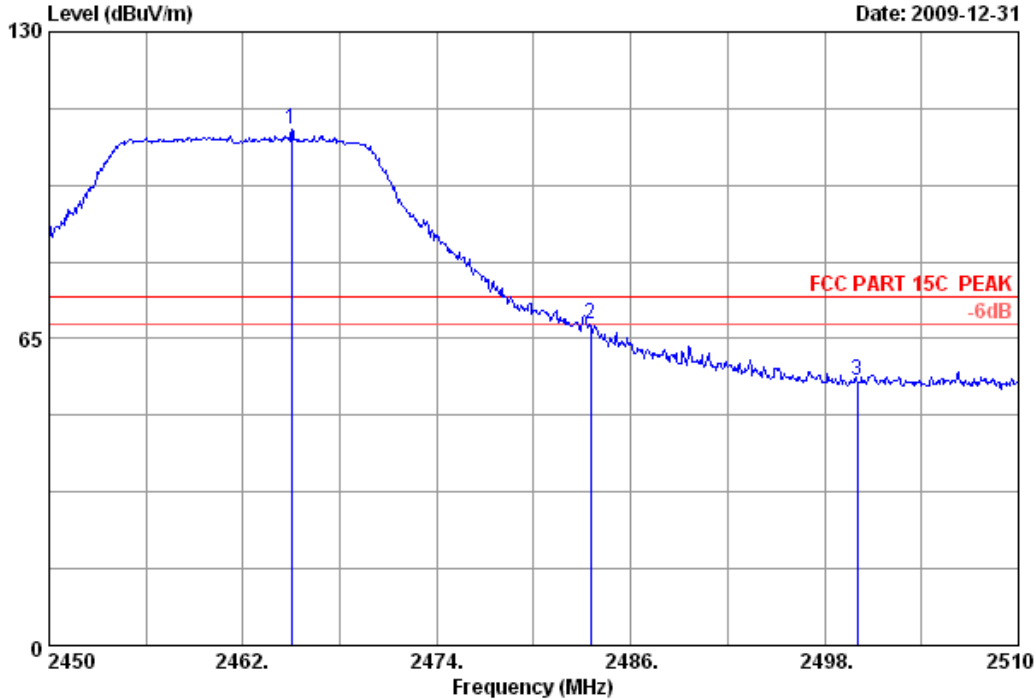
Remarks:

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: 7 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2465.000 | 29.48 | 8.76 | 107.02 | 109.24 | 74.00 | -35.24 | Peak |
| 2 | 2483.500 | 29.49 | 8.94 | 65.65 | 68.11 | 74.00 | 5.89 | Peak |
| 3 | 2500.000 | 29.50 | 8.89 | 53.61 | 56.00 | 74.00 | 18.00 | Peak |

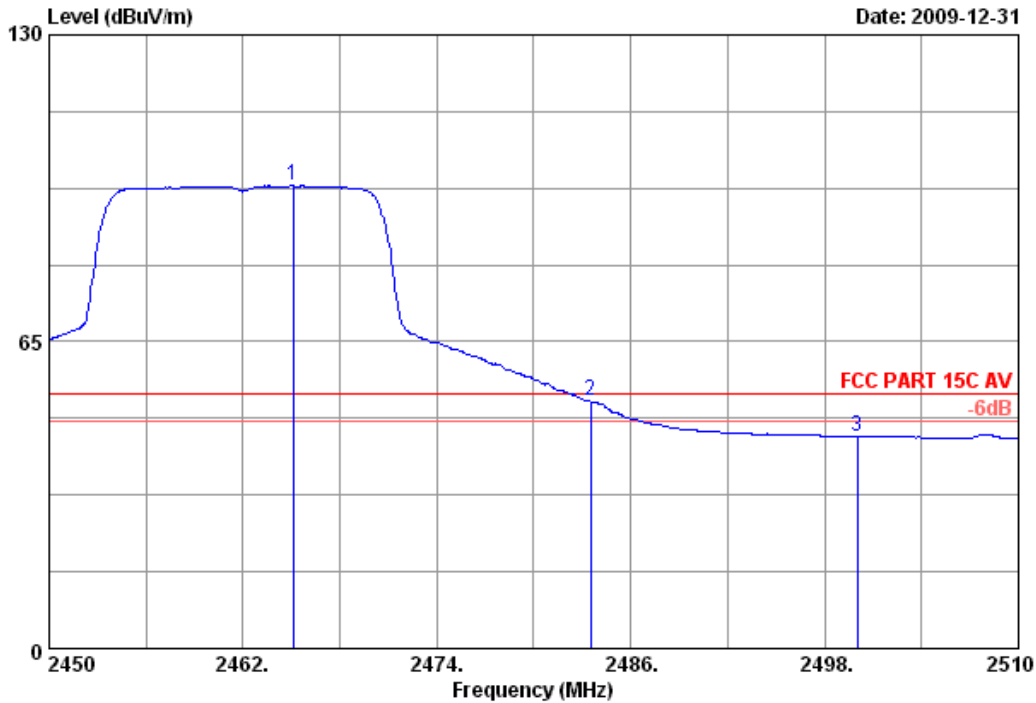
Remarks:

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: 8 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2465.120 | 29.48 | 8.76 | 95.76 | 97.98 | 54.00 | -43.98 | Average |
| 2 | 2483.500 | 29.49 | 8.94 | 49.88 | 52.34 | 54.00 | 1.66 | Average |
| 3 | 2500.000 | 29.50 | 8.89 | 42.46 | 44.85 | 54.00 | 9.15 | Average |

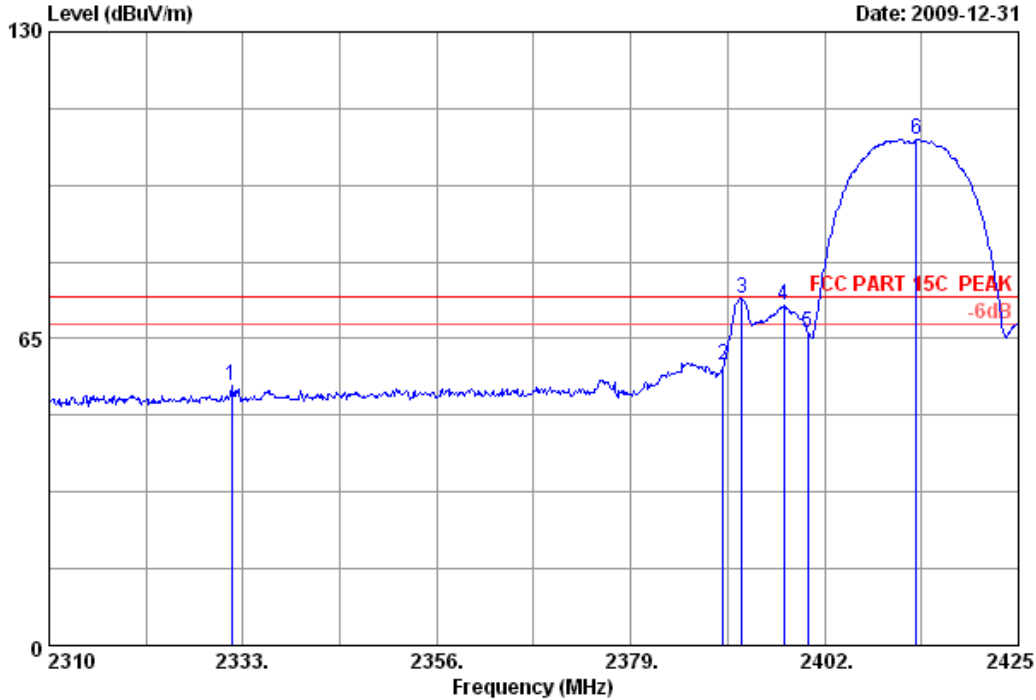
Remarks:

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: 9 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 9
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2331.620 | 29.40 | 8.64 | 53.07 | 55.05 | 74.00 | 18.95 | Peak |
| 2 | 2390.000 | 29.44 | 8.41 | 57.53 | 59.29 | 74.00 | 14.71 | Peak |
| 3 | 2392.225 | 29.44 | 8.41 | 71.65 | 73.41 | 74.00 | 0.59 | Peak |
| 4 | 2397.170 | 29.44 | 8.41 | 70.19 | 71.95 | 74.00 | 2.05 | Peak |
| 5 | 2400.000 | 29.44 | 8.60 | 64.45 | 66.40 | 74.00 | 7.60 | Peak |
| 6 | 2412.925 | 29.45 | 8.60 | 105.07 | 107.17 | 74.00 | -33.17 | Peak |

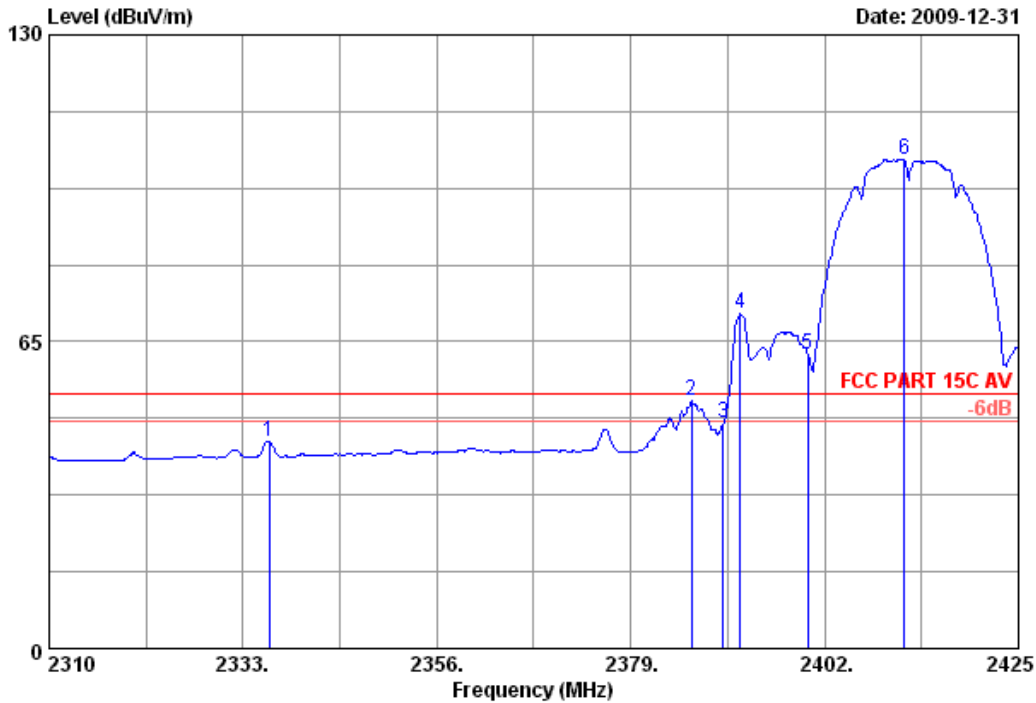
Remarks:

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: 10 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : WA1011C

| | Ant. | Cable | Emission | | | | | |
|----------------|------------------|--------------|-------------------|-------------------|--------------------|----------------|---------|--|
| Freq. (MHz) | Factor (dB/m) | Loss (dB) | Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark | |
| 1 | 29.41 | 8.64 | 41.94 | 44.00 | 54.00 | 10.00 | Average | |
| 2 | 29.44 | 8.41 | 50.66 | 52.42 | 54.00 | 1.58 | Average | |
| 3 | 29.44 | 8.41 | 45.96 | 47.72 | 54.00 | 6.28 | Average | |
| 4 | 29.44 | 8.41 | 69.07 | 70.83 | 54.00 | -16.83 | Average | |
| 5 | 29.44 | 8.60 | 60.21 | 62.16 | 54.00 | -8.16 | Average | |
| 6 | 29.45 | 8.60 | 101.58 | 103.68 | 54.00 | -49.68 | Average | |

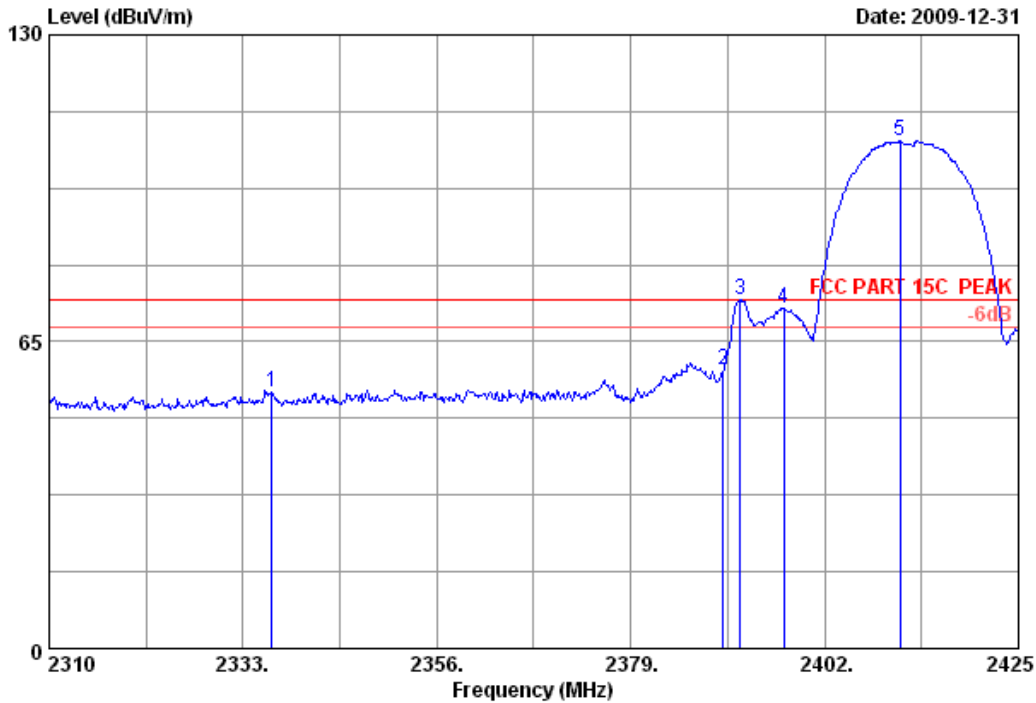
Remarks:

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: 11 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 11
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2336.450 | 29.41 | 8.64 | 52.30 | 54.36 | 74.00 | 19.64 | Peak |
| 2 | 2390.000 | 29.44 | 8.41 | 57.41 | 59.17 | 74.00 | 14.83 | Peak |
| 3 | 2391.995 | 29.44 | 8.41 | 72.15 | 73.91 | 74.00 | 0.09 | Peak |
| 4 | 2397.170 | 29.44 | 8.41 | 70.29 | 72.05 | 74.00 | 1.95 | Peak |
| 5 | 2410.970 | 29.45 | 8.60 | 105.36 | 107.46 | 74.00 | -33.46 | Peak |

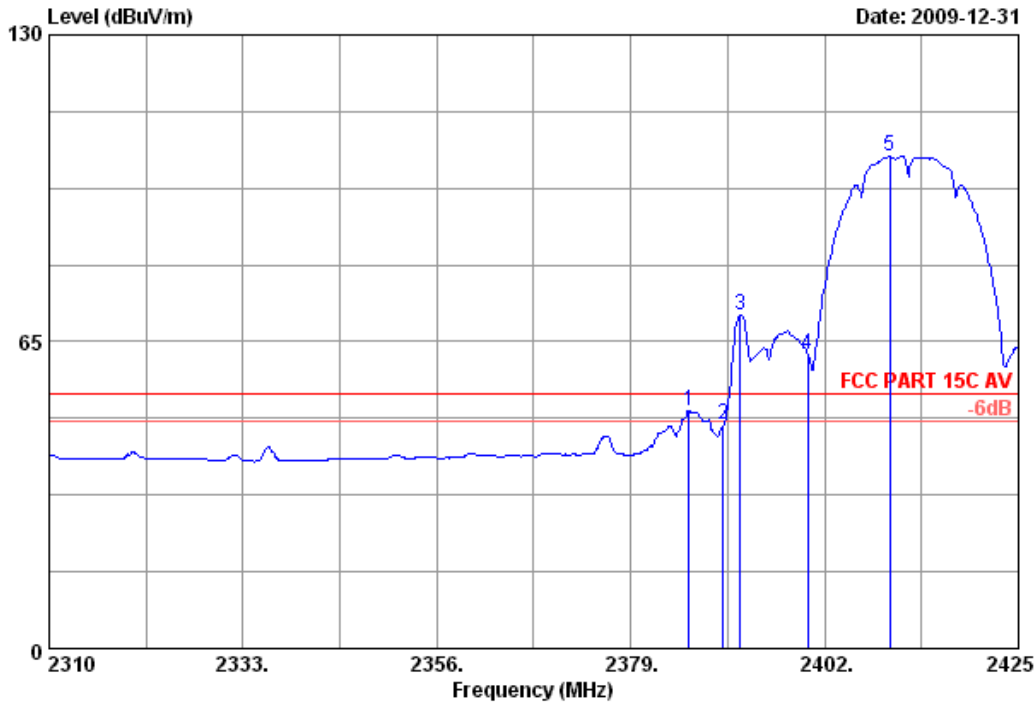
Remarks:

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: 12 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2385.900 | 29.44 | 8.41 | 48.72 | 50.48 | 54.00 | 3.52 | Average |
| 2 | 2390.000 | 29.44 | 8.41 | 45.78 | 47.54 | 54.00 | 6.46 | Average |
| 3 | 2391.995 | 29.44 | 8.41 | 68.93 | 70.69 | 54.00 | -16.69 | Average |
| 4 | 2400.000 | 29.44 | 8.60 | 60.32 | 62.27 | 54.00 | -8.27 | Average |
| 5 | 2409.705 | 29.45 | 8.60 | 102.18 | 104.28 | 54.00 | -50.28 | Average |

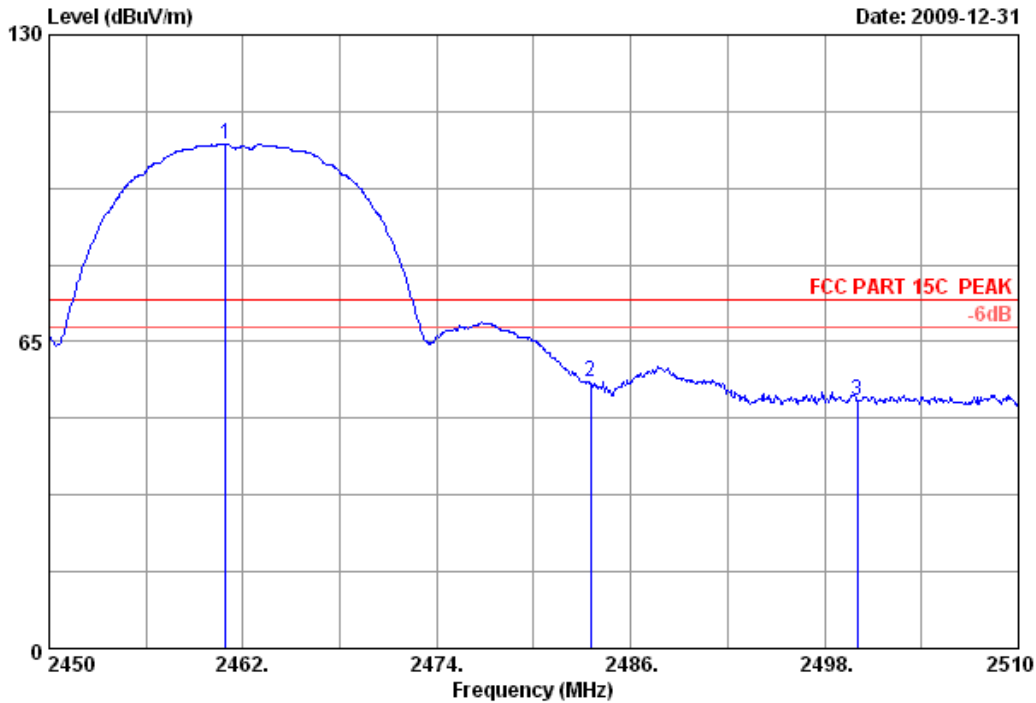
Remarks:

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: 13 File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.920 | 29.48 | 8.76 | 104.61 | 106.83 | 74.00 | -32.83 | Peak |
| 2 | 2483.500 | 29.49 | 8.94 | 53.99 | 56.45 | 74.00 | 17.55 | Peak |
| 3 | 2500.000 | 29.50 | 8.89 | 50.22 | 52.61 | 74.00 | 21.39 | Peak |

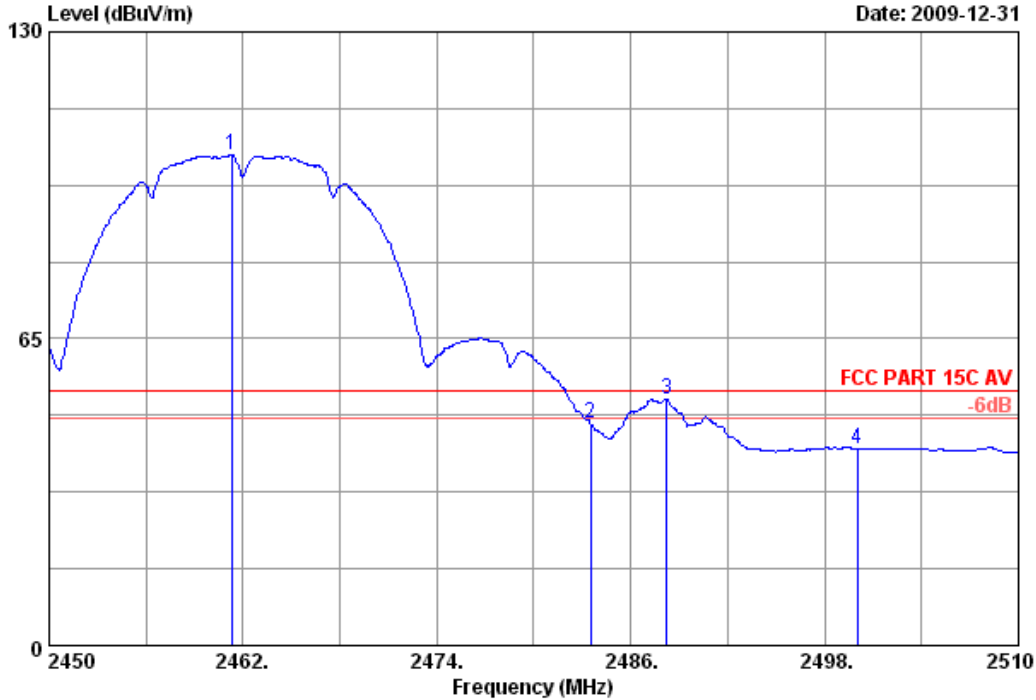
Remarks:

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: 14 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2461.280 | 29.48 | 8.76 | 101.66 | 103.88 | 54.00 | -49.88 | Average |
| 2 | 2483.500 | 29.49 | 8.94 | 44.66 | 47.12 | 54.00 | 6.88 | Average |
| 3 | 2488.220 | 29.50 | 8.94 | 49.84 | 52.28 | 54.00 | 1.72 | Average |
| 4 | 2500.000 | 29.50 | 8.89 | 39.37 | 41.76 | 54.00 | 12.24 | Average |

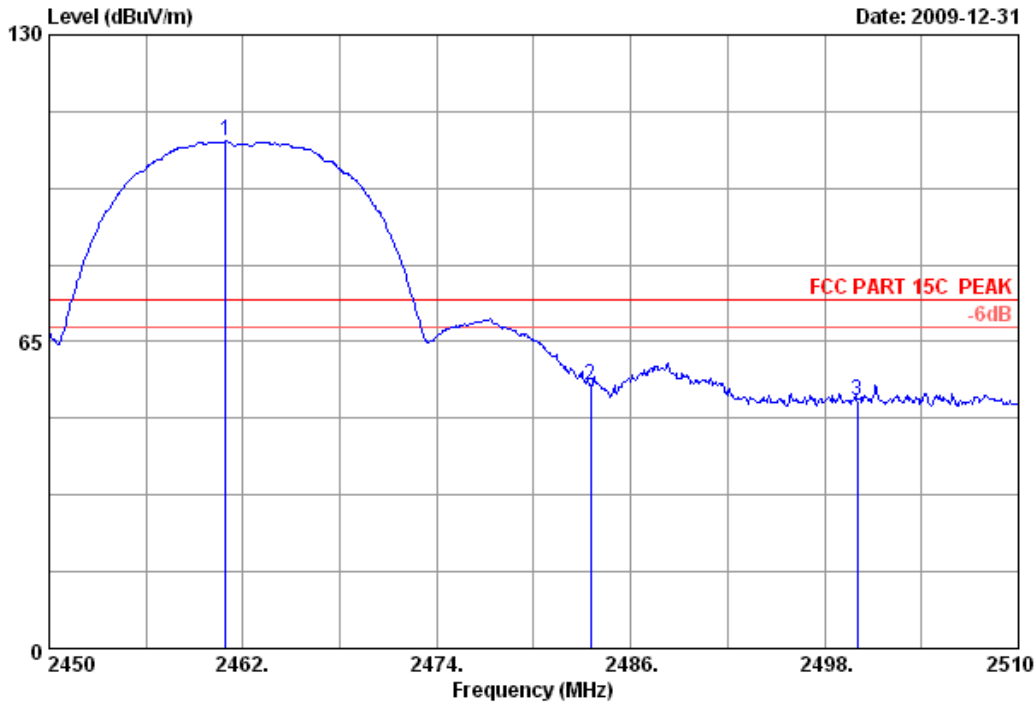
Remarks:

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: 15 File: E:\2009 report data\A\ALTAI\备件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 15
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2460.920 | 29.48 | 8.76 | 105.20 | 107.42 | 74.00 | -33.42 | Peak |
| 2 | 2483.500 | 29.49 | 8.94 | 53.47 | 55.93 | 74.00 | 18.07 | Peak |
| 3 | 2500.000 | 29.50 | 8.89 | 50.11 | 52.50 | 74.00 | 21.50 | Peak |

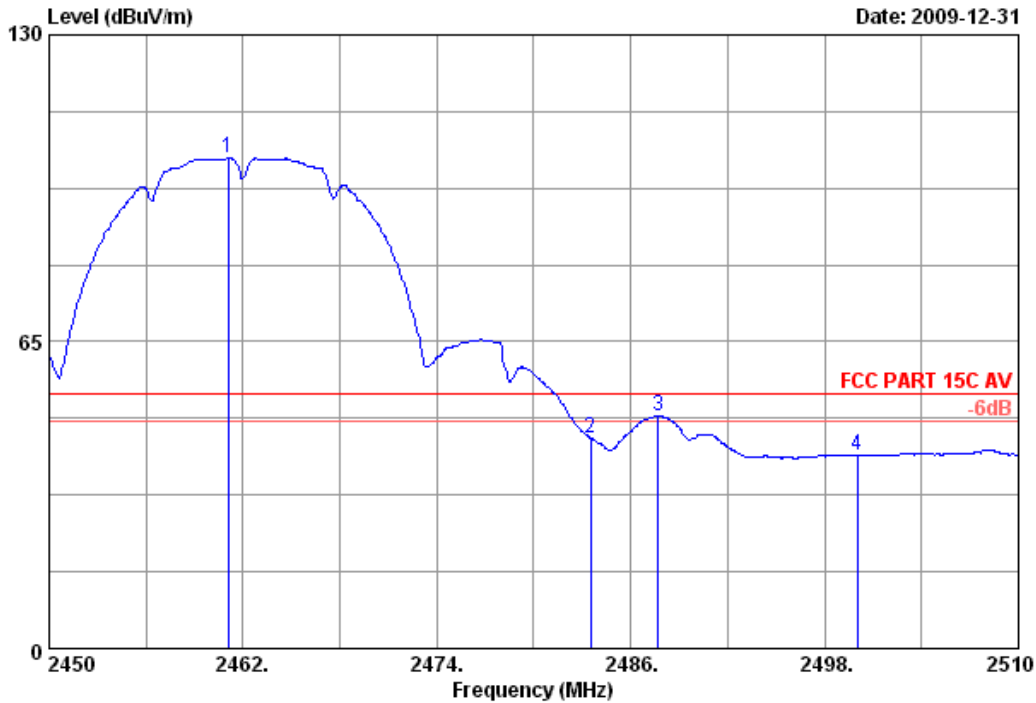
Remarks:

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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Postcode:518057

Data: 16 File: E:\2009 report data\A\ALTAI\复件 ACS9QH321.EM6 (71)



Site no. : 10m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : C1 WiFi CPE/AP
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : WA1011C

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2461.100 | 29.48 | 8.76 | 101.78 | 104.00 | 54.00 | -50.00 | Average |
| 2 | 2483.500 | 29.49 | 8.94 | 42.11 | 44.57 | 54.00 | 9.43 | Average |
| 3 | 2487.680 | 29.50 | 8.94 | 46.91 | 49.35 | 54.00 | 4.65 | Average |
| 4 | 2500.000 | 29.50 | 8.89 | 38.51 | 40.90 | 54.00 | 13.10 | Average |

Remarks:

1. Emission Level= Antenna Factor + Cable Loss + 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.08, 09 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1 Year |

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

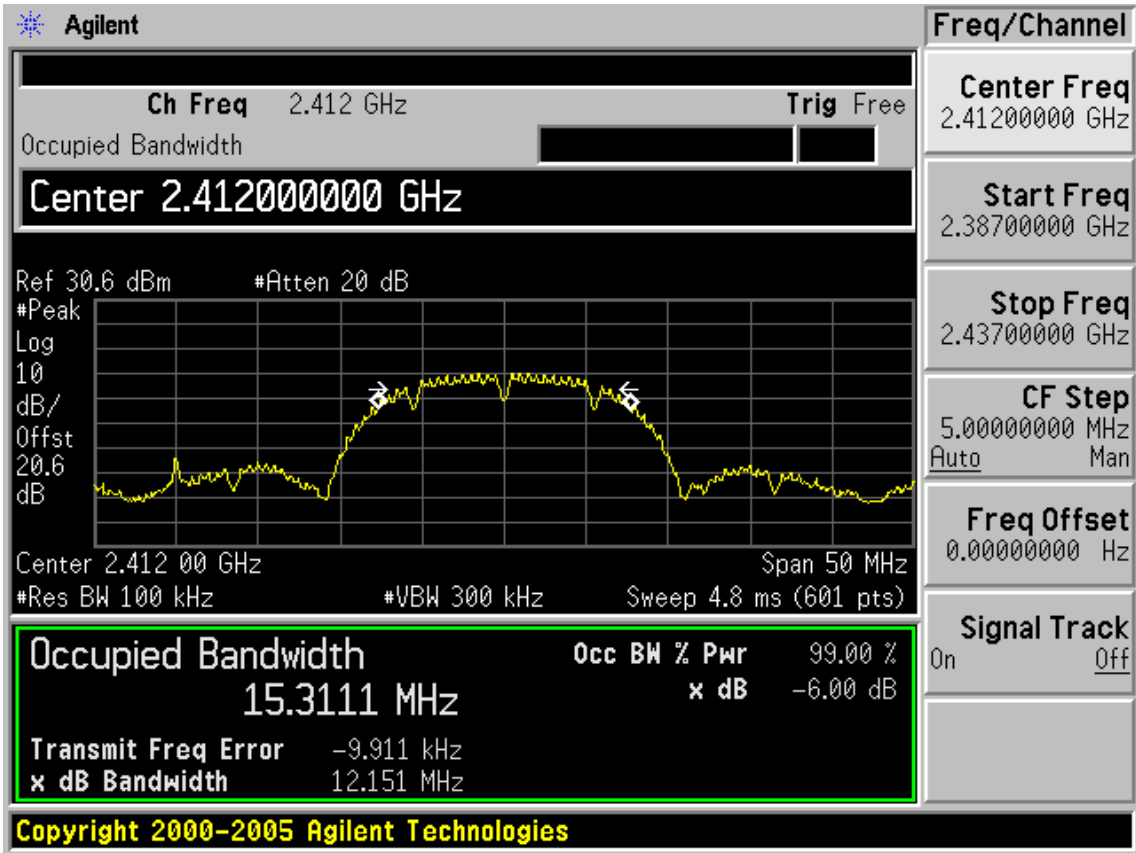
| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|----|---------------------|-------|-------------|
| 1 | 12.151 | >500 | PASS |
| 6 | 12.140 | >500 | PASS |
| 11 | 12.134 | >500 | PASS |

Test Mode: IEEE 802.11g TX

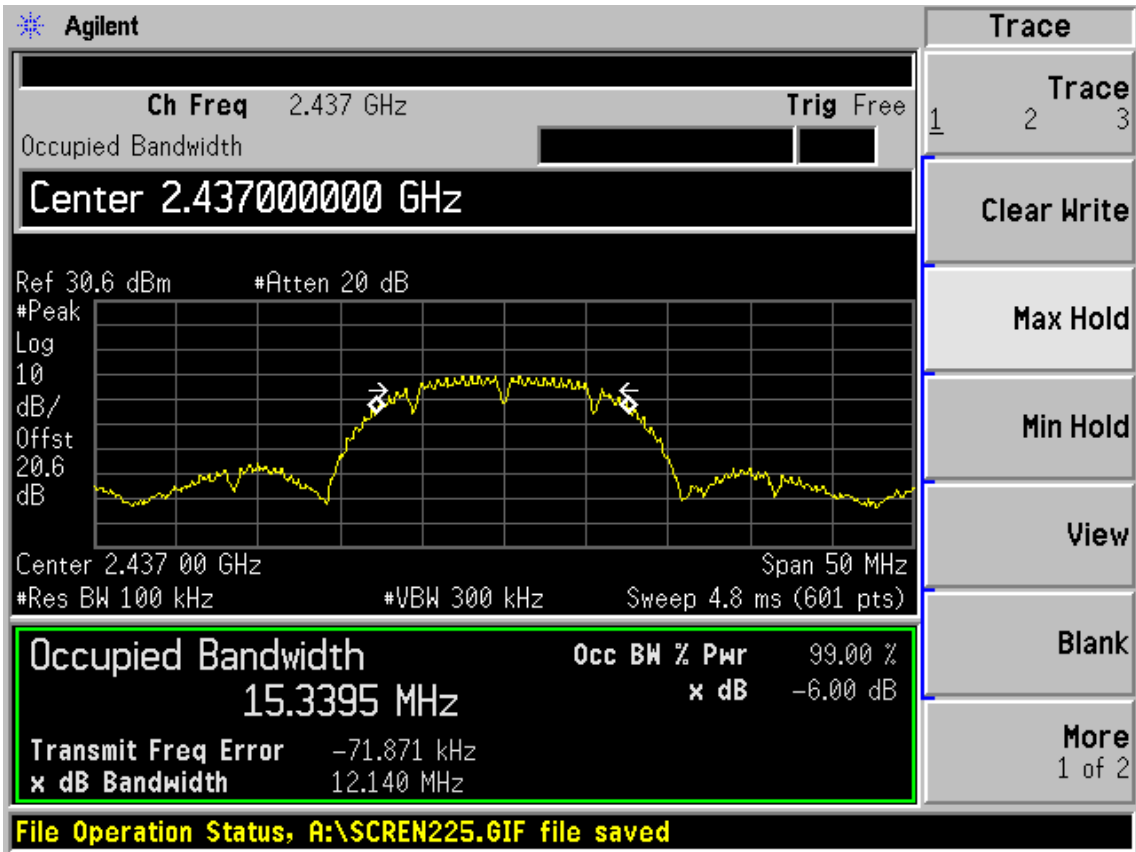
| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|----|---------------------|-------|-------------|
| 1 | 16.453 | >500 | PASS |
| 6 | 16.514 | >500 | PASS |
| 11 | 16.475 | >500 | PASS |

Test Mode: IEEE 802.11b TX

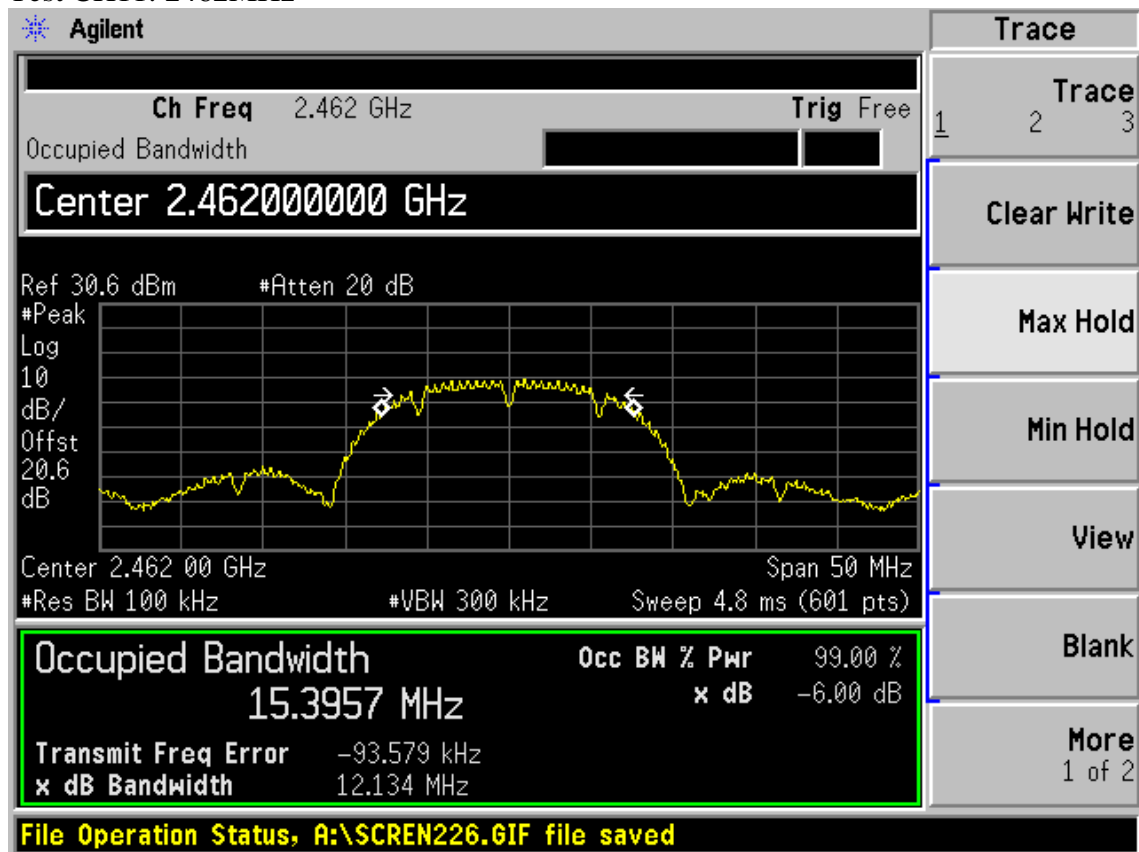
Test CH1: 2412MHz



Test CH6: 2437MHz

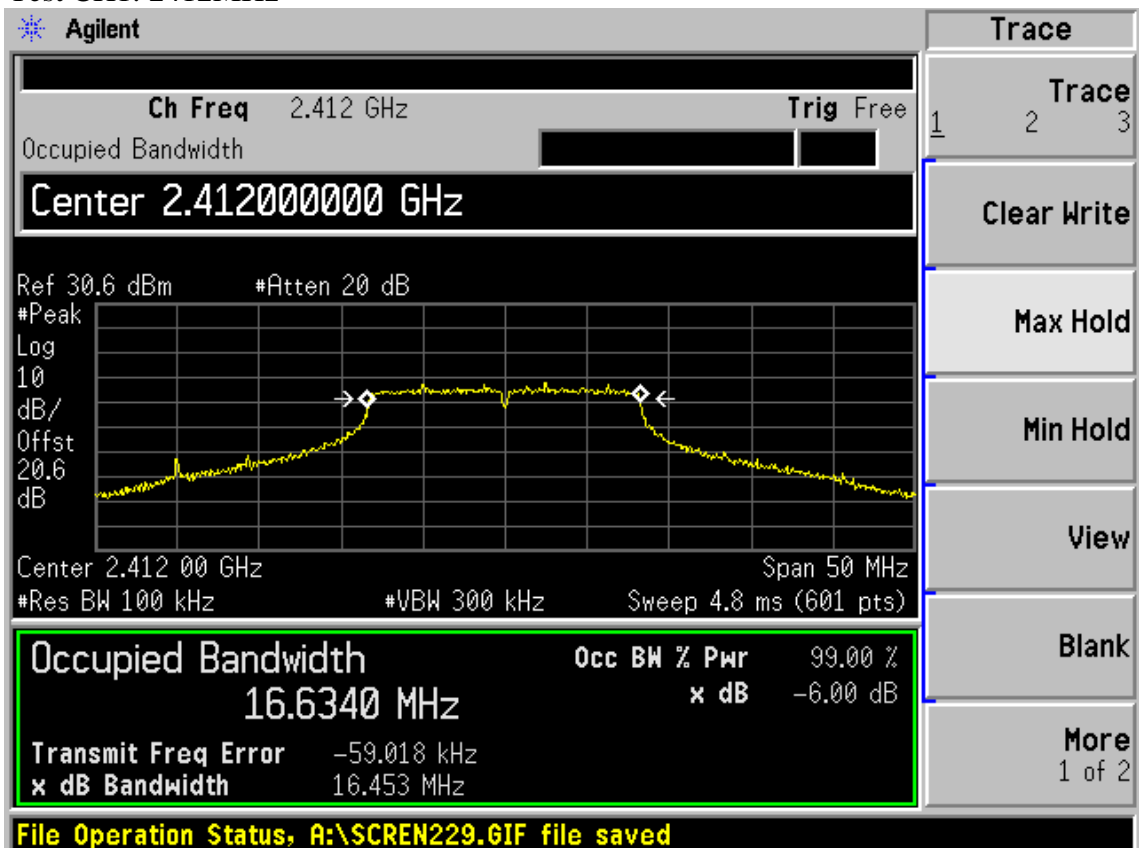


Test CH1: 2462MHz

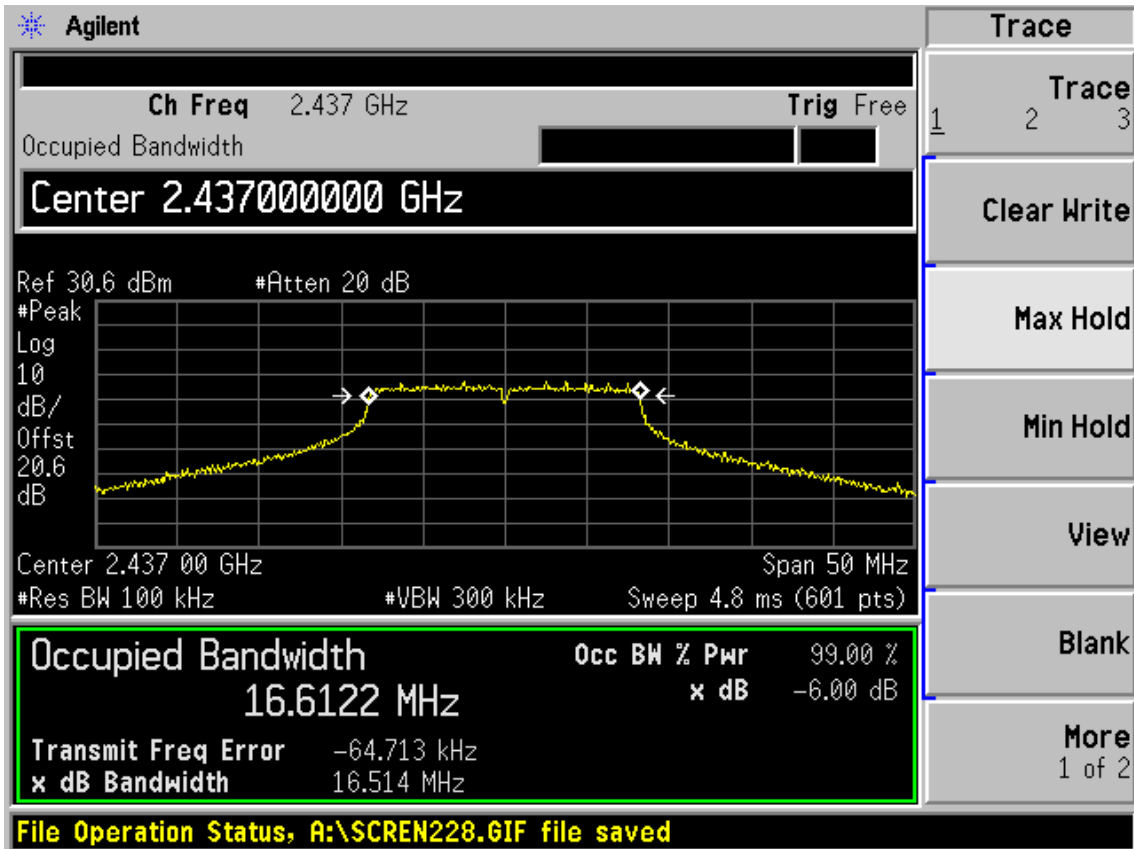


Test Mode: IEEE 802.11g TX

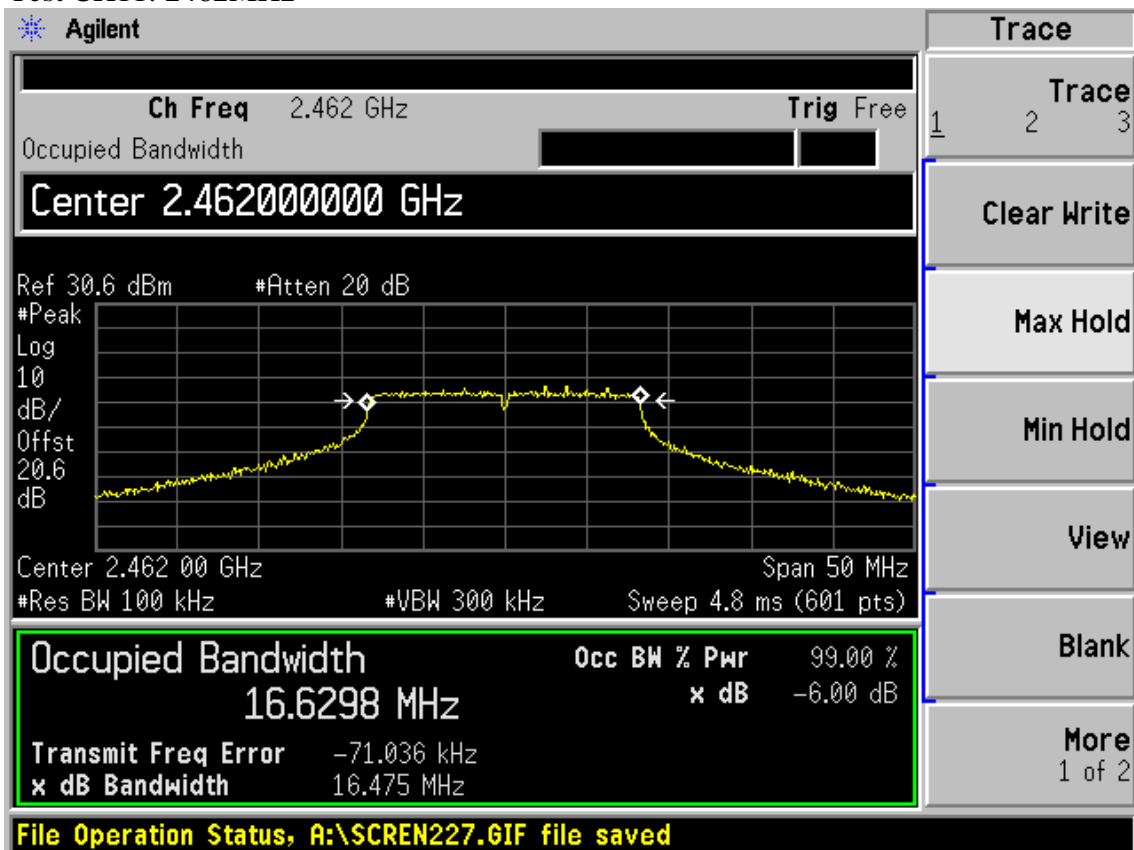
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------|--------------|-----------------|------------|------------|---------------|
| 1. | Power meter | Anritsu | ML2487A | 6K00002472 | Oct.20.09 | 1 Year |
| 2 | Power sensor | Anritsu | MA2491A | 0033005 | Oct.20.09 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1 Year |

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)

If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3. Test Procedure

Use power output option 1 method of KDB 558074, the transmitter output was connection to a power meter by suitable attenuation, read out the peak output power of device.

8.4. Test Results

| EUT: C1 WiFi CPE/AP M/N: WA1011C | | | | |
|--|--------------------------------------|--------------------|------------------------|----------------------|
| Power: DC 12V From Adapter input AC 120V/60Hz | | | | |
| Data Rate: 11b 1Mbps ; 11g 6Mbps ; (Note 1) | | | | |
| Ambient Temperature: 26°C | | | Relative Humidity: 62% | |
| Test date: 2009/12/23 | | Test site: RF site | | Tested by: Paul Tian |
| Test CH | CH1 2412MHz CH6 2437MHz CH11 2462MHz | | | |
| Mode | CH | PK (dBm) | Limit (dBm) | Conclusion |
| 11b | CH1 | 18.68 | 26.00 | PASS |
| | CH6 | 23.09 | 26.00 | PASS |
| | CH11 | 18.26 | 26.00 | PASS |
| 11g | CH1 | 20.39 | 26.00 | PASS |
| | CH6 | 24.69 | 26.00 | PASS |
| | CH11 | 20.84 | 26.00 | PASS |
| Note1: According Exploratory test, These data rate have the maximum output power | | | | |
| Note2: The antenna Gain of EUT is 10dBi, so the limit should be 30dBm-(10dB-6dB)=26dBm | | | | |

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.08, 09 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 09 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 09 | 1 Year |

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

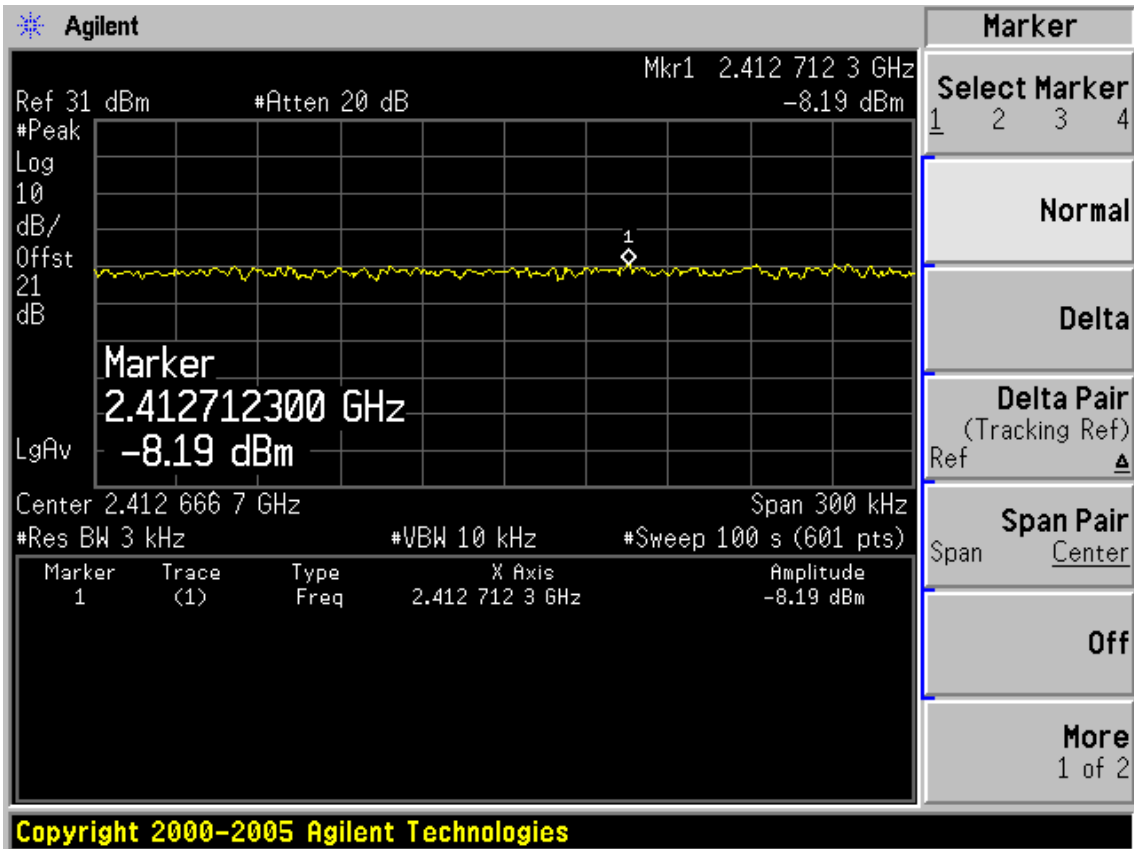
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 3kHz RBW and 30kHz VBW, sweep time=span/3kHz.

9.4.Test Results

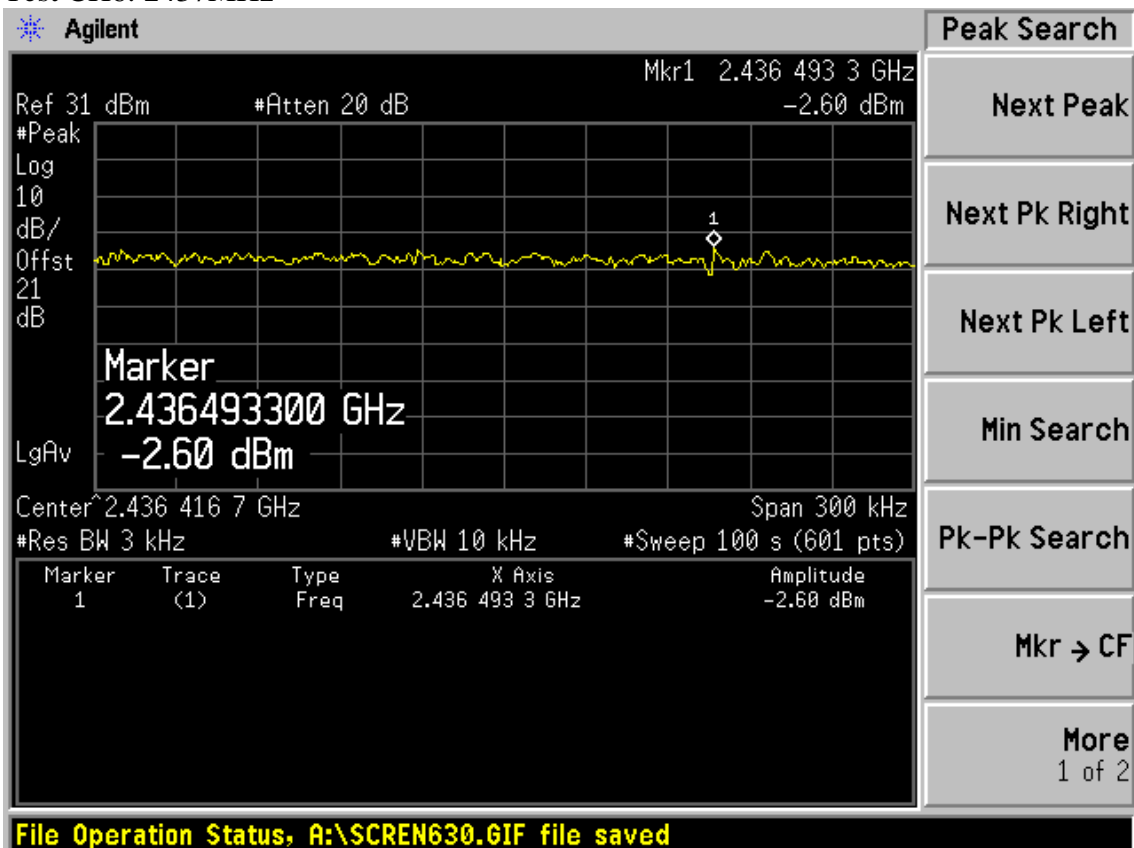
| EUT:C1 WiFi CPE/AP | | M/N: WA1011C | | |
|---|--------------------------------------|------------------------|-------------|----------------------|
| Power: DC 12V From Adapter input AC 120V/60Hz | | | | |
| Data Rate:11b: 1Mbps ; 11g : 6Mbps (Note 1) | | | | |
| Ambient Temperature:25°C | | Relative Humidity: 62% | | |
| Test date:2009/12/23 | | Test site: RF site | | Tested By: Paul Tian |
| Test CH | CH1:2412MHz CH6:2437MHz CH11:2462MHz | | | |
| Mode | CH | Result (dBm) | Limit (dBm) | Conclusion |
| 11b | CH1 | -8.19 | 8.00 | PASS |
| | CH6 | -2.60 | 8.00 | PASS |
| | CH11 | -9.35 | 8.00 | PASS |
| 11g | CH1 | -12.98 | 8.00 | PASS |
| | CH6 | -8.05 | 8.00 | PASS |
| | CH11 | -12.13 | 8.00 | PASS |
| Note1:According Exploratory test, These data rate have the maximum output power | | | | |

Test Mode: IEEE 802.11b TX

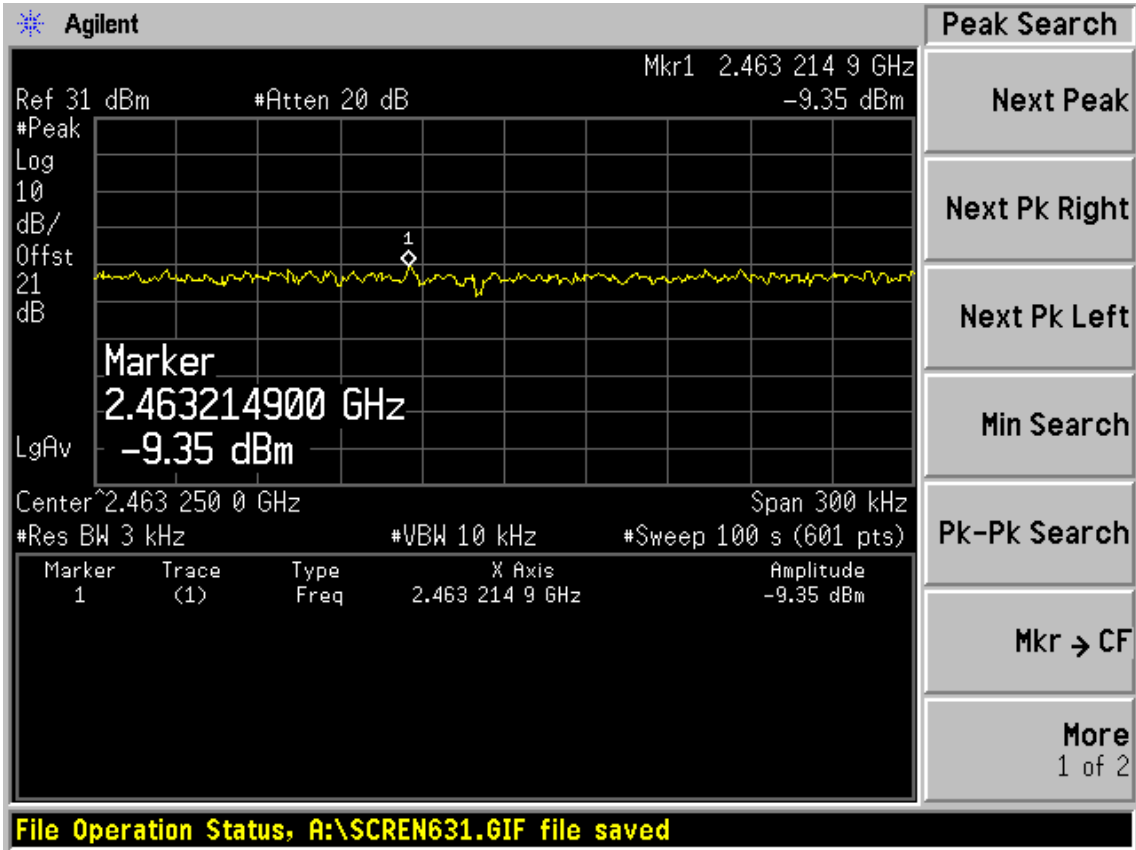
Test CH1: 2412MHz



Test CH6: 2437MHz

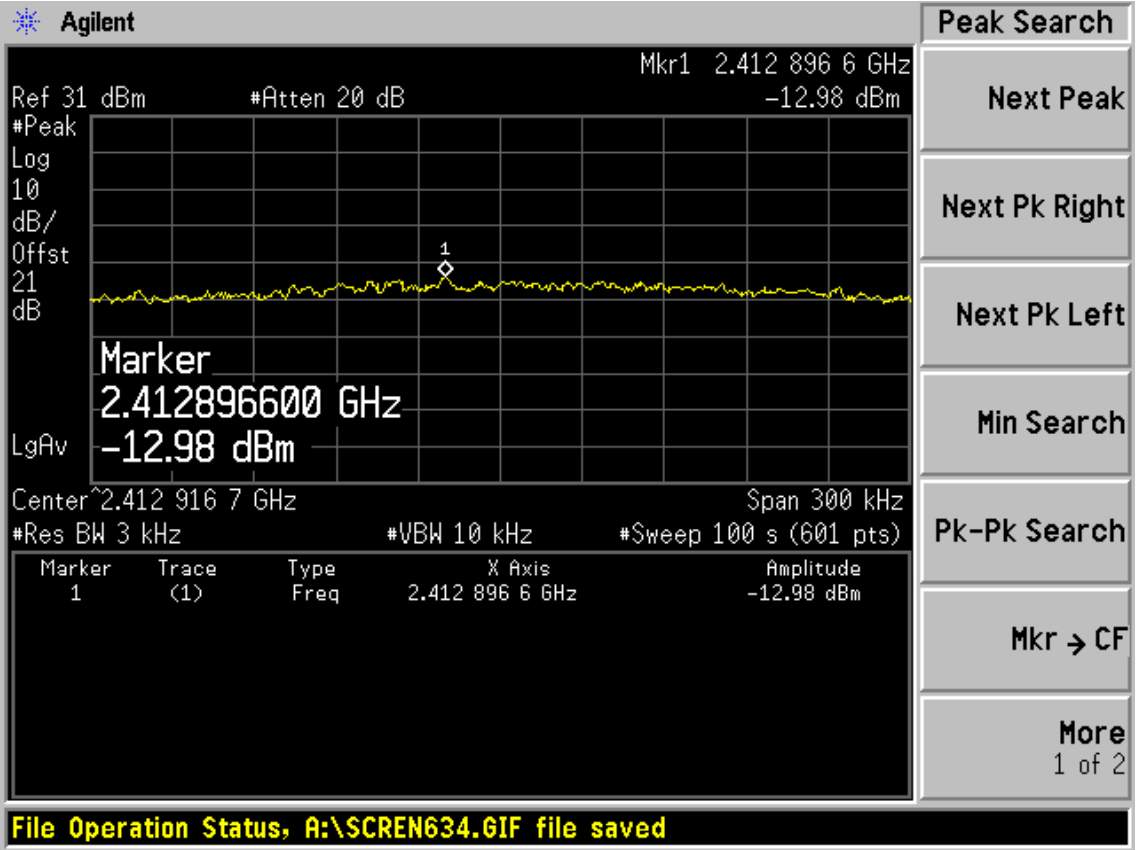


Test CH1: 2462MHz

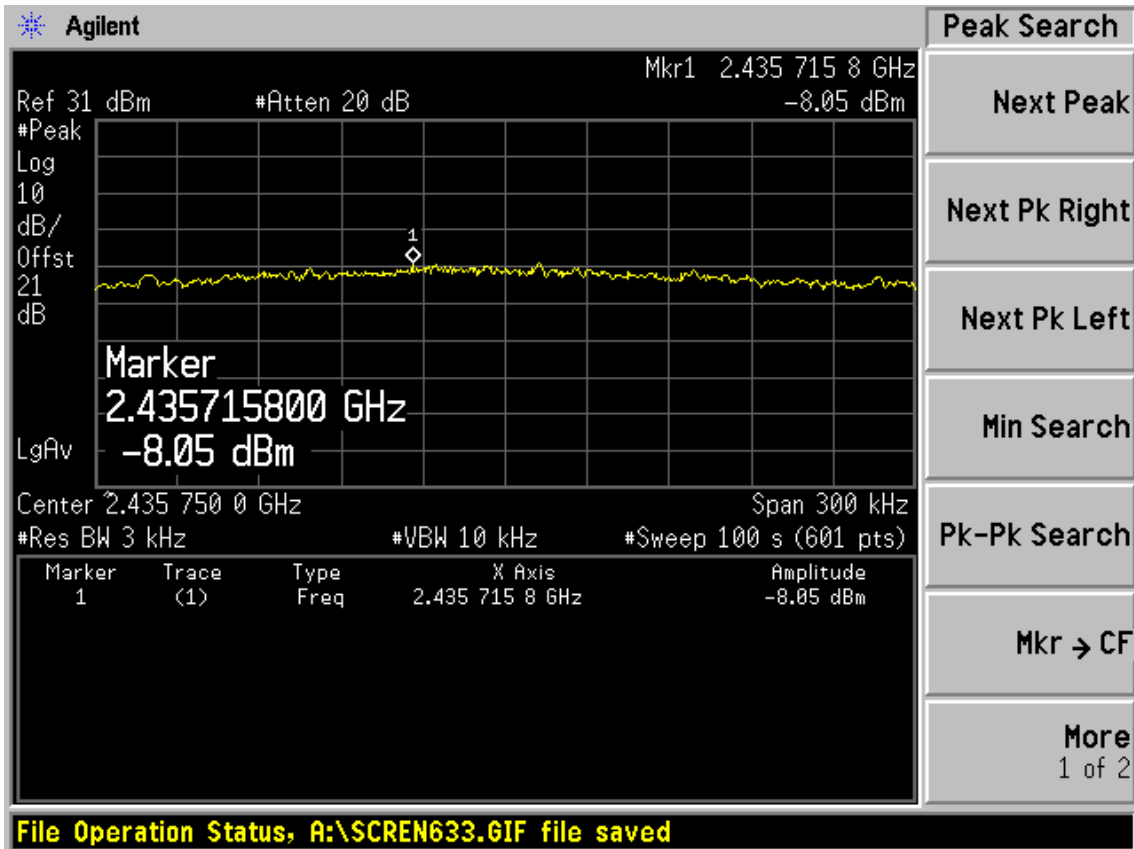


Test Mode: IEEE 802.11g TX

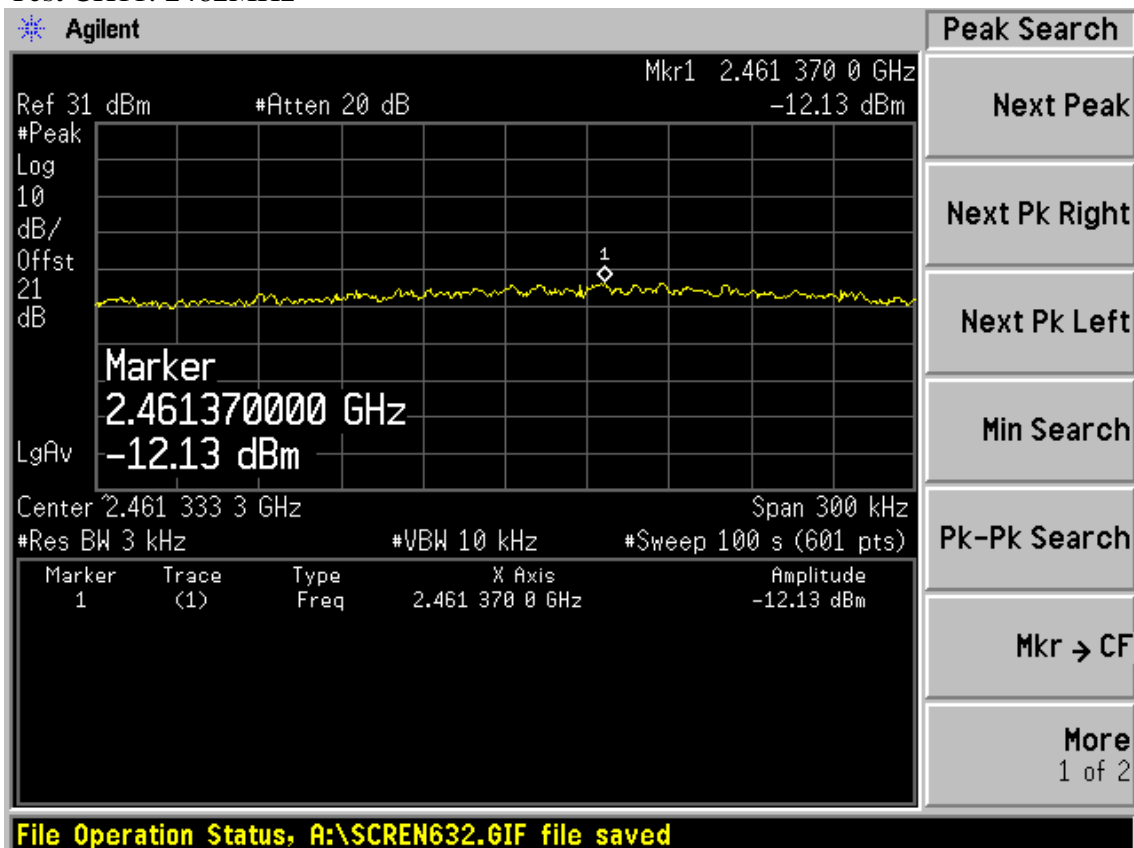
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



10. 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 PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the antenna is 10dBi.

11.MPE ESTIMATION

11.1.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

11.2.Estimation Result

| Mode | CH | Frequency (MHz) | PK Output power (dBm) | Output power (mW) | antenna Gain (dBi) | antenna Gain(linear) | MPE |
|------|----|-----------------|-----------------------|-------------------|--------------------|----------------------|--------|
| 11b | 1 | 2412 | 18.68 | 73.79 | 10 | 10.00 | 0.1469 |
| | 6 | 2437 | 23.09 | 203.70 | 10 | 10.00 | 0.4055 |
| | 11 | 2462 | 18.26 | 66.99 | 10 | 10.00 | 0.1333 |
| 11g | 1 | 2412 | 20.39 | 109.40 | 10 | 10.00 | 0.2177 |
| | 6 | 2437 | 24.69 | 294.44 | 10 | 10.00 | 0.5861 |
| | 11 | 2462 | 20.84 | 121.34 | 10 | 10.00 | 0.2415 |

Note: The estimation distance is 20cm

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]