

APPLICATION FOR CERTIFICATION

On Behalf of

TP-LINK Technologies Co., Ltd.

2.4GHz High Power Wireless Outdoor CPE

Model Number: TL-WA5210G

FCC ID: TE7WA5210G

Prepared for : TP-LINK Technologies Co., Ltd.
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Taoyuan Street, Nanshan District, Shenzhen, P.R.C.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Report Number : ACS-F10154-1

Date of Test : May.31~Oct.25, 2010

Date of Report : Oct.28, 2010

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TEST REPORT CERTIFICATION

Applicant : TP-LINK Technologies Co., Ltd.
 Manufacturer : TP-LINK Technologies Co., Ltd.
 EUT Description : 2.4GHz High Power Wireless Outdoor CPE
 FCC ID : TE7WA5210G
 (A)MODEL NO. : TL-WA5210G
 (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 : May.31~ Oct.25, 2010

Prepared by :

Annie Wu

Annie Wu/ Superviosr

Reviewer :

Jamy Yu

Jamy Yu / Supervisor

Approved & Authorized Signer :



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

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | |
|-----------------------|---|
| Product Name | : 2.4GHz High Power Wireless Outdoor CPE |
| Model Number | : TL-WA5210G |
| FCC ID | : TE7WA5210G |
| Operation Frequency | : IEEE 802.11b/g: 2412MHz---2462MHz |
| Channel Number | : IEEE 802.11b/g: 11Channels |
| Modulation Technology | : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) |
| Antenna and Gain | : Internal integrated patch antenna, 12dBi External antenna, 9dBi |
| Applicant | : TP-LINK Technologies Co., Ltd. 1-6F, Building 2, Pingshandayuan Industrial, South Zone, Taoyuan Street, Nanshan District, Shenzhen, P.R.C. |
| Manufacturer | : TP-LINK Technologies Co., Ltd. 1-6F, Building 2, Pingshandayuan Industrial, South Zone, Taoyuan Street, Nanshan District, Shenzhen, P.R.C. |
| Power Adapter | : Manufacturer: LEADER ELECTRONICS INC. M/N: MT12-4120100-A1 Cable: Unshielded, Undetachable, 1.5m |
| Date of Test | : May.31~Oct.25, 2010 |
| Date of Receipt | : May.28, 2010 |
| Sample Type | : Prototype production |

2.2. Test information

The test software “art.exe” was used to control EUT work in Continuous TX(100% duty cycle) 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 | 11 | Low :CH1 | 2412 |
| | 11 | Middle: CH6 | 2437 |
| | 11 | High: CH11 | 2462 |
| IEEE 802.11g | 12 | Low :CH1 | 2412 |
| | 12 | Middle: CH6 | 2437 |
| | 12 | High: CH11 | 2462 |
| <p>Note1: According to exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.</p> <p>Note 2: This device have three types of antenna, external antenna, Internal integrated patch antenna with Horizontal and Vertical polarization. For radiated emissions from 30MHz to 1GHz , according exploratory test when test with external antenna will have worse emissions, so the final test were performed with external antenna, for radiated emissions from 1GHz to 25GHz were performed with each type of antenna, for all other conducted test were performed with each antenna type's connector.</p> | | | |

2.3. Tested Supporting System Details

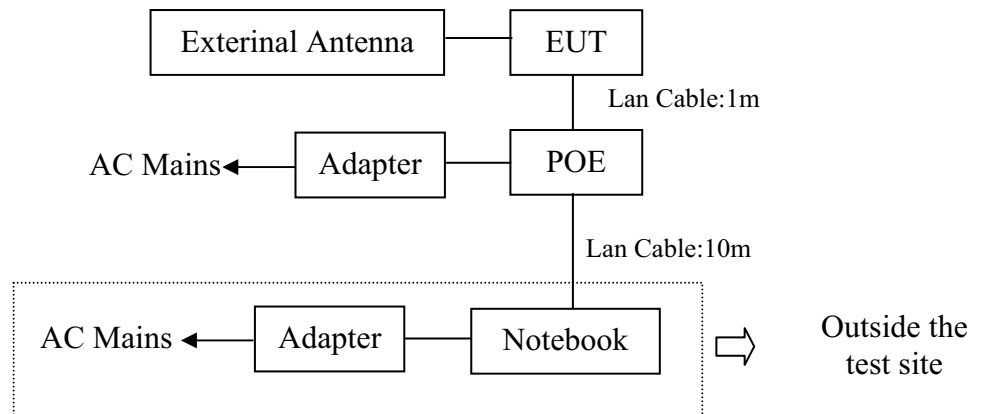
2.3.1. Notebook

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)

2.3.2. Cables

LAN Cable #1 : Unshielded, Detachable 1m
 LAN Cable #2 : Unshielded, Detachable 10m

2.4. Block Diagram of Test Setup



(EUT: 2.4GHz High Power Wireless Outdoor CPE)

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 | : | Dec. 30, 2009 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, 2010 |

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 Radiated Spurious Emission test in RF chamber | 2.70 dB(Bilog antenna 30M~1000MHz) |
| | 2.27 dB(Horn antenna 1000M~25000MHz) |
| Uncertainty for Conduction Spurious emission test | 2.12 dB |
| Uncertainty for Output power test | 0.97 dB |
| Uncertainty for Power density test | 2.21 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 | ESHS10 | 838693/001 | Dec.18, 09 | 1 Year |
| 2. | L.I.S.N.#1 | Rohde & Schwarz | ESH2-Z5 | 834066/011 | Mar.30, 10 | 1 Year |
| 3. | Terminator | Hubersuhner | 50Ω | No. 1 | May.08, 10 | 1 Year |
| 4. | RF Cable | Fujikura | 3D-2W | LISN Cable 1# | May.08, 10 | 1Year |
| 5. | Coaxial Switch | Anritsu | MP59B | M55367 | May.08, 10 | 1 Year |
| 6. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100341 | May.08, 10 | 1 Year |

3.2. 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.

3.3. 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.

3.3.1. 2.4GHz High Power Wireless Outdoor CPE (EUT)

Model Number : TL-WA5210G
Serial Number : N/A

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

3.4. Operating Condition of EUT

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

3.4.2. Turned on the power of all equipment.

3.4.3. Notebook run test software to control EUT work in Tx mode.

3.5. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Adapter connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). 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 ESHS10) is set at 10kHz.

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

The test result are reported on Section 3.6.,

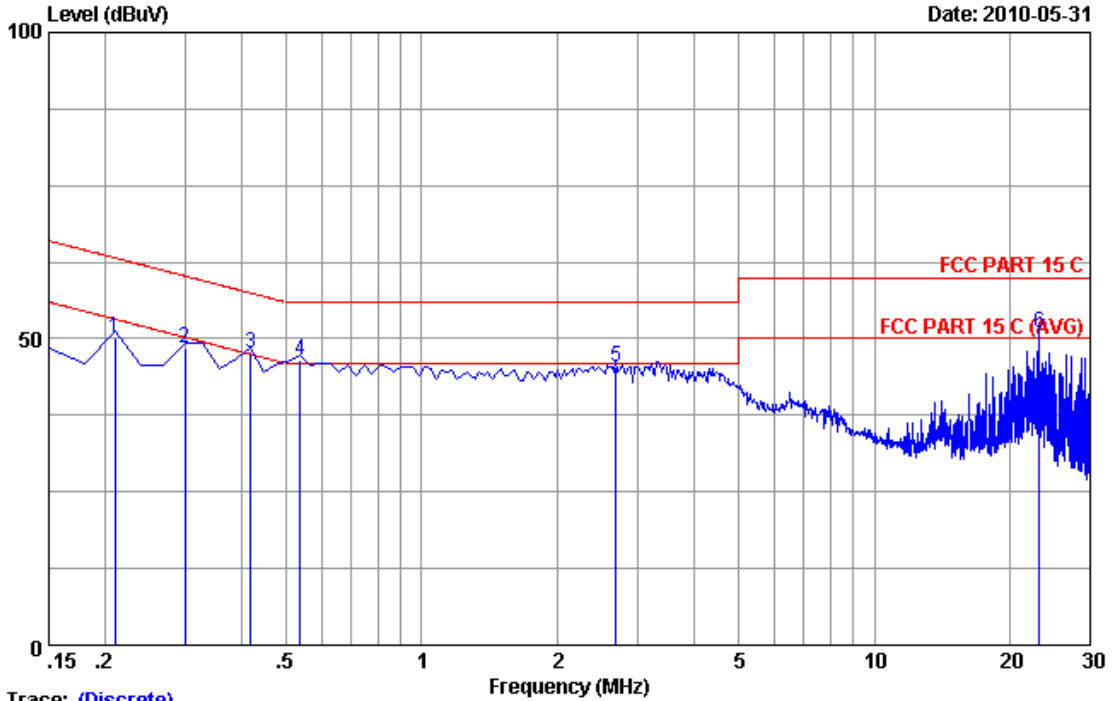
3.6. Power Line Conducted Emission Test Results

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



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Data: 2 File: D:\DATA\2010 REPORT\TP-LINK\ACS10Q0992.EM6 (5)



Trace: (Discrete)
 Site no :Audix No.1 Conduction Data no :2
 Dis./Ant. **: 2009 ESH2-Z5 LINE
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny-lu
 EUT :2.4GHz High Power Wireless Outdoor CPE
 Power Rating :DC 12V From Adapter input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N :TL-WA5210G

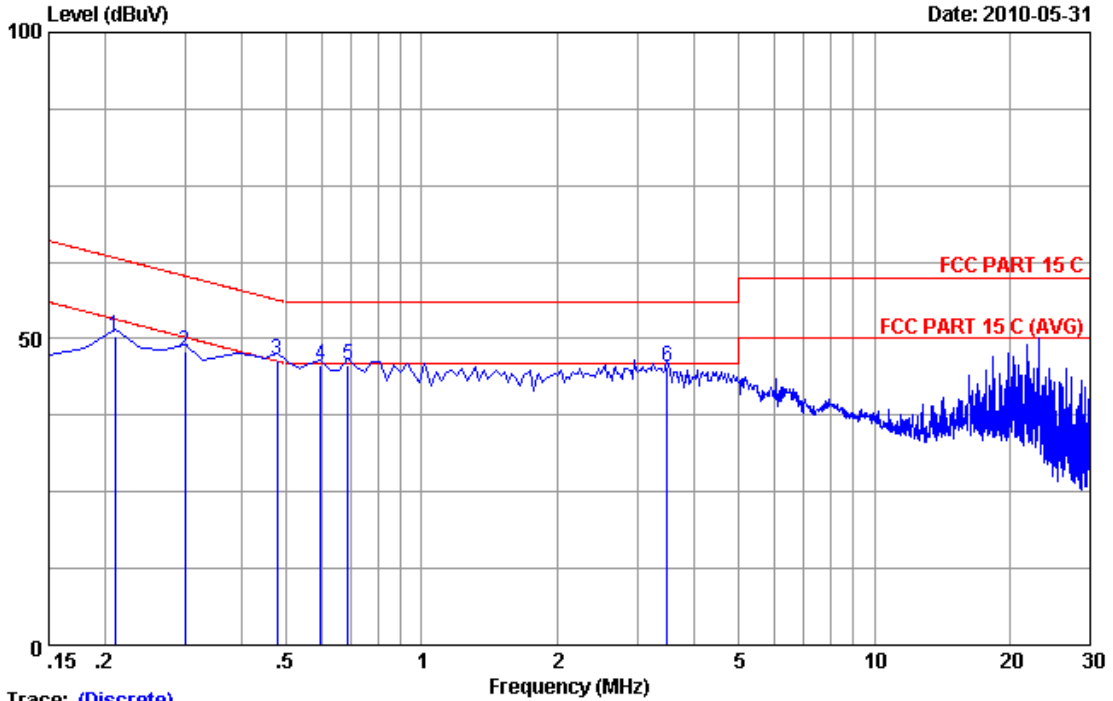
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.20970 | 0.18 | 9.88 | 40.12 | 50.18 | 63.22 | 13.04 | QP |
| 2 | 0.29925 | 0.18 | 9.88 | 38.35 | 48.41 | 60.26 | 11.85 | QP |
| 3 | 0.41865 | 0.18 | 9.89 | 37.44 | 47.51 | 57.47 | 9.96 | QP |
| 4 | 0.53805 | 0.18 | 9.89 | 36.41 | 46.48 | 56.00 | 9.52 | QP |
| 5 | 2.687 | 0.23 | 9.90 | 35.37 | 45.50 | 56.00 | 10.50 | QP |
| 6 | 23.135 | 0.65 | 10.04 | 40.27 | 50.96 | 60.00 | 9.04 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+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: 1 File: D:\DATA\2010 REPORT\TP-LINK\ACS10Q0992.EM6 (5)



Trace: (Discrete)
 Site no :Audix No.1 Conduction Data no :1
 Dis./Ant. **: 2009 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23'C Humi:54% Engineer :Sunny-lu
 EUT :2.4GHz High Power Wireless Outdoor CPE
 Power Rating :DC 12V From Adapter input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N :TL-WA5210G

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.20970 | 0.20 | 9.88 | 40.39 | 50.47 | 63.22 | 12.75 | QP |
| 2 | 0.29925 | 0.20 | 9.88 | 37.87 | 47.95 | 60.26 | 12.31 | QP |
| 3 | 0.47835 | 0.20 | 9.89 | 36.48 | 46.57 | 56.37 | 9.80 | QP |
| 4 | 0.59775 | 0.19 | 9.89 | 35.47 | 45.55 | 56.00 | 10.45 | QP |
| 5 | 0.68730 | 0.19 | 9.89 | 35.64 | 45.72 | 56.00 | 10.28 | QP |
| 6 | 3.493 | 0.26 | 9.91 | 35.30 | 45.47 | 56.00 | 10.53 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+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

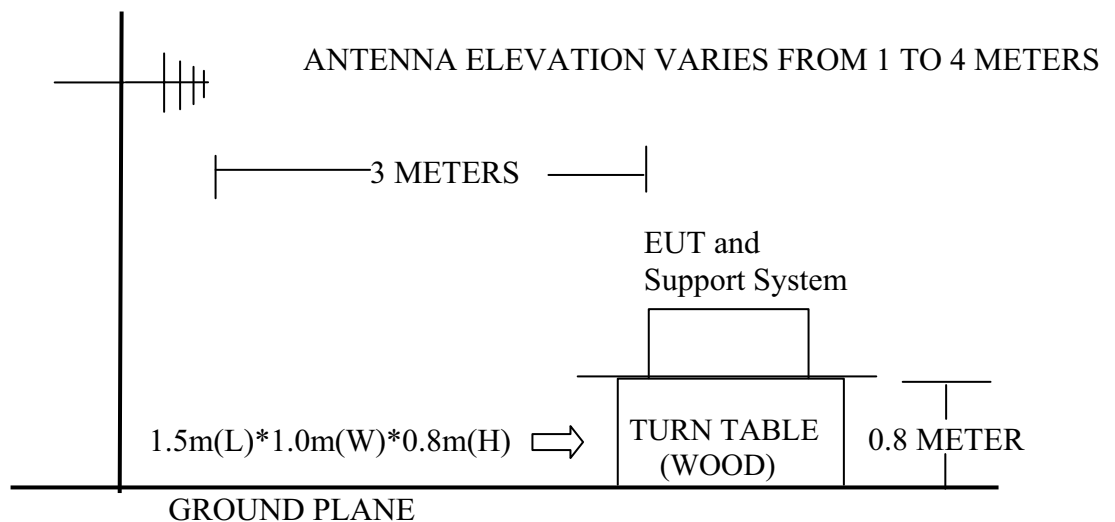
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| 1 | 3#Chamber | AUDIX | N/A | N/A | Dec.05,09 | 1 Year |
| 2 | EMI Spectrum | Agilent | E4407B | MY41440292 | May.08, 10 | 1 Year |
| 3 | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | May.08, 10 | 1 Year |
| 4 | Amplifier | HP | 8447D | 2648A04738 | May.08, 10 | 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, 10 | 1 Year |
| 7 | Coaxial Switch | Anritsu | MP59B | M73989 | May.08, 10 | 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, 10 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9510-4580 | Nov.19, 09 | 1.5 Year |
| 3 | Horn Antenna | EMCO | 3116 | 00060088 | Nov.25, 09 | 1.5 Year |
| 4 | Amplifier | Agilent | 8449B | 3008A00863 | May.08, 10 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | May.08, 10 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08, 10 | 1 Year |
| 7 | RF Cable | Hubersuhner | SUCOFLEX102 | 28610/2 | May.08, 10 | 1 Year |

4.1.1. In Anechoic Chamber

ANTENNA TOWER



4.2. Radiated Emission Limit

4.2.1. 15.209 limits

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|-----------------------------------|
| | | $\mu\text{V}/\text{m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) | |

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (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.

4.2.2. 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.

4.3. 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.

4.3.1. 2.4GHz High Power Wireless Outdoor CPE (EUT)

Model Number : TL-WA5210G
Serial Number : N/A

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

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 2.4
- 4.4.2. Turned on the power of all equipment.
- 4.4.3. Notebook run test software to control EUT work in test mode.

4.5. 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 3MHz 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.

4.6. Radiated Emission Test Results

PASS.

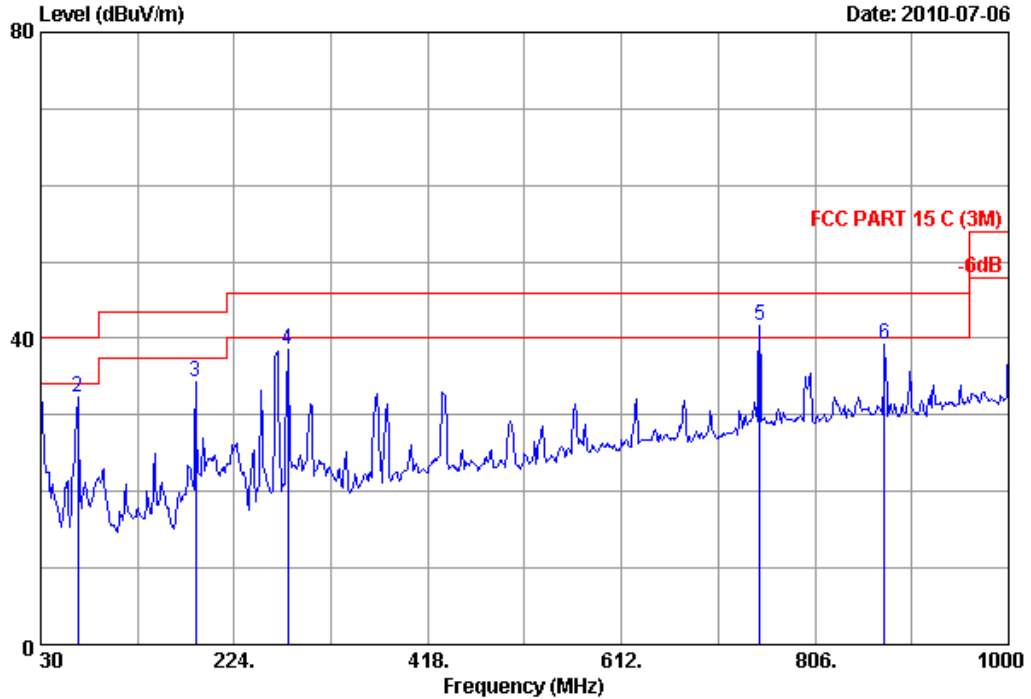
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Frequency: 30MHz~1GHz



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Data: 10 File: D:\2010 Report Data\T\TTP_LINK\ACS10Q0992.EM6 (11)



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Sunny-lu
 EUT : 2.4G High Power Wireless Outdoor CPE
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : TL-WA5210G

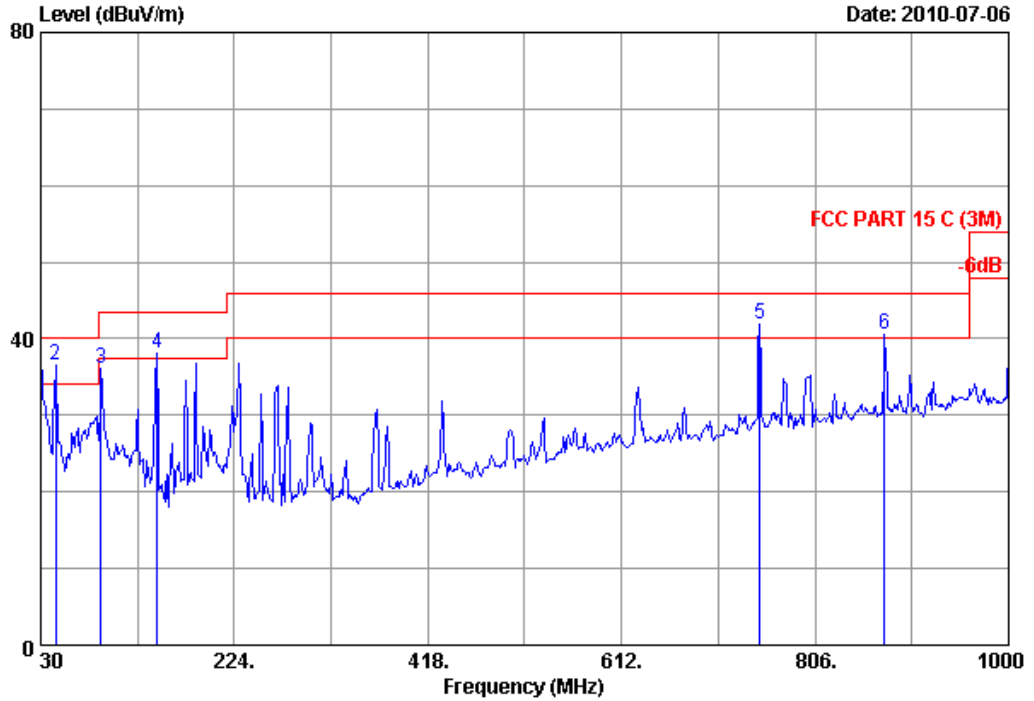
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 30.000 | 20.00 | 0.61 | 12.42 | 33.03 | 40.00 | 6.97 | QP |
| 2 | 66.860 | 6.24 | 0.90 | 25.26 | 32.40 | 40.00 | 7.60 | QP |
| 3 | 185.200 | 9.30 | 1.55 | 23.37 | 34.22 | 43.50 | 9.28 | QP |
| 4 | 277.350 | 13.20 | 2.34 | 23.10 | 38.64 | 46.00 | 7.36 | QP |
| 5 | 750.710 | 22.00 | 4.70 | 14.96 | 41.66 | 46.00 | 4.34 | QP |
| 6 | 875.840 | 22.80 | 5.13 | 11.18 | 39.11 | 46.00 | 6.89 | 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: 11 File: D:\2010 Report Data\T\TTP_LINK\ACS10Q0992.EM6 (11)



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Sunny-lu
 EUT : 2.4G High Power Wireless Outdoor CPE
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : TL-WA5210G

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission | | | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------|--------------------|----------------|--------|
| | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 30.000 | 20.00 | 0.61 | 16.75 | 37.36 | 40.00 | 2.64 | QP |
| 2 | 44.550 | 11.80 | 0.73 | 24.13 | 36.66 | 40.00 | 3.34 | QP |
| 3 | 90.140 | 9.10 | 1.06 | 25.88 | 36.04 | 43.50 | 7.46 | QP |
| 4 | 146.400 | 11.84 | 1.14 | 25.19 | 38.17 | 43.50 | 5.33 | QP |
| 5 | 750.710 | 22.00 | 4.70 | 15.19 | 41.89 | 46.00 | 4.11 | QP |
| 6 | 875.840 | 22.80 | 5.13 | 12.69 | 40.62 | 46.00 | 5.38 | QP |

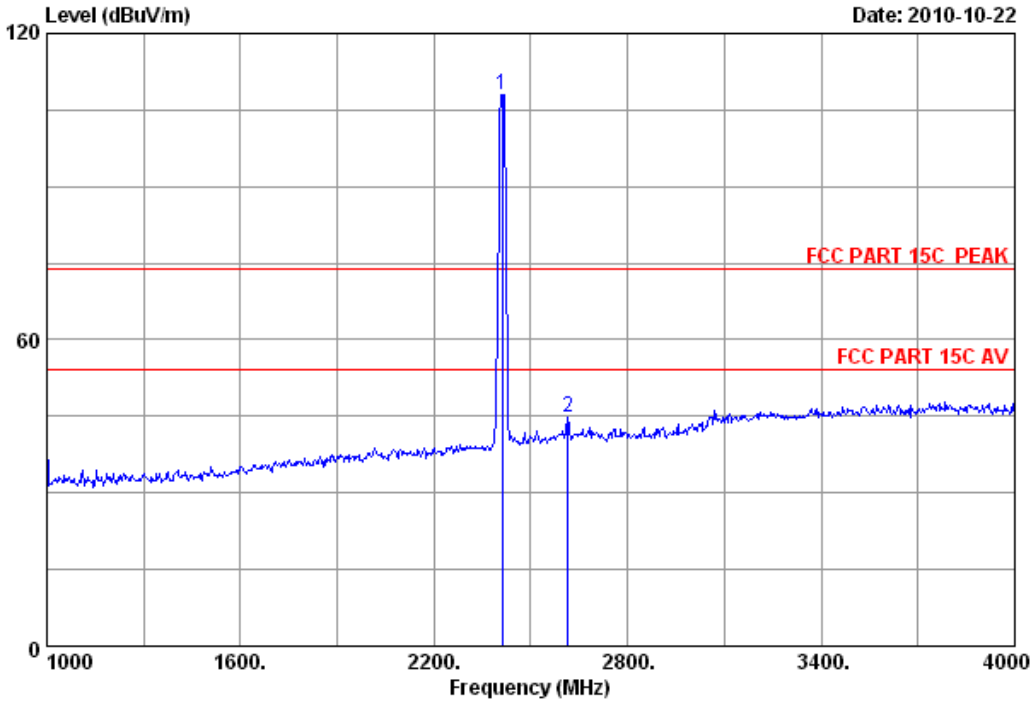
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



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Data: 1 File: E:\2010 report data\TP-LINK\ACS10Q1972.EM6 (156) Date: 2010-10-22



Site no. : RF Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

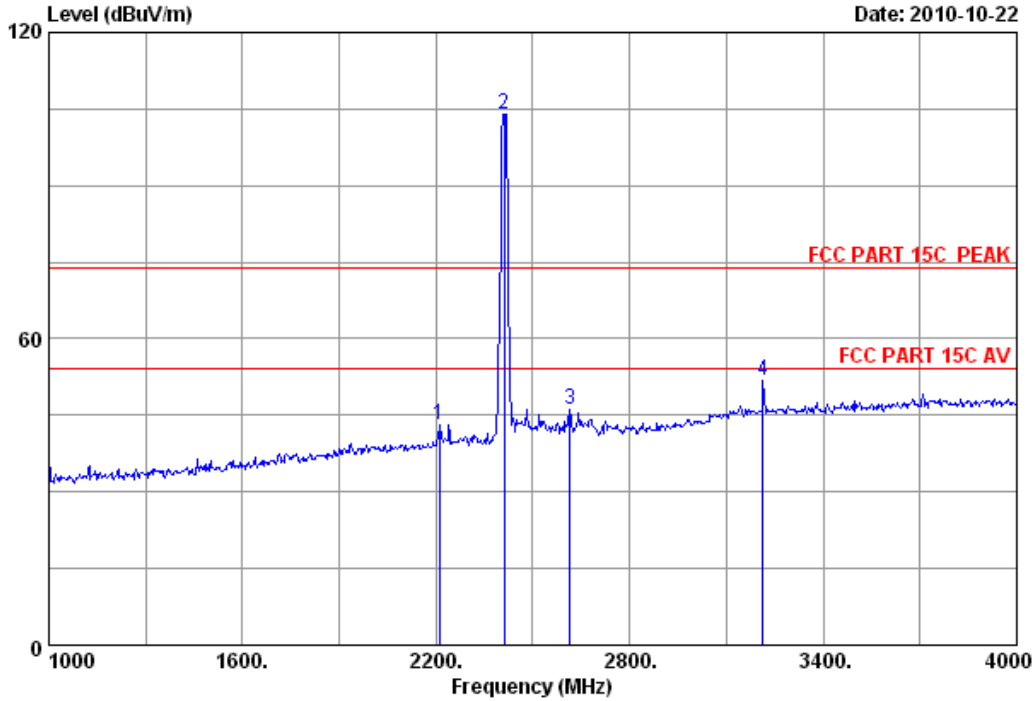
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2412.000 | 29.45 | 7.43 | 36.62 | 107.73 | 107.99 | 74.00 | -33.99 | Peak |
| 2 | 2614.000 | 30.08 | 7.80 | 36.58 | 43.41 | 44.71 | 74.00 | 29.29 | 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:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2209.000 | 29.32 | 7.05 | 36.66 | 43.52 | 43.23 | 74.00 | 30.77 | Peak |
| 2 | 2412.000 | 29.45 | 7.43 | 36.62 | 103.80 | 104.06 | 74.00 | -30.06 | Peak |
| 3 | 2614.000 | 30.08 | 7.80 | 36.58 | 44.91 | 46.21 | 74.00 | 27.79 | Peak |
| 4 | 3214.000 | 32.54 | 8.79 | 36.28 | 46.82 | 51.87 | 74.00 | 22.13 | Peak |

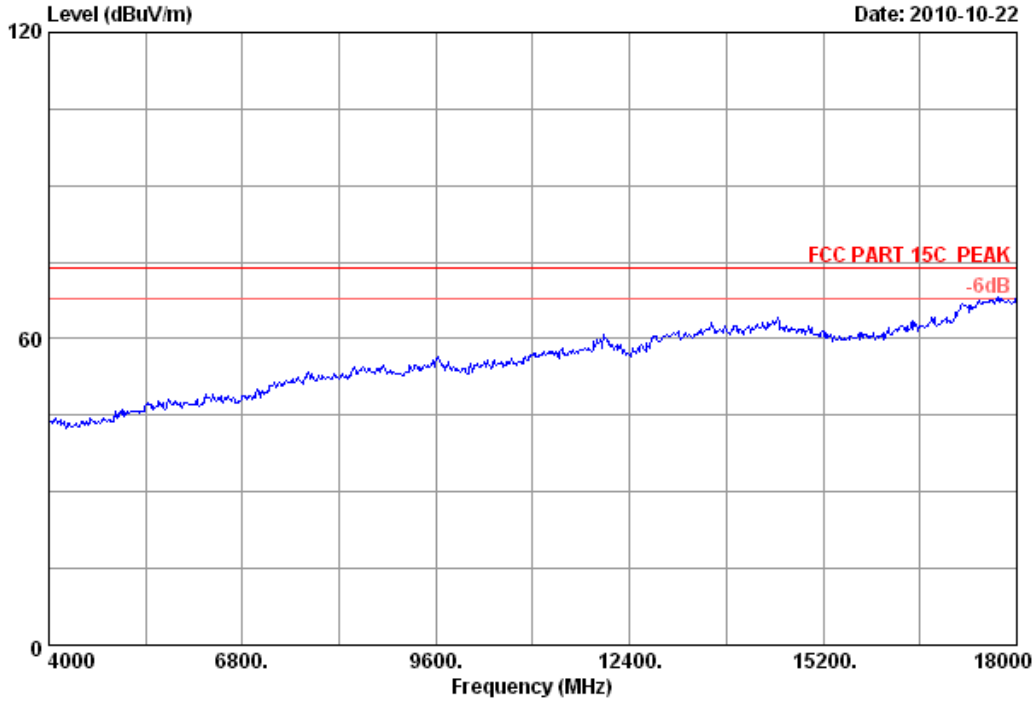
Remarks:

- 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: 3 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

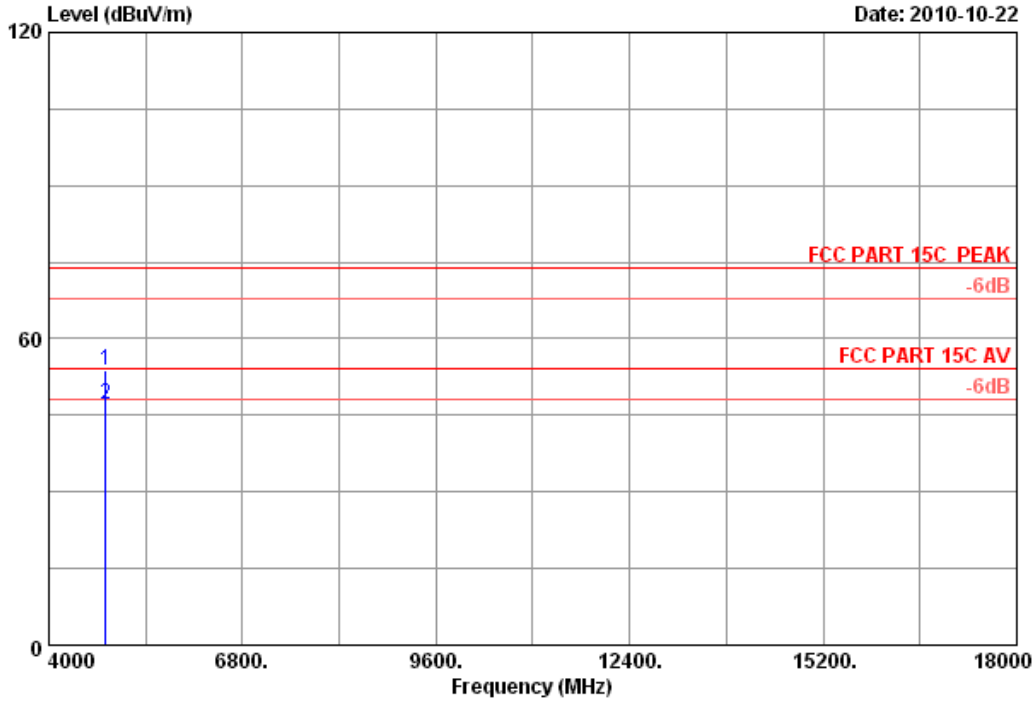


Site no. : RF Chamber Data no. : 3
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 4 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 43.97 | 53.85 | 74.00 | 20.15 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.16 | 47.04 | 54.00 | 6.96 | Average |

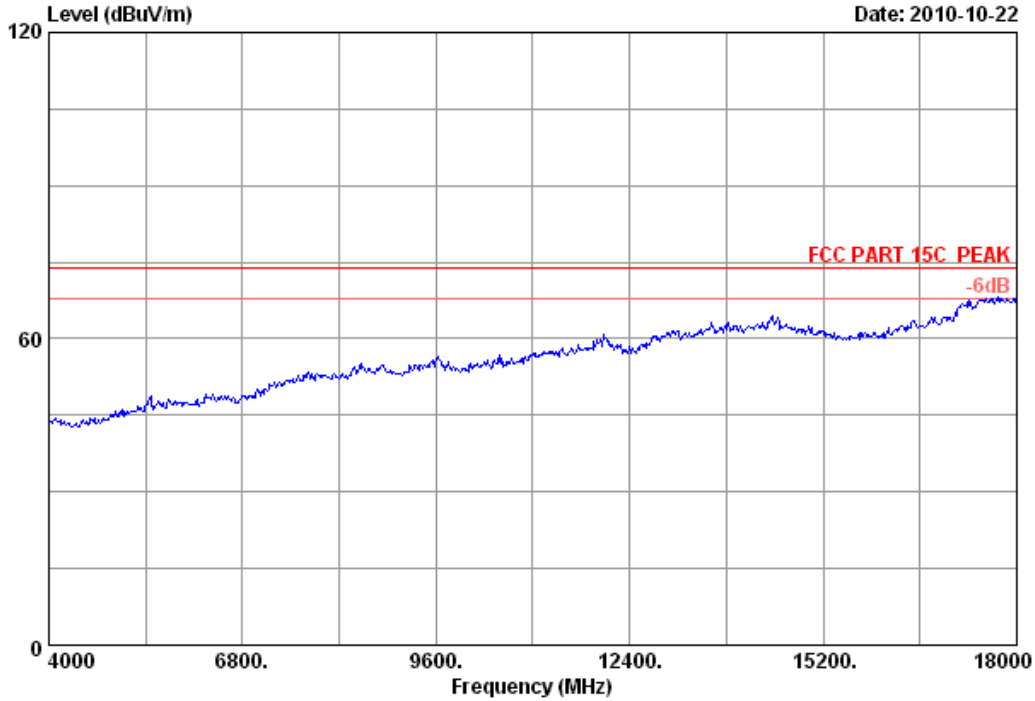
Remarks:

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: 5 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

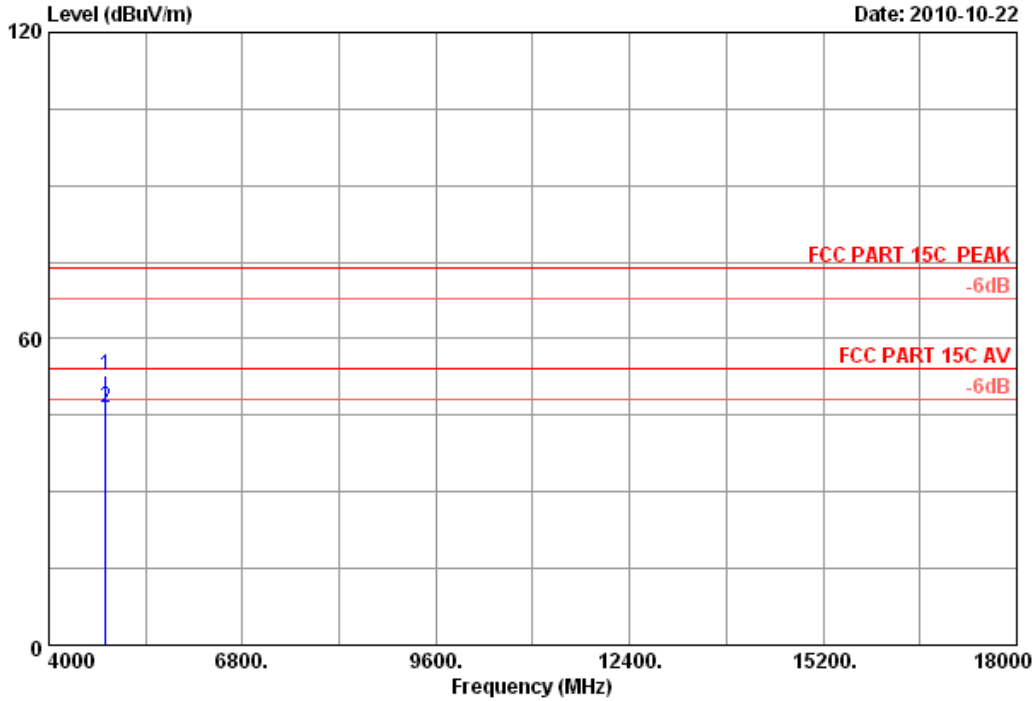


Site no. : RF Chamber Data no. : 5
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 6 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 42.97 | 52.85 | 74.00 | 21.15 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 36.49 | 46.37 | 54.00 | 7.63 | Average |

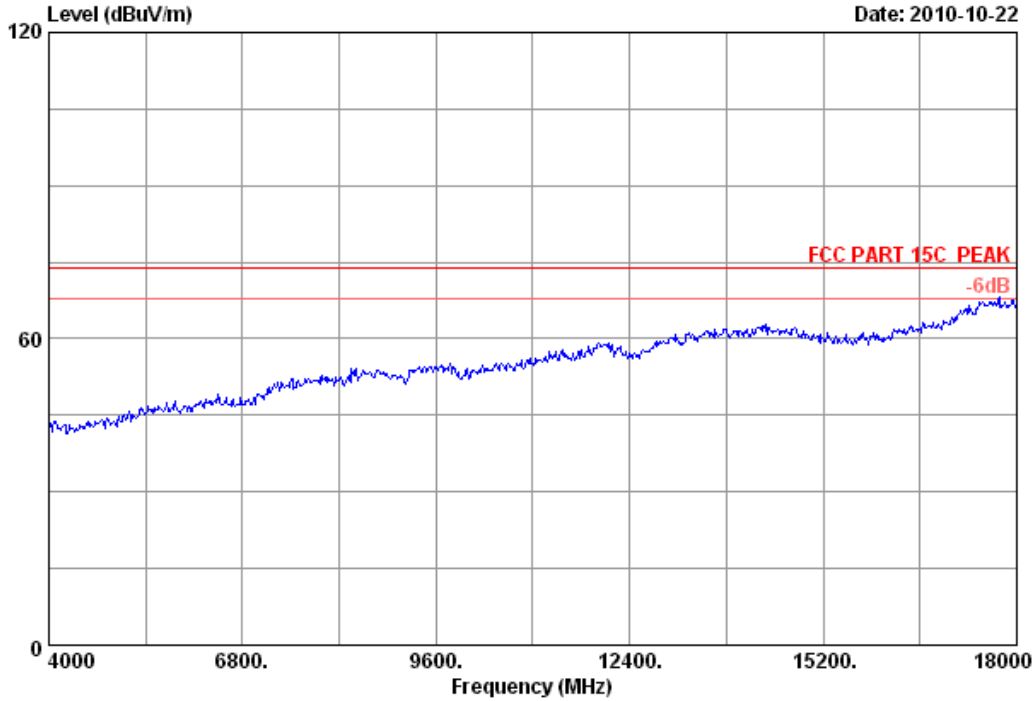
Remarks:

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: 7 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

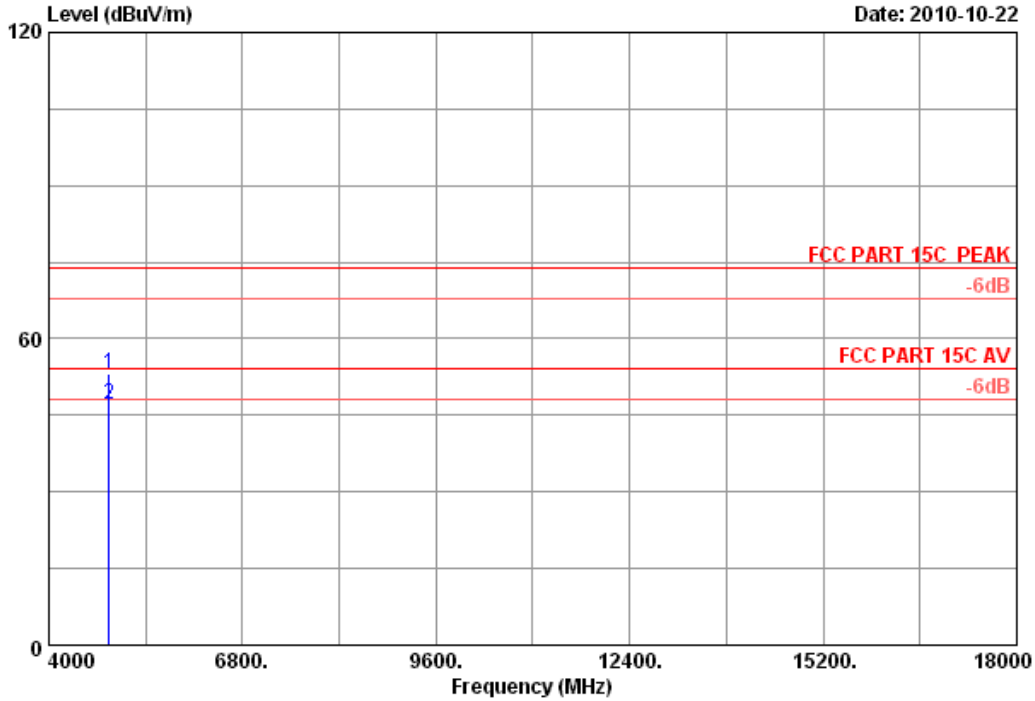


Site no. : RF Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 8 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 43.12 | 53.19 | 74.00 | 20.81 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.16 | 47.23 | 54.00 | 6.77 | Average |

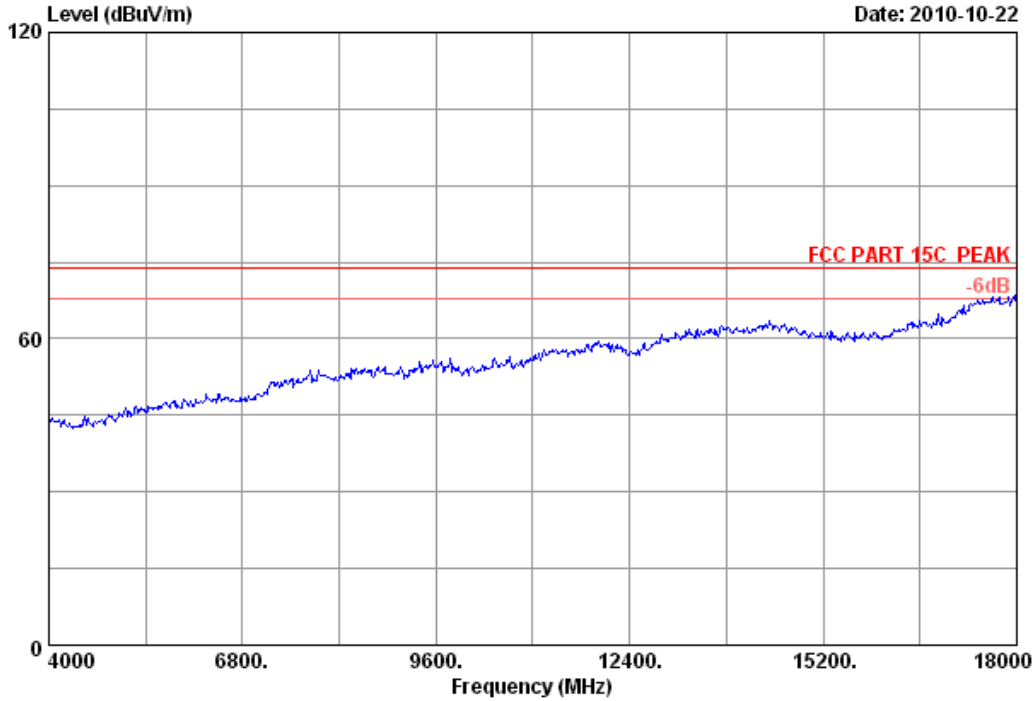
Remarks:

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: 9 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

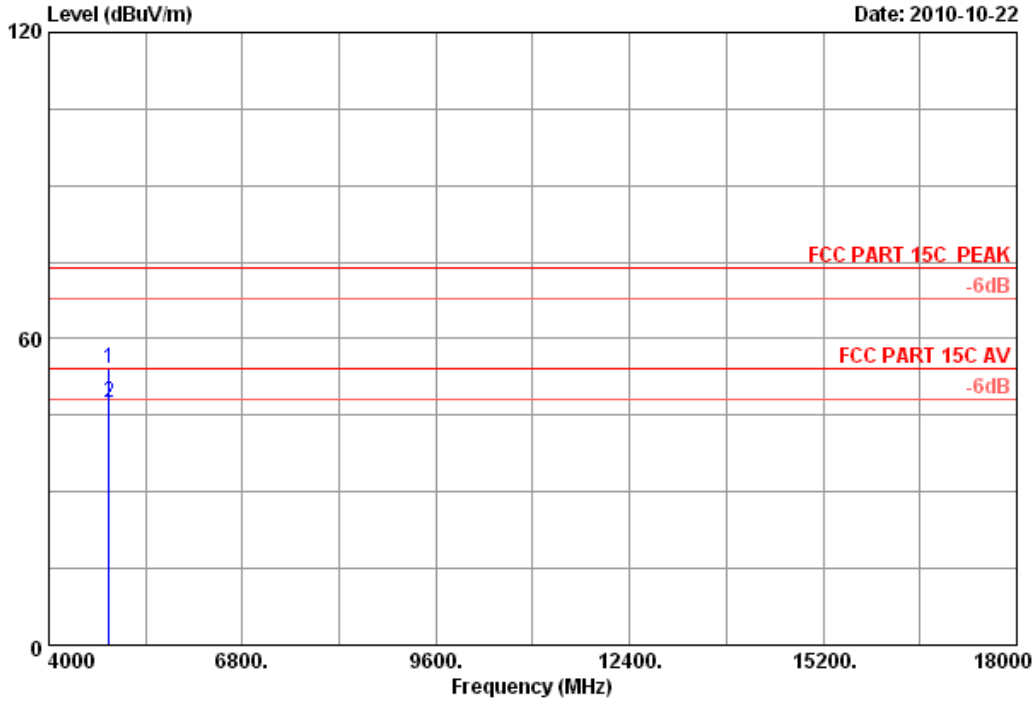


Site no. : RF Chamber Data no. : 9
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 10 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 44.16 | 54.23 | 74.00 | 19.77 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.45 | 47.52 | 54.00 | 6.48 | Average |

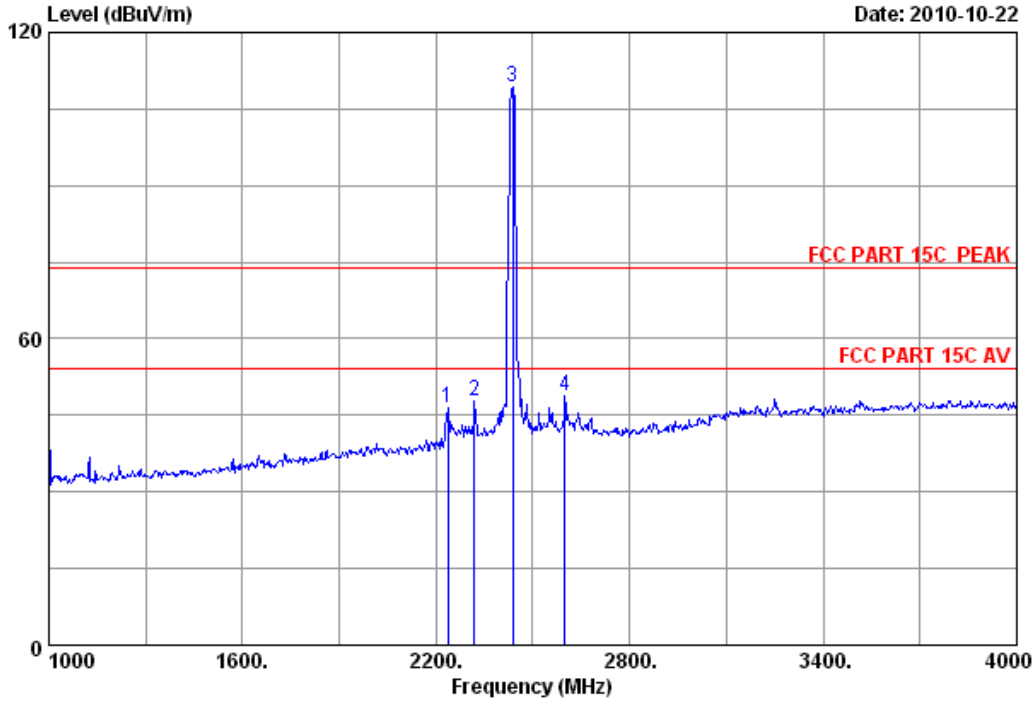
Remarks:

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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Data: 11 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 11
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2236.000 | 29.34 | 7.09 | 36.65 | 46.65 | 46.43 | 74.00 | 27.57 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 47.62 | 47.66 | 74.00 | 26.34 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 108.95 | 109.27 | 74.00 | -35.27 | Peak |
| 4 | 2599.000 | 30.00 | 7.80 | 36.58 | 47.62 | 48.84 | 74.00 | 25.16 | Peak |

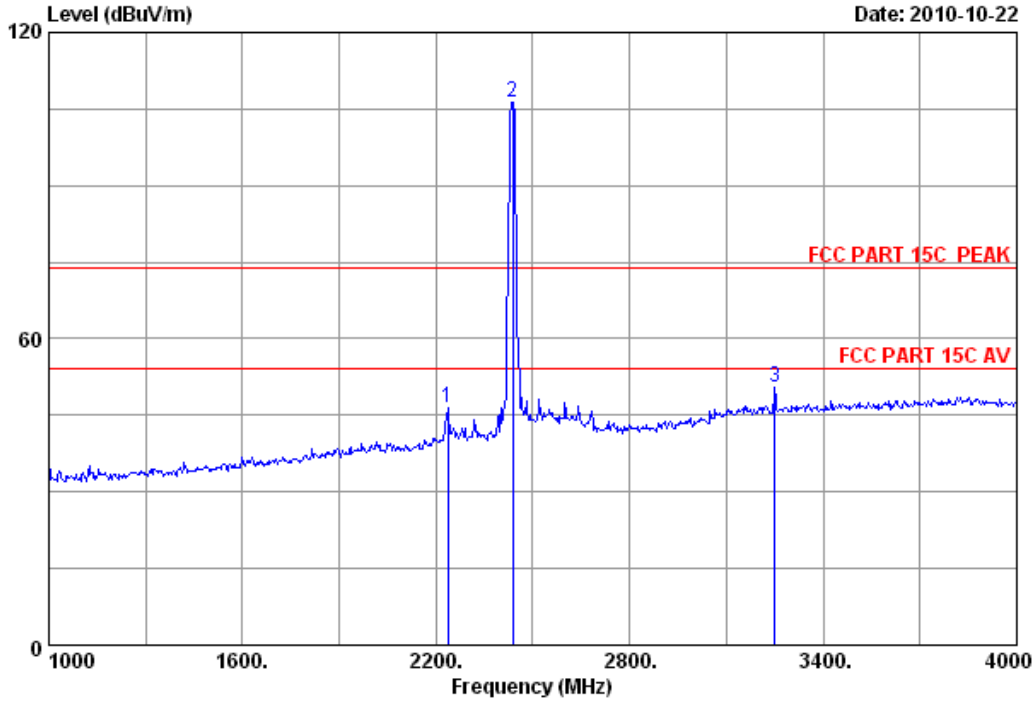
Remarks:

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: 12 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

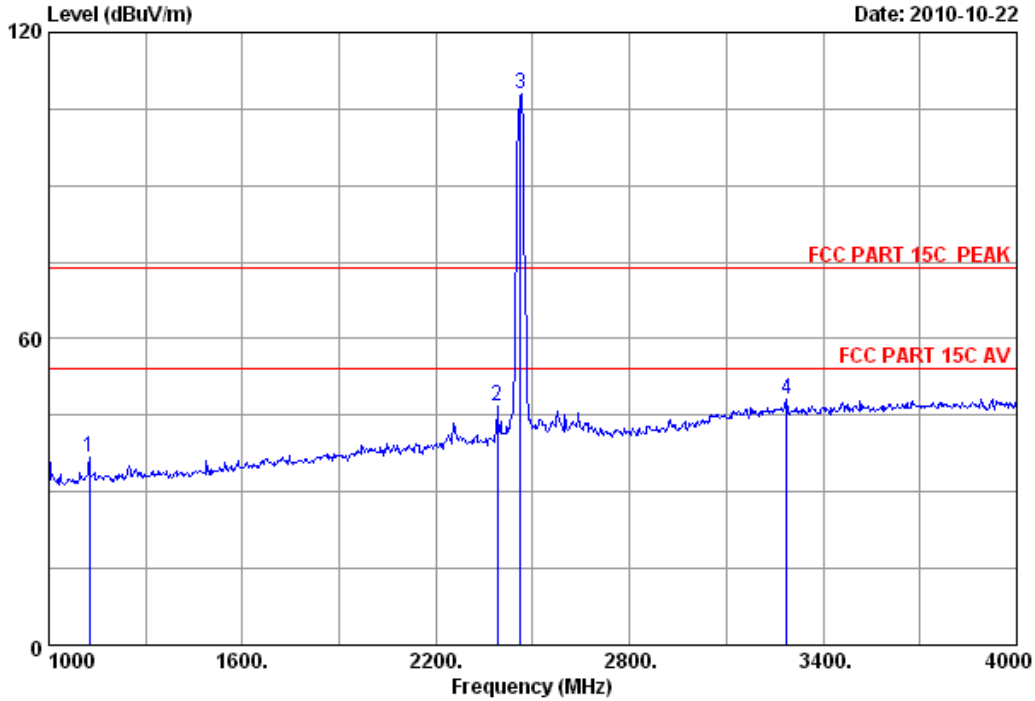
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2236.000 | 29.34 | 7.09 | 36.65 | 46.77 | 46.55 | 74.00 | 27.45 | Peak |
| 2 | 2437.000 | 29.47 | 7.46 | 36.61 | 106.06 | 106.38 | 74.00 | -32.38 | Peak |
| 3 | 3250.000 | 32.63 | 8.83 | 36.25 | 45.16 | 50.37 | 74.00 | 23.63 | 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: 13 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 1126.000 | 25.64 | 5.01 | 37.68 | 43.78 | 36.75 | 74.00 | 37.25 | Peak |
| 2 | 2389.000 | 29.44 | 7.39 | 36.62 | 46.61 | 46.82 | 74.00 | 27.18 | Peak |
| 3 | 2462.000 | 29.48 | 7.54 | 36.61 | 107.56 | 107.97 | 74.00 | -33.97 | Peak |
| 4 | 3286.000 | 32.72 | 8.88 | 36.20 | 42.62 | 48.02 | 74.00 | 25.98 | Peak |

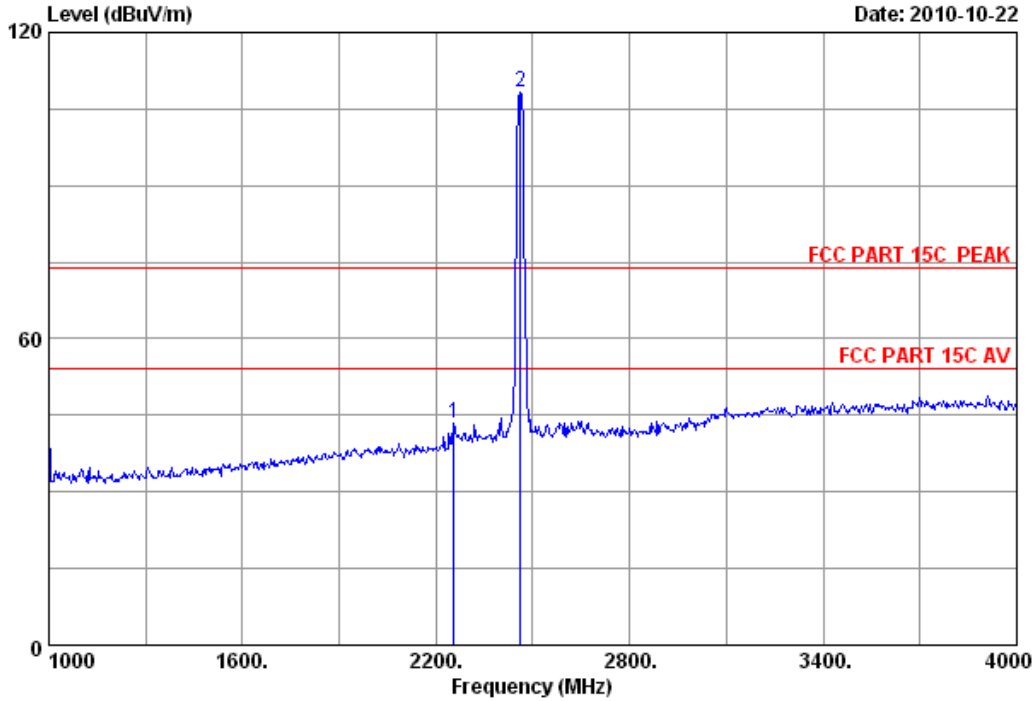
Remarks:

- 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: 14 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2254.000 | 29.36 | 7.12 | 36.65 | 43.58 | 43.41 | 74.00 | 30.59 | Peak |
| 2 | 2462.000 | 29.48 | 7.54 | 36.61 | 108.03 | 108.44 | 74.00 | -34.44 | Peak |

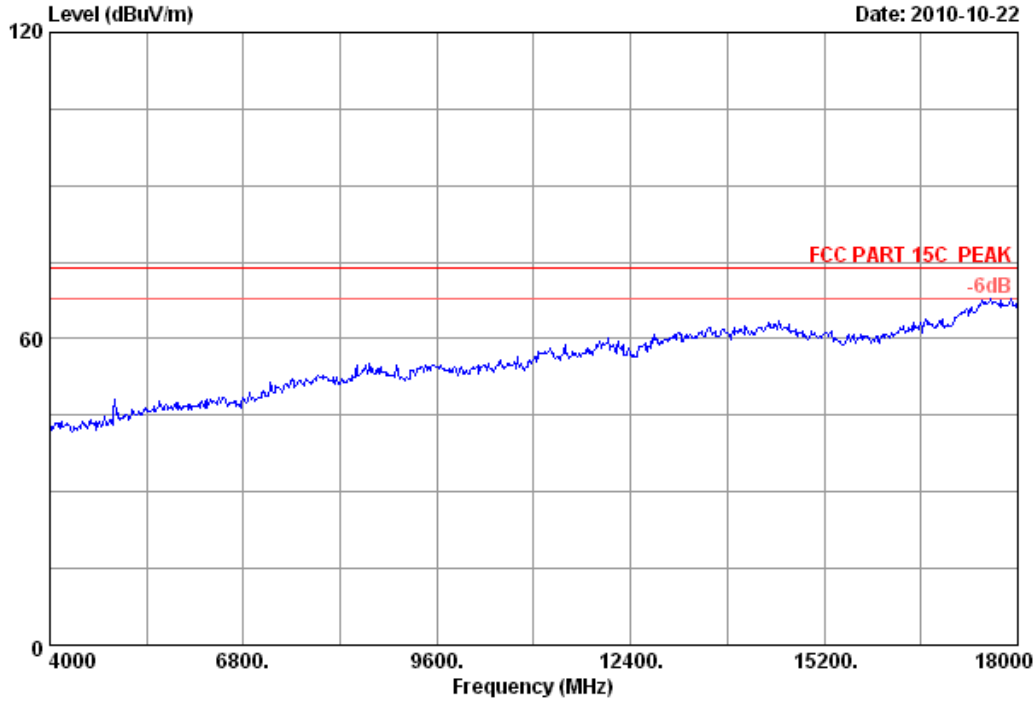
Remarks:

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: 15 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

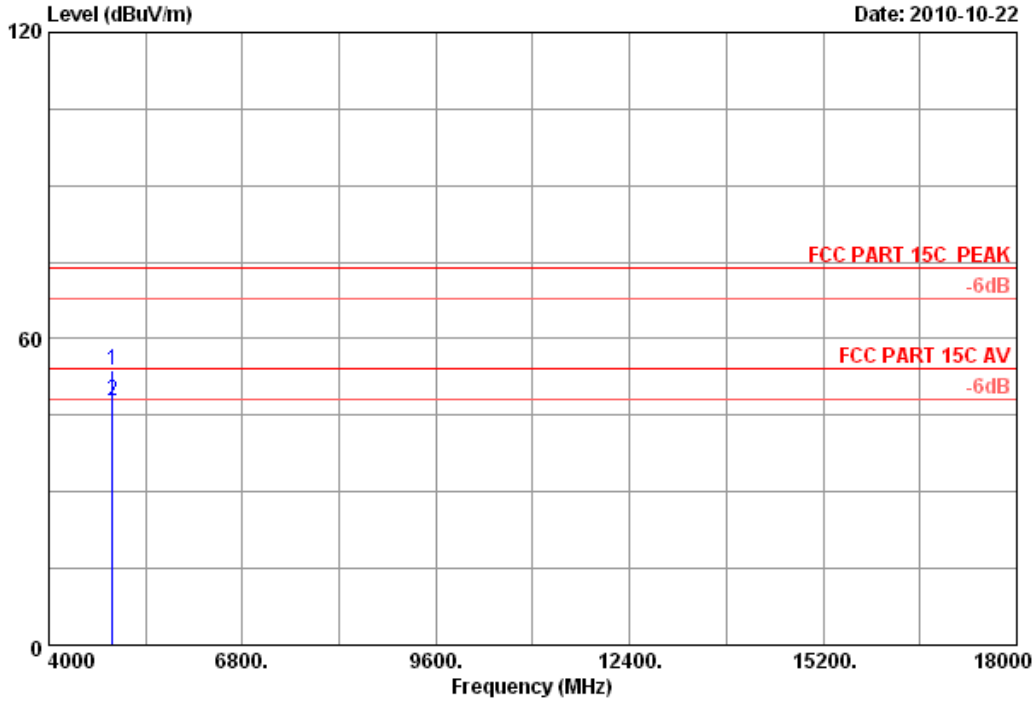


| | | | |
|-------------|--|-----------|------------|
| Site no. | : RF Chamber | Data no. | : 15 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH11 2462MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_VERTICAL | | |



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Data: 16 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4924.000 | 34.49 | 10.76 | 34.98 | 43.69 | 53.96 | 74.00 | 20.04 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.49 | 47.76 | 54.00 | 6.24 | Average |

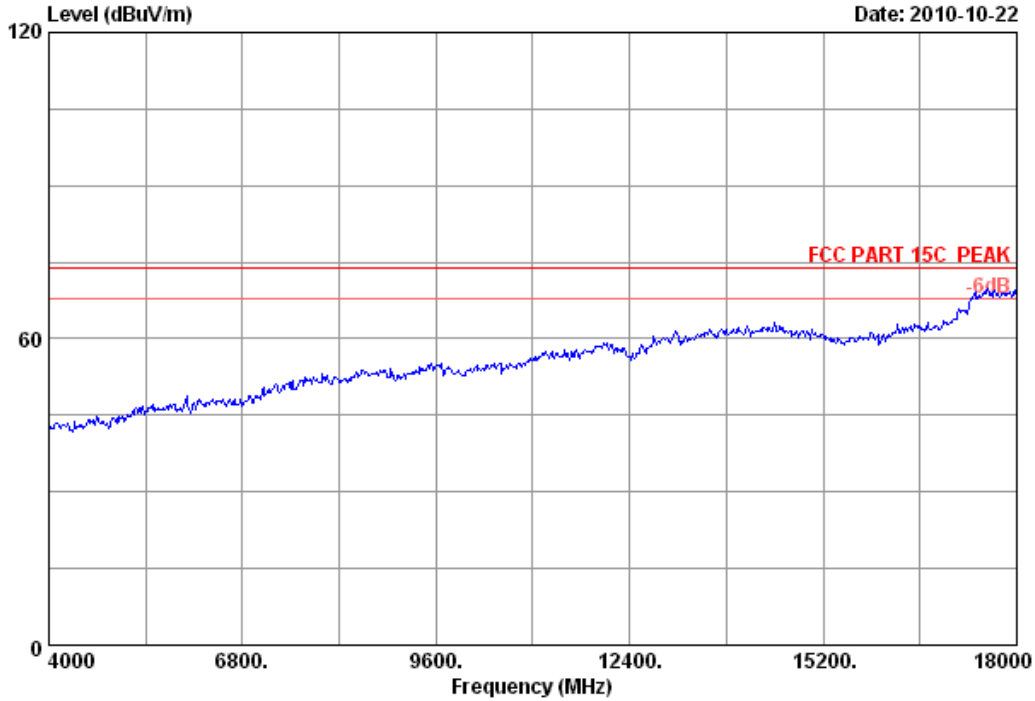
Remarks:

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: 17 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

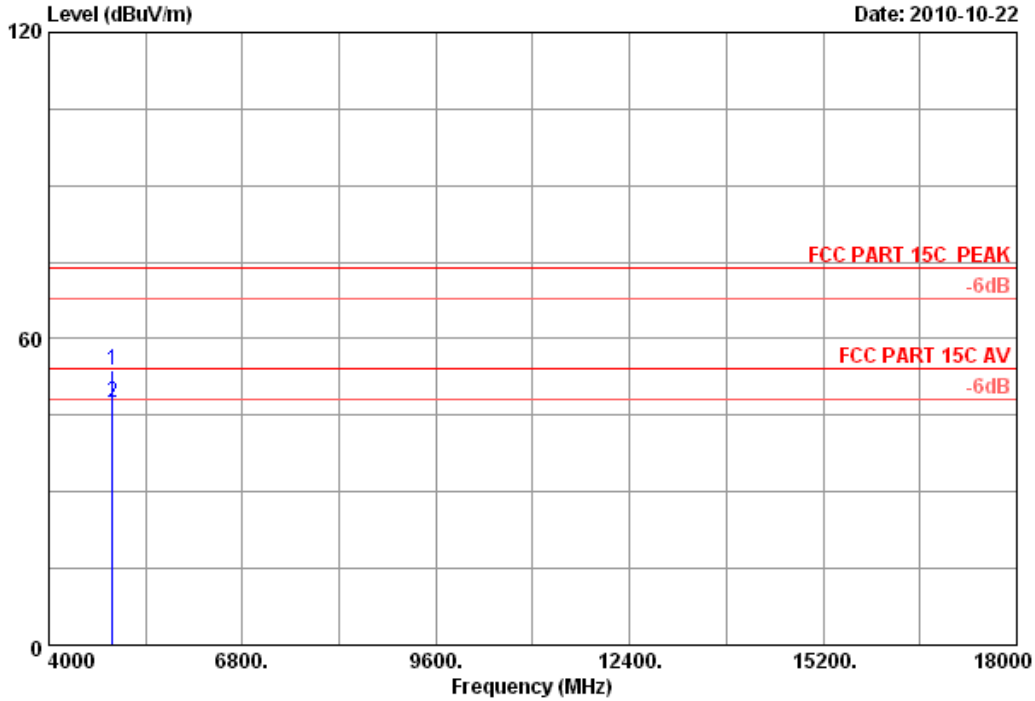


| | | | |
|-------------|--|-----------|--------------|
| Site no. | : RF Chamber | Data no. | : 17 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH11 2462MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_VERTICAL | | |



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Data: 18 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 43.58 | 53.85 | 74.00 | 20.15 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.14 | 47.41 | 54.00 | 6.59 | Average |

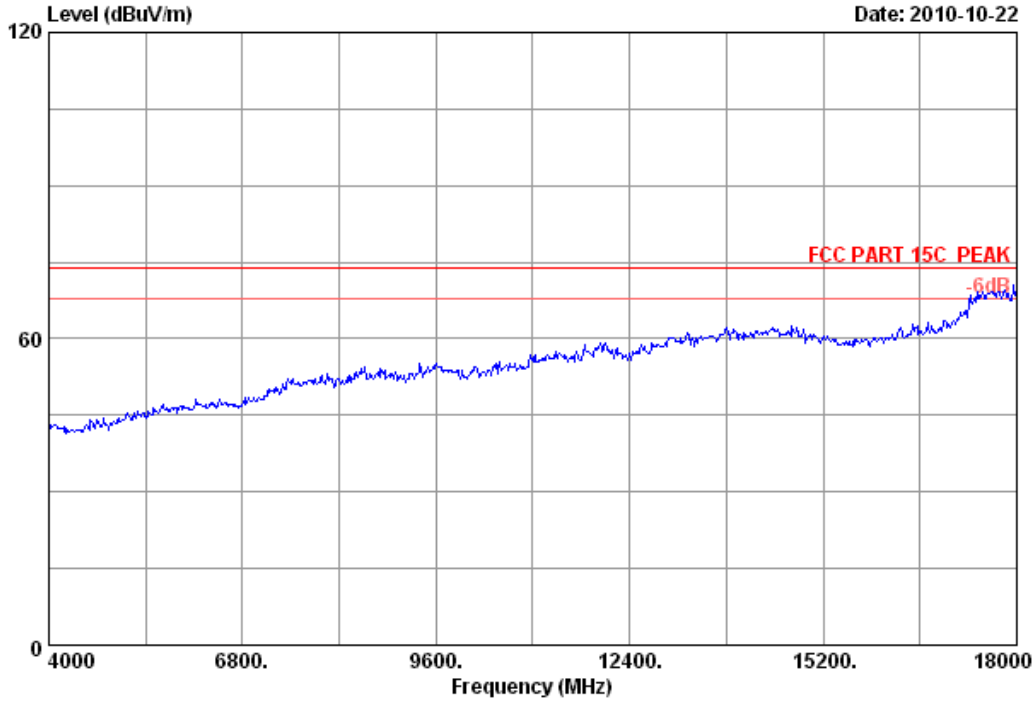
Remarks:

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:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

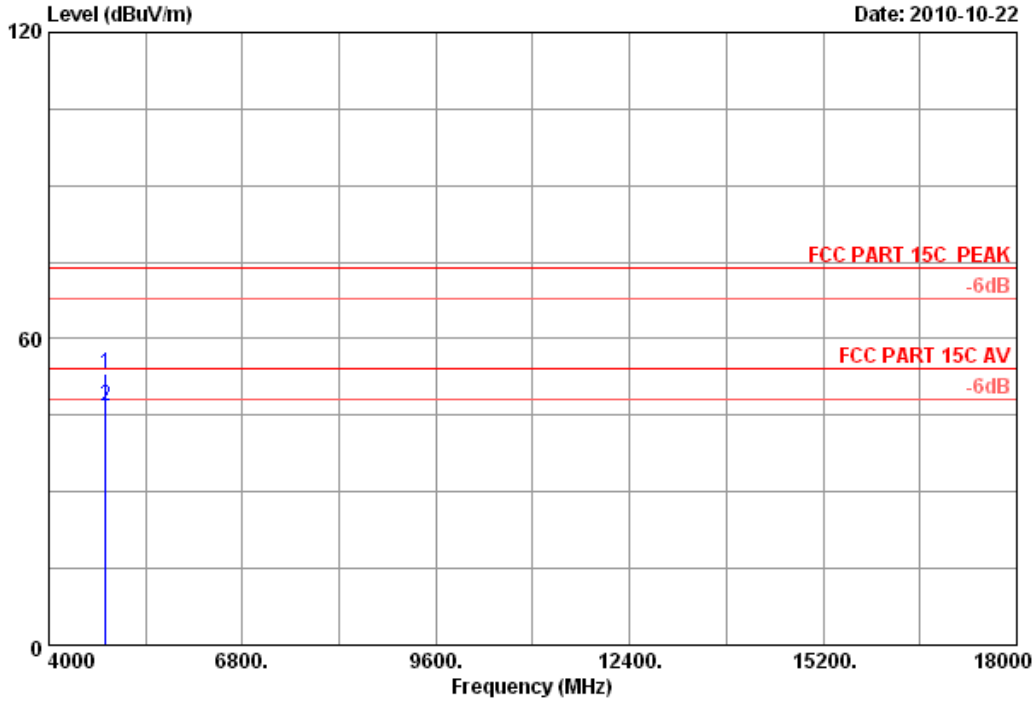


Site no. : RF Chamber Data no. : 19
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 20 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 43.26 | 53.14 | 74.00 | 20.86 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 36.88 | 46.76 | 54.00 | 7.24 | Average |

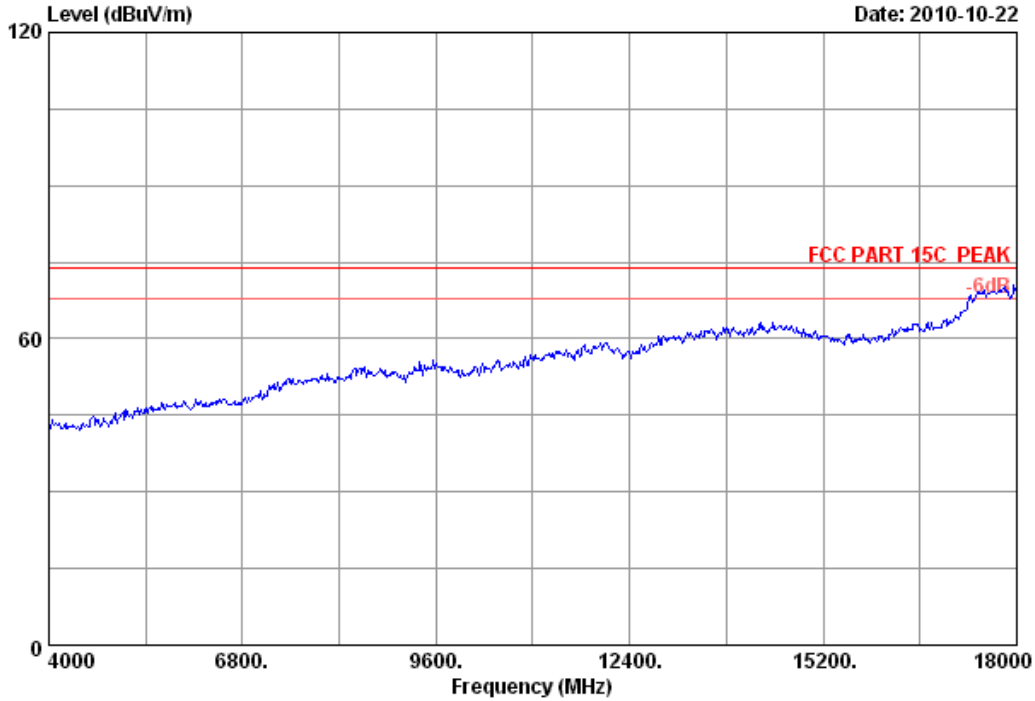
Remarks:

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: 21 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

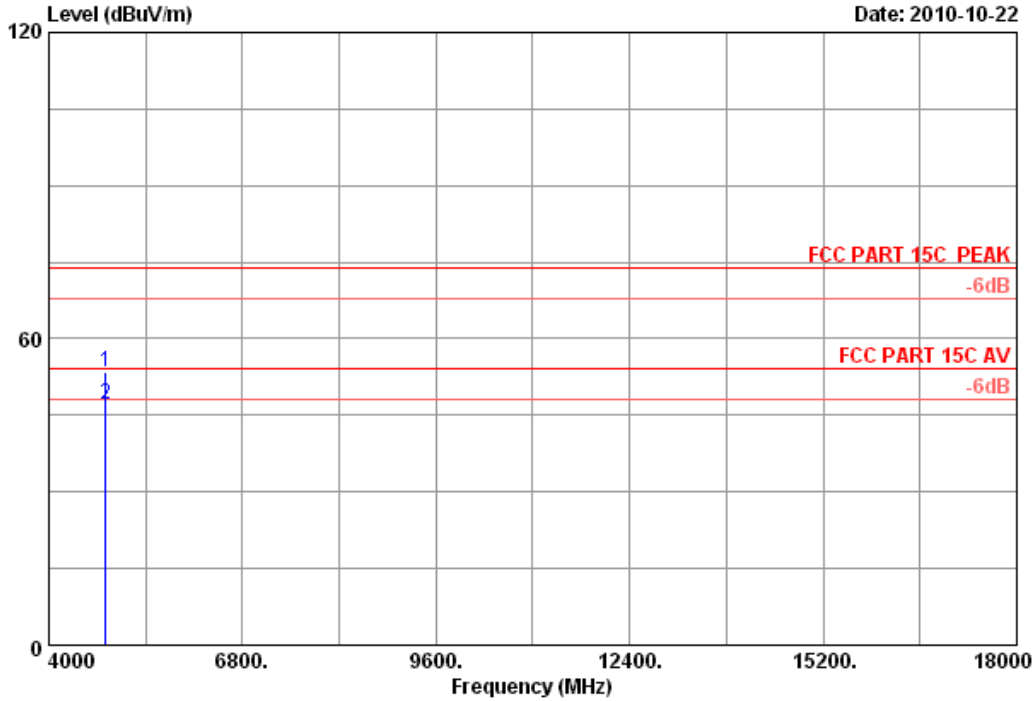


Site no. : RF Chamber Data no. : 21
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 22 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 43.70 | 53.58 | 74.00 | 20.42 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.15 | 47.03 | 54.00 | 6.97 | Average |

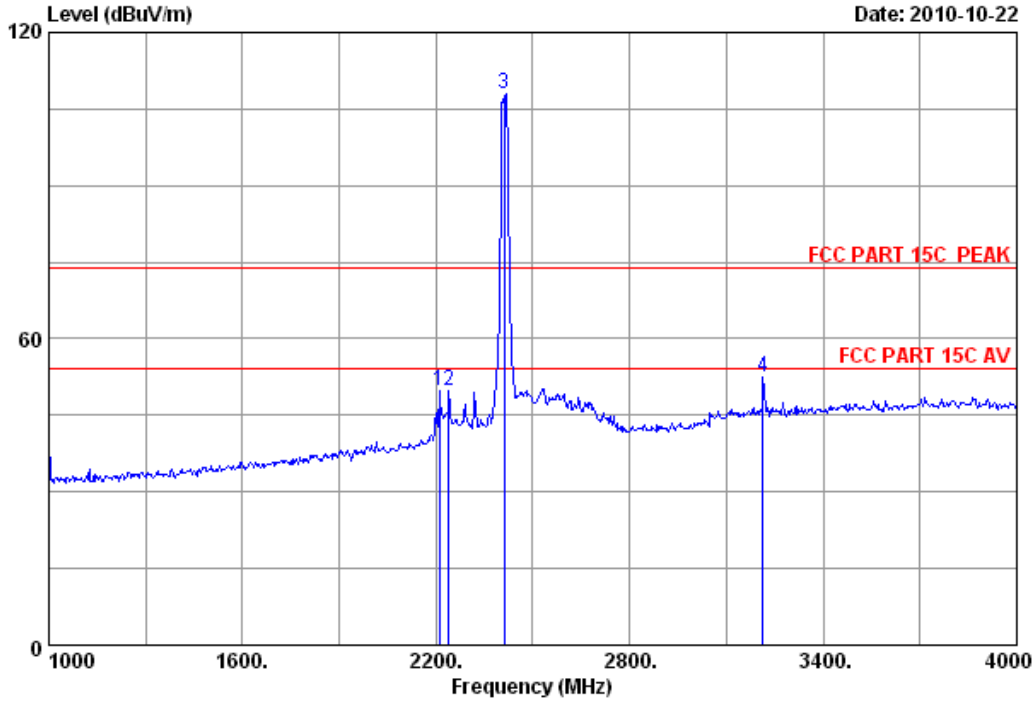
Remarks:

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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Site no. : RF Chamber Data no. : 23
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2209.000 | 29.32 | 7.05 | 36.66 | 50.08 | 49.79 | 74.00 | 24.21 | Peak |
| 2 | 2239.000 | 29.34 | 7.12 | 36.65 | 50.03 | 49.84 | 74.00 | 24.16 | Peak |
| 3 | 2412.000 | 29.45 | 7.43 | 36.62 | 107.57 | 107.83 | 74.00 | -33.83 | Peak |
| 4 | 3214.000 | 32.54 | 8.79 | 36.28 | 47.49 | 52.54 | 74.00 | 21.46 | Peak |

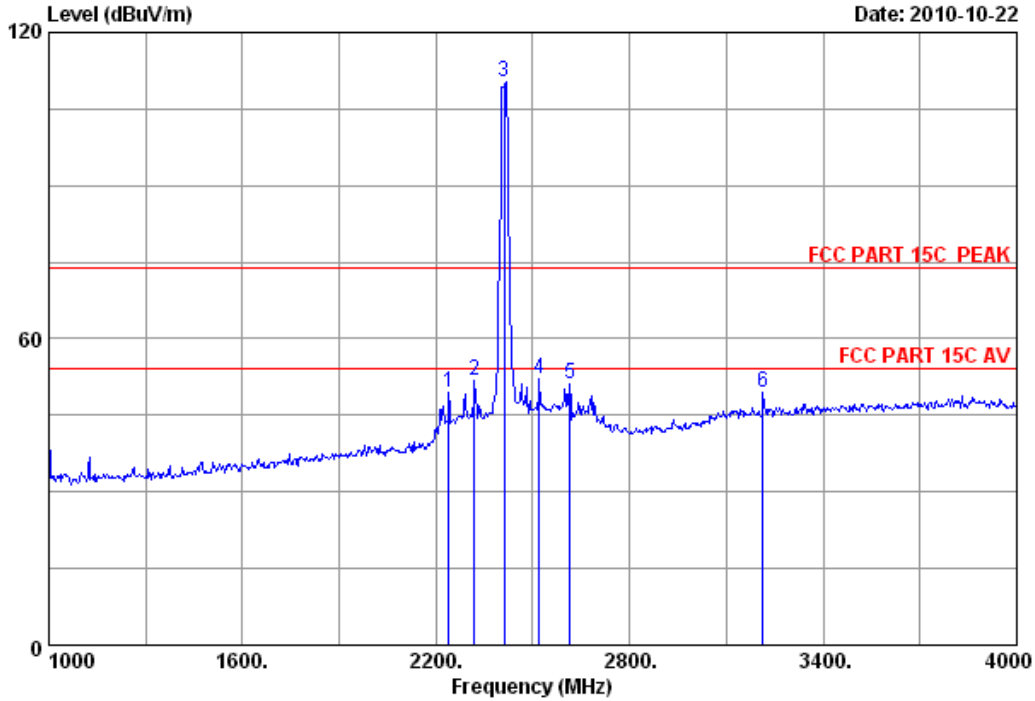
Remarks:

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. : RF Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2239.000 | 29.34 | 7.12 | 36.65 | 49.78 | 49.59 | 74.00 | 24.41 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 51.91 | 51.95 | 74.00 | 22.05 | Peak |
| 3 | 2412.000 | 29.45 | 7.43 | 36.62 | 110.13 | 110.39 | 74.00 | -36.39 | Peak |
| 4 | 2521.000 | 29.58 | 7.65 | 36.59 | 51.41 | 52.05 | 74.00 | 21.95 | Peak |
| 5 | 2614.000 | 30.08 | 7.80 | 36.58 | 49.76 | 51.06 | 74.00 | 22.94 | Peak |
| 6 | 3214.000 | 32.54 | 8.79 | 36.28 | 44.40 | 49.45 | 74.00 | 24.55 | Peak |

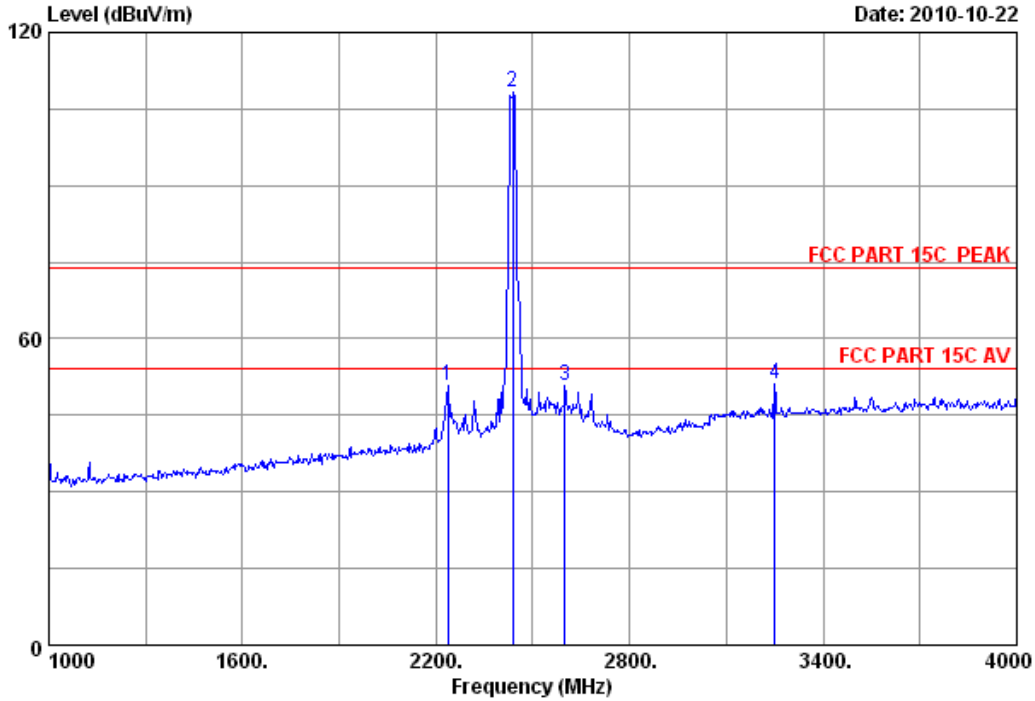
Remarks:

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: 25 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2236.000 | 29.34 | 7.09 | 36.65 | 51.05 | 50.83 | 74.00 | 23.17 | Peak |
| 2 | 2437.000 | 29.47 | 7.46 | 36.61 | 107.93 | 108.25 | 74.00 | -34.25 | Peak |
| 3 | 2599.000 | 30.00 | 7.80 | 36.58 | 49.60 | 50.82 | 74.00 | 23.18 | Peak |
| 4 | 3250.000 | 32.63 | 8.83 | 36.25 | 45.82 | 51.03 | 74.00 | 22.97 | Peak |

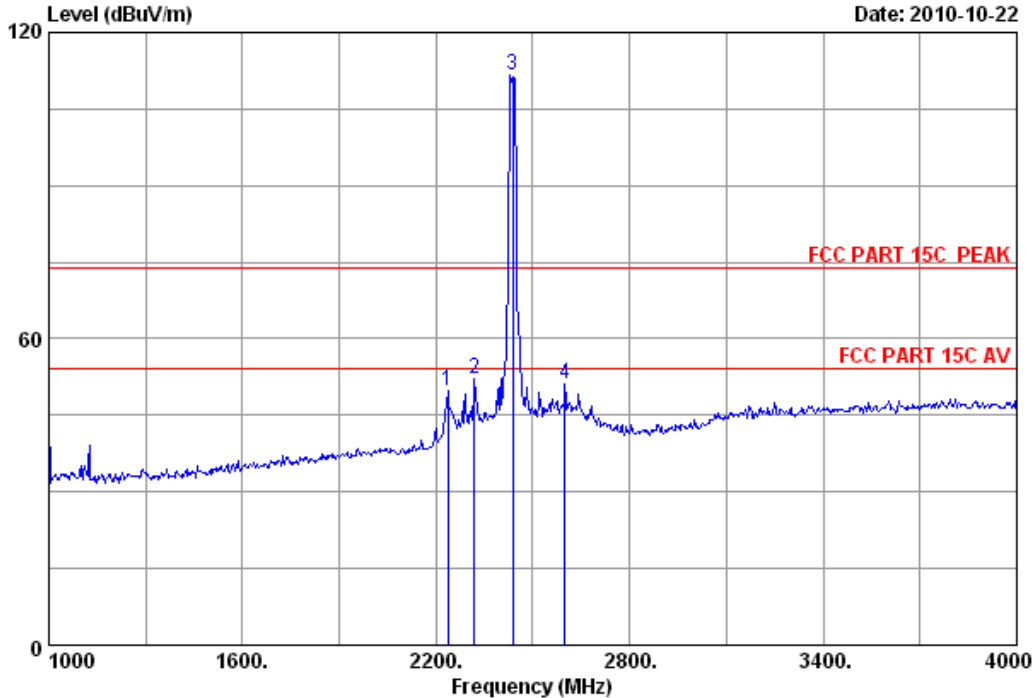
Remarks:

- 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. : RF Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2236.000 | 29.34 | 7.09 | 36.65 | 50.02 | 49.80 | 74.00 | 24.20 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 52.10 | 52.14 | 74.00 | 21.86 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 111.24 | 111.56 | 74.00 | -37.56 | Peak |
| 4 | 2599.000 | 30.00 | 7.80 | 36.58 | 49.95 | 51.17 | 74.00 | 22.83 | Peak |

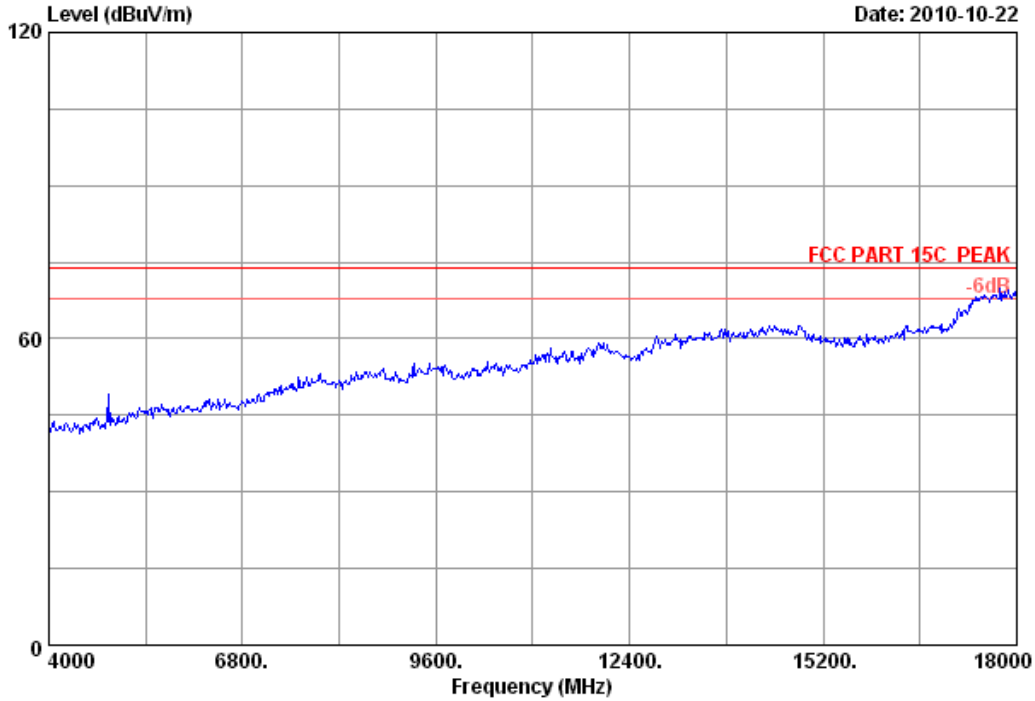
Remarks:

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:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

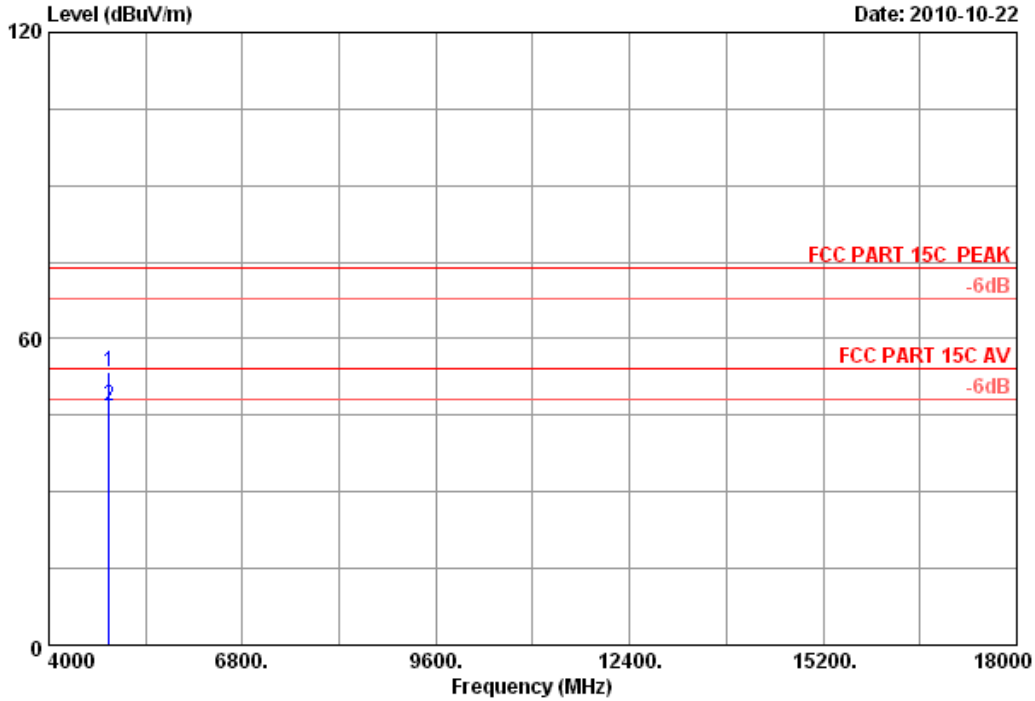


Site no. : RF Chamber Data no. : 27
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 28 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 43.26 | 53.33 | 74.00 | 20.67 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.57 | 46.64 | 54.00 | 7.36 | Average |

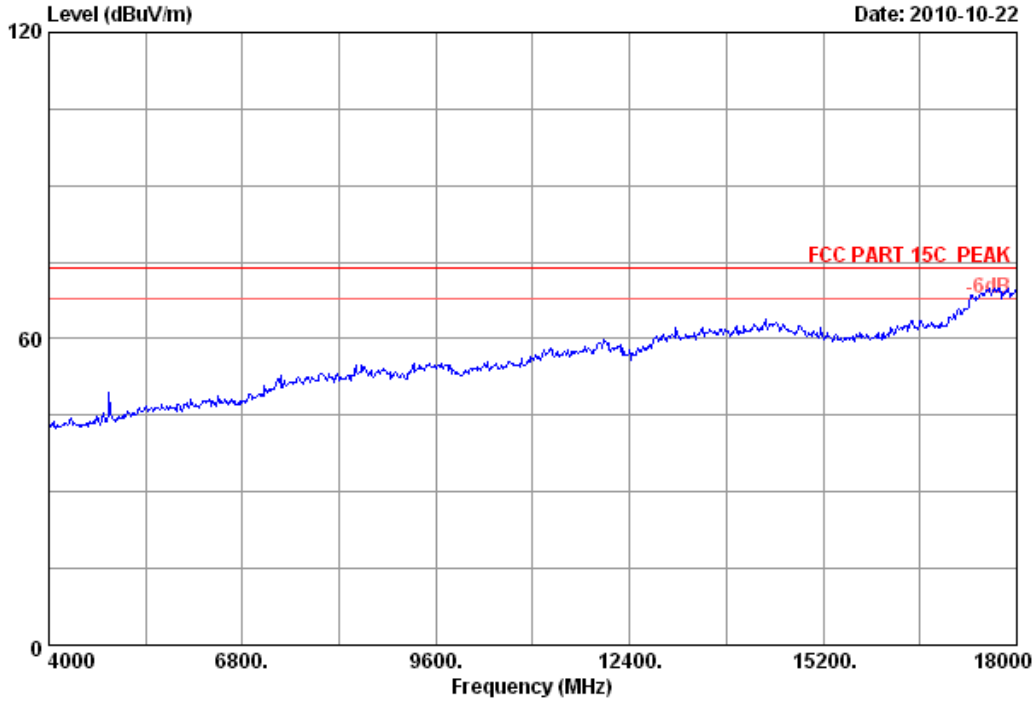
Remarks:

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:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

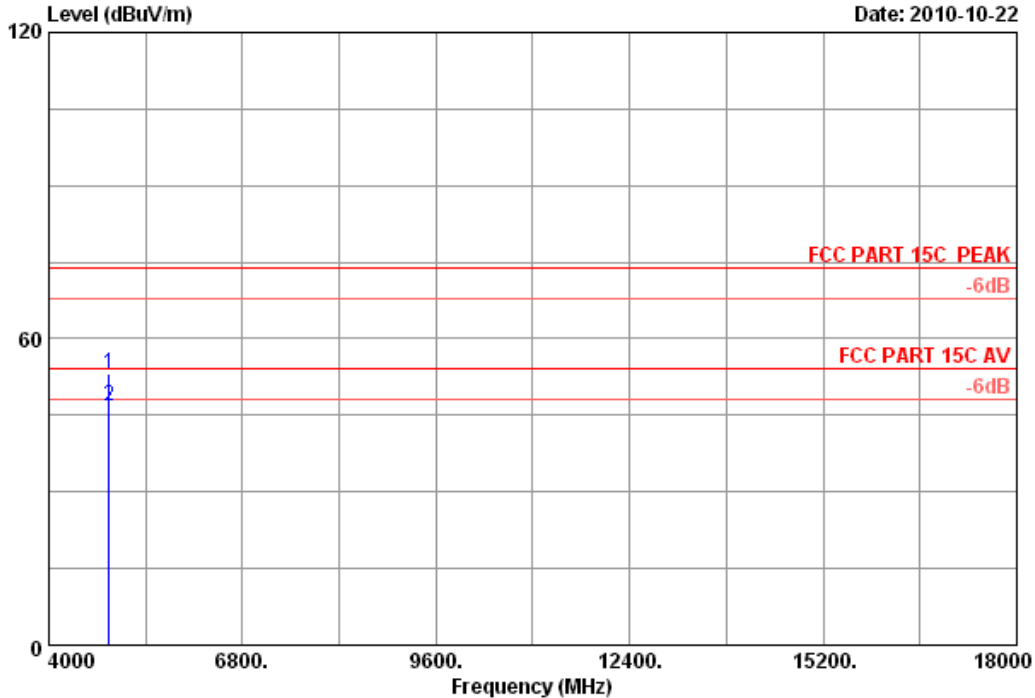


| | | | |
|-------------|--|-----------|------------|
| Site no. | : RF Chamber | Data no. | : 29 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH6 2437MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_VERTICAL | | |



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Data: 30 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 43.05 | 53.12 | 74.00 | 20.88 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.75 | 46.82 | 54.00 | 7.18 | Average |

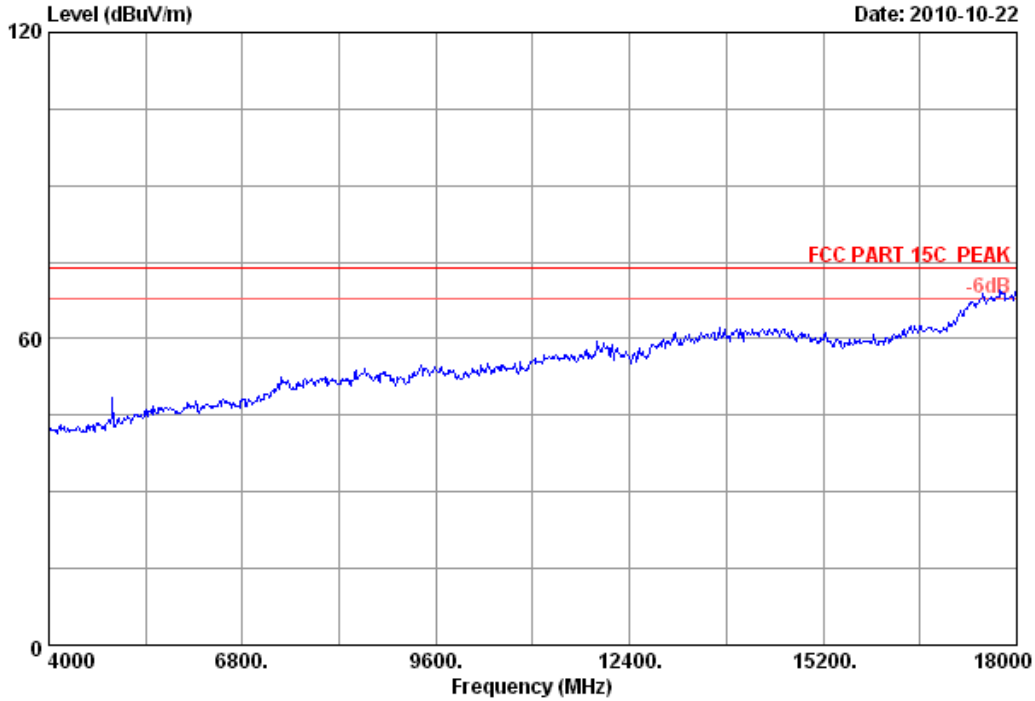
Remarks:

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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Data: 31 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

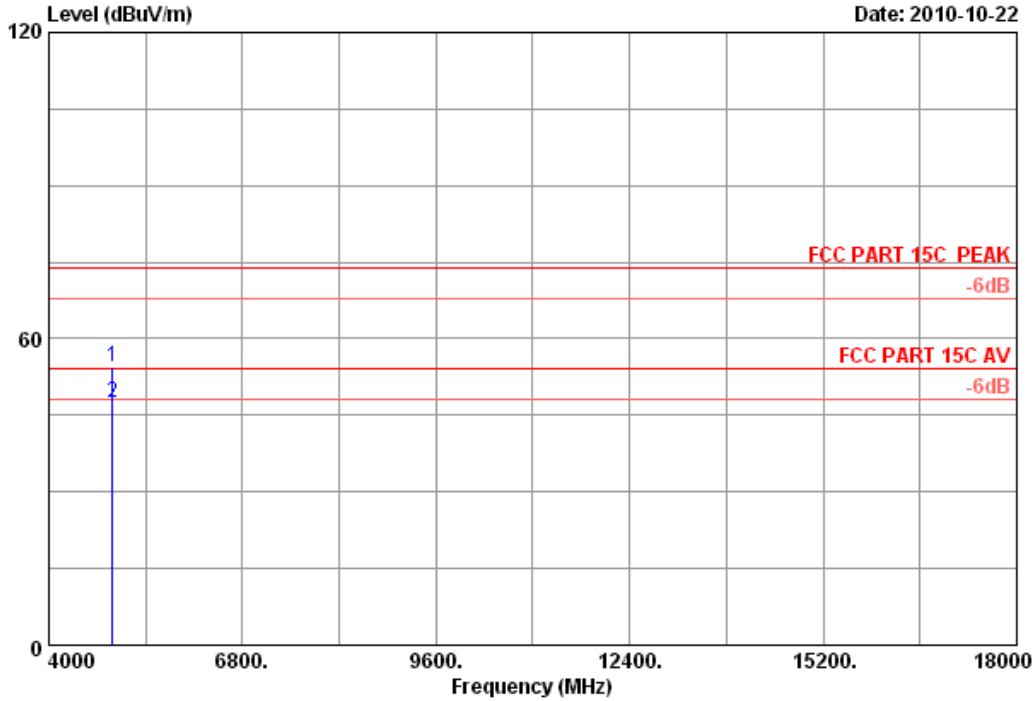


Site no. : RF Chamber Data no. : 31
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL



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Data: 32 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 32
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4924.000 | 34.49 | 10.76 | 34.98 | 44.26 | 54.53 | 74.00 | 19.47 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.16 | 47.43 | 54.00 | 6.57 | Average |

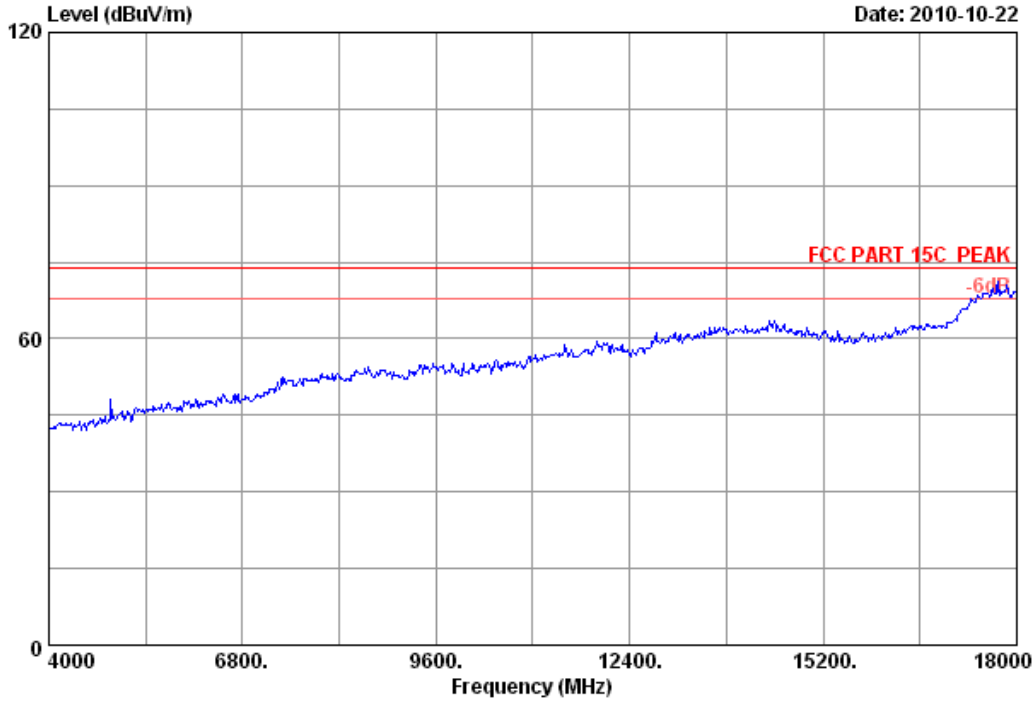
Remarks:

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: 33 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

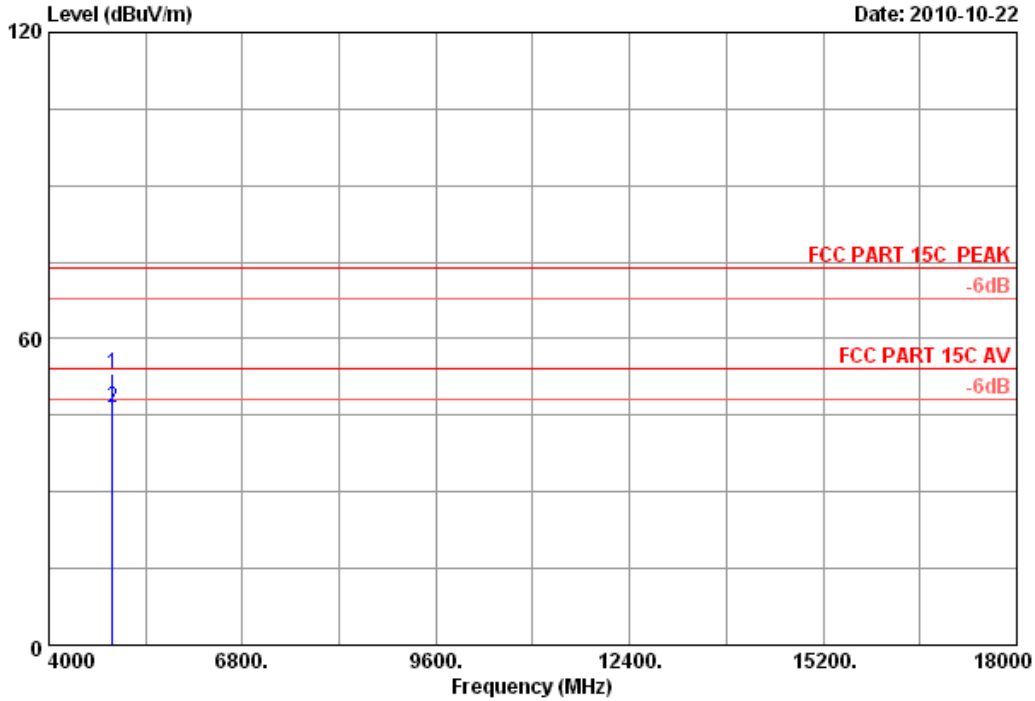


| | | | |
|-------------|--|-----------|--------------|
| Site no. | : RF Chamber | Data no. | : 33 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH11 2462MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_VERTICAL | | |



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Site no. : RF Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 42.96 | 53.23 | 74.00 | 20.77 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 36.28 | 46.55 | 54.00 | 7.45 | Average |

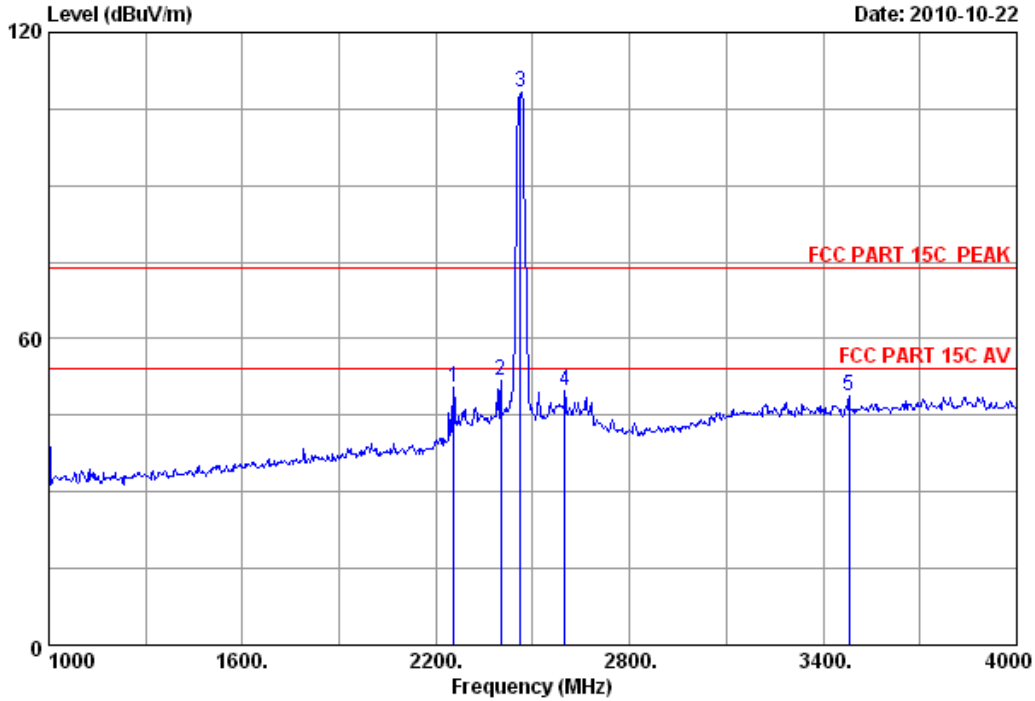
Remarks:

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: 35 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 35
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2254.000 | 29.36 | 7.12 | 36.65 | 50.54 | 50.37 | 74.00 | 23.63 | Peak |
| 2 | 2401.000 | 29.44 | 7.43 | 36.62 | 51.46 | 51.71 | 74.00 | 22.29 | Peak |
| 3 | 2462.000 | 29.48 | 7.54 | 36.61 | 107.90 | 108.31 | 74.00 | -34.31 | Peak |
| 4 | 2599.000 | 30.00 | 7.80 | 36.58 | 48.46 | 49.68 | 74.00 | 24.32 | Peak |
| 5 | 3481.000 | 33.26 | 9.11 | 36.03 | 42.51 | 48.85 | 74.00 | 25.15 | Peak |

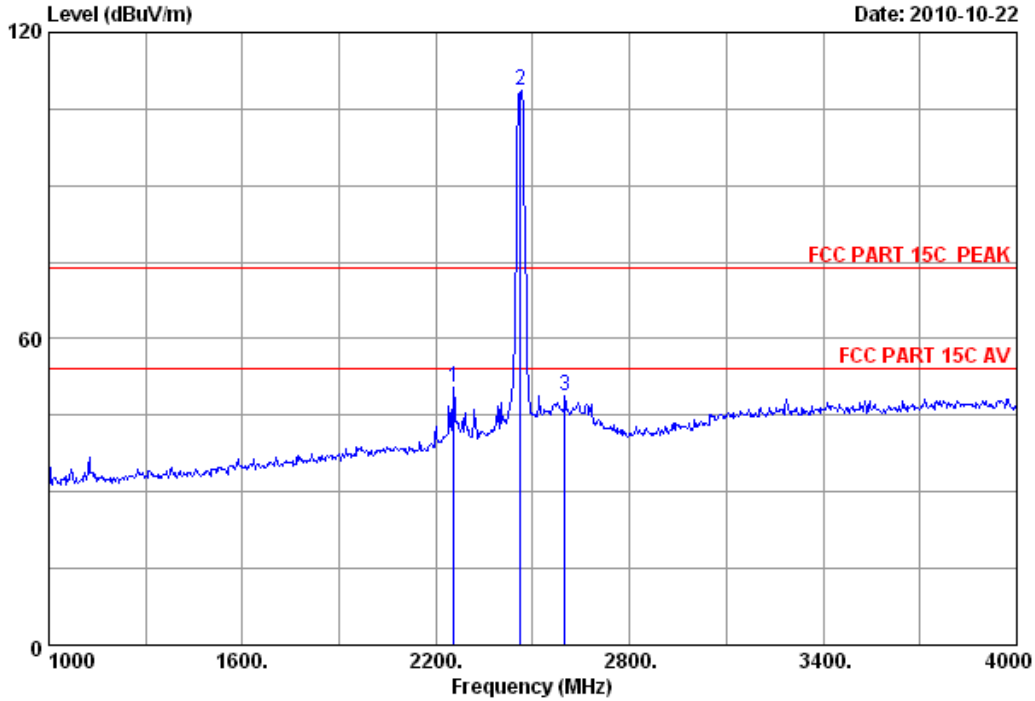
Remarks:

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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Site no. : RF Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

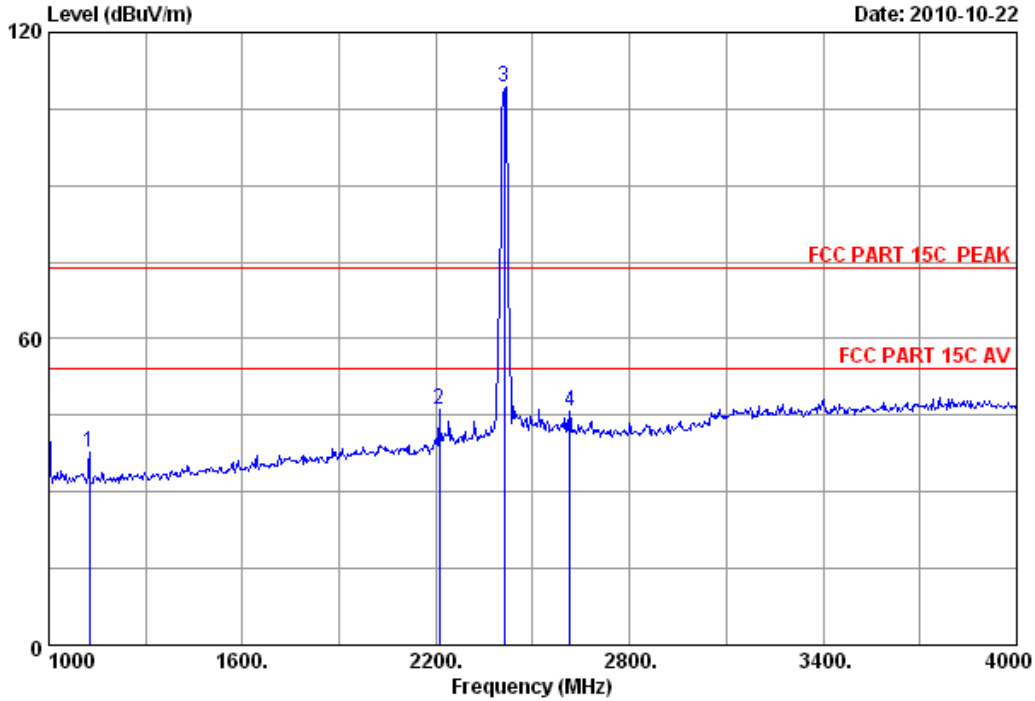
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2254.000 | 29.36 | 7.12 | 36.65 | 50.52 | 50.35 | 74.00 | 23.65 | Peak |
| 2 | 2462.000 | 29.48 | 7.54 | 36.61 | 108.27 | 108.68 | 74.00 | -34.68 | Peak |
| 3 | 2599.000 | 30.00 | 7.80 | 36.58 | 47.72 | 48.94 | 74.00 | 25.06 | 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: 37 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 37
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 1126.000 | 25.64 | 5.01 | 37.68 | 44.89 | 37.86 | 74.00 | 36.14 | Peak |
| 2 | 2209.000 | 29.32 | 7.05 | 36.66 | 46.28 | 45.99 | 74.00 | 28.01 | Peak |
| 3 | 2412.000 | 29.45 | 7.43 | 36.62 | 109.20 | 109.46 | 74.00 | -35.46 | Peak |
| 4 | 2614.000 | 30.08 | 7.80 | 36.58 | 44.62 | 45.92 | 74.00 | 28.08 | Peak |

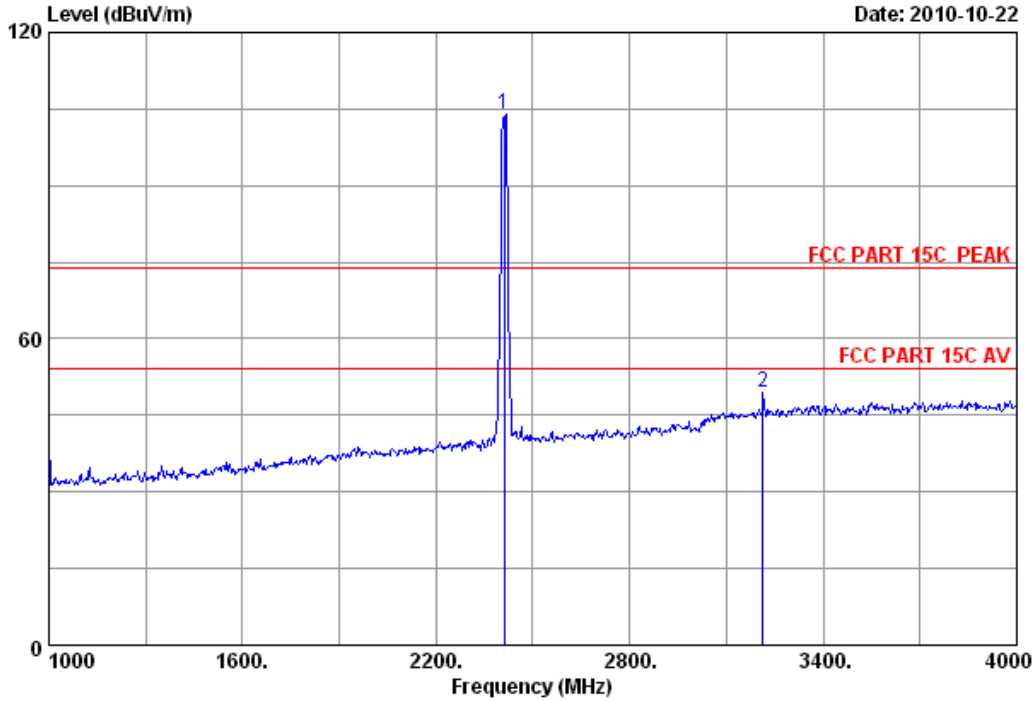
Remarks:

- 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. : RF Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2412.000 | 29.45 | 7.43 | 36.62 | 103.57 | 103.83 | 74.00 | -29.83 | Peak |
| 2 | 3214.000 | 32.54 | 8.79 | 36.28 | 44.56 | 49.61 | 74.00 | 24.39 | Peak |

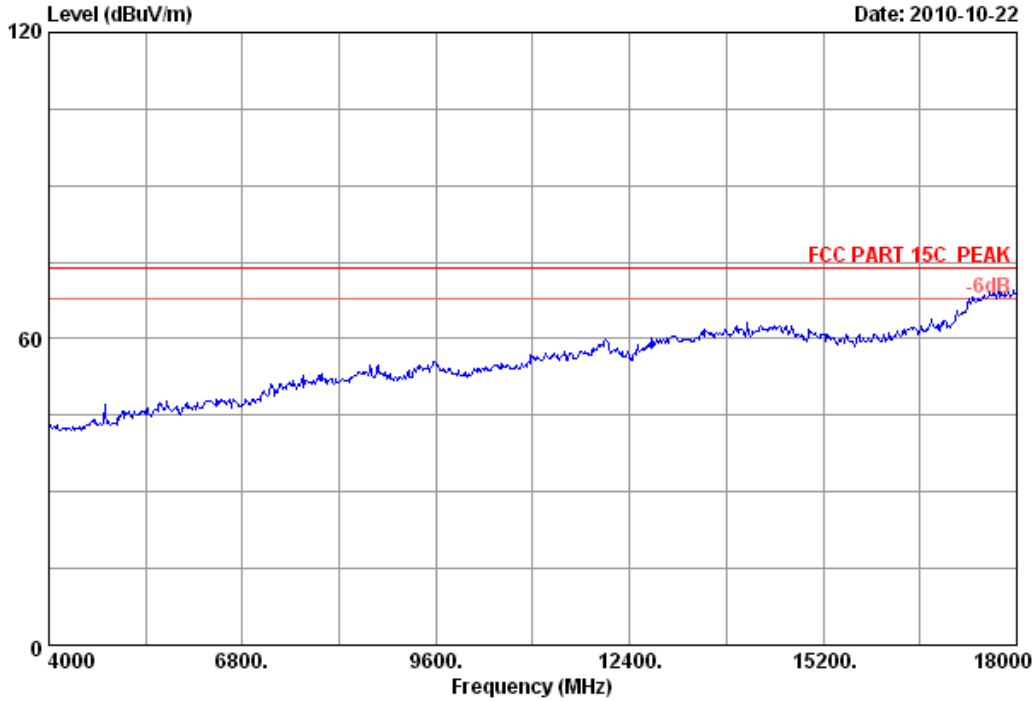
Remarks:

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: 39 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

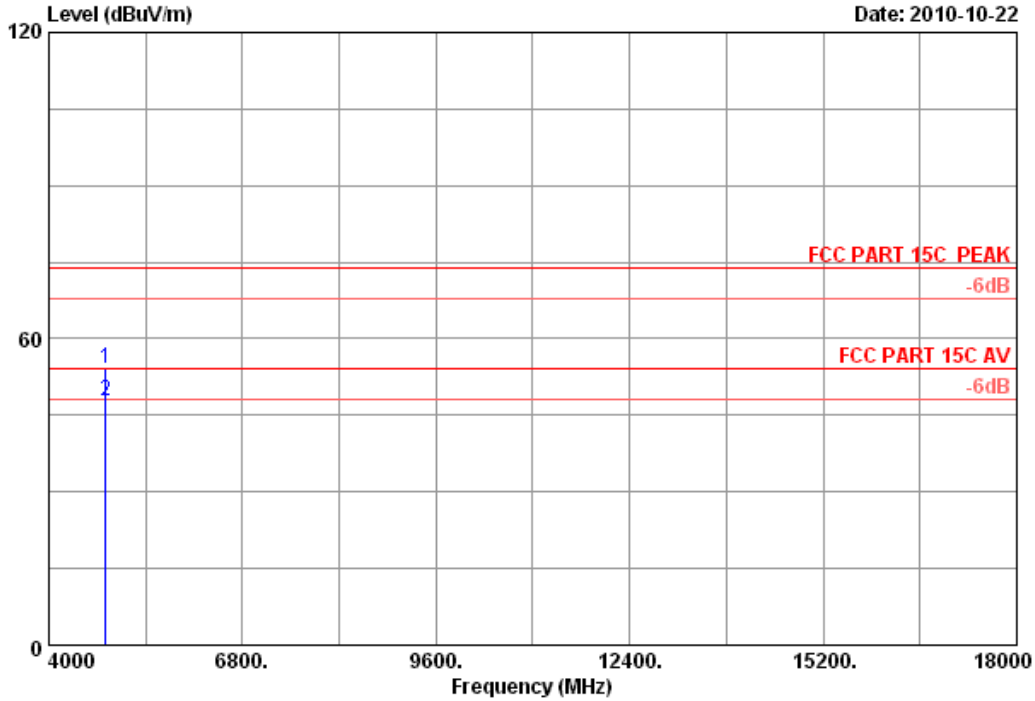


Site no. : RF Chamber Data no. : 39
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Site no. : RF Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 44.22 | 54.10 | 74.00 | 19.90 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.99 | 47.87 | 54.00 | 6.13 | Average |

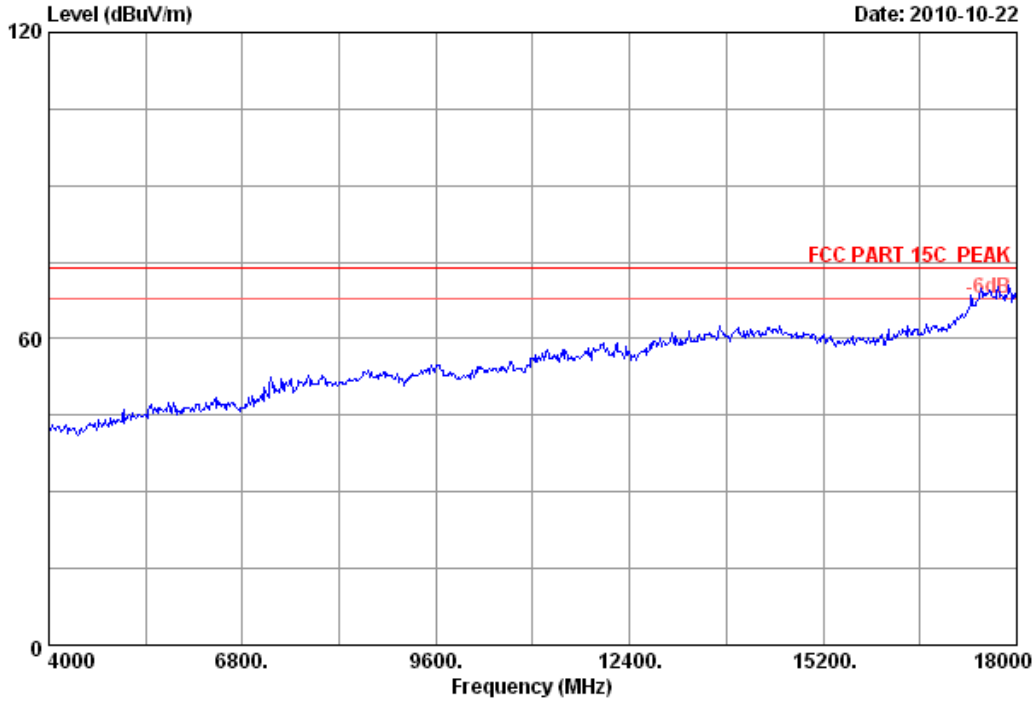
Remarks:

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: 41 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

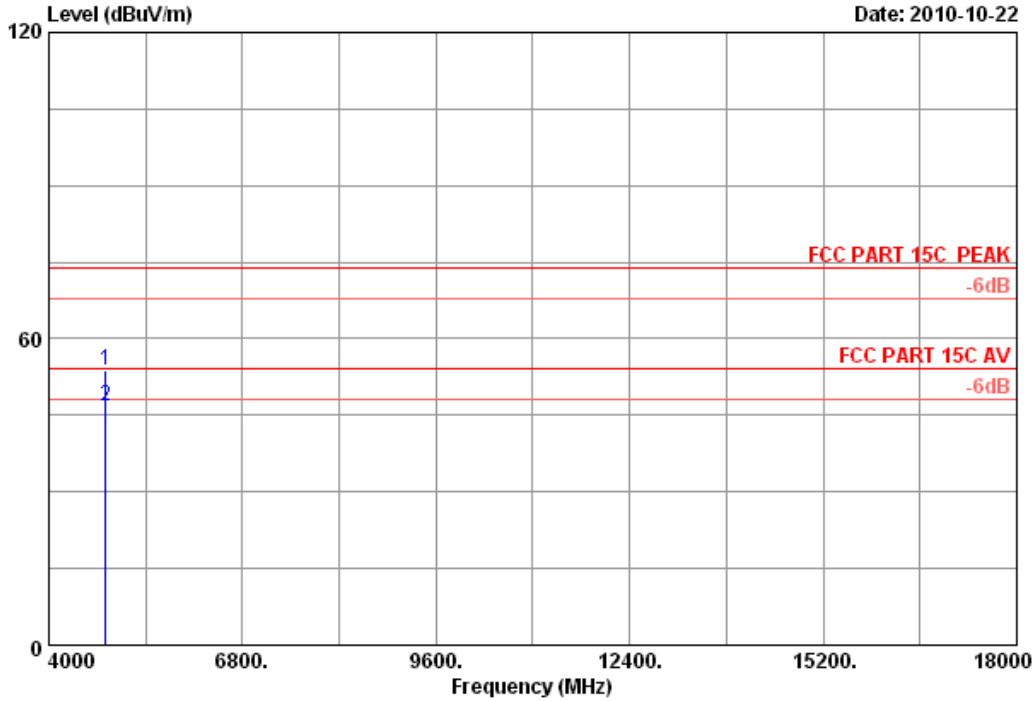


Site no. : RF Chamber Data no. : 41
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Site no. : RF Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 43.96 | 53.84 | 74.00 | 20.16 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 36.85 | 46.73 | 54.00 | 7.27 | Average |

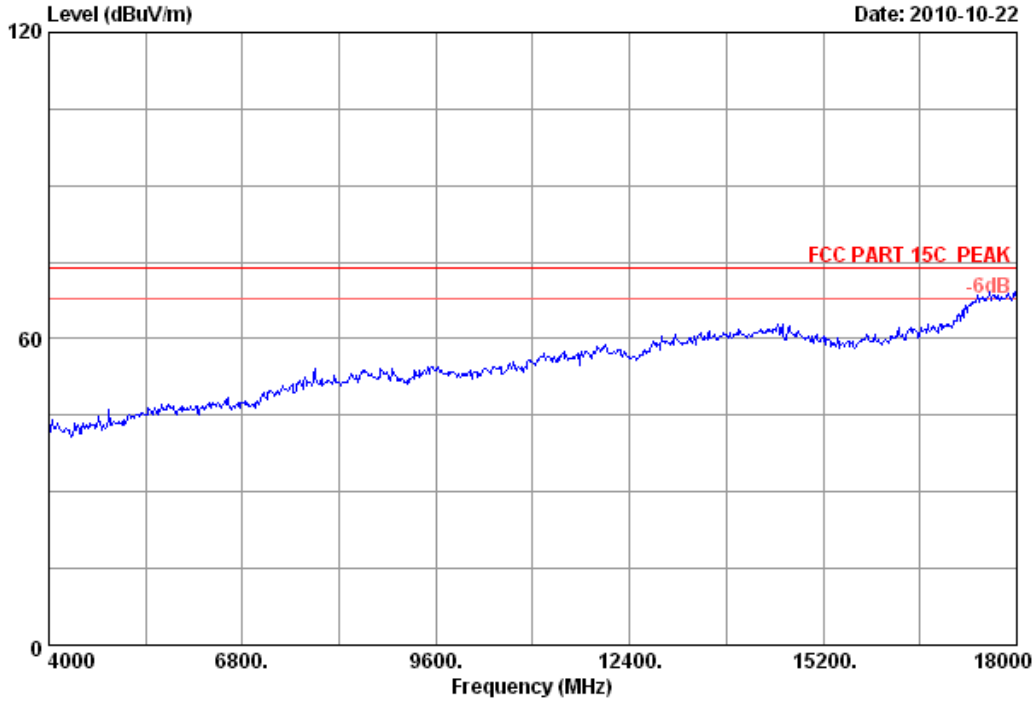
Remarks:

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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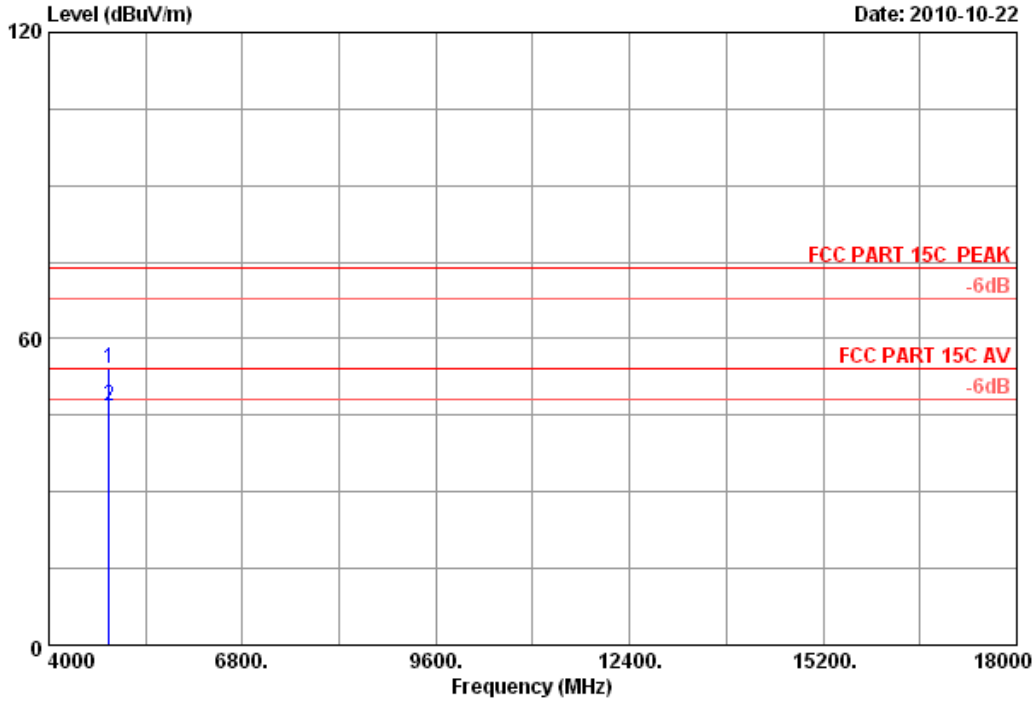


| | | | |
|-------------|--|-----------|------------|
| Site no. | : RF Chamber | Data no. | : 43 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : VERTICAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH6 2437MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_HORIZONTAL | | |



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Site no. : RF Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 43.98 | 54.05 | 74.00 | 19.95 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.76 | 46.83 | 54.00 | 7.17 | Average |

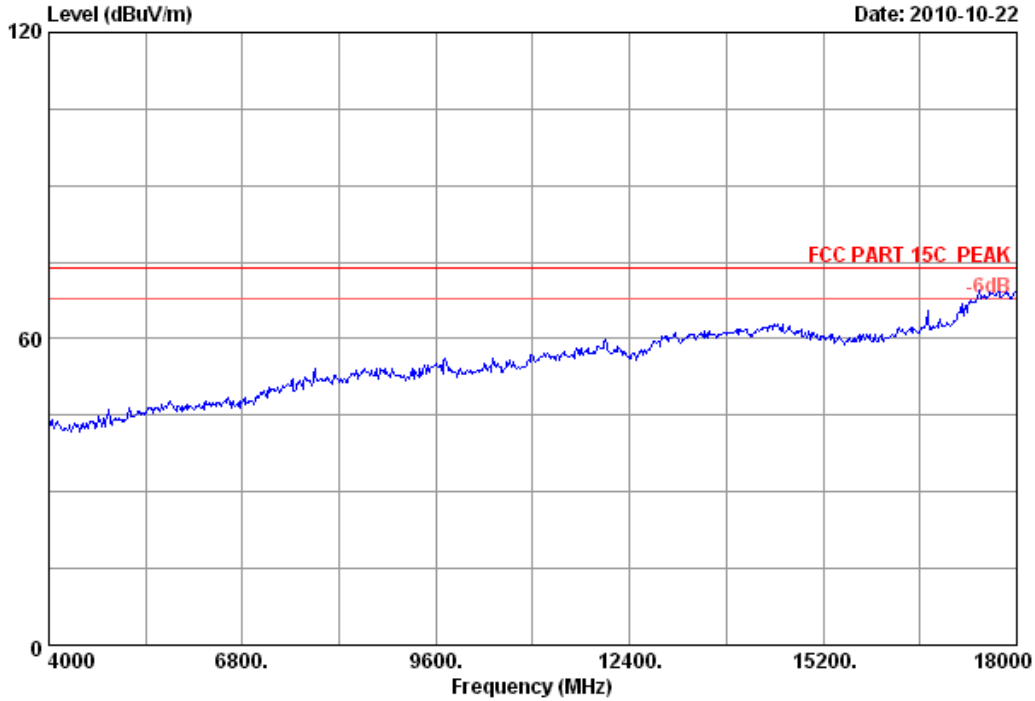
Remarks:

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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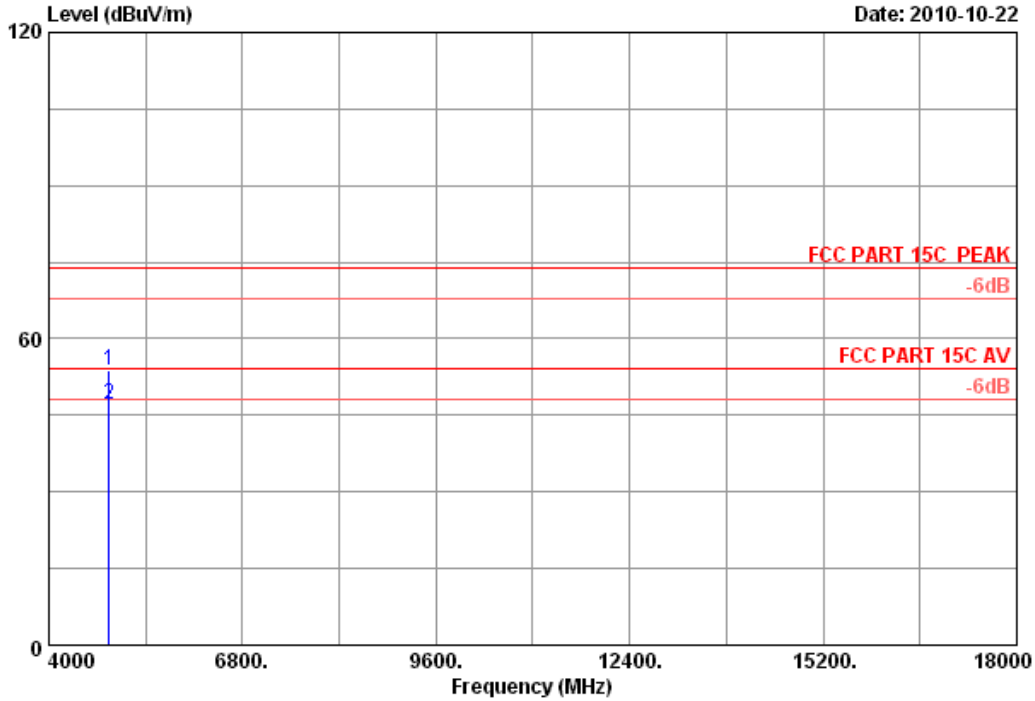


Site no. : RF Chamber Data no. : 45
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Site no. : RF Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.41 | 10.69 | 35.03 | 43.85 | 53.92 | 74.00 | 20.08 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.90 | 46.97 | 54.00 | 7.03 | Average |

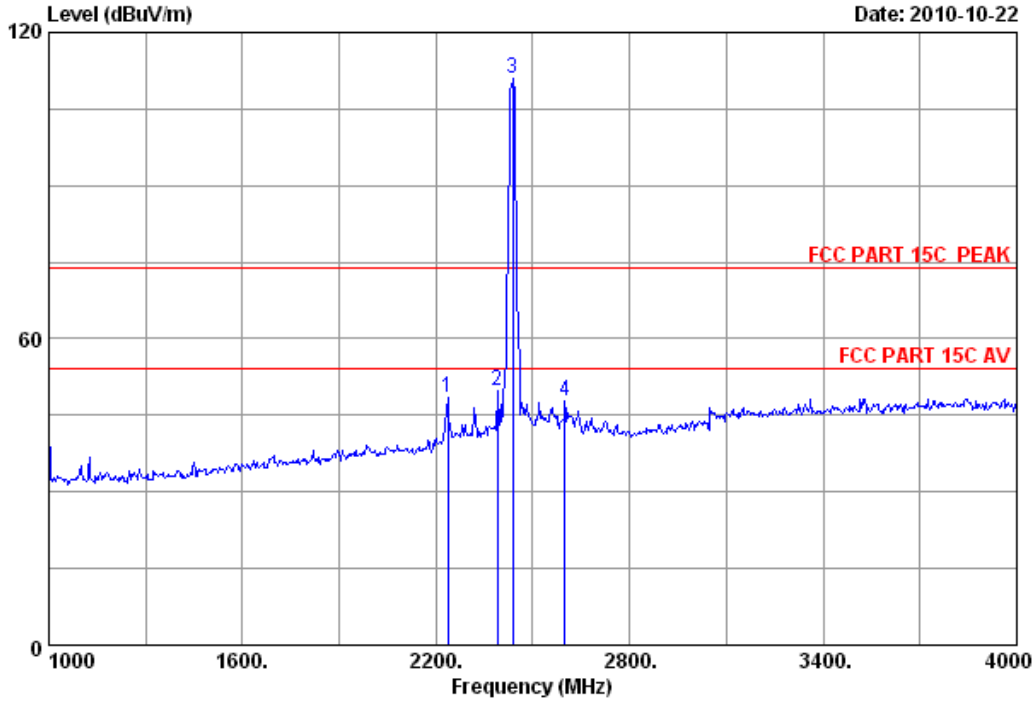
Remarks:

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. : RF Chamber Data no. : 47
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2236.000 | 29.34 | 7.09 | 36.65 | 48.74 | 48.52 | 74.00 | 25.48 | Peak |
| 2 | 2389.000 | 29.44 | 7.39 | 36.62 | 49.67 | 49.88 | 74.00 | 24.12 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 110.52 | 110.84 | 74.00 | -36.84 | Peak |
| 4 | 2599.000 | 30.00 | 7.80 | 36.58 | 46.60 | 47.82 | 74.00 | 26.18 | Peak |

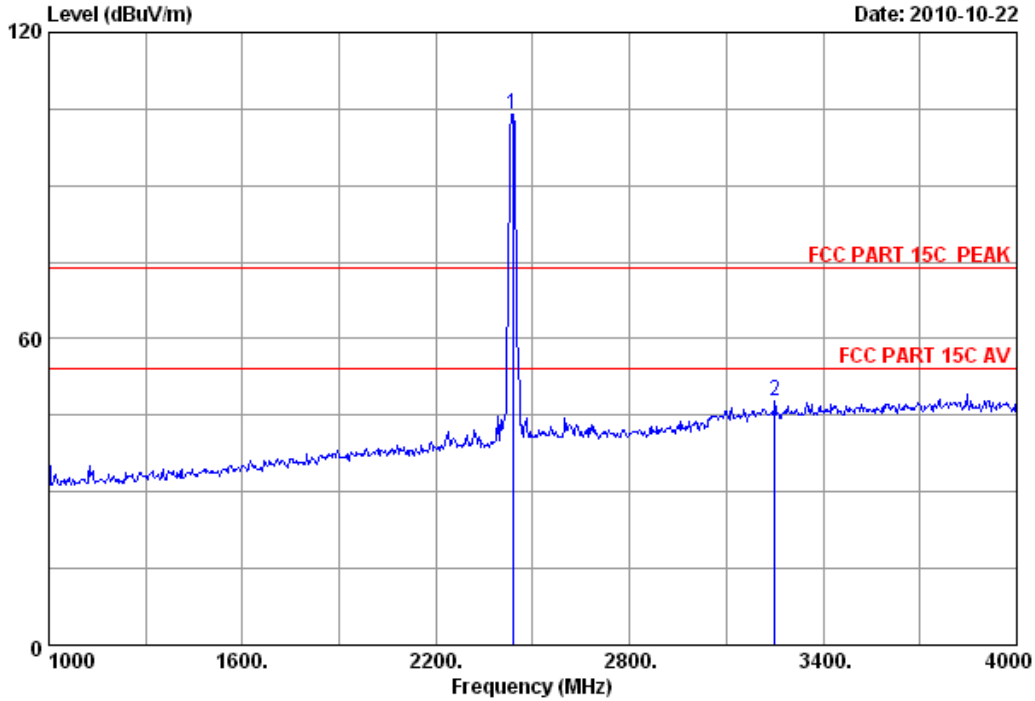
Remarks:

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: 48 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2437.000 | 29.47 | 7.46 | 36.61 | 103.78 | 104.10 | 74.00 | -30.10 | Peak |
| 2 | 3250.000 | 32.63 | 8.83 | 36.25 | 42.47 | 47.68 | 74.00 | 26.32 | Peak |

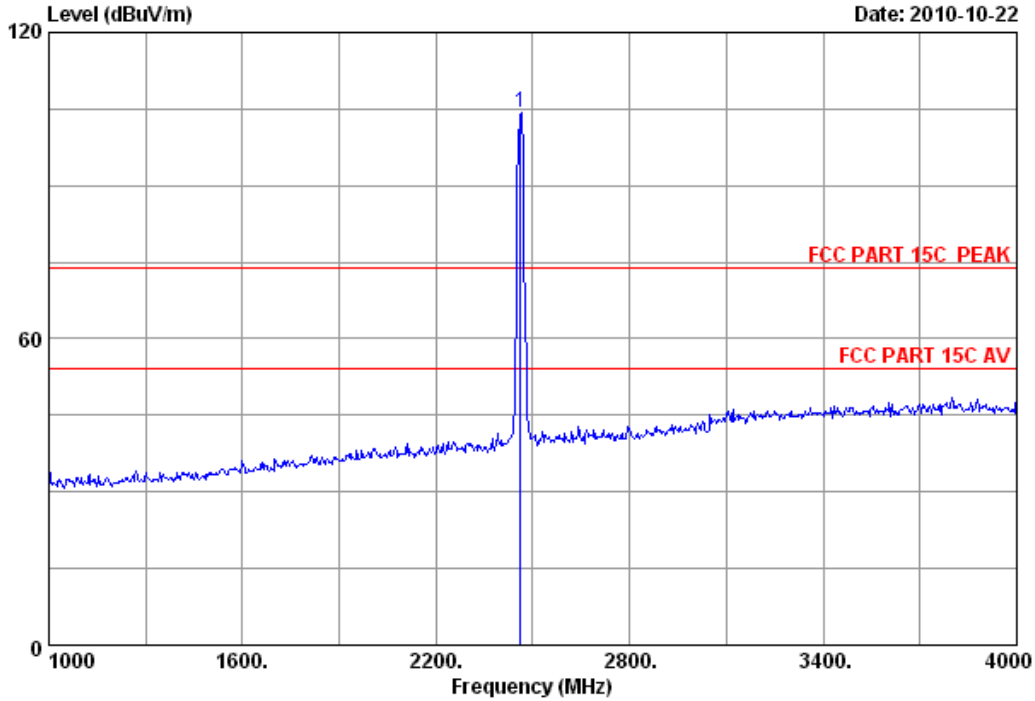
Remarks:

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: 49 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

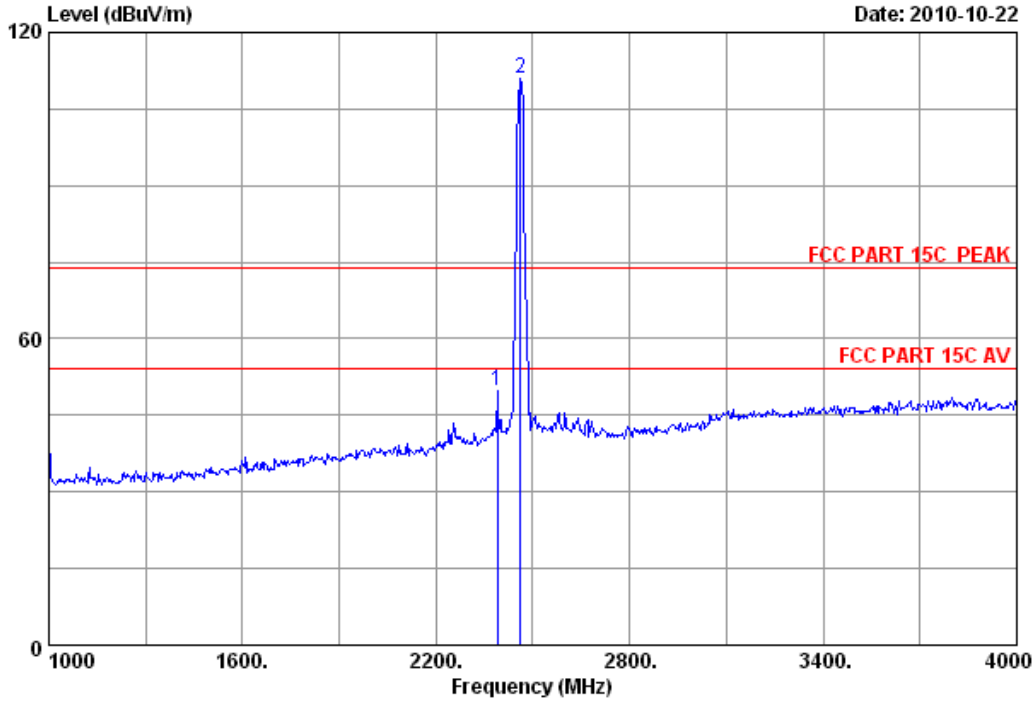
| | Ant. | Cable | Amp. | Emission | | Limits | Margin | Remark |
|------------|--------|-------|--------|----------|----------|----------|--------|--------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 2462.000 | 29.48 | 7.54 | 36.61 | 103.74 | 104.15 | 74.00 | -30.15 | 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: 50 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2389.000 | 29.44 | 7.39 | 36.62 | 49.45 | 49.66 | 74.00 | 24.34 | Peak |
| 2 | 2462.000 | 29.48 | 7.54 | 36.61 | 110.52 | 110.93 | 74.00 | -36.93 | Peak |

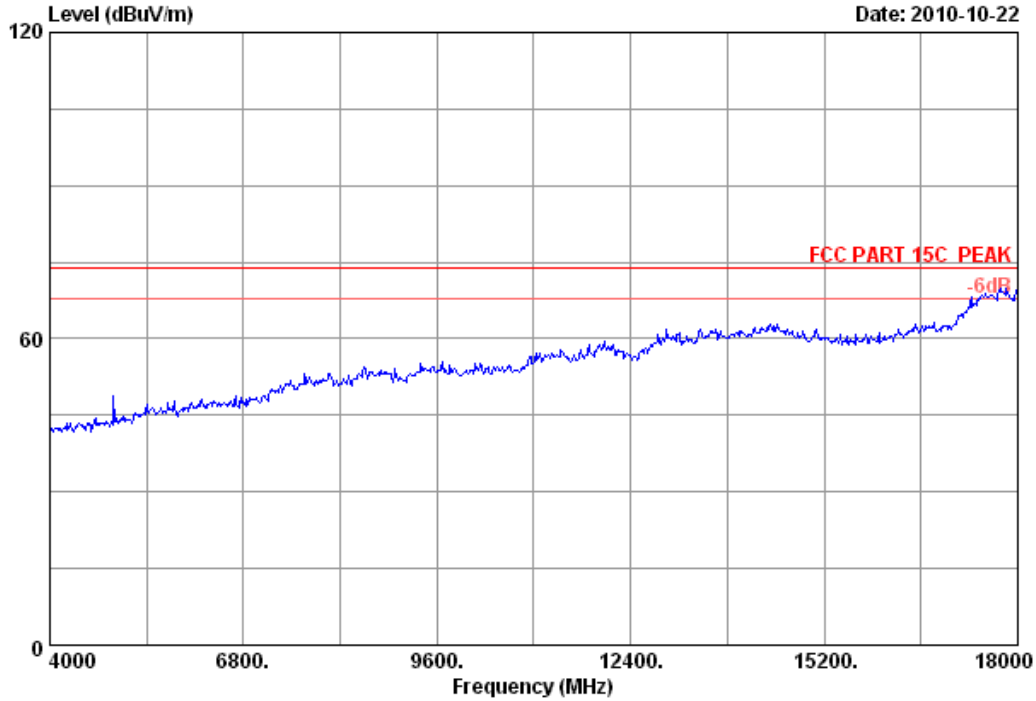
Remarks:

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: 51 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

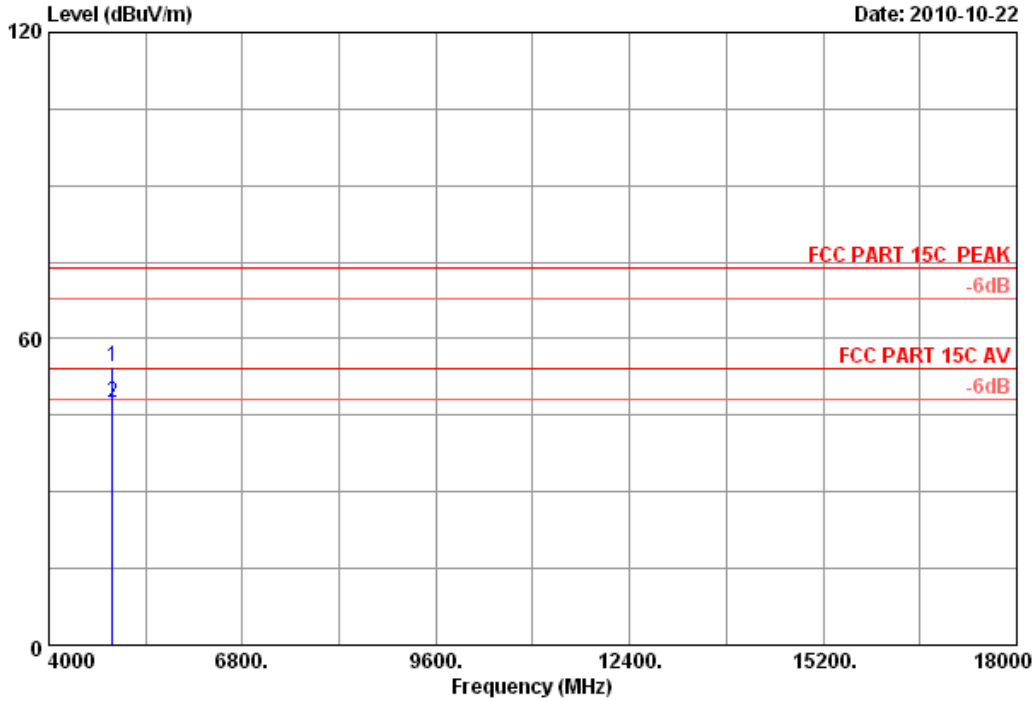


Site no. : RF Chamber Data no. : 51
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Data: 52 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 44.21 | 54.48 | 74.00 | 19.52 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.12 | 47.39 | 54.00 | 6.61 | Average |

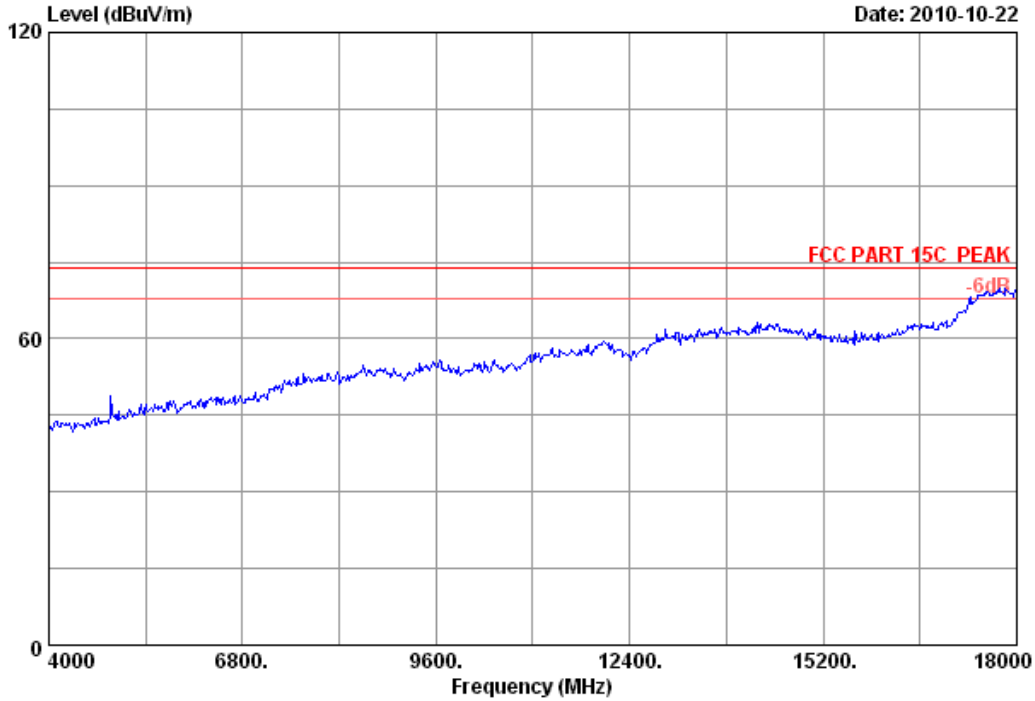
Remarks:

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: 53 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

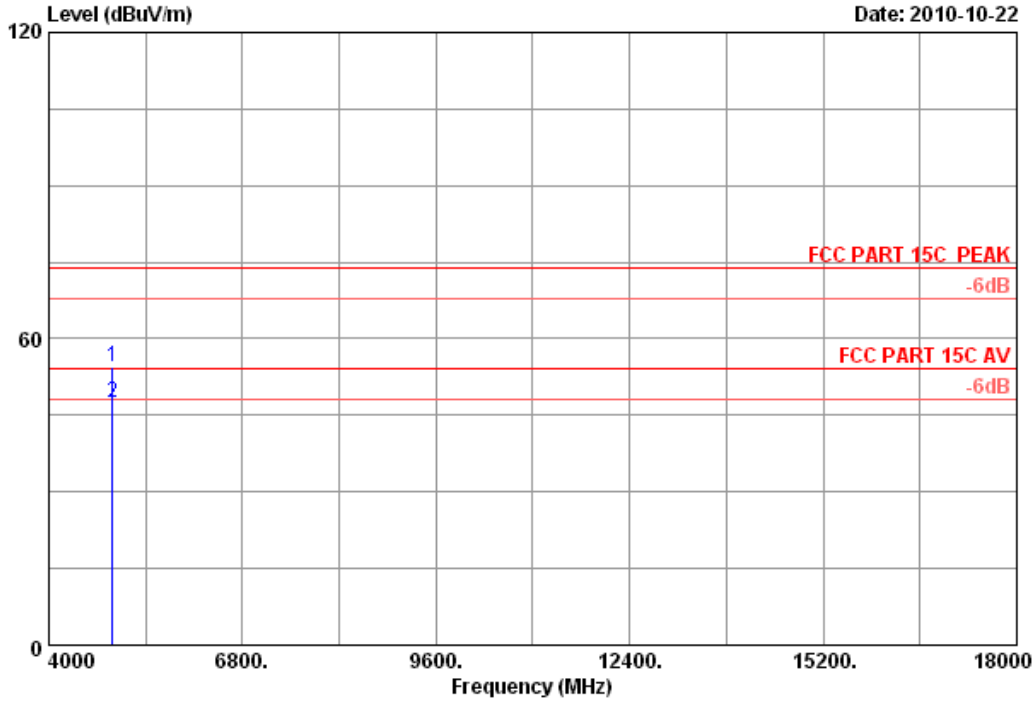


| | | | |
|-------------|--|-----------|--------------|
| Site no. | : RF Chamber | Data no. | : 53 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH11 2462MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_HORIZONTAL | | |



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Data: 54 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 44.05 | 54.32 | 74.00 | 19.68 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.30 | 47.57 | 54.00 | 6.43 | Average |

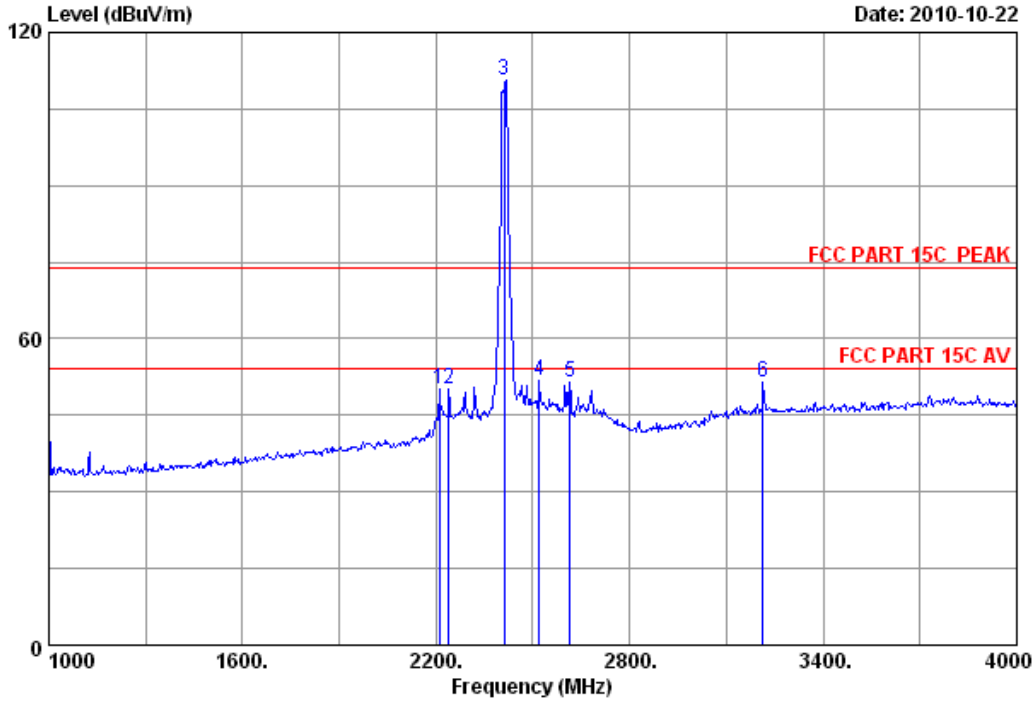
Remarks:

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. : RF Chamber Data no. : 55
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2209.000 | 29.32 | 7.05 | 36.66 | 50.34 | 50.05 | 74.00 | 23.95 | Peak |
| 2 | 2239.000 | 29.34 | 7.12 | 36.65 | 50.39 | 50.20 | 74.00 | 23.80 | Peak |
| 3 | 2412.000 | 29.45 | 7.43 | 36.62 | 110.24 | 110.50 | 74.00 | -36.50 | Peak |
| 4 | 2521.000 | 29.58 | 7.65 | 36.59 | 51.27 | 51.91 | 74.00 | 22.09 | Peak |
| 5 | 2614.000 | 30.08 | 7.80 | 36.58 | 50.08 | 51.38 | 74.00 | 22.62 | Peak |
| 6 | 3214.000 | 32.54 | 8.79 | 36.28 | 46.40 | 51.45 | 74.00 | 22.55 | Peak |

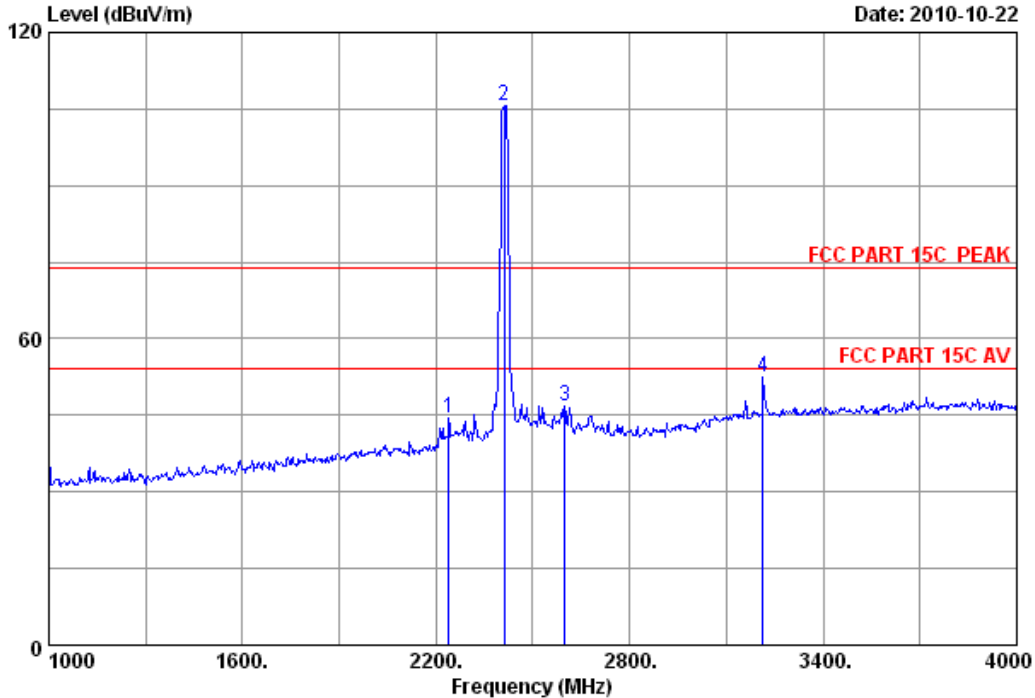
Remarks:

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: 56 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2239.000 | 29.34 | 7.12 | 36.65 | 44.68 | 44.49 | 74.00 | 29.51 | Peak |
| 2 | 2412.000 | 29.45 | 7.43 | 36.62 | 105.43 | 105.69 | 74.00 | -31.69 | Peak |
| 3 | 2599.000 | 30.00 | 7.80 | 36.58 | 45.61 | 46.83 | 74.00 | 27.17 | Peak |
| 4 | 3214.000 | 32.54 | 8.79 | 36.28 | 47.27 | 52.32 | 74.00 | 21.68 | Peak |

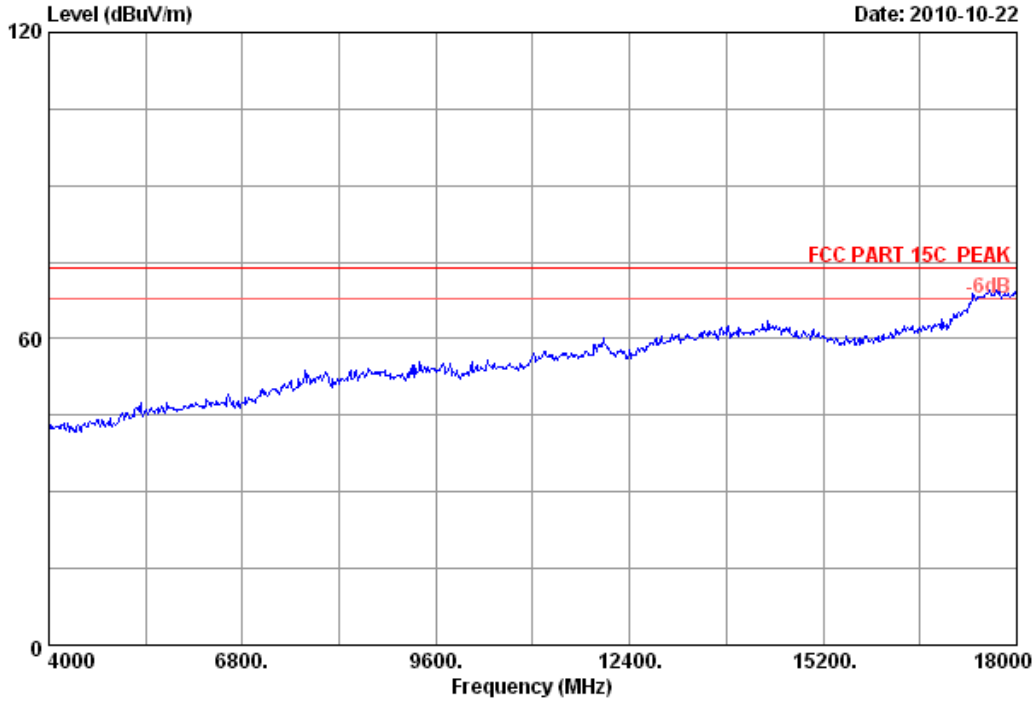
Remarks:

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: 57 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

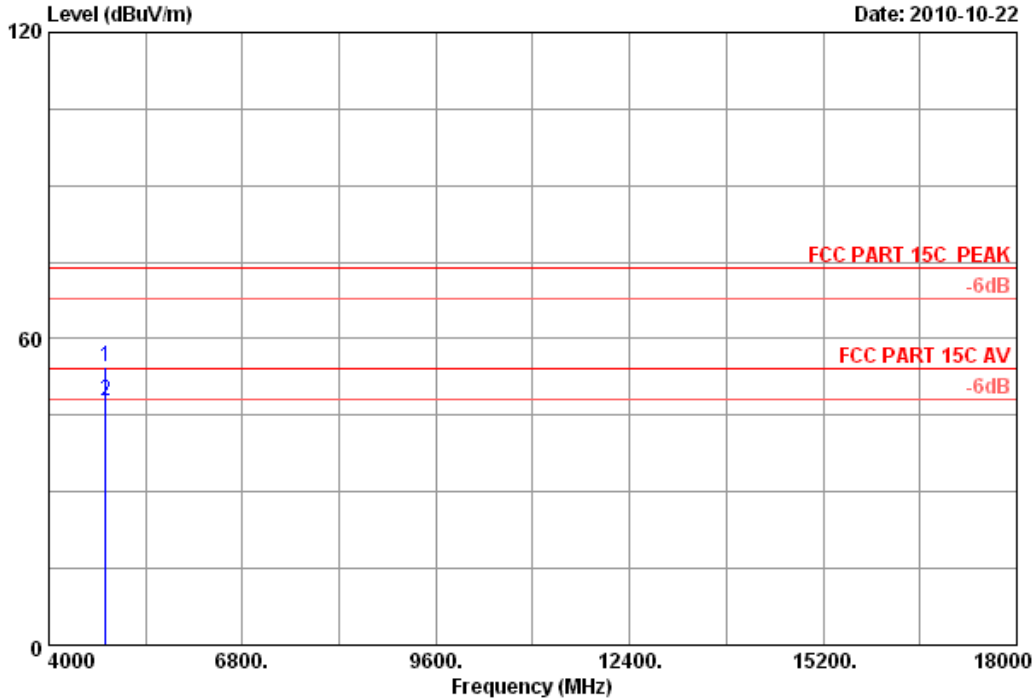


| | | | |
|-------------|--|-----------|--------------|
| Site no. | : RF Chamber | Data no. | : 57 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH1 2412MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_HORIZONTAL | | |



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Data: 58 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 44.69 | 54.57 | 74.00 | 19.43 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.85 | 47.73 | 54.00 | 6.27 | Average |

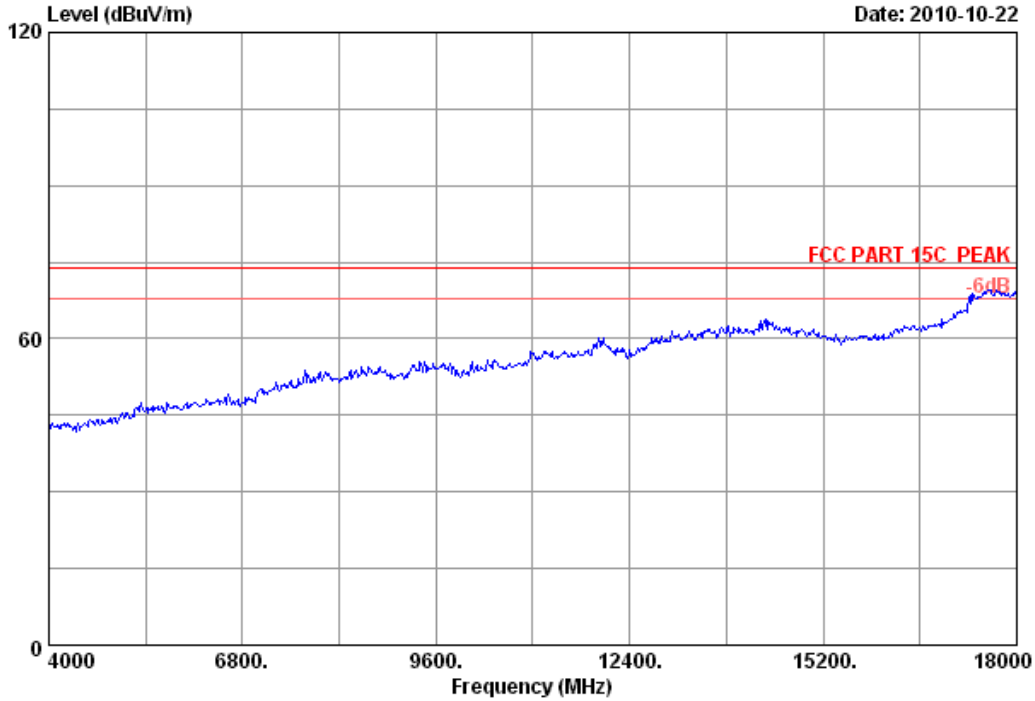
Remarks:

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: 59 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

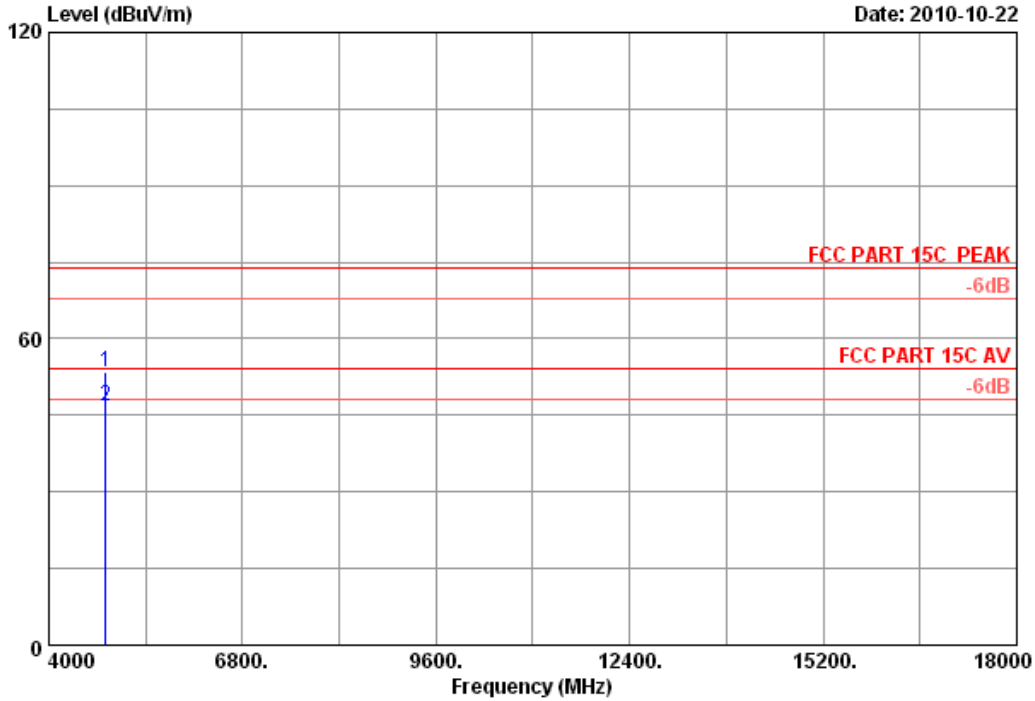


Site no. : RF Chamber Data no. : 59
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Data: 60 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 60
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.32 | 10.64 | 35.08 | 43.66 | 53.54 | 74.00 | 20.46 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 36.80 | 46.68 | 54.00 | 7.32 | Average |

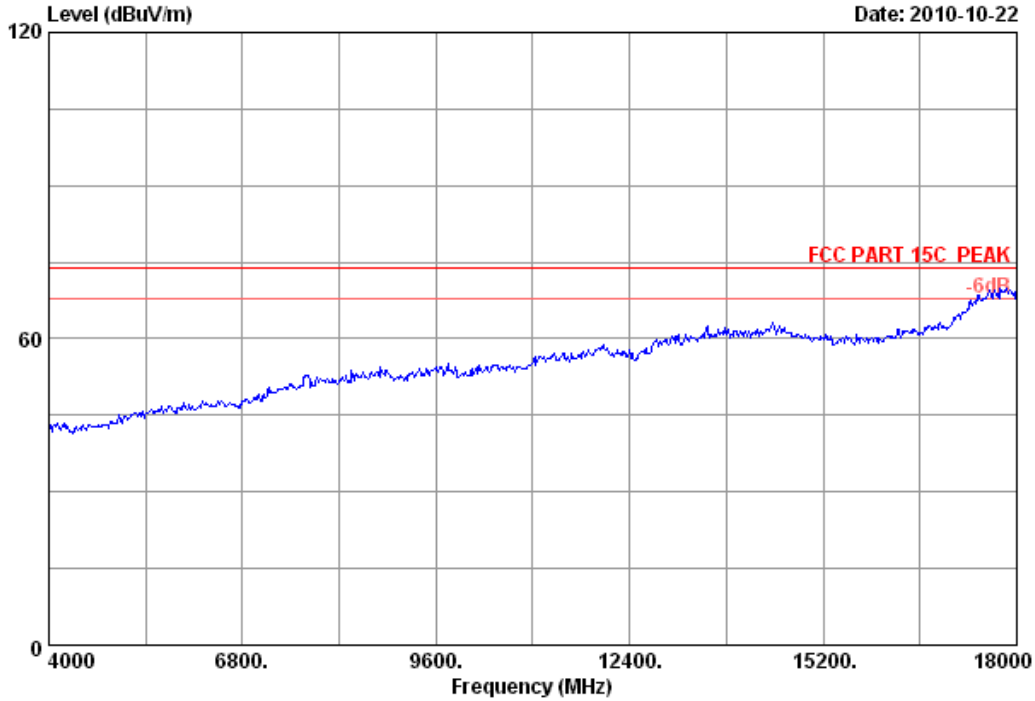
Remarks:

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: 61 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

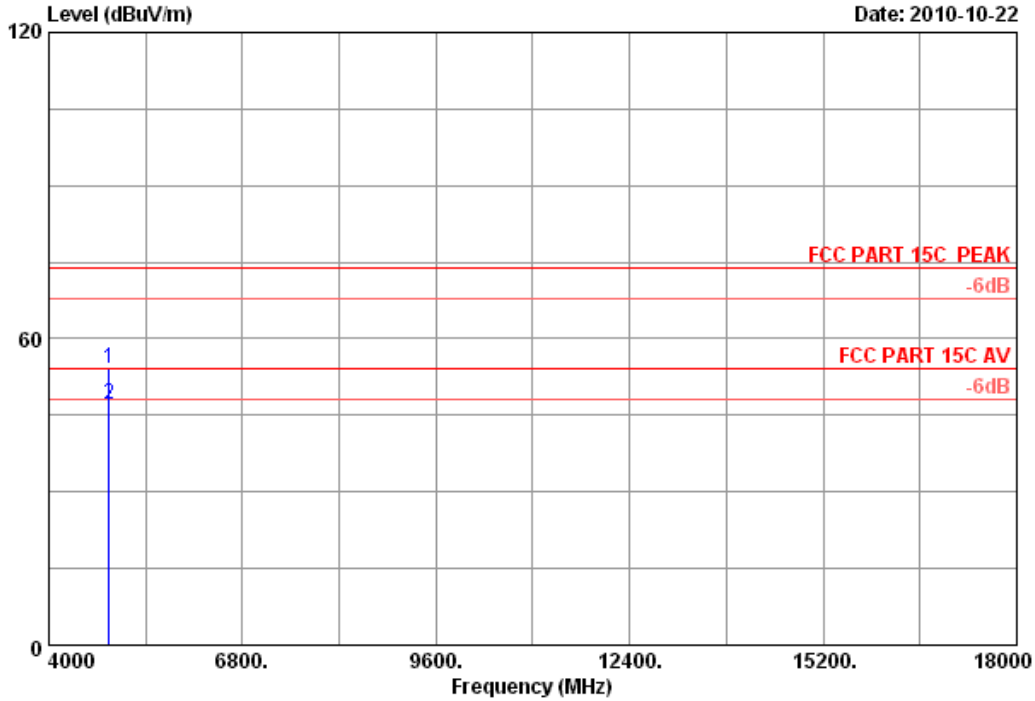


Site no. : RF Chamber Data no. : 61
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Data: 62 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 62
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.41 | 10.69 | 35.03 | 43.95 | 54.02 | 74.00 | 19.98 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.05 | 47.12 | 54.00 | 6.88 | Average |

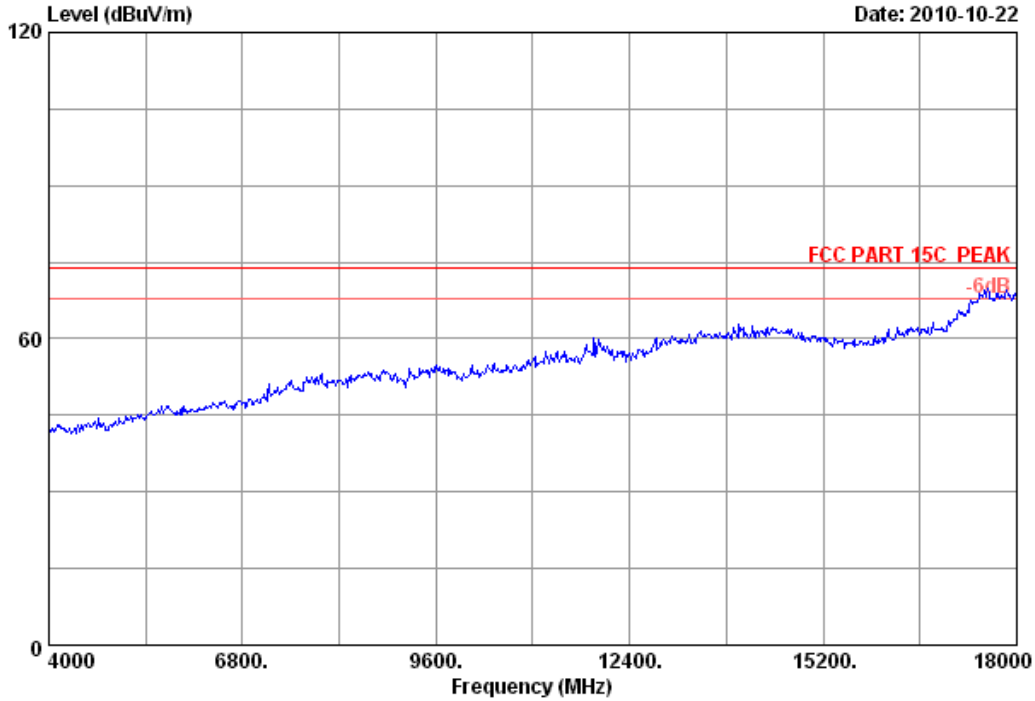
Remarks:

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: 63 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

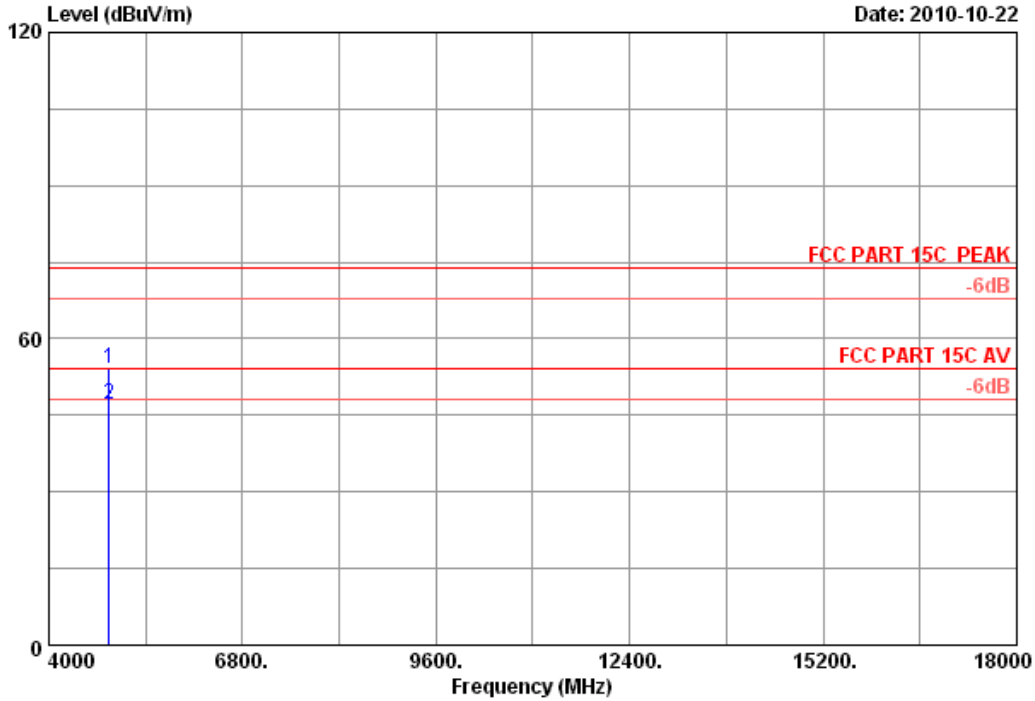


Site no. : RF Chamber Data no. : 63
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Data: 64 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 64
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 44.02 | 54.09 | 74.00 | 19.91 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.16 | 47.23 | 54.00 | 6.77 | Average |

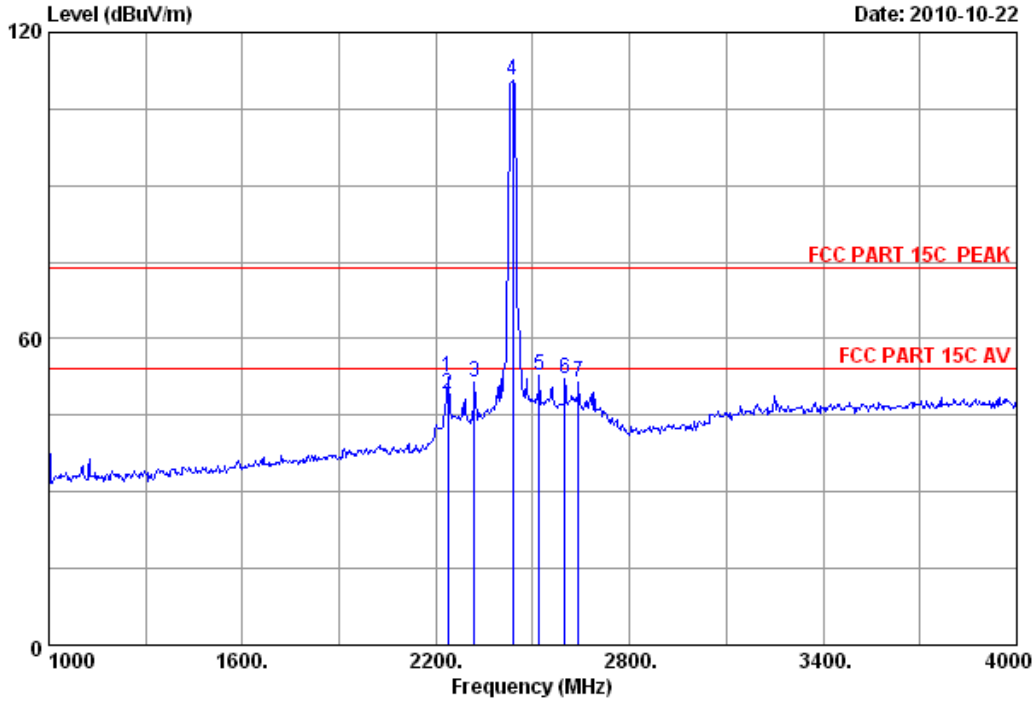
Remarks:

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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Postcode:518057

Data: 65 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 65
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 2236.000 | 29.34 | 7.09 | 36.65 | 52.59 | 52.37 | 74.00 | 21.63 | Peak |
| 2 | 2236.000 | 29.34 | 7.09 | 36.65 | 49.25 | 49.03 | 54.00 | 4.97 | Average |
| 3 | 2320.000 | 29.40 | 7.27 | 36.63 | 51.42 | 51.46 | 74.00 | 22.54 | Peak |
| 4 | 2437.000 | 29.47 | 7.46 | 36.61 | 110.18 | 110.50 | 74.00 | -36.50 | Peak |
| 5 | 2521.000 | 29.58 | 7.65 | 36.59 | 52.22 | 52.86 | 74.00 | 21.14 | Peak |
| 6 | 2599.000 | 30.00 | 7.80 | 36.58 | 50.89 | 52.11 | 74.00 | 21.89 | Peak |
| 7 | 2641.000 | 30.25 | 7.88 | 36.57 | 49.94 | 51.50 | 74.00 | 22.50 | Peak |

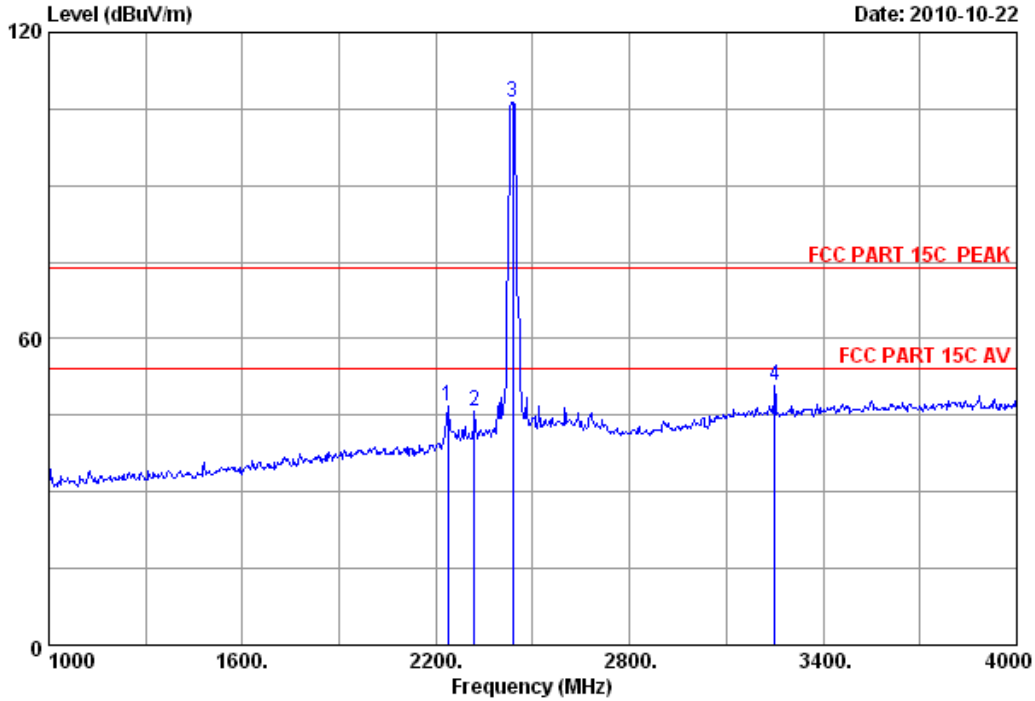
Remarks:

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: 66 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 66
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2236.000 | 29.34 | 7.09 | 36.65 | 46.85 | 46.63 | 74.00 | 27.37 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 45.79 | 45.83 | 74.00 | 28.17 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 105.87 | 106.19 | 74.00 | -32.19 | Peak |
| 4 | 3250.000 | 32.63 | 8.83 | 36.25 | 45.55 | 50.76 | 74.00 | 23.24 | Peak |

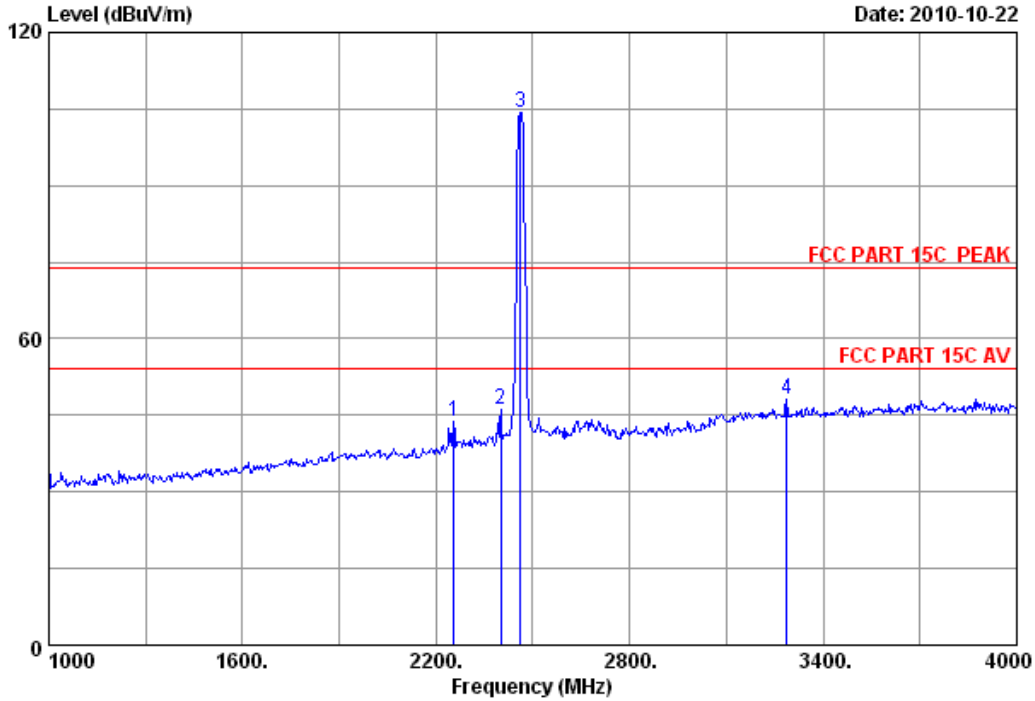
Remarks:

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: 67 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 67
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2254.000 | 29.36 | 7.12 | 36.65 | 44.11 | 43.94 | 74.00 | 30.06 | Peak |
| 2 | 2401.000 | 29.44 | 7.43 | 36.62 | 45.96 | 46.21 | 74.00 | 27.79 | Peak |
| 3 | 2462.000 | 29.48 | 7.54 | 36.61 | 103.93 | 104.34 | 74.00 | -30.34 | Peak |
| 4 | 3286.000 | 32.72 | 8.88 | 36.20 | 42.89 | 48.29 | 74.00 | 25.71 | Peak |

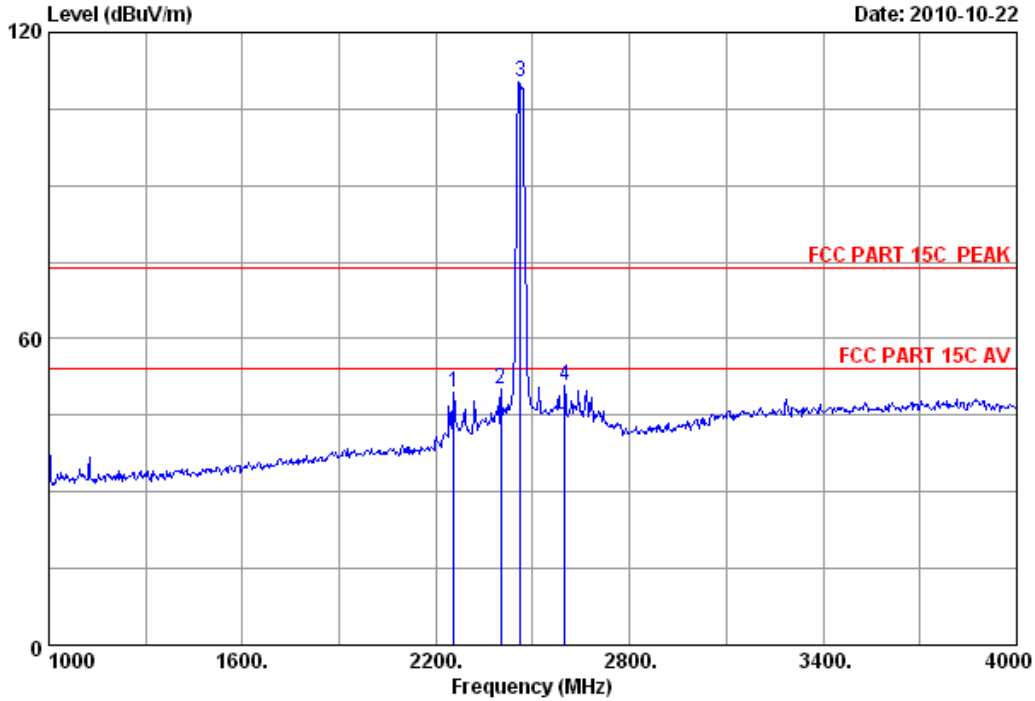
Remarks:

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. : RF Chamber Data no. : 68
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2254.000 | 29.36 | 7.12 | 36.65 | 49.52 | 49.35 | 74.00 | 24.65 | Peak |
| 2 | 2401.000 | 29.44 | 7.43 | 36.62 | 49.91 | 50.16 | 74.00 | 23.84 | Peak |
| 3 | 2462.000 | 29.48 | 7.54 | 36.61 | 109.90 | 110.31 | 74.00 | -36.31 | Peak |
| 4 | 2599.000 | 30.00 | 7.80 | 36.58 | 49.73 | 50.95 | 74.00 | 23.05 | Peak |

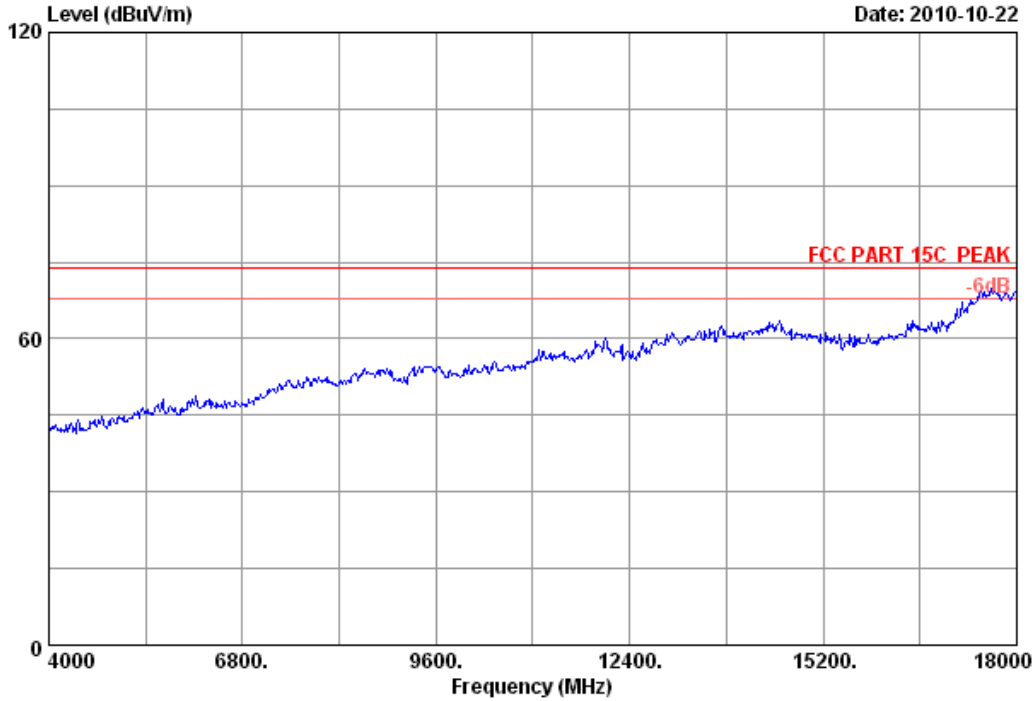
Remarks:

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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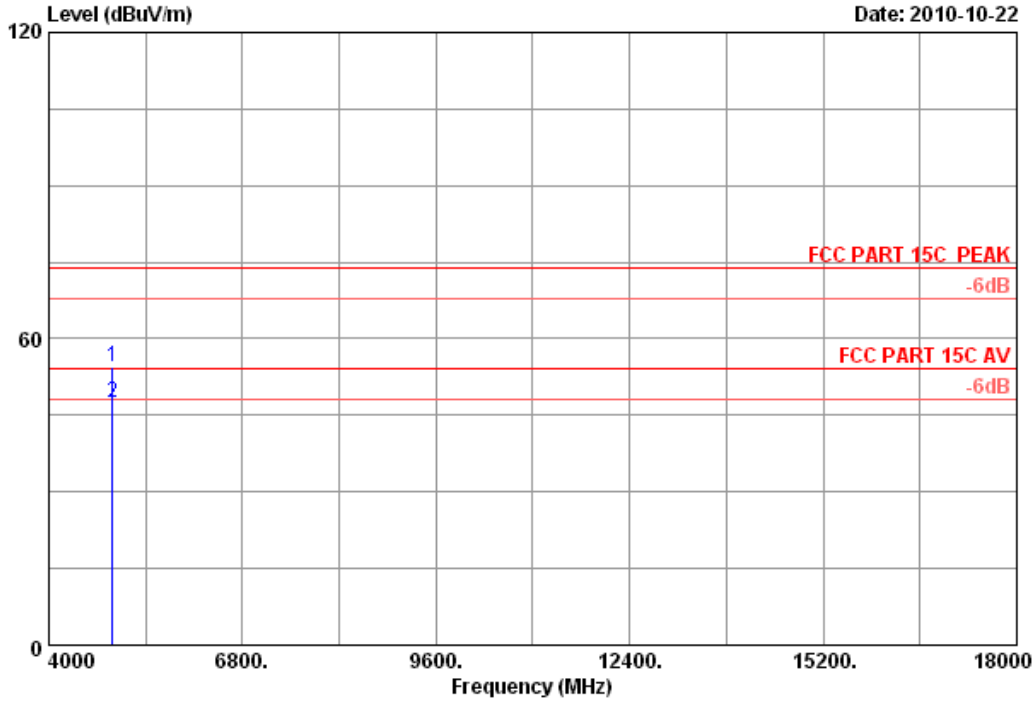


Site no. : RF Chamber Data no. : 69
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Site no. : RF Chamber Data no. : 70
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 44.23 | 54.50 | 74.00 | 19.50 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.16 | 47.43 | 54.00 | 6.57 | Average |

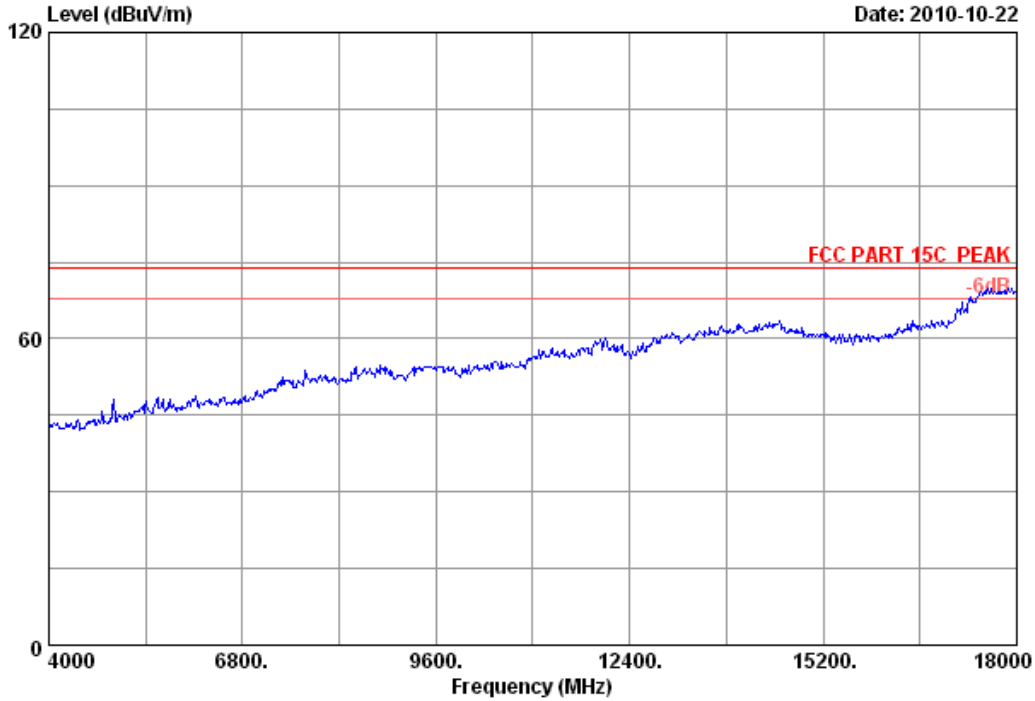
Remarks:

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: 71 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

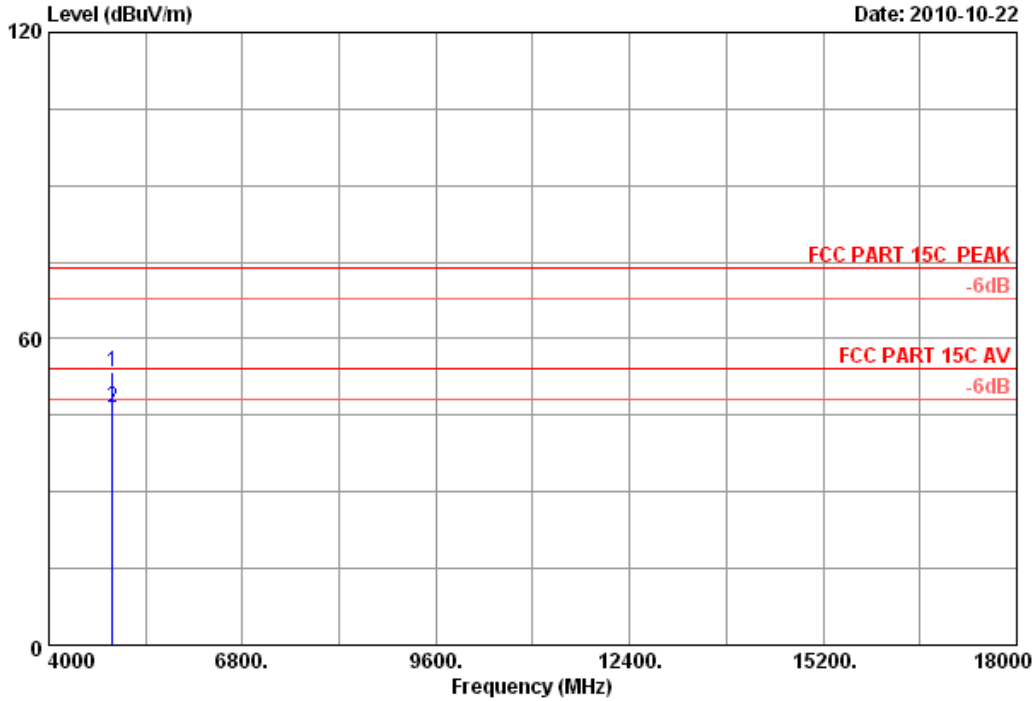


Site no. : RF Chamber Data no. : 71
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL



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Site no. : RF Chamber Data no. : 72
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 43.26 | 53.53 | 74.00 | 20.47 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 36.08 | 46.35 | 54.00 | 7.65 | Average |

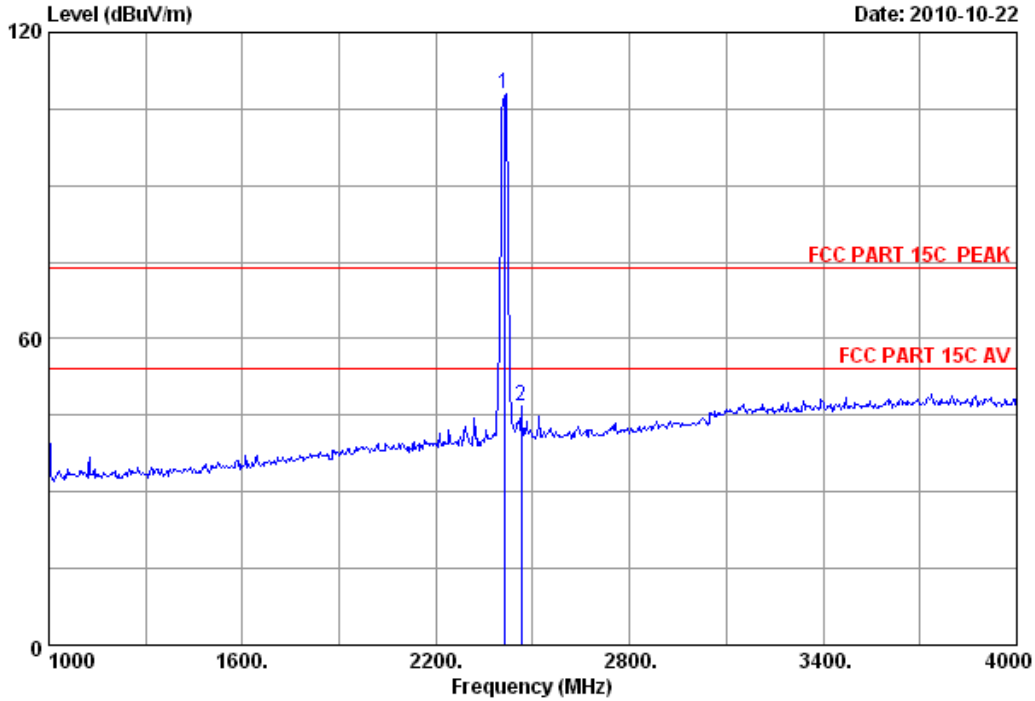
Remarks:

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: 73 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 73
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2412.000 | 29.45 | 7.43 | 36.62 | 107.56 | 107.82 | 74.00 | -33.82 | Peak |
| 2 | 2464.000 | 29.48 | 7.54 | 36.61 | 46.28 | 46.69 | 74.00 | 27.31 | Peak |

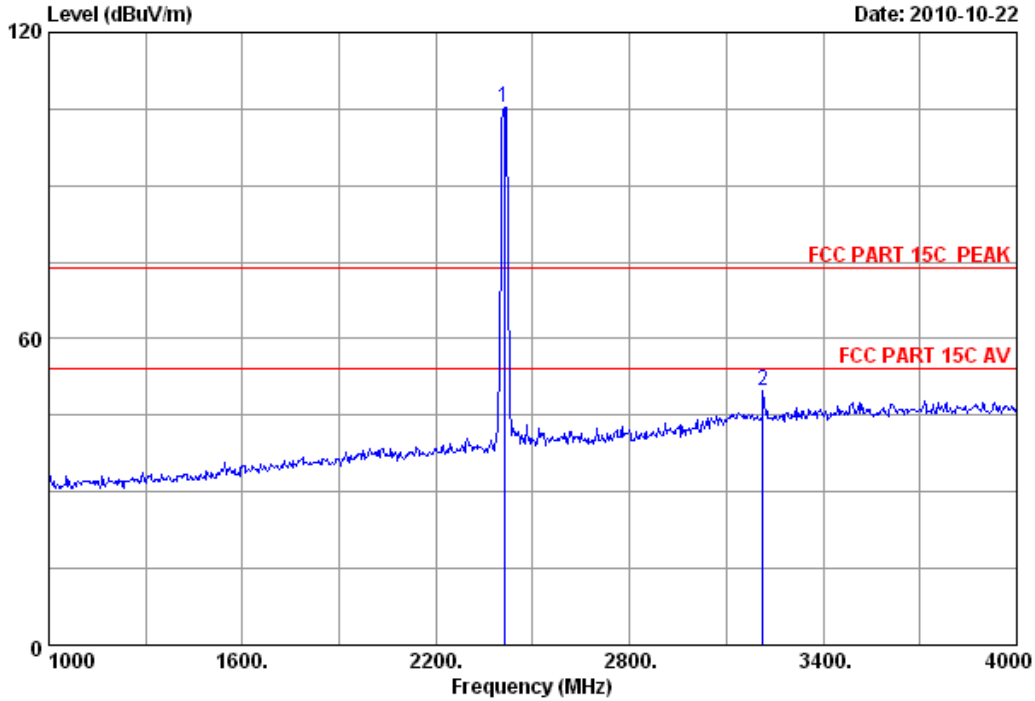
Remarks:

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. : RF Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2412.000 | 29.45 | 7.43 | 36.62 | 105.19 | 105.45 | 74.00 | -31.45 | Peak |
| 2 | 3214.000 | 32.54 | 8.79 | 36.28 | 44.60 | 49.65 | 74.00 | 24.35 | Peak |

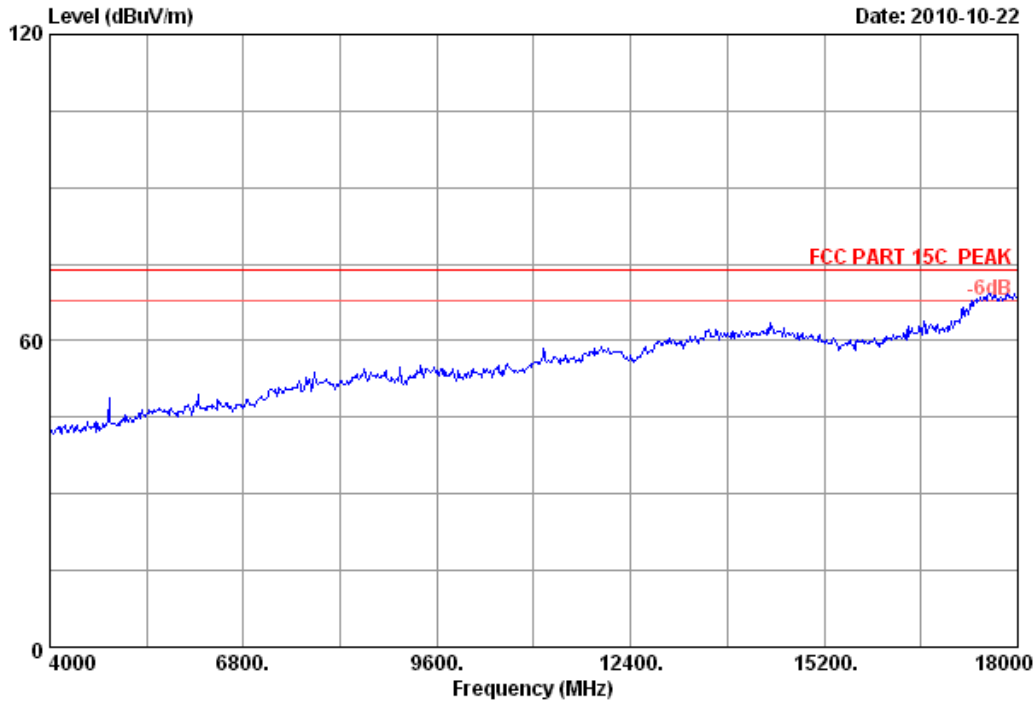
Remarks:

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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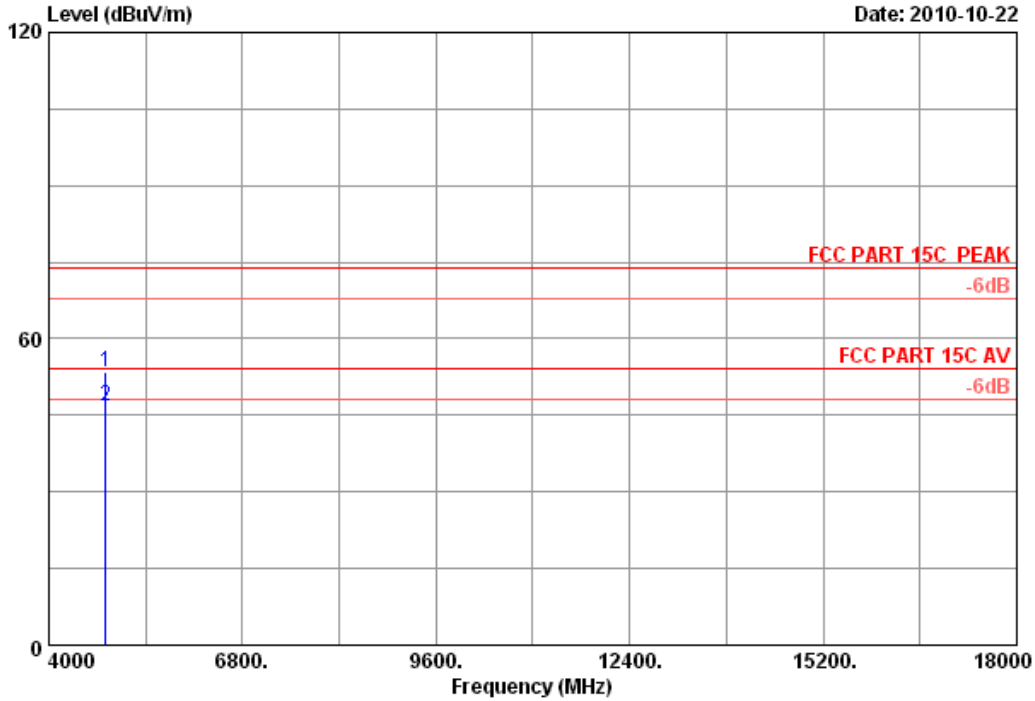


| | | | |
|-------------|--|-----------|--------------|
| Site no. | : RF Chamber | Data no. | : 75 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11b CH1 2412MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_EXTERNAL | | |



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Site no. : RF Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 43.70 | 53.58 | 74.00 | 20.42 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.07 | 46.95 | 54.00 | 7.05 | Average |

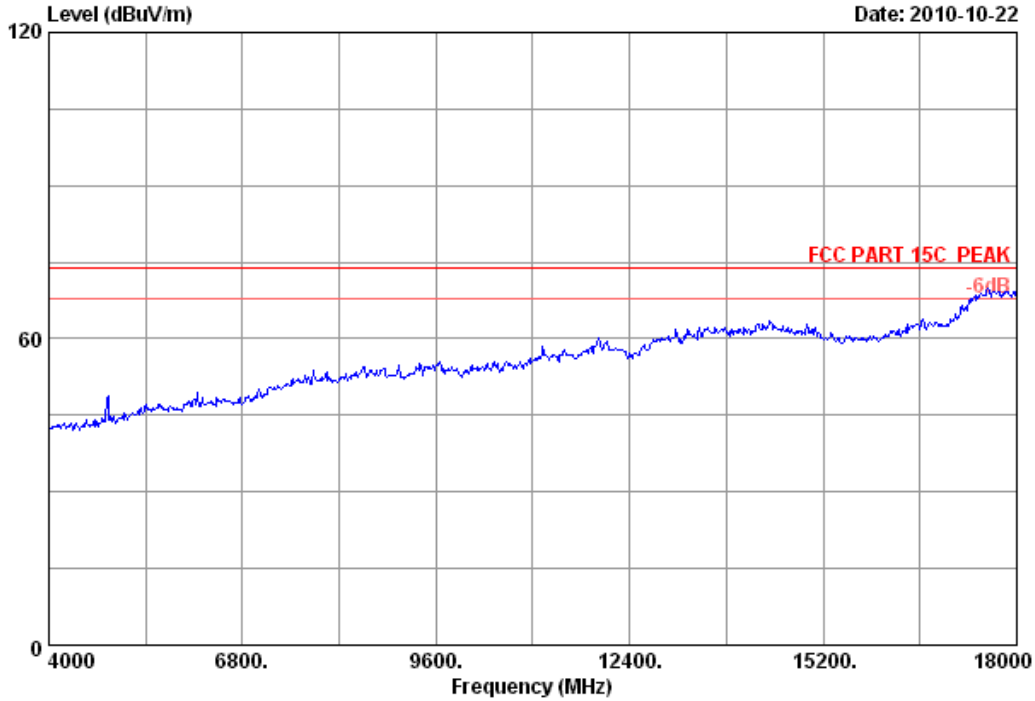
Remarks:

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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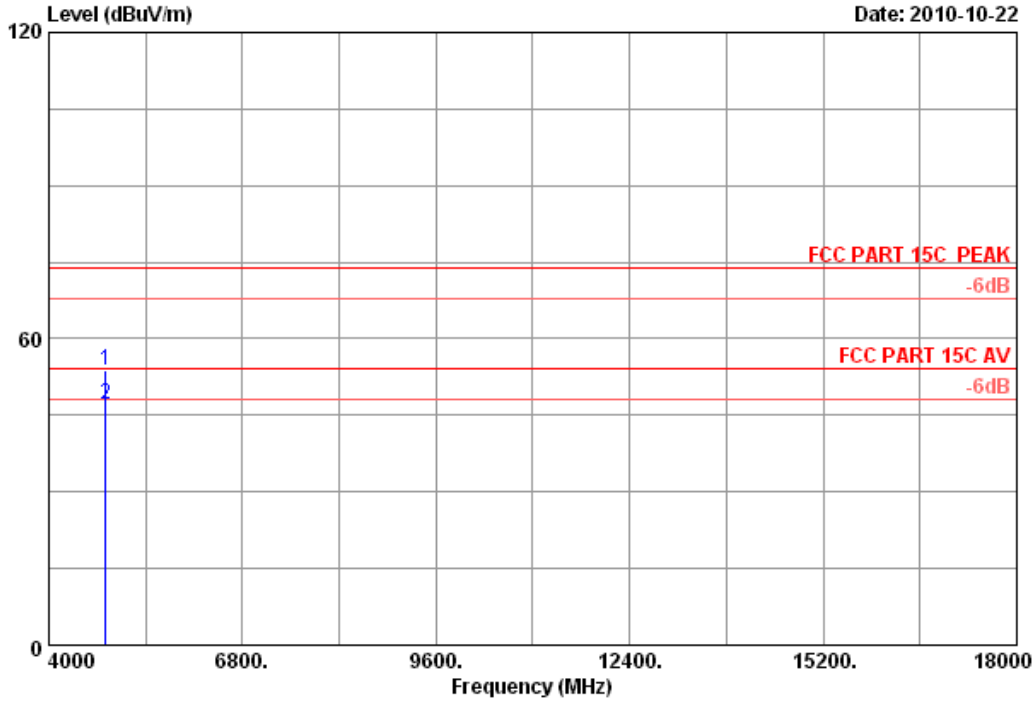


Site no. : RF Chamber Data no. : 77
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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 Postcode:518057

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Site no. : RF Chamber Data no. : 78
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 44.07 | 53.95 | 74.00 | 20.05 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.16 | 47.04 | 54.00 | 6.96 | Average |

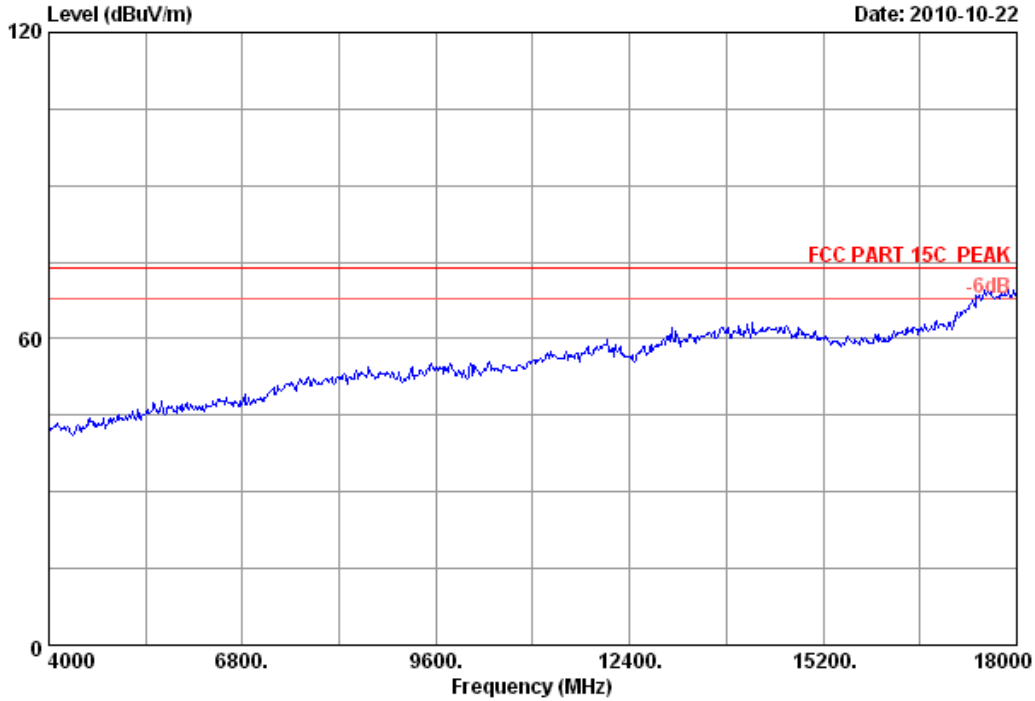
Remarks:

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: 79 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

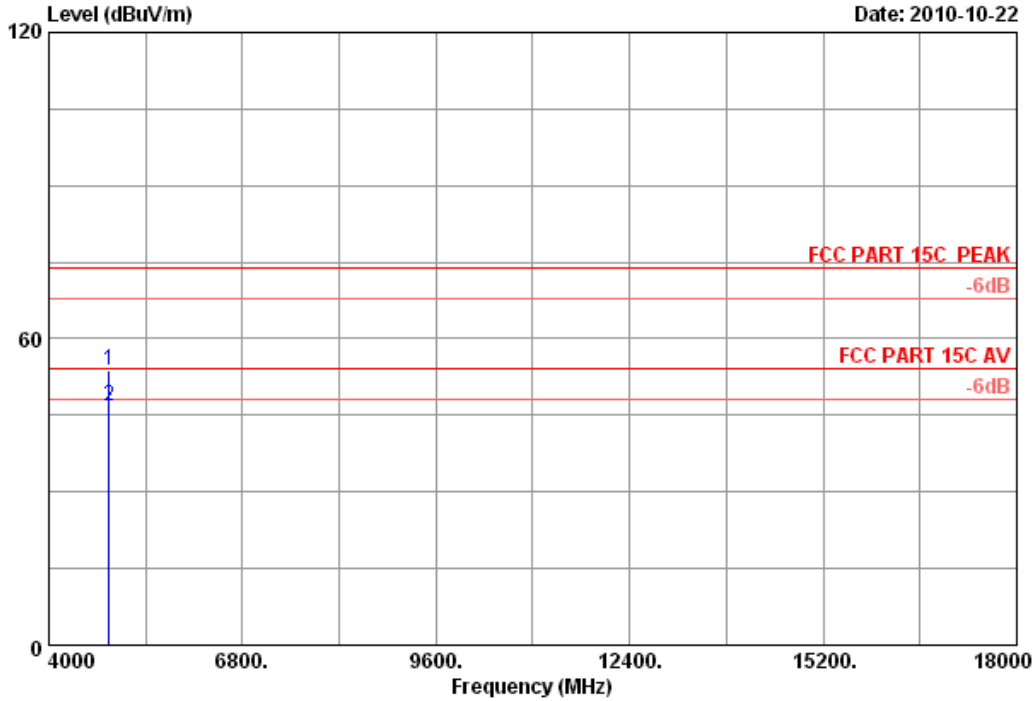


Site no. : RF Chamber Data no. : 79
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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 Postcode:518057

Data: 80 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 80
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 43.69 | 53.76 | 74.00 | 20.24 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.75 | 46.82 | 54.00 | 7.18 | Average |

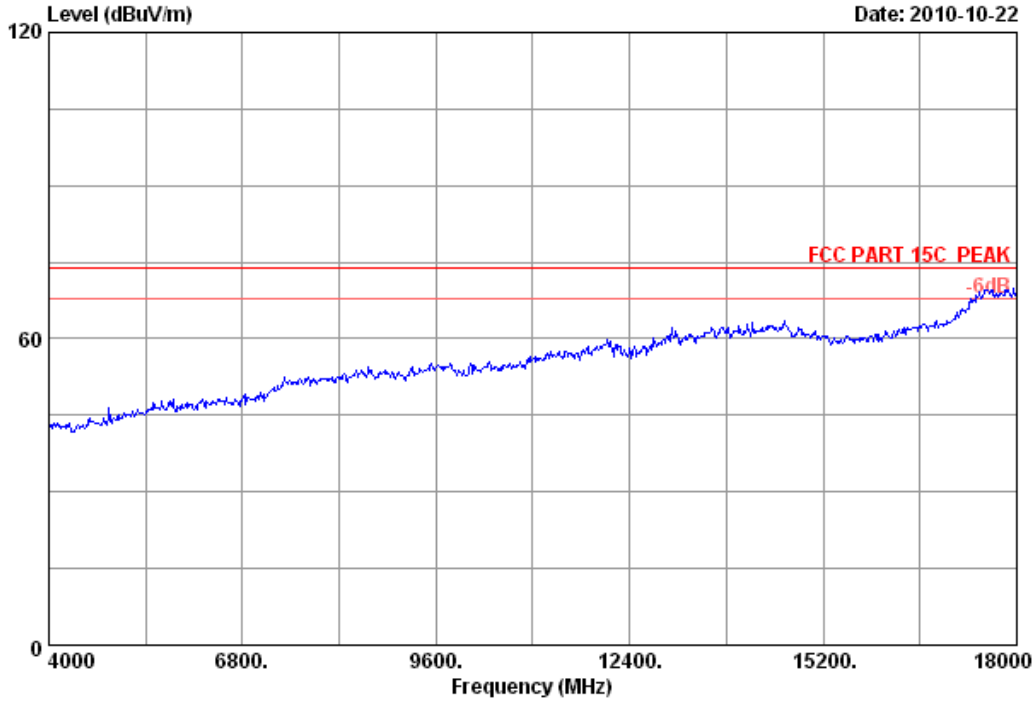
Remarks:

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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Data: 81 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

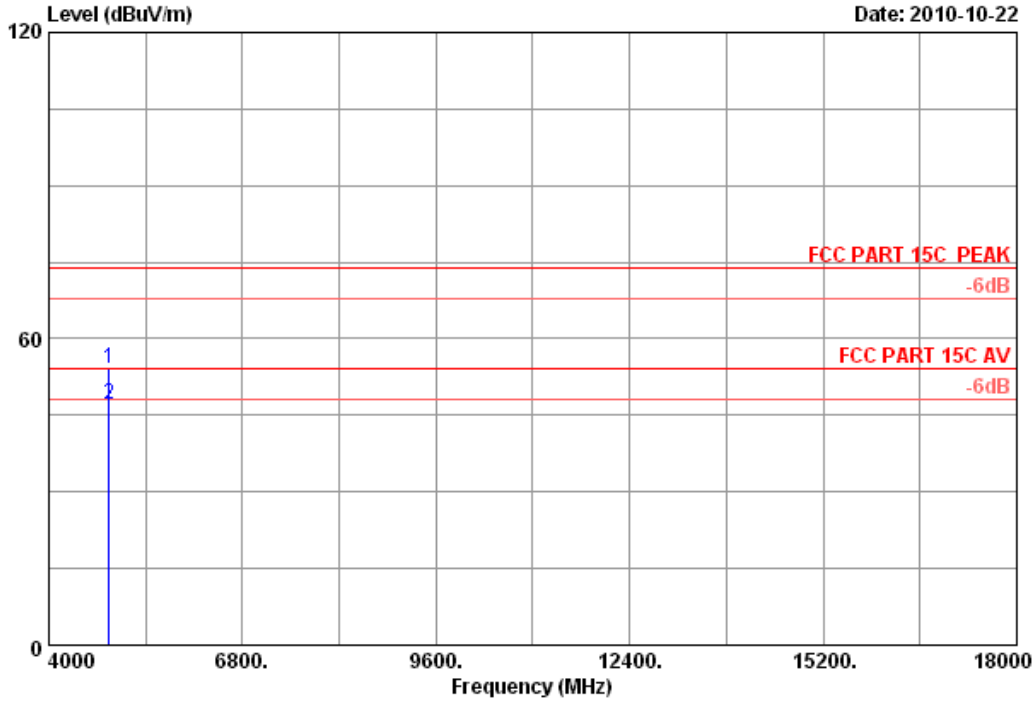


Site no. : RF Chamber Data no. : 81
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Data: 82 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 82
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 44.03 | 54.10 | 74.00 | 19.90 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.16 | 47.23 | 54.00 | 6.77 | Average |

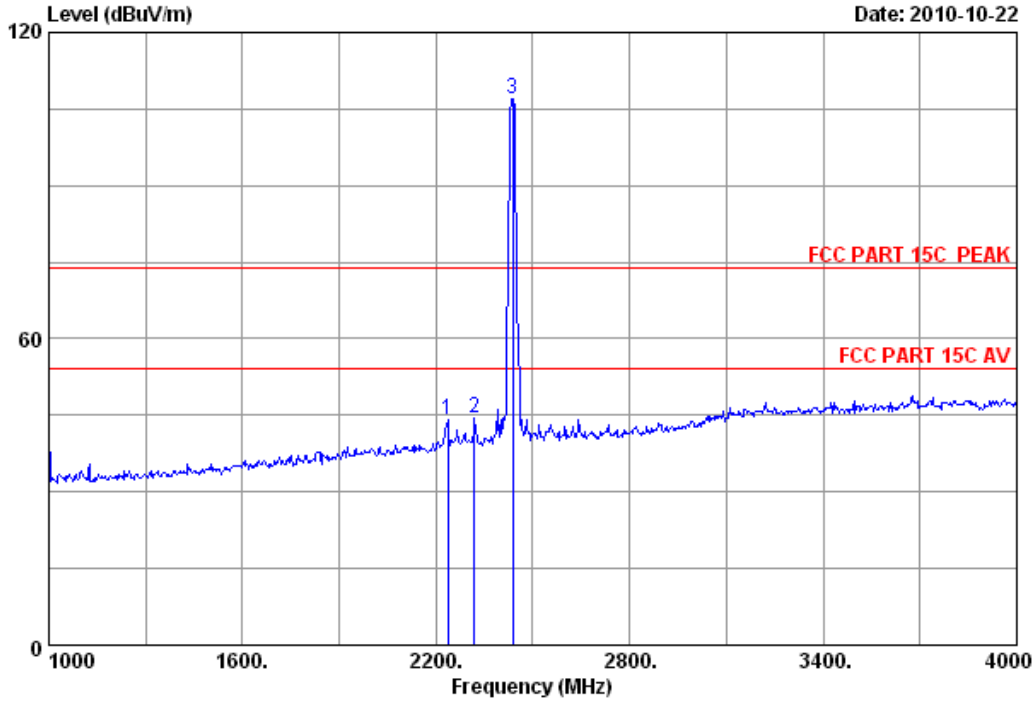
Remarks:

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: 83 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 83
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

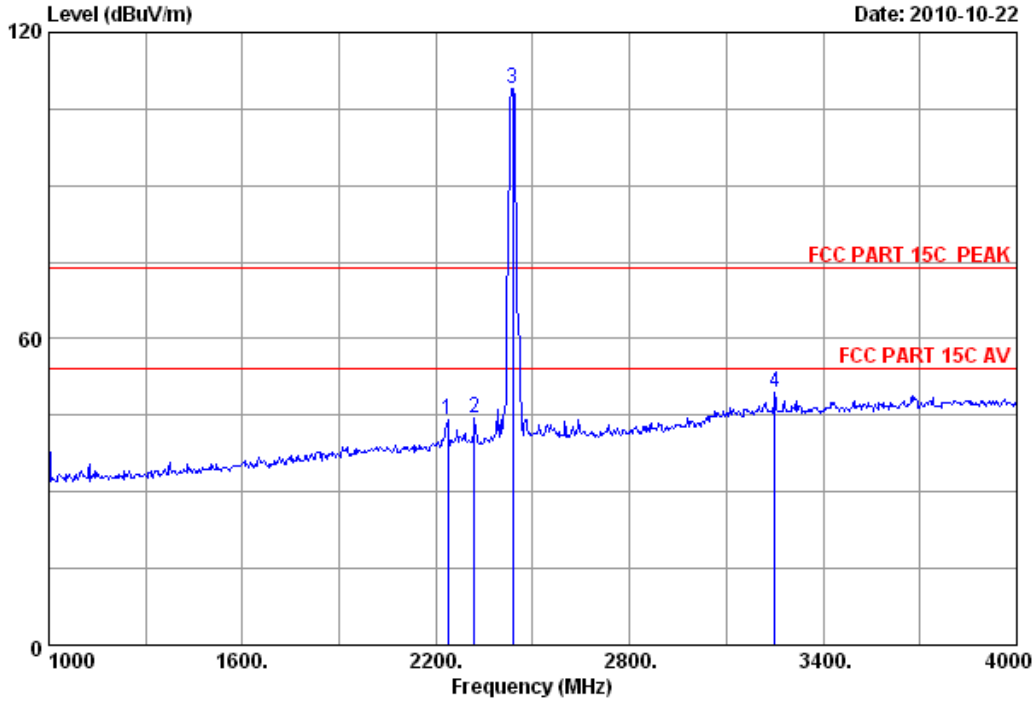
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2236.000 | 29.34 | 7.09 | 36.65 | 44.41 | 44.19 | 74.00 | 29.81 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 44.45 | 44.49 | 74.00 | 29.51 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 106.81 | 107.13 | 74.00 | -33.13 | 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: 84 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 84
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2236.000 | 29.34 | 7.09 | 36.65 | 44.41 | 44.19 | 74.00 | 29.81 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 44.45 | 44.49 | 74.00 | 29.51 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 108.81 | 109.13 | 74.00 | -35.13 | Peak |
| 4 | 3250.000 | 32.63 | 8.83 | 36.25 | 44.32 | 49.53 | 74.00 | 24.47 | Peak |

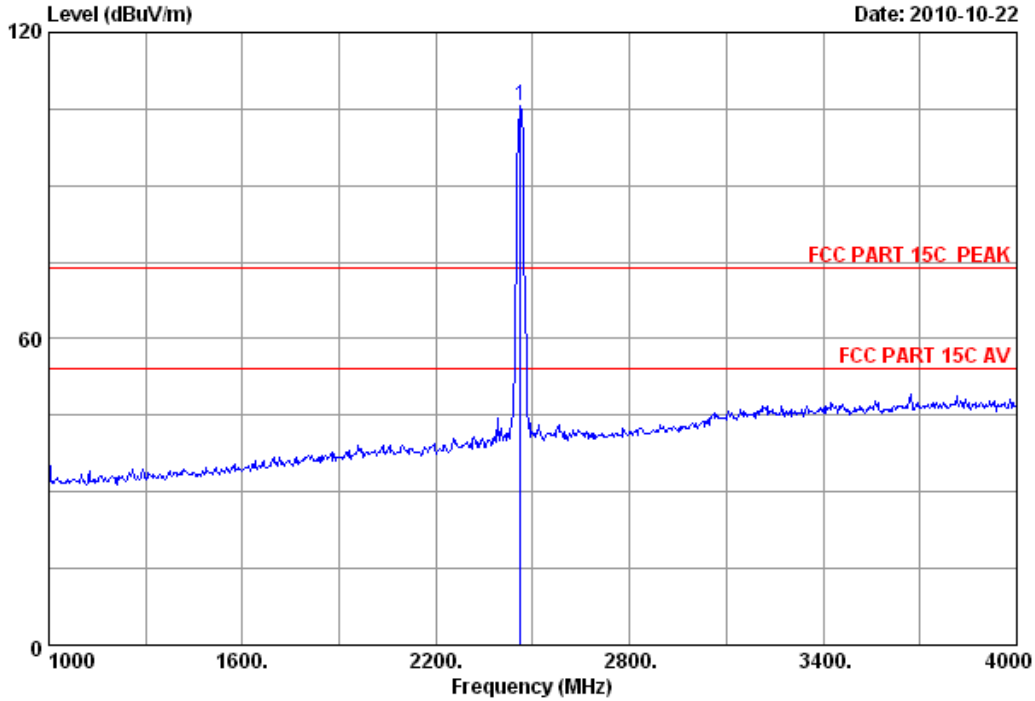
Remarks:

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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Site no. : RF Chamber Data no. : 85
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

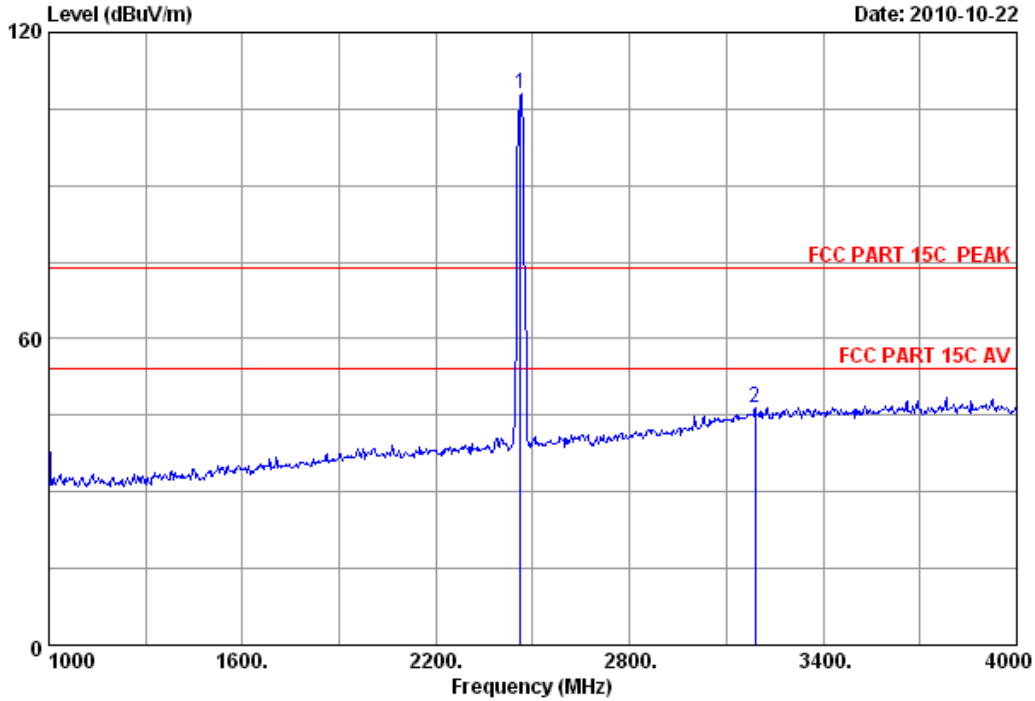
| | Ant. Freq. (MHz) | Cable Factor (dB/m) | Amp. loss (dB) | Emission Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|------------------------|---------------------------|----------------------|----------------------------|-------------------|-------------------|--------------------|----------------|--------|
| 1 | 2462.000 | 29.48 | 7.54 | 36.61 | 105.29 | 105.70 | 74.00 | -31.70 | 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. : RF Chamber Data no. : 86
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2462.000 | 29.48 | 7.54 | 36.61 | 107.46 | 107.87 | 74.00 | -33.87 | Peak |
| 2 | 3190.000 | 32.49 | 8.77 | 36.30 | 41.64 | 46.60 | 74.00 | 27.40 | Peak |

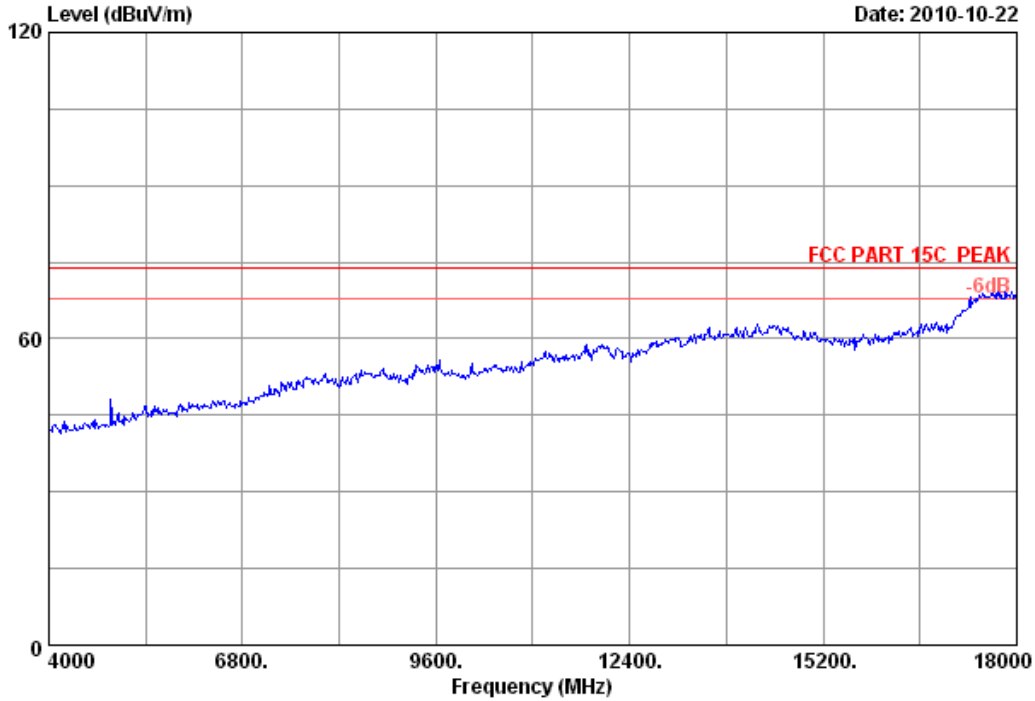
Remarks:

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: 87 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

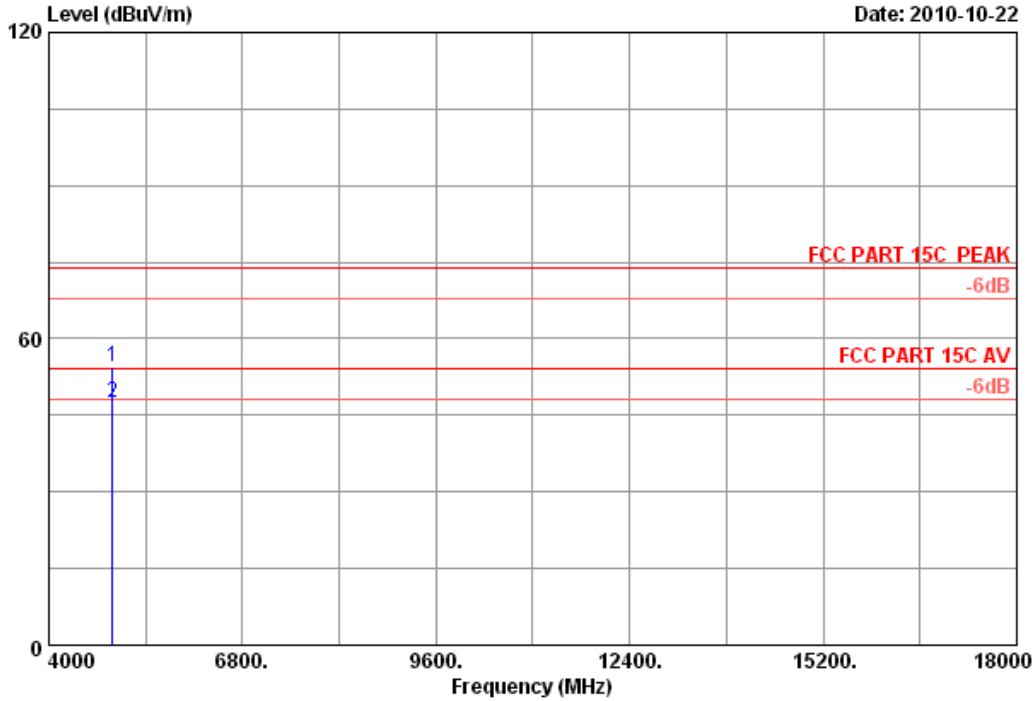


Site no. : RF Chamber Data no. : 87
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Site no. : RF Chamber Data no. : 88
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 44.13 | 54.40 | 74.00 | 19.60 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.18 | 47.45 | 54.00 | 6.55 | Average |

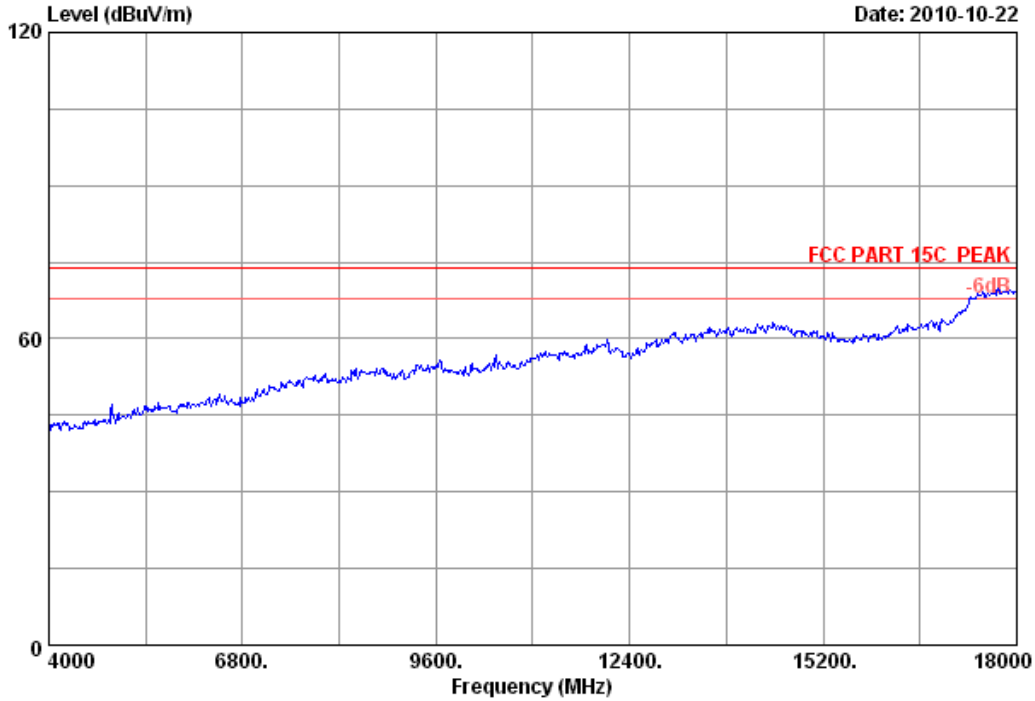
Remarks:

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:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

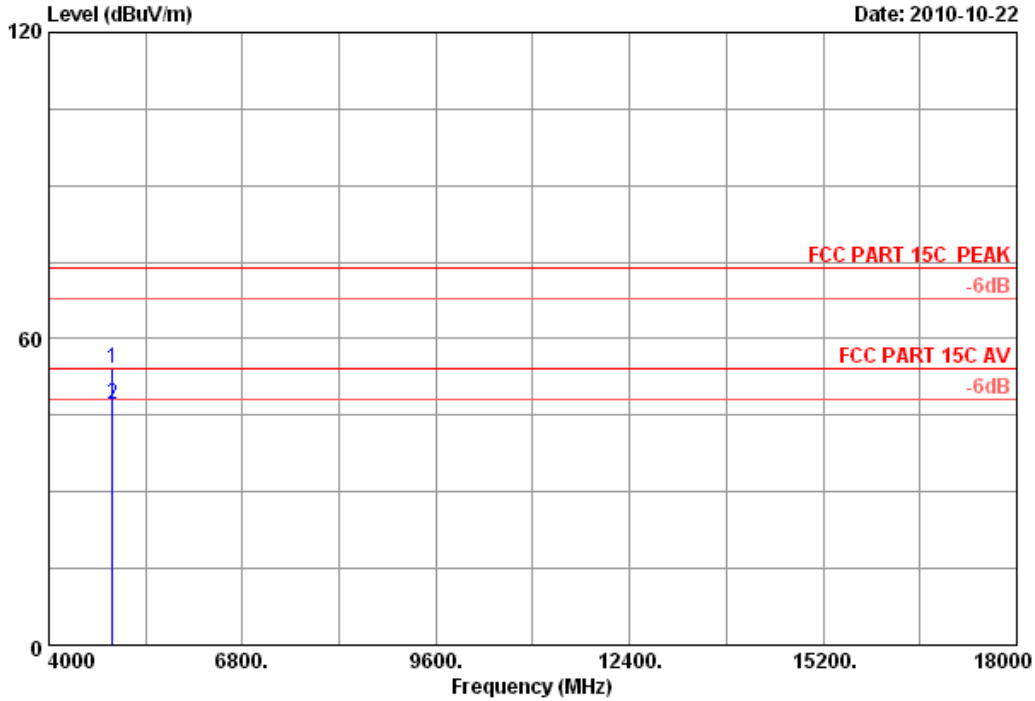


Site no. : RF Chamber Data no. : 89
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Data: 90 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 90
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 43.96 | 54.23 | 74.00 | 19.77 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 36.87 | 47.14 | 54.00 | 6.86 | Average |

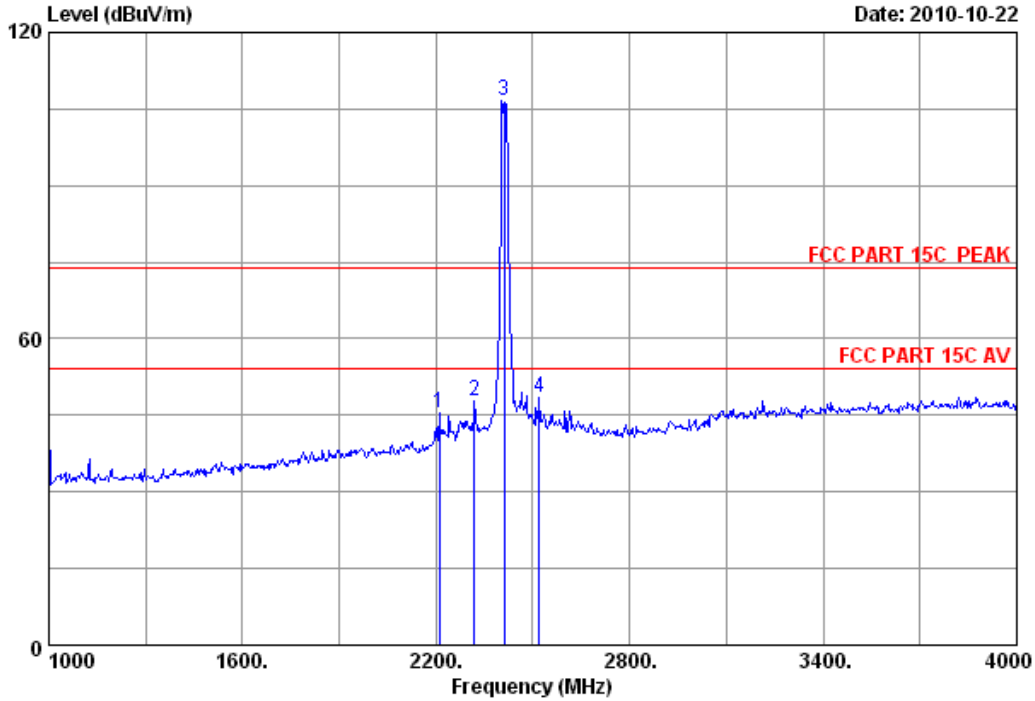
Remarks:

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. : RF Chamber Data no. : 91
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2209.000 | 29.32 | 7.05 | 36.66 | 45.90 | 45.61 | 74.00 | 28.39 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 47.63 | 47.67 | 74.00 | 26.33 | Peak |
| 3 | 2412.000 | 29.45 | 7.43 | 36.62 | 106.52 | 106.78 | 74.00 | -32.78 | Peak |
| 4 | 2521.000 | 29.58 | 7.65 | 36.59 | 47.71 | 48.35 | 74.00 | 25.65 | Peak |

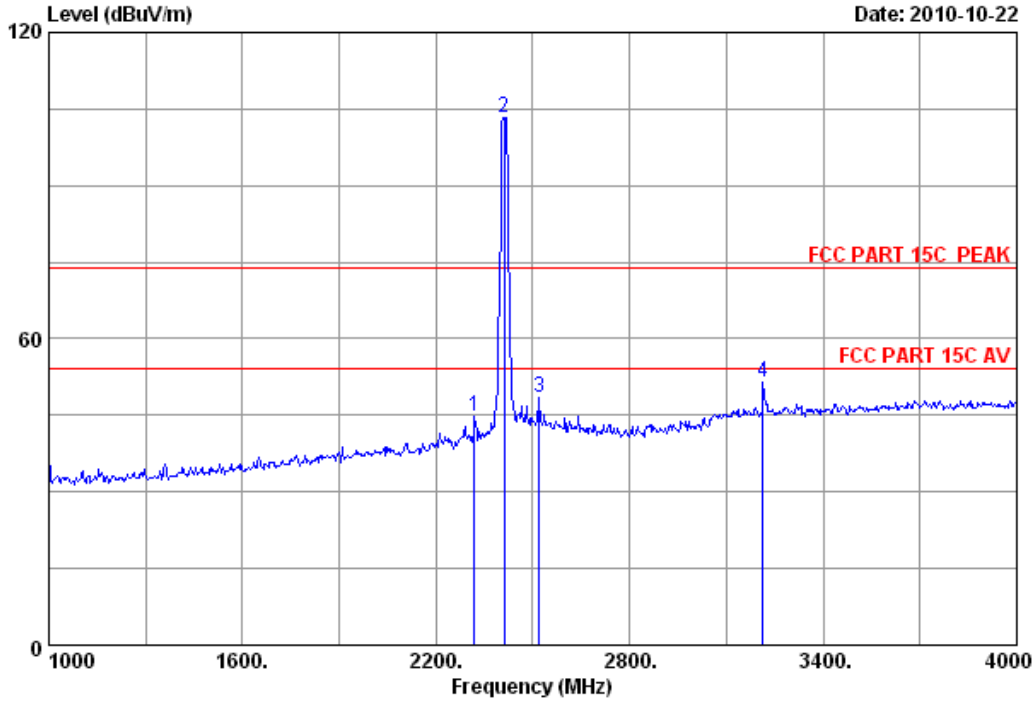
Remarks:

- 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. : RF Chamber Data no. : 92
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2320.000 | 29.40 | 7.27 | 36.63 | 44.70 | 44.74 | 74.00 | 29.26 | Peak |
| 2 | 2412.000 | 29.45 | 7.43 | 36.62 | 103.16 | 103.42 | 74.00 | -29.42 | Peak |
| 3 | 2521.000 | 29.58 | 7.65 | 36.59 | 47.67 | 48.31 | 74.00 | 25.69 | Peak |
| 4 | 3214.000 | 32.54 | 8.79 | 36.28 | 46.29 | 51.34 | 74.00 | 22.66 | Peak |

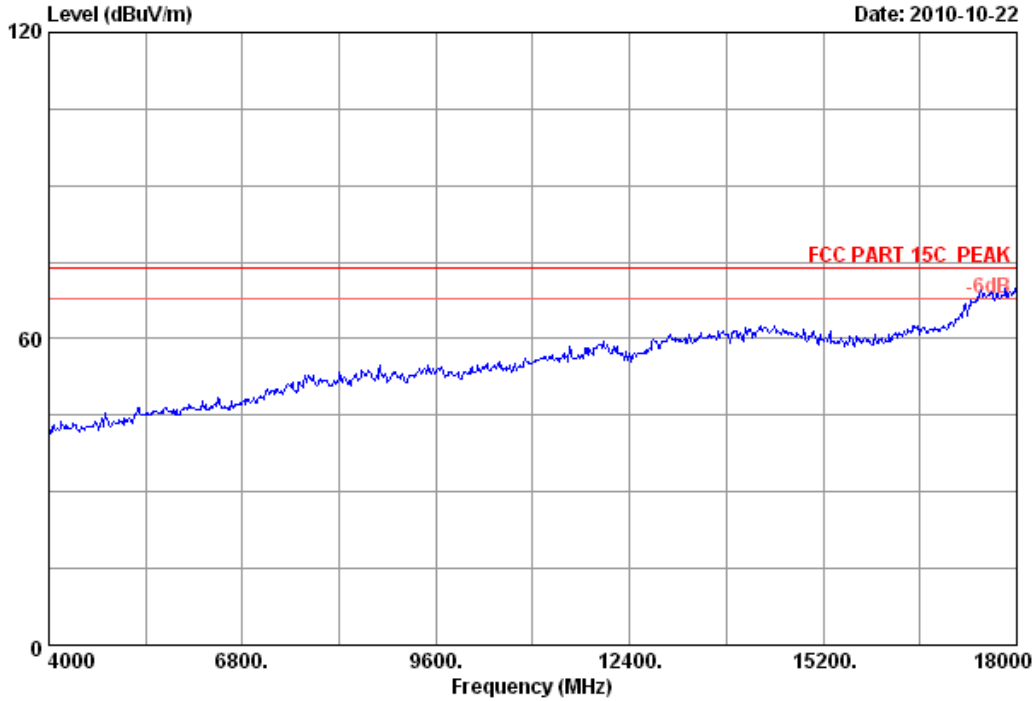
Remarks:

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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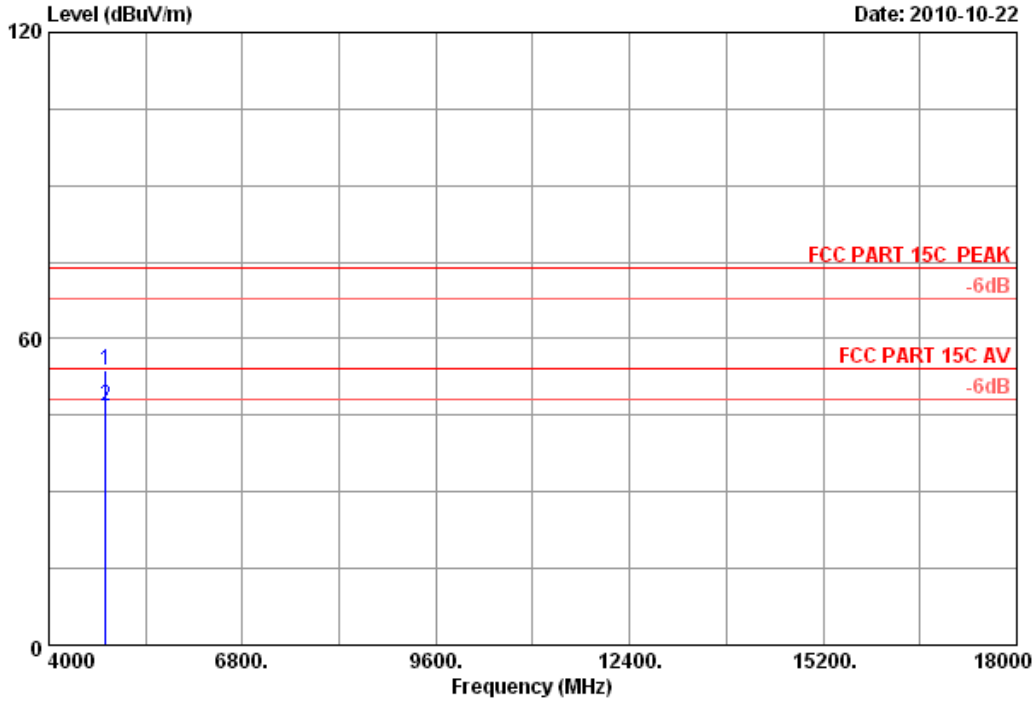


Site no. : RF Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Site no. : RF Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 43.99 | 53.87 | 74.00 | 20.13 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 36.86 | 46.74 | 54.00 | 7.26 | Average |

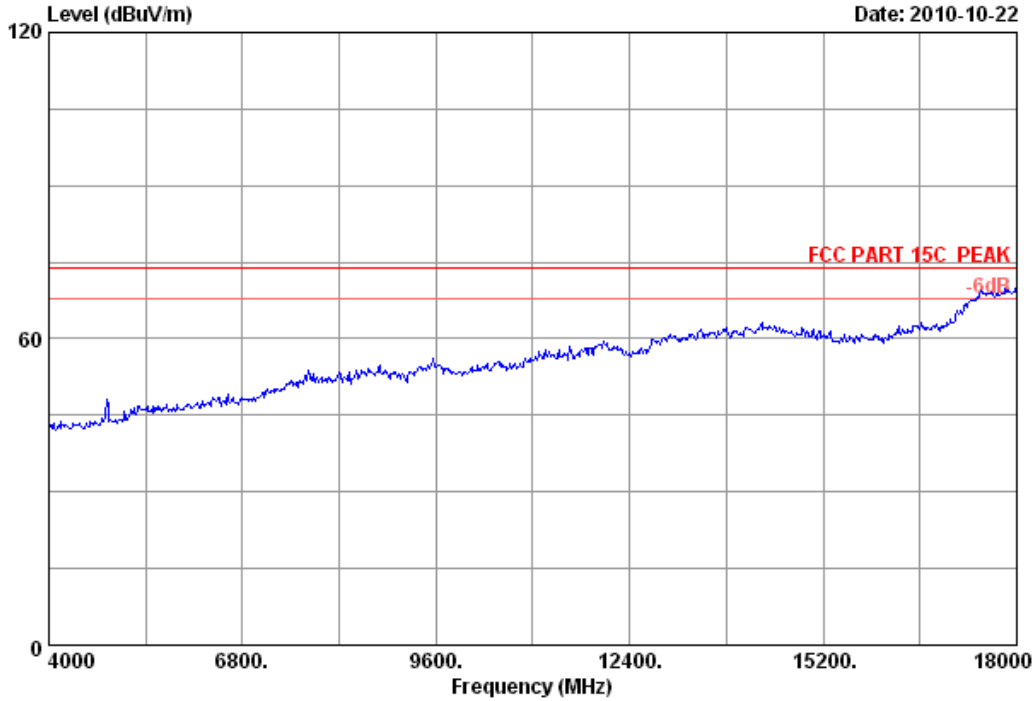
Remarks:

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: 95 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

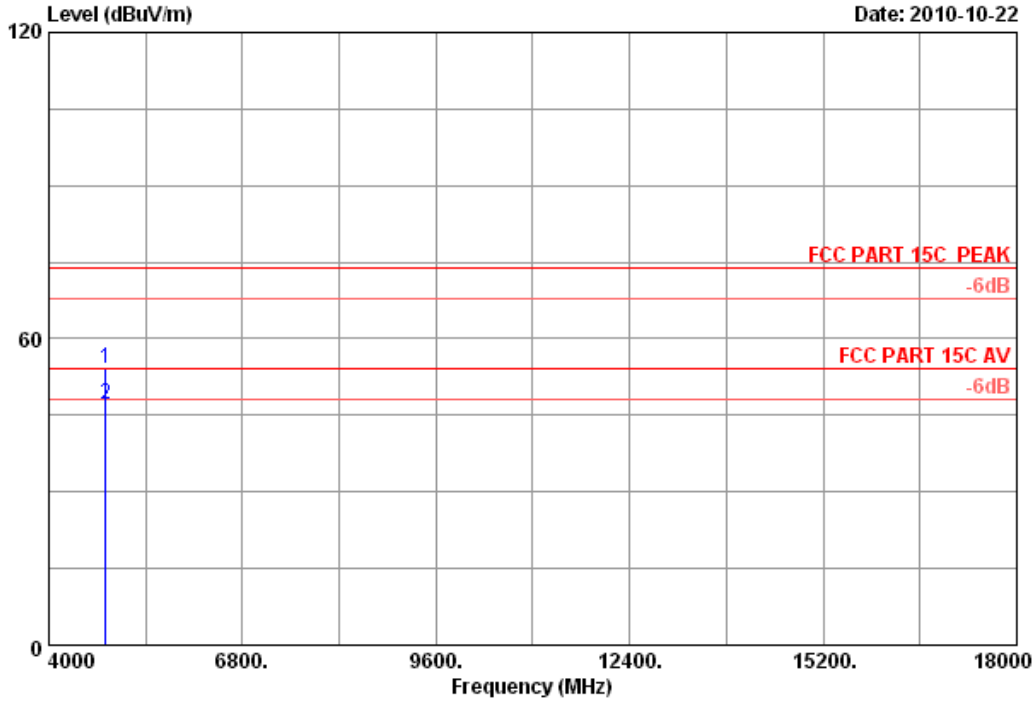


Site no. : RF Chamber Data no. : 95
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Site no. : RF Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4824.000 | 34.32 | 10.64 | 35.08 | 44.16 | 54.04 | 74.00 | 19.96 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 37.27 | 47.15 | 54.00 | 6.85 | Average |

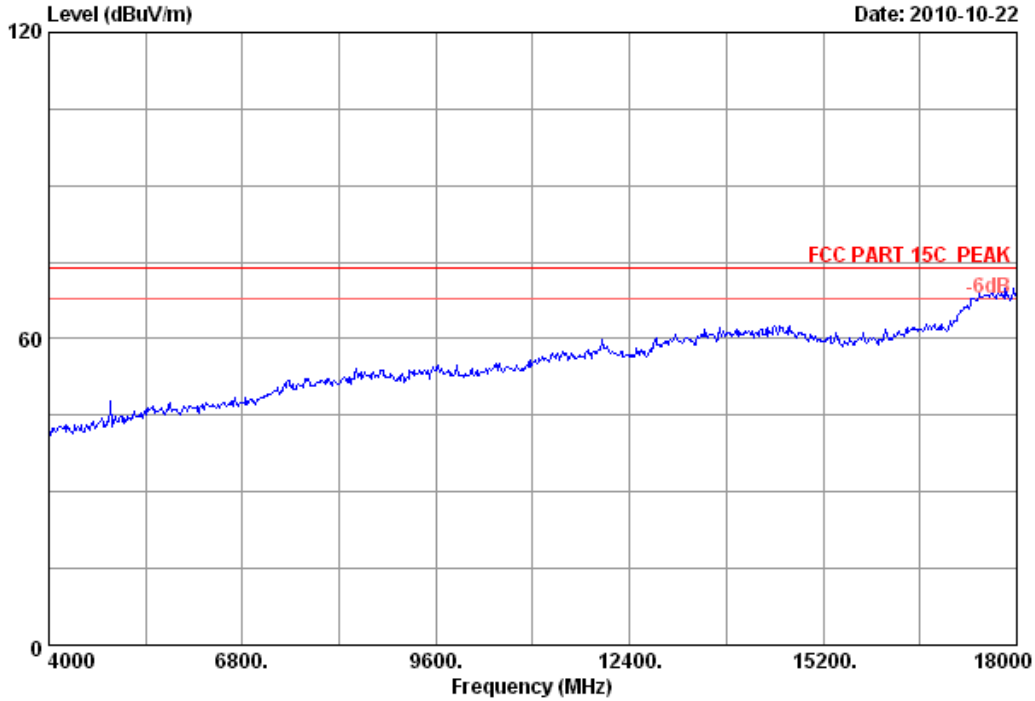
Remarks:

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: 97 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

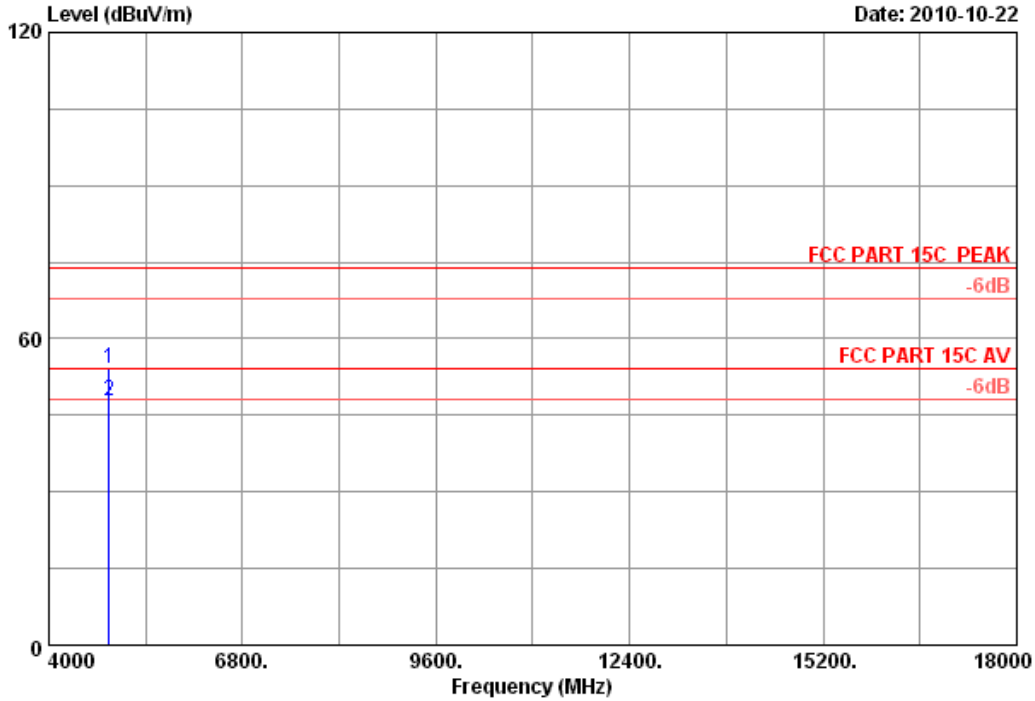


Site no. : RF Chamber Data no. : 97
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Data: 98 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. | Cable | Amp. | Emission | | | | | |
|-------|----------|-------|--------|----------|----------|----------|--------|--------|---------|
| Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark | |
| (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 44.12 | 54.19 | 74.00 | 19.81 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.59 | 47.66 | 54.00 | 6.34 | Average |

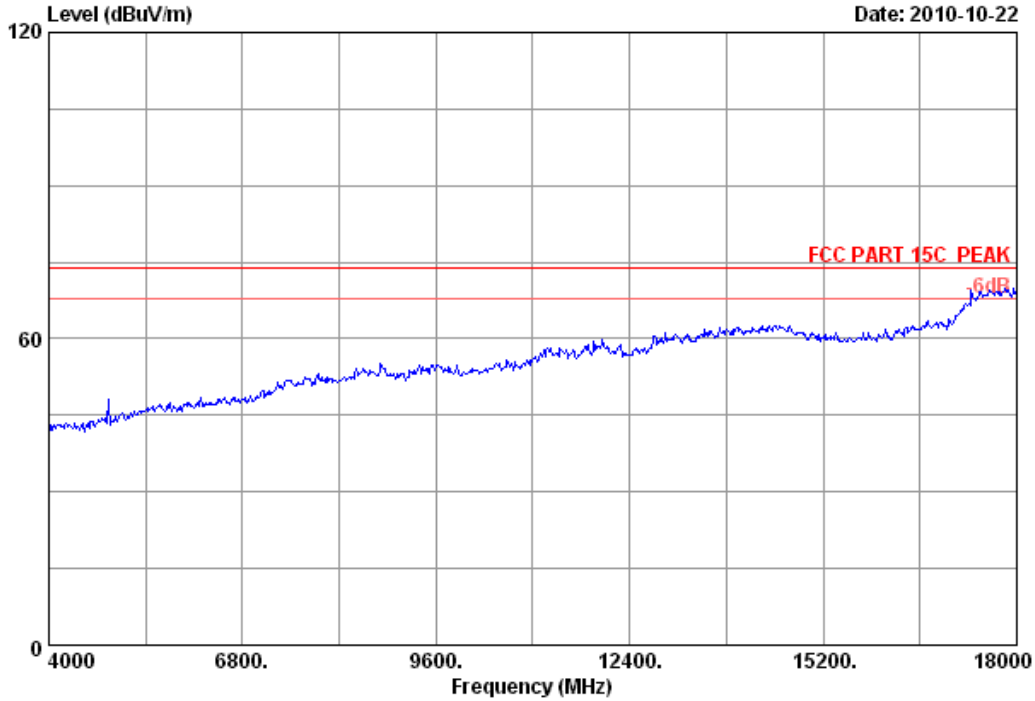
Remarks:

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: 99 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

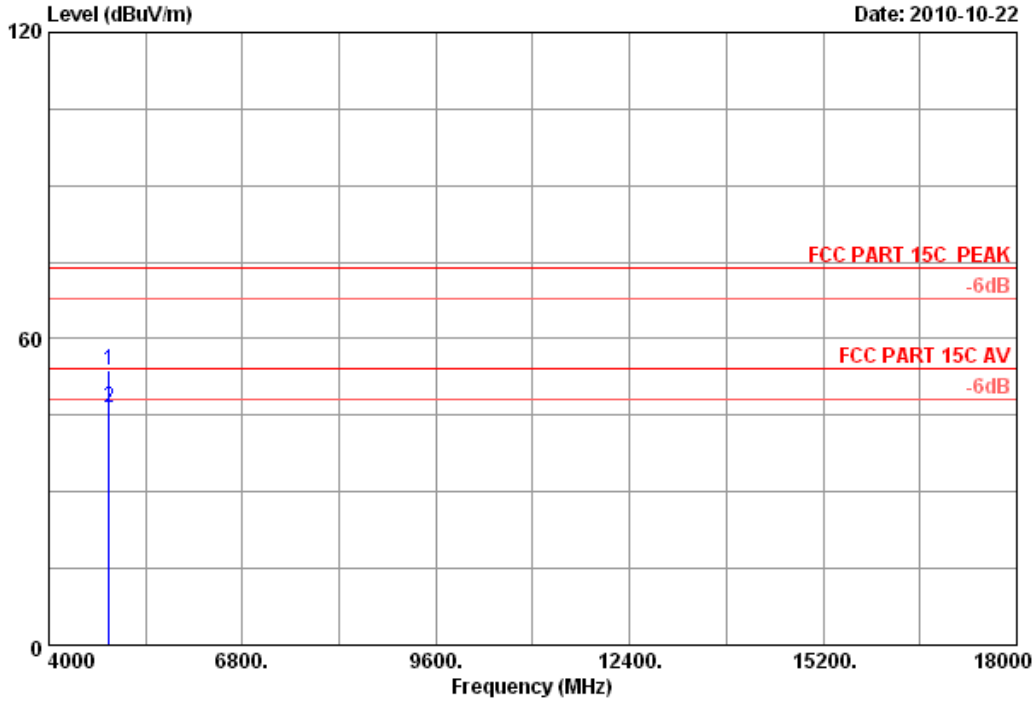


Site no. : RF Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Data: 100 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 43.68 | 53.75 | 74.00 | 20.25 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.49 | 46.56 | 54.00 | 7.44 | Average |

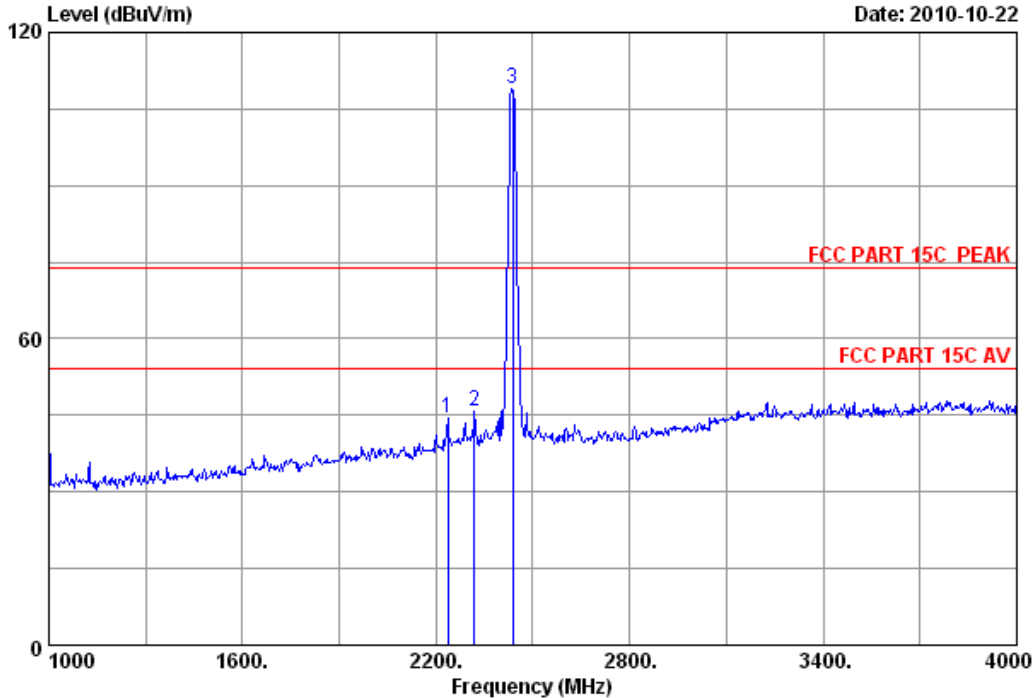
Remarks:

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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Data: 101 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 101
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

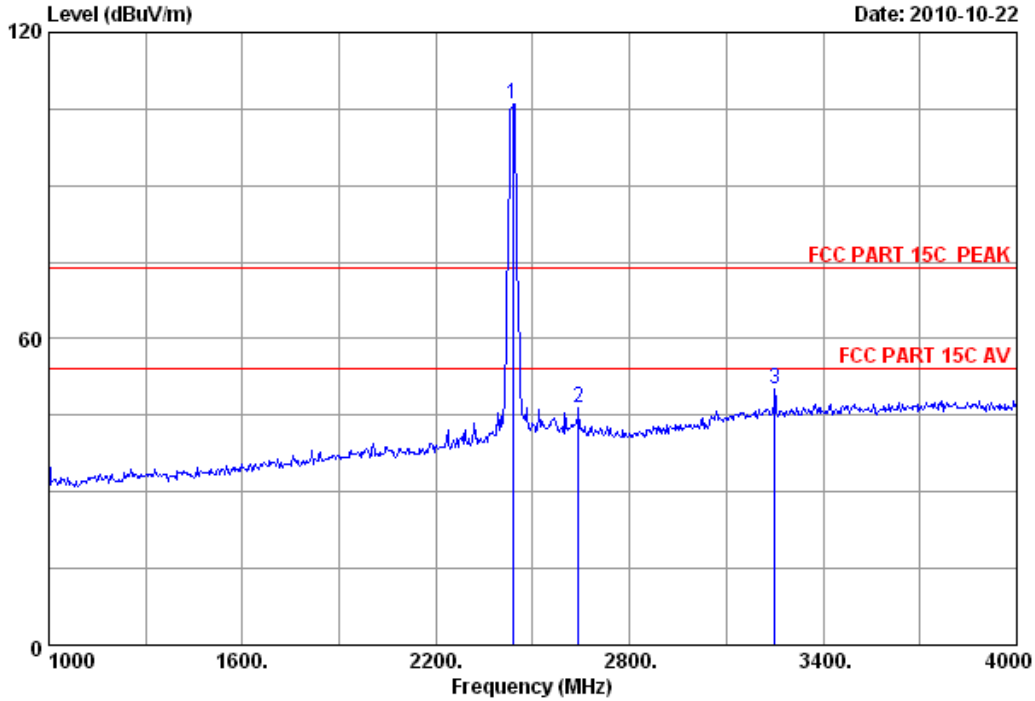
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2236.000 | 29.34 | 7.09 | 36.65 | 44.76 | 44.54 | 74.00 | 29.46 | Peak |
| 2 | 2320.000 | 29.40 | 7.27 | 36.63 | 45.90 | 45.94 | 74.00 | 28.06 | Peak |
| 3 | 2437.000 | 29.47 | 7.46 | 36.61 | 108.50 | 108.82 | 74.00 | -34.82 | 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:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

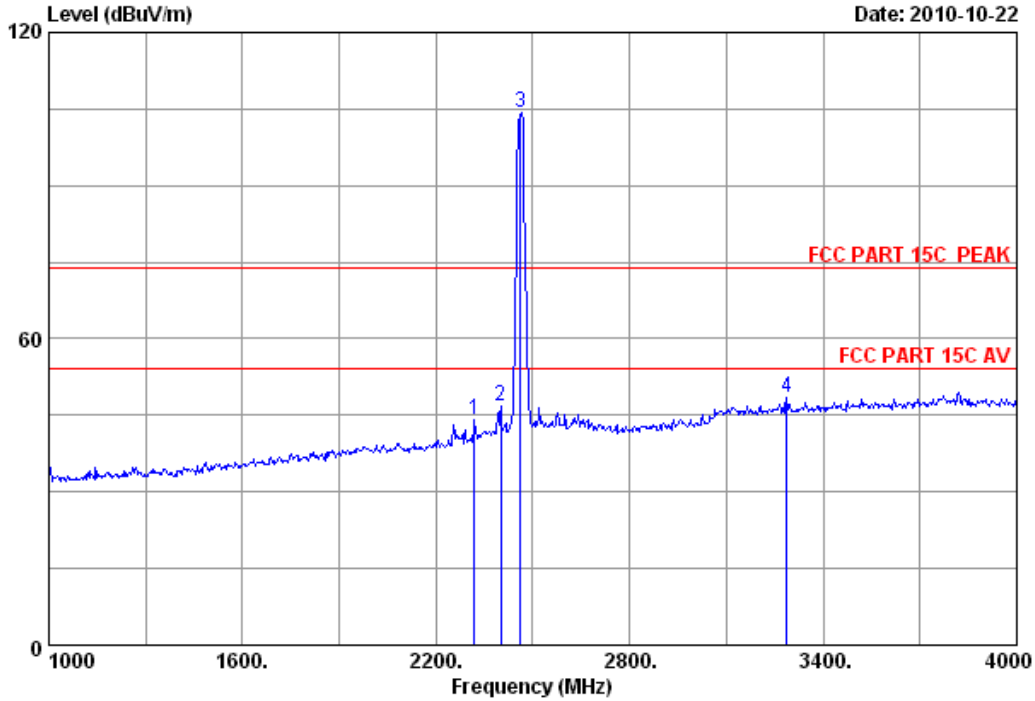
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2437.000 | 29.47 | 7.46 | 36.61 | 105.71 | 106.03 | 74.00 | -32.03 | Peak |
| 2 | 2641.000 | 30.25 | 7.88 | 36.57 | 44.96 | 46.52 | 74.00 | 27.48 | Peak |
| 3 | 3250.000 | 32.63 | 8.83 | 36.25 | 44.95 | 50.16 | 74.00 | 23.84 | 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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Data: 103 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 103
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2320.000 | 29.40 | 7.27 | 36.63 | 43.98 | 44.02 | 74.00 | 29.98 | Peak |
| 2 | 2401.000 | 29.44 | 7.43 | 36.62 | 46.43 | 46.68 | 74.00 | 27.32 | Peak |
| 3 | 2462.000 | 29.48 | 7.54 | 36.61 | 103.87 | 104.28 | 74.00 | -30.28 | Peak |
| 4 | 3286.000 | 32.72 | 8.88 | 36.20 | 43.08 | 48.48 | 74.00 | 25.52 | Peak |

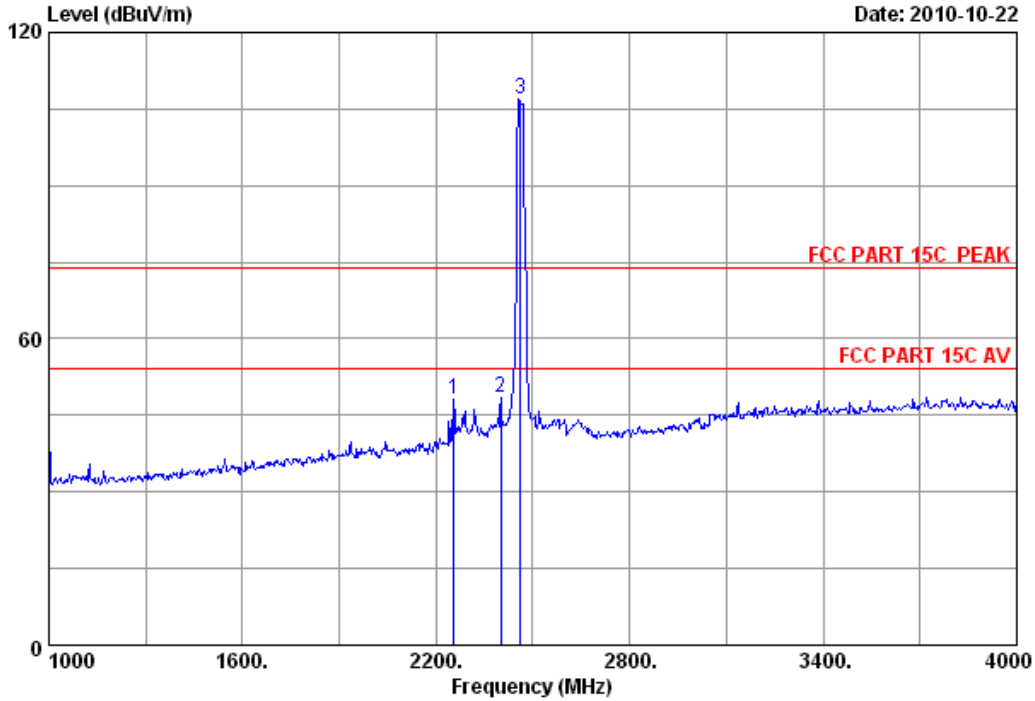
Remarks:

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: 104 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

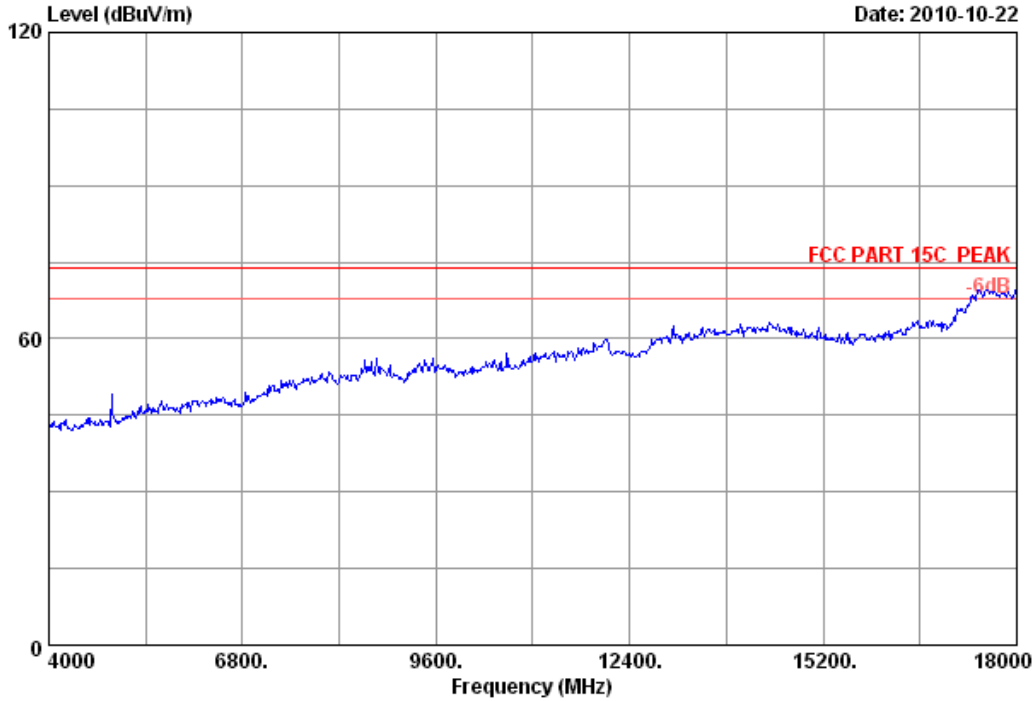
| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2254.000 | 29.36 | 7.12 | 36.65 | 48.35 | 48.18 | 74.00 | 25.82 | Peak |
| 2 | 2401.000 | 29.44 | 7.43 | 36.62 | 48.20 | 48.45 | 74.00 | 25.55 | Peak |
| 3 | 2462.000 | 29.48 | 7.54 | 36.61 | 106.43 | 106.84 | 74.00 | -32.84 | 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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Data: 105 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

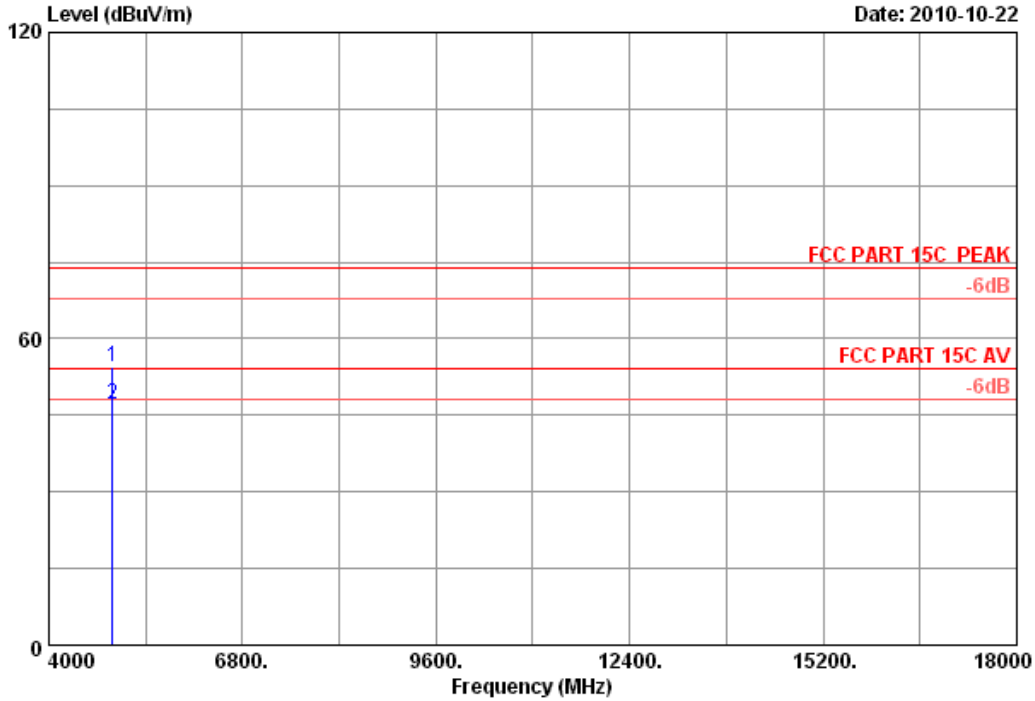


Site no. : RF Chamber Data no. : 105
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL



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Data: 106 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 106
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 44.12 | 54.39 | 74.00 | 19.61 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 36.95 | 47.22 | 54.00 | 6.78 | Average |

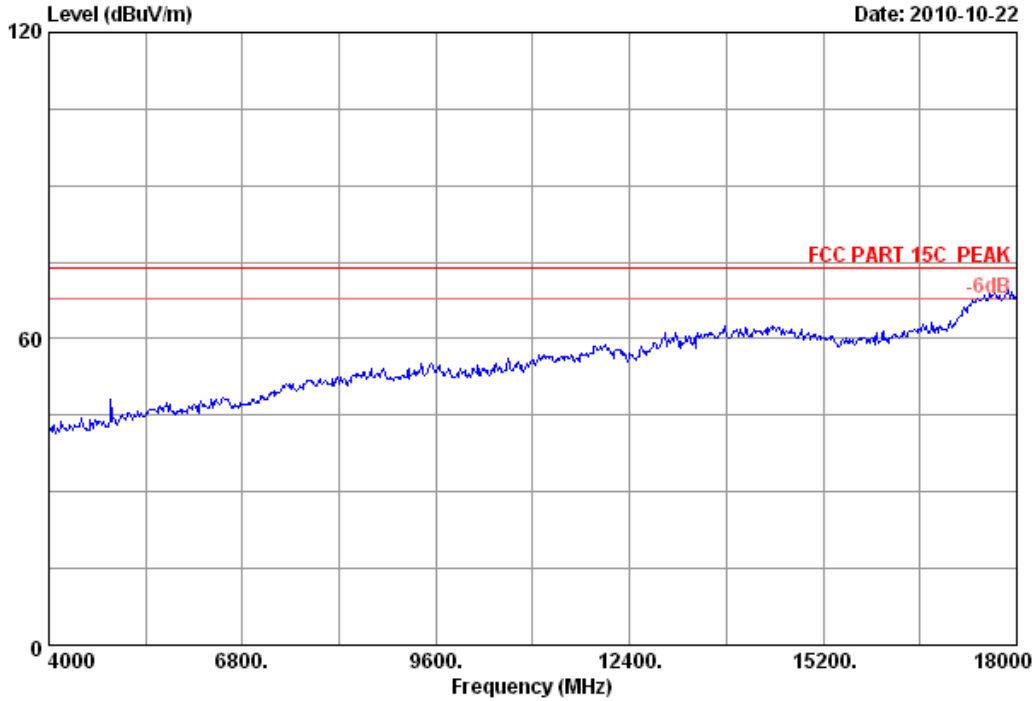
Remarks:

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: 107 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)

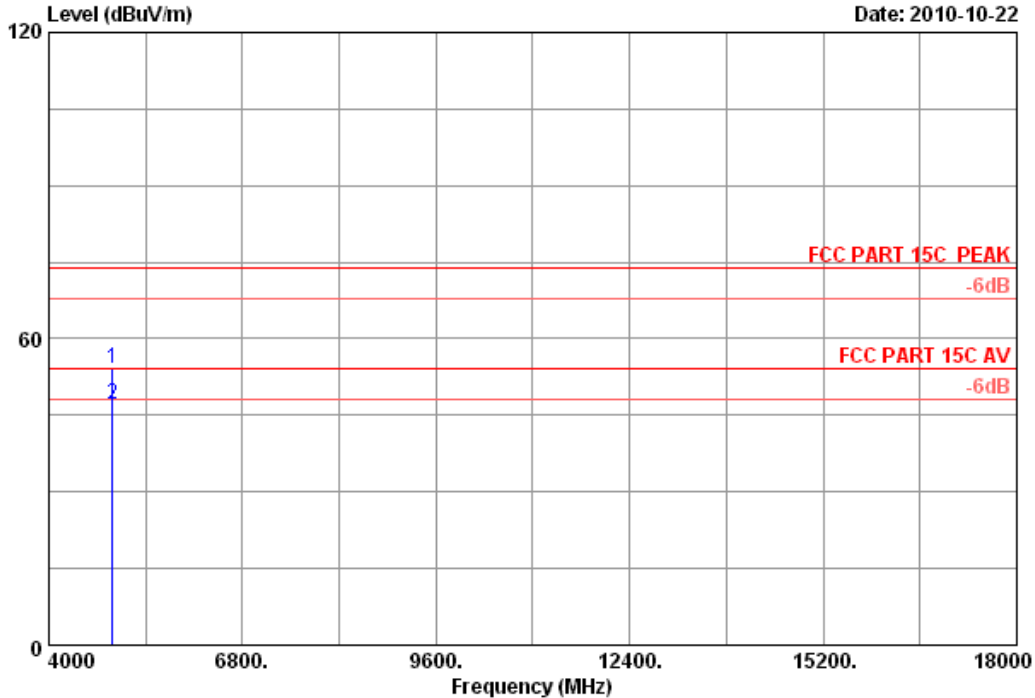


| | | | |
|-------------|--|-----------|--------------|
| Site no. | : RF Chamber | Data no. | : 107 |
| Dis. / Ant. | : 3m 3115(0911) | Ant. pol. | : HORIZONTAL |
| Limit | : FCC PART 15C PEAK | | |
| Env. / Ins. | : 23°C/54% | Engineer | : Sunny-lu |
| EUT | : 2.4GHz High Power Wireless Outdoor CPE | | |
| Power | : DC 12V From Adapter Input AC 120V/60Hz | | |
| Test mode | : IEEE802.11g CH11 2462MHz Tx | | |
| M/N | : TL-WA5210G | | |
| Memo | : ANT_EXTERNAL | | |



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Data: 108 File: E:\2010 report data\T\TP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 108
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 34.49 | 10.76 | 34.98 | 43.96 | 54.23 | 74.00 | 19.77 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 36.89 | 47.16 | 54.00 | 6.84 | 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.08,10 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08,10 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08,10 | 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

- 1, Connected the EUT's antenna port to spectrum analyzer by 20dB attenuator.
- 2, Measure all the conducted emissions from antenna port by spectrum analyzer as below set:

RBW=100KHz; VBW=300KHz; Detector: Peak; Sweep time: Auto

Note: The cable loss and attenuator loss were offset into spectrum analyzer as an amplitude offset.

5.4. Test result

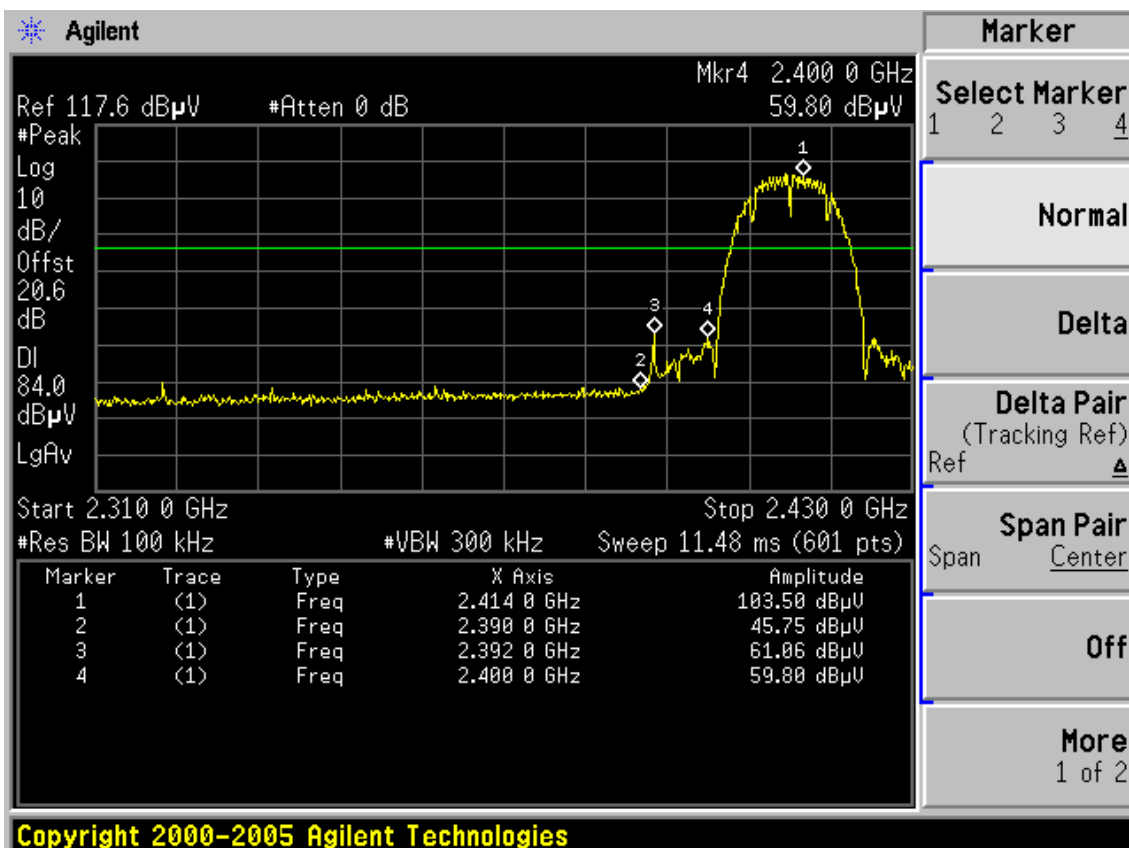
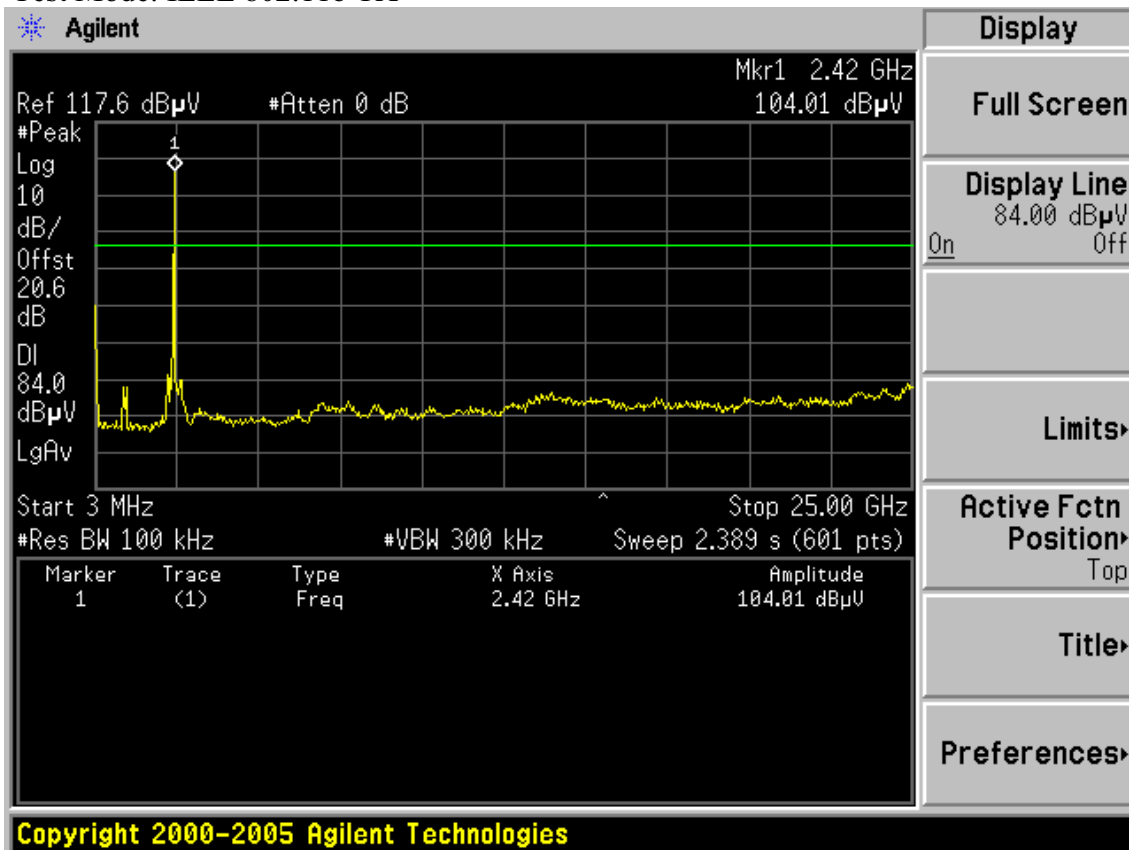
| | | |
|---|--------------------|--------------------|
| EUT: 2.4GHz High Power Wireless Outdoor CPE | | |
| M/N: TL-WA5210G | | |
| Test date:2010-07-02 | Pressure: 100.6kpa | Humidity: 56 % |
| Tested by: Sunny-Lu | Test site: RF site | Temperature : 25°C |

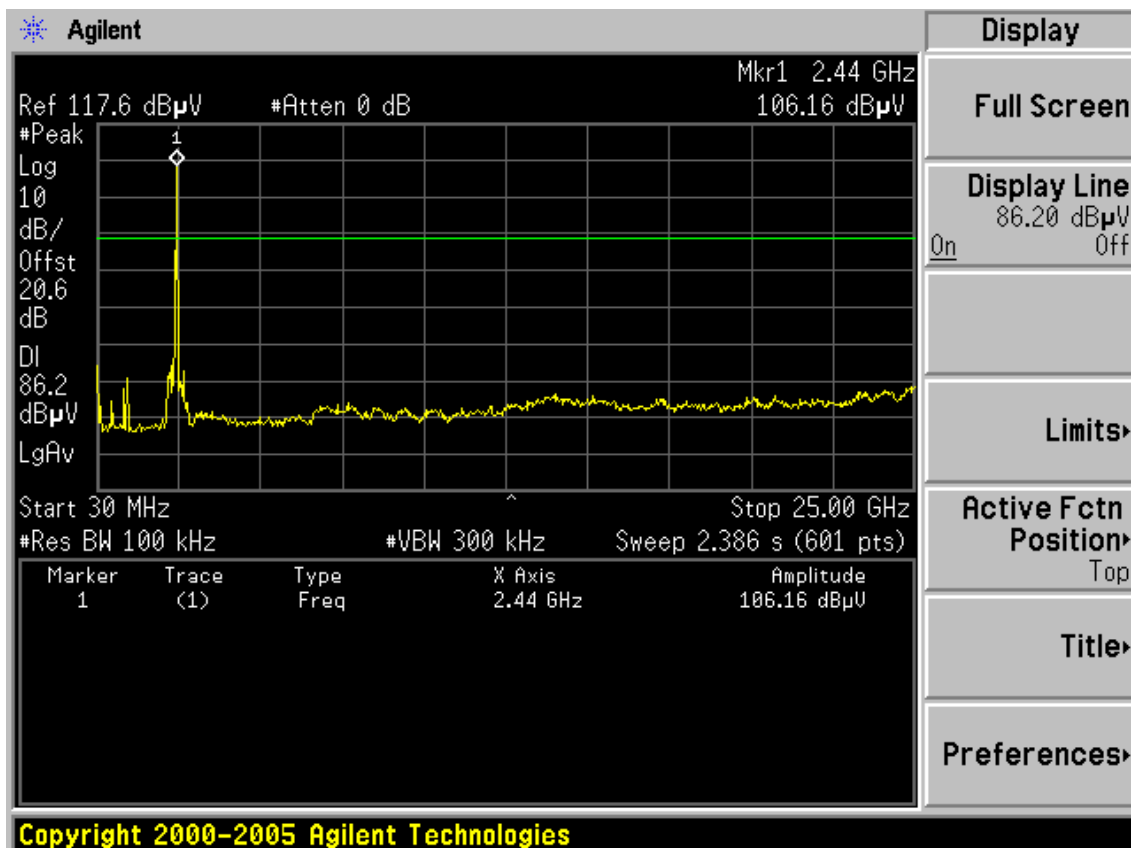
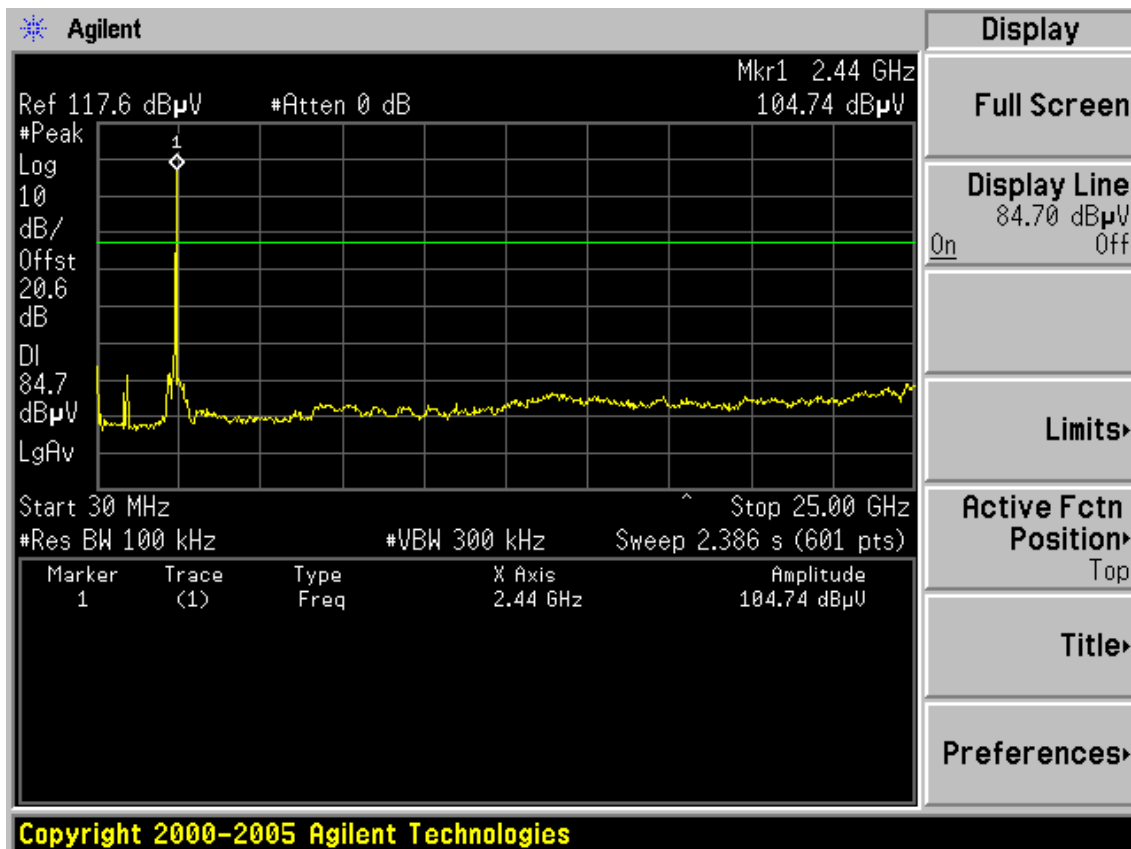
| Cable loss: 0.6dB | | Attenuator loss: 20dB | | |
|---|------|-----------------------|------------|------------------|
| Antenna Gain: Vertical& Horizontal antenna:12dBi External antenna :9dBi | | | | |
| Test Mode | CH | Internal Antenna | | External Antenna |
| | | Vertical | Horizontal | |
| 11b | CH1 | PASS | PASS | PASS |
| | CH6 | PASS | PASS | PASS |
| | CH11 | PASS | PASS | PASS |
| 11g | CH1 | PASS | PASS | PASS |
| | CH6 | PASS | PASS | PASS |
| | CH11 | PASS | PASS | PASS |
| Note: See below original test data. | | | | |

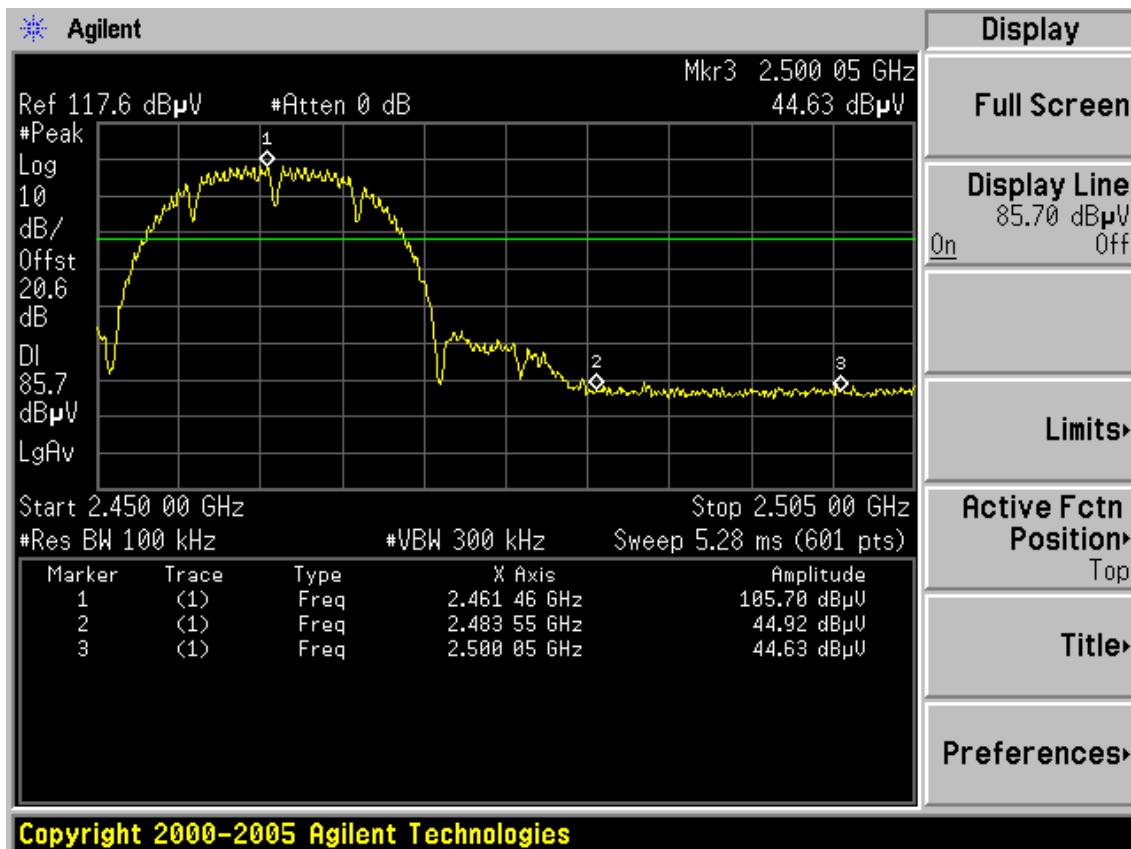
Conducted emission test data:

External:

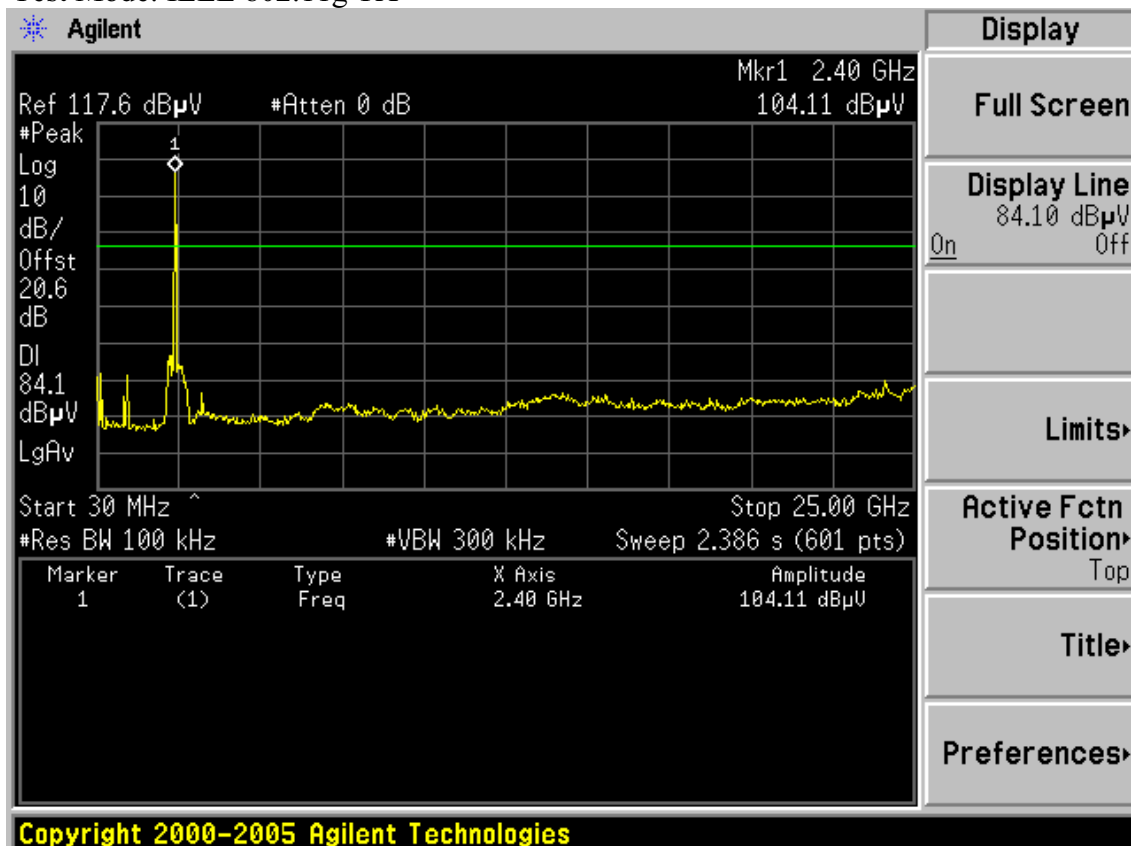
Test Mode: IEEE 802.11b TX

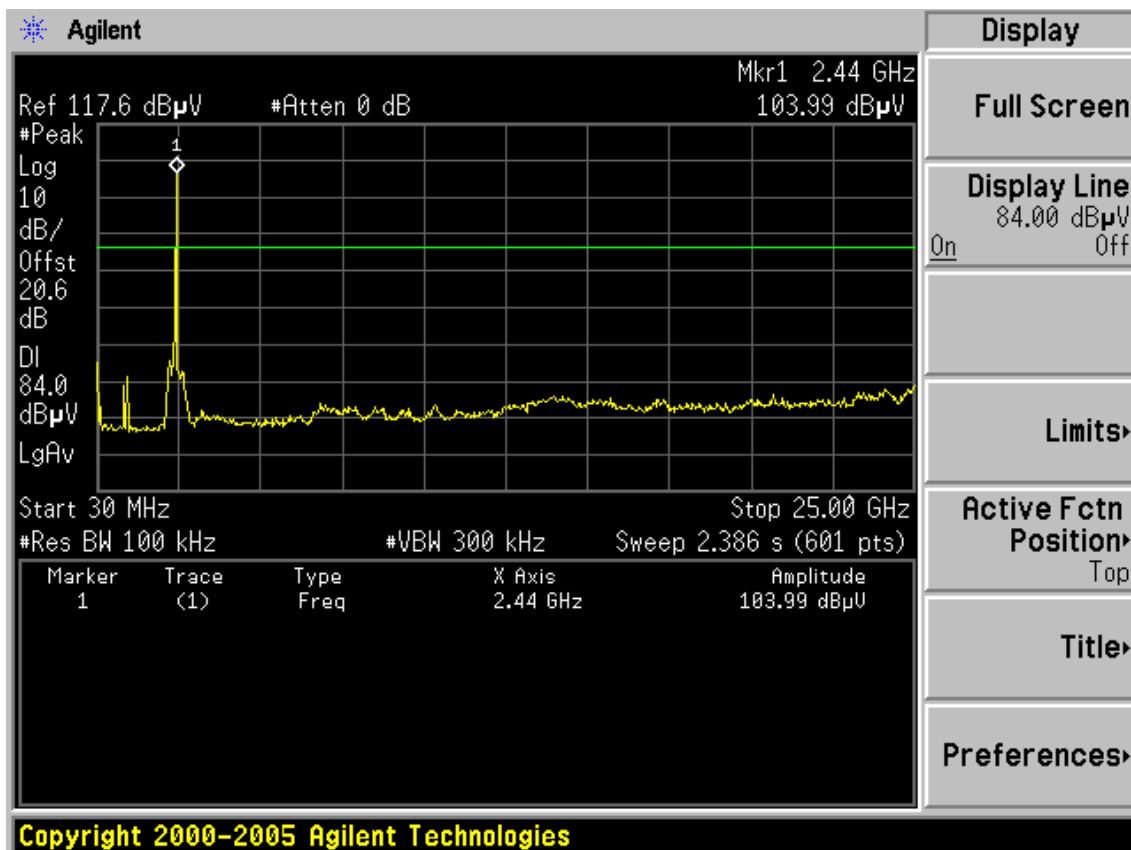
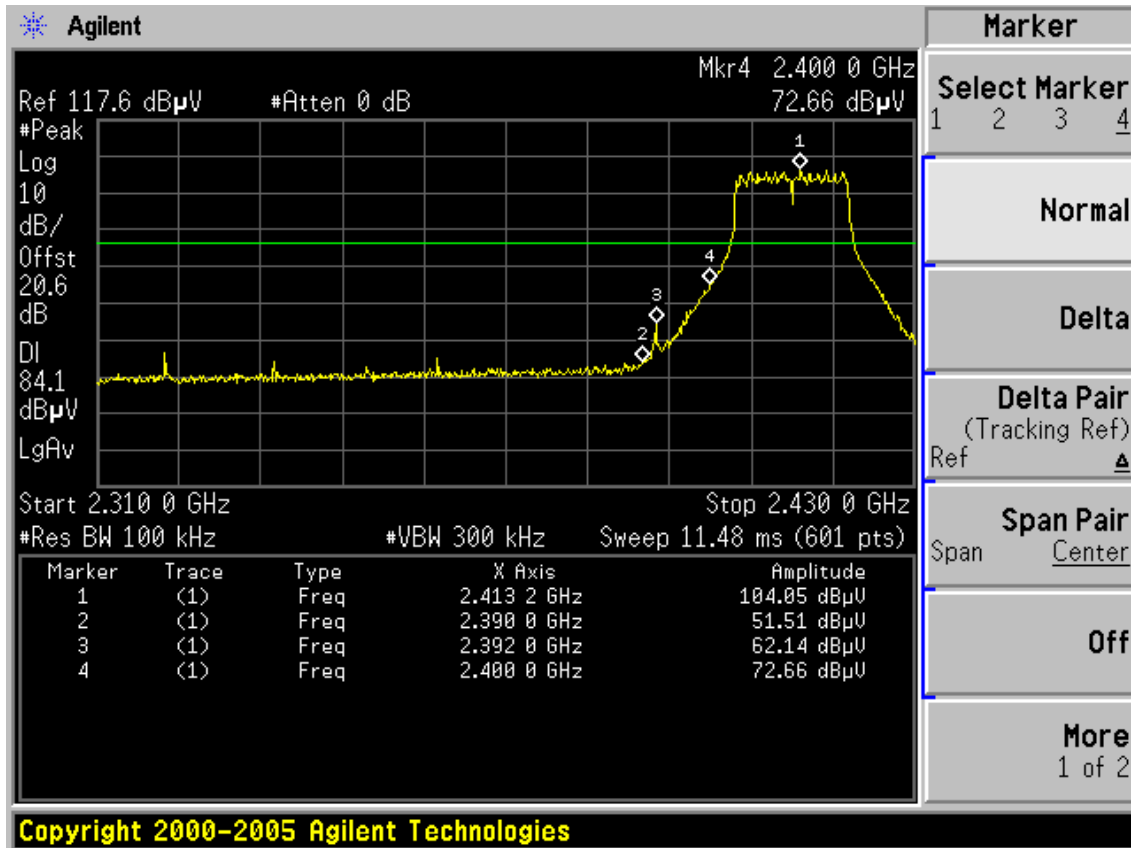


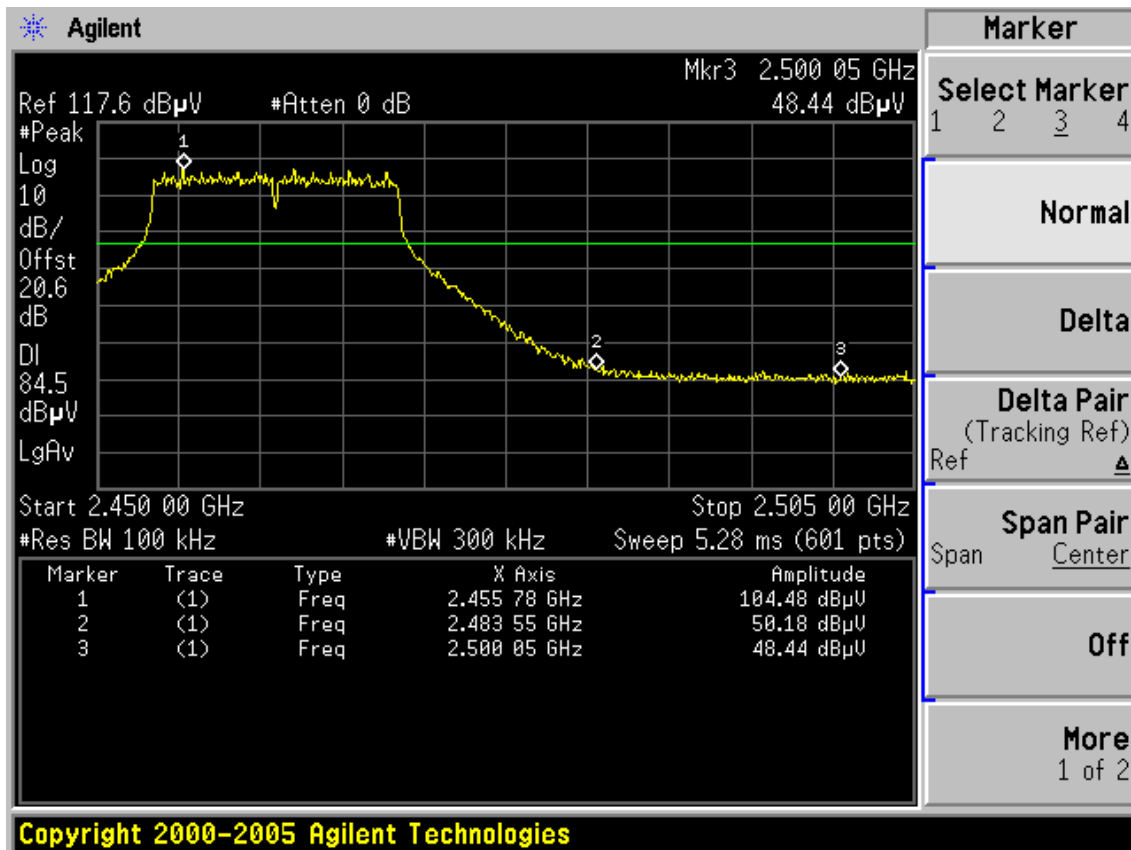
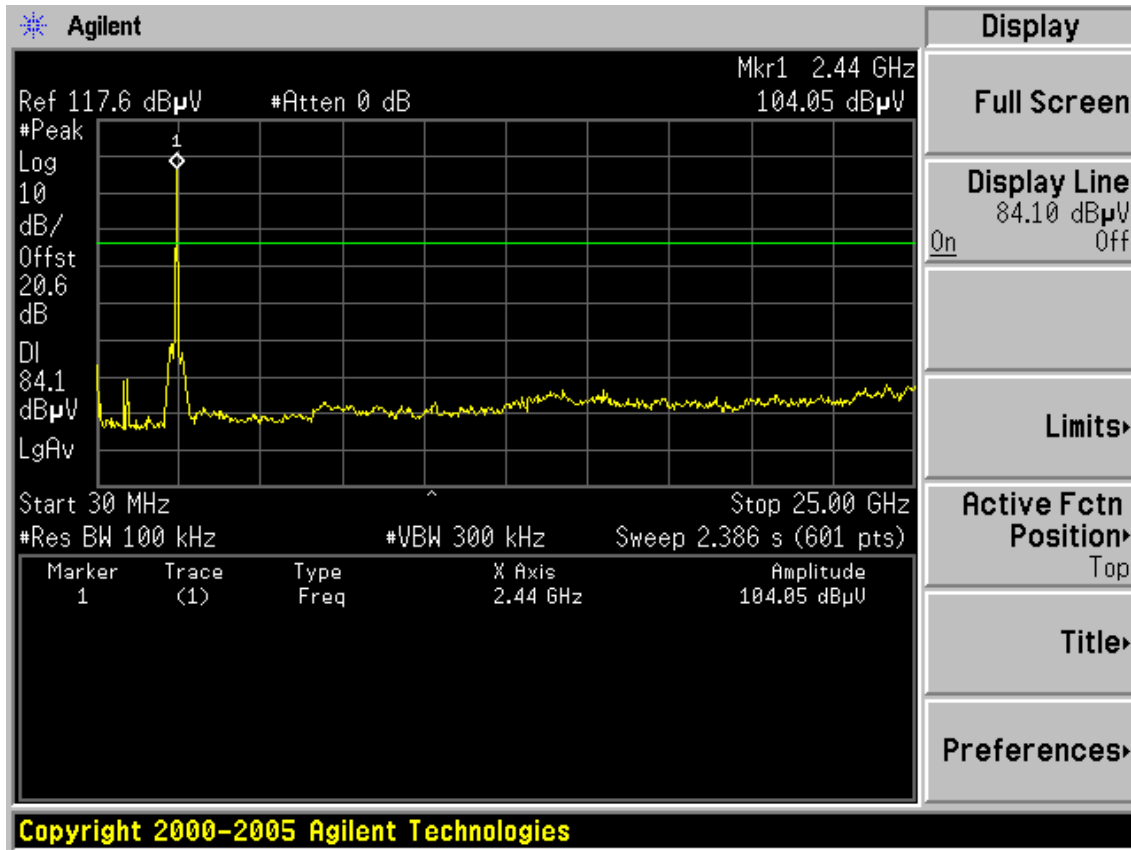




Test Mode: IEEE 802.11g TX

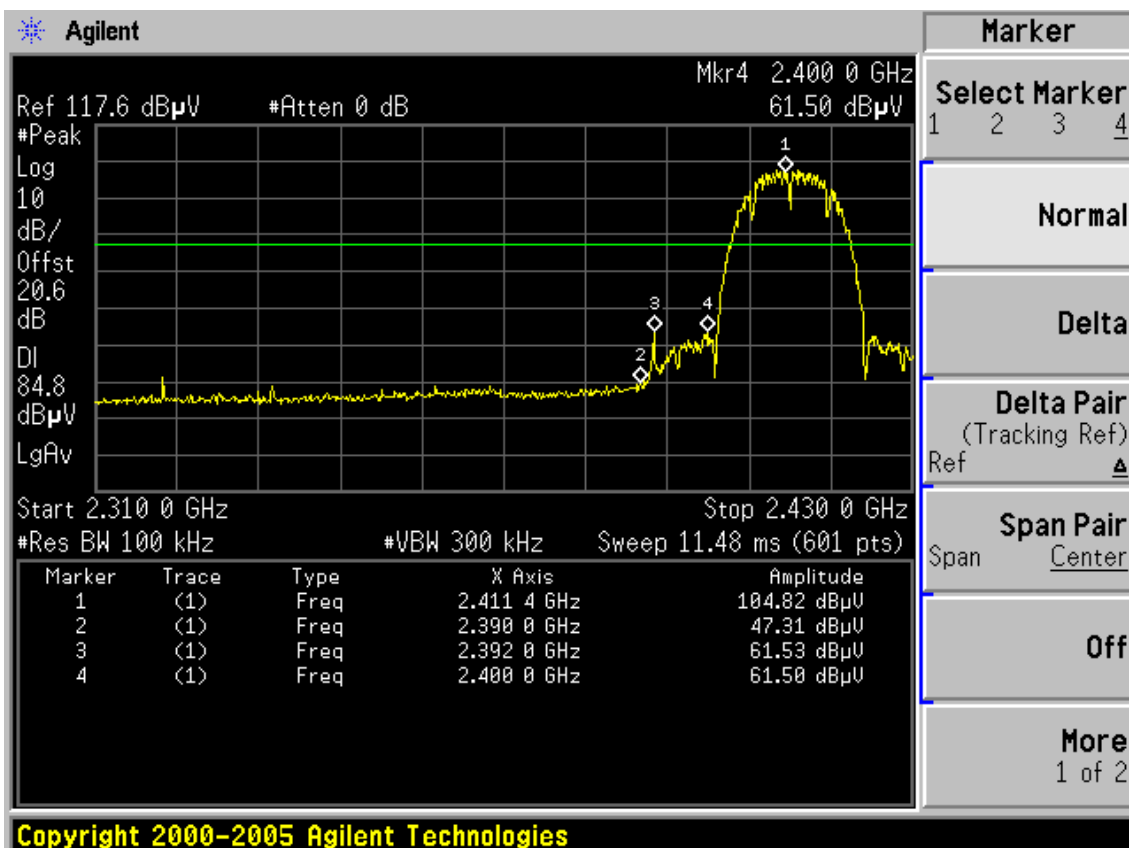
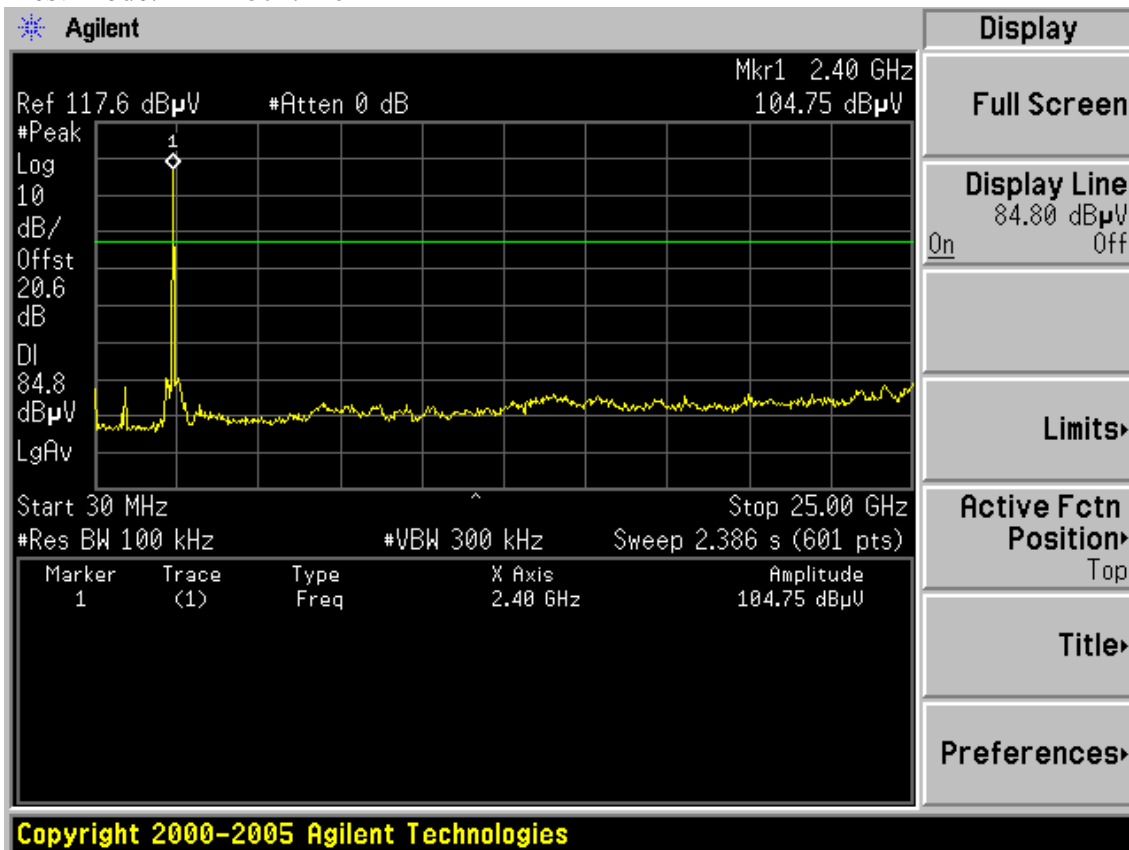


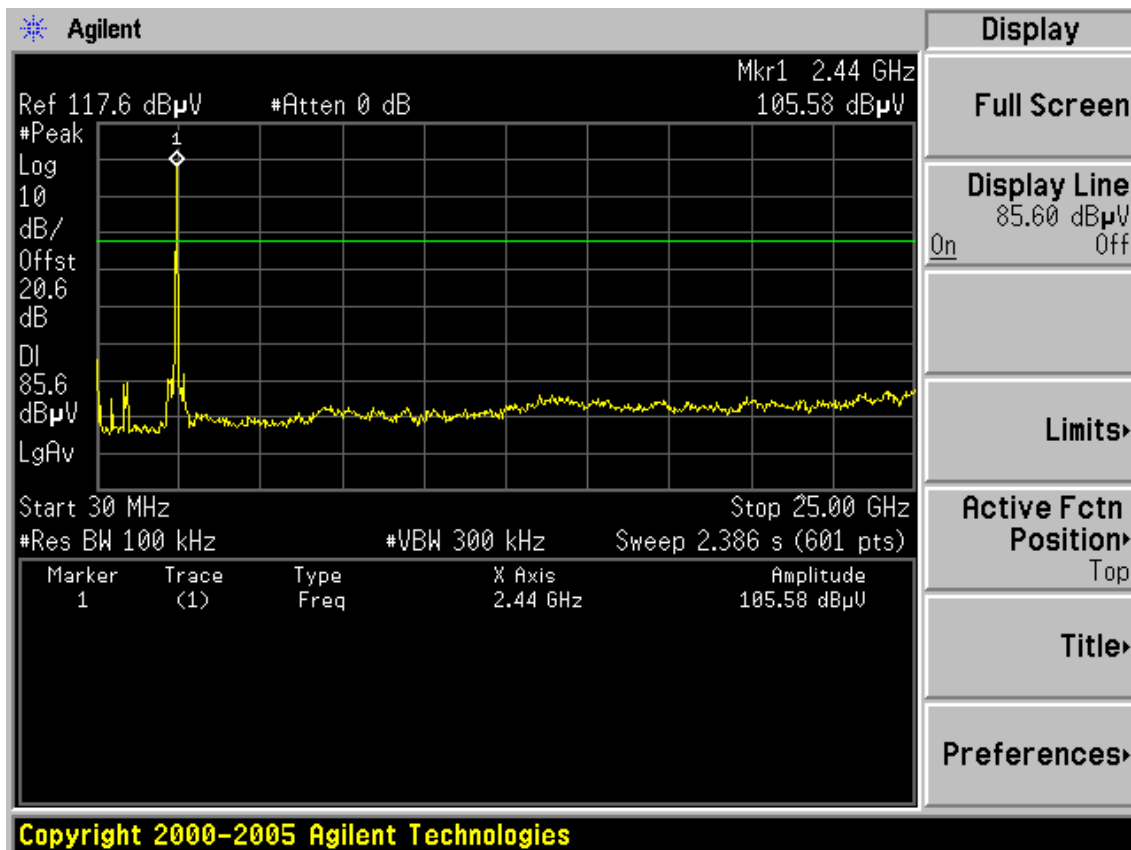
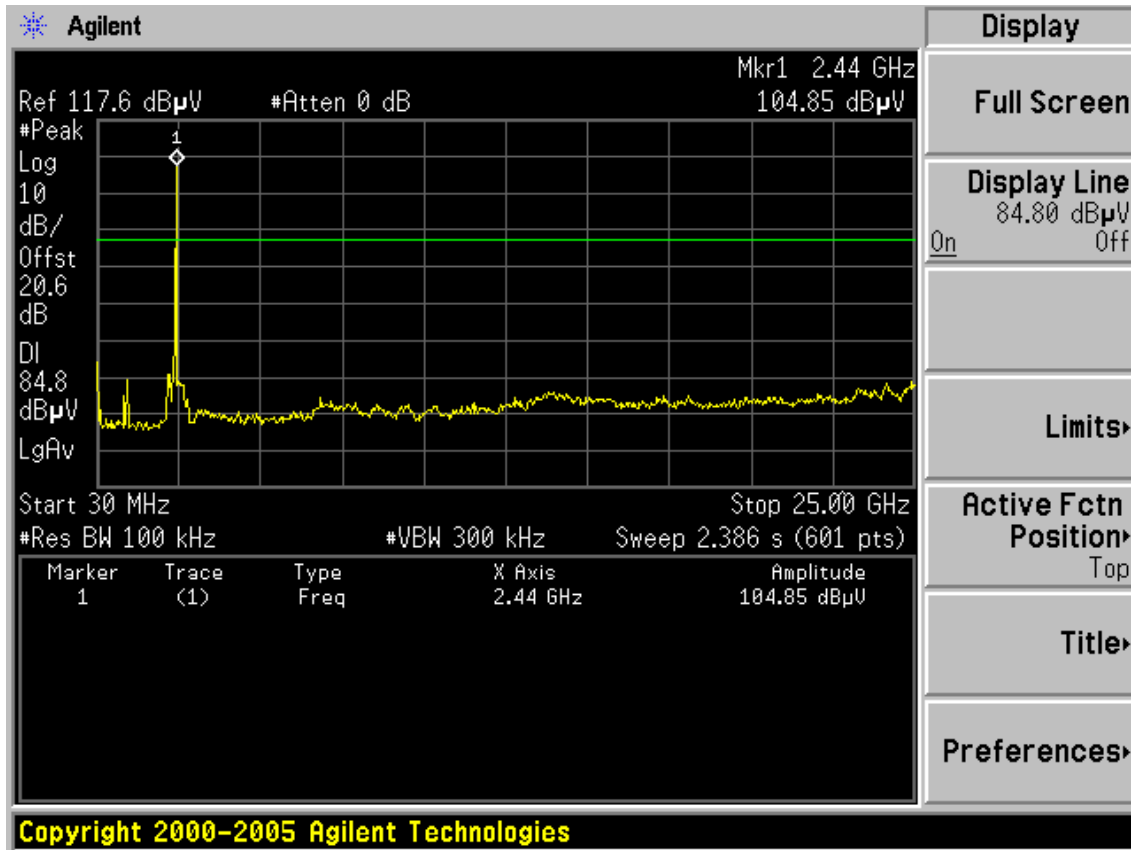


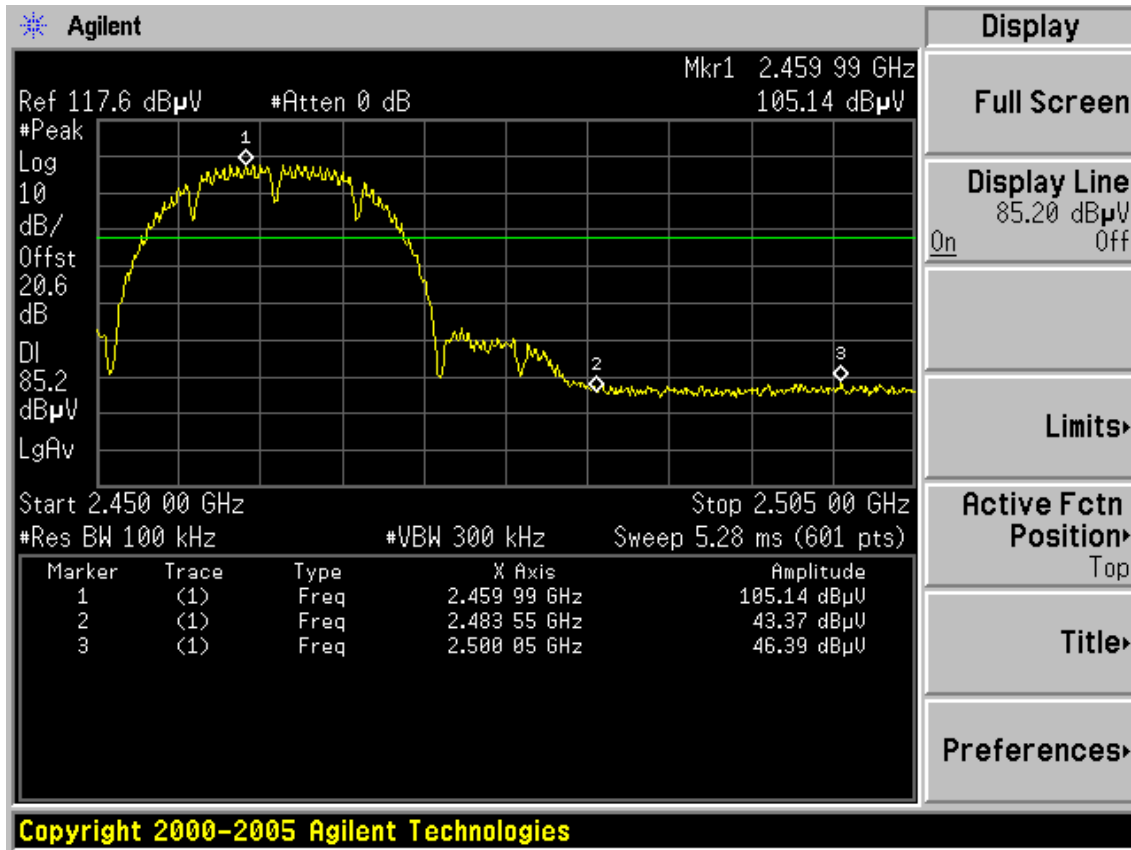


Horizontal:

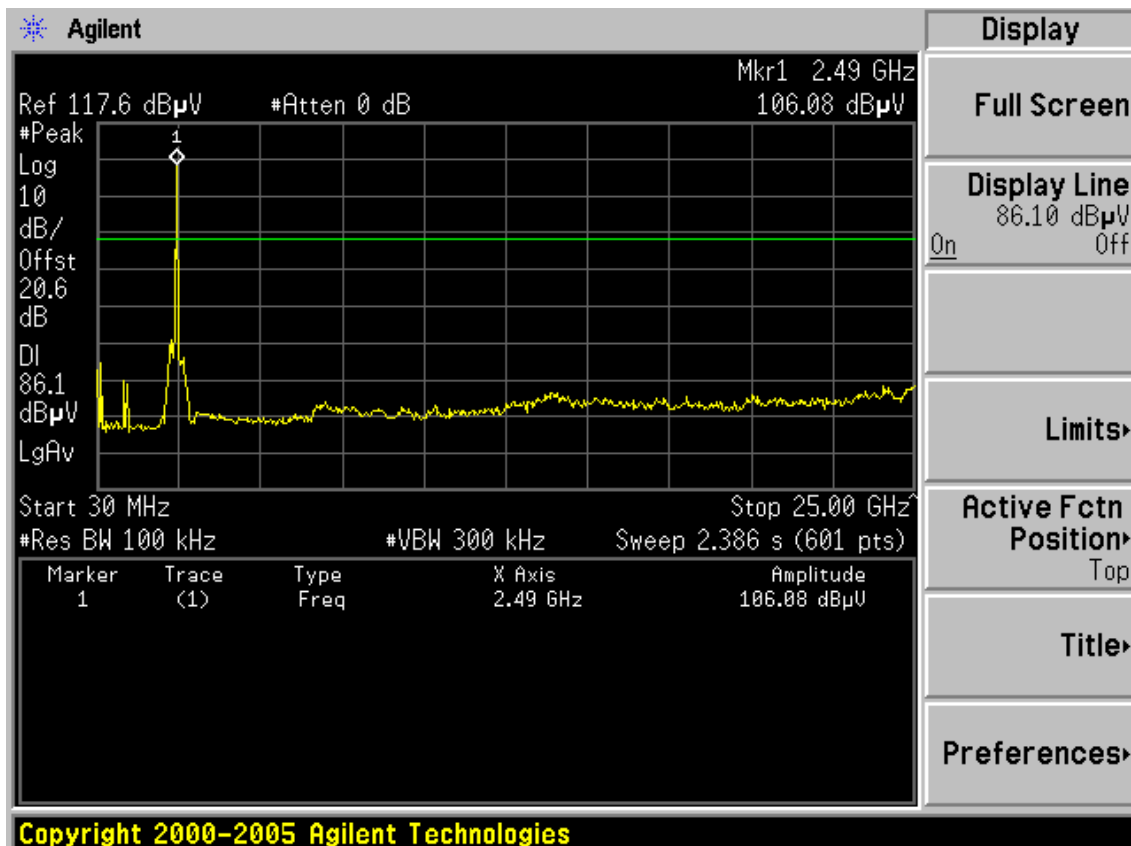
Test Mode: IEEE 802.11b TX

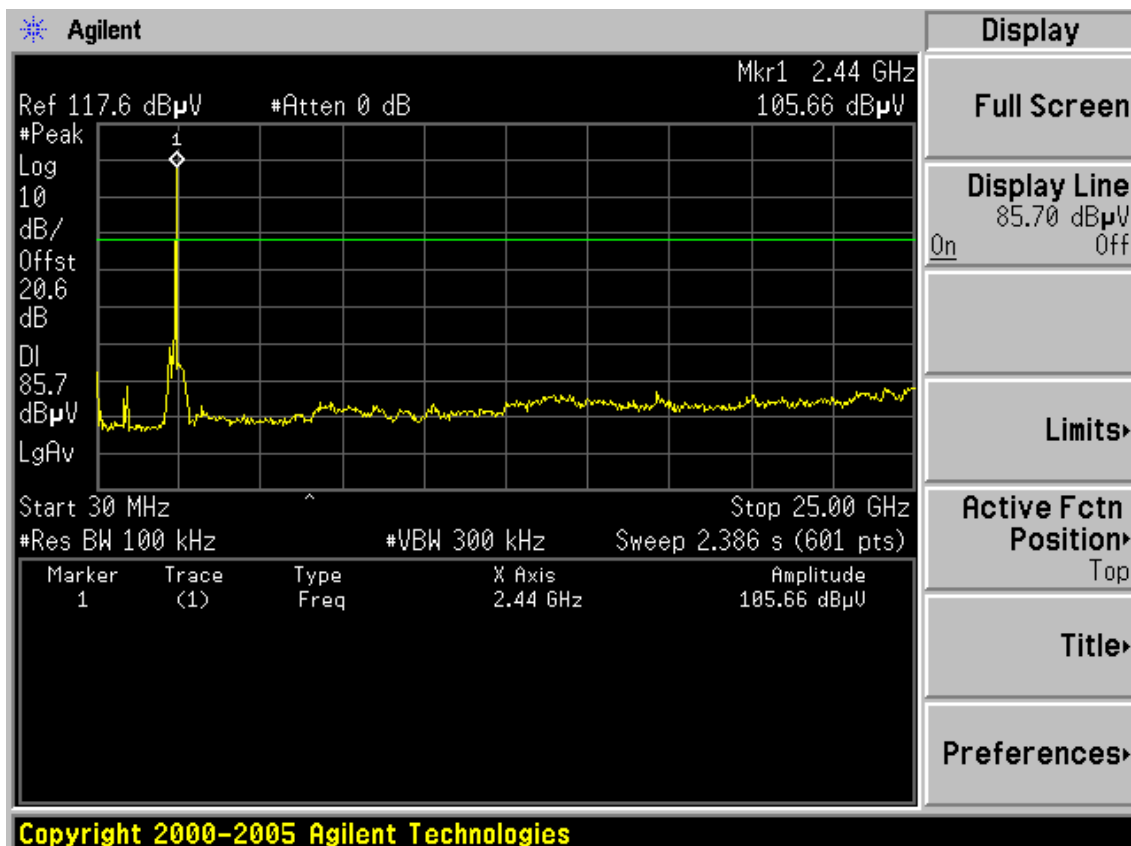
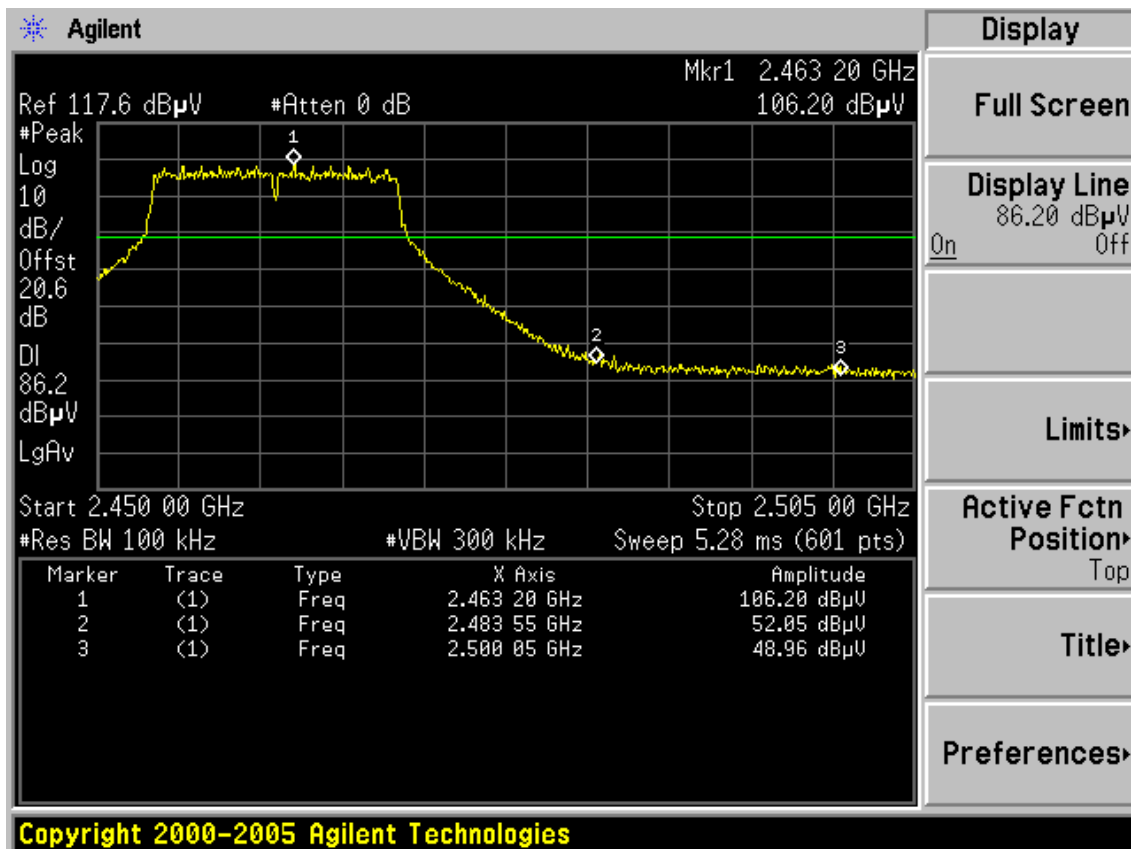


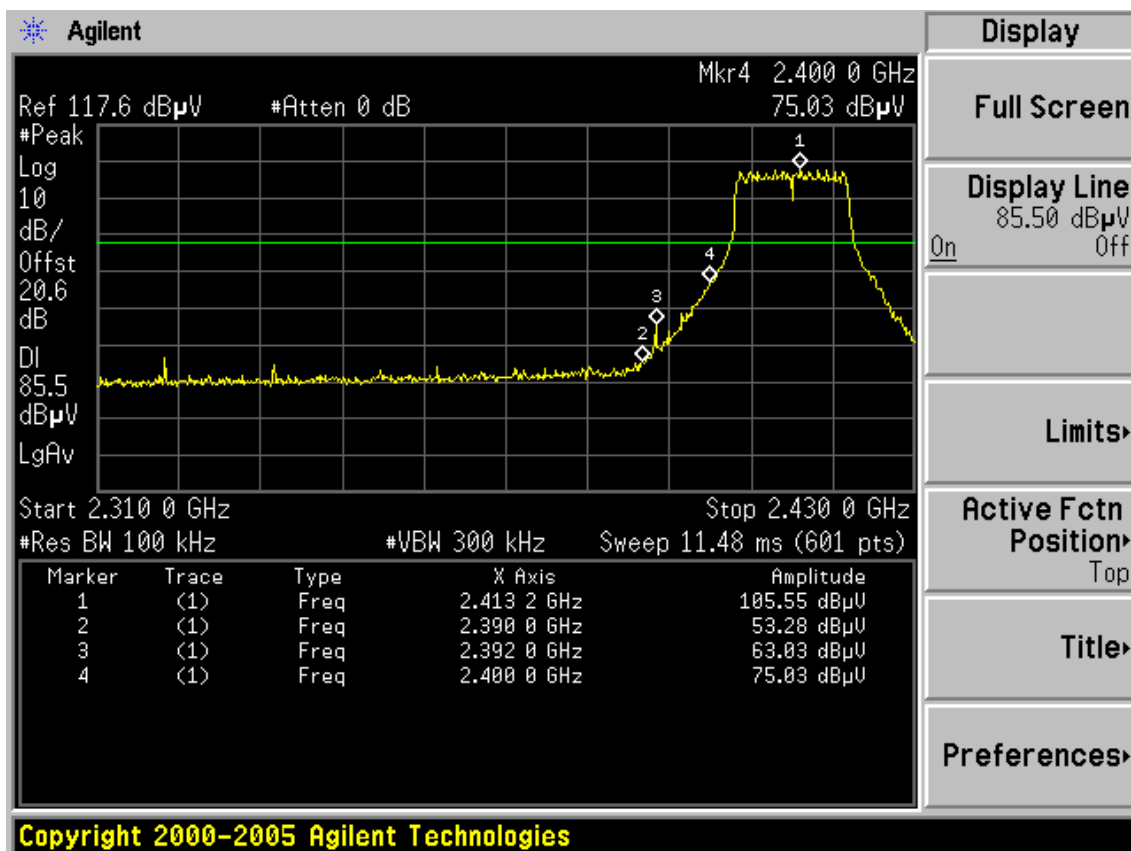
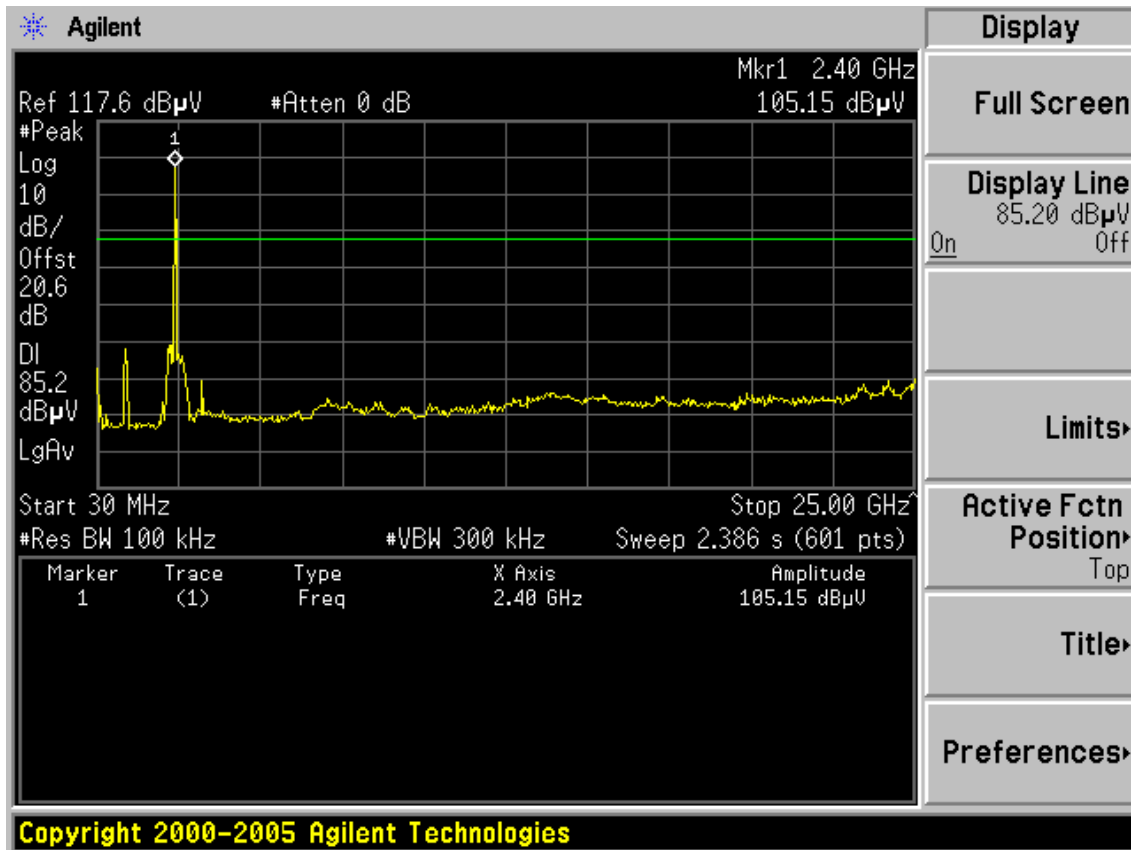




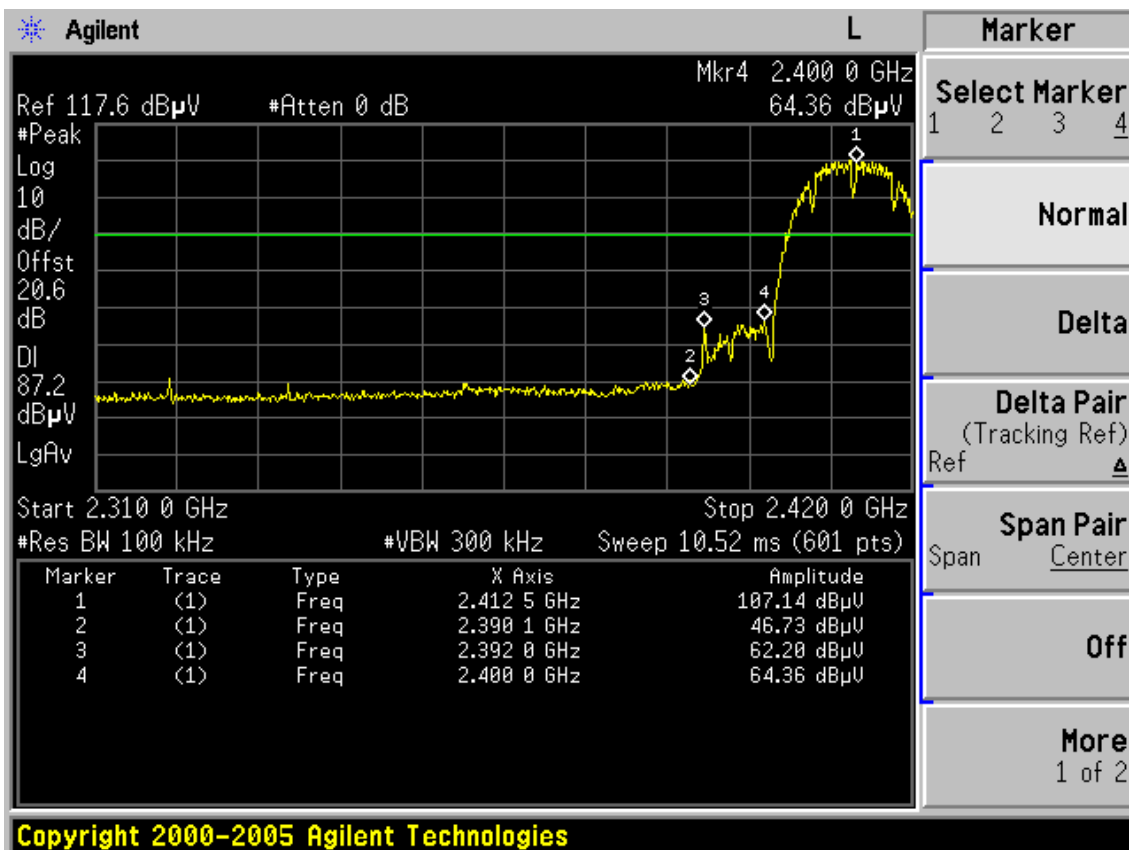
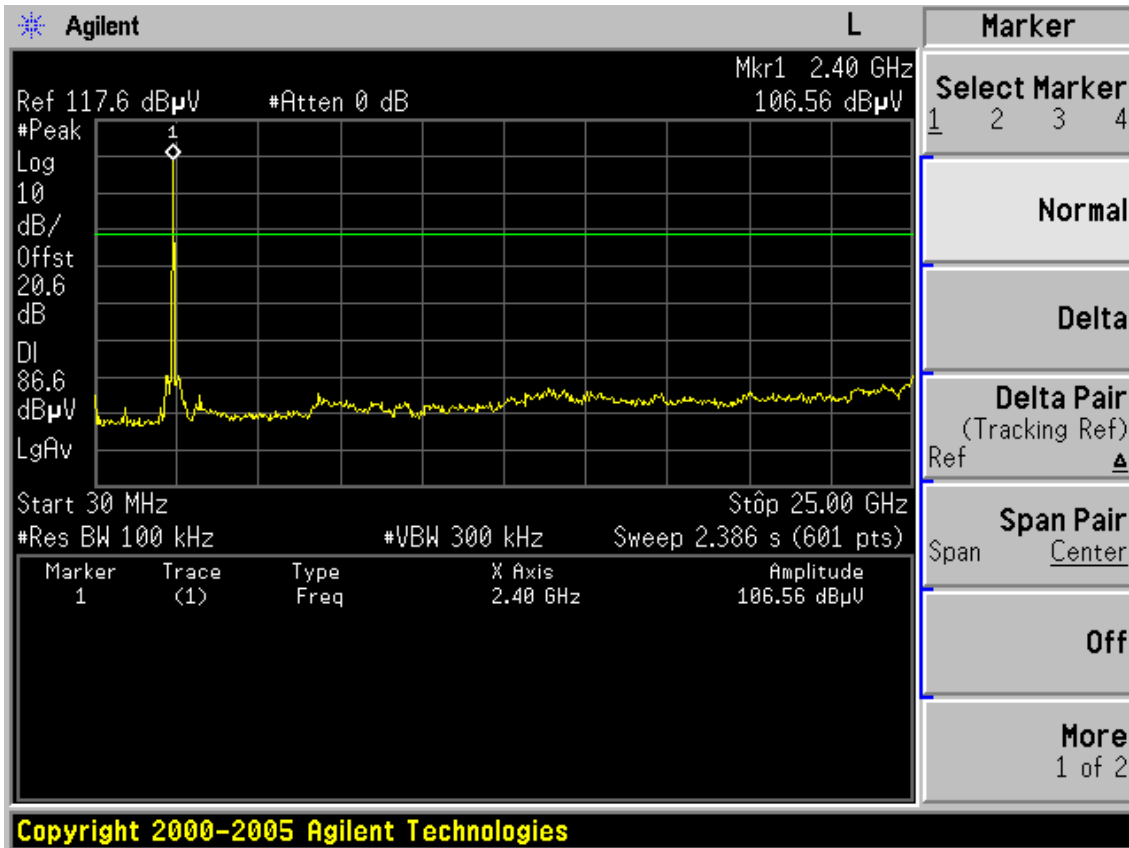
Test Mode: IEEE 802.11g TX

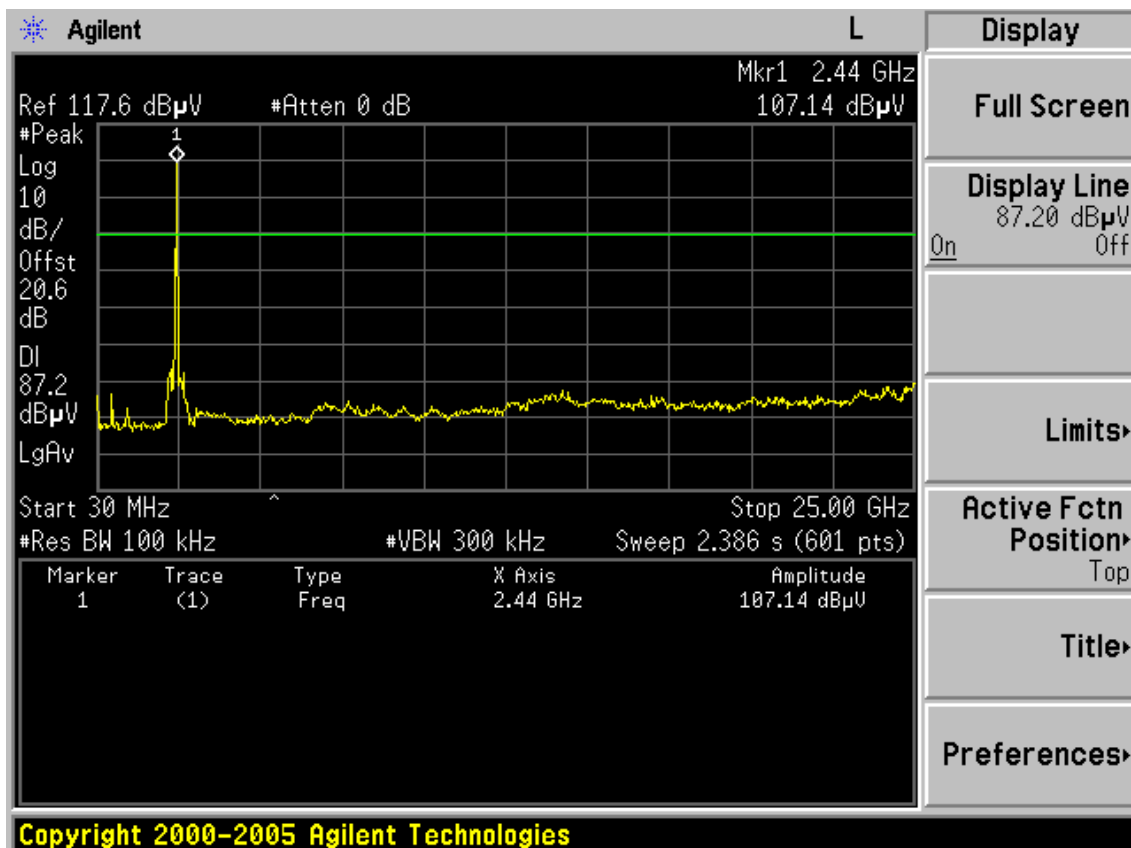
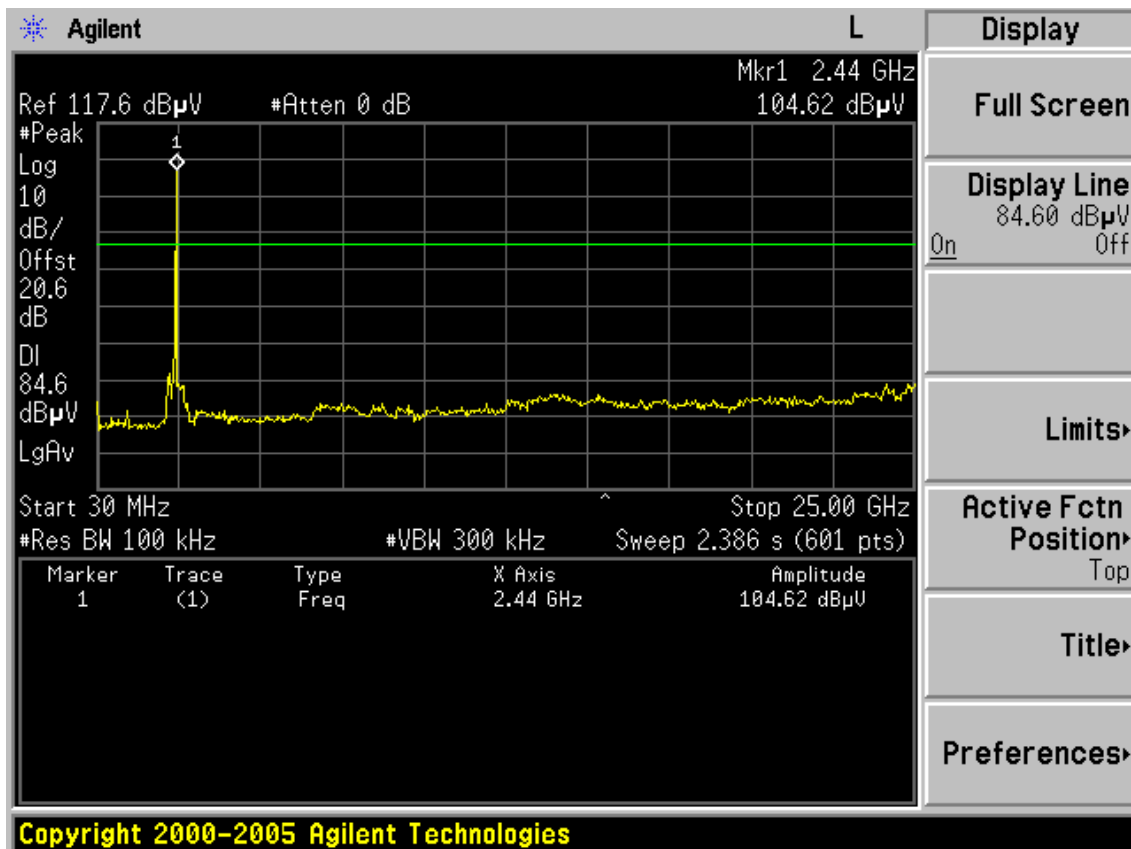


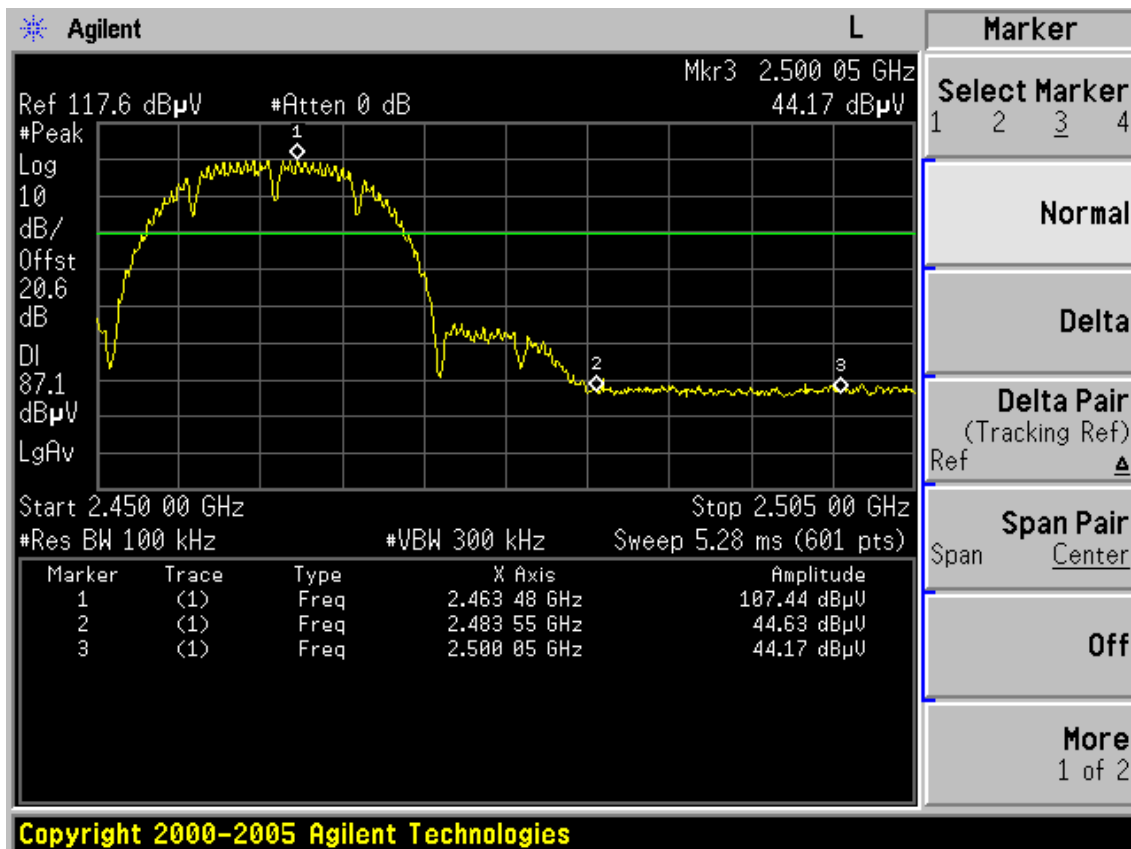




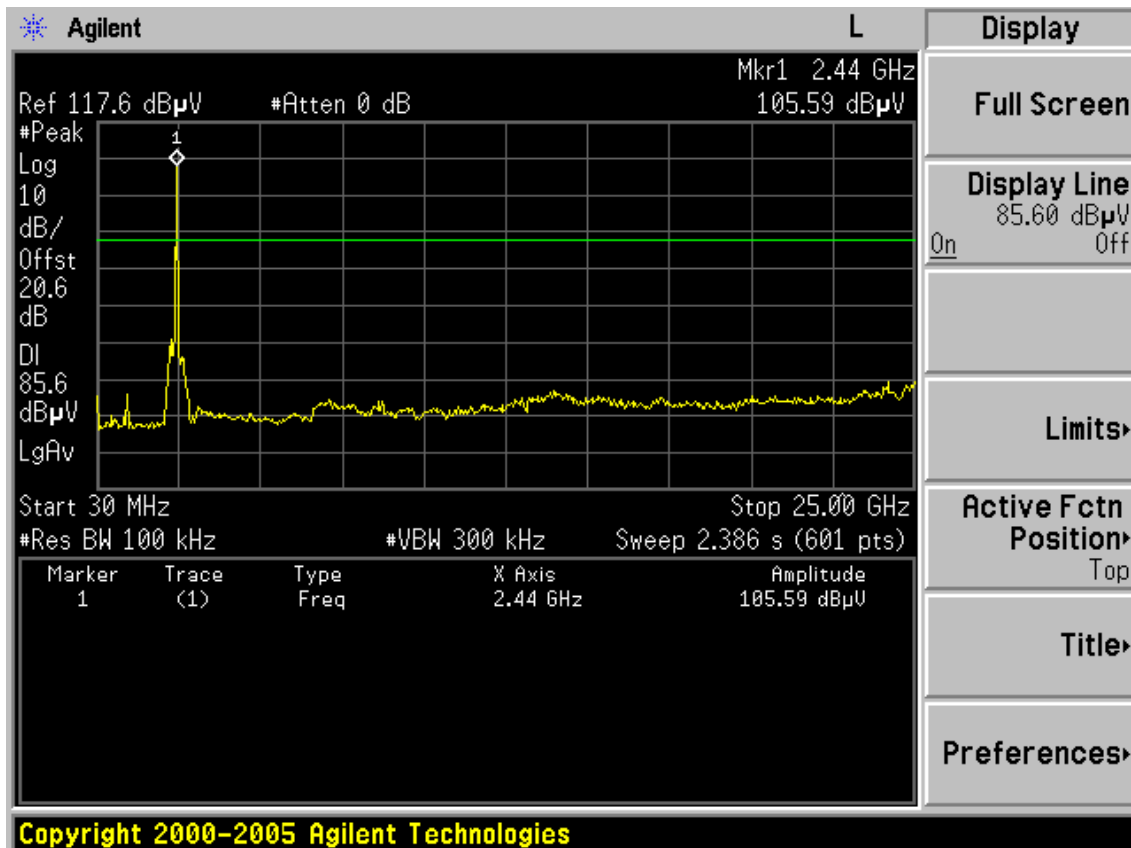
Vertical:
 Test Mode: IEEE 802.11b TX

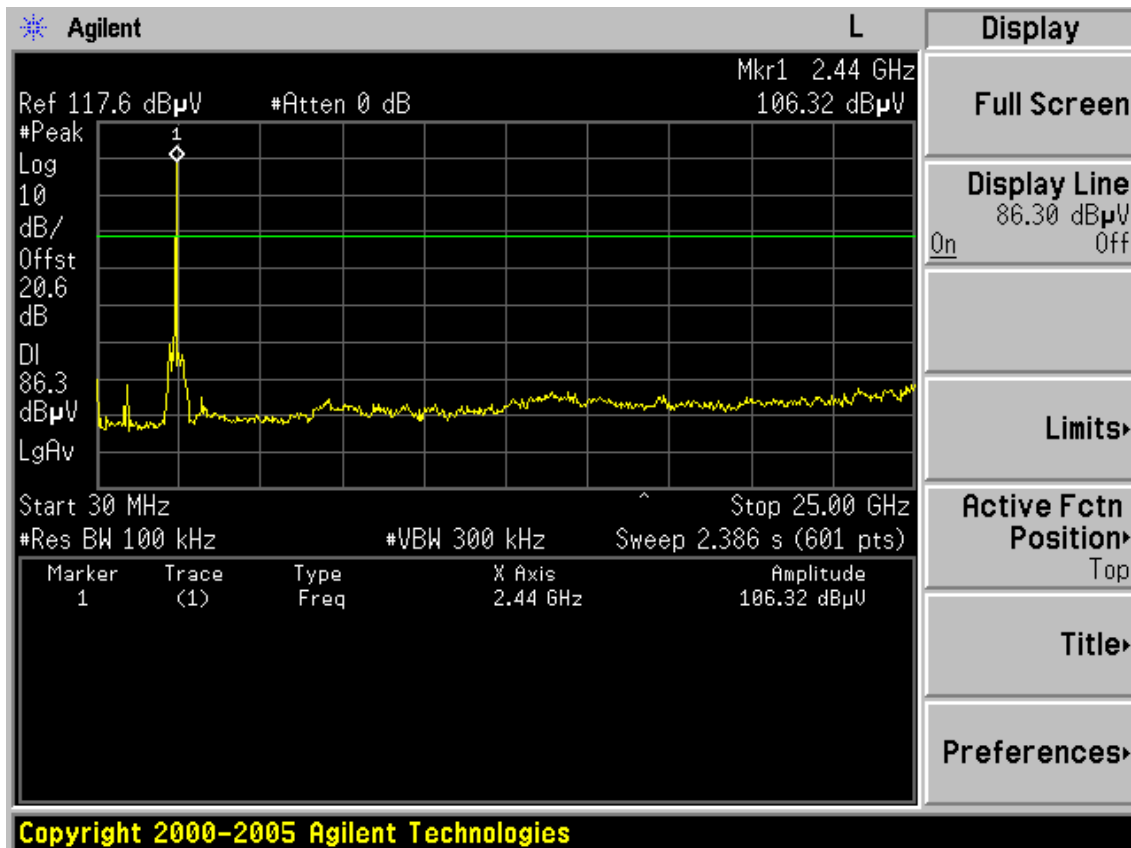
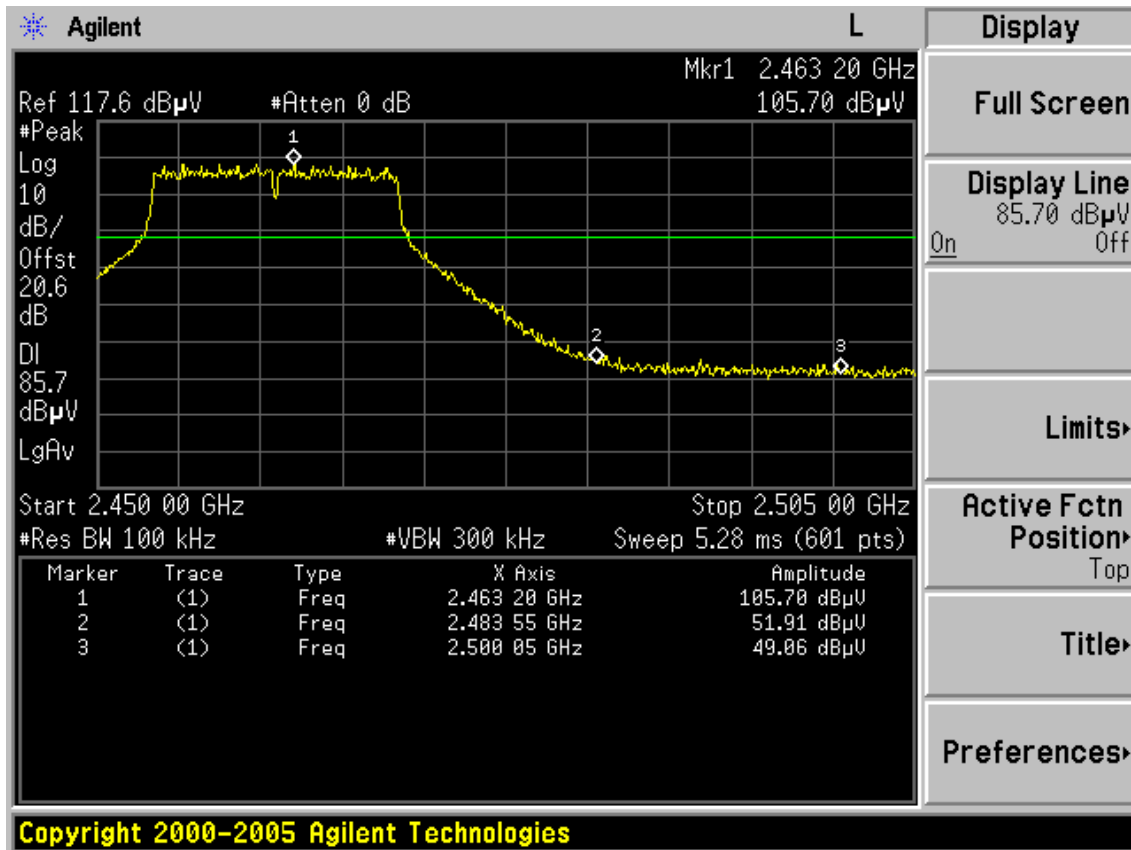


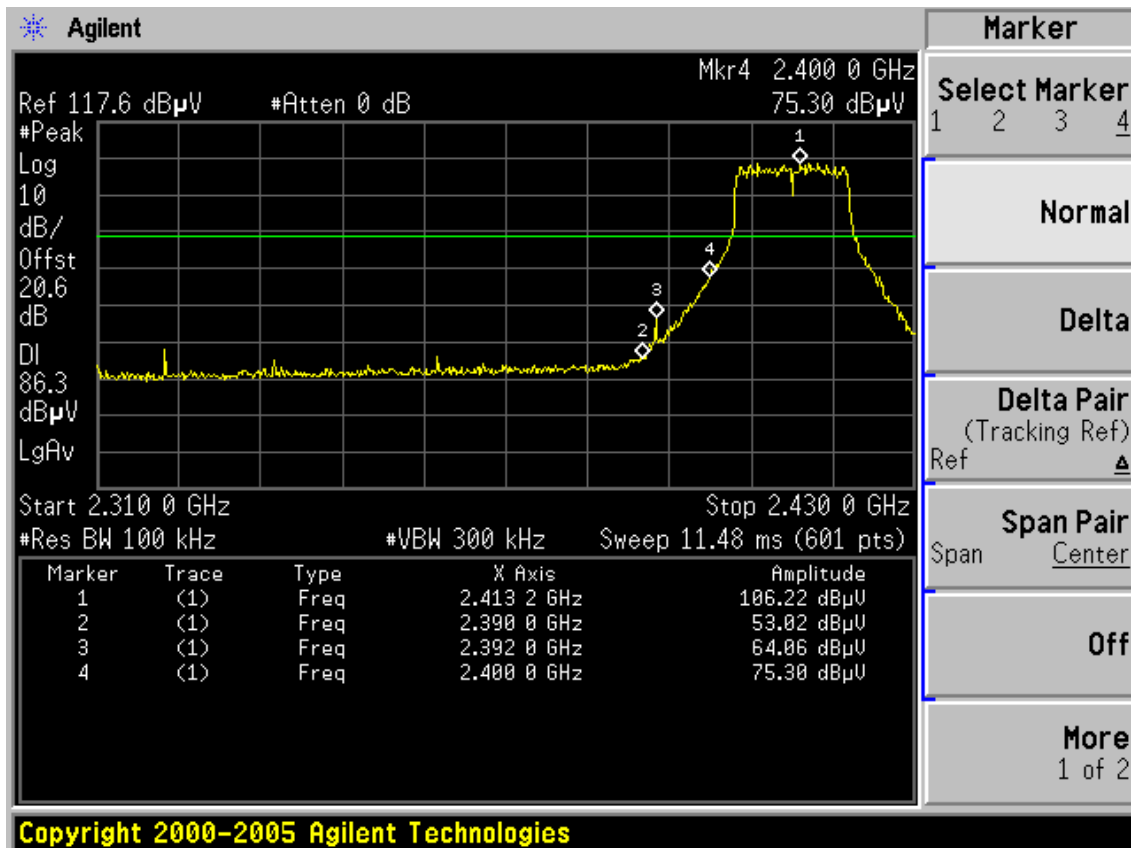
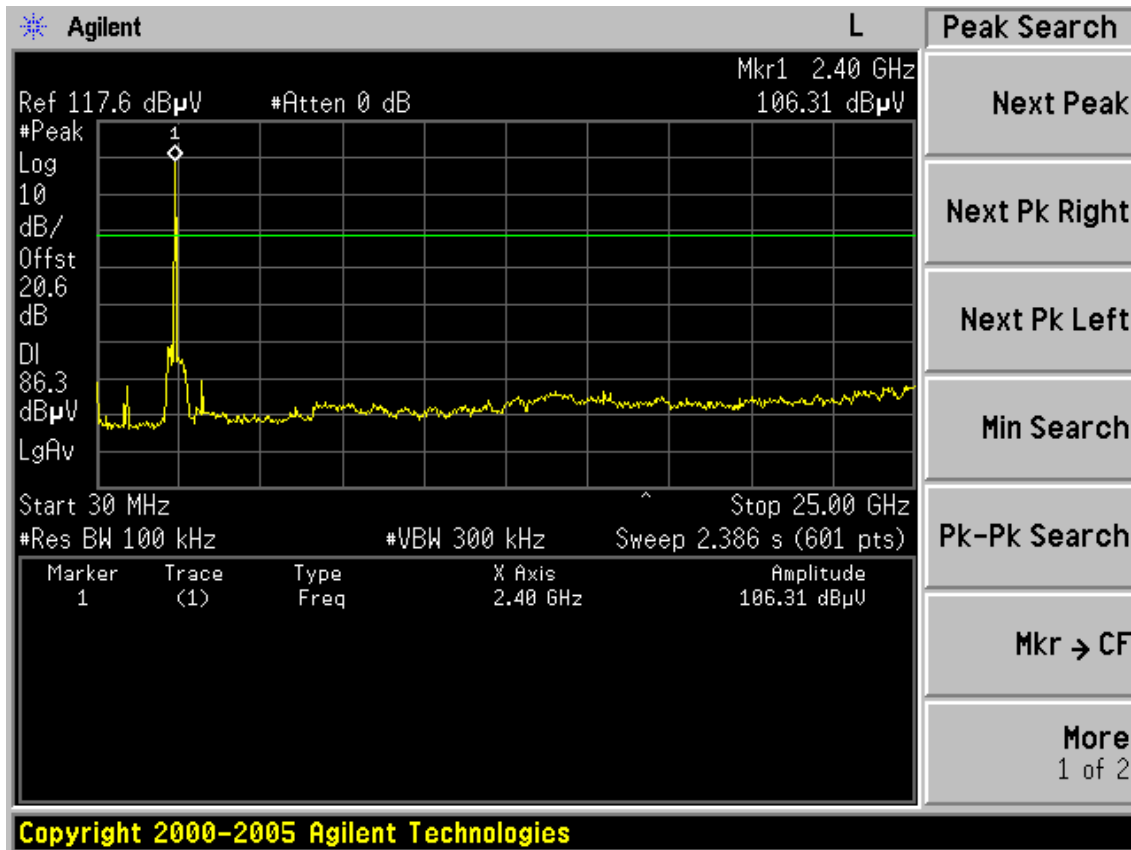




Test Mode: IEEE 802.11g TX







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, 10 | 1 Year |
| 2. | Horn Antenna | EMCO | 3115 | 9607-4877 | Nov.25, 09 | 1.5 Year |
| 3. | Amplifier | Agilent | 8449B | 3008A02495 | May.08, 10 | 1 Year |
| 4. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28620/2 | May.08, 10 | 1 Year |
| 5. | RF Cable | Hubersuhner | SUCOFLEX 102 | 271471/4 | May.08, 10 | 1 Year |
| 6. | RF Cable | Hubersuhner | SUCOFLEX 102 | 29086/2 | May.08, 10 | 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=1MHz; VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

6.4. Test Results

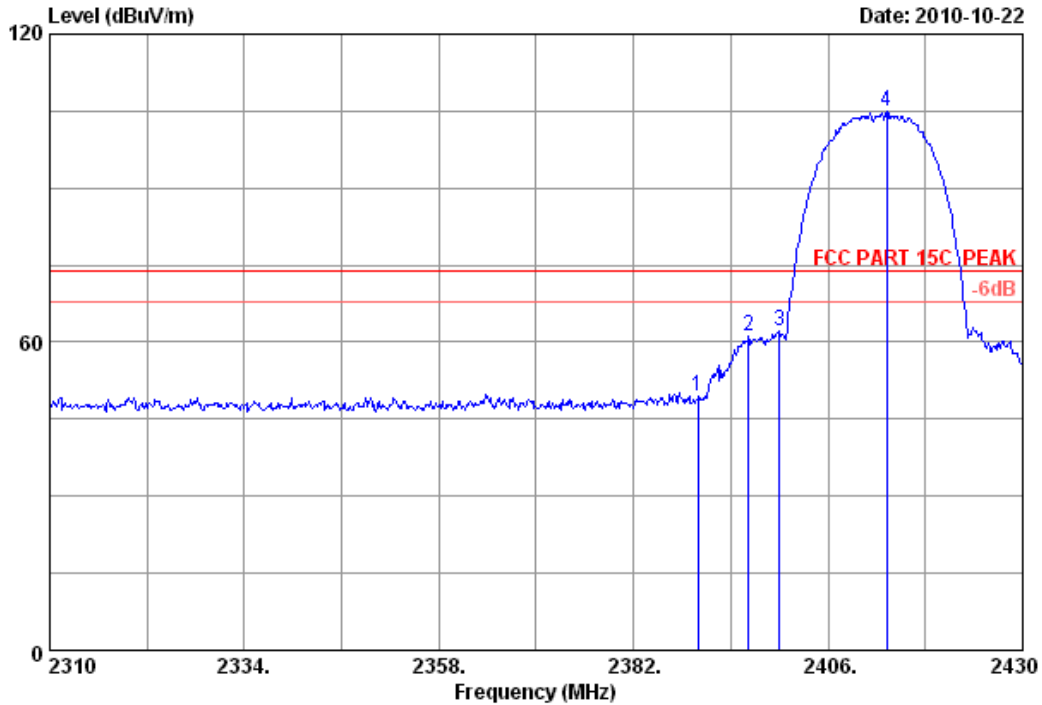
Pass (The testing data was attached in the next pages.)

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



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Postcode:518057

Data: 109 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 109
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 29.44 | 7.39 | 36.62 | 49.25 | 49.46 | 74.00 | 24.54 | Peak |
| 2 | 2396.160 | 29.44 | 7.39 | 36.62 | 61.05 | 61.26 | 74.00 | 12.74 | Peak |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 61.88 | 62.13 | 74.00 | 11.87 | Peak |
| 4 | 2413.200 | 29.45 | 7.43 | 36.62 | 104.73 | 104.99 | 74.00 | -30.99 | Peak |

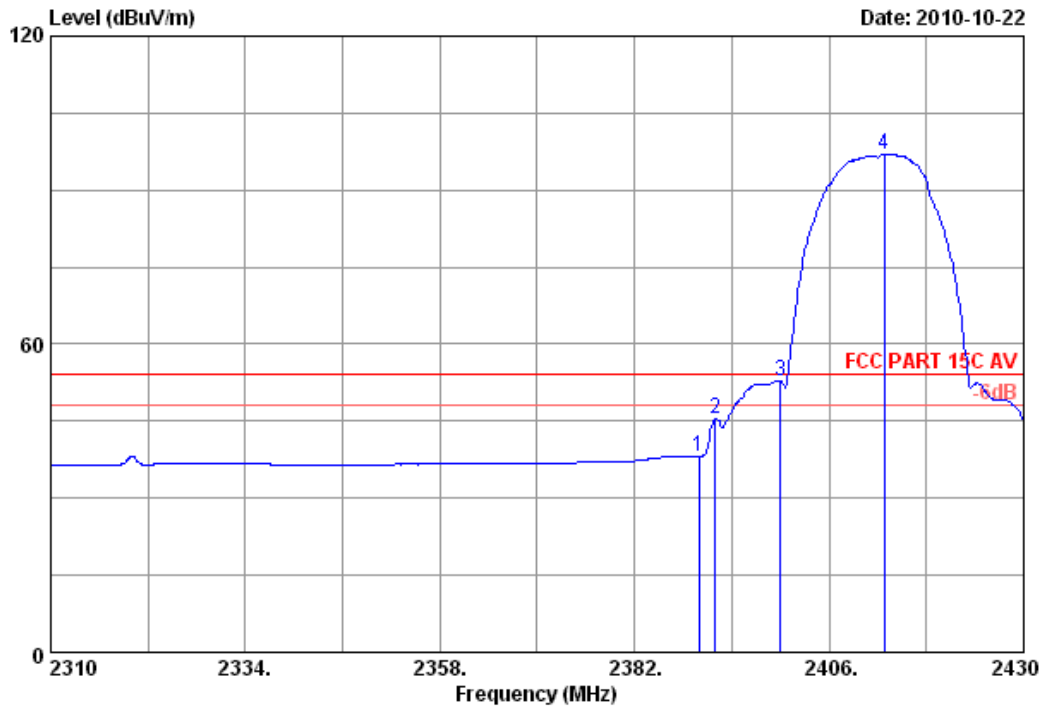
Remarks:

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: 110 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 110
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 29.44 | 7.39 | 36.62 | 37.78 | 37.99 | 54.00 | 16.01 | Average |
| 2 | 2391.960 | 29.44 | 7.39 | 36.62 | 45.41 | 45.62 | 54.00 | 8.38 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 52.62 | 52.87 | 54.00 | 1.13 | Average |
| 4 | 2412.840 | 29.45 | 7.43 | 36.62 | 96.72 | 96.98 | 54.00 | -42.98 | Average |

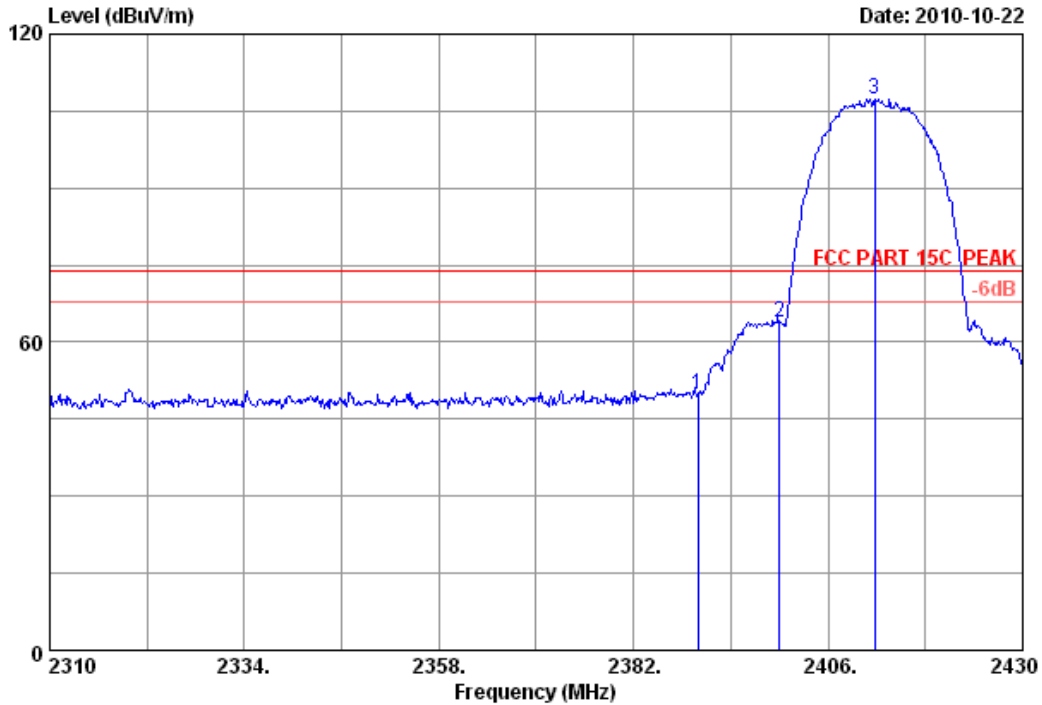
Remarks:

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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Postcode:518057

Data: 111 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 111
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2390.000 | 29.44 | 7.39 | 36.62 | 49.70 | 49.91 | 74.00 | 24.09 | Peak |
| 2 | 2400.000 | 29.44 | 7.43 | 36.62 | 63.65 | 63.90 | 74.00 | 10.10 | Peak |
| 3 | 2411.760 | 29.45 | 7.43 | 36.62 | 106.99 | 107.25 | 74.00 | -33.25 | Peak |

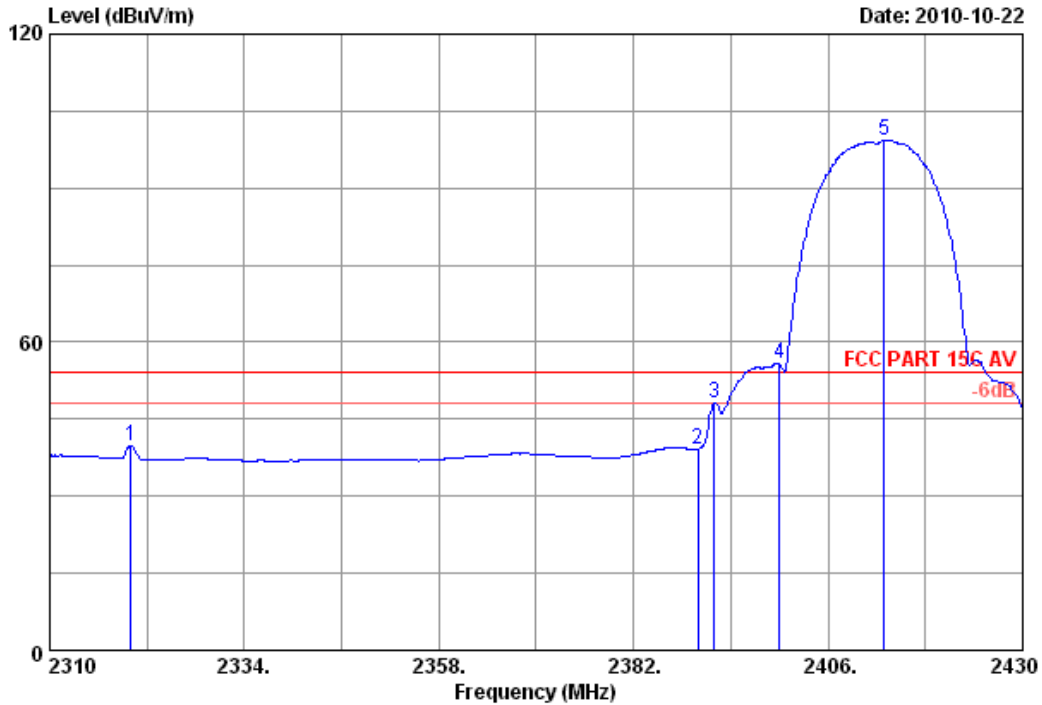
Remarks:

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: 112 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 112
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 2319.960 | 29.40 | 7.27 | 36.63 | 39.71 | 39.75 | 54.00 | 14.25 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 38.97 | 39.18 | 54.00 | 14.82 | Average |
| 3 | 2391.960 | 29.44 | 7.39 | 36.62 | 47.99 | 48.20 | 54.00 | 5.80 | Average |
| 4 | 2400.000 | 29.44 | 7.43 | 36.62 | 55.52 | 55.77 | 54.00 | -1.77 | Average |
| 5 | 2412.960 | 29.45 | 7.43 | 36.62 | 98.95 | 99.21 | 54.00 | -45.21 | Average |

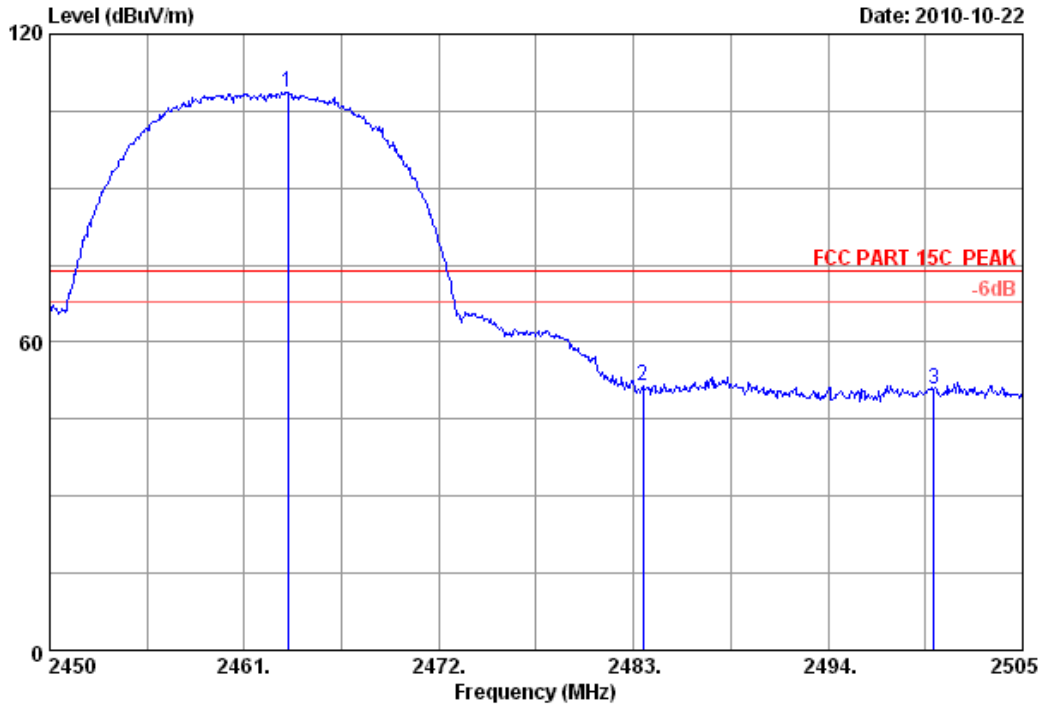
Remarks:

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: 113 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 113
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2463.475 | 29.48 | 7.54 | 36.61 | 108.19 | 108.60 | 74.00 | -34.60 | Peak |
| 2 | 2483.530 | 29.49 | 7.58 | 36.60 | 50.85 | 51.32 | 74.00 | 22.68 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 50.23 | 50.75 | 74.00 | 23.25 | Peak |

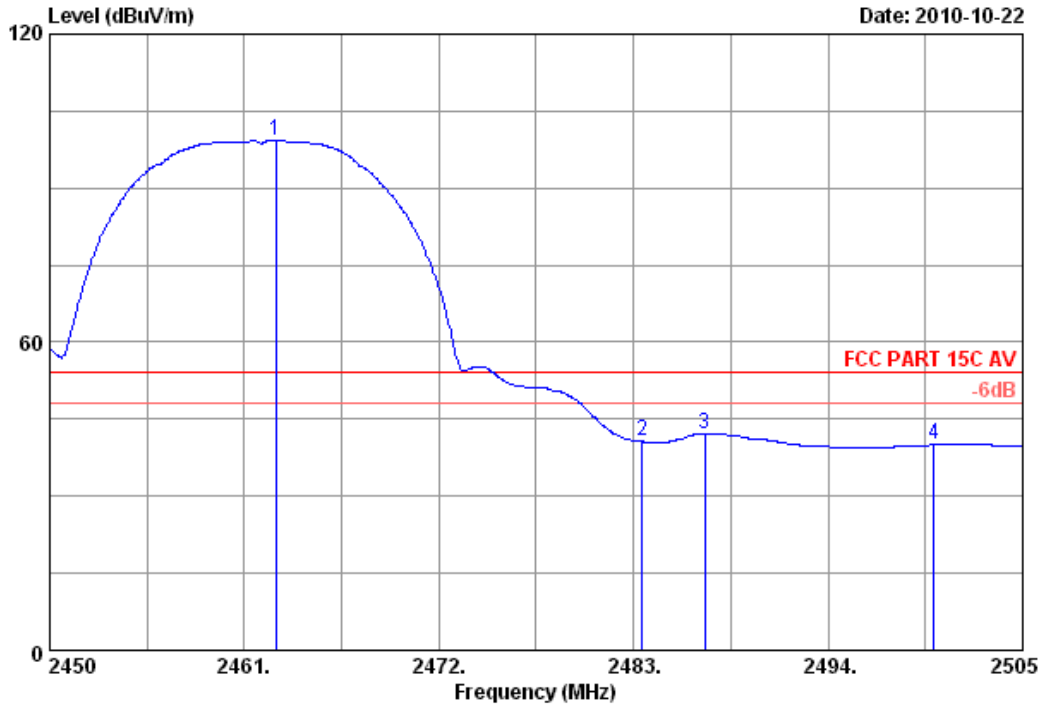
Remarks:

- 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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Postcode:518057

Data: 114 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 114
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2462.760 | 29.48 | 7.54 | 36.61 | 98.92 | 99.33 | 54.00 | -45.33 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 40.15 | 40.62 | 54.00 | 13.38 | Average |
| 3 | 2487.015 | 29.49 | 7.58 | 36.60 | 41.66 | 42.13 | 54.00 | 11.87 | Average |
| 4 | 2500.000 | 29.50 | 7.62 | 36.60 | 39.51 | 40.03 | 54.00 | 13.97 | Average |

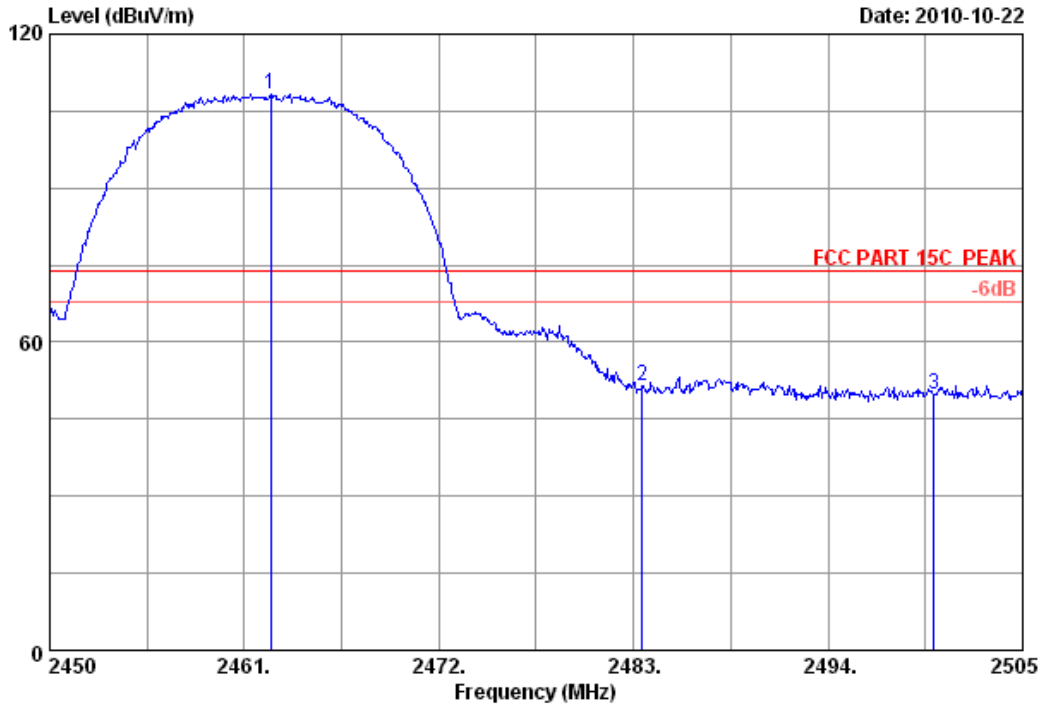
Remarks:

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: 115 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 115
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2462.485 | 29.48 | 7.54 | 36.61 | 107.94 | 108.35 | 74.00 | -34.35 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 50.86 | 51.33 | 74.00 | 22.67 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 49.27 | 49.79 | 74.00 | 24.21 | Peak |

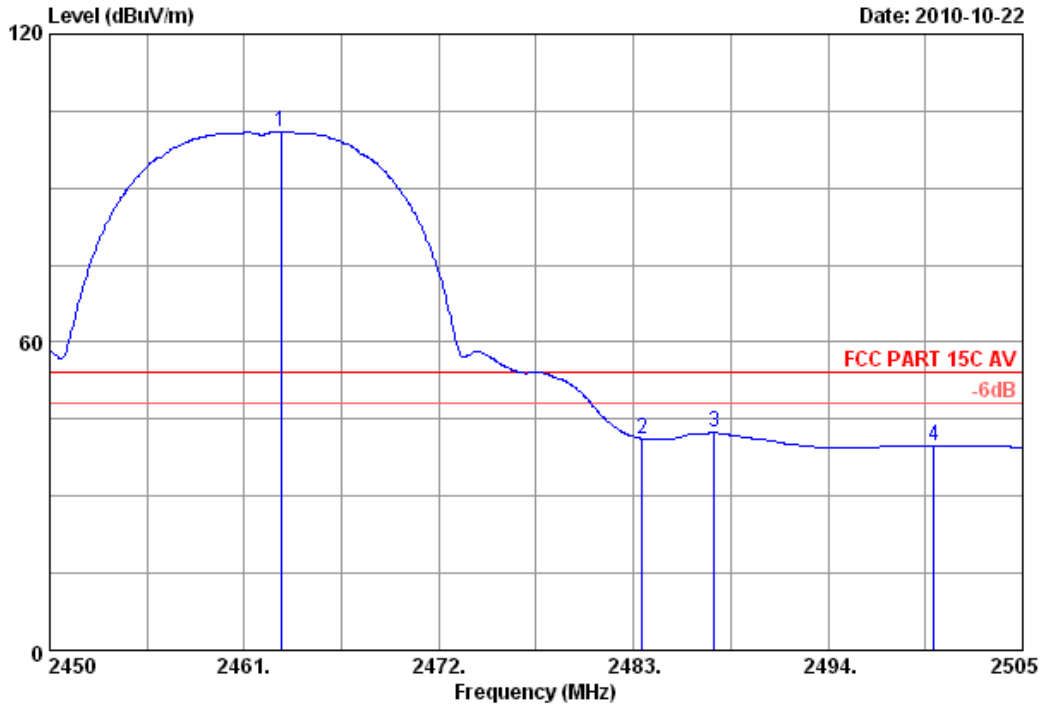
Remarks:

- 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: 116 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 116
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2463.090 | 29.48 | 7.54 | 36.61 | 100.60 | 101.01 | 54.00 | -47.01 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 40.75 | 41.22 | 54.00 | 12.78 | Average |
| 3 | 2487.565 | 29.50 | 7.58 | 36.60 | 41.98 | 42.46 | 54.00 | 11.54 | Average |
| 4 | 2500.000 | 29.50 | 7.62 | 36.60 | 39.38 | 39.90 | 54.00 | 14.10 | Average |

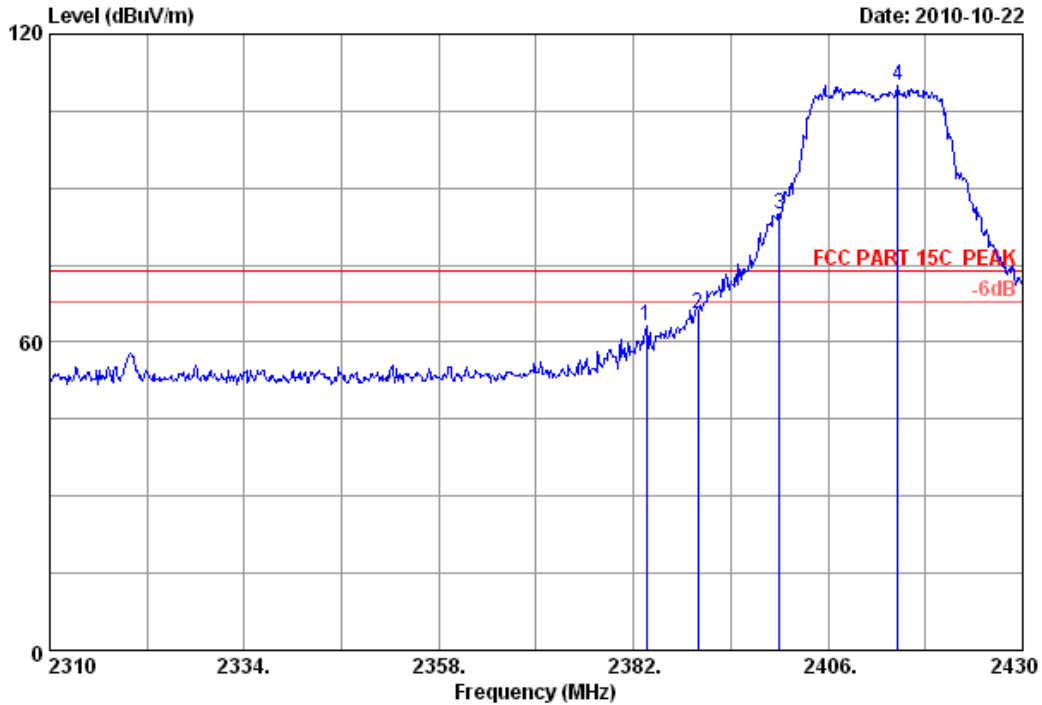
Remarks:

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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Postcode:518057

Data: 117 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 117
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2383.560 | 29.43 | 7.39 | 36.62 | 63.09 | 63.29 | 74.00 | 10.71 | Peak |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 65.46 | 65.67 | 74.00 | 8.33 | Peak |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 84.78 | 85.03 | 74.00 | -11.03 | Peak |
| 4 | 2414.640 | 29.45 | 7.43 | 36.62 | 109.86 | 110.12 | 74.00 | -36.12 | Peak |

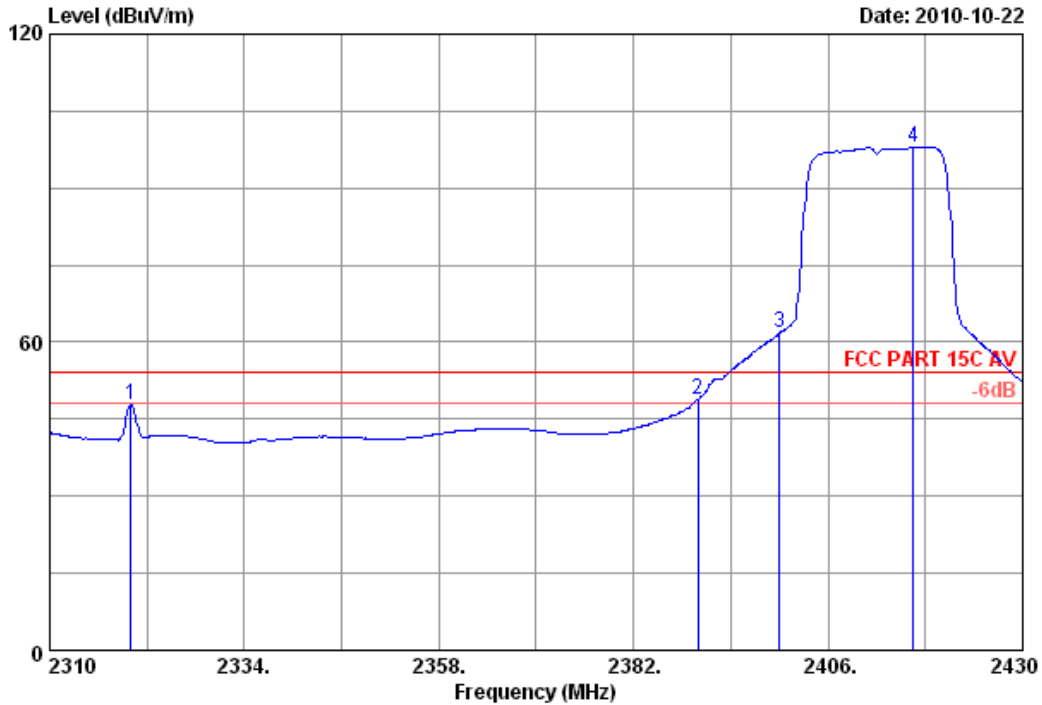
Remarks:

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: 118 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 118
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 47.66 | 47.70 | 54.00 | 6.30 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 48.67 | 48.88 | 54.00 | 5.12 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 61.57 | 61.82 | 54.00 | -7.82 | Average |
| 4 | 2416.560 | 29.45 | 7.43 | 36.61 | 97.60 | 97.87 | 54.00 | -43.87 | Average |

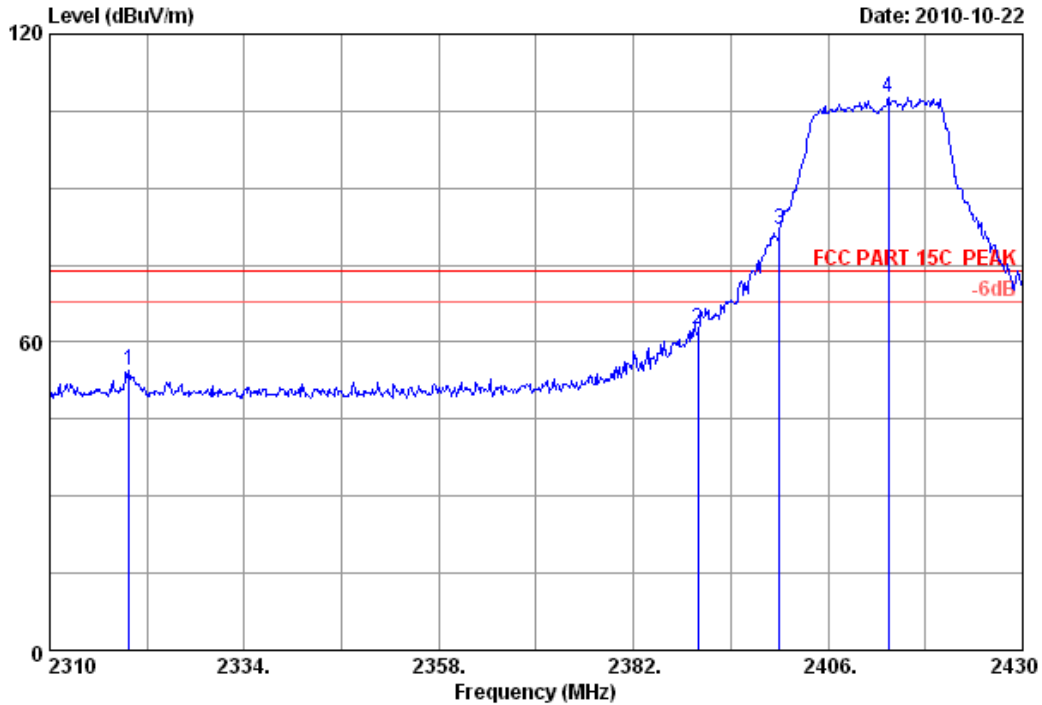
Remarks:

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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Postcode:518057

Data: 119 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 119
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2319.840 | 29.40 | 7.27 | 36.63 | 54.34 | 54.38 | 74.00 | 19.62 | Peak |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 62.31 | 62.52 | 74.00 | 11.48 | Peak |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 81.81 | 82.06 | 74.00 | -8.06 | Peak |
| 4 | 2413.440 | 29.45 | 7.43 | 36.62 | 107.33 | 107.59 | 74.00 | -33.59 | Peak |

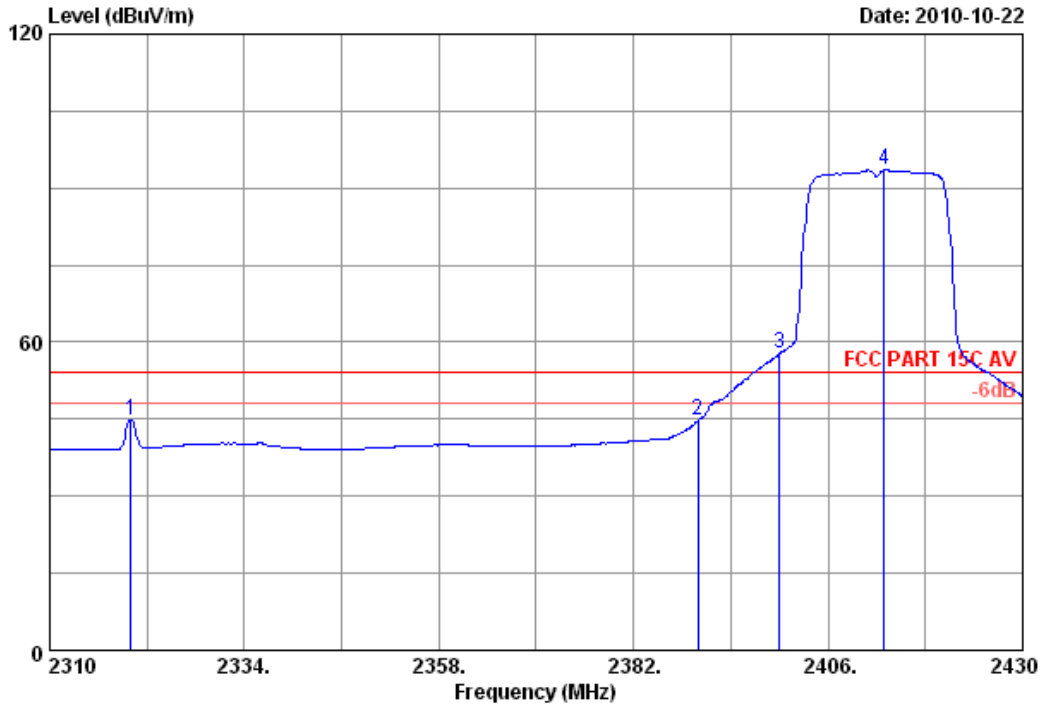
Remarks:

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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Data: 120 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 120
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 44.80 | 44.84 | 54.00 | 9.16 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 44.51 | 44.72 | 54.00 | 9.28 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 57.63 | 57.88 | 54.00 | -3.88 | Average |
| 4 | 2412.960 | 29.45 | 7.43 | 36.62 | 93.21 | 93.47 | 54.00 | -39.47 | Average |

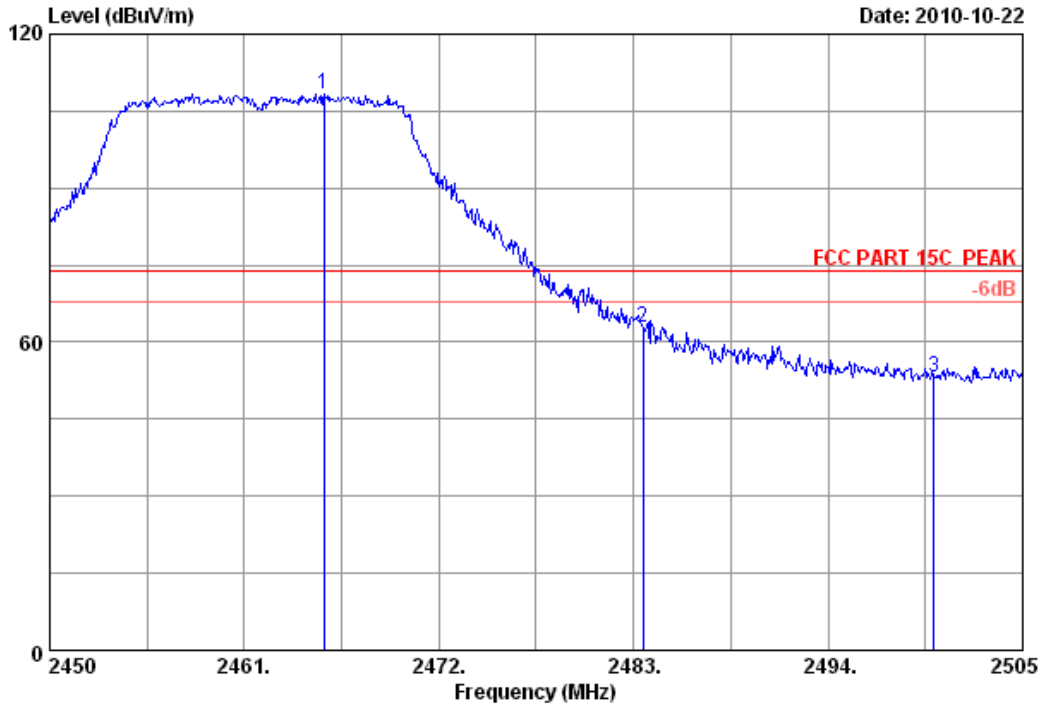
Remarks:

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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Data: 121 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 121
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2465.510 | 29.48 | 7.54 | 36.61 | 107.99 | 108.40 | 74.00 | -34.40 | Peak |
| 2 | 2483.530 | 29.49 | 7.58 | 36.60 | 62.33 | 62.80 | 74.00 | 11.20 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 52.79 | 53.31 | 74.00 | 20.69 | Peak |

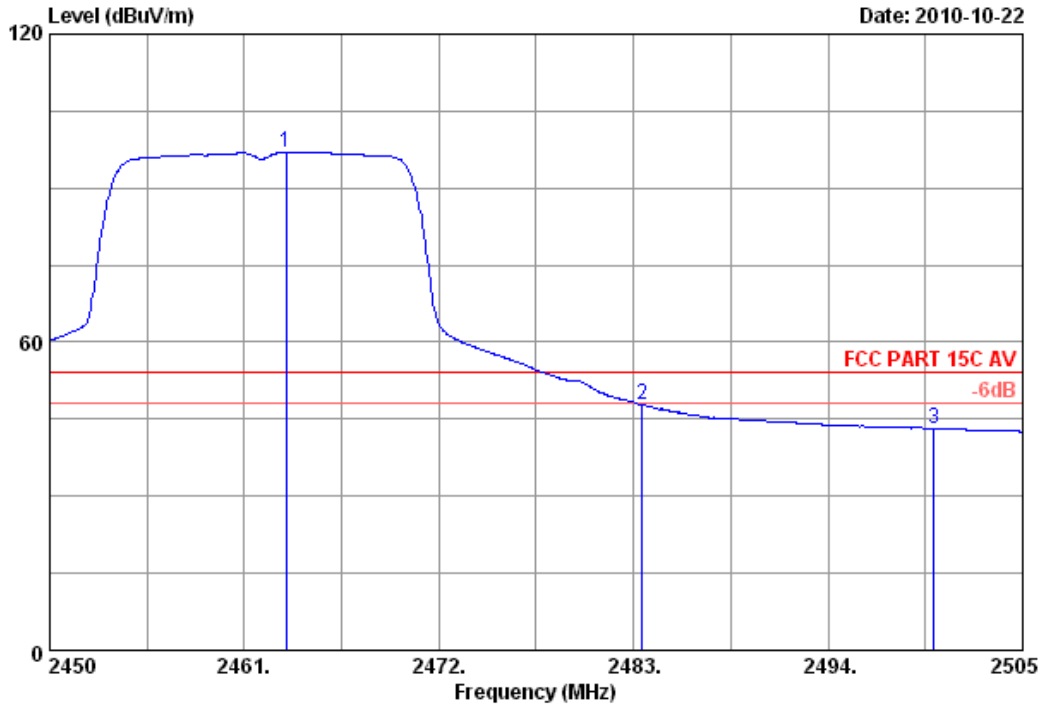
Remarks:

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: 122 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 122
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2463.365 | 29.48 | 7.54 | 36.61 | 96.48 | 96.89 | 54.00 | -42.89 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 47.37 | 47.84 | 54.00 | 6.16 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 42.63 | 43.15 | 54.00 | 10.85 | Average |

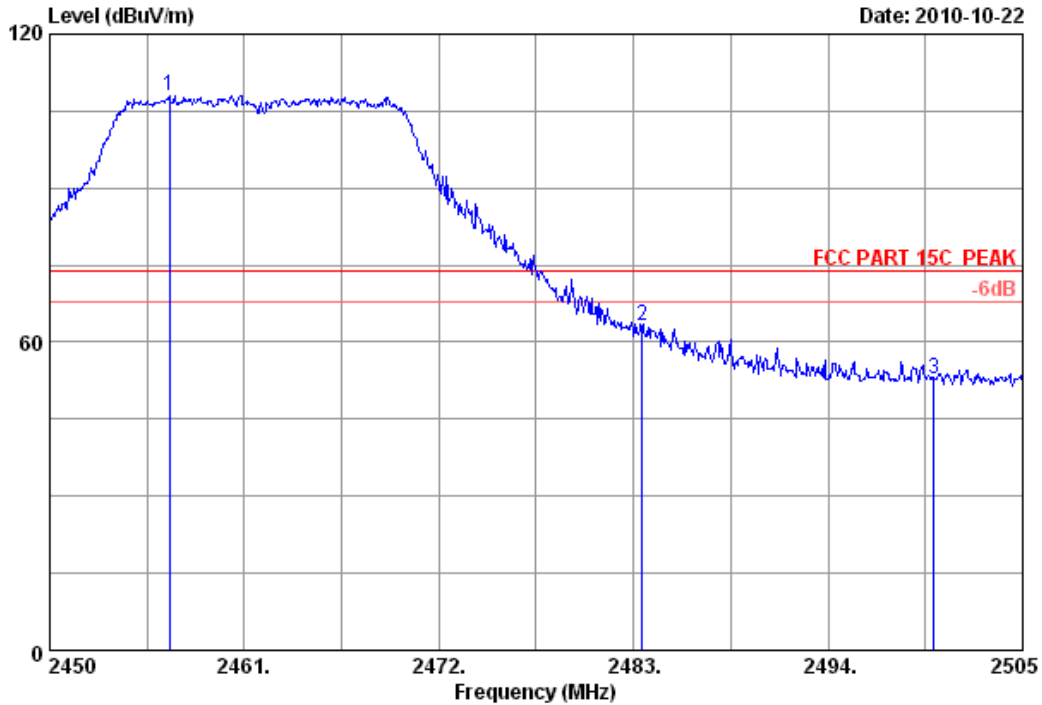
Remarks:

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: 123 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 123
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2456.765 | 29.48 | 7.50 | 36.61 | 107.74 | 108.11 | 74.00 | -34.11 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 62.80 | 63.27 | 74.00 | 10.73 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 52.45 | 52.97 | 74.00 | 21.03 | Peak |

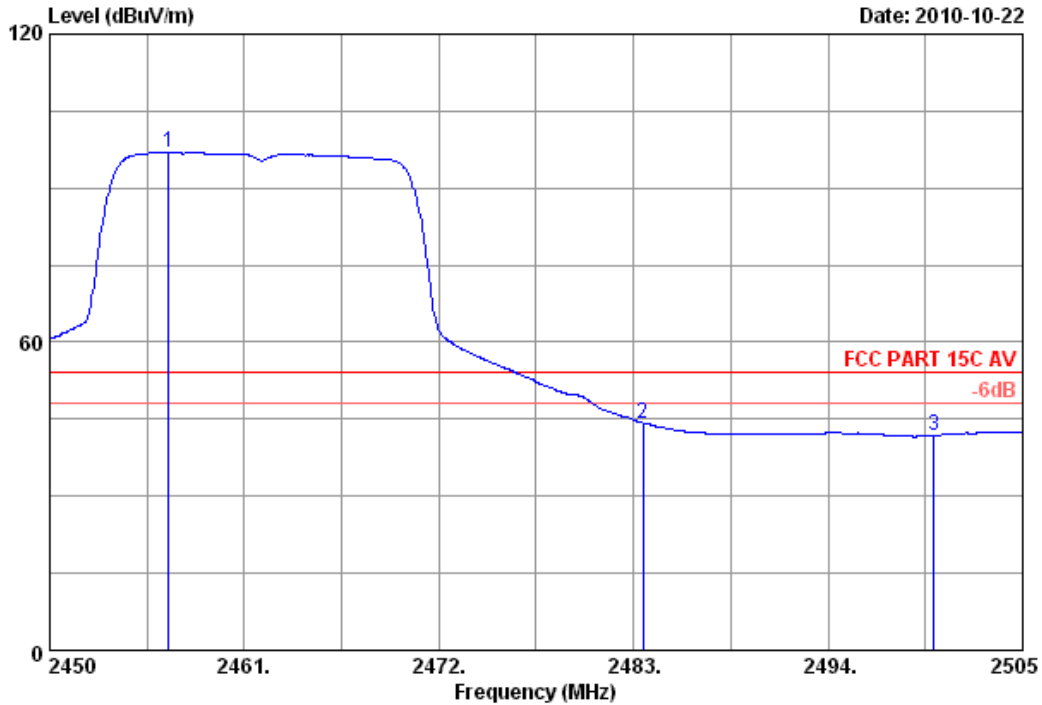
Remarks:

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: 124 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 124
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_VERTICAL

| | Ant. 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 | 2456.710 | 29.48 | 7.50 | 36.61 | 96.62 | 96.99 | 54.00 | -42.99 | Average |
| 2 | 2483.530 | 29.49 | 7.58 | 36.60 | 43.76 | 44.23 | 54.00 | 9.77 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 41.36 | 41.88 | 54.00 | 12.12 | Average |

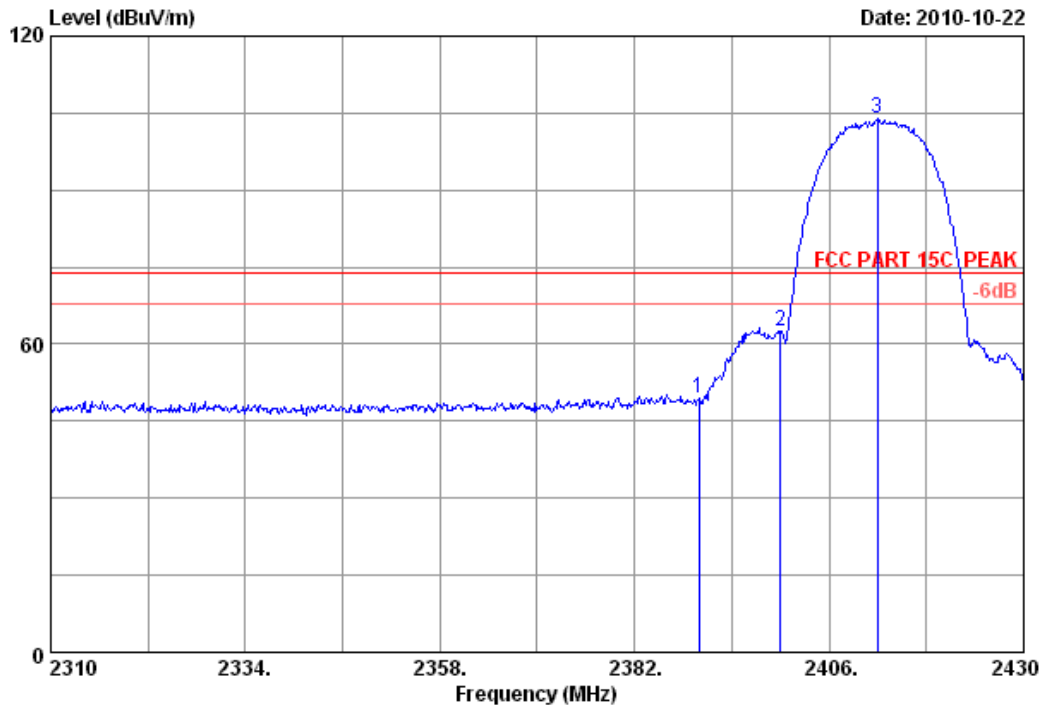
Remarks:

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



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Data: 125 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 125
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2390.000 | 29.44 | 7.39 | 36.62 | 49.36 | 49.57 | 74.00 | 24.43 | Peak |
| 2 | 2400.000 | 29.44 | 7.43 | 36.62 | 62.41 | 62.66 | 74.00 | 11.34 | Peak |
| 3 | 2412.000 | 29.45 | 7.43 | 36.62 | 103.56 | 103.82 | 74.00 | -29.82 | Peak |

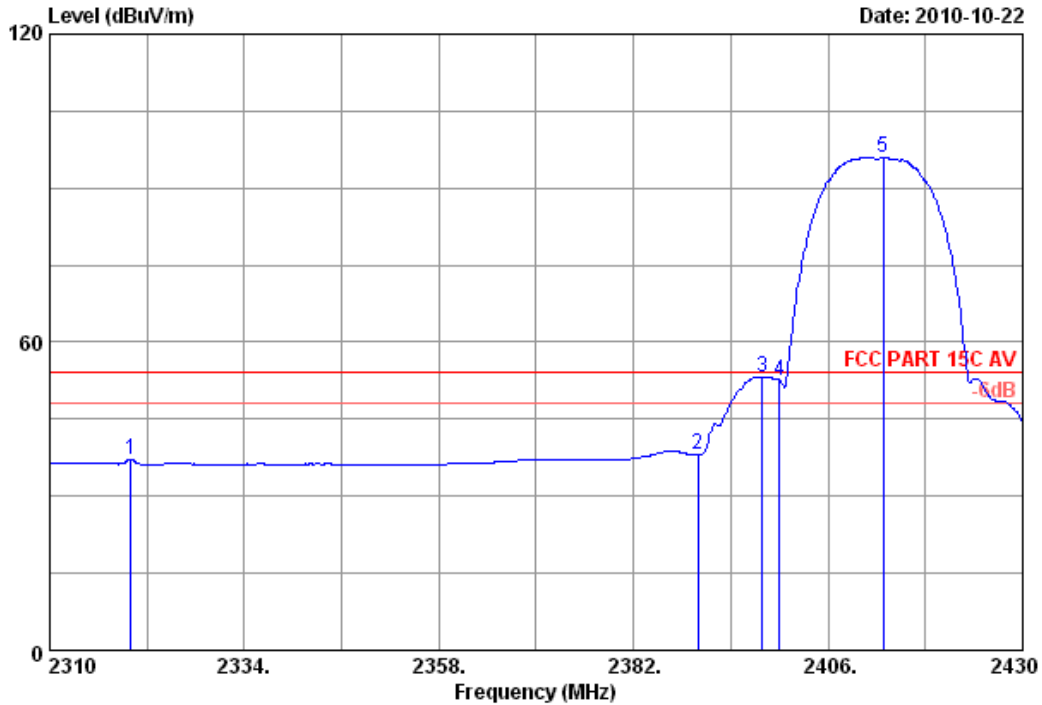
Remarks:

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: 126 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 126
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 37.10 | 37.14 | 54.00 | 16.86 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 37.77 | 37.98 | 54.00 | 16.02 | Average |
| 3 | 2397.840 | 29.44 | 7.39 | 36.62 | 53.05 | 53.26 | 54.00 | 0.74 | Average |
| 4 | 2400.000 | 29.44 | 7.43 | 36.62 | 52.33 | 52.58 | 54.00 | 1.42 | Average |
| 5 | 2412.840 | 29.45 | 7.43 | 36.62 | 95.65 | 95.91 | 54.00 | -41.91 | Average |

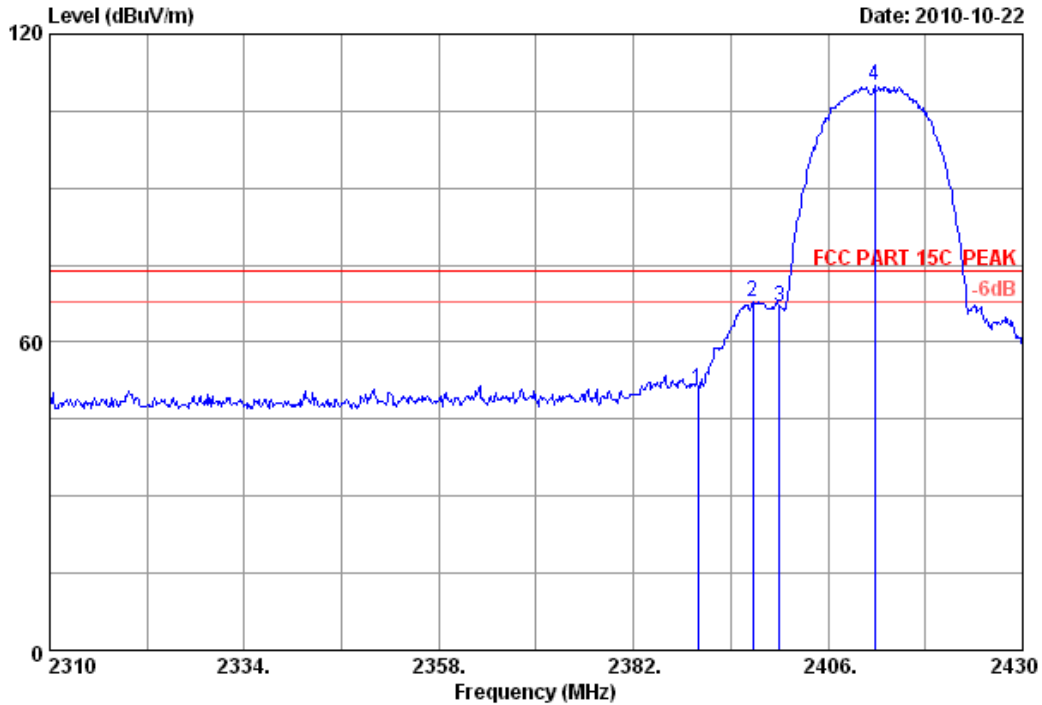
Remarks:

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: 127 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 127
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 29.44 | 7.39 | 36.62 | 50.73 | 50.94 | 74.00 | 23.06 | Peak |
| 2 | 2396.760 | 29.44 | 7.39 | 36.62 | 67.64 | 67.85 | 74.00 | 6.15 | Peak |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 66.60 | 66.85 | 74.00 | 7.15 | Peak |
| 4 | 2411.760 | 29.45 | 7.43 | 36.62 | 109.58 | 109.84 | 74.00 | -35.84 | Peak |

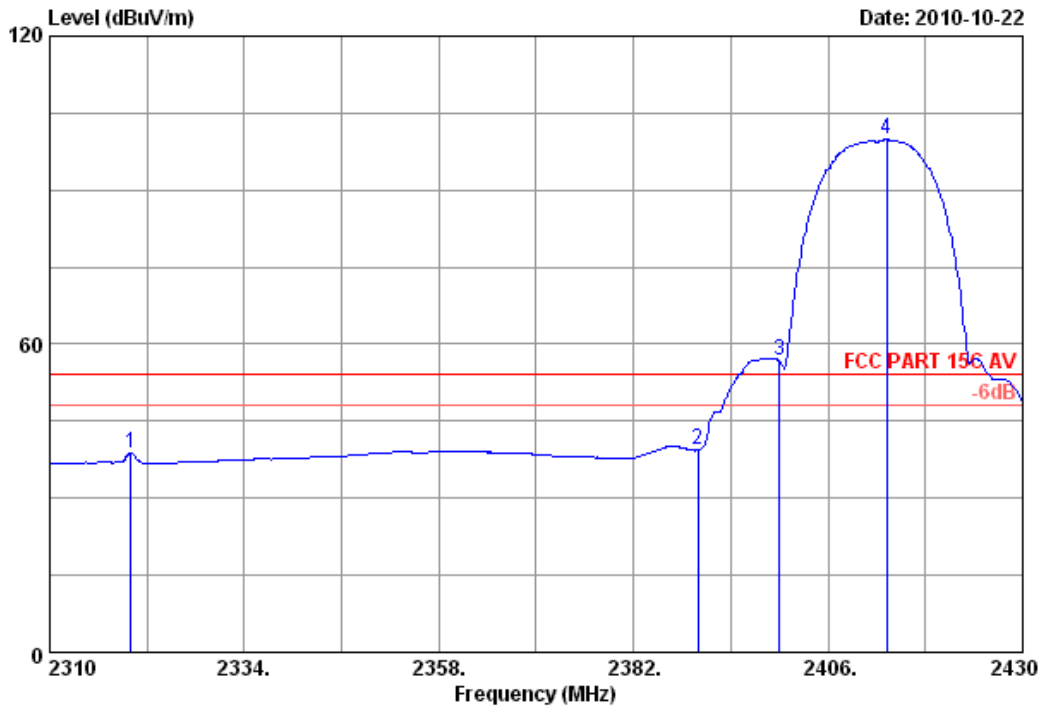
Remarks:

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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Postcode:518057

Data: 128 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 128
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 38.75 | 38.79 | 54.00 | 15.21 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 39.19 | 39.40 | 54.00 | 14.60 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 56.54 | 56.79 | 54.00 | -2.79 | Average |
| 4 | 2413.200 | 29.45 | 7.43 | 36.62 | 99.57 | 99.83 | 54.00 | -45.83 | Average |

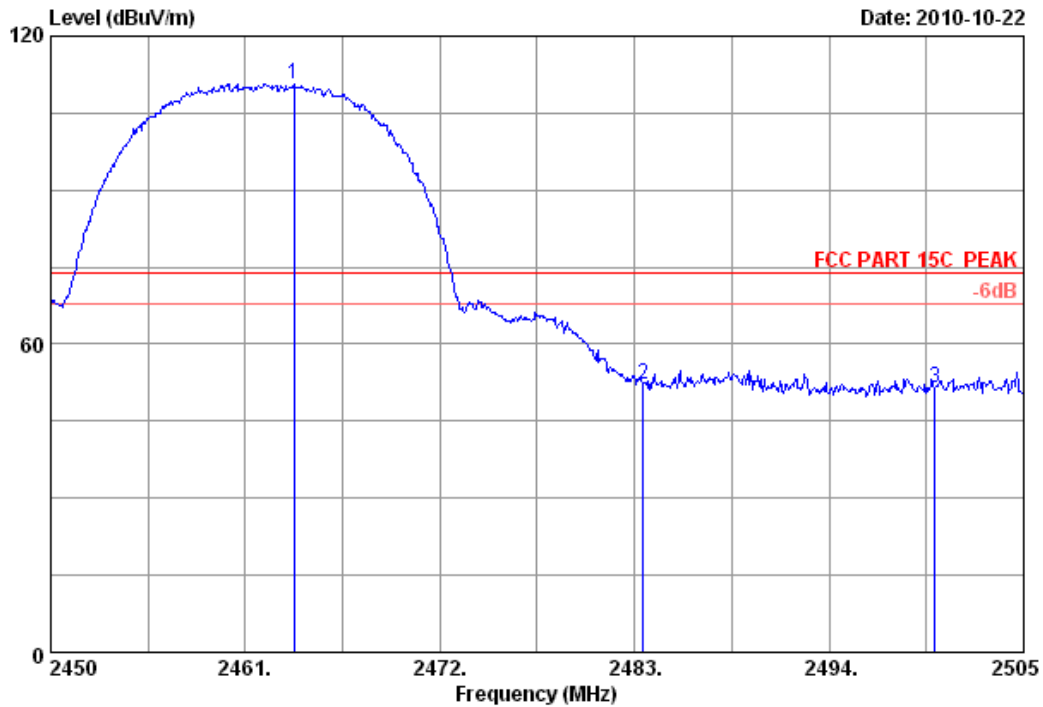
Remarks:

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



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Postcode:518057

Data: 129 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 129
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2463.750 | 29.48 | 7.54 | 36.61 | 110.39 | 110.80 | 74.00 | -36.80 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 51.71 | 52.18 | 74.00 | 21.82 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 51.08 | 51.60 | 74.00 | 22.40 | Peak |

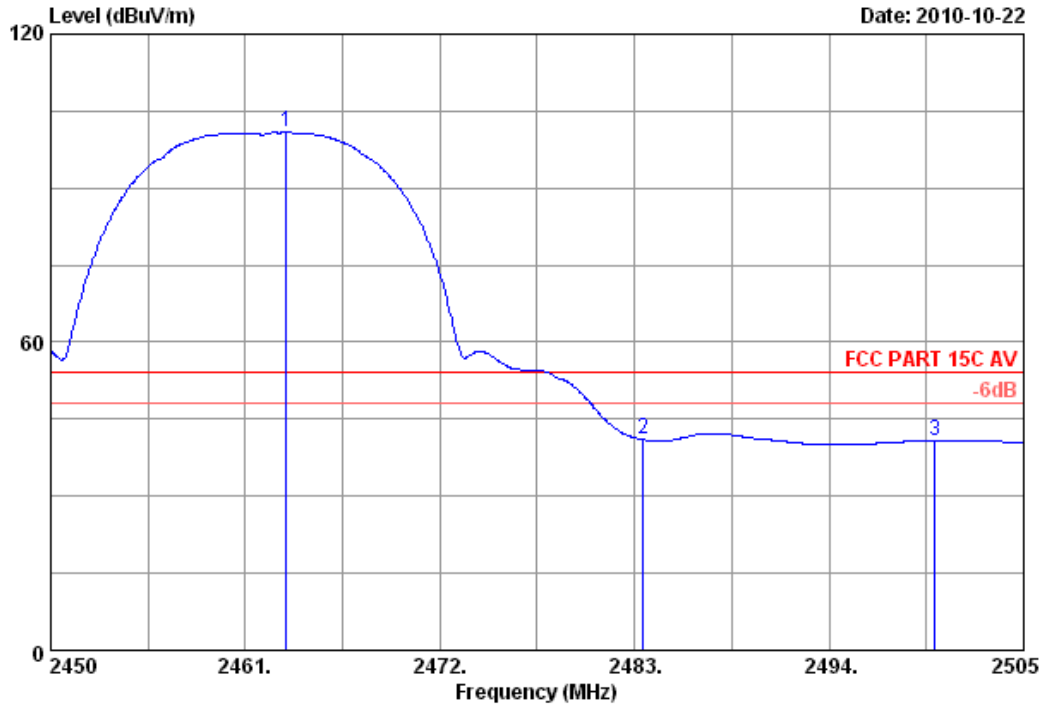
Remarks:

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: 130 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 130
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2463.310 | 29.48 | 7.54 | 36.61 | 100.44 | 100.85 | 54.00 | -46.85 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 40.53 | 41.00 | 54.00 | 13.00 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 40.39 | 40.91 | 54.00 | 13.09 | Average |

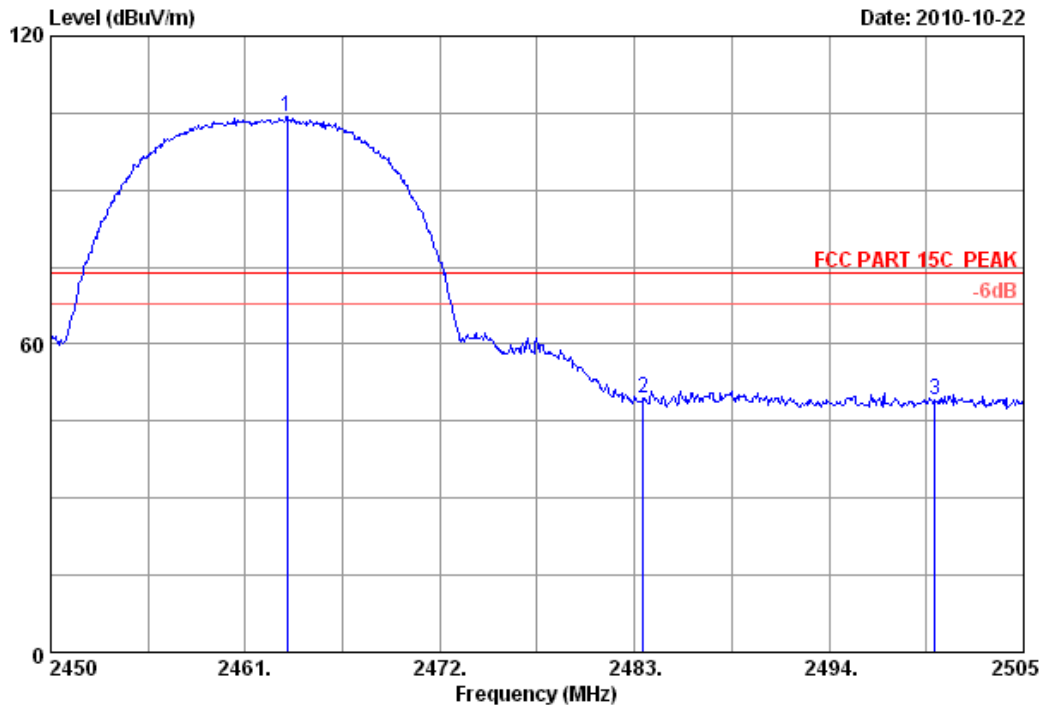
Remarks:

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: 131 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 131
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2463.365 | 29.48 | 7.54 | 36.61 | 103.83 | 104.24 | 74.00 | -30.24 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 48.89 | 49.36 | 74.00 | 24.64 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 48.46 | 48.98 | 74.00 | 25.02 | Peak |

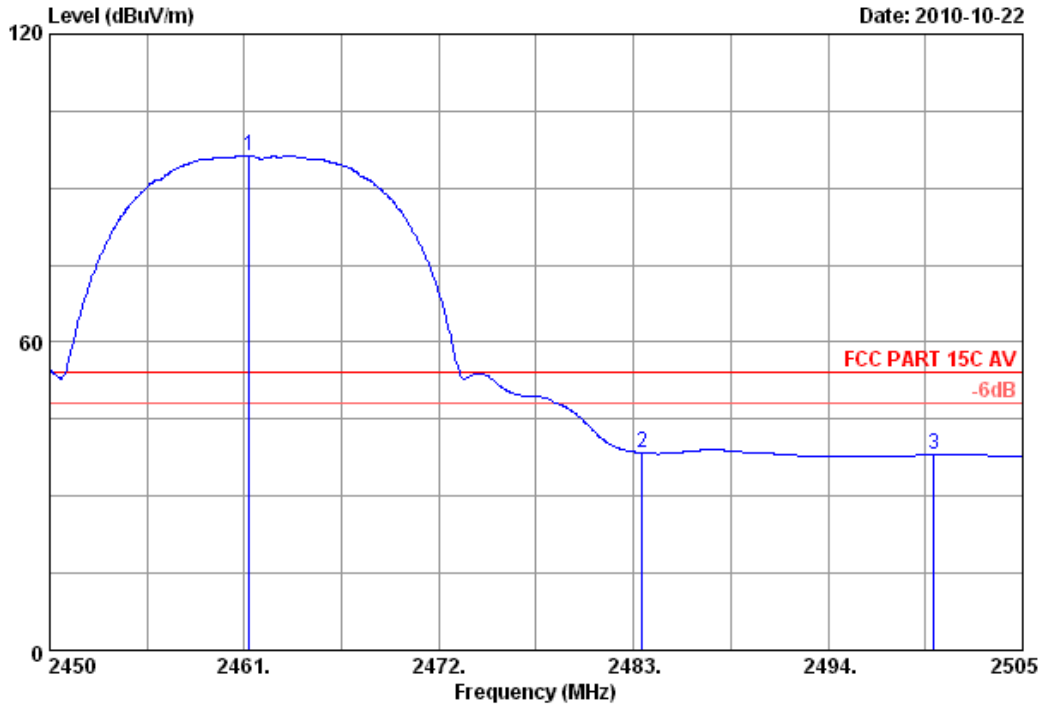
Remarks:

- 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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Postcode:518057

Data: 132 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 132
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2461.275 | 29.48 | 7.54 | 36.61 | 95.77 | 96.18 | 54.00 | -42.18 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 37.97 | 38.44 | 54.00 | 15.56 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 37.48 | 38.00 | 54.00 | 16.00 | Average |

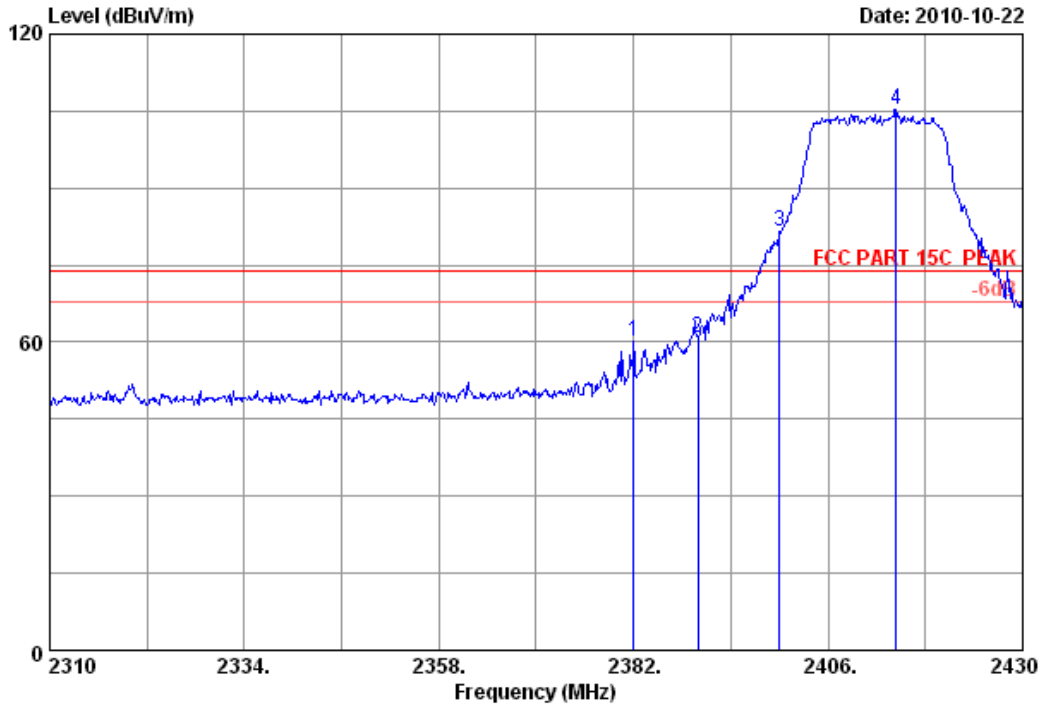
Remarks:

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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Postcode:518057

Data: 133 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 133
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2382.000 | 29.43 | 7.39 | 36.62 | 59.97 | 60.17 | 74.00 | 13.83 | Peak |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 60.47 | 60.68 | 74.00 | 13.32 | Peak |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 81.22 | 81.47 | 74.00 | -7.47 | Peak |
| 4 | 2414.400 | 29.45 | 7.43 | 36.62 | 105.17 | 105.43 | 74.00 | -31.43 | Peak |

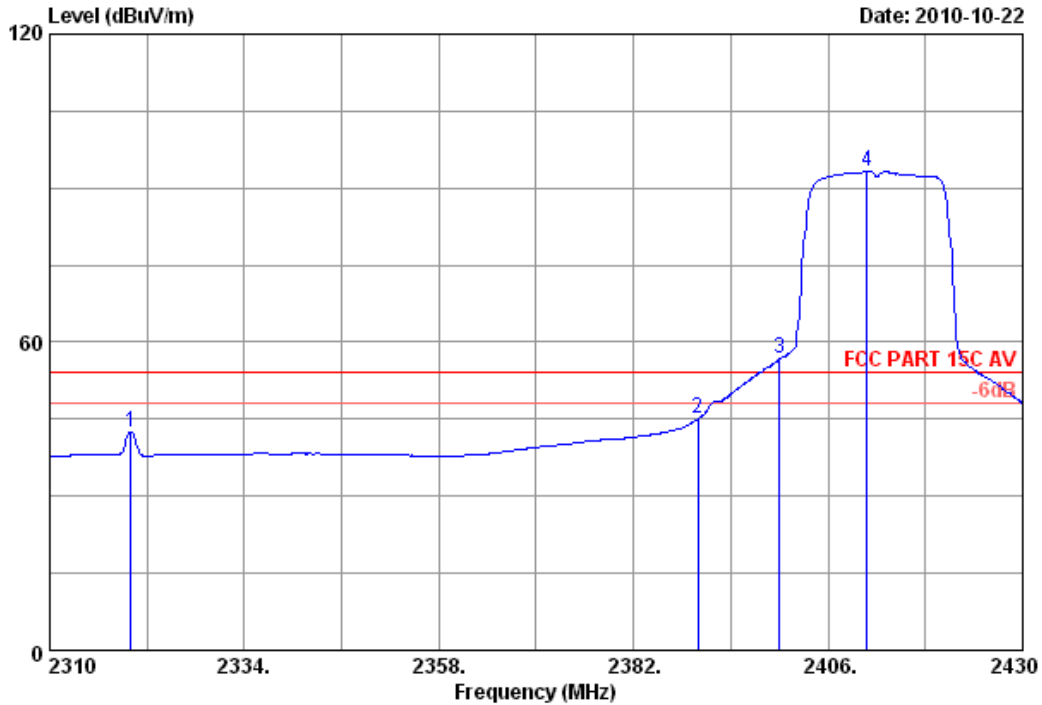
Remarks:

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: 134 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 134
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 42.51 | 42.55 | 54.00 | 11.45 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 44.91 | 45.12 | 54.00 | 8.88 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 56.47 | 56.72 | 54.00 | -2.72 | Average |
| 4 | 2410.800 | 29.45 | 7.43 | 36.62 | 93.14 | 93.40 | 54.00 | -39.40 | Average |

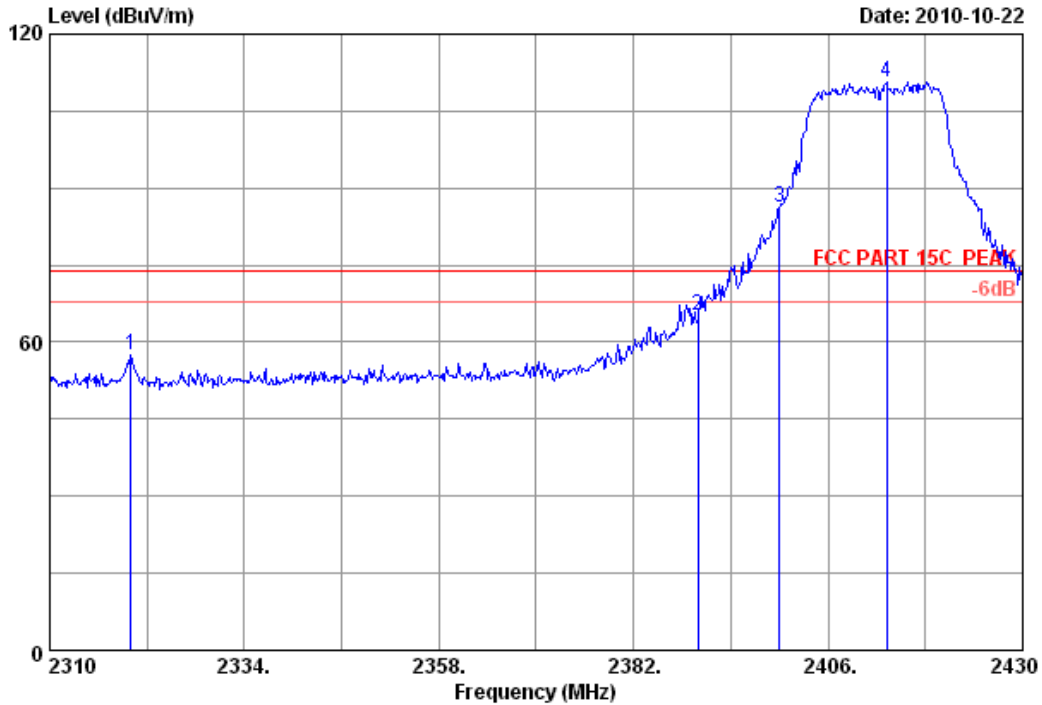
Remarks:

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. : RF Chamber Data no. : 135
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 57.53 | 57.57 | 74.00 | 16.43 | Peak |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 64.97 | 65.18 | 74.00 | 8.82 | Peak |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 85.93 | 86.18 | 74.00 | -12.18 | Peak |
| 4 | 2413.200 | 29.45 | 7.43 | 36.62 | 110.53 | 110.79 | 74.00 | -36.79 | Peak |

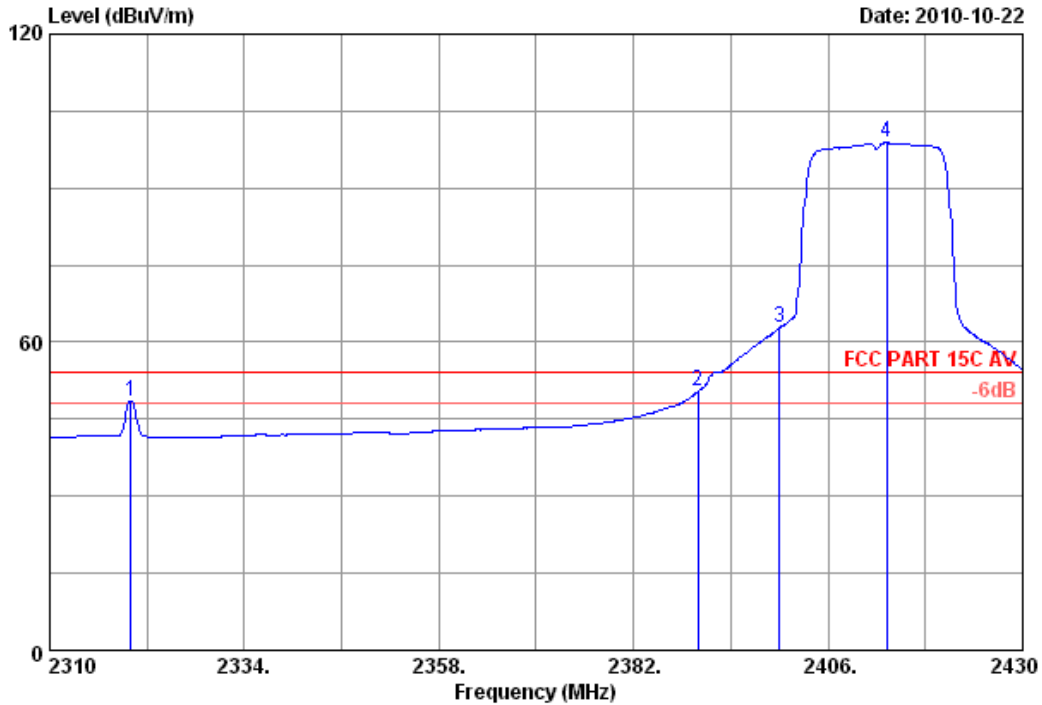
Remarks:

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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Postcode:518057

Data: 136 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 136
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 48.59 | 48.63 | 54.00 | 5.37 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 50.15 | 50.36 | 54.00 | 3.64 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 62.61 | 62.86 | 54.00 | -8.86 | Average |
| 4 | 2413.200 | 29.45 | 7.43 | 36.62 | 98.57 | 98.83 | 54.00 | -44.83 | Average |

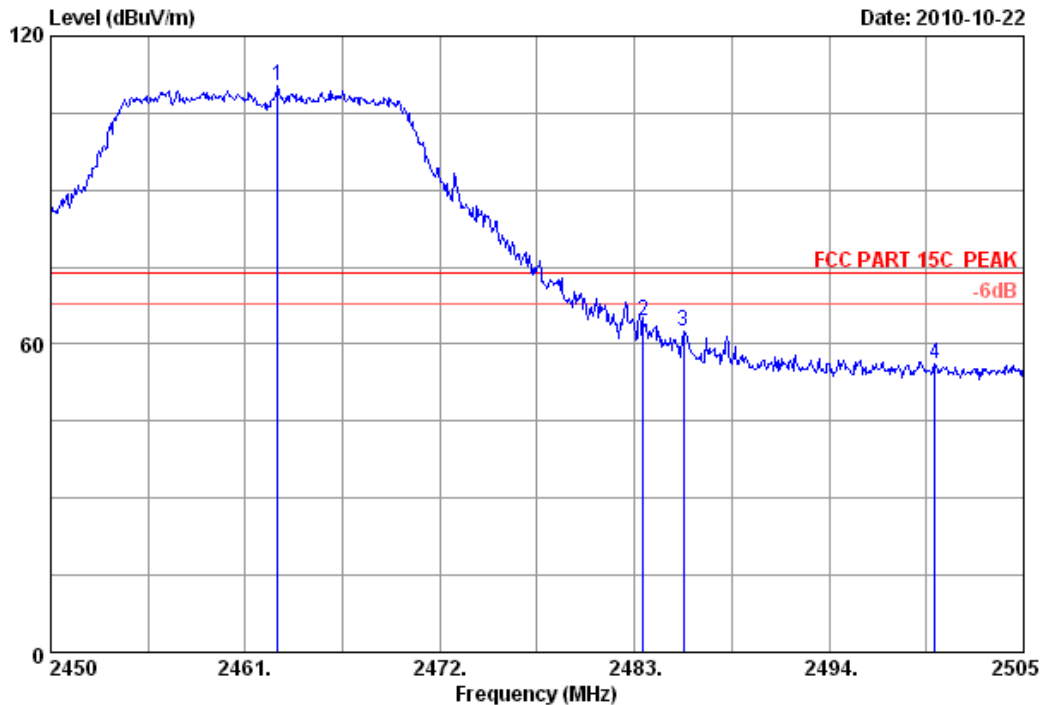
Remarks:

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



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Site no. : RF Chamber Data no. : 137
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2462.815 | 29.48 | 7.54 | 36.61 | 109.82 | 110.23 | 74.00 | -36.23 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 63.89 | 64.36 | 74.00 | 9.64 | Peak |
| 3 | 2485.750 | 29.49 | 7.58 | 36.60 | 62.09 | 62.56 | 74.00 | 11.44 | Peak |
| 4 | 2500.000 | 29.50 | 7.62 | 36.60 | 55.56 | 56.08 | 74.00 | 17.92 | Peak |

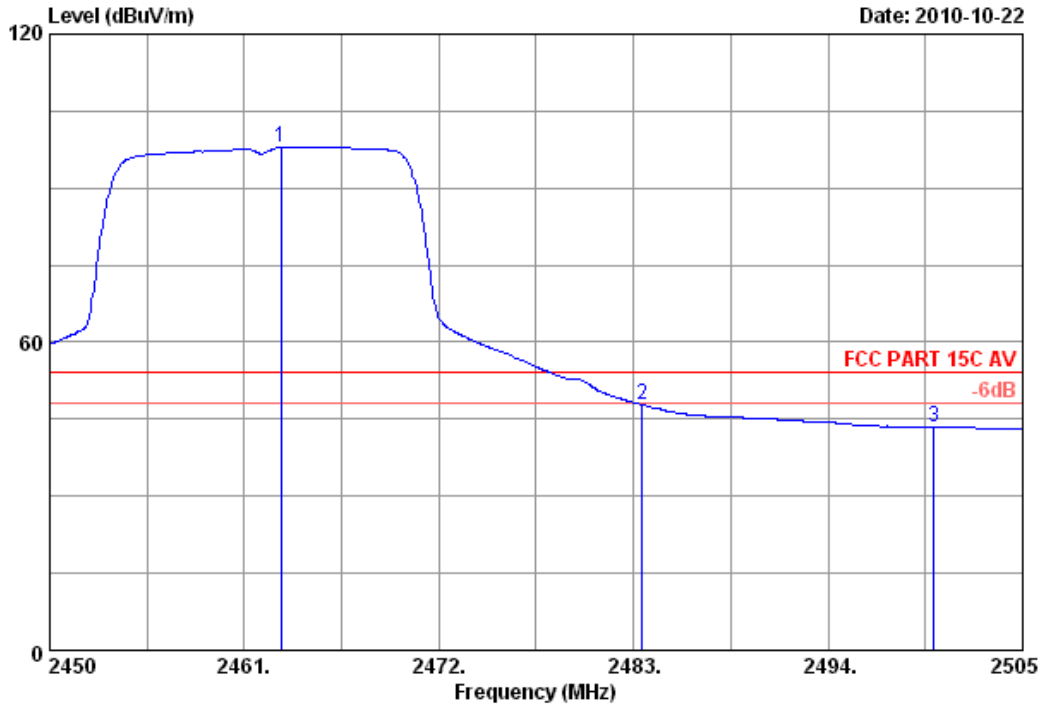
Remarks:

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

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Site no. : RF Chamber Data no. : 138
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2463.090 | 29.48 | 7.54 | 36.61 | 97.55 | 97.96 | 54.00 | -43.96 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 47.31 | 47.78 | 54.00 | 6.22 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 42.97 | 43.49 | 54.00 | 10.51 | Average |

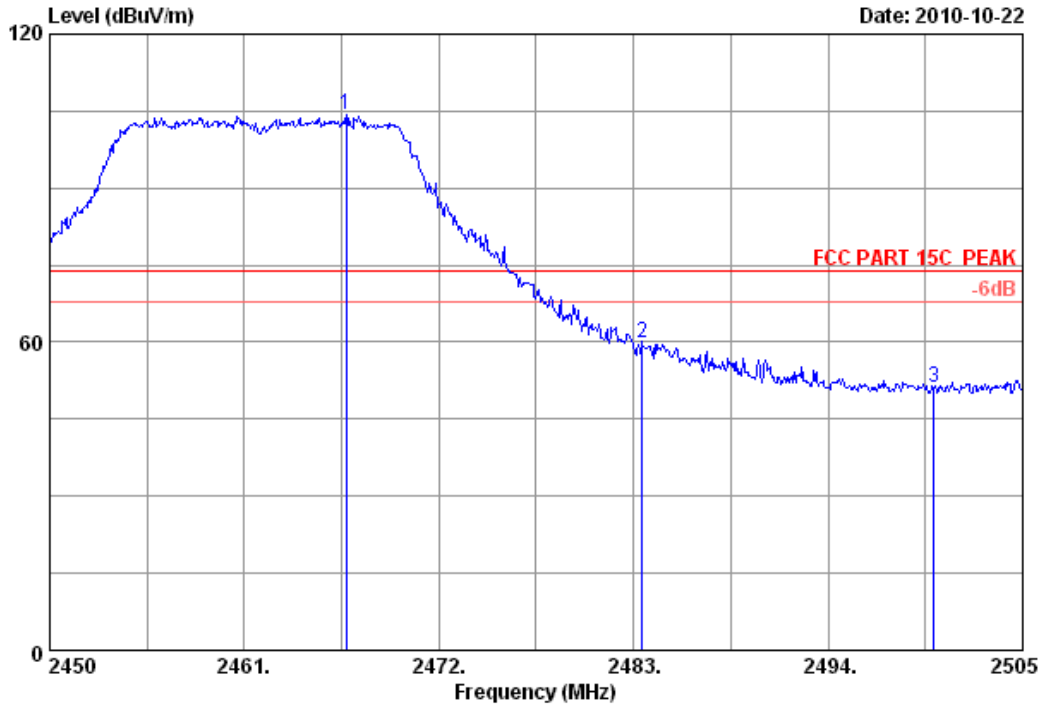
Remarks:

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: 139 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 139
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2466.775 | 29.48 | 7.54 | 36.60 | 103.89 | 104.31 | 74.00 | -30.31 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 59.20 | 59.67 | 74.00 | 14.33 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 50.64 | 51.16 | 74.00 | 22.84 | Peak |

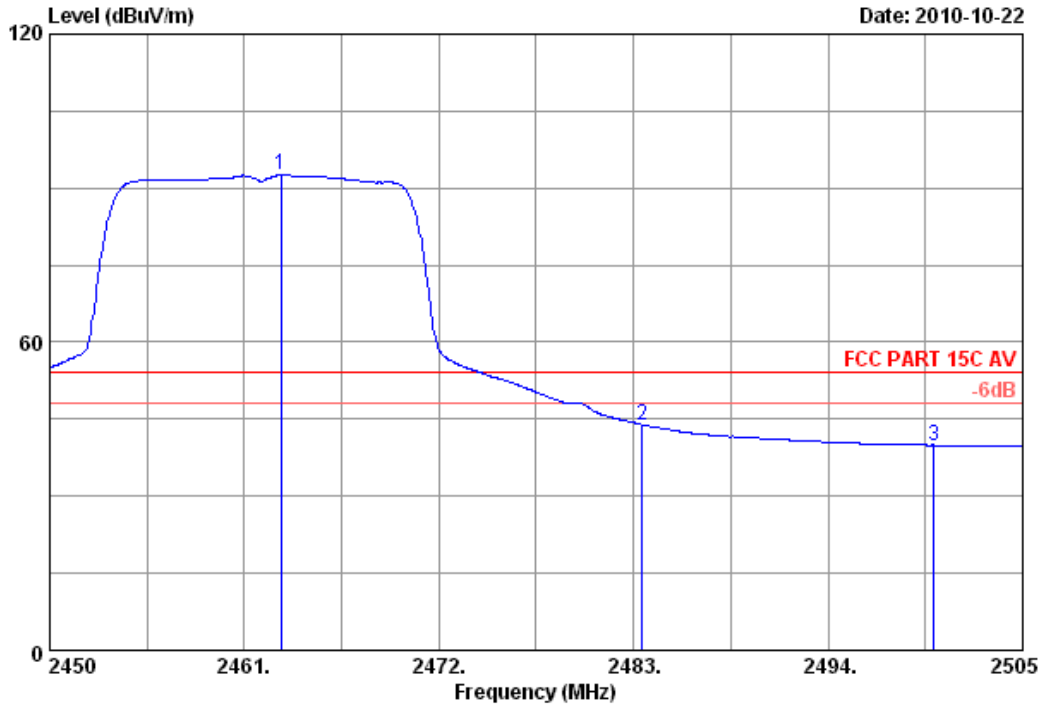
Remarks:

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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Data: 140 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 140
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_HORIZONTAL

| | Ant. 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 | 2463.090 | 29.48 | 7.54 | 36.61 | 92.14 | 92.55 | 54.00 | -38.55 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 43.43 | 43.90 | 54.00 | 10.10 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 39.41 | 39.93 | 54.00 | 14.07 | Average |

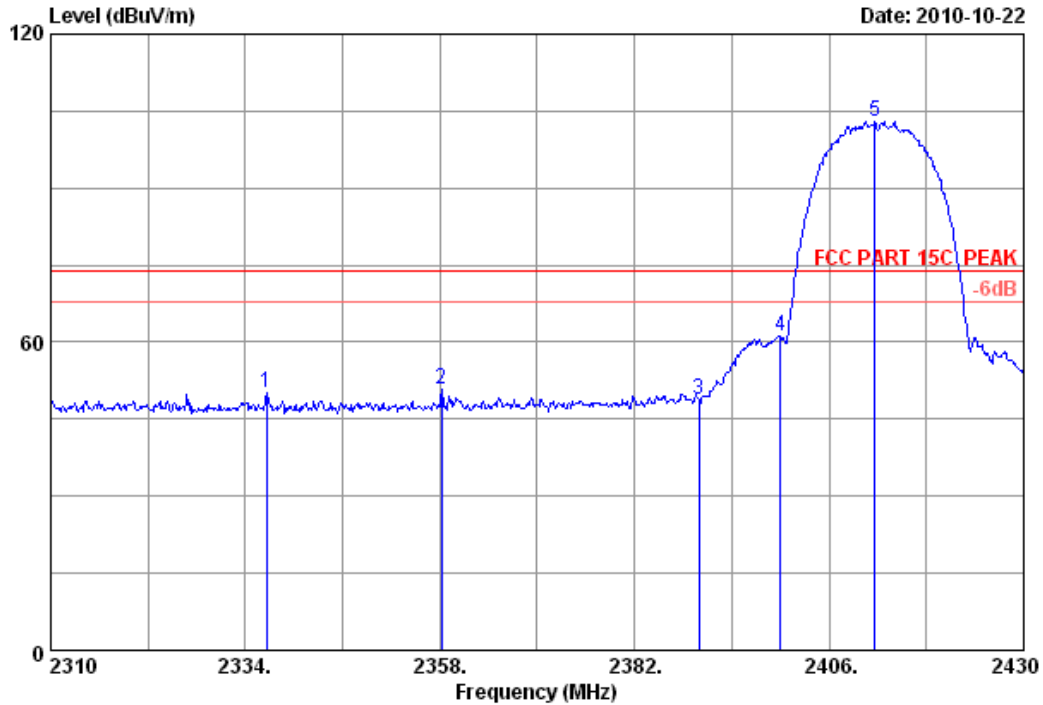
Remarks:

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: 141 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 141
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2336.640 | 29.41 | 7.27 | 36.63 | 50.16 | 50.21 | 74.00 | 23.79 | Peak |
| 2 | 2358.240 | 29.42 | 7.31 | 36.63 | 50.57 | 50.67 | 74.00 | 23.33 | Peak |
| 3 | 2390.000 | 29.44 | 7.39 | 36.62 | 48.64 | 48.85 | 74.00 | 25.15 | Peak |
| 4 | 2400.000 | 29.44 | 7.43 | 36.62 | 60.92 | 61.17 | 74.00 | 12.83 | Peak |
| 5 | 2411.640 | 29.45 | 7.43 | 36.62 | 102.85 | 103.11 | 74.00 | -29.11 | Peak |

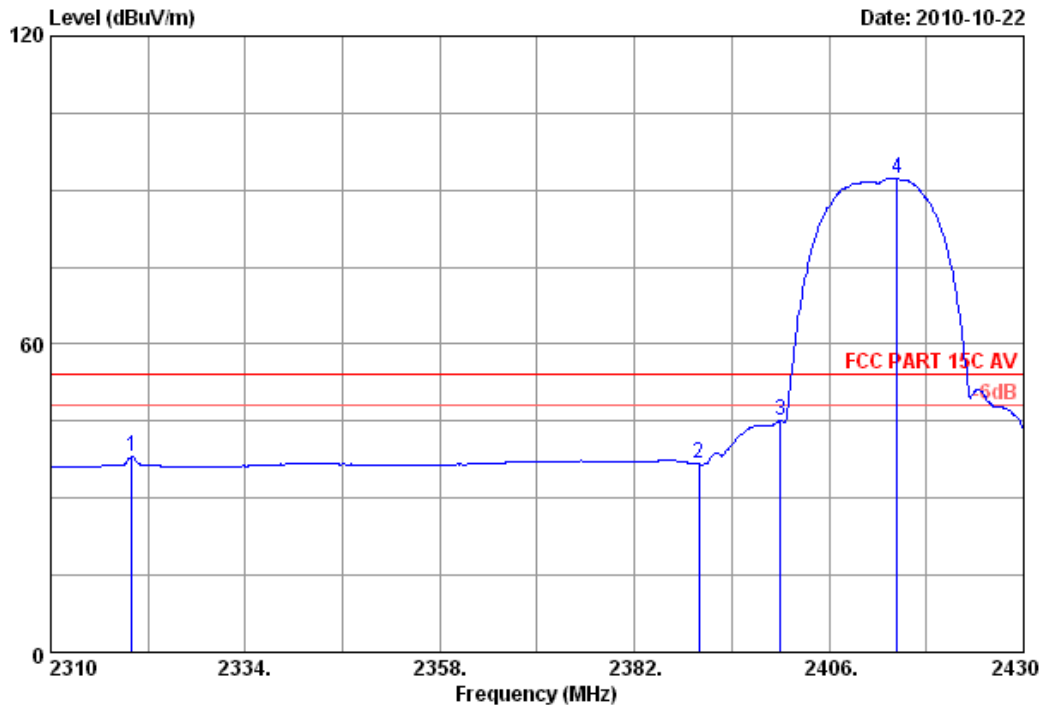
Remarks:

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



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Site no. : RF Chamber Data no. : 142
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 2319.960 | 29.40 | 7.27 | 36.63 | 37.93 | 37.97 | 54.00 | 16.03 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 36.42 | 36.63 | 54.00 | 17.37 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 44.75 | 45.00 | 54.00 | 9.00 | Average |
| 4 | 2414.400 | 29.45 | 7.43 | 36.62 | 91.94 | 92.20 | 54.00 | -38.20 | Average |

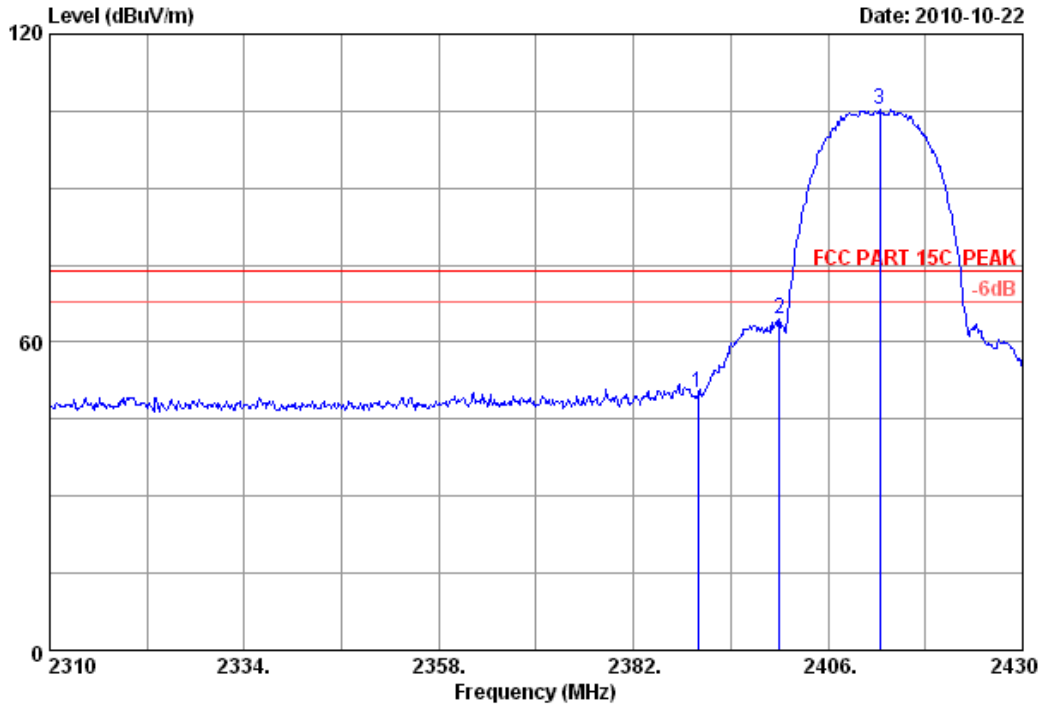
Remarks:

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. : RF Chamber Data no. : 143
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 29.44 | 7.39 | 36.62 | 50.00 | 50.21 | 74.00 | 23.79 | Peak |
| 2 | 2400.000 | 29.44 | 7.43 | 36.62 | 64.22 | 64.47 | 74.00 | 9.53 | Peak |
| 3 | 2412.360 | 29.45 | 7.43 | 36.62 | 105.02 | 105.28 | 74.00 | -31.28 | Peak |

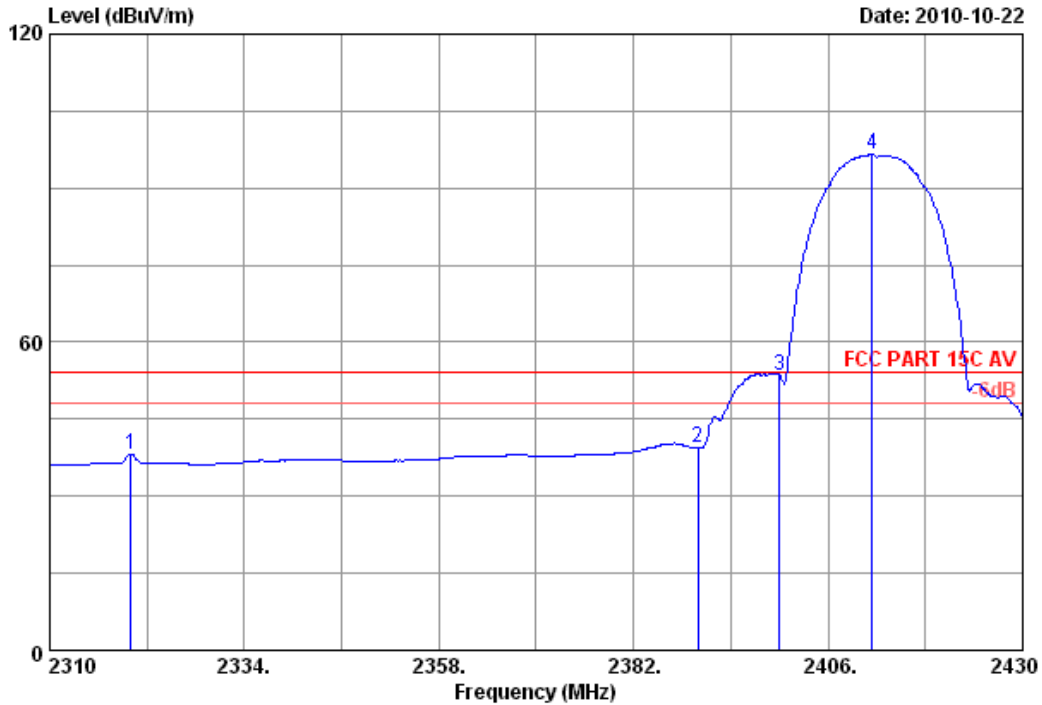
Remarks:

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

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Site no. : RF Chamber Data no. : 144
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 38.21 | 38.25 | 54.00 | 15.75 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 39.11 | 39.32 | 54.00 | 14.68 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 53.35 | 53.60 | 54.00 | 0.40 | Average |
| 4 | 2411.400 | 29.45 | 7.43 | 36.62 | 96.28 | 96.54 | 54.00 | -42.54 | Average |

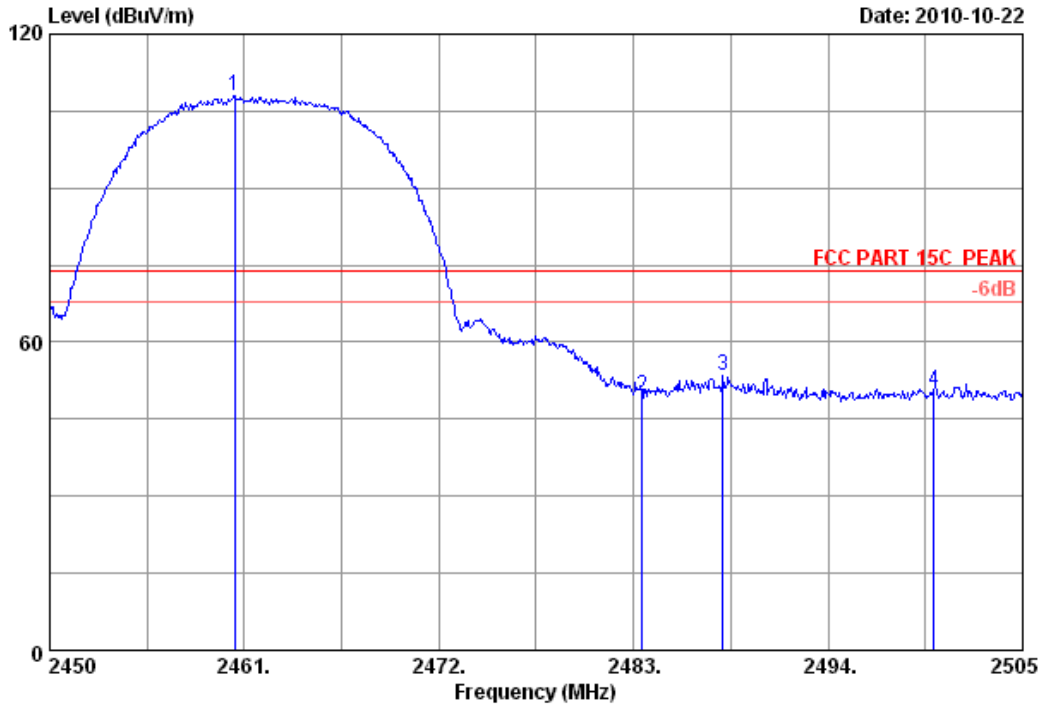
Remarks:

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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Site no. : RF Chamber Data no. : 145
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2460.450 | 29.48 | 7.54 | 36.61 | 107.53 | 107.94 | 74.00 | -33.94 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 49.15 | 49.62 | 74.00 | 24.38 | Peak |
| 3 | 2488.060 | 29.50 | 7.58 | 36.60 | 52.99 | 53.47 | 74.00 | 20.53 | Peak |
| 4 | 2500.000 | 29.50 | 7.62 | 36.60 | 49.86 | 50.38 | 74.00 | 23.62 | Peak |

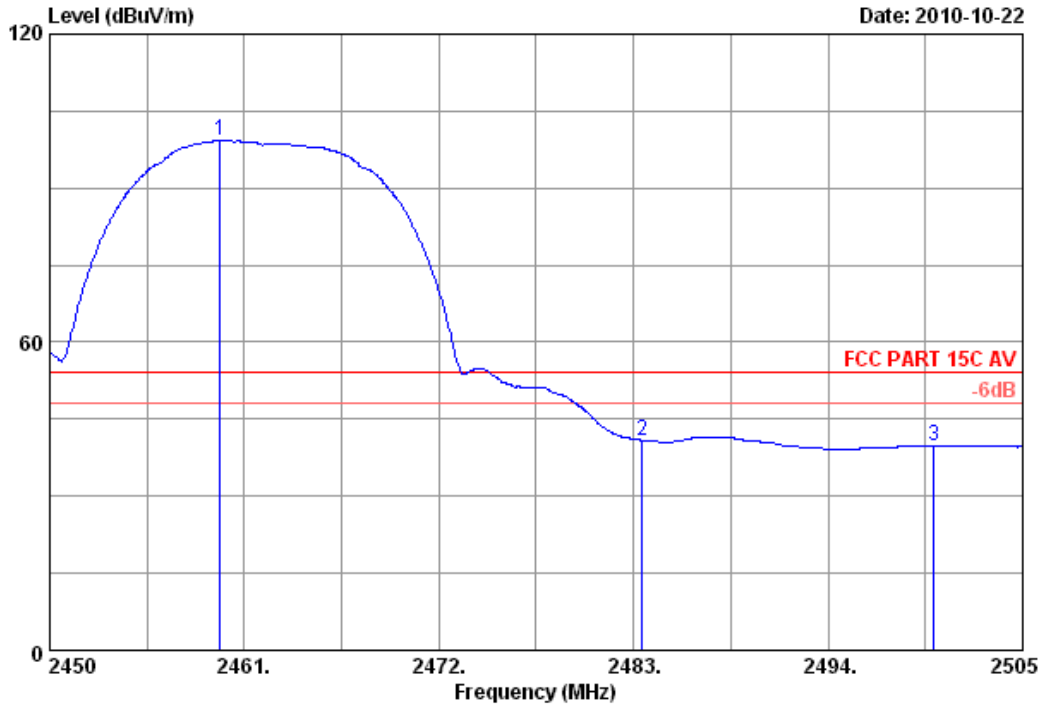
Remarks:

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: 146 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 146
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2459.625 | 29.48 | 7.54 | 36.61 | 98.88 | 99.29 | 54.00 | -45.29 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 40.42 | 40.89 | 54.00 | 13.11 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 39.26 | 39.78 | 54.00 | 14.22 | Average |

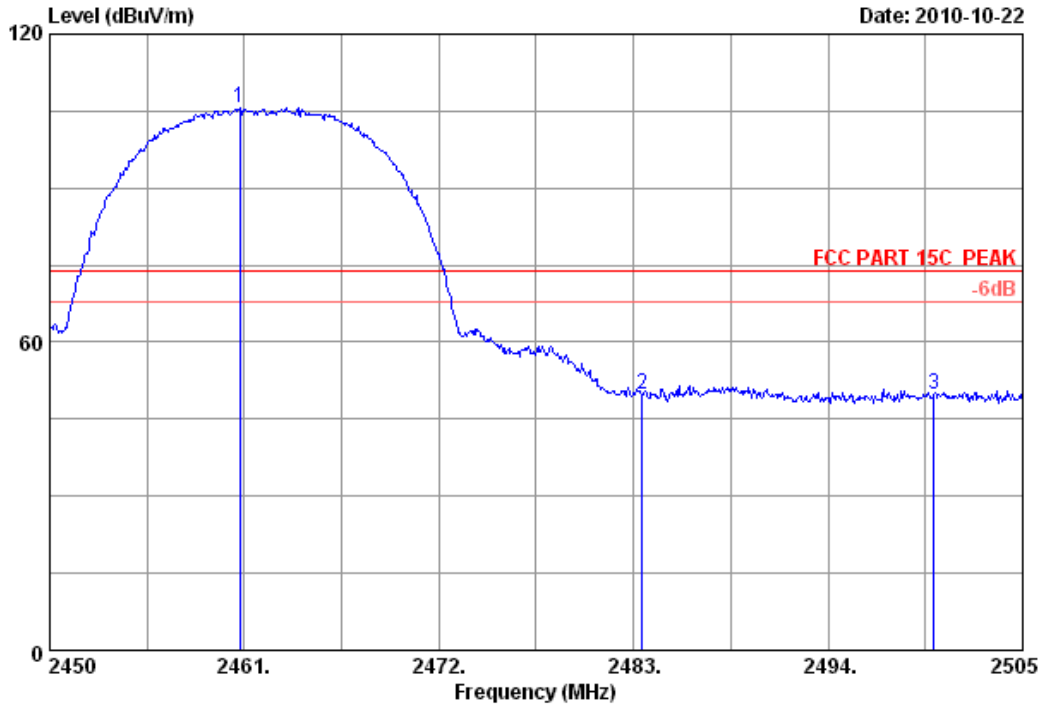
Remarks:

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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Postcode:518057

Data: 147 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 147
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2460.725 | 29.48 | 7.54 | 36.61 | 105.26 | 105.67 | 74.00 | -31.67 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 49.25 | 49.72 | 74.00 | 24.28 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 49.37 | 49.89 | 74.00 | 24.11 | Peak |

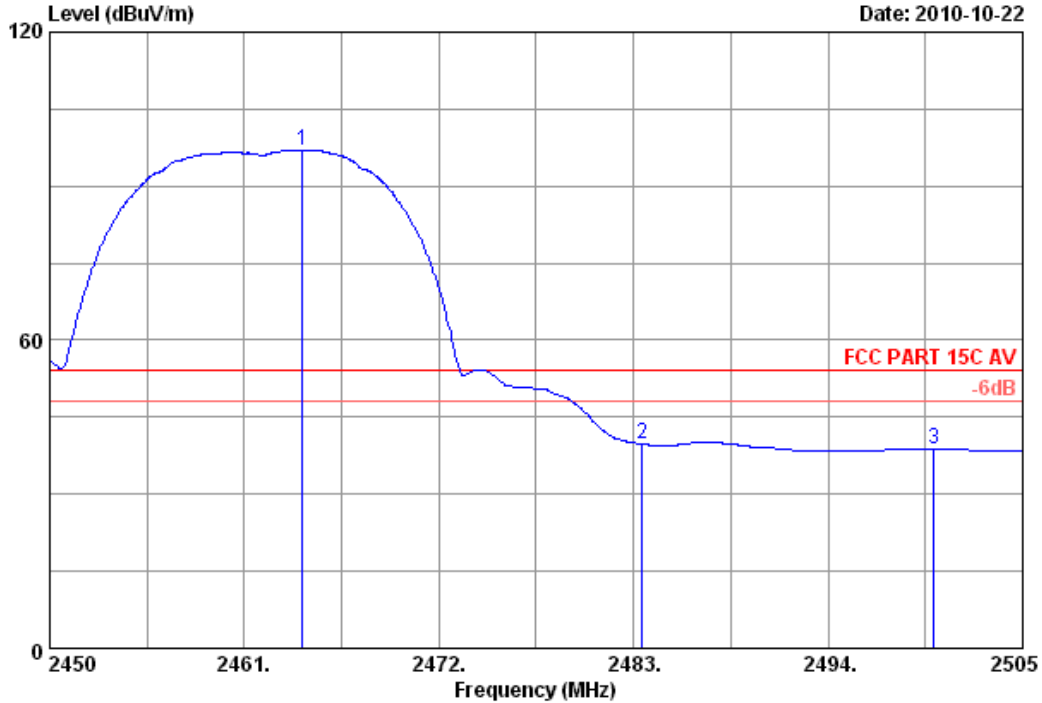
Remarks:

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



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Postcode:518057

Data: 148 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 148
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2464.300 | 29.48 | 7.54 | 36.61 | 96.64 | 97.05 | 54.00 | -43.05 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 39.24 | 39.71 | 54.00 | 14.29 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 38.28 | 38.80 | 54.00 | 15.20 | Average |

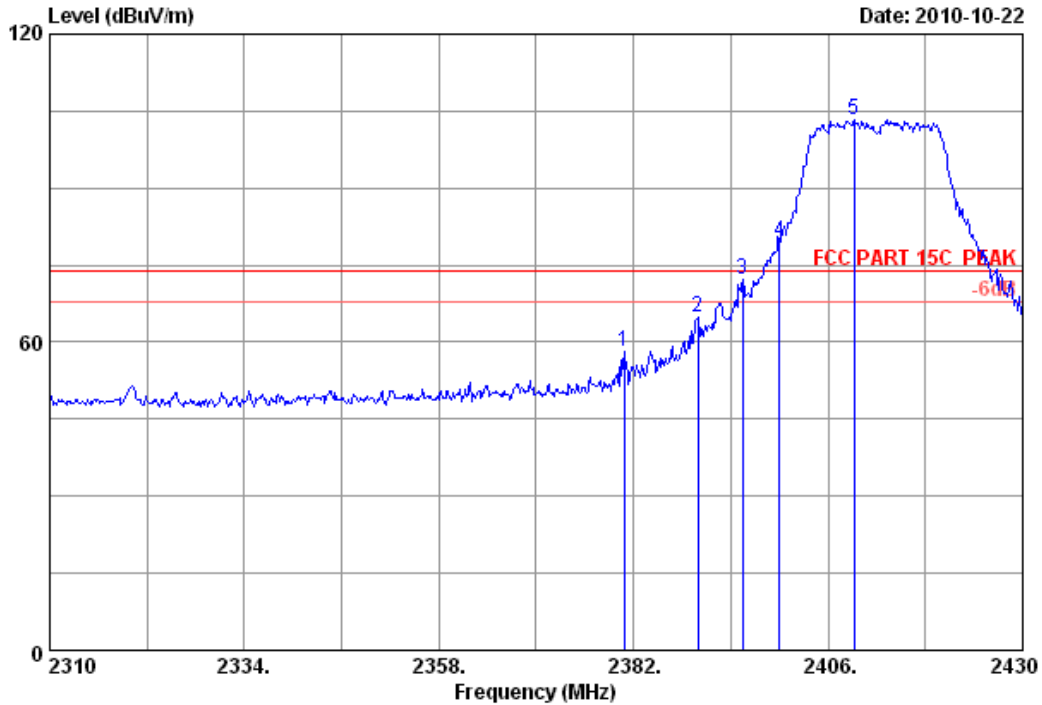
Remarks:

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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Postcode:518057

Data: 149 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 149
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2380.800 | 29.43 | 7.39 | 36.62 | 57.95 | 58.15 | 74.00 | 15.85 | Peak |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 64.79 | 65.00 | 74.00 | 9.00 | Peak |
| 3 | 2395.440 | 29.44 | 7.39 | 36.62 | 72.03 | 72.24 | 74.00 | 1.76 | Peak |
| 4 | 2400.000 | 29.44 | 7.43 | 36.62 | 79.20 | 79.45 | 74.00 | -5.45 | Peak |
| 5 | 2409.240 | 29.45 | 7.43 | 36.62 | 102.98 | 103.24 | 74.00 | -29.24 | Peak |

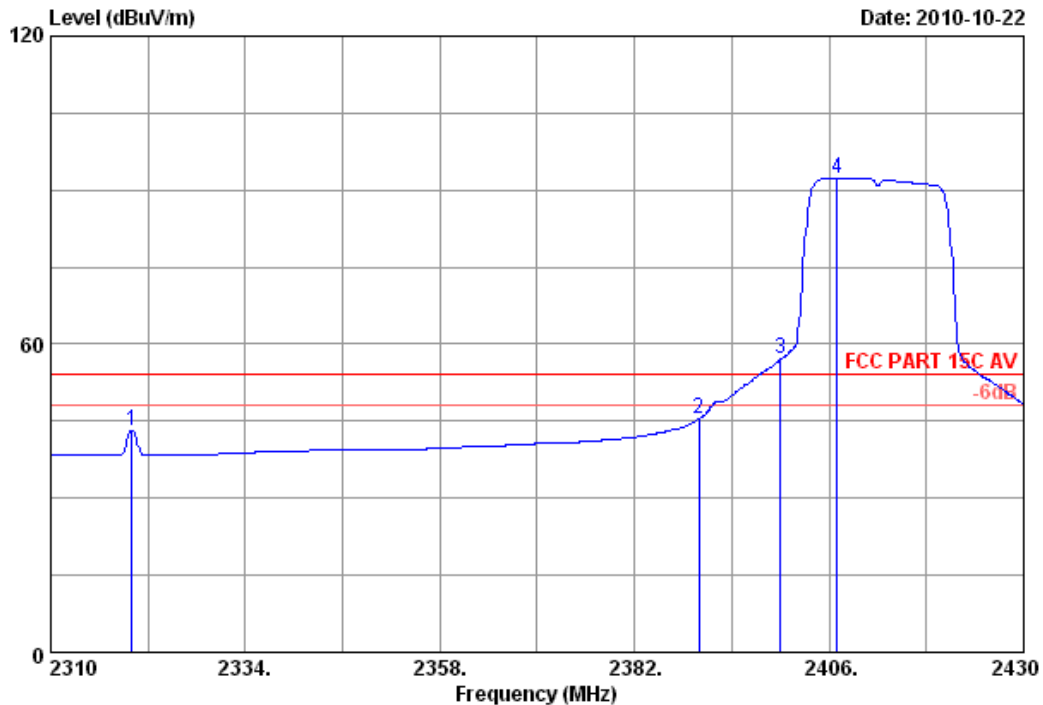
Remarks:

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: 150 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 150
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2319.960 | 29.40 | 7.27 | 36.63 | 43.22 | 43.26 | 54.00 | 10.74 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 45.28 | 45.49 | 54.00 | 8.51 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 56.83 | 57.08 | 54.00 | -3.08 | Average |
| 4 | 2406.960 | 29.45 | 7.43 | 36.62 | 92.08 | 92.34 | 54.00 | -38.34 | Average |

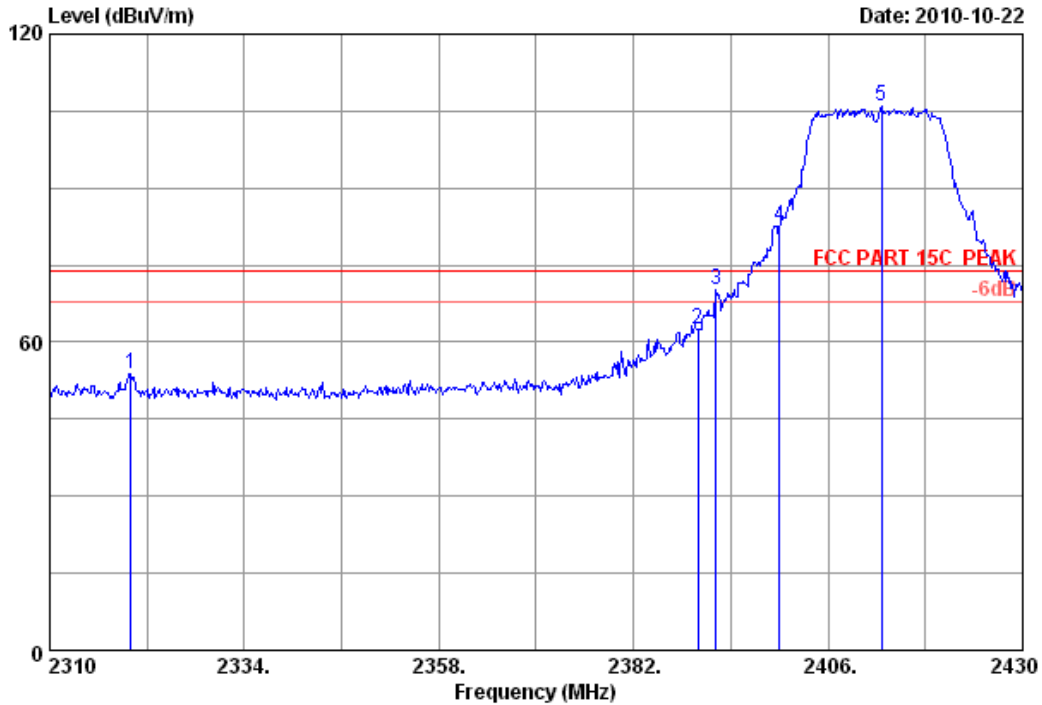
Remarks:

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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Postcode:518057

Data: 151 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 151
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|--------|
| 1 | 2319.960 | 29.40 | 7.27 | 36.63 | 53.74 | 53.78 | 74.00 | 20.22 | Peak |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 62.40 | 62.61 | 74.00 | 11.39 | Peak |
| 3 | 2392.200 | 29.44 | 7.39 | 36.62 | 69.97 | 70.18 | 74.00 | 3.82 | Peak |
| 4 | 2400.000 | 29.44 | 7.43 | 36.62 | 82.28 | 82.53 | 74.00 | -8.53 | Peak |
| 5 | 2412.600 | 29.45 | 7.43 | 36.62 | 105.86 | 106.12 | 74.00 | -32.12 | Peak |

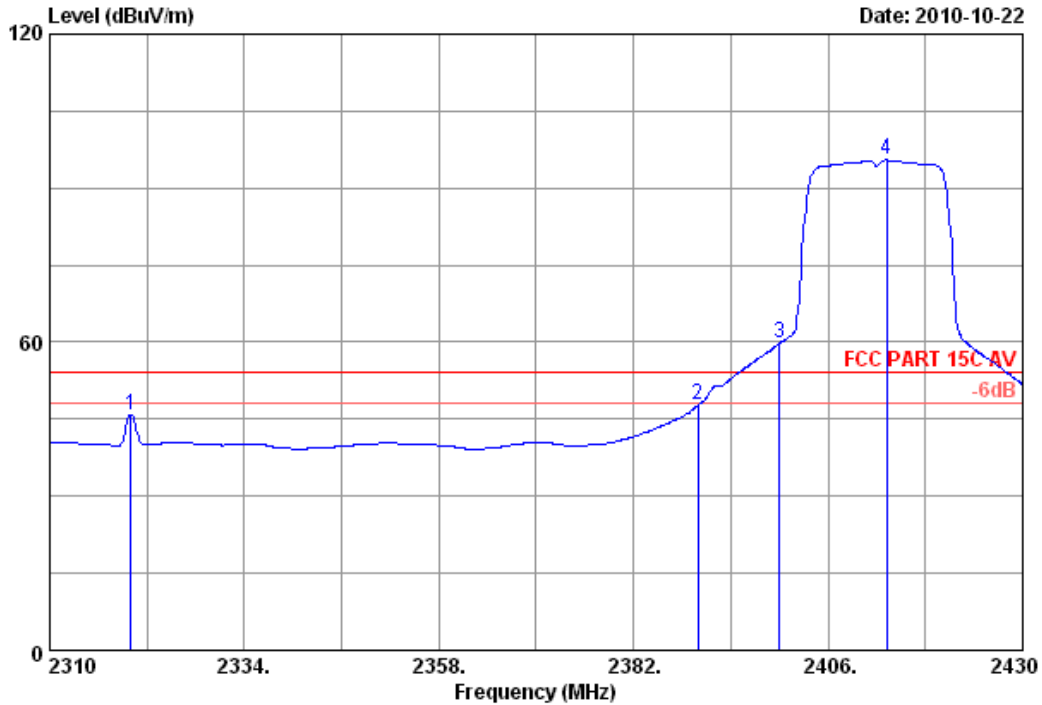
Remarks:

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: 152 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 152
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. Freq. (MHz) | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Emission Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|------------------|--------------------|-----------------|------------------|-------------------------|-------------------------|-----------------|-------------|---------|
| 1 | 2319.960 | 29.40 | 7.27 | 36.63 | 45.81 | 45.85 | 54.00 | 8.15 | Average |
| 2 | 2390.000 | 29.44 | 7.39 | 36.62 | 47.50 | 47.71 | 54.00 | 6.29 | Average |
| 3 | 2400.000 | 29.44 | 7.43 | 36.62 | 59.60 | 59.85 | 54.00 | -5.85 | Average |
| 4 | 2413.200 | 29.45 | 7.43 | 36.62 | 95.18 | 95.44 | 54.00 | -41.44 | Average |

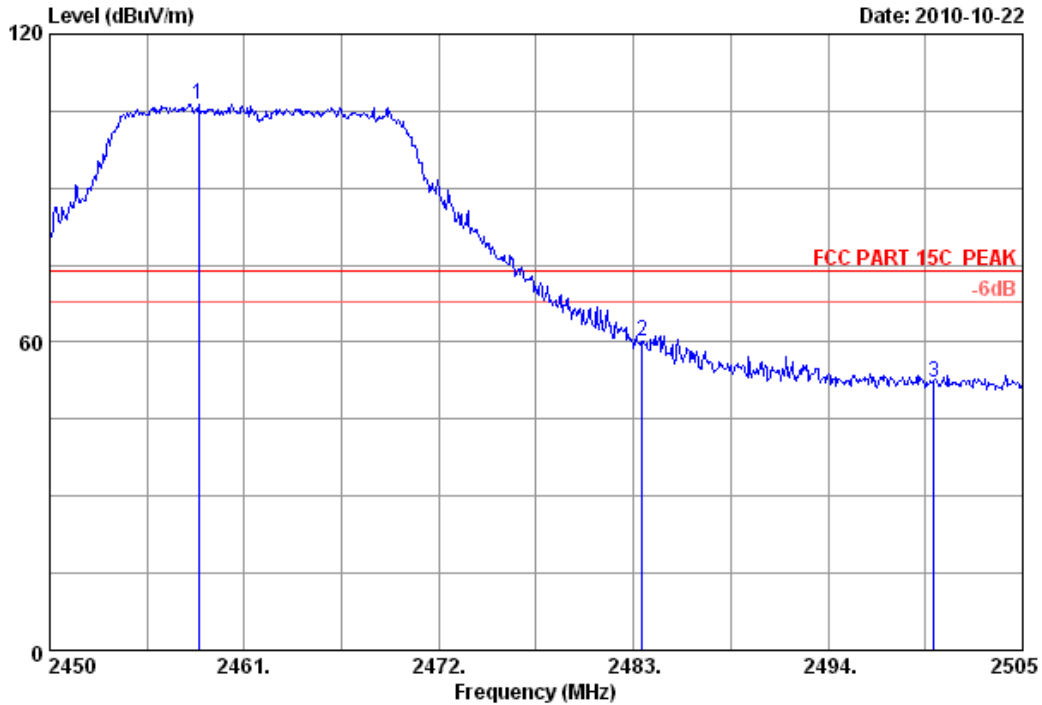
Remarks:

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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Postcode:518057

Data: 153 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 153
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2458.415 | 29.48 | 7.50 | 36.61 | 106.05 | 106.42 | 74.00 | -32.42 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 59.78 | 60.25 | 74.00 | 13.75 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 51.76 | 52.28 | 74.00 | 21.72 | Peak |

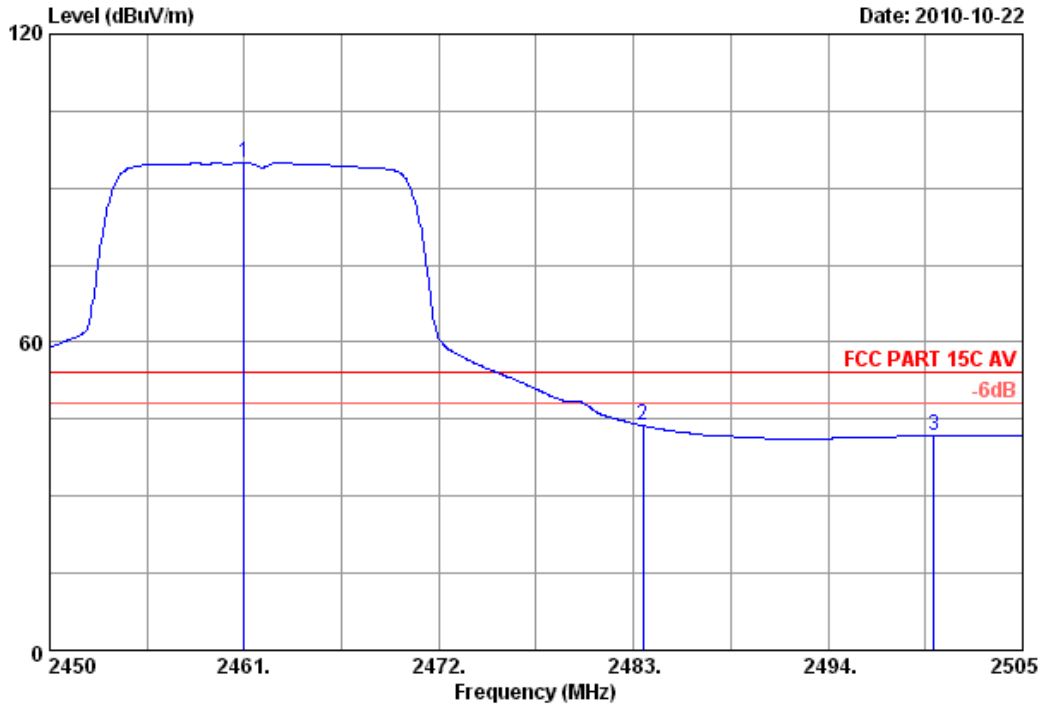
Remarks:

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: 154 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 154
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2461.000 | 29.48 | 7.54 | 36.61 | 94.68 | 95.09 | 54.00 | -41.09 | Average |
| 2 | 2483.530 | 29.49 | 7.58 | 36.60 | 43.26 | 43.73 | 54.00 | 10.27 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 41.35 | 41.87 | 54.00 | 12.13 | Average |

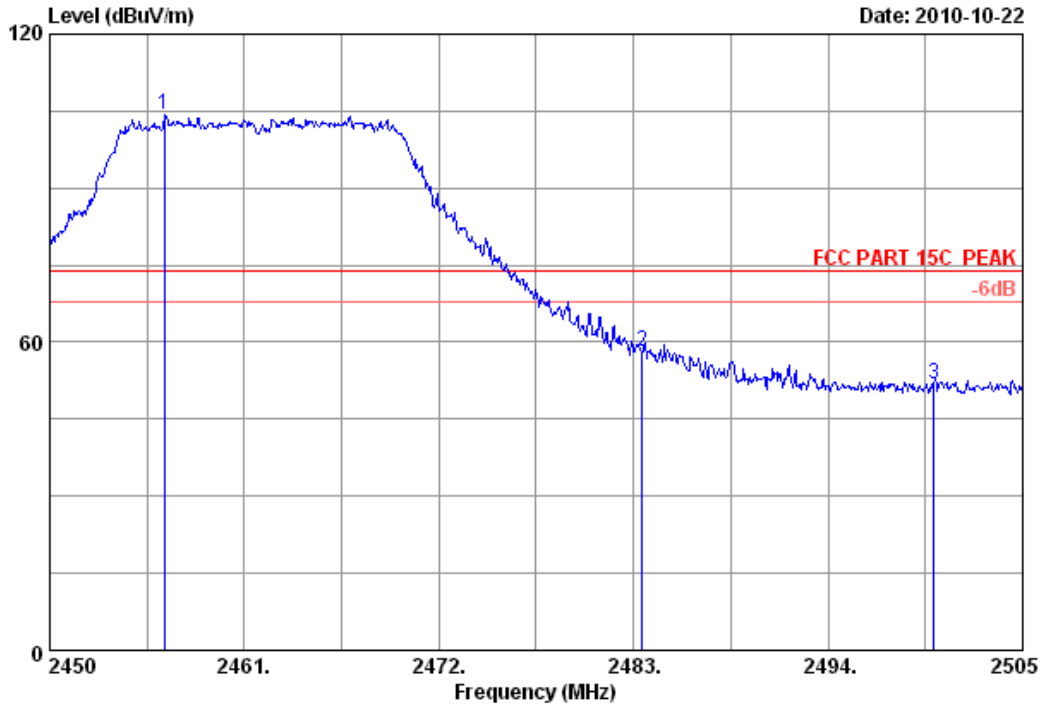
Remarks:

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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Postcode:518057

Data: 155 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 155
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2456.490 | 29.48 | 7.50 | 36.61 | 103.83 | 104.20 | 74.00 | -30.20 | Peak |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 57.57 | 58.04 | 74.00 | 15.96 | Peak |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 51.16 | 51.68 | 74.00 | 22.32 | Peak |

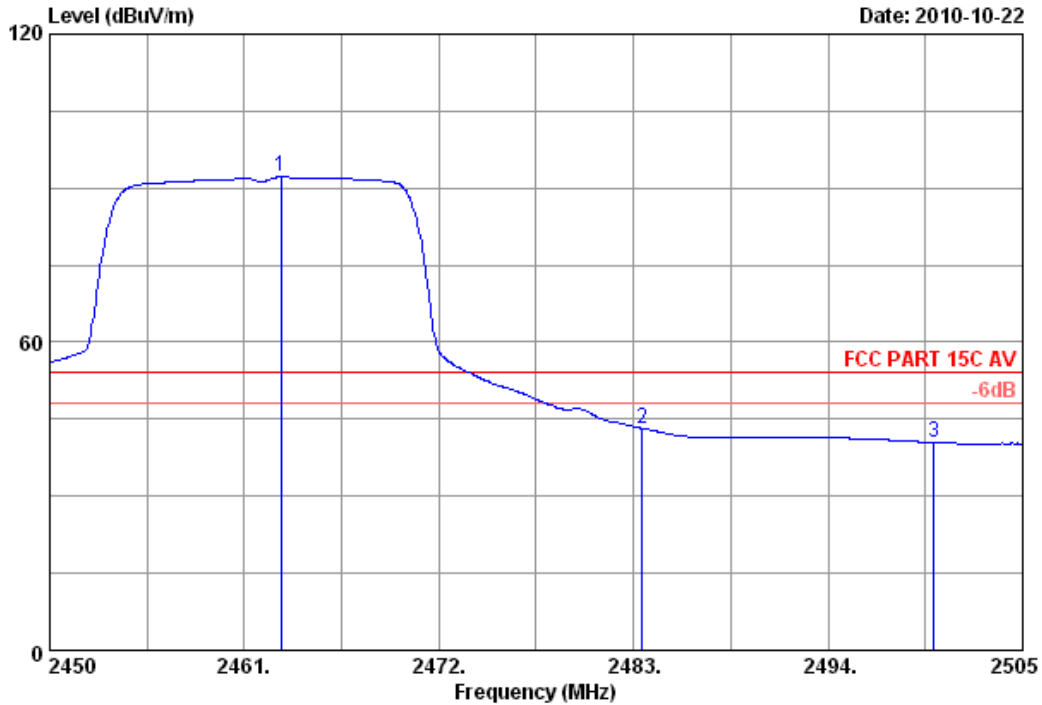
Remarks:

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: 156 File: E:\2010 report data\TTP-LINK\ACS10Q1972.EM6 (156)



Site no. : RF Chamber Data no. : 156
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 2.4GHz High Power Wireless Outdoor CPE
 Power : DC 12V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WA5210G
 Memo : ANT_EXTERNAL

| | Ant. 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 | 2463.090 | 29.48 | 7.54 | 36.61 | 91.80 | 92.21 | 54.00 | -38.21 | Average |
| 2 | 2483.500 | 29.49 | 7.58 | 36.60 | 42.76 | 43.23 | 54.00 | 10.77 | Average |
| 3 | 2500.000 | 29.50 | 7.62 | 36.60 | 39.93 | 40.45 | 54.00 | 13.55 | 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.08, 10 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 10 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08, 10 | 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 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

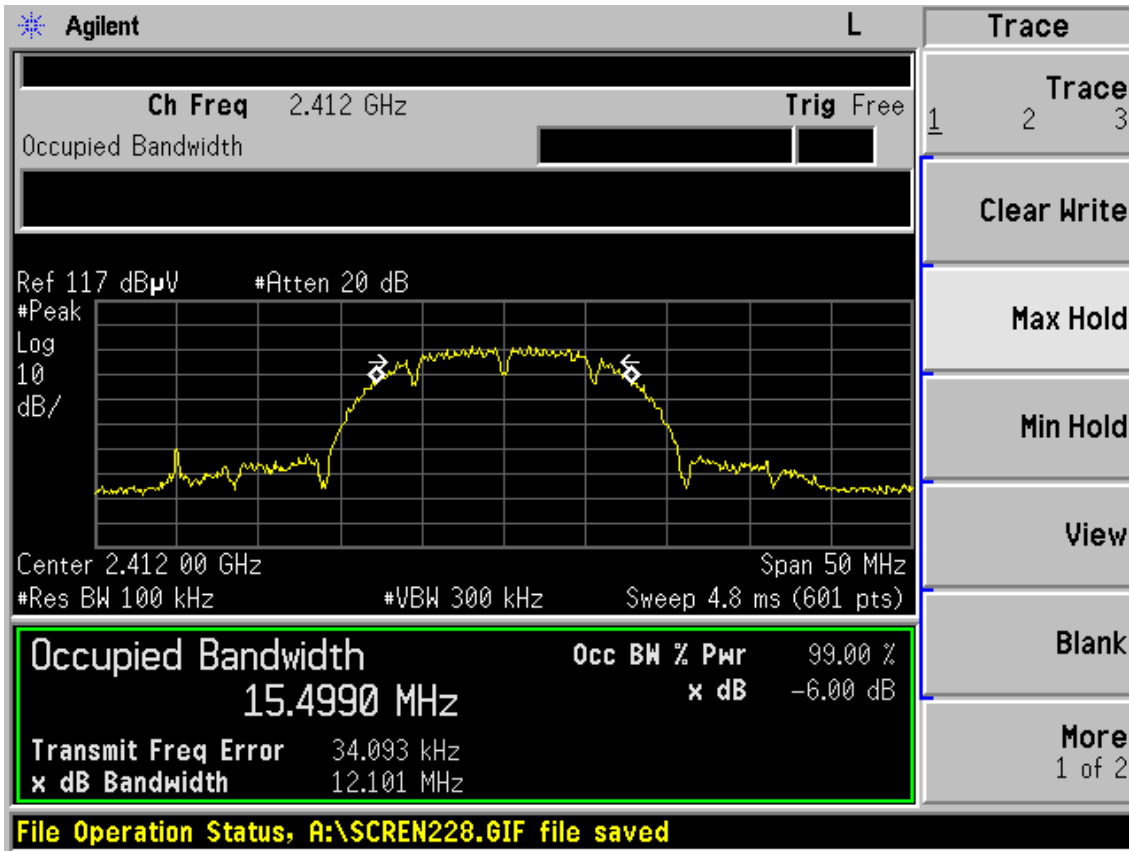
7.4. Test Results

| | | | | |
|---|--|------------------------|-----------------------|--------------------|
| EUT: 2.4GHz High Power Wireless Outdoor CPE M/N: TL-WA5210G | | | | |
| Test date:2010-06-25 | | Pressure: 100.6kpa | | Humidity: 56 % |
| Tested by: Sunny-Lu | | Test site: RF site | | Temperature : 25°C |
| Cable loss: 0.6 dB | | Attenuator loss: 20 dB | | |
| Antenna Gain | Vertical& Horizontal :12dBi External :9dBi | | | |
| Antenna | Test Mode | CH | 6dB bandwidth (MHz) | Limit (KHz) |
| Vertical | 11b | CH1 | 12.128 | >500 |
| | | CH6 | 12.086 | >500 |
| | | CH11 | 12.098 | >500 |
| | 11g | CH1 | 16.430 | >500 |
| | | CH6 | 16.484 | >500 |
| | | CH11 | 16.418 | >500 |
| Horizontal | 11b | CH1 | 12.079 | >500 |
| | | CH6 | 12.111 | >500 |
| | | CH11 | 12.100 | >500 |
| | 11g | CH1 | 16.445 | >500 |
| | | CH6 | 16.454 | >500 |
| | | CH11 | 16.414 | >500 |
| External | 11b | CH1 | 12.101 | >500 |
| | | CH6 | 12.166 | >500 |
| | | CH11 | 12.120 | >500 |
| | 11g | CH1 | 16.458 | >500 |
| | | CH6 | 16.453 | >500 |
| | | CH11 | 16.416 | >500 |
| Conclusion : PASS | | | | |

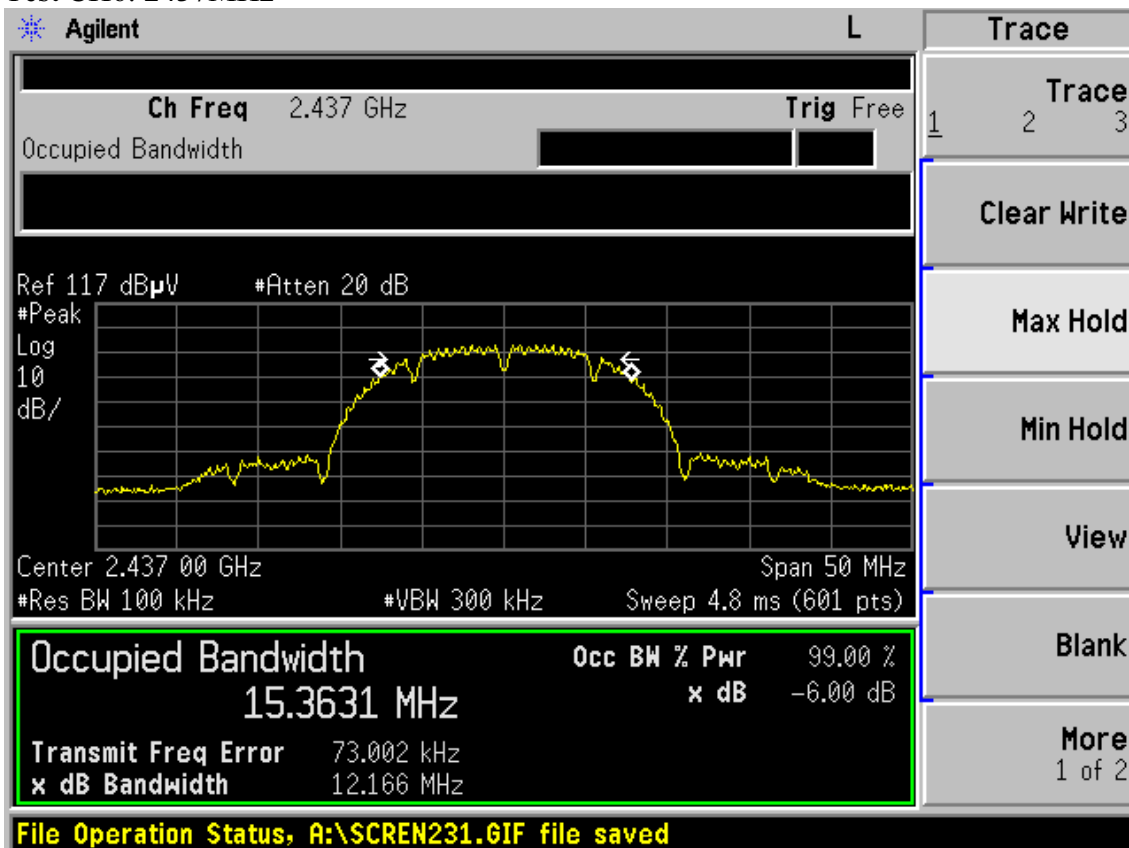
External

Test Mode: IEEE 802.11b TX

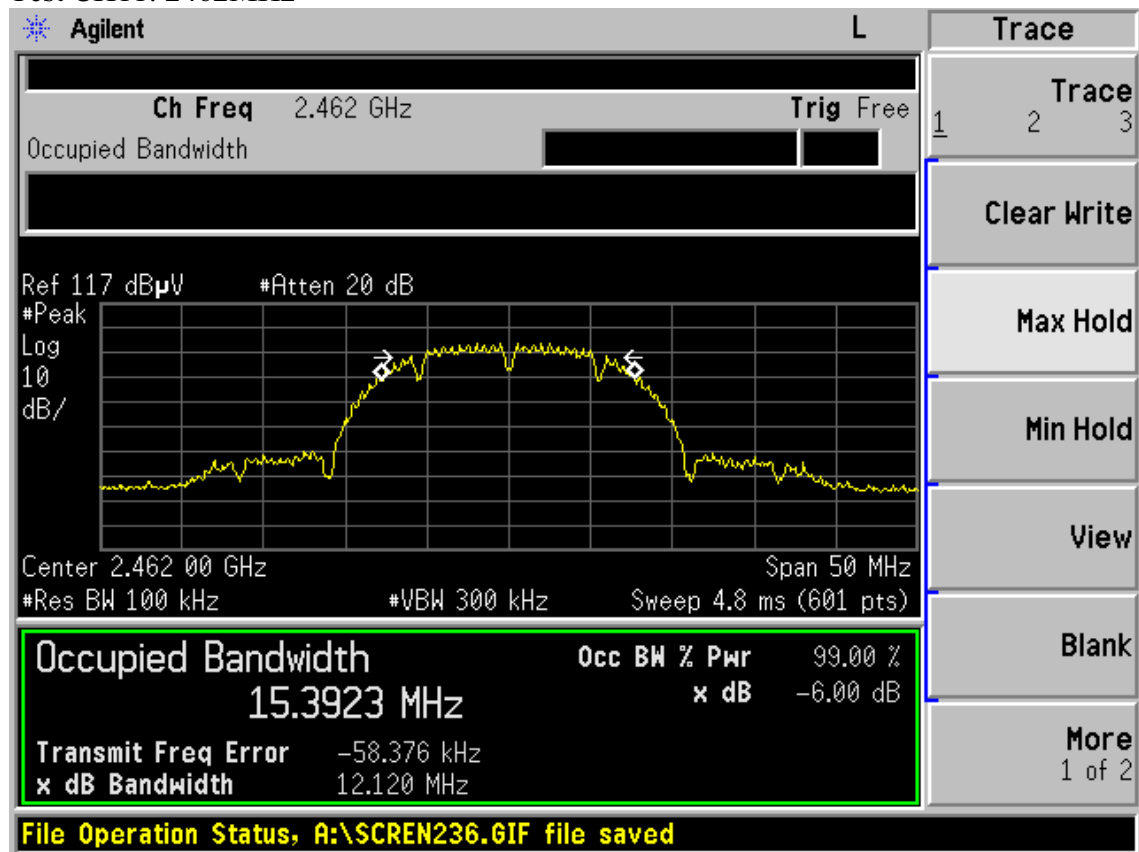
Test CH1: 2412MHz



Test CH6: 2437MHz

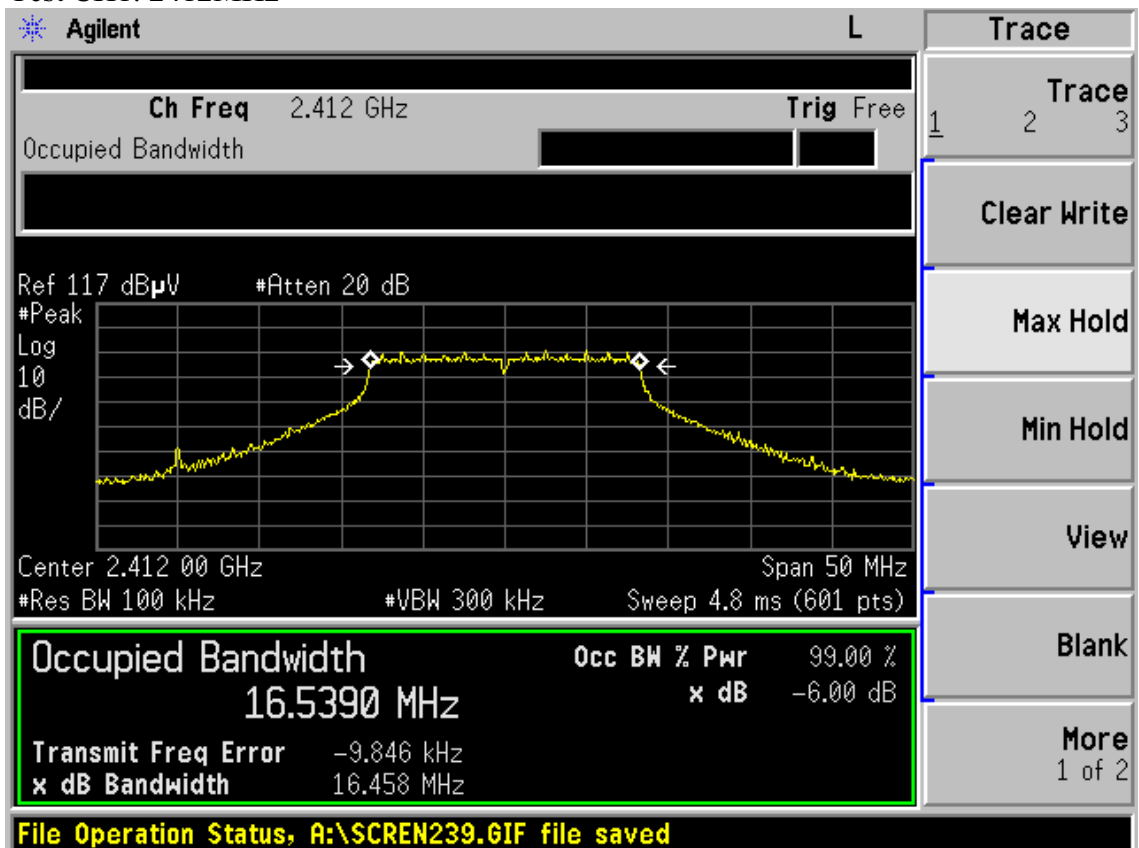


Test CH1: 2462MHz

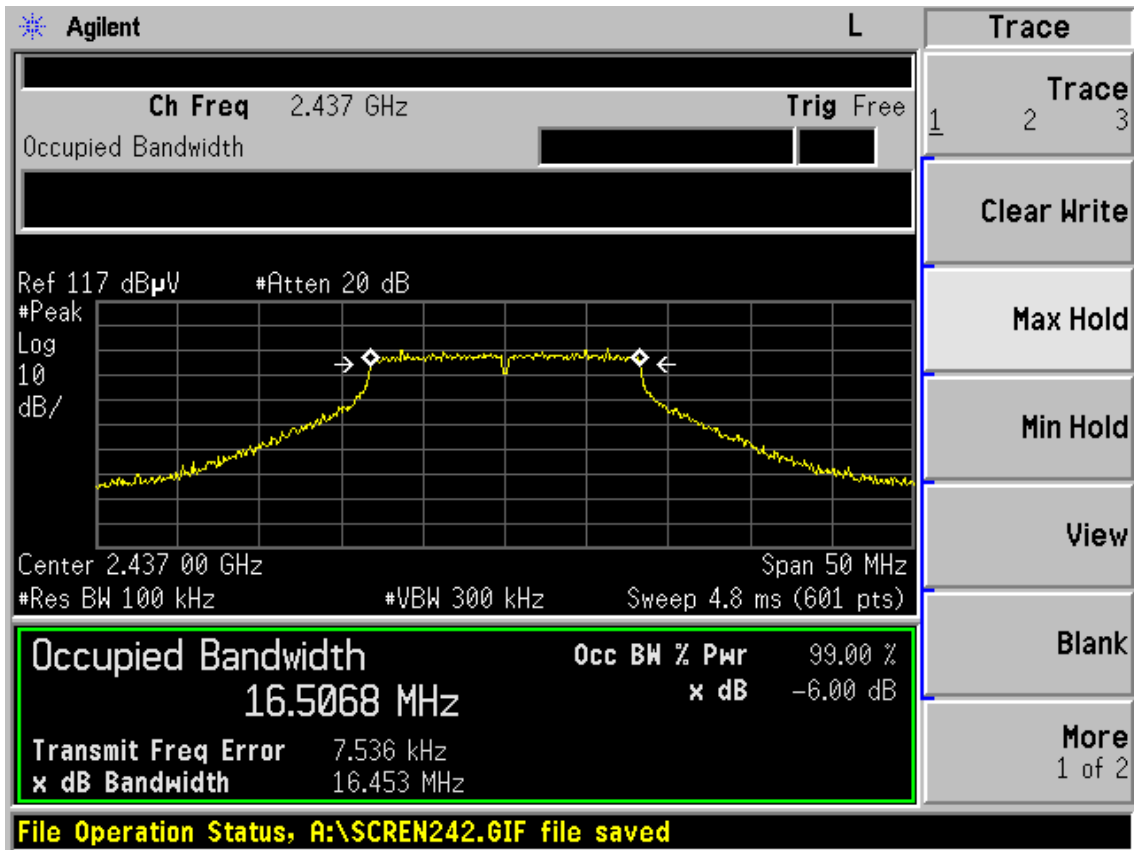


Test Mode: IEEE 802.11g TX

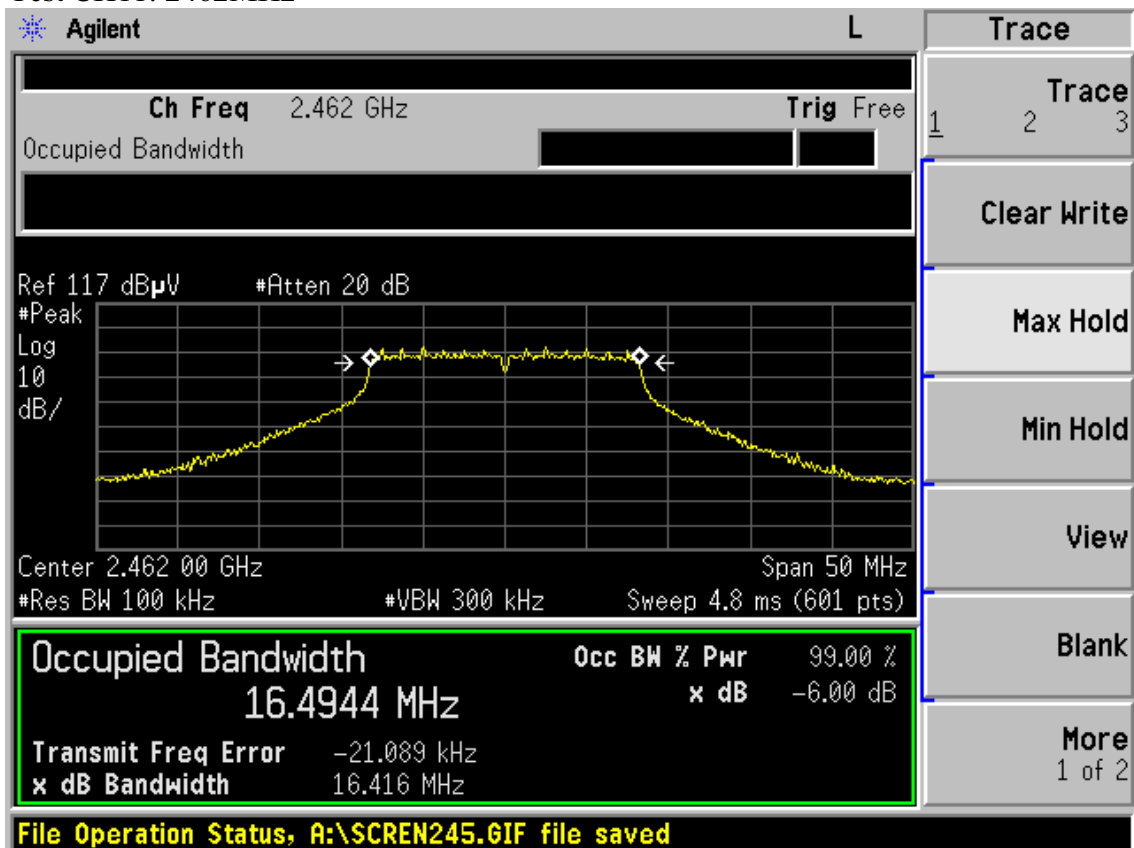
Test CH1: 2412MHz



Test CH6: 2437MHz



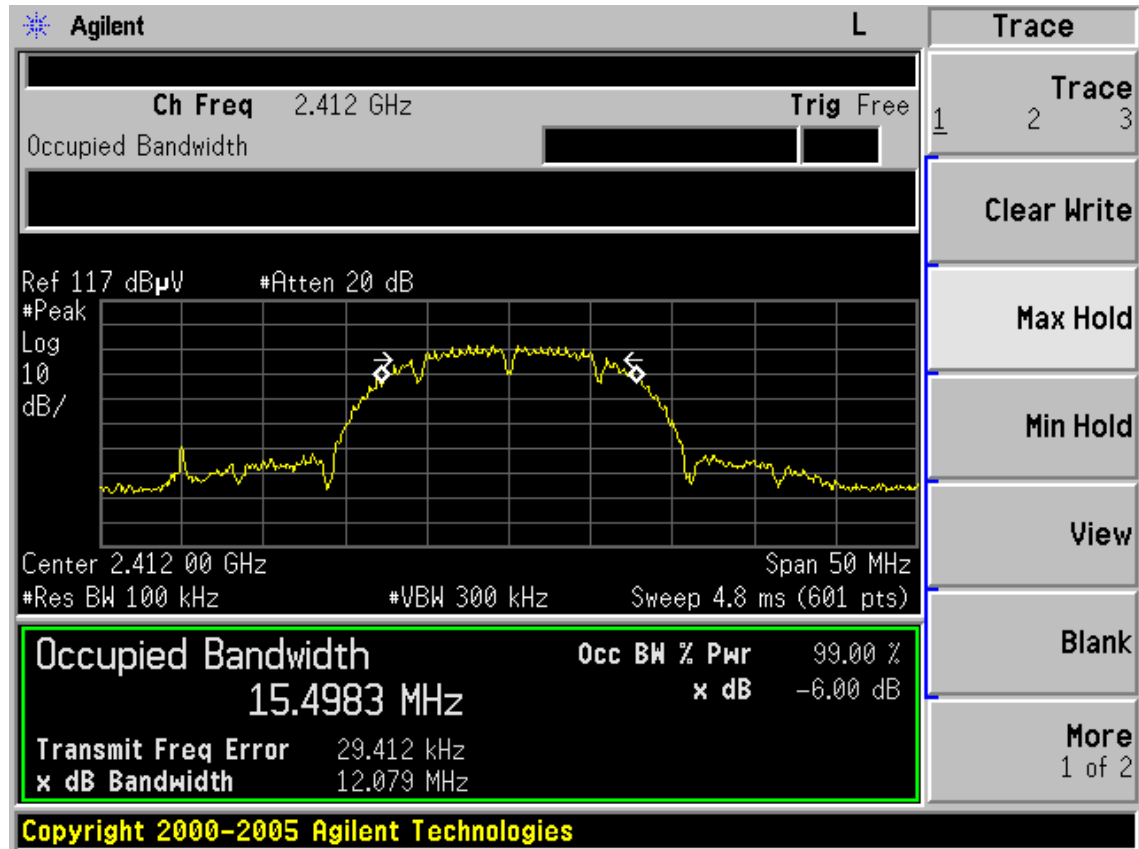
Test CH11: 2462MHz



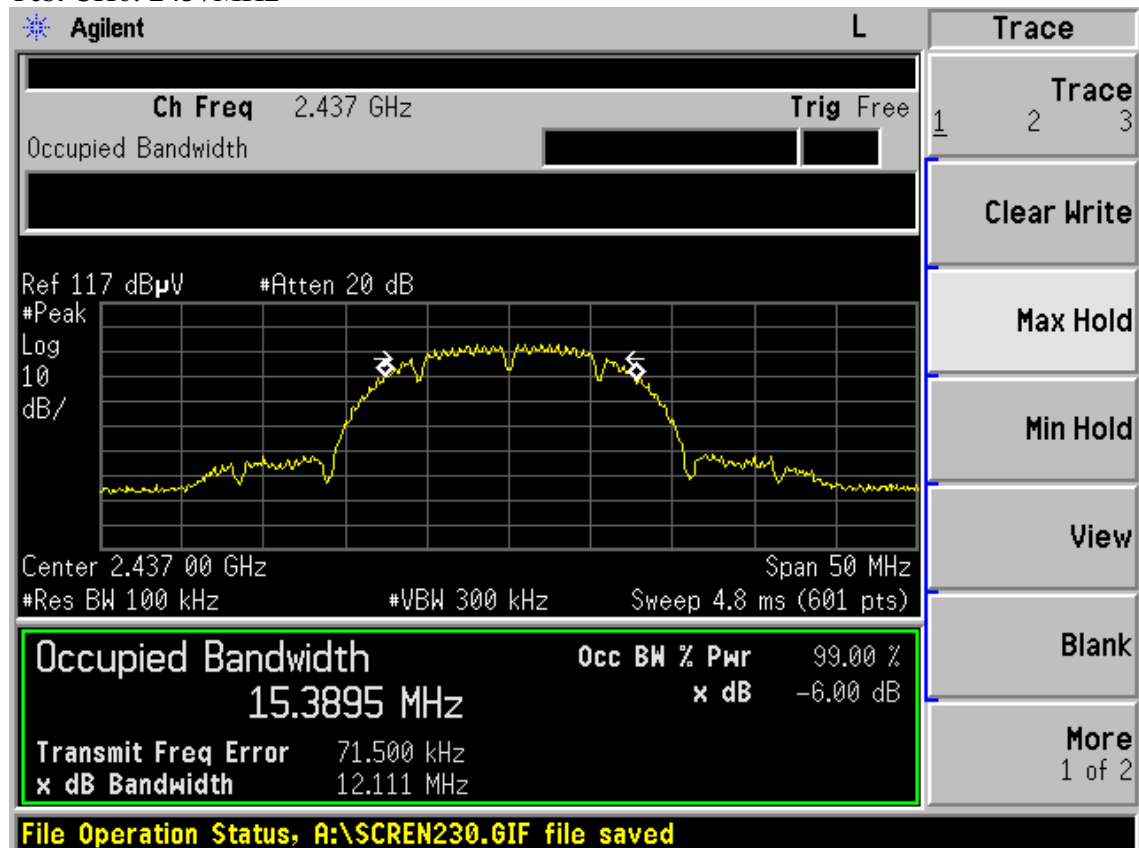
Horizontal

Test Mode: IEEE 802.11b TX

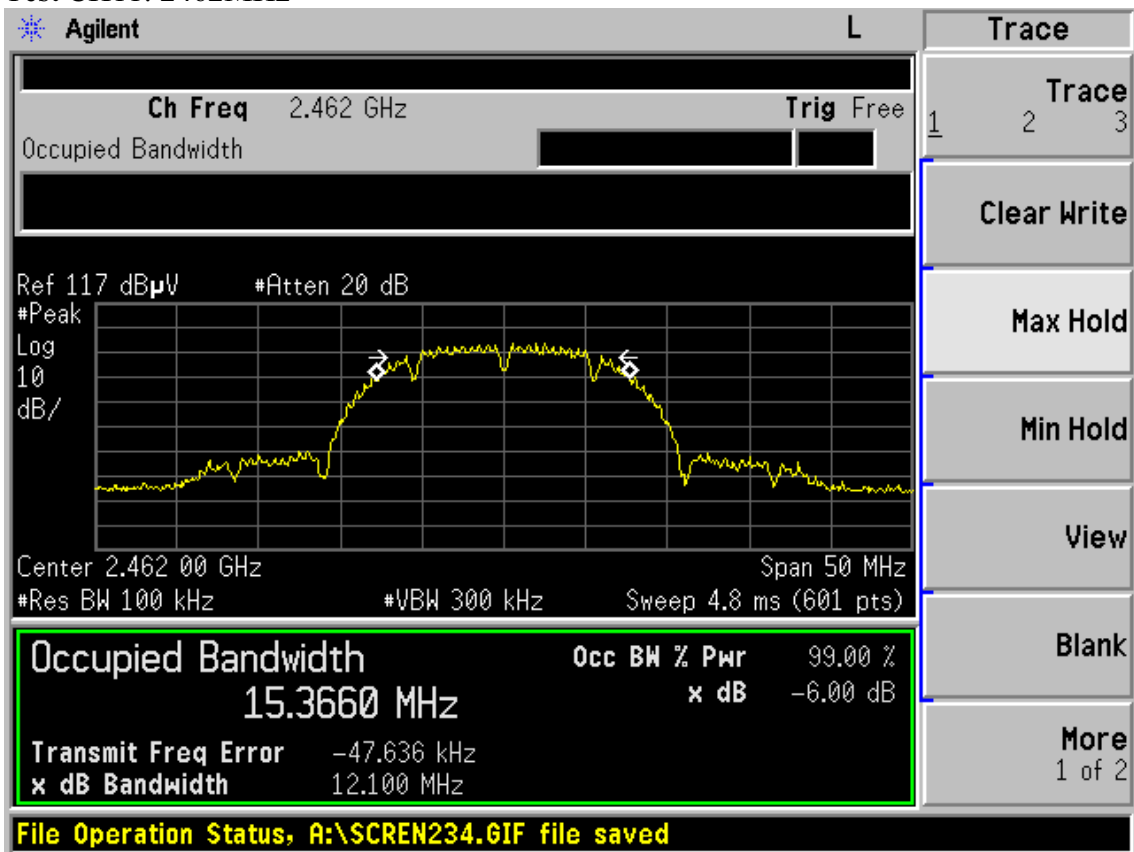
Test CH1: 2412MHz



Test CH6: 2437MHz

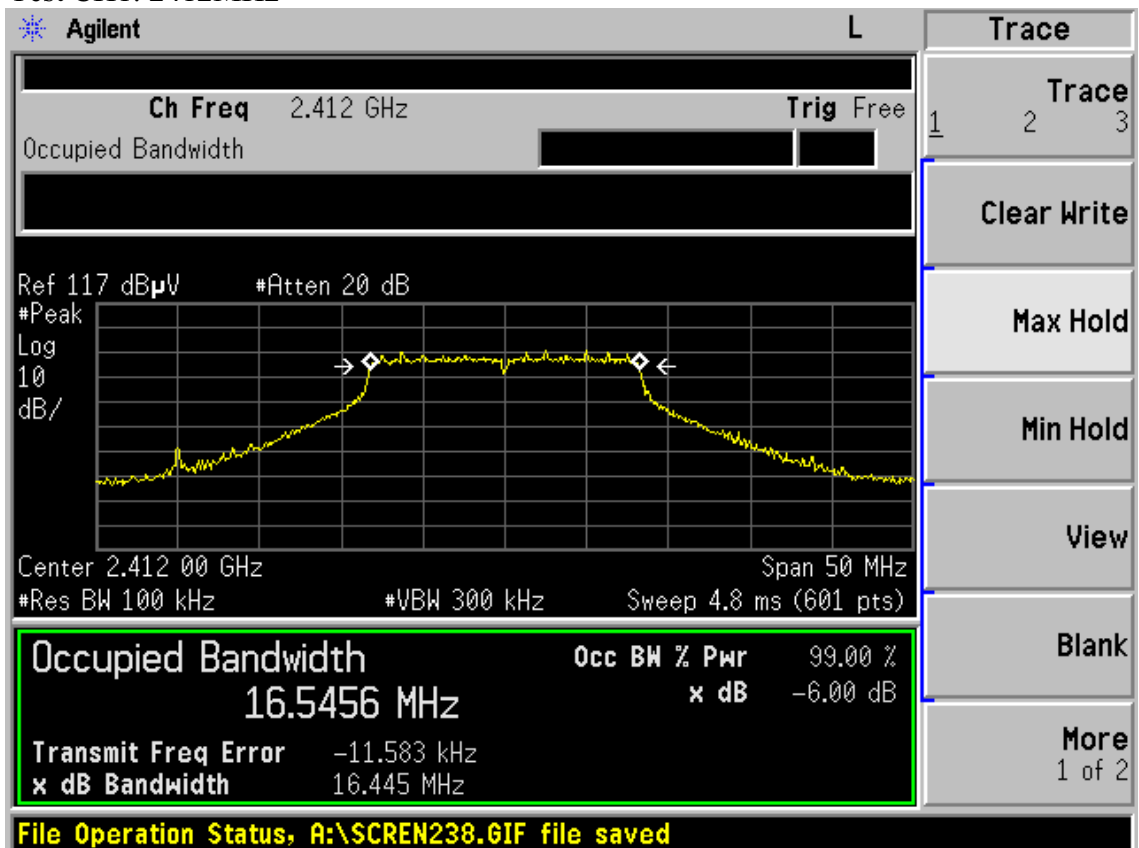


Test CH1: 2462MHz

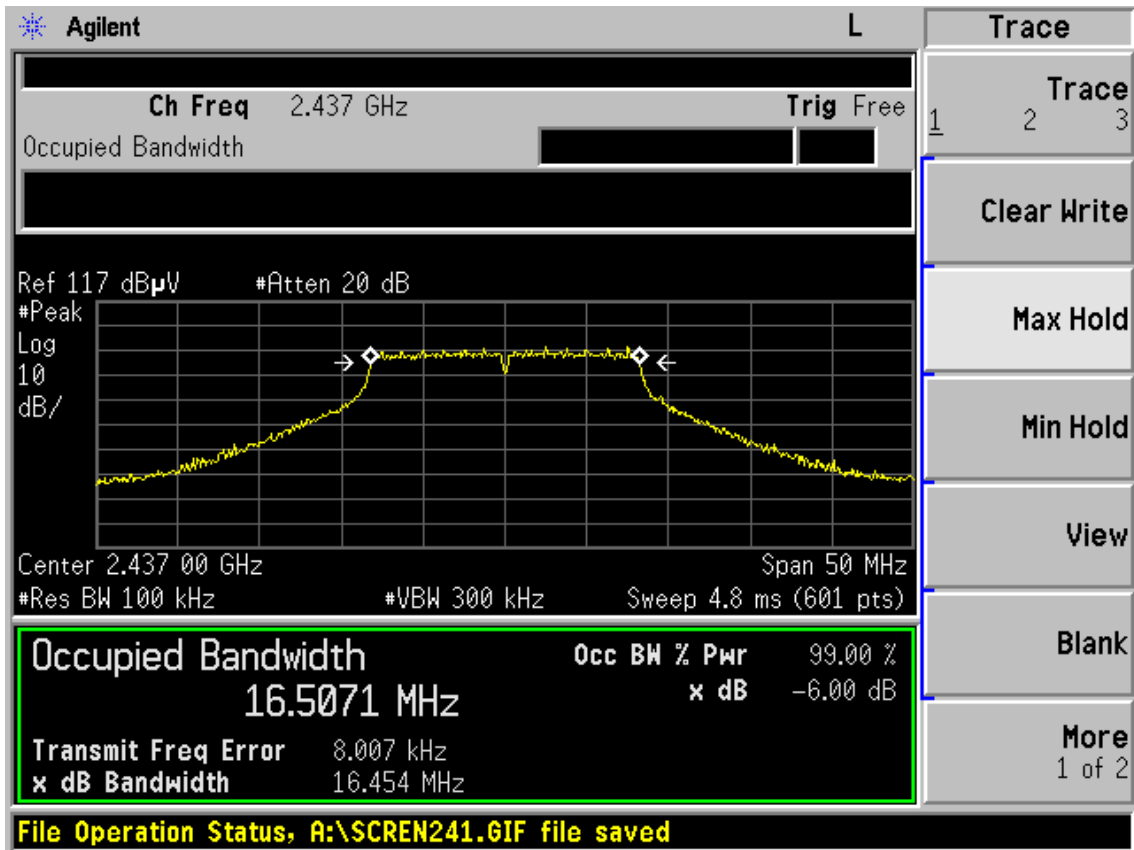


Test Mode: IEEE 802.11g TX

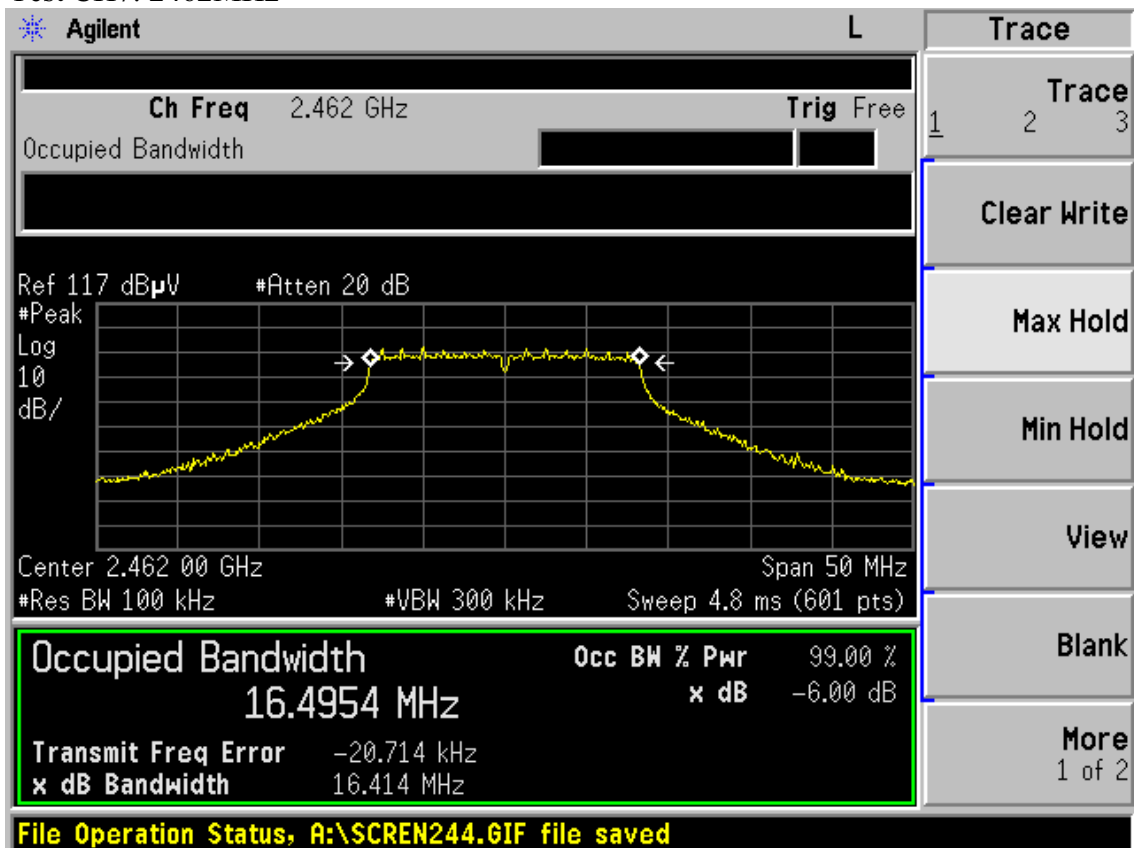
Test CH1: 2412MHz



Test CH4: 2437MHz



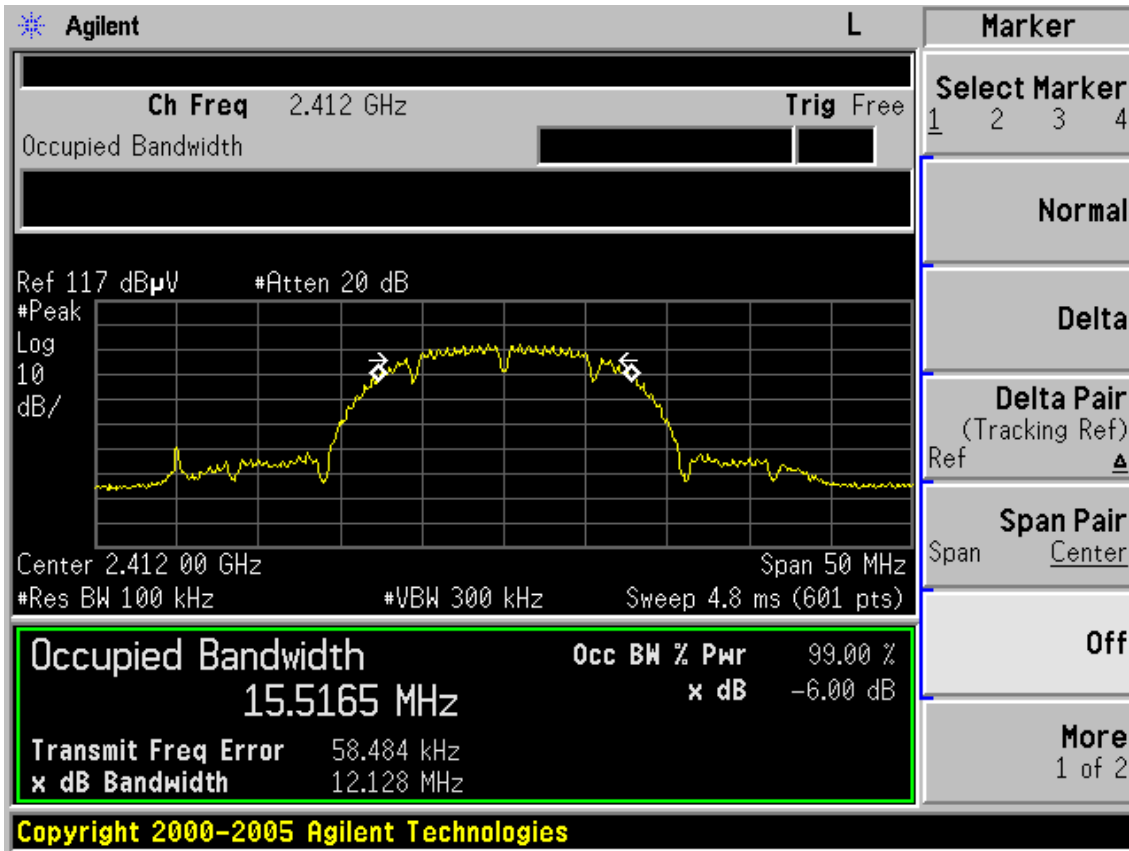
Test CH7: 2462MHz



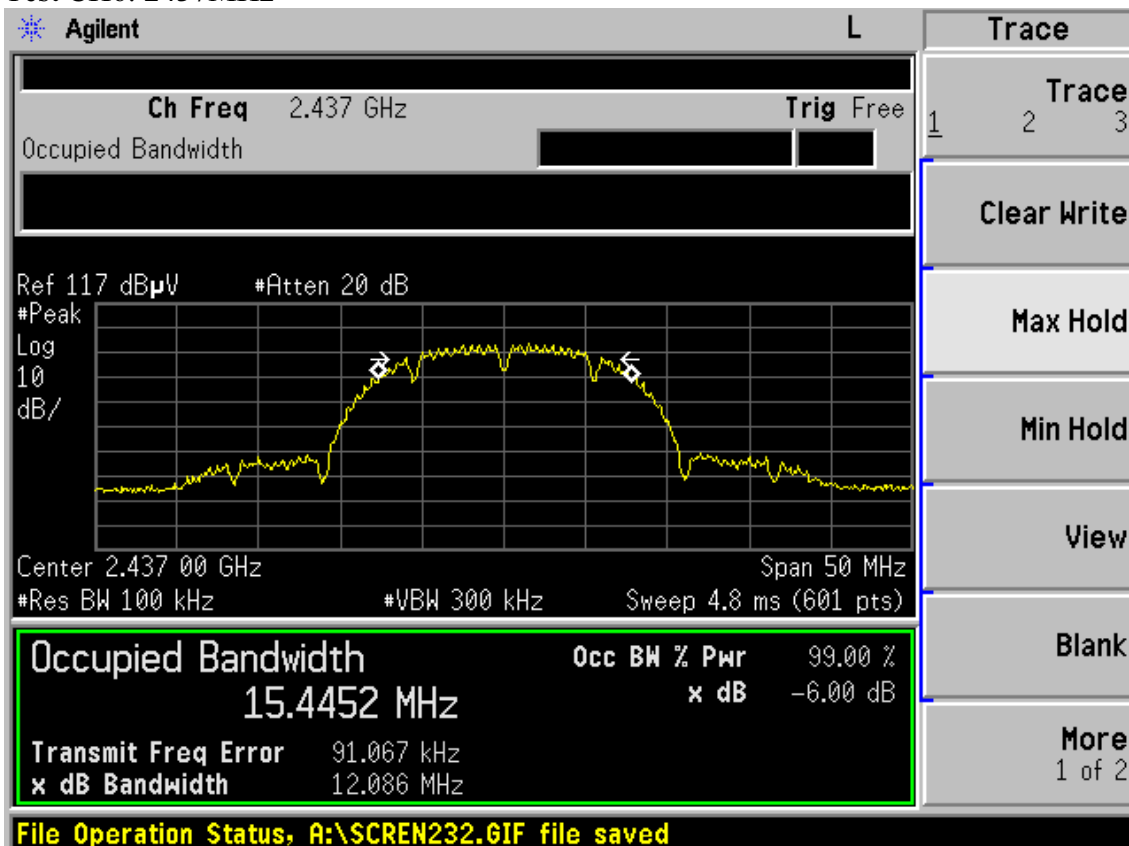
Vertical

Test Mode: IEEE 802.11b TX

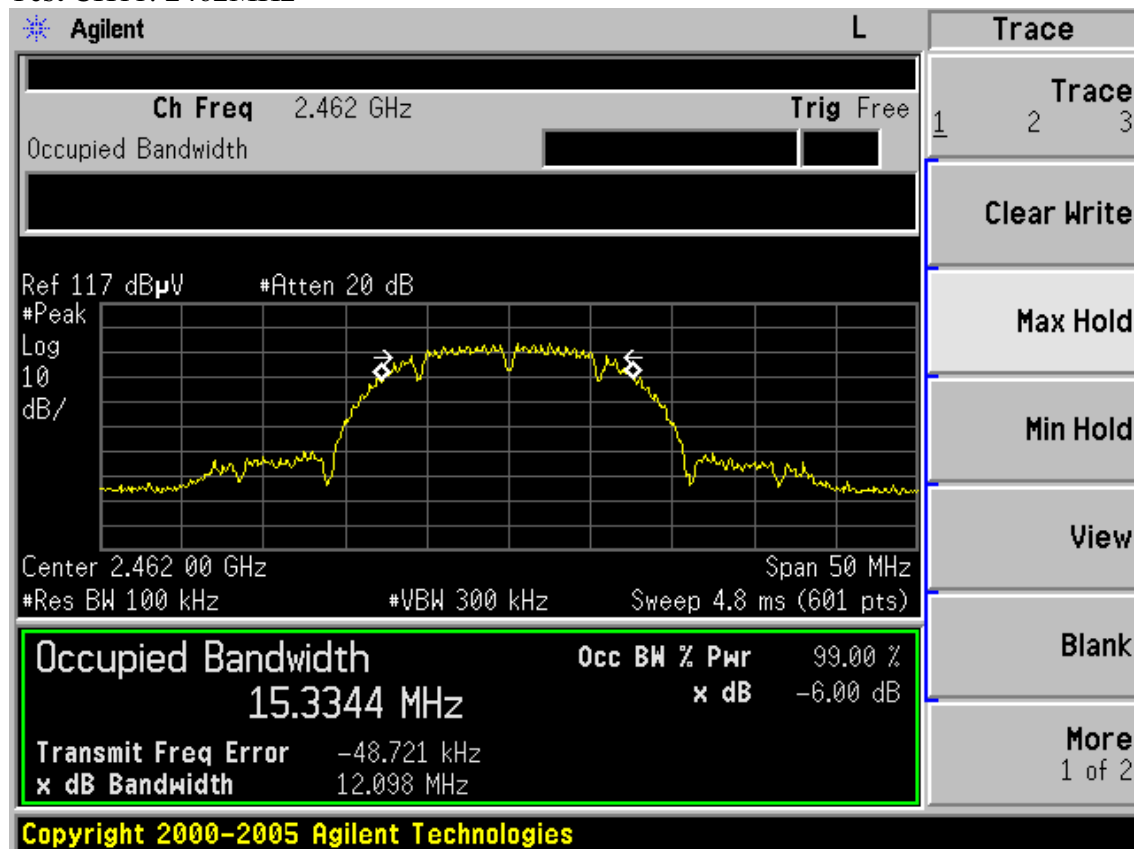
Test CH1: 2412MHz



Test CH6: 2437MHz

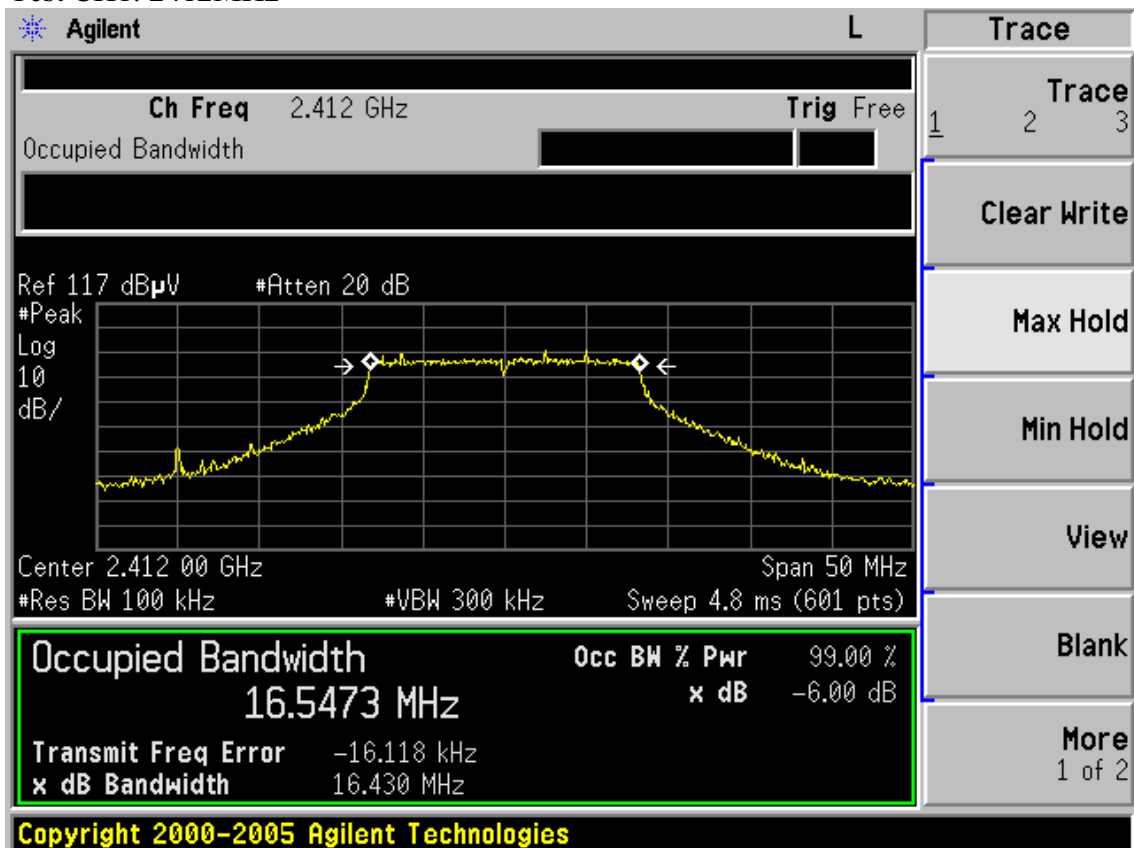


Test CH1: 2462MHz

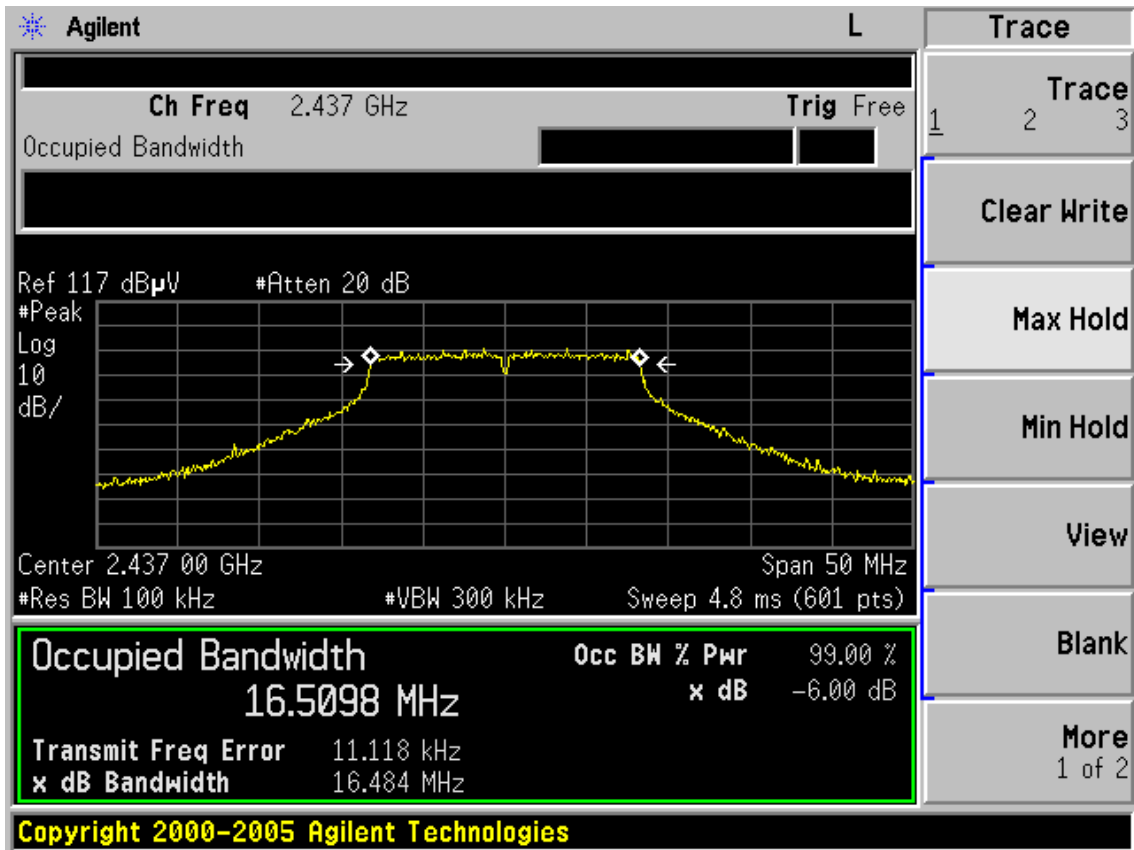


Test Mode: IEEE 802.11g TX

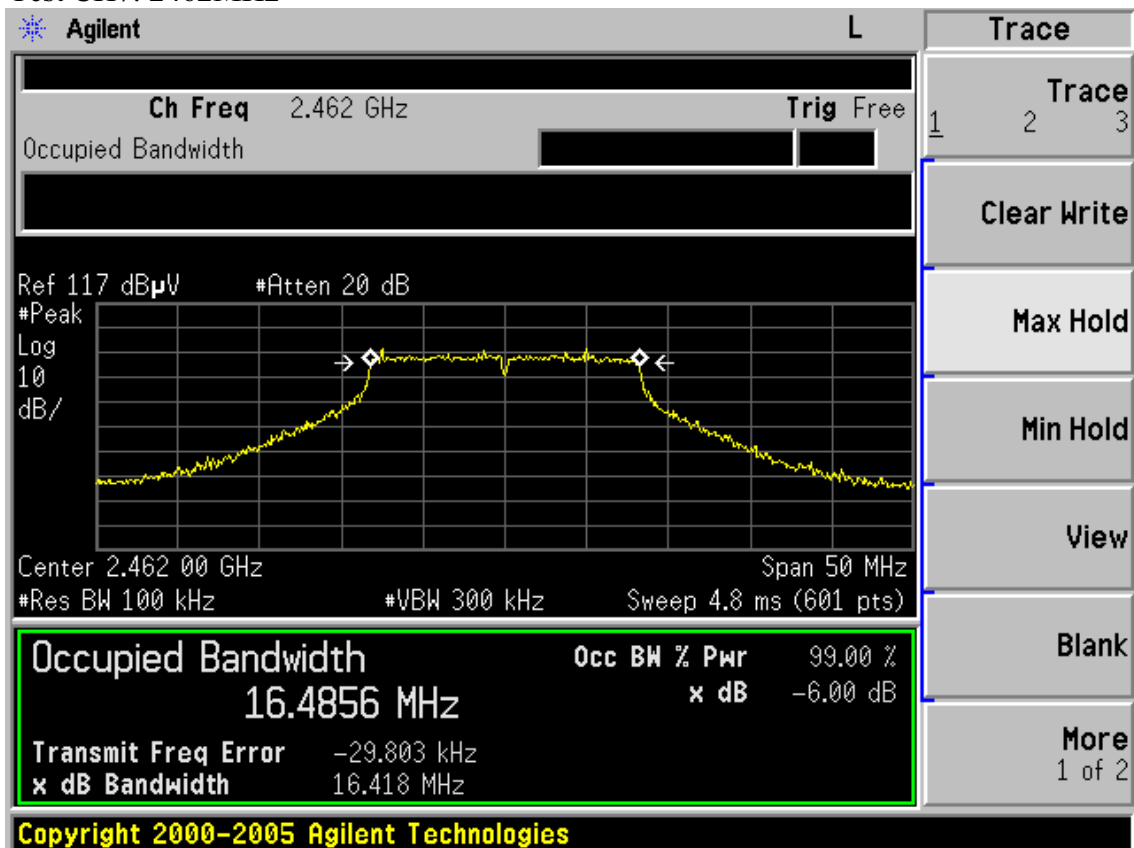
Test CH1: 2412MHz



Test CH4: 2437MHz



Test CH7: 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 | May.08,10 | 1Year |
| 2. | Power sensor | Anritsu | MA2491A | 0033005 | May.08,10 | 1Year |
| 3. | Attenuator | Agilent | 8491B | MY39262165 | May.08,10 | 1 Year |
| 4. | RF Cable | Hubersuhner | SUCOFLEX 102 | 28618/2 | May.08,10 | 1Year |
| 5. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08,10 | 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 gain exceed than 6dBi, the conducted output power shall be reduced below the stated values by the amount in dB that the gain of exceeds 6dBi

8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, Use a PK power meter which's bandwidth is above 6dB bandwidth of signal to measure out each test modes' PK output power.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4. Test Results

| | | |
|---|---------------------|---------------------|
| EUT: 2.4GHz High Power Wireless Outdoor CPE | | |
| M/N: TL-WA5210G | | |
| Test date: 2010-10-25 | Pressure: 100.6 kpa | Humidity: 60 % |
| Tested by: Sunny-lu | Test site: RF Site | Temperature : 26 °C |

| Cable loss: 0.6 dB | | Attenuator loss: 20 dB | | |
|--|----------------------------|------------------------|------------------------------|----------------------|
| Antenna Gain | Vertical& Horizontal 12dBi | | External 9dBi | |
| Antenna Type | Test Mode | CH | Peak output Power (dBm) | Limit(Note) (dBm) |
| Vertical | 11b | CH1 | 25.30 | 28 |
| | | CH6 | 25.40 | 28 |
| | | CH11 | 23.80 | 28 |
| | 11g | CH1 | 25.37 | 28 |
| | | CH6 | 26.25 | 28 |
| | | CH11 | 24.02 | 28 |
| Horizontal | 11b | CH1 | 25.45 | 28 |
| | | CH6 | 24.72 | 28 |
| | | CH11 | 24.38 | 28 |
| | 11g | CH1 | 25.72 | 28 |
| | | CH6 | 25.90 | 28 |
| | | CH11 | 24.32 | 28 |
| External | 11b | CH1 | 24.27 | 29 |
| | | CH6 | 24.79 | 29 |
| | | CH11 | 23.58 | 29 |
| | 11g | CH1 | 25.81 | 29 |
| | | CH6 | 26.04 | 29 |
| | | CH11 | 25.16 | 29 |
| Conclusion : PASS | | | | |
| Note: For transmitter(P2P) employed antennas with directional gain greater than 6dBi, the maximum conducted output power should be reduced by 1dB for every 3dB that the directional gain of the antenna exceed 6dBi | | | | |

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, 10 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 10 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08, 10 | 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

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

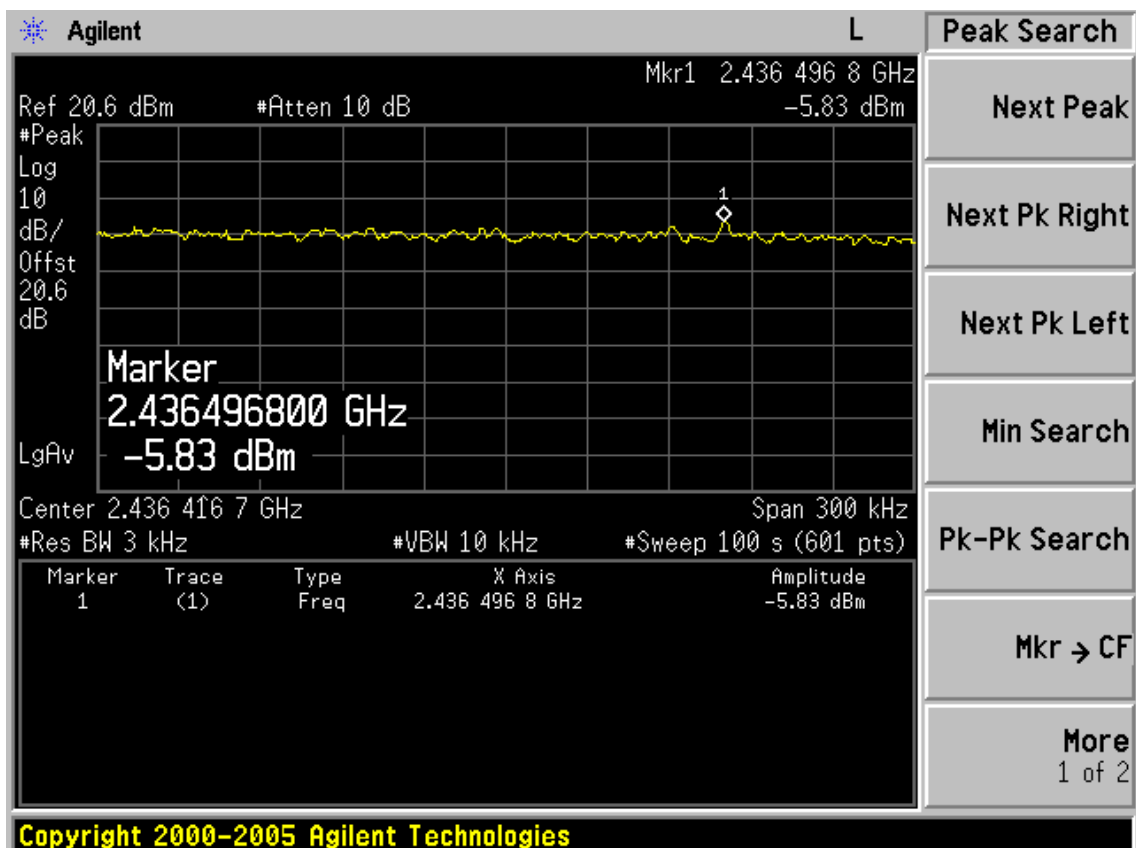
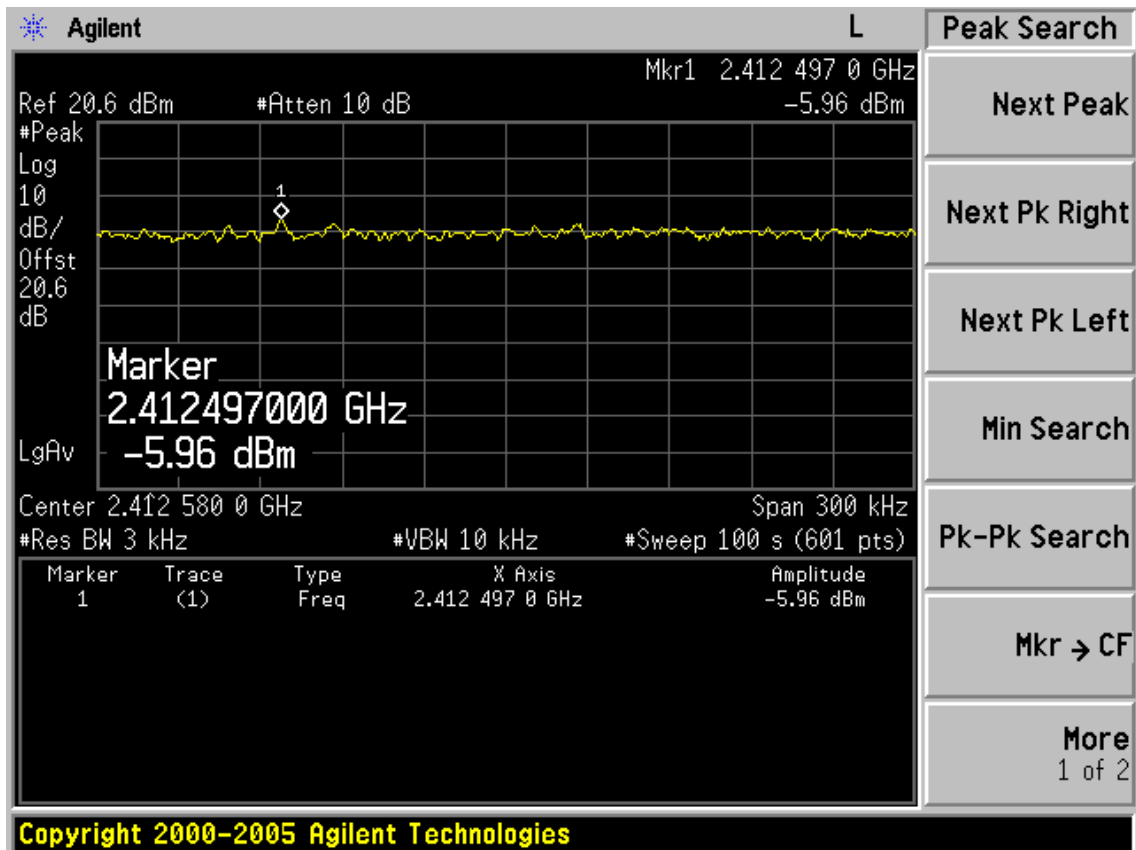
9.4. Test Results

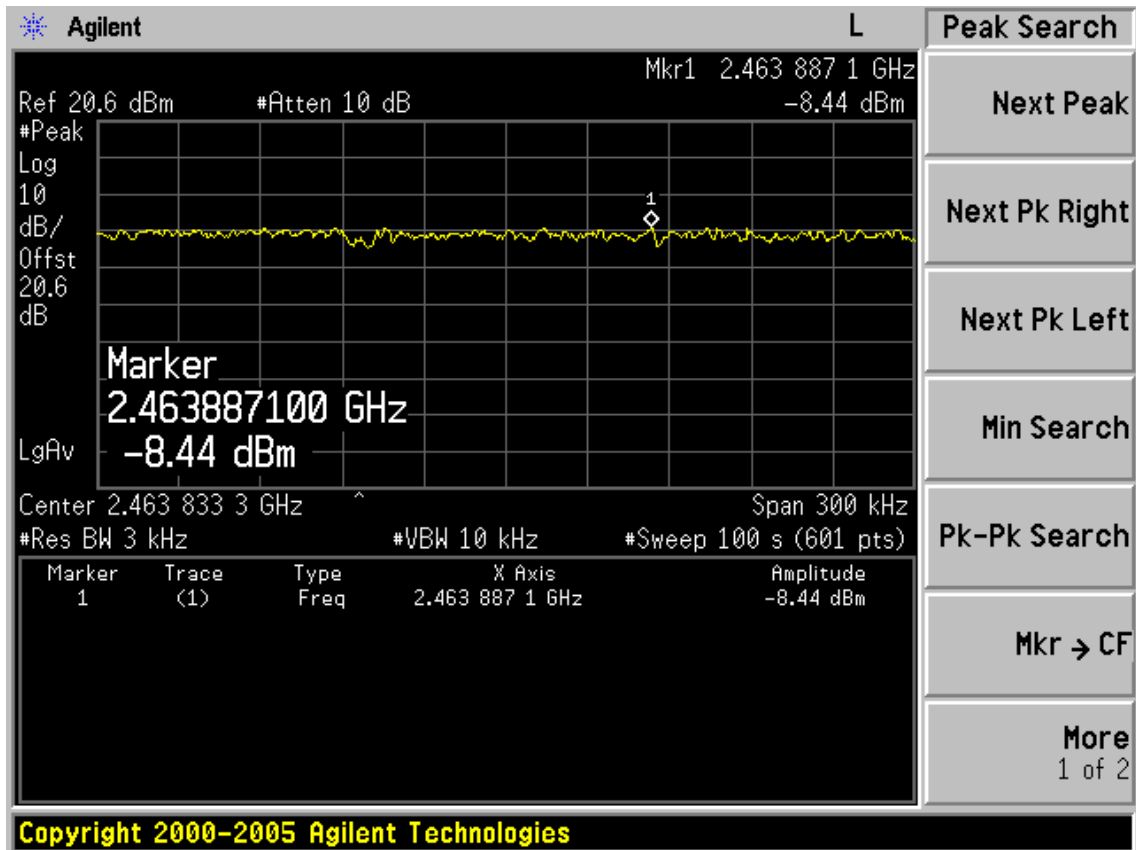
| | | |
|---|---------------------|--------------------|
| EUT: 2.4GHz High Power Wireless Outdoor CPE | | |
| M/N: TL-WA5210G | | |
| Test date: 2010-10-25 | Pressure: 100.6 kpa | Humidity: 60 % |
| Tested by: Sunny-lu | Test site: RF Site | Temperature : 25°C |

| | | | | |
|--|---|------------------------|-------------------------------|---------------------|
| Cable loss: 0.6 dB | | Attenuator loss: 20 dB | | |
| Antenna Gain | Vertical &Horizontal Antenna : 12dBi External Antenna : 9dBi | | | |
| Antenna Type | Test Mode | CH | Power density (dBm/3KHz) | Limit (dBm/3KHz) |
| Vertical | 11b | CH1 | -4.82 | 6 |
| | | CH6 | -4.46 | 6 |
| | | CH11 | -5.49 | 6 |
| | 11g | CH1 | -6.94 | 6 |
| | | CH6 | -6.61 | 6 |
| | | CH11 | -9.38 | 6 |
| Horizontal | 11b | CH1 | -5.07 | 6 |
| | | CH6 | -6.77 | 6 |
| | | CH11 | -7.00 | 6 |
| | 11g | CH1 | -7.89 | 6 |
| | | CH6 | -8.27 | 6 |
| | | CH11 | -9.31 | 6 |
| External | 11b | CH1 | -5.96 | 7 |
| | | CH6 | -5.83 | 7 |
| | | CH11 | -8.44 | 7 |
| | 11g | CH1 | -7.54 | 7 |
| | | CH6 | -8.30 | 7 |
| | | CH11 | -7.39 | 7 |
| Conclusion : PASS | | | | |
| Note: For transmitter(P2P) employed antennas with directional gain greater than 6dBi, the maximum conducted output power should be reduced by 1dB for every 3dB that the directional gain of the antenna exceed 6dBi, also this method will be used to determine the power spectrum density. | | | | |

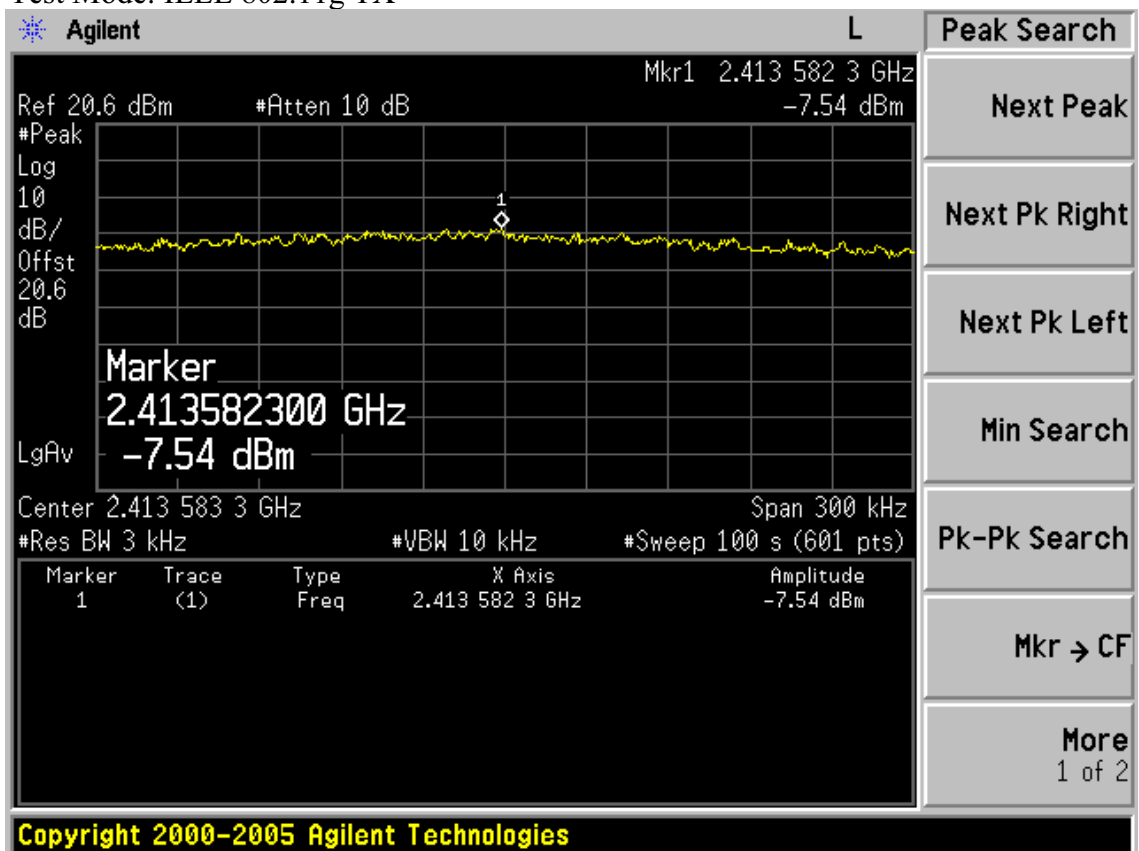
External

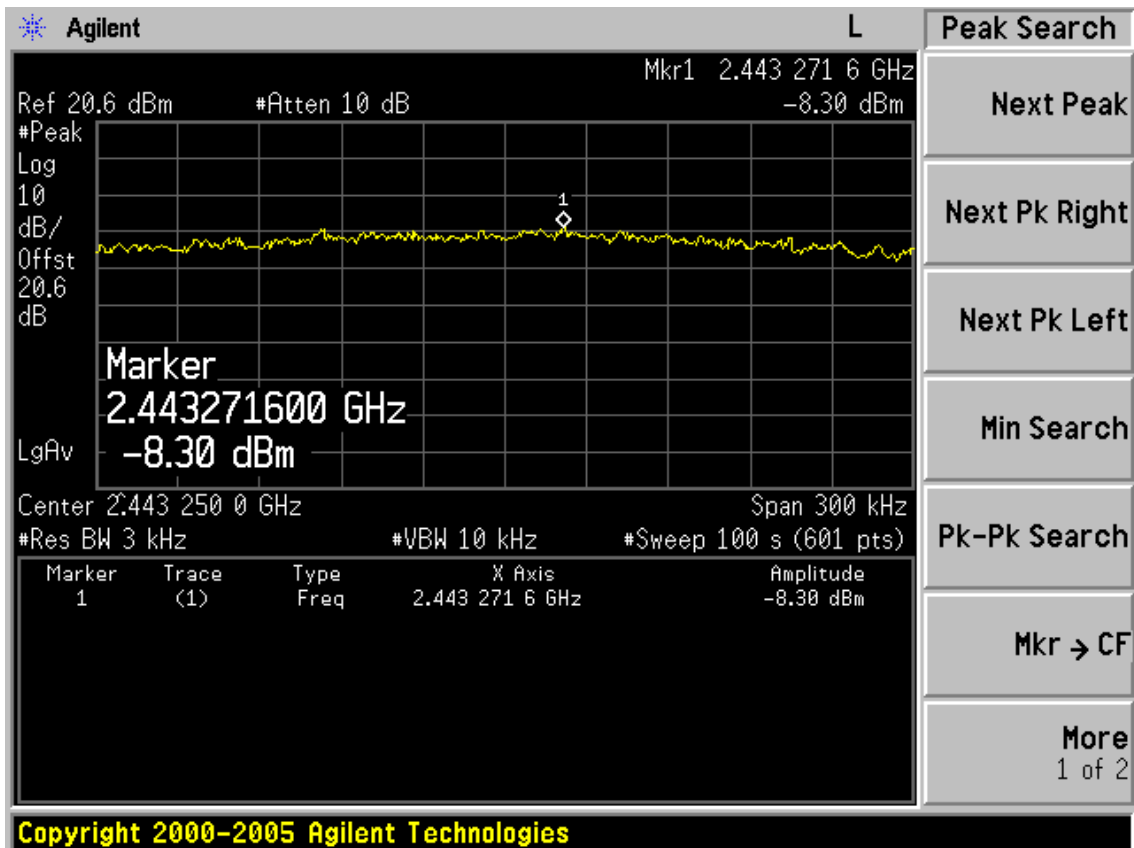
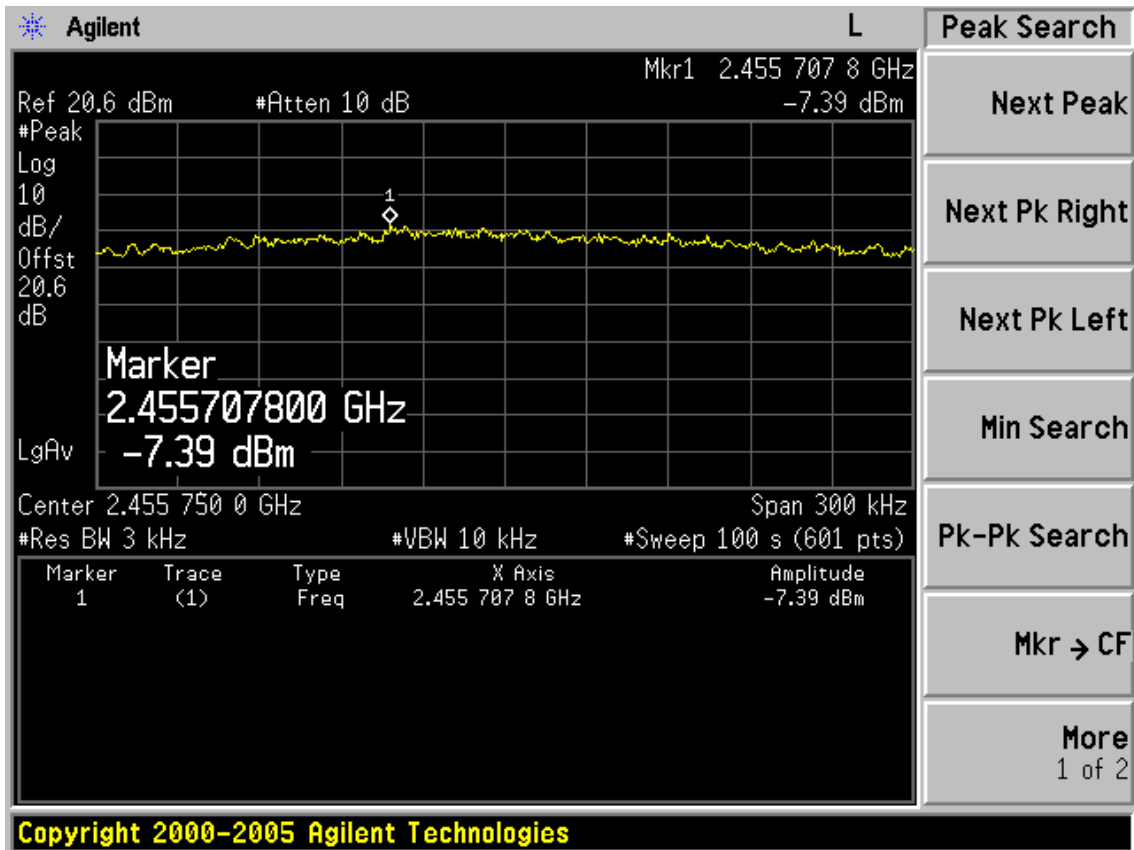
Test Mode: IEEE 802.11b TX





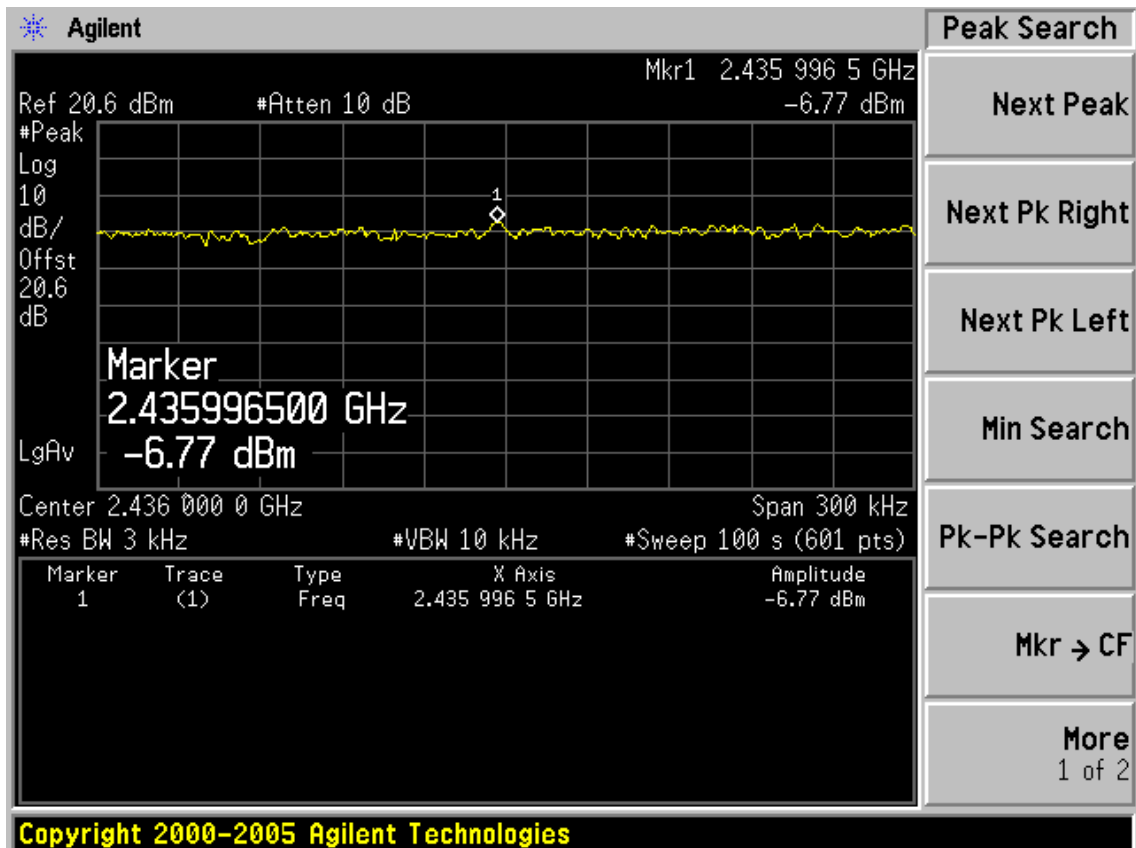
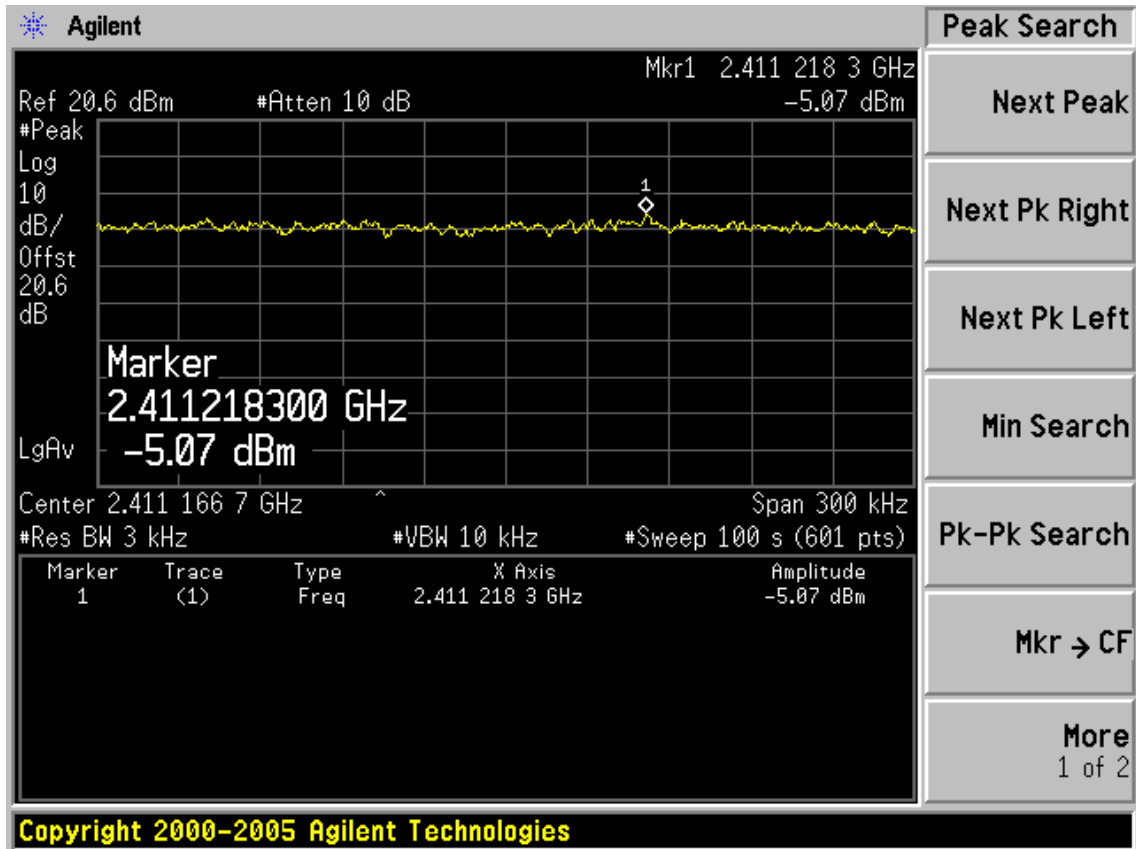
Test Mode: IEEE 802.11g TX

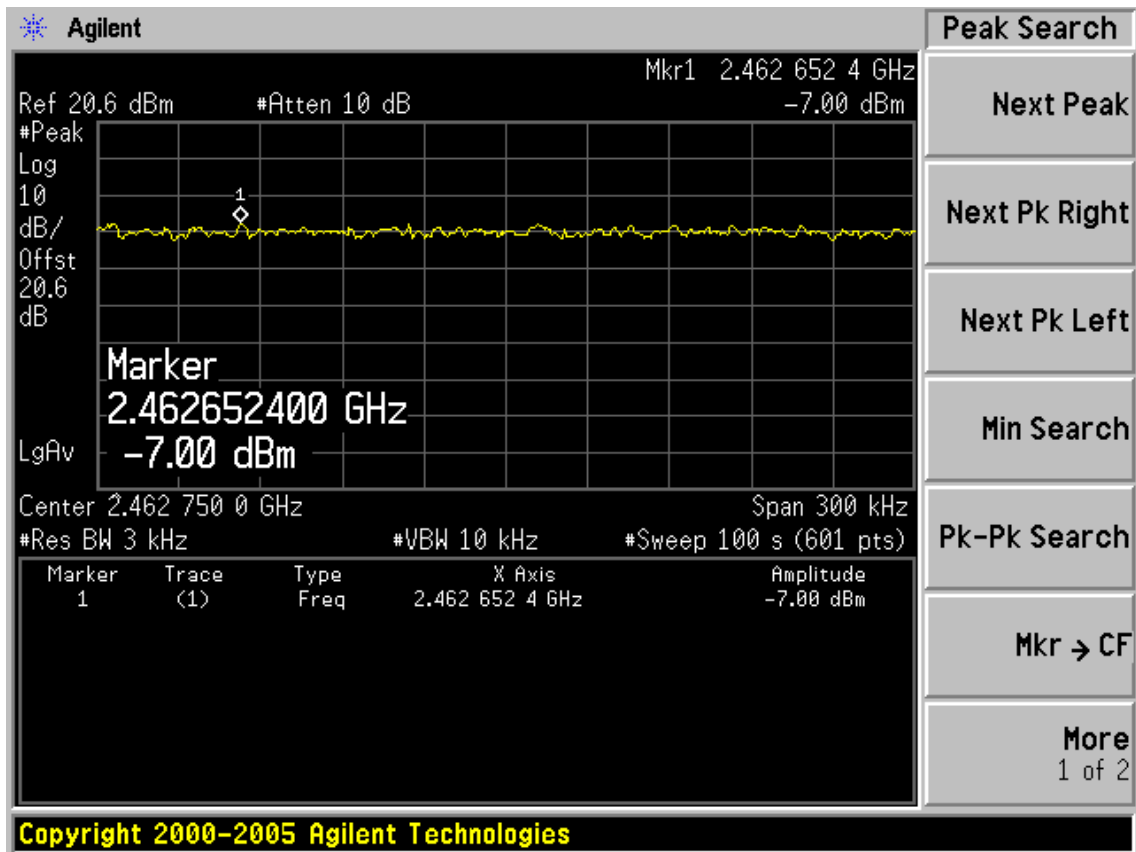




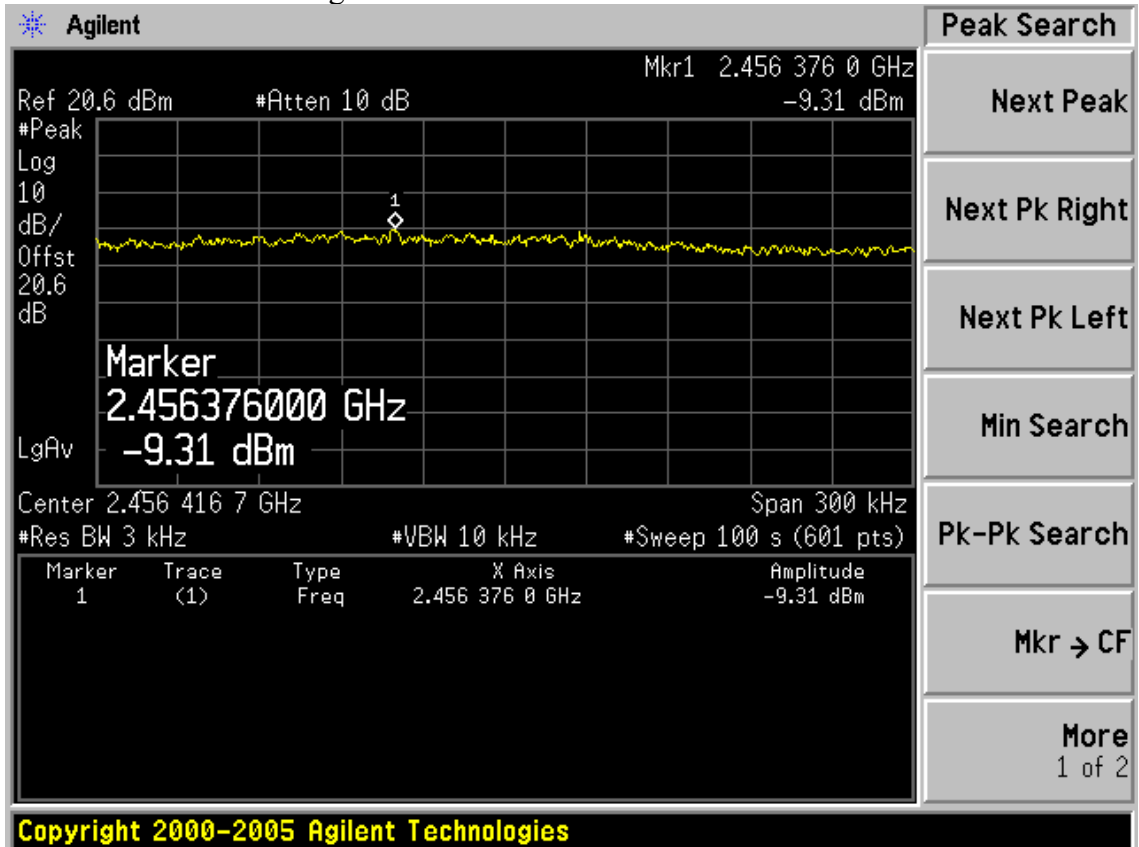
Horizontal

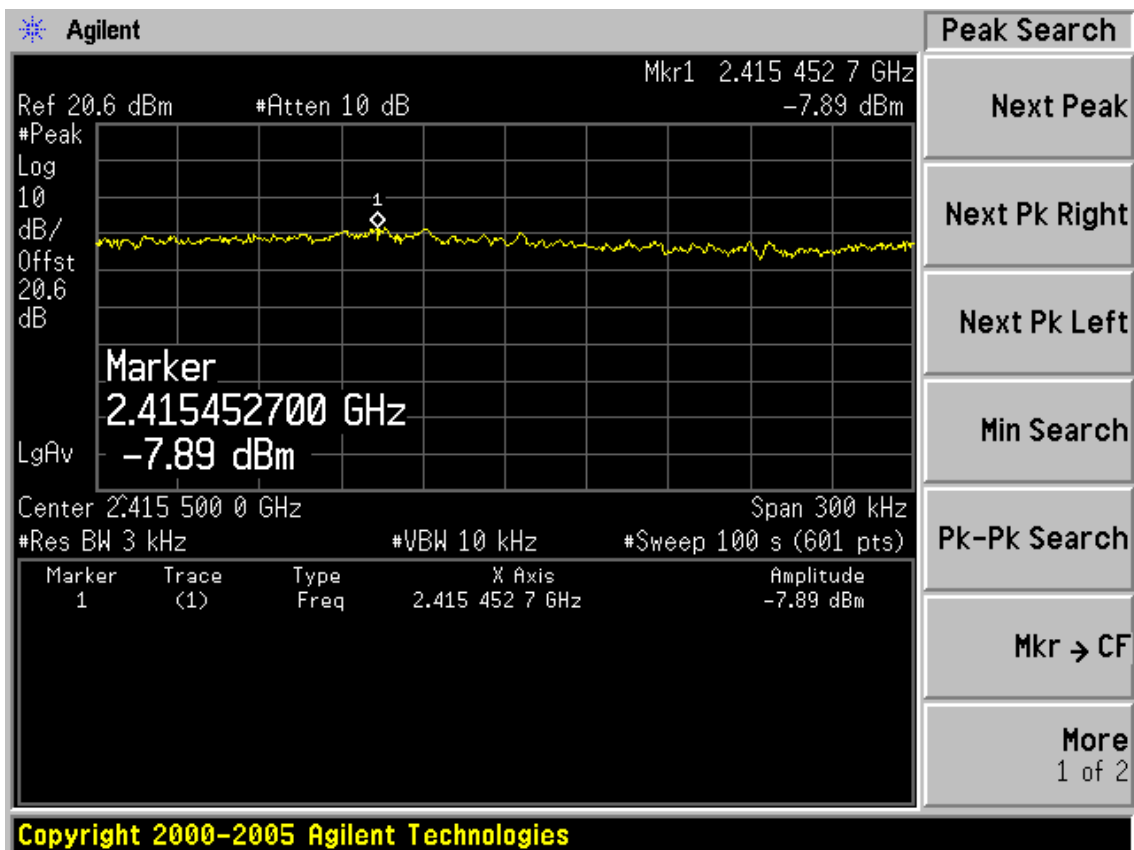
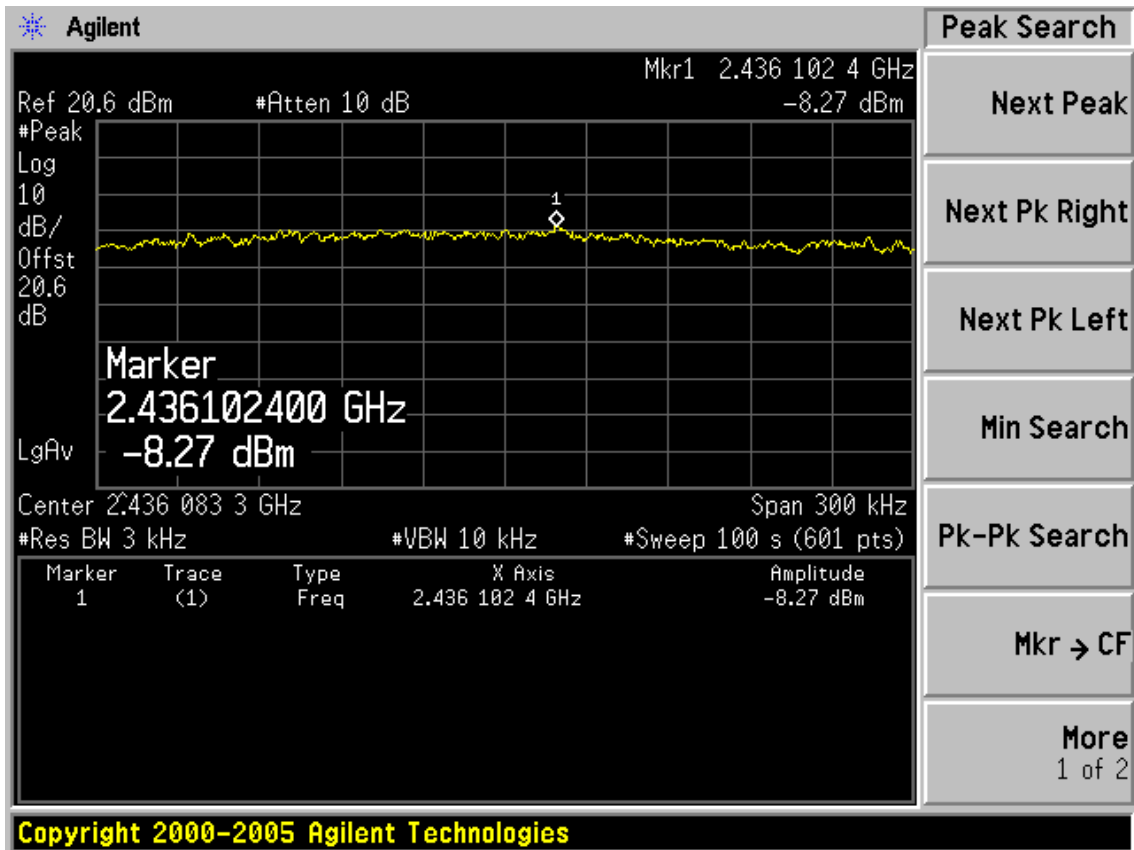
Test Mode: IEEE 802.11b TX





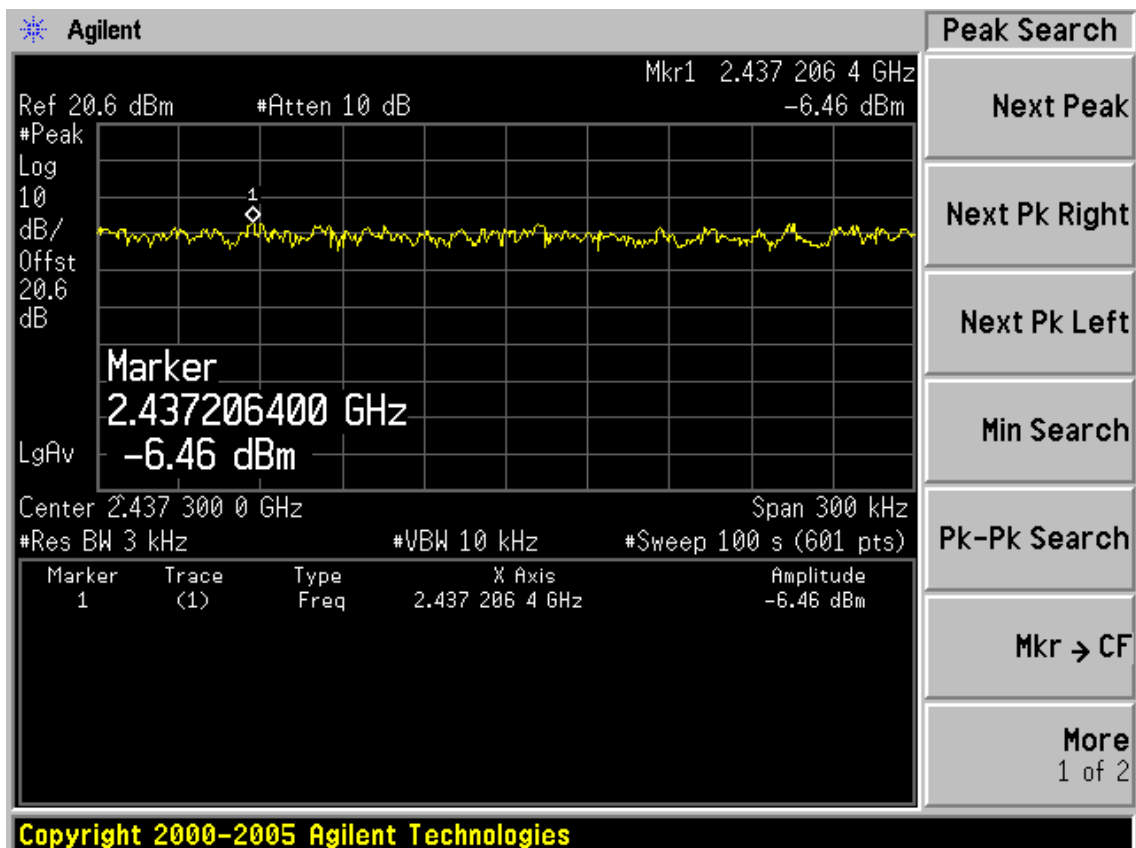
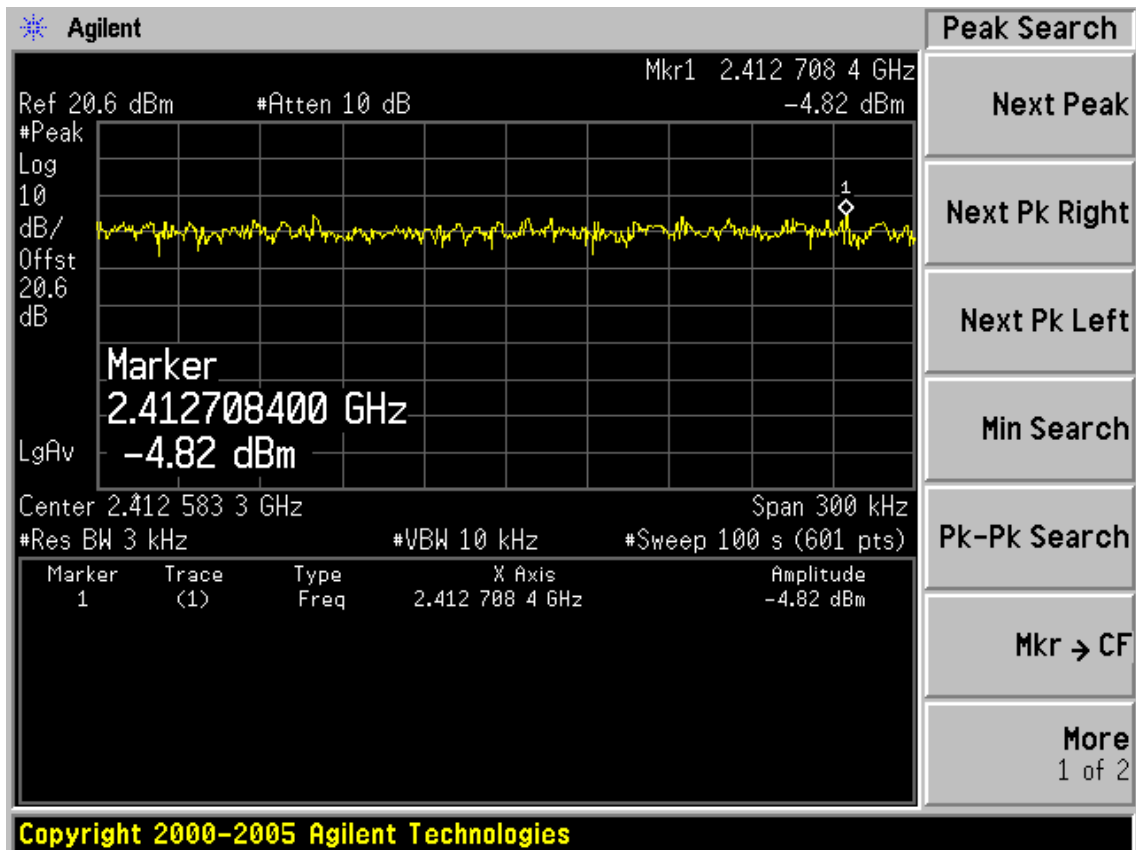
Test Mode: IEEE 802.11g TX

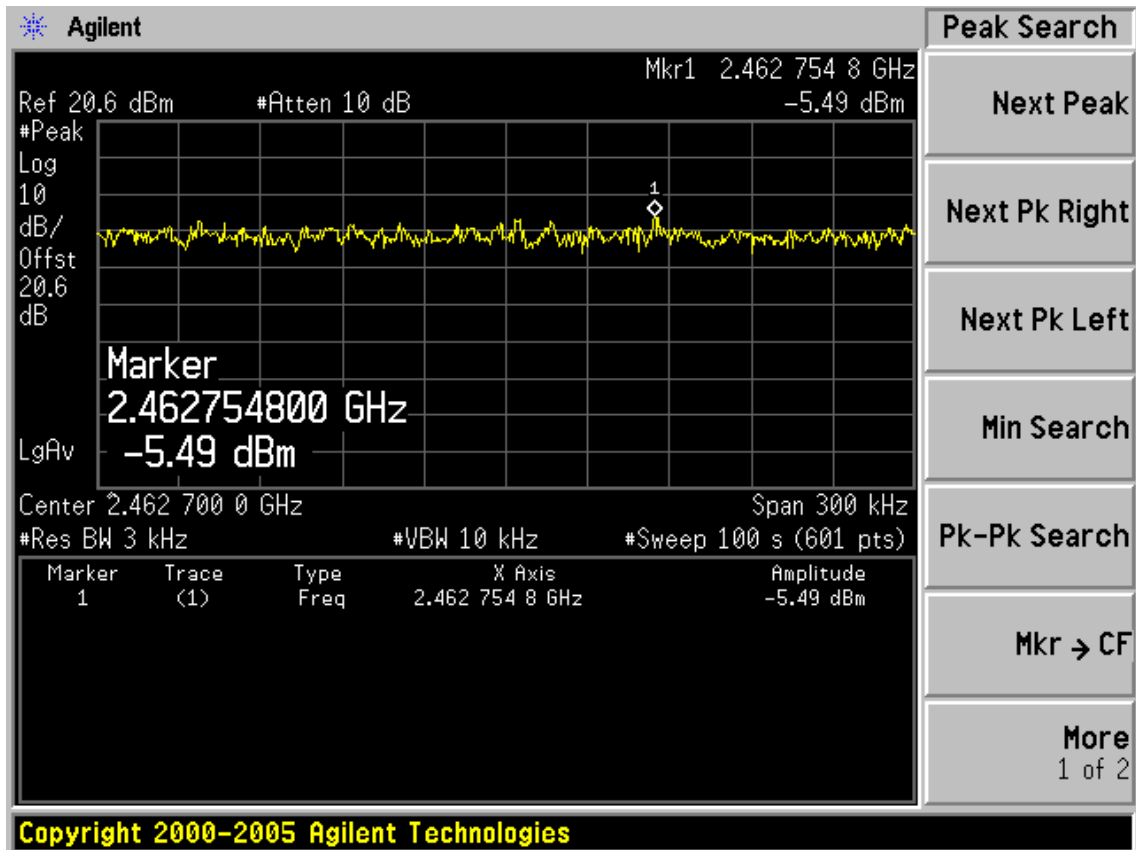




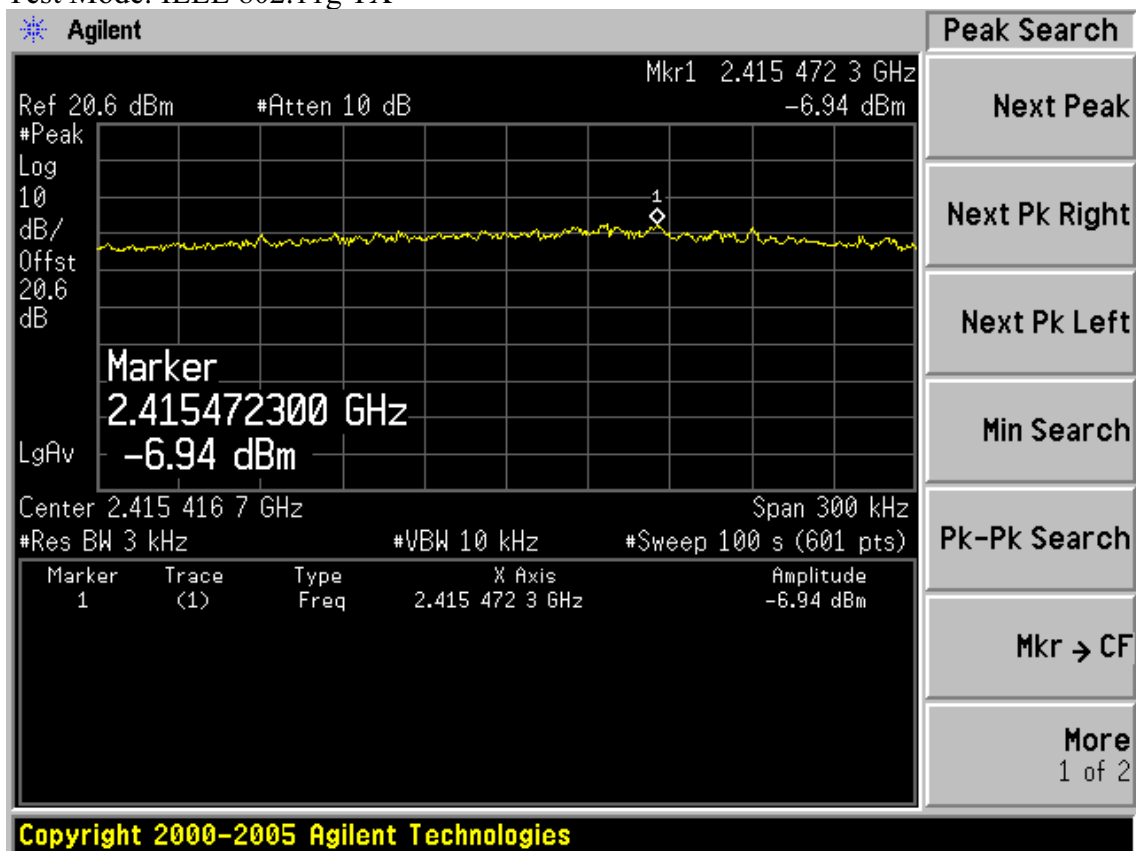
Vertical

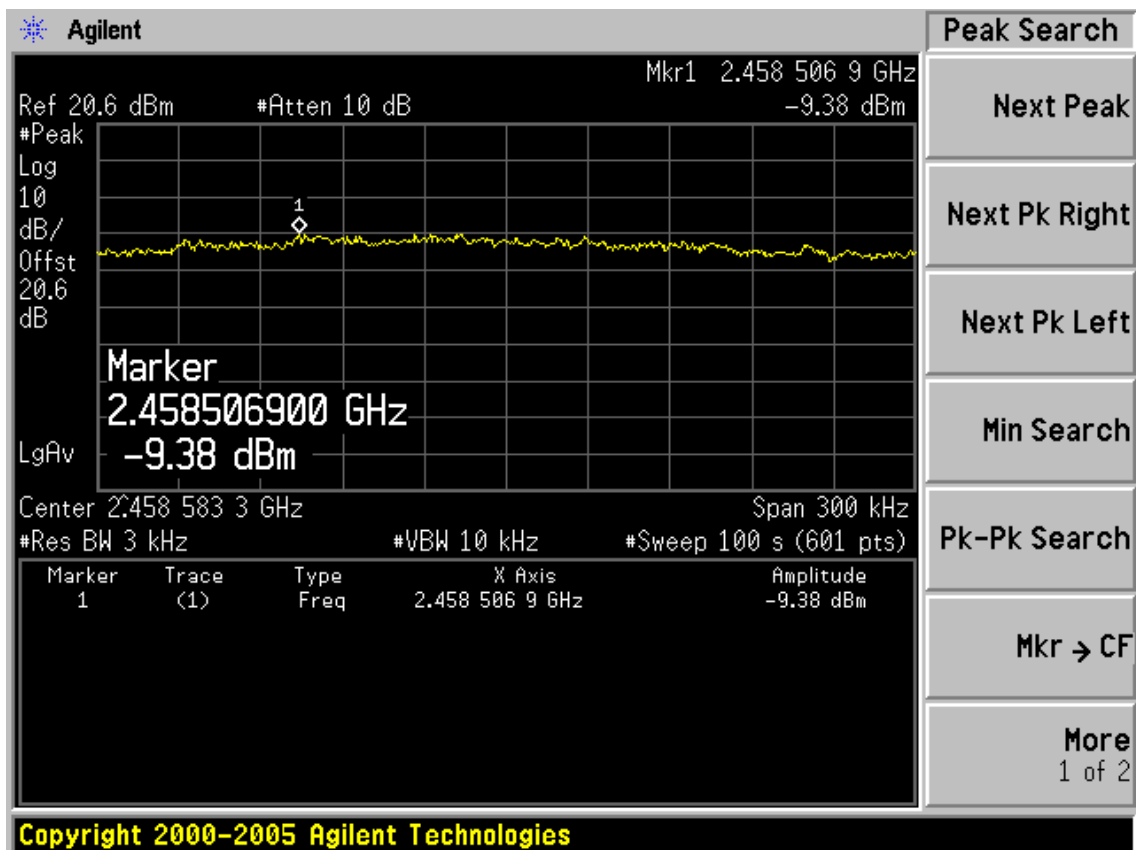
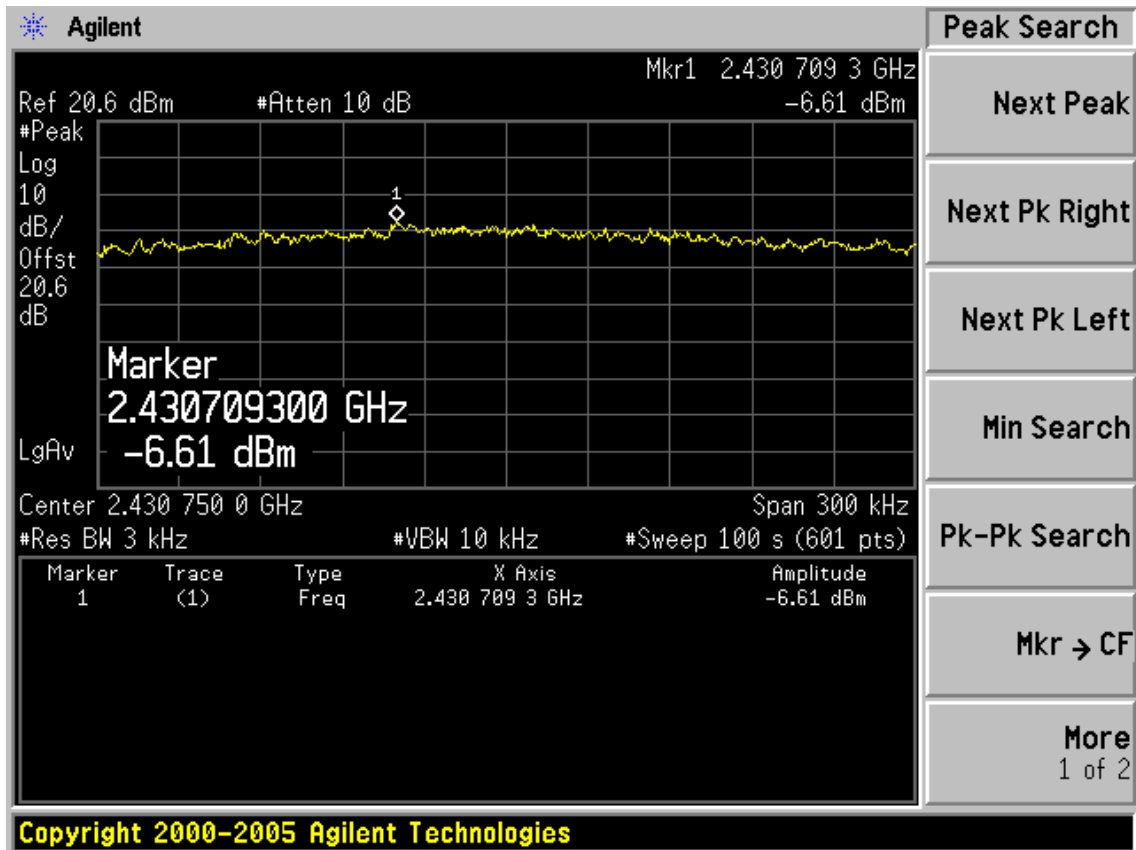
Test Mode: IEEE 802.11b TX





Test Mode: IEEE 802.11g TX





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 transmit antennas used for this product are external dipole antenna with SMA-B connector and internal integrated patch antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the external antenna is 9dBi, and the maximum peak gain of internal antenna is 12dBi.

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

| Antenna Type | Mode | CH | Frequency (MHz) | PK Output power (dBm) | Output power (mW) | antenna Gain (dBi) | antenna Gain (linear) | MPE |
|--------------|------|----|-----------------|-----------------------|-------------------|--------------------|-----------------------|--------|
| Vertical | 11b | 1 | 2412 | 25.30 | 338.84 | 12 | 15.85 | 0.4751 |
| | | 6 | 2437 | 25.40 | 346.74 | 12 | 15.85 | 0.4861 |
| | | 11 | 2462 | 23.80 | 239.88 | 12 | 15.85 | 0.3363 |
| | 11g | 1 | 2412 | 25.37 | 344.35 | 12 | 15.85 | 0.4828 |
| | | 6 | 2437 | 26.25 | 421.70 | 12 | 15.85 | 0.5912 |
| | | 11 | 2462 | 24.02 | 252.35 | 12 | 15.85 | 0.3538 |
| Horizontal | 11b | 1 | 2412 | 25.45 | 350.75 | 12 | 15.85 | 0.4918 |
| | | 6 | 2437 | 24.72 | 296.48 | 12 | 15.85 | 0.4157 |
| | | 11 | 2462 | 24.38 | 274.16 | 12 | 15.85 | 0.3844 |
| | 11g | 1 | 2412 | 25.72 | 373.25 | 12 | 15.85 | 0.5233 |
| | | 6 | 2437 | 25.90 | 389.05 | 12 | 15.85 | 0.5455 |
| | | 11 | 2462 | 24.32 | 270.40 | 12 | 15.85 | 0.3791 |
| External | 11b | 1 | 2412 | 24.27 | 267.30 | 9 | 7.94 | 0.1878 |
| | | 6 | 2437 | 24.79 | 301.30 | 9 | 7.94 | 0.2117 |
| | | 11 | 2462 | 23.58 | 228.03 | 9 | 7.94 | 0.1602 |
| | 11g | 1 | 2412 | 25.81 | 381.07 | 9 | 7.94 | 0.2678 |
| | | 6 | 2437 | 26.04 | 401.79 | 9 | 7.94 | 0.2823 |
| | | 11 | 2462 | 24.27 | 267.30 | 9 | 7.94 | 0.1878 |

Note: The estimation distance is 30cm

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]