# APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Shenzhen Leader Digital-tech Weitong Co., Ltd.

MID
Model No.: GN3X

FCC ID: ZDYGN3X

| | | |
|---|---|---|
| Prepared for | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |
| Address | : | 4 Floor, Dongjiang Environmental Building, Central Nanshan District, Shenzhen, China |
| Prepared by | : | ACCURATE TECHNOLOGY CO., LTD |
| Address | : | F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China |
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| | | |
|---|---|---|
| Report Number | : | ATE20120034 |
| Date of Test | : | January 9-February 2, 2012 |
| Date of Report | : | February 9, 2012 |

# TABLE OF CONTENTS

Description Page

# Test Report Certification

Applicant **:** Shenzhen Leader Digital-tech Weitong Co., Ltd.

Manufacturer **:** Shenzhen Leader Digital-tech Weitong Co., Ltd.

EUT Description **:** MID

(A) MODEL NO.: GN3X

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 7.4V (Li-polymer battery);
AC 120V/60Hz (Adaptor input)

Measurement Procedure Used:

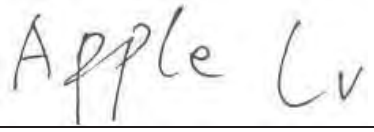
**FCC Rules and Regulations Part 15 Subpart C Section 15.247**
**ANSI C63.4: 2003**

The device described above is tested by ACCURATE TECHNOLOGY 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 Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. 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 ACCURATE TECHNOLOGY CO. LTD.

Date of Test : January 9-February 2, 2012

Prepared by :



(Engineer)

Approved & Authorized Signer :

(Manager)

# 1. GENERAL INFORMATION

## 1.1.Description of Device (EUT)

| | | |
|---|---|---|
| EUT | : | MID |
| Model Number | : | GN3X<br>(Note: X=1-9<br>These samples are same except for the appearance is difference. So we prepare the GN32 for FCC test.) |
| Frequency Band (Wifi) | : | 2412-2462MHz |
| Frequency Band (Bluetooth) | : | 2402MHz-2480MHz |
| Number of Channels | : | 11 |
| Antenna Gain | : | 0dBi |
| Power Supply | : | DC 7.4V (Li-polymer battery);<br>AC 120V/60Hz (Adaptor input) |
| Adapter | : | Model number: FLD181-120150-11B25B<br>Input: AC 100-240V; 50/60Hz 0.5A<br>Output: DC 12V; 1.5A<br>Output line: Non-shielded, Non-detachable, 1.4m |
| Data Rate | : | IEEE 802.11b: 11Mbps<br>IEEE 802.11g: 54Mbps<br>IEEE 802.11n: 150Mbps |
| Applicant | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |
| Address | : | 4 Floor, Dongjiang Environmental Building, Central Nanshan District, Shenzhen, China |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |
| Address | : | 4 Floor, Dongjiang Environmental Building, Central Nanshan District, Shenzhen, China |
| Date of sample received | : | January 9, 2012 |
| Date of Test | : | January 9-February 2, 2012 |

## 1.2.Description of Test Facility

| | | |
|---|---|---|
| EMC Lab | : | Accredited by TUV Rheinland Shenzhen<br><br>Listed by FCC<br>The Registration Number is 752051<br><br>Listed by Industry Canada<br>The Registration Number is 5077A-2<br><br>Accredited by China National Accreditation Committee for Laboratories<br>The Certificate Registration Number is L3193 |
| Name of Firm | : | ACCURATE TECHNOLOGY CO. LTD |
| Site Location | : | F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China |

## 1.3.Measurement Uncertainty

| | | |
|---|---|---|
| Conducted Emission Expanded Uncertainty | = | 2.23dB, k=2 |
| Radiated emission expanded uncertainty (9kHz-30MHz) | = | 3.08dB, k=2 |
| Radiated emission expanded uncertainty (30MHz-1000MHz) | = | 4.42dB, k=2 |
| Radiated emission expanded uncertainty (Above 1GHz) | = | 4.06dB, k=2 |

# 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

| Kind of equipment | Manufacturer | Type | S/N | Calibrated until |
|---|---|---|---|---|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 7, 2013 |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 7, 2013 |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 7, 2013 |
| Pre-Amplifier | Rohde&Schwarz | CBLU1183540-01 | 3791 | Jan. 7, 2013 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 7, 2013 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 7, 2013 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 7, 2013 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | Jan. 7, 2013 |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 7, 2013 |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 7, 2013 |

# 3. OPERATION OF EUT DURING TESTING

## 3.1.Operating Mode

The mode is used: **802.11b Transmitting mode**
Low Channel: 2412MHz
Middle Channel: 2437MHz
High Channel: 2462MHz

**802.11g Transmitting mode**
Low Channel: 2412MHz
Middle Channel: 2437MHz
High Channel: 2462MHz

**802.11n Transmitting mode**
Low Channel: 2412MHz
Middle Channel: 2437MHz
High Channel: 2462MHz

## 3.2.Configuration and peripherals

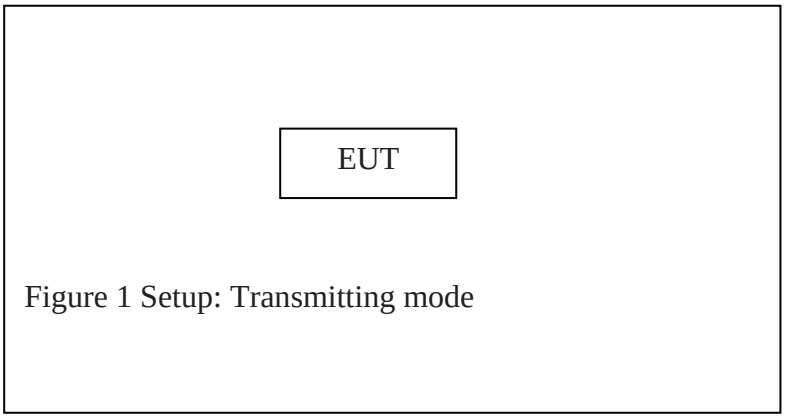


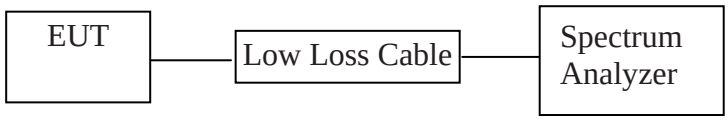

Figure 1 Setup: Transmitting mode

# 4. TEST PROCEDURES AND RESULTS

| FCC Rules | Description of Test | Result |
|---|---|---|
| Section 15.247(a)(2) | 6dB Bandwidth Test | Compliant |
| Section 15.247(e) | Power Spectral Density Test | Compliant |
| Section 15.247(b)(3) | Maximum Peak Output Power Test | Compliant |
| Section 15.247(d) | Band Edge Compliance Test | Compliant |
| Section 15.247(d)<br>Section 15.209 | Radiated Spurious Emission Test | Compliant |
| Section 15.247(d) | Conducted Spurious Emission Test | Compliant |
| Section 15.207 | AC Power Line Conducted Emission Test | Compliant |
| Section 15.203 | Antenna Requirement | Compliant |

# 5. 6DB BANDWIDTH MEASUREMENT

## 5.1.Block Diagram of Test Setup




(EUT: MID)

## 5.2.The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

## 5.3.EUT Configuration on Measurement

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

5.3.1.MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 5.5.Test Procedure

5.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

5.5.3.The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

## 5.6.Test Result

**PASS.**

| | | | |
|---|---|---|---|
| Date of Test: | January 14, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX | Test Engineer: | Pei |

The test was performed with 802.11b

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| Low | 2412 | 11.41 | > 0.5MHz |
| Middle | 2437 | 11.20 | > 0.5MHz |
| High | 2462 | 11.09 | > 0.5MHz |

The test was performed with 802.11g

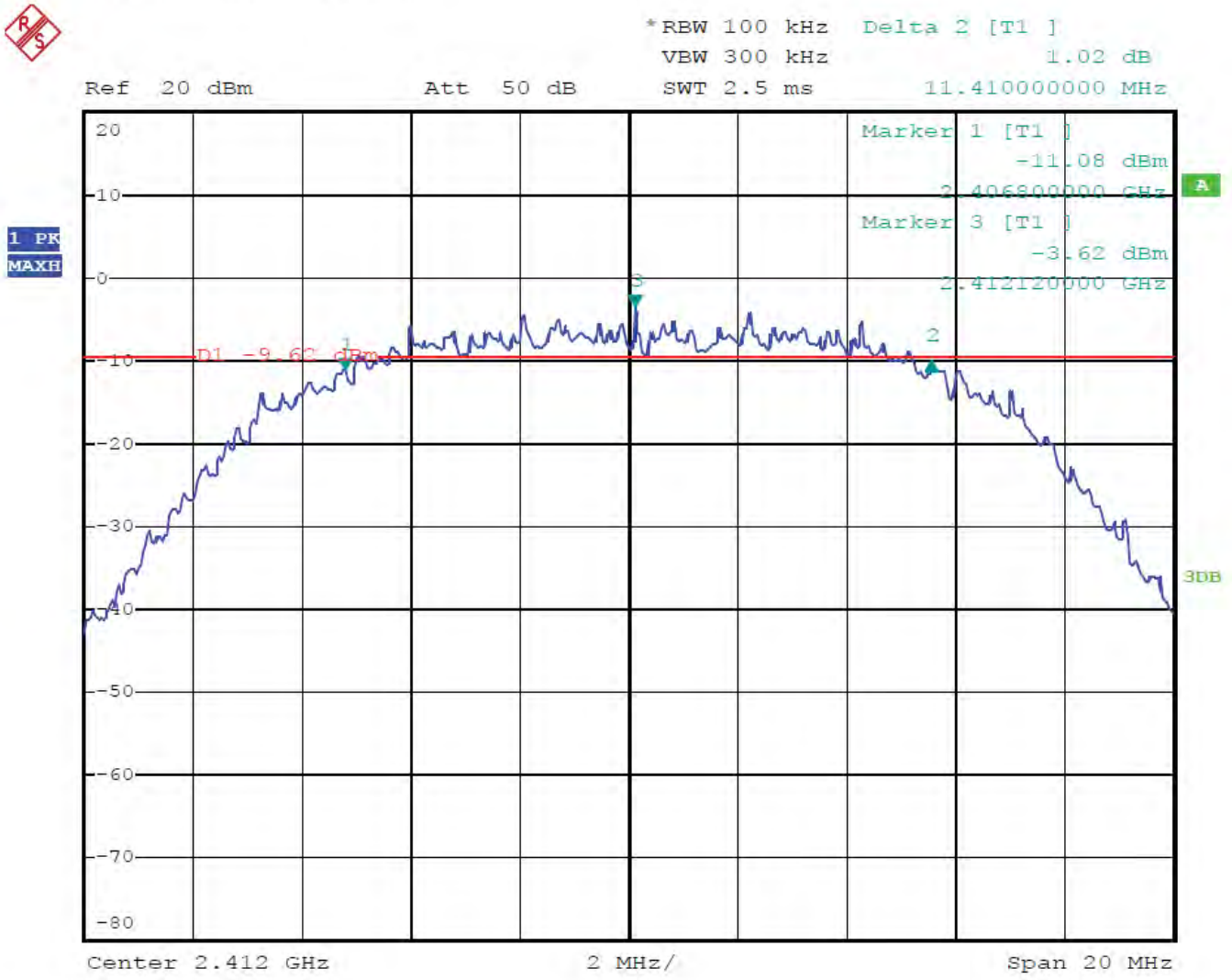
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| Low | 2412 | 16.00 | > 0.5MHz |
| Middle | 2437 | 16.62 | > 0.5MHz |
| High | 2462 | 16.61 | > 0.5MHz |

| The test was performed with 802.11n | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
| Low | 2412 | 17.62 | > 0.5MHz |
| Middle | 2437 | 17.00 | > 0.5MHz |
| High | 2462 | 17.94 | > 0.5MHz |

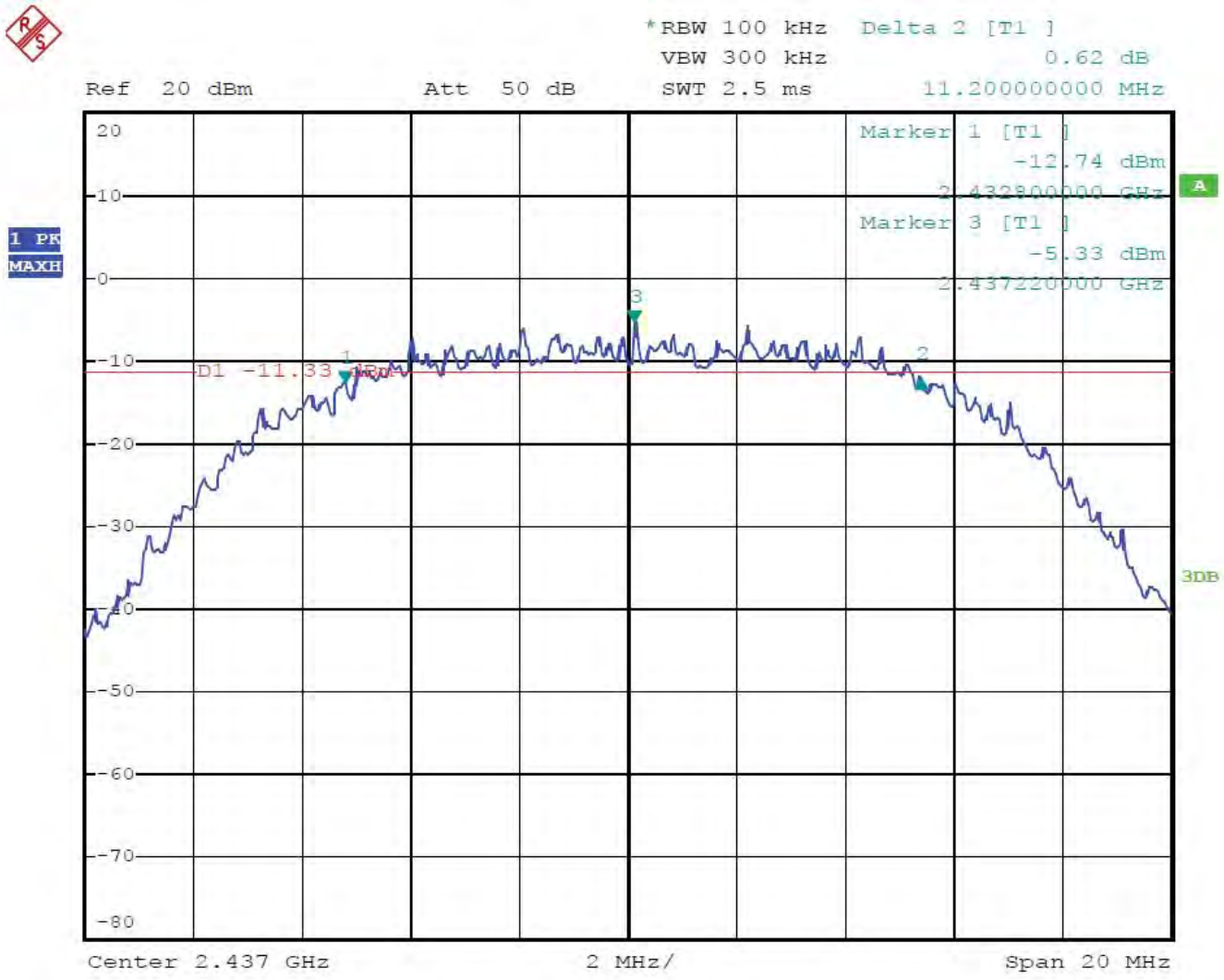
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz

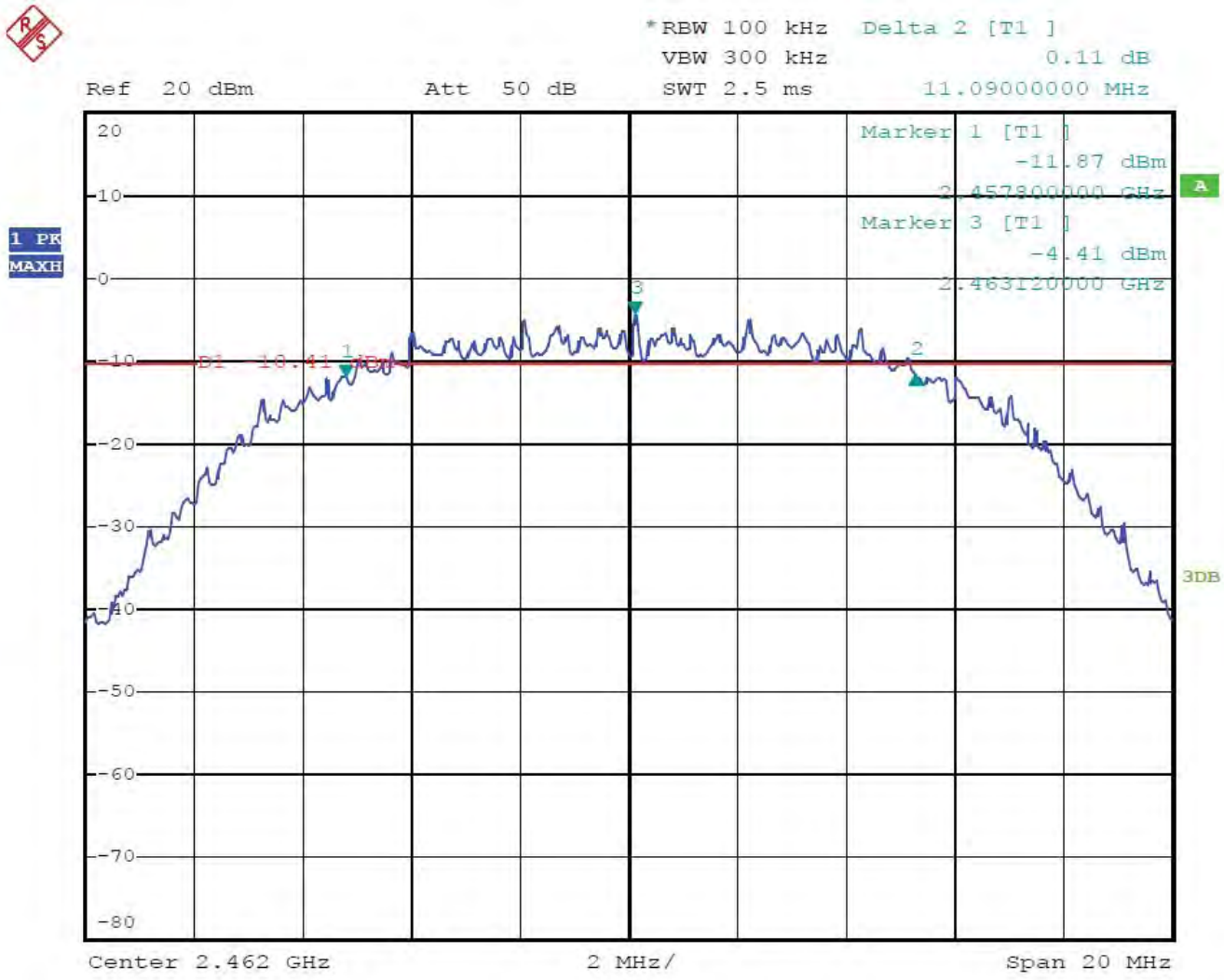
802.11b Channel Low 2412MHz



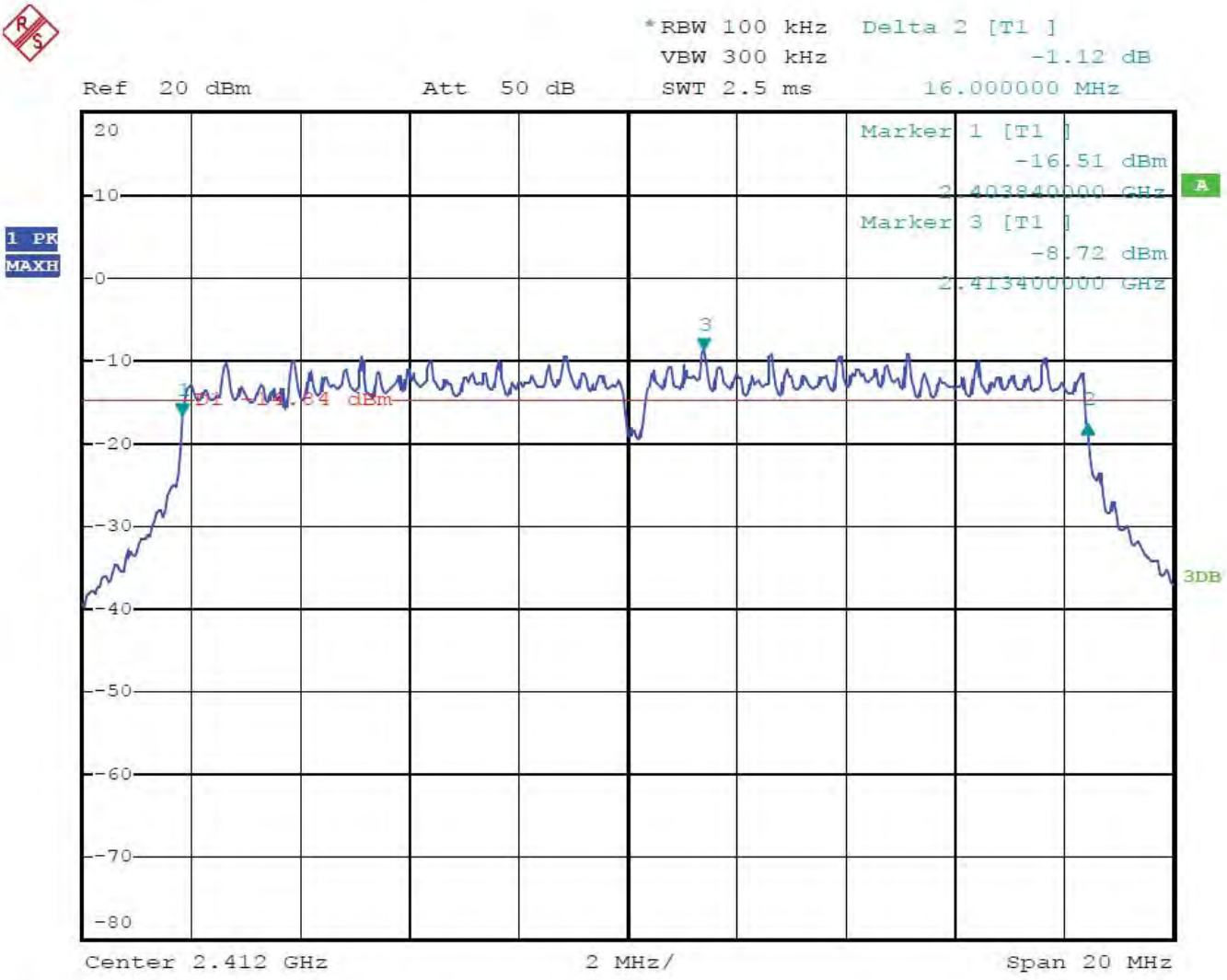
802.11b Channel Middle 2437MHz



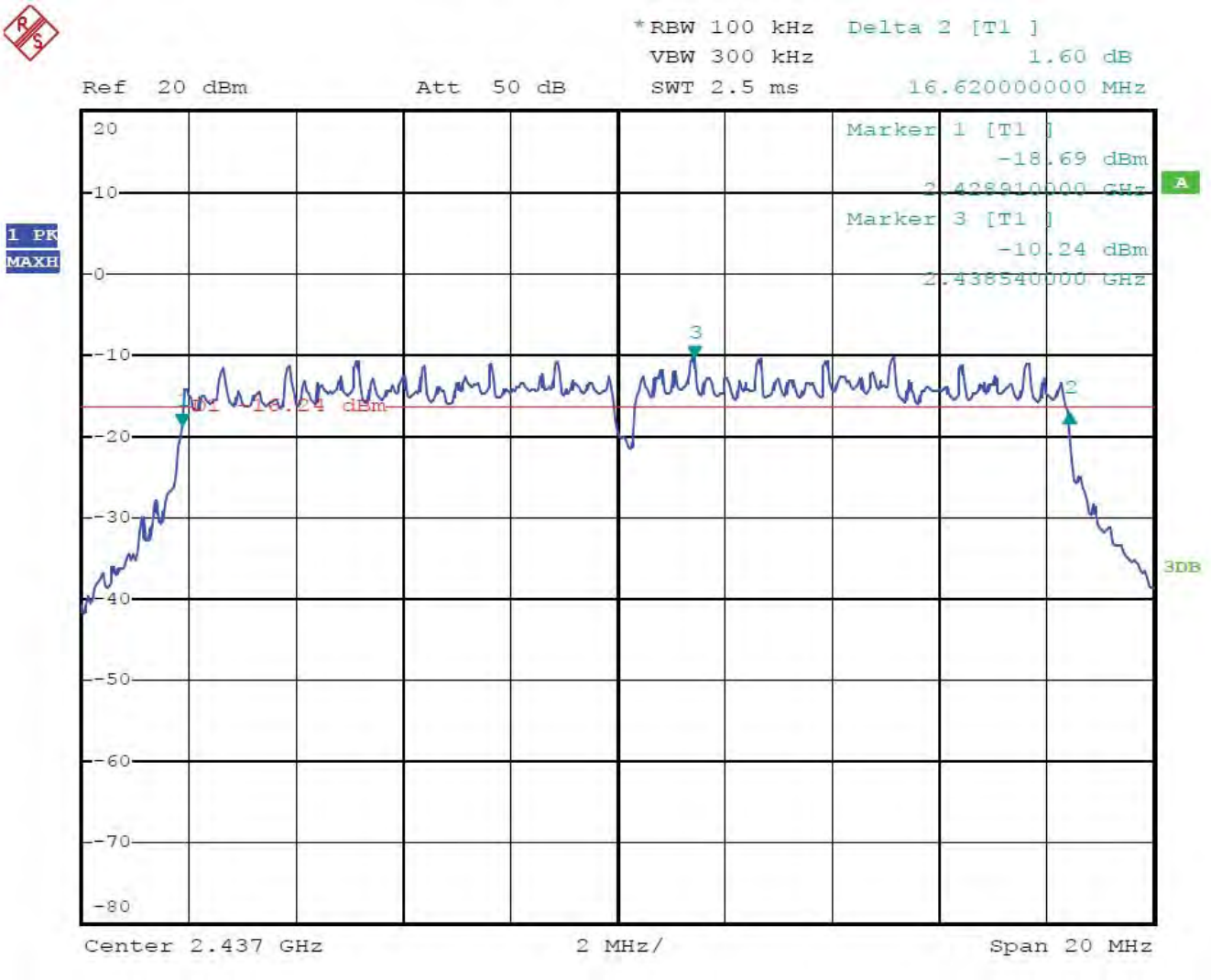
802.11b Channel High 2462MHz



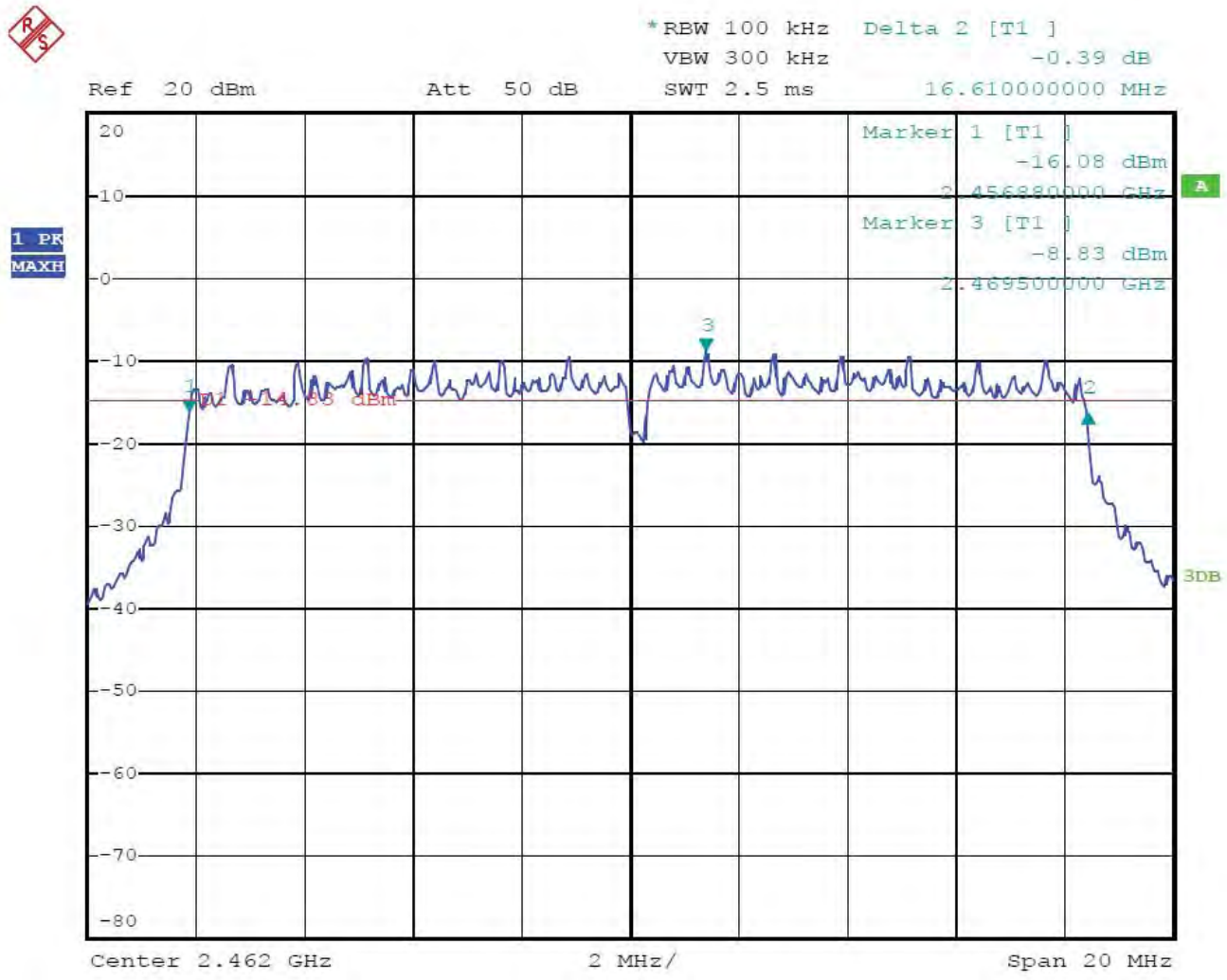
802.11g Channel Low 2412MHz



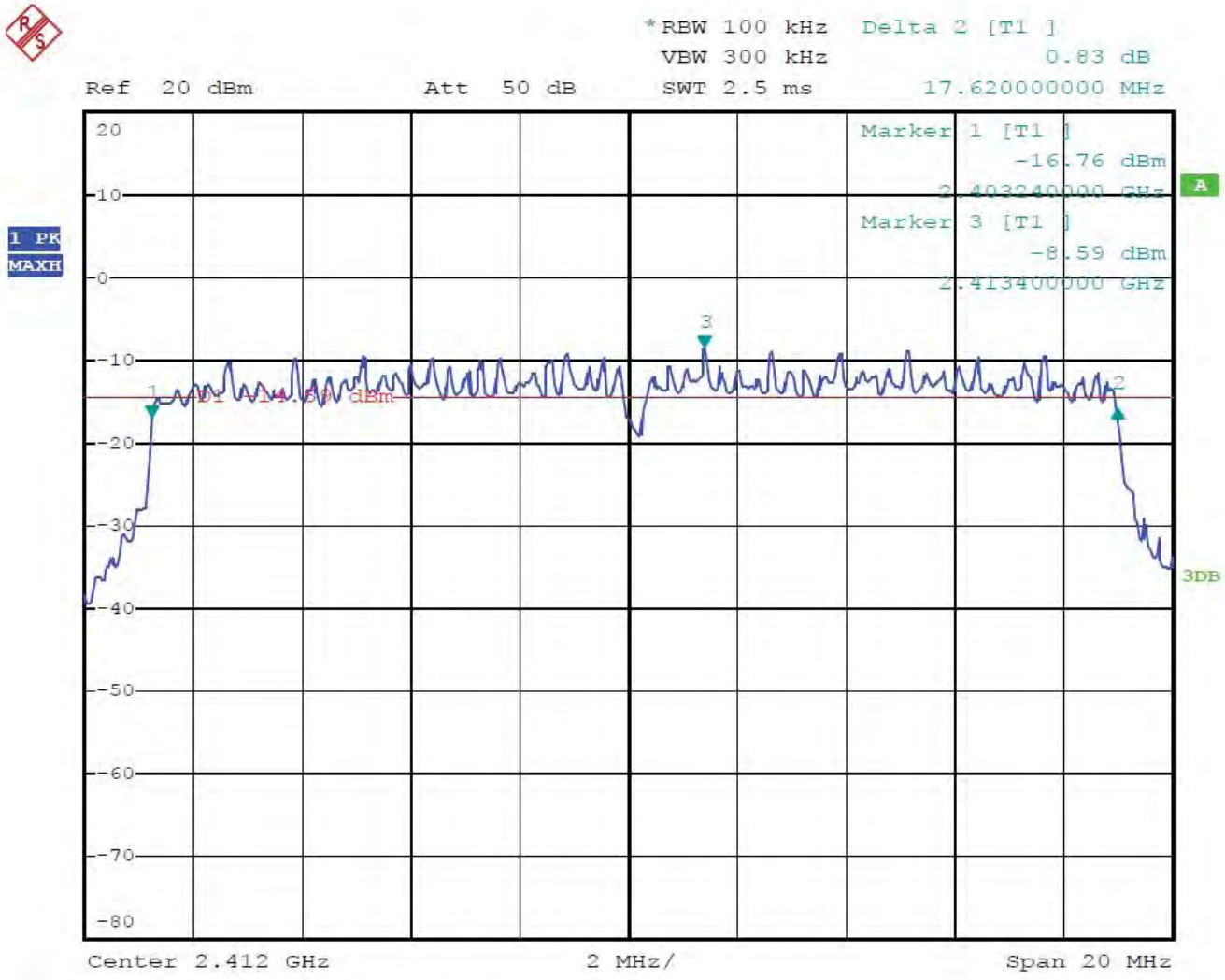
802.11g Channel Middle 2437MHz



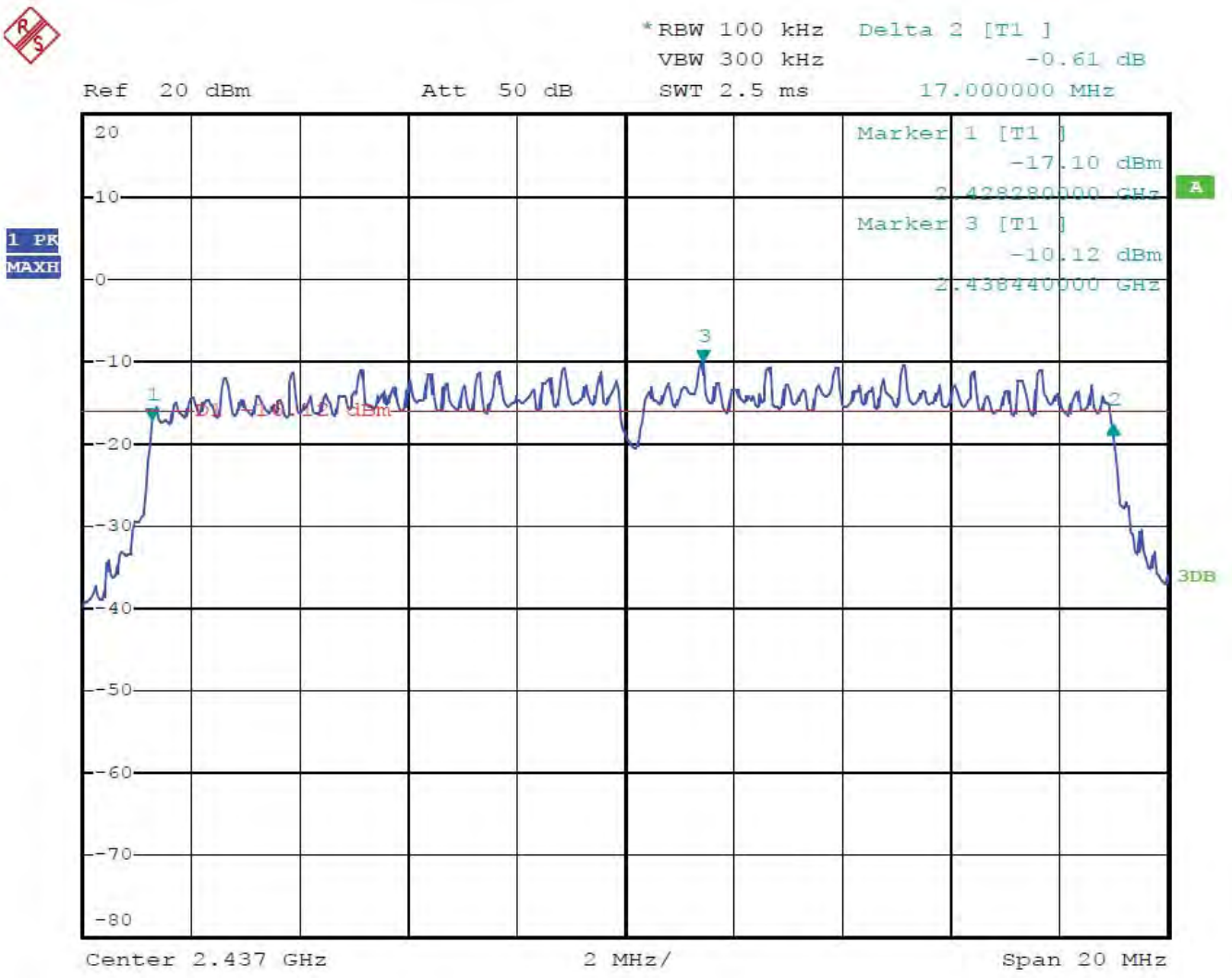
802.11g Channel High 2462MHz



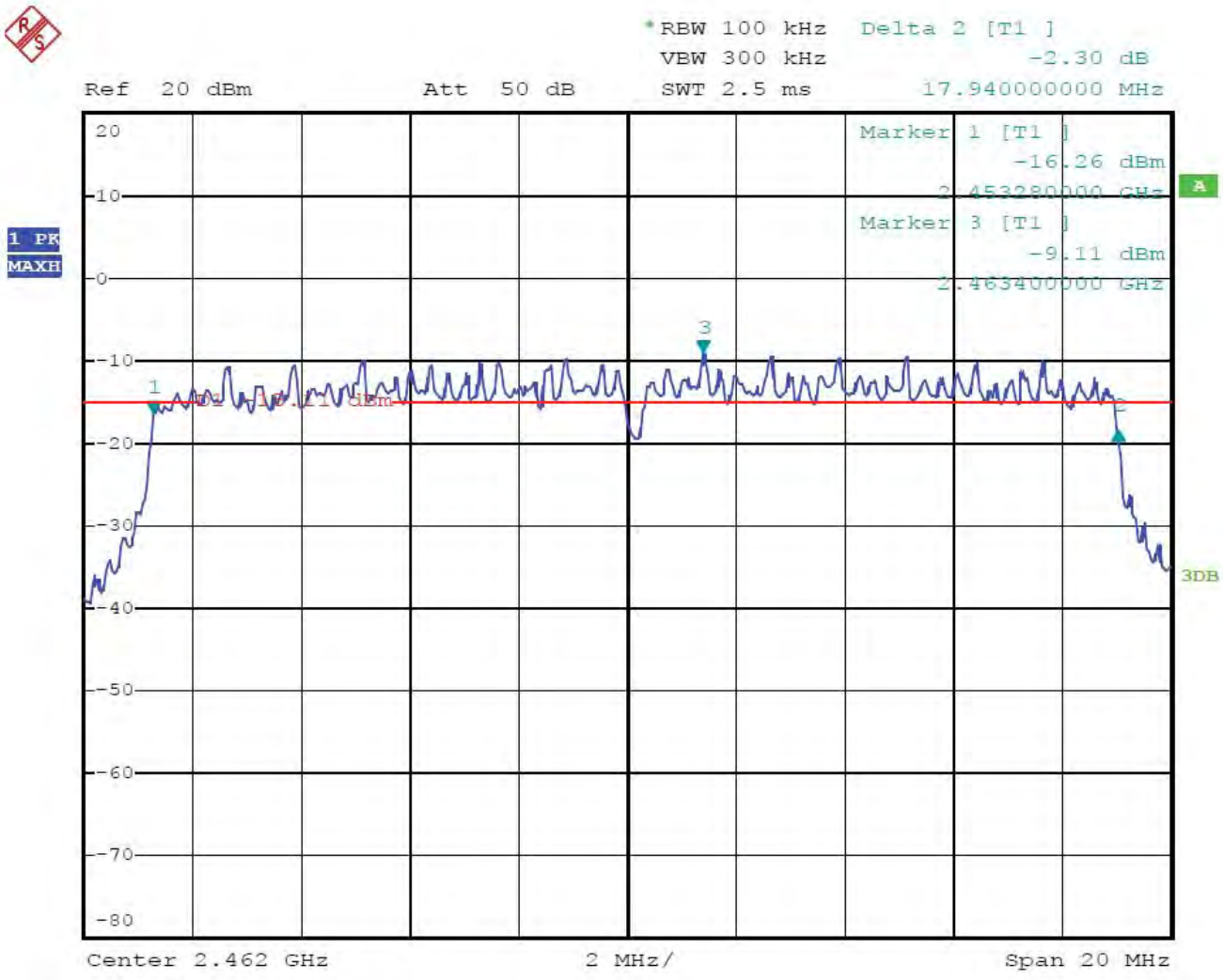
802.11n Channel Low 2412MHz



802.11n Channel Low 2437MHz

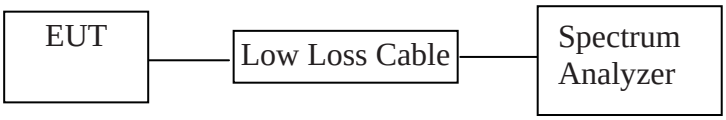


802.11n Channel Low 2462MHz



# 6. MAXIMUM PEAK OUTPUT POWER

## 6.1.Block Diagram of Test Setup




(EUT: MID)

## 6.2.The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

## 6.3.EUT Configuration on Measurement

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

6.3.1.MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 6.5.Test Procedure

6.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2.Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3.Measurement the maximum peak output power.

## 6.6.Test Result

**PASS.**

| | | | |
|---|---|---|---|
| Date of Test: | January 14, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX | Test Engineer: | Pei |

The test was performed with 802.11b

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Peak Output Power (mW) | Limits dBm / W |
|---|---|---|---|---|
| Low | 2412 | 9.42 | 8.75 | 30 dBm / 1 W |
| Middle | 2437 | 9.26 | 8.43 | 30 dBm / 1 W |
| High | 2462 | 10.13 | 10.30 | 30 dBm / 1 W |

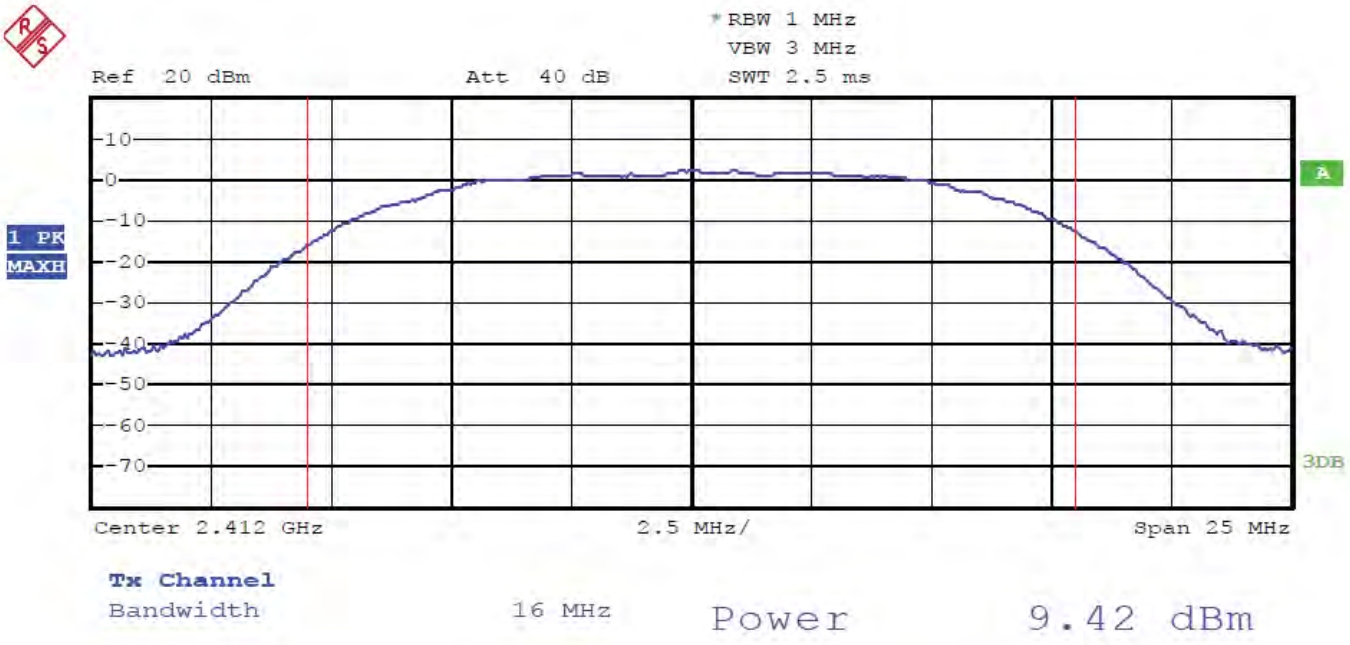
The test was performed with 802.11g

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Peak Output Power (mW) | Limits dBm / W |
|---|---|---|---|---|
| Low | 2412 | 10.18 | 10.42 | 30 dBm / 1 W |
| Middle | 2437 | 9.85 | 9.66 | 30 dBm / 1 W |
| High | 2462 | 10.45 | 11.09 | 30 dBm / 1 W |

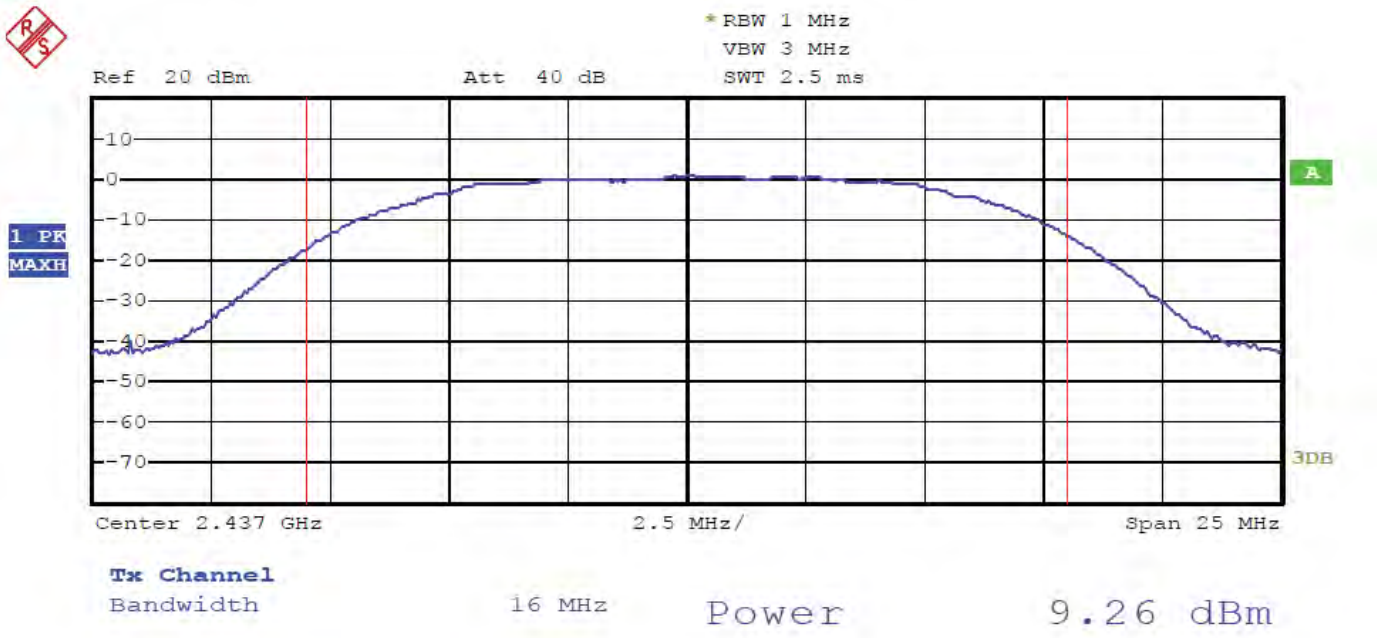
| The test was performed with 802.11n | | | | |
|---|---|---|---|---|
| Channel | Frequency (MHz) | Peak Output Power (dBm) | Peak Output Power (mW) | Limits dBm / W |
| Low | 2412 | 9.56 | 9.03 | 30 dBm / 1 W |
| Middle | 2437 | 8.85 | 7.67 | 30 dBm / 1 W |
| High | 2462 | 9.45 | 8.81 | 30 dBm / 1 W |

The spectrum analyzer plots are attached as below.

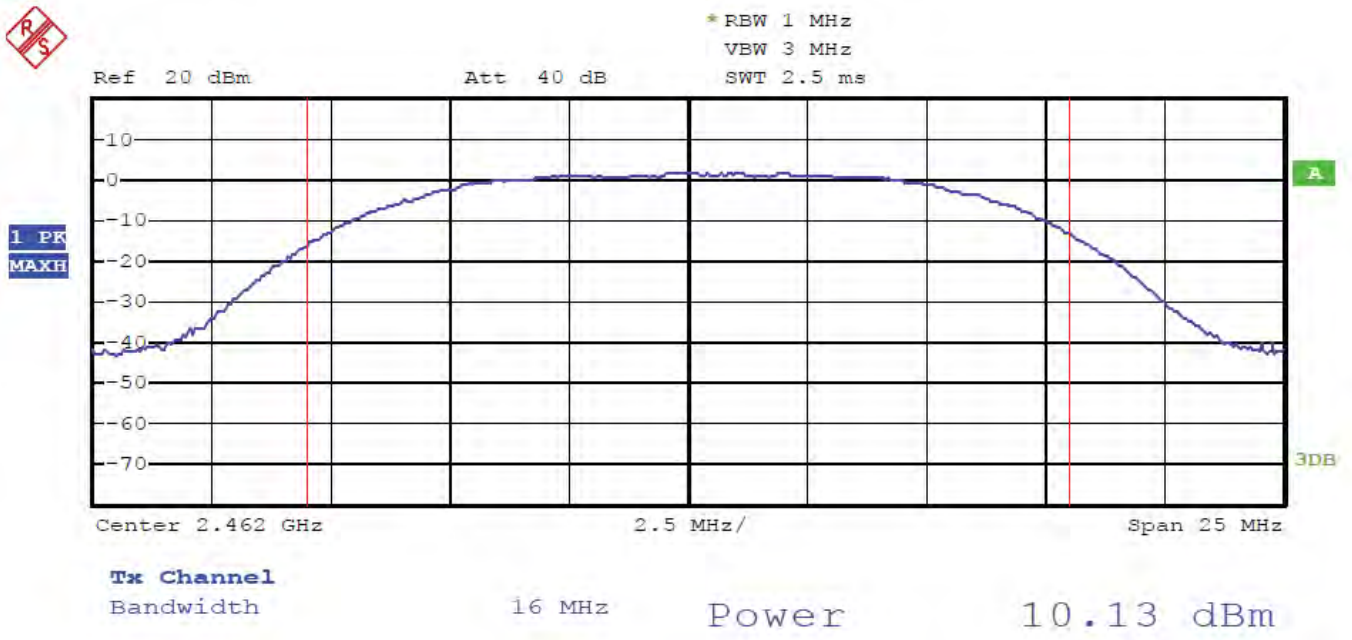
802.11b Channel Low 2412MHz



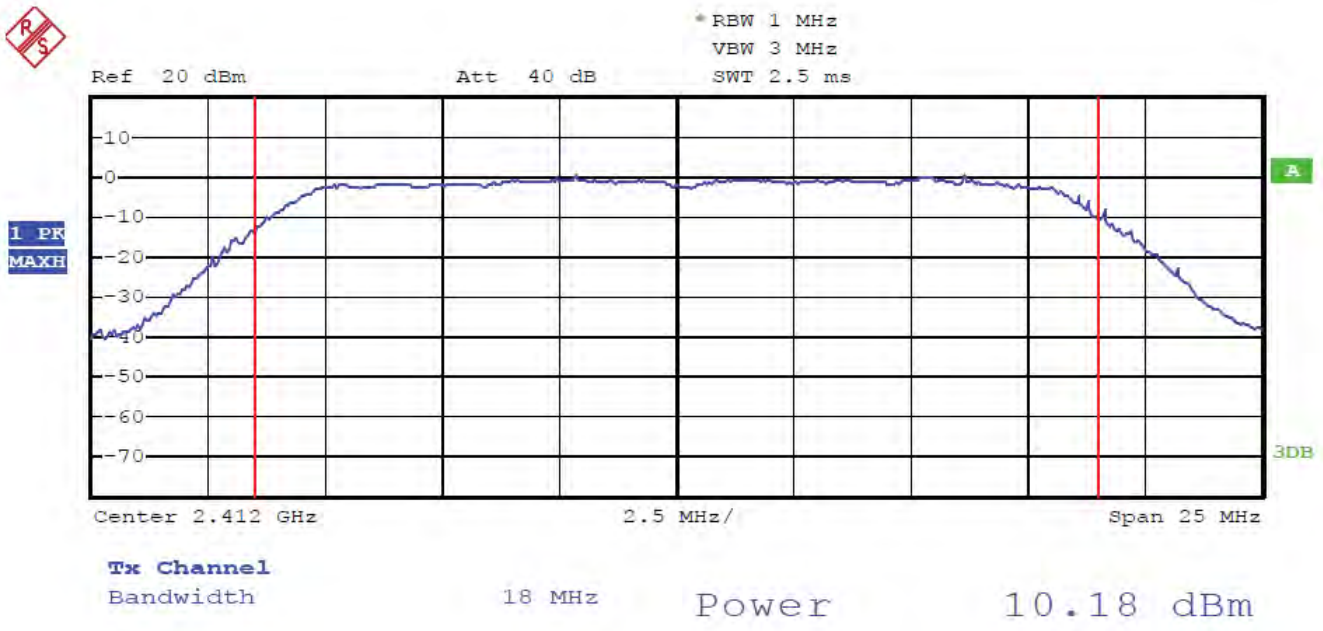
802.11b Channel Middle 2437MHz



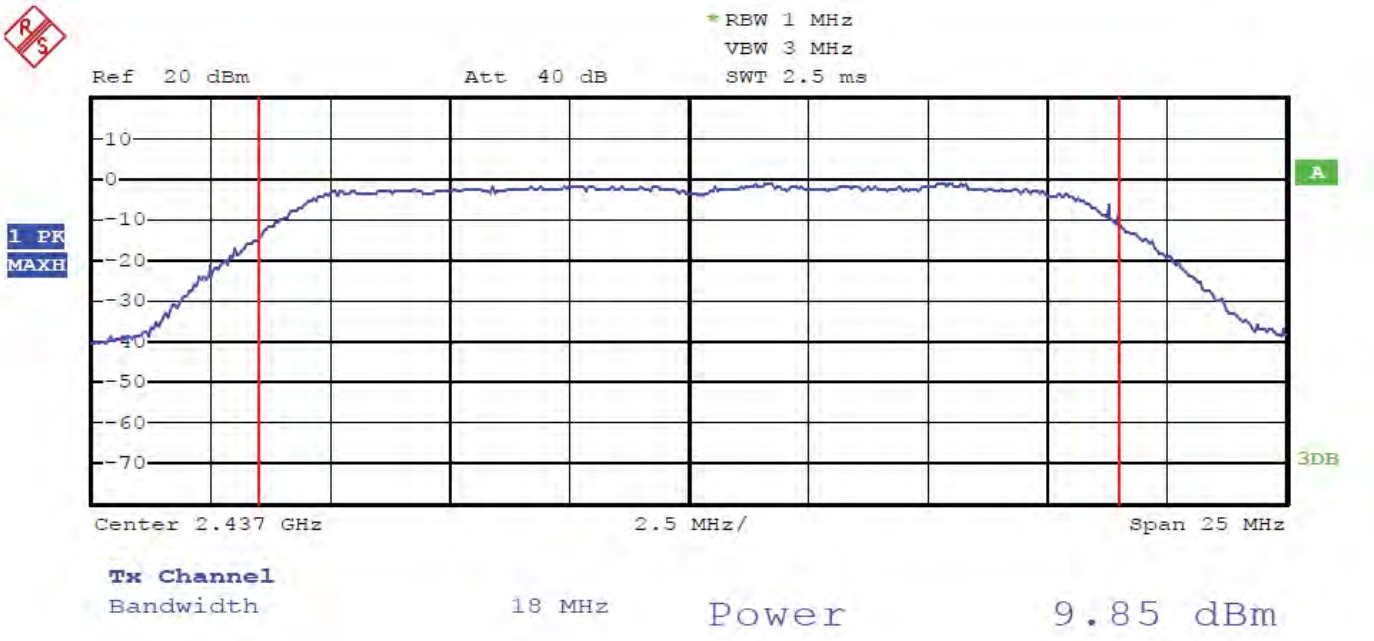
802.11b Channel High 2462MHz



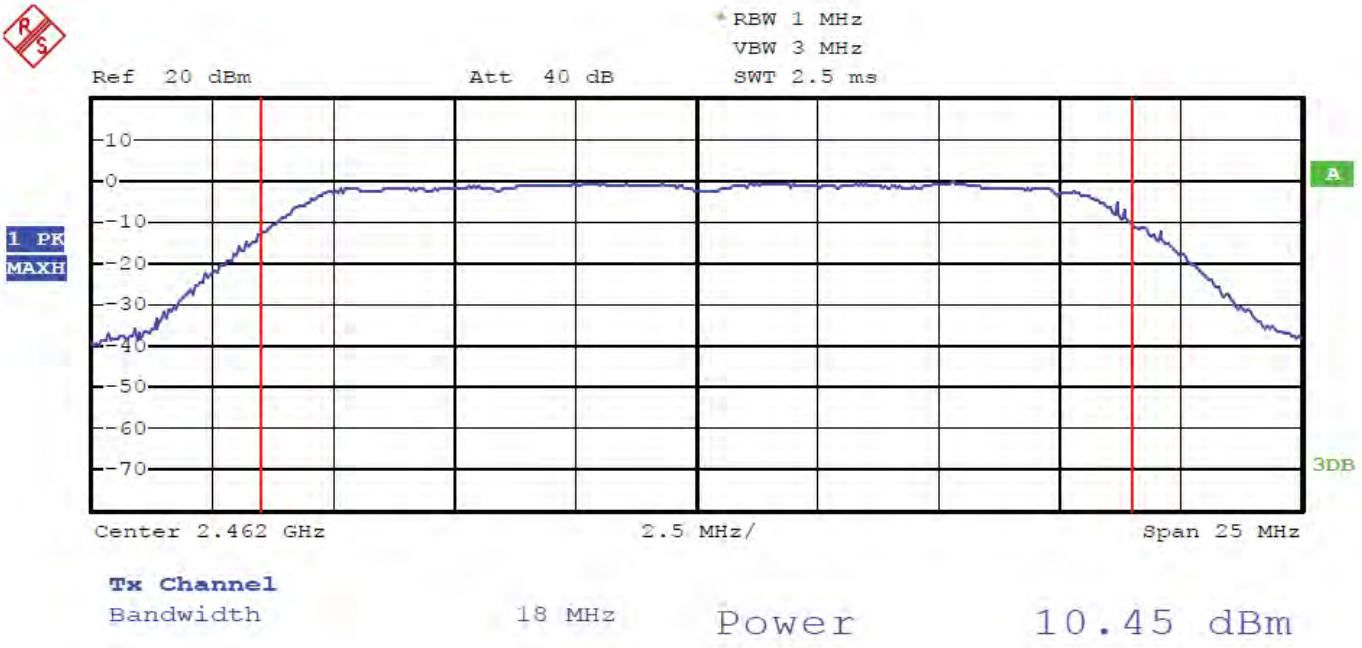
802.11g Channel Low 2412MHz



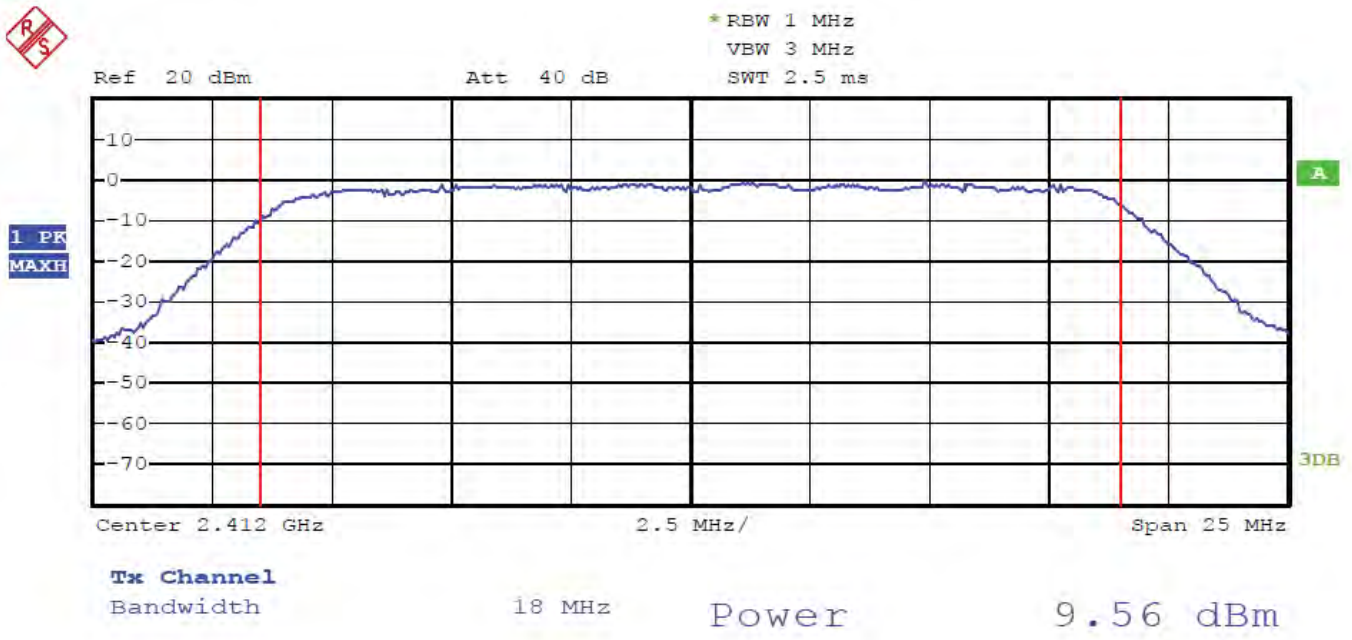
802.11g Channel Middle 2437MHz



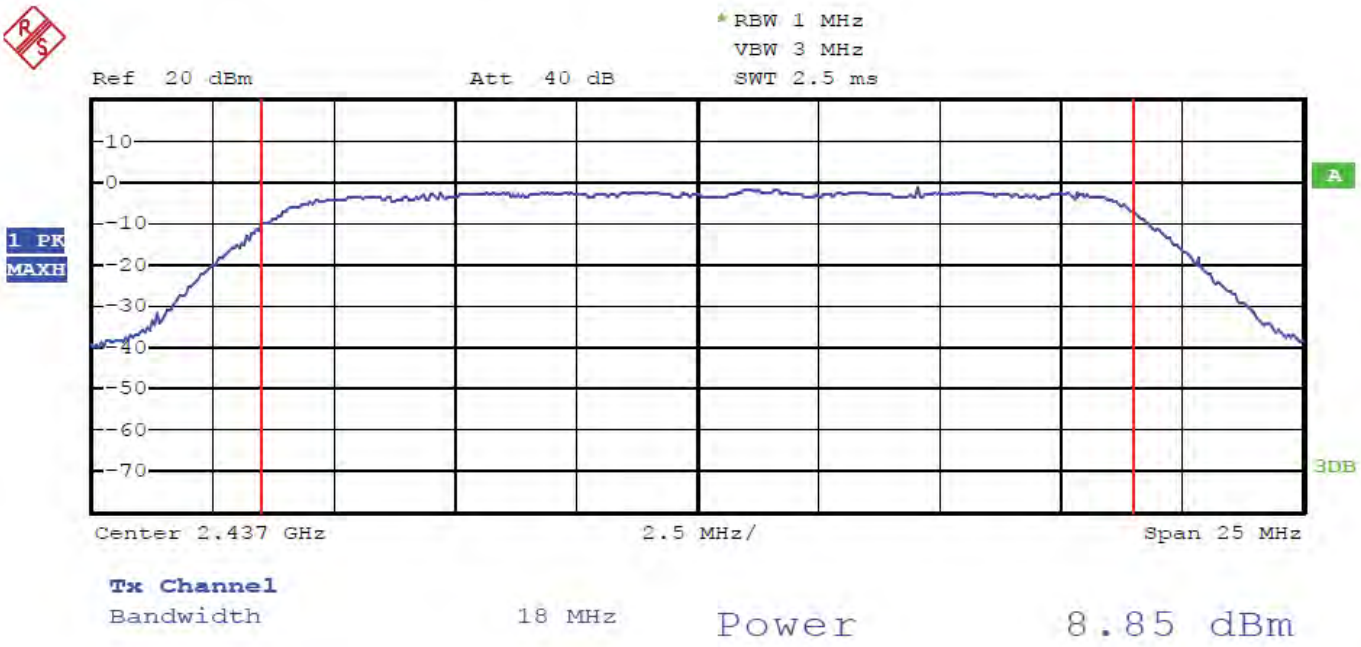
802.11g Channel High 2462MHz



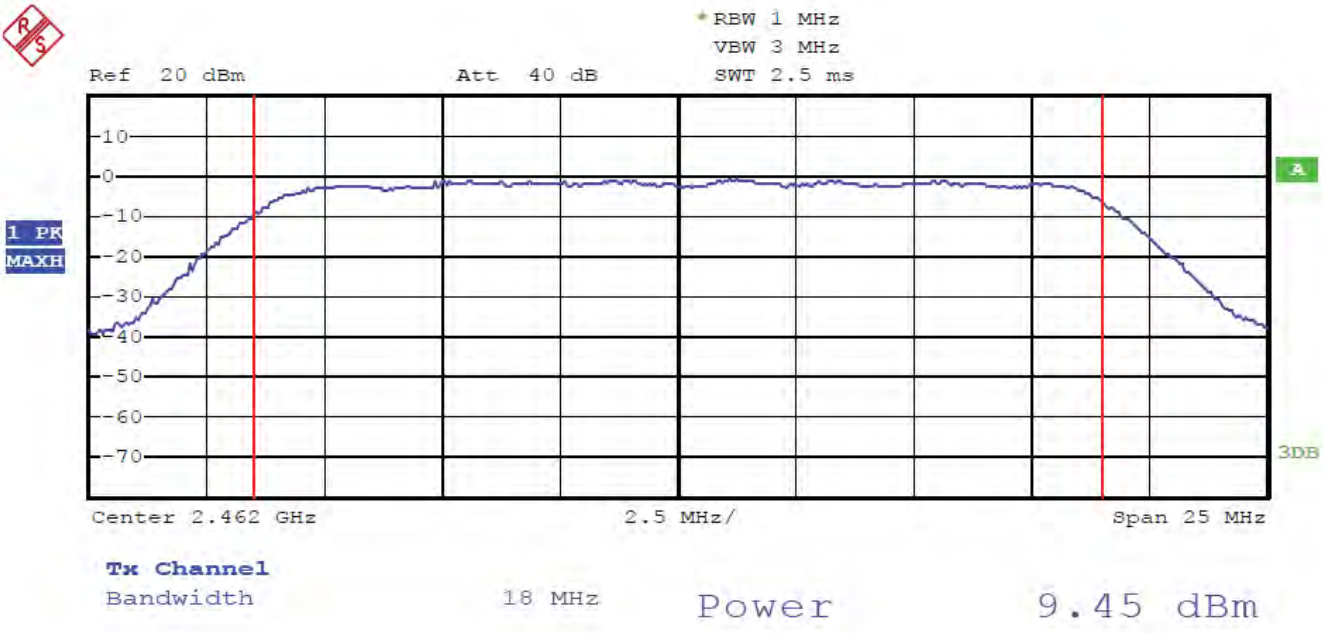
802.11n Channel High 2412MHz



802.11n Channel High 2437MHz

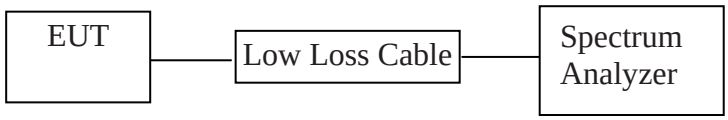


802.11n Channel High 2462MHz



# 7. POWER SPECTRAL DENSITY MEASUREMENT

## 7.1.Block Diagram of Test Setup




(EUT: MID)

## 7.2.The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

## 7.3.EUT Configuration on Measurement

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

### 7.3.1.MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 7.5.Test Procedure

7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2.Set RBW of spectrum analyzer to 3kHz and VBW to 10kHz, sweep time = Span/3kHz.

7.5.3.Measurement the maximum power spectral density.

## 7.6.Test Result

**PASS.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX | Test Engineer: | Pei |

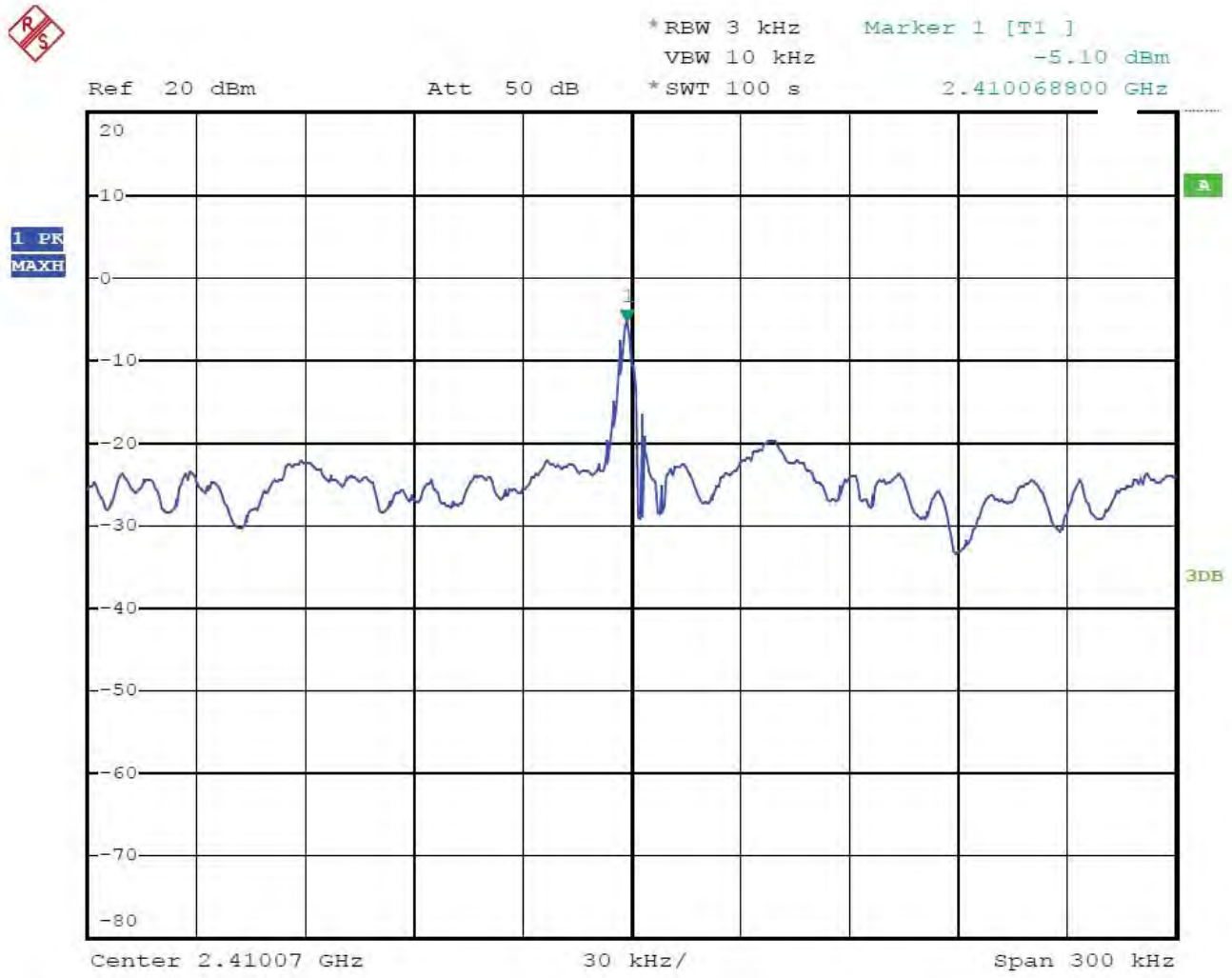
| The test was performed with 802.11b | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | Power Spectral Density (dBm) | Limits (dBm) |
| Low | 2412 | -5.10 | 8 dBm |
| Middle | 2437 | -6.71 | 8 dBm |
| High | 2462 | -5.74 | 8 dBm |

| The test was performed with 802.11g | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | Power Spectral Density (dBm) | Limits (dBm) |
| Low | 2412 | -24.98 | 8 dBm |
| Middle | 2437 | -26.81 | 8 dBm |
| High | 2462 | -24.20 | 8 dBm |

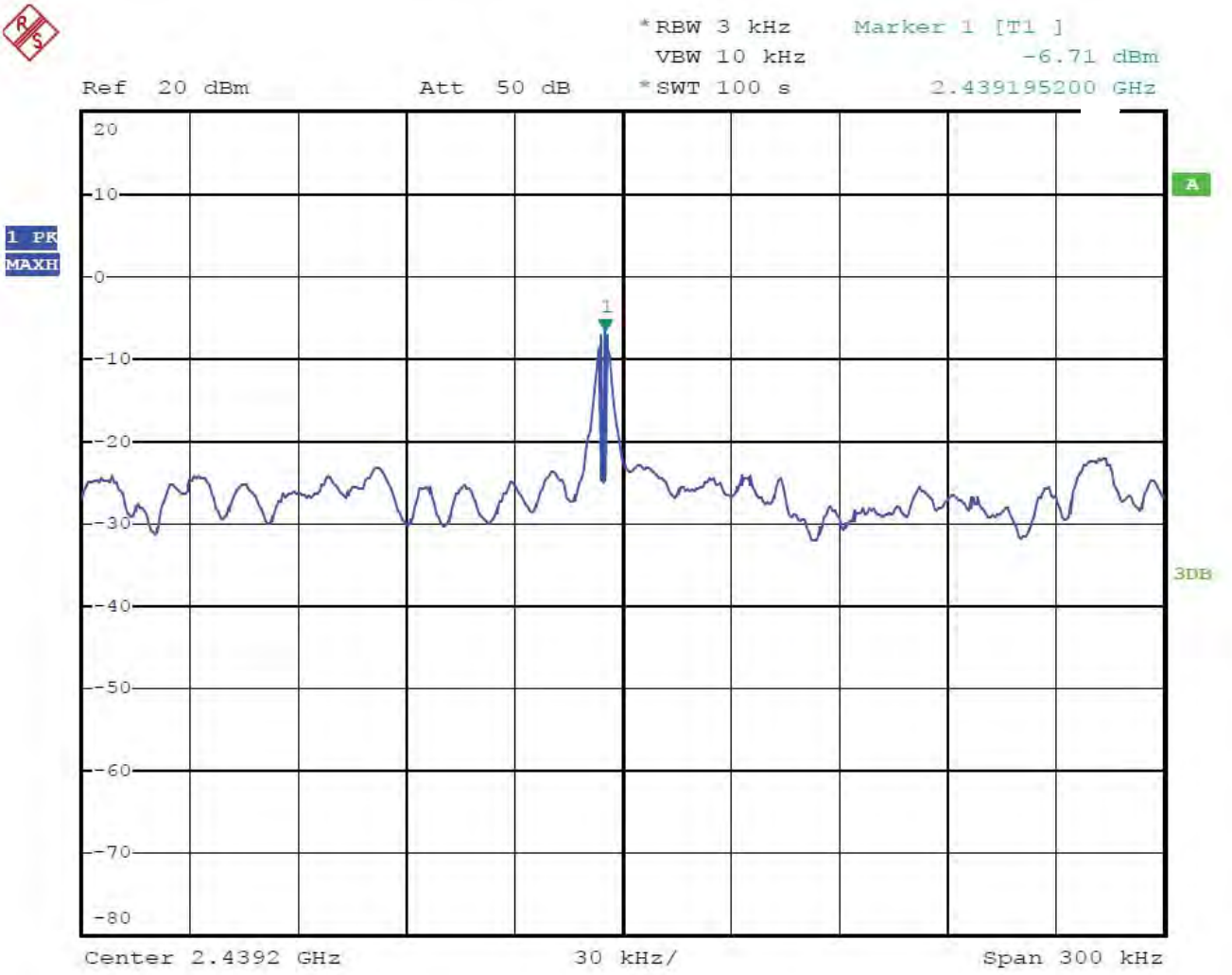
| The test was performed with 802.11n | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | Power Spectral Density (dBm) | Limits (dBm) |
| Low | 2412 | -23.13 | 8 dBm |
| Middle | 2437 | -26.81 | 8 dBm |
| High | 2462 | -25.20 | 8 dBm |

The spectrum analyzer plots are attached as below.

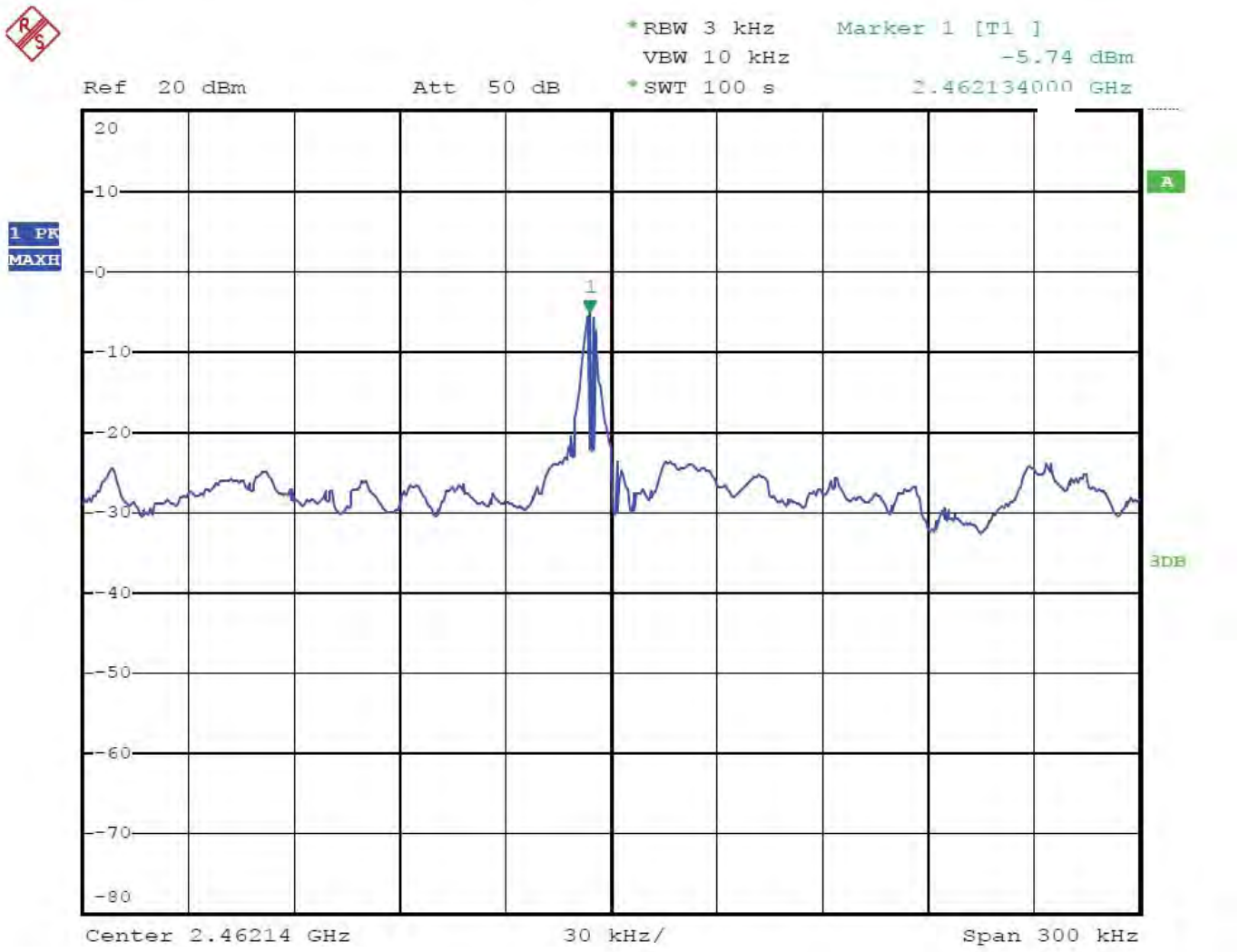
802.11b Channel Low 2412MHz



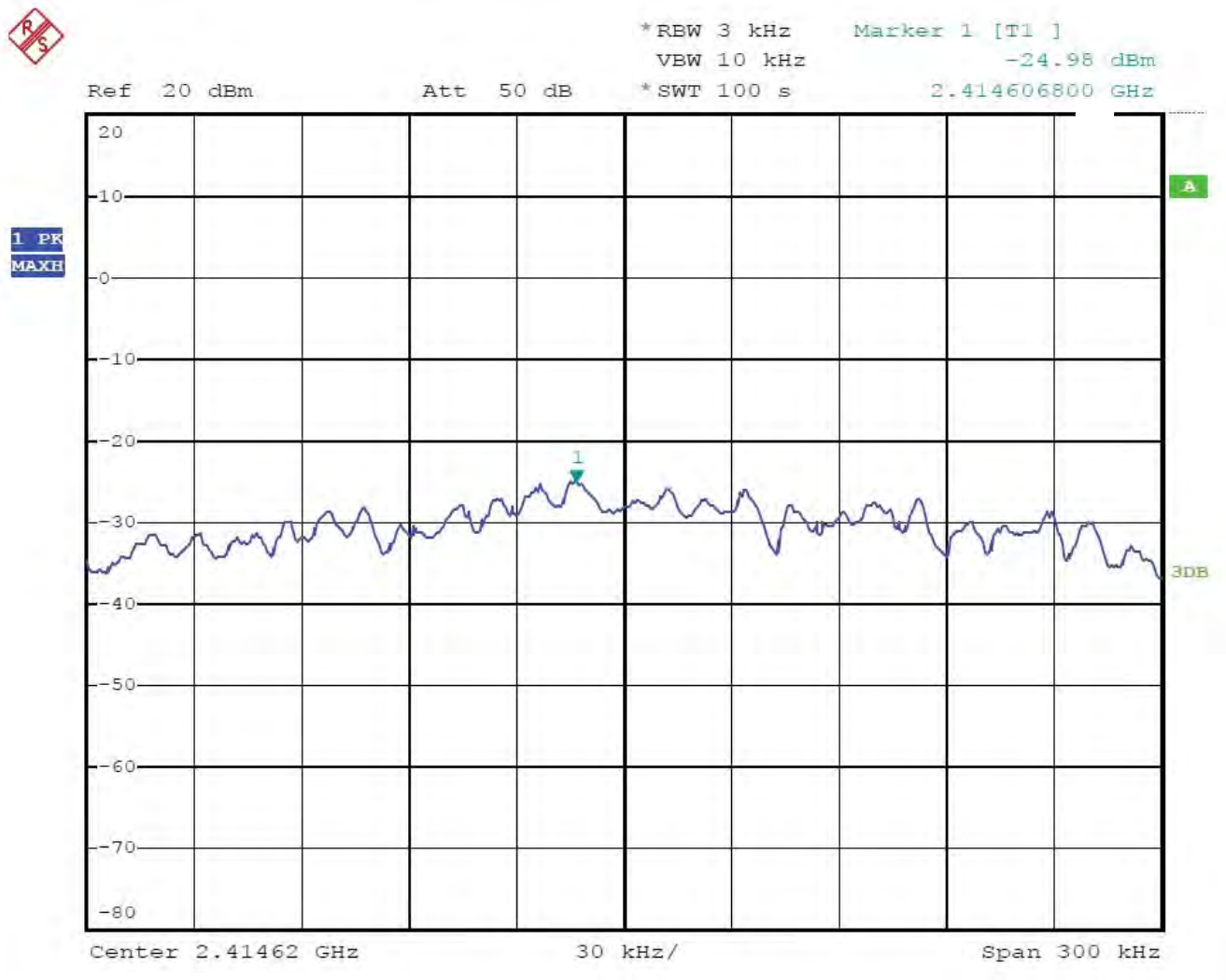
802.11b Channel Middle 2437MHz



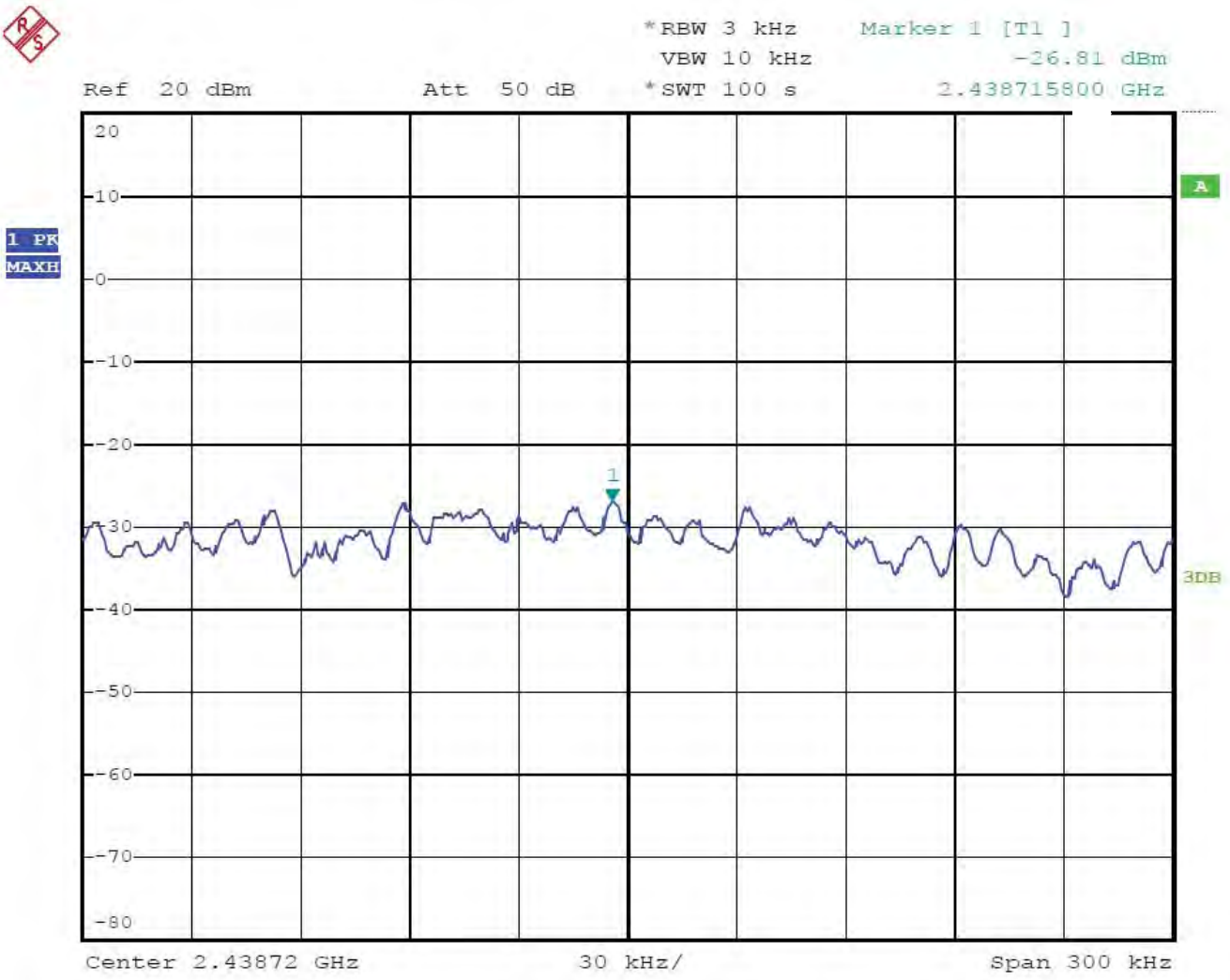
802.11b Channel High 2462MHz



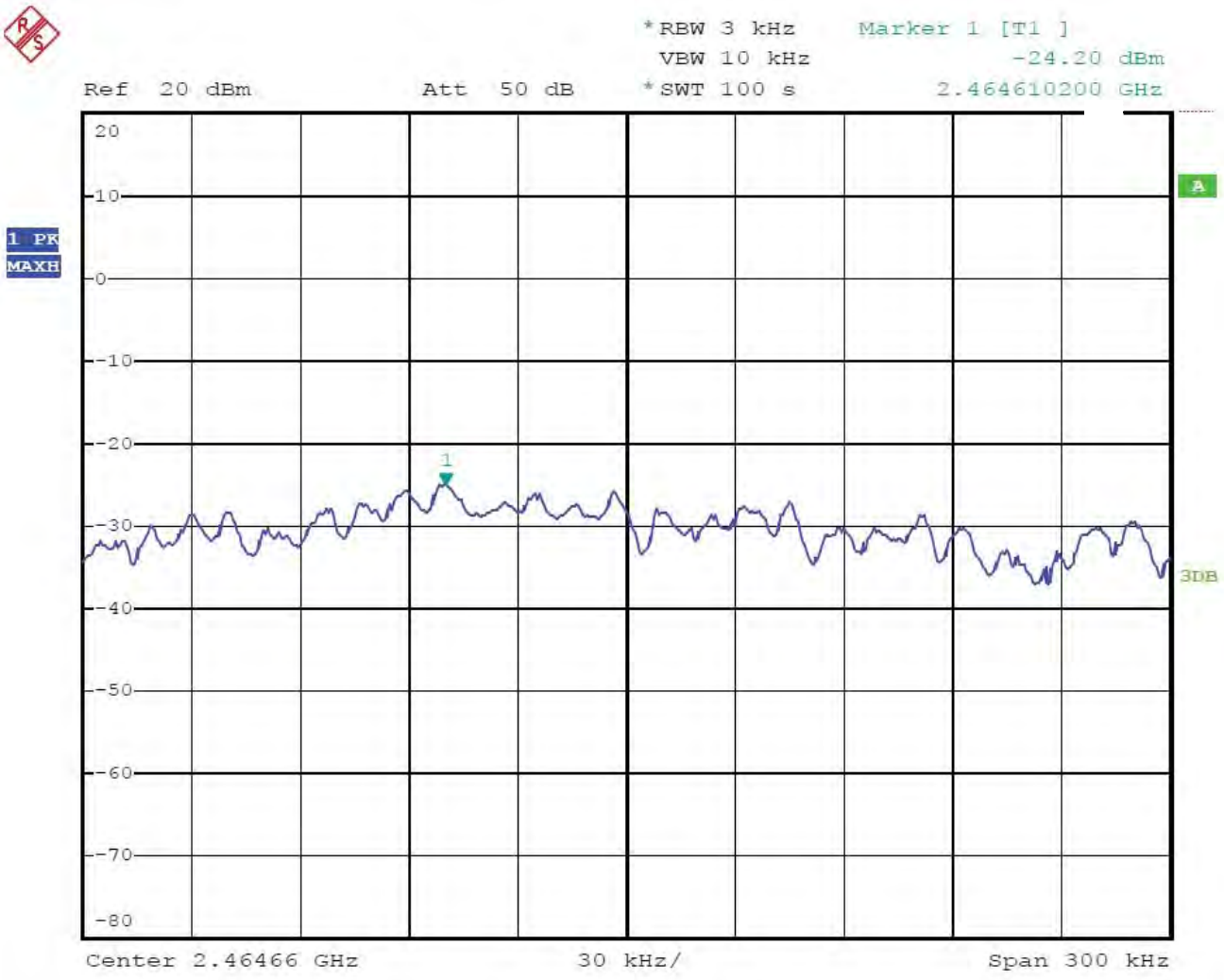
802.11g Channel Low 2412MHz



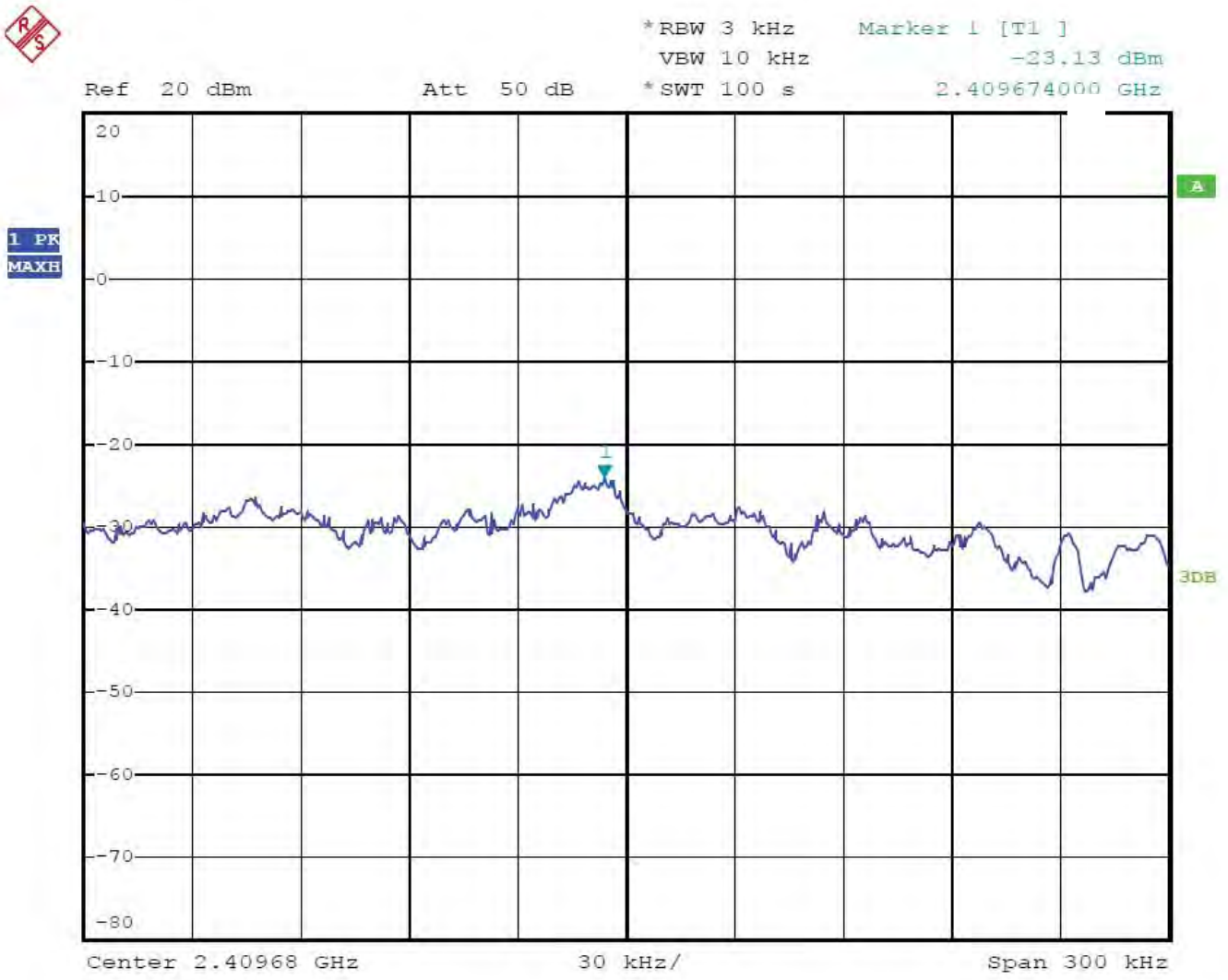
802.11g Channel Middle 2437MHz



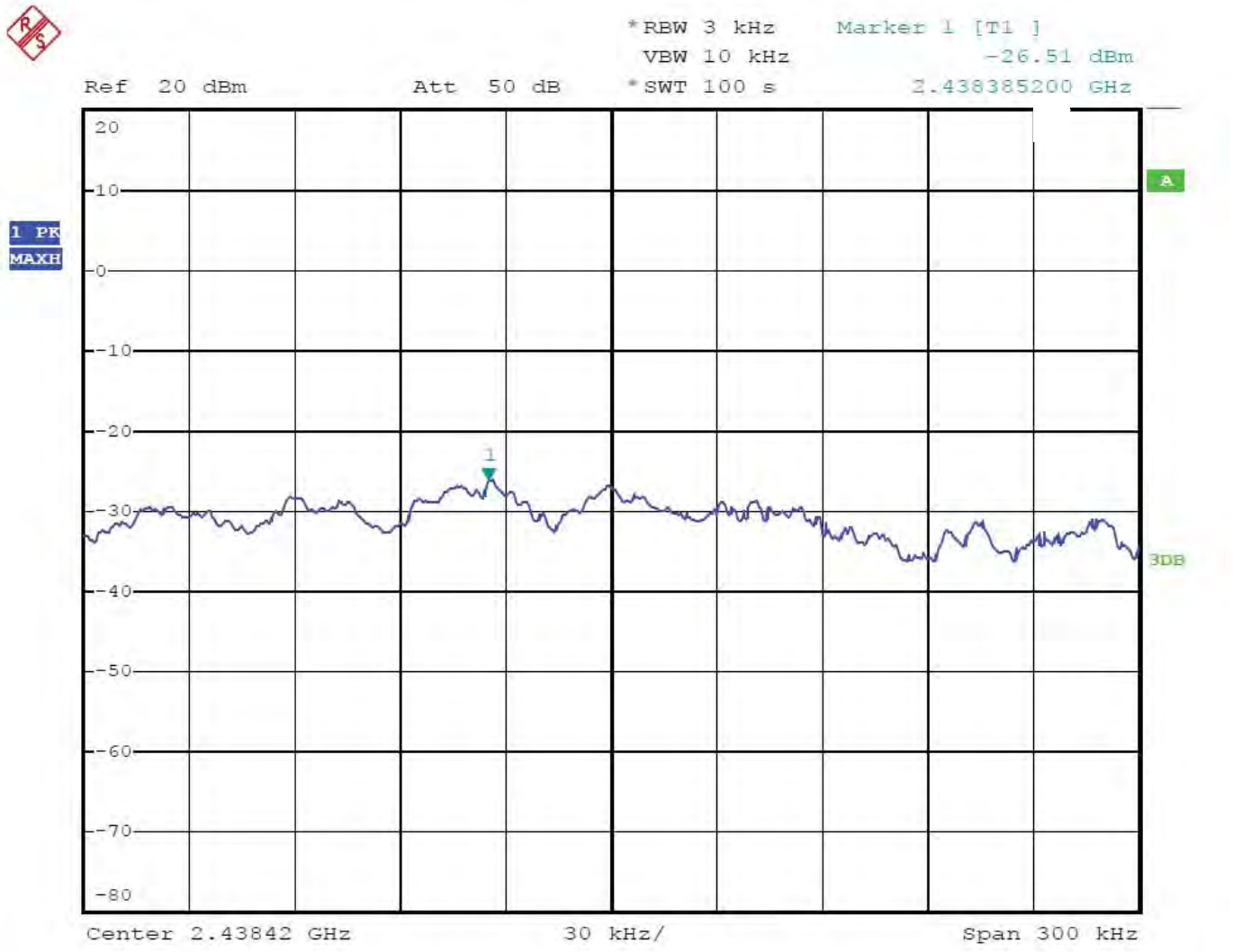
802.11g Channel High 2462MHz



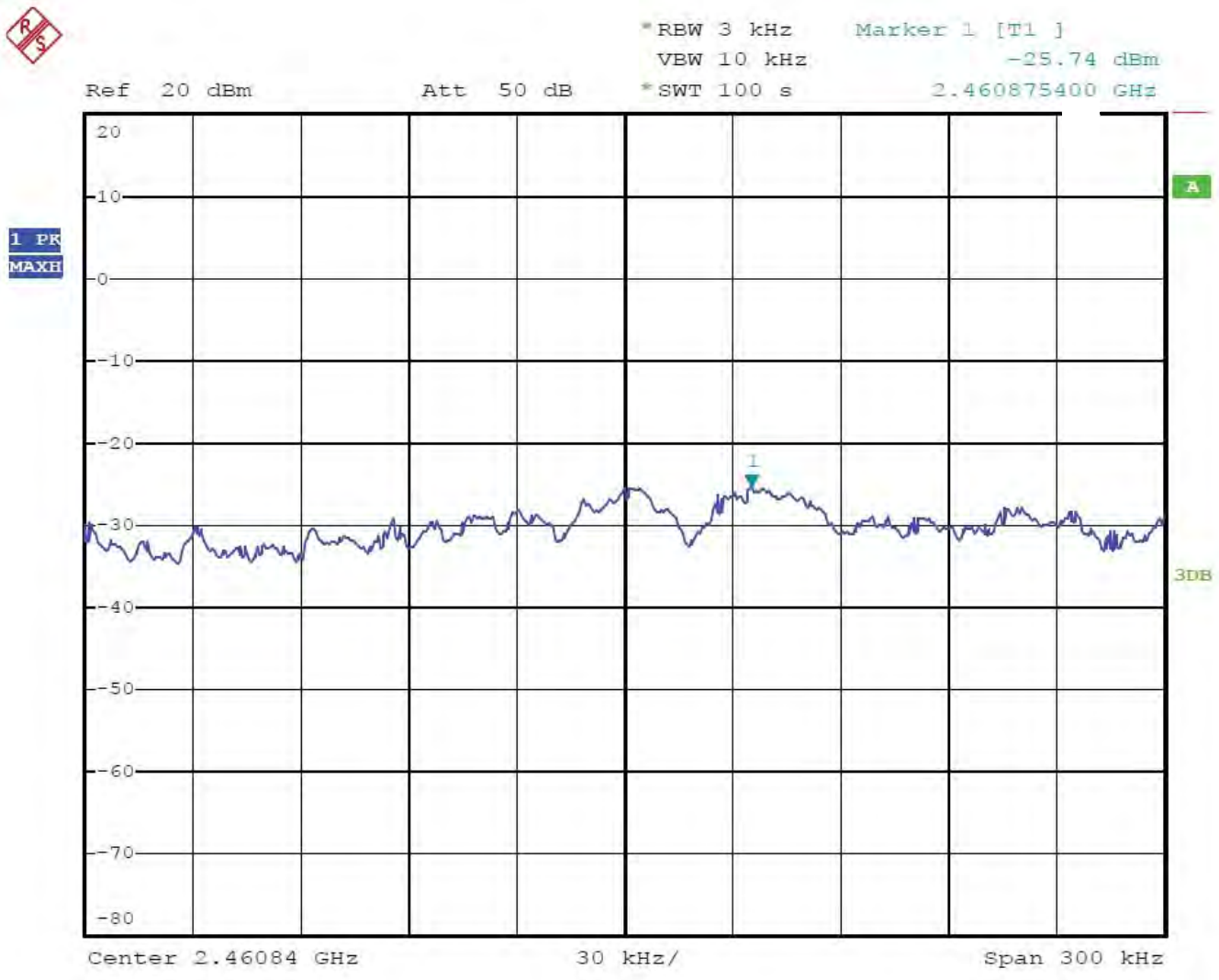
802.11n Channel High 2412MHz



802.11n Channel High 2437MHz

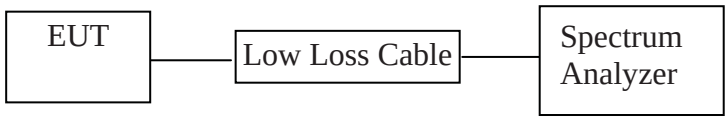


802.11n Channel High 2462MHz



# 8. BAND EDGE COMPLIANCE TEST

## 8.1.Block Diagram of Test Setup




(EUT: MID)

## 8.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 8.3.EUT Configuration on Measurement

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

### 8.3.1.MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 8.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

## 8.5.Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7.The band edges was measured and recorded.

## 8.6.Test Result

**Pass**

**Conducted test**

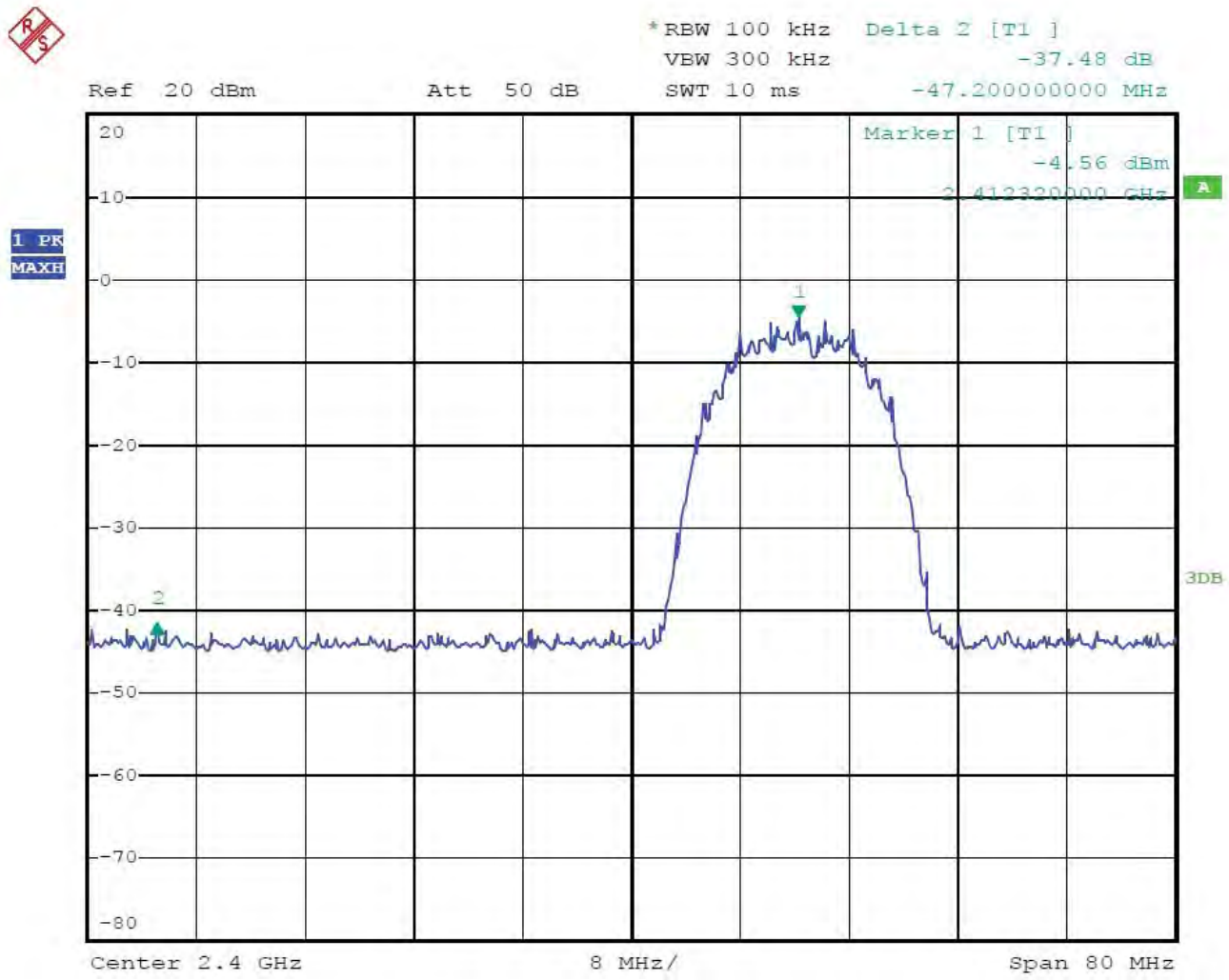
| | | | |
|---|---|---|---|
| Date of Test: | January 14, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX | Test Engineer: | Pei |

| The test was performed with 802.11b | | |
|---|---|---|
| Frequency (MHz) | Result of Band Edge (dBc) | Limit of Band Edge (dBc) |
| 2412 | 37.59 | > 20dBc |
| 2462 | 36.79 | > 20dBc |

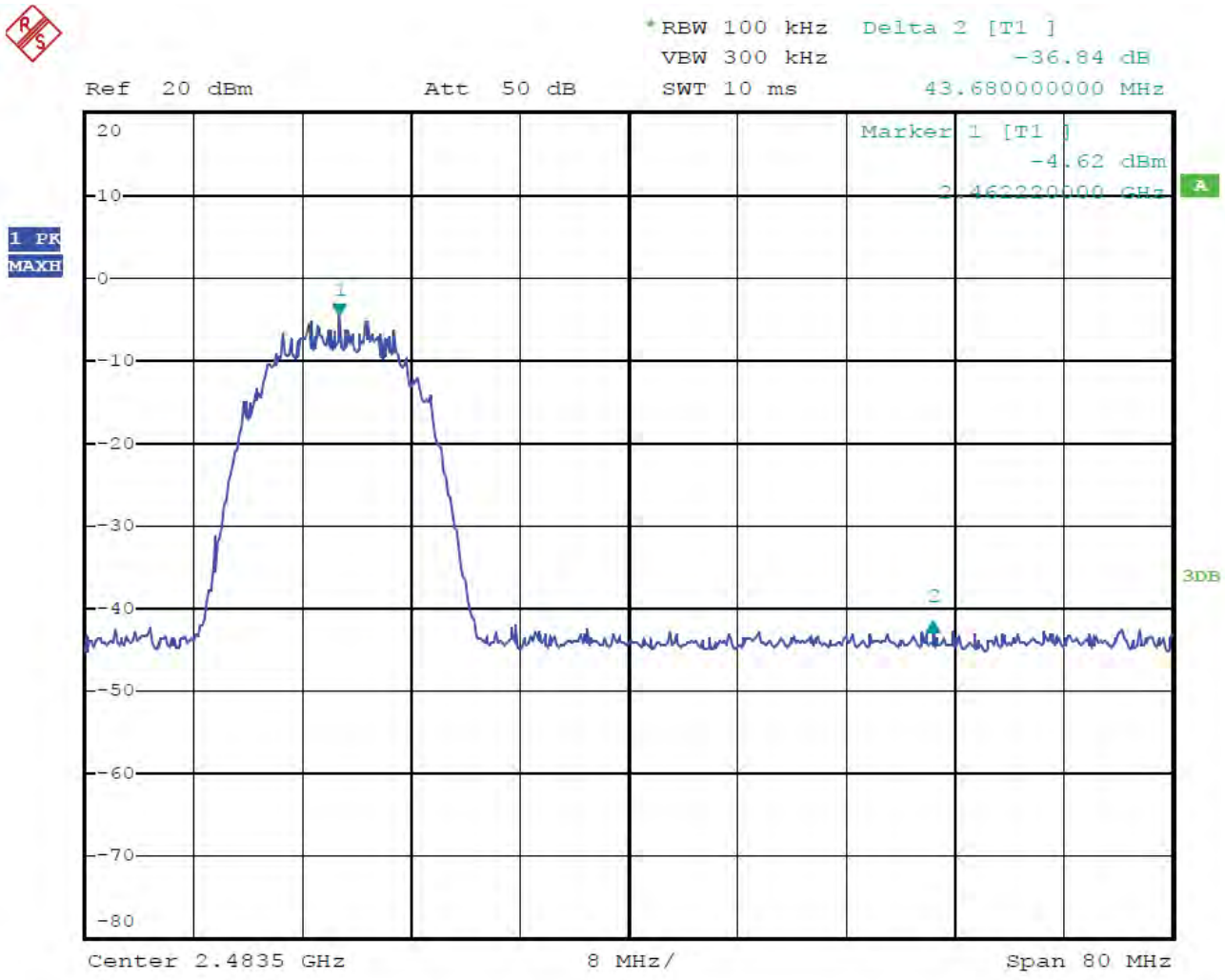
| The test was performed with 802.11g | | |
|---|---|---|
| Frequency (MHz) | Result of Band Edge (dBc) | Limit of Band Edge (dBc) |
| 2412 | 33.58 | > 20dBc |
| 2462 | 32.12 | > 20dBc |

| The test was performed with 802.11n | | |
|---|---|---|
| Frequency (MHz) | Result of Band Edge (dBc) | Limit of Band Edge (dBc) |
| 2412 | 32.26 | > 20dBc |
| 2462 | 32.45 | > 20dBc |

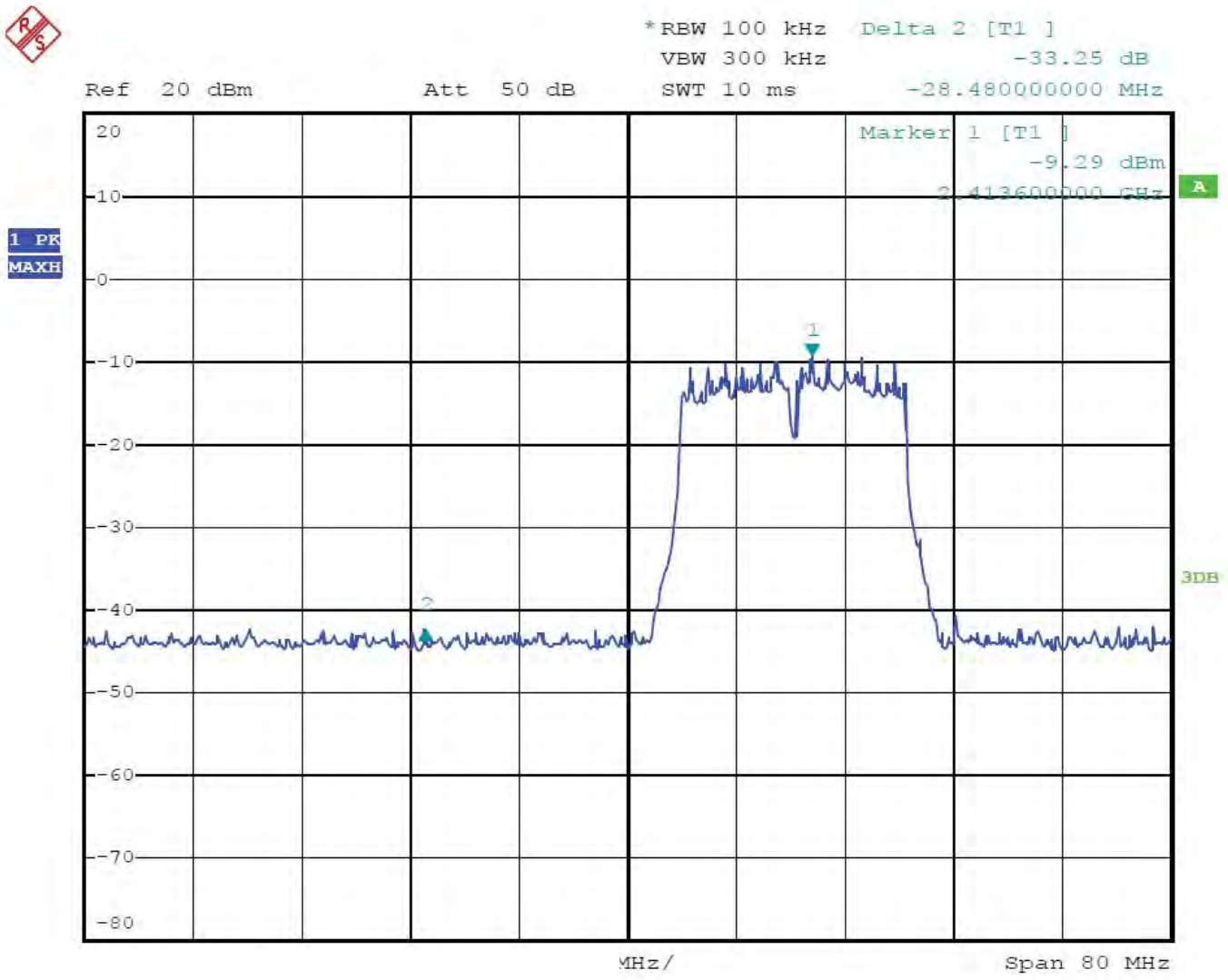
802.11b Channel Low 2412MHz



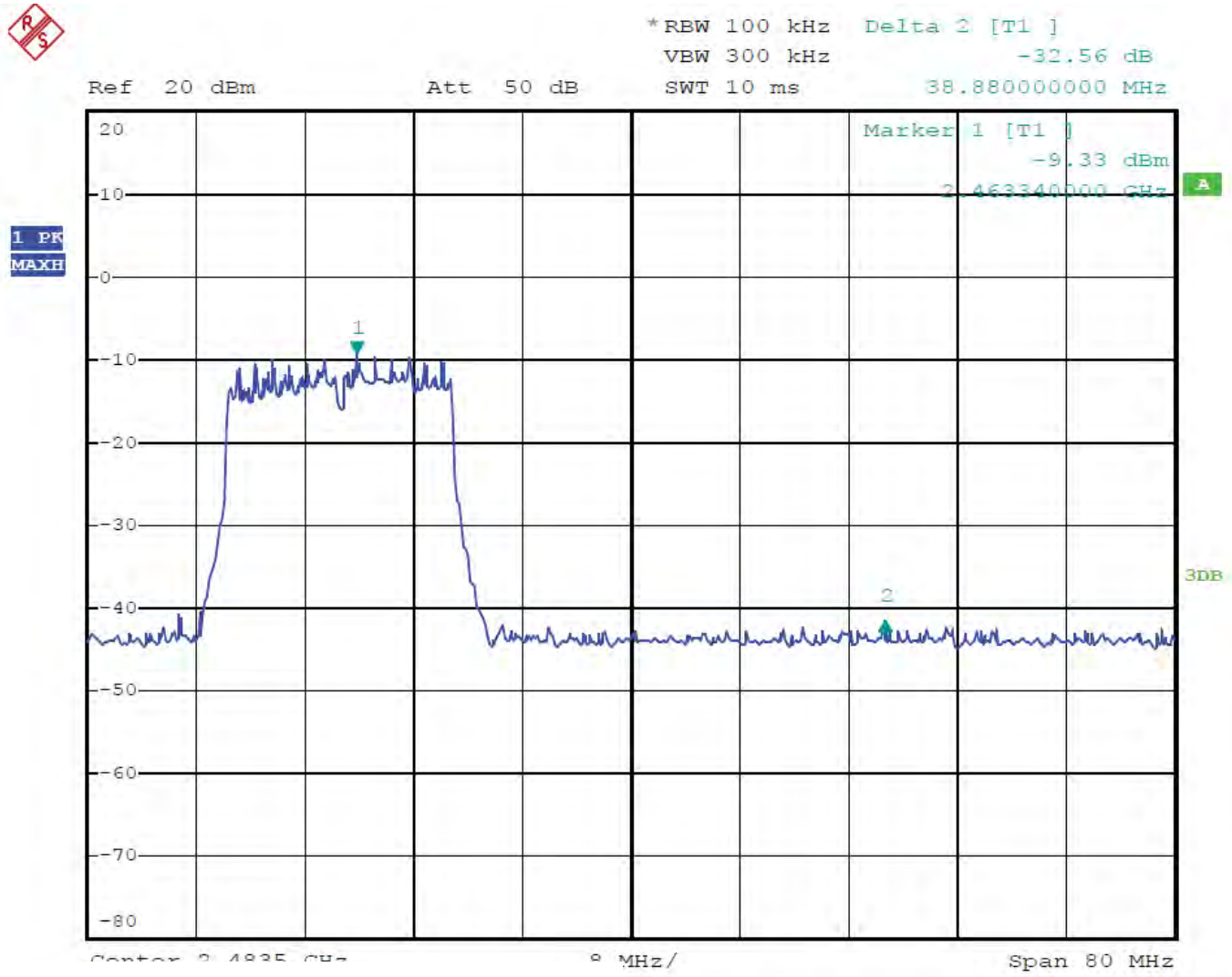
802.11b Channel High 2462MHz



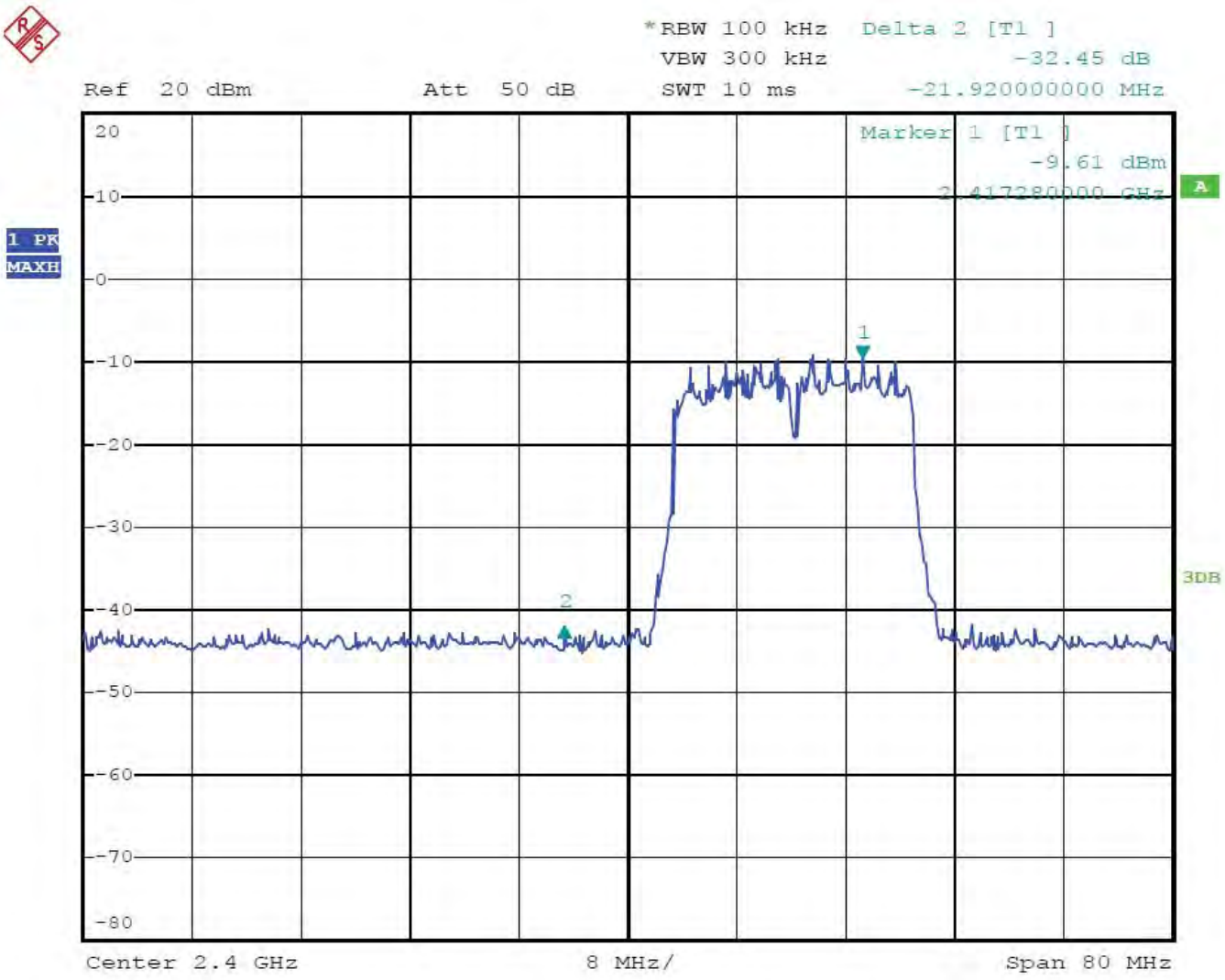
802.11g Channel Low 2412MHz



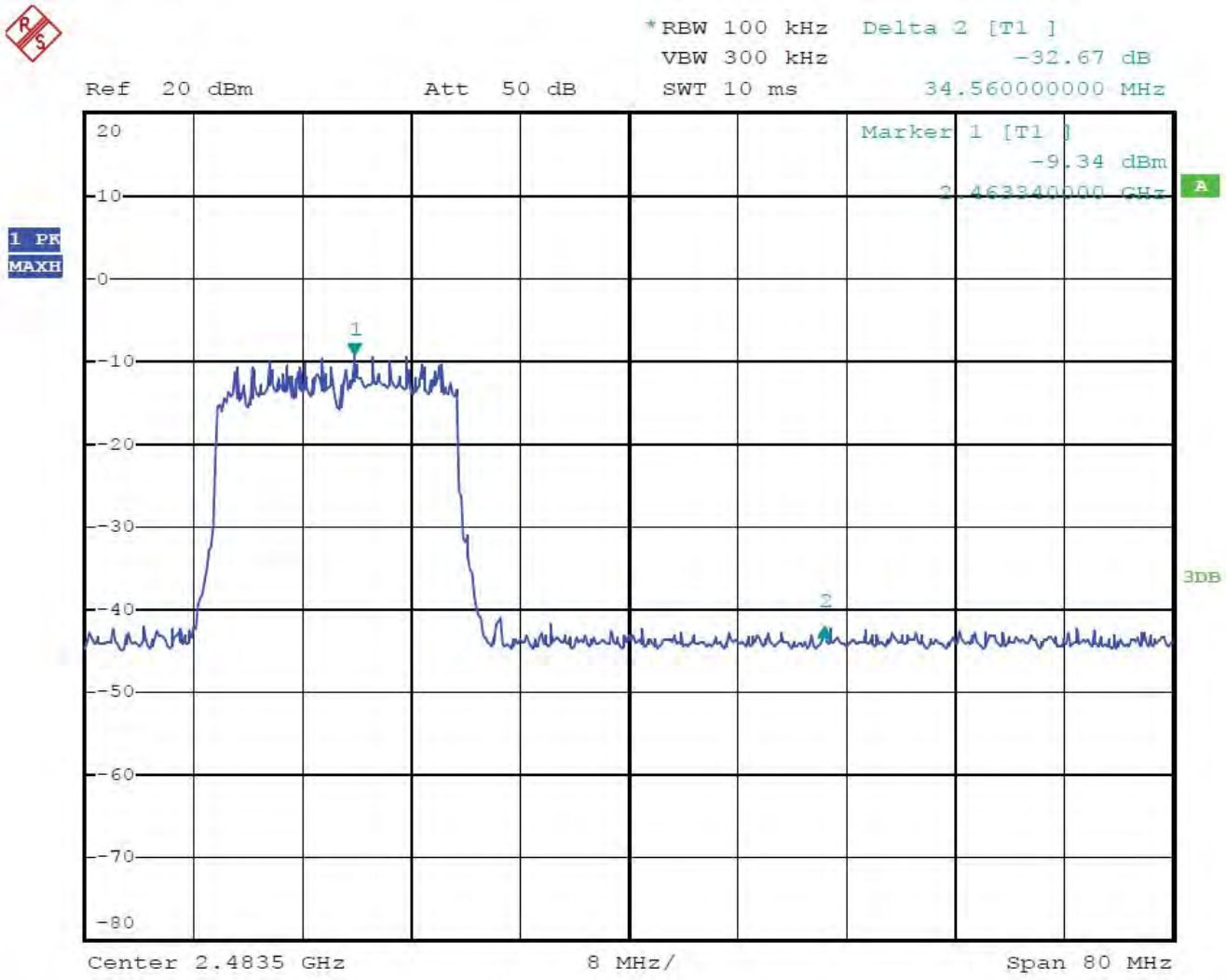
802.11g Channel High 2462MHz



802.11n Channel High 2412MHz



802.11n Channel High 2462MHz



**Radiated Band Edge Result**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11b Channel Low 2412MHz | Test Engineer: | Pei |

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11b Channel High 2462MHz | Test Engineer: | Pei |

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11g Channel Low 2412MHz | Test Engineer: | Pei |

| Frequency | Reading(dBμV/m) | | Factor(dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | AV | PEAK | Corr. | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11g Channel High 2462MHz | Test Engineer: | Pei |

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11n Channel Low 2412MHz | Test Engineer: | Pei |

| Frequency | Reading(dBμV/m) | | Factor(dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| (MHz) | AV | PEAK | Corr. | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11n Channel High 2462MHz | Test Engineer: | Pei |

| Frequency (MHz) | Reading(dBμV/m) | | Factor(dB) Corr. | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dB) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

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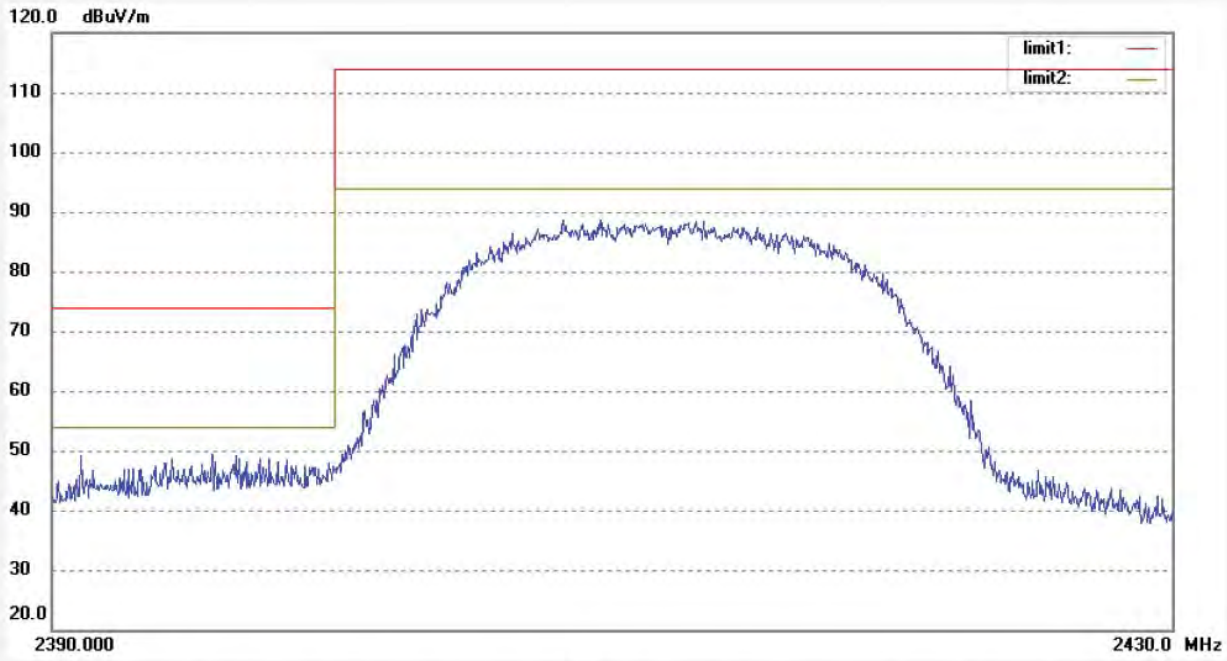
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1833 | Polarization: Horizontal |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 23:15:17 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11b) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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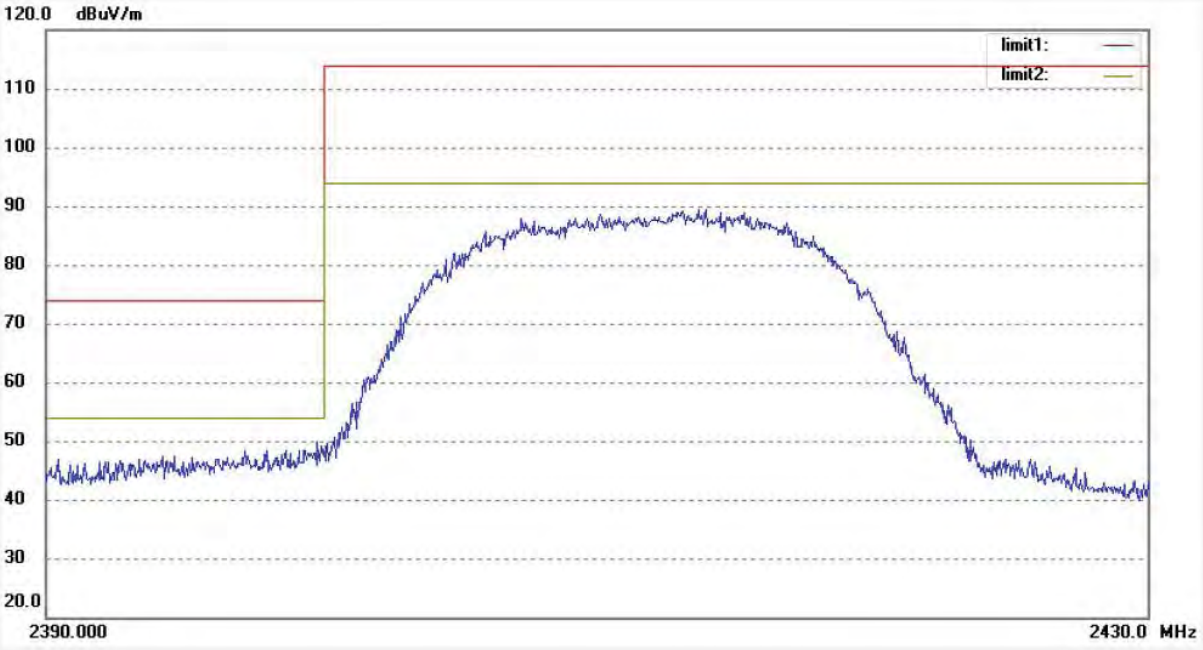
| | |
|---|---|
| Job No.: Bob #1832 | Polarization: Vertical |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 23:11:09 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11b) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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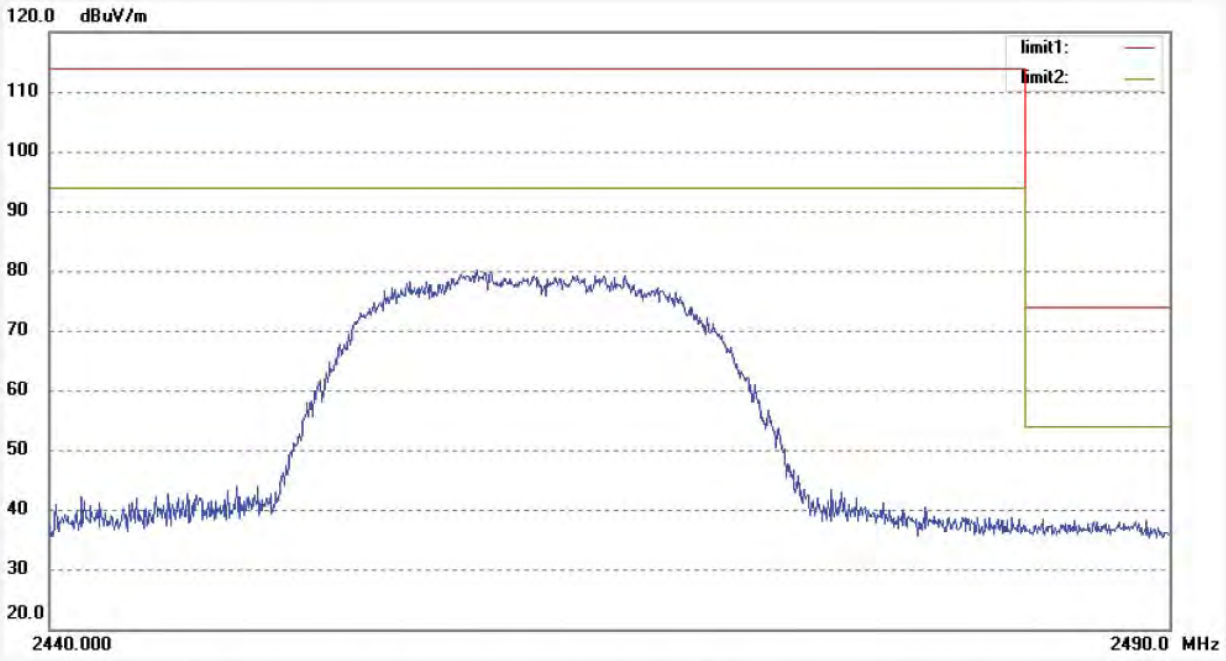
| | |
|---|---|
| Job No.: Bob #1830 | Polarization: Horizontal |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 23:05:45 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11b) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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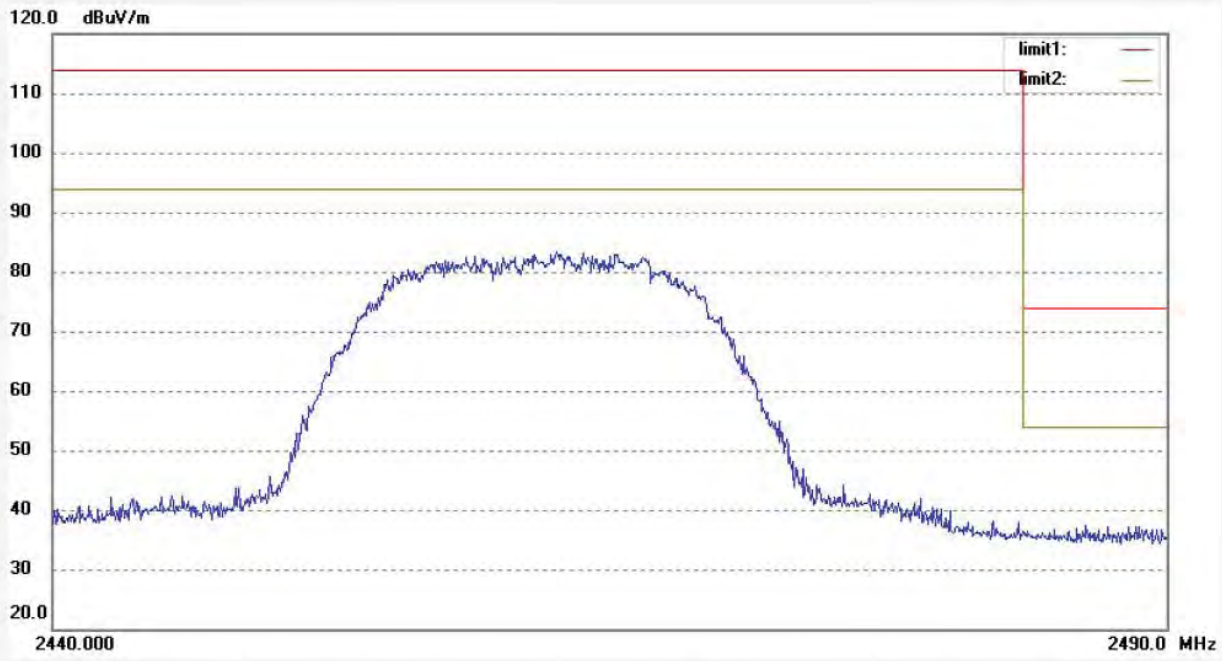
| | |
|---|---|
| Job No.: Bob #1831 | Polarization: Vertical |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 23:07:21 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11b) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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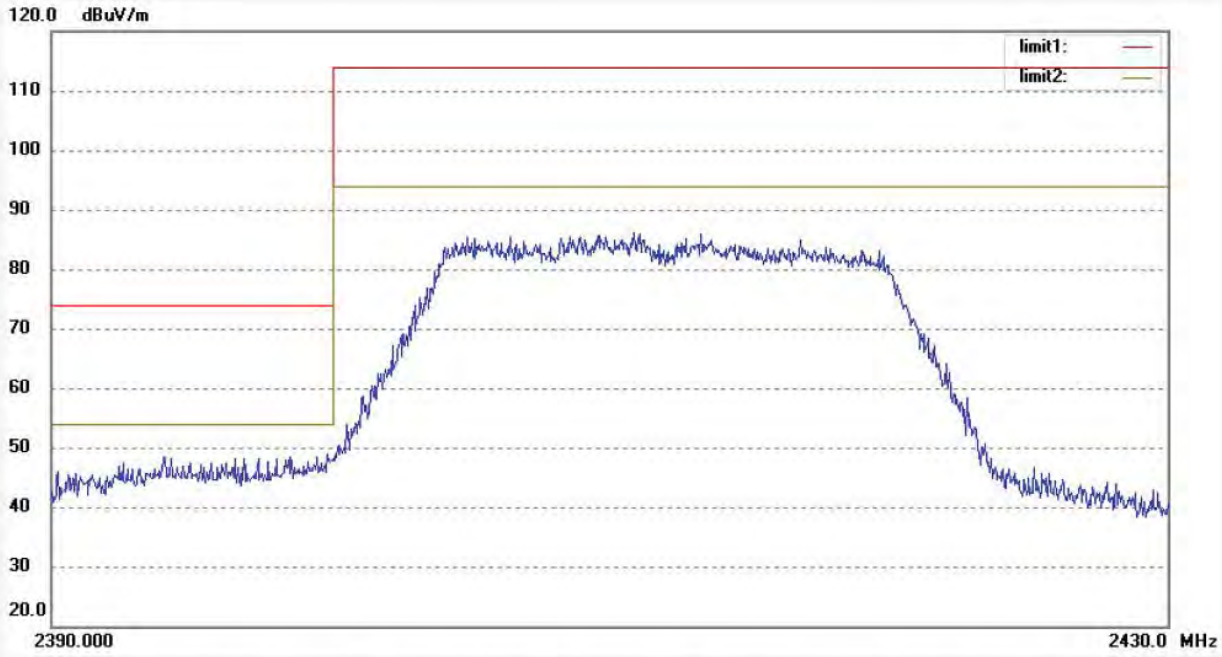
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1826 | Polarization: Horizontal |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 22:55:09 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11g) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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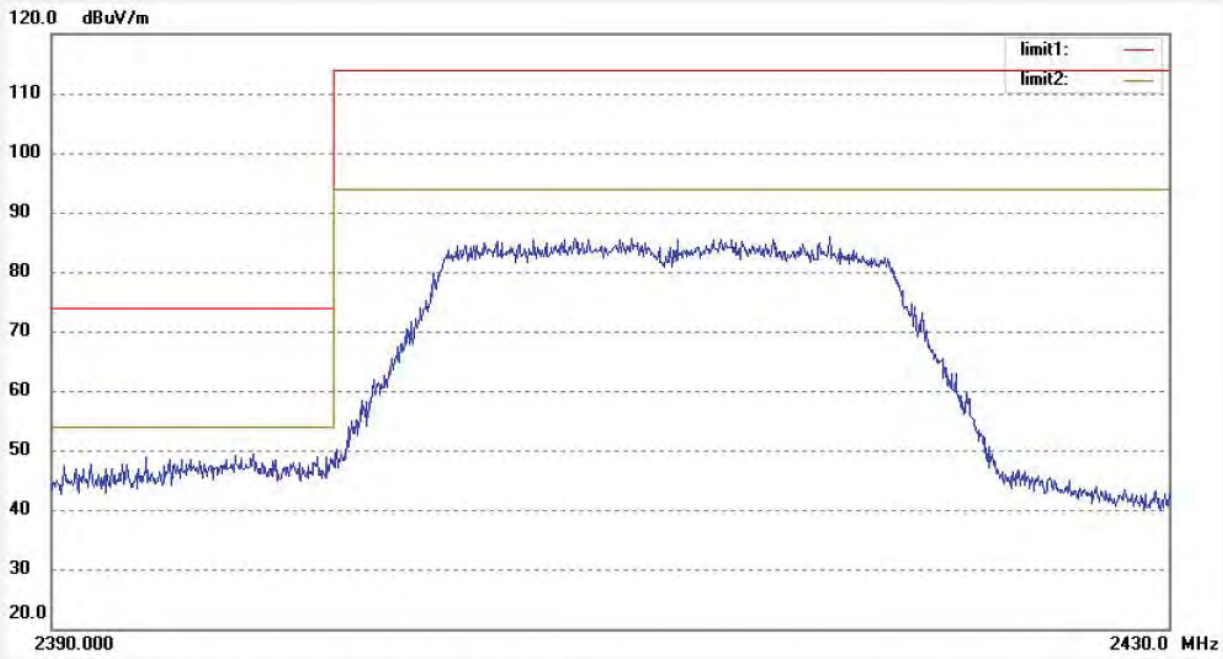
| | |
|---|---|
| Job No.: Bob #1827 | Polarization: Vertical |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 22:56:35 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11g) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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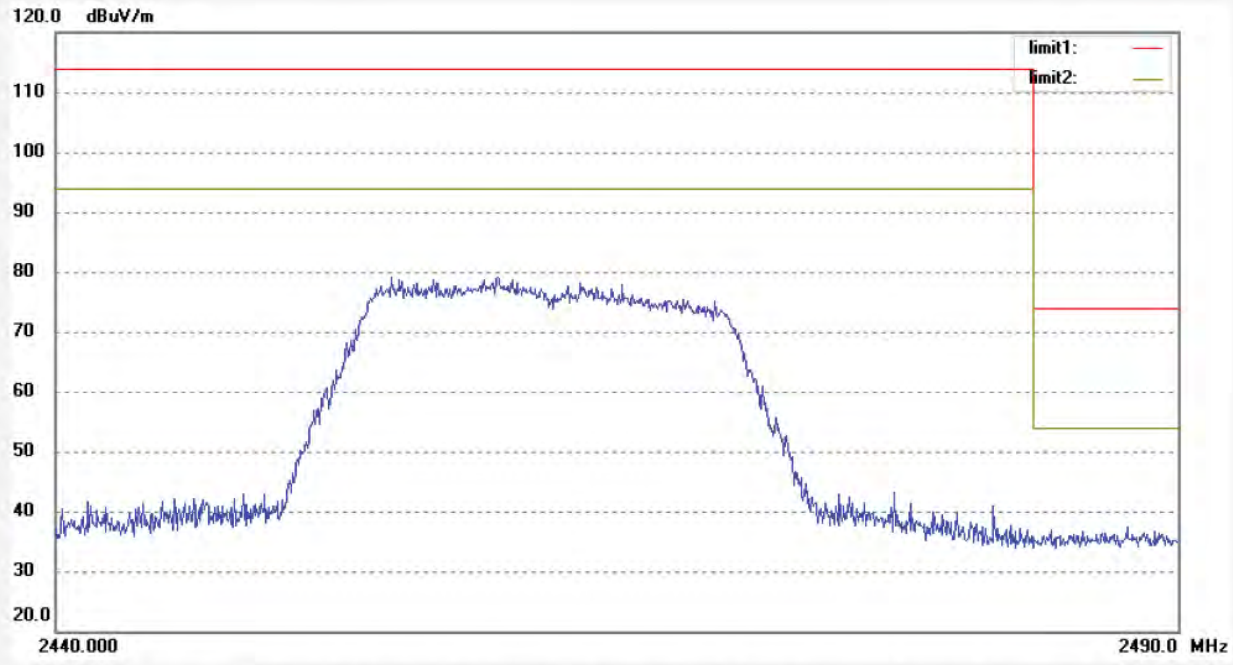
| | |
|---|---|
| Job No.: Bob #1829 | Polarization: Horizontal |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 23:01:23 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11g) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
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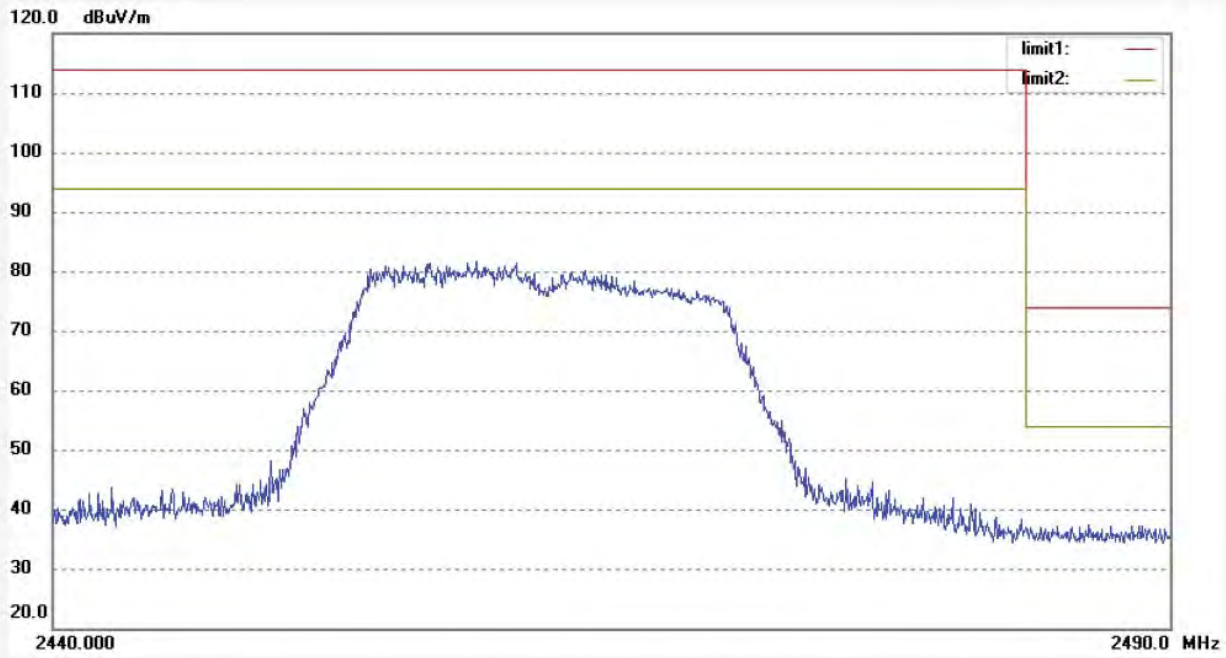
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1828 | Polarization: Vertical |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 23:00:19 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11g) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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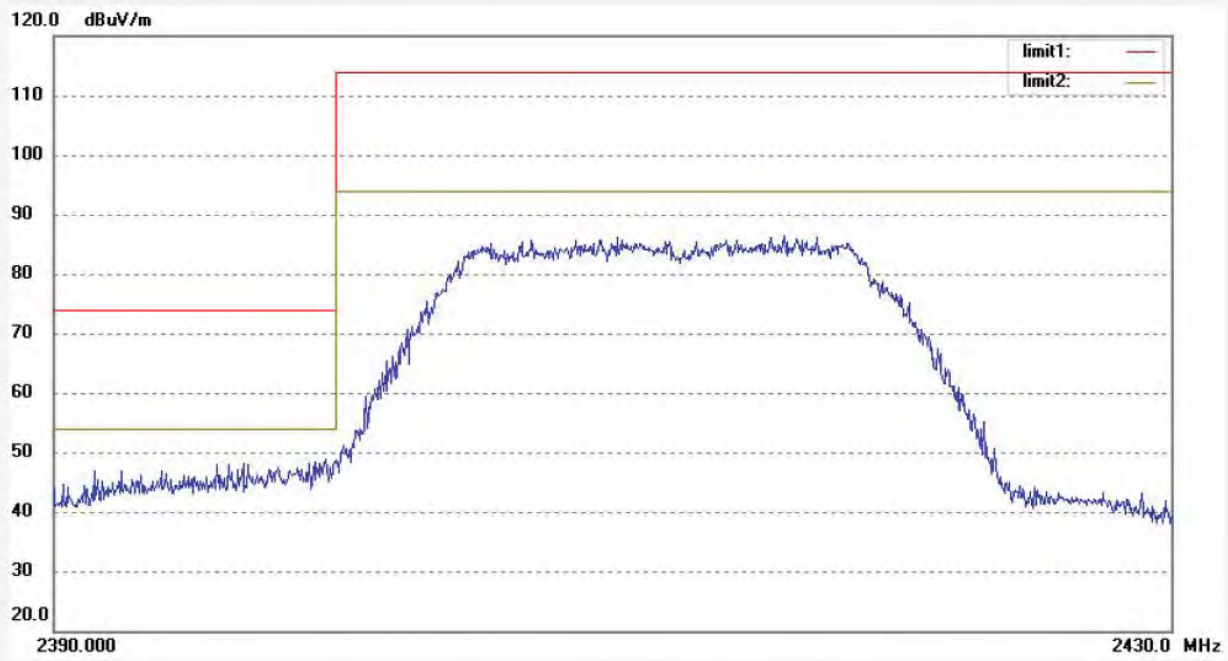
| | |
|---|---|
| Job No.: Bob #1822 | Polarization: Horizontal |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 22:42:51 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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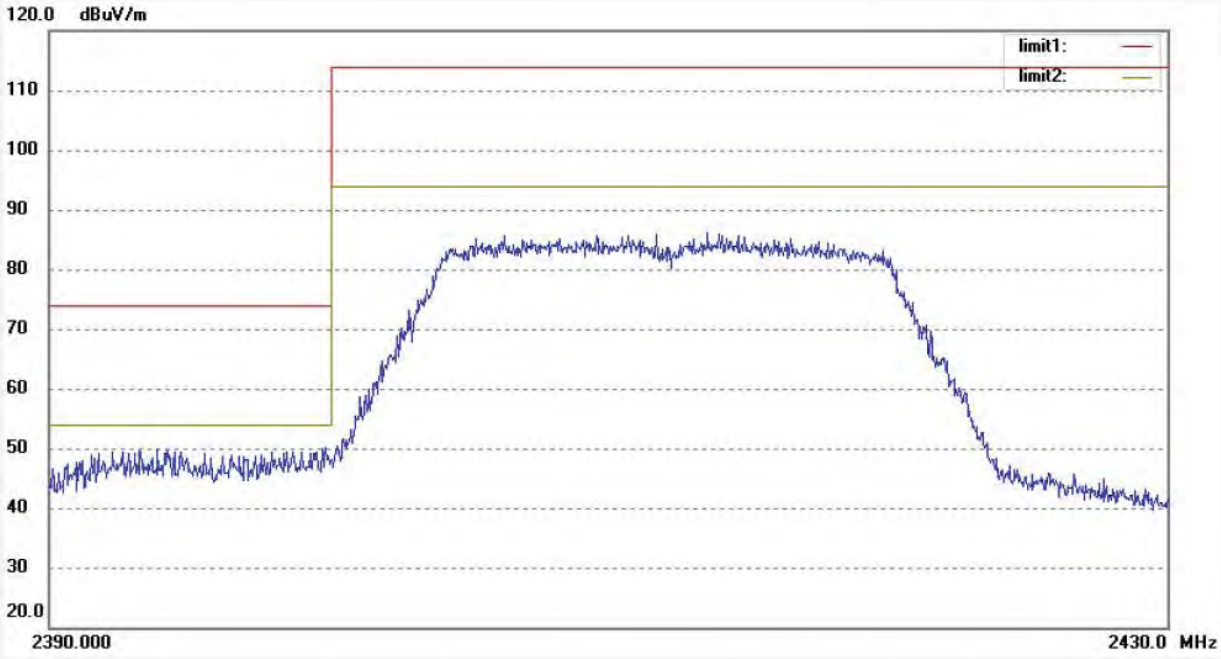
| | |
|---|---|
| Job No.: Bob #1823 | Polarization: Vertical |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 22:44:01 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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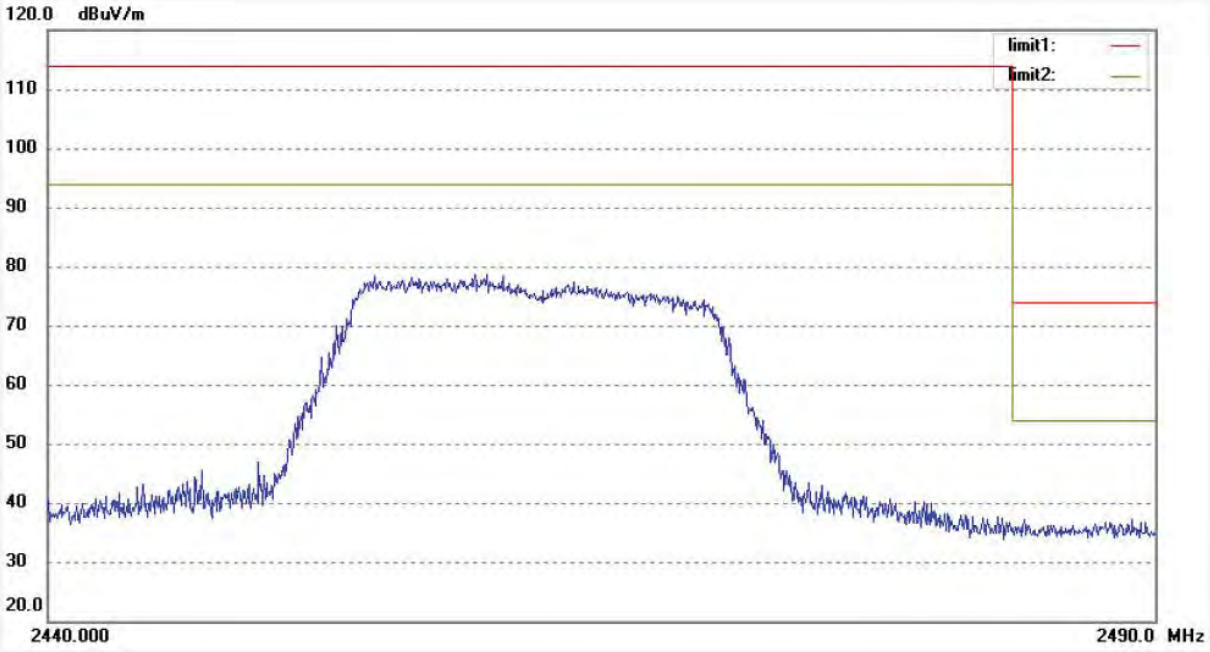
| | |
|---|---|
| Job No.: Bob #1825 | Polarization: Horizontal |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 22:50:06 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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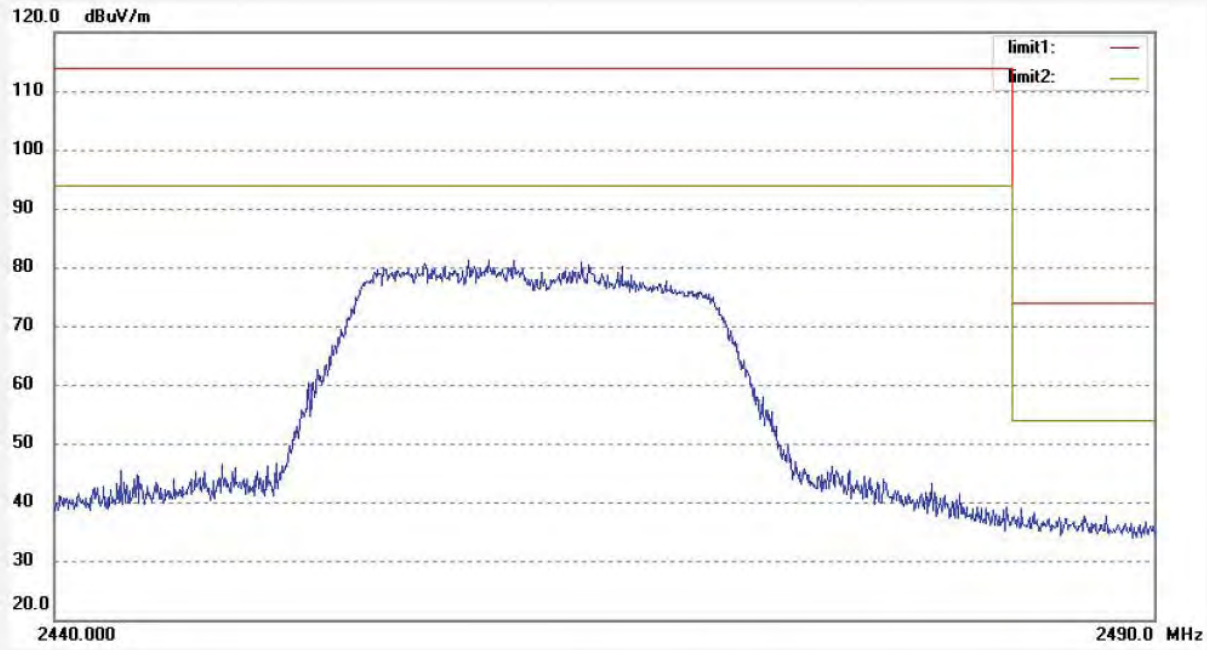
| | |
|---|---|
| Job No.: Bob #1824 | Polarization: Vertical |
| Standard: FCC Part 15 PEAK 2.4G | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 22:48:57 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034

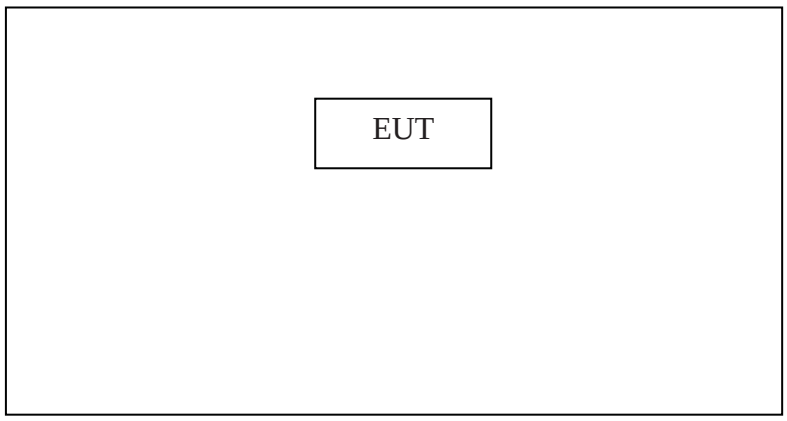



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

# 9. RADIATED SPURIOUS EMISSION TEST

## 9.1.Block Diagram of Test Setup

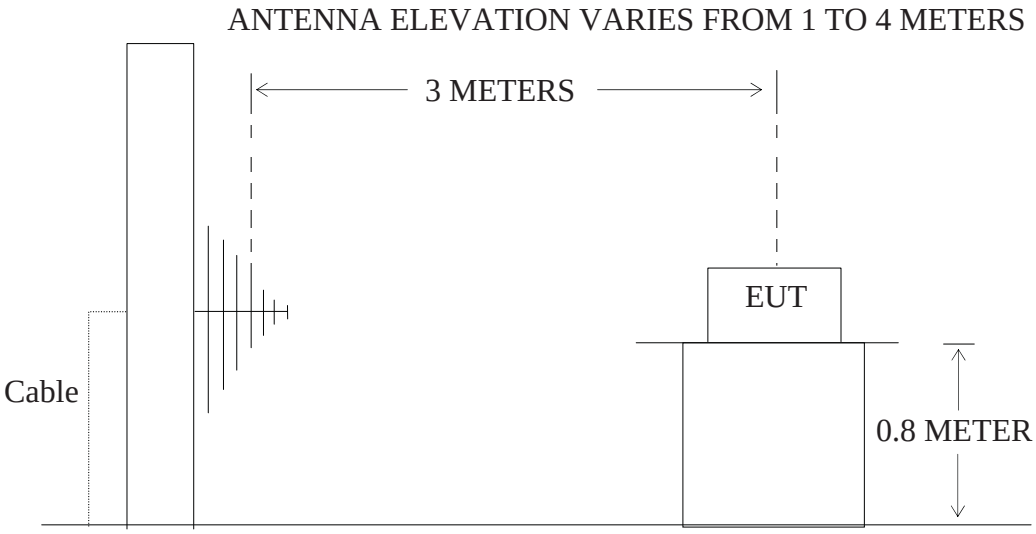
### 9.1.1.Block diagram of connection between the EUT and peripherals




Setup: Transmitting mode

(EUT: MID)

### 9.1.2.Semi-Anechoic Chamber Test Setup Diagram




(EUT: MID)

## 9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 9.3.Restricted bands of operation

### 9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

| 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]) |
| 13.36-13.41 | | | |

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 9.4.Configuration of EUT on Measurement

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

### 9.4.1.MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.

9.5.2.Turn on the power of all equipment.

9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 9.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 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 polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.
The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver (R&S ESI26) is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.
The frequency range from 30MHz to 25000MHz is checked.
The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

## 9.7.The Field Strength of Radiation Emission Measurement Results

**PASS.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11b Channel Low 2412MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 153.9254 | 25.27 | 14.56 | 39.83 | 43.50 | -3.67 | Vertical |
| 218.1194 | 24.12 | 16.63 | 40.75 | 46.00 | -5.25 | Vertical |
| 500.1302 | 17.20 | 23.99 | 41.19 | 46.00 | -4.81 | Vertical |
| 153.9254 | 24.19 | 14.56 | 38.75 | 43.50 | -4.75 | Horizontal |
| 192.9837 | 22.62 | 16.04 | 38.66 | 43.50 | -4.84 | Horizontal |
| 278.3546 | 21.98 | 18.28 | 40.26 | 46.00 | -5.74 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11b Channel Middle 2437MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 168.0540 | 24.53 | 14.70 | 39.23 | 43.50 | -4.27 | Vertical |
| 182.9379 | 24.25 | 15.87 | 40.12 | 43.50 | -3.38 | Vertical |
| 694.4673 | 15.08 | 26.44 | 41.52 | 46.00 | -4.48 | Vertical |
| 208.4701 | 23.70 | 16.29 | 39.99 | 43.50 | -3.51 | Horizontal |
| 218.1194 | 24.21 | 16.63 | 40.84 | 46.00 | -5.16 | Horizontal |
| 236.3095 | 23.18 | 16.80 | 39.98 | 46.00 | -6.02 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11b Channel High 2462MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 172.1887 | 23.26 | 15.17 | 38.43 | 43.50 | -5.07 | Vertical |
| 236.3095 | 21.73 | 16.50 | 38.23 | 46.00 | -7.77 | Vertical |
| 555.2269 | 14.27 | 25.33 | 39.60 | 46.0 | -6.40 | Vertical |
| 183.9379 | 24.02 | 15.98 | 40.00 | 43.50 | -3.50 | Horizontal |
| 218.1194 | 23.35 | 16.63 | 39.98 | 46.00 | -6.02 | Horizontal |
| 694.4763 | 14.18 | 26.44 | 40.62 | 46.00 | -5.38 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11g Channel Low 2412MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 172.7878 | 25.16 | 15.30 | 40.46 | 43.50 | -3.04 | Vertical |
| 193.7838 | 24.15 | 16.10 | 40.25 | 43.50 | -3.25 | Vertical |
| 669.6023 | 16.23 | 26.13 | 42.36 | 46.00 | -3.64 | Vertical |
| 192.7838 | 22.55 | 16.04 | 38.59 | 43.50 | -4.91 | Horizontal |
| 209.9259 | 23.15 | 16.35 | 39.50 | 43.50 | -4.00 | Horizontal |
| 646.4529 | 14.11 | 26.06 | 40.17 | 46.00 | -5.83 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11g Channel Middle 2437MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 169.2247 | 25.08 | 14.71 | 39.79 | 43.50 | -3.71 | Vertical |
| 183.2379 | 24.16 | 15.87 | 40.03 | 43.50 | -3.47 | Vertical |
| 622.2167 | 14.24 | 26.06 | 40.30 | 46.00 | -5.70 | Vertical |
| 193.2383 | 23.22 | 16.04 | 39.26 | 43.50 | -4.24 | Horizontal |
| 211.0924 | 23.25 | 16.39 | 39.64 | 43.50 | -3.86 | Horizontal |
| 693.5763 | 15.23 | 26.43 | 41.66 | 46.00 | -4.34 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11g Channel High 2462MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 178.2744 | 24.02 | 15.77 | 39.79 | 43.50 | -3.71 | Vertical |
| 279.3546 | 21.17 | 18.28 | 39.45 | 46.00 | -6.55 | Vertical |
| 576.9882 | 15.09 | 25.38 | 40.47 | 46.00 | -5.53 | Vertical |
| 163.3206 | 25.03 | 14.64 | 39.67 | 43.50 | -3.83 | Horizontal |
| 218.1194 | 23.10 | 16.63 | 39.73 | 46.00 | -6.27 | Horizontal |
| 683.8260 | 14.17 | 26.36 | 40.53 | 46.00 | -5.74 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11n Channel Low 2412MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 191.7732 | 23.27 | 16.06 | 39.33 | 43.50 | -4.17 | Vertical |
| 214.3557 | 24.28 | 16.51 | 40.79 | 43.50 | -2.71 | Vertical |
| 513.1487 | 18.00 | 24.09 | 42.09 | 46.00 | -3.91 | Vertical |
| 154.6254 | 24.38 | 14.56 | 38.94 | 43.50 | -4.56 | Horizontal |
| 193.7838 | 23.21 | 16.03 | 39.24 | 43.50 | -4.26 | Horizontal |
| 710.6941 | 14.23 | 26.83 | 41.15 | 46.00 | -4.85 | Horizontal |

**14.32**

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11n Channel Middle 2437MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 170.5919 | 25.11 | 14.84 | 39.95 | 43.50 | -3.55 | Vertical |
| 183.9379 | 24.24 | 15.90 | 40.14 | 43.50 | -3.36 | Vertical |
| 236.3095 | 25.16 | 16.50 | 41.66 | 46.00 | -4.34 | Vertical |
| 193.7838 | 23.17 | 16.03 | 39.20 | 43.50 | -4.30 | Horizontal |
| 218.1194 | 24.35 | 16.63 | 40.98 | 46.00 | -5.02 | Horizontal |
| 385.1960 | 19.22 | 21.72 | 40.94 | 46.00 | -5.06 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

| | | | |
|---|---|---|---|
| Date of Test: | January 18, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | 802.11n Channel High 2462MHz | Test Engineer: | Pei |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading (dBμV/m) | Factor Corr. (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|
| | QP | | QP | QP | QP | |
| 153.9254 | 25.62 | 14.56 | 40.18 | 43.50 | -3.32 | Vertical |
| 170.9919 | 25.46 | 14.93 | 40.39 | 43.50 | -3.11 | Vertical |
| 465.2561 | 17.57 | 23.43 | 41.00 | 46.00 | -5.00 | Vertical |
| 210.6579 | 24.10 | 16.37 | 40.47 | 43.50 | -3.03 | Horizontal |
| 324.5896 | 21.14 | 19.53 | 40.67 | 46.00 | -5.33 | Horizontal |
| 554.2269 | 16.20 | 25.32 | 41.52 | 46.00 | -4.48 | Horizontal |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency (MHz) | Reading(dBμV/m) | | Factor Corr. (dB) | Result(dBμV/m) | | Limit(dBμV/m) | | Margin(dBμV/m) | | Polarization |
|---|---|---|---|---|---|---|---|---|---|---|
| | AV | PEAK | | AV | PEAK | AV | PEAK | AV | PEAK | |
| - | - | - | - | - | - | - | - | - | - | Vertical |
| - | - | - | - | - | - | - | - | - | - | Horizontal |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. *: Denotes restricted band of operation.**

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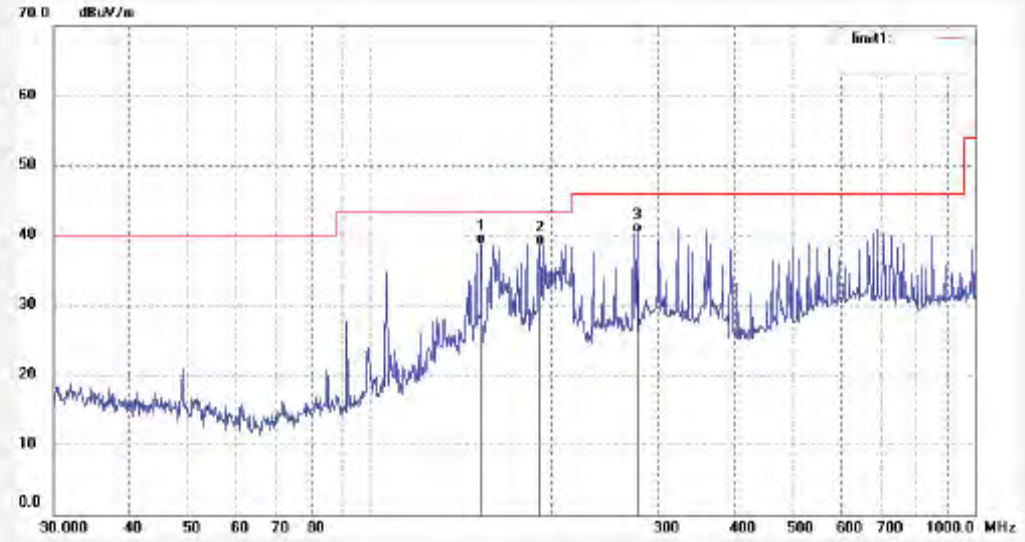
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1484
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1 (802.11b)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/32/23
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 153.9254 | 24.19 | 14.56 | 38.75 | 43.50 | -4.75 | QP | | | |
| 2 | 192.9837 | 22.62 | 16.04 | 38.66 | 43.50 | -4.84 | QP | | | |
| 3 | 278.3546 | 21.98 | 18.28 | 40.26 | 46.00 | -5.74 | QP | | | |

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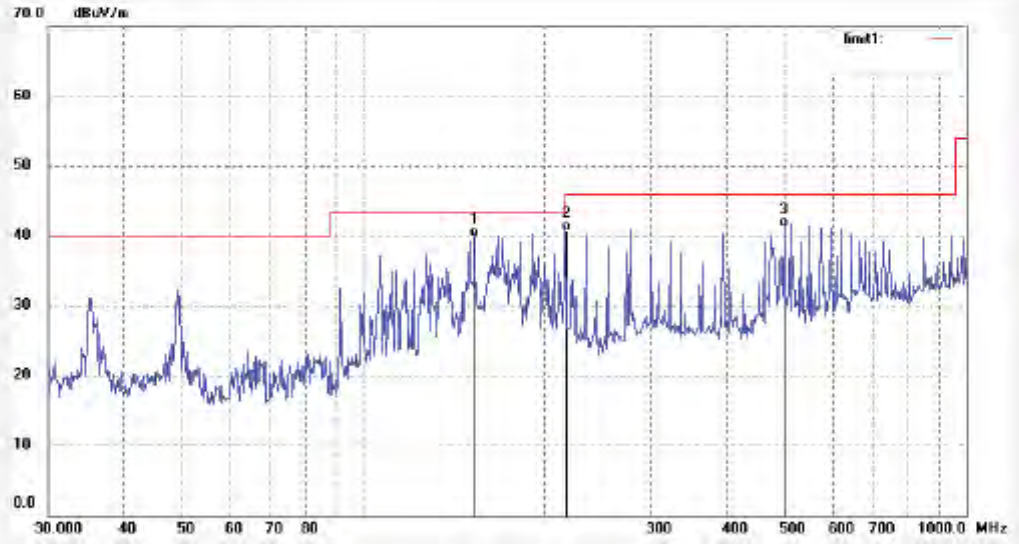
Job No.: Bob #1485
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1 (802.11b)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/32/50
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 153.9254 | 25.27 | 14.56 | 39.83 | 43.50 | -3.67 | QP | | | |
| 2 | 218.1194 | 24.12 | 16.63 | 40.75 | 46.00 | -5.25 | QP | | | |
| 3 | 500.1302 | 17.20 | 23.99 | 41.19 | 46.00 | -4.81 | QP | | | |

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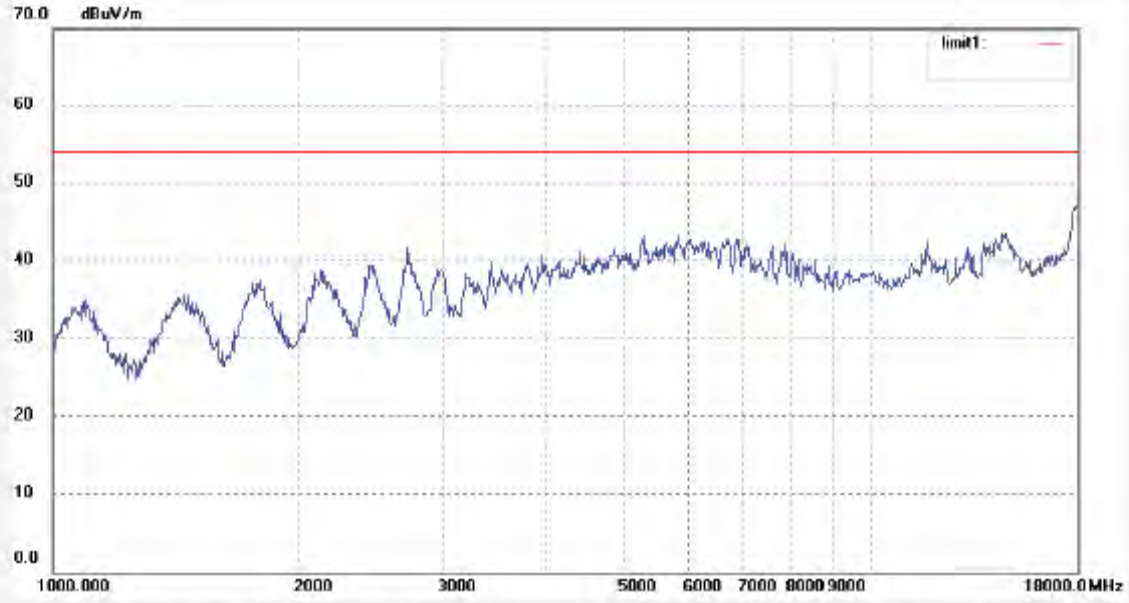
| | |
|---|---|
| Job No.: Bob #625 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 16:57:41 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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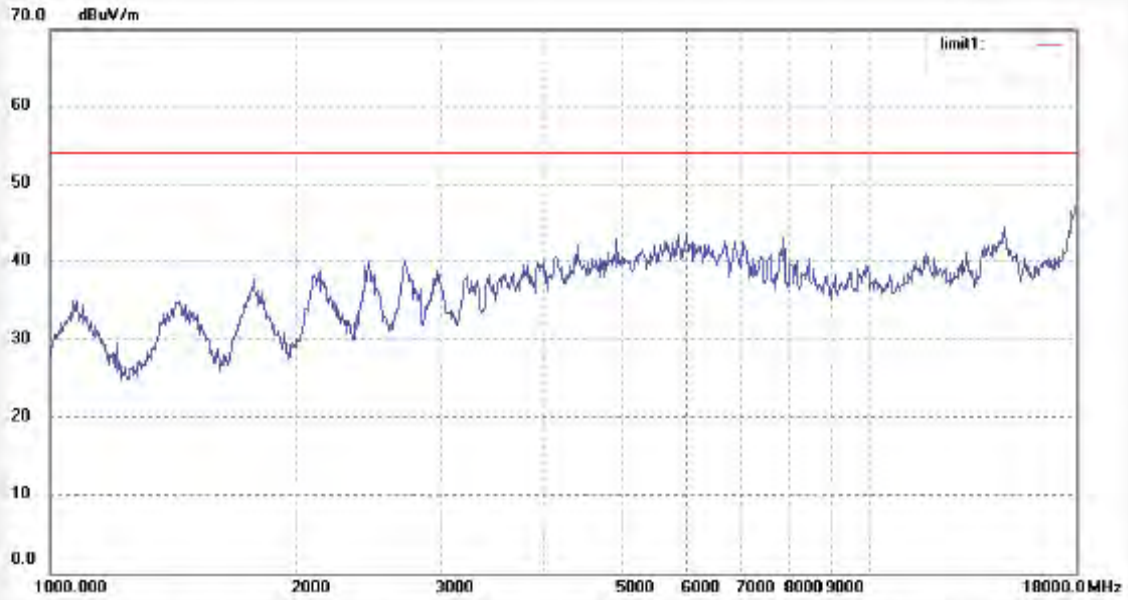
| | |
|---|---|
| Job No.: Bob #626 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 16:59:09 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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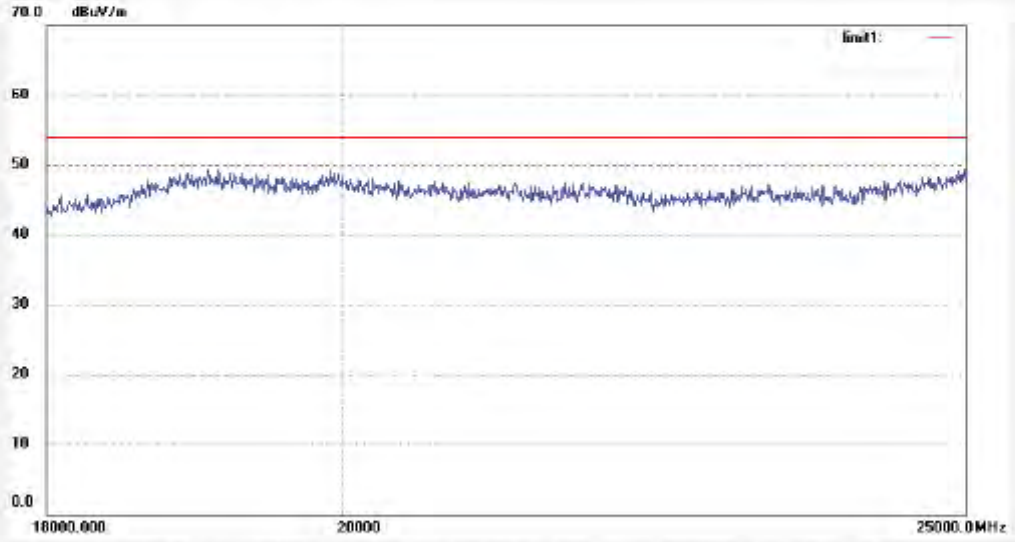
| | |
|---|---|
| Job No.: Bob #1545 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 14:57:50 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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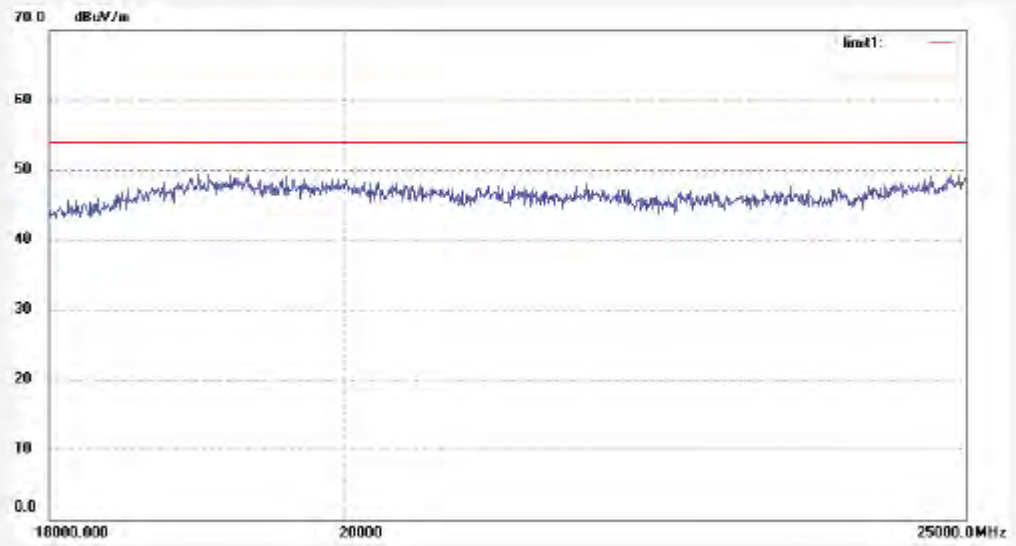
| | |
|---|---|
| Job No.: Bob #1546 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:01:26 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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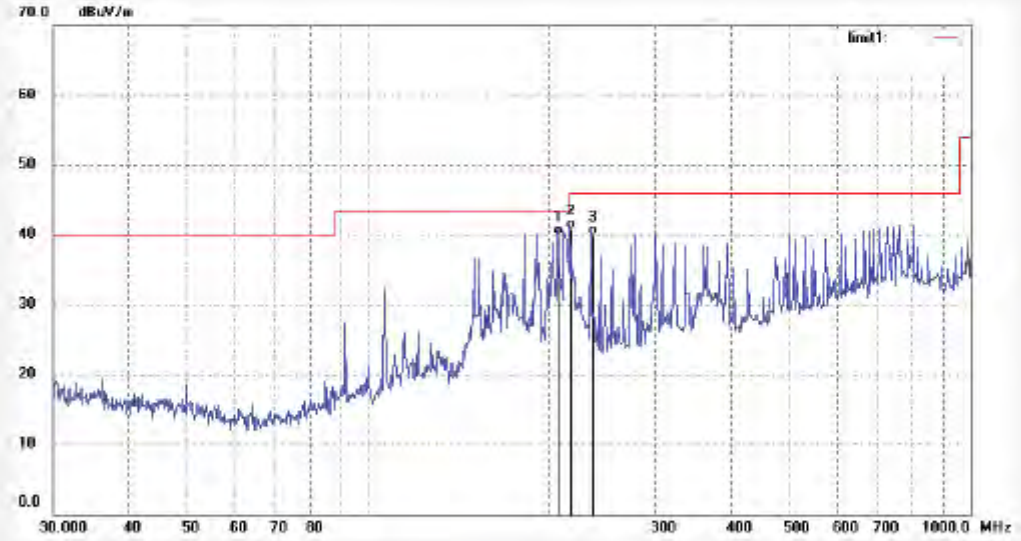
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1487
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 6 (802.11b)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/34/46
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 208.4701 | 23.70 | 16.29 | 39.99 | 43.50 | -3.51 | QP | | | |
| 2 | 218.1194 | 24.21 | 16.63 | 40.84 | 46.00 | -5.16 | QP | | | |
| 3 | 236.3095 | 23.18 | 16.80 | 39.98 | 46.00 | -6.02 | QP | | | |

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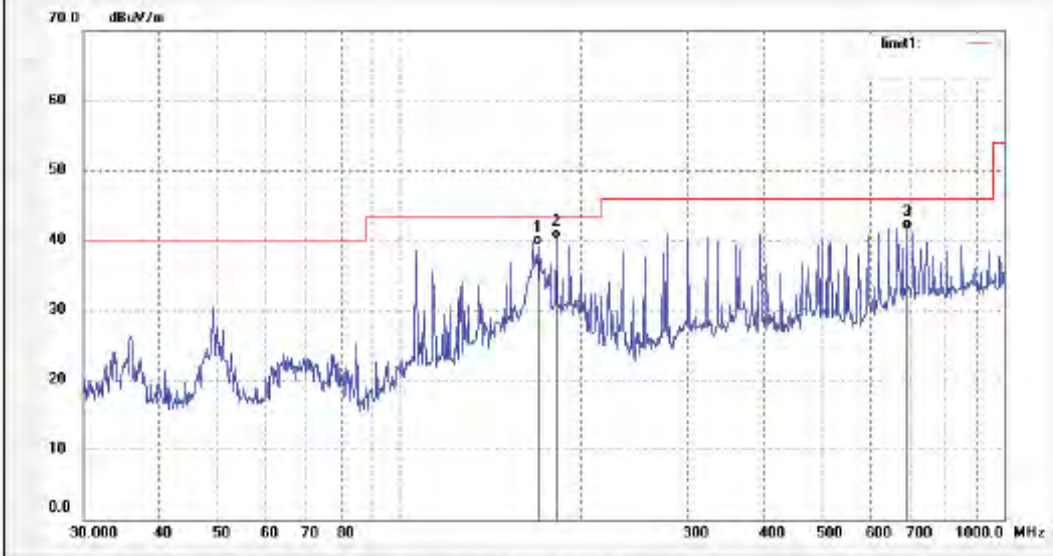
Job No.: Bob #1486
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 6 (802.11b)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/34/00
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 168.0540 | 24.53 | 14.70 | 39.23 | 43.50 | -4.27 | QP | | | |
| 2 | 182.9379 | 24.25 | 15.87 | 40.12 | 43.50 | -3.38 | QP | | | |
| 3 | 694.4763 | 15.08 | 26.44 | 41.52 | 46.00 | -4.48 | QP | | | |

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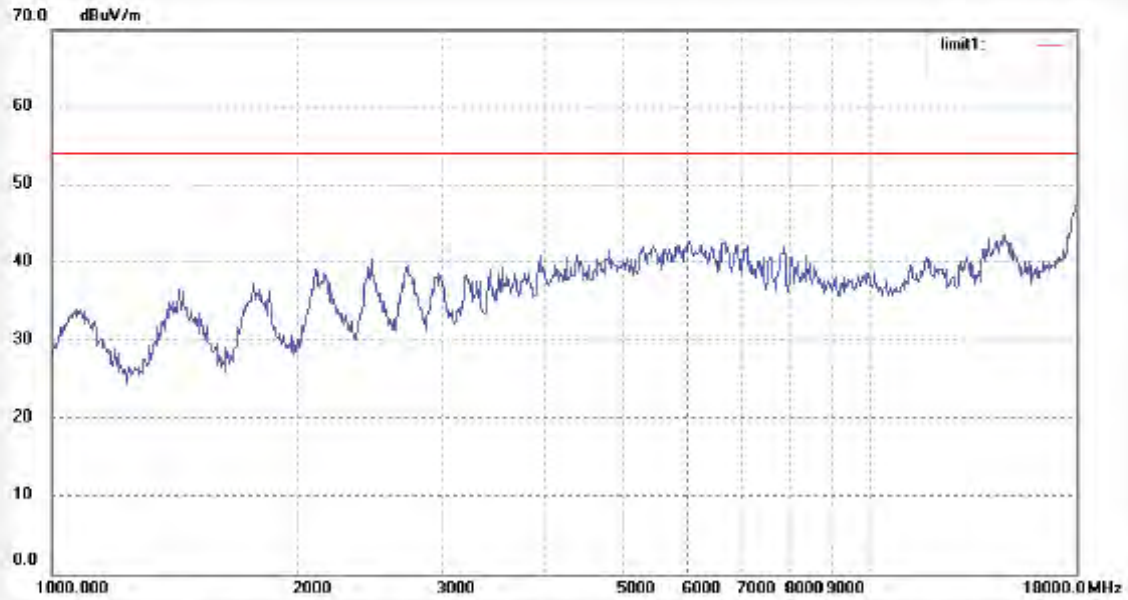
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #628 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:02:45 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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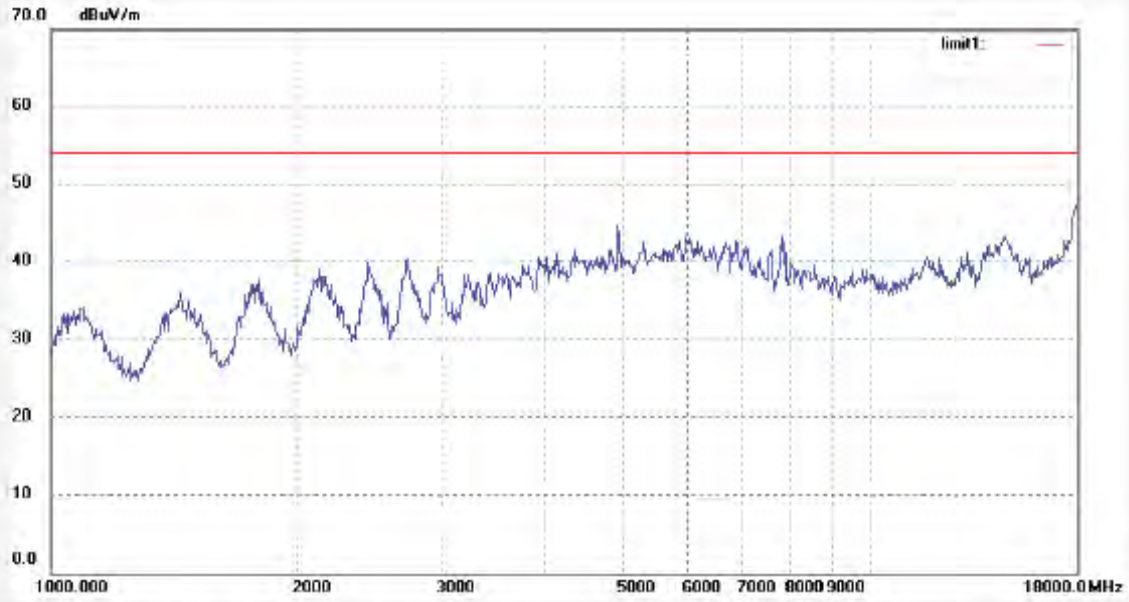
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #627 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:01:23 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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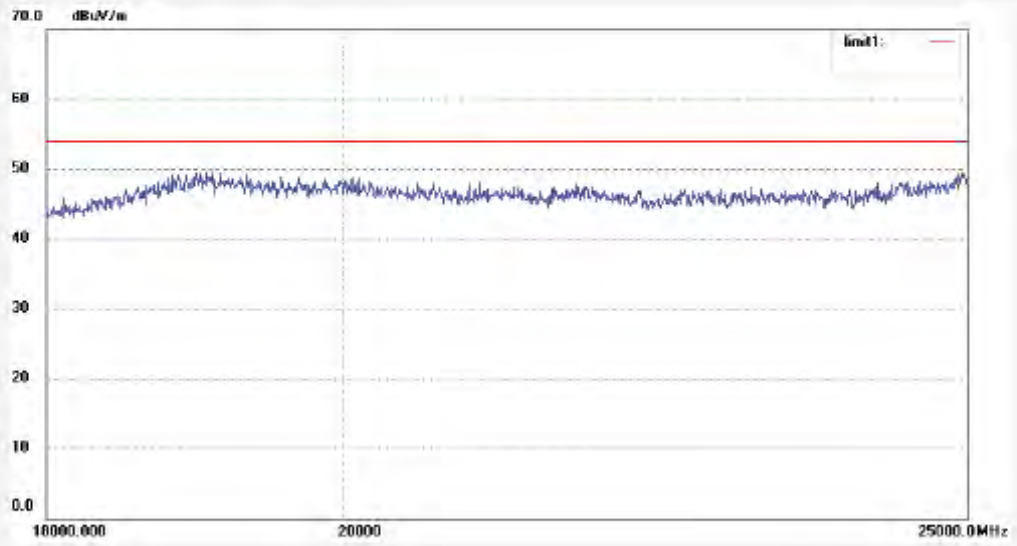
| | |
|---|---|
| Job No.: Bob #1548 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:09:14 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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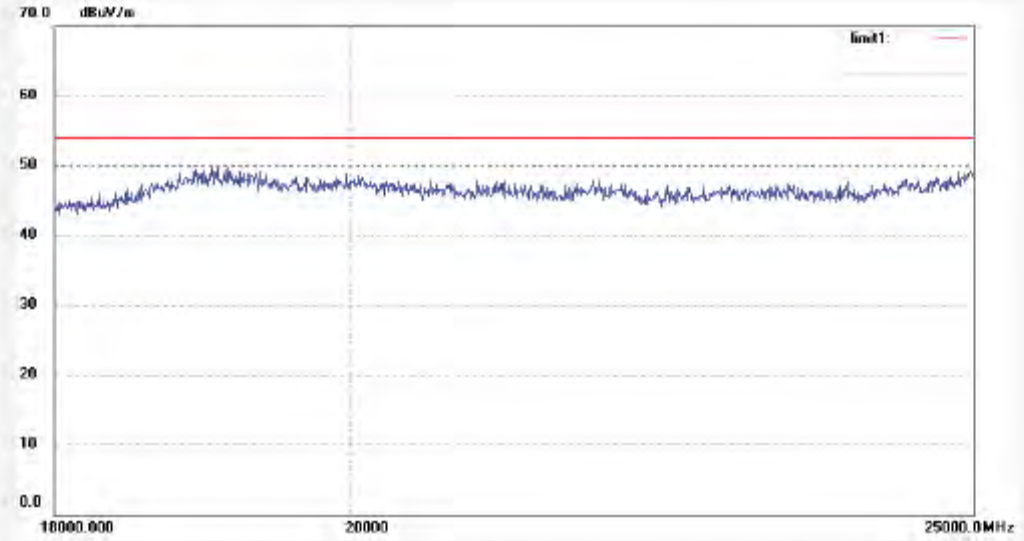
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1547 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:05:40 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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Site: 966 chamber
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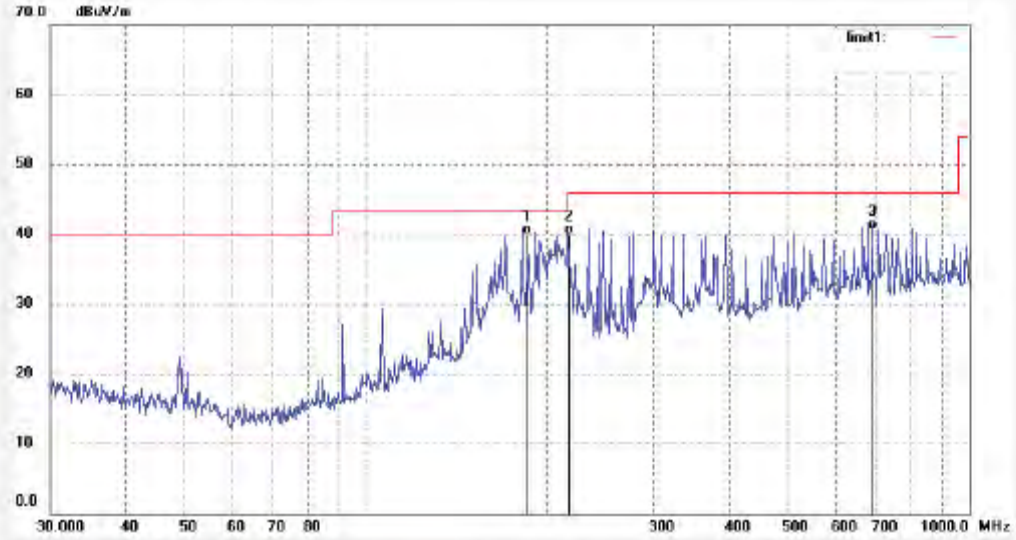
Job No.: Bob #1488
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11 (802.11b)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/35/26
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 183.9379 | 24.02 | 15.98 | 40.00 | 43.50 | -3.50 | QP | | | |
| 2 | 218.1194 | 23.35 | 16.63 | 39.98 | 46.00 | -6.02 | QP | | | |
| 3 | 694.4763 | 14.18 | 26.44 | 40.62 | 46.00 | -5.38 | QP | | | |

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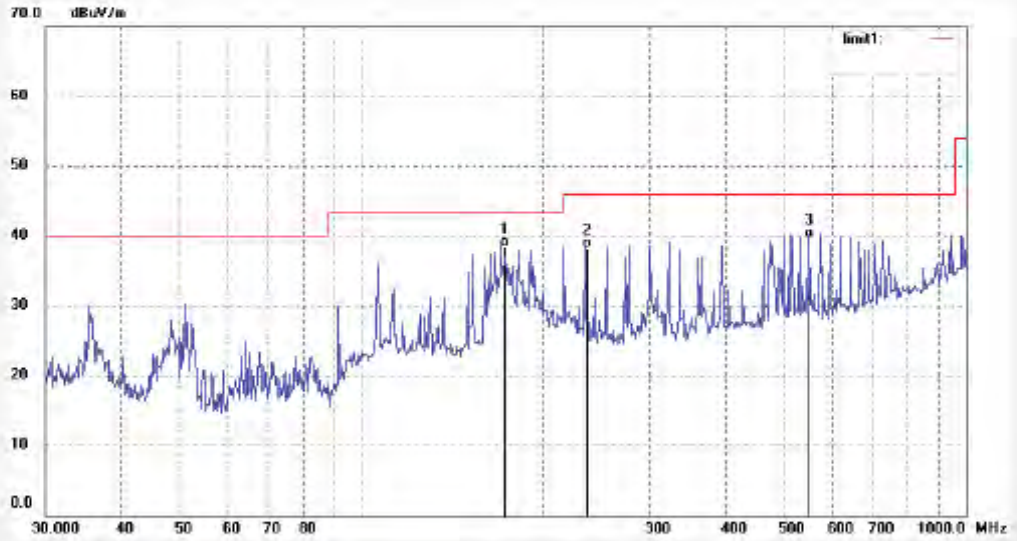
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1489 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 8/35/56 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 172.1887 | 23.26 | 15.17 | 38.43 | 43.50 | -5.07 | QP | | | |
| 2 | 236.3095 | 21.73 | 16.50 | 38.23 | 46.00 | -7.77 | QP | | | |
| 3 | 555.2269 | 14.27 | 25.33 | 39.60 | 46.00 | -6.40 | QP | | | |

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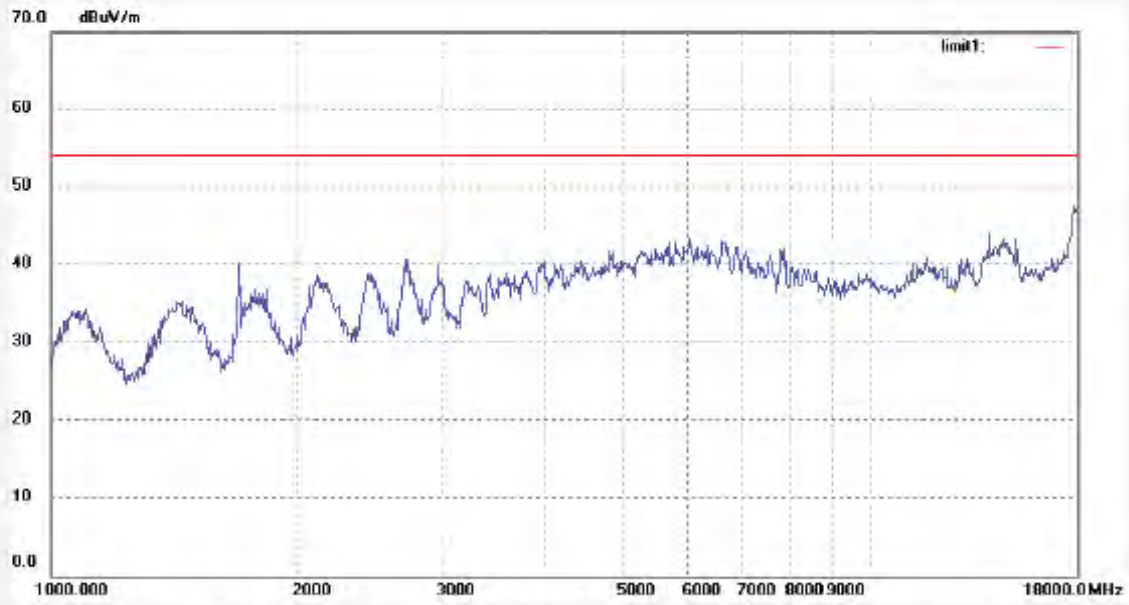
| | |
|---|---|
| Job No.: Bob #629 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:04:06 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11(802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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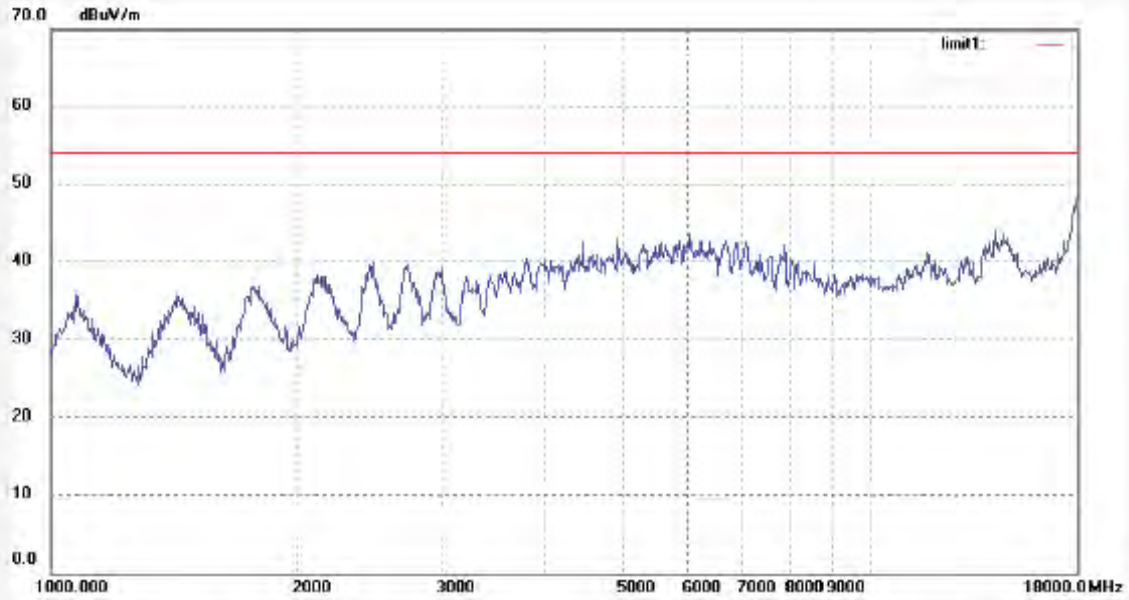
| | |
|---|---|
| Job No.: Bob #630 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:05:28 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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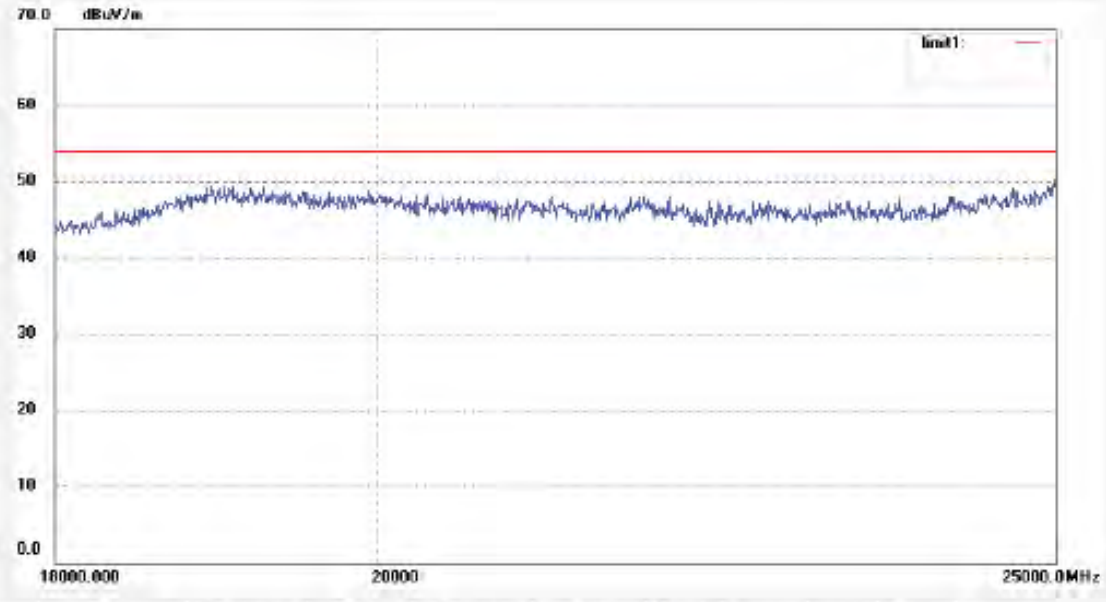
| | |
|---|---|
| Job No.: Bob #1549 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:13:25 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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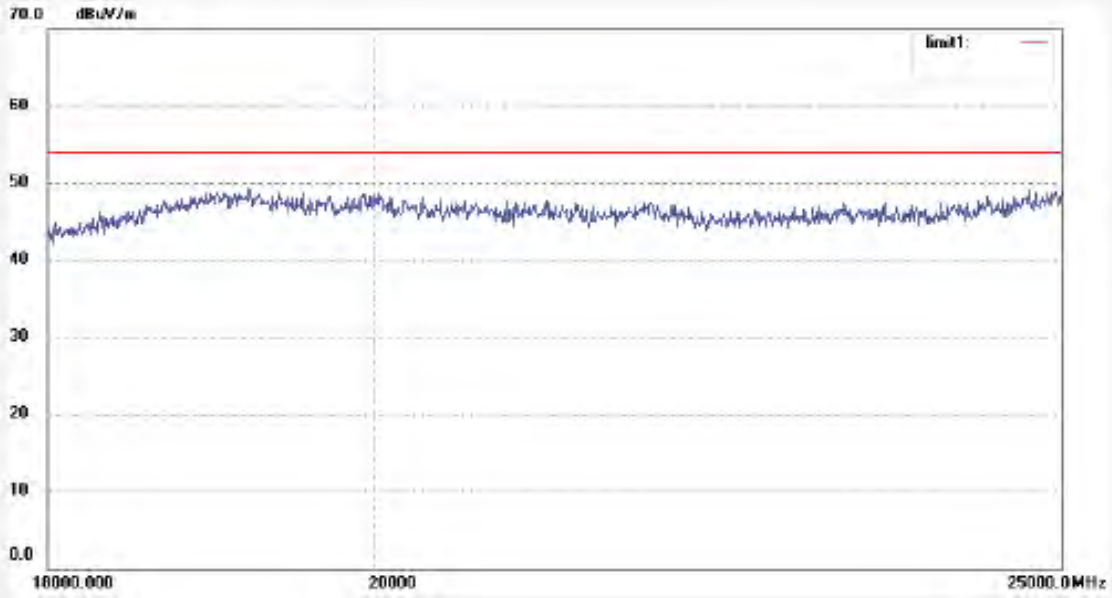
| | |
|---|---|
| Job No.: Bob #1550 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:16:58 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11b) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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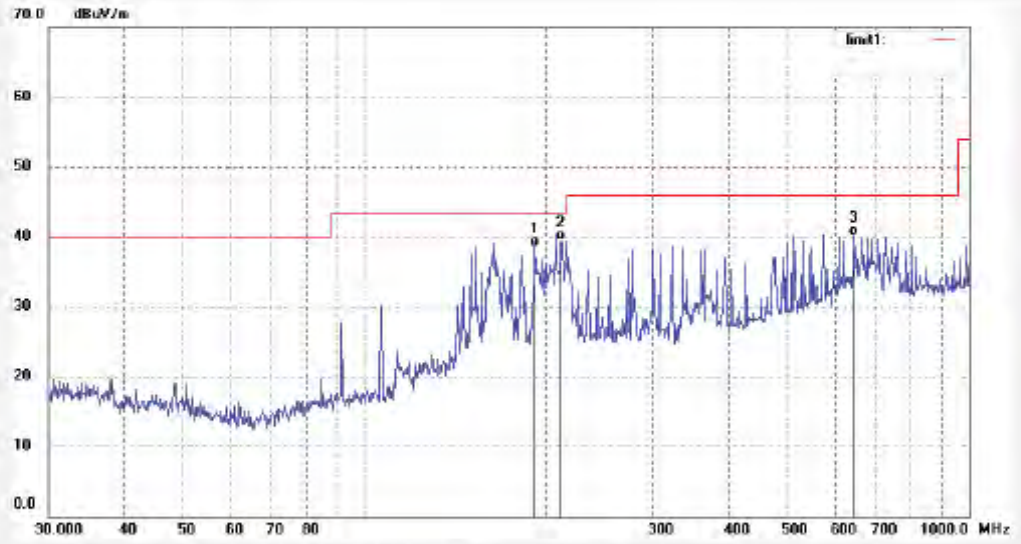
Job No.: Bob #1495
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1 (802.11g)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/39/44
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 192.7838 | 22.55 | 16.04 | 38.59 | 43.50 | -4.91 | QP | | | |
| 2 | 209.9259 | 23.15 | 16.35 | 39.50 | 43.50 | -4.00 | QP | | | |
| 3 | 646.4529 | 14.11 | 26.06 | 40.17 | 46.00 | -5.83 | QP | | | |

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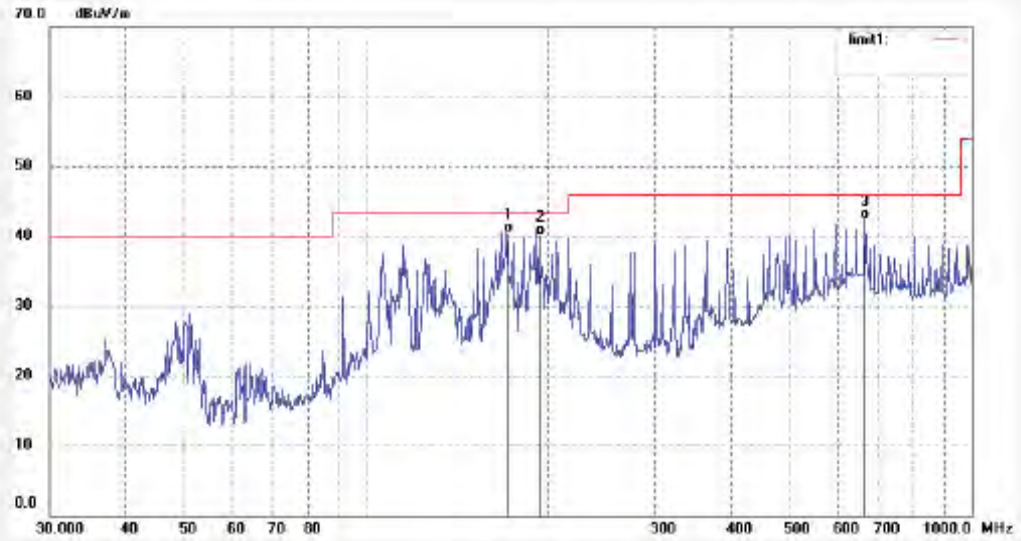
Job No.: Bob #1494
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1 (802.11g)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/39/04
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 172.7878 | 25.16 | 15.30 | 40.46 | 43.50 | -3.04 | QP | | | |
| 2 | 193.7838 | 24.15 | 16.10 | 40.25 | 43.50 | -3.25 | QP | | | |
| 3 | 669.6023 | 16.23 | 26.13 | 42.36 | 46.00 | -3.64 | QP | | | |

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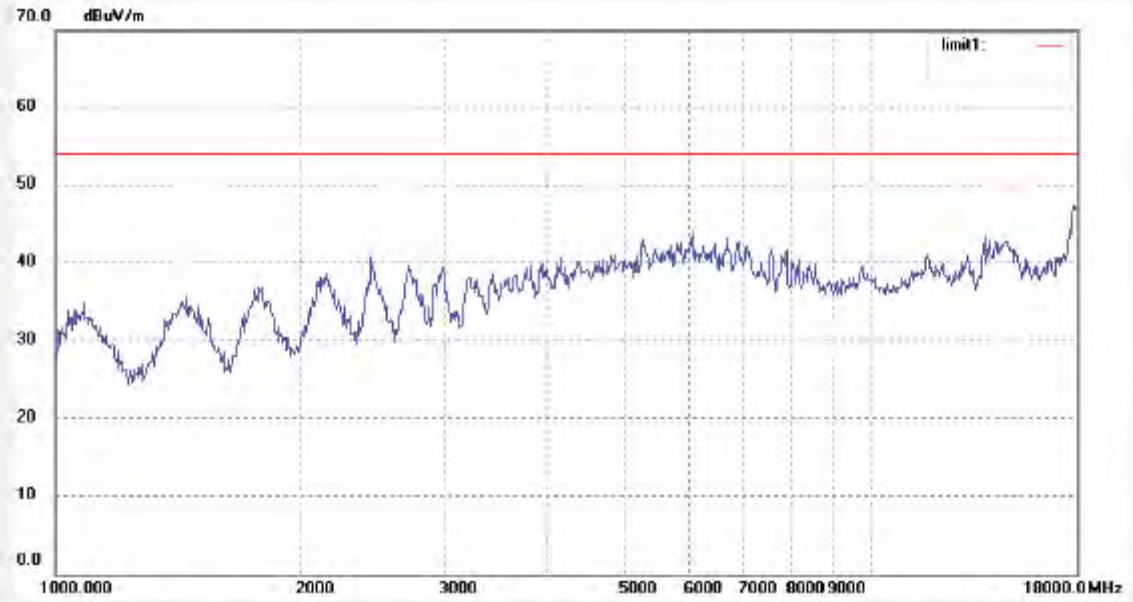
| | |
|---|---|
| Job No.: Bob #632 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:08:29 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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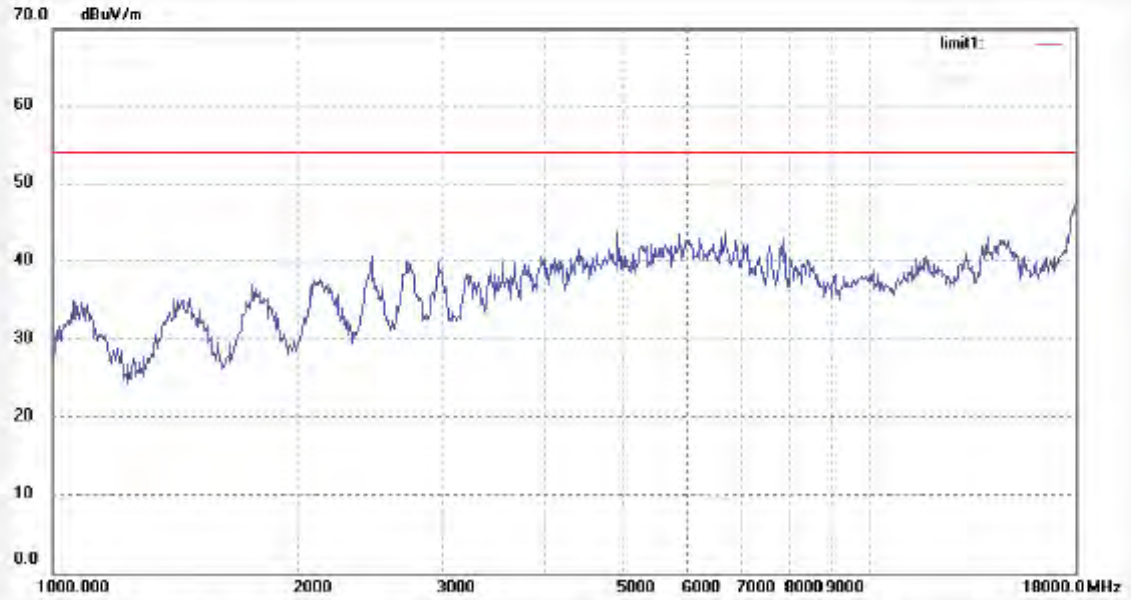
| | |
|---|---|
| Job No.: Bob #631 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:07:02 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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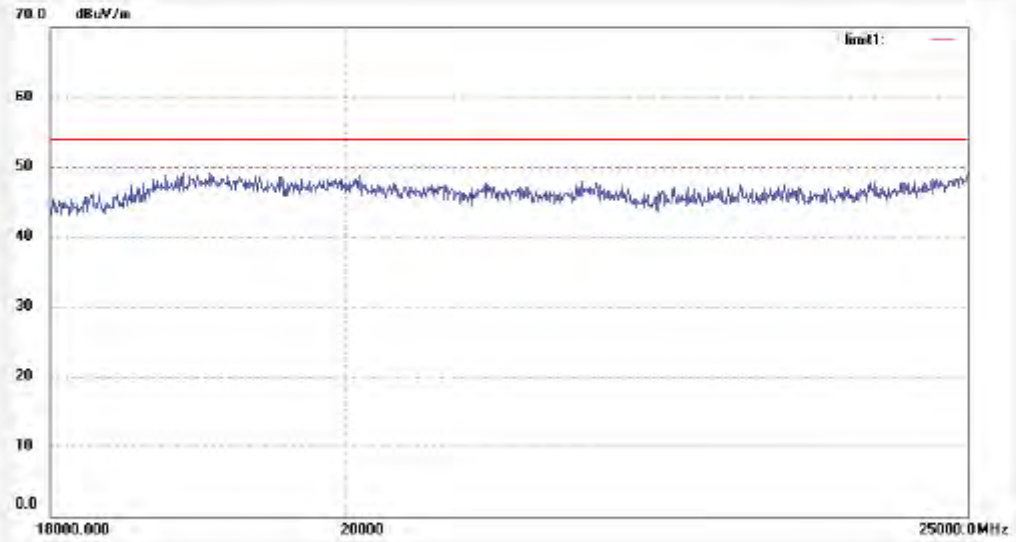
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1552 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:26:21 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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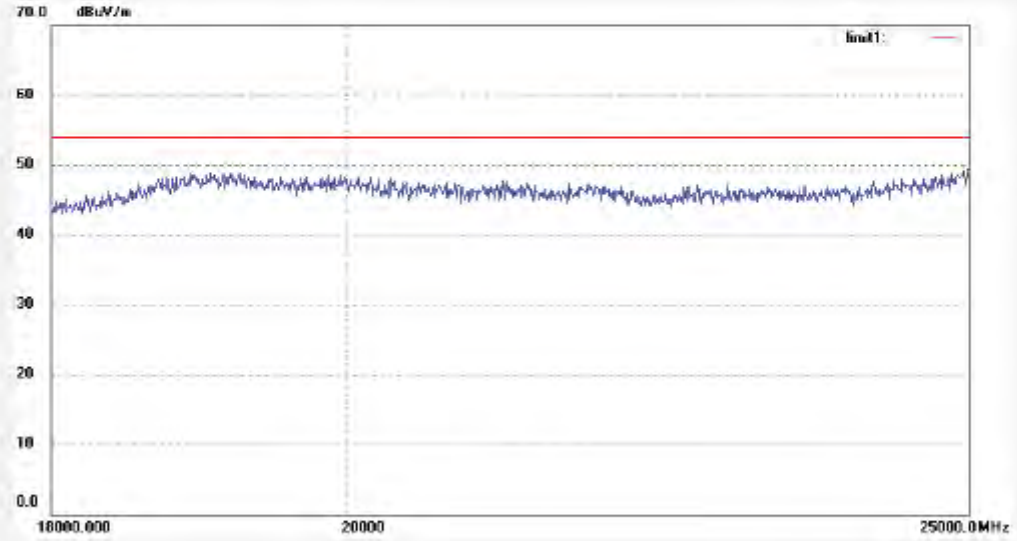
| | |
|---|---|
| Job No.: Bob #1551 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:22:46 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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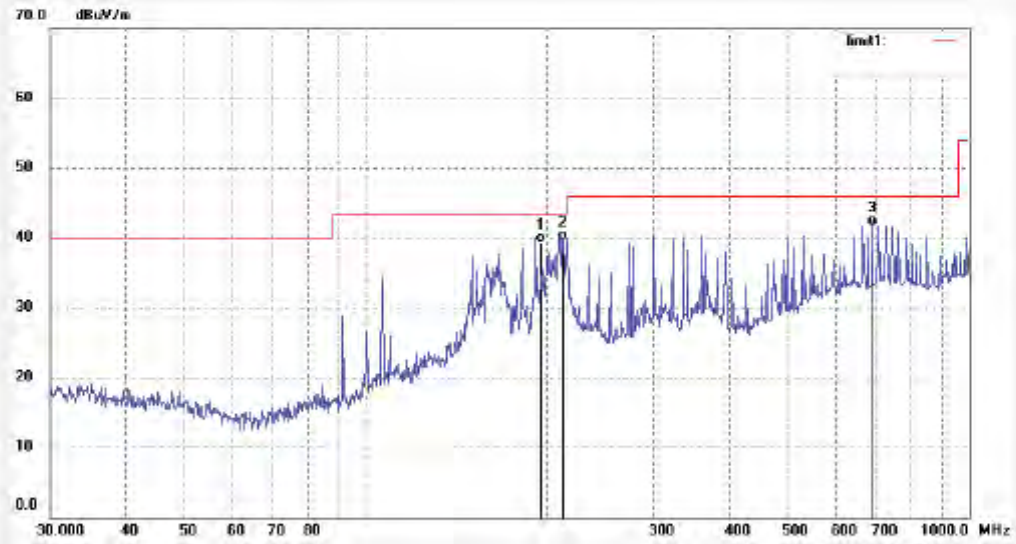
| | |
|---|---|
| Job No.: Bob #1492 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 8/38/06 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 193.2838 | 23.22 | 16.04 | 39.26 | 43.50 | -4.24 | QP | | | |
| 2 | 211.0924 | 23.25 | 16.39 | 39.64 | 43.50 | -3.86 | QP | | | |
| 3 | 693.5763 | 15.23 | 26.43 | 41.66 | 46.00 | -4.34 | QP | | | |

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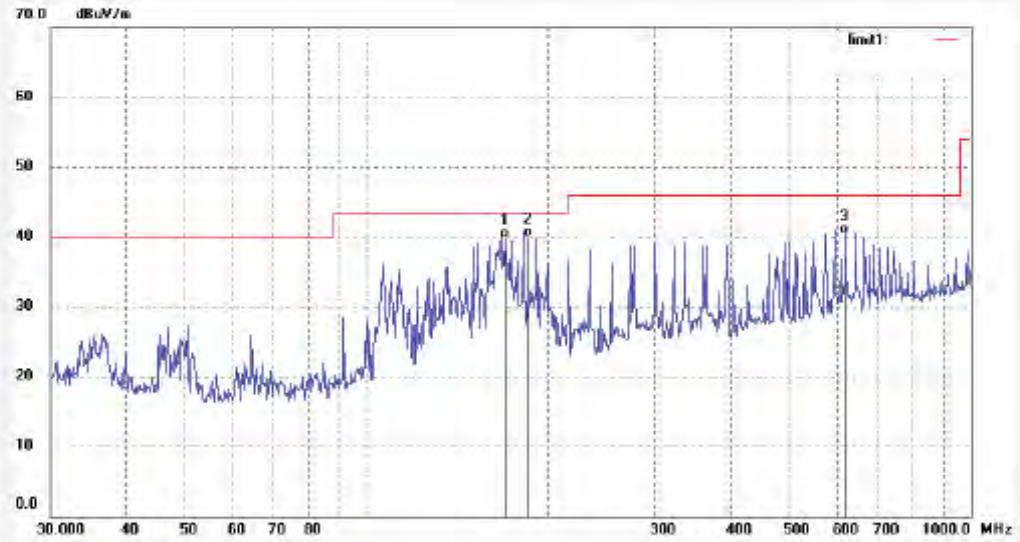
| | |
|---|---|
| Job No.: Bob #1493 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 8/38/39 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 169.2247 | 25.08 | 14.71 | 39.79 | 43.50 | -3.71 | QP | | | |
| 2 | 183.2379 | 24.16 | 15.87 | 40.03 | 43.50 | -3.47 | QP | | | |
| 3 | 622.2167 | 14.24 | 26.06 | 40.30 | 46.00 | -5.70 | QP | | | |

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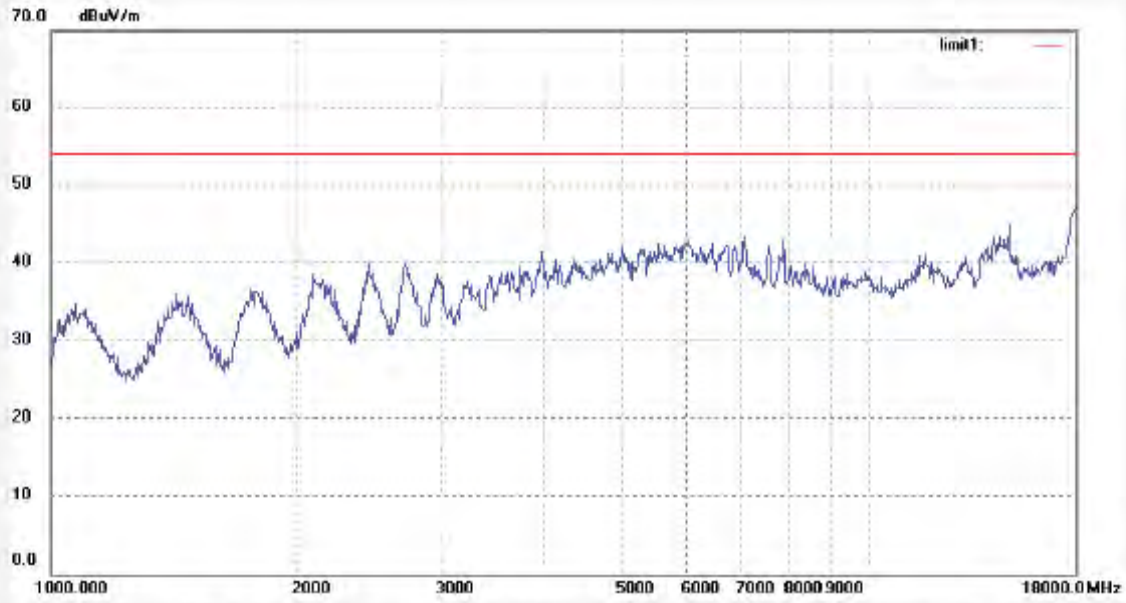
| | |
|---|---|
| Job No.: Bob #633 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:09:55 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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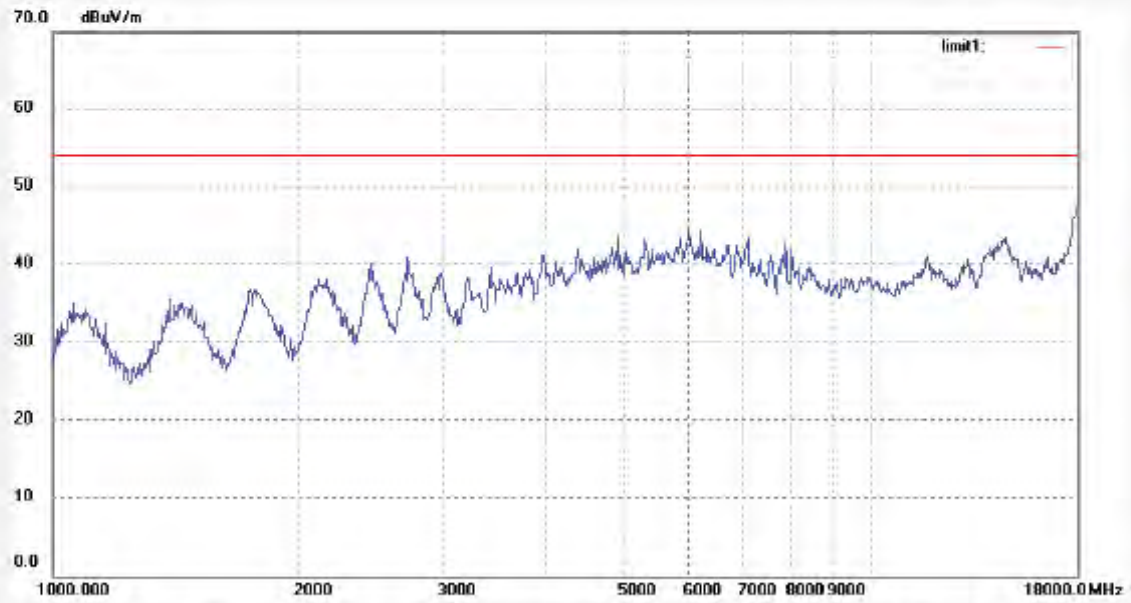
| | |
|---|---|
| Job No.: Bob #634 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:11:15 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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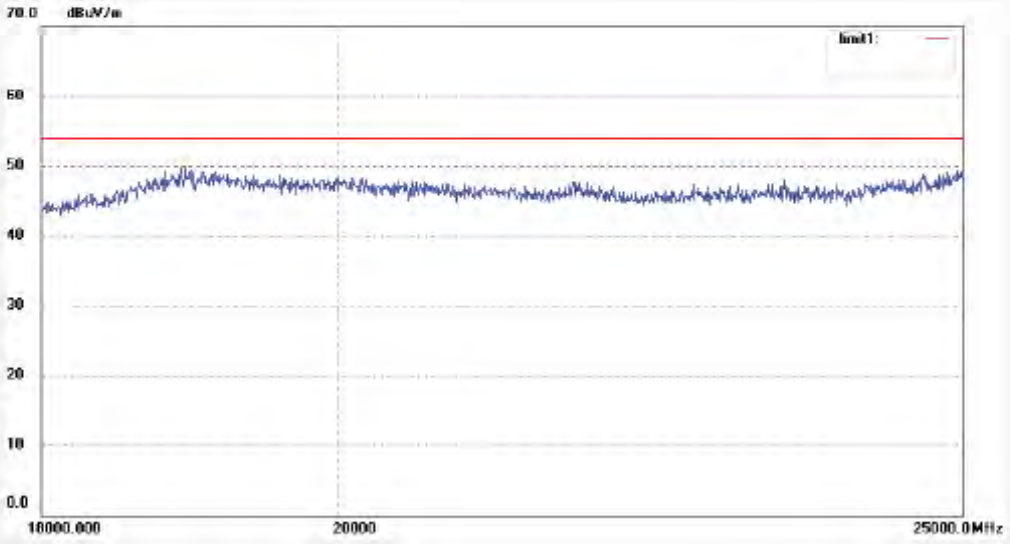
| | |
|---|---|
| Job No.: Bob #1553 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:30:38 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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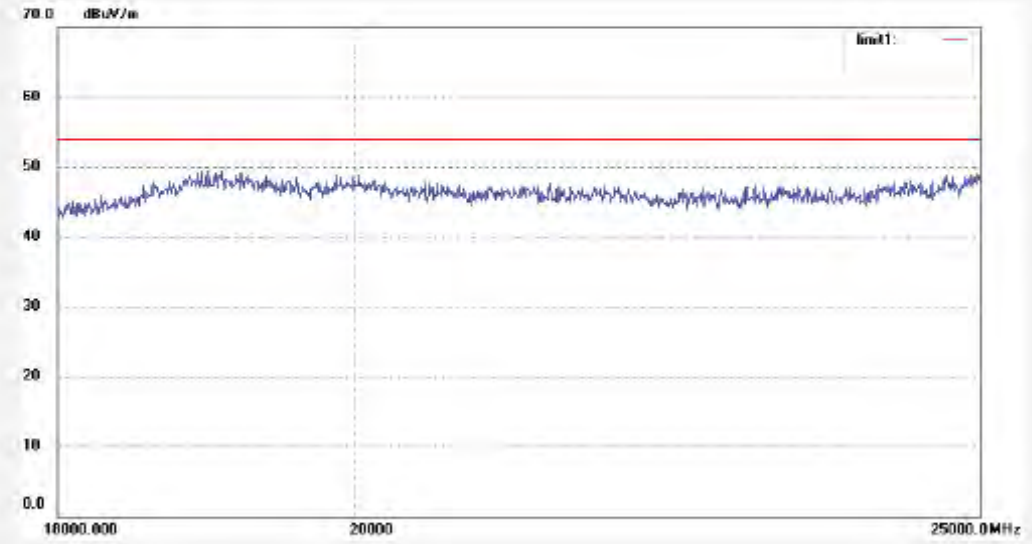
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1554 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:34:11 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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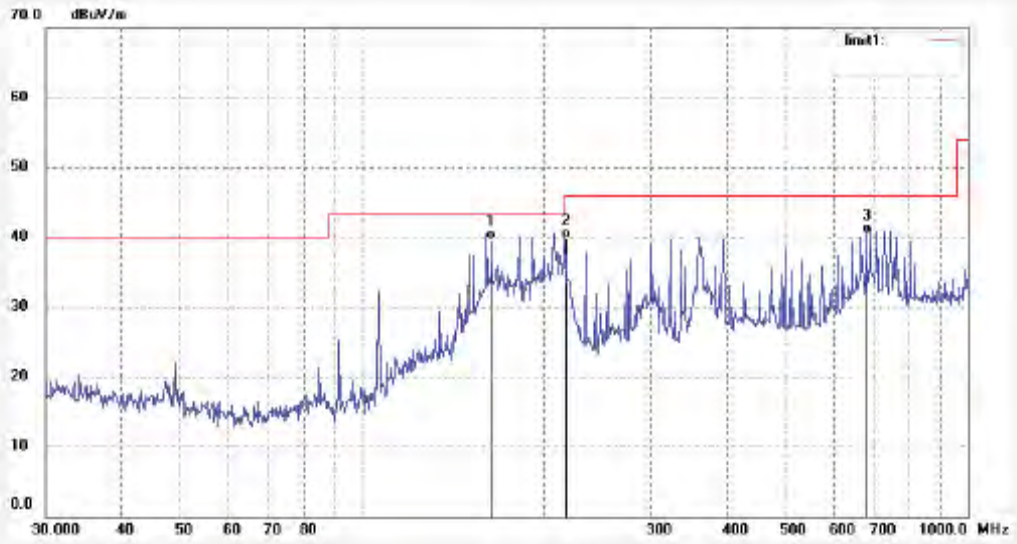
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1491
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11 (802.11g)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/37/27
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 163.3206 | 25.03 | 14.64 | 39.67 | 43.50 | -3.83 | QP | | | |
| 2 | 218.1194 | 23.10 | 16.63 | 39.73 | 46.00 | -6.27 | QP | | | |
| 3 | 683.8260 | 14.17 | 26.36 | 40.53 | 46.00 | -5.47 | QP | | | |

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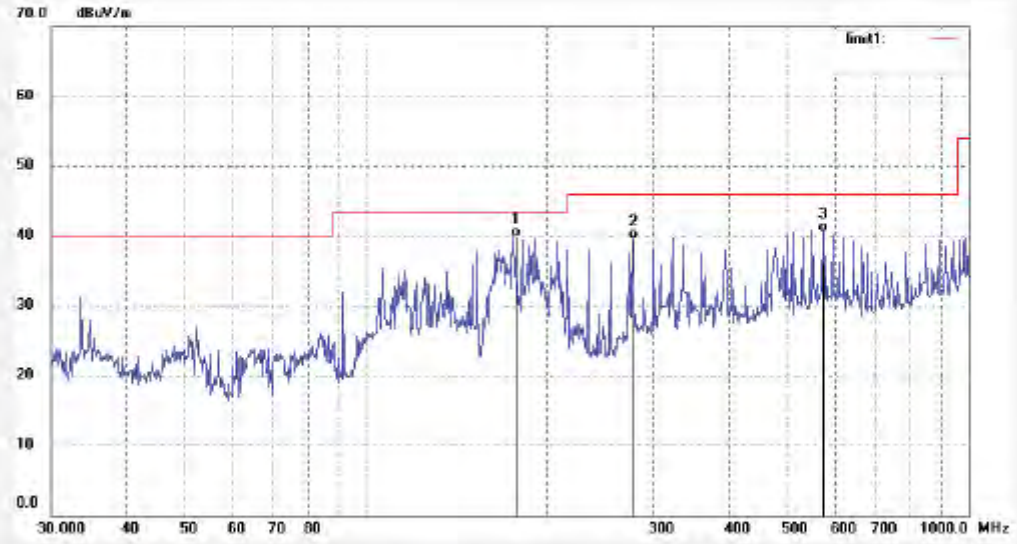
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1490
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11 (802.11g)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/36/41
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 178.2744 | 24.02 | 15.77 | 39.79 | 43.50 | -3.71 | QP | | | |
| 2 | 279.3546 | 21.17 | 18.28 | 39.45 | 46.00 | -6.55 | QP | | | |
| 3 | 576.9882 | 15.09 | 25.38 | 40.47 | 46.00 | -5.53 | QP | | | |

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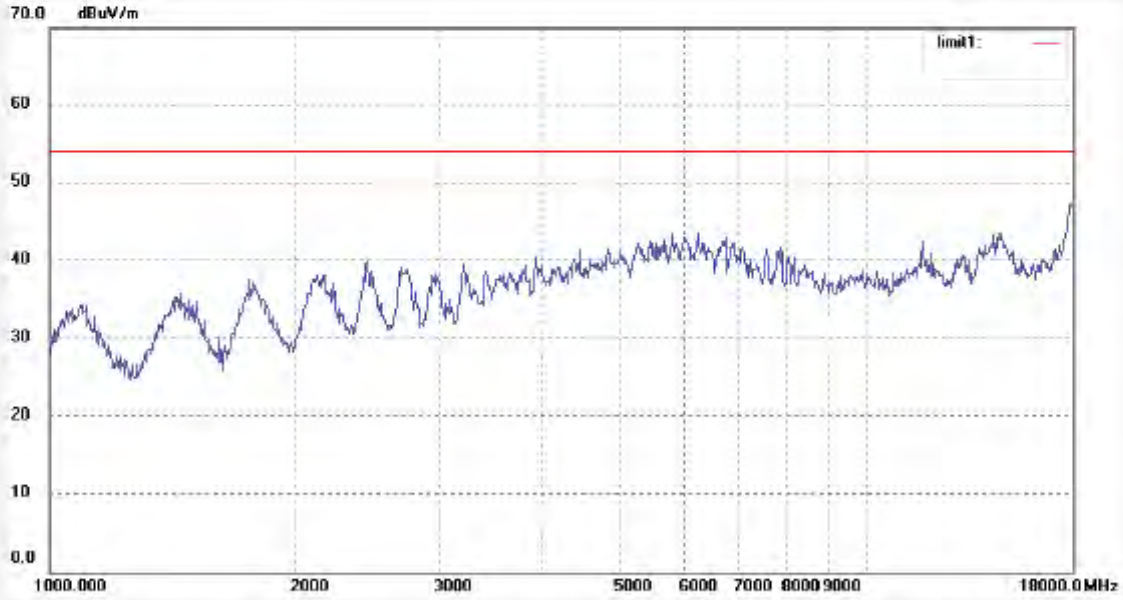
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #636 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:14:05 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11(802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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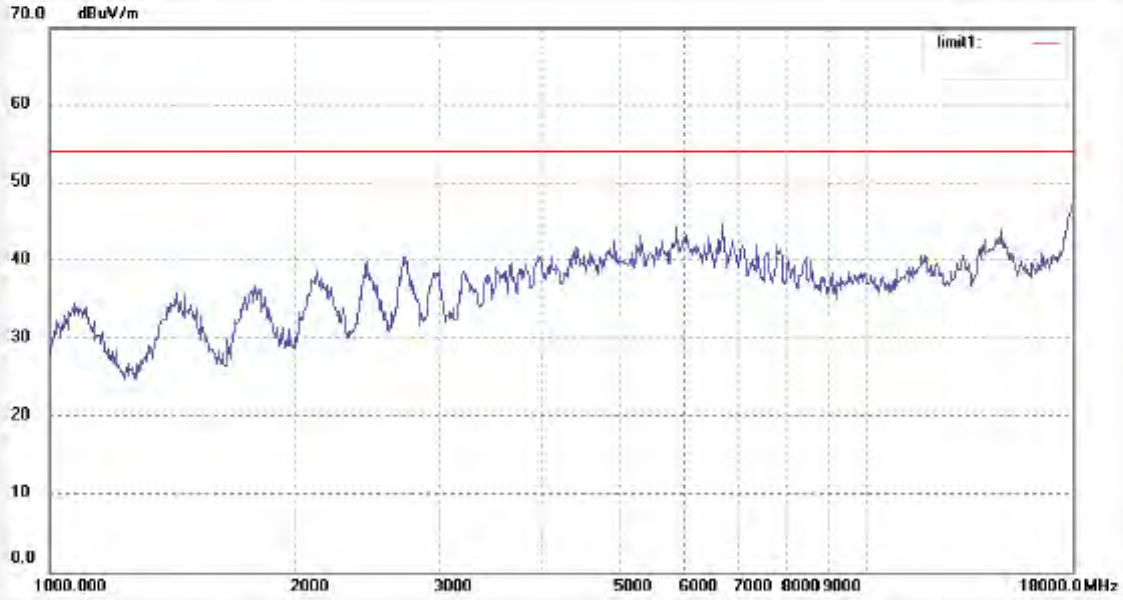
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #635 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:12:46 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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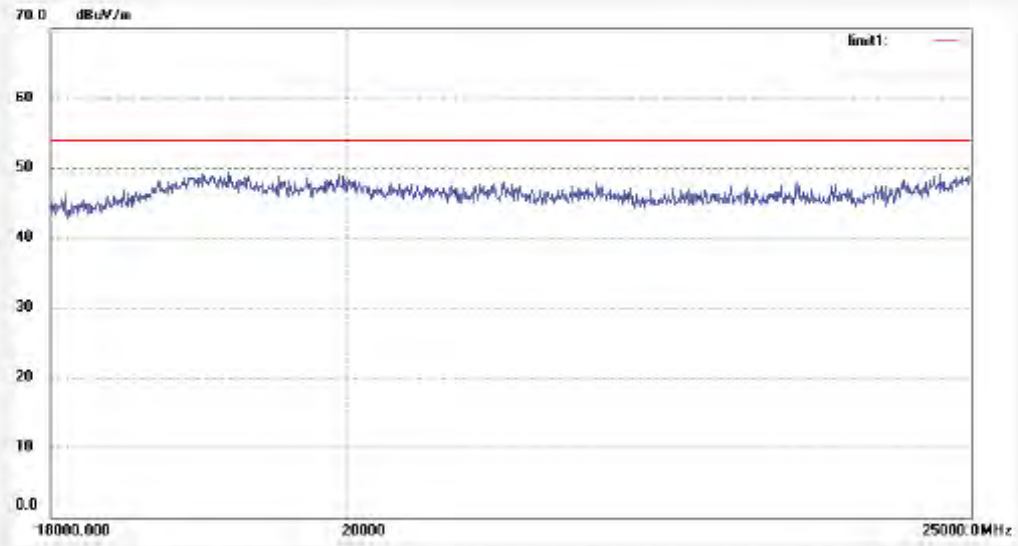
| | |
|---|---|
| Job No.: Bob #1556 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:41:59 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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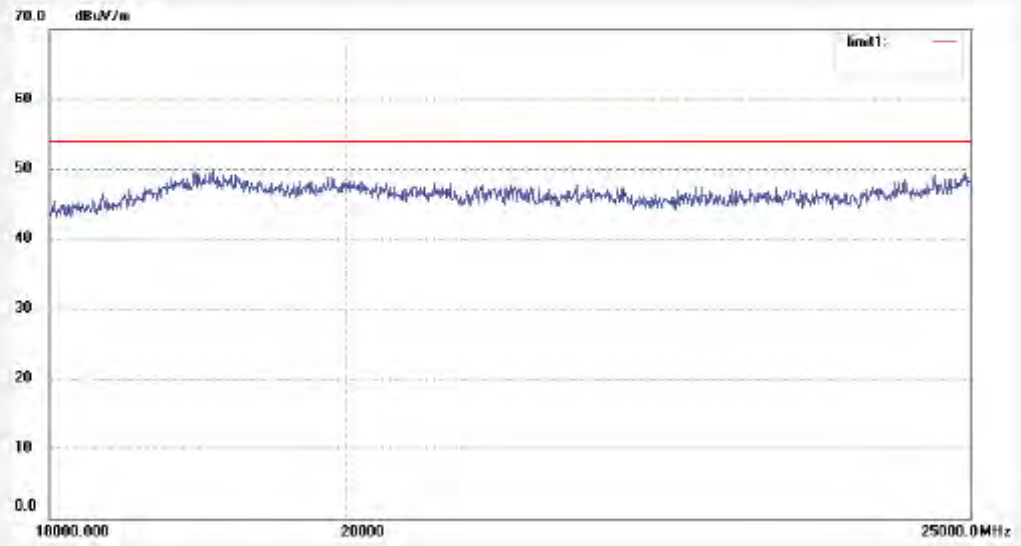
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1555 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 25 C / 50 % | Time: 15:38:24 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11g) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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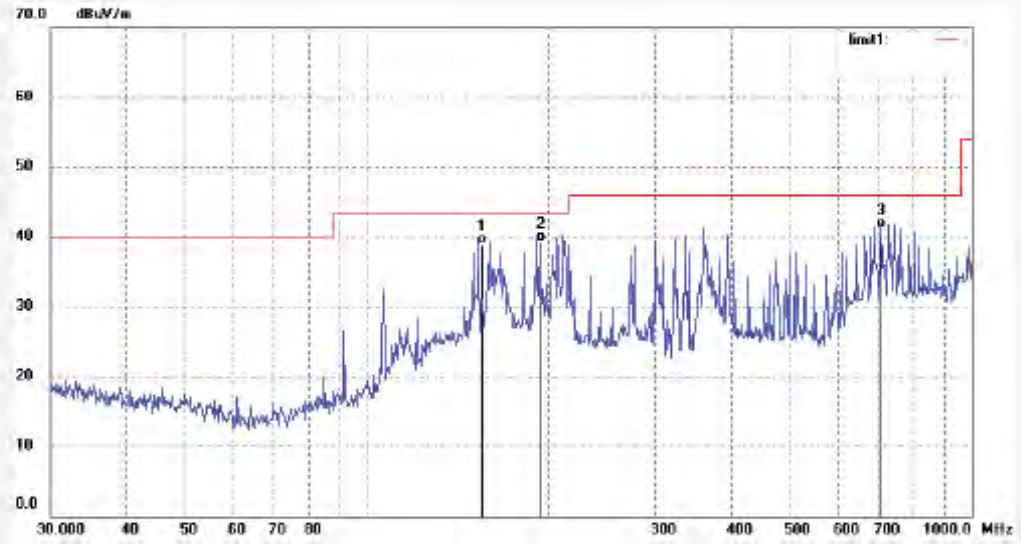
Fax:+86-0755-26503396

Job No.: Bob #1498
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1 (802.11n)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/40/36
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 154.6254 | 24.38 | 14.56 | 38.94 | 43.50 | -4.56 | QP | | | |
| 2 | 193.7838 | 23.21 | 16.03 | 39.24 | 43.50 | -4.26 | QP | | | |
| 3 | 710.6941 | 14.32 | 26.83 | 41.15 | 46.00 | -4.85 | QP | | | |

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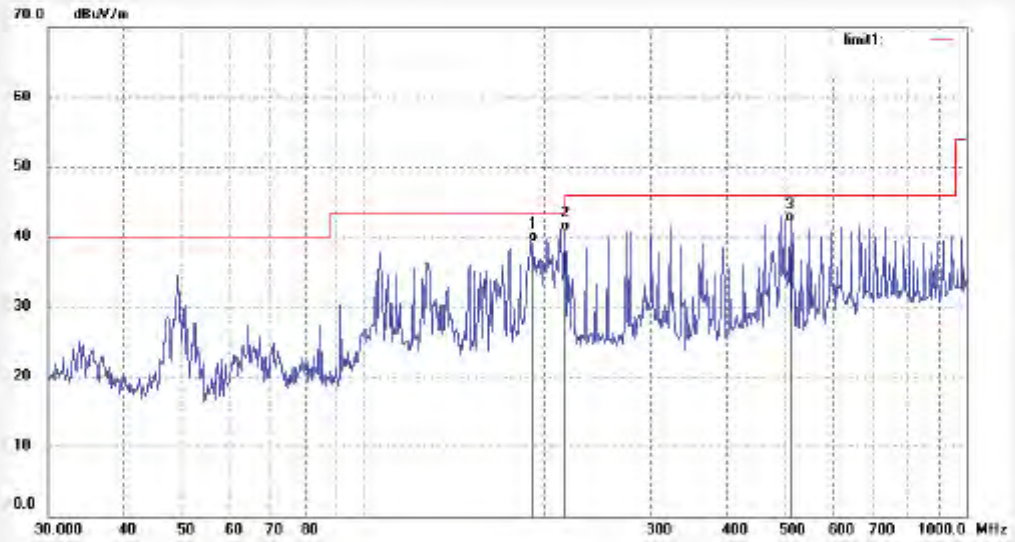
Fax:+86-0755-26503396

Job No.: Bob #1497
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1 (802.11n)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/41/24
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 191.7732 | 23.27 | 16.06 | 39.33 | 43.50 | -4.17 | QP | | | |
| 2 | 214.3557 | 24.28 | 16.51 | 40.79 | 43.50 | -2.71 | QP | | | |
| 3 | 513.1487 | 18.00 | 24.09 | 42.09 | 46.00 | -3.91 | QP | | | |

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Site: 966 chamber
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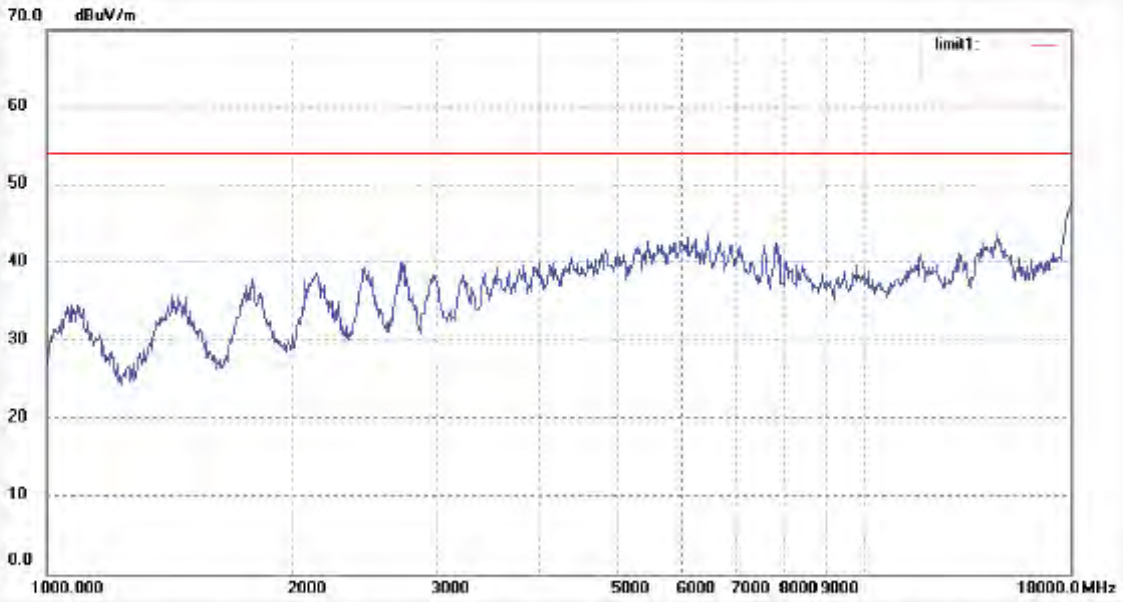
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #637 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:15:43 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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Site: 966 chamber
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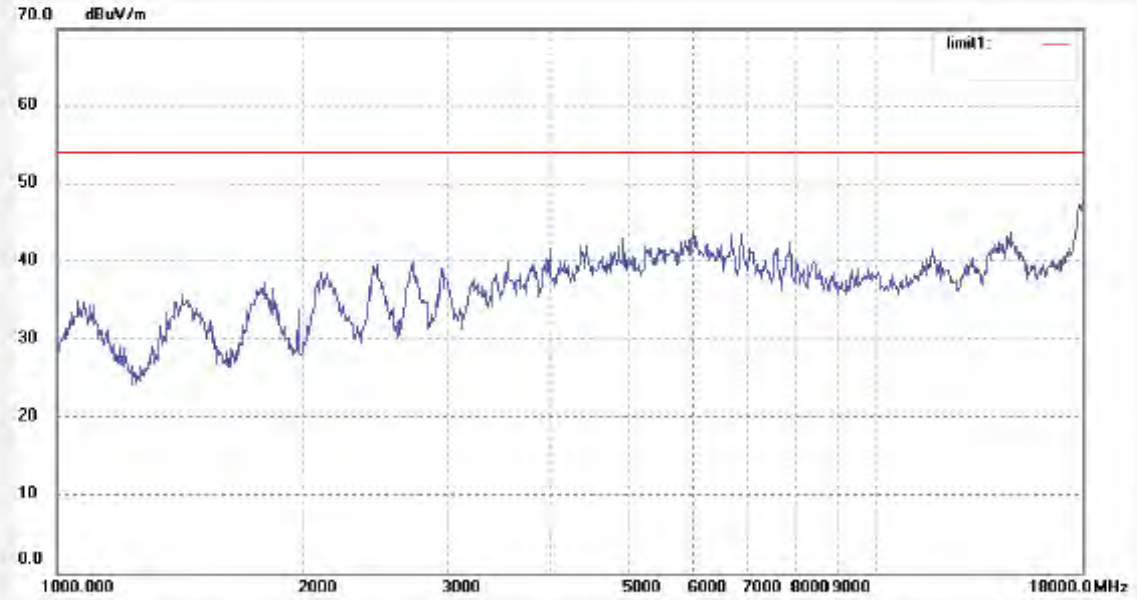
Fax:+86-0755-2650339

| | |
|---|---|
| Job No.: Bob #638 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:17:01 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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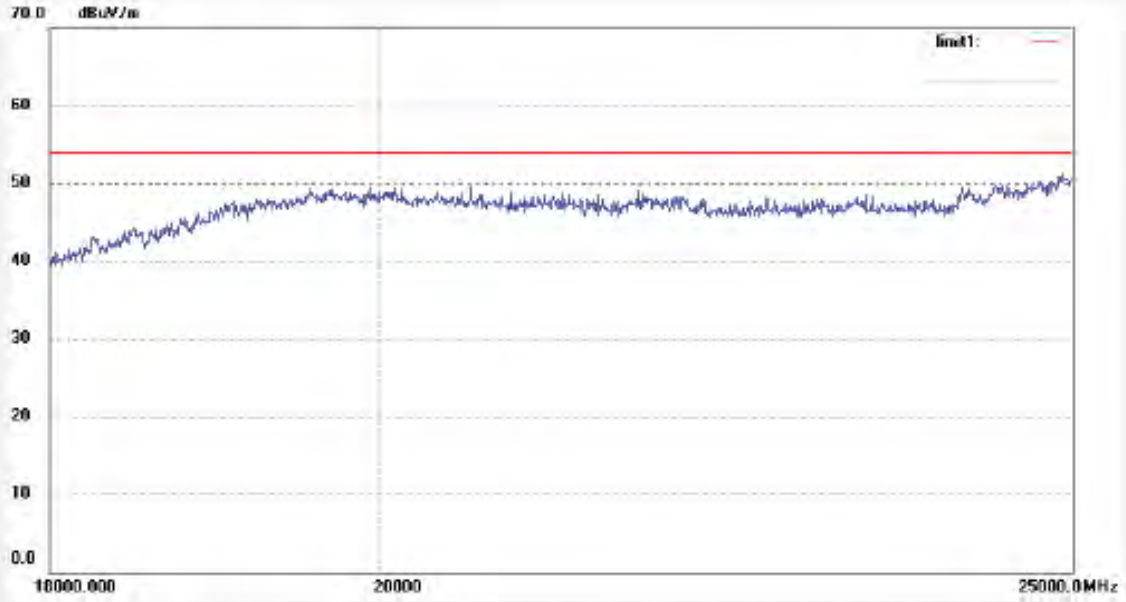
| | |
|---|---|
| Job No.: Bob #1562 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 15:55:57 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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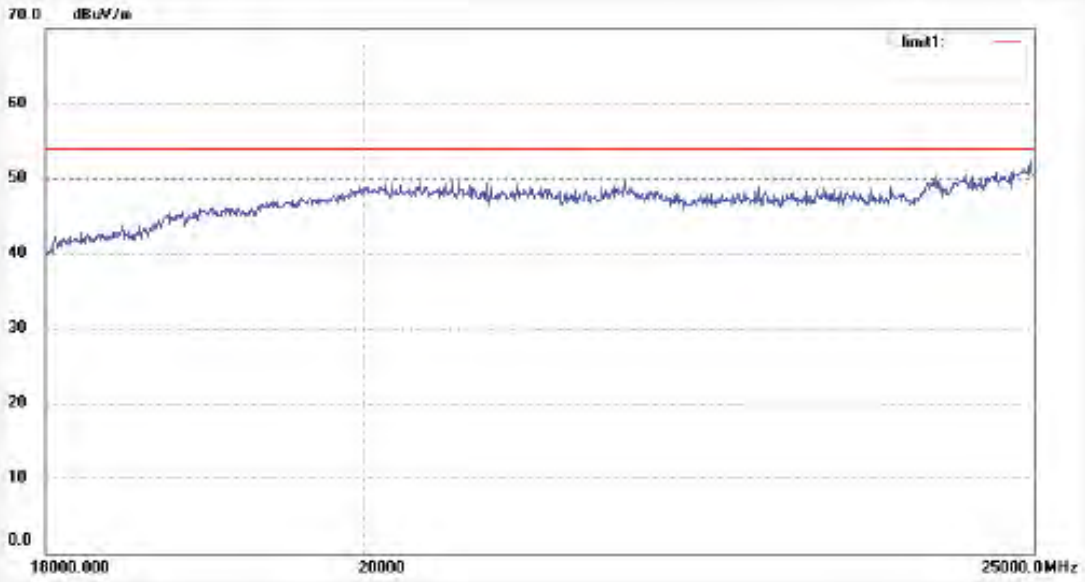
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #1563 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 15:57:43 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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Site: 966 chamber
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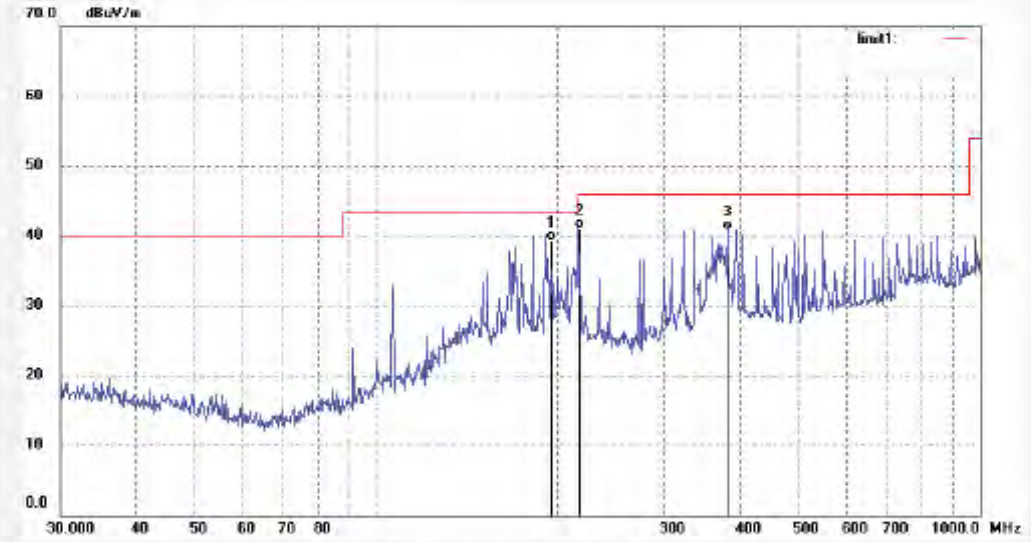
Fax:+86-0755-26503396

Job No.: Bob #1499
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 6 (802.11n)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/43/12
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 193.7838 | 23.17 | 16.03 | 39.20 | 43.50 | -4.30 | QP | | | |
| 2 | 218.1194 | 24.35 | 16.63 | 40.98 | 46.00 | -5.02 | QP | | | |
| 3 | 385.1960 | 19.22 | 21.72 | 40.94 | 46.00 | -5.06 | QP | | | |

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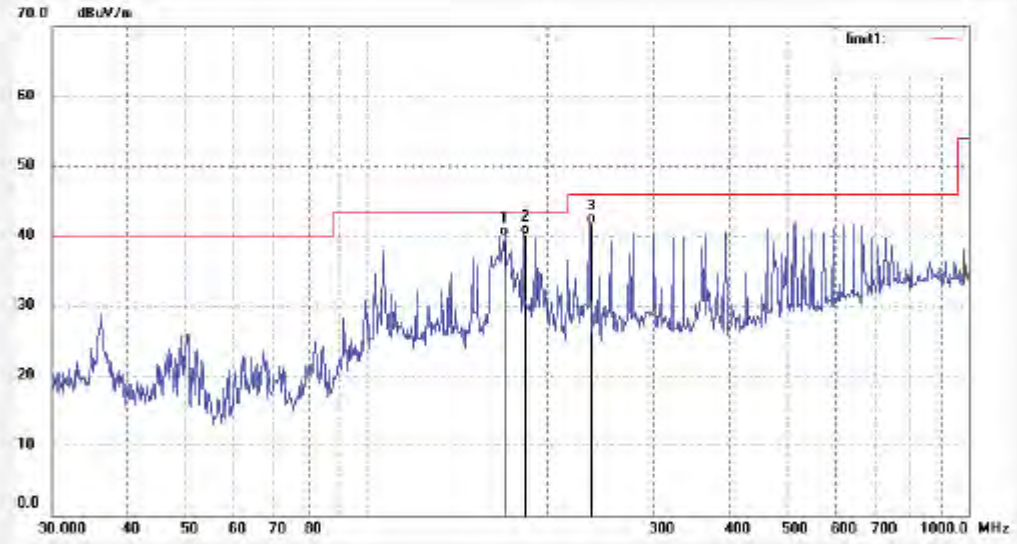
Job No.: Bob #1498
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 6 (802.11n)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/41/47
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 170.5919 | 25.11 | 14.84 | 39.95 | 43.50 | -3.55 | QP | | | |
| 2 | 183.9379 | 24.24 | 15.90 | 40.14 | 43.50 | -3.36 | QP | | | |
| 3 | 236.3095 | 25.16 | 16.50 | 41.66 | 46.00 | -4.34 | QP | | | |

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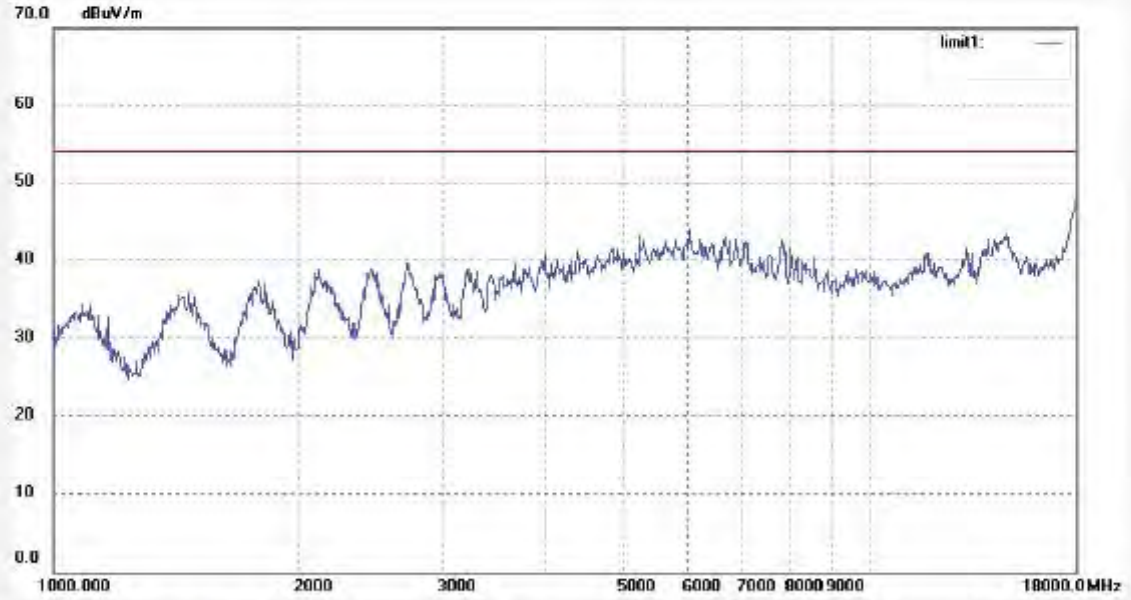
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #640 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:20:01 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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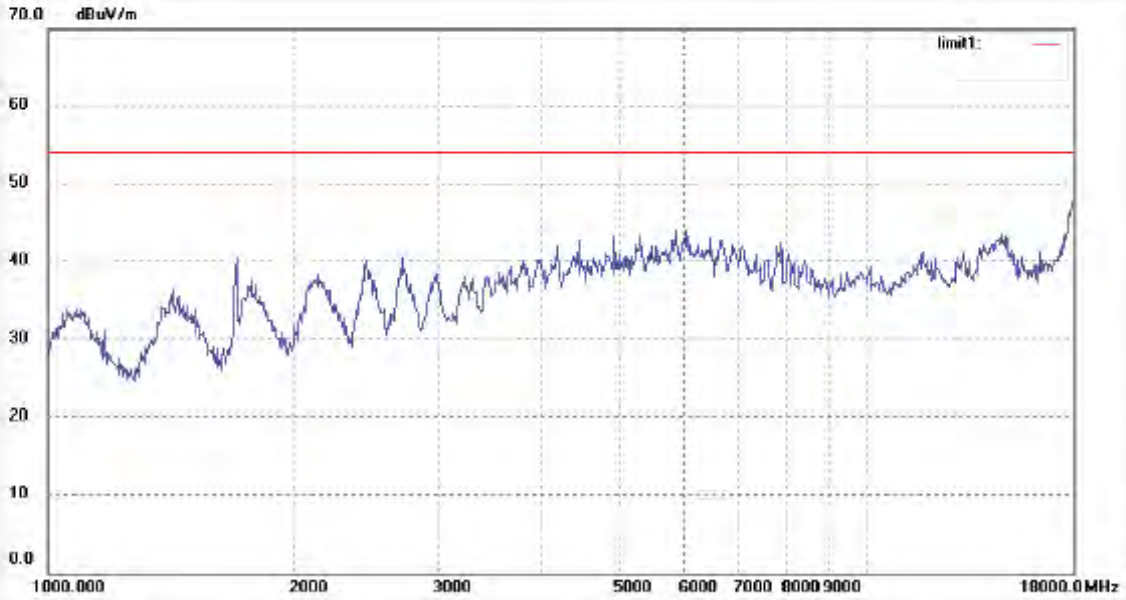
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|---|---|
| Job No.: Bob #639 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:18:48 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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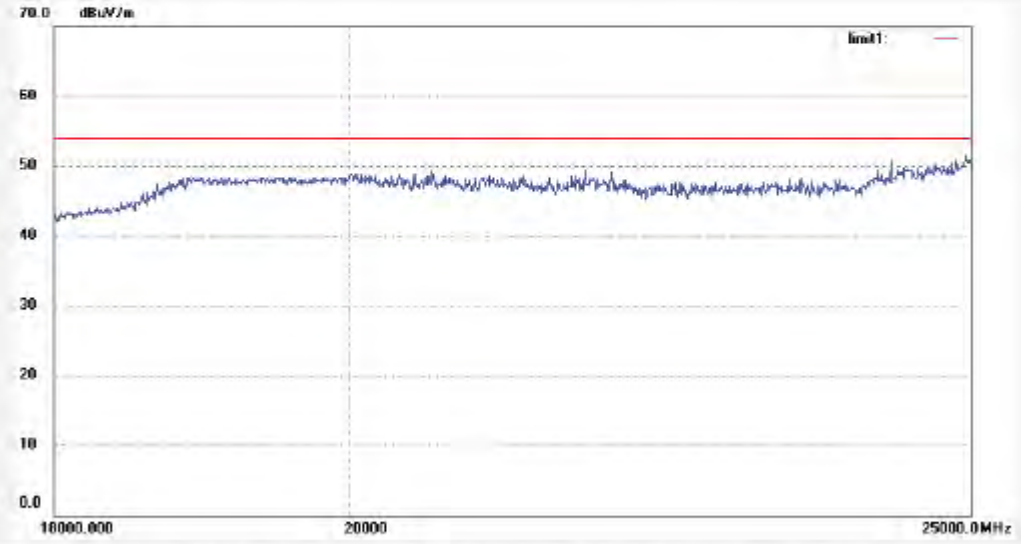
| | |
|---|---|
| Job No.: Bob #1561 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 15:53:01 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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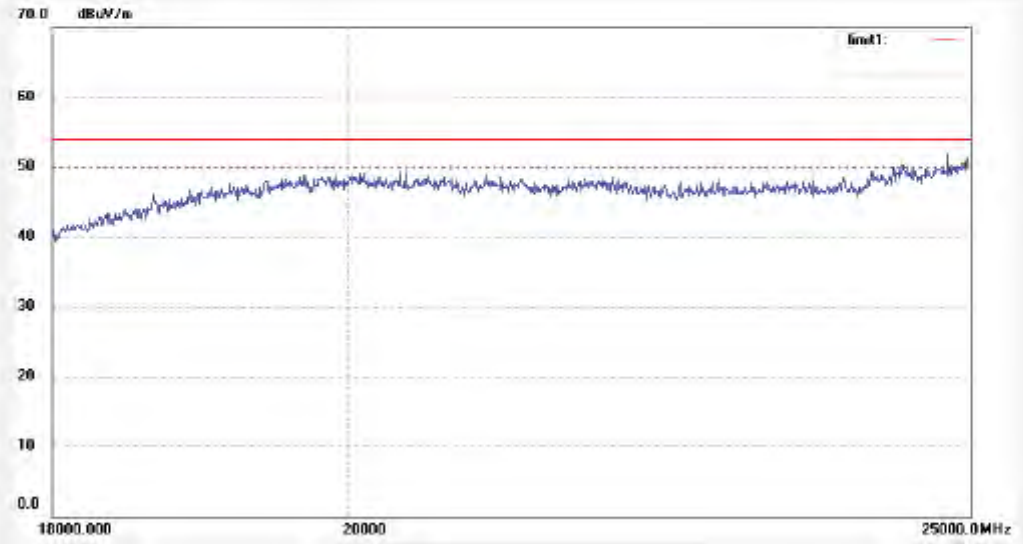
| | |
|---|---|
| Job No.: Bob #1560 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 15:51:02 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 6 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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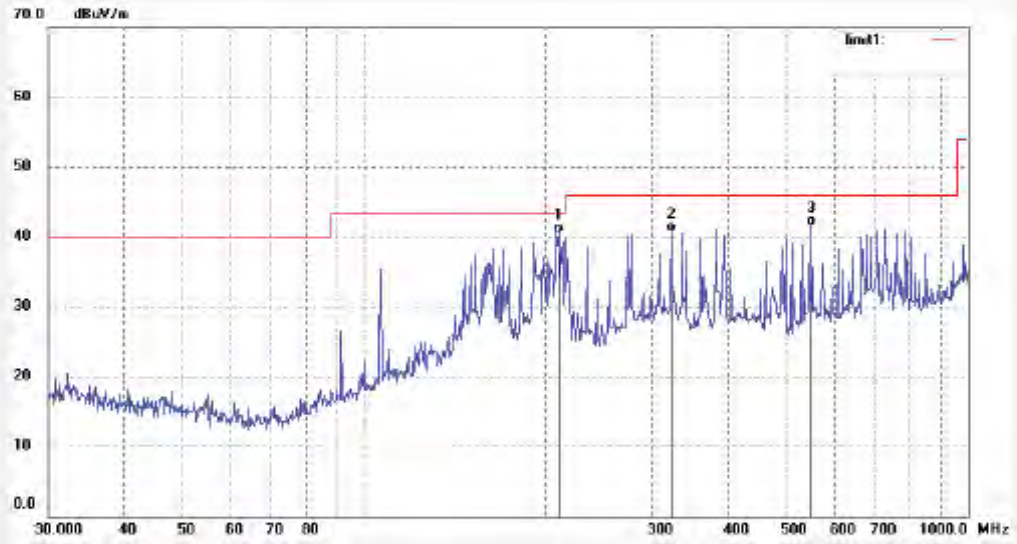
| | |
|---|---|
| Job No.: Bob #1500 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 8/43/35 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 11 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 210.6579 | 24.10 | 16.37 | 40.47 | 43.50 | -3.03 | QP | | | |
| 2 | 324.5896 | 21.14 | 19.53 | 40.67 | 46.00 | -5.33 | QP | | | |
| 3 | 554.2269 | 16.20 | 25.32 | 41.52 | 46.00 | -4.48 | QP | | | |

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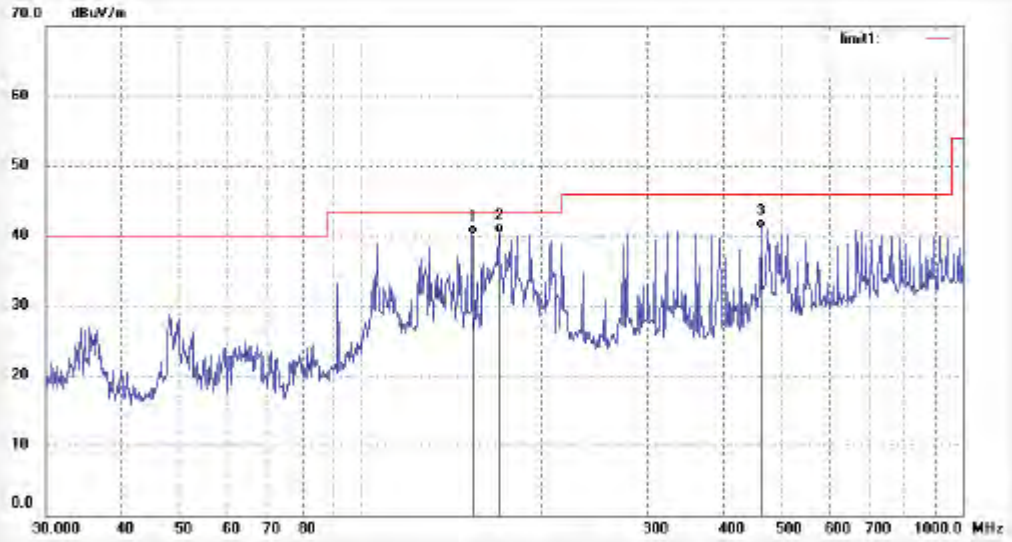
Job No.: Bob #1501
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.( C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11 (802.11n)
Model: GN32
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/01/18
Time: 8/44/12
Engineer Signature: Bob
Distance: 3m

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 153.9254 | 25.62 | 14.56 | 40.18 | 43.50 | -3.32 | QP | | | |
| 2 | 170.9919 | 25.46 | 14.93 | 40.39 | 43.50 | -3.11 | QP | | | |
| 3 | 465.2561 | 17.57 | 23.43 | 41.00 | 46.00 | -5.00 | QP | | | |

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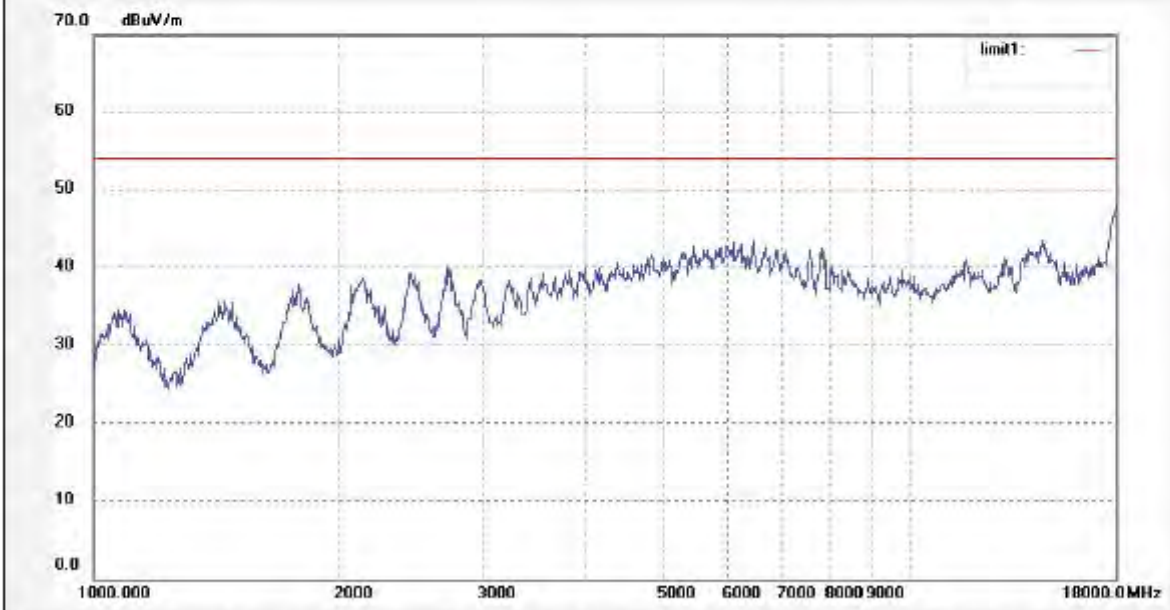
| | |
|---|---|
| Job No.: Bob #637 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:15:43 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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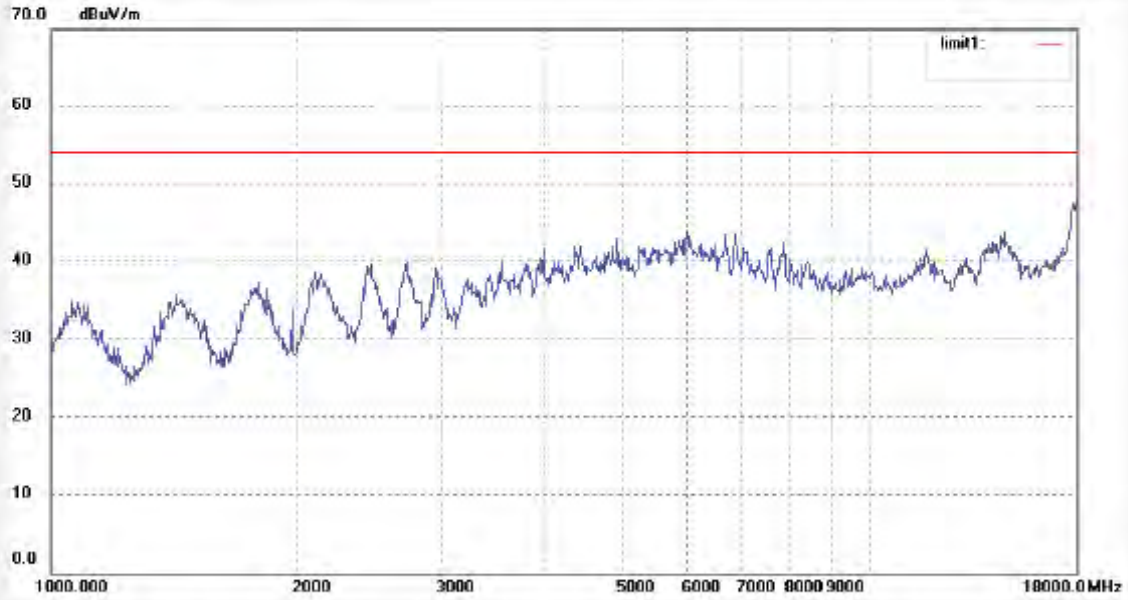
| | |
|---|---|
| Job No.: Bob #638 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 17:17:01 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: 3m |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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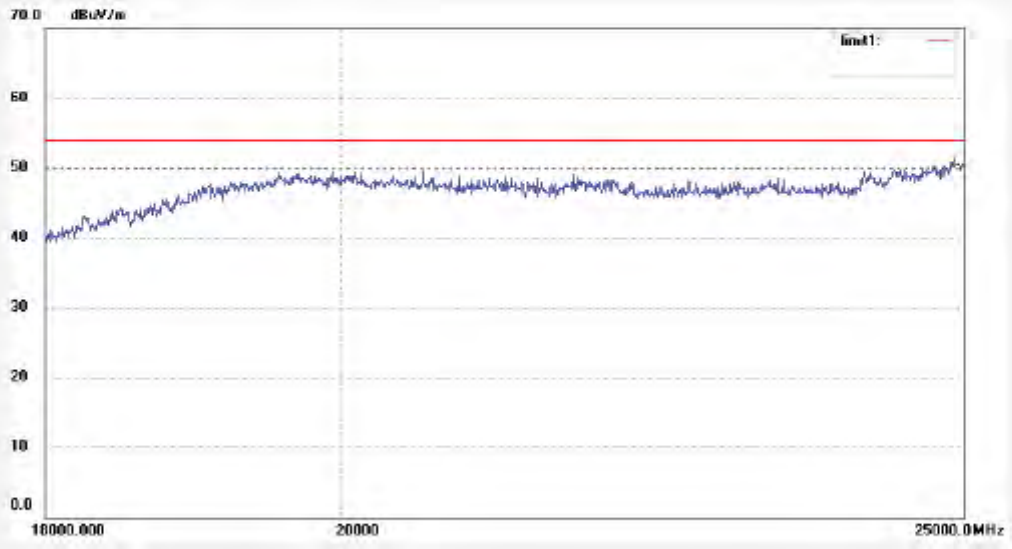
| | |
|---|---|
| Job No.: Bob #1562 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 15:55:57 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

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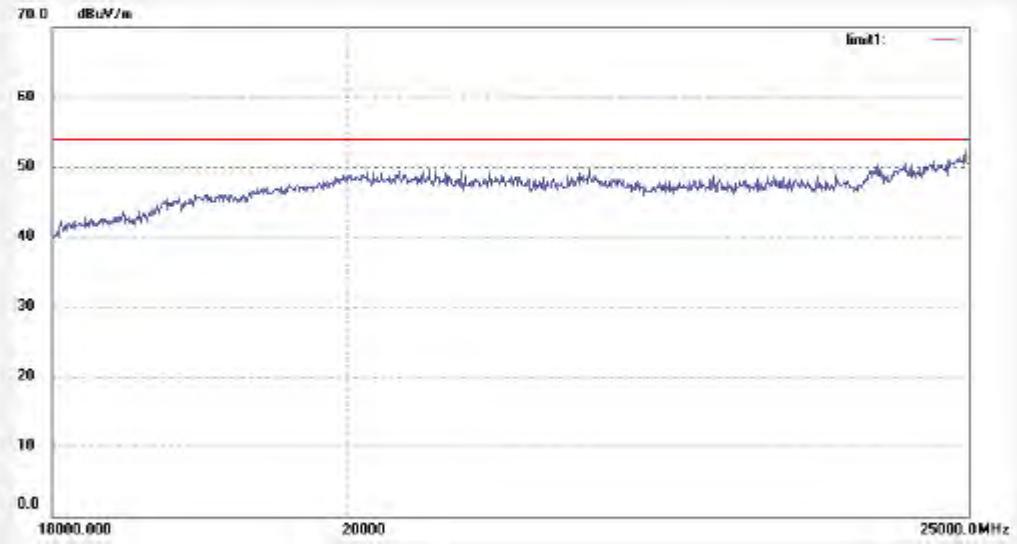
| | |
|---|---|
| Job No.: Bob #1563 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2012/01/18 |
| Temp.( C)/Hum.(%) 24 C / 48 % | Time: 15:57:43 |
| EUT: MID | Engineer Signature: Bob |
| Mode: TX Channel 1 (802.11n) | Distance: |
| Model: GN32 | |
| Manufacturer: Leader Digital-tech Weitong | |

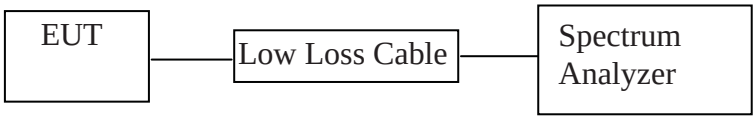
Note: Report No.:ATE20120034




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|

# 10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

## 10.1. Block Diagram of Test Setup




(EUT: MID)

## 10.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 10.3. EUT Configuration on Measurement

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

### 10.3.1. MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 10.5.Test Procedure

10.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

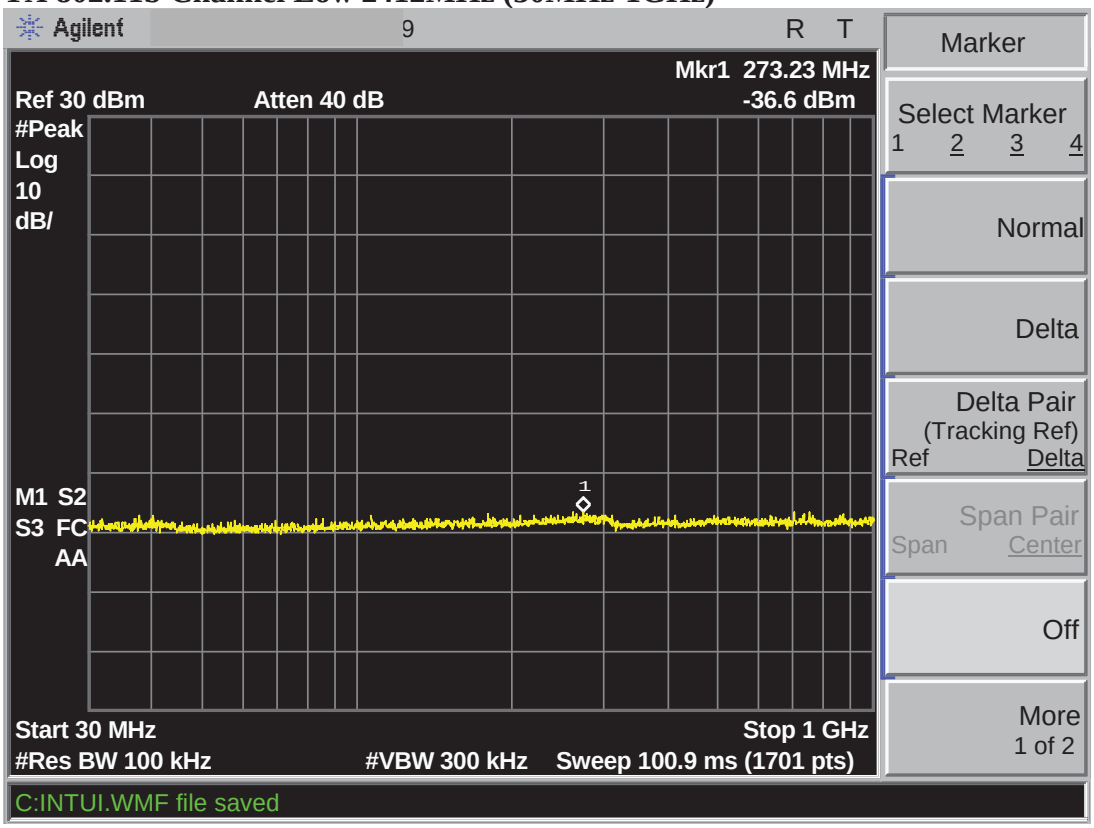
10.5.3.The Conducted Spurious Emission was measured and recorded.

## 10.6.Test Result

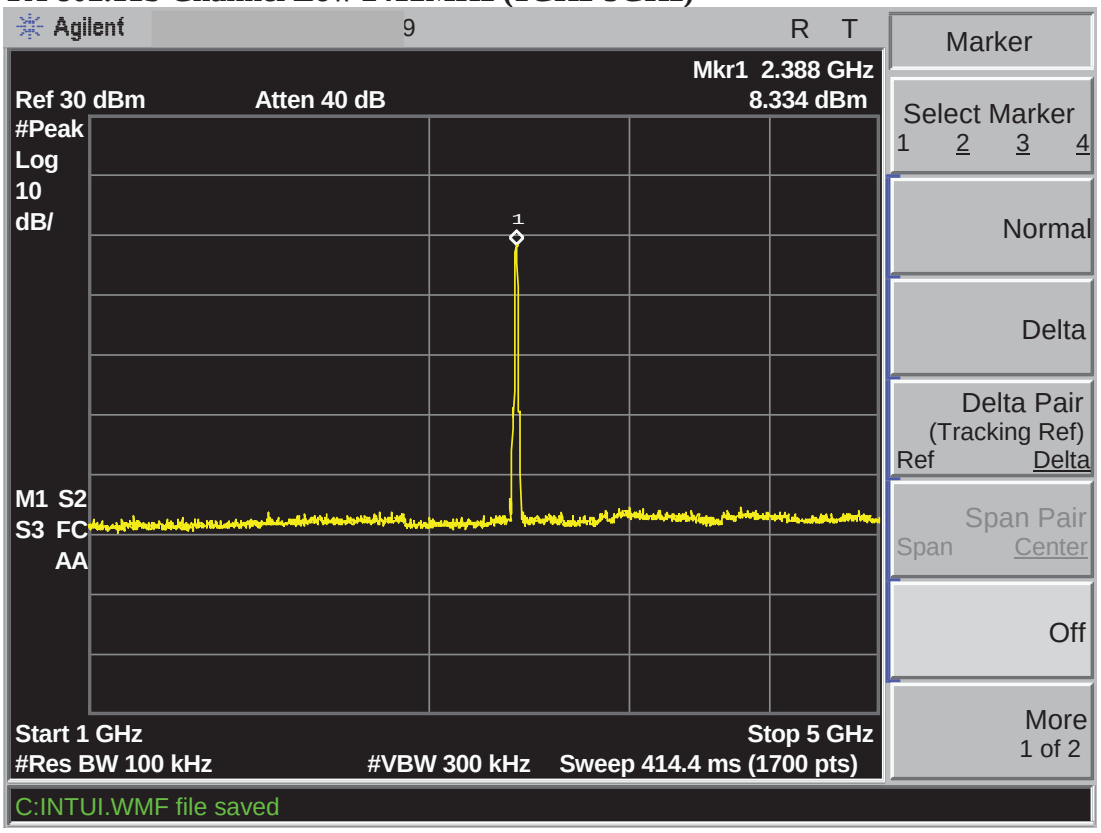
**Pass.**

The spectrum analyzer plots are attached as below.

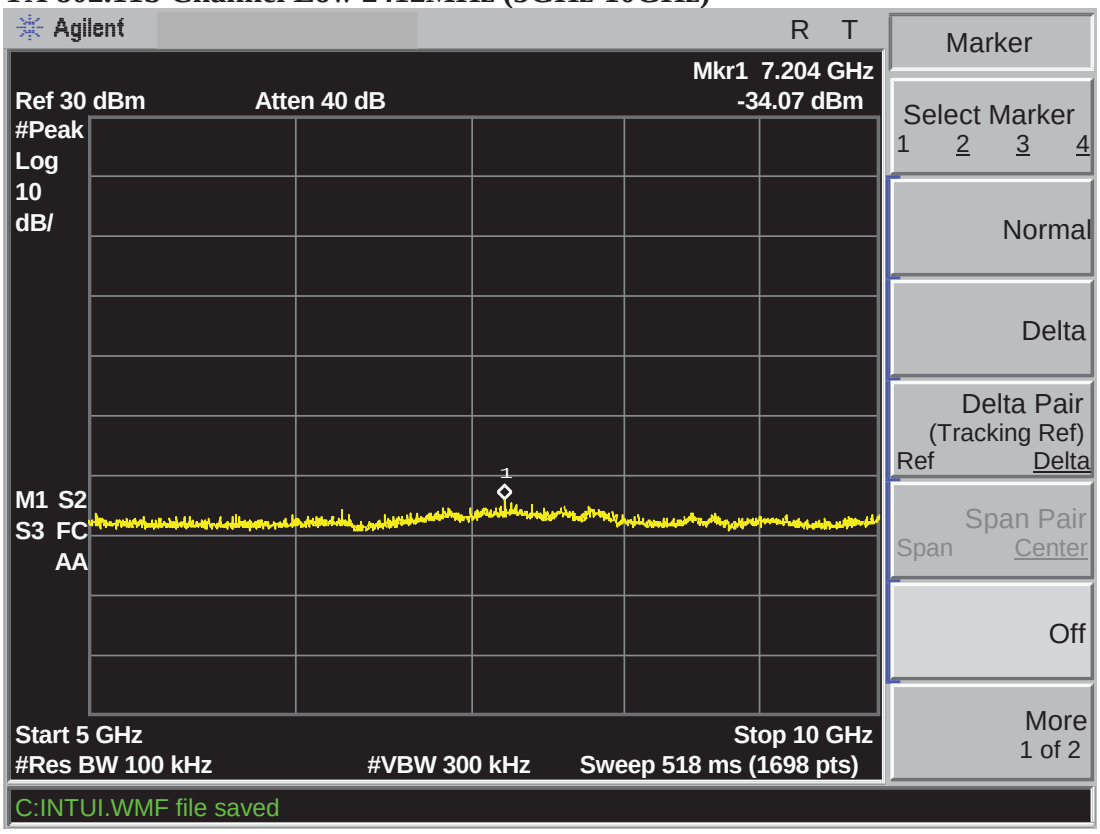
## TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



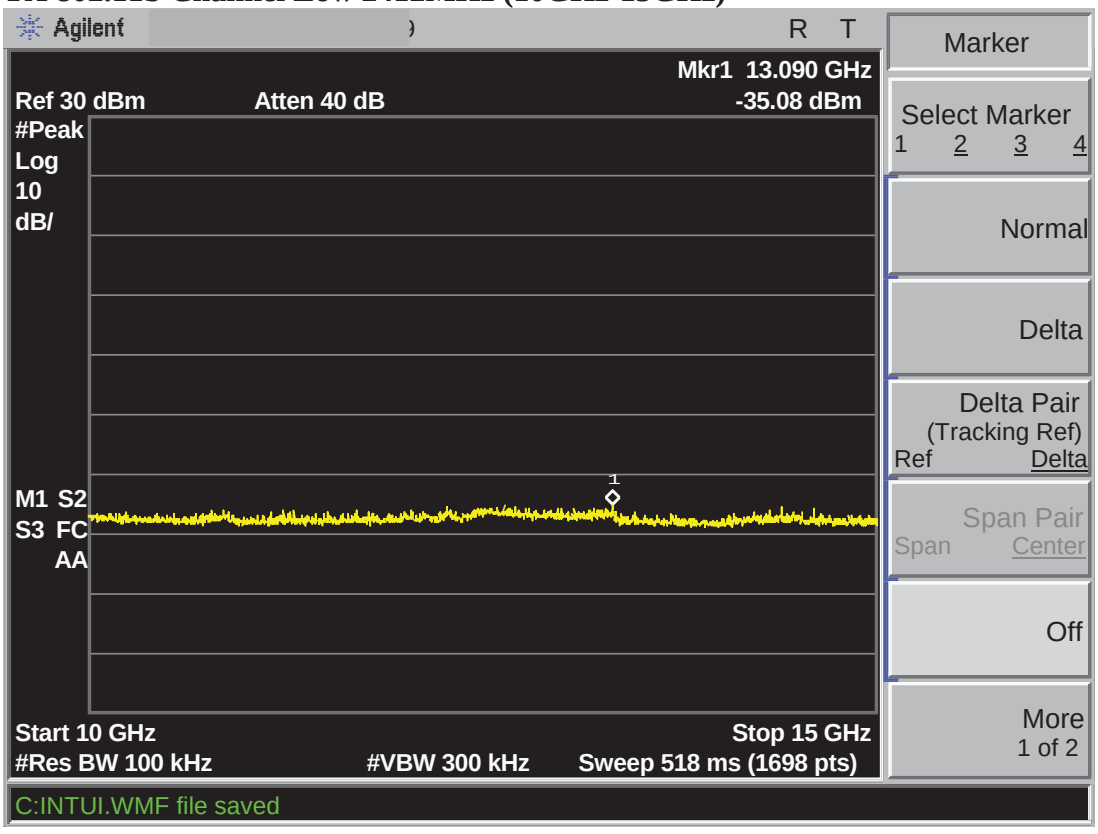

## TX 802.11b Channel Low 2412MHz (1GHz-5GHz)



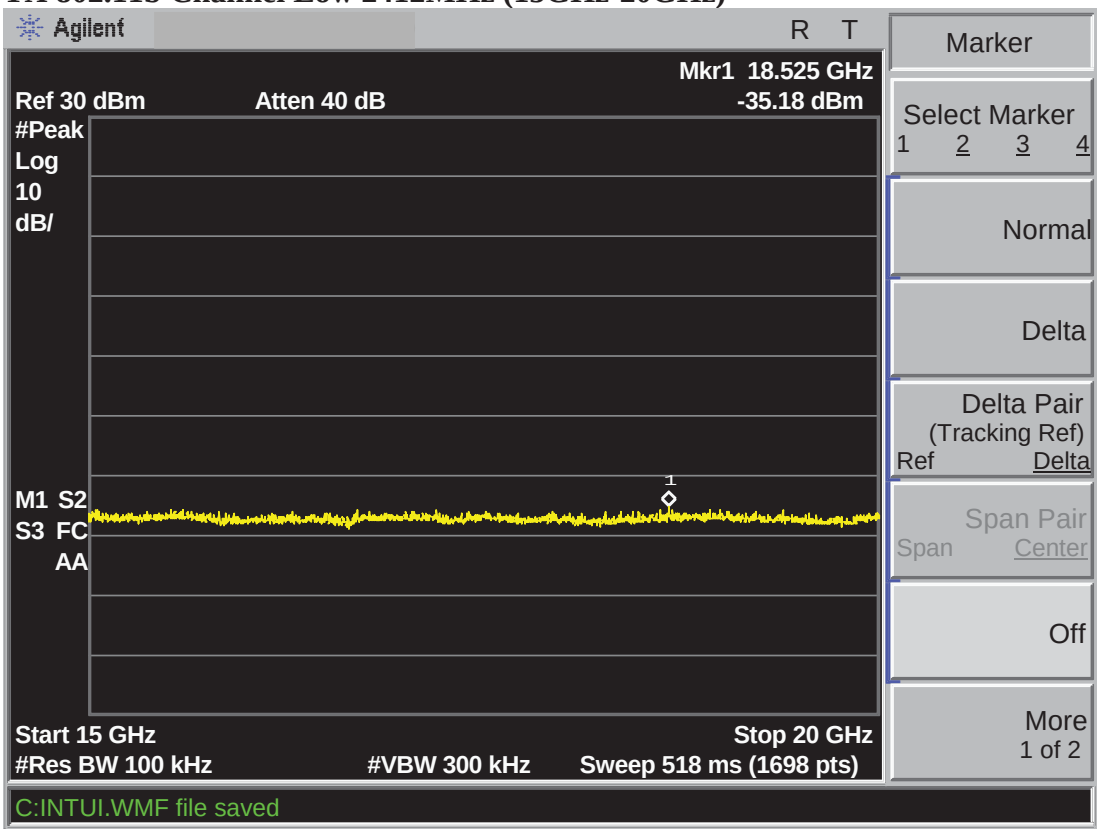
## TX 802.11b Channel Low 2412MHz (5GHz-10GHz)



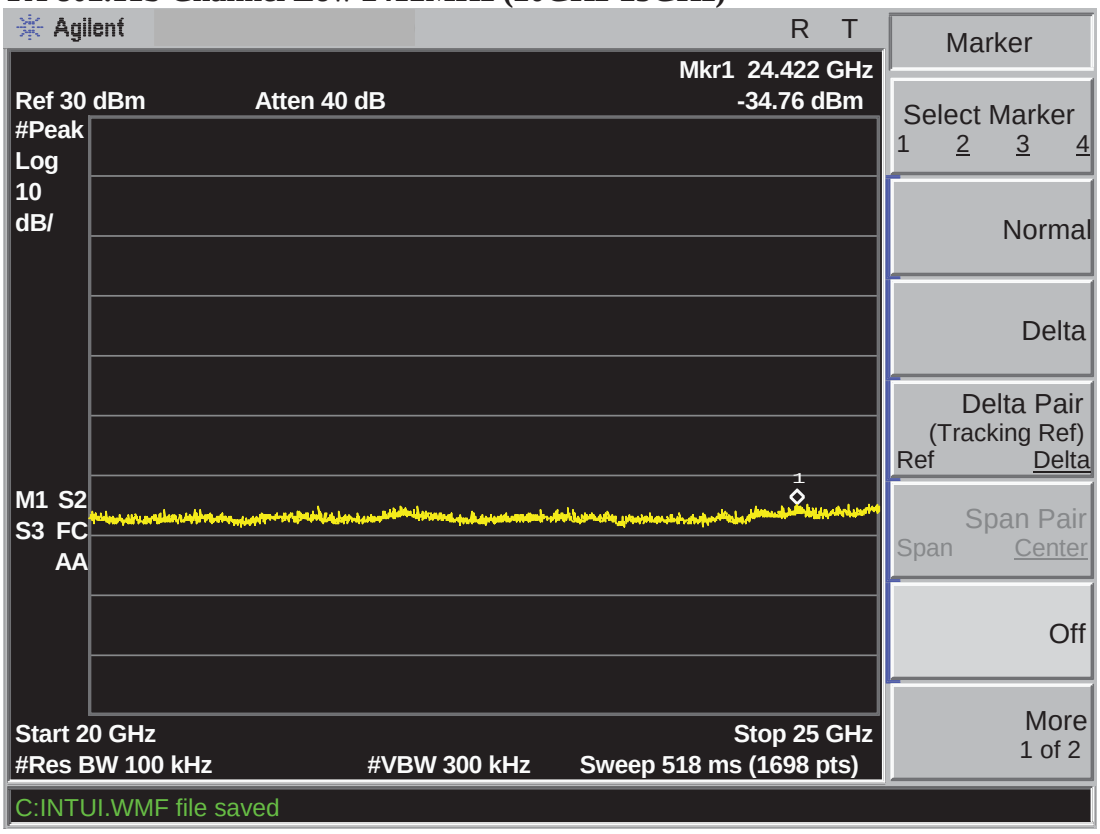

## TX 802.11b Channel Low 2412MHz (10GHz-15GHz)



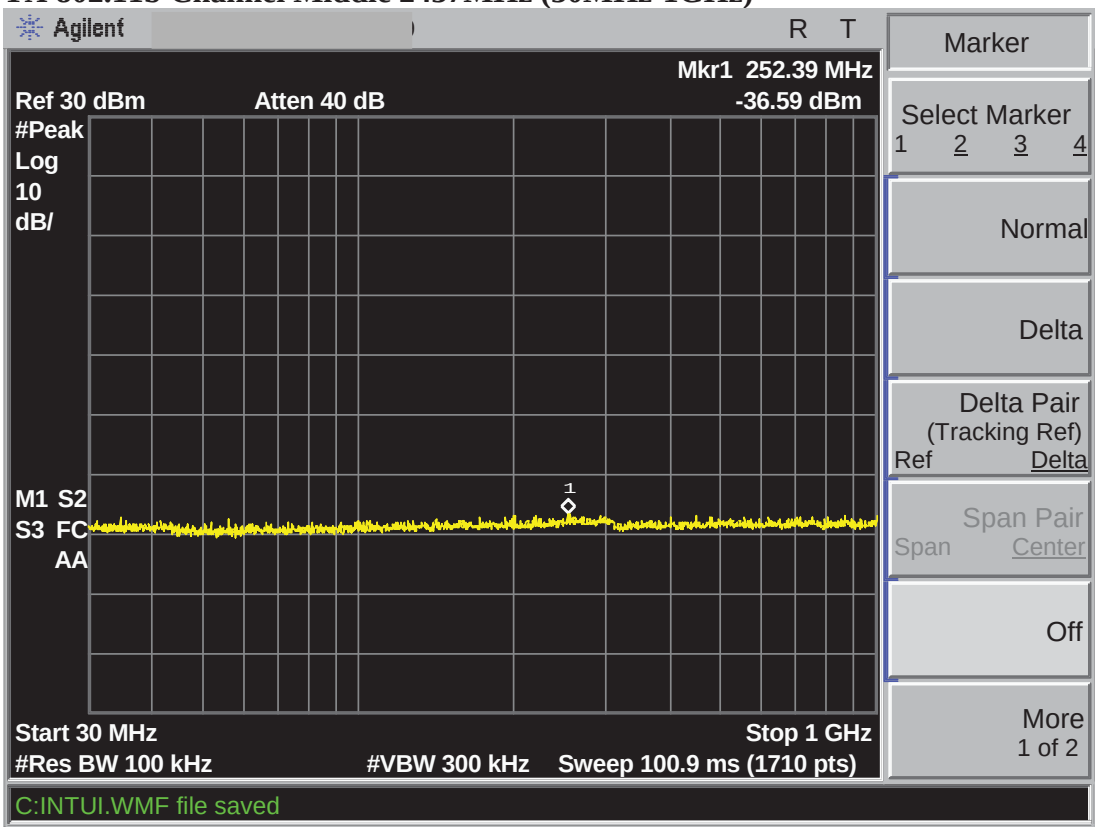
## TX 802.11b Channel Low 2412MHz (15GHz-20GHz)



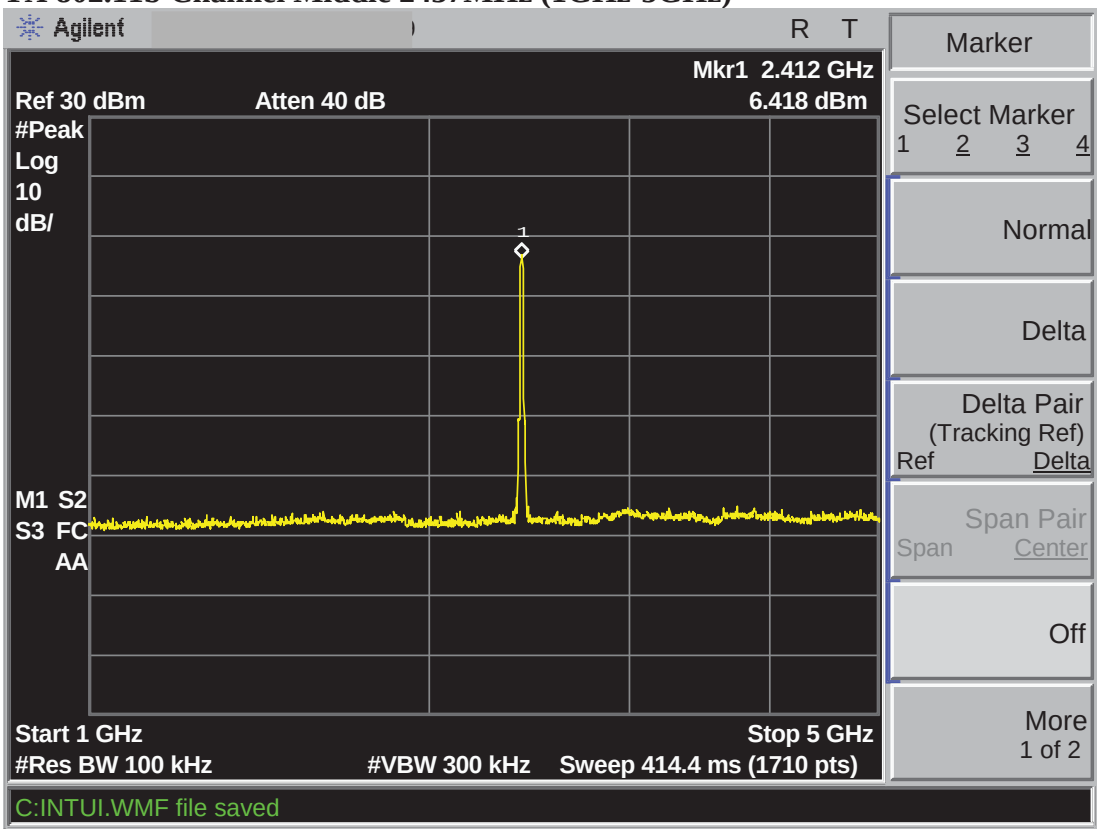

## TX 802.11b Channel Low 2412MHz (20GHz-25GHz)



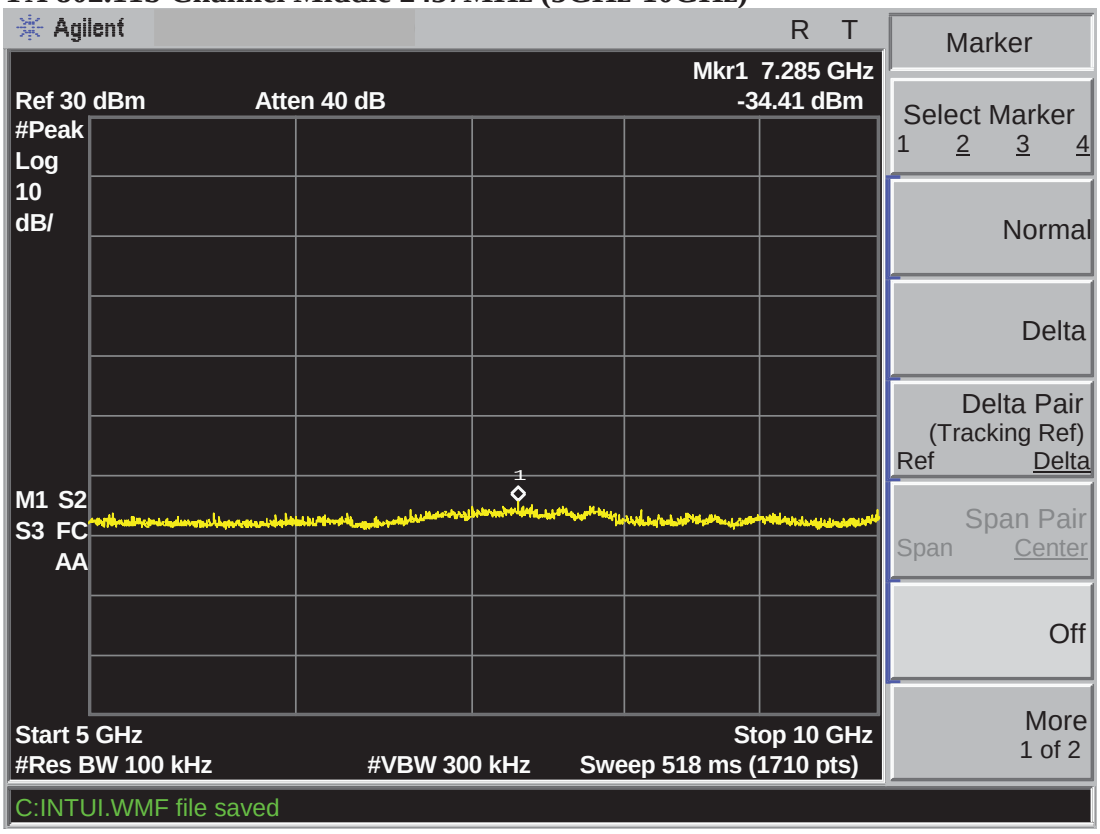
## TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



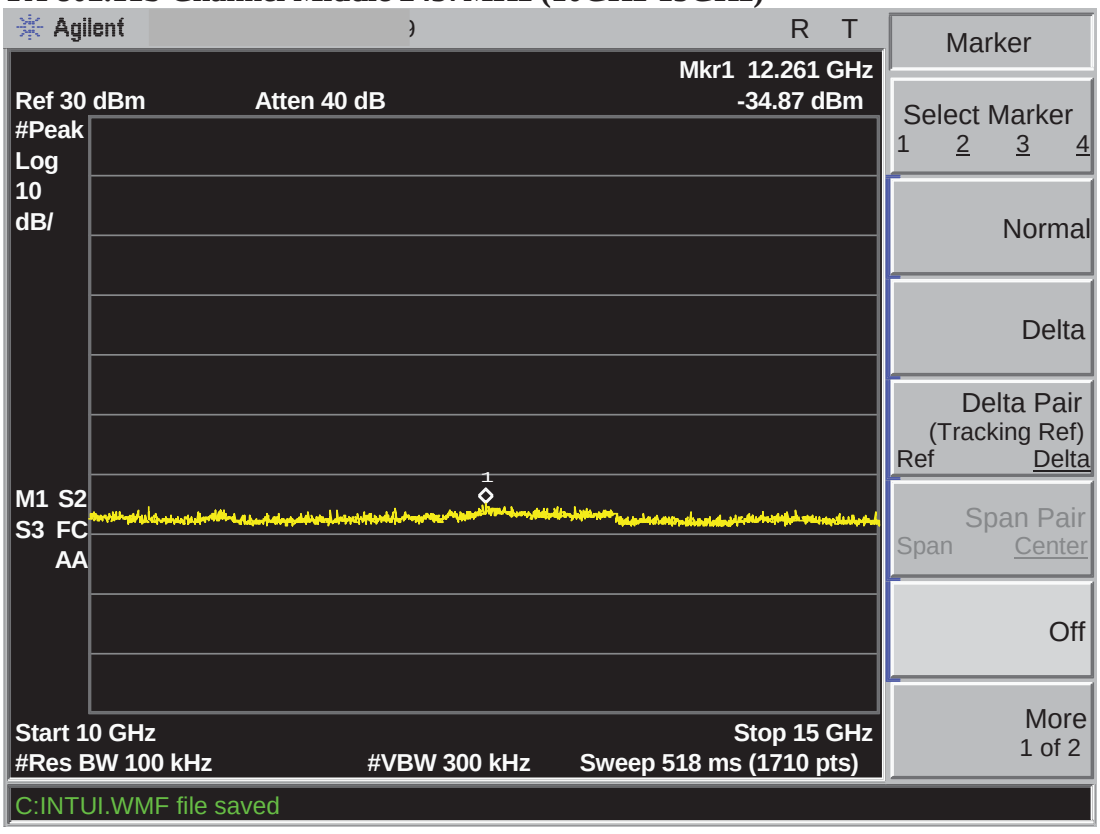

## TX 802.11b Channel Middle 2437MHz (1GHz-5GHz)



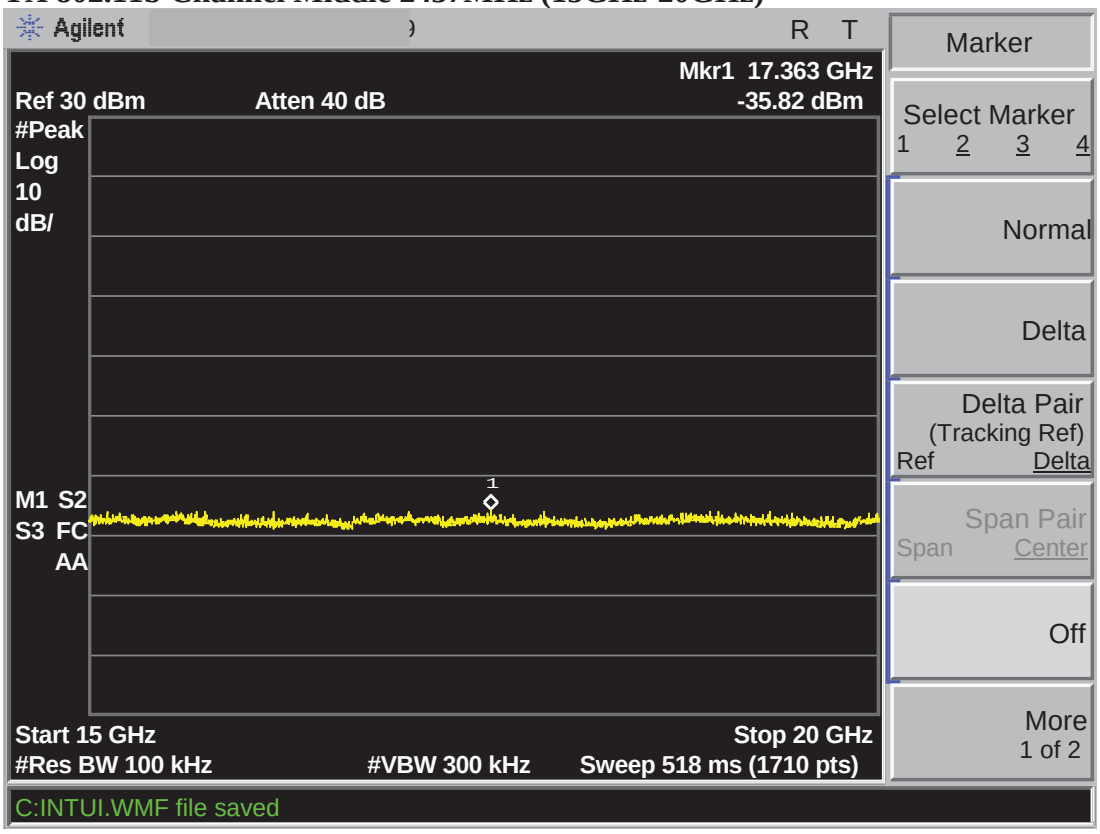
## TX 802.11b Channel Middle 2437MHz (5GHz-10GHz)



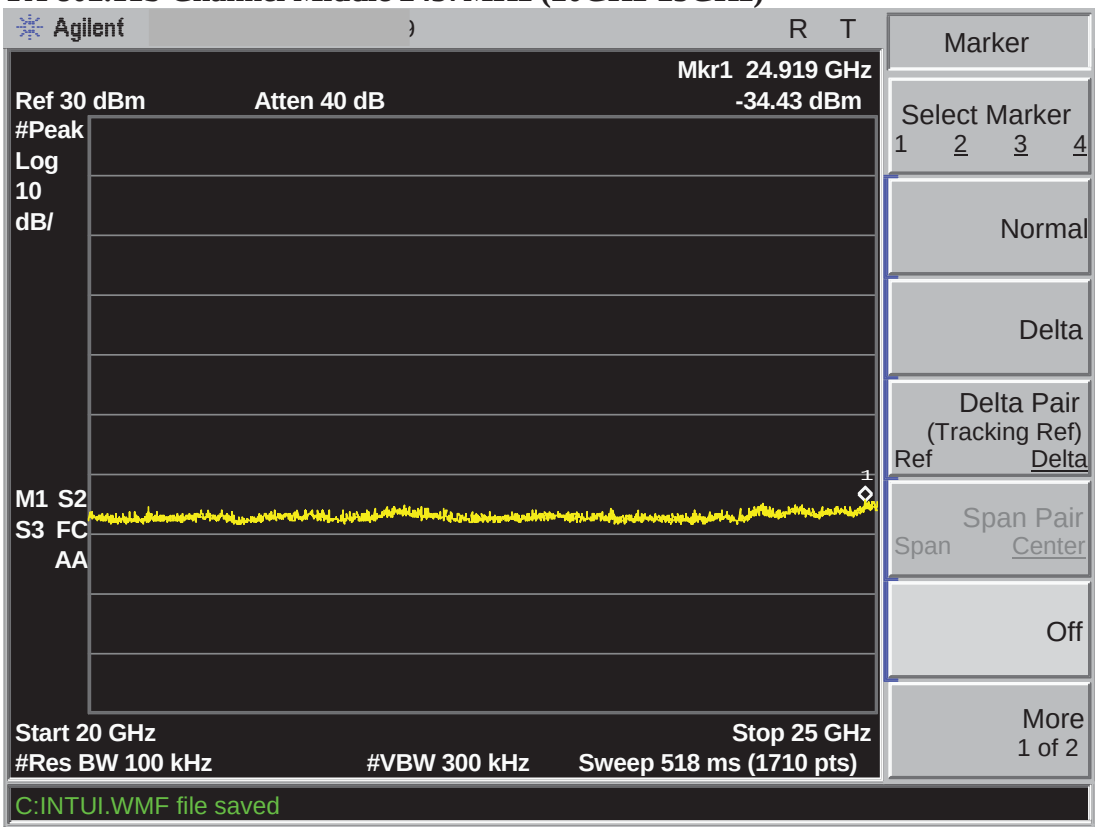

## TX 802.11b Channel Middle 2437MHz (10GHz-15GHz)



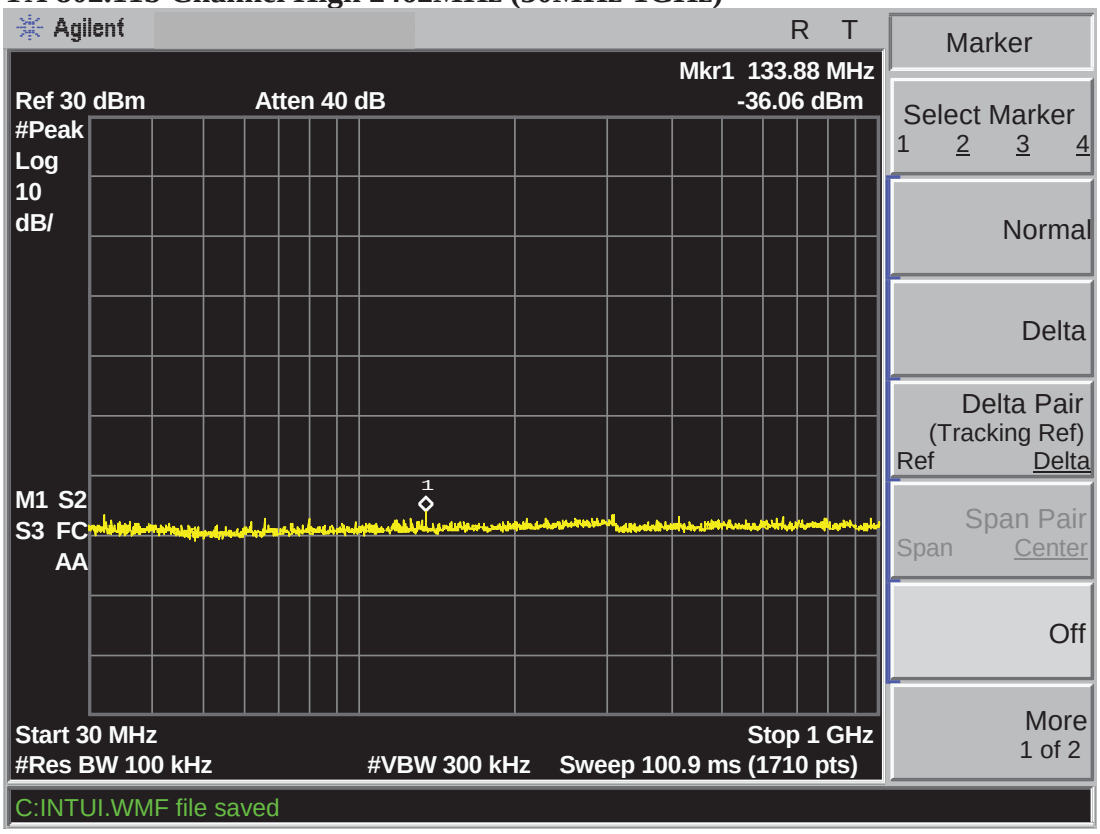
## TX 802.11b Channel Middle 2437MHz (15GHz-20GHz)



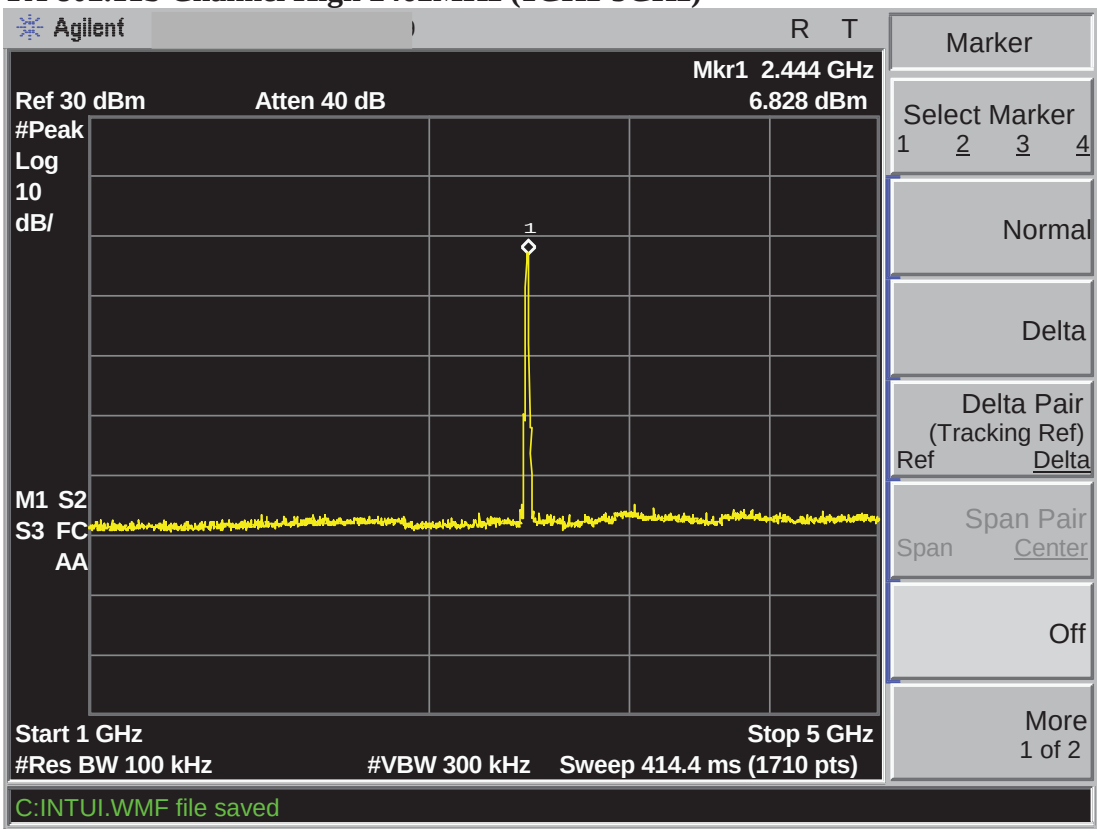

## TX 802.11b Channel Middle 2437MHz (20GHz-25GHz)



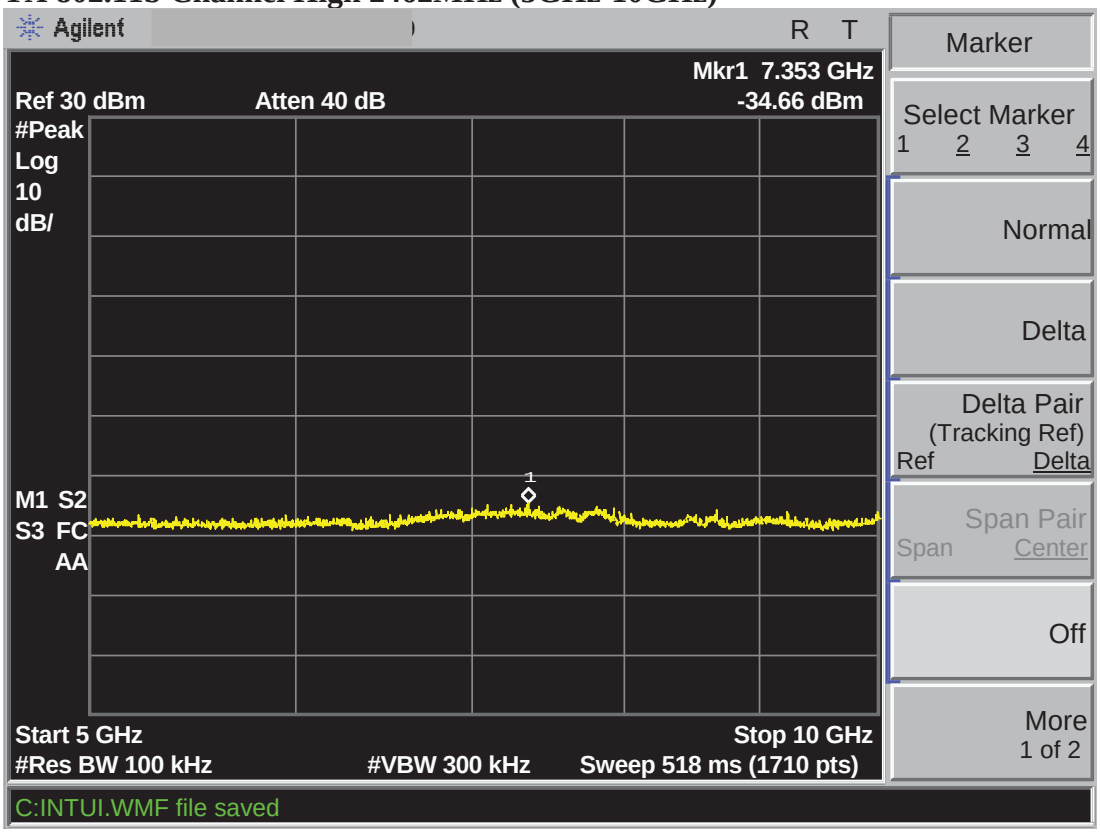
## TX 802.11b Channel High 2462MHz (30MHz-1GHz)



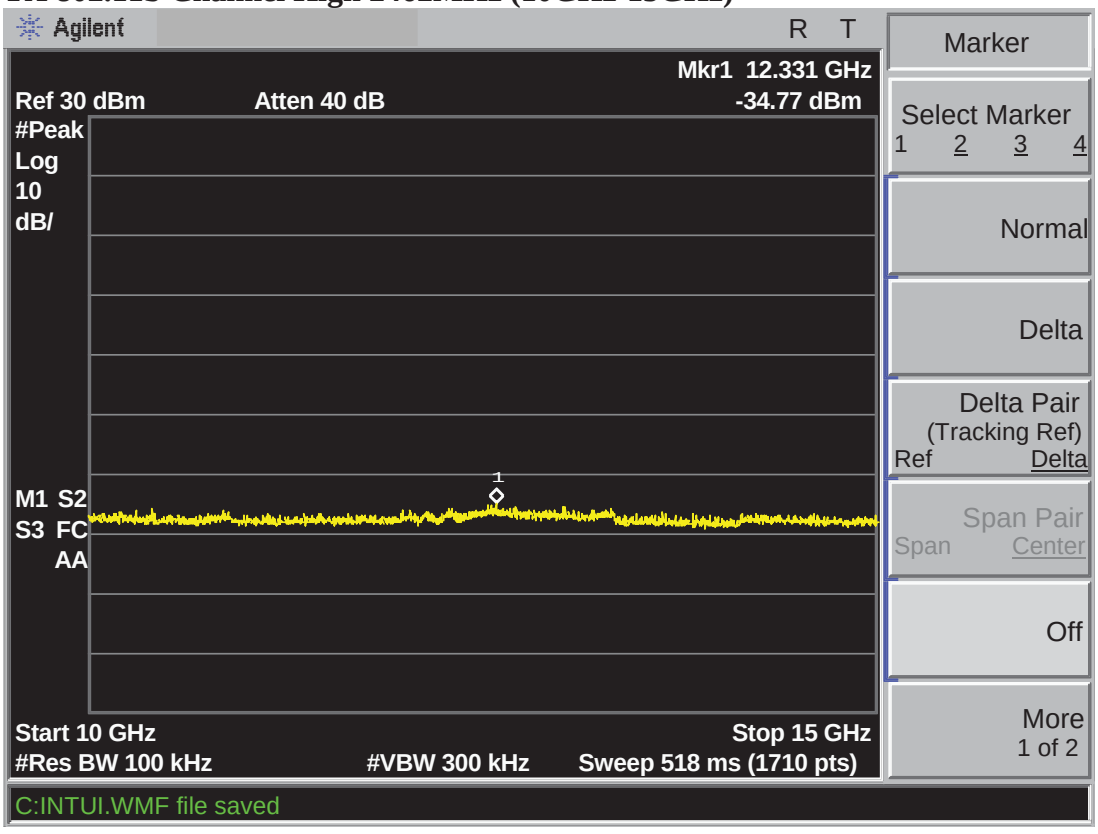

## TX 802.11b Channel High 2462MHz (1GHz-5GHz)



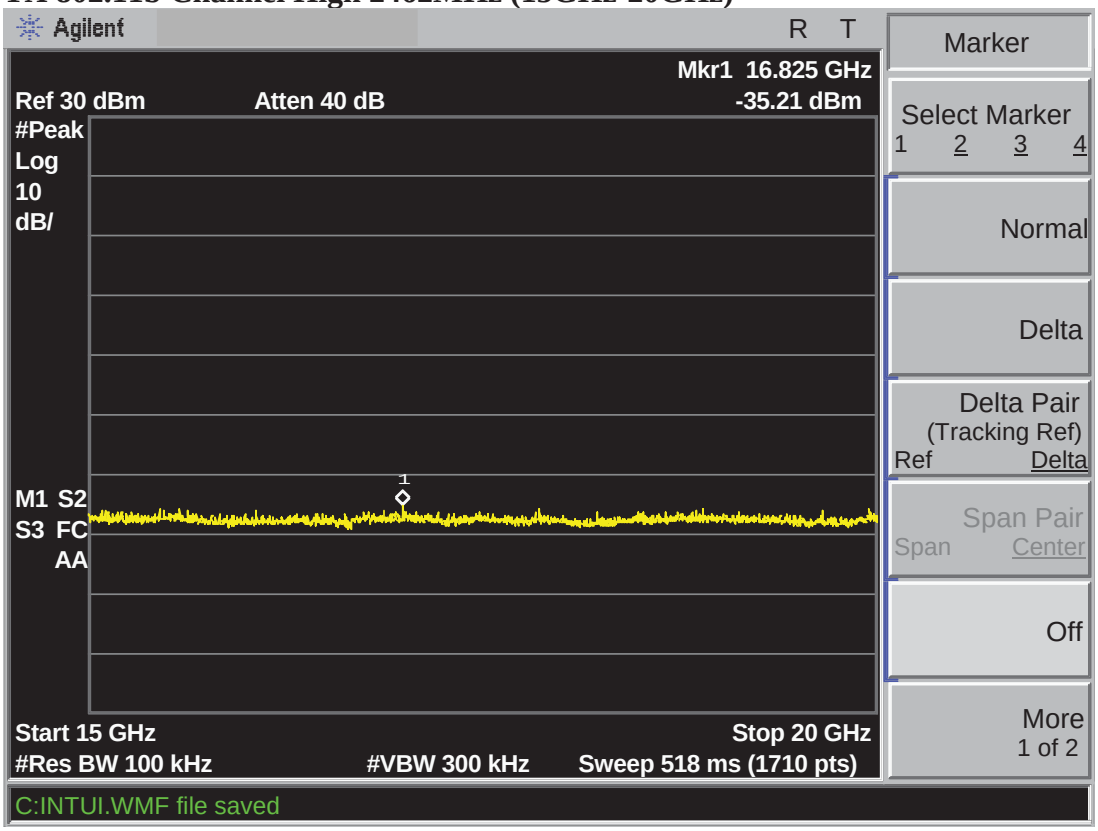
## TX 802.11b Channel High 2462MHz (5GHz-10GHz)



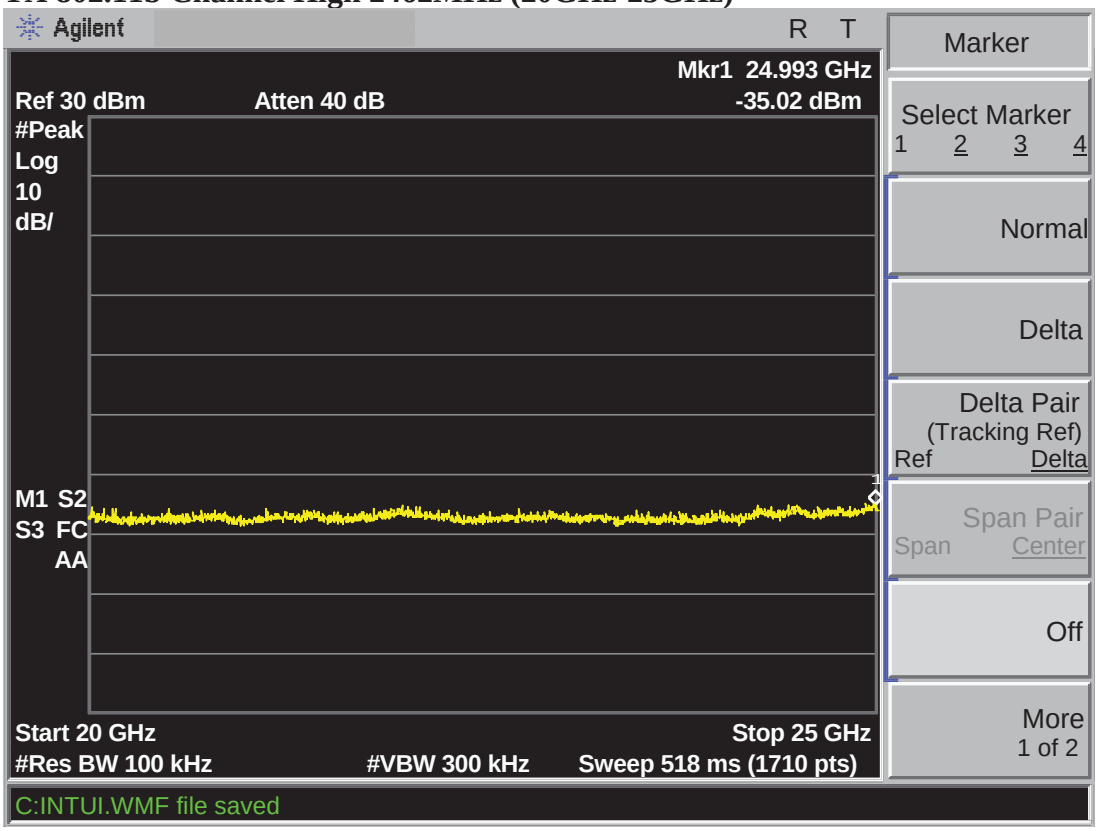

## TX 802.11b Channel High 2462MHz (10GHz-15GHz)



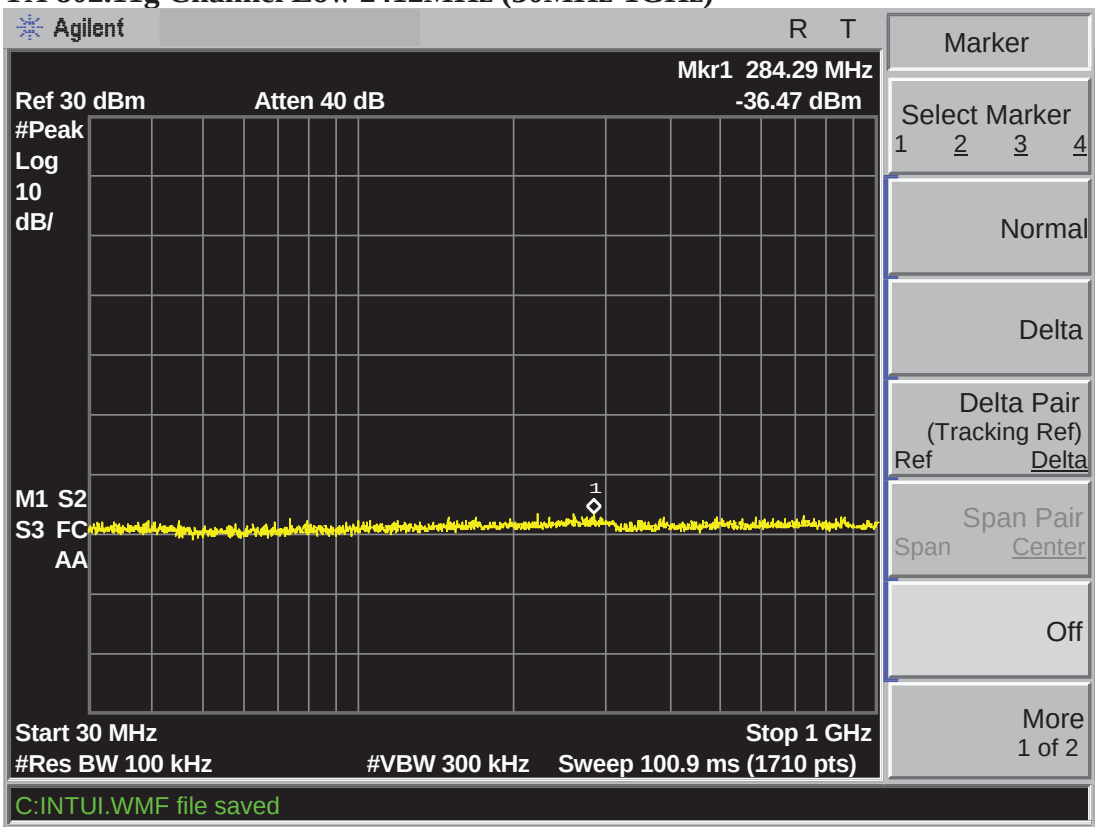
## TX 802.11b Channel High 2462MHz (15GHz-20GHz)



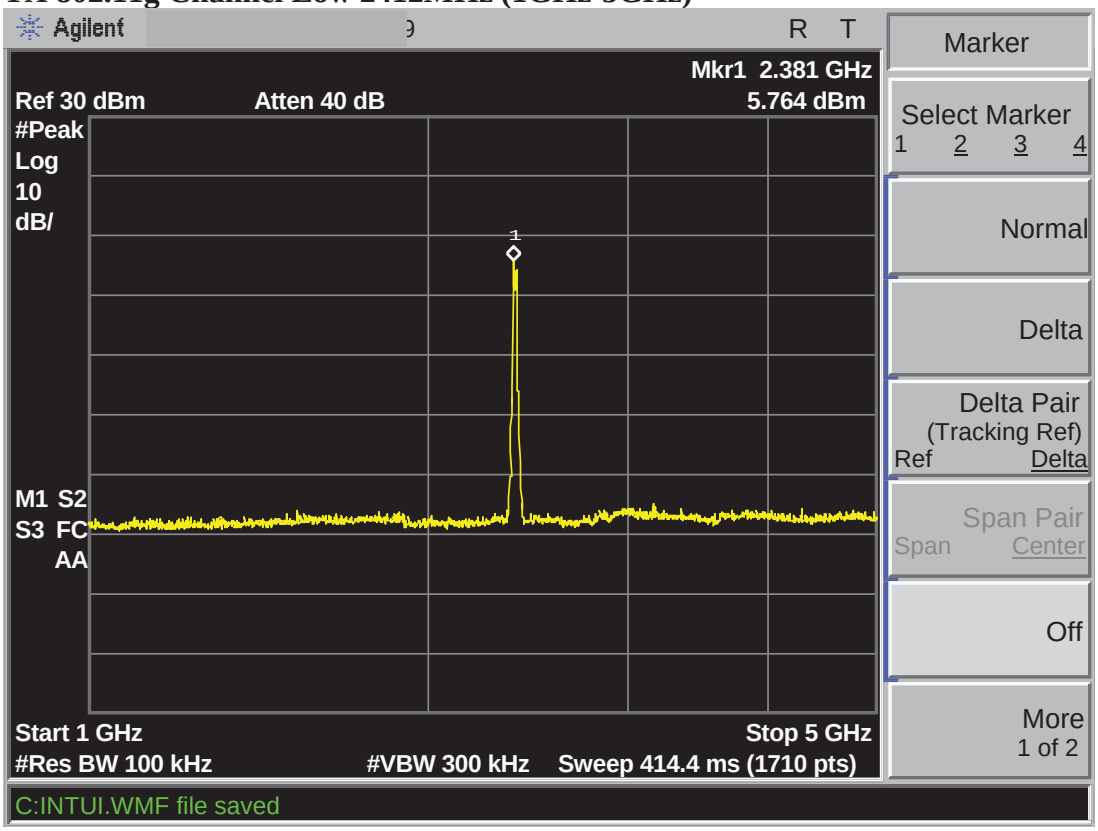

## TX 802.11b Channel High 2462MHz (20GHz-25GHz)



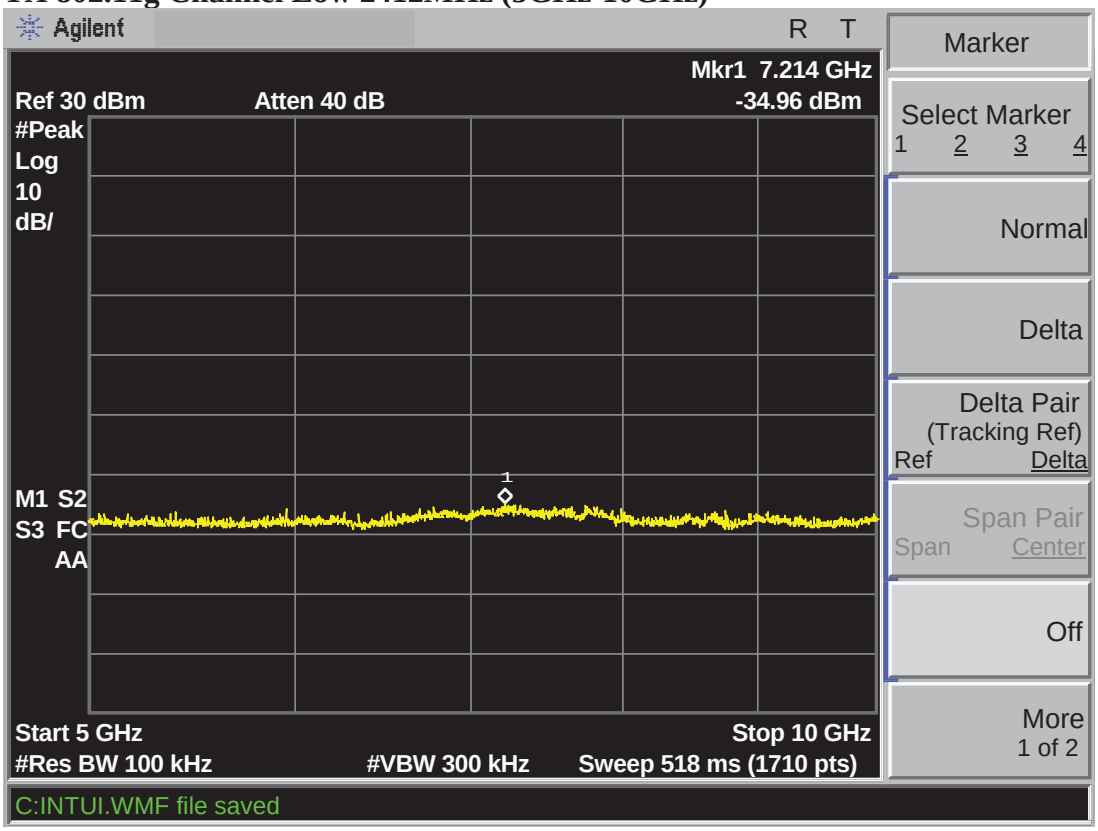
## TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



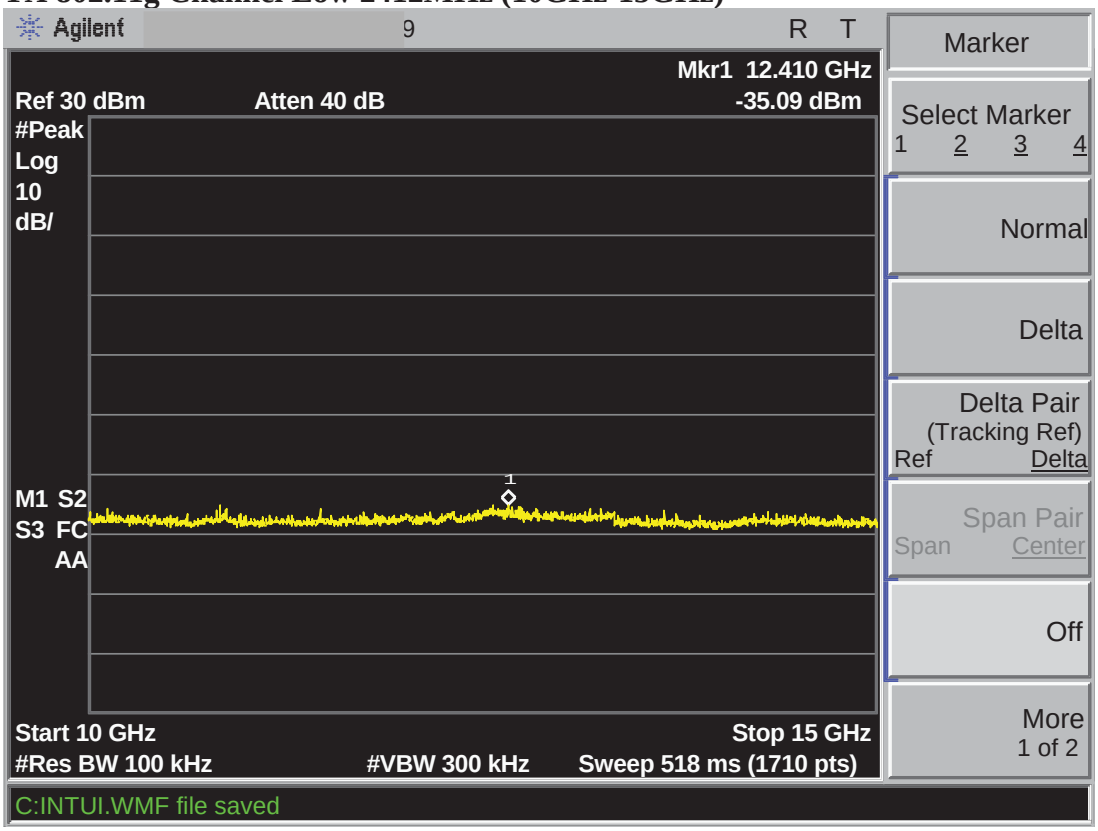

## TX 802.11g Channel Low 2412MHz (1GHz-5GHz)



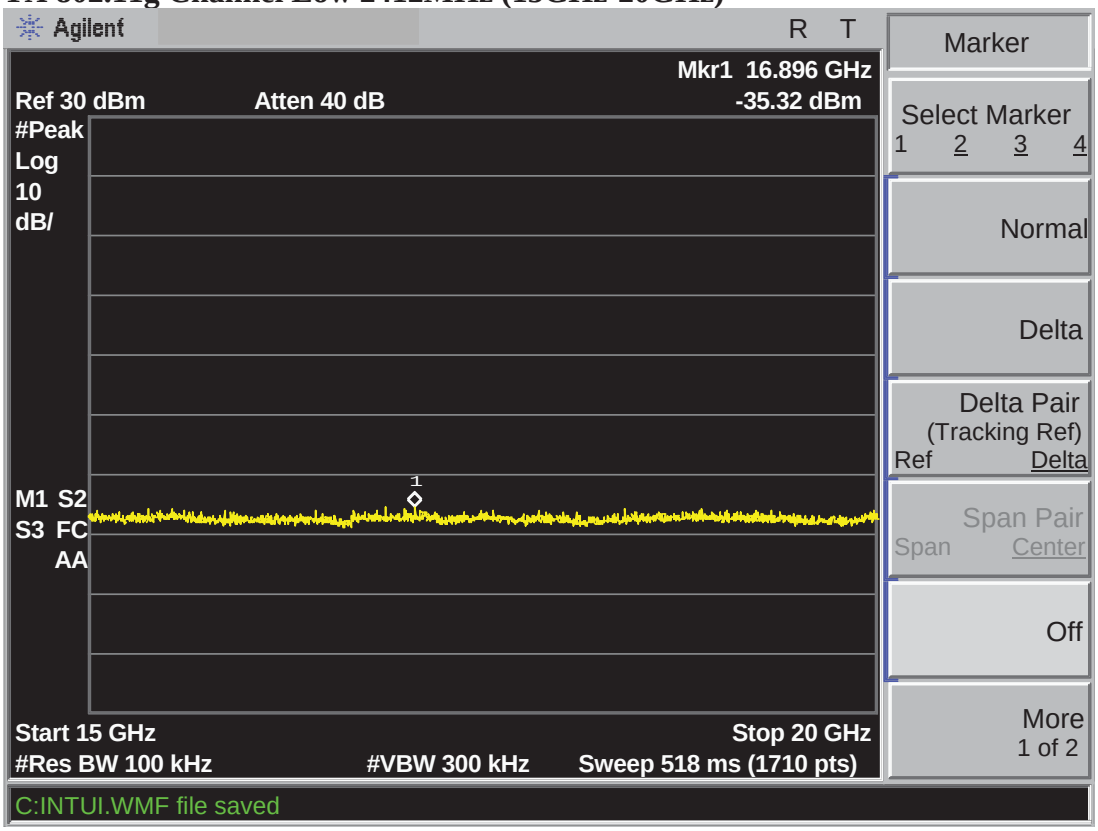
## TX 802.11g Channel Low 2412MHz (5GHz-10GHz)



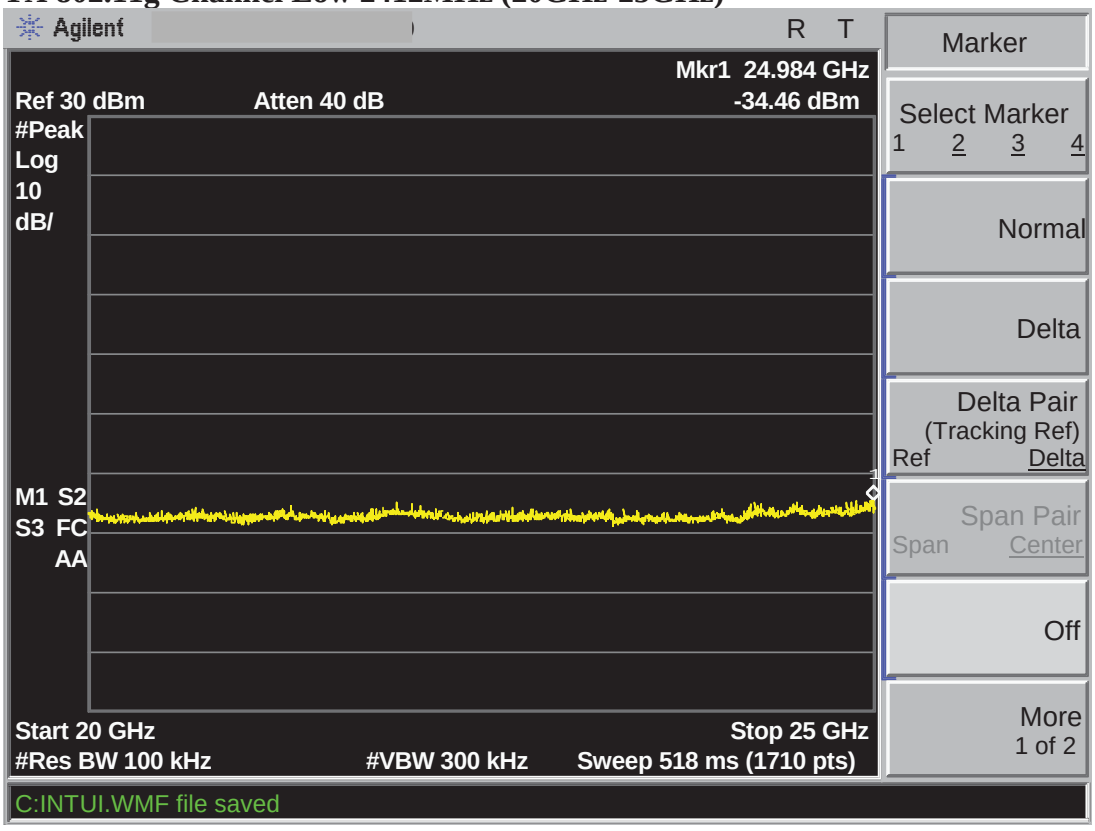

## TX 802.11g Channel Low 2412MHz (10GHz-15GHz)



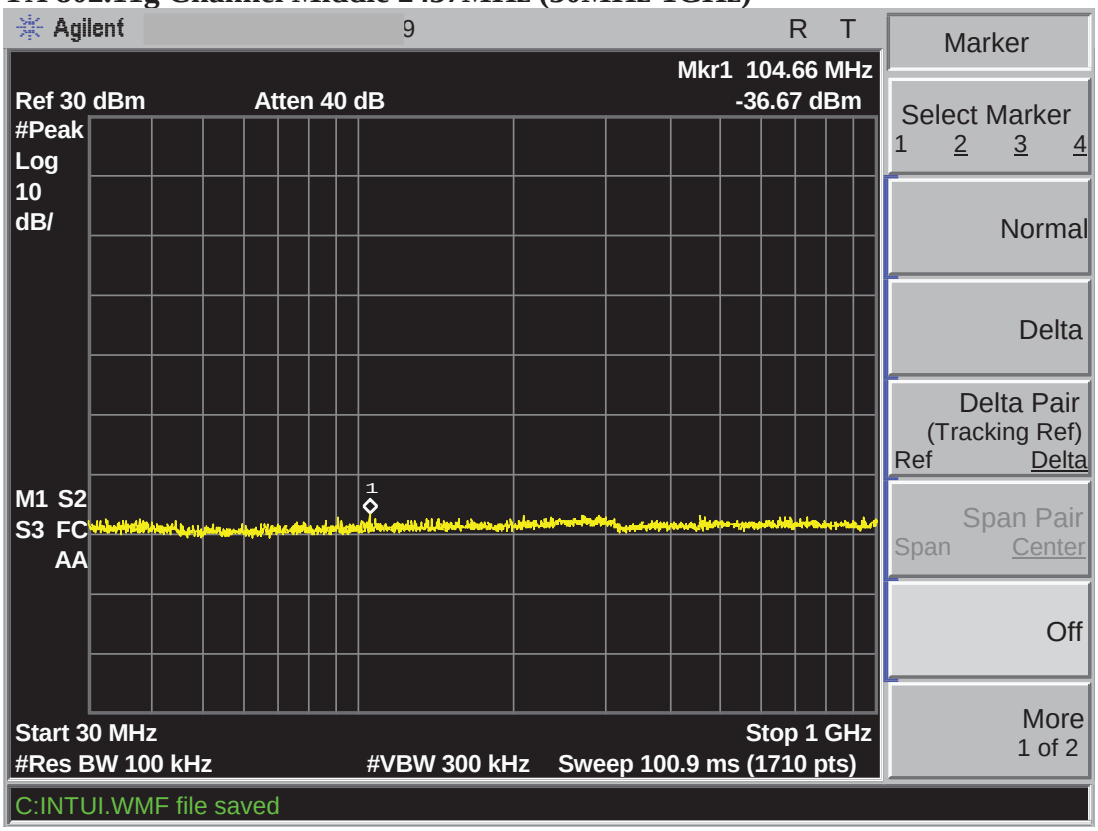
## TX 802.11g Channel Low 2412MHz (15GHz-20GHz)



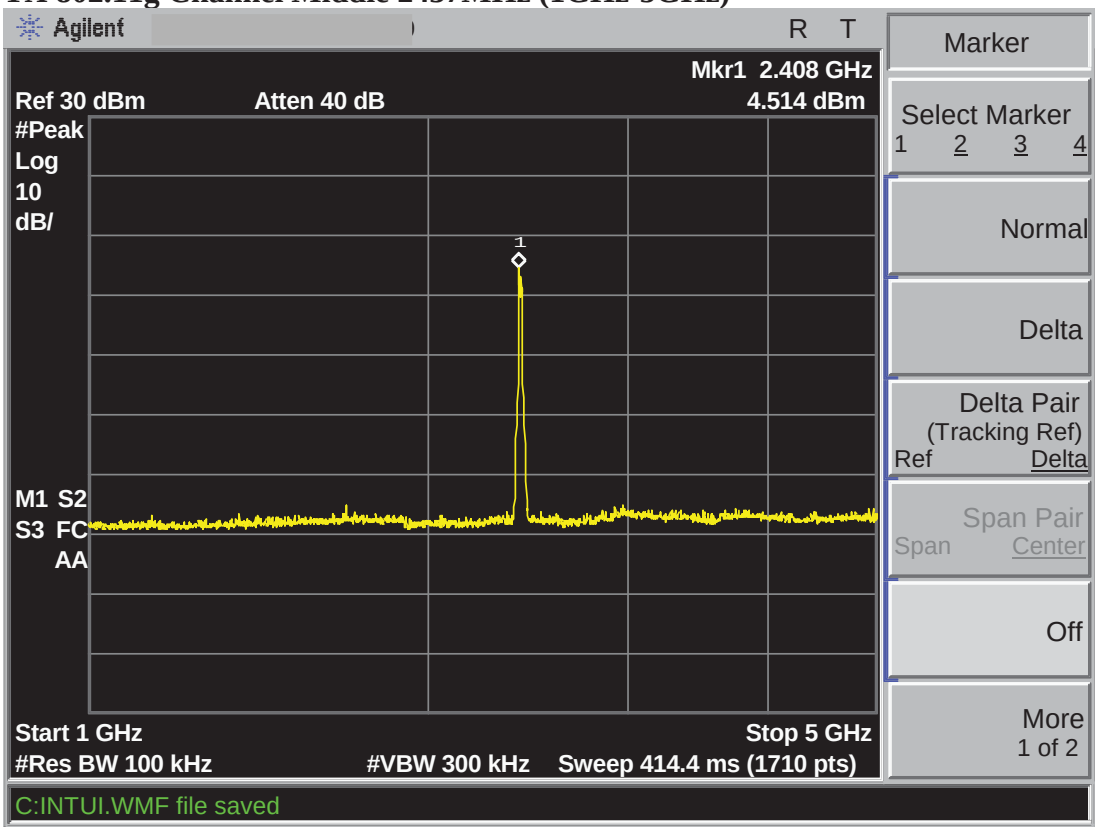

## TX 802.11g Channel Low 2412MHz (20GHz-25GHz)



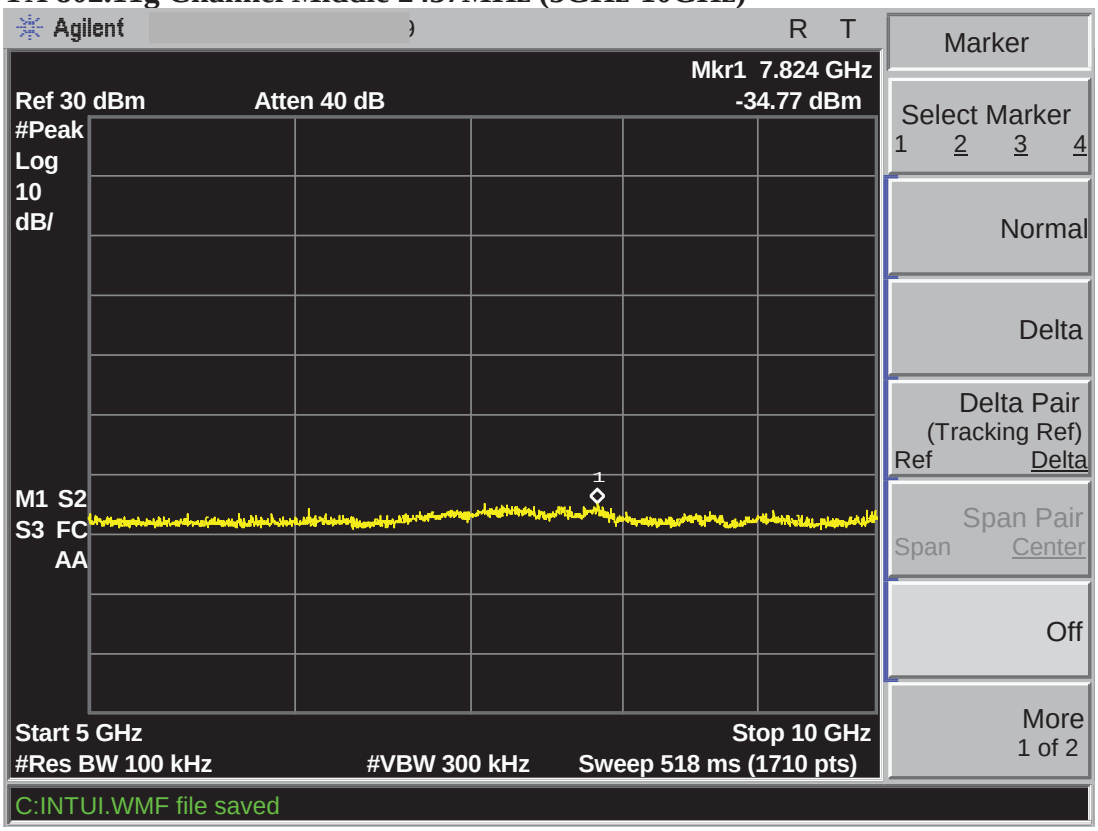
## TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



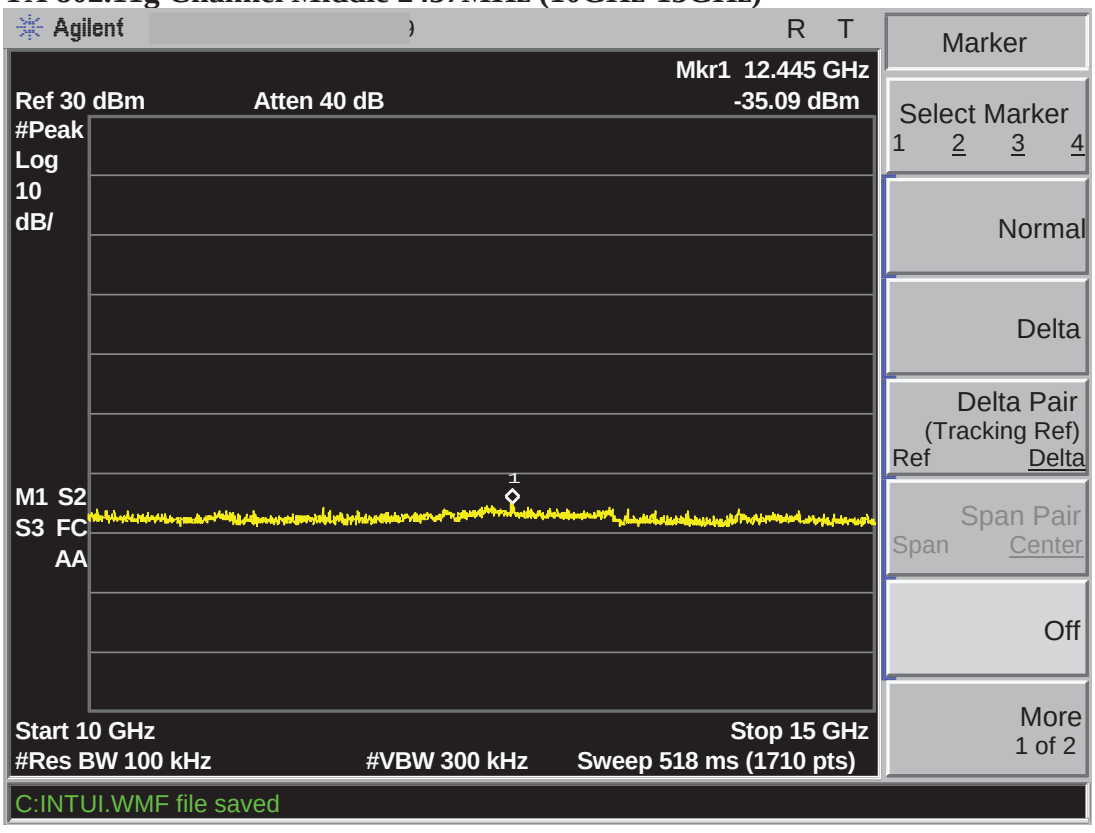

## TX 802.11g Channel Middle 2437MHz (1GHz-5GHz)



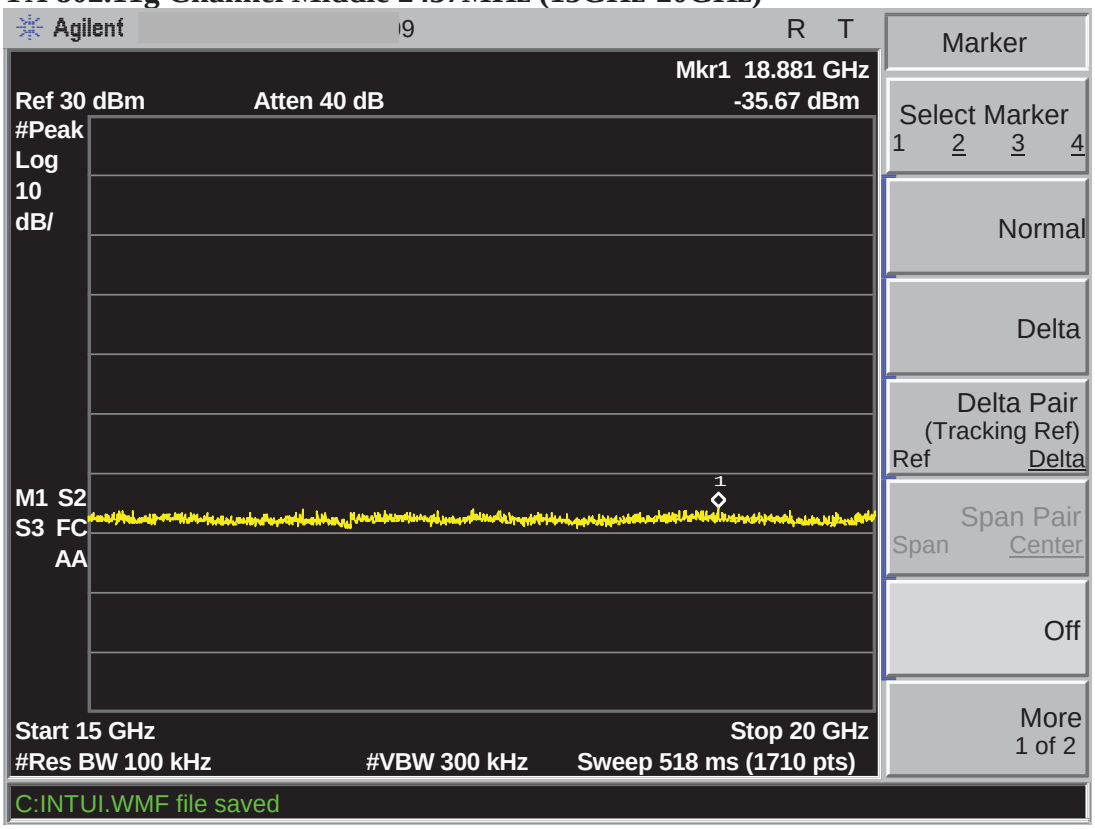
## TX 802.11g Channel Middle 2437MHz (5GHz-10GHz)



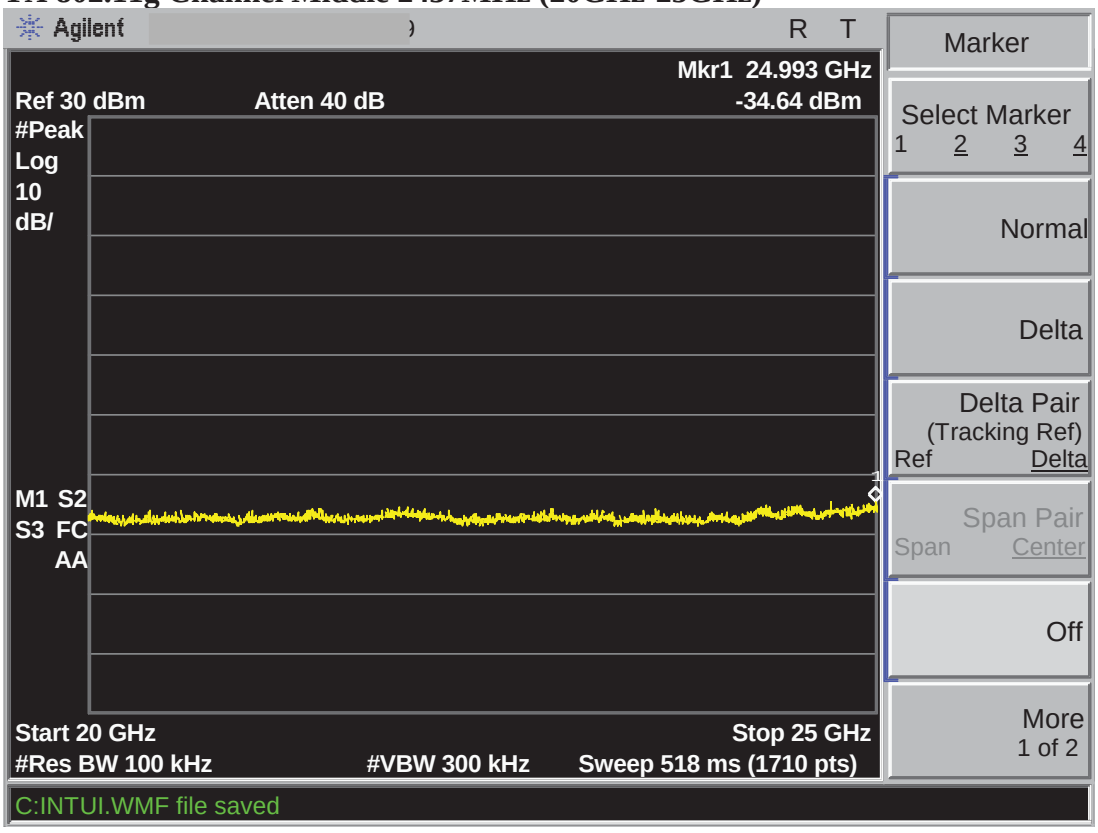

## TX 802.11g Channel Middle 2437MHz (10GHz-15GHz)



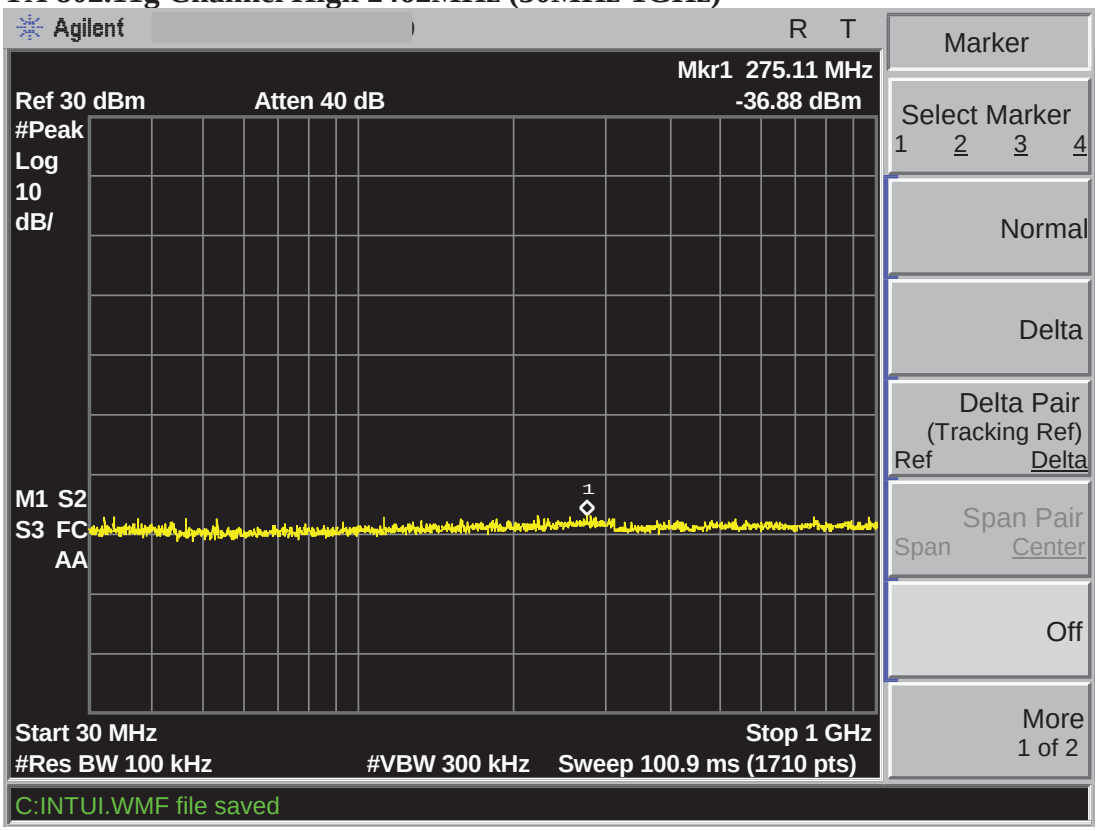
## TX 802.11g Channel Middle 2437MHz (15GHz-20GHz)



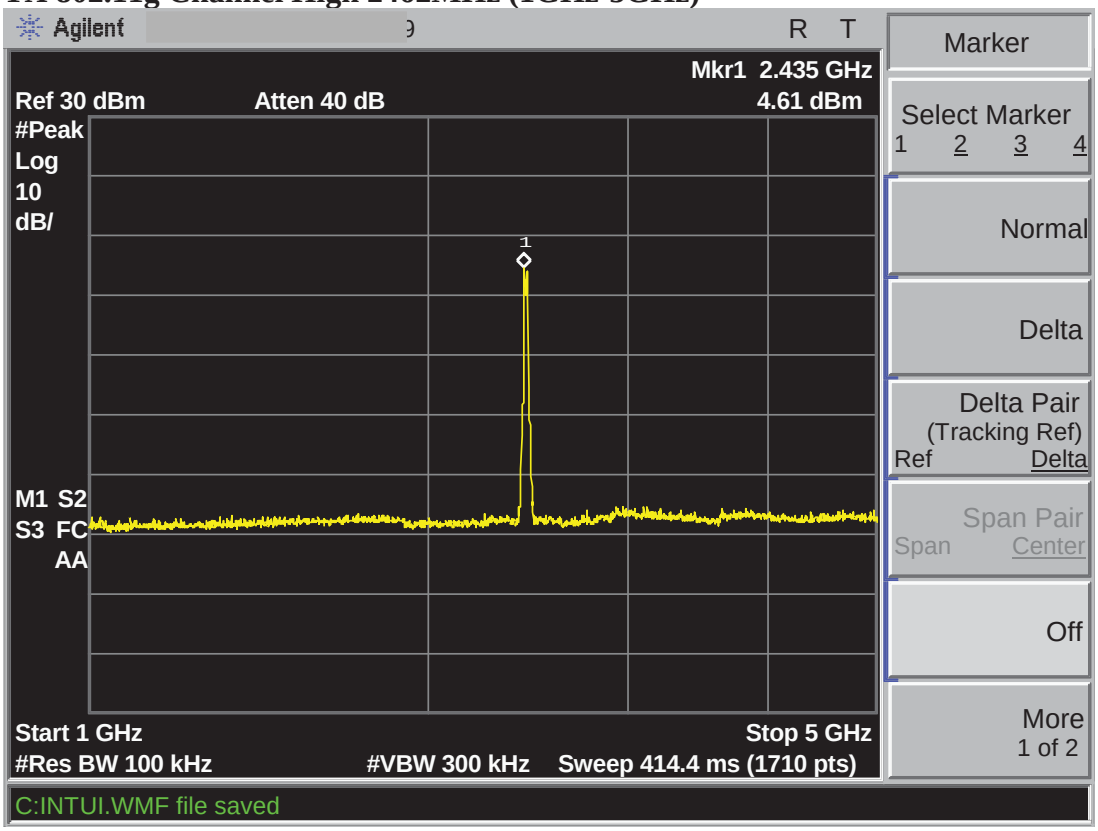

## TX 802.11g Channel Middle 2437MHz (20GHz-25GHz)



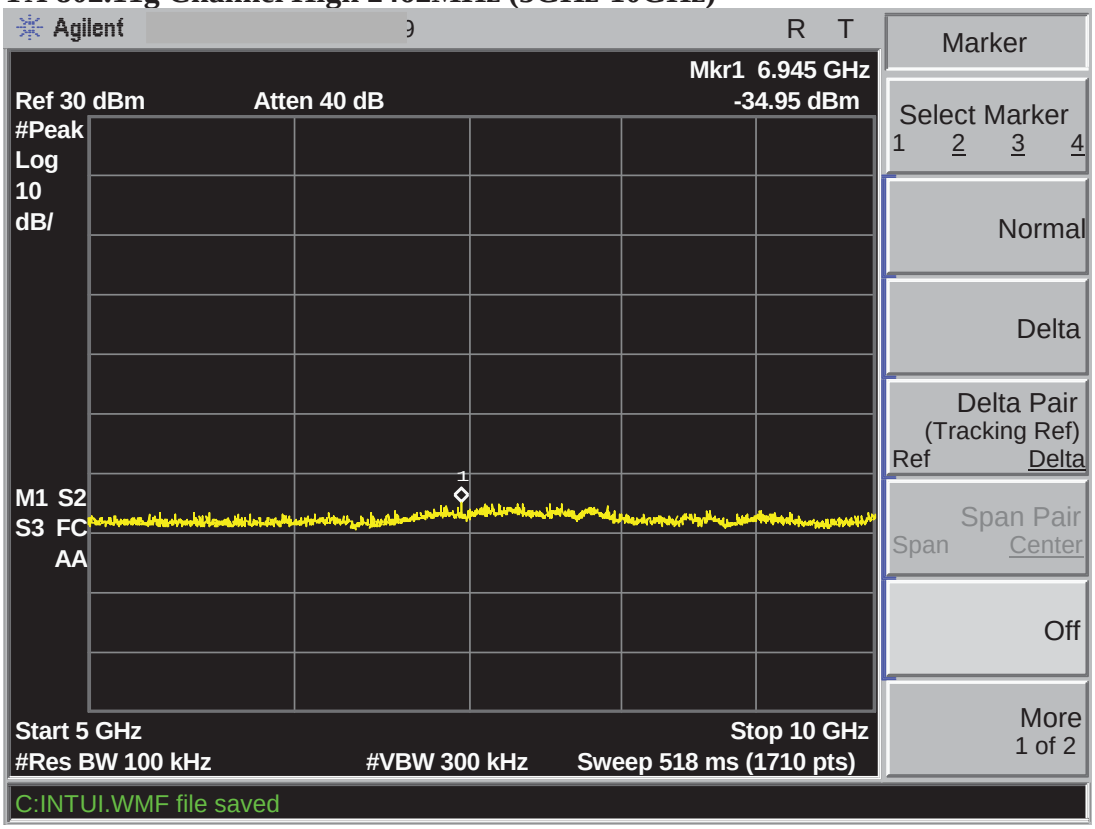
## TX 802.11g Channel High 2462MHz (30MHz-1GHz)



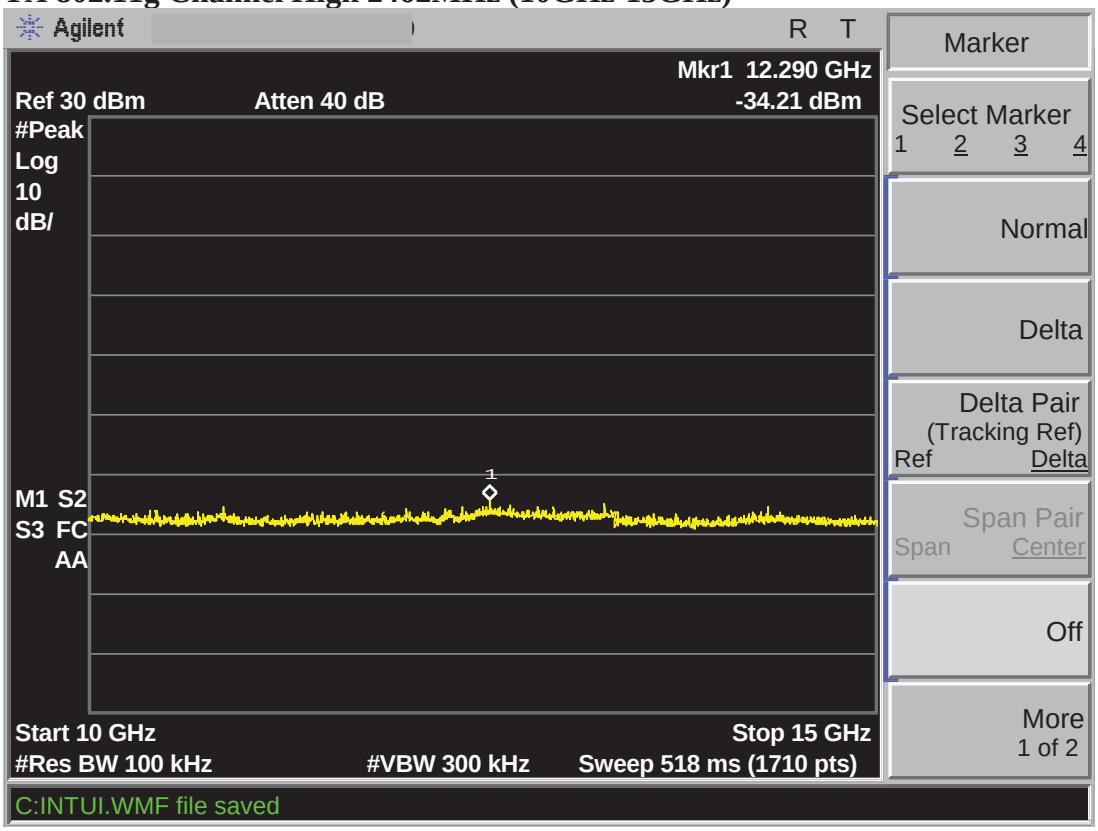

## TX 802.11g Channel High 2462MHz (1GHz-5GHz)



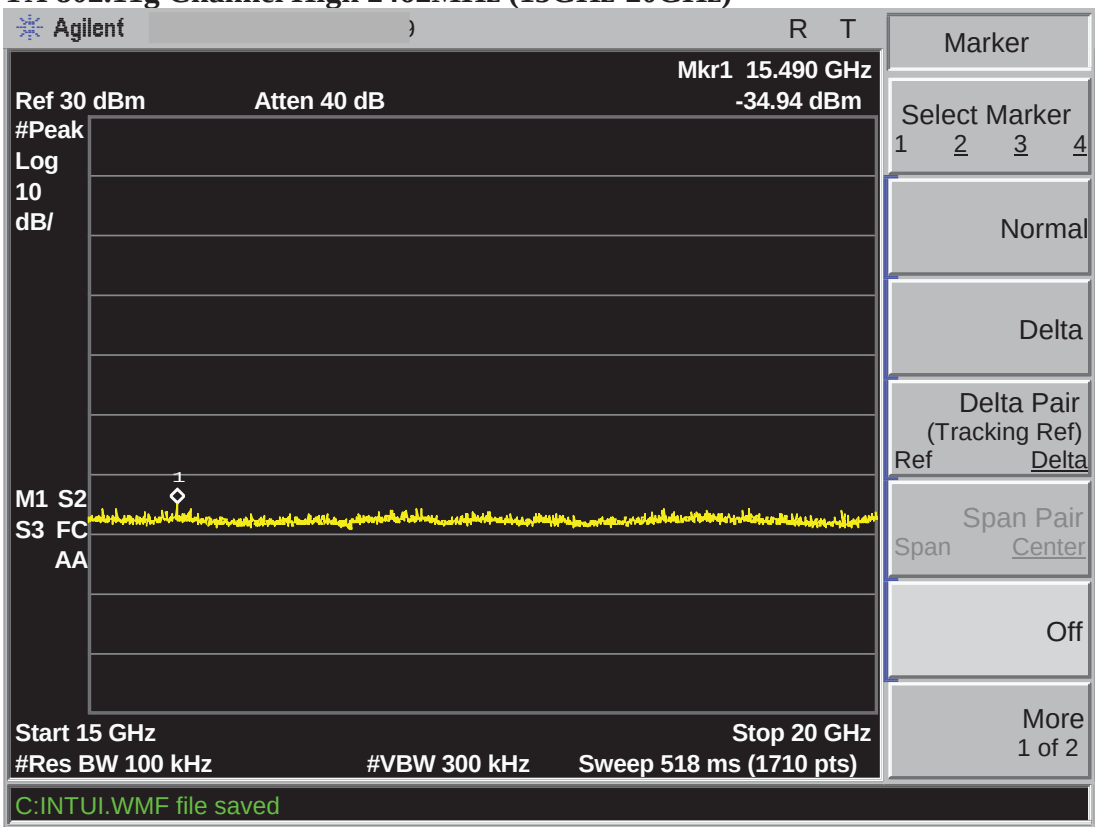
## TX 802.11g Channel High 2462MHz (5GHz-10GHz)



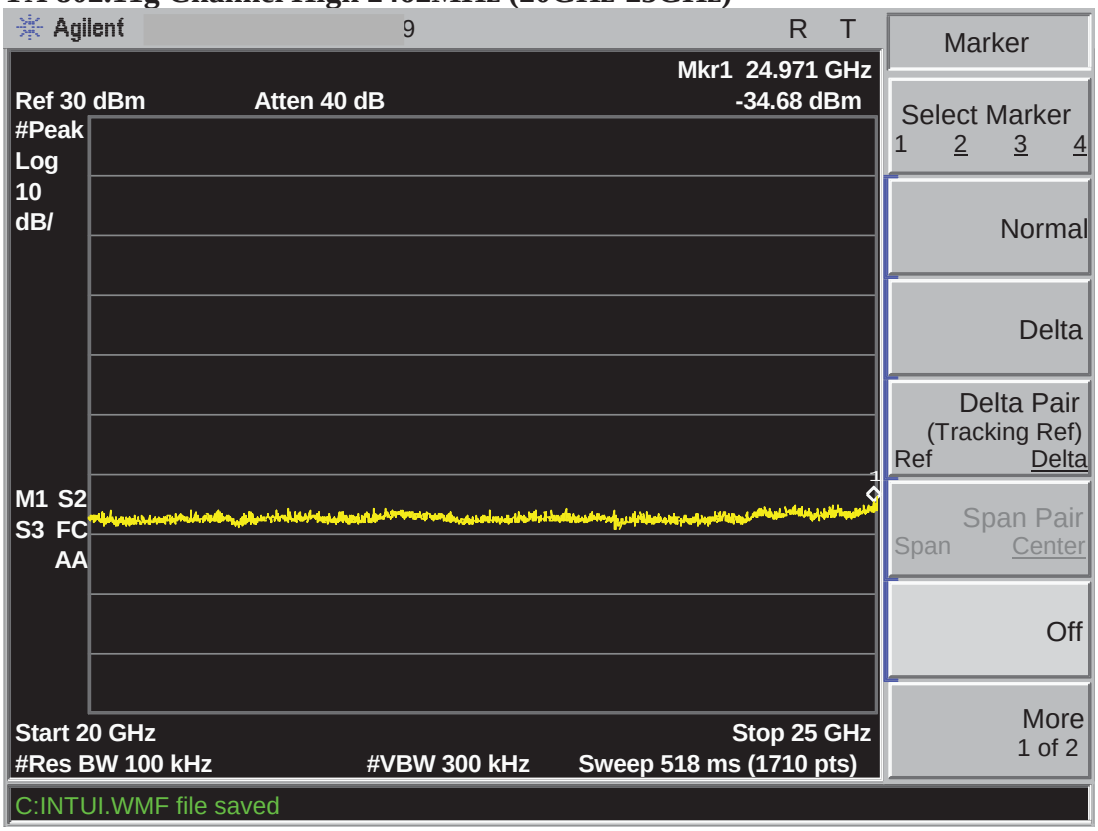

## TX 802.11g Channel High 2462MHz (10GHz-15GHz)



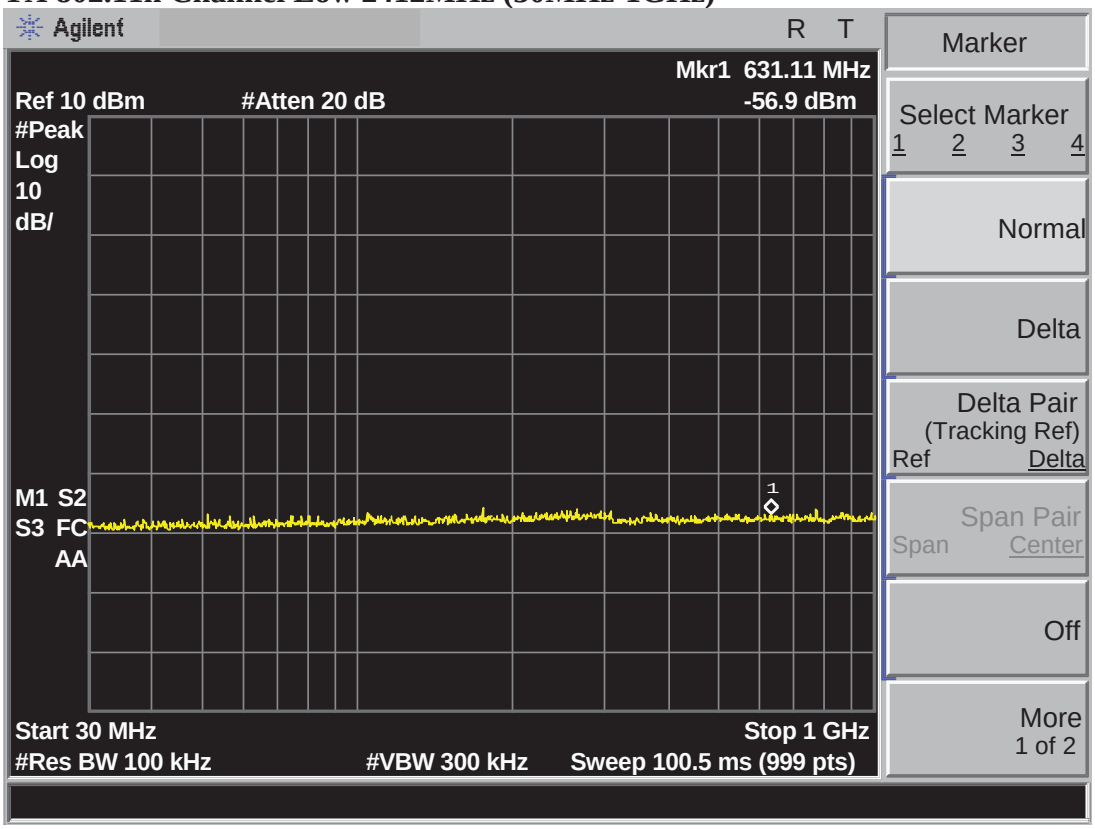
## TX 802.11g Channel High 2462MHz (15GHz-20GHz)



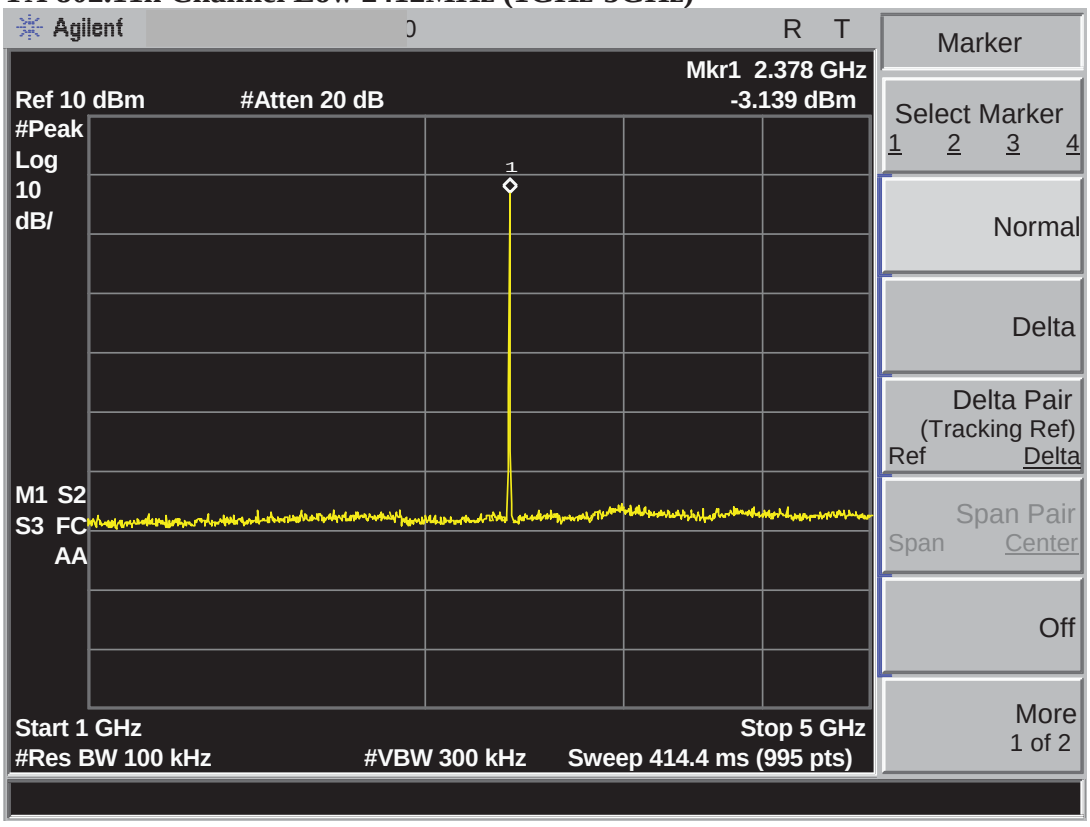

## TX 802.11g Channel High 2462MHz (20GHz-25GHz)



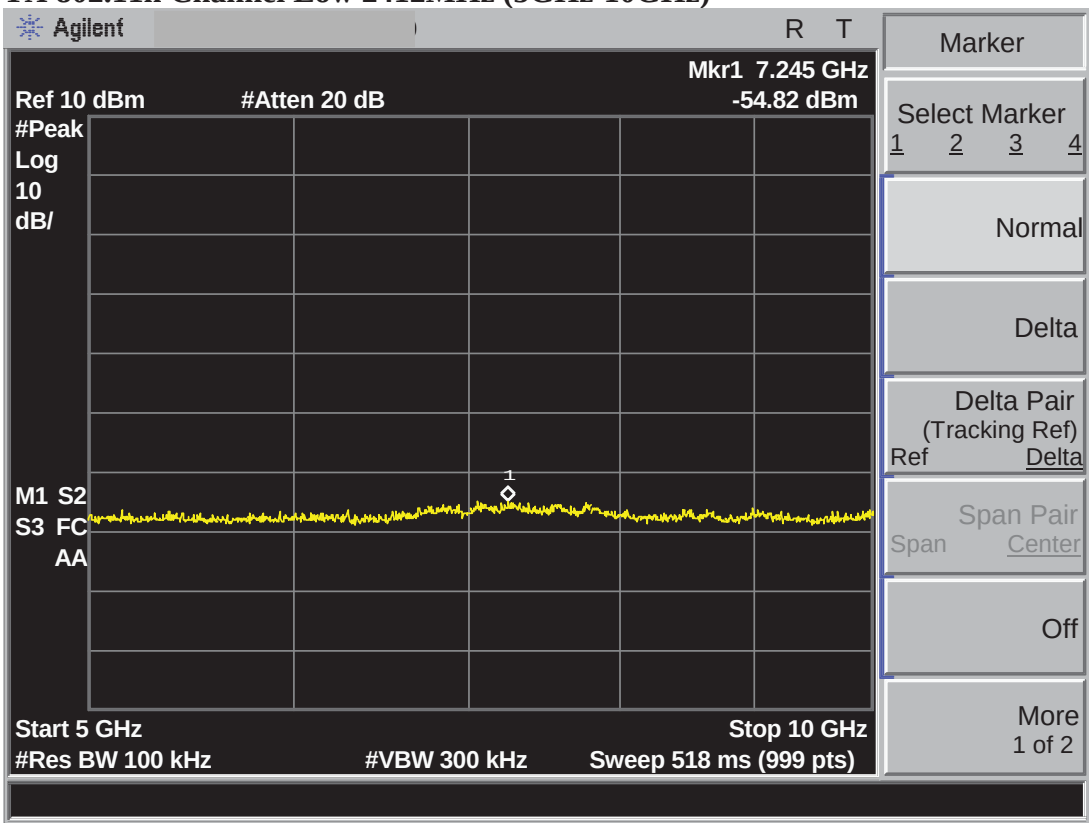
## TX 802.11n Channel Low 2412MHz (30MHz-1GHz)



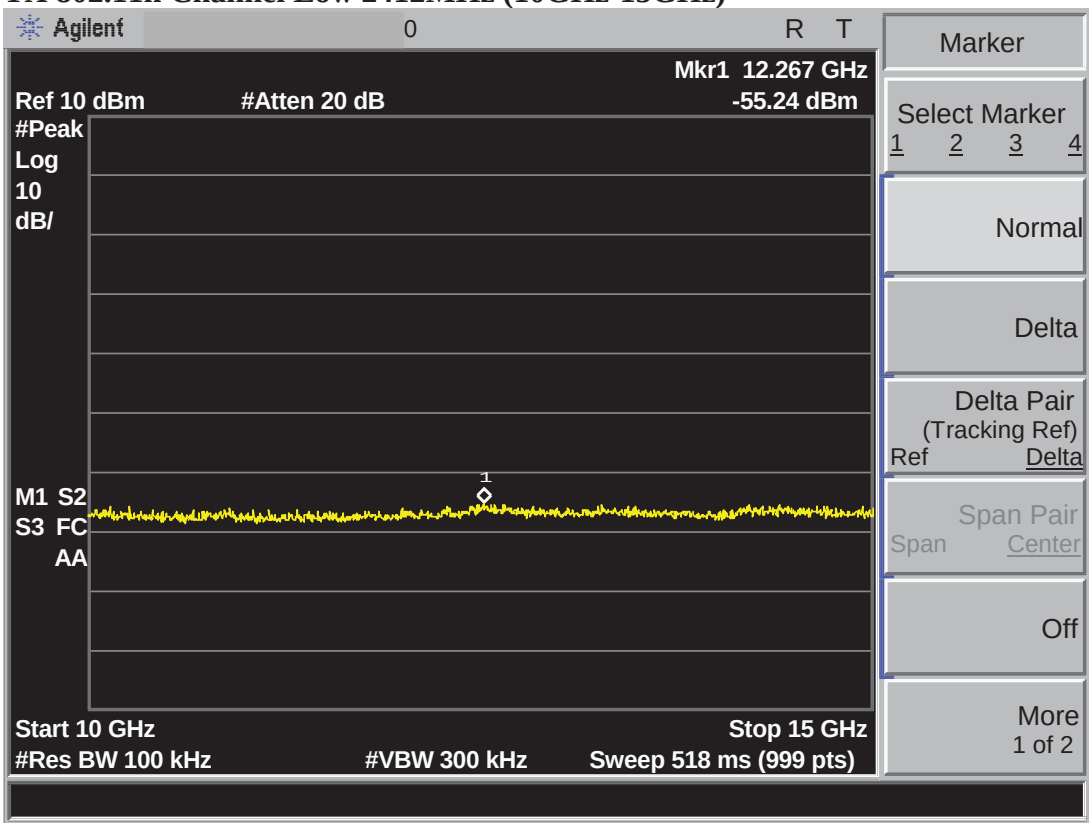

## TX 802.11n Channel Low 2412MHz (1GHz-5GHz)



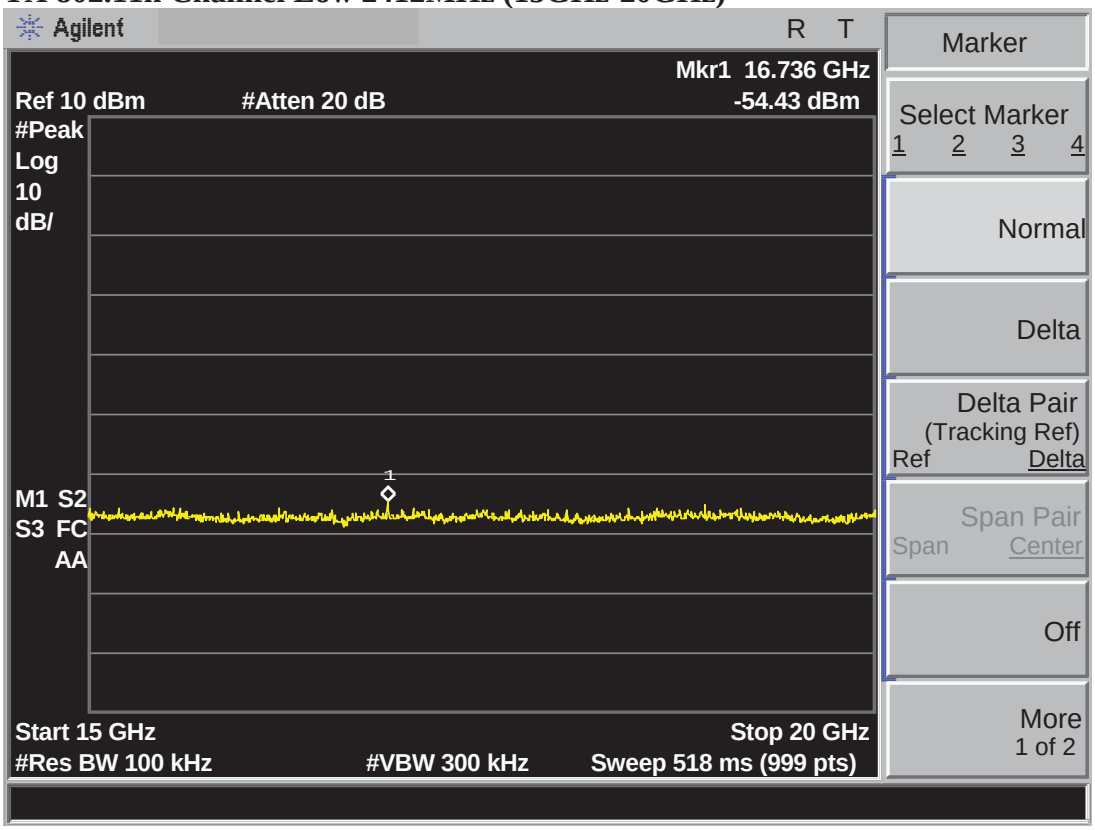
## TX 802.11n Channel Low 2412MHz (5GHz-10GHz)



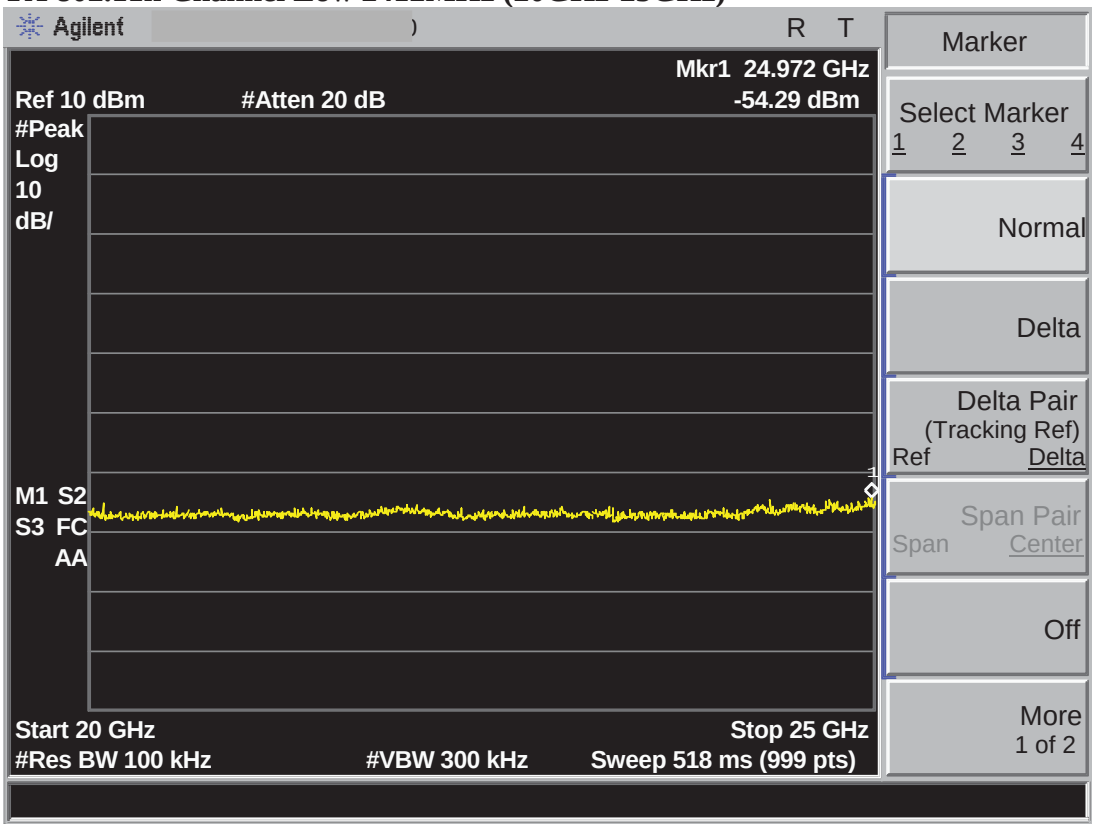

## TX 802.11n Channel Low 2412MHz (10GHz-15GHz)



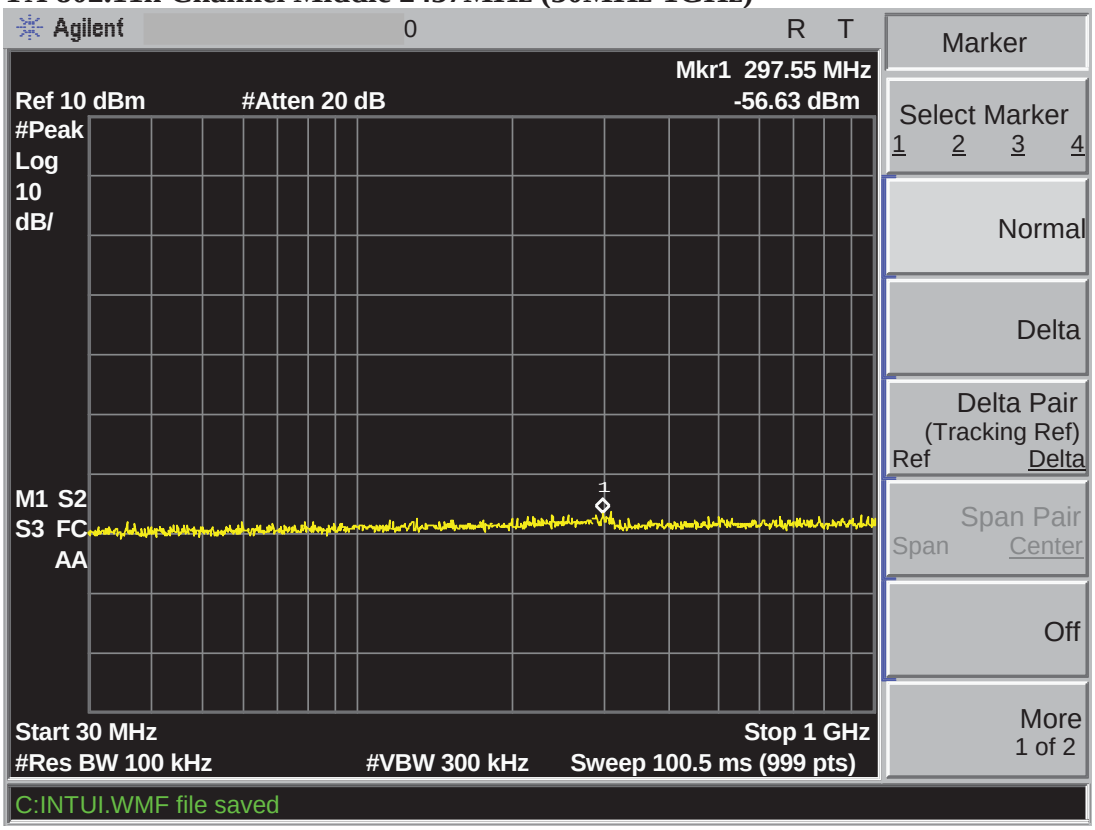
## TX 802.11n Channel Low 2412MHz (15GHz-20GHz)



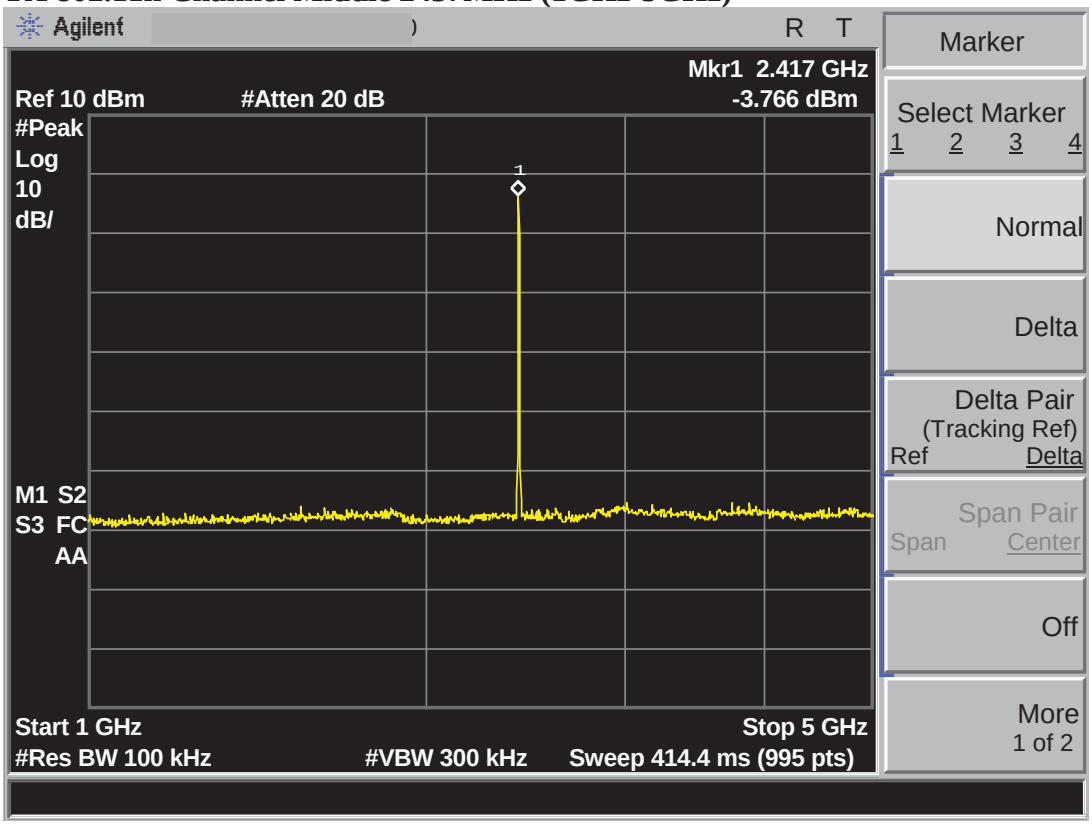

## TX 802.11n Channel Low 2412MHz (20GHz-25GHz)



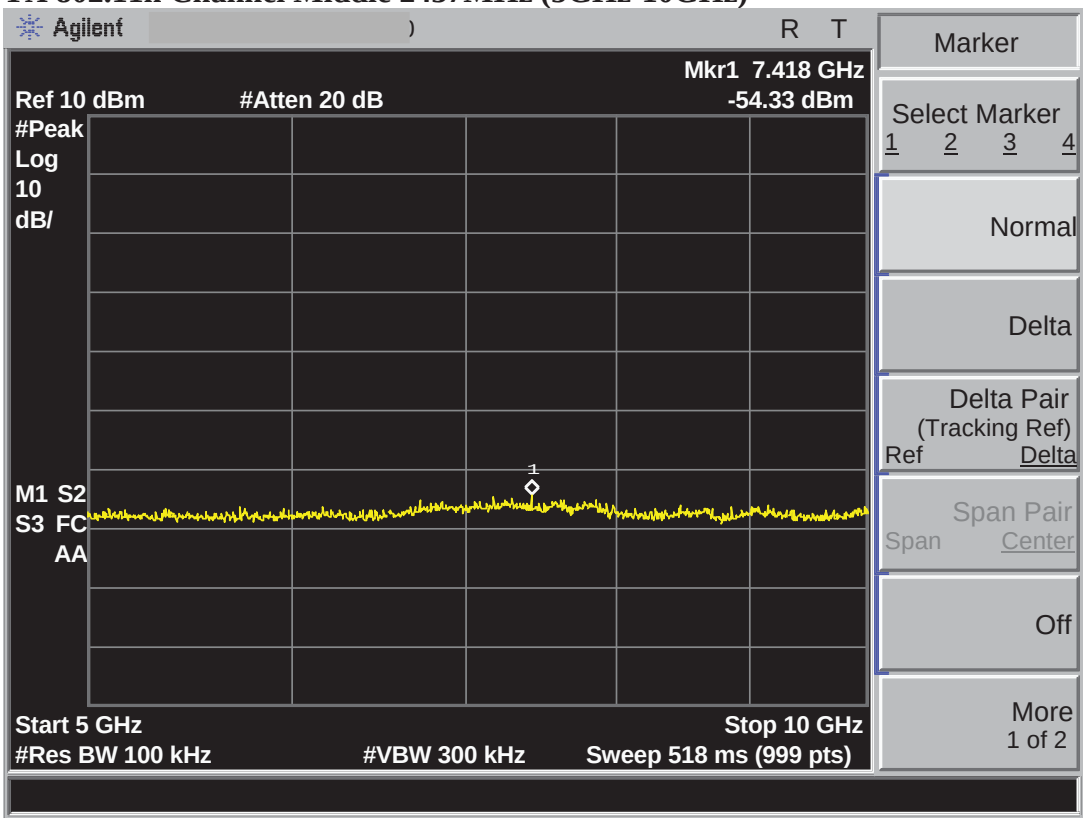
## TX 802.11n Channel Middle 2437MHz (30MHz-1GHz)



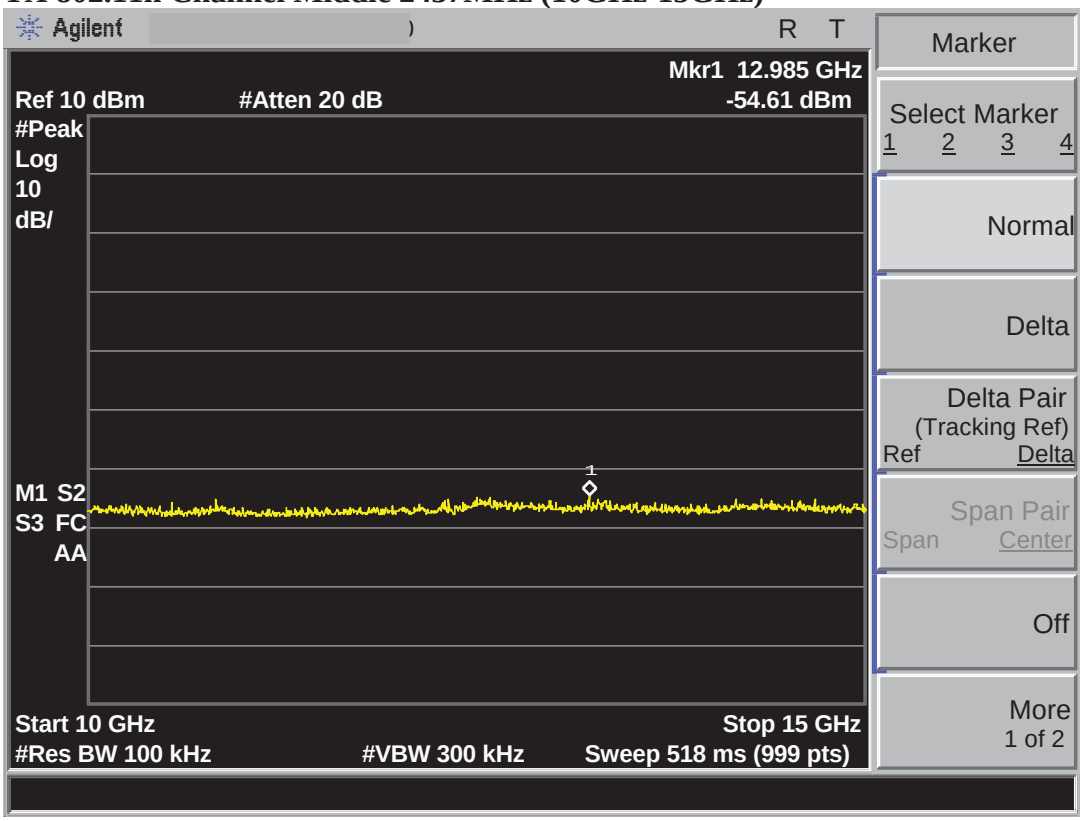

## TX 802.11n Channel Middle 2437MHz (1GHz-5GHz)



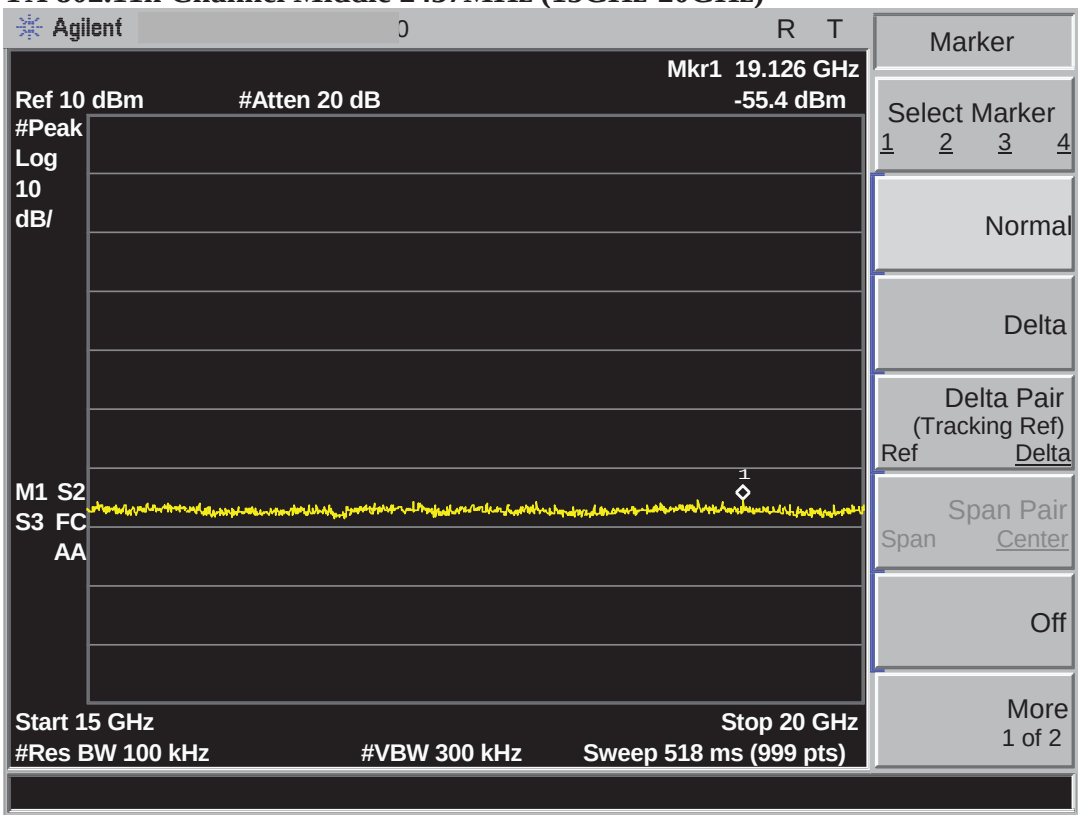
## TX 802.11n Channel Middle 2437MHz (5GHz-10GHz)



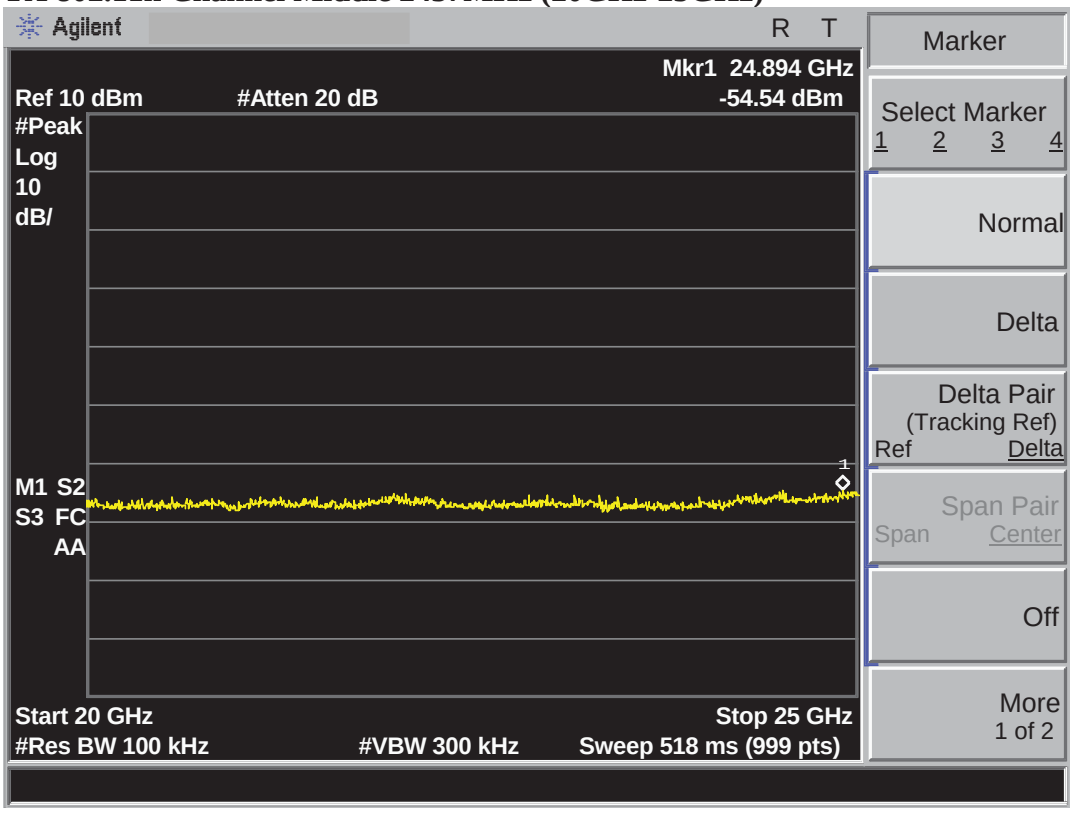

## TX 802.11n Channel Middle 2437MHz (10GHz-15GHz)



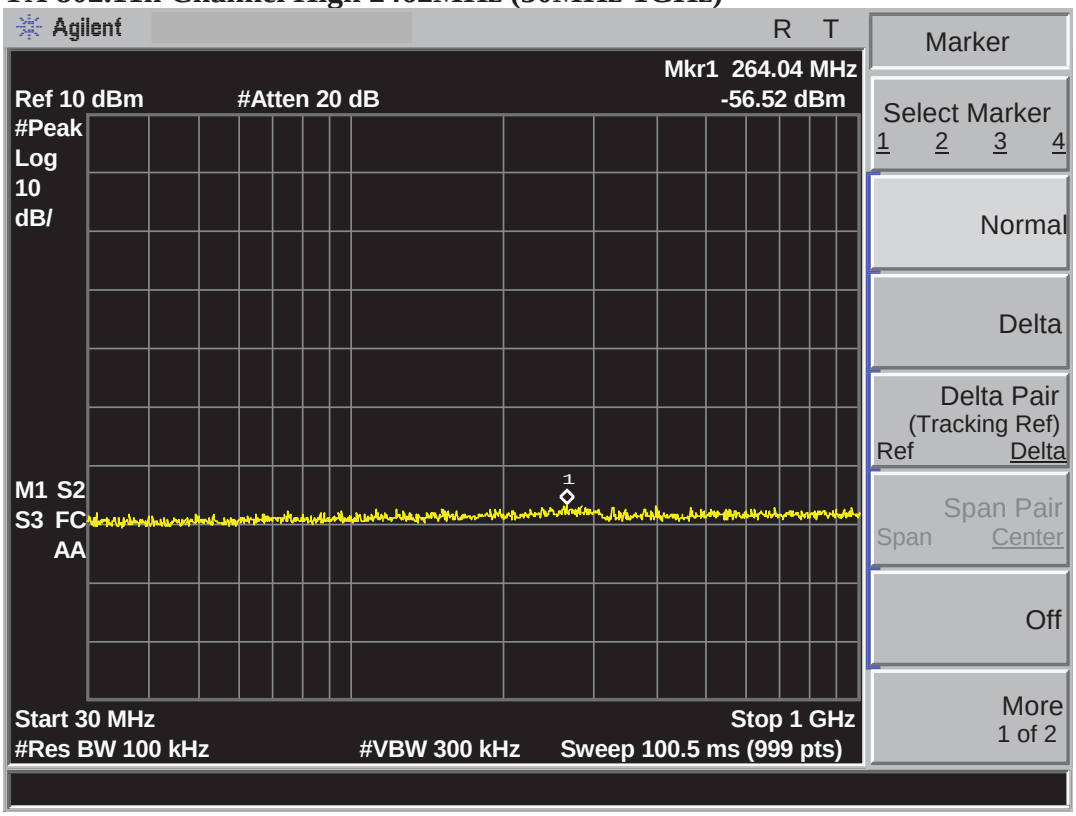
## TX 802.11n Channel Middle 2437MHz (15GHz-20GHz)



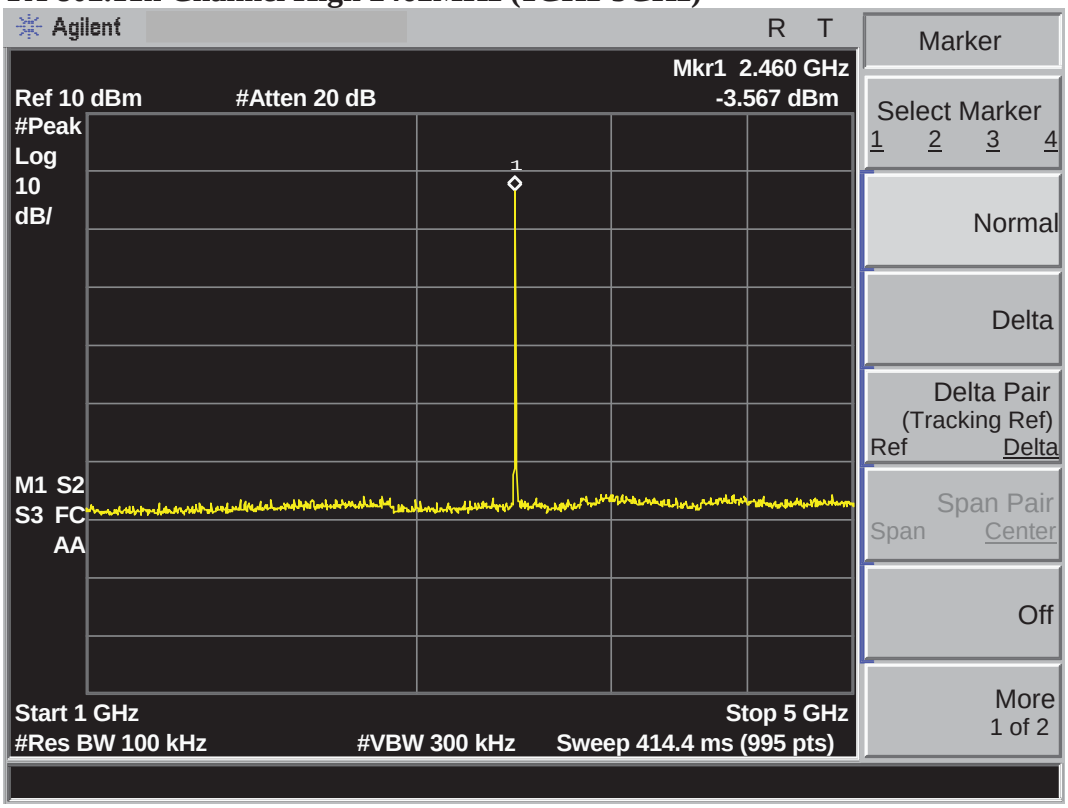

## TX 802.11n Channel Middle 2437MHz (20GHz-25GHz)



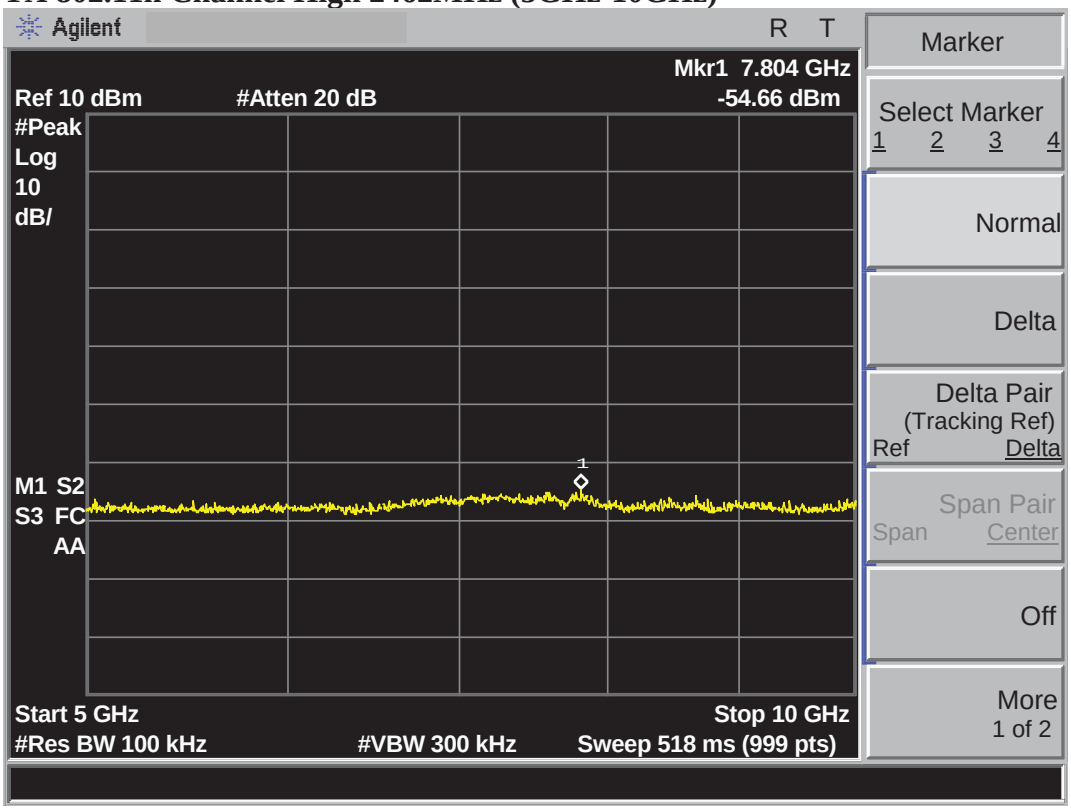
## TX 802.11n Channel High 2462MHz (30MHz-1GHz)



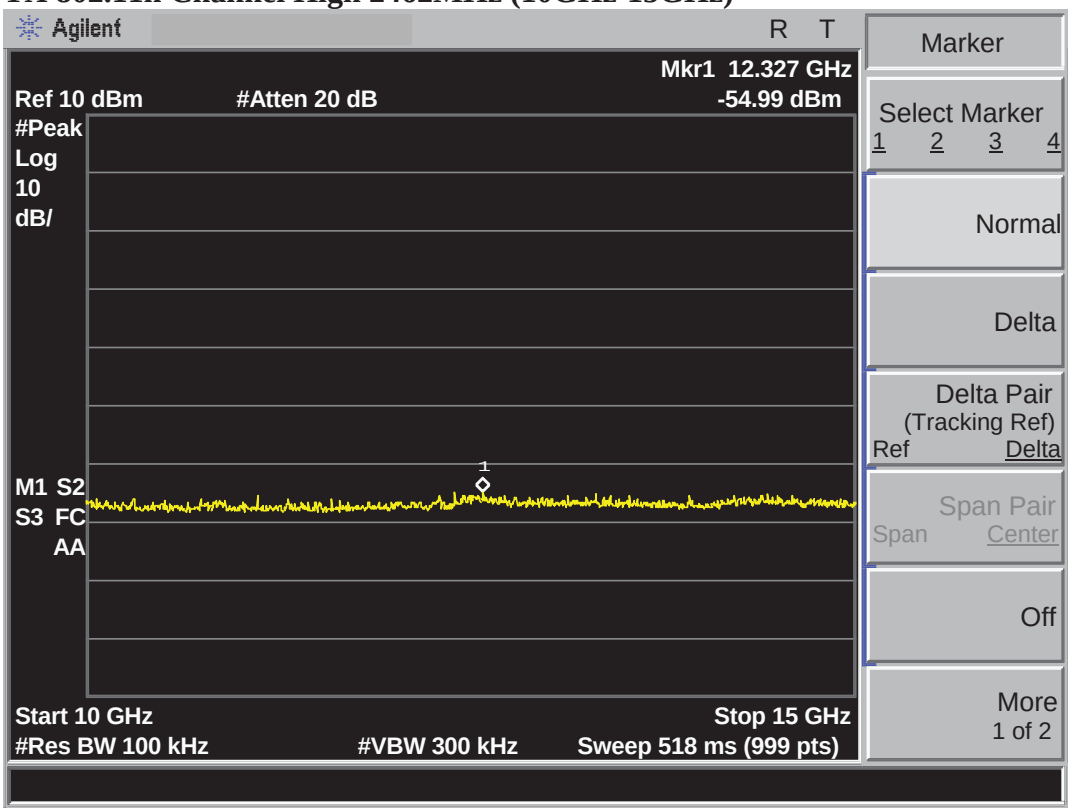

## TX 802.11n Channel High 2462MHz (1GHz-5GHz)



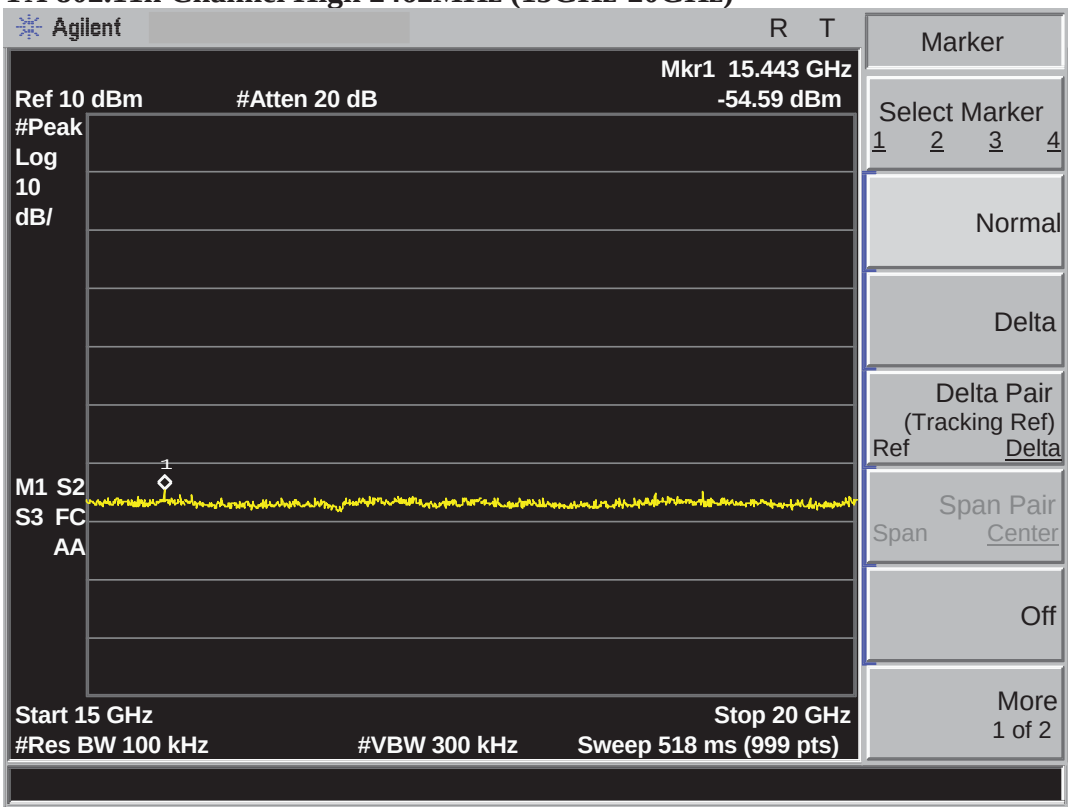
## TX 802.11n Channel High 2462MHz (5GHz-10GHz)



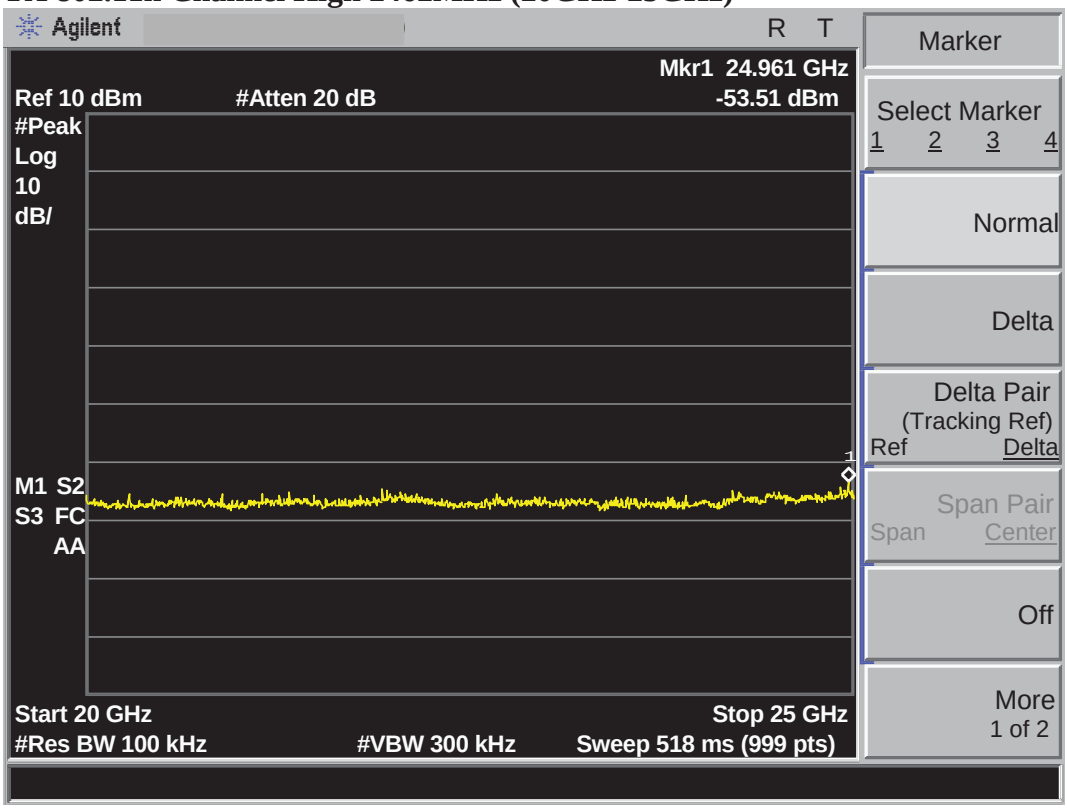

## TX 802.11n Channel High 2462MHz (10GHz-15GHz)



## TX 802.11n Channel High 2462MHz (15GHz-20GHz)



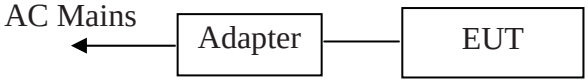

## TX 802.11n Channel High 2462MHz (20GHz-25GHz)



# 11. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

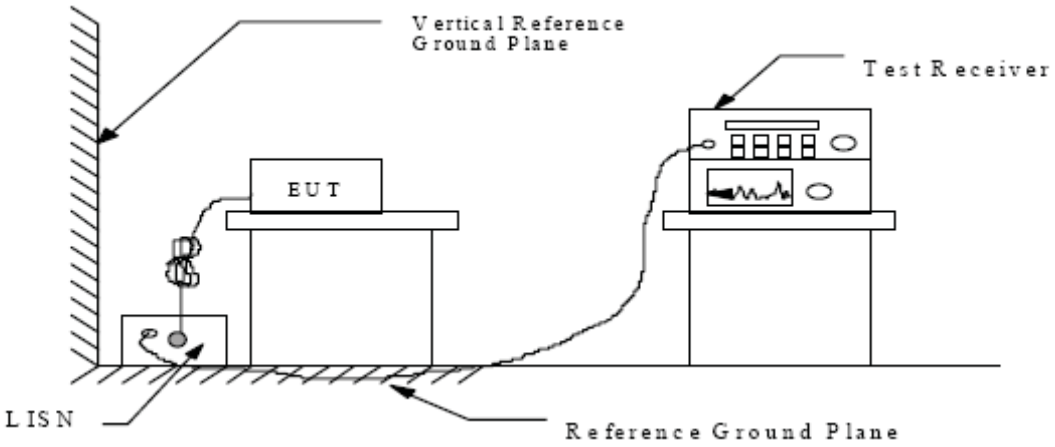
## 11.1. Block Diagram of Test Setup

### 11.1.1. Block diagram of connection between the EUT and simulators




(EUT: MID)

### 11.1.2. Shielding Room Test Setup Diagram




(EUT: MID)

## 11.2. The Emission Limit

### 11.2.1. Conducted Emission Measurement Limits According to Section 15.207(a)

| Frequency (MHz) | Limit dB(μV) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 – 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |

* Decreases with the logarithm of the frequency.

## 11.3.Configuration of EUT on Measurement

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

11.3.1.MID (EUT)

| | | |
|---|---|---|
| Model Number | : | GN32 |
| Serial Number | : | N/A |
| Manufacturer | : | Shenzhen Leader Digital-tech Weitong Co., Ltd. |

## 11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (802.11b Channel Middle, 802.11g Channel Middle, 802.11n Channel Middle) mode measure it.

## 11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

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

## 11.6.Power Line Conducted Emission Measurement Results

**PASS.**

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

| | | | |
|---|---|---|---|
| Date of Test: | January 19, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX 802.11b Channel Middle | Test Engineer: | Pei |

| Frequency (MHz) | Result (dBμV) | Limit (dBμV) | Margin (dB) | Detector | Line |
|---|---|---|---|---|---|
| 0.613500 | 32.70 | 56 | -23.3 | QP | Neutral |
| 1.563000 | 34.10 | 56 | -21.9 | QP | |
| 12.646500 | 47.00 | 60 | -13.0 | QP | |
| 12.574500 | 42.30 | 50 | -7.7 | AV | |
| 12.579000 | 45.20 | 50 | -4.8 | AV | |
| 12.849000 | 44.20 | 50 | -5.8 | AV | |
| 0.613500 | 32.70 | 56 | -23.3 | QP | Live |
| 1.35000 | 35.30 | 56 | -20.7 | QP | |
| 12.763500 | 47.20 | 60 | -12.8 | QP | |
| 1.356000 | 30.70 | 46 | -15.3 | AV | |
| 12.493500 | 45.80 | 50 | -4.2 | AV | |
| 12.768000 | 47.30 | 50 | -2.7 | AV | |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

| | | | |
|---|---|---|---|
| Date of Test: | January 19, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX 802.11g Channel Middle | Test Engineer: | Pei |

| Frequency (MHz) | Result (dBμV) | Limit (dBμV) | Margin (dB) | Detector | Line |
|---|---|---|---|---|---|
| 0.338664 | 37.40 | 59 | -21.6 | QP | Neutral |
| 0.613892 | 32.40 | 56 | -23.6 | QP | |
| 12.503887 | 39.90 | 60 | -20.1 | QP | |
| 11.966695 | 42.90 | 50 | -7.1 | AV | |
| 12.305810 | 42.40 | 50 | -7.6 | AV | |
| 12.503887 | 32.90 | 50 | -17.1 | AV | |
| 0.337314 | 37.20 | 59 | -21.8 | QP | Live |
| 0.613892 | 32.60 | 56 | -23.4 | QP | |
| 12.705153 | 47.30 | 60 | -12.7 | QP | |
| 11.683472 | 42.70 | 50 | -7.3 | AV | |
| 12.159314 | 45.00 | 50 | -5.0 | AV | |
| 12.705153 | 46.90 | 50 | -3.1 | AV | |

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

| | | | |
|---|---|---|---|
| Date of Test: | January 11, 2012 | Temperature: | 25°C |
| EUT: | MID | Humidity: | 50% |
| Model No.: | GN32 | Power Supply: | AC 120V/60Hz |
| Test Mode: | TX 802.11n Channel Middle | Test Engineer: | Pei |

| Frequency (MHz) | Result (dBμV) | Limit (dBμV) | Margin (dB) | Detector | Line |
|---|---|---|---|---|---|
| 0.611446 | 34.00 | 56 | -22.0 | QP | Neutral |
| 0.882795 | 31.90 | 56 | -24.1 | QP | |
| 12.454071 | 46.10 | 60 | -13.9 | QP | |
| 0.406930 | 35.50 | 48 | -12.5 | AV | |
| 2.107702 | 30.20 | 46 | -15.8 | AV | |
| 12.454071 | 42.50 | 50 | -7.5 | AV | |
| 0.338664 | 37.30 | 59 | -21.7 | QP | Live |
| 4.835277 | 30.50 | 56 | -25.5 | QP | |
| 12.654535 | 46.50 | 60 | -13.5 | QP | |
| 0.406930 | 35.80 | 48 | -12.2 | AV | |
| 3.335693 | 31.20 | 46 | -14.8 | AV | |
| 12.654535 | 44.70 | 50 | -5.3 | AV | |

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

**ACCURATE TECHNOLOGY CO.,LTD**

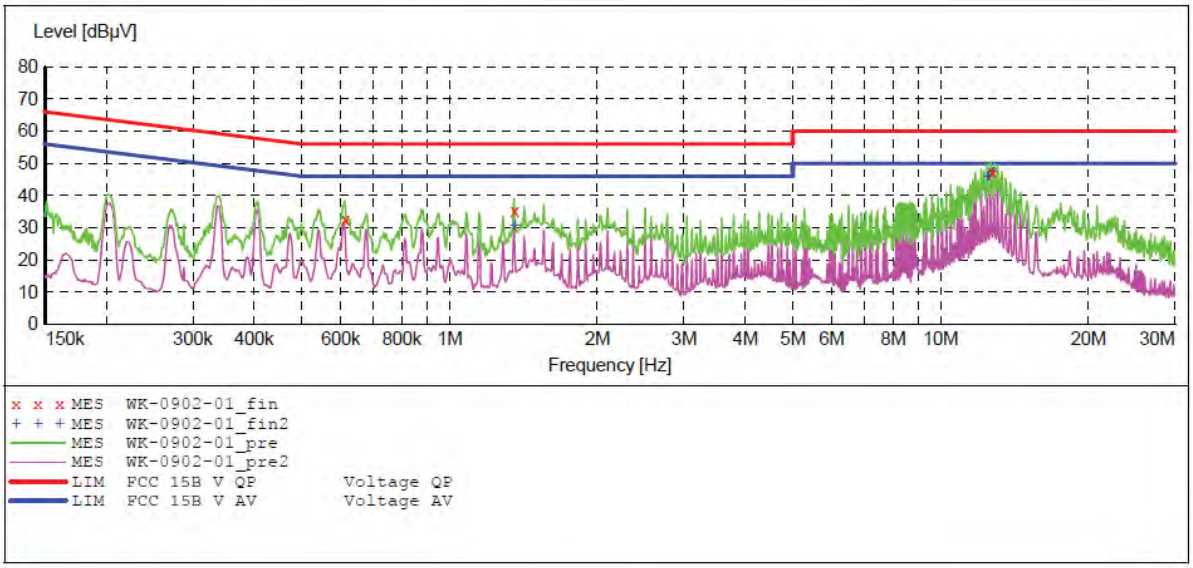
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GN32
Manufacturer: Leader Digital-tech Weitong
Operating Condition: TX Channel 6 (802.11b)
Test Site: 1#Shielding Room
Operator: Bob
Test Specification: L 120V/60Hz
Comment: Mains port
Report No.:ATE20120034

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: _SUB_STD_VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 150.0 kHz | 30.0 MHz | 0.8 % | QuasiPeak<br>Average | 1.0 s | 9 kHz | NSLK8126 2008 |




**MEASUREMENT RESULT: "WK-0902-01_fin"**

1/19/2012 10:16AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.613500 | 32.70 | 12.0 | 56 | 23.3 | QP | L1 | GND |
| 1.356000 | 35.30 | 11.8 | 56 | 20.7 | QP | L1 | GND |
| 12.763500 | 47.20 | 11.2 | 60 | 12.8 | QP | L1 | GND |

**MEASUREMENT RESULT: "WK-0902-01_fin2"**

1/19/2012 10:16AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 1.356000 | 30.70 | 11.8 | 46 | 15.3 | AV | L1 | GND |
| 12.493500 | 45.80 | 11.2 | 50 | 4.2 | AV | L1 | GND |
| 12.768000 | 47.30 | 11.2 | 50 | 2.7 | AV | L1 | GND |

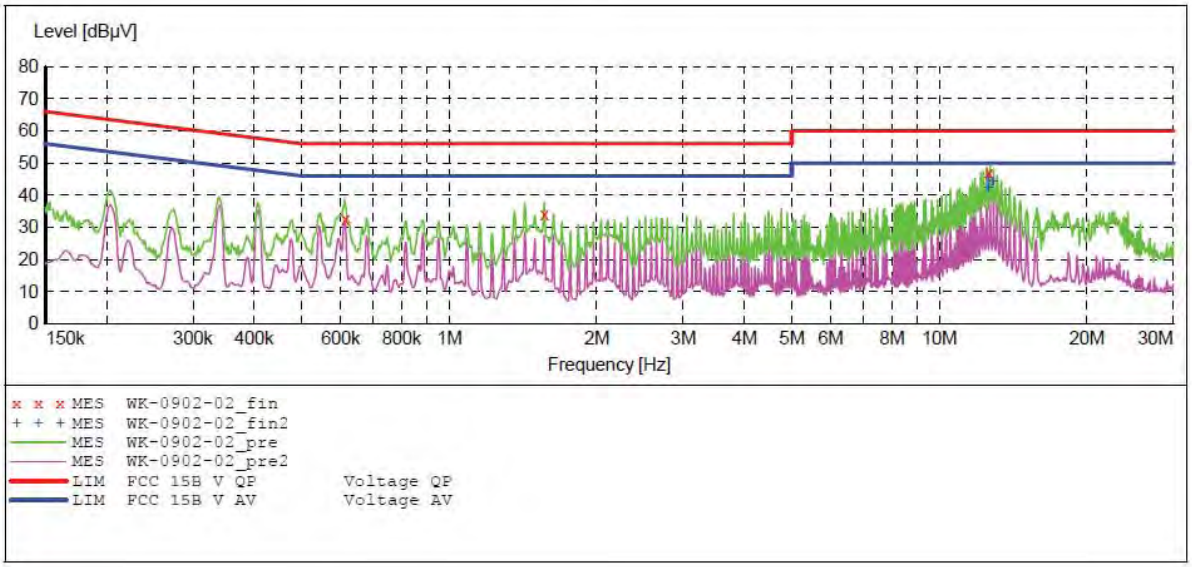
***ACCURATE TECHNOLOGY CO.,LTD***

***CONDUCTED EMISSION STANDARD FCC PART 15 B***

```
EUT:                  MID    M/N:GN32
Manufacturer:         Leader Digital-tech Weitong
Operating Condition:  TX Channel 6 (802.11b)
Test Site:            1#Shielding Room
Operator:             Bob
Test Specification:   N 120V/60Hz
Comment:              Mains port
                      Report No.:ATE20120034
```

***SCAN TABLE: "V  150K-30MHz fin"***

```
  Short Description:                _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  150.0 kHz  30.0 MHz   0.8 %       QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                    Average
```




***MEASUREMENT RESULT: "WK-0902-02_fin"***

1/19/2012 10:23AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.613500 | 32.70 | 12.0 | 56 | 23.3 | QP | N | GND |
| 1.563000 | 34.10 | 11.7 | 56 | 21.9 | QP | N | GND |
| 12.646500 | 47.00 | 11.2 | 60 | 13.0 | QP | N | GND |

***MEASUREMENT RESULT: "WK-0902-02_fin2"***

1/19/2012 10:23AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 12.574500 | 42.30 | 11.2 | 50 | 7.7 | AV | N | GND |
| 12.579000 | 45.20 | 11.2 | 50 | 4.8 | AV | N | GND |
| 12.849000 | 44.20 | 11.2 | 50 | 5.8 | AV | N | GND |

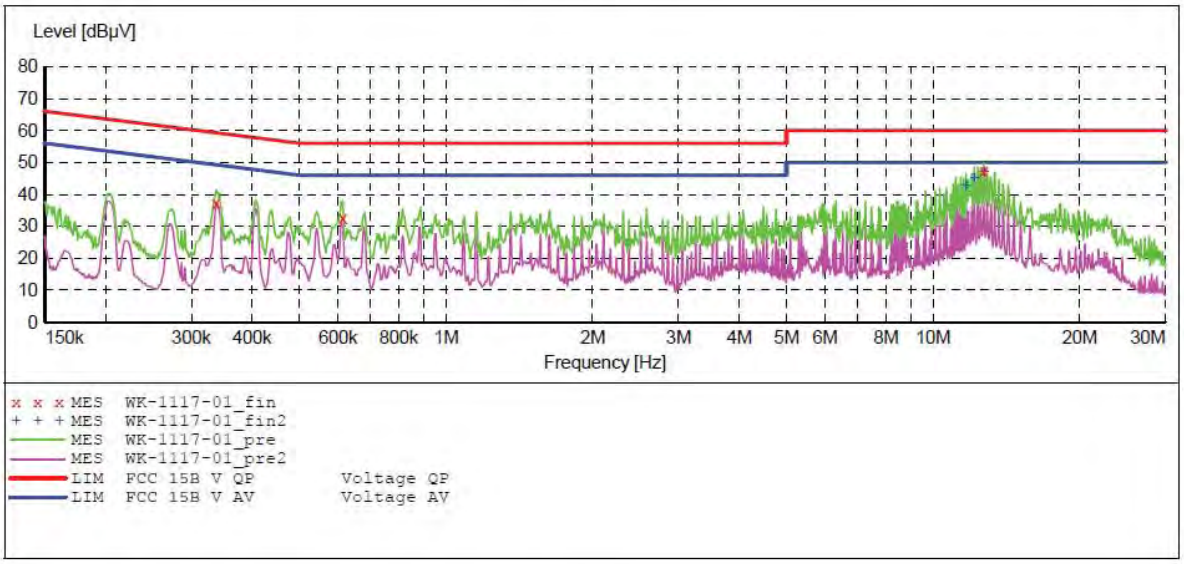
***ACCURATE TECHNOLOGY CO.,LTD***

***CONDUCTED EMISSION STANDARD FCC PART 15 B***

```
EUT:                    MID    M/N:GN32
Manufacturer:           Leader Digital-tech Weitong
Operating Condition:    TX Channel 6 (802.11g)
Test Site:              1#Shielding Room
Operator:               Bob
Test Specification:     L 120V/60Hz
Comment:                Mains port
                        Report No.:ATE20120034
```

***SCAN TABLE: "V  150K-30MHz fin"***

```
  Short Description:                SUB STD VTERM2 1.70
  Start       Stop        Step        Detector  Meas.     IF       Transducer
  Frequency   Frequency   Width                 Time      Bandw.
  150.0 kHz   30.0 MHz    0.8 %       QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                      Average
```




***MEASUREMENT RESULT: "WK-1117-01_fin"***

```
1/19/2012  9:49AM
  Frequency     Level  Transd  Limit  Margin  Detector  Line   PE
        MHz     dBµV      dB   dBµV      dB

   0.337314     37.20    11.7     59    21.8  QP        L1     GND
   0.613892     32.60    11.9     56    23.4  QP        L1     GND
  12.705153     47.30    11.2     60    12.7  QP        L1     GND
```

***MEASUREMENT RESULT: "WK-1117-01_fin2"***

```
1/19/2012  9:49AM
  Frequency     Level  Transd  Limit  Margin  Detector  Line   PE
        MHz     dBµV      dB   dBµV      dB

  11.683472     42.70    11.2     50     7.3  AV        L1     GND
  12.159314     45.00    11.2     50     5.0  AV        L1     GND
  12.705153     46.90    11.2     50     3.1  AV        L1     GND
```

**ACCURATE TECHNOLOGY CO.,LTD**

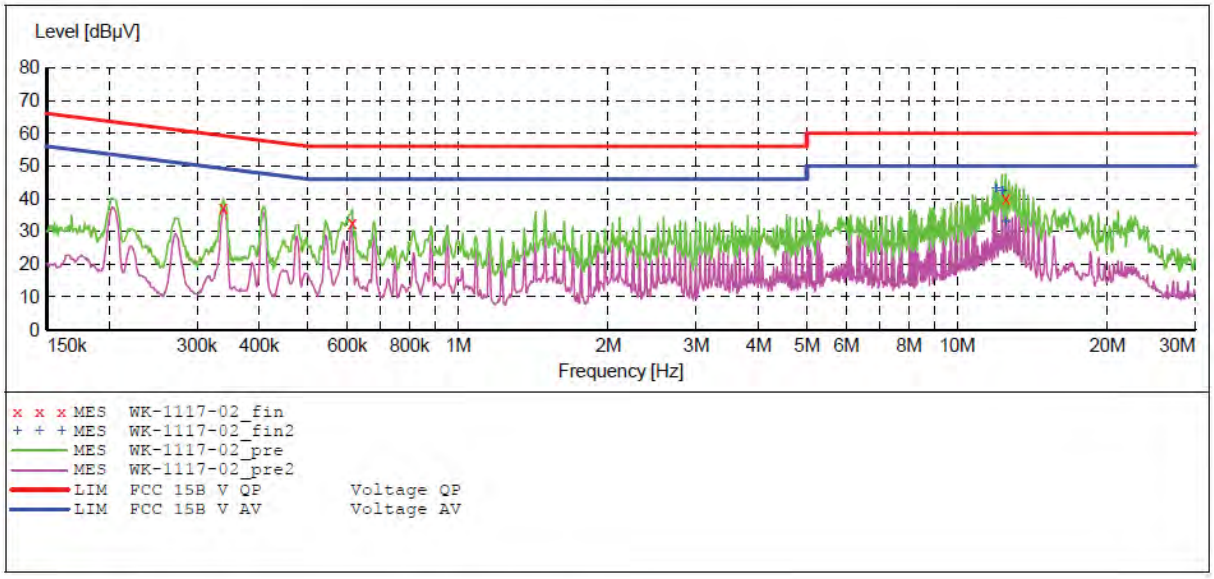
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GN32
Manufacturer: Leader Digital-tech Weitong
Operating Condition: TX Channel 6 (802.11g)
Test Site: 1#Shielding Room
Operator: Bob
Test Specification: N 120V/60Hz
Comment: Mains port
Report No.:ATE20120034

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 150.0 kHz | 30.0 MHz | 0.8 % | QuasiPeak<br>Average | 1.0 s | 9 kHz | NSLK8126 2008 |




**MEASUREMENT RESULT: "WK-1117-02_fin"**

1/19/2012 9:52AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.338664 | 37.40 | 11.7 | 59 | 21.6 | QP | N | GND |
| 0.613892 | 32.40 | 11.9 | 56 | 23.6 | QP | N | GND |
| 12.503887 | 39.90 | 11.2 | 60 | 20.1 | QP | N | GND |

**MEASUREMENT RESULT: "WK-1117-02_fin2"**

1/19/2012 9:52AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 11.966695 | 42.90 | 11.2 | 50 | 7.1 | AV | N | GND |
| 12.305810 | 42.40 | 11.2 | 50 | 7.6 | AV | N | GND |
| 12.503887 | 32.90 | 11.2 | 50 | 17.1 | AV | N | GND |

**ACCURATE TECHNOLOGY CO.,LTD**

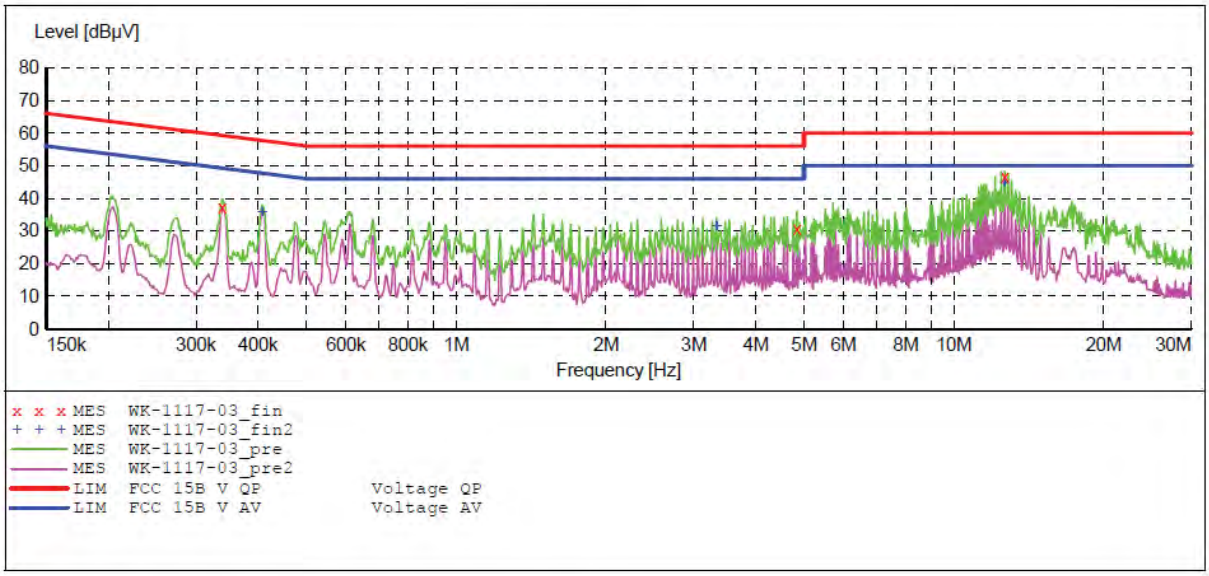
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

| | |
|---|---|
| EUT: | MID M/N:GN32 |
| Manufacturer: | Leader Digital-tech Weitong |
| Operating Condition: | TX Channel 6 (802.11n) |
| Test Site: | 1#Shielding Room |
| Operator: | Bob |
| Test Specification: | L 120V/60Hz |
| Comment: | Mains port |
| | Report No.:ATE20120034 |

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 150.0 kHz | 30.0 MHz | 0.8 % | QuasiPeak<br>Average | 1.0 s | 9 kHz | NSLK8126 2008 |




**MEASUREMENT RESULT: "WK-1117-03_fin"**

1/19/2012 10:56AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.338664 | 37.30 | 11.7 | 59 | 21.7 | QP | L1 | GND |
| 4.835277 | 30.50 | 11.4 | 56 | 25.5 | QP | L1 | GND |
| 12.654535 | 46.50 | 11.2 | 60 | 13.5 | QP | L1 | GND |

**MEASUREMENT RESULT: "WK-1117-03_fin2"**

1/19/2012 10:56AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.406930 | 35.80 | 11.8 | 48 | 12.2 | AV | L1 | GND |
| 3.335693 | 31.20 | 11.5 | 46 | 14.8 | AV | L1 | GND |
| 12.654535 | 44.70 | 11.2 | 50 | 5.3 | AV | L1 | GND |

**ACCURATE TECHNOLOGY CO.,LTD**

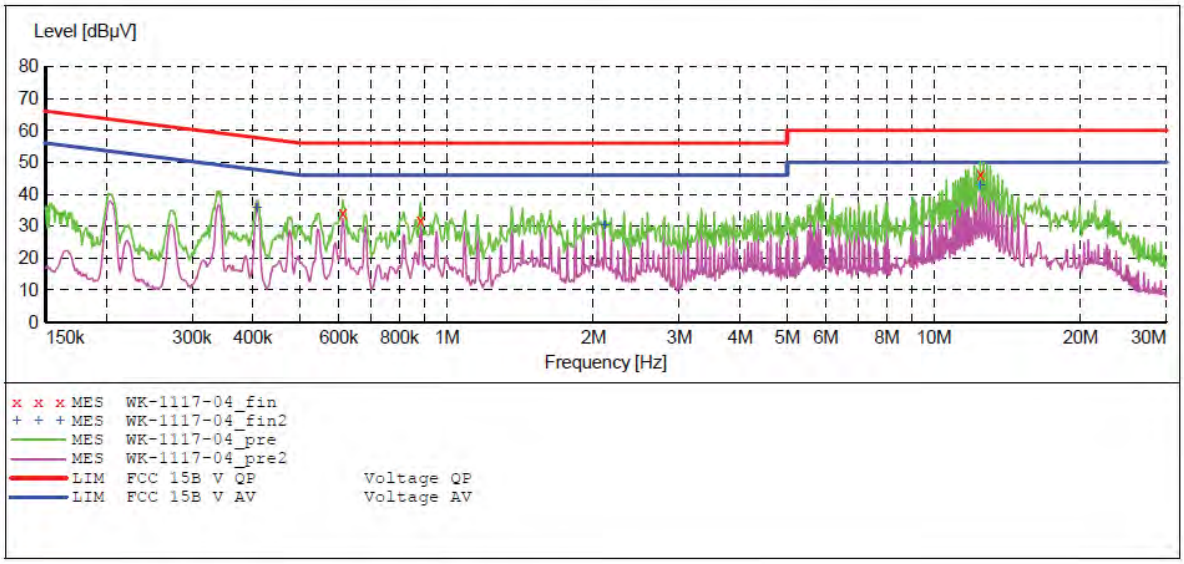
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GN32
Manufacturer: Leader Digital-tech Weitong
Operating Condition: TX Channel 6 (802.11n)
Test Site: 1#Shielding Room
Operator: Bob
Test Specification: N 120V/60Hz
Comment: Mains port
Report No.:ATE20120034

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|---|---|---|---|---|---|---|
| 150.0 kHz | 30.0 MHz | 0.8 % | QuasiPeak<br>Average | 1.0 s | 9 kHz | NSLK8126 2008 |




**MEASUREMENT RESULT: "WK-1117-04_fin"**

1/19/2012 11:00AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.611446 | 34.00 | 12.0 | 56 | 22.0 | QP | N | GND |
| 0.882795 | 31.90 | 11.9 | 56 | 24.1 | QP | N | GND |
| 12.454071 | 46.10 | 11.2 | 60 | 13.9 | QP | N | GND |

**MEASUREMENT RESULT: "WK-1117-04_fin2"**

1/19/2012 11:00AM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.406930 | 35.50 | 11.8 | 48 | 12.5 | AV | N | GND |
| 2.107702 | 30.20 | 11.6 | 46 | 15.8 | AV | N | GND |
| 12.454071 | 42.50 | 11.2 | 50 | 7.5 | AV | N | GND |

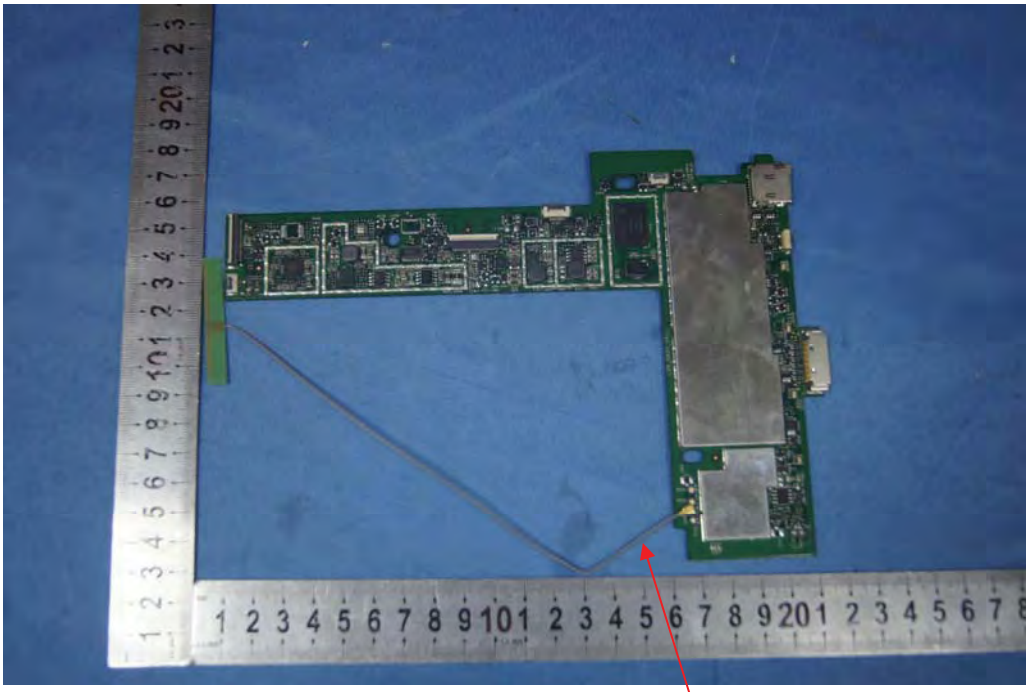
# 12. ANTENNA REQUIREMENT

## 12.1. The Requirement

According to 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.

## 12.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna