

# FCC Test Report

Product Name : Gigabit Router Dual-band Wireless-N900

Model No. : RT-N66U, RT-N66R, RT-N66W

FCC ID. : MSQ-RTN66U

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : 2014/06/11

Issued Date : 2014/06/25

Report No. : 1460423R-RFUSP43V00

Report Version : V1.0



The test results relate only to the samples tested.

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# Test Report Certification

Issued Date : 2014/06/25

Report No. : 1460423R-RFUSP43V00



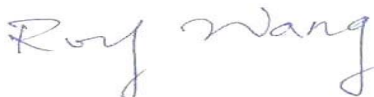
Product Name : Gigabit Router Dual-band Wireless-N900  
 Applicant : ASUSTeK COMPUTER INC.  
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan  
 Manufacturer : Askey Technology (Jiangsu) LTD.  
 Model No. : RT-N66U, RT-N66R, RT-N66W  
 FCC ID. : MSQ-RTN66U  
 EUT Voltage : AC 100-240V, 50-60Hz  
 Trade Name : ASUS  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407:2013  
 ANSI C63.4: 2009  
 Test Result : Complied

The test results relate only to the samples tested.

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 ( Roy Wang / Director )

**Laboratory Information**

We, **QuieTek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Taiwan R.O.C.</b> | <b>: TAF, Accreditation Number: 1313</b>  |
| <b>USA</b>           | <b>: FCC, Registration Number: 365520</b> |
| <b>Canada</b>        | <b>: IC, Submission No: 150981</b>        |

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site:<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site :  
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If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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# TABLE OF CONTENTS

| Description                                 | Page      |
|---------------------------------------------|-----------|
| <b>1. General Information.....</b>          | <b>6</b>  |
| 1.1. EUT Description .....                  | 6         |
| 1.2. Test Mode.....                         | 12        |
| 1.3. Tested System Details.....             | 13        |
| 1.4. Configuration of tested System .....   | 14        |
| 1.5. EUT Exercise Software .....            | 14        |
| 1.6. Test Facility .....                    | 15        |
| <b>2. Conducted Emission .....</b>          | <b>16</b> |
| 2.1. Test Equipment .....                   | 16        |
| 2.2. Test Setup .....                       | 16        |
| 2.3. Limits.....                            | 17        |
| 2.4. Test Procedure .....                   | 17        |
| 2.5. Test Specification .....               | 17        |
| 2.6. Uncertainty .....                      | 17        |
| 2.7. Test Result .....                      | 18        |
| 2.8. Test Photo .....                       | 22        |
| <b>3. 99% &amp; 26dB Bandwidth.....</b>     | <b>24</b> |
| 3.1. Test Equipment .....                   | 24        |
| 3.2. Test Setup .....                       | 24        |
| 3.3. Limits.....                            | 24        |
| 3.4. Test Procedure .....                   | 24        |
| 3.5. Uncertainty .....                      | 24        |
| 3.6. Test Result .....                      | 25        |
| <b>4. Peak Transmit Output.....</b>         | <b>49</b> |
| 4.1. Test Equipment .....                   | 49        |
| 4.2. Test Setup .....                       | 49        |
| 4.3. Limits.....                            | 50        |
| 4.4. Test Procedure .....                   | 50        |
| 4.5. Uncertainty .....                      | 50        |
| 4.6. Test Result .....                      | 51        |
| <b>5. Peak Power Spectrum Density .....</b> | <b>87</b> |
| 5.1. Test Equipment .....                   | 87        |
| 5.2. Test Setup .....                       | 87        |

|           |                                 |            |
|-----------|---------------------------------|------------|
| 5.3.      | Limits .....                    | 87         |
| 5.4.      | Test Procedure .....            | 88         |
| 5.5.      | Uncertainty .....               | 88         |
| 5.6.      | Test Result .....               | 89         |
| <b>6.</b> | <b>Radiated Emission.....</b>   | <b>116</b> |
| 6.1.      | Test Equipment .....            | 116        |
| 6.2.      | Test Setup .....                | 116        |
| 6.3.      | Limits .....                    | 117        |
| 6.4.      | Test Procedure .....            | 118        |
| 6.5.      | Uncertainty .....               | 118        |
| 6.6.      | Test Result .....               | 119        |
| 6.7.      | Test Photo .....                | 158        |
| <b>7.</b> | <b>Band Edge .....</b>          | <b>161</b> |
| 7.1.      | Test Equipment .....            | 161        |
| 7.2.      | Test Setup .....                | 161        |
| 7.3.      | Limits .....                    | 162        |
| 7.4.      | Test Procedure .....            | 163        |
| 7.5.      | Uncertainty .....               | 163        |
| 7.6.      | Test Result .....               | 164        |
| <b>8.</b> | <b>Frequency Stability.....</b> | <b>196</b> |
| 8.1.      | Test Equipment .....            | 196        |
| 8.2.      | Test Setup .....                | 196        |
| 8.3.      | Limits .....                    | 196        |
| 8.4.      | Test Procedure .....            | 196        |
| 8.5.      | Uncertainty .....               | 196        |
| 8.6.      | Test Result .....               | 197        |
|           | Attachment .....                | 215        |
|           | EUT Photograph .....            | 215        |

## 1. General Information

### 1.1. EUT Description

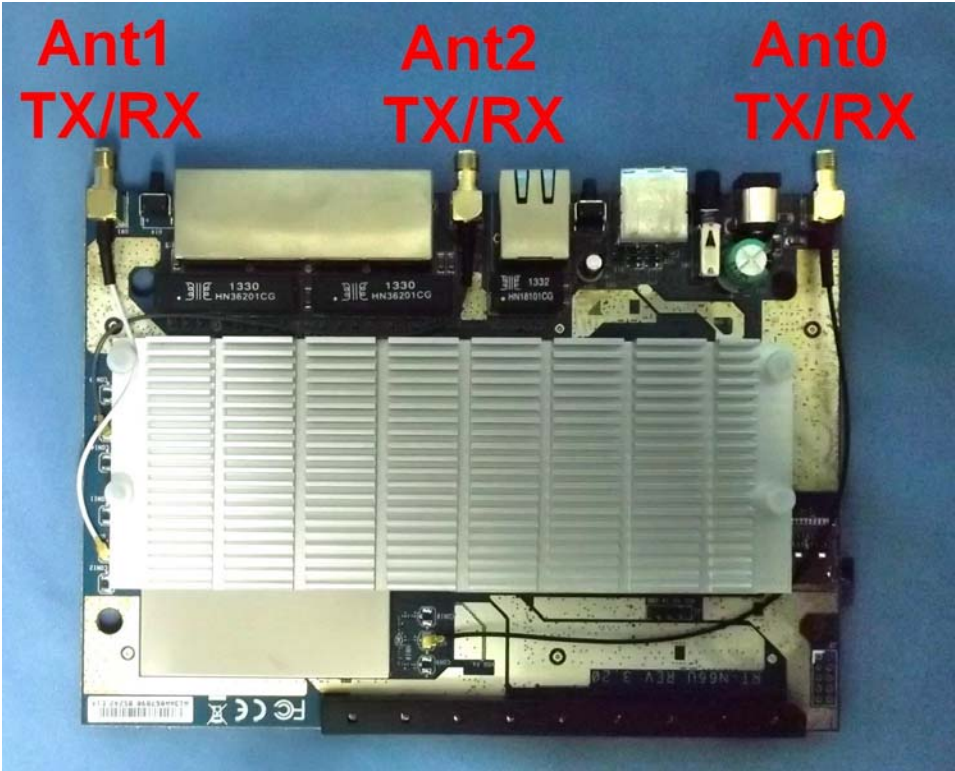
|                                                                     |                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                                                        | Gigabit Router Dual-band Wireless-N900                                                                                                                                                                                                                                                            |
| Product Type                                                        | WLAN (3TX, 3RX)                                                                                                                                                                                                                                                                                   |
| Trade Name                                                          | ASUS                                                                                                                                                                                                                                                                                              |
| Model No.                                                           | RT-N66U, RT-N66R, RT-N66W                                                                                                                                                                                                                                                                         |
| Frequency Range/Channel Number -IEEE 802.11a & IEEE 802.11n (20MHz) | 5180~5240MHz / 4 Channels                                                                                                                                                                                                                                                                         |
| Frequency Range/Channel Number -IEEE 802.11n (40MHz)                | 5190~5230MHz / 2 Channels                                                                                                                                                                                                                                                                         |
| Type of Modulation (IEEE 802.11a/n)                                 | Orthogonal Frequency Division Multiplexing (OFDM)                                                                                                                                                                                                                                                 |
| Data Speed (IEEE 802.11a)                                           | 6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps                                                                                                                                                                                                                                             |
| Data Speed (IEEE 802.11n)                                           | Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n                                                                                                                                                                                                          |
| Antenna Gain                                                        | ARISTOTLE / RFA-25-C35-M10<br>Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi<br>MAG. LAYERS / EDA-1410-25GR2-A1<br>Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi<br>Walsin Technology / RFDPA141000SBLB807<br>Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi<br>Walsin Technology / RFDPA141000SBLB801<br>Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi |
| Antenna Type                                                        | Dipole                                                                                                                                                                                                                                                                                            |

| Component     |                                                                                                                                                       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna       | ARISTOTLE / RFA-25-C35-M10, 3 PCS                                                                                                                     |
| Antenna       | MAG. LAYERS / EDA-1410-25GR2-A1, 3 PCS                                                                                                                |
| Antenna       | Walsin Technology / RFDPA141000SBLB803 , 3 PCS                                                                                                        |
| Antenna       | Walsin Technology / RFDPA141000SBLB801, 3 PCS                                                                                                         |
| LAN Cable     | Non-Shielded, 1.5m                                                                                                                                    |
| Power Adatper | ASUS, EXA1004UH<br>I/P : AC 100-240V, 50-60Hz 1A<br>O/P : +19V $\overline{\text{V}}$ 1.58A<br>Cable Out: Non-shielded, 2.5m, one ferrite core bonded. |
| Power Adatper | ASUS, AD82030<br>I/P : AC 100-240V, 50-60Hz 0.8A<br>O/P : +19V $\overline{\text{V}}$ 1.58A<br>Cable Out: Non-Shielded, 2.5m, one ferrite core bonded. |

ANT-TX / RX & Bandwidth

| ANT-TX / RX             | TX    |       | RX    |       |
|-------------------------|-------|-------|-------|-------|
| Mode/ Channel Bandwidth | 20MHz | 40MHz | 20MHz | 40MHz |
| IEEE802.11a             | ✓     | ✓     | ✓     | ✓     |
| IEEE802.11n             | ✓     | ✓     | ✓     | ✓     |

(3TX / 3RX)



## IEEE 802.11n

| MCS Index | Modulation | R   | N <sub>BPSCS</sub> | N <sub>CBPS</sub> |       | N <sub>DBPS</sub> |       | Data Rate(Mb/s) |       |          |       |
|-----------|------------|-----|--------------------|-------------------|-------|-------------------|-------|-----------------|-------|----------|-------|
|           |            |     |                    | 20MHz             | 40MHz | 20MHz             | 40MHz | 800ns GI        |       | 400ns GI |       |
|           |            |     |                    |                   |       |                   |       | 20MHz           | 40MHz | 20MHz    | 40MHz |
| 0         | BPSK       | 1/2 | 1                  | 52                | 108   | 26                | 54    | 6.5             | 13.5  | 7.2      | 15.0  |
| 1         | QPSK       | 1/2 | 2                  | 104               | 216   | 52                | 108   | 13.0            | 27.0  | 14.4     | 30.0  |
| 2         | QPSK       | 3/4 | 2                  | 104               | 216   | 78                | 162   | 19.5            | 40.5  | 21.7     | 45.0  |
| 3         | 16-QAM     | 1/2 | 4                  | 208               | 432   | 104               | 216   | 26.0            | 54.0  | 28.9     | 60.0  |
| 4         | 16-QAM     | 3/4 | 4                  | 208               | 432   | 156               | 324   | 39.0            | 81.0  | 43.3     | 90.0  |
| 5         | 64-QAM     | 2/3 | 6                  | 312               | 648   | 208               | 432   | 52.0            | 108.0 | 57.8     | 120.0 |
| 6         | 64-QAM     | 3/4 | 6                  | 312               | 648   | 234               | 486   | 58.5            | 121.5 | 65.0     | 135.0 |
| 7         | 64-QAM     | 5/6 | 6                  | 312               | 648   | 260               | 540   | 65.0            | 135.0 | 72.2     | 150.0 |

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

| MCS Index | Modulation | R   | N <sub>BPSCS</sub> | N <sub>CBPS</sub> |       | N <sub>DBPS</sub> |       | Data Rate(Mb/s) |       |          |       |
|-----------|------------|-----|--------------------|-------------------|-------|-------------------|-------|-----------------|-------|----------|-------|
|           |            |     |                    | 20MHz             | 40MHz | 20MHz             | 40MHz | 800ns GI        |       | 400ns GI |       |
|           |            |     |                    |                   |       |                   |       | 20MHz           | 40MHz | 20MHz    | 40MHz |
| 8         | BPSK       | 1/2 | 1                  | 104               | 216   | 52                | 108   | 13.0            | 27.0  | 14.4     | 30.0  |
| 9         | QPSK       | 1/2 | 2                  | 208               | 432   | 104               | 216   | 26.0            | 54.0  | 28.9     | 60.0  |
| 10        | QPSK       | 3/4 | 2                  | 208               | 432   | 156               | 324   | 39.0            | 81.0  | 43.3     | 90.0  |
| 11        | 16-QAM     | 1/2 | 4                  | 416               | 864   | 208               | 432   | 52.0            | 108.0 | 57.8     | 120.0 |
| 12        | 16-QAM     | 3/4 | 4                  | 416               | 864   | 312               | 648   | 78.0            | 162.0 | 86.7     | 180.0 |
| 13        | 64-QAM     | 2/3 | 6                  | 624               | 1296  | 416               | 864   | 104.0           | 216.0 | 115.6    | 240.0 |
| 14        | 64-QAM     | 3/4 | 6                  | 624               | 1296  | 468               | 972   | 117.0           | 243.0 | 130.0    | 270.0 |
| 15        | 64-QAM     | 5/6 | 6                  | 624               | 1296  | 520               | 1080  | 130.0           | 270.0 | 144.4    | 300.0 |

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

| MCS Index | Modulation | R   | N <sub>BPSCS</sub> | N <sub>CBPS</sub> |       | N <sub>DBPS</sub> |       | Data Rate(Mb/s) |       |          |       |
|-----------|------------|-----|--------------------|-------------------|-------|-------------------|-------|-----------------|-------|----------|-------|
|           |            |     |                    | 20MHz             | 40MHz | 20MHz             | 40MHz | 800ns GI        |       | 400ns GI |       |
|           |            |     |                    |                   |       |                   |       | 20MHz           | 40MHz | 20MHz    | 40MHz |
| 16        | BPSK       | 1/2 | 1                  | 156               | 324   | 78                | 162   | 19.5            | 40.5  | 21.7     | 45.0  |
| 17        | QPSK       | 1/2 | 2                  | 312               | 648   | 156               | 324   | 39.0            | 81.0  | 43.3     | 90.0  |
| 18        | QPSK       | 3/4 | 2                  | 312               | 648   | 234               | 486   | 58.5            | 121.5 | 65.0     | 135.0 |
| 19        | 16-QAM     | 1/2 | 4                  | 624               | 1296  | 312               | 648   | 78.0            | 162.0 | 86.7     | 180.0 |
| 20        | 16-QAM     | 3/4 | 4                  | 624               | 1296  | 468               | 972   | 117.0           | 243.0 | 130.0    | 270.0 |
| 21        | 64-QAM     | 2/3 | 6                  | 936               | 1944  | 624               | 1296  | 156.0           | 324.0 | 173.3    | 360.0 |
| 22        | 64-QAM     | 3/4 | 6                  | 936               | 1944  | 702               | 1458  | 175.5           | 364.5 | 195.0    | 405.0 |
| 23        | 64-QAM     | 5/6 | 6                  | 936               | 1944  | 780               | 1620  | 195.0           | 405.0 | 216.7    | 450.0 |

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 3 – MCS parameters for TX Antenna number = 3

| Symbol             | Explanation                             |
|--------------------|-----------------------------------------|
| R                  | Code rate                               |
| N <sub>BPSCS</sub> | Number of coded bits per single carrier |
| N <sub>CBPS</sub>  | Number of coded bits per symbol         |
| N <sub>DBPS</sub>  | Number of data bits per symbol          |
| GI                 | guard interval                          |

IEEE 802.11a & IEEE 802.11n (20MHz)

| Working Frequency of Each Channel |           |         |           |         |           |         |           |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                           | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 36                                | 5180MHz   | 40      | 5200MHz   | 44      | 5220MHz   | 48      | 5240MHz   |

IEEE 802.11n (40MHz)

| Working Frequency of Each Channel |           |         |           |
|-----------------------------------|-----------|---------|-----------|
| Channel                           | Frequency | Channel | Frequency |
| 38                                | 5190MHz   | 46      | 5230MHz   |

Note:

1. This device is a Gigabit Router Dual-band Wireless-N900 including 2.4GHz b/g/n and 5GHz a/n (3x3) transmitting and receiving function.
2. The different of the each model is shown as below:

| Model No.           | Externals color | Antenna                                   |
|---------------------|-----------------|-------------------------------------------|
| RT-N66U,<br>RT-N66R | Black           | ARISTOTLE / RFA-25-C35-M10                |
|                     |                 | MAG. LAYERS /<br>EDA-1410-25GR2-A1        |
|                     |                 | Walsin Technology /<br>RFDPA141000SBLB801 |
| RT-N66W             | White           | Walsin Technology /<br>RFDPA141000SBLB803 |

The variation of model number is for different strategy of marketing.

3. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
4. Regards to the frequency band operation; the lowest 、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
5. The function of the 2.4GHz and 5.8GHz transmitting is measured and makes a test report of the report number: 1440427R-RFUSP28V00.
6. This device has USB and Ethernet ports, which can be connected to computer. It is a Class B personal computer and peripheral. Its test report number is 1440427R-RFUSP01V00 under part 15B with Declaration of Conformity letter.
7. The different of the each Antenna shown as below:

| Antenna Source    | Antenna Model      | Antenna Gain |
|-------------------|--------------------|--------------|
| ARISTOTLE         | RFA-25-C35-M10     | 2dBi         |
| MAG. LAYERS       | EDA-1410-25GR2-A1  | 2dBi         |
| Walsin Technology | RFDPA141000SBLB803 | 2dBi         |
| Walsin Technology | RFDPA141000SBLB801 | 2dBi         |

8. This report is class II change.

## 1.2. Test Mode

QuieTek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

|    |                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------|
| TX | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 |
|----|----------------------------------------------------------------------------------------------------------|

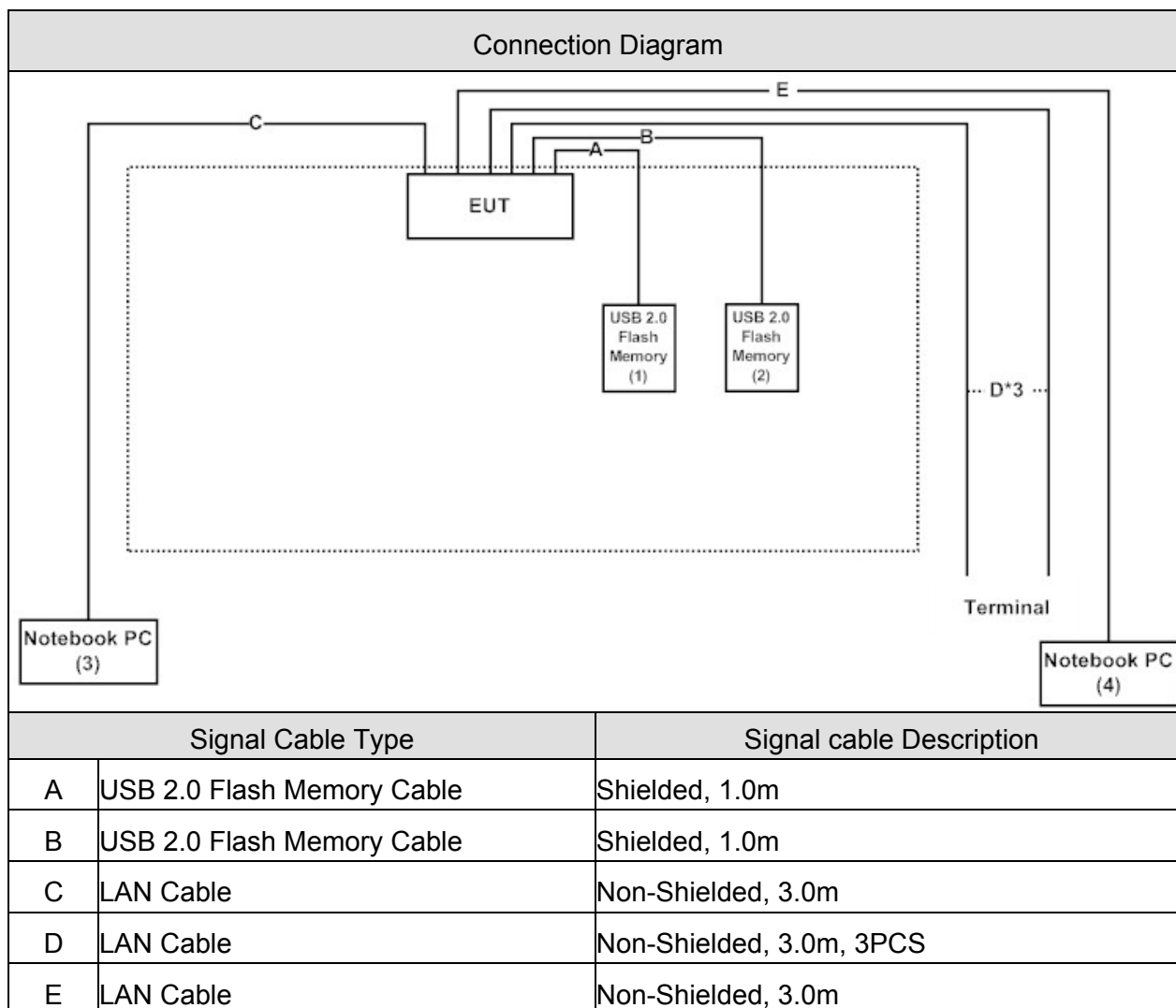
| Test Items                  | Modulation | Channel  | Antenna | Result   |
|-----------------------------|------------|----------|---------|----------|
| Conducted Emission          | 11n(40MHz) | 38       | 0+1+2   | Complies |
| 99 % & 26dB Bandwidth       | a          | 36/44/48 | 0/1/2   | Complies |
|                             | 11n(20MHz) | 36/44/48 | 0/1/2   | Complies |
|                             | 11n(40MHz) | 38/46    | 0/1/2   | Complies |
| Peak Transmit Output        | a          | 36/44/48 | 0+1+2   | Complies |
|                             | 11n(20MHz) | 36/44/48 | 0+1+2   | Complies |
|                             | 11n(40MHz) | 38/46    | 0+1+2   | Complies |
| Peak Power Spectrum Density | a          | 36/44/48 | 0+1+2   | Complies |
|                             | 11n(20MHz) | 36/44/48 | 0+1+2   | Complies |
|                             | 11n(40MHz) | 38/46    | 0+1+2   | Complies |
| Radiated Emission           | a          | 36/44/48 | 0+1+2   | Complies |
|                             | 11n(20MHz) | 36/44/48 | 0+1+2   | Complies |
|                             | 11n(40MHz) | 38/46    | 0+1+2   | Complies |
| Band Edge                   | a          | 36       | 0+1+2   | Complies |
|                             | 11n(20MHz) | 36       | 0+1+2   | Complies |
|                             | 11n(40MHz) | 38       | 0+1+2   | Complies |
| Frequency Stability         | a          | 36/48    | 0/1/2   | Complies |
|                             | 11n(20MHz) | 36/48    | 0/1/2   | Complies |
|                             | 11n(40MHz) | 38/46    | 0/1/2   | Complies |

### 1.3. Tested System Details

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

| Product |                      | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord         |
|---------|----------------------|--------------|-----------|------------|--------|--------------------|
| 1       | USB 2.0 Flash Memory | Sony         | USM2GJX   | N/A        | DoC    | --                 |
| 2       | USB 2.0 Flash Memory | Sony         | USM2GJX   | N/A        | DoC    | --                 |
| 3       | Notebook PC          | DELL         | PP37L     | CD8BNG1    | DoC    | Non-Shielded, 1.8m |
| 4       | Notebook PC          | HP Compaq    | NX6320FF  | CNU7020BXT | DoC    | Non-Shielded, 1.8m |

#### 1.4. Configuration of tested System



#### 1.5. EUT Exercise Software

|   |                                                               |
|---|---------------------------------------------------------------|
| 1 | Setup the EUT as shown in Section 1.4.                        |
| 2 | Execute the control program "Mtool 2.0.0.7" on the EUT.       |
| 3 | Configure the test mode, the test channel, and the data rate. |
| 4 | Press "Start TX" to start the continuous transmitting.        |
| 5 | Verify that the EUT works properly.                           |

## 1.6. Test Facility

Ambient conditions in the laboratory:

| Items                      | Test Item                                     | Required (IEC 68-1) | Actual   |
|----------------------------|-----------------------------------------------|---------------------|----------|
| Temperature (°C)           | FCC PART 15 E 15.407<br>Conducted Emission    | 15 - 35             | 20       |
| Humidity (%RH)             |                                               | 25 - 75             | 50       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 E 15.407<br>99 % & 26dB Bandwidth | 15 - 35             | 25       |
| Humidity (%RH)             |                                               | 25 - 75             | 45       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 E 15.407<br>Peak Transmit Power   | 15 - 35             | 25       |
| Humidity (%RH)             |                                               | 25 - 75             | 45       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 E 15.407<br>Peak Power Spectrum   | 15 - 35             | 25       |
| Humidity (%RH)             |                                               | 25 - 75             | 45       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 E 15.407<br>Radiated Emission     | 15 - 35             | 25       |
| Humidity (%RH)             |                                               | 25 - 75             | 48       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 E 15.407<br>Band Edge             | 15 - 35             | 25       |
| Humidity (%RH)             |                                               | 25 - 75             | 48       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |
| Temperature (°C)           | FCC PART 15 E 15.407<br>Frequency Stability   | 15 - 35             | 25       |
| Humidity (%RH)             |                                               | 25 - 75             | 45       |
| Barometric pressure (mbar) |                                               | 860 - 1060          | 950-1000 |

## 2. Conducted Emission

### 2.1. Test Equipment

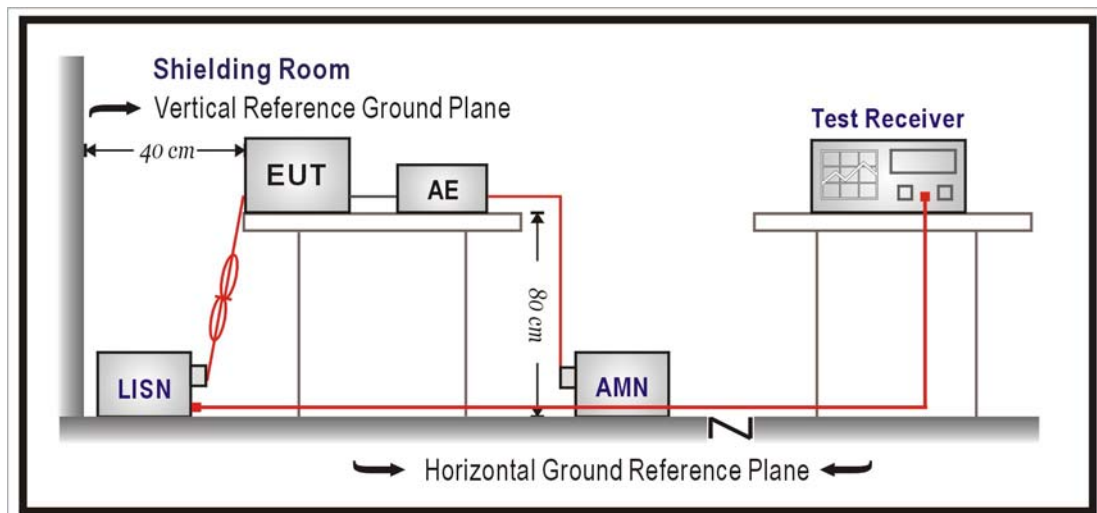
The following test equipments are used during the test:

Conducted Emission / SR3

| Instrument    | Manufacturer | Model No. | Serial No  | Next Cal. Date |
|---------------|--------------|-----------|------------|----------------|
| LISN          | R&S          | ENV216    | 100096     | 2014/08/01     |
| LISN          | R&S          | ESH3-Z5   | 836679/022 | 2015/01/02     |
| Test Receiver | R&S          | ESCS 30   | 825442/017 | 2014/12/24     |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 2.2. Test Setup



### 2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV) |       |       |
|------------------------------------------------------|-------|-------|
| Frequency<br>MHz                                     | QP    | AV    |
| 0.15 - 0.50                                          | 66-56 | 56-46 |
| 0.50 - 5.0                                           | 56    | 46    |
| 5.0 - 30                                             | 60    | 50    |

Remarks: In the above table, the tighter limit applies at the band edges.

### 2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

### 2.5. Test Specification

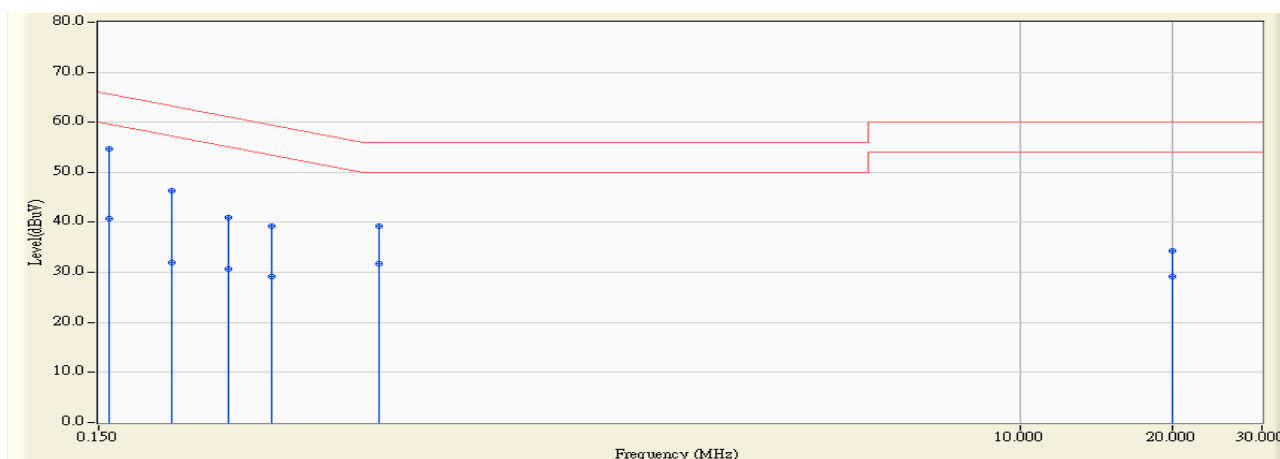
According to FCC Part 15 Subpart C Paragraph 15.207: 2013

### 2.6. Uncertainty

The measurement uncertainty is defined as  $\pm 2.26$  dB.

## 2.7. Test Result

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : SR3                                   | Time : 2014/06/14 - 14:26                                                            |
| Limit : CISPR_B_00M_QP                       | Margin : 6                                                                           |
| Probe : SR3_LISN(16A)-3_0813 - Line1         | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

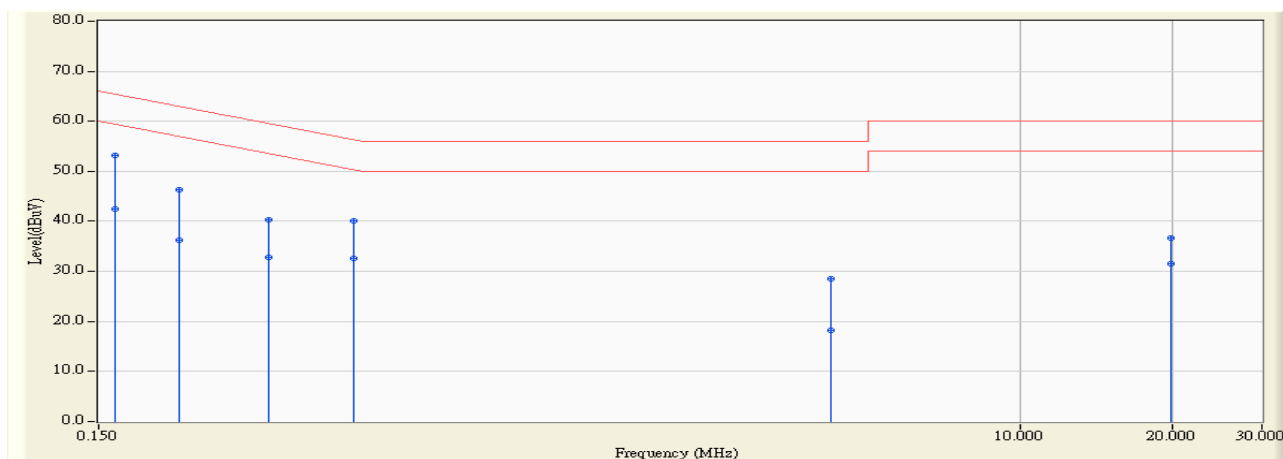


|    |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|----|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1  | * | 0.158              | 9.641                  | 45.070                  | 54.710                  | -10.868        | 65.578          | QUASIPeAK     |
| 2  |   | 0.158              | 9.641                  | 31.130                  | 40.770                  | -14.808        | 55.578          | AVERAGE       |
| 3  |   | 0.209              | 9.663                  | 36.760                  | 46.423                  | -16.838        | 63.261          | QUASIPeAK     |
| 4  |   | 0.209              | 9.663                  | 22.370                  | 32.033                  | -21.228        | 53.261          | AVERAGE       |
| 5  |   | 0.271              | 9.697                  | 31.190                  | 40.887                  | -20.197        | 61.084          | QUASIPeAK     |
| 6  |   | 0.271              | 9.697                  | 20.990                  | 30.687                  | -20.397        | 51.084          | AVERAGE       |
| 7  |   | 0.330              | 9.734                  | 29.430                  | 39.164                  | -20.295        | 59.459          | QUASIPeAK     |
| 8  |   | 0.330              | 9.734                  | 19.370                  | 29.104                  | -20.355        | 49.459          | AVERAGE       |
| 9  |   | 0.537              | 9.836                  | 29.320                  | 39.156                  | -16.844        | 56.000          | QUASIPeAK     |
| 10 |   | 0.537              | 9.836                  | 21.930                  | 31.766                  | -14.234        | 46.000          | AVERAGE       |
| 11 |   | 19.982             | 10.130                 | 24.240                  | 34.370                  | -25.630        | 60.000          | QUASIPeAK     |
| 12 |   | 19.982             | 10.130                 | 19.130                  | 29.260                  | -20.740        | 50.000          | AVERAGE       |

Note:

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

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : SR3                                   | Time : 2014/06/14 - 14:32                                                            |
| Limit : CISPR_B_00M_QP                       | Margin : 6                                                                           |
| Probe : SR3_LISN(16A)-3_0813 - Line2         | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

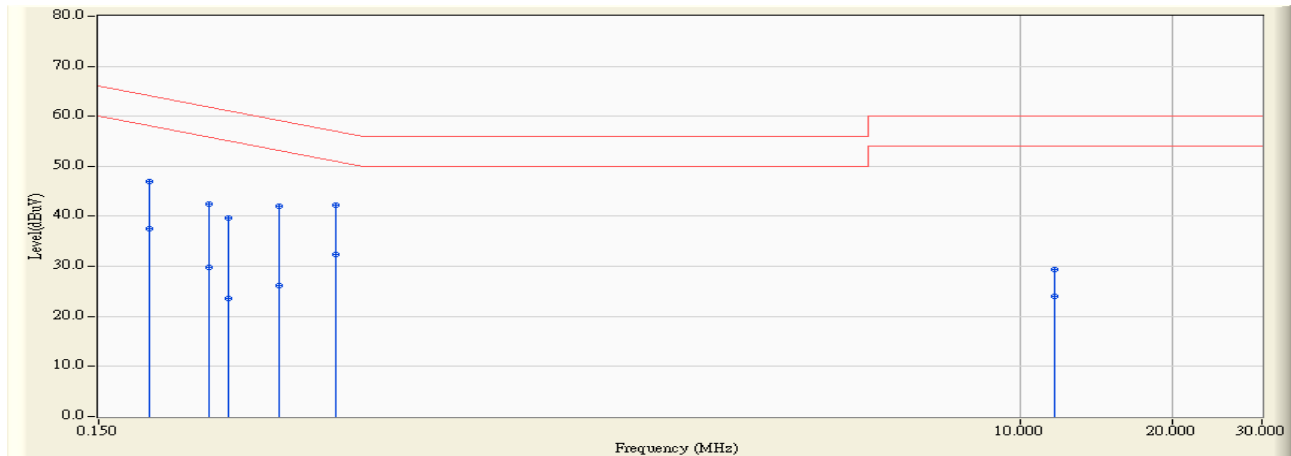


|    |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|----|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1  | * | 0.162              | 9.641                  | 43.600                  | 53.241                  | -12.134        | 65.375          | QUASIPeAK     |
| 2  |   | 0.162              | 9.641                  | 32.770                  | 42.411                  | -12.964        | 55.375          | AVERAGE       |
| 3  |   | 0.216              | 9.668                  | 36.710                  | 46.378                  | -16.577        | 62.956          | QUASIPeAK     |
| 4  |   | 0.216              | 9.668                  | 26.540                  | 36.208                  | -16.747        | 52.956          | AVERAGE       |
| 5  |   | 0.326              | 9.721                  | 30.550                  | 40.271                  | -19.287        | 59.558          | QUASIPeAK     |
| 6  |   | 0.326              | 9.721                  | 23.100                  | 32.821                  | -16.737        | 49.558          | AVERAGE       |
| 7  |   | 0.478              | 9.806                  | 30.310                  | 40.116                  | -16.255        | 56.372          | QUASIPeAK     |
| 8  |   | 0.478              | 9.806                  | 22.780                  | 32.586                  | -13.785        | 46.372          | AVERAGE       |
| 9  |   | 4.205              | 10.030                 | 18.550                  | 28.580                  | -27.420        | 56.000          | QUASIPeAK     |
| 10 |   | 4.205              | 10.030                 | 8.180                   | 18.210                  | -27.790        | 46.000          | AVERAGE       |
| 11 |   | 19.783             | 10.310                 | 26.280                  | 36.590                  | -23.410        | 60.000          | QUASIPeAK     |
| 12 |   | 19.783             | 10.310                 | 21.210                  | 31.520                  | -18.480        | 50.000          | AVERAGE       |

Note:

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

|                                              |                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------|
| Site : SR3                                   | Time : 2014/06/20 - 16:07                                                                    |
| Limit : CISPR_B_00M_QP                       | Margin : 6                                                                                   |
| Probe : SR3_LISN(16A)-3_0813 - Line1         | Power : AC 120V/60 Hz                                                                        |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Note : Mode 2: Transmit(CDD Mode)_Adapter:<br>ASUS, AD82030<br>802.11n_40MHz_ 5230MHz |

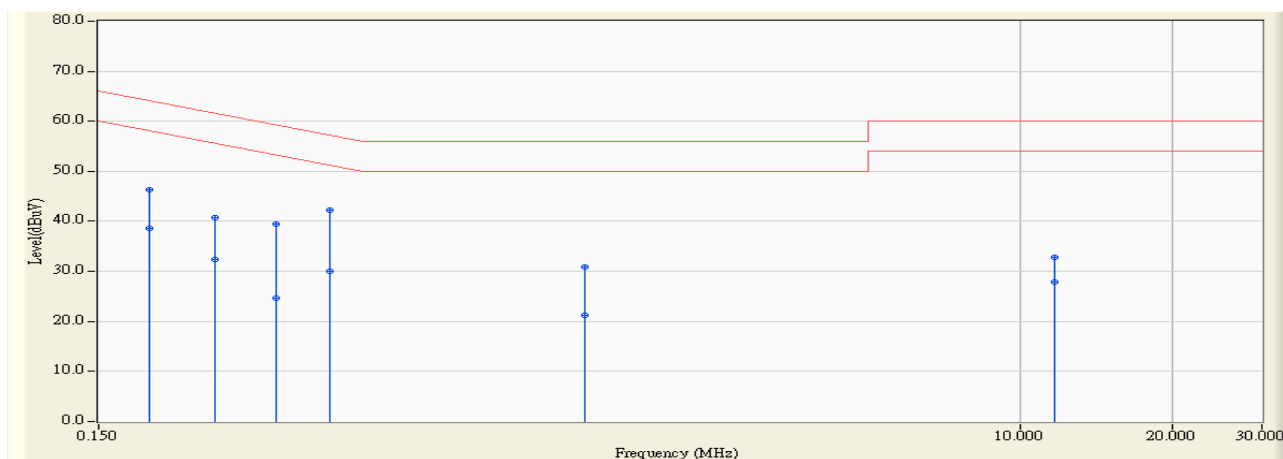


|    |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|----|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1  |   | 0.189              | 9.650                  | 37.420                  | 47.070                  | -17.008        | 64.078          | QUASIPeAK     |
| 2  |   | 0.189              | 9.650                  | 27.870                  | 37.520                  | -16.558        | 54.078          | AVERAGE       |
| 3  |   | 0.248              | 9.689                  | 32.800                  | 42.489                  | -19.346        | 61.835          | QUASIPeAK     |
| 4  |   | 0.248              | 9.689                  | 20.140                  | 29.829                  | -22.006        | 51.835          | AVERAGE       |
| 5  |   | 0.271              | 9.697                  | 30.060                  | 39.757                  | -21.327        | 61.084          | QUASIPeAK     |
| 6  |   | 0.271              | 9.697                  | 13.950                  | 23.647                  | -27.437        | 51.084          | AVERAGE       |
| 7  |   | 0.341              | 9.742                  | 32.240                  | 41.982                  | -17.187        | 59.169          | QUASIPeAK     |
| 8  |   | 0.341              | 9.742                  | 16.450                  | 26.192                  | -22.977        | 49.169          | AVERAGE       |
| 9  |   | 0.443              | 9.799                  | 32.490                  | 42.289                  | -14.716        | 57.006          | QUASIPeAK     |
| 10 | * | 0.443              | 9.799                  | 22.580                  | 32.379                  | -14.626        | 47.006          | AVERAGE       |
| 11 |   | 11.638             | 10.120                 | 19.260                  | 29.380                  | -30.620        | 60.000          | QUASIPeAK     |
| 12 |   | 11.638             | 10.120                 | 13.930                  | 24.050                  | -25.950        | 50.000          | AVERAGE       |

## Note:

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

|                                              |                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------|
| Site : SR3                                   | Time : 2014/06/20 - 16:11                                                                    |
| Limit : CISPR_B_00M_QP                       | Margin : 6                                                                                   |
| Probe : SR3_LISN(16A)-3_0813 - Line2         | Power : AC 120V/60 Hz                                                                        |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Note : Mode 2: Transmit(CDD Mode)_Adapter:<br>ASUS, AD82030<br>802.11n_40MHz_ 5230MHz |



|    |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV) | Margin<br>(dB) | Limit<br>(dBuV) | Detector Type |
|----|---|--------------------|------------------------|-------------------------|-------------------------|----------------|-----------------|---------------|
| 1  |   | 0.189              | 9.650                  | 36.710                  | 46.360                  | -17.718        | 64.078          | QUASIPeAK     |
| 2  |   | 0.189              | 9.650                  | 28.980                  | 38.630                  | -15.448        | 54.078          | AVERAGE       |
| 3  |   | 0.255              | 9.692                  | 31.090                  | 40.782                  | -20.795        | 61.577          | QUASIPeAK     |
| 4  |   | 0.255              | 9.692                  | 22.700                  | 32.392                  | -19.185        | 51.577          | AVERAGE       |
| 5  |   | 0.338              | 9.729                  | 29.640                  | 39.369                  | -19.895        | 59.265          | QUASIPeAK     |
| 6  |   | 0.338              | 9.729                  | 14.960                  | 24.689                  | -24.575        | 49.265          | AVERAGE       |
| 7  | * | 0.431              | 9.782                  | 32.410                  | 42.192                  | -15.037        | 57.229          | QUASIPeAK     |
| 8  |   | 0.431              | 9.782                  | 20.280                  | 30.062                  | -17.167        | 47.229          | AVERAGE       |
| 9  |   | 1.377              | 9.930                  | 20.920                  | 30.850                  | -25.150        | 56.000          | QUASIPeAK     |
| 10 |   | 1.377              | 9.930                  | 11.240                  | 21.170                  | -24.830        | 46.000          | AVERAGE       |
| 11 |   | 11.650             | 10.170                 | 22.650                  | 32.820                  | -27.180        | 60.000          | QUASIPeAK     |
| 12 |   | 11.650             | 10.170                 | 17.770                  | 27.940                  | -22.060        | 50.000          | AVERAGE       |

Note:

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

### 3. 99% & 26dB Bandwidth

#### 3.1. Test Equipment

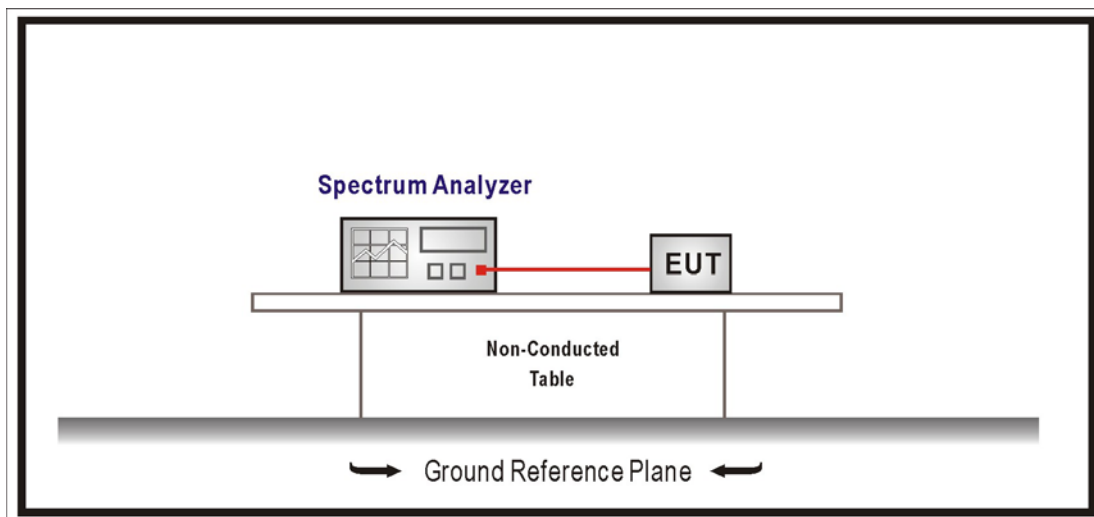
The following test equipments are used during the radiated emission tests:

99% & 26dB Bandwidth / SR7

| Instrument        | Manufacturer | Model No.  | Serial No  | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent      | N9010A-EXA | US47140172 | 2014/08/05     |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

#### 3.2. Test Setup



#### 3.3. Limits

No Required

#### 3.4. Test Procedure

The EUT was tested according to U-NII test procedure of KDB 789033.

Set RBW 1% to 5% of the emission bandwidth, VBW  $\geq 3$  times the RBW.

#### 3.5. Uncertainty

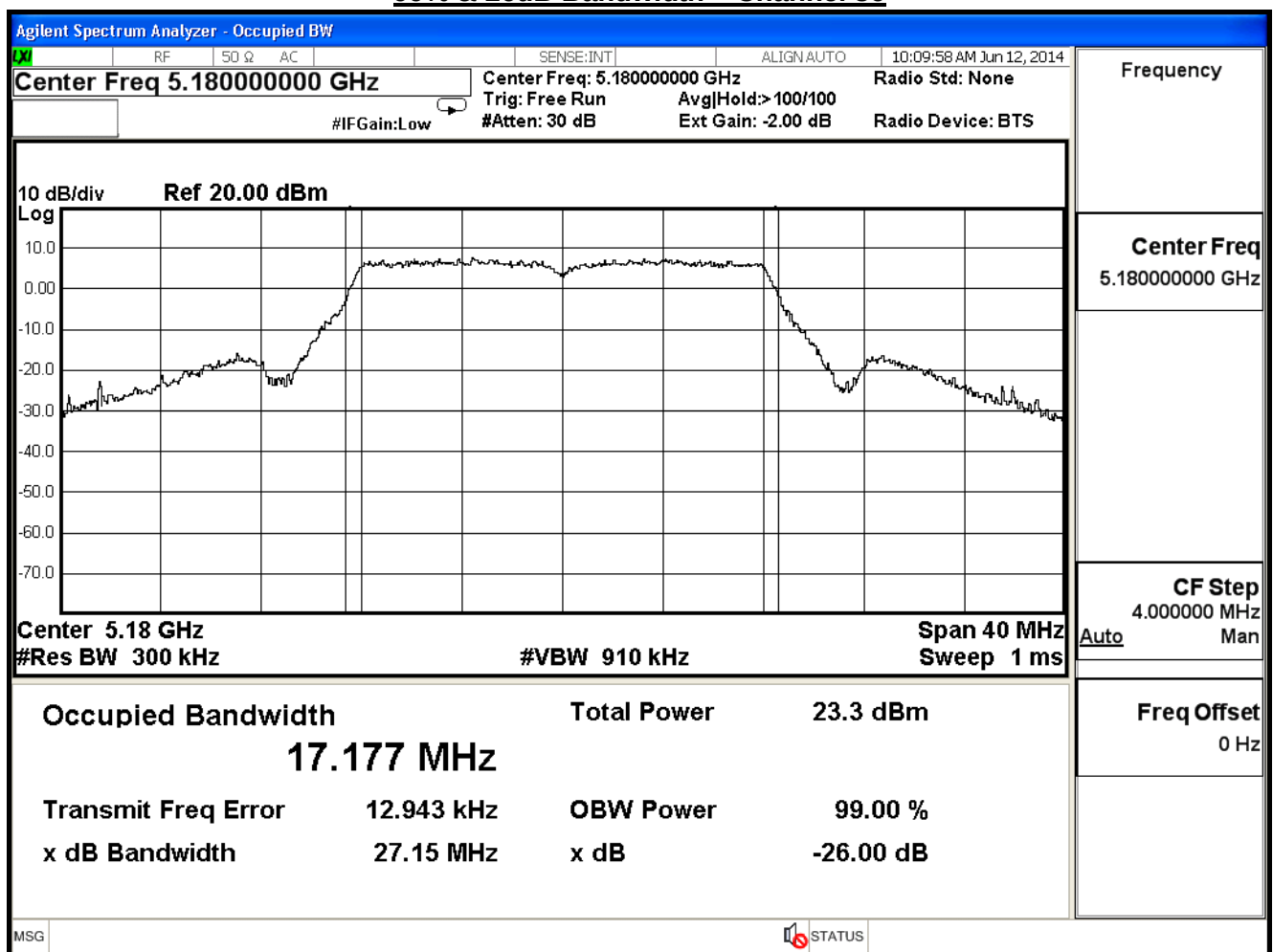
The measurement uncertainty is defined as  $\pm 150\text{Hz}$

### 3.6. Test Result

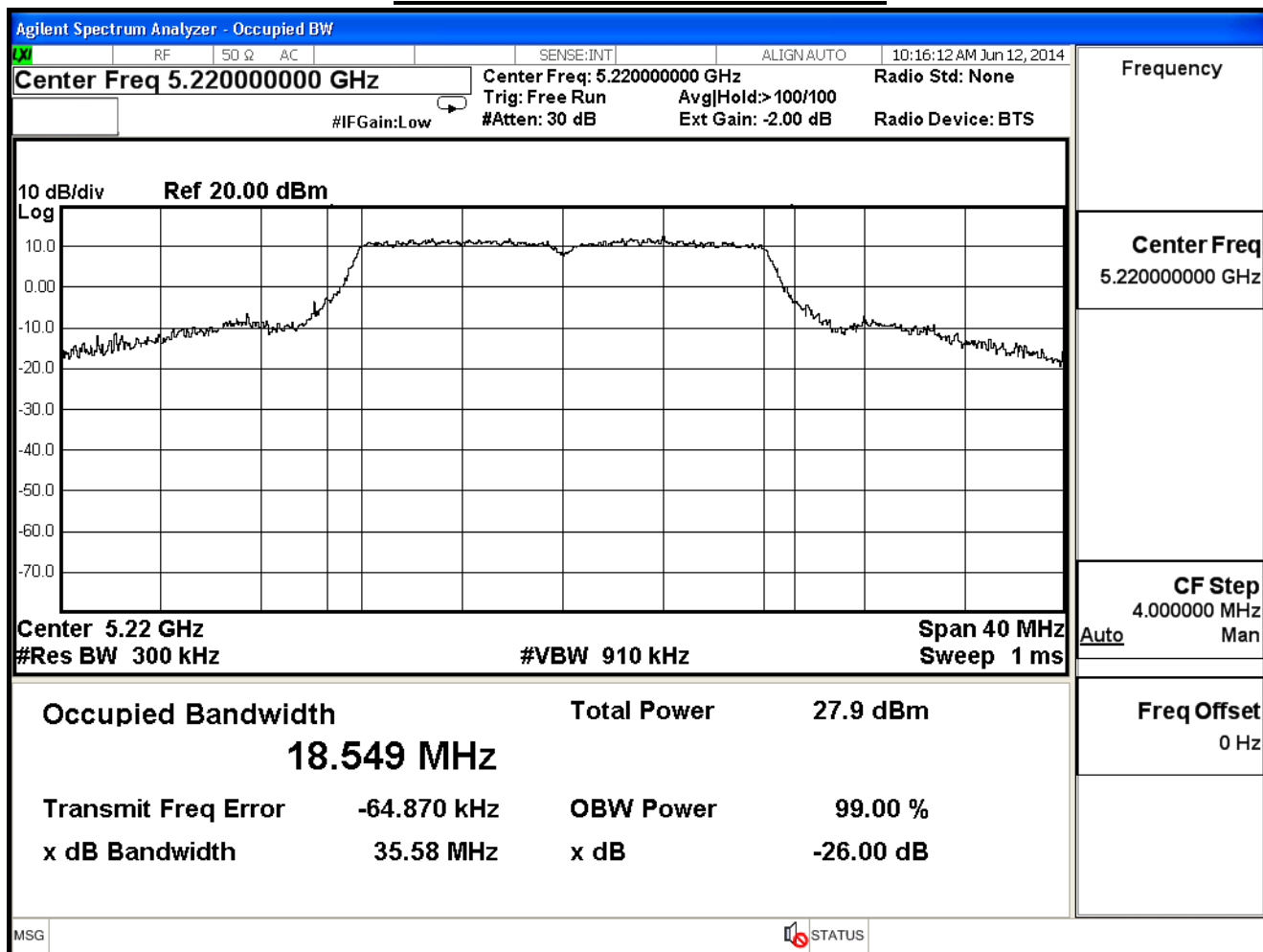
|              |                                                      |           |     |
|--------------|------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900               |           |     |
| Test Item    | 99% & 26dB Bandwidth                                 |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_ Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                           | Test Site | SR7 |

| 802.11a (ANT 0) |                 |               |                |                      |        |
|-----------------|-----------------|---------------|----------------|----------------------|--------|
| Channel No.     | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
| 36              | 5180            | 27.150        | 17.777         | --                   | Pass   |
| 44              | 5220            | 35.580        | 18.549         | --                   | Pass   |
| 48              | 5240            | 36.630        | 18.549         | --                   | Pass   |

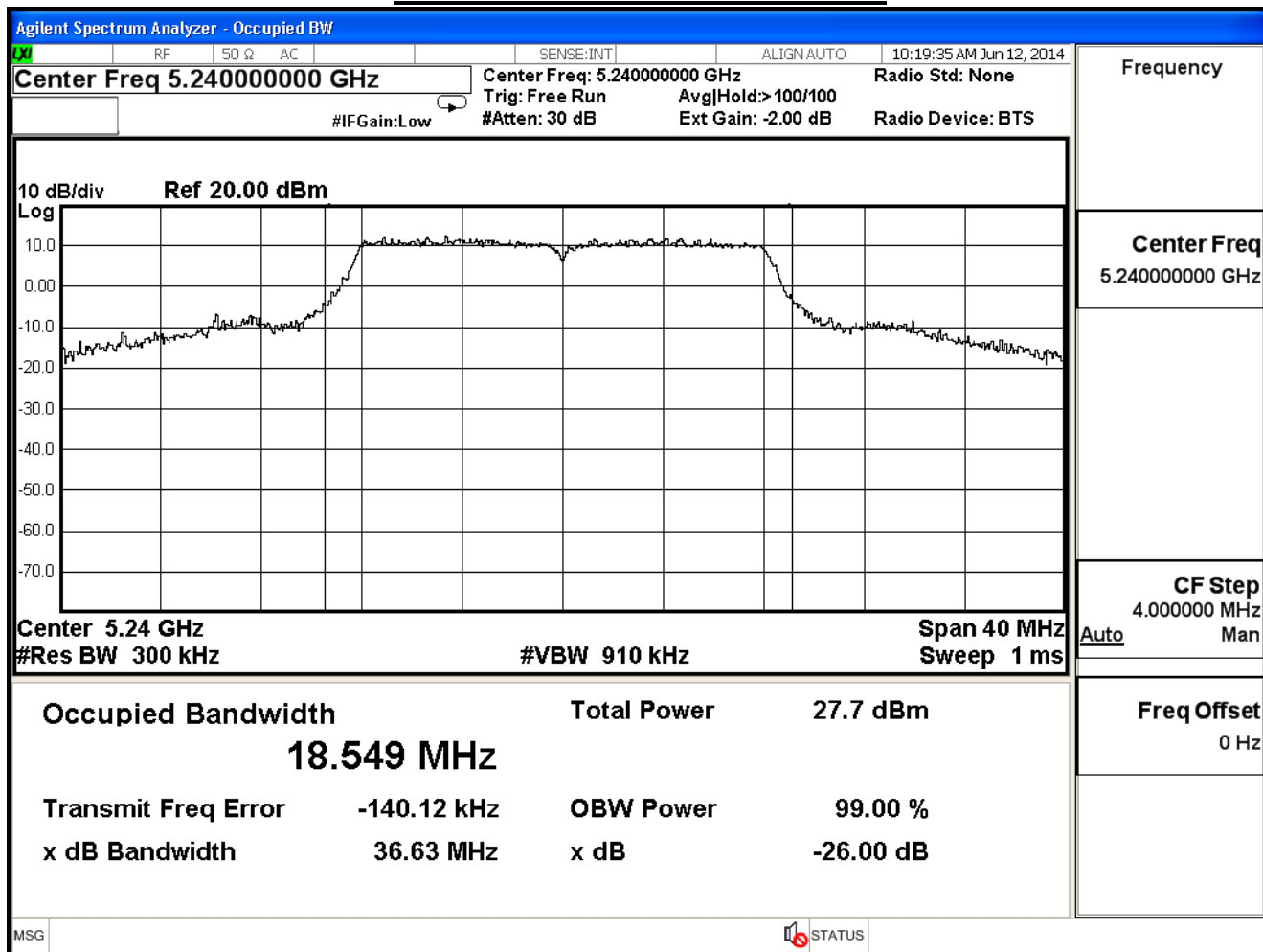
### 99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

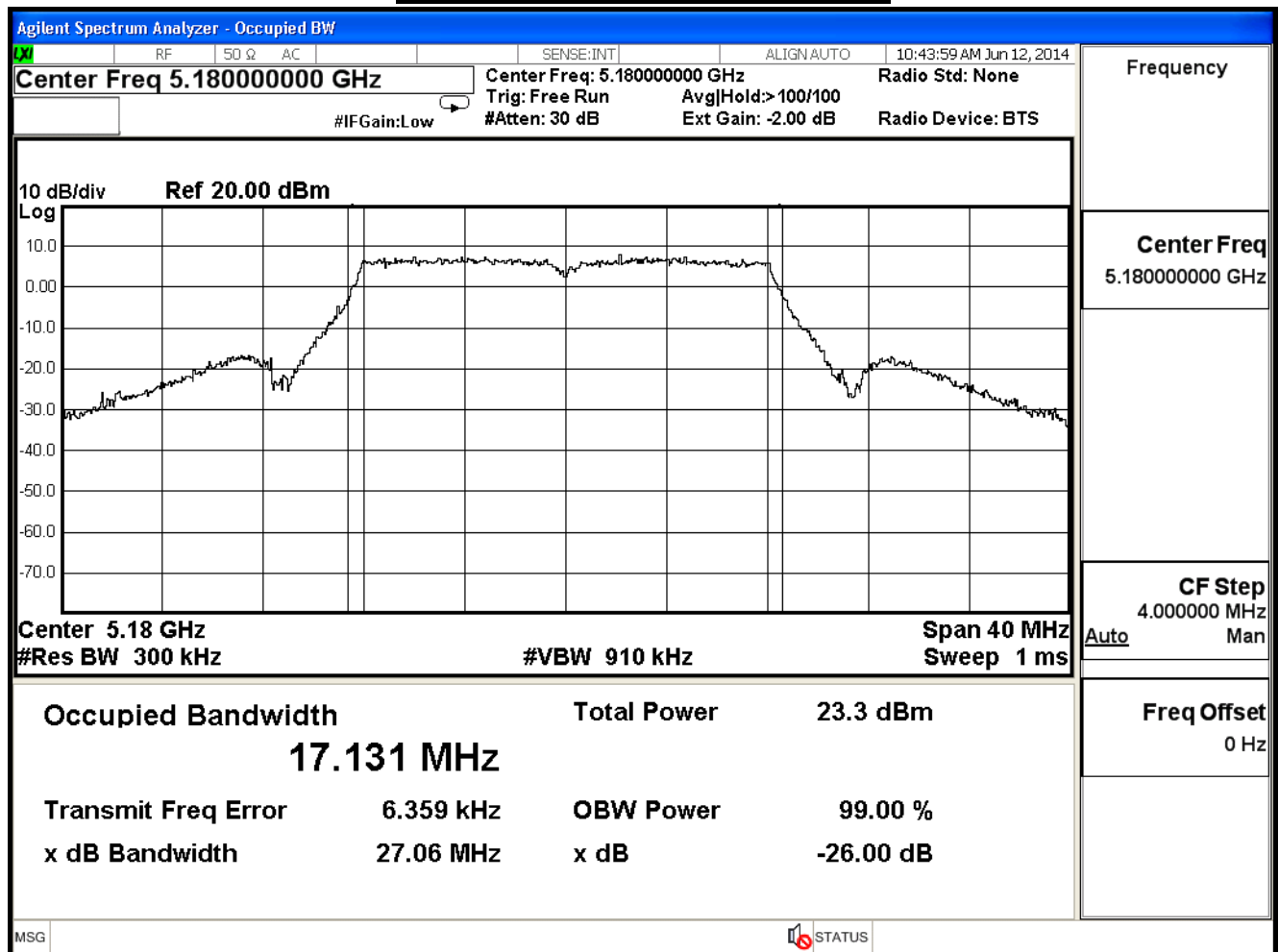


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

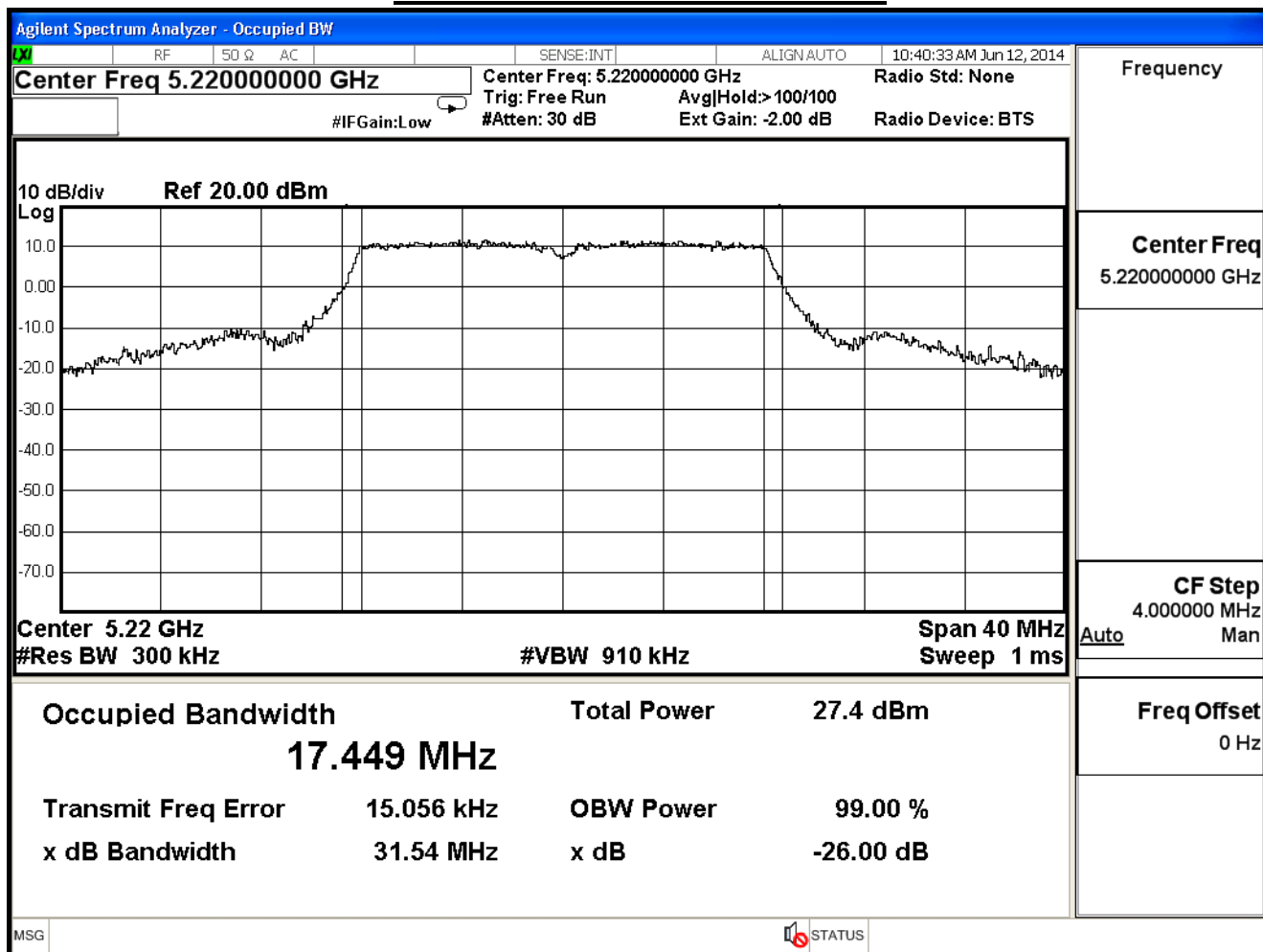
## 802.11a (ANT 1)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 36          | 5180            | 27.060        | 17.131         | --                   | Pass   |
| 44          | 5220            | 31.540        | 17.449         | --                   | Pass   |
| 48          | 5240            | 31.600        | 17.662         | --                   | Pass   |

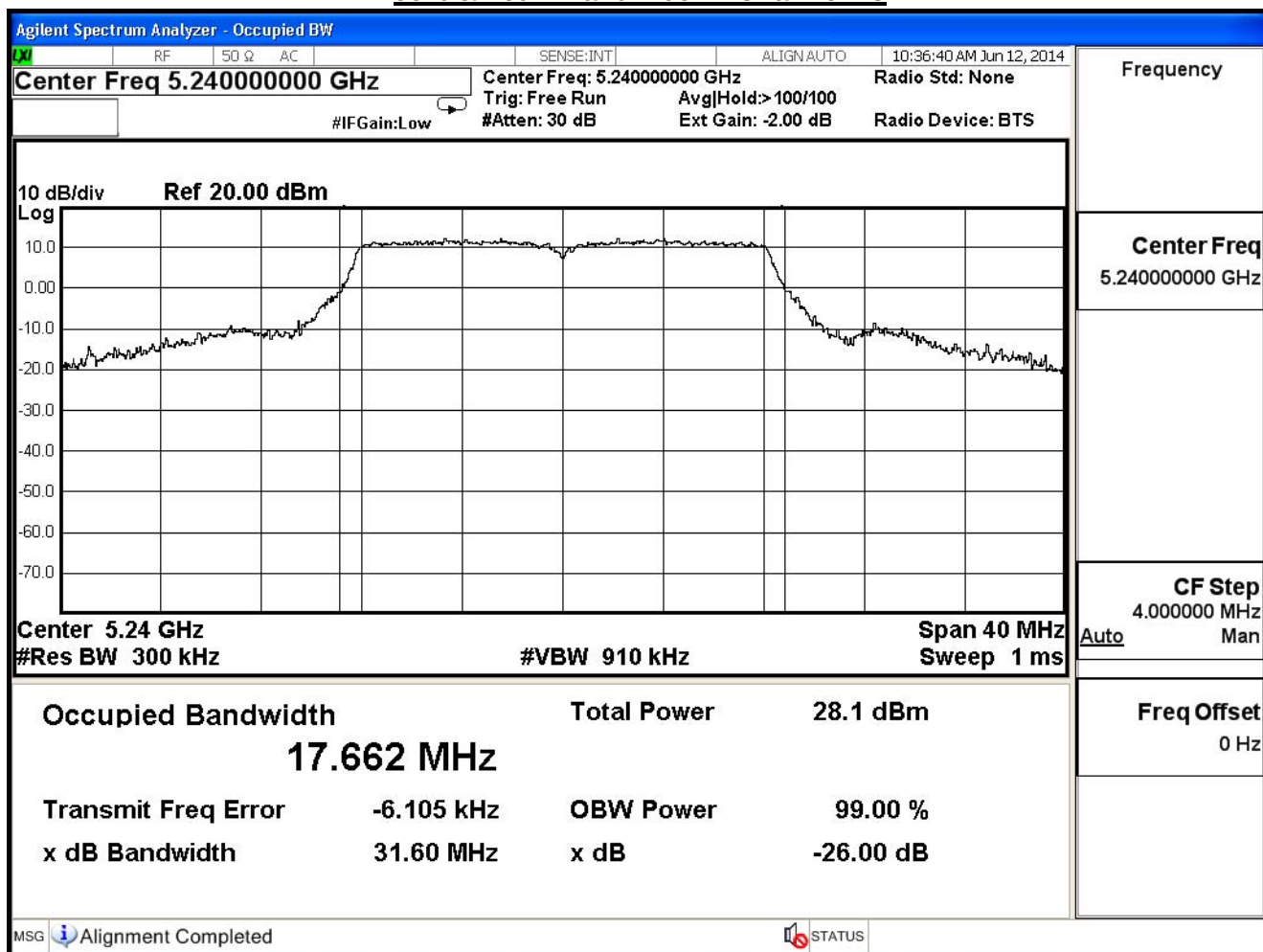
## 99% & 26dB Bandwidth – Channel 36



### 99% & 26dB Bandwidth – Channel 44



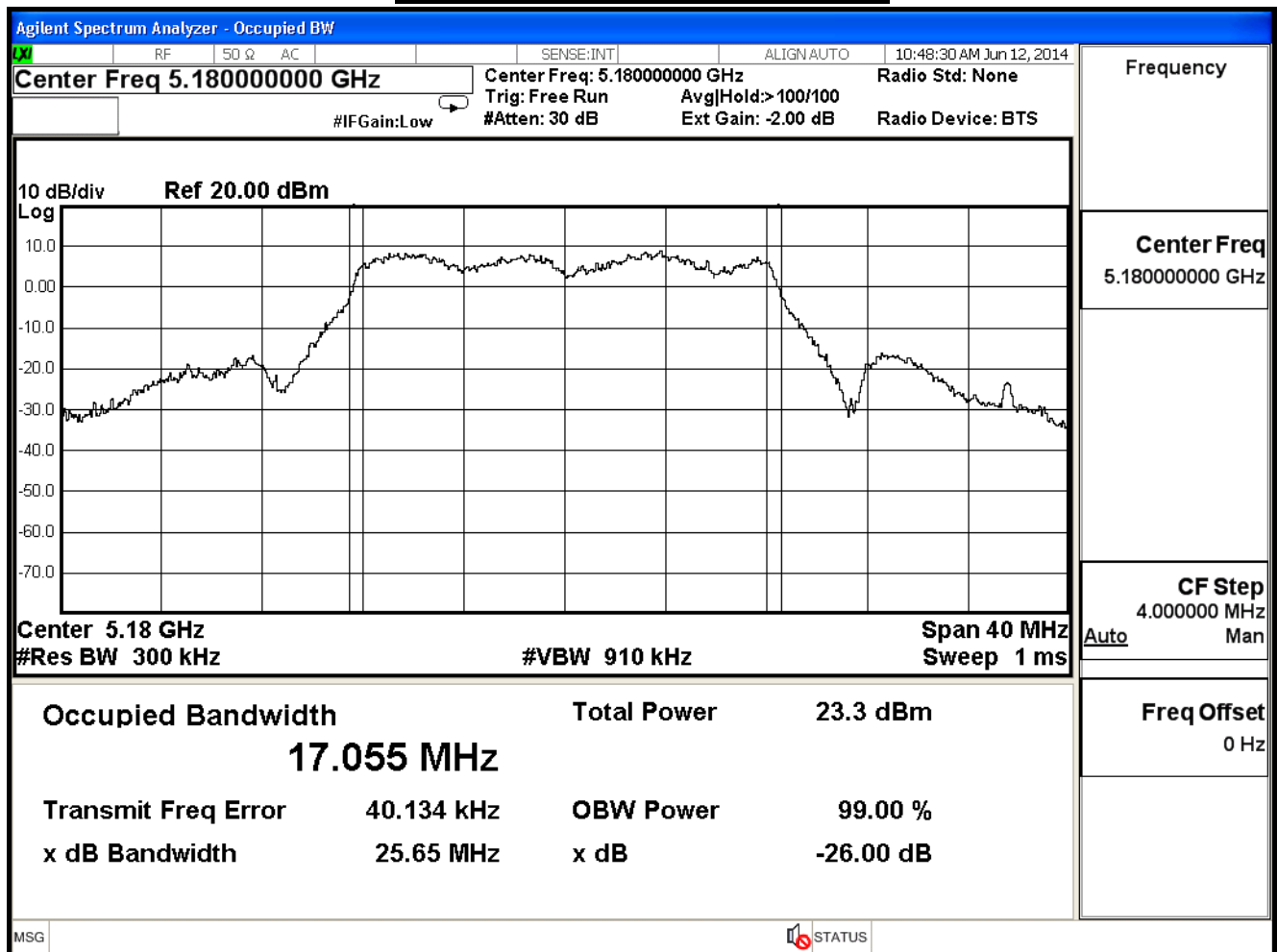
99% & 26dB Bandwidth – Channel 48



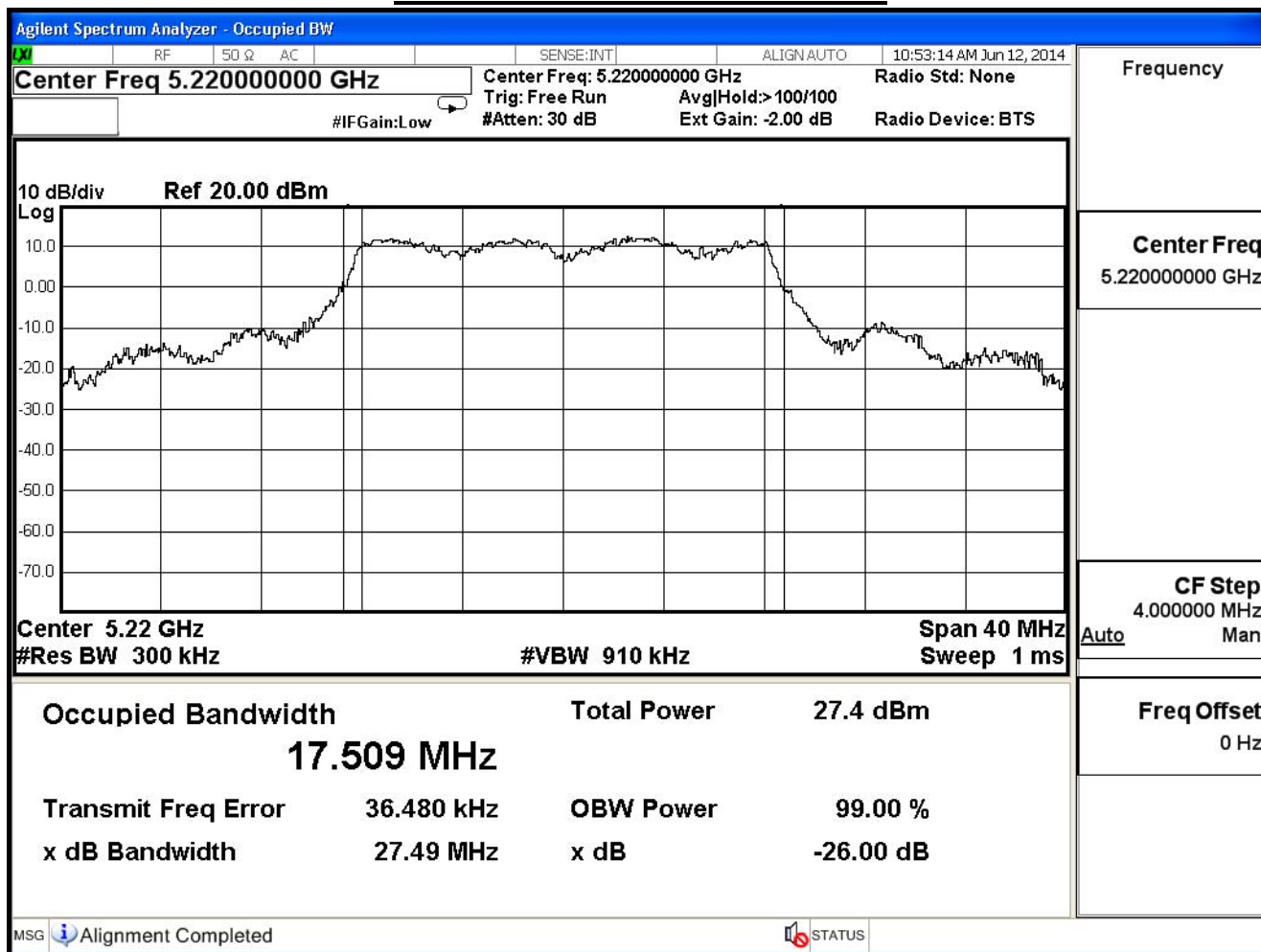
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| 802.11a (ANT 2) |                 |               |                |                      |        |
|-----------------|-----------------|---------------|----------------|----------------------|--------|
| Channel No.     | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
| 36              | 5180            | 25.650        | 17.055         | --                   | Pass   |
| 44              | 5220            | 27.490        | 17.509         | --                   | Pass   |
| 48              | 5240            | 27.650        | 17.402         | --                   | Pass   |

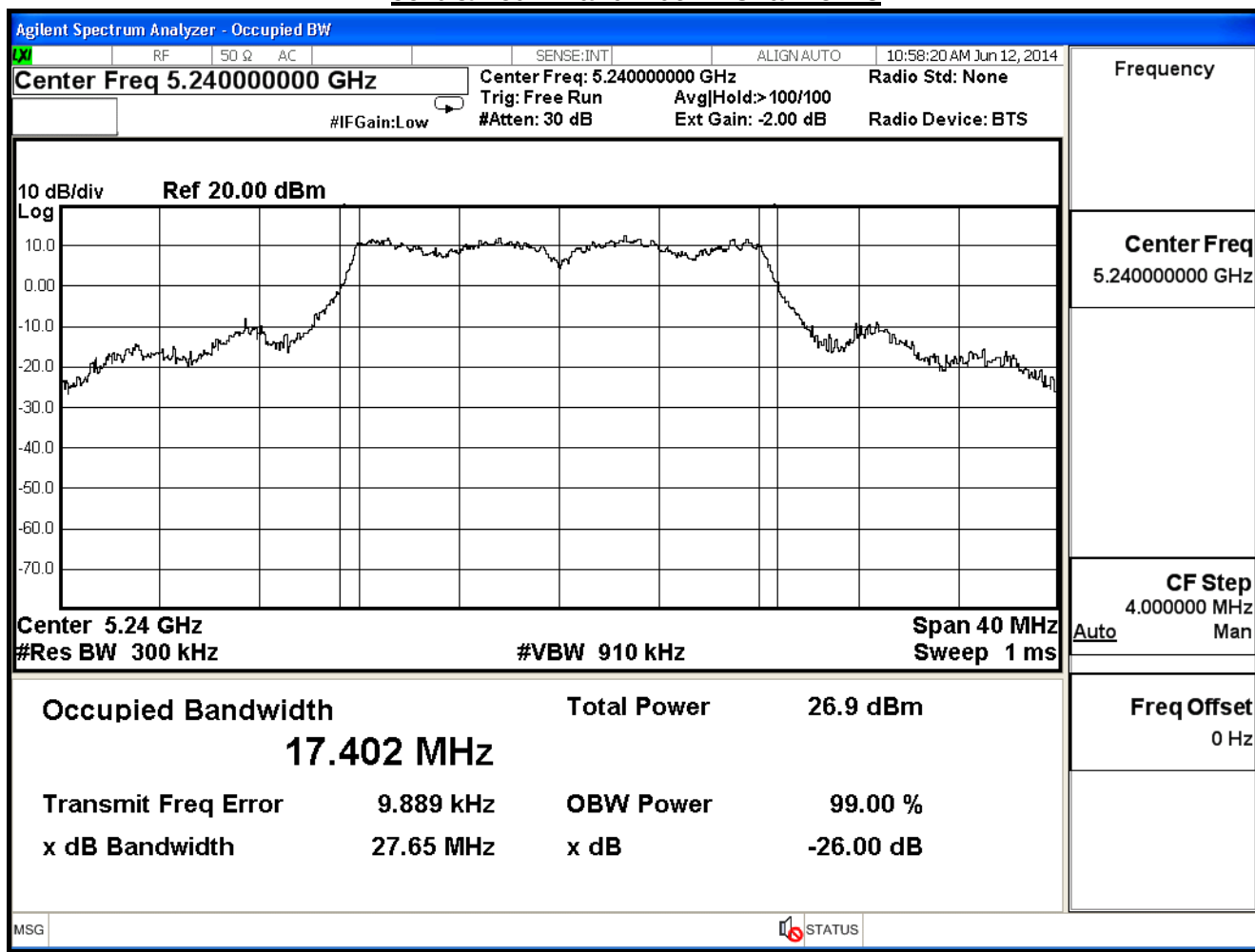
### 99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

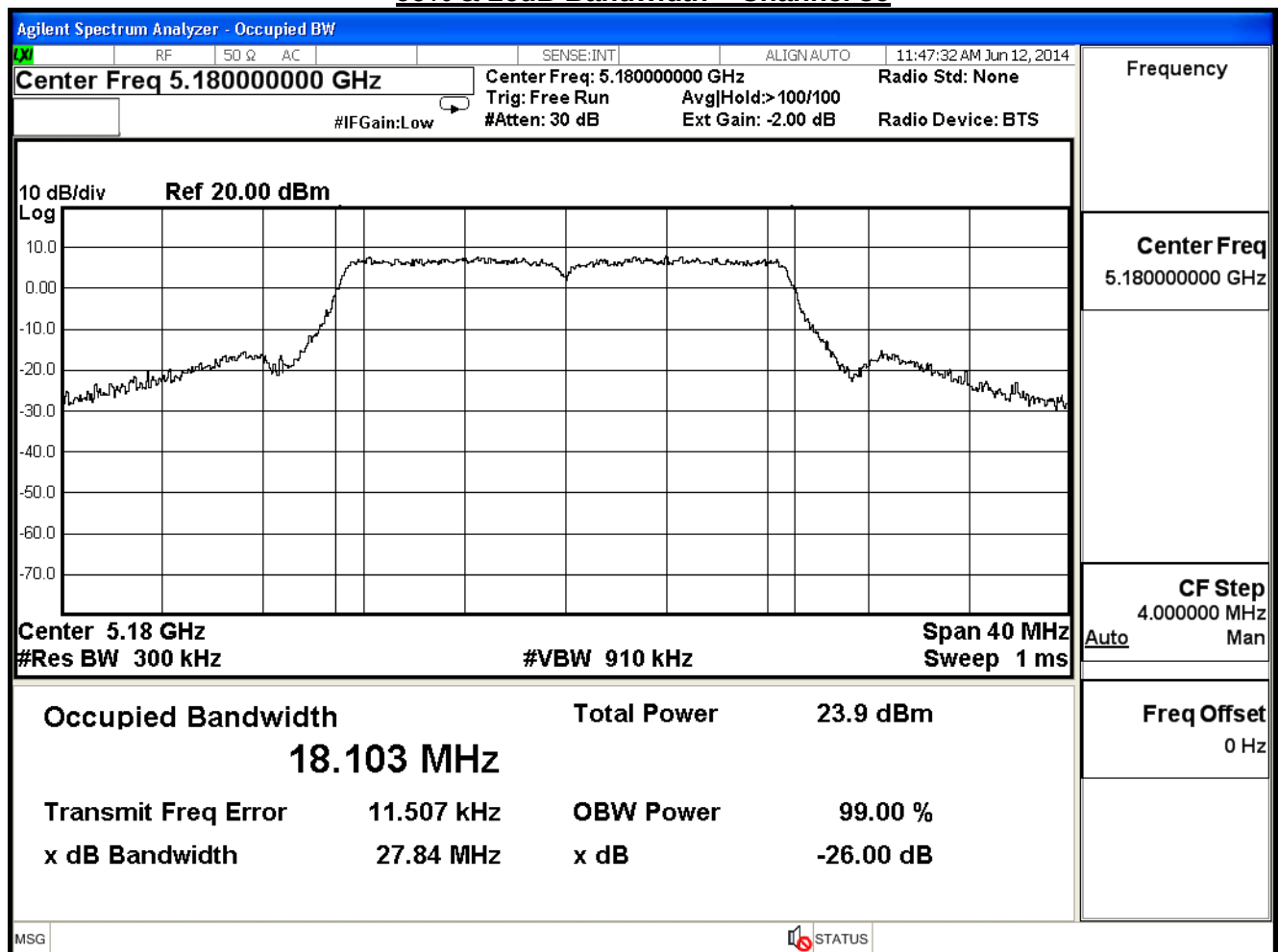


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

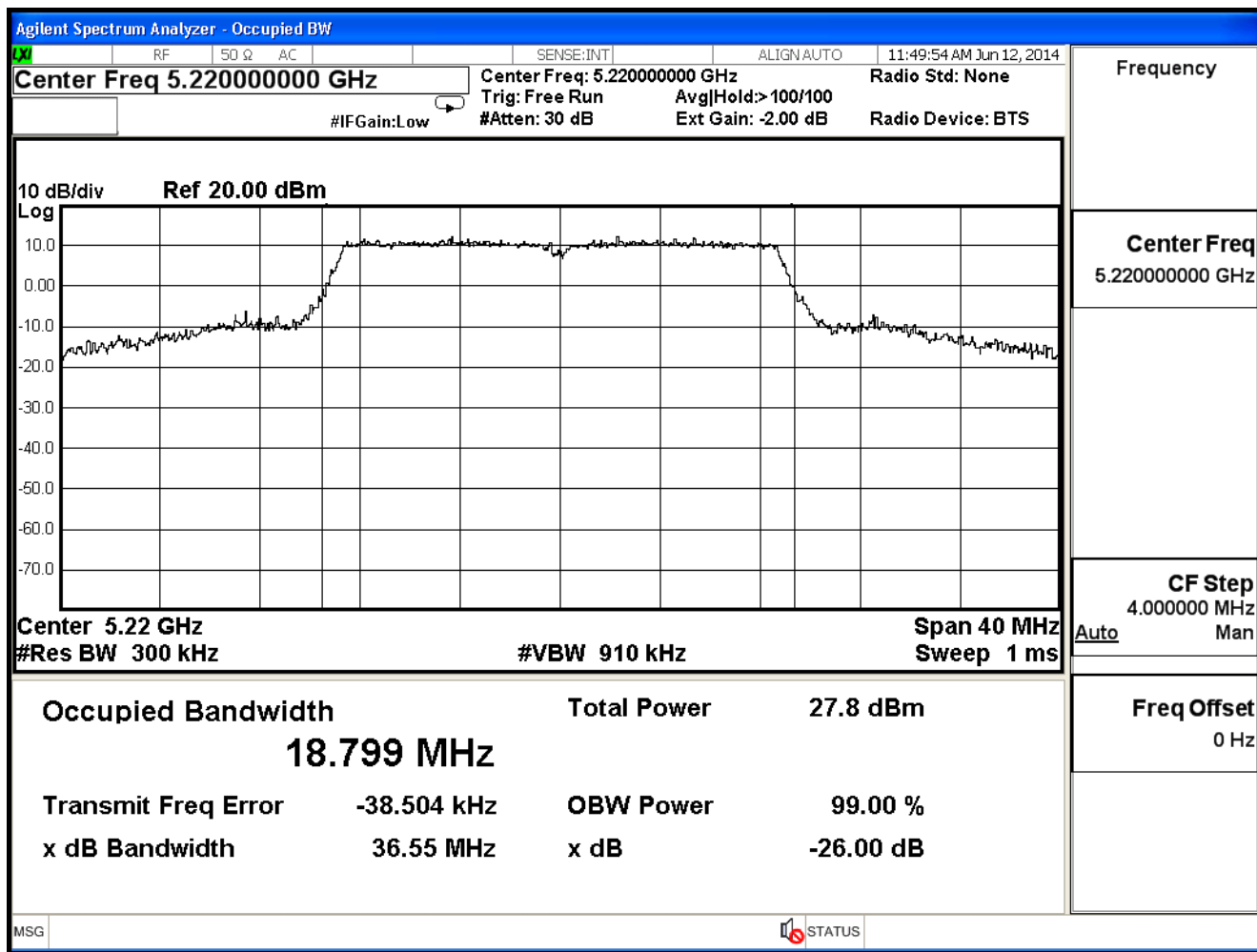
802.11n\_20M(ANT 0)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 36          | 5180            | 27.840        | 18.103         | --                   | Pass   |
| 44          | 5220            | 36.550        | 18.799         | --                   | Pass   |
| 48          | 5240            | 38.460        | 19.178         | --                   | Pass   |

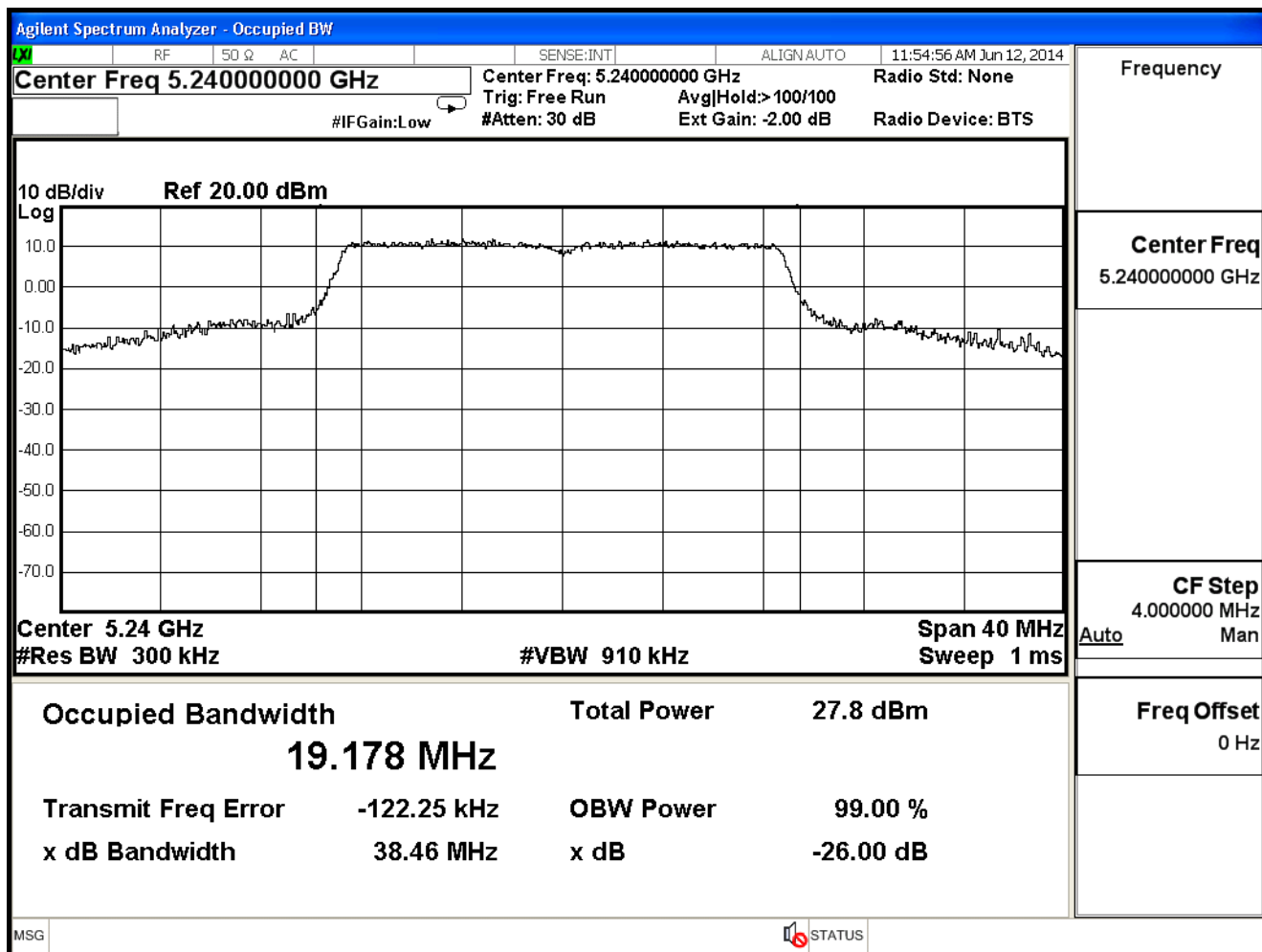
## 99% & 26dB Bandwidth – Channel 36



**99% & 26dB Bandwidth – Channel 44**



99% & 26dB Bandwidth – Channel 48

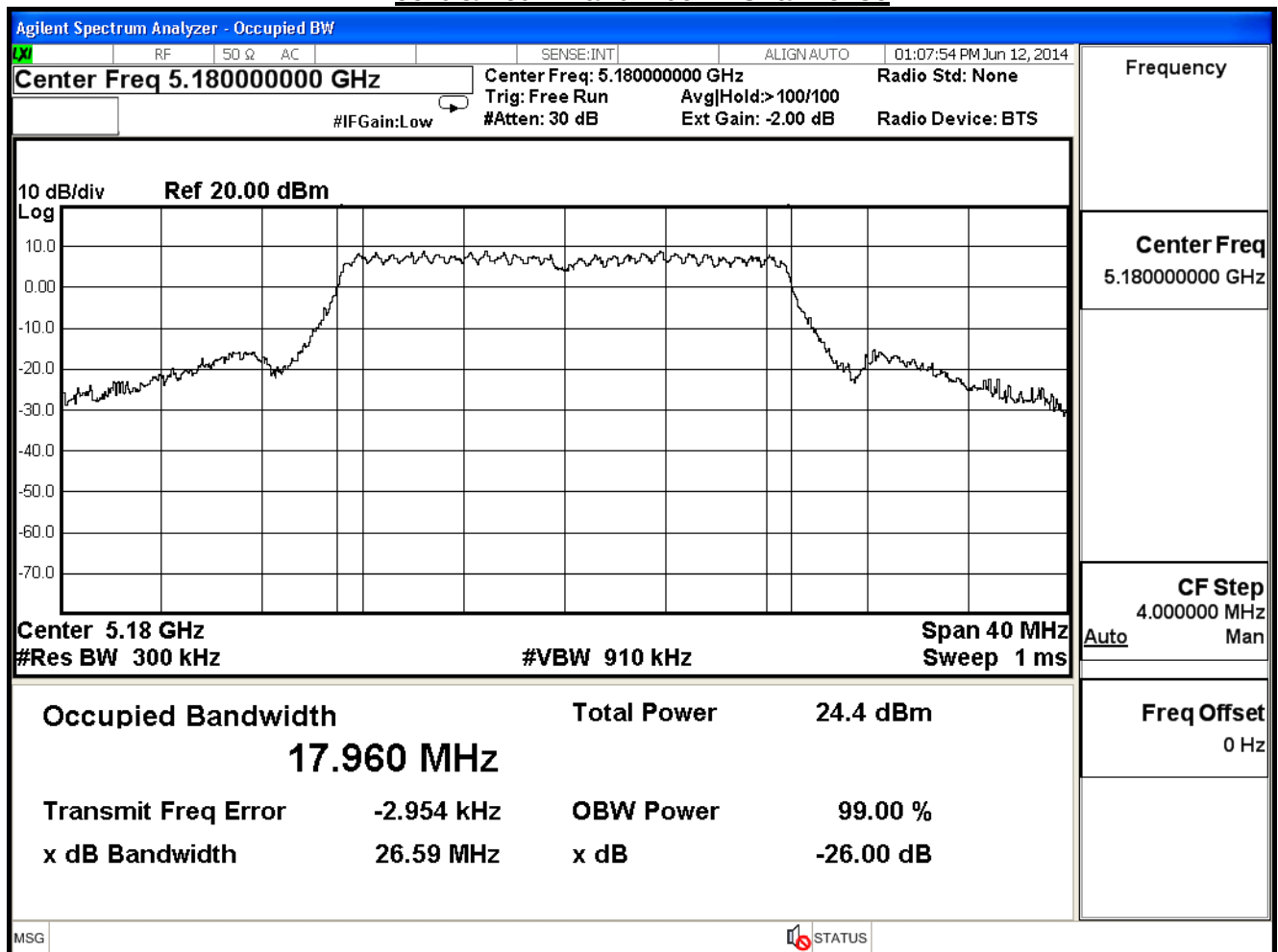


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

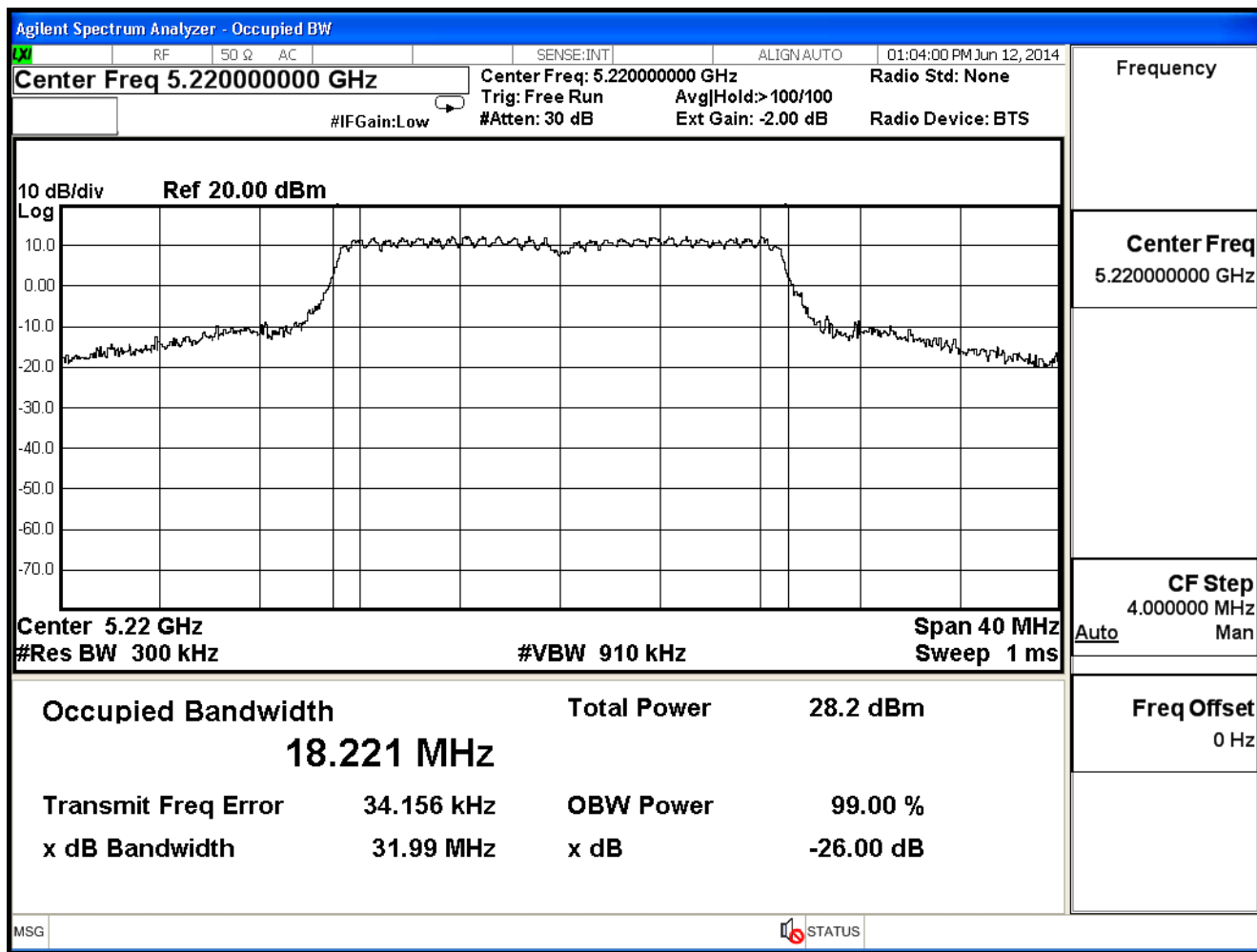
## 802.11n\_20M(ANT 1)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 36          | 5180            | 26.590        | 17.960         | --                   | Pass   |
| 44          | 5220            | 31.990        | 18.221         | --                   | Pass   |
| 48          | 5240            | 31.610        | 18.095         | --                   | Pass   |

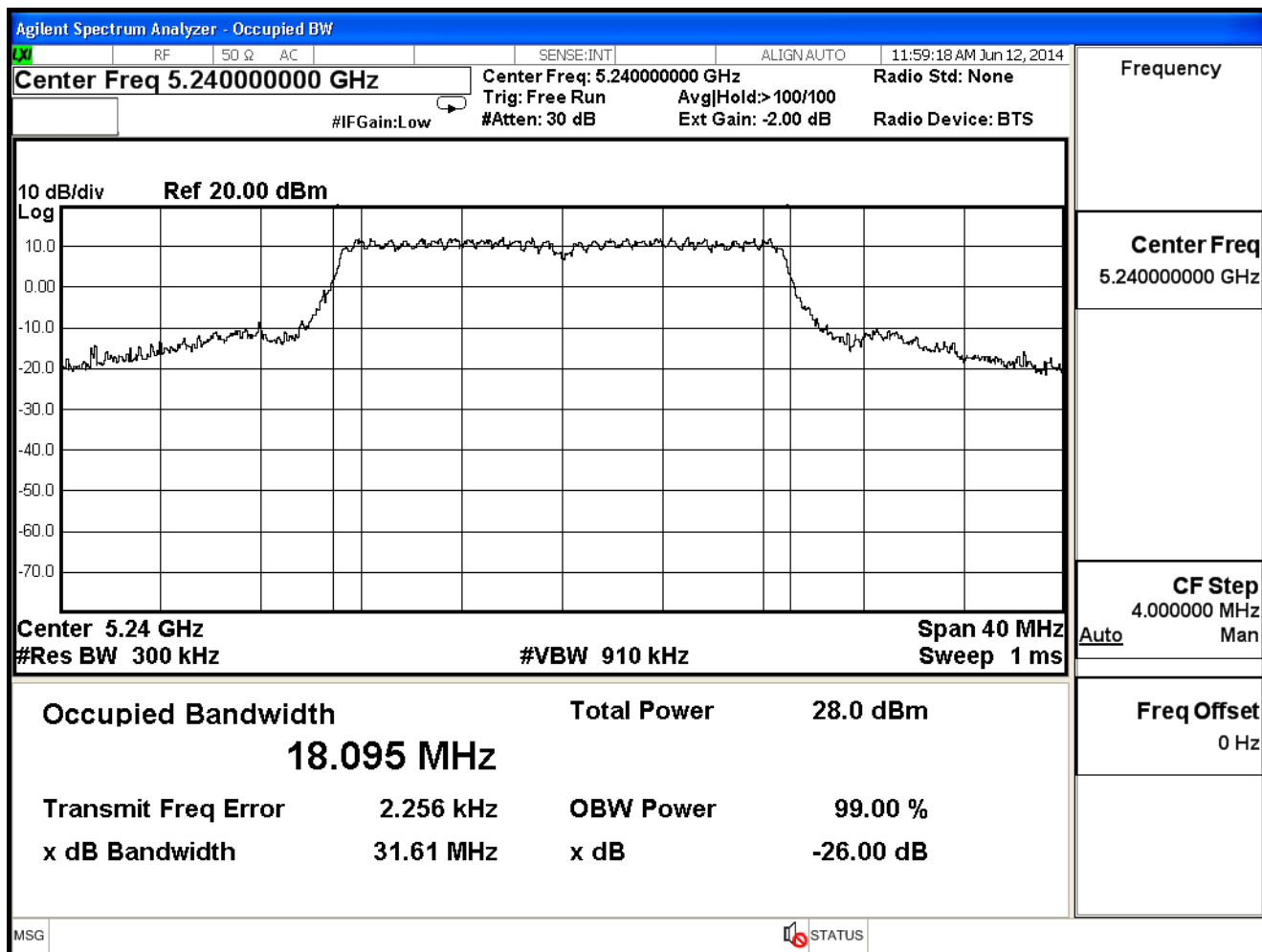
## 99% & 26dB Bandwidth – Channel 36



**99% & 26dB Bandwidth – Channel 44**



**99% & 26dB Bandwidth – Channel 48**

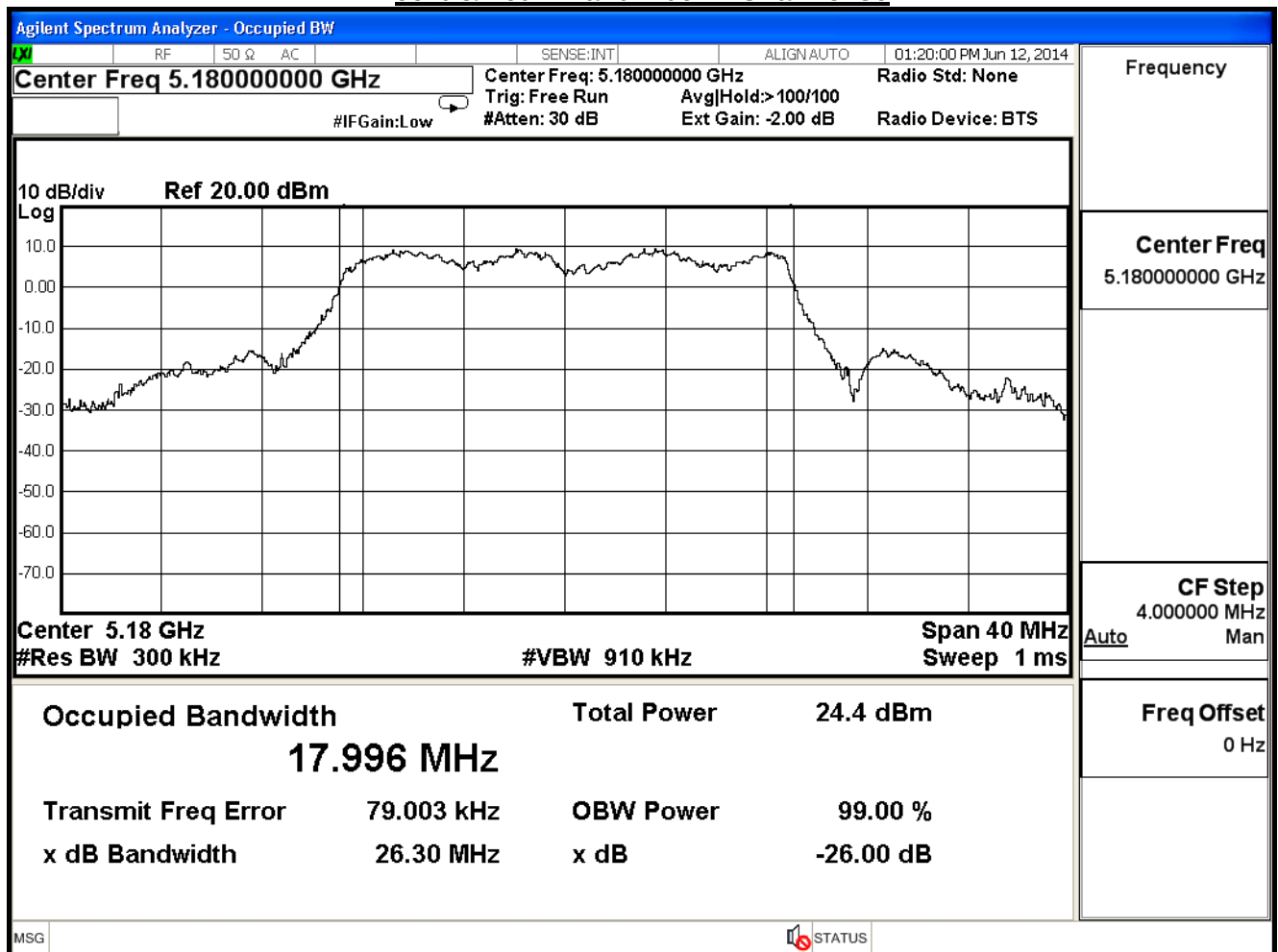


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

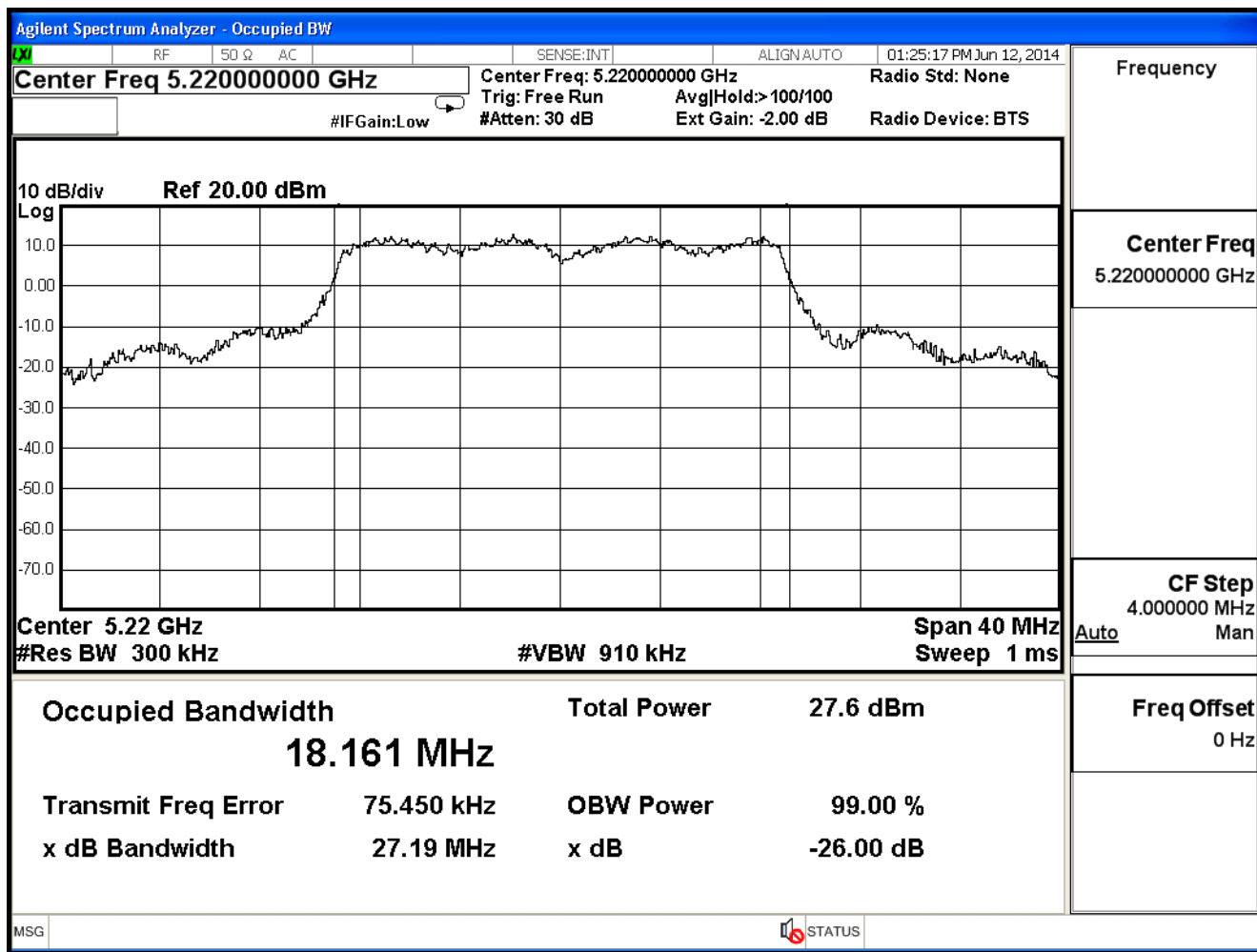
## 802.11n\_20M(ANT 2)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 36          | 5180            | 26.300        | 17.996         | --                   | Pass   |
| 44          | 5220            | 27.190        | 18.161         | --                   | Pass   |
| 48          | 5240            | 27.890        | 18.128         | --                   | Pass   |

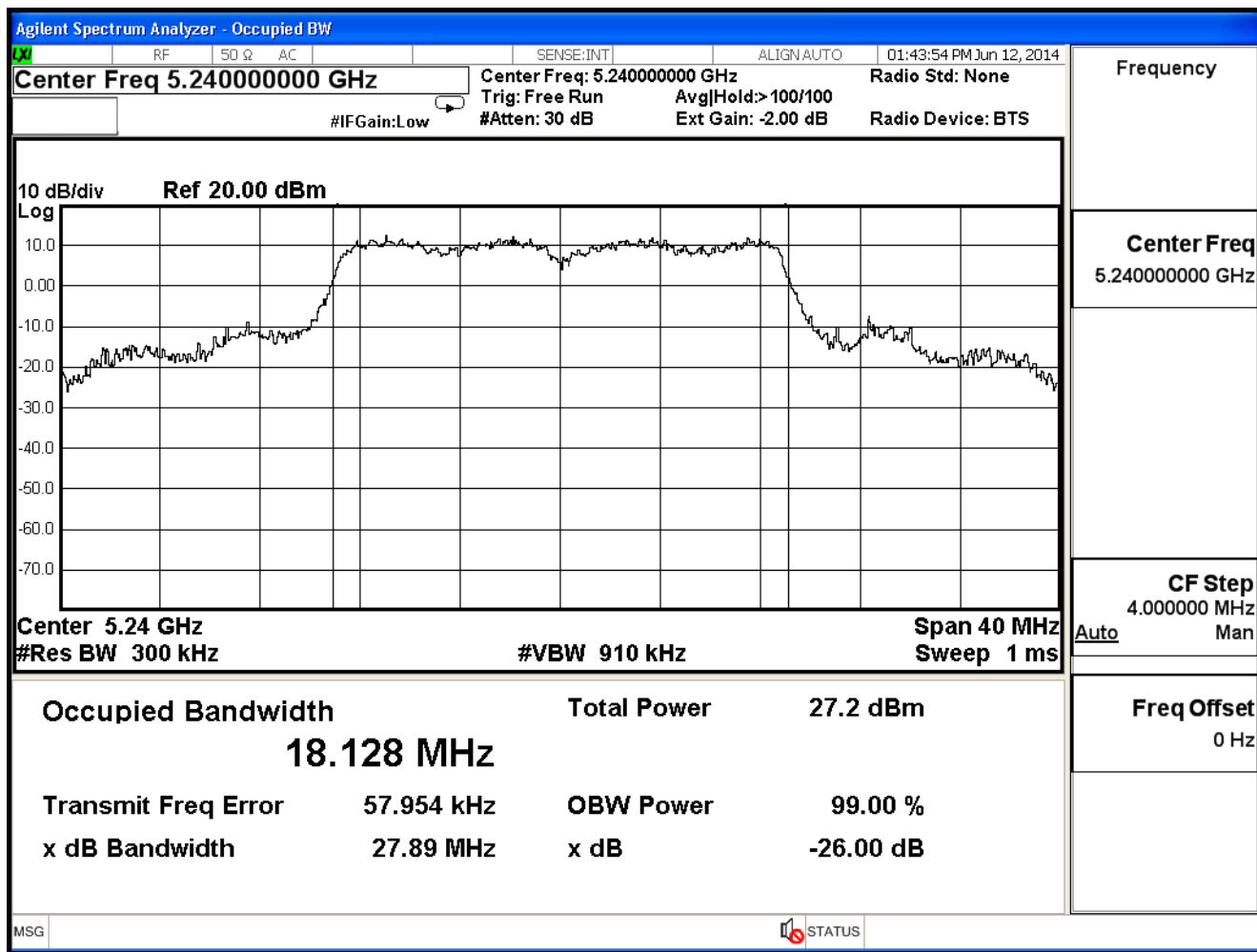
## 99% & 26dB Bandwidth – Channel 36



**99% & 26dB Bandwidth – Channel 44**



**99% & 26dB Bandwidth – Channel 48**

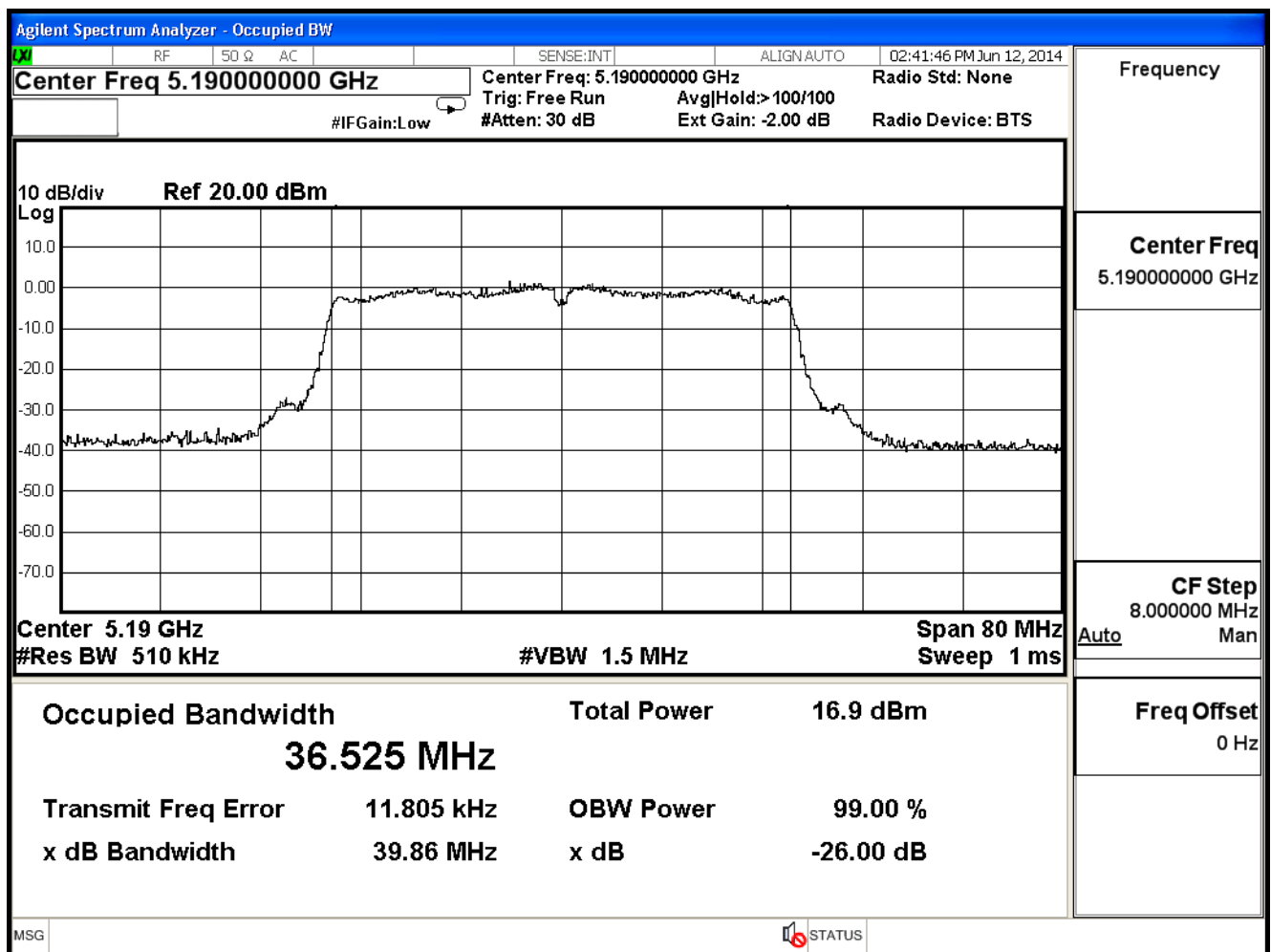


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

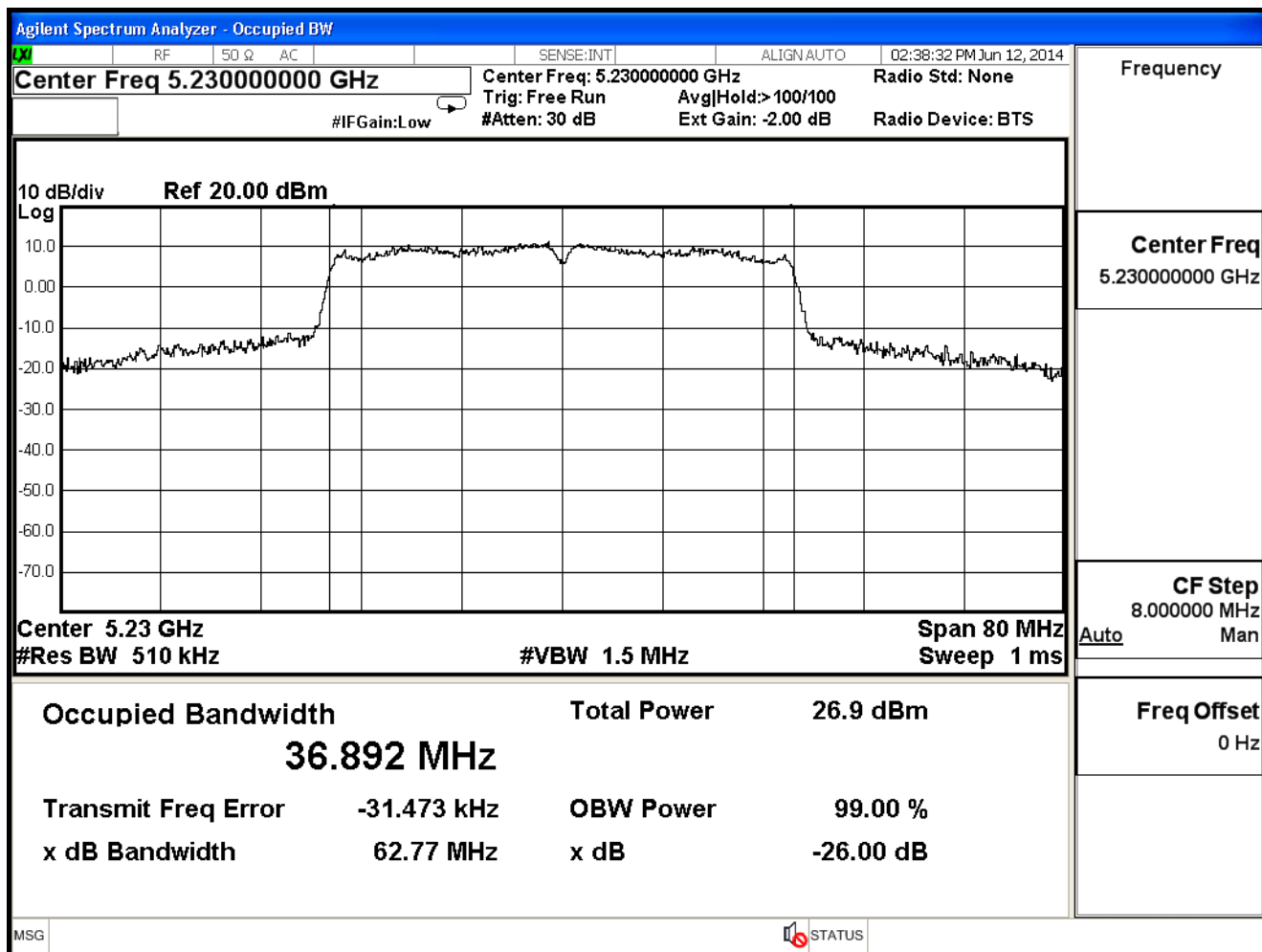
802.11n\_40M(ANT 0)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 38          | 5190            | 39.860        | 36.525         | --                   | Pass   |
| 46          | 5230            | 62.770        | 36.892         | --                   | Pass   |

## 99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

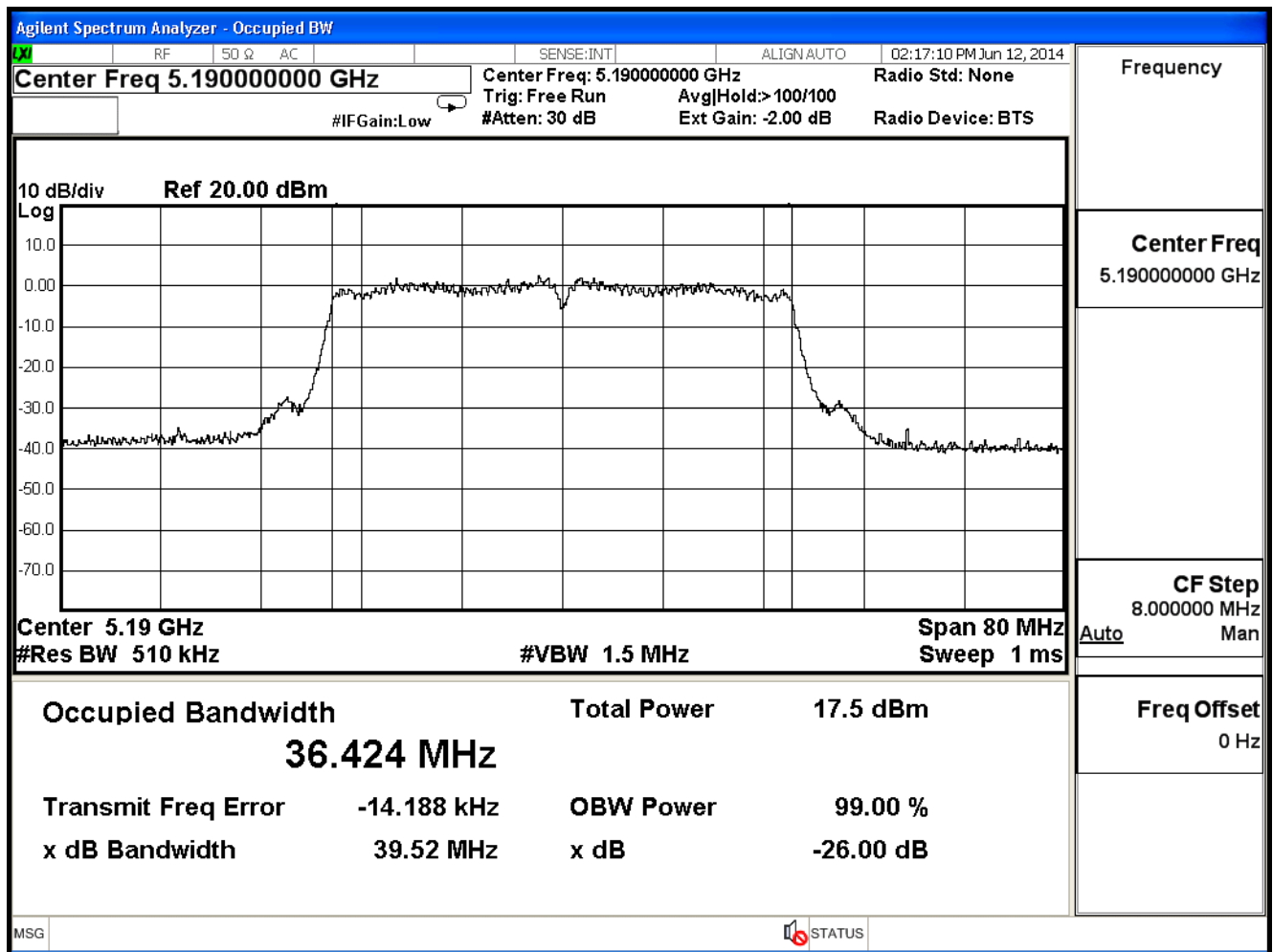


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

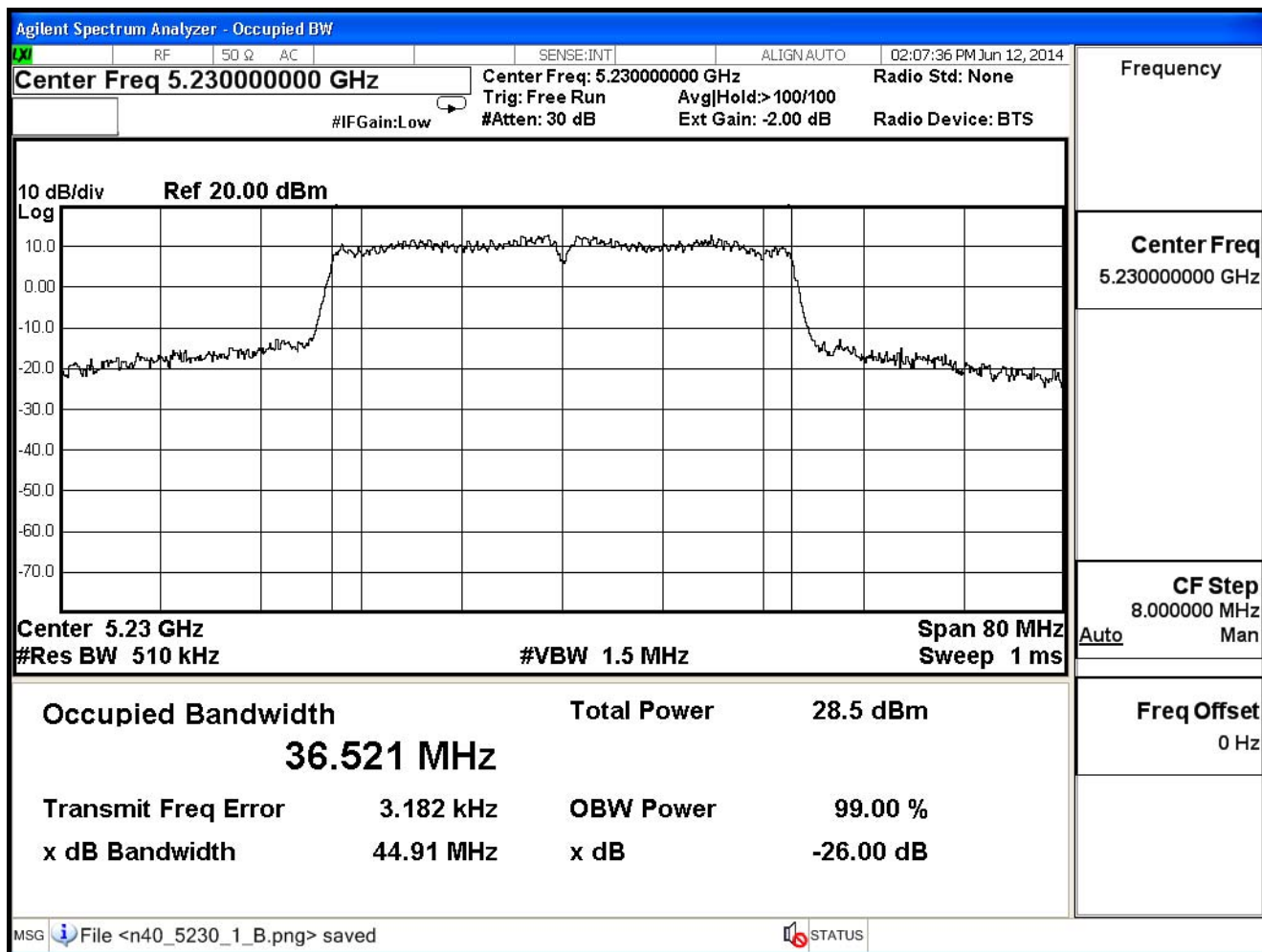
802.11n\_40M(ANT 1)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 38          | 5190            | 39.520        | 36.424         | --                   | Pass   |
| 46          | 5230            | 44.910        | 36.521         | --                   | Pass   |

## 99% & 26dB Bandwidth – Channel 38



**99% & 26dB Bandwidth – Channel 46**

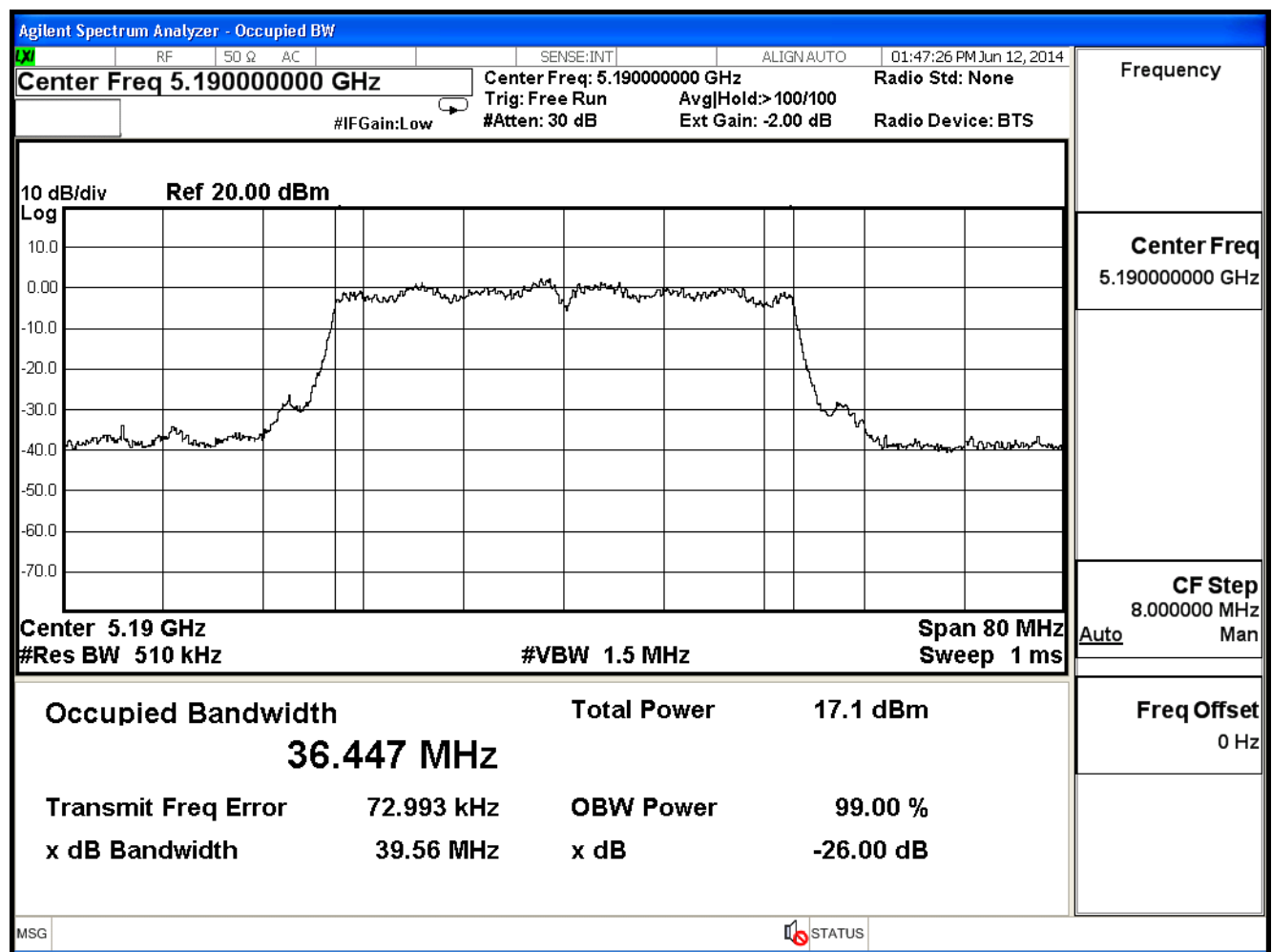


|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | 99% & 26dB Bandwidth                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

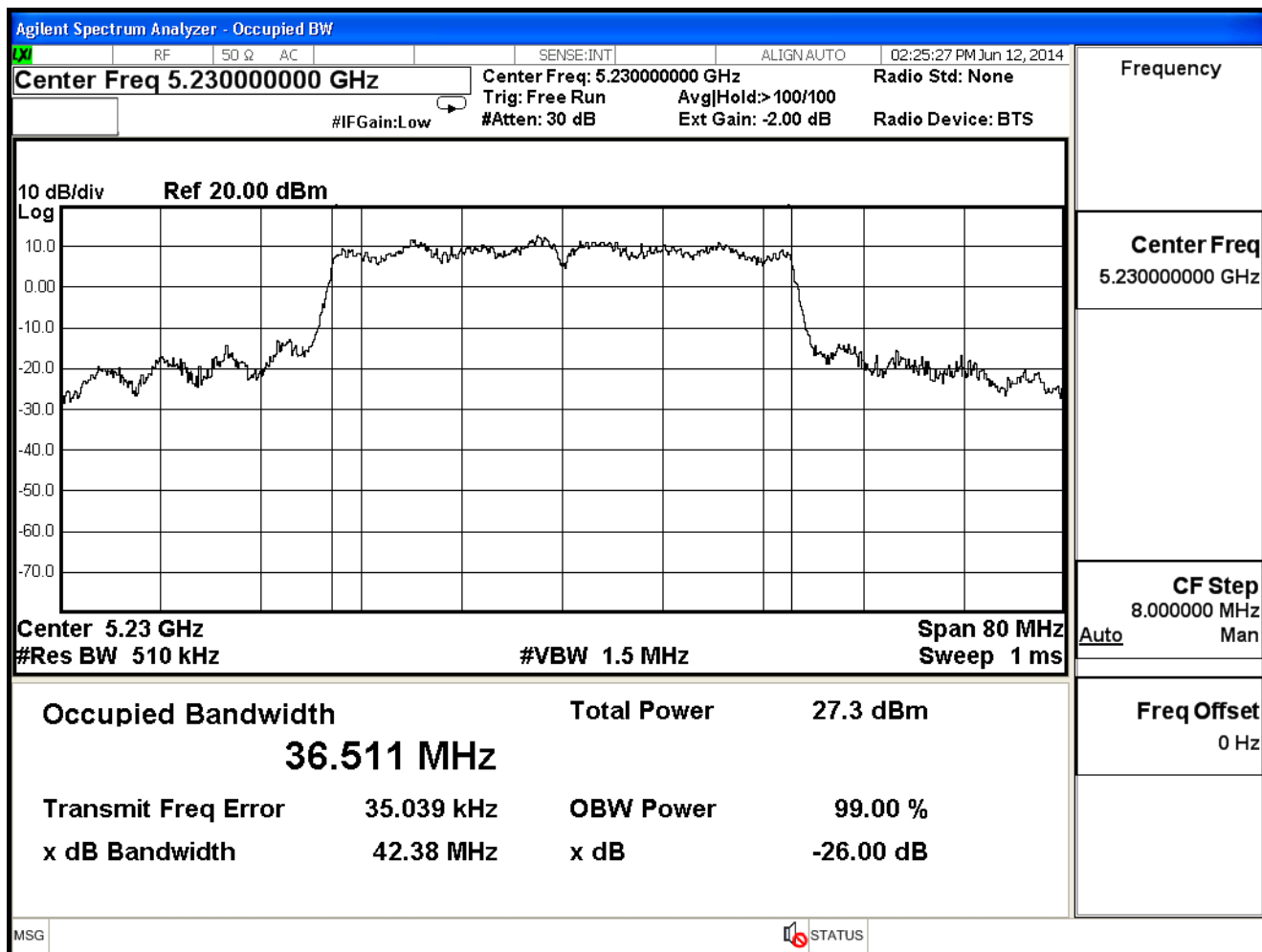
802.11n\_40M(ANT 2)

| Channel No. | Frequency (MHz) | 26dB BW (MHz) | 99 % OBW (MHz) | Required Limit (MHz) | Result |
|-------------|-----------------|---------------|----------------|----------------------|--------|
| 38          | 5190            | 39.560        | 36.447         | --                   | Pass   |
| 46          | 5230            | 42.380        | 36.511         | --                   | Pass   |

## 99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46



## 4. Peak Transmit Output

### 4.1. Test Equipment

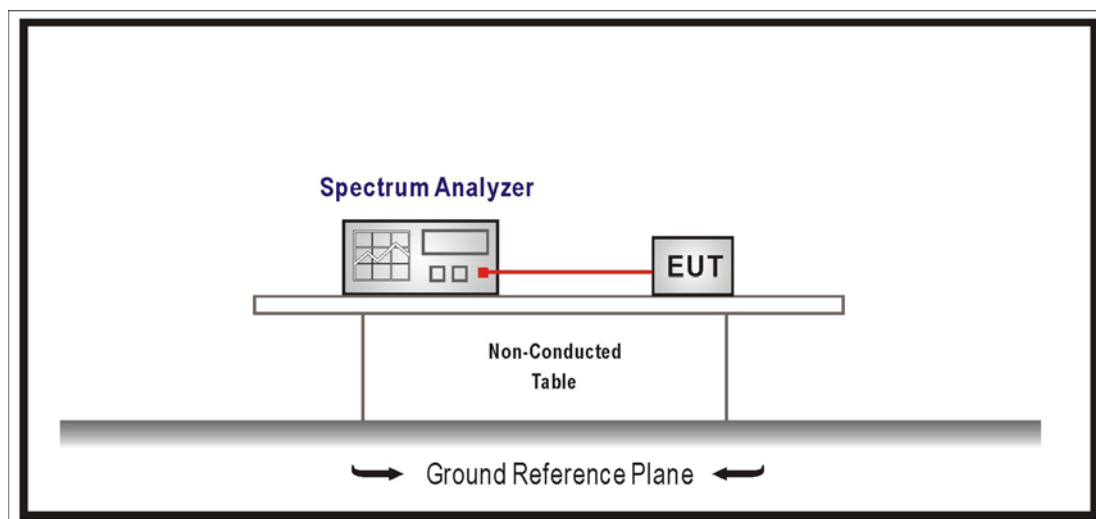
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

| Instrument        | Manufacturer | Model No.  | Serial No  | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent      | N9010A-EXA | US47140172 | 2014/08/05     |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 4.2. Test Setup



#### 4.3. Limits

1. For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W or  $4 \text{ dBm} + 10\log B$ , where B is the 26dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10\log B$ , where B is the 26dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.825 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W or  $17 \text{ dBm} + 10\log B$ , where B is the 26dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

#### 4.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

Set RBW=1MHz, VBW $\geq$ 3MHz with RMS detector and trace average 100 traces in power averaging mode. Set span to encompass the entire emission bandwidth (EBW) of the signal. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

#### 4.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1.27 \text{ dB}$

#### 4.6. Test Result

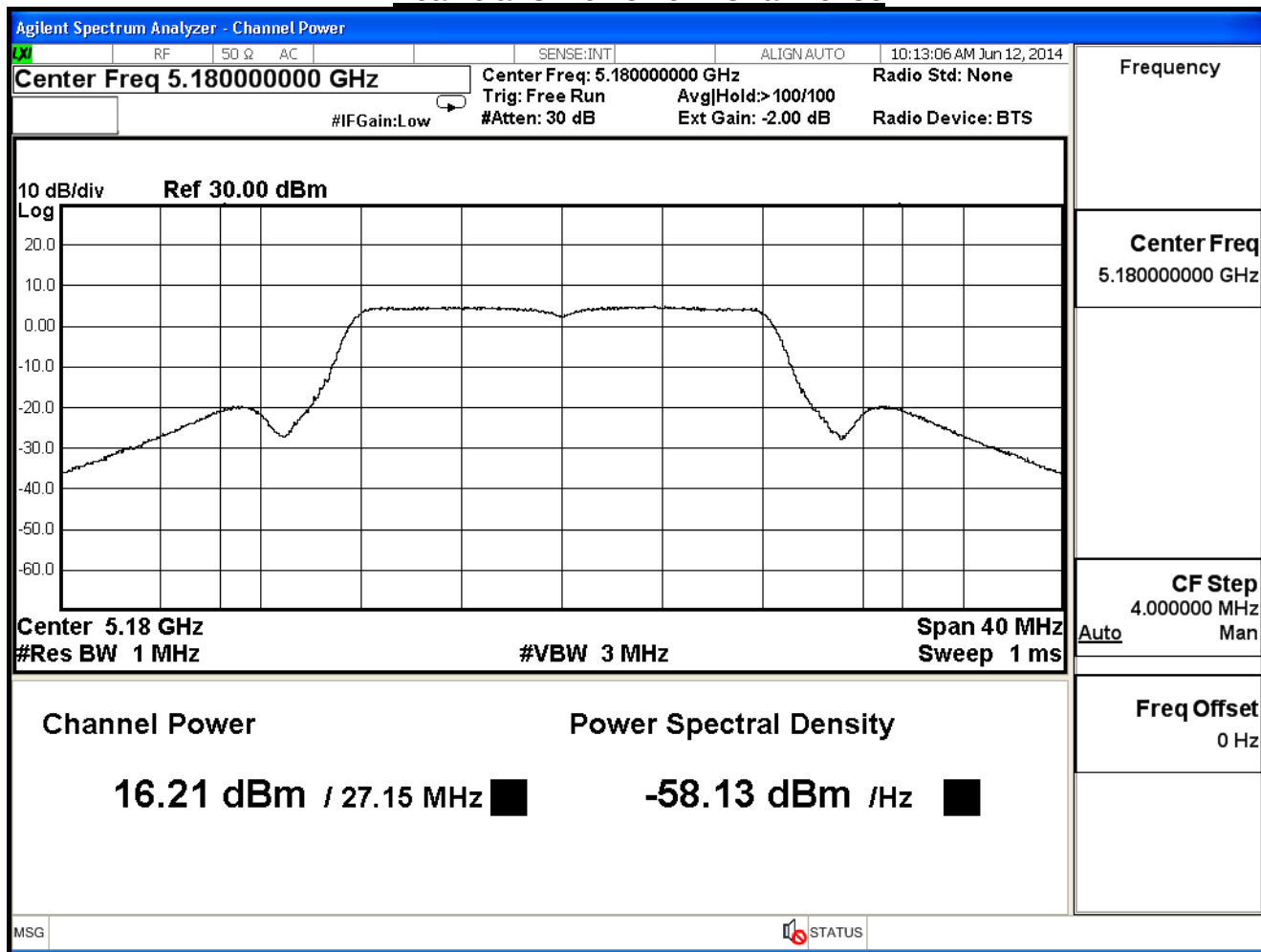
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| 802.11a (ANT 0) |                 |                      |                    |                   |                      |        |
|-----------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.     | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                 |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 36              | 5180            | 27.150               | 16.210             | ≤30               | 31.34                | Pass   |
| 44              | 5220            | 35.580               | 20.690             | ≤30               | 32.51                | Pass   |
| 48              | 5240            | 36.630               | 20.610             | ≤30               | 32.64                | Pass   |

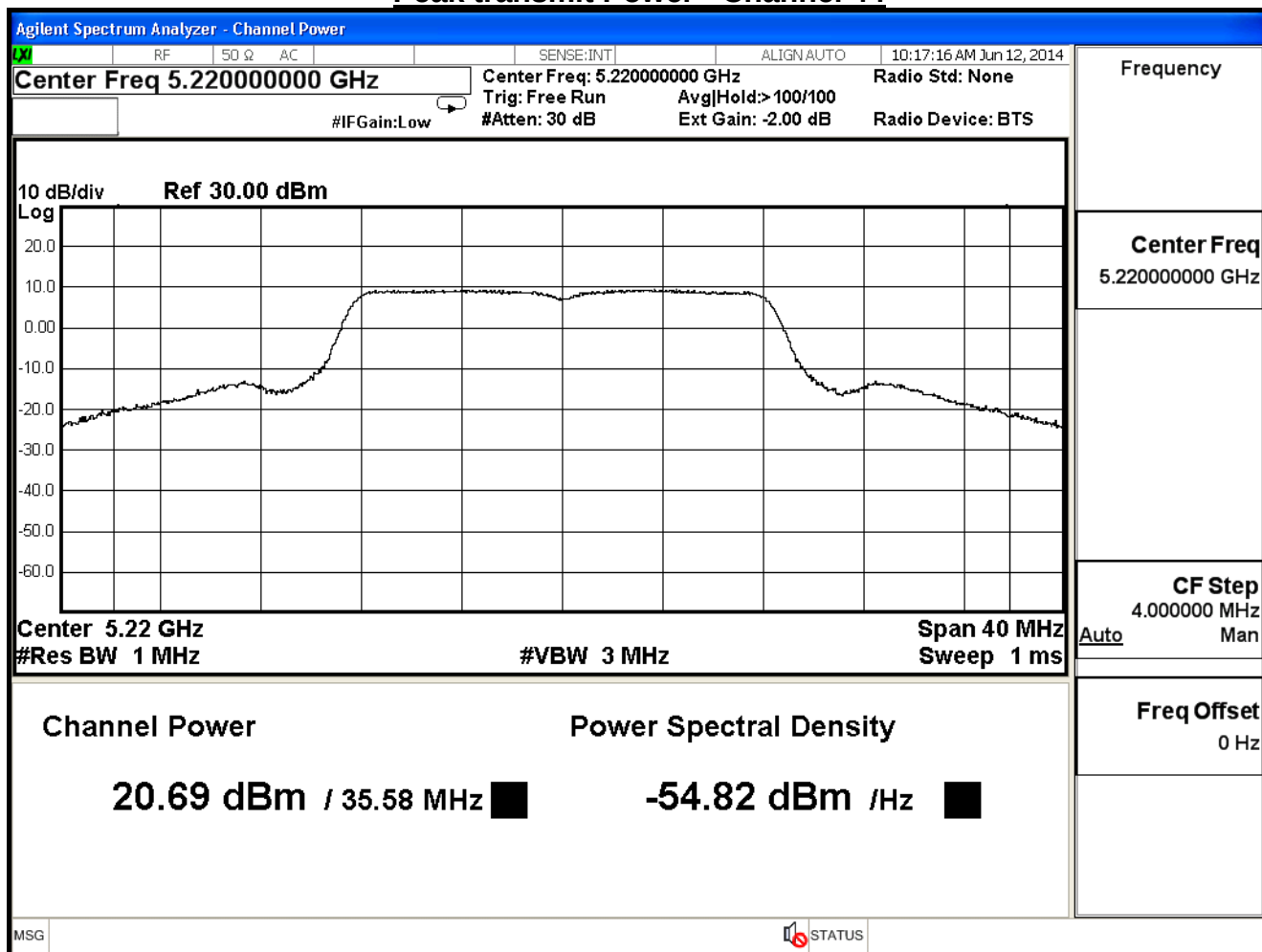
The worst emission of data rate is 6 Mbps.

| Power Output (dBm) |                 |           |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|----------------------|
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       | Required Limit       |
|                    |                 | 6         | 12    | 18    | 24    | 36    | 48    | 54    |                      |
| 36                 | 5180            | 16.210    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220            | 20.690    | 20.59 | 20.39 | 20.29 | 20.09 | 19.97 | 19.73 |                      |
| 48                 | 5240            | 20.610    | --    | --    | --    | --    | --    | --    |                      |

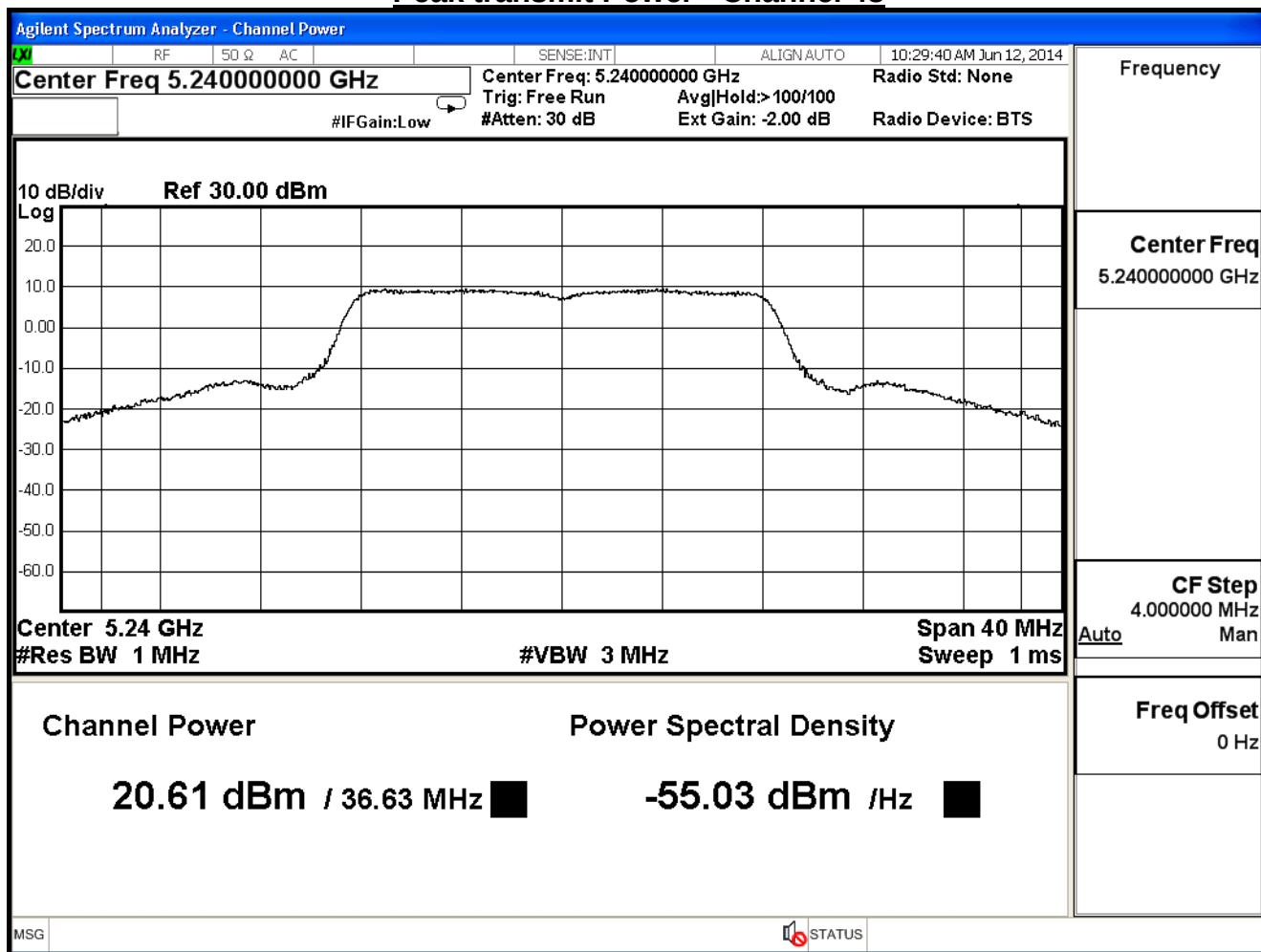
# Peak transmit Power - Channel 36



# Peak transmit Power - Channel 44



## Peak transmit Power - Channel 48



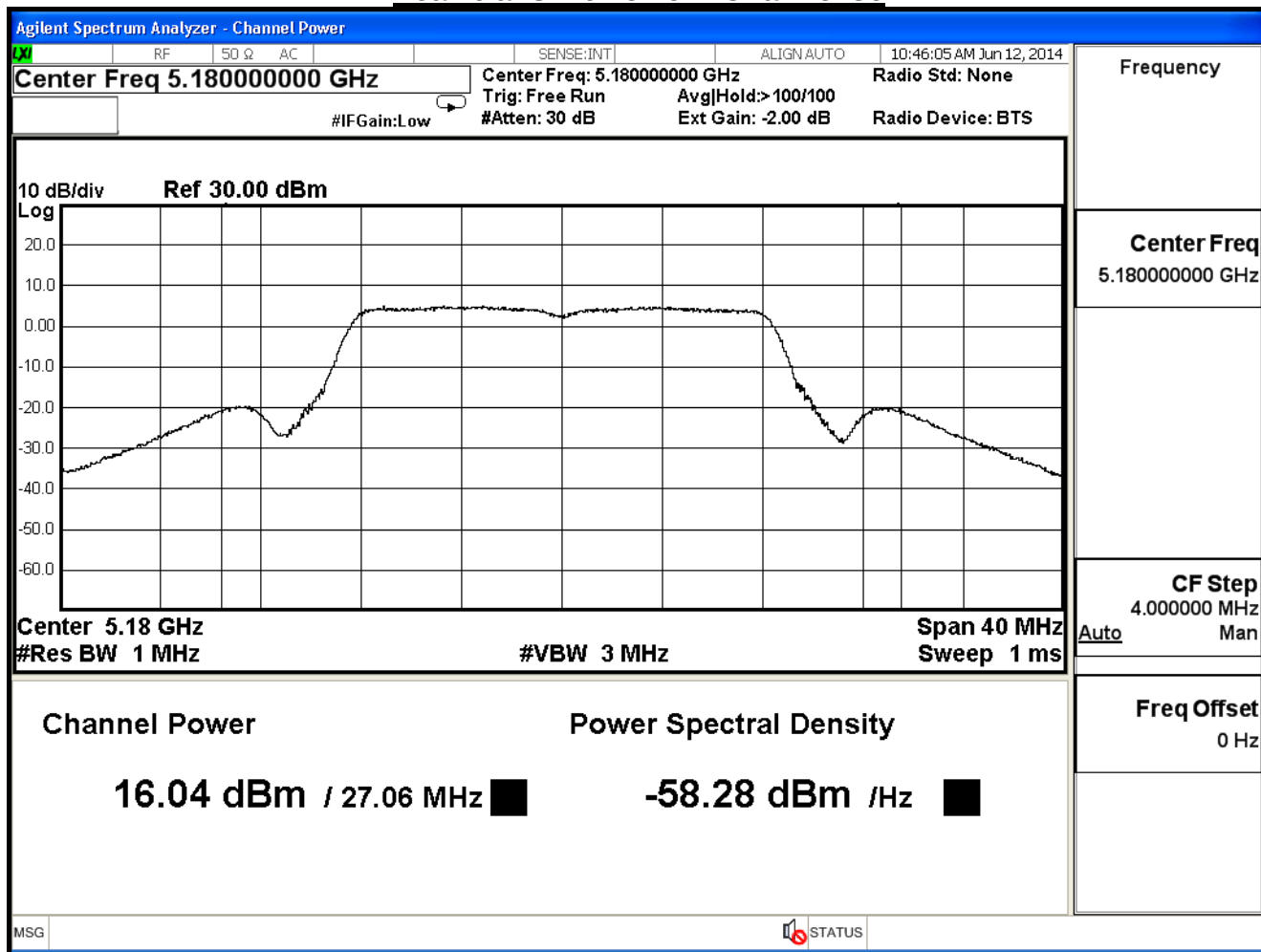
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| 802.11a (ANT 1) |                 |                      |                    |                   |                      |        |
|-----------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.     | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                 |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 36              | 5180            | 27.060               | 16.040             | ≤30               | 31.32                | Pass   |
| 44              | 5220            | 31.540               | 20.260             | ≤30               | 31.99                | Pass   |
| 48              | 5240            | 31.600               | 20.380             | ≤30               | 32.00                | Pass   |

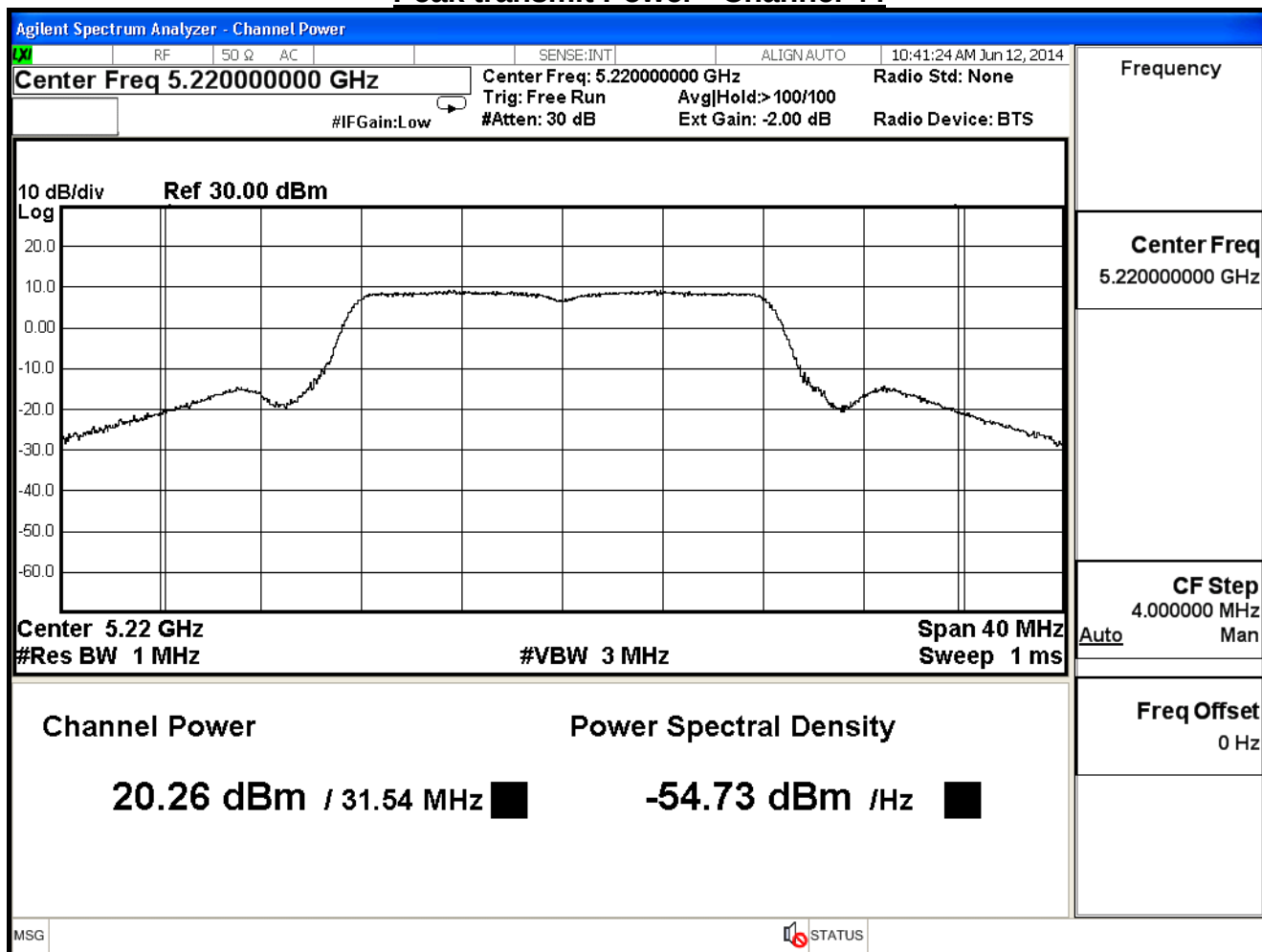
The worst emission of data rate is 6 Mbps.

| Power Output (dBm) |                 |           |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|----------------------|
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       | Required Limit       |
|                    |                 | 6         | 12    | 18    | 24    | 36    | 48    | 54    |                      |
| 36                 | 5180            | 16.040    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220            | 20.260    | 20.06 | 19.96 | 19.76 | 19.56 | 19.44 | 19.20 |                      |
| 48                 | 5240            | 20.380    | --    | --    | --    | --    | --    | --    |                      |

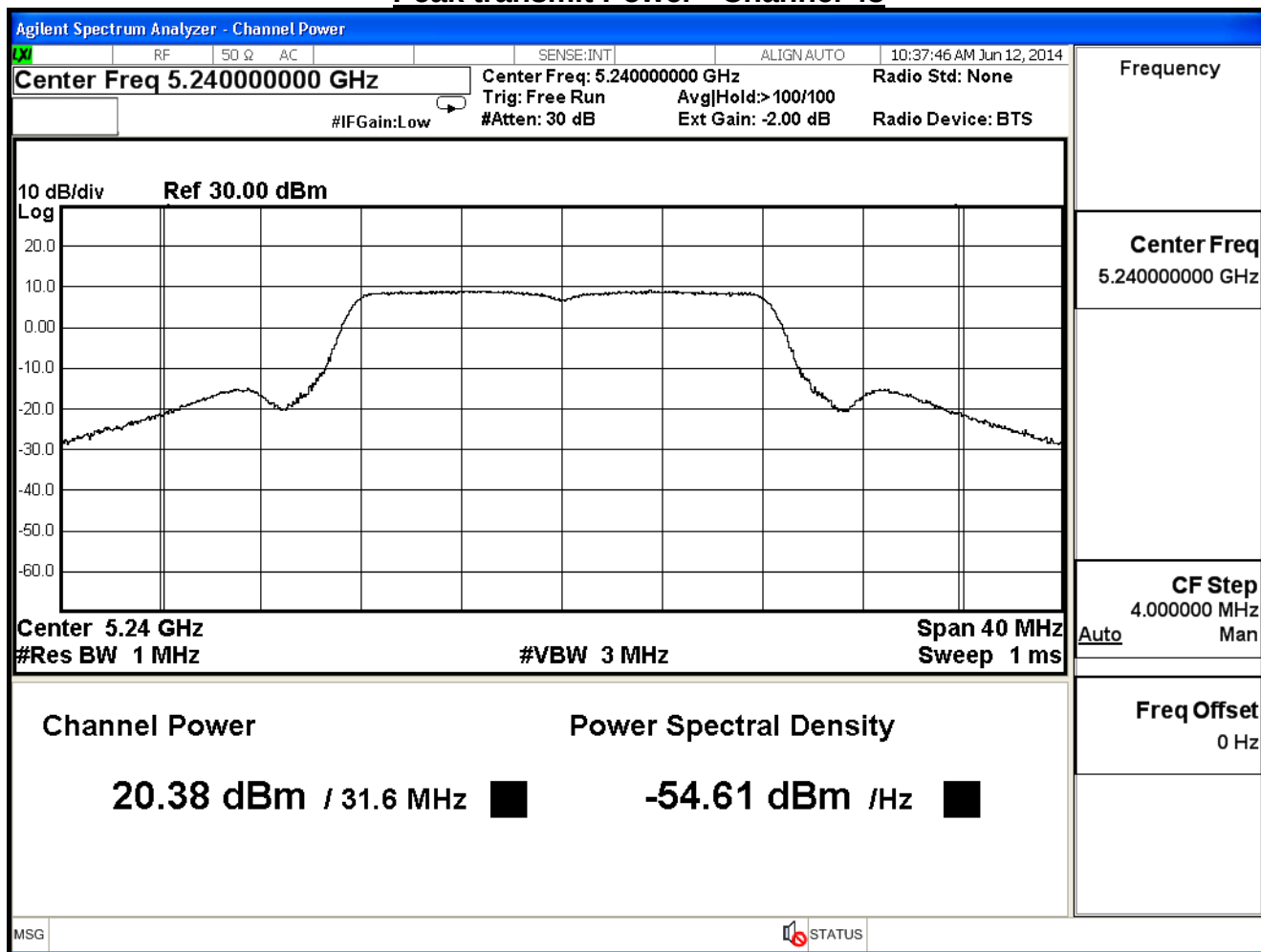
# Peak transmit Power - Channel 36



# Peak transmit Power - Channel 44



# Peak transmit Power - Channel 48



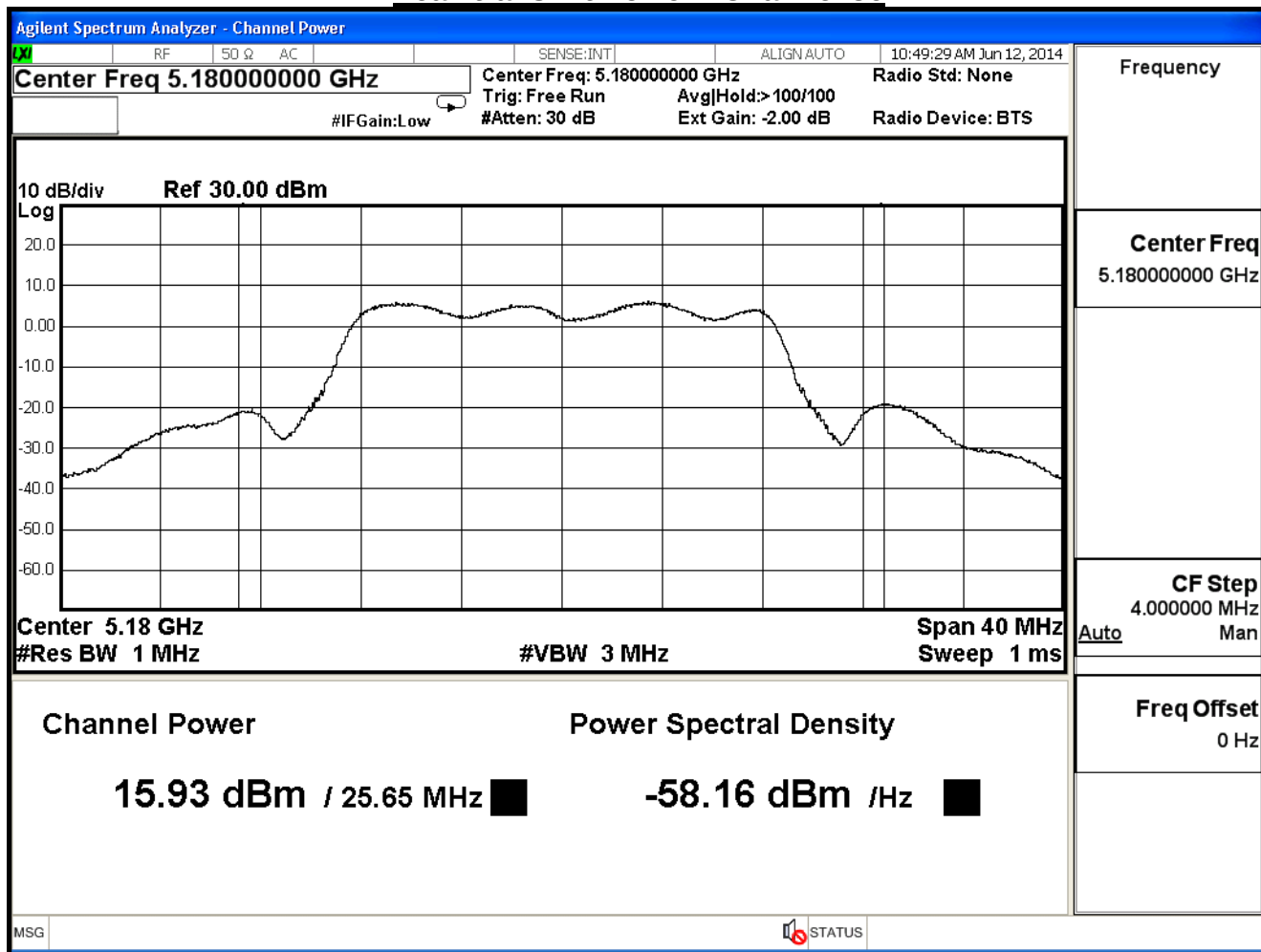
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| 802.11a (ANT 2) |                 |                      |                    |                   |                      |        |
|-----------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.     | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                 |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 36              | 5180            | 25.650               | 15.930             | ≤30               | 31.09                | Pass   |
| 44              | 5220            | 27.490               | 19.570             | ≤30               | 31.39                | Pass   |
| 48              | 5240            | 27.650               | 19.650             | ≤30               | 31.42                | Pass   |

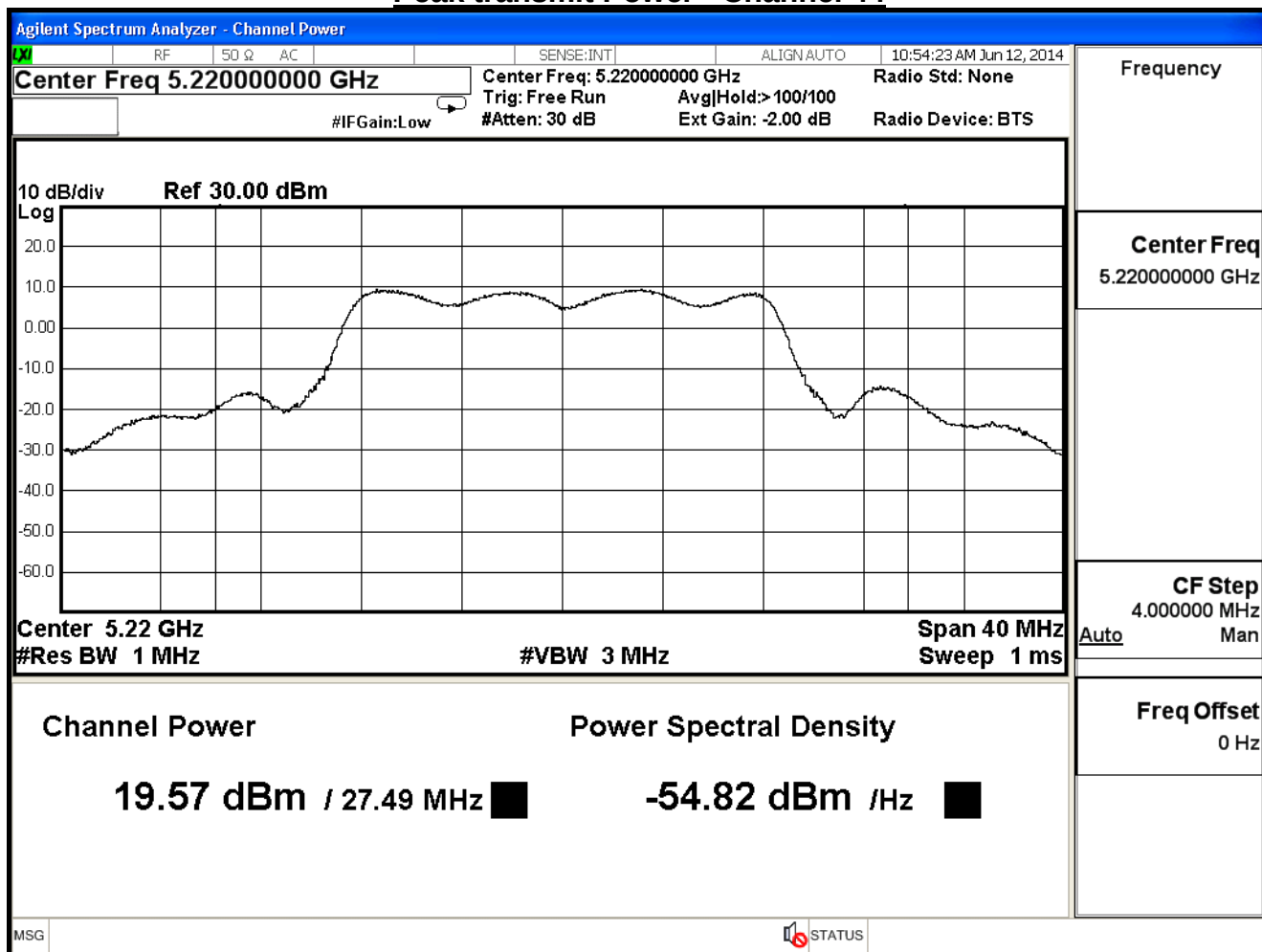
The worst emission of data rate is 6 Mbps.

| Power Output (dBm) |                 |           |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|----------------------|
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       | Required Limit       |
|                    |                 | 6         | 12    | 18    | 24    | 36    | 48    | 54    |                      |
| 36                 | 5180            | 15.930    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220            | 19.570    | 19.37 | 19.17 | 19.07 | 18.97 | 18.85 | 18.61 |                      |
| 48                 | 5240            | 19.650    | --    | --    | --    | --    | --    | --    |                      |

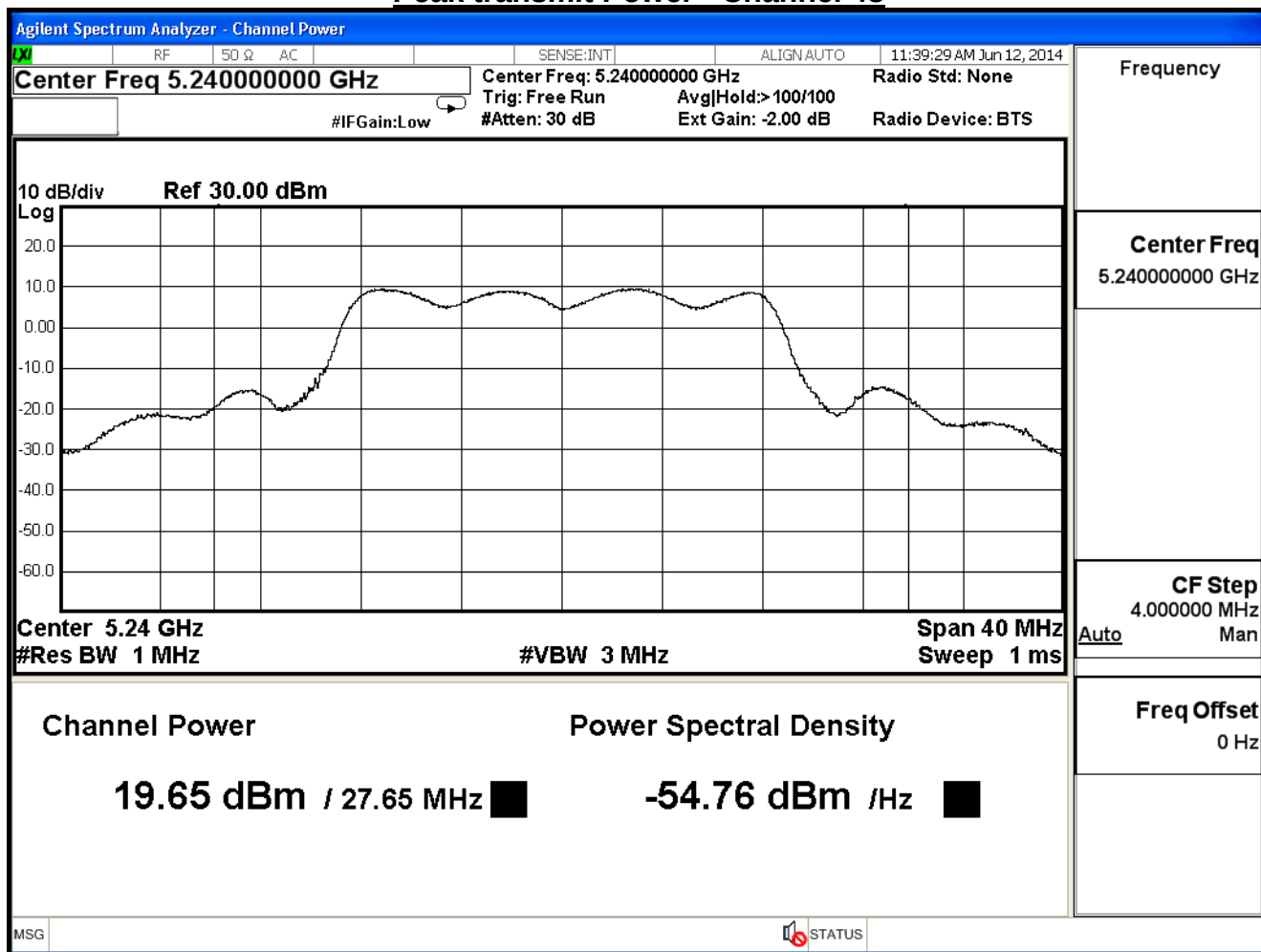
# Peak transmit Power - Channel 36



## Peak transmit Power - Channel 44



# Peak transmit Power - Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| 802.11a (ANT 0+1+2) |                 |                    |        |                      |        |
|---------------------|-----------------|--------------------|--------|----------------------|--------|
| Channel No.         | Frequency (MHz) | Total Output Power |        | Required Limit (dBm) | Result |
|                     |                 | (mW)               | (dBm)  |                      |        |
| 36                  | 5180            | 121.136            | 20.833 | ≤30                  | Pass   |
| 44                  | 5220            | 313.962            | 24.969 | ≤30                  | Pass   |
| 48                  | 5240            | 316.481            | 25.003 | ≤30                  | Pass   |

The worst emission of data rate is 6 Mbps.

| Power Output (dBm) |                 |           |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|----------------------|
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       | Required Limit       |
|                    |                 | 6         | 12    | 18    | 24    | 36    | 48    | 54    |                      |
| 36                 | 5180            | 20.833    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220            | 24.969    | 24.81 | 24.64 | 24.51 | 24.34 | 24.22 | 23.98 |                      |
| 48                 | 5240            | 25.003    | --    | --    | --    | --    | --    | --    |                      |

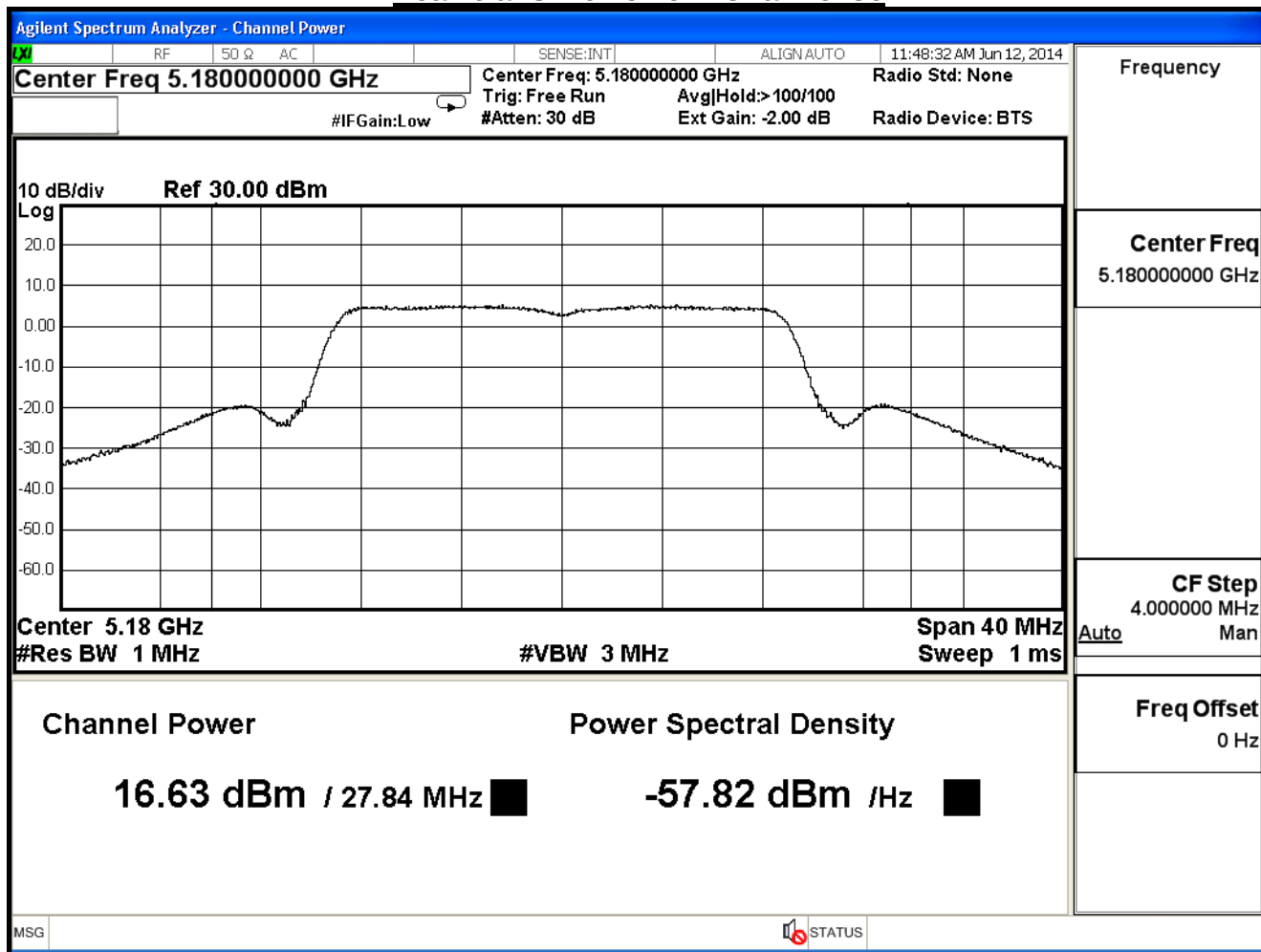
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(20MHz)(ANT 0) |                 |                      |                    |                   |                      |        |
|----------------------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.                | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                            |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 36                         | 5180            | 27.840               | 16.630             | ≤30               | 31.45                | Pass   |
| 44                         | 5220            | 36.550               | 20.630             | ≤30               | 32.63                | Pass   |
| 48                         | 5240            | 38.460               | 20.540             | ≤30               | 32.85                | Pass   |

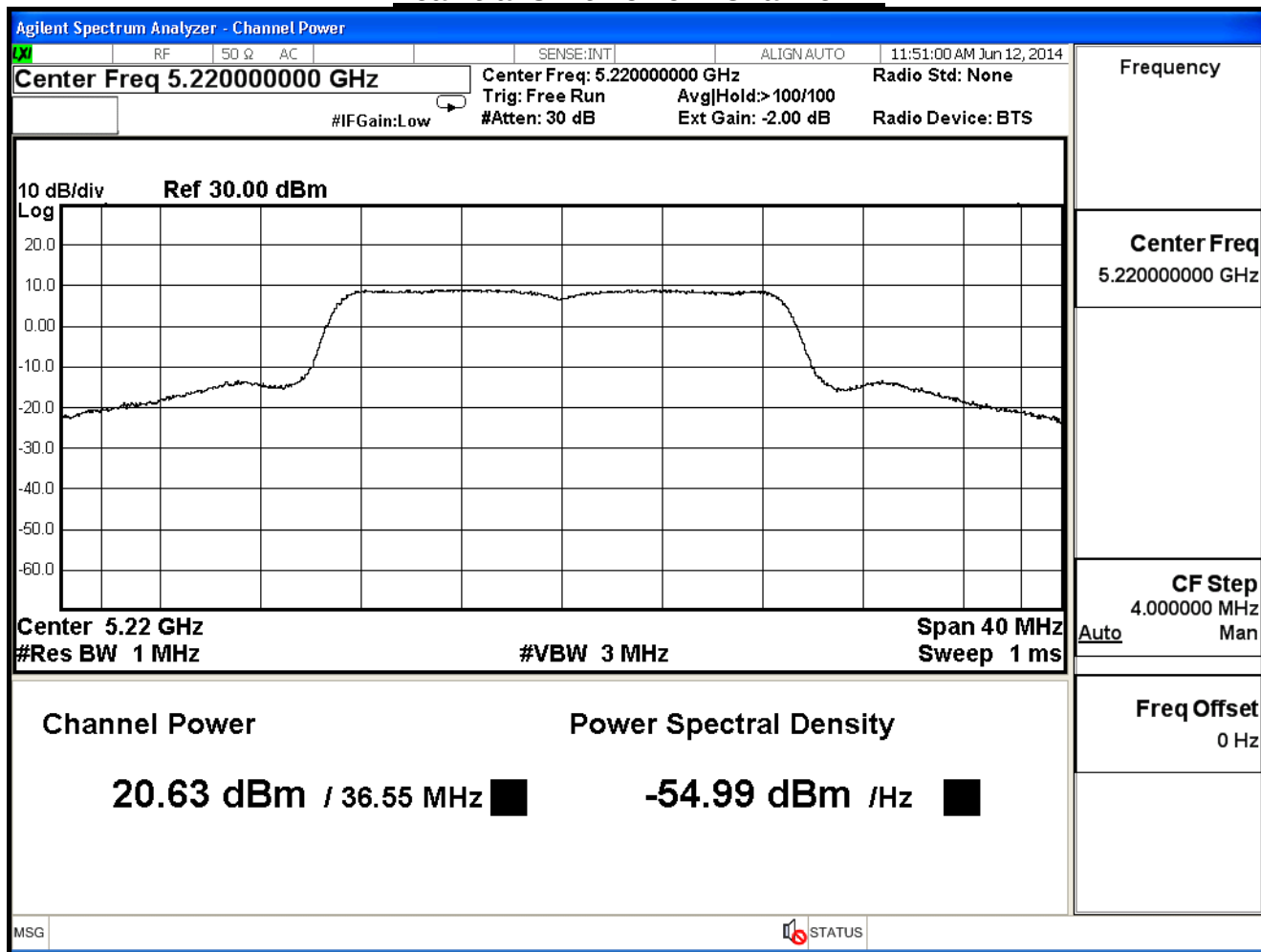
The worst emission of data rate is 6.5Mbps.

| Power Output (dBm) |                 |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |                 | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       |       |                      |
|                    |                 | 6.5       | 13    | 19.5  | 26    | 39    | 52    | 58.5  | 65    |                      |
| 36                 | 5180            | 16.63     | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220            | 20.63     | 20.43 | 20.23 | 20.03 | 19.93 | 19.81 | 19.69 | 19.57 |                      |
| 48                 | 5240            | 20.54     | --    | --    | --    | --    | --    | --    | --    |                      |

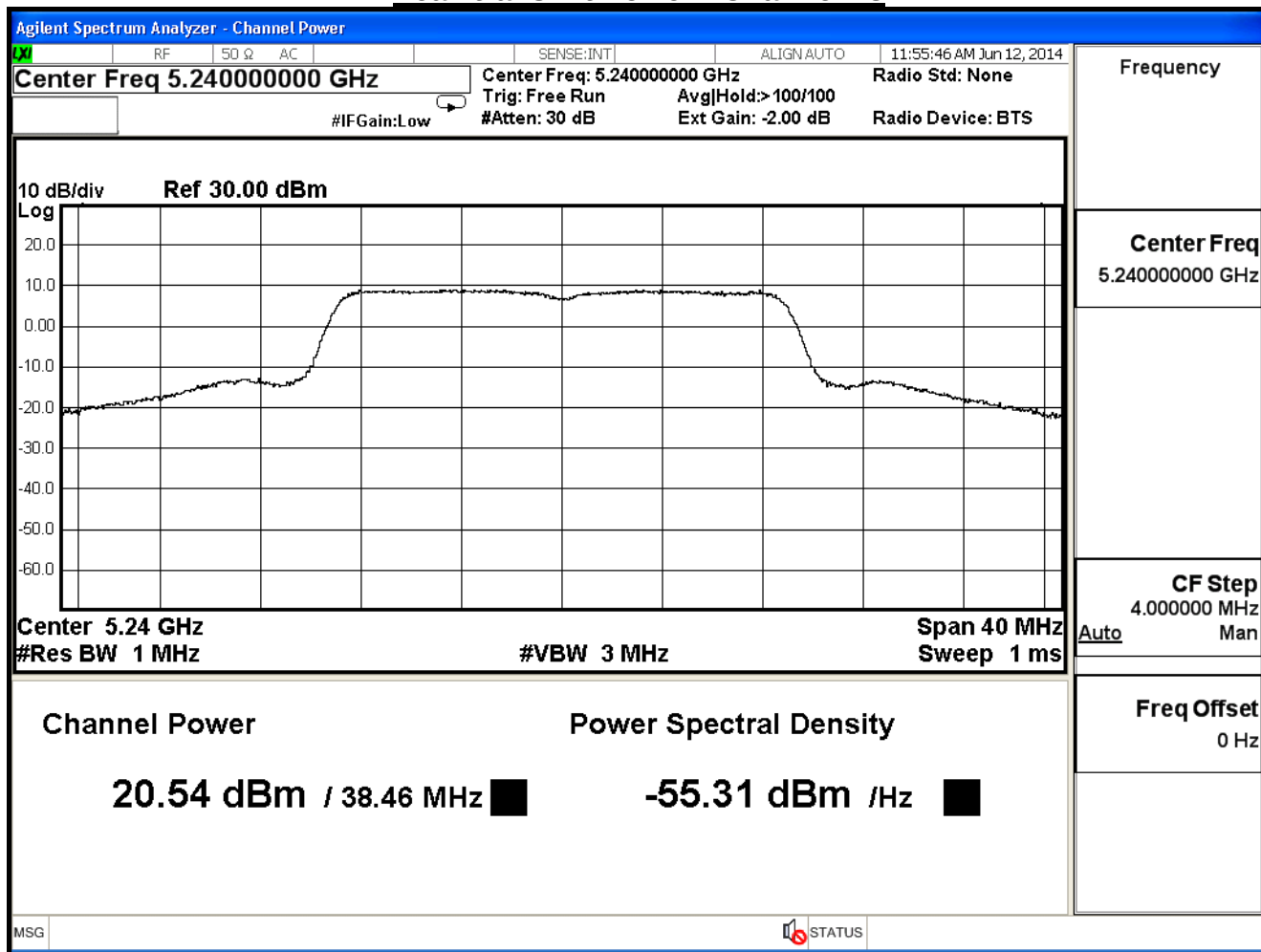
### Peak transmit Power - Channel 36



# Peak transmit Power - Channel 44



### Peak transmit Power - Channel 48



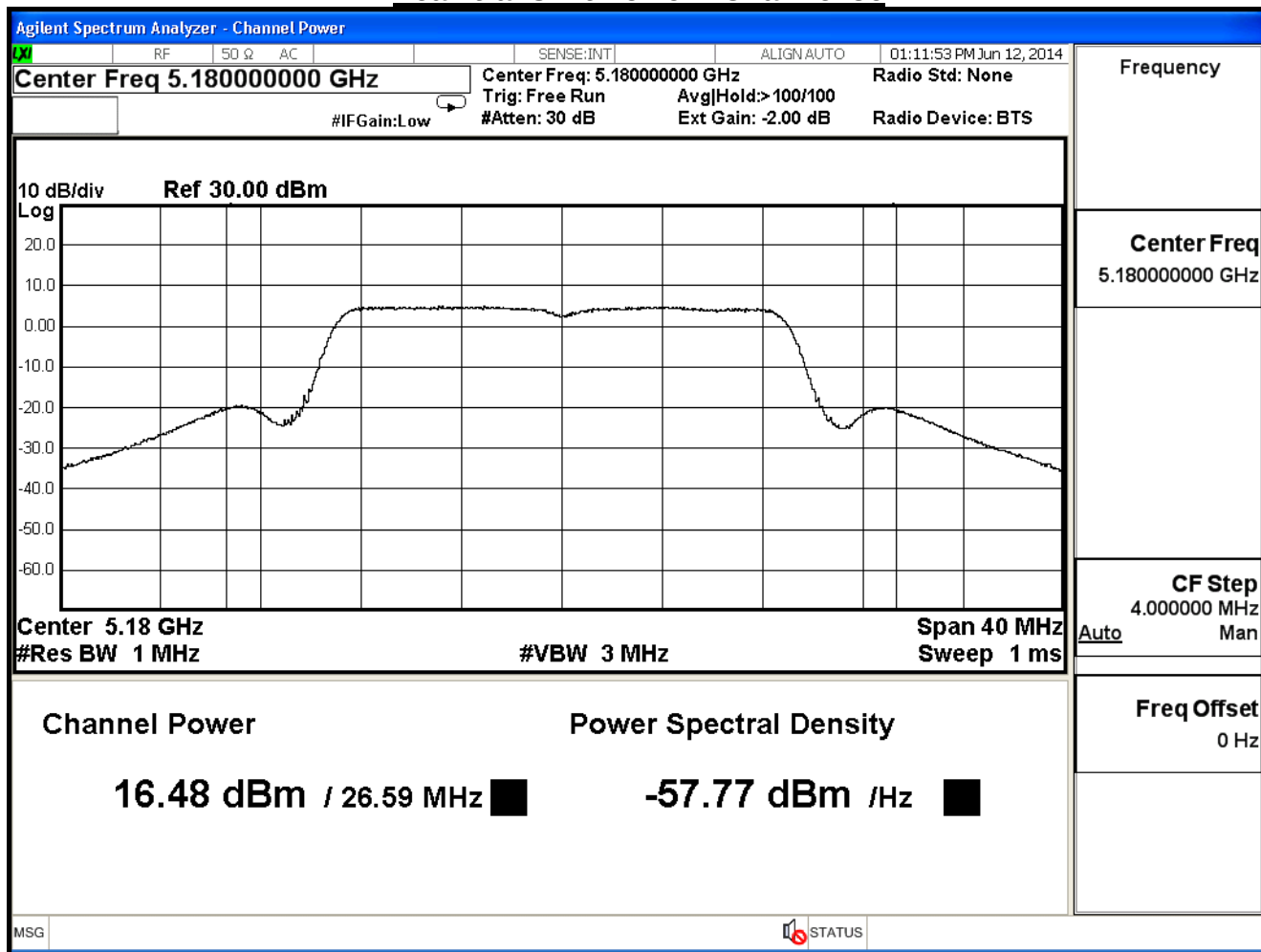
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(20MHz)(ANT 1) |                 |                      |                    |                   |                      |        |
|----------------------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.                | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                            |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 36                         | 5180            | 26.590               | 16.480             | ≤30               | 31.25                | Pass   |
| 44                         | 5220            | 31.990               | 20.330             | ≤30               | 32.05                | Pass   |
| 48                         | 5240            | 31.610               | 20.330             | ≤30               | 32.00                | Pass   |

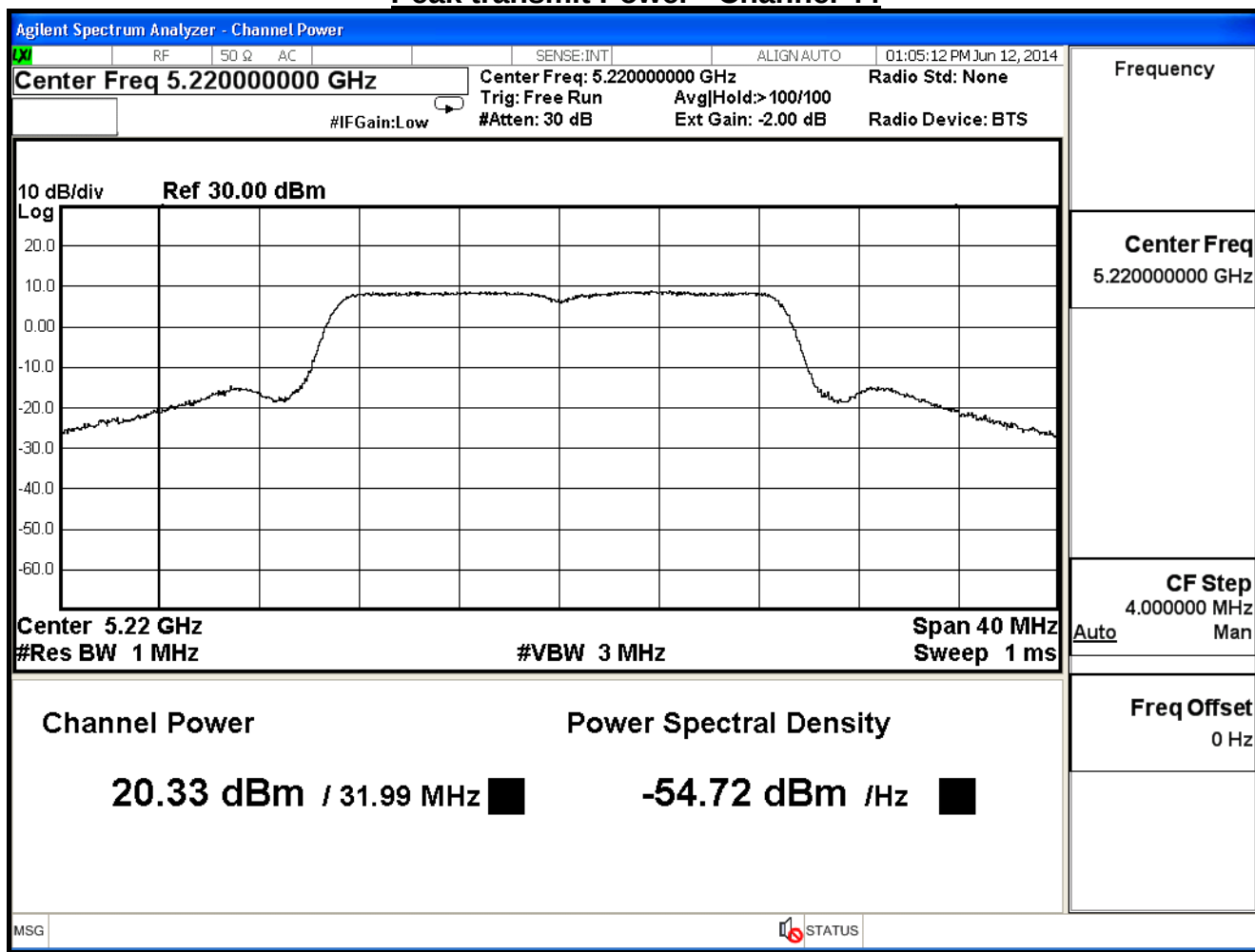
The worst emission of data rate is 6.5Mbps.

| Power Output (dBm) |           |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |           | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel            | Frequency | Data Rate |       |       |       |       |       |       |       |                      |
| No                 | (MHz)     | 6.5       | 13    | 19.5  | 26    | 39    | 52    | 58.5  | 65    |                      |
| 36                 | 5180      | 16.48     | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220      | 20.33     | 20.23 | 20.03 | 19.83 | 19.73 | 19.49 | 19.37 | 19.25 |                      |
| 48                 | 5240      | 20.33     | --    | --    | --    | --    | --    | --    | --    |                      |

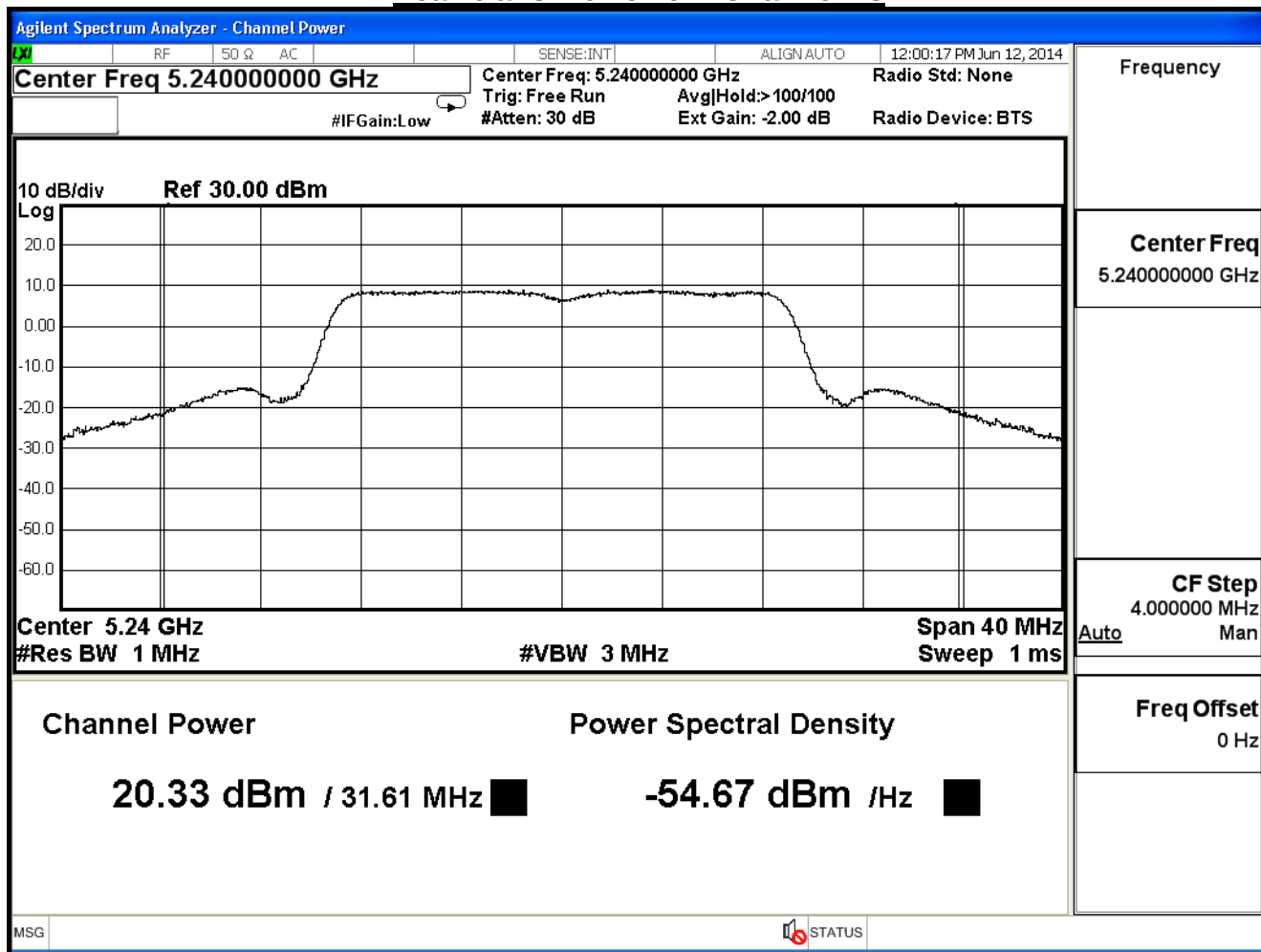
### Peak transmit Power - Channel 36



# Peak transmit Power - Channel 44



# Peak transmit Power - Channel 48



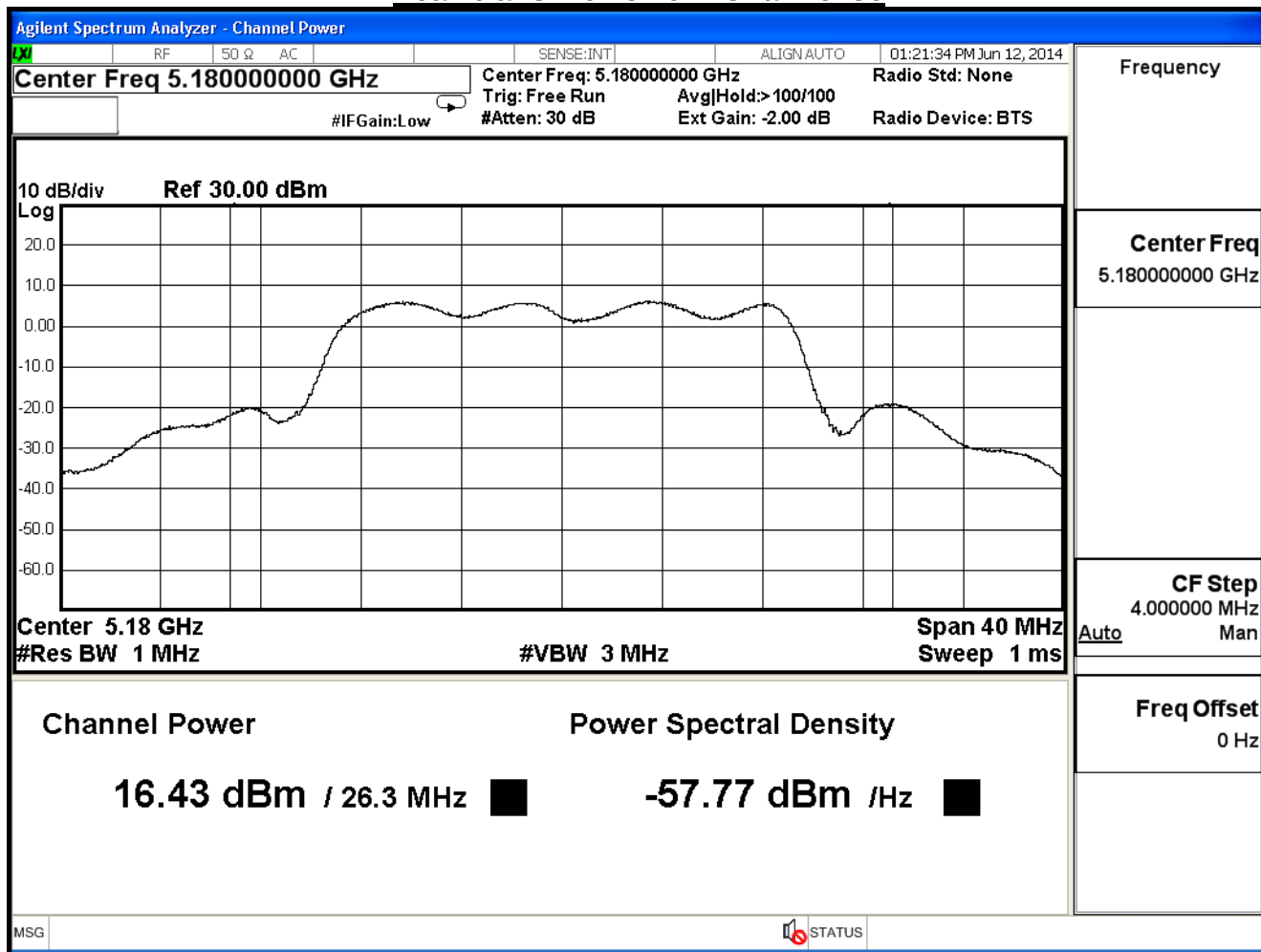
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(20MHz)(ANT 2) |                 |                      |                    |                   |                      |        |
|----------------------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.                | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                            |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 36                         | 5180            | 26.300               | 16.430             | ≤30               | 31.20                | Pass   |
| 44                         | 5220            | 27.190               | 20.070             | ≤30               | 31.34                | Pass   |
| 48                         | 5240            | 27.890               | 20.190             | ≤30               | 31.45                | Pass   |

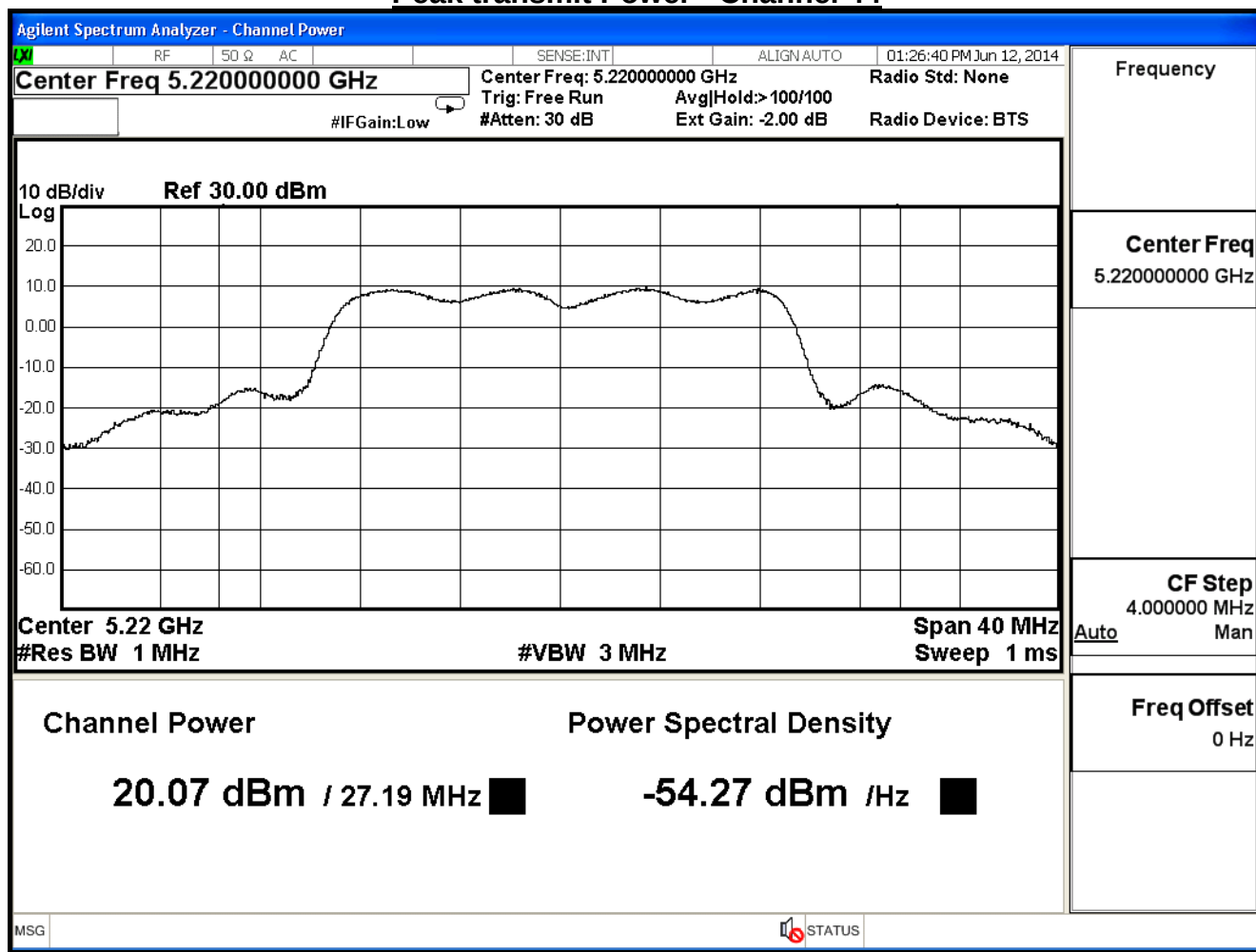
The worst emission of data rate is 6.5Mbps.

| Power Output (dBm) |                 |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |                 | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       |       |                      |
|                    |                 | 6.5       | 13    | 19.5  | 26    | 39    | 52    | 58.5  | 65    |                      |
| 36                 | 5180            | 16.43     | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220            | 20.07     | 19.97 | 19.87 | 19.77 | 19.67 | 19.55 | 19.43 | 19.19 |                      |
| 48                 | 5240            | 20.19     | --    | --    | --    | --    | --    | --    | --    |                      |

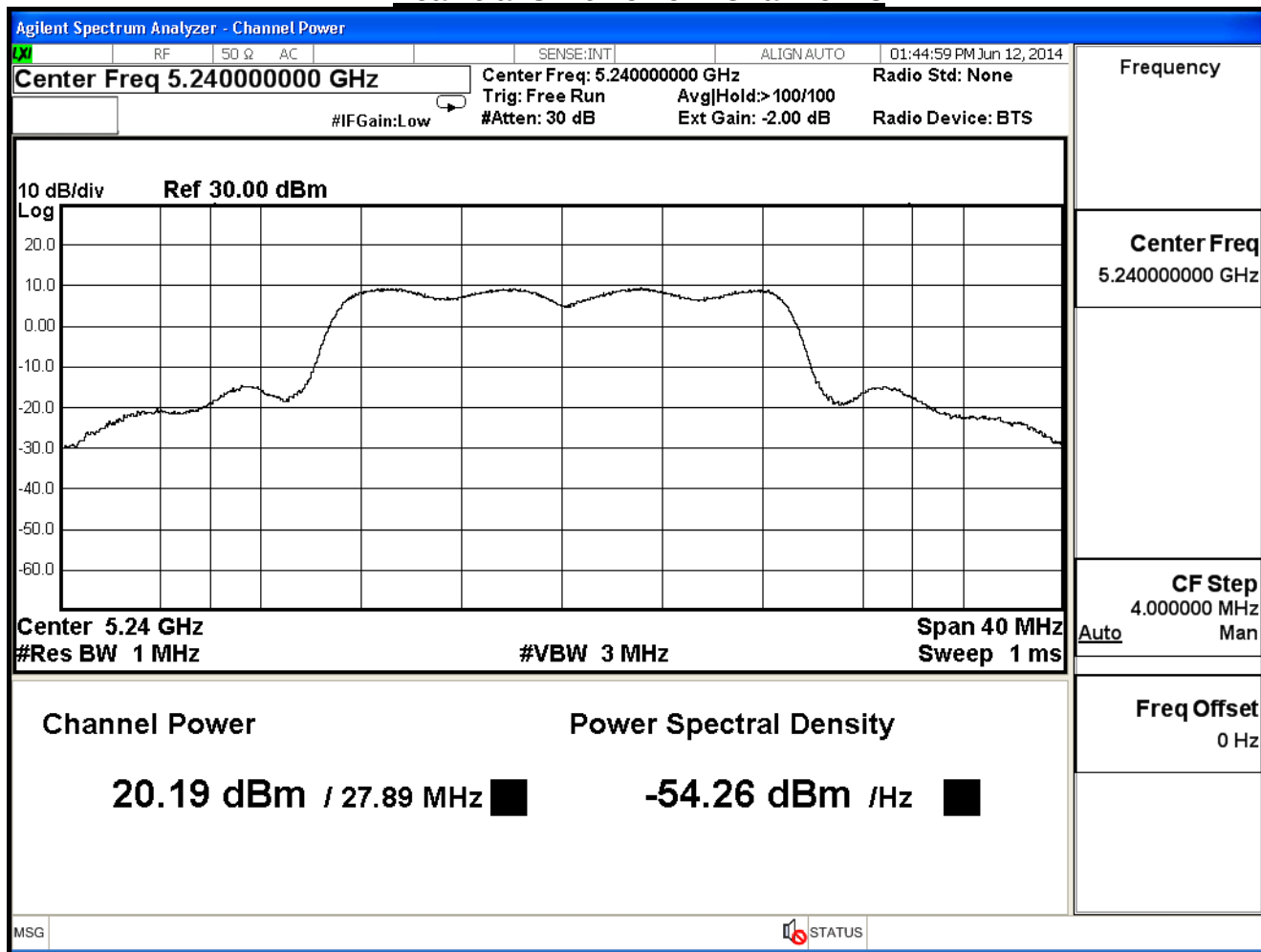
# Peak transmit Power - Channel 36



### Peak transmit Power - Channel 44



### Peak transmit Power - Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(20MHz)(ANT 0+1+2) |                 |                    |        |                      |        |
|--------------------------------|-----------------|--------------------|--------|----------------------|--------|
| Channel No.                    | Frequency (MHz) | Total Output Power |        | Required Limit (dBm) | Result |
|                                |                 | (mW)               | (dBm)  |                      |        |
| 36                             | 5180            | 134.431            | 21.285 | ≤30                  | Pass   |
| 44                             | 5220            | 325.131            | 25.121 | ≤30                  | Pass   |
| 48                             | 5240            | 325.607            | 25.127 | ≤30                  | Pass   |

The worst emission of data rate is 6.5Mbps.

| Power Output (dBm) |           |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |           | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel            | Frequency | Data Rate |       |       |       |       |       |       |       |                      |
| No                 | (MHz)     | 6.5       | 13    | 19.5  | 26    | 39    | 52    | 58.5  | 65    |                      |
| 36                 | 5180      | 21.29     | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 44                 | 5220      | 25.12     | 24.99 | 24.82 | 24.65 | 24.55 | 24.39 | 24.27 | 24.11 |                      |
| 48                 | 5240      | 25.13     | --    | --    | --    | --    | --    | --    | --    |                      |

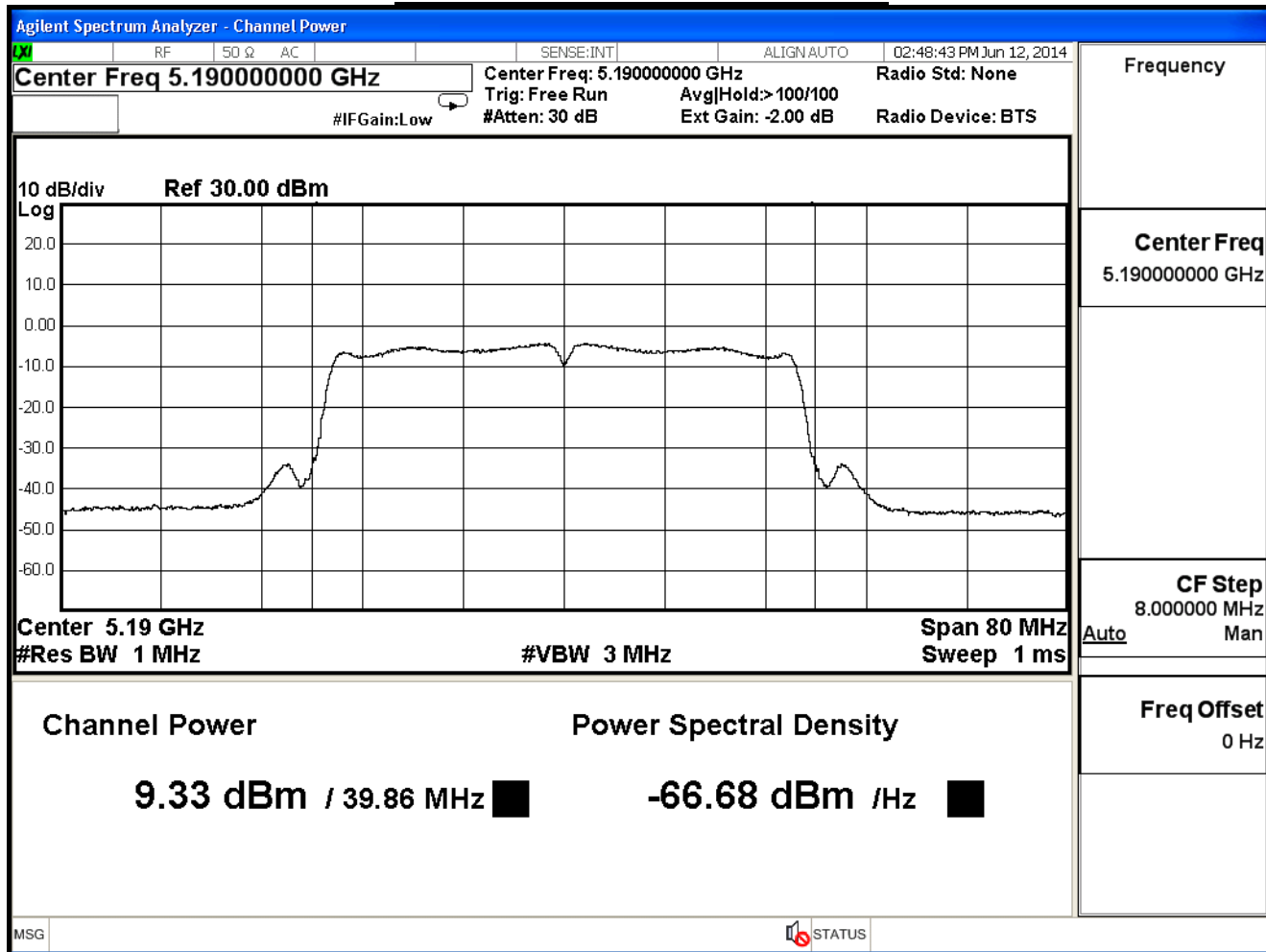
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(40MHz)(ANT 0) |                 |                      |                    |                   |                      |        |
|----------------------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.                | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                            |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 38                         | 5190            | 39.860               | 9.330              | ≤30               | 33.01                | Pass   |
| 46                         | 5230            | 62.770               | 19.620             | ≤30               | 34.98                | Pass   |

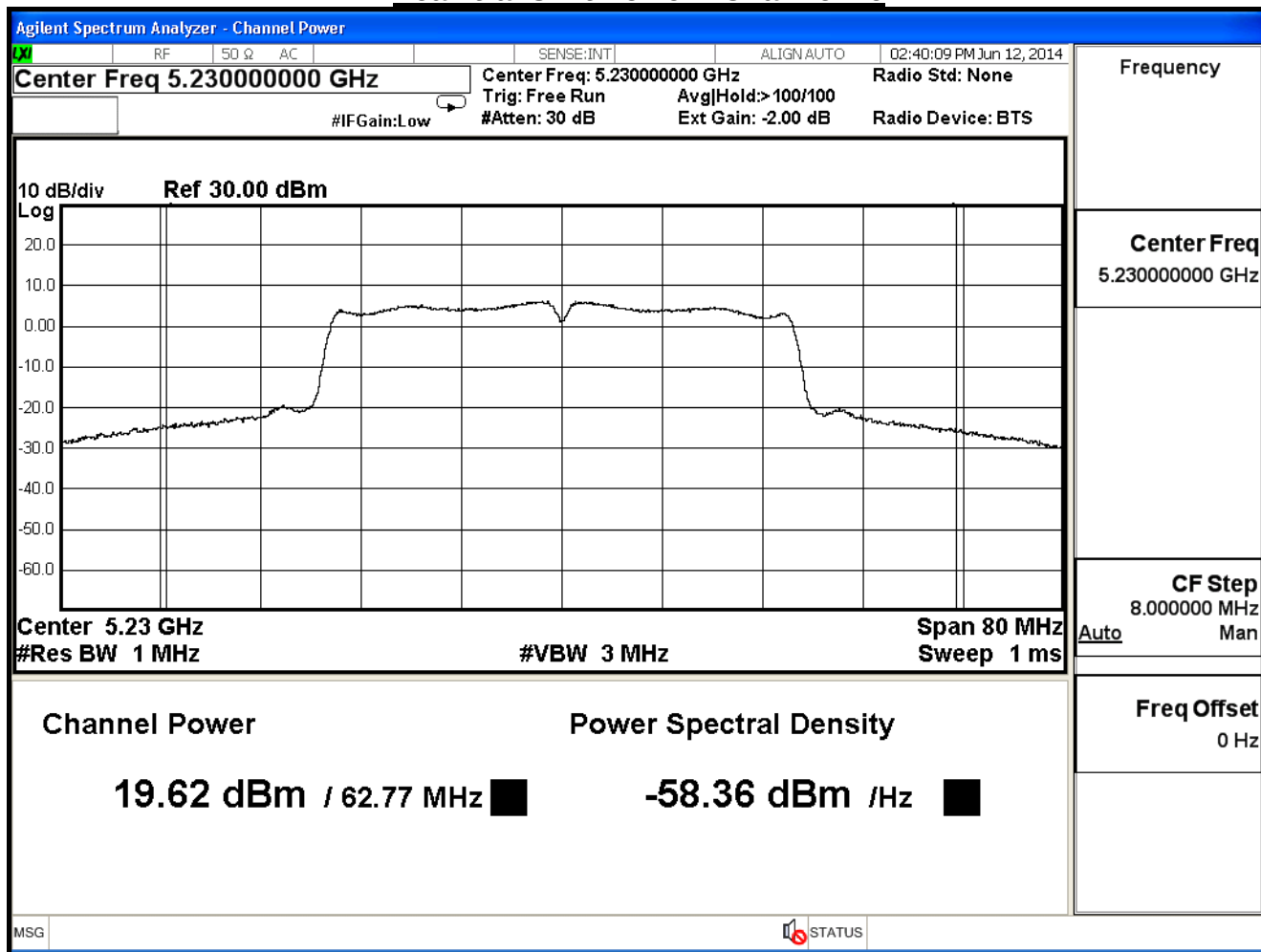
The worst emission of data rate is 13.5 Mbps

| Power Output (dBm) |                 |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |                 | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       |       |                      |
|                    |                 | 13.5      | 27    | 40.5  | 54    | 81    | 108   | 121.5 | 135   |                      |
| 38                 | 5190            | 9.33      | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 46                 | 5230            | 19.62     | 19.42 | 19.22 | 19.12 | 19.02 | 18.90 | 18.78 | 18.66 |                      |

# Peak transmit Power - Channel 38



## Peak transmit Power - Channel 46



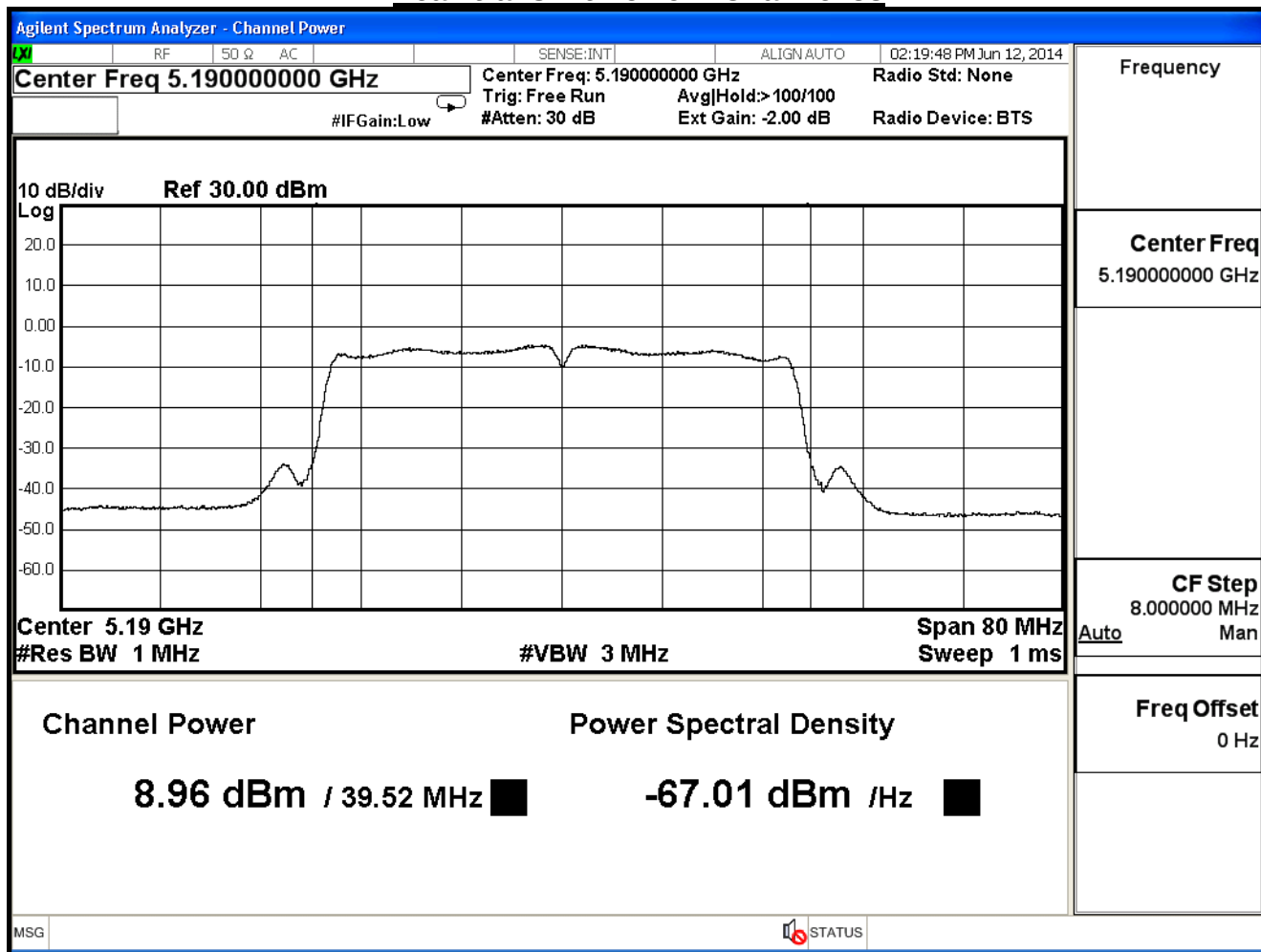
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(40MHz) (ANT 1) |                 |                      |                    |                   |                      |        |
|-----------------------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.                 | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                             |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 38                          | 5190            | 39.520               | 8.960              | ≤30               | 32.97                | Pass   |
| 46                          | 5230            | 44.910               | 19.320             | ≤30               | 33.52                | Pass   |

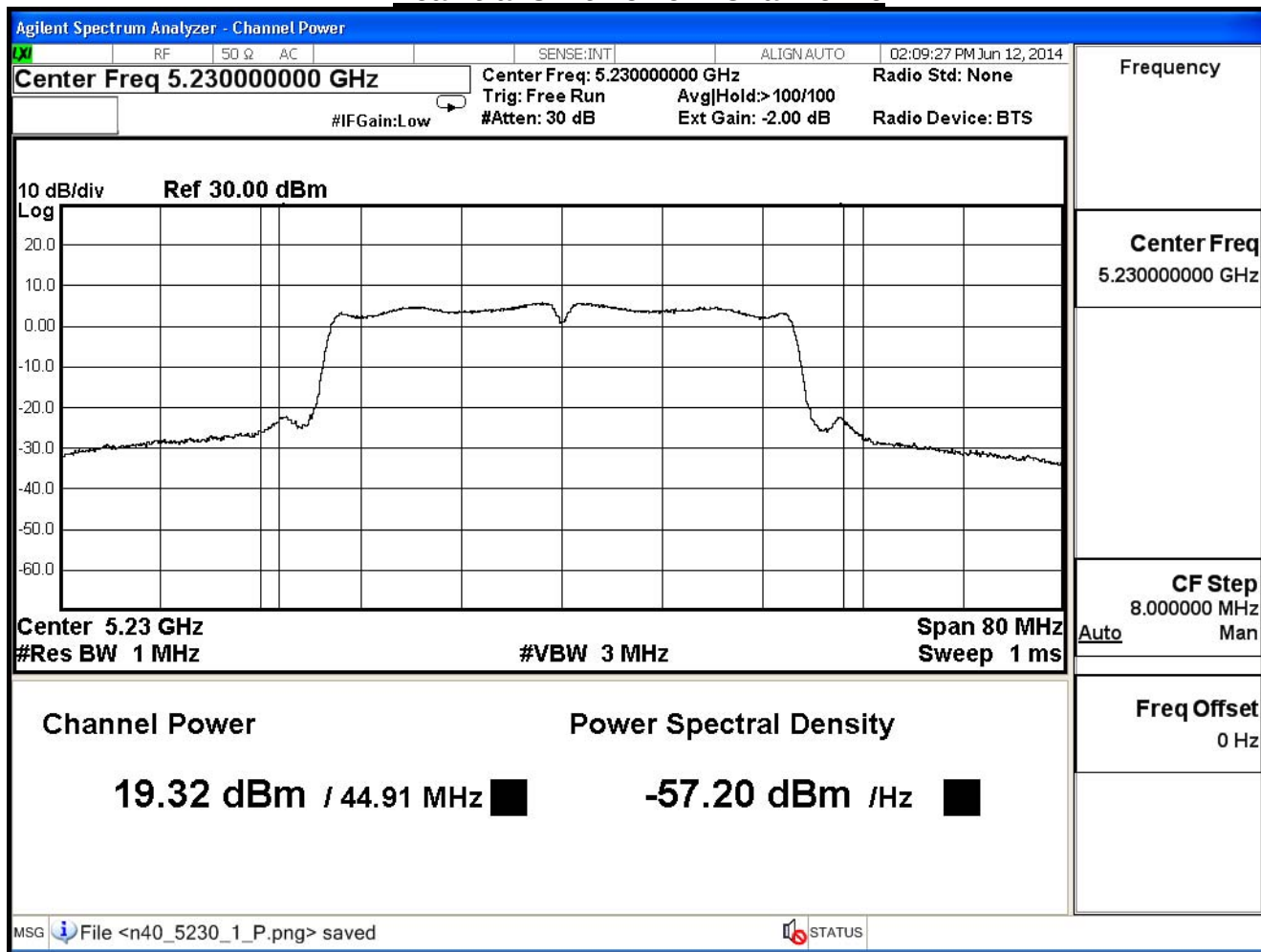
The worst emission of data rate is 13.5 Mbps

| Power Output (dBm) |                 |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |                 | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       |       |                      |
|                    |                 | 13.5      | 27    | 40.5  | 54    | 81    | 108   | 121.5 | 135   |                      |
| 38                 | 5190            | 8.96      | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 46                 | 5230            | 19.32     | 19.12 | 18.92 | 18.72 | 18.52 | 18.40 | 18.28 | 18.16 |                      |

### Peak transmit Power - Channel 38



# Peak transmit Power - Channel 46



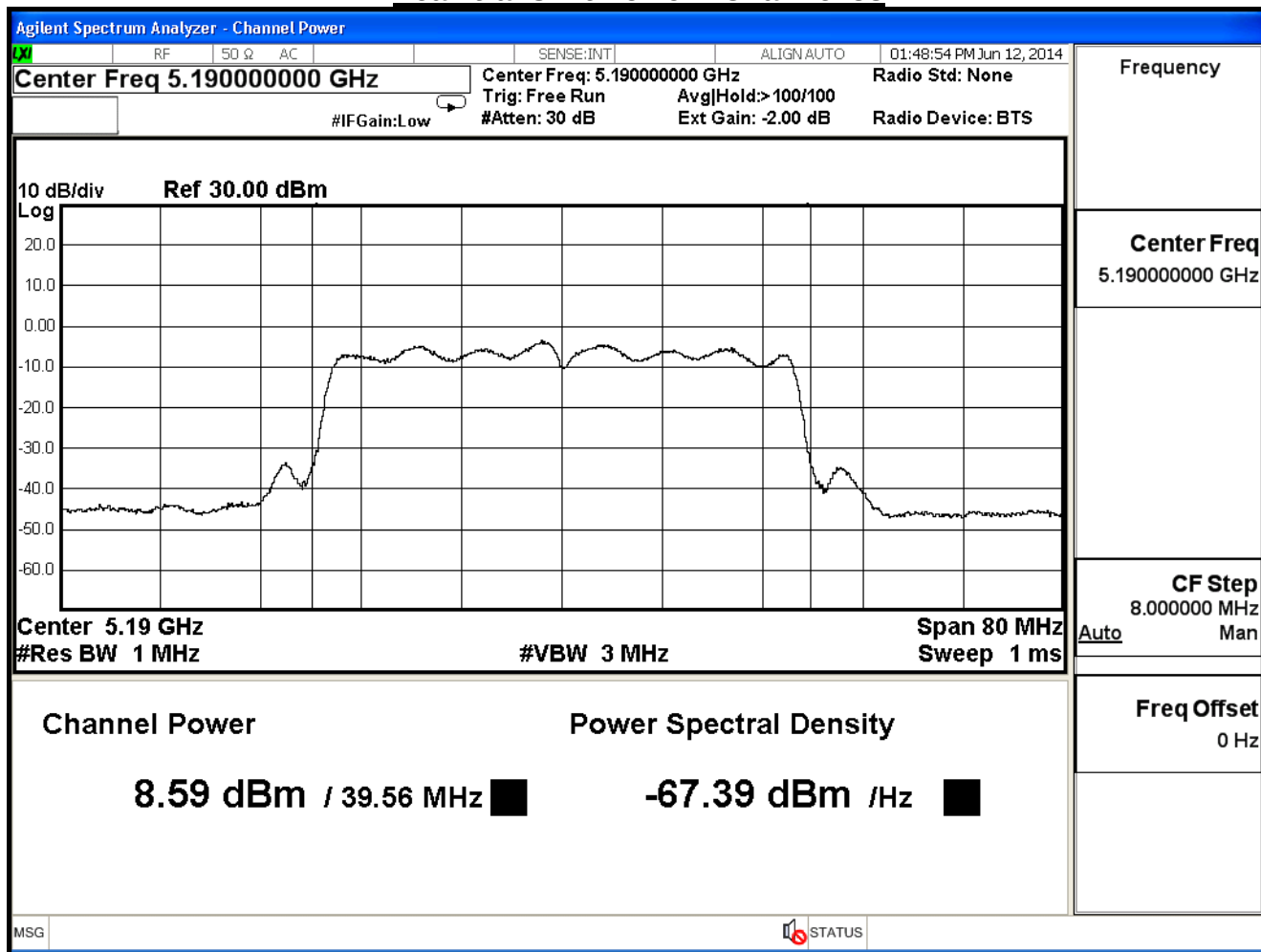
|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(40MHz) (ANT 2) |                 |                      |                    |                   |                      |        |
|-----------------------------|-----------------|----------------------|--------------------|-------------------|----------------------|--------|
| Channel No.                 | Frequency (MHz) | 26dB Bandwidth (MHz) | Output Power (dBm) | Required Limit    |                      | Result |
|                             |                 |                      |                    | Fixed Limit (dBm) | 4+10logB Limit (dBm) |        |
| 38                          | 5190            | 39.560               | 8.590              | ≤30               | 32.97                | Pass   |
| 46                          | 5230            | 42.380               | 19.040             | ≤30               | 33.27                | Pass   |

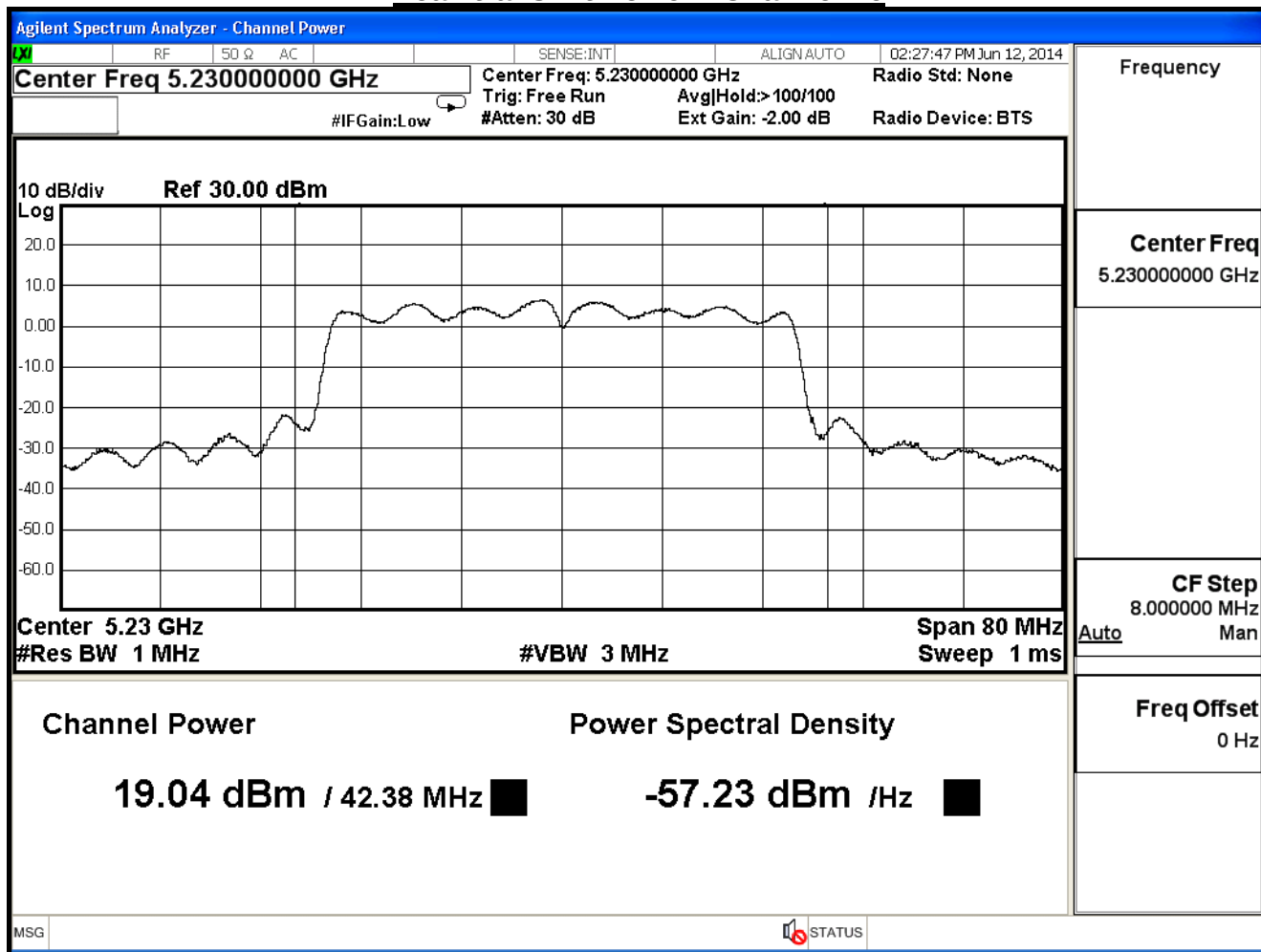
The worst emission of data rate is 13.5 Mbps

| Power Output (dBm) |                 |           |       |       |       |       |       |       |       |                       |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-----------------------|
| MCS Index          |                 | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit        |
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       |       |                       |
|                    |                 | 13.5      | 27    | 40.5  | 54    | 81    | 108   | 121.5 | 135   |                       |
| 38                 | 5190            | 8.59      | --    | --    | --    | --    | --    | --    | --    | 30dBm or 17dBm+10logB |
| 46                 | 5230            | 19.04     | 18.94 | 18.84 | 18.74 | 18.64 | 18.40 | 18.28 | 18.04 |                       |

## Peak transmit Power - Channel 38



### Peak transmit Power - Channel 46



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Transmit Output                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n(40MHz) (ANT 0+1+2) |                 |                    |        |                      |        |
|---------------------------------|-----------------|--------------------|--------|----------------------|--------|
| Channel No.                     | Frequency (MHz) | Total Output Power |        | Required Limit (dBm) | Result |
|                                 |                 | (mW)               | (dBm)  |                      |        |
| 38                              | 5190            | 23.670             | 13.742 | ≤30                  | Pass   |
| 46                              | 5230            | 257.276            | 24.104 | ≤30                  | Pass   |

The worst emission of data rate is 13.5 Mbps

| Power Output (dBm) |                 |           |       |       |       |       |       |       |       |                      |
|--------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| MCS Index          |                 | 0         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | Required Limit       |
| Channel No         | Frequency (MHz) | Data Rate |       |       |       |       |       |       |       |                      |
|                    |                 | 13.5      | 27    | 40.5  | 54    | 81    | 108   | 121.5 | 135   |                      |
| 38                 | 5190            | 13.74     | --    | --    | --    | --    | --    | --    | --    | 30dBm or 4dBm+10logB |
| 46                 | 5230            | 24.10     | 23.94 | 23.77 | 23.64 | 23.50 | 23.34 | 23.22 | 23.07 |                      |

## 5. Peak Power Spectrum Density

### 5.1. Test Equipment

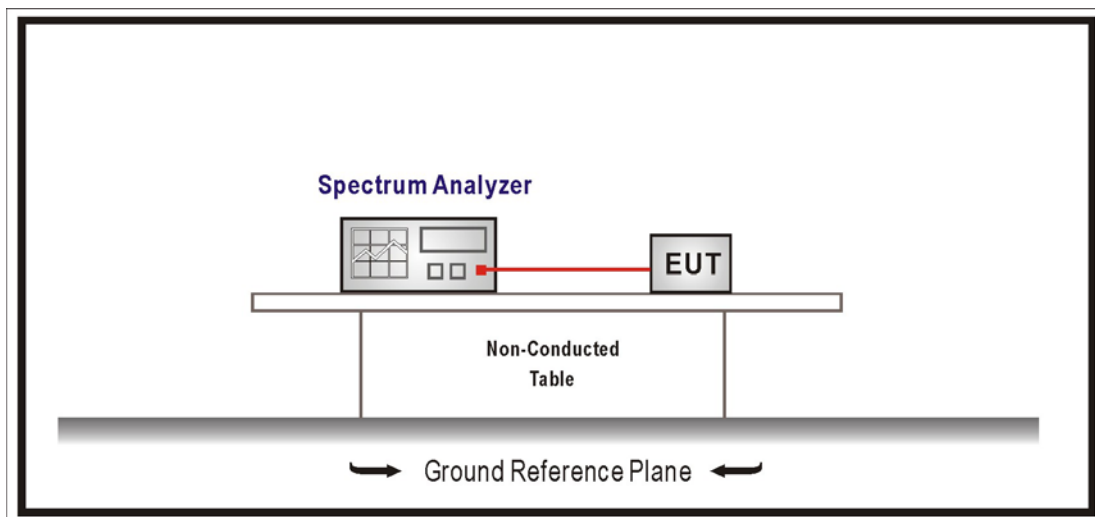
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

| Instrument        | Manufacturer | Model No.  | Serial No  | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent      | N9010A-EXA | US47140172 | 2014/08/05     |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 5.2. Test Setup



### 5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

#### 5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

#### 5.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1.27$  dB

## 5.6. Test Result

|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

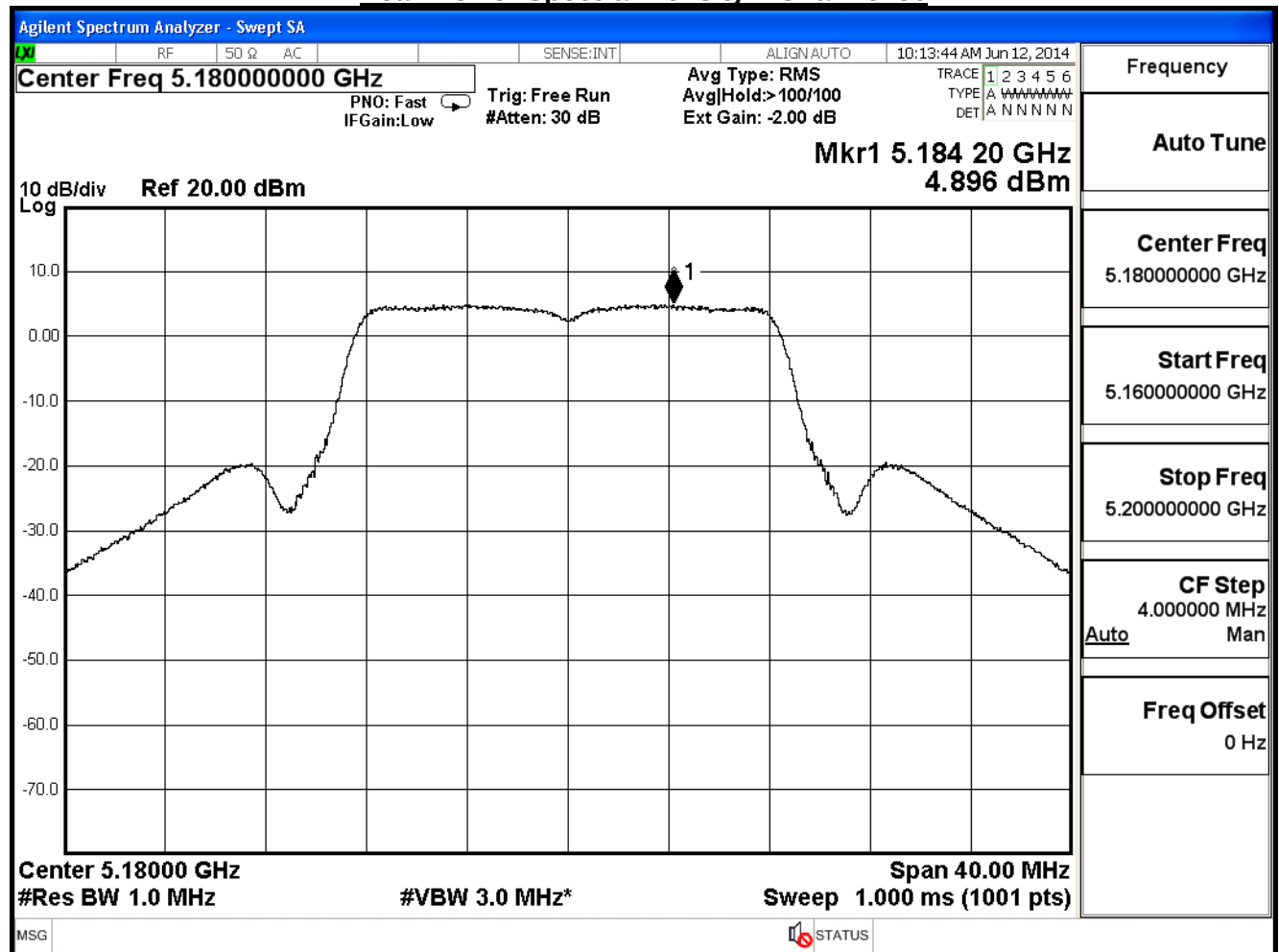
| IEEE 802.11a (ANT 0) |                 |                     |                      |        |
|----------------------|-----------------|---------------------|----------------------|--------|
| Channel No.          | Frequency (MHz) | Measure Level (dBm) | Required Limit (dBm) | Result |
| 36                   | 5180            | 4.896               | $\leq 16.23$         | Pass   |
| 44                   | 5220            | 9.524               | $\leq 16.23$         | Pass   |
| 48                   | 5240            | 9.595               | $\leq 16.23$         | Pass   |

Note :

Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

### Peak Power Spectral Density – Channel 36



Agilent Spectrum Analyzer - Swept SA

Center Freq 5.22000000 GHz

PNO: Fast  
IFGain: Low

Trig: Free Run  
#Atten: 30 dB

Avg Type: RMS  
Avg|Hold: >100/100  
Ext Gain: -2.00 dB

10 dB/div  
Log

Ref 20.00 dBm

Mkr1 5.223 32 GHz  
9.524 dBm

Frequency

Auto Tune

Center Freq  
5.220000000 GHz

Start Freq  
5.200000000 GHz

Stop Freq  
5.240000000 GHz

CF Step  
4.000000 MHz  
Auto Man

Freq Offset  
0 Hz

Center 5.22000 GHz  
#Res BW 1.0 MHz

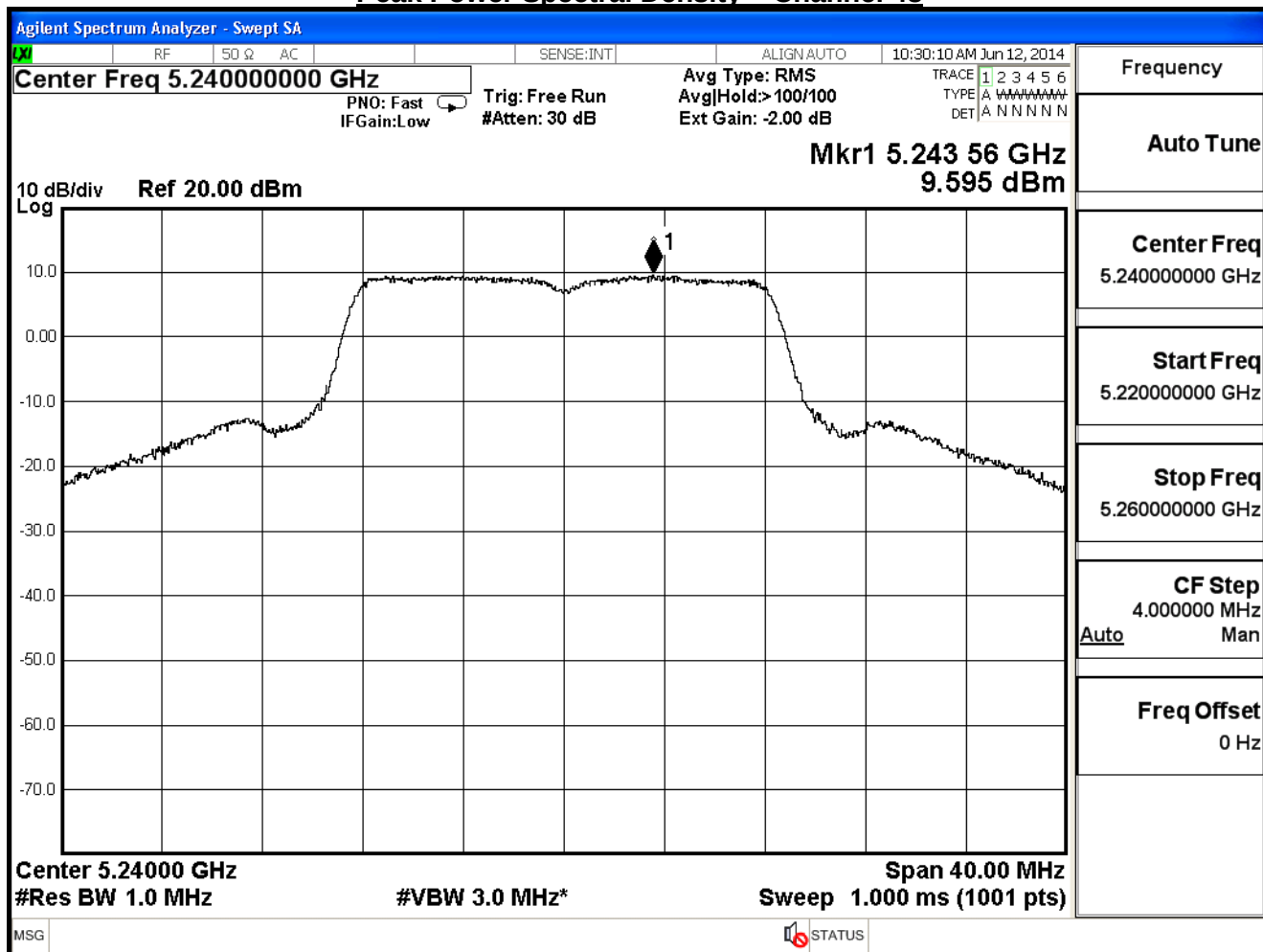
#VBW 3.0 MHz\*

Span 40.00 MHz  
Sweep 1.000 ms (1001 pts)

MSG

STATUS

### Peak Power Spectral Density – Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

## IEEE 802.11a (ANT 1)

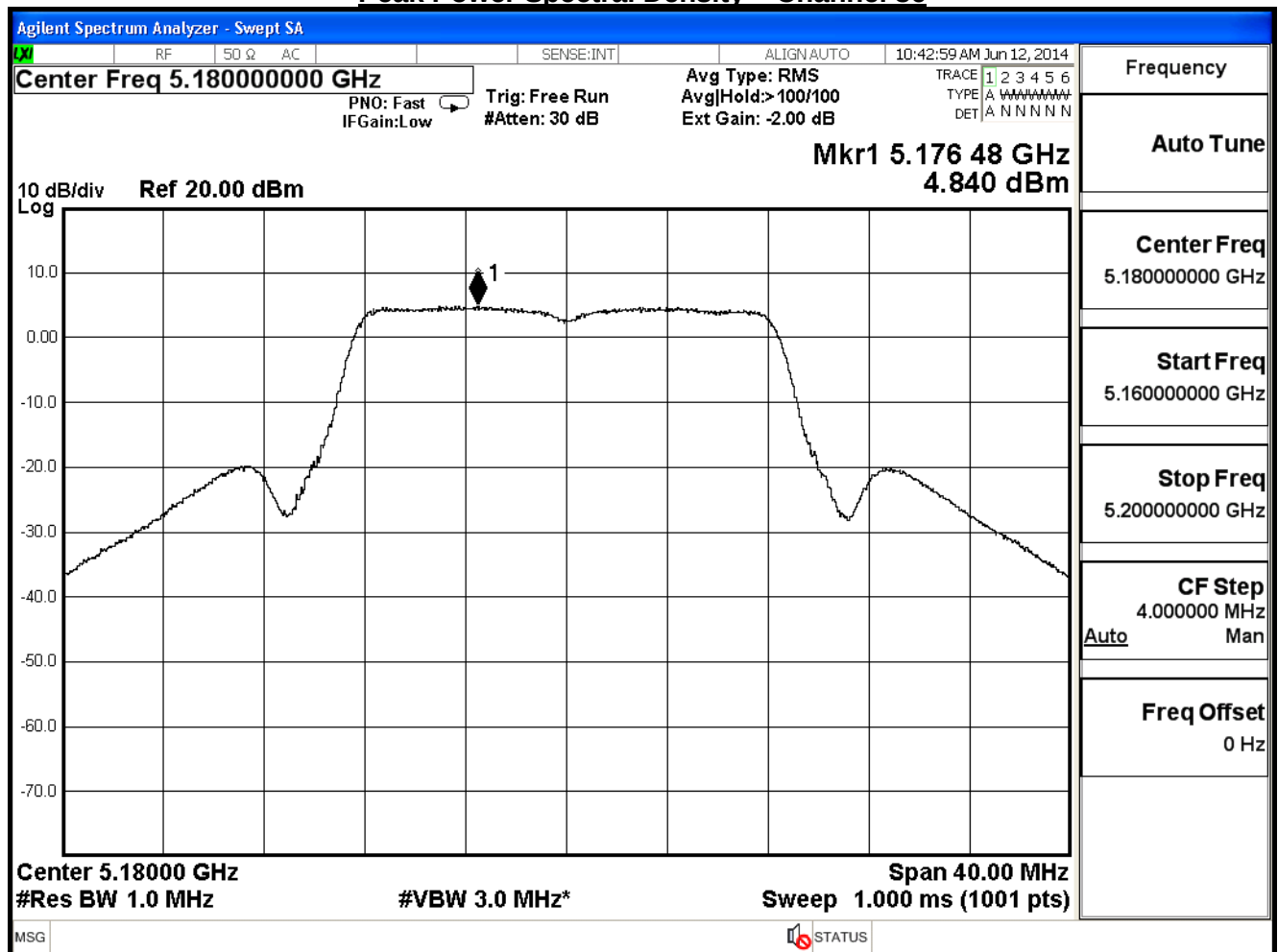
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|---------------------|----------------------|--------|
| 36          | 5180            | 4.840               | $\leq 16.23$         | Pass   |
| 44          | 5220            | 9.276               | $\leq 16.23$         | Pass   |
| 48          | 5240            | 9.377               | $\leq 16.23$         | Pass   |

Note :

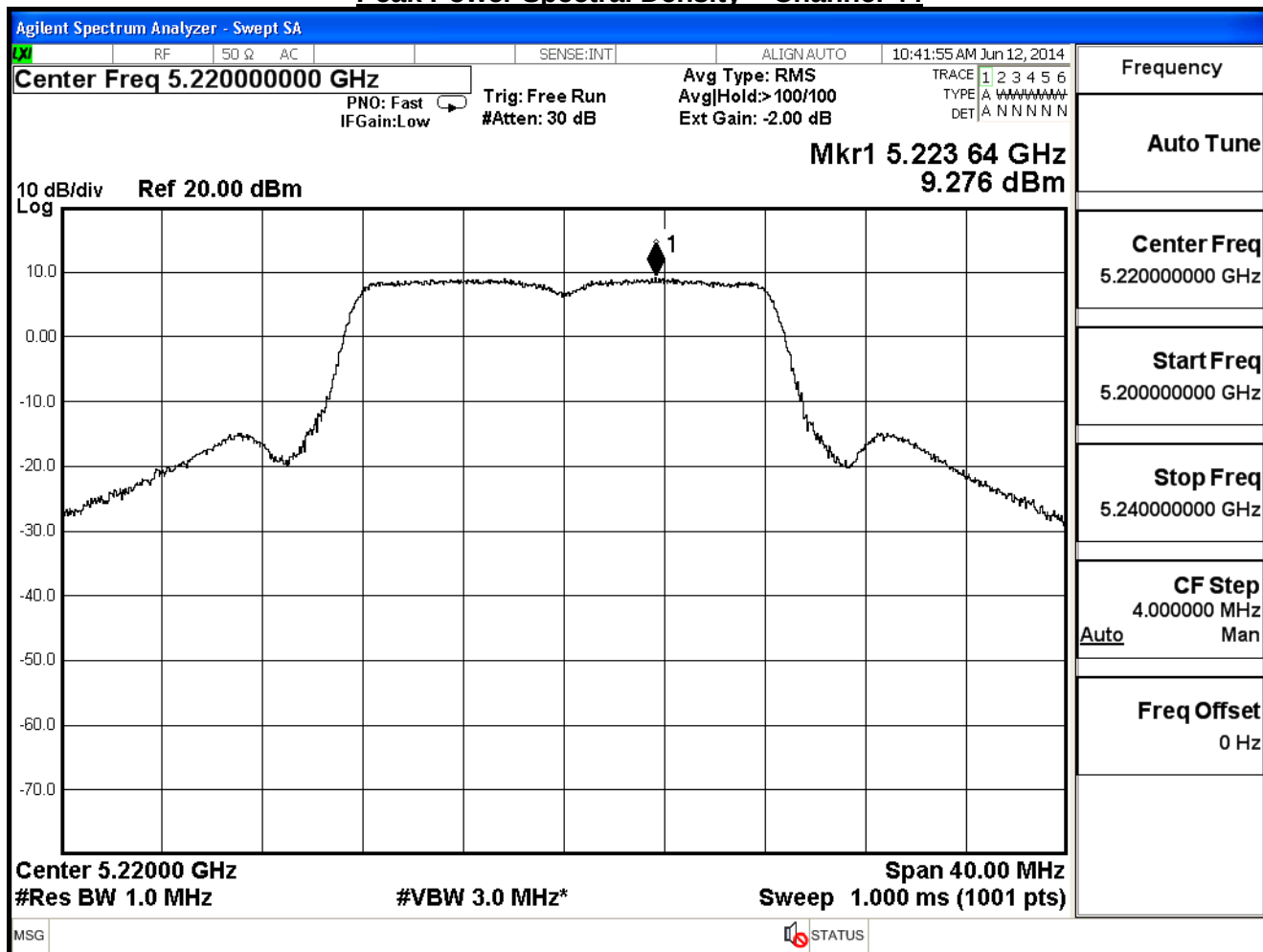
Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

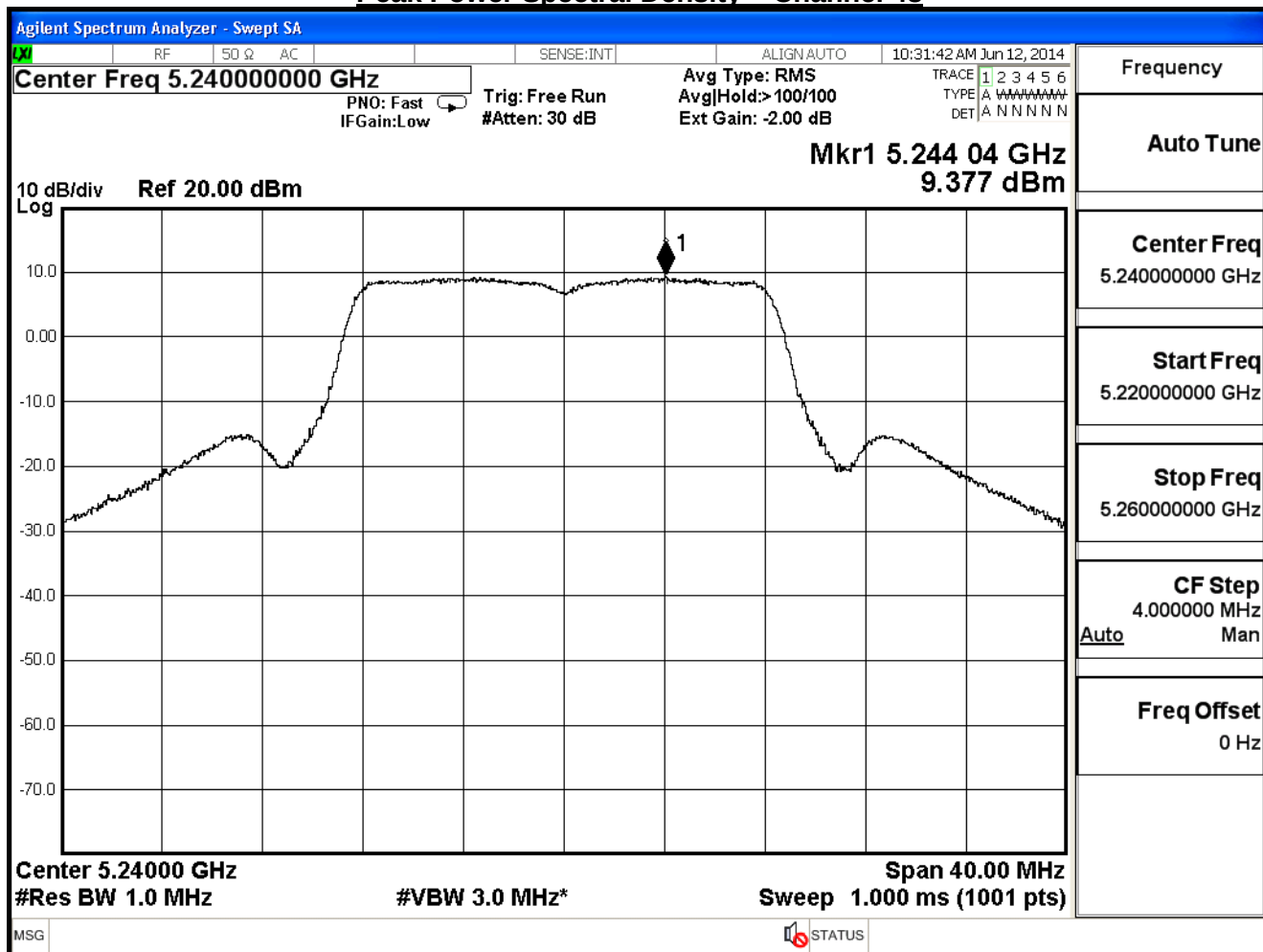
### Peak Power Spectral Density – Channel 36



# Peak Power Spectral Density – Channel 44



### Peak Power Spectral Density – Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode) Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

## IEEE 802.11a (ANT 2)

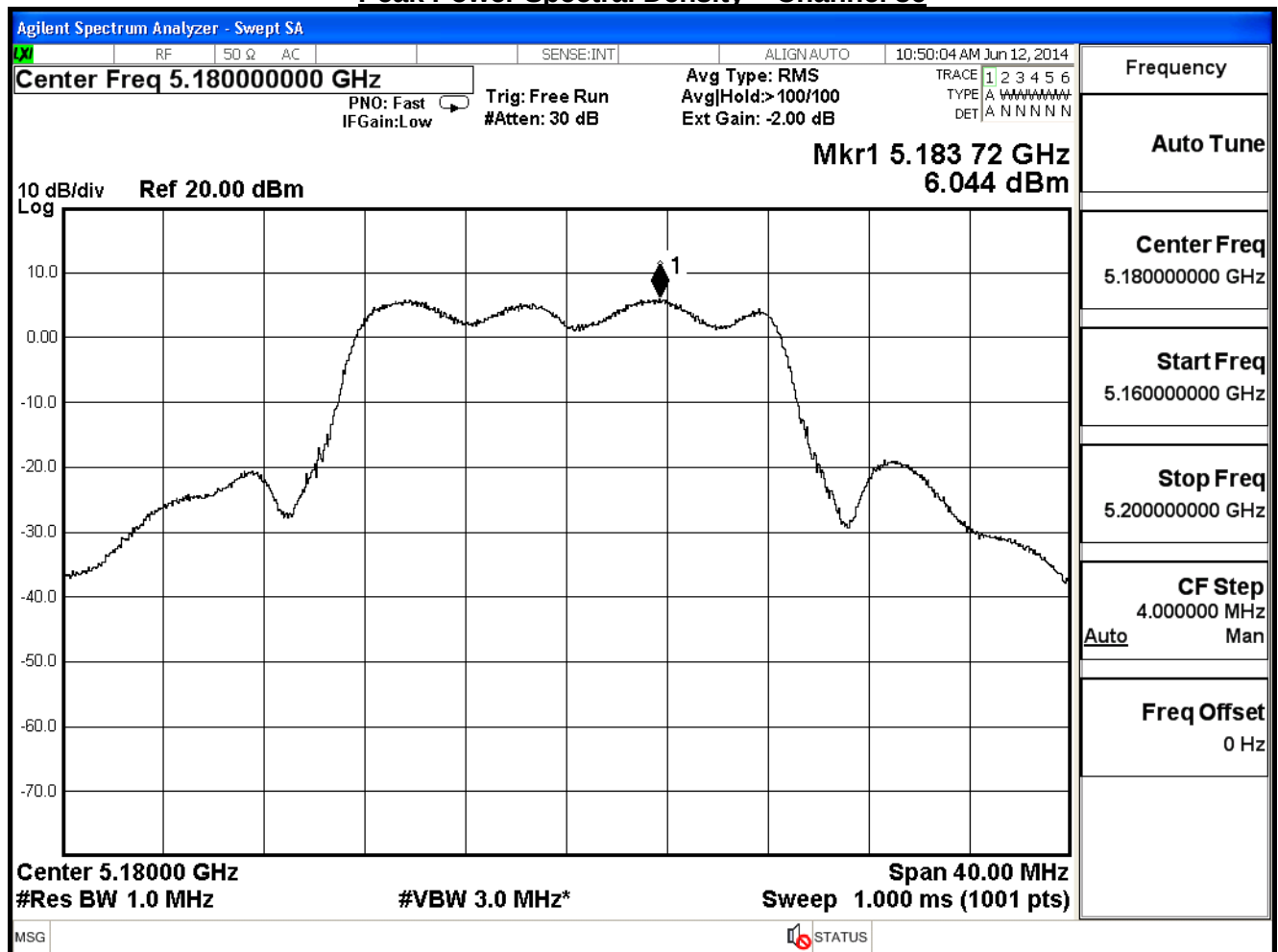
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|---------------------|----------------------|--------|
| 36          | 5180            | 6.044               | $\leq 16.23$         | Pass   |
| 44          | 5220            | 10.038              | $\leq 16.23$         | Pass   |
| 48          | 5240            | 9.521               | $\leq 16.23$         | Pass   |

Note :

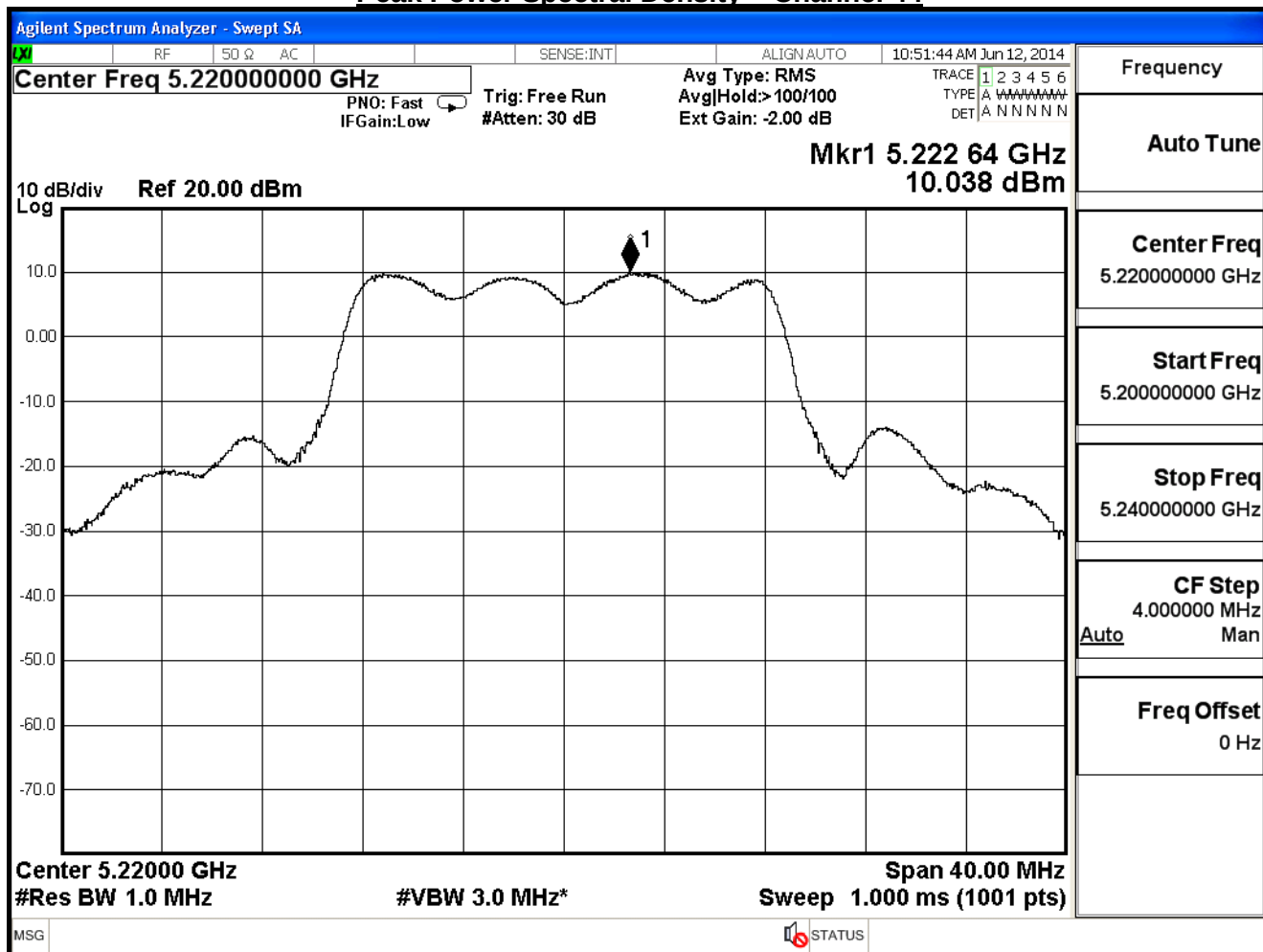
Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

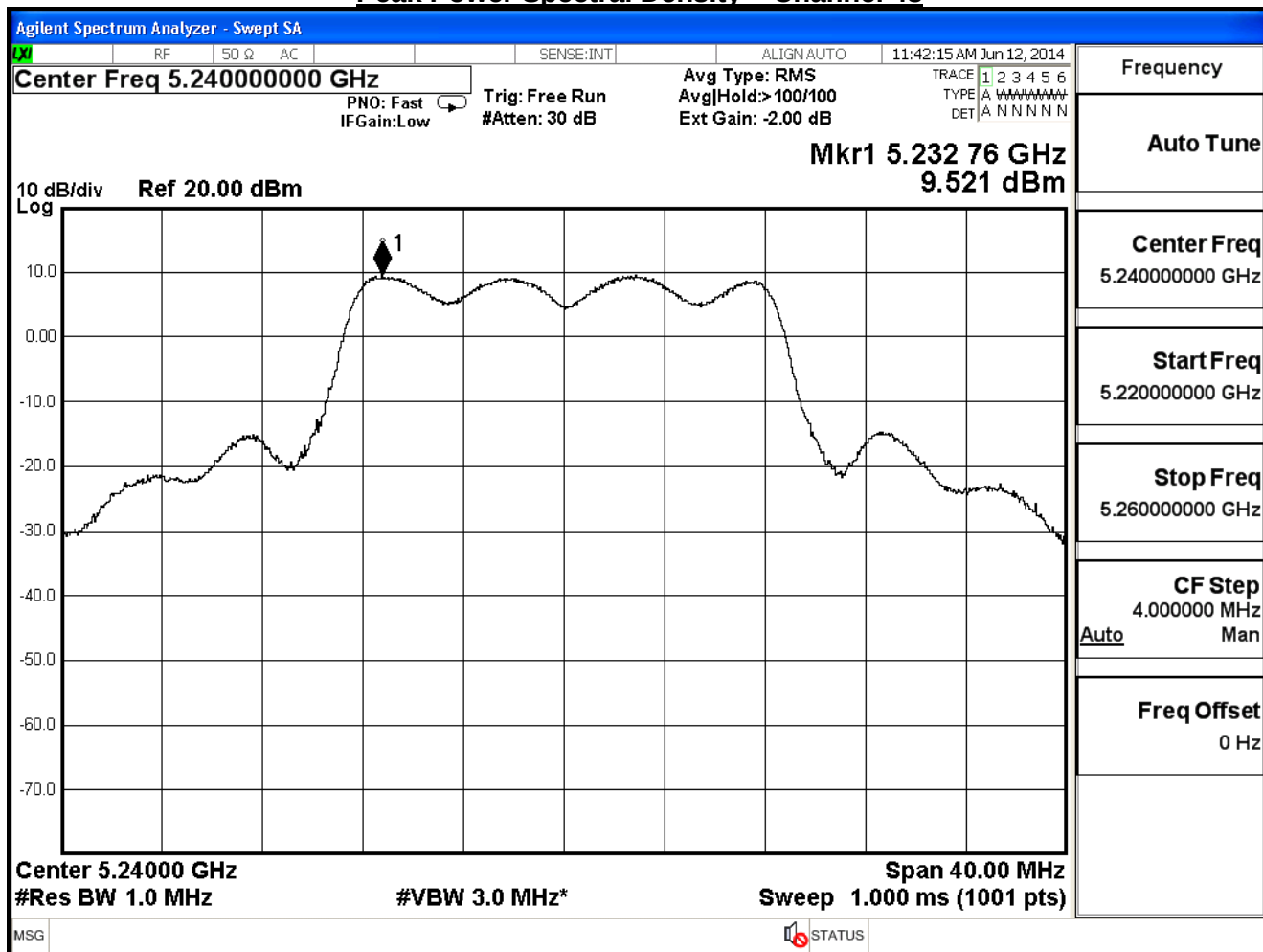
### Peak Power Spectral Density – Channel 36



### Peak Power Spectral Density – Channel 44



### Peak Power Spectral Density – Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11a (ANT 0+1+2) |                    |                        |                         |        |
|--------------------------|--------------------|------------------------|-------------------------|--------|
| Channel No.              | Frequency<br>(MHz) | Measure Level<br>(dBm) | Required Limit<br>(dBm) | Result |
| 36                       | 5180               | 10.068                 | $\leq 16.23$            | Pass   |
| 44                       | 5220               | 14.396                 | $\leq 16.23$            | Pass   |
| 48                       | 5240               | 14.270                 | $\leq 16.23$            | Pass   |

Note :

Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

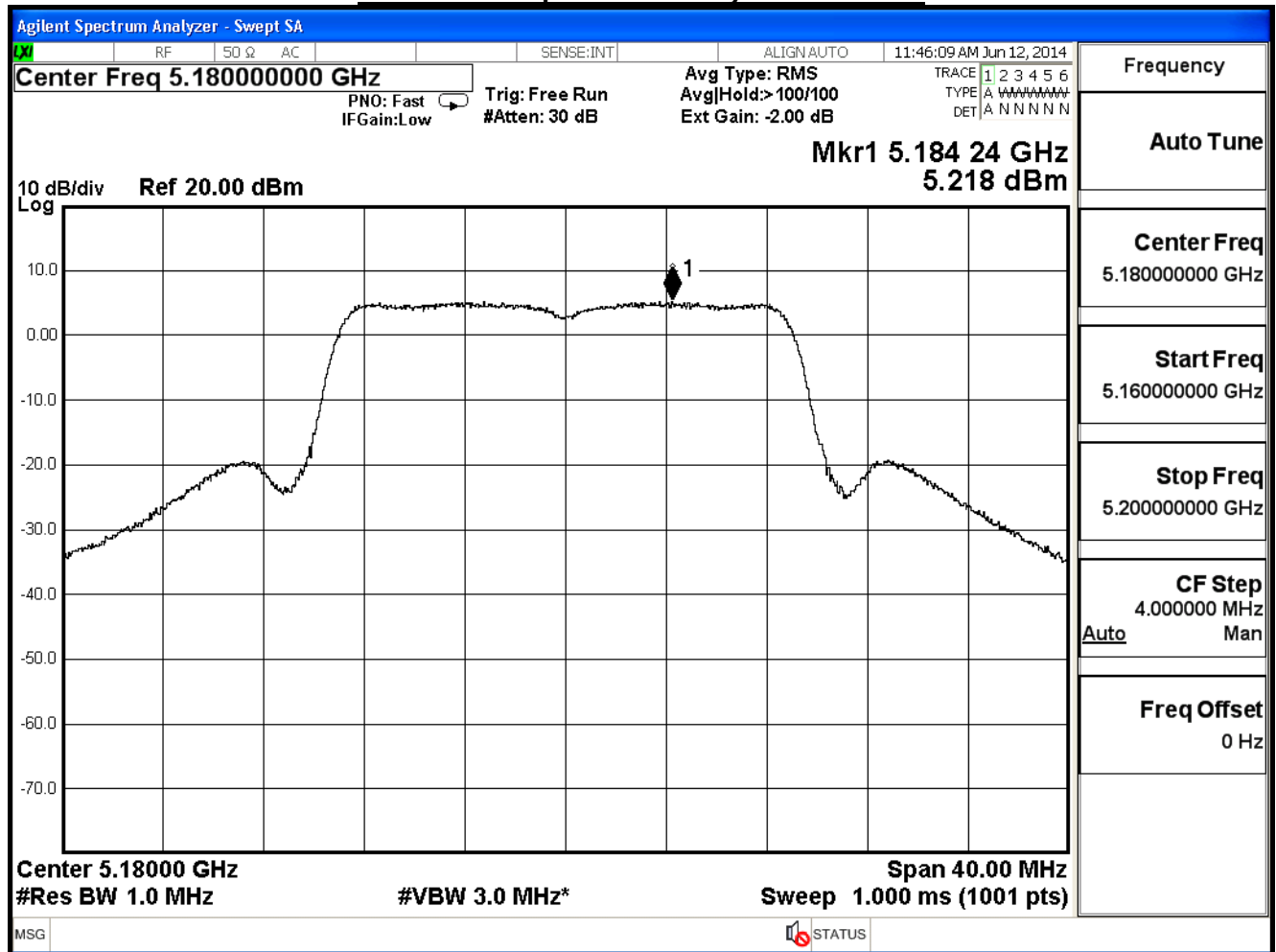
| IEEE 802.11n_20M(ANT 0) |                 |                     |                      |        |
|-------------------------|-----------------|---------------------|----------------------|--------|
| Channel No.             | Frequency (MHz) | Measure Level (dBm) | Required Limit (dBm) | Result |
| 36                      | 5180            | 5.218               | $\leq 16.23$         | Pass   |
| 44                      | 5220            | 9.286               | $\leq 16.23$         | Pass   |
| 48                      | 5240            | 9.290               | $\leq 16.23$         | Pass   |

Note :

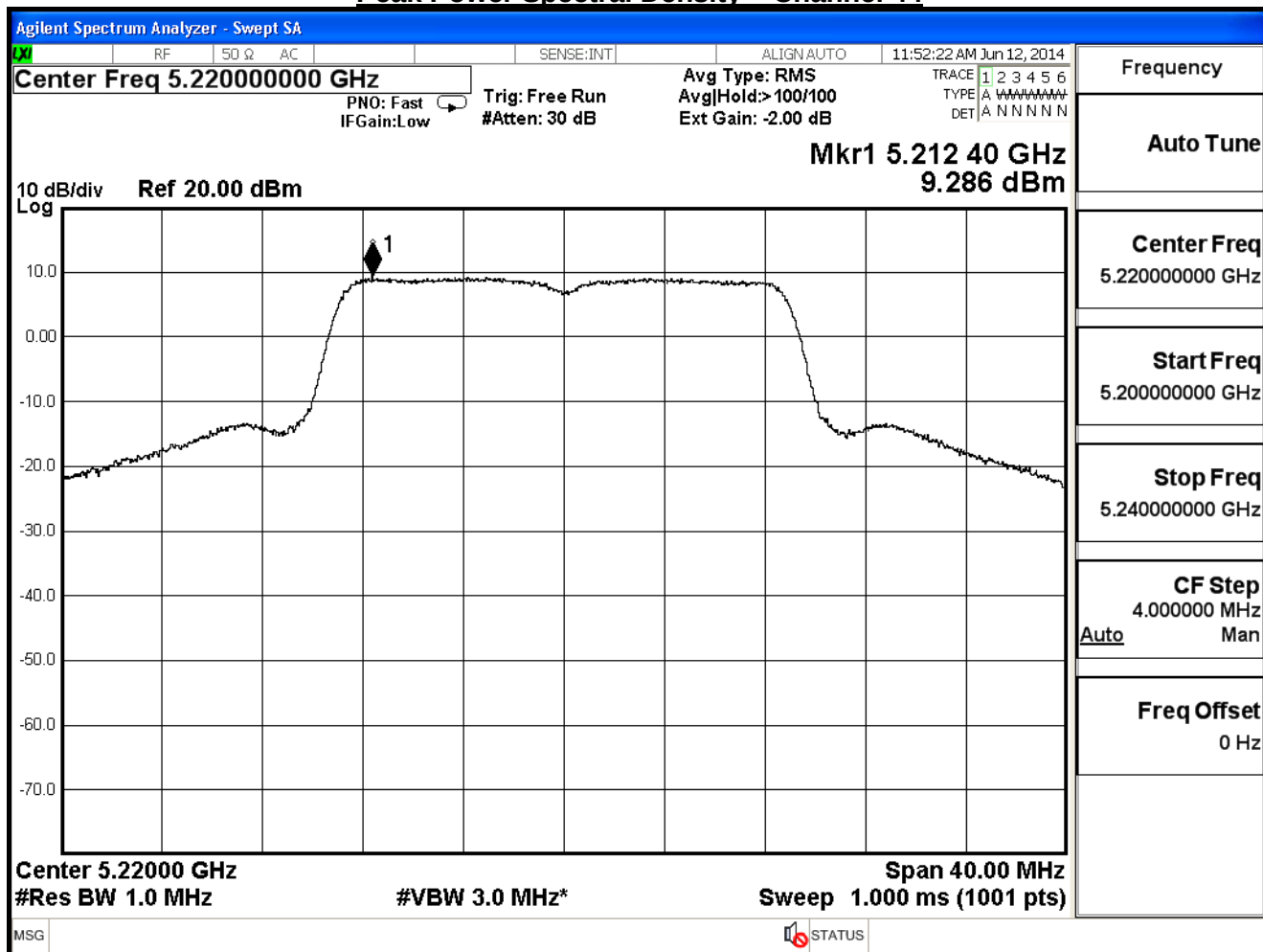
Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

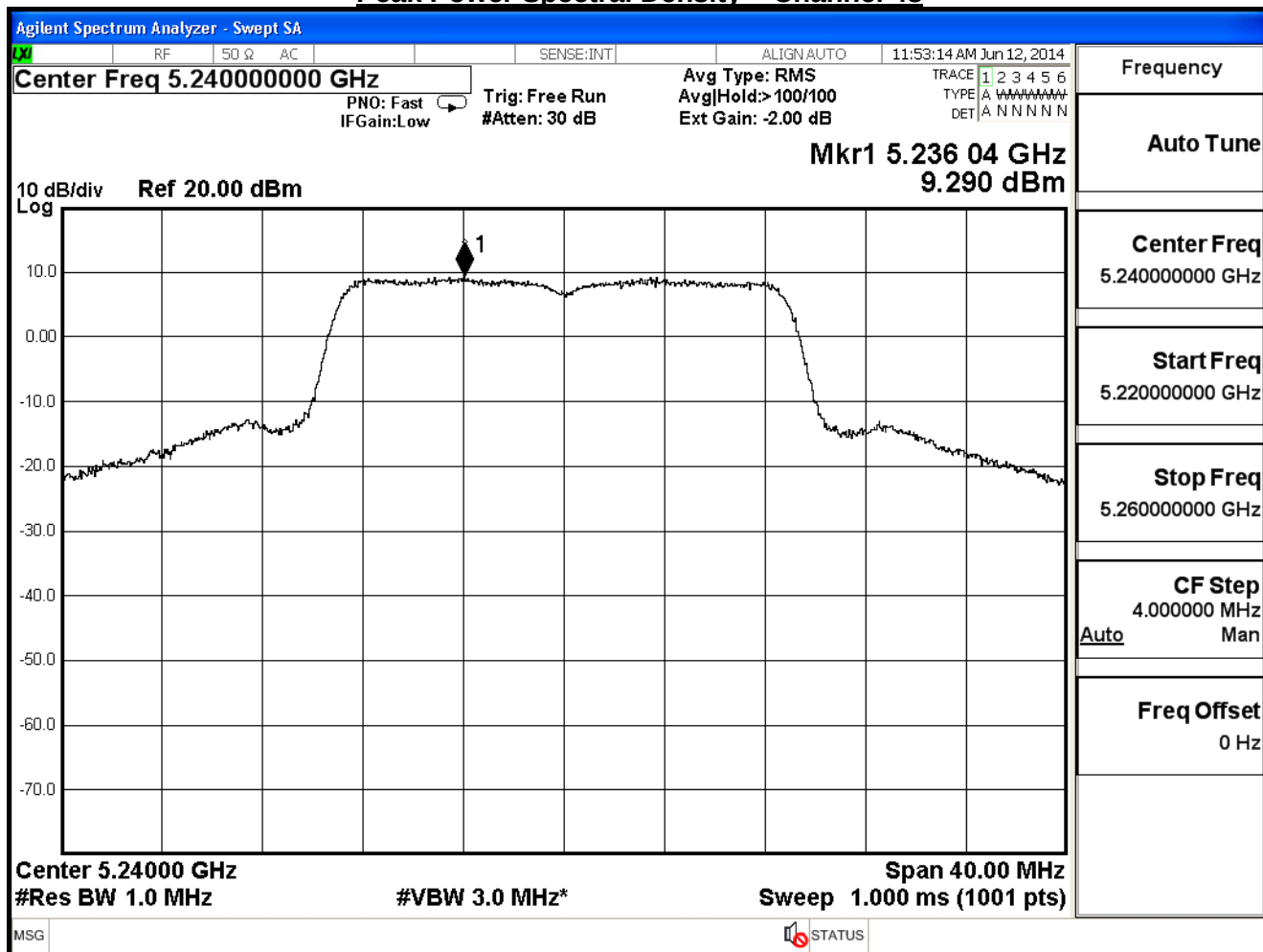
### Peak Power Spectral Density – Channel 36



### Peak Power Spectral Density – Channel 44



# Peak Power Spectral Density – Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

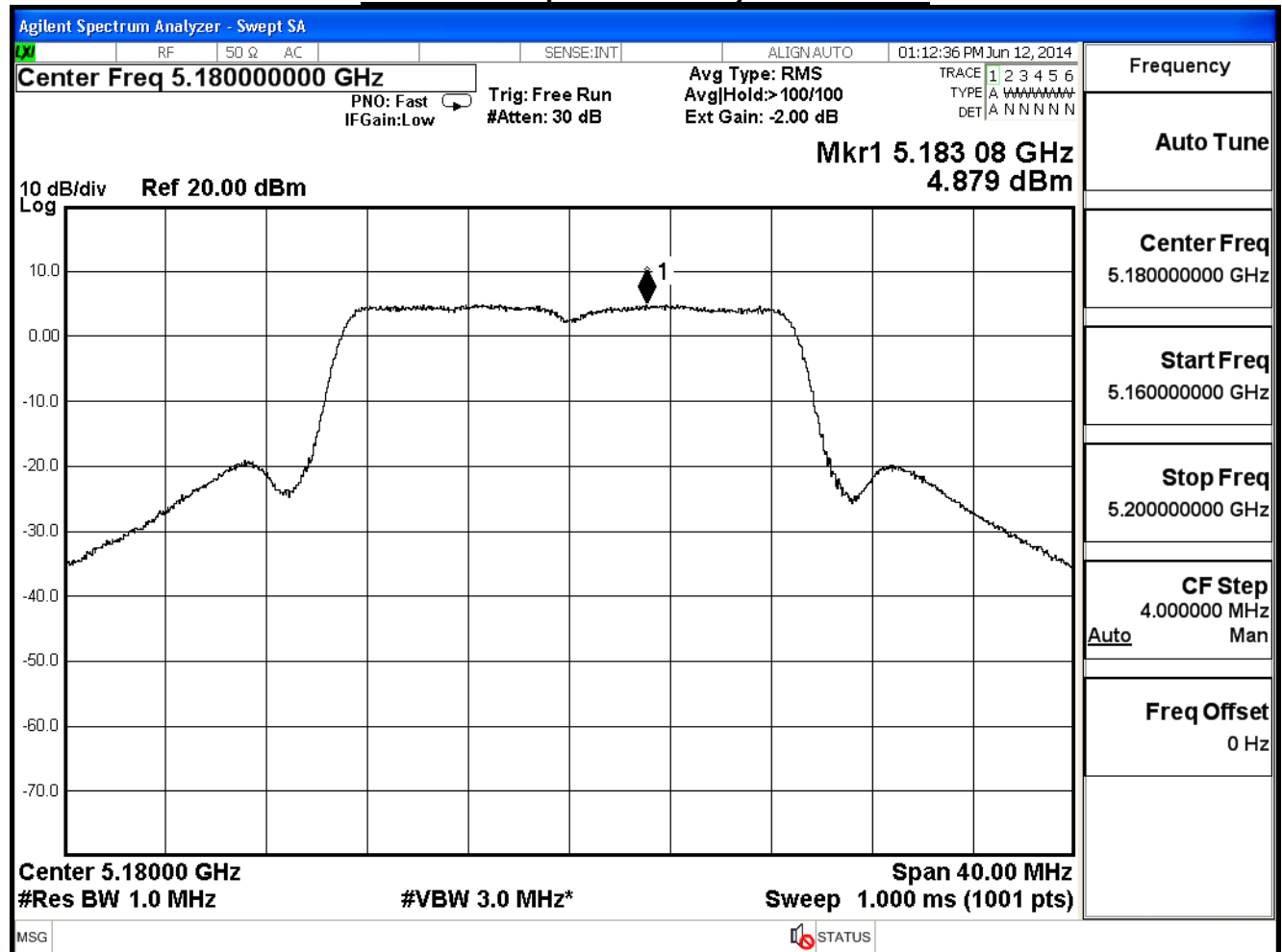
| IEEE 802.11n_20M(ANT 1) |                 |                     |                      |        |
|-------------------------|-----------------|---------------------|----------------------|--------|
| Channel No.             | Frequency (MHz) | Measure Level (dBm) | Required Limit (dBm) | Result |
| 36                      | 5180            | 4.879               | $\leq 16.23$         | Pass   |
| 44                      | 5220            | 8.859               | $\leq 16.23$         | Pass   |
| 48                      | 5240            | 8.877               | $\leq 16.23$         | Pass   |

Note :

Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

### Peak Power Spectral Density – Channel 36



Agilent Spectrum Analyzer - Swept SA

Center Freq 5.22000000 GHz

PNO: Fast Trig: Free Run  
IFGain:Low #Atten: 30 dB

Avg Type: RMS  
Avg|Hold:>100/100  
Ext Gain: -2.00 dB

01:02:04 PM Jun 12, 2014

TRACE 1 2 3 4 5 6  
TYPE A W W W W W W W W  
DET A N N N N N N

Frequency

Auto Tune

Center Freq  
5.220000000 GHz

Start Freq  
5.200000000 GHz

Stop Freq  
5.240000000 GHz

CF Step  
4.000000 MHz  
Auto Man

Freq Offset  
0 Hz

10 dB/div Ref 20.00 dBm

Mkr1 5.217 36 GHz  
8.859 dBm

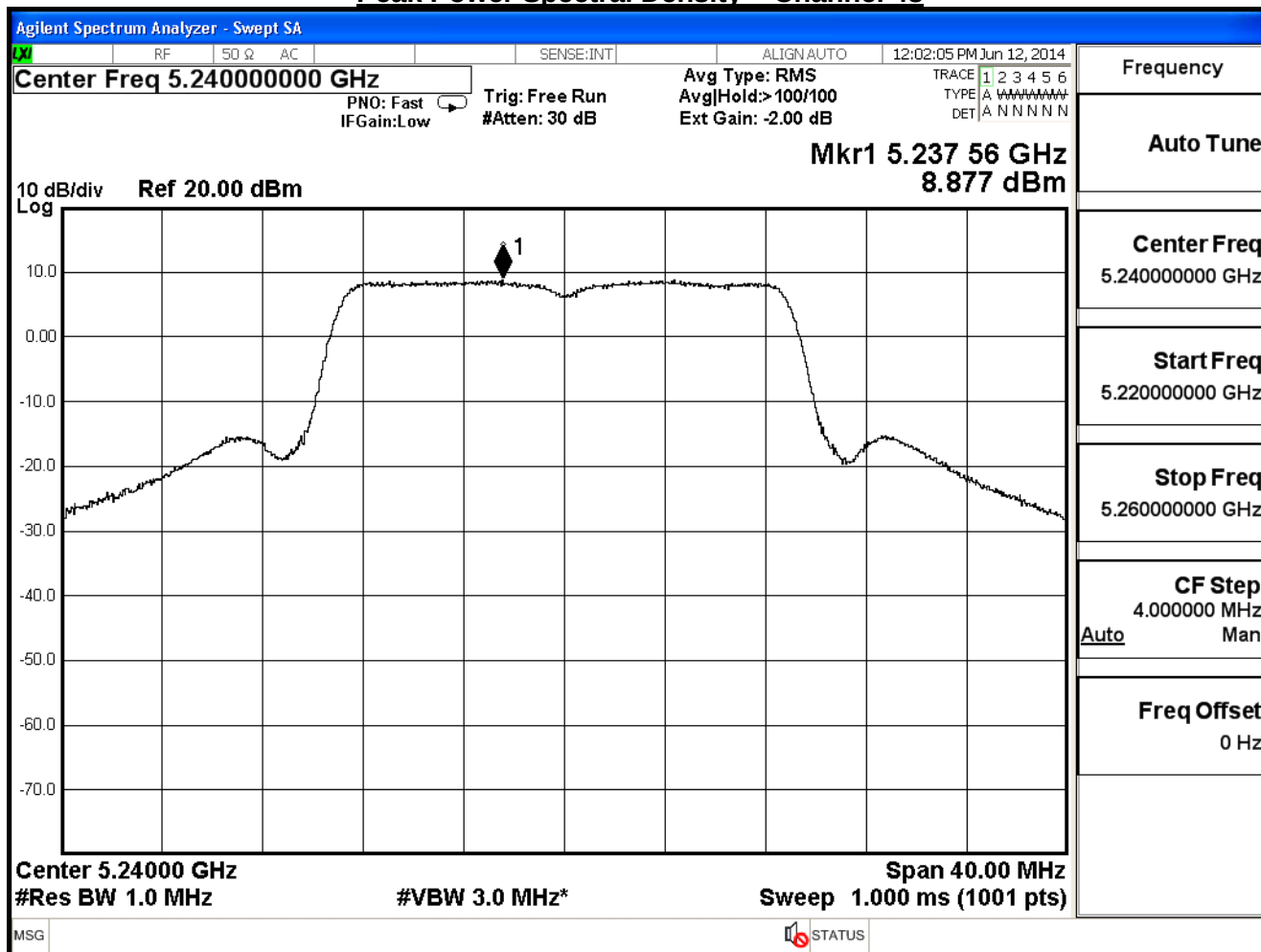
Center 5.22000 GHz  
#Res BW 1.0 MHz

#VBW 3.0 MHz\*

Span 40.00 MHz  
Sweep 1.000 ms (1001 pts)

MSG STATUS

### Peak Power Spectral Density – Channel 48



| IEEE 802.11n_20M(ANT 2) |                    |                        |                         |        |
|-------------------------|--------------------|------------------------|-------------------------|--------|
| Channel No.             | Frequency<br>(MHz) | Measure Level<br>(dBm) | Required Limit<br>(dBm) | Result |
| 36                      | 5180               | 6.358                  | ≤ 16.23                 | Pass   |
| 44                      | 5220               | 9.629                  | ≤ 16.23                 | Pass   |
| 48                      | 5240               | 9.447                  | ≤ 16.23                 | Pass   |

Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$   
 Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.18000000 GHz

PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB

Avg Type: RMS Avg|Hold: >100/100 Ext Gain: -2.00 dB

TRACE 1 2 3 4 5 6 TYPE A WWWWWW DET A N N N N N

01:16:25 PM Jun 12, 2014

Frequency

Auto Tune

Center Freq 5.18000000 GHz

Start Freq 5.16000000 GHz

Stop Freq 5.20000000 GHz

CF Step 4.000000 MHz Man

Auto

Freq Offset 0 Hz

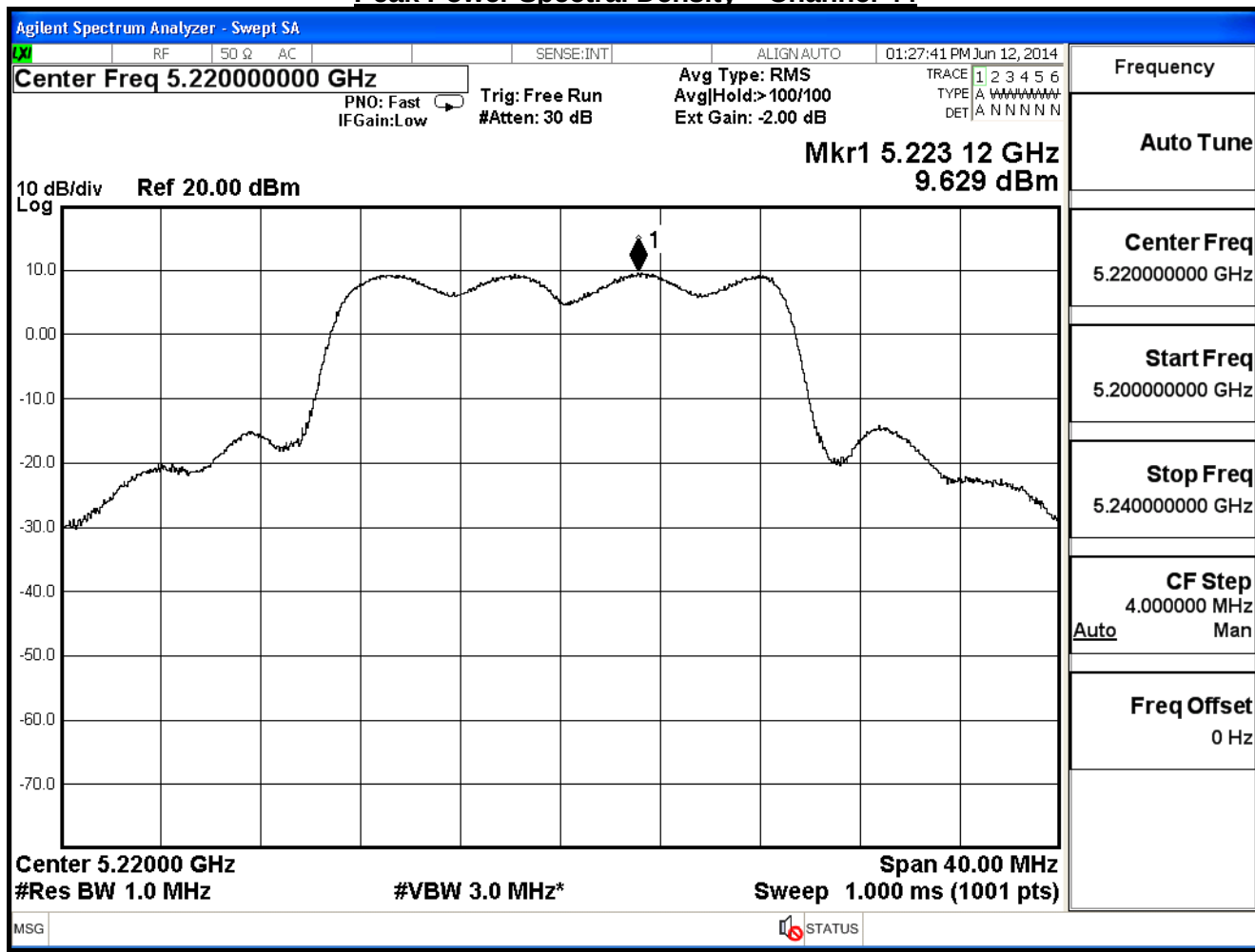
10 dB/div Log Ref 20.00 dBm

Mkr1 5.183 64 GHz 6.358 dBm

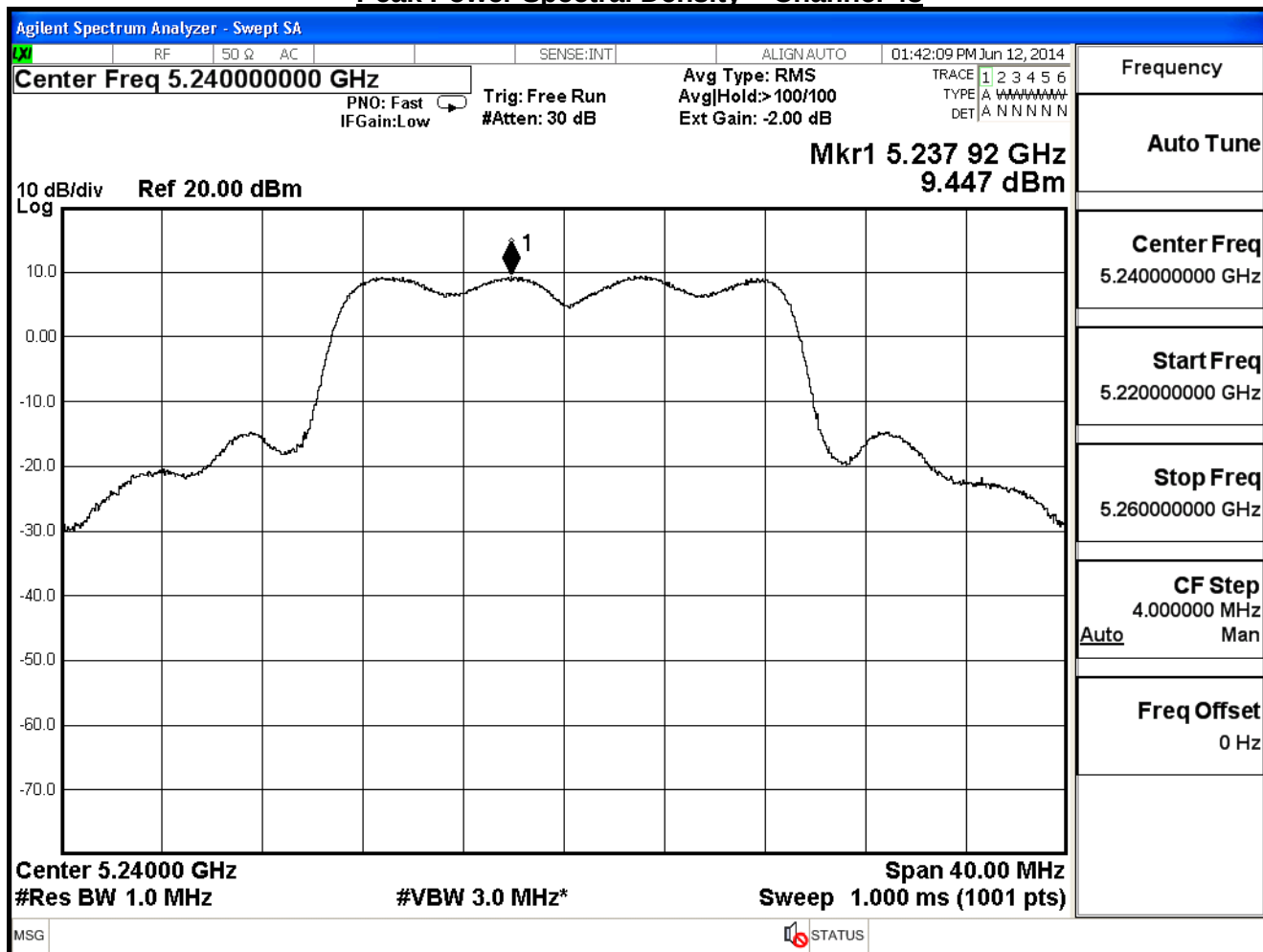
Center 5.18000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz\* Span 40.00 MHz Sweep 1.000 ms (1001 pts)

MSG STATUS

### Peak Power Spectral Density – Channel 44



### Peak Power Spectral Density – Channel 48



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n_20M(ANT 0+1+2) |                    |                        |                         |        |
|-----------------------------|--------------------|------------------------|-------------------------|--------|
| Channel No.                 | Frequency<br>(MHz) | Measure Level<br>(dBm) | Required Limit<br>(dBm) | Result |
| 36                          | 5180               | 10.303                 | $\leq 16.23$            | Pass   |
| 44                          | 5220               | 14.041                 | $\leq 16.23$            | Pass   |
| 48                          | 5240               | 13.982                 | $\leq 16.23$            | Pass   |

Note :

Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

| IEEE 802.11n_40M(ANT 0) |                    |                        |                         |        |
|-------------------------|--------------------|------------------------|-------------------------|--------|
| Channel No.             | Frequency<br>(MHz) | Measure Level<br>(dBm) | Required Limit<br>(dBm) | Result |
| 38                      | 5190               | -4.106                 | $\leq 16.23$            | Pass   |
| 46                      | 5230               | 5.920                  | $\leq 16.23$            | Pass   |

Power Density Limit :  $17\text{dBm} - (6.77\text{dB} - 6\text{dB}) = 16.23\text{dBm}$

Agilent Spectrum Analyzer - Swept SA

RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 02:49:30 PM Jun 12, 2014

Center Freq 5.19000000 GHz

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Avg Type: RMS Avg|Hold:>100/100 Ext Gain: -2.00 dB

TRACE 1 2 3 4 5 6 TYPE A W W W W W W W W DET A N N N N N N

Mkr1 5.188 48 GHz -4.106 dBm

10 dB/div Log Ref 20.00 dBm

Center Freq 5.19000000 GHz

Start Freq 5.15000000 GHz

Stop Freq 5.23000000 GHz

CF Step 8.000000 MHz Auto Man

Freq Offset 0 Hz

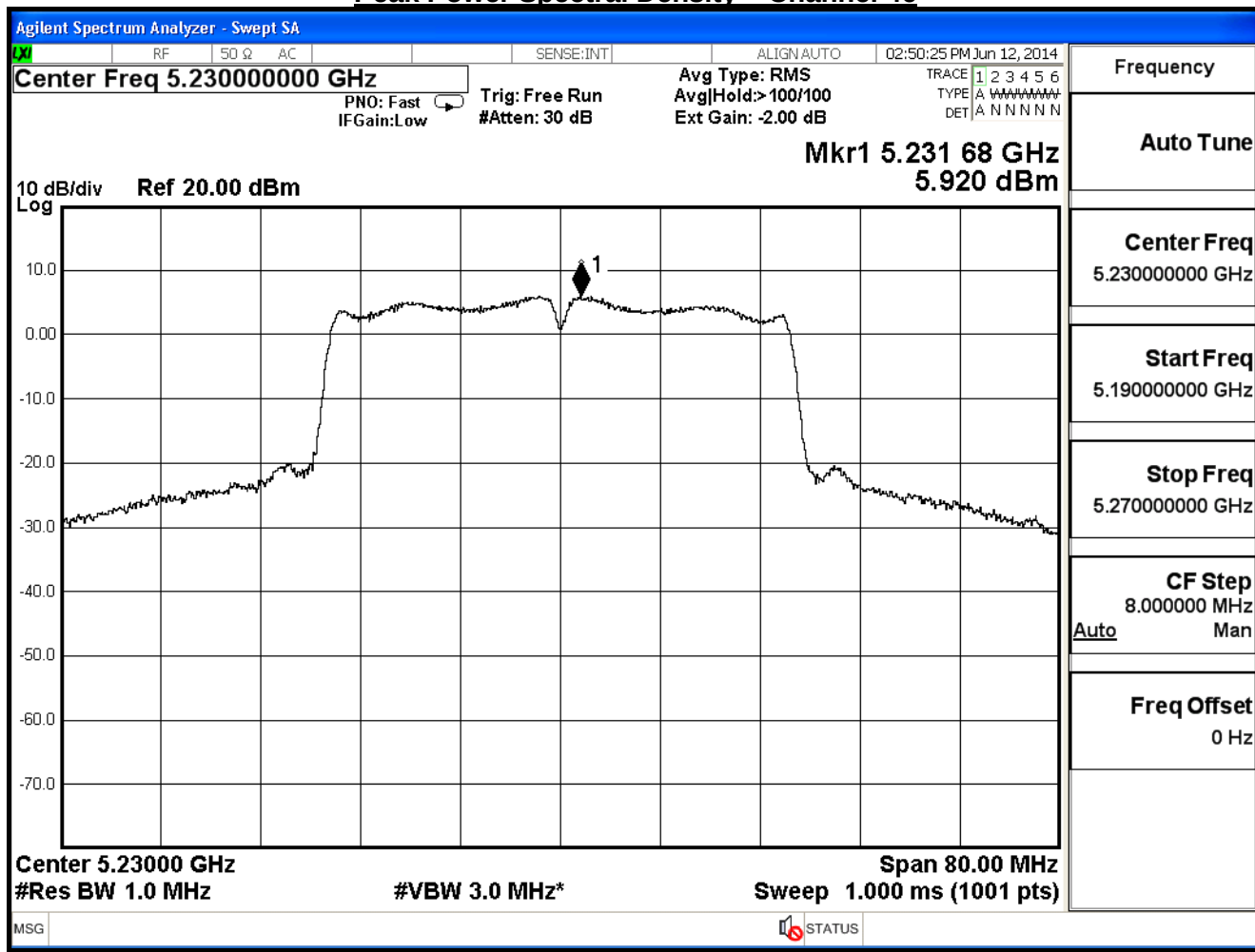
Center 5.19000 GHz Span 80.00 MHz

#Res BW 1.0 MHz #VBW 3.0 MHz\*

Sweep 1.000 ms (1001 pts)

MSG STATUS

### Peak Power Spectral Density – Channel 46



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

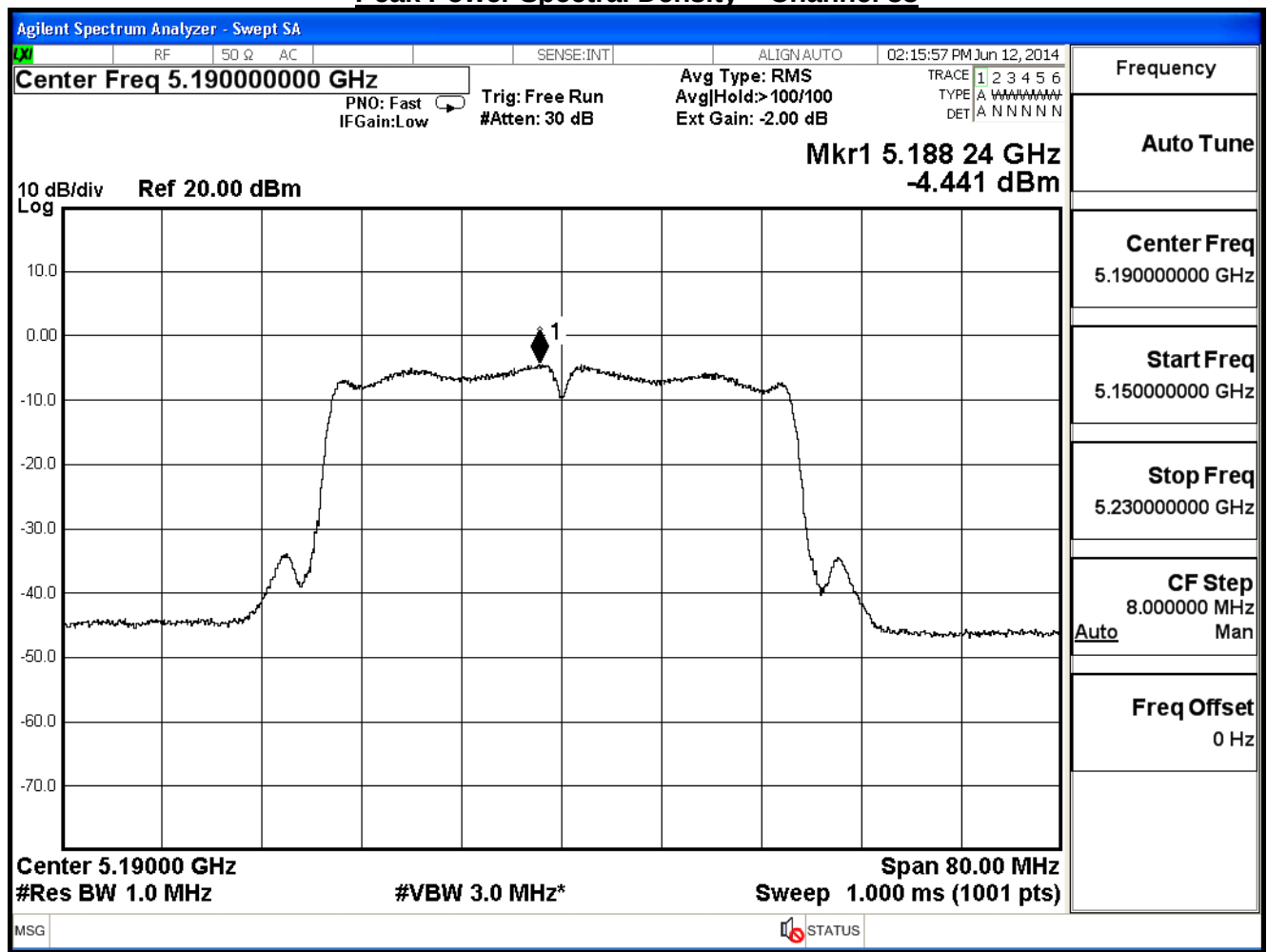
| IEEE 802.11n_40M(ANT 1) |                 |                     |                      |        |
|-------------------------|-----------------|---------------------|----------------------|--------|
| Channel No.             | Frequency (MHz) | Measure Level (dBm) | Required Limit (dBm) | Result |
| 38                      | 5190            | -4.441              | $\leq 16.23$         | Pass   |
| 46                      | 5230            | 5.874               | $\leq 16.23$         | Pass   |

Note :

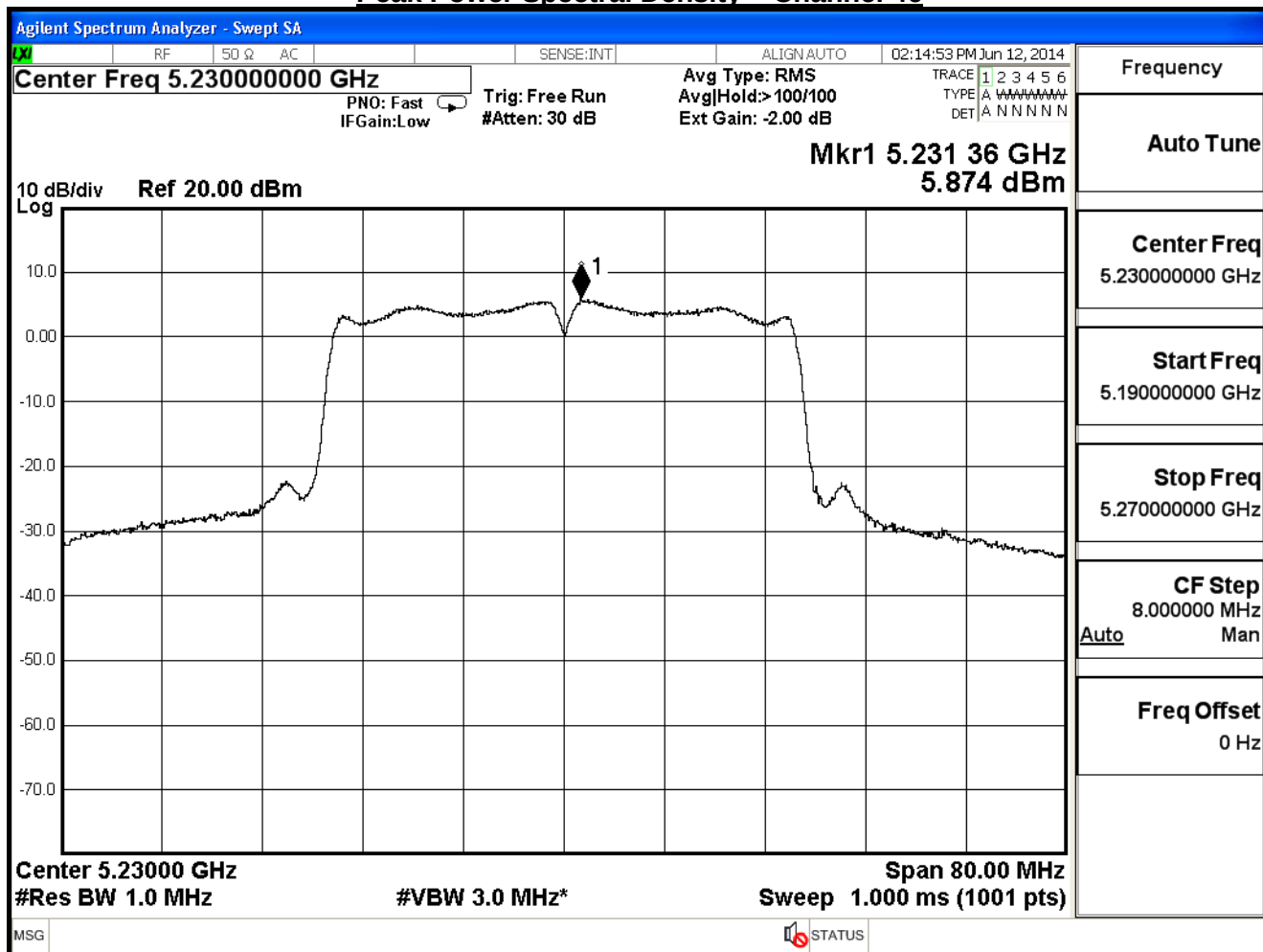
Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

### Peak Power Spectral Density – Channel 38



# Peak Power Spectral Density – Channel 46



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

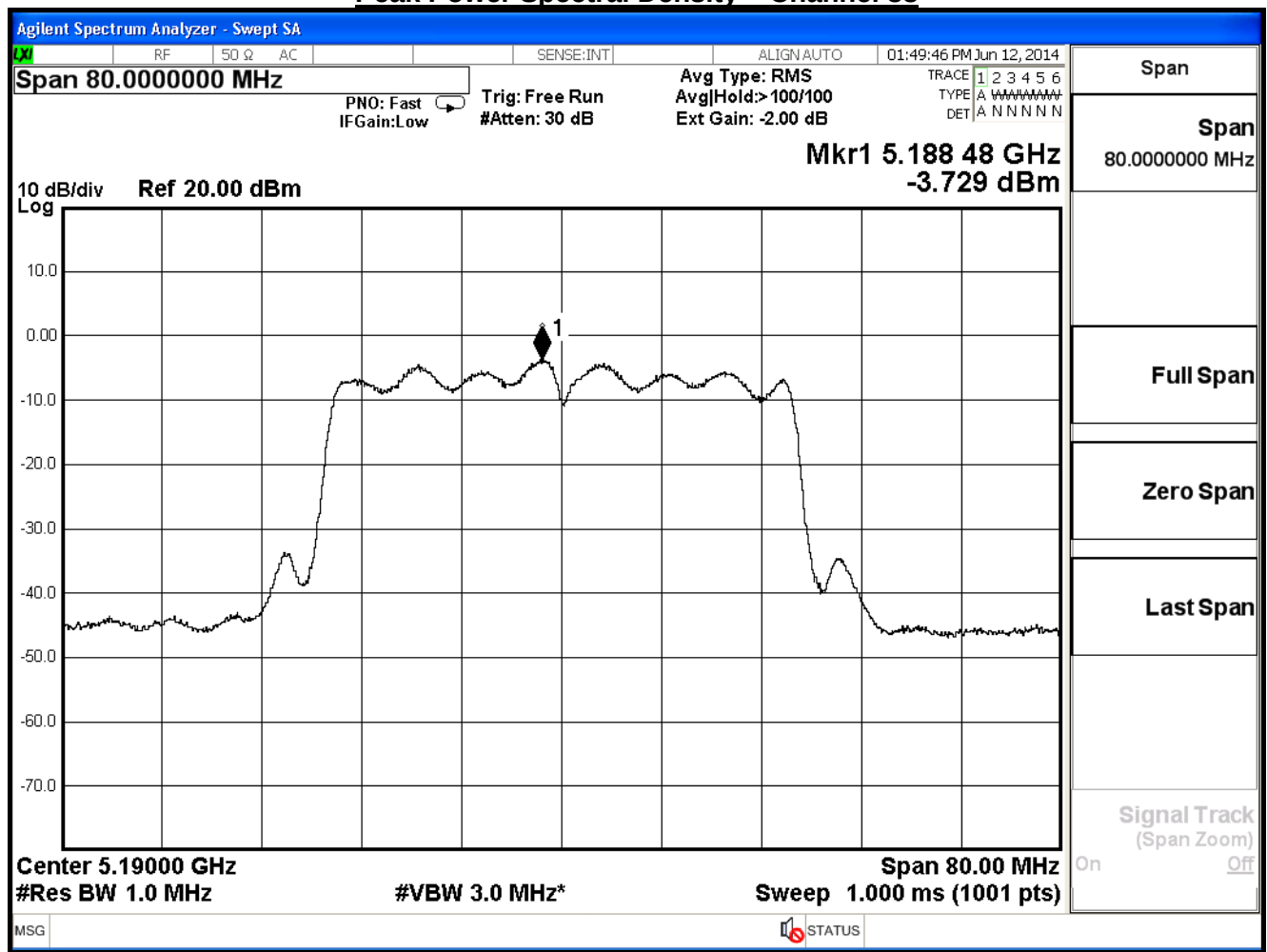
| IEEE 802.11n_40M(ANT 2) |                    |                        |                         |        |
|-------------------------|--------------------|------------------------|-------------------------|--------|
| Channel No.             | Frequency<br>(MHz) | Measure Level<br>(dBm) | Required Limit<br>(dBm) | Result |
| 38                      | 5190               | -3.729                 | $\leq 16.23$            | Pass   |
| 46                      | 5230               | 6.873                  | $\leq 16.23$            | Pass   |

Note :

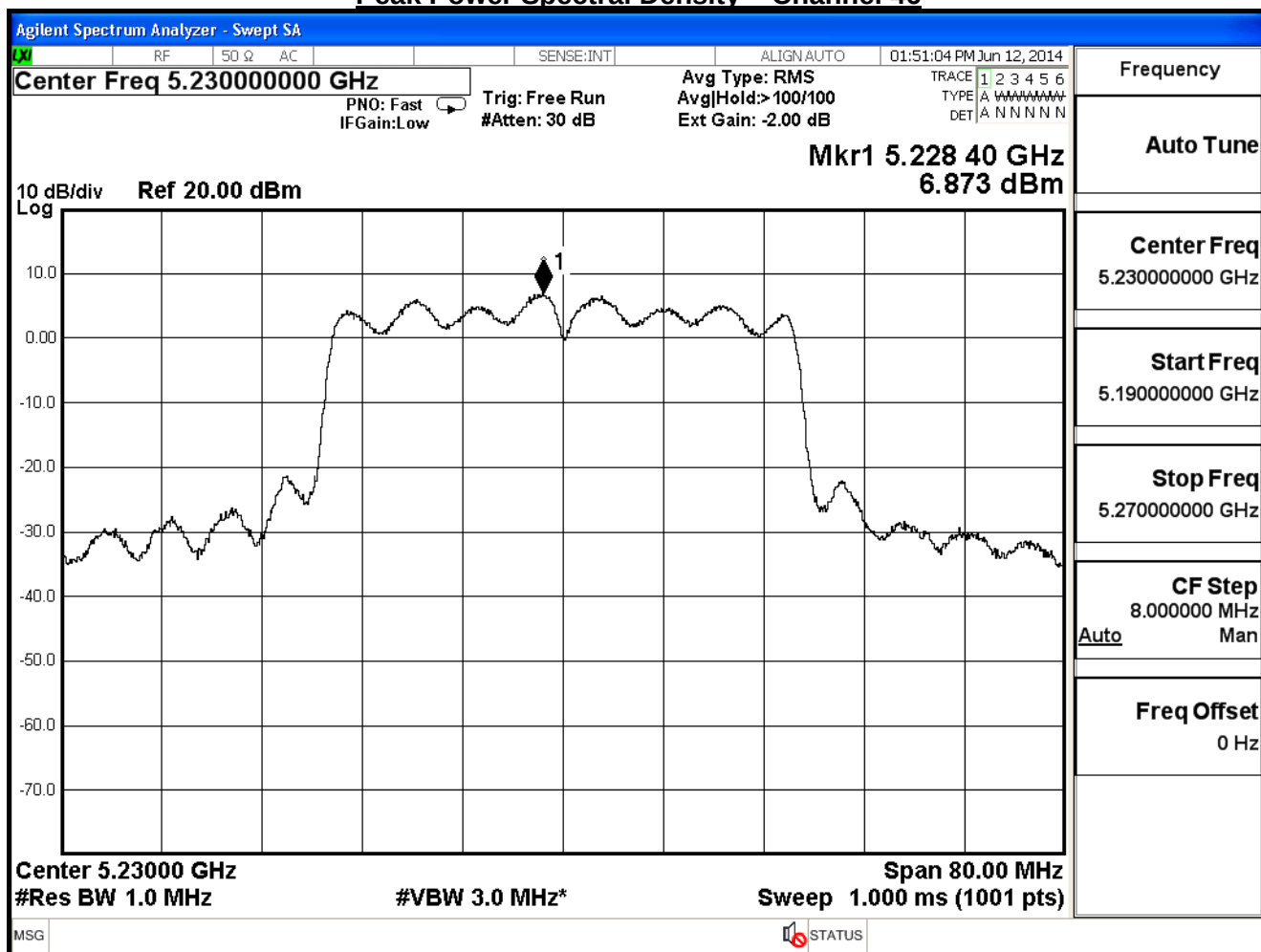
Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

### Peak Power Spectral Density – Channel 38



### Peak Power Spectral Density – Channel 46



|              |                                                     |           |     |
|--------------|-----------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900              |           |     |
| Test Item    | Peak Power Spectral Density                         |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH |           |     |
| Date of Test | 2014/06/12                                          | Test Site | SR7 |

| IEEE 802.11n_40M(ANT 0+1+2) |                    |                        |                         |        |
|-----------------------------|--------------------|------------------------|-------------------------|--------|
| Channel No.                 | Frequency<br>(MHz) | Measure Level<br>(dBm) | Required Limit<br>(dBm) | Result |
| 38                          | 5190               | 0.689                  | $\leq 16.23$            | Pass   |
| 46                          | 5230               | 11.019                 | $\leq 16.23$            | Pass   |

Note :

Directional Antenna :  $10\log(\text{Ant N}) + \text{Max Gain} = 6.77\text{dBi}$

Power Density Limit :  $17\text{dBm} - (6.77\text{dBi} - 6\text{dB}) = 16.23\text{dBm}$

## 6. Radiated Emission

### 6.1. Test Equipment

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

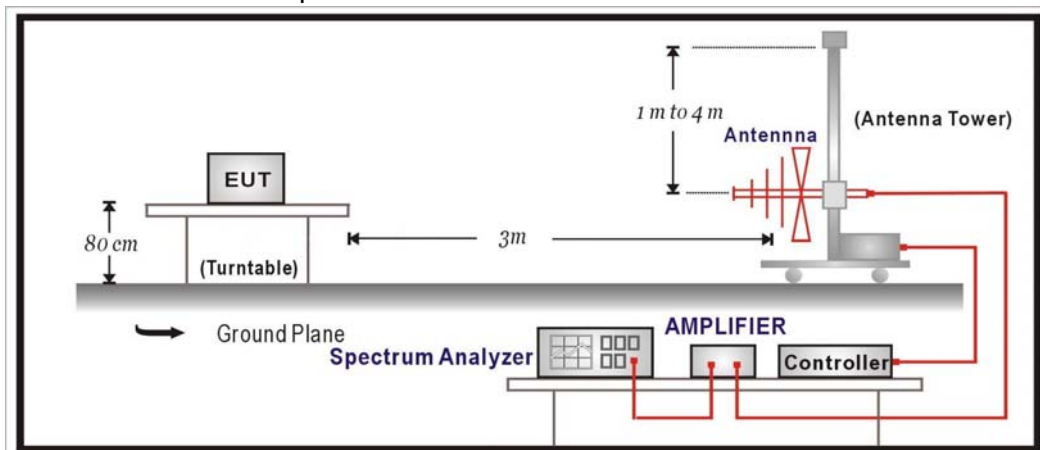
#### Radiated Emission / CB1

| Instrument                       | Manufacturer | Model No.    | Serial No   | Next Cal. Date |
|----------------------------------|--------------|--------------|-------------|----------------|
| Bilog Antenna                    | SCHAFFNER    | CBL6112B     | 2895(CB1)   | 2014/08/14     |
| Double Ridged Guide Horn Antenna | Schwarzback  | BBHA 9120    | D743        | 2015/02/12     |
| Pre-Amplifier                    | Quietek      | AMF-4D.      | 888003      | 2015/06/02     |
| Pre-Amplifier                    | Quietek      | AP-025C      | CHM-0706049 | 2015/02/06     |
| Spectrum Analyzer                | Agilent      | E4440A       | MY46187335  | 2015/01/12     |
| k Type Cable                     | Huber Suhner | Sucoflex 102 | 25623/2     | 2015/02/10     |

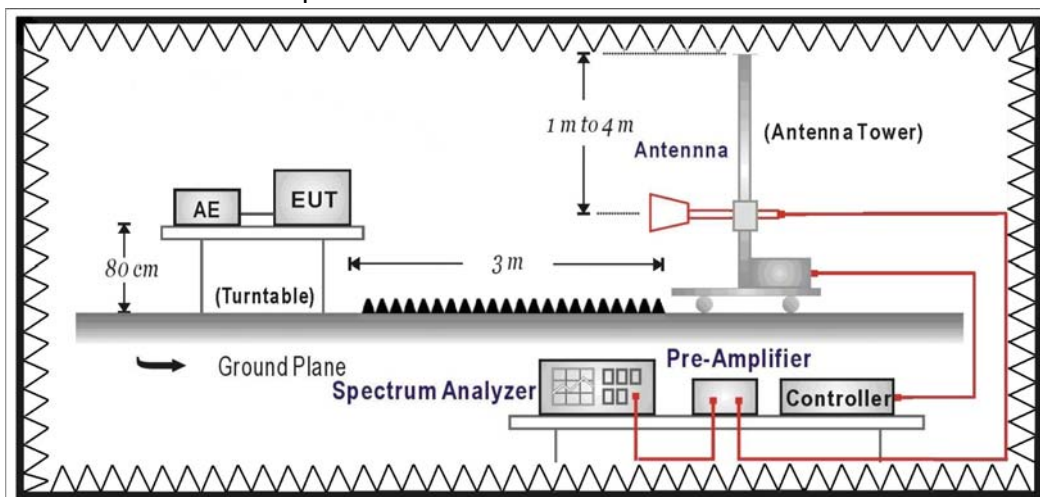
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 6.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



### 6.3. Limits

#### ➤ General Radiated Emission Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

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

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### ➤ Unwanted Emission out of the restricted bands Limits

| FCC Part 15 Subpart E Paragraph 15.407(b) Limits |                     |                                          |
|--------------------------------------------------|---------------------|------------------------------------------|
| Frequency<br>(MHz)                               | EIRP Limit<br>(dBm) | Equivalent Field Strength<br>(dBuV/m@3m) |
| 5150~5250                                        | -27                 | 68.3                                     |
| 5250~5350                                        | -27                 | 68.3                                     |
| 5470~5725                                        | -27                 | 68.3                                     |
| 5725~5825                                        | -27 (Note1)         | 68.3                                     |
|                                                  | -17 (Note2)         | 78.3                                     |

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. 
$$uV/m = \frac{1000000\sqrt{30 \times EIRP}}{3}$$
, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

#### 6.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

#### 6.5. Uncertainty

The measurement uncertainty

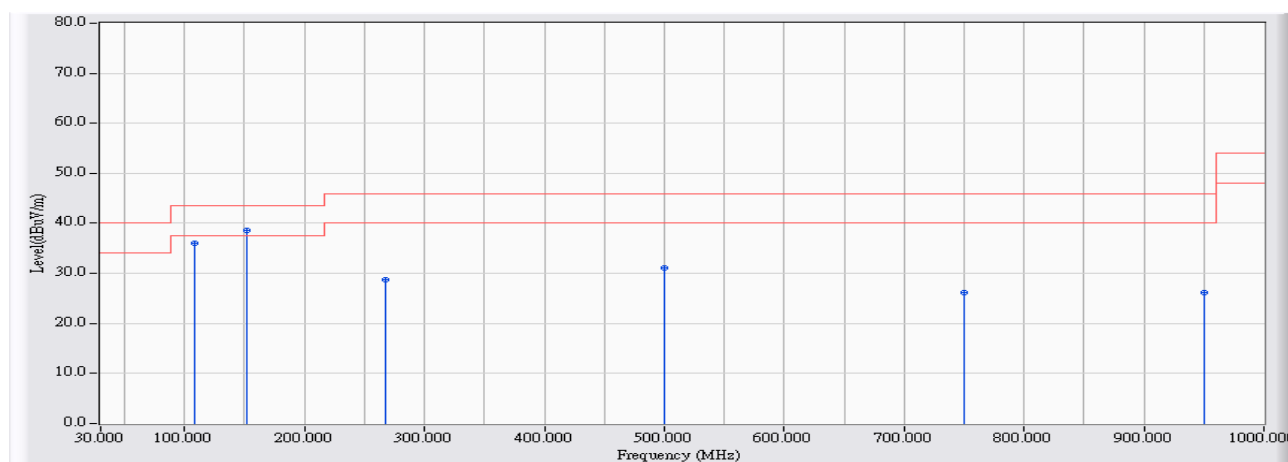
30MHz~1GHz as  $\pm 3.43\text{dB}$

1GHz~26.5Ghz as  $\pm 3.65\text{dB}$

## 6.6. Test Result

### 30MHz-1GHz Spurious

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/13 - 10:27                                                     |
| Limit : FCC CLASS B 03M_QP                    | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

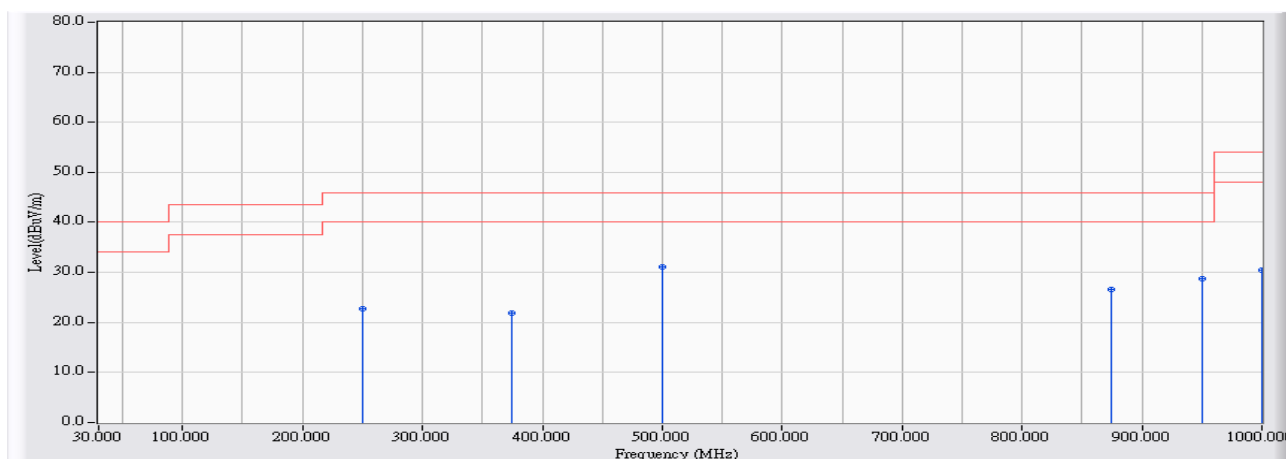


|   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | 108.689            | -23.325                | 59.324                  | 35.999                    | -7.501         | 43.500            | QUASIPeAK     |
| 2 | * 151.745          | -24.001                | 62.621                  | 38.620                    | -4.880         | 43.500            | QUASIPeAK     |
| 3 | 267.056            | -21.254                | 49.948                  | 28.695                    | -17.305        | 46.000            | QUASIPeAK     |
| 4 | 500.153            | -16.219                | 47.272                  | 31.052                    | -14.948        | 46.000            | QUASIPeAK     |
| 5 | 750.077            | -14.946                | 41.153                  | 26.207                    | -19.793        | 46.000            | QUASIPeAK     |
| 6 | 950.015            | -13.719                | 39.865                  | 26.146                    | -19.854        | 46.000            | QUASIPeAK     |

Note:

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

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/13 - 10:30                                                     |
| Limit : FCC_CLASS_B_03M_QP                   | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

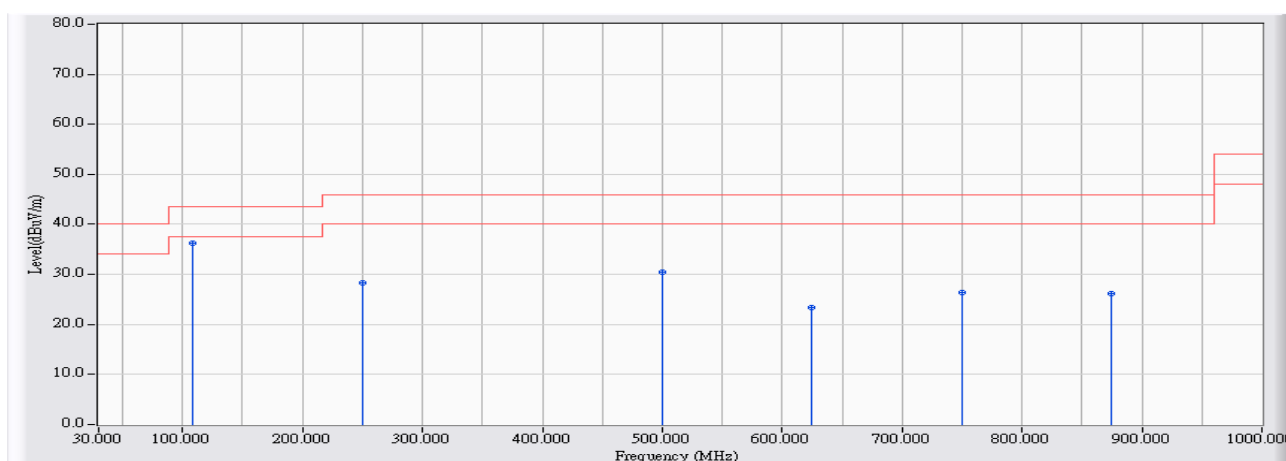


|   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | 249.735            | -21.592                | 44.325                  | 22.733                    | -23.267        | 46.000            | QUASIPeAK     |
| 2 | 374.944            | -18.848                | 40.792                  | 21.945                    | -24.055        | 46.000            | QUASIPeAK     |
| 3 | * 500.153          | -16.219                | 47.370                  | 31.150                    | -14.850        | 46.000            | QUASIPeAK     |
| 4 | 874.791            | -14.193                | 40.862                  | 26.669                    | -19.331        | 46.000            | QUASIPeAK     |
| 5 | 950.015            | -13.719                | 42.558                  | 28.839                    | -17.161        | 46.000            | QUASIPeAK     |
| 6 | 1000.000           | -13.311                | 43.746                  | 30.435                    | -23.565        | 54.000            | QUASIPeAK     |

Note:

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

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/13 - 10:33                                                            |
| Limit : FCC_CLASS_B_03M_QP                    | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

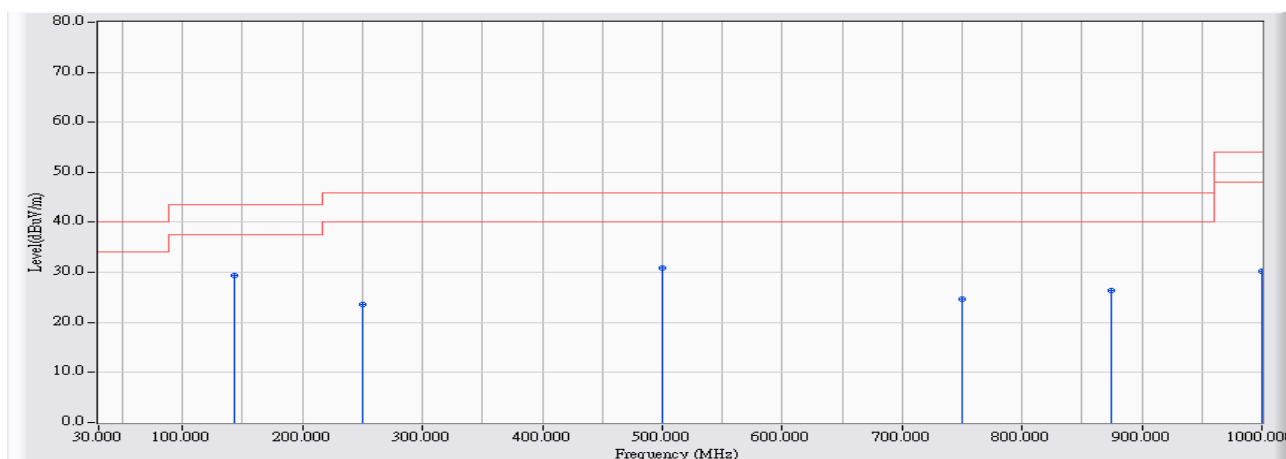


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 108.689            | -23.325                | 59.465                  | 36.140                    | -7.360         | 43.500            | QUASIPeAK     |
| 2 |   | 250.230            | -21.562                | 49.878                  | 28.316                    | -17.684        | 46.000            | QUASIPeAK     |
| 3 |   | 500.153            | -16.219                | 46.644                  | 30.424                    | -15.576        | 46.000            | QUASIPeAK     |
| 4 |   | 624.867            | -15.890                | 39.320                  | 23.430                    | -22.570        | 46.000            | QUASIPeAK     |
| 5 |   | 750.077            | -14.946                | 41.344                  | 26.398                    | -19.602        | 46.000            | QUASIPeAK     |
| 6 |   | 874.791            | -14.193                | 40.253                  | 26.060                    | -19.940        | 46.000            | QUASIPeAK     |

Note:

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

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/13 - 10:37                                                            |
| Limit : FCC_CLASS_B_03M_QP                   | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

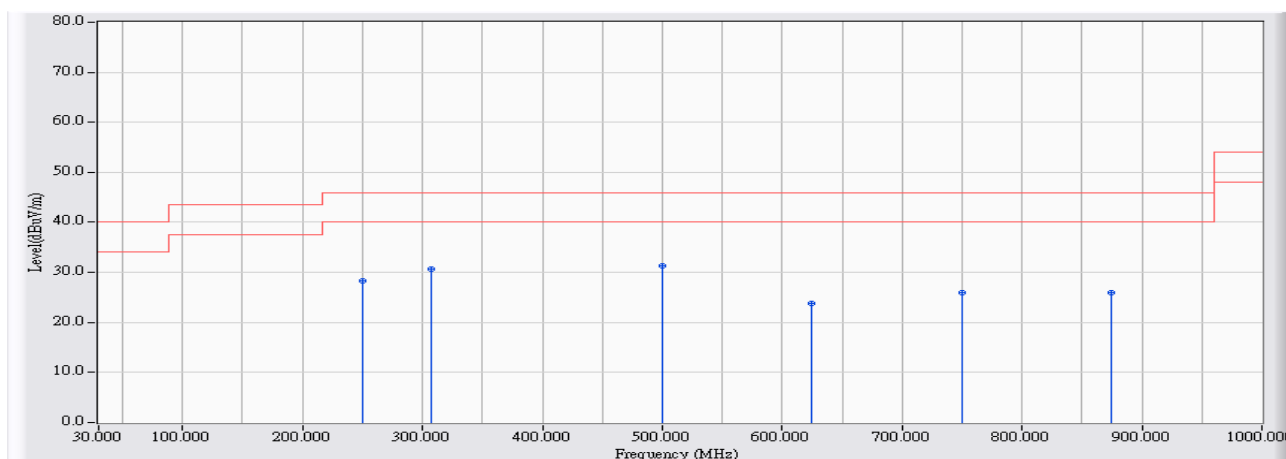


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 143.332            | -23.591                | 53.006                  | 29.415                    | -14.085        | 43.500            | QUASIPeAK     |
| 2 |   | 250.230            | -21.562                | 45.085                  | 23.523                    | -22.477        | 46.000            | QUASIPeAK     |
| 3 |   | 500.153            | -16.219                | 47.053                  | 30.833                    | -15.167        | 46.000            | QUASIPeAK     |
| 4 |   | 750.077            | -14.946                | 39.646                  | 24.700                    | -21.300        | 46.000            | QUASIPeAK     |
| 5 |   | 874.791            | -14.193                | 40.552                  | 26.359                    | -19.641        | 46.000            | QUASIPeAK     |
| 6 |   | 1000.000           | -13.311                | 43.640                  | 30.329                    | -23.671        | 54.000            | QUASIPeAK     |

Note:

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

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/13 - 10:42                                                            |
| Limit : FCC_CLASS_B_03M_QP                    | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

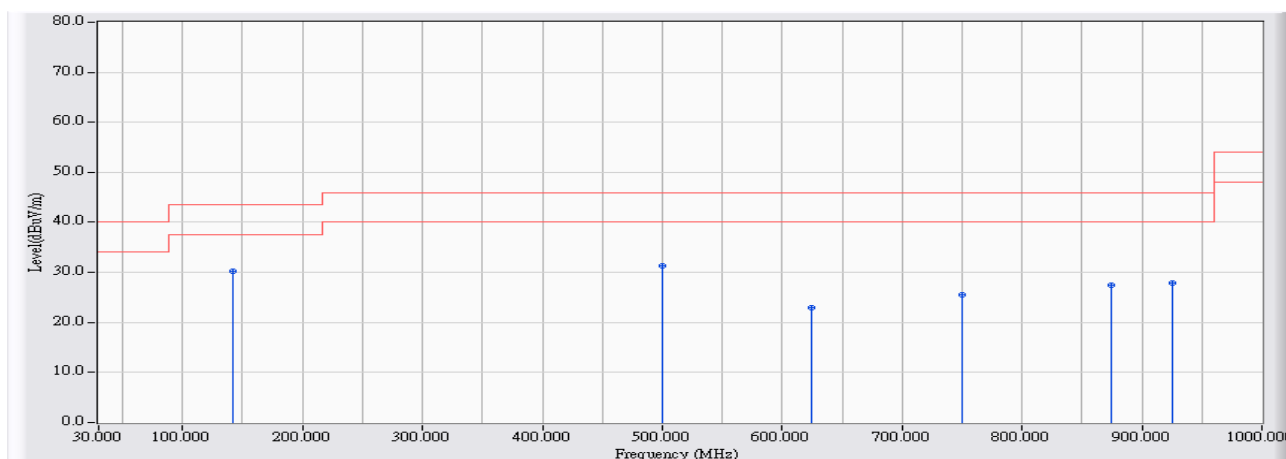


|   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | 250.230            | -21.562                | 49.883                  | 28.321                    | -17.679        | 46.000            | QUASIPeAK     |
| 2 | 307.143            | -20.476                | 51.131                  | 30.655                    | -15.345        | 46.000            | QUASIPeAK     |
| 3 | * 500.153          | -16.219                | 47.608                  | 31.388                    | -14.612        | 46.000            | QUASIPeAK     |
| 4 | 624.867            | -15.890                | 39.625                  | 23.735                    | -22.265        | 46.000            | QUASIPeAK     |
| 5 | 750.077            | -14.946                | 40.879                  | 25.933                    | -20.067        | 46.000            | QUASIPeAK     |
| 6 | 874.791            | -14.193                | 40.146                  | 25.953                    | -20.047        | 46.000            | QUASIPeAK     |

Note:

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

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/13 - 10:45                                                            |
| Limit : FCC_CLASS_B_03M_QP                   | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

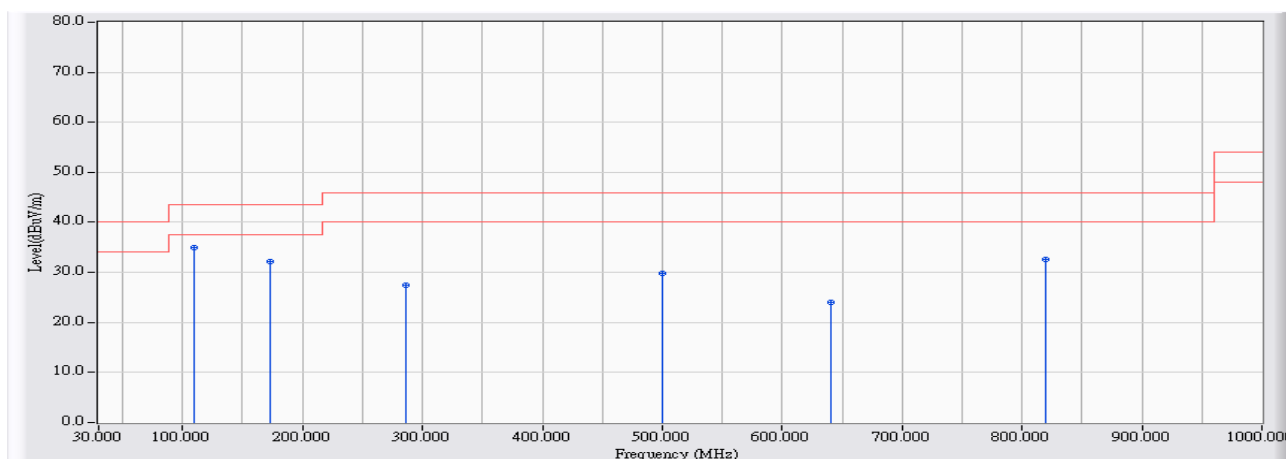


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 141.352            | -23.495                | 53.711                  | 30.217                    | -13.283        | 43.500            | QUASIPeAK     |
| 2 |   | 500.153            | -16.219                | 47.434                  | 31.214                    | -14.786        | 46.000            | QUASIPeAK     |
| 3 |   | 624.867            | -15.890                | 38.773                  | 22.883                    | -23.117        | 46.000            | QUASIPeAK     |
| 4 |   | 750.077            | -14.946                | 40.392                  | 25.446                    | -20.554        | 46.000            | QUASIPeAK     |
| 5 |   | 874.791            | -14.193                | 41.726                  | 27.533                    | -18.467        | 46.000            | QUASIPeAK     |
| 6 |   | 924.776            | -13.926                | 41.826                  | 27.901                    | -18.099        | 46.000            | QUASIPeAK     |

## Note:

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

|                                               |                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/20 - 15:39                                                   |
| Limit : FCC_CLASS_B_03M_QP                    | Margin : 6                                                                  |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                        |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030<br>802.11a_5220MHz |

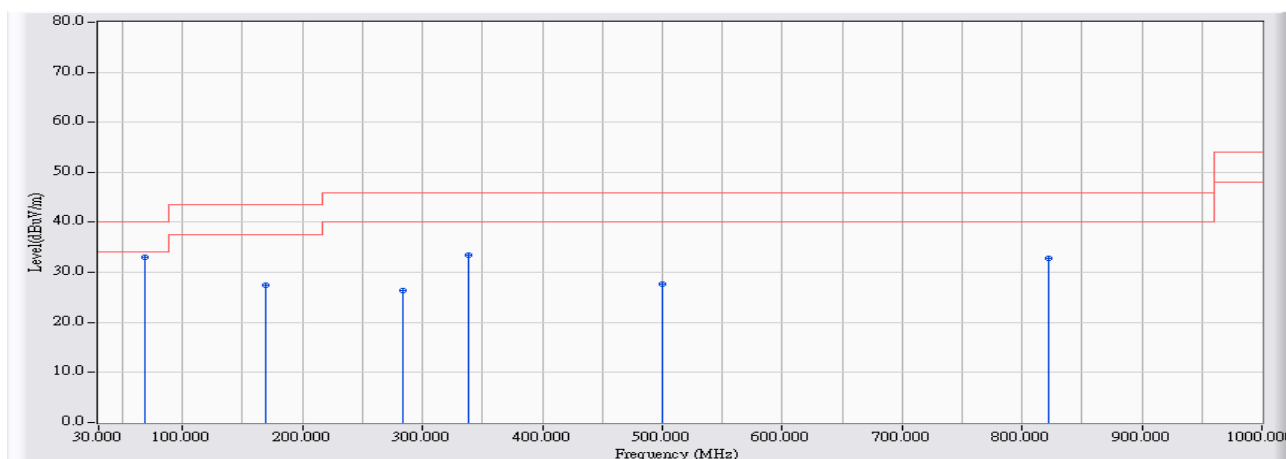


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 109.055            | -23.306                | 58.368                  | 35.061                    | -8.439         | 43.500            | QUASIPeAK     |
| 2 |   | 172.590            | -24.942                | 57.163                  | 32.221                    | -11.279        | 43.500            | QUASIPeAK     |
| 3 |   | 286.565            | -20.894                | 48.376                  | 27.481                    | -18.519        | 46.000            | QUASIPeAK     |
| 4 |   | 499.965            | -16.221                | 45.945                  | 29.723                    | -16.277        | 46.000            | QUASIPeAK     |
| 5 |   | 640.130            | -15.812                | 39.752                  | 23.940                    | -22.060        | 46.000            | QUASIPeAK     |
| 6 |   | 819.095            | -14.337                | 46.858                  | 32.521                    | -13.479        | 46.000            | QUASIPeAK     |

Note:

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

|                                              |                                                                             |
|----------------------------------------------|-----------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/20 - 15:41                                                   |
| Limit : FCC_CLASS_B_03M_QP                   | Margin : 6                                                                  |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL  | Power : AC 120V/60Hz                                                        |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030<br>802.11a_5220MHz |

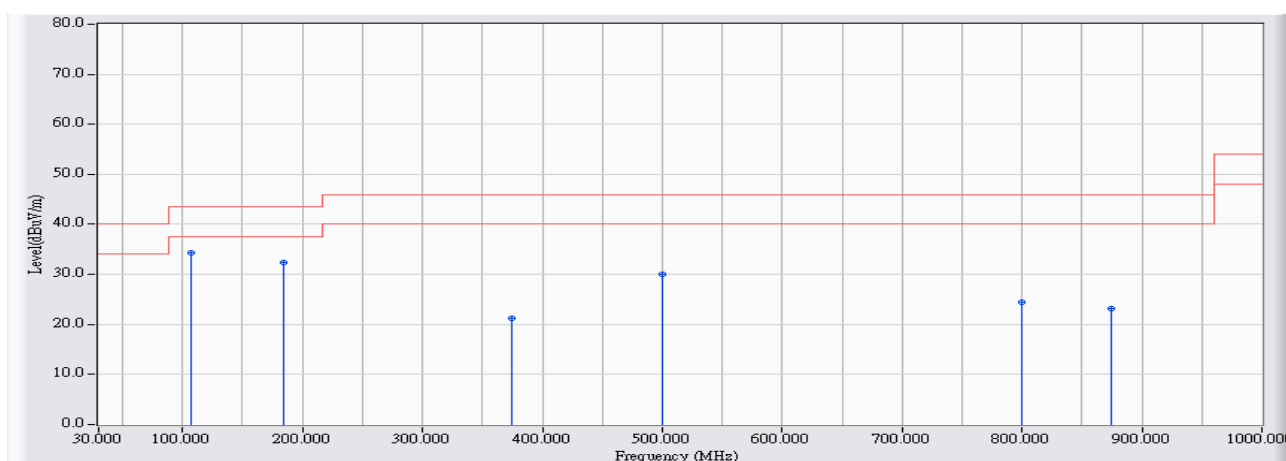


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 68.800             | -27.945                | 60.901                  | 32.956                    | -7.044         | 40.000            | QUASIPeAK     |
| 2 |   | 168.710            | -24.776                | 52.287                  | 27.511                    | -15.989        | 43.500            | QUASIPeAK     |
| 3 |   | 283.655            | -20.948                | 47.394                  | 26.446                    | -19.554        | 46.000            | QUASIPeAK     |
| 4 |   | 338.460            | -19.724                | 53.232                  | 33.508                    | -12.492        | 46.000            | QUASIPeAK     |
| 5 |   | 499.965            | -16.221                | 43.851                  | 27.629                    | -18.371        | 46.000            | QUASIPeAK     |
| 6 |   | 822.005            | -14.330                | 47.198                  | 32.869                    | -13.131        | 46.000            | QUASIPeAK     |

Note:

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

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/20 - 15:43                                                     |
| Limit : FCC_CLASS_B_03M_QP                    | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030<br>802.11n20_5220MHz |

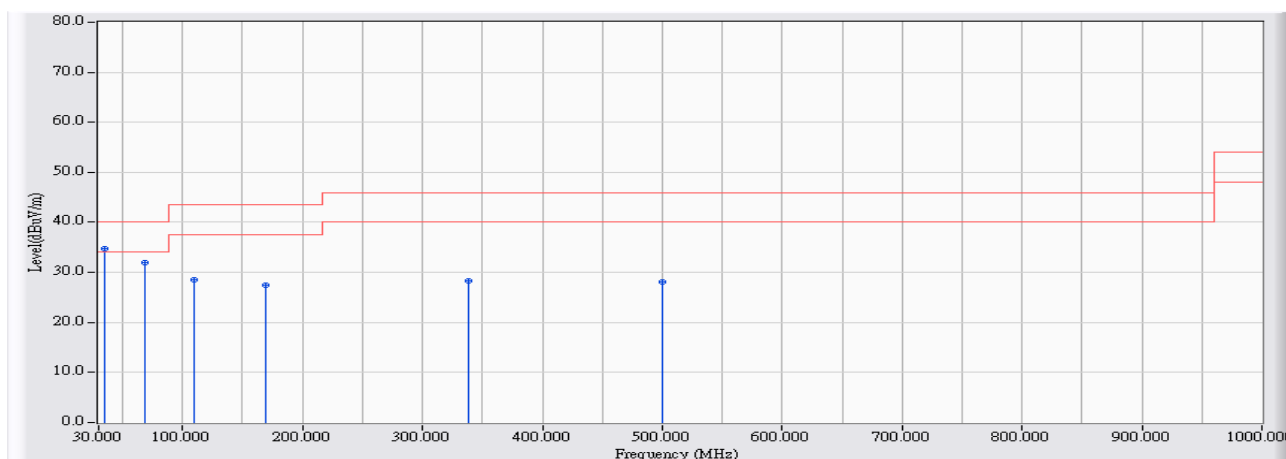


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 106.630            | -23.426                | 57.820                  | 34.393                    | -9.107         | 43.500            | QUASIPeAK     |
| 2 |   | 183.745            | -25.273                | 57.767                  | 32.493                    | -11.007        | 43.500            | QUASIPeAK     |
| 3 |   | 374.835            | -18.850                | 40.038                  | 21.188                    | -24.812        | 46.000            | QUASIPeAK     |
| 4 |   | 499.965            | -16.221                | 46.338                  | 30.116                    | -15.884        | 46.000            | QUASIPeAK     |
| 5 |   | 800.180            | -14.386                | 38.785                  | 24.400                    | -21.600        | 46.000            | QUASIPeAK     |
| 6 |   | 874.870            | -14.193                | 37.451                  | 23.258                    | -22.742        | 46.000            | QUASIPeAK     |

Note:

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

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/20 - 15:45                                                     |
| Limit : FCC_CLASS_B_03M_QP                   | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030<br>802.11n20_5220MHz |

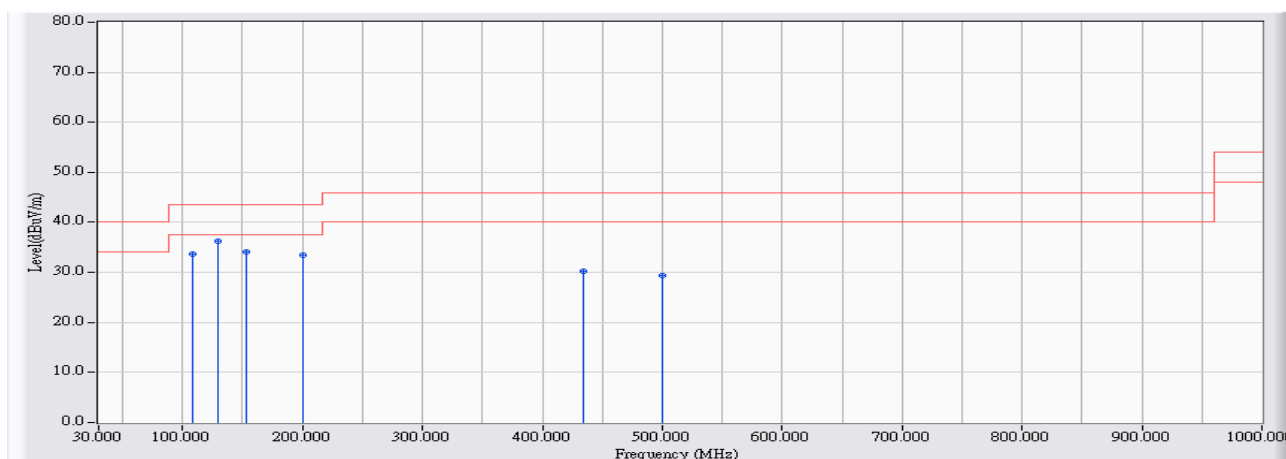


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 34.850             | -20.638                | 55.361                  | 34.723                    | -5.277         | 40.000            | QUASIPeAK     |
| 2 |   | 68.800             | -27.945                | 59.858                  | 31.913                    | -8.087         | 40.000            | QUASIPeAK     |
| 3 |   | 109.055            | -23.306                | 51.833                  | 28.526                    | -14.974        | 43.500            | QUASIPeAK     |
| 4 |   | 168.710            | -24.776                | 52.278                  | 27.502                    | -15.998        | 43.500            | QUASIPeAK     |
| 5 |   | 338.460            | -19.724                | 48.134                  | 28.410                    | -17.590        | 46.000            | QUASIPeAK     |
| 6 |   | 499.965            | -16.221                | 44.398                  | 28.176                    | -17.824        | 46.000            | QUASIPeAK     |

Note:

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

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/20 - 15:49                                                     |
| Limit : FCC_CLASS_B_03M_QP                    | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030<br>802.11n40_5230MHz |

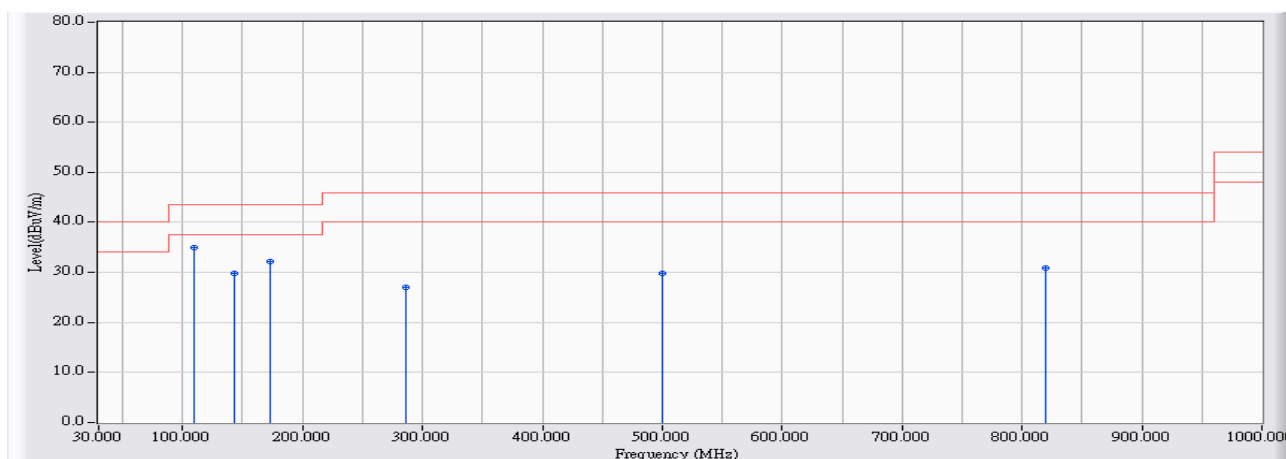


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 108.570            | -23.330                | 56.939                  | 33.608                    | -9.892         | 43.500            | QUASIPeAK     |
| 2 | * | 129.910            | -23.092                | 59.284                  | 36.192                    | -7.308         | 43.500            | QUASIPeAK     |
| 3 |   | 153.675            | -24.095                | 58.143                  | 34.048                    | -9.452         | 43.500            | QUASIPeAK     |
| 4 |   | 200.235            | -25.308                | 58.786                  | 33.479                    | -10.021        | 43.500            | QUASIPeAK     |
| 5 |   | 434.005            | -17.555                | 47.762                  | 30.206                    | -15.794        | 46.000            | QUASIPeAK     |
| 6 |   | 499.965            | -16.221                | 45.655                  | 29.433                    | -16.567        | 46.000            | QUASIPeAK     |

Note:

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

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/20 - 15:52                                                     |
| Limit : FCC_CLASS_B_03M_QP                    | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030<br>802.11n40_5230MHz |



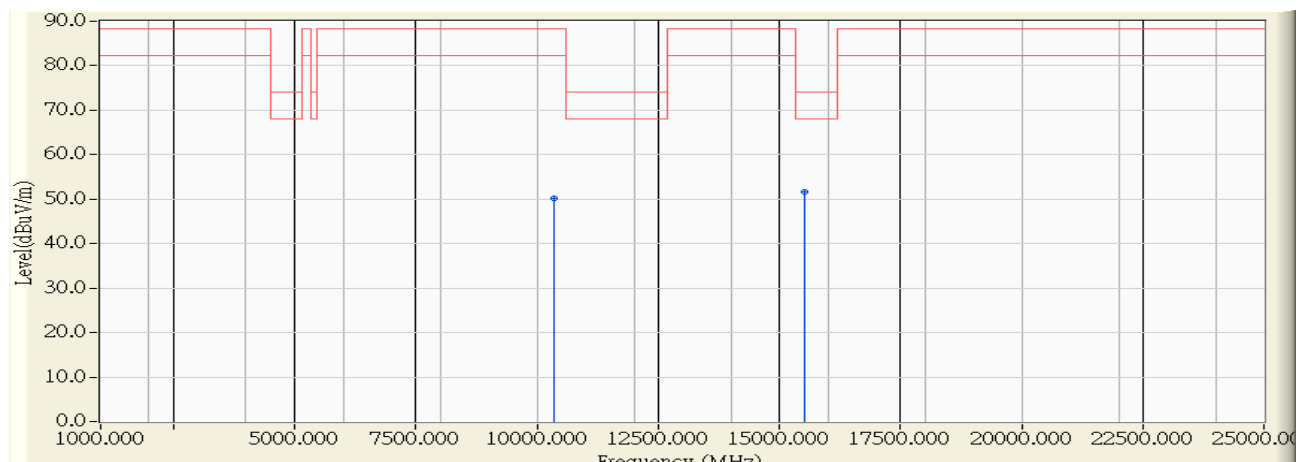
|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 109.055            | -23.306                | 58.368                  | 35.061                    | -8.439         | 43.500            | QUASIPeAK     |
| 2 |   | 143.490            | -23.598                | 53.497                  | 29.899                    | -13.601        | 43.500            | QUASIPeAK     |
| 3 |   | 172.590            | -24.942                | 57.163                  | 32.221                    | -11.279        | 43.500            | QUASIPeAK     |
| 4 |   | 286.080            | -20.904                | 47.915                  | 27.011                    | -18.989        | 46.000            | QUASIPeAK     |
| 5 |   | 499.965            | -16.221                | 45.945                  | 29.723                    | -16.277        | 46.000            | QUASIPeAK     |
| 6 |   | 820.065            | -14.334                | 45.314                  | 30.980                    | -15.020        | 46.000            | QUASIPeAK     |

Note:

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

# Harmonic & Spurious:

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 20:44                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |

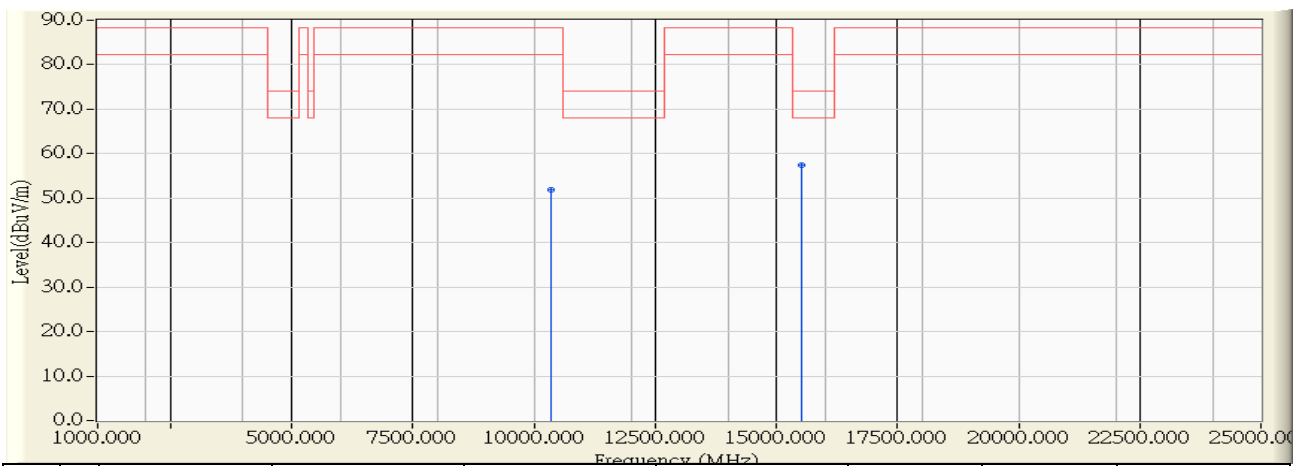


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10360.200          | 10.431                 | 39.650                  | 50.082                    | -38.218        | 88.300            | PEAK          |
| 2 | * | 15537.900          | 11.111                 | 40.590                  | 51.701                    | -22.299        | 74.000            | PEAK          |

## Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 18:47                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |

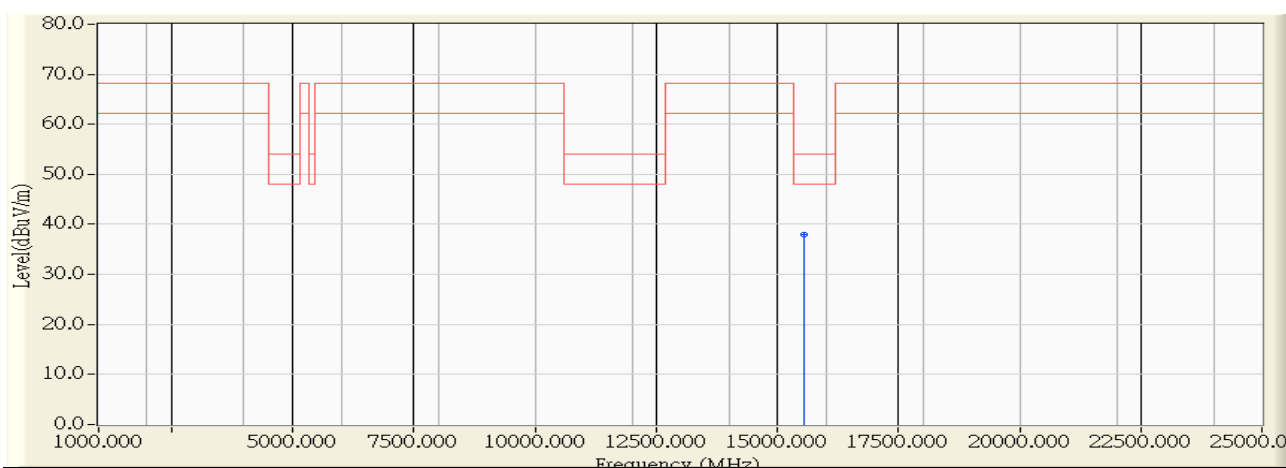


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10361.775          | 10.427                 | 41.350                  | 51.777                    | -36.523        | 88.300            | PEAK          |
| 2 | * | 15538.175          | 11.111                 | 46.250                  | 57.361                    | -16.639        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 20:35                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |

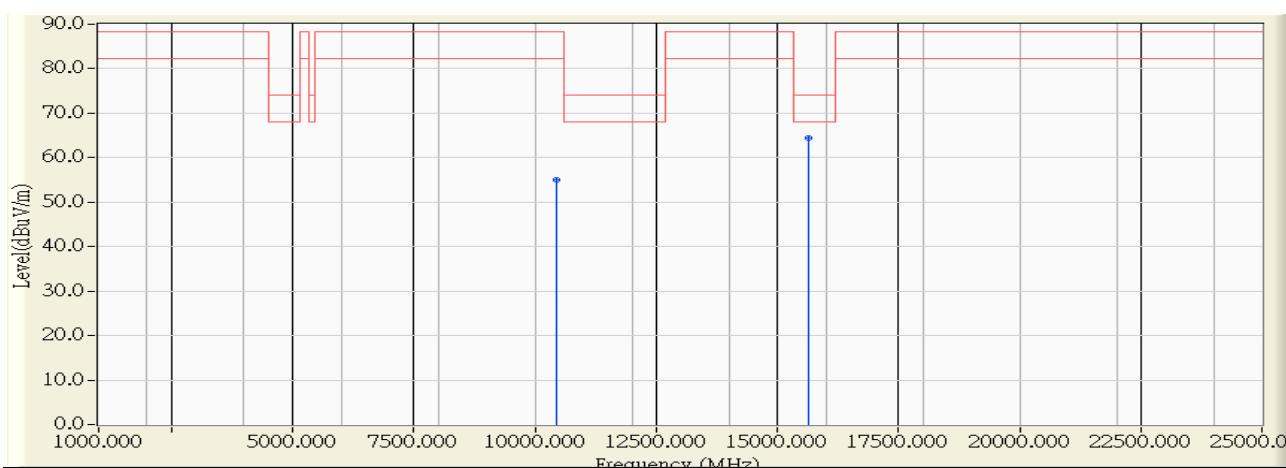


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15539.450          | 11.109                 | 26.770                  | 37.880                    | -16.120        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 17:35                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

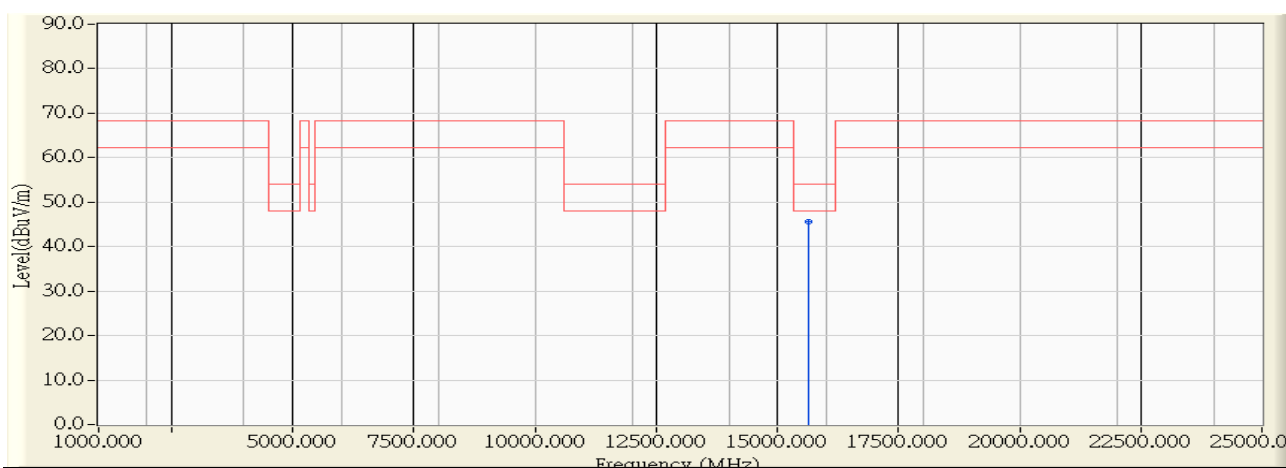


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10441.800          | 10.189                 | 44.910                  | 55.099                    | -33.201        | 88.300            | PEAK          |
| 2 | * | 15657.700          | 10.978                 | 53.470                  | 64.448                    | -9.552         | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 17:36                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

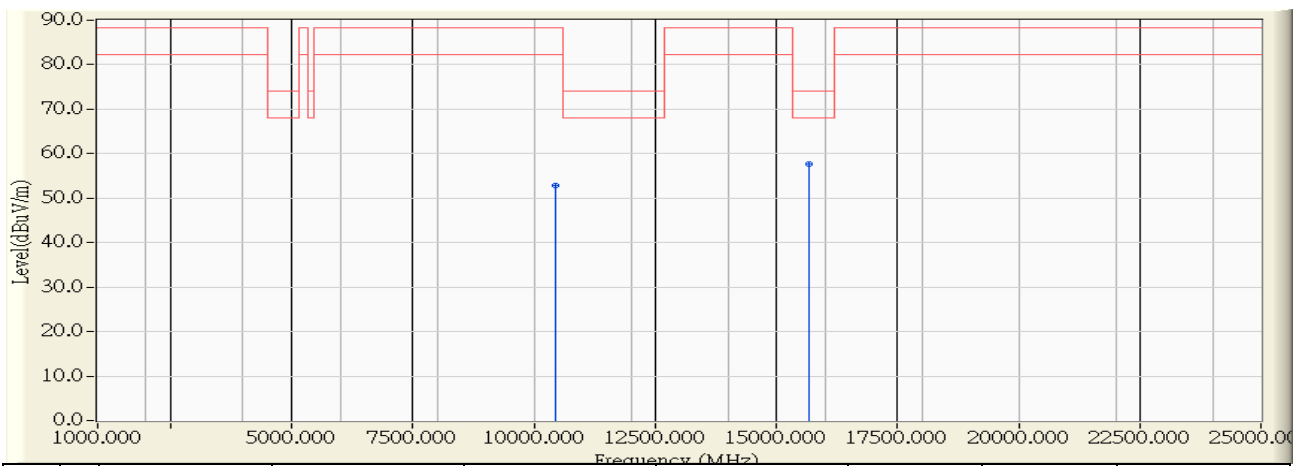


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15658.880          | 10.977                 | 34.640                  | 45.617                    | -8.383         | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 17:45                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

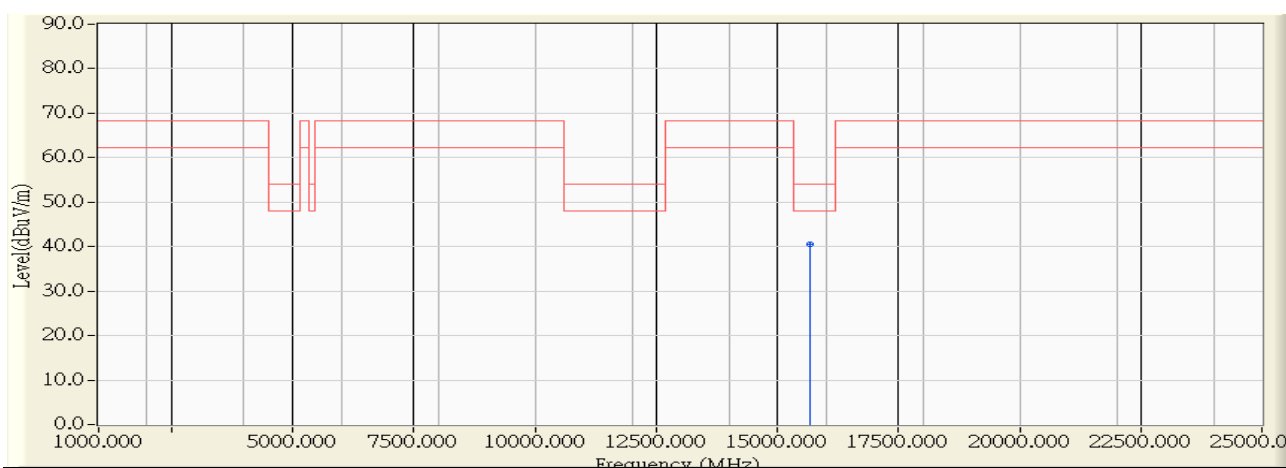


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10442.060          | 10.188                 | 42.600                  | 52.788                    | -35.512        | 88.300            | PEAK          |
| 2 | * | 15661.780          | 10.973                 | 46.770                  | 57.743                    | -16.257        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 17:46                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

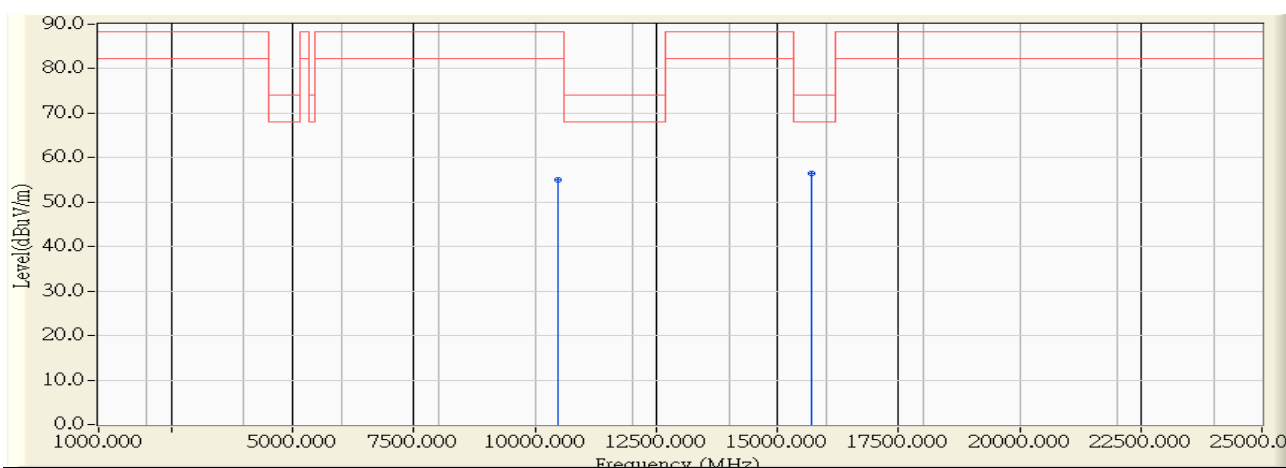


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15663.440          | 10.972                 | 29.480                  | 40.452                    | -13.548        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 20:59                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

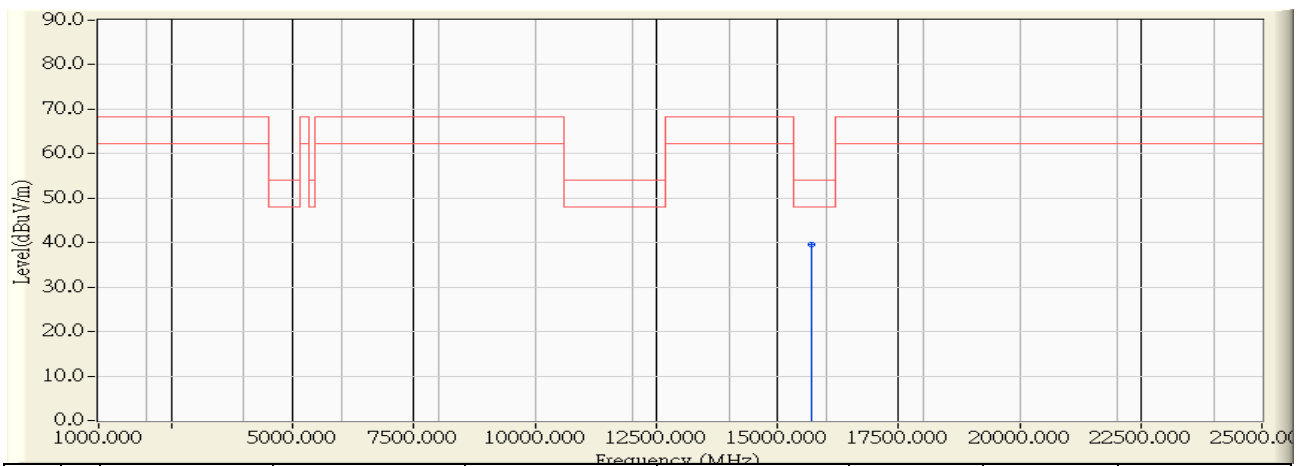


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10481.375          | 10.071                 | 44.960                  | 55.031                    | -33.269        | 88.300            | PEAK          |
| 2 | * | 15721.500          | 10.907                 | 45.480                  | 56.387                    | -17.613        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 21:00                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

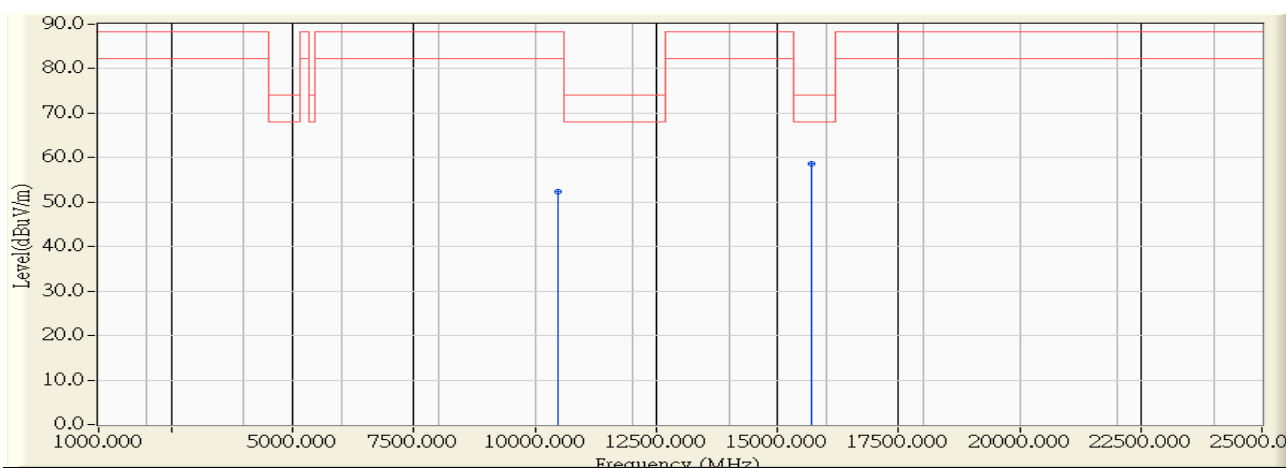


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15722.900          | 10.905                 | 28.600                  | 39.505                    | -14.495        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 21:18                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

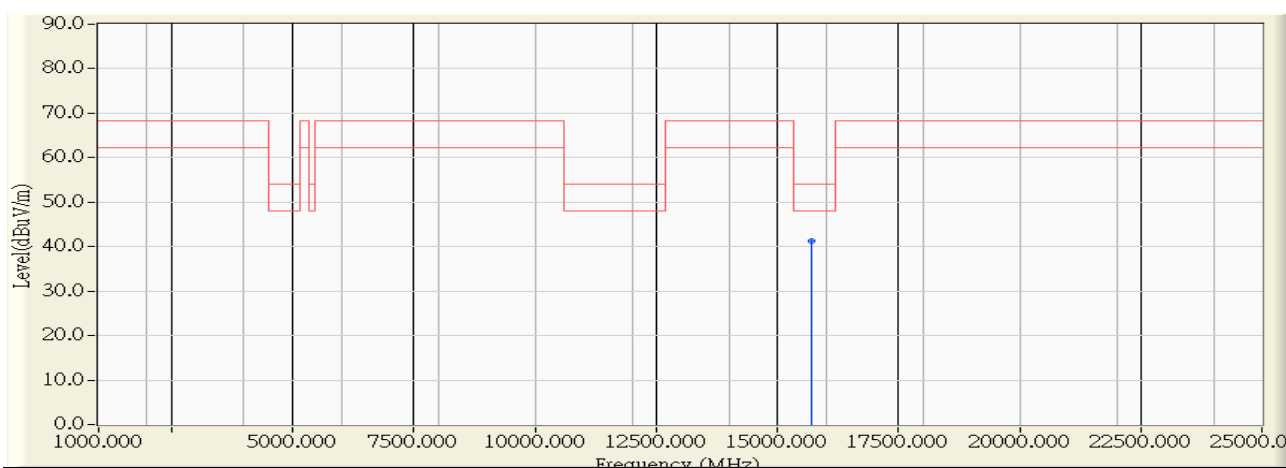


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10481.625          | 10.070                 | 42.270                  | 52.340                    | -35.960        | 88.300            | PEAK          |
| 2 | * | 15710.000          | 10.920                 | 47.800                  | 58.720                    | -15.280        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 21:31                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

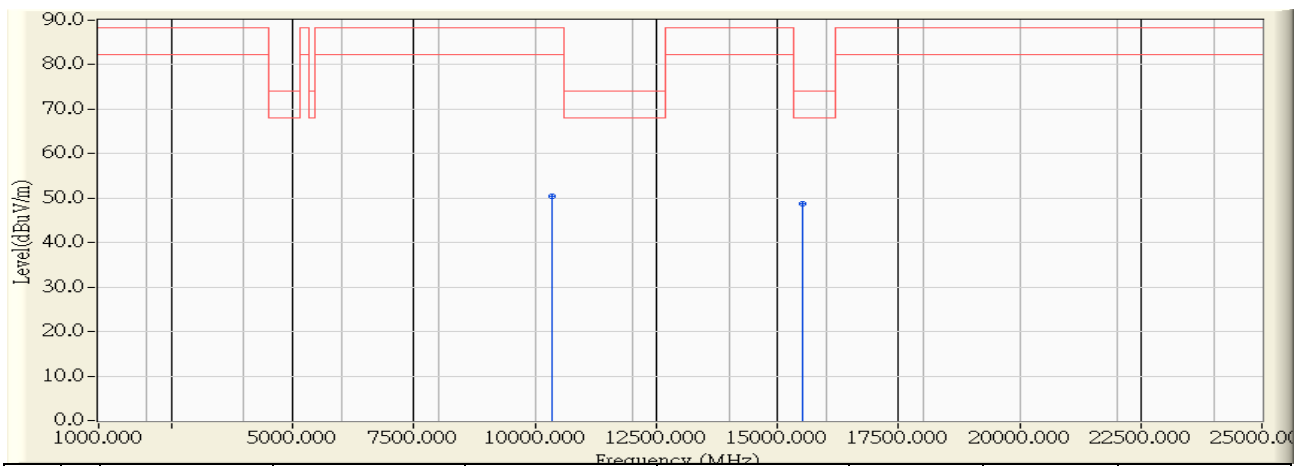


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15720.725          | 10.907                 | 30.352                  | 41.260                    | -12.740        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 22:26                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |

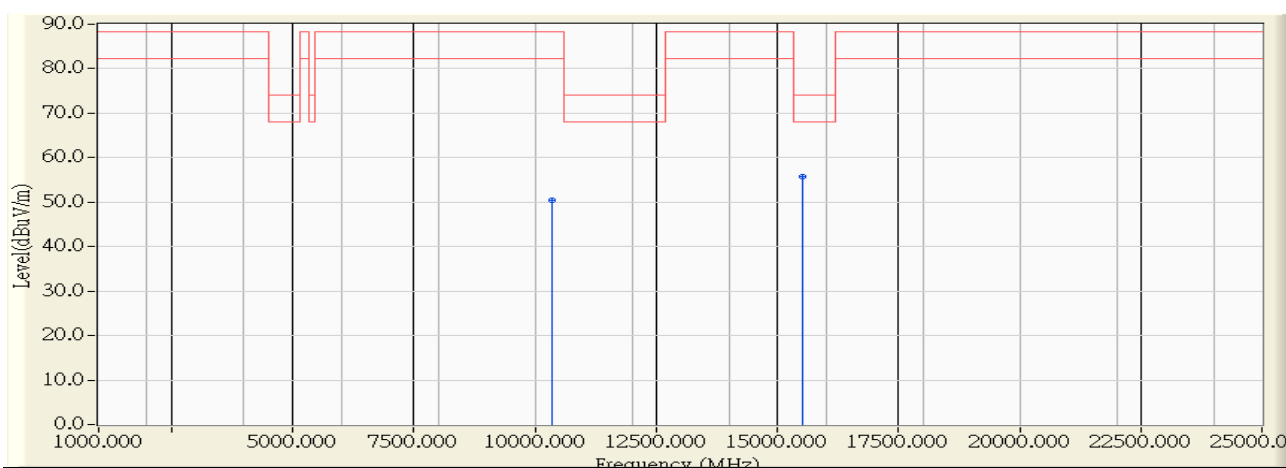


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10353.450          | 10.452                 | 39.950                  | 50.402                    | -37.898        | 88.300            | PEAK          |
| 2 | * | 15536.425          | 11.114                 | 37.720                  | 48.833                    | -25.167        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 22:13                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |

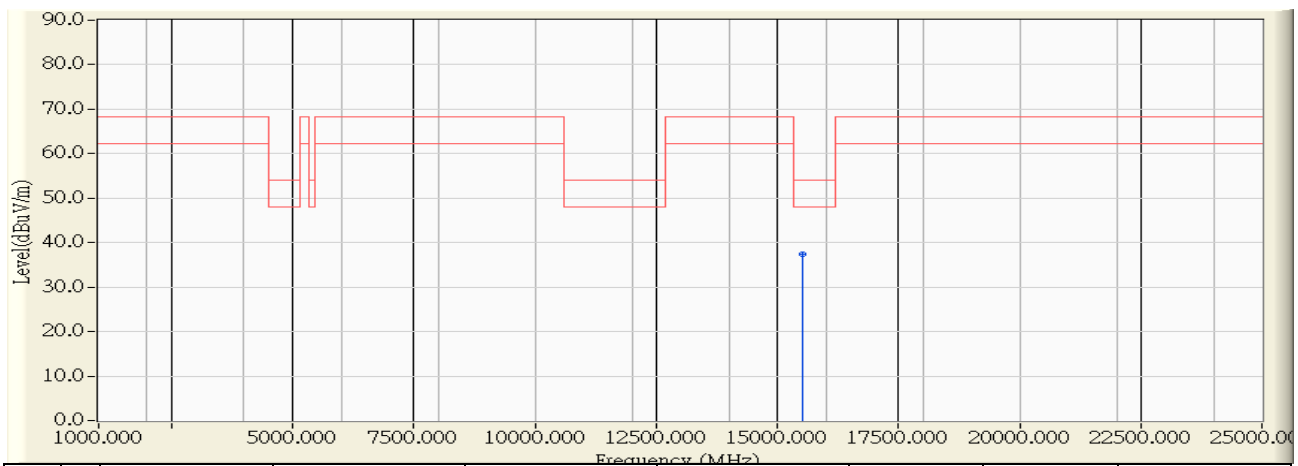


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10357.525          | 10.440                 | 39.870                  | 50.310                    | -37.990        | 88.300            | PEAK          |
| 2 | * | 15537.475          | 11.112                 | 44.680                  | 55.792                    | -18.208        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 22:14                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |

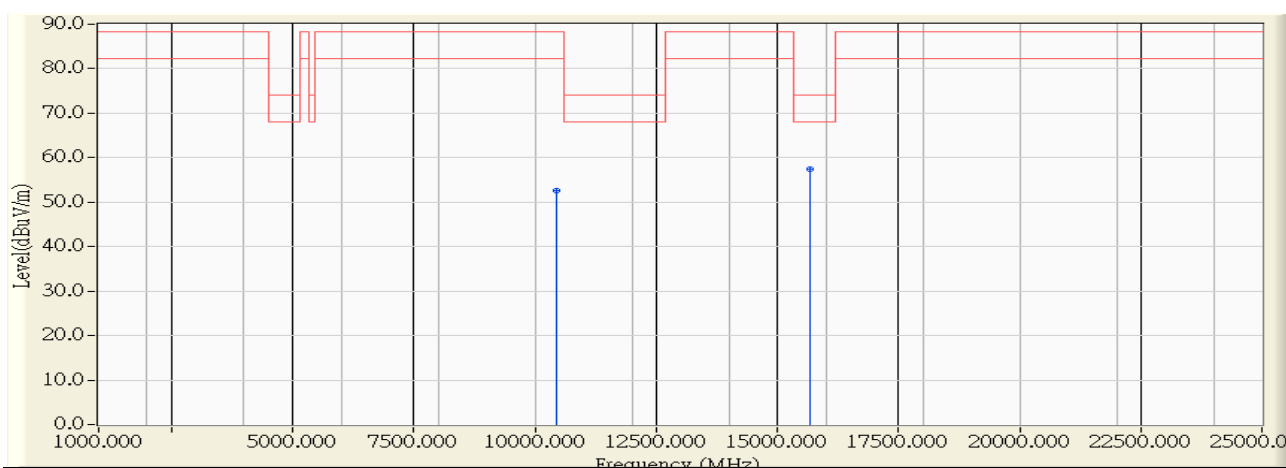


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15537.375          | 11.112                 | 26.300                  | 37.412                    | -16.588        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 22:41                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

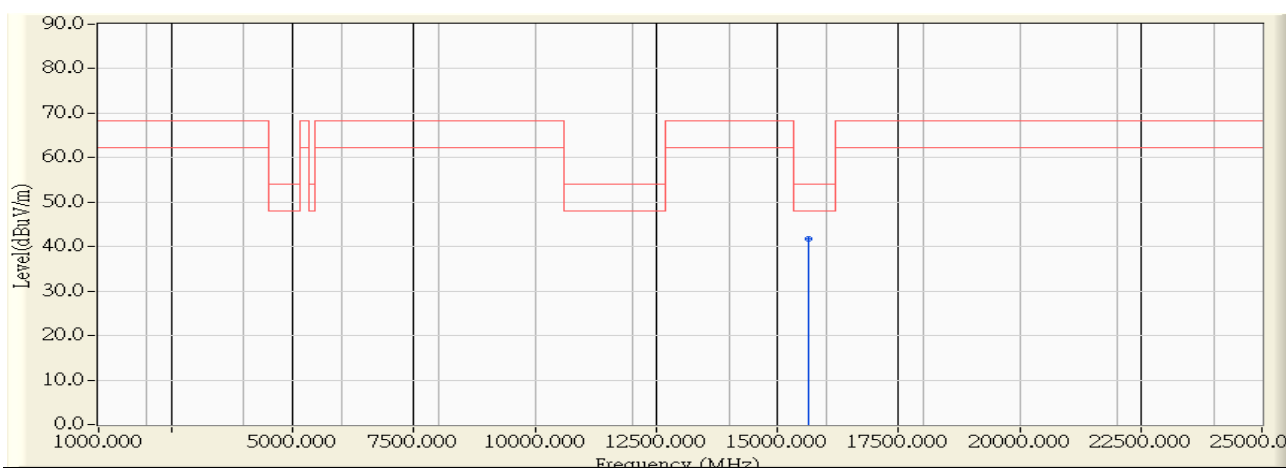


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10443.175          | 10.185                 | 42.300                  | 52.485                    | -35.815        | 88.300            | PEAK          |
| 2 | * | 15662.975          | 10.973                 | 46.340                  | 57.312                    | -16.688        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 22:41                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

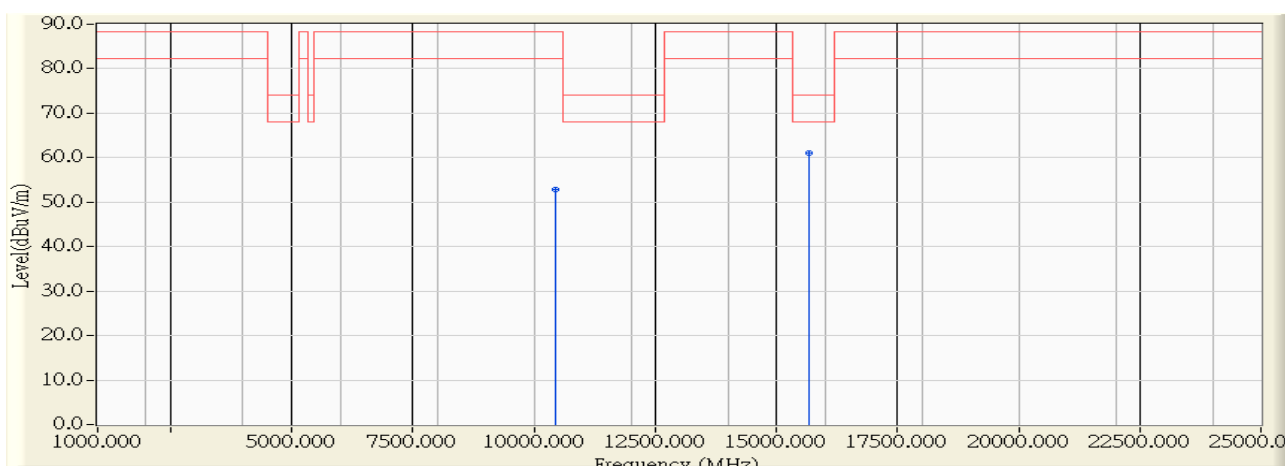


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15657.950          | 10.978                 | 30.870                  | 41.848                    | -12.152        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 23:05                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

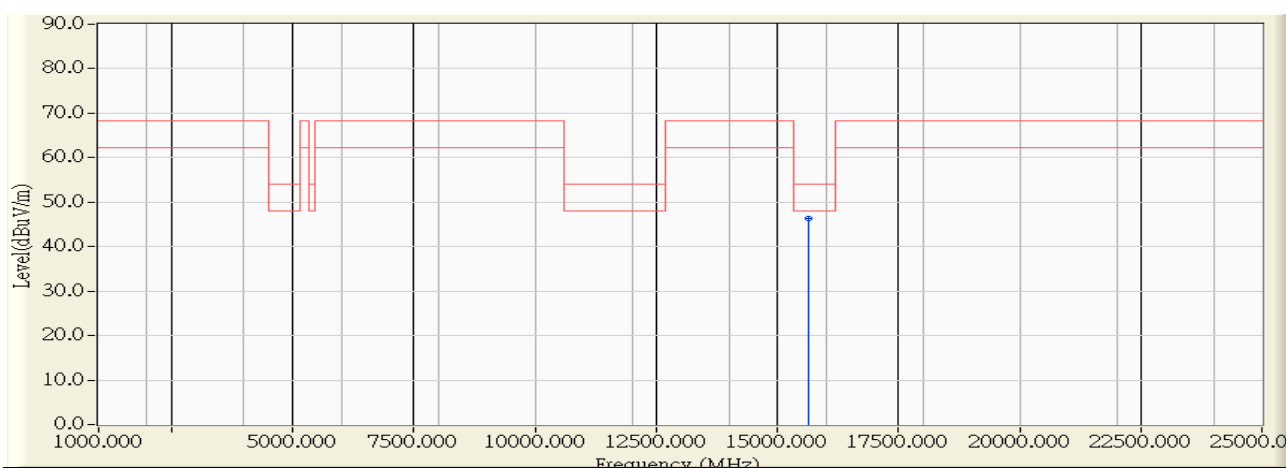


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10443.000          | 10.185                 | 42.590                  | 52.775                    | -35.525        | 88.300            | PEAK          |
| 2 | * | 15665.025          | 10.970                 | 50.030                  | 61.000                    | -13.000        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 23:06                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

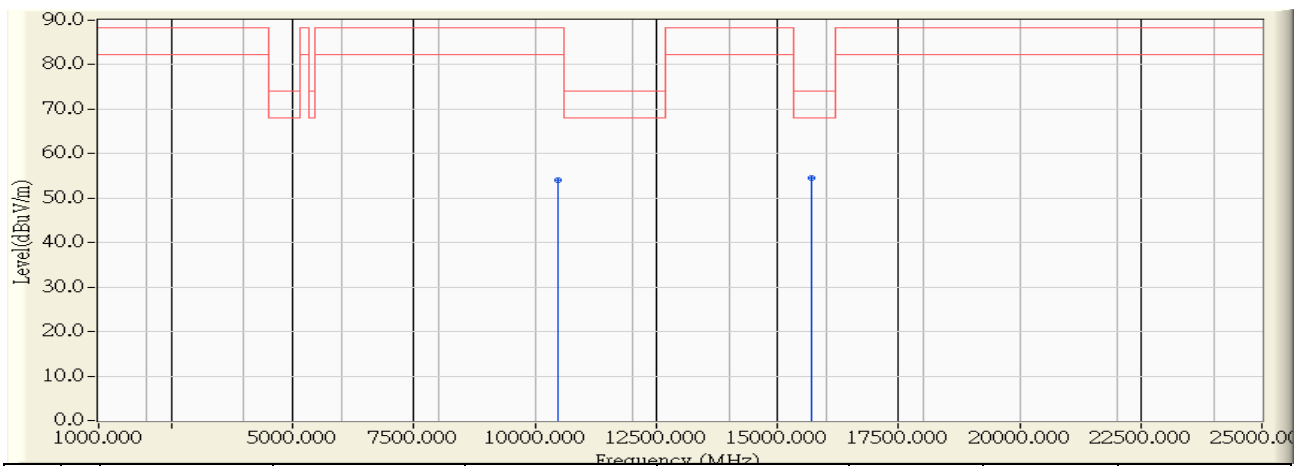


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15659.800          | 10.975                 | 35.340                  | 46.316                    | -7.684         | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 23:24                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

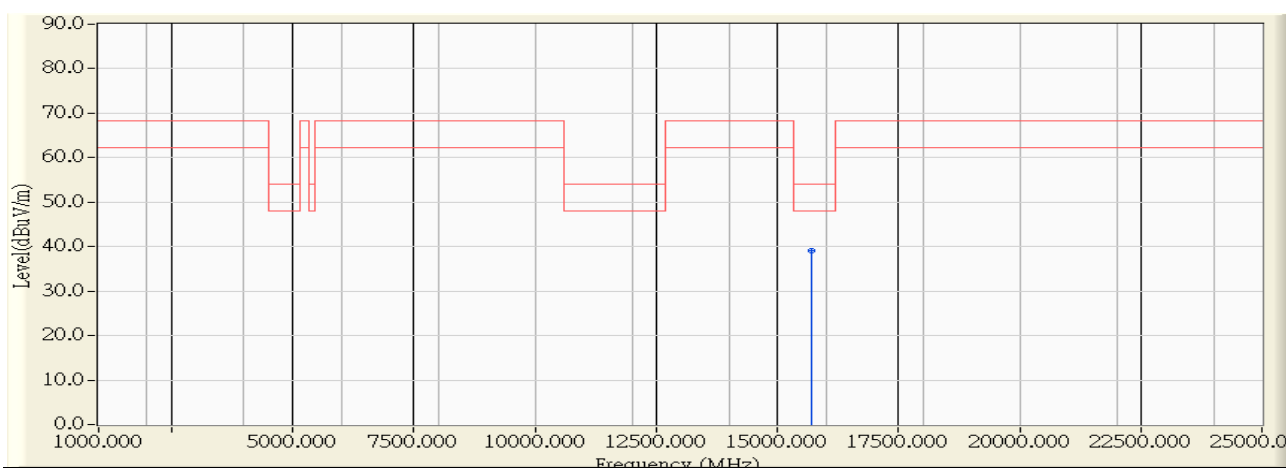


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10482.600          | 10.068                 | 43.990                  | 54.057                    | -34.243        | 88.300            | PEAK          |
| 2 | * | 15710.950          | 10.919                 | 43.680                  | 54.599                    | -19.401        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 23:25                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

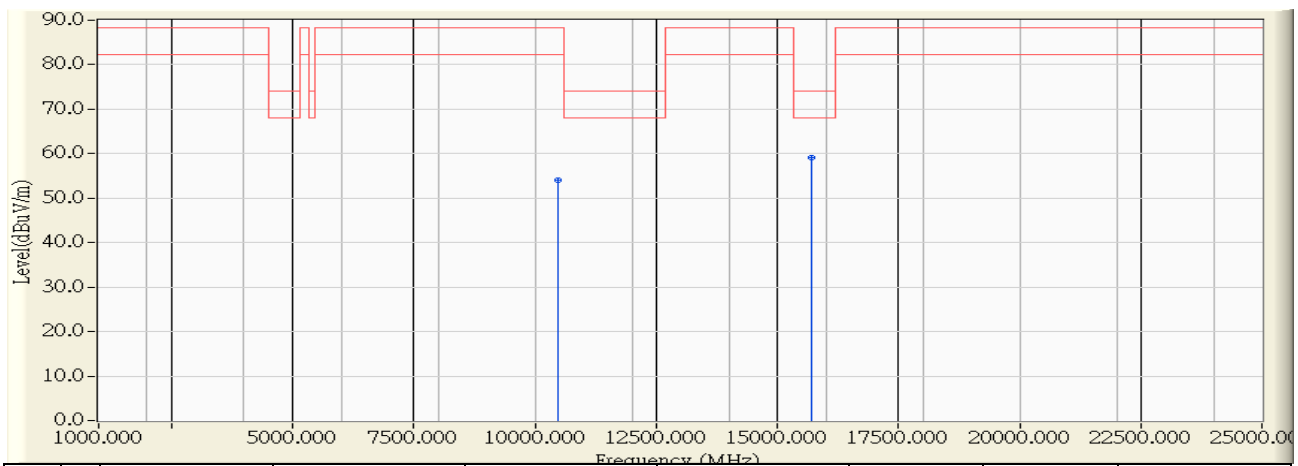


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15717.975          | 10.911                 | 28.150                  | 39.061                    | -14.939        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 23:33                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

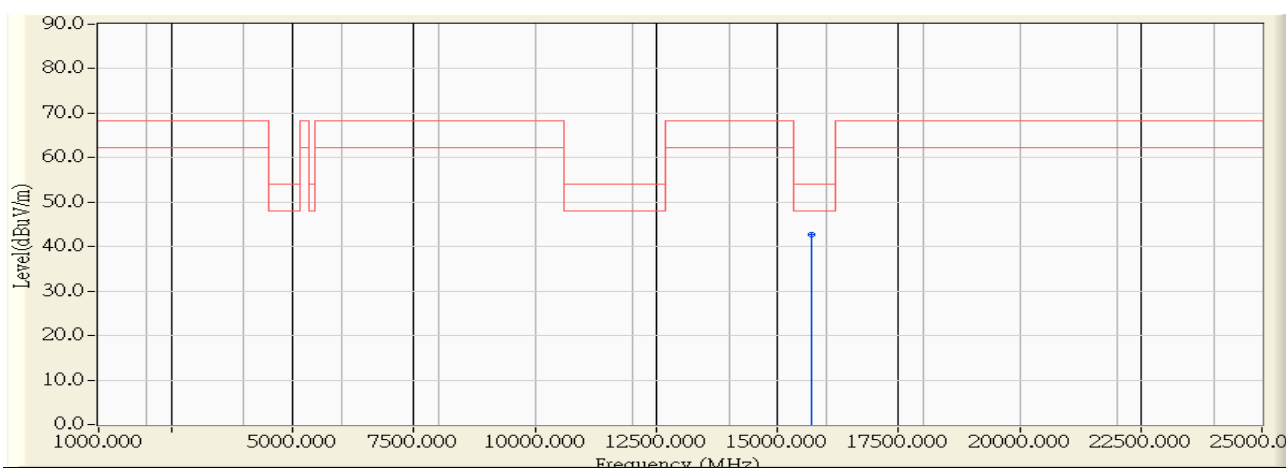


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10477.200          | 10.083                 | 43.860                  | 53.943                    | -34.357        | 88.300            | PEAK          |
| 2 | * | 15716.100          | 10.912                 | 48.220                  | 59.133                    | -14.867        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 23:34                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

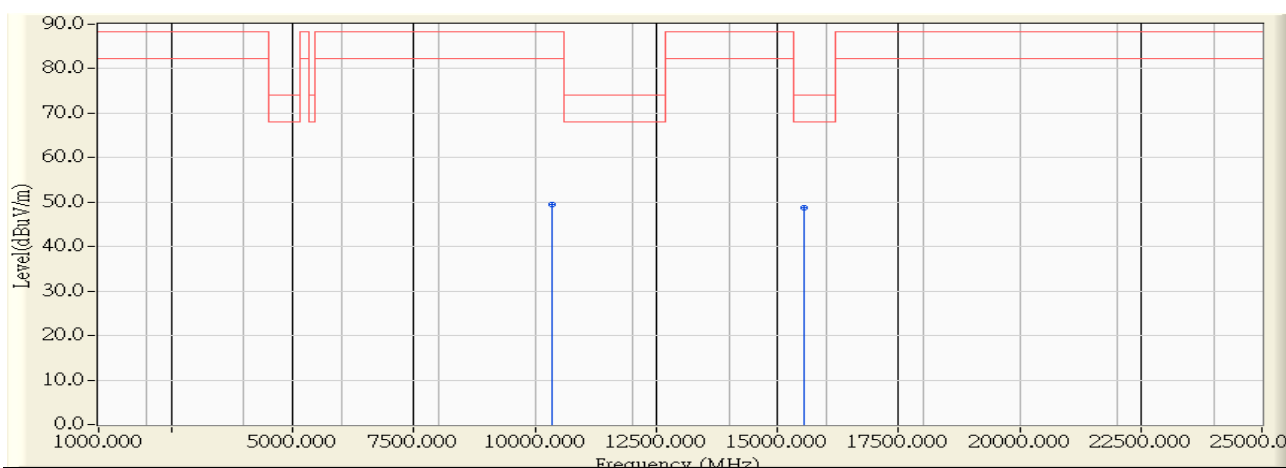


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15716.100          | 10.912                 | 31.880                  | 42.793                    | -11.207        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 23:43                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5190MHz |

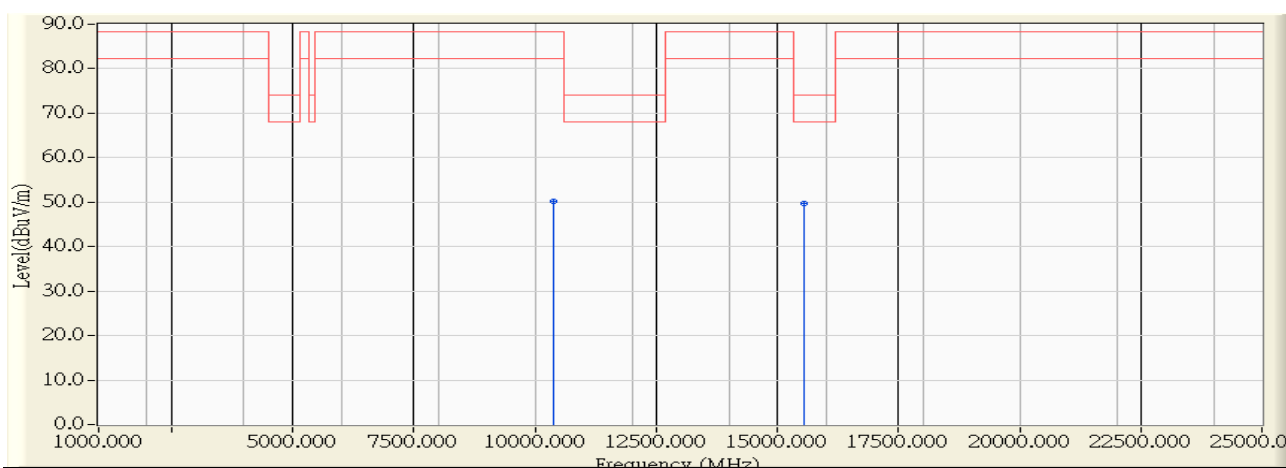


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10366.400          | 10.413                 | 38.930                  | 49.343                    | -38.957        | 88.300            | PEAK          |
| 2 | * | 15563.650          | 11.082                 | 37.660                  | 48.743                    | -25.257        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 23:55                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5190MHz |

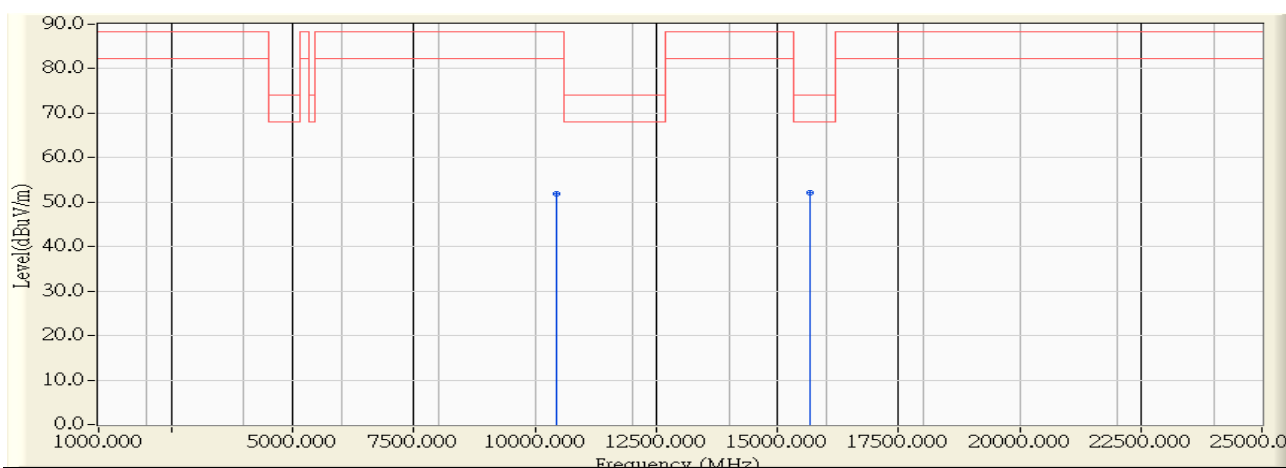


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10390.525          | 10.341                 | 39.870                  | 50.211                    | -38.089        | 88.300            | PEAK          |
| 2 | * | 15561.300          | 11.086                 | 38.700                  | 49.785                    | -24.215        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/12 - 00:04                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

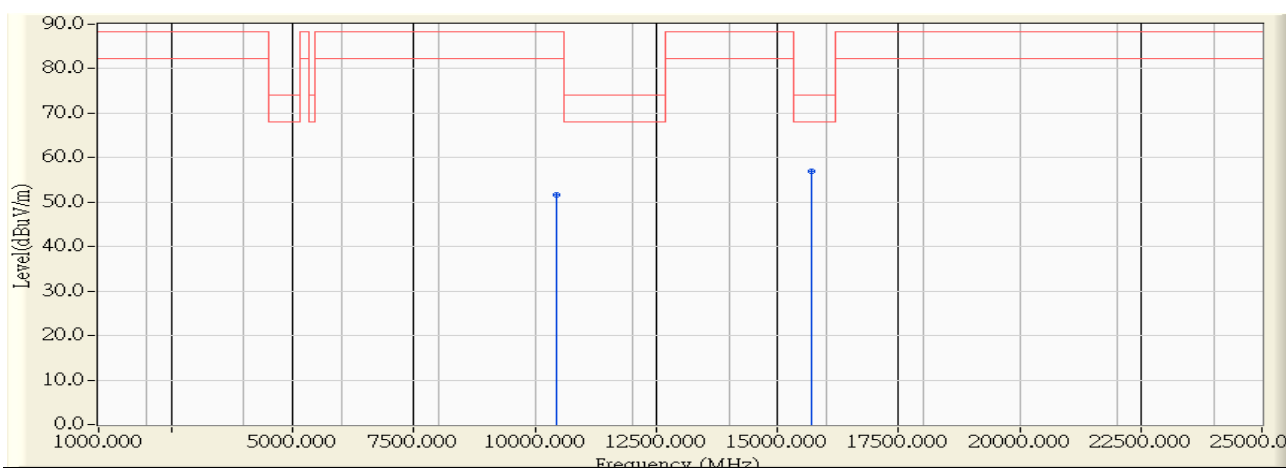


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10461.425          | 10.130                 | 41.670                  | 51.800                    | -36.500        | 88.300            | PEAK          |
| 2 | * | 15680.500          | 10.953                 | 41.150                  | 52.102                    | -21.898        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/12 - 00:09                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

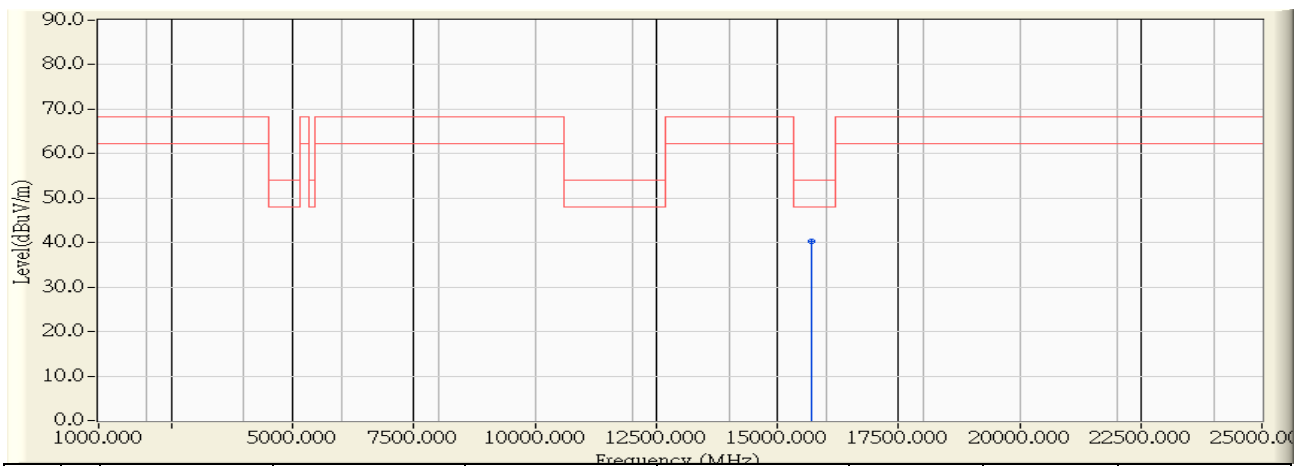


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 10458.850          | 10.137                 | 41.540                  | 51.678                    | -36.622        | 88.300            | PEAK          |
| 2 | * | 15692.850          | 10.938                 | 45.990                  | 56.929                    | -17.071        | 74.000            | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/12 - 00:09                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 15693.200          | 10.938                 | 29.470                  | 40.408                    | -13.592        | 54.000            | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

## 7. Band Edge

### 7.1. Test Equipment

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

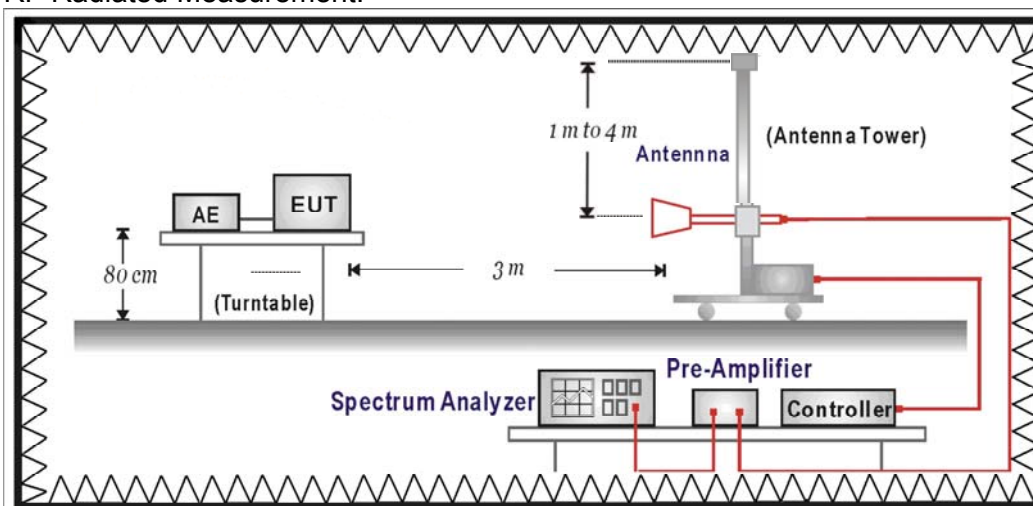
Band Edge / CB1

| Instrument                          | Manufacturer | Model No.    | Serial No  | Next Cal. Date |
|-------------------------------------|--------------|--------------|------------|----------------|
| Double Ridged Guide<br>Horn Antenna | Schwarzback  | BBHA 9120    | D743       | 2015/02/12     |
| Spectrum Analyzer                   | Agilent      | E4440A       | MY46187335 | 2015/01/12     |
| k Type Cable                        | Huber Suhner | Sucoflex 102 | 25623/2    | 2015/02/10     |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 7.2. Test Setup

RF Radiated Measurement:



### 7.3. Limits

#### ➤ General Radiated Emission Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

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

Remark:

- RF Voltage (dBuV) = 20 log RF Voltage (uV)
- In the Above Table, the tighter limit applies at the band edges.
- Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### ➤ Unwanted Emission out of the restricted bands Limits

| FCC Part 15 Subpart E Paragraph 15.407(b) Limits |                     |                                          |
|--------------------------------------------------|---------------------|------------------------------------------|
| Frequency<br>(MHz)                               | EIRP Limit<br>(dBm) | Equivalent Field Strength<br>(dBuV/m@3m) |
| 5150~5250                                        | -27                 | 68.3                                     |
| 5250~5350                                        | -27                 | 68.3                                     |
| 5470~5725                                        | -27                 | 68.3                                     |
| 5725~5825                                        | -27 (Note1)         | 68.3                                     |
|                                                  | -17 (Note2)         | 78.3                                     |

Remark:

- For frequencies more than 10 MHz above or below the band edges.
- For frequency range from the band edges to 10 MHz above or below the band edges.
- $$uV/m = \frac{1000000\sqrt{30 \times EIRP}}{3}, \text{ RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)}$$

#### **7.4. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

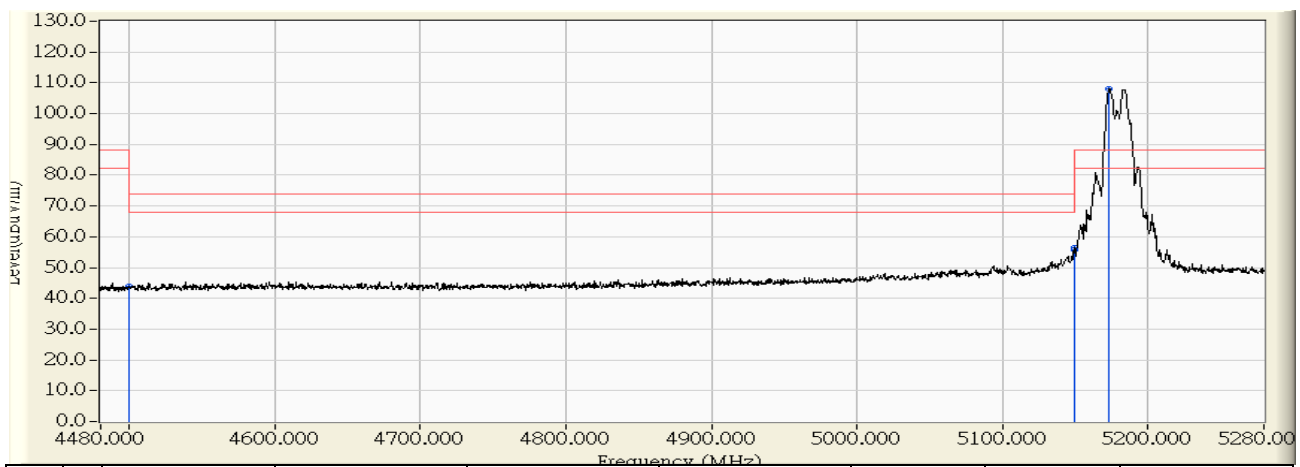
#### **7.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 3.65\text{dB}$

## 7.6. Test Result

Radiated is defined as

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 15:47                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |

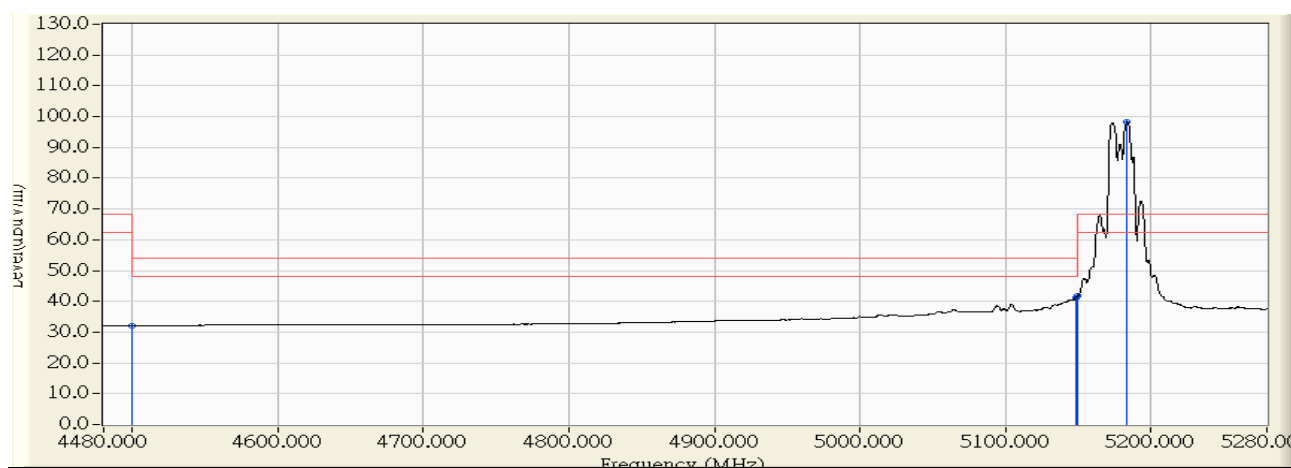


|   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | 4500.000           | -1.406                 | 45.296                  | 43.891                    | -30.109        | 74.000            | PEAK          |
| 2 | 5149.600           | 0.972                  | 55.652                  | 56.624                    | -17.376        | 74.000            | PEAK          |
| 3 | 5150.000           | 0.975                  | 54.761                  | 55.736                    | -18.264        | 74.000            | PEAK          |
| 4 | * 5173.600         | 1.158                  | 106.911                 | 108.069                   | 19.769         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 15:49                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |

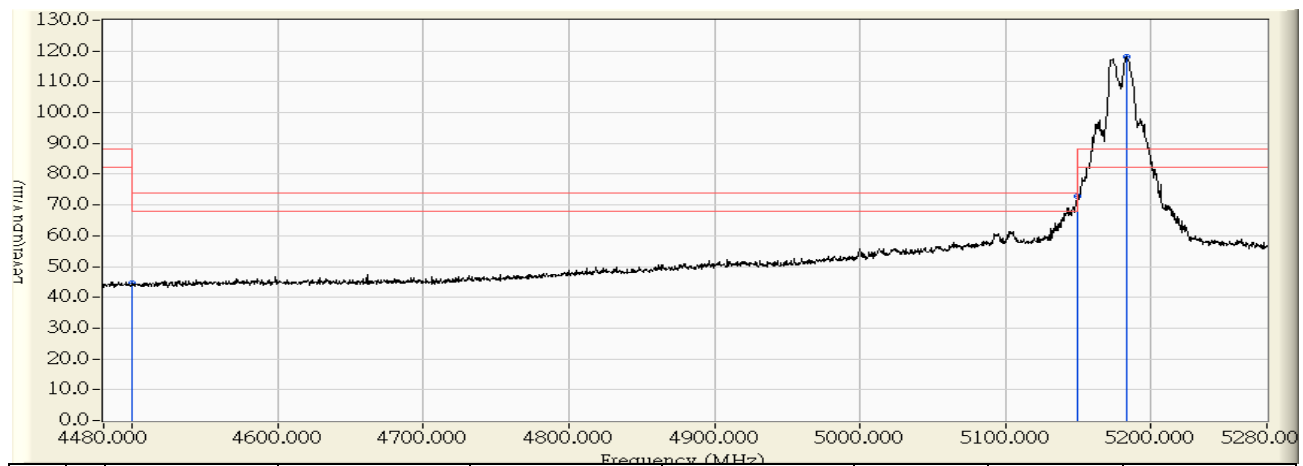


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.397                  | 31.992                    | -22.008        | 54.000            | AVERAGE       |
| 2 |   | 5148.400           | 0.963                  | 40.177                  | 41.140                    | -12.860        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 40.735                  | 41.710                    | -12.290        | 54.000            | AVERAGE       |
| 4 | * | 5184.000           | 1.239                  | 96.953                  | 98.192                    | 29.892         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 15:41                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.948                  | 44.543                    | -29.457        | 74.000            | PEAK          |
| 2 |   | 5149.600           | 0.972                  | 71.829                  | 72.801                    | -1.199         | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 72.019                  | 72.994                    | -1.006         | 74.000            | PEAK          |
| 4 | * | 5183.600           | 1.236                  | 116.774                 | 118.010                   | 29.710         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 15:38                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5180MHz |

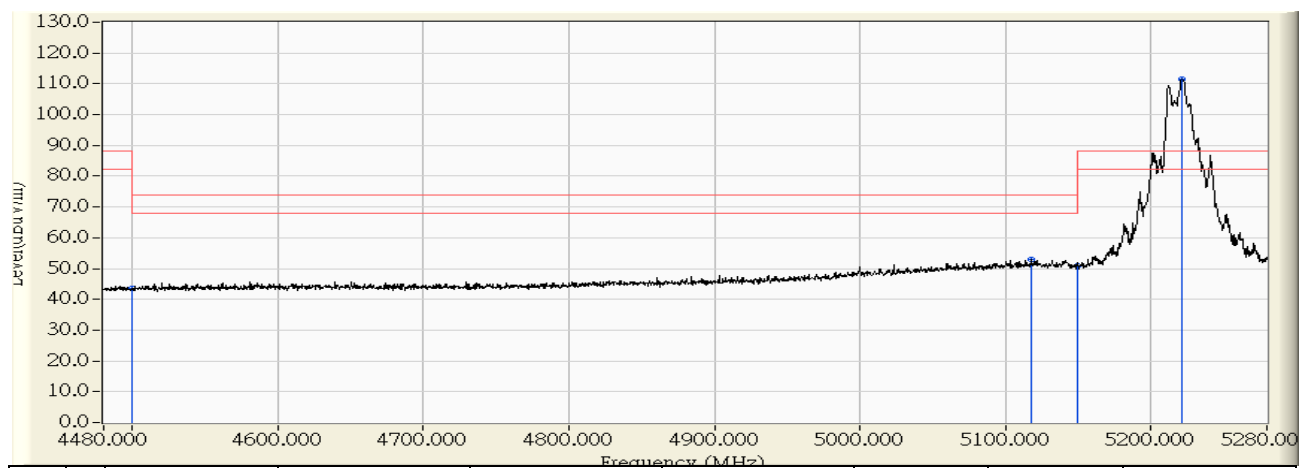


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.529                  | 32.124                    | -21.876        | 54.000            | AVERAGE       |
| 2 |   | 5148.000           | 0.959                  | 50.303                  | 51.263                    | -2.737         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 51.672                  | 52.647                    | -1.353         | 54.000            | AVERAGE       |
| 4 | * | 5183.600           | 1.236                  | 106.068                 | 107.304                   | 39.004         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 16:06                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

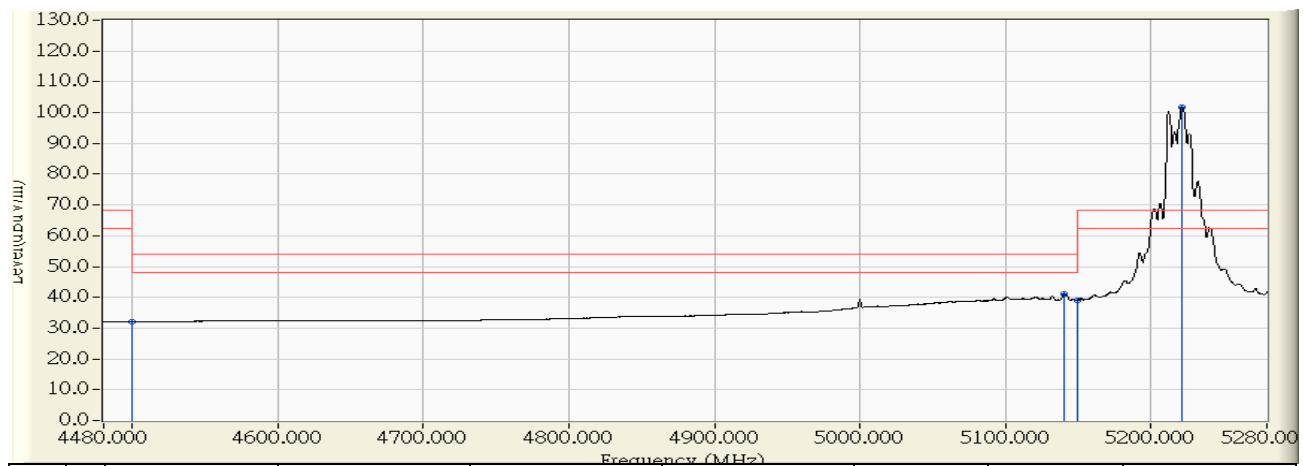


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 44.837                  | 43.432                    | -30.568        | 74.000            | PEAK          |
| 2 |   | 5117.600           | 0.723                  | 52.256                  | 52.980                    | -21.020        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 50.078                  | 51.053                    | -22.947        | 74.000            | PEAK          |
| 4 | * | 5221.200           | 1.528                  | 110.017                 | 111.545                   | 23.245         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 16:08                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

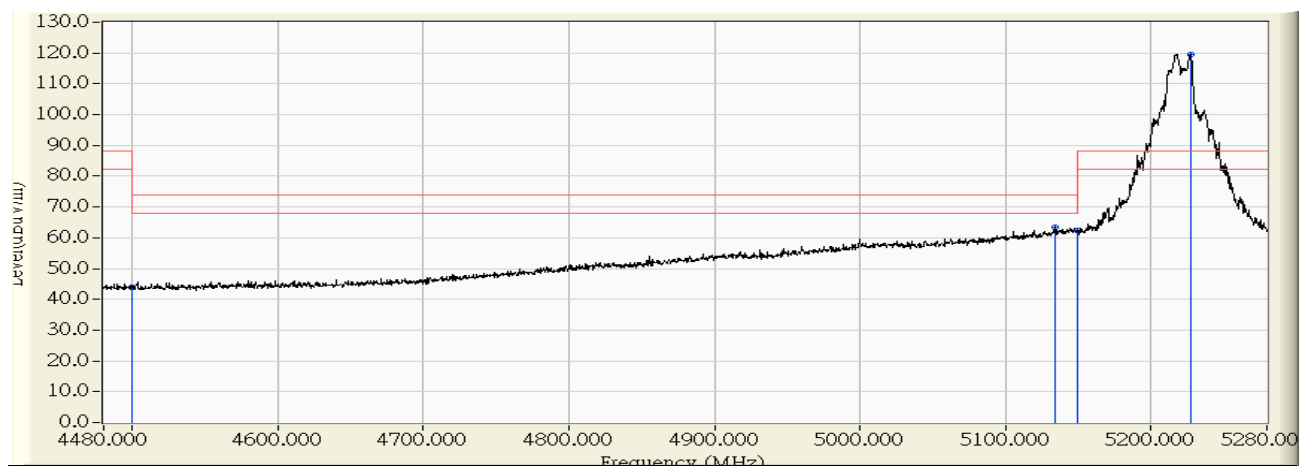


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.403                  | 31.998                    | -22.002        | 54.000            | AVERAGE       |
| 2 |   | 5140.400           | 0.901                  | 40.317                  | 41.218                    | -12.782        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 38.103                  | 39.078                    | -14.922        | 54.000            | AVERAGE       |
| 4 | * | 5222.000           | 1.534                  | 100.361                 | 101.895                   | 33.595         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 15:59                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

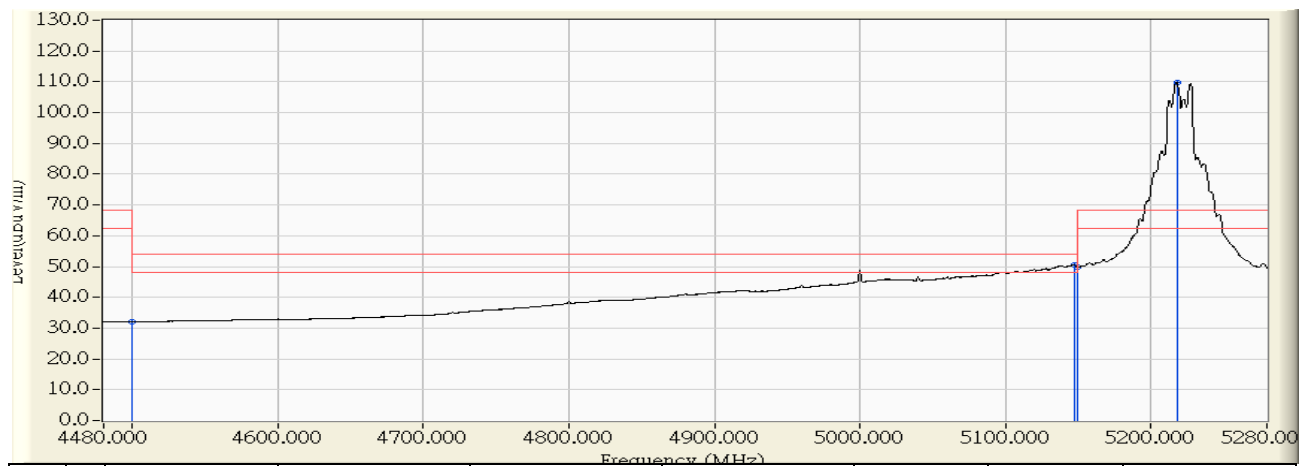


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.420                  | 44.015                    | -29.985        | 74.000            | PEAK          |
| 2 |   | 5134.000           | 0.852                  | 62.538                  | 63.389                    | -10.611        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 61.585                  | 62.560                    | -11.440        | 74.000            | PEAK          |
| 4 | * | 5227.200           | 1.574                  | 117.976                 | 119.550                   | 31.250         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 15:58                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5220MHz |

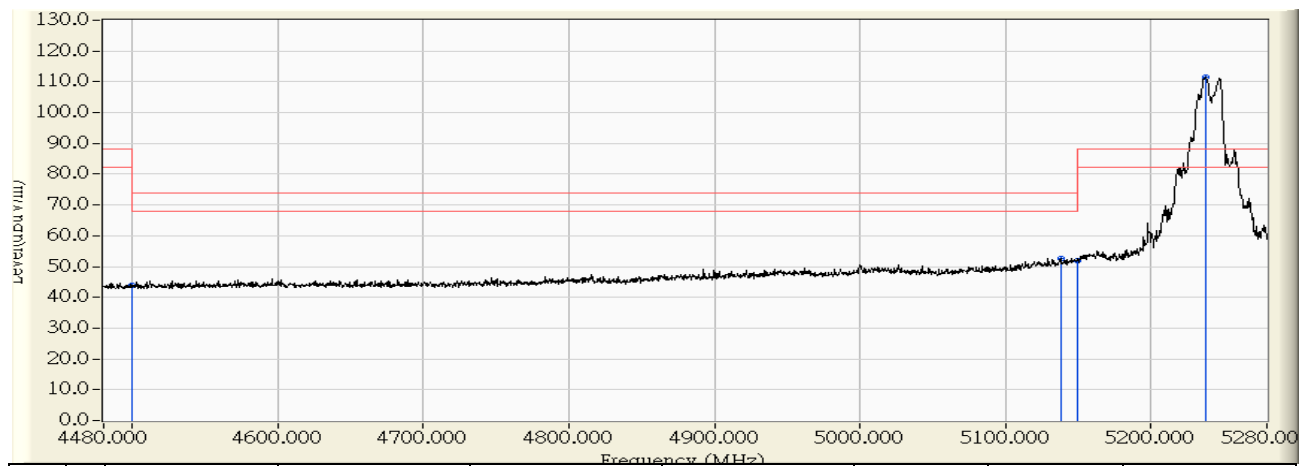


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.474                  | 32.069                    | -21.931        | 54.000            | AVERAGE       |
| 2 |   | 5147.200           | 0.954                  | 49.717                  | 50.671                    | -3.329         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 48.717                  | 49.692                    | -4.308         | 54.000            | AVERAGE       |
| 4 | * | 5218.000           | 1.502                  | 108.166                 | 109.669                   | 41.369         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 16:25                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

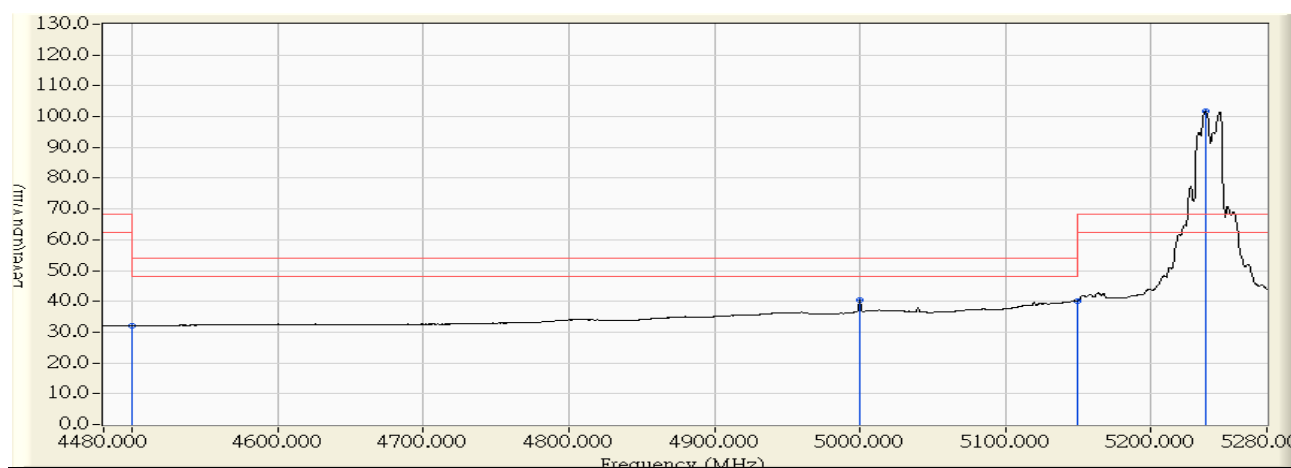


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.300                  | 43.895                    | -30.105        | 74.000            | PEAK          |
| 2 |   | 5138.000           | 0.882                  | 51.649                  | 52.531                    | -21.469        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 50.800                  | 51.775                    | -22.225        | 74.000            | PEAK          |
| 4 | * | 5237.600           | 1.654                  | 109.920                 | 111.575                   | 23.275         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 16:27                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

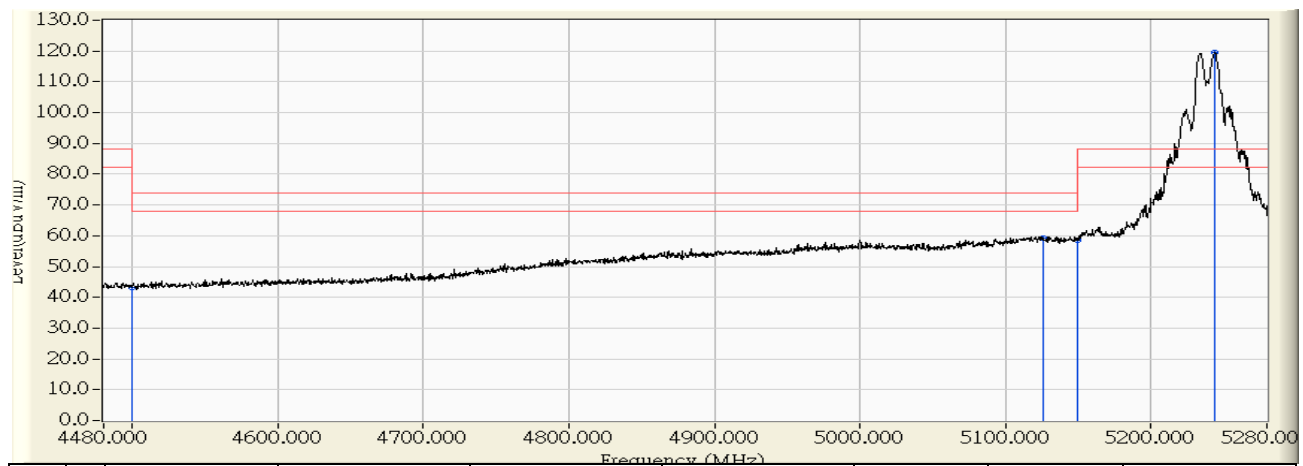


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.445                  | 32.040                    | -21.960        | 54.000            | AVERAGE       |
| 2 |   | 5000.000           | -0.168                 | 40.624                  | 40.455                    | -13.545        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 39.257                  | 40.232                    | -13.768        | 54.000            | AVERAGE       |
| 4 | * | 5238.000           | 1.657                  | 100.010                 | 101.668                   | 33.368         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 16:20                                                     |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

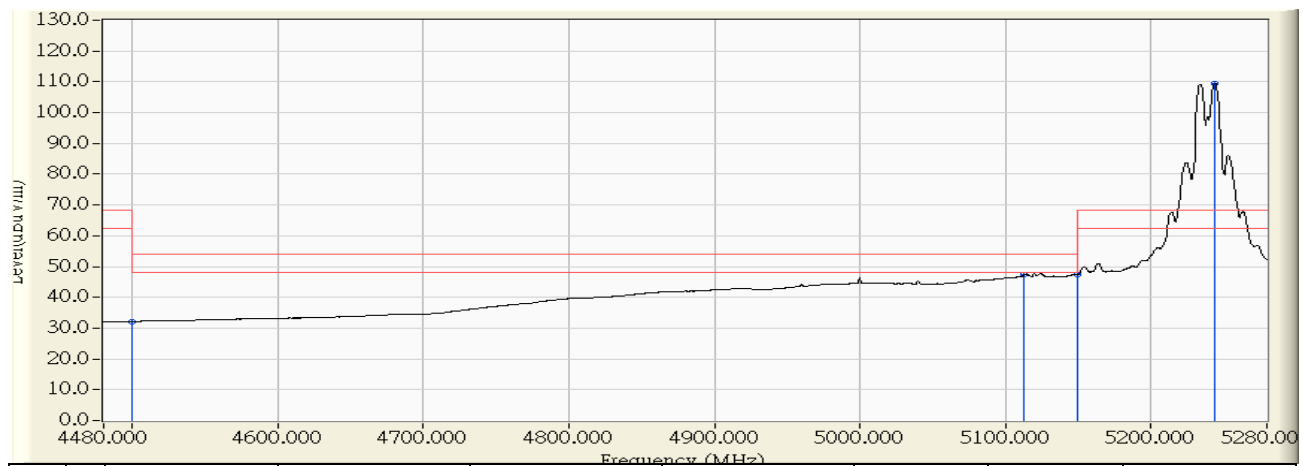


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 44.738                  | 43.333                    | -30.667        | 74.000            | PEAK          |
| 2 |   | 5126.000           | 0.789                  | 58.537                  | 59.326                    | -14.674        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 57.677                  | 58.652                    | -15.348        | 74.000            | PEAK          |
| 4 | * | 5244.000           | 1.704                  | 117.909                 | 119.613                   | 31.313         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 16:19                                                     |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                    |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                          |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11a_5240MHz |

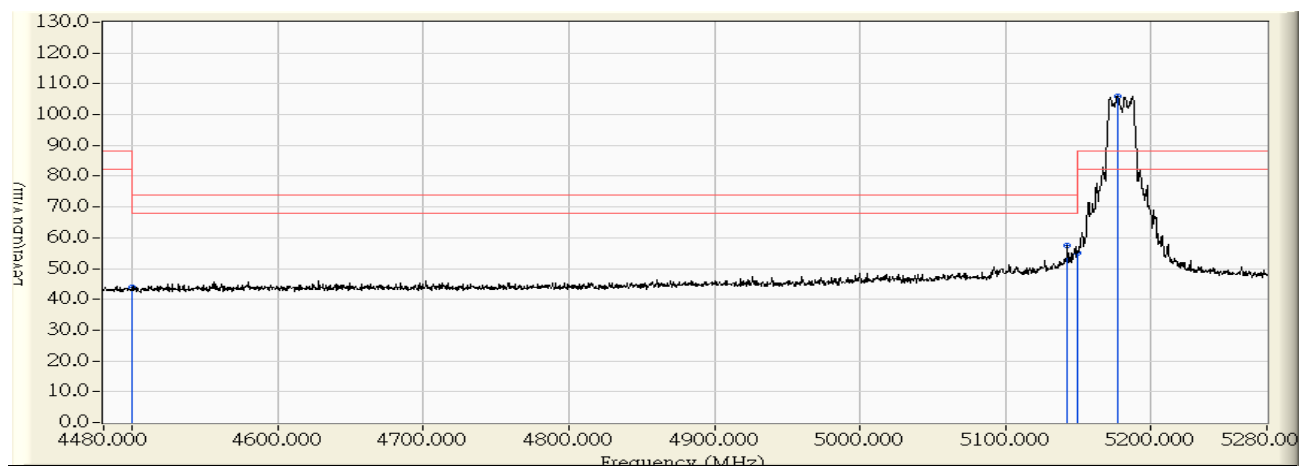


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.584                  | 32.179                    | -21.821        | 54.000            | AVERAGE       |
| 2 |   | 5113.200           | 0.690                  | 46.745                  | 47.435                    | -6.565         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 46.294                  | 47.269                    | -6.731         | 54.000            | AVERAGE       |
| 4 | * | 5244.400           | 1.708                  | 107.825                 | 109.532                   | 41.232         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 16:43                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.218                  | 43.813                    | -30.187        | 74.000            | PEAK          |
| 2 |   | 5142.800           | 0.919                  | 56.432                  | 57.352                    | -16.648        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 53.985                  | 54.960                    | -19.040        | 74.000            | PEAK          |
| 4 | * | 5177.600           | 1.189                  | 104.821                 | 106.010                   | 17.710         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 16:45                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |

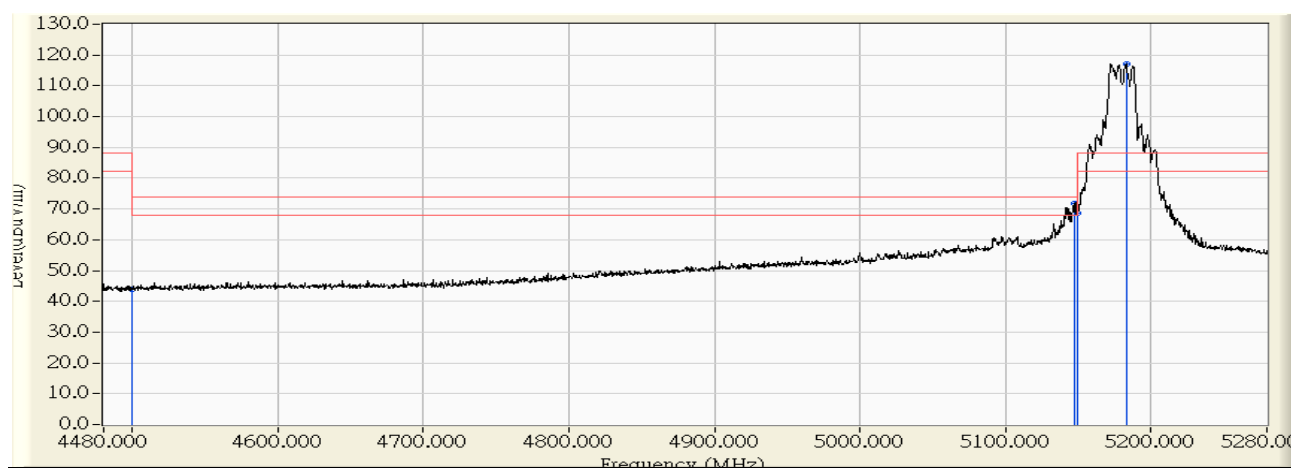


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.465                  | 32.060                    | -21.940        | 54.000            | AVERAGE       |
| 2 |   | 5146.400           | 0.947                  | 39.926                  | 40.873                    | -13.127        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 40.632                  | 41.607                    | -12.393        | 54.000            | AVERAGE       |
| 4 | * | 5177.600           | 1.189                  | 94.551                  | 95.740                    | 27.440         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 16:38                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.458                  | 44.053                    | -29.947        | 74.000            | PEAK          |
| 2 |   | 5147.200           | 0.954                  | 70.852                  | 71.806                    | -2.194         | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 67.662                  | 68.637                    | -5.363         | 74.000            | PEAK          |
| 4 | * | 5183.200           | 1.233                  | 115.806                 | 117.039                   | 28.739         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 16:34                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5180MHz |

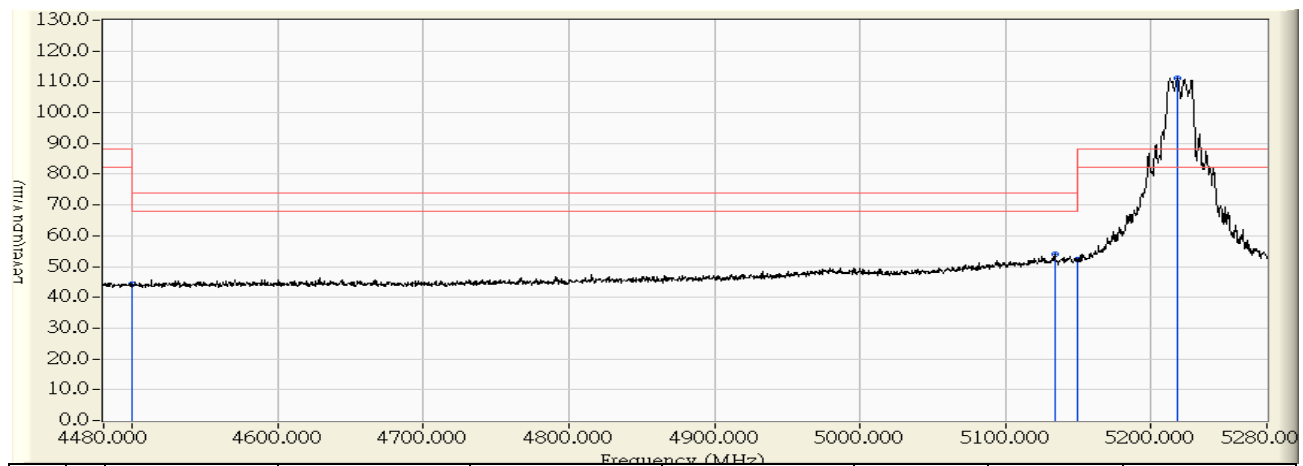


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.597                  | 32.192                    | -21.808        | 54.000            | AVERAGE       |
| 2 |   | 5148.400           | 0.963                  | 51.830                  | 52.793                    | -1.207         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 51.685                  | 52.660                    | -1.340         | 54.000            | AVERAGE       |
| 4 | * | 5183.200           | 1.233                  | 105.189                 | 106.422                   | 38.122         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 17:06                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

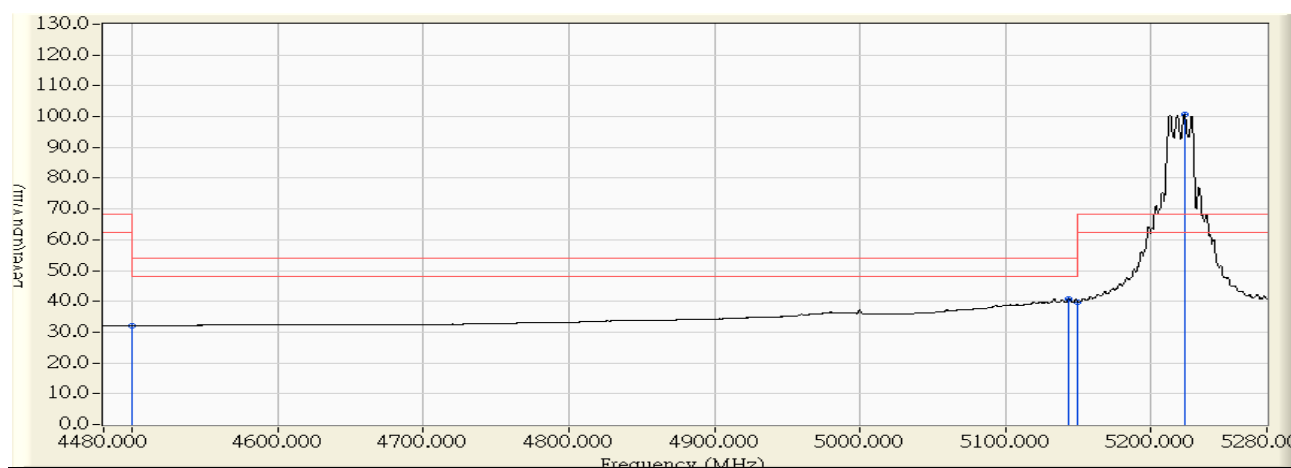


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.729                  | 44.324                    | -29.676        | 74.000            | PEAK          |
| 2 |   | 5134.000           | 0.852                  | 53.249                  | 54.100                    | -19.900        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 51.161                  | 52.136                    | -21.864        | 74.000            | PEAK          |
| 4 | * | 5218.400           | 1.505                  | 109.791                 | 111.297                   | 22.997         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 17:08                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

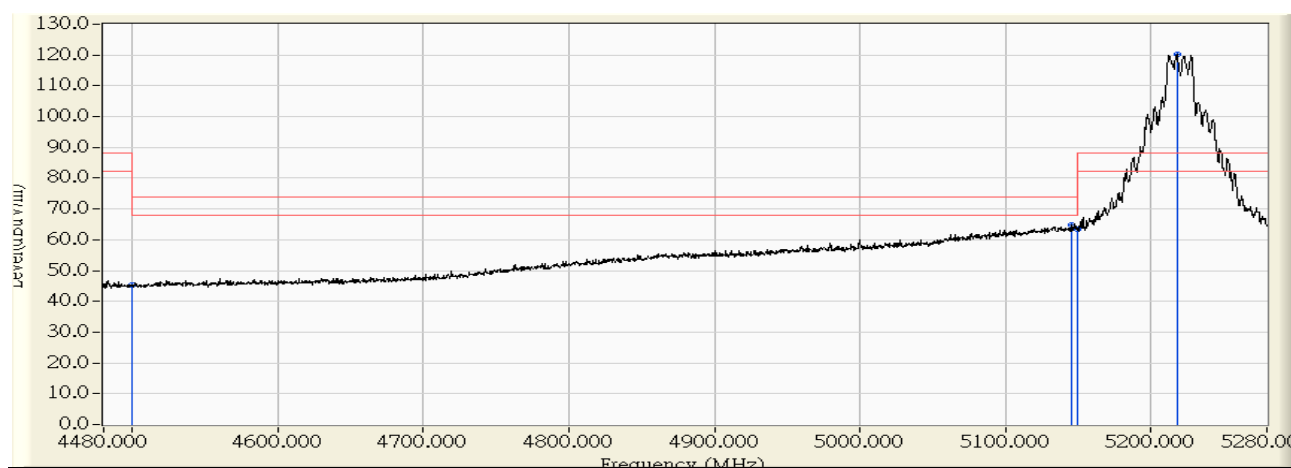


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.422                  | 32.017                    | -21.983        | 54.000            | AVERAGE       |
| 2 |   | 5143.200           | 0.923                  | 39.715                  | 40.638                    | -13.362        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 38.855                  | 39.830                    | -14.170        | 54.000            | AVERAGE       |
| 4 | * | 5223.200           | 1.543                  | 99.133                  | 100.676                   | 32.376         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 17:01                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

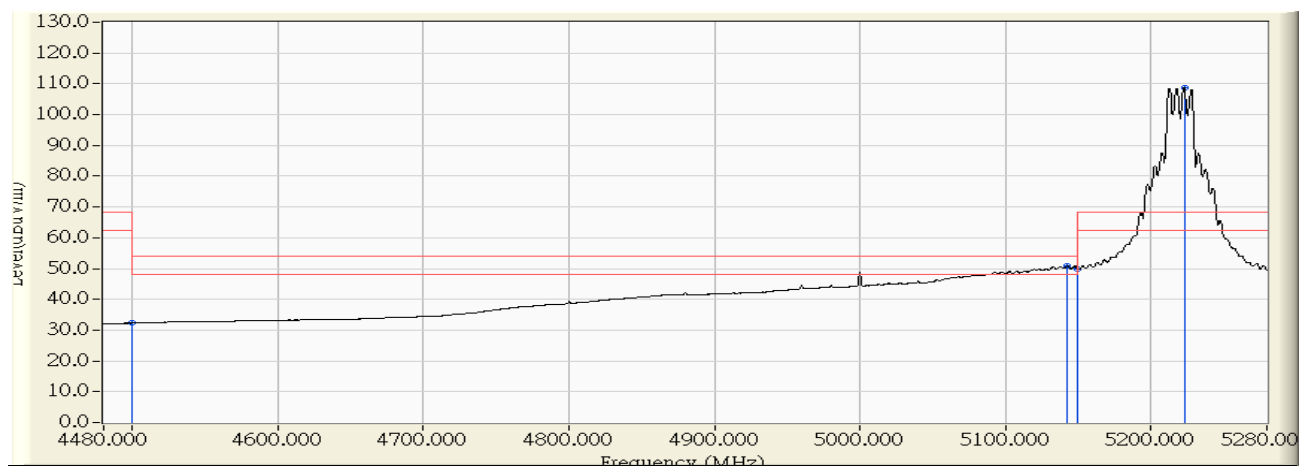


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 46.624                  | 45.219                    | -28.781        | 74.000            | PEAK          |
| 2 |   | 5146.000           | 0.944                  | 63.795                  | 64.739                    | -9.261         | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 62.618                  | 63.593                    | -10.407        | 74.000            | PEAK          |
| 4 | * | 5218.000           | 1.502                  | 118.600                 | 120.103                   | 31.803         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ \* ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 16:58                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5220MHz |

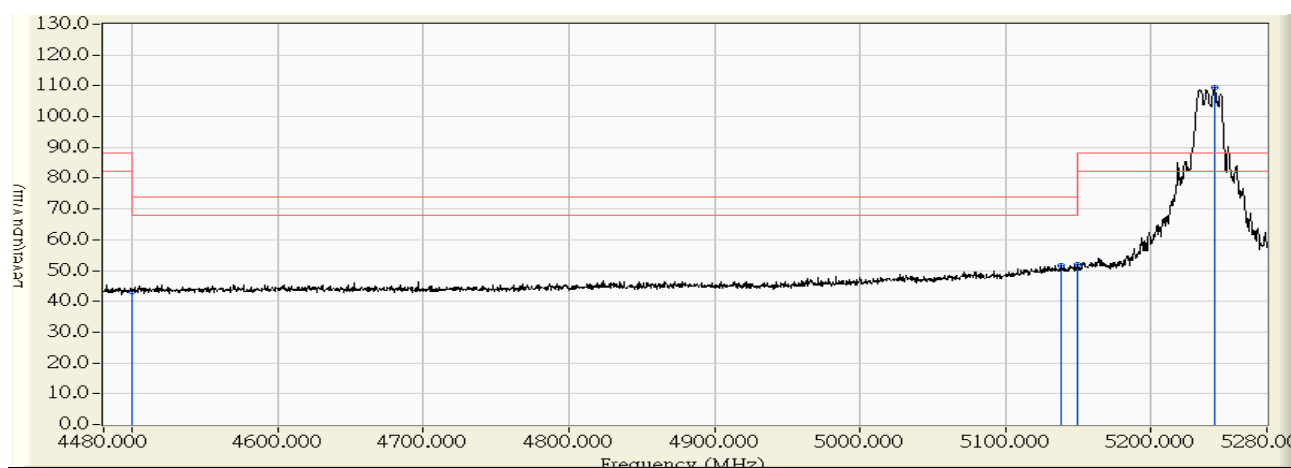


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.657                  | 32.252                    | -21.748        | 54.000            | AVERAGE       |
| 2 |   | 5142.400           | 0.917                  | 49.863                  | 50.779                    | -3.221         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 48.777                  | 49.752                    | -4.248         | 54.000            | AVERAGE       |
| 4 | * | 5223.200           | 1.543                  | 107.053                 | 108.596                   | 40.296         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 17:18                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

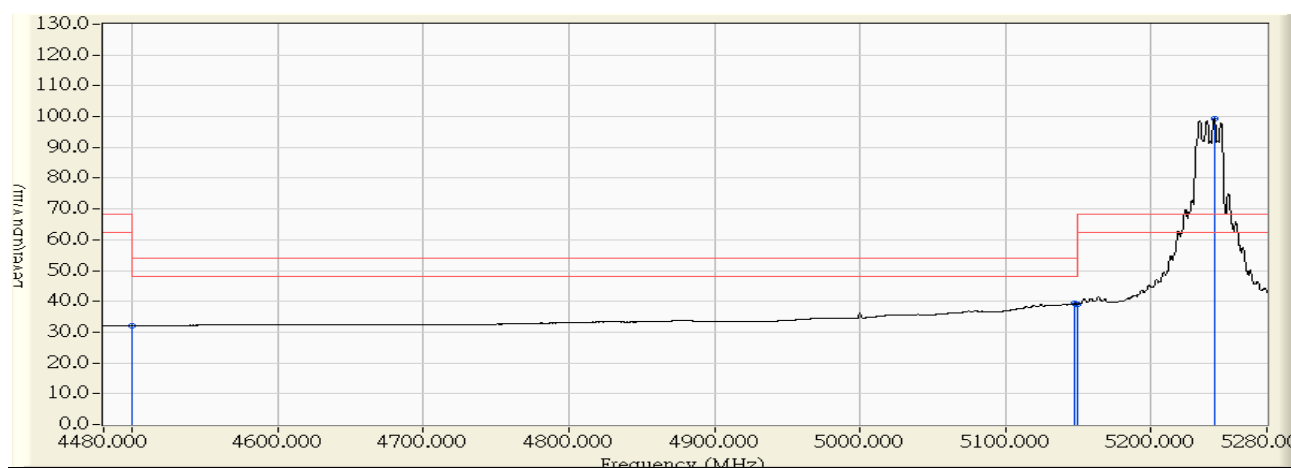


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 44.584                  | 43.179                    | -30.821        | 74.000            | PEAK          |
| 2 |   | 5138.400           | 0.885                  | 50.584                  | 51.469                    | -22.531        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 51.046                  | 52.021                    | -21.979        | 74.000            | PEAK          |
| 4 | * | 5244.000           | 1.704                  | 107.822                 | 109.526                   | 21.226         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 17:20                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

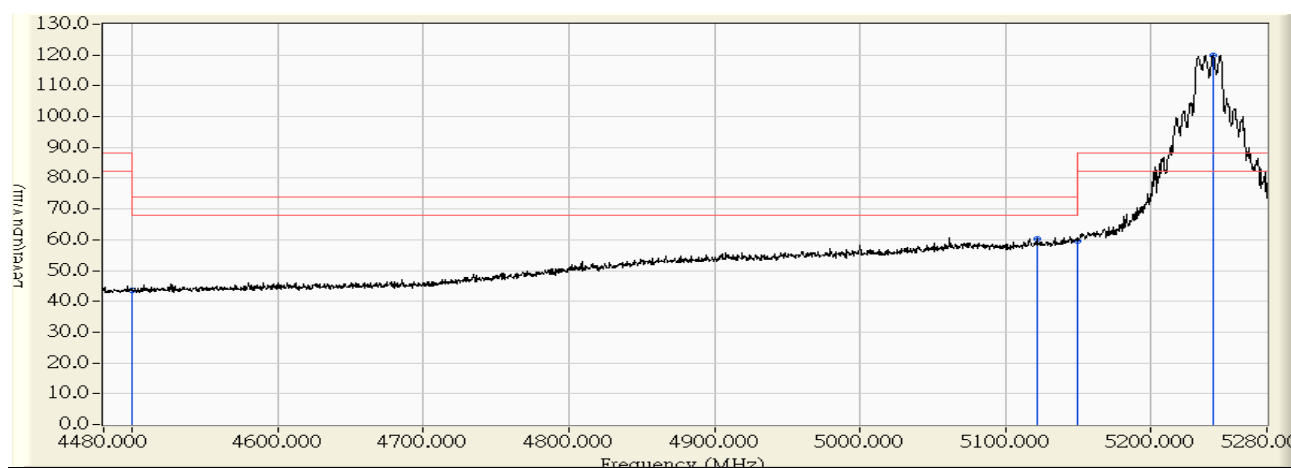


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.449                  | 32.044                    | -21.956        | 54.000            | AVERAGE       |
| 2 |   | 5148.000           | 0.959                  | 38.328                  | 39.288                    | -14.712        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 38.017                  | 38.992                    | -15.008        | 54.000            | AVERAGE       |
| 4 | * | 5244.000           | 1.704                  | 97.510                  | 99.214                    | 30.914         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 17:14                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

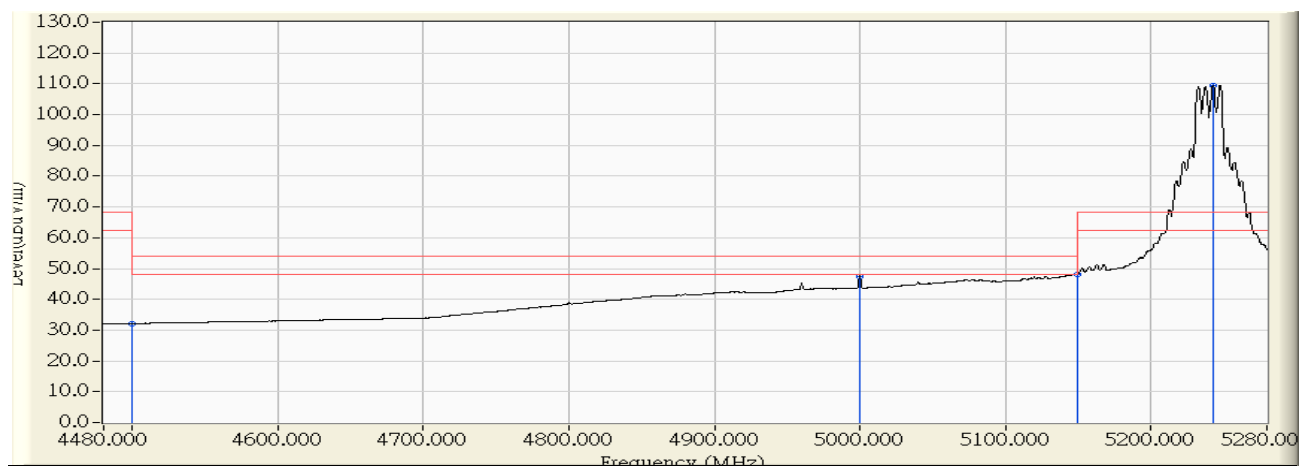


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 44.998                  | 43.593                    | -30.407        | 74.000            | PEAK          |
| 2 |   | 5121.600           | 0.756                  | 59.673                  | 60.428                    | -13.572        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 58.748                  | 59.723                    | -14.277        | 74.000            | PEAK          |
| 4 | * | 5242.800           | 1.695                  | 118.212                 | 119.907                   | 31.607         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 17:13                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(20MHz)_5240MHz |

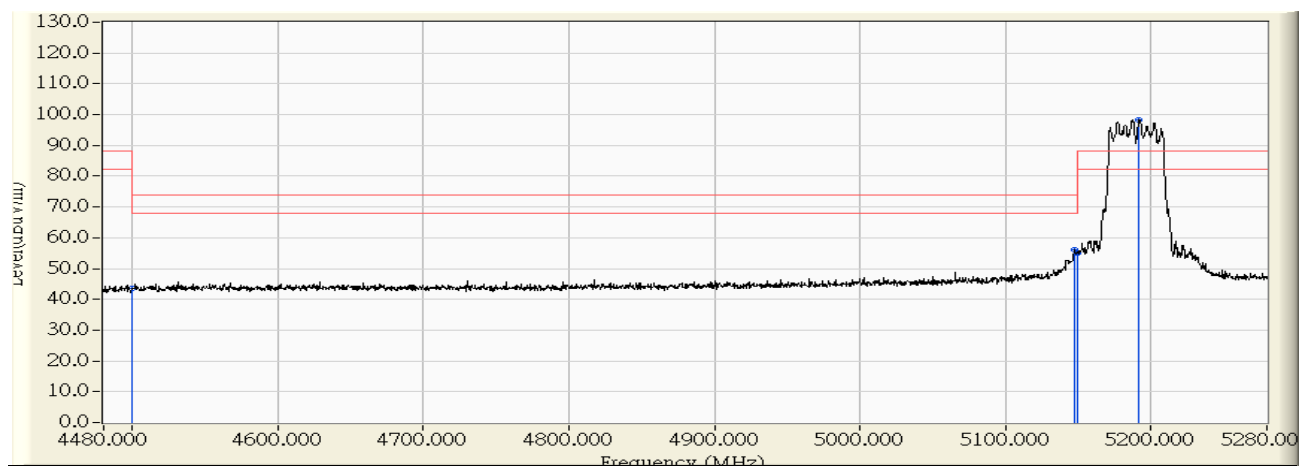


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.546                  | 32.141                    | -21.859        | 54.000            | AVERAGE       |
| 2 |   | 4999.600           | -0.171                 | 47.647                  | 47.476                    | -6.524         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 47.102                  | 48.077                    | -5.923         | 54.000            | AVERAGE       |
| 4 | * | 5242.800           | 1.695                  | 107.759                 | 109.454                   | 41.154         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 15:05                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5190MHz |

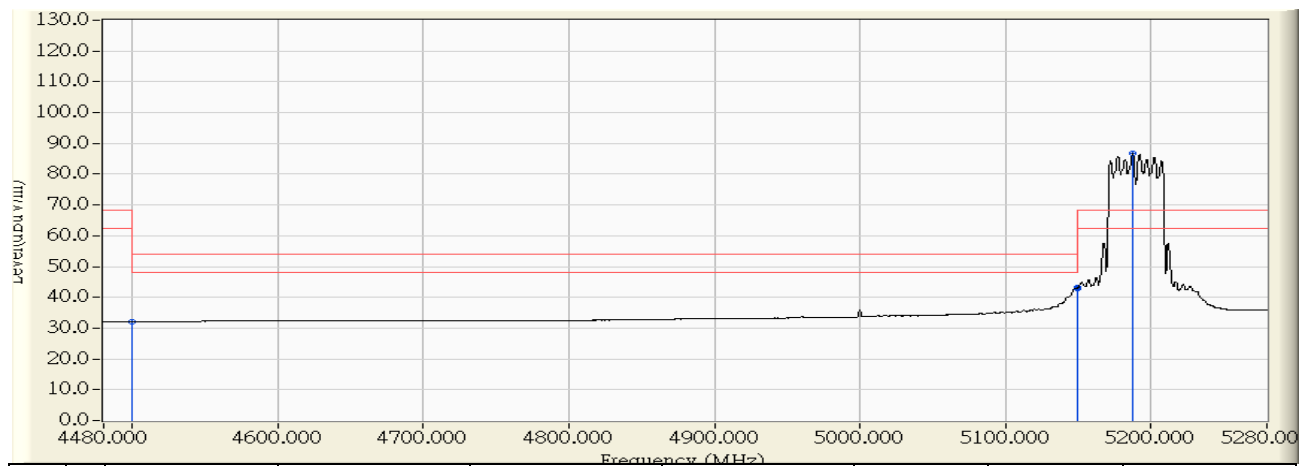


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 44.960                  | 43.555                    | -30.445        | 74.000            | PEAK          |
| 2 |   | 5147.200           | 0.954                  | 55.294                  | 56.248                    | -17.752        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 54.077                  | 55.052                    | -18.948        | 74.000            | PEAK          |
| 4 | * | 5192.000           | 1.302                  | 96.981                  | 98.282                    | 9.982          | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 15:07                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5190MHz |

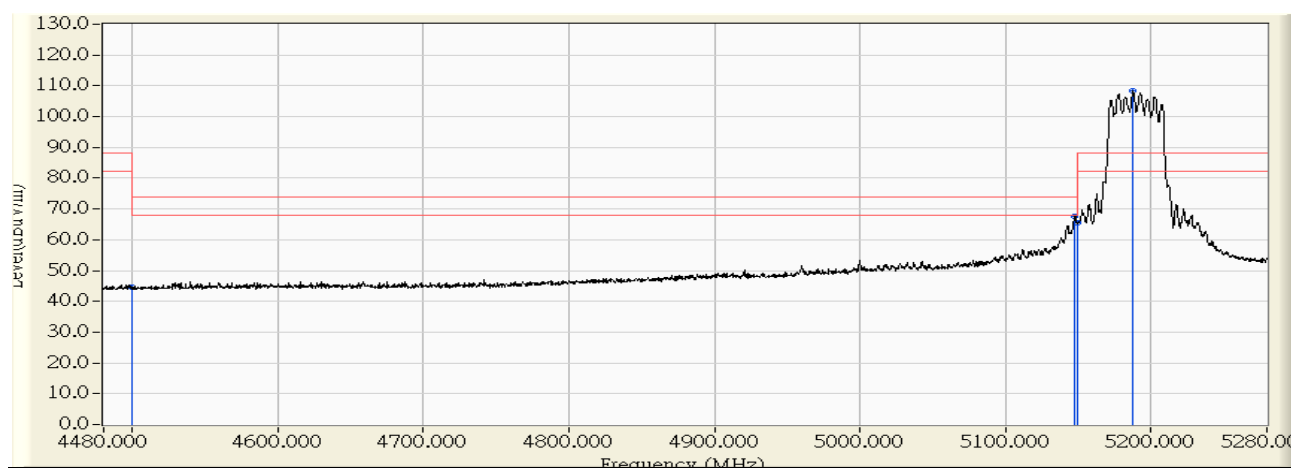


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.421                  | 32.016                    | -21.984        | 54.000            | AVERAGE       |
| 2 |   | 5149.600           | 0.972                  | 41.989                  | 42.961                    | -11.039        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 42.138                  | 43.113                    | -10.887        | 54.000            | AVERAGE       |
| 4 | * | 5187.600           | 1.266                  | 85.379                  | 86.646                    | 18.346         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 15:00                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5190MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.934                  | 44.529                    | -29.471        | 74.000            | PEAK          |
| 2 |   | 5147.600           | 0.956                  | 66.527                  | 67.484                    | -6.516         | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 64.506                  | 65.481                    | -8.519         | 74.000            | PEAK          |
| 4 | * | 5188.000           | 1.269                  | 107.140                 | 108.410                   | 20.110         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 14:56                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5190MHz |

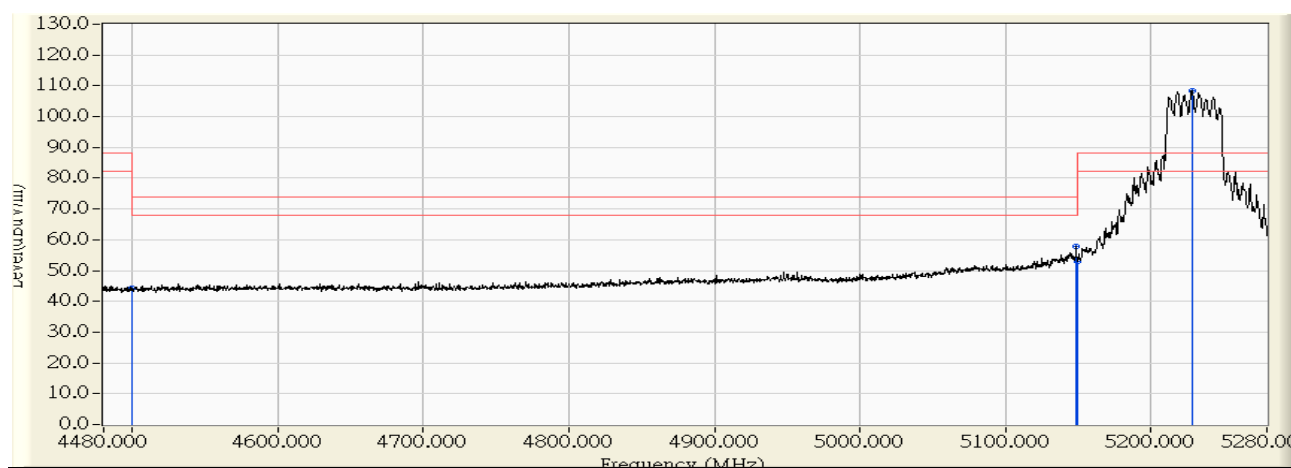


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.469                  | 32.064                    | -21.936        | 54.000            | AVERAGE       |
| 2 |   | 5147.600           | 0.956                  | 51.624                  | 52.581                    | -1.419         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 51.285                  | 52.260                    | -1.740         | 54.000            | AVERAGE       |
| 4 | * | 5188.000           | 1.269                  | 94.805                  | 96.075                    | 27.775         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 15:13                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.605                  | 44.200                    | -29.800        | 74.000            | PEAK          |
| 2 |   | 5148.800           | 0.966                  | 56.731                  | 57.697                    | -16.303        | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 52.025                  | 53.000                    | -21.000        | 74.000            | PEAK          |
| 4 | * | 5228.800           | 1.586                  | 106.910                 | 108.496                   | 20.196         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                    | Time : 2014/06/11 - 15:15                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV            | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900  | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

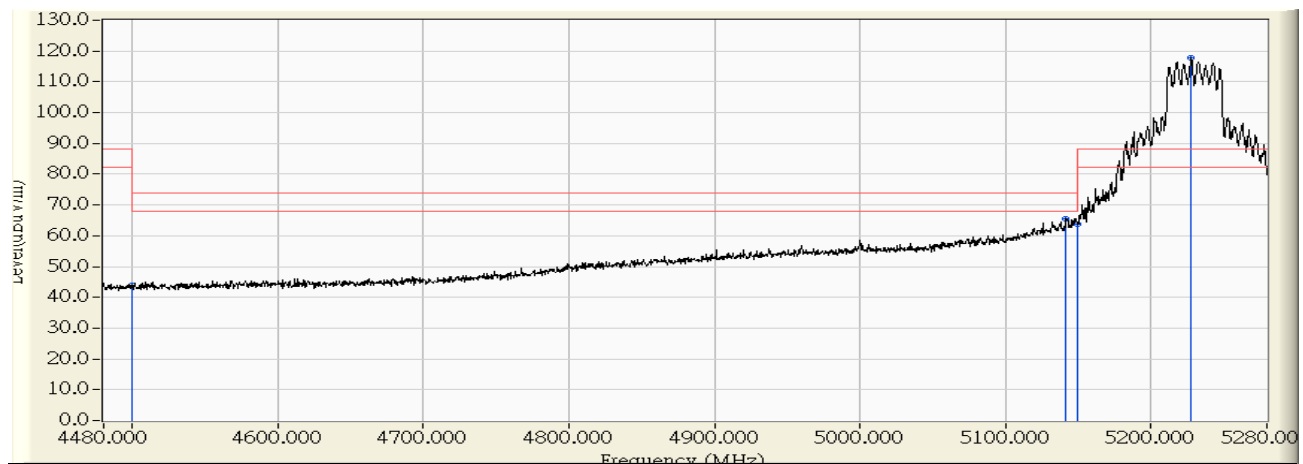


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.386                  | 31.981                    | -22.019        | 54.000            | AVERAGE       |
| 2 |   | 5148.000           | 0.959                  | 41.020                  | 41.980                    | -12.020        | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 40.167                  | 41.142                    | -12.858        | 54.000            | AVERAGE       |
| 4 | * | 5228.400           | 1.583                  | 95.303                  | 96.886                    | 28.586         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 14:39                                                            |
| Limit : FCC_SpartE_15.407_H_03M_PK           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |

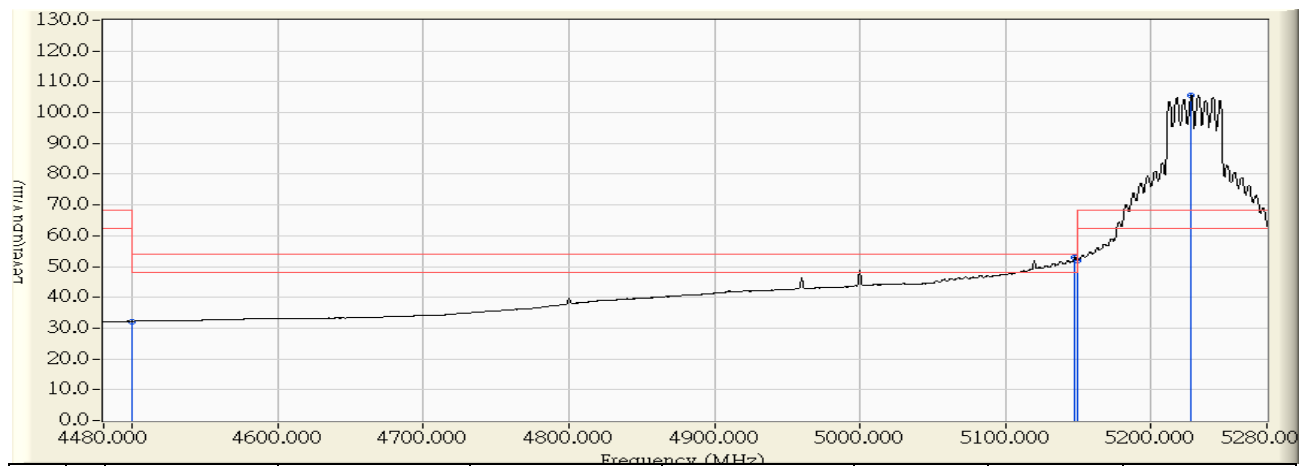


|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 45.484                  | 44.079                    | -29.921        | 74.000            | PEAK          |
| 2 |   | 5142.000           | 0.914                  | 64.461                  | 65.374                    | -8.626         | 74.000            | PEAK          |
| 3 |   | 5150.000           | 0.975                  | 62.730                  | 63.705                    | -10.295        | 74.000            | PEAK          |
| 4 | * | 5228.000           | 1.580                  | 116.313                 | 117.893                   | 29.593         | 88.300            | PEAK          |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| Site : CB1                                   | Time : 2014/06/11 - 14:38                                                            |
| Limit : FCC_SpartE_15.407_H_03M_AV           | Margin : 6                                                                           |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL  | Power : AC 120V/60Hz                                                                 |
| EUT : Gigabit Router Dual-band Wireless-N900 | Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH<br>802.11n(40MHz)_5230MHz |



|   |   | Frequency<br>(MHz) | Correct Factor<br>(dB) | Reading Level<br>(dBuV) | Measure Level<br>(dBuV/m) | Margin<br>(dB) | Limit<br>(dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 |   | 4500.000           | -1.406                 | 33.635                  | 32.230                    | -21.770        | 54.000            | AVERAGE       |
| 2 |   | 5148.000           | 0.959                  | 51.951                  | 52.911                    | -1.089         | 54.000            | AVERAGE       |
| 3 |   | 5150.000           | 0.975                  | 51.025                  | 52.000                    | -2.000         | 54.000            | AVERAGE       |
| 4 | * | 5228.000           | 1.580                  | 104.160                 | 105.740                   | 37.440         | 68.300            | AVERAGE       |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " \* ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

## 8. Frequency Stability

### 8.1. Test Equipment

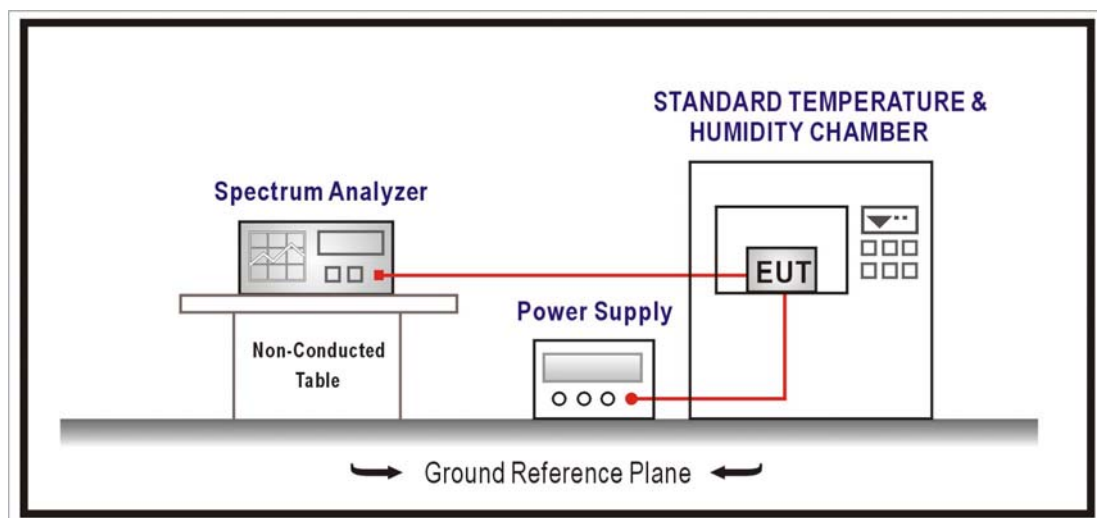
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

| Instrument                     | Manufacturer | Model No.  | Serial No  | Next Cal. Date |
|--------------------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer              | Agilent      | N9010A-EXA | US47140172 | 2014/08/05     |
| Temperature & Humidity Chamber | WIT          | TH-1S-B    | 1082101    | 2015/01/22     |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 8.2. Test Setup



### 8.3. Limits

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

### 8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

### 8.5. Uncertainty

The measurement uncertainty is defined as  $\pm 150$  Hz

## 8.6. Test Result

|              |                                                                                |           |     |
|--------------|--------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                         |           |     |
| Test Item    | Frequency Stability                                                            |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5180MHz(ANT 0) |           |     |
| Date of Test | 2014/06/14                                                                     | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5180.0029       | 0.5545          | PASS   |
| -10                       |                | 5180.2830       | 54.6401         | PASS   |
| 0                         |                | 5180.6815       | 131.5650        | PASS   |
| 10                        |                | 5180.8651       | 166.9990        | PASS   |
| 20                        |                | 5180.7915       | 152.8036        | PASS   |
| 30                        |                | 5180.4325       | 83.4889         | PASS   |
| 40                        |                | 5180.4021       | 77.6268         | PASS   |
| 50                        |                | 5180.0838       | 16.1838         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5180.2330       | 44.9728         | PASS   |
|                           | 120            | 5180.8037       | 155.1482        | PASS   |
|                           | 138            | 5180.0095       | 1.8407          | PASS   |

|              |                                                                                |           |     |
|--------------|--------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                         |           |     |
| Test Item    | Frequency Stability                                                            |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5240MHz(ANT 0) |           |     |
| Date of Test | 2014/06/14                                                                     | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5240.4917       | 93.8356         | PASS   |
| -10                       |                | 5240.3197       | 61.0203         | PASS   |
| 0                         |                | 5240.3202       | 61.1112         | PASS   |
| 10                        |                | 5240.4961       | 94.6742         | PASS   |
| 20                        |                | 5240.6194       | 118.2071        | PASS   |
| 30                        |                | 5240.2662       | 50.7940         | PASS   |
| 40                        |                | 5240.5535       | 105.6298        | PASS   |
| 50                        |                | 5240.1174       | 22.4088         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5240.3444       | 65.7247         | PASS   |
|                           | 120            | 5240.0052       | 0.9998          | PASS   |
|                           | 138            | 5240.3432       | 65.4979         | PASS   |

|              |                                                                                |           |     |
|--------------|--------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                         |           |     |
| Test Item    | Frequency Stability                                                            |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5180MHz(ANT 1) |           |     |
| Date of Test | 2014/06/14                                                                     | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5180.2648       | 51.1140         | PASS   |
| -10                       |                | 5180.0161       | 3.0996          | PASS   |
| 0                         |                | 5180.3729       | 71.9958         | PASS   |
| 10                        |                | 5180.7161       | 138.2425        | PASS   |
| 20                        |                | 5180.3693       | 71.2988         | PASS   |
| 30                        |                | 5180.3583       | 69.1784         | PASS   |
| 40                        |                | 5180.4885       | 94.3120         | PASS   |
| 50                        |                | 5180.2056       | 39.7005         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5180.5148       | 99.3857         | PASS   |
|                           | 120            | 5180.2430       | 46.9042         | PASS   |
|                           | 138            | 5180.4396       | 84.8710         | PASS   |

|              |                                                                                |           |     |
|--------------|--------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                         |           |     |
| Test Item    | Frequency Stability                                                            |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5240MHz(ANT 1) |           |     |
| Date of Test | 2014/06/14                                                                     | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5240.2784       | 53.1377         | PASS   |
| -10                       |                | 5240.6637       | 126.6628        | PASS   |
| 0                         |                | 5240.7173       | 136.8929        | PASS   |
| 10                        |                | 5240.6792       | 129.6268        | PASS   |
| 20                        |                | 5240.2509       | 47.8804         | PASS   |
| 30                        |                | 5240.0155       | 2.9547          | PASS   |
| 40                        |                | 5240.1444       | 27.5594         | PASS   |
| 50                        |                | 5240.0539       | 10.2850         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5240.8976       | 171.2927        | PASS   |
|                           | 120            | 5240.0180       | 3.4341          | PASS   |
|                           | 138            | 5240.5135       | 98.0025         | PASS   |

|              |                                                                                |           |     |
|--------------|--------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                         |           |     |
| Test Item    | Frequency Stability                                                            |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5180MHz(ANT 2) |           |     |
| Date of Test | 2014/06/14                                                                     | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5180.0029       | 0.5545          | PASS   |
| -10                       |                | 5180.2830       | 54.6401         | PASS   |
| 0                         |                | 5180.6815       | 131.5650        | PASS   |
| 10                        |                | 5180.8651       | 166.9990        | PASS   |
| 20                        |                | 5180.7915       | 152.8036        | PASS   |
| 30                        |                | 5180.4325       | 83.4889         | PASS   |
| 40                        |                | 5180.4021       | 77.6268         | PASS   |
| 50                        |                | 5180.0838       | 16.1838         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5180.2330       | 44.9728         | PASS   |
|                           | 120            | 5180.8037       | 155.1482        | PASS   |
|                           | 138            | 5180.0095       | 1.8407          | PASS   |

|              |                                                                                |           |     |
|--------------|--------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                         |           |     |
| Test Item    | Frequency Stability                                                            |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5240MHz(ANT 2) |           |     |
| Date of Test | 2014/06/14                                                                     | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5240.4917       | 93.8356         | PASS   |
| -10                       |                | 5240.3197       | 61.0203         | PASS   |
| 0                         |                | 5240.3202       | 61.1112         | PASS   |
| 10                        |                | 5240.4961       | 94.6742         | PASS   |
| 20                        |                | 5240.6194       | 118.2071        | PASS   |
| 30                        |                | 5240.2662       | 50.7940         | PASS   |
| 40                        |                | 5240.5535       | 105.6298        | PASS   |
| 50                        |                | 5240.1174       | 22.4088         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5240.3444       | 65.7247         | PASS   |
|                           | 120            | 5240.0052       | 0.9998          | PASS   |
|                           | 138            | 5240.3432       | 65.4979         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5180MHz(ANT 0) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5180.2754       | 53.1683         | PASS   |
| -10                       |                | 5180.4103       | 79.2133         | PASS   |
| 0                         |                | 5180.6934       | 133.8646        | PASS   |
| 10                        |                | 5180.8570       | 165.4490        | PASS   |
| 20                        |                | 5180.2418       | 46.6847         | PASS   |
| 30                        |                | 5180.0709       | 13.6870         | PASS   |
| 40                        |                | 5180.7876       | 152.0473        | PASS   |
| 50                        |                | 5180.6609       | 127.5905        | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5180.2241       | 43.2593         | PASS   |
|                           | 120            | 5180.2586       | 49.9293         | PASS   |
|                           | 138            | 5180.4328       | 83.5562         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5240MHz(ANT 0) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5240.6291       | 120.0589        | PASS   |
| -10                       |                | 5240.5568       | 106.2626        | PASS   |
| 0                         |                | 5240.2784       | 53.1217         | PASS   |
| 10                        |                | 5240.6438       | 122.8649        | PASS   |
| 20                        |                | 5240.5692       | 108.6206        | PASS   |
| 30                        |                | 5240.1260       | 24.0369         | PASS   |
| 40                        |                | 5240.5797       | 110.6209        | PASS   |
| 50                        |                | 5240.4699       | 89.6727         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5240.5152       | 98.3281         | PASS   |
|                           | 120            | 5240.6780       | 129.3988        | PASS   |
|                           | 138            | 5240.2139       | 40.8248         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5180MHz(ANT 1) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5180.7044       | 135.9912        | PASS   |
| -10                       |                | 5180.3543       | 68.4034         | PASS   |
| 0                         |                | 5180.6601       | 127.4368        | PASS   |
| 10                        |                | 5180.5551       | 107.1718        | PASS   |
| 20                        |                | 5180.1178       | 22.7386         | PASS   |
| 30                        |                | 5180.4669       | 90.1428         | PASS   |
| 40                        |                | 5180.5033       | 97.1617         | PASS   |
| 50                        |                | 5180.2783       | 53.7206         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5180.8641       | 166.8135        | PASS   |
|                           | 120            | 5180.7657       | 147.8149        | PASS   |
|                           | 138            | 5180.4453       | 85.9570         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5240MHz(ANT 1) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5240.7101       | 135.5119        | PASS   |
| -10                       |                | 5240.6619       | 126.3223        | PASS   |
| 0                         |                | 5240.2958       | 56.4507         | PASS   |
| 10                        |                | 5240.0562       | 10.7225         | PASS   |
| 20                        |                | 5240.2925       | 55.8221         | PASS   |
| 30                        |                | 5240.1113       | 21.2450         | PASS   |
| 40                        |                | 5240.0025       | 0.4767          | PASS   |
| 50                        |                | 5240.4215       | 80.4403         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5240.0899       | 17.1655         | PASS   |
|                           | 120            | 5240.4028       | 76.8771         | PASS   |
|                           | 138            | 5240.0427       | 8.1477          | PASS   |

|              |                                                                                     |           |     |
|--------------|-------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                              |           |     |
| Test Item    | Frequency Stability                                                                 |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5180MHz (ANT 2) |           |     |
| Date of Test | 2014/06/14                                                                          | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5180.1001       | 19.3165         | PASS   |
| -10                       |                | 5180.8094       | 156.2455        | PASS   |
| 0                         |                | 5180.0352       | 6.7899          | PASS   |
| 10                        |                | 5180.0115       | 2.2243          | PASS   |
| 20                        |                | 5180.8441       | 162.9462        | PASS   |
| 30                        |                | 5180.7187       | 138.7366        | PASS   |
| 40                        |                | 5180.3046       | 58.8011         | PASS   |
| 50                        |                | 5180.8649       | 166.9677        | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5180.0187       | 3.6035          | PASS   |
|                           | 120            | 5180.4770       | 92.0843         | PASS   |
|                           | 138            | 5180.2770       | 53.4771         | PASS   |

|              |                                                                                     |           |     |
|--------------|-------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                              |           |     |
| Test Item    | Frequency Stability                                                                 |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5240MHz (ANT 2) |           |     |
| Date of Test | 2014/06/14                                                                          | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5240.3069       | 58.5626         | PASS   |
| -10                       |                | 5240.3076       | 58.6977         | PASS   |
| 0                         |                | 5240.4954       | 94.5470         | PASS   |
| 10                        |                | 5240.3732       | 71.2153         | PASS   |
| 20                        |                | 5240.2758       | 52.6426         | PASS   |
| 30                        |                | 5240.2833       | 54.0719         | PASS   |
| 40                        |                | 5240.0396       | 7.5551          | PASS   |
| 50                        |                | 5240.1925       | 36.7284         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5240.6353       | 121.2334        | PASS   |
|                           | 120            | 5240.0268       | 5.1173          | PASS   |
|                           | 138            | 5240.7364       | 140.5297        | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5190MHz(ANT 0) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5190.1173       | 22.6097         | PASS   |
| -10                       |                | 5190.4073       | 78.4695         | PASS   |
| 0                         |                | 5190.2607       | 50.2241         | PASS   |
| 10                        |                | 5190.5640       | 108.6733        | PASS   |
| 20                        |                | 5190.7784       | 149.9803        | PASS   |
| 30                        |                | 5190.2353       | 45.3347         | PASS   |
| 40                        |                | 5190.6436       | 124.0131        | PASS   |
| 50                        |                | 5190.5607       | 108.0424        | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5190.8534       | 164.4272        | PASS   |
|                           | 120            | 5190.5077       | 97.8313         | PASS   |
|                           | 138            | 5190.7500       | 144.5011        | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5230MHz(ANT 0) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5230.7603       | 145.3814        | PASS   |
| -10                       |                | 5230.5039       | 96.3416         | PASS   |
| 0                         |                | 5230.4621       | 88.3530         | PASS   |
| 10                        |                | 5230.5396       | 103.1735        | PASS   |
| 20                        |                | 5230.3767       | 72.0303         | PASS   |
| 30                        |                | 5230.0402       | 7.6803          | PASS   |
| 40                        |                | 5230.4788       | 91.5504         | PASS   |
| 50                        |                | 5230.0702       | 13.4155         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5230.4573       | 87.4412         | PASS   |
|                           | 120            | 5230.2047       | 39.1478         | PASS   |
|                           | 138            | 5230.3714       | 71.0046         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5190MHz(ANT 1) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5190.0045       | 0.8613          | PASS   |
| -10                       |                | 5190.8614       | 165.9806        | PASS   |
| 0                         |                | 5190.3843       | 74.0376         | PASS   |
| 10                        |                | 5190.2615       | 50.3774         | PASS   |
| 20                        |                | 5190.2748       | 52.9537         | PASS   |
| 30                        |                | 5190.1946       | 37.5014         | PASS   |
| 40                        |                | 5190.0725       | 13.9639         | PASS   |
| 50                        |                | 5190.0431       | 8.2952          | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5190.4330       | 83.4253         | PASS   |
|                           | 120            | 5190.6226       | 119.9600        | PASS   |
|                           | 138            | 5190.0727       | 14.0068         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5230MHz(ANT 1) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5230.1675       | 32.0321         | PASS   |
| -10                       |                | 5230.2304       | 44.0520         | PASS   |
| 0                         |                | 5230.2696       | 51.5571         | PASS   |
| 10                        |                | 5230.5625       | 107.5457        | PASS   |
| 20                        |                | 5230.8506       | 162.6332        | PASS   |
| 30                        |                | 5230.7525       | 143.8835        | PASS   |
| 40                        |                | 5230.6991       | 133.6754        | PASS   |
| 50                        |                | 5230.1690       | 32.3102         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5230.4302       | 82.2493         | PASS   |
|                           | 120            | 5230.0596       | 11.3923         | PASS   |
|                           | 138            | 5230.3422       | 65.4320         | PASS   |

|              |                                                                                    |           |     |
|--------------|------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                             |           |     |
| Test Item    | Frequency Stability                                                                |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5190MHz(ANT 2) |           |     |
| Date of Test | 2014/06/14                                                                         | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5190.6893       | 132.8097        | PASS   |
| -10                       |                | 5190.2636       | 50.7932         | PASS   |
| 0                         |                | 5190.7683       | 148.0254        | PASS   |
| 10                        |                | 5190.4913       | 94.6621         | PASS   |
| 20                        |                | 5190.3126       | 60.2321         | PASS   |
| 30                        |                | 5190.3796       | 73.1362         | PASS   |
| 40                        |                | 5190.2169       | 41.7942         | PASS   |
| 50                        |                | 5190.1819       | 35.0415         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5190.0208       | 4.0096          | PASS   |
|                           | 120            | 5190.5985       | 115.3168        | PASS   |
|                           | 138            | 5190.1041       | 20.0551         | PASS   |

|              |                                                                                      |           |     |
|--------------|--------------------------------------------------------------------------------------|-----------|-----|
| Product      | Gigabit Router Dual-band Wireless-N900                                               |           |     |
| Test Item    | Frequency Stability                                                                  |           |     |
| Test Mode    | Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M<br>-5230MHz(ANT 2) |           |     |
| Date of Test | 2014/06/14                                                                           | Test Site | SR7 |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| -20                       | 120            | 5230.0925       | 17.6826         | PASS   |
| -10                       |                | 5230.5911       | 113.0250        | PASS   |
| 0                         |                | 5230.5870       | 112.2357        | PASS   |
| 10                        |                | 5230.5467       | 104.5306        | PASS   |
| 20                        |                | 5230.7800       | 149.1487        | PASS   |
| 30                        |                | 5230.2384       | 45.5764         | PASS   |
| 40                        |                | 5230.2697       | 51.5661         | PASS   |
| 50                        |                | 5230.1251       | 23.9157         | PASS   |

| Temperature Interval (°C) | AC Voltage (V) | Frequency (MHz) | Deviation (ppm) | Result |
|---------------------------|----------------|-----------------|-----------------|--------|
| 25                        | 102            | 5230.1753       | 33.5275         | PASS   |
|                           | 120            | 5230.0994       | 19.0105         | PASS   |
|                           | 138            | 5230.1399       | 26.7559         | PASS   |