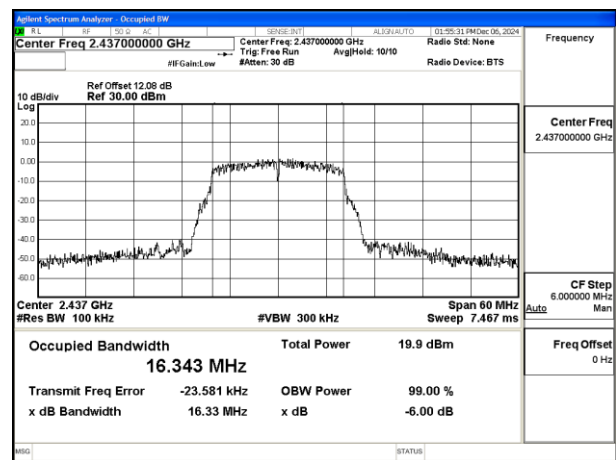
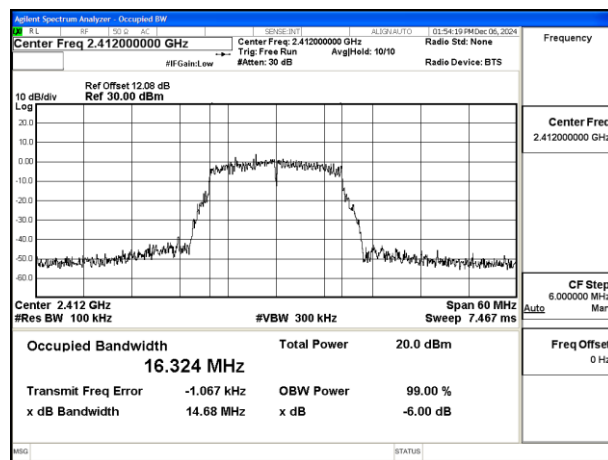


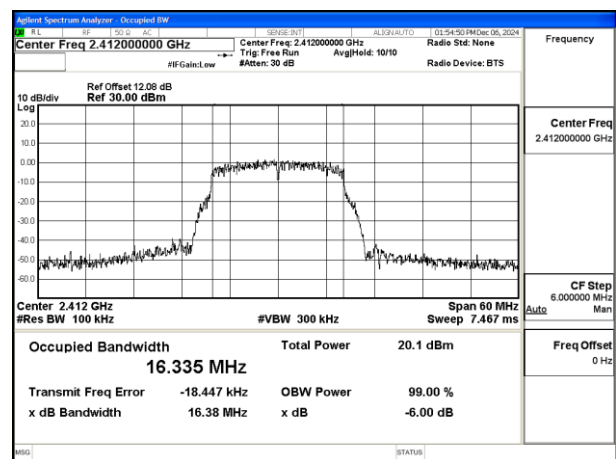
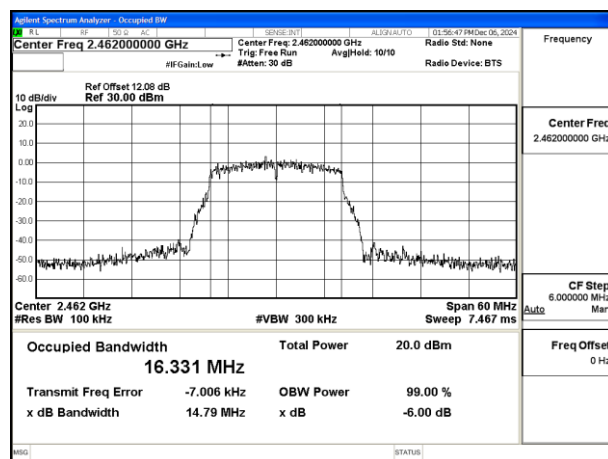


Test Mode: 802.11g



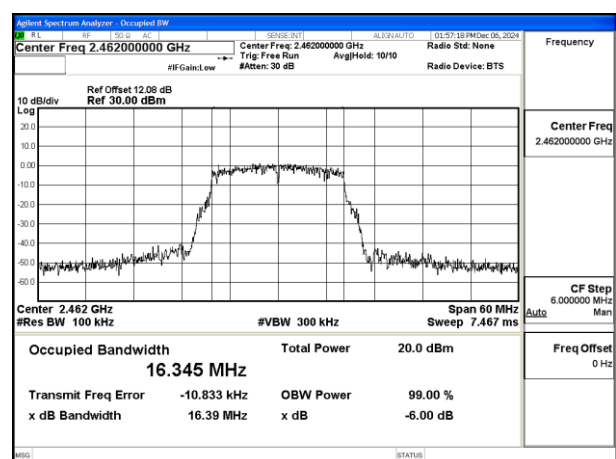
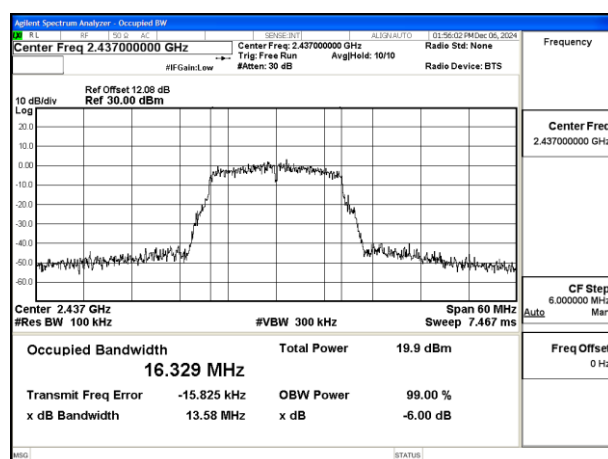
Mode:802.11g Frequency:2412MHz Ant:Chain0

Mode:802.11g Frequency:2437MHz Ant:Chain0



Mode:802.11g Frequency:2462MHz Ant:Chain0

Mode:802.11g Frequency:2412MHz Ant:Chain1



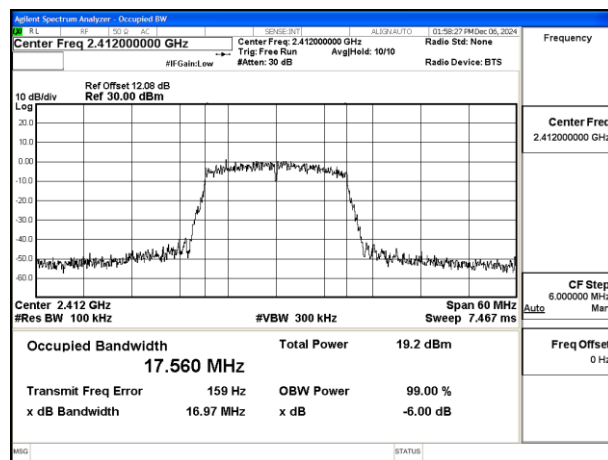
Mode:802.11g Frequency:2437MHz Ant:Chain1

Mode:802.11g Frequency:2462MHz Ant:Chain1



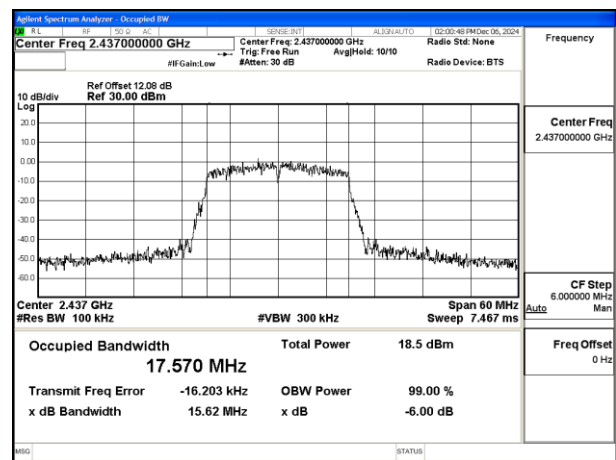
**BUREAU VERITAS** Test Report No.: PSU-NQN2412200117RF02

Test Mode: 802.11n HT20



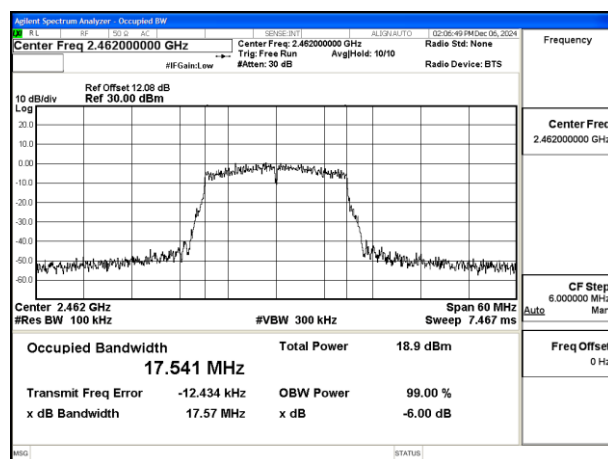
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



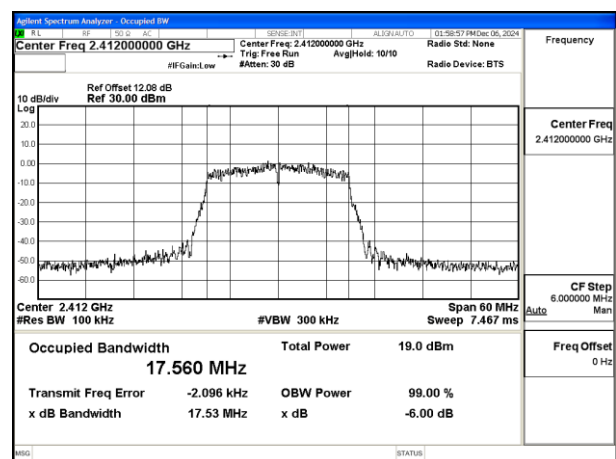
Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain0



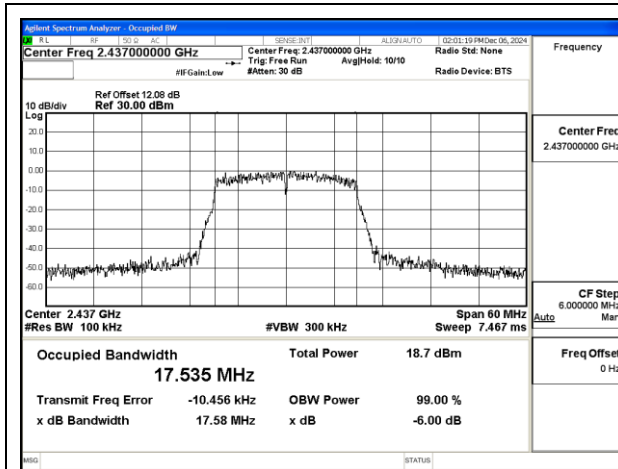
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain1



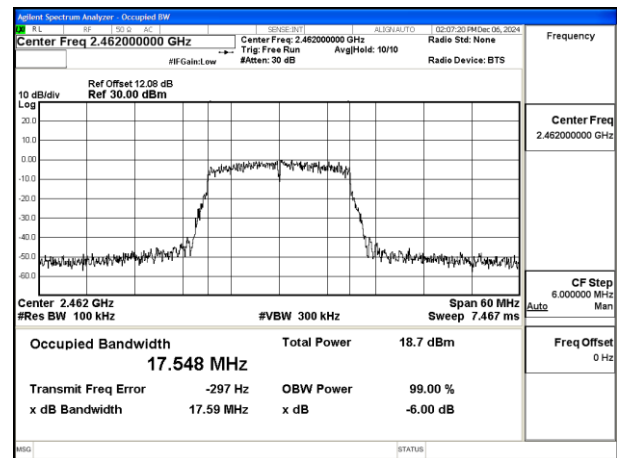
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Mode:802.11n HT20 Frequency:2437MHz

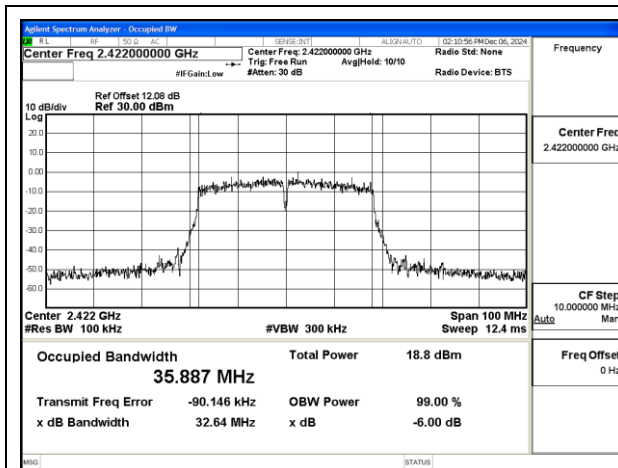
Ant:Chain1



Mode:802.11n HT20 Frequency:2462MHz

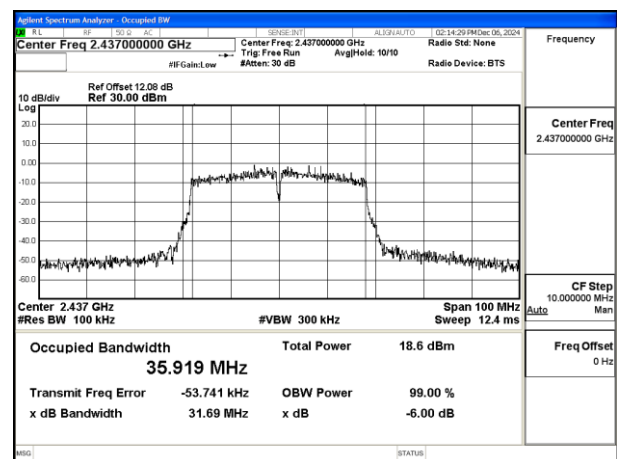
Ant:Chain1

Test Mode: 802.11n HT40



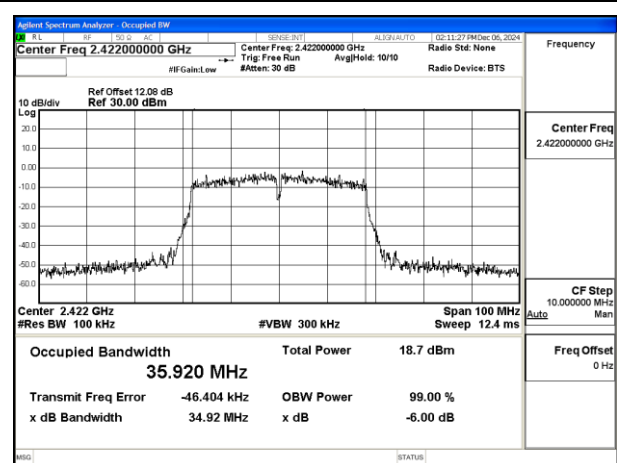
Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain0



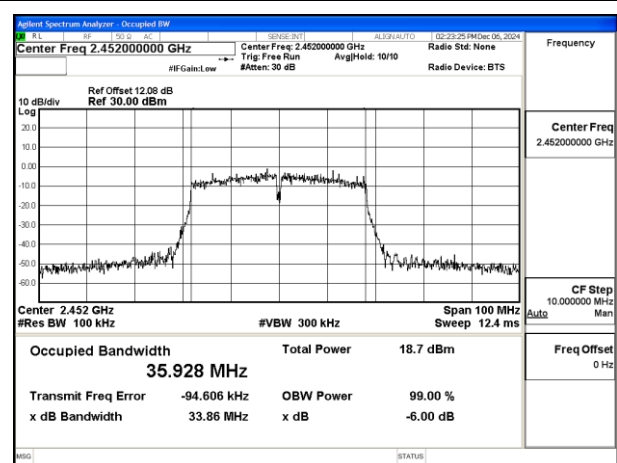
Mode:802.11n HT40 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain1



Mode:802.11n HT40 Frequency:2452MHz

Ant:Chain1

**OCCUPIED CHANNEL BANDWIDTH****TEST RESULT**

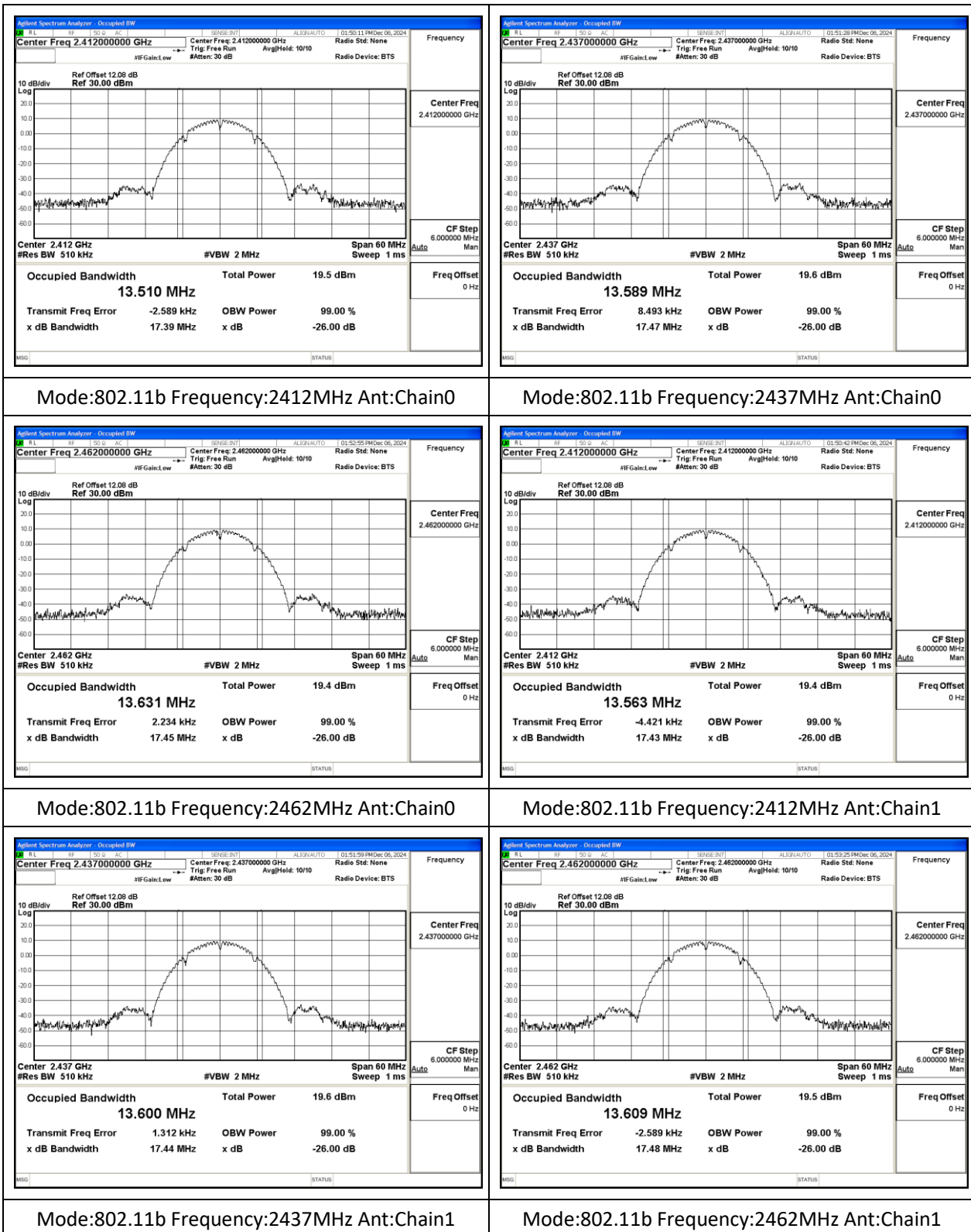
| Test Mode    | Antenna | 99% bandwidth(MHz) |              |               |
|--------------|---------|--------------------|--------------|---------------|
|              |         | Channel No.1       | Channel No.6 | Channel No.11 |
|              |         | 2412MHz            | 2437MHz      | 2462MHz       |
| 802.11b      | Chain0  | 13.510             | 13.589       | 13.631        |
| 802.11b      | Chain1  | 13.563             | 13.600       | 13.609        |
| 802.11g      | Chain0  | 16.612             | 16.604       | 16.646        |
| 802.11g      | Chain1  | 16.576             | 16.635       | 16.471        |
| 802.11n HT20 | Chain0  | 17.656             | 17.652       | 17.721        |
| 802.11n HT20 | Chain1  | 17.778             | 17.682       | 17.648        |

| Test Mode    | Antenna | 99% bandwidth(MHz) |              |              |
|--------------|---------|--------------------|--------------|--------------|
|              |         | Channel No.3       | Channel No.6 | Channel No.9 |
|              |         | 2422MHz            | 2437MHz      | 2452MHz      |
| 802.11n HT40 | Chain0  | 35.964             | 35.915       | 35.947       |
| 802.11n HT40 | Chain1  | 35.927             | 35.858       | 35.992       |



## TEST GRAPHS

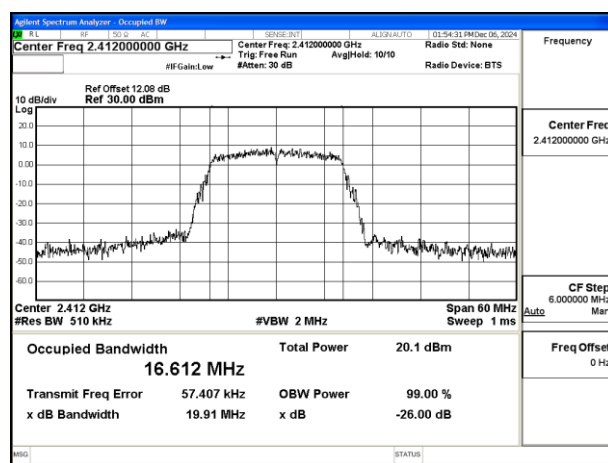
Test Mode: 802.11b



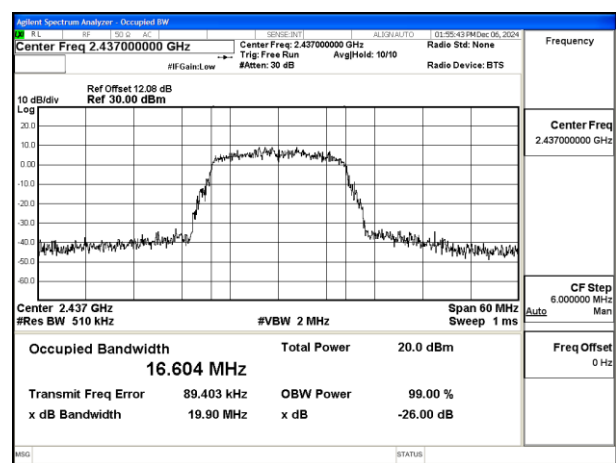


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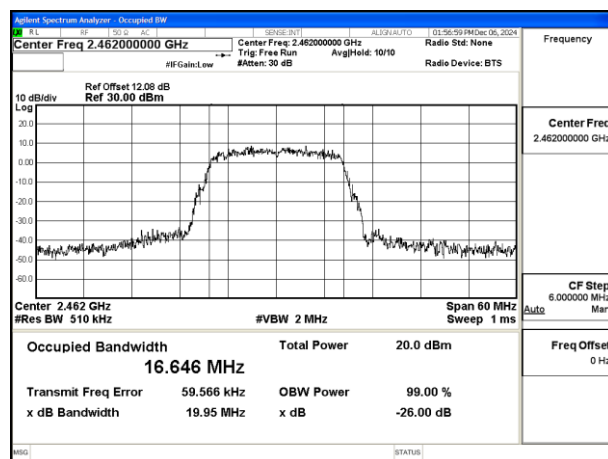
Test Mode: 802.11g



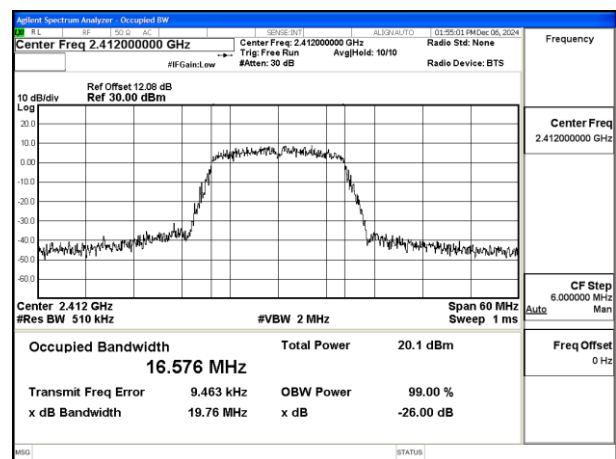
Mode:802.11g Frequency:2412MHz Ant:Chain0



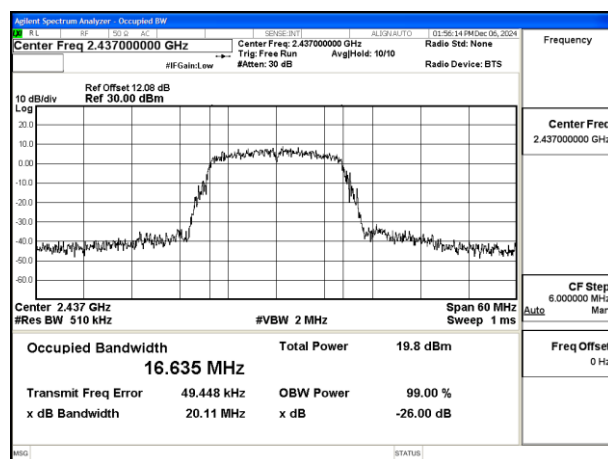
Mode:802.11g Frequency:2437MHz Ant:Chain0



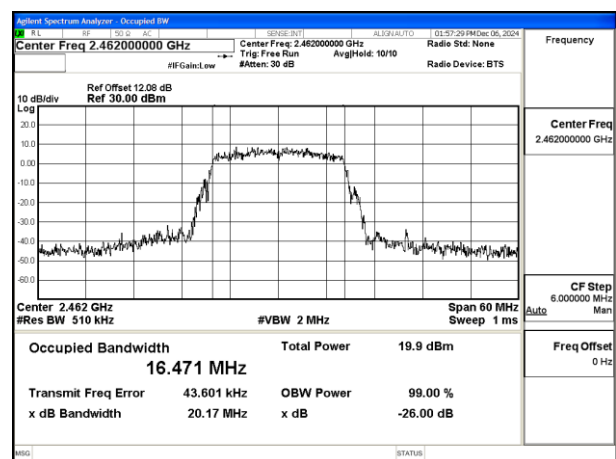
Mode:802.11g Frequency:2462MHz Ant:Chain0



Mode:802.11g Frequency:2412MHz Ant:Chain1



Mode:802.11g Frequency:2437MHz Ant:Chain1

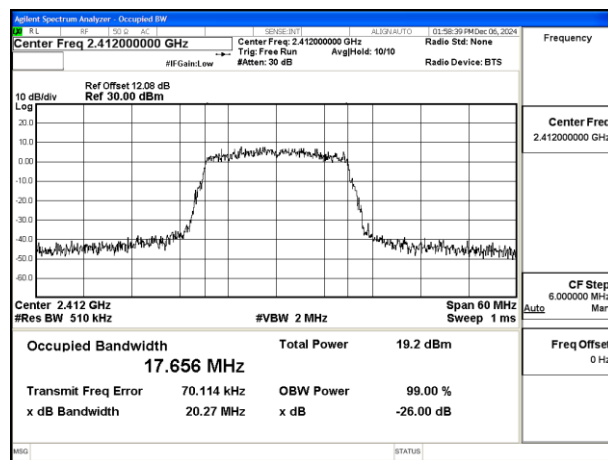


Mode:802.11g Frequency:2462MHz Ant:Chain1



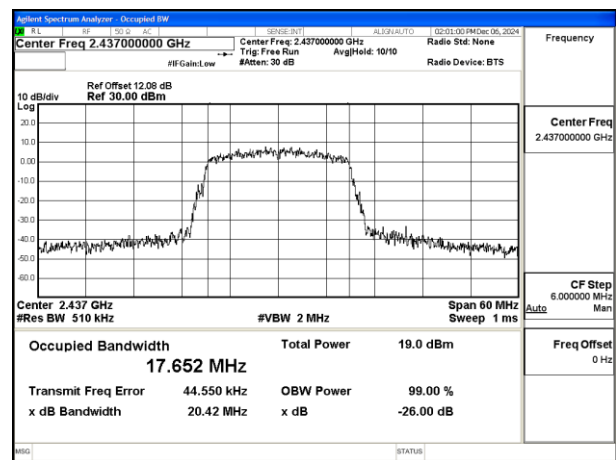
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Test Mode: 802.11n HT20



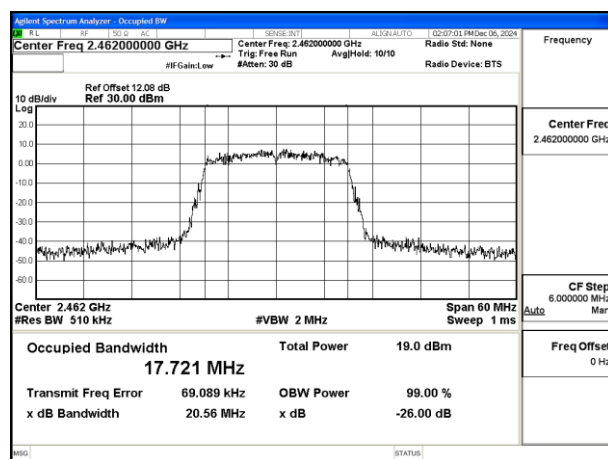
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



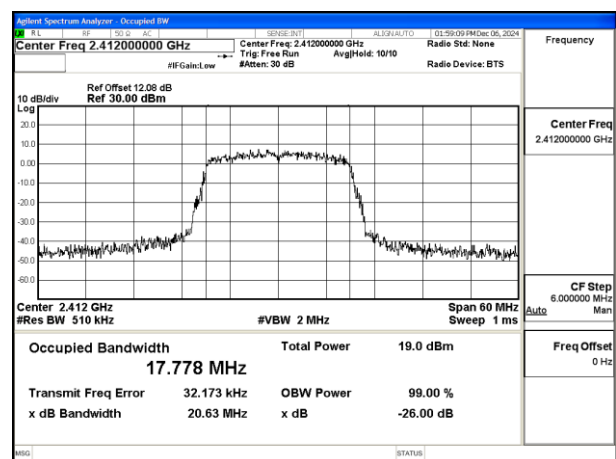
Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain0



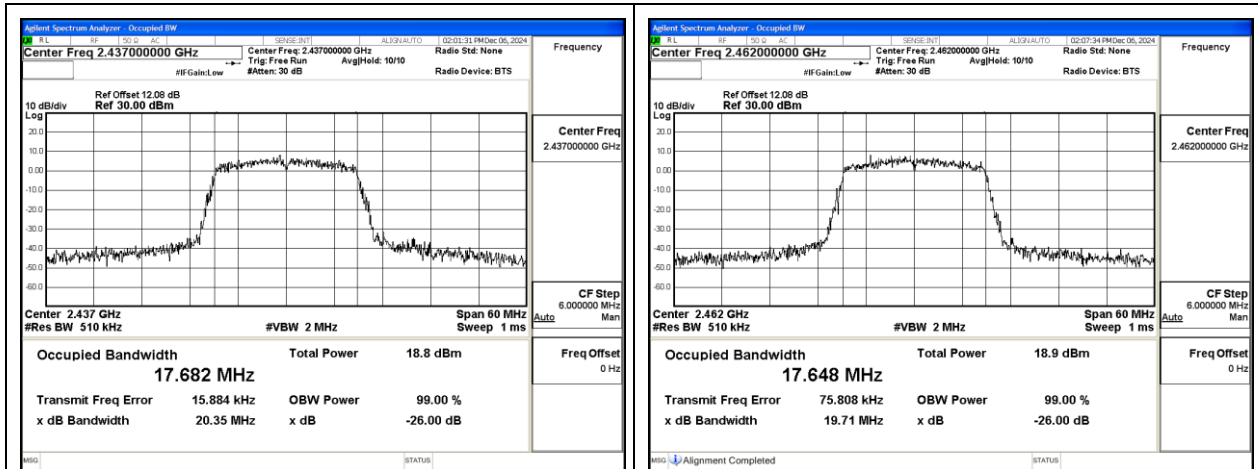
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain1



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Test Report No.: PSU-NQN2412200117RF02



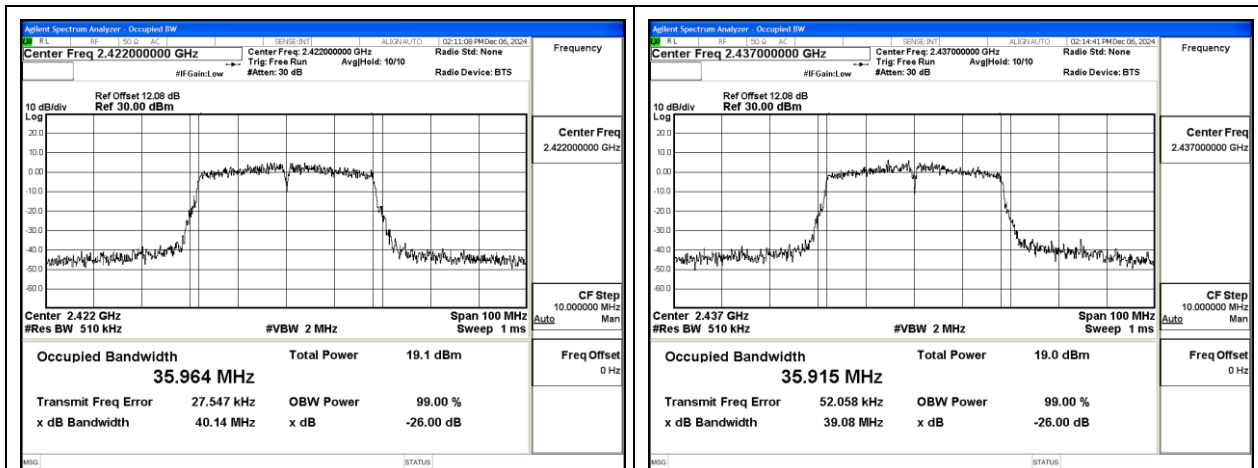
Mode:802.11n HT20 Frequency:2437MHz

Ant:Chain1

Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:2422MHz

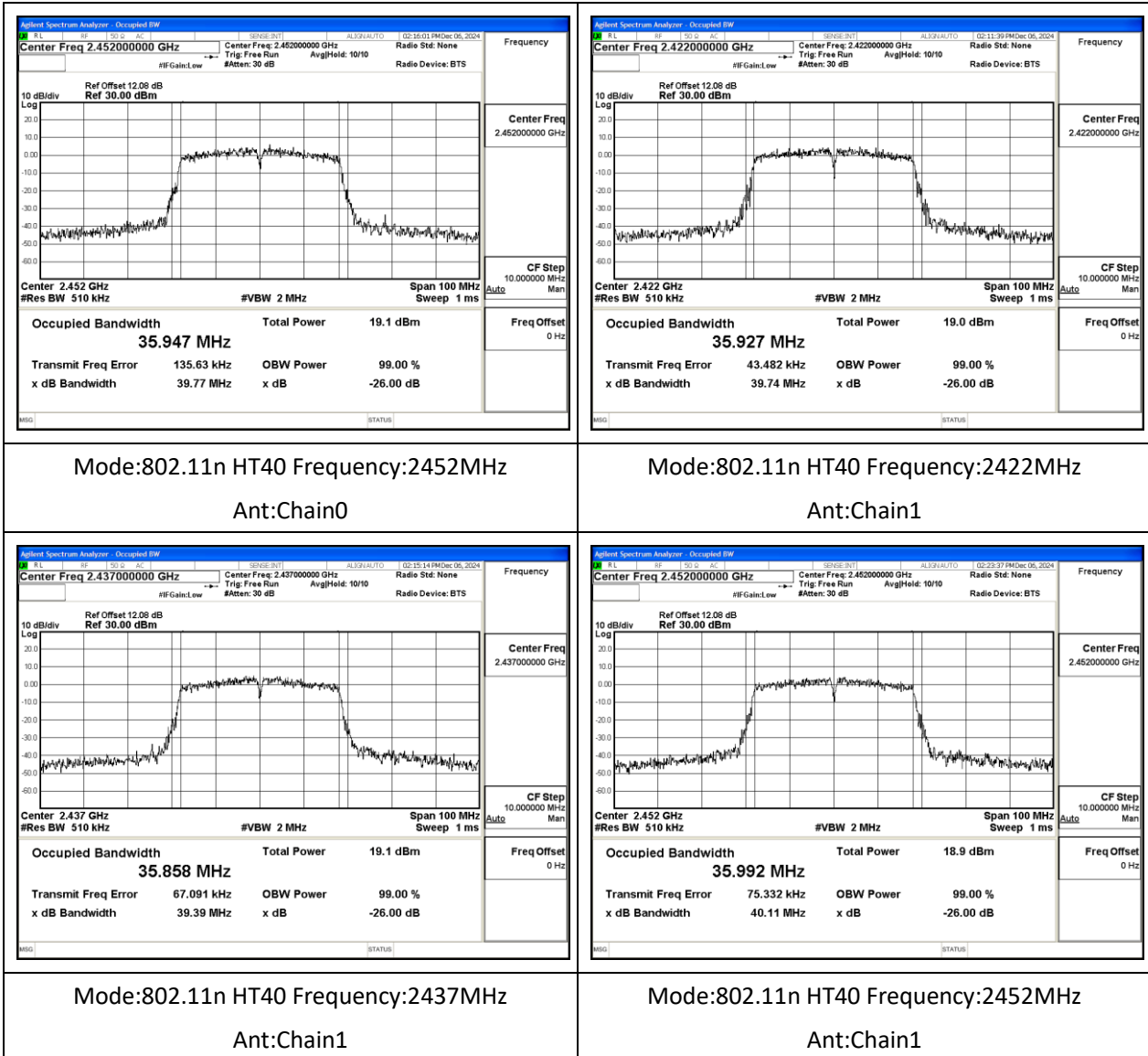
Ant:Chain0

Mode:802.11n HT40 Frequency:2437MHz

Ant:Chain0



**BUREAU VERITAS** Test Report No.: PSU-NQN2412200117RF02





**BUREAU VERITAS** Test Report No.: PSU-NQN2412200117RF02

## MAXIMUM CONDUCTED OUTPUT POWER

### TEST RESULT

NOTE: EIRP = Peak Power + Gain

| Test Mode    | Tones/<br>RU Index | Frequency<br>(MHz) | Antenna | Peak power<br>output<br>(dBm) | Average<br>power<br>output<br>(dBm) | EIRP<br>(dBm) |
|--------------|--------------------|--------------------|---------|-------------------------------|-------------------------------------|---------------|
| 802.11b      | NA                 | 2412               | Chain0  | 18.45                         | 15.53                               | 16.59         |
| 802.11b      | NA                 | 2412               | Chain1  | 18.46                         | 15.55                               | 16.61         |
| 802.11b      | NA                 | 2437               | Chain0  | 18.63                         | 15.78                               | 16.84         |
| 802.11b      | NA                 | 2437               | Chain1  | 18.71                         | 15.86                               | 16.92         |
| 802.11b      | NA                 | 2462               | Chain0  | 18.64                         | 15.73                               | 16.79         |
| 802.11b      | NA                 | 2462               | Chain1  | 18.61                         | 15.69                               | 16.75         |
| 802.11g      | NA                 | 2412               | Chain0  | 22.23                         | 14.90                               | 15.96         |
| 802.11g      | NA                 | 2412               | Chain1  | 22.21                         | 14.96                               | 16.02         |
| 802.11g      | NA                 | 2437               | Chain0  | 22.04                         | 14.72                               | 15.78         |
| 802.11g      | NA                 | 2437               | Chain1  | 22.02                         | 14.66                               | 15.72         |
| 802.11g      | NA                 | 2462               | Chain0  | 22.07                         | 14.75                               | 15.81         |
| 802.11g      | NA                 | 2462               | Chain1  | 22.19                         | 14.88                               | 15.94         |
| 802.11n HT20 | NA                 | 2412               | Chain0  | 21.61                         | 14.31                               | 15.37         |
| 802.11n HT20 | NA                 | 2412               | Chain1  | 21.65                         | 14.34                               | 15.40         |
| 802.11n HT20 | NA                 | 2412               | MIMO    | 24.64                         | 17.34                               | 18.40         |
| 802.11n HT20 | NA                 | 2437               | Chain0  | 21.45                         | 14.02                               | 15.08         |
| 802.11n HT20 | NA                 | 2437               | Chain1  | 21.47                         | 14.04                               | 15.10         |
| 802.11n HT20 | NA                 | 2437               | MIMO    | 24.47                         | 17.04                               | 18.10         |
| 802.11n HT20 | NA                 | 2462               | Chain0  | 21.44                         | 14.12                               | 15.18         |
| 802.11n HT20 | NA                 | 2462               | Chain1  | 21.41                         | 14.13                               | 15.19         |
| 802.11n HT20 | NA                 | 2462               | MIMO    | 24.44                         | 17.14                               | 18.20         |
| 802.11n HT40 | NA                 | 2422               | Chain0  | 21.09                         | 13.61                               | 14.67         |
| 802.11n HT40 | NA                 | 2422               | Chain1  | 21.15                         | 13.69                               | 14.75         |
| 802.11n HT40 | NA                 | 2422               | MIMO    | 24.13                         | 16.66                               | 17.72         |
| 802.11n HT40 | NA                 | 2437               | Chain0  | 21.10                         | 13.57                               | 14.63         |
| 802.11n HT40 | NA                 | 2437               | Chain1  | 21.11                         | 13.56                               | 14.62         |
| 802.11n HT40 | NA                 | 2437               | MIMO    | 24.12                         | 16.58                               | 17.64         |



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|              |    |      |        |       |       |       |
|--------------|----|------|--------|-------|-------|-------|
| 802.11n HT40 | NA | 2452 | Chain0 | 21.21 | 13.70 | 14.76 |
| 802.11n HT40 | NA | 2452 | Chain1 | 21.26 | 13.77 | 14.83 |
| 802.11n HT40 | NA | 2452 | MIMO   | 24.25 | 16.75 | 17.81 |

## MAXIMUM POWER SPECTRAL DENSITY

### TEST RESULT

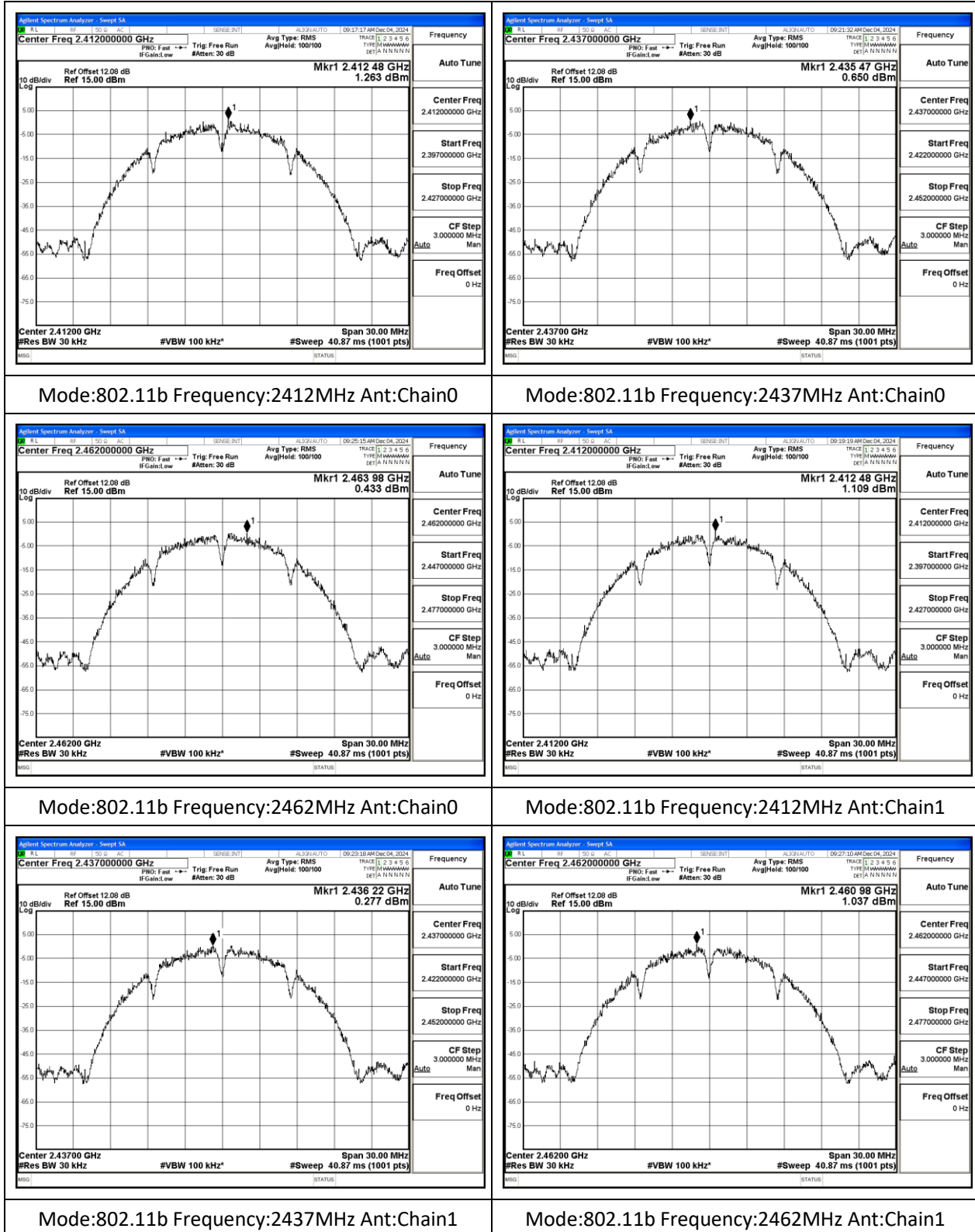
| Test Mode    | Antenna | Tones | Power Density(dBm/3KHz) |              |               |
|--------------|---------|-------|-------------------------|--------------|---------------|
|              |         |       | Channel No.1            | Channel No.6 | Channel No.11 |
|              |         |       | 2412MHz                 | 2437MHz      | 2462MHz       |
| 802.11b      | Chain0  | NA    | -8.737                  | -9.350       | -9.567        |
| 802.11b      | Chain1  | NA    | -8.891                  | -9.723       | -8.963        |
| 802.11g      | Chain0  | NA    | -12.404                 | -11.613      | -12.501       |
| 802.11g      | Chain1  | NA    | -11.136                 | -11.788      | -12.381       |
| 802.11n HT20 | Chain0  | NA    | -13.706                 | -13.443      | -12.607       |
| 802.11n HT20 | Chain1  | NA    | -12.329                 | -12.847      | -12.526       |
| 802.11n HT20 | MIMO    | NA    | -9.953                  | -10.124      | -9.556        |

| Test Mode    | Antenna | Tones | Power Density(dBm/3KHz) |              |              |
|--------------|---------|-------|-------------------------|--------------|--------------|
|              |         |       | Channel No.3            | Channel No.6 | Channel No.9 |
|              |         |       | 2422MHz                 | 2437MHz      | 2452MHz      |
| 802.11n HT40 | Chain0  | NA    | -17.705                 | -18.253      | -18.681      |
| 802.11n HT40 | Chain1  | NA    | -17.663                 | -17.706      | -16.822      |
| 802.11n HT40 | MIMO    | NA    | -14.674                 | -14.961      | -14.642      |



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**TEST GRAPHS**

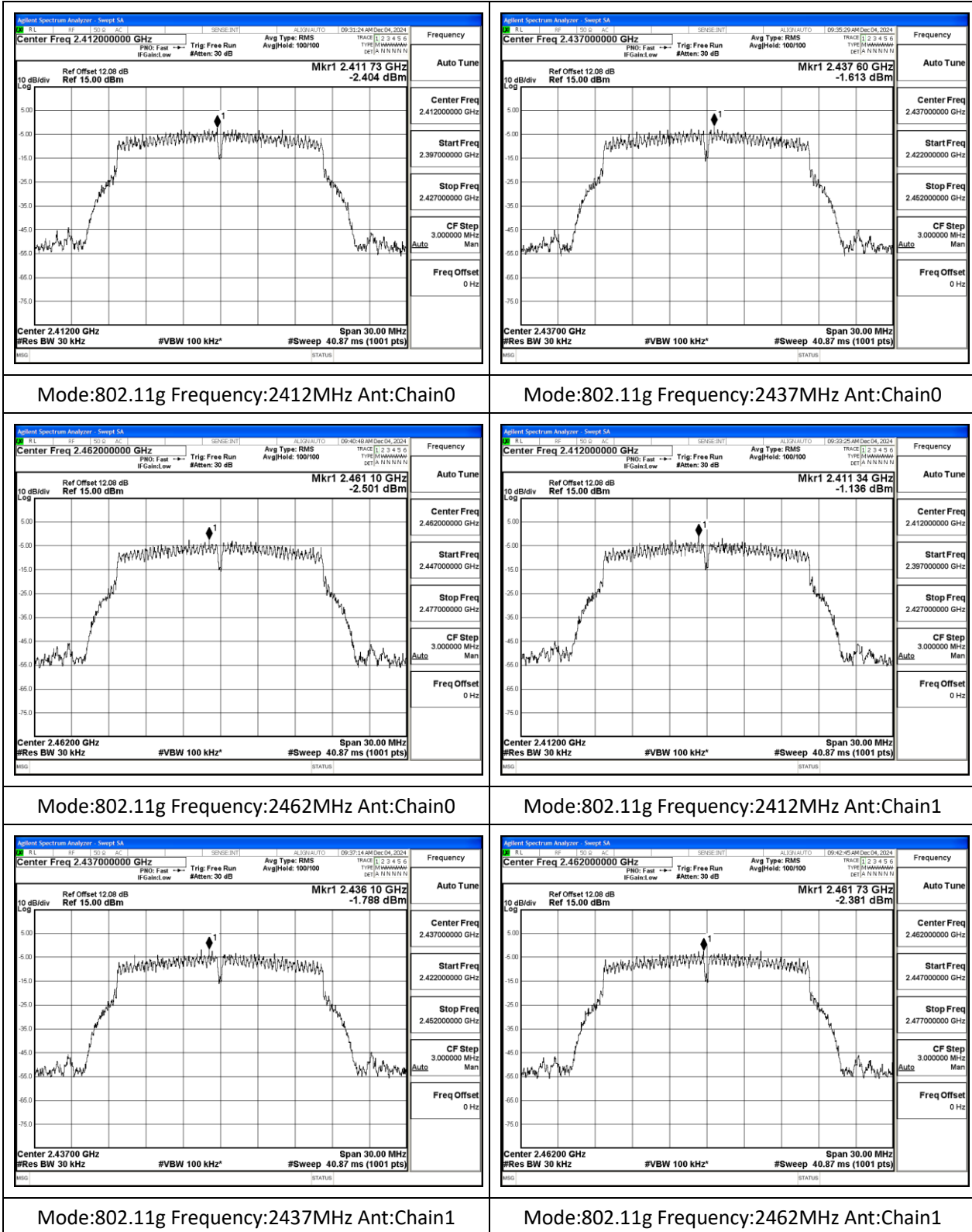
Test Mode: 802.11b





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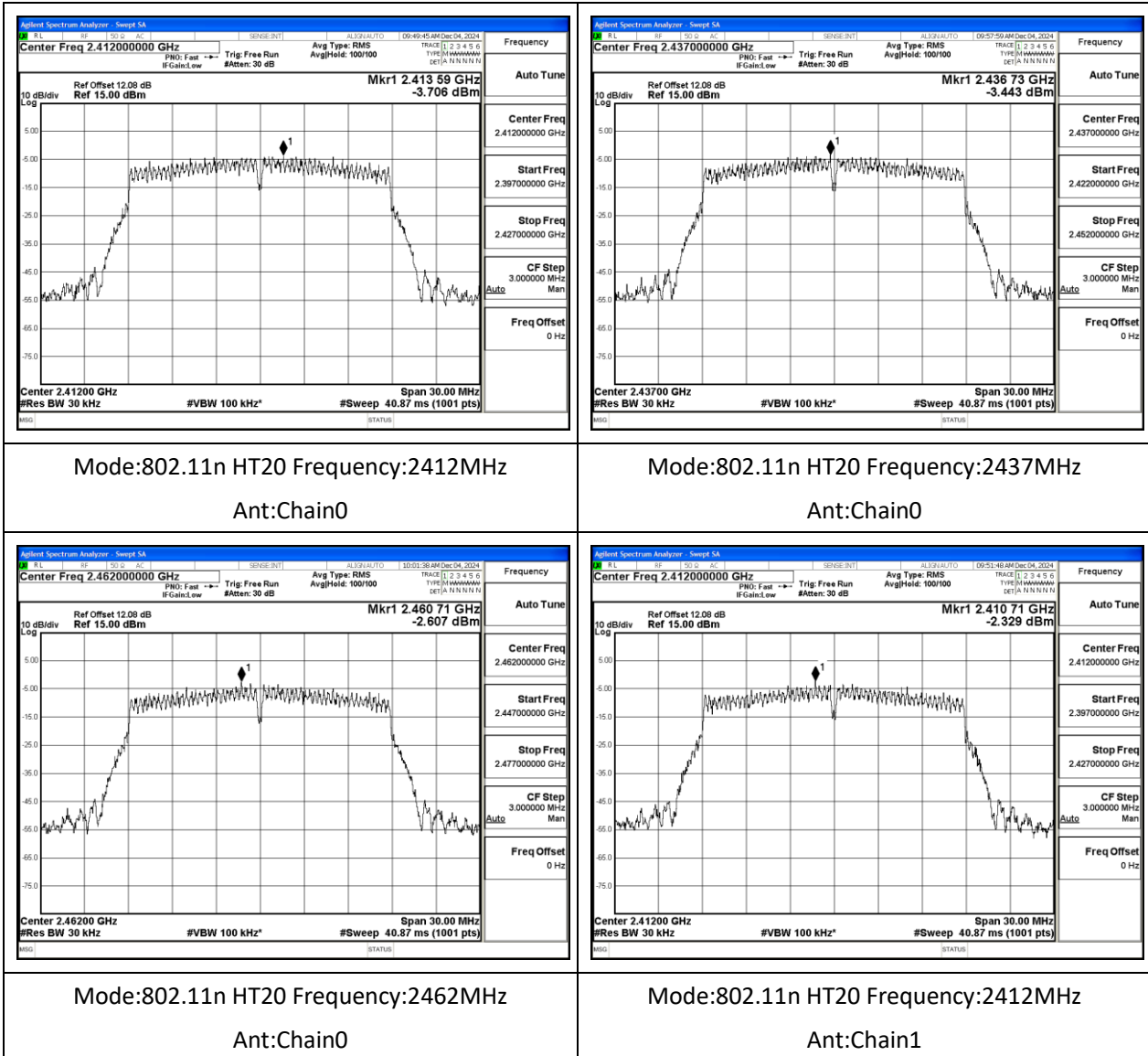
Test Mode: 802.11g



Test Mode: 802.11n HT20



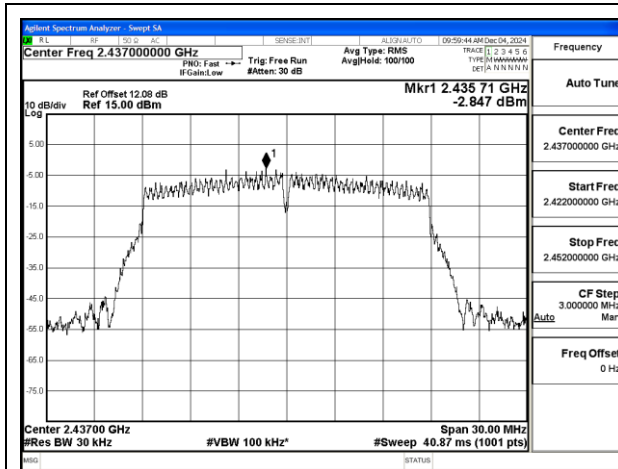
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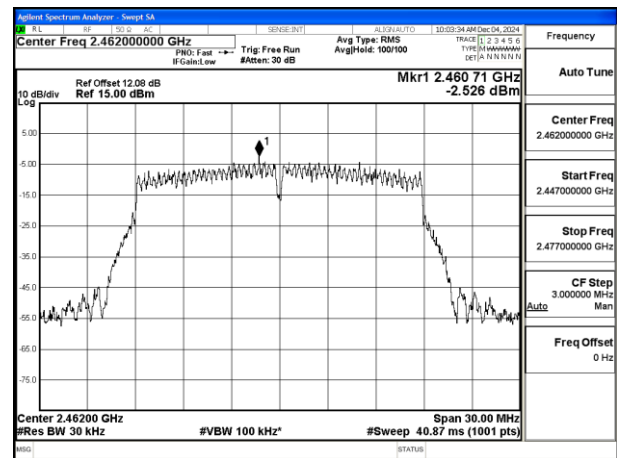
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Mode:802.11n HT20 Frequency:2437MHz

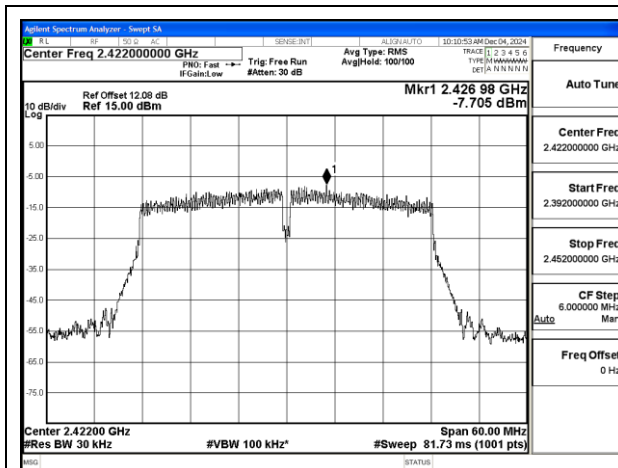
Ant:Chain1



Mode:802.11n HT20 Frequency:2462MHz

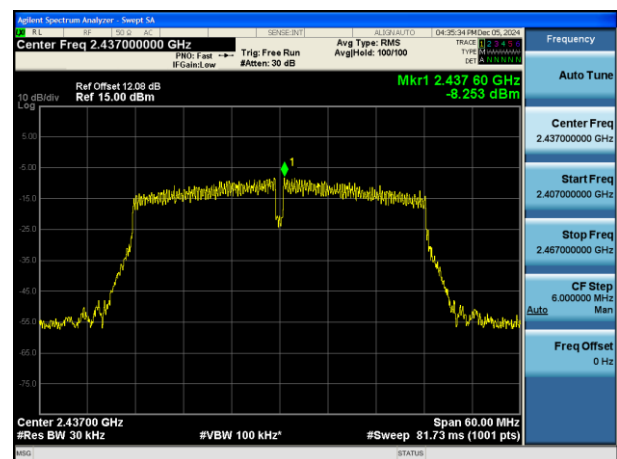
Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain0

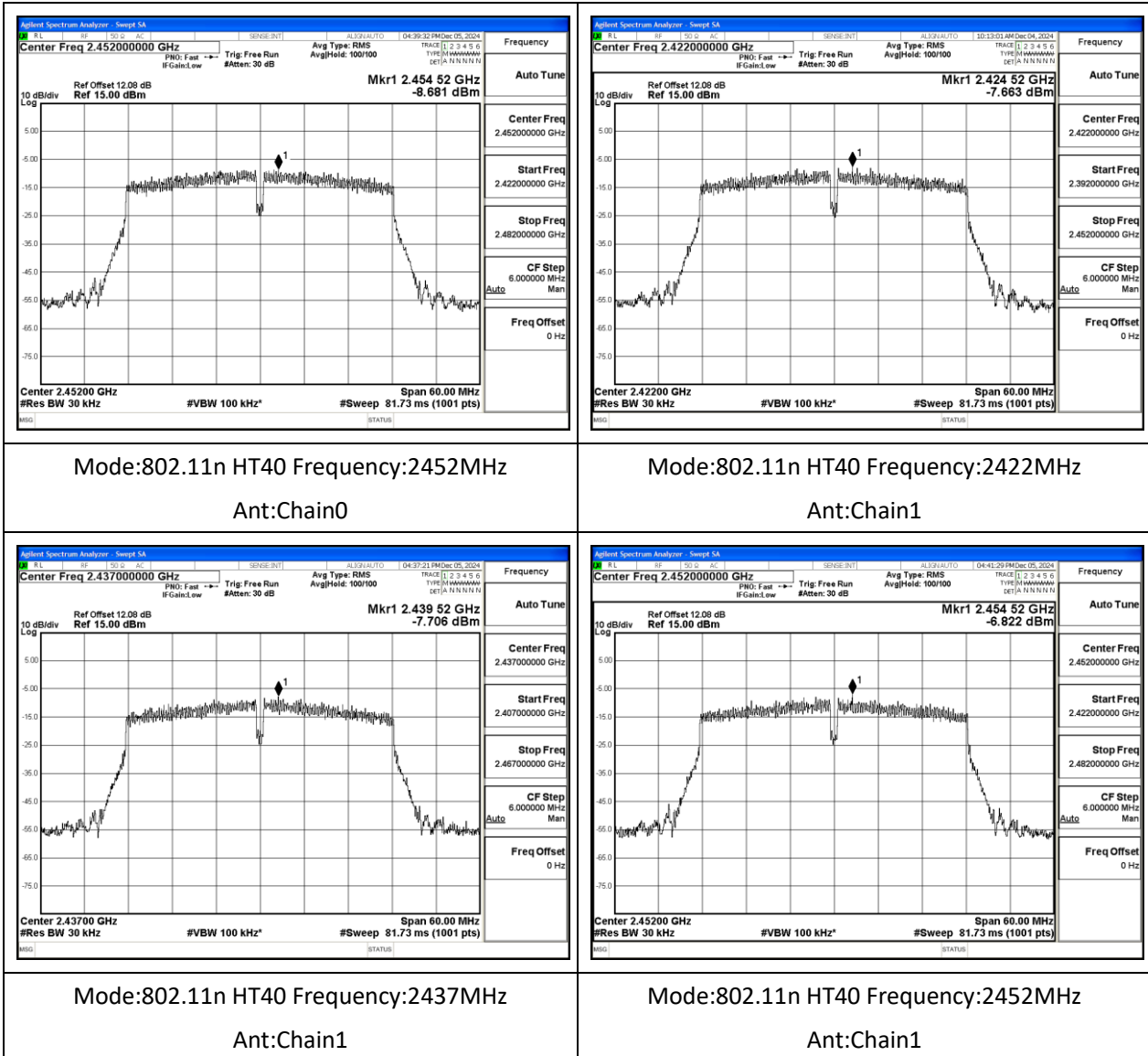


Mode:802.11n HT40 Frequency:2437MHz

Ant:Chain0



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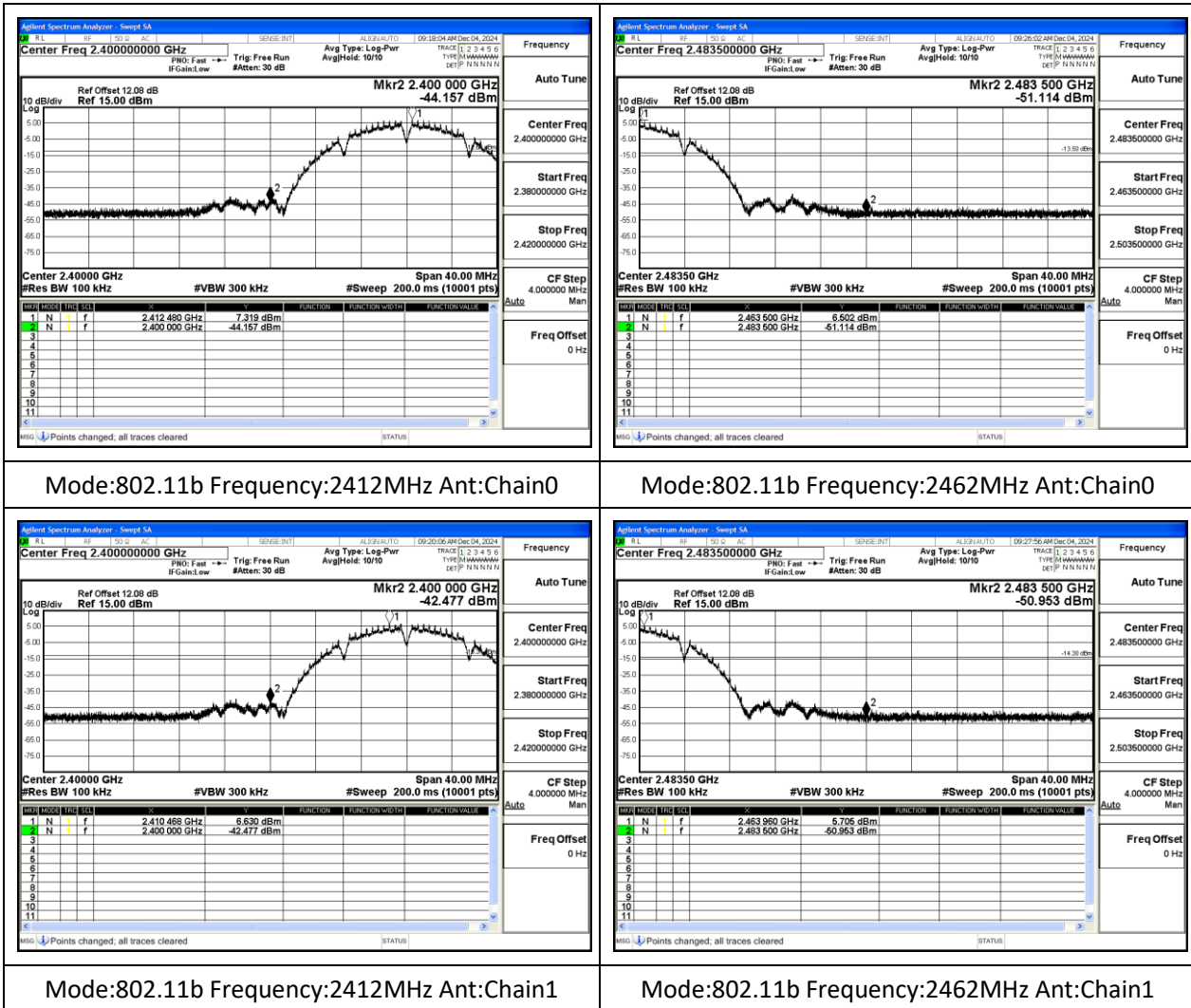


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## BAND EDGE MEASUREMENTS

### TEST GRAPHS

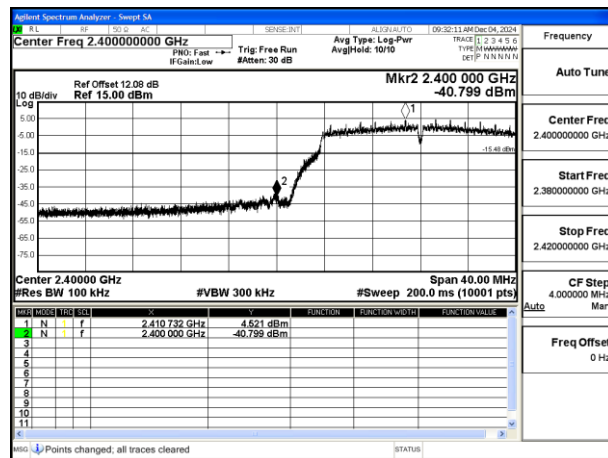
Test Mode: 802.11b



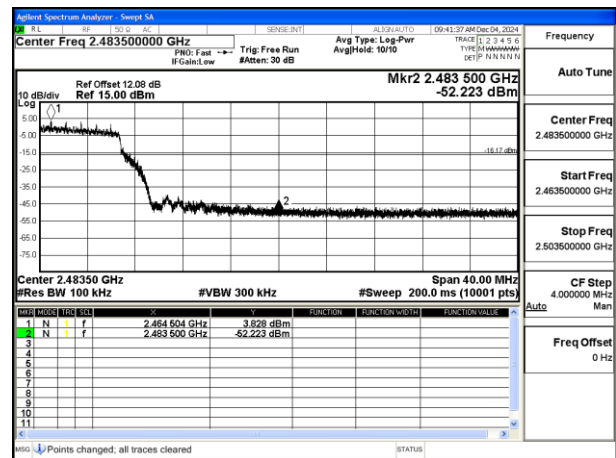


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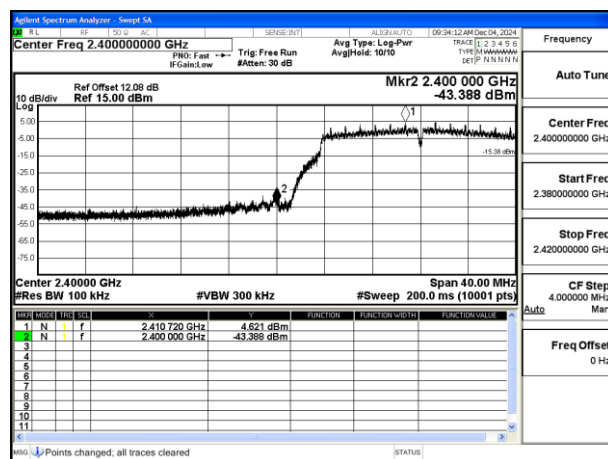
Test Mode: 802.11g



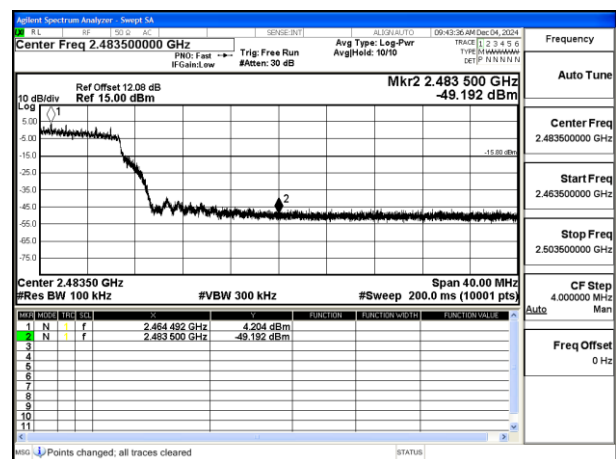
Mode:802.11g Frequency:2412MHz Ant:Chain0



Mode:802.11g Frequency:2462MHz Ant:Chain0



Mode:802.11g Frequency:2412MHz Ant:Chain1

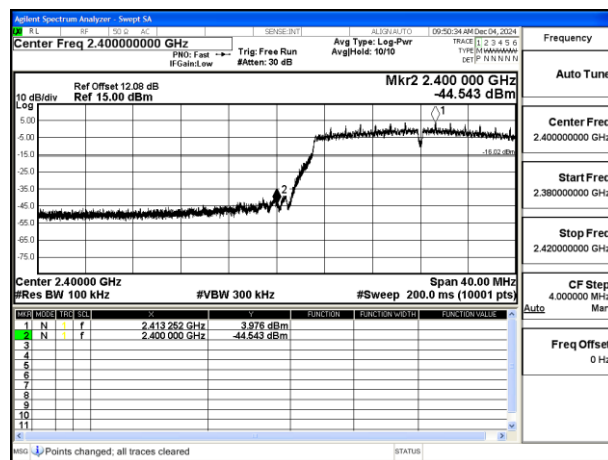


Mode:802.11g Frequency:2462MHz Ant:Chain1



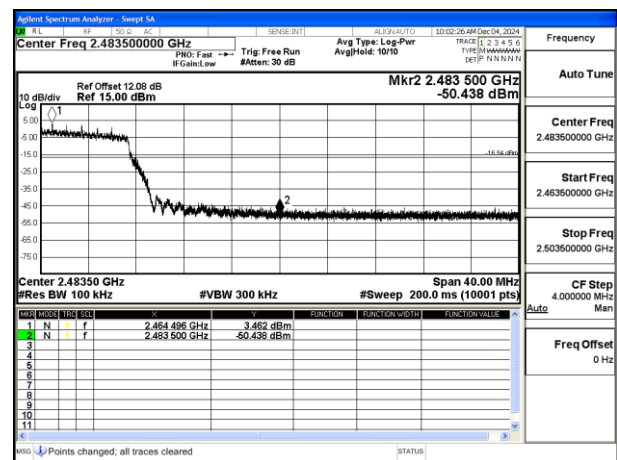
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Test Mode: 802.11n HT20



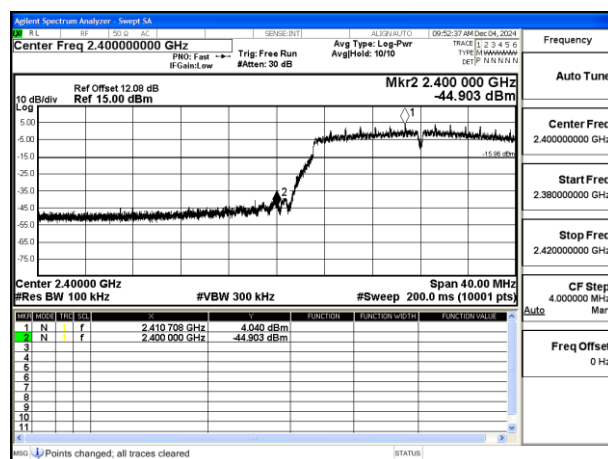
Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain0



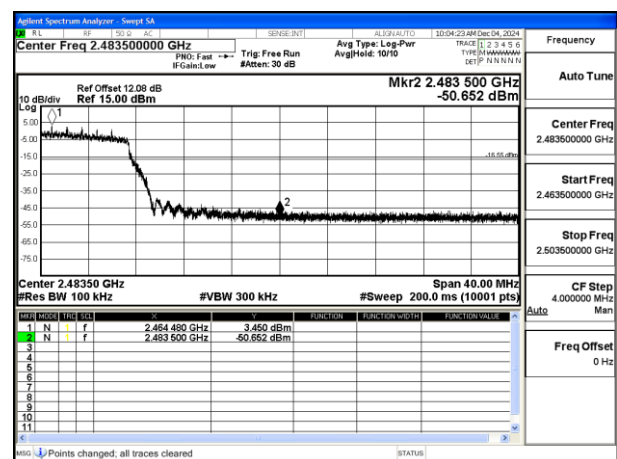
Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain0



Mode:802.11n HT20 Frequency:2412MHz

Ant:Chain1



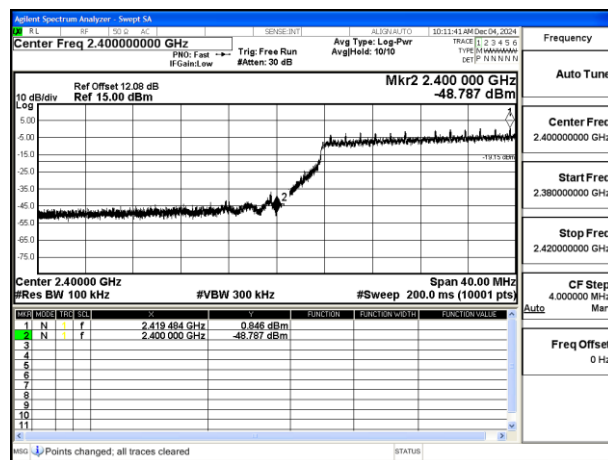
Mode:802.11n HT20 Frequency:2462MHz

Ant:Chain1



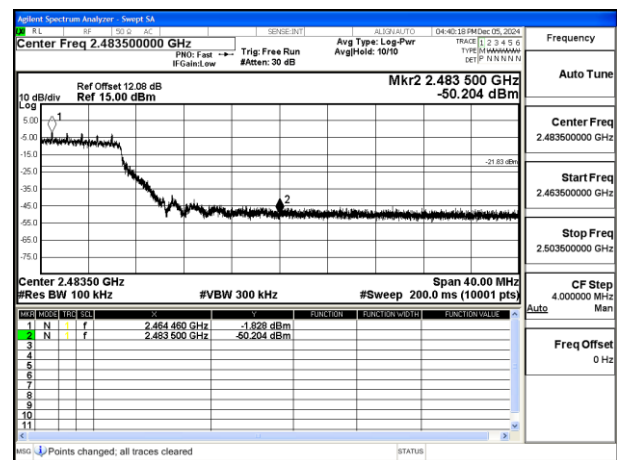
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Test Mode: 802.11n HT40



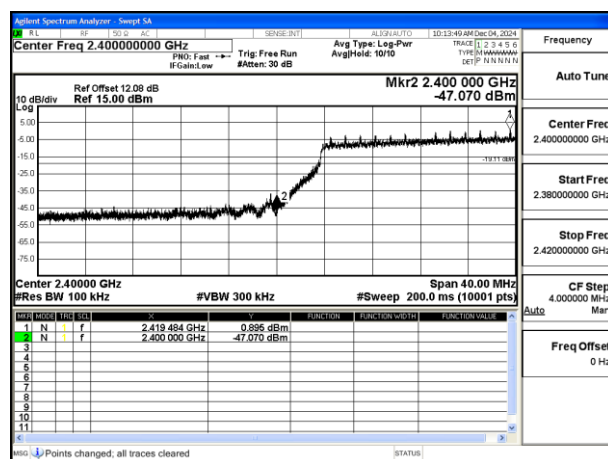
Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain0



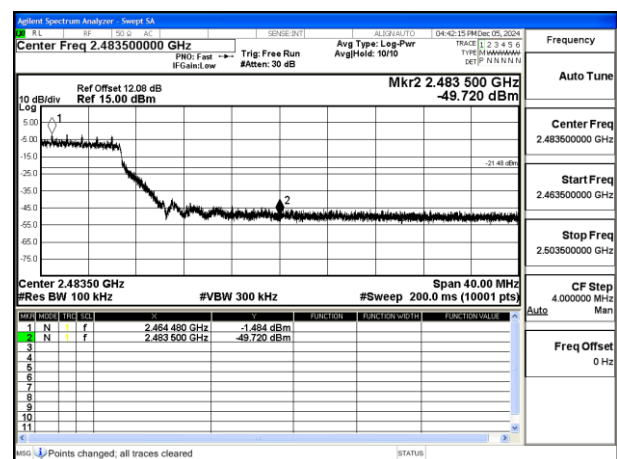
Mode:802.11n HT40 Frequency:2452MHz

Ant:Chain0



Mode:802.11n HT40 Frequency:2422MHz

Ant:Chain1



Mode:802.11n HT40 Frequency:2452MHz

Ant:Chain1

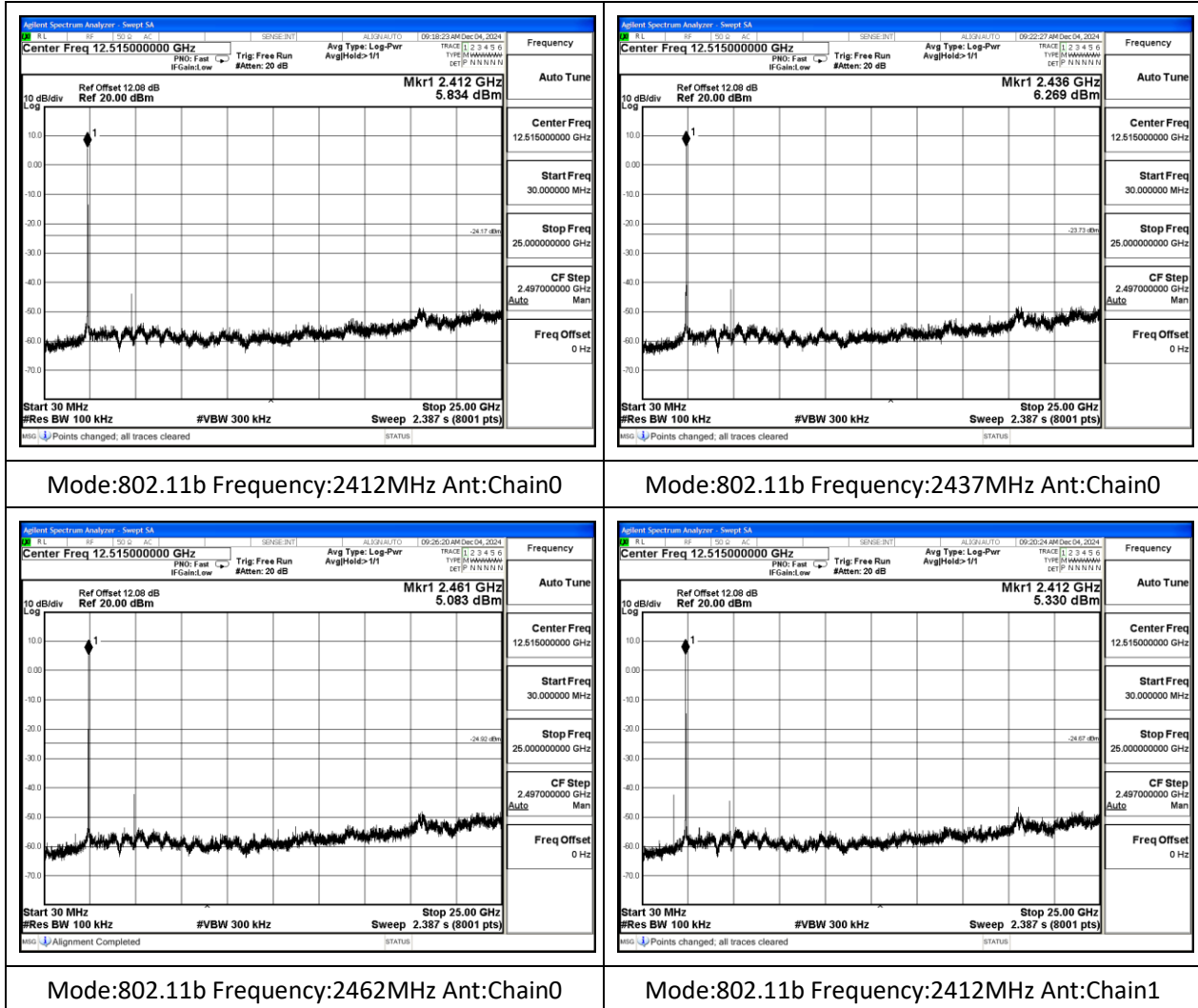


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VERITAS

Test Report No.: PSU-NQN2412200117RF02

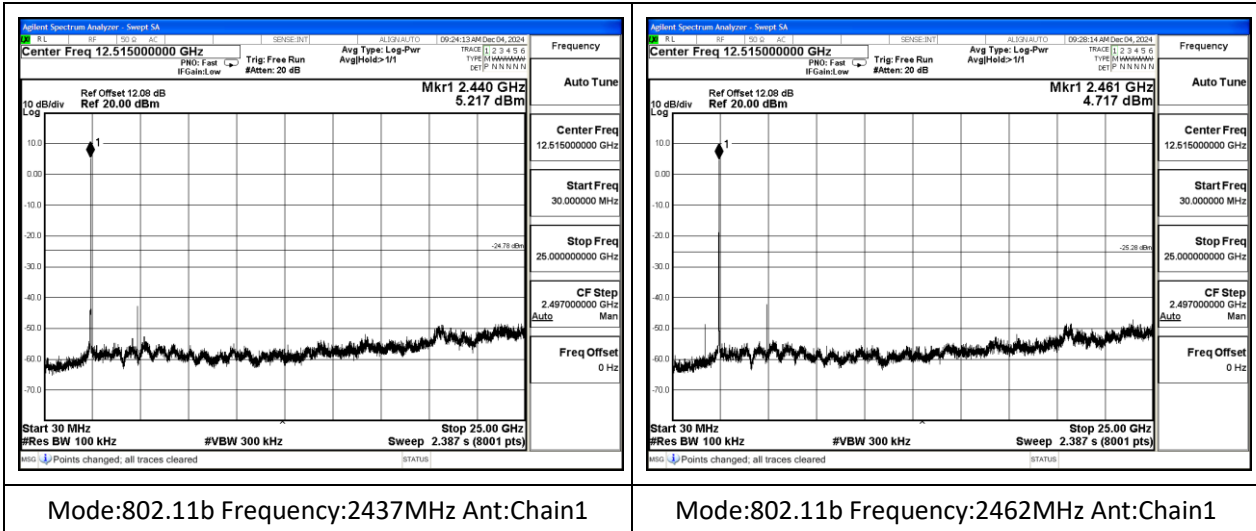
## CONDUCTED SPURIOUS EMISSION TEST GRAPHS

Test Mode: 802.11b





**BUREAU VERITAS** Test Report No.: PSU-NQN2412200117RF02



Test Mode: 802.11g

