

## Spurious Conducted Emissions - Antenna A-B

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

### TEST EQUIPMENT

| Description       | Manufacturer       | Model            | ID  | Last Cal. | Interval |
|-------------------|--------------------|------------------|-----|-----------|----------|
| Attenuator        | Fairview Microwave | SA4014-20        | TKE | 2/12/2013 | 12       |
| Signal Generator  | Agilent            | N5183A           | TIA | 1/27/2012 | 36       |
| Spectrum Analyzer | Agilent            | E4446A           | AAT | 6/28/2012 | 24       |
| NC02 Cable        | ESM Cable Corp     | TBBK-141 KMKM-72 | NC5 | 7/3/2013  | 12       |

### TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



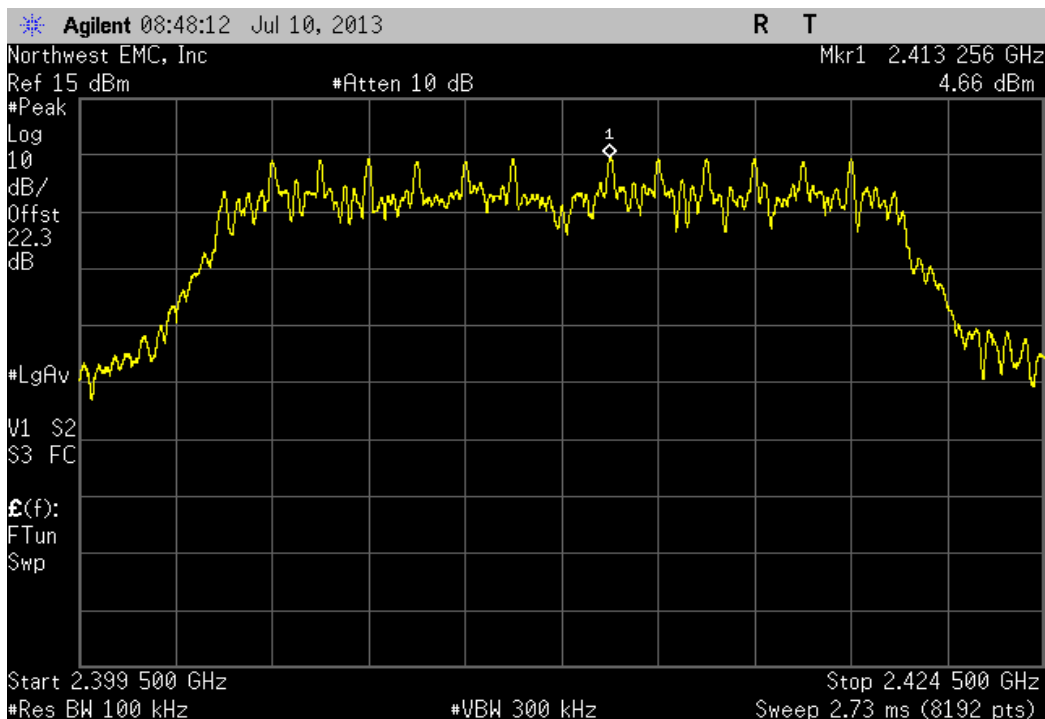
## Spurious Conducted Emissions - Antenna A-B

XMIT 2013.02.28  
PsaTx 2013.06.07

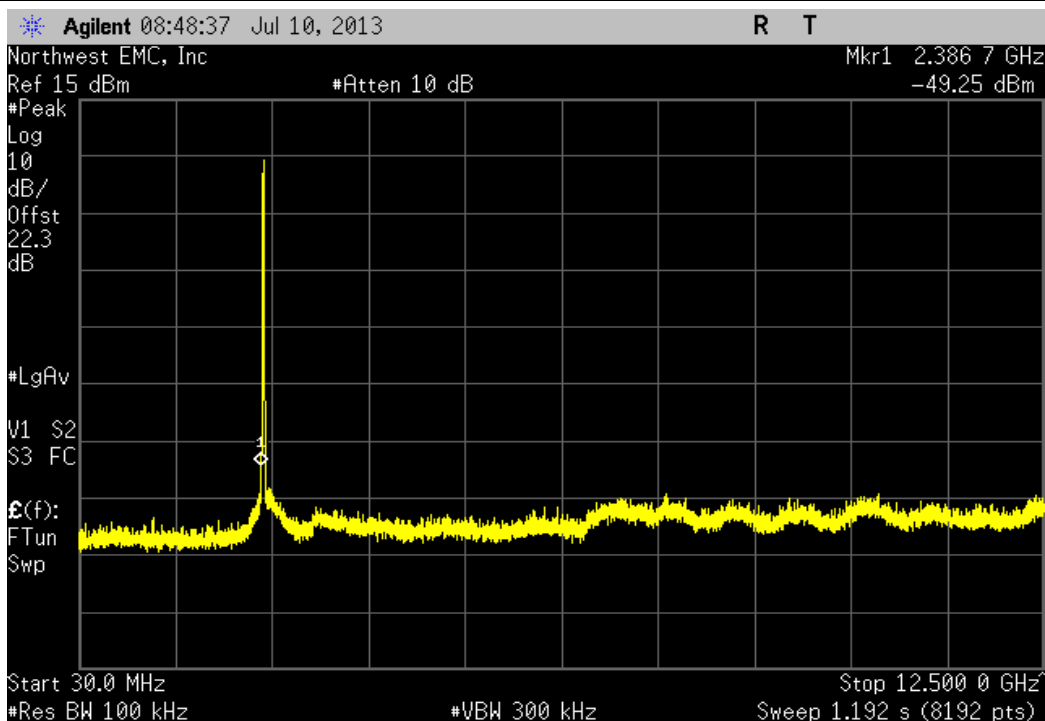
|                                                                                                                                                                        |   |                                                                                             |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|---------------------------|
| EUT: 1601                                                                                                                                                              |   | Work Order: MCSO1665                                                                        |                           |
| Serial Number: 006079632553                                                                                                                                            |   | Date: 07/10/13                                                                              |                           |
| Customer: Microsoft Corporation                                                                                                                                        |   | Temperature: 23°C                                                                           |                           |
| Attendees: None                                                                                                                                                        |   | Humidity: 44%                                                                               |                           |
| Project: None                                                                                                                                                          |   | Barometric Pres.: 1018                                                                      |                           |
| Tested by: Brandon Hobbs and Matthew Barnes                                                                                                                            |   | Power: 110VAC/60Hz                                                                          |                           |
|                                                                                                                                                                        |   | Job Site: NC02                                                                              |                           |
| TEST SPECIFICATIONS                                                                                                                                                    |   | Test Method                                                                                 |                           |
| FCC 15.247:2013                                                                                                                                                        |   | ANSI C63.10:2009                                                                            |                           |
| COMMENTS                                                                                                                                                               |   |                                                                                             |                           |
| EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset. |   |                                                                                             |                           |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                          |   |                                                                                             |                           |
| None                                                                                                                                                                   |   |                                                                                             |                           |
| Configuration #                                                                                                                                                        | 1 | Signature  |                           |
|                                                                                                                                                                        |   | Frequency Range                                                                             | Value Limit Result        |
| Chain A                                                                                                                                                                |   |                                                                                             |                           |
| 20 MHz                                                                                                                                                                 |   |                                                                                             |                           |
| 2400 MHz - 2483.5 MHz Band                                                                                                                                             |   |                                                                                             |                           |
| 802.11(n) MCS8                                                                                                                                                         |   |                                                                                             |                           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                           | -53.91 dBc ≤ -20 dBc Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                           | -53.16 dBc ≤ -20 dBc Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                 | N/A N/A N/A               |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                           | -59.24 dBc ≤ -20 dBc Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                           | -55.1 dBc ≤ -20 dBc Pass  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -58.57 dBc ≤ -20 dBc Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -54.97 dBc ≤ -20 dBc Pass |
| 802.11(n) MCS15                                                                                                                                                        |   |                                                                                             |                           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                           | -52.65 dBc ≤ -20 dBc Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                           | -54.91 dBc ≤ -20 dBc Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                 | N/A N/A N/A               |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                           | -59.58 dBc ≤ -20 dBc Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                           | -54.46 dBc ≤ -20 dBc Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -58.87 dBc ≤ -20 dBc Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -54.33 dBc ≤ -20 dBc Pass |
| 5725 MHz - 5850 MHz Band                                                                                                                                               |   |                                                                                             |                           |
| 802.11(n) MCS8                                                                                                                                                         |   |                                                                                             |                           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -49.59 dBc ≤ -20 dBc Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -48.44 dBc ≤ -20 dBc Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                             | -45.68 dBc ≤ -20 dBc Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                             | -36.64 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -51.58 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -49.58 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                             | -46.86 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                             | -36.32 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 30 MHz - 12.5 GHz                                                                           | -52.2 dBc ≤ -20 dBc Pass  |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 12.5 GHz - 25 GHz                                                                           | -47.46 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 25 GHz - 32 GHz                                                                             | -44.98 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 32 GHz - 40 GHz                                                                             | -35.41 dBc ≤ -20 dBc Pass |
| 802.11(n) MCS15                                                                                                                                                        |   |                                                                                             |                           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -50.59 dBc ≤ -20 dBc Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -47.99 dBc ≤ -20 dBc Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                             | -46.12 dBc ≤ -20 dBc Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                             | -36.81 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -51.19 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -49.28 dBc ≤ -20 dBc Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                             | -45.4 dBc ≤ -20 dBc Pass  |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                             | -36.47 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 30 MHz - 12.5 GHz                                                                           | -52.02 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 12.5 GHz - 25 GHz                                                                           | -46.52 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 25 GHz - 32 GHz                                                                             | -45.38 dBc ≤ -20 dBc Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 32 GHz - 40 GHz                                                                             | -36.03 dBc ≤ -20 dBc Pass |
| 40 MHz                                                                                                                                                                 |   |                                                                                             |                           |
| 2400 MHz - 2483.5 MHz Band                                                                                                                                             |   |                                                                                             |                           |
| 802.11(n) MCS8                                                                                                                                                         |   |                                                                                             |                           |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -45.08 dBc ≤ -20 dBc Pass |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -52.82 dBc ≤ -20 dBc Pass |
| Mid Channel 4/8, 2437 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Mid Channel 4/8, 2437 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -56.75 dBc ≤ -20 dBc Pass |
| Mid Channel 4/8, 2437 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -52.23 dBc ≤ -20 dBc Pass |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | 30 MHz - 12.5 GHz                                                                           | -52.71 dBc ≤ -20 dBc Pass |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | 12.5 GHz - 25 GHz                                                                           | -51.75 dBc ≤ -20 dBc Pass |
| 802.11(n) MCS15                                                                                                                                                        |   |                                                                                             |                           |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -44.08 dBc ≤ -20 dBc Pass |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -51.86 dBc ≤ -20 dBc Pass |
| Mid Channel 4/8, 2437 MHz                                                                                                                                              |   | Fundamental                                                                                 | N/A N/A N/A               |
| Mid Channel 4/8, 2437 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                           | -40.9 dBc ≤ -20 dBc Pass  |
| Mid Channel 4/8, 2437 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                           | -52.32 dBc ≤ -20 dBc Pass |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | 30 MHz - 12.5 GHz                                                                           | -51.09 dBc ≤ -20 dBc Pass |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | 12.5 GHz - 25 GHz                                                                           | -50.86 dBc ≤ -20 dBc Pass |
| 5725 MHz - 5850 MHz Band                                                                                                                                               |   |                                                                                             |                           |
| 802.11(n) MCS8                                                                                                                                                         |   |                                                                                             |                           |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | Fundamental                                                                                 | N/A N/A N/A               |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | 30 MHz - 12.5 GHz                                                                           | -47.85 dBc ≤ -20 dBc Pass |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | 12.5 GHz - 25 GHz                                                                           | -46.2 dBc ≤ -20 dBc Pass  |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | 25 GHz - 32 GHz                                                                             | -43 dBc ≤ -20 dBc Pass    |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | 32 GHz - 40 GHz                                                                             | -33.16 dBc ≤ -20 dBc Pass |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | Fundamental                                                                                 | N/A N/A N/A               |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | 30 MHz - 12.5 GHz                                                                           | -49.87 dBc ≤ -20 dBc Pass |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | 12.5 GHz - 25 GHz                                                                           | -46.21 dBc ≤ -20 dBc Pass |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | 25 GHz - 32 GHz                                                                             | -43.2 dBc ≤ -20 dBc Pass  |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | 32 GHz - 40 GHz                                                                             | -33.62 dBc ≤ -20 dBc Pass |

|         |                                | Frequency Range   | Value      | Limit     | Result |
|---------|--------------------------------|-------------------|------------|-----------|--------|
| Chain B |                                |                   |            |           |        |
| 20 MHz  | 2400 MHz - 2483.5 MHz Band     |                   |            |           |        |
|         | 802.11(n) MCS15                |                   |            |           |        |
|         | Low Channel 149/153, 5755 MHz  | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 149/153, 5755 MHz  | 30 MHz - 12.5 GHz | -47.54 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 12.5 GHz - 25 GHz | -45.75 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 25 GHz - 32 GHz   | -42.85 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 32 GHz - 40 GHz   | -33.5 dBc  | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | Fundamental       | N/A        | N/A       | N/A    |
|         | High Channel 157/161, 5795 MHz | 30 MHz - 12.5 GHz | -49.11 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 12.5 GHz - 25 GHz | -46.4 dBc  | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 25 GHz - 32 GHz   | -43.37 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 32 GHz - 40 GHz   | -34.07 dBc | ≤ -20 dBc | Pass   |
|         | 802.11(n) MCS8                 |                   |            |           |        |
|         | Low Channel 1, 2412 MHz        | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 1, 2412 MHz        | 30 MHz - 12.5 GHz | -54.55 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 1, 2412 MHz        | 12.5 GHz - 25 GHz | -54.08 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 6, 2437 MHz        | Fundamental       | N/A        | N/A       | N/A    |
|         | Mid Channel 6, 2437 MHz        | 30 MHz - 12.5 GHz | -58.04 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 6, 2437 MHz        | 12.5 GHz - 25 GHz | -53.38 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 11, 2462 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | High Channel 11, 2462 MHz      | 30 MHz - 12.5 GHz | -58.71 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 11, 2462 MHz      | 12.5 GHz - 25 GHz | -54.66 dBc | ≤ -20 dBc | Pass   |
|         | 802.11(n) MCS15                |                   |            |           |        |
|         | Low Channel 1, 2412 MHz        | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 1, 2412 MHz        | 30 MHz - 12.5 GHz | -56.47 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 1, 2412 MHz        | 12.5 GHz - 25 GHz | -53.21 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 6, 2437 MHz        | Fundamental       | N/A        | N/A       | N/A    |
|         | Mid Channel 6, 2437 MHz        | 30 MHz - 12.5 GHz | -58.4 dBc  | ≤ -20 dBc | Pass   |
|         | Mid Channel 6, 2437 MHz        | 12.5 GHz - 25 GHz | -54.13 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 11, 2462 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | High Channel 11, 2462 MHz      | 30 MHz - 12.5 GHz | -58.26 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 11, 2462 MHz      | 12.5 GHz - 25 GHz | -54.23 dBc | ≤ -20 dBc | Pass   |
|         | 5725 MHz - 5850 MHz Band       |                   |            |           |        |
|         | 802.11(n) MCS8                 |                   |            |           |        |
|         | Low Channel 149, 5745 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 149, 5745 MHz      | 30 MHz - 12.5 GHz | -51.77 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149, 5745 MHz      | 12.5 GHz - 25 GHz | -45.81 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149, 5745 MHz      | 25 GHz - 32 GHz   | -44.44 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149, 5745 MHz      | 32 GHz - 40 GHz   | -34.42 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 157, 5785 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Mid Channel 157, 5785 MHz      | 30 MHz - 12.5 GHz | -51.84 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 157, 5785 MHz      | 12.5 GHz - 25 GHz | -47.65 dBc | ≤ -20 dBc | Pass   |
|         | 802.11(n) MCS15                |                   |            |           |        |
|         | Low Channel 149, 5745 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 149, 5745 MHz      | 30 MHz - 12.5 GHz | -52.31 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149, 5745 MHz      | 12.5 GHz - 25 GHz | -46.68 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149, 5745 MHz      | 25 GHz - 32 GHz   | -44.66 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149, 5745 MHz      | 32 GHz - 40 GHz   | -35.18 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 157, 5785 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Mid Channel 157, 5785 MHz      | 30 MHz - 12.5 GHz | -51.72 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 157, 5785 MHz      | 12.5 GHz - 25 GHz | -47.43 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 157, 5785 MHz      | 25 GHz - 32 GHz   | -45.23 dBc | ≤ -20 dBc | Pass   |
|         | 40 MHz                         |                   |            |           |        |
|         | 2400 MHz - 2483.5 MHz Band     |                   |            |           |        |
|         | 802.11(n) MCS8                 |                   |            |           |        |
|         | Low Channel 1/5, 2422 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 1/5, 2422 MHz      | 30 MHz - 12.5 GHz | -46.88 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 1/5, 2422 MHz      | 12.5 GHz - 25 GHz | -50.48 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 4/8, 2437 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Mid Channel 4/8, 2437 MHz      | 30 MHz - 12.5 GHz | -56.08 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 4/8, 2437 MHz      | 12.5 GHz - 25 GHz | -50.31 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 7/11, 2452 MHz    | Fundamental       | N/A        | N/A       | N/A    |
|         | 802.11(n) MCS15                |                   |            |           |        |
|         | Low Channel 1/5, 2422 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 1/5, 2422 MHz      | 30 MHz - 12.5 GHz | -45.4 dBc  | ≤ -20 dBc | Pass   |
|         | Low Channel 1/5, 2422 MHz      | 12.5 GHz - 25 GHz | -50.6 dBc  | ≤ -20 dBc | Pass   |
|         | Mid Channel 4/8, 2437 MHz      | Fundamental       | N/A        | N/A       | N/A    |
|         | Mid Channel 4/8, 2437 MHz      | 30 MHz - 12.5 GHz | -54.54 dBc | ≤ -20 dBc | Pass   |
|         | Mid Channel 4/8, 2437 MHz      | 12.5 GHz - 25 GHz | -51.21 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 7/11, 2452 MHz    | Fundamental       | N/A        | N/A       | N/A    |
|         | High Channel 7/11, 2452 MHz    | 30 MHz - 12.5 GHz | -54.57 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 7/11, 2452 MHz    | 12.5 GHz - 25 GHz | -51.25 dBc | ≤ -20 dBc | Pass   |
|         | 5725 MHz - 5850 MHz Band       |                   |            |           |        |
|         | 802.11(n) MCS8                 |                   |            |           |        |
|         | Low Channel 149/153, 5755 MHz  | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 149/153, 5755 MHz  | 30 MHz - 12.5 GHz | -49.2 dBc  | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 12.5 GHz - 25 GHz | -44.93 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 25 GHz - 32 GHz   | -41.85 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 32 GHz - 40 GHz   | -31.98 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | Fundamental       | N/A        | N/A       | N/A    |
|         | High Channel 157/161, 5795 MHz | 30 MHz - 12.5 GHz | -49.02 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 12.5 GHz - 25 GHz | -44.69 dBc | ≤ -20 dBc | Pass   |
|         | 802.11(n) MCS15                |                   |            |           |        |
|         | Low Channel 149/153, 5755 MHz  | Fundamental       | N/A        | N/A       | N/A    |
|         | Low Channel 149/153, 5755 MHz  | 30 MHz - 12.5 GHz | -48.81 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 12.5 GHz - 25 GHz | -44.52 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 25 GHz - 32 GHz   | -41.58 dBc | ≤ -20 dBc | Pass   |
|         | Low Channel 149/153, 5755 MHz  | 32 GHz - 40 GHz   | -32.75 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | Fundamental       | N/A        | N/A       | N/A    |
|         | High Channel 157/161, 5795 MHz | 30 MHz - 12.5 GHz | -49.77 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 12.5 GHz - 25 GHz | -43.19 dBc | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 25 GHz - 32 GHz   | -41 dBc    | ≤ -20 dBc | Pass   |
|         | High Channel 157/161, 5795 MHz | 32 GHz - 40 GHz   | -32.81 dBc | ≤ -20 dBc | Pass   |

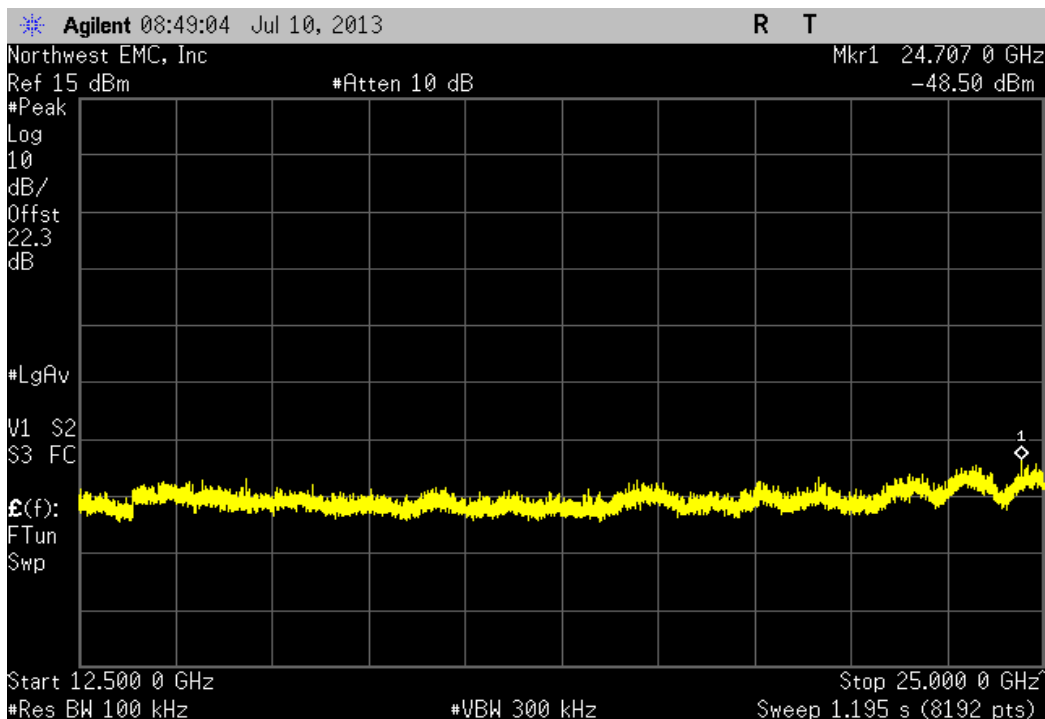
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz |  |  |  |       |       |        |
|--------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                      |  |  |  | Value | Limit | Result |
| Fundamental                                                                          |  |  |  | N/A   | N/A   | N/A    |



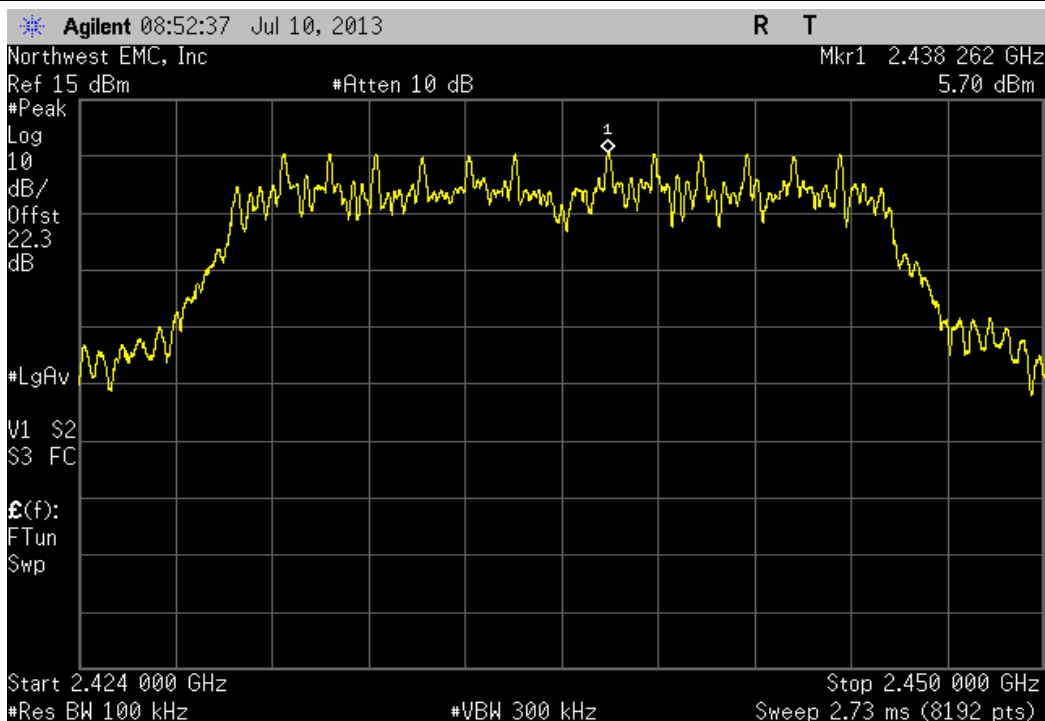
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz |  |  |  |            |           |        |
|--------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                      |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                    |  |  |  | -53.91 dBc | ≤ -20 dBc | Pass   |



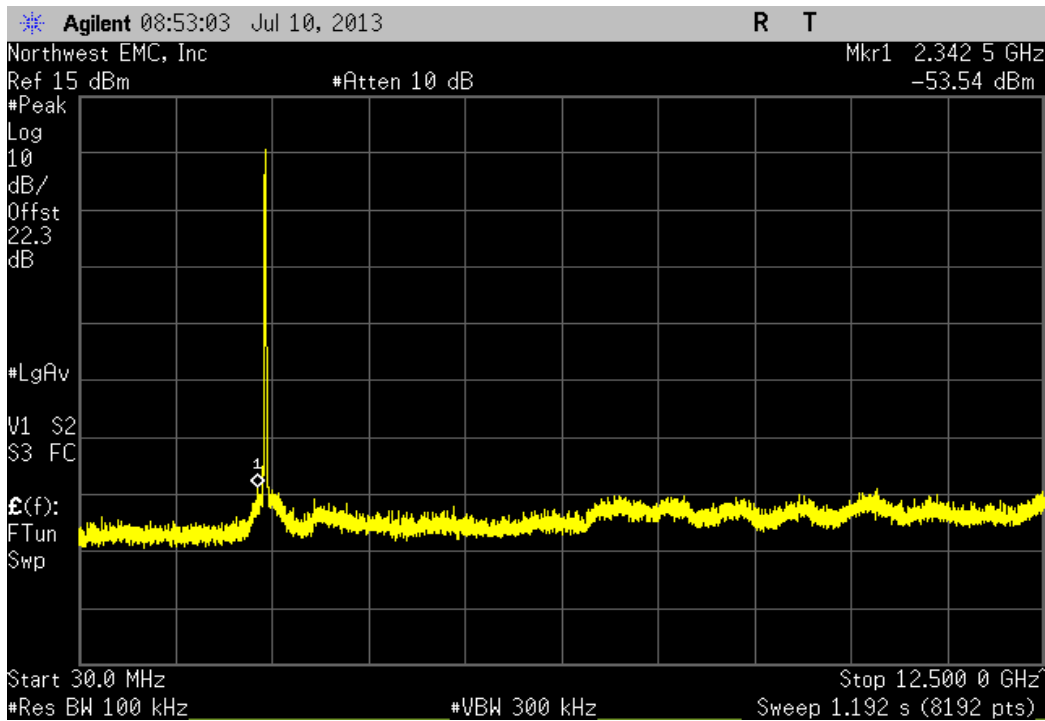
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                    | -53.16 dBc | ≤ -20 dBc | Pass   |  |



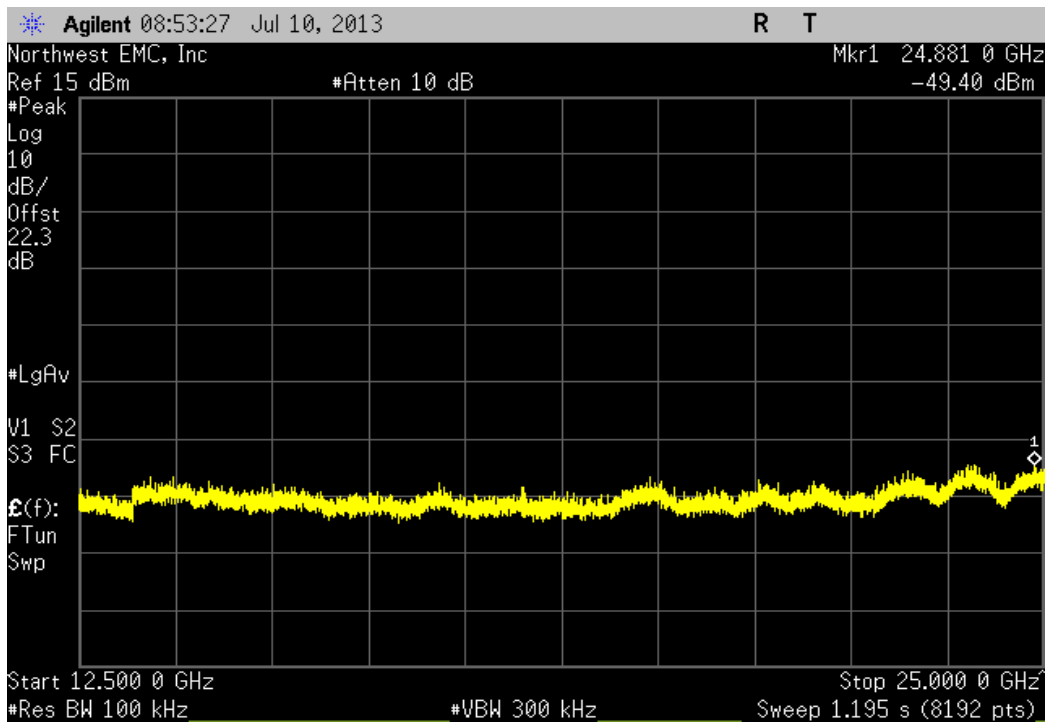
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz |       |       |        |  |
|--------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                      | Value | Limit | Result |  |
| Fundamental                                                                          | N/A   | N/A   | N/A    |  |



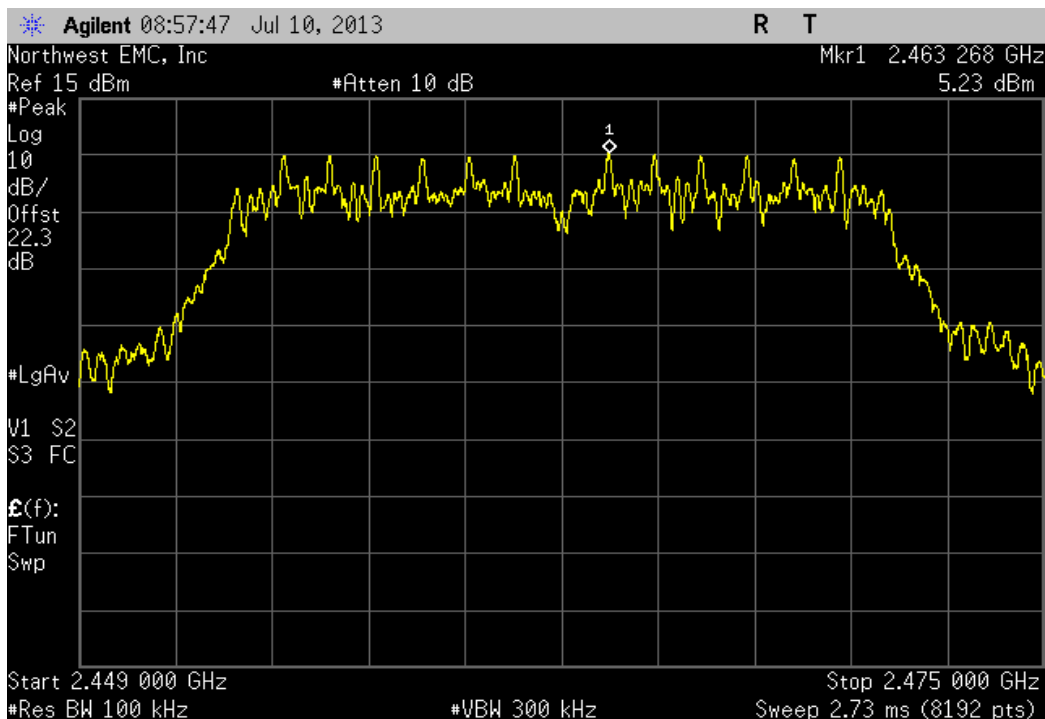
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                    |  | -59.24 dBc | ≤ -20 dBc | Pass   |



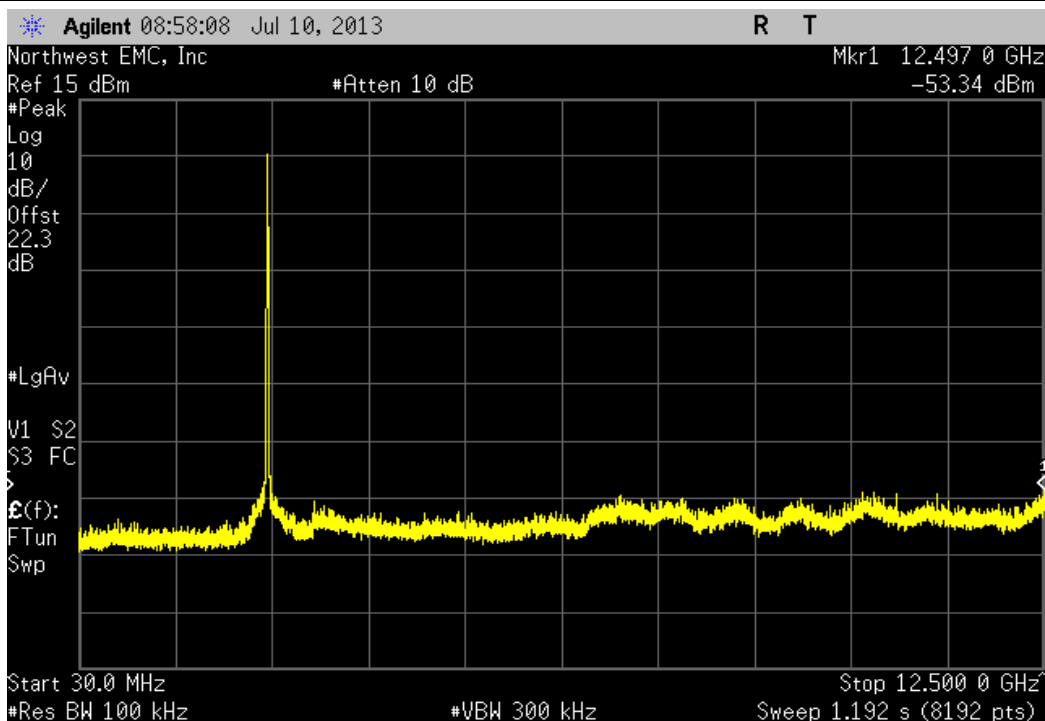
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz |  |           |           |        |
|--------------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                      |  | Value     | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                    |  | -55.1 dBc | ≤ -20 dBc | Pass   |



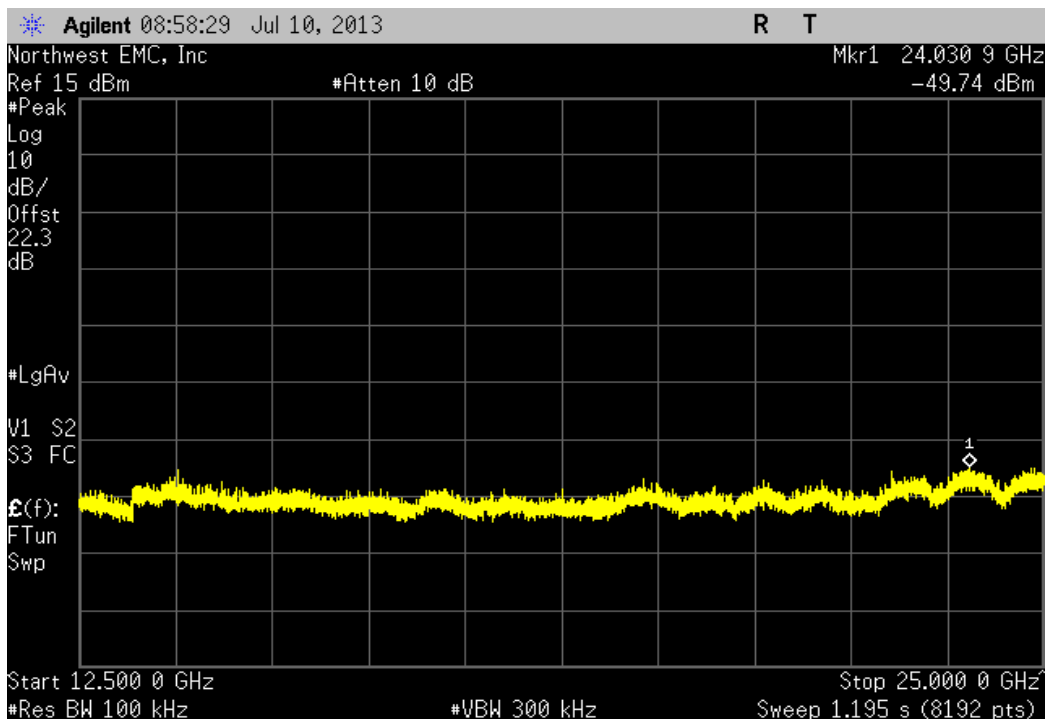
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz |             |  |       |       |        |  |
|----------------------------------------------------------------------------------------|-------------|--|-------|-------|--------|--|
| Frequency Range                                                                        |             |  | Value | Limit | Result |  |
|                                                                                        | Fundamental |  | N/A   | N/A   | N/A    |  |



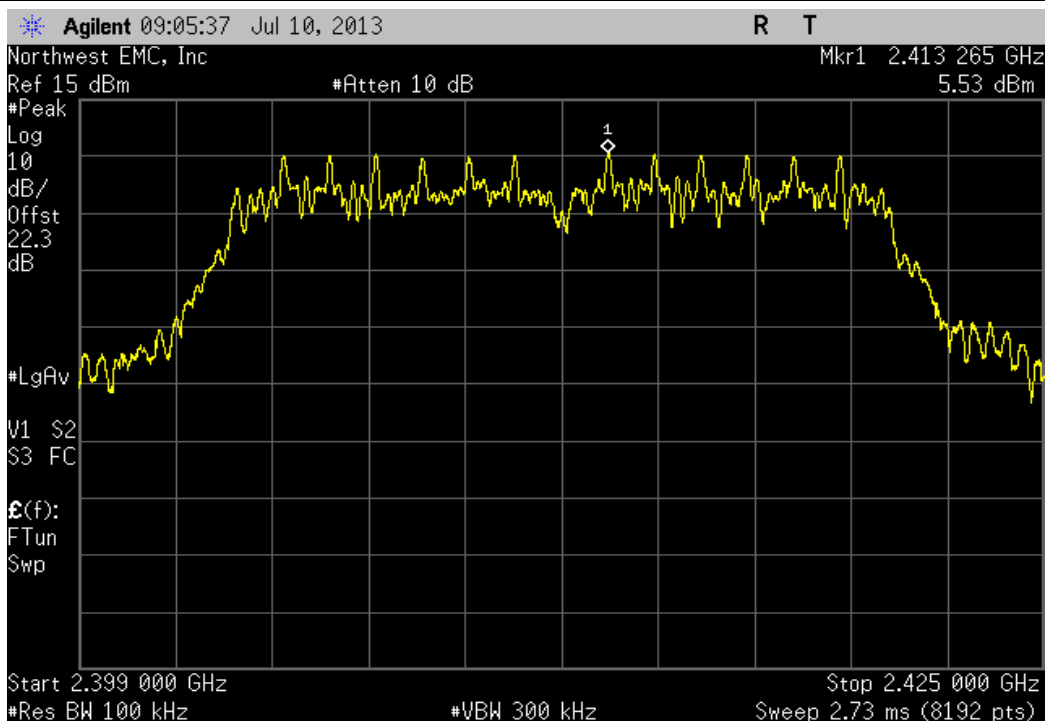
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz |                   |  |            |           |        |  |
|----------------------------------------------------------------------------------------|-------------------|--|------------|-----------|--------|--|
| Frequency Range                                                                        |                   |  | Value      | Limit     | Result |  |
|                                                                                        | 30 MHz - 12.5 GHz |  | -58.57 dBc | ≤ -20 dBc | Pass   |  |



| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -54.97 dBc | ≤ -20 dBc | Pass   |  |

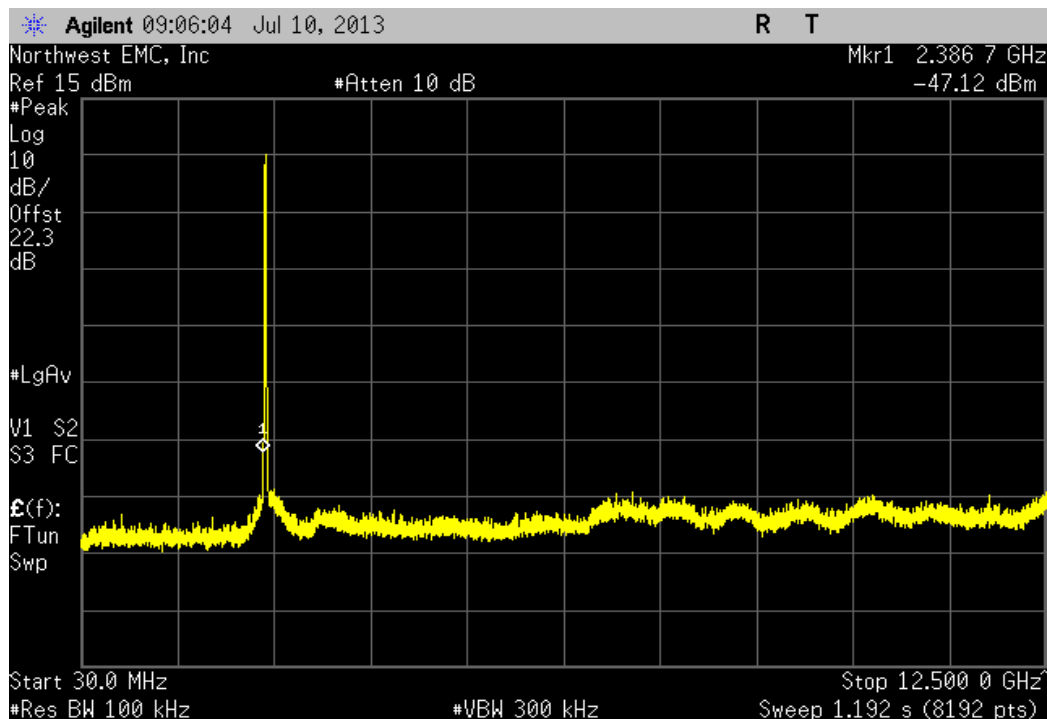


| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz |       |       |        |  |
|---------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                       | Value | Limit | Result |  |
| Fundamental                                                                           | N/A   | N/A   | N/A    |  |

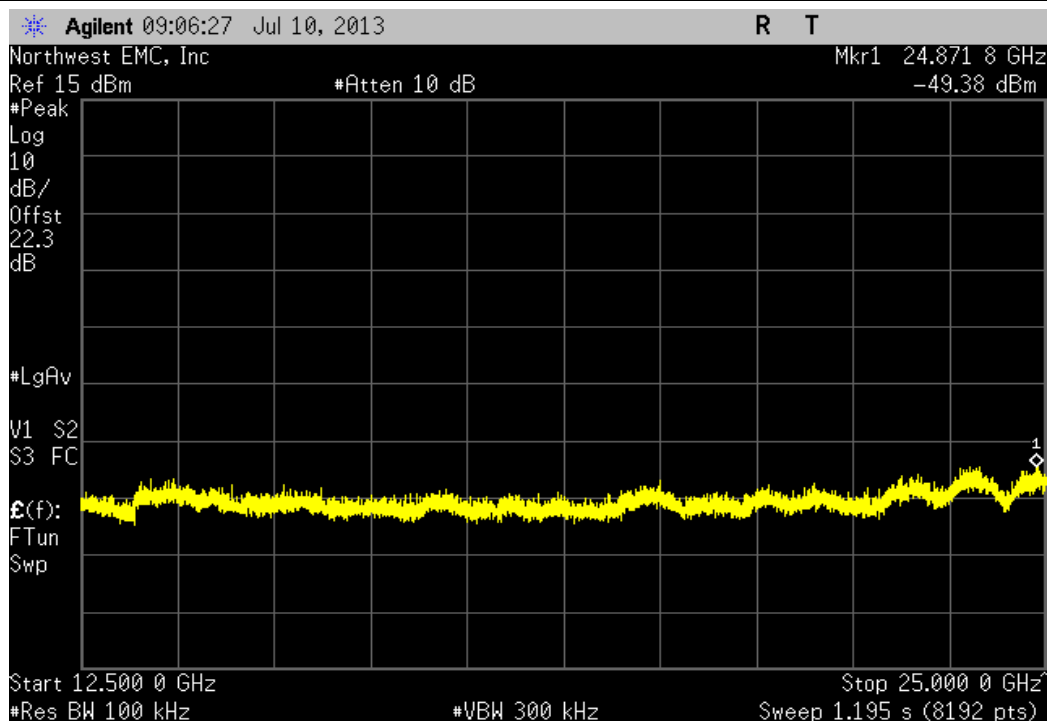




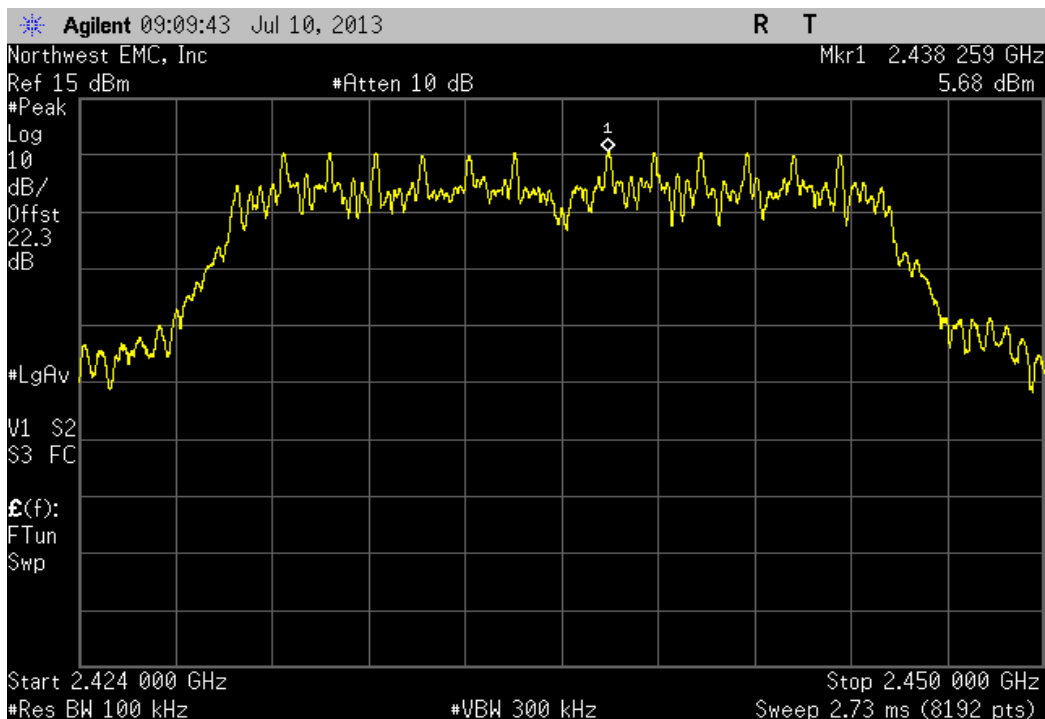
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                     | -52.65 dBc | ≤ -20 dBc | Pass   |  |



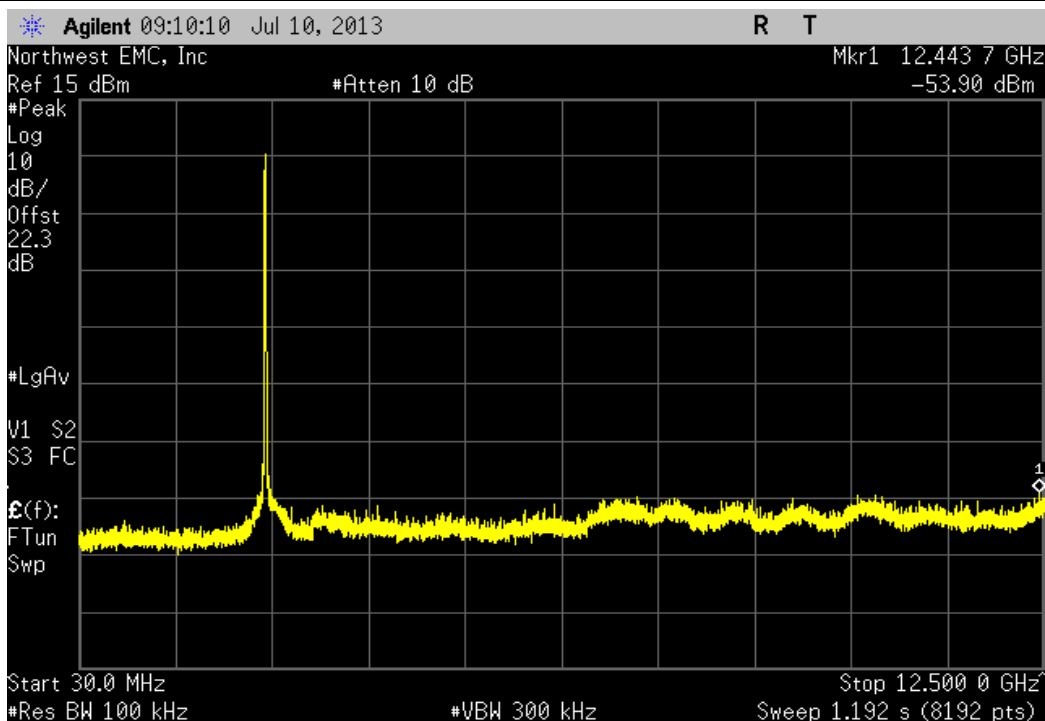
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -54.91 dBc | ≤ -20 dBc | Pass   |  |



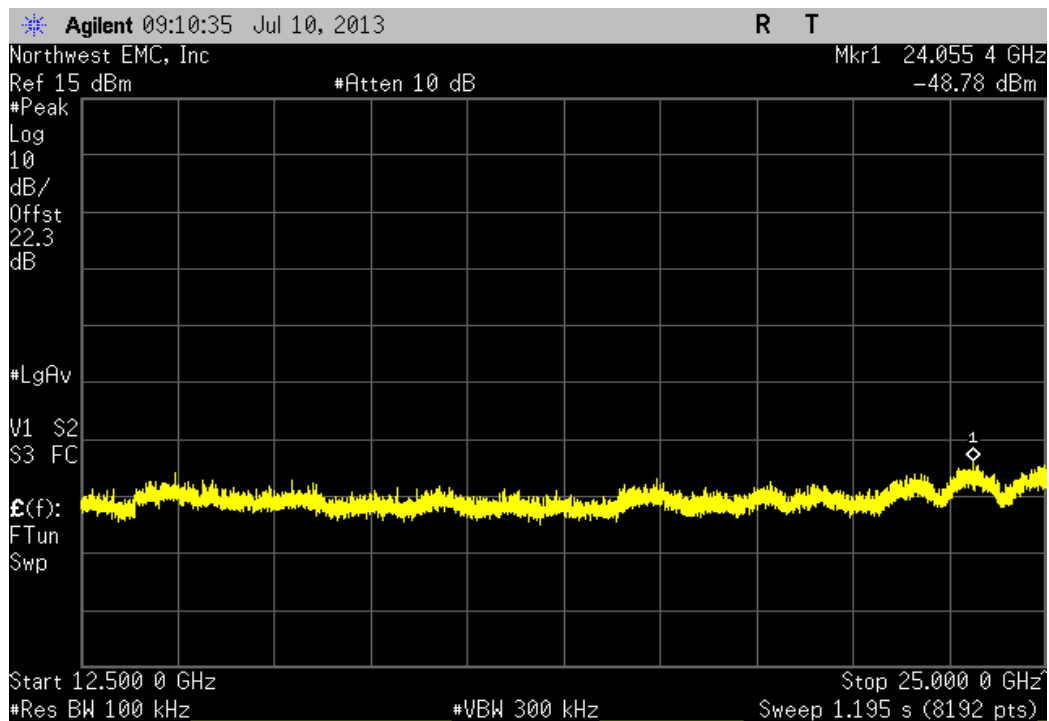
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz |  |       |       |        |  |  |
|---------------------------------------------------------------------------------------|--|-------|-------|--------|--|--|
| Frequency Range                                                                       |  | Value | Limit | Result |  |  |
| Fundamental                                                                           |  | N/A   | N/A   | N/A    |  |  |



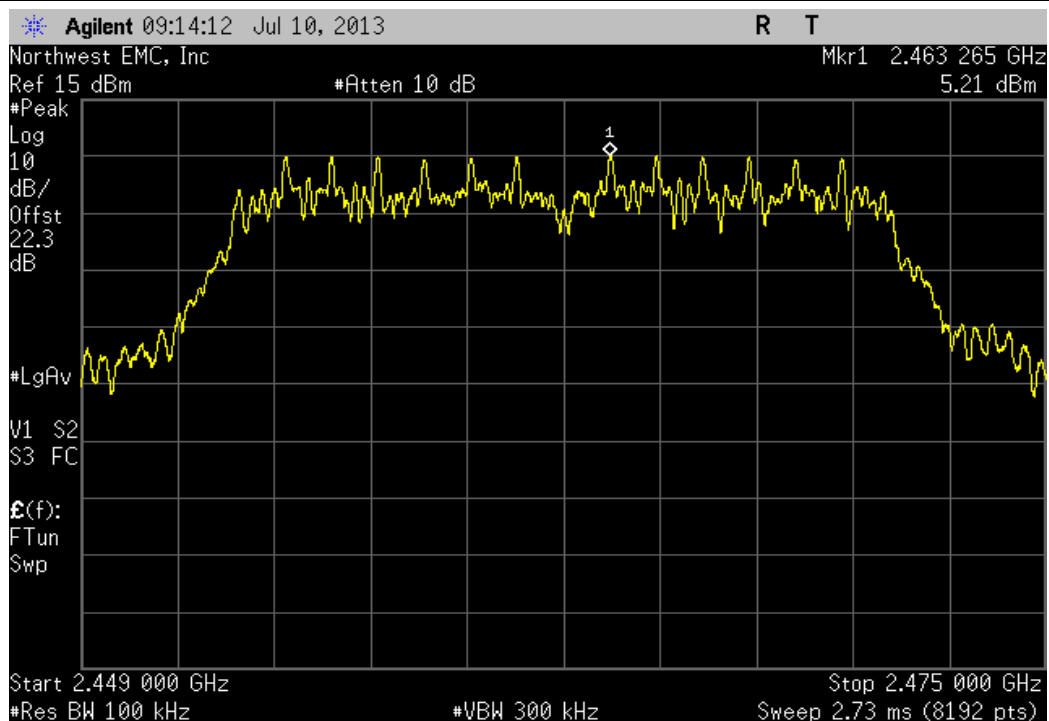
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz |  |            |           |        |  |  |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|--|--|
| Frequency Range                                                                       |  | Value      | Limit     | Result |  |  |
| 30 MHz - 12.5 GHz                                                                     |  | -59.58 dBc | ≤ -20 dBc | Pass   |  |  |



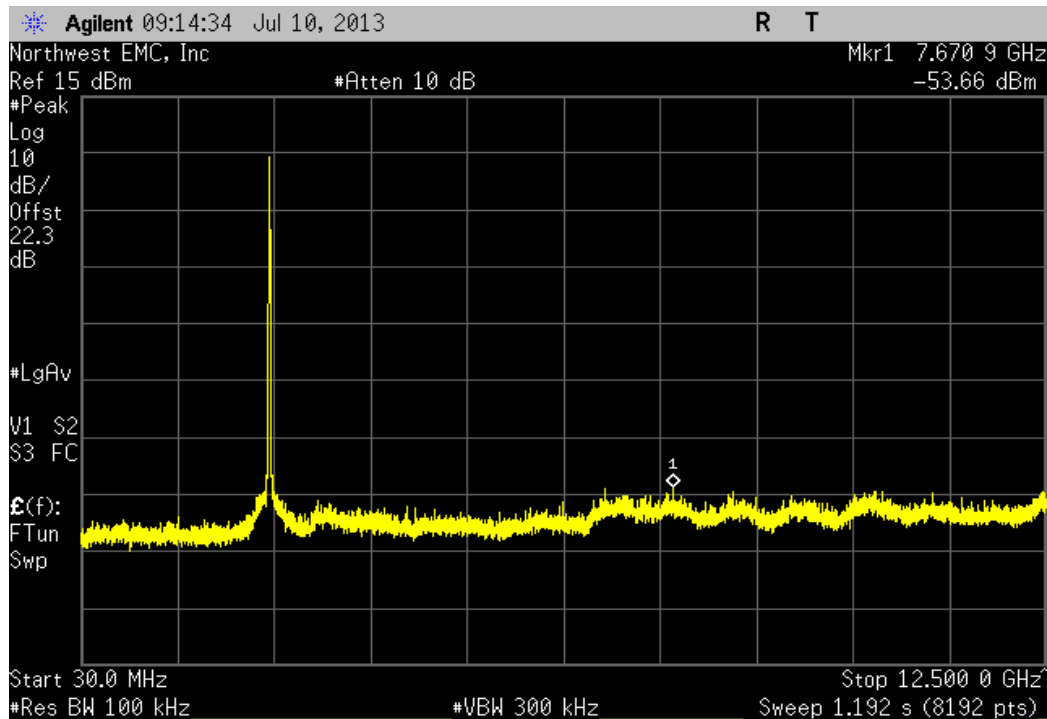
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -54.46 dBc | ≤ -20 dBc | Pass   |  |



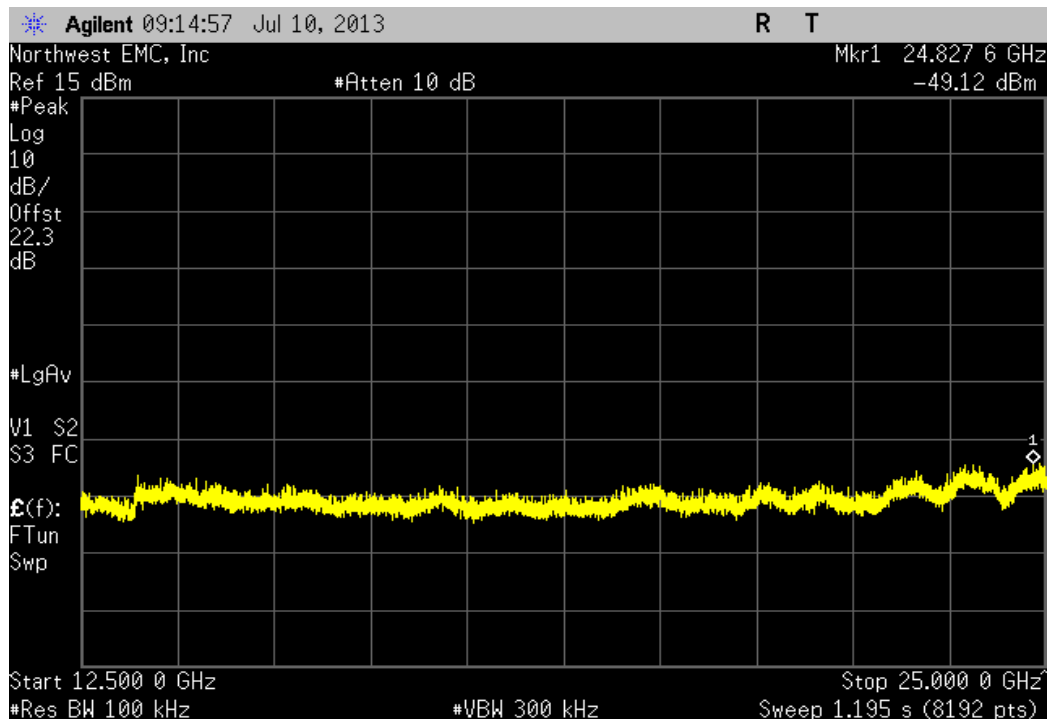
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz |       |       |        |  |
|-----------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                         | Value | Limit | Result |  |
| Fundamental                                                                             | N/A   | N/A   | N/A    |  |



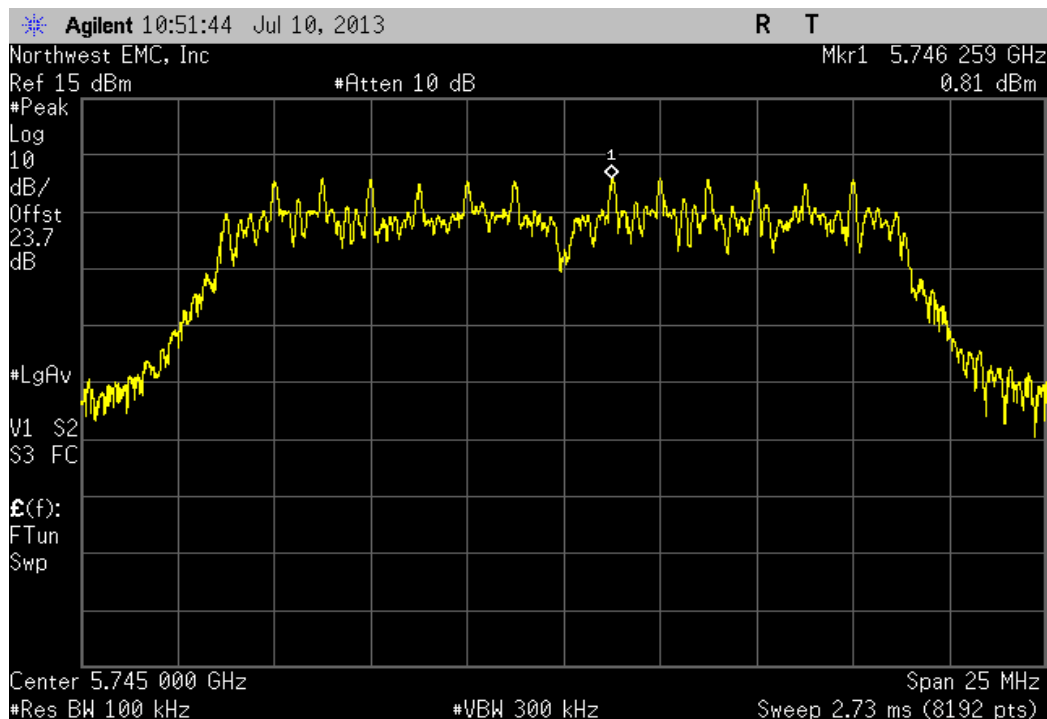
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -58.87 dBc | ≤ -20 dBc | Pass   |  |



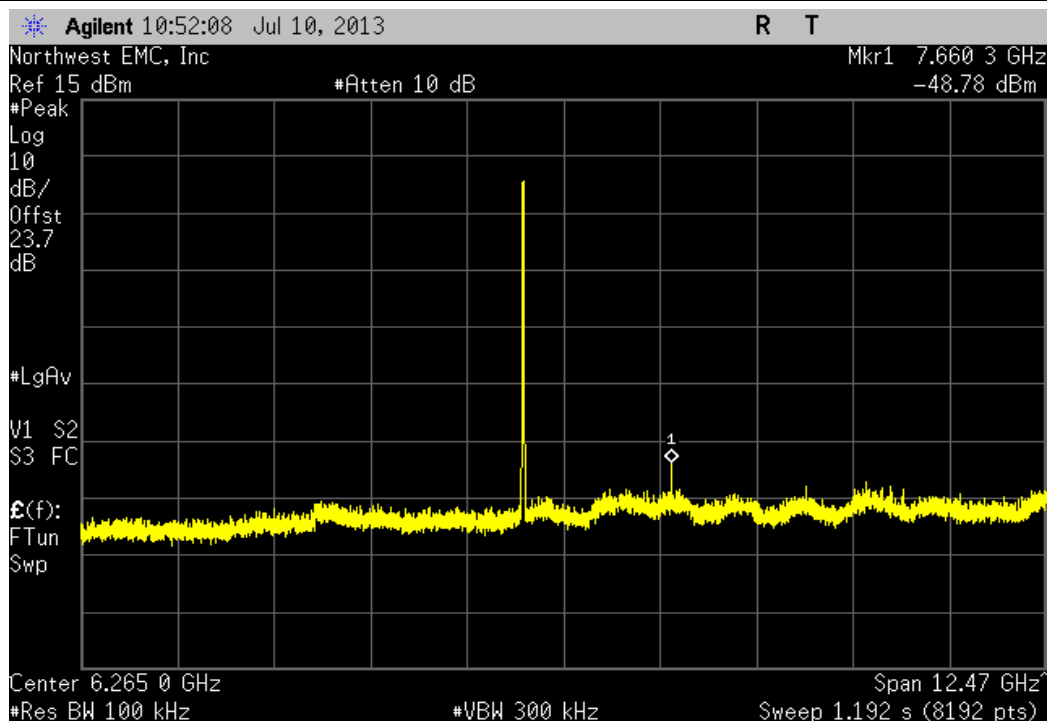
| Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -54.33 dBc | ≤ -20 dBc | Pass   |  |



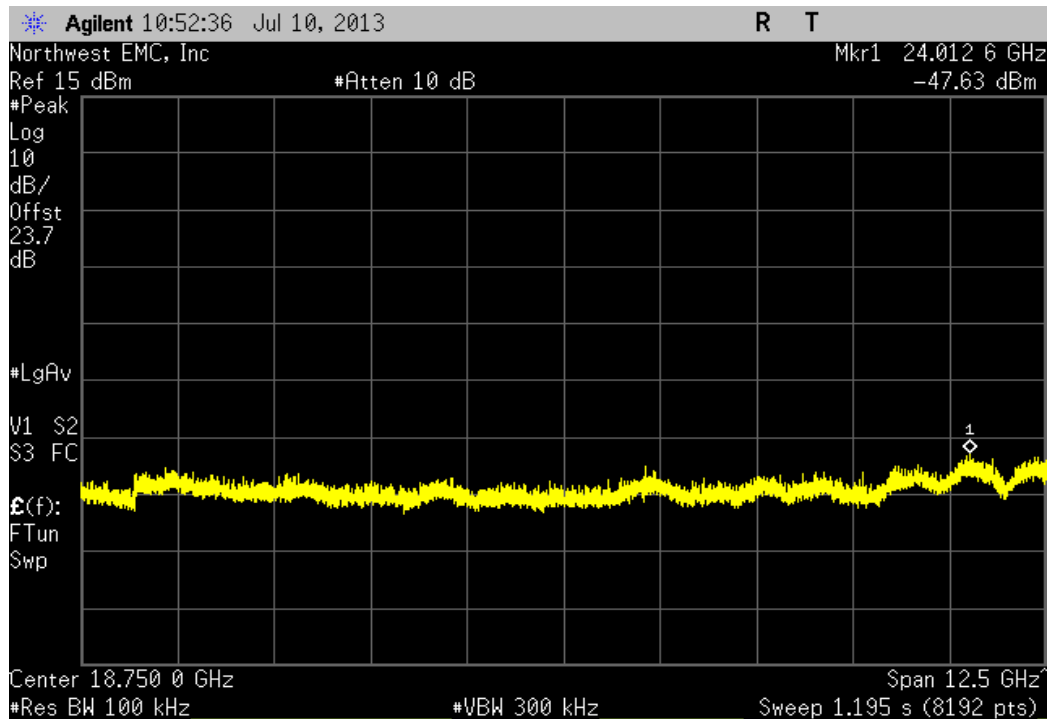
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |             |  |  |       |       |        |
|--------------------------------------------------------------------------------------|-------------|--|--|-------|-------|--------|
| Frequency Range                                                                      |             |  |  | Value | Limit | Result |
|                                                                                      | Fundamental |  |  | N/A   | N/A   | N/A    |



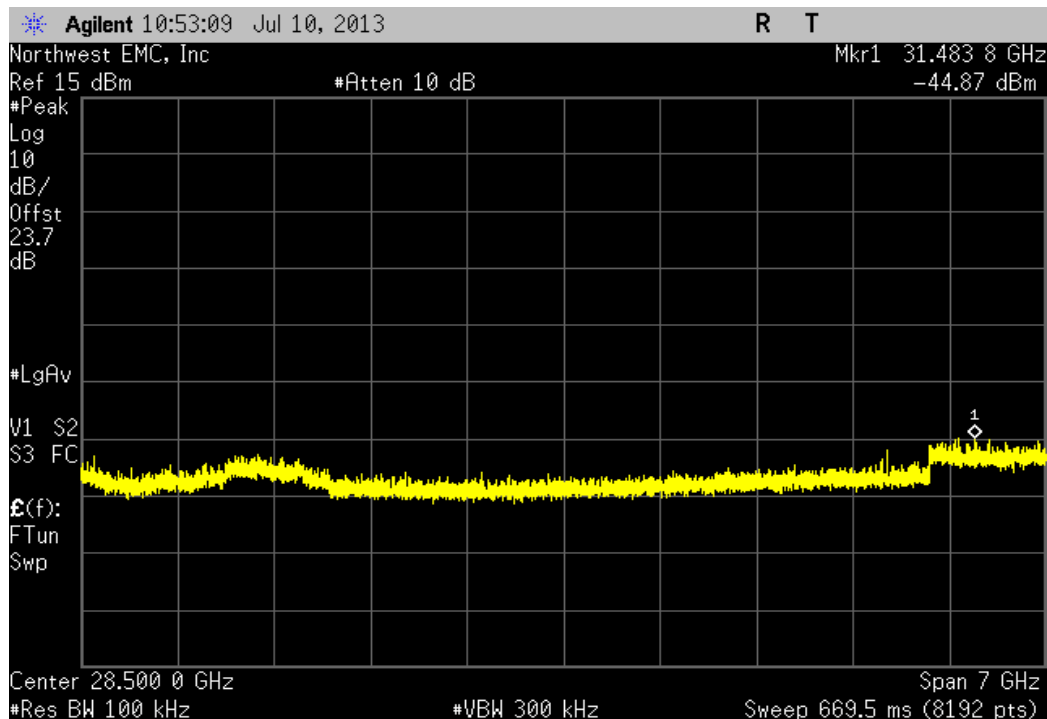
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |                   |  |  |            |           |        |
|--------------------------------------------------------------------------------------|-------------------|--|--|------------|-----------|--------|
| Frequency Range                                                                      |                   |  |  | Value      | Limit     | Result |
|                                                                                      | 30 MHz - 12.5 GHz |  |  | -49.59 dBc | ≤ -20 dBc | Pass   |



| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                    | -48.44 dBc | ≤ -20 dBc | Pass   |  |

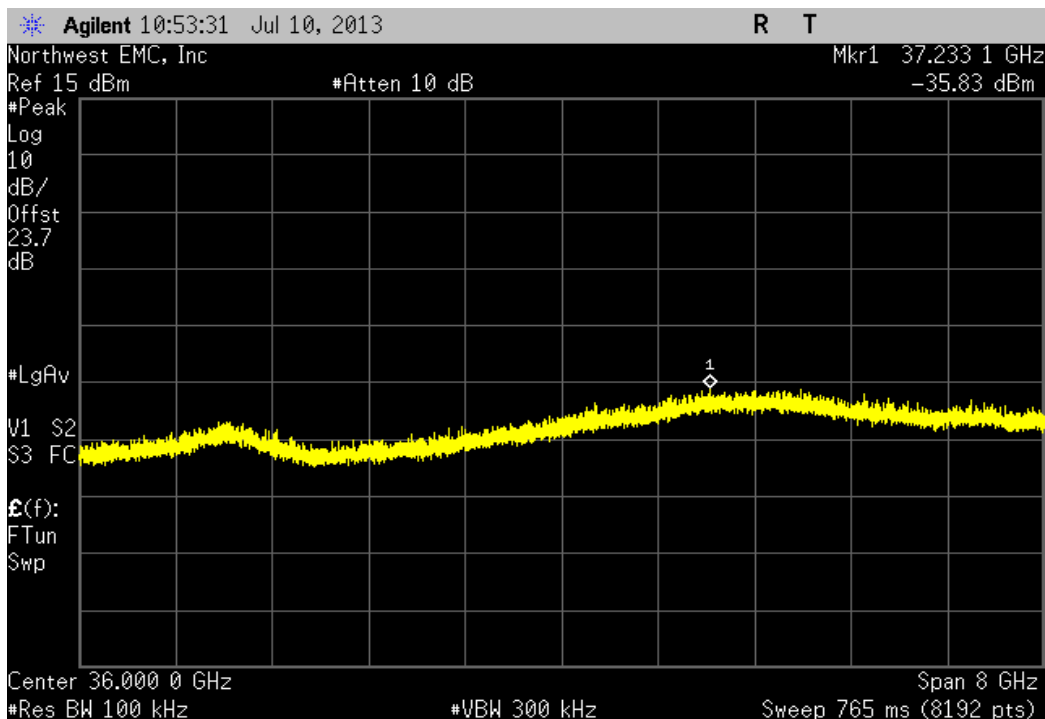


| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                      | -45.68 dBc | ≤ -20 dBc | Pass   |  |



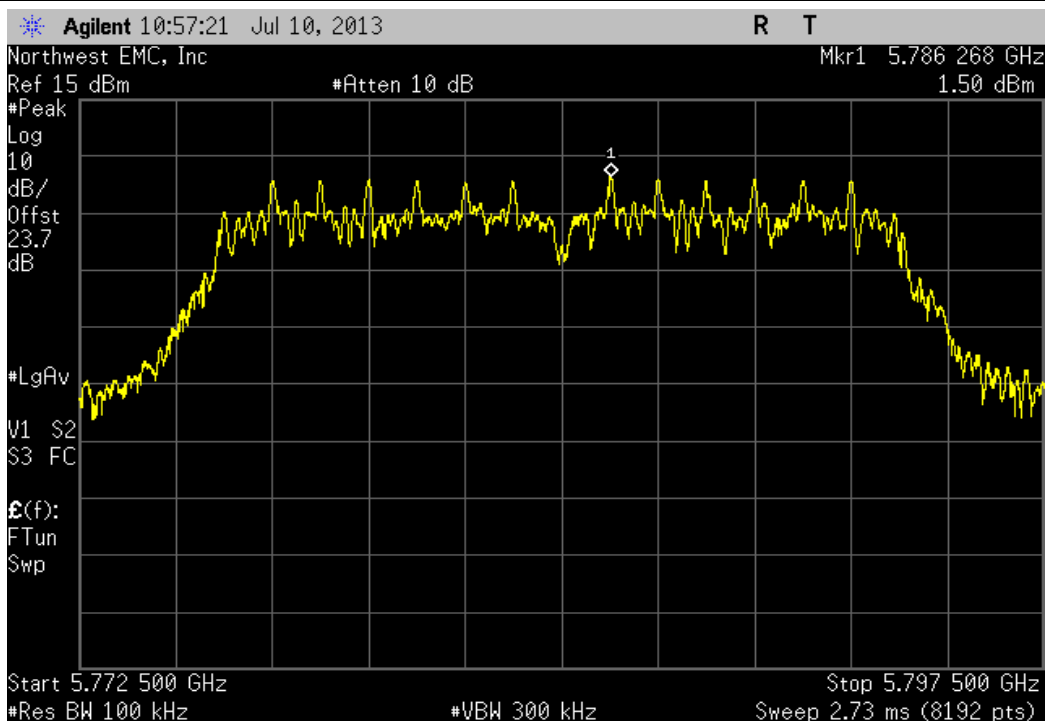
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz

| Frequency Range | Value      | Limit     | Result |
|-----------------|------------|-----------|--------|
| 32 GHz - 40 GHz | -36.64 dBc | ≤ -20 dBc | Pass   |

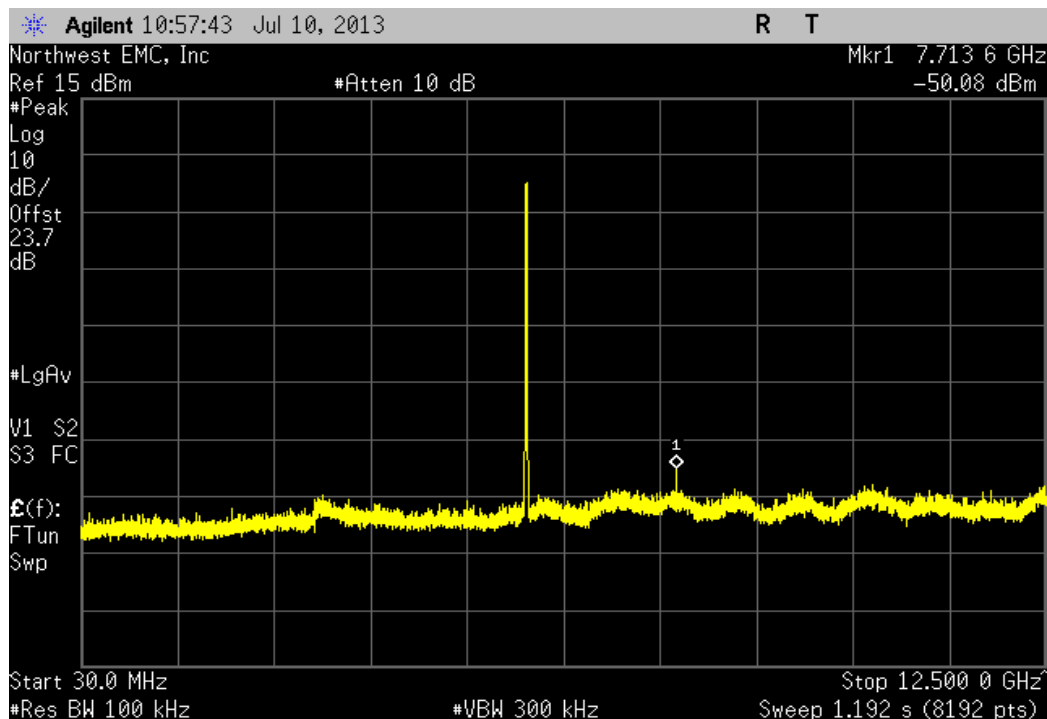


Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz

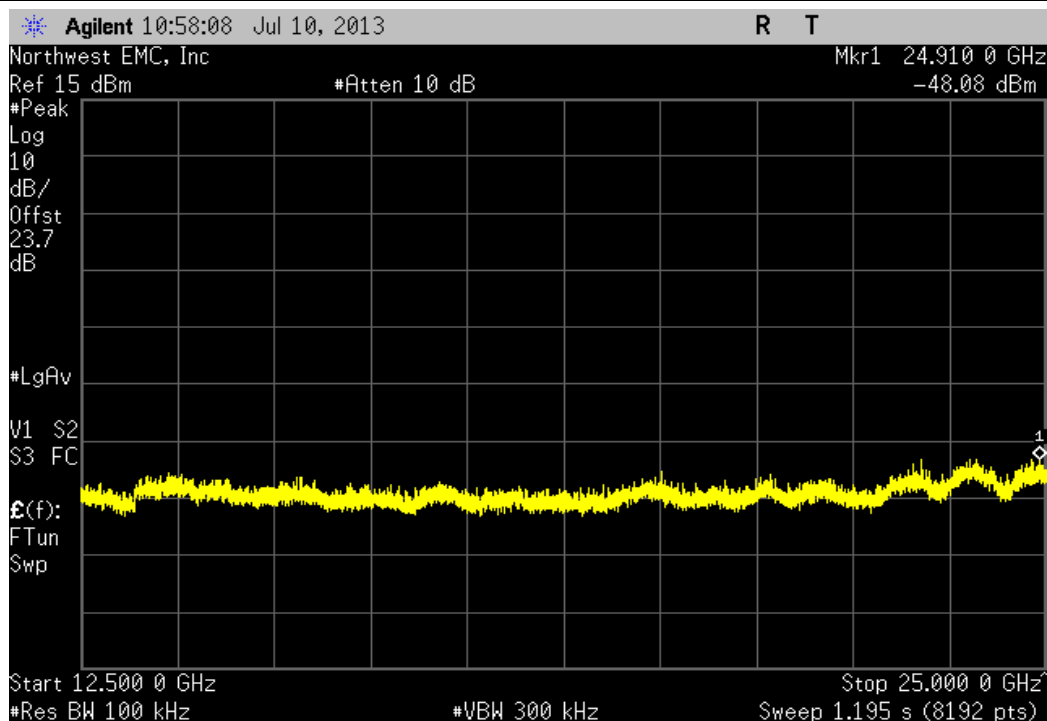
| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |



| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                    | -51.58 dBc | ≤ -20 dBc | Pass   |  |

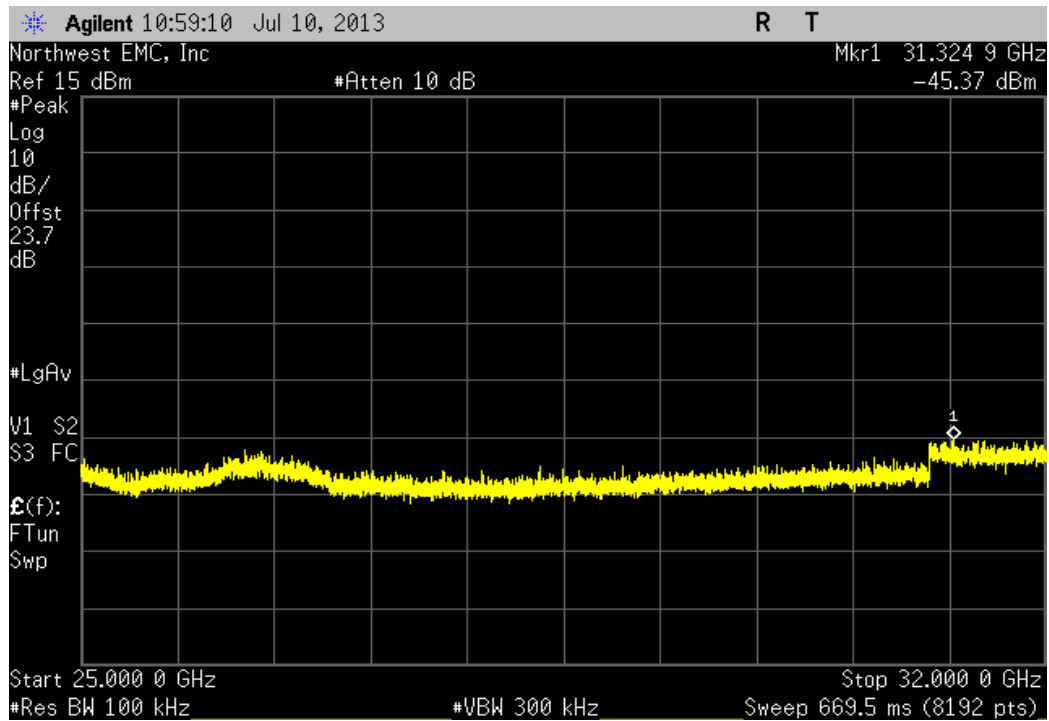


| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                    | -49.58 dBc | ≤ -20 dBc | Pass   |  |

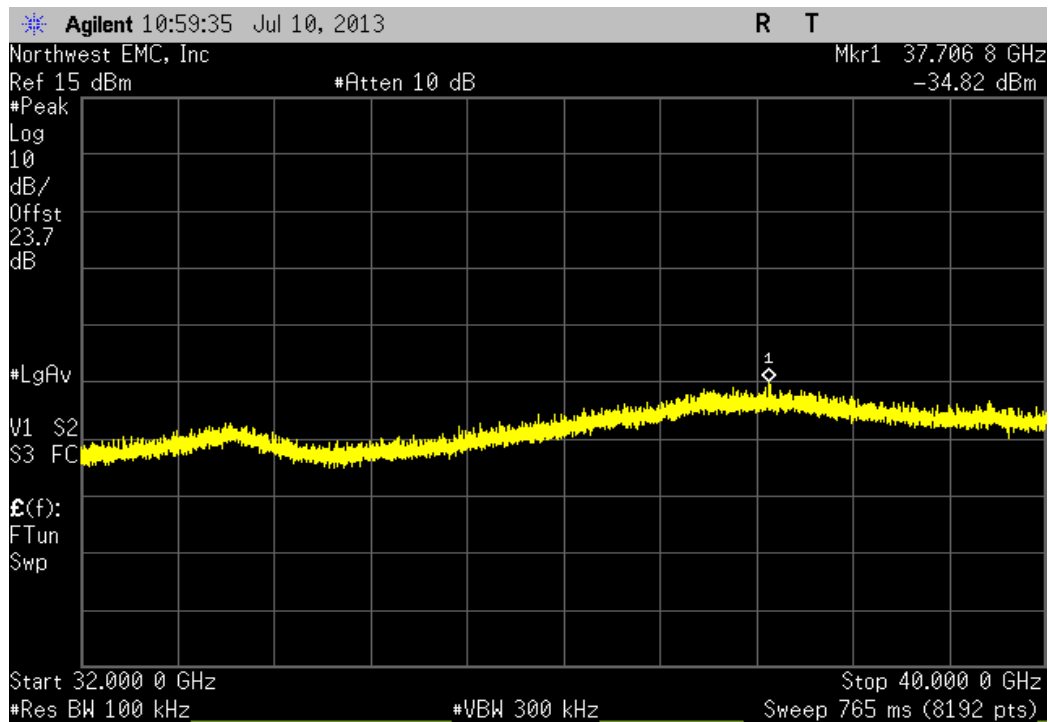




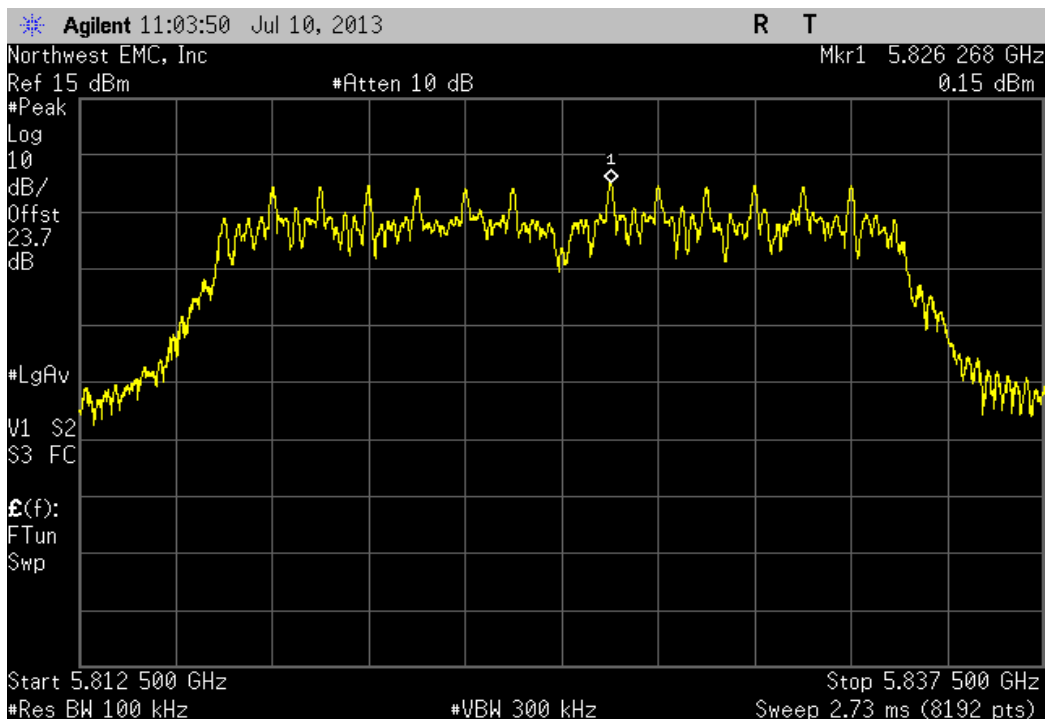
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                      |  | -46.86 dBc | ≤ -20 dBc | Pass   |



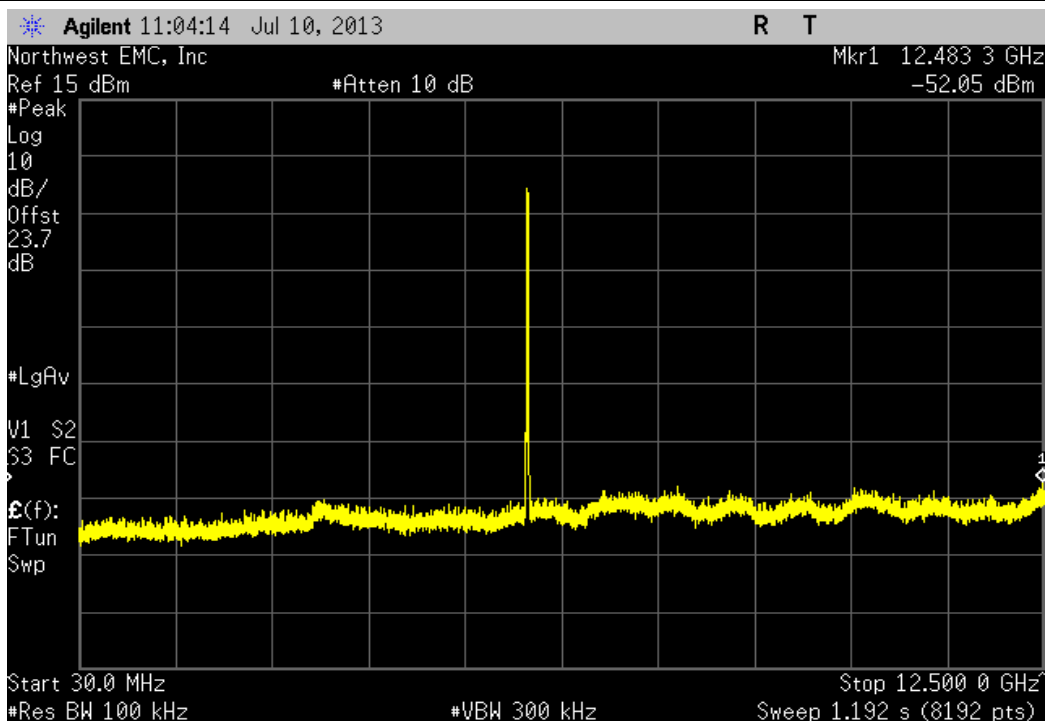
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                      |  | -36.32 dBc | ≤ -20 dBc | Pass   |



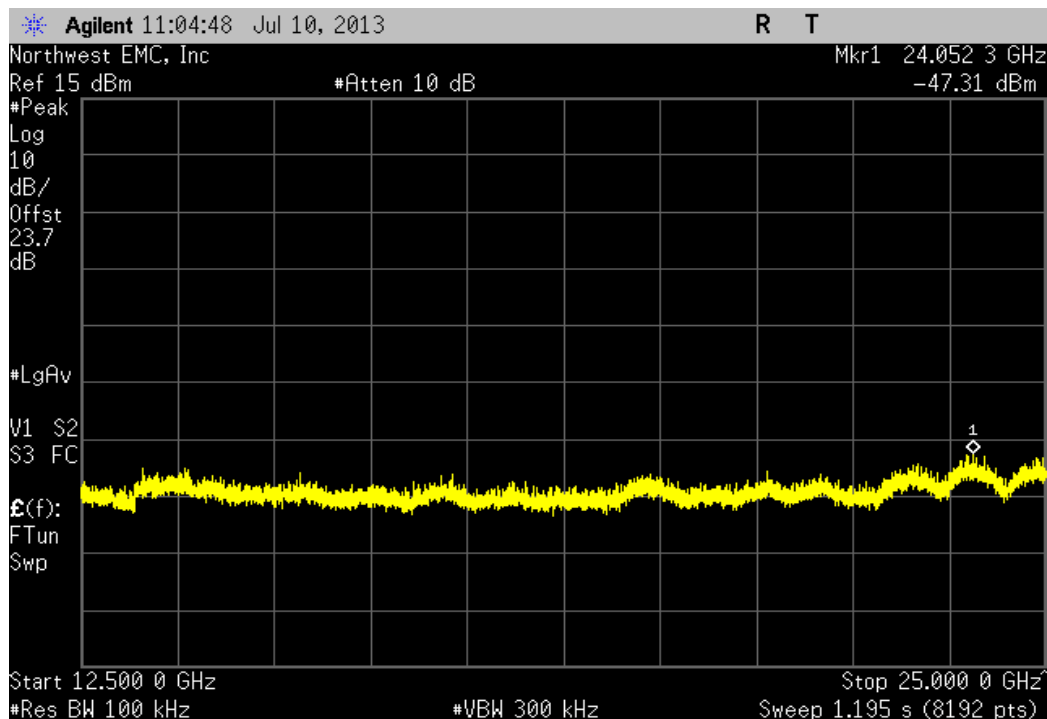
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |  |       |       |        |
|---------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                       |  | Value | Limit | Result |
| Fundamental                                                                           |  | N/A   | N/A   | N/A    |



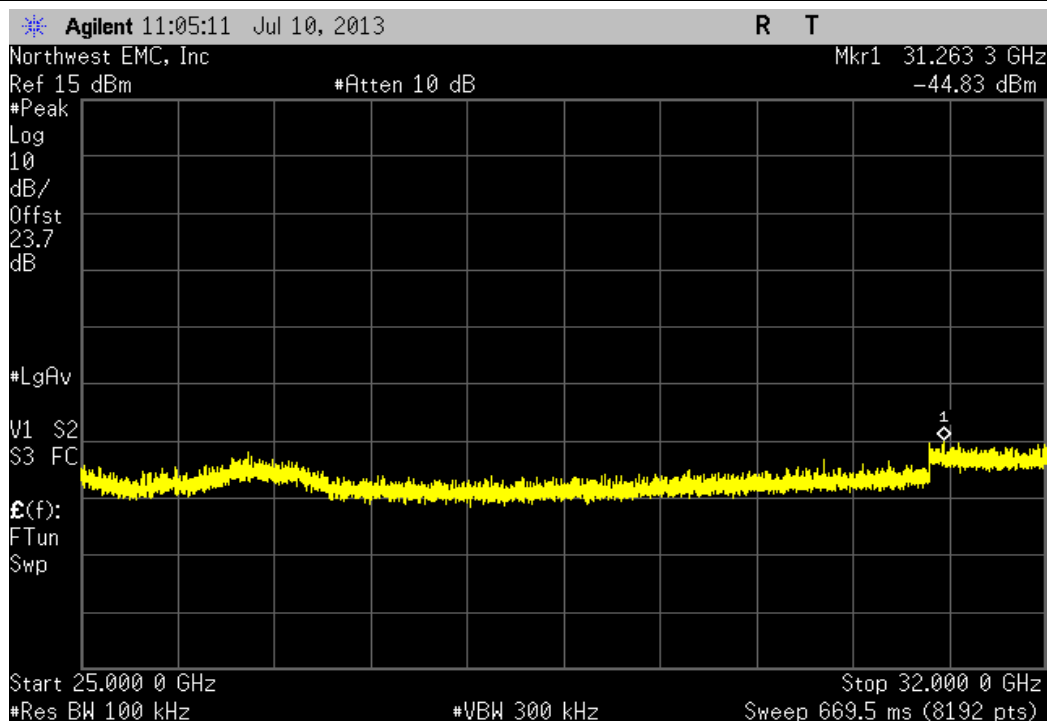
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |  |           |           |        |
|---------------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                       |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                     |  | -52.2 dBc | ≤ -20 dBc | Pass   |



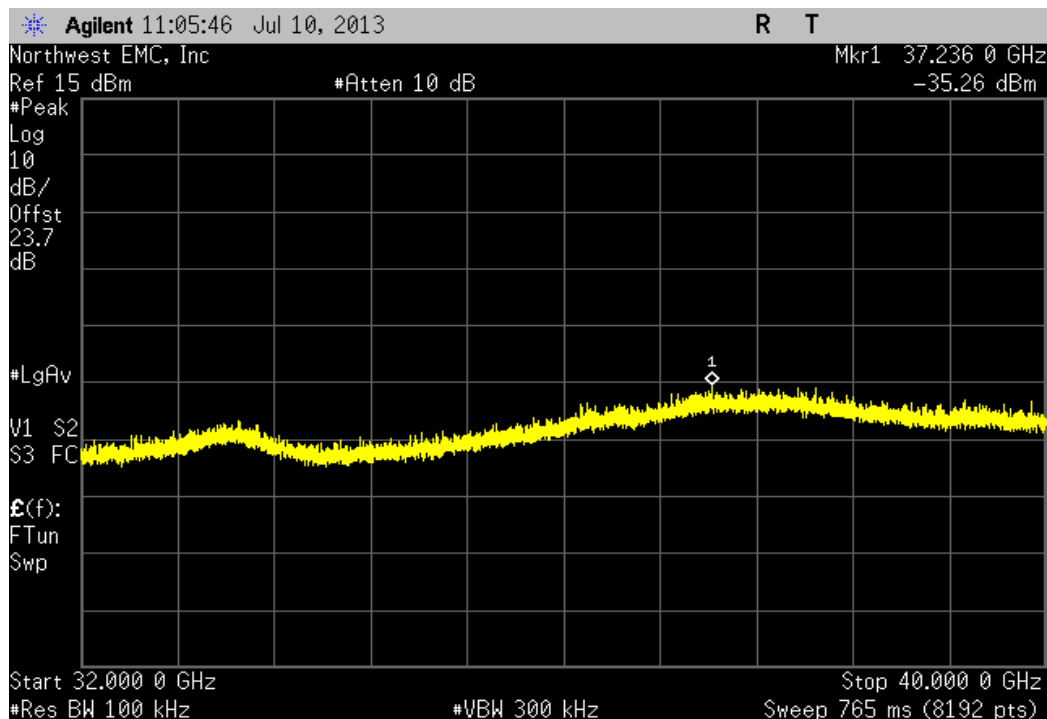
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -47.46 dBc | ≤ -20 dBc | Pass   |  |



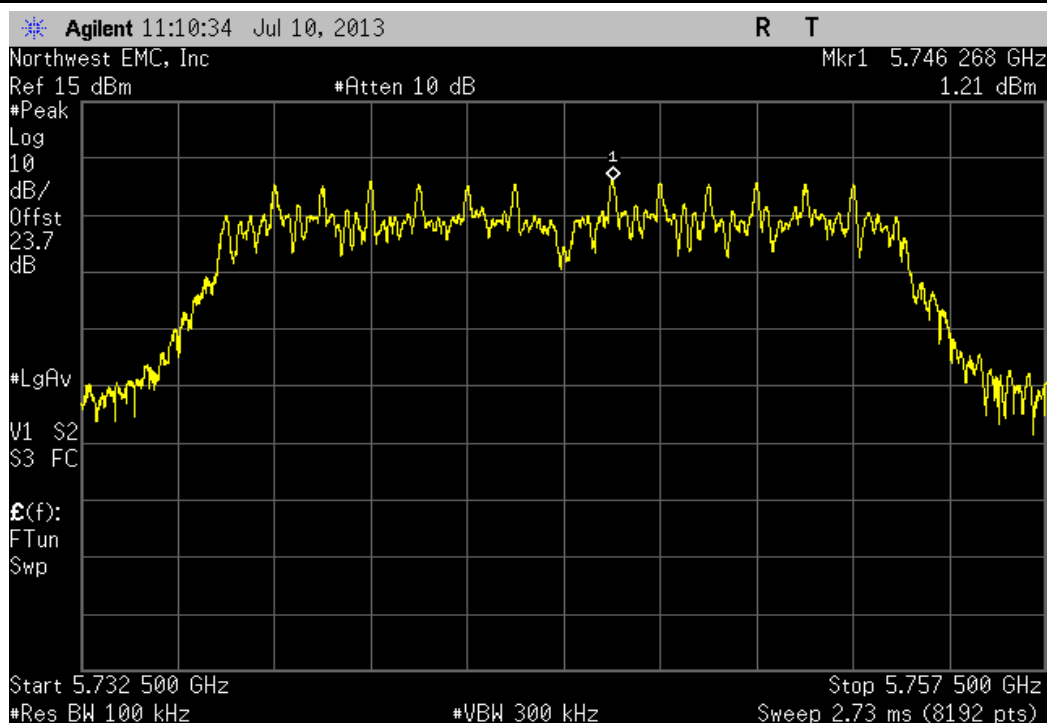
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                       | -44.98 dBc | ≤ -20 dBc | Pass   |  |



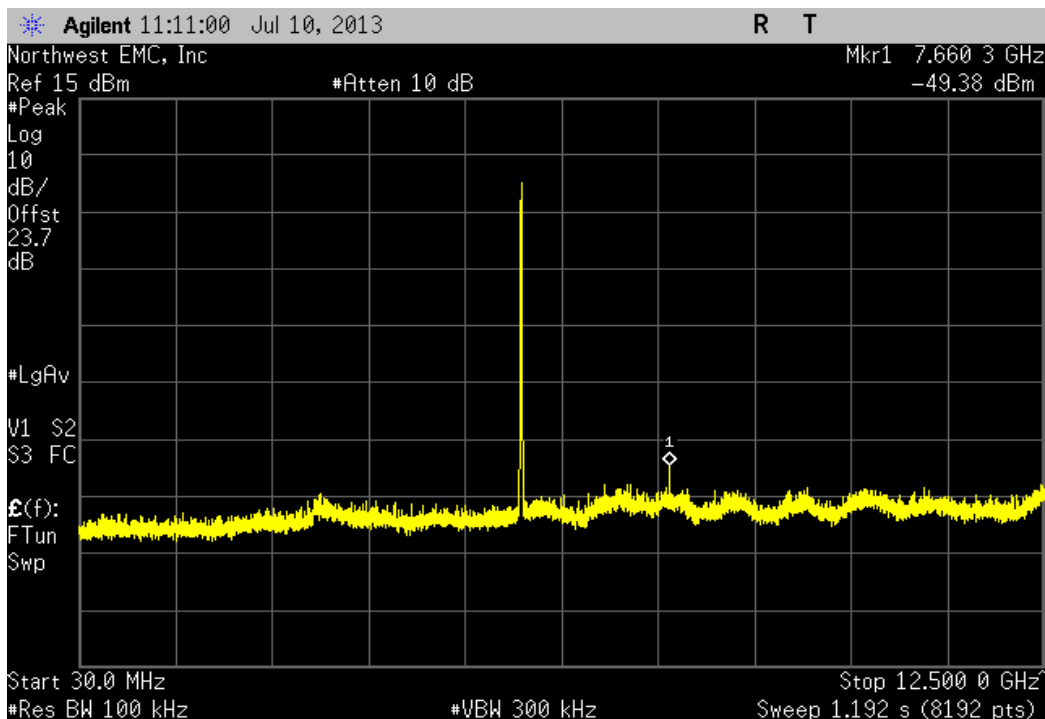
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |            |           |        |
|---------------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                       | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                       | -35.41 dBc | ≤ -20 dBc | Pass   |



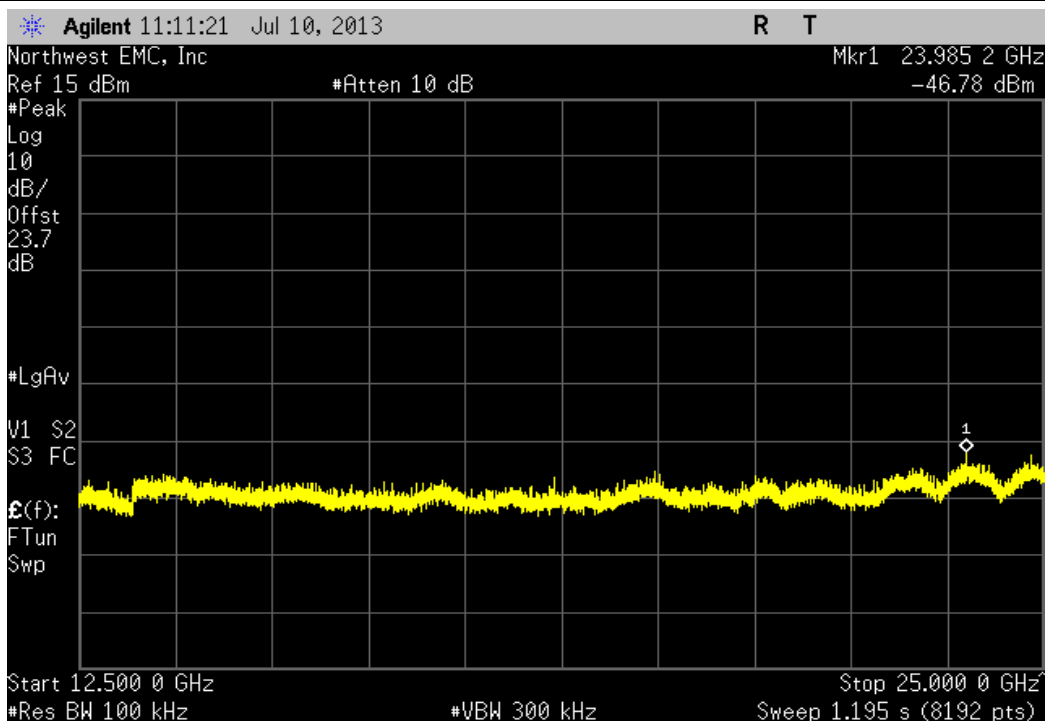
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |       |       |        |
|---------------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                       | Value | Limit | Result |
| Fundamental                                                                           | N/A   | N/A   | N/A    |



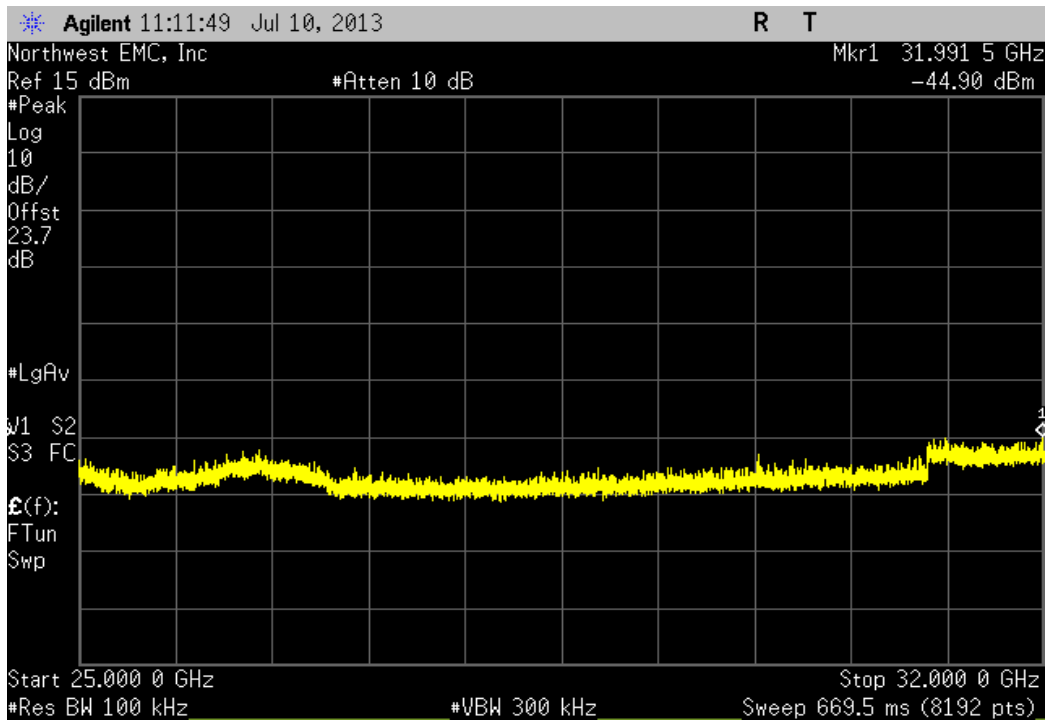
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                     | -50.59 dBc | ≤ -20 dBc | Pass   |  |



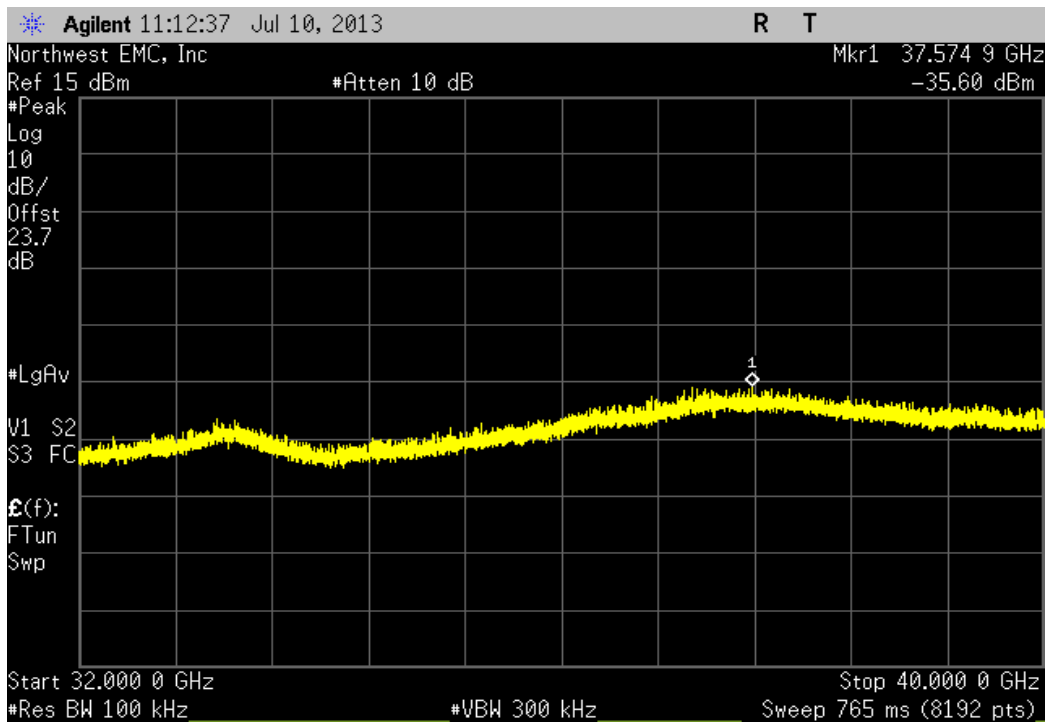
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -47.99 dBc | ≤ -20 dBc | Pass   |  |



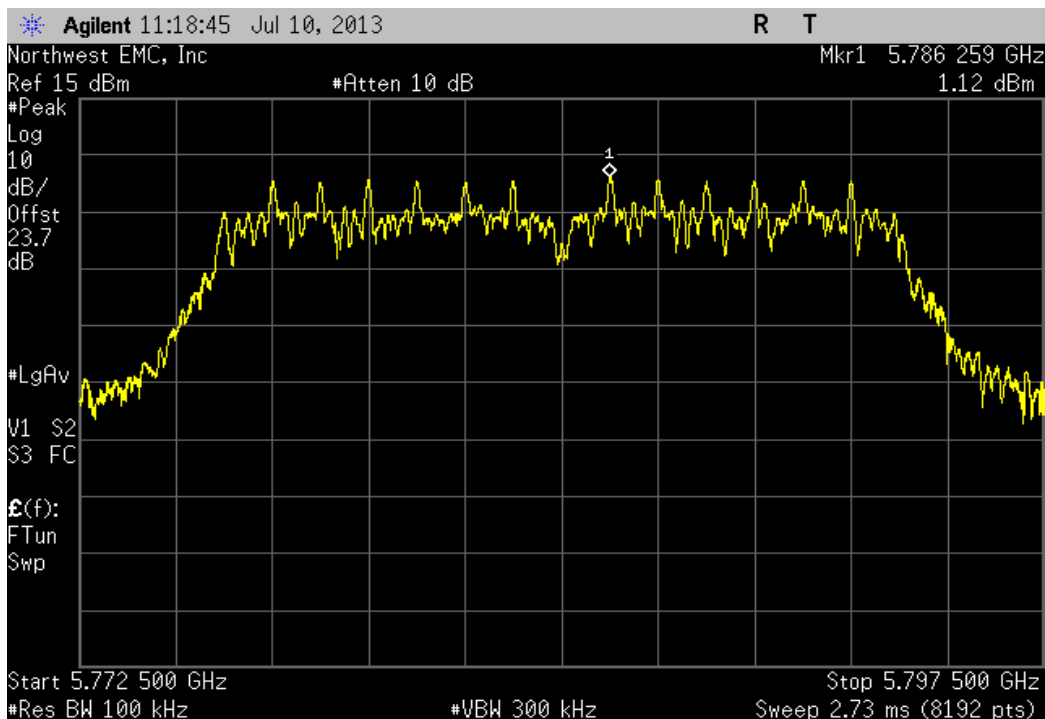
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |  |            |           |        |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                       |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                       |  | -46.12 dBc | ≤ -20 dBc | Pass   |



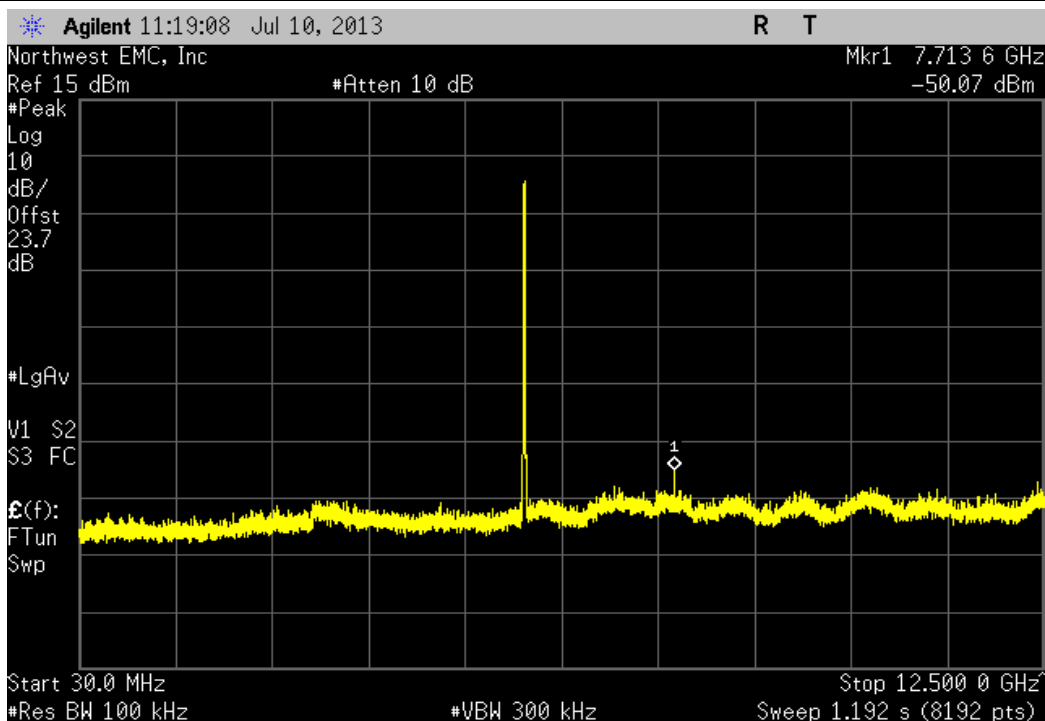
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |  |            |           |        |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                       |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                       |  | -36.81 dBc | ≤ -20 dBc | Pass   |



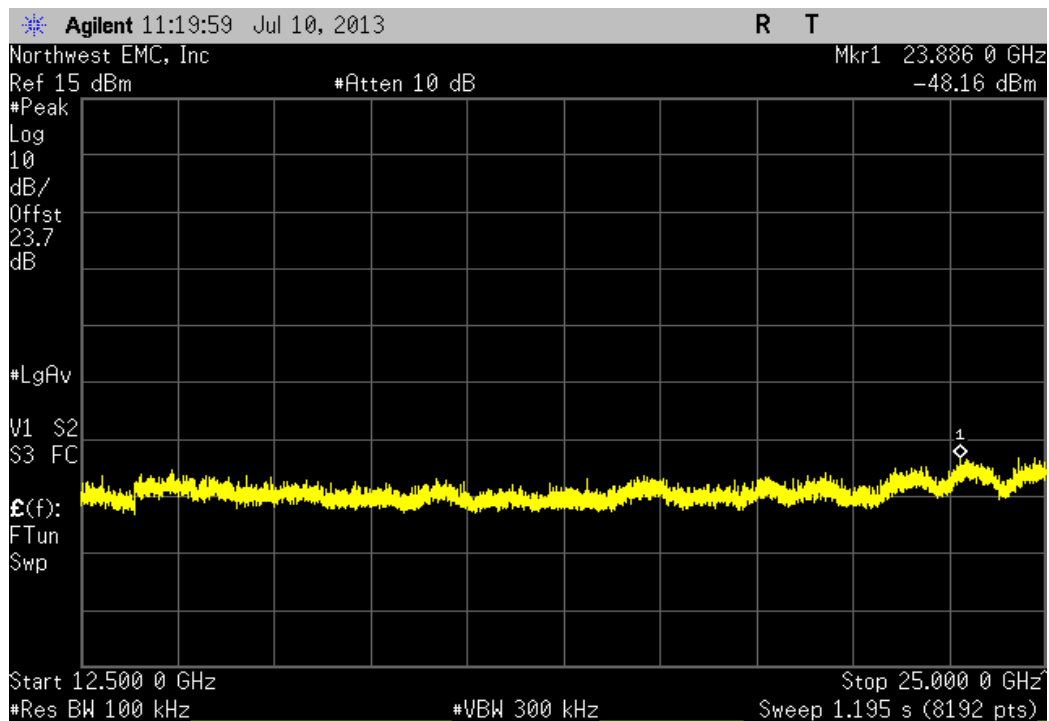
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                       |  |  |  | Value | Limit | Result |
| Fundamental                                                                           |  |  |  | N/A   | N/A   | N/A    |



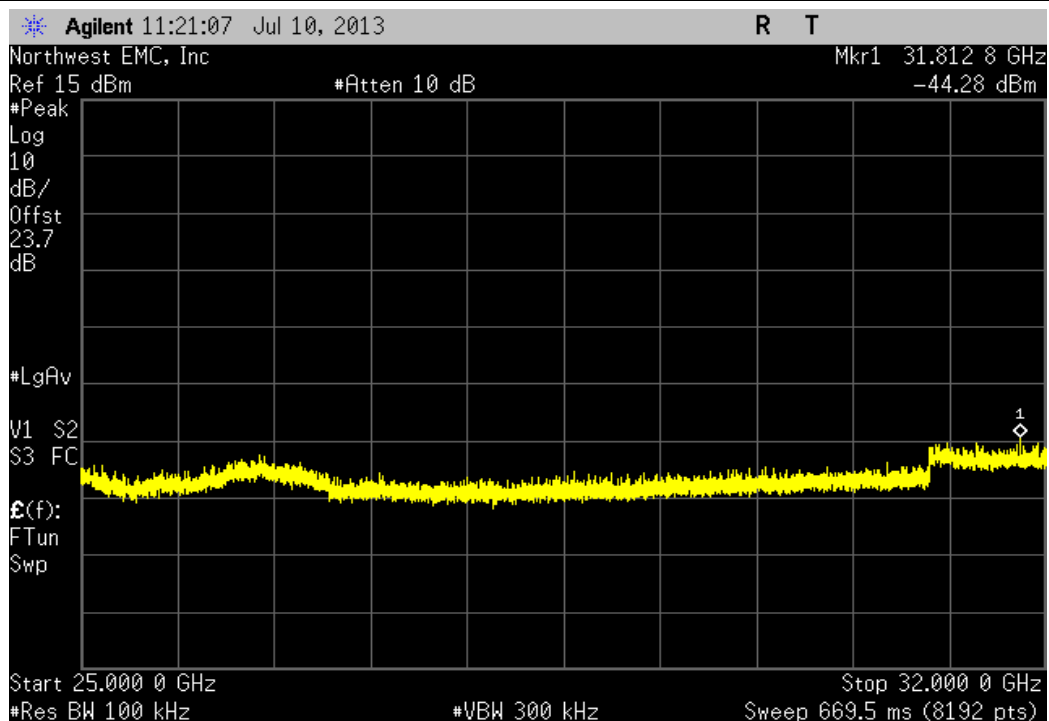
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |  |  |            |           |        |
|---------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                       |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                     |  |  |  | -51.19 dBc | ≤ -20 dBc | Pass   |



| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |            |           |        |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                       |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                     |  | -49.28 dBc | ≤ -20 dBc | Pass   |

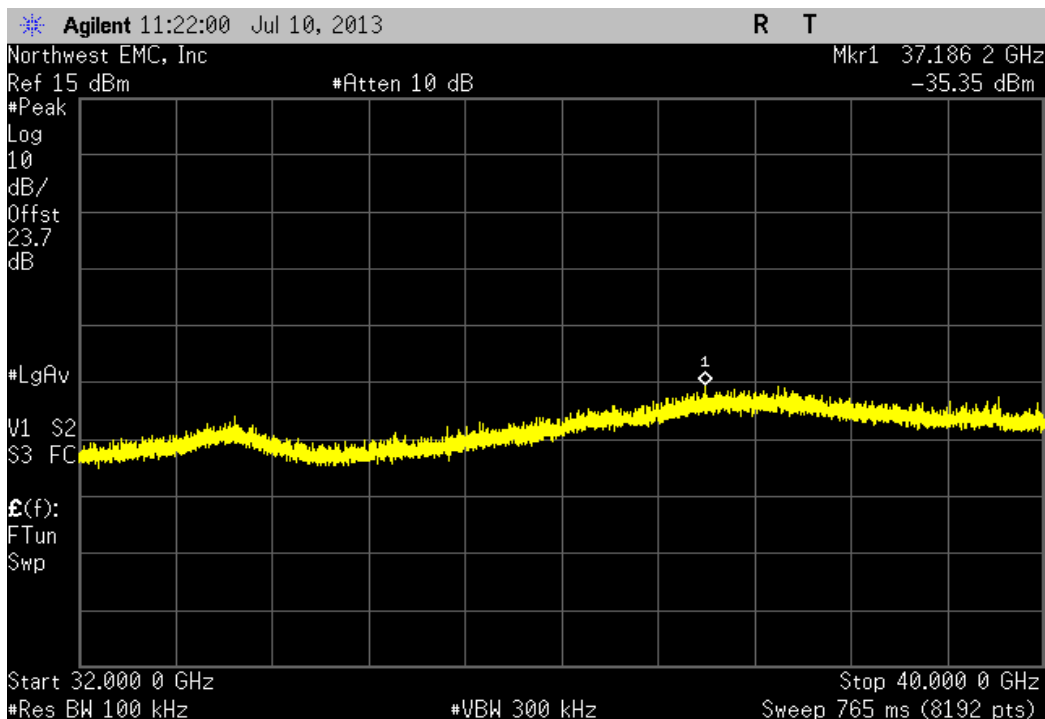


| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |           |           |        |
|---------------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                       |  | Value     | Limit     | Result |
| 25 GHz - 32 GHz                                                                       |  | -45.4 dBc | ≤ -20 dBc | Pass   |

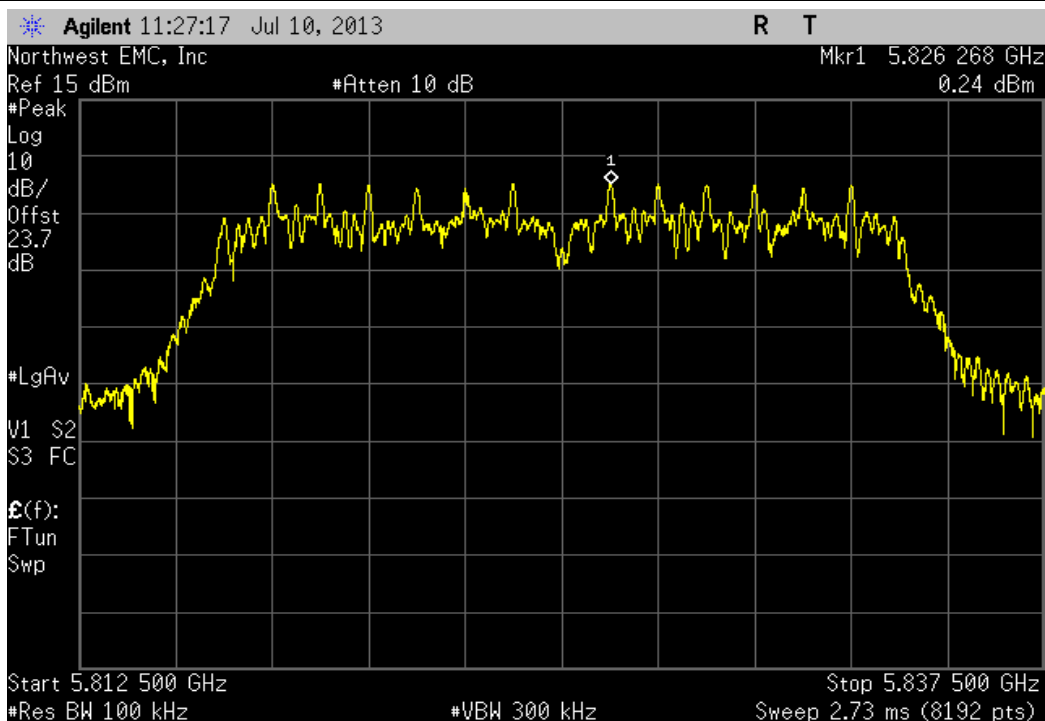




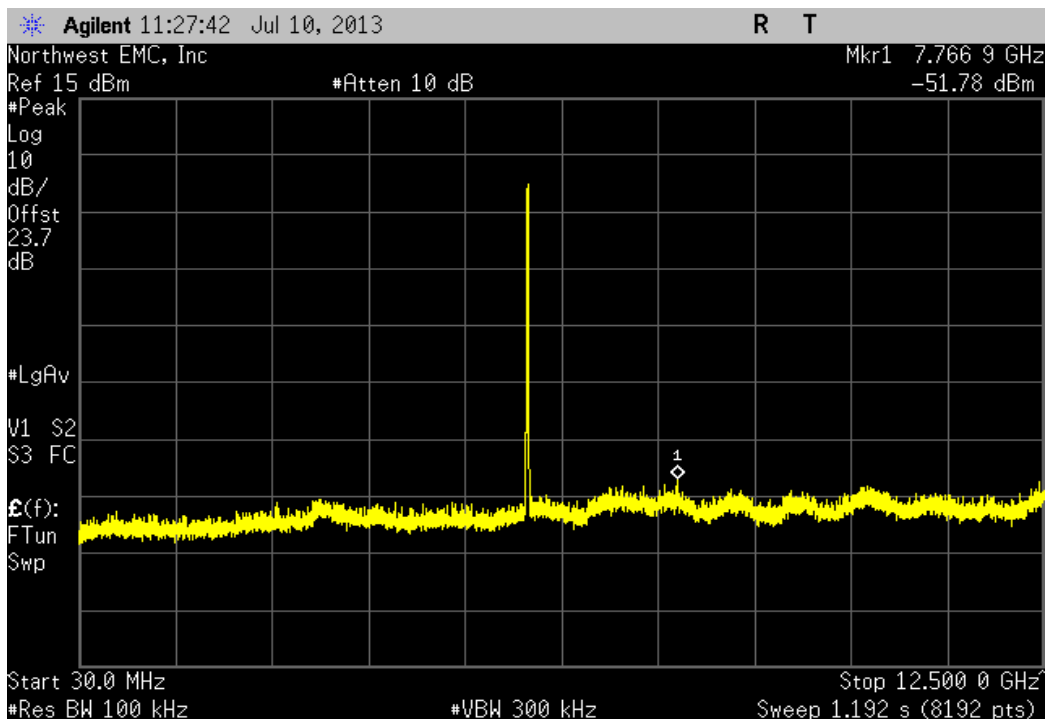
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |            |           |        |
|---------------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                       | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                       | -36.47 dBc | ≤ -20 dBc | Pass   |



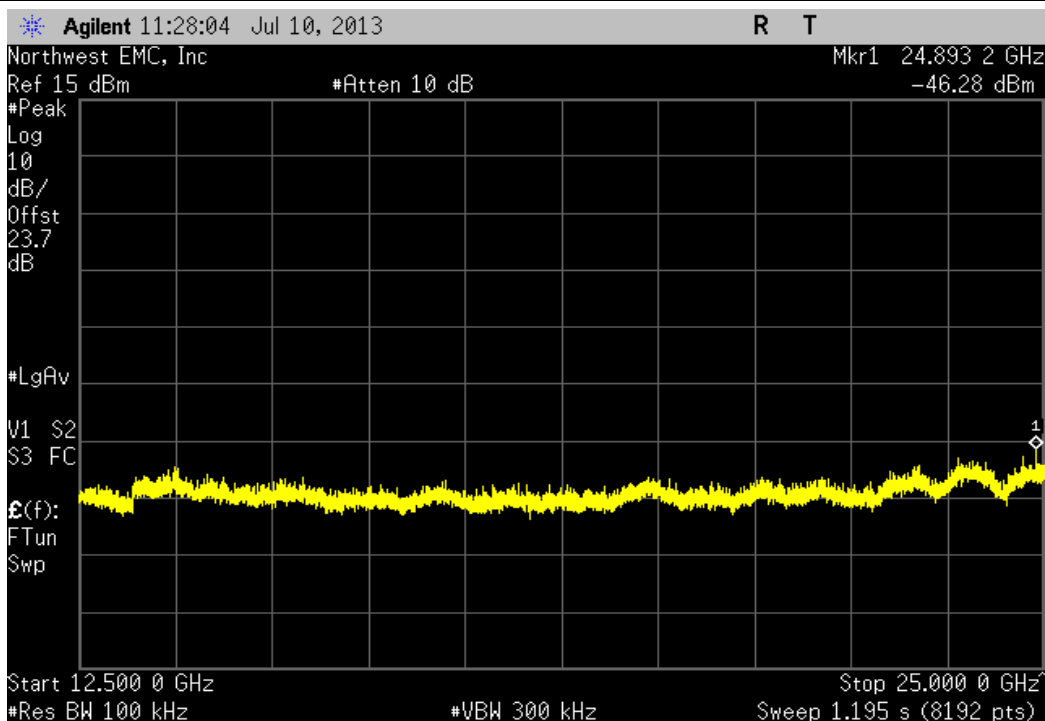
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |       |       |        |
|----------------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                        | Value | Limit | Result |
| Fundamental                                                                            | N/A   | N/A   | N/A    |



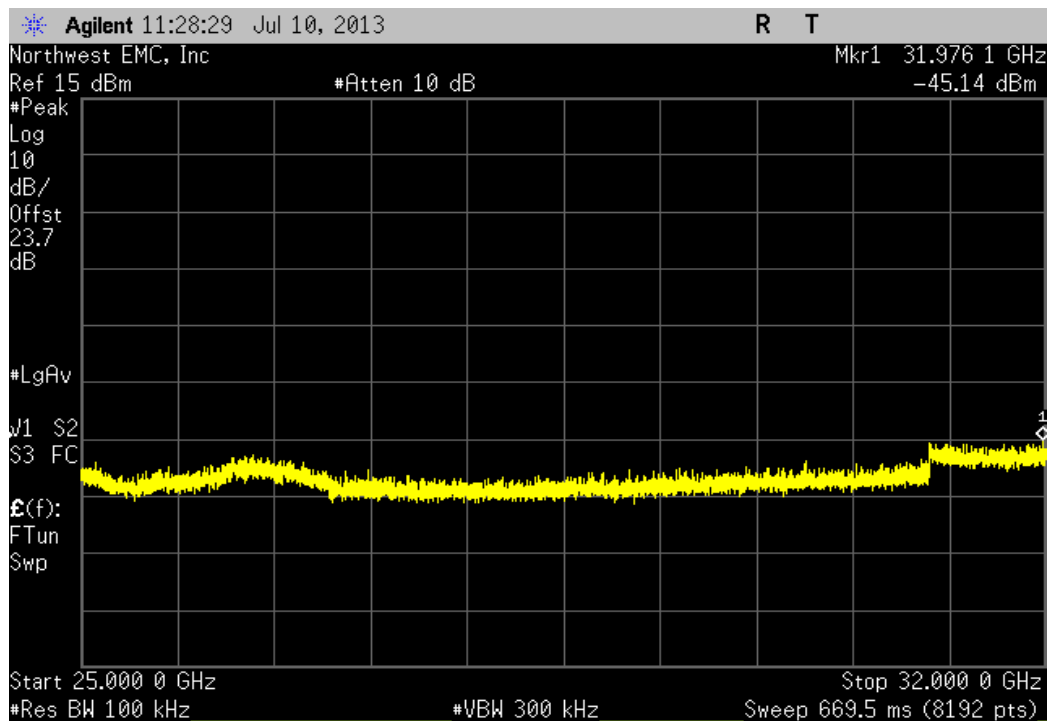
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                      | -52.02 dBc | ≤ -20 dBc | Pass   |  |



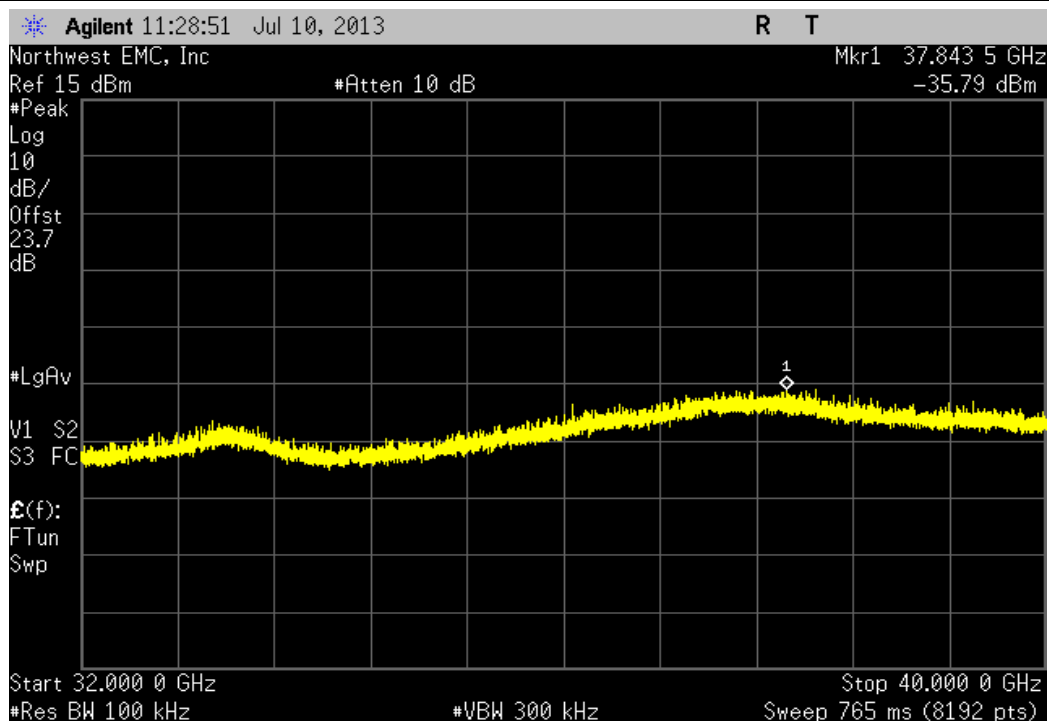
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -46.52 dBc | ≤ -20 dBc | Pass   |  |



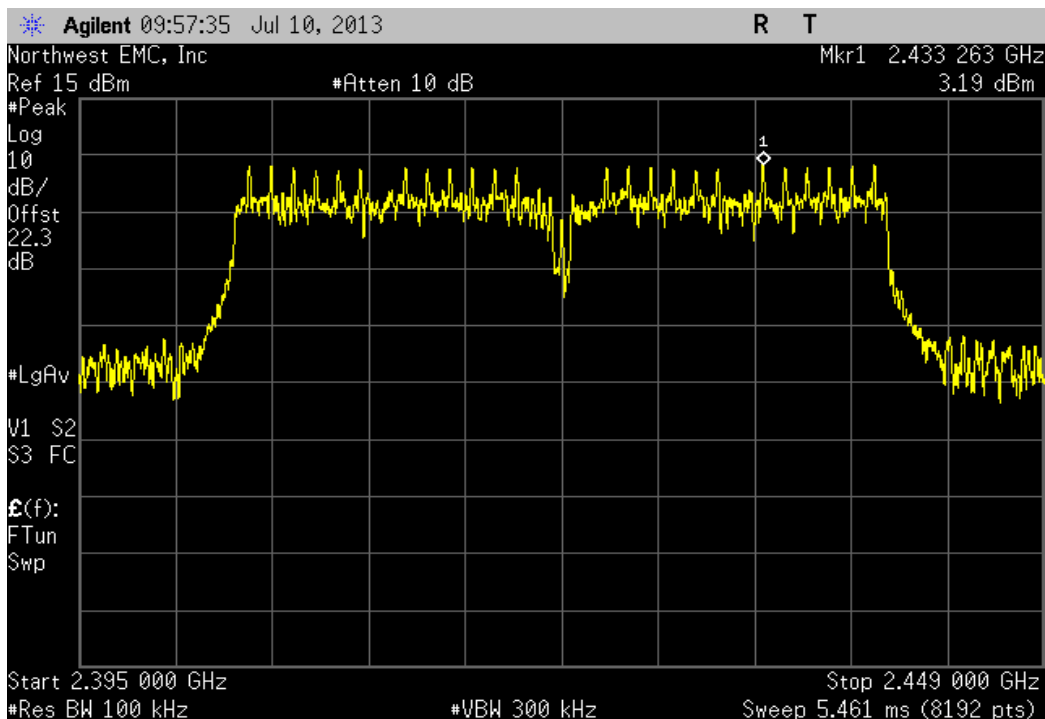
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                        |  | -45.38 dBc | ≤ -20 dBc | Pass   |



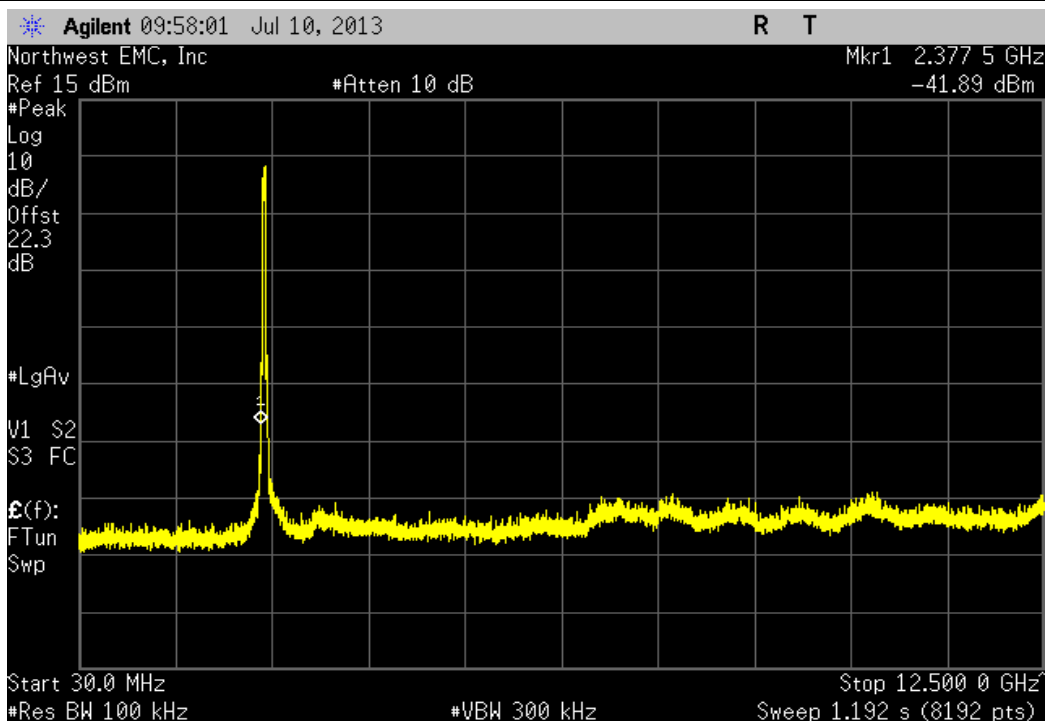
| Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                        |  | -36.03 dBc | ≤ -20 dBc | Pass   |



| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz |  |  |  |       |       |        |
|----------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                        |  |  |  | Value | Limit | Result |
| Fundamental                                                                            |  |  |  | N/A   | N/A   | N/A    |

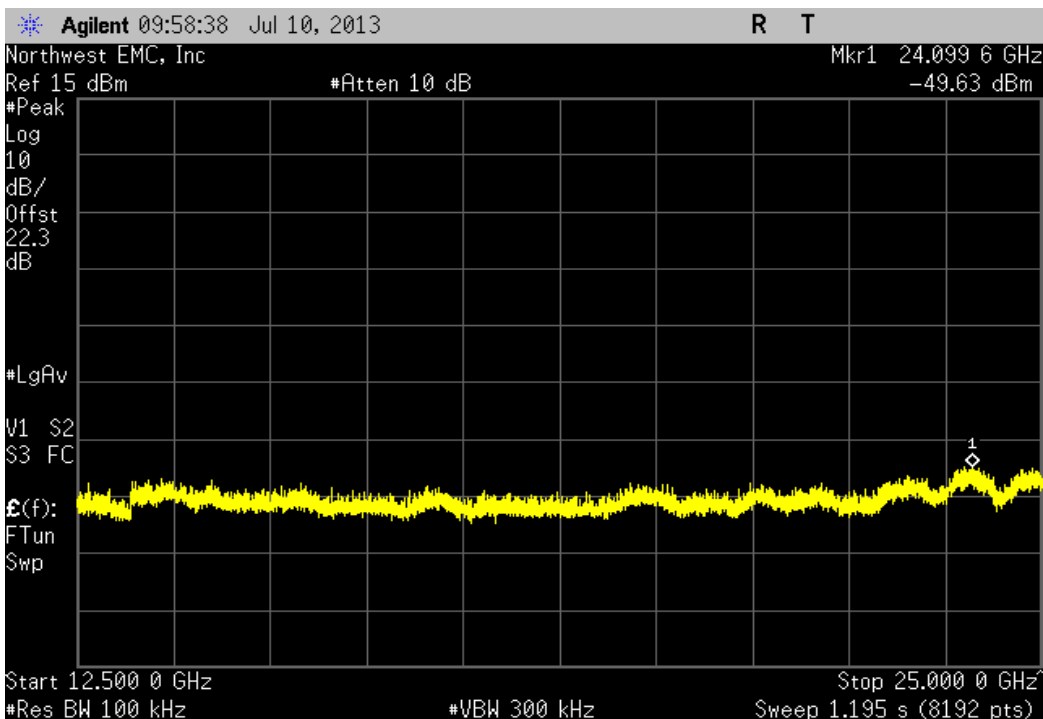


| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz |  |  |  |            |           |        |
|----------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                        |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                      |  |  |  | -45.08 dBc | ≤ -20 dBc | Pass   |



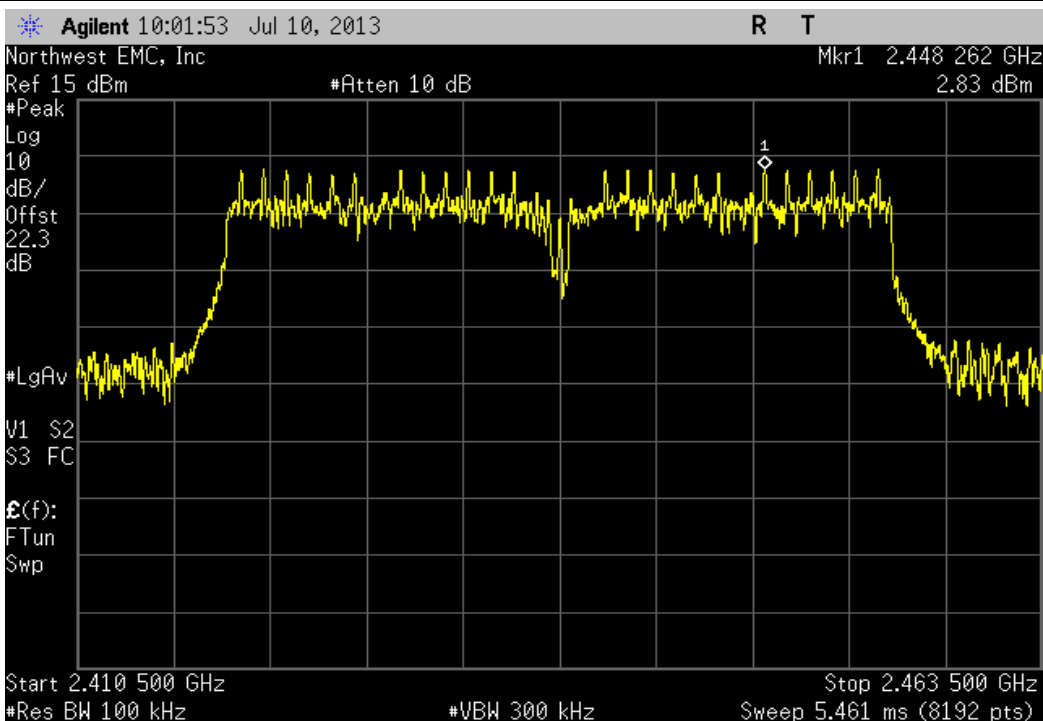
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz

| Frequency Range   | Value      | Limit     | Result |
|-------------------|------------|-----------|--------|
| 12.5 GHz - 25 GHz | -52.82 dBc | ≤ -20 dBc | Pass   |

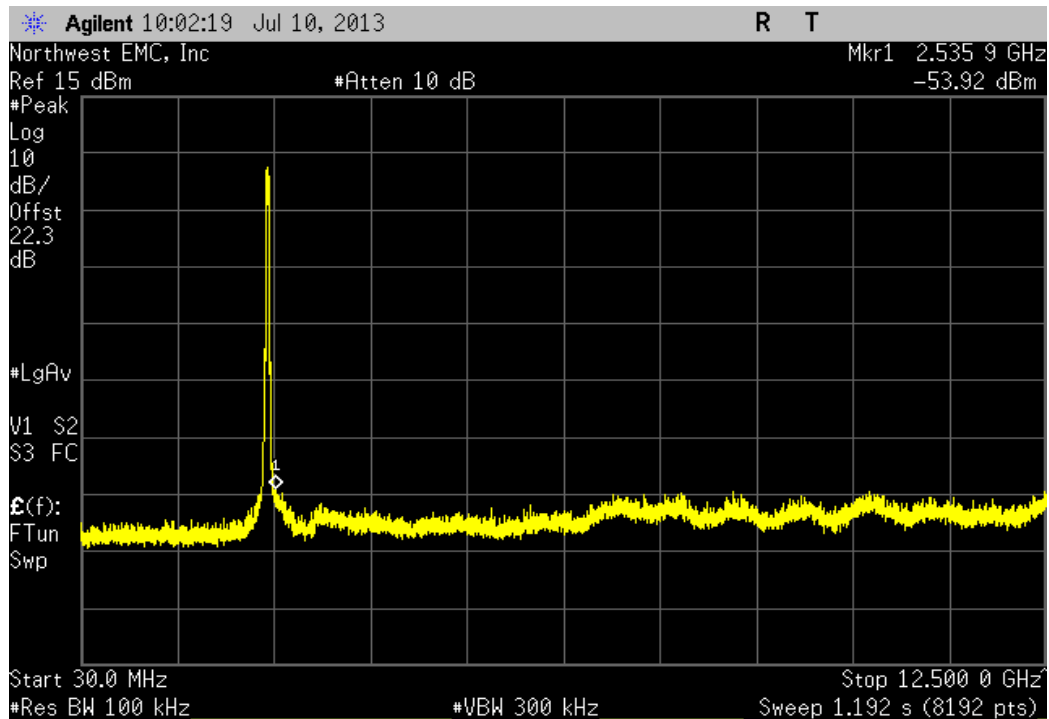


Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz

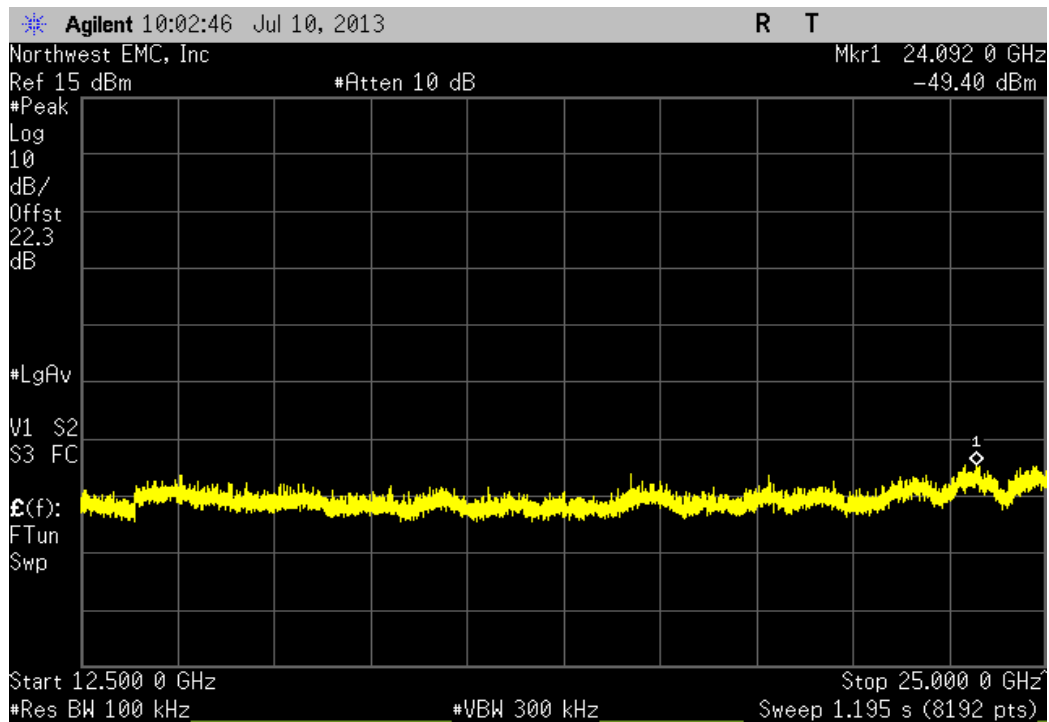
| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |



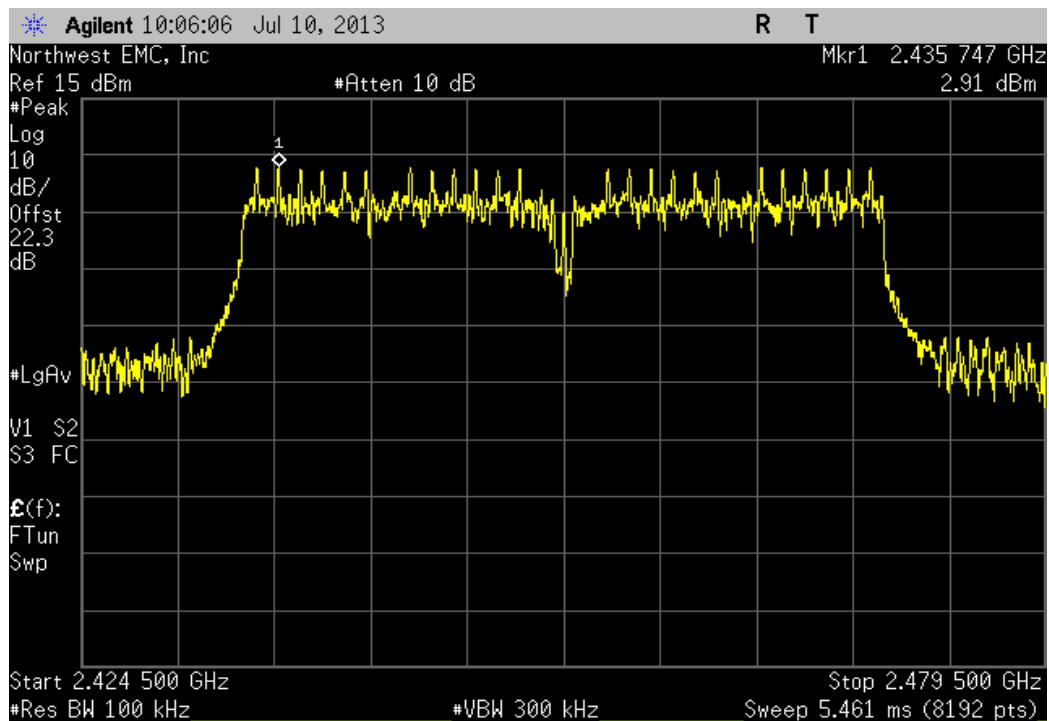
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                      | -56.75 dBc | ≤ -20 dBc | Pass   |  |



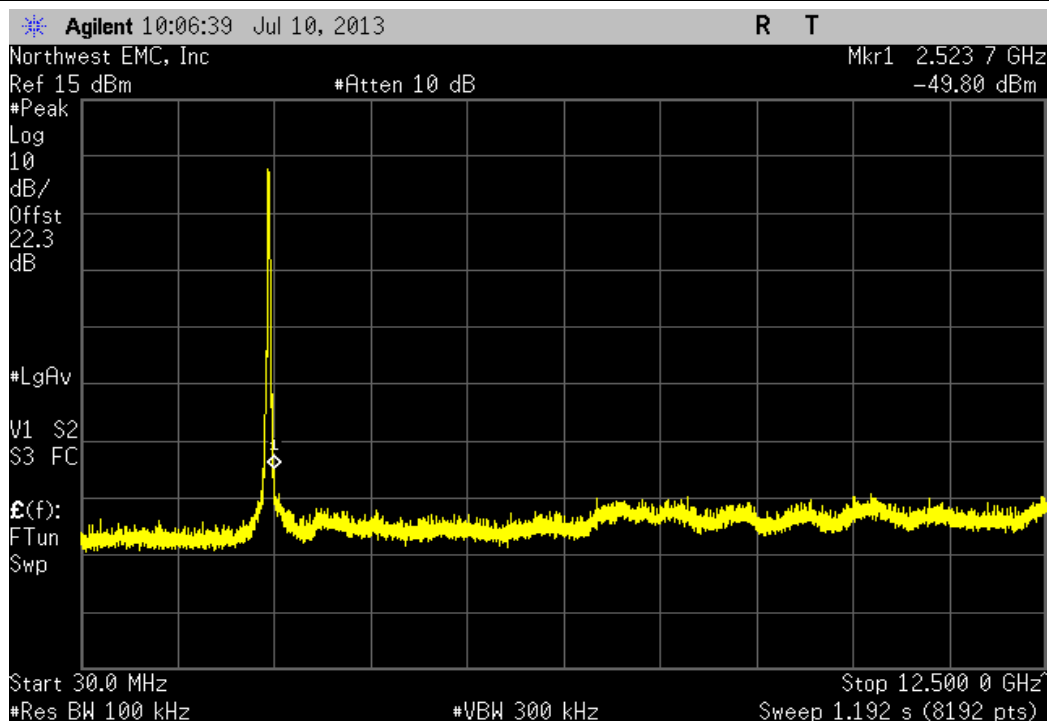
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -52.23 dBc | ≤ -20 dBc | Pass   |  |



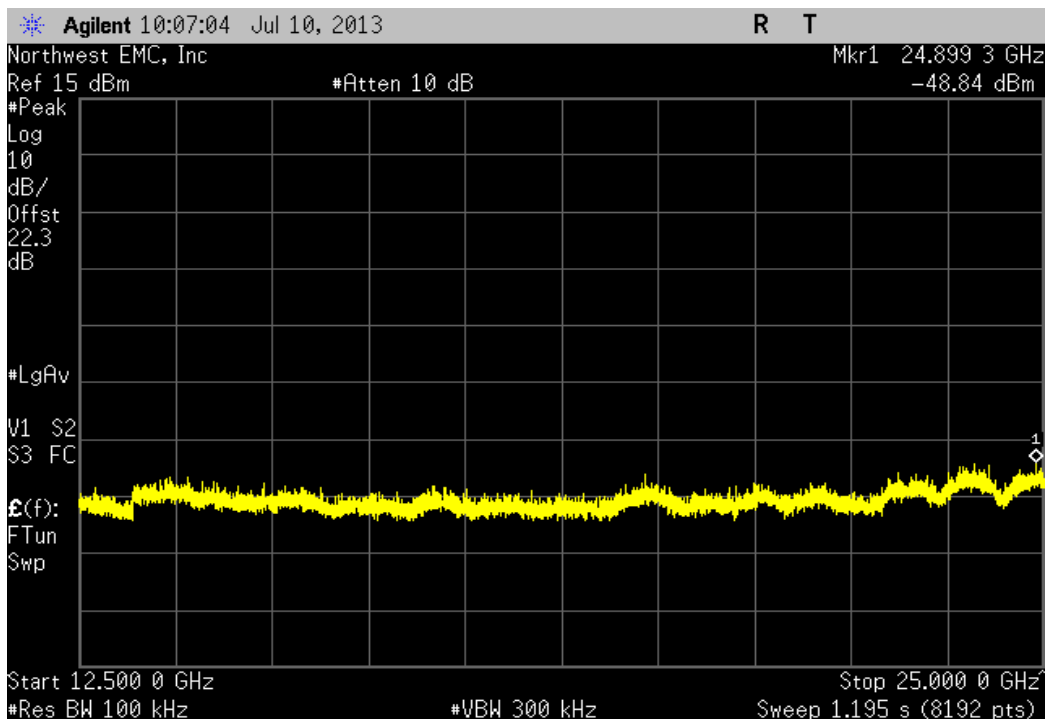
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz |  |       |       |        |  |  |
|------------------------------------------------------------------------------------------|--|-------|-------|--------|--|--|
| Frequency Range                                                                          |  | Value | Limit | Result |  |  |
| Fundamental                                                                              |  | N/A   | N/A   | N/A    |  |  |



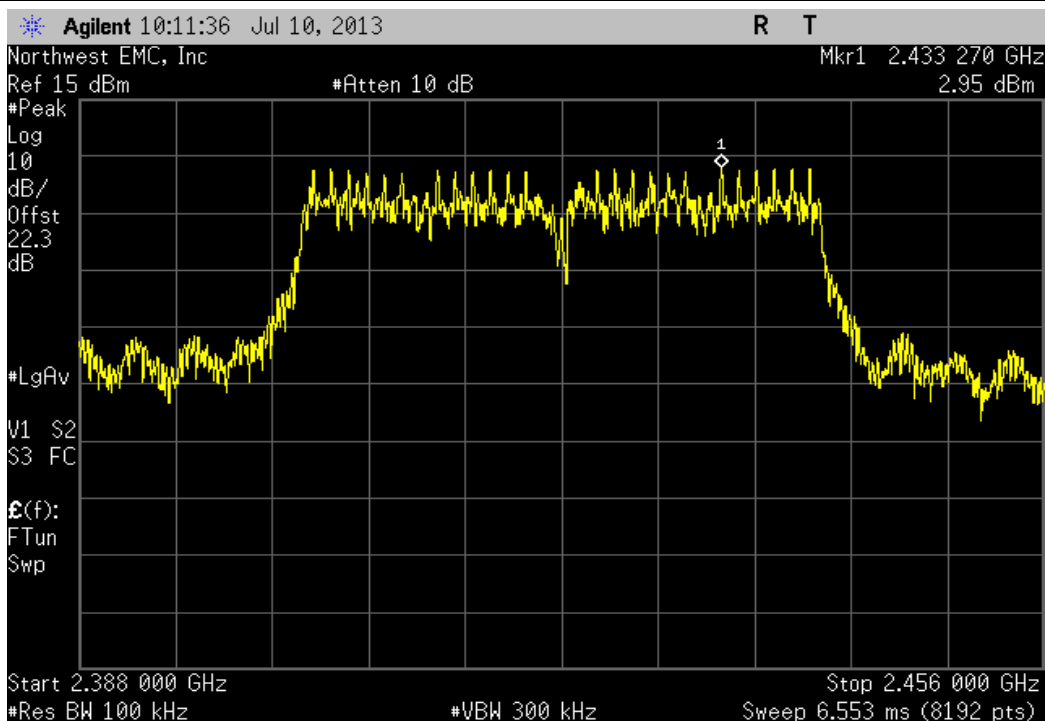
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz |  |            |           |        |  |  |
|------------------------------------------------------------------------------------------|--|------------|-----------|--------|--|--|
| Frequency Range                                                                          |  | Value      | Limit     | Result |  |  |
| 30 MHz - 12.5 GHz                                                                        |  | -52.71 dBc | ≤ -20 dBc | Pass   |  |  |



| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz |            |           |        |  |
|------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                          | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                        | -51.75 dBc | ≤ -20 dBc | Pass   |  |

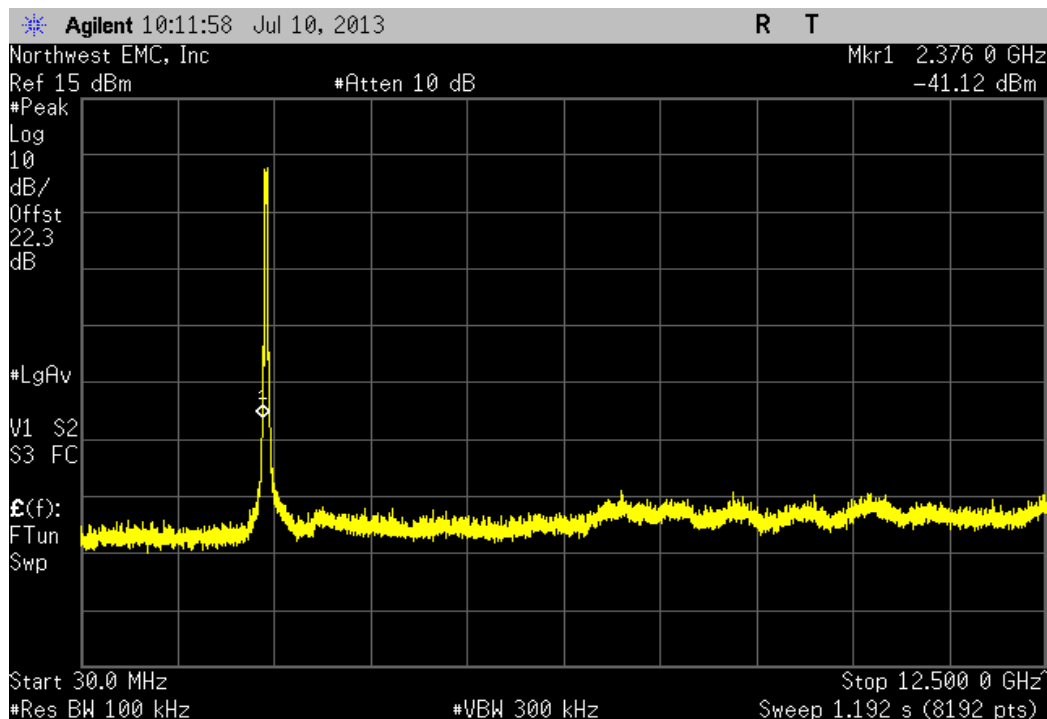


| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz |       |       |        |  |
|-----------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                         | Value | Limit | Result |  |
| Fundamental                                                                             | N/A   | N/A   | N/A    |  |

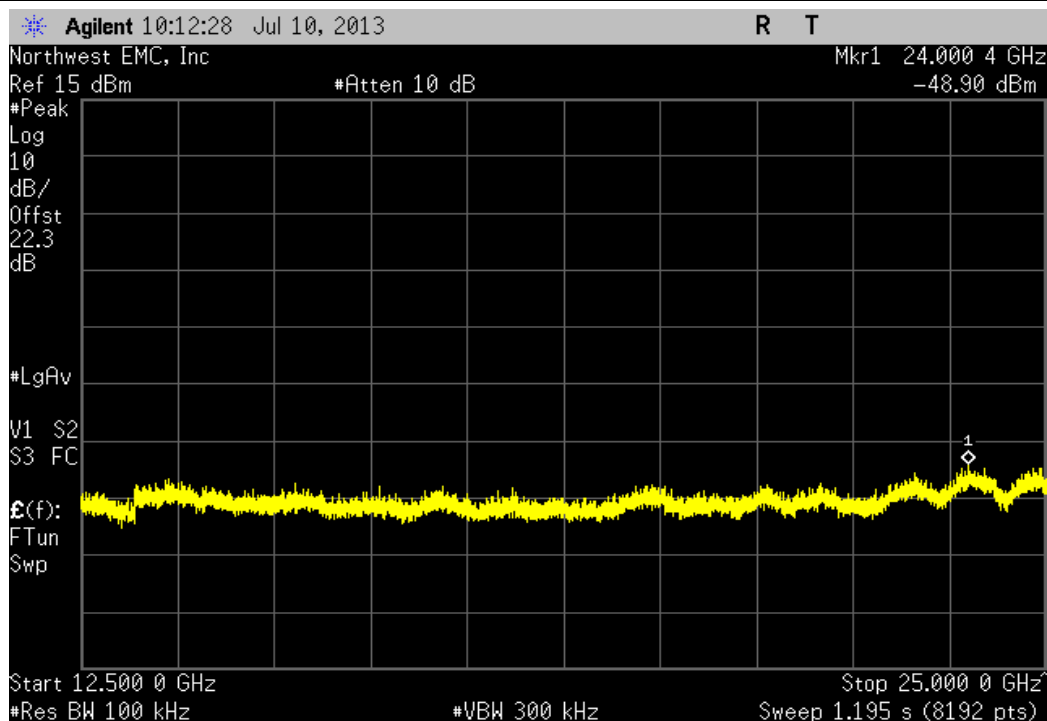




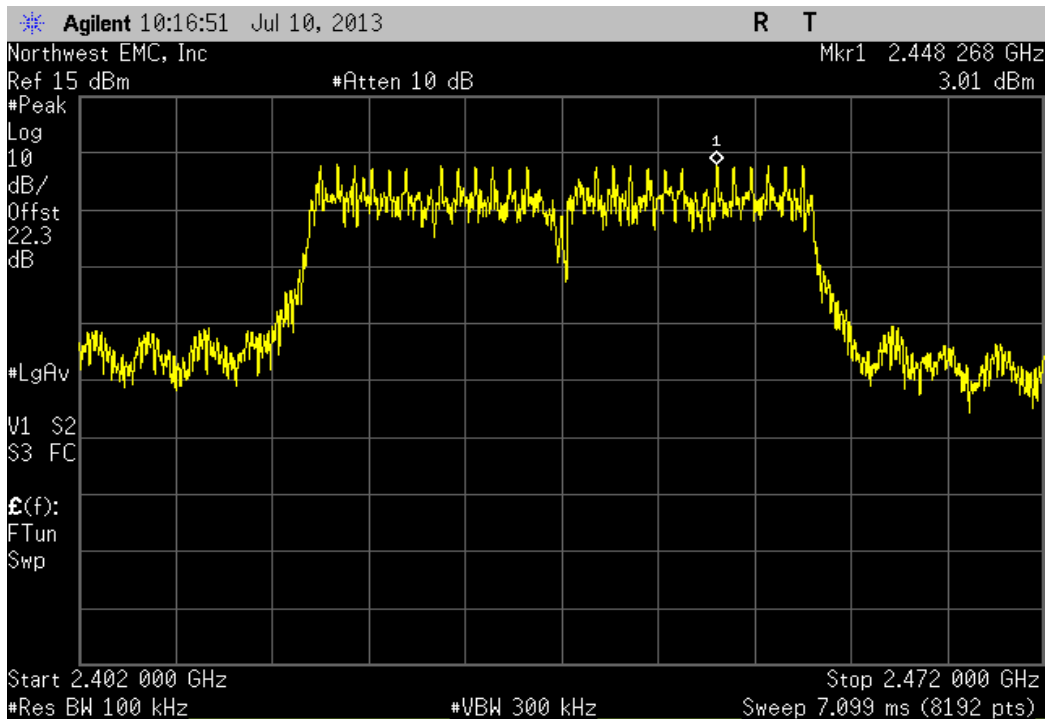
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -44.08 dBc | ≤ -20 dBc | Pass   |  |



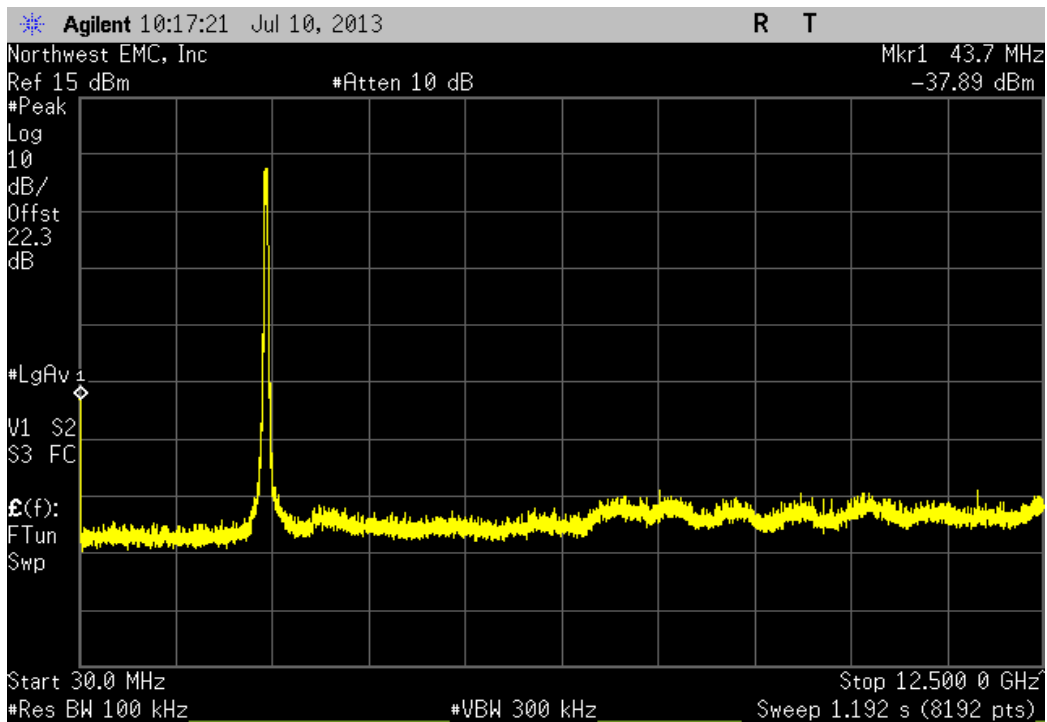
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -51.86 dBc | ≤ -20 dBc | Pass   |  |



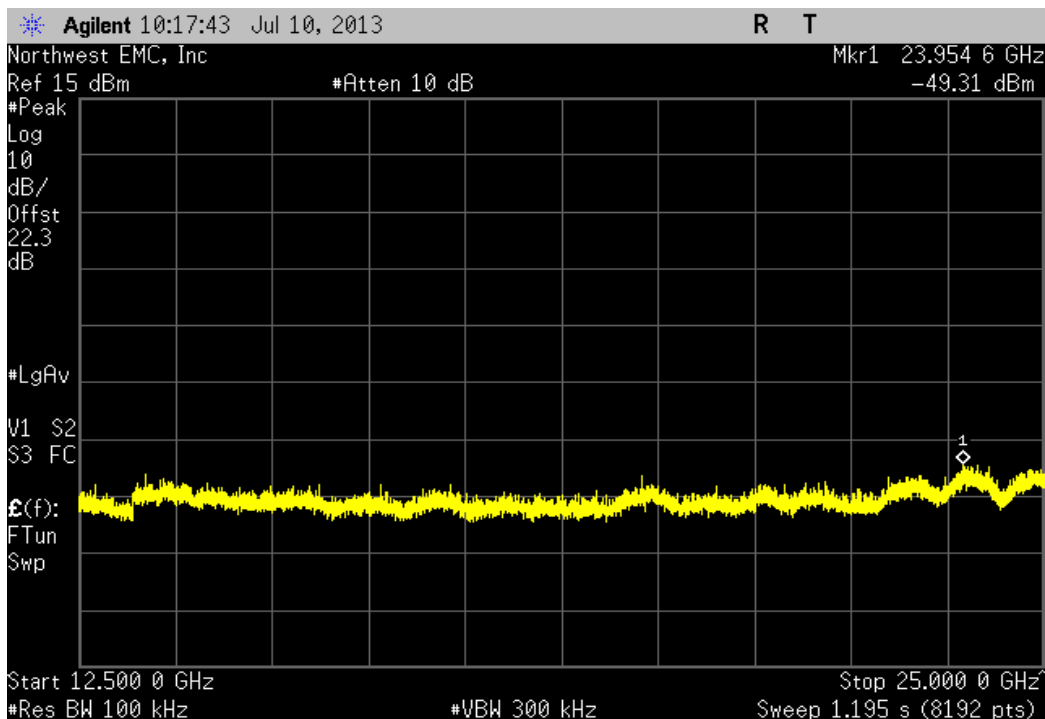
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz |             |  |       |       |        |  |
|-----------------------------------------------------------------------------------------|-------------|--|-------|-------|--------|--|
| Frequency Range                                                                         |             |  | Value | Limit | Result |  |
|                                                                                         | Fundamental |  | N/A   | N/A   | N/A    |  |



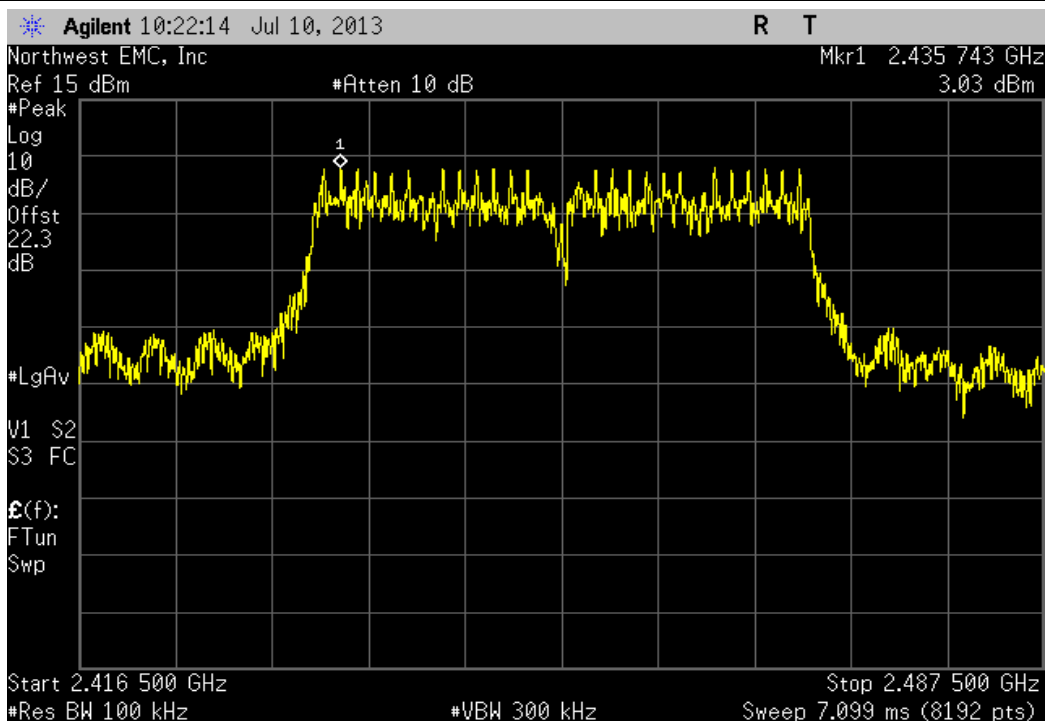
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz |                   |  |           |           |        |  |
|-----------------------------------------------------------------------------------------|-------------------|--|-----------|-----------|--------|--|
| Frequency Range                                                                         |                   |  | Value     | Limit     | Result |  |
|                                                                                         | 30 MHz - 12.5 GHz |  | -40.9 dBc | ≤ -20 dBc | Pass   |  |



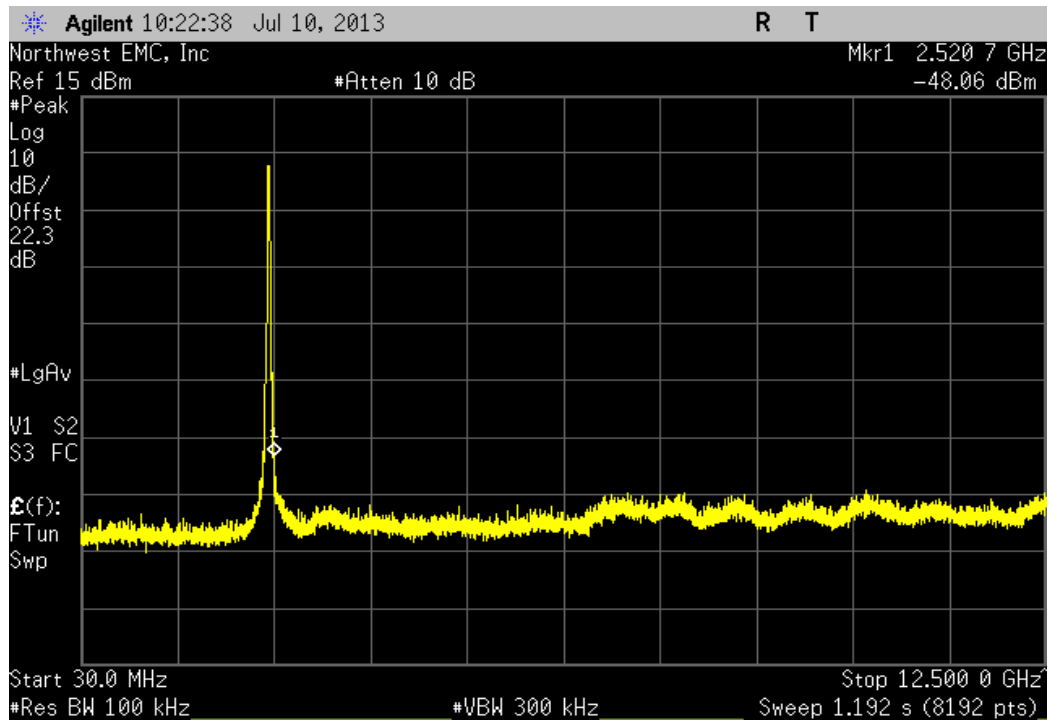
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -52.32 dBc | ≤ -20 dBc | Pass   |  |



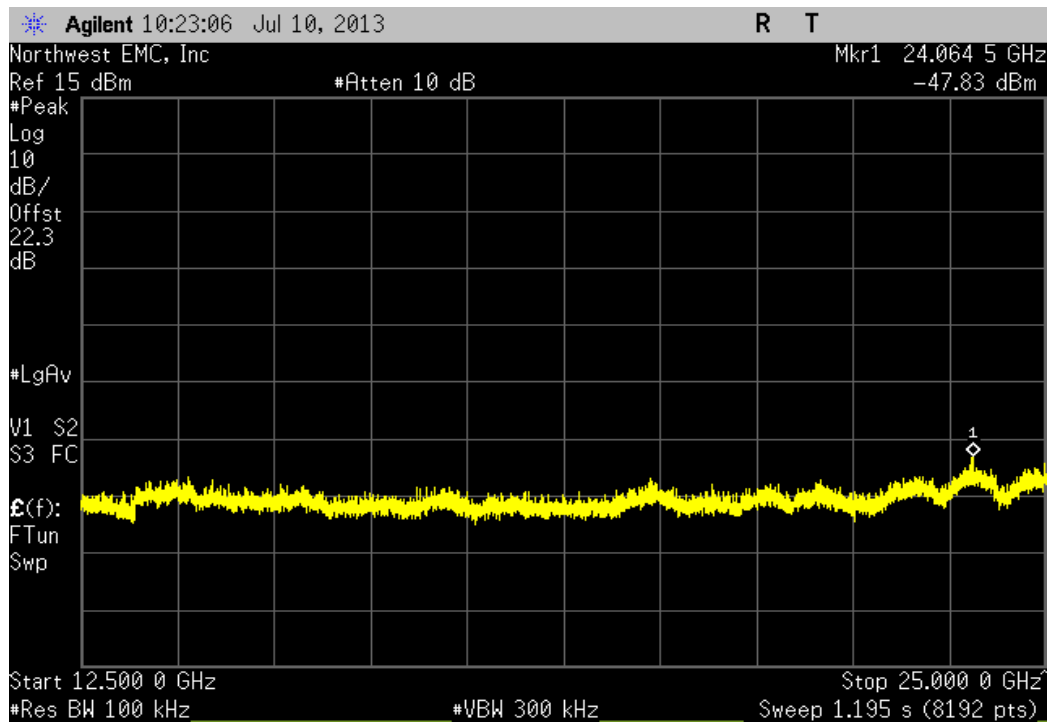
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz |       |       |        |  |
|-------------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                           | Value | Limit | Result |  |
| Fundamental                                                                               | N/A   | N/A   | N/A    |  |



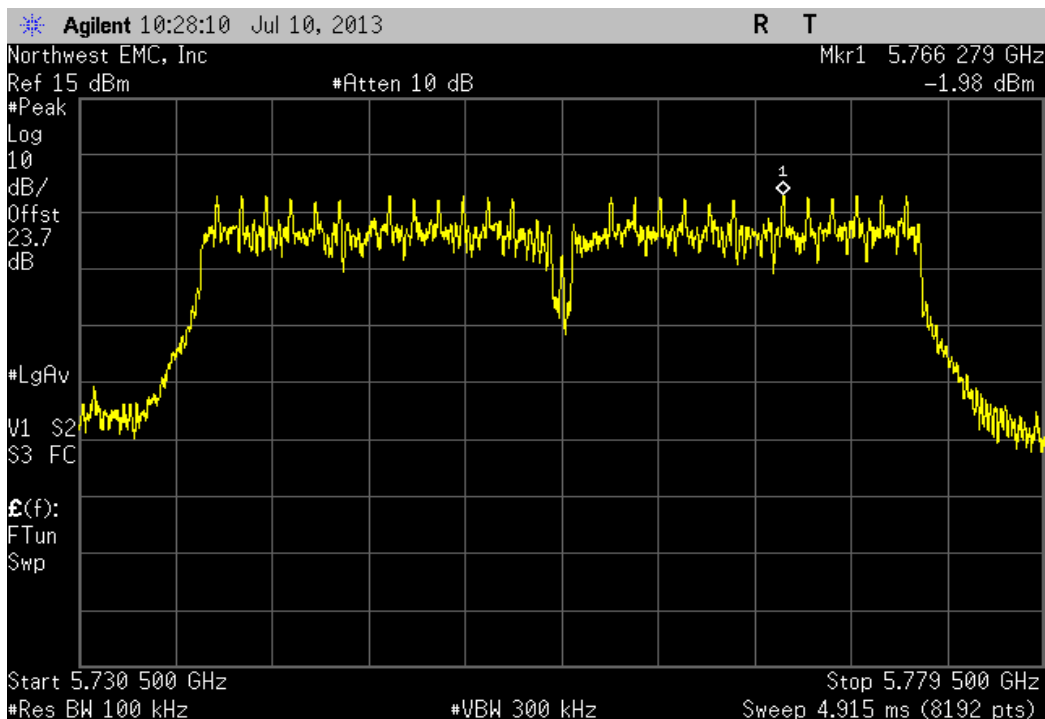
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                         | -51.09 dBc | ≤ -20 dBc | Pass   |  |



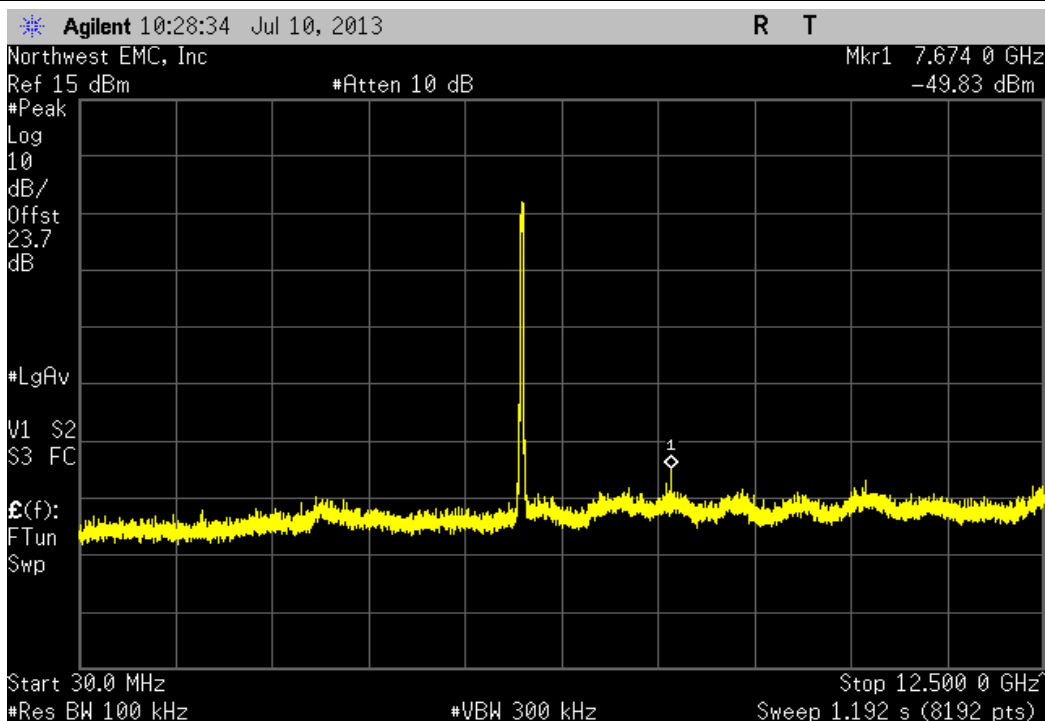
| Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                         | -50.86 dBc | ≤ -20 dBc | Pass   |  |



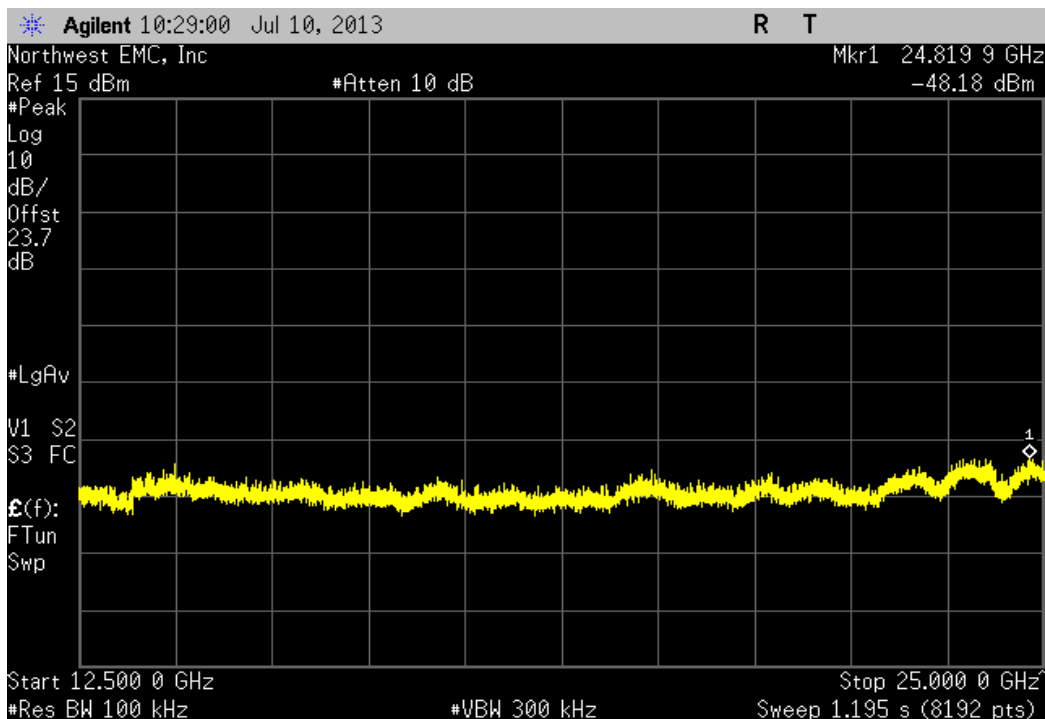
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |  |  |  |       |       |        |
|------------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                          |  |  |  | Value | Limit | Result |
| Fundamental                                                                              |  |  |  | N/A   | N/A   | N/A    |



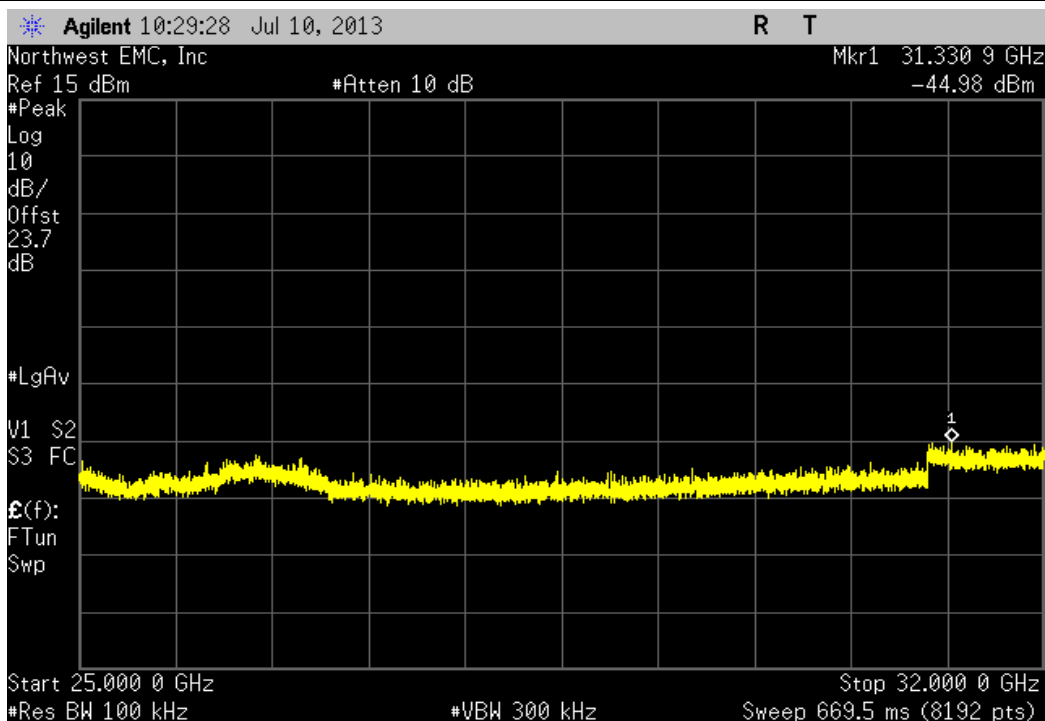
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |  |  |  |            |           |        |
|------------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                          |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                        |  |  |  | -47.85 dBc | ≤ -20 dBc | Pass   |



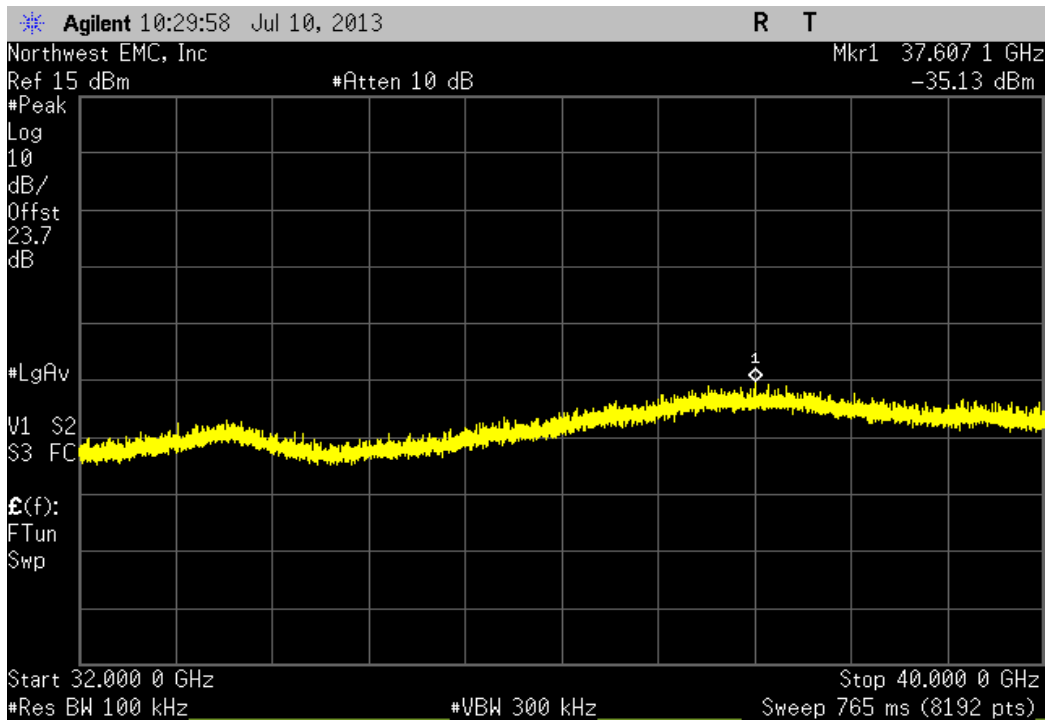
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |           |           |        |  |
|------------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                          | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                        | -46.2 dBc | ≤ -20 dBc | Pass   |  |



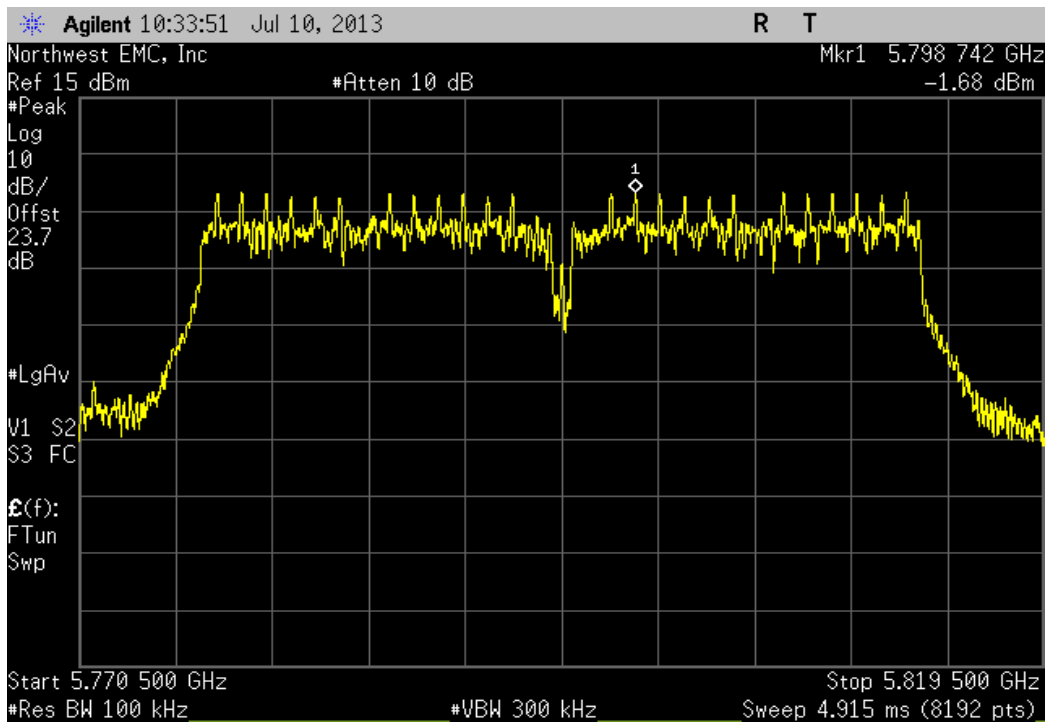
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |         |           |        |  |
|------------------------------------------------------------------------------------------|---------|-----------|--------|--|
| Frequency Range                                                                          | Value   | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                          | -43 dBc | ≤ -20 dBc | Pass   |  |



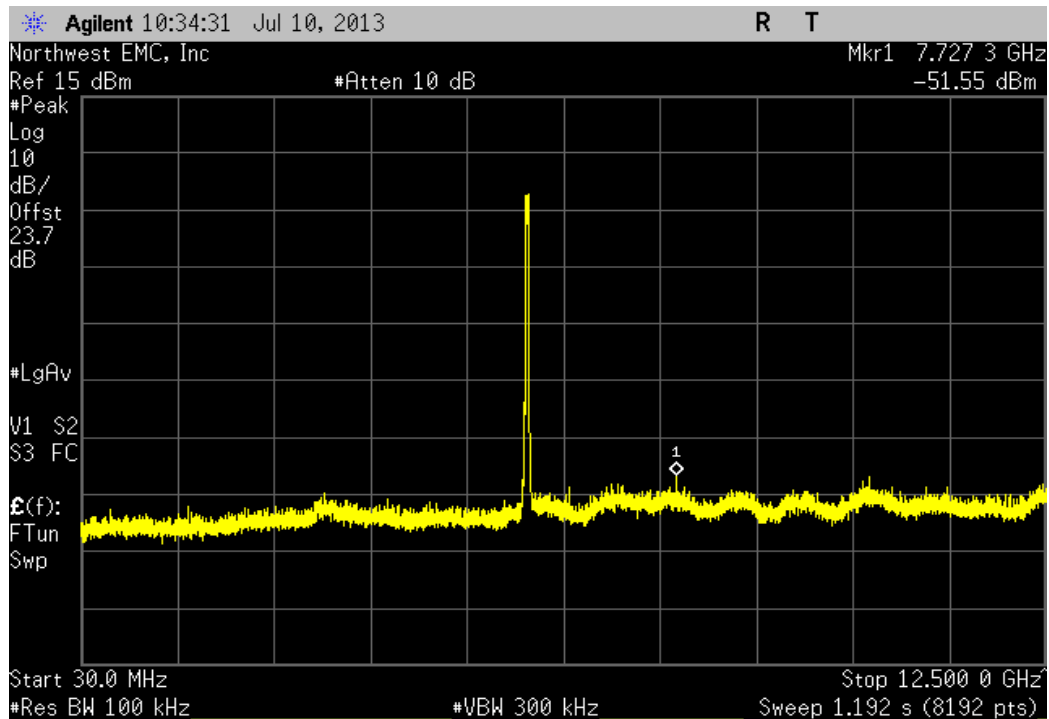
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |  |            |           |        |
|------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                          |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                          |  | -33.16 dBc | ≤ -20 dBc | Pass   |



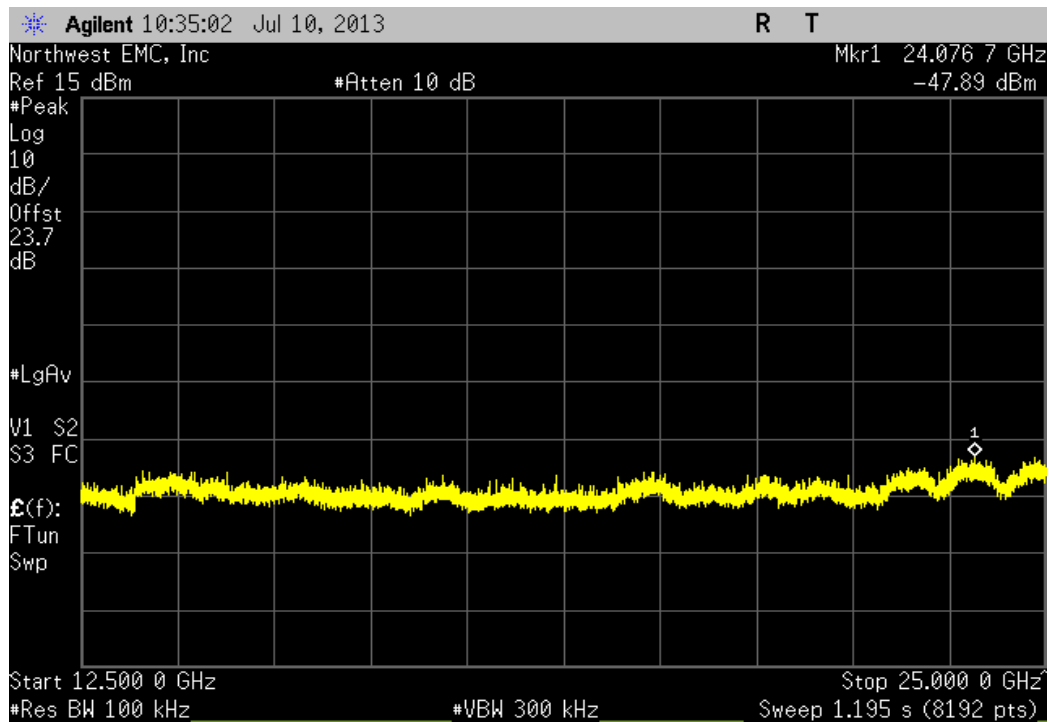
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |  |       |       |        |
|-------------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                           |  | Value | Limit | Result |
| Fundamental                                                                               |  | N/A   | N/A   | N/A    |



| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                         | -49.87 dBc | ≤ -20 dBc | Pass   |  |

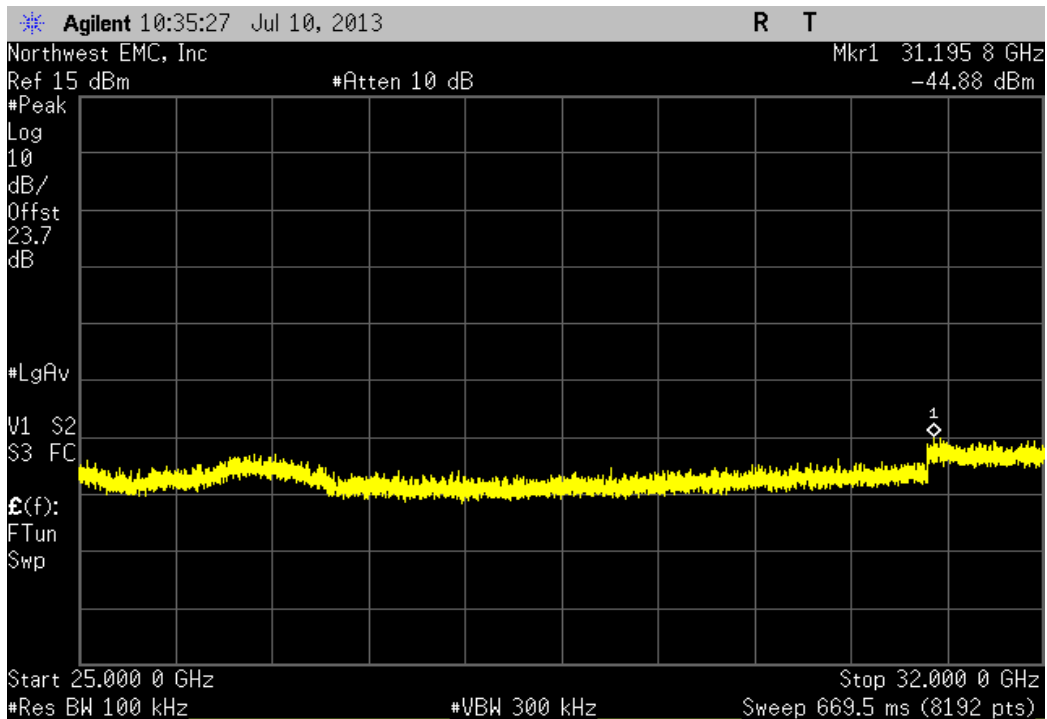


| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                         | -46.21 dBc | ≤ -20 dBc | Pass   |  |

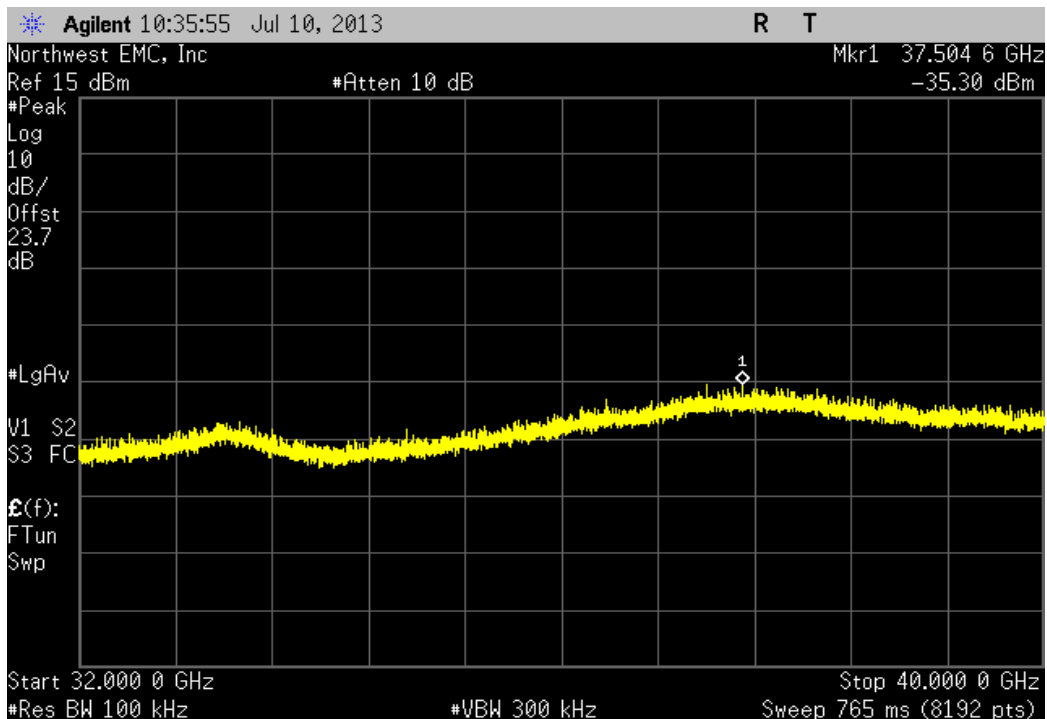




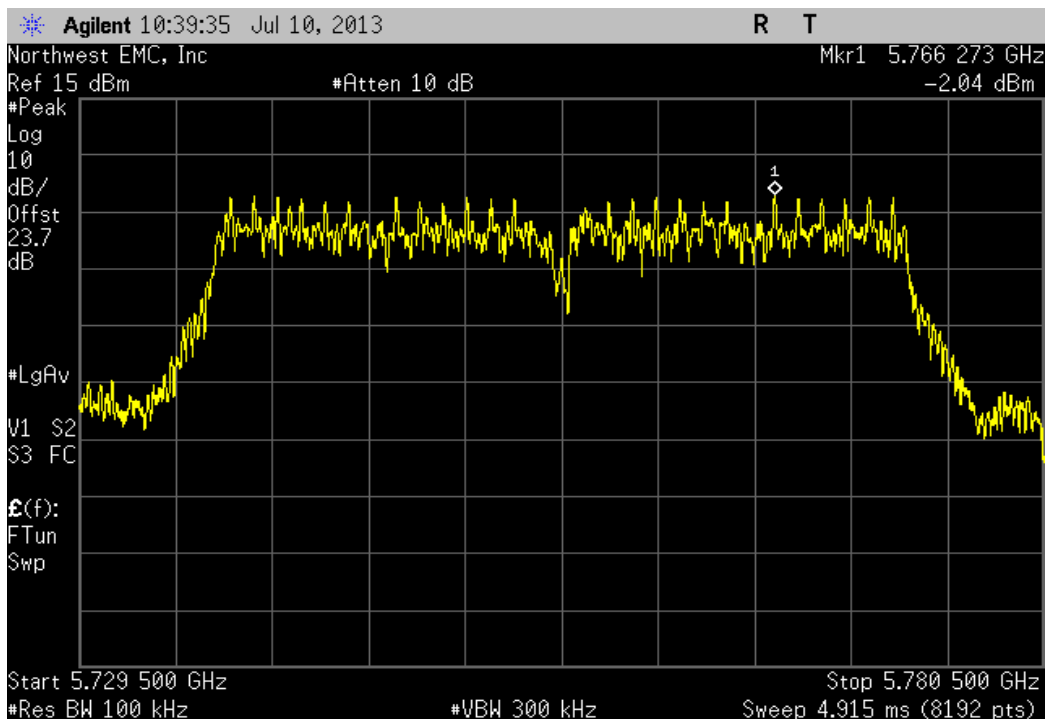
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |  |           |           |        |
|-------------------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                           |  | Value     | Limit     | Result |
| 25 GHz - 32 GHz                                                                           |  | -43.2 dBc | ≤ -20 dBc | Pass   |



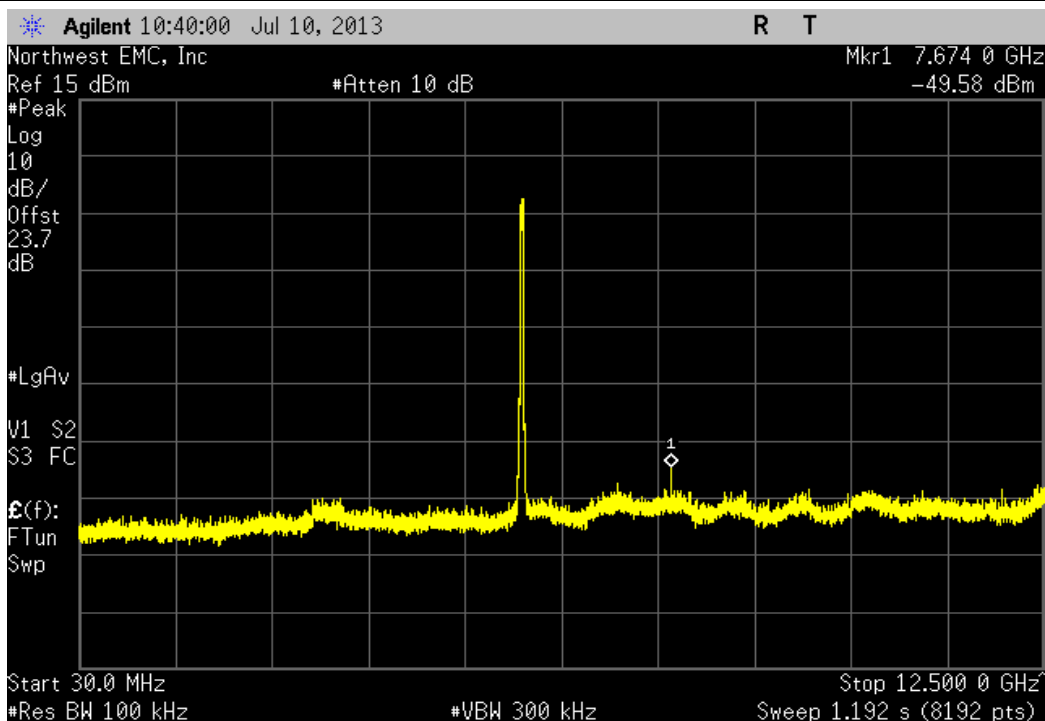
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |  |            |           |        |
|-------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                           |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                           |  | -33.62 dBc | ≤ -20 dBc | Pass   |



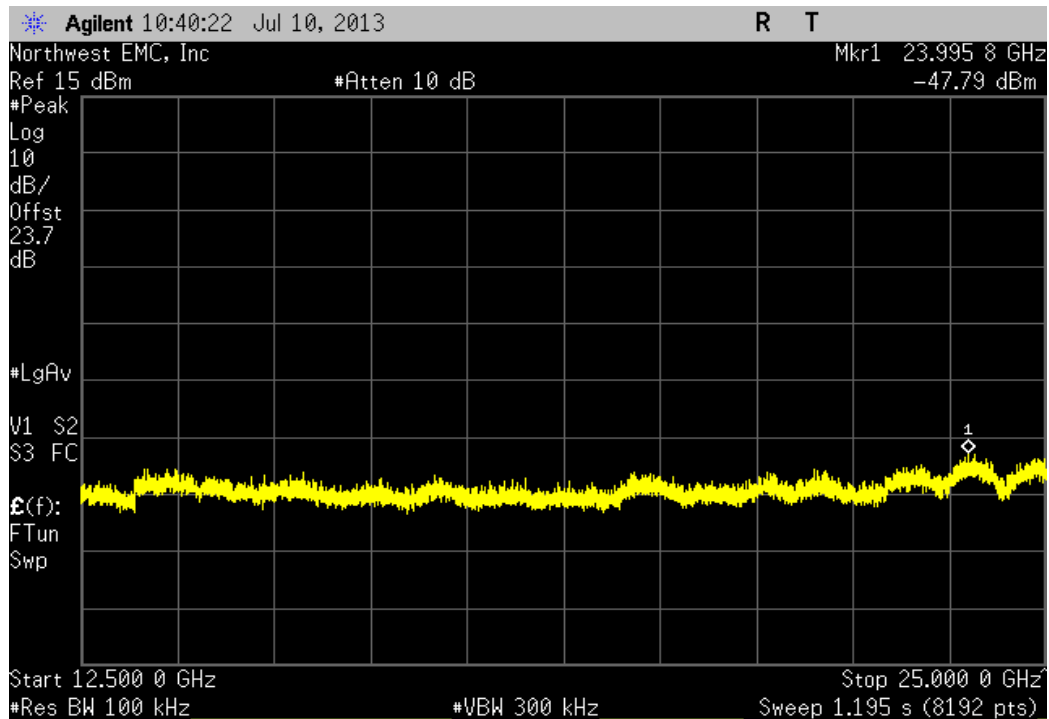
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |  |       |       |        |  |  |
|-------------------------------------------------------------------------------------------|--|-------|-------|--------|--|--|
| Frequency Range                                                                           |  | Value | Limit | Result |  |  |
| Fundamental                                                                               |  | N/A   | N/A   | N/A    |  |  |



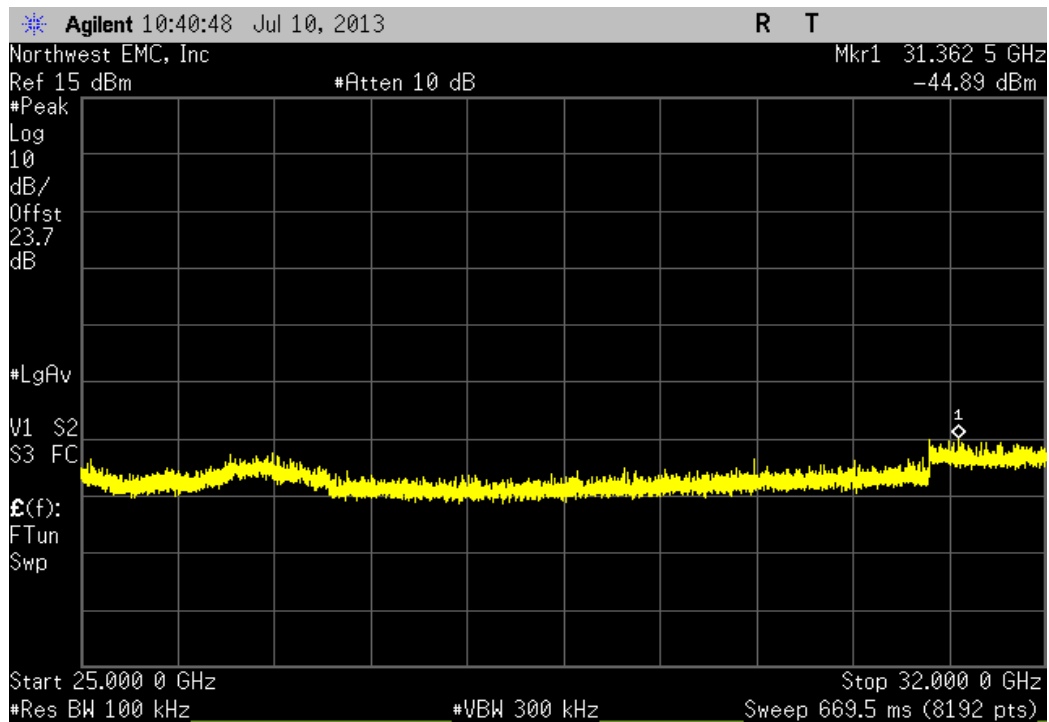
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |  |            |           |        |  |  |
|-------------------------------------------------------------------------------------------|--|------------|-----------|--------|--|--|
| Frequency Range                                                                           |  | Value      | Limit     | Result |  |  |
| 30 MHz - 12.5 GHz                                                                         |  | -47.54 dBc | ≤ -20 dBc | Pass   |  |  |



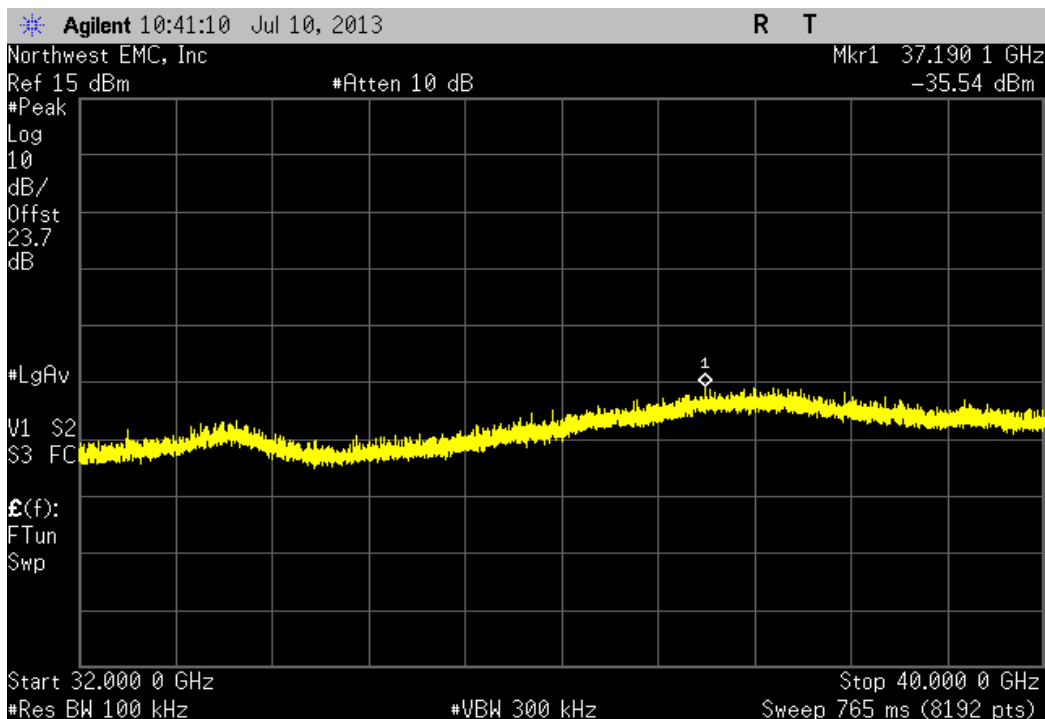
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                         | -45.75 dBc | ≤ -20 dBc | Pass   |  |



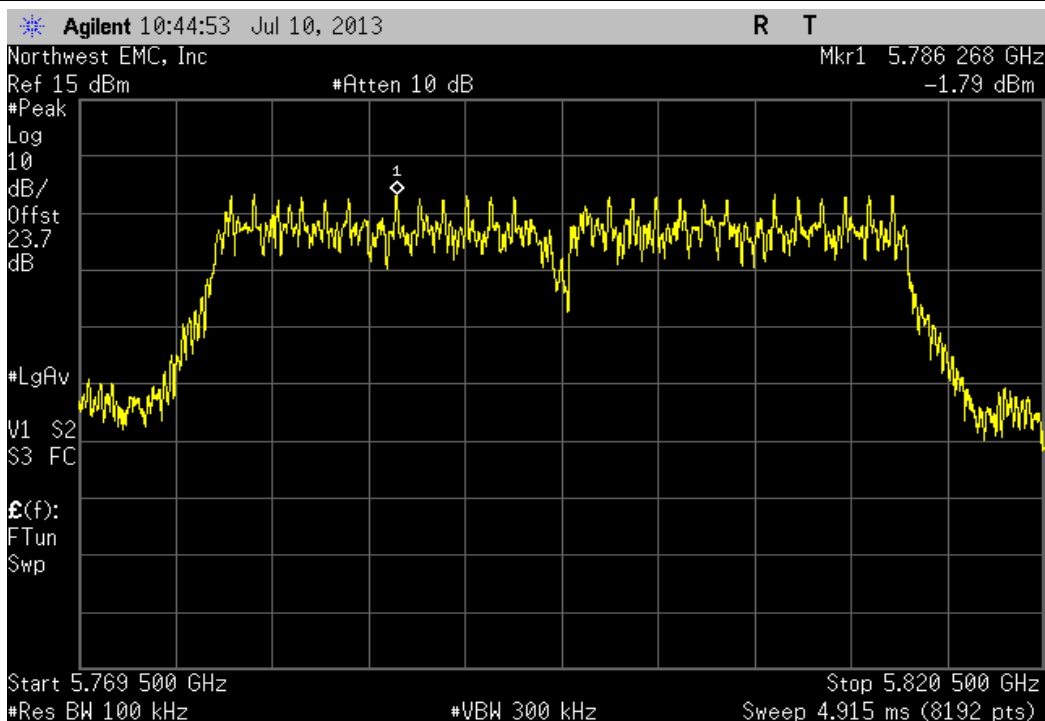
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                           | -42.85 dBc | ≤ -20 dBc | Pass   |  |



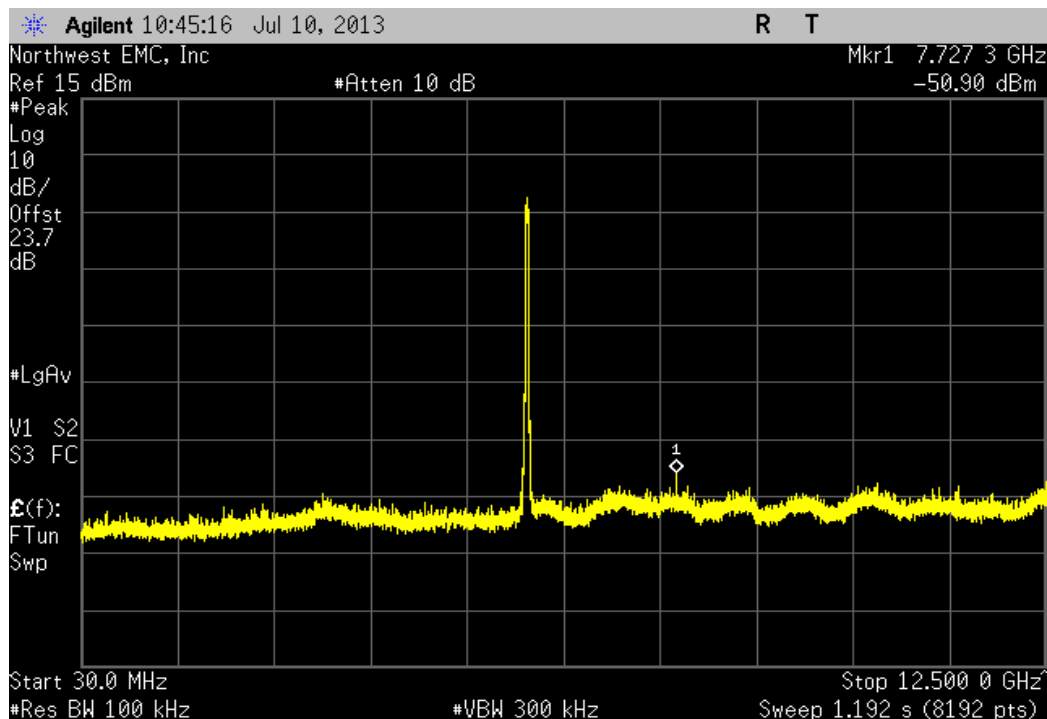
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |  |  |           |           |        |  |
|-------------------------------------------------------------------------------------------|--|--|-----------|-----------|--------|--|
| Frequency Range                                                                           |  |  | Value     | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                           |  |  | -33.5 dBc | ≤ -20 dBc | Pass   |  |



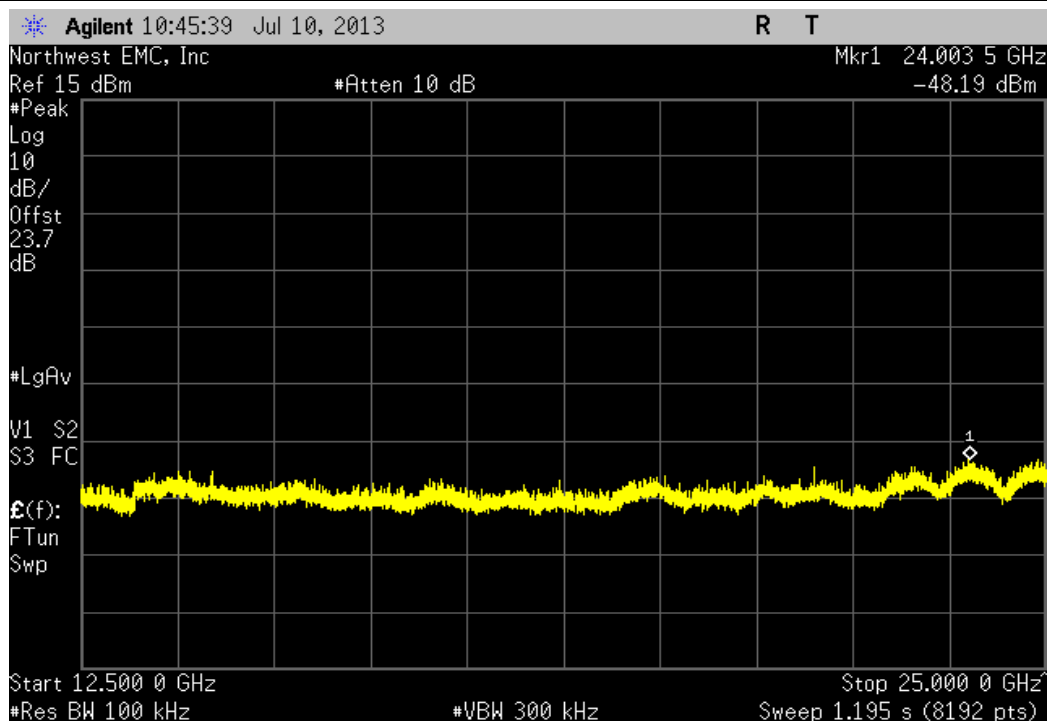
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |  |  |       |       |        |  |
|--------------------------------------------------------------------------------------------|--|--|-------|-------|--------|--|
| Frequency Range                                                                            |  |  | Value | Limit | Result |  |
| Fundamental                                                                                |  |  | N/A   | N/A   | N/A    |  |



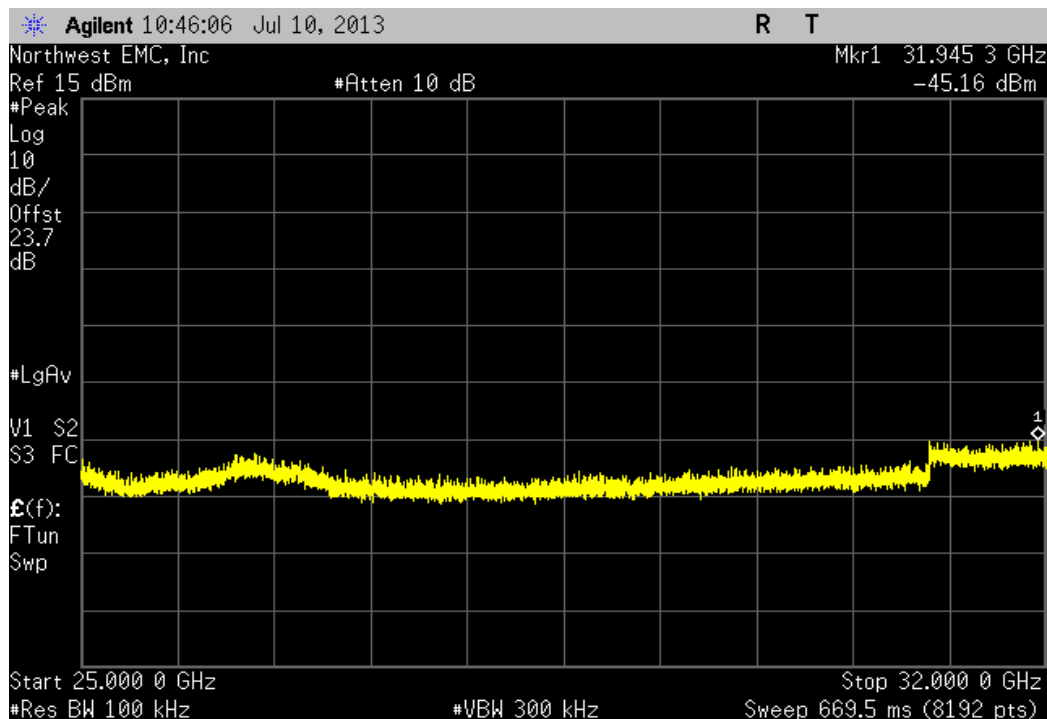
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                            | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                          | -49.11 dBc | ≤ -20 dBc | Pass   |  |



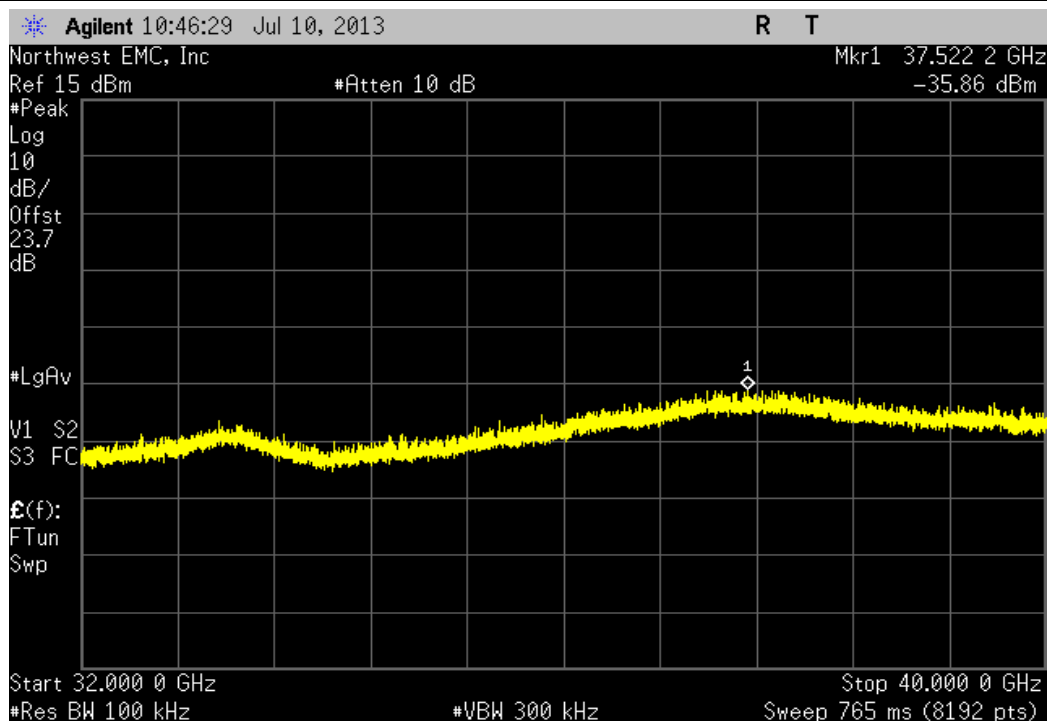
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |           |           |        |  |
|--------------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                            | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                          | -46.4 dBc | ≤ -20 dBc | Pass   |  |



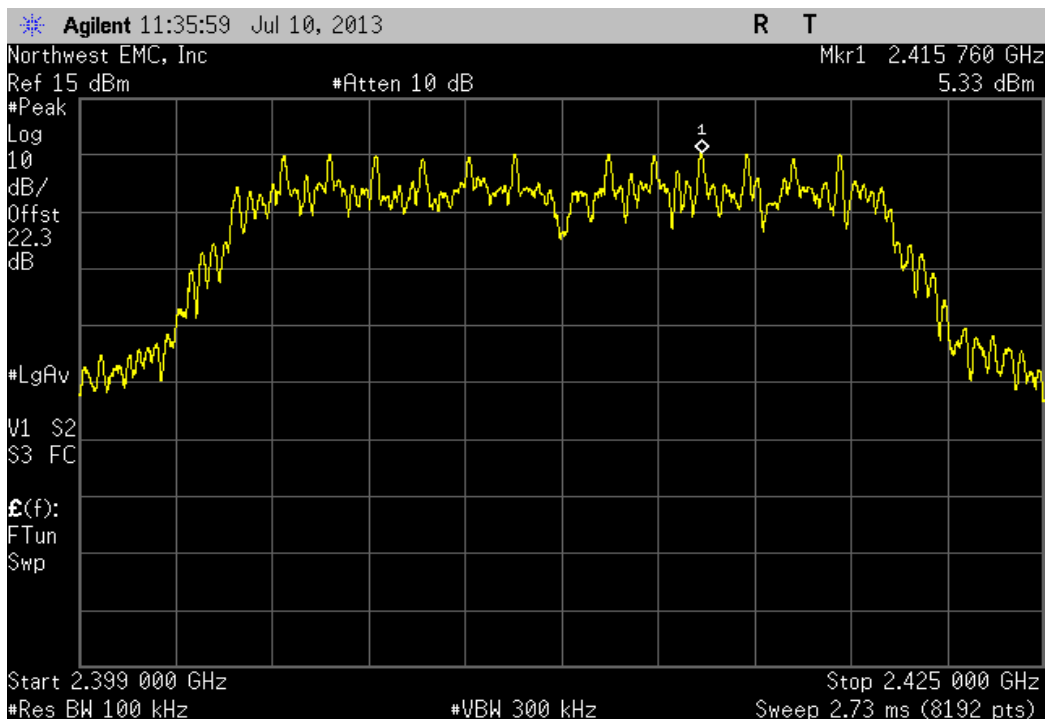
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                            |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                            |  | -43.37 dBc | ≤ -20 dBc | Pass   |



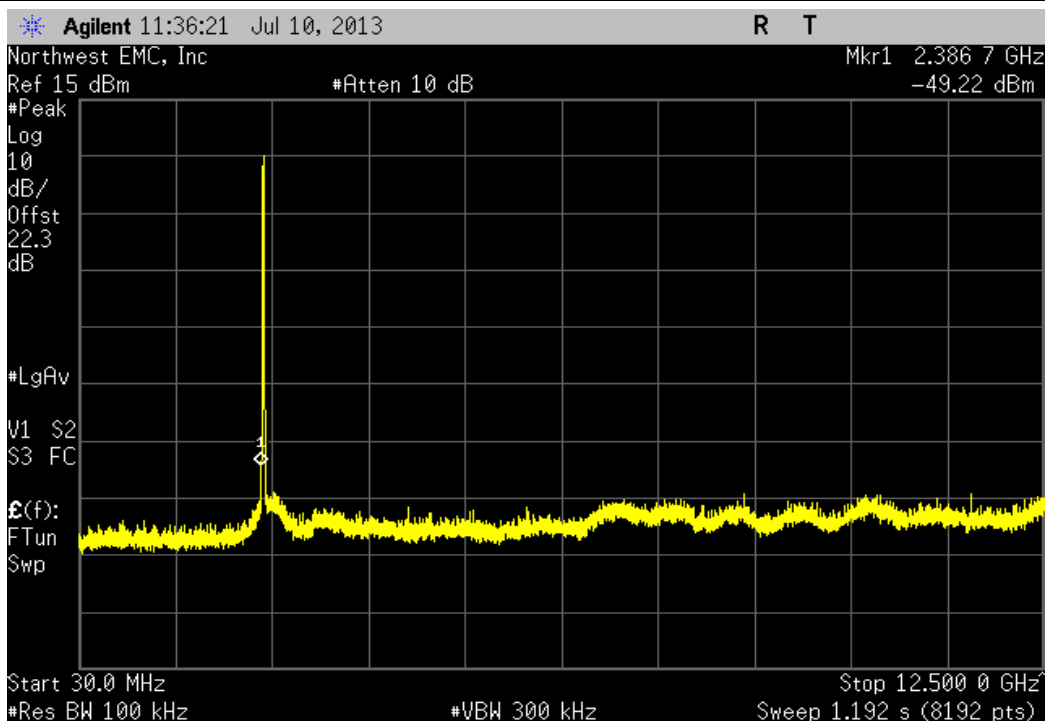
| Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                            |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                            |  | -34.07 dBc | ≤ -20 dBc | Pass   |



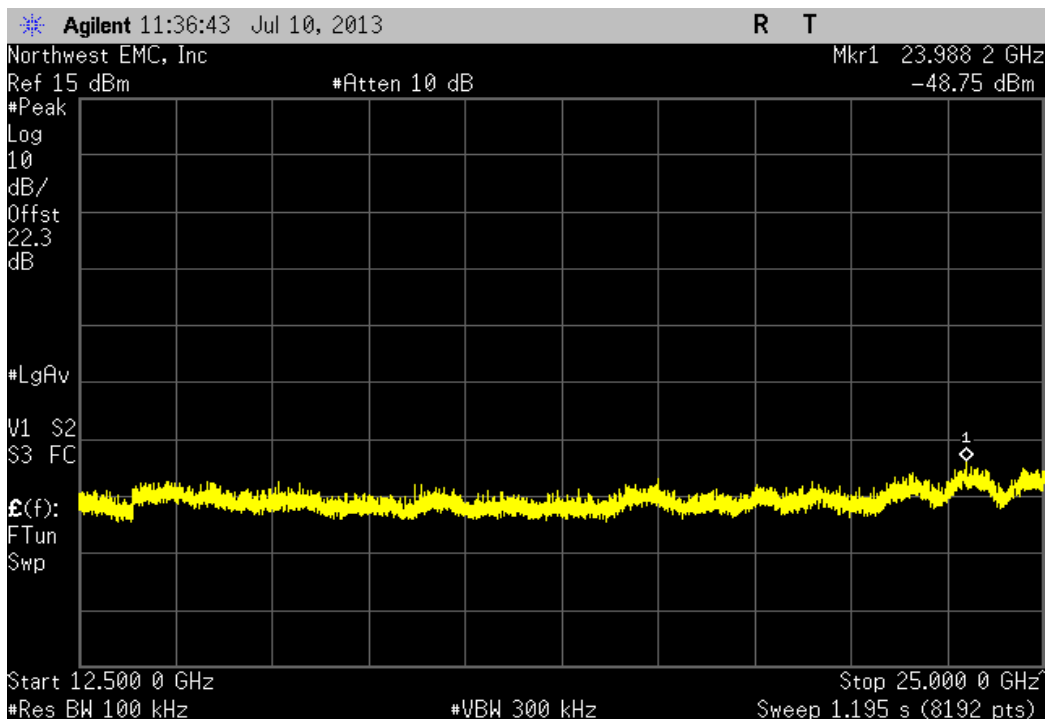
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz |  |       |       |        |
|--------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                      |  | Value | Limit | Result |
| Fundamental                                                                          |  | N/A   | N/A   | N/A    |



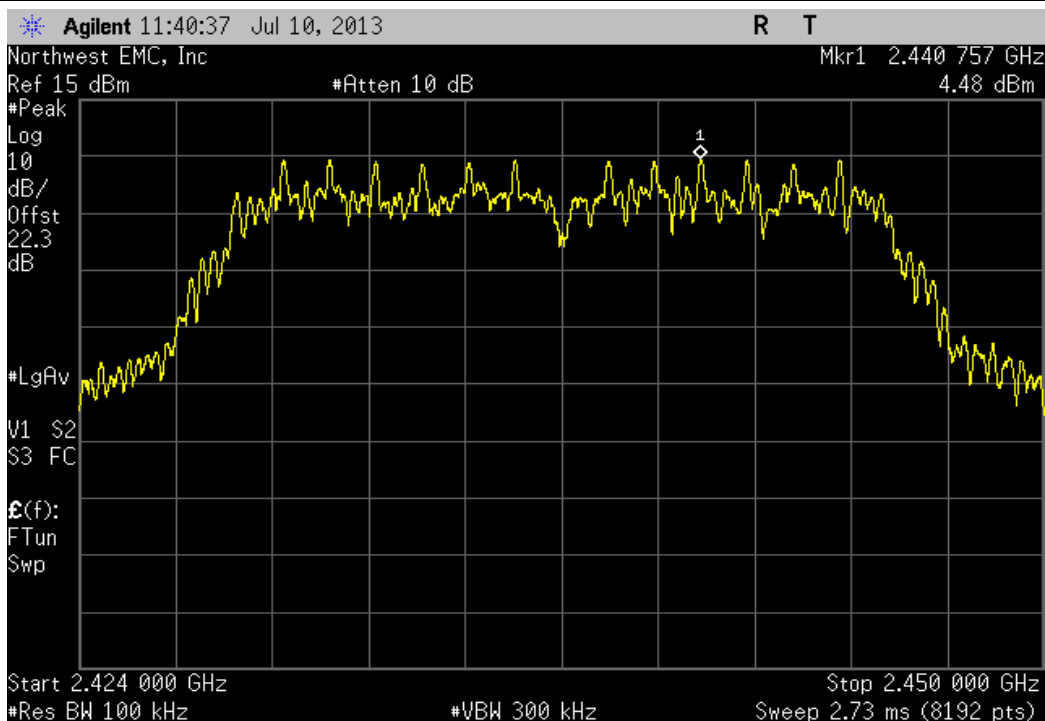
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                    |  | -54.55 dBc | ≤ -20 dBc | Pass   |



| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency                                                                            |  | Value      | Limit     | Result |
| Range                                                                                |  |            |           |        |
| 12.5 GHz - 25 GHz                                                                    |  | -54.08 dBc | ≤ -20 dBc | Pass   |

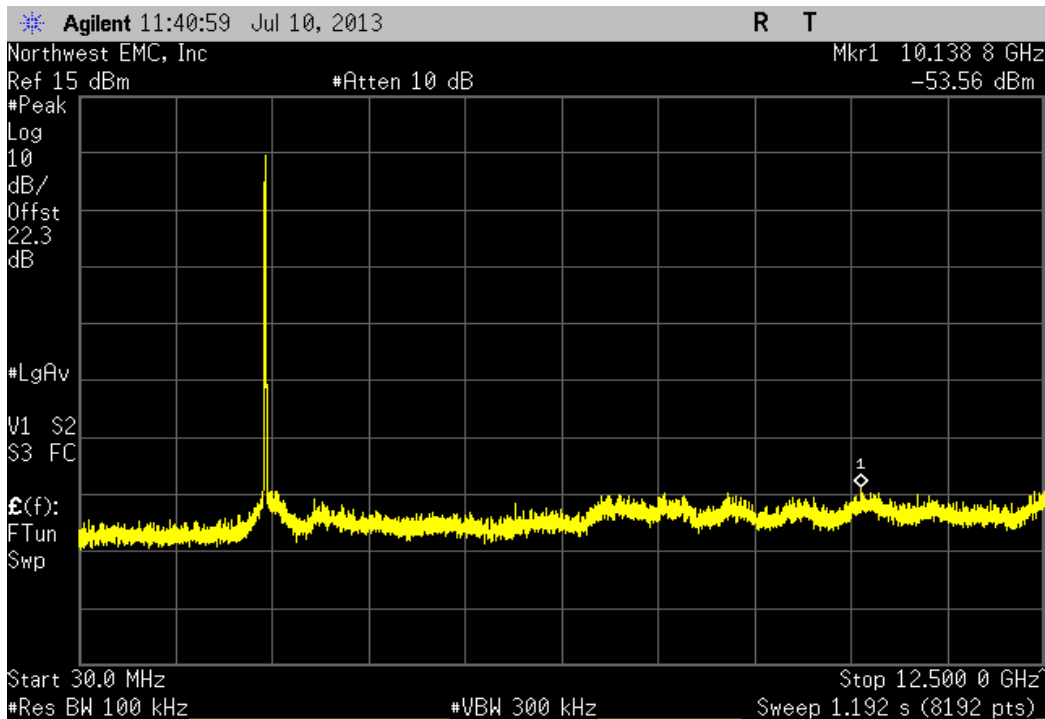


| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz |  |       |       |        |
|--------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency                                                                            |  | Value | Limit | Result |
| Range                                                                                |  |       |       |        |
| Fundamental                                                                          |  | N/A   | N/A   | N/A    |

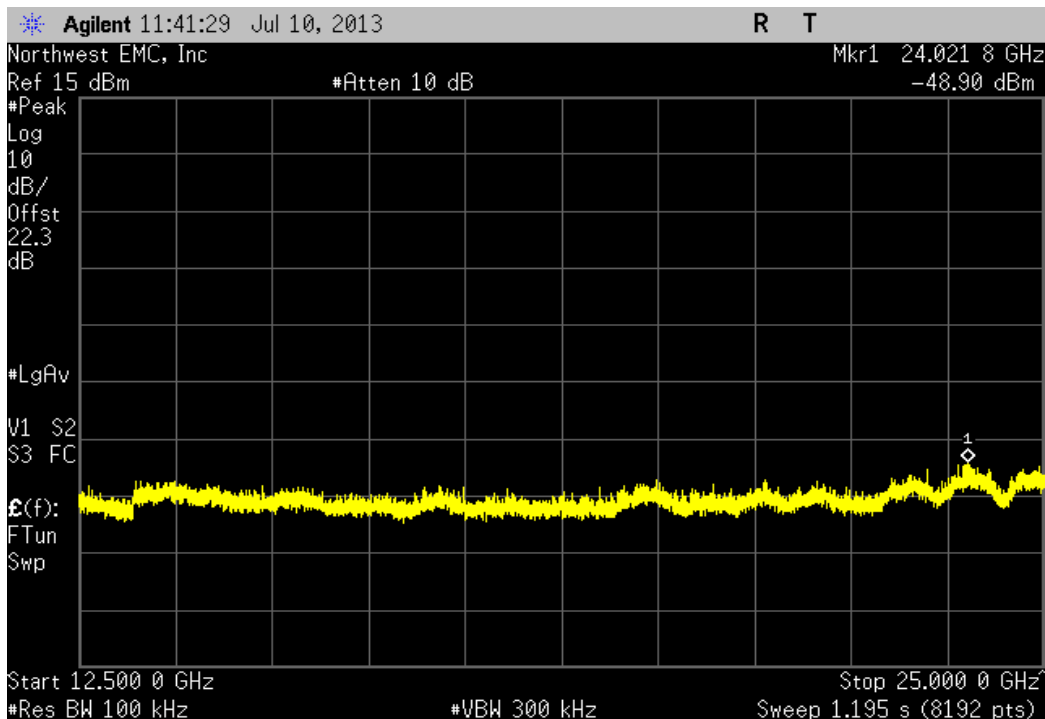




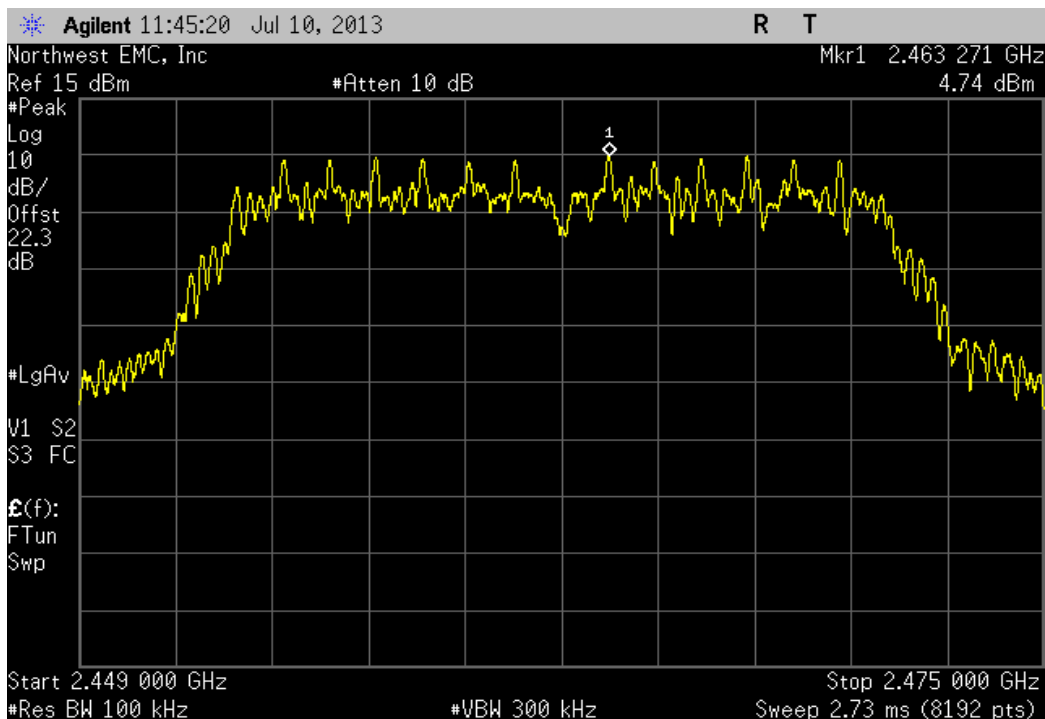
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                    | -58.04 dBc | ≤ -20 dBc | Pass   |  |



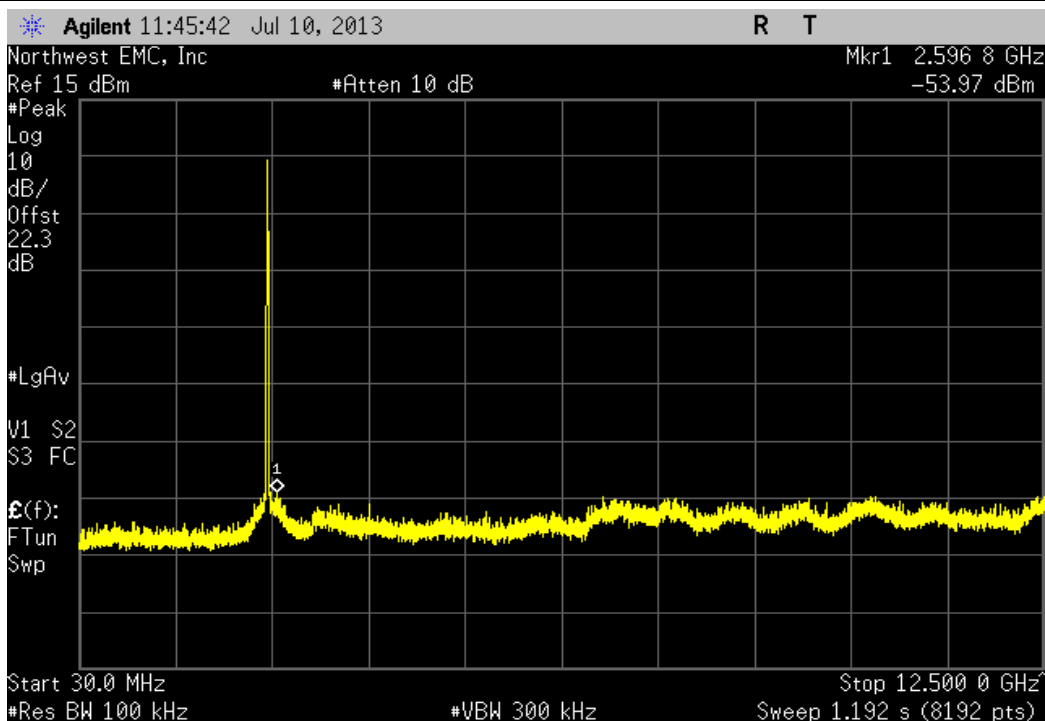
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                    | -53.38 dBc | ≤ -20 dBc | Pass   |  |



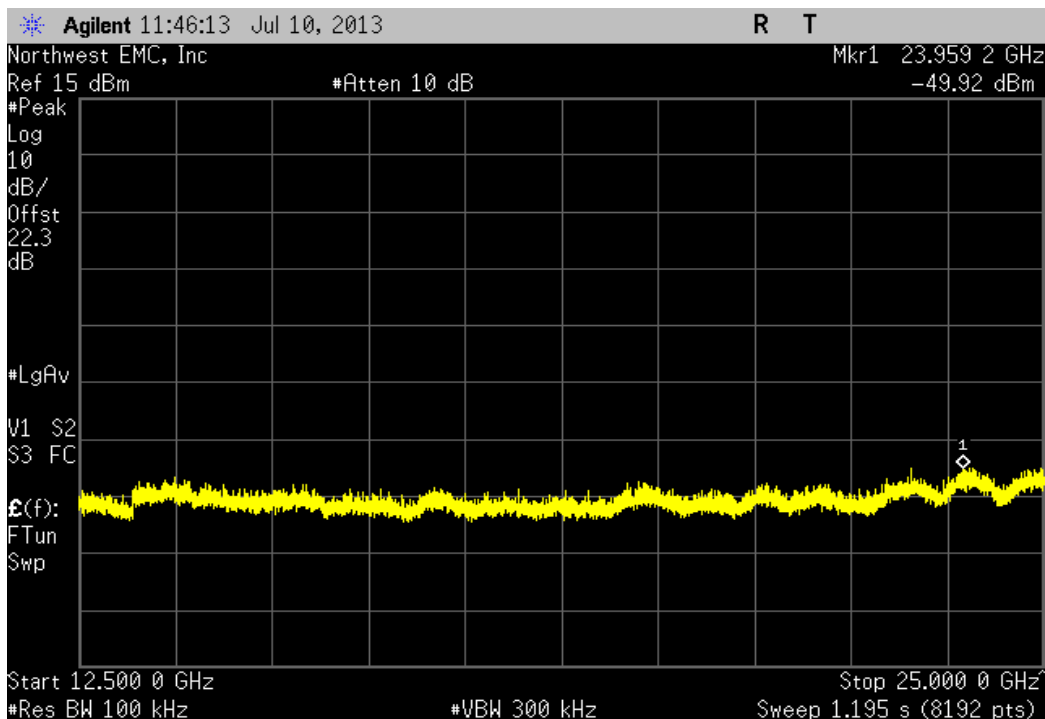
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz |  |  |  |       |       |        |
|----------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                        |  |  |  | Value | Limit | Result |
| Fundamental                                                                            |  |  |  | N/A   | N/A   | N/A    |



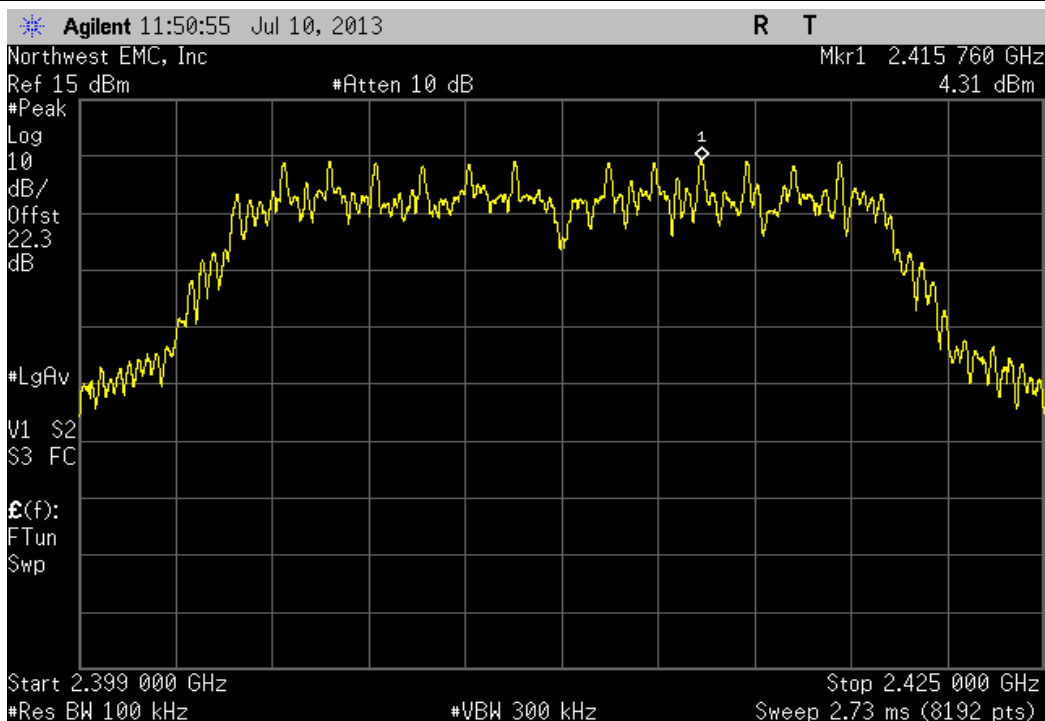
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz |  |  |  |            |           |        |
|----------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                        |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                      |  |  |  | -58.71 dBc | ≤ -20 dBc | Pass   |



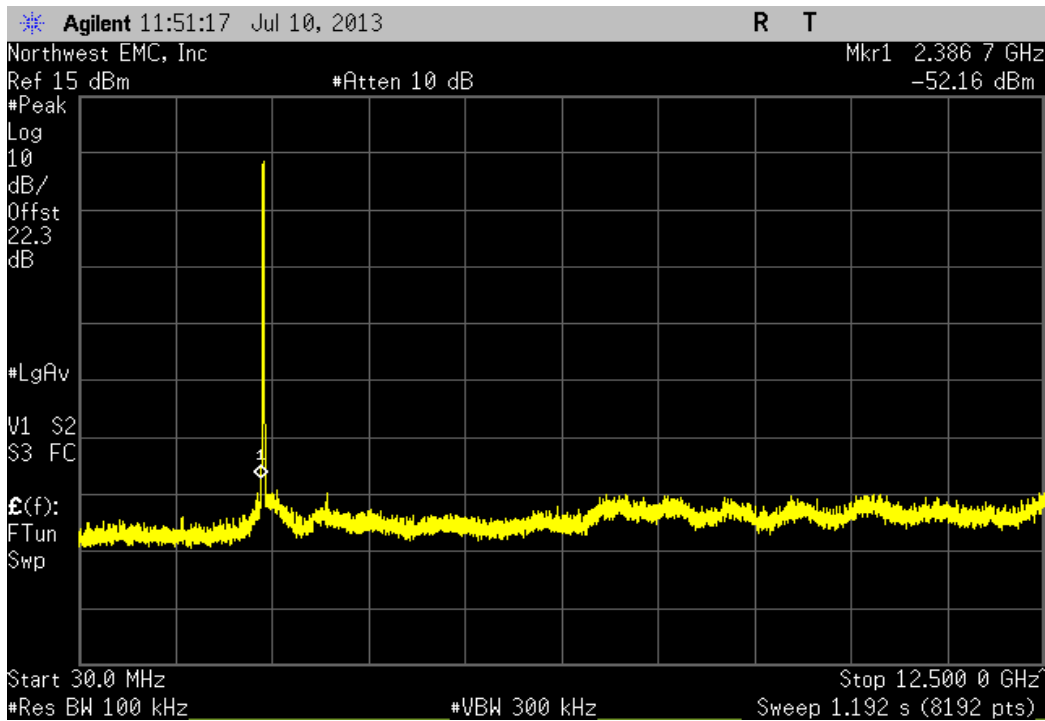
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                      |  | -54.66 dBc | ≤ -20 dBc | Pass   |



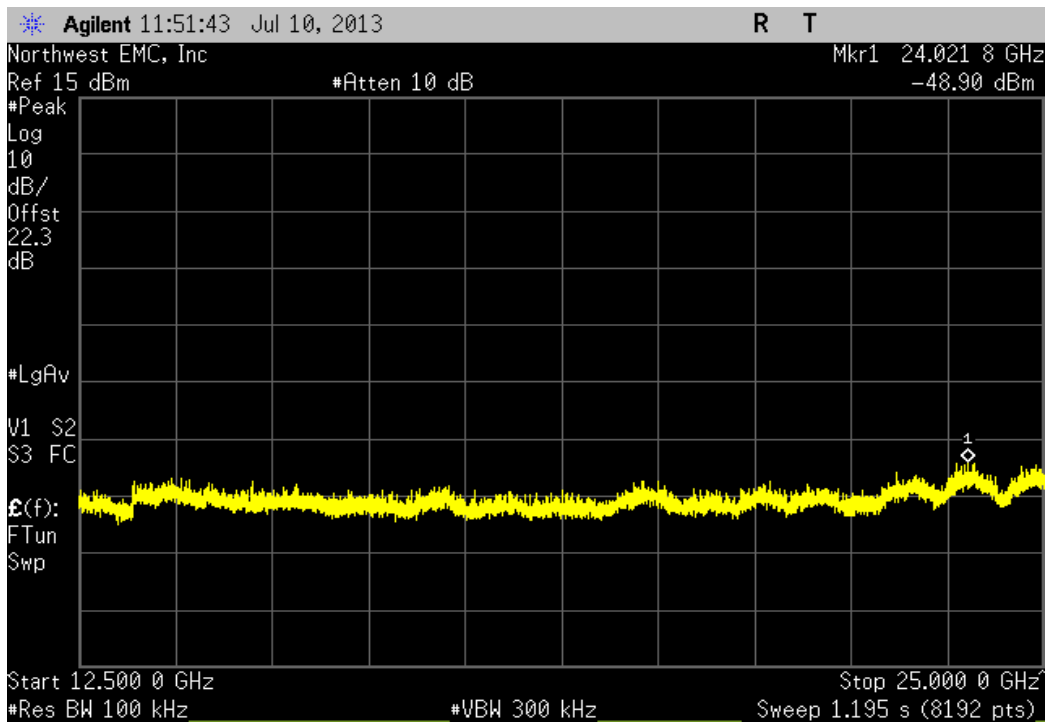
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz |  |       |       |        |
|---------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                       |  | Value | Limit | Result |
| Fundamental                                                                           |  | N/A   | N/A   | N/A    |



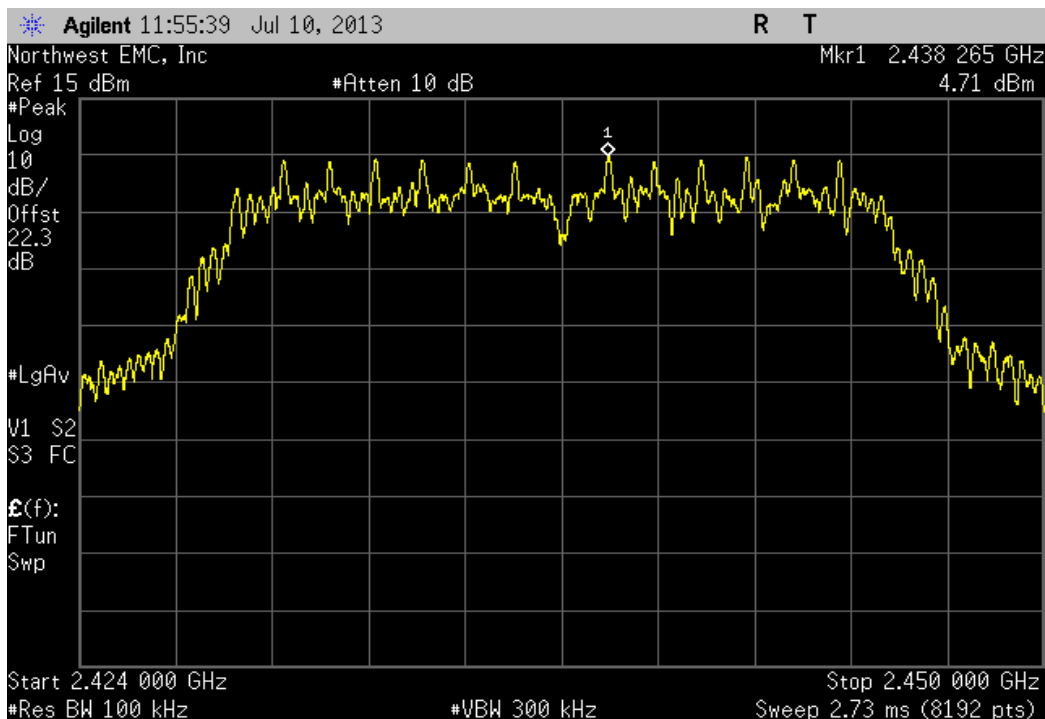
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                     | -56.47 dBc | ≤ -20 dBc | Pass   |  |



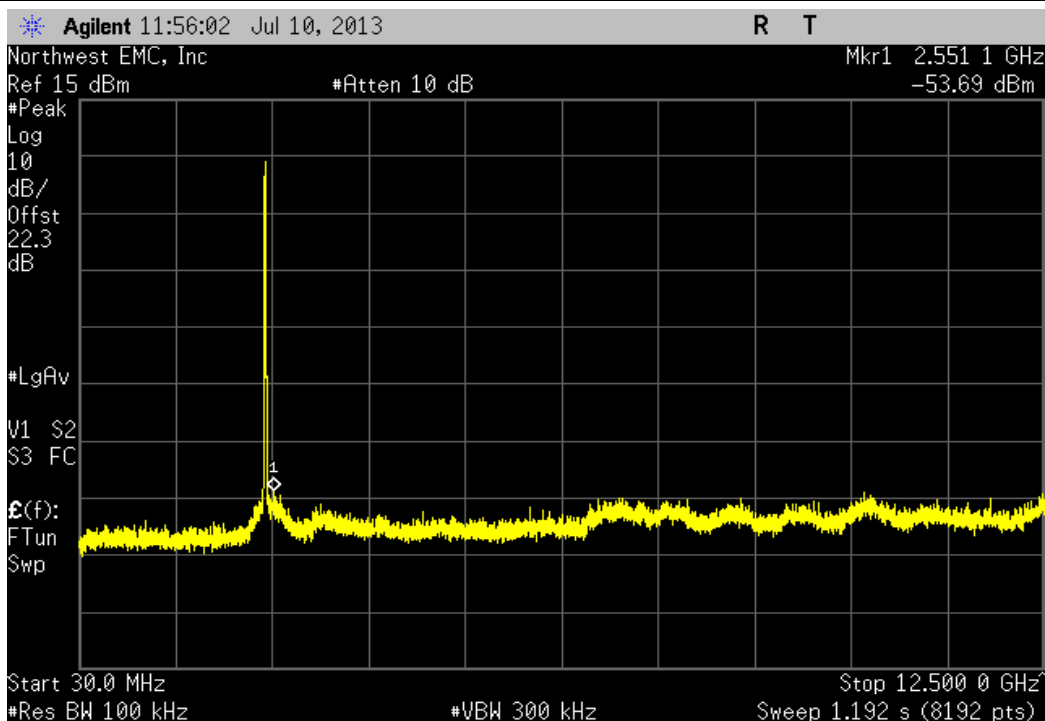
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -53.21 dBc | ≤ -20 dBc | Pass   |  |



| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                       |  |  |  | Value | Limit | Result |
| Fundamental                                                                           |  |  |  | N/A   | N/A   | N/A    |

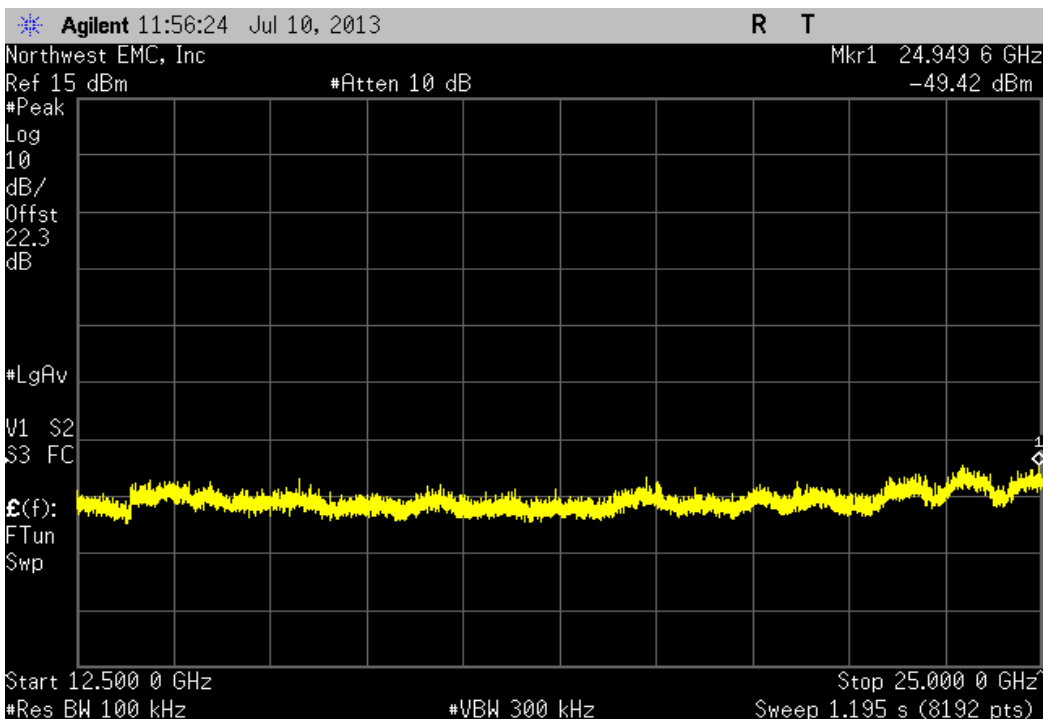


| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz |  |  |  |           |           |        |
|---------------------------------------------------------------------------------------|--|--|--|-----------|-----------|--------|
| Frequency Range                                                                       |  |  |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                     |  |  |  | -58.4 dBc | ≤ -20 dBc | Pass   |



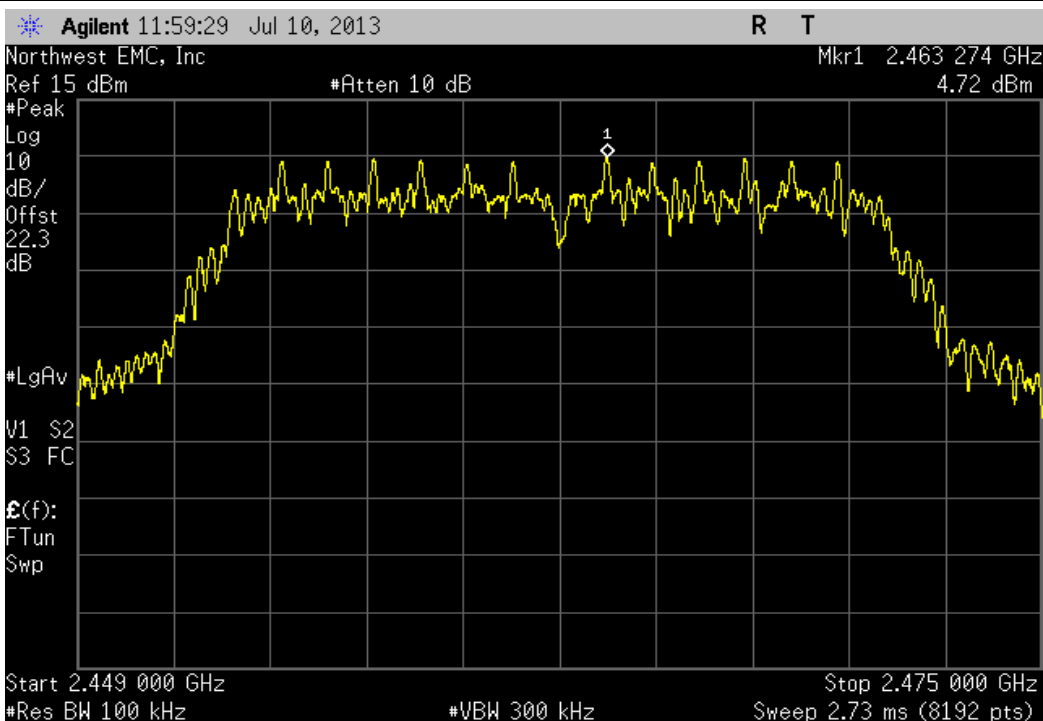
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz

| Frequency Range   | Value      | Limit     | Result |
|-------------------|------------|-----------|--------|
| 12.5 GHz - 25 GHz | -54.13 dBc | ≤ -20 dBc | Pass   |

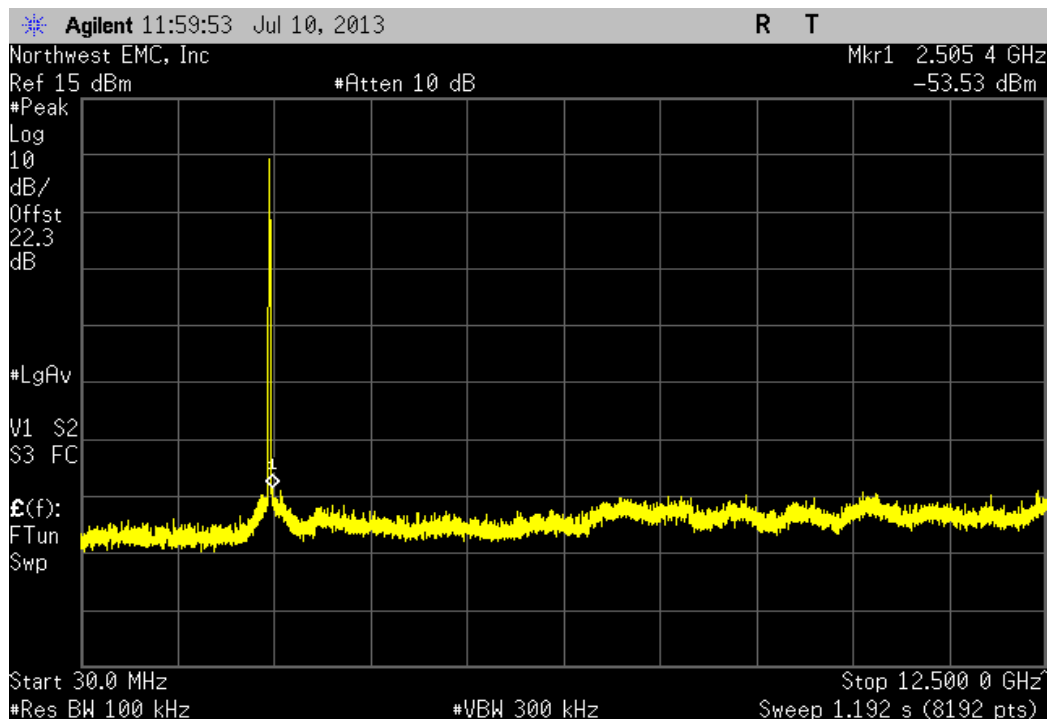


Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz

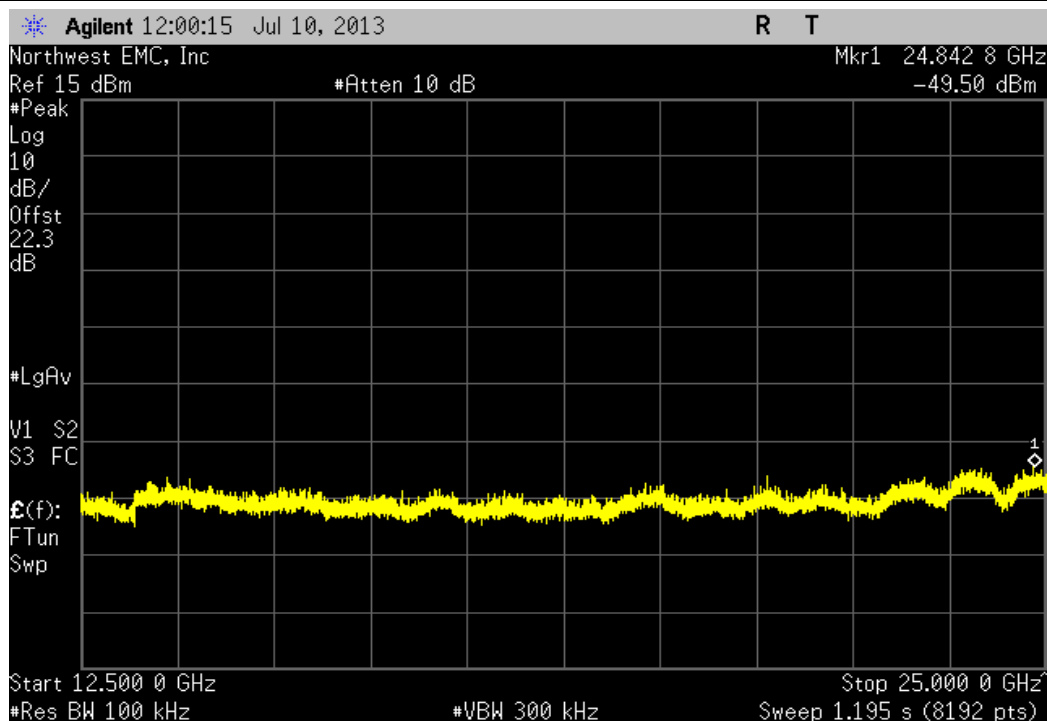
| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |



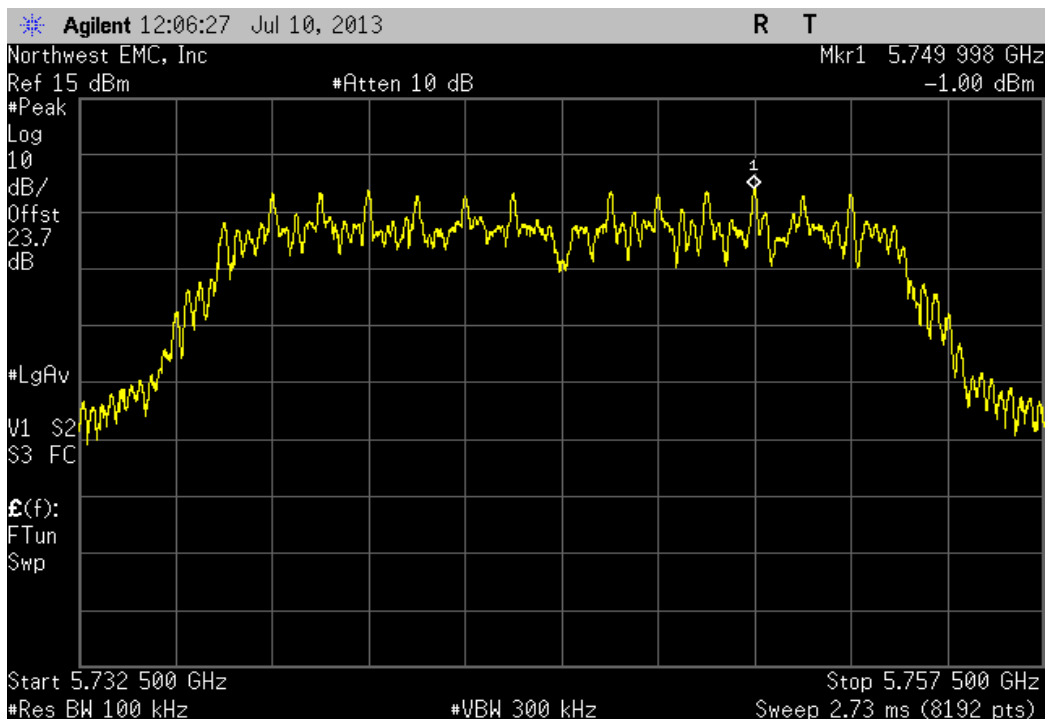
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -58.26 dBc | ≤ -20 dBc | Pass   |  |



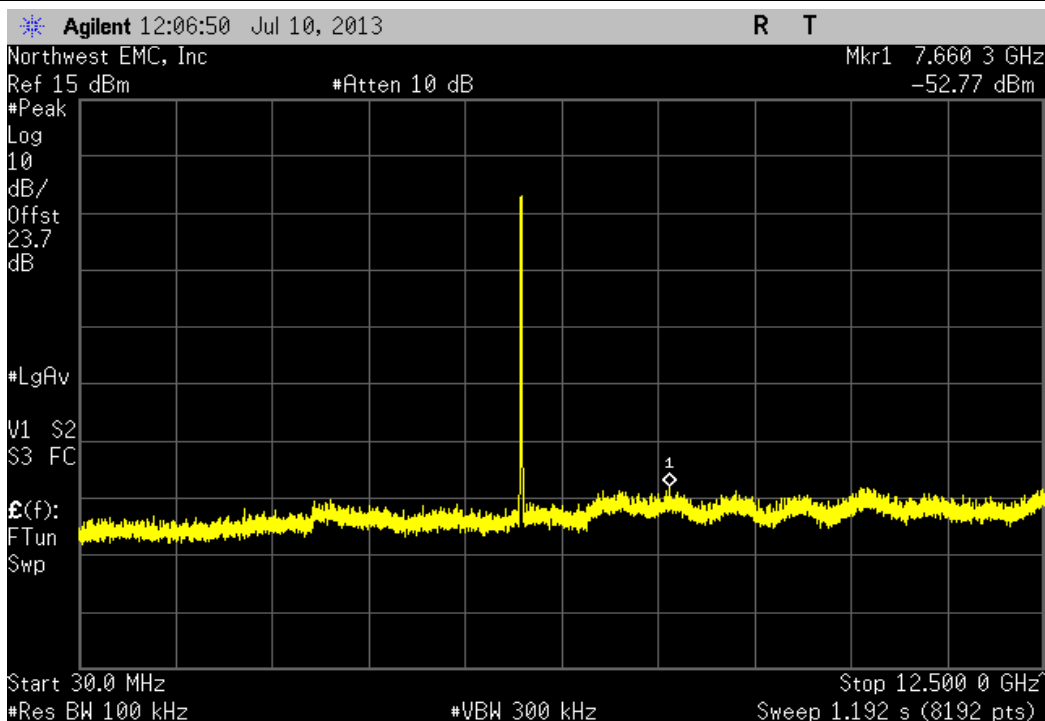
| Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -54.23 dBc | ≤ -20 dBc | Pass   |  |



| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |  |       |       |        |
|--------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                      |  | Value | Limit | Result |
| Fundamental                                                                          |  | N/A   | N/A   | N/A    |

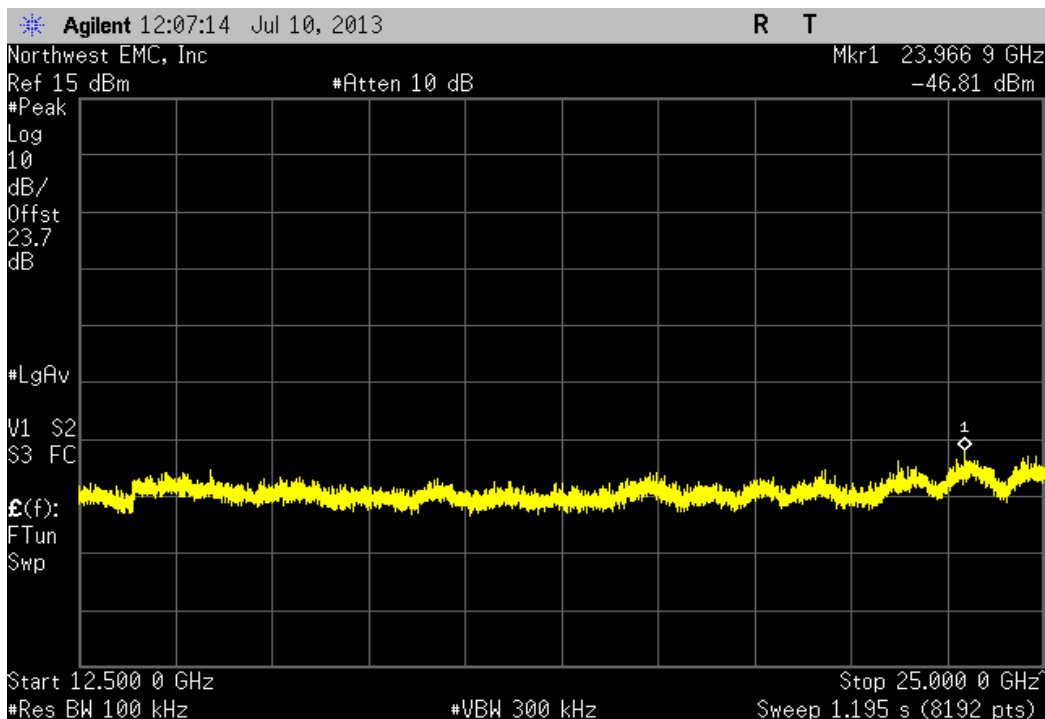


| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                    |  | -51.77 dBc | ≤ -20 dBc | Pass   |

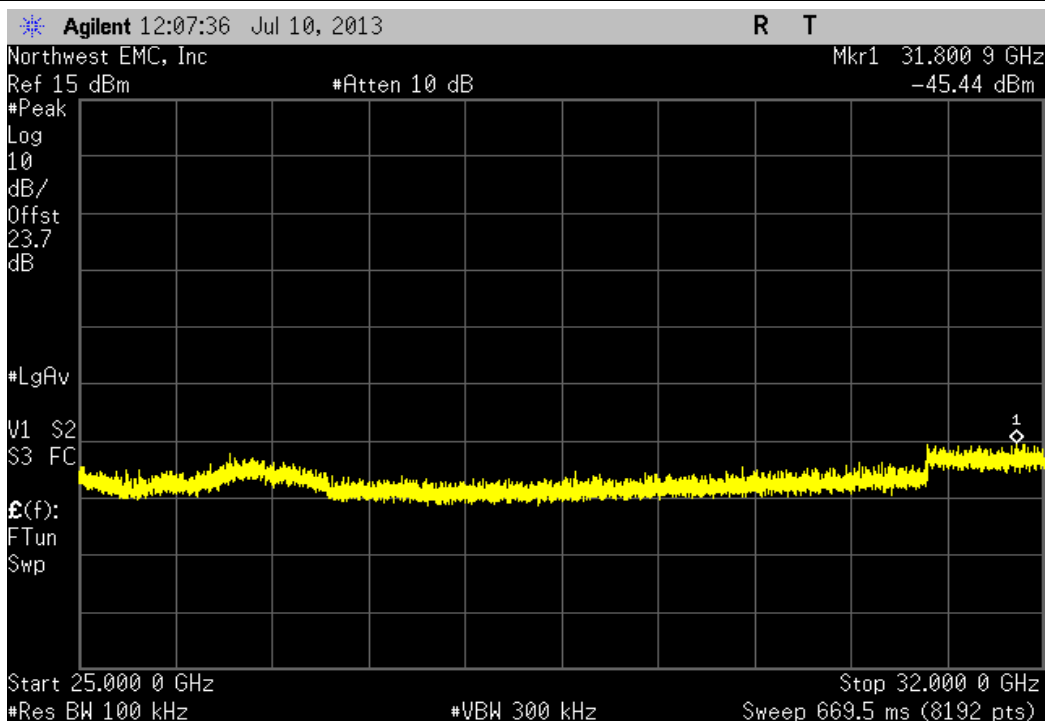




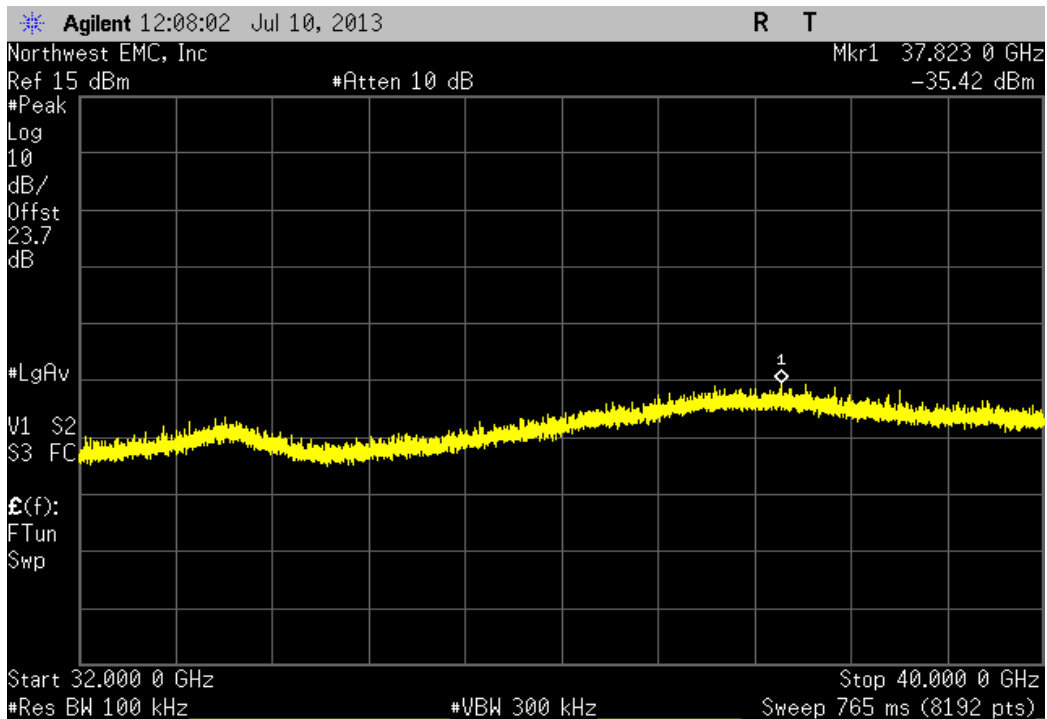
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                    | -45.81 dBc | ≤ -20 dBc | Pass   |  |



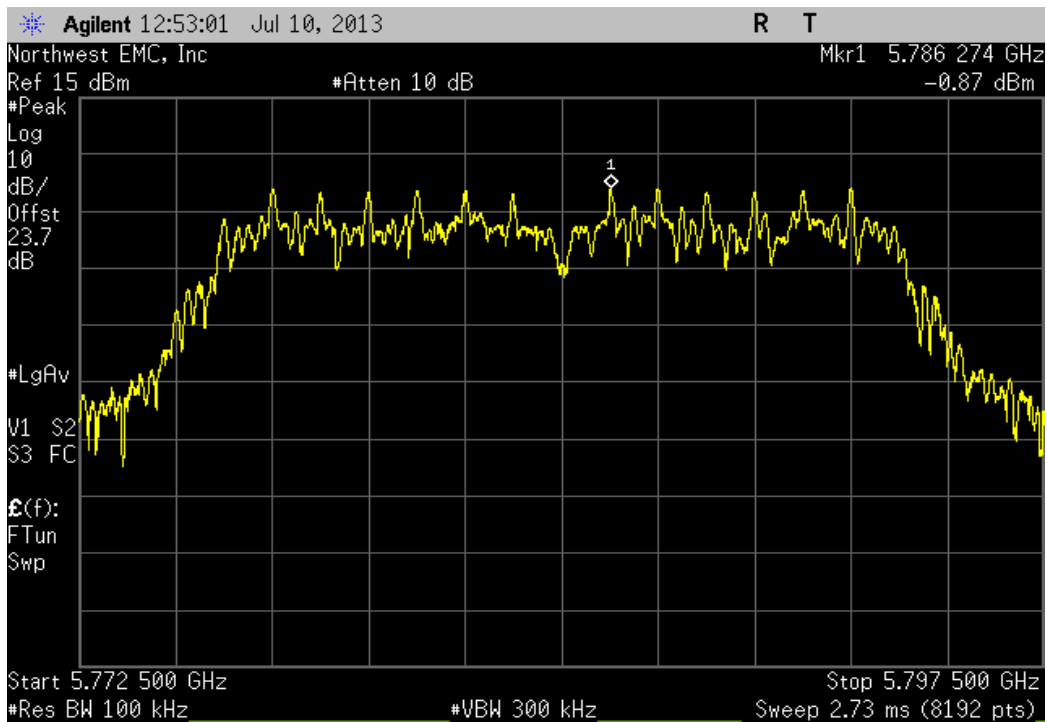
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                      | -44.44 dBc | ≤ -20 dBc | Pass   |  |



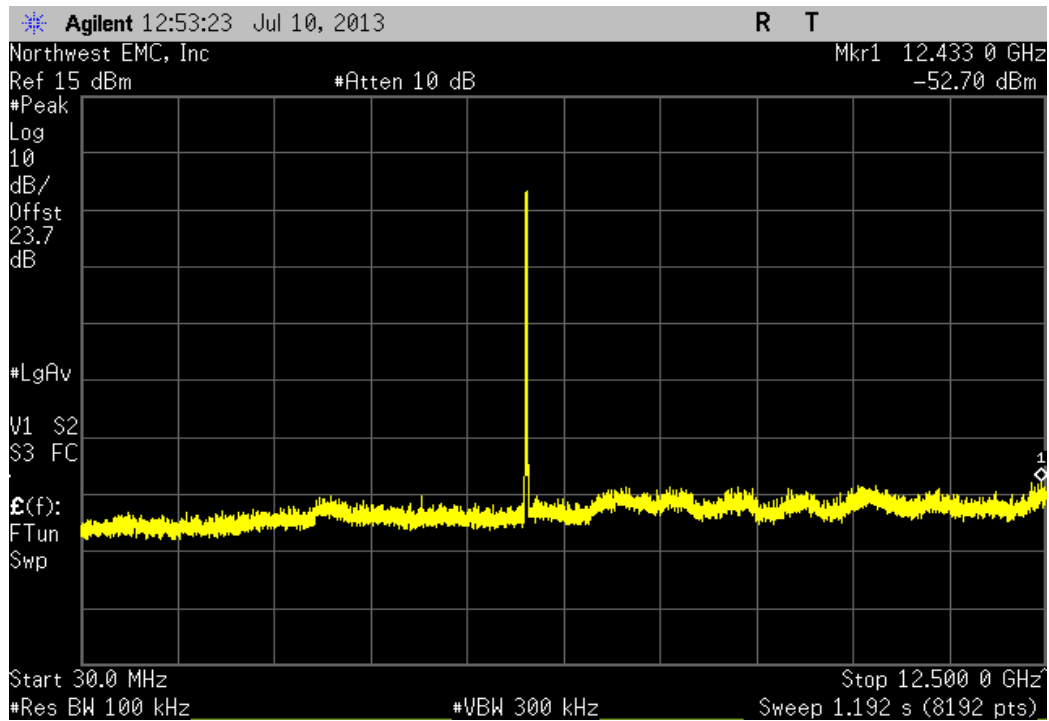
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                      |  | -34.42 dBc | ≤ -20 dBc | Pass   |



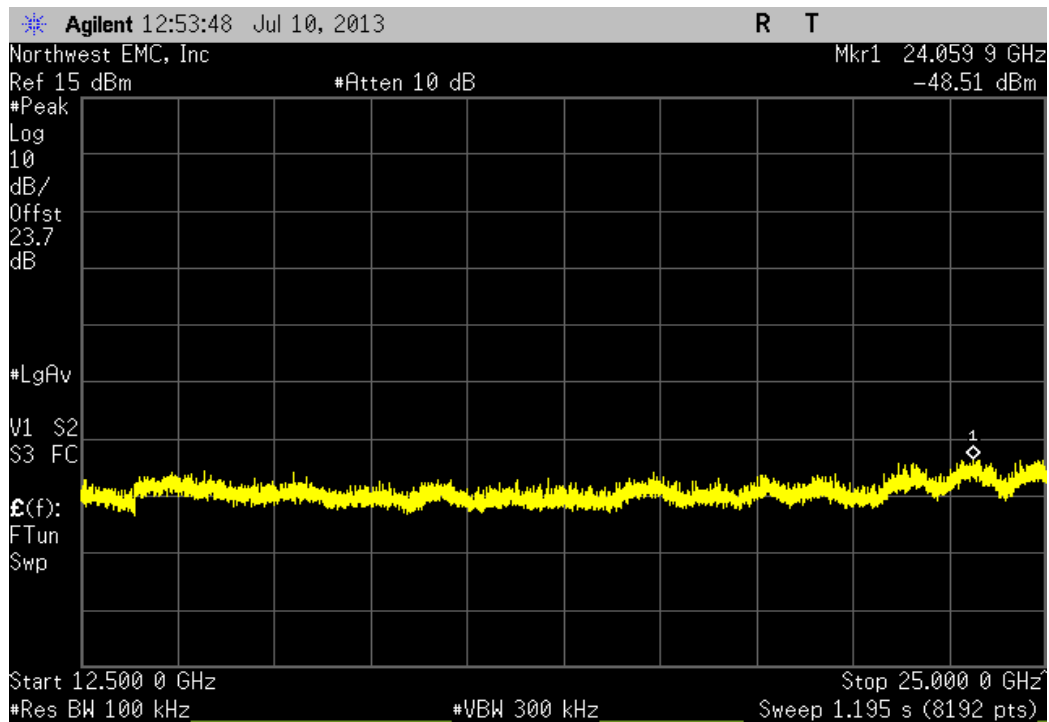
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |  |       |       |        |
|--------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                      |  | Value | Limit | Result |
| Fundamental                                                                          |  | N/A   | N/A   | N/A    |



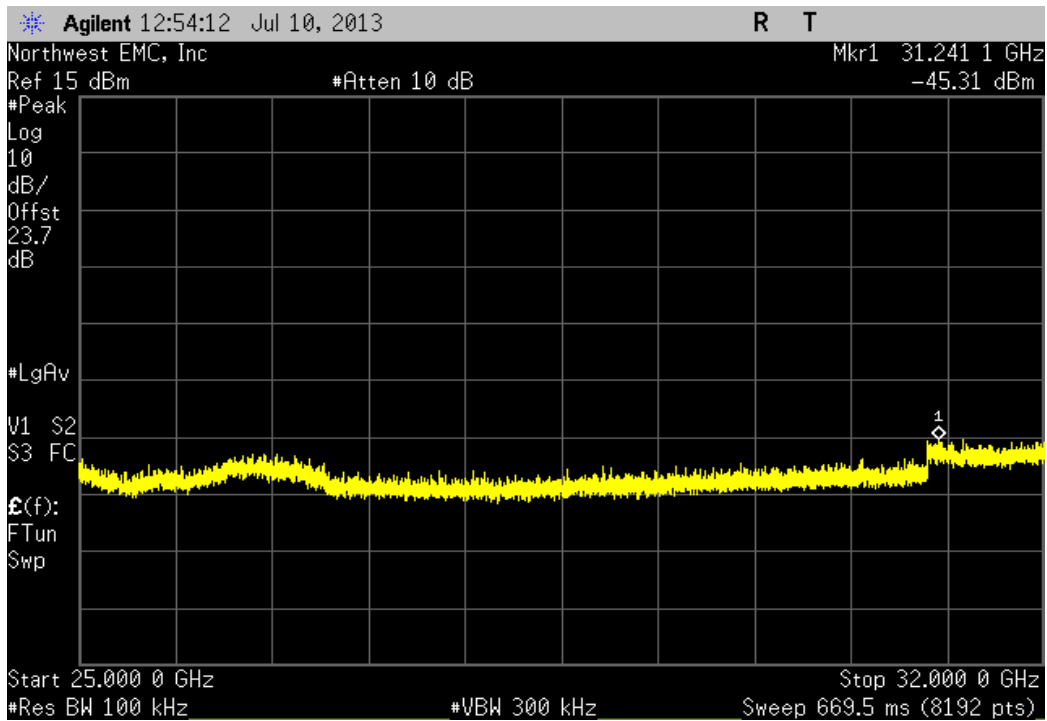
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                    | -51.84 dBc | ≤ -20 dBc | Pass   |  |



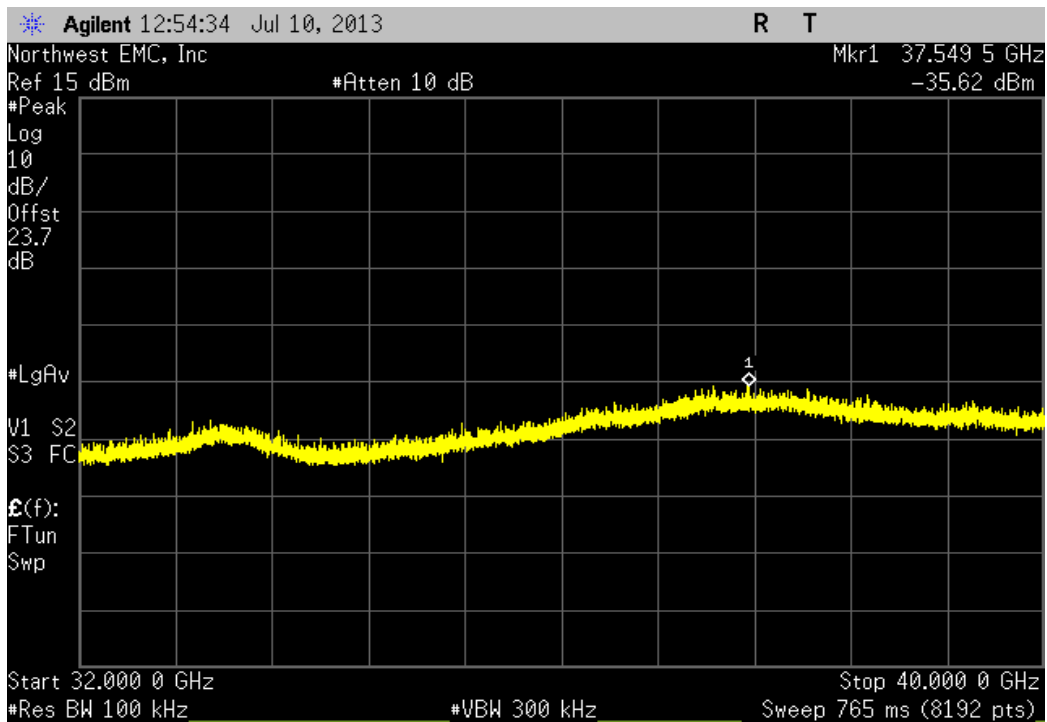
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                      | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                    | -47.65 dBc | ≤ -20 dBc | Pass   |  |



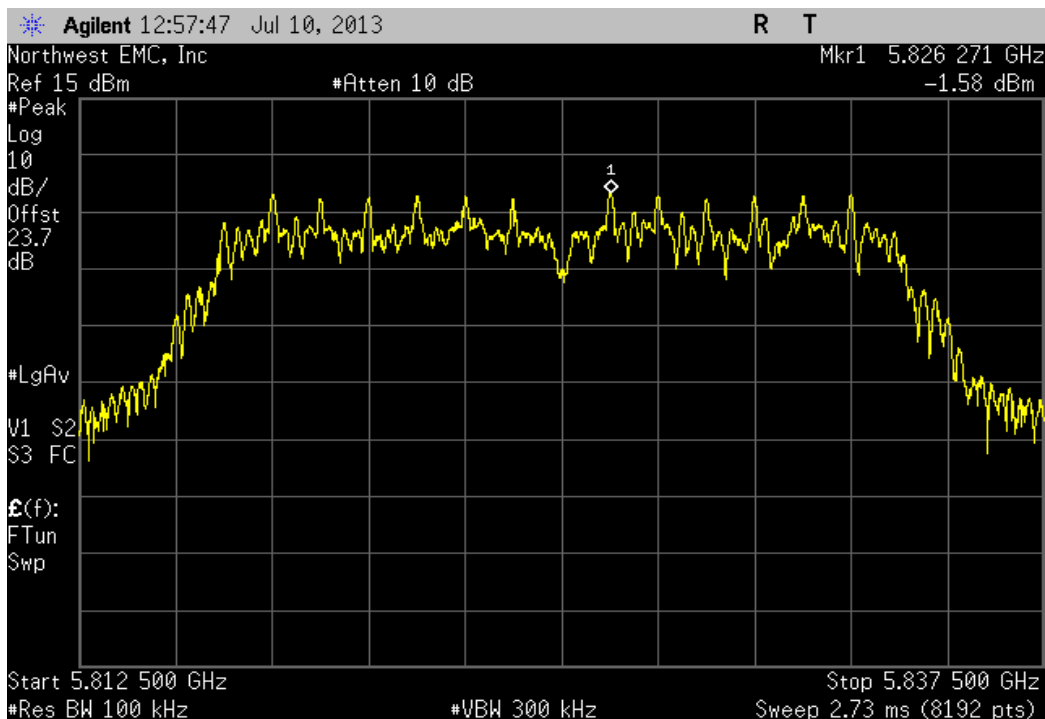
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                      |  | -44.45 dBc | ≤ -20 dBc | Pass   |



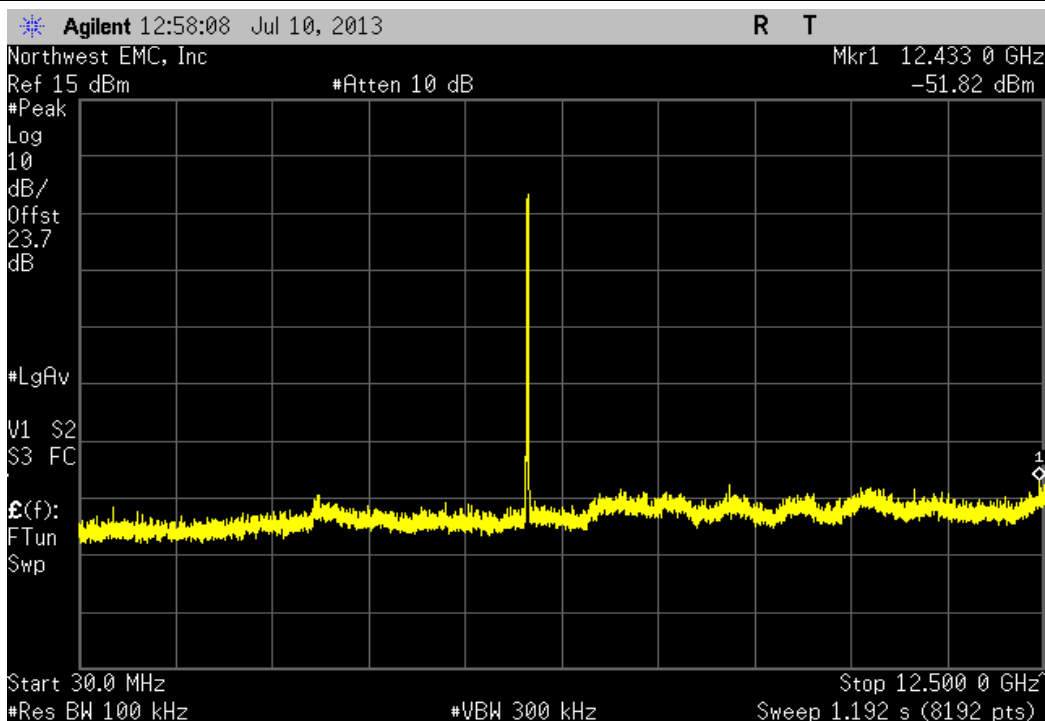
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                      |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                      |  | -34.76 dBc | ≤ -20 dBc | Pass   |



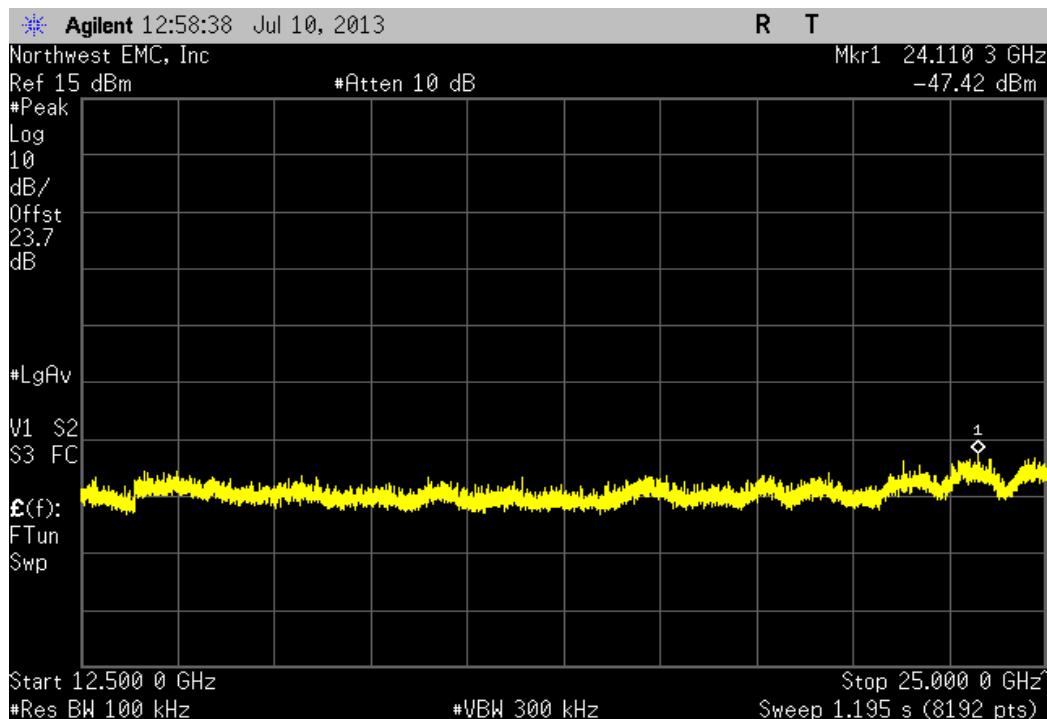
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                       |  |  |  | Value | Limit | Result |
| Fundamental                                                                           |  |  |  | N/A   | N/A   | N/A    |



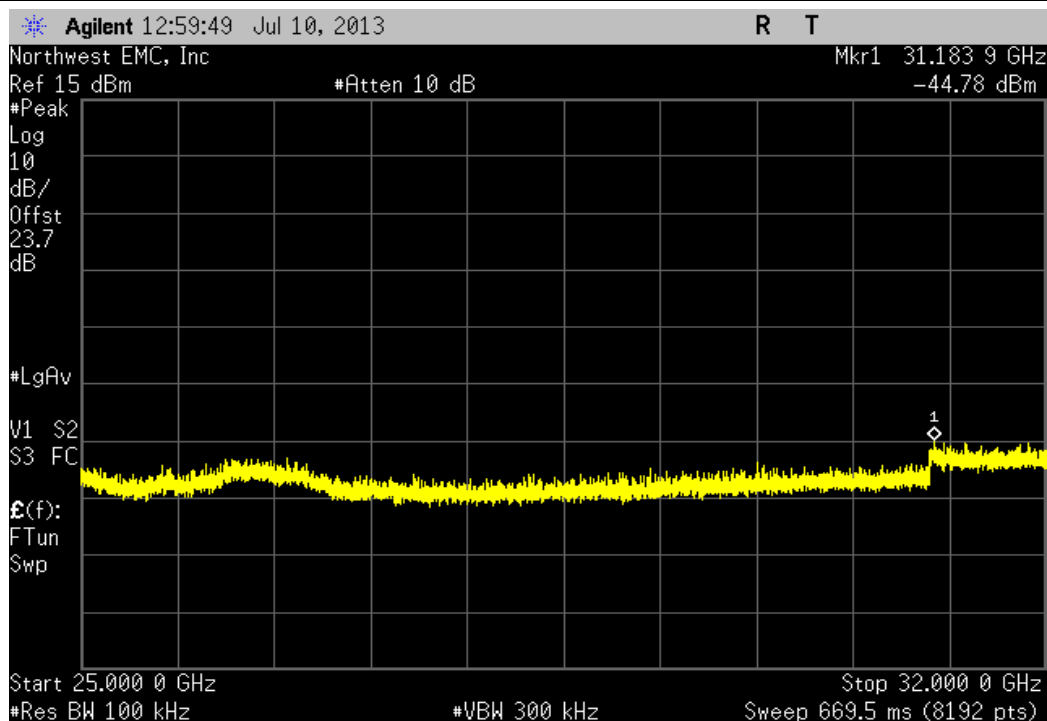
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |  |  |  |            |           |        |
|---------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                       |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                     |  |  |  | -50.24 dBc | ≤ -20 dBc | Pass   |



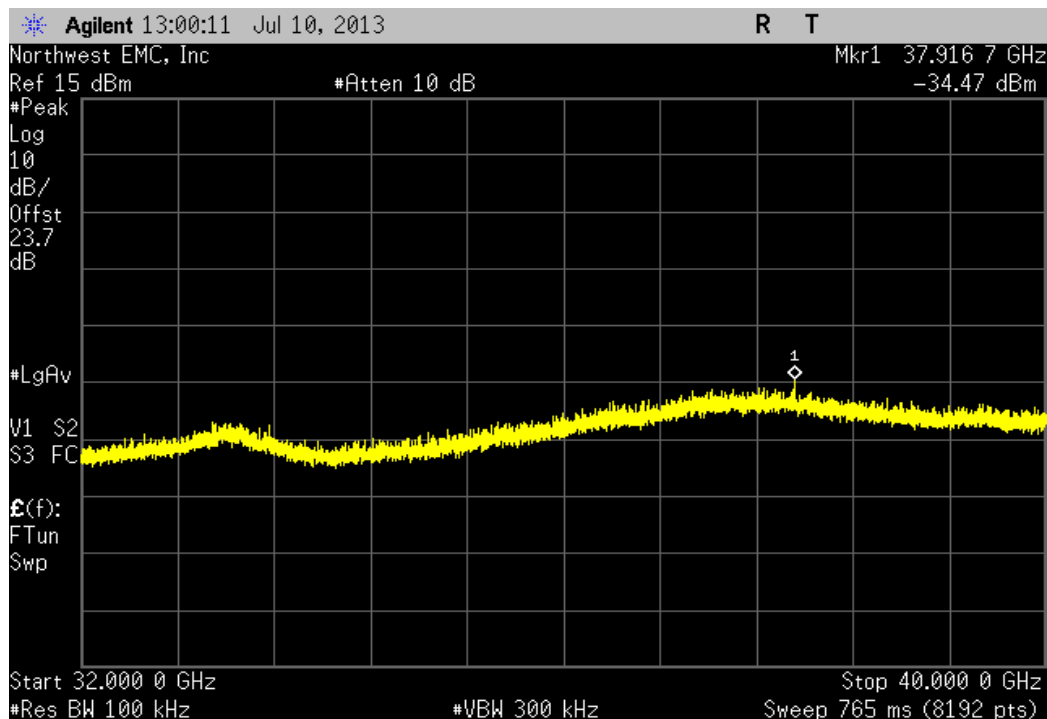
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -45.84 dBc | ≤ -20 dBc | Pass   |  |



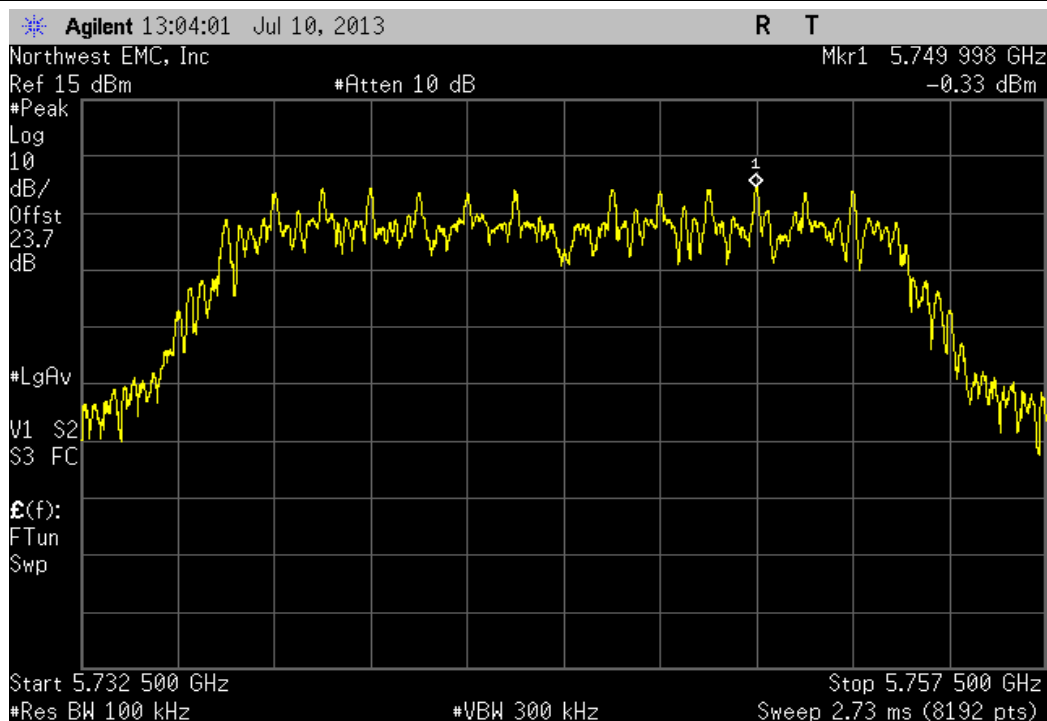
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |           |           |        |  |
|---------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                       | Value     | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                       | -43.2 dBc | ≤ -20 dBc | Pass   |  |



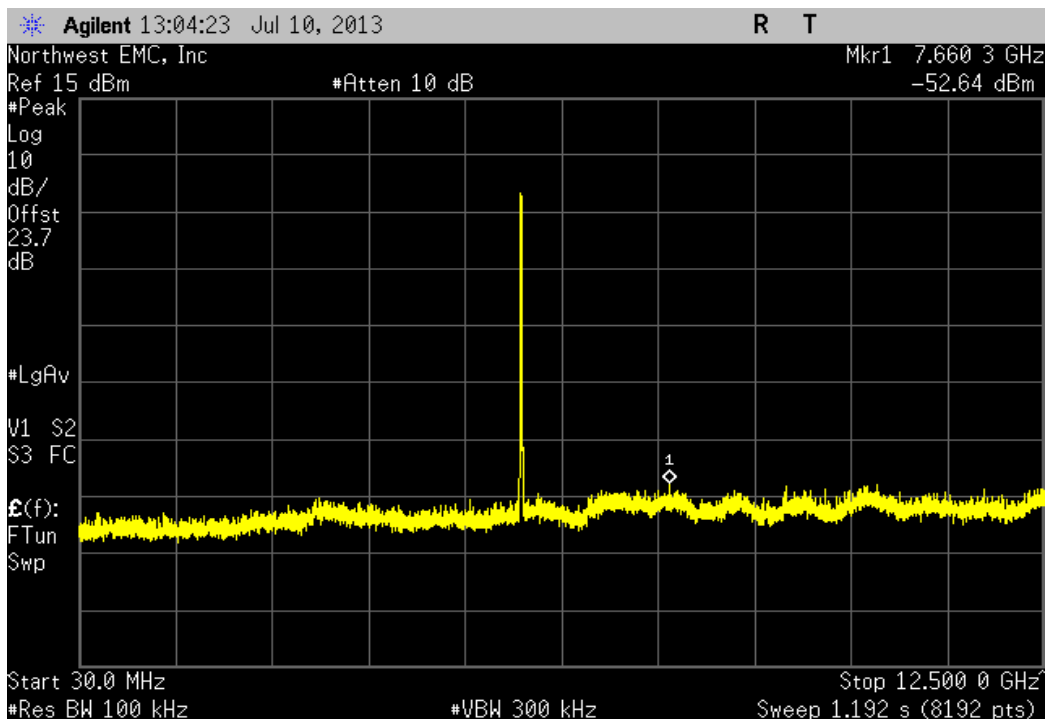
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz |  |  |            |           |        |  |
|---------------------------------------------------------------------------------------|--|--|------------|-----------|--------|--|
| Frequency Range                                                                       |  |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                       |  |  | -32.89 dBc | ≤ -20 dBc | Pass   |  |



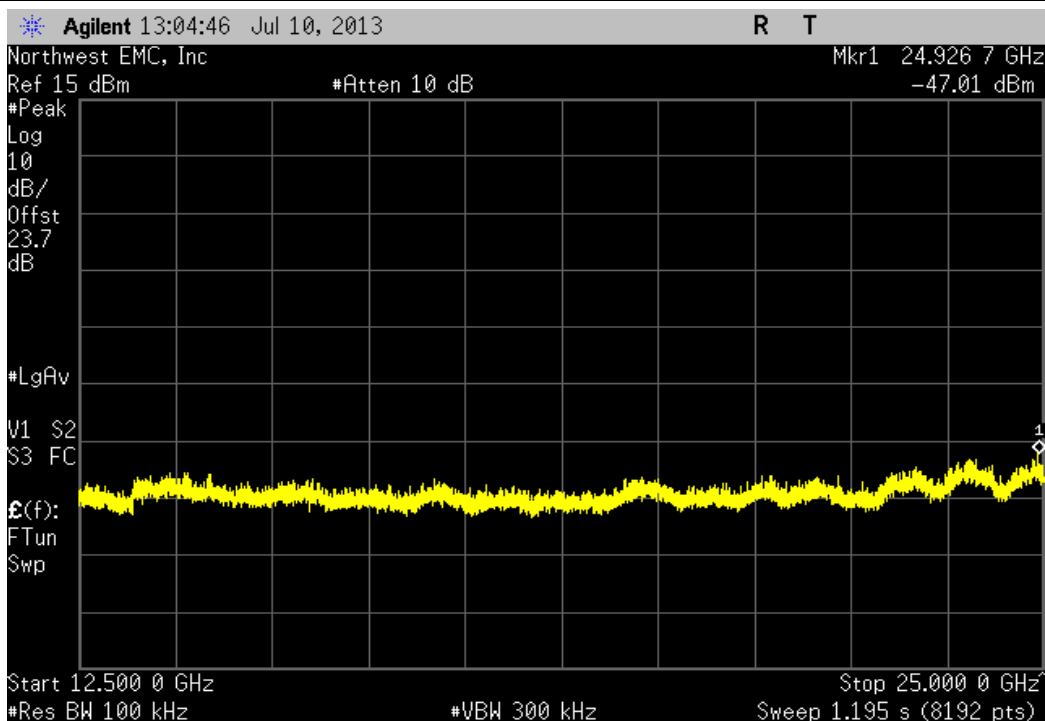
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |  |  |       |       |        |  |
|---------------------------------------------------------------------------------------|--|--|-------|-------|--------|--|
| Frequency Range                                                                       |  |  | Value | Limit | Result |  |
| Fundamental                                                                           |  |  | N/A   | N/A   | N/A    |  |



| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                     | -52.31 dBc | ≤ -20 dBc | Pass   |  |

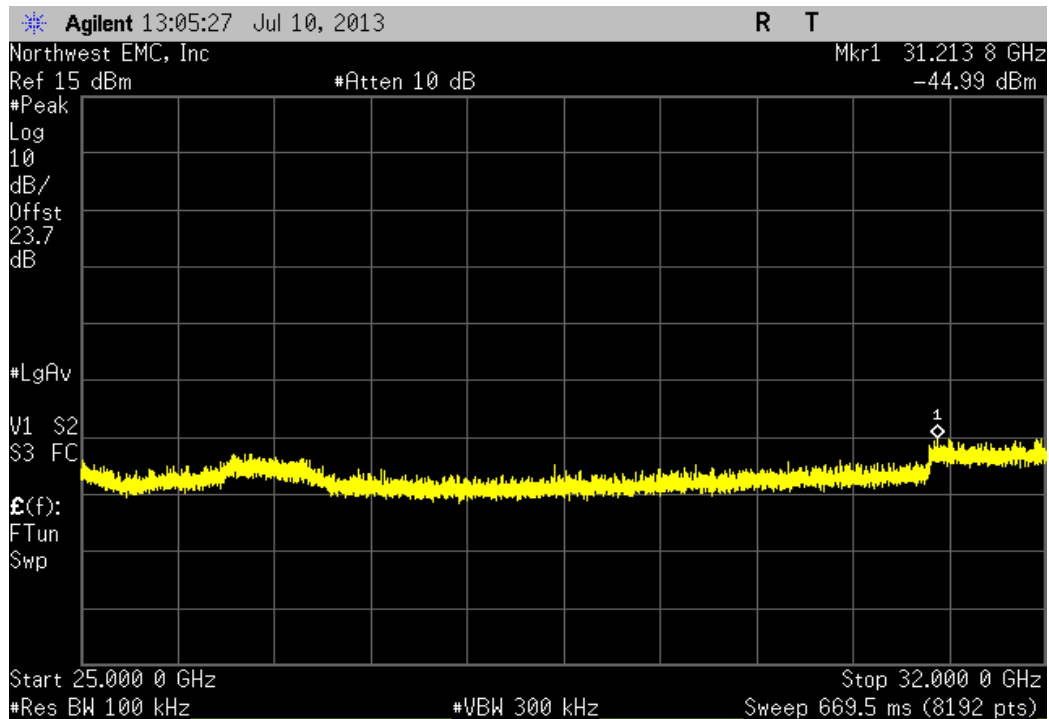


| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -46.68 dBc | ≤ -20 dBc | Pass   |  |

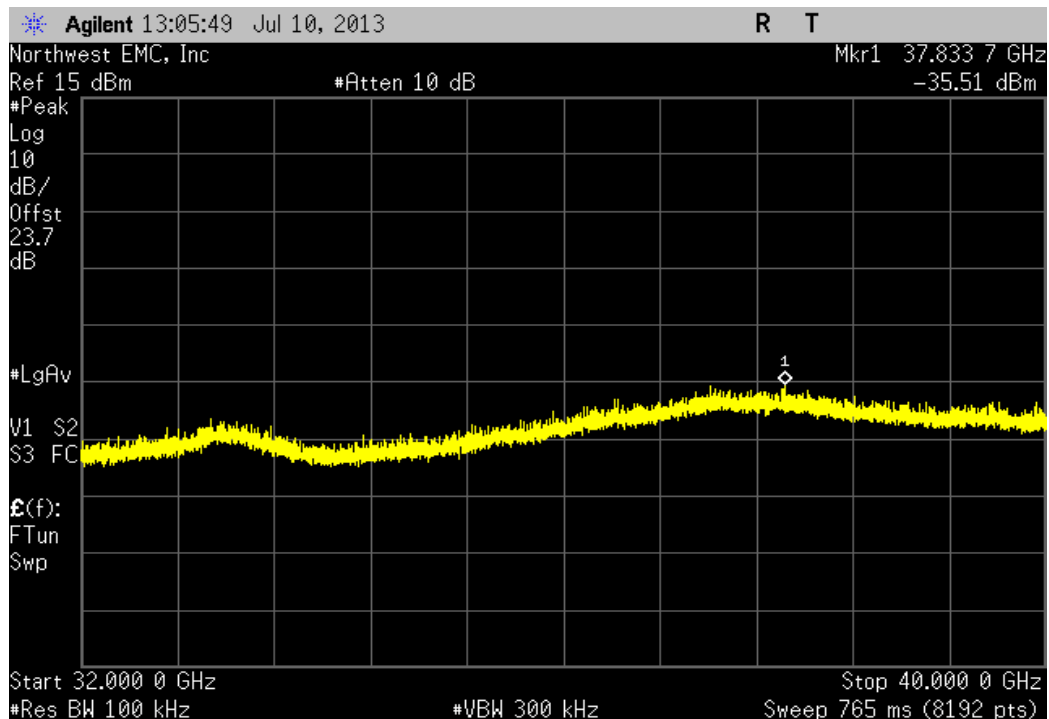




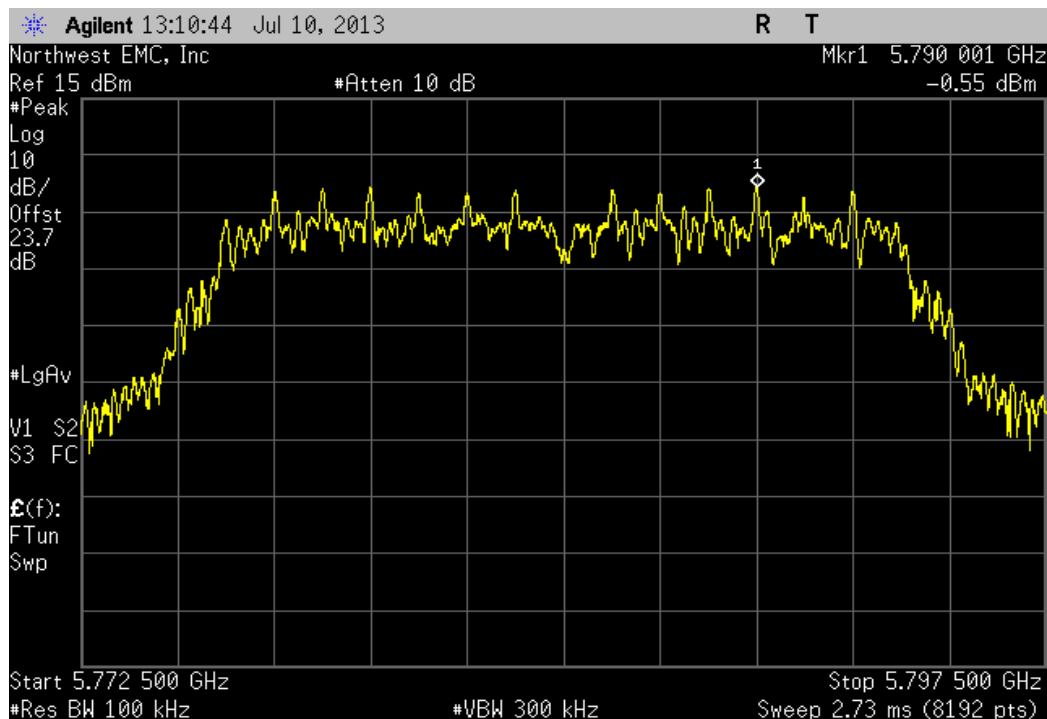
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |  |            |           |        |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                       |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                       |  | -44.66 dBc | ≤ -20 dBc | Pass   |



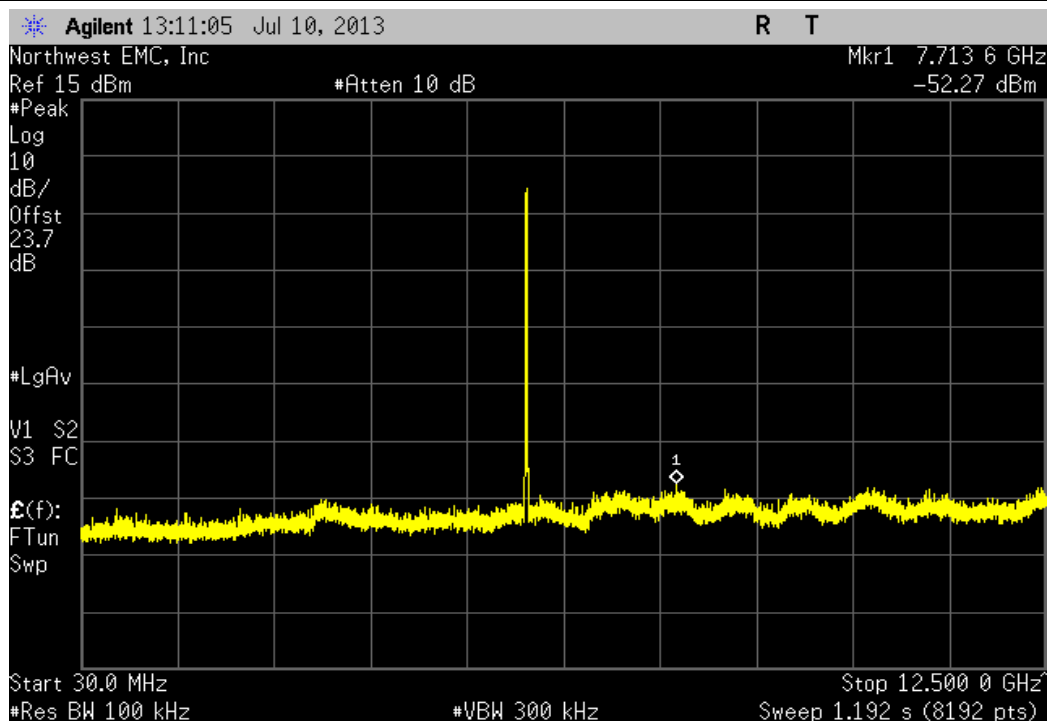
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz |  |            |           |        |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                       |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                       |  | -35.18 dBc | ≤ -20 dBc | Pass   |



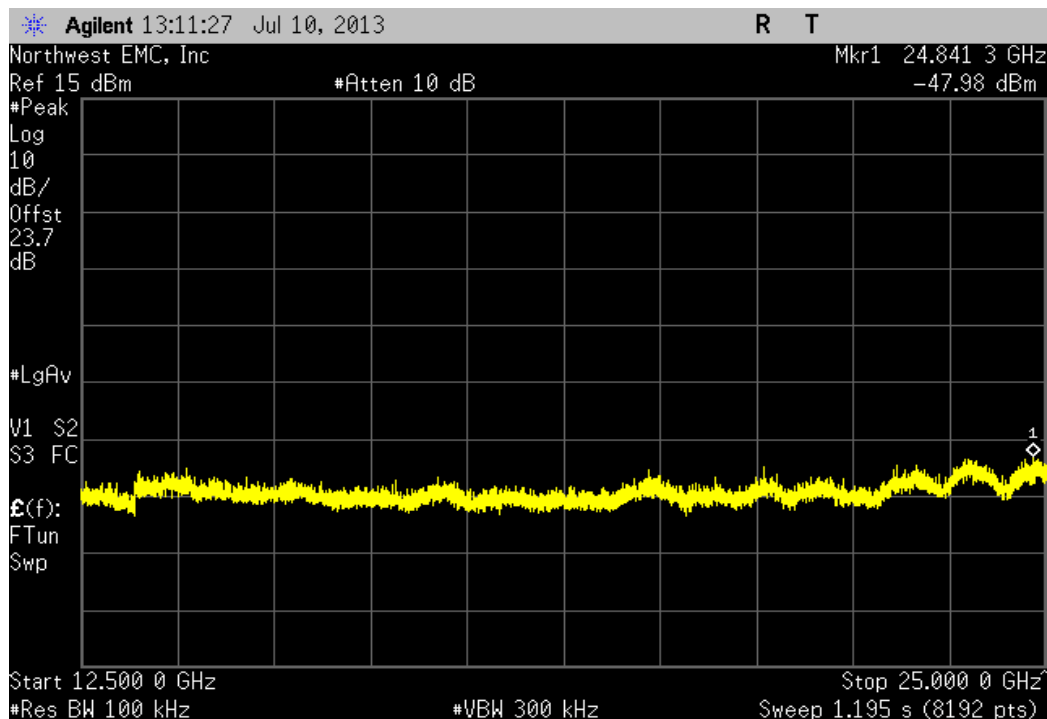
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |       |       |        |
|---------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                       |  | Value | Limit | Result |
| Fundamental                                                                           |  | N/A   | N/A   | N/A    |



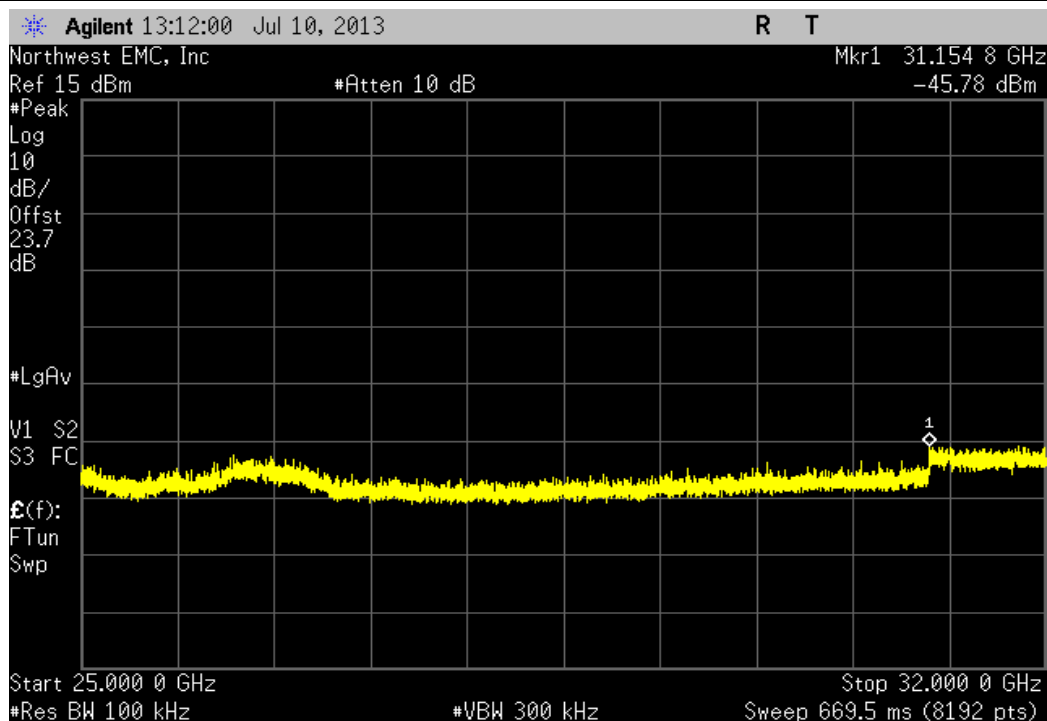
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |            |           |        |
|---------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                       |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                     |  | -51.72 dBc | ≤ -20 dBc | Pass   |



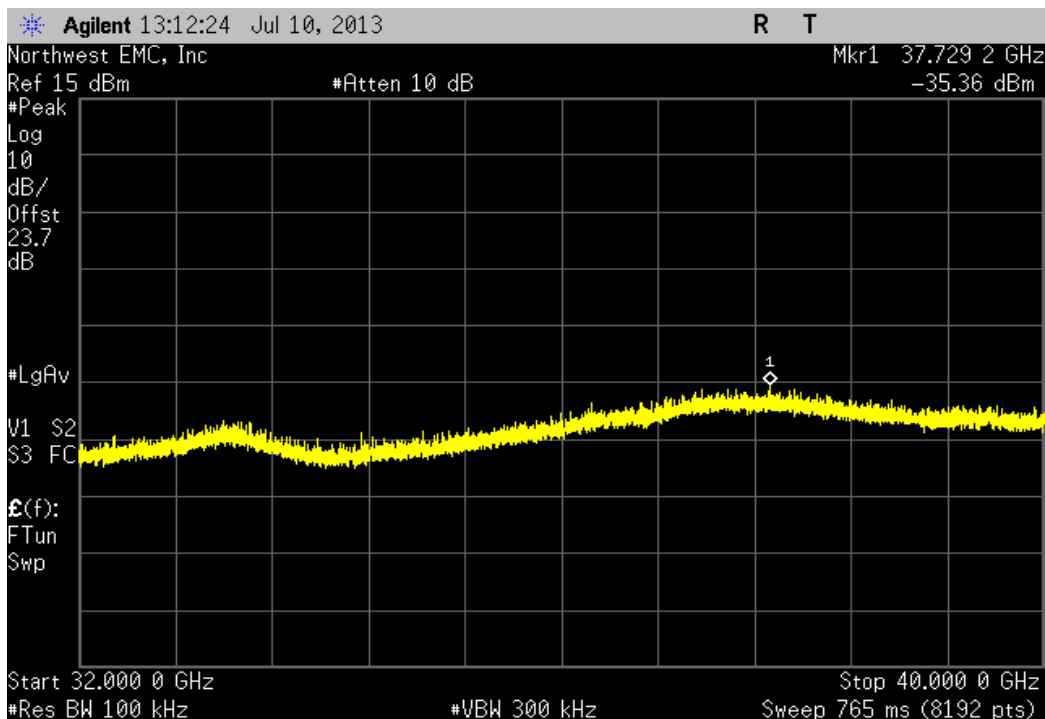
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                     | -47.43 dBc | ≤ -20 dBc | Pass   |  |



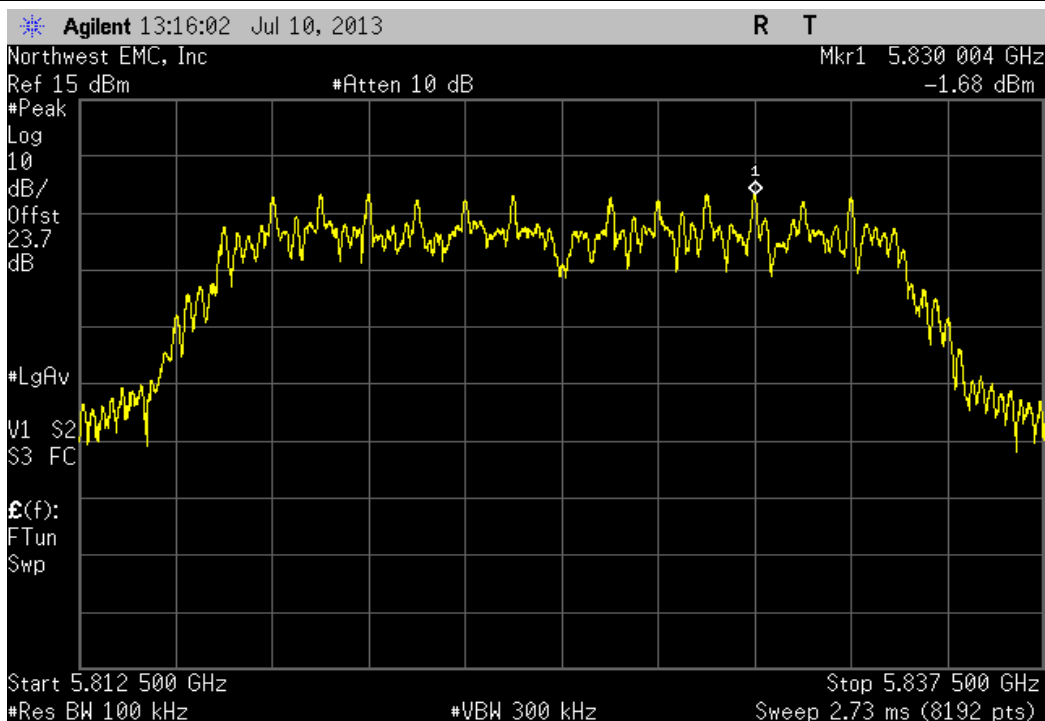
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |            |           |        |  |
|---------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                       | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                       | -45.23 dBc | ≤ -20 dBc | Pass   |  |



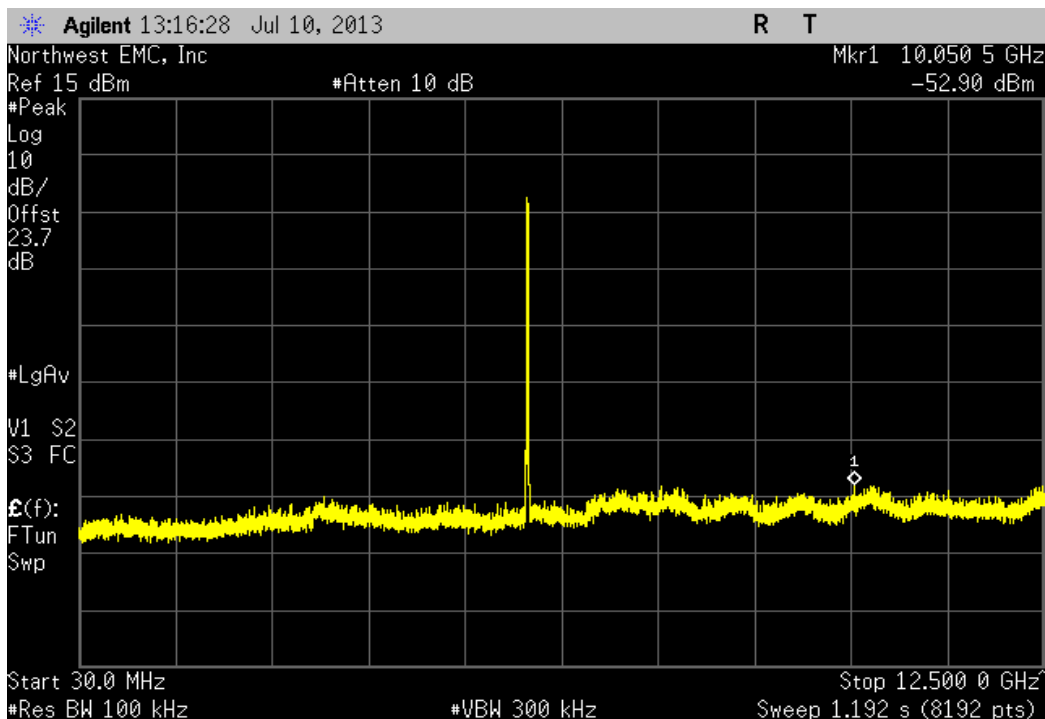
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz |  |  |            |           |        |  |
|---------------------------------------------------------------------------------------|--|--|------------|-----------|--------|--|
| Frequency Range                                                                       |  |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                       |  |  | -34.81 dBc | ≤ -20 dBc | Pass   |  |



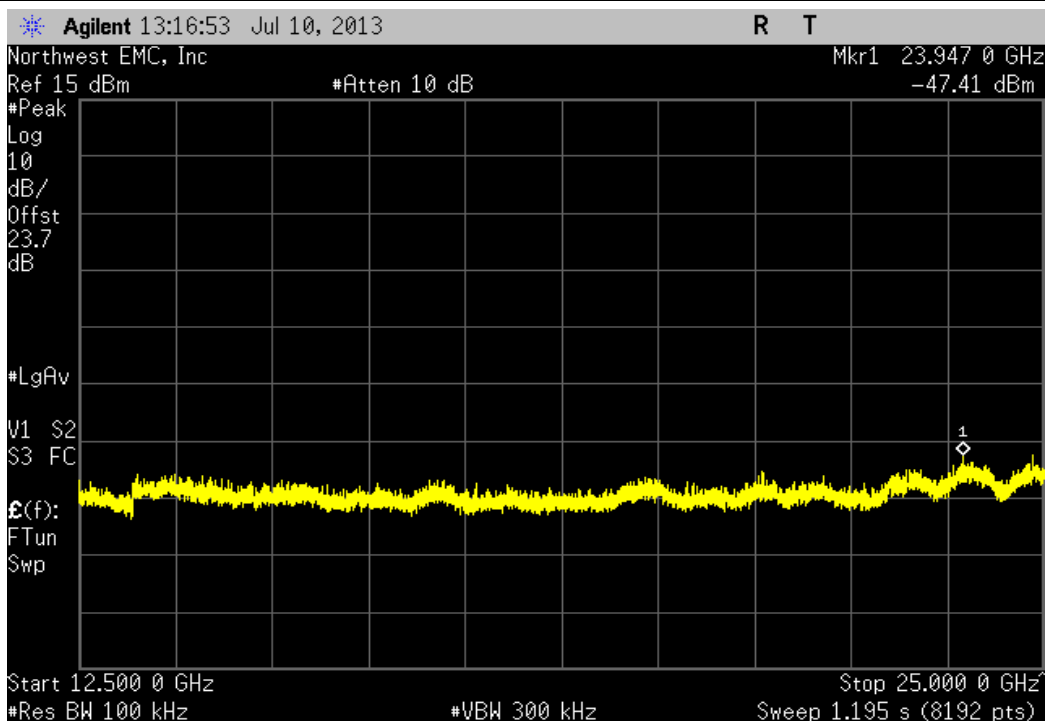
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |  |  |       |       |        |  |
|----------------------------------------------------------------------------------------|--|--|-------|-------|--------|--|
| Frequency Range                                                                        |  |  | Value | Limit | Result |  |
| Fundamental                                                                            |  |  | N/A   | N/A   | N/A    |  |



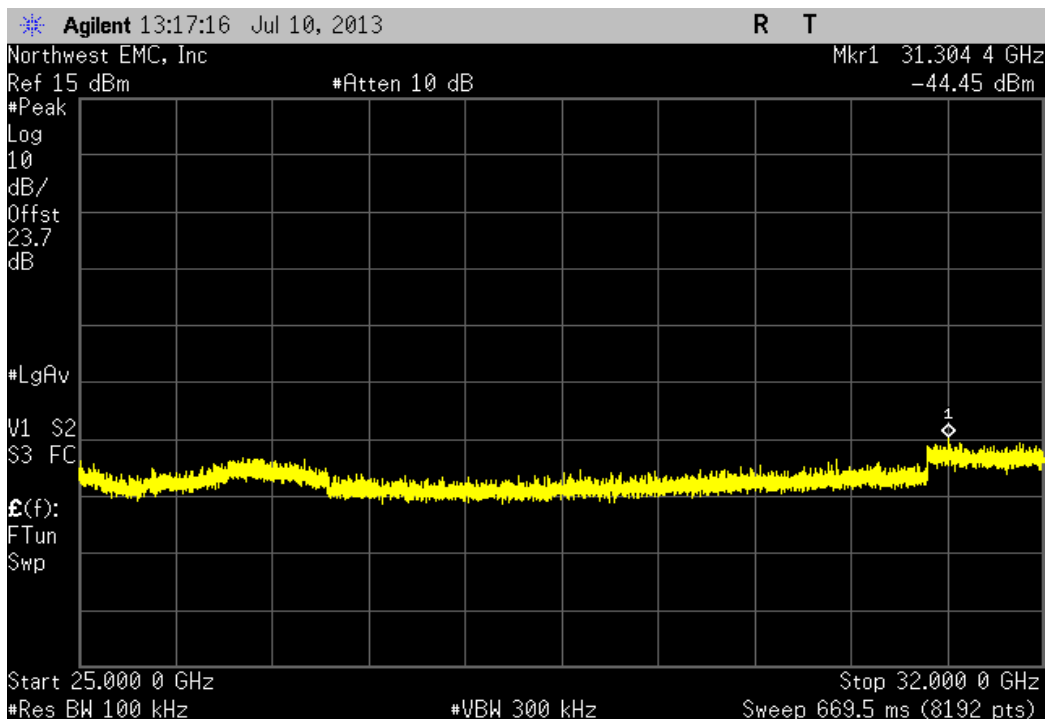
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                      | -51.22 dBc | ≤ -20 dBc | Pass   |  |



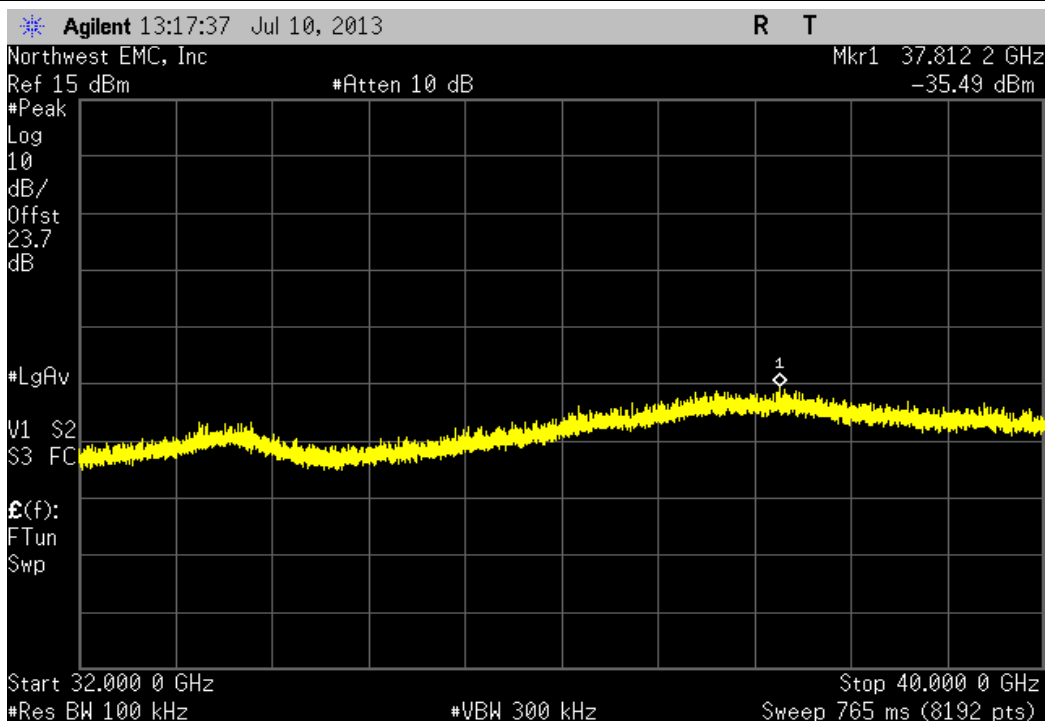
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -45.73 dBc | ≤ -20 dBc | Pass   |  |



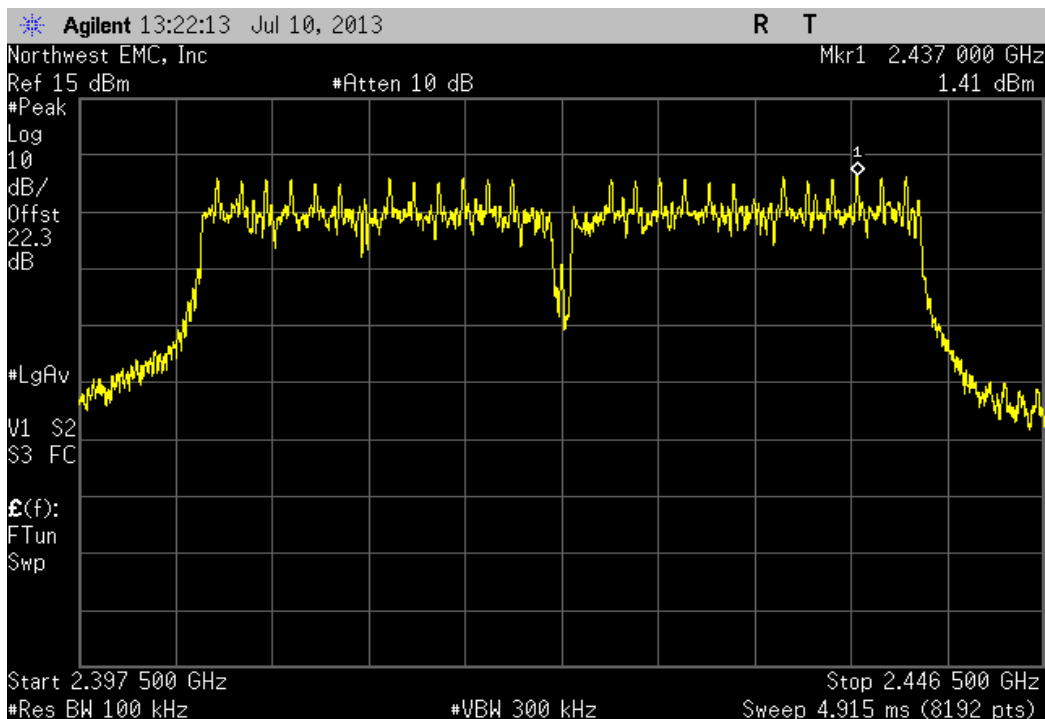
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                        |  | -42.77 dBc | ≤ -20 dBc | Pass   |



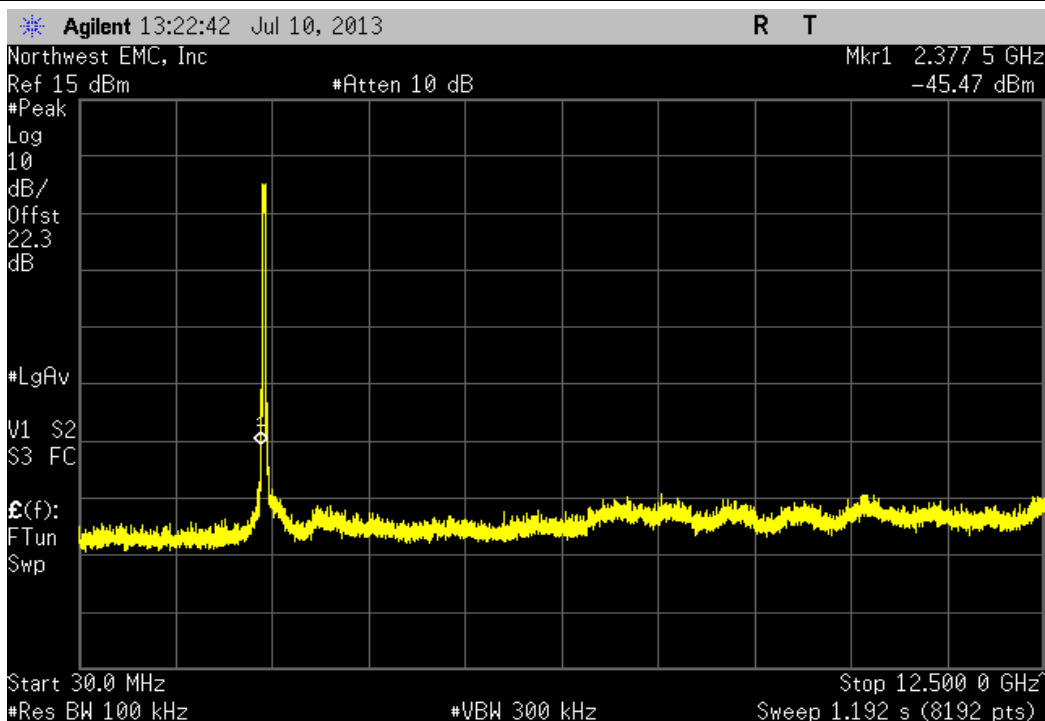
| Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                        |  | -33.81 dBc | ≤ -20 dBc | Pass   |



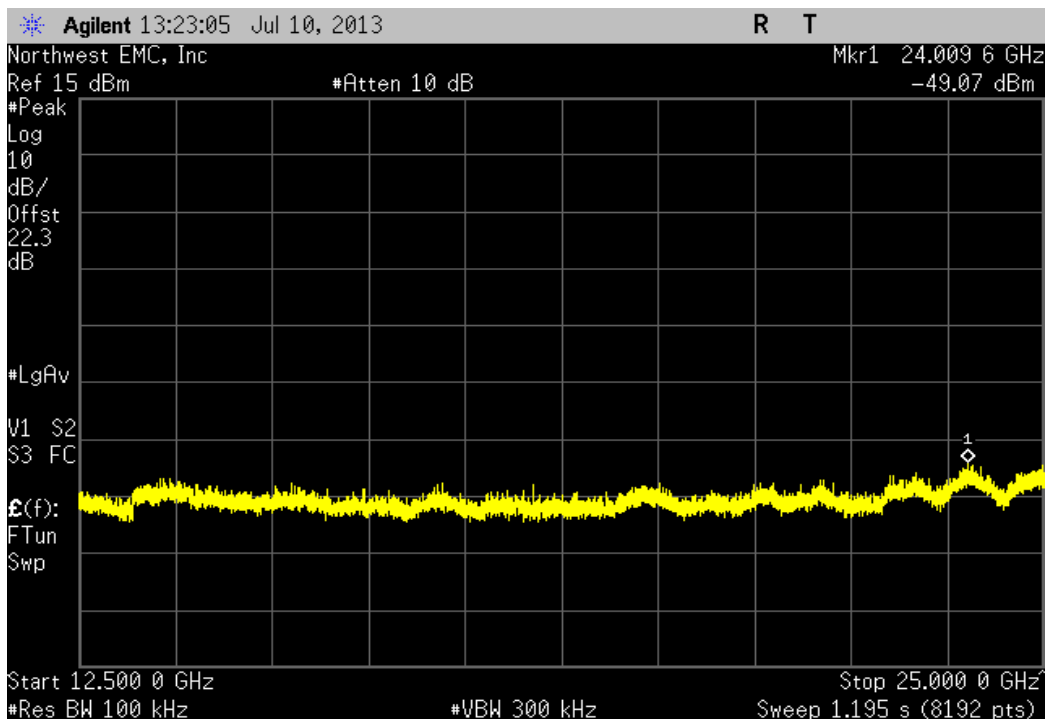
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz |  |  |  |       |       |        |
|----------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                        |  |  |  | Value | Limit | Result |
| Fundamental                                                                            |  |  |  | N/A   | N/A   | N/A    |



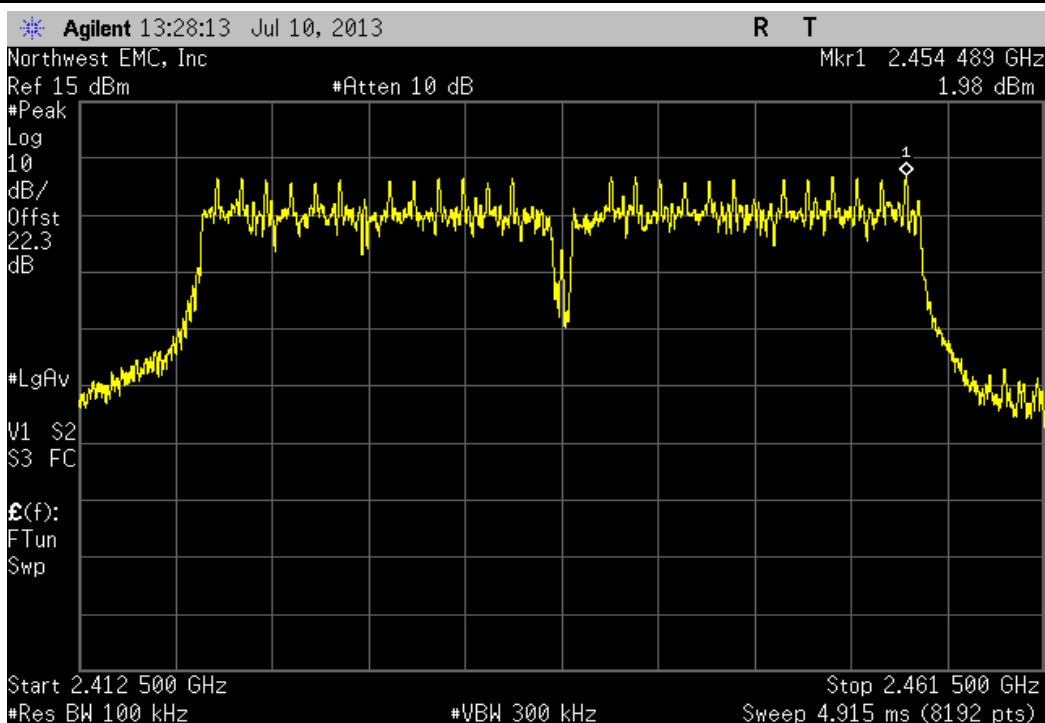
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz |  |  |  |            |           |        |
|----------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                        |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                      |  |  |  | -46.88 dBc | ≤ -20 dBc | Pass   |



| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency                                                                              | Value      | Limit     | Result |  |
| Range                                                                                  |            |           |        |  |
| 12.5 GHz - 25 GHz                                                                      | -50.48 dBc | ≤ -20 dBc | Pass   |  |

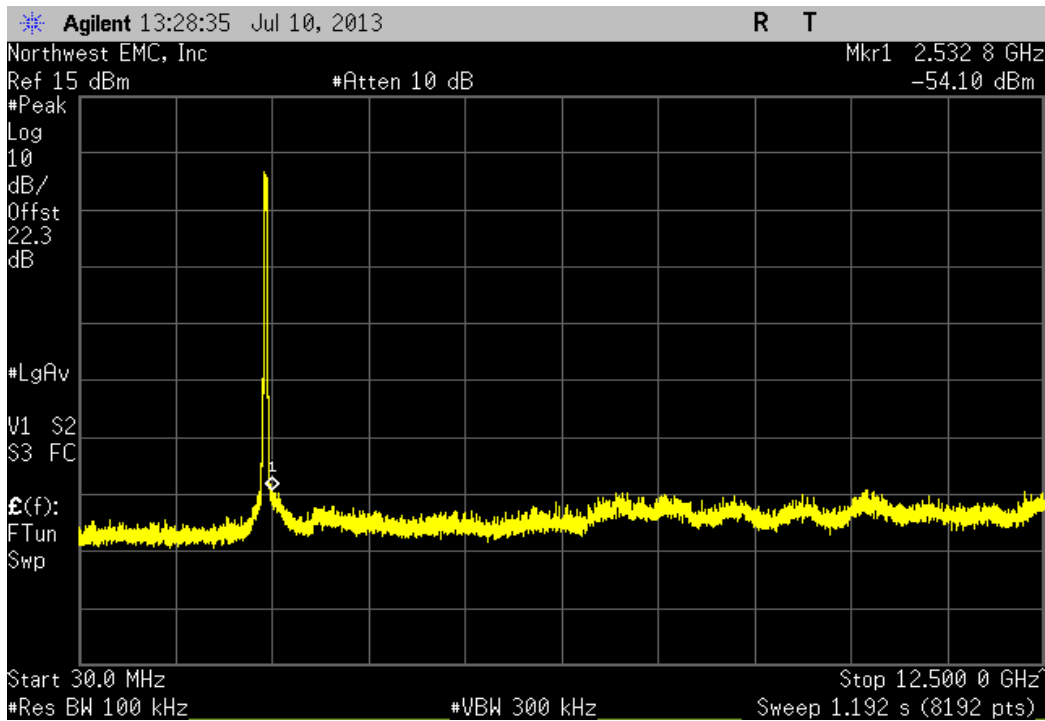


| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz |       |       |        |  |
|----------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency                                                                              | Value | Limit | Result |  |
| Range                                                                                  |       |       |        |  |
| Fundamental                                                                            | N/A   | N/A   | N/A    |  |

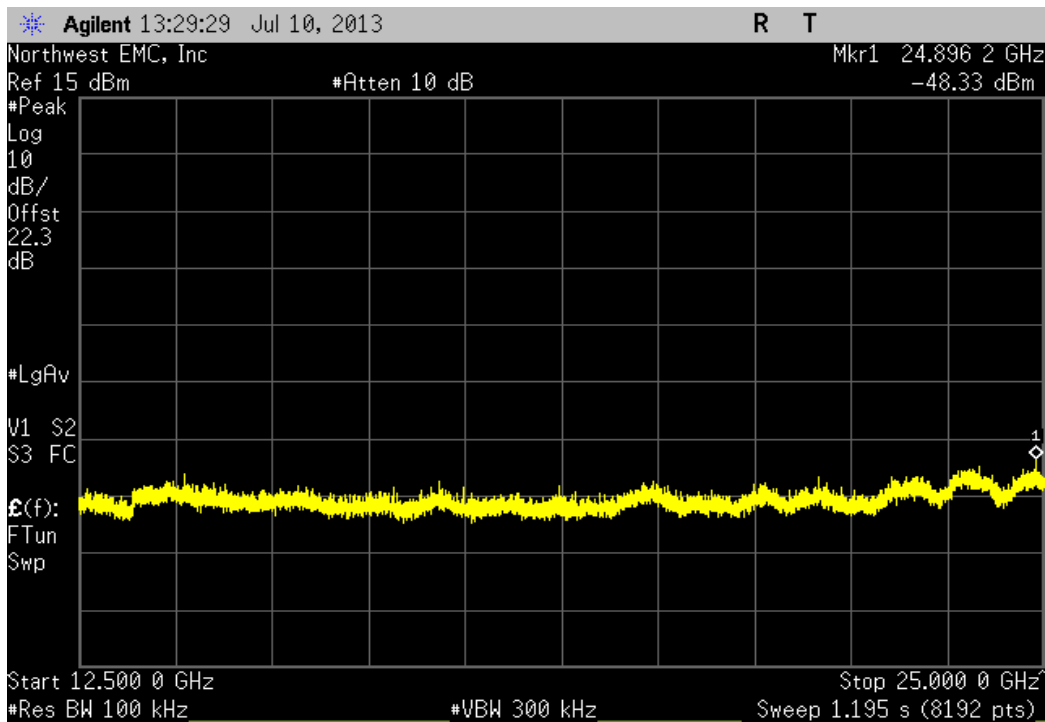




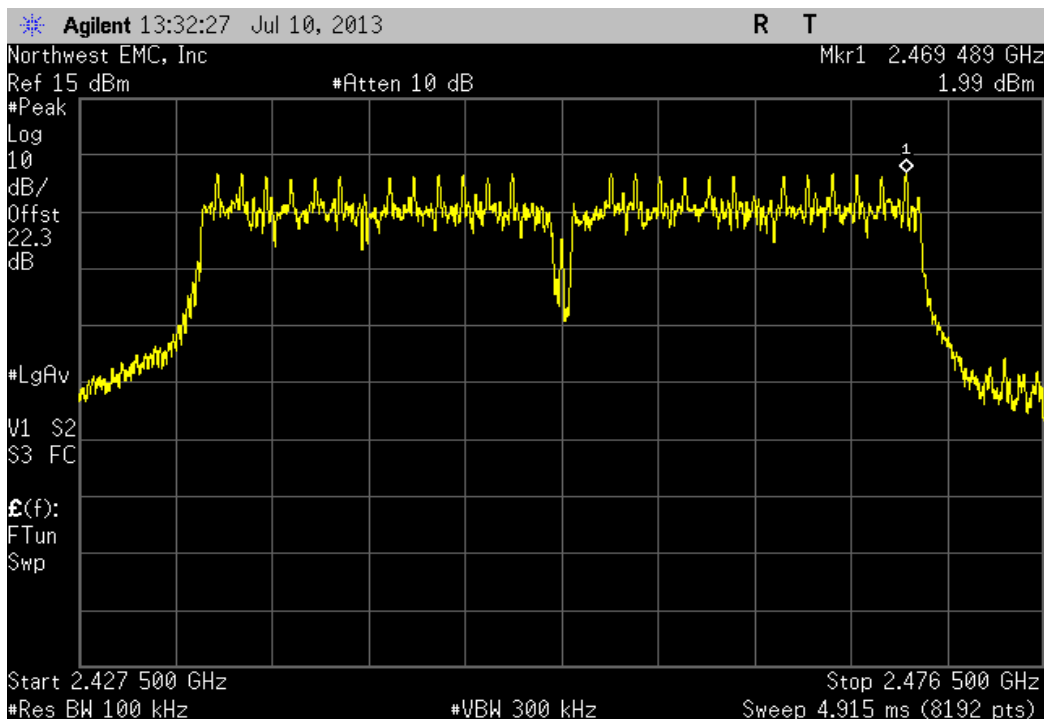
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                      | -56.08 dBc | ≤ -20 dBc | Pass   |  |



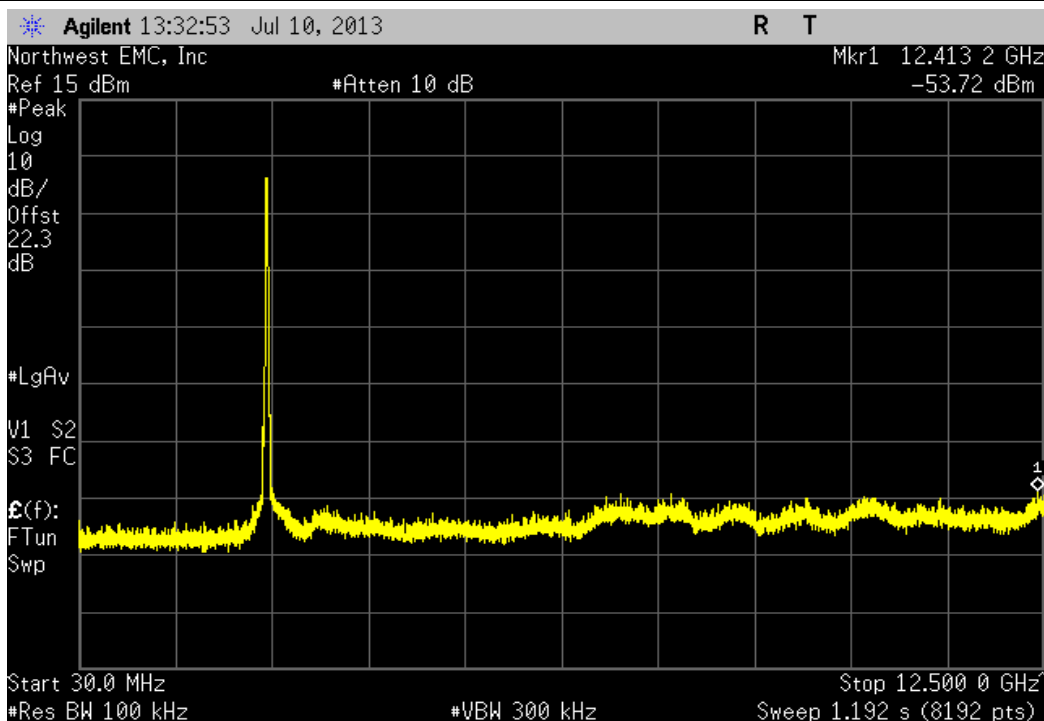
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -50.31 dBc | ≤ -20 dBc | Pass   |  |



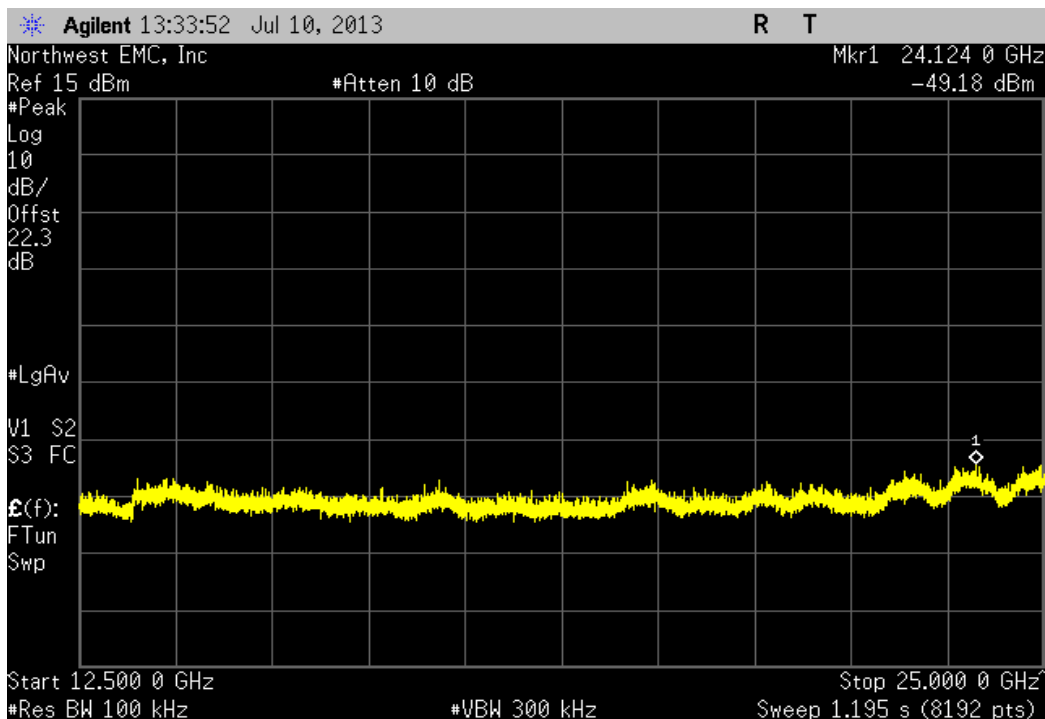
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz |  |  |  |       |       |        |
|------------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                          |  |  |  | Value | Limit | Result |
| Fundamental                                                                              |  |  |  | N/A   | N/A   | N/A    |



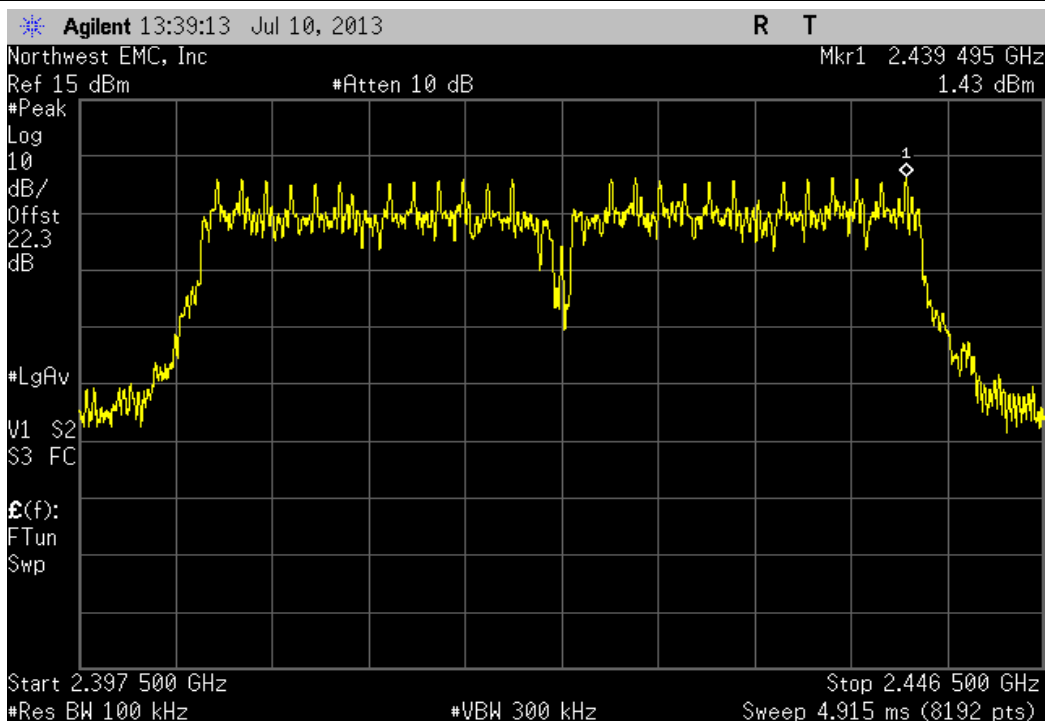
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz |  |  |  |            |           |        |
|------------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                          |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                        |  |  |  | -55.71 dBc | ≤ -20 dBc | Pass   |



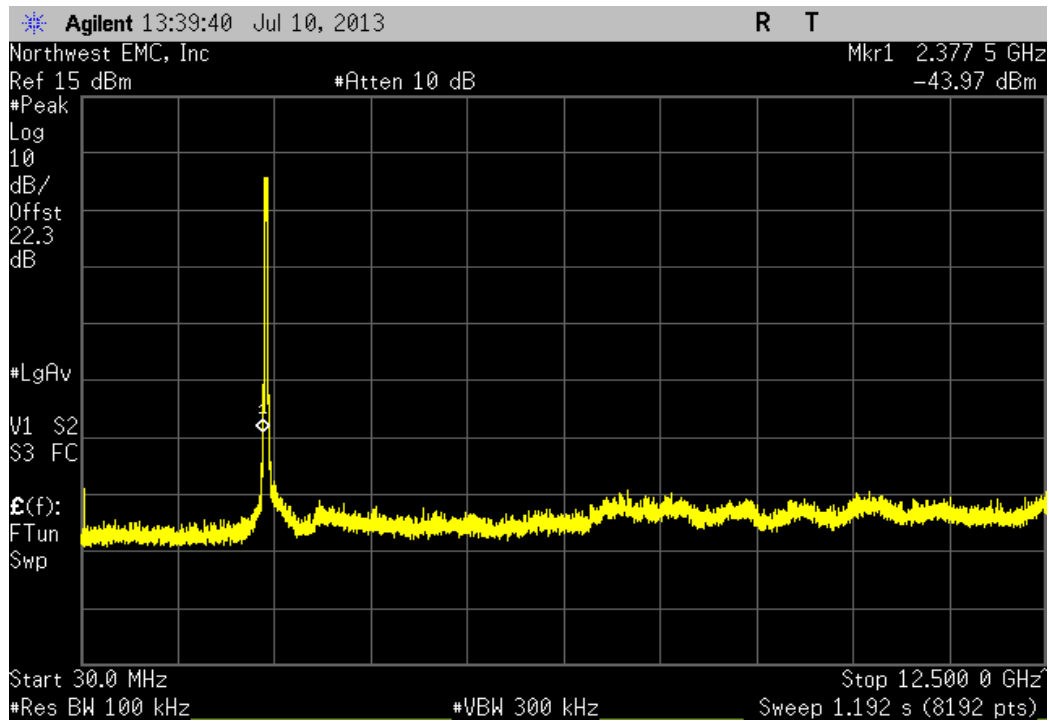
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz |            |           |        |  |
|------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                          | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                        | -51.17 dBc | ≤ -20 dBc | Pass   |  |



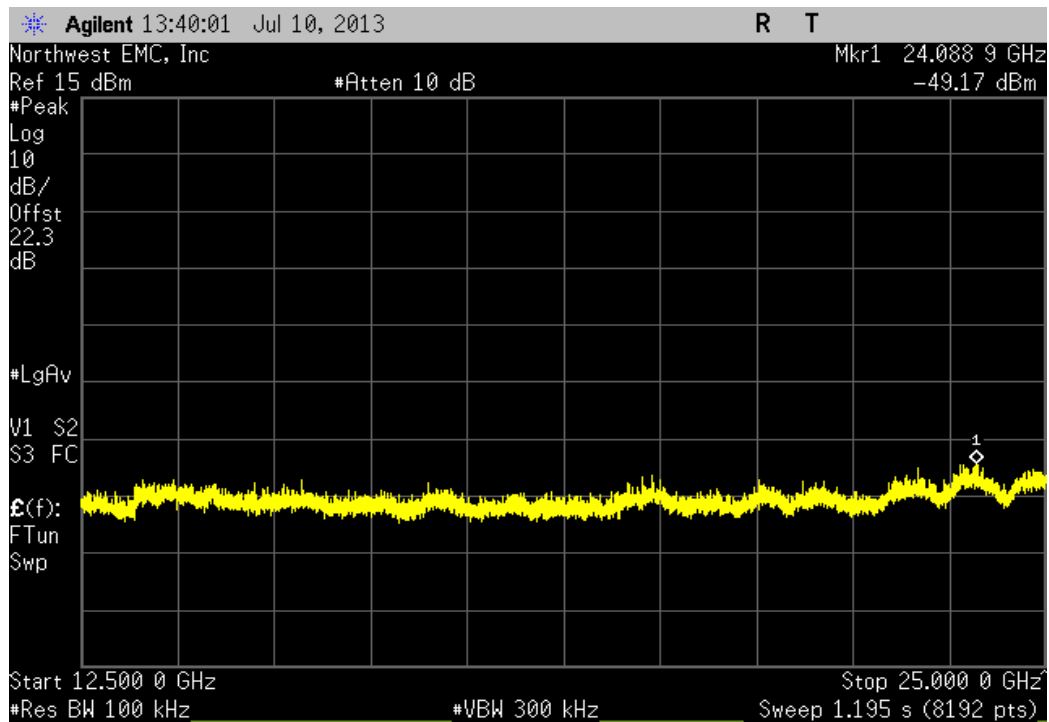
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz |       |       |        |  |
|-----------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                         | Value | Limit | Result |  |
| Fundamental                                                                             | N/A   | N/A   | N/A    |  |



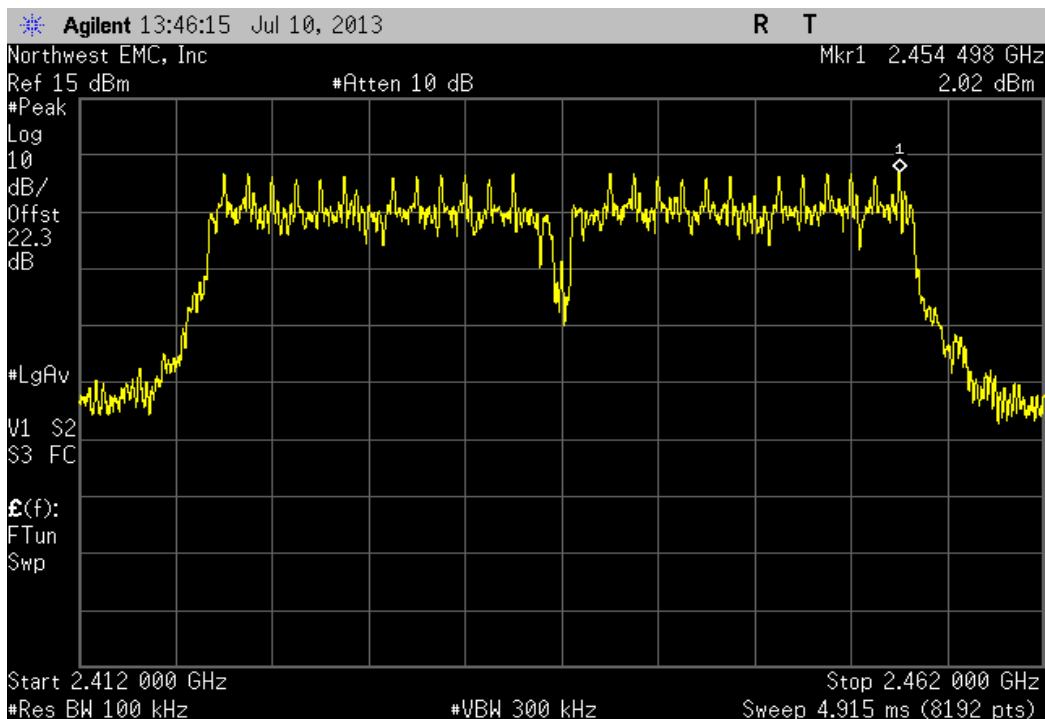
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz |           |           |        |  |
|-----------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                         | Value     | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -45.4 dBc | ≤ -20 dBc | Pass   |  |



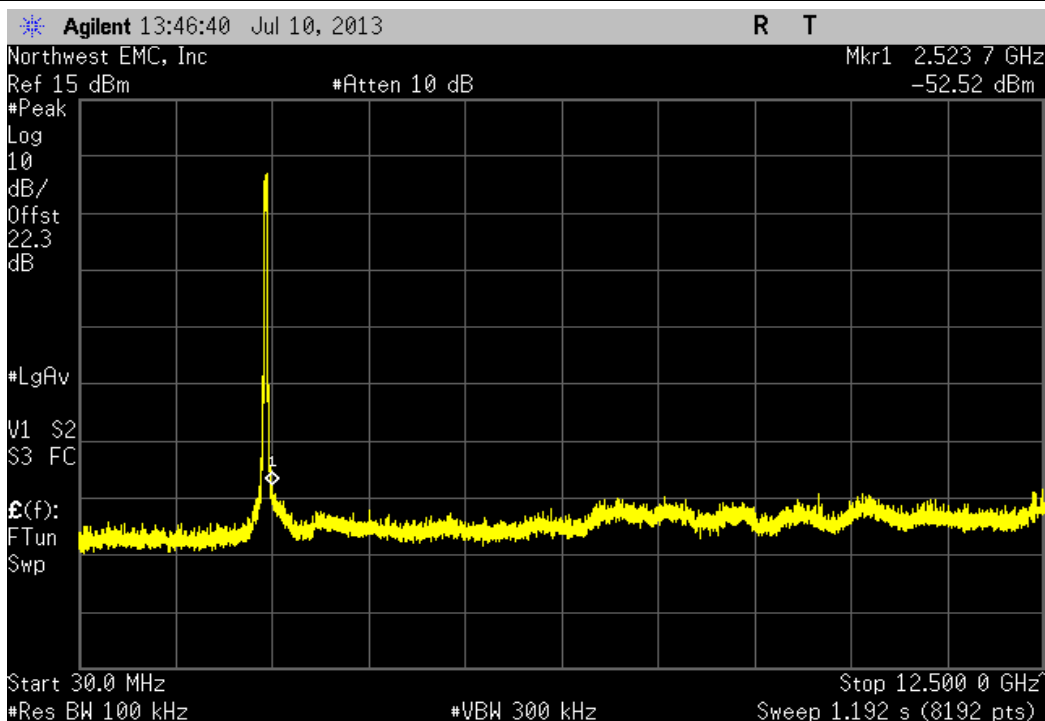
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz |           |           |        |  |
|-----------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                         | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -50.6 dBc | ≤ -20 dBc | Pass   |  |



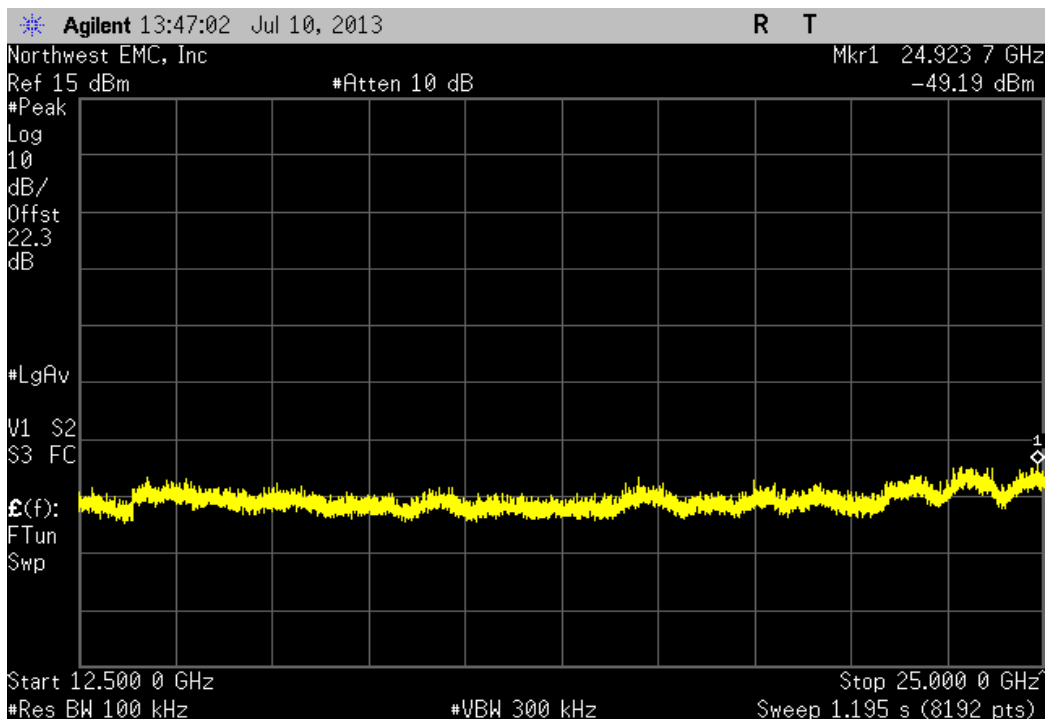
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz |             |  |       |       |        |  |
|-----------------------------------------------------------------------------------------|-------------|--|-------|-------|--------|--|
| Frequency Range                                                                         |             |  | Value | Limit | Result |  |
|                                                                                         | Fundamental |  | N/A   | N/A   | N/A    |  |



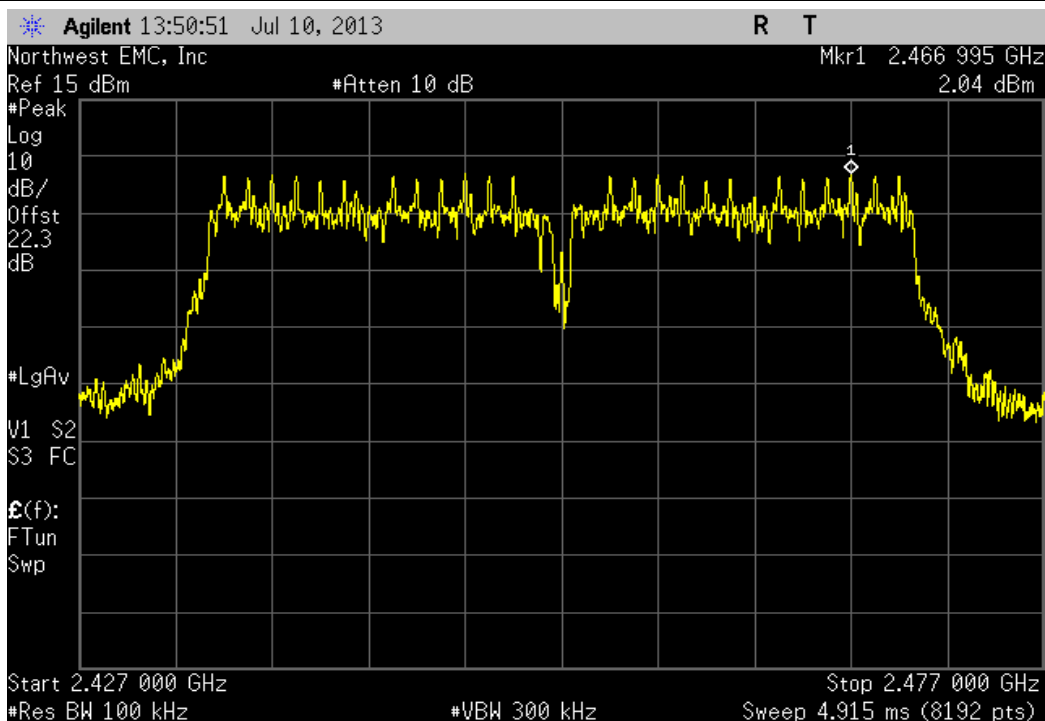
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz |                   |  |            |           |        |  |
|-----------------------------------------------------------------------------------------|-------------------|--|------------|-----------|--------|--|
| Frequency Range                                                                         |                   |  | Value      | Limit     | Result |  |
|                                                                                         | 30 MHz - 12.5 GHz |  | -54.54 dBc | ≤ -20 dBc | Pass   |  |



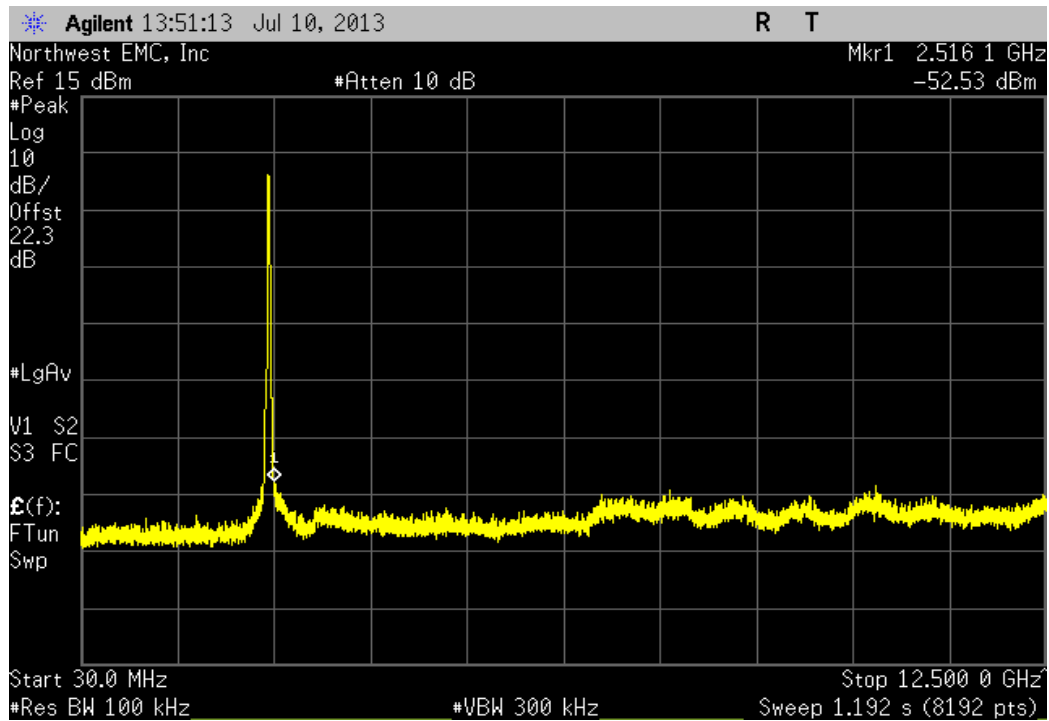
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -51.21 dBc | ≤ -20 dBc | Pass   |  |



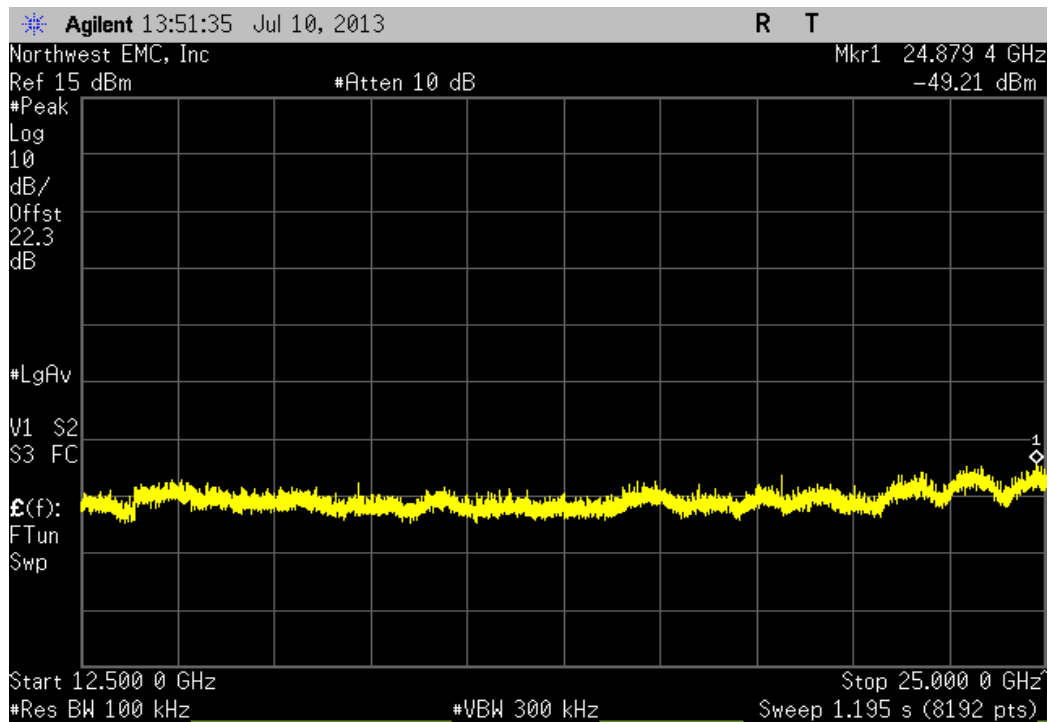
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz |       |       |        |  |
|-------------------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                           | Value | Limit | Result |  |
| Fundamental                                                                               | N/A   | N/A   | N/A    |  |



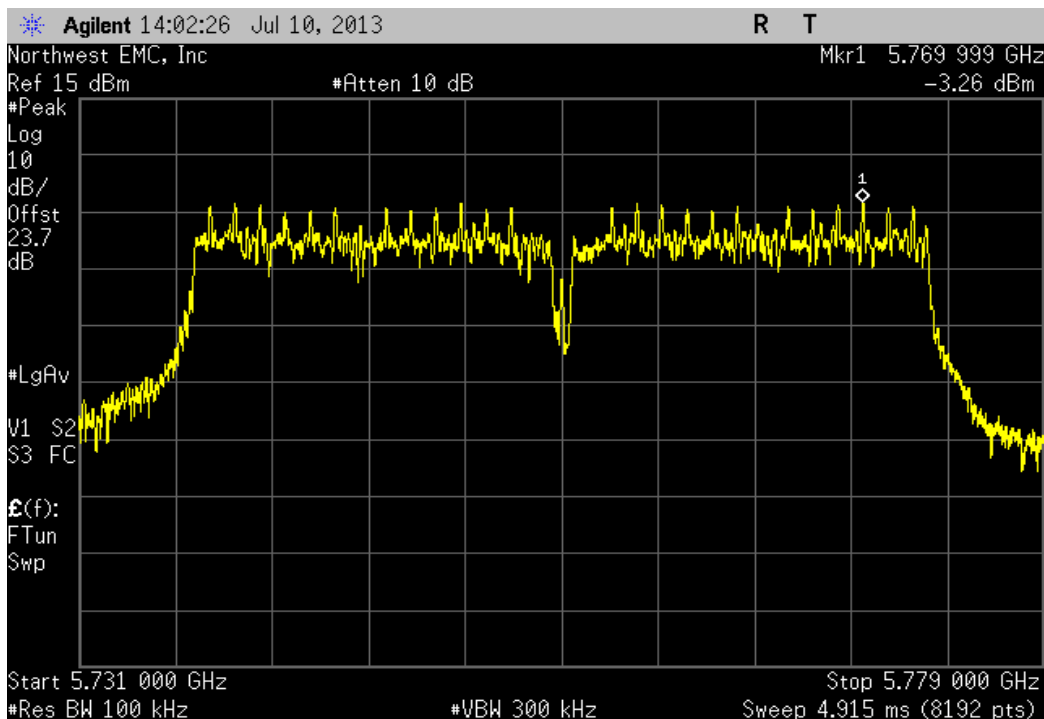
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                         | -54.57 dBc | ≤ -20 dBc | Pass   |  |



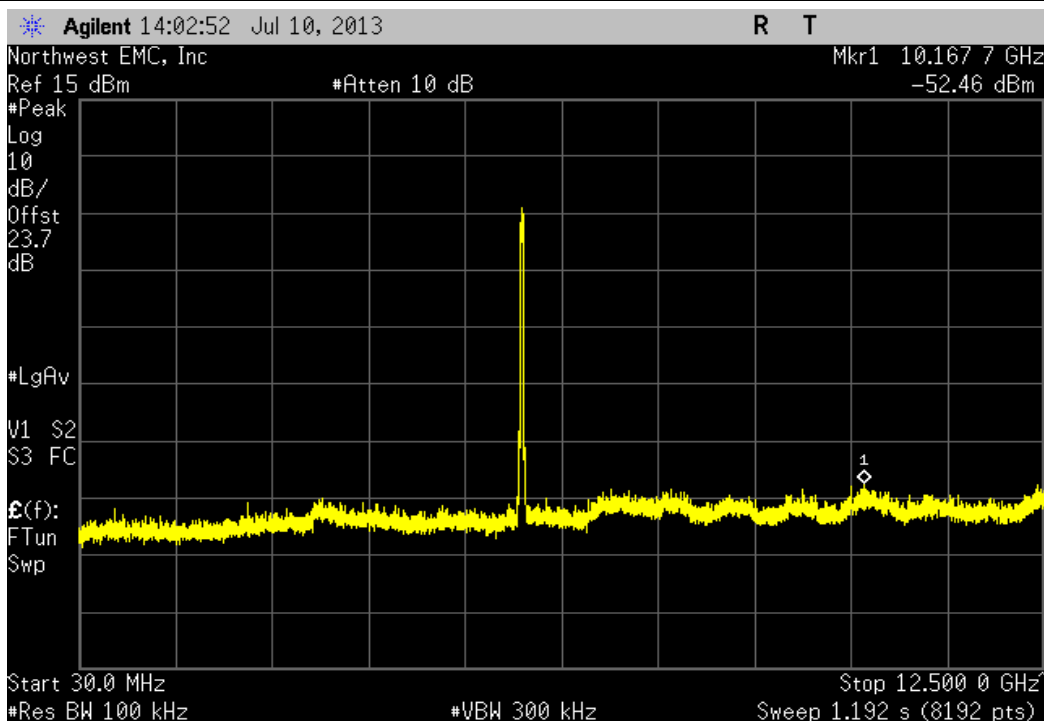
| Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                         | -51.25 dBc | ≤ -20 dBc | Pass   |  |



| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |  |       |       |        |
|------------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                          |  | Value | Limit | Result |
| Fundamental                                                                              |  | N/A   | N/A   | N/A    |

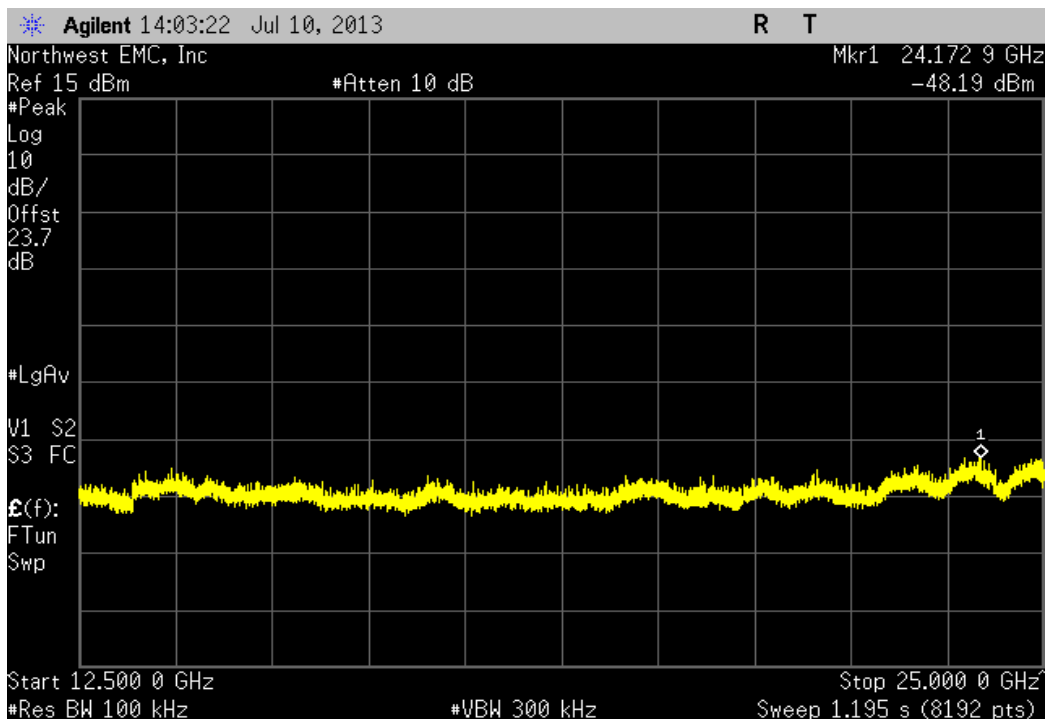


| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |  |           |           |        |
|------------------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                          |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                        |  | -49.2 dBc | ≤ -20 dBc | Pass   |

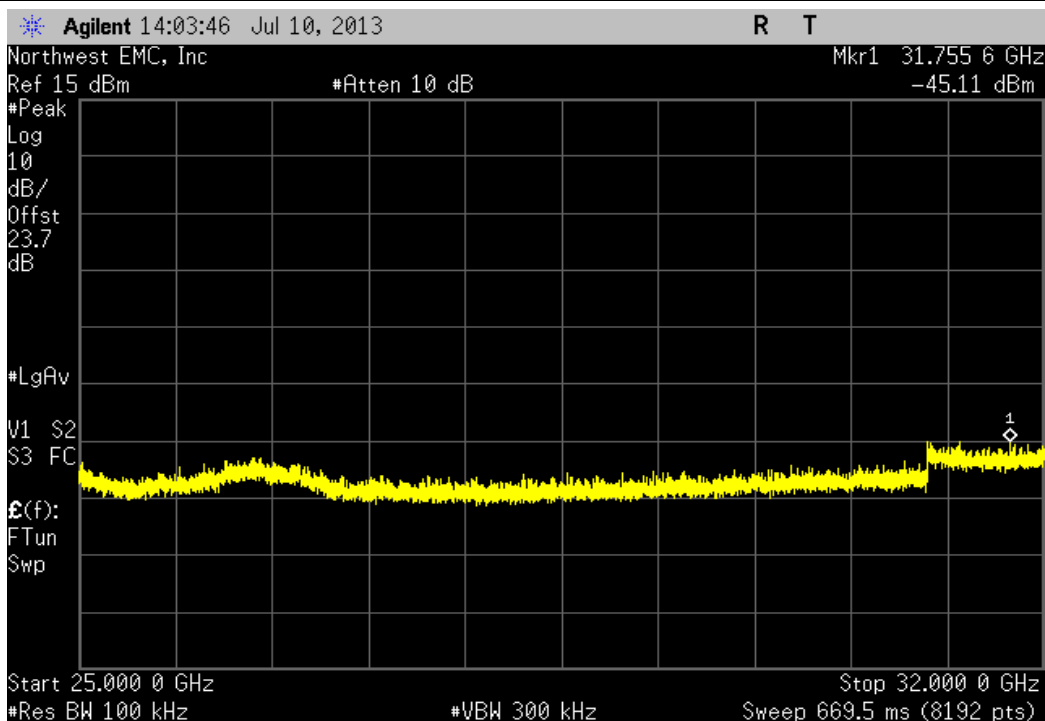




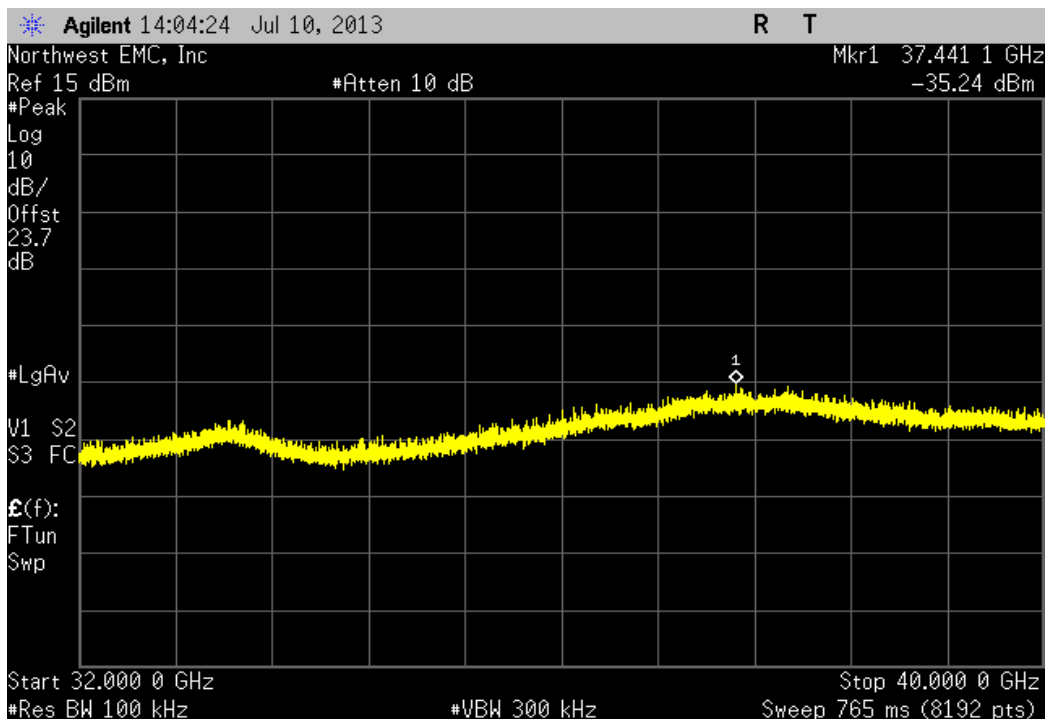
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |            |           |        |  |
|------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                          | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                        | -44.93 dBc | ≤ -20 dBc | Pass   |  |



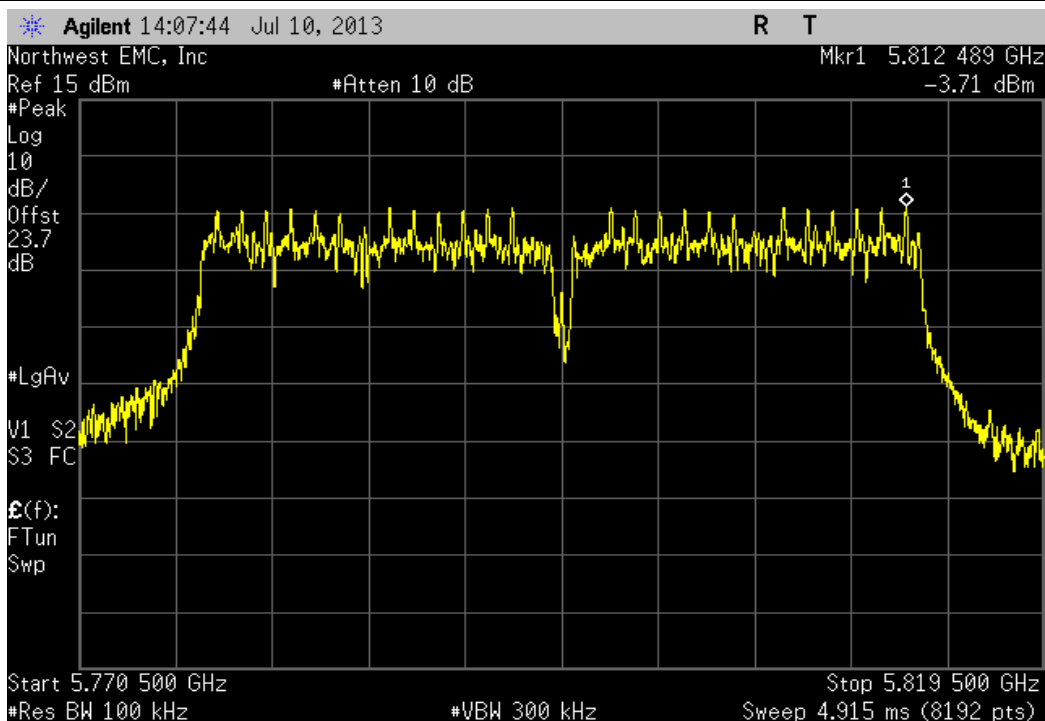
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |            |           |        |  |
|------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                          | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                          | -41.85 dBc | ≤ -20 dBc | Pass   |  |



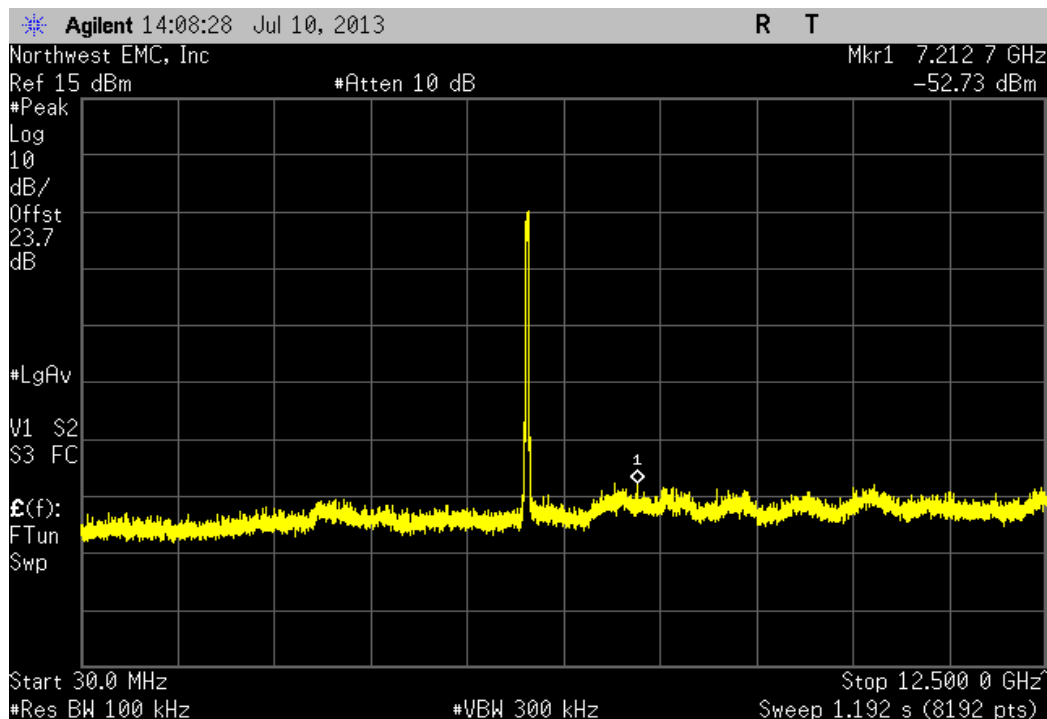
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz |  |            |           |        |
|------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                          |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                          |  | -31.98 dBc | ≤ -20 dBc | Pass   |



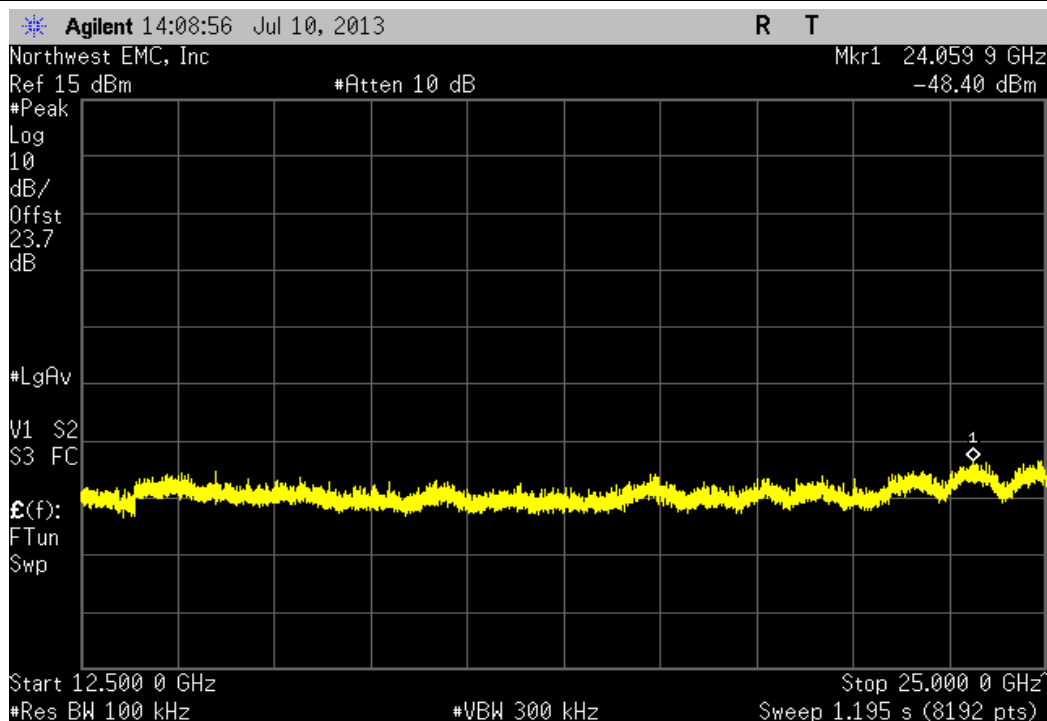
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |  |       |       |        |
|-------------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                           |  | Value | Limit | Result |
| Fundamental                                                                               |  | N/A   | N/A   | N/A    |



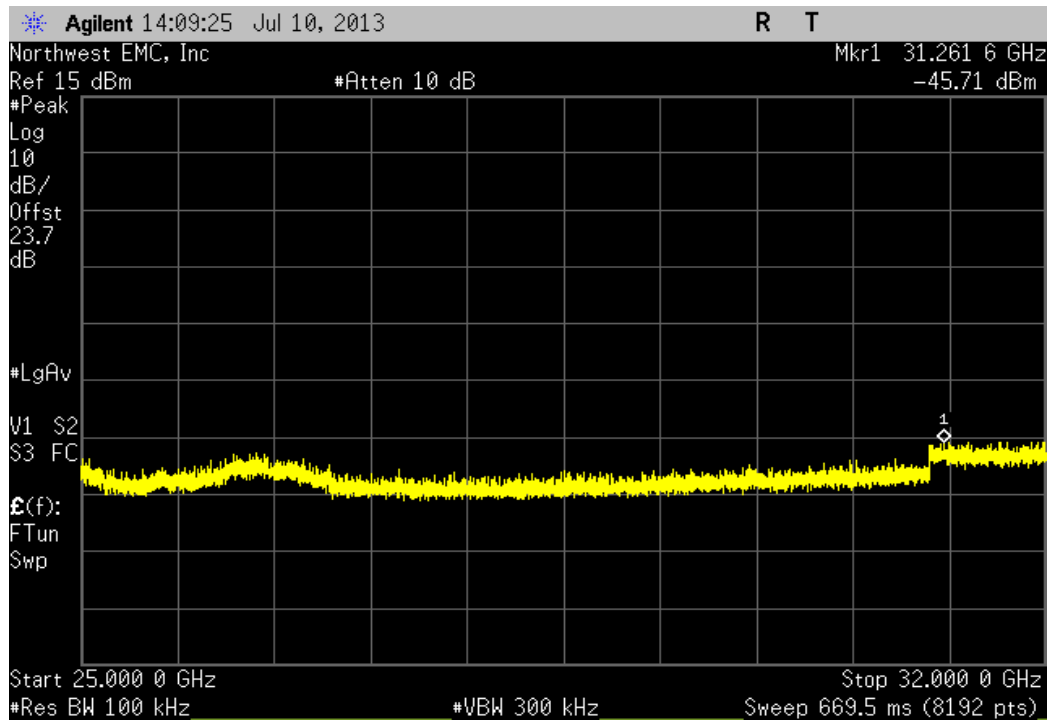
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                         | -49.02 dBc | ≤ -20 dBc | Pass   |  |



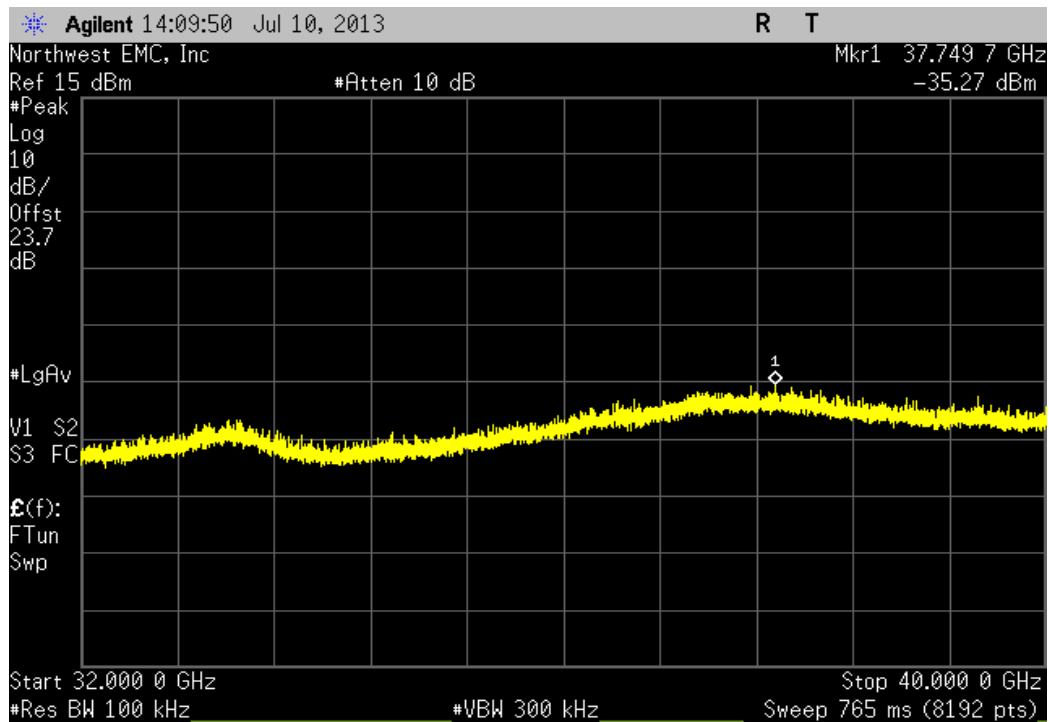
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                         | -44.69 dBc | ≤ -20 dBc | Pass   |  |



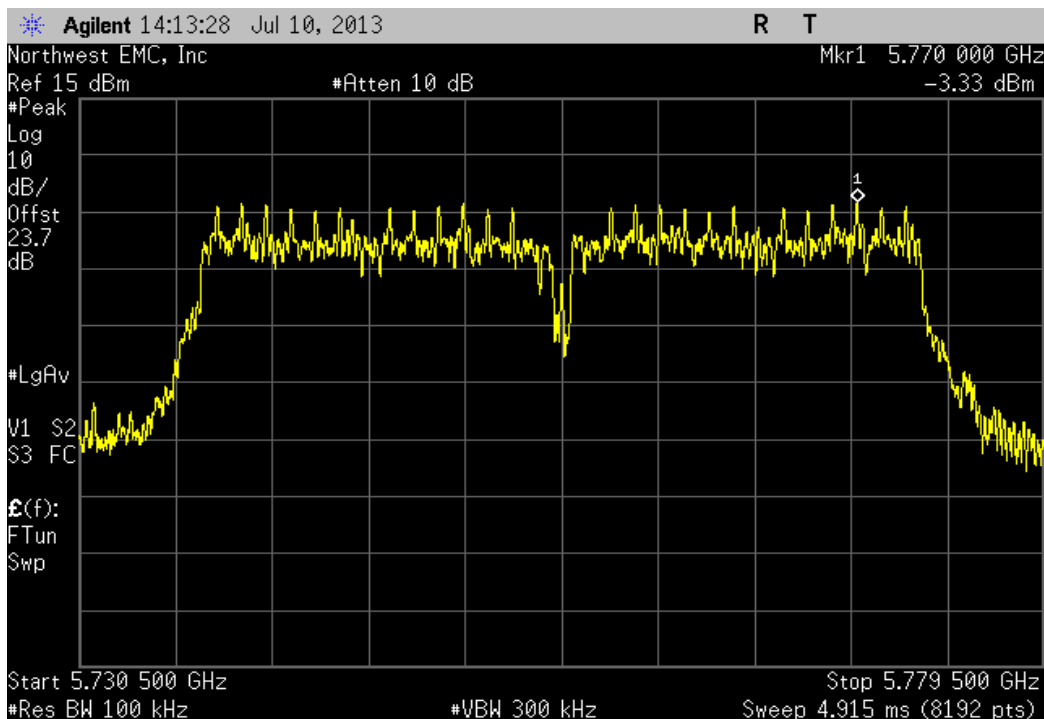
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |  |         |           |        |  |
|-------------------------------------------------------------------------------------------|--|---------|-----------|--------|--|
| Frequency Range                                                                           |  | Value   | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                           |  | -42 dBc | ≤ -20 dBc | Pass   |  |



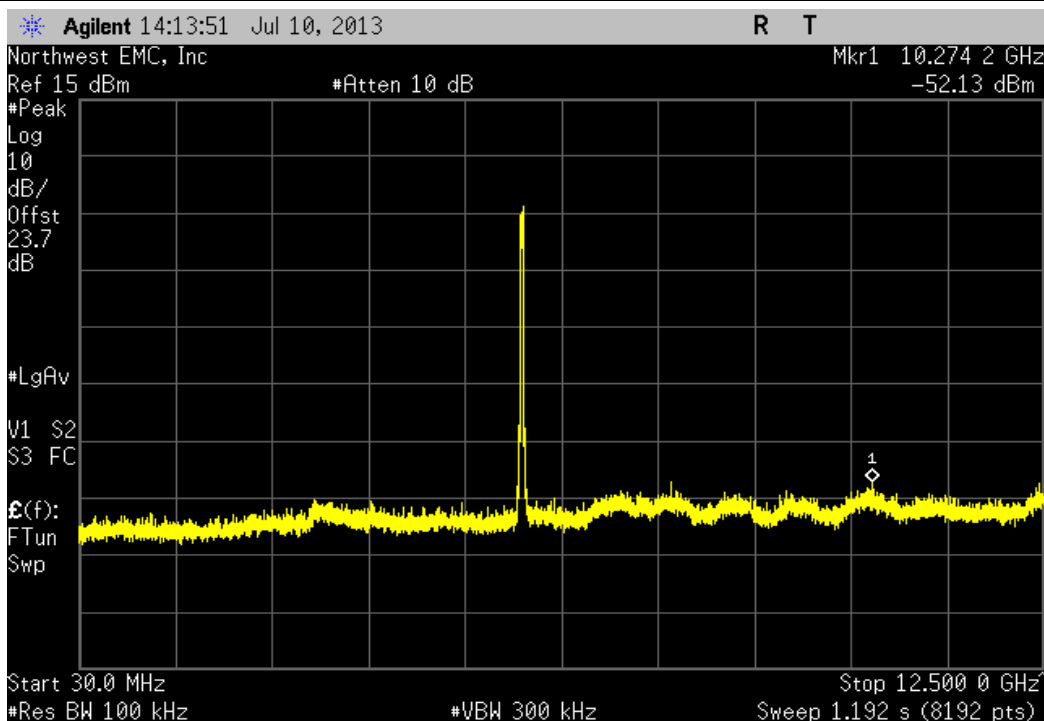
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz |  |            |           |        |  |
|-------------------------------------------------------------------------------------------|--|------------|-----------|--------|--|
| Frequency Range                                                                           |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                           |  | -31.56 dBc | ≤ -20 dBc | Pass   |  |



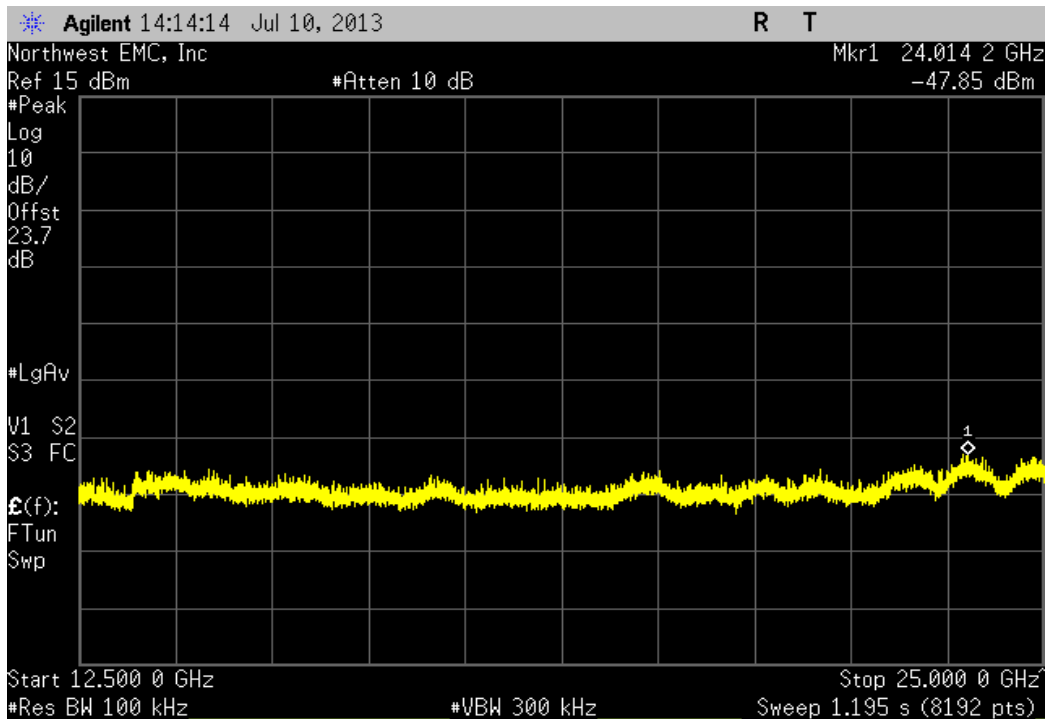
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |  |       |       |        |
|-------------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                           |  | Value | Limit | Result |
| Fundamental                                                                               |  | N/A   | N/A   | N/A    |



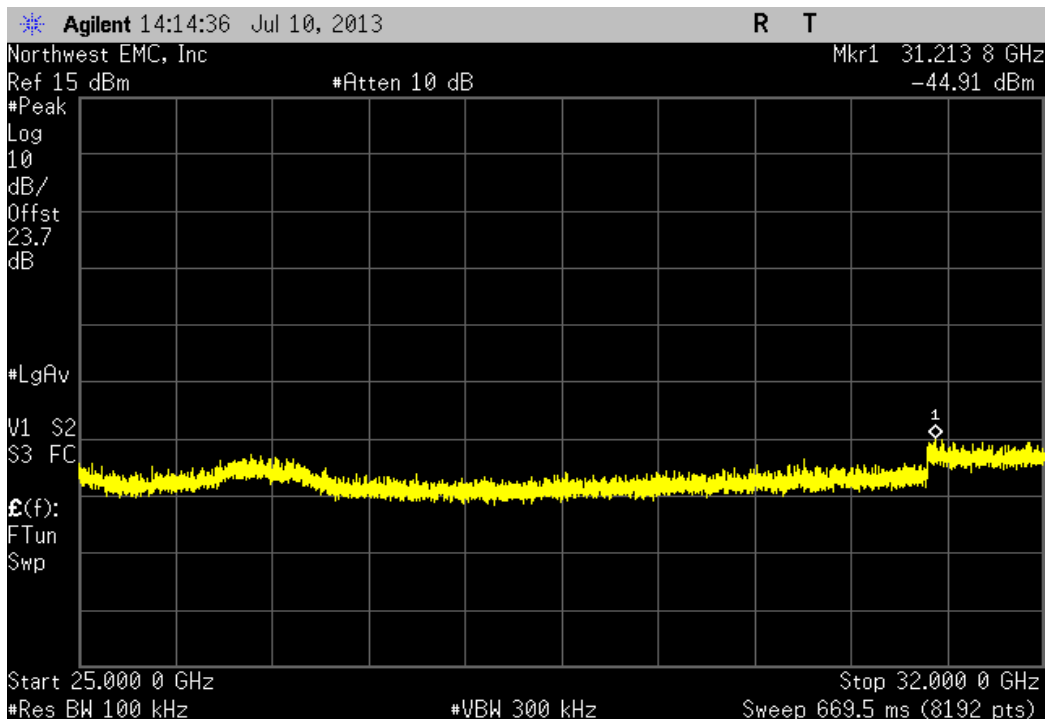
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |  |            |           |        |
|-------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                           |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                         |  | -48.81 dBc | ≤ -20 dBc | Pass   |



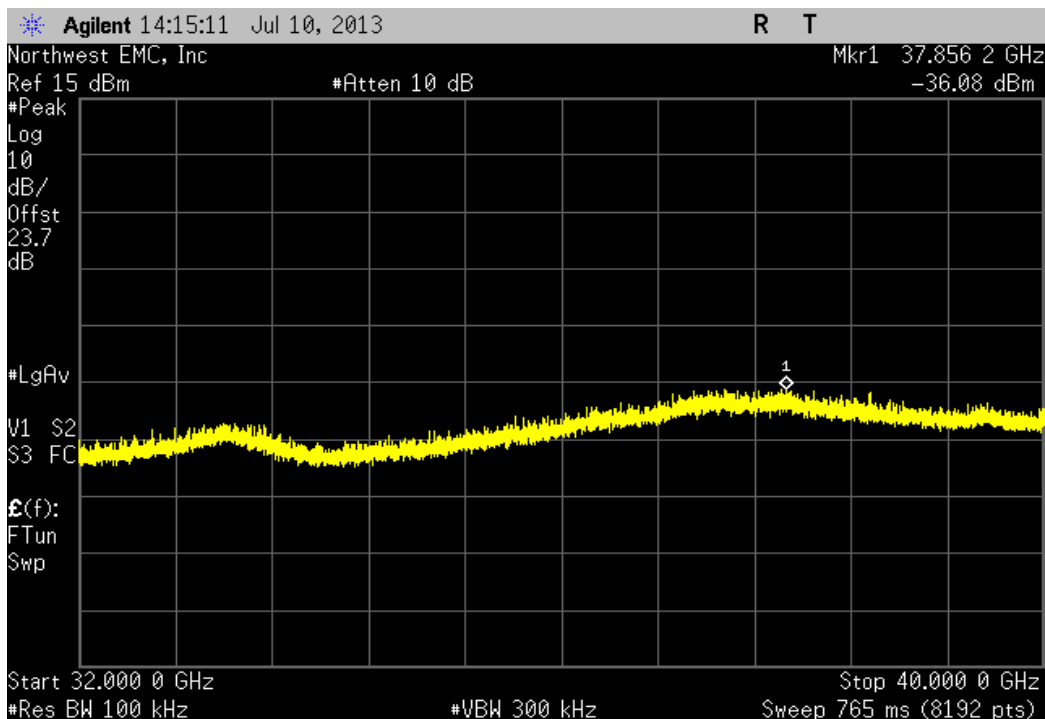
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                         | -44.52 dBc | ≤ -20 dBc | Pass   |  |



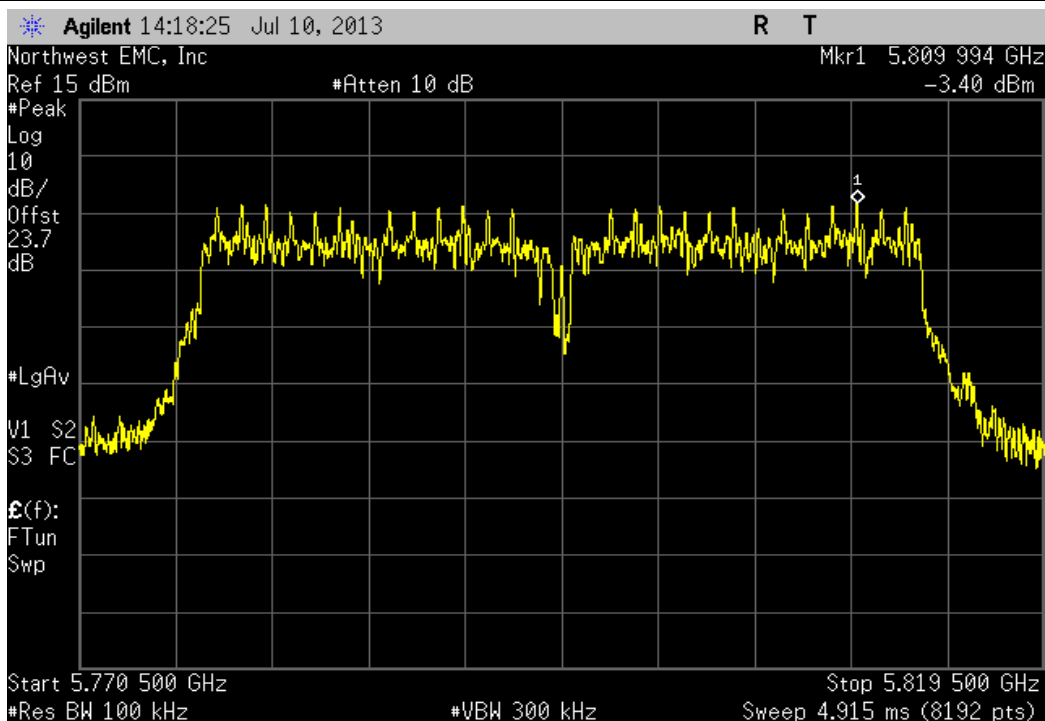
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                           | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                           | -41.58 dBc | ≤ -20 dBc | Pass   |  |



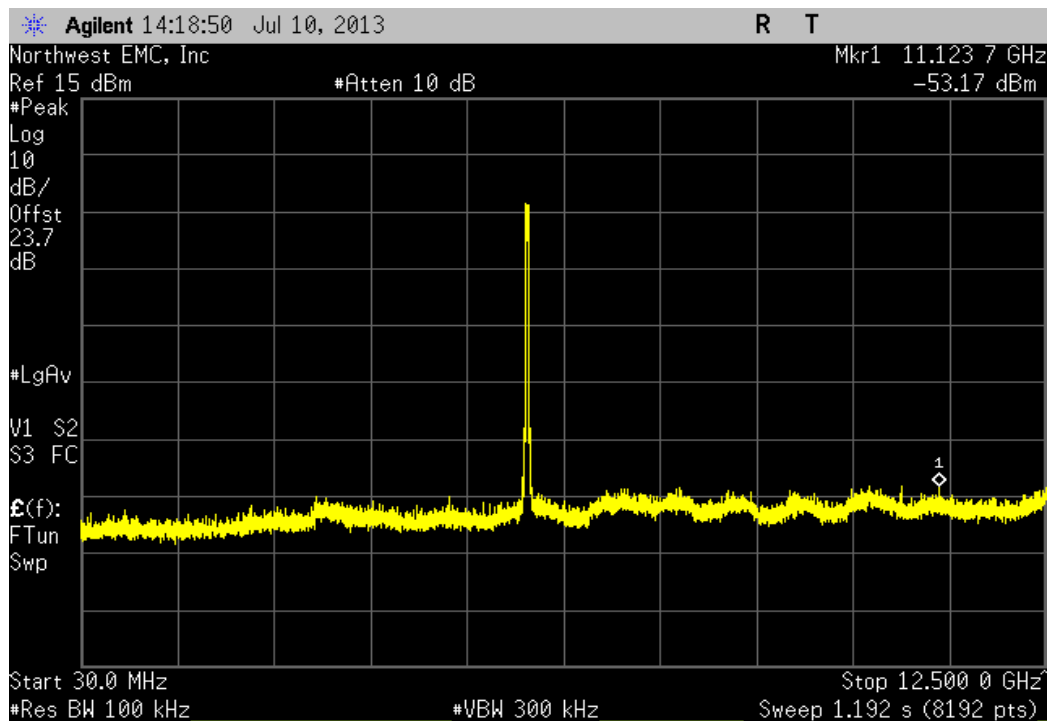
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz |  |            |           |        |
|-------------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                           |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                           |  | -32.75 dBc | ≤ -20 dBc | Pass   |



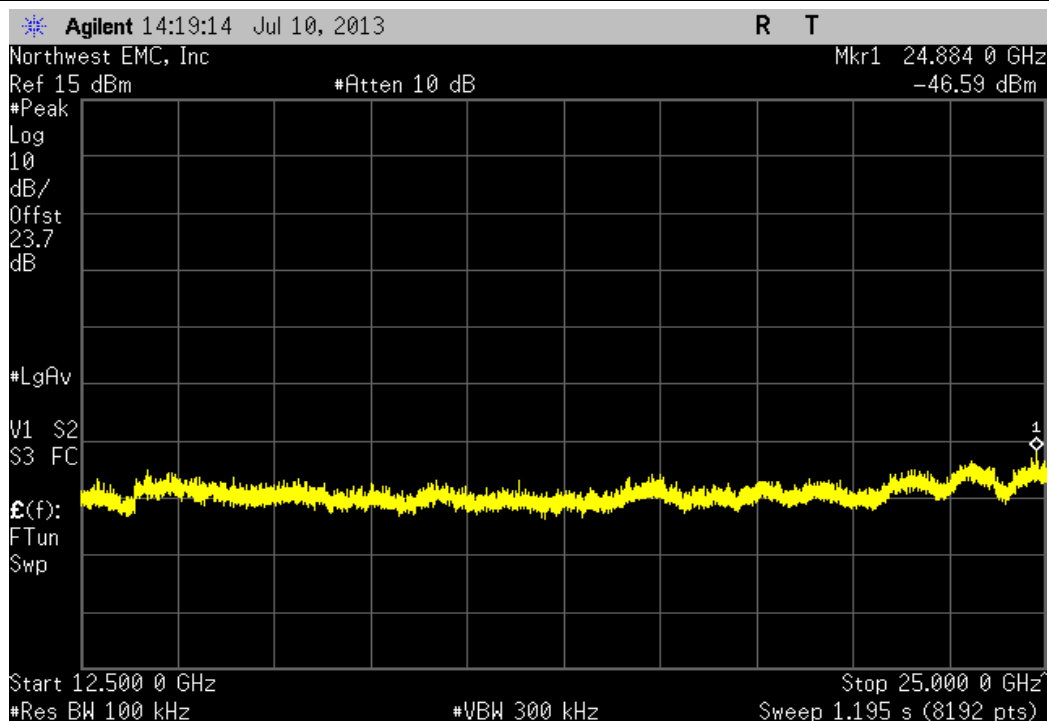
| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |  |       |       |        |
|--------------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                            |  | Value | Limit | Result |
| Fundamental                                                                                |  | N/A   | N/A   | N/A    |



| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                            | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                          | -49.77 dBc | ≤ -20 dBc | Pass   |  |

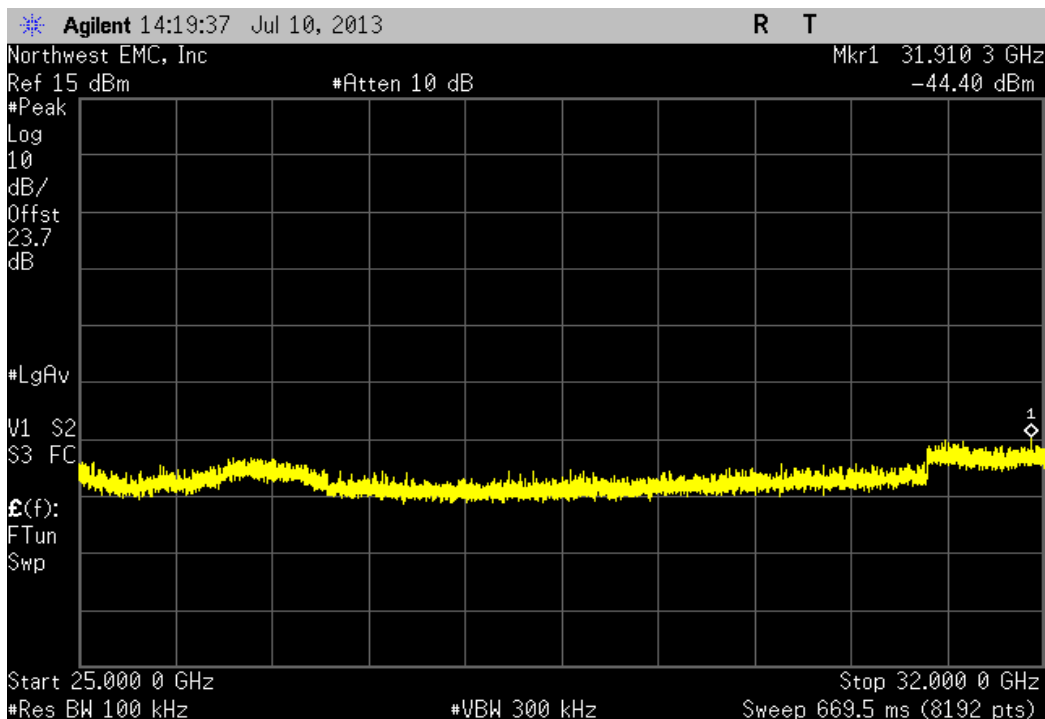


| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |            |           |        |  |
|--------------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                            | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                          | -43.19 dBc | ≤ -20 dBc | Pass   |  |

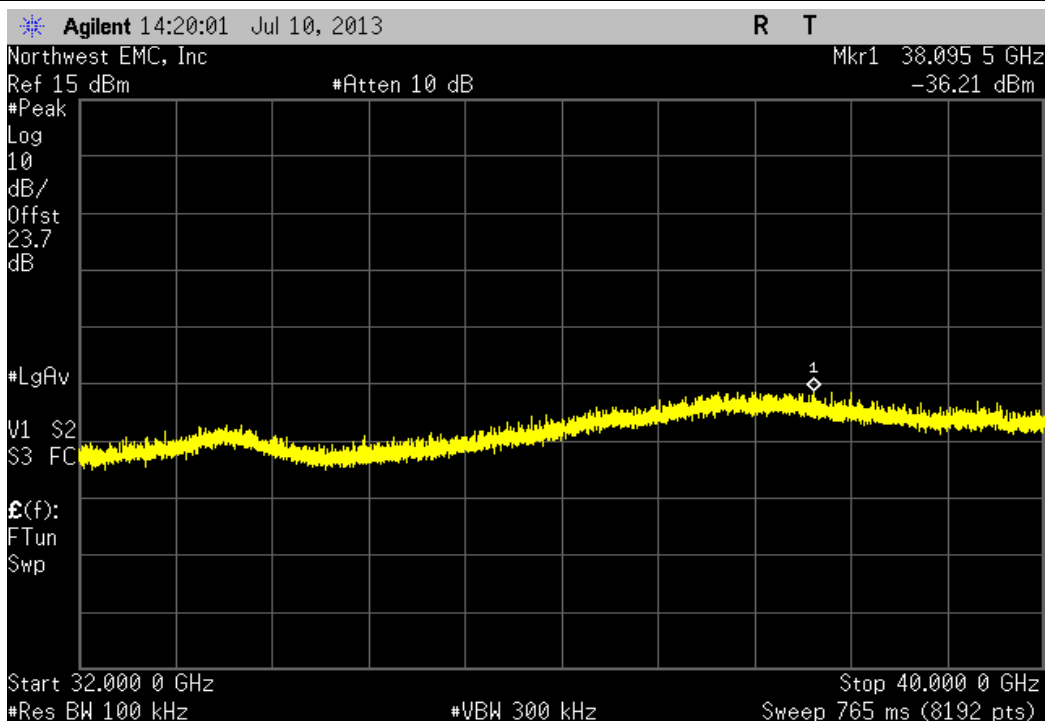




| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |  |         |           |        |  |
|--------------------------------------------------------------------------------------------|--|---------|-----------|--------|--|
| Frequency Range                                                                            |  | Value   | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                            |  | -41 dBc | ≤ -20 dBc | Pass   |  |



| Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz |  |            |           |        |  |
|--------------------------------------------------------------------------------------------|--|------------|-----------|--------|--|
| Frequency Range                                                                            |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                            |  | -32.81 dBc | ≤ -20 dBc | Pass   |  |



## Spurious Conducted Emissions - Antenna A

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

### TEST EQUIPMENT

| Description       | Manufacturer       | Model            | ID  | Last Cal. | Interval |
|-------------------|--------------------|------------------|-----|-----------|----------|
| Signal Generator  | Agilent            | N5183A           | TID | 9/19/2011 | 36       |
| Attenuator        | Fairview Microwave | SA4014-20        | TKE | 2/12/2013 | 12       |
| Spectrum Analyzer | Agilent            | E4446A           | AAT | 6/28/2012 | 24       |
| NC02 Cable        | ESM Cable Corp     | TTBJ-141 KMKM-72 | NC5 | 7/3/2013  | 12       |

### TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



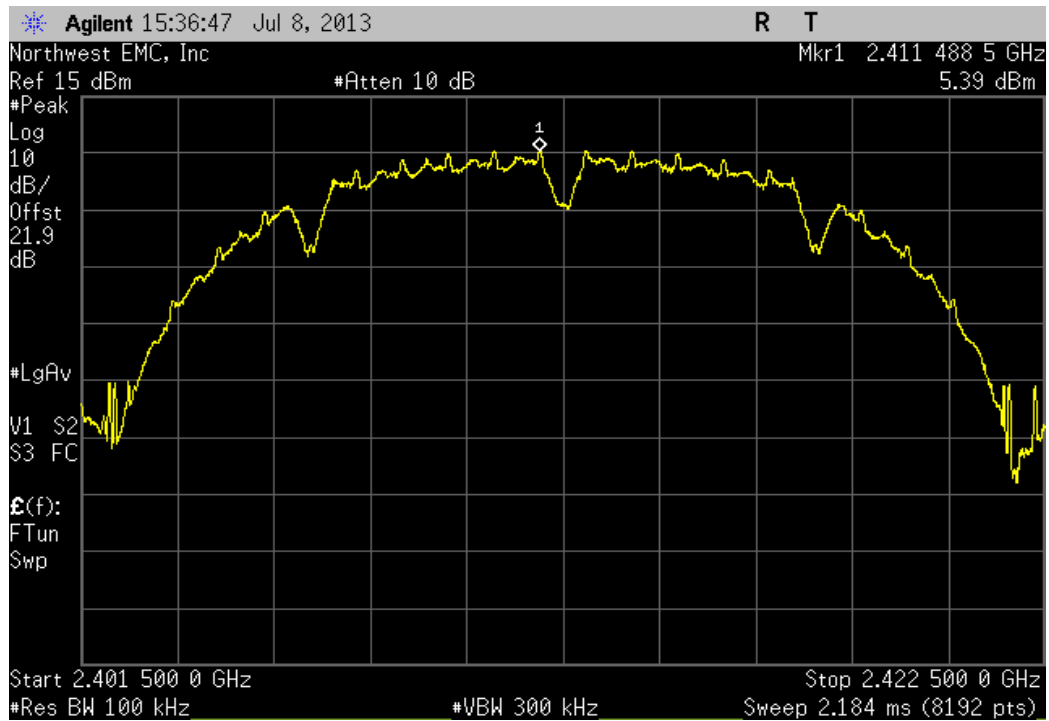
## Spurious Conducted Emissions - Antenna A

XMit 2013.02.28  
PsaTx 2013.06.07

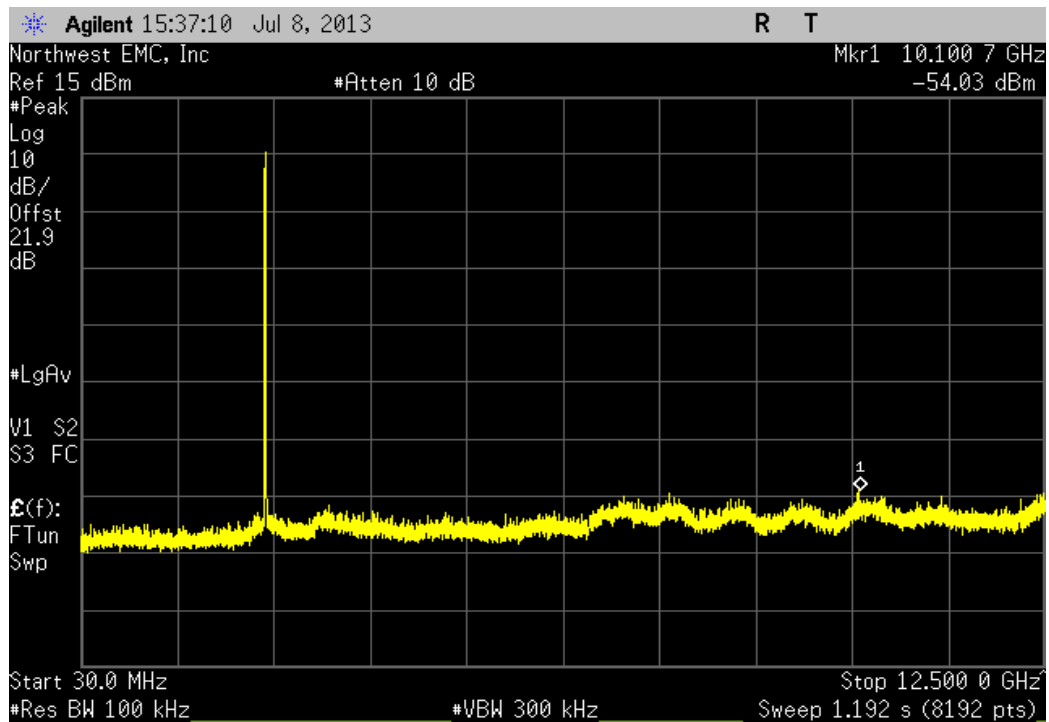
|                                                                                                                                                                        |   |                                                                                              |                    |           |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------|--------------------|-----------|------|
| EUT: 1601                                                                                                                                                              |   | Work Order: MCSO1665                                                                         |                    |           |      |
| Serial Number: 006079632553                                                                                                                                            |   | Date: 07/09/13                                                                               |                    |           |      |
| Customer: Microsoft Corporation                                                                                                                                        |   | Temperature: 23°C                                                                            |                    |           |      |
| Attendees: None                                                                                                                                                        |   | Humidity: 45%                                                                                |                    |           |      |
| Project: None                                                                                                                                                          |   | Barometric Pres.: 1020 mb                                                                    |                    |           |      |
| Tested by: Richard Mellroth, Brandon Hobbs                                                                                                                             |   | Power: 110VAC/60Hz                                                                           |                    |           |      |
| Job Site: NC02                                                                                                                                                         |   |                                                                                              |                    |           |      |
| TEST SPECIFICATIONS                                                                                                                                                    |   | Test Method                                                                                  |                    |           |      |
| FCC 15.247:2013                                                                                                                                                        |   | ANSI C63.10:2009                                                                             |                    |           |      |
| COMMENTS                                                                                                                                                               |   |                                                                                              |                    |           |      |
| EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset. |   |                                                                                              |                    |           |      |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                          |   |                                                                                              |                    |           |      |
| None                                                                                                                                                                   |   |                                                                                              |                    |           |      |
| Configuration #                                                                                                                                                        | 1 | Signature  |                    |           |      |
|                                                                                                                                                                        |   | Frequency Range                                                                              | Value Limit Result |           |      |
| 20 MHz                                                                                                                                                                 |   |                                                                                              |                    |           |      |
| 2400 MHz - 2483.5 MHz Band                                                                                                                                             |   |                                                                                              |                    |           |      |
| 802.11(b) 1 Mbps                                                                                                                                                       |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -59.42 dBc         | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -55.01 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -59.74 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -56.06 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -59.95 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.44 dBc         | ≤ -20 dBc | Pass |
| 802.11(b) 11 Mbps                                                                                                                                                      |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -61.45 dBc         | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -56.72 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -61.6 dBc          | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -57.48 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -60.98 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -56.07 dBc         | ≤ -20 dBc | Pass |
| 802.11(g) 6 Mbps                                                                                                                                                       |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -53.05 dBc         | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.91 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.92 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.3 dBc          | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.78 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -53.29 dBc         | ≤ -20 dBc | Pass |
| 802.11(g) 36 Mbps                                                                                                                                                      |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -52 dBc            | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.5 dBc          | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -59.36 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.92 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -59.4 dBc          | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.34 dBc         | ≤ -20 dBc | Pass |
| 802.11(g) 54 Mbps                                                                                                                                                      |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -54.81 dBc         | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.92 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -59.48 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -55.32 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.67 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.37 dBc         | ≤ -20 dBc | Pass |
| 802.11(n) MCS0                                                                                                                                                         |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -52.04 dBc         | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -55.55 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -59.7 dBc          | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.46 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.58 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -53.6 dBc          | ≤ -20 dBc | Pass |
| 802.11(n) MCS7                                                                                                                                                         |   |                                                                                              |                    |           |      |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -54.67 dBc         | ≤ -20 dBc | Pass |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.6 dBc          | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.59 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -55.14 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -59.36 dBc         | ≤ -20 dBc | Pass |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.76 dBc         | ≤ -20 dBc | Pass |
| 5725 MHz - 5850 MHz Band                                                                                                                                               |   |                                                                                              |                    |           |      |
| 802.11(a) 6 Mbps                                                                                                                                                       |   |                                                                                              |                    |           |      |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -49.38 dBc         | ≤ -20 dBc | Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -48.36 dBc         | ≤ -20 dBc | Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                              | -44.92 dBc         | ≤ -20 dBc | Pass |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                              | -35.93 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -52.79 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -49.13 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                              | -46.33 dBc         | ≤ -20 dBc | Pass |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                              | -36.83 dBc         | ≤ -20 dBc | Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | Fundamental                                                                                  | N/A                | N/A       | N/A  |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 30 MHz - 12.5 GHz                                                                            | -51.33 dBc         | ≤ -20 dBc | Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 12.5 GHz - 25 GHz                                                                            | -47.16 dBc         | ≤ -20 dBc | Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 25 GHz - 32 GHz                                                                              | -44.95 dBc         | ≤ -20 dBc | Pass |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 32 GHz - 40 GHz                                                                              | -34.72 dBc         | ≤ -20 dBc | Pass |

|                                   | Frequency Range   | Value      | Limit     | Result |
|-----------------------------------|-------------------|------------|-----------|--------|
| <b>802.11(a) 36 Mbps</b>          |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -49.84 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -48.12 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -46.06 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -35.96 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -51.23 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -48.98 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -46.32 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -37.09 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -51.51 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -48.07 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -44.12 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -35.08 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(a) 54 Mbps</b>          |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -49.47 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -49.05 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -45.52 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -36.69 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -50.86 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -48.66 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -46.22 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -37.05 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -51.48 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -47.53 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -43.8 dBc  | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -35.14 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS0 - UNII</b>      |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -50.8 dBc  | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -48.12 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -45.43 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -36.63 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -51.36 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -49.08 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -46.18 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -36.47 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -52.86 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -47.77 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -45.37 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -35.19 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS7 - UNII</b>      |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -50.56 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -48.44 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -45.97 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -35.28 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -51.76 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -48.09 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -45.92 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -36.58 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -50.18 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -48.27 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -44.4 dBc  | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -36.14 dBc | ≤ -20 dBc | Pass   |
| <b>40 MHz</b>                     |                   |            |           |        |
| <b>2400 MHz - 2483.5 MHz Band</b> |                   |            |           |        |
| <b>802.11(n) MCS0</b>             |                   |            |           |        |
| Low Channel 1/5, 2422 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 1/5, 2422 MHz         | 30 MHz - 12.5 GHz | -44.43 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1/5, 2422 MHz         | 12.5 GHz - 25 GHz | -51.83 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 4/8, 2437 MHz         | 30 MHz - 12.5 GHz | -56.36 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | 12.5 GHz - 25 GHz | -51.66 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 7/11, 2452 MHz       | 30 MHz - 12.5 GHz | -53.22 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | 12.5 GHz - 25 GHz | -52.38 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS7</b>             |                   |            |           |        |
| Low Channel 1/5, 2422 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 1/5, 2422 MHz         | 30 MHz - 12.5 GHz | -44.62 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1/5, 2422 MHz         | 12.5 GHz - 25 GHz | -52.32 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 4/8, 2437 MHz         | 30 MHz - 12.5 GHz | -53.76 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | 12.5 GHz - 25 GHz | -51.54 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 7/11, 2452 MHz       | 30 MHz - 12.5 GHz | -51.74 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | 12.5 GHz - 25 GHz | -52.1 dBc  | ≤ -20 dBc | Pass   |
| <b>5725 MHz - 5850 MHz Band</b>   |                   |            |           |        |
| <b>802.11(n) MCS0 - UNII</b>      |                   |            |           |        |
| Low Channel 149/153, 5755 MHz     | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149/153, 5755 MHz     | 30 MHz - 12.5 GHz | -46.88 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 12.5 GHz - 25 GHz | -45.82 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 25 GHz - 32 GHz   | -42.86 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 32 GHz - 40 GHz   | -33.91 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 157/161, 5795 MHz    | 30 MHz - 12.5 GHz | -47.38 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 12.5 GHz - 25 GHz | -46.44 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 25 GHz - 32 GHz   | -43.43 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 32 GHz - 40 GHz   | -33.59 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS7 - UNII</b>      |                   |            |           |        |
| Low Channel 149/153, 5755 MHz     | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149/153, 5755 MHz     | 30 MHz - 12.5 GHz | -48.28 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 12.5 GHz - 25 GHz | -44.86 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 25 GHz - 32 GHz   | -42.75 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 32 GHz - 40 GHz   | -33.49 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 157/161, 5795 MHz    | 30 MHz - 12.5 GHz | -49.76 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 12.5 GHz - 25 GHz | -45.67 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 25 GHz - 32 GHz   | -42.76 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 32 GHz - 40 GHz   | -33.66 dBc | ≤ -20 dBc | Pass   |

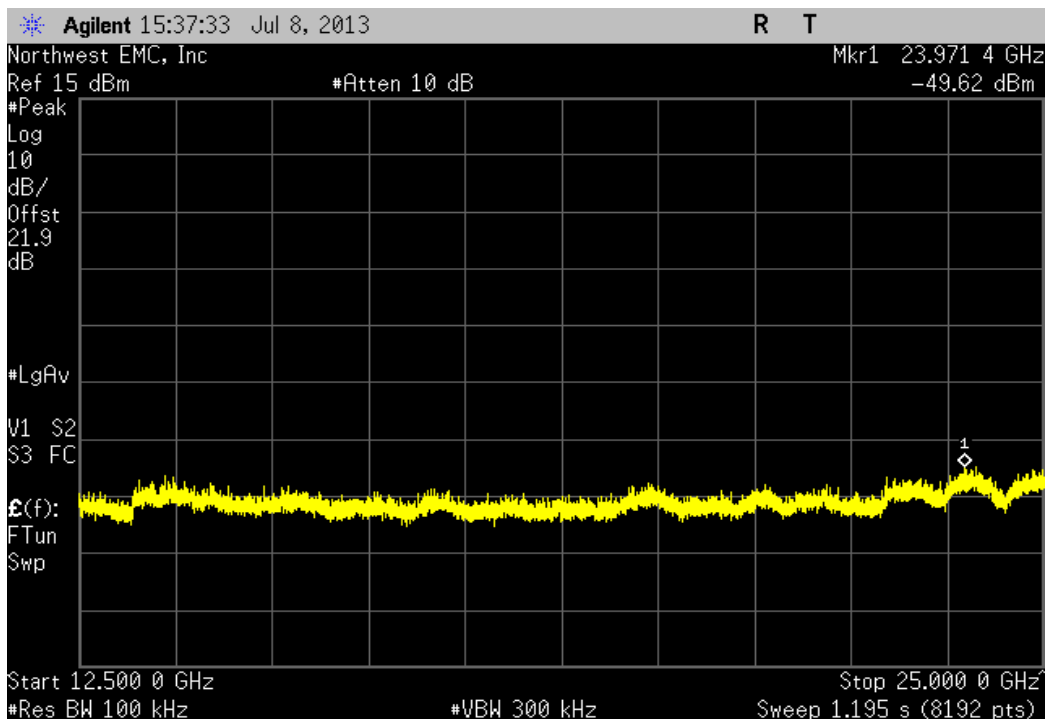
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz |       |       |       |        |
|-------------------------------------------------------------------------------|-------|-------|-------|--------|
| Frequency                                                                     | Range | Value | Limit | Result |
| Fundamental                                                                   |       | N/A   | N/A   | N/A    |



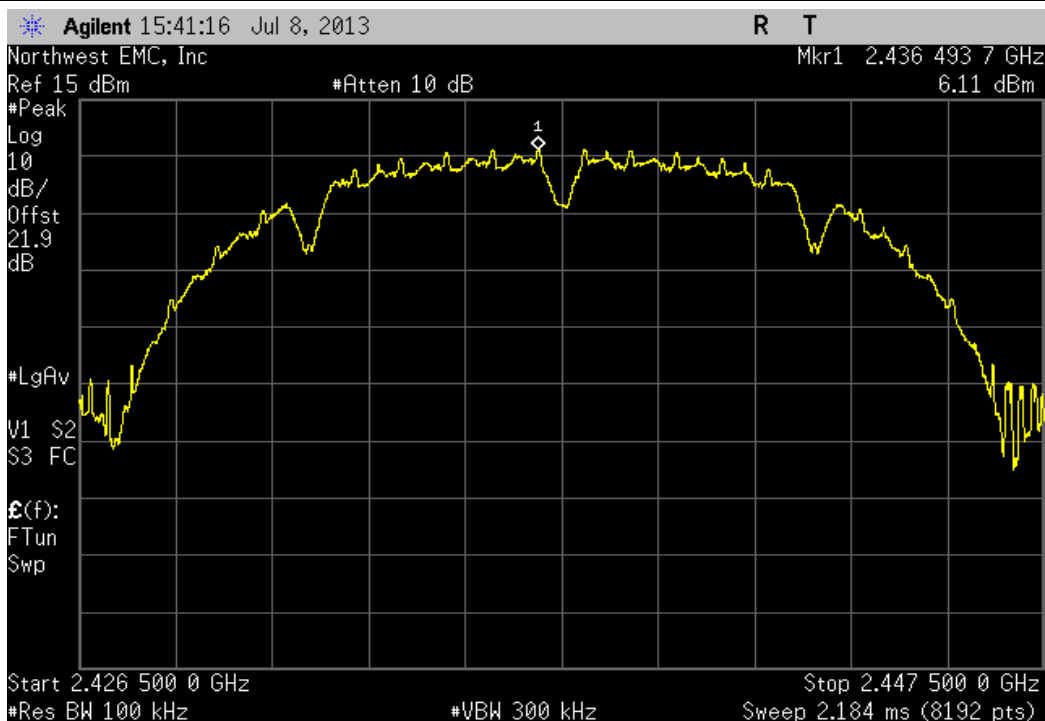
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz |       |            |           |        |
|-------------------------------------------------------------------------------|-------|------------|-----------|--------|
| Frequency                                                                     | Range | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |       | -59.42 dBc | ≤ -20 dBc | Pass   |



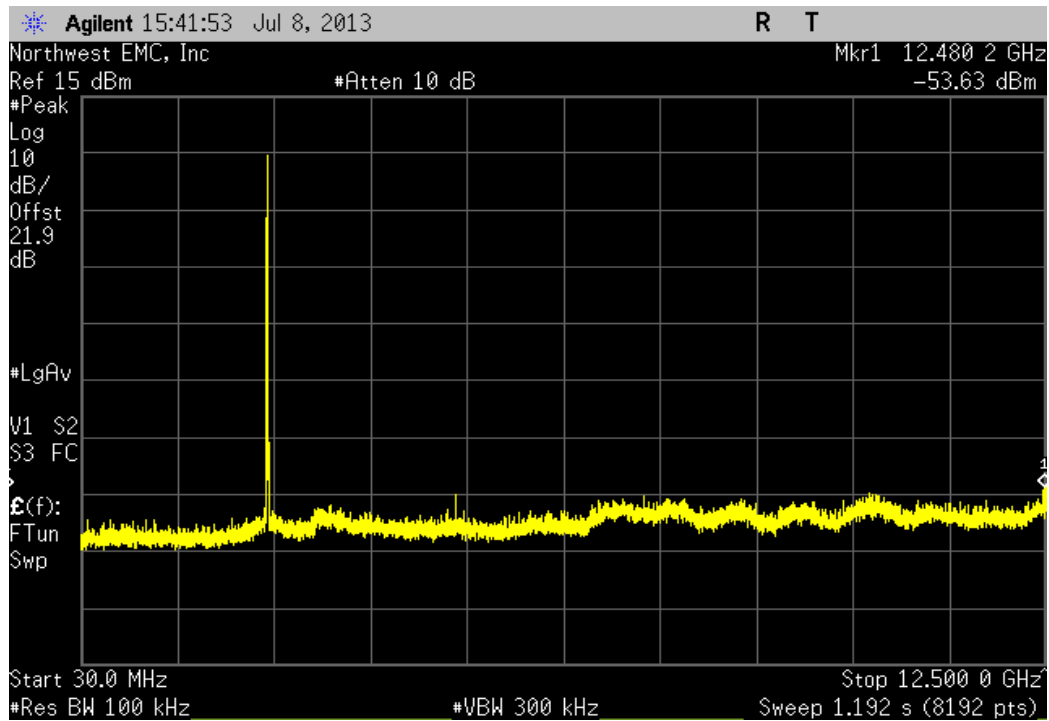
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz |            |           |        |
|-------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                               | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             | -55.01 dBc | ≤ -20 dBc | Pass   |



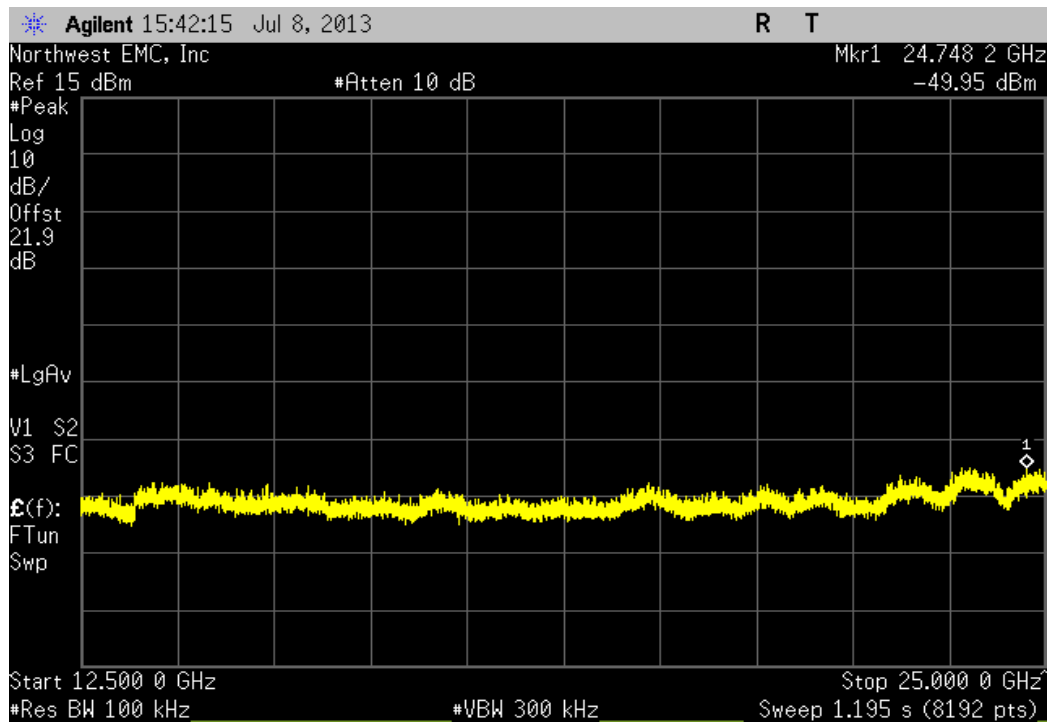
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz |       |       |        |
|-------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                               | Value | Limit | Result |
| Fundamental                                                                   | N/A   | N/A   | N/A    |



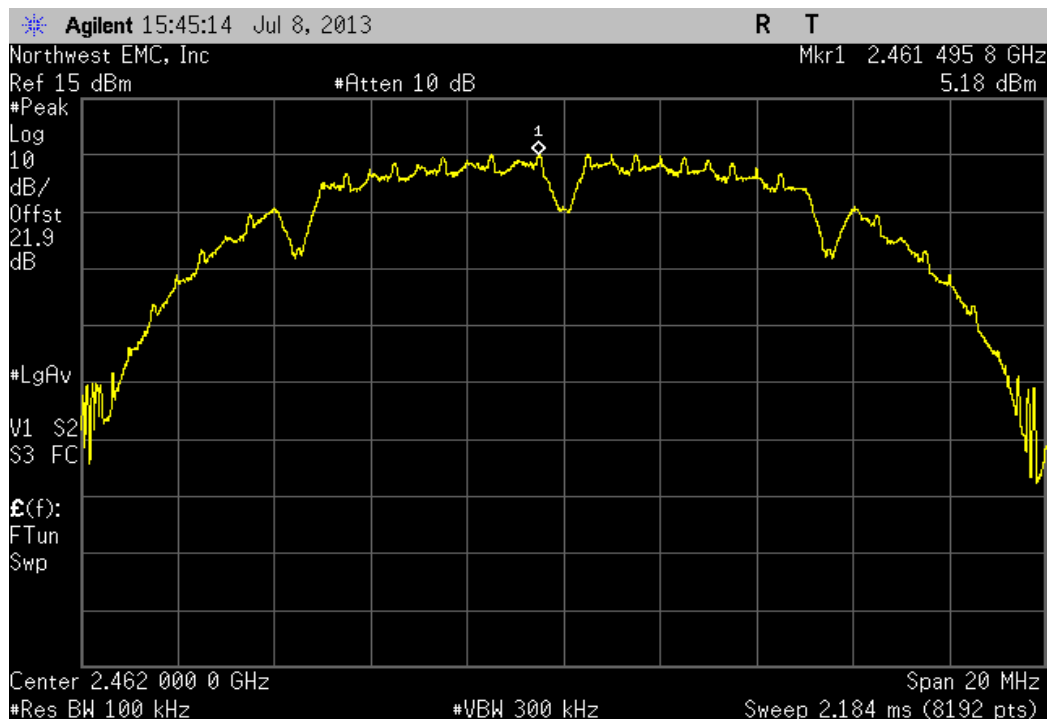
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -59.74 dBc | ≤ -20 dBc | Pass   |  |



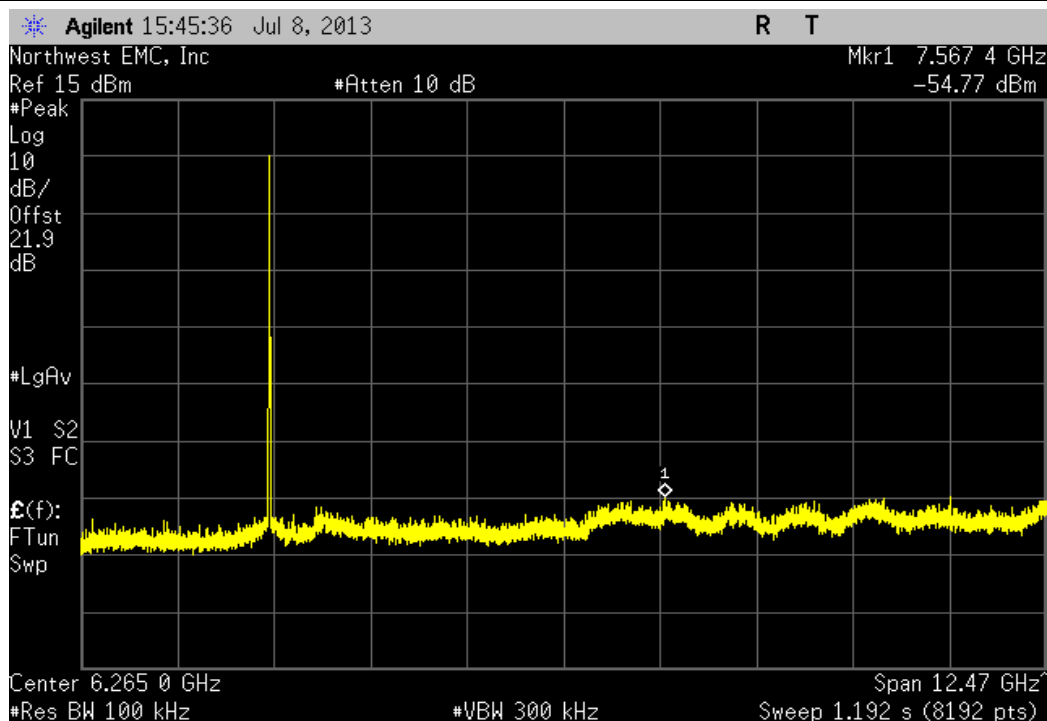
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -56.06 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |

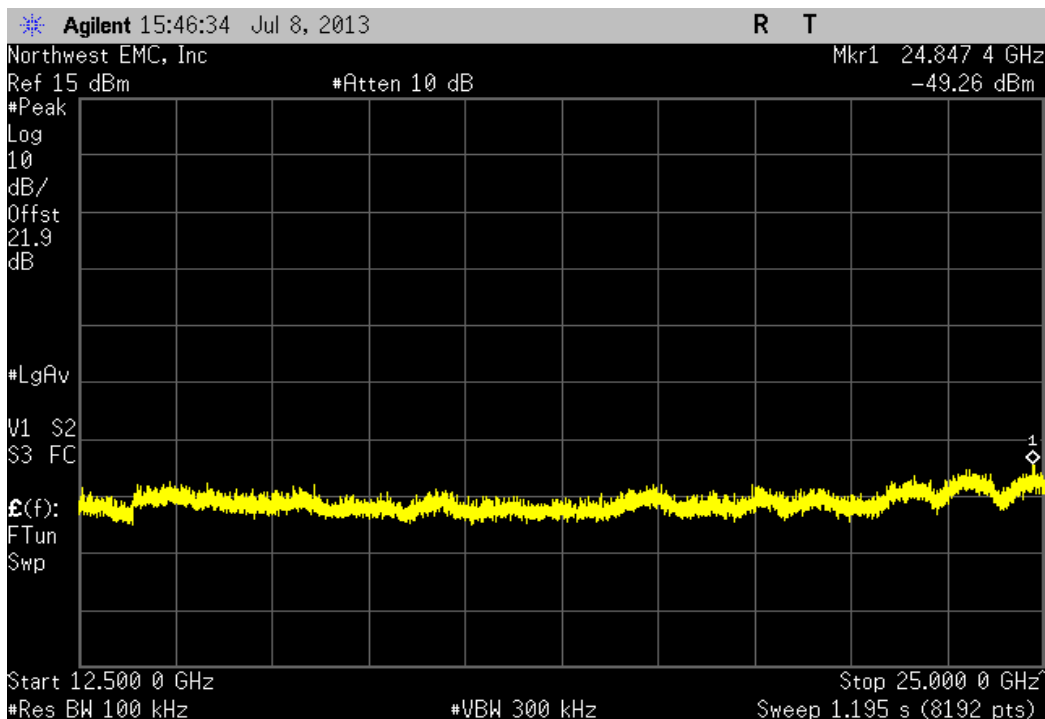


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  | -59.95 dBc | ≤ -20 dBc | Pass   |

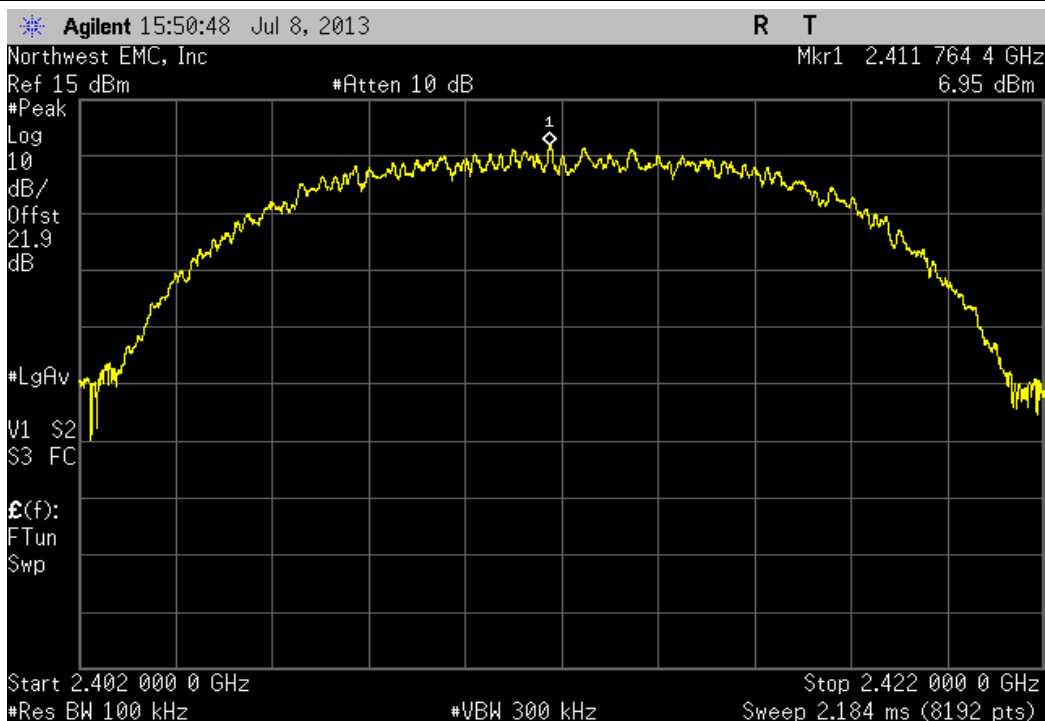




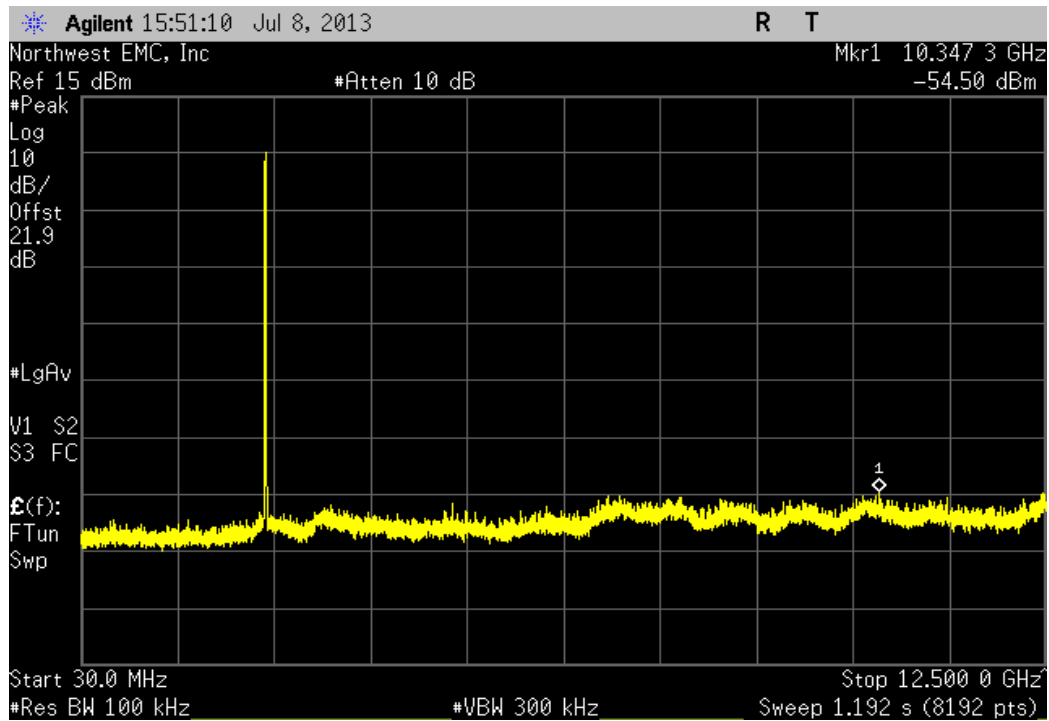
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                               |  | -54.44 dBc | ≤ -20 dBc | Pass   |



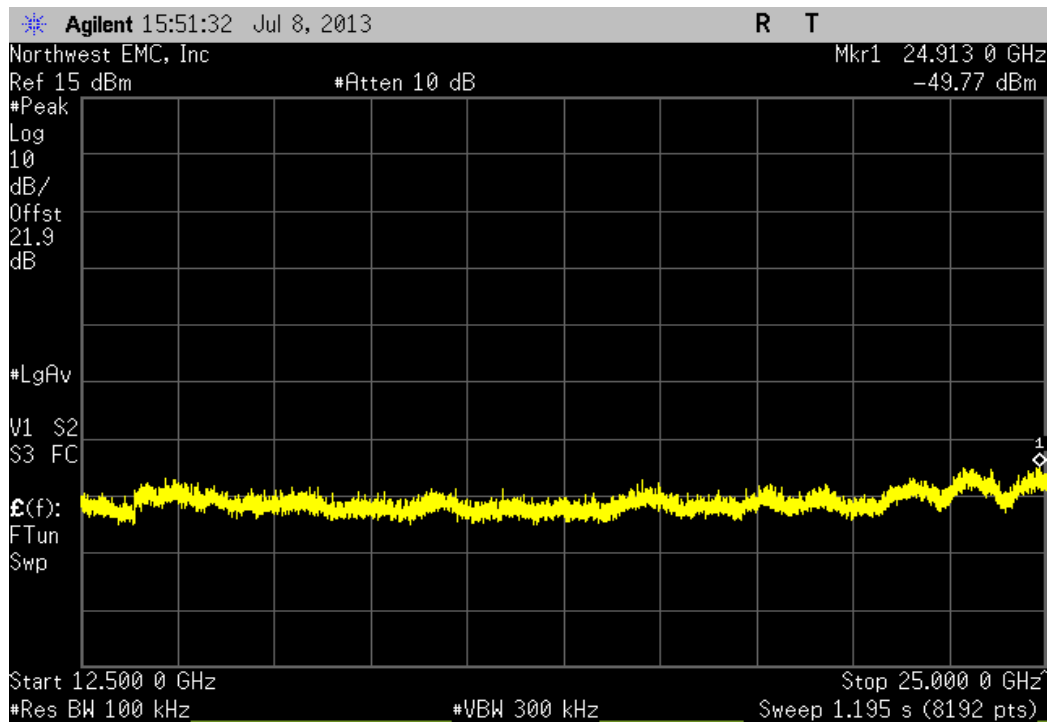
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



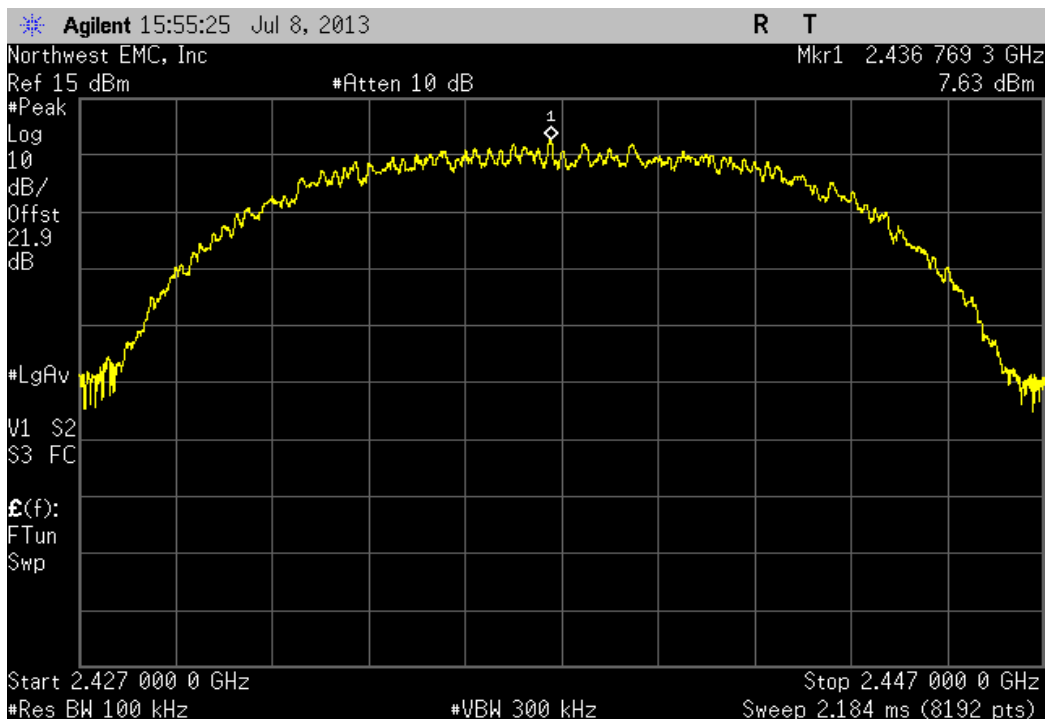
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -61.45 dBc | ≤ -20 dBc | Pass   |  |



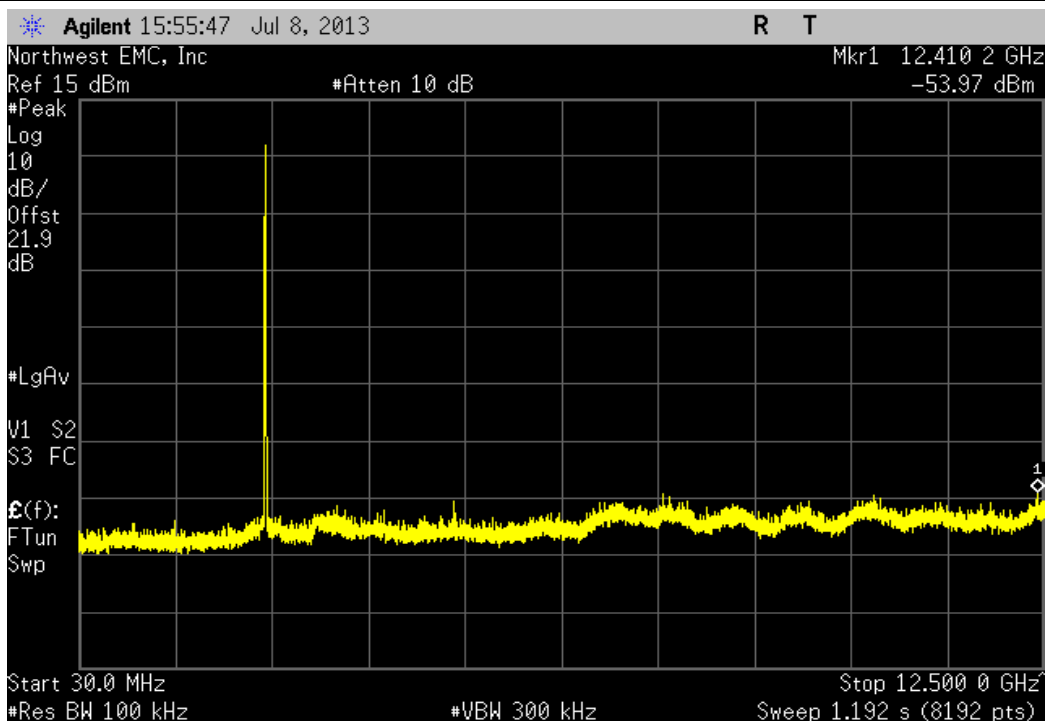
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -56.72 dBc | ≤ -20 dBc | Pass   |  |



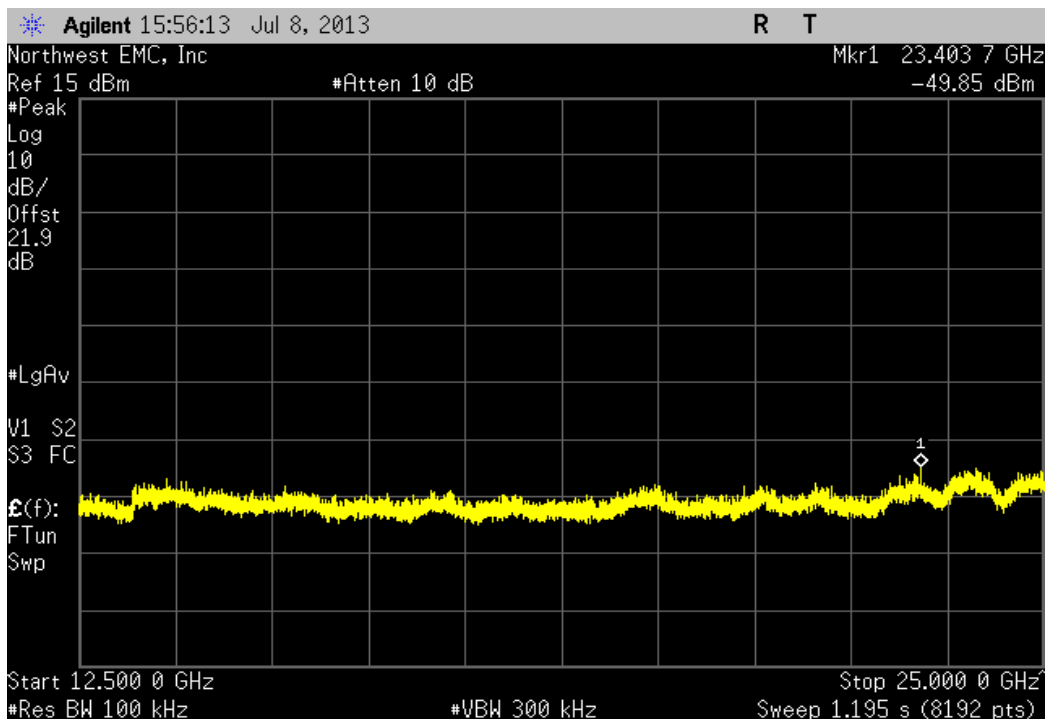
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



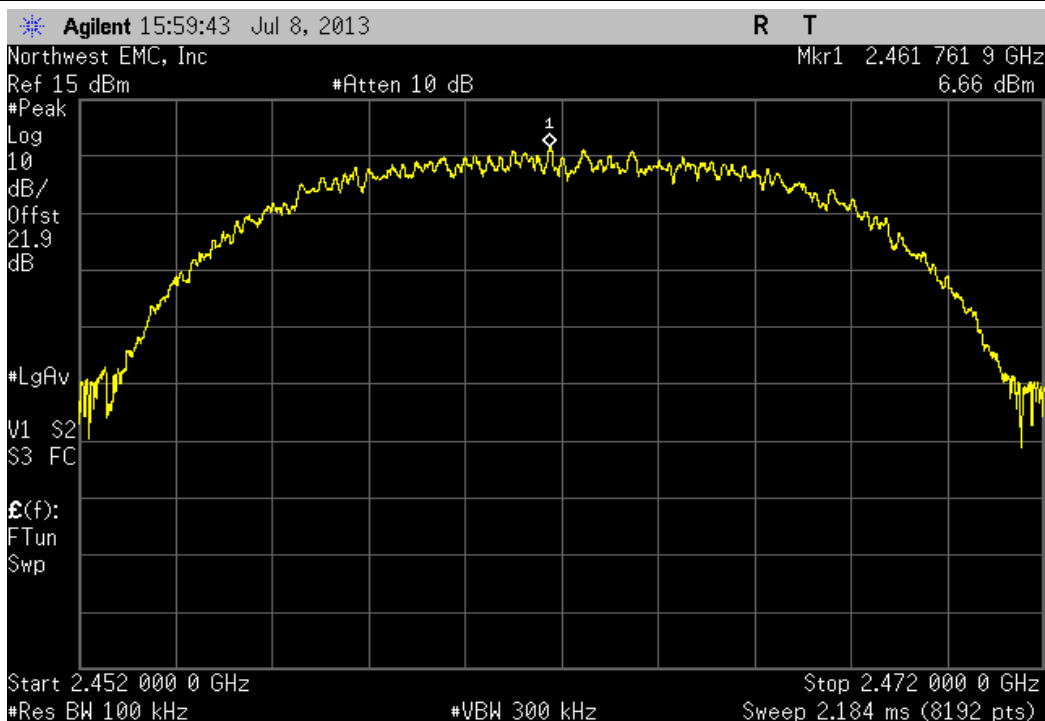
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz |  |           |           |        |
|--------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  | -61.6 dBc | ≤ -20 dBc | Pass   |



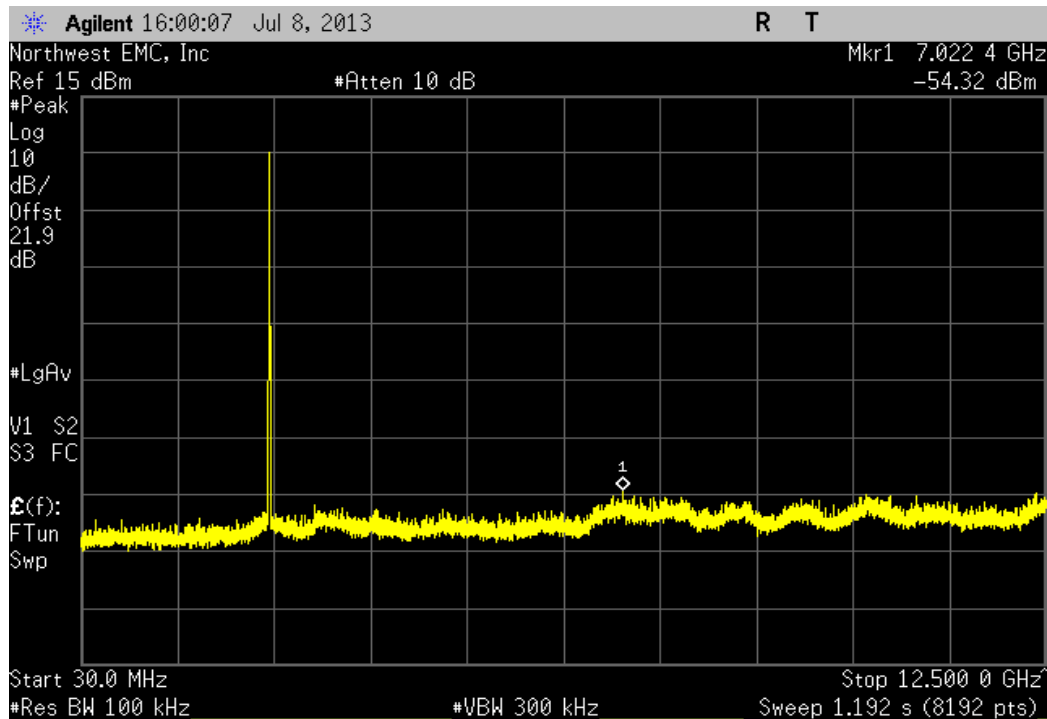
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                              |  | -57.48 dBc | ≤ -20 dBc | Pass   |



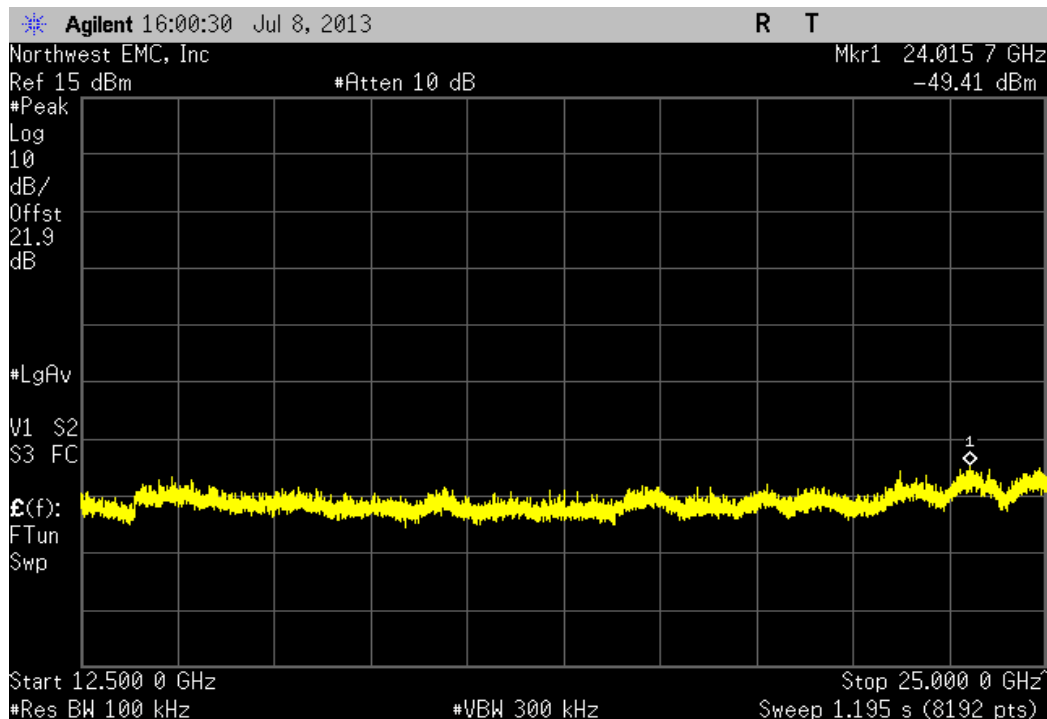
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz |  |       |       |        |
|----------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                  |  | Value | Limit | Result |
| Fundamental                                                                      |  | N/A   | N/A   | N/A    |



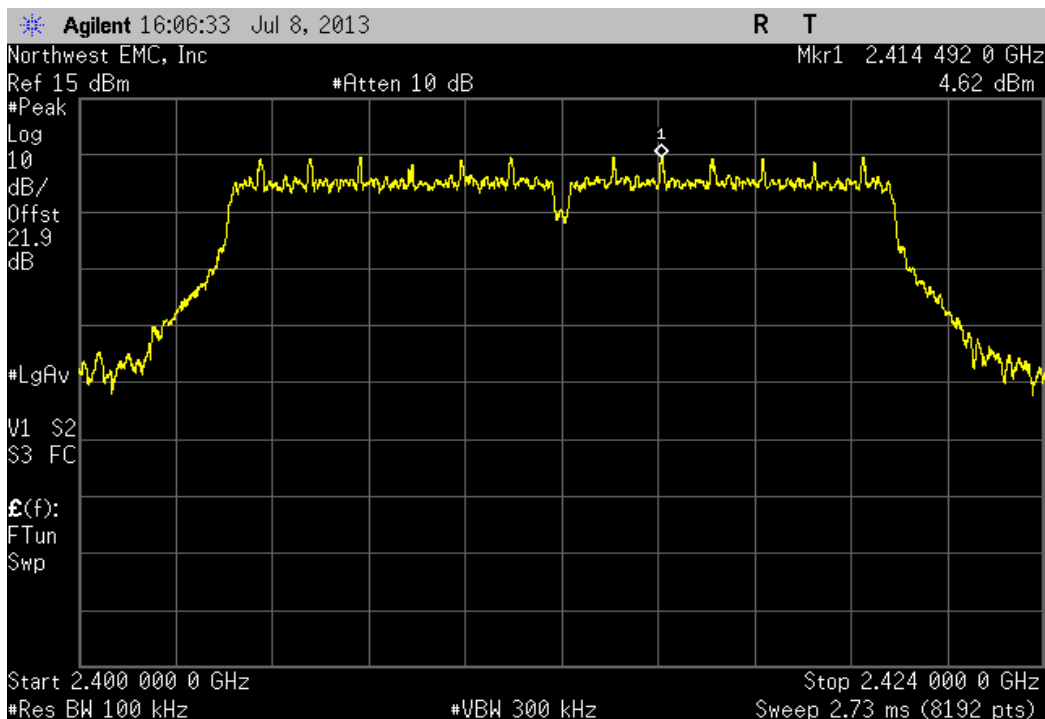
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                | -60.98 dBc | ≤ -20 dBc | Pass   |  |



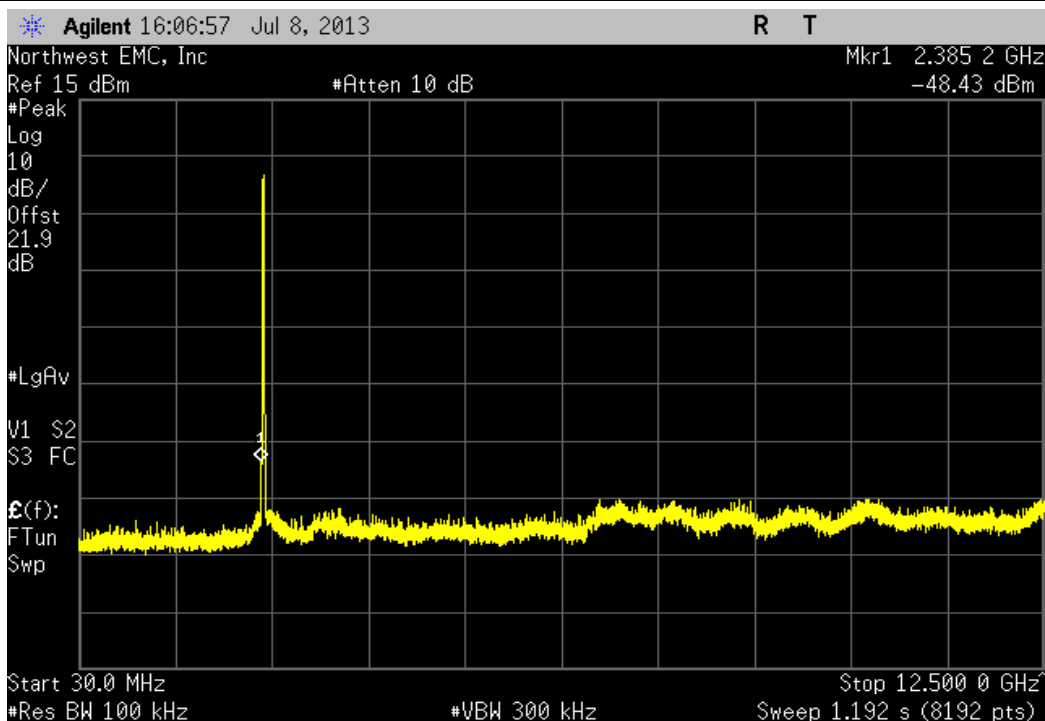
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                | -56.07 dBc | ≤ -20 dBc | Pass   |  |



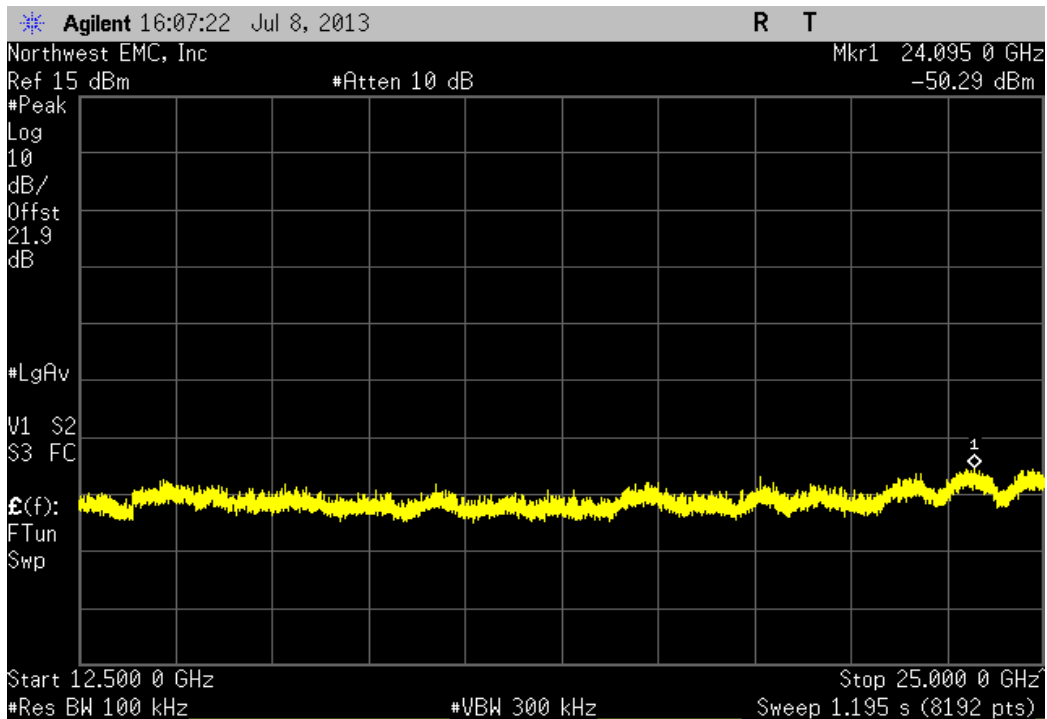
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



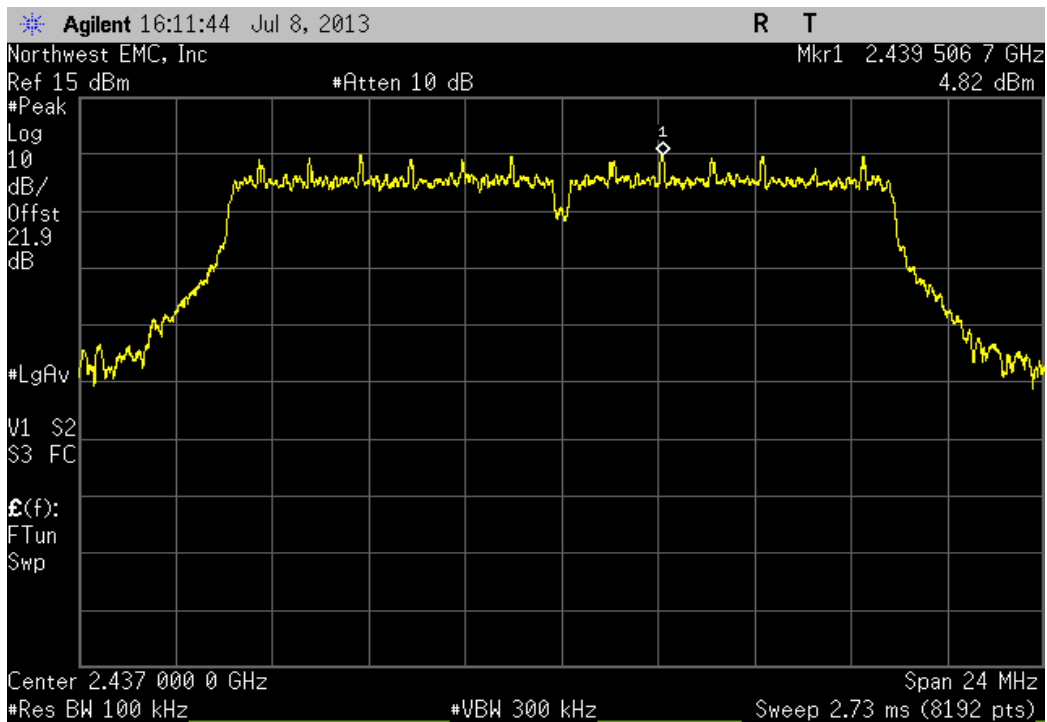
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -53.05 dBc | ≤ -20 dBc | Pass   |



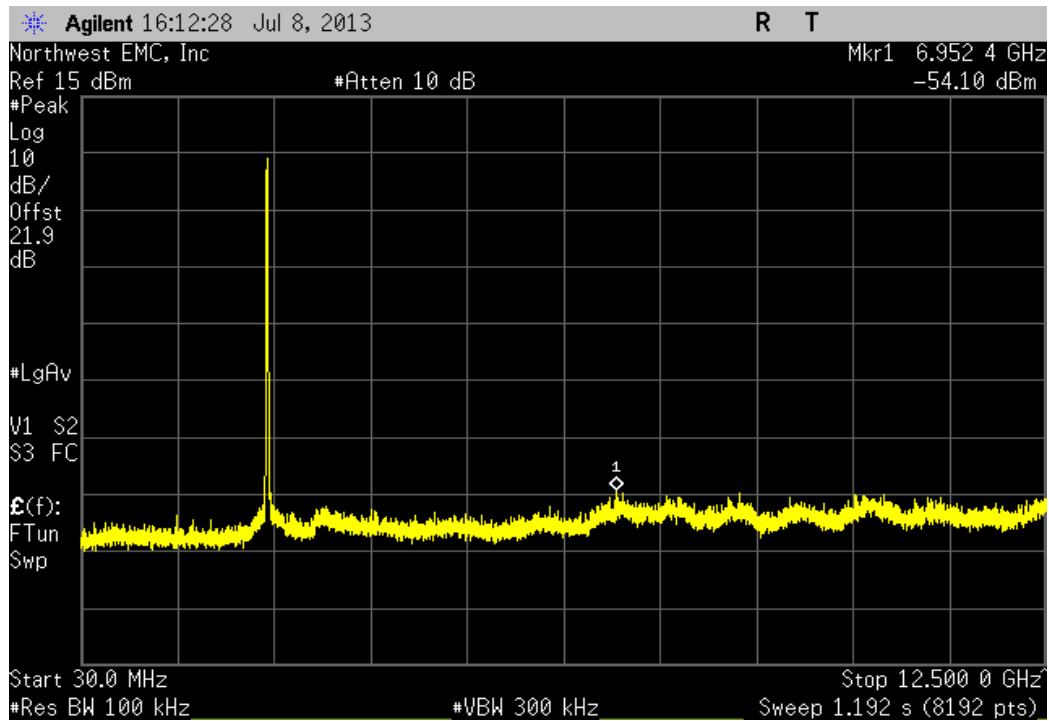
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -54.91 dBc | ≤ -20 dBc | Pass   |



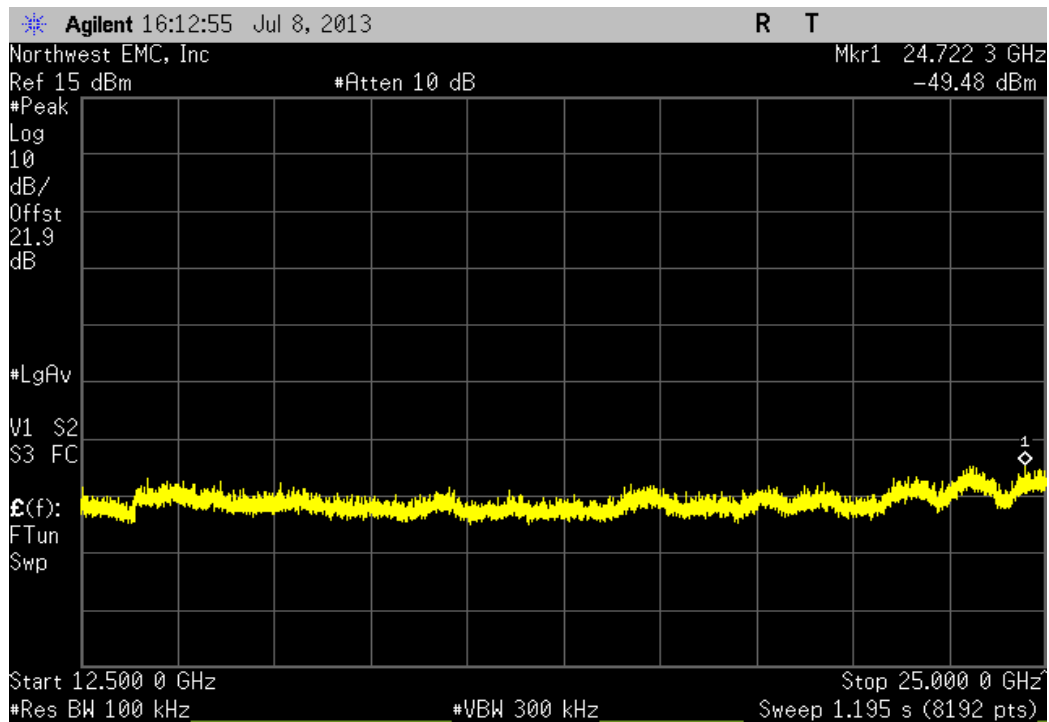
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -58.92 dBc | ≤ -20 dBc | Pass   |  |

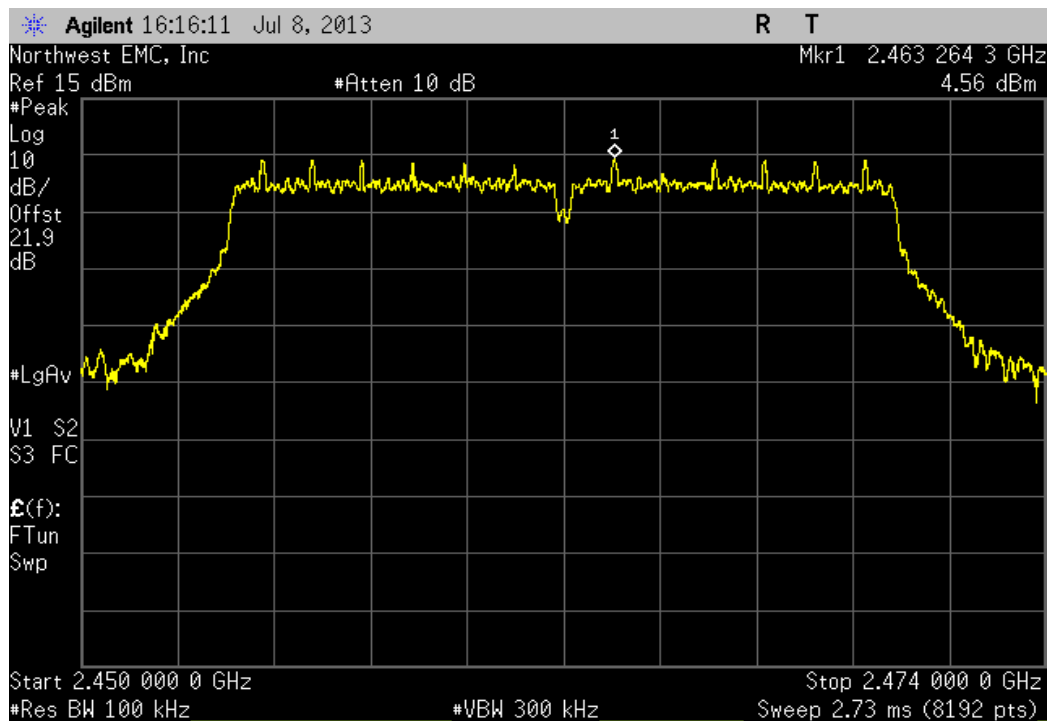


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz |           |           |        |  |
|-------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                               | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -54.3 dBc | ≤ -20 dBc | Pass   |  |

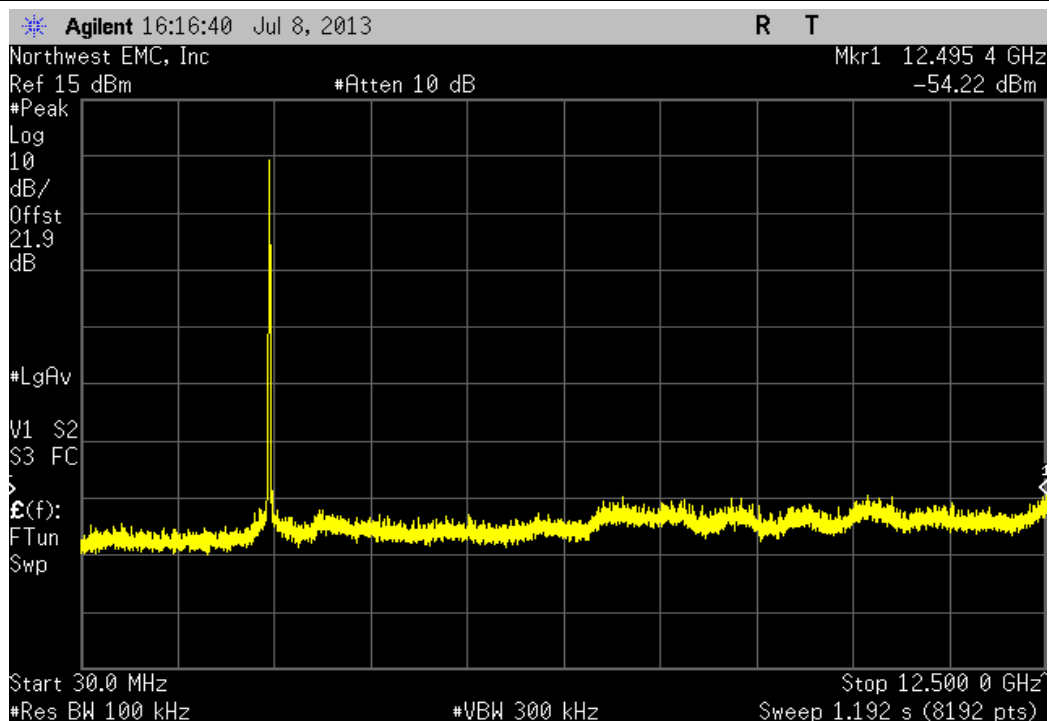




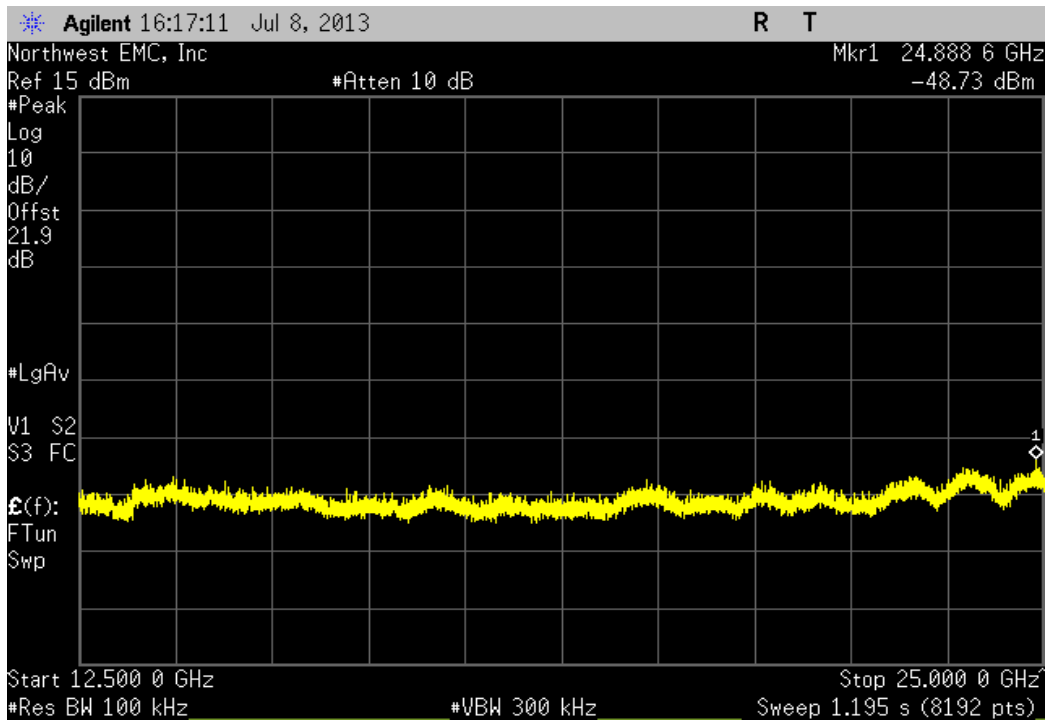
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                 |  |  |  | Value | Limit | Result |
| Fundamental                                                                     |  |  |  | N/A   | N/A   | N/A    |



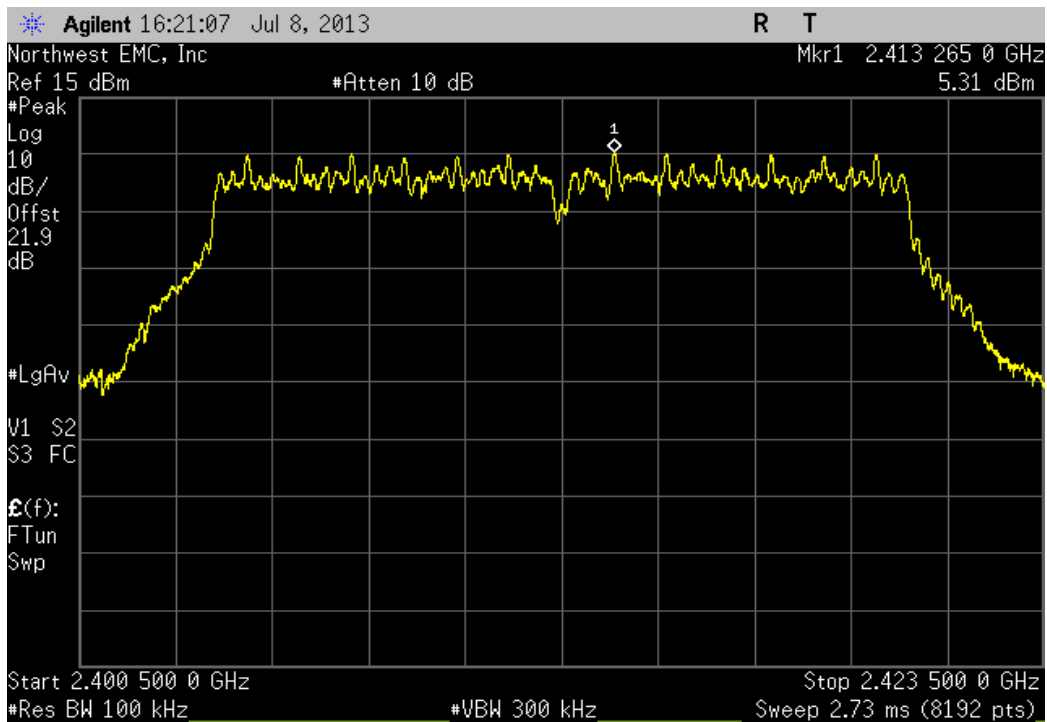
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz |  |  |  |            |           |        |
|---------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                 |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  |  |  | -58.78 dBc | ≤ -20 dBc | Pass   |



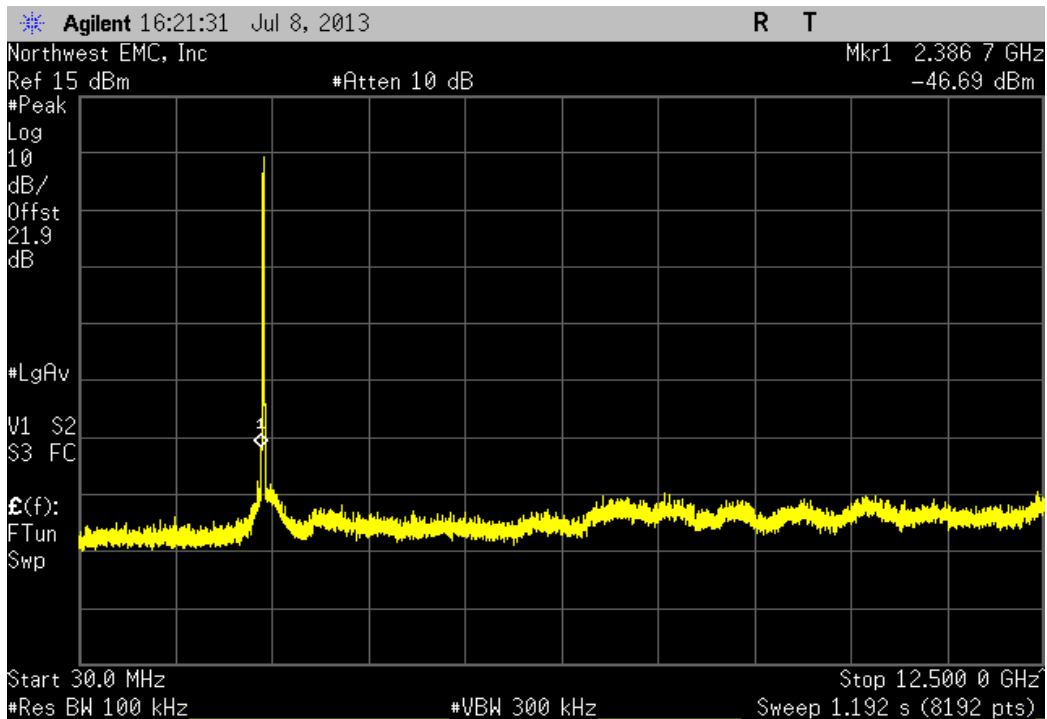
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                               |  | -53.29 dBc | ≤ -20 dBc | Pass   |



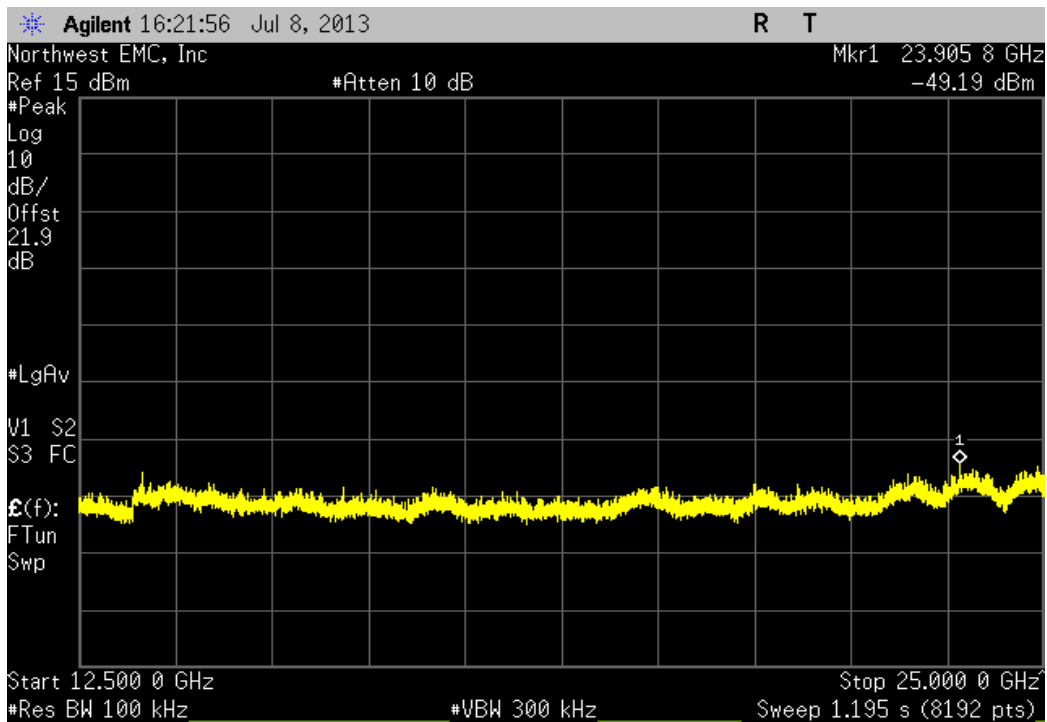
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



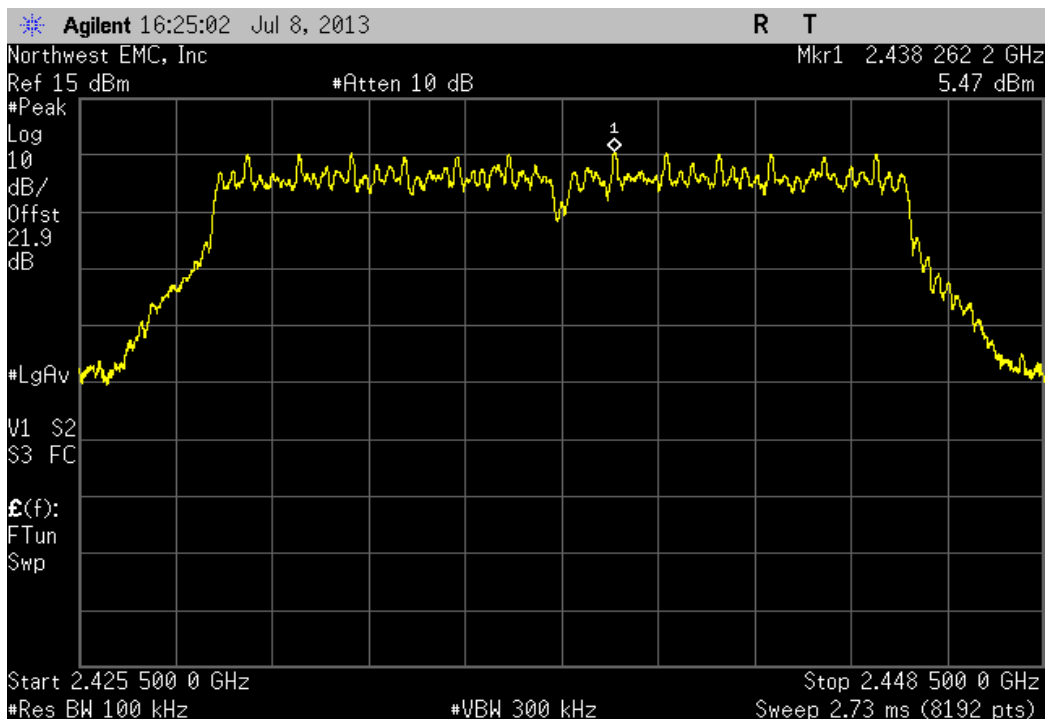
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz |         |           |        |  |
|--------------------------------------------------------------------------------|---------|-----------|--------|--|
| Frequency Range                                                                | Value   | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -52 dBc | ≤ -20 dBc | Pass   |  |



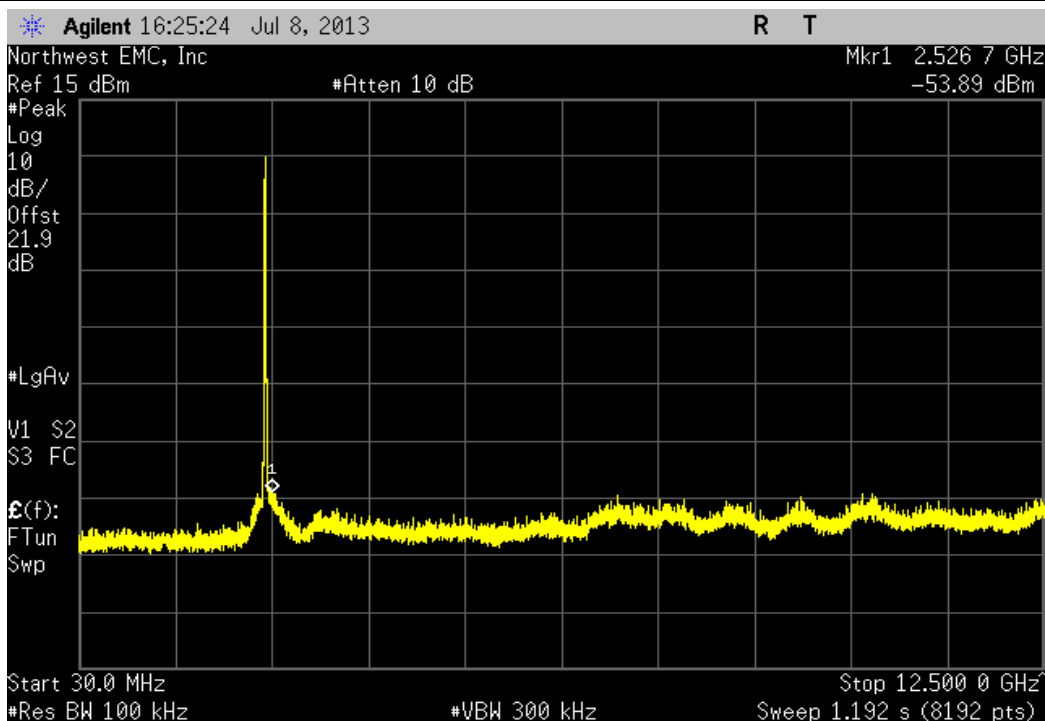
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz |           |           |        |  |
|--------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -54.5 dBc | ≤ -20 dBc | Pass   |  |



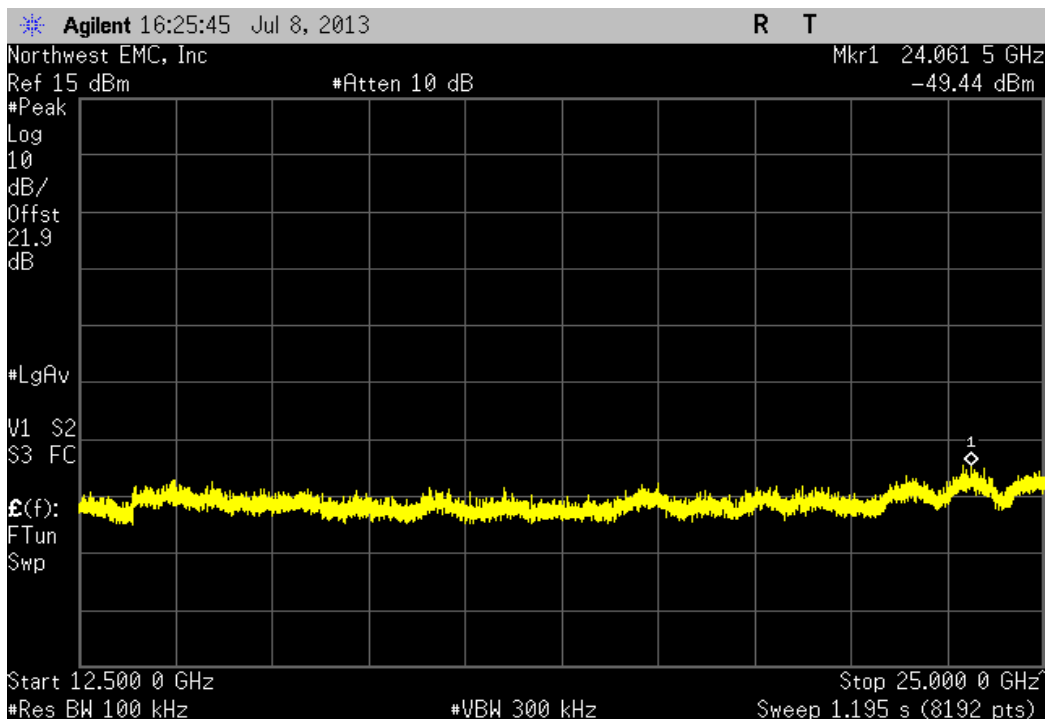
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



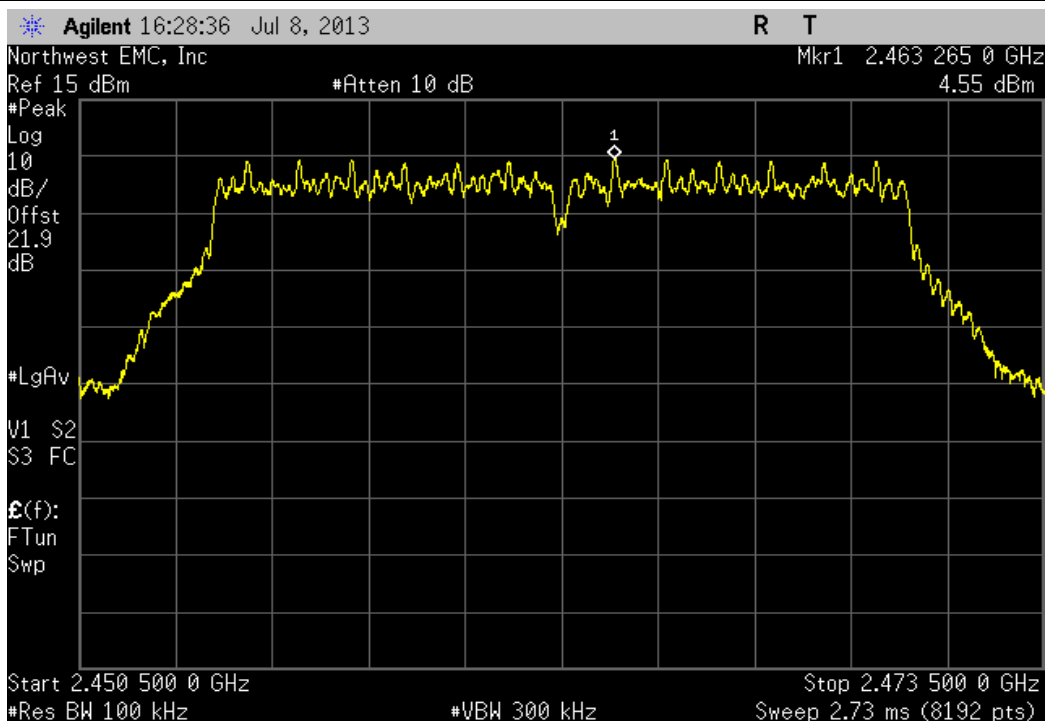
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  | -59.36 dBc | ≤ -20 dBc | Pass   |



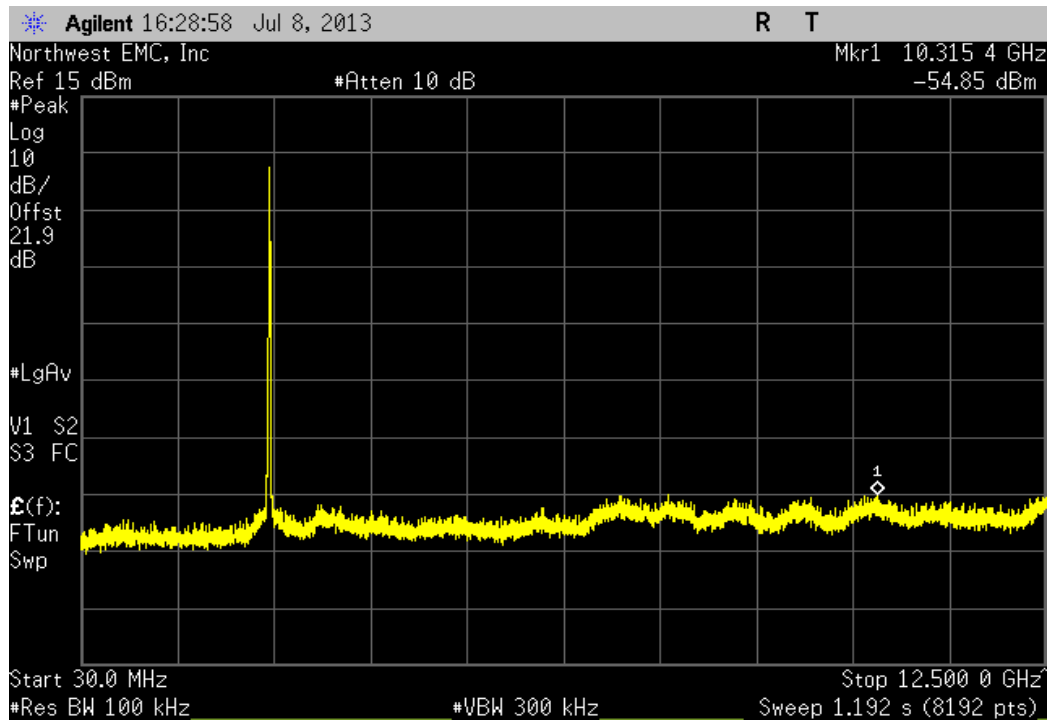
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -54.92 dBc | ≤ -20 dBc | Pass   |  |



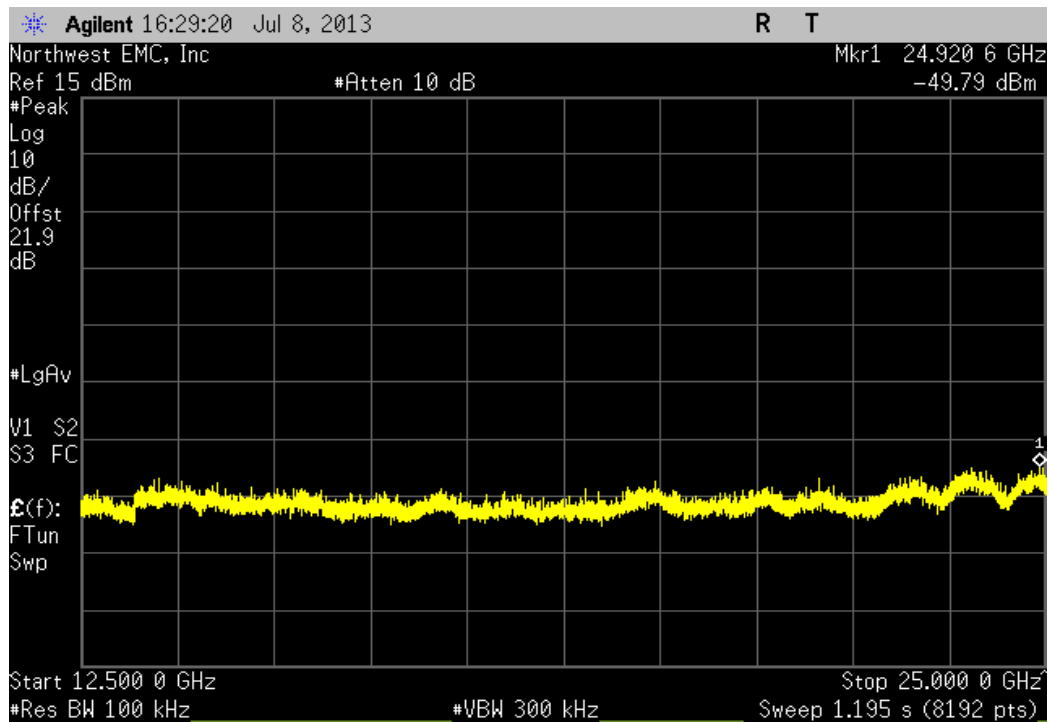
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz |       |       |        |  |
|----------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                  | Value | Limit | Result |  |
| Fundamental                                                                      | N/A   | N/A   | N/A    |  |



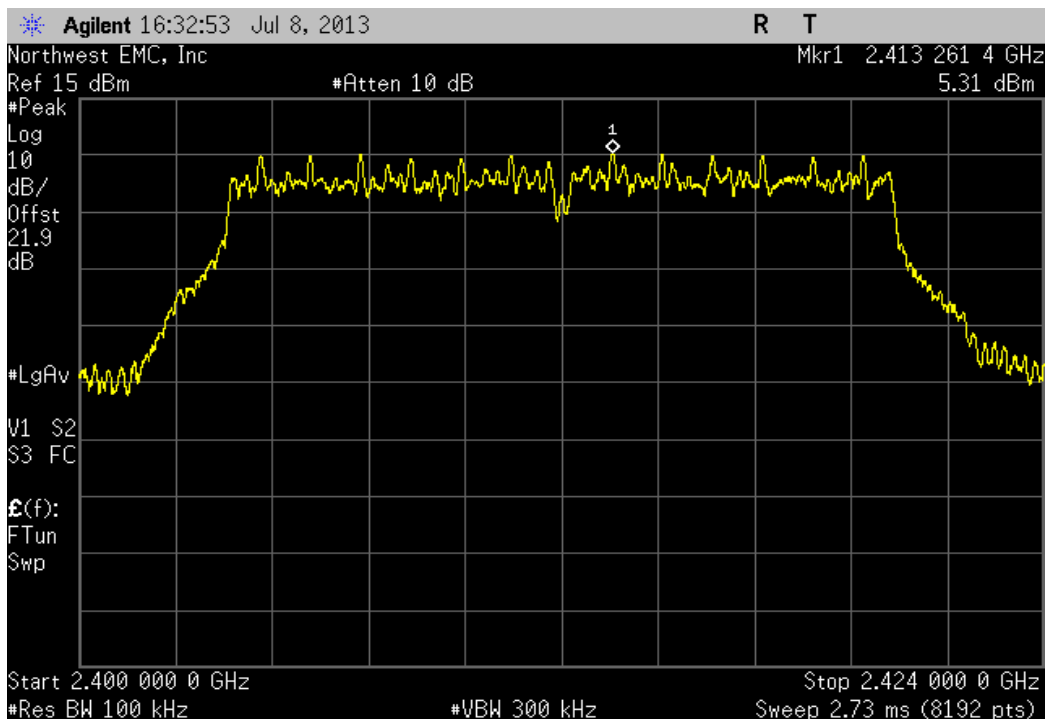
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz |           |           |        |  |
|----------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                  | Value     | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                | -59.4 dBc | ≤ -20 dBc | Pass   |  |



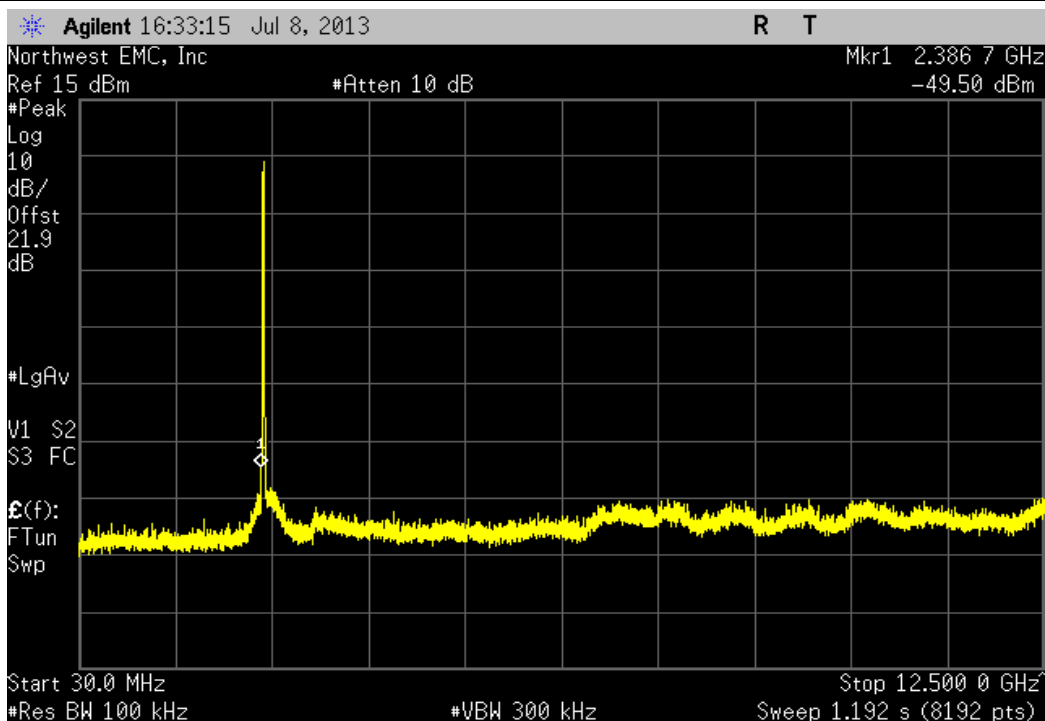
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                | -54.34 dBc | ≤ -20 dBc | Pass   |  |



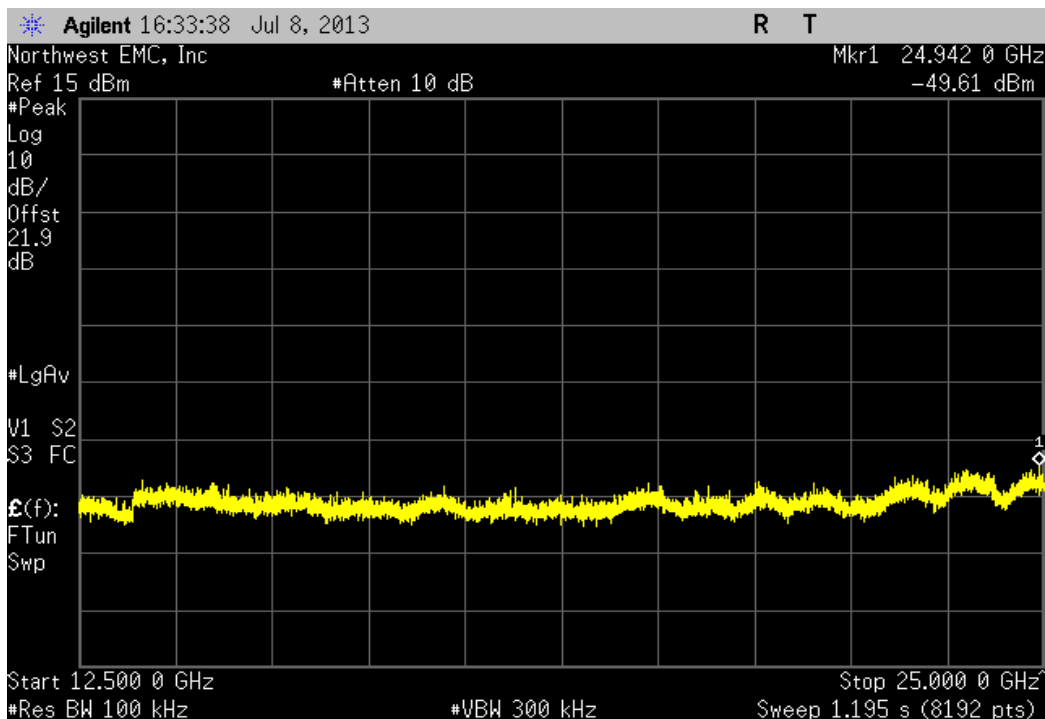
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz |  |  |  |       |       |        |
|--------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                |  |  |  | Value | Limit | Result |
| Fundamental                                                                    |  |  |  | N/A   | N/A   | N/A    |



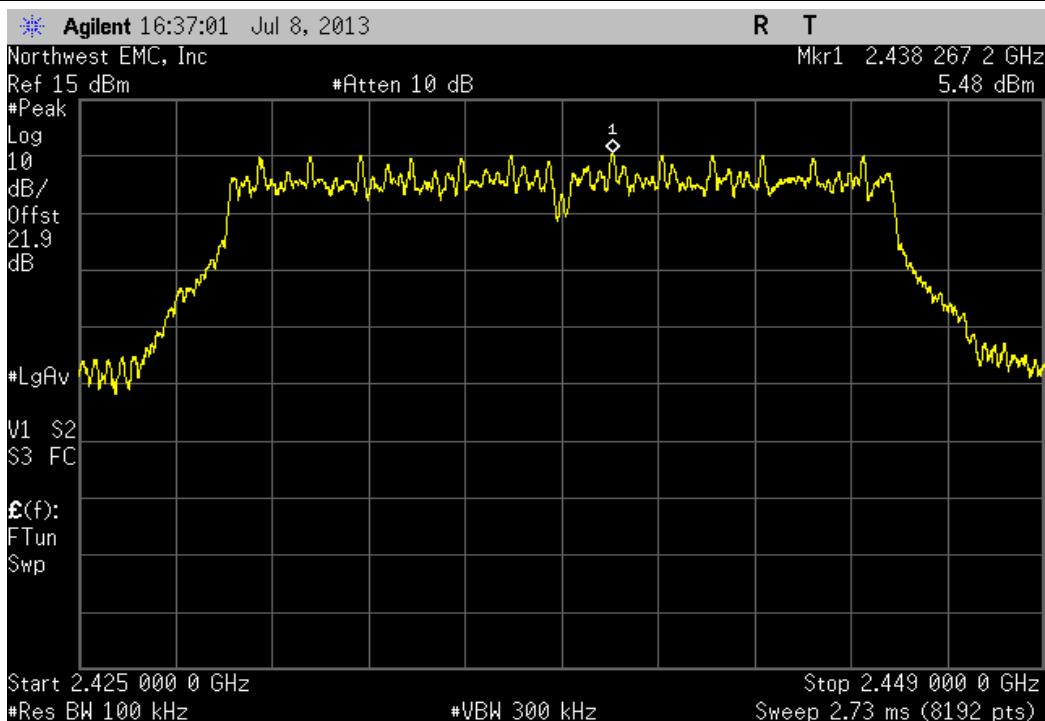
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz |  |  |  |            |           |        |
|--------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  |  |  | -54.81 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -54.92 dBc | ≤ -20 dBc | Pass   |  |

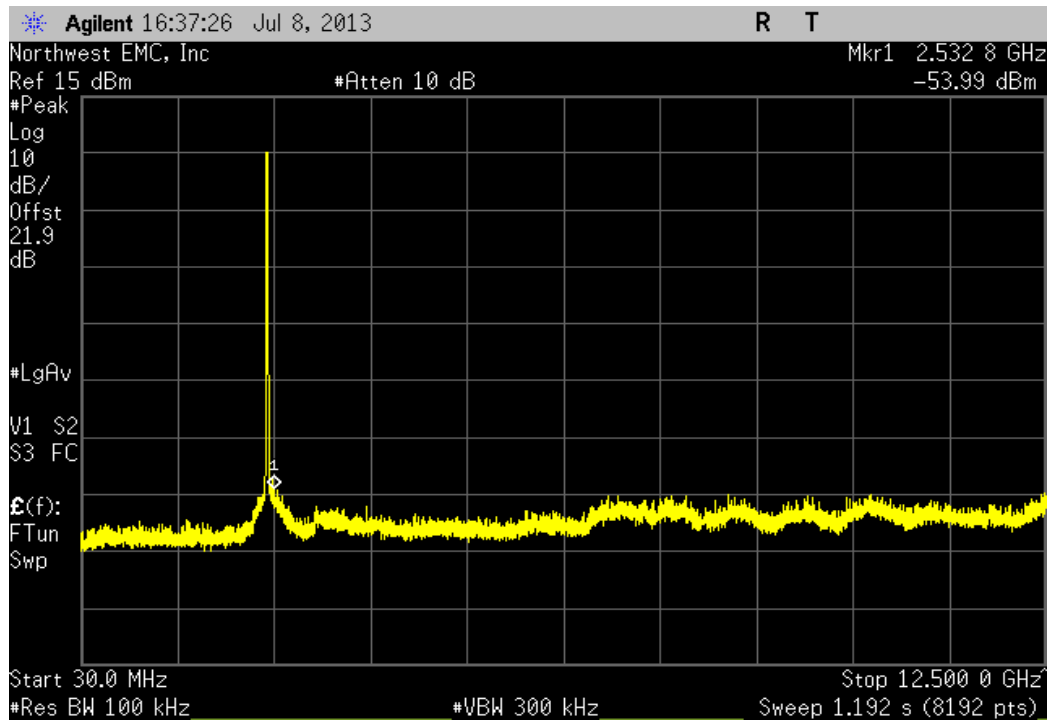


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz |       |       |        |  |
|--------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                | Value | Limit | Result |  |
| Fundamental                                                                    | N/A   | N/A   | N/A    |  |

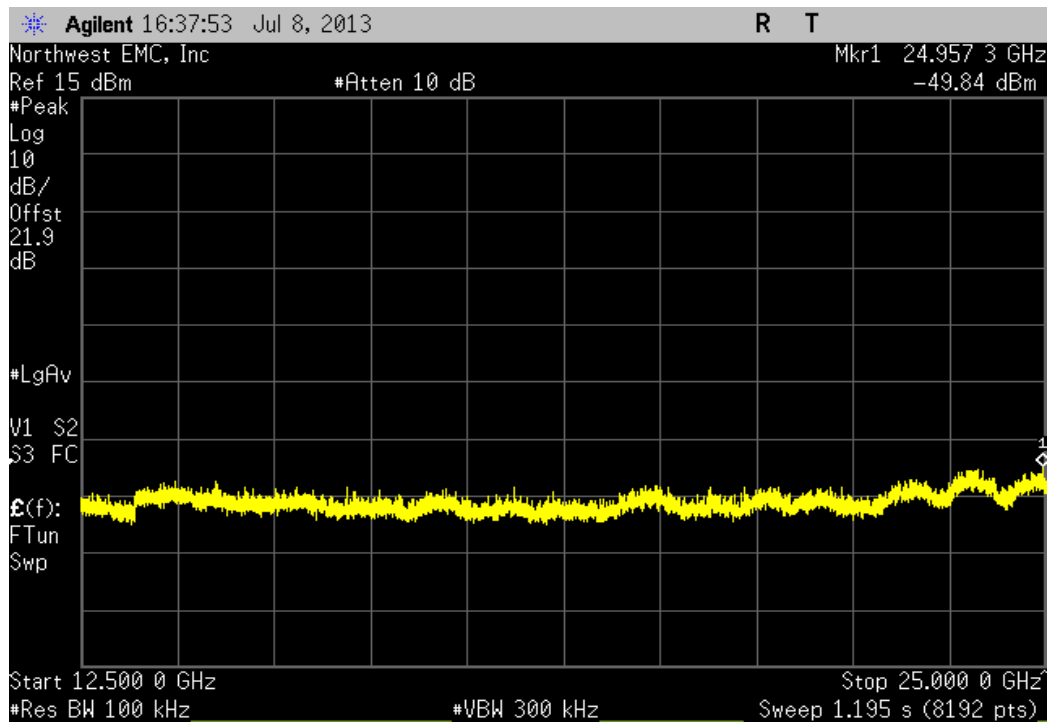




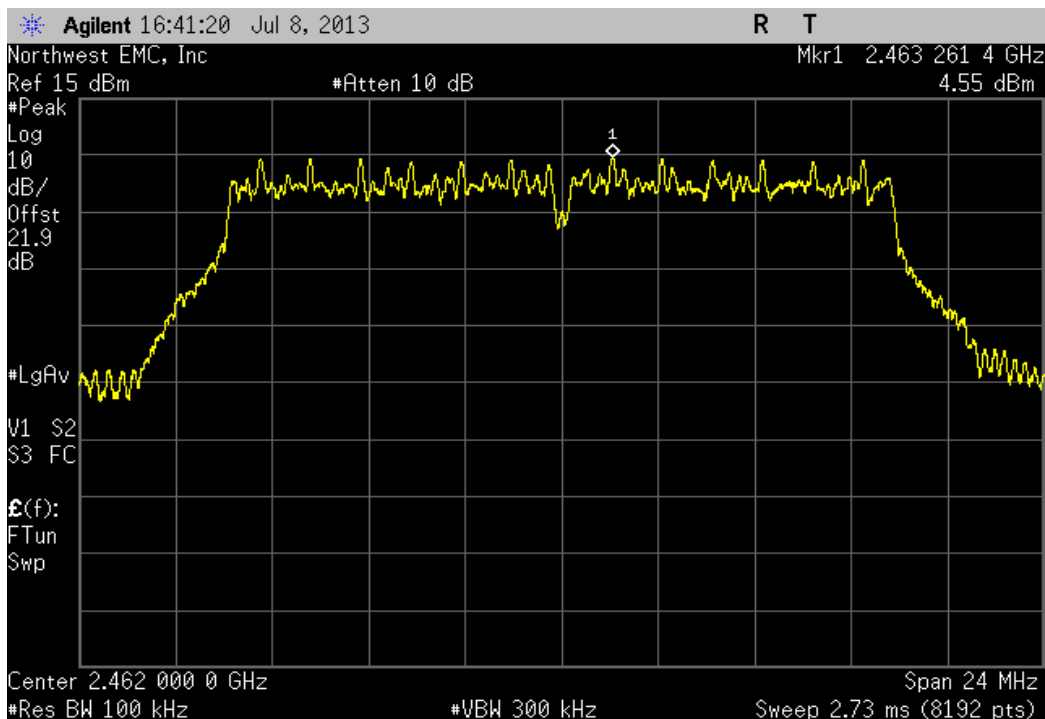
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -59.48 dBc | ≤ -20 dBc | Pass   |  |



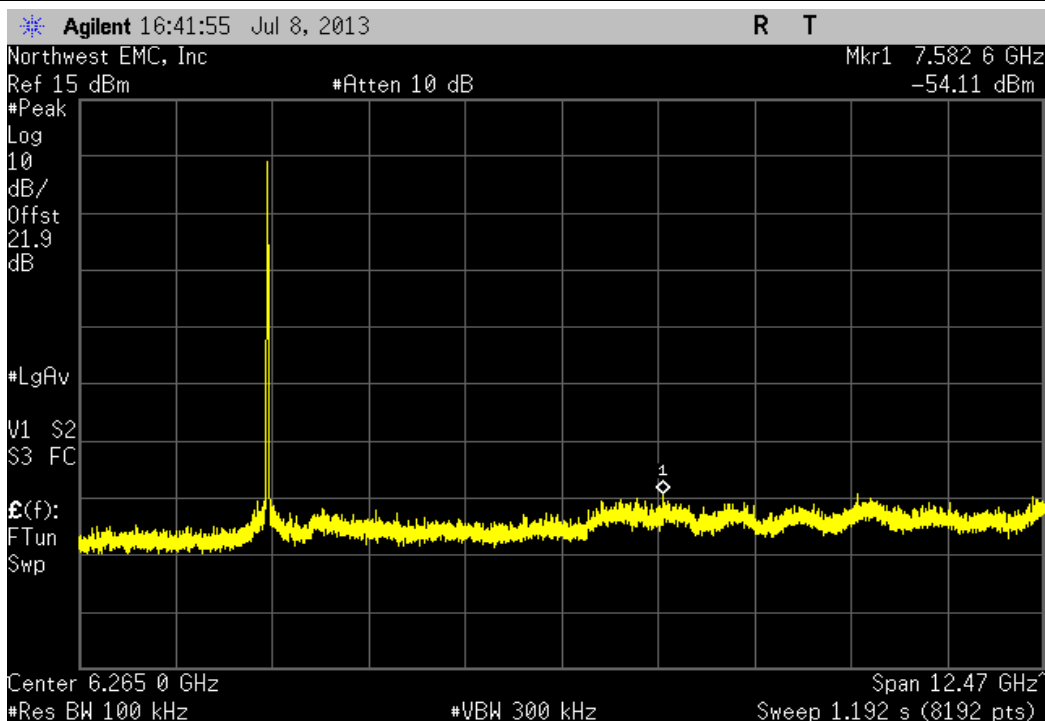
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -55.32 dBc | ≤ -20 dBc | Pass   |  |



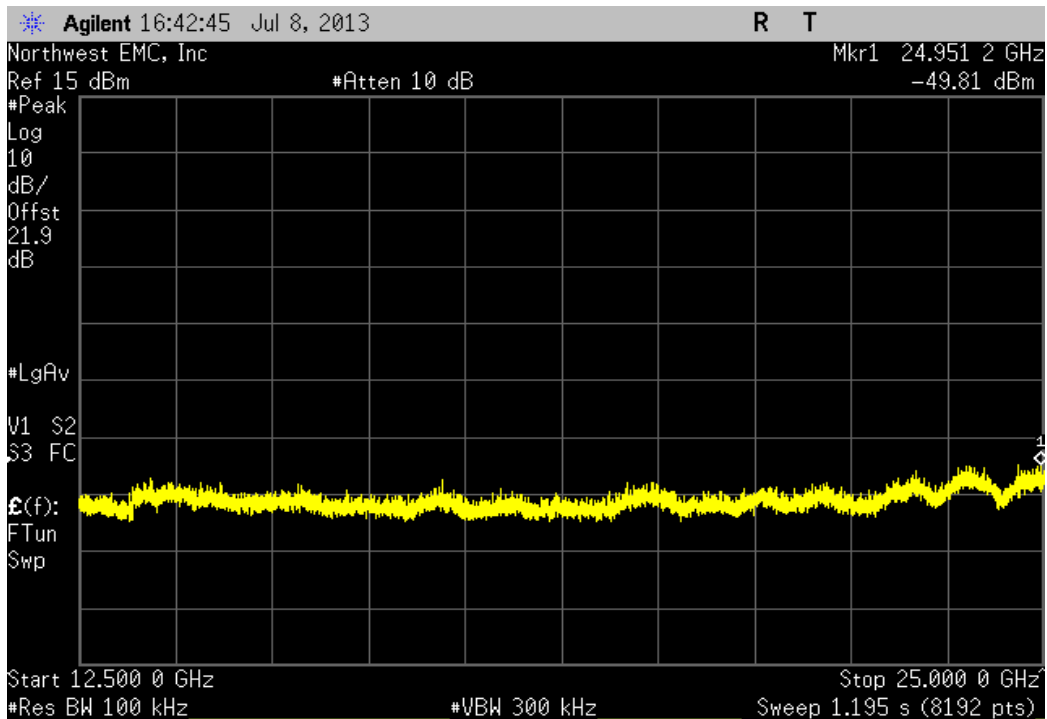
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz |  |       |       |        |
|----------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                  |  | Value | Limit | Result |
| Fundamental                                                                      |  | N/A   | N/A   | N/A    |



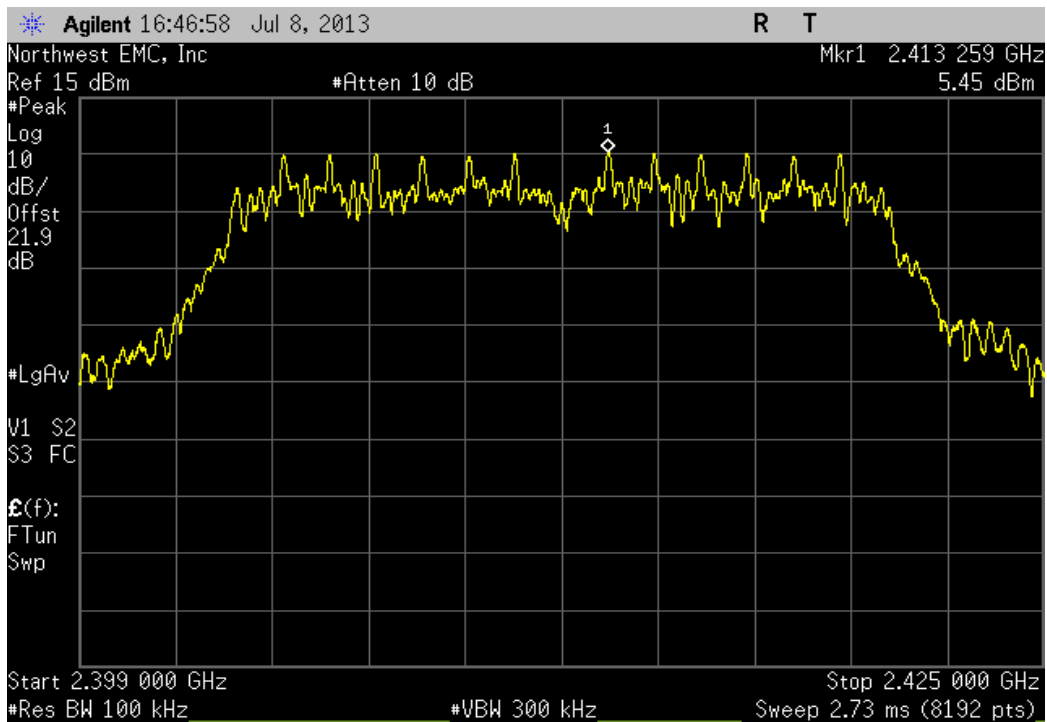
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz |  |            |           |        |
|----------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                |  | -58.67 dBc | ≤ -20 dBc | Pass   |



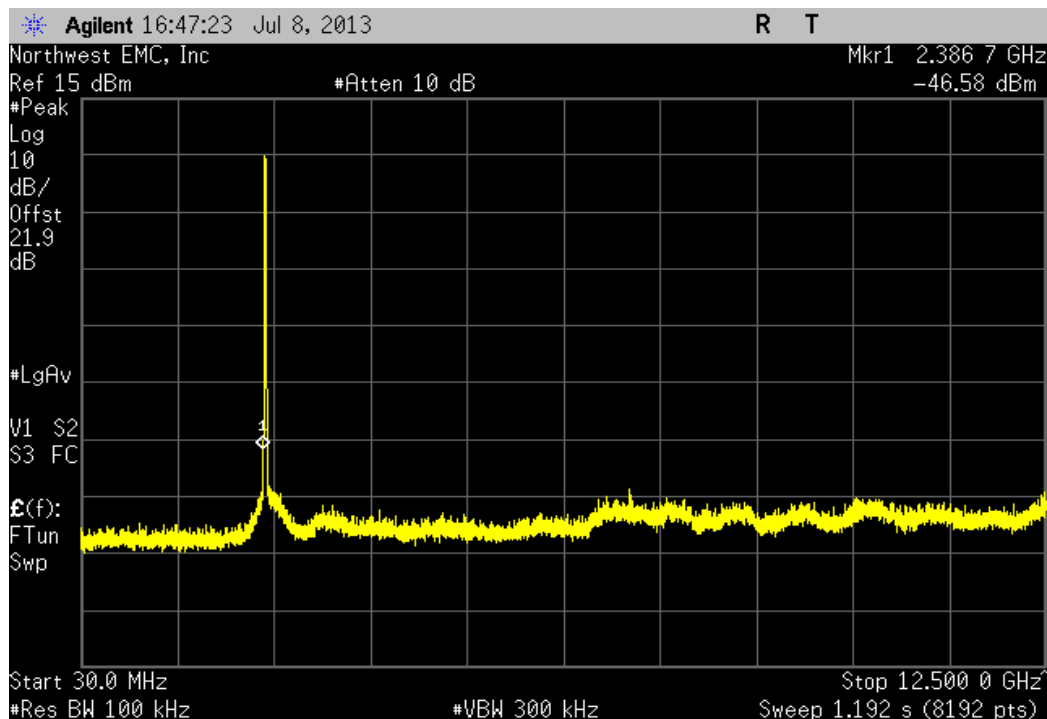
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz |  |            |           |        |
|----------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                  |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                |  | -54.37 dBc | ≤ -20 dBc | Pass   |



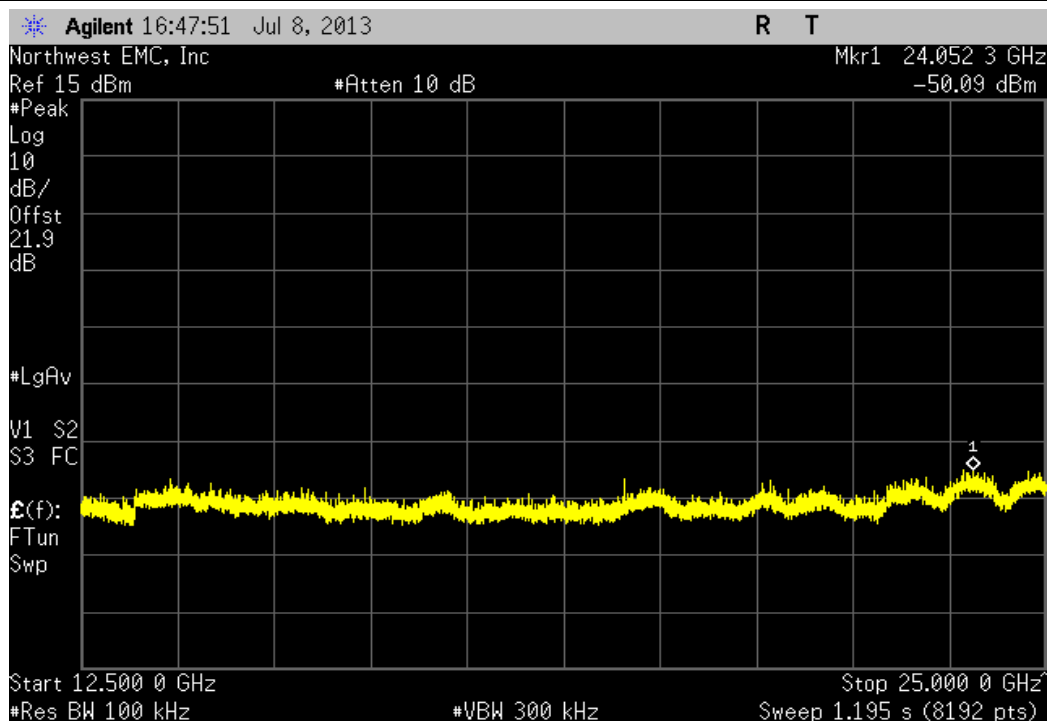
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz |  |       |       |        |
|-----------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                             |  | Value | Limit | Result |
| Fundamental                                                                 |  | N/A   | N/A   | N/A    |



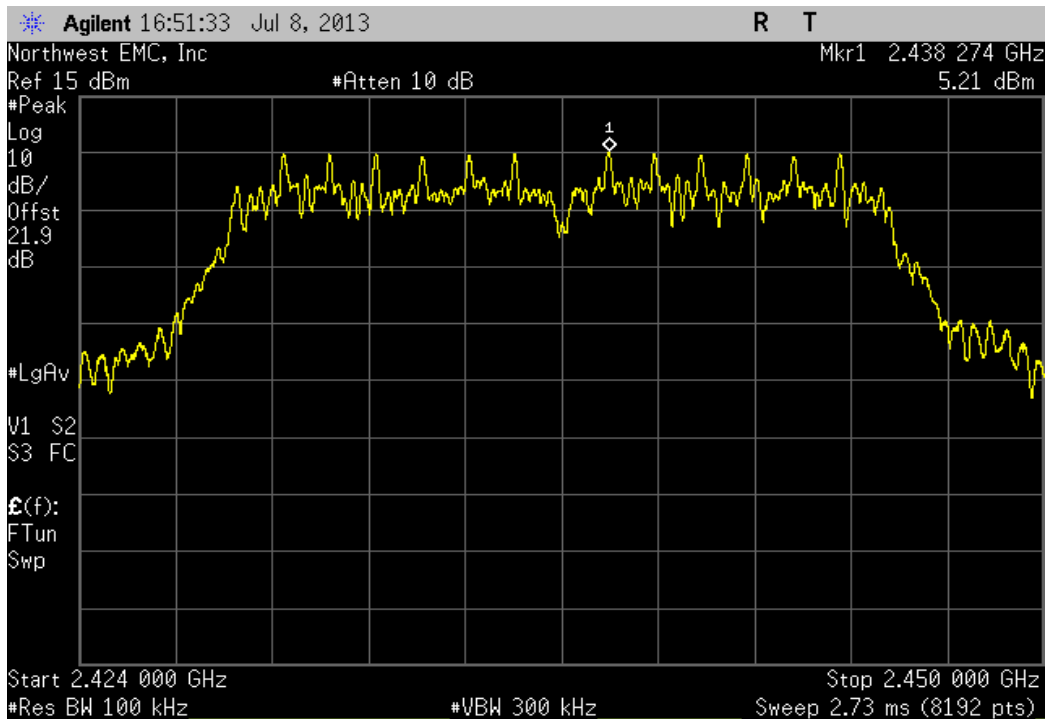
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                           | -52.04 dBc | ≤ -20 dBc | Pass   |  |



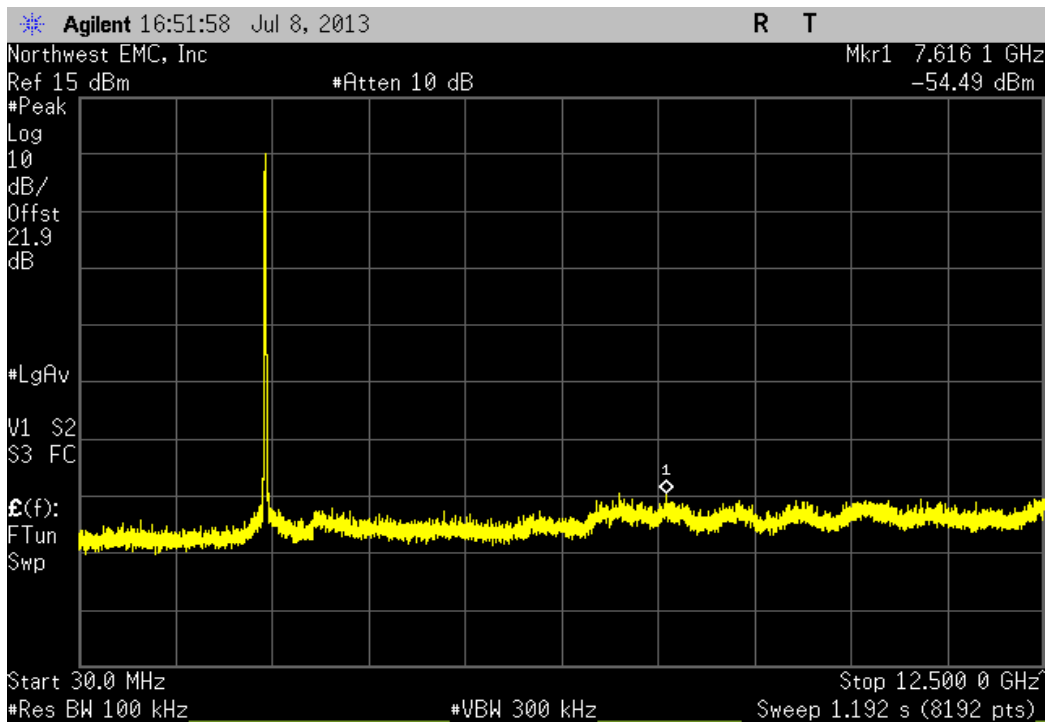
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                           | -55.55 dBc | ≤ -20 dBc | Pass   |  |



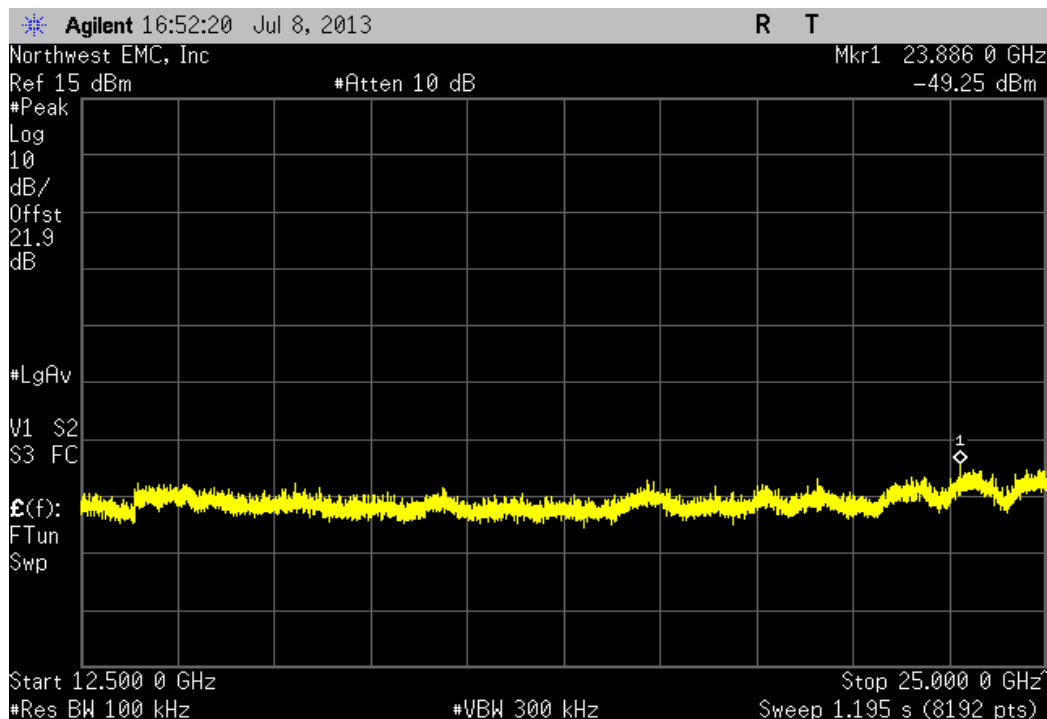
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz |  |       |       |        |
|-----------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                             |  | Value | Limit | Result |
| Fundamental                                                                 |  | N/A   | N/A   | N/A    |



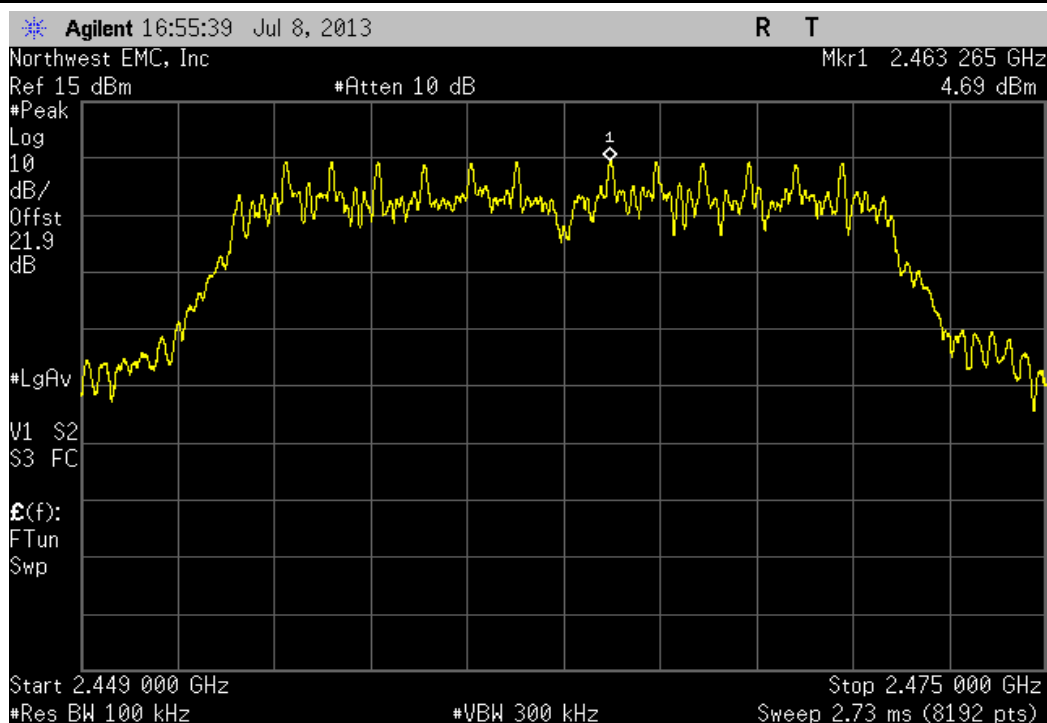
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz |  |           |           |        |
|-----------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                             |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                           |  | -59.7 dBc | ≤ -20 dBc | Pass   |



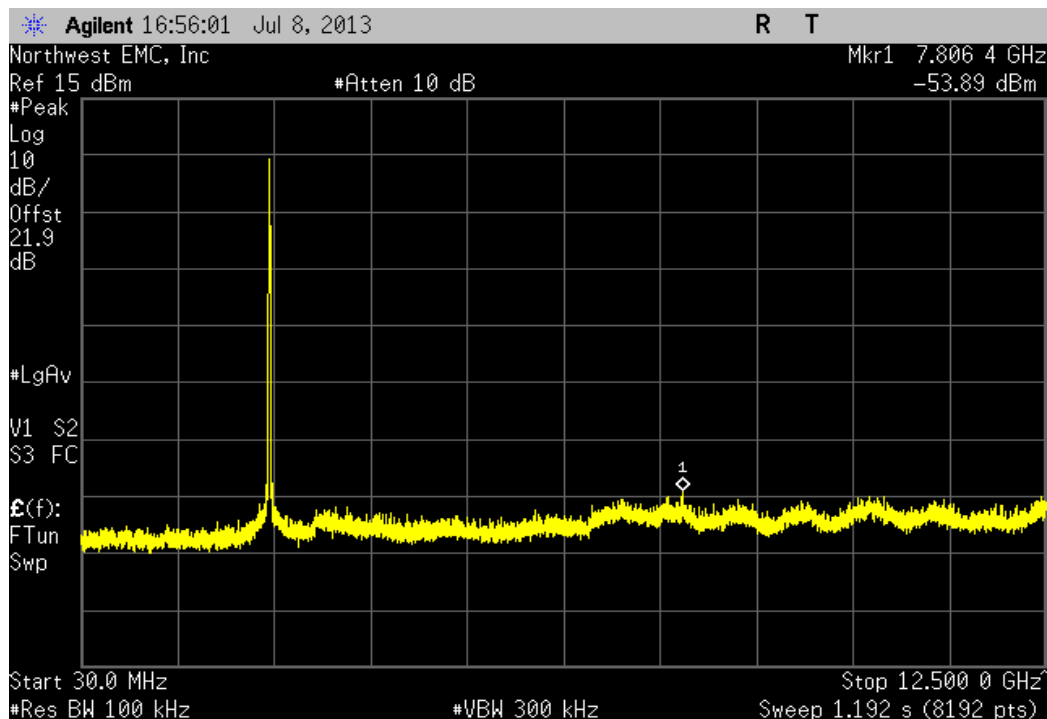
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz |  |            |           |        |
|-----------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                             |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                           |  | -54.46 dBc | ≤ -20 dBc | Pass   |



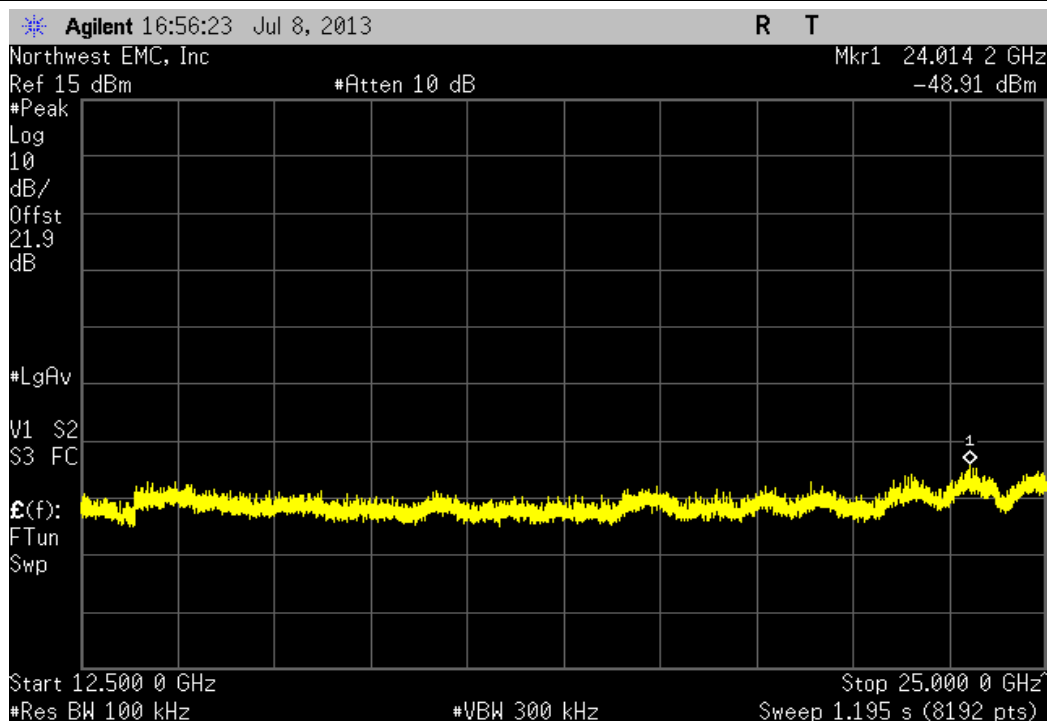
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



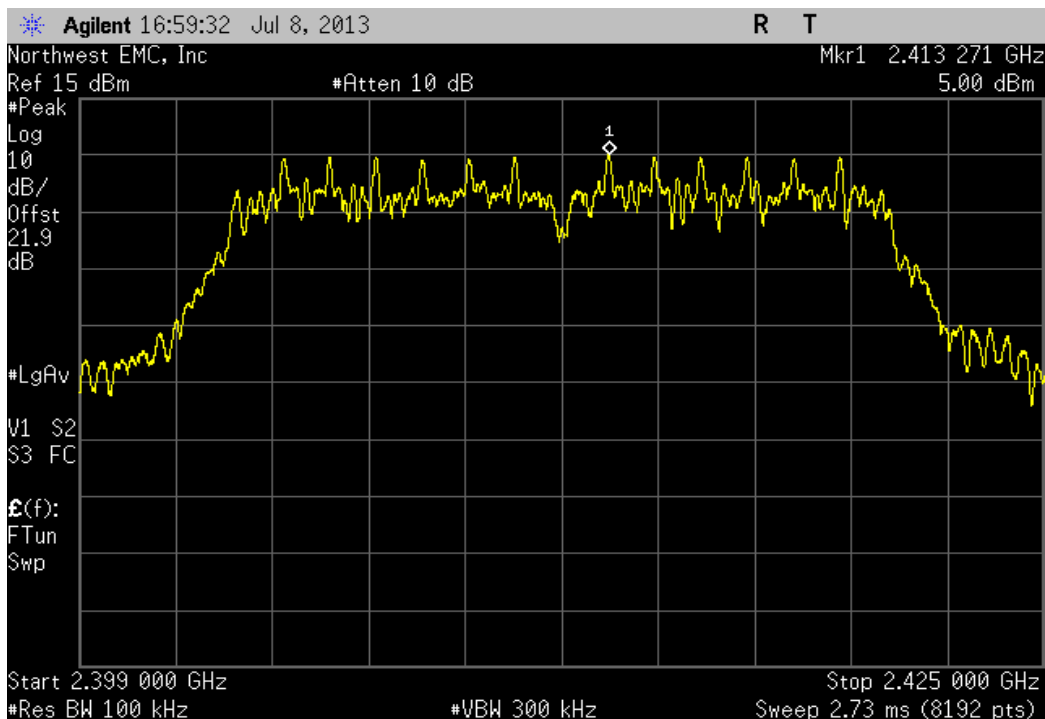
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -58.58 dBc | ≤ -20 dBc | Pass   |  |



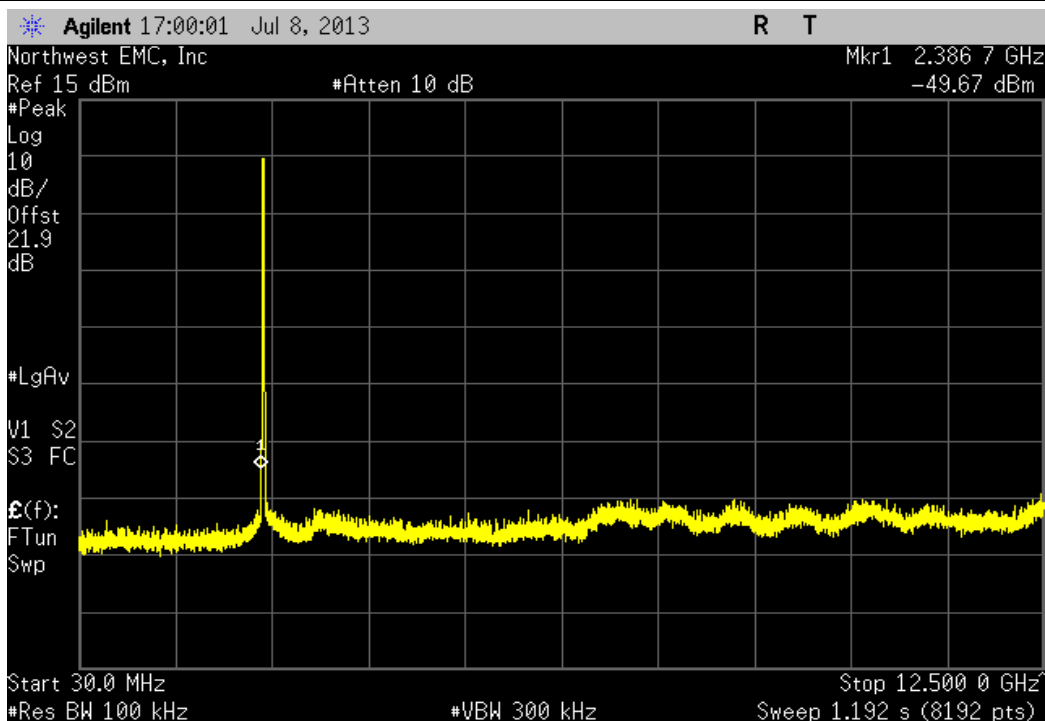
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz |           |           |        |  |
|-------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                               | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -53.6 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz |  |  |  |       |       |        |
|-----------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                             |  |  |  | Value | Limit | Result |
| Fundamental                                                                 |  |  |  | N/A   | N/A   | N/A    |

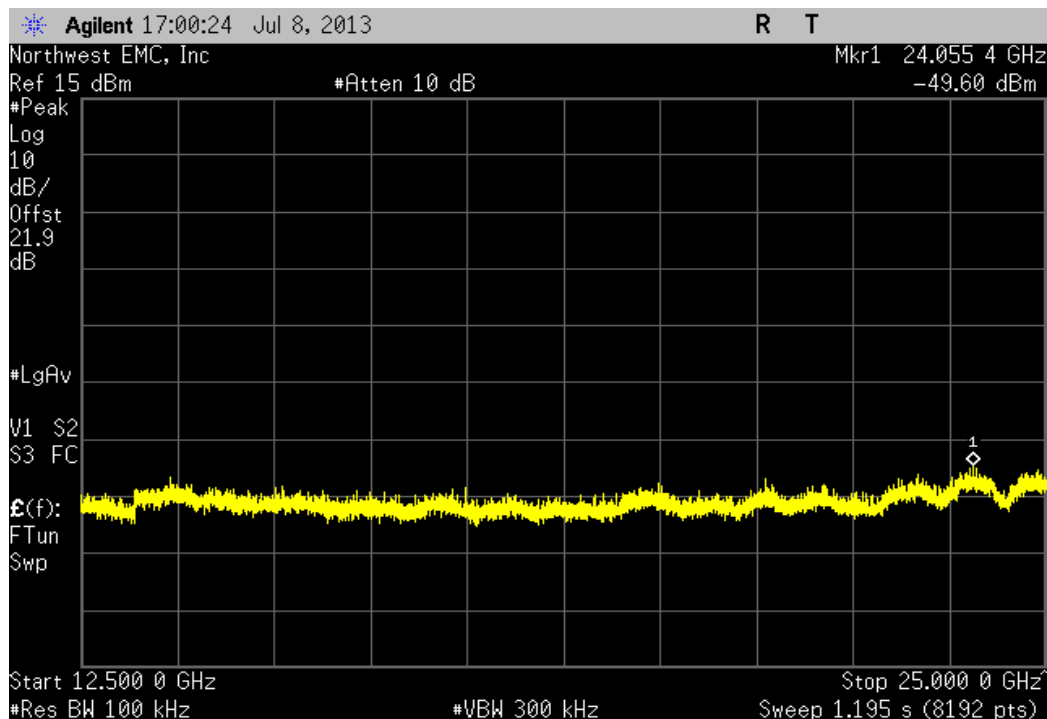


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz |  |  |  |            |           |        |
|-----------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                             |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                           |  |  |  | -54.67 dBc | ≤ -20 dBc | Pass   |

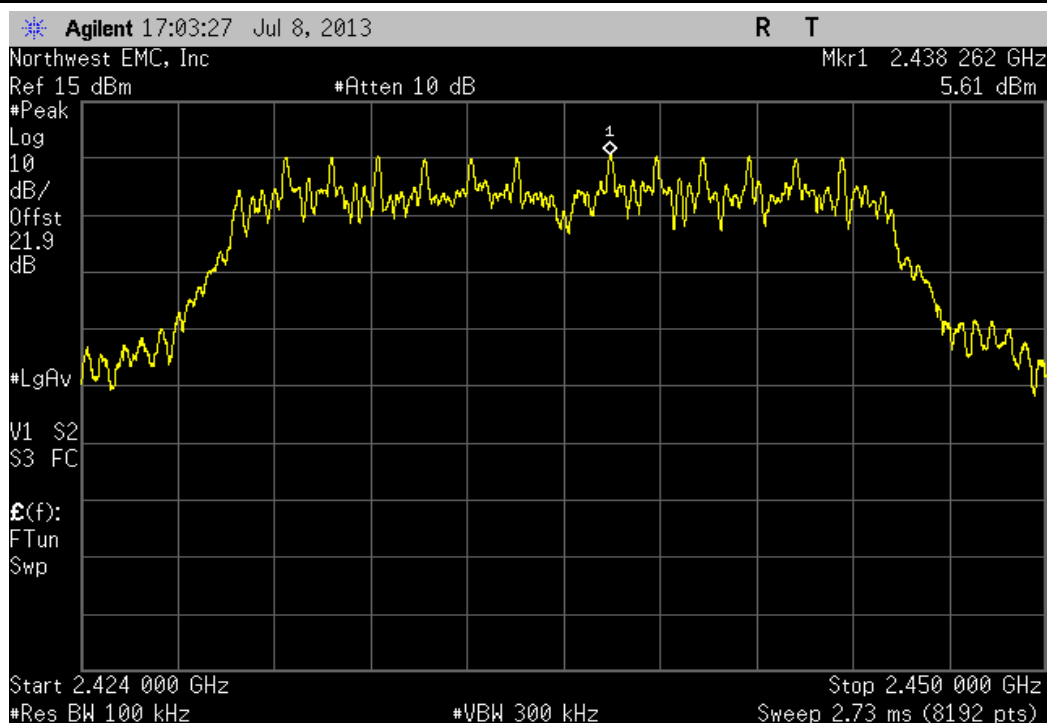




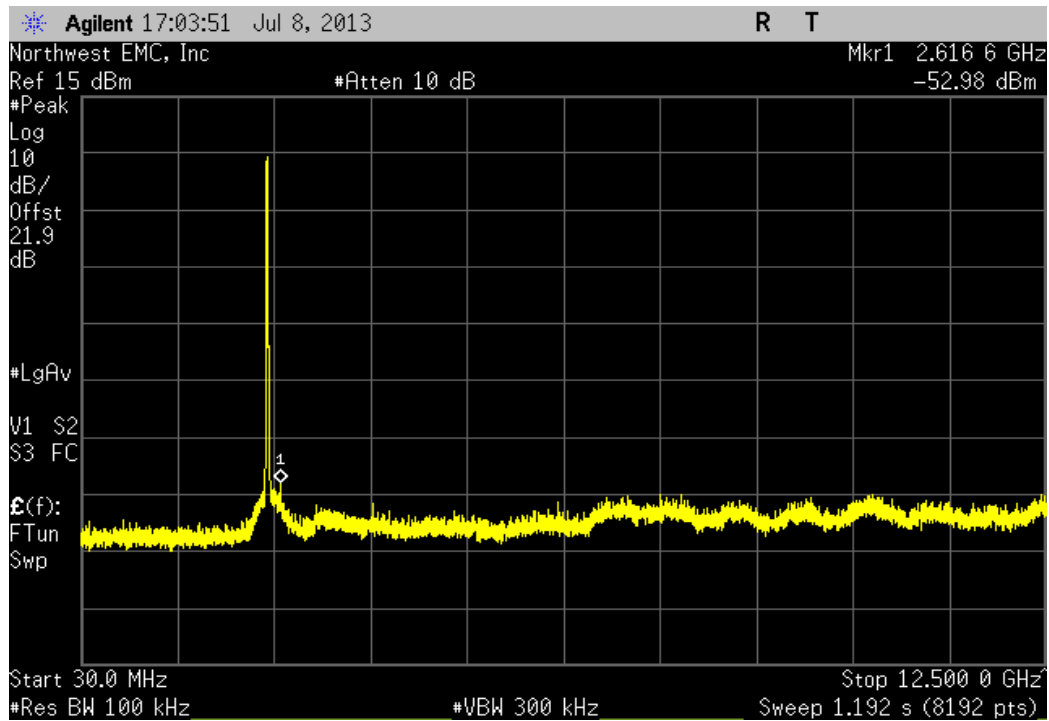
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz |  |           |           |        |
|-----------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                             |  | Value     | Limit     | Result |
| 12.5 GHz - 25 GHz                                                           |  | -54.6 dBc | ≤ -20 dBc | Pass   |



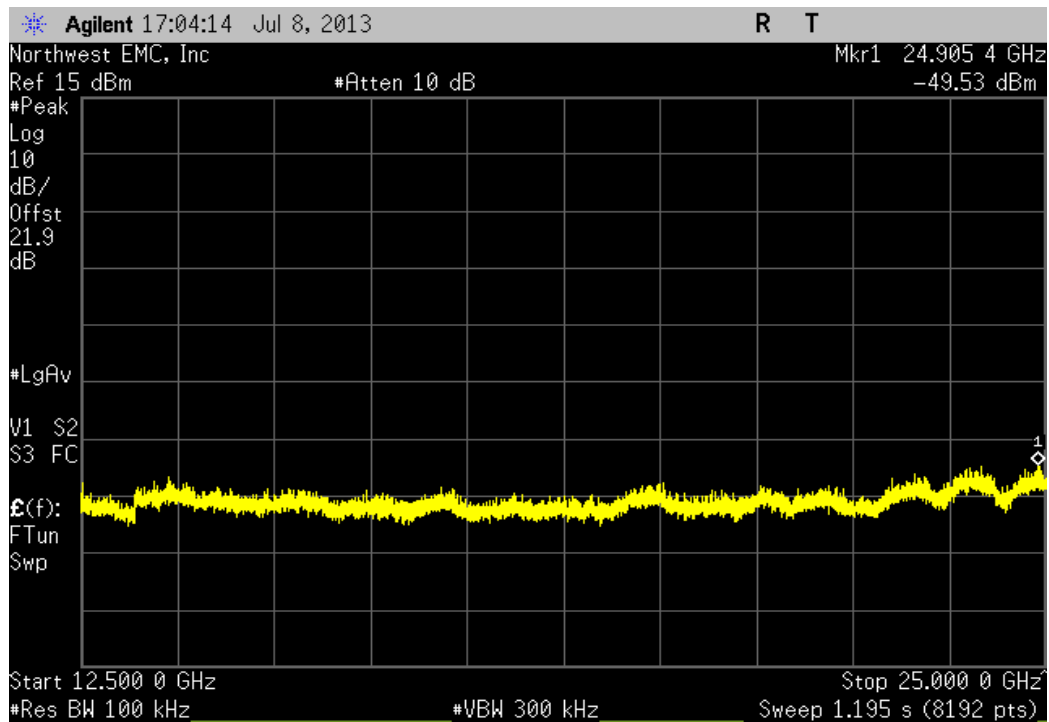
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz |  |       |       |        |
|-----------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                             |  | Value | Limit | Result |
| Fundamental                                                                 |  | N/A   | N/A   | N/A    |



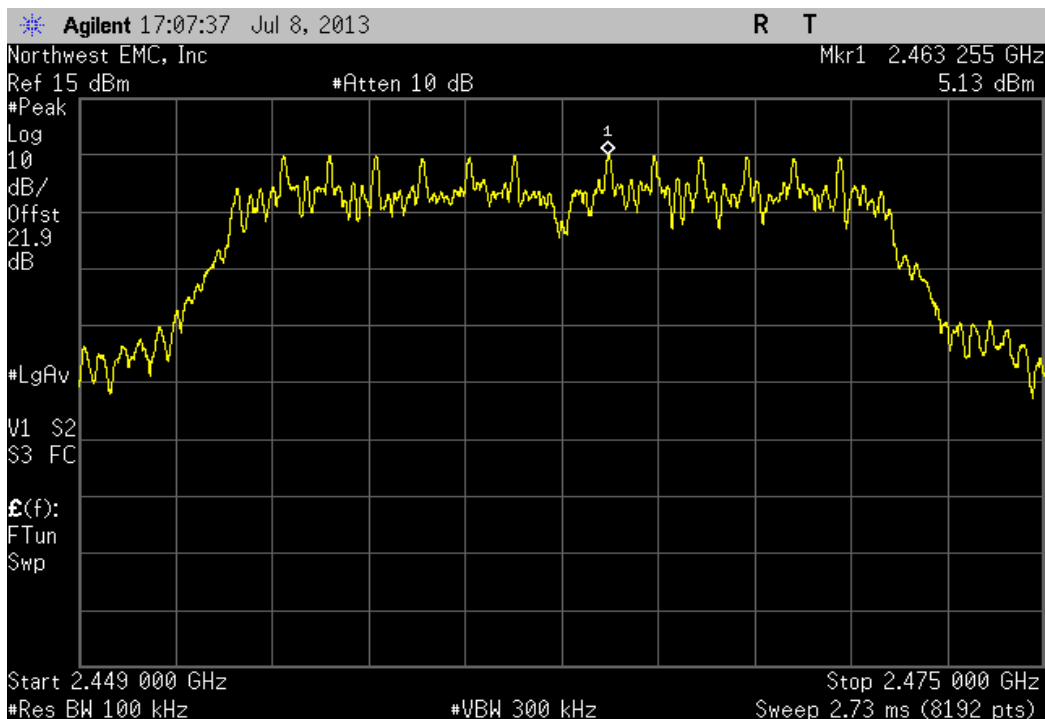
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                           | -58.59 dBc | ≤ -20 dBc | Pass   |  |



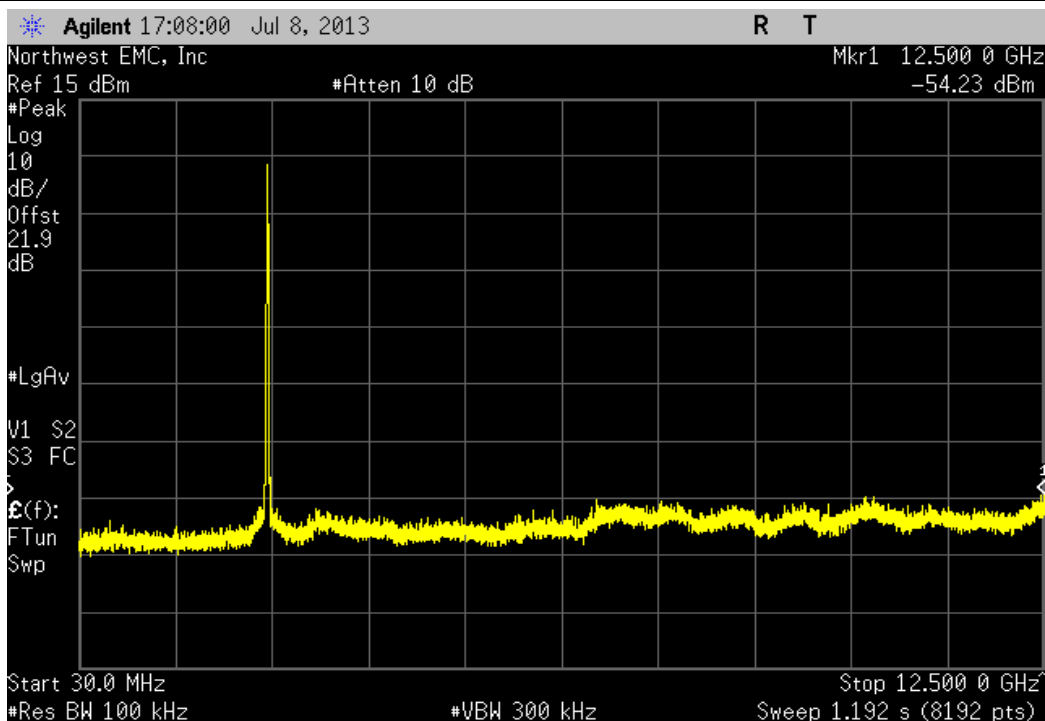
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                           | -55.14 dBc | ≤ -20 dBc | Pass   |  |



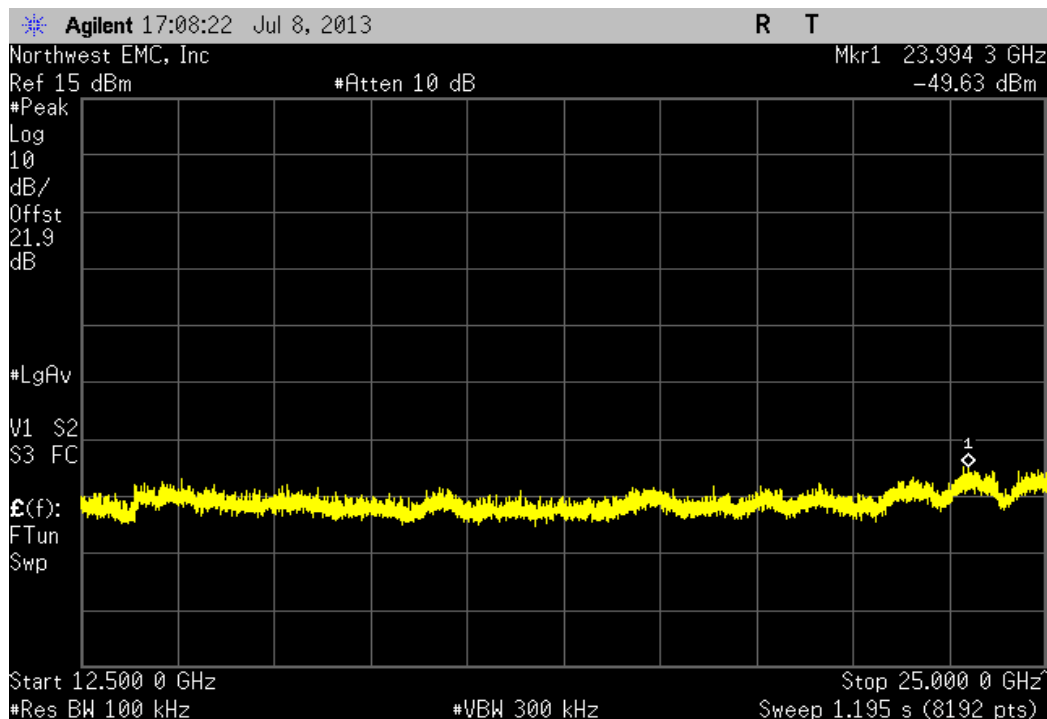
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz |  |  |  |       |       |        |
|-------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                               |  |  |  | Value | Limit | Result |
| Fundamental                                                                   |  |  |  | N/A   | N/A   | N/A    |



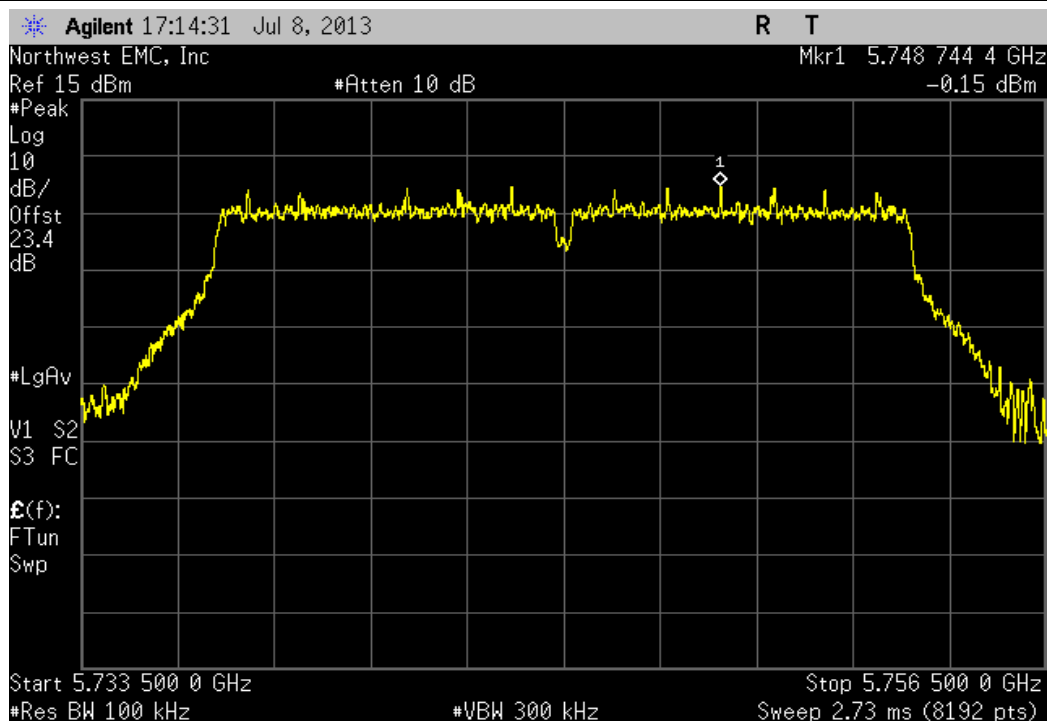
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz |  |  |  |            |           |        |
|-------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                               |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  |  |  | -59.36 dBc | ≤ -20 dBc | Pass   |



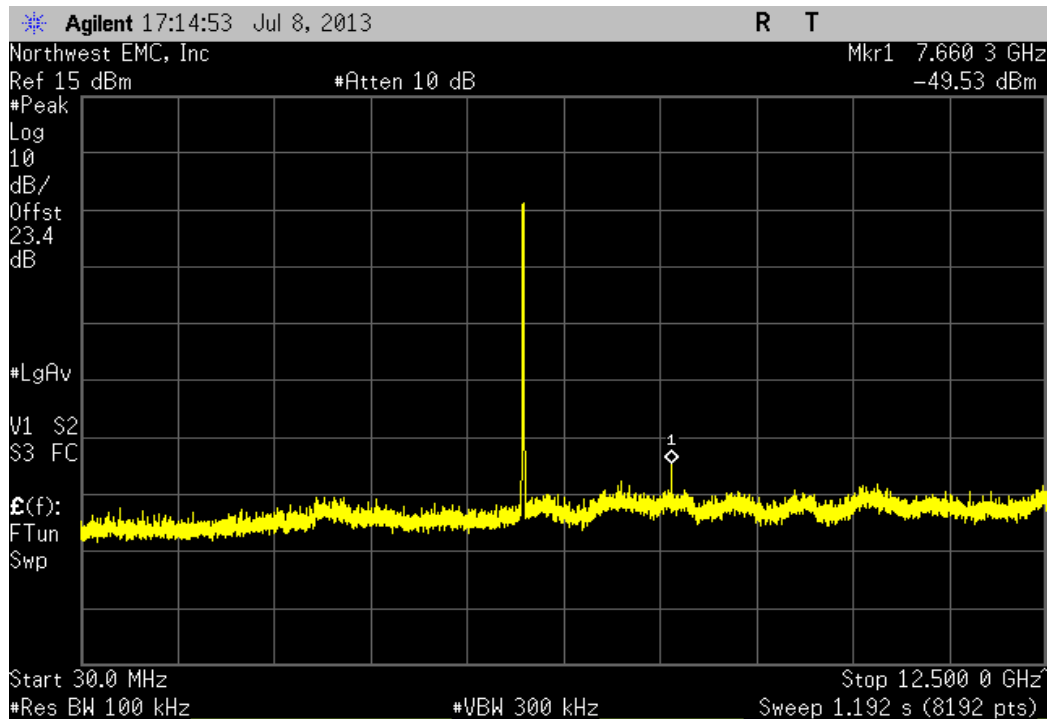
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -54.76 dBc | ≤ -20 dBc | Pass   |



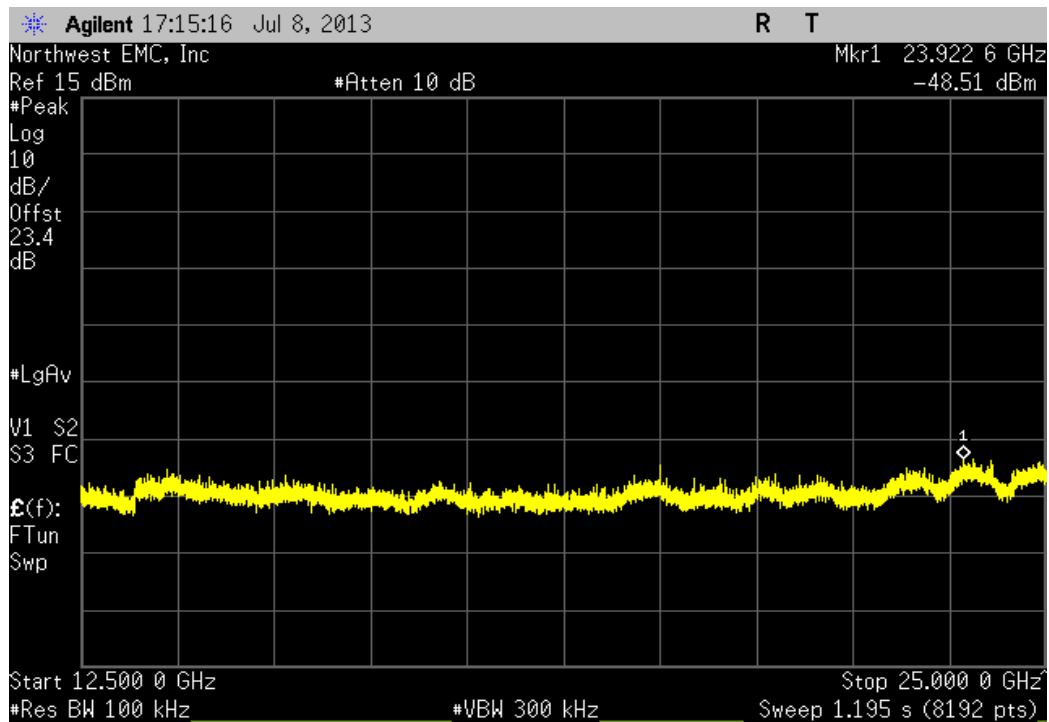
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



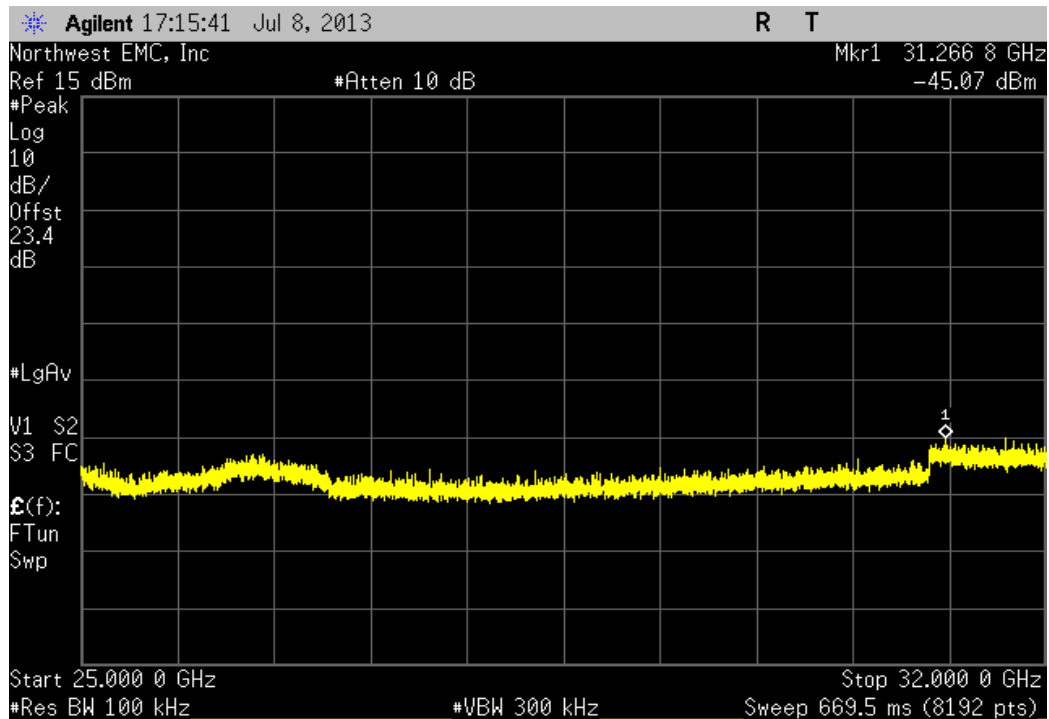
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -49.38 dBc | ≤ -20 dBc | Pass   |  |



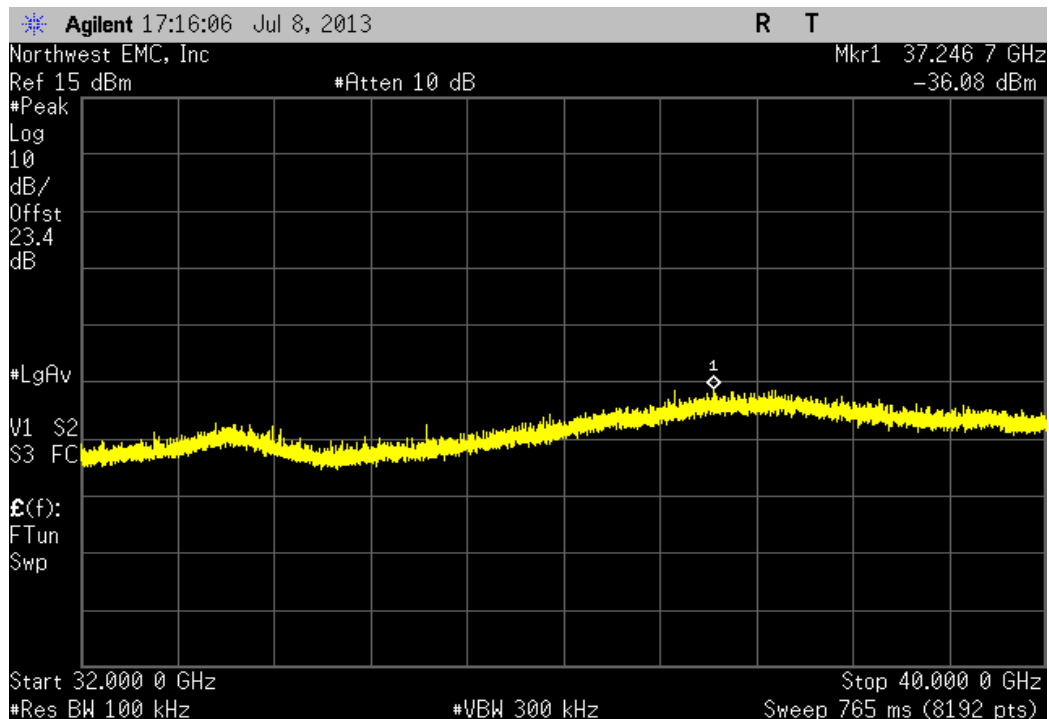
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -48.36 dBc | ≤ -20 dBc | Pass   |  |



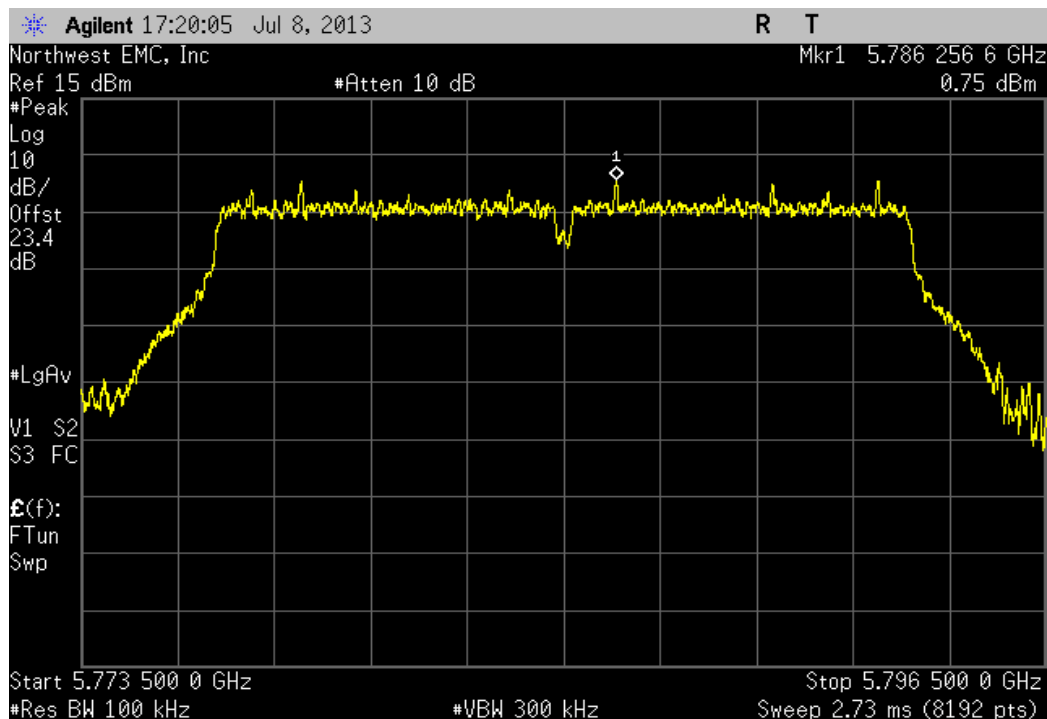
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                               |  | -44.92 dBc | ≤ -20 dBc | Pass   |



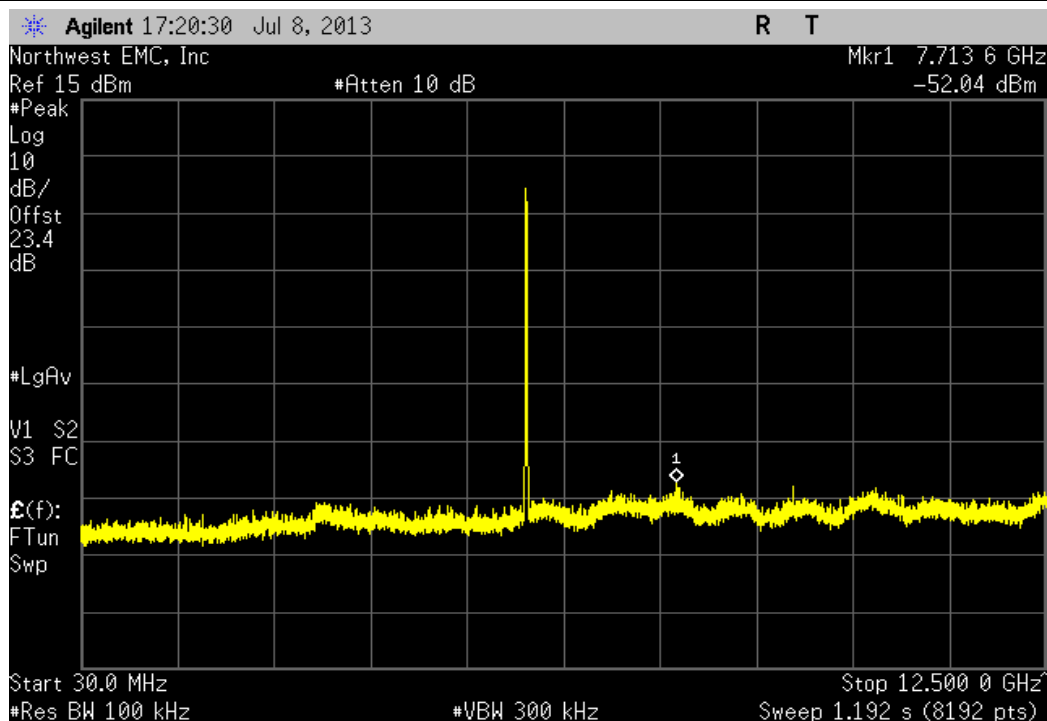
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                               |  | -35.93 dBc | ≤ -20 dBc | Pass   |



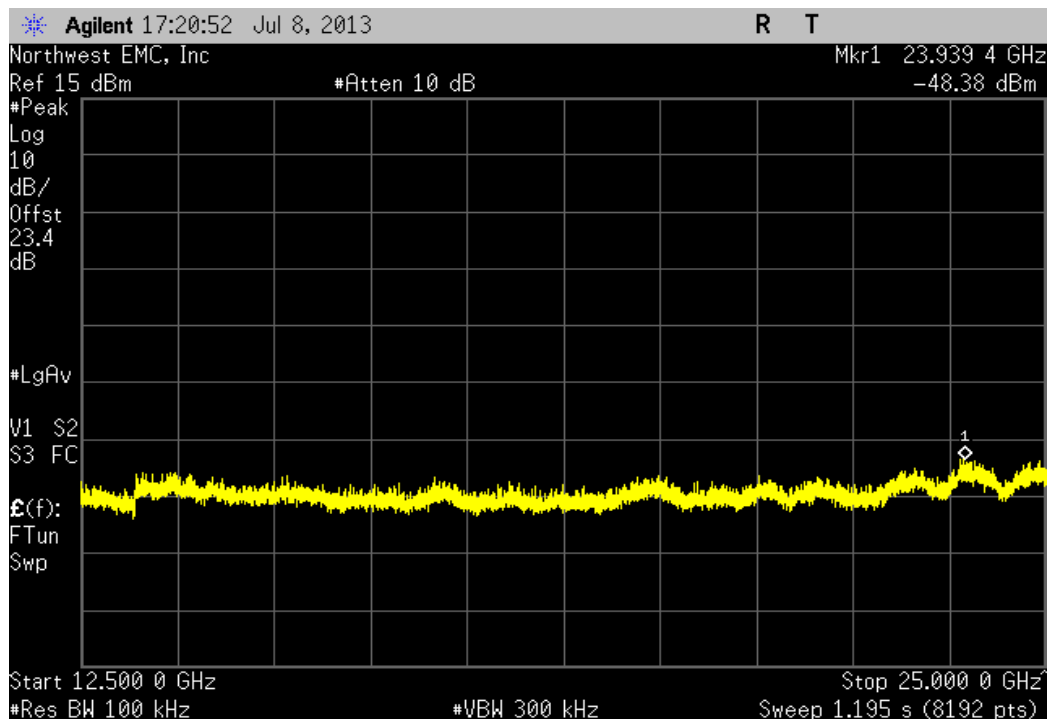
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



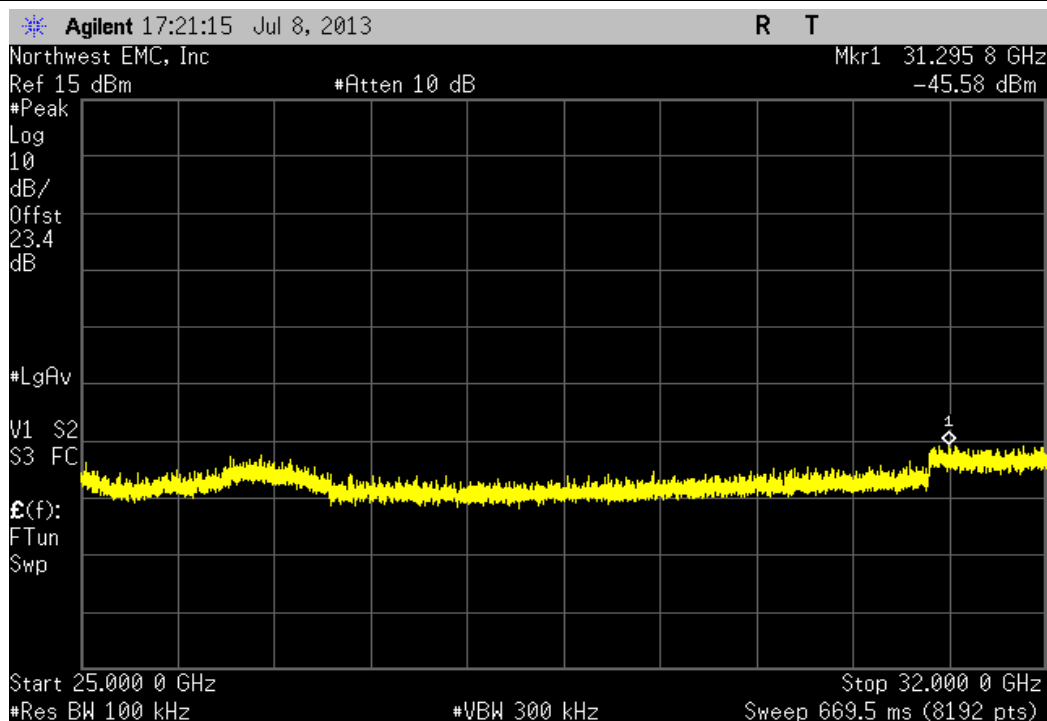
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -52.79 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -49.13 dBc | ≤ -20 dBc | Pass   |

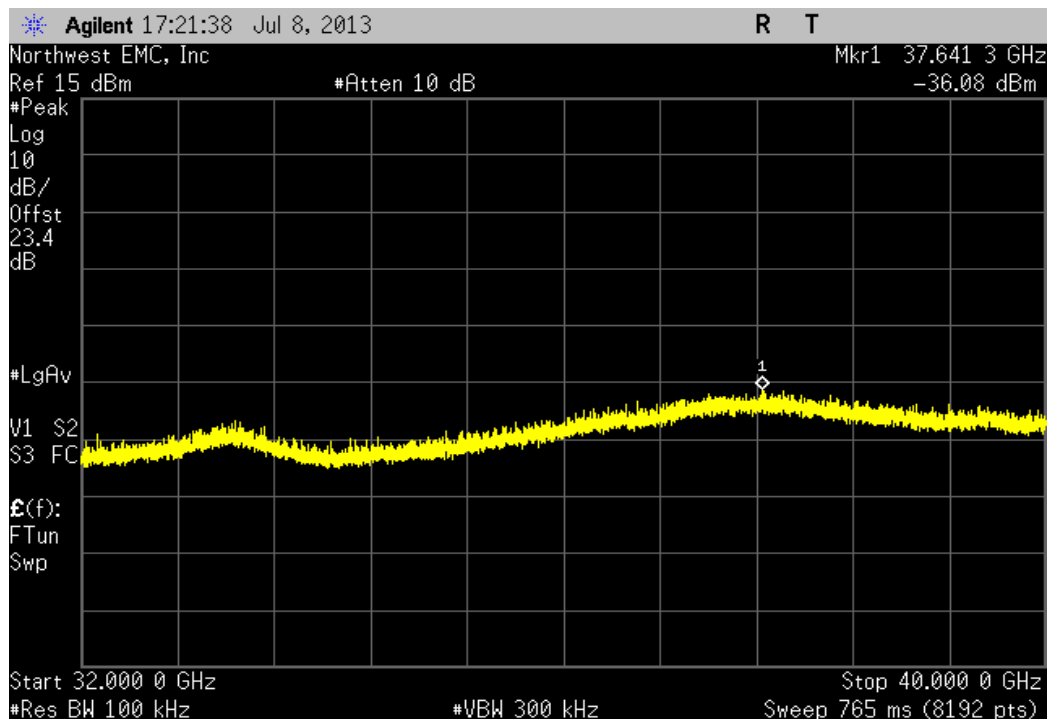


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                               |  | -46.33 dBc | ≤ -20 dBc | Pass   |

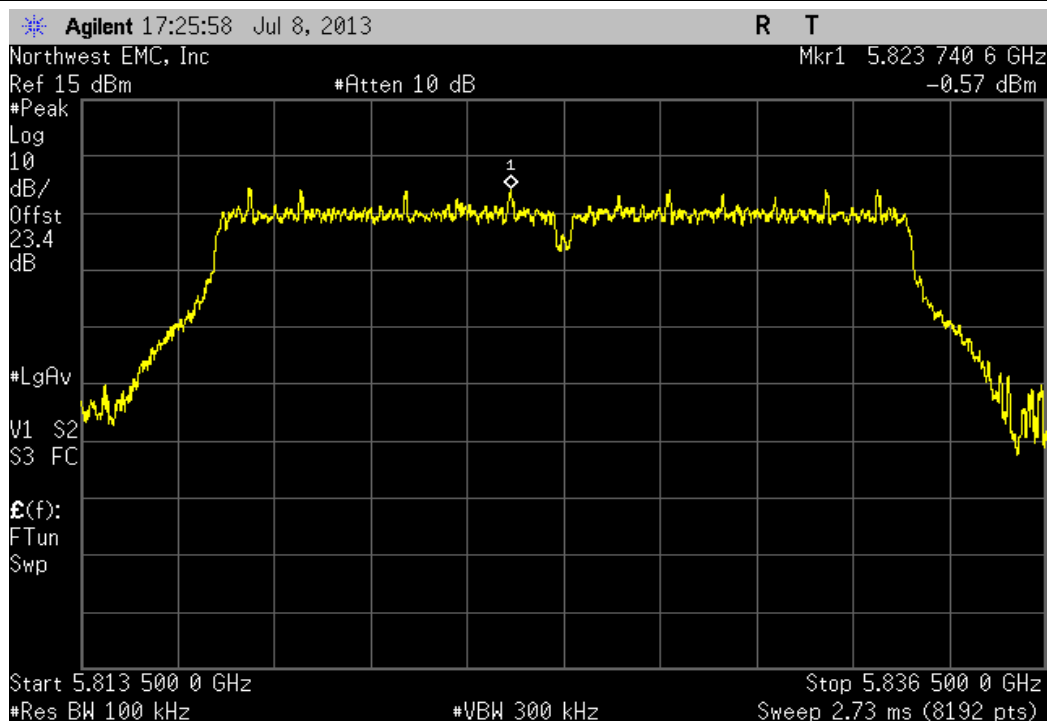




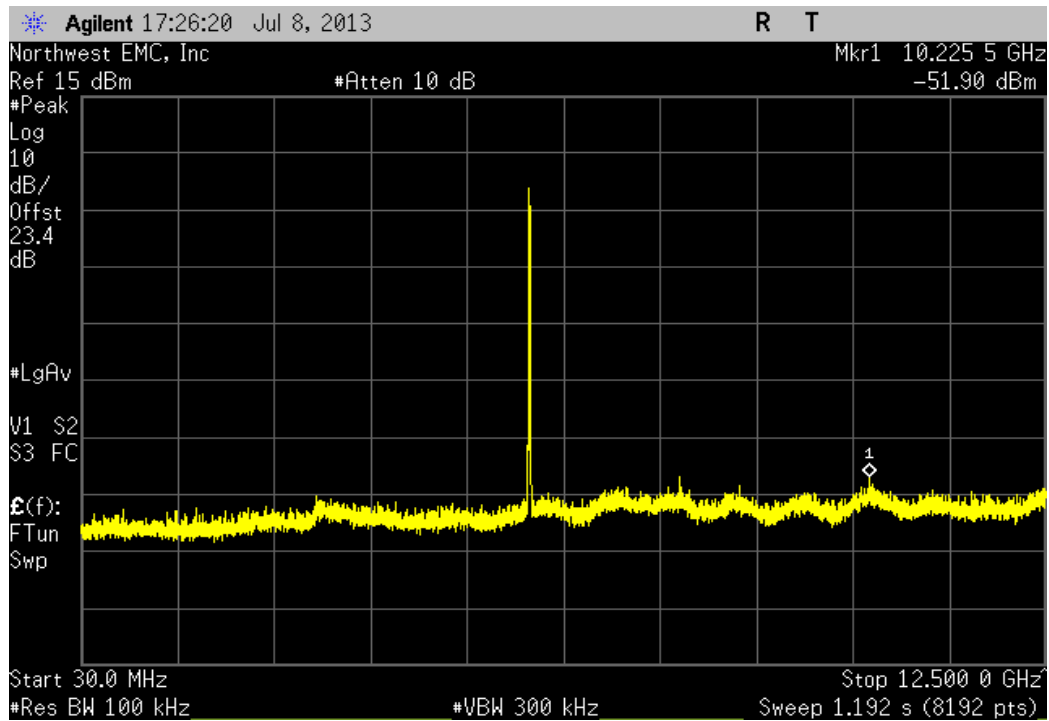
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |
|-------------------------------------------------------------------------------|--|------------|-----------|
| Frequency Range                                                               |  | Value      | Limit     |
| 32 GHz - 40 GHz                                                               |  | -36.83 dBc | ≤ -20 dBc |
|                                                                               |  |            | Pass      |



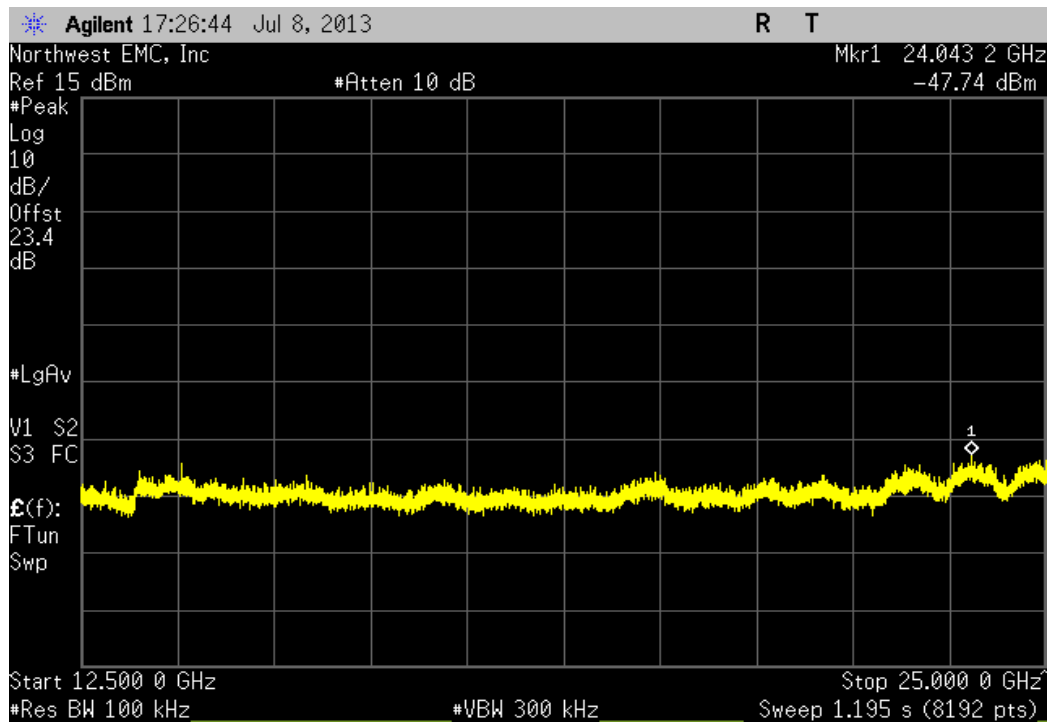
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |  |       |       |
|--------------------------------------------------------------------------------|--|-------|-------|
| Frequency Range                                                                |  | Value | Limit |
| Fundamental                                                                    |  | N/A   | N/A   |
|                                                                                |  |       | N/A   |



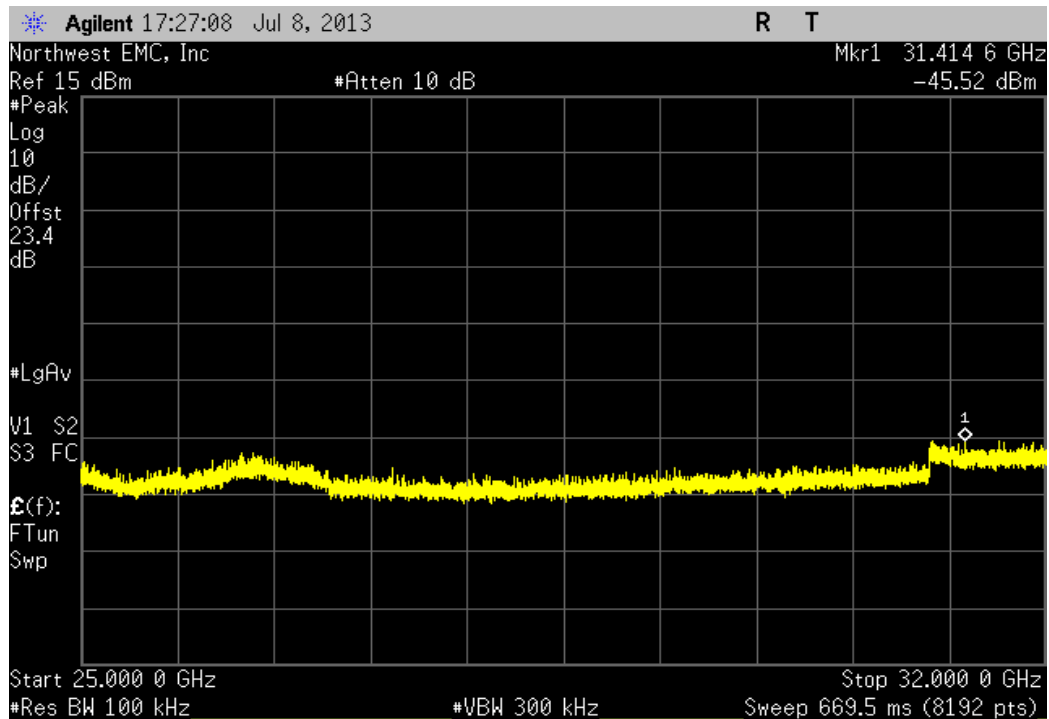
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -51.33 dBc | ≤ -20 dBc | Pass   |  |



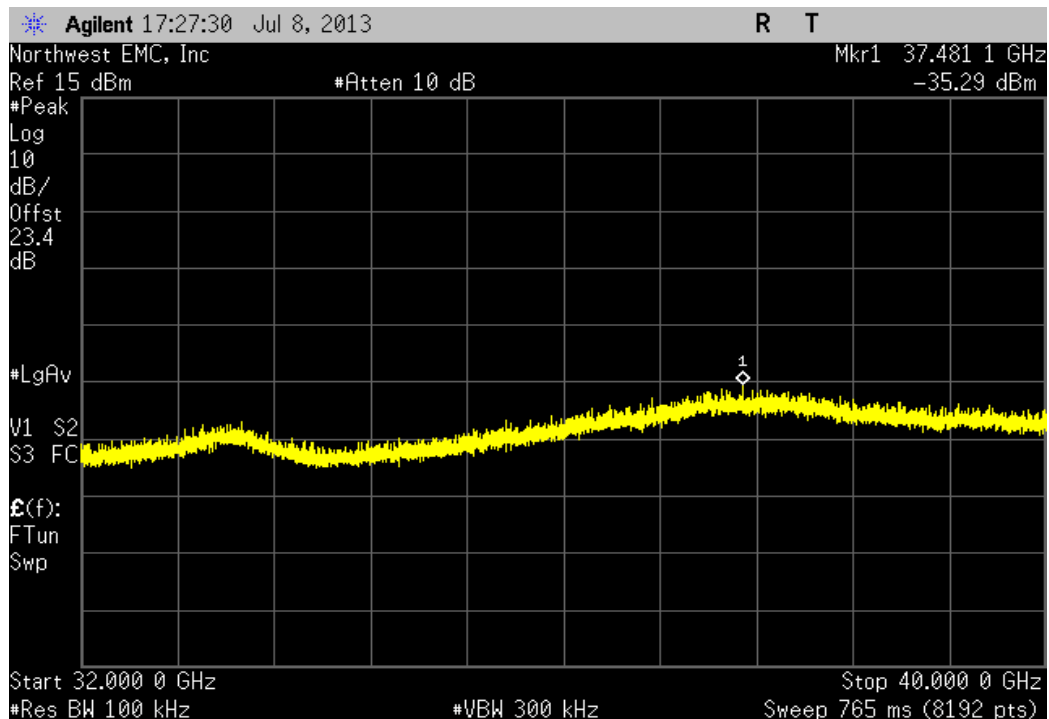
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -47.16 dBc | ≤ -20 dBc | Pass   |  |



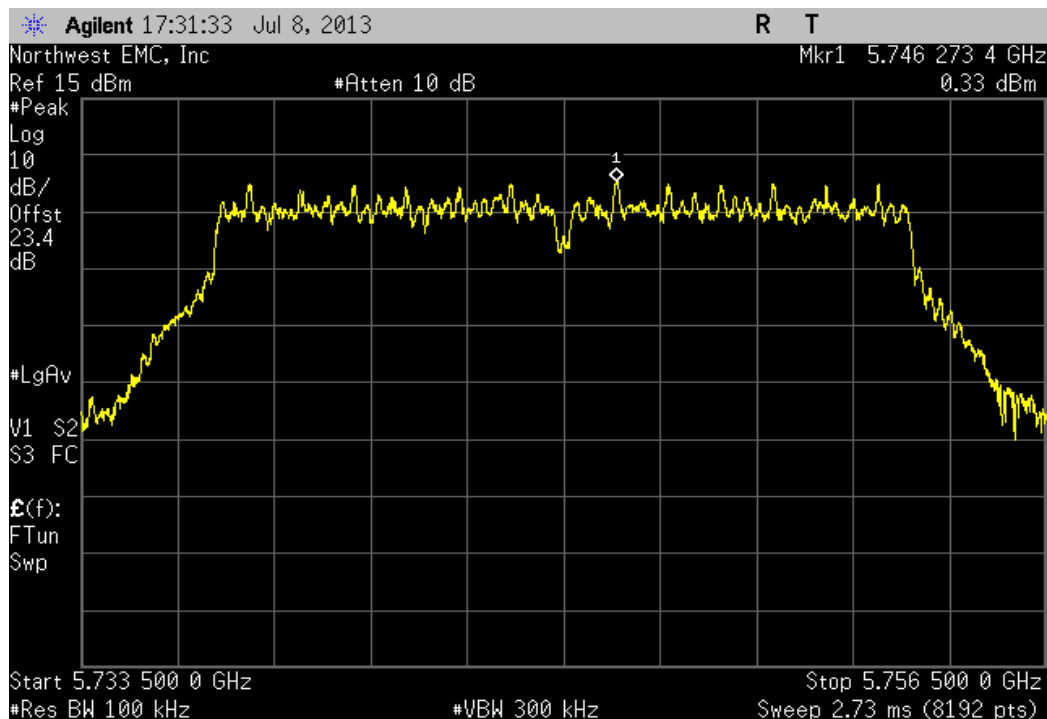
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -44.95 dBc | ≤ -20 dBc | Pass   |



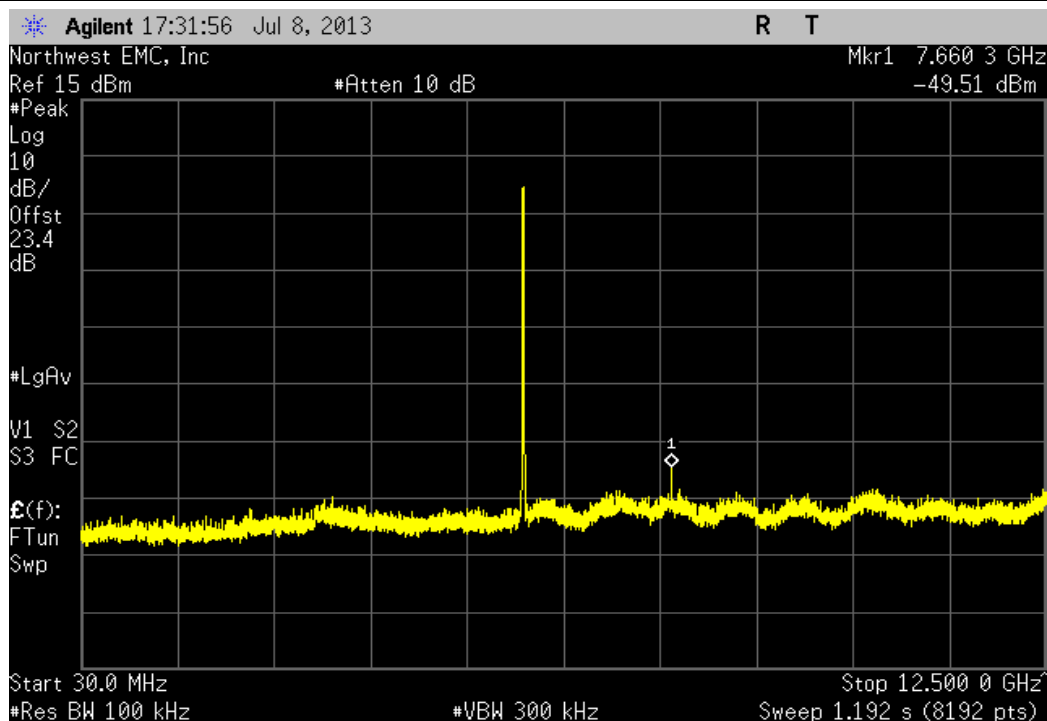
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -34.72 dBc | ≤ -20 dBc | Pass   |



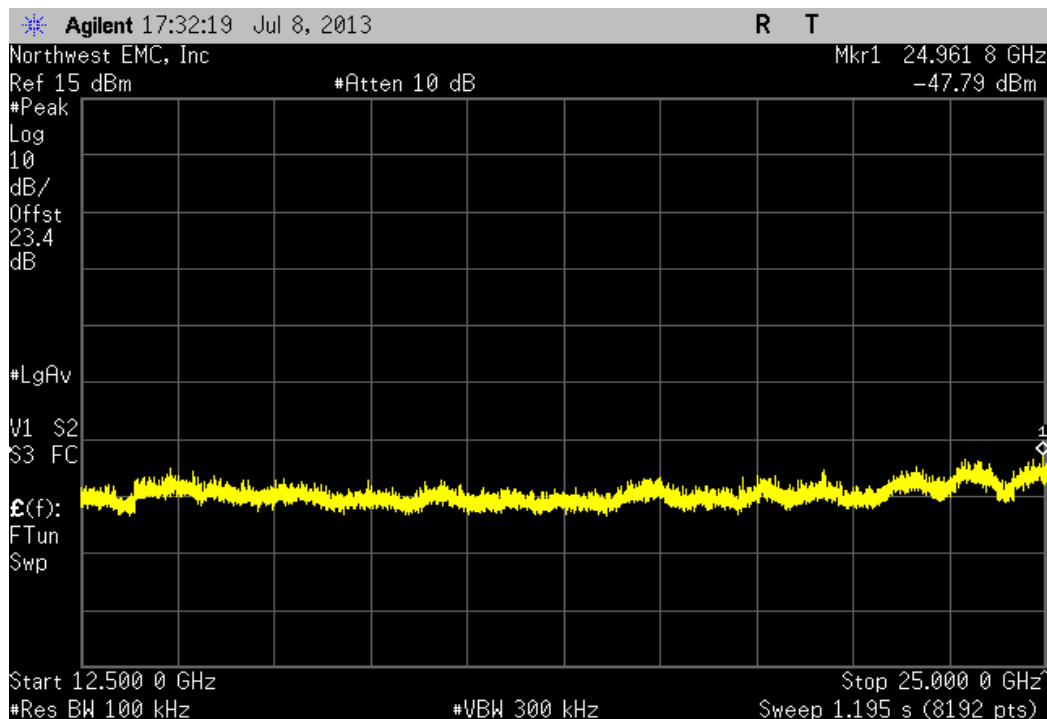
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |  |  |       |       |        |
|--------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                |  |  |  | Value | Limit | Result |
| Fundamental                                                                    |  |  |  | N/A   | N/A   | N/A    |



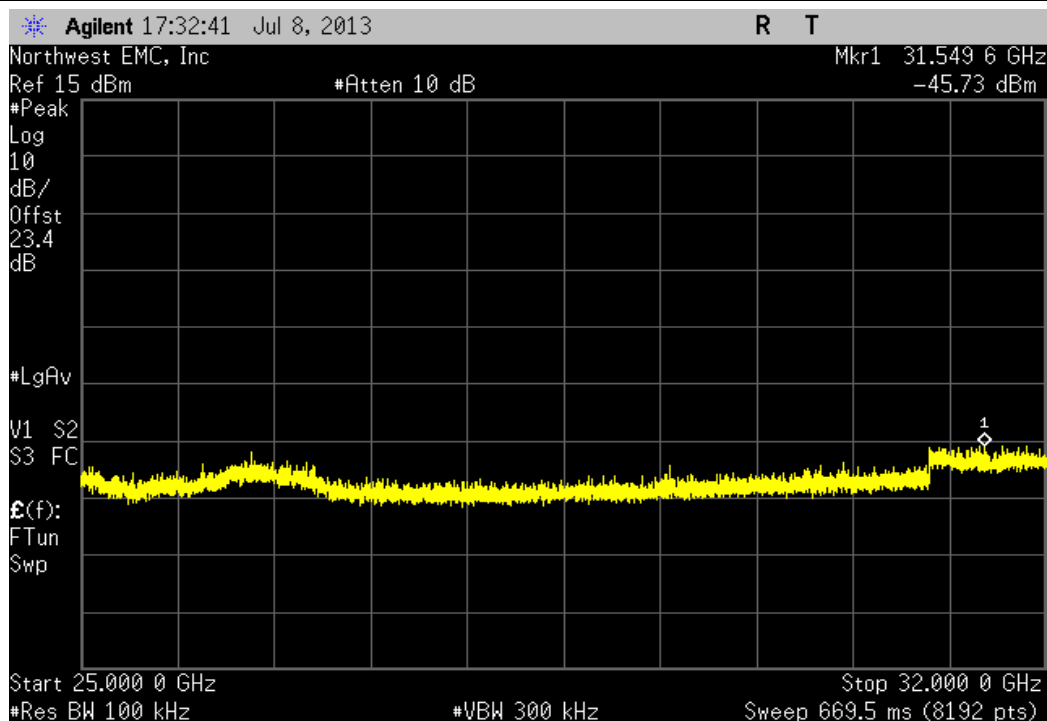
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |  |  |            |           |        |
|--------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  |  |  | -49.84 dBc | ≤ -20 dBc | Pass   |



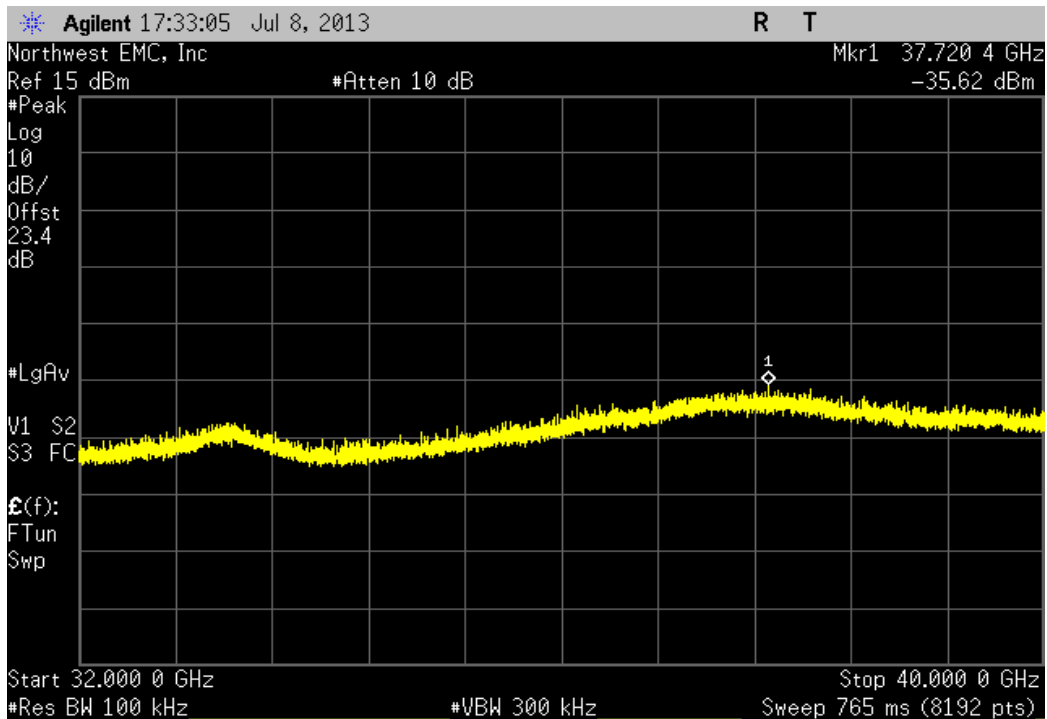
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                              |  | -48.12 dBc | ≤ -20 dBc | Pass   |



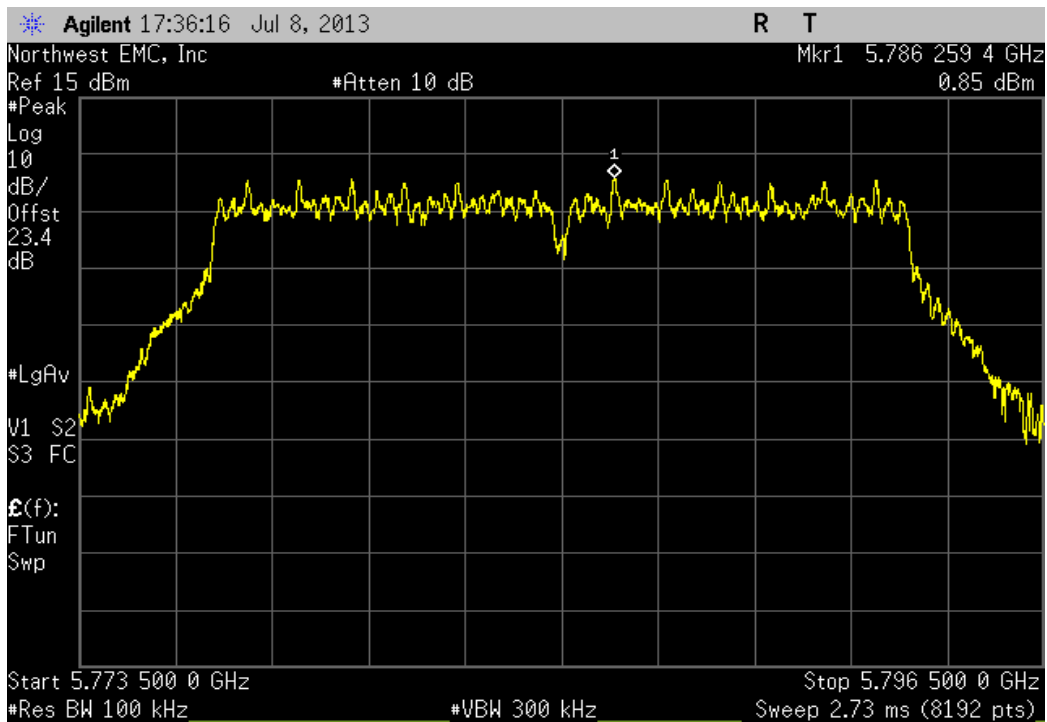
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -46.06 dBc | ≤ -20 dBc | Pass   |



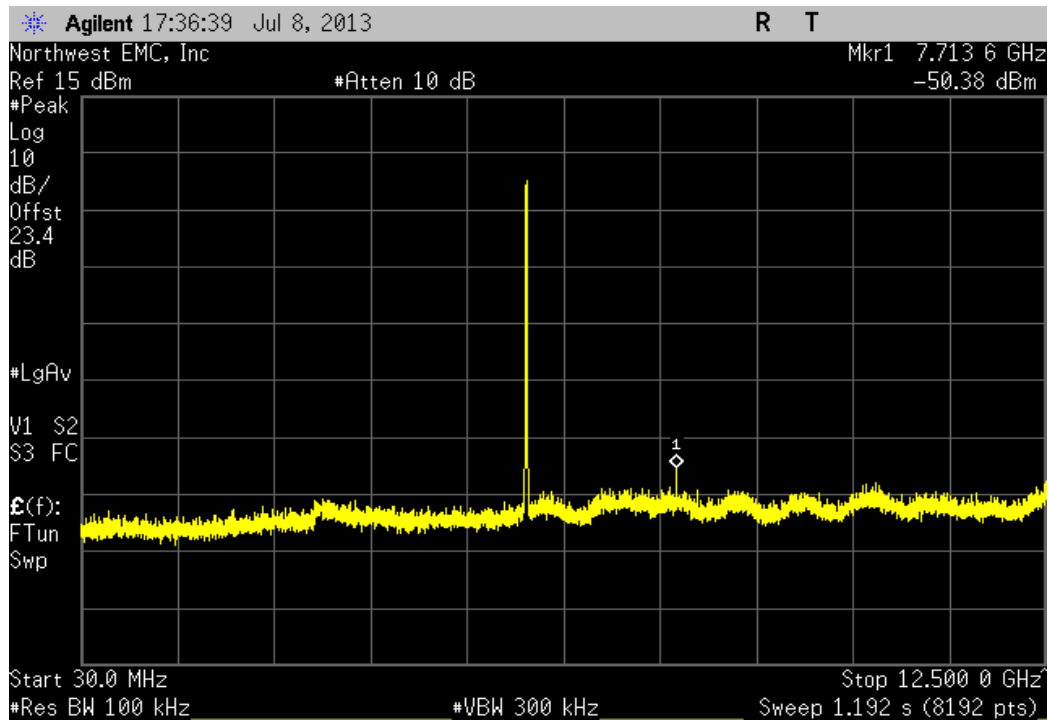
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |            |           |        |
|--------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                | -35.96 dBc | ≤ -20 dBc | Pass   |



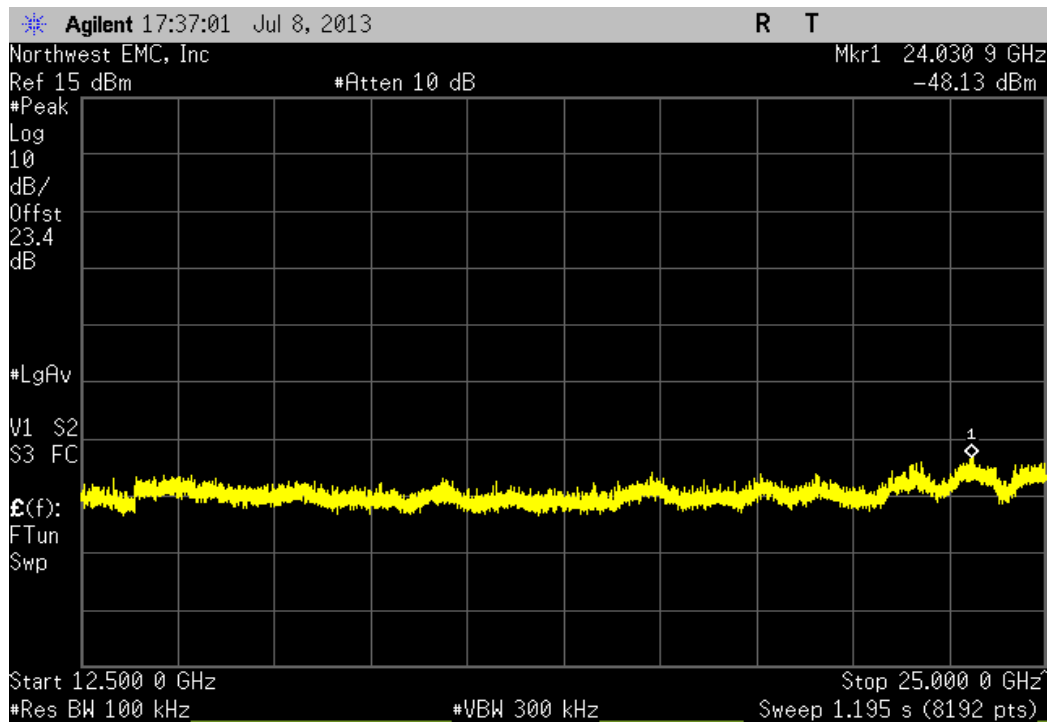
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |       |       |        |
|--------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                | Value | Limit | Result |
| Fundamental                                                                    | N/A   | N/A   | N/A    |



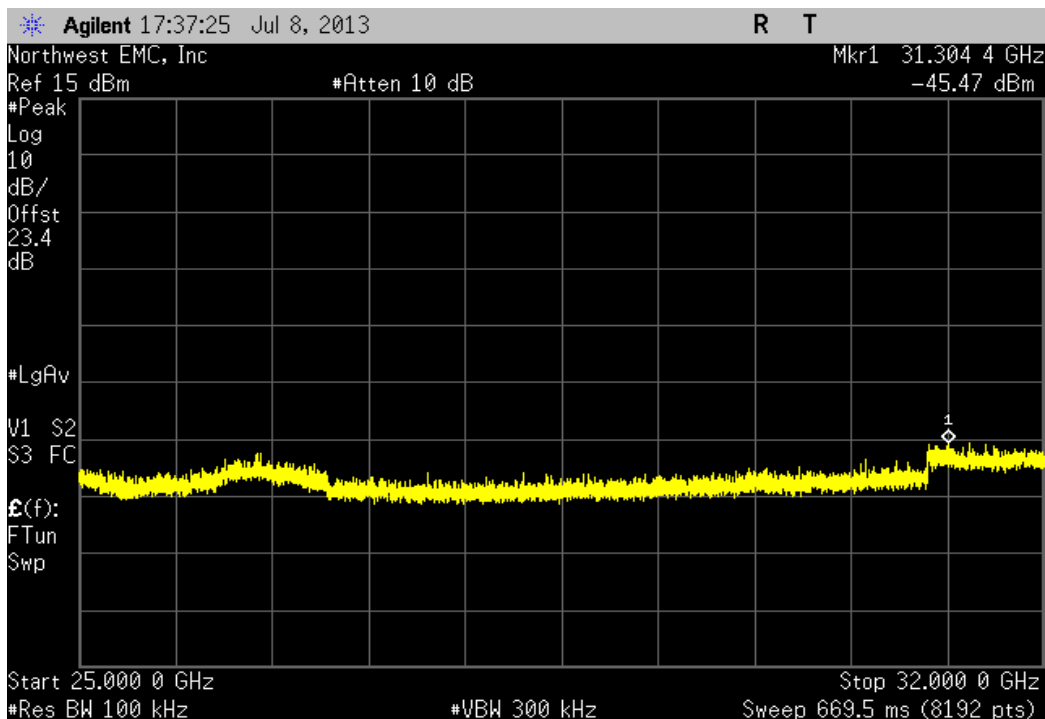
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -51.23 dBc | ≤ -20 dBc | Pass   |  |



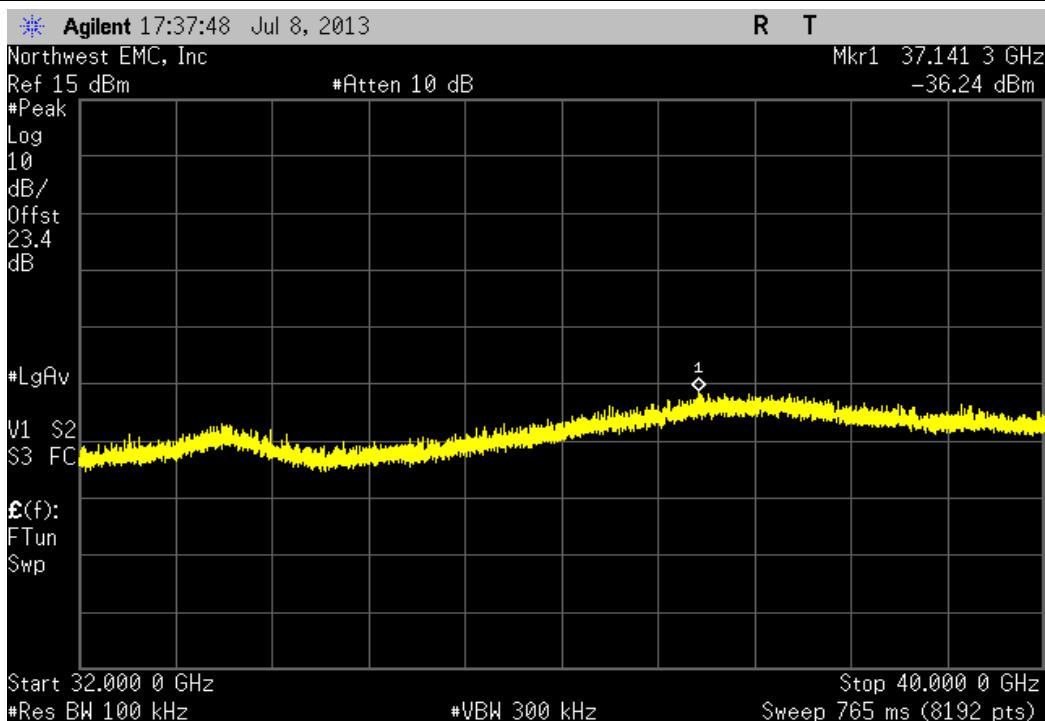
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -48.98 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -46.32 dBc | ≤ -20 dBc | Pass   |

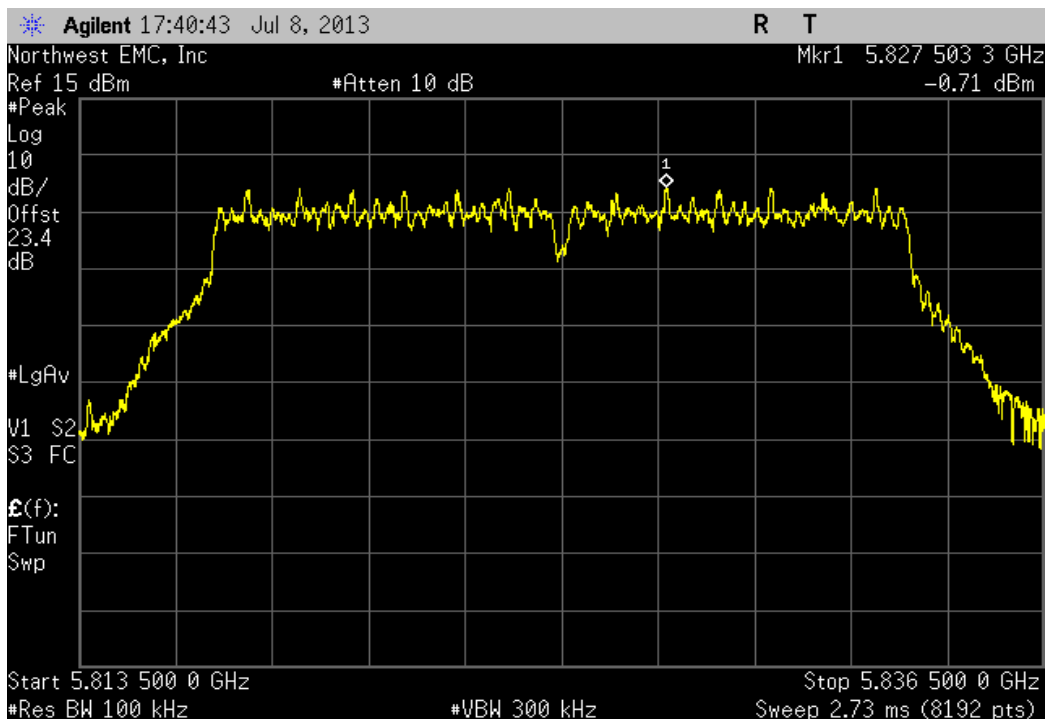


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -37.09 dBc | ≤ -20 dBc | Pass   |

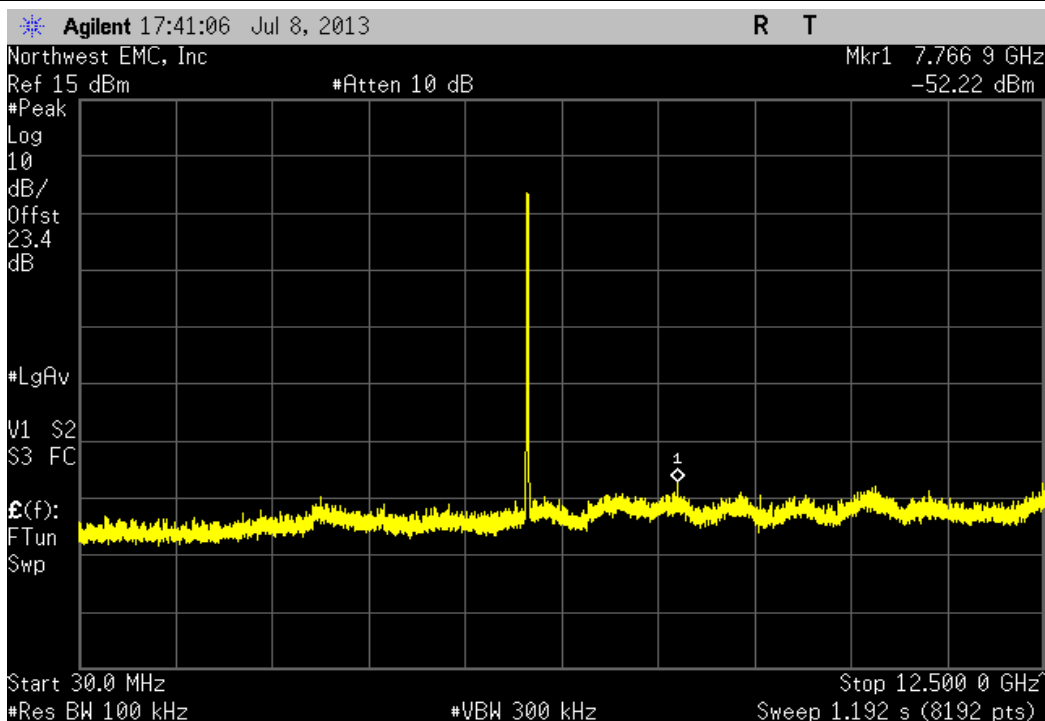




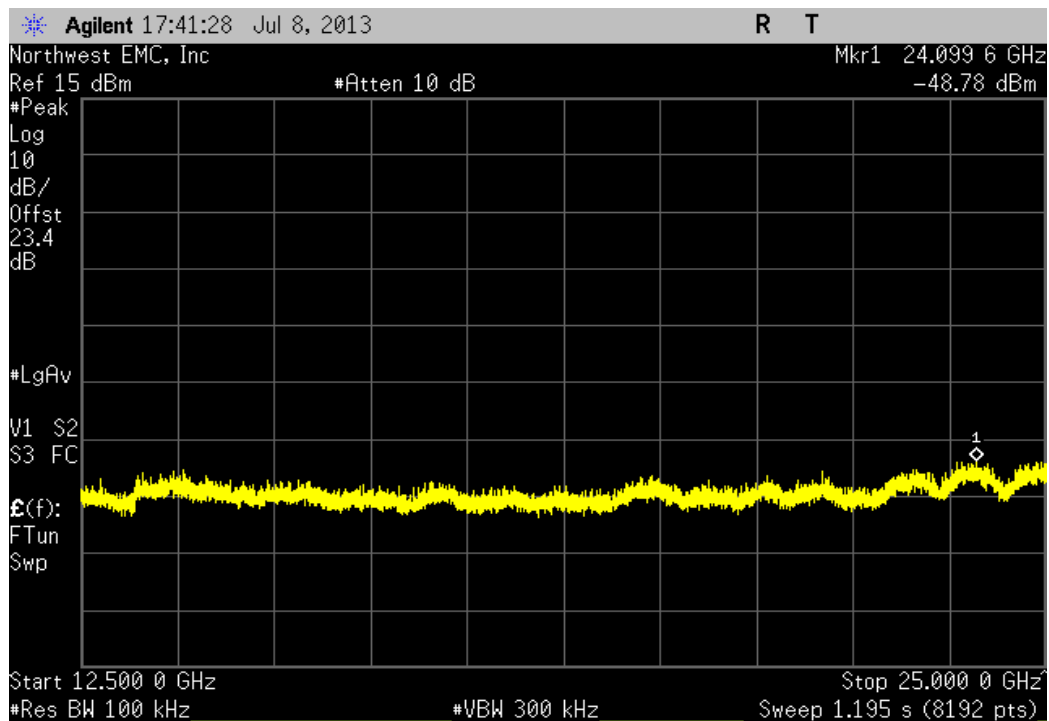
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                 |  |  |  | Value | Limit | Result |
| Fundamental                                                                     |  |  |  | N/A   | N/A   | N/A    |



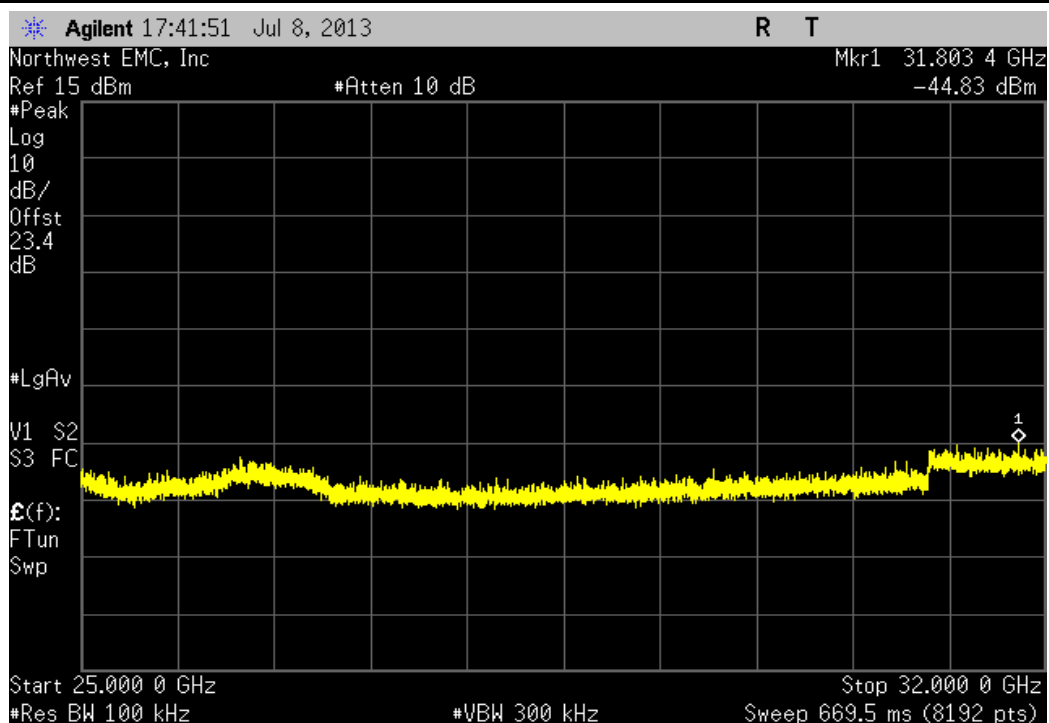
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |  |  |            |           |        |
|---------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                 |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  |  |  | -51.51 dBc | ≤ -20 dBc | Pass   |



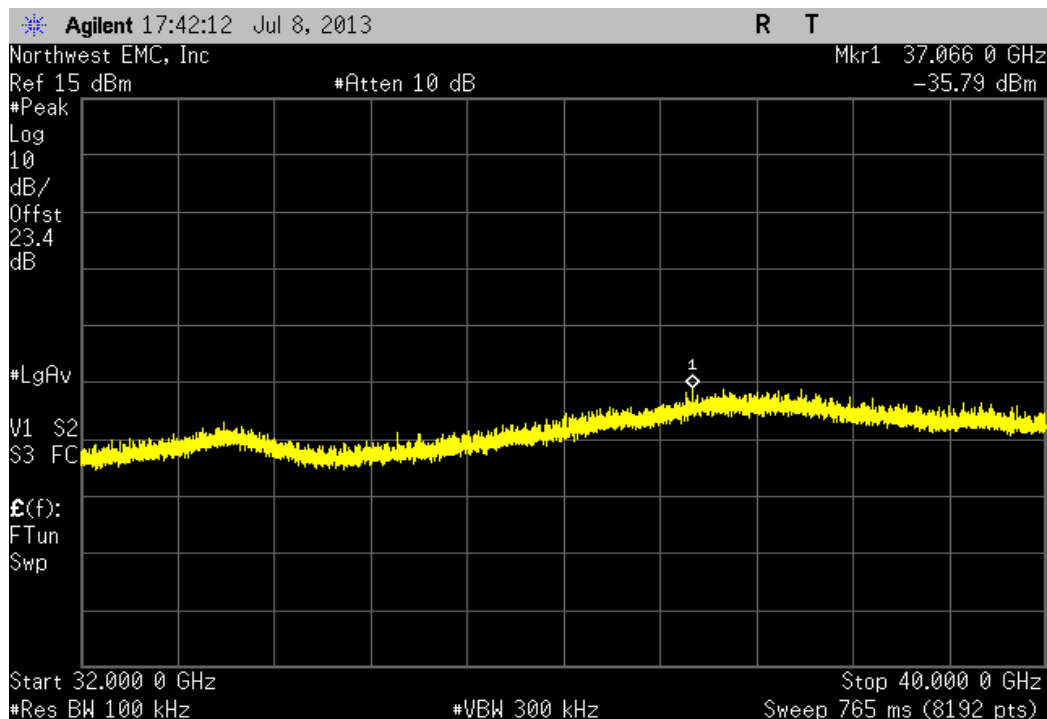
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -48.07 dBc | ≤ -20 dBc | Pass   |  |



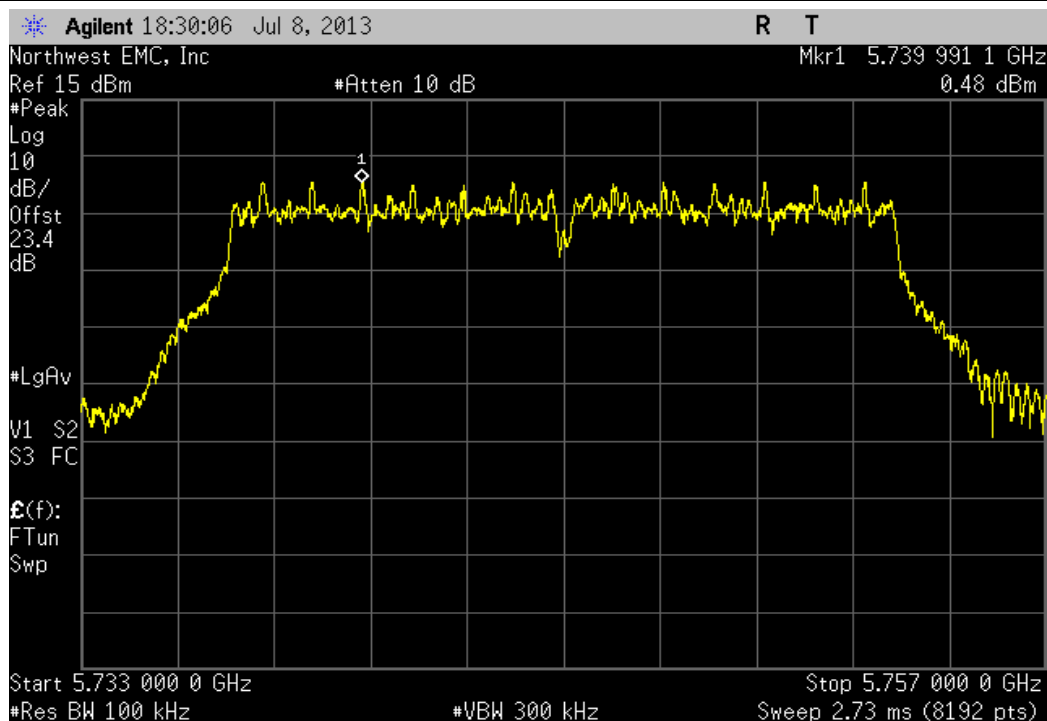
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                 | -44.12 dBc | ≤ -20 dBc | Pass   |  |



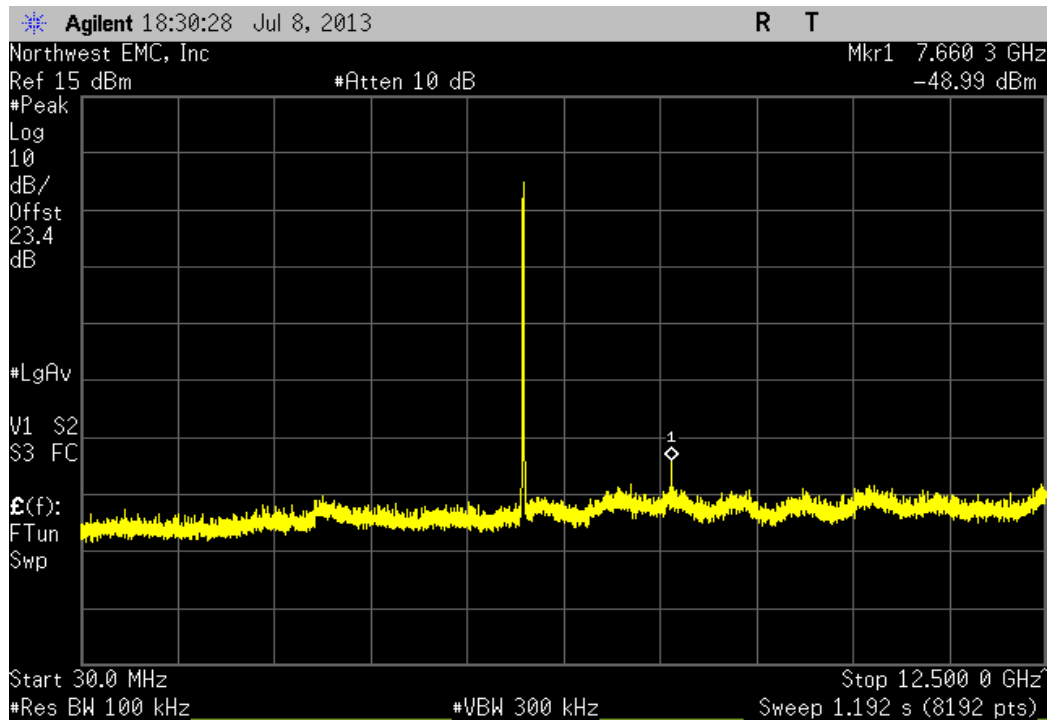
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |  |            |           |        |  |
|---------------------------------------------------------------------------------|--|--|------------|-----------|--------|--|
| Frequency Range                                                                 |  |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                 |  |  | -35.08 dBc | ≤ -20 dBc | Pass   |  |



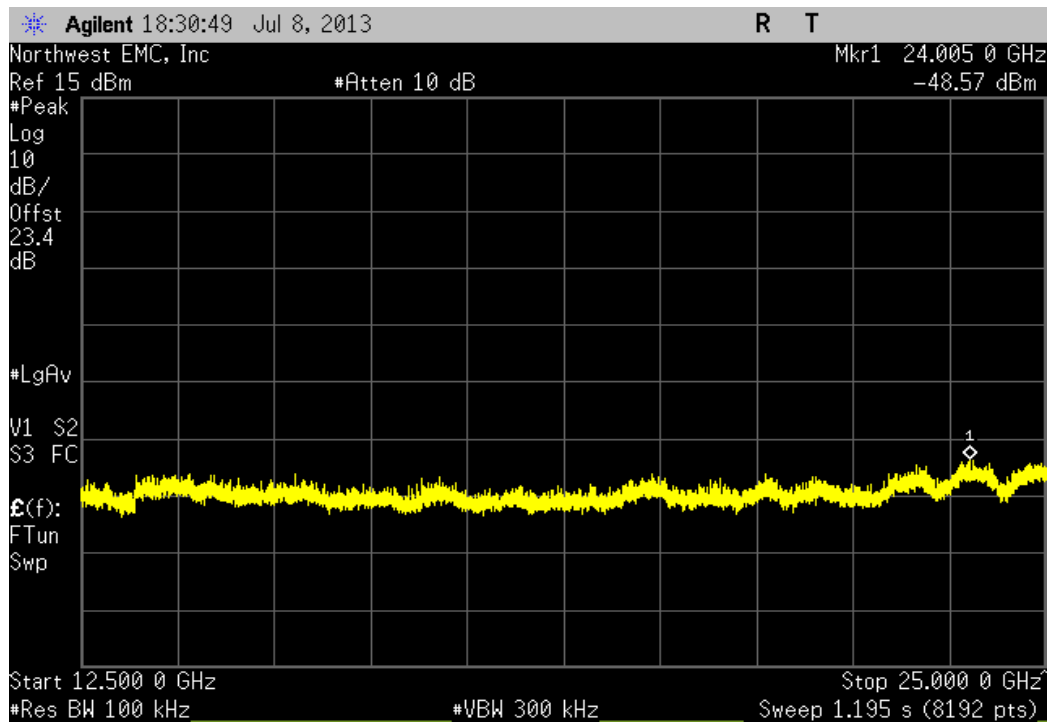
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |  |  |       |       |        |  |
|--------------------------------------------------------------------------------|--|--|-------|-------|--------|--|
| Frequency Range                                                                |  |  | Value | Limit | Result |  |
| Fundamental                                                                    |  |  | N/A   | N/A   | N/A    |  |



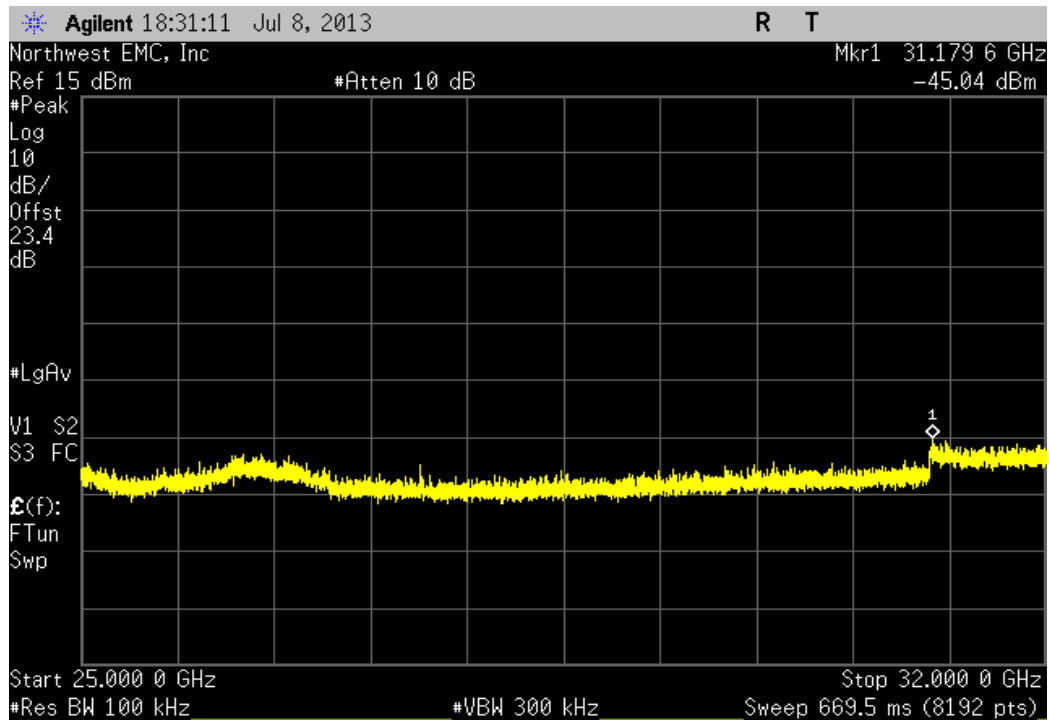
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -49.47 dBc | ≤ -20 dBc | Pass   |  |



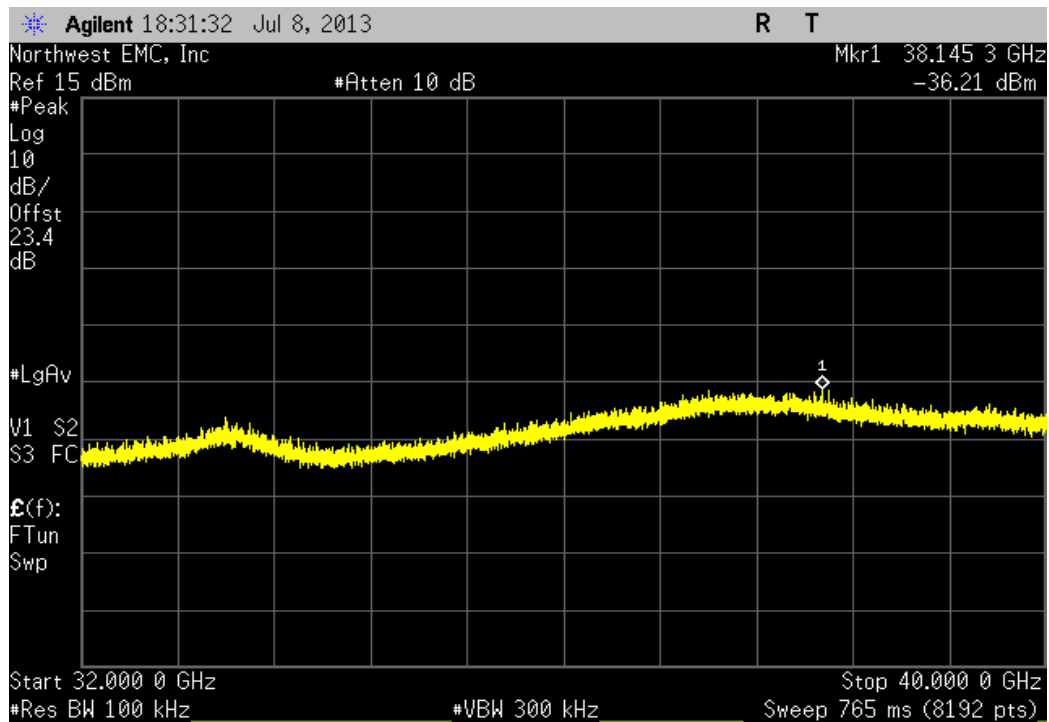
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -49.05 dBc | ≤ -20 dBc | Pass   |  |



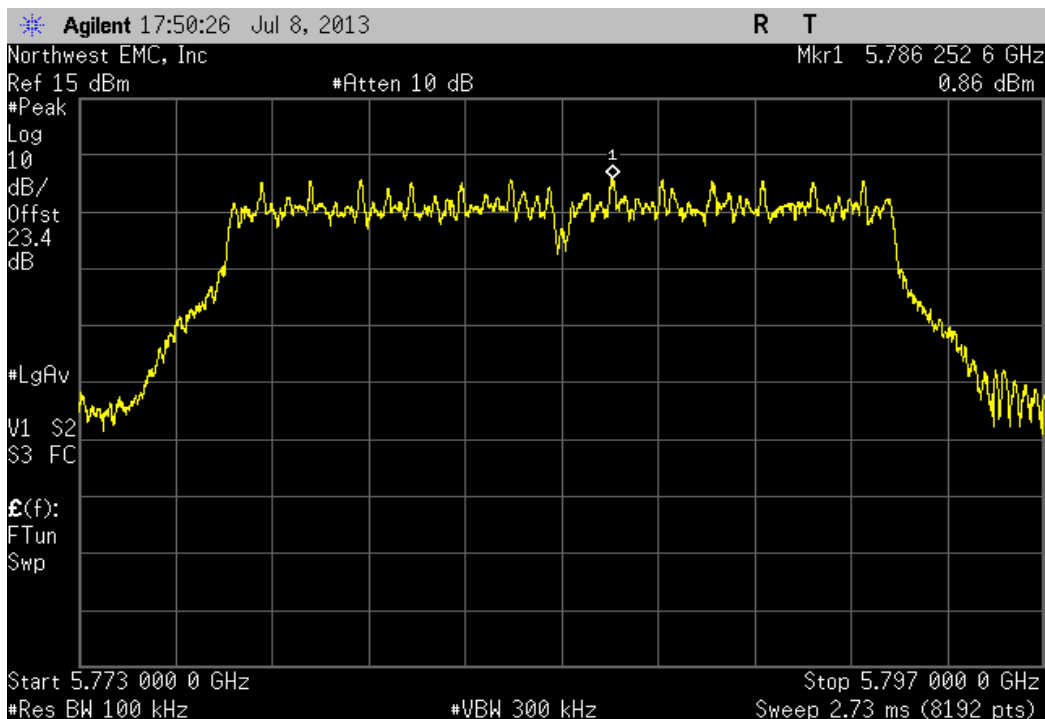
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -45.52 dBc | ≤ -20 dBc | Pass   |



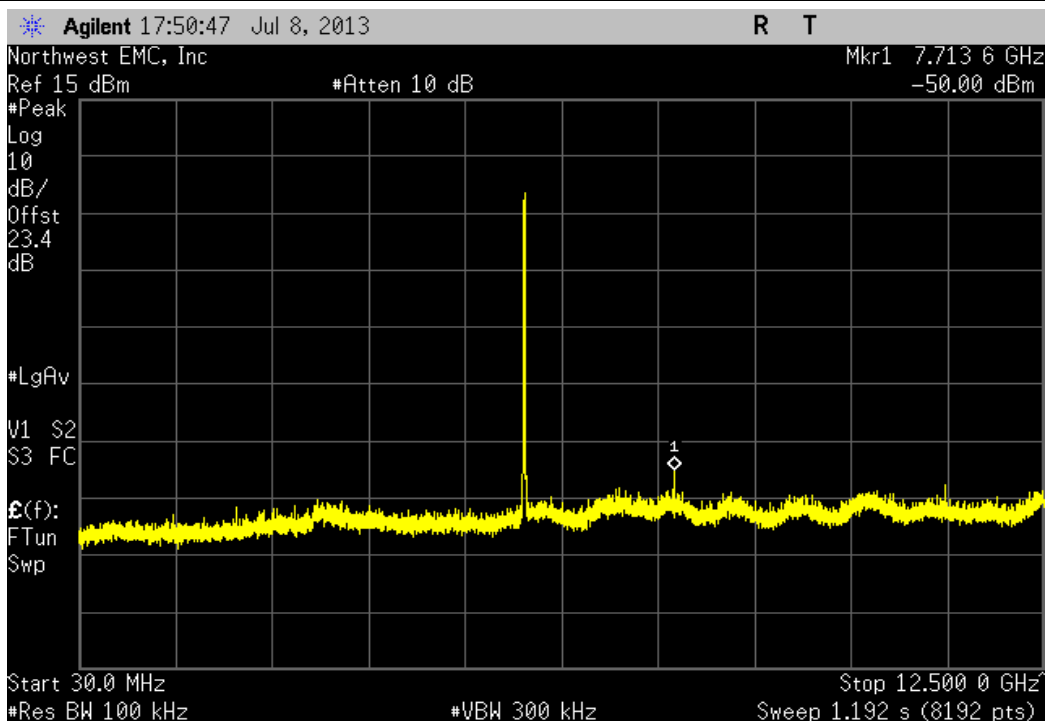
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -36.69 dBc | ≤ -20 dBc | Pass   |



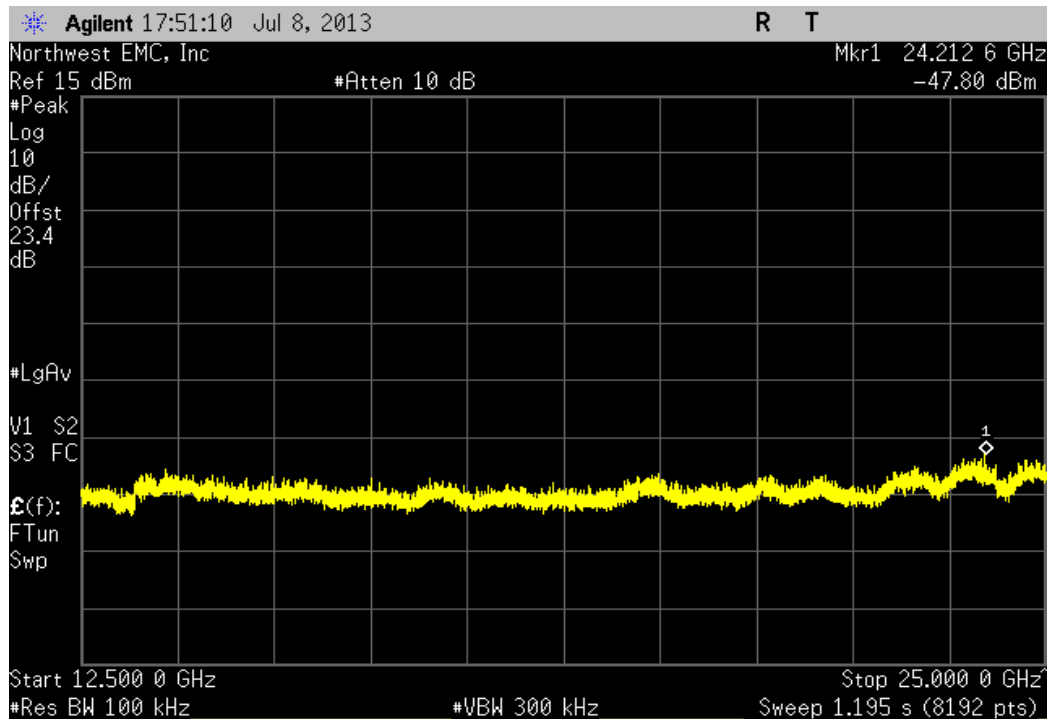
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |             |  |  |       |       |        |
|--------------------------------------------------------------------------------|-------------|--|--|-------|-------|--------|
| Frequency Range                                                                |             |  |  | Value | Limit | Result |
|                                                                                | Fundamental |  |  | N/A   | N/A   | N/A    |



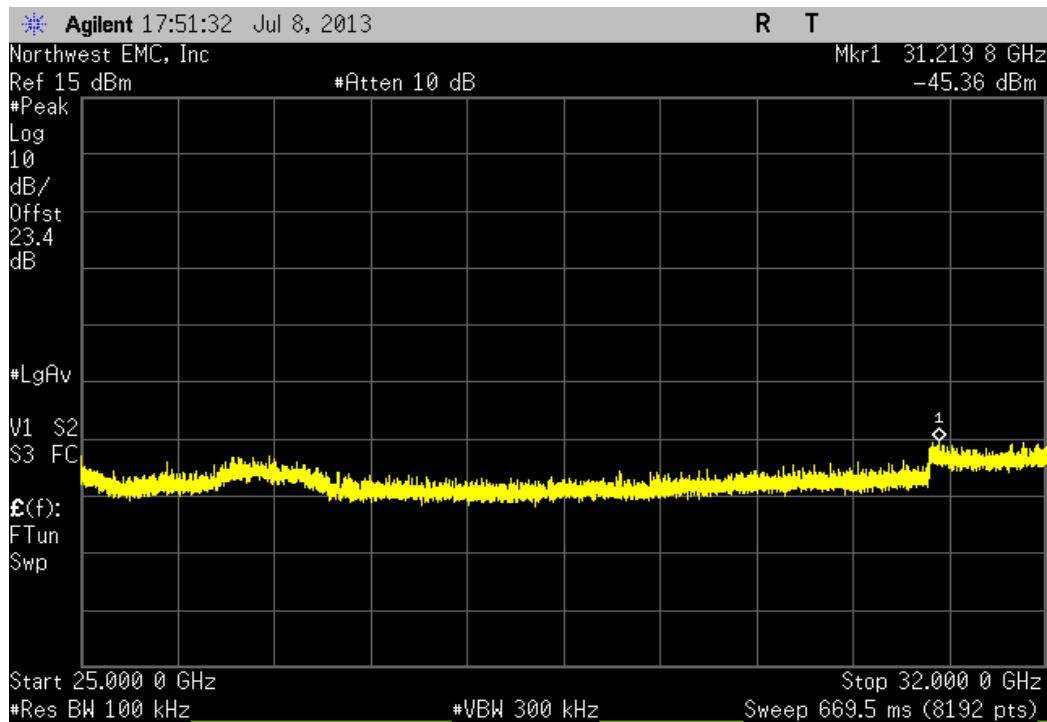
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |                   |  |  |            |           |        |
|--------------------------------------------------------------------------------|-------------------|--|--|------------|-----------|--------|
| Frequency Range                                                                |                   |  |  | Value      | Limit     | Result |
|                                                                                | 30 MHz - 12.5 GHz |  |  | -50.86 dBc | ≤ -20 dBc | Pass   |



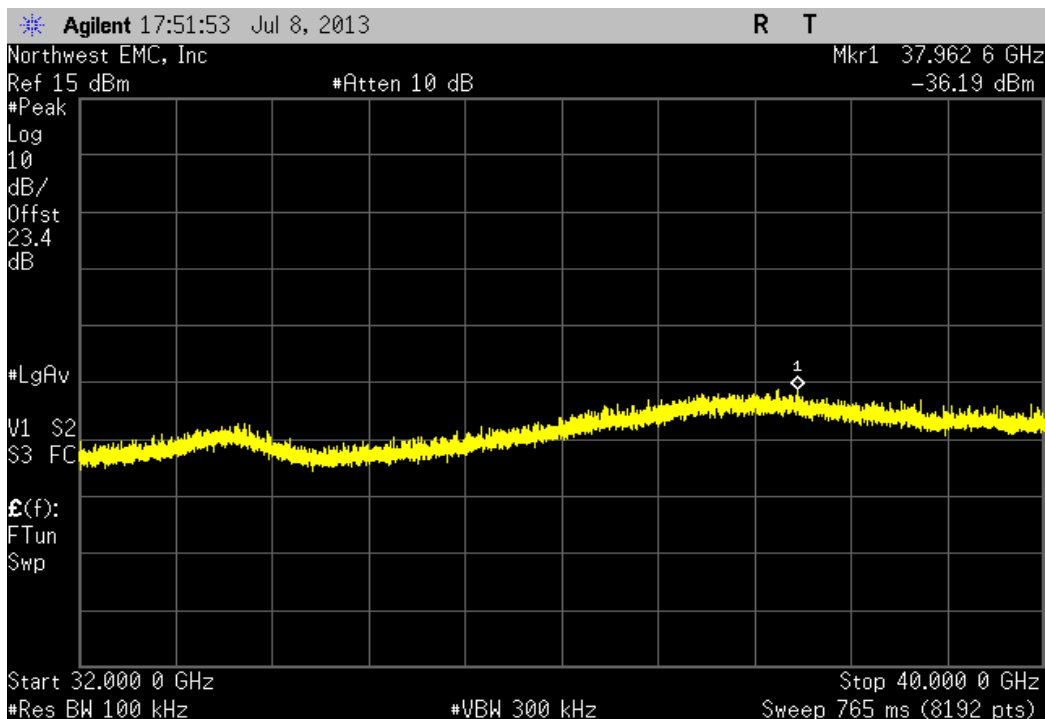
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -48.66 dBc | ≤ -20 dBc | Pass   |  |



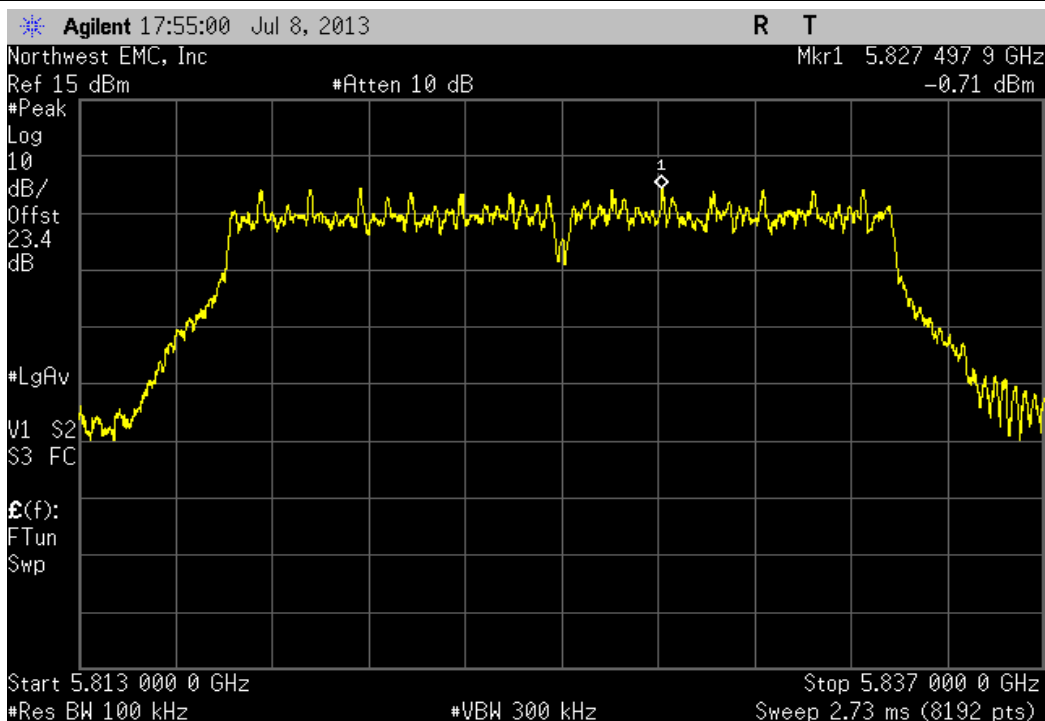
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                | -46.22 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |            |           |        |
|--------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                | -37.05 dBc | ≤ -20 dBc | Pass   |

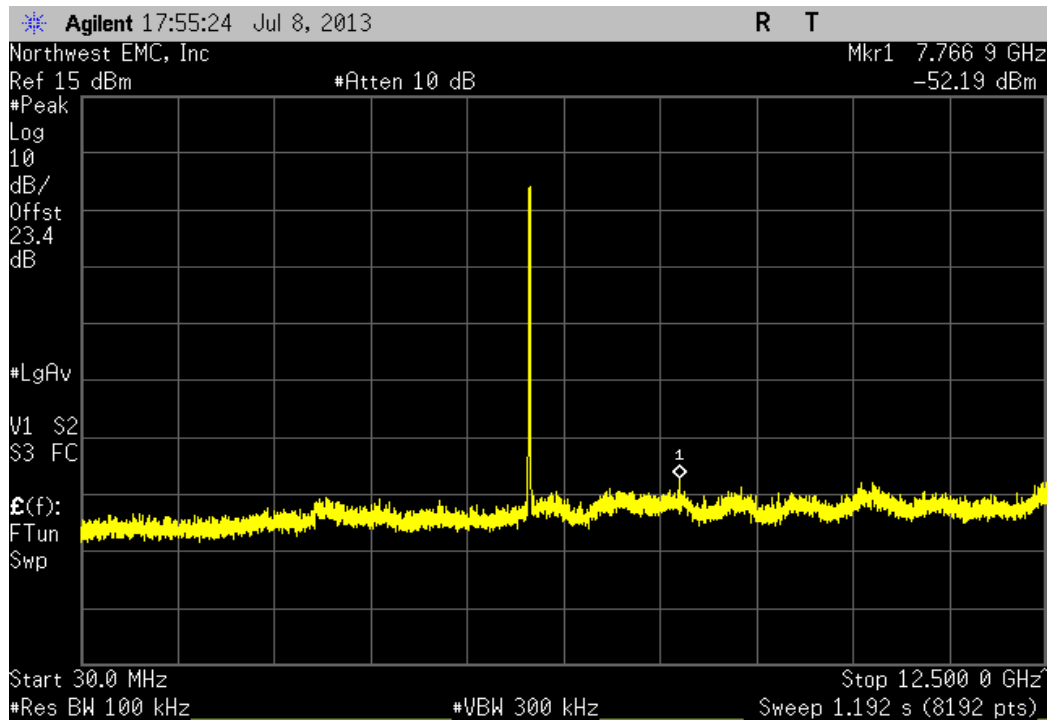


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |       |       |        |
|---------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                 | Value | Limit | Result |
| Fundamental                                                                     | N/A   | N/A   | N/A    |

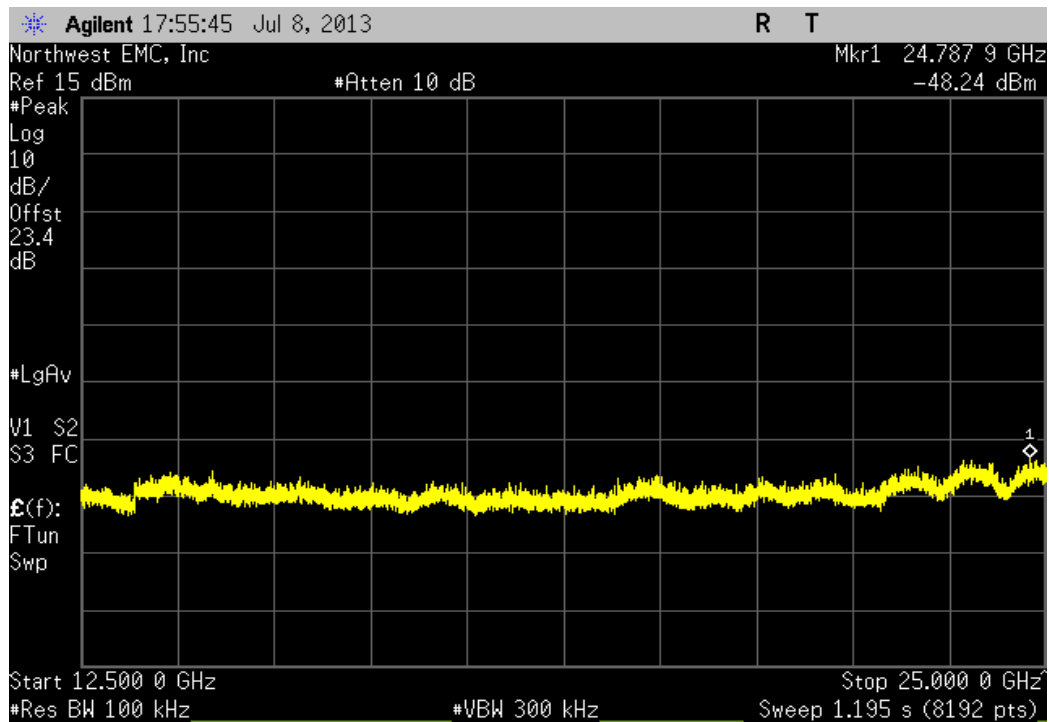




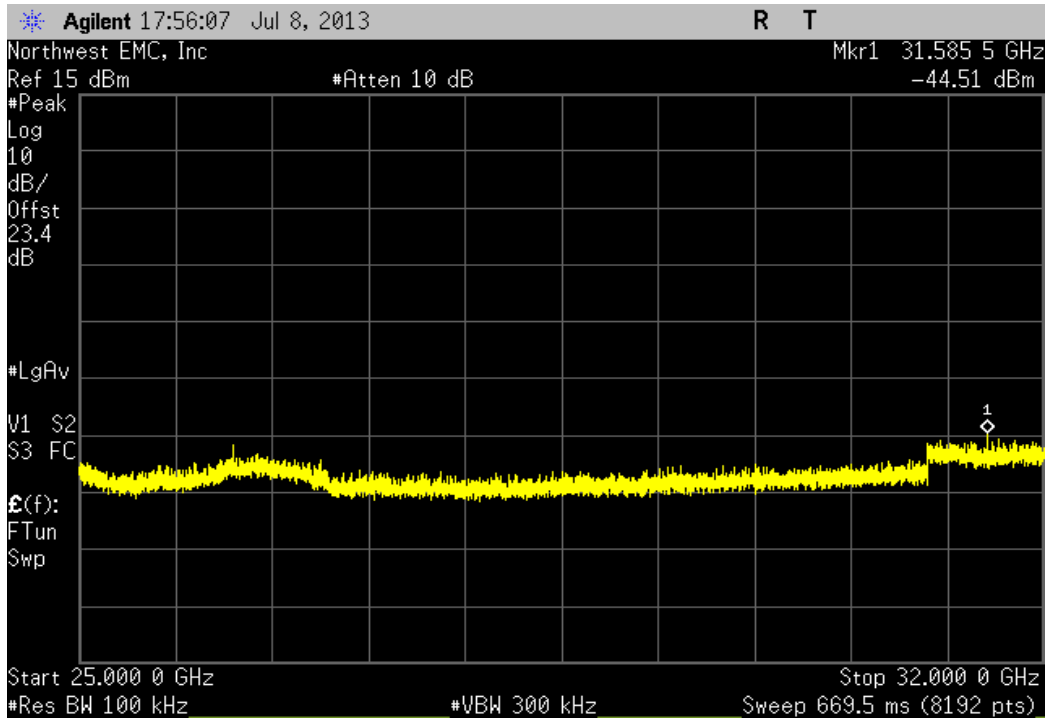
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                               | -51.48 dBc | ≤ -20 dBc | Pass   |  |



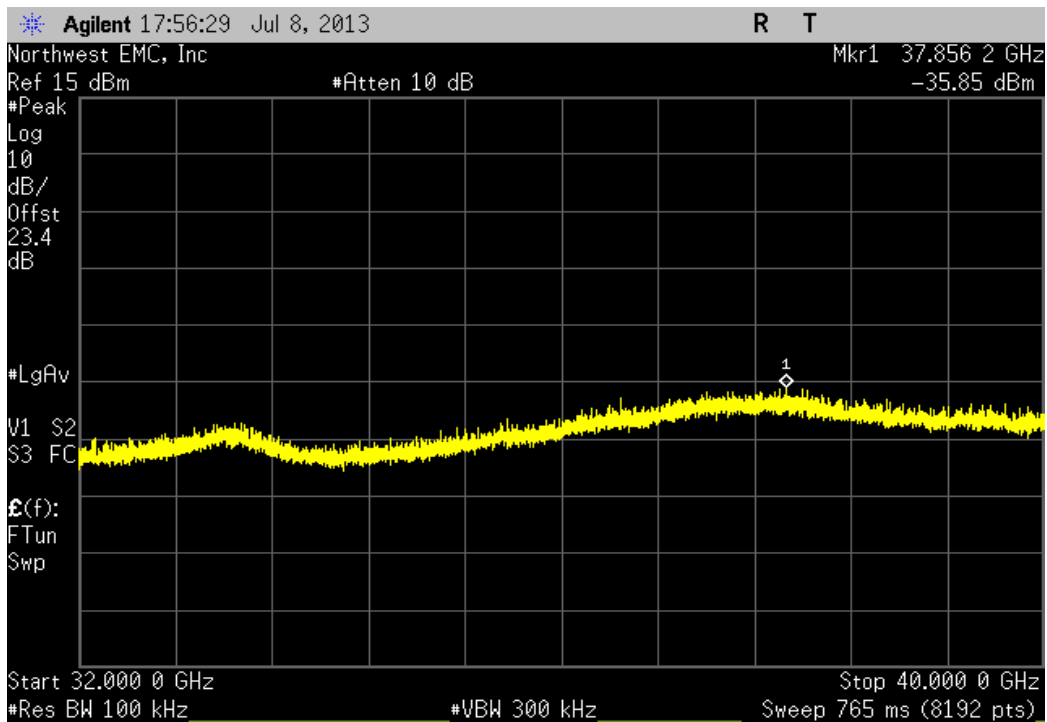
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -47.53 dBc | ≤ -20 dBc | Pass   |  |



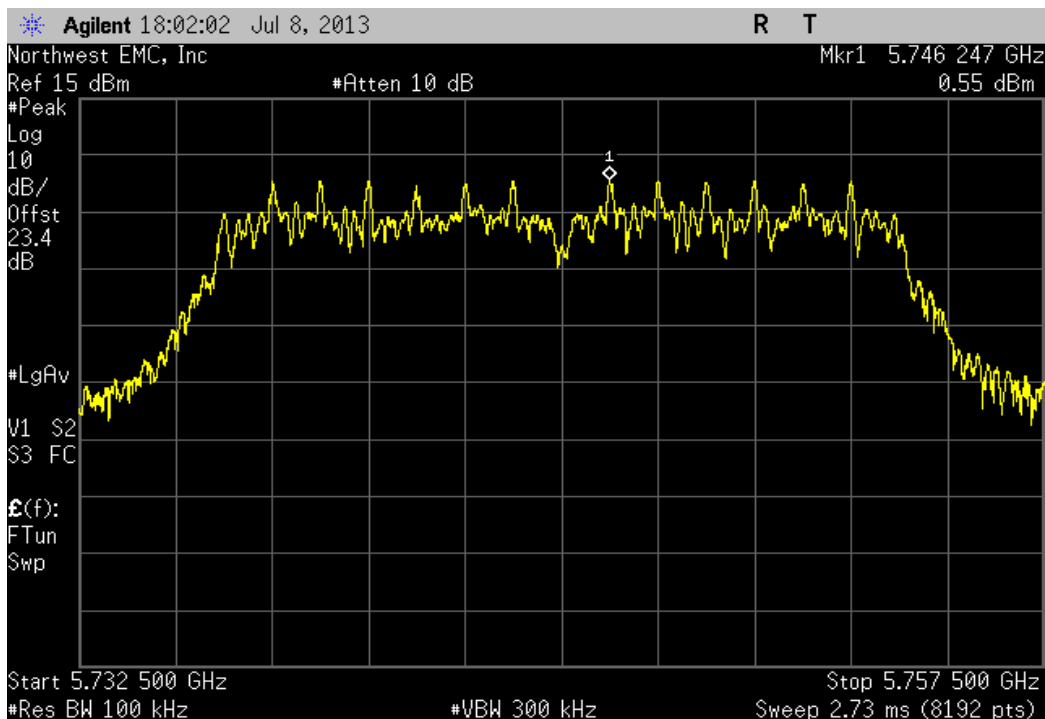
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |  |           |           |        |
|---------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                 |  | Value     | Limit     | Result |
| 25 GHz - 32 GHz                                                                 |  | -43.8 dBc | ≤ -20 dBc | Pass   |



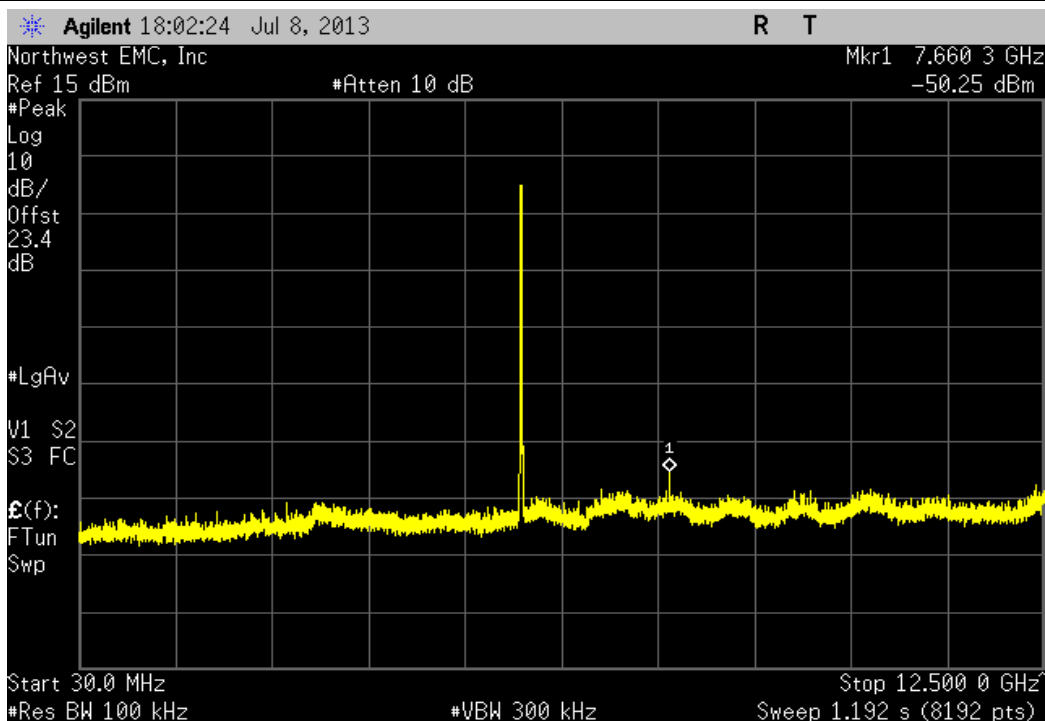
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                 |  | -35.14 dBc | ≤ -20 dBc | Pass   |



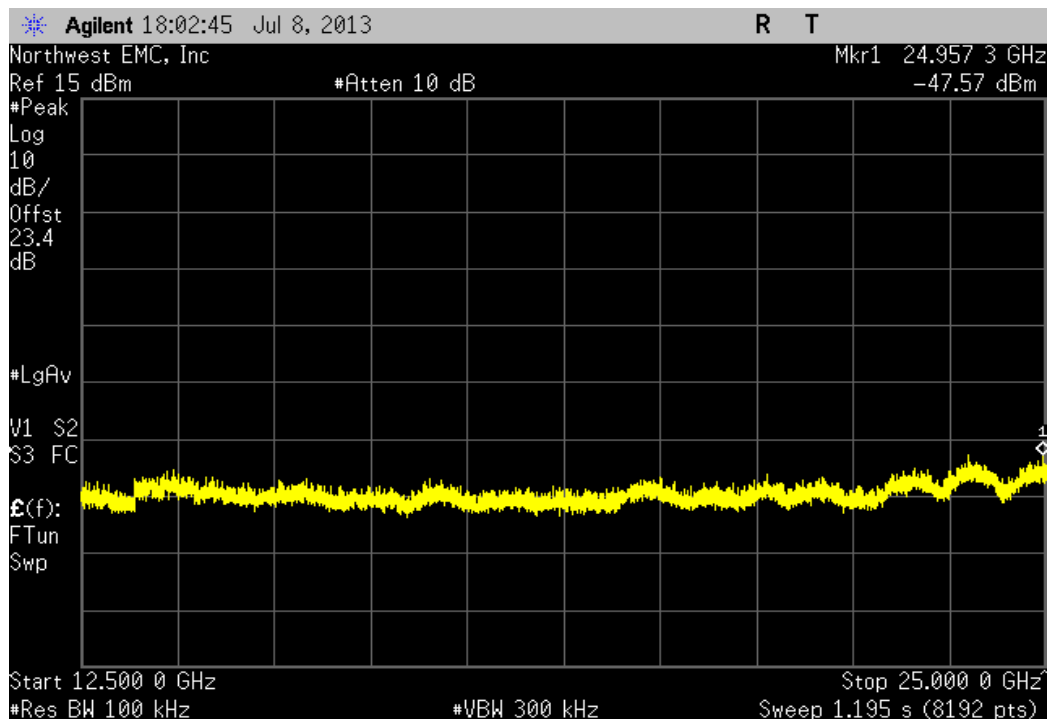
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |  |       |       |        |
|------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                    |  | Value | Limit | Result |
| Fundamental                                                                        |  | N/A   | N/A   | N/A    |



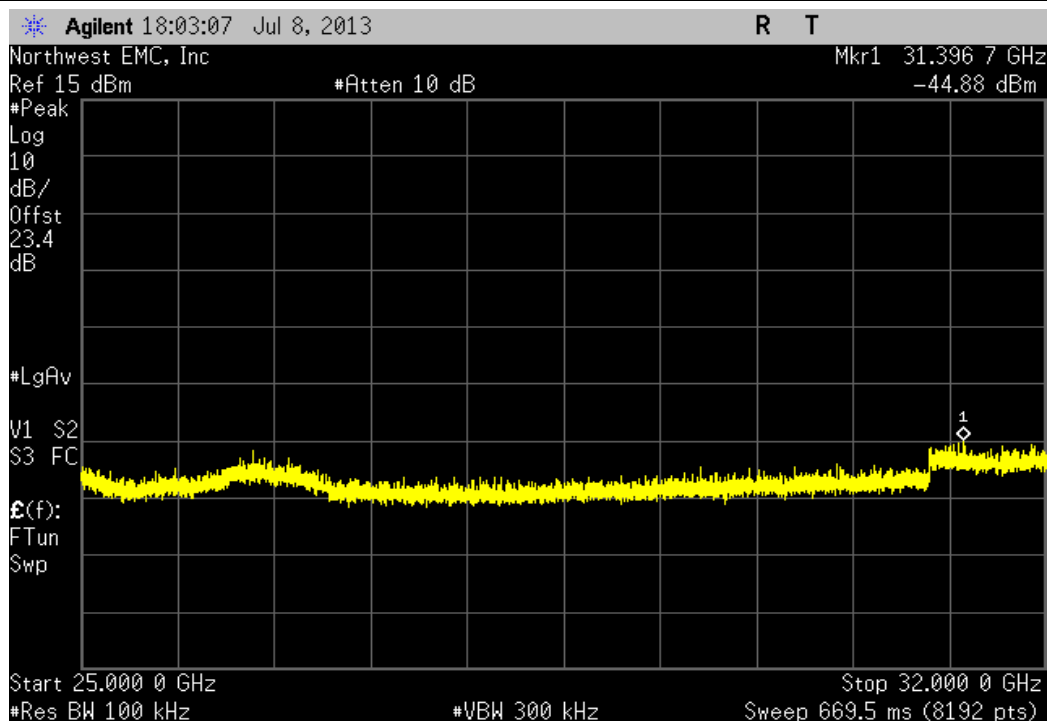
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |  |           |           |        |
|------------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                    |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                  |  | -50.8 dBc | ≤ -20 dBc | Pass   |



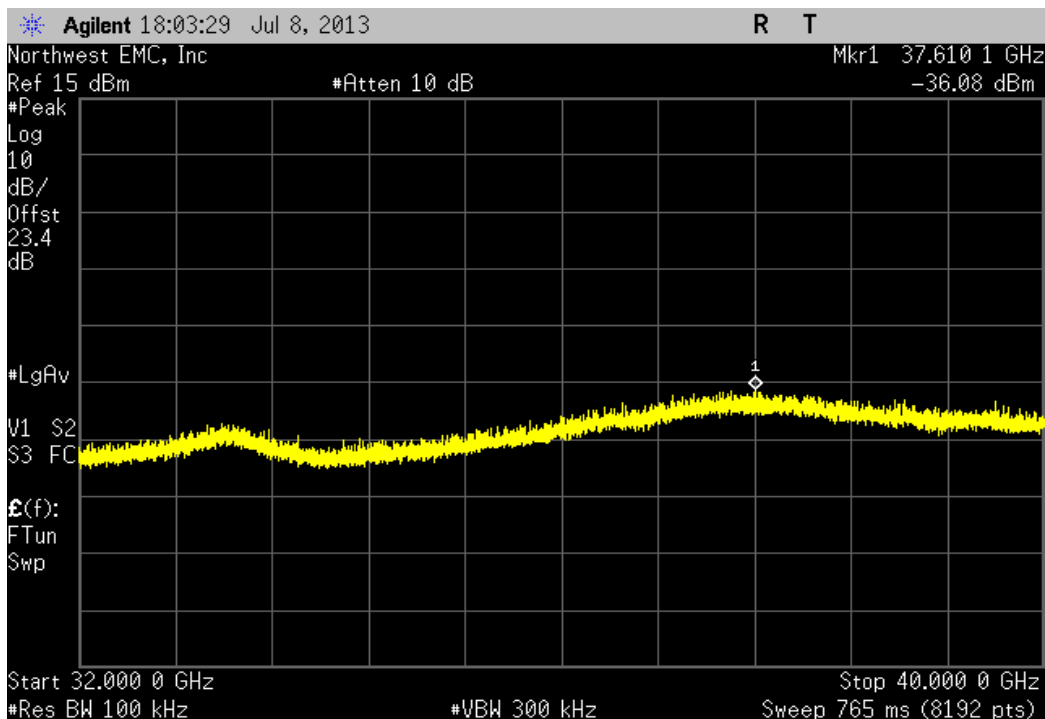
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -48.12 dBc | ≤ -20 dBc | Pass   |  |



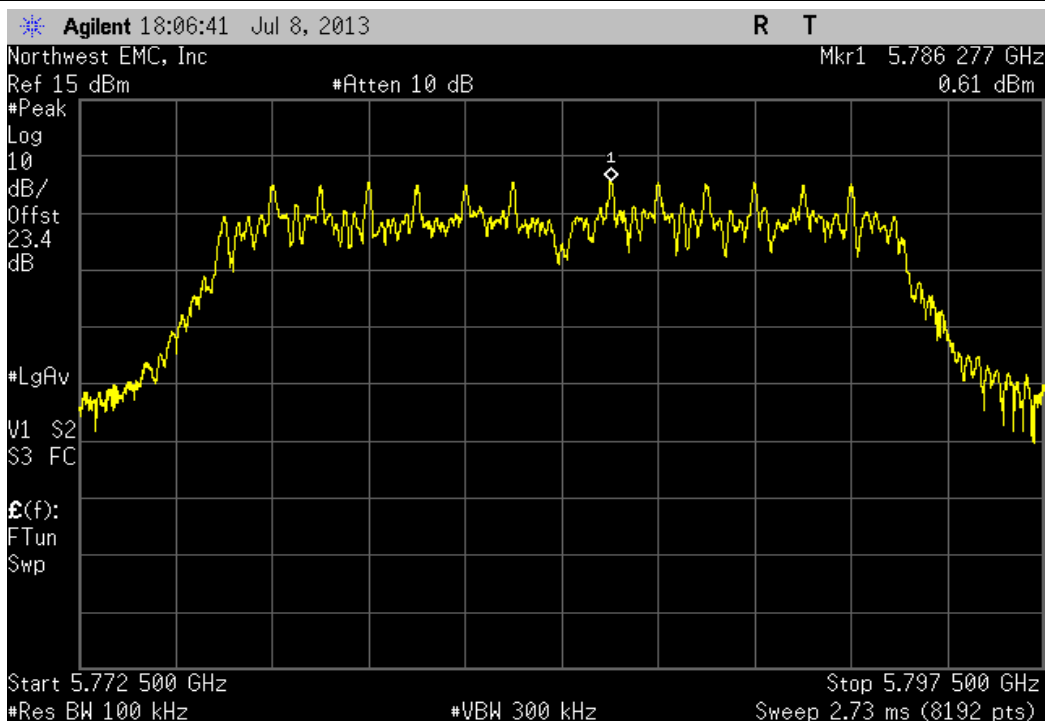
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -45.43 dBc | ≤ -20 dBc | Pass   |  |



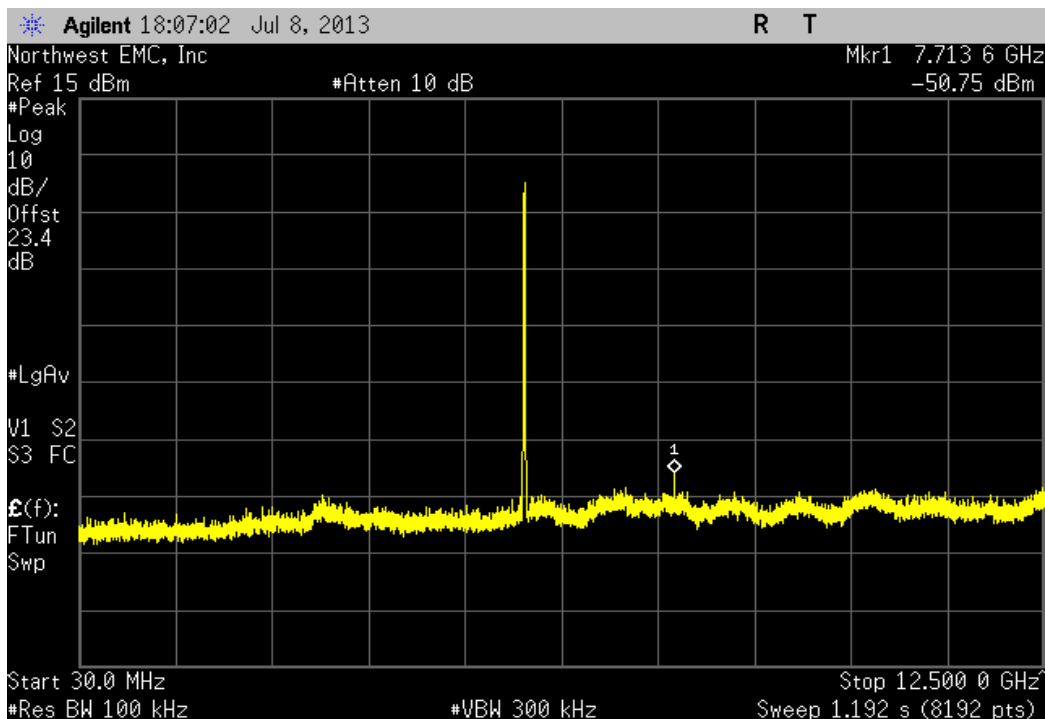
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |            |           |        |
|------------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                    | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                    | -36.63 dBc | ≤ -20 dBc | Pass   |



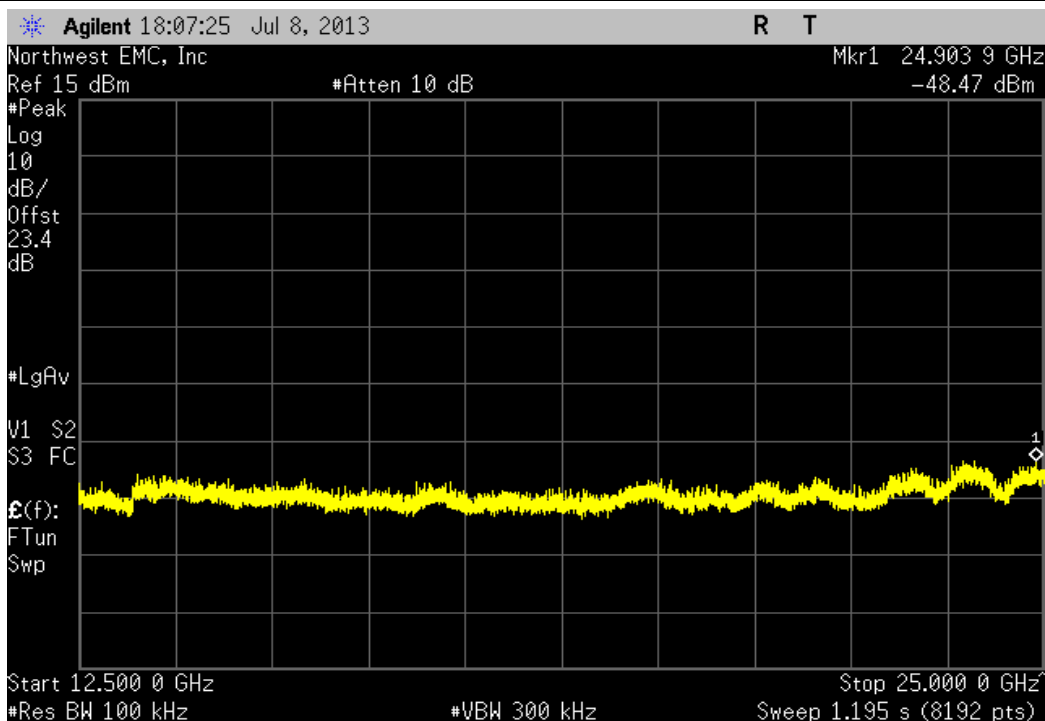
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |       |       |        |
|------------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                    | Value | Limit | Result |
| Fundamental                                                                        | N/A   | N/A   | N/A    |



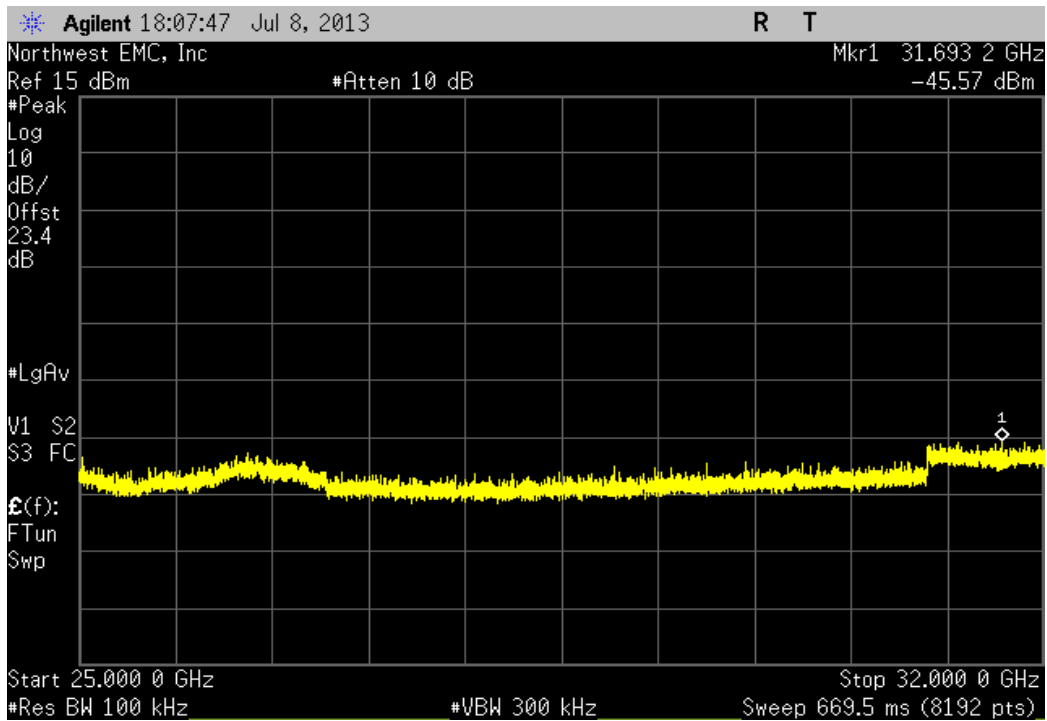
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                  | -51.36 dBc | ≤ -20 dBc | Pass   |  |



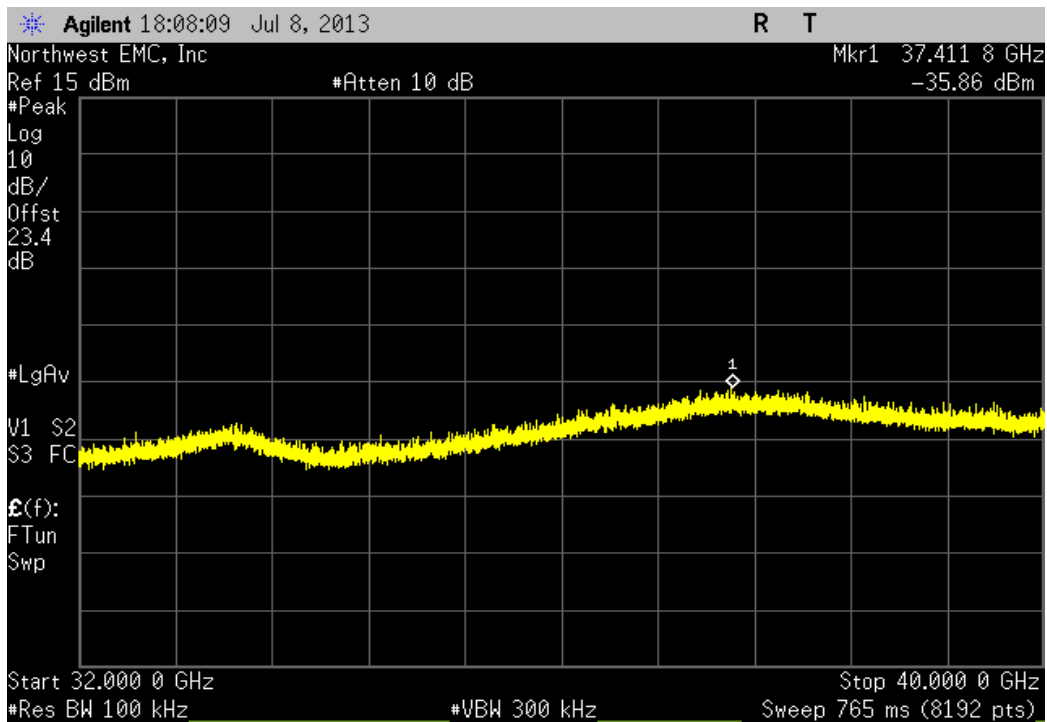
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -49.08 dBc | ≤ -20 dBc | Pass   |  |



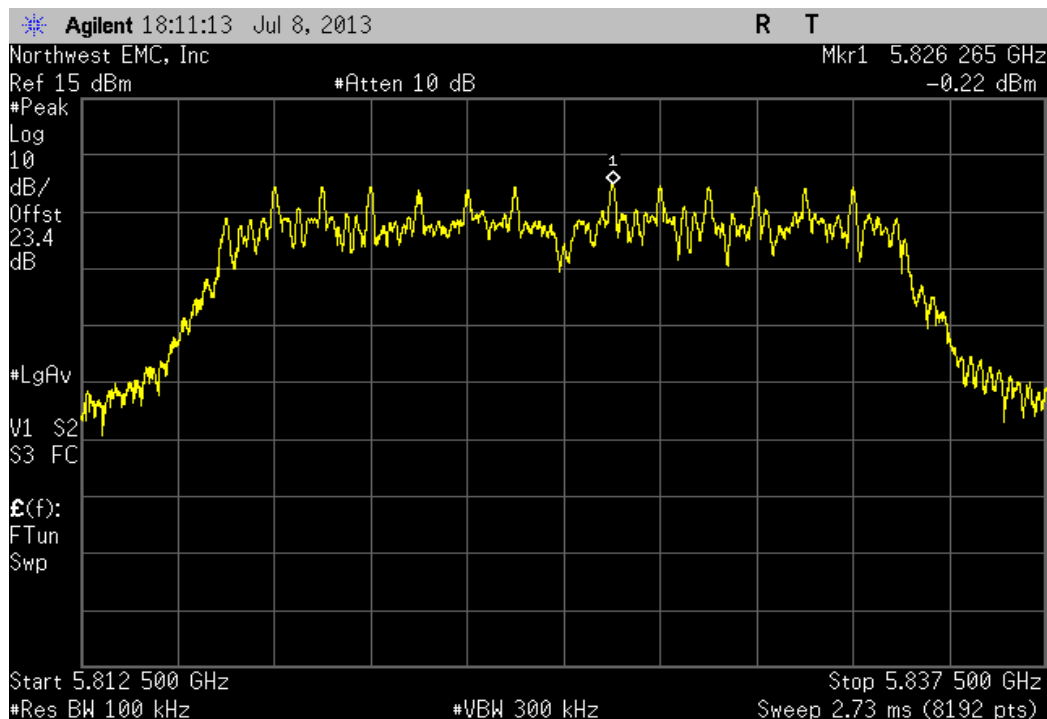
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -46.18 dBc | ≤ -20 dBc | Pass   |  |



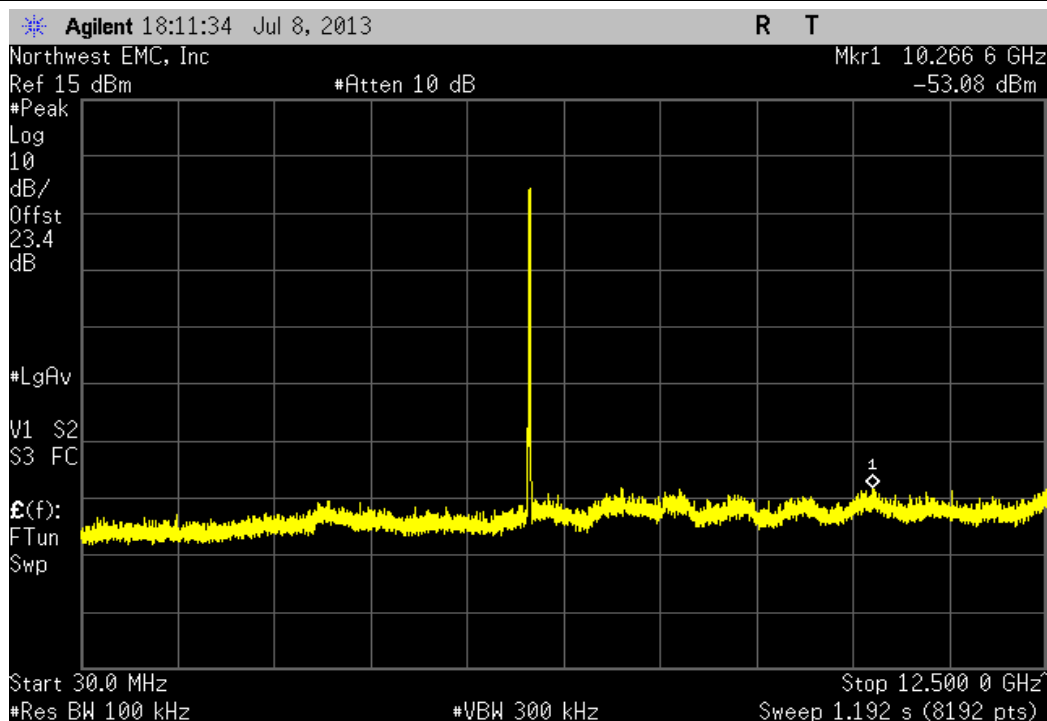
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                    | -36.47 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |  |       |       |        |
|-------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                     |  | Value | Limit | Result |
| Fundamental                                                                         |  | N/A   | N/A   | N/A    |

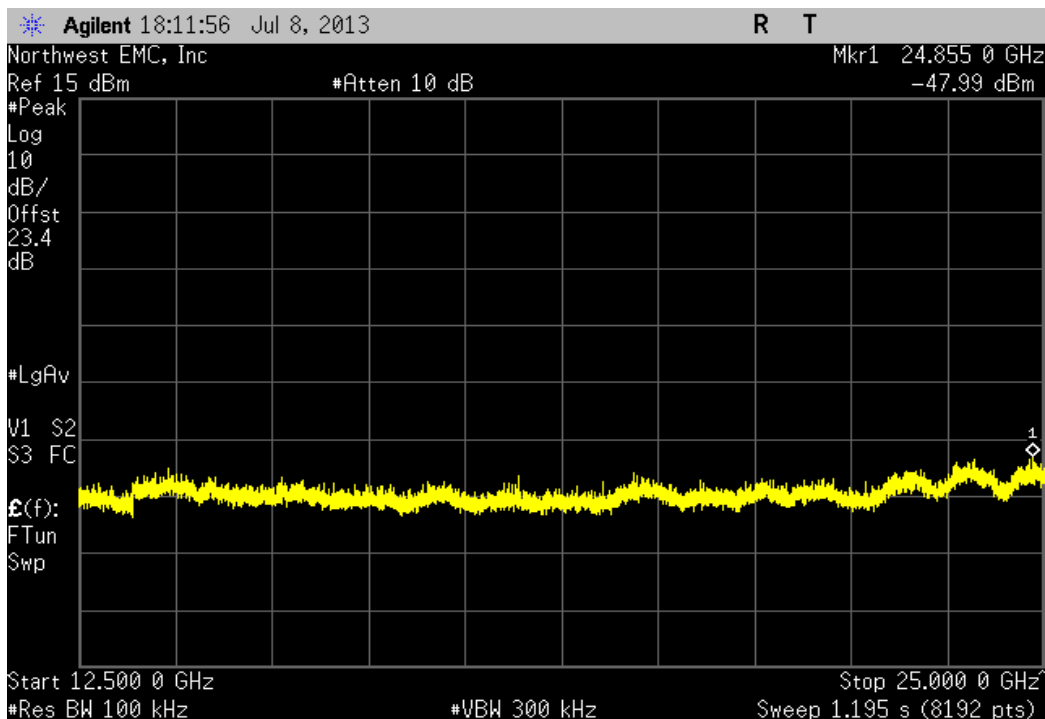


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |  |            |           |        |
|-------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                     |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                   |  | -52.86 dBc | ≤ -20 dBc | Pass   |

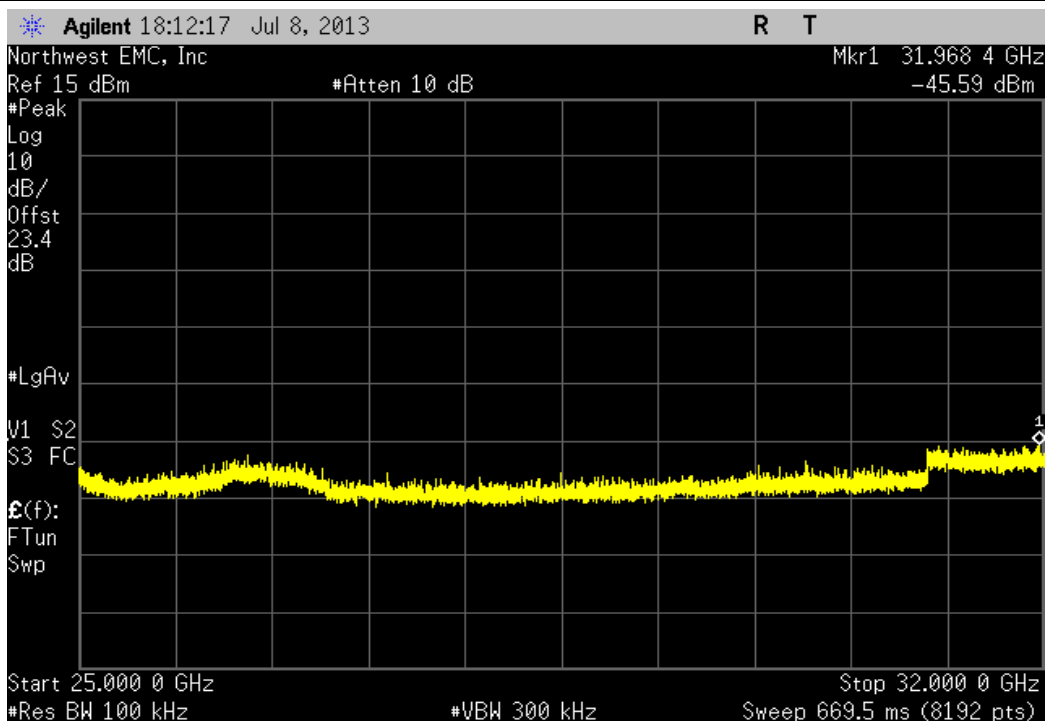




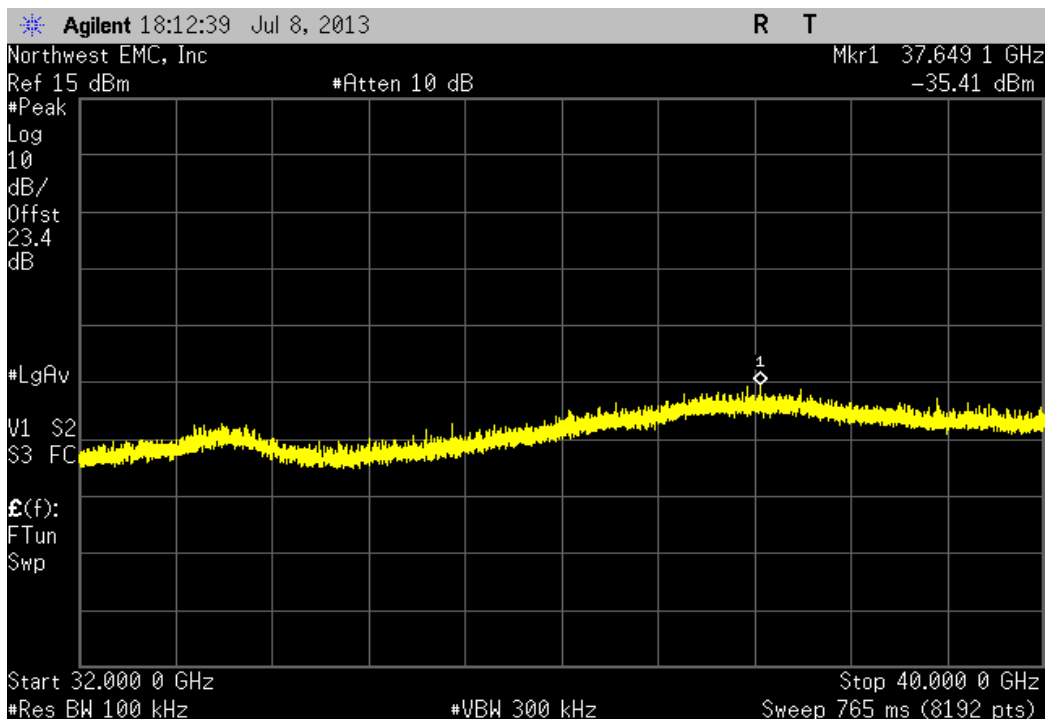
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                   | -47.77 dBc | ≤ -20 dBc | Pass   |  |



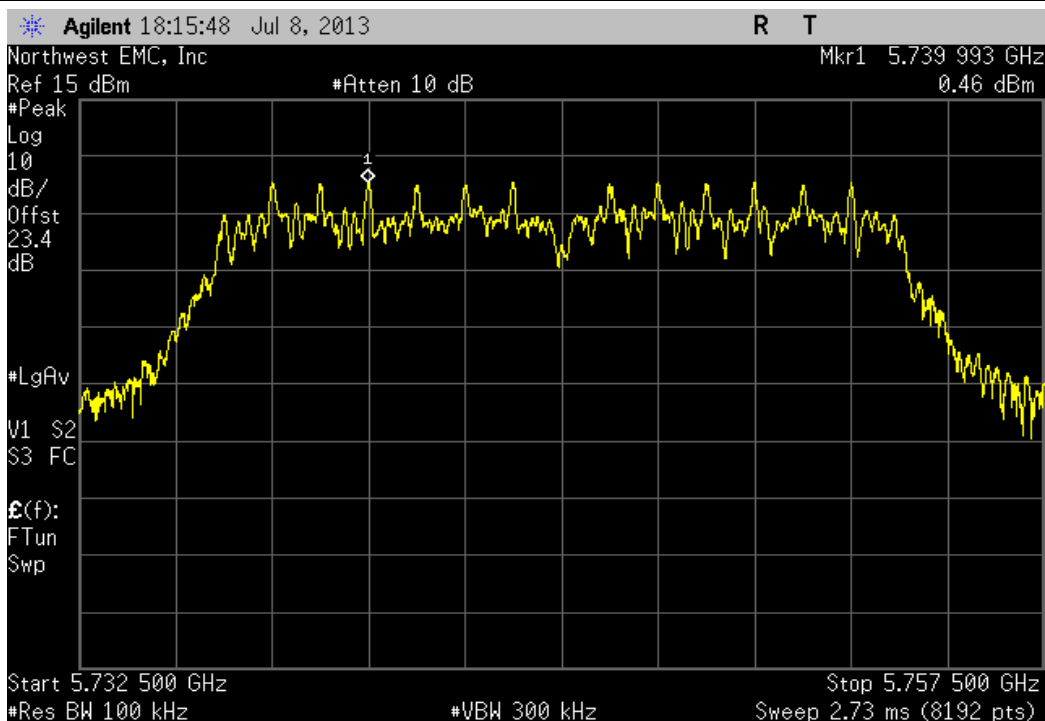
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                     | -45.37 dBc | ≤ -20 dBc | Pass   |  |



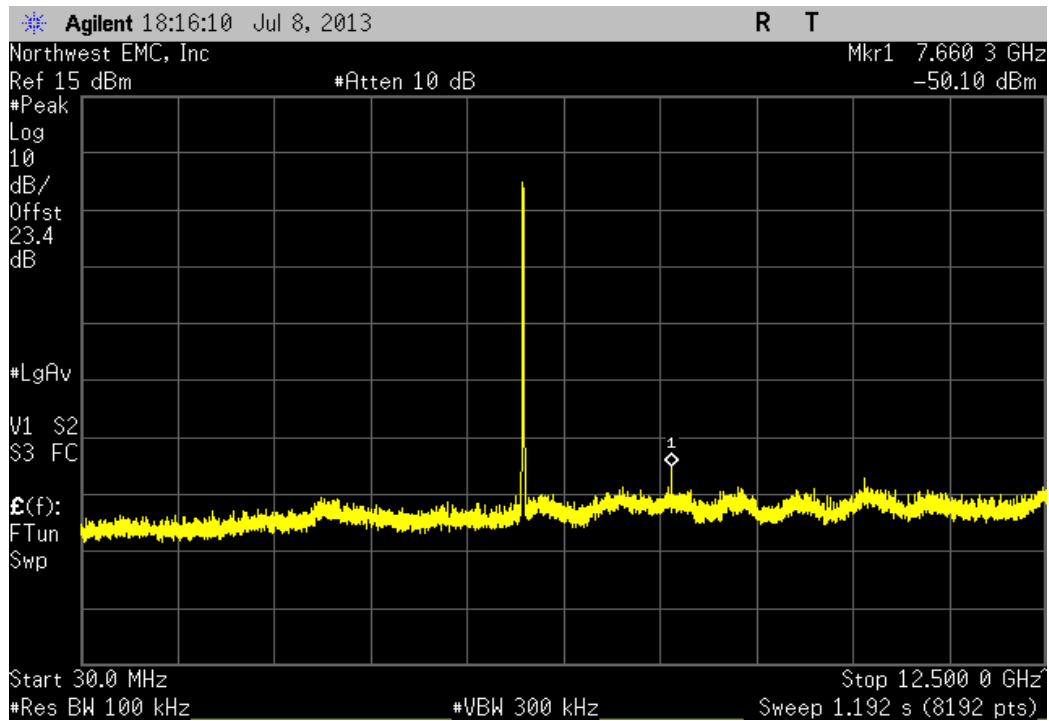
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |            |           |        |
|-------------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                     | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                     | -35.19 dBc | ≤ -20 dBc | Pass   |



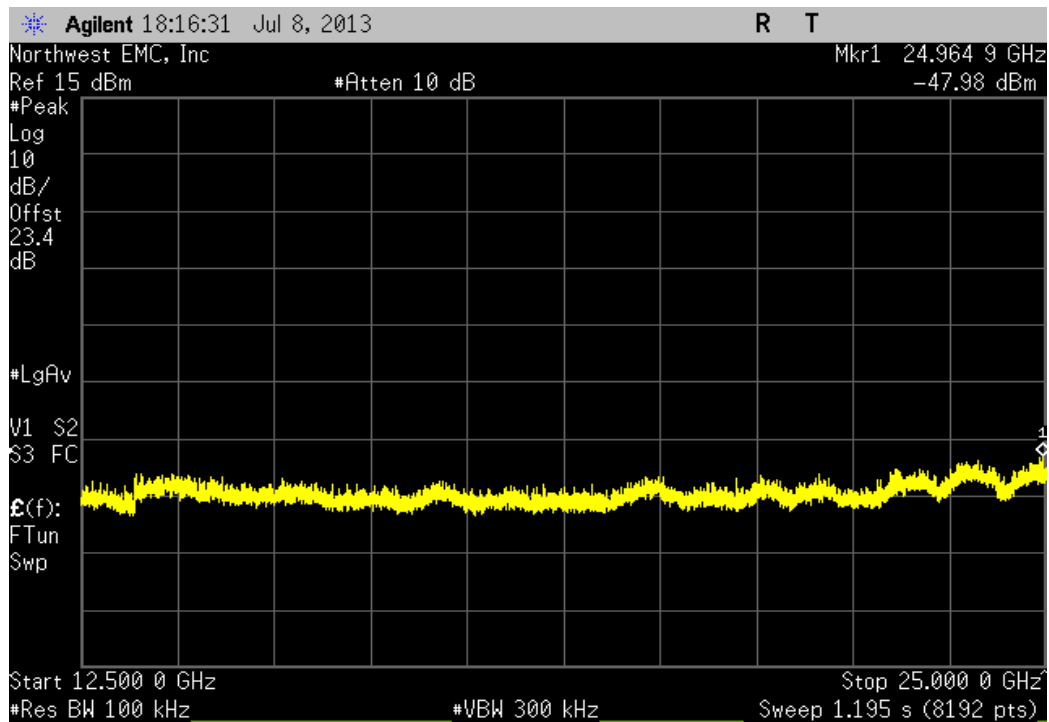
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |       |       |        |
|------------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                    | Value | Limit | Result |
| Fundamental                                                                        | N/A   | N/A   | N/A    |



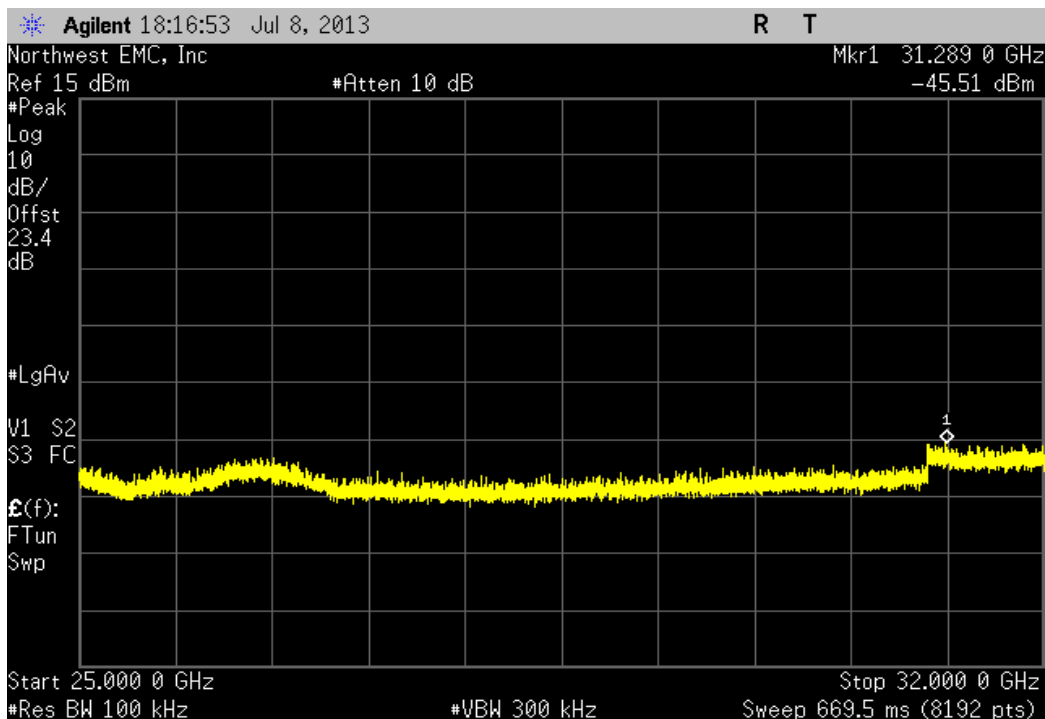
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                  | -50.56 dBc | ≤ -20 dBc | Pass   |  |



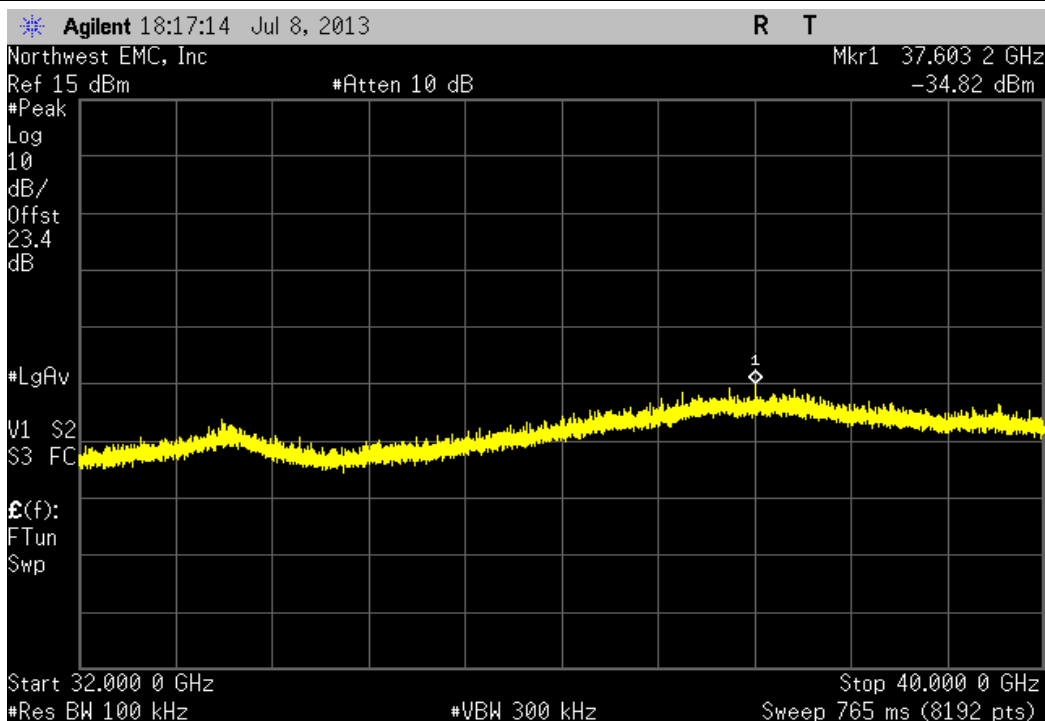
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -48.44 dBc | ≤ -20 dBc | Pass   |  |



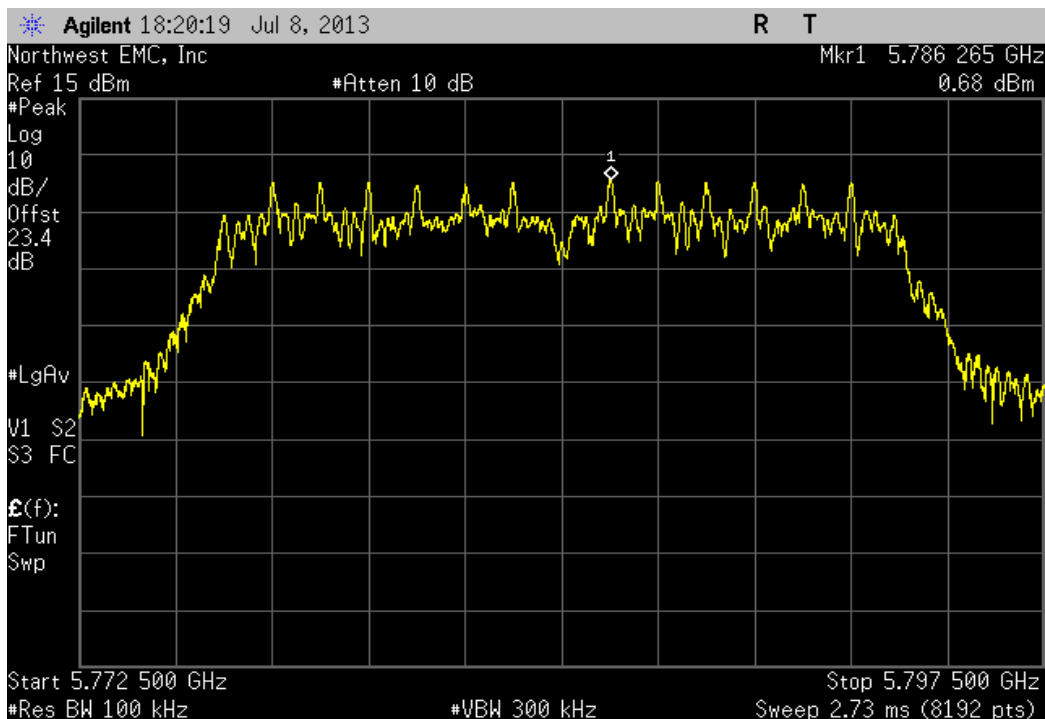
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -45.97 dBc | ≤ -20 dBc | Pass   |  |



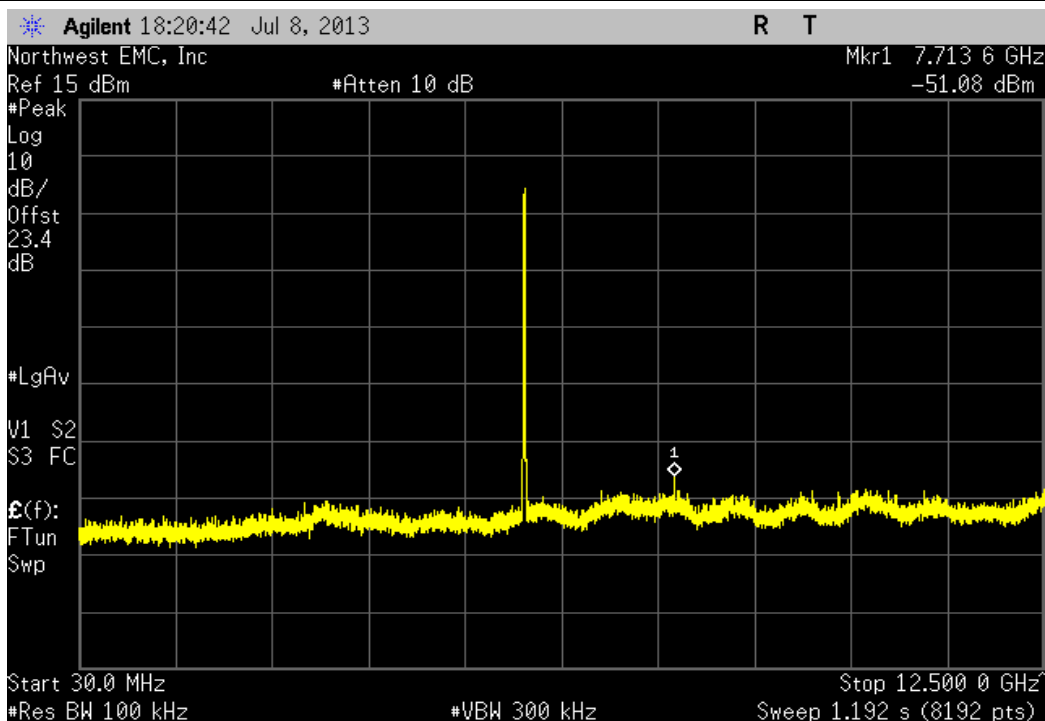
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                    | -35.28 dBc | ≤ -20 dBc | Pass   |  |



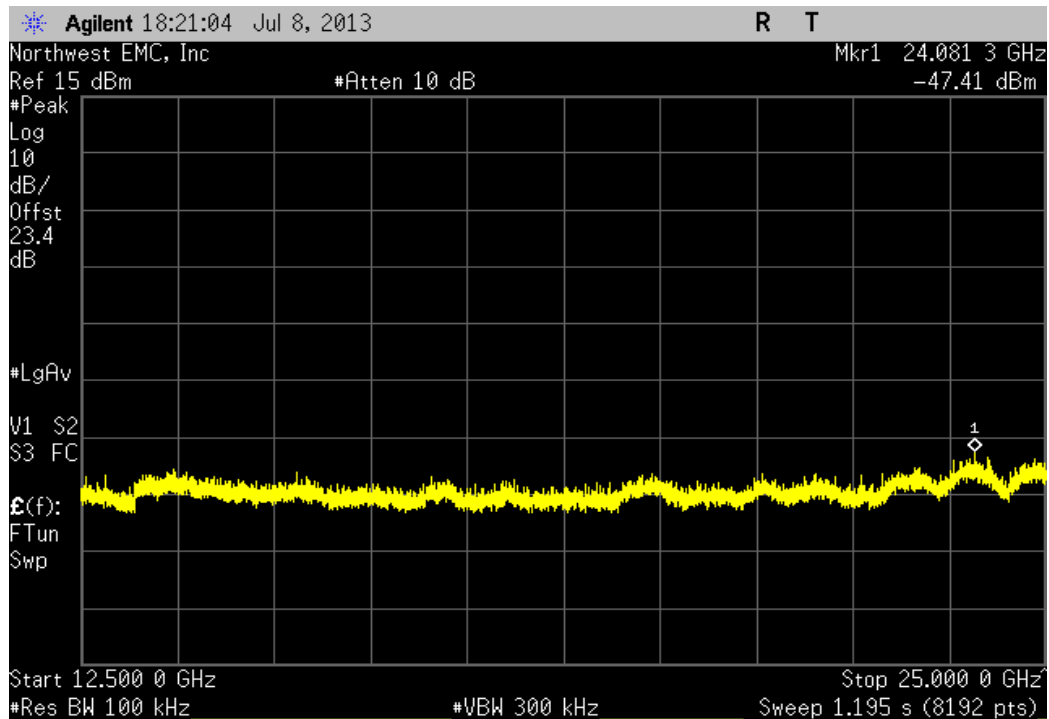
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |  |       |       |        |
|------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                    |  | Value | Limit | Result |
| Fundamental                                                                        |  | N/A   | N/A   | N/A    |



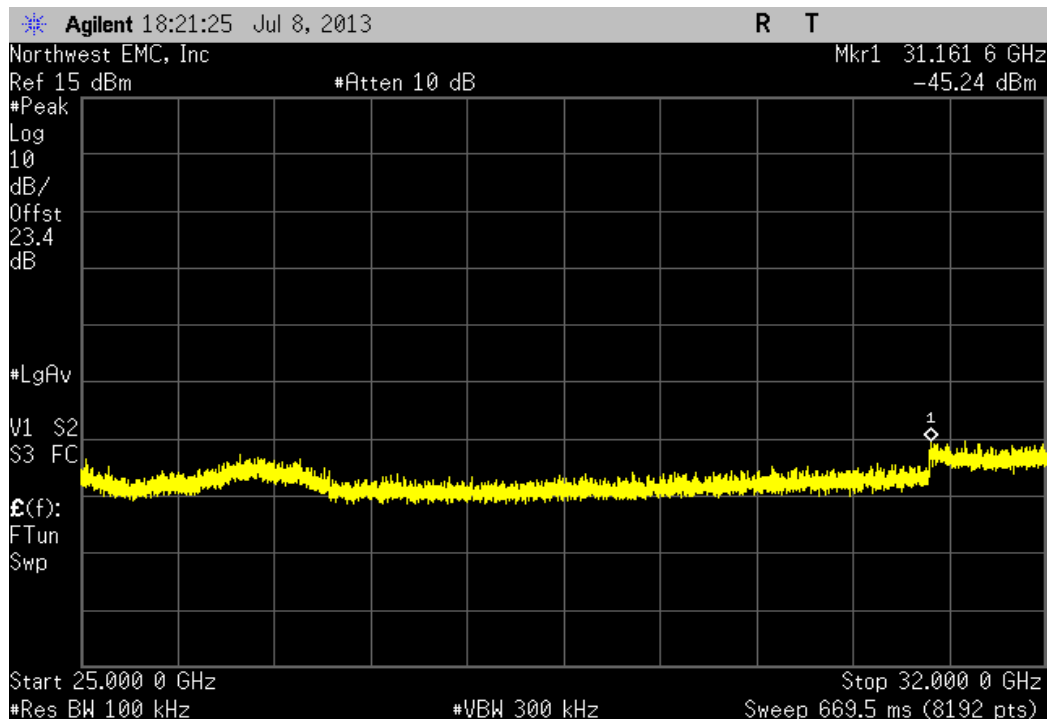
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |  |            |           |        |
|------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                    |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                  |  | -51.76 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -48.09 dBc | ≤ -20 dBc | Pass   |  |

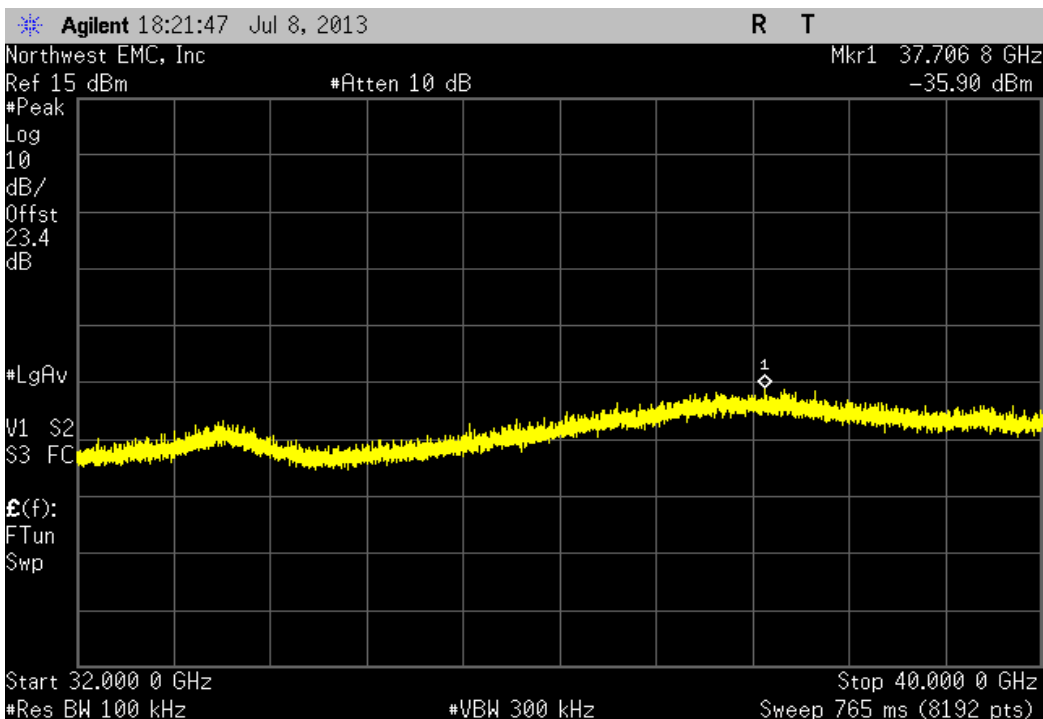


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -45.92 dBc | ≤ -20 dBc | Pass   |  |



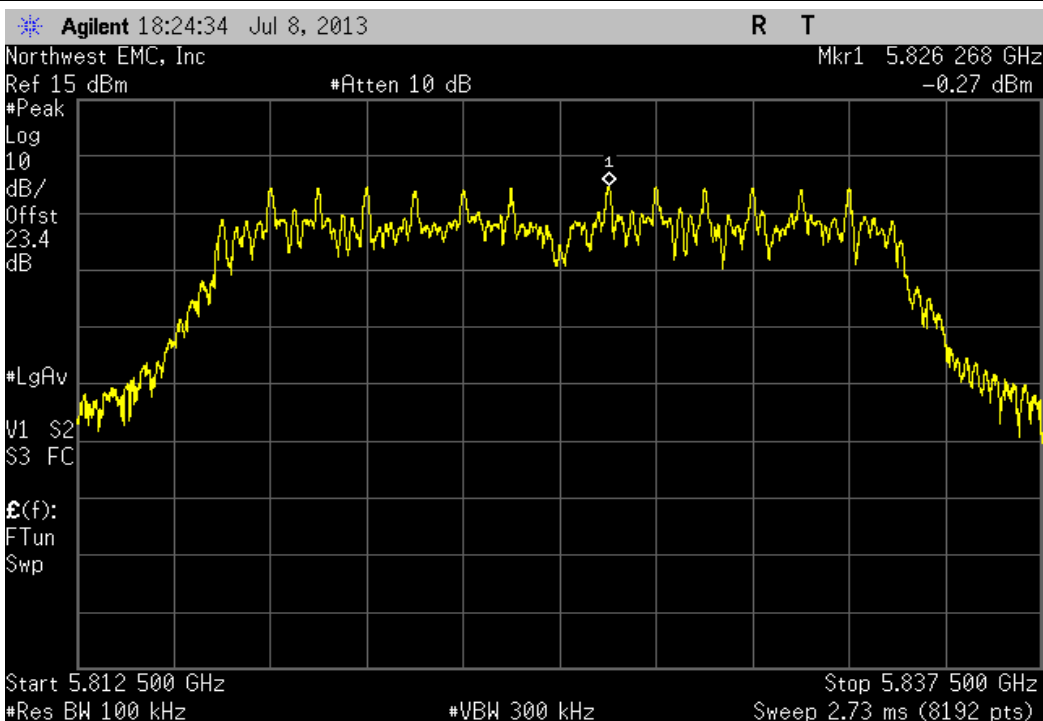
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

| Frequency Range | Value      | Limit     | Result |
|-----------------|------------|-----------|--------|
| 32 GHz - 40 GHz | -36.58 dBc | ≤ -20 dBc | Pass   |

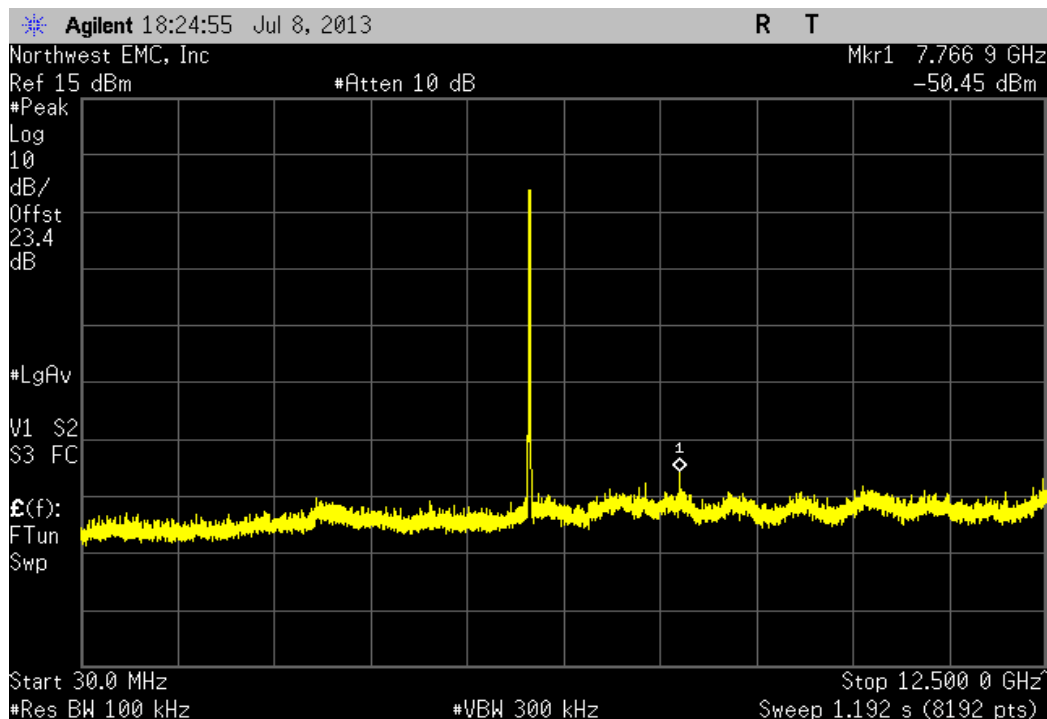


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

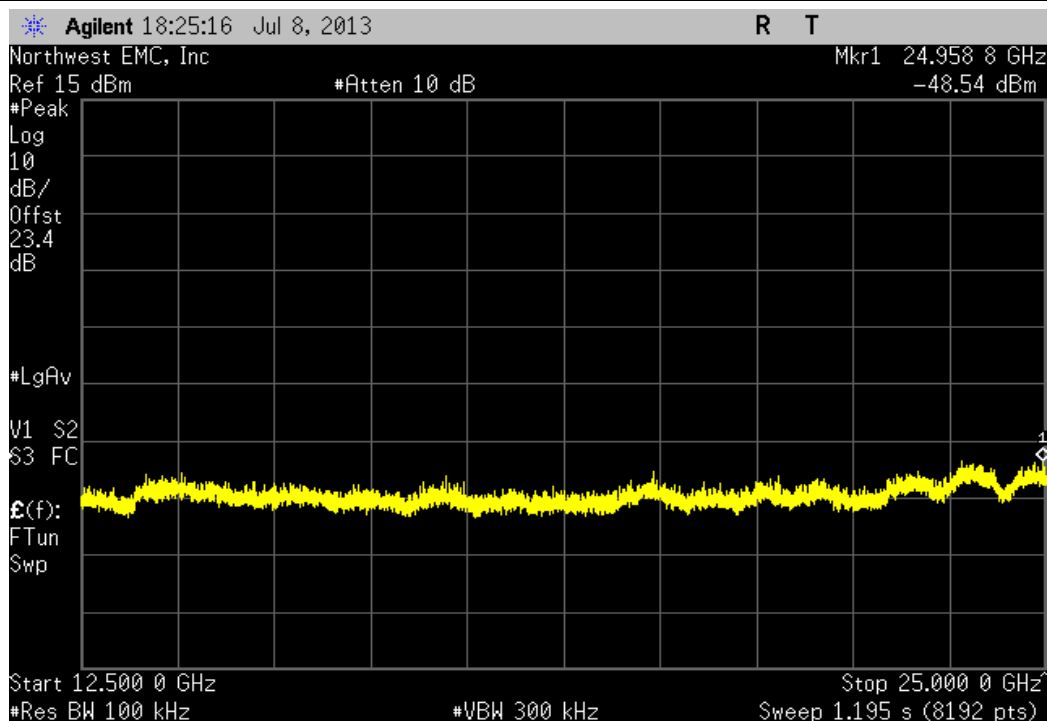
| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                   | -50.18 dBc | ≤ -20 dBc | Pass   |  |

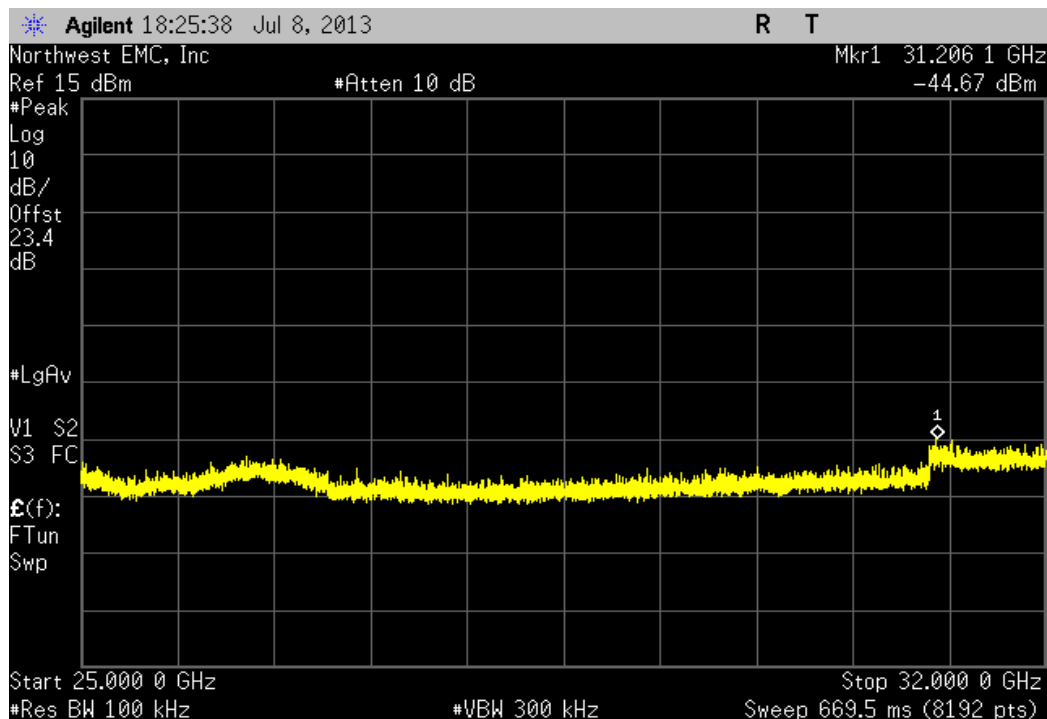


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                   | -48.27 dBc | ≤ -20 dBc | Pass   |  |

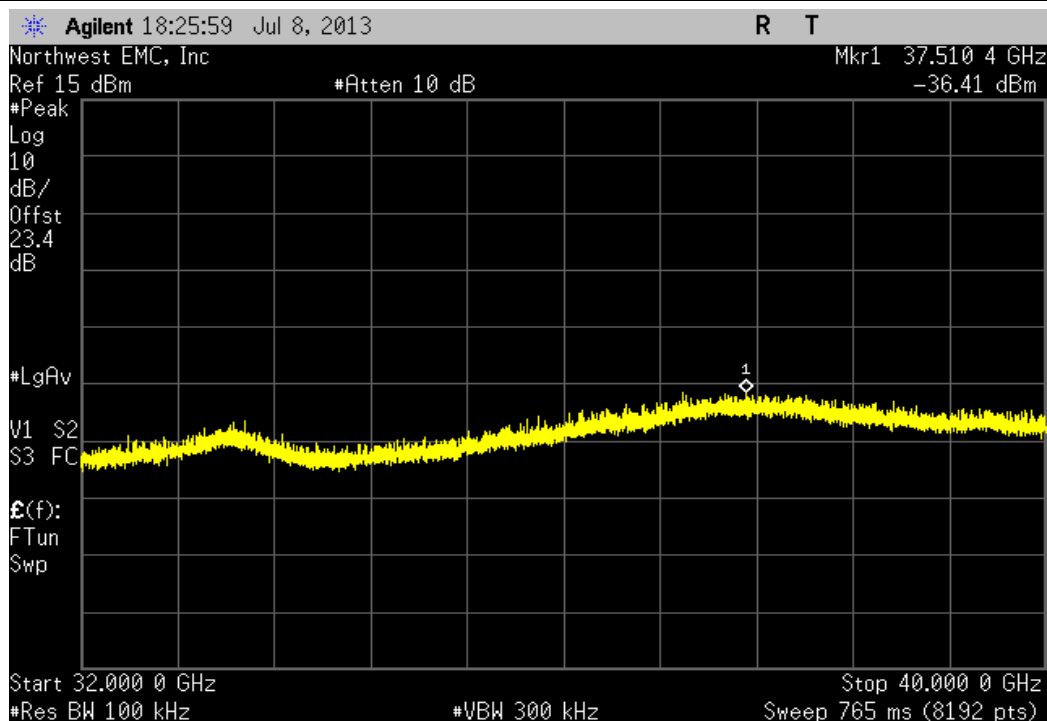




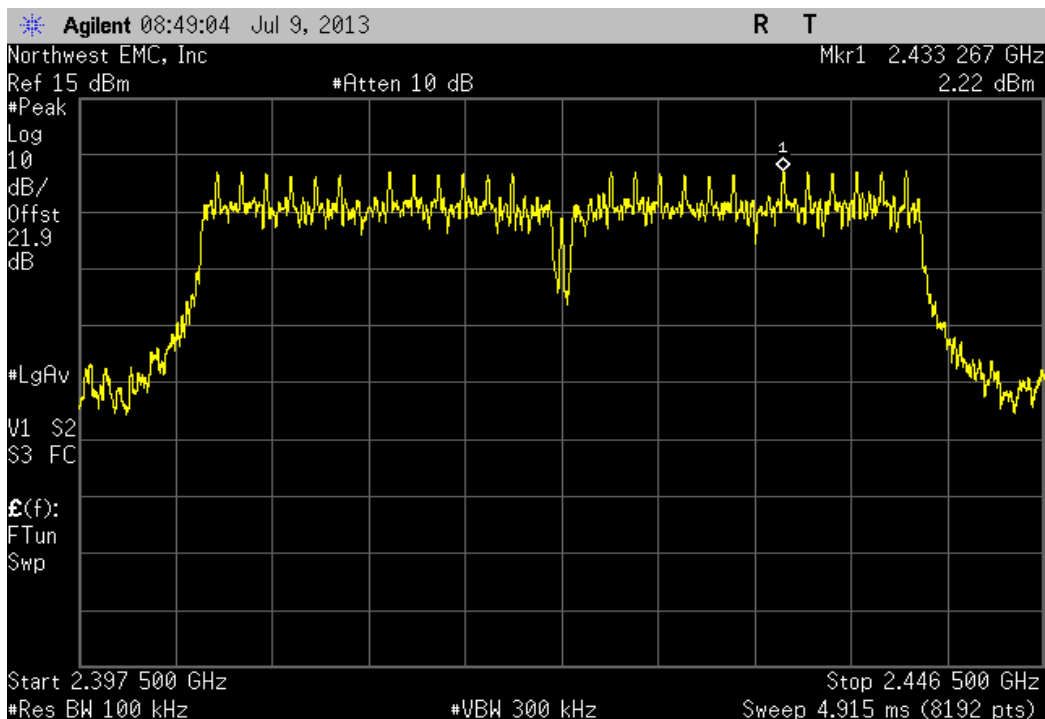
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |  |           |           |        |  |
|-------------------------------------------------------------------------------------|--|-----------|-----------|--------|--|
| Frequency Range                                                                     |  | Value     | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                     |  | -44.4 dBc | ≤ -20 dBc | Pass   |  |



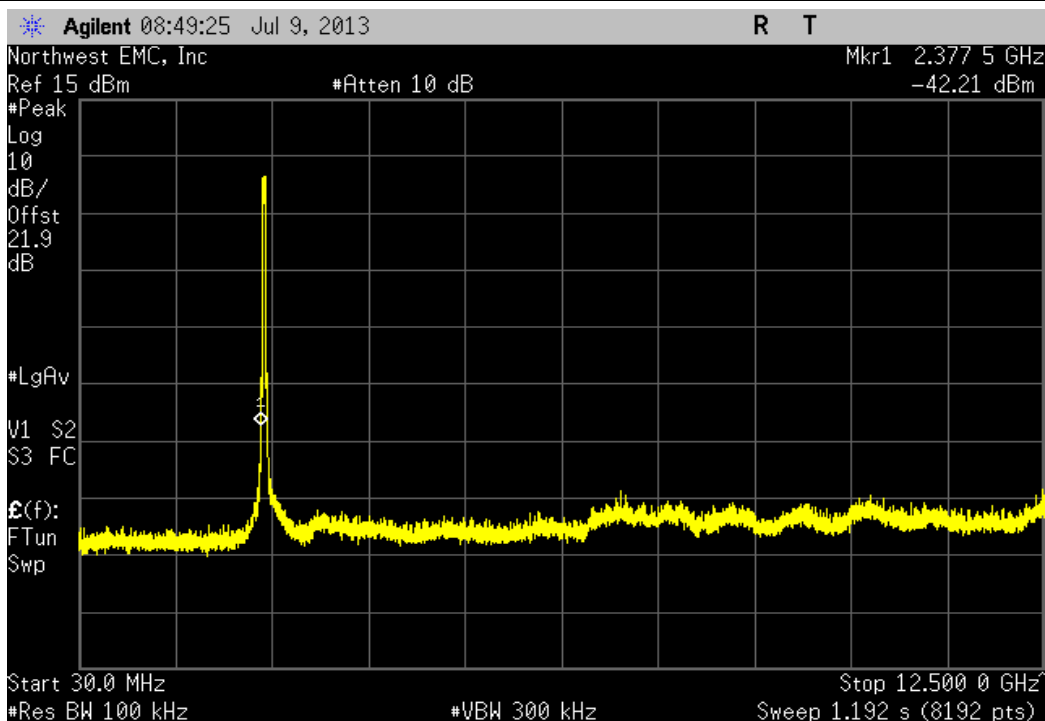
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |  |            |           |        |  |
|-------------------------------------------------------------------------------------|--|------------|-----------|--------|--|
| Frequency Range                                                                     |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                     |  | -36.14 dBc | ≤ -20 dBc | Pass   |  |



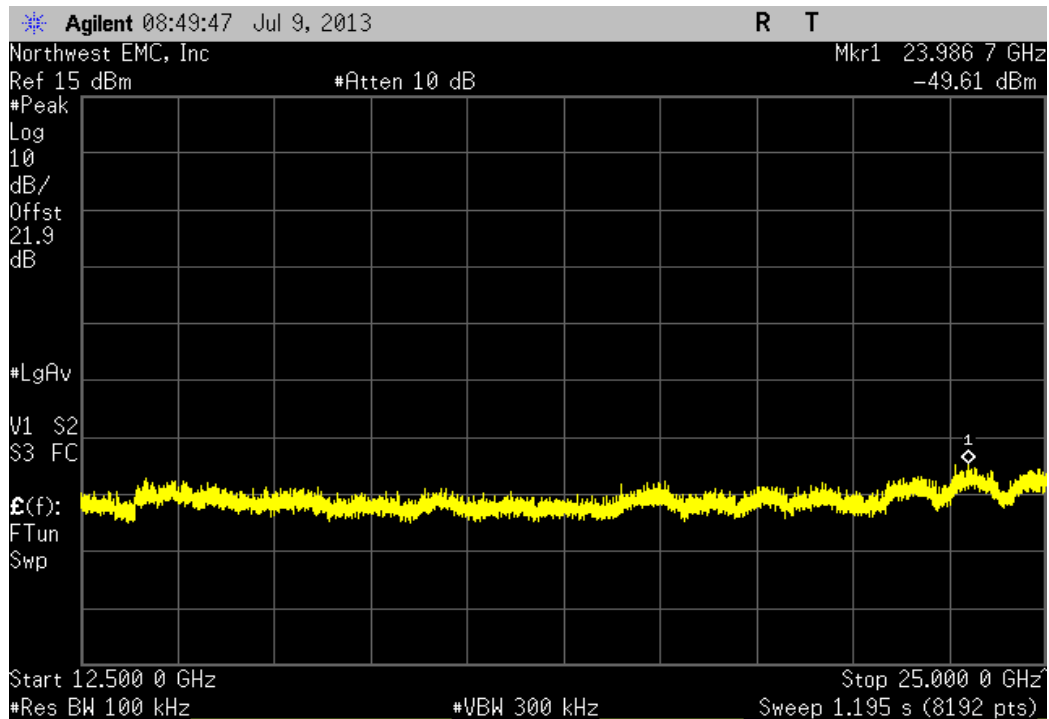
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz |  |  |  |       |       |        |
|-------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                               |  |  |  | Value | Limit | Result |
| Fundamental                                                                   |  |  |  | N/A   | N/A   | N/A    |



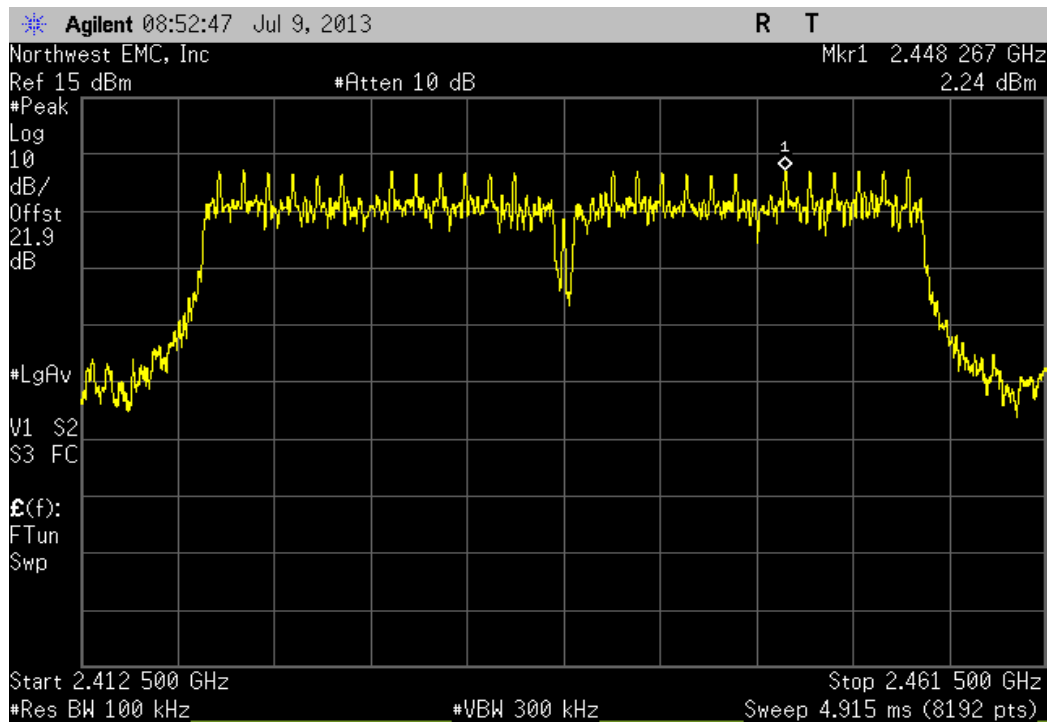
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz |  |  |  |            |           |        |
|-------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                               |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  |  |  | -44.43 dBc | ≤ -20 dBc | Pass   |



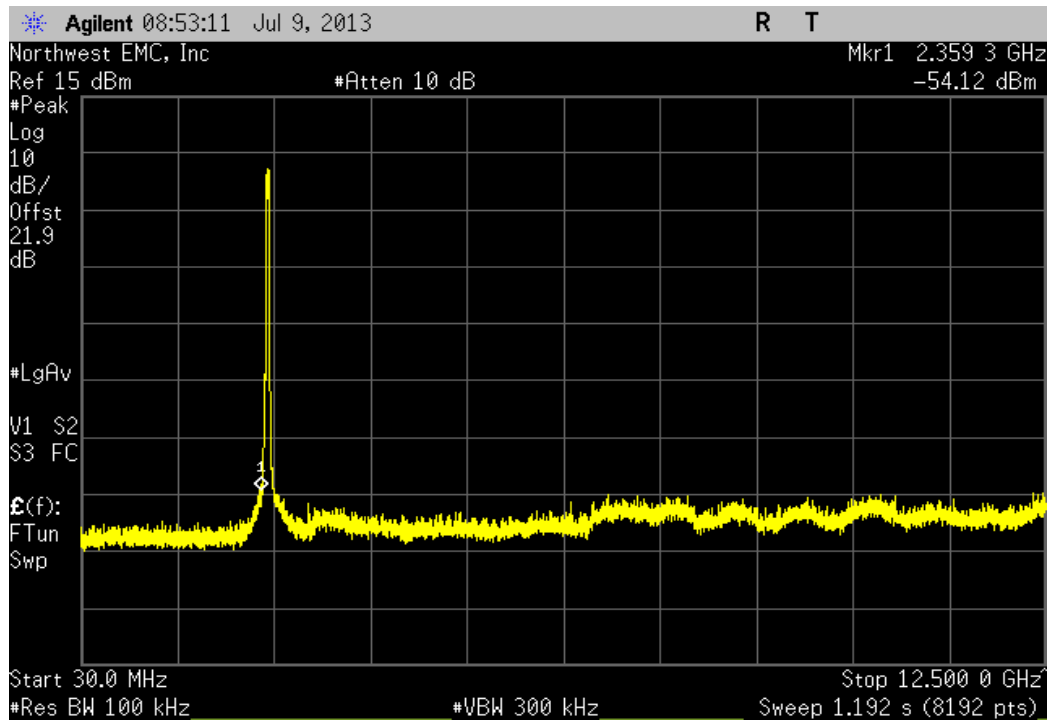
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -51.83 dBc | ≤ -20 dBc | Pass   |



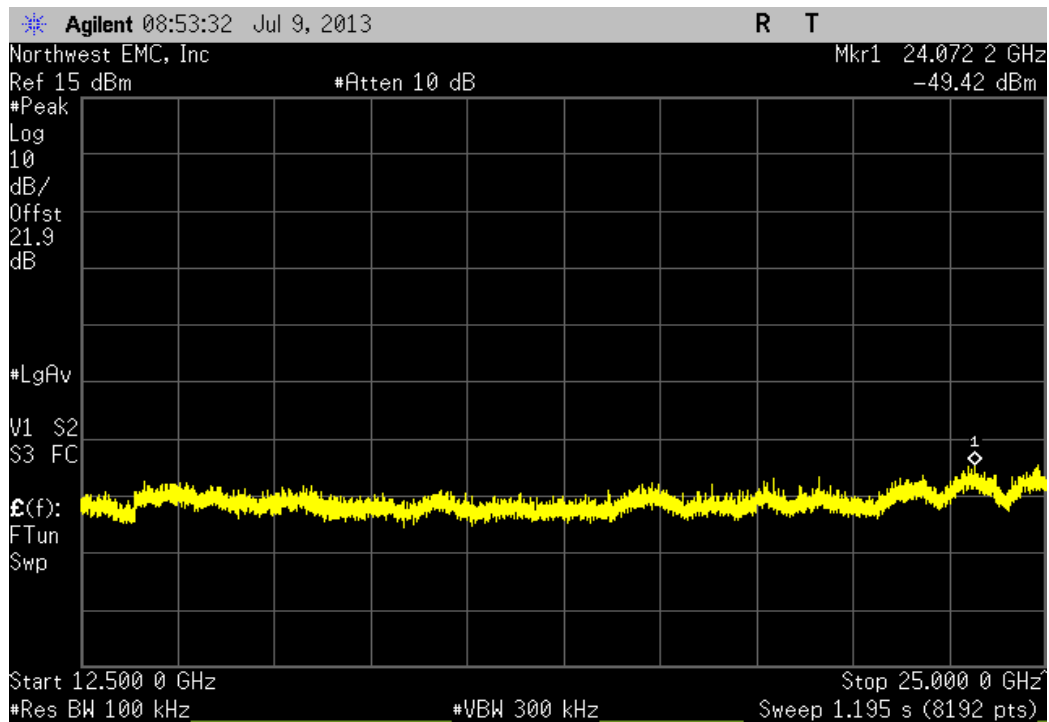
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



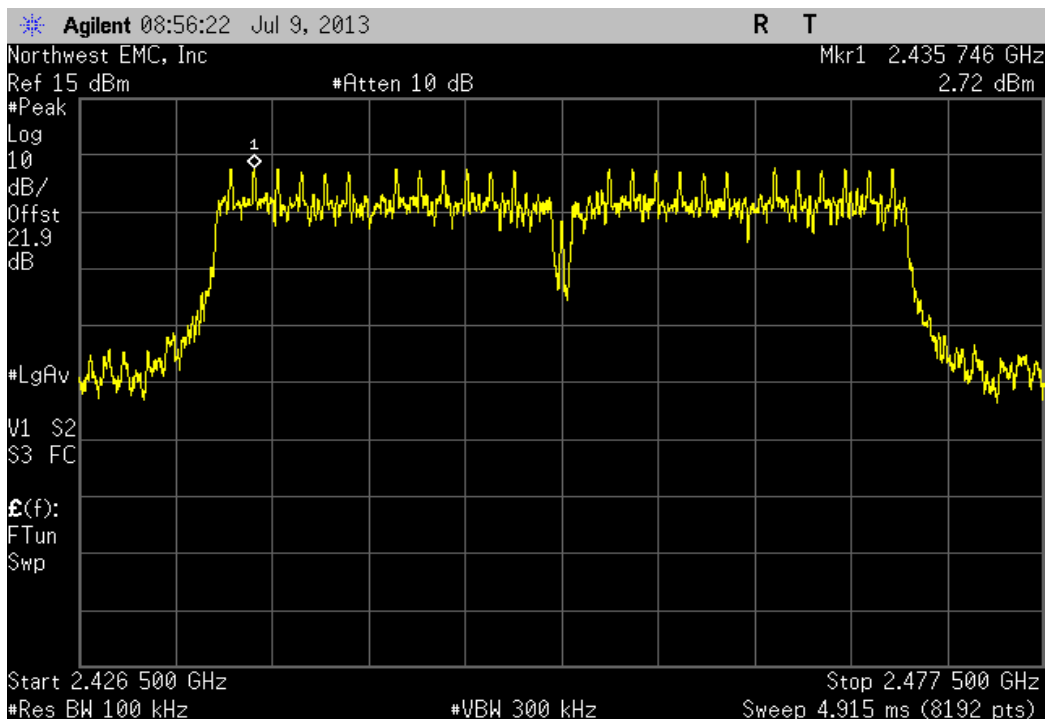
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -56.36 dBc | ≤ -20 dBc | Pass   |  |



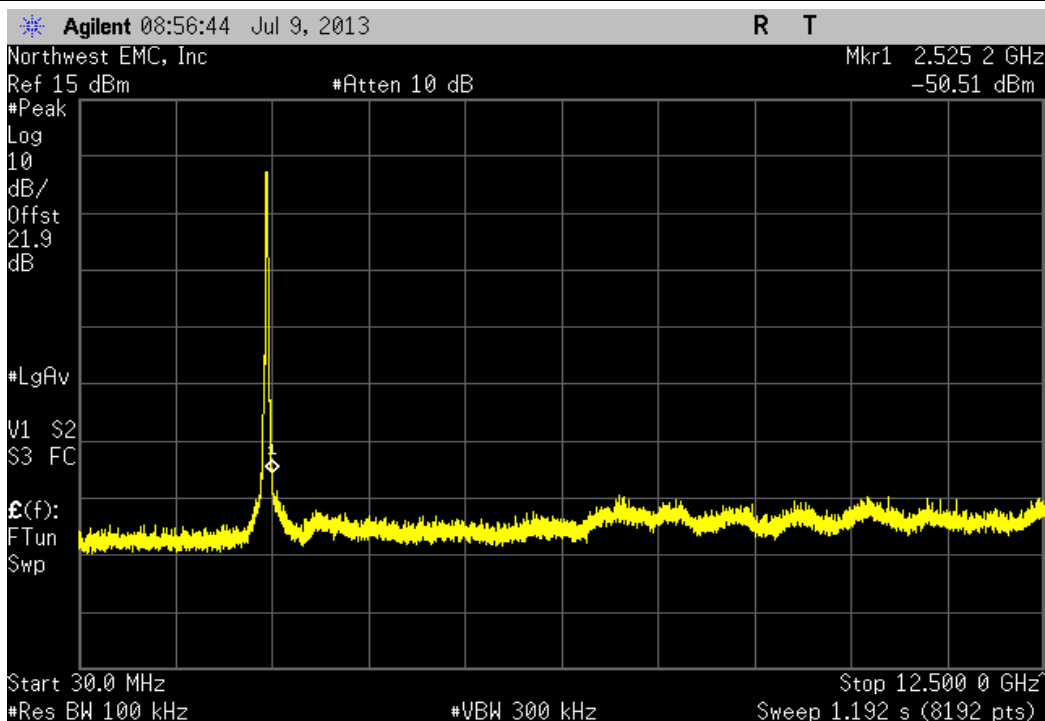
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -51.66 dBc | ≤ -20 dBc | Pass   |  |



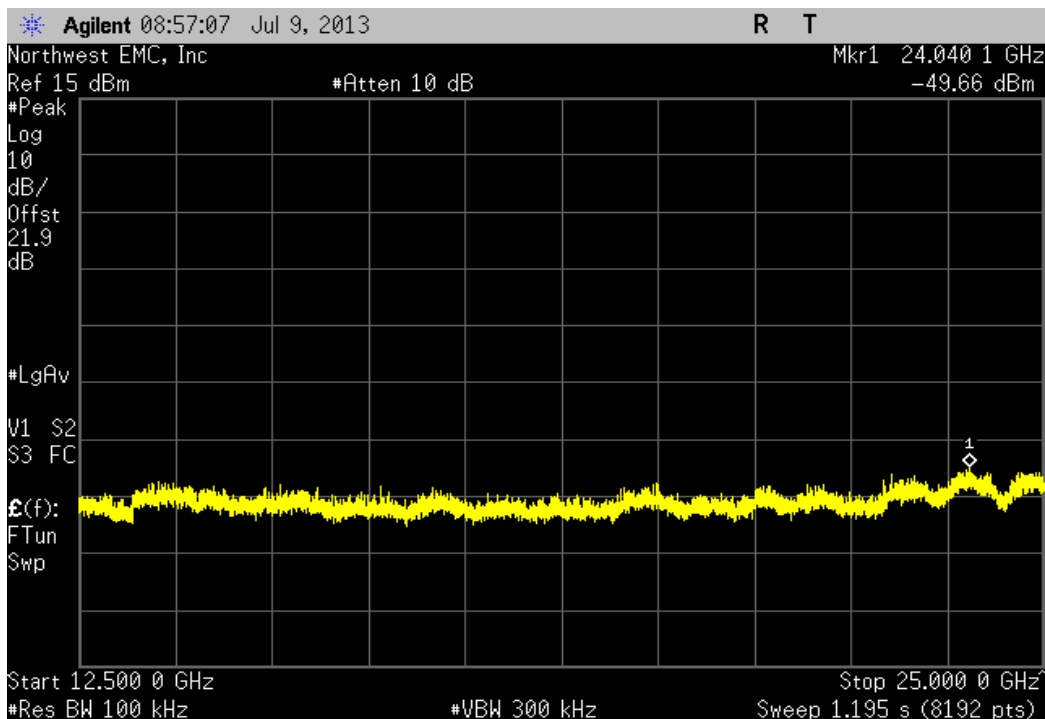
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |



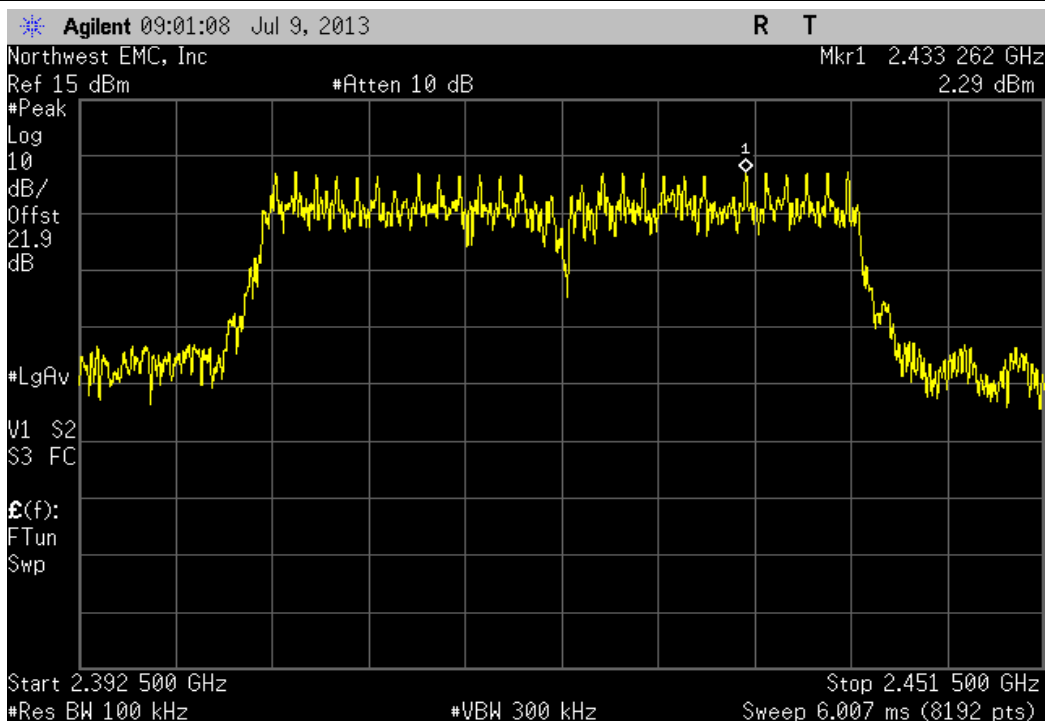
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  | -53.22 dBc | ≤ -20 dBc | Pass   |



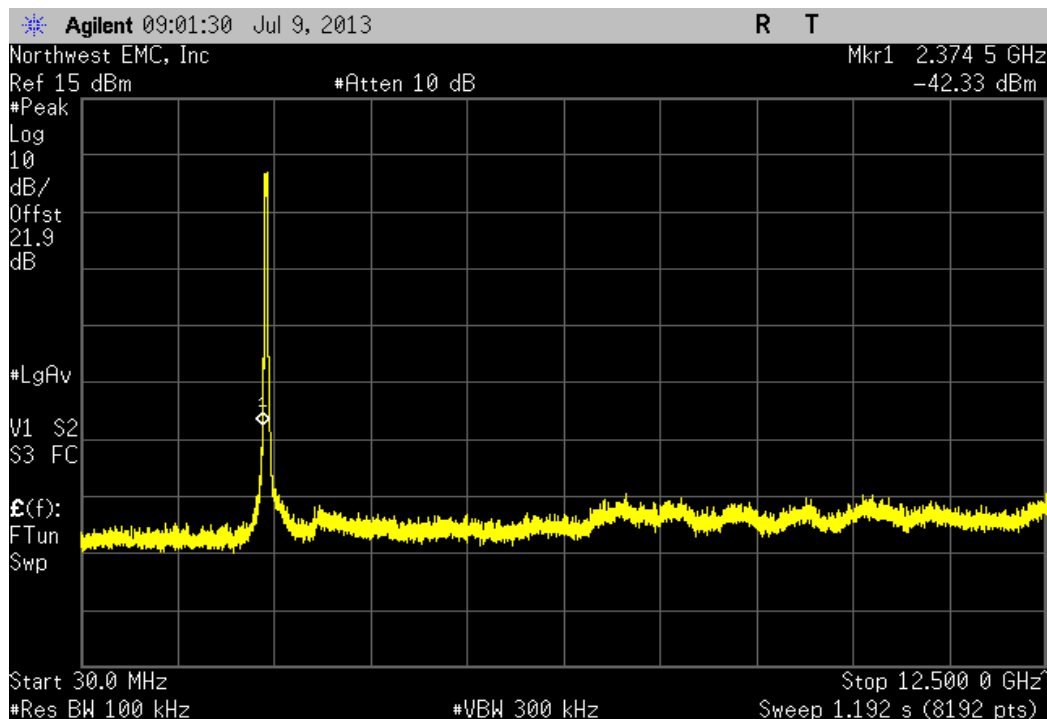
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                               |  | -52.38 dBc | ≤ -20 dBc | Pass   |



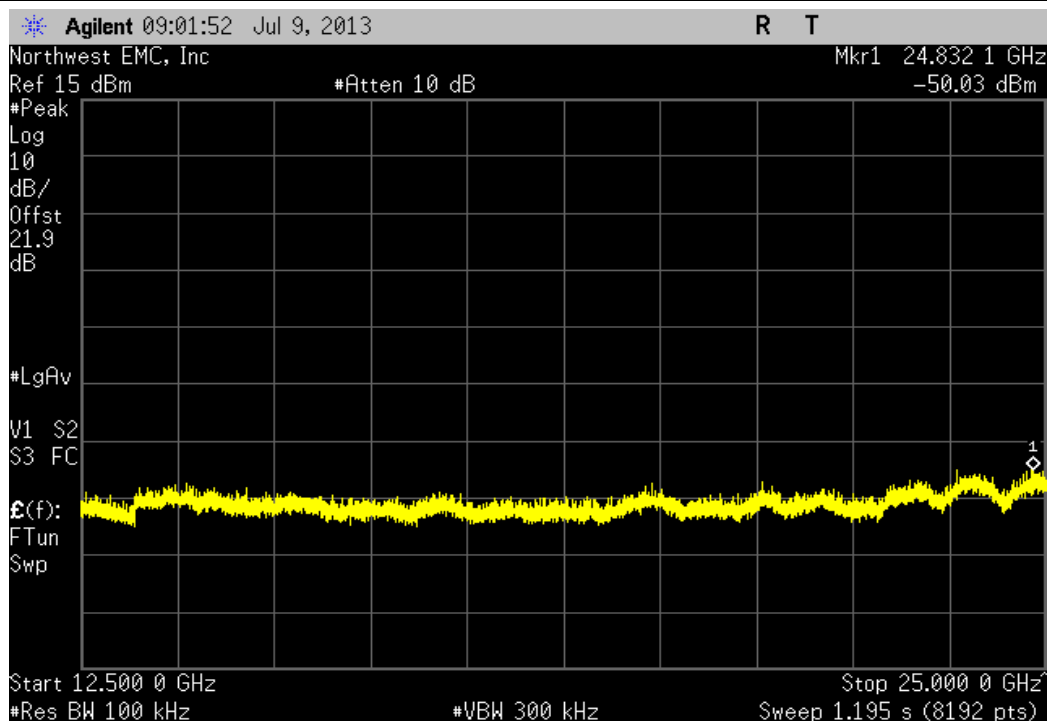
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



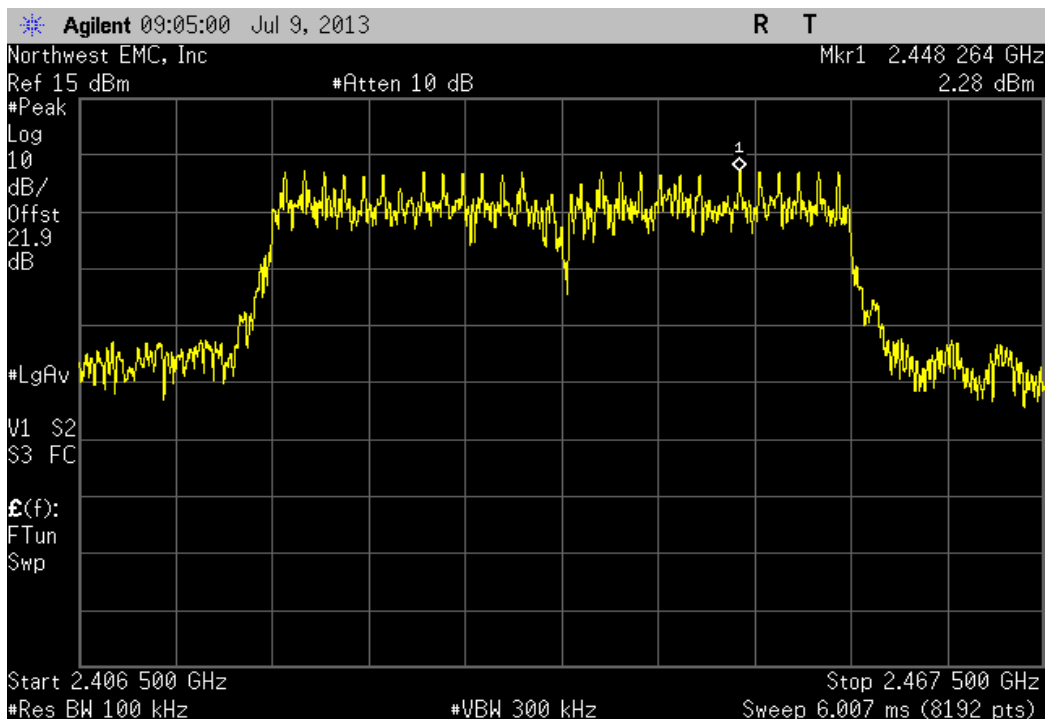
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -44.62 dBc | ≤ -20 dBc | Pass   |  |



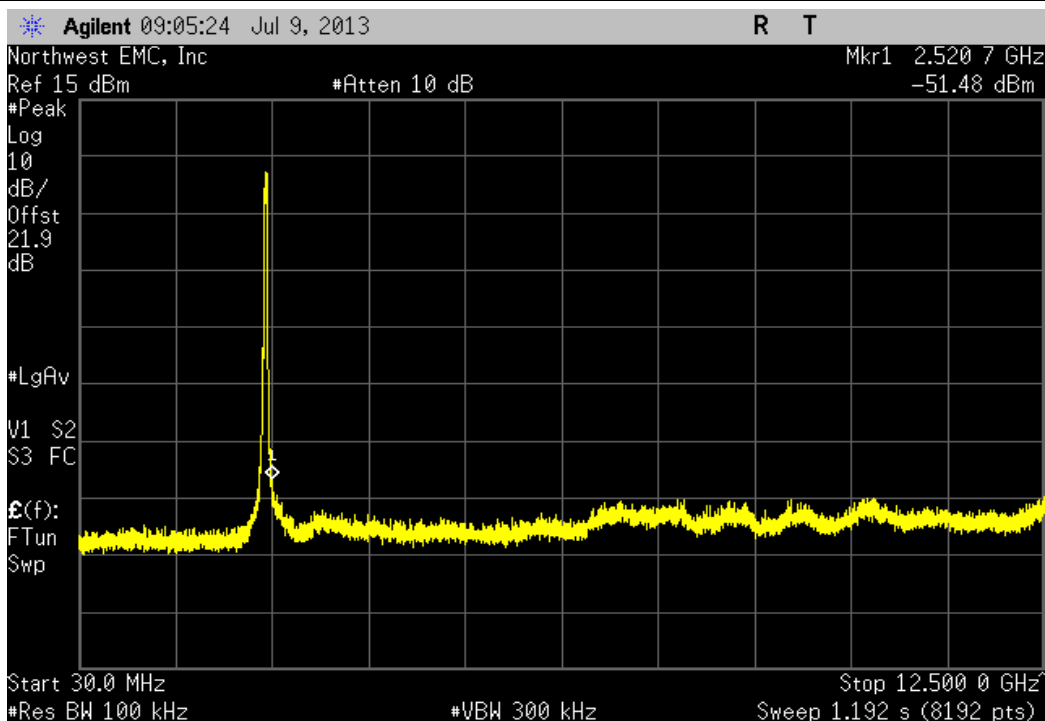
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -52.32 dBc | ≤ -20 dBc | Pass   |  |



| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |

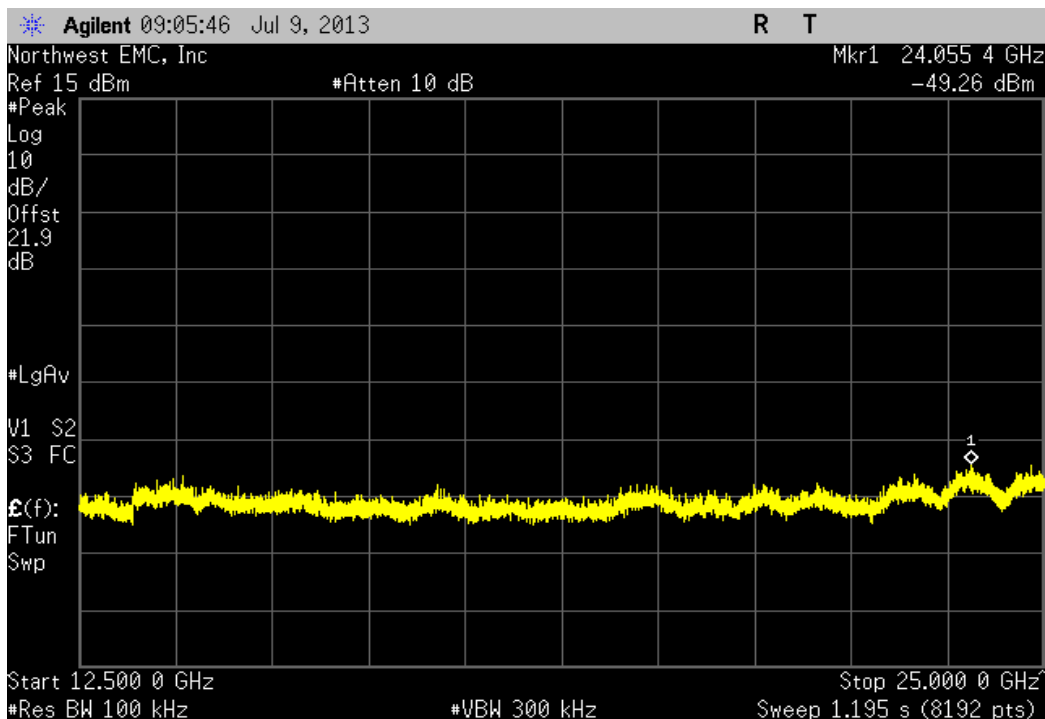


| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -53.76 dBc | ≤ -20 dBc | Pass   |

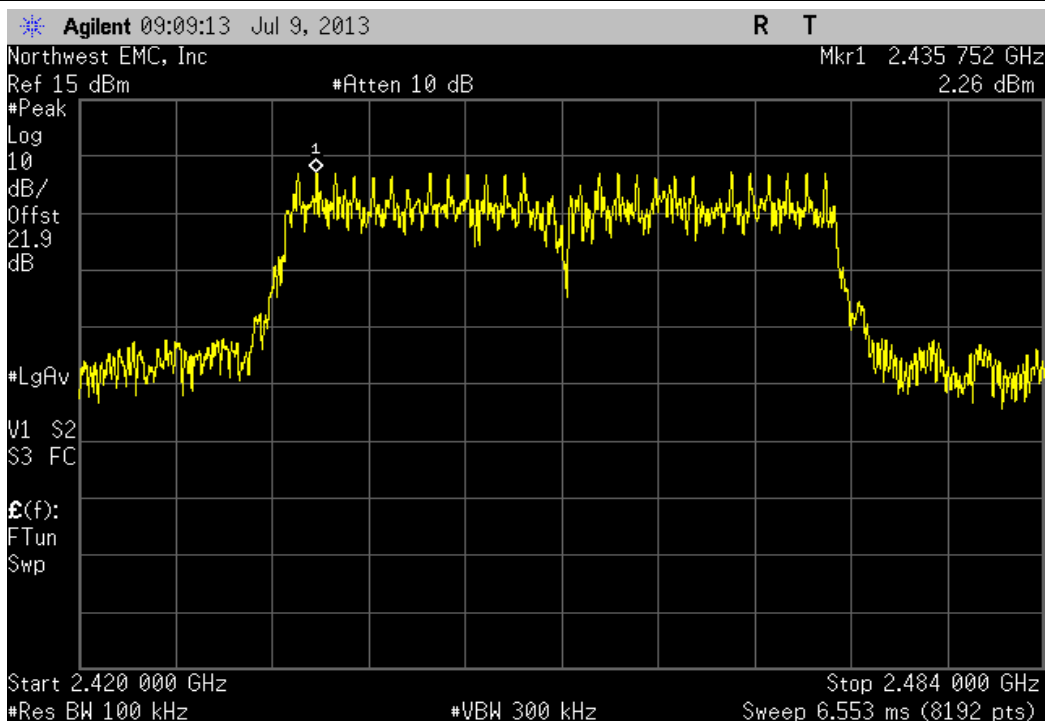




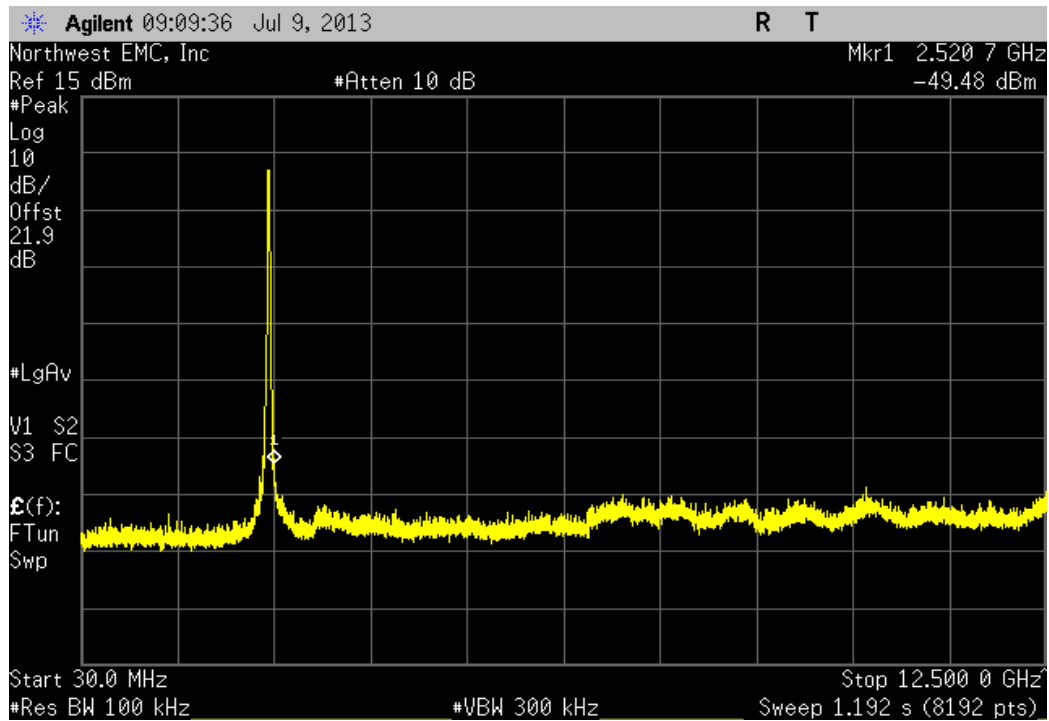
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -51.54 dBc | ≤ -20 dBc | Pass   |



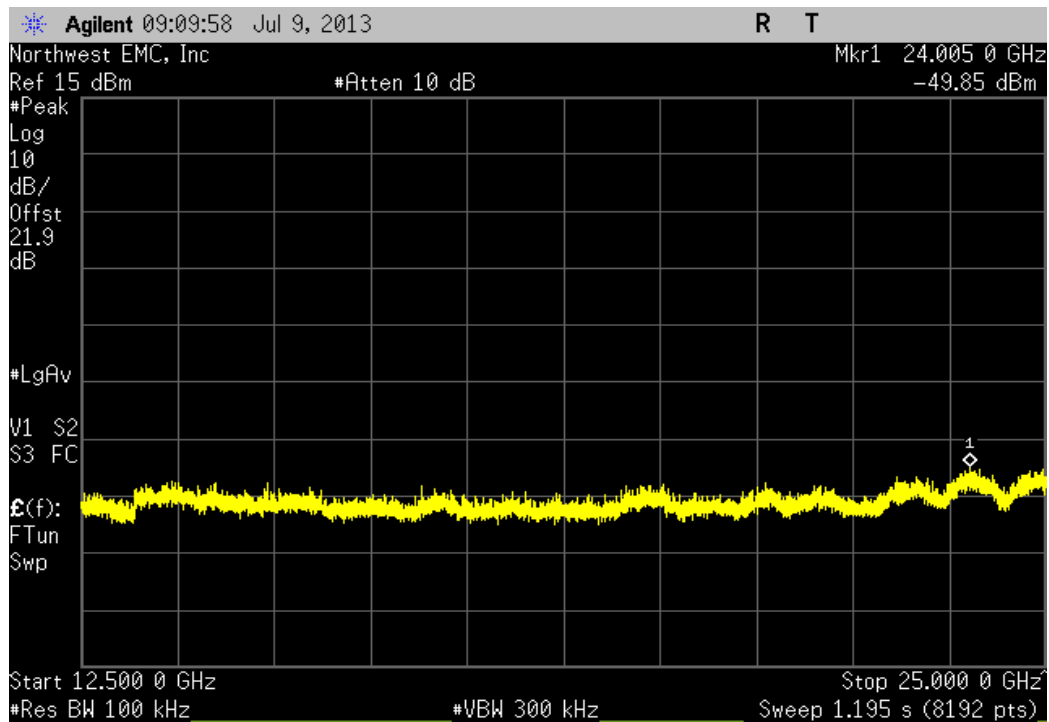
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |



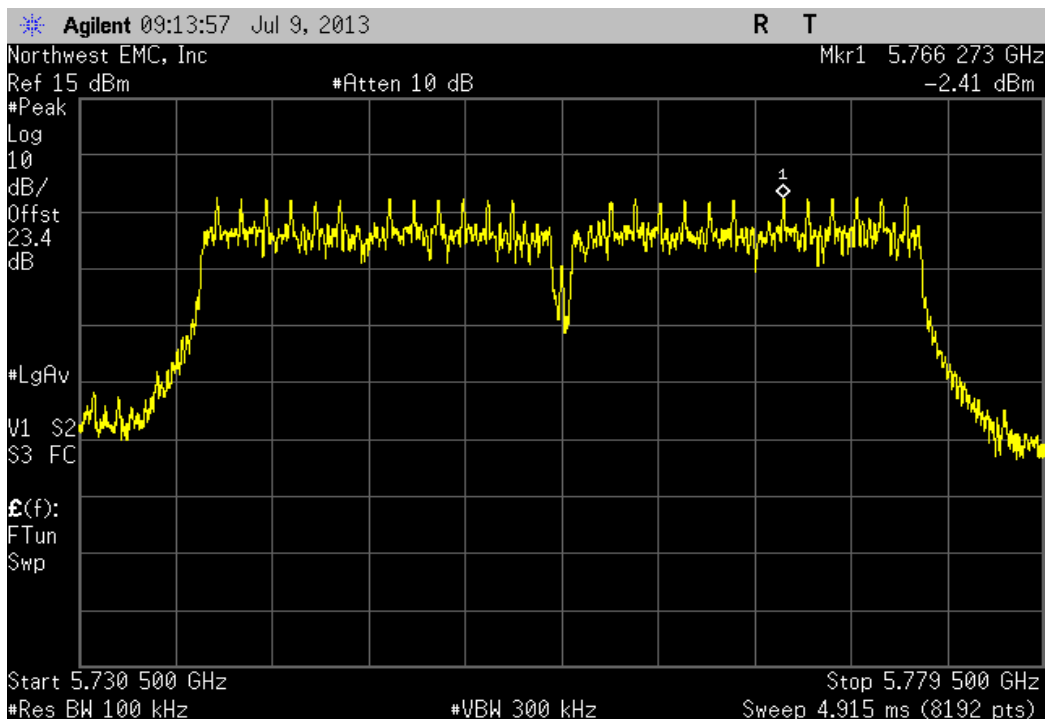
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                               | -51.74 dBc | ≤ -20 dBc | Pass   |  |



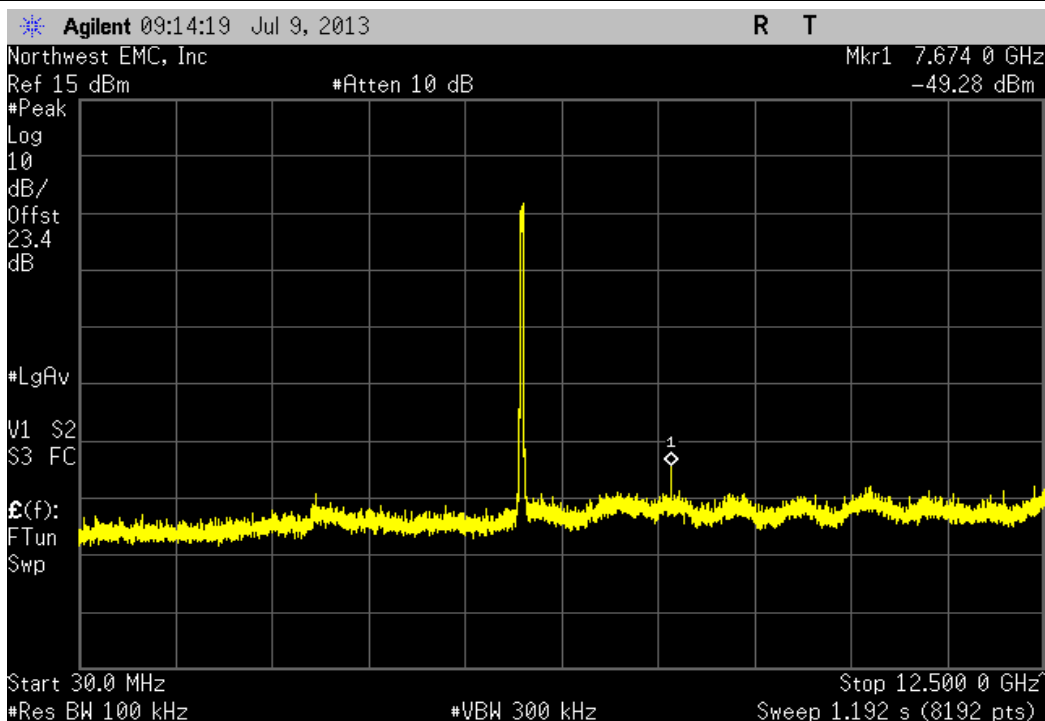
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz |           |           |        |  |
|---------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                 | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -52.1 dBc | ≤ -20 dBc | Pass   |  |



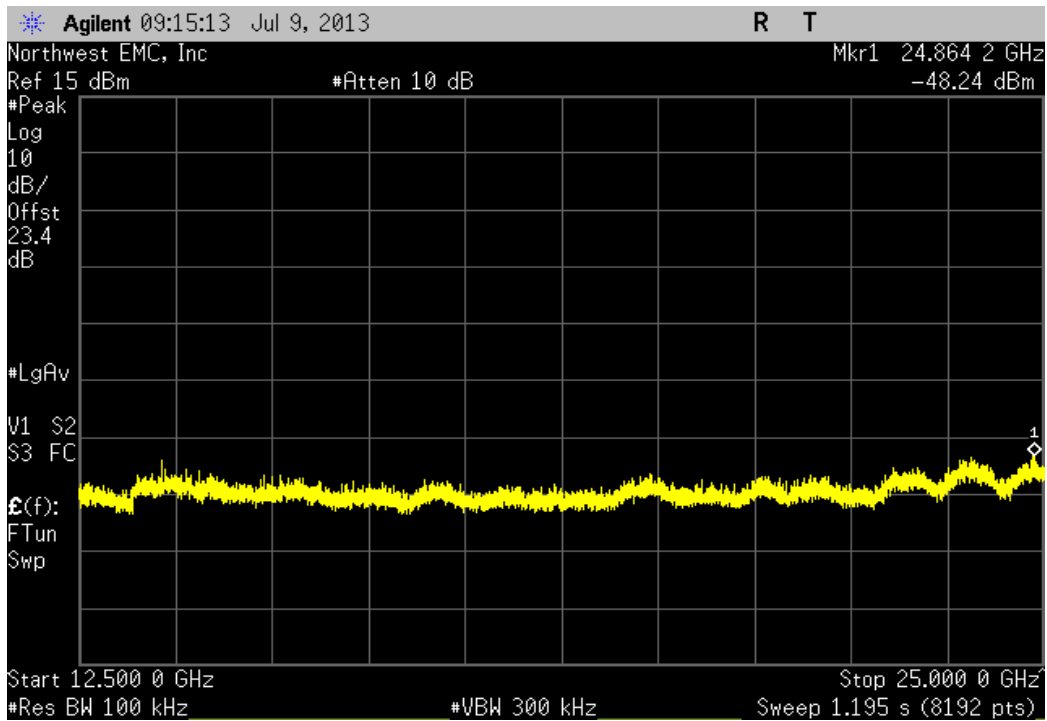
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |  |       |       |        |
|----------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                        |  | Value | Limit | Result |
| Fundamental                                                                            |  | N/A   | N/A   | N/A    |



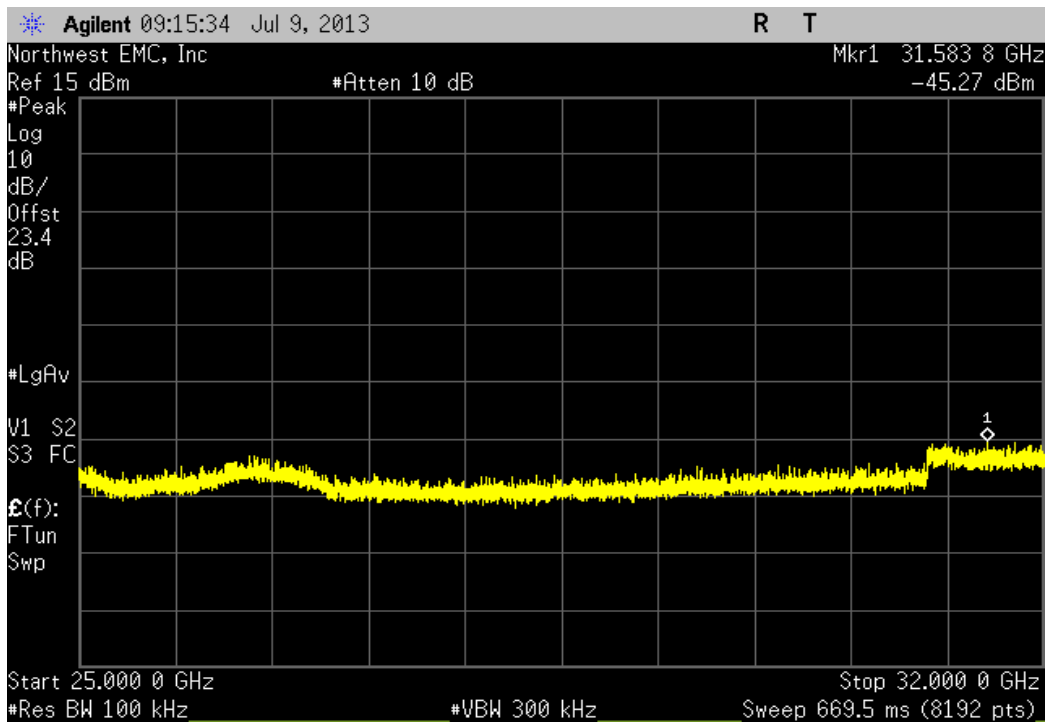
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                      |  | -46.88 dBc | ≤ -20 dBc | Pass   |



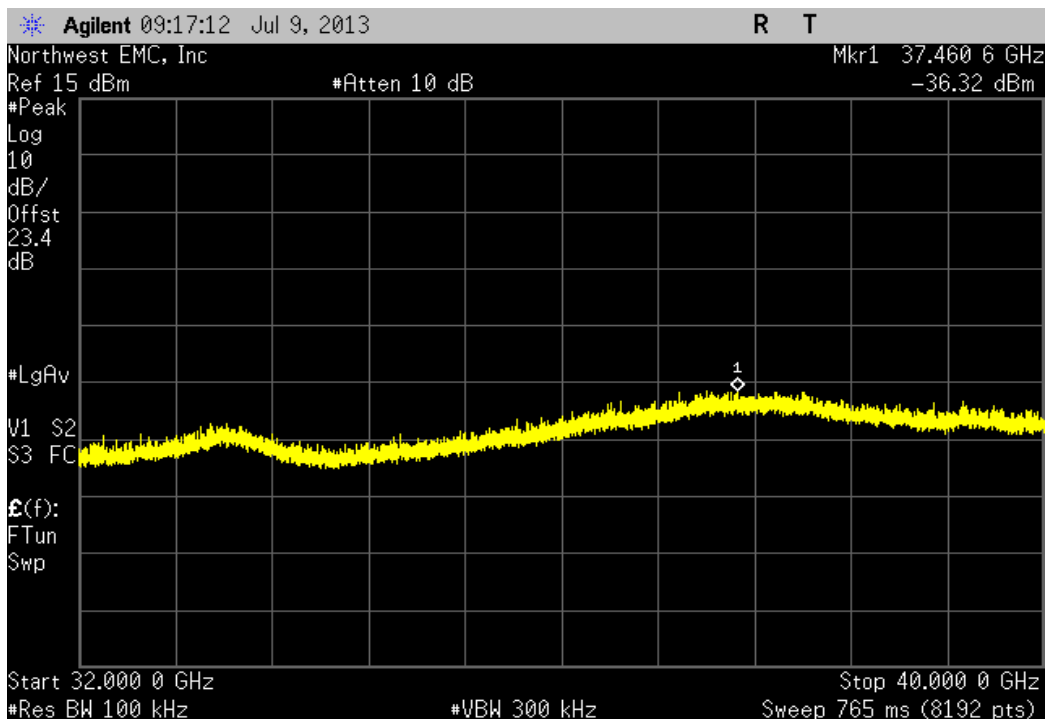
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -45.82 dBc | ≤ -20 dBc | Pass   |  |



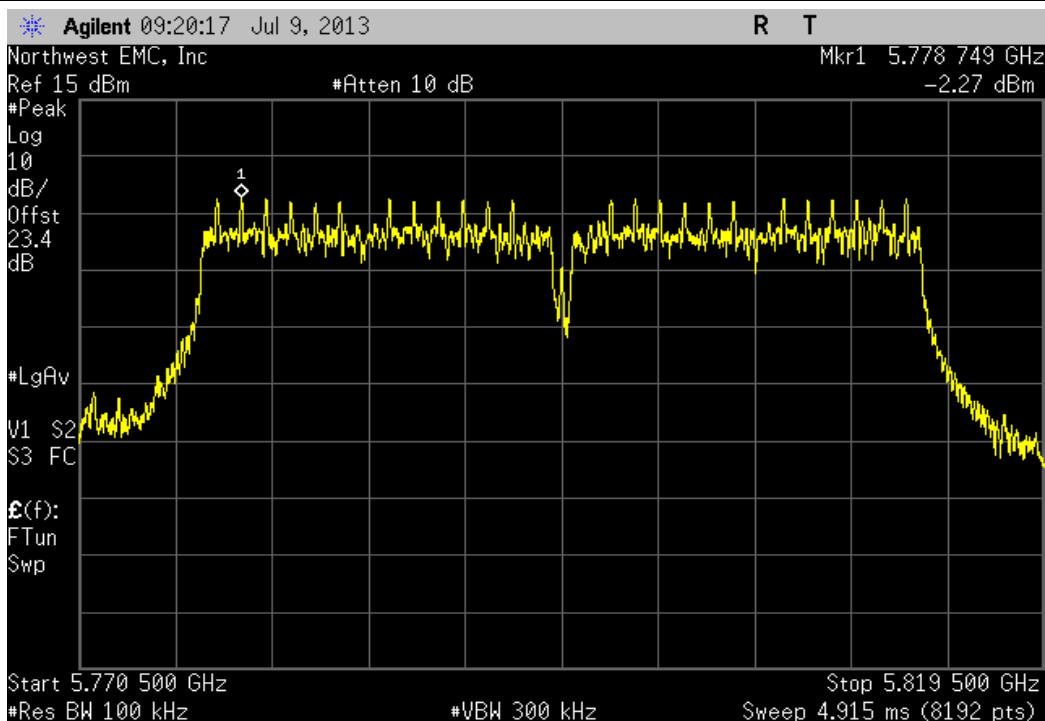
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                        | -42.86 dBc | ≤ -20 dBc | Pass   |  |



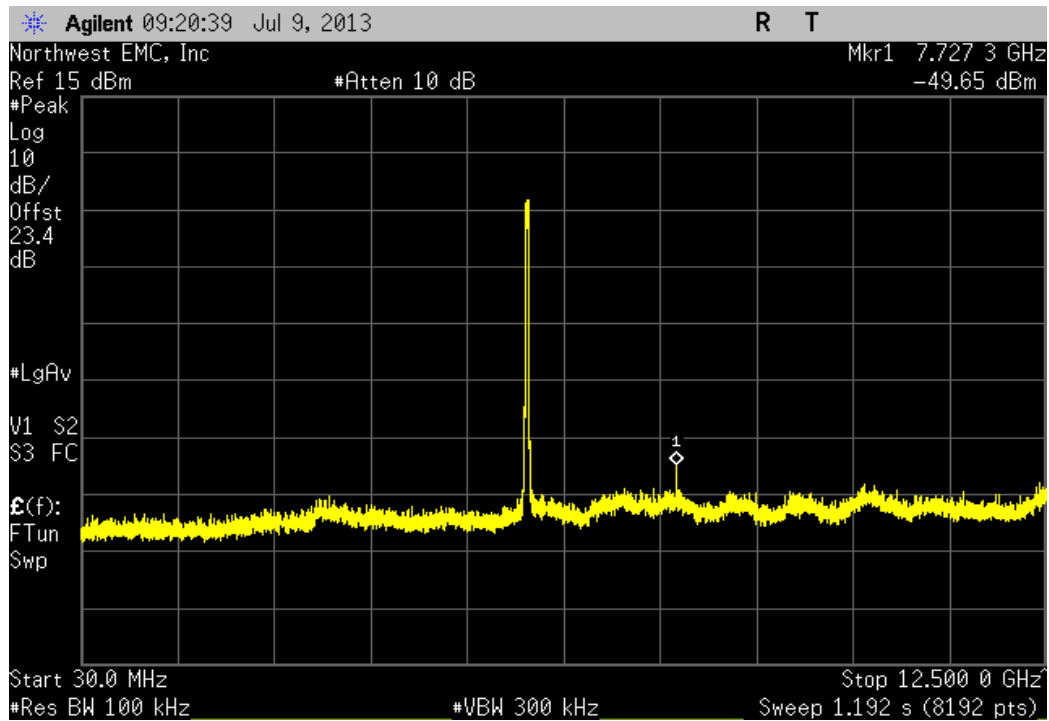
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |            |           |        |
|----------------------------------------------------------------------------------------|------------|-----------|--------|
| Frequency Range                                                                        | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                        | -33.91 dBc | ≤ -20 dBc | Pass   |



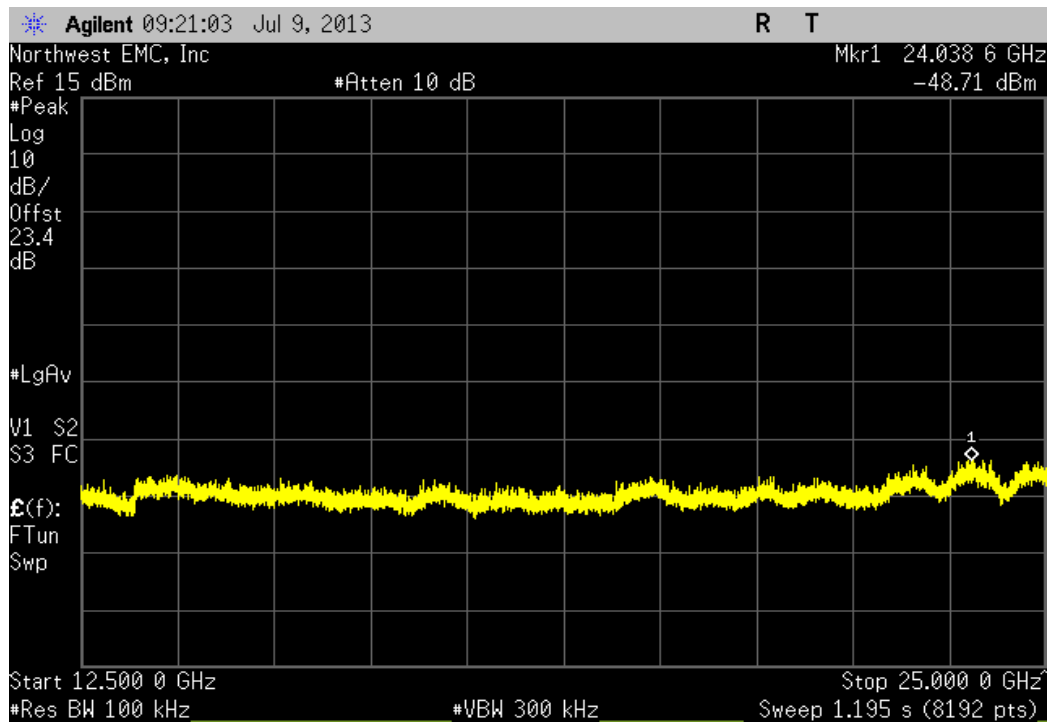
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |       |       |        |
|-----------------------------------------------------------------------------------------|-------|-------|--------|
| Frequency Range                                                                         | Value | Limit | Result |
| Fundamental                                                                             | N/A   | N/A   | N/A    |



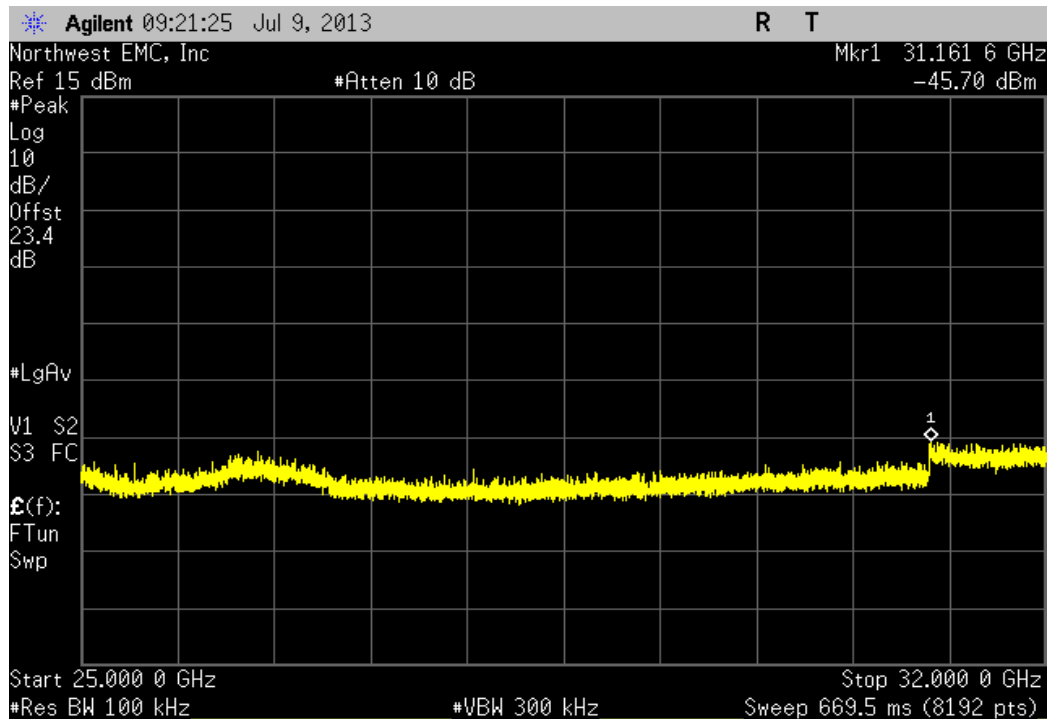
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -47.38 dBc | ≤ -20 dBc | Pass   |  |



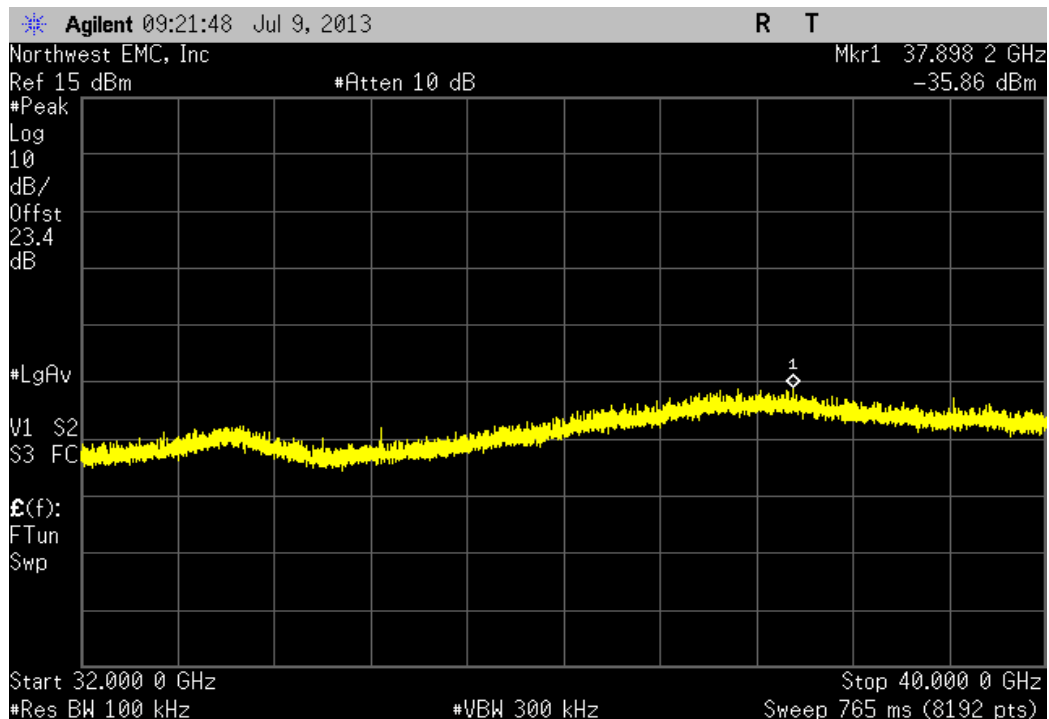
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -46.44 dBc | ≤ -20 dBc | Pass   |  |



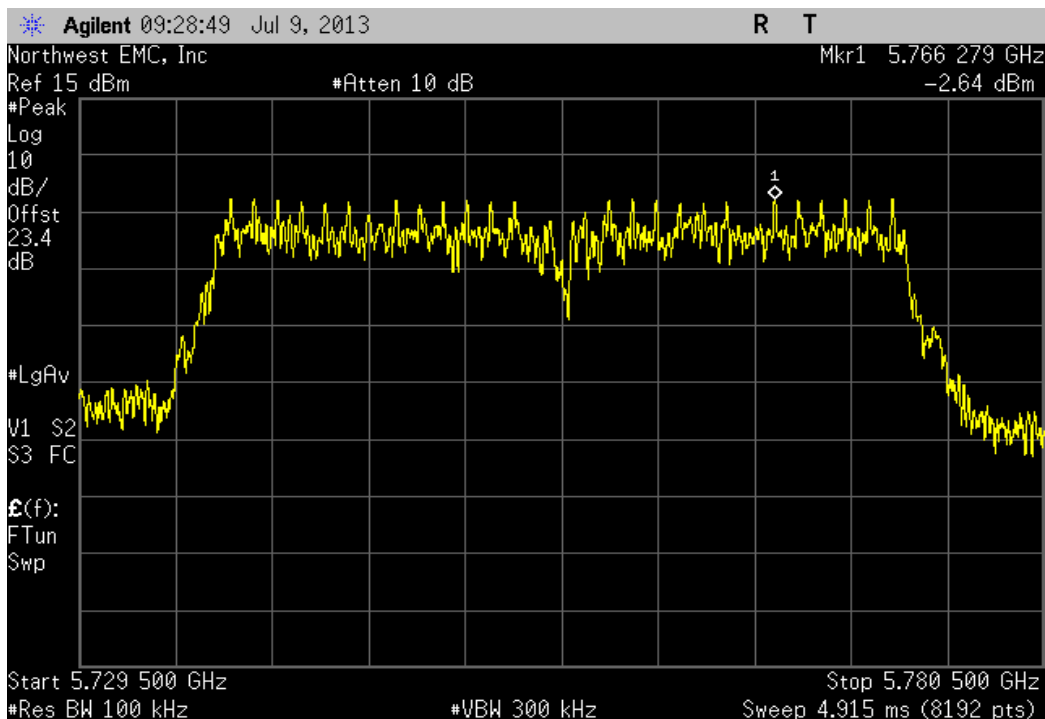
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |  |            |           |        |
|-----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                         |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                         |  | -43.43 dBc | ≤ -20 dBc | Pass   |



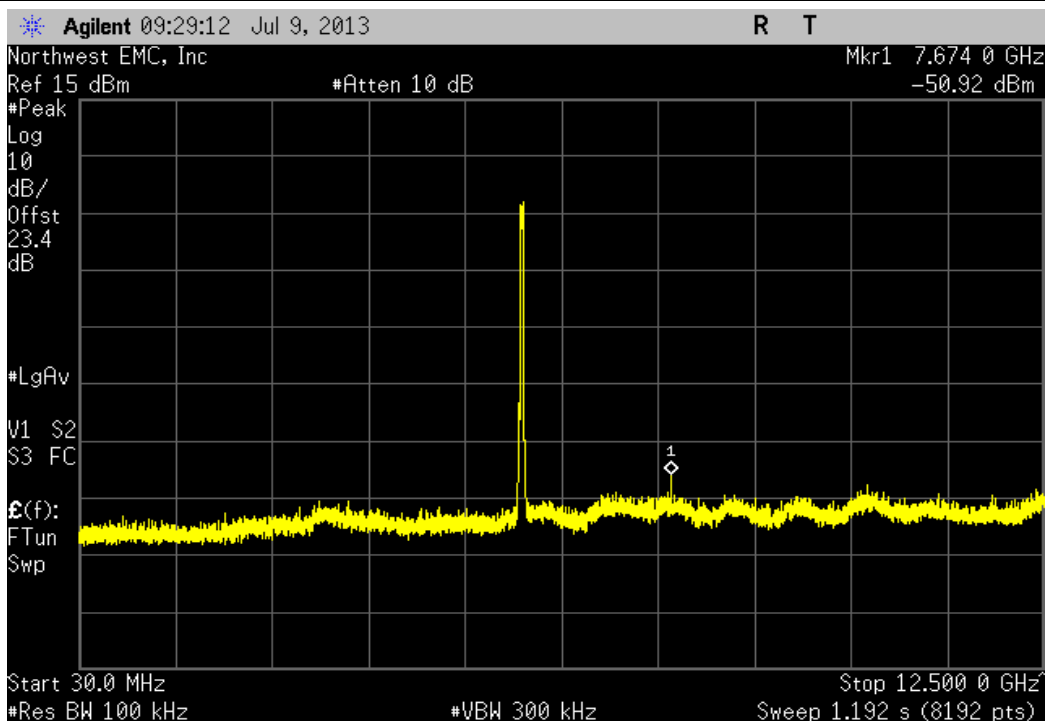
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |  |            |           |        |
|-----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                         |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                         |  | -33.59 dBc | ≤ -20 dBc | Pass   |



| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |       |       |        |
|----------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                        |  | Value | Limit | Result |
| Fundamental                                                                            |  | N/A   | N/A   | N/A    |

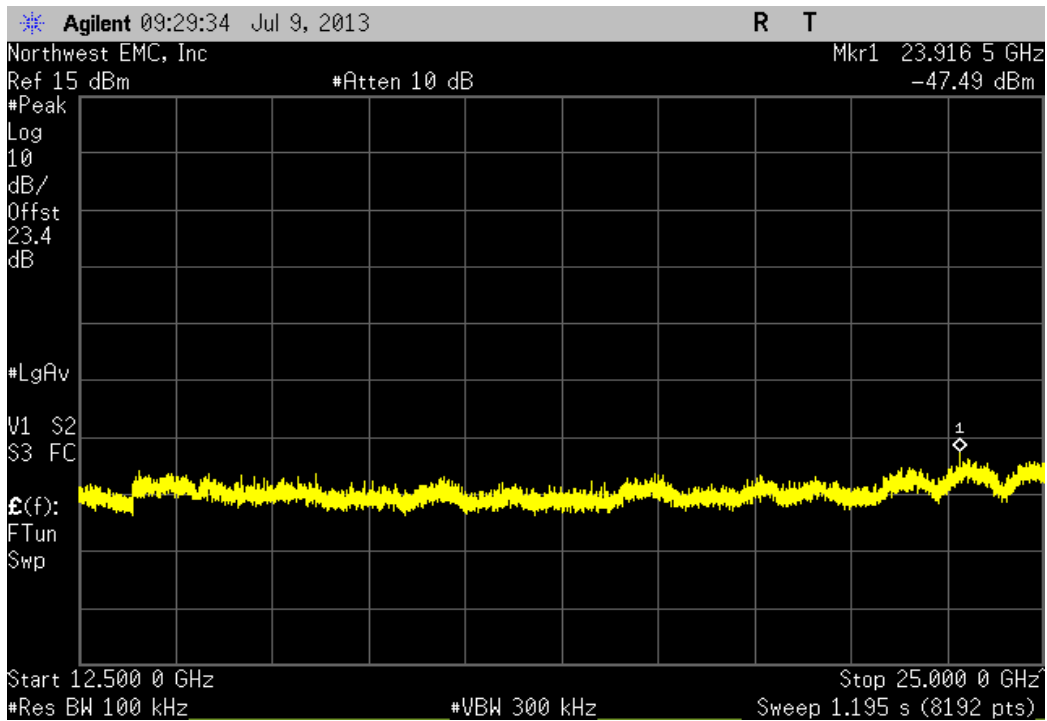


| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                      |  | -48.28 dBc | ≤ -20 dBc | Pass   |

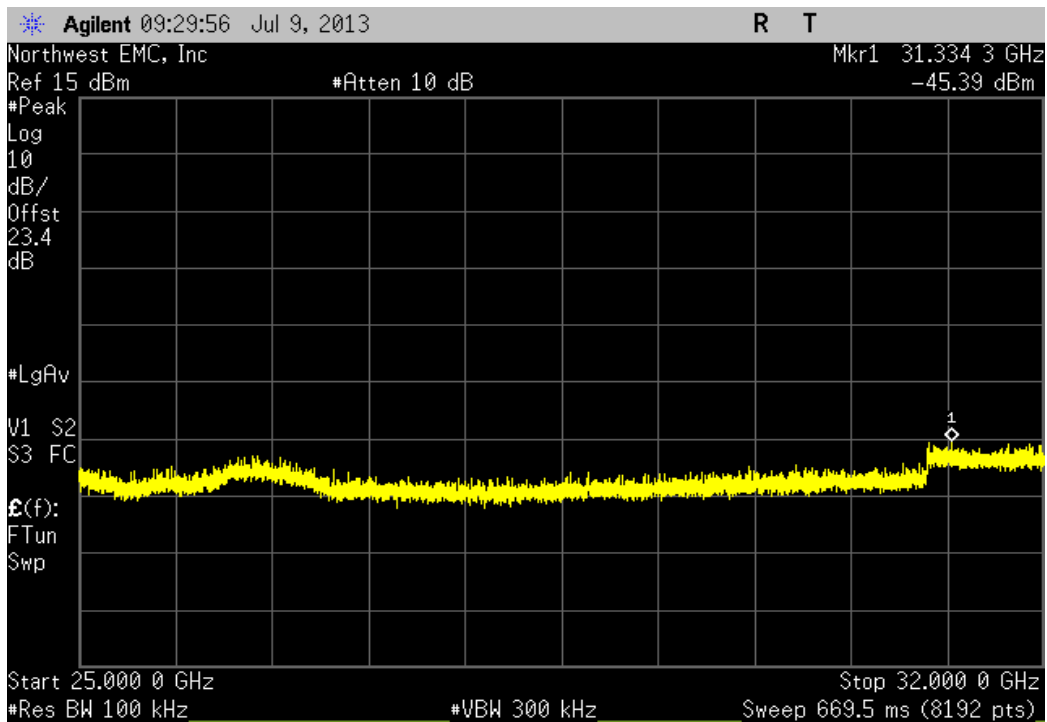




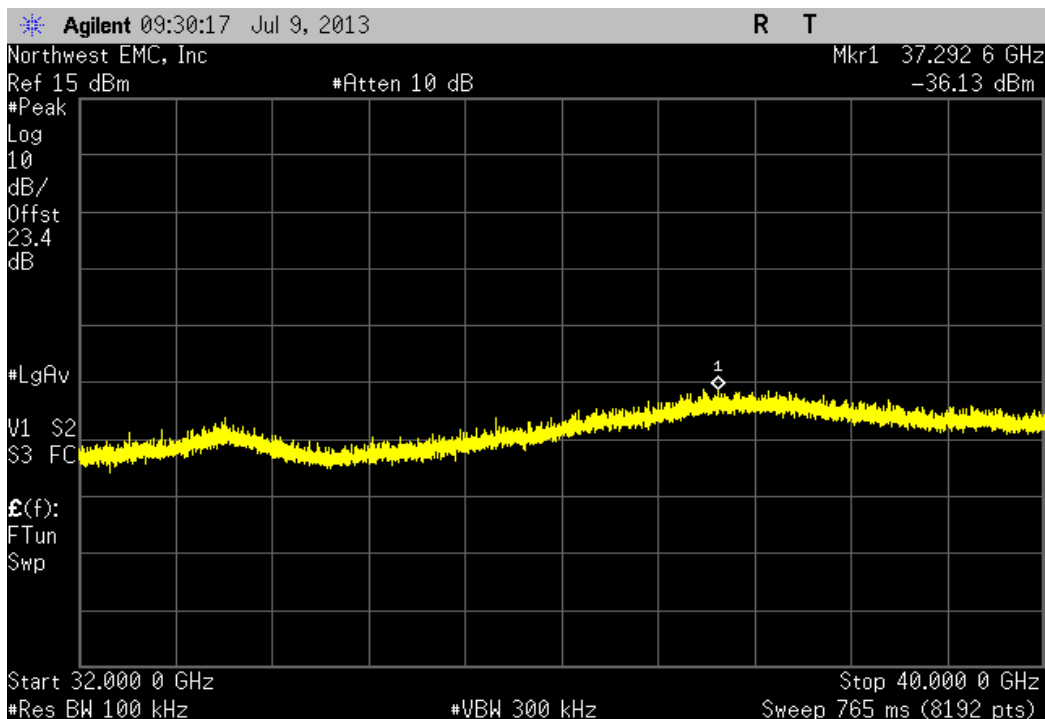
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                      |  | -44.86 dBc | ≤ -20 dBc | Pass   |



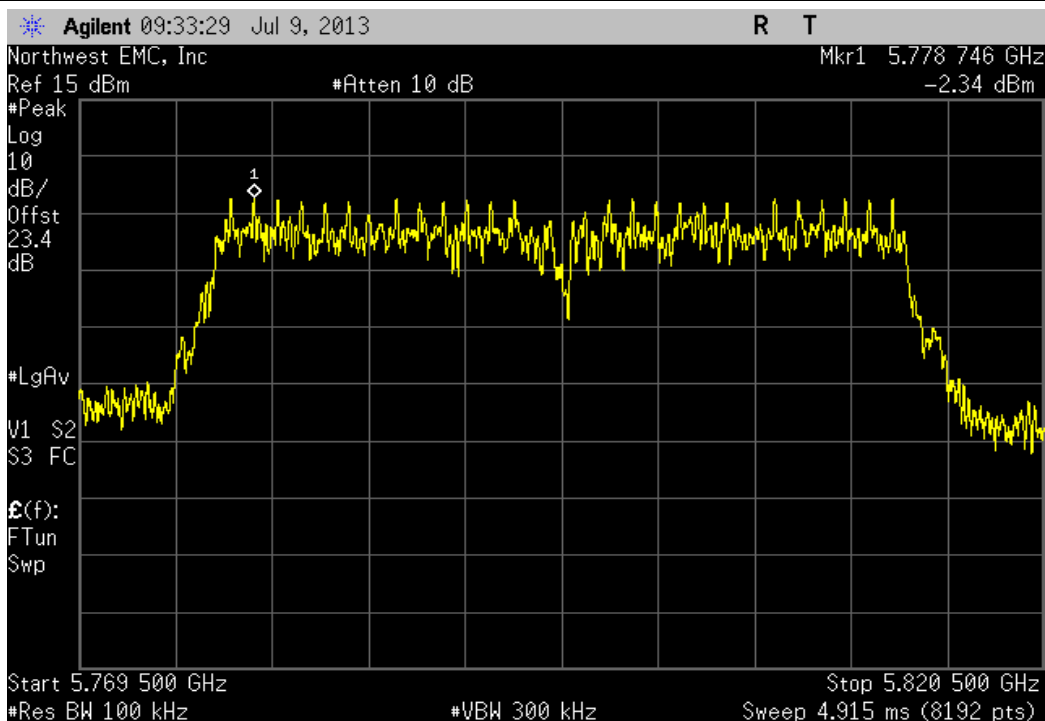
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                        |  | -42.75 dBc | ≤ -20 dBc | Pass   |



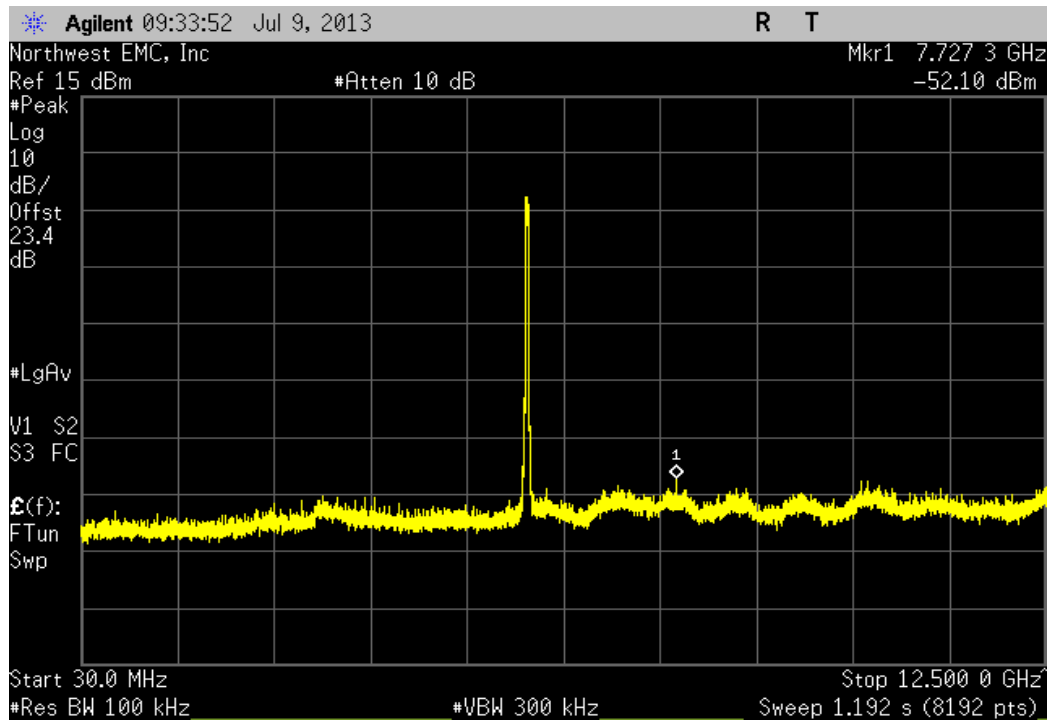
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                        |  | -33.49 dBc | ≤ -20 dBc | Pass   |



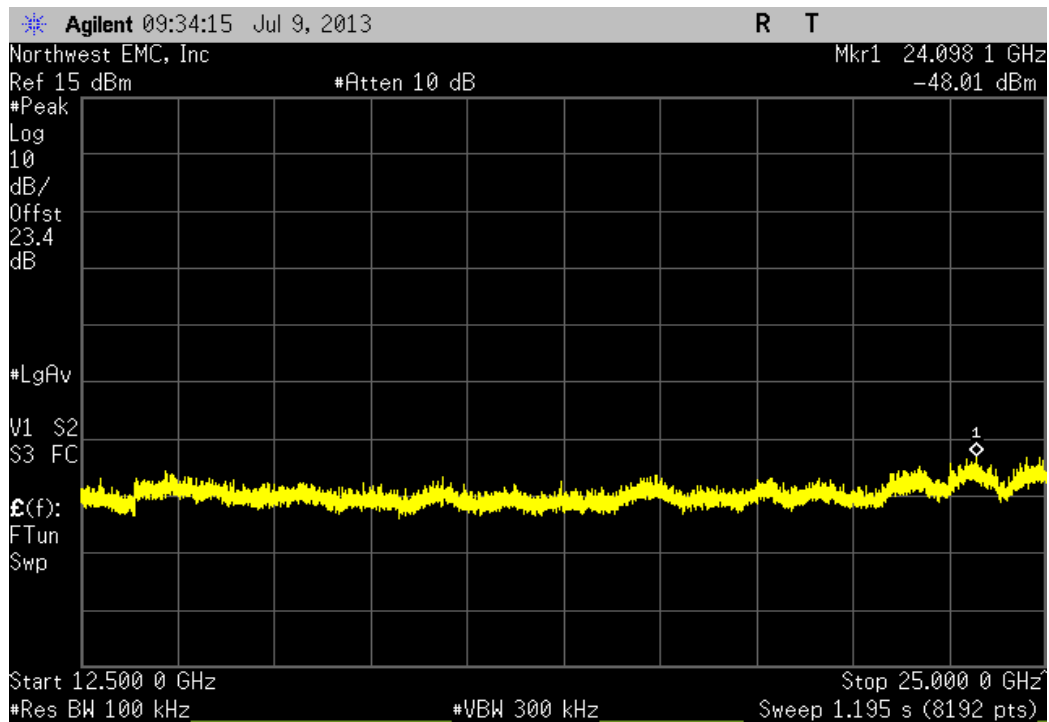
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |  |       |       |        |
|-----------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                         |  | Value | Limit | Result |
| Fundamental                                                                             |  | N/A   | N/A   | N/A    |



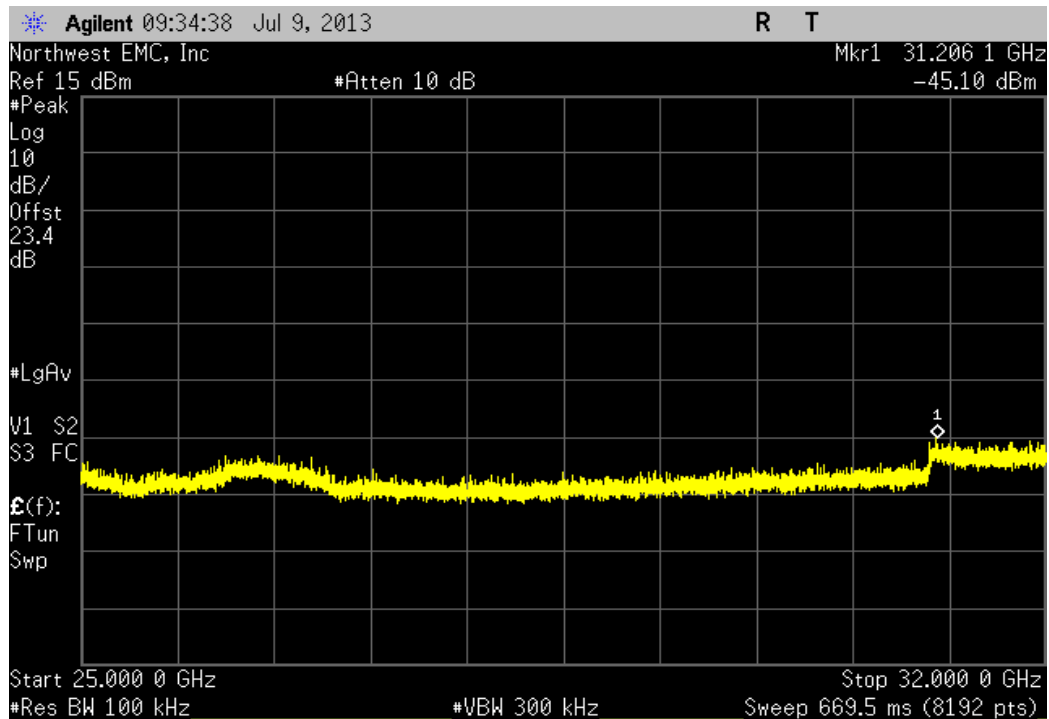
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -49.76 dBc | ≤ -20 dBc | Pass   |  |



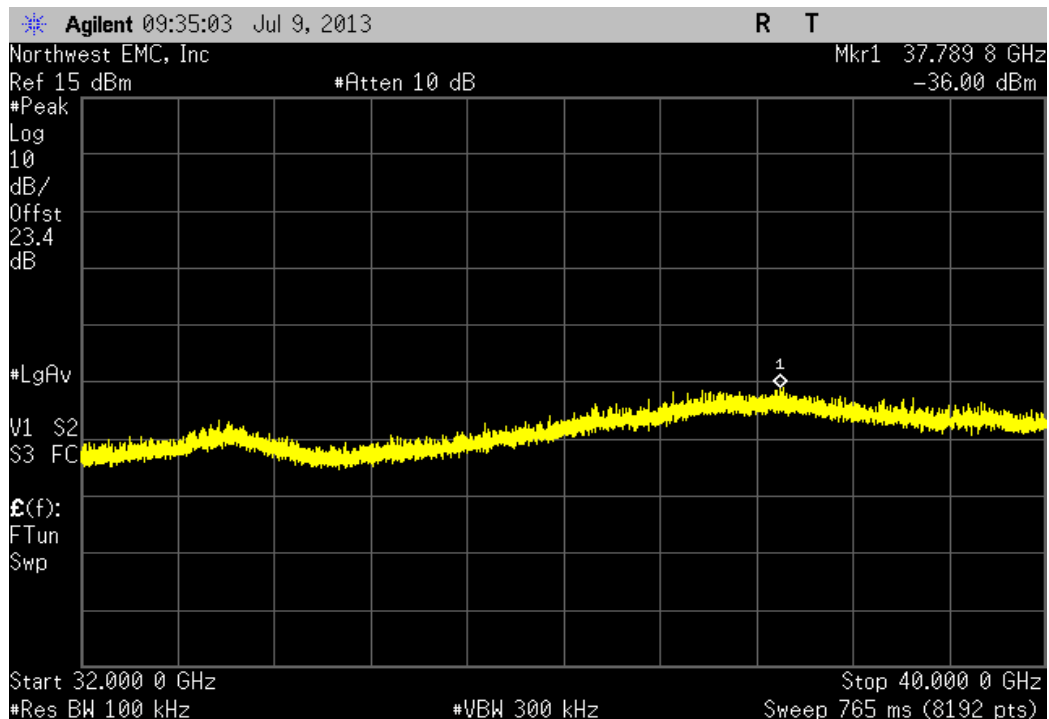
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -45.67 dBc | ≤ -20 dBc | Pass   |  |



| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |  |            |           |        |
|-----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                         |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                         |  | -42.76 dBc | ≤ -20 dBc | Pass   |



| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |  |            |           |        |
|-----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                         |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                         |  | -33.66 dBc | ≤ -20 dBc | Pass   |



## Spurious Conducted Emissions - Antenna B

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

### TEST EQUIPMENT

| Description       | Manufacturer       | Model            | ID  | Last Cal. | Interval |
|-------------------|--------------------|------------------|-----|-----------|----------|
| Signal Generator  | Agilent            | N5183A           | TID | 9/19/2011 | 36       |
| Attenuator        | Fairview Microwave | SA4014-20        | TKE | 2/12/2013 | 12       |
| Spectrum Analyzer | Agilent            | E4446A           | AAT | 6/28/2012 | 24       |
| NC02 Cable        | ESM Cable Corp     | TBBJ-141 KMKM-72 | NC5 | 7/3/2013  | 12       |

### TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



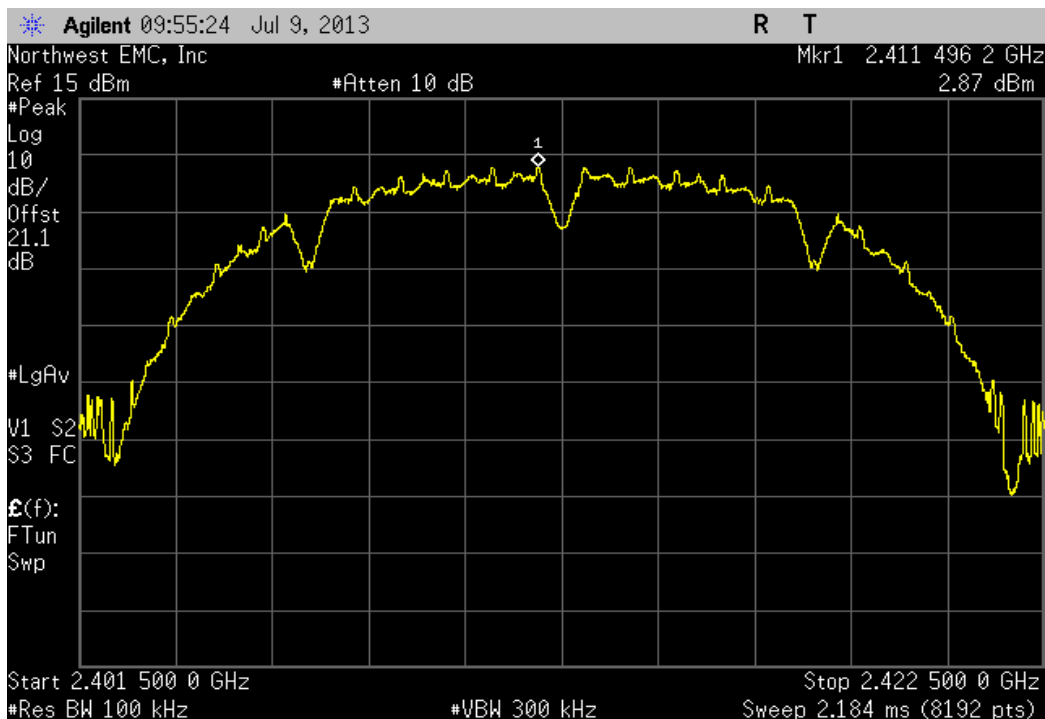
# Spurious Conducted Emissions - Antenna B

XMit 2013.02.28  
PsaTx 2013.06.07

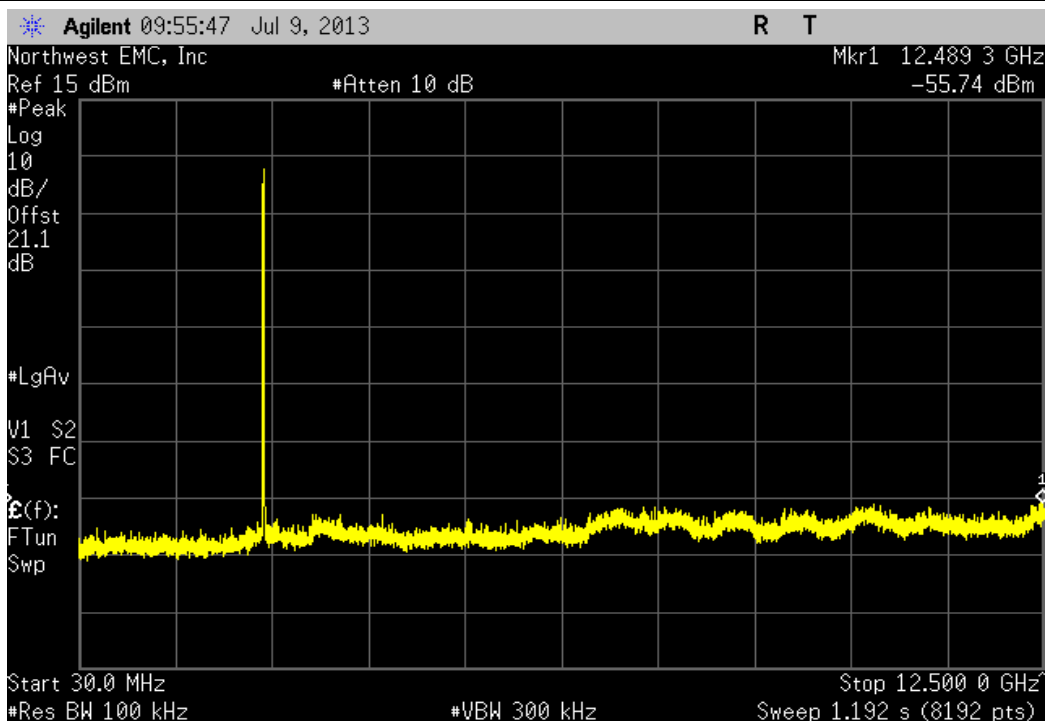
|                                                                                                                                                                        |   |                                                                                              |            |           |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------|------------|-----------|--------|
| EUT: 1601                                                                                                                                                              |   | Work Order: MCSO1665                                                                         |            |           |        |
| Serial Number: 006079632553                                                                                                                                            |   | Date: 07/09/13                                                                               |            |           |        |
| Customer: Microsoft Corporation                                                                                                                                        |   | Temperature: 23°C                                                                            |            |           |        |
| Attendees: None                                                                                                                                                        |   | Humidity: 45%                                                                                |            |           |        |
| Project: None                                                                                                                                                          |   | Barometric Pres.: 1020 mb                                                                    |            |           |        |
| Tested by: Richard Mellroth, Brandon Hobbs                                                                                                                             |   | Power: 110VAC/60Hz                                                                           |            |           |        |
| Job Site: NC02                                                                                                                                                         |   |                                                                                              |            |           |        |
| TEST SPECIFICATIONS                                                                                                                                                    |   | Test Method                                                                                  |            |           |        |
| FCC 15.247.2013                                                                                                                                                        |   | ANSI C63.10.2009                                                                             |            |           |        |
| COMMENTS                                                                                                                                                               |   |                                                                                              |            |           |        |
| EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset. |   |                                                                                              |            |           |        |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                          |   |                                                                                              |            |           |        |
| None                                                                                                                                                                   |   |                                                                                              |            |           |        |
| Configuration #                                                                                                                                                        | 1 | Signature  |            |           |        |
|                                                                                                                                                                        |   | Frequency Range                                                                              | Value      | Limit     | Result |
| 20 MHz                                                                                                                                                                 |   |                                                                                              |            |           |        |
| 2400 MHz - 2483.5 MHz Band                                                                                                                                             |   |                                                                                              |            |           |        |
| 802.11(b) 1 Mbps                                                                                                                                                       |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.6 dBc  | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.69 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -59.34 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.91 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -59.53 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.4 dBc  | ≤ -20 dBc | Pass   |
| 802.11(b) 11 Mbps                                                                                                                                                      |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -60.78 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -56.12 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -60.83 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -56.48 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -60.42 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -56.53 dBc | ≤ -20 dBc | Pass   |
| 802.11(g) 6 Mbps                                                                                                                                                       |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -57.63 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.62 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.18 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -54.12 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.3 dBc  | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -53.72 dBc | ≤ -20 dBc | Pass   |
| 802.11(g) 36 Mbps                                                                                                                                                      |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -57.6 dBc  | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -52.75 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -57.96 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -52.93 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.38 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.16 dBc | ≤ -20 dBc | Pass   |
| 802.11(g) 54 Mbps                                                                                                                                                      |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.18 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.32 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.55 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -52.83 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.17 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -54.32 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS0                                                                                                                                                         |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -55.96 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.4 dBc  | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -58.49 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.96 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -58.73 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -53.88 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS7                                                                                                                                                         |   |                                                                                              |            |           |        |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -54.88 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.74 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 30 MHz - 12.5 GHz                                                                            | -57.37 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 6, 2437 MHz                                                                                                                                                |   | 12.5 GHz - 25 GHz                                                                            | -53.23 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -57.45 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -53.15 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band                                                                                                                                               |   |                                                                                              |            |           |        |
| 802.11(a) 6 Mbps                                                                                                                                                       |   |                                                                                              |            |           |        |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -51.11 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -46.13 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                              | -43.41 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                              | -34.18 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 30 MHz - 12.5 GHz                                                                            | -50.53 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 12.5 GHz - 25 GHz                                                                            | -45.95 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 25 GHz - 32 GHz                                                                              | -43.27 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz                                                                                                                                              |   | 32 GHz - 40 GHz                                                                              | -34.24 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz                                                                                                                                             |   | Fundamental                                                                                  | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 30 MHz - 12.5 GHz                                                                            | -50.16 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 12.5 GHz - 25 GHz                                                                            | -45.88 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 25 GHz - 32 GHz                                                                              | -42.61 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz                                                                                                                                             |   | 32 GHz - 40 GHz                                                                              | -33.37 dBc | ≤ -20 dBc | Pass   |

|                                   | Frequency Range   | Value      | Limit     | Result |
|-----------------------------------|-------------------|------------|-----------|--------|
| <b>802.11(a) 36 Mbps</b>          |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -50.9 dBc  | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -46.84 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -43.67 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -34.78 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -50.25 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -45.84 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -43.51 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -34.08 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -50.18 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -45.78 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -43.19 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -33.71 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(a) 54 Mbps</b>          |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -50.49 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -46.01 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -43.53 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -34.04 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -50.62 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -46.41 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -43.18 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -34.14 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -50.12 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -45.35 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -42.76 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -33.49 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS0 - UNII</b>      |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -49.83 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -46.2 dBc  | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -44.06 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -33.99 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -51.42 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -46.49 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -43.72 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -34.01 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -48.86 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -45.98 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -42.95 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -33.27 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS7 - UNII</b>      |                   |            |           |        |
| Low Channel 149, 5745 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149, 5745 MHz         | 30 MHz - 12.5 GHz | -50.75 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 12.5 GHz - 25 GHz | -46.14 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 25 GHz - 32 GHz   | -42.95 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149, 5745 MHz         | 32 GHz - 40 GHz   | -33.92 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 157, 5785 MHz         | 30 MHz - 12.5 GHz | -51.19 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 12.5 GHz - 25 GHz | -46.3 dBc  | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 25 GHz - 32 GHz   | -43.72 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 157, 5785 MHz         | 32 GHz - 40 GHz   | -33.99 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 165, 5825 MHz        | 30 MHz - 12.5 GHz | -50.44 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 12.5 GHz - 25 GHz | -46.02 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 25 GHz - 32 GHz   | -42.15 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz        | 32 GHz - 40 GHz   | -33.74 dBc | ≤ -20 dBc | Pass   |
| <b>40 MHz</b>                     |                   |            |           |        |
| <b>2400 MHz - 2483.5 MHz Band</b> |                   |            |           |        |
| <b>802.11(n) MCS0</b>             |                   |            |           |        |
| Low Channel 1/5, 2422 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 1/5, 2422 MHz         | 30 MHz - 12.5 GHz | -46.89 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1/5, 2422 MHz         | 12.5 GHz - 25 GHz | -50.72 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 4/8, 2437 MHz         | 30 MHz - 12.5 GHz | -55.1 dBc  | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | 12.5 GHz - 25 GHz | -50.36 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 7/11, 2452 MHz       | 30 MHz - 12.5 GHz | -54.95 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | 12.5 GHz - 25 GHz | -50.2 dBc  | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS7</b>             |                   |            |           |        |
| Low Channel 1/5, 2422 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 1/5, 2422 MHz         | 30 MHz - 12.5 GHz | -42.26 dBc | ≤ -20 dBc | Pass   |
| Low Channel 1/5, 2422 MHz         | 12.5 GHz - 25 GHz | -50.93 dBc | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | Fundamental       | N/A        | N/A       | N/A    |
| Mid Channel 4/8, 2437 MHz         | 30 MHz - 12.5 GHz | -51.8 dBc  | ≤ -20 dBc | Pass   |
| Mid Channel 4/8, 2437 MHz         | 12.5 GHz - 25 GHz | -50.57 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 7/11, 2452 MHz       | 30 MHz - 12.5 GHz | -50.72 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz       | 12.5 GHz - 25 GHz | -50.96 dBc | ≤ -20 dBc | Pass   |
| <b>5725 MHz - 5850 MHz Band</b>   |                   |            |           |        |
| <b>802.11(n) MCS0 - UNII</b>      |                   |            |           |        |
| Low Channel 149/153, 5755 MHz     | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149/153, 5755 MHz     | 30 MHz - 12.5 GHz | -48.32 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 12.5 GHz - 25 GHz | -44.04 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 25 GHz - 32 GHz   | -41.21 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 32 GHz - 40 GHz   | -32.02 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 157/161, 5795 MHz    | 30 MHz - 12.5 GHz | -48.7 dBc  | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 12.5 GHz - 25 GHz | -43.91 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 25 GHz - 32 GHz   | -40.55 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 32 GHz - 40 GHz   | -32.22 dBc | ≤ -20 dBc | Pass   |
| <b>802.11(n) MCS7 - UNII</b>      |                   |            |           |        |
| Low Channel 149/153, 5755 MHz     | Fundamental       | N/A        | N/A       | N/A    |
| Low Channel 149/153, 5755 MHz     | 30 MHz - 12.5 GHz | -47.62 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 12.5 GHz - 25 GHz | -43.95 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 25 GHz - 32 GHz   | -40.89 dBc | ≤ -20 dBc | Pass   |
| Low Channel 149/153, 5755 MHz     | 32 GHz - 40 GHz   | -31.75 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | Fundamental       | N/A        | N/A       | N/A    |
| High Channel 157/161, 5795 MHz    | 30 MHz - 12.5 GHz | -46.13 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 12.5 GHz - 25 GHz | -43.24 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 25 GHz - 32 GHz   | -40.19 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz    | 32 GHz - 40 GHz   | -31.49 dBc | ≤ -20 dBc | Pass   |

| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |

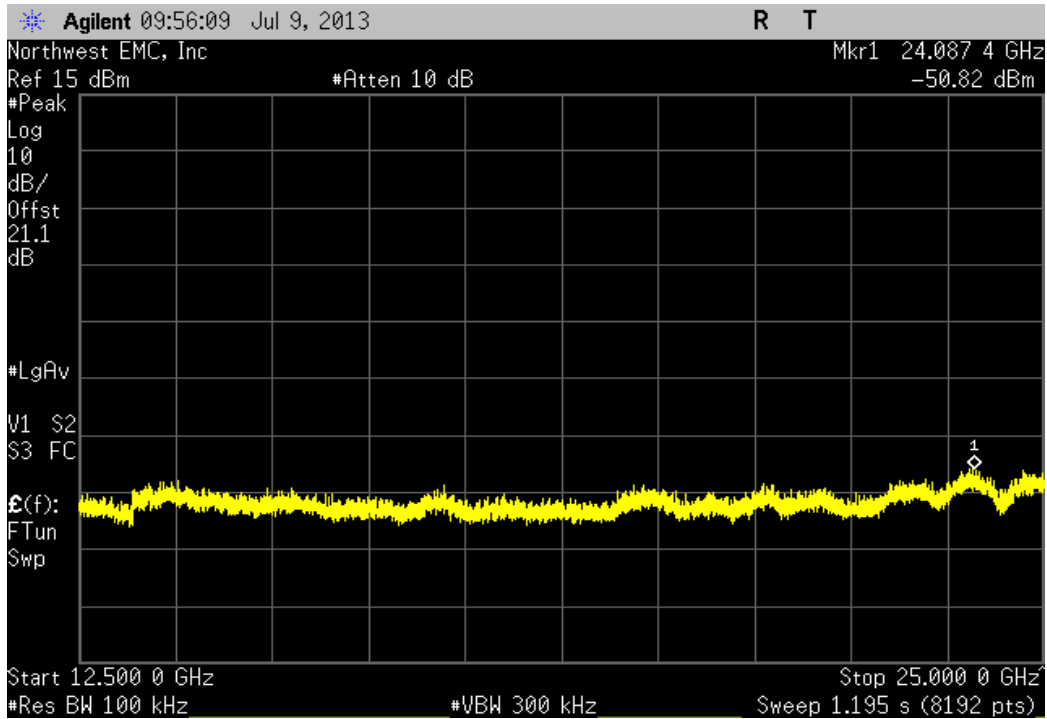


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz |  |           |           |        |
|-------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                               |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -58.6 dBc | ≤ -20 dBc | Pass   |

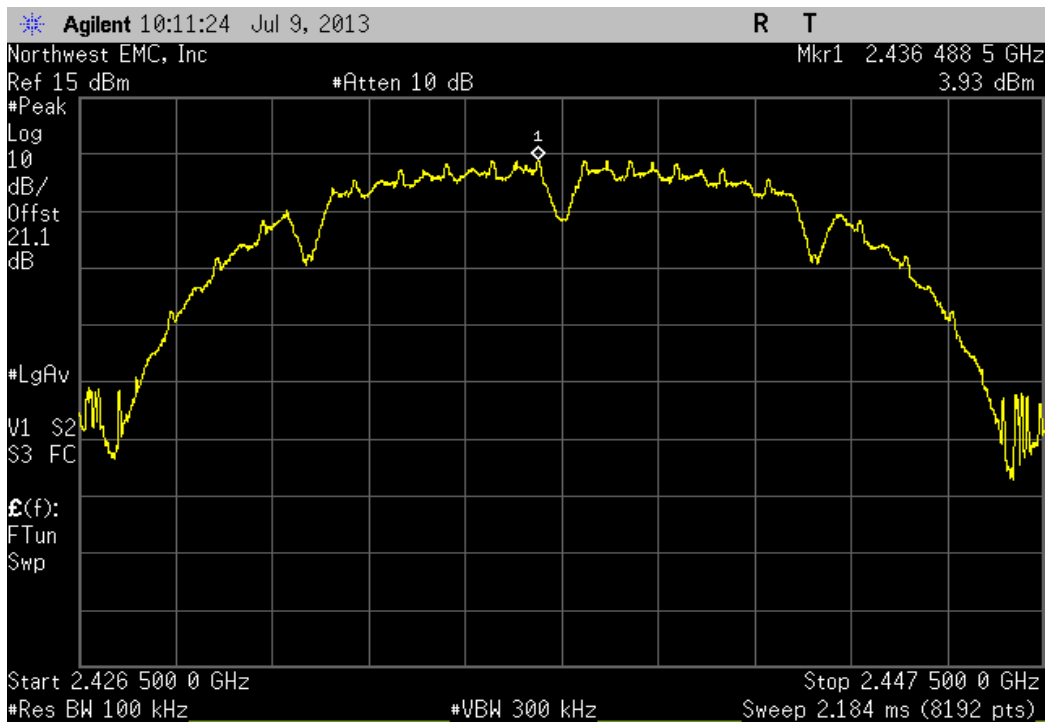




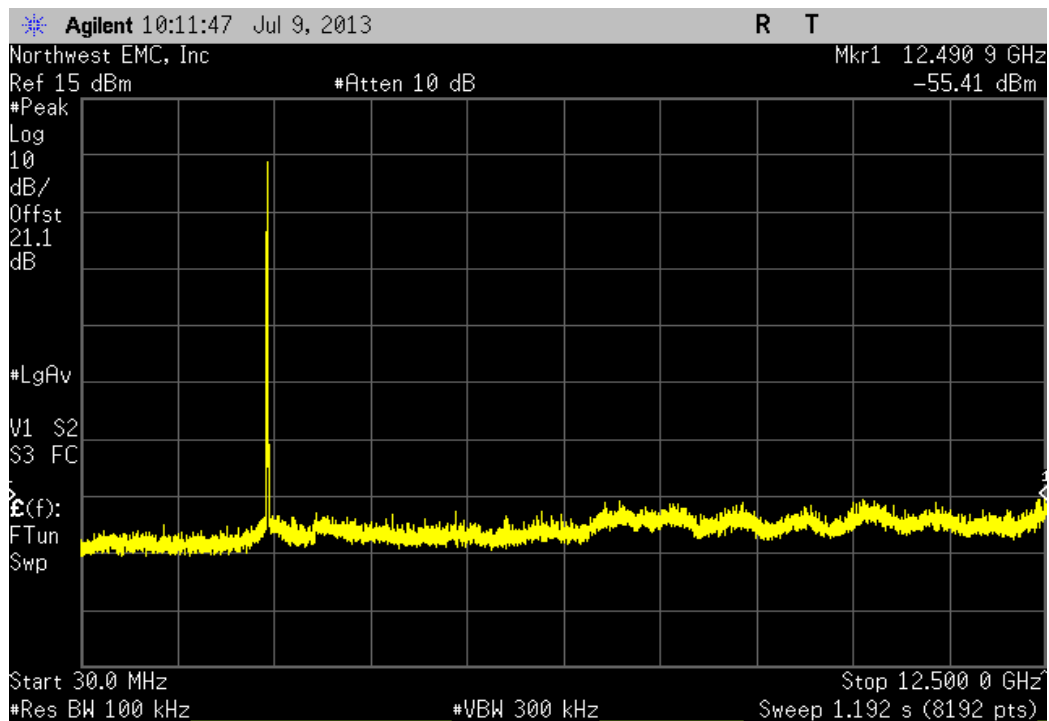
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -53.69 dBc | ≤ -20 dBc | Pass   |



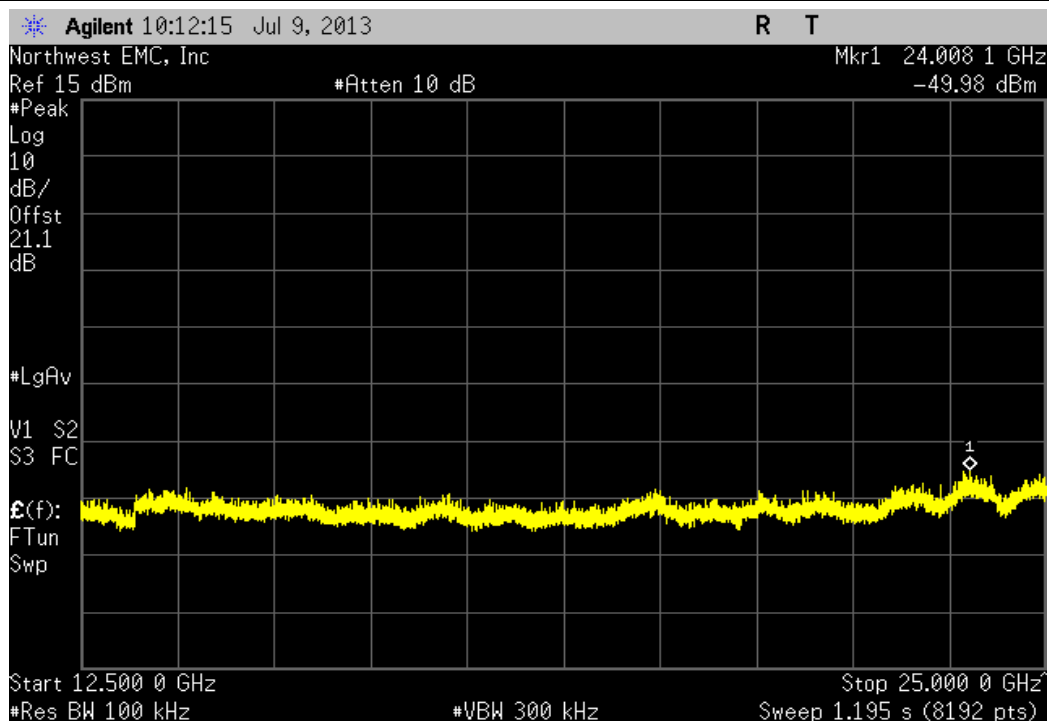
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



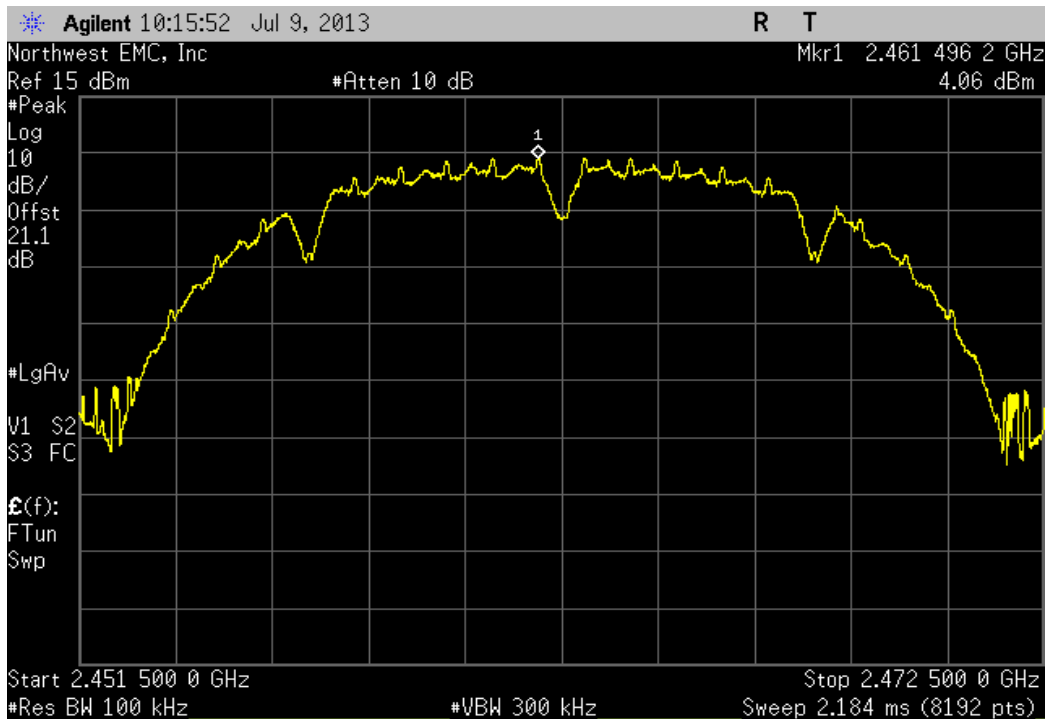
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -59.34 dBc | ≤ -20 dBc | Pass   |  |



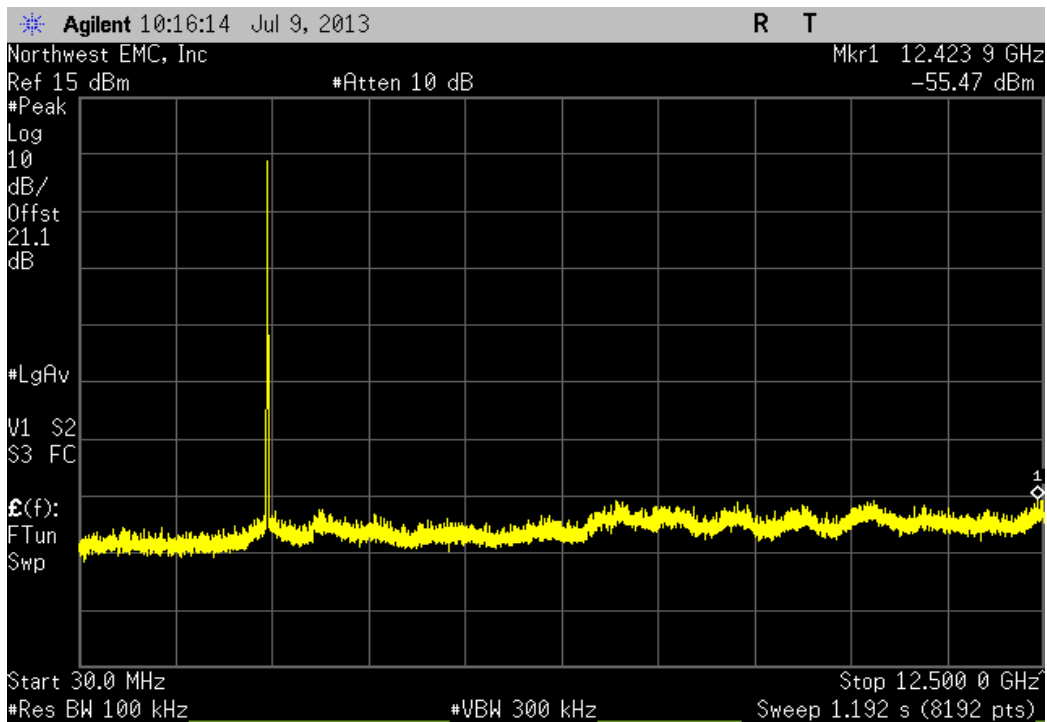
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -53.91 dBc | ≤ -20 dBc | Pass   |  |



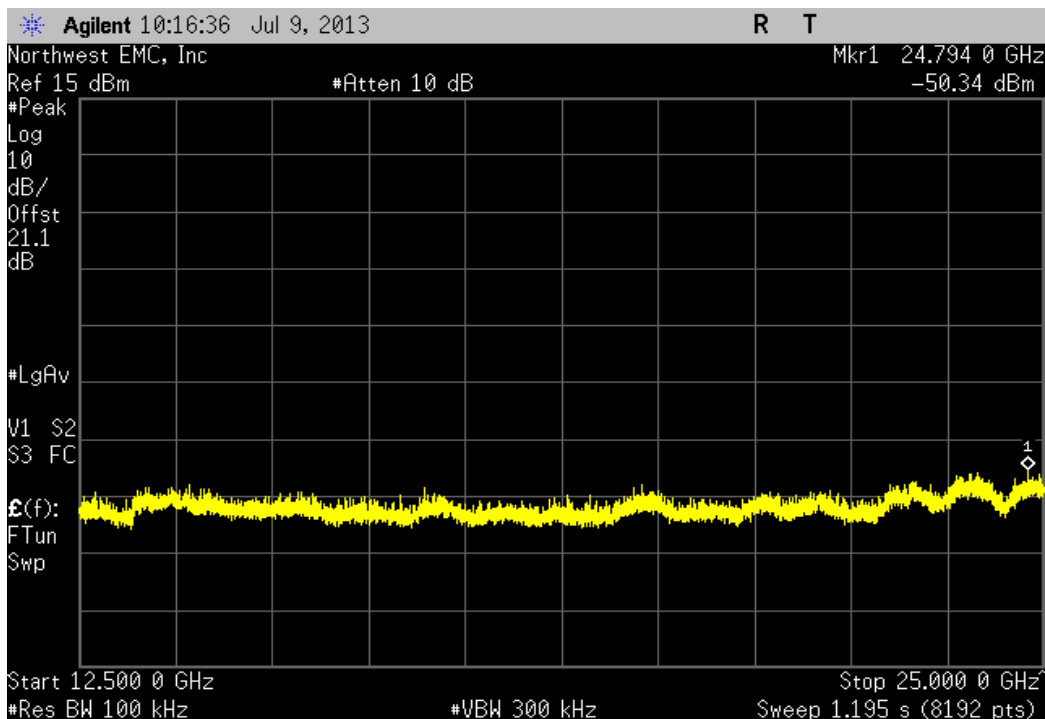
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                 |  |  |  | Value | Limit | Result |
| Fundamental                                                                     |  |  |  | N/A   | N/A   | N/A    |



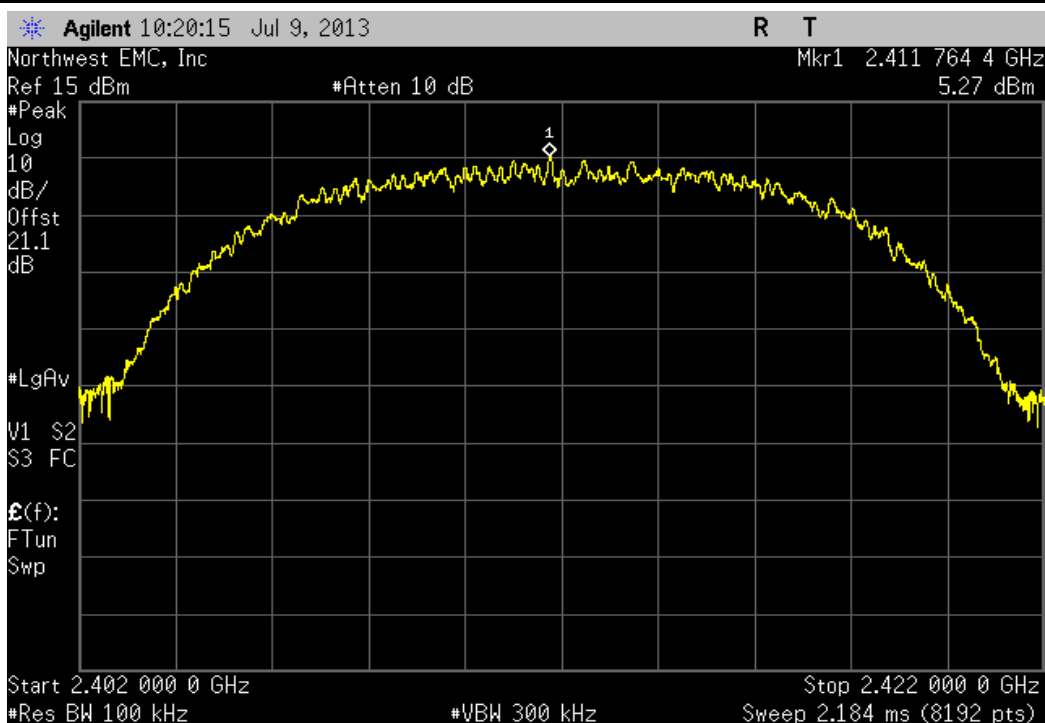
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz |  |  |  |            |           |        |
|---------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                 |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  |  |  | -59.53 dBc | ≤ -20 dBc | Pass   |



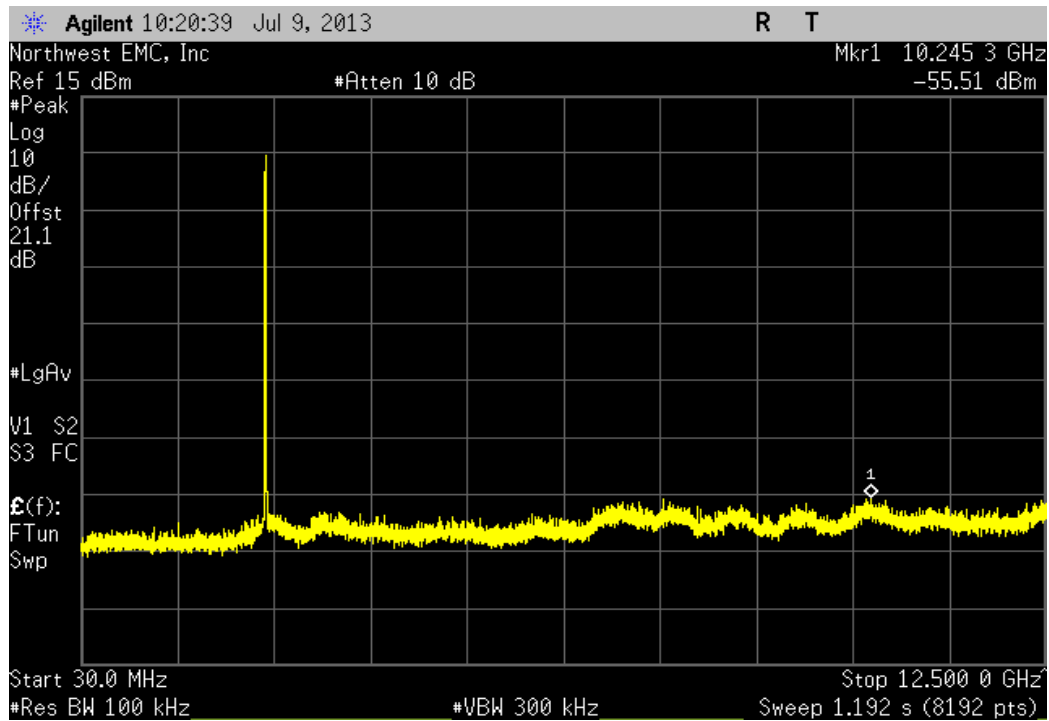
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz |           |           |        |  |
|---------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                 | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -54.4 dBc | ≤ -20 dBc | Pass   |  |



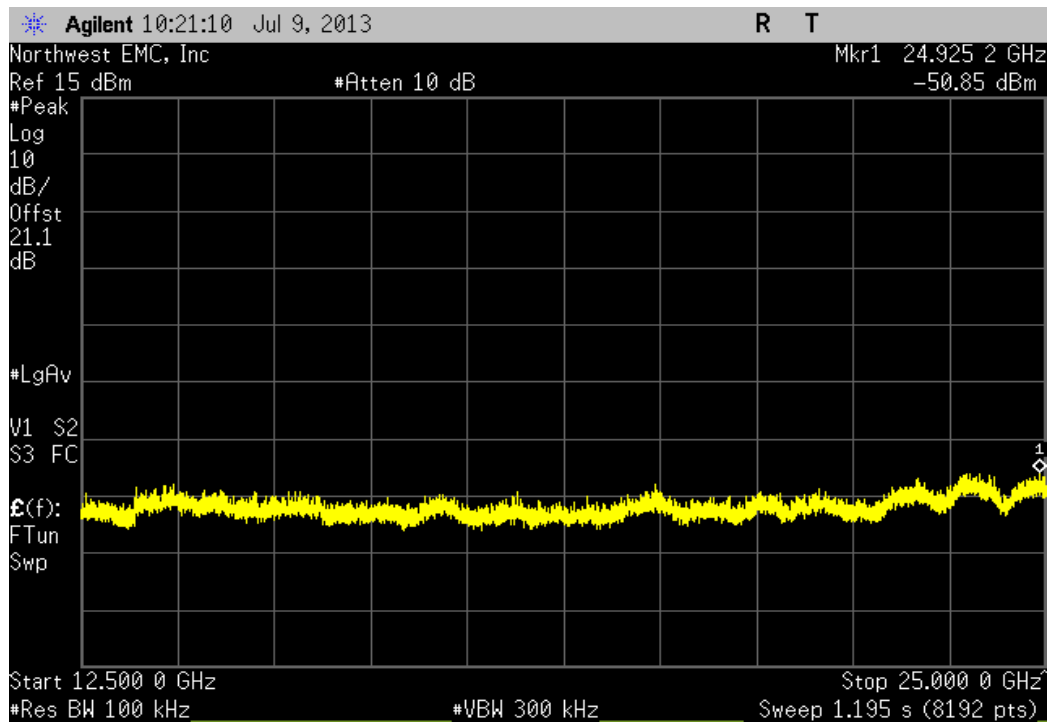
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz |       |       |        |  |
|--------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                | Value | Limit | Result |  |
| Fundamental                                                                    | N/A   | N/A   | N/A    |  |



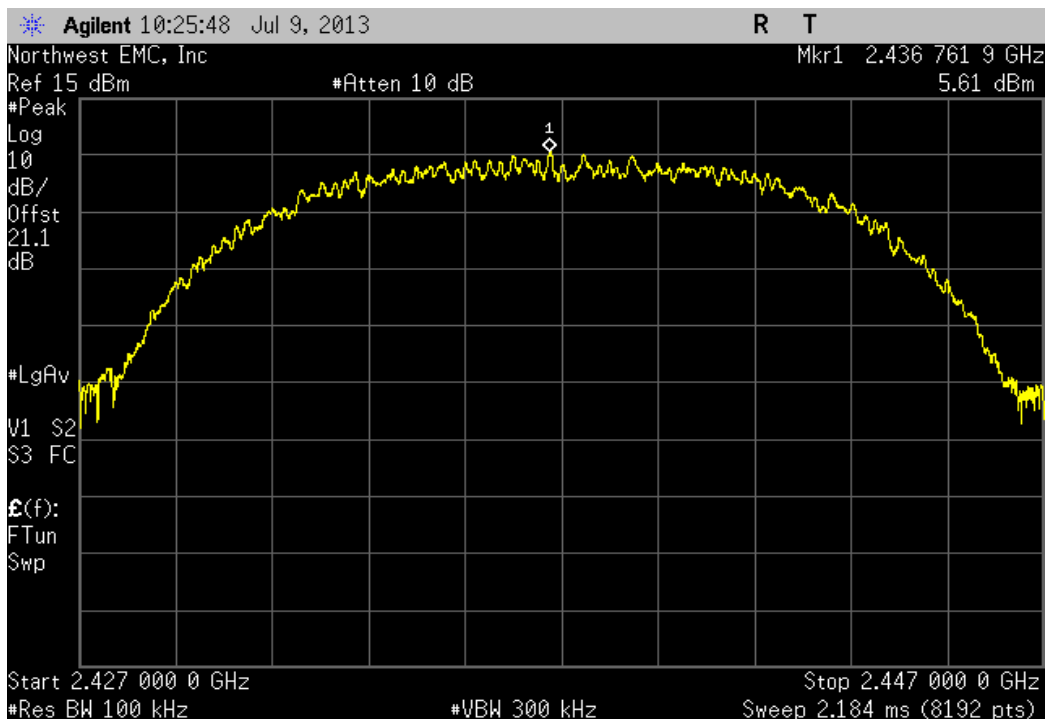
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -60.78 dBc | ≤ -20 dBc | Pass   |  |



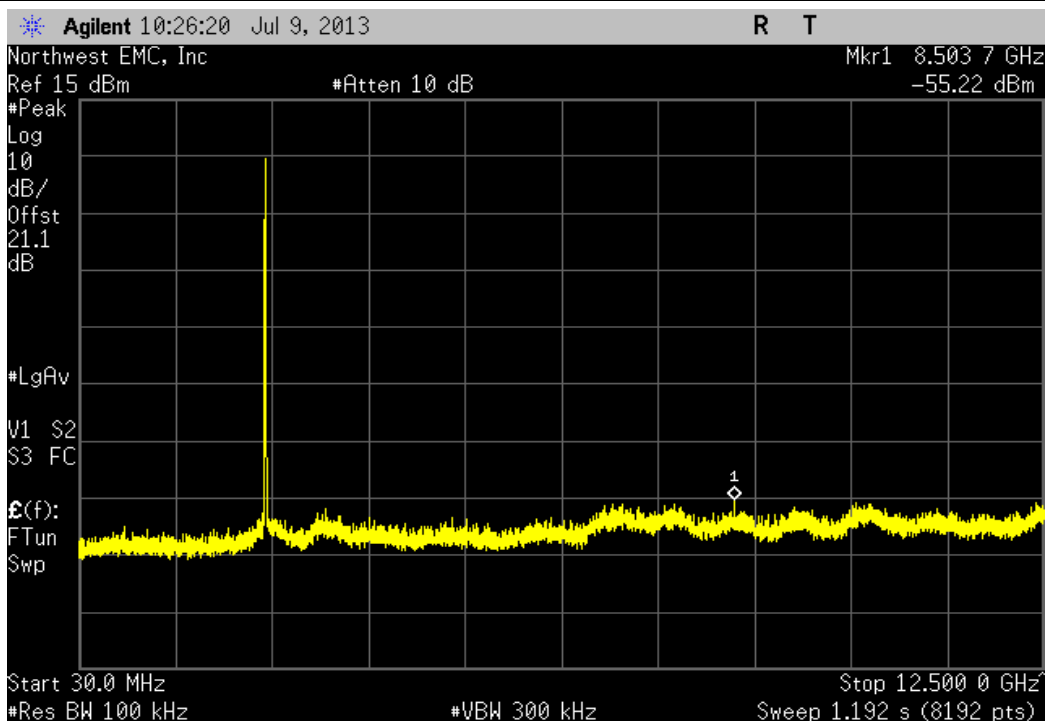
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -56.12 dBc | ≤ -20 dBc | Pass   |  |



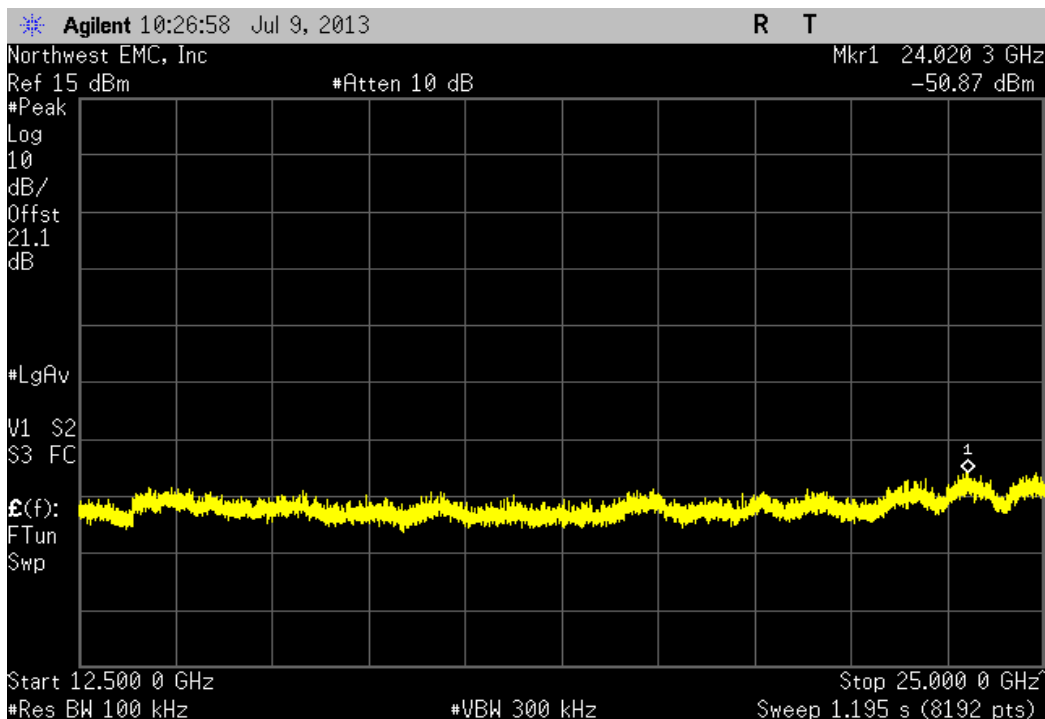
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



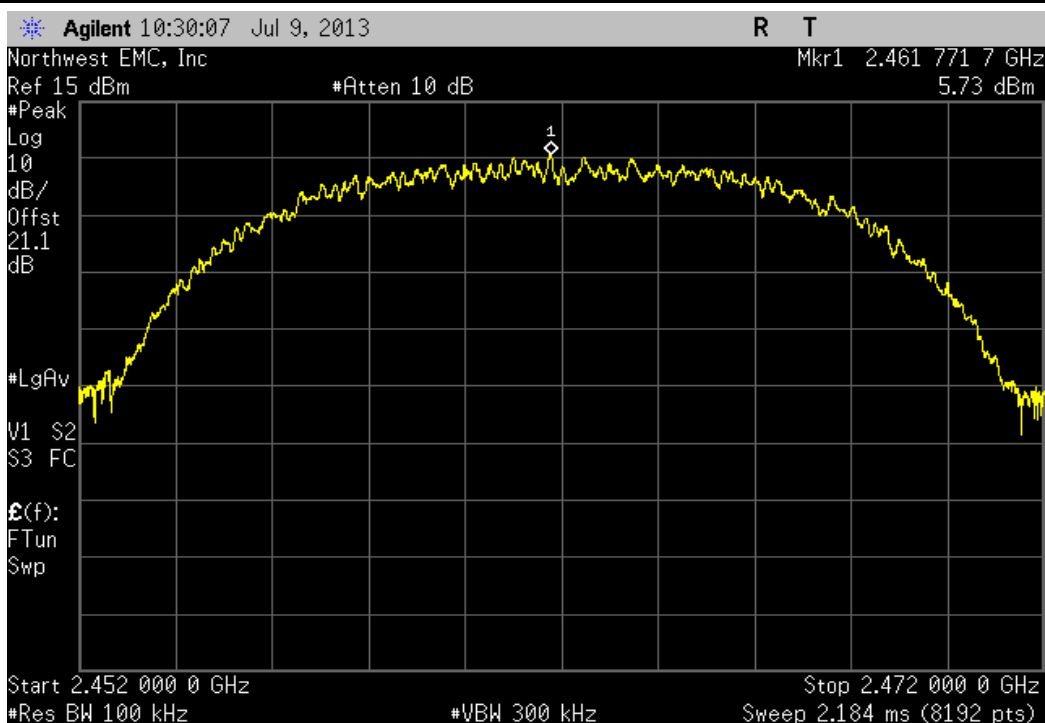
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  | -60.83 dBc | ≤ -20 dBc | Pass   |



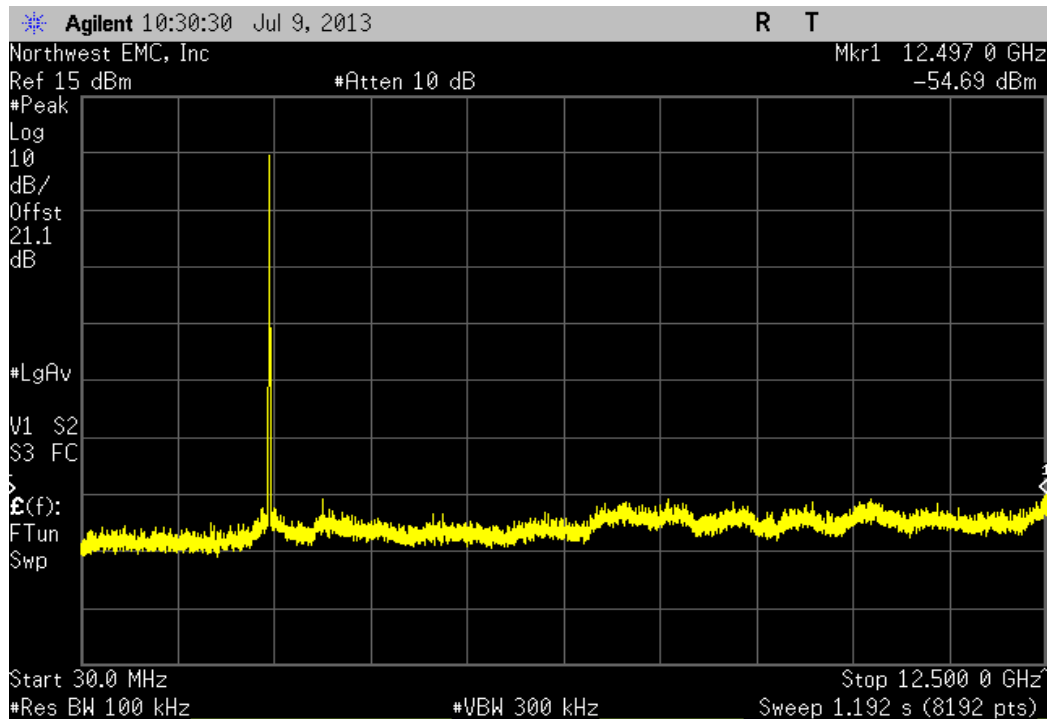
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -56.48 dBc | ≤ -20 dBc | Pass   |  |



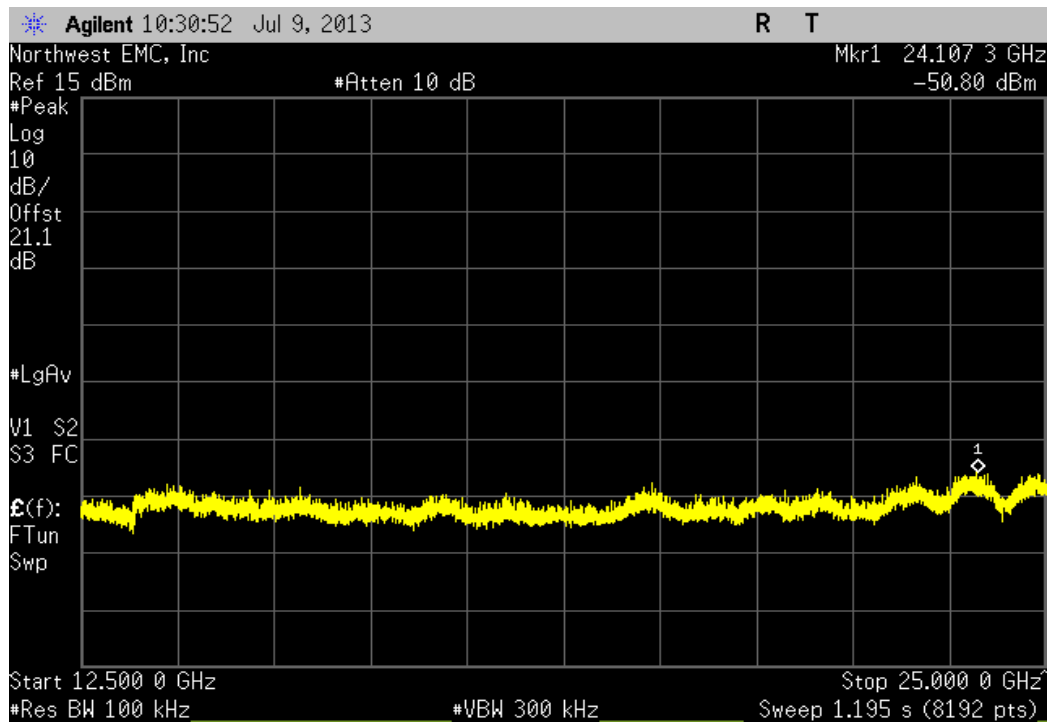
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz |       |       |        |  |
|----------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                  | Value | Limit | Result |  |
| Fundamental                                                                      | N/A   | N/A   | N/A    |  |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                | -60.42 dBc | ≤ -20 dBc | Pass   |  |

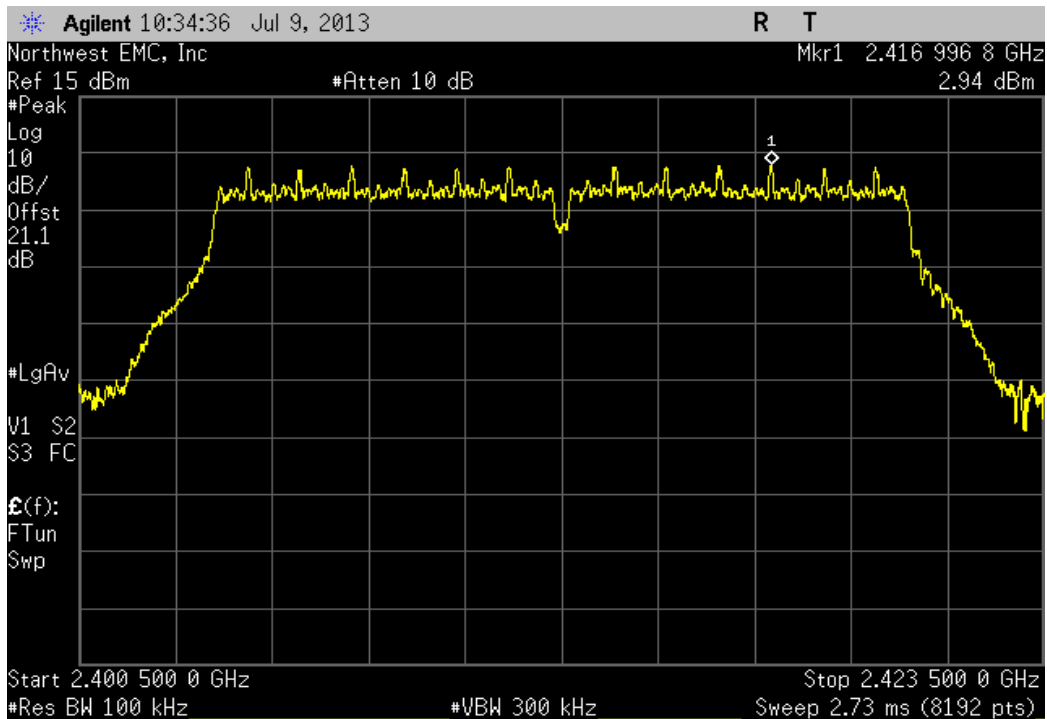


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                | -56.53 dBc | ≤ -20 dBc | Pass   |  |

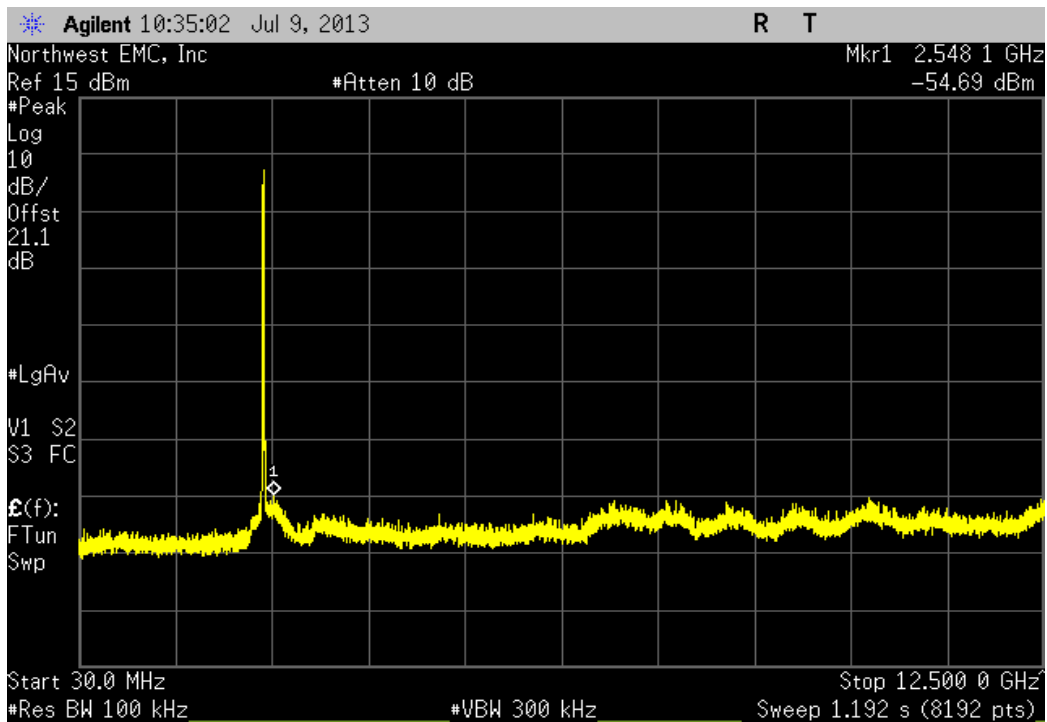




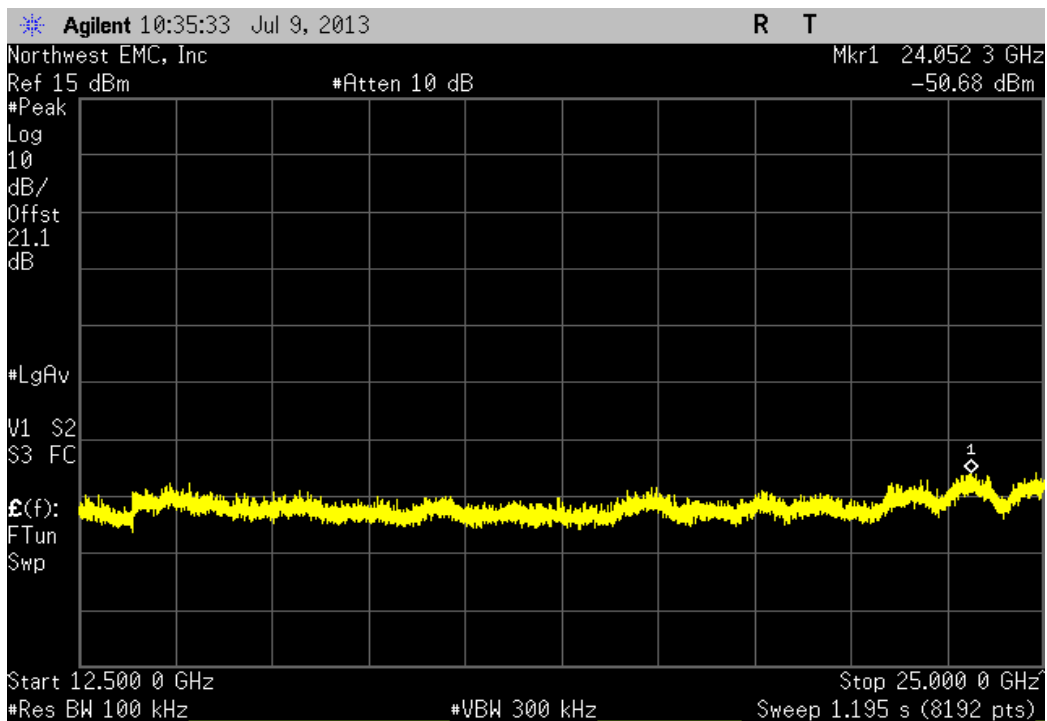
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



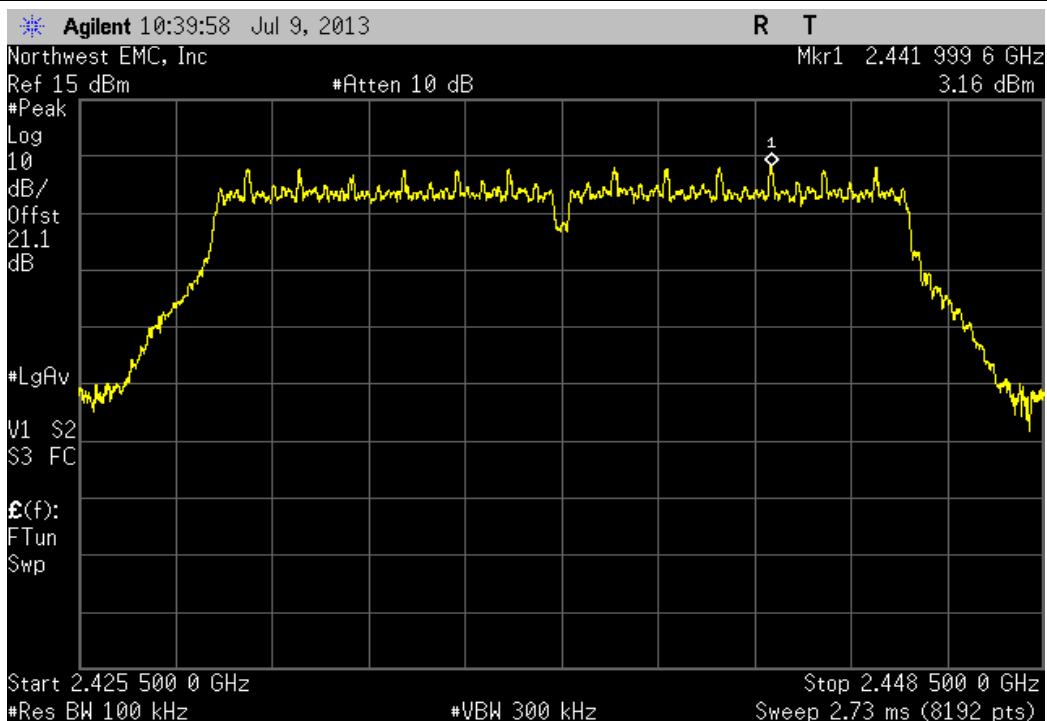
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -57.63 dBc | ≤ -20 dBc | Pass   |



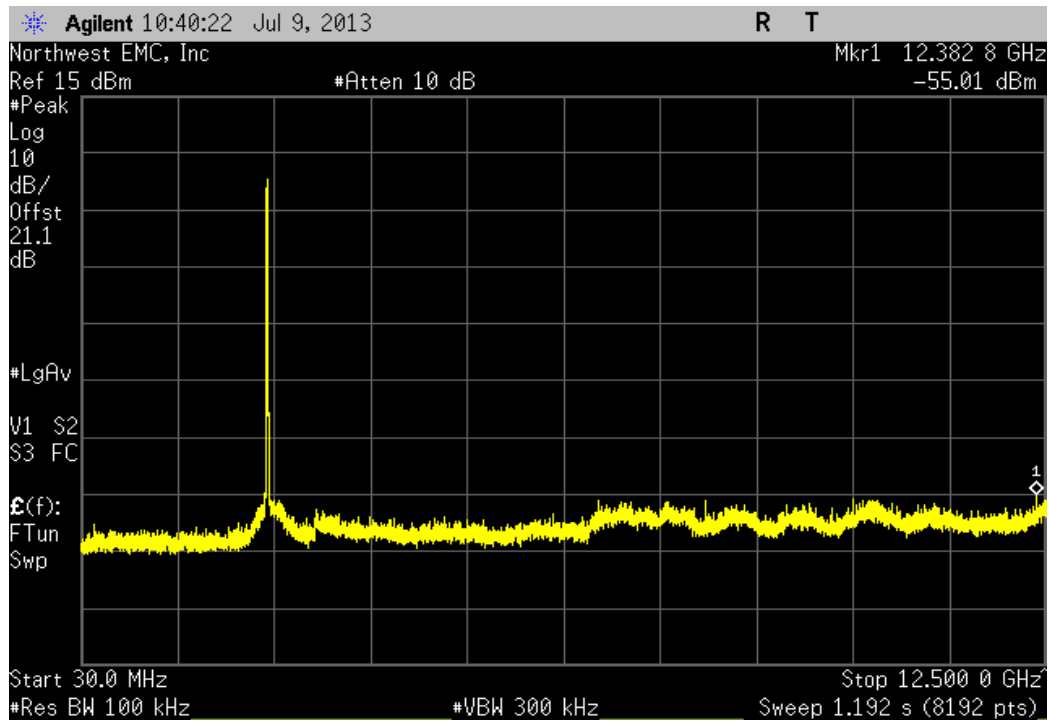
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -53.62 dBc | ≤ -20 dBc | Pass   |



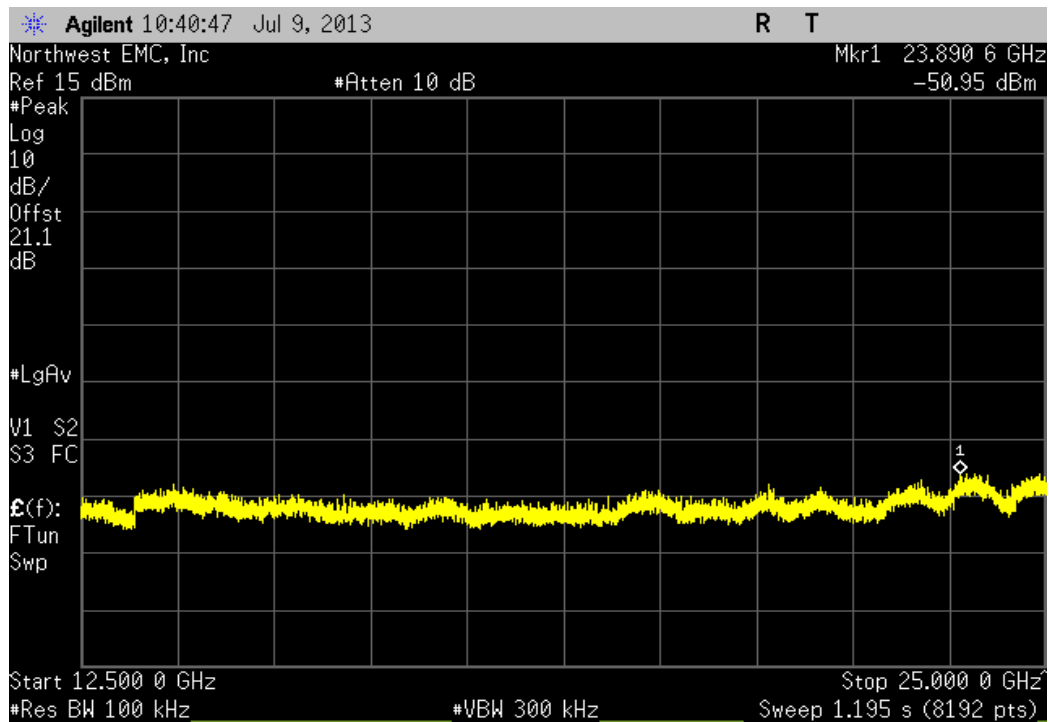
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



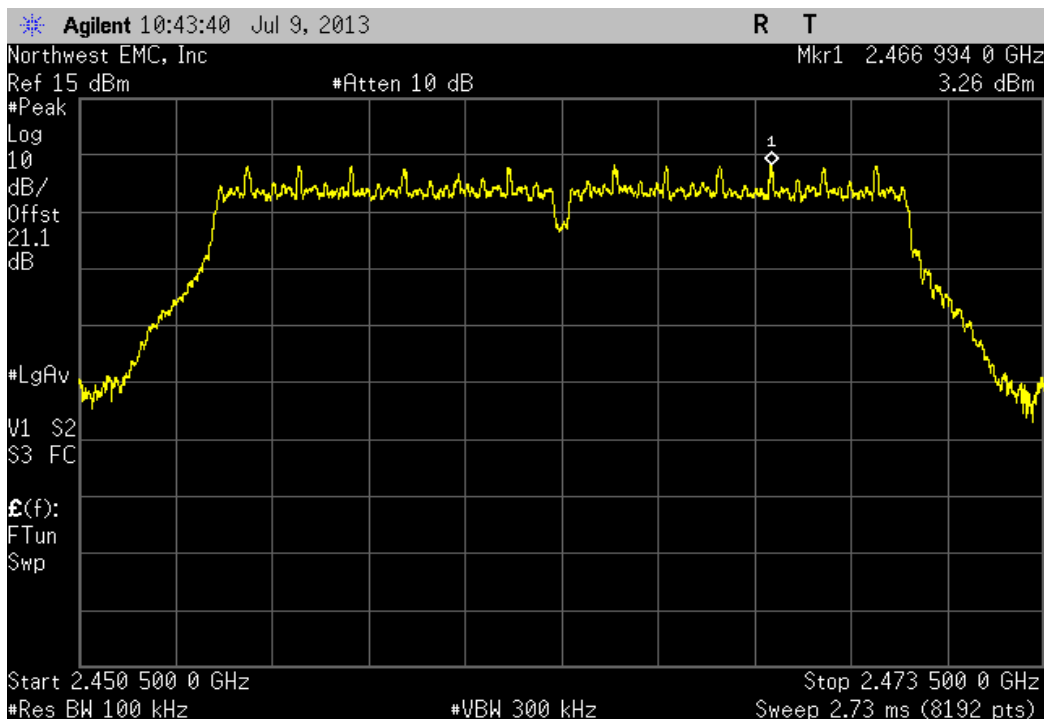
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -58.18 dBc | ≤ -20 dBc | Pass   |  |



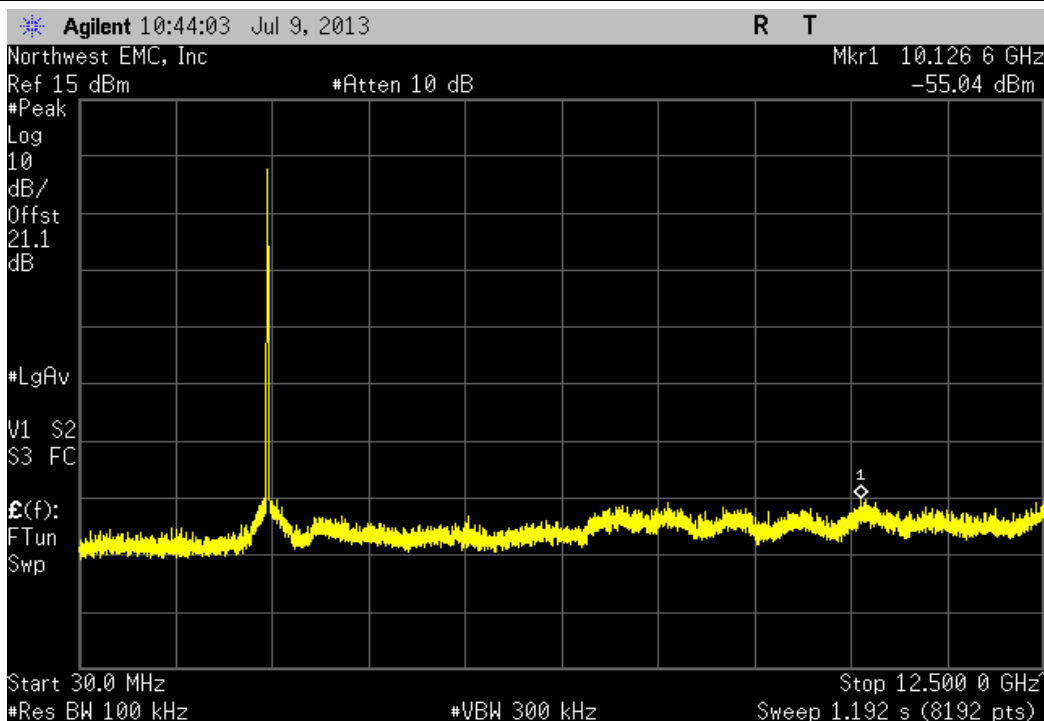
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -54.12 dBc | ≤ -20 dBc | Pass   |  |



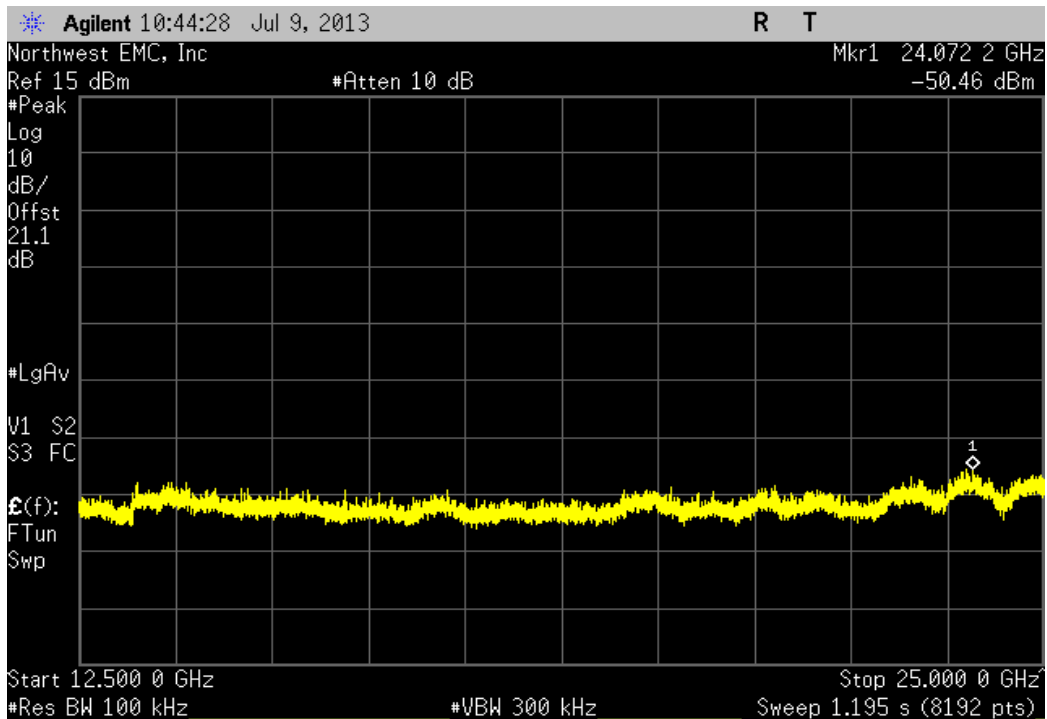
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |



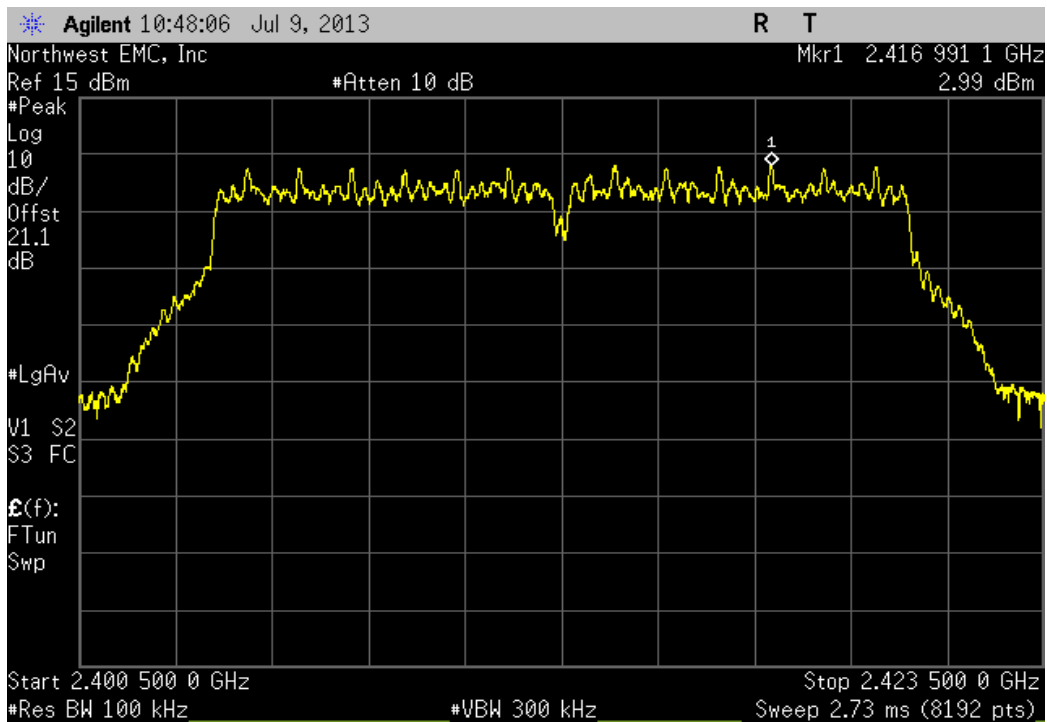
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz |  |           |           |        |
|---------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                 |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  | -58.3 dBc | ≤ -20 dBc | Pass   |



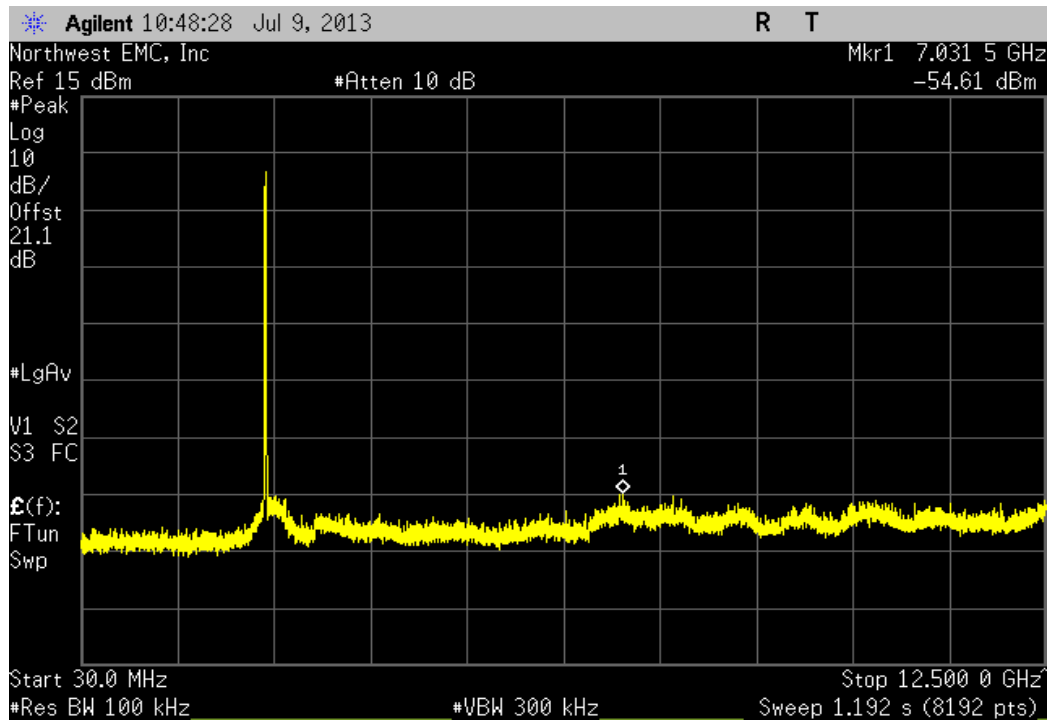
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -53.72 dBc | ≤ -20 dBc | Pass   |  |



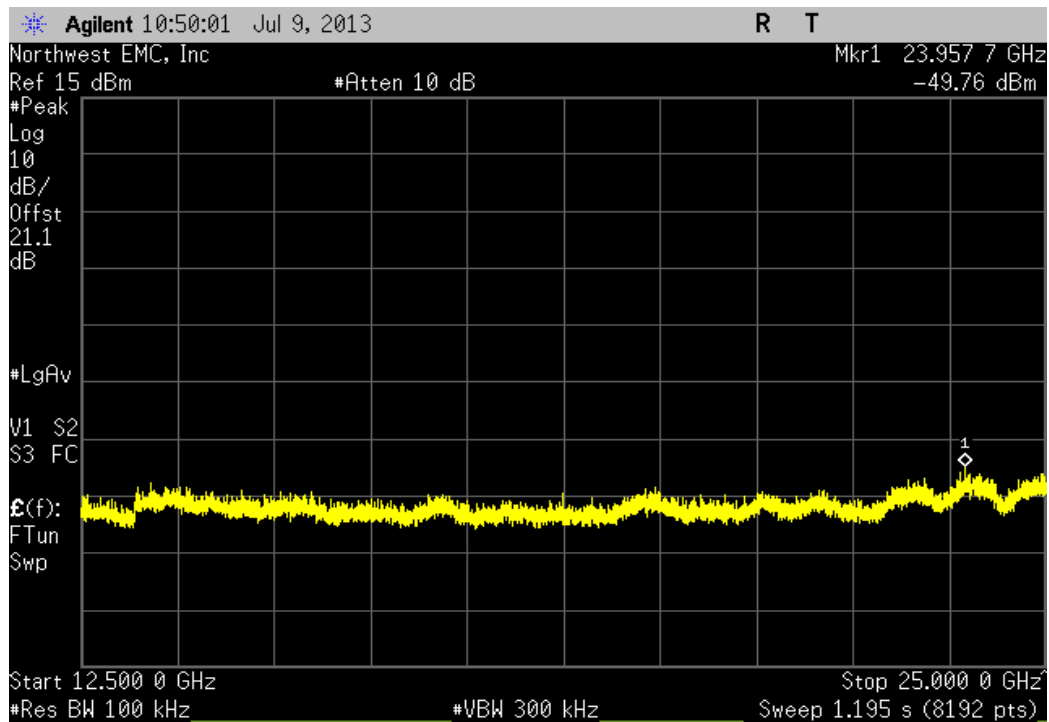
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz |       |       |        |  |
|--------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                | Value | Limit | Result |  |
| Fundamental                                                                    | N/A   | N/A   | N/A    |  |



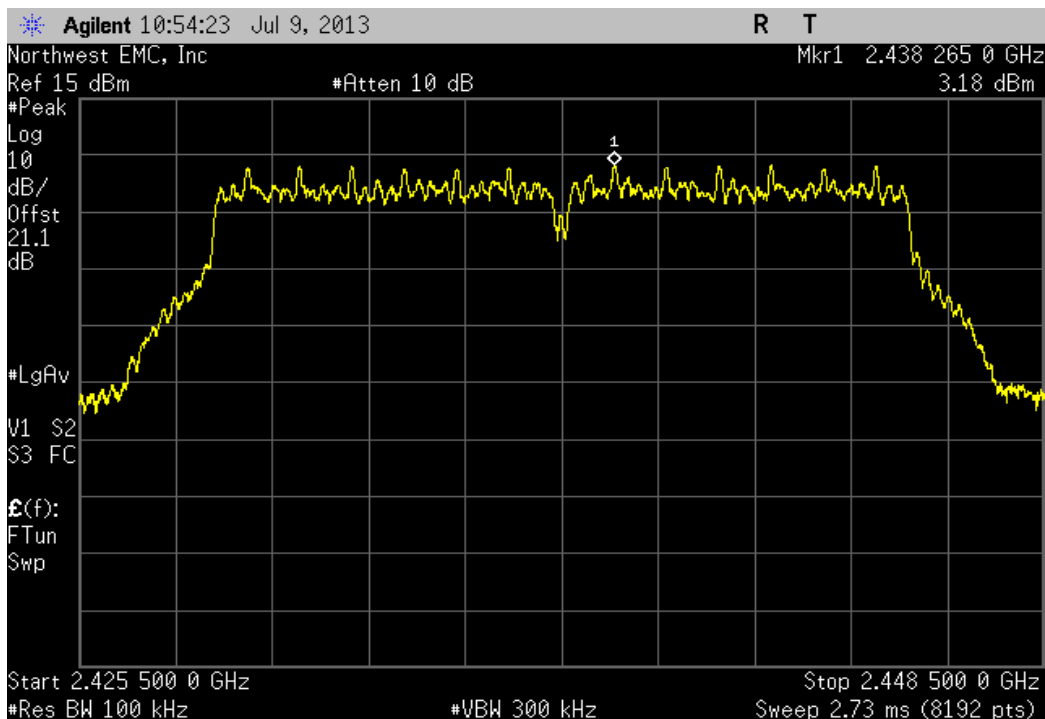
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz |           |           |        |  |
|--------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                | Value     | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -57.6 dBc | ≤ -20 dBc | Pass   |  |



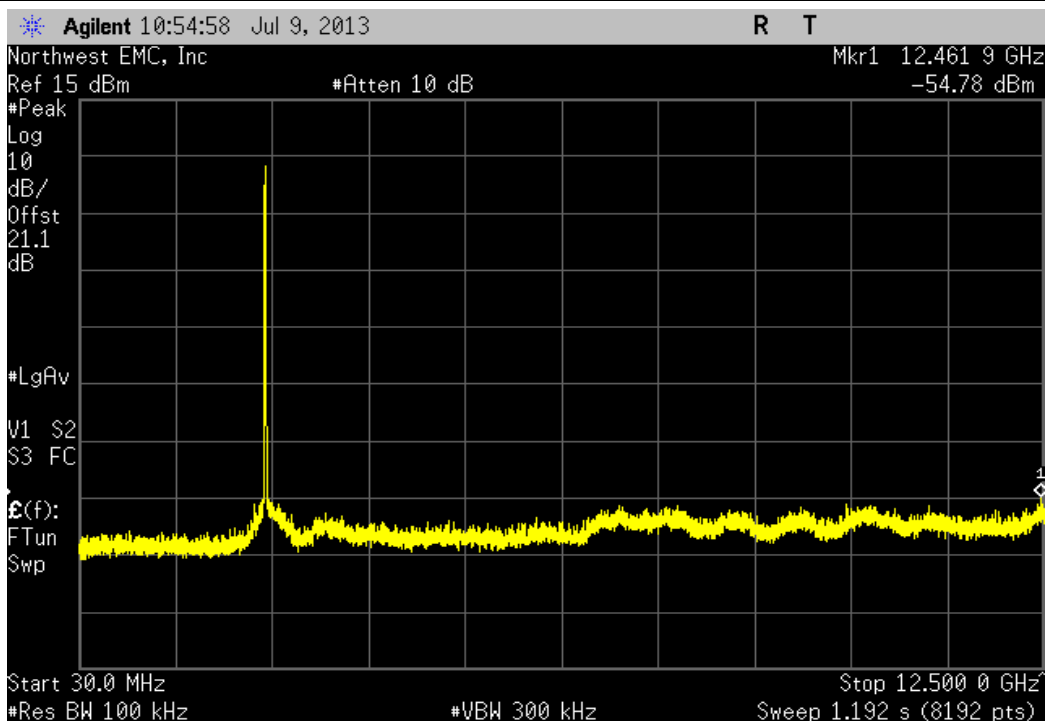
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -52.75 dBc | ≤ -20 dBc | Pass   |  |



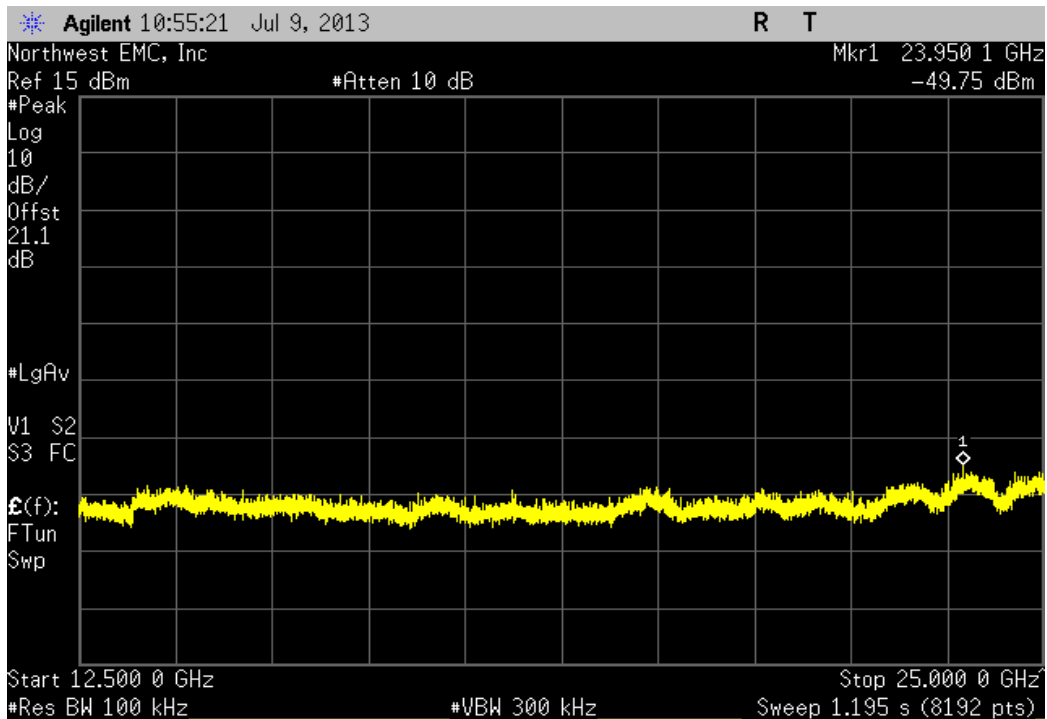
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



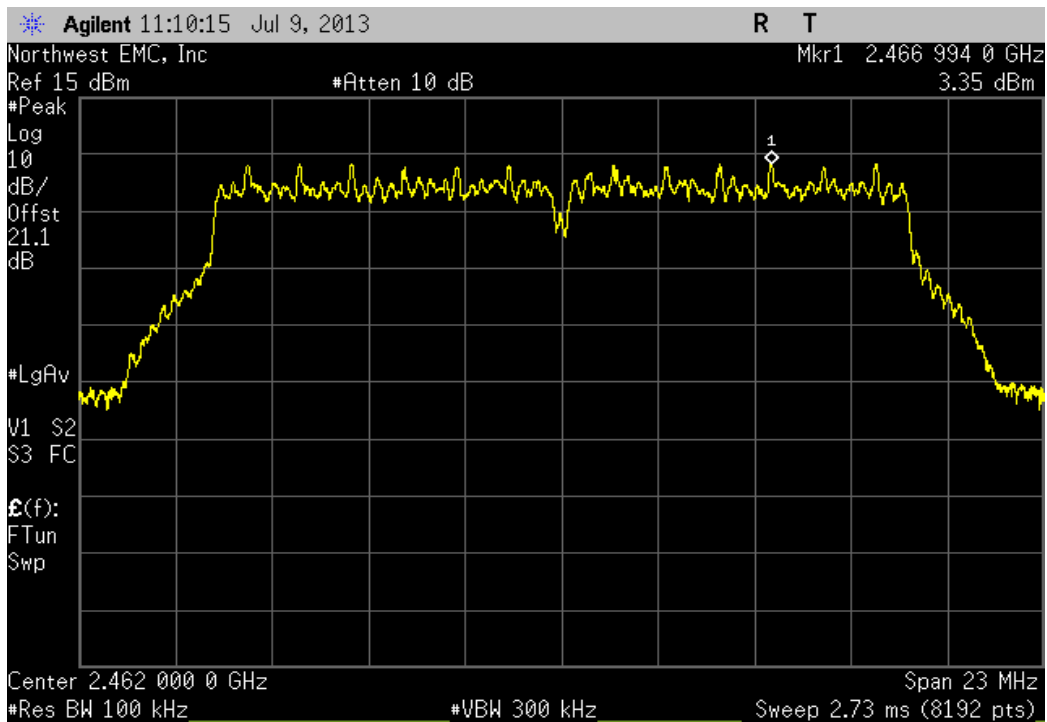
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  | -57.96 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                              |  | -52.93 dBc | ≤ -20 dBc | Pass   |

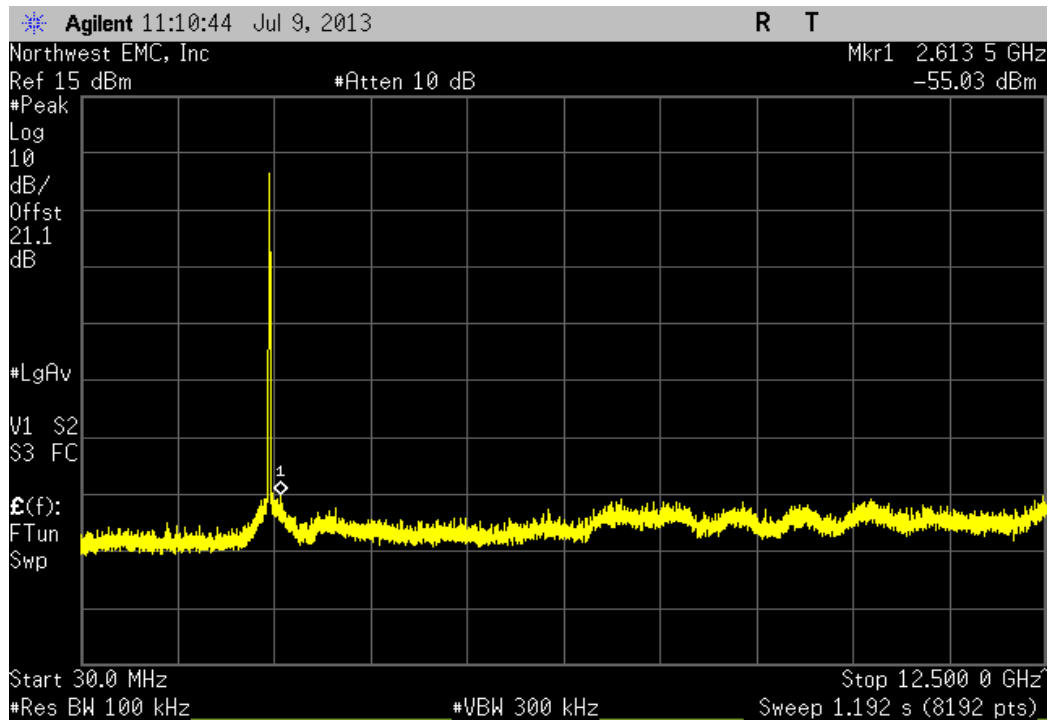


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz |  |       |       |        |
|----------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                  |  | Value | Limit | Result |
| Fundamental                                                                      |  | N/A   | N/A   | N/A    |

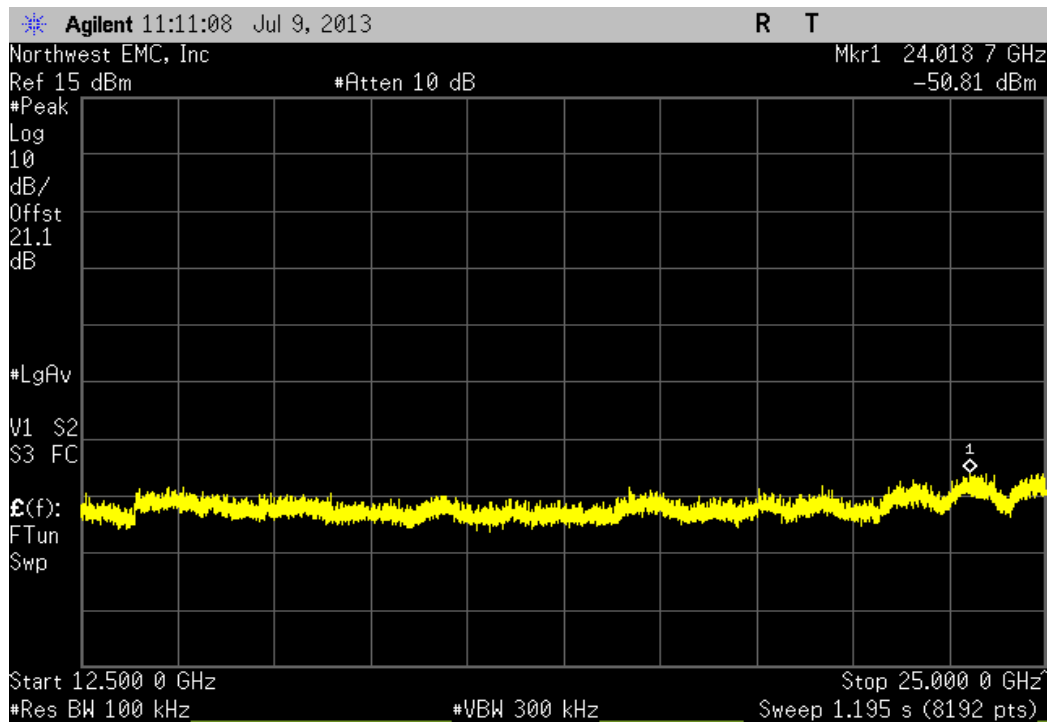




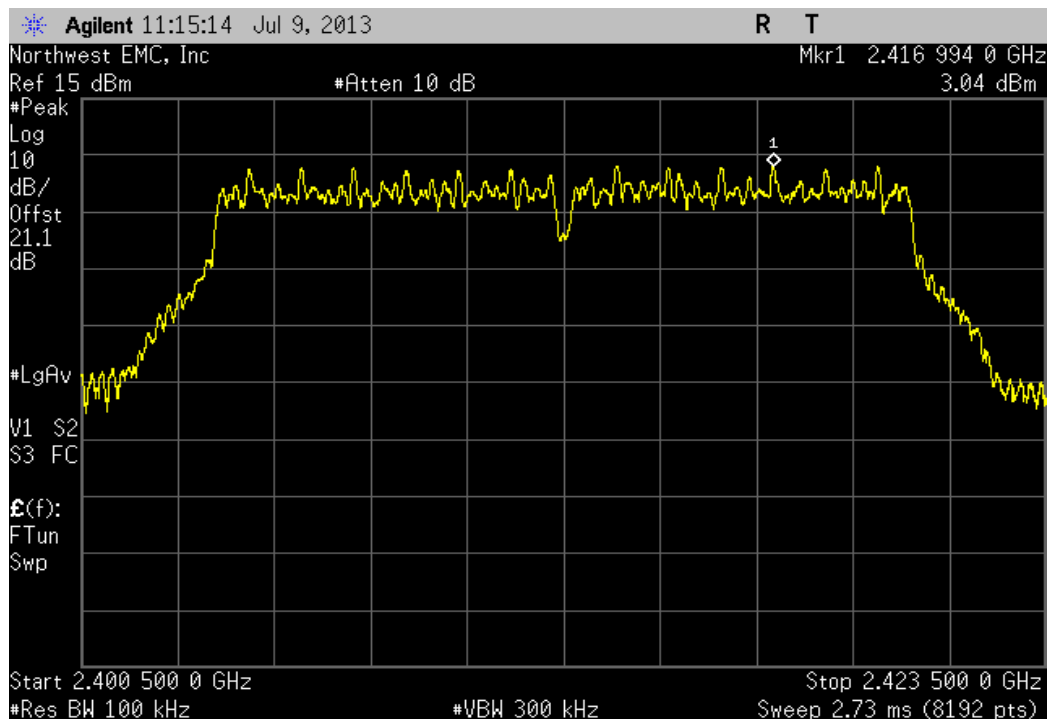
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                | -58.38 dBc | ≤ -20 dBc | Pass   |  |



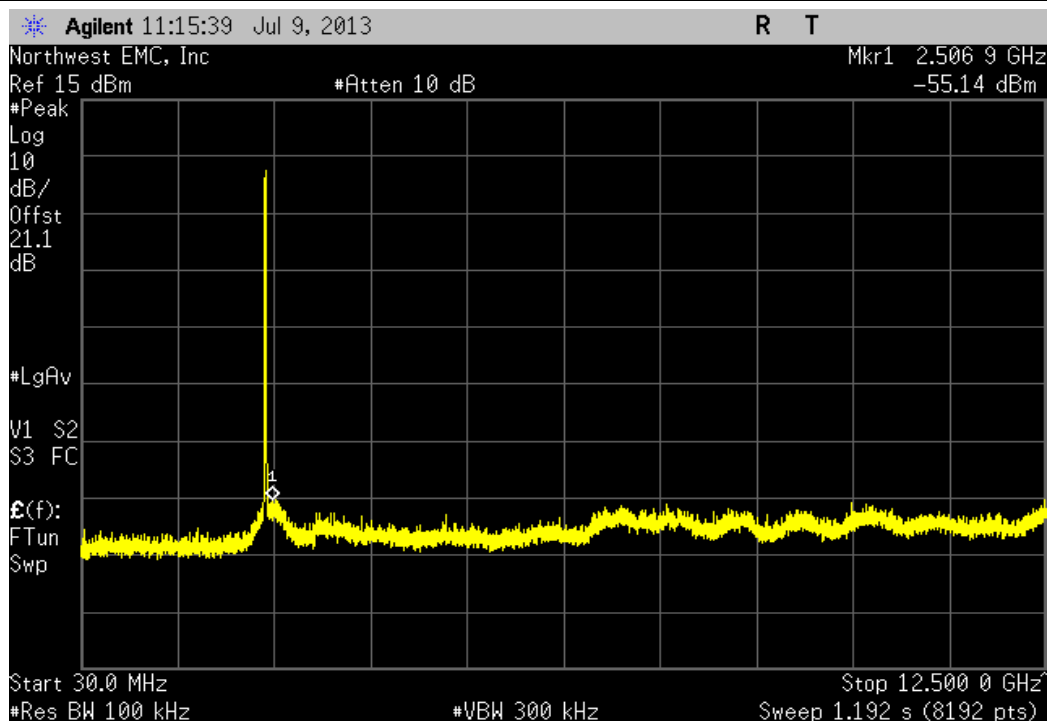
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz |            |           |        |  |
|----------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                  | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                | -54.16 dBc | ≤ -20 dBc | Pass   |  |



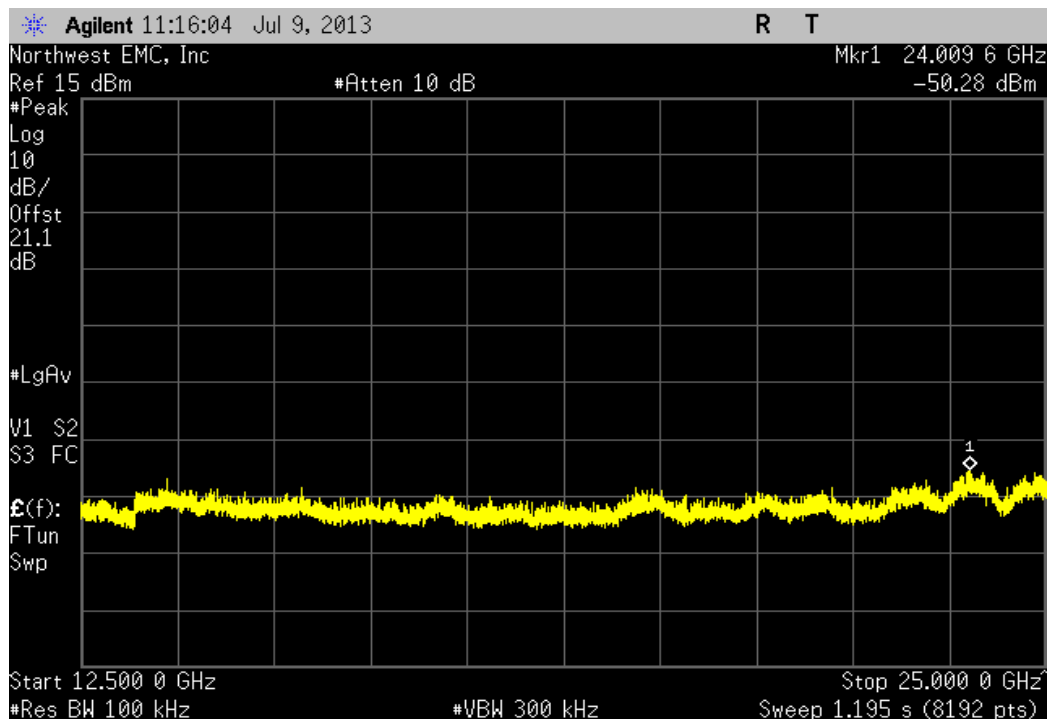
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz |  |  |  |       |       |        |
|--------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                |  |  |  | Value | Limit | Result |
| Fundamental                                                                    |  |  |  | N/A   | N/A   | N/A    |



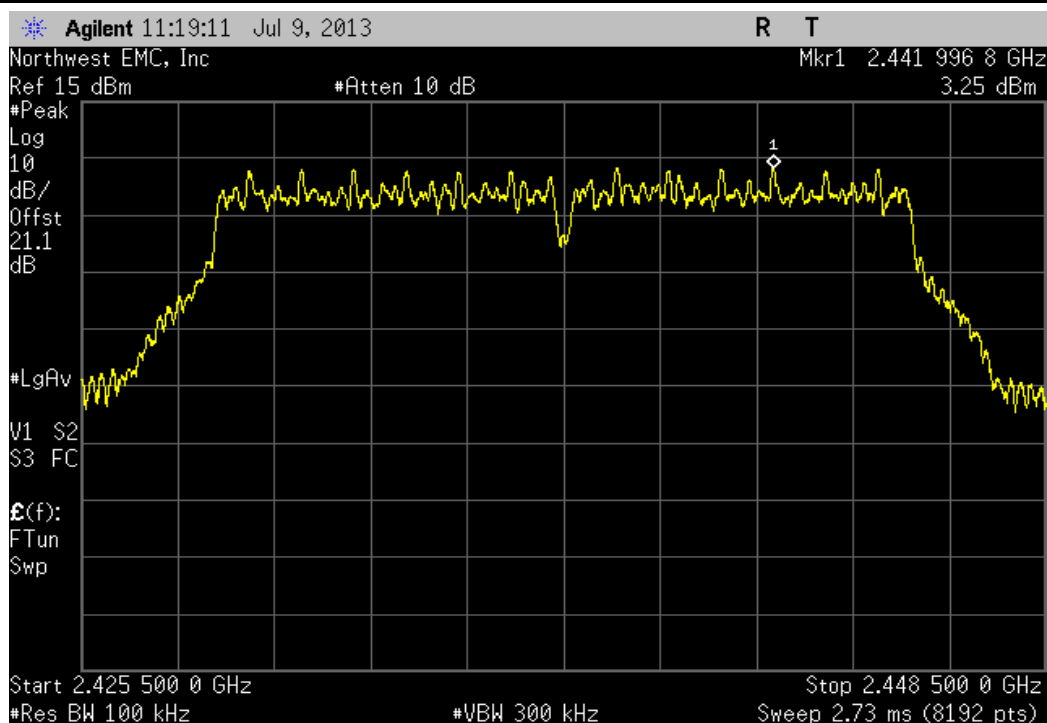
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz |  |  |  |            |           |        |
|--------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  |  |  | -58.18 dBc | ≤ -20 dBc | Pass   |



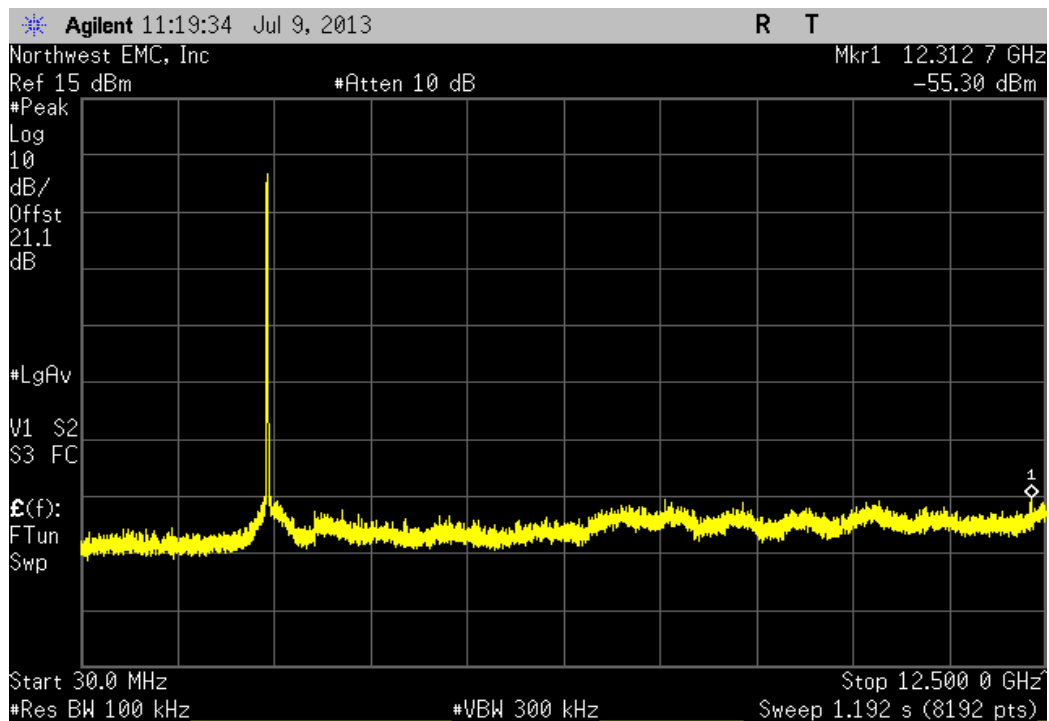
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -53.32 dBc | ≤ -20 dBc | Pass   |  |



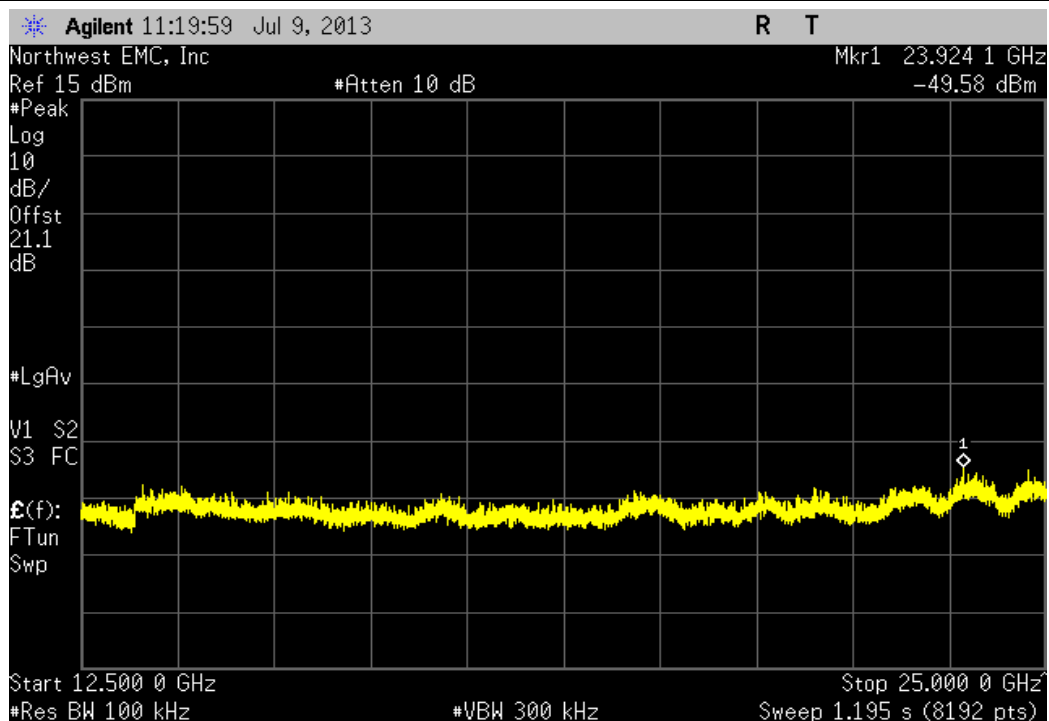
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz |       |       |        |  |
|--------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                                | Value | Limit | Result |  |
| Fundamental                                                                    | N/A   | N/A   | N/A    |  |



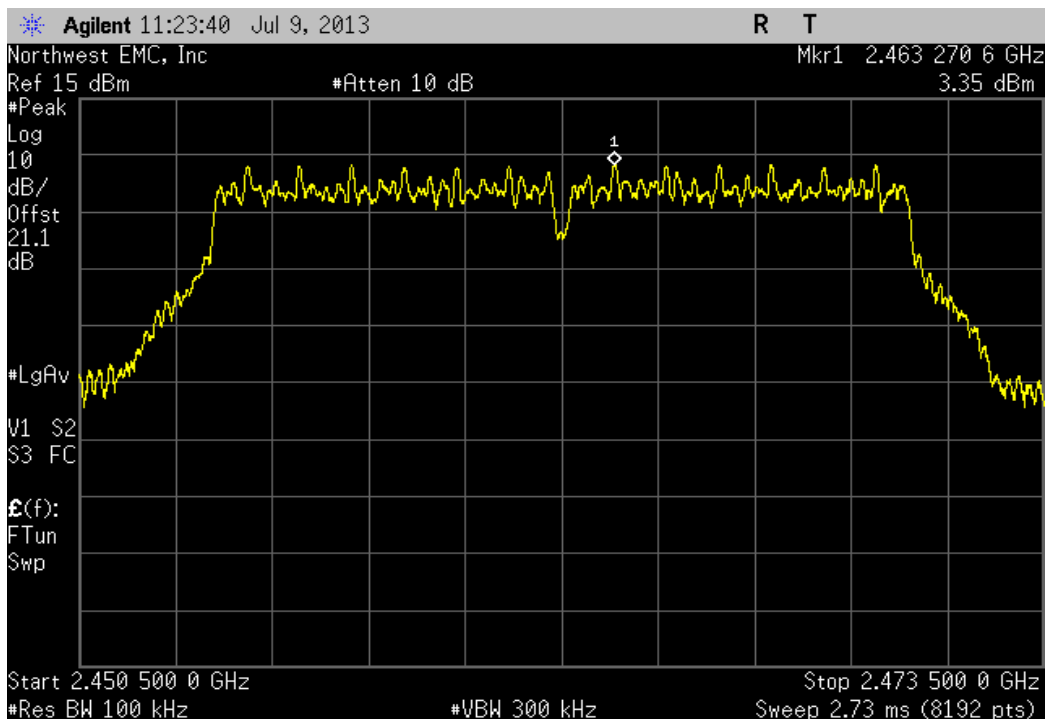
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -58.55 dBc | ≤ -20 dBc | Pass   |  |



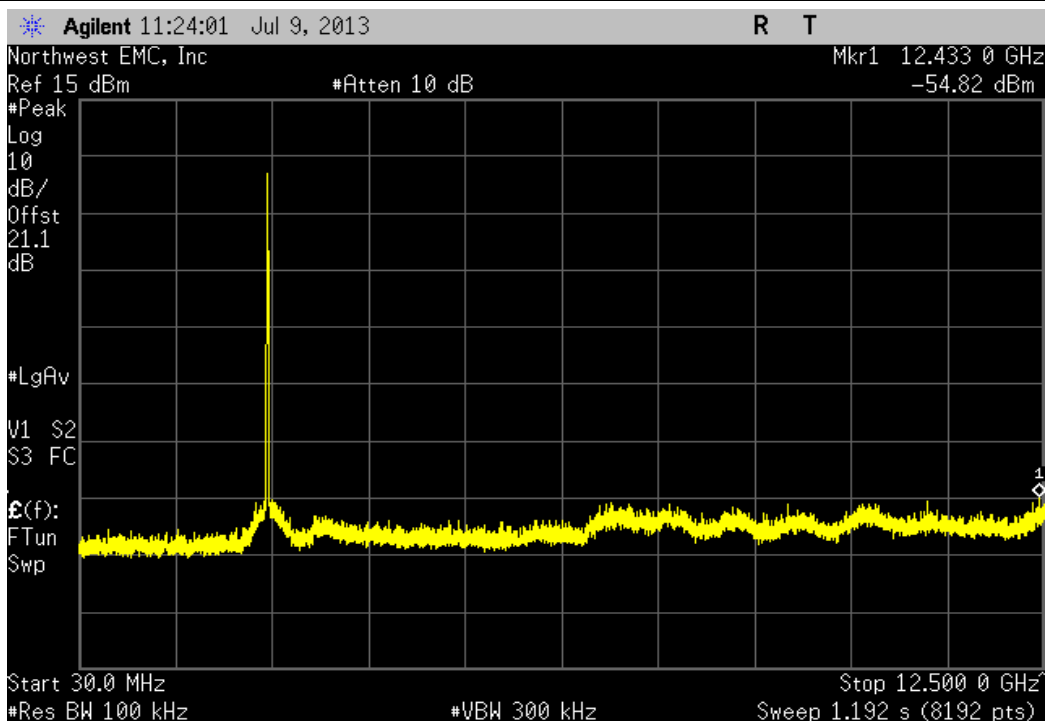
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -52.83 dBc | ≤ -20 dBc | Pass   |  |



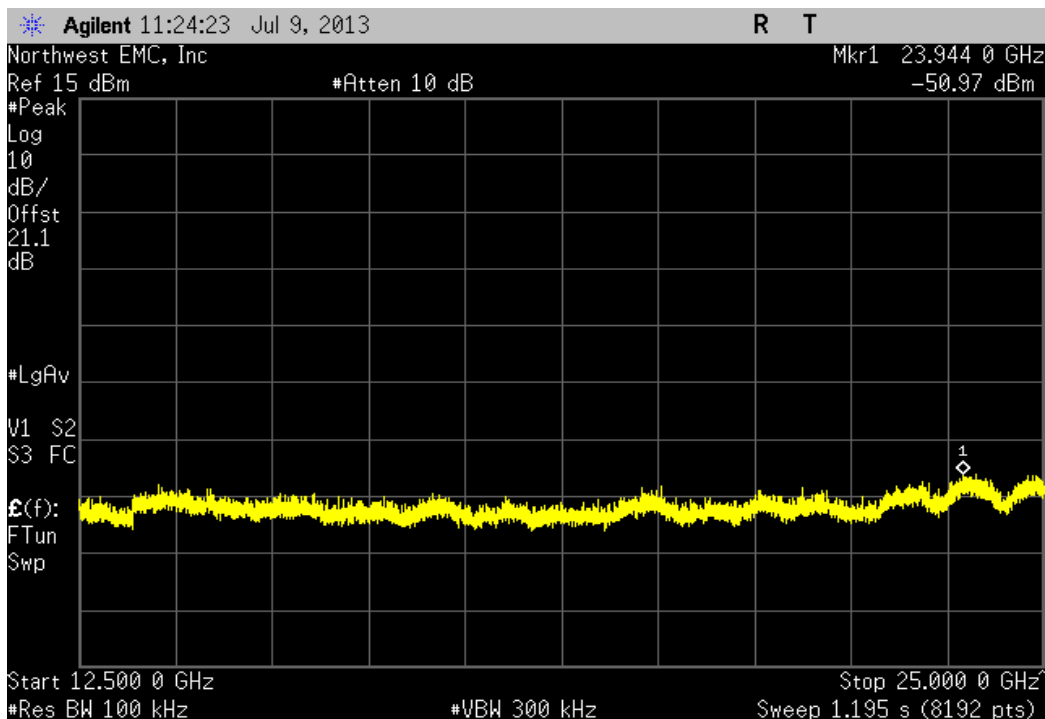
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz |  |  |  |       |       |        |
|----------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                  |  |  |  | Value | Limit | Result |
| Fundamental                                                                      |  |  |  | N/A   | N/A   | N/A    |



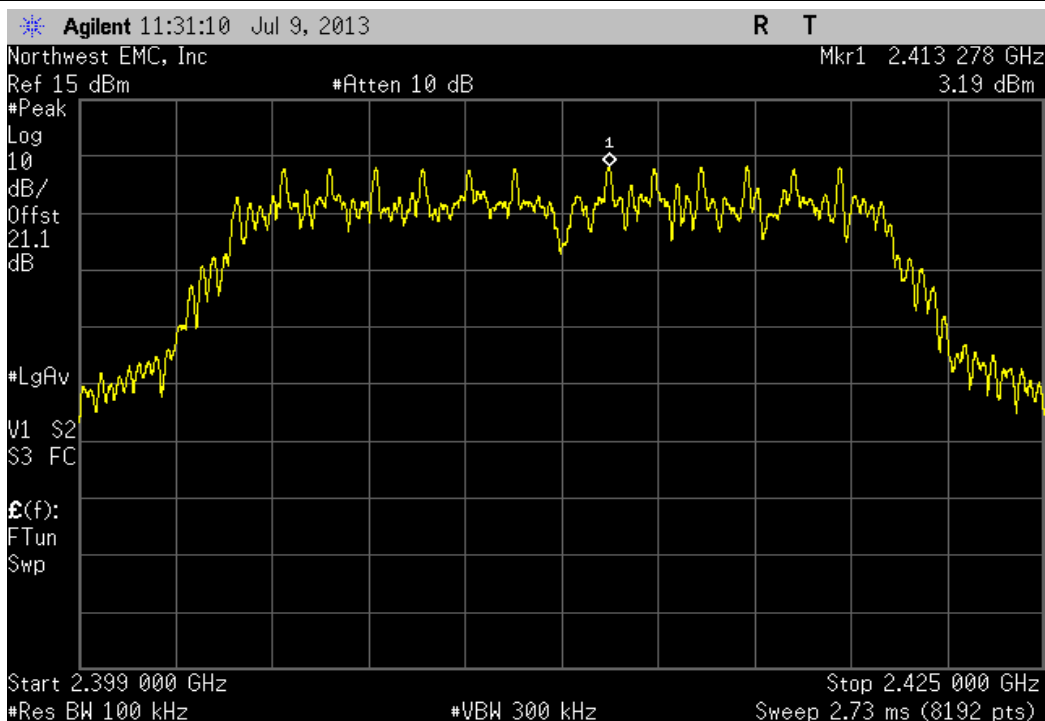
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz |  |  |  |            |           |        |
|----------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                  |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                |  |  |  | -58.17 dBc | ≤ -20 dBc | Pass   |



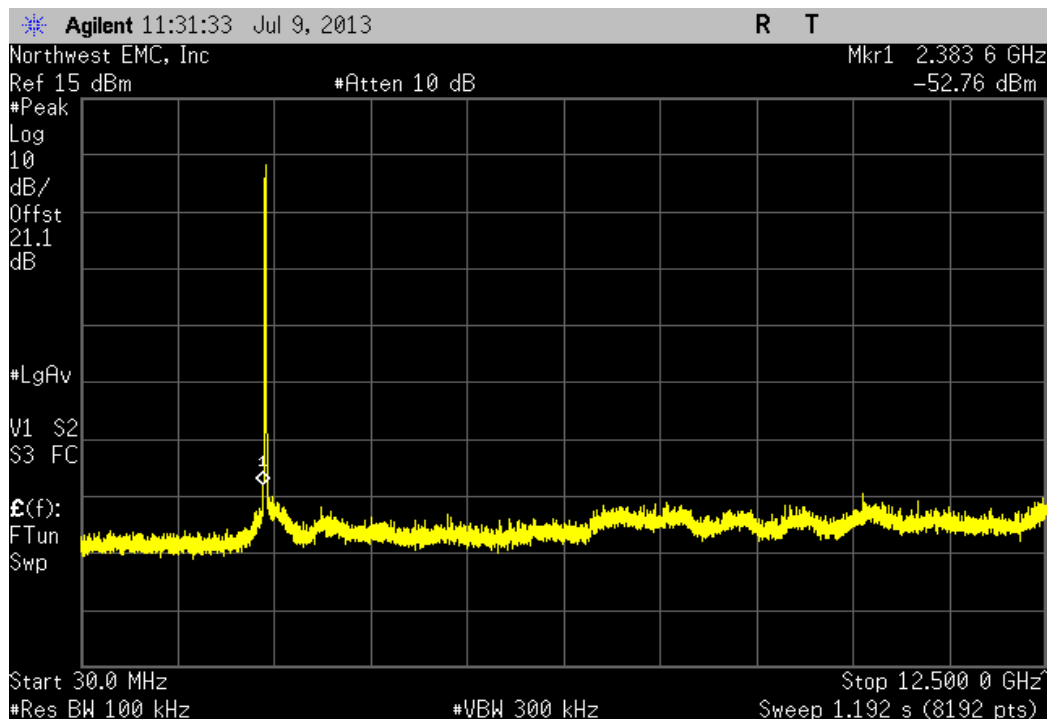
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz |  |            |           |        |
|----------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                  |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                |  | -54.32 dBc | ≤ -20 dBc | Pass   |



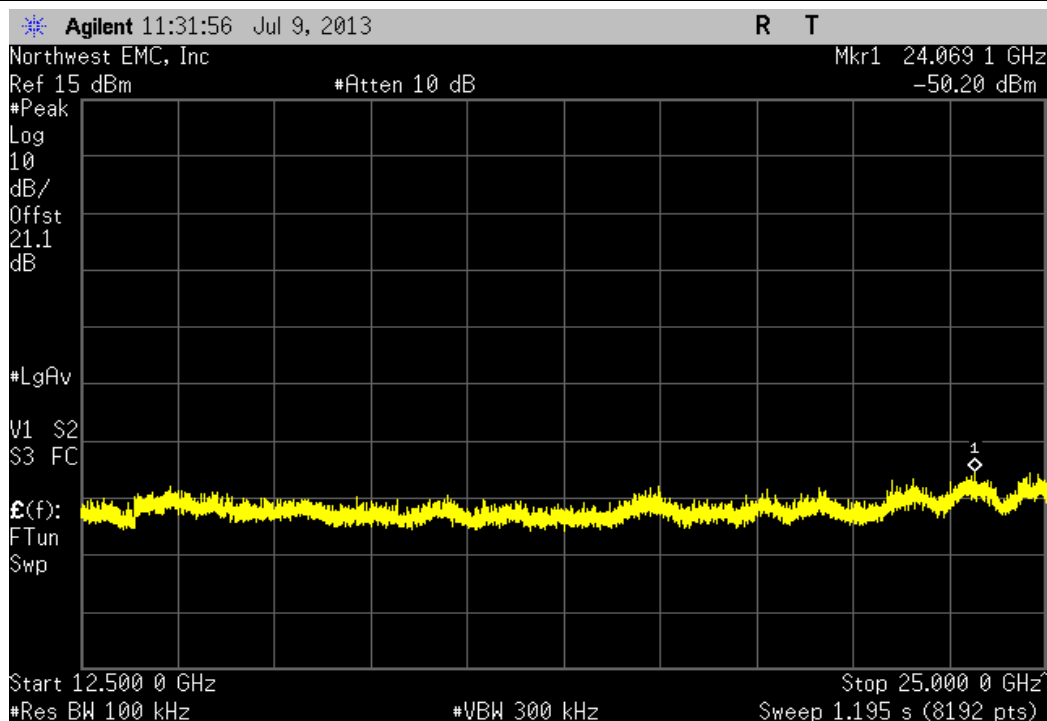
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz |  |       |       |        |
|-----------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                             |  | Value | Limit | Result |
| Fundamental                                                                 |  | N/A   | N/A   | N/A    |



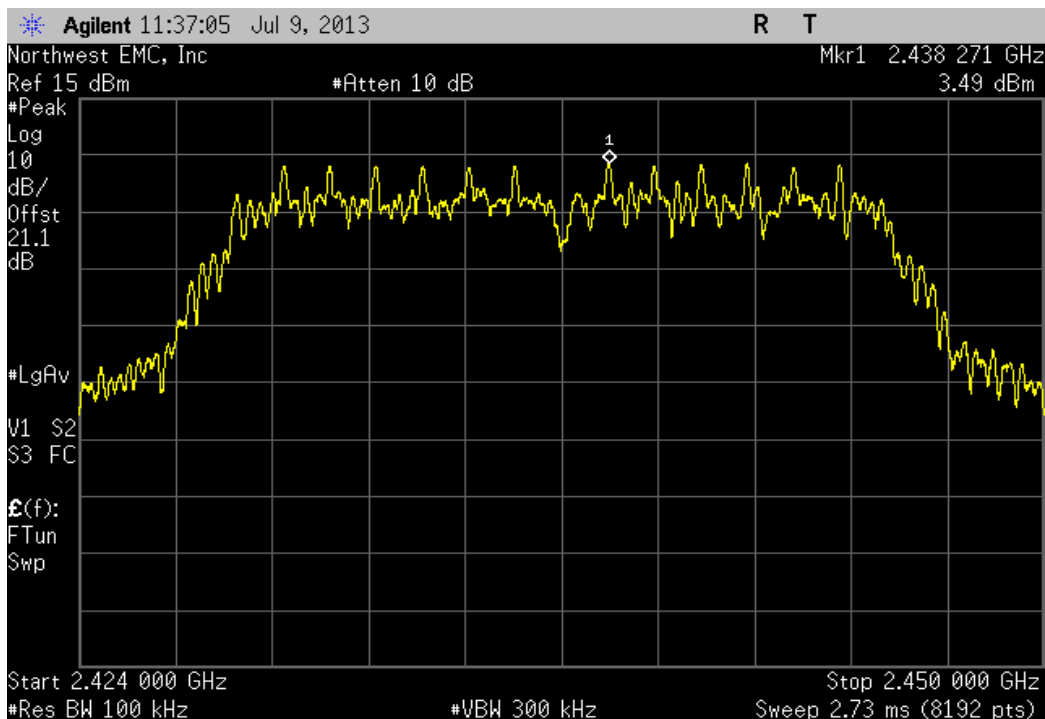
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                           | -55.96 dBc | ≤ -20 dBc | Pass   |  |



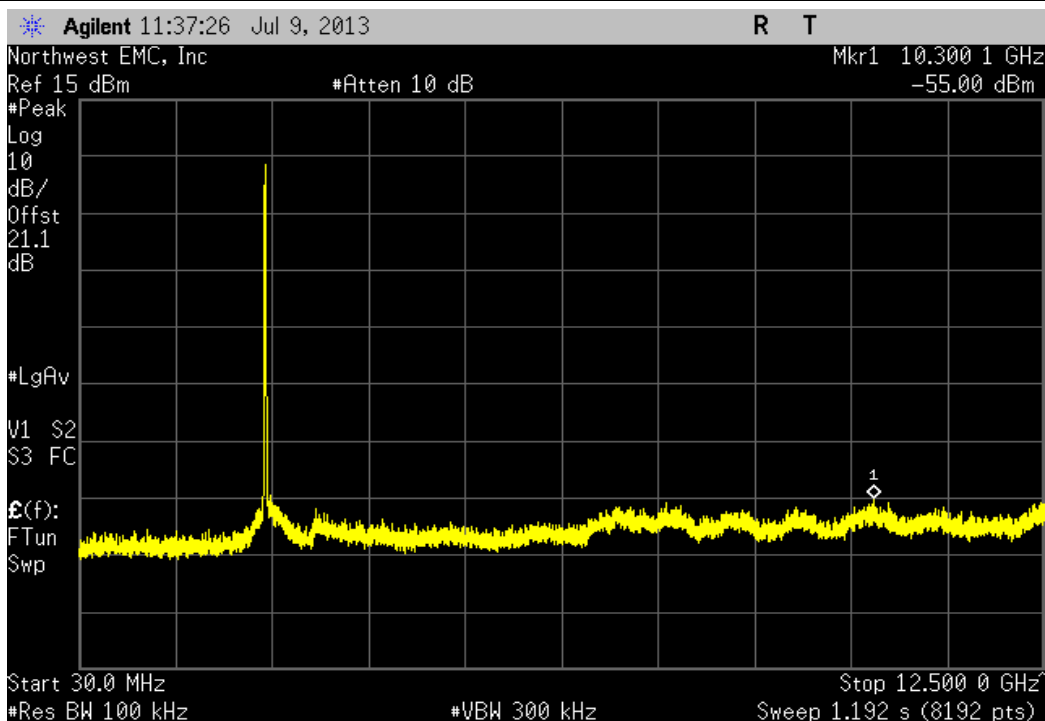
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz |           |           |        |  |
|-----------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                             | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                           | -53.4 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz |  |       |       |        |
|-----------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                             |  | Value | Limit | Result |
| Fundamental                                                                 |  | N/A   | N/A   | N/A    |

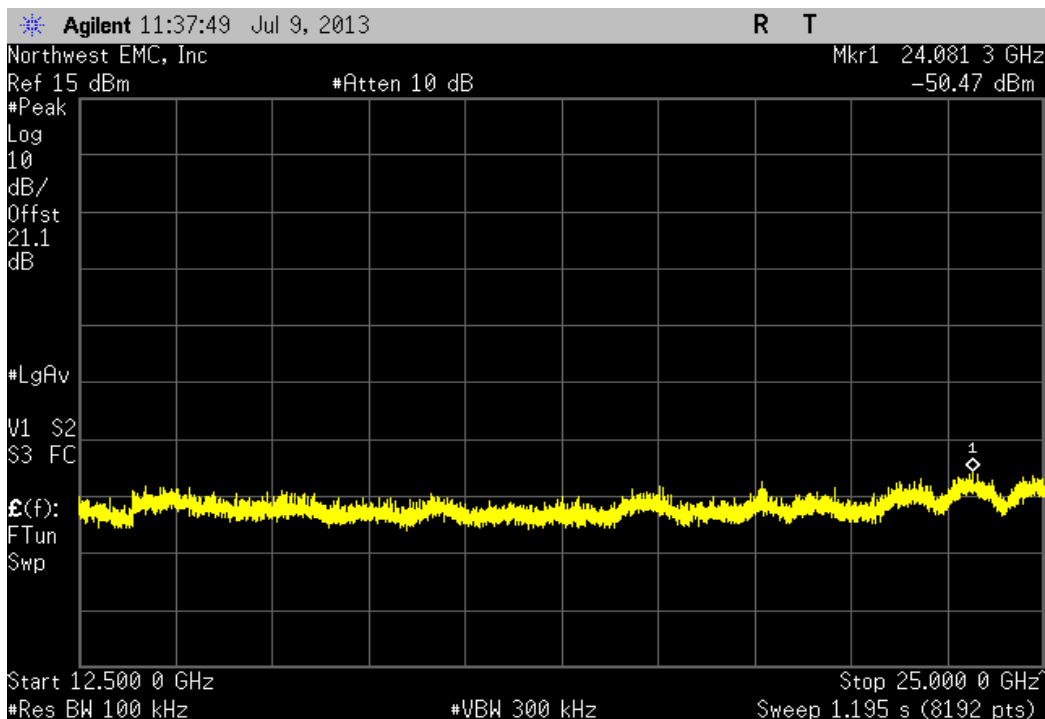


| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz |  |            |           |        |
|-----------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                             |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                           |  | -58.49 dBc | ≤ -20 dBc | Pass   |

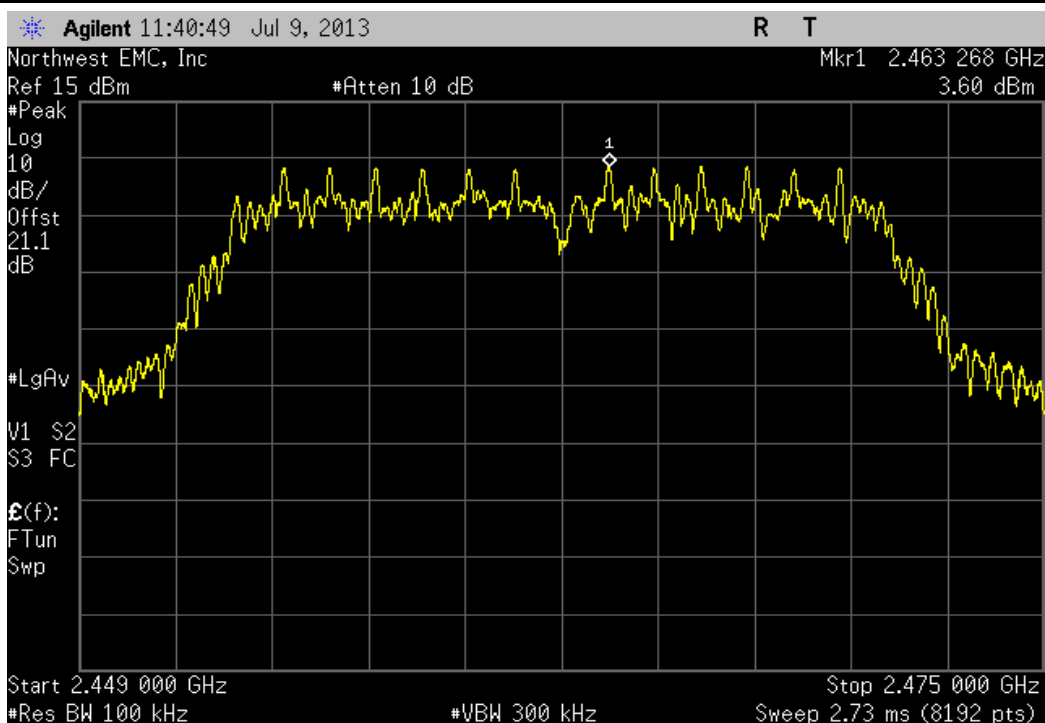




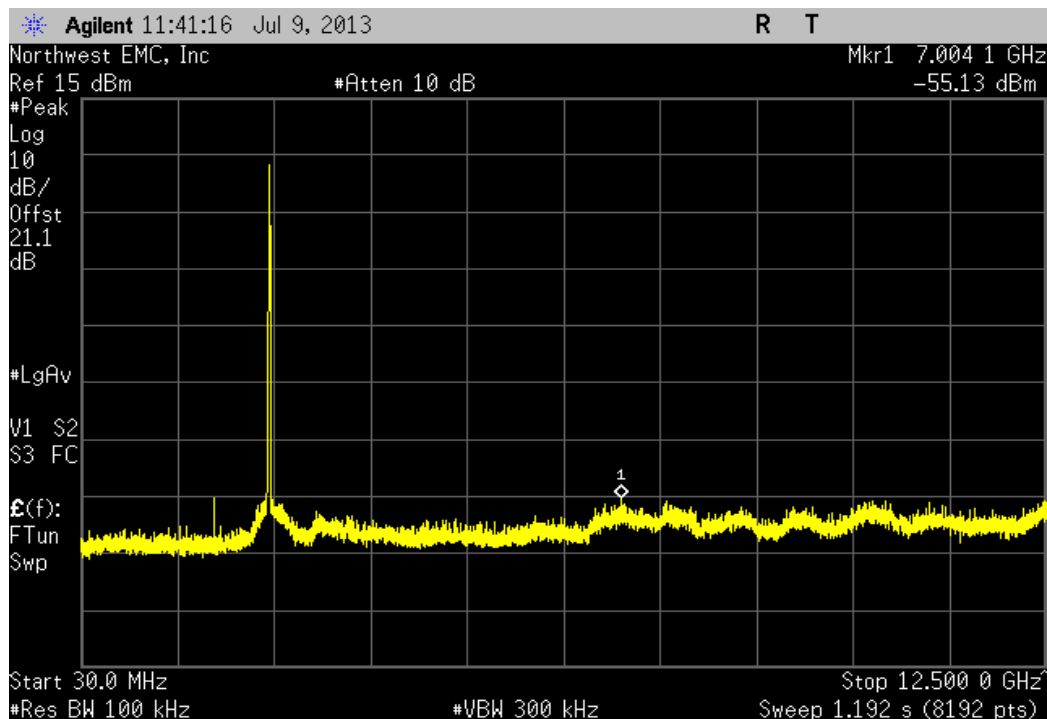
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                           | -53.96 dBc | ≤ -20 dBc | Pass   |  |



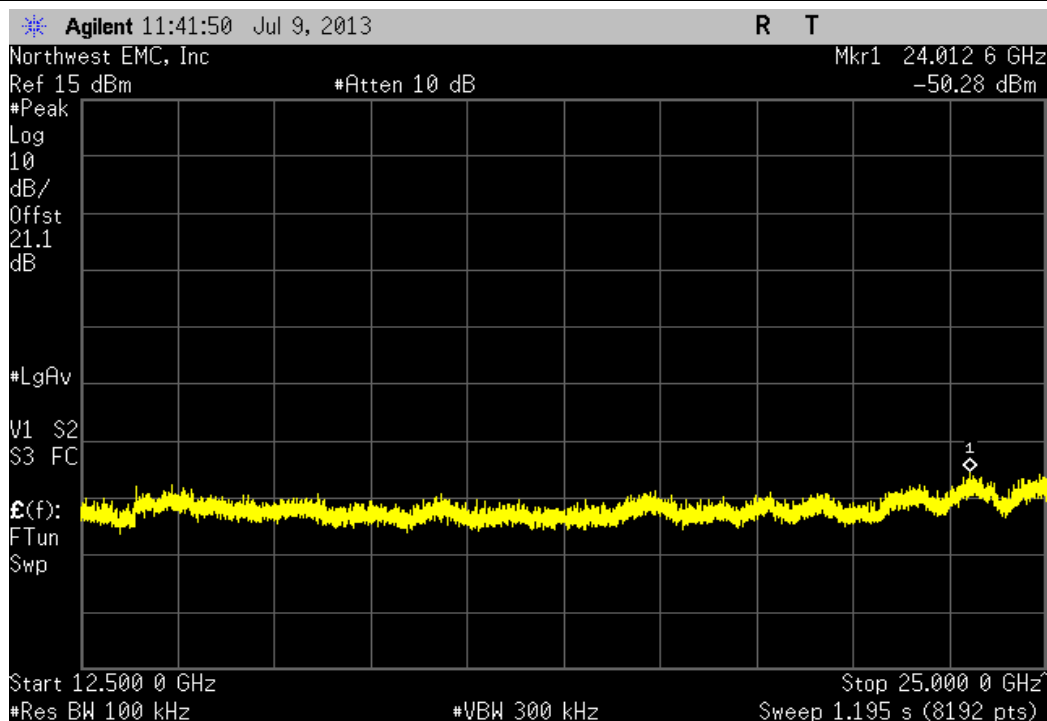
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz |       |       |        |  |
|-------------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                               | Value | Limit | Result |  |
| Fundamental                                                                   | N/A   | N/A   | N/A    |  |



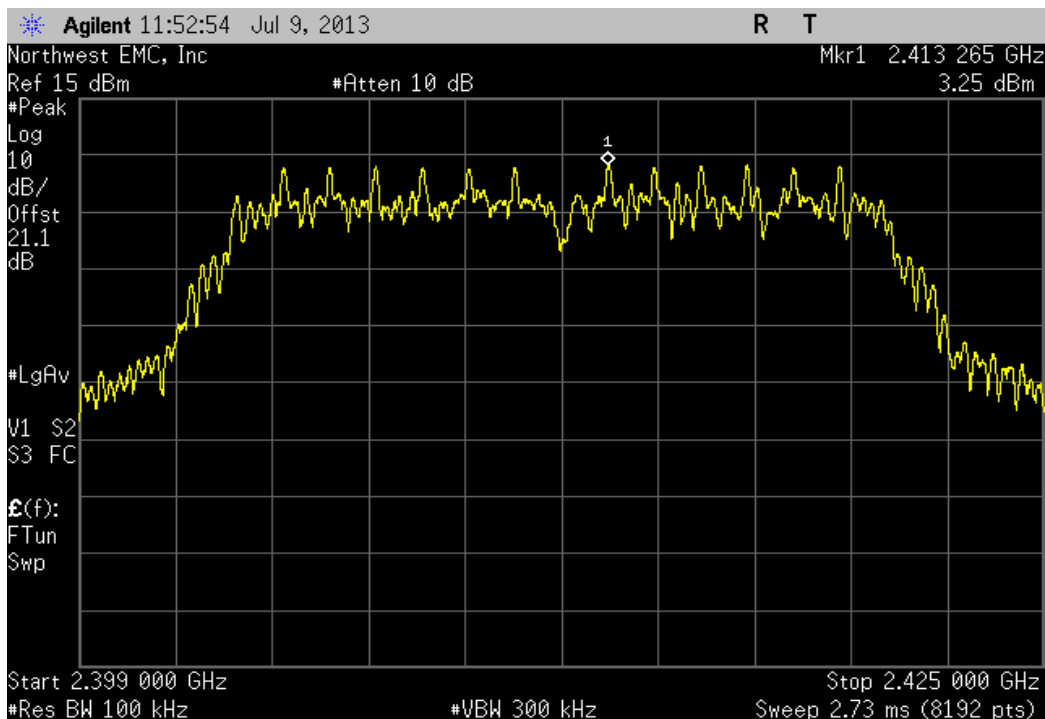
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -58.73 dBc | ≤ -20 dBc | Pass   |  |



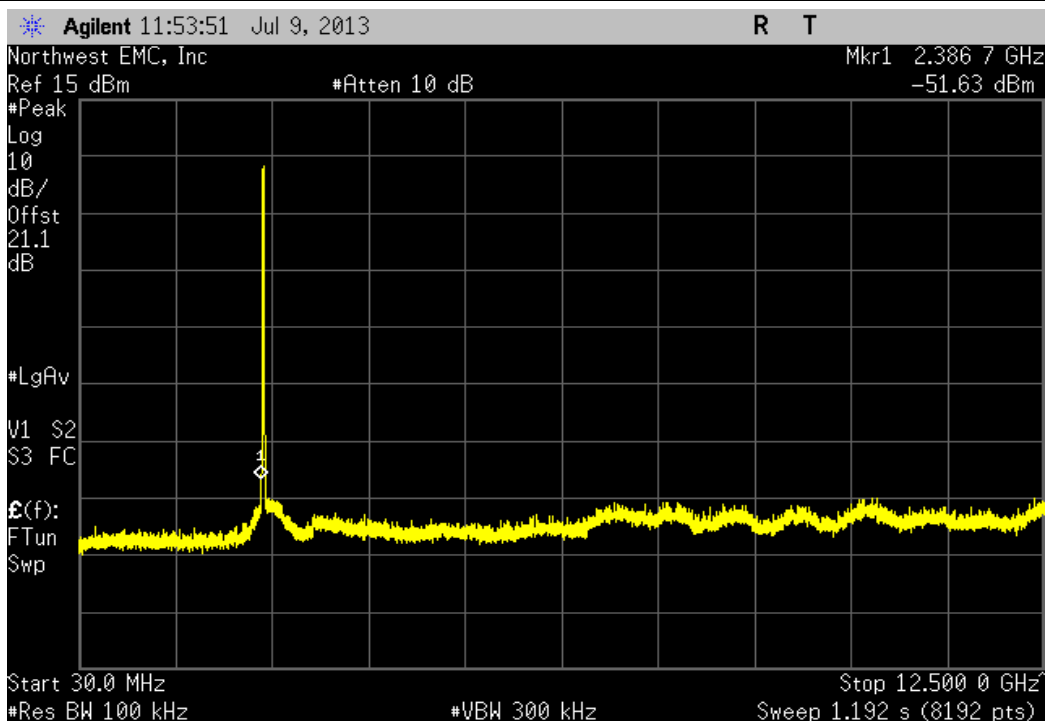
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -53.88 dBc | ≤ -20 dBc | Pass   |  |



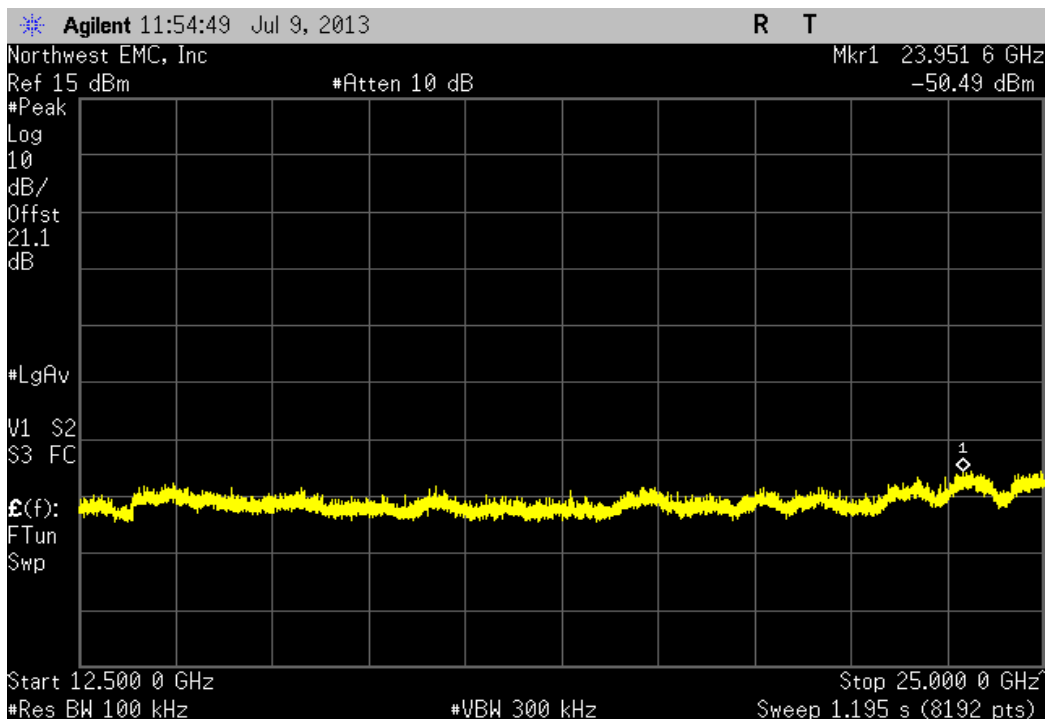
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz |  |  |  |       |       |        |
|-----------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                             |  |  |  | Value | Limit | Result |
| Fundamental                                                                 |  |  |  | N/A   | N/A   | N/A    |



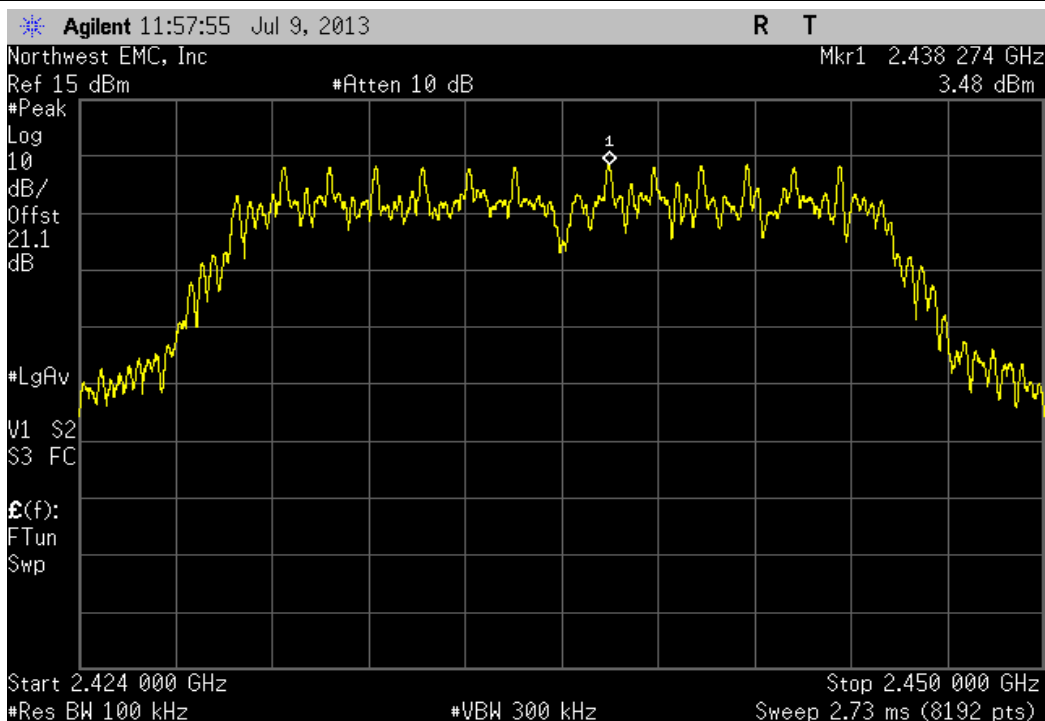
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz |  |  |  |            |           |        |
|-----------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                             |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                           |  |  |  | -54.88 dBc | ≤ -20 dBc | Pass   |



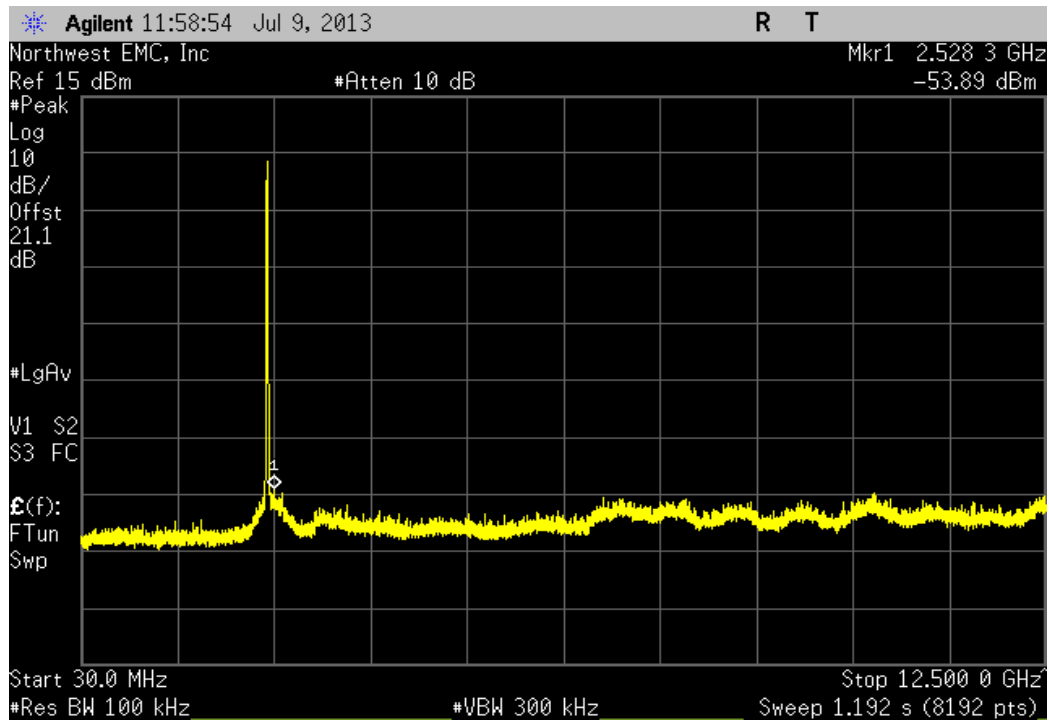
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                           | -53.74 dBc | ≤ -20 dBc | Pass   |  |



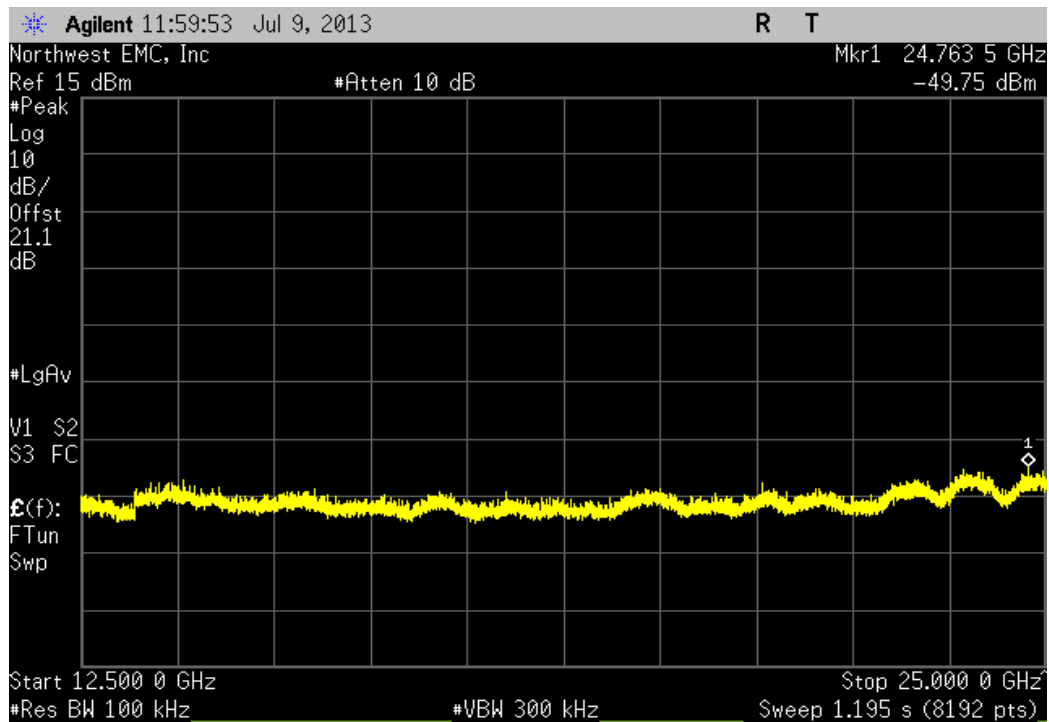
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz |       |       |        |  |
|-----------------------------------------------------------------------------|-------|-------|--------|--|
| Frequency Range                                                             | Value | Limit | Result |  |
| Fundamental                                                                 | N/A   | N/A   | N/A    |  |



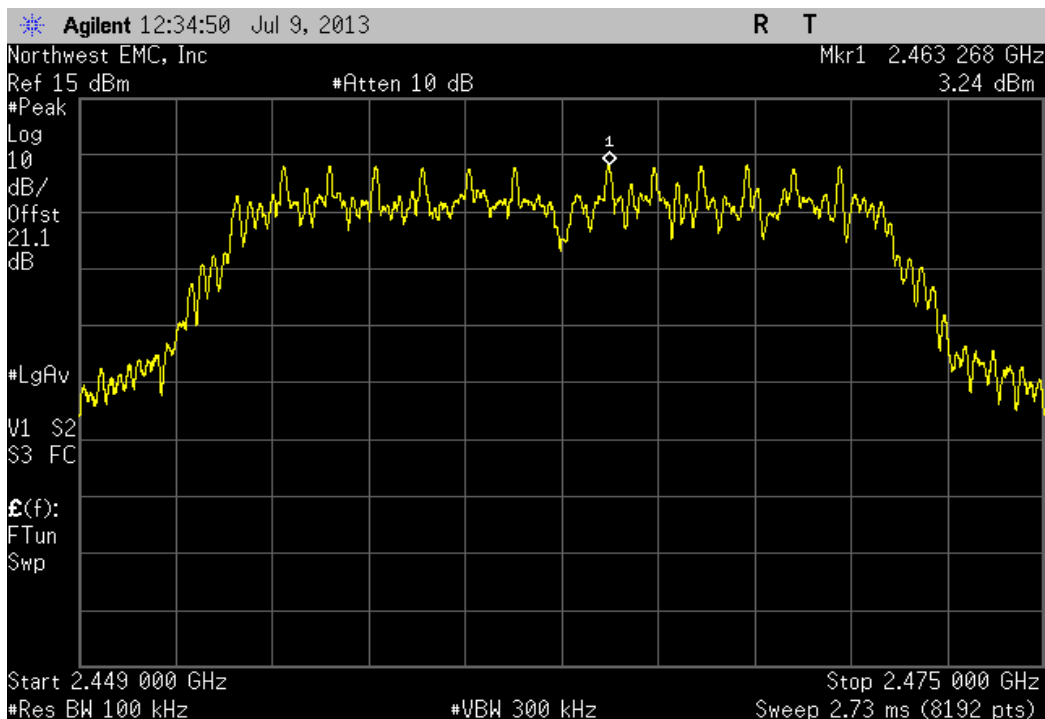
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                           | -57.37 dBc | ≤ -20 dBc | Pass   |  |



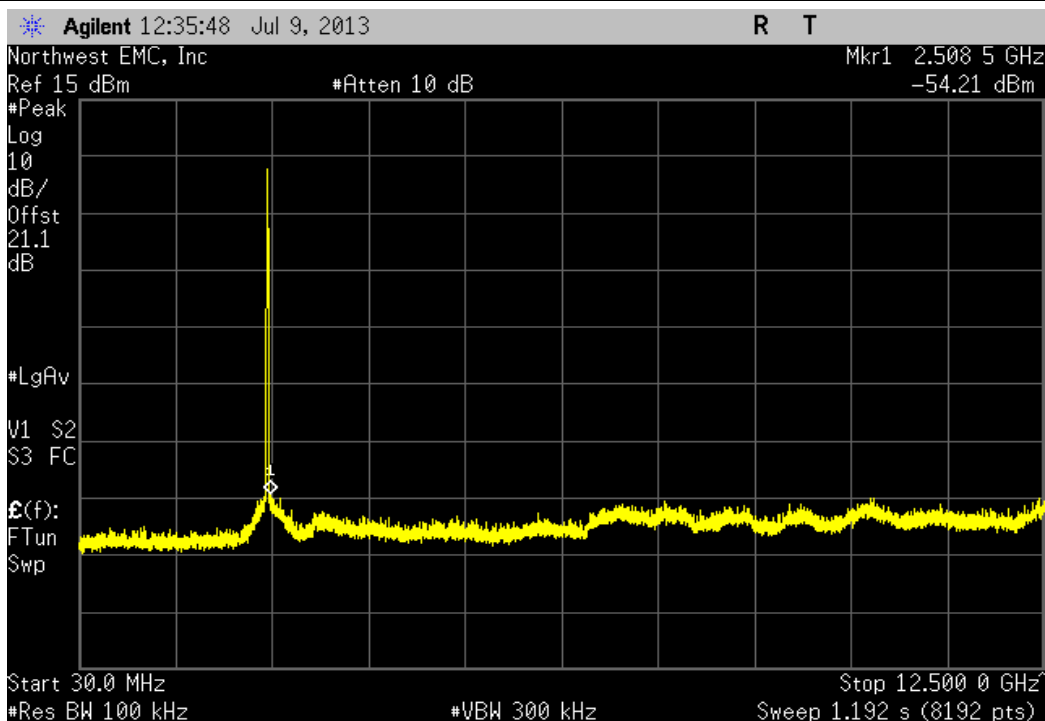
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz |            |           |        |  |
|-----------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                             | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                           | -53.23 dBc | ≤ -20 dBc | Pass   |  |



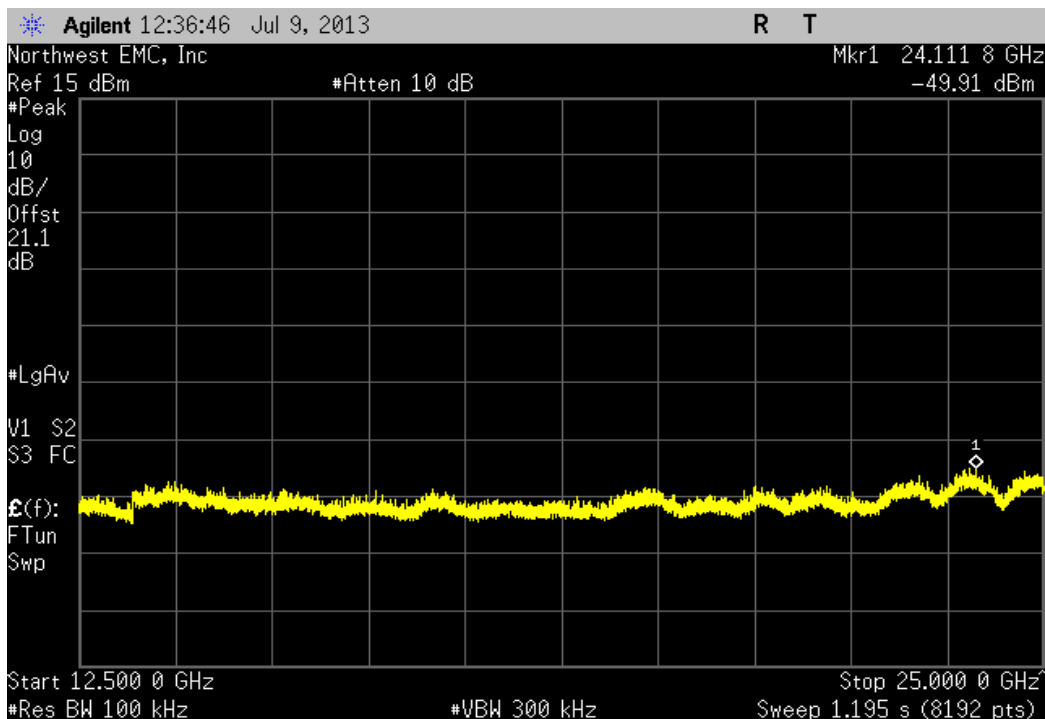
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz |             |  |  |       |       |        |
|-------------------------------------------------------------------------------|-------------|--|--|-------|-------|--------|
| Frequency Range                                                               |             |  |  | Value | Limit | Result |
|                                                                               | Fundamental |  |  | N/A   | N/A   | N/A    |



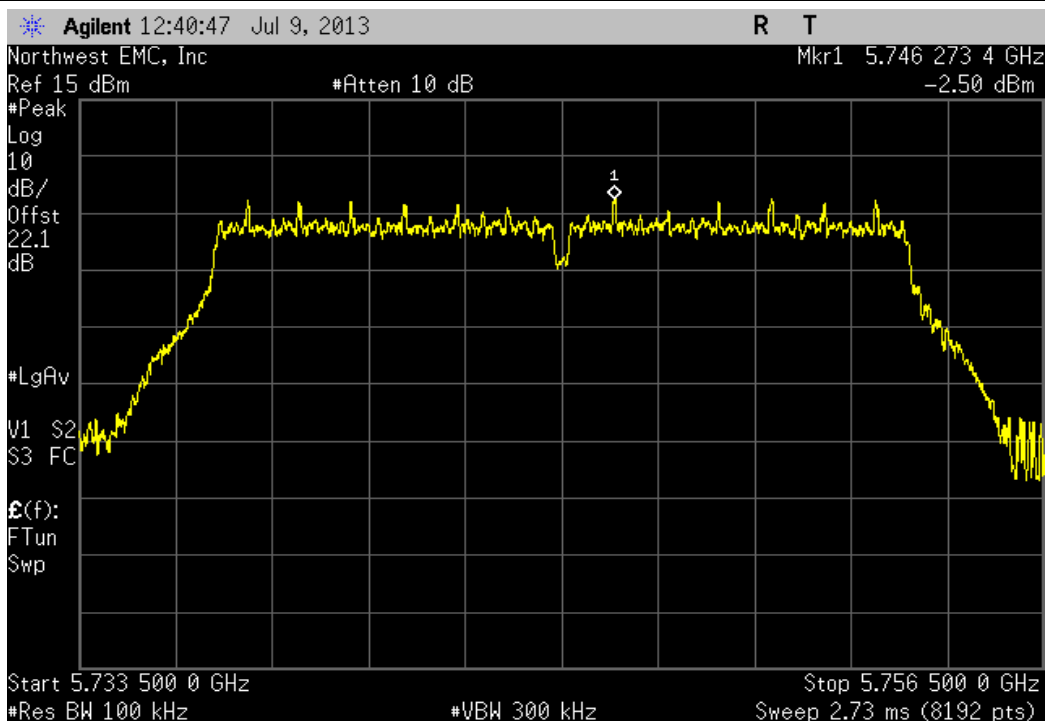
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz |                   |  |  |            |           |        |
|-------------------------------------------------------------------------------|-------------------|--|--|------------|-----------|--------|
| Frequency Range                                                               |                   |  |  | Value      | Limit     | Result |
|                                                                               | 30 MHz - 12.5 GHz |  |  | -57.45 dBc | ≤ -20 dBc | Pass   |



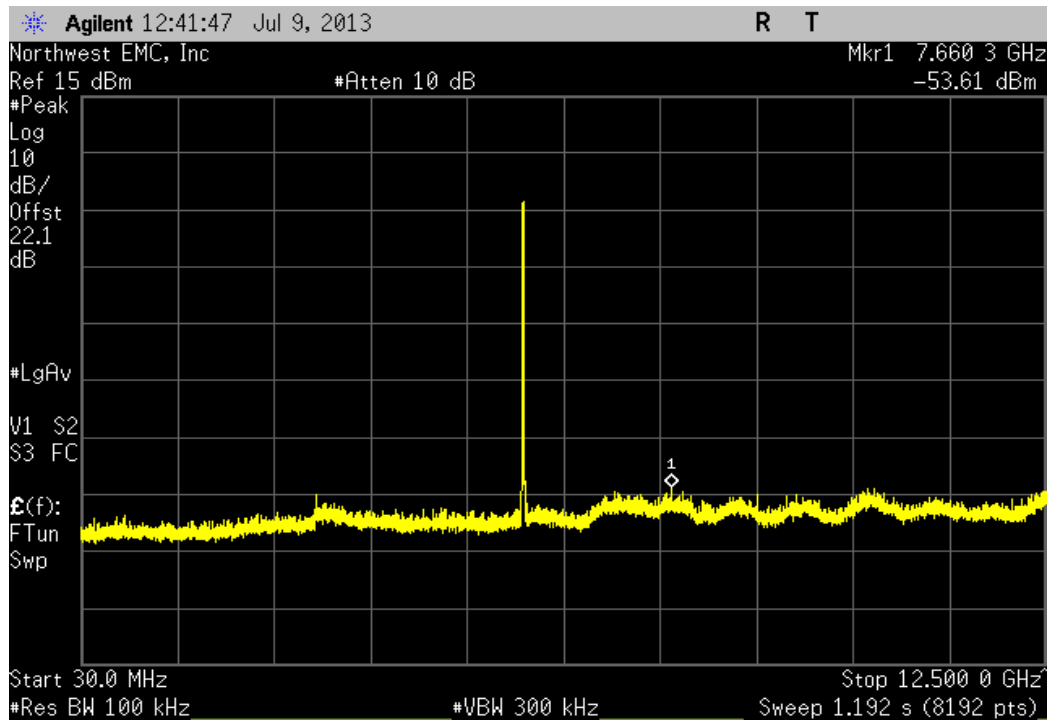
| 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -53.15 dBc | ≤ -20 dBc | Pass   |



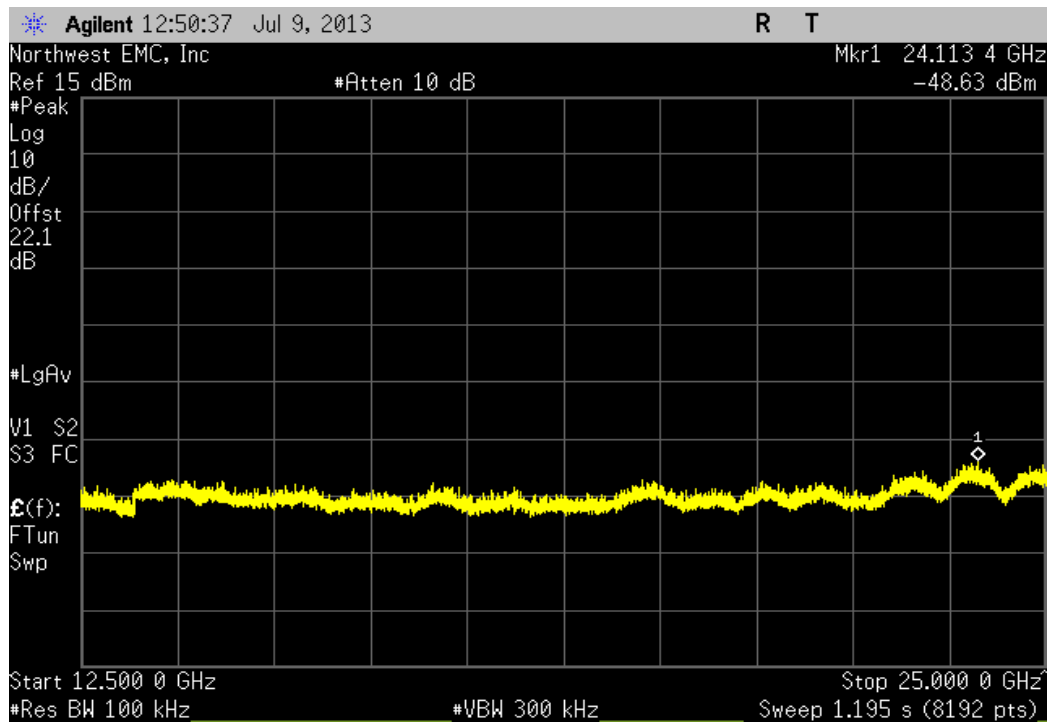
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -51.11 dBc | ≤ -20 dBc | Pass   |  |

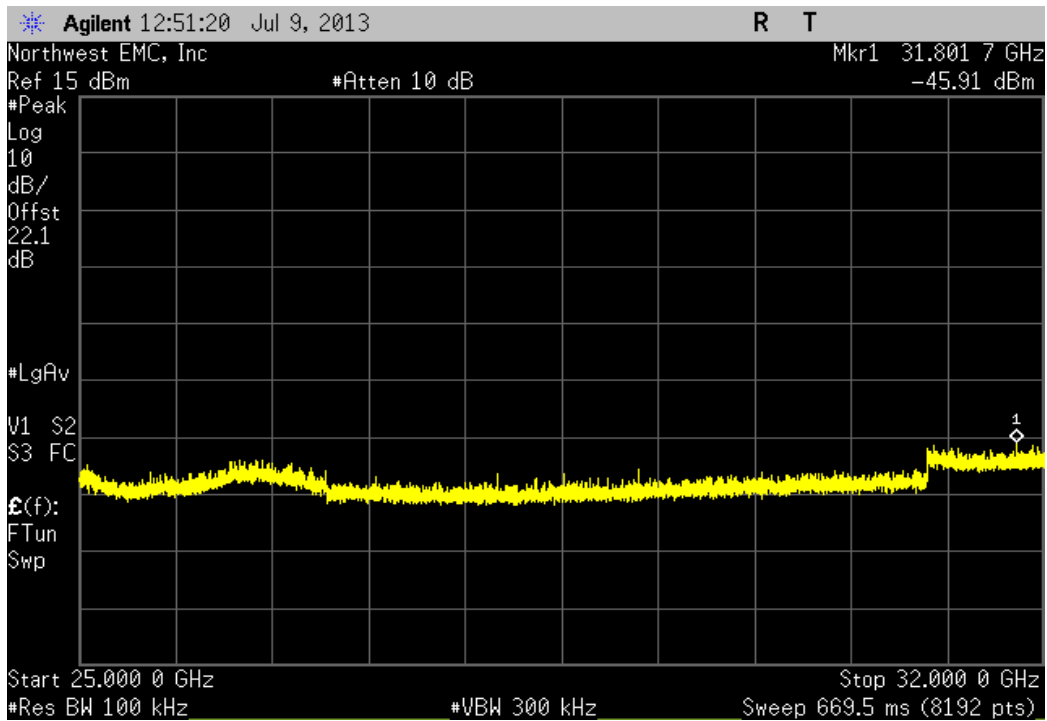


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -46.13 dBc | ≤ -20 dBc | Pass   |  |

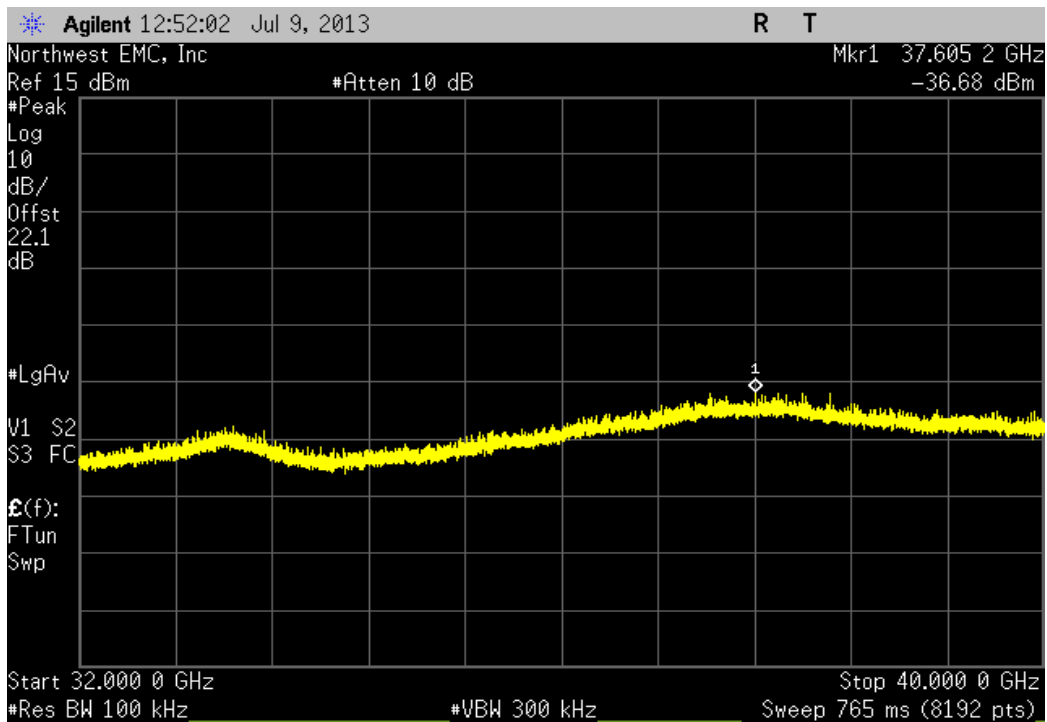




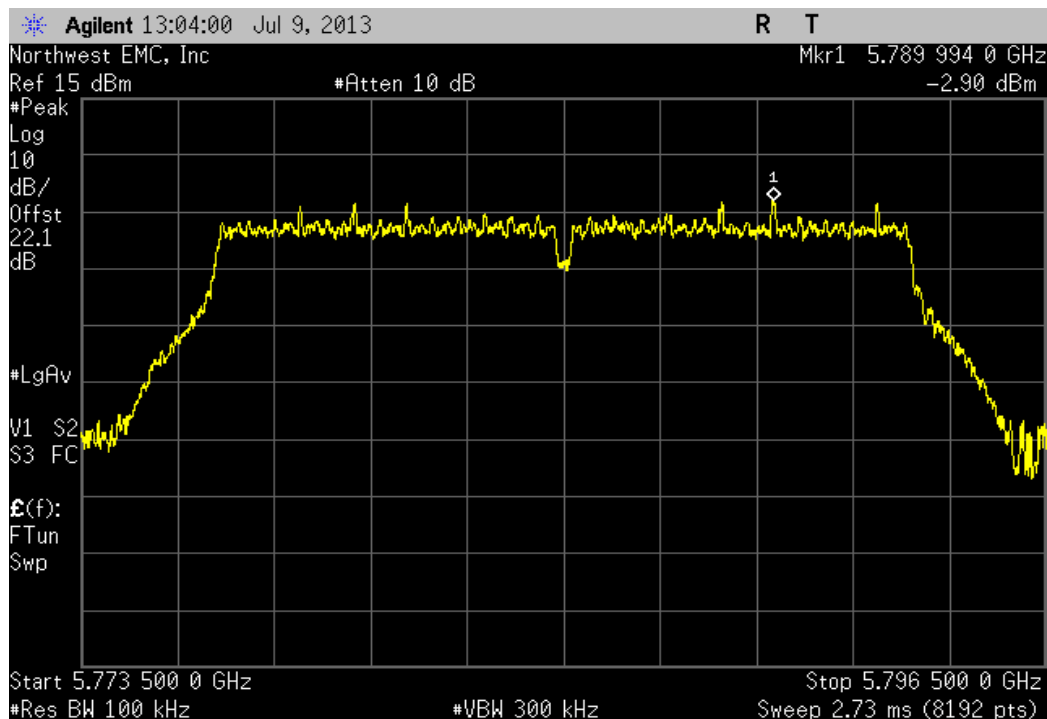
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                               |  | -43.41 dBc | ≤ -20 dBc | Pass   |



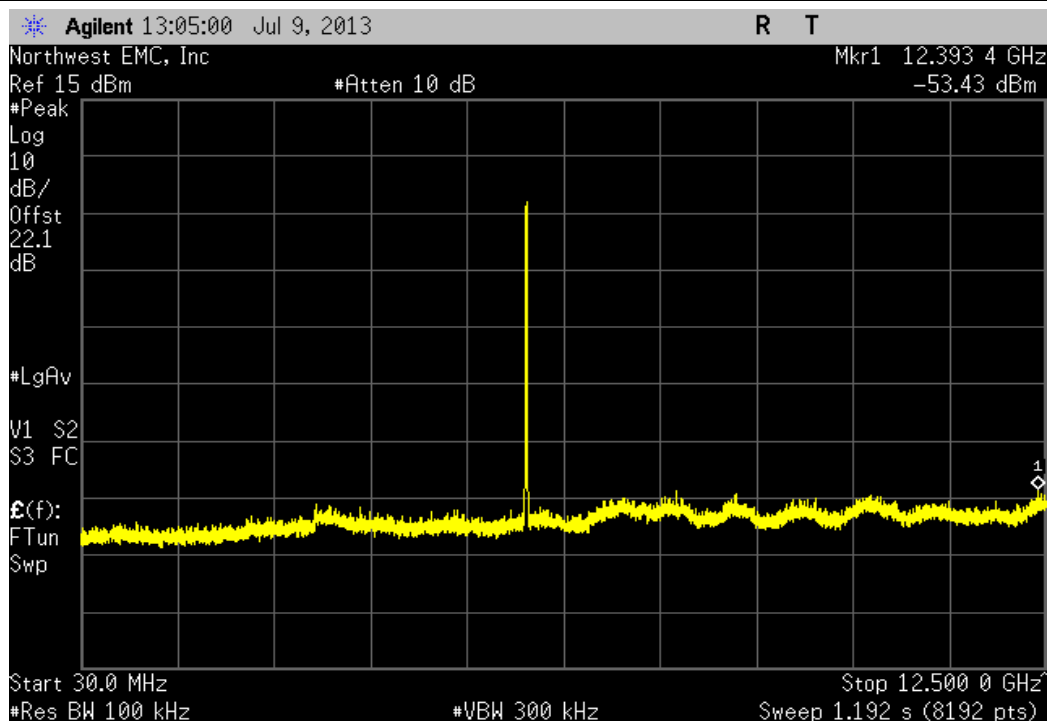
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                               |  | -34.18 dBc | ≤ -20 dBc | Pass   |



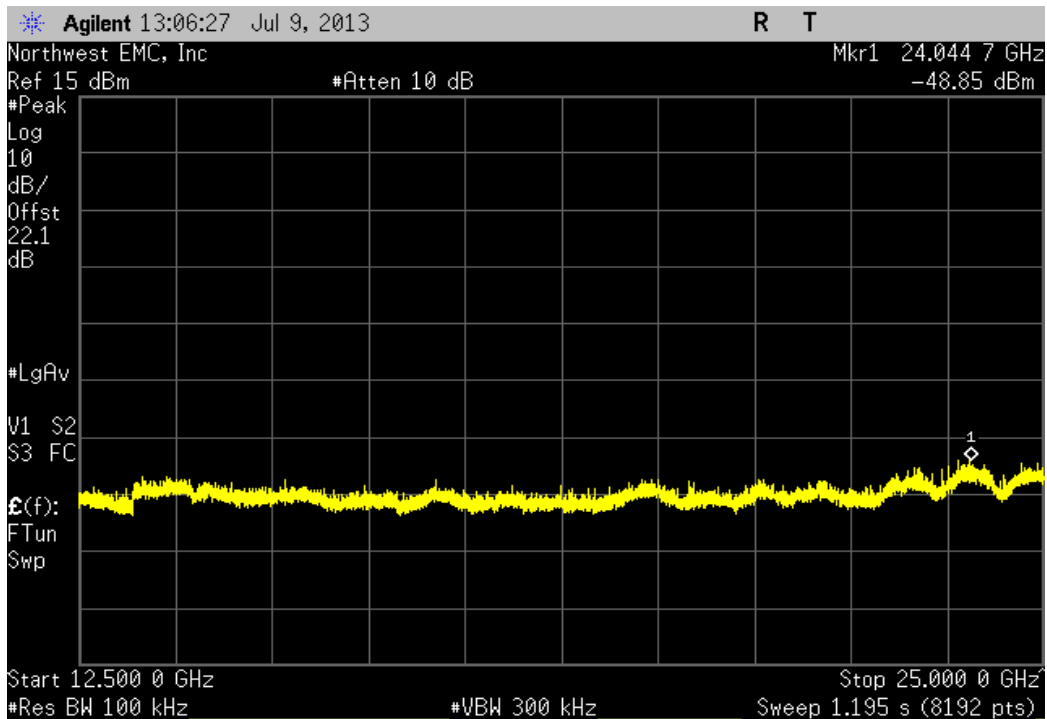
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |  |  |       |       |        |
|-------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                               |  |  |  | Value | Limit | Result |
| Fundamental                                                                   |  |  |  | N/A   | N/A   | N/A    |



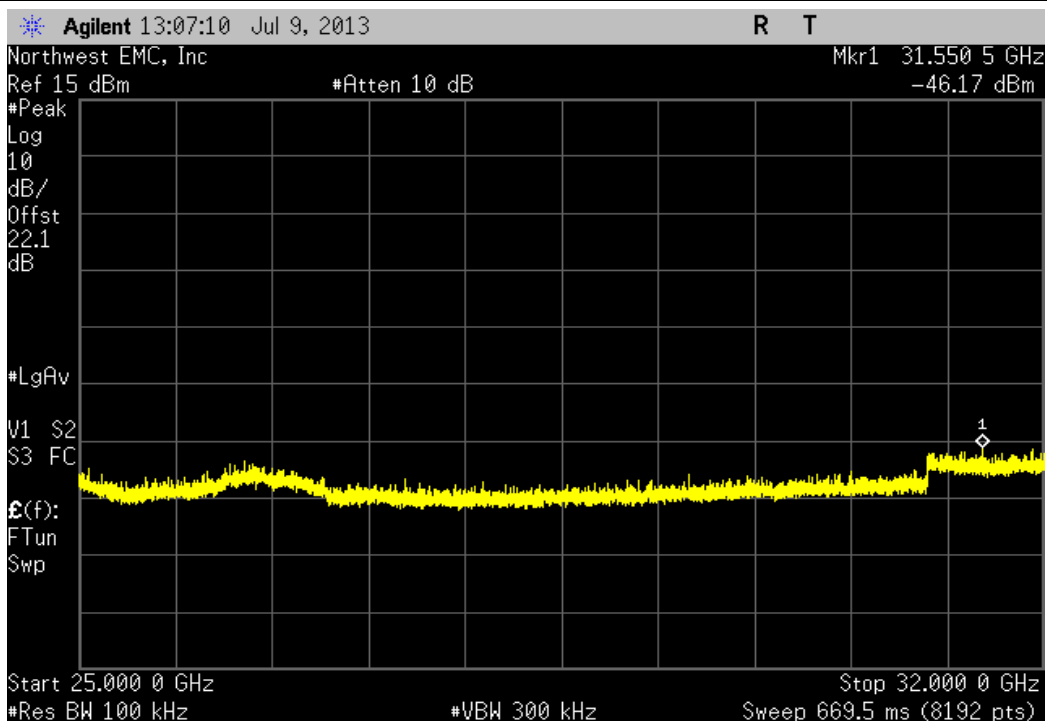
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |  |  |            |           |        |
|-------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                               |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  |  |  | -50.53 dBc | ≤ -20 dBc | Pass   |



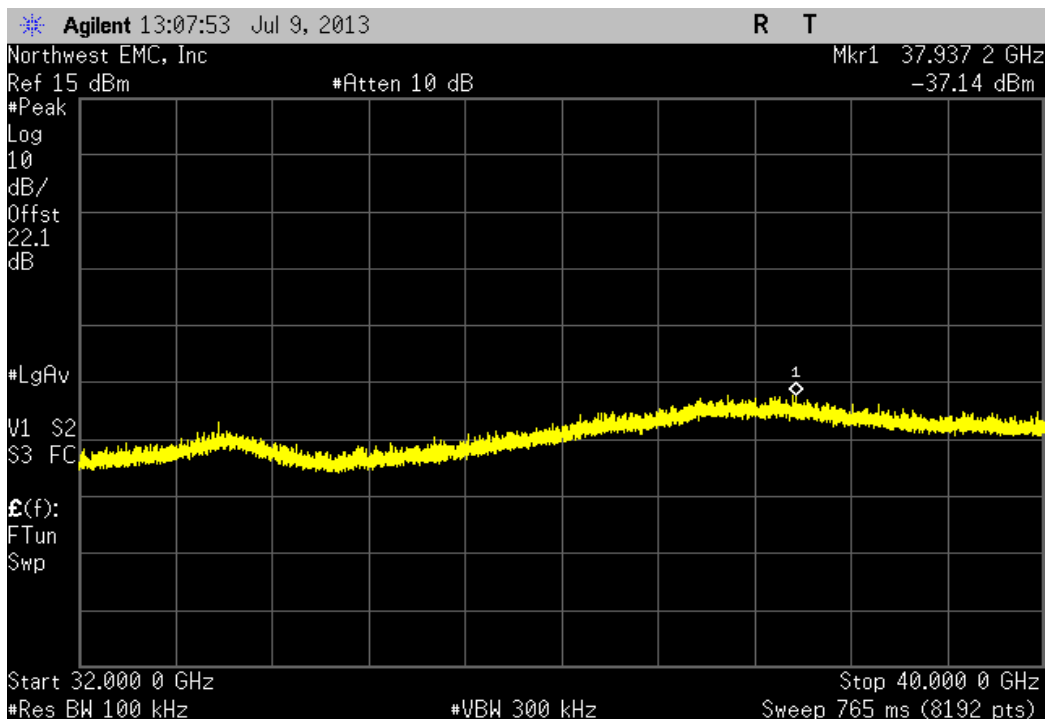
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -45.95 dBc | ≤ -20 dBc | Pass   |



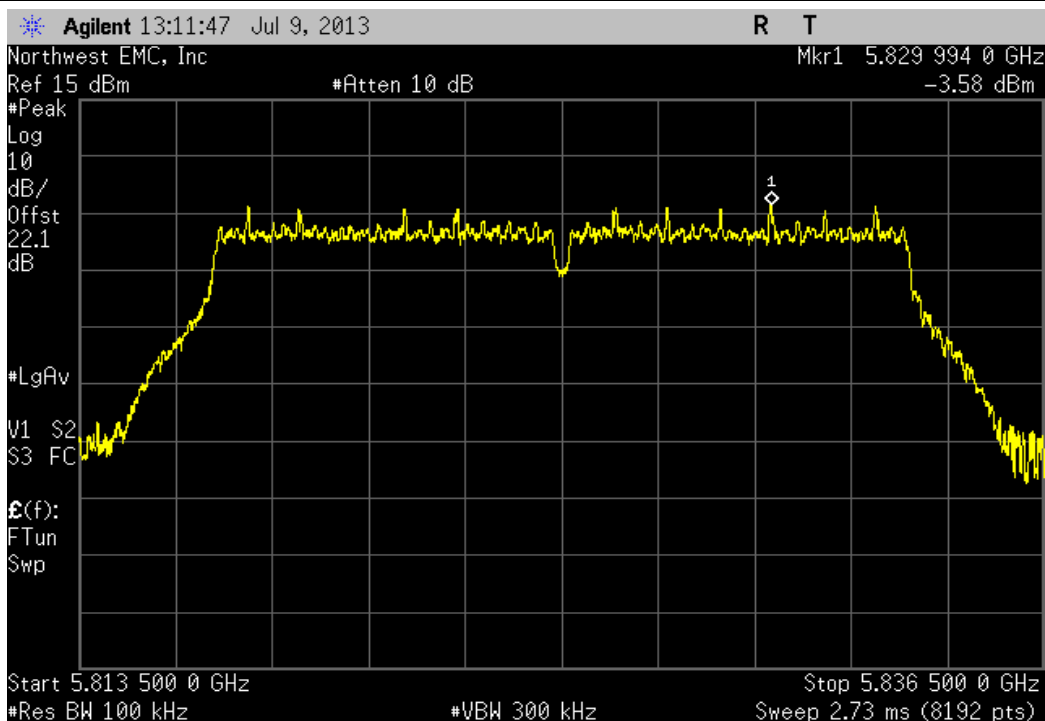
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                               |  | -43.27 dBc | ≤ -20 dBc | Pass   |



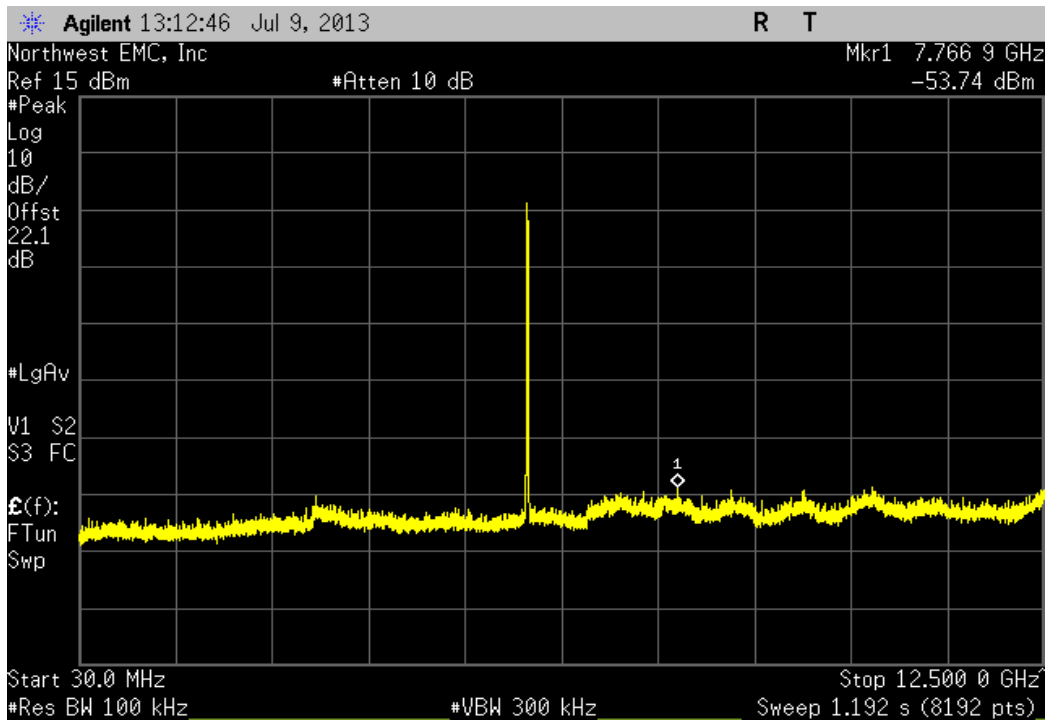
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz |  |            |           |
|-------------------------------------------------------------------------------|--|------------|-----------|
| Frequency Range                                                               |  | Value      | Limit     |
| 32 GHz - 40 GHz                                                               |  | -34.24 dBc | ≤ -20 dBc |
|                                                                               |  |            | Pass      |



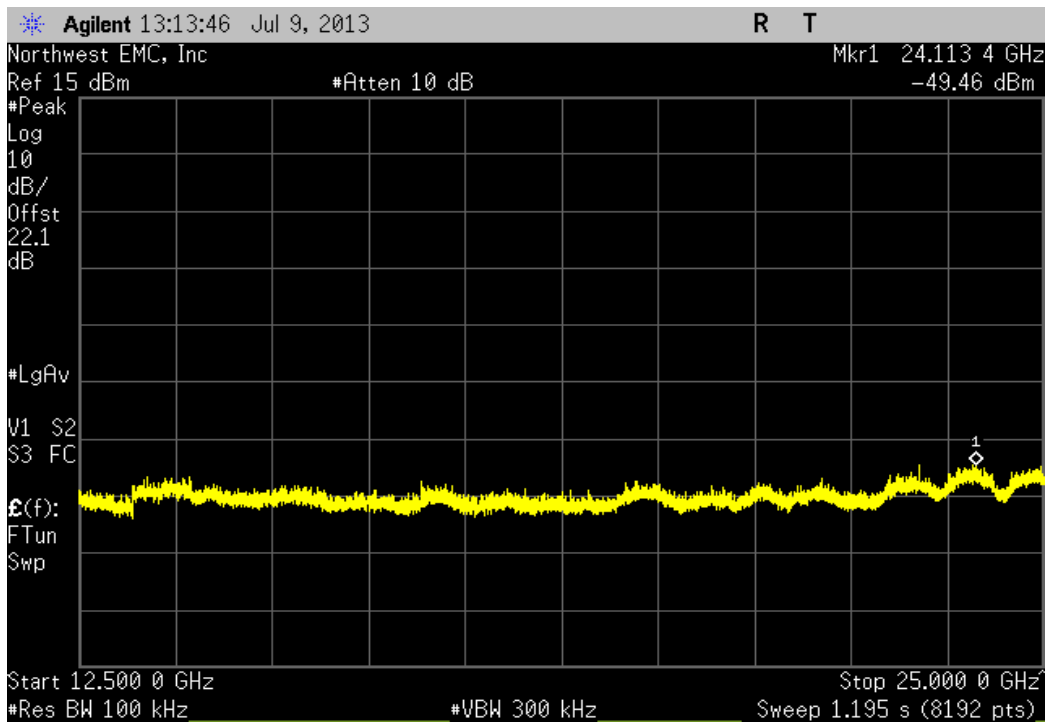
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |  |       |       |
|--------------------------------------------------------------------------------|--|-------|-------|
| Frequency Range                                                                |  | Value | Limit |
| Fundamental                                                                    |  | N/A   | N/A   |
|                                                                                |  |       | N/A   |



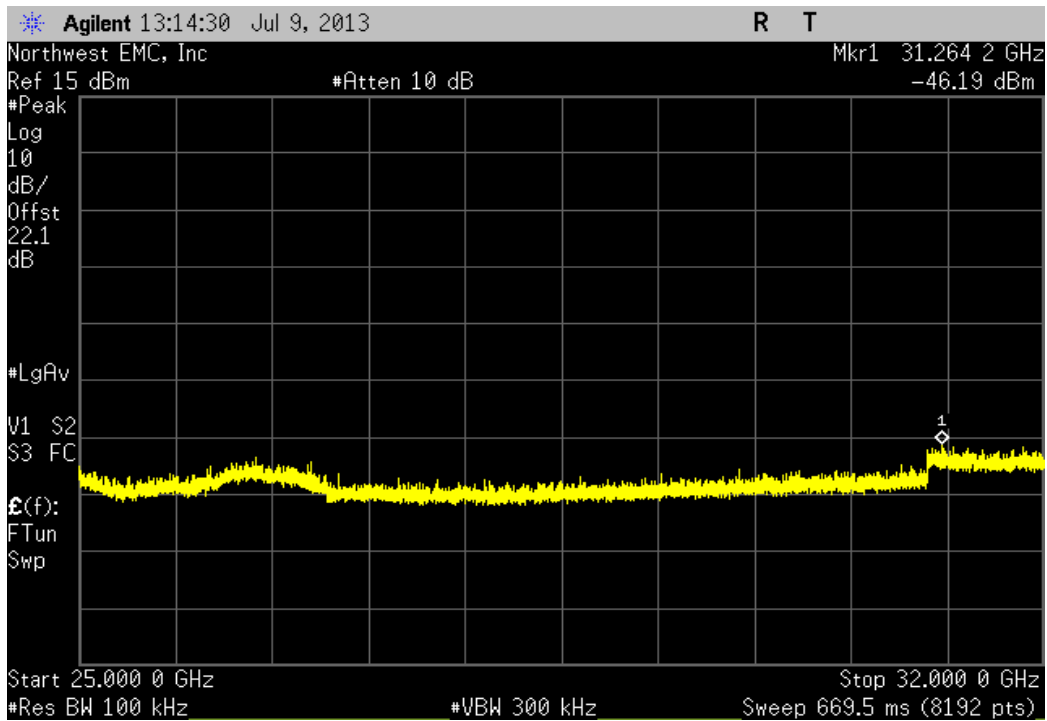
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -50.16 dBc | ≤ -20 dBc | Pass   |  |



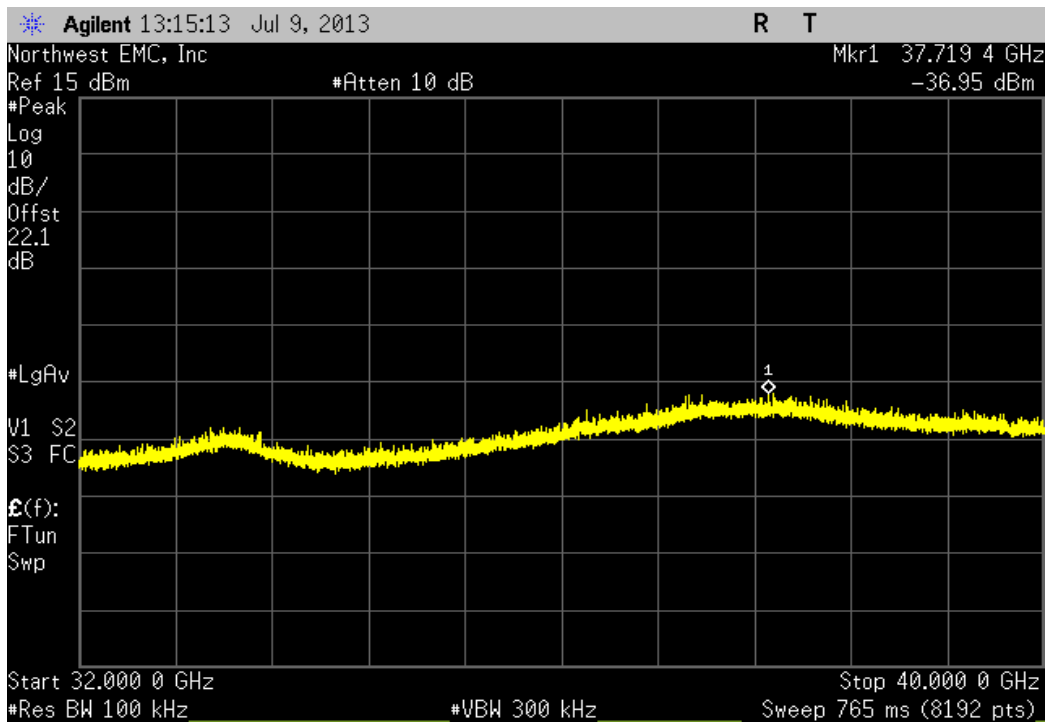
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -45.88 dBc | ≤ -20 dBc | Pass   |  |



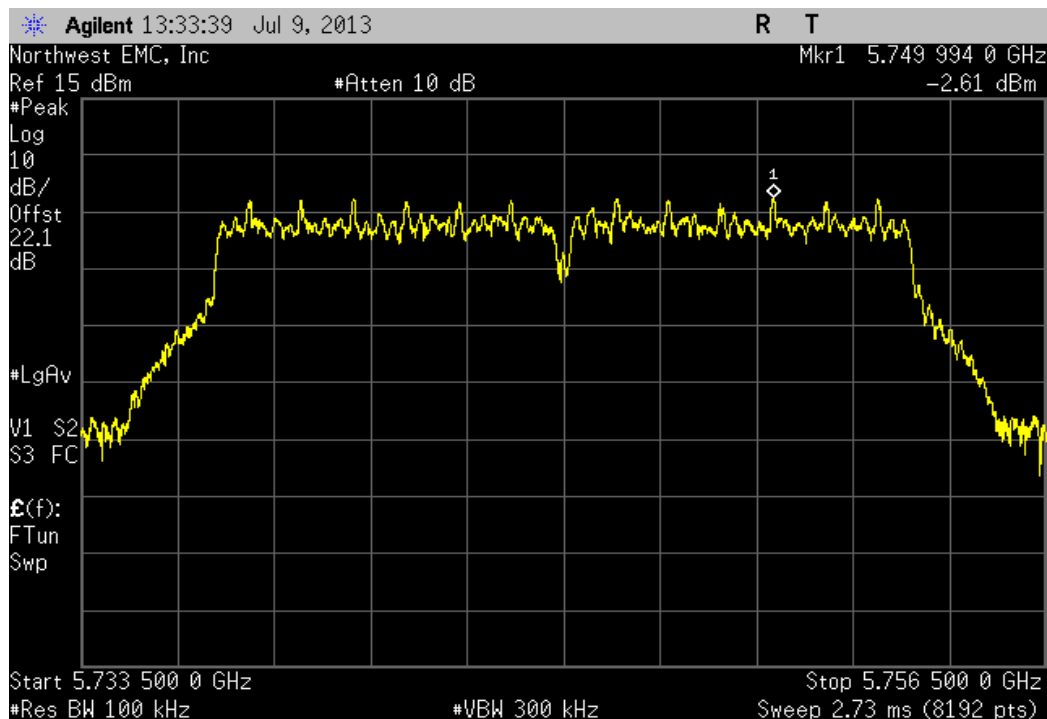
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -42.61 dBc | ≤ -20 dBc | Pass   |



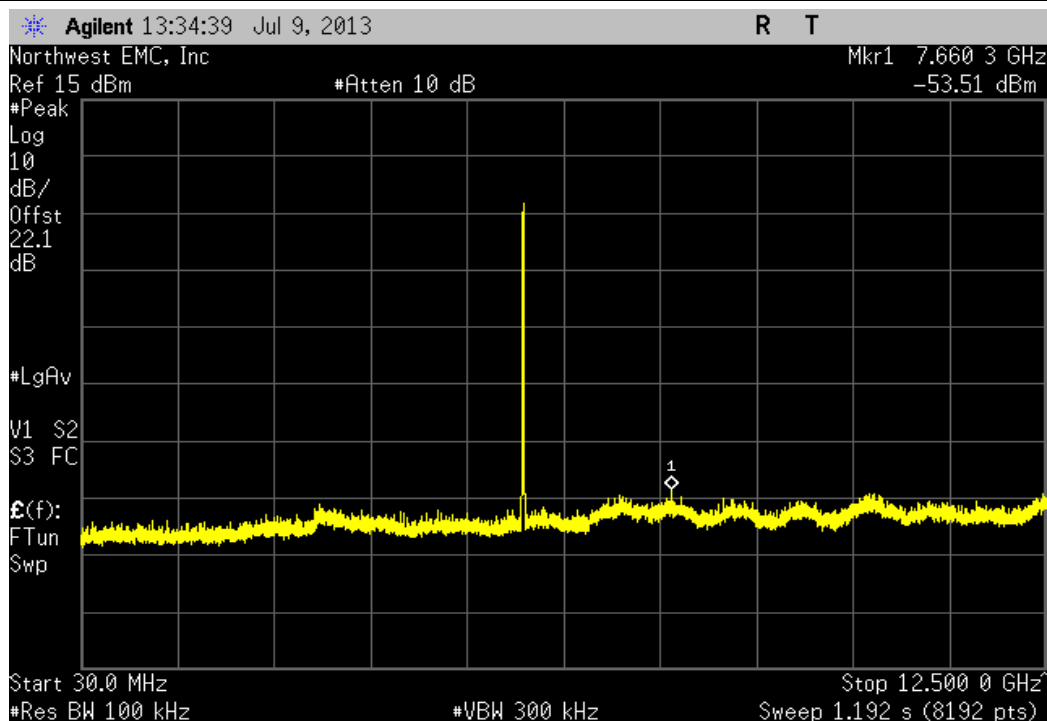
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -33.37 dBc | ≤ -20 dBc | Pass   |



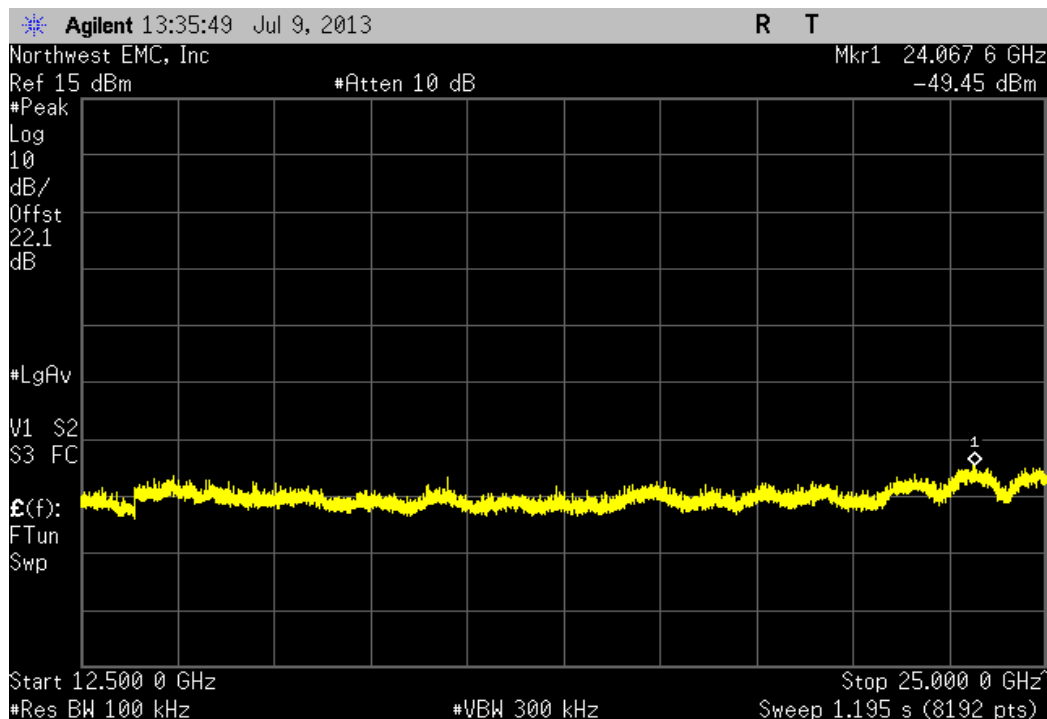
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



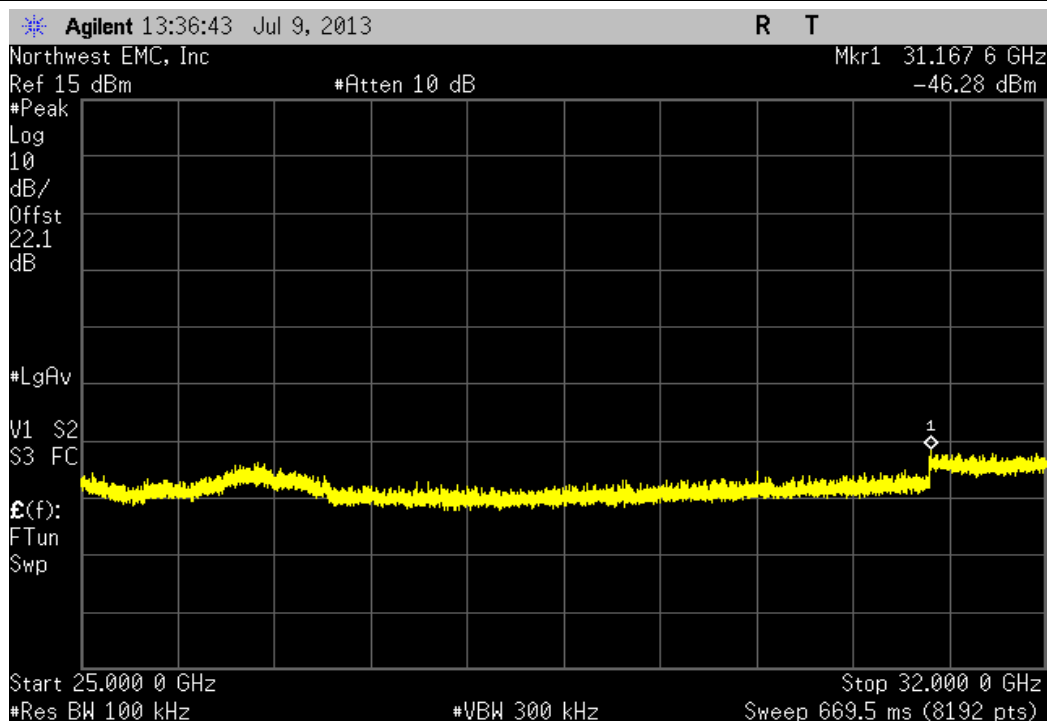
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |           |           |        |
|--------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  | -50.9 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                              |  | -46.84 dBc | ≤ -20 dBc | Pass   |

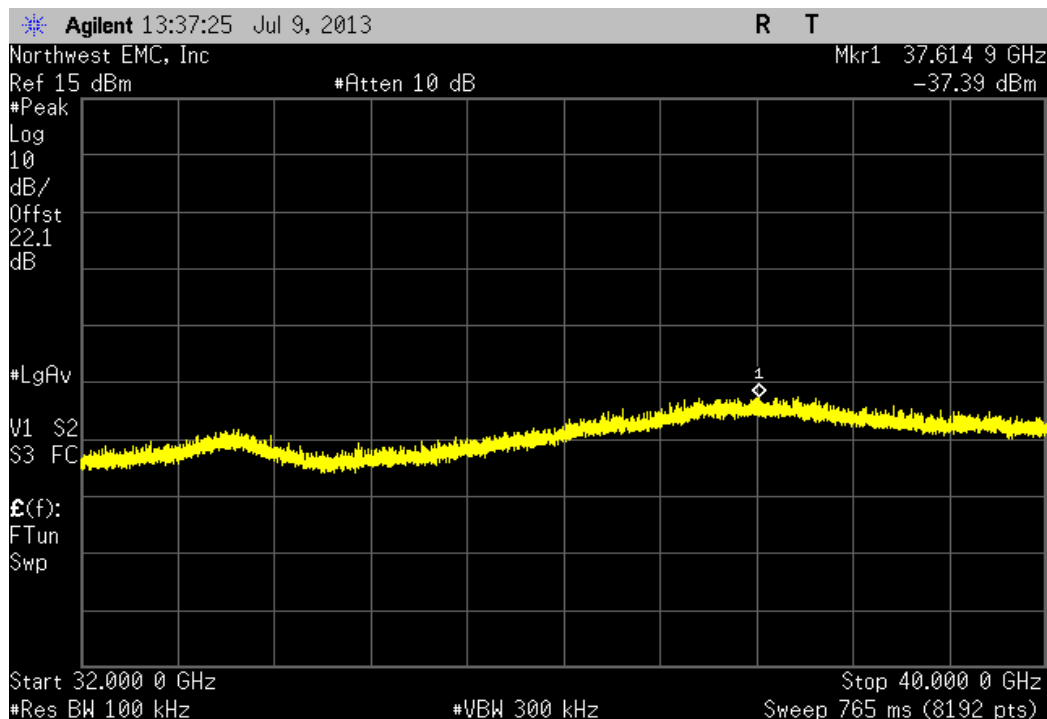


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -43.67 dBc | ≤ -20 dBc | Pass   |

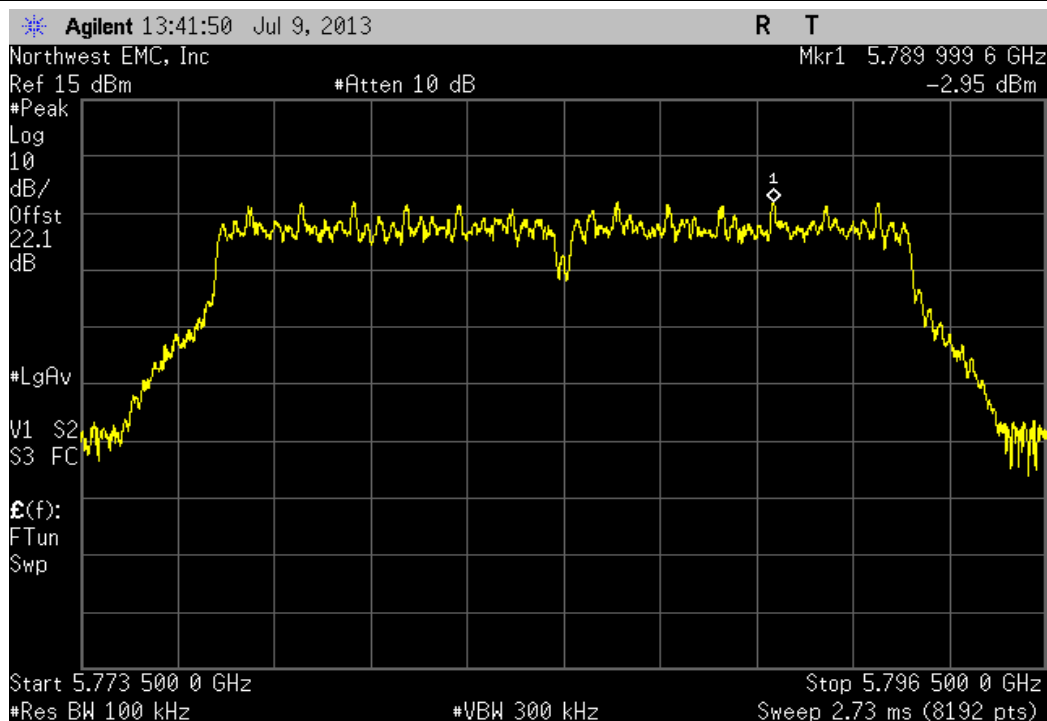




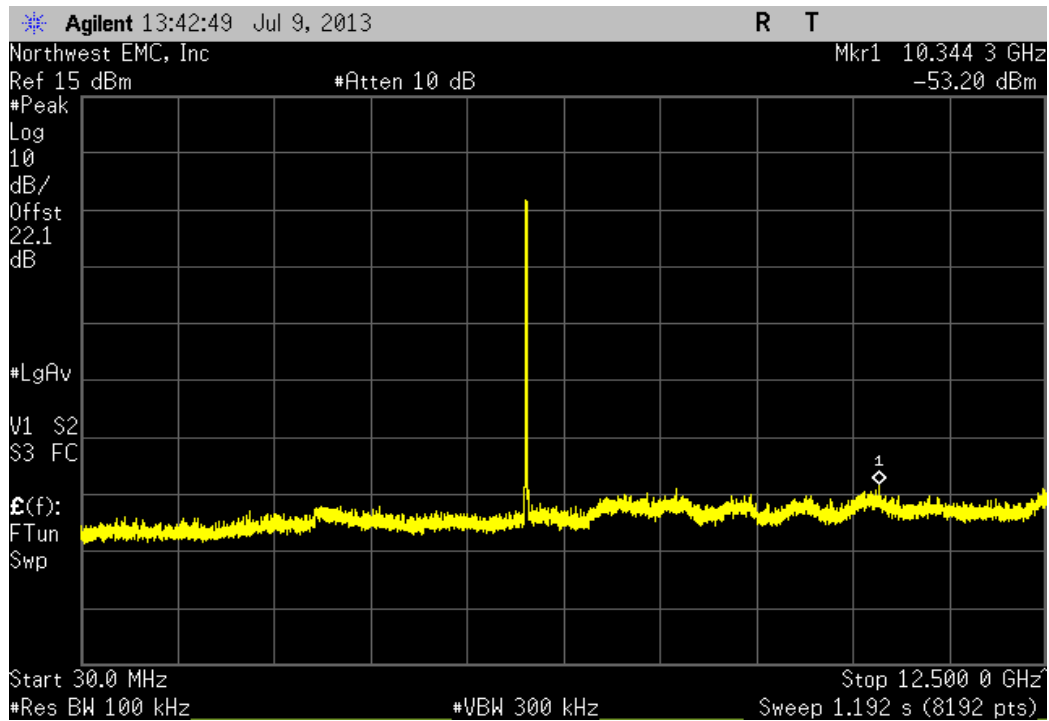
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -34.78 dBc | ≤ -20 dBc | Pass   |



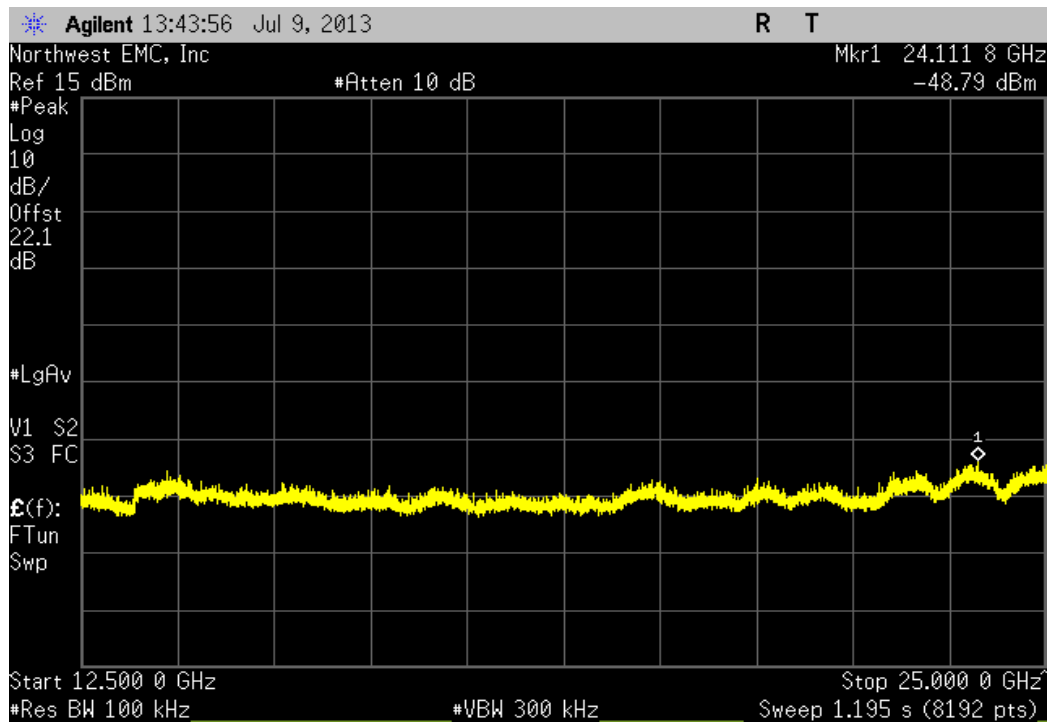
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



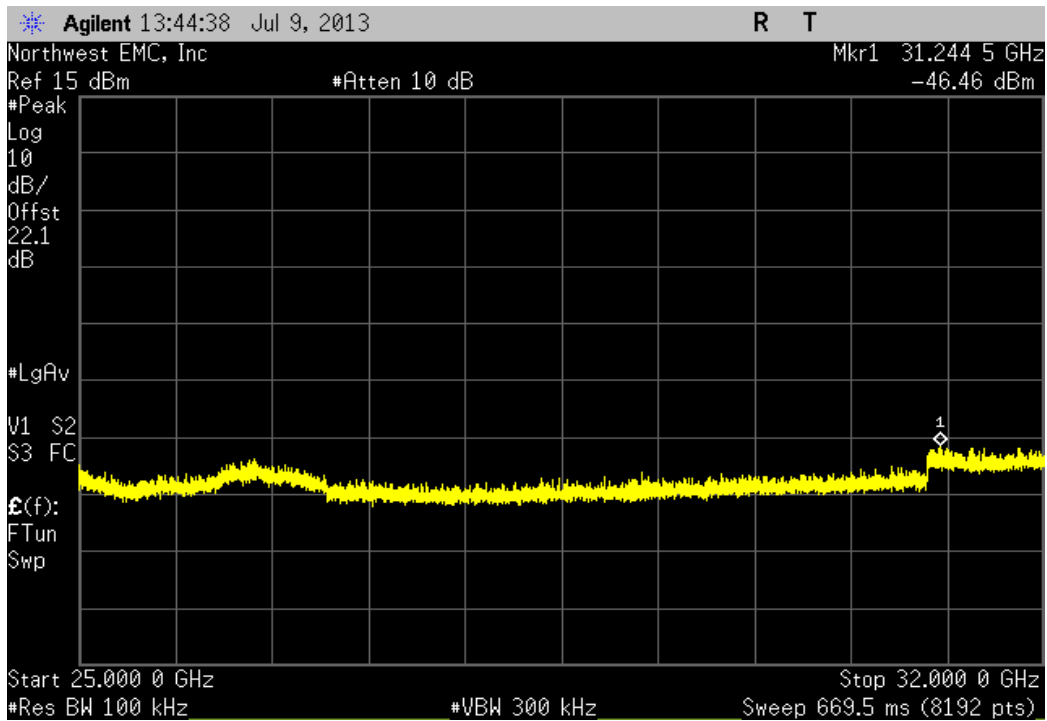
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -50.25 dBc | ≤ -20 dBc | Pass   |  |



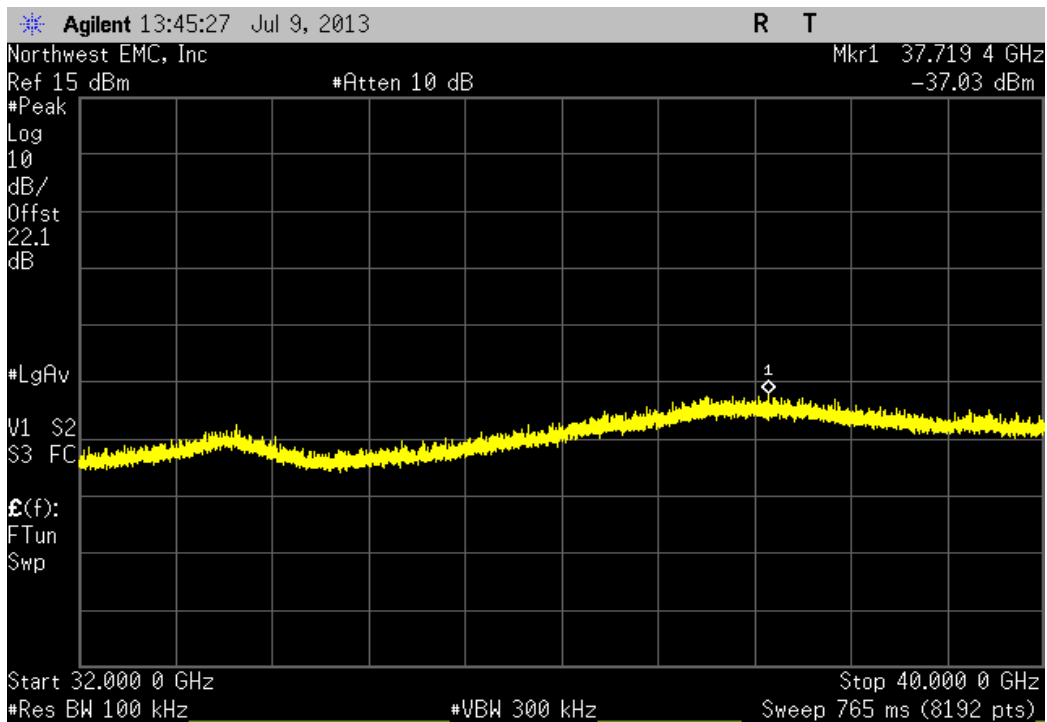
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -45.84 dBc | ≤ -20 dBc | Pass   |  |



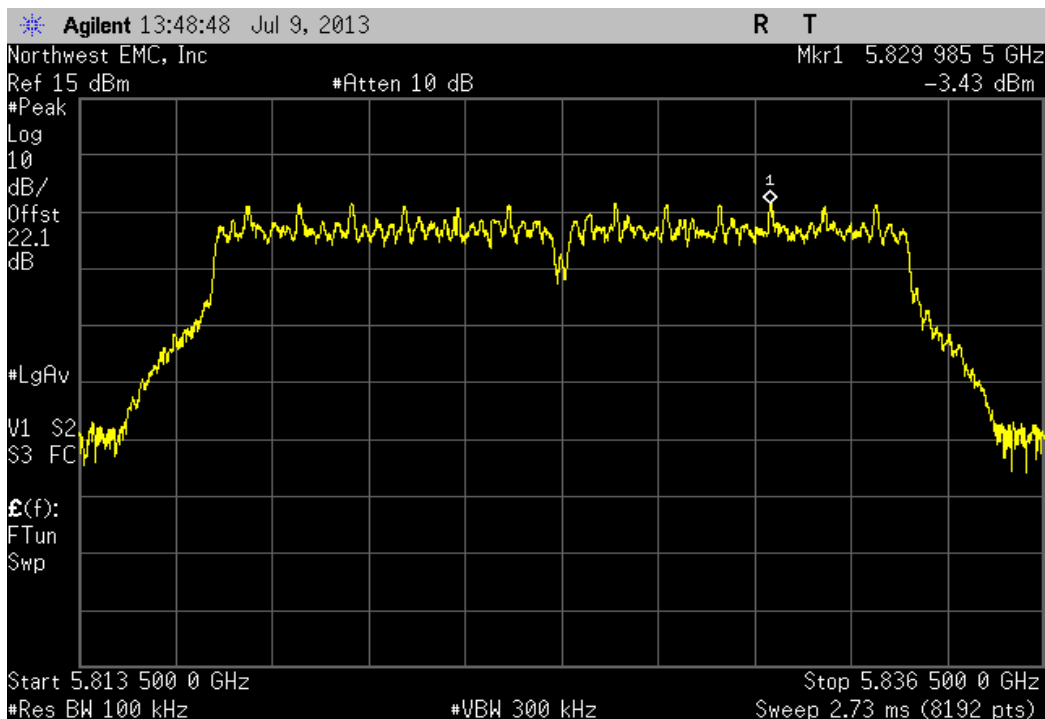
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -43.51 dBc | ≤ -20 dBc | Pass   |



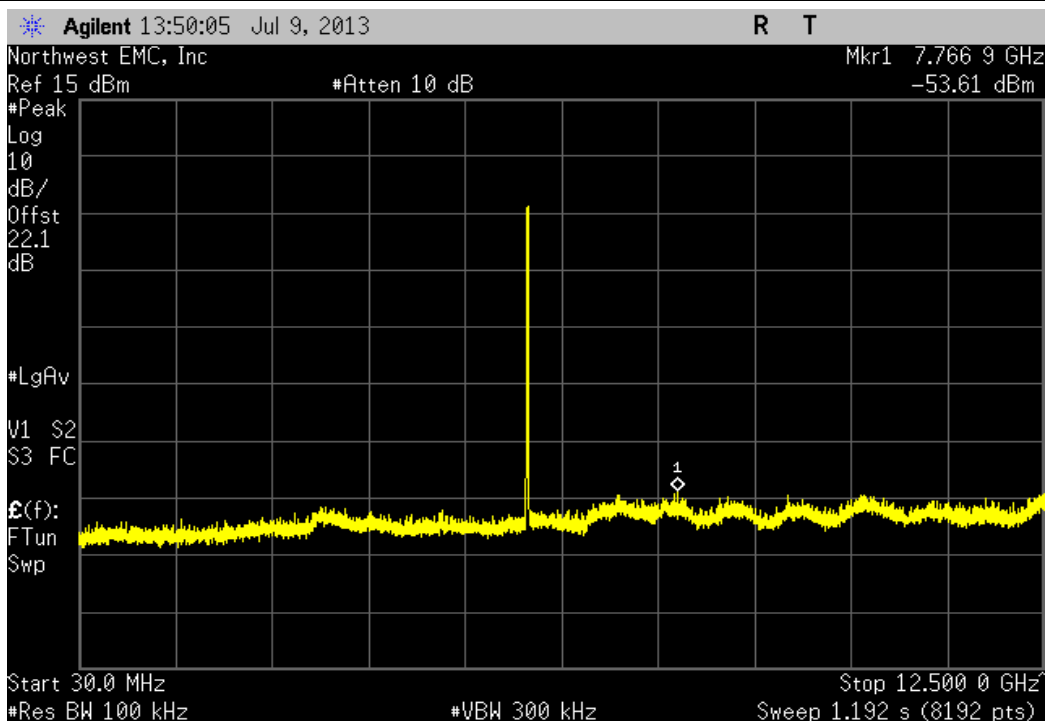
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -34.08 dBc | ≤ -20 dBc | Pass   |



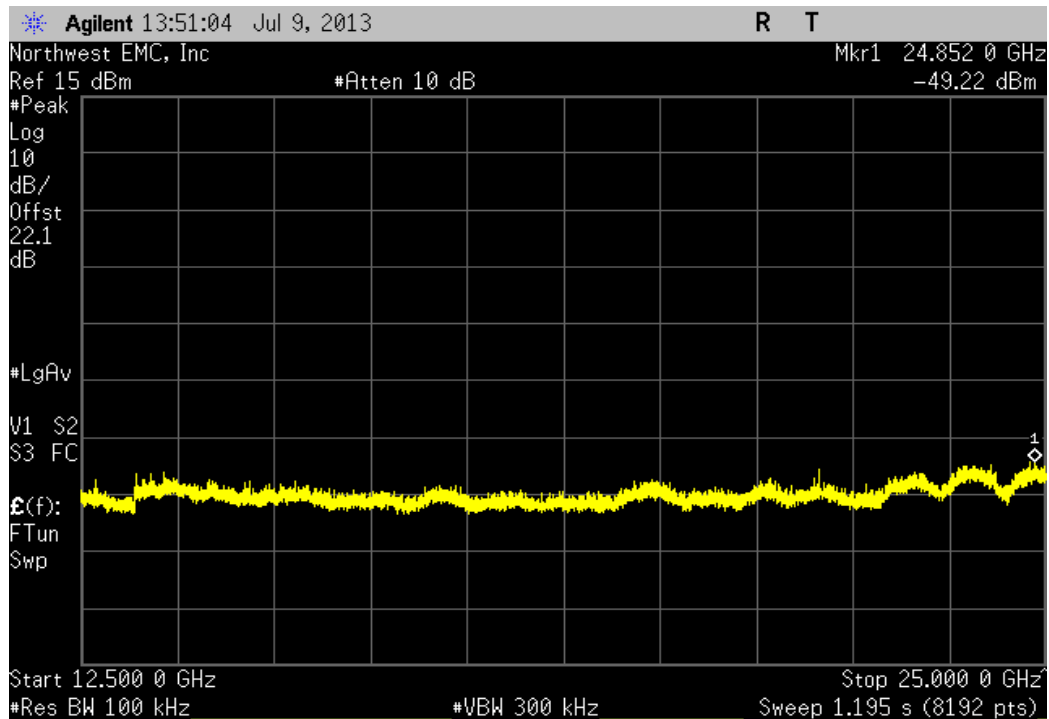
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |  |  |       |       |        |
|---------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                 |  |  |  | Value | Limit | Result |
| Fundamental                                                                     |  |  |  | N/A   | N/A   | N/A    |



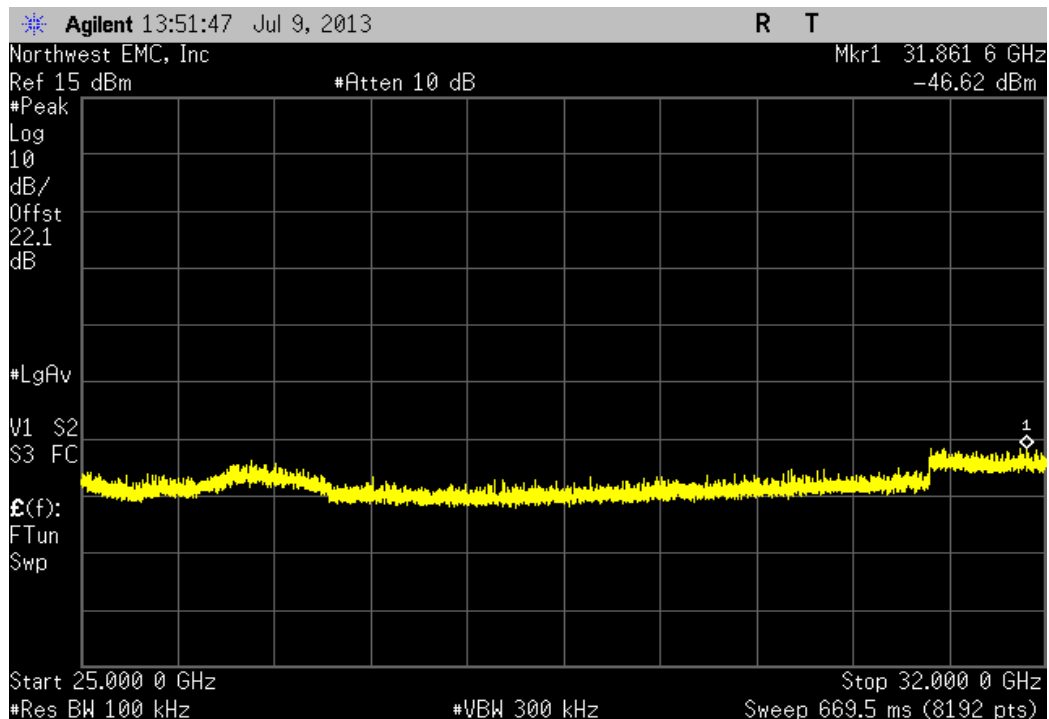
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |  |  |            |           |        |
|---------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                 |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  |  |  | -50.18 dBc | ≤ -20 dBc | Pass   |



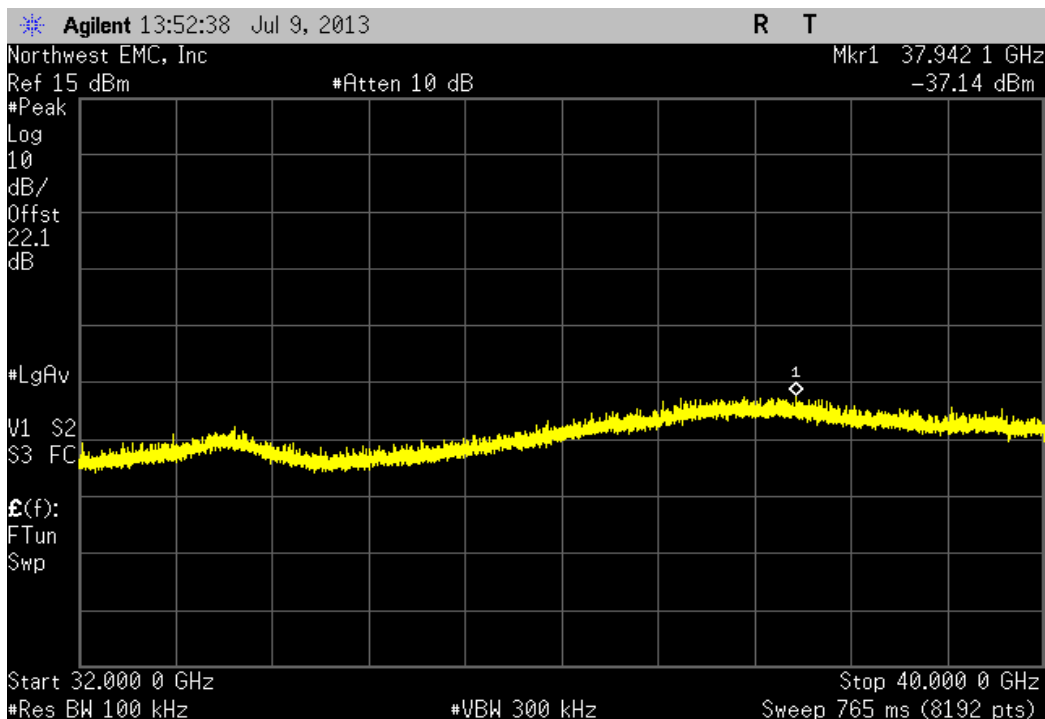
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                               |  | -45.78 dBc | ≤ -20 dBc | Pass   |



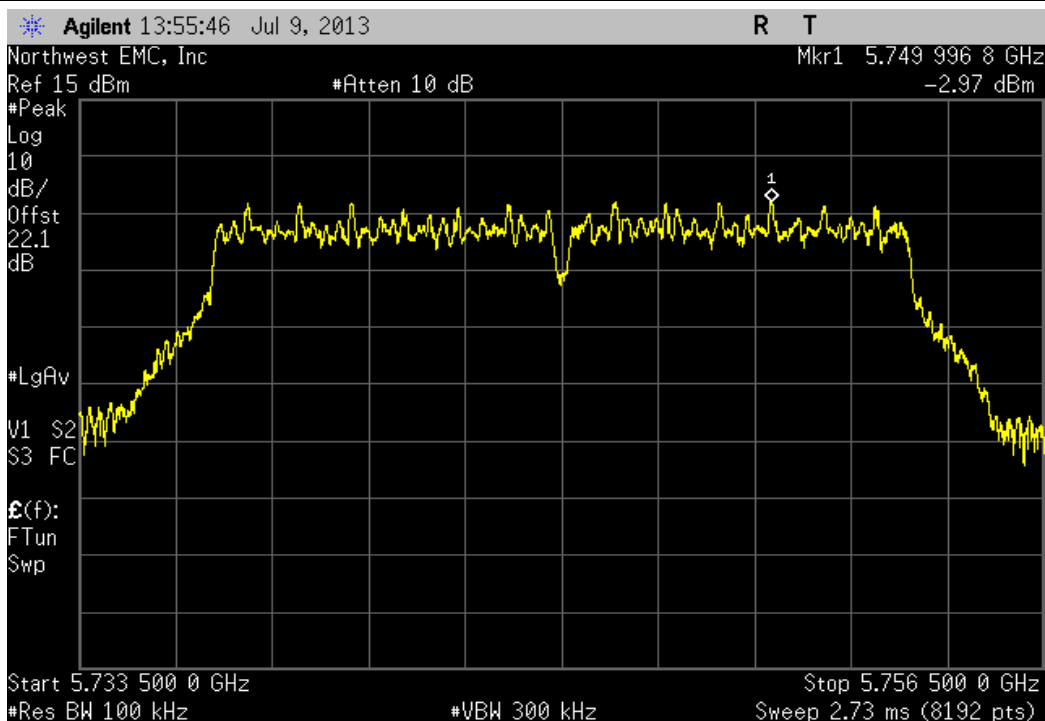
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                 |  | -43.19 dBc | ≤ -20 dBc | Pass   |



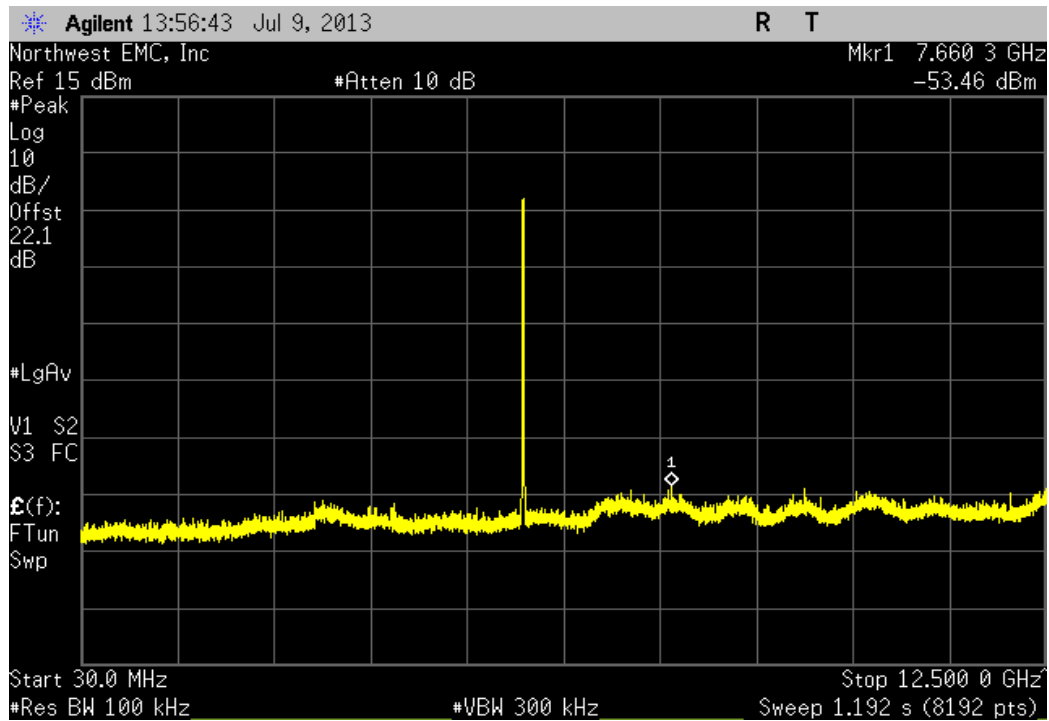
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                 |  | -33.71 dBc | ≤ -20 dBc | Pass   |



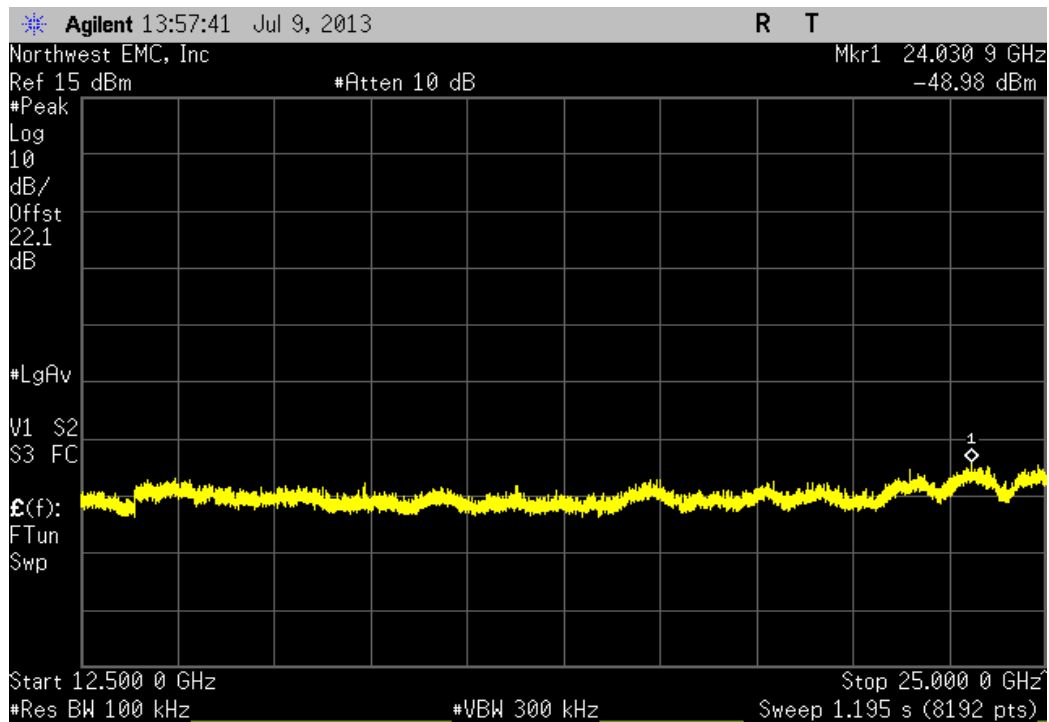
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |  |       |       |        |
|--------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                |  | Value | Limit | Result |
| Fundamental                                                                    |  | N/A   | N/A   | N/A    |



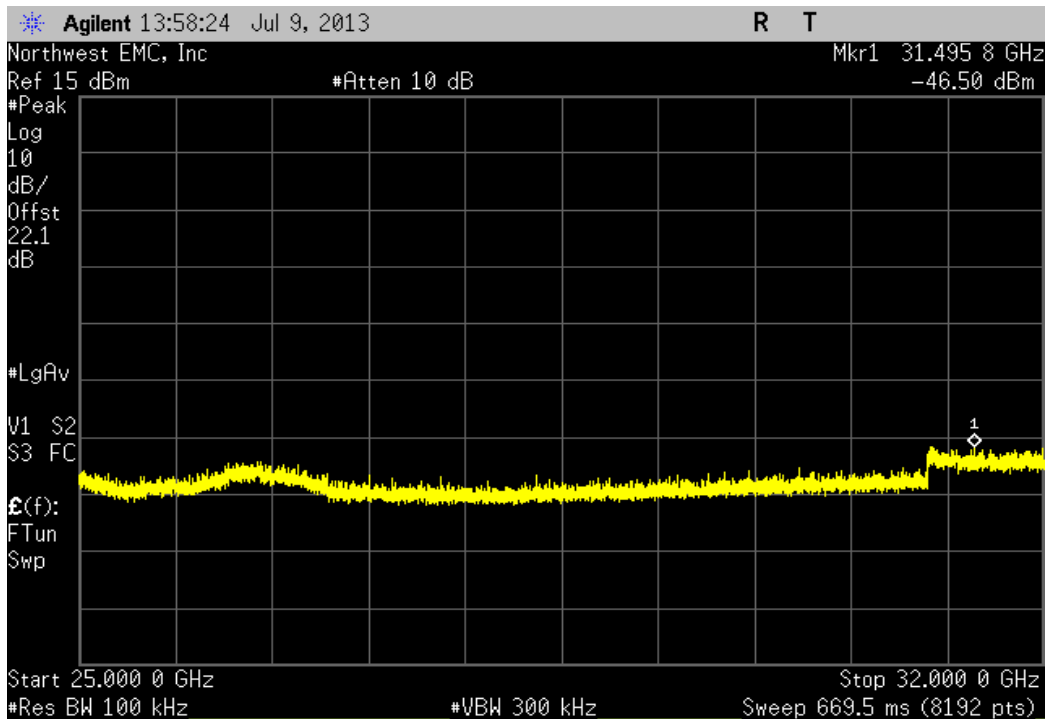
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                              | -50.49 dBc | ≤ -20 dBc | Pass   |  |



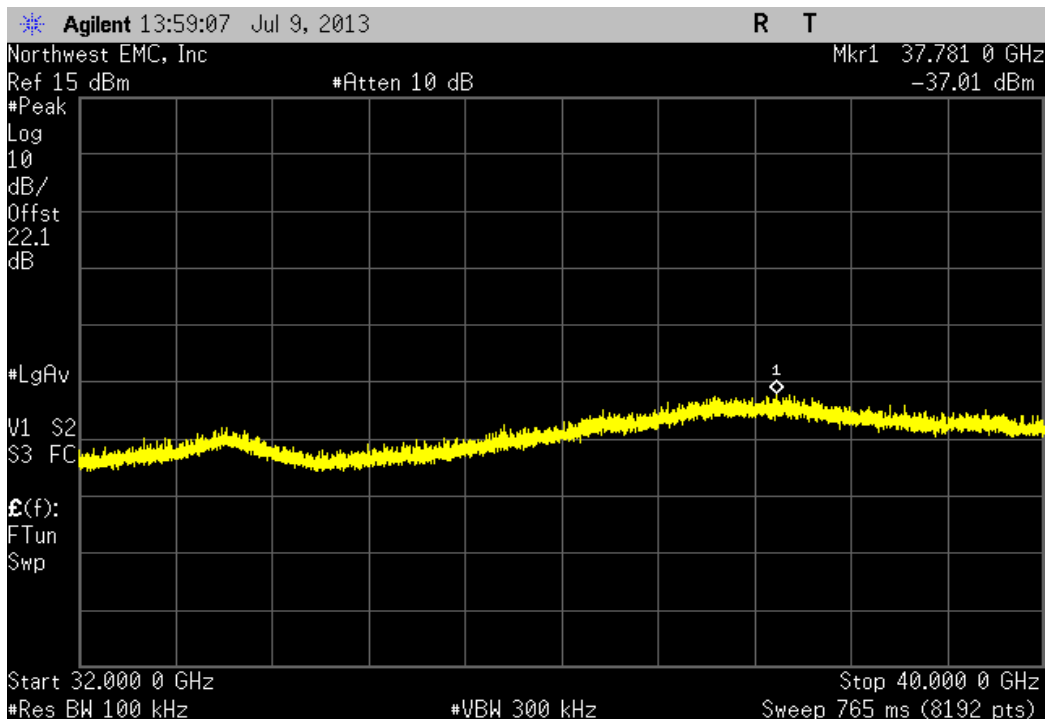
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -46.01 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                |  | -43.53 dBc | ≤ -20 dBc | Pass   |

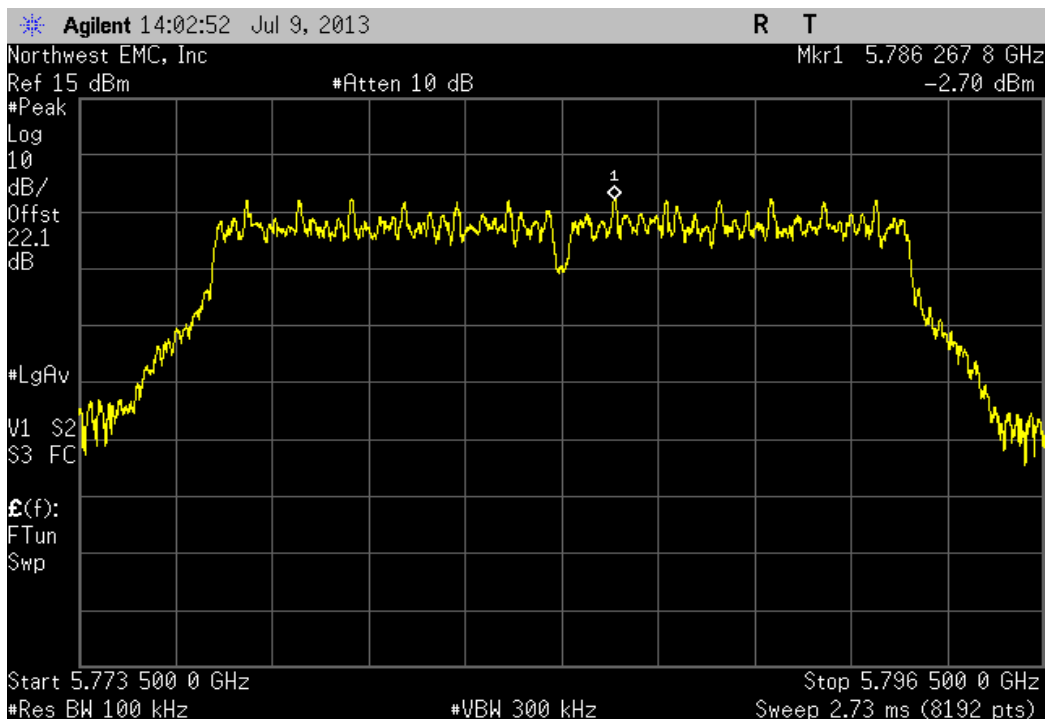


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -34.04 dBc | ≤ -20 dBc | Pass   |

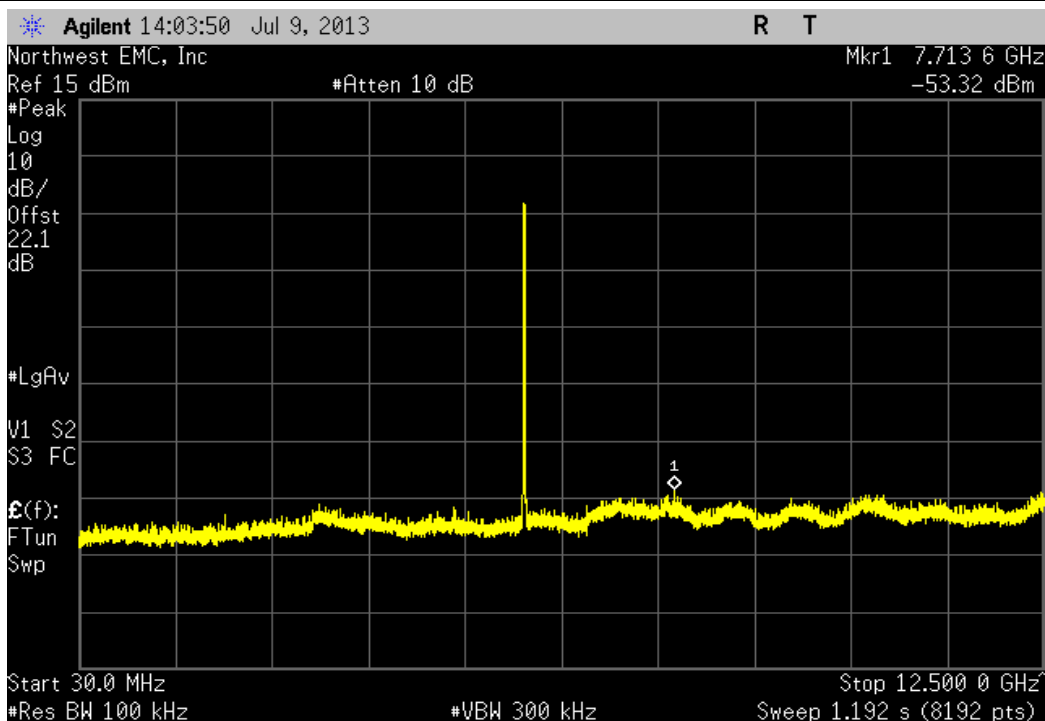




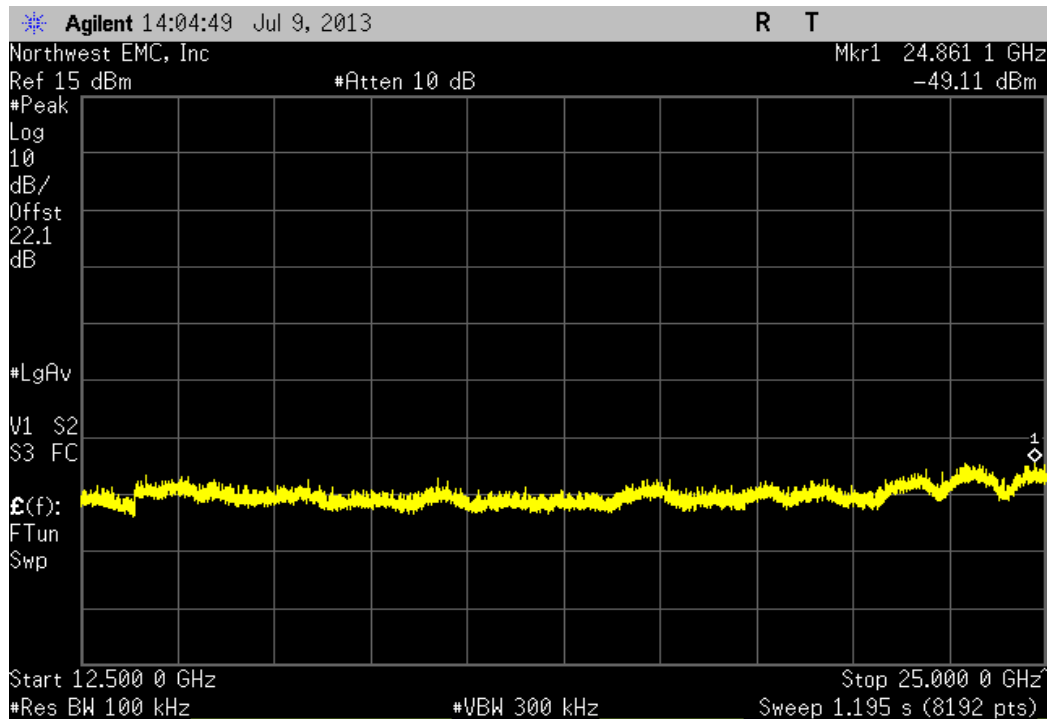
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |  |  |  |       |       |        |
|--------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                |  |  |  | Value | Limit | Result |
| Fundamental                                                                    |  |  |  | N/A   | N/A   | N/A    |



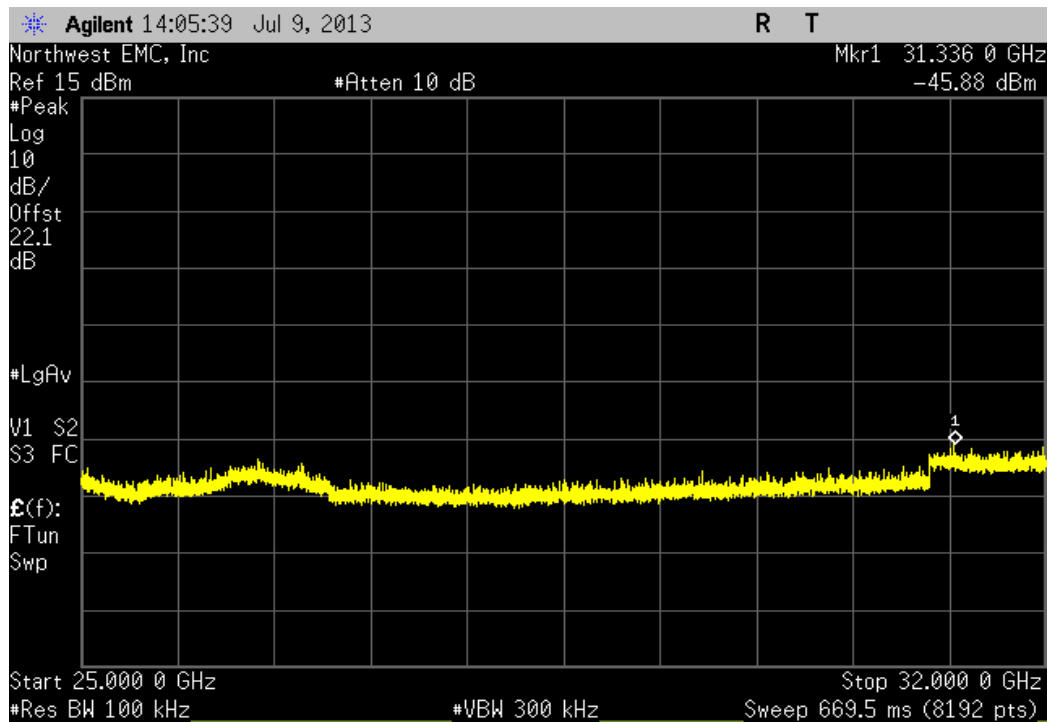
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |  |  |  |            |           |        |
|--------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                              |  |  |  | -50.62 dBc | ≤ -20 dBc | Pass   |



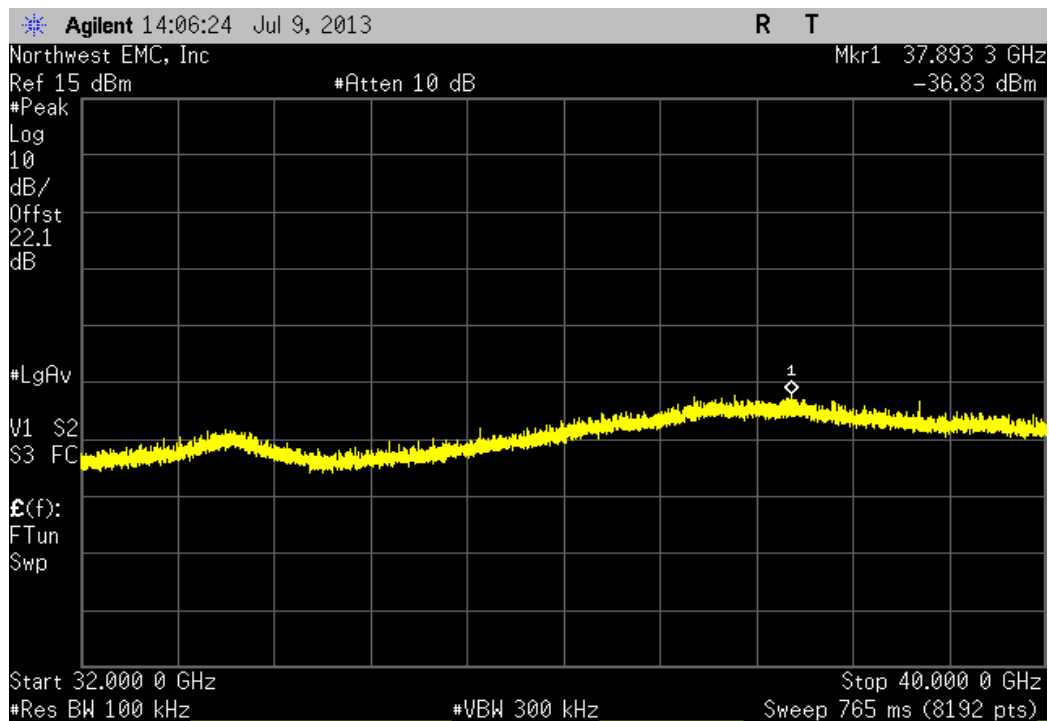
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                              | -46.41 dBc | ≤ -20 dBc | Pass   |  |



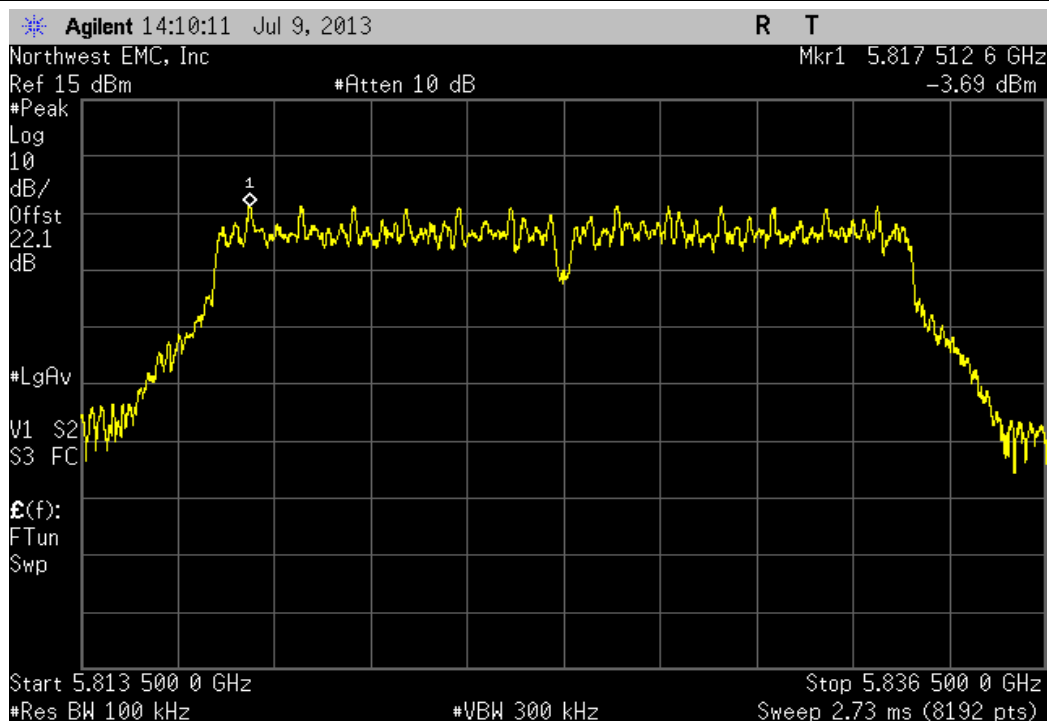
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |            |           |        |  |
|--------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                | -43.18 dBc | ≤ -20 dBc | Pass   |  |



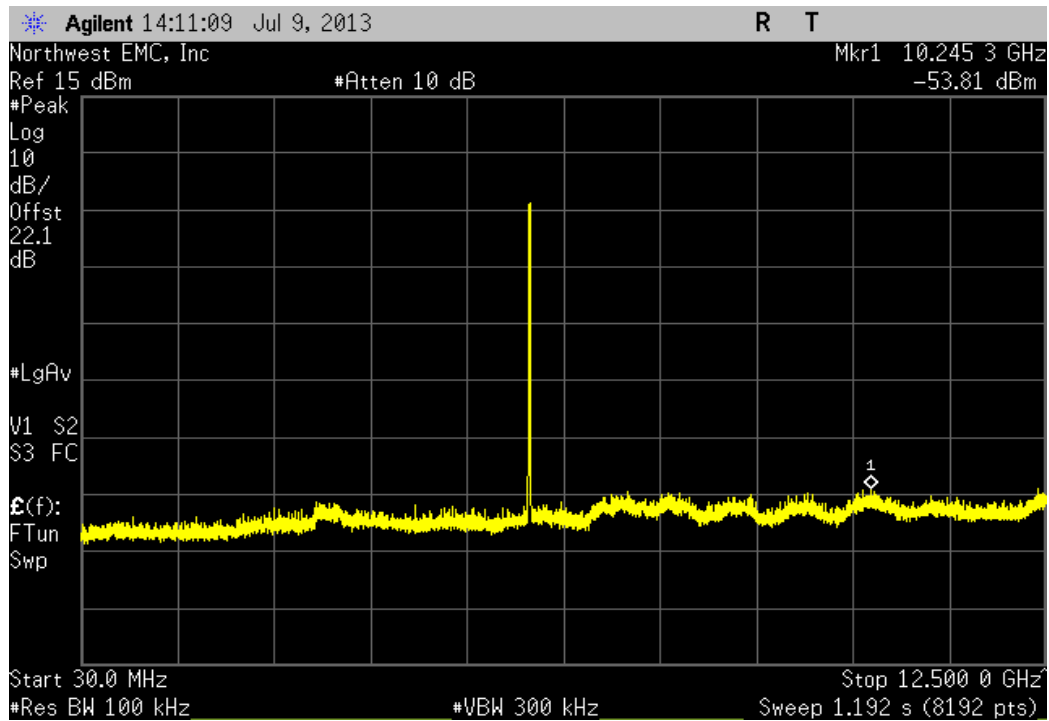
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz |  |            |           |        |
|--------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                |  | -34.14 dBc | ≤ -20 dBc | Pass   |



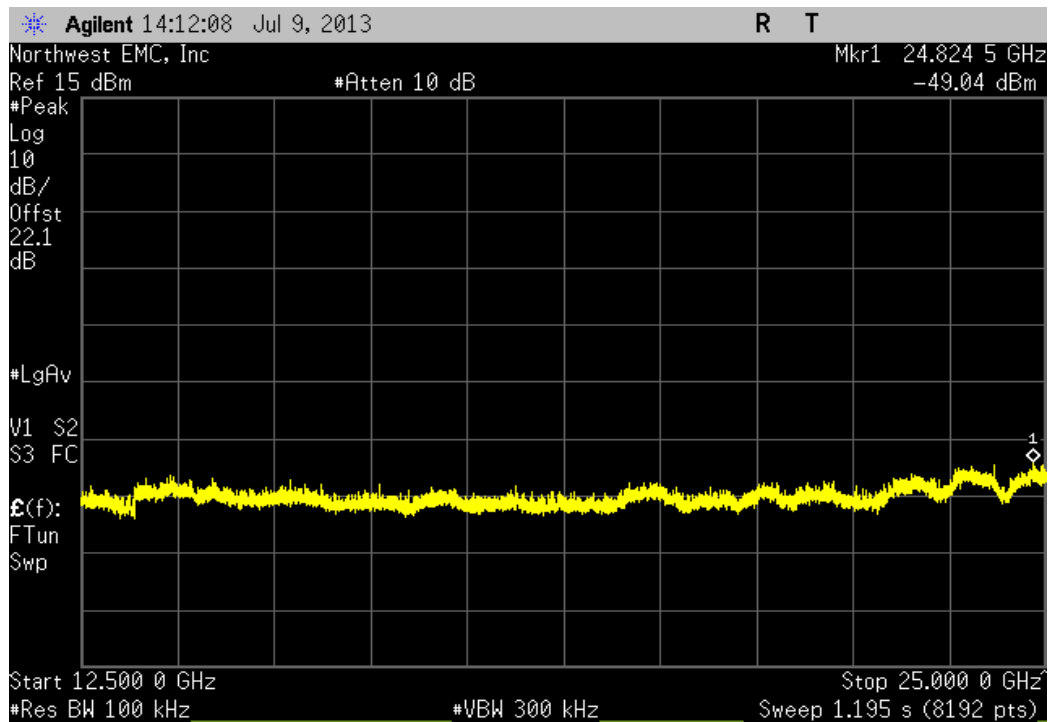
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |



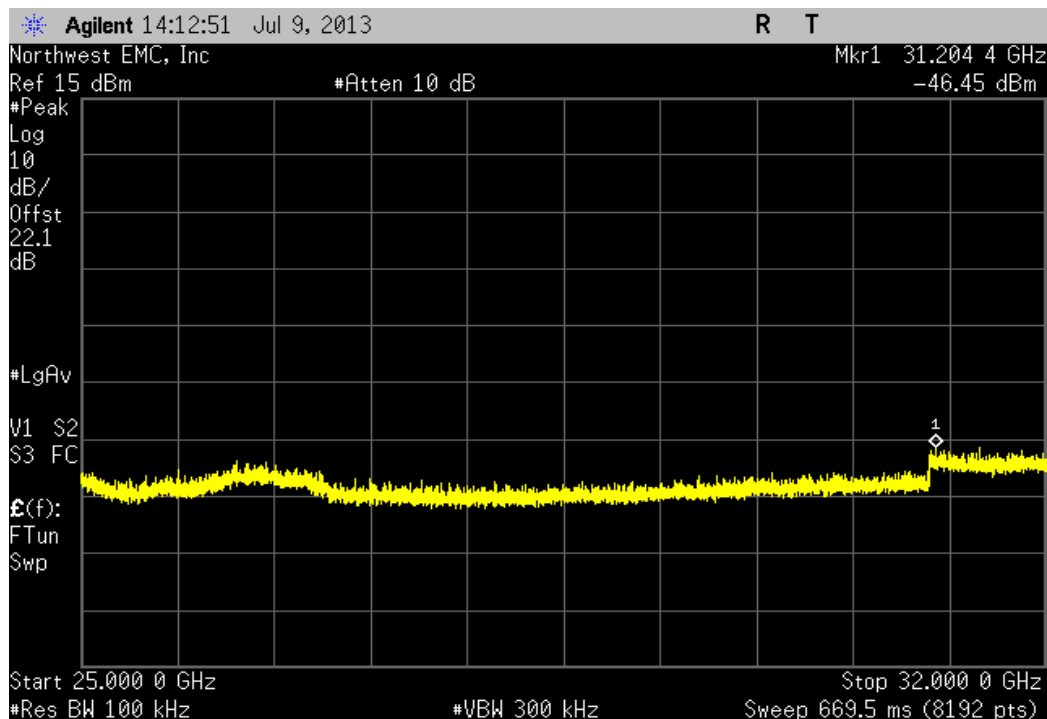
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                               | -50.12 dBc | ≤ -20 dBc | Pass   |  |



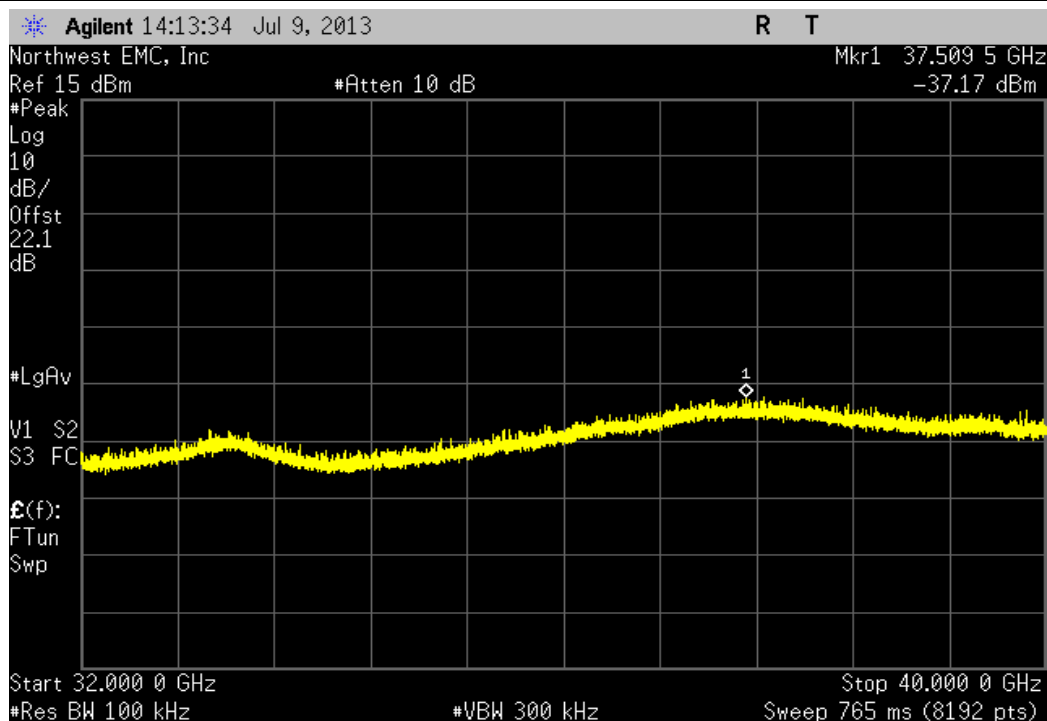
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -45.35 dBc | ≤ -20 dBc | Pass   |  |



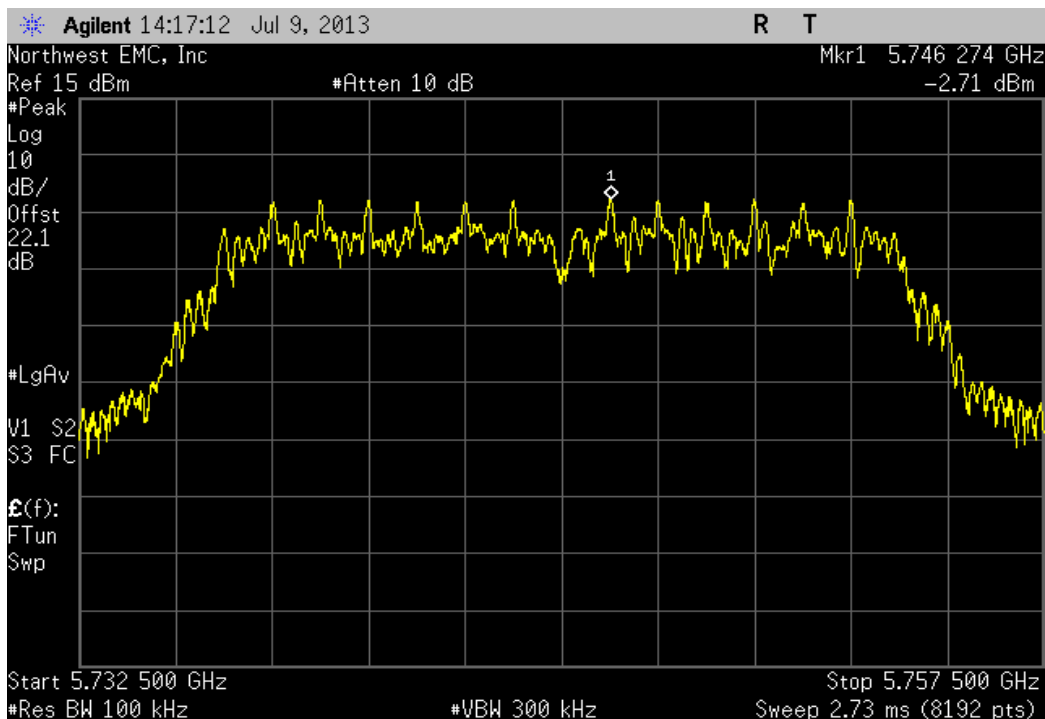
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                 |  | -42.76 dBc | ≤ -20 dBc | Pass   |



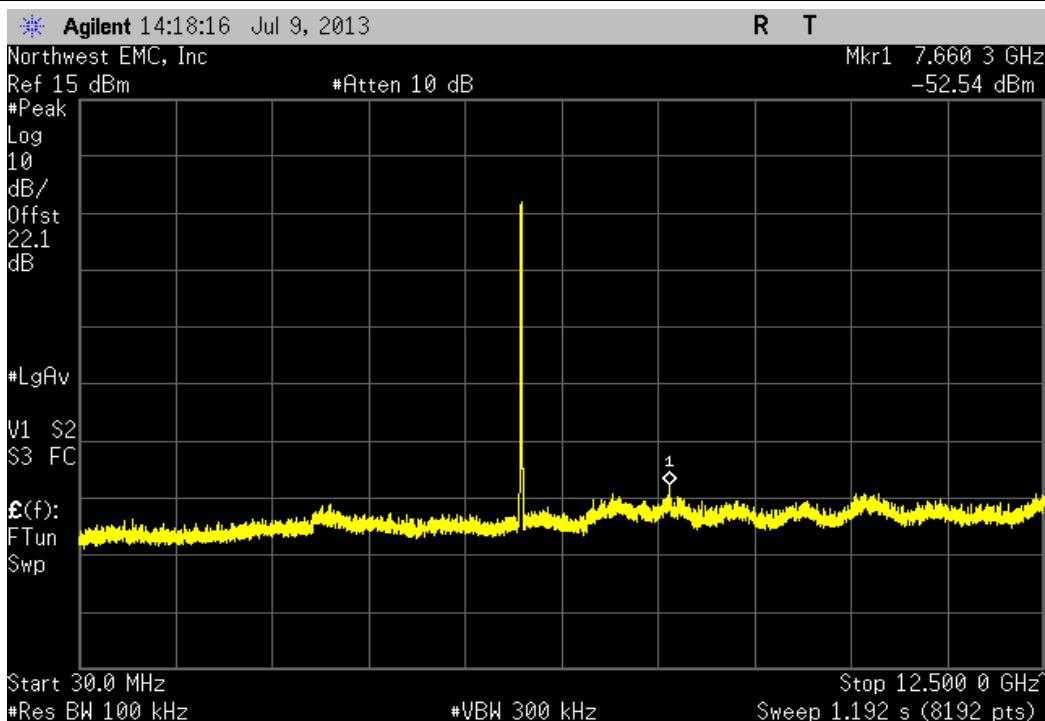
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                 |  | -33.49 dBc | ≤ -20 dBc | Pass   |



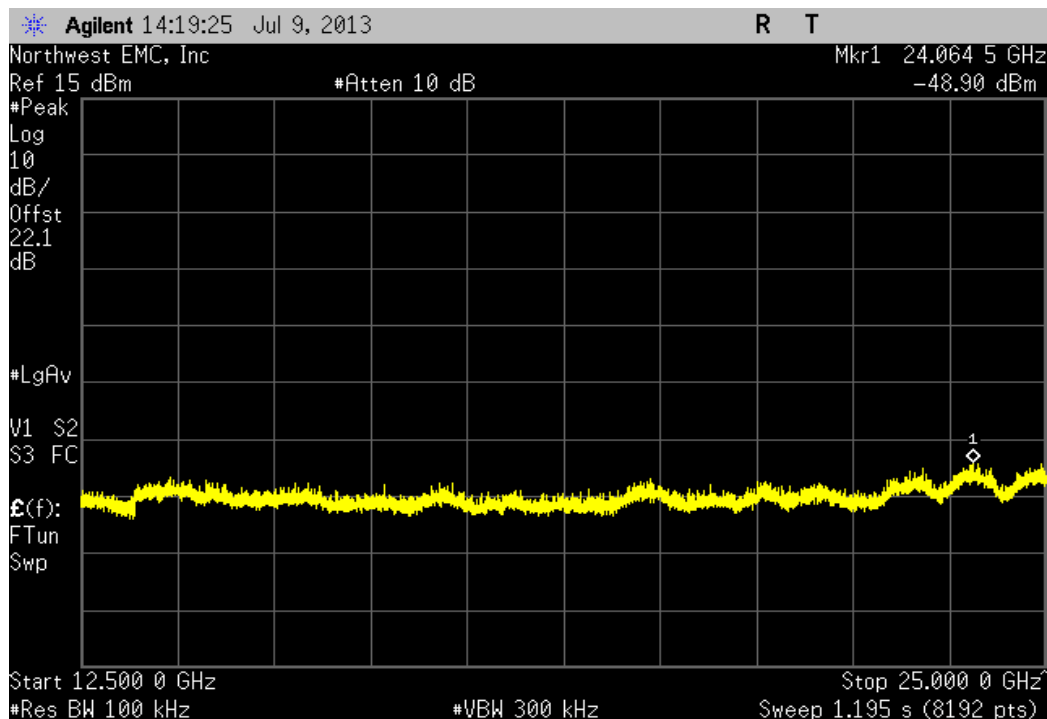
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |  |       |       |        |
|------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                    |  | Value | Limit | Result |
| Fundamental                                                                        |  | N/A   | N/A   | N/A    |



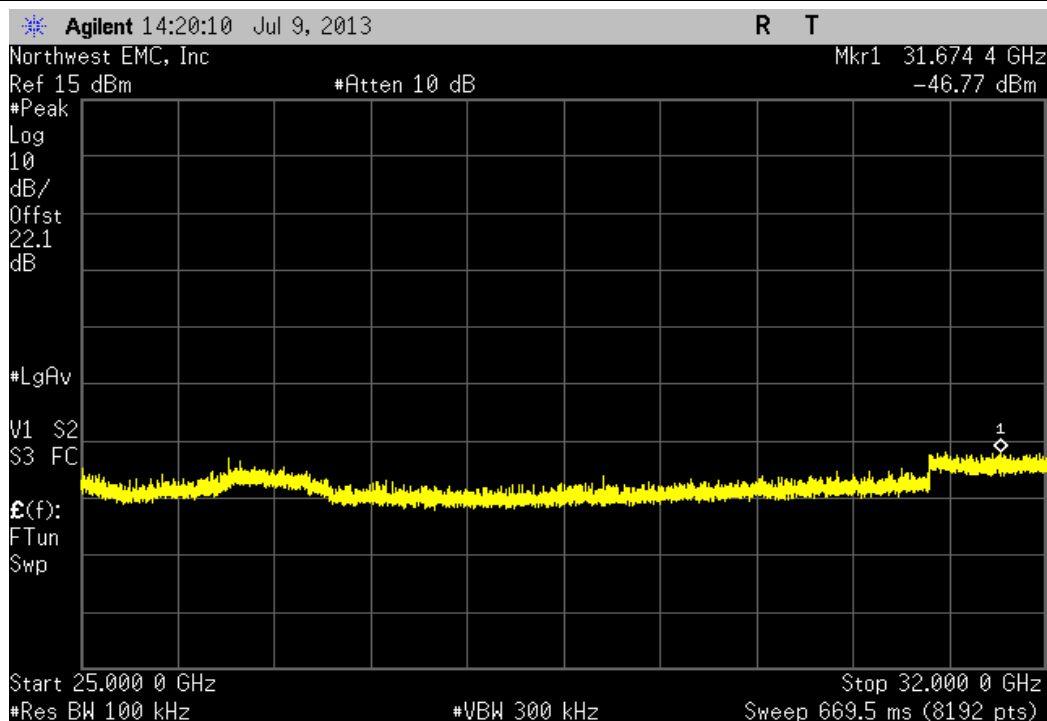
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |  |            |           |        |
|------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                    |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                  |  | -49.83 dBc | ≤ -20 dBc | Pass   |



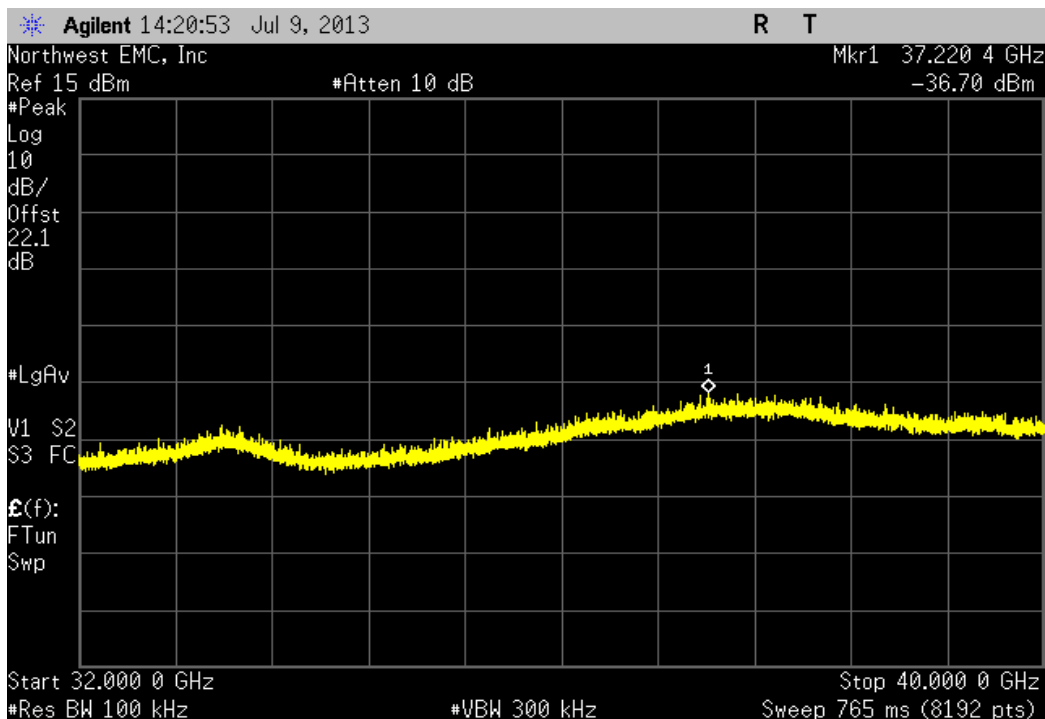
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |           |           |        |  |
|------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                    | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -46.2 dBc | ≤ -20 dBc | Pass   |  |



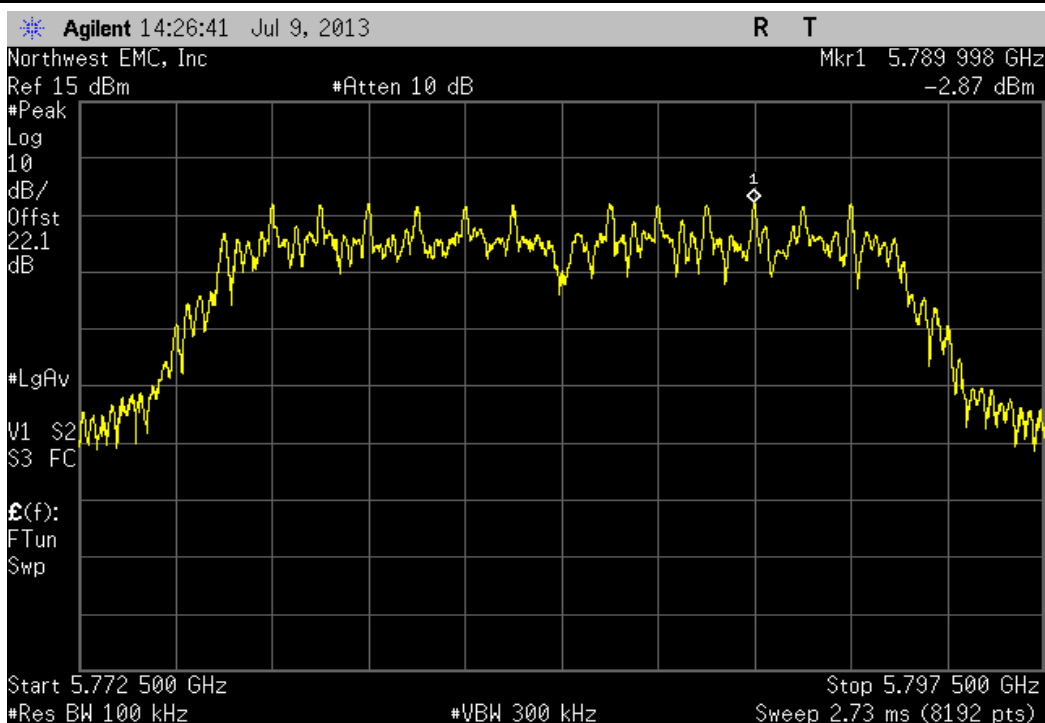
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -44.06 dBc | ≤ -20 dBc | Pass   |  |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz |  |  |            |           |        |  |
|------------------------------------------------------------------------------------|--|--|------------|-----------|--------|--|
| Frequency Range                                                                    |  |  | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                    |  |  | -33.99 dBc | ≤ -20 dBc | Pass   |  |

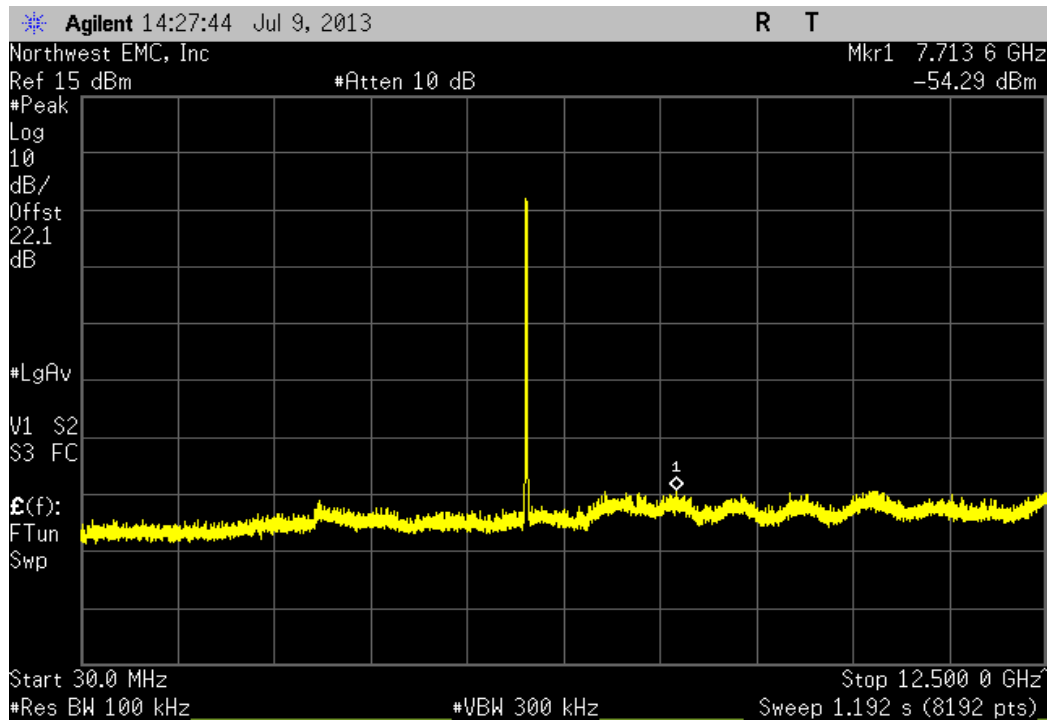


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |  |  |       |       |        |  |
|------------------------------------------------------------------------------------|--|--|-------|-------|--------|--|
| Frequency Range                                                                    |  |  | Value | Limit | Result |  |
| Fundamental                                                                        |  |  | N/A   | N/A   | N/A    |  |

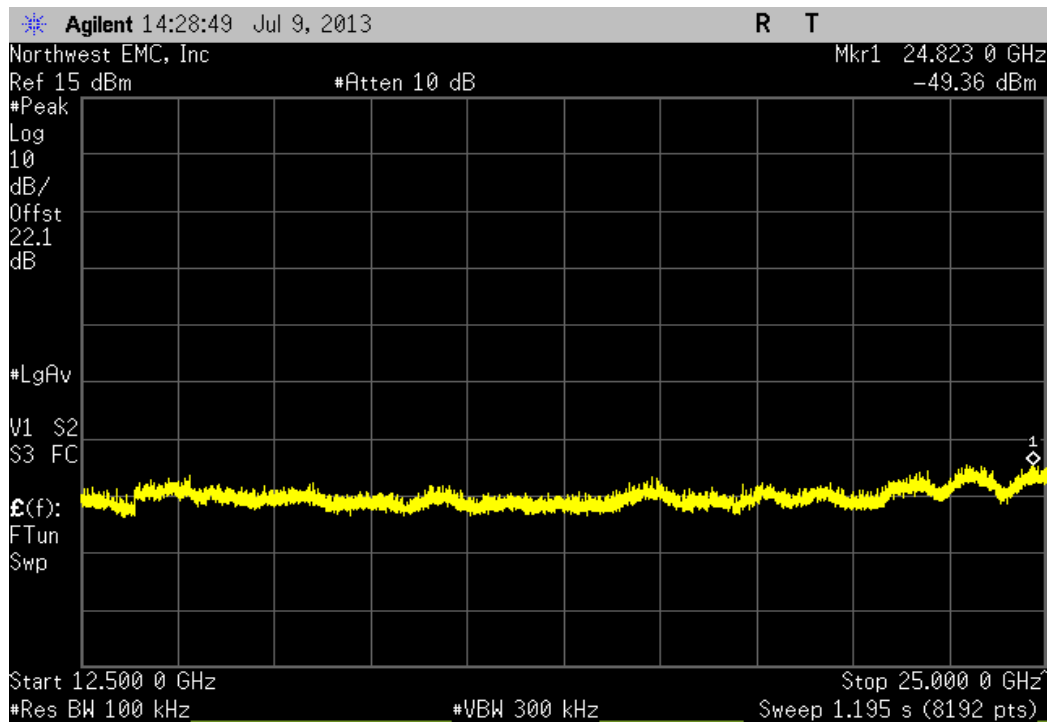




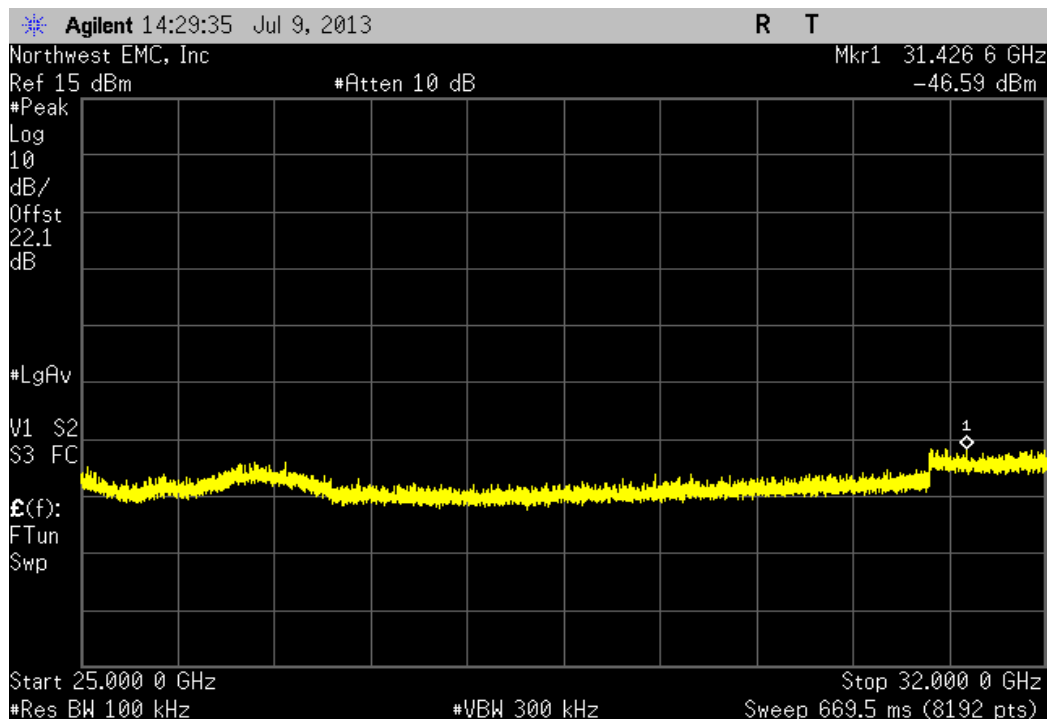
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                  | -51.42 dBc | ≤ -20 dBc | Pass   |  |



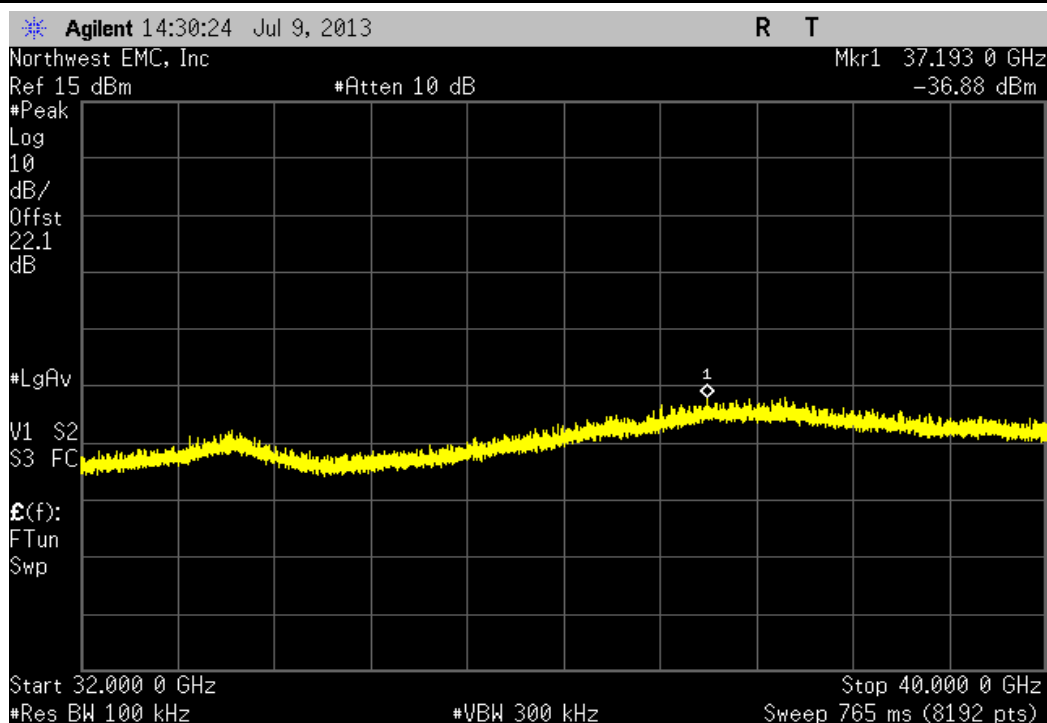
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -46.49 dBc | ≤ -20 dBc | Pass   |  |



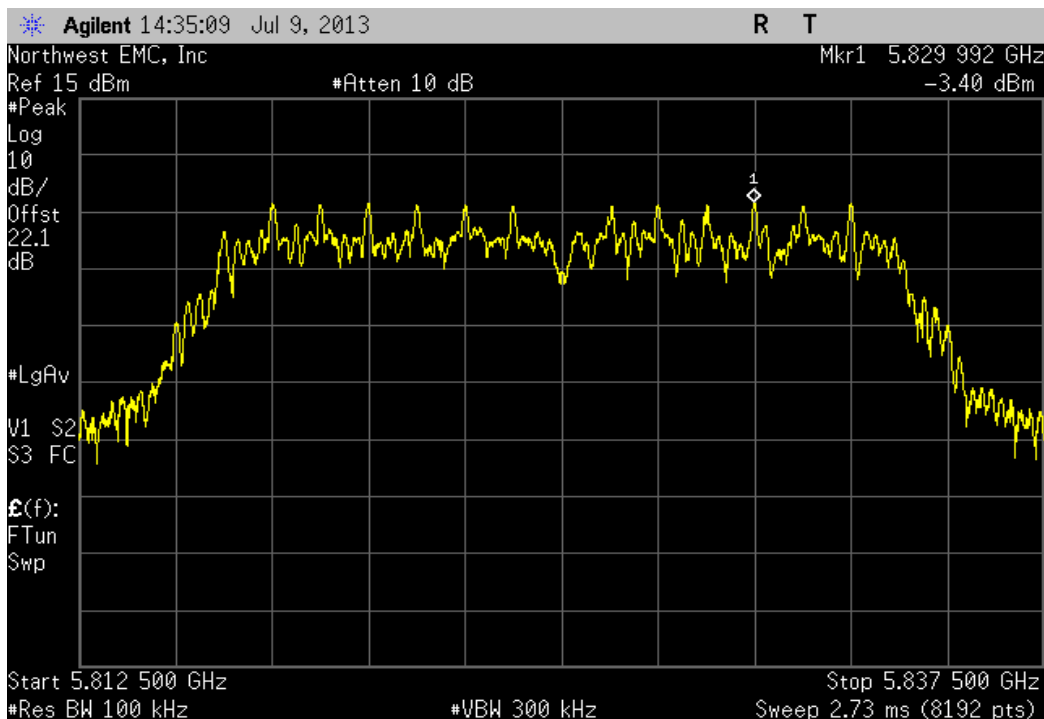
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -43.72 dBc | ≤ -20 dBc | Pass   |  |



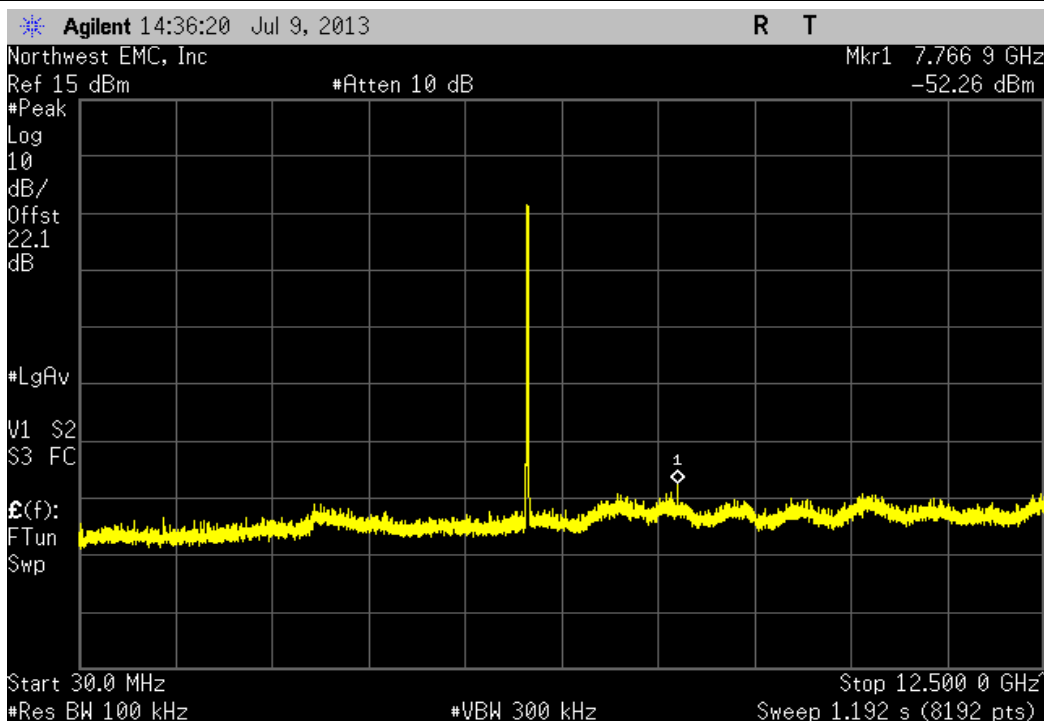
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                    | -34.01 dBc | ≤ -20 dBc | Pass   |  |



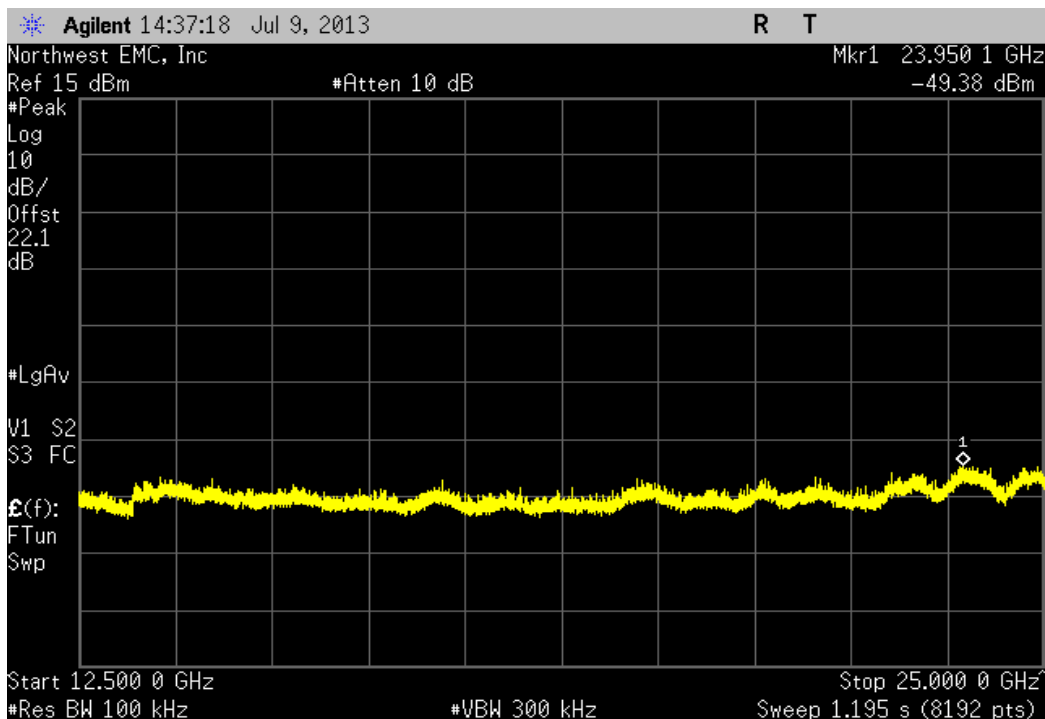
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |  |  |  |       |       |        |
|-------------------------------------------------------------------------------------|--|--|--|-------|-------|--------|
| Frequency Range                                                                     |  |  |  | Value | Limit | Result |
| Fundamental                                                                         |  |  |  | N/A   | N/A   | N/A    |



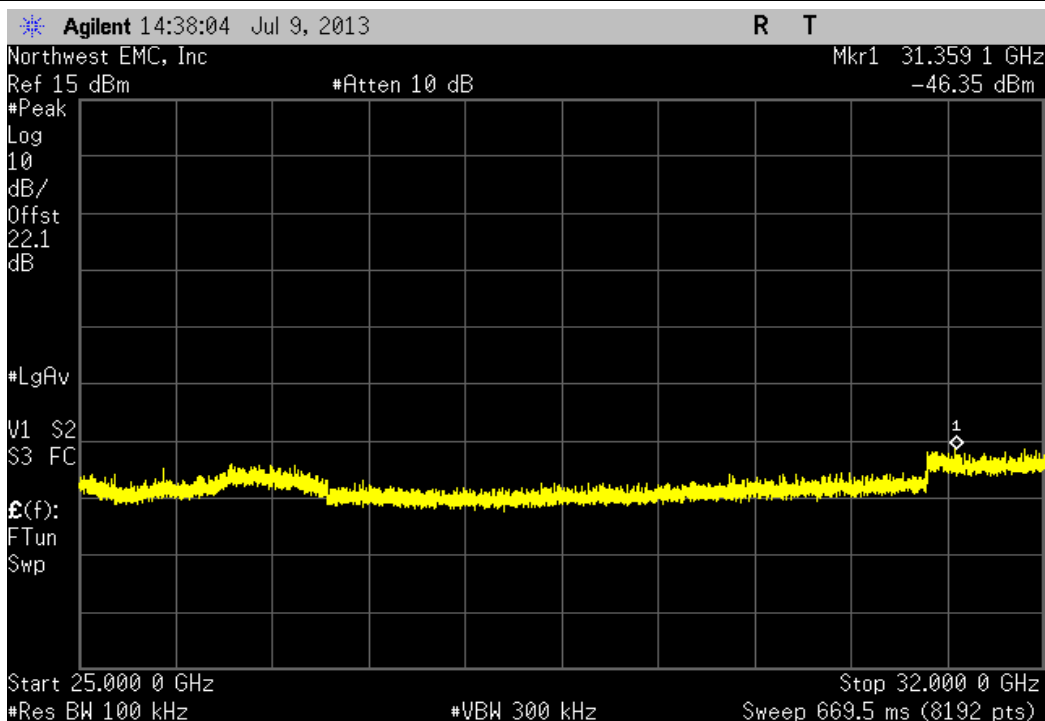
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |  |  |  |            |           |        |
|-------------------------------------------------------------------------------------|--|--|--|------------|-----------|--------|
| Frequency Range                                                                     |  |  |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                   |  |  |  | -48.86 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                   | -45.98 dBc | ≤ -20 dBc | Pass   |  |

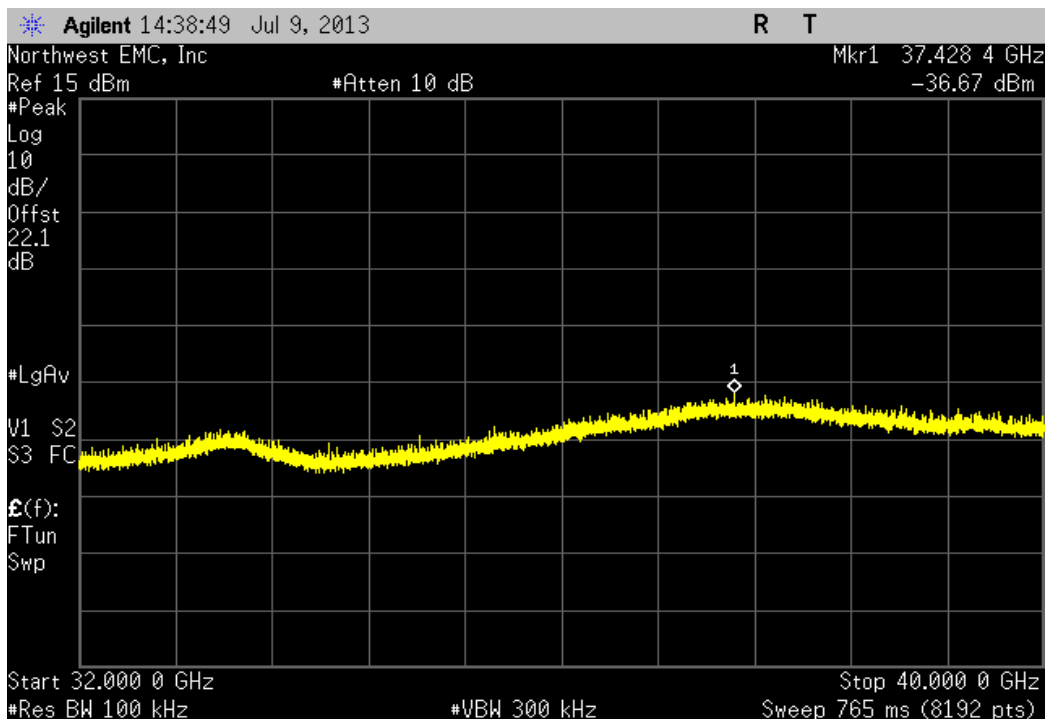


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                     | -42.95 dBc | ≤ -20 dBc | Pass   |  |



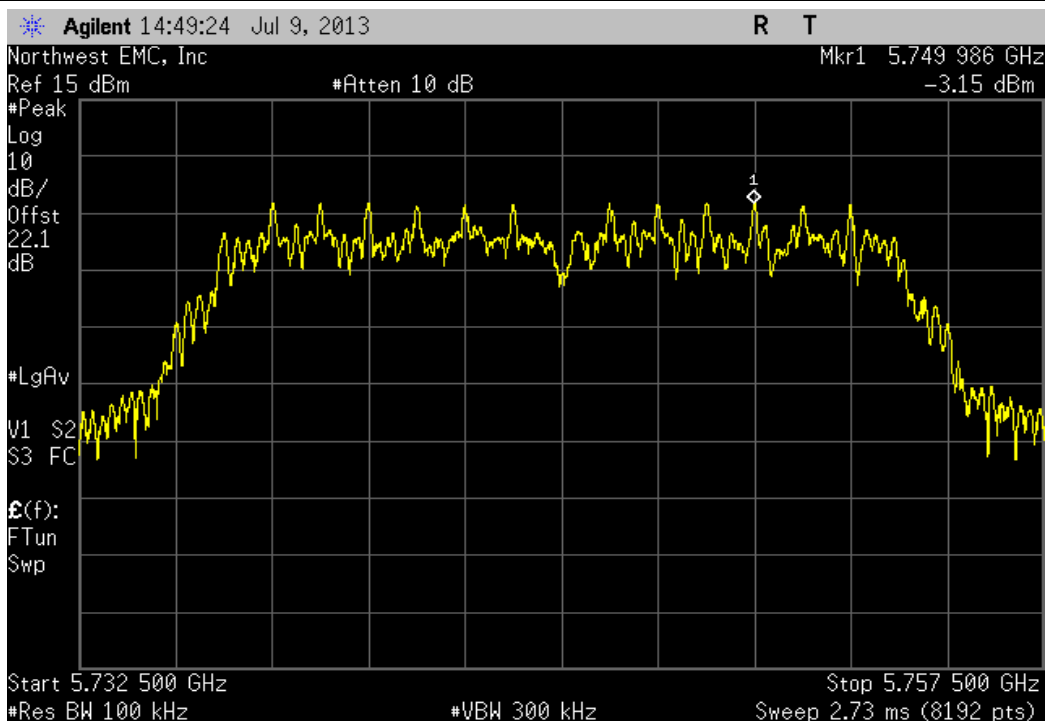
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

| Frequency Range | Value      | Limit     | Result |
|-----------------|------------|-----------|--------|
| 32 GHz - 40 GHz | -33.27 dBc | ≤ -20 dBc | Pass   |

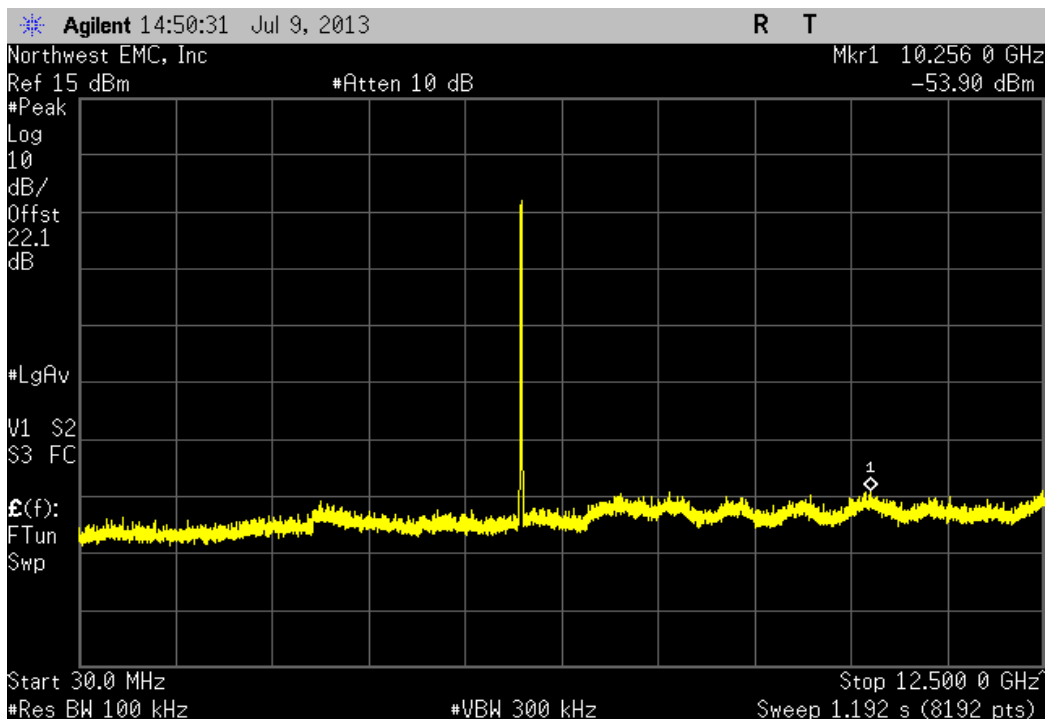


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

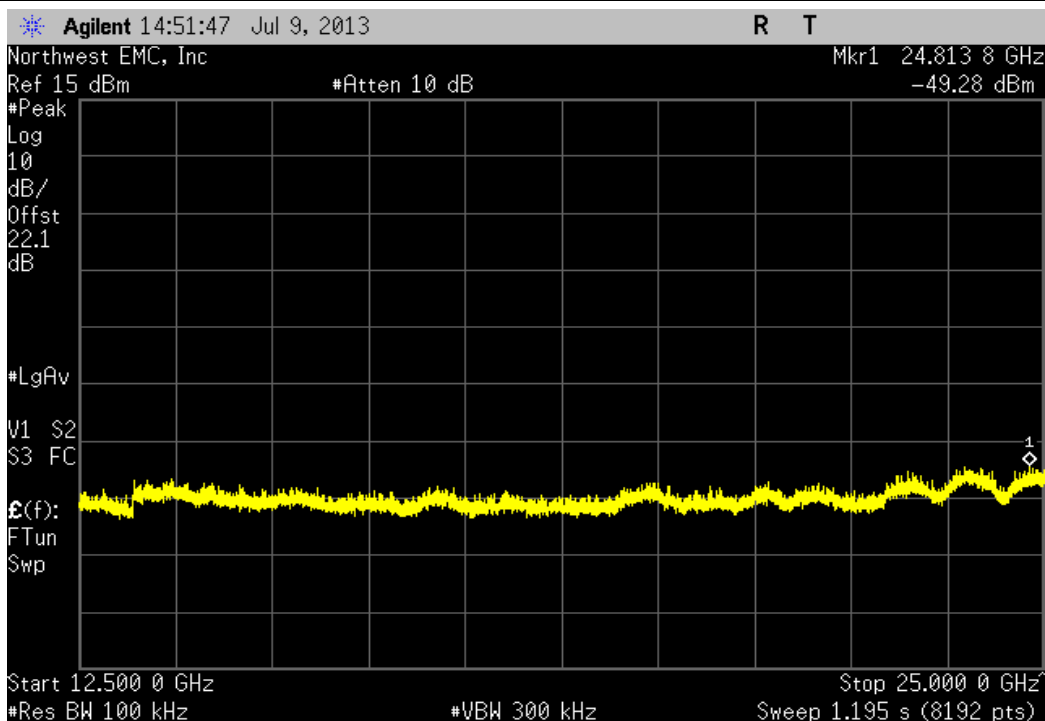
| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |



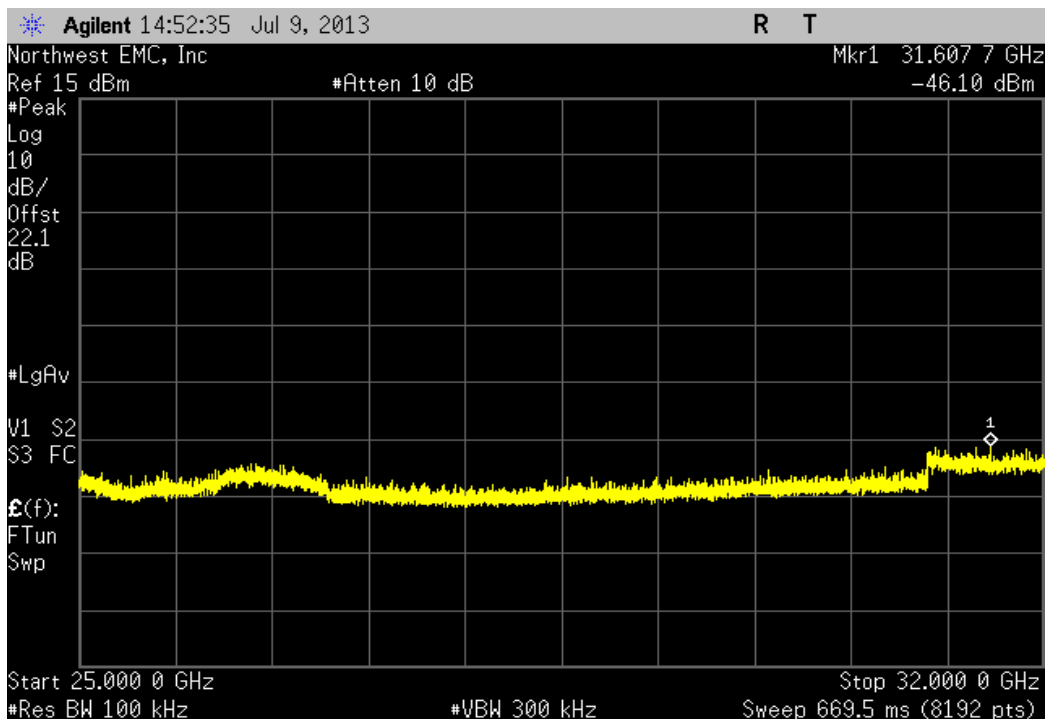
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                  | -50.75 dBc | ≤ -20 dBc | Pass   |  |



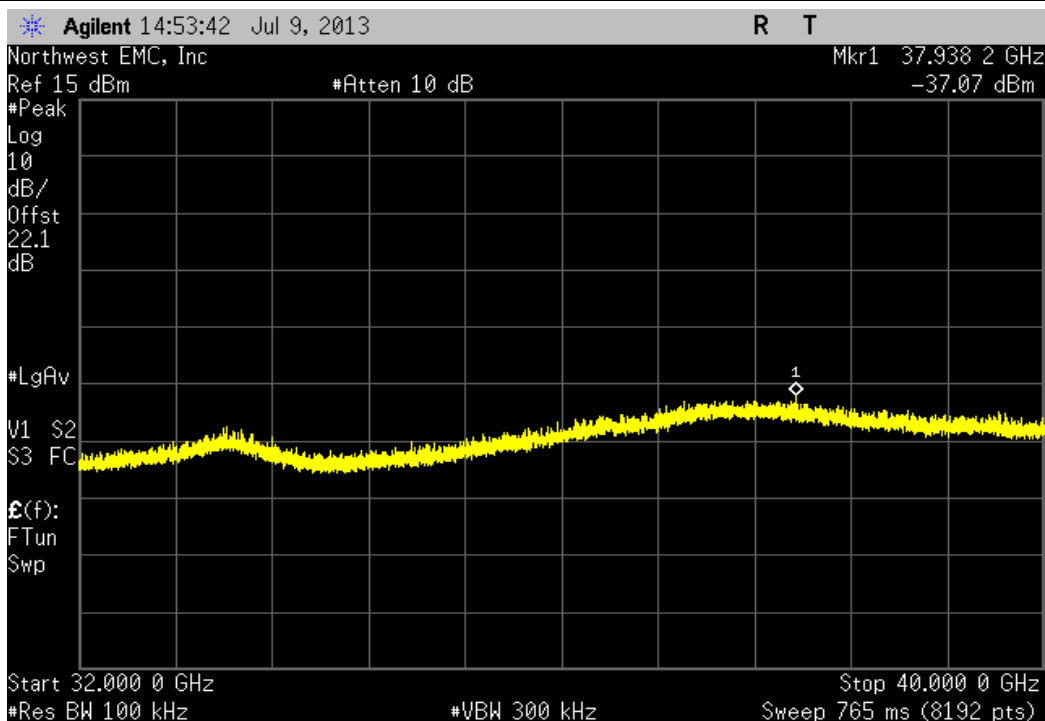
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -46.14 dBc | ≤ -20 dBc | Pass   |  |



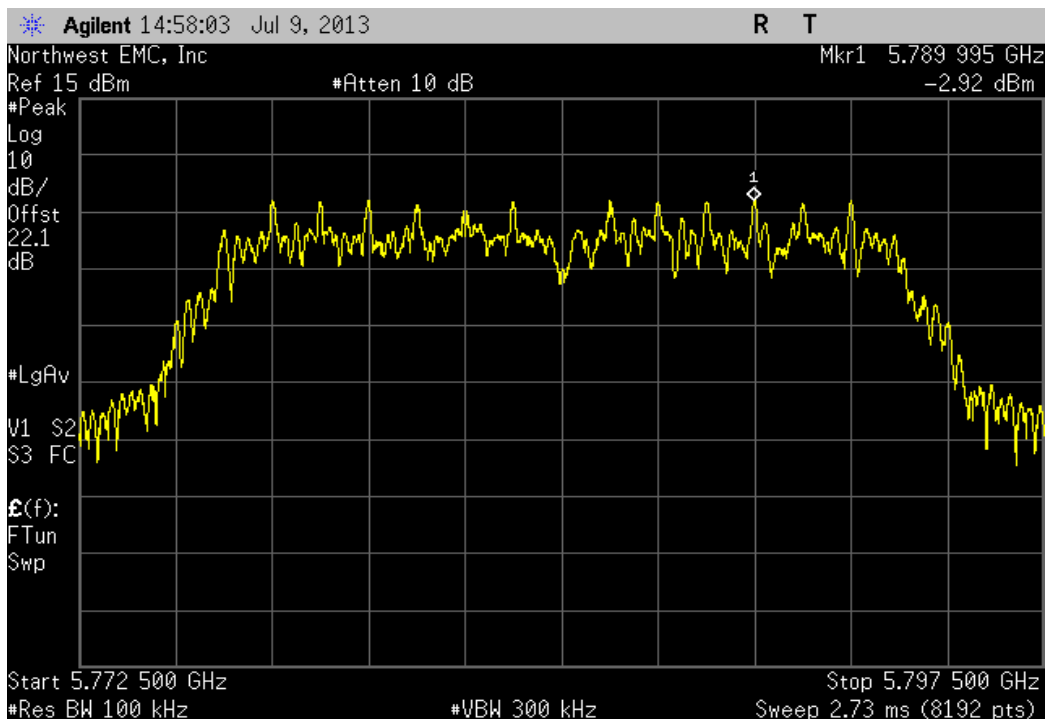
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |  |            |           |        |
|------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                    |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                    |  | -42.95 dBc | ≤ -20 dBc | Pass   |



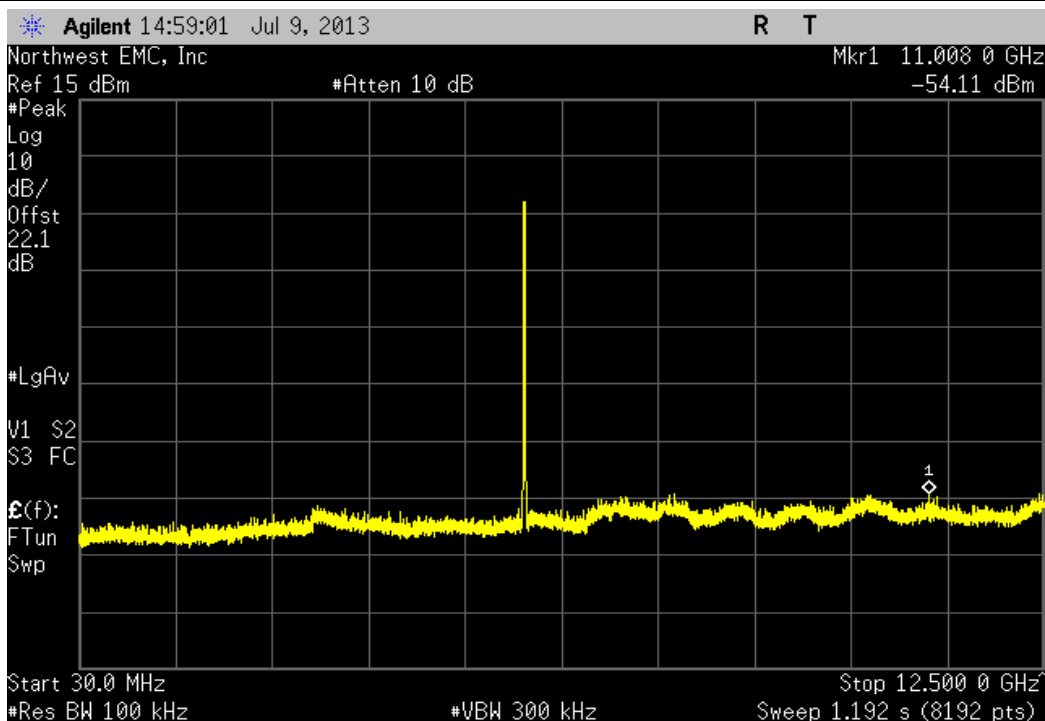
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz |  |            |           |        |
|------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                    |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                    |  | -33.92 dBc | ≤ -20 dBc | Pass   |



| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |  |       |       |        |
|------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                    |  | Value | Limit | Result |
| Fundamental                                                                        |  | N/A   | N/A   | N/A    |

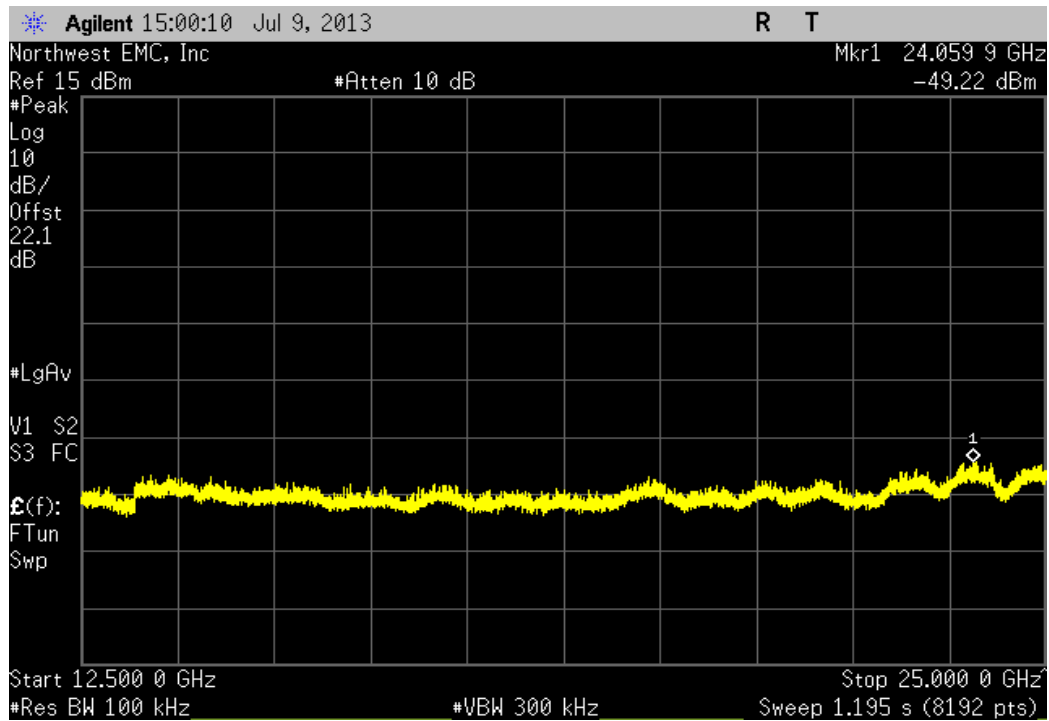


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |  |            |           |        |
|------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                    |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                  |  | -51.19 dBc | ≤ -20 dBc | Pass   |

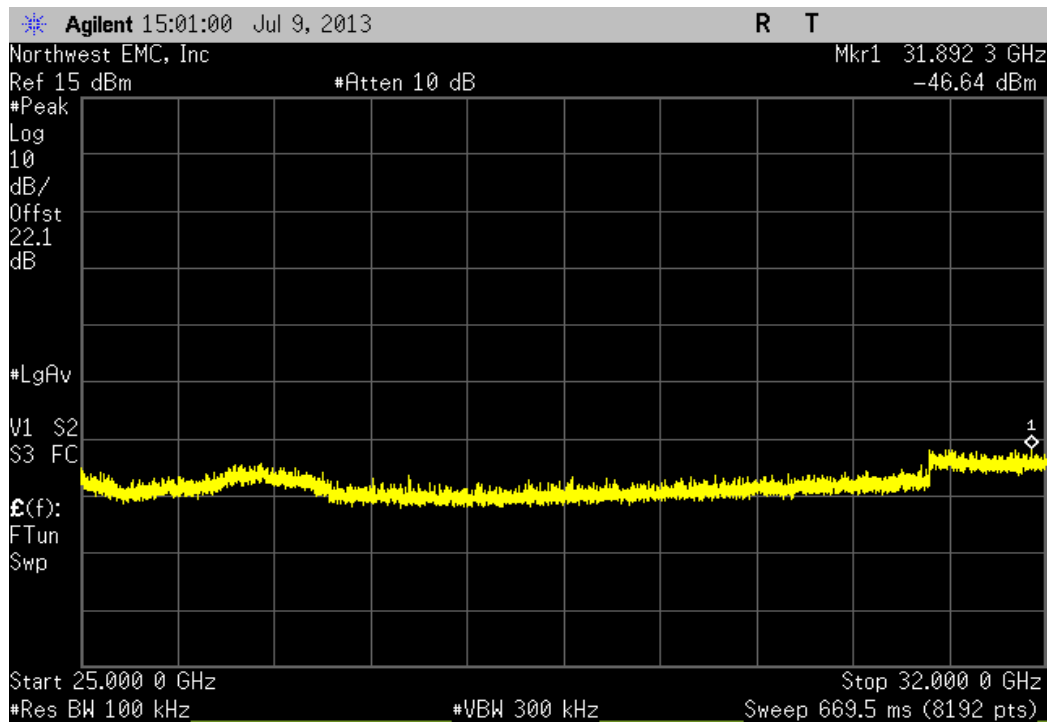




| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |           |           |        |  |
|------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                    | Value     | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                  | -46.3 dBc | ≤ -20 dBc | Pass   |  |

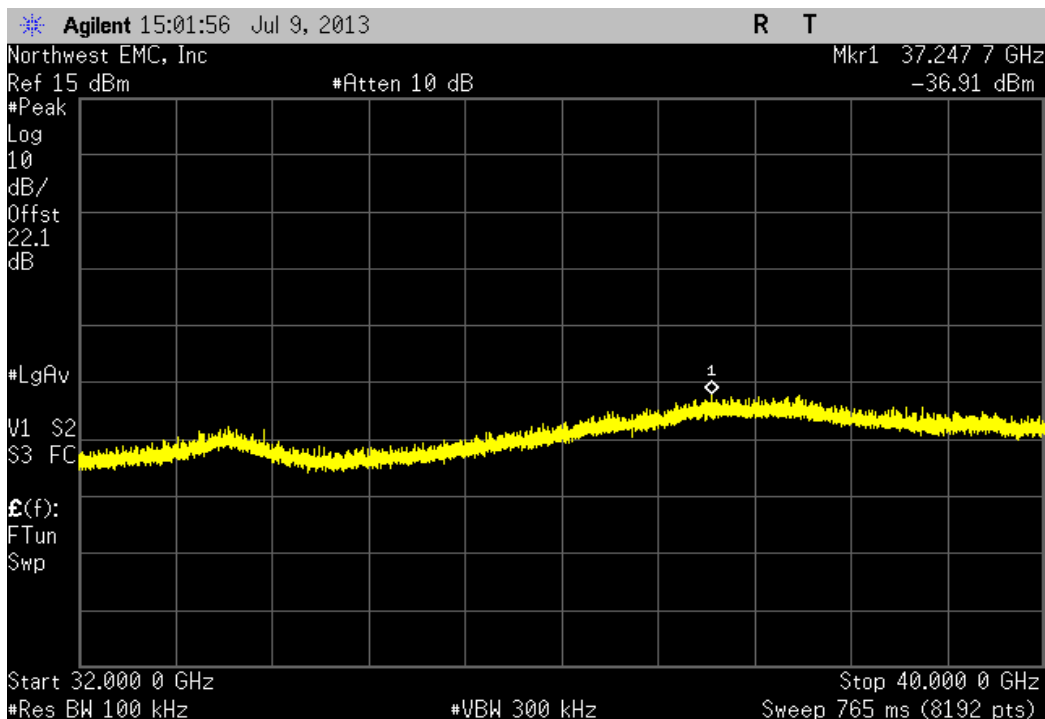


| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz |            |           |        |  |
|------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                    | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                    | -43.72 dBc | ≤ -20 dBc | Pass   |  |



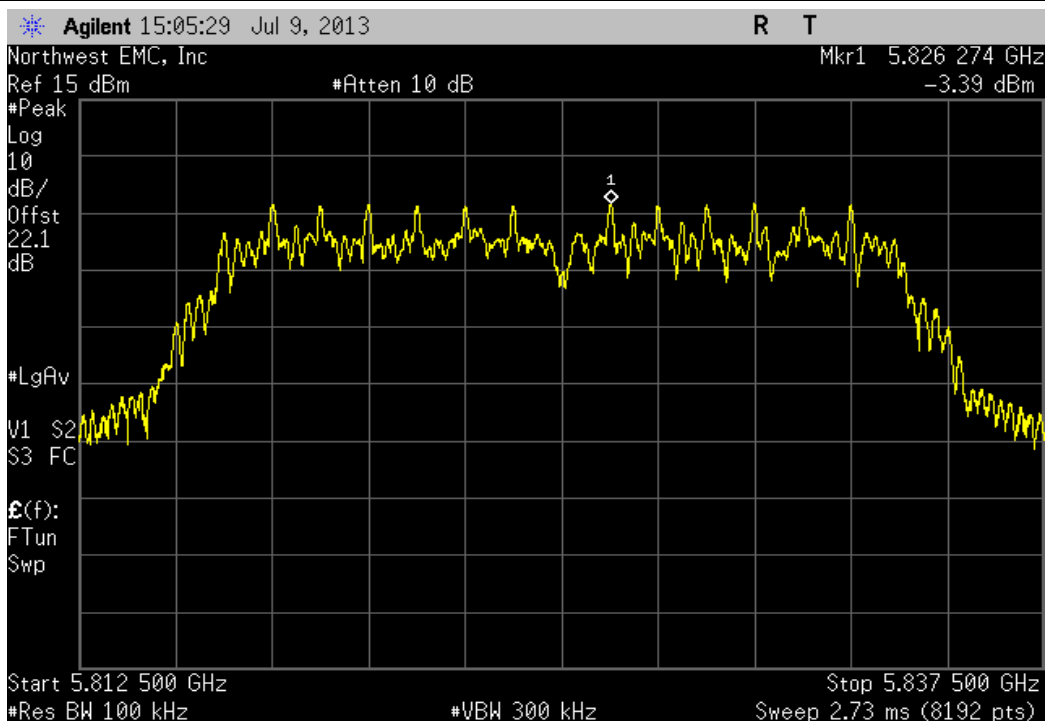
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

| Frequency Range | Value      | Limit     | Result |
|-----------------|------------|-----------|--------|
| 32 GHz - 40 GHz | -33.99 dBc | ≤ -20 dBc | Pass   |

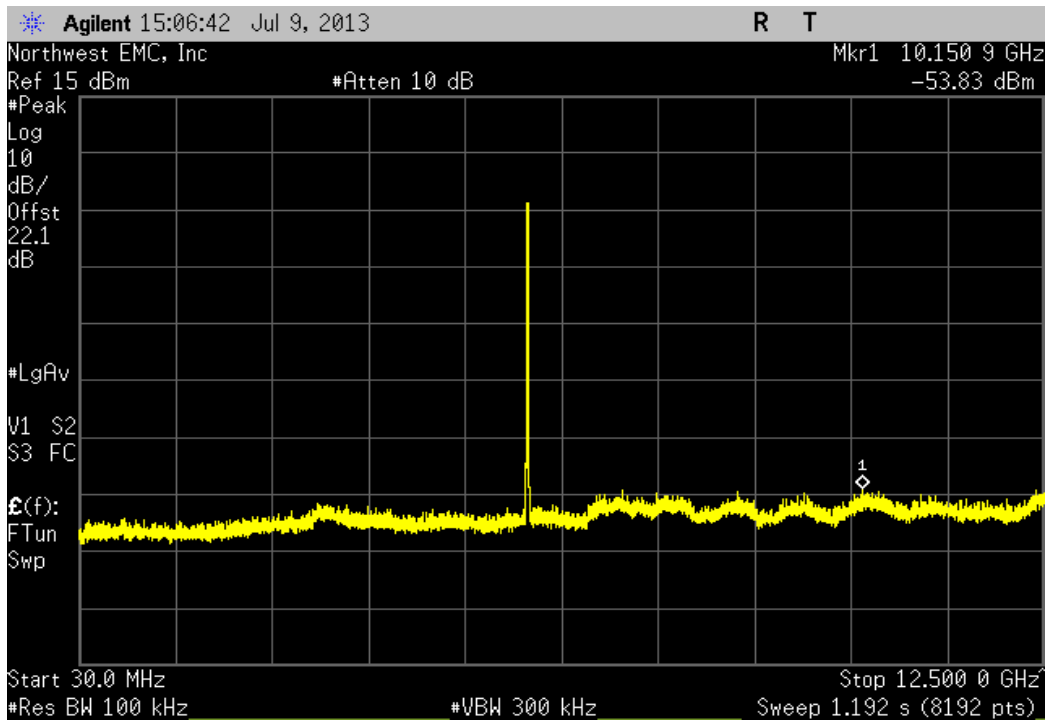


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

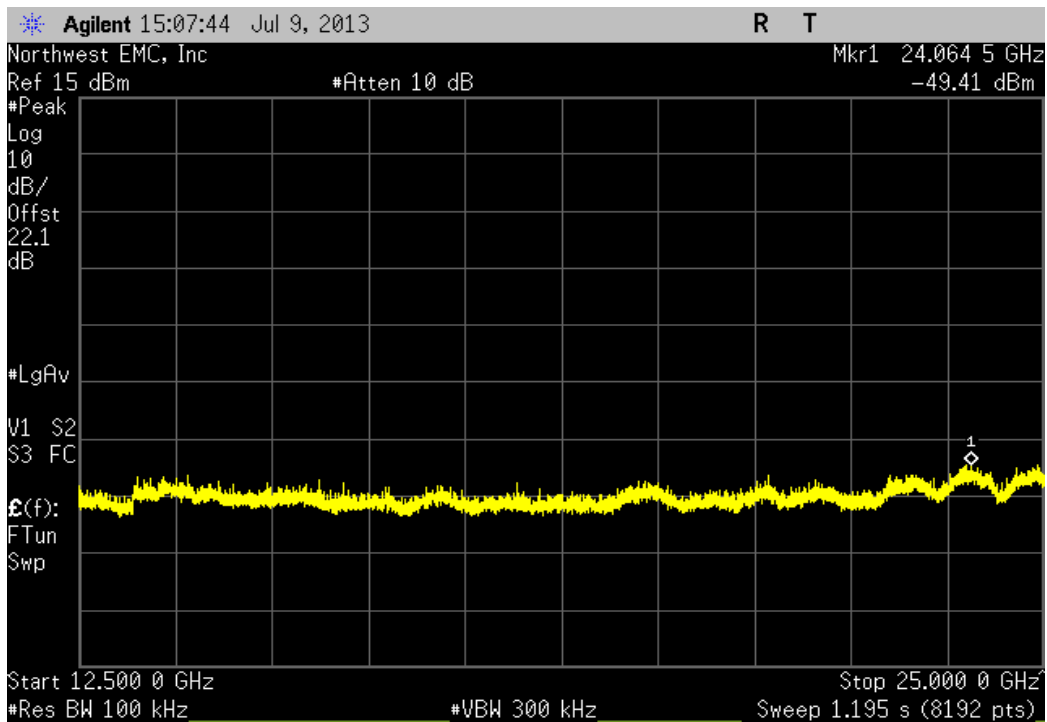
| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |



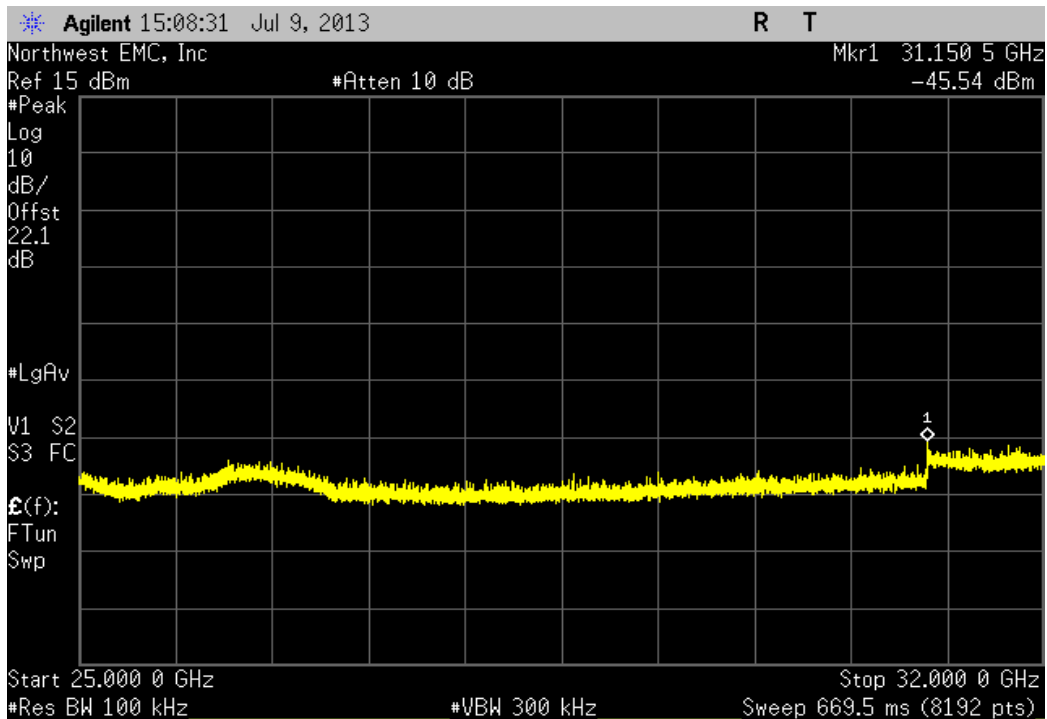
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                   | -50.44 dBc | ≤ -20 dBc | Pass   |  |



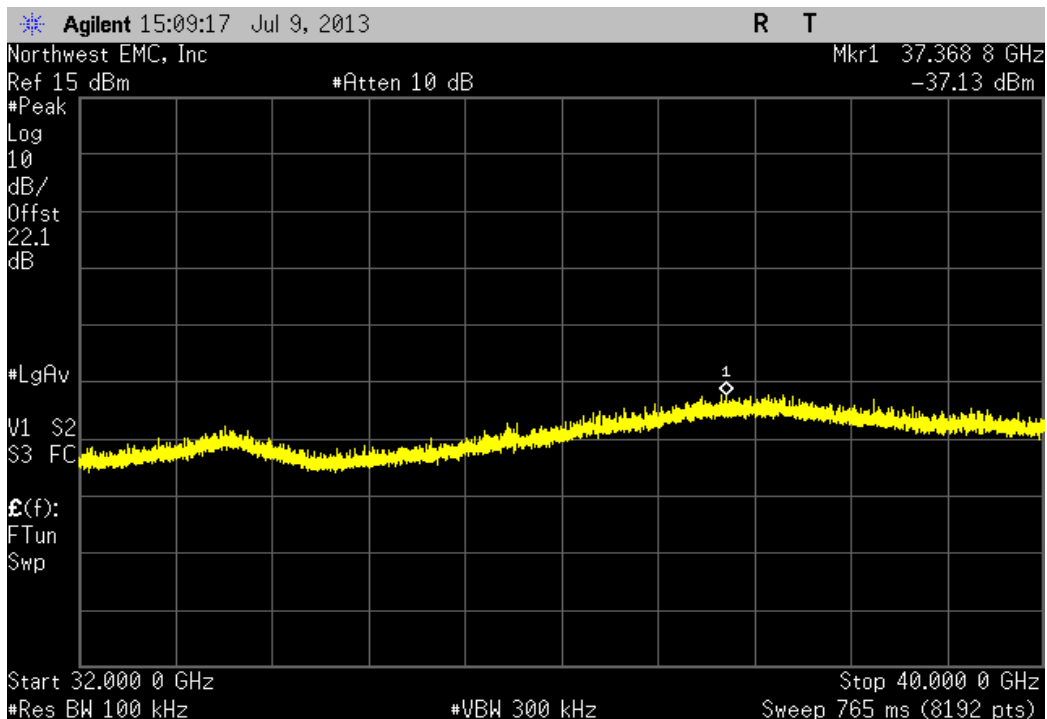
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |            |           |        |  |
|-------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                     | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                   | -46.02 dBc | ≤ -20 dBc | Pass   |  |



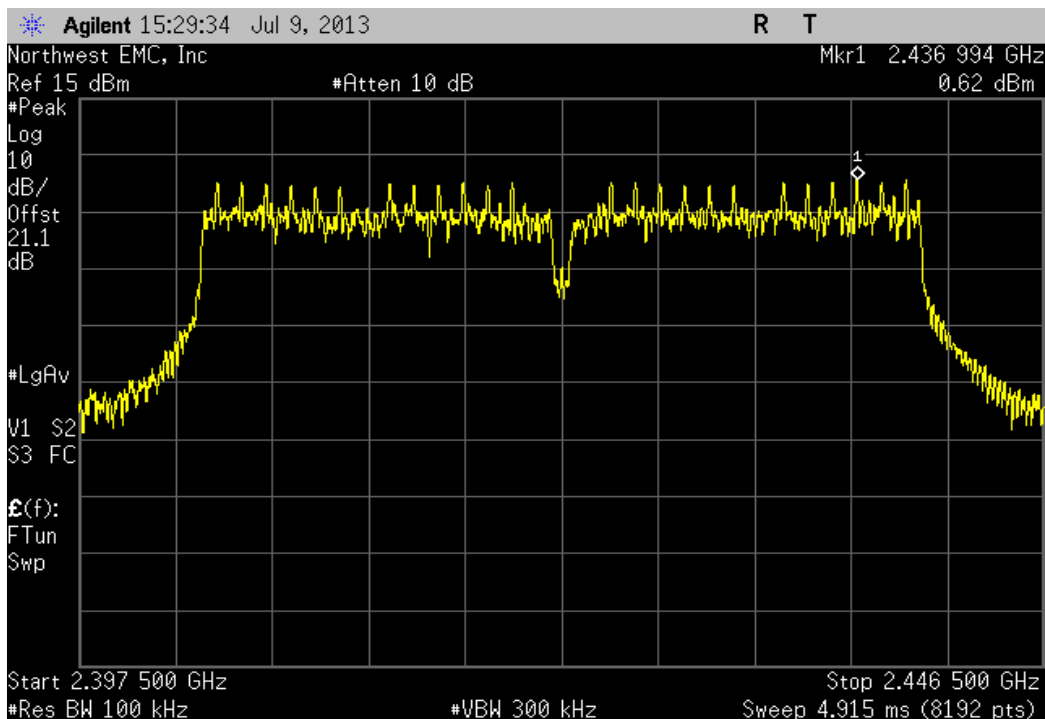
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |  |            |           |        |
|-------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                     |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                     |  | -42.15 dBc | ≤ -20 dBc | Pass   |



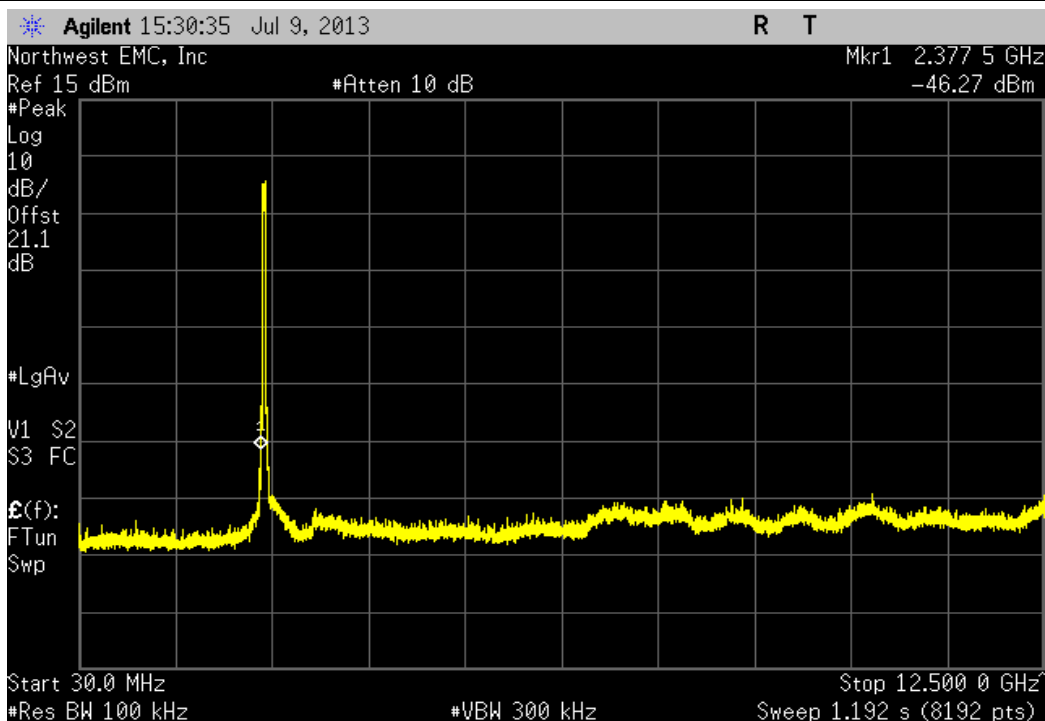
| 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz |  |            |           |        |
|-------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                     |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                     |  | -33.74 dBc | ≤ -20 dBc | Pass   |



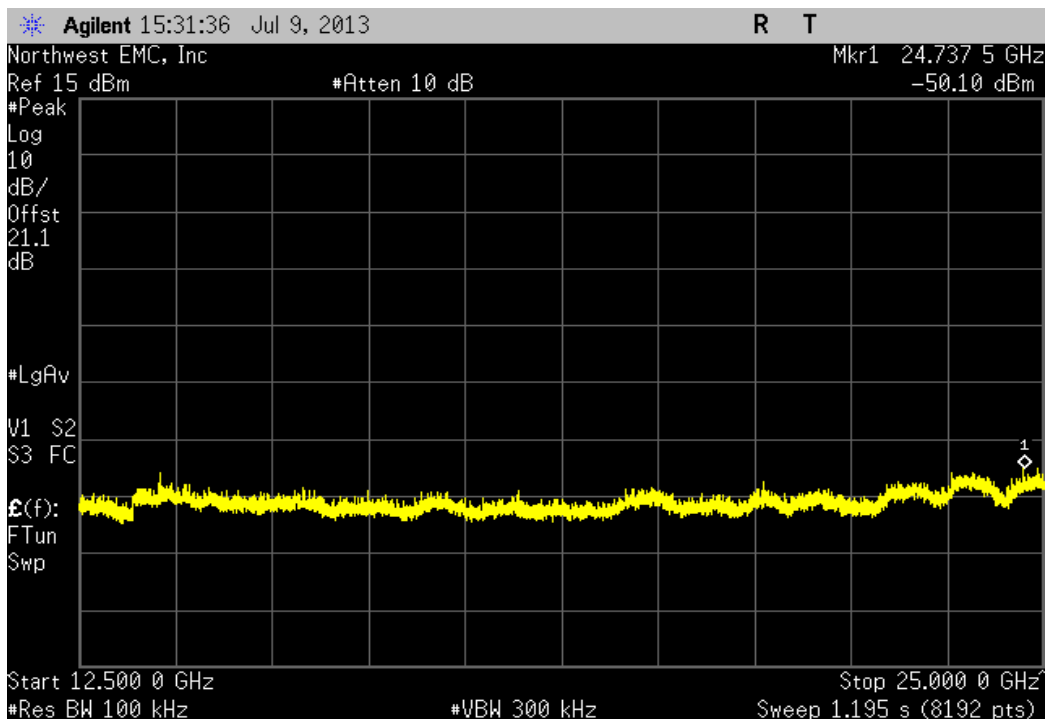
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



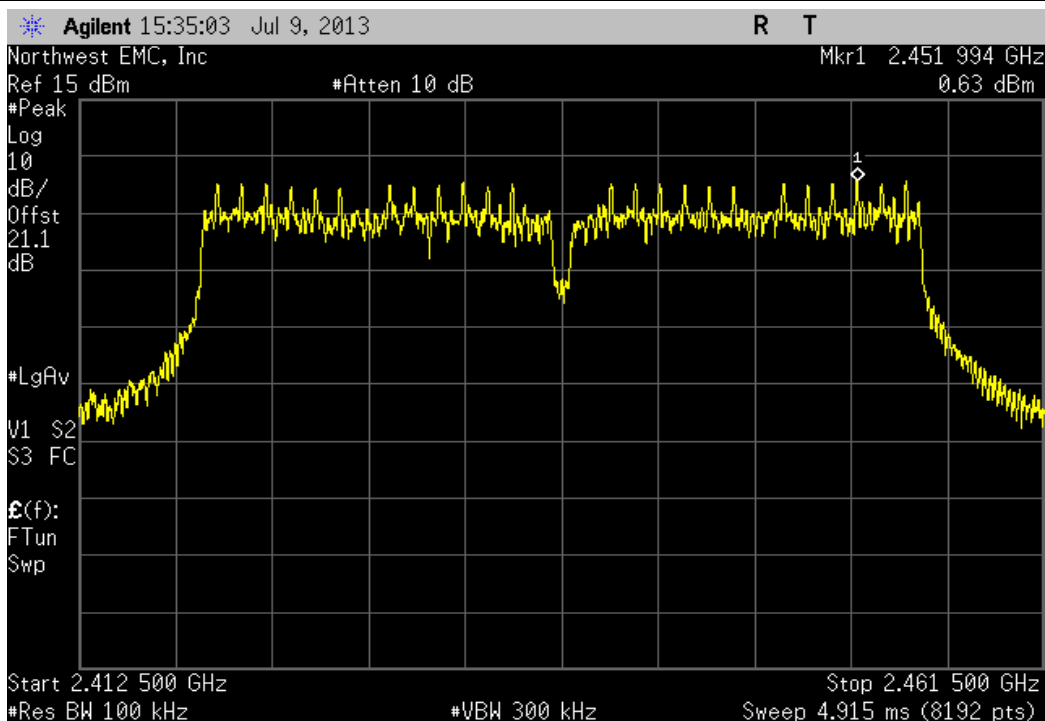
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -46.89 dBc | ≤ -20 dBc | Pass   |



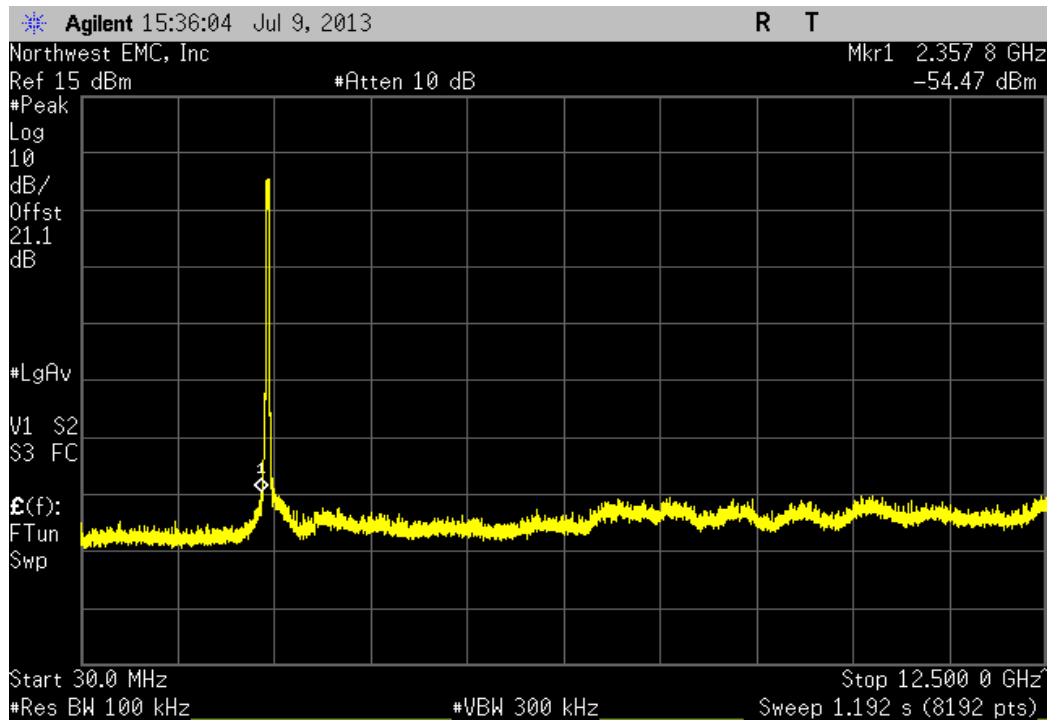
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -50.72 dBc | ≤ -20 dBc | Pass   |



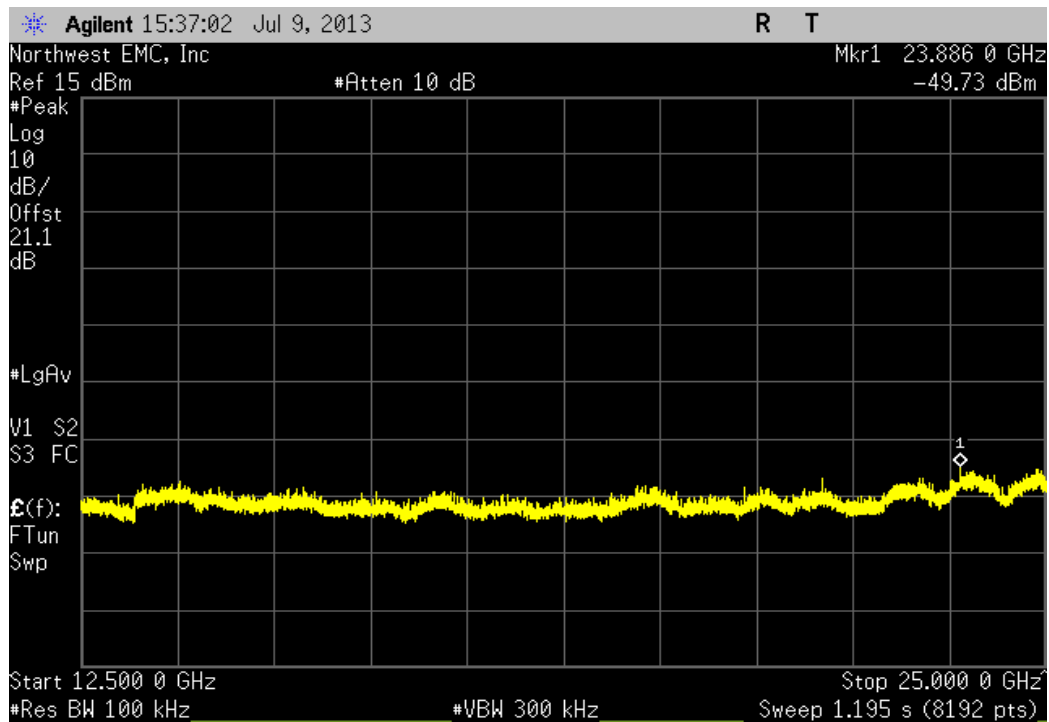
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



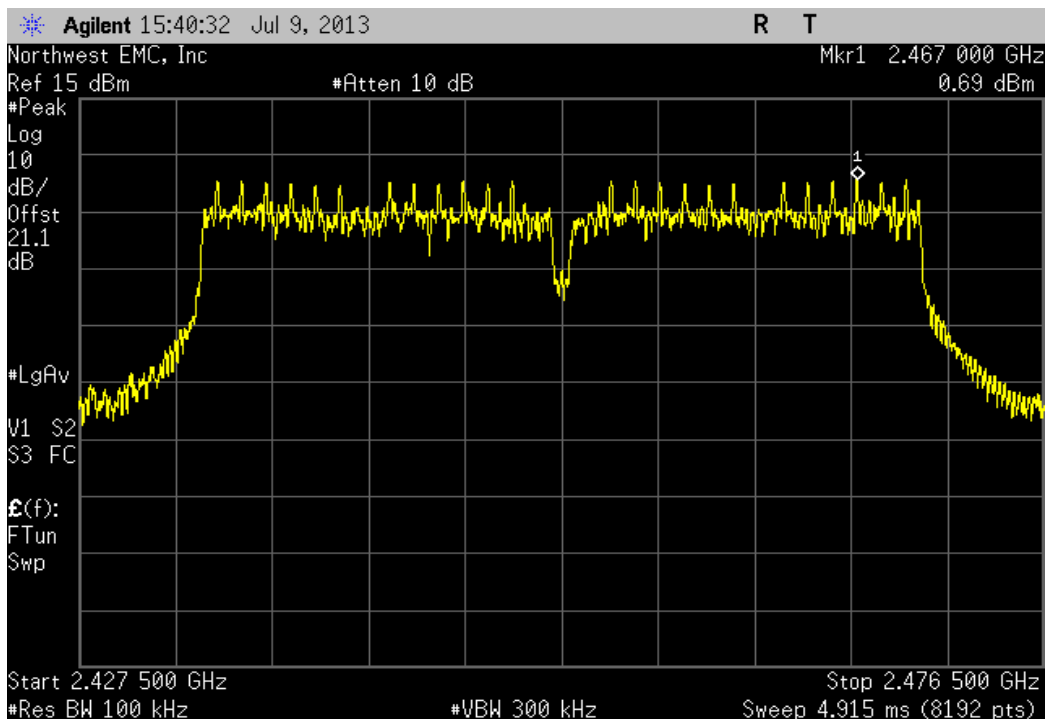
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz |           |           |        |  |
|-------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                               | Value     | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -55.1 dBc | ≤ -20 dBc | Pass   |  |



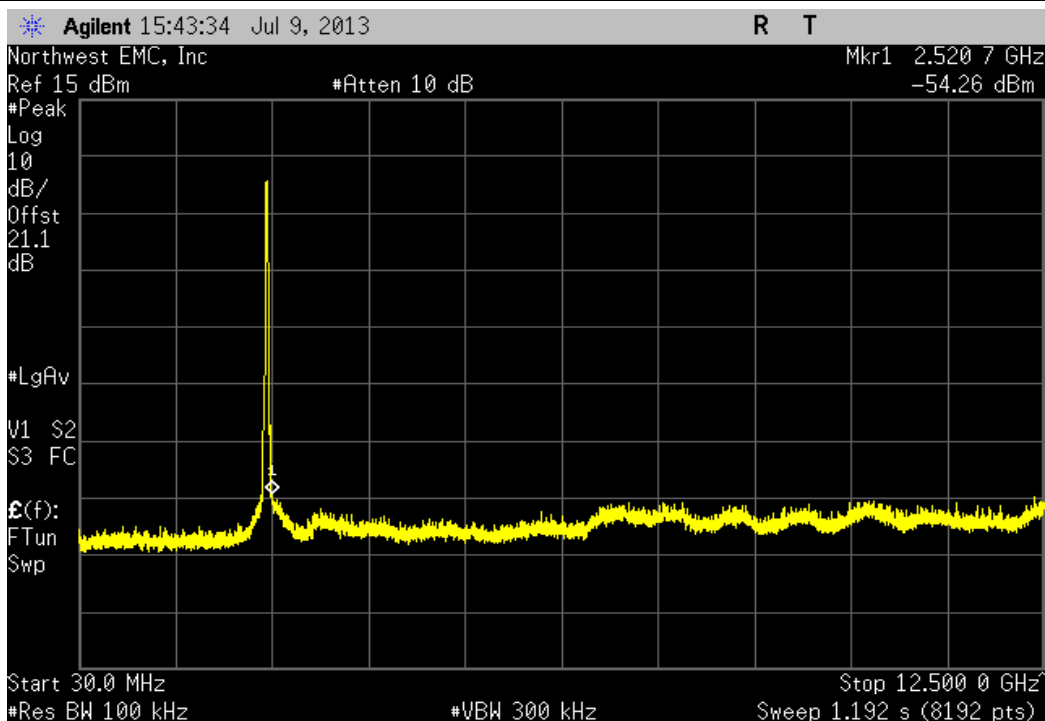
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -50.36 dBc | ≤ -20 dBc | Pass   |  |



| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |

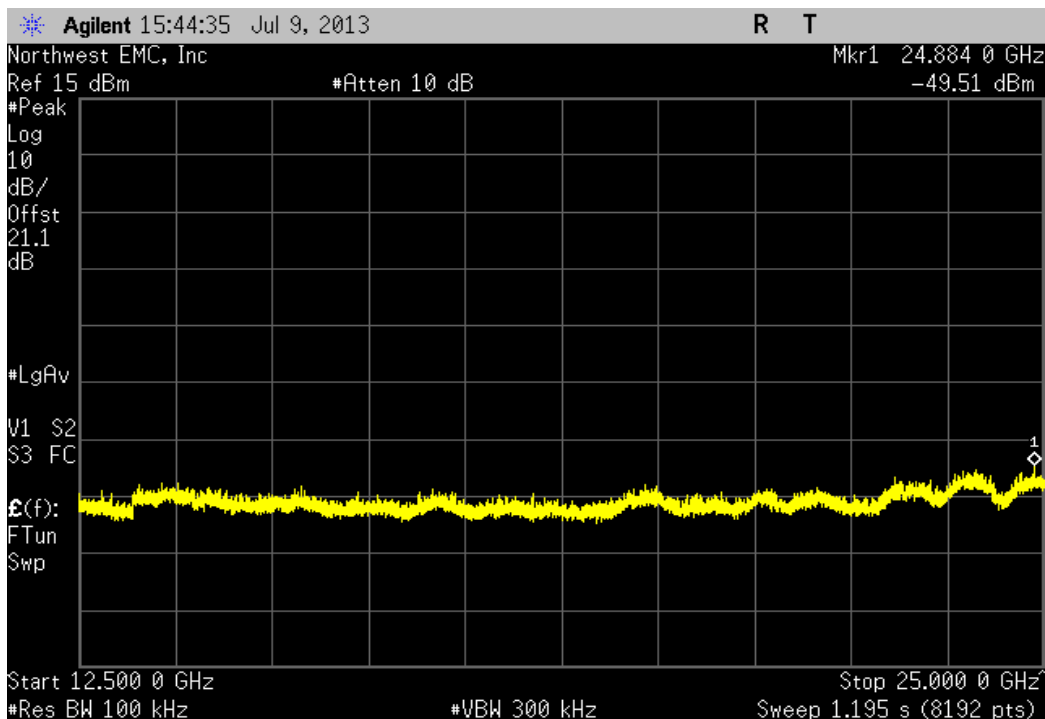


| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz |  |            |           |        |
|---------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                 |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                               |  | -54.95 dBc | ≤ -20 dBc | Pass   |

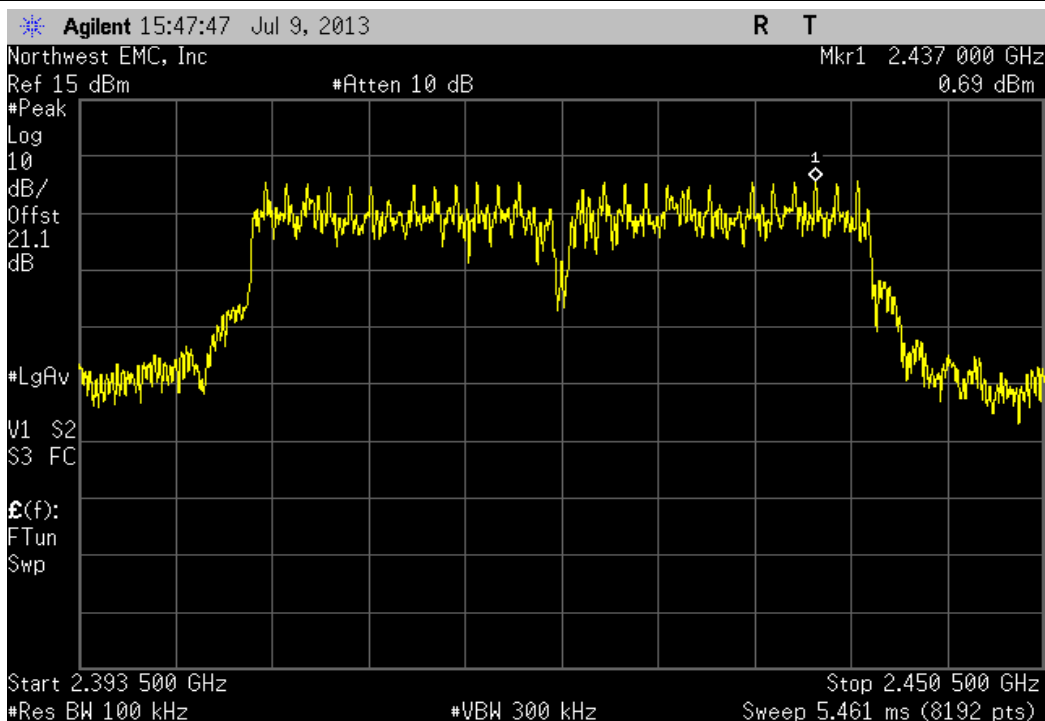




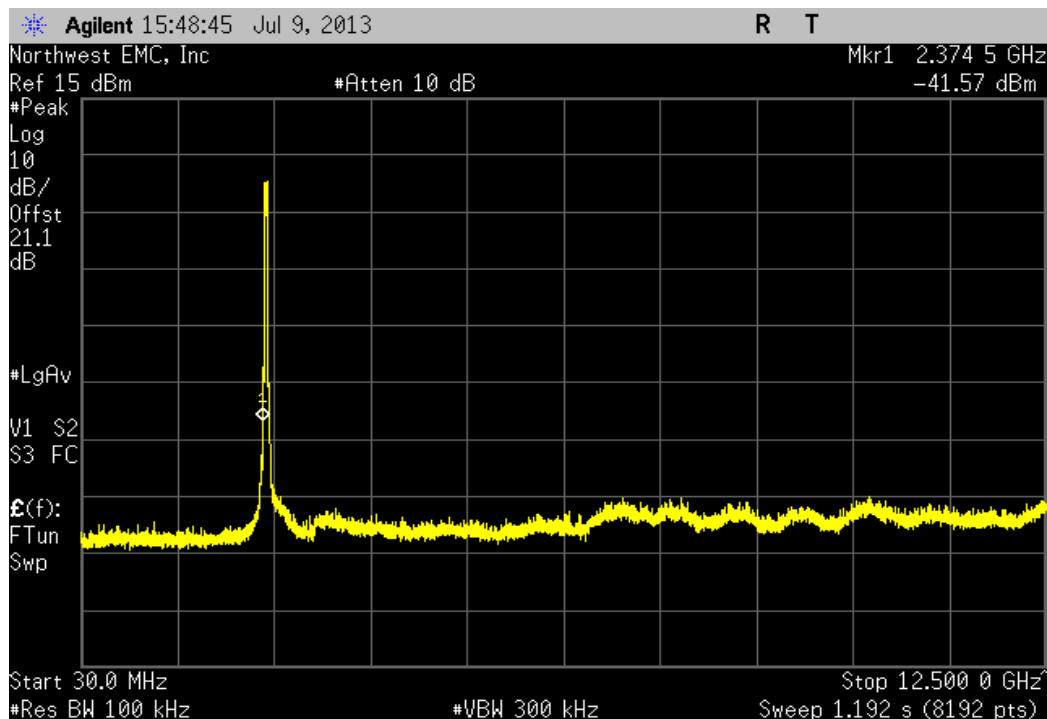
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz |  |           |           |        |
|---------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                                 |  | Value     | Limit     | Result |
| 12.5 GHz - 25 GHz                                                               |  | -50.2 dBc | ≤ -20 dBc | Pass   |



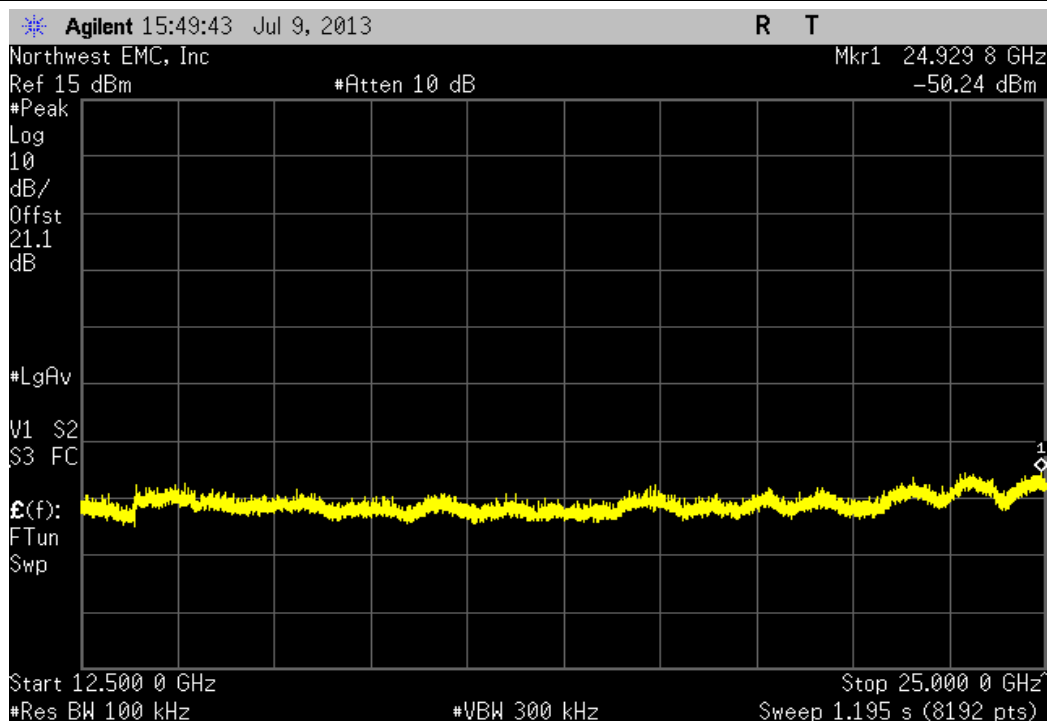
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



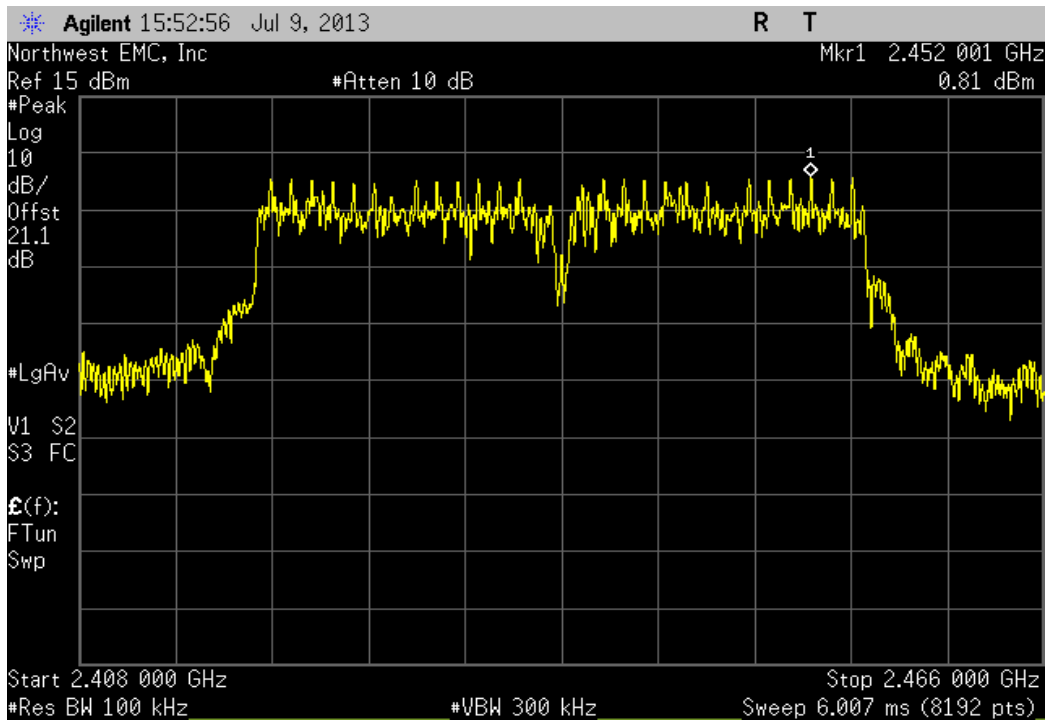
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                             | -42.26 dBc | ≤ -20 dBc | Pass   |  |



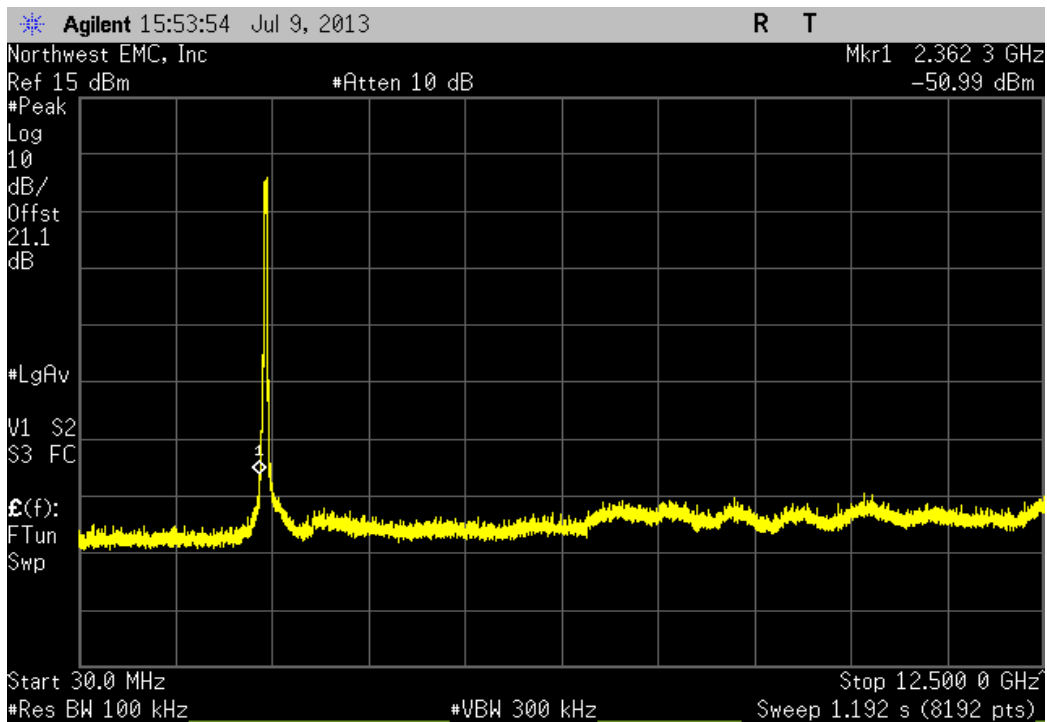
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz |            |           |        |  |
|-------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                               | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                             | -50.93 dBc | ≤ -20 dBc | Pass   |  |



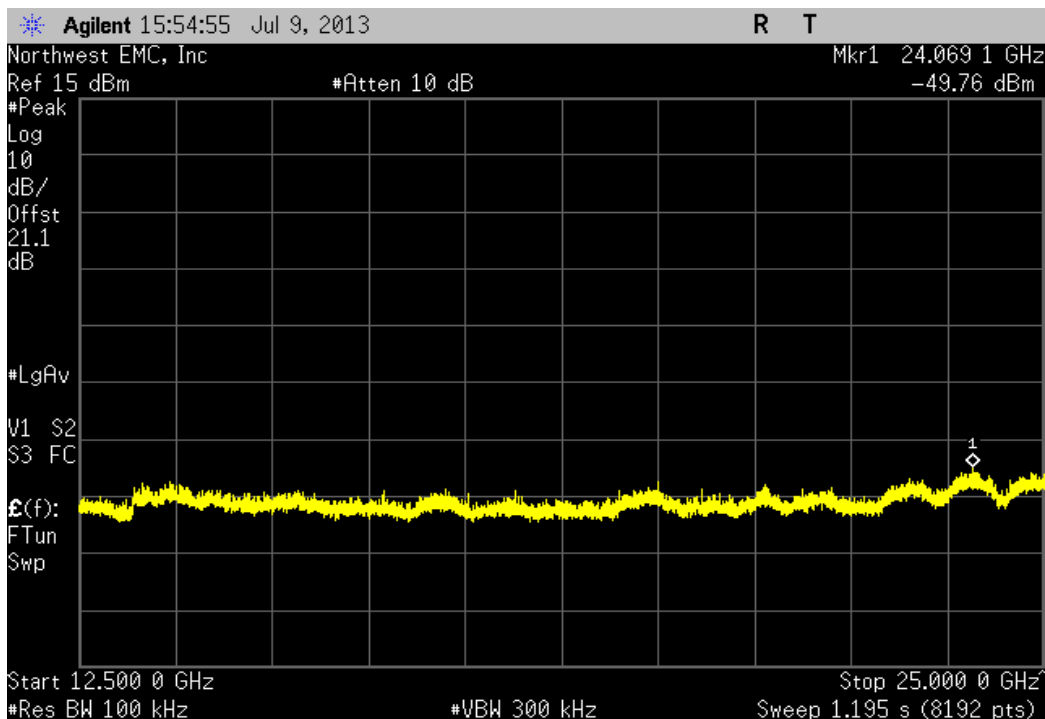
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz |  |       |       |        |
|-------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                               |  | Value | Limit | Result |
| Fundamental                                                                   |  | N/A   | N/A   | N/A    |



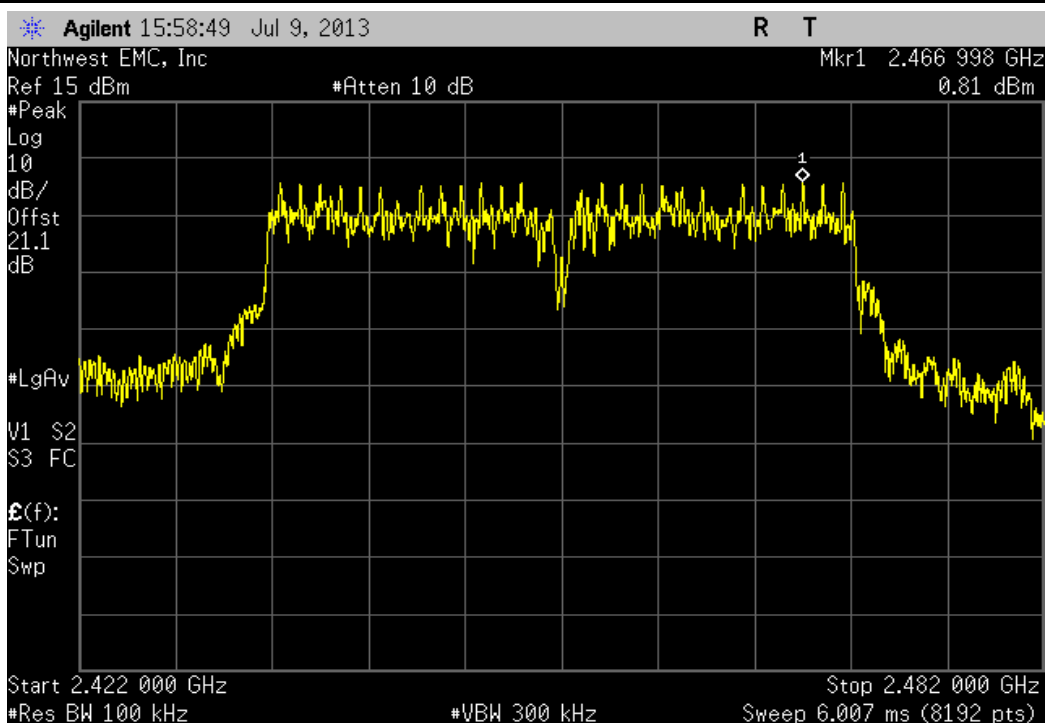
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz |  |           |           |        |
|-------------------------------------------------------------------------------|--|-----------|-----------|--------|
| Frequency Range                                                               |  | Value     | Limit     | Result |
| 30 MHz - 12.5 GHz                                                             |  | -51.8 dBc | ≤ -20 dBc | Pass   |



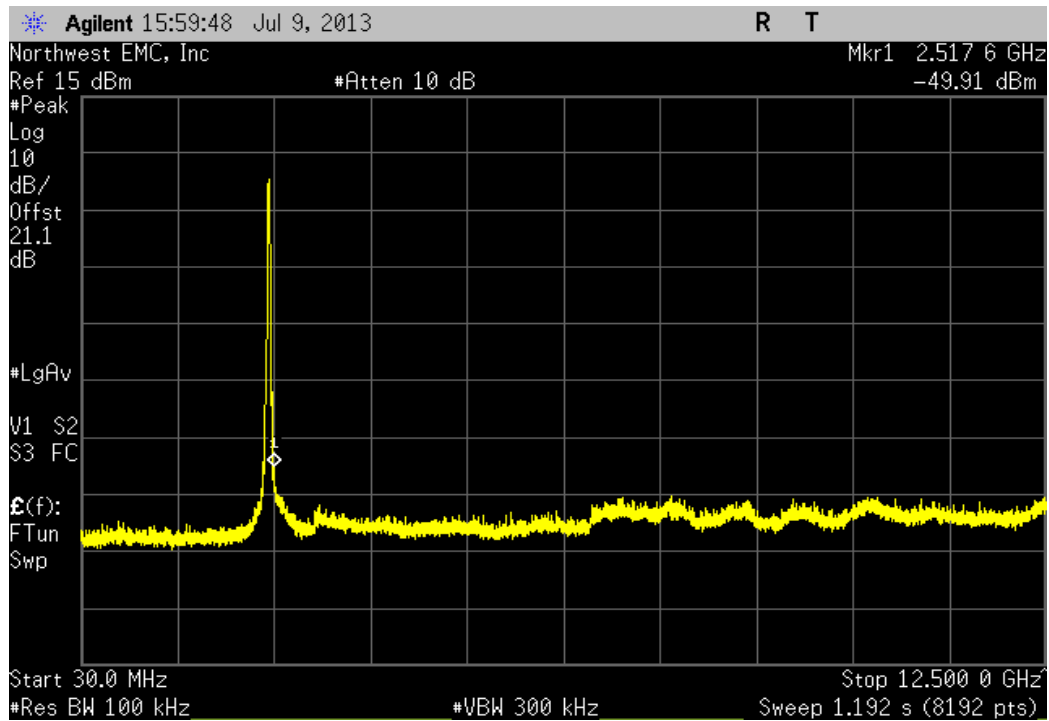
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz |  |            |           |        |
|-------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                               |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                             |  | -50.57 dBc | ≤ -20 dBc | Pass   |



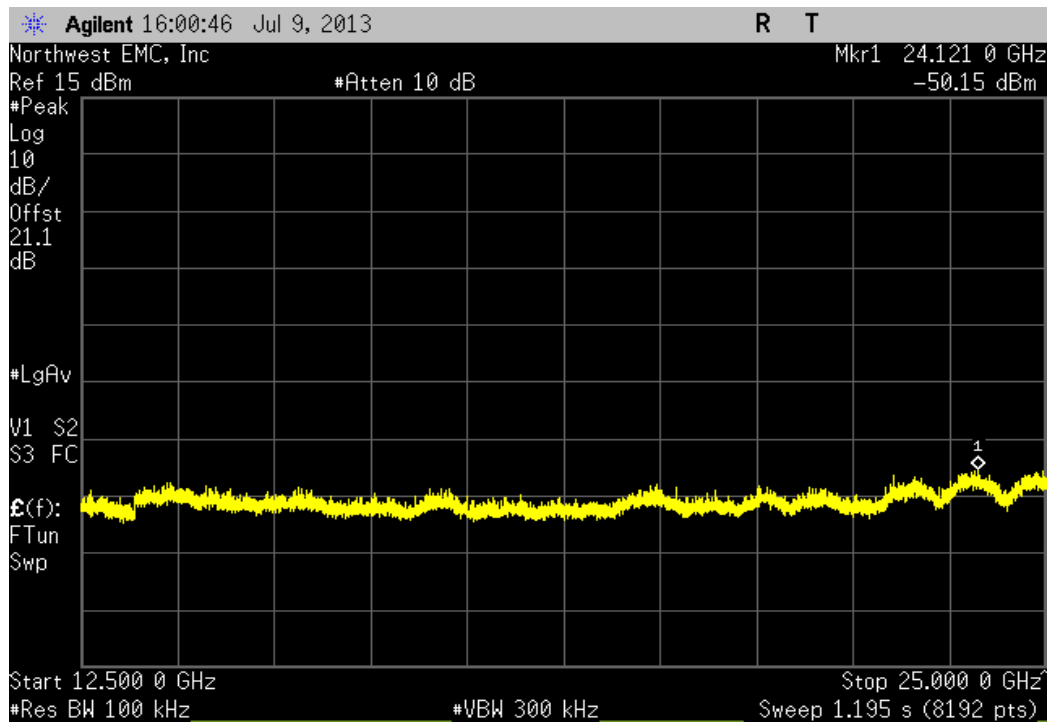
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz |  |       |       |        |
|---------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                 |  | Value | Limit | Result |
| Fundamental                                                                     |  | N/A   | N/A   | N/A    |



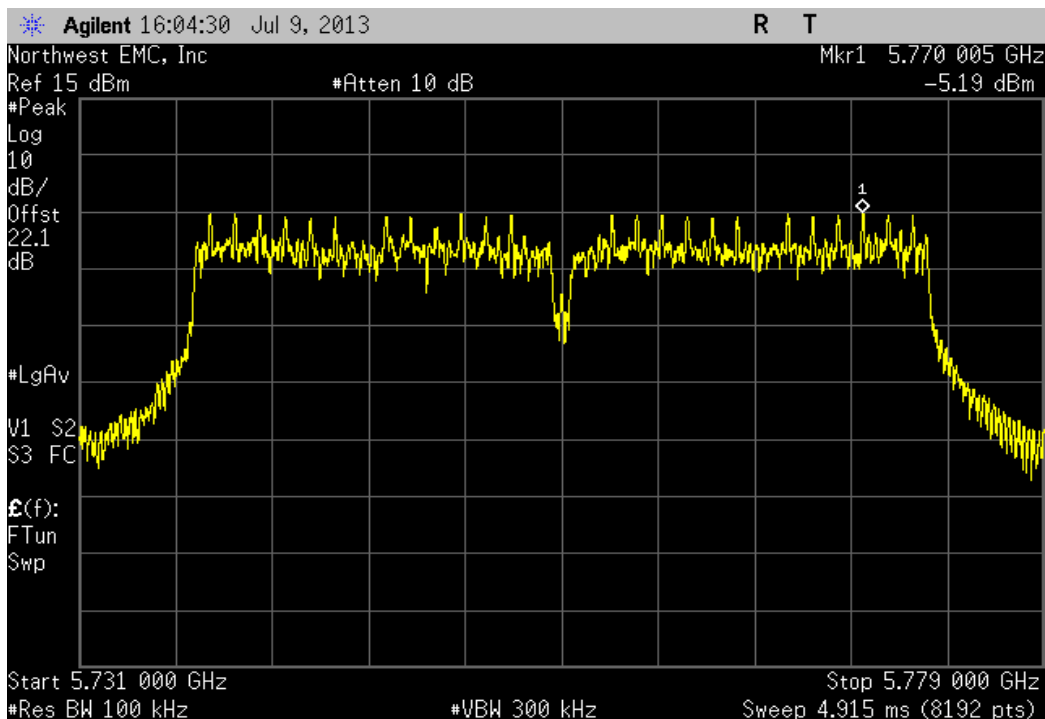
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                               | -50.72 dBc | ≤ -20 dBc | Pass   |  |



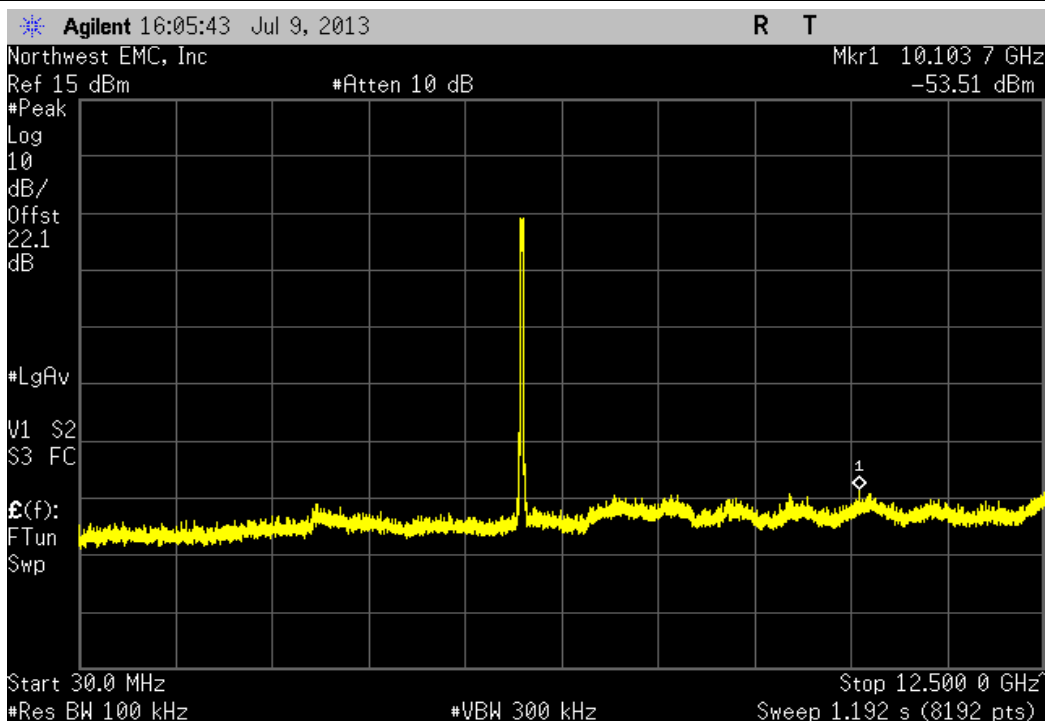
| 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz |            |           |        |  |
|---------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                 | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                               | -50.96 dBc | ≤ -20 dBc | Pass   |  |



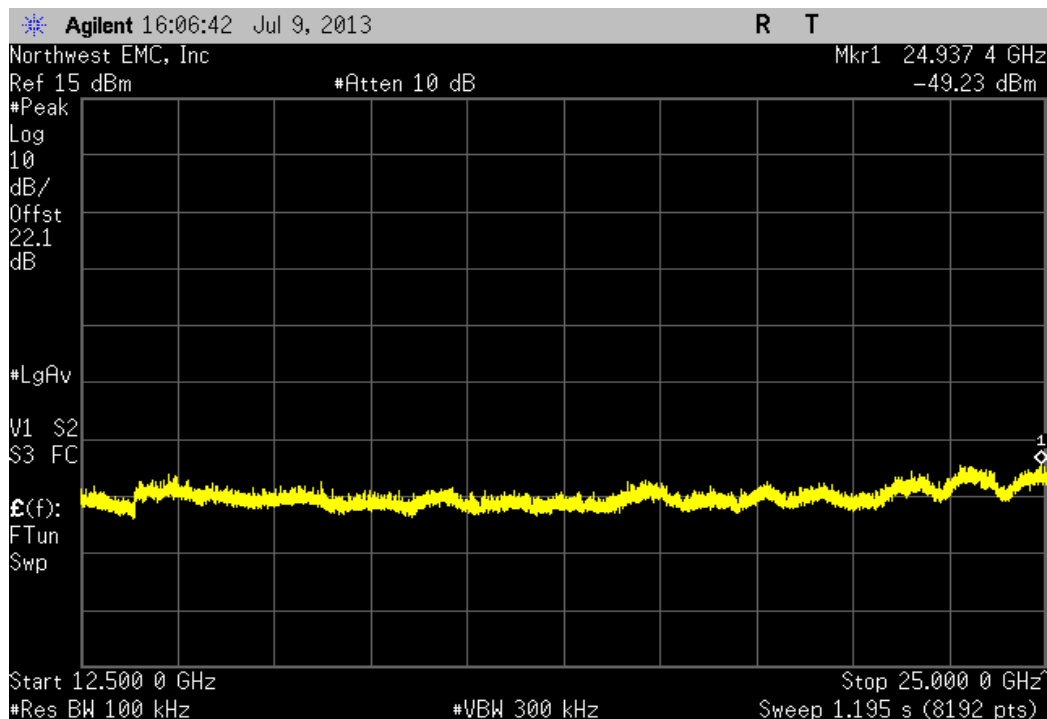
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |             |  |  |       |       |        |
|----------------------------------------------------------------------------------------|-------------|--|--|-------|-------|--------|
| Frequency Range                                                                        |             |  |  | Value | Limit | Result |
|                                                                                        | Fundamental |  |  | N/A   | N/A   | N/A    |



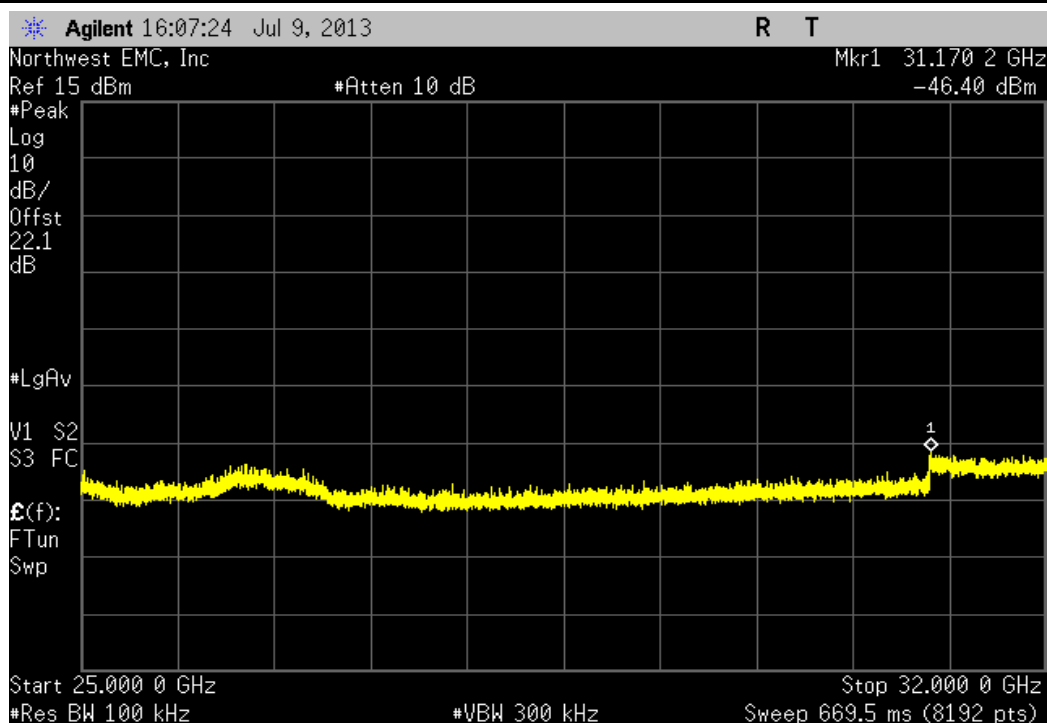
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |                   |  |  |            |           |        |
|----------------------------------------------------------------------------------------|-------------------|--|--|------------|-----------|--------|
| Frequency Range                                                                        |                   |  |  | Value      | Limit     | Result |
|                                                                                        | 30 MHz - 12.5 GHz |  |  | -48.32 dBc | ≤ -20 dBc | Pass   |



| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 12.5 GHz - 25 GHz                                                                      |  | -44.04 dBc | ≤ -20 dBc | Pass   |

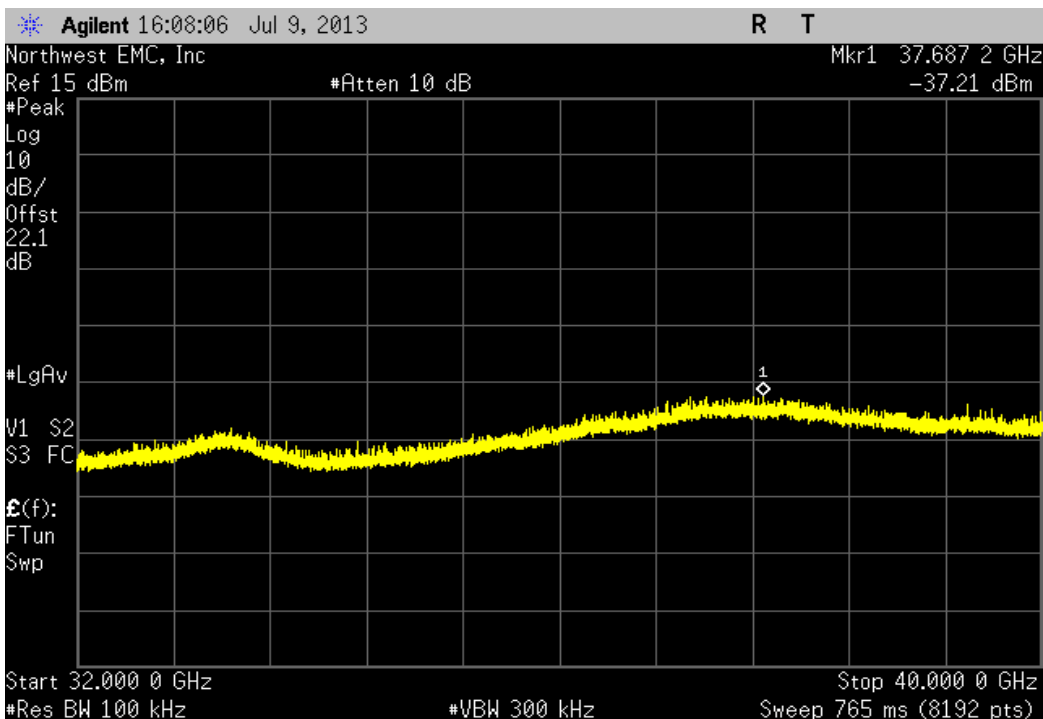


| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                        |  | -41.21 dBc | ≤ -20 dBc | Pass   |



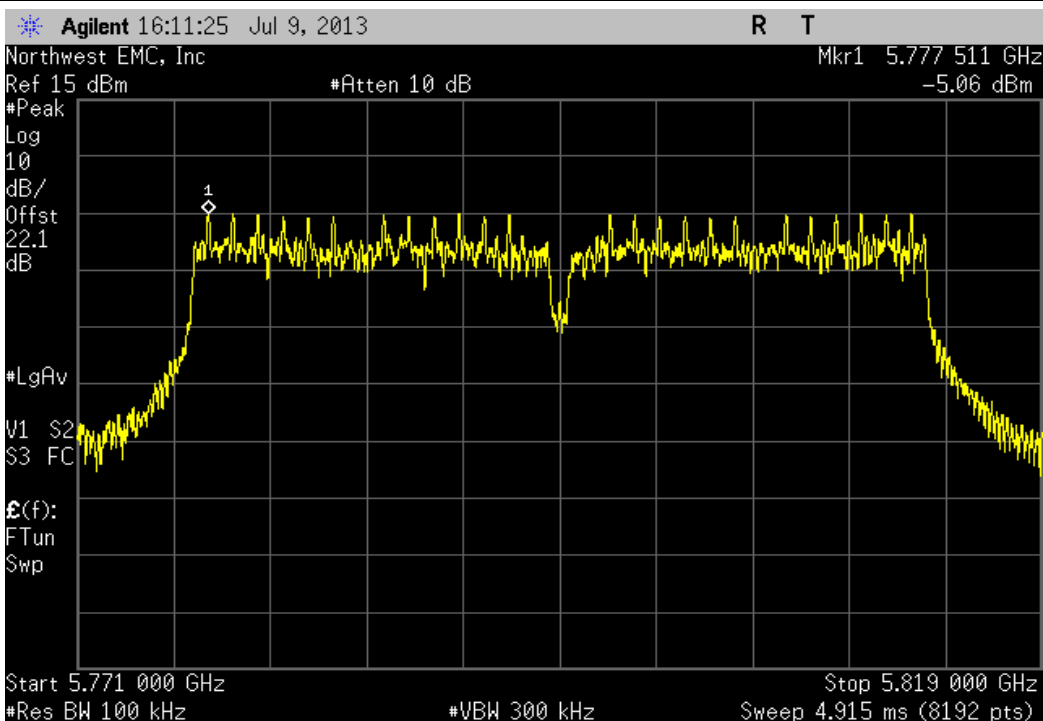
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz

| Frequency Range | Value      | Limit     | Result |
|-----------------|------------|-----------|--------|
| 32 GHz - 40 GHz | -32.02 dBc | ≤ -20 dBc | Pass   |



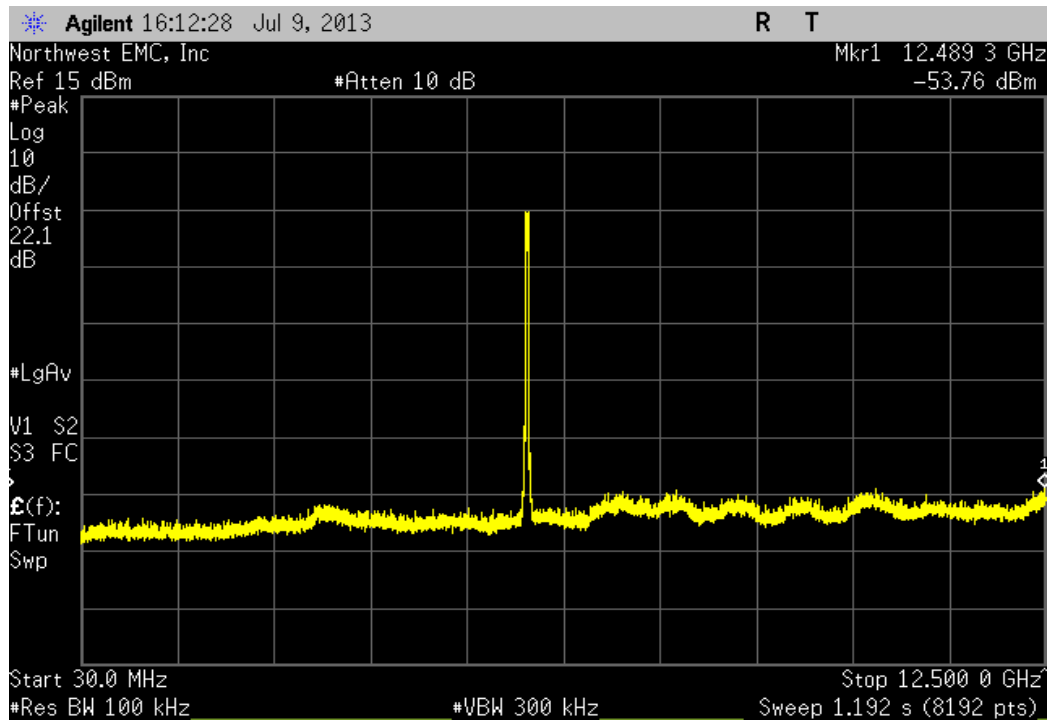
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz

| Frequency Range | Value | Limit | Result |
|-----------------|-------|-------|--------|
| Fundamental     | N/A   | N/A   | N/A    |

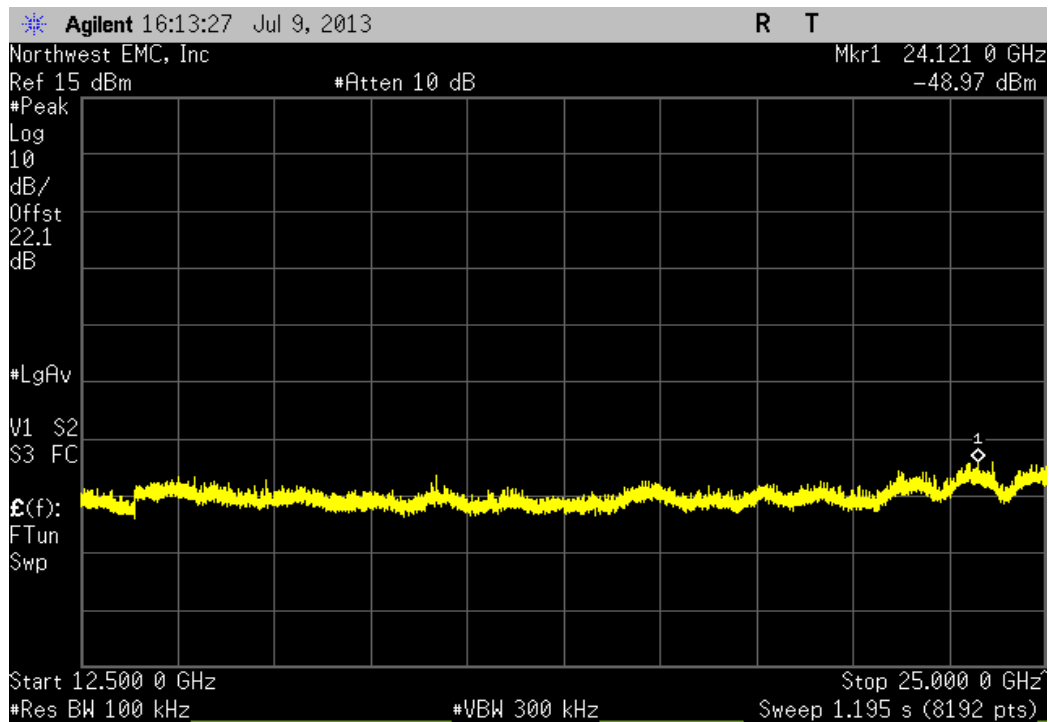




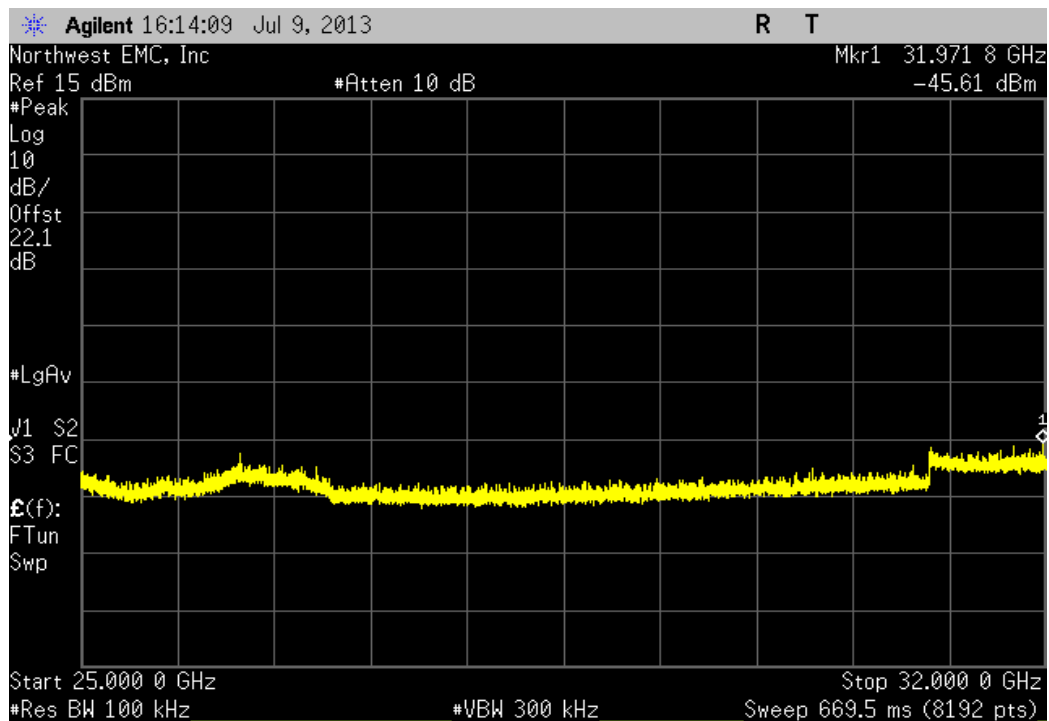
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |           |           |        |  |
|-----------------------------------------------------------------------------------------|-----------|-----------|--------|--|
| Frequency Range                                                                         | Value     | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -48.7 dBc | ≤ -20 dBc | Pass   |  |



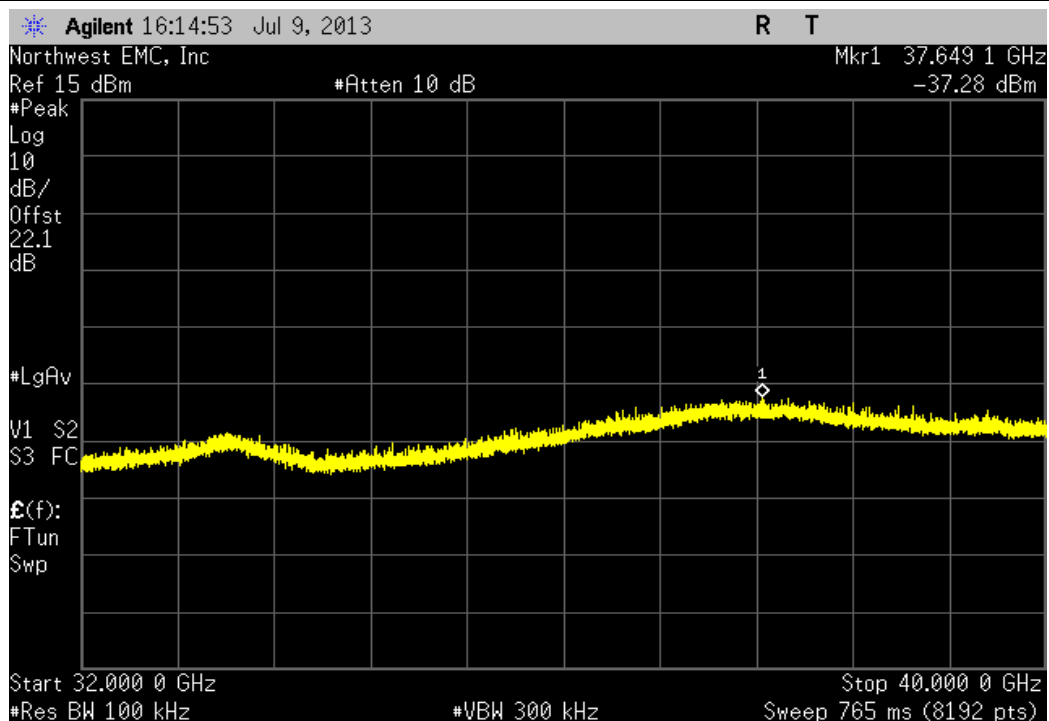
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -43.91 dBc | ≤ -20 dBc | Pass   |  |



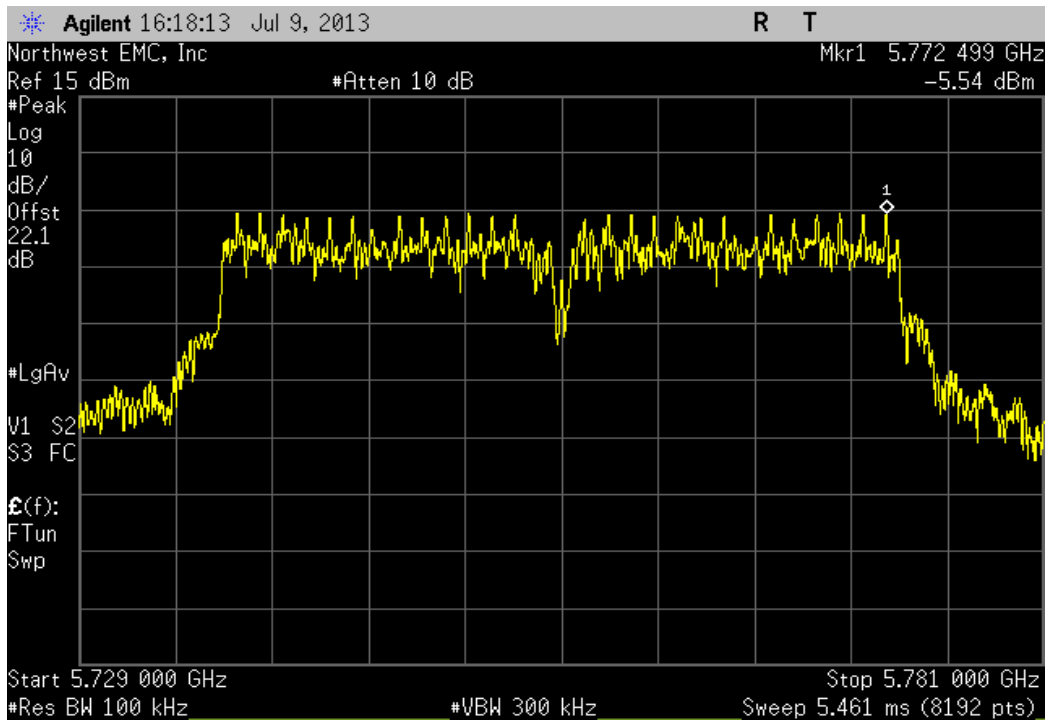
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |  |            |           |        |
|-----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                         |  | Value      | Limit     | Result |
| 25 GHz - 32 GHz                                                                         |  | -40.55 dBc | ≤ -20 dBc | Pass   |



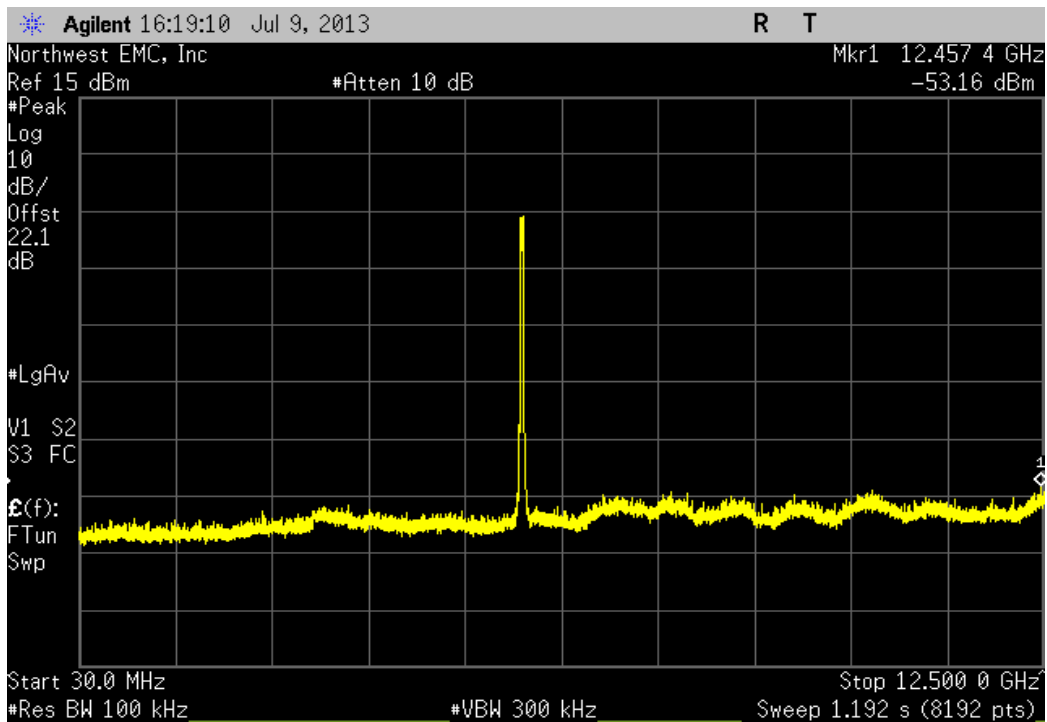
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz |  |            |           |        |
|-----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                         |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                         |  | -32.22 dBc | ≤ -20 dBc | Pass   |



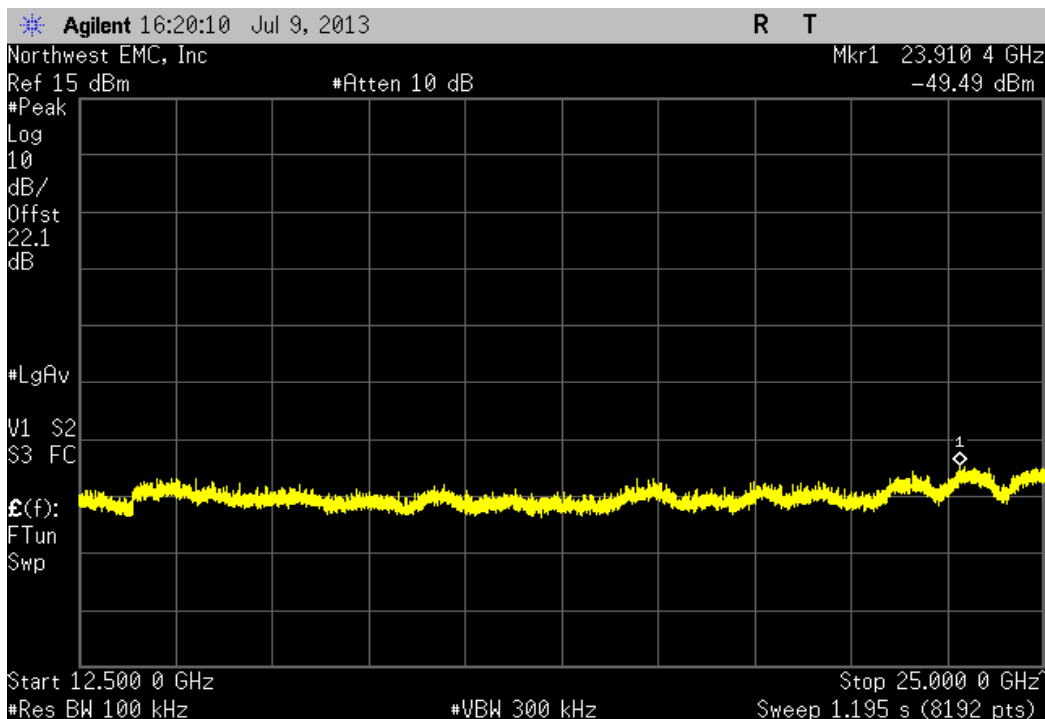
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |       |       |        |
|----------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                        |  | Value | Limit | Result |
| Fundamental                                                                            |  | N/A   | N/A   | N/A    |



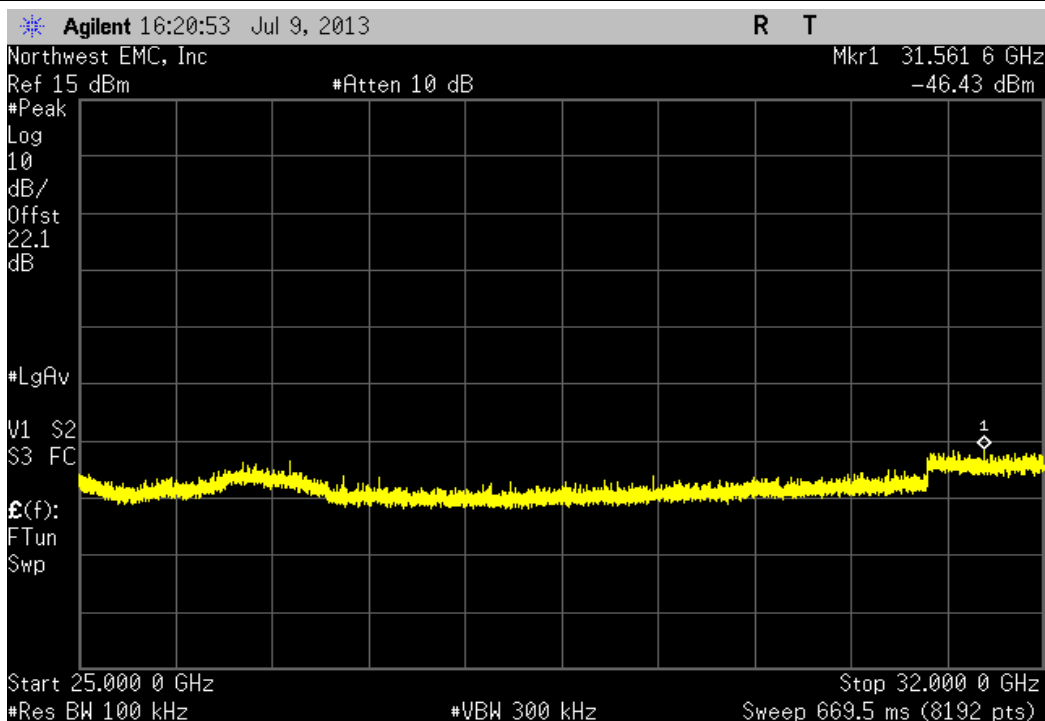
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 30 MHz - 12.5 GHz                                                                      |  | -47.62 dBc | ≤ -20 dBc | Pass   |



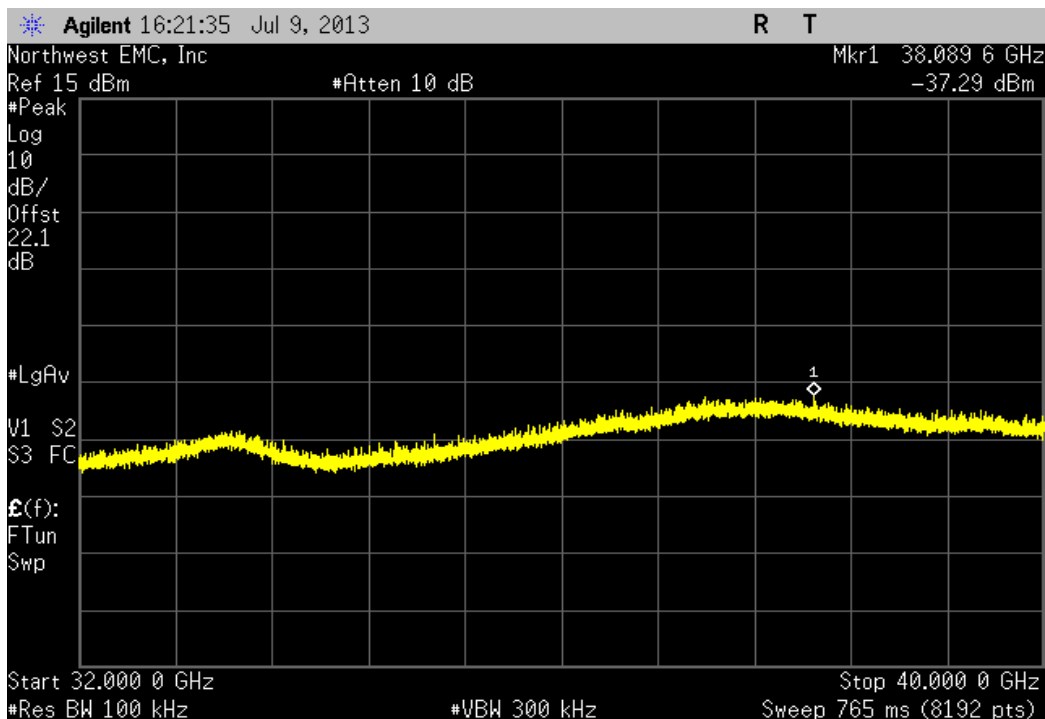
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                      | -43.95 dBc | ≤ -20 dBc | Pass   |  |



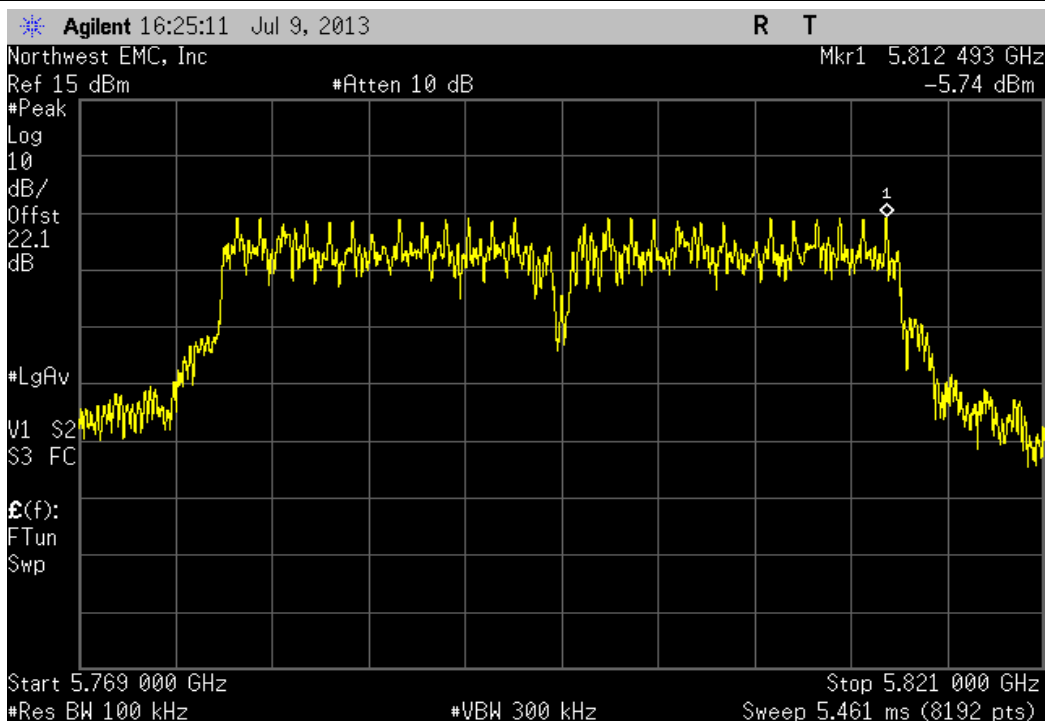
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |            |           |        |  |
|----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                        | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                        | -40.89 dBc | ≤ -20 dBc | Pass   |  |



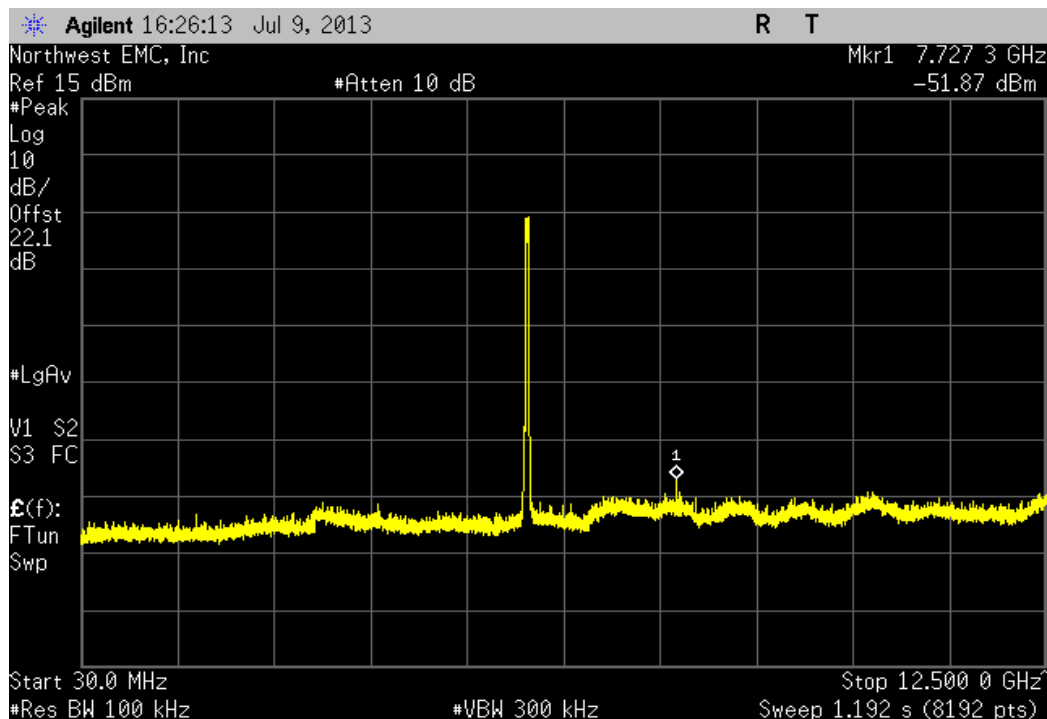
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz |  |            |           |        |
|----------------------------------------------------------------------------------------|--|------------|-----------|--------|
| Frequency Range                                                                        |  | Value      | Limit     | Result |
| 32 GHz - 40 GHz                                                                        |  | -31.75 dBc | ≤ -20 dBc | Pass   |



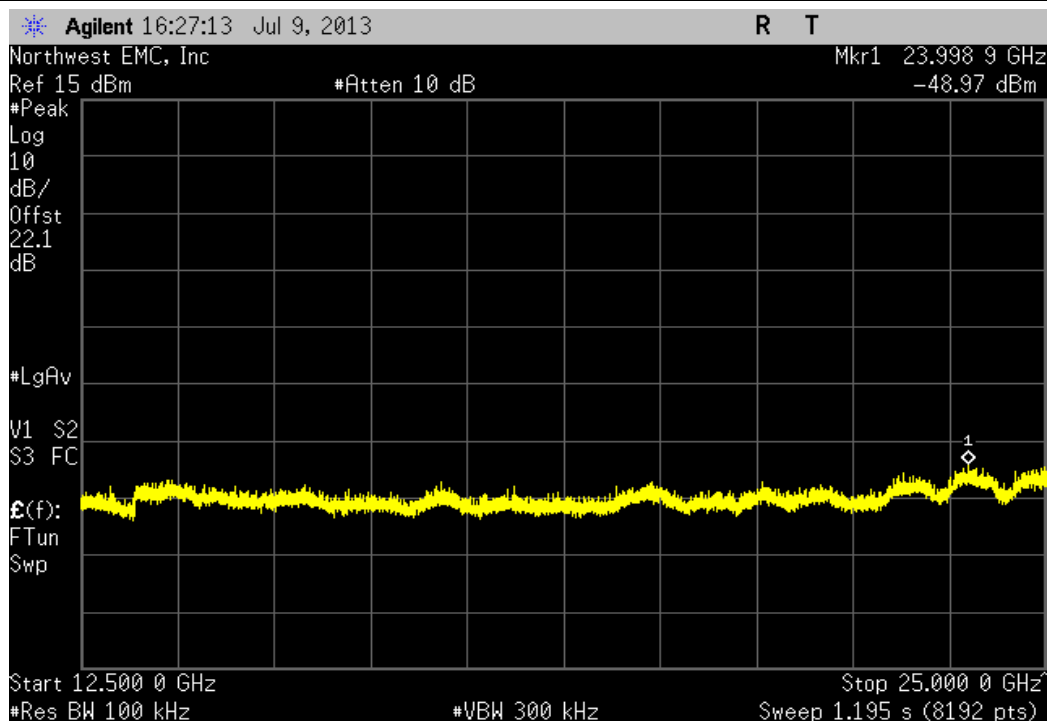
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |  |       |       |        |
|-----------------------------------------------------------------------------------------|--|-------|-------|--------|
| Frequency Range                                                                         |  | Value | Limit | Result |
| Fundamental                                                                             |  | N/A   | N/A   | N/A    |



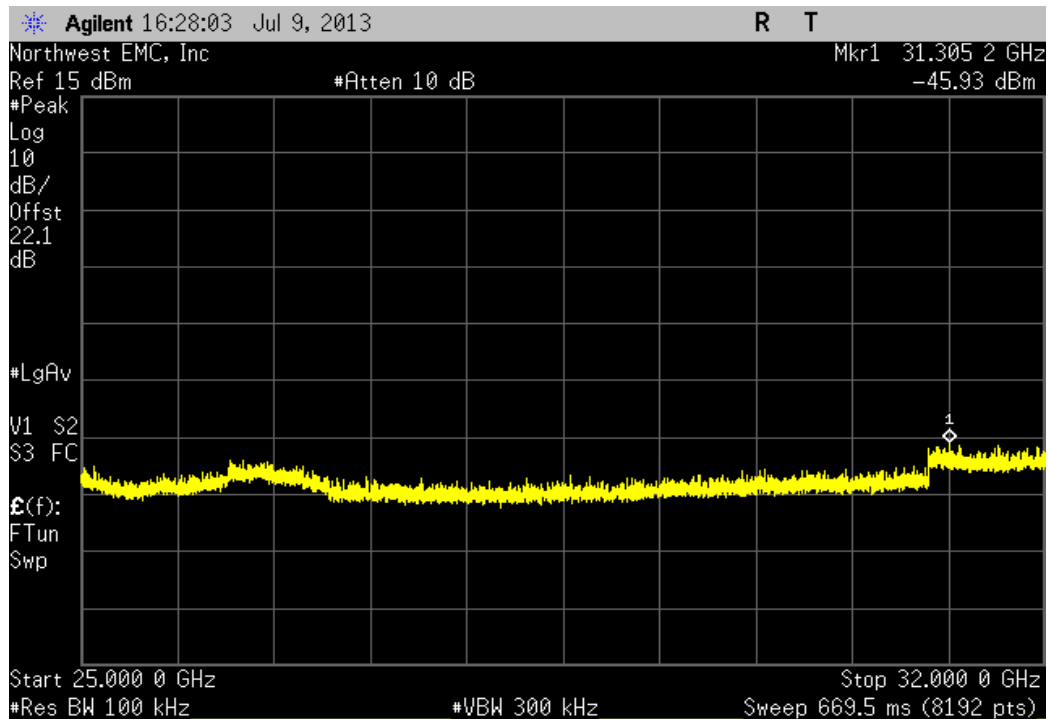
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 30 MHz - 12.5 GHz                                                                       | -46.13 dBc | ≤ -20 dBc | Pass   |  |



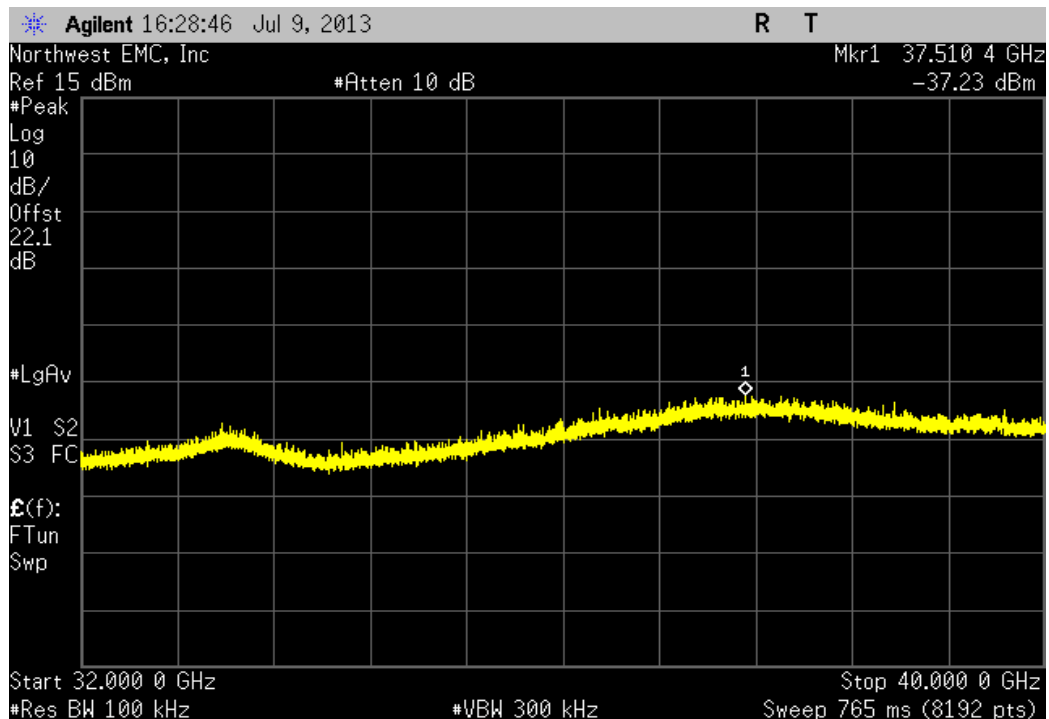
| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 12.5 GHz - 25 GHz                                                                       | -43.24 dBc | ≤ -20 dBc | Pass   |  |



| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 25 GHz - 32 GHz                                                                         | -40.19 dBc | ≤ -20 dBc | Pass   |  |



| 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz |            |           |        |  |
|-----------------------------------------------------------------------------------------|------------|-----------|--------|--|
| Frequency Range                                                                         | Value      | Limit     | Result |  |
| 32 GHz - 40 GHz                                                                         | -31.49 dBc | ≤ -20 dBc | Pass   |  |



## Band Edge Compliance - Antenna A-B

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

### TEST EQUIPMENT

| Description       | Manufacturer       | Model            | ID  | Last Cal. | Interval |
|-------------------|--------------------|------------------|-----|-----------|----------|
| Attenuator        | Fairview Microwave | SA4014-20        | TKE | 2/12/2013 | 12       |
| Signal Generator  | Agilent            | N5183A           | TIA | 1/27/2012 | 36       |
| Spectrum Analyzer | Agilent            | E4446A           | AAT | 6/28/2012 | 24       |
| NC02 Cable        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 7/3/2013  | 12       |

### TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.





## Band Edge Compliance - Antenna A-B

XMit 2013.02.28  
PsaTx 2013.06.07

|                                             |                        |
|---------------------------------------------|------------------------|
| EUT: 1601                                   | Work Order: MCSO1665   |
| Serial Number: 006079632553                 | Date: 07/10/13         |
| Customer: Microsoft Corporation             | Temperature: 23°C      |
| Attendees: None                             | Humidity: 44%          |
| Project: None                               | Barometric Pres.: 1018 |
| Tested by: Brandon Hobbs and Matthew Barnes | Power: 110VAC/60Hz     |
| TEST SPECIFICATIONS                         |                        |
| FCC 15.247:2013                             |                        |
| ANSI C63.10:2009                            |                        |
| TEST METHOD                                 |                        |
| Job Site: NC02                              |                        |

### COMMENTS

EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.

### DEVIATIONS FROM TEST STANDARD

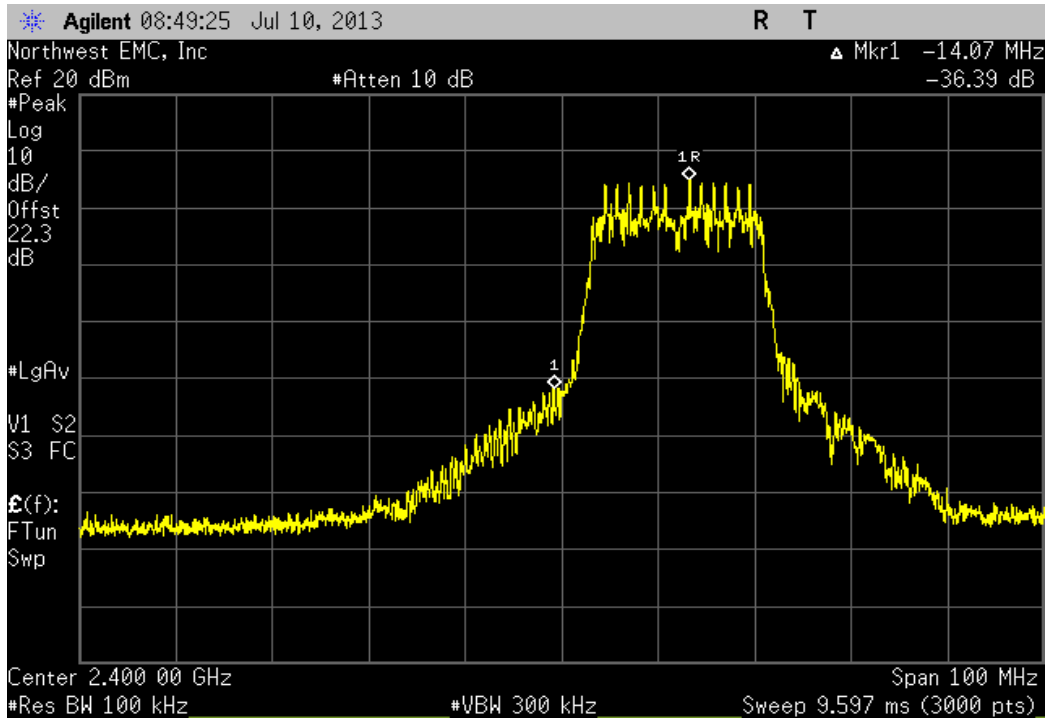
None

|                 |   |                                                                                             |
|-----------------|---|---------------------------------------------------------------------------------------------|
| Configuration # | 1 | Signature  |
|-----------------|---|---------------------------------------------------------------------------------------------|

|                                | Value      | Limit     | Result |
|--------------------------------|------------|-----------|--------|
| Chain A                        |            |           |        |
| 20 MHz                         |            |           |        |
| 2400 MHz - 2483.5 MHz Band     |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 1, 2412 MHz        | -36.39 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -46.68 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 1, 2412 MHz        | -35.17 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -46.79 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band       |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 149, 5745 MHz      | -42.02 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -52.89 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 149, 5745 MHz      | -42.96 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -53.24 dBc | ≤ -20 dBc | Pass   |
| 40 MHz                         |            |           |        |
| 2400 MHz - 2483.5 MHz Band     |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 1/5, 2422 MHz      | -30.61 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz    | -32.79 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 1/5, 2422 MHz      | -29.48 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz    | -31.34 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band       |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 149/153, 5745 MHz  | -35.09 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5745 MHz | -51.65 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 149/153, 5745 MHz  | -33.87 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5745 MHz | -51.26 dBc | ≤ -20 dBc | Pass   |
| Chain B                        |            |           |        |
| 20 MHz                         |            |           |        |
| 2400 MHz - 2483.5 MHz Band     |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 1, 2412 MHz        | -35.47 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -50.76 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 1, 2412 MHz        | -36.21 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -50.72 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band       |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 149, 5745 MHz      | -44.75 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -53.22 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 149, 5745 MHz      | -46.18 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -53.3 dBc  | ≤ -20 dBc | Pass   |
| 40 MHz                         |            |           |        |
| 2400 MHz - 2483.5 MHz Band     |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 1/5, 2422 MHz      | -34.29 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz    | -36.96 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 1/5, 2422 MHz      | -36.26 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz    | -35.65 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band       |            |           |        |
| 802.11(n) MCS8                 |            |           |        |
| Low Channel 149/153, 5745 MHz  | -37.42 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5745 MHz | -51.79 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS15                |            |           |        |
| Low Channel 149/153, 5745 MHz  | -37.24 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5745 MHz | -48.59 dBc | ≤ -20 dBc | Pass   |

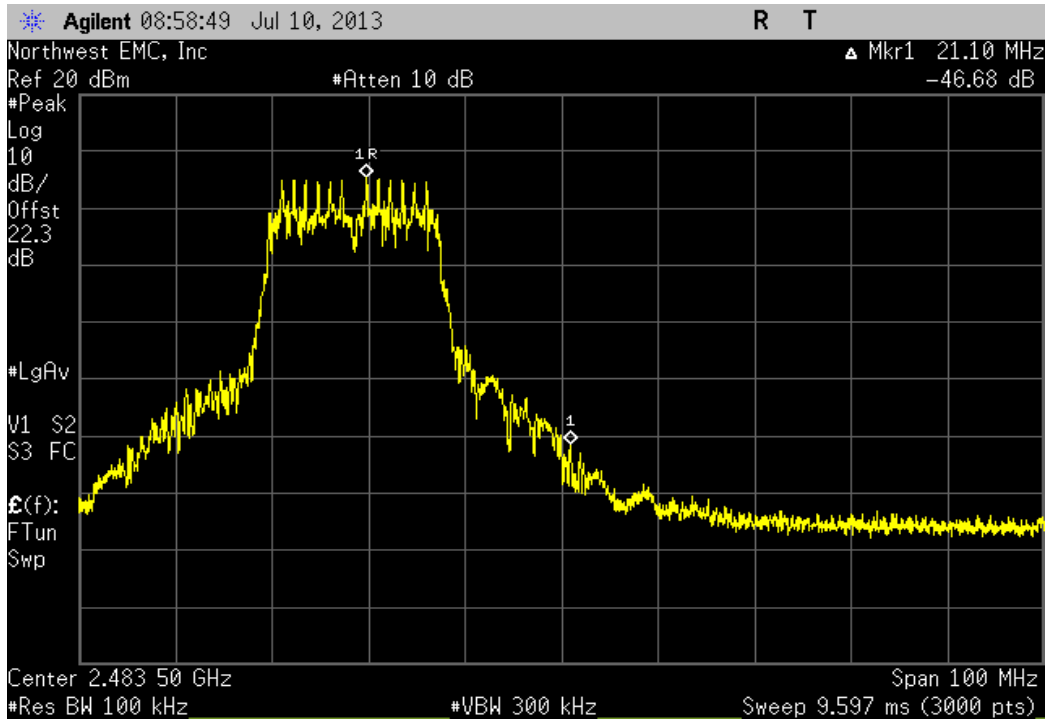
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -36.39 dBc | ≤ -20 dBc | Pass   |



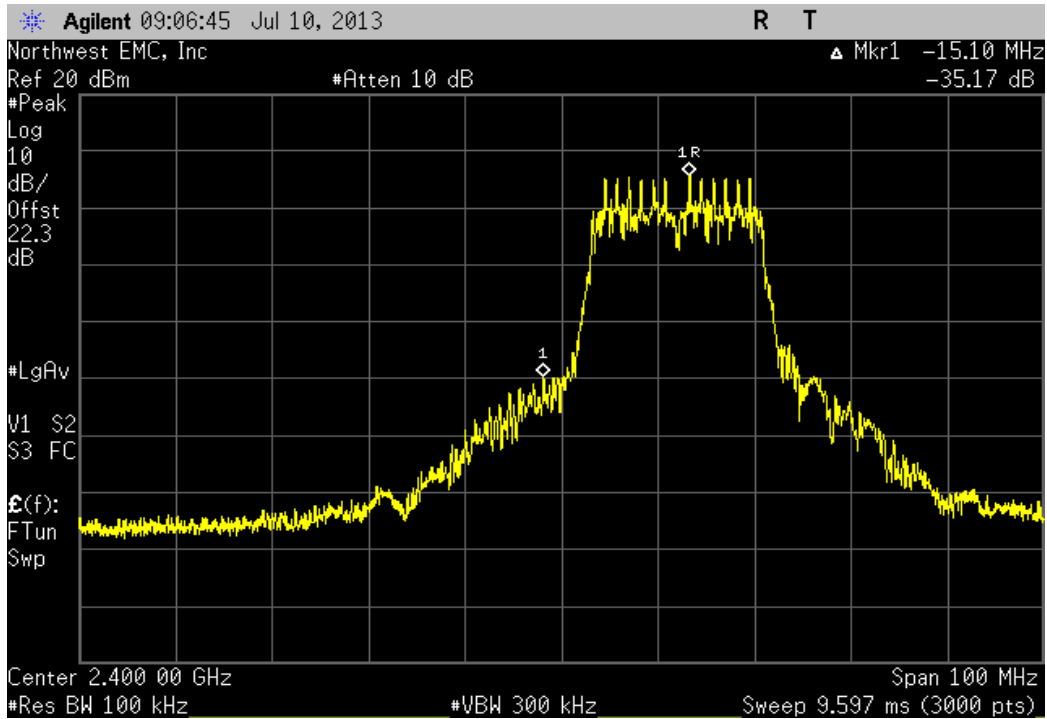
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -46.68 dBc | ≤ -20 dBc | Pass   |



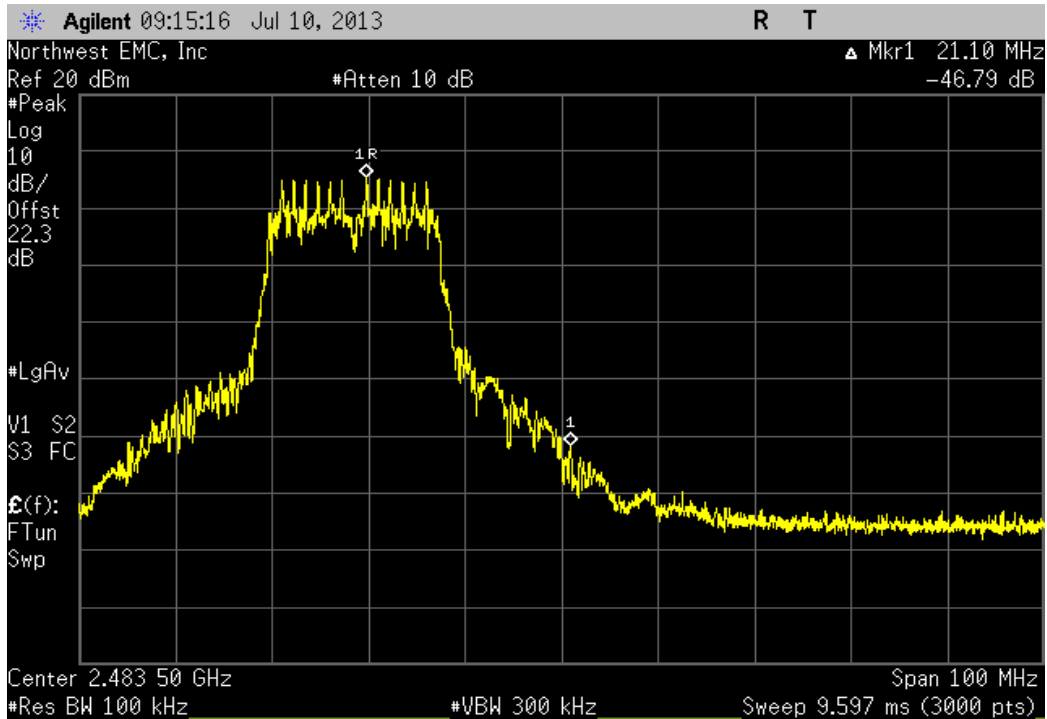
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -35.17 dBc | ≤ -20 dBc | Pass   |



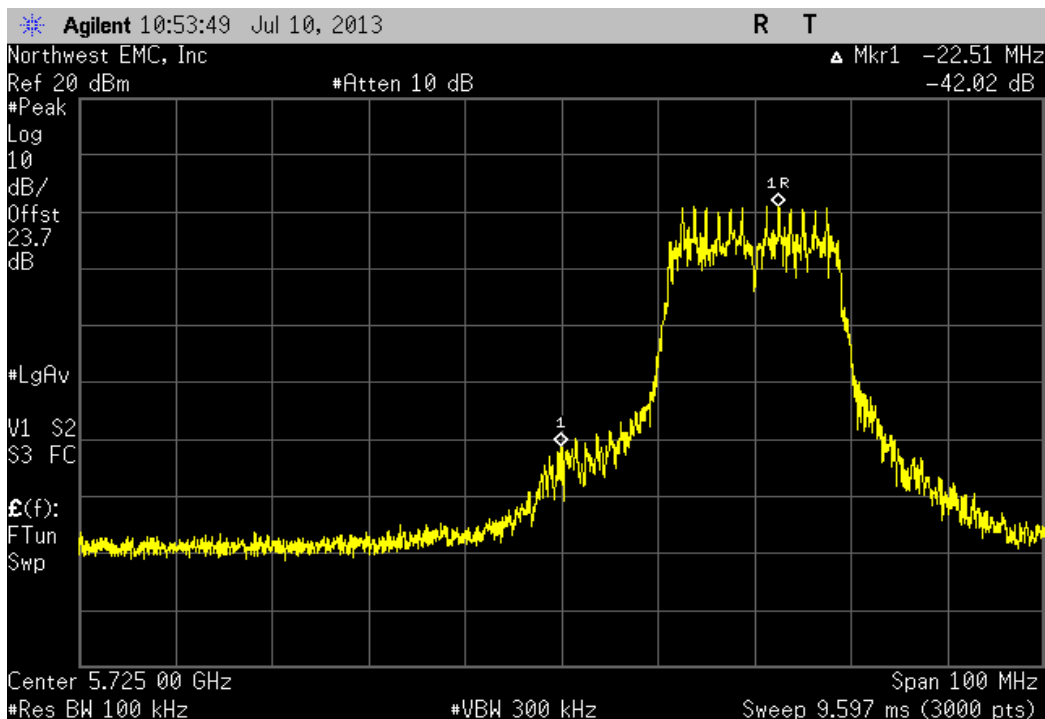
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -46.79 dBc | ≤ -20 dBc | Pass   |



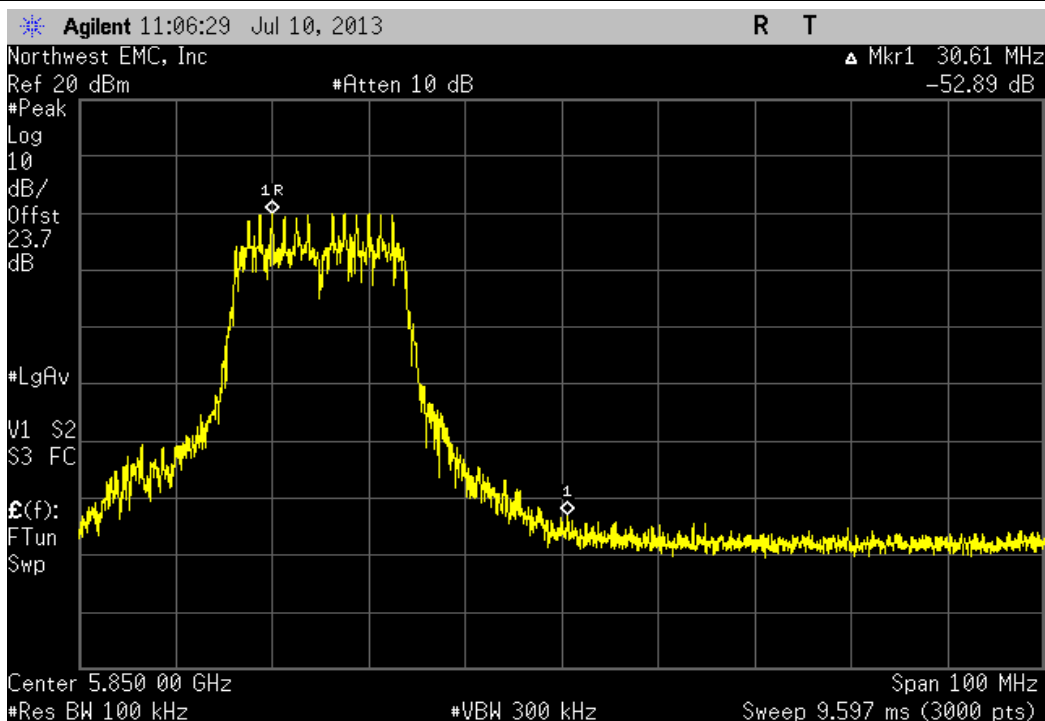
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -42.02 dBc | ≤ -20 dBc | Pass   |



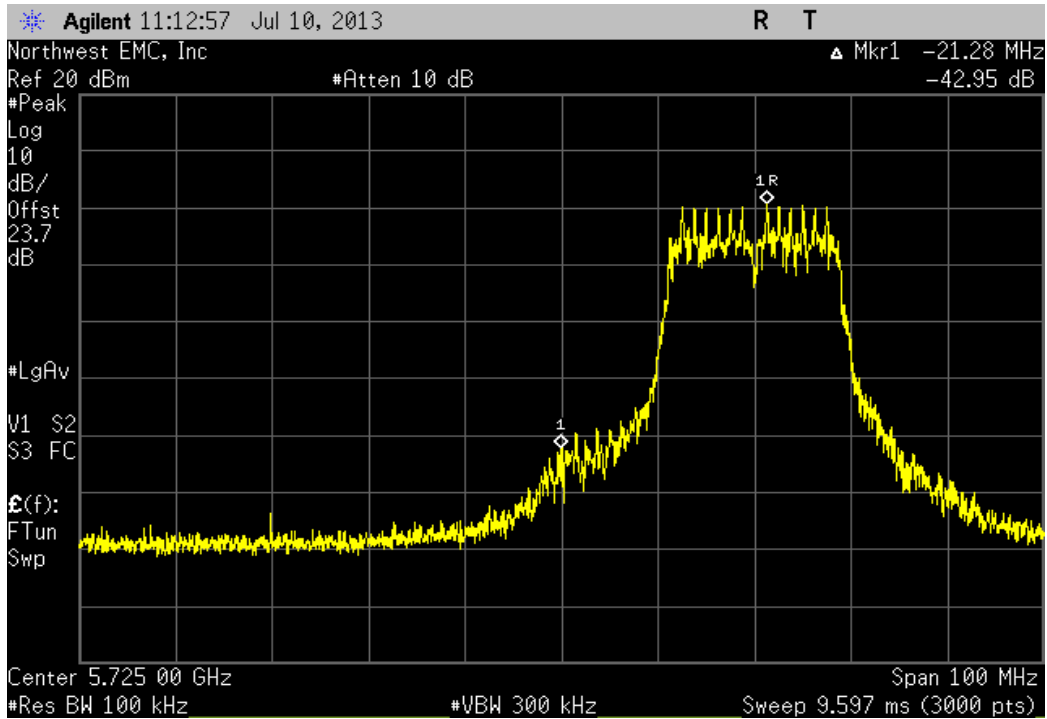
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -52.89 dBc | ≤ -20 dBc | Pass   |



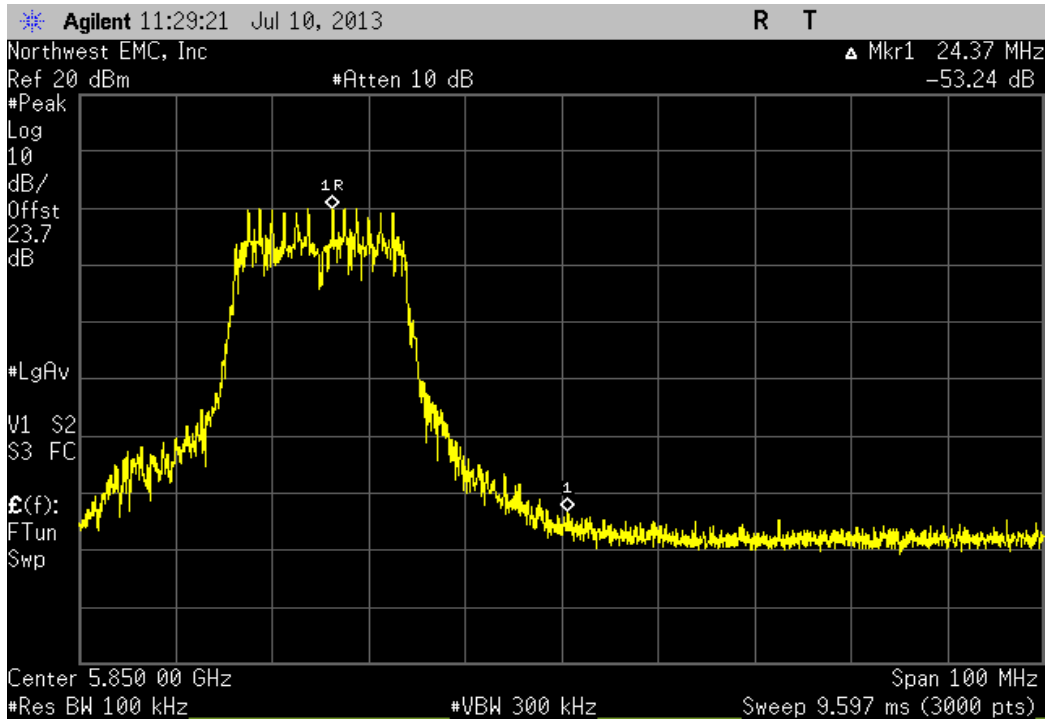
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -42.96 dBc | ≤ -20 dBc | Pass   |



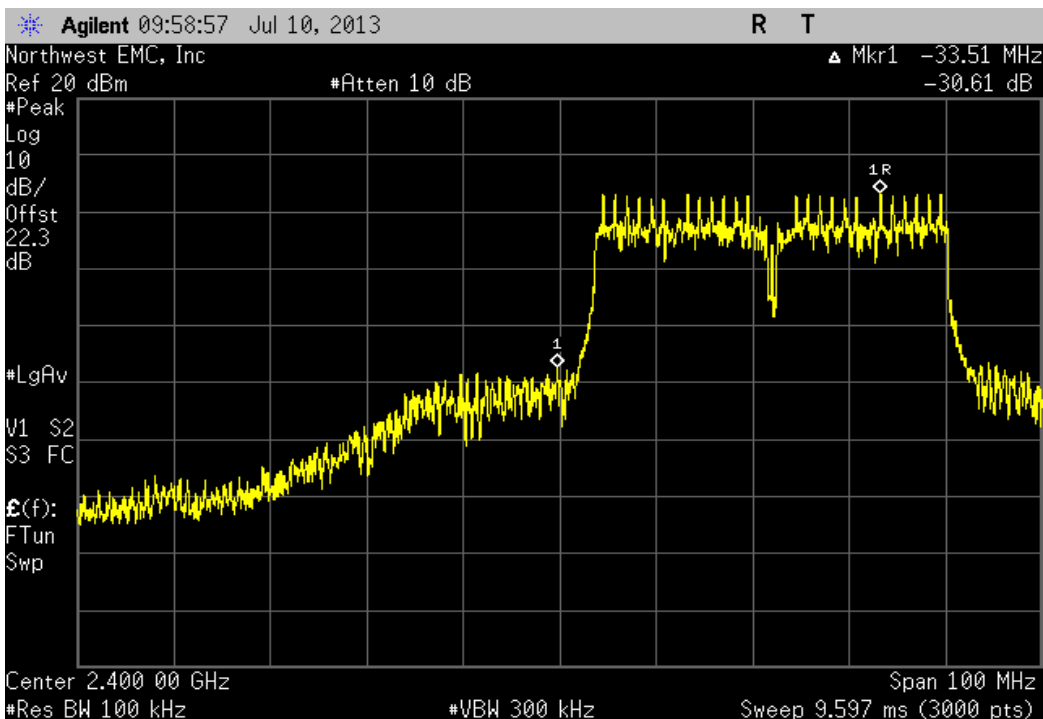
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.24 dBc | ≤ -20 dBc | Pass   |



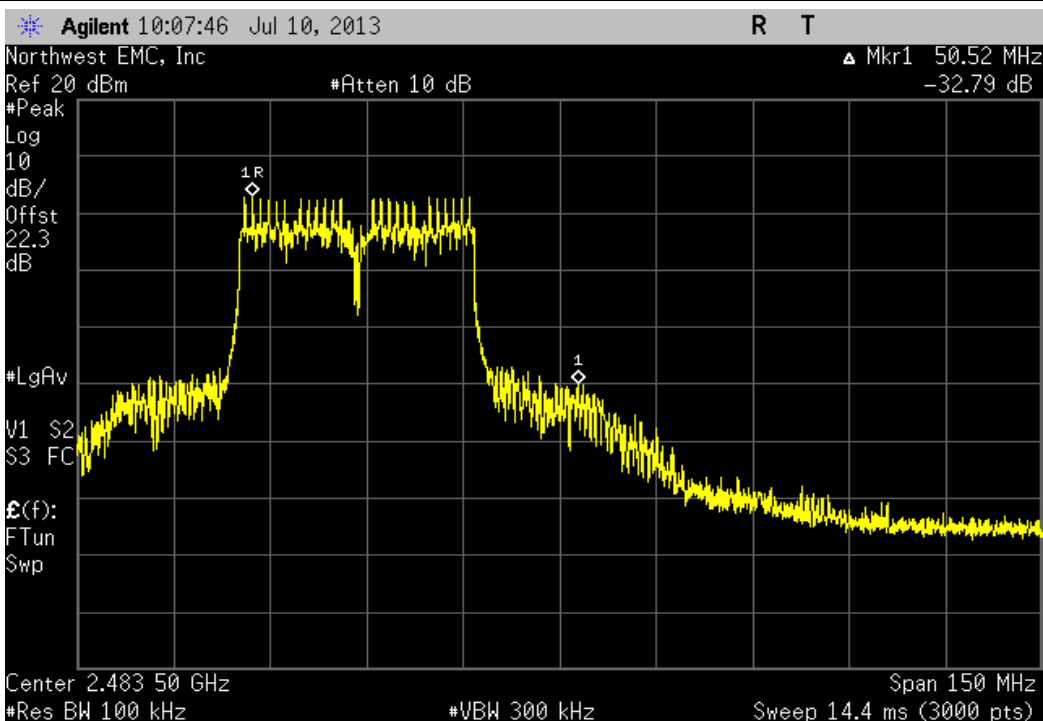
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -30.61 dBc | ≤ -20 dBc | Pass   |



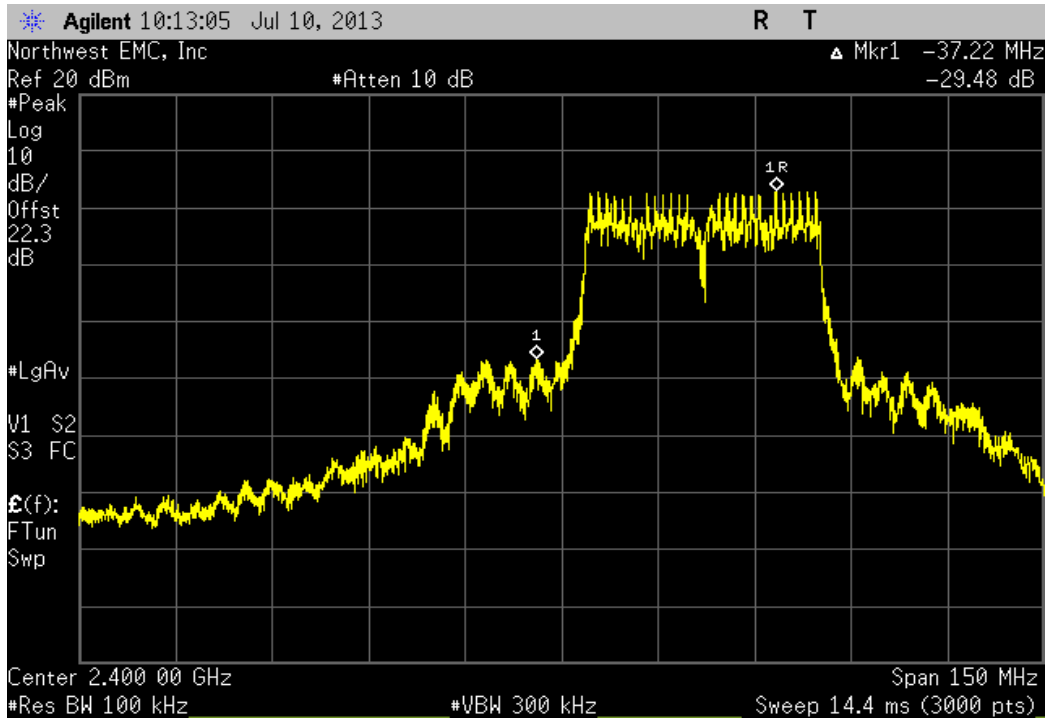
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -32.79 dBc | ≤ -20 dBc | Pass   |



Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -29.48 dBc | ≤ -20 dBc | Pass   |



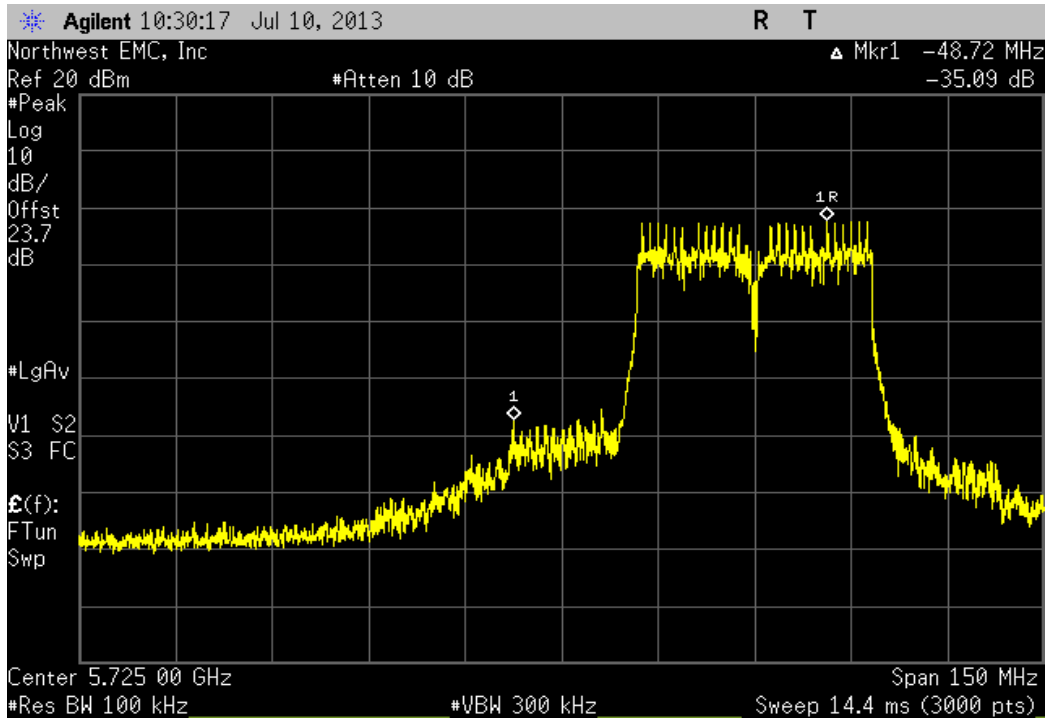
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -31.34 dBc | ≤ -20 dBc | Pass   |



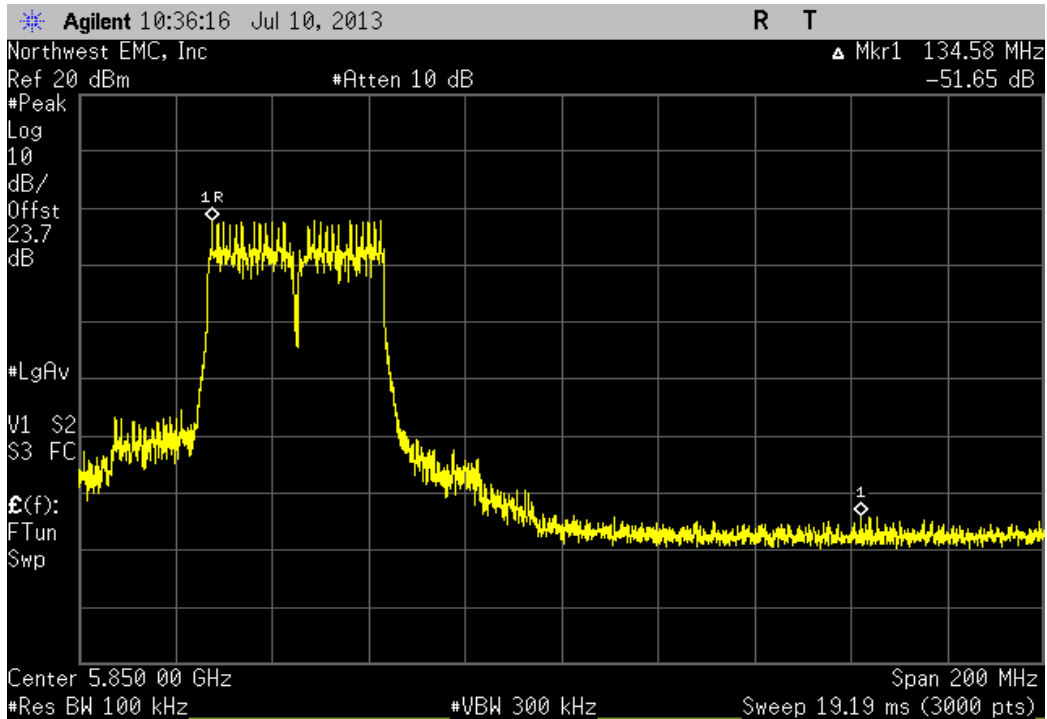
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -35.09 dBc | ≤ -20 dBc | Pass   |



Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz

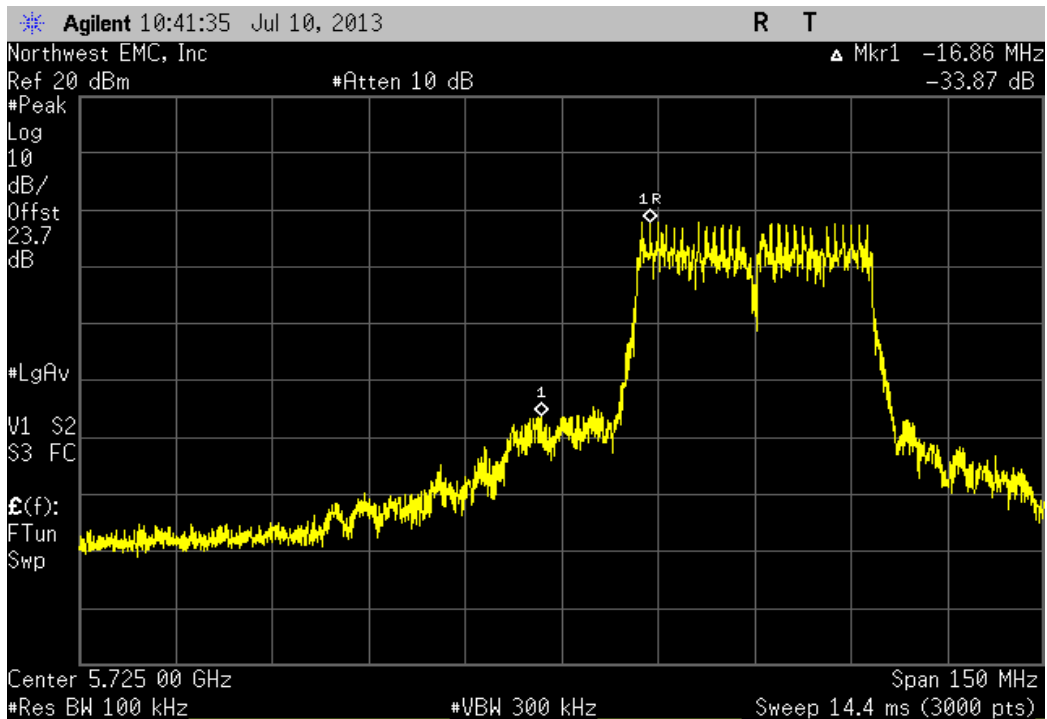
| Value      | Limit     | Result |
|------------|-----------|--------|
| -51.65 dBc | ≤ -20 dBc | Pass   |





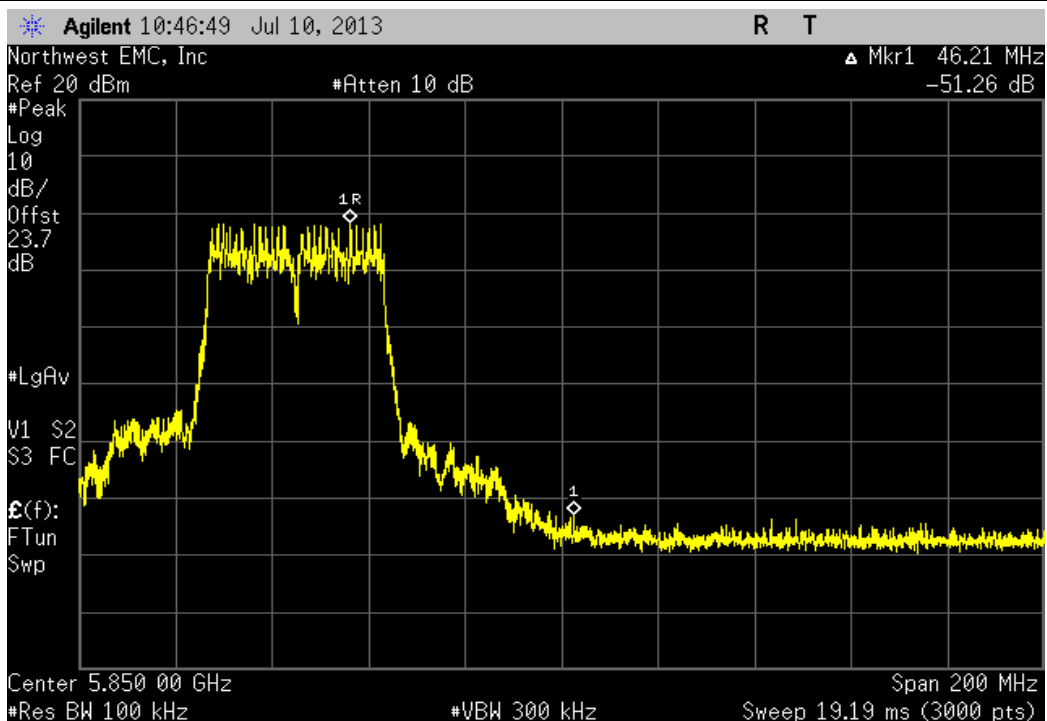
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -33.87 dBc | ≤ -20 dBc | Pass   |



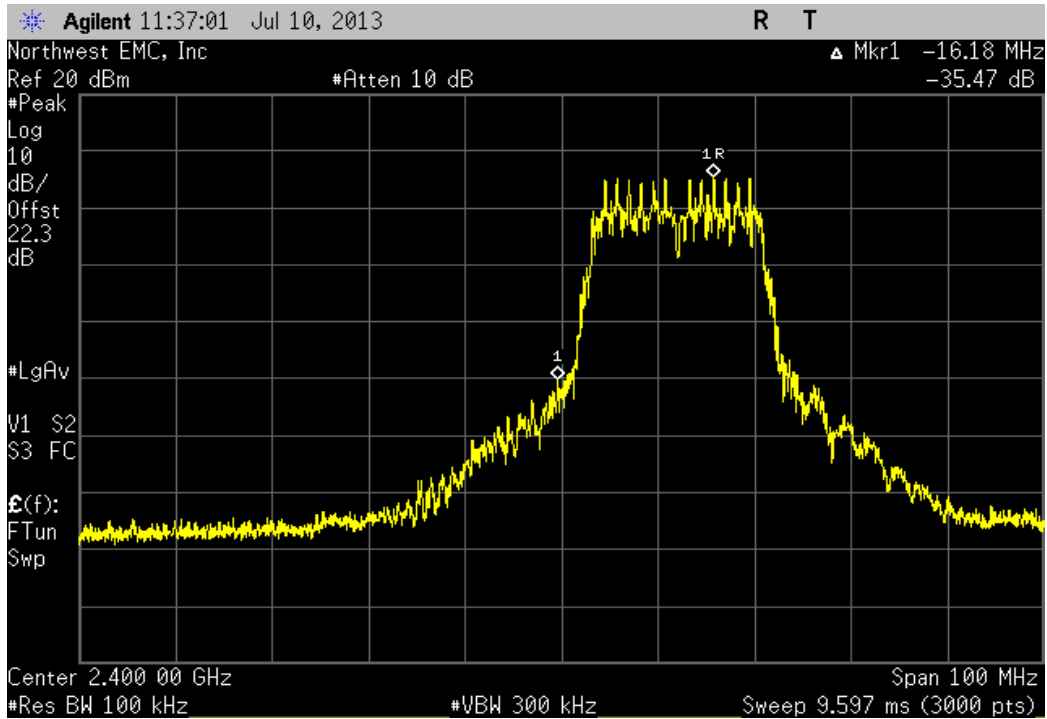
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -51.26 dBc | ≤ -20 dBc | Pass   |



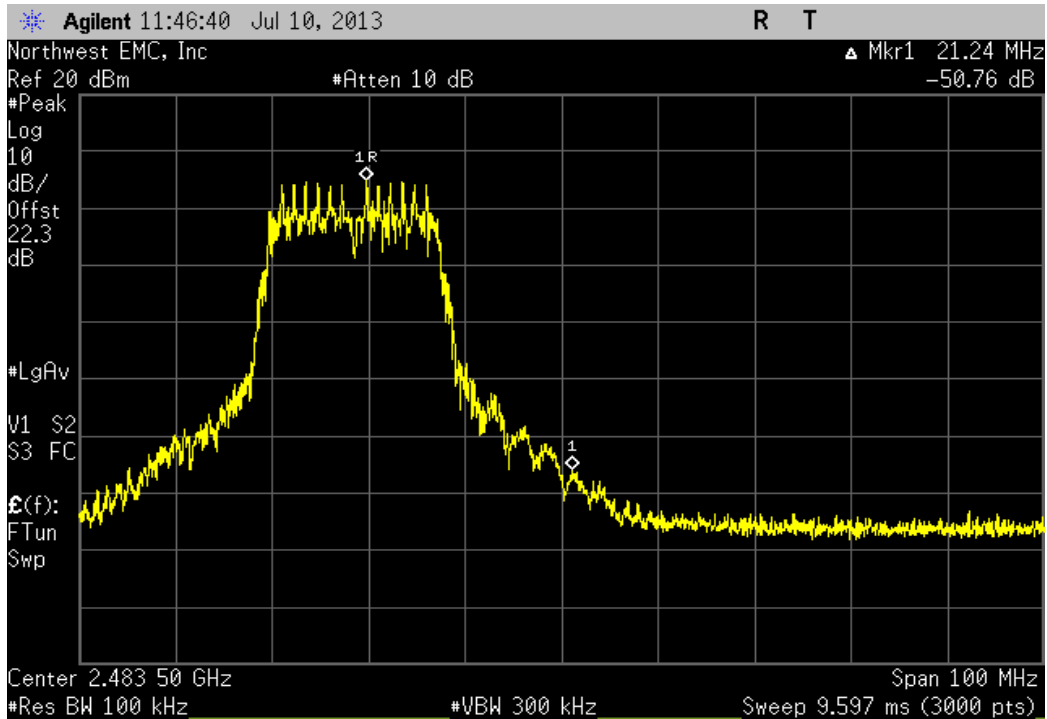
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -35.47 dBc | ≤ -20 dBc | Pass   |



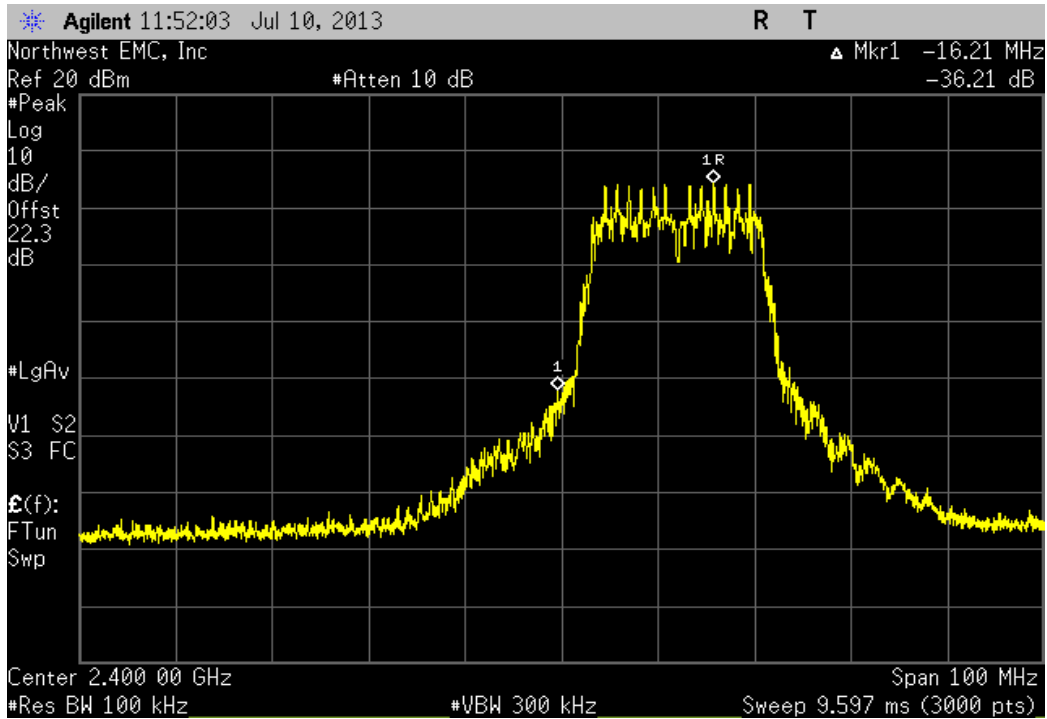
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -50.76 dBc | ≤ -20 dBc | Pass   |



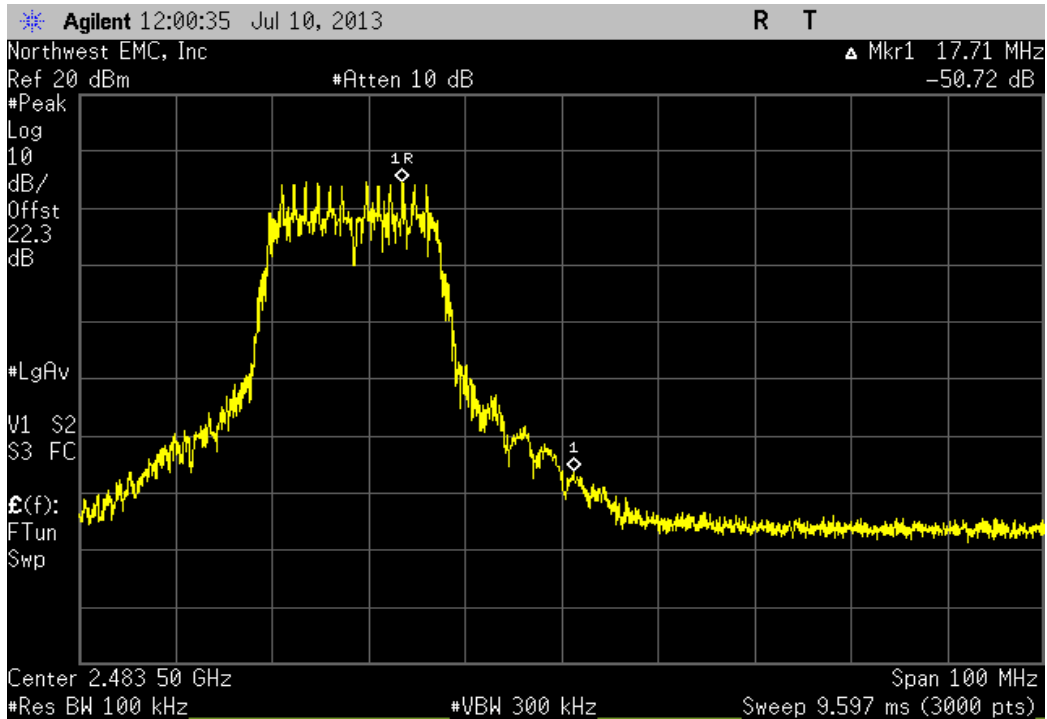
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -36.21 dBc | ≤ -20 dBc | Pass   |



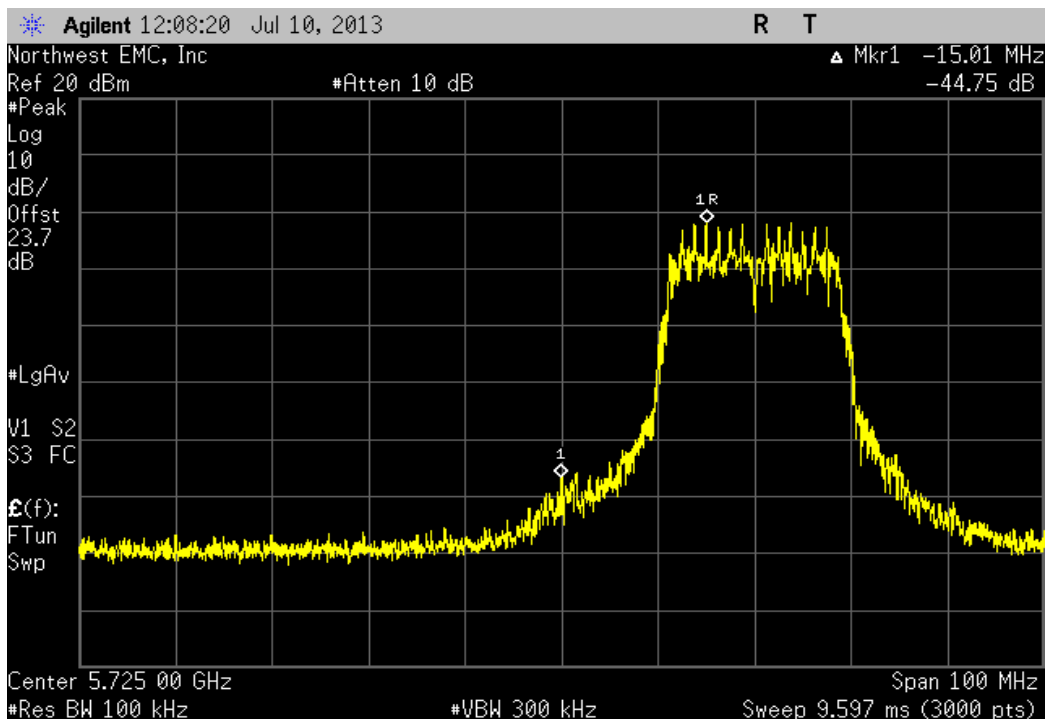
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -50.72 dBc | ≤ -20 dBc | Pass   |



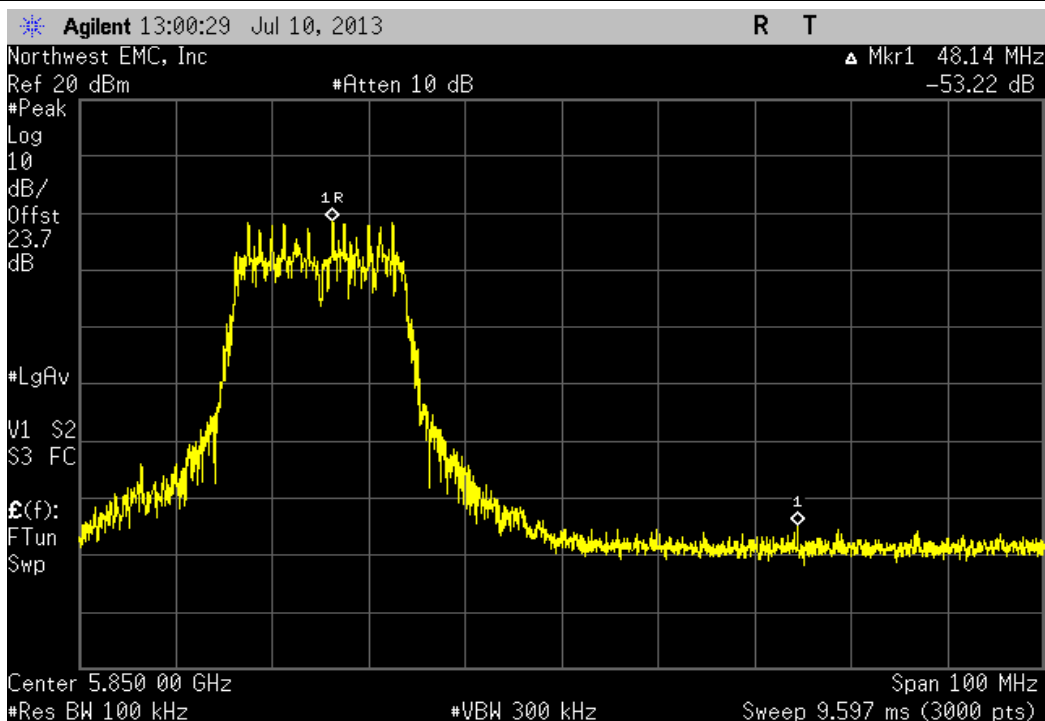
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -44.75 dBc | ≤ -20 dBc | Pass   |



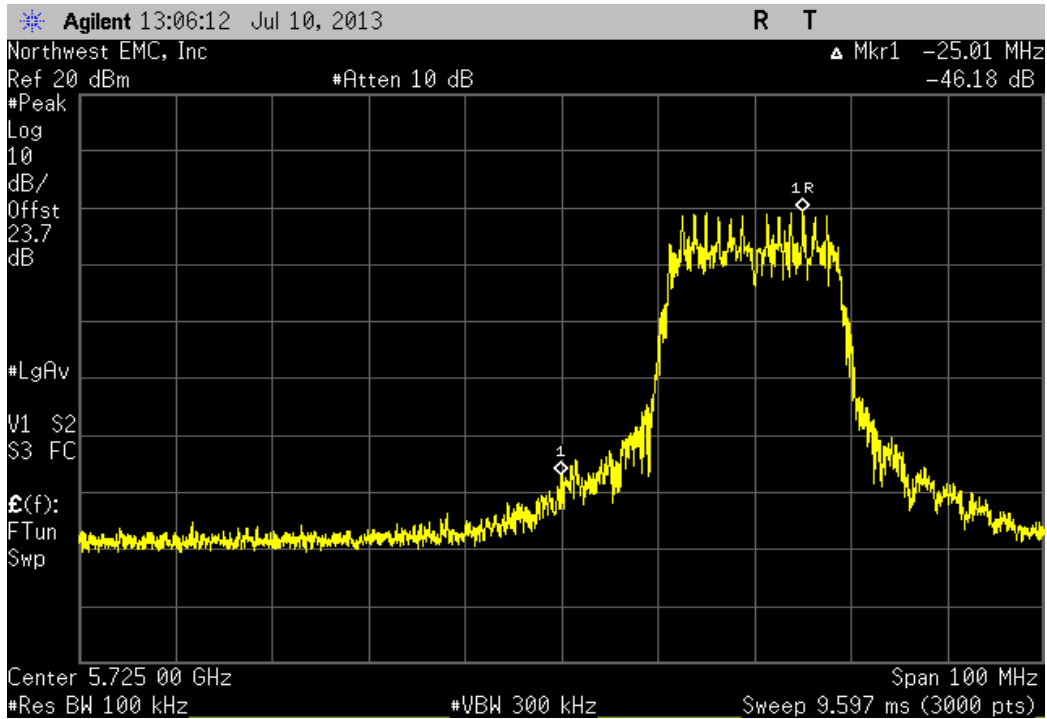
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.22 dBc | ≤ -20 dBc | Pass   |



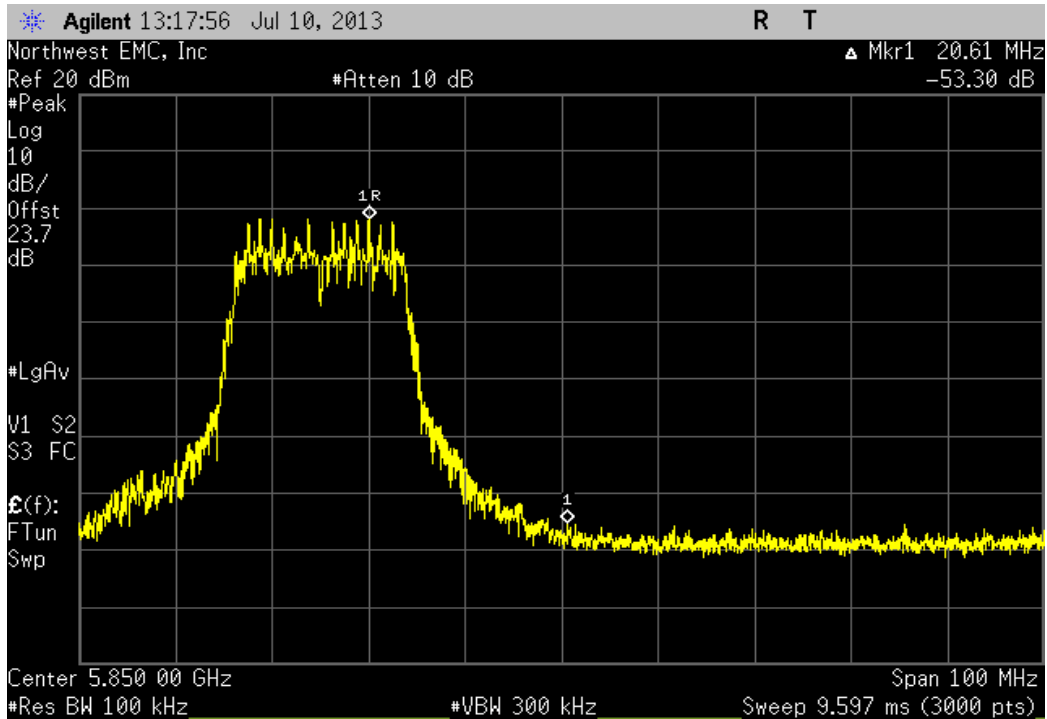
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -46.18 dBc | ≤ -20 dBc | Pass   |



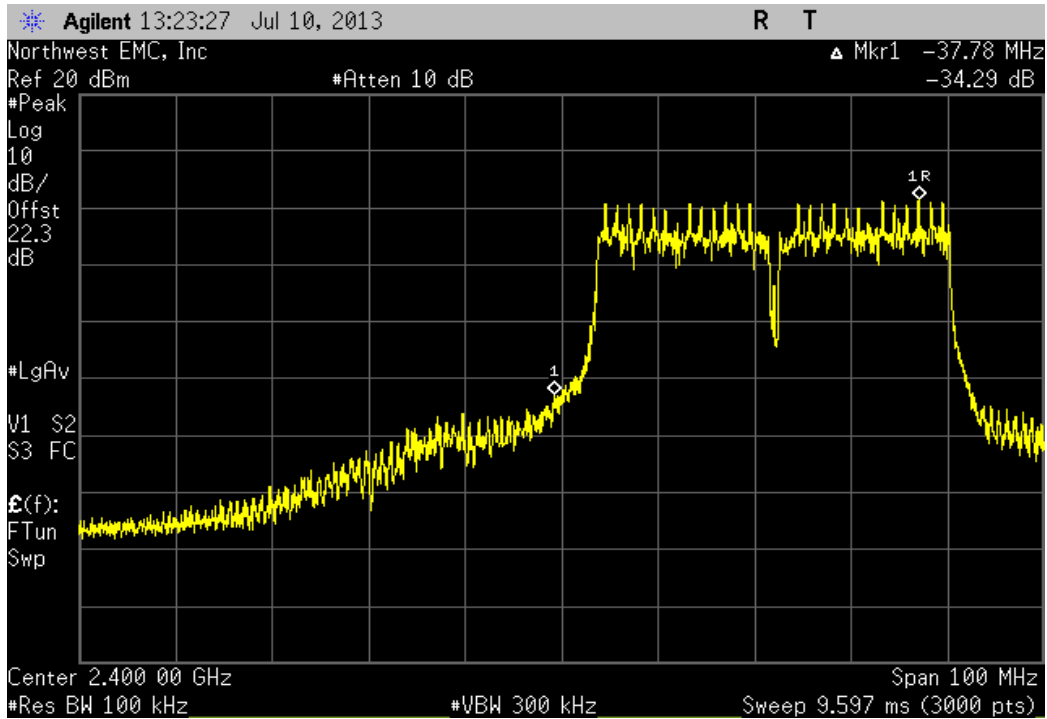
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz

| Value     | Limit     | Result |
|-----------|-----------|--------|
| -53.3 dBc | ≤ -20 dBc | Pass   |



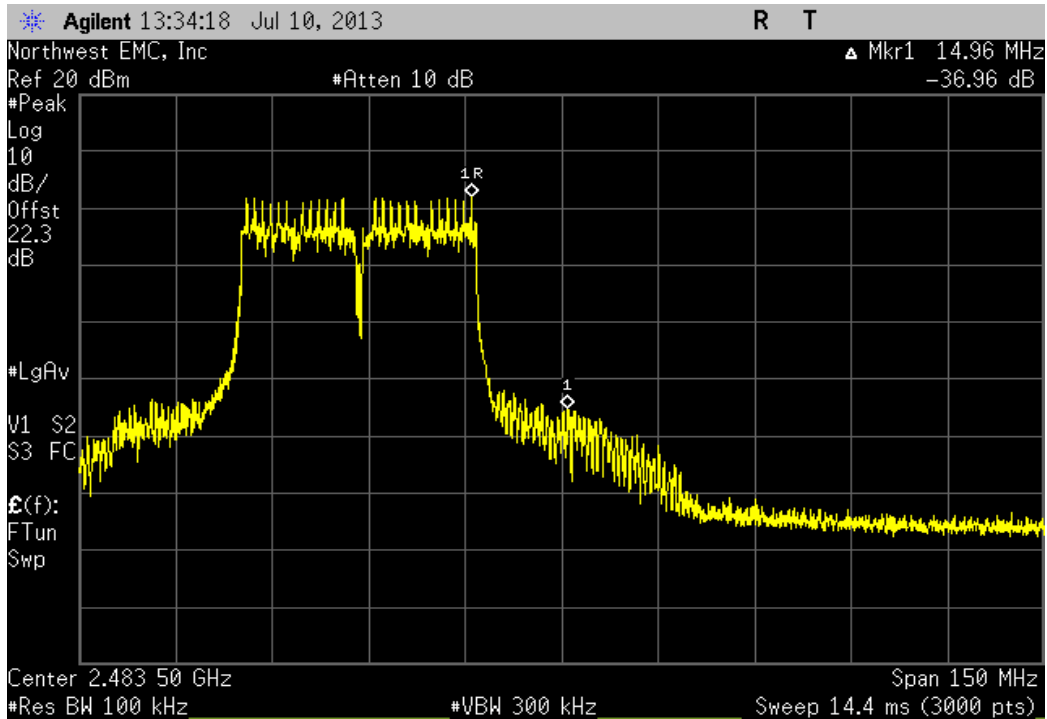
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -34.29 dBc | ≤ -20 dBc | Pass   |



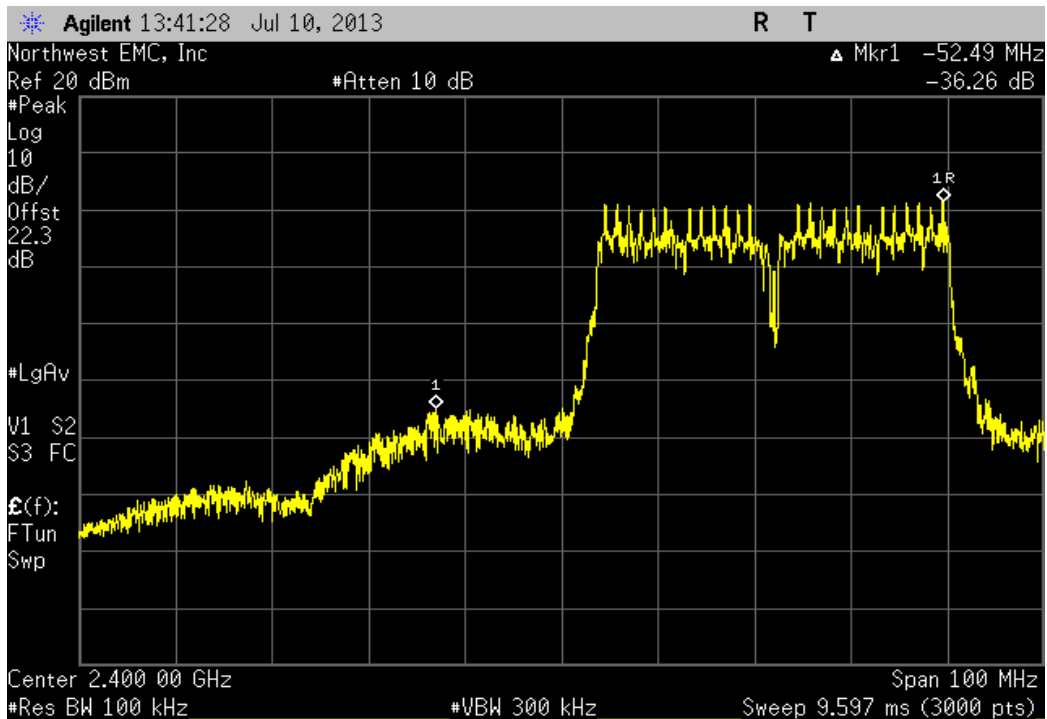
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -36.96 dBc | ≤ -20 dBc | Pass   |



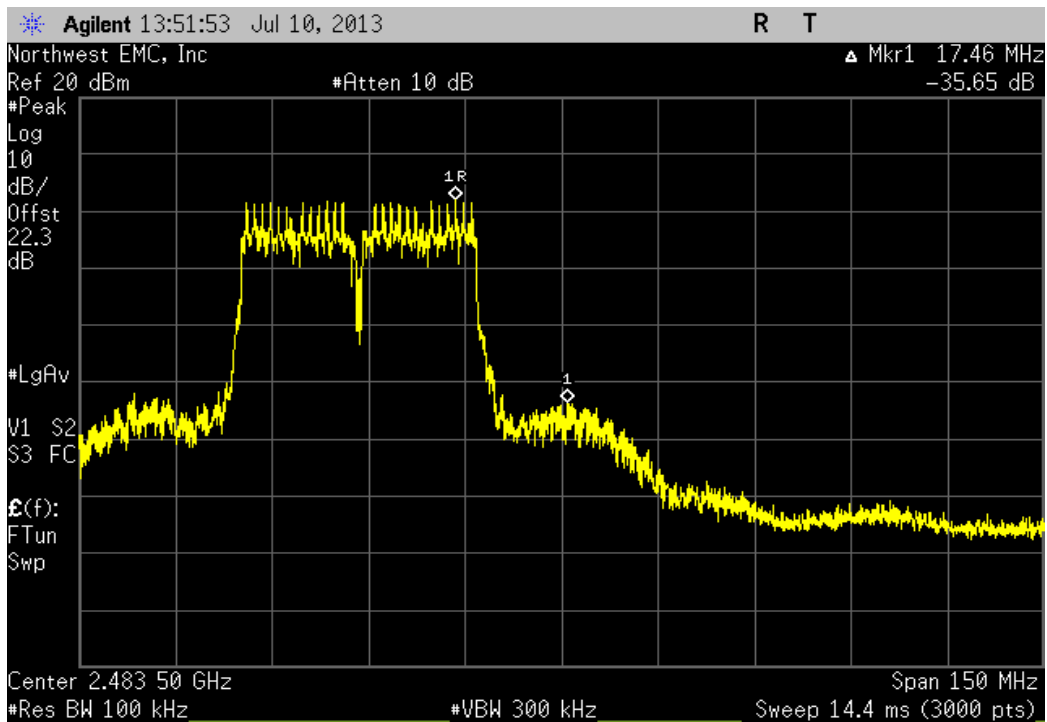
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -36.26 dBc | ≤ -20 dBc | Pass   |



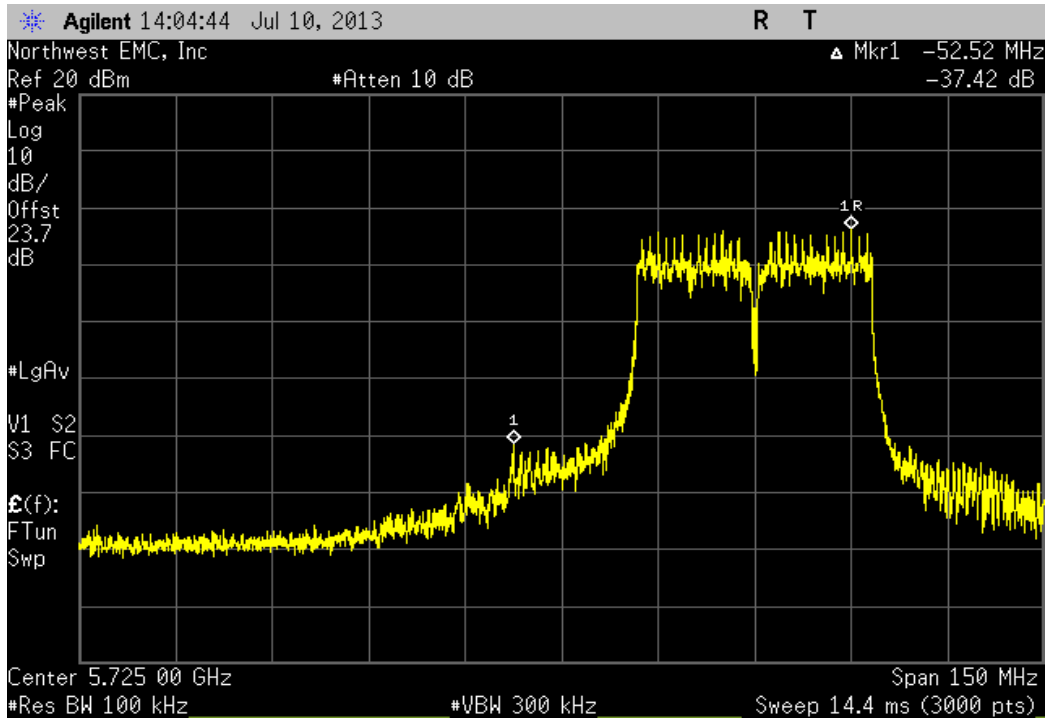
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -35.65 dBc | ≤ -20 dBc | Pass   |



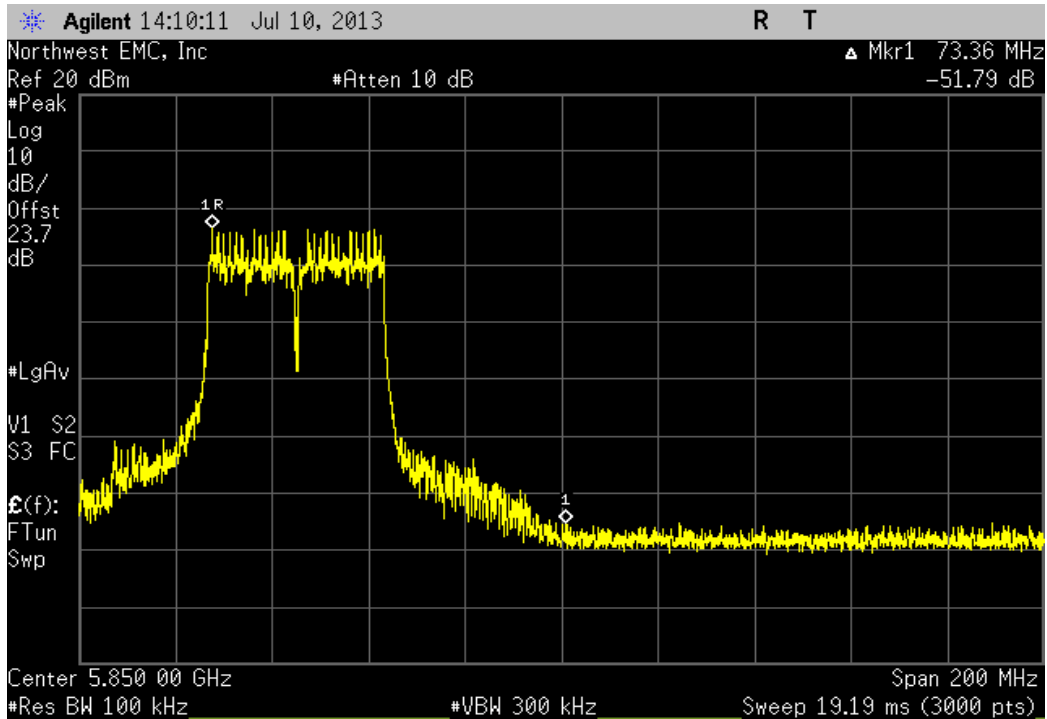
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -37.42 dBc | ≤ -20 dBc | Pass   |



Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz

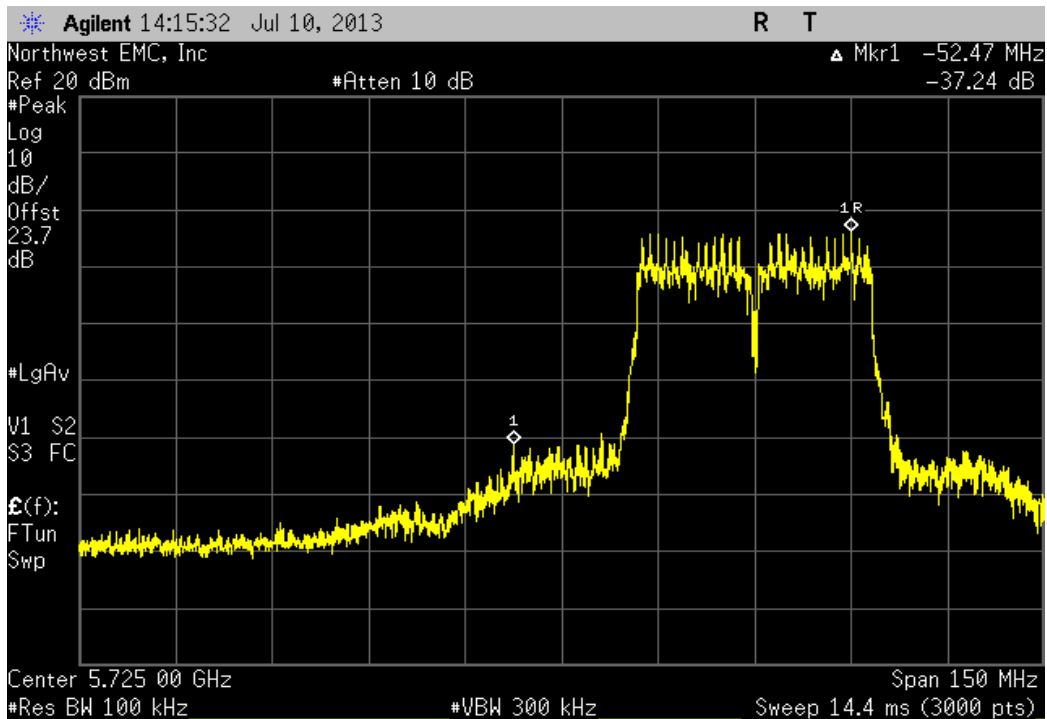
| Value      | Limit     | Result |
|------------|-----------|--------|
| -51.79 dBc | ≤ -20 dBc | Pass   |





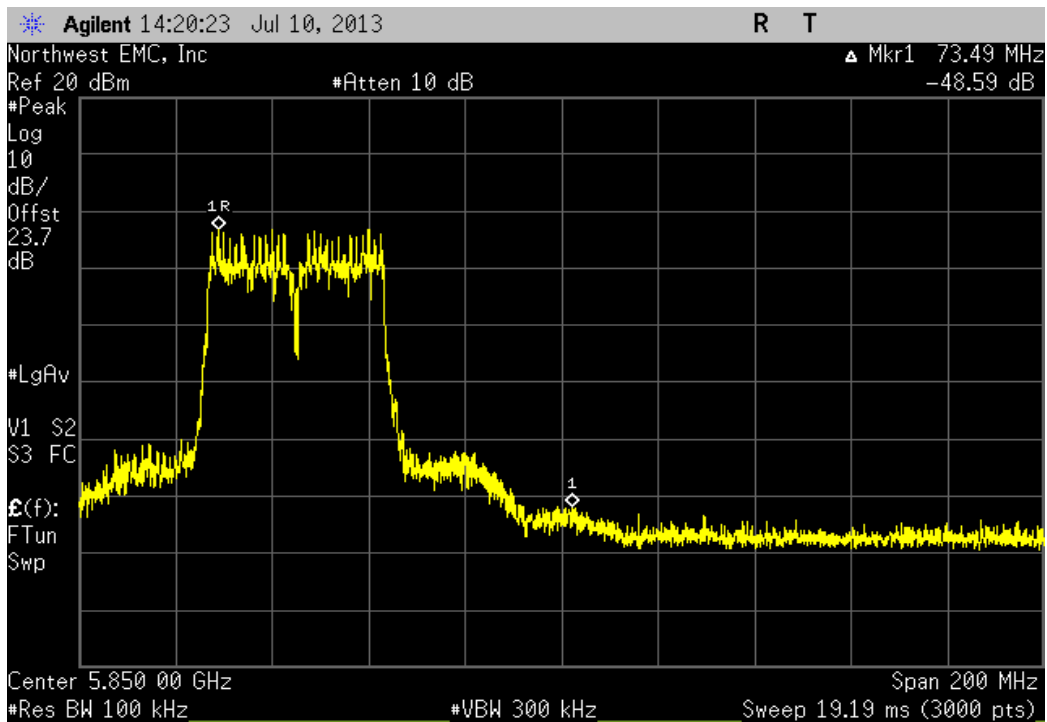
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -37.24 dBc | ≤ -20 dBc | Pass   |



Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -48.59 dBc | ≤ -20 dBc | Pass   |



## Band Edge Compliance - Antenna A

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

### TEST EQUIPMENT

| Description       | Manufacturer       | Model            | ID  | Last Cal. | Interval |
|-------------------|--------------------|------------------|-----|-----------|----------|
| Signal Generator  | Agilent            | N5183A           | TID | 9/19/2011 | 36       |
| Attenuator        | Fairview Microwave | SA4014-20        | TKE | 2/12/2013 | 12       |
| Spectrum Analyzer | Agilent            | E4446A           | AAT | 6/28/2012 | 24       |
| NC02 Cable        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 7/3/2013  | 12       |

### TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

DC Block was used in-line for measurements made while under test. For channel output power levels, please refer to the accompanying power table included in this report.



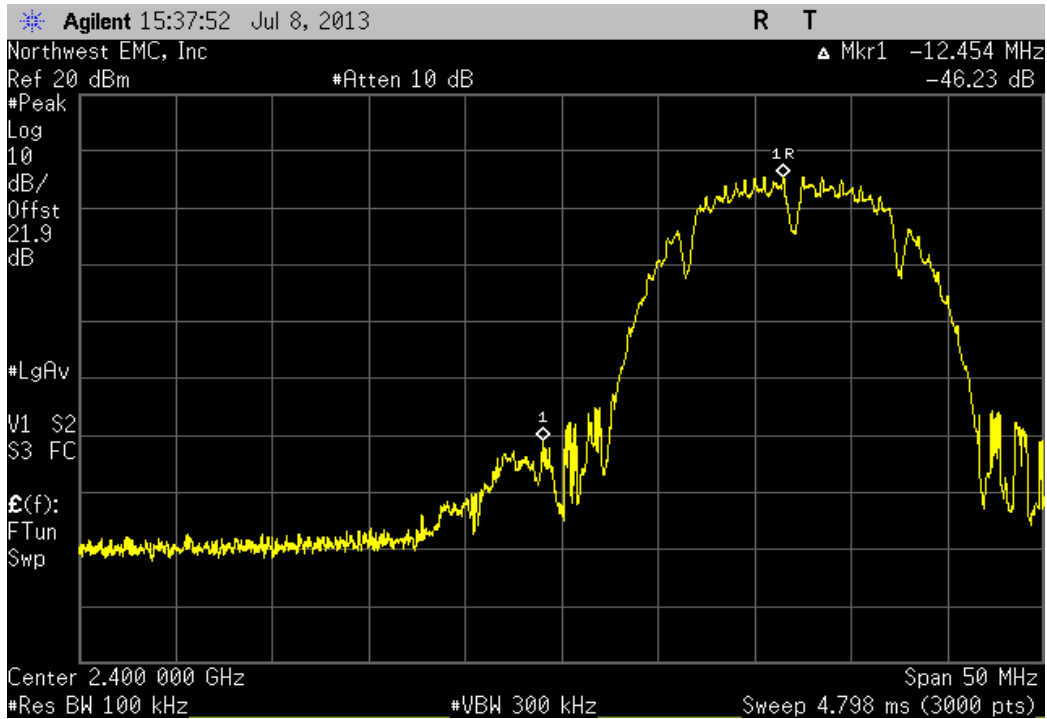
## Band Edge Compliance - Antenna A

XMit 2013.02.28  
PsaTx 2013.06.07

|                                                                                                                                                                        |   |                                                                                             |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|-----------|
| EUT: 1601                                                                                                                                                              |   | Work Order: MCSO1665                                                                        |           |
| Serial Number: 006079632553                                                                                                                                            |   | Date: 07/09/13                                                                              |           |
| Customer: Microsoft Corporation                                                                                                                                        |   | Temperature: 23°C                                                                           |           |
| Attendees: None                                                                                                                                                        |   | Humidity: 45%                                                                               |           |
| Project: None                                                                                                                                                          |   | Barometric Pres.: 1020 mb                                                                   |           |
| Tested by: Richard Mellroth, Brandon Hobbs                                                                                                                             |   | Power: 110VAC/60Hz                                                                          |           |
| TEST SPECIFICATIONS                                                                                                                                                    |   | Test Method                                                                                 |           |
| FCC 15.247:2013                                                                                                                                                        |   | ANSI C63.10:2009                                                                            |           |
| COMMENTS                                                                                                                                                               |   |                                                                                             |           |
| EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset. |   |                                                                                             |           |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                          |   |                                                                                             |           |
| None                                                                                                                                                                   |   |                                                                                             |           |
| Configuration #                                                                                                                                                        | 1 | Signature  |           |
|                                                                                                                                                                        |   | Value                                                                                       | Limit     |
|                                                                                                                                                                        |   |                                                                                             | Result    |
| 20 MHz                                                                                                                                                                 |   |                                                                                             |           |
| 2400 MHz - 2483.5 MHz Band                                                                                                                                             |   |                                                                                             |           |
| 802.11(b) 1 Mbps                                                                                                                                                       |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -46.23 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -62.08 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(b) 11 Mbps                                                                                                                                                      |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -44.32 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -62.81 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(g) 6 Mbps                                                                                                                                                       |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -34.99 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -47.62 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(g) 36 Mbps                                                                                                                                                      |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -37.52 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -48.57 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(g) 54 Mbps                                                                                                                                                      |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -37.06 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -47.85 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(n) MCS0                                                                                                                                                         |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -34.74 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -46.82 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(n) MCS7                                                                                                                                                         |   |                                                                                             |           |
| Low Channel 1, 2412 MHz                                                                                                                                                |   | -35.76 dBc                                                                                  | ≤ -20 dBc |
| High Channel 11, 2462 MHz                                                                                                                                              |   | -46.68 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 5725 MHz - 5850 MHz Band                                                                                                                                               |   |                                                                                             |           |
| 802.11(a) 6 Mbps                                                                                                                                                       |   |                                                                                             |           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | -45.52 dBc                                                                                  | ≤ -20 dBc |
| High Channel 165, 5825 MHz                                                                                                                                             |   | -53.16 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(a) 36 Mbps                                                                                                                                                      |   |                                                                                             |           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | -46.9 dBc                                                                                   | ≤ -20 dBc |
| High Channel 165, 5825 MHz                                                                                                                                             |   | -53.21 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(a) 54 Mbps                                                                                                                                                      |   |                                                                                             |           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | -45.87 dBc                                                                                  | ≤ -20 dBc |
| High Channel 165, 5825 MHz                                                                                                                                             |   | -54.84 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(n) MCS0 - UNII                                                                                                                                                  |   |                                                                                             |           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | -42.99 dBc                                                                                  | ≤ -20 dBc |
| High Channel 165, 5825 MHz                                                                                                                                             |   | -53.54 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(n) MCS7 - UNII                                                                                                                                                  |   |                                                                                             |           |
| Low Channel 149, 5745 MHz                                                                                                                                              |   | -42.46 dBc                                                                                  | ≤ -20 dBc |
| High Channel 165, 5825 MHz                                                                                                                                             |   | -53.52 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 40 MHz                                                                                                                                                                 |   |                                                                                             |           |
| 2400 MHz - 2483.5 MHz Band                                                                                                                                             |   |                                                                                             |           |
| 802.11(n) MCS0                                                                                                                                                         |   |                                                                                             |           |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | -33.64 dBc                                                                                  | ≤ -20 dBc |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | -33.34 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(n) MCS7                                                                                                                                                         |   |                                                                                             |           |
| Low Channel 1/5, 2422 MHz                                                                                                                                              |   | -30.33 dBc                                                                                  | ≤ -20 dBc |
| High Channel 7/11, 2452 MHz                                                                                                                                            |   | -31.03 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 5725 MHz - 5850 MHz Band                                                                                                                                               |   |                                                                                             |           |
| 802.11(n) MCS0 - UNII                                                                                                                                                  |   |                                                                                             |           |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | -36.09 dBc                                                                                  | ≤ -20 dBc |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | -52.04 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |
| 802.11(n) MCS7 - UNII                                                                                                                                                  |   |                                                                                             |           |
| Low Channel 149/153, 5755 MHz                                                                                                                                          |   | -35.16 dBc                                                                                  | ≤ -20 dBc |
| High Channel 157/161, 5795 MHz                                                                                                                                         |   | -50.78 dBc                                                                                  | ≤ -20 dBc |
|                                                                                                                                                                        |   |                                                                                             | Pass      |

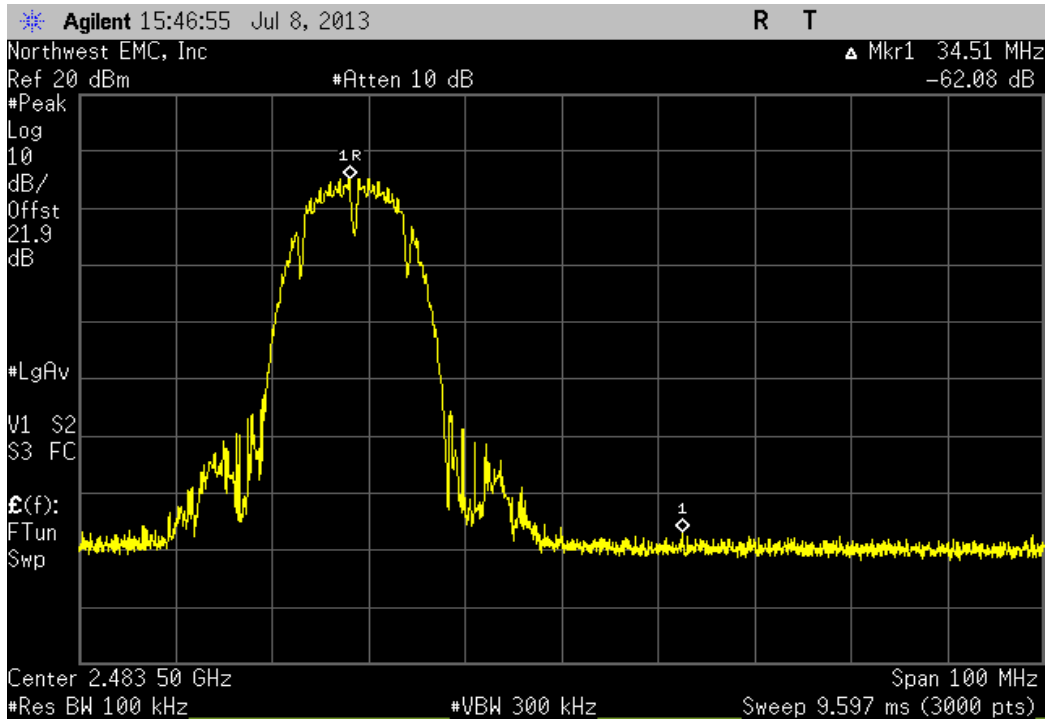
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -46.23 dBc | ≤ -20 dBc | Pass   |



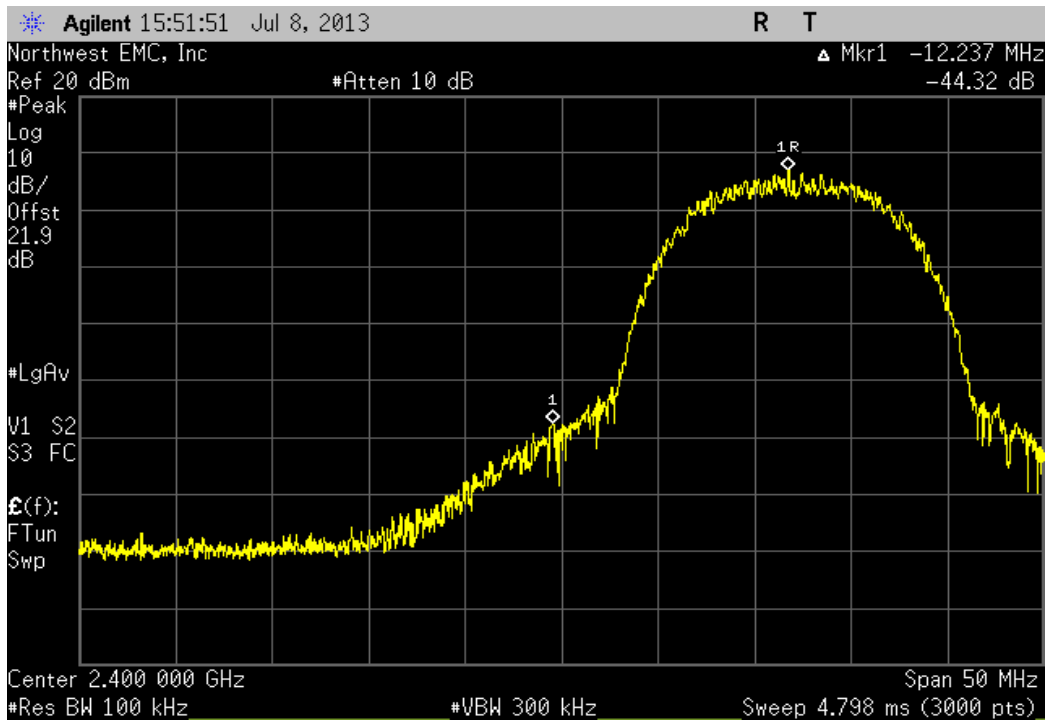
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -62.08 dBc | ≤ -20 dBc | Pass   |



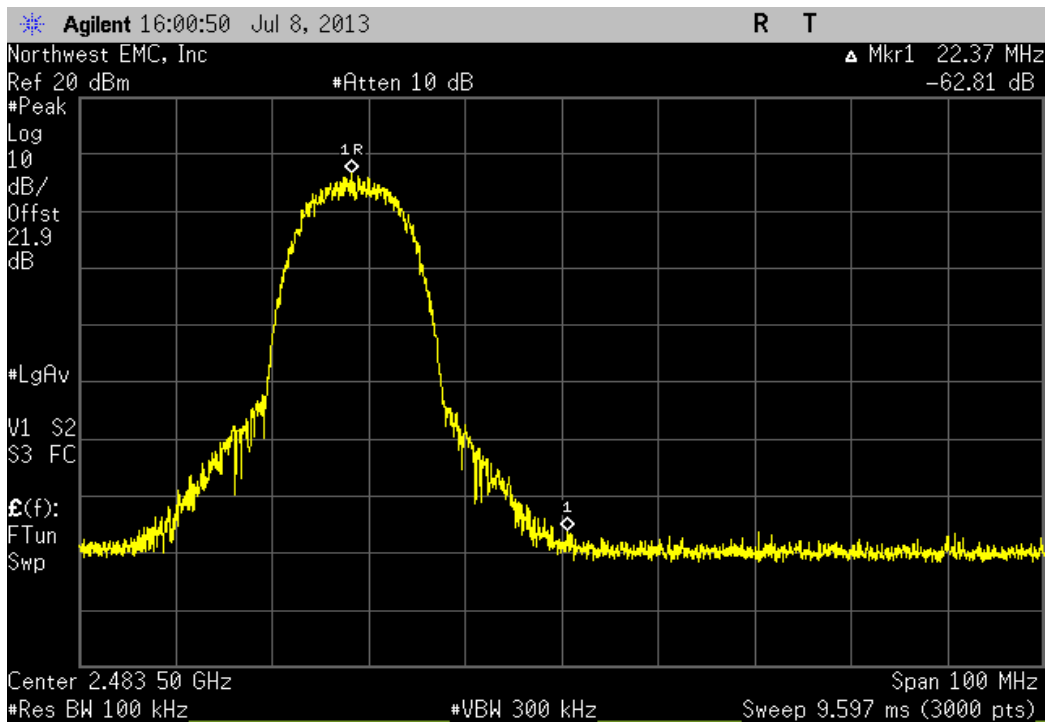
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -44.32 dBc | ≤ -20 dBc | Pass   |



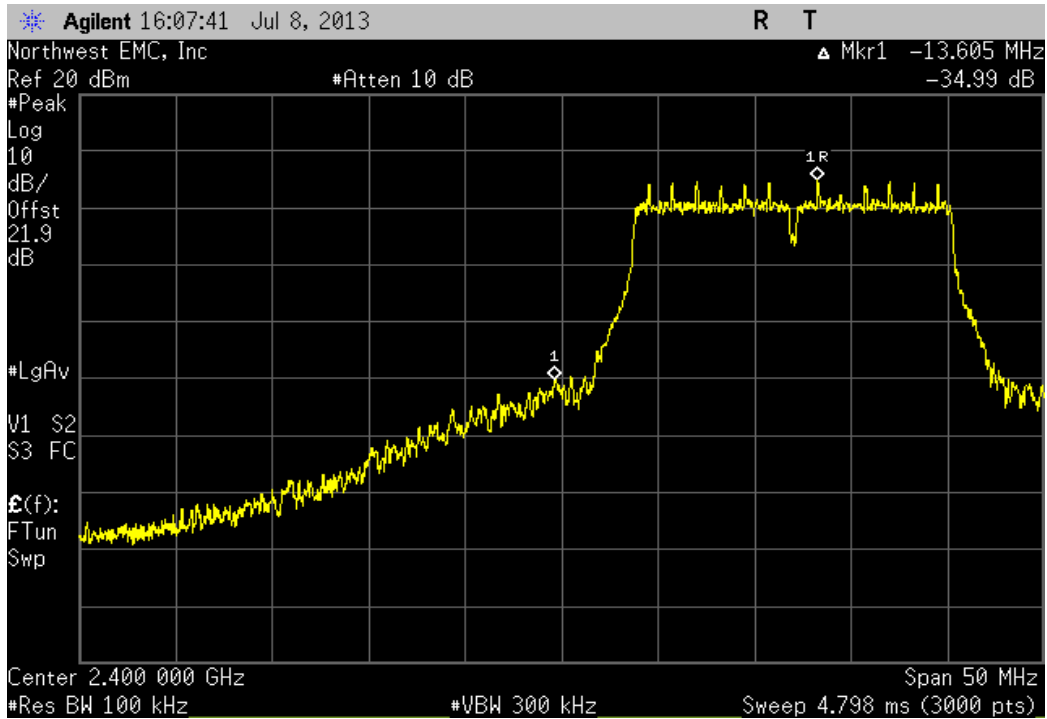
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -62.81 dBc | ≤ -20 dBc | Pass   |



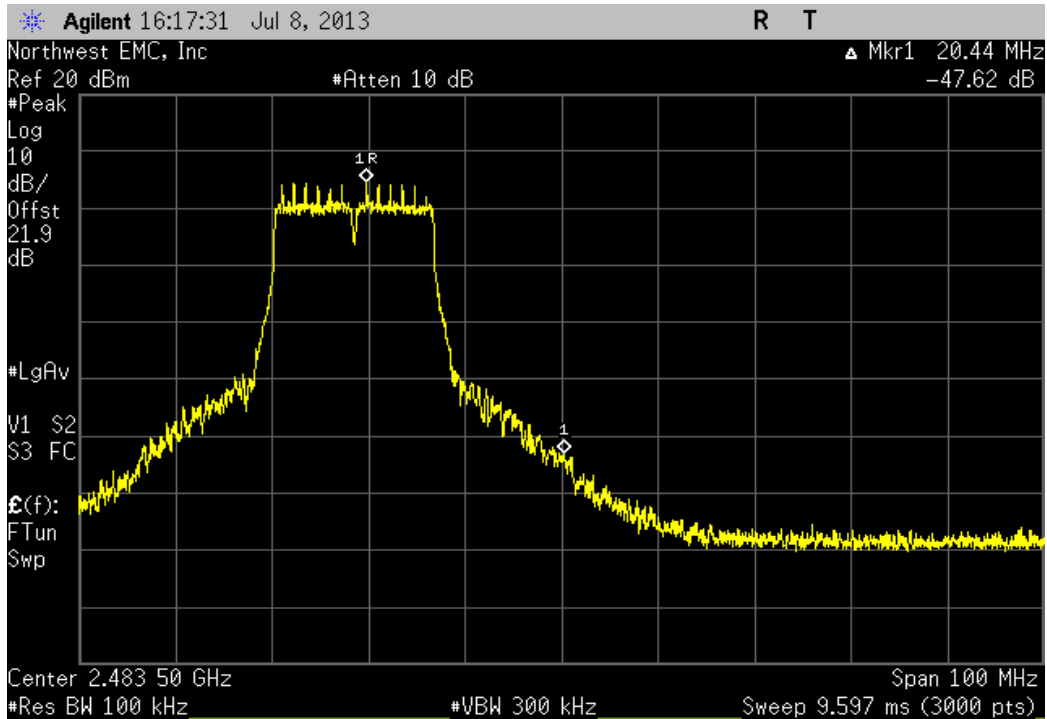
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -34.99 dBc | ≤ -20 dBc | Pass   |



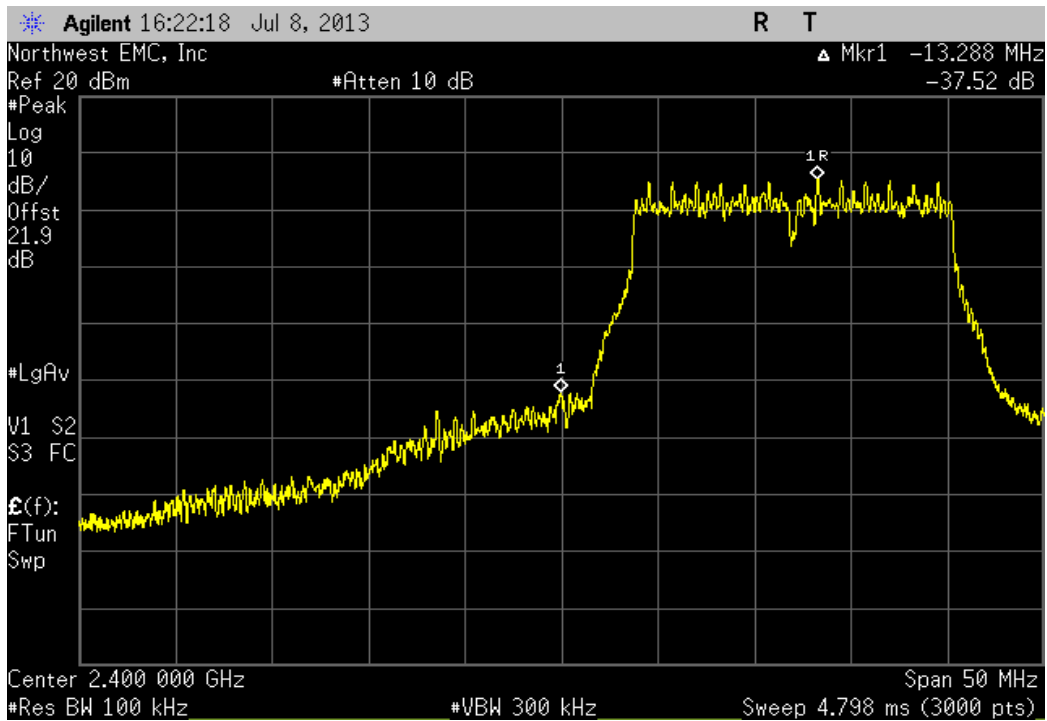
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -47.62 dBc | ≤ -20 dBc | Pass   |



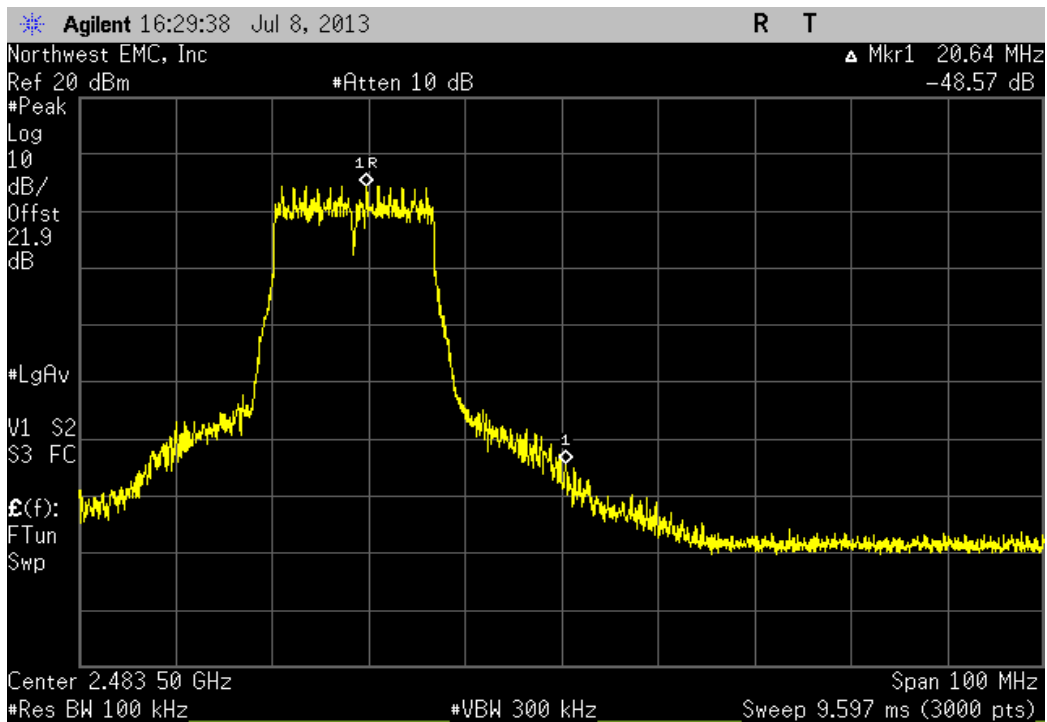
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -37.52 dBc | ≤ -20 dBc | Pass   |



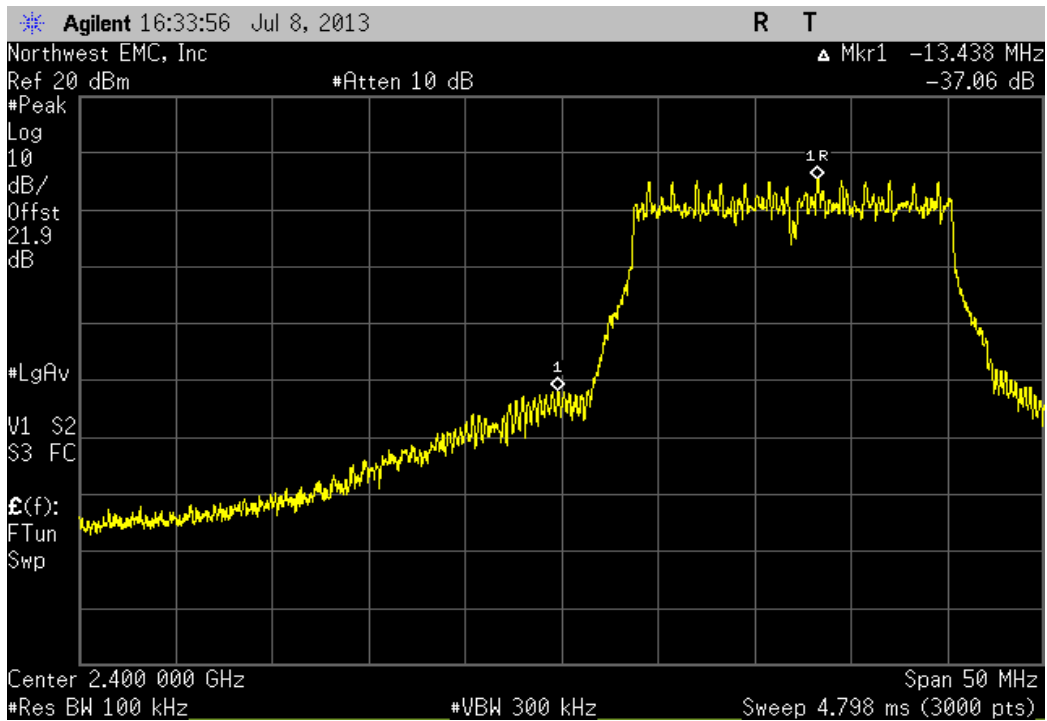
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -48.57 dBc | ≤ -20 dBc | Pass   |



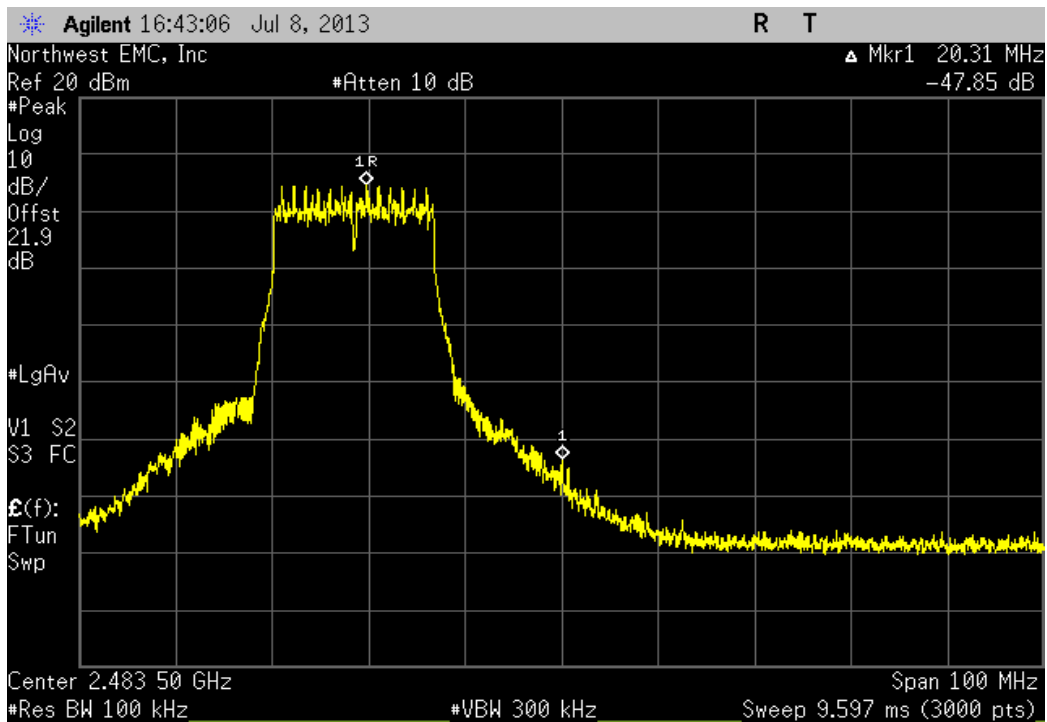
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -37.06 dBc | ≤ -20 dBc | Pass   |



20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

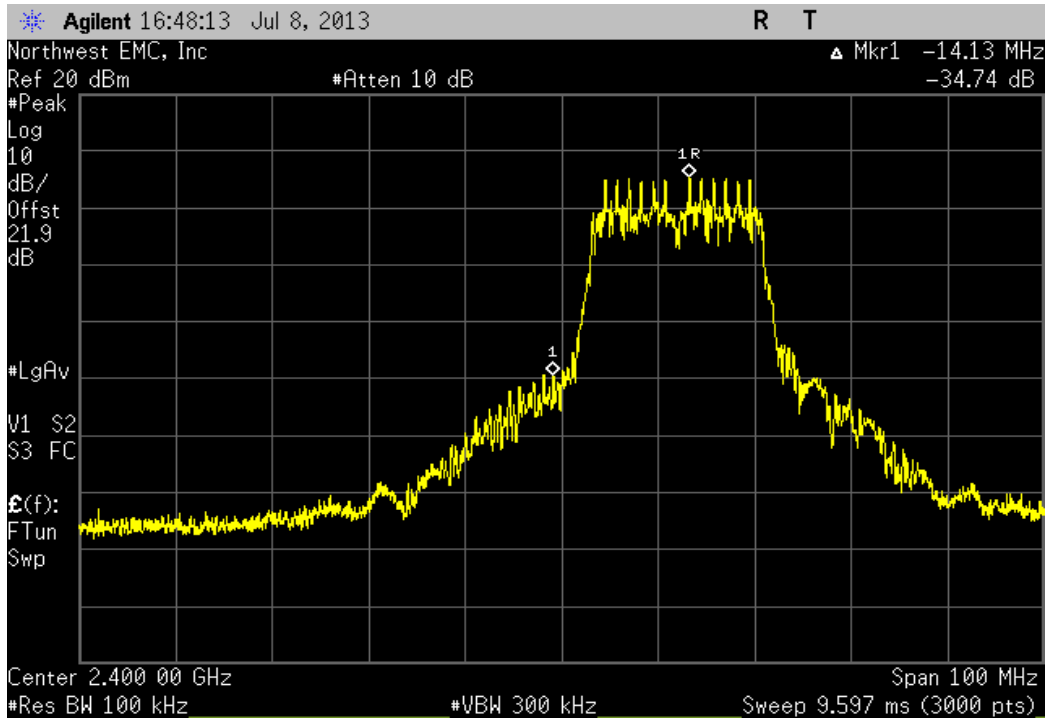
| Value      | Limit     | Result |
|------------|-----------|--------|
| -47.85 dBc | ≤ -20 dBc | Pass   |





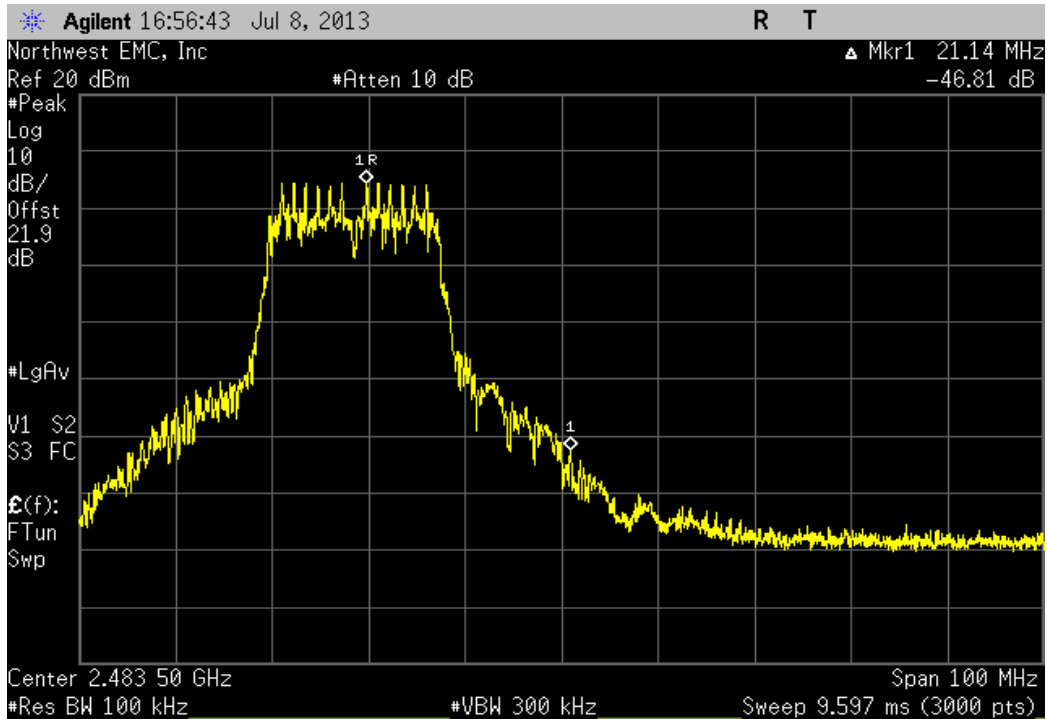
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -34.74 dBc | ≤ -20 dBc | Pass   |



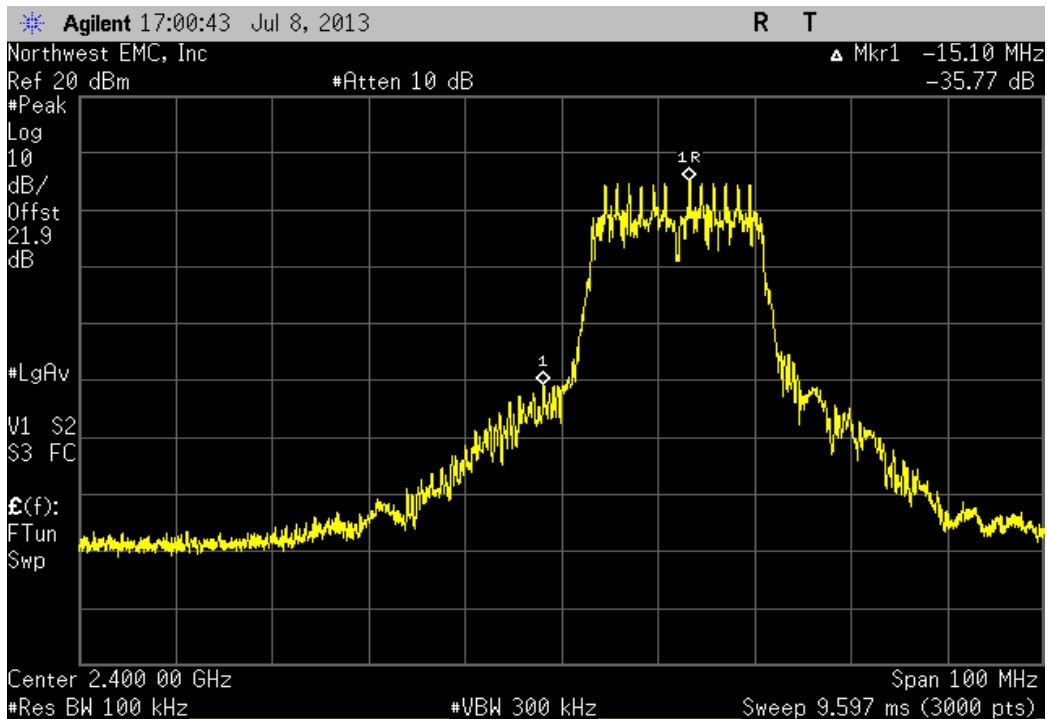
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -46.82 dBc | ≤ -20 dBc | Pass   |



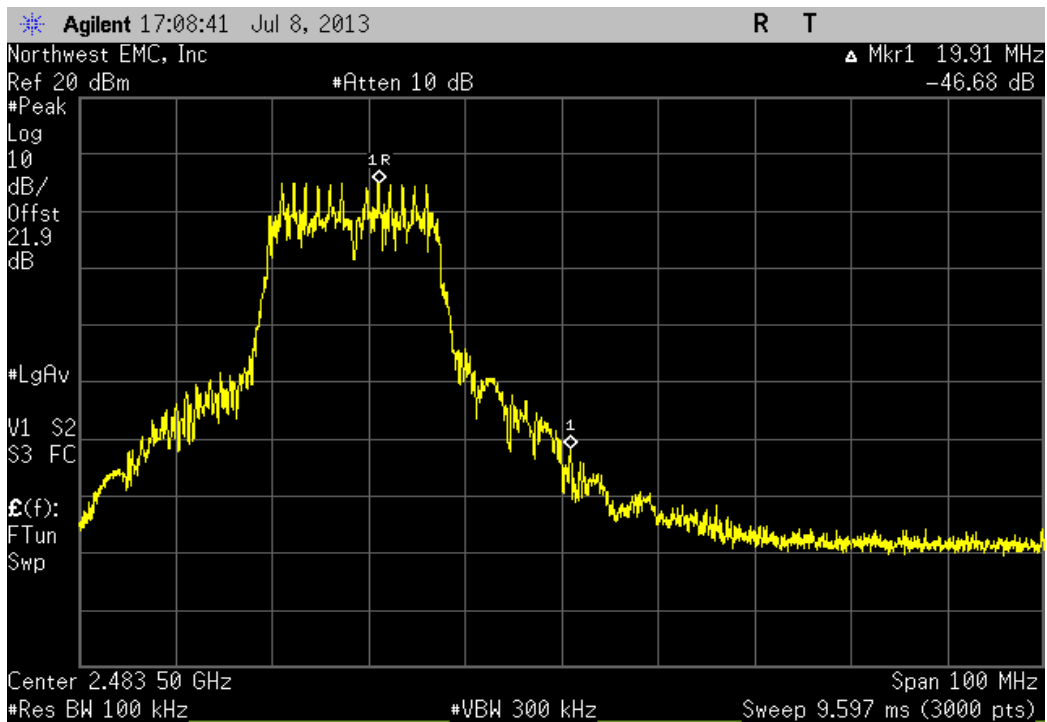
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -35.76 dBc | ≤ -20 dBc | Pass   |



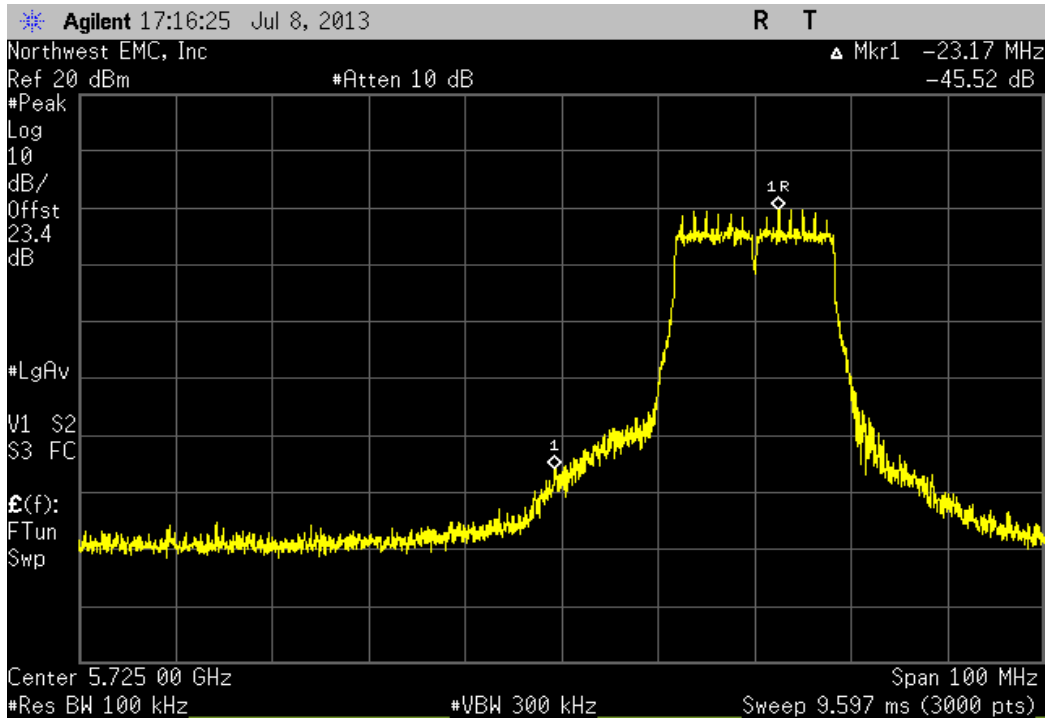
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -46.68 dBc | ≤ -20 dBc | Pass   |



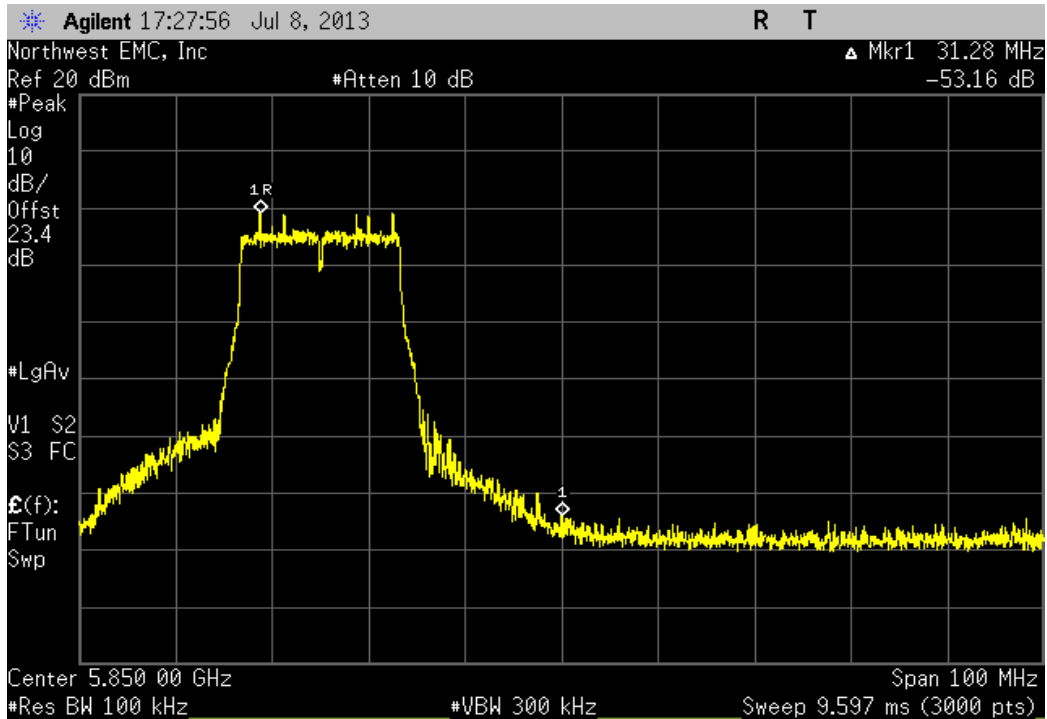
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -45.52 dBc | ≤ -20 dBc | Pass   |



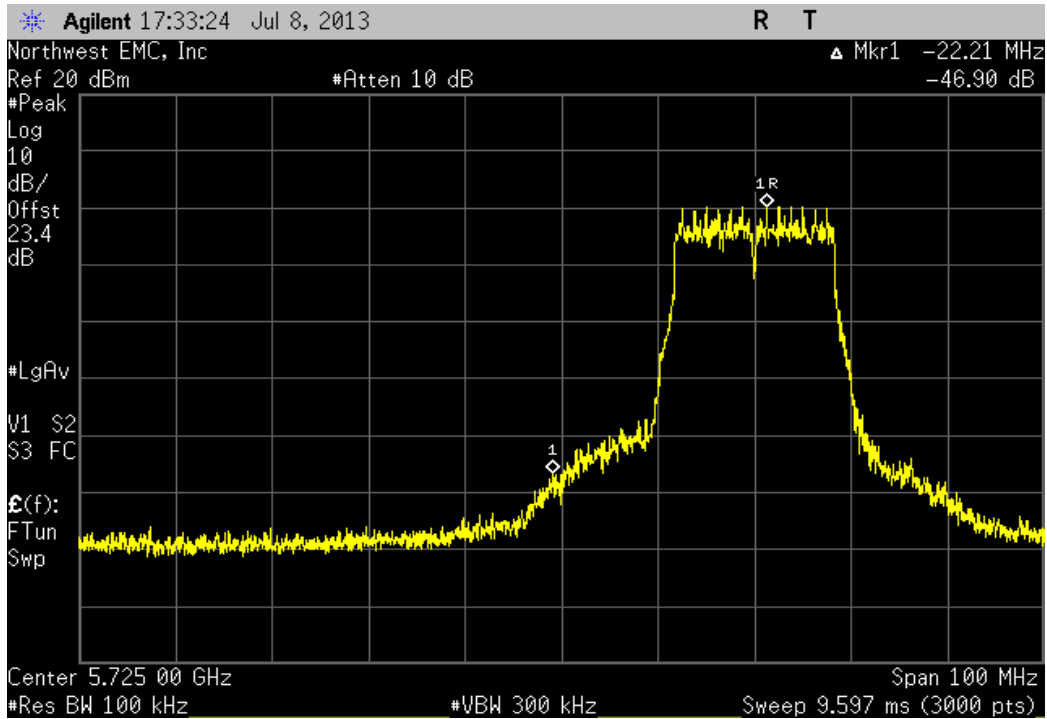
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.16 dBc | ≤ -20 dBc | Pass   |



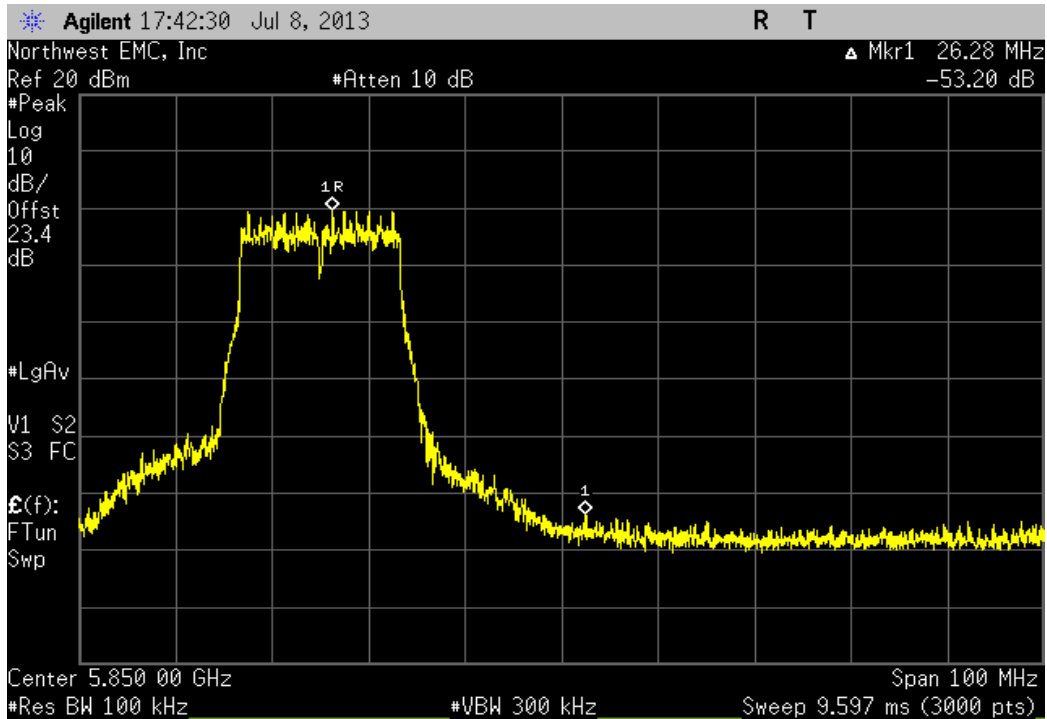
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

| Value     | Limit     | Result |
|-----------|-----------|--------|
| -46.9 dBc | ≤ -20 dBc | Pass   |



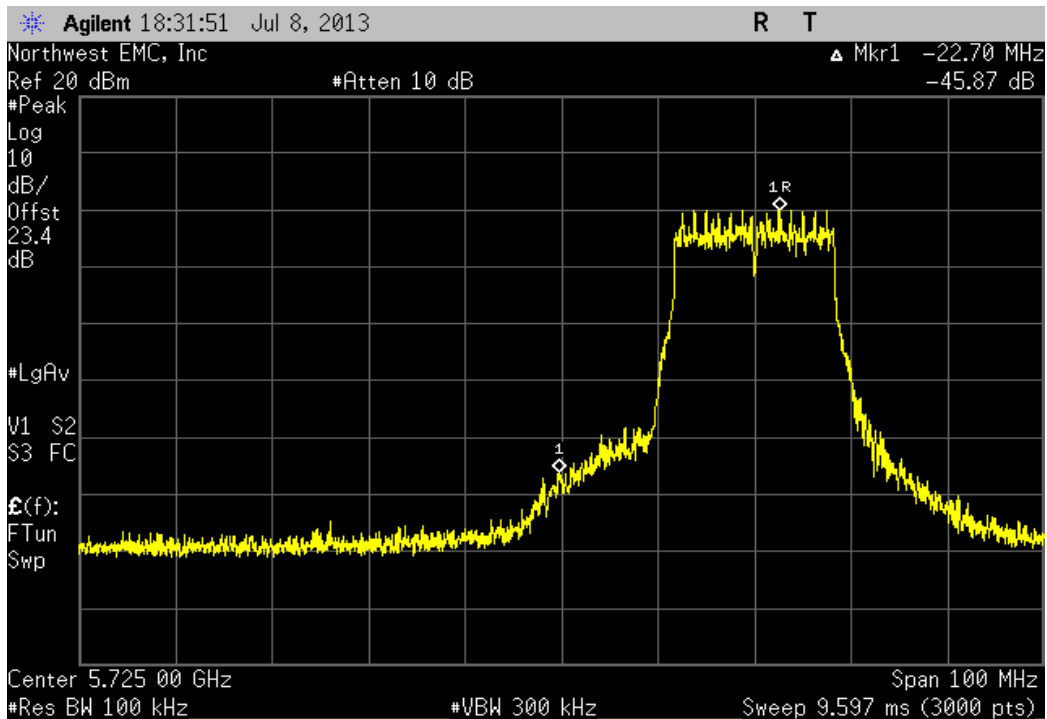
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.21 dBc | ≤ -20 dBc | Pass   |



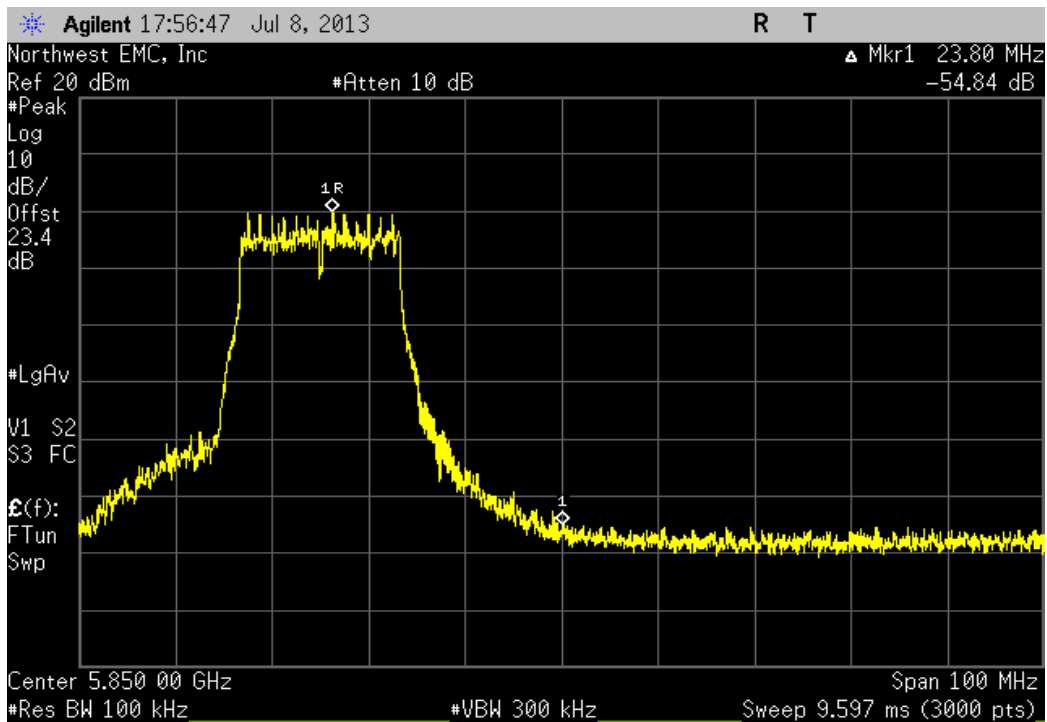
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -45.87 dBc | ≤ -20 dBc | Pass   |



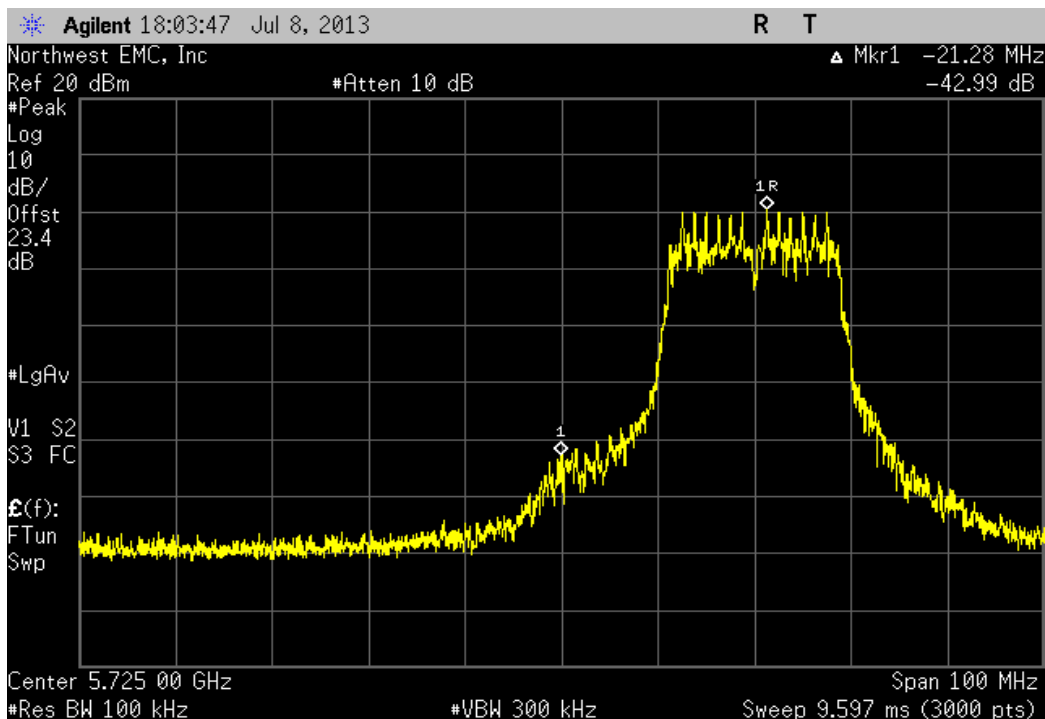
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -54.84 dBc | ≤ -20 dBc | Pass   |



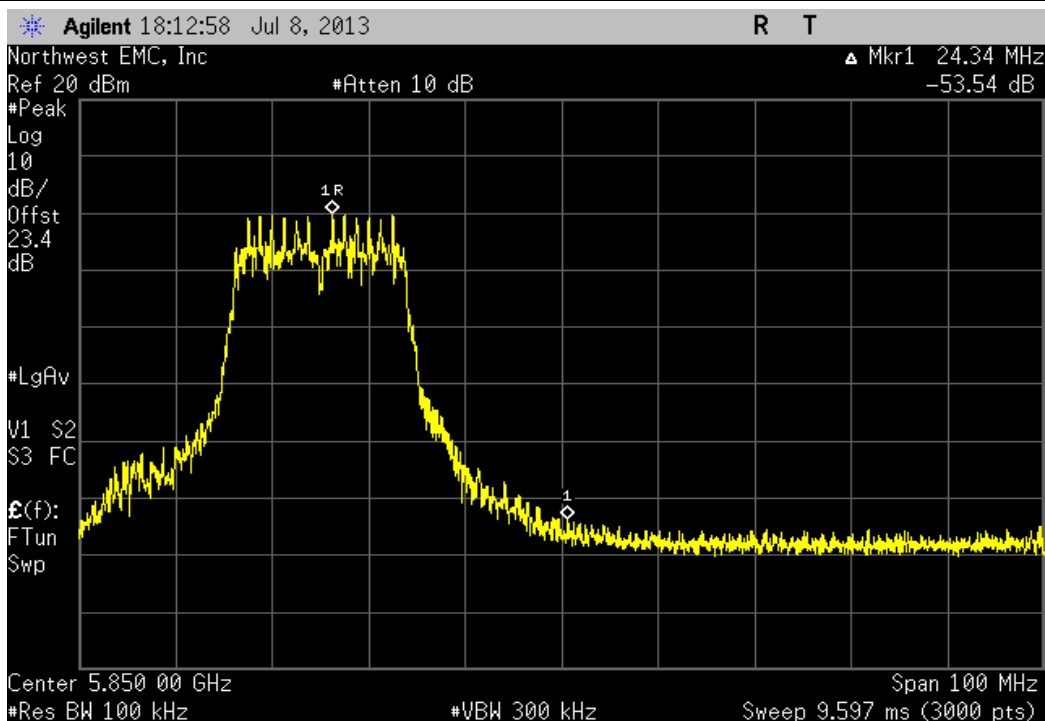
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -42.99 dBc | ≤ -20 dBc | Pass   |



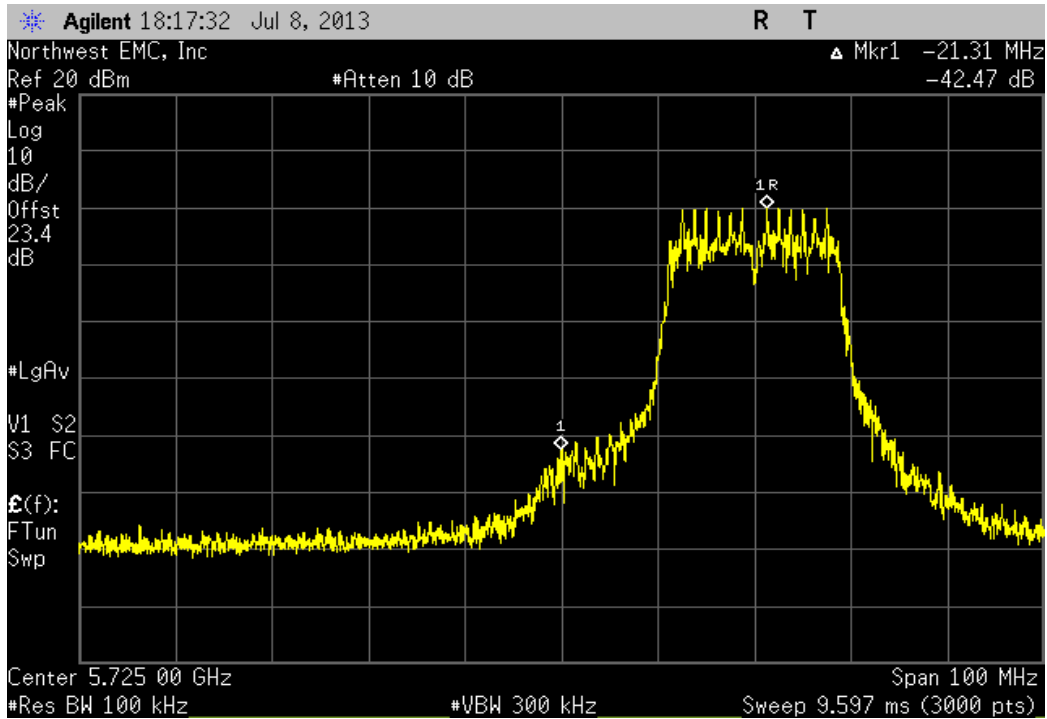
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.54 dBc | ≤ -20 dBc | Pass   |



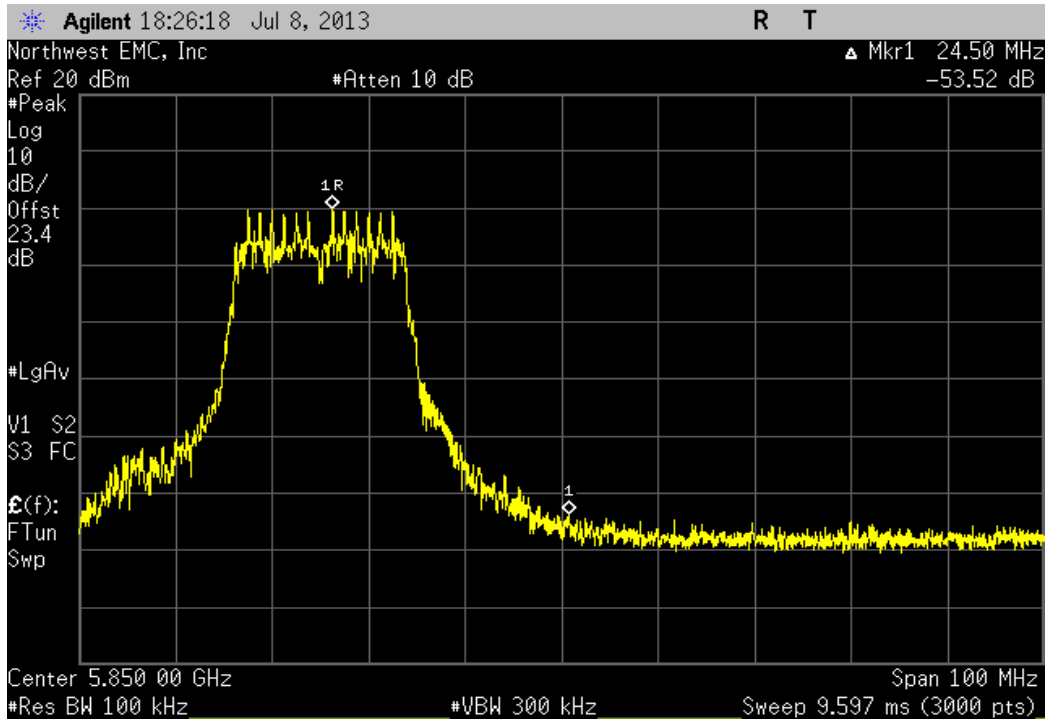
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -42.46 dBc | ≤ -20 dBc | Pass   |



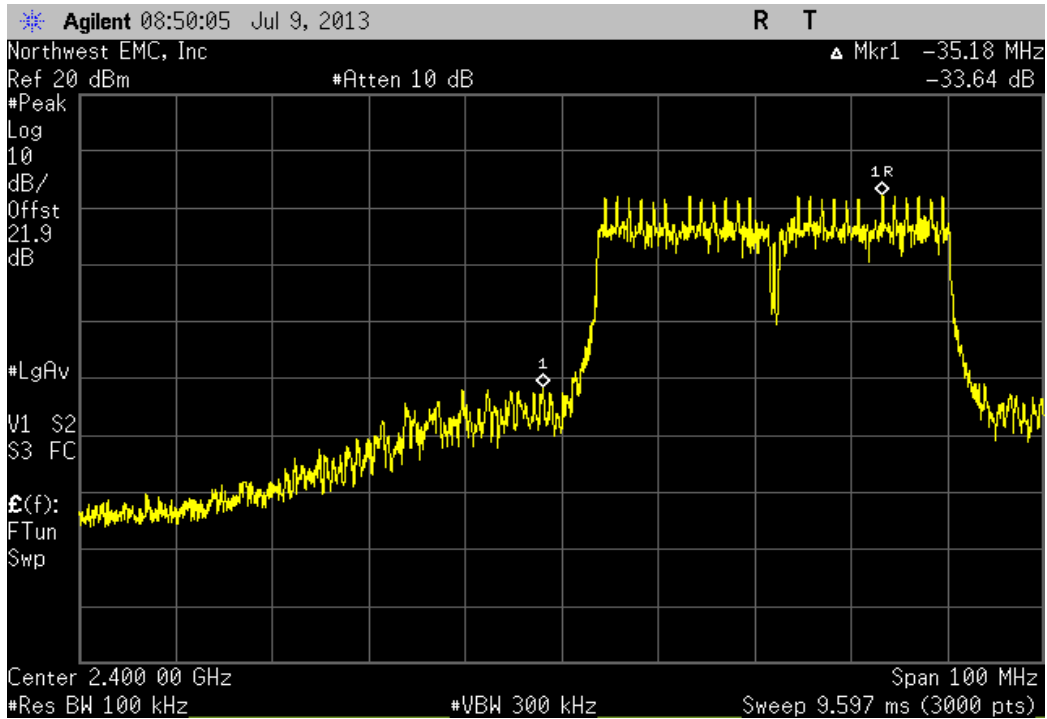
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.52 dBc | ≤ -20 dBc | Pass   |



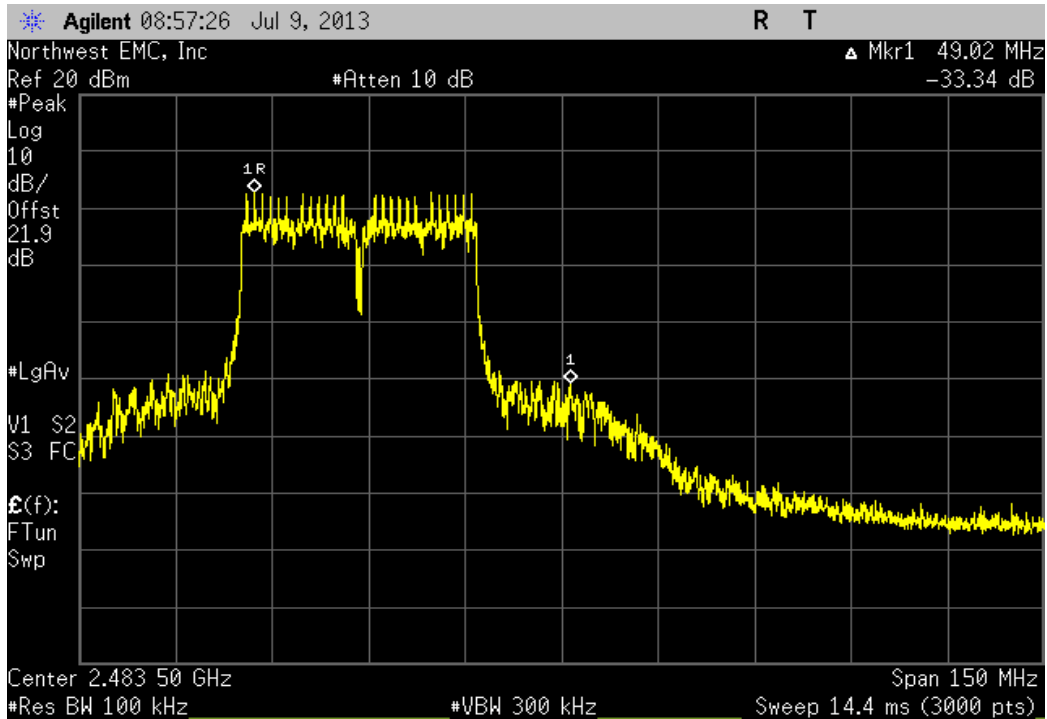
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -33.64 dBc | ≤ -20 dBc | Pass   |



40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz

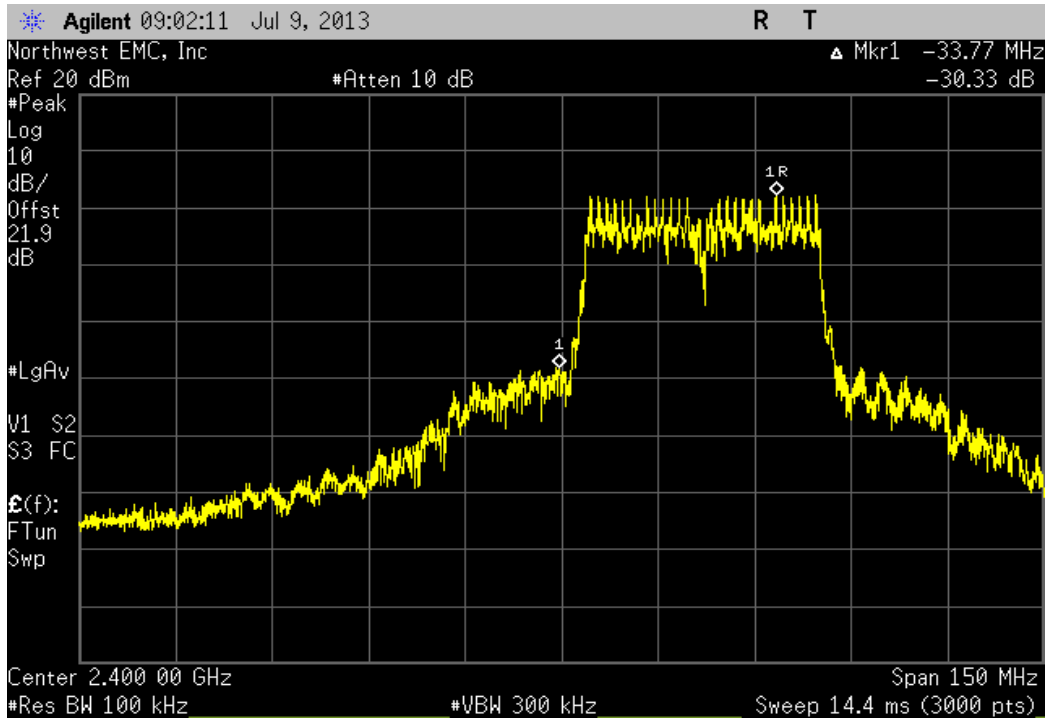
| Value      | Limit     | Result |
|------------|-----------|--------|
| -33.34 dBc | ≤ -20 dBc | Pass   |





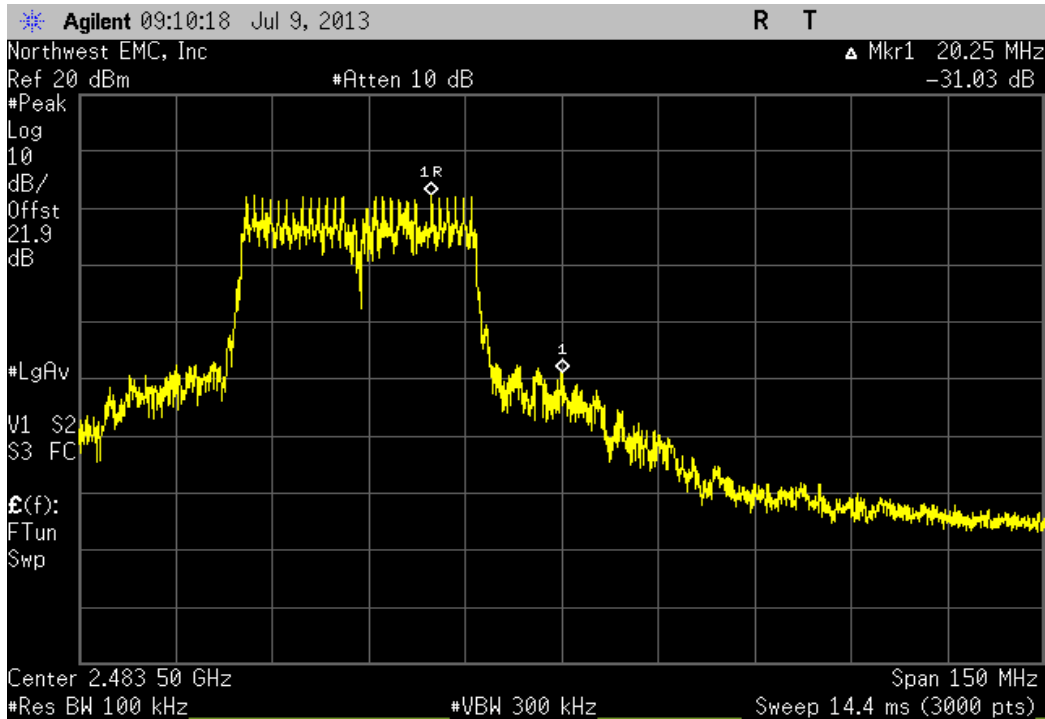
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -30.33 dBc | ≤ -20 dBc | Pass   |



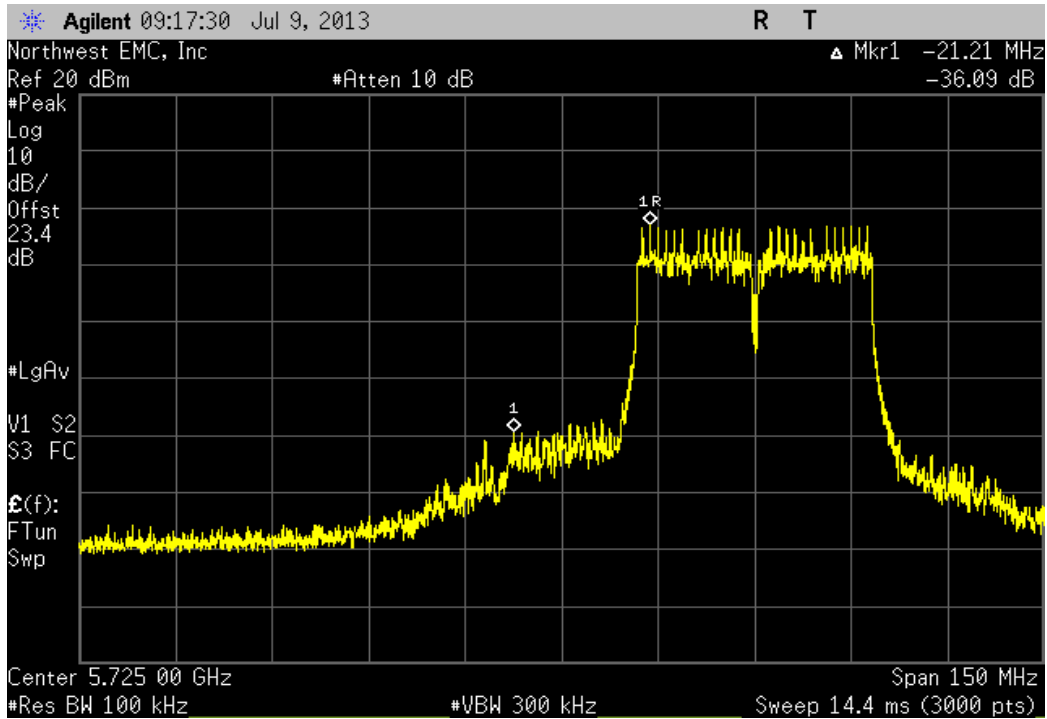
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -31.03 dBc | ≤ -20 dBc | Pass   |



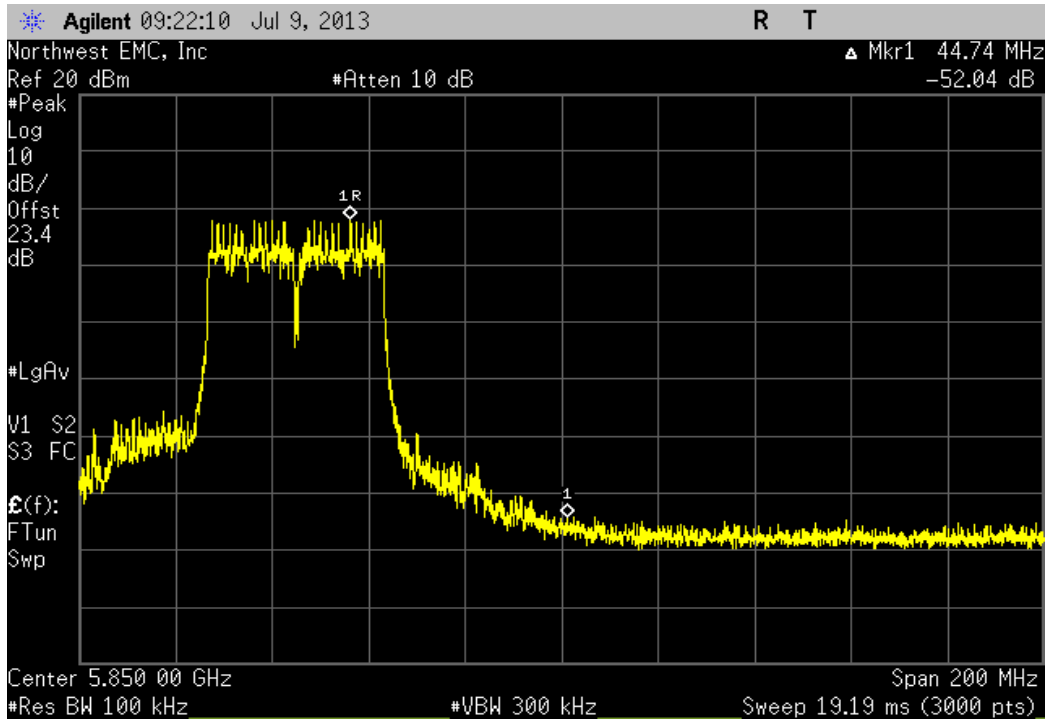
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz

|  | Value      | Limit     | Result |
|--|------------|-----------|--------|
|  | -36.09 dBc | ≤ -20 dBc | Pass   |



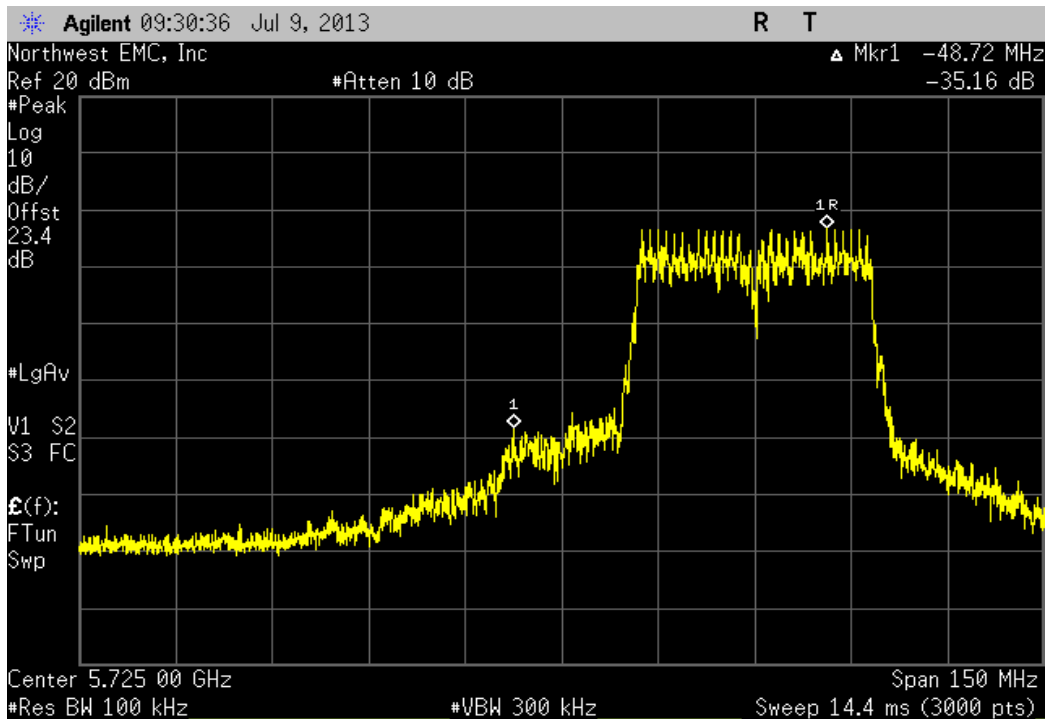
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz

|  | Value      | Limit     | Result |
|--|------------|-----------|--------|
|  | -52.04 dBc | ≤ -20 dBc | Pass   |



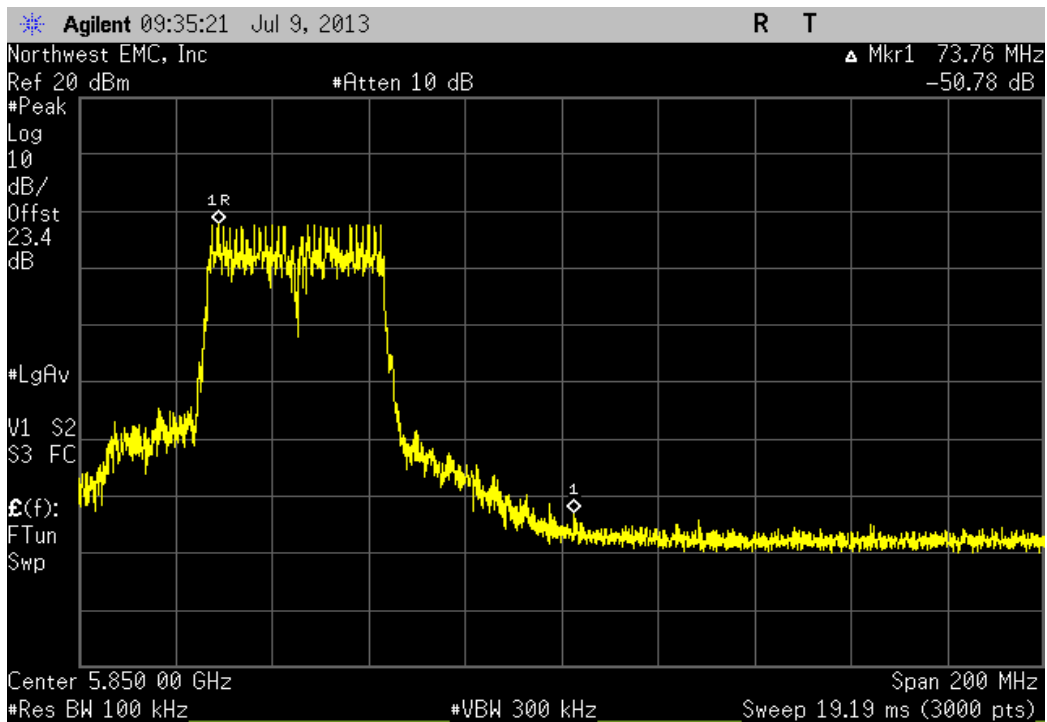
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -35.16 dBc | ≤ -20 dBc | Pass   |



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -50.78 dBc | ≤ -20 dBc | Pass   |



## Band Edge Compliance - Antenna B

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

### TEST EQUIPMENT

| Description       | Manufacturer       | Model            | ID  | Last Cal. | Interval |
|-------------------|--------------------|------------------|-----|-----------|----------|
| Signal Generator  | Agilent            | N5183A           | TID | 9/19/2011 | 36       |
| Attenuator        | Fairview Microwave | SA4014-20        | TKE | 2/12/2013 | 12       |
| Spectrum Analyzer | Agilent            | E4446A           | AAT | 6/28/2012 | 24       |
| NC02 Cable        | ESM Cable Corp.    | TTBJ-141 KMKM-72 | NC5 | 7/3/2013  | 12       |

### TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

DC Block was used in-line for measurements made while under test. For channel output power levels, please refer to the accompanying power table included in this report.



## Band Edge Compliance - Antenna B

XMit 2013.02.28  
PsaTx 2013.06.07

|                                            |                           |
|--------------------------------------------|---------------------------|
| EUT: 1601                                  | Work Order: MCSO1665      |
| Serial Number: 006079632553                | Date: 07/09/13            |
| Customer: Microsoft Corporation            | Temperature: 23°C         |
| Attendees: None                            | Humidity: 45%             |
| Project: None                              | Barometric Pres.: 1020 mb |
| Tested by: Richard Mellroth, Brandon Hobbs | Power: 110VAC/60Hz        |
| TEST SPECIFICATIONS                        |                           |
| FCC 15.247:2013                            |                           |
| ANSI C63.10:2009                           |                           |
| TEST METHOD                                |                           |
| Job Site: NC02                             |                           |

### COMMENTS

EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.

### DEVIATIONS FROM TEST STANDARD

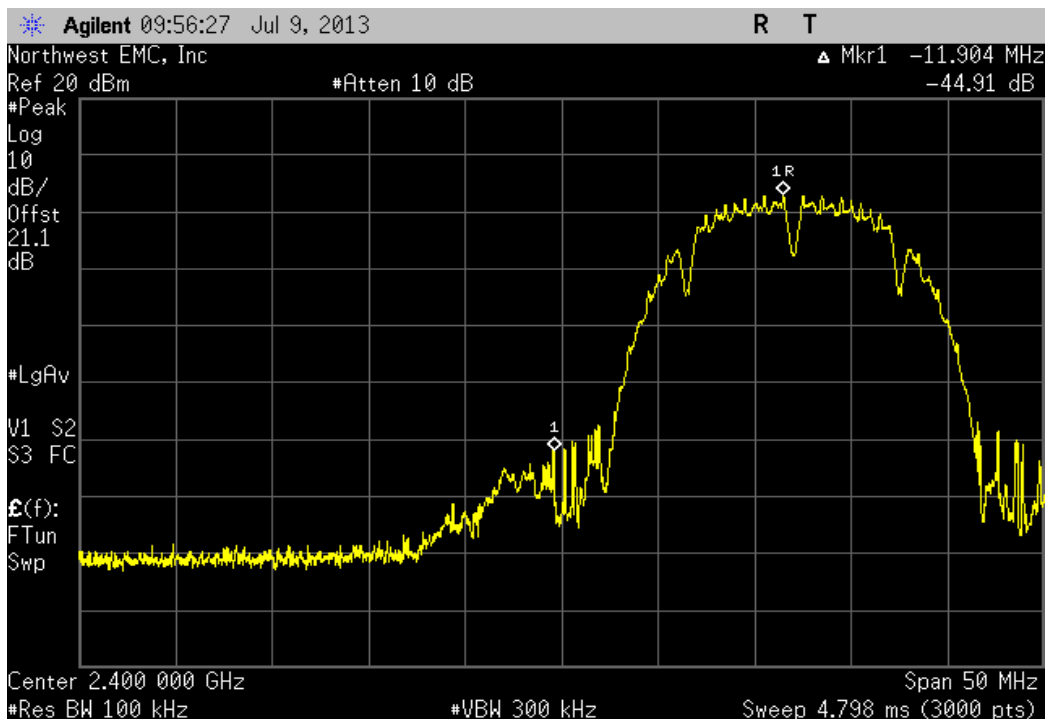
None

|                 |   |                                                                                              |
|-----------------|---|----------------------------------------------------------------------------------------------|
| Configuration # | 1 | Signature  |
|-----------------|---|----------------------------------------------------------------------------------------------|

|                                | Value      | Limit     | Result |
|--------------------------------|------------|-----------|--------|
| 20 MHz                         |            |           |        |
| 2400 MHz - 2483.5 MHz Band     |            |           |        |
| 802.11(b) 1 Mbps               |            |           |        |
| Low Channel 1, 2412 MHz        | -44.91 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -60.08 dBc | ≤ -20 dBc | Pass   |
| 802.11(b) 11 Mbps              |            |           |        |
| Low Channel 1, 2412 MHz        | -44.44 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -61.97 dBc | ≤ -20 dBc | Pass   |
| 802.11(g) 6 Mbps               |            |           |        |
| Low Channel 1, 2412 MHz        | -38.89 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -52.42 dBc | ≤ -20 dBc | Pass   |
| 802.11(g) 36 Mbps              |            |           |        |
| Low Channel 1, 2412 MHz        | -40.85 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -54.31 dBc | ≤ -20 dBc | Pass   |
| 802.11(g) 54 Mbps              |            |           |        |
| Low Channel 1, 2412 MHz        | -37.9 dBc  | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -52.83 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS0                 |            |           |        |
| Low Channel 1, 2412 MHz        | -36.58 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -50.68 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS7                 |            |           |        |
| Low Channel 1, 2412 MHz        | -56.89 dBc | ≤ -20 dBc | Pass   |
| High Channel 11, 2462 MHz      | -50.74 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band       |            |           |        |
| 802.11(a) 6 Mbps               |            |           |        |
| Low Channel 149, 5745 MHz      | -47.94 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -53.66 dBc | ≤ -20 dBc | Pass   |
| 802.11(a) 36 Mbps              |            |           |        |
| Low Channel 149, 5745 MHz      | -47.88 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -53.02 dBc | ≤ -20 dBc | Pass   |
| 802.11(a) 54 Mbps              |            |           |        |
| Low Channel 149, 5745 MHz      | -47.66 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -52.73 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS0 - UNII          |            |           |        |
| Low Channel 149, 5745 MHz      | -45.51 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -52.76 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS7 - UNII          |            |           |        |
| Low Channel 149, 5745 MHz      | -45.45 dBc | ≤ -20 dBc | Pass   |
| High Channel 165, 5825 MHz     | -53.38 dBc | ≤ -20 dBc | Pass   |
| 40 MHz                         |            |           |        |
| 2400 MHz - 2483.5 MHz Band     |            |           |        |
| 802.11(n) MCS0                 |            |           |        |
| Low Channel 1/5, 2422 MHz      | -36.56 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz    | -38.37 dBc | ≤ -20 dBc | Pass   |
| 802.11(n) MCS7                 |            |           |        |
| Low Channel 1/5, 2422 MHz      | -29.26 dBc | ≤ -20 dBc | Pass   |
| High Channel 7/11, 2452 MHz    | -34.38 dBc | ≤ -20 dBc | Pass   |
| 5725 MHz - 5850 MHz Band       |            |           |        |
| 802.11(n) MCS0 - UNII          |            |           |        |
| Low Channel 149/153, 5755 MHz  | -37.72 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz | -51.4 dBc  | ≤ -20 dBc | Pass   |
| 802.11(n) MCS7 - UNII          |            |           |        |
| Low Channel 149/153, 5755 MHz  | -34.96 dBc | ≤ -20 dBc | Pass   |
| High Channel 157/161, 5795 MHz | -49.55 dBc | ≤ -20 dBc | Pass   |

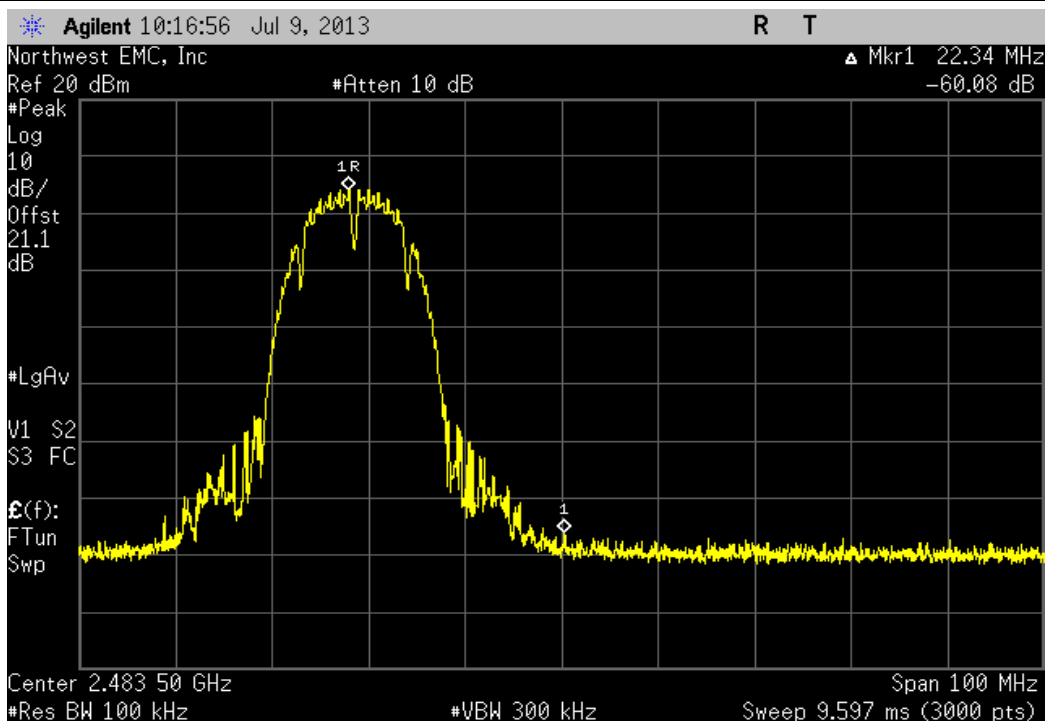
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -44.91 dBc | ≤ -20 dBc | Pass   |



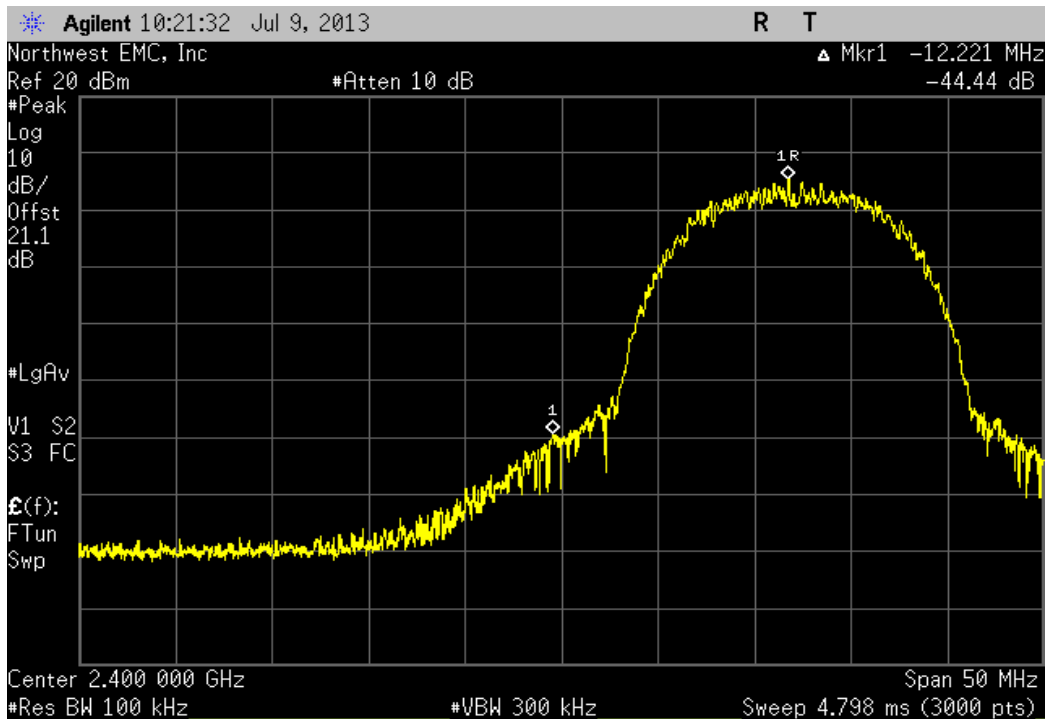
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -60.08 dBc | ≤ -20 dBc | Pass   |



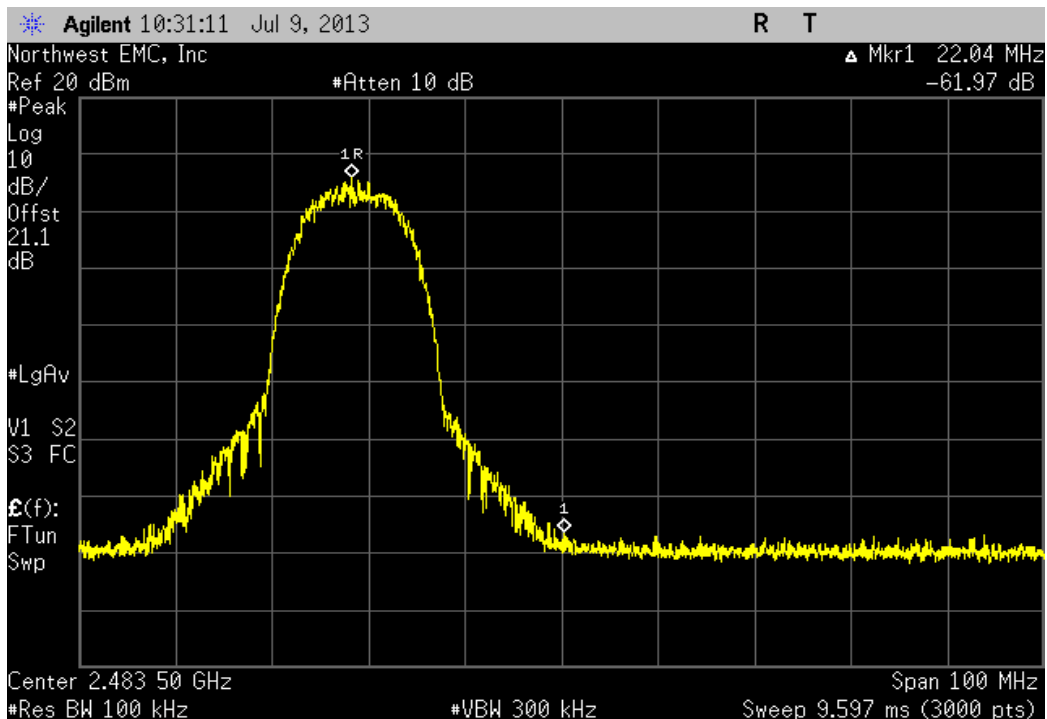
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -44.44 dBc | ≤ -20 dBc | Pass   |



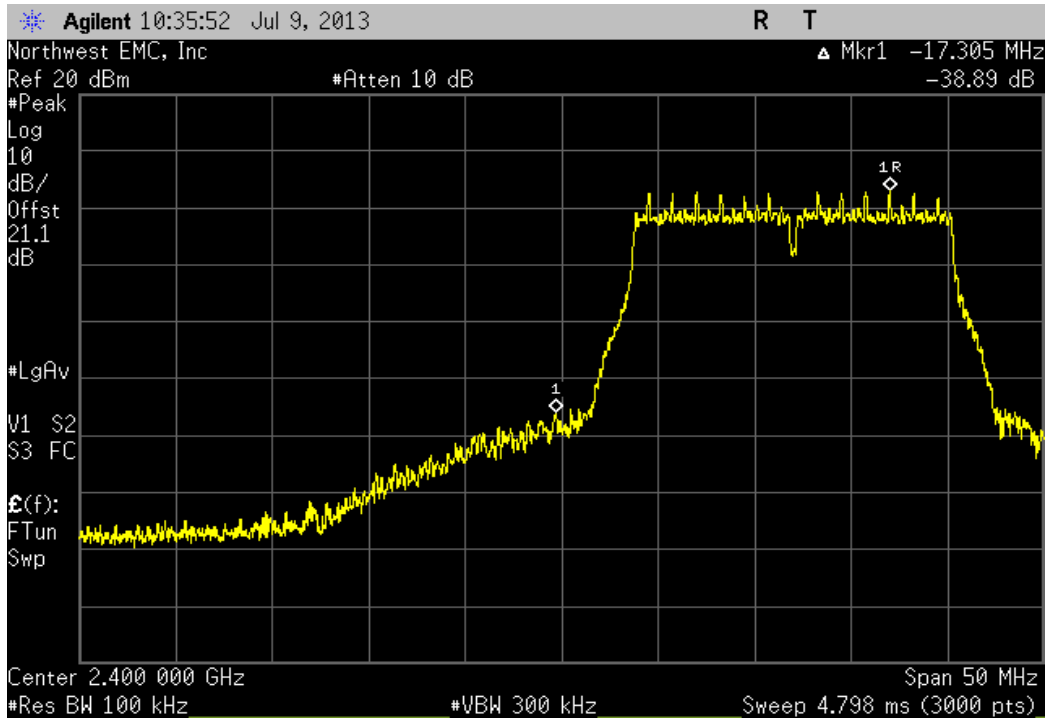
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -61.97 dBc | ≤ -20 dBc | Pass   |



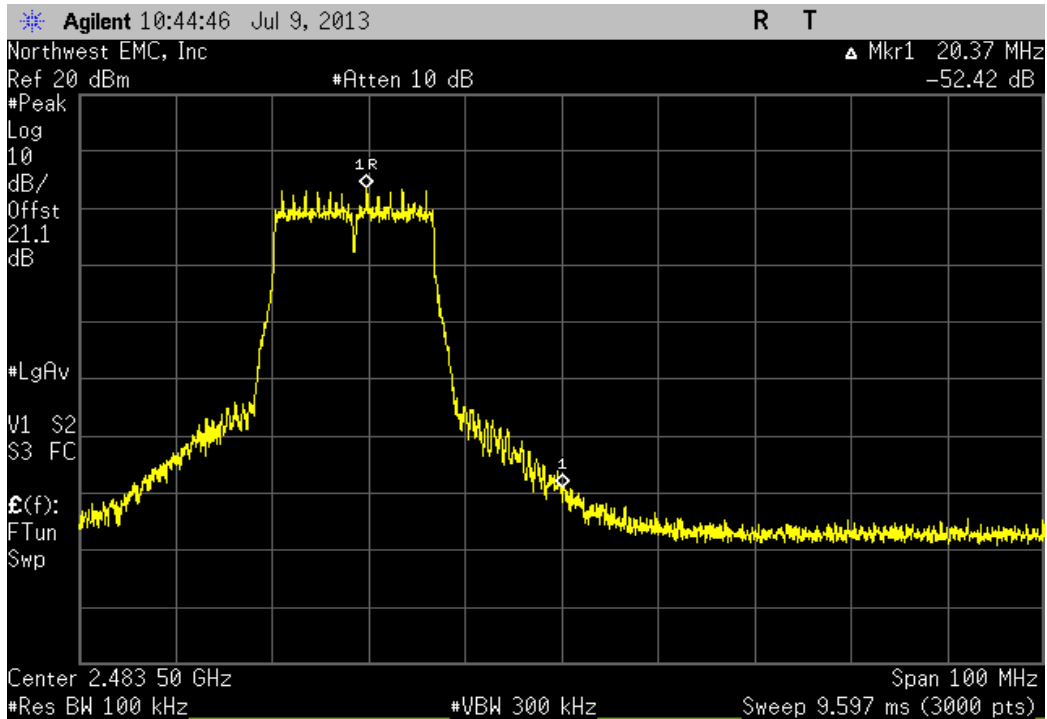
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -38.89 dBc | ≤ -20 dBc | Pass   |



20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

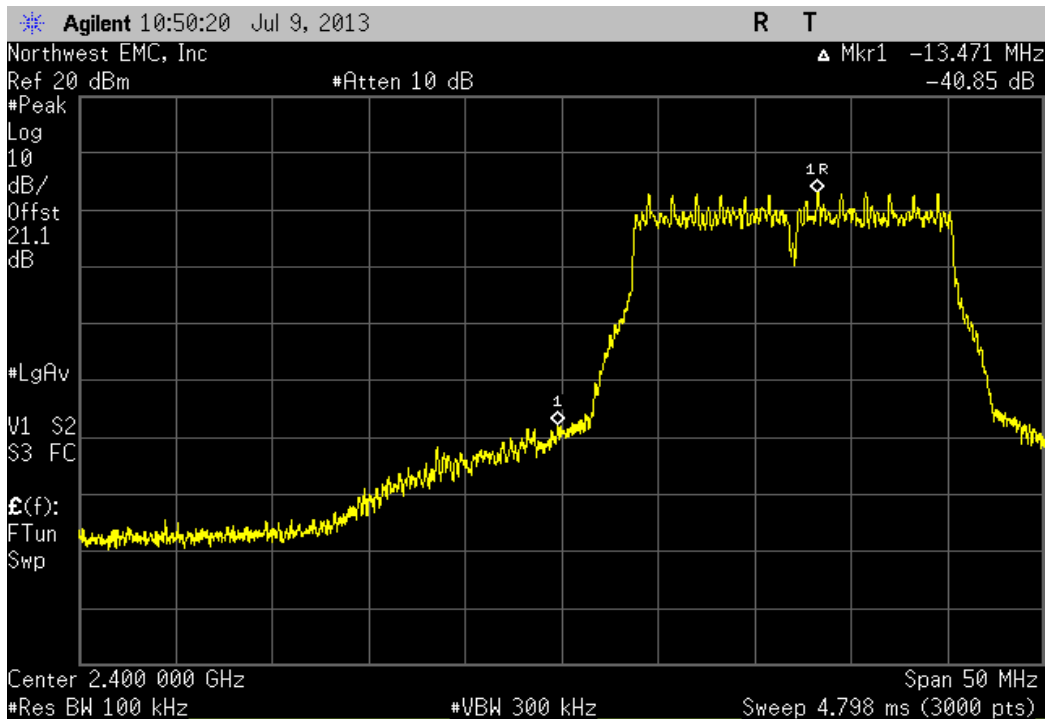
| Value      | Limit     | Result |
|------------|-----------|--------|
| -52.42 dBc | ≤ -20 dBc | Pass   |





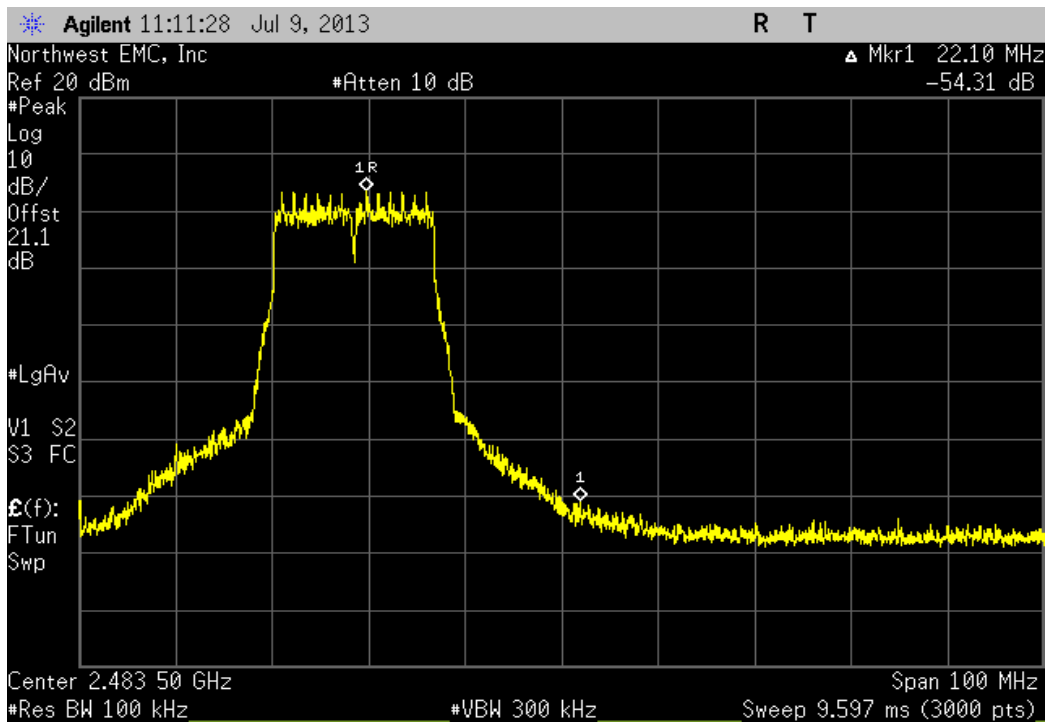
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -40.85 dBc | ≤ -20 dBc | Pass   |



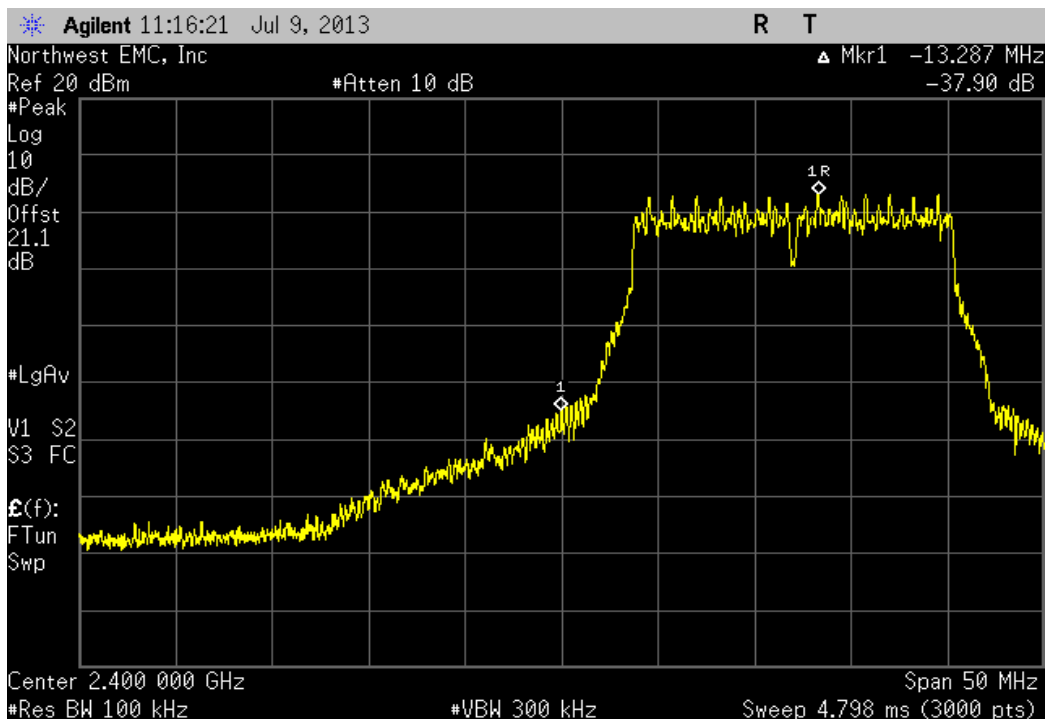
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -54.31 dBc | ≤ -20 dBc | Pass   |



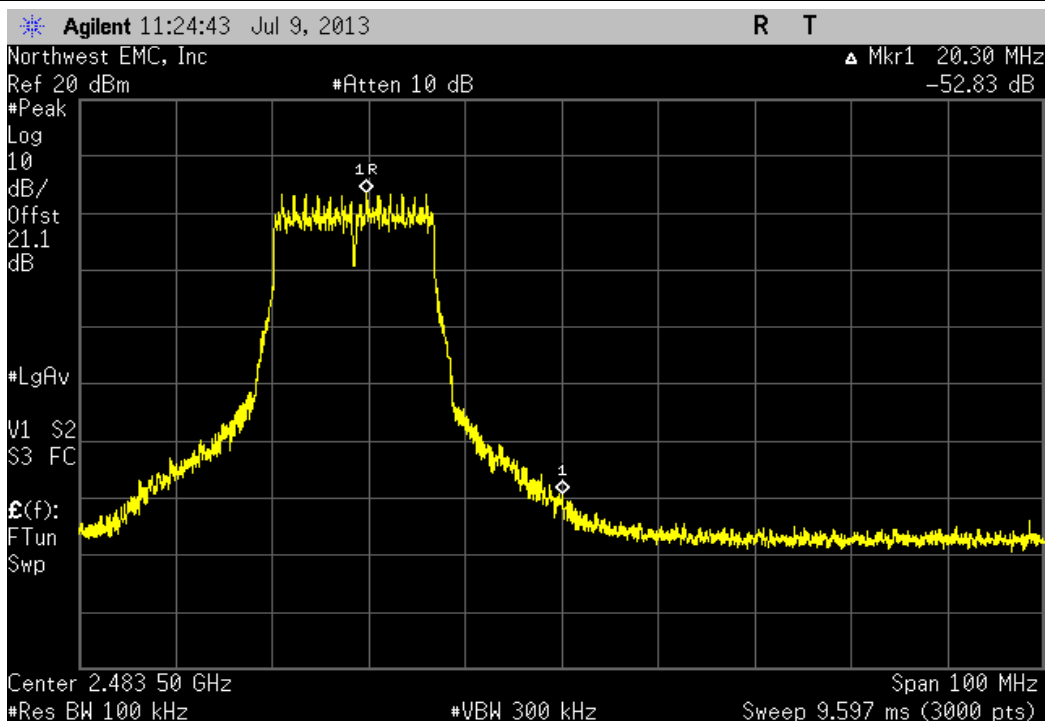
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

| Value     | Limit     | Result |
|-----------|-----------|--------|
| -37.9 dBc | ≤ -20 dBc | Pass   |



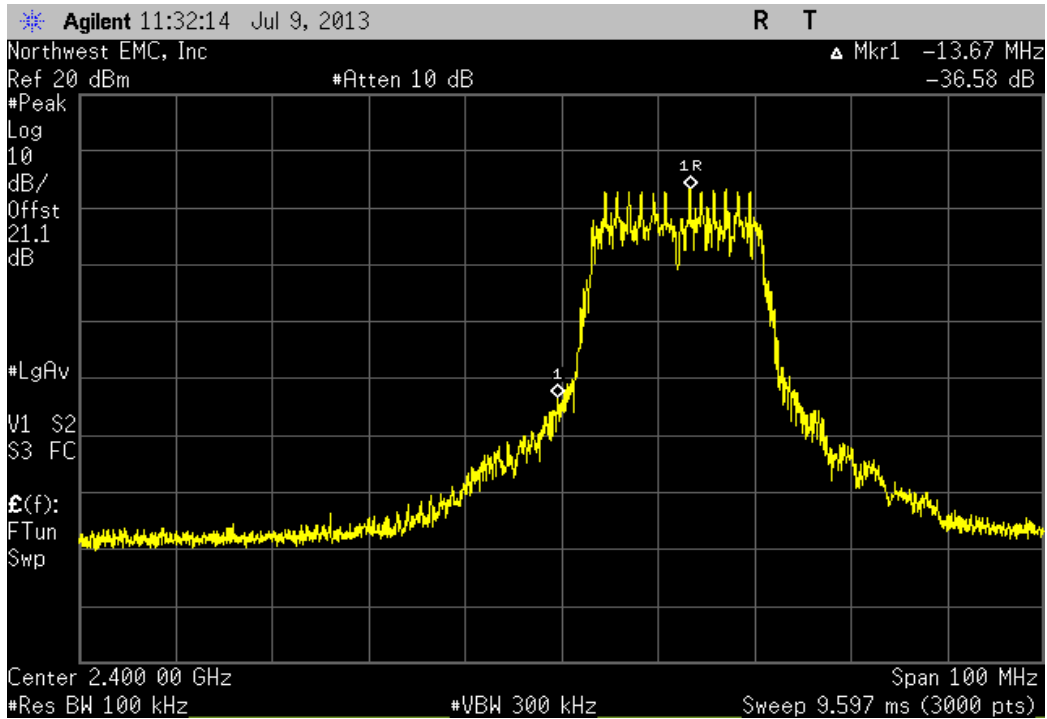
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -52.83 dBc | ≤ -20 dBc | Pass   |



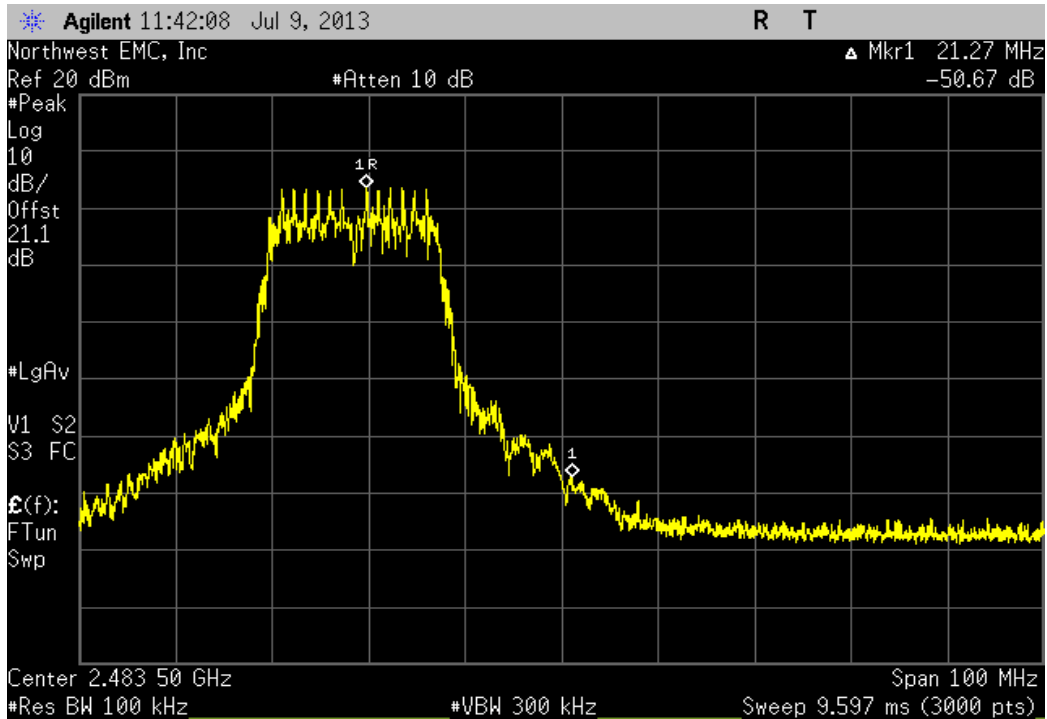
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -36.58 dBc | ≤ -20 dBc | Pass   |



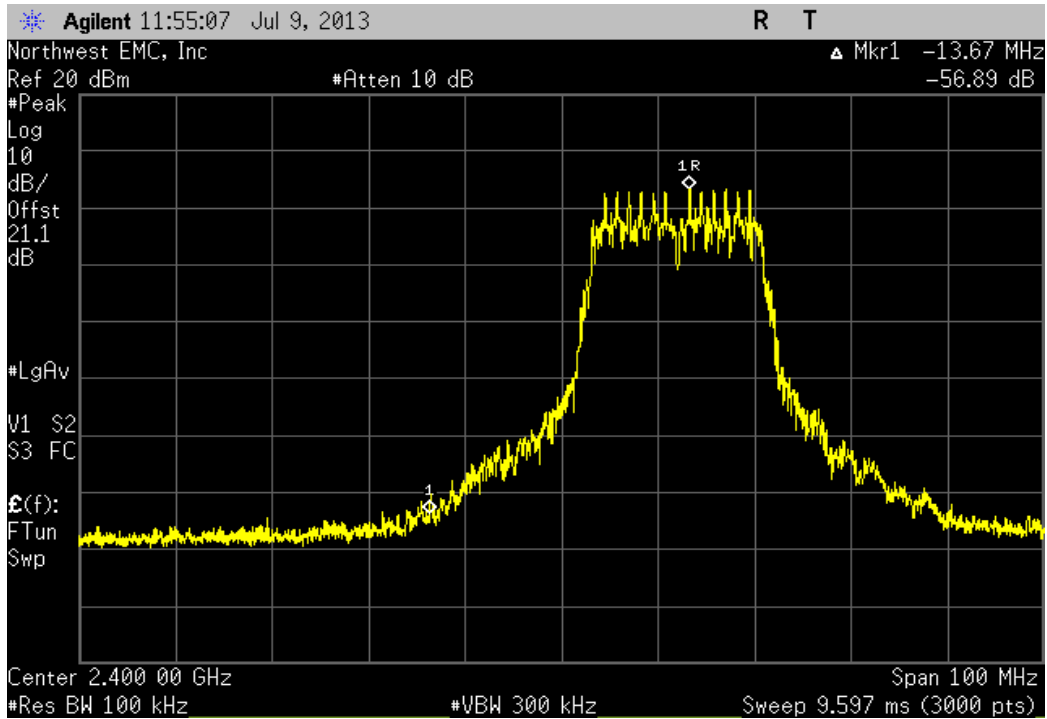
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -50.68 dBc | ≤ -20 dBc | Pass   |



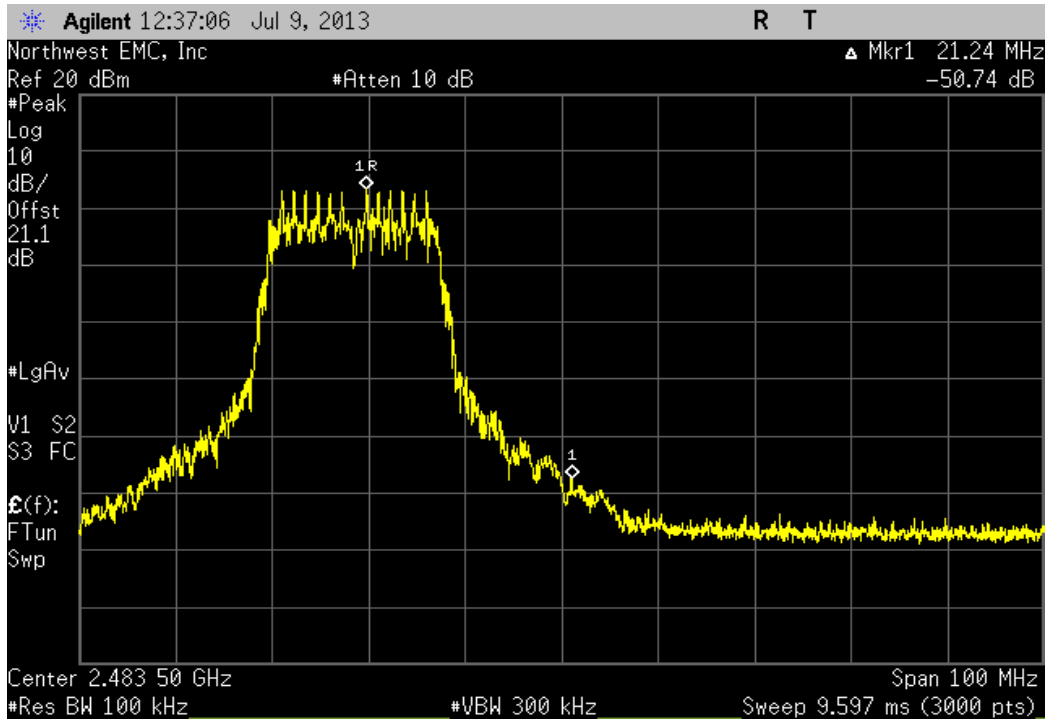
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -56.89 dBc | ≤ -20 dBc | Pass   |



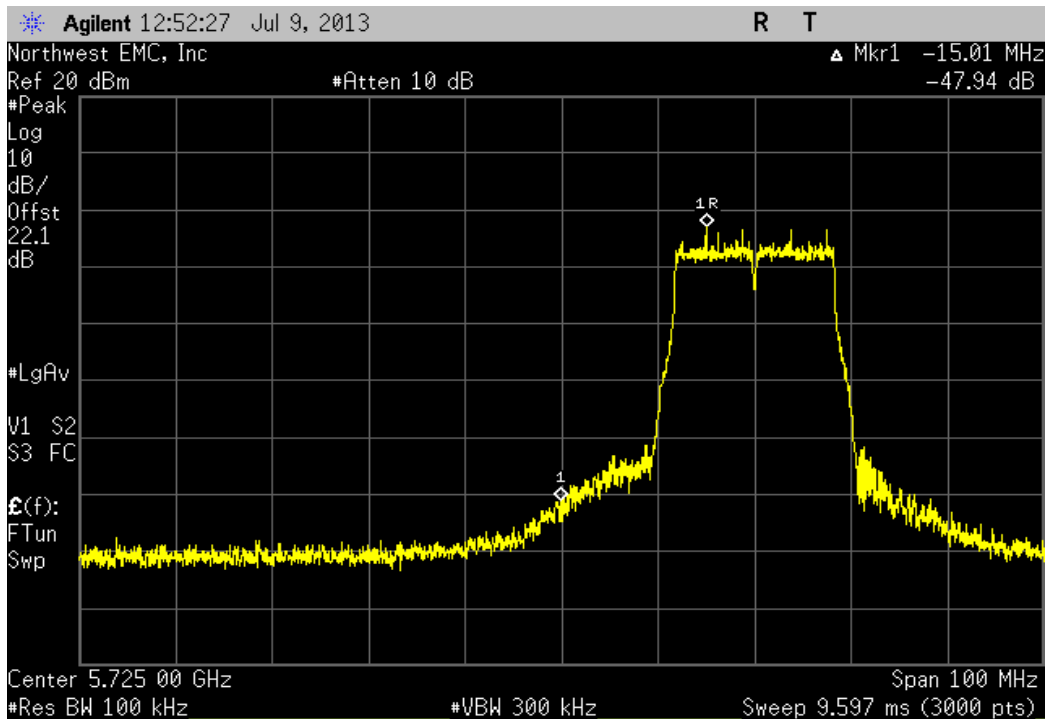
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -50.74 dBc | ≤ -20 dBc | Pass   |



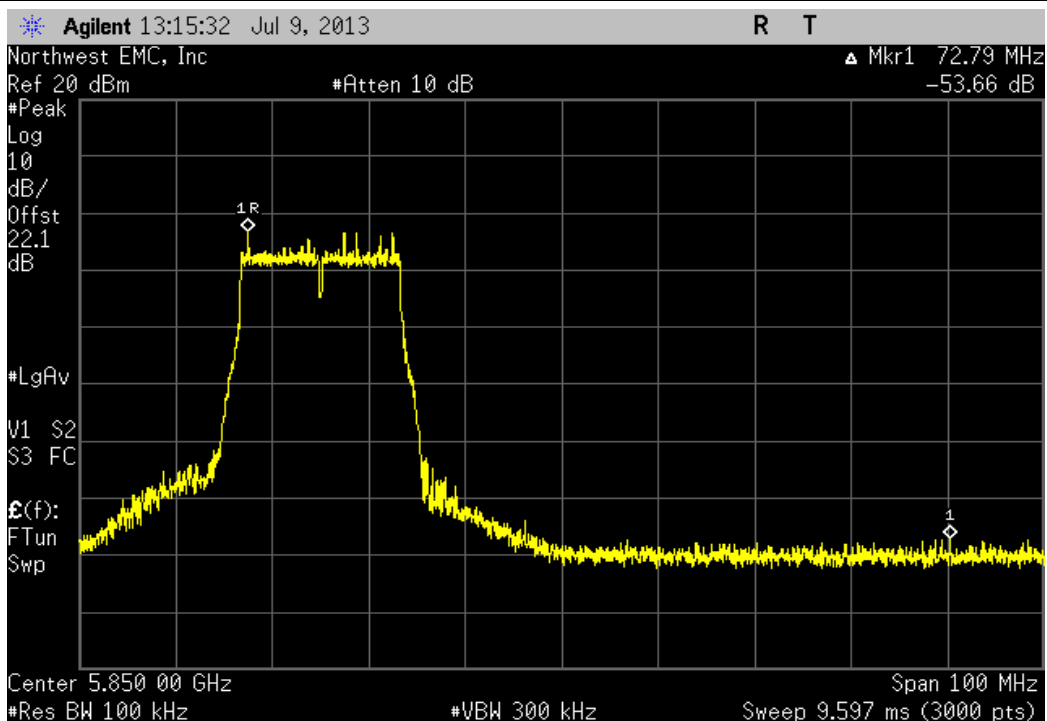
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -47.94 dBc | ≤ -20 dBc | Pass   |



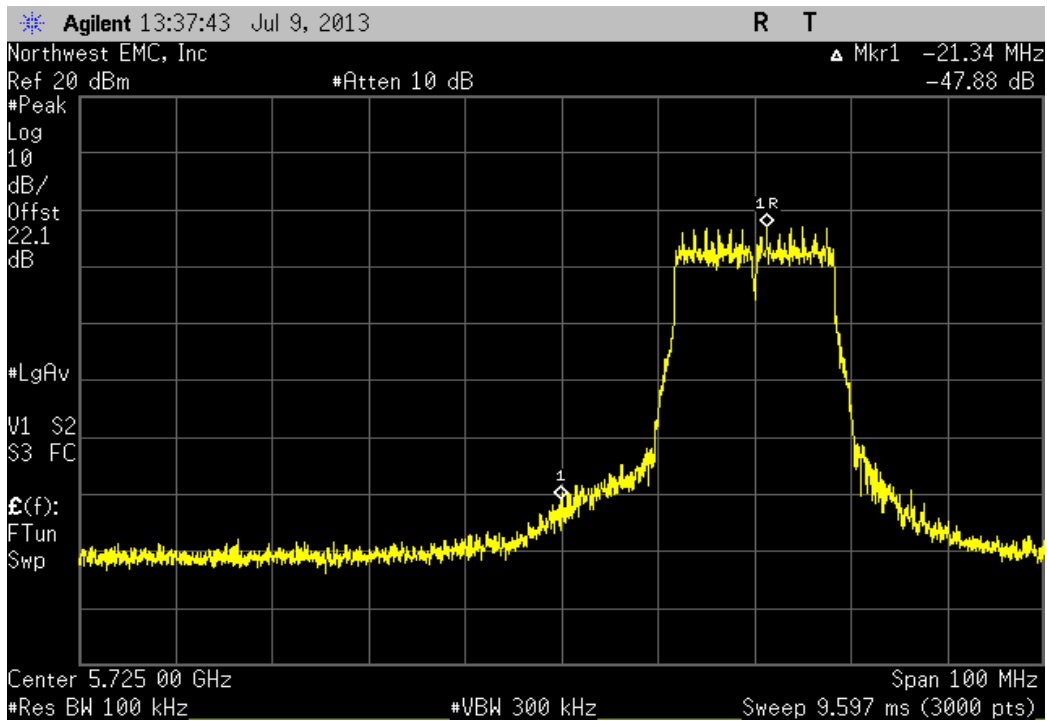
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.66 dBc | ≤ -20 dBc | Pass   |



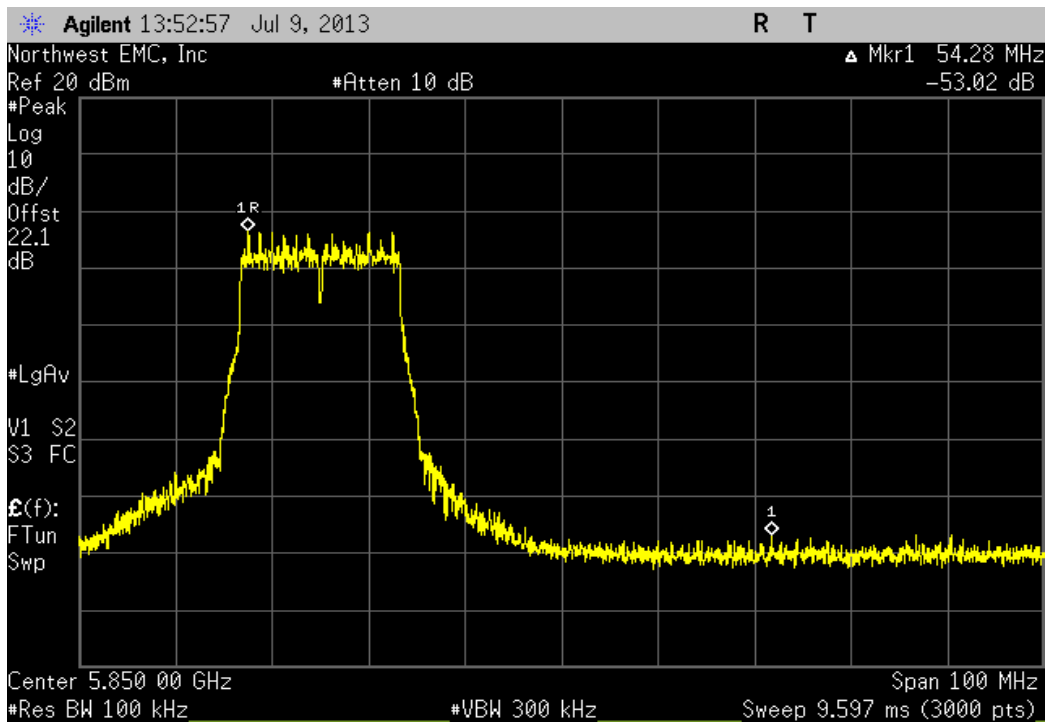
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -47.88 dBc | ≤ -20 dBc | Pass   |



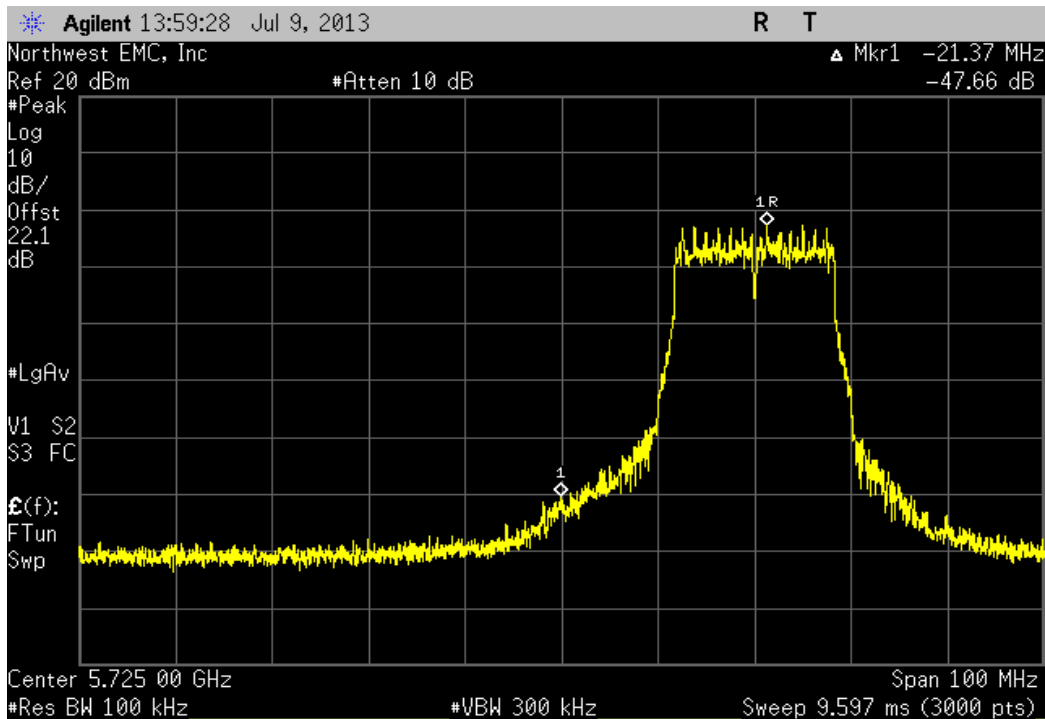
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -53.02 dBc | ≤ -20 dBc | Pass   |



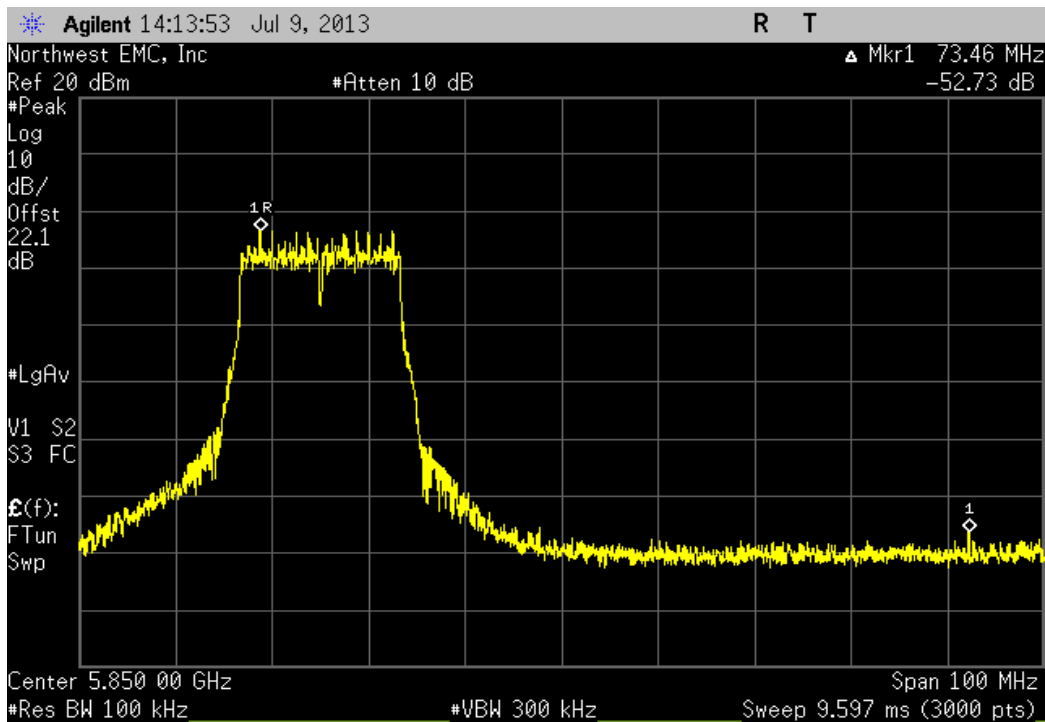
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -47.66 dBc | ≤ -20 dBc | Pass   |



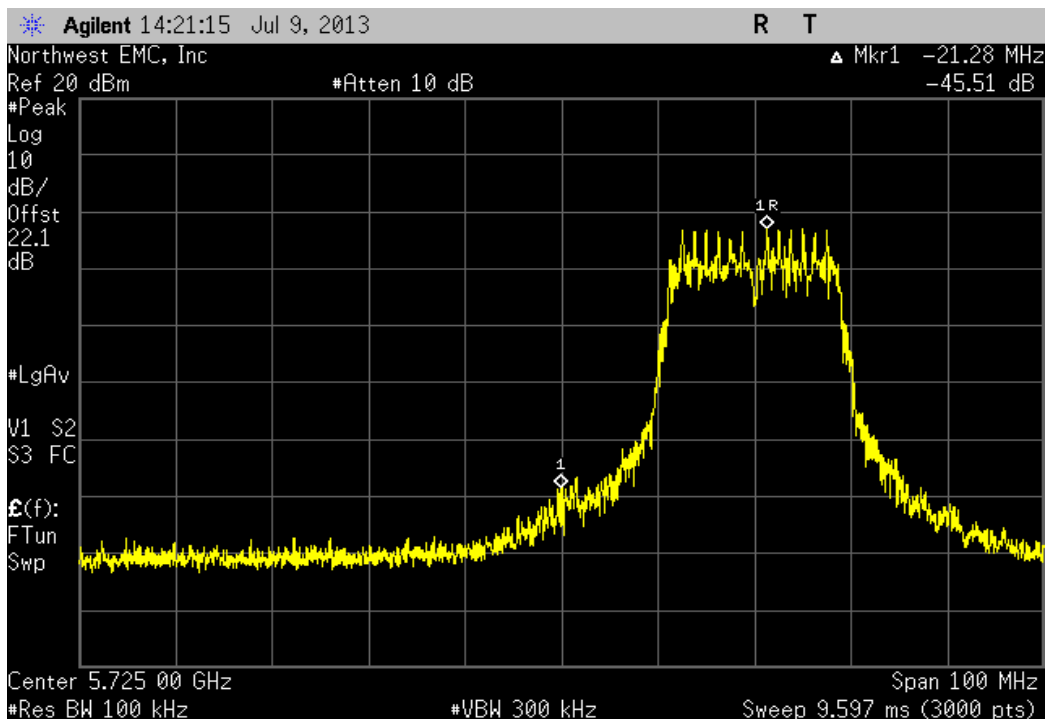
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -52.73 dBc | ≤ -20 dBc | Pass   |



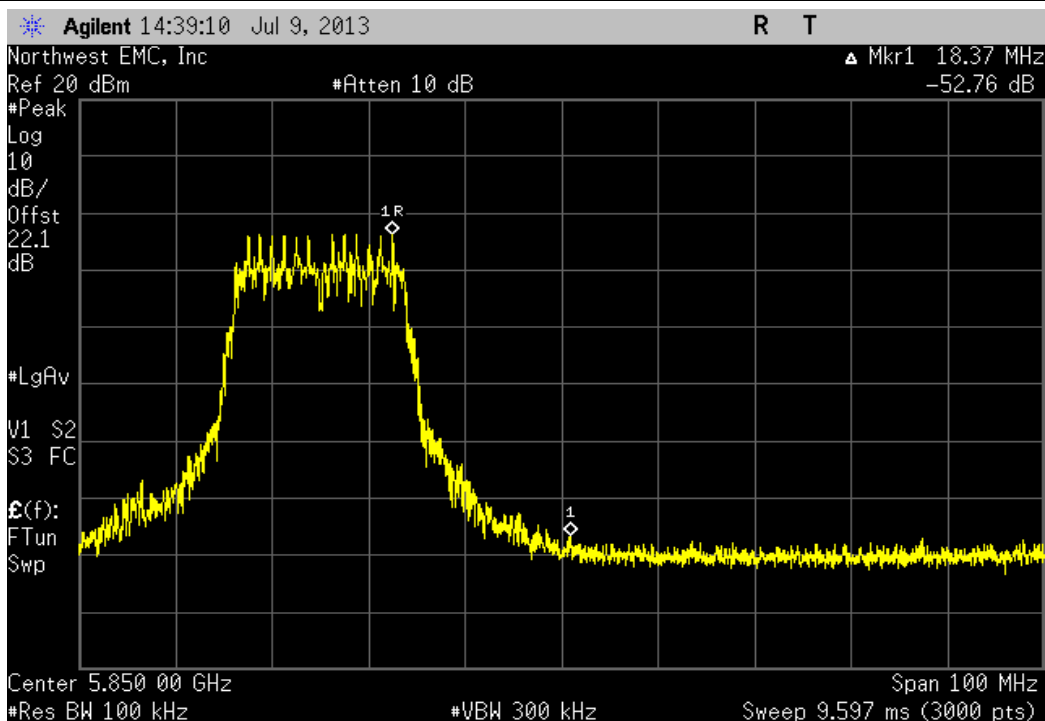
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

|  | Value      | Limit     | Result |
|--|------------|-----------|--------|
|  | -45.51 dBc | ≤ -20 dBc | Pass   |



20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

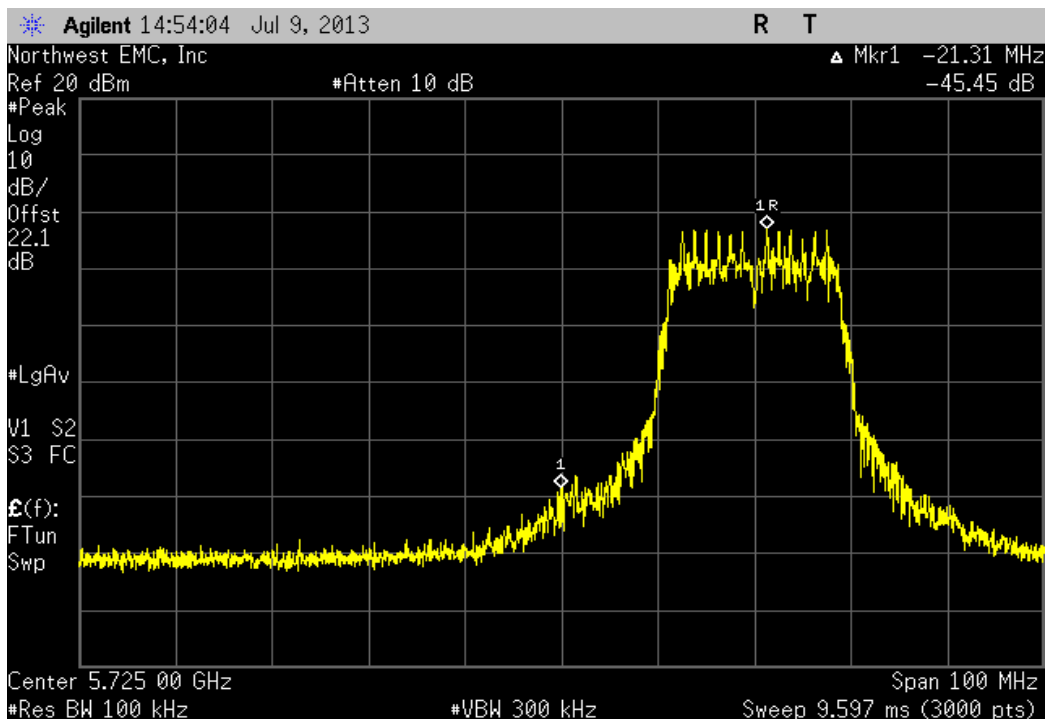
|  | Value      | Limit     | Result |
|--|------------|-----------|--------|
|  | -52.76 dBc | ≤ -20 dBc | Pass   |





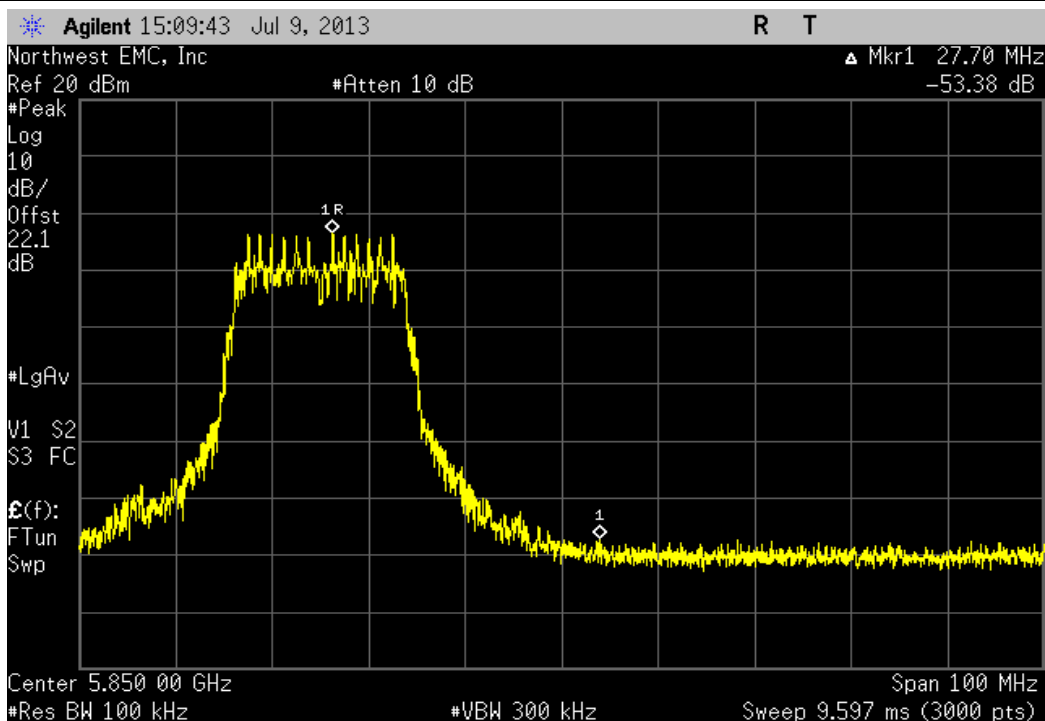
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

|  |  |  |  | Value      | Limit     | Result |
|--|--|--|--|------------|-----------|--------|
|  |  |  |  | -45.45 dBc | ≤ -20 dBc | Pass   |



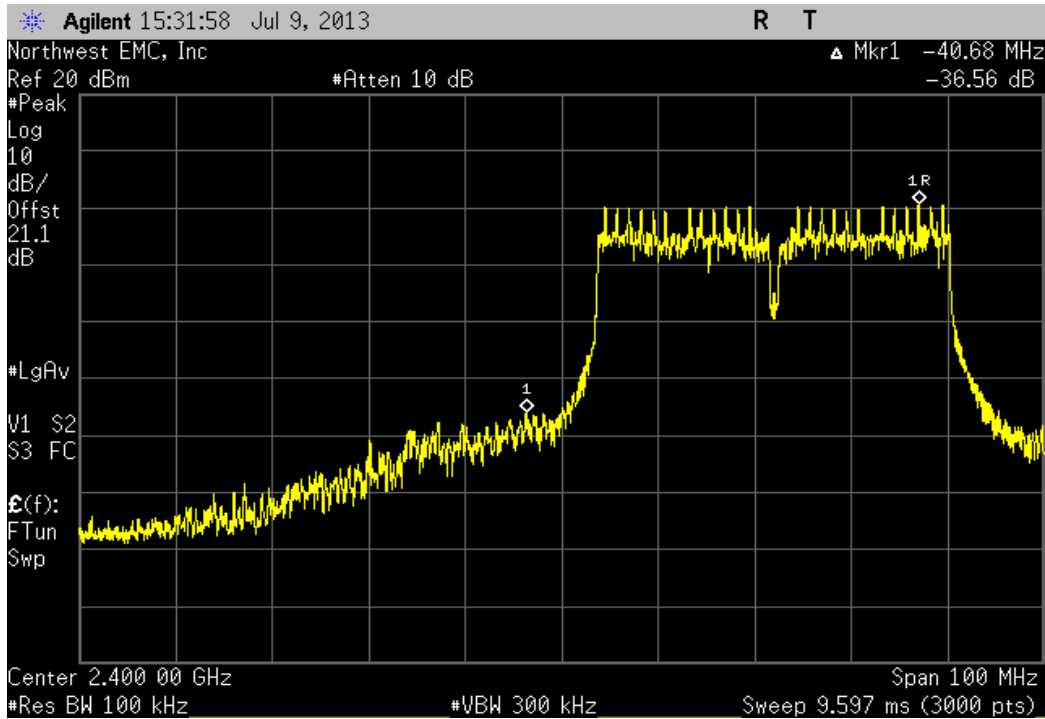
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

|  |  |  |  | Value      | Limit     | Result |
|--|--|--|--|------------|-----------|--------|
|  |  |  |  | -53.38 dBc | ≤ -20 dBc | Pass   |



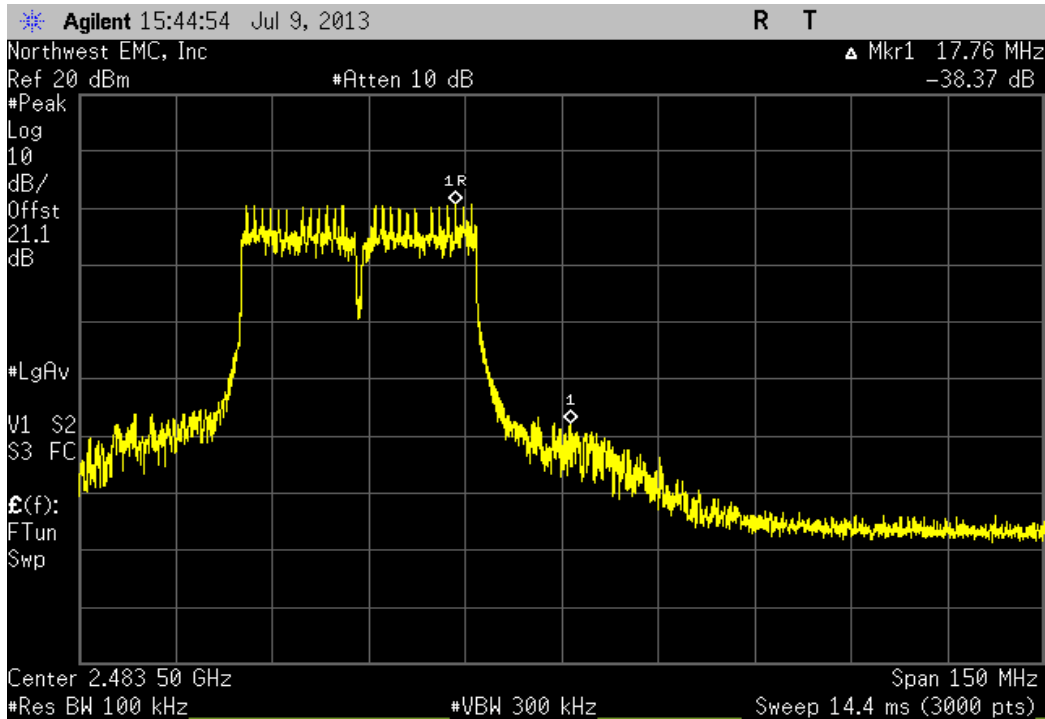
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -36.56 dBc | ≤ -20 dBc | Pass   |



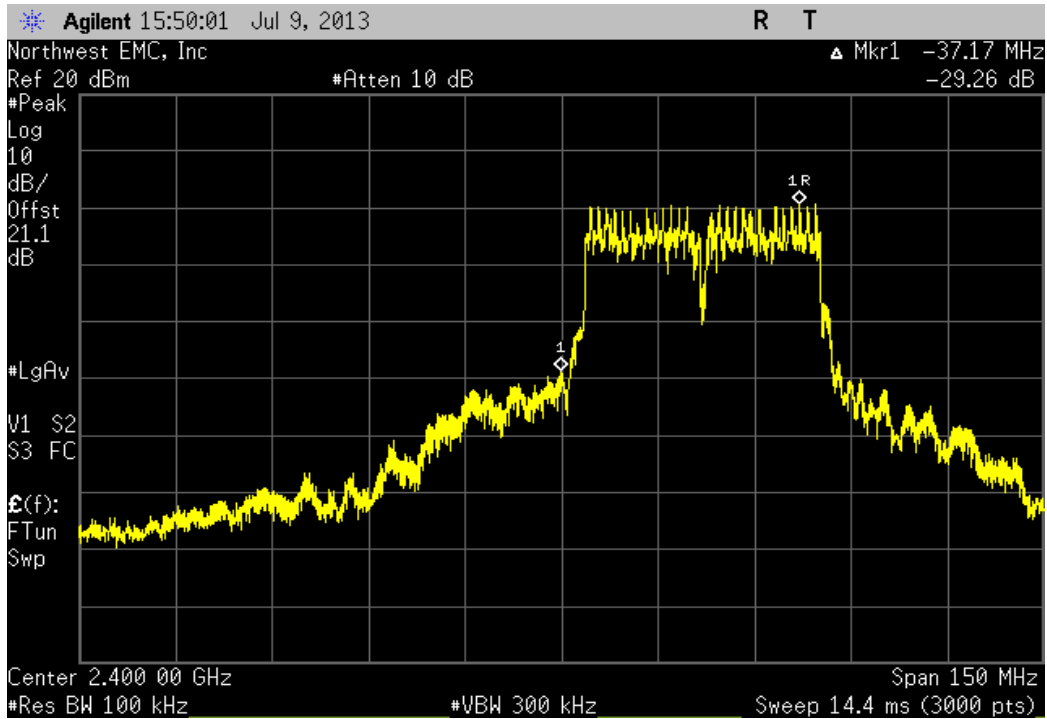
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -38.37 dBc | ≤ -20 dBc | Pass   |



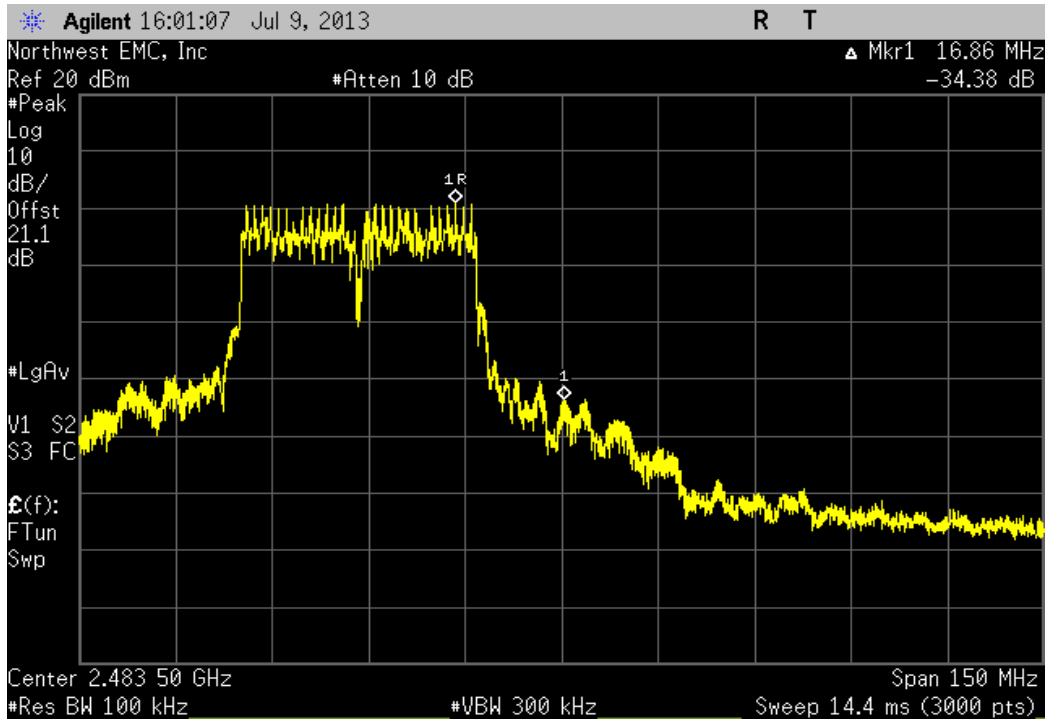
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -29.26 dBc | ≤ -20 dBc | Pass   |



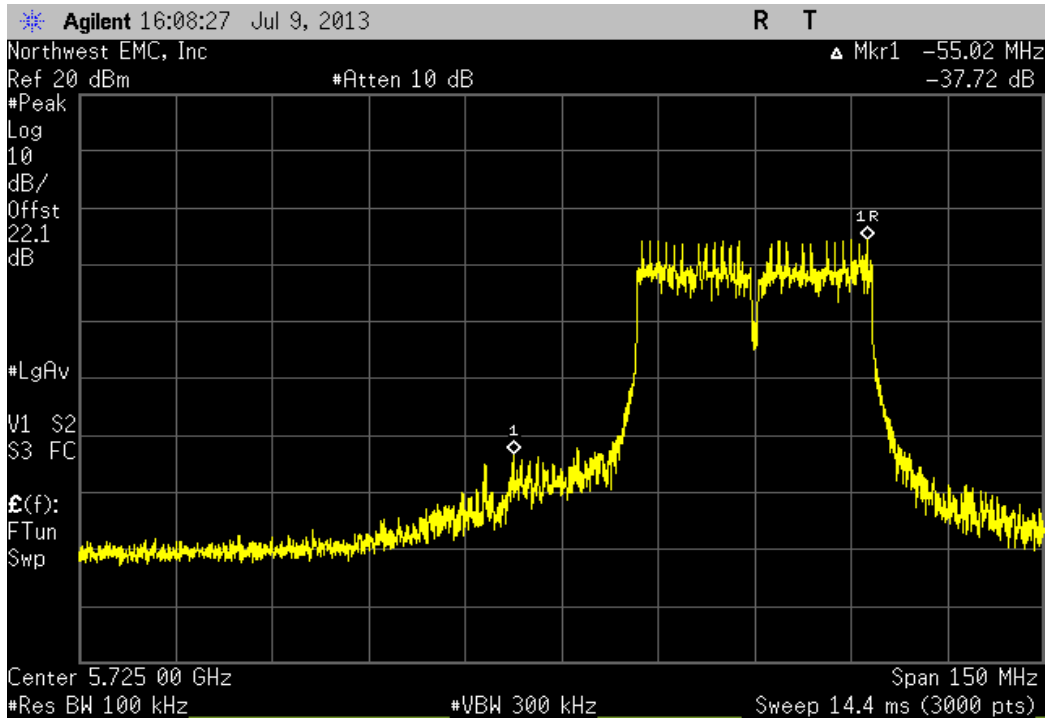
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -34.38 dBc | ≤ -20 dBc | Pass   |



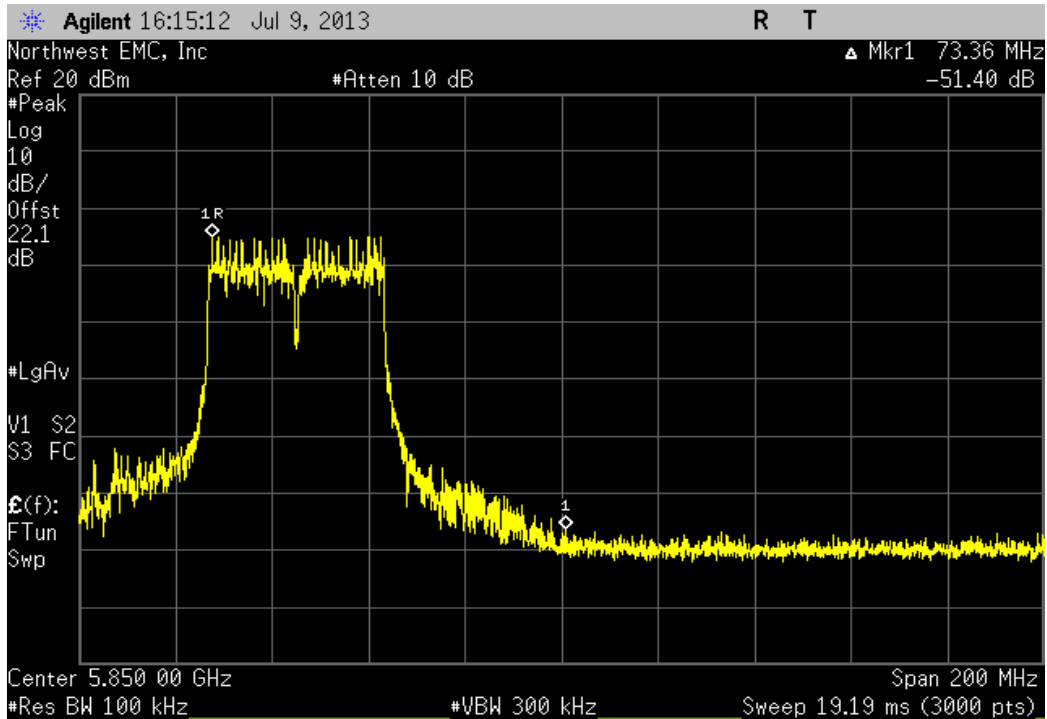
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -37.72 dBc | ≤ -20 dBc | Pass   |



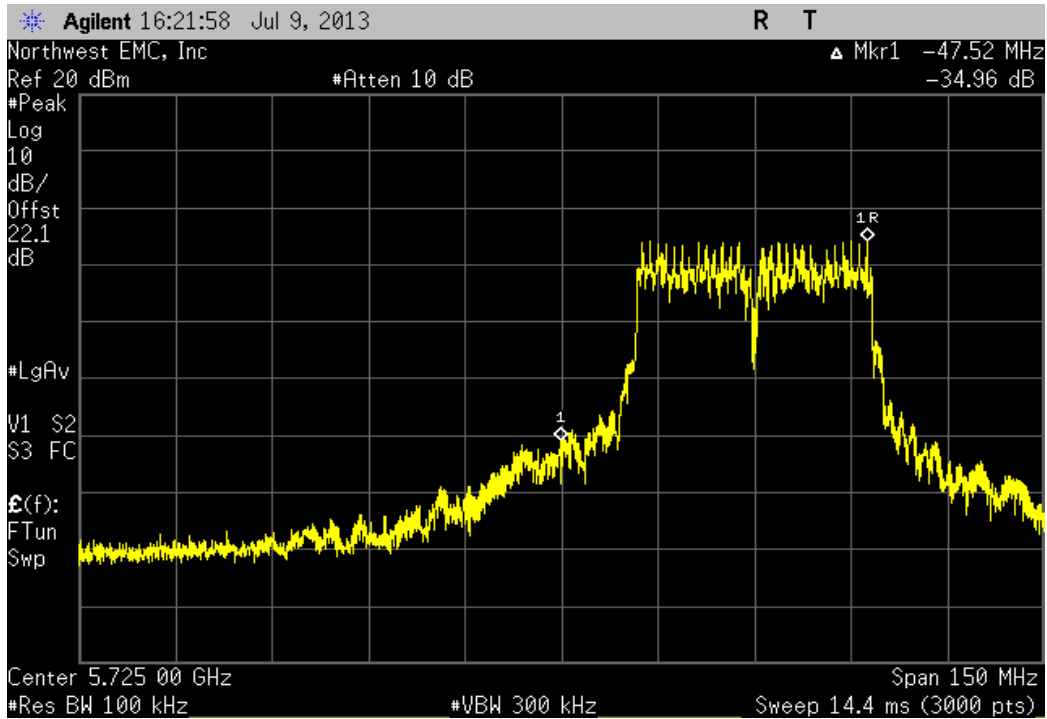
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz

| Value     | Limit     | Result |
|-----------|-----------|--------|
| -51.4 dBc | ≤ -20 dBc | Pass   |



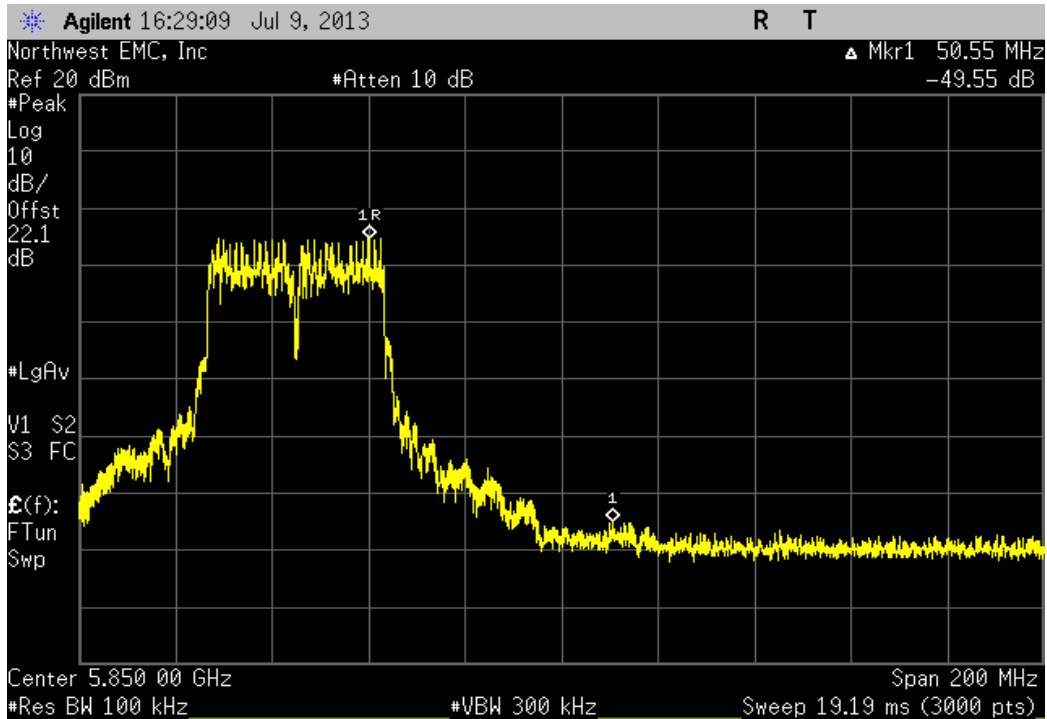
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -34.96 dBc | ≤ -20 dBc | Pass   |



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz

| Value      | Limit     | Result |
|------------|-----------|--------|
| -49.55 dBc | ≤ -20 dBc | Pass   |



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

## MODES OF OPERATION, 2.4 GHz Band

|                    |
|--------------------|
| 802.11(b), 1 Mbps  |
| 802.11(b), 11 Mbps |
| 802.11(g), 6 Mbps  |
| 802.11(g), 36 Mbps |
| 802.11(g), 54 Mbps |
| 802.11(n), MCS0    |
| 802.11(n), MCS7    |
| 802.11(n), MCS8    |
| 802.11(n), MCS15   |

## CHANNELS TESTED, 2.4 GHz BAND, 20 MHz CHANNEL BANDWIDTH

|                           |
|---------------------------|
| Low Channel 1, 2412 MHz   |
| Mid Channel 6, 2437 MHz   |
| High Channel 11, 2462 MHz |

## CHANNELS TESTED, 2.4 GHz BAND, 40 MHz CHANNEL BANDWIDTH

|                             |
|-----------------------------|
| Low Channel 1/5, 2422 MHz   |
| Mid Channel 4/8, 2437 MHz   |
| High Channel 7/11, 2452 MHz |

## CONFIGURATIONS INVESTIGATED

|              |
|--------------|
| MCSO1665 - 2 |
| MCSO1665 - 5 |

## FREQUENCY RANGE INVESTIGATED

|                 |        |                |           |
|-----------------|--------|----------------|-----------|
| Start Frequency | 30 MHz | Stop Frequency | 25000 MHz |
|-----------------|--------|----------------|-----------|

## SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

## TEST EQUIPMENT

| Description        | Manufacturer       | Model                    | ID  | Last Cal.  | Interval |
|--------------------|--------------------|--------------------------|-----|------------|----------|
| Attenuator         | Fairview Microwave | SA18E-20                 | AQV | 1/18/2013  | 12 mo    |
| HP Filter          | Micro-Tronics      | HPM50111                 | HHI | 1/18/2013  | 24 mo    |
| LP Filter          | Micro-Tronics      | LPM50004                 | LFF | 10/16/2012 | 24 mo    |
| Attenuator, 'N'    | S.M. Electronics   | SA3N-20                  | REG | 1/17/2013  | 12 mo    |
| Pre-Amplifier      | Miteq              | AMF-6F-18002650-25-10P   | AOD | 7/10/2013  | 12 mo    |
| Pre-Amplifier      | Miteq              | AMF-6F-12001800-30-10P   | AOJ | 12/14/2012 | 12 mo    |
| Pre-Amplifier      | Miteq              | AMF-6F-08001200-30-10P   | AOK | 12/14/2012 | 12 mo    |
| Pre-Amplifier      | Miteq              | AMF-3D-00100800-32-13P   | AVZ | 12/13/2012 | 12 mo    |
| Pre-Amplifier      | Miteq              | AM-1616-1000             | PAB | 12/13/2012 | 12 mo    |
| Antenna, Horn      | ETS                | 3160-09                  | AIY | NCR        | 0 mo     |
| Antenna, Horn      | EMCO               | 3160-08                  | AHO | NCR        | 0 mo     |
| Antenna, Horn      | EMCO               | 3160-07                  | AHP | NCR        | 0 mo     |
| Antenna, Horn      | EMCO               | 3115                     | AHM | 6/19/2012  | 24 mo    |
| Antenna, Biconilog | EMCO               | 3142                     | AXJ | 5/16/2012  | 36 mo    |
| Cable I            | N/A                | Standard Gain Horn Cable | SUM | 7/10/2013  | 12 mo    |
| NC01 Cables        | N/A                | Standard Gain Horn Cable | NC3 | 12/14/2012 | 12 mo    |

**TEST EQUIPMENT**

| Description       | Manufacturer    | Model                  | ID  | Last Cal.  | Interval |
|-------------------|-----------------|------------------------|-----|------------|----------|
| NC01 Cables       | N/A             | 3115 Horn Cable        | NC2 | 12/13/2012 | 12 mo    |
| NC01 Cables       | N/A             | Bilog Cables           | NC1 | 12/13/2012 | 12 mo    |
| Spectrum Analyzer | Agilent         | E4440A                 | AAW | 2/21/2013  | 24 mo    |
| Antenna, Horn     | ETS Lindgren    | 3160-09                | AIV | NCR        | 0 mo     |
| Pre-Amplifier     | Miteq           | AMF-6F-18002650-25-10P | AVU | 9/11/2012  | 12 mo    |
| Cable             | ESM Cable Corp. | KMKM-72                | EVY | 9/11/2012  | 12 mo    |
| Antenna, Horn     | ETS Lindgren    | 3160-10                | AIW | NCR        | 0 mo     |
| Pre-Amplifier     | Miteq           | JSW45-26004000-40-5P   | AVR | 6/24/2013  | 12 mo    |
| OC Cable          | ESM Cable Corp. | KMKM-72                | OCV | 6/24/2013  | 12 mo    |
| Spectrum Analyzer | Agilent         | E4446A                 | AAQ | 2/7/2012   | 24 mo    |

**MEASUREMENT BANDWIDTHS**

| Frequency Range<br>(MHz) | Peak Data<br>(kHz) | Quasi-Peak Data<br>(kHz) | Average Data<br>(kHz) |
|--------------------------|--------------------|--------------------------|-----------------------|
| 0.01 - 0.15              | 1.0                | 0.2                      | 0.2                   |
| 0.15 - 30.0              | 10.0               | 9.0                      | 9.0                   |
| 30.0 - 1000              | 100.0              | 120.0                    | 120.0                 |
| Above 1000               | 1000.0             | N/A                      | 1000.0                |

**TEST DESCRIPTION**

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

The power level used while under test for the 2.4 GHz band, 20 MHz and 40 MHz bandwidths was set at 16 dBm unless otherwise noted. All average measurements above 1 GHz were performed using a RMS Average Detector, except for measurements made at the 2483.5 MHz restricted band edge, where an average detector employing a 10 Hz VBW was used as per FCC KDB 913591. The EUT was transmitting at a 100% duty cycle for the duration of the test.



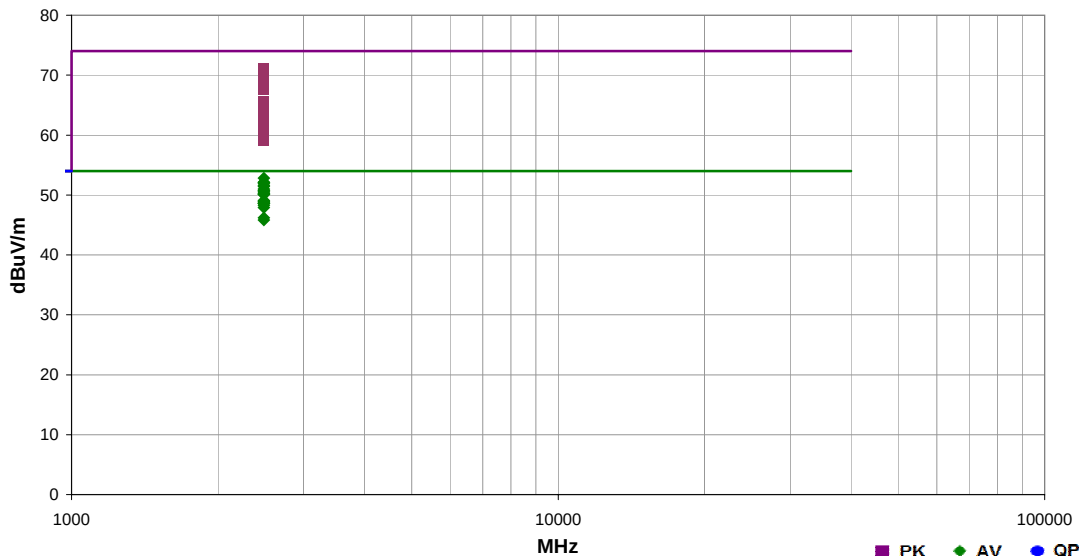
# SPURIOUS RADIATED EMISSIONS - 2.4 GHz Band

PSA-ESCI 2012.12.14  
EmiRS 2013.05.31

|                 |                                                                                                                                                                 |                   |           |                                                                                    |                  |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------|------------------|
| Work Order:     | MCSO1665                                                                                                                                                        | Date:             | 07/15/13  |  |                  |
| Project:        | None                                                                                                                                                            | Temperature:      | 25 °C     |                                                                                    |                  |
| Job Site:       | NC01                                                                                                                                                            | Humidity:         | 38% RH    |                                                                                    |                  |
| Serial Number:  | 6079632553                                                                                                                                                      | Barometric Pres.: | 1017 mbar | Tested by:                                                                         | Richard Mellroth |
| EUT:            | 1601                                                                                                                                                            |                   |           |                                                                                    |                  |
| Configuration:  | 2                                                                                                                                                               |                   |           |                                                                                    |                  |
| Customer:       | Microsoft Corporation                                                                                                                                           |                   |           |                                                                                    |                  |
| Attendees:      | None                                                                                                                                                            |                   |           |                                                                                    |                  |
| EUT Power:      | 110VAC/60Hz                                                                                                                                                     |                   |           |                                                                                    |                  |
| Operating Mode: | Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                                   |                   |           |                                                                                    |                  |
| Deviations:     | None                                                                                                                                                            |                   |           |                                                                                    |                  |
| Comments:       | 2483.5 MHz restricted band edge measurements, 20 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |                   |           |                                                                                    |                  |

| Test Specifications | Test Method      |
|---------------------|------------------|
| FCC 15.247:2013     | ANSI C63.10:2009 |

| Run # | 4 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|---|-------------------|---|-------------------|------|---------|------|
|-------|---|-------------------|---|-------------------|------|---------|------|



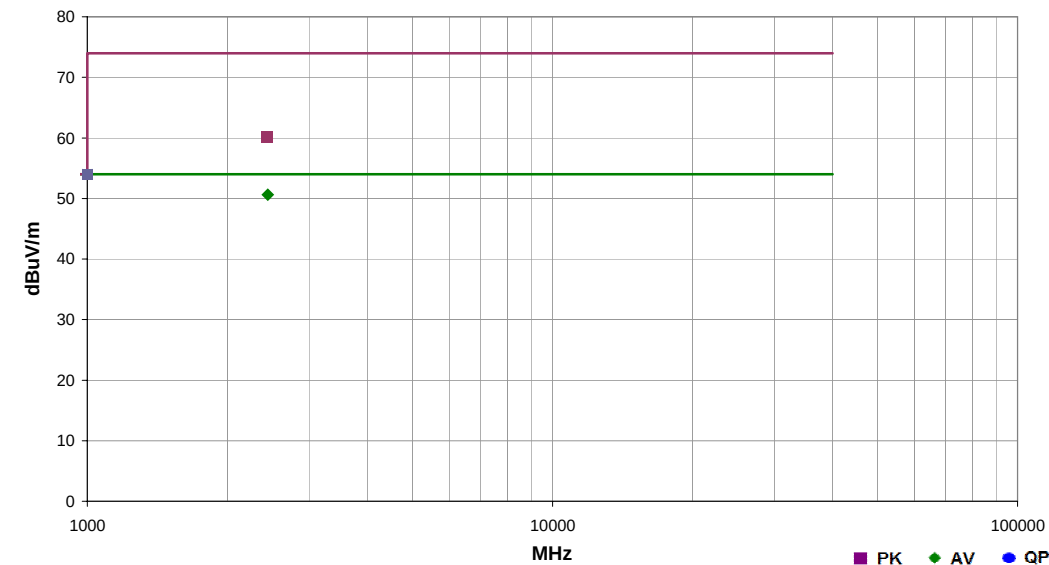
| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                                  |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|---------------------------|----------|--------------------------|-------------------|----------------------|------------------------|-------------------------------------------|
| 2483.533   | 34.3             | -1.5        | 1.3                     | 196.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 52.8              | 54.0                 | -1.2                   | Ch 11, EUT Vert, Ant A, 6 Mbps            |
| 2483.503   | 33.6             | -1.5        | 1.2                     | 32.0            | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 52.1              | 54.0                 | -1.9                   | Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg  |
| 2483.500   | 33.6             | -1.5        | 1.1                     | 30.0            | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 52.1              | 54.0                 | -1.9                   | Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg |
| 2483.500   | 33.4             | -1.5        | 1.1                     | 329.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 51.9              | 54.0                 | -2.1                   | Ch 1, EUT Horz, Ant A, 6 Mbps, 10Hz Avg   |
| 2483.503   | 33.1             | -1.5        | 1.2                     | 325.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 51.6              | 54.0                 | -2.4                   | Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg  |
| 2483.590   | 32.9             | -1.5        | 1.2                     | 260.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 51.4              | 54.0                 | -2.6                   | Ch 11, EUT Flat, Ant AB, 6 Mbps           |
| 2483.567   | 52.5             | -1.5        | 1.2                     | 32.0            | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 71.0              | 74.0                 | -3.0                   | Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg  |
| 2483.510   | 52.5             | -1.5        | 1.2                     | 31.0            | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 71.0              | 74.0                 | -3.0                   | Ch 11, EUT Horz, Ant B, 6 Mbps            |
| 2483.507   | 32.5             | -1.5        | 1.2                     | 332.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 51.0              | 54.0                 | -3.0                   | Ch 11, EUT Horz, Ant A, 6 Mbps, 10Hz Avg  |
| 2483.563   | 52.4             | -1.5        | 1.1                     | 30.0            | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 70.9              | 74.0                 | -3.1                   | Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg |
| 2483.500   | 32.3             | -1.5        | 1.2                     | 134.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 50.8              | 54.0                 | -3.2                   | Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg |
| 2483.503   | 52.3             | -1.5        | 1.1                     | 327.0           | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 70.8              | 74.0                 | -3.2                   | Ch 11, EUT Horz, Ant A, 6 Mbps            |
| 2483.717   | 52.2             | -1.5        | 1.4                     | 277.0           | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 70.7              | 74.0                 | -3.3                   | Ch 11, EUT Horz, Ant B, MCS7              |
| 2483.520   | 32.2             | -1.5        | 1.2                     | 359.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 50.7              | 54.0                 | -3.3                   | Ch 11, EUT Flat, Ant A, 6 Mbps            |
| 2483.677   | 52.1             | -1.5        | 1.1                     | 329.0           | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 70.6              | 74.0                 | -3.4                   | Ch 11, EUT Horz, Ant A, 6 Mbps, 10Hz Avg  |
| 2483.500   | 32.0             | -1.5        | 1.4                     | 277.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 50.5              | 54.0                 | -3.5                   | Ch 11, EUT Horz, Ant B, MCS7, 10Hz Avg    |
| 2483.517   | 31.8             | -1.5        | 2.5                     | 112.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 50.3              | 54.0                 | -3.7                   | Ch 11, EUT Flat, Ant A, 6 Mbps            |
| 2484.117   | 31.7             | -1.5        | 1.6                     | 0.0             | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 50.2              | 54.0                 | -3.8                   | Ch 11, EUT Vert, Ant AB, 6 Mbps           |
| 2483.583   | 51.7             | -1.5        | 1.2                     | 325.0           | 3.0        | 20.0                      | Vert                      | PK       | 0.0                      | 70.2              | 74.0                 | -3.8                   | Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg  |
| 2483.507   | 51.7             | -1.5        | 1.1                     | 273.0           | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 70.2              | 74.0                 | -3.8                   | Ch 11, EUT Horz, Ant B, MCS0              |
| 2483.500   | 31.6             | -1.5        | 1.1                     | 273.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 50.1              | 54.0                 | -3.9                   | Ch 11, EUT Horz, Ant B, MCS0, 10Hz Avg    |
| 2483.557   | 31.6             | -1.5        | 1.2                     | 244.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 50.1              | 54.0                 | -3.9                   | Ch 11, EUT Flat, Ant B, 6 Mbps            |
| 2483.813   | 51.3             | -1.5        | 1.2                     | 326.0           | 3.0        | 20.0                      | Vert                      | PK       | 0.0                      | 69.8              | 74.0                 | -4.2                   | Ch 11, EUT Horz, Ant AB, 6 Mbps           |
| 2483.530   | 51.2             | -1.5        | 1.2                     | 331.0           | 3.0        | 20.0                      | Vert                      | PK       | 0.0                      | 69.7              | 74.0                 | -4.3                   | Ch 11, EUT Horz, Ant B, 6 Mbps            |
| 2483.523   | 51.2             | -1.5        | 1.2                     | 324.0           | 3.0        | 20.0                      | Vert                      | PK       | 0.0                      | 69.7              | 74.0                 | -4.3                   | Ch 11, EUT Horz, Ant A, 6 Mbps            |
| 2483.643   | 51.0             | -1.5        | 1.2                     | 332.0           | 3.0        | 20.0                      | Vert                      | PK       | 0.0                      | 69.5              | 74.0                 | -4.5                   | Ch 11, EUT Horz, Ant A, 6 Mbps, 10Hz Avg  |
| 2483.513   | 50.9             | -1.5        | 1.1                     | 29.0            | 3.0        | 20.0                      | Horz                      | PK       | 0.0                      | 69.4              | 74.0                 | -4.6                   | Ch 11, EUT Horz, Ant AB, 6 Mbps           |
| 2483.580   | 50.8             | -1.5        | 1.2                     | 134.0           | 3.0        | 20.0                      | Vert                      | PK       | 0.0                      | 69.3              | 74.0                 | -4.7                   | Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg |
| 2483.500   | 30.6             | -1.5        | 1.2                     | 126.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 49.1              | 54.0                 | -4.9                   | Ch 11, EUT Vert, Ant B, 6 Mbps            |
| 2483.607   | 30.4             | -1.5        | 1.2                     | 4.0             | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 48.9              | 54.0                 | -5.1                   | Ch 11, EUT Vert, Ant A, 6 Mbps            |
| 2484.410   | 30.3             | -1.5        | 1.2                     | 121.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 48.8              | 54.0                 | -5.2                   | Ch 11, EUT Vert, Ant AB, 6 Mbps           |
| 2483.810   | 30.1             | -1.5        | 1.2                     | 285.0           | 3.0        | 20.0                      | Vert                      | AV       | 0.0                      | 48.6              | 54.0                 | -5.4                   | Ch 11, EUT Vert, Ant A, 6 Mbps            |
| 2483.530   | 30.1             | -1.5        | 1.2                     | 273.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 48.6              | 54.0                 | -5.4                   | Ch 11, EUT Horz, Ant B, 54 Mbps, 10Hz Avg |
| 2483.500   | 30.1             | -1.5        | 1.1                     | 274.0           | 3.0        | 20.0                      | Horz                      | AV       | 0.0                      | 48.6              | 54.0                 | -5.4                   | Ch 11, EUT Horz, Ant B, 36 Mbps, 10Hz Avg |



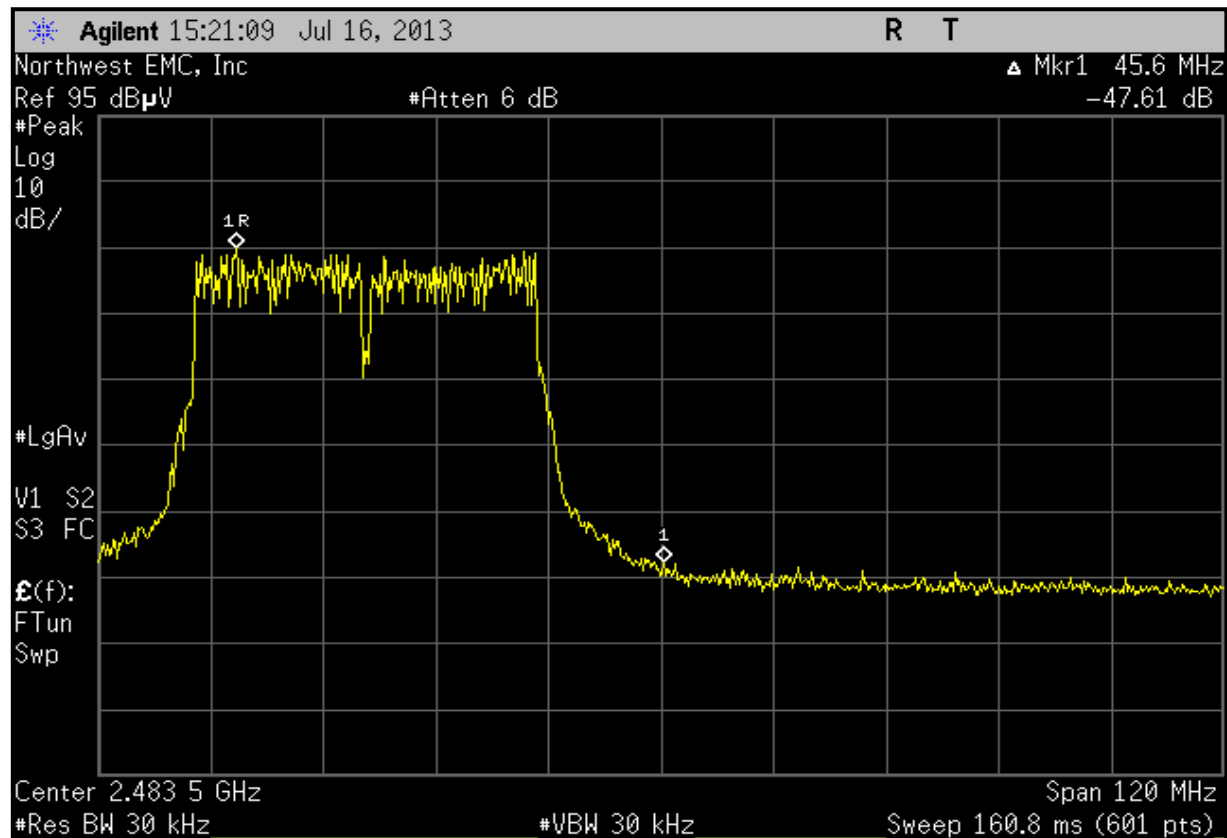
| Freq<br>(MHz) | Amplitude<br>(dBuV) | Preamp<br>(dB) | Antenna Height<br>(meters) | Transducer<br>(dB) | Cable<br>(dB) | External<br>Attenuation<br>(dB) | Polarity/<br>Transducer<br>Type | Detector | Distance<br>Adjustment<br>(dB) | Adjusted<br>(dBuV/m) | Spec. Limit<br>(dBuV/m) | Compared to<br>Spec.<br>(dB) | Comments                                 |
|---------------|---------------------|----------------|----------------------------|--------------------|---------------|---------------------------------|---------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|------------------------------------------|
| 2483.583      | 29.8                | -1.5           | 1.2                        | 281.0              | 3.0           | 20.0                            | Horz                            | AV       | 0.0                            | 48.3                 | 54.0                    | -5.7                         | Ch 11, EUT Flat, Ant AB, 6 Mbps          |
| 2483.633      | 49.6                | -1.5           | 1.2                        | 273.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 68.1                 | 74.0                    | -5.9                         | Ch 11, EUT Horz, Ant B, 54 Mbps          |
| 2485.083      | 29.4                | -1.5           | 1.2                        | 166.0              | 3.0           | 20.0                            | Horz                            | AV       | 0.0                            | 47.9                 | 54.0                    | -6.1                         | Ch 11, EUT Flat, Ant B, 6 Mbps           |
| 2483.550      | 49.1                | -1.5           | 1.2                        | 260.0              | 3.0           | 20.0                            | Vert                            | PK       | 0.0                            | 67.6                 | 74.0                    | -6.4                         | Ch 11, EUT Flat, Ant AB, 6 Mbps          |
| 2483.560      | 49.1                | -1.5           | 1.3                        | 196.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 67.6                 | 74.0                    | -6.4                         | Ch 11, EUT Vert, Ant A, 6 Mbps           |
| 2484.153      | 27.7                | -1.5           | 1.2                        | 283.0              | 3.0           | 20.0                            | Horz                            | AV       | 0.0                            | 46.2                 | 54.0                    | -7.8                         | Ch 11, EUT Horz, Ant B, 11 Mbps 10Hz Avg |
| 2484.160      | 27.3                | -1.5           | 1.2                        | 295.0              | 3.0           | 20.0                            | Horz                            | AV       | 0.0                            | 45.8                 | 54.0                    | -8.2                         | Ch 11, EUT Horz, Ant B, 1 Mbps, 10Hz Avg |
| 2485.240      | 47.0                | -1.5           | 1.6                        | 0.0                | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 65.5                 | 74.0                    | -8.5                         | Ch 11, EUT Vert, Ant AB, 6 Mbps          |
| 2485.260      | 47.0                | -1.5           | 1.1                        | 274.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 65.5                 | 74.0                    | -8.5                         | Ch 11, EUT Horz, Ant B, 36 Mbps          |
| 2483.707      | 46.9                | -1.5           | 1.2                        | 359.0              | 3.0           | 20.0                            | Vert                            | PK       | 0.0                            | 65.4                 | 74.0                    | -8.6                         | Ch 11, EUT Flat, Ant A, 6 Mbps           |
| 2483.940      | 46.7                | -1.5           | 1.2                        | 244.0              | 3.0           | 20.0                            | Vert                            | PK       | 0.0                            | 65.2                 | 74.0                    | -8.8                         | Ch 11, EUT Flat, Ant B, 6 Mbps           |
| 2483.540      | 46.4                | -1.5           | 2.5                        | 112.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 64.9                 | 74.0                    | -9.1                         | Ch 11, EUT Flat, Ant A, 6 Mbps           |
| 2483.553      | 44.8                | -1.5           | 1.2                        | 126.0              | 3.0           | 20.0                            | Vert                            | PK       | 0.0                            | 63.3                 | 74.0                    | -10.7                        | Ch 11, EUT Vert, Ant B, 6 Mbps           |
| 2484.963      | 44.3                | -1.5           | 1.2                        | 121.0              | 3.0           | 20.0                            | Vert                            | PK       | 0.0                            | 62.8                 | 74.0                    | -11.2                        | Ch 11, EUT Vert, Ant AB, 6 Mbps          |
| 2483.713      | 44.2                | -1.5           | 1.2                        | 4.0                | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 62.7                 | 74.0                    | -11.3                        | Ch 11, EUT Vert, Ant B, 6 Mbps           |
| 2483.510      | 43.8                | -1.5           | 1.2                        | 283.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 62.3                 | 74.0                    | -11.7                        | Ch 11, EUT Horz, Ant B, 11 Mbps          |
| 2484.307      | 42.6                | -1.5           | 1.2                        | 281.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 61.1                 | 74.0                    | -12.9                        | Ch 11, EUT Flat, Ant AB, 6 Mbps          |
| 2483.513      | 42.2                | -1.5           | 1.2                        | 285.0              | 3.0           | 20.0                            | Vert                            | PK       | 0.0                            | 60.7                 | 74.0                    | -13.3                        | Ch 11, EUT Vert, Ant A, 6 Mbps           |
| 2485.137      | 40.9                | -1.5           | 1.2                        | 295.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 59.4                 | 74.0                    | -14.6                        | Ch 11, EUT Horz, Ant B, 1 Mbps           |
| 2484.927      | 40.6                | -1.5           | 1.2                        | 166.0              | 3.0           | 20.0                            | Horz                            | PK       | 0.0                            | 59.1                 | 74.0                    | -14.9                        | Ch 11, EUT Flat, Ant B, 6 Mbps           |

|                 |                                                                                                                                                                                     |                   |           |                                                                                    |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                                                                                                                                                                            | Date:             | 07/16/13  |  |
| Project:        | None                                                                                                                                                                                | Temperature:      | 23 °C     |                                                                                    |
| Job Site:       | NC01                                                                                                                                                                                | Humidity:         | 42% RH    |                                                                                    |
| Serial Number:  | 6079632553                                                                                                                                                                          | Barometric Pres.: | 1013 mbar |                                                                                    |
| EUT:            | 1601                                                                                                                                                                                |                   |           |                                                                                    |
| Configuration:  | 2                                                                                                                                                                                   |                   |           |                                                                                    |
| Customer:       | Microsoft Corporation                                                                                                                                                               |                   |           |                                                                                    |
| Attendees:      | None                                                                                                                                                                                |                   |           |                                                                                    |
| EUT Power:      | 110VAC/60Hz                                                                                                                                                                         |                   |           |                                                                                    |
| Operating Mode: | Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                                                       |                   |           |                                                                                    |
| Deviations:     | None                                                                                                                                                                                |                   |           |                                                                                    |
| Comments:       | 2483.5 MHz restricted band edge measurement, delta marker method, 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |                   |           |                                                                                    |

| Test Specifications |    |                   |   | Test Method       |      |         |      |
|---------------------|----|-------------------|---|-------------------|------|---------|------|
| FCC 15.247:2013     |    |                   |   | ANSI C63.10:2009  |      |         |      |
|                     |    |                   |   |                   |      |         |      |
| Run #               | 12 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |



| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                              |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|---------------------------------------|
| 2442.27    | 79.8             | -1.6        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 98.23             |                      |                        | Fundamental, Ch 7/11, EUT Horz, Ant B |
| 2483.90    |                  |             | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.00                     | 50.62             | 54.0                 | -3.38                  | EUT output @ 11dBm, MCS0              |
| 2435.93    | 89.3             | -1.6        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 107.7             |                      |                        | Marker Delta Method:                  |
|            |                  |             |                         |                 |            |                           |                          |          |                          |                   |                      |                        | AV 98.23 - 47.61 dBc = 50.62          |
| 2483.90    |                  |             | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.00                     | 60.1              | 74.0                 | -13.9                  | Fundamental, Ch 7/11, EUT Horz, Ant B |
|            |                  |             |                         |                 |            |                           |                          |          |                          |                   |                      |                        | EUT output @ 11dBm, MCS0              |
|            |                  |             |                         |                 |            |                           |                          |          |                          |                   |                      |                        | Marker Delta Method:                  |
|            |                  |             |                         |                 |            |                           |                          |          |                          |                   |                      |                        | PK 107.7 - 47.61 dBc = 60.09          |



Ch 7/11, EUT Horz, Ant B, MCS0, EUT outptu @ 11 dBm

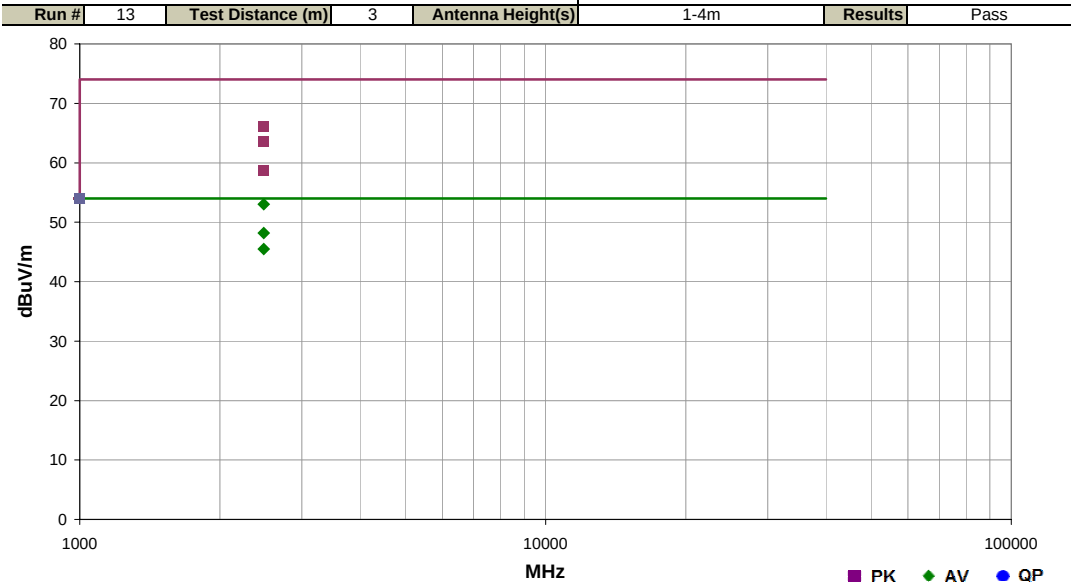


SPURIOUS RADIATED EMISSIONS -  
2.4 GHz Band

PSA-ESCI 2012.12.14  
EmiR5 2013.05.31

|                                                                                                                                                                          |            |                   |           |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|-----------|-----------------------------|
| Work Order:                                                                                                                                                              | MCSO1665   | Date:             | 07/16/13  |                             |
| Project:                                                                                                                                                                 | None       | Temperature:      | 23 °C     |                             |
| Job Site:                                                                                                                                                                | NC01       | Humidity:         | 42% RH    |                             |
| Serial Number:                                                                                                                                                           | 6079632553 | Barometric Pres.: | 1013 mbar |                             |
| EUT: 1601                                                                                                                                                                |            |                   |           | Tested by: Richard Mellroth |
| Configuration: 2                                                                                                                                                         |            |                   |           |                             |
| Customer: Microsoft Corporation                                                                                                                                          |            |                   |           |                             |
| Attendees: None                                                                                                                                                          |            |                   |           |                             |
| EUT Power: 110VAC/60Hz                                                                                                                                                   |            |                   |           |                             |
| Operating Mode: Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                            |            |                   |           |                             |
| Deviations: None                                                                                                                                                         |            |                   |           |                             |
| Comments: 2483.5 MHz restricted band edge measurement, 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |            |                   |           |                             |

|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.247:2013     | ANSI C63.10:2009 |

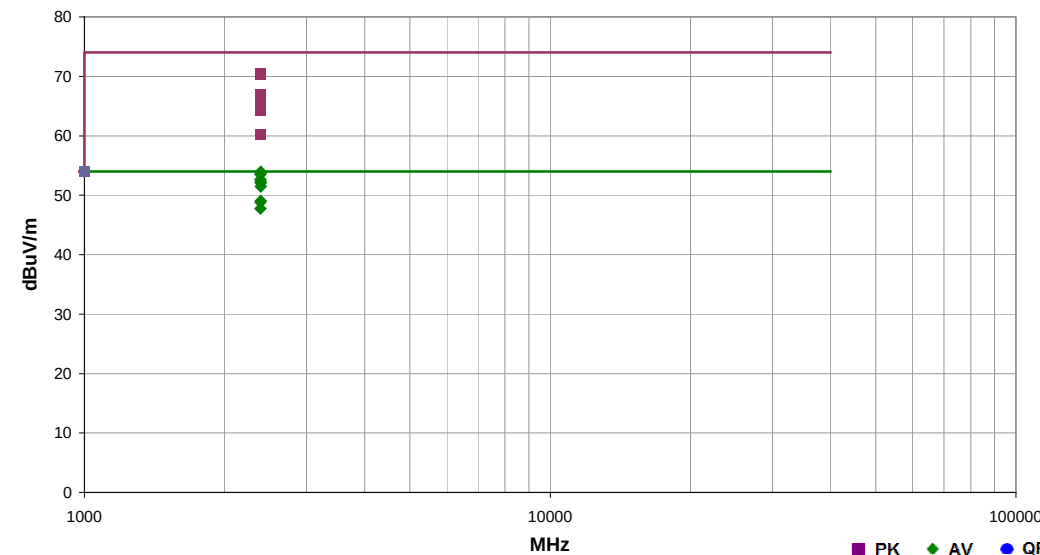


| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                                         |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------------------------------|
| 2484.623   | 34.5             | -1.5        | 1.4                     | 278.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 53.0              | 54.0                 | -1.0                   | Ch 7/11, EUT Horz, Ant B, MCS15, 10Hz Avg, 11dBm |
| 2483.500   | 29.7             | -1.5        | 1.2                     | 284.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 48.2              | 54.0                 | -5.8                   | Ch 7/11., EUT Horz, Ant B, MCS8, 10Hz Avg, 11dBm |
| 2484.430   | 47.6             | -1.5        | 1.4                     | 278.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 66.1              | 74.0                 | -7.9                   | Ch 7/11, EUT Horz, Ant B, MCS15, 10Hz Avg, 11dBm |
| 2485.143   | 27.0             | -1.5        | 1.2                     | 315.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 45.5              | 54.0                 | -8.5                   | Ch 7/11, EUT Horz, Ant B, MCS7, 10Hz Avg, 11dBm  |
| 2484.700   | 45.0             | -1.5        | 1.2                     | 284.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 63.5              | 74.0                 | -10.5                  | Ch 7/11, EUT Horz, Ant B, MCS8, 10Hz Avg, 11dBm  |
| 2484.260   | 40.2             | -1.5        | 1.2                     | 315.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 58.7              | 74.0                 | -15.3                  | Ch 7/11, EUT Horz, Ant B, MCS7, 10Hz Avg, 11dBm  |

|                 |                                                                                                                                                                         |                   |                  |                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-----------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                                                                                                                                                                | Date:             | 07/17/13         |  |
| Project:        | None                                                                                                                                                                    | Temperature:      | 23 °C            |                                                                                   |
| Job Site:       | NC01                                                                                                                                                                    | Humidity:         | 49% RH           |                                                                                   |
| Serial Number:  | 6079632553                                                                                                                                                              | Barometric Pres.: | 1017 mbar        |                                                                                   |
| EUT:            | 1601                                                                                                                                                                    | Tested by:        | Richard Mellroth |                                                                                   |
| Configuration:  | 2                                                                                                                                                                       |                   |                  |                                                                                   |
| Customer:       | Microsoft Corporation                                                                                                                                                   |                   |                  |                                                                                   |
| Attendees:      | None                                                                                                                                                                    |                   |                  |                                                                                   |
| EUT Power:      | 110VAC/60Hz                                                                                                                                                             |                   |                  |                                                                                   |
| Operating Mode: | Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                                           |                   |                  |                                                                                   |
| Deviations:     | None                                                                                                                                                                    |                   |                  |                                                                                   |
| Comments:       | 2390 MHz restricted band edge measurement, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |                   |                  |                                                                                   |

|                     |                 |             |                  |
|---------------------|-----------------|-------------|------------------|
| Test Specifications | FCC 15.247:2013 | Test Method | ANSI C63.10:2009 |
|---------------------|-----------------|-------------|------------------|

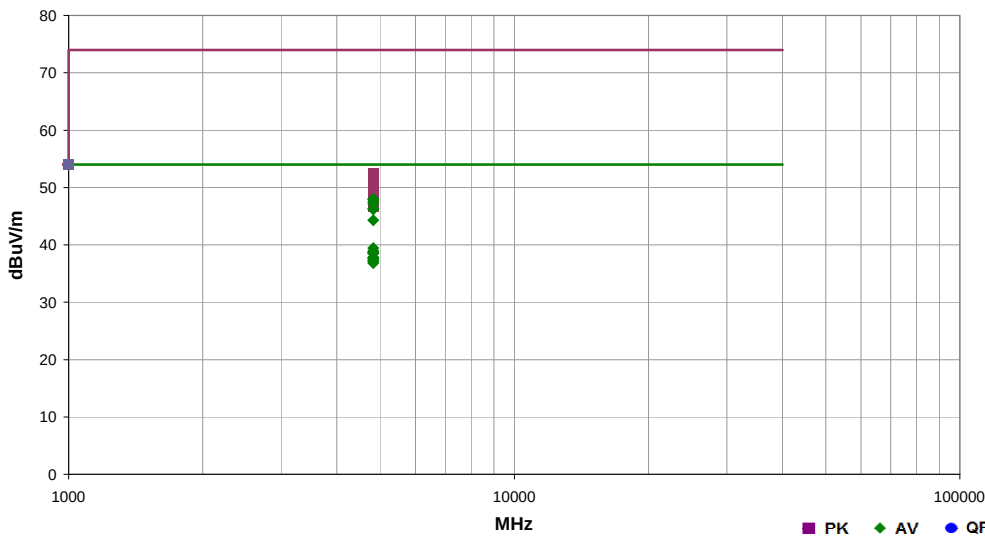
|       |    |                   |   |                   |      |         |      |
|-------|----|-------------------|---|-------------------|------|---------|------|
| Run # | 18 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|----|-------------------|---|-------------------|------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                                         |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------------------------------|
| 2389.953   | 35.7             | -1.8        | 1.2                     | 278.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 53.9              | 54.0                 | -0.1                   | Ch 1, EUT Horz, Ant B, MCS0                      |
| 2390.000   | 35.5             | -1.8        | 1.2                     | 287.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 53.7              | 54.0                 | -0.3                   | Ch 1, EUT Horz, Ant B, MCS7                      |
| 2388.053   | 35.3             | -1.8        | 1.2                     | 284.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 53.5              | 54.0                 | -0.5                   | Ch 1/5, EUT Horz, Ant B, MCS15, 10Hz Avg, 11 dBm |
| 2388.847   | 34.4             | -1.8        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 52.6              | 54.0                 | -1.4                   | Ch 1/5, EUT Horz, Ant B, MCS7, 10Hz Avg, 11 dBm  |
| 2390.000   | 34.0             | -1.8        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 52.2              | 54.0                 | -1.8                   | Ch 1, EUT Horz, Ant B, 54 Mbps                   |
| 2389.990   | 33.8             | -1.8        | 1.2                     | 284.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 52.0              | 54.0                 | -2.0                   | Ch 1, EUT Horz, Ant B, 36 Mbps                   |
| 2389.973   | 33.2             | -1.8        | 1.2                     | 282.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 51.4              | 54.0                 | -2.6                   | Ch 1, EUT Horz, Ant B, 36 Mbps                   |
| 2388.143   | 52.3             | -1.8        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 70.5              | 74.0                 | -3.5                   | Ch 1/5, EUT Horz, Ant B, MCS7, 10Hz Avg, 11 dBm  |
| 2388.243   | 52.0             | -1.8        | 1.2                     | 284.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 70.2              | 74.0                 | -3.8                   | Ch 1/5, EUT Horz, Ant B, MCS15, 10Hz Avg, 11 dBm |
| 2389.690   | 30.8             | -1.8        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 49.0              | 54.0                 | -5.0                   | Ch 1/5, EUT Horz, Ant B, MCS0, 10Hz Avg, 11 dBm  |
| 2388.363   | 30.6             | -1.8        | 1.2                     | 286.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 48.8              | 54.0                 | -5.2                   | Ch 1/5, EUT Horz, Ant B, MCS8, 10Hz Avg, 11 dBm  |
| 2388.047   | 29.5             | -1.8        | 1.2                     | 279.0           | 3.0        | 20.0                      | Horz                     | AV       | 0.0                      | 47.7              | 54.0                 | -6.3                   | Ch 1, EUT Horz, Ant B, 1 Mbps                    |
| 2389.890   | 48.7             | -1.8        | 1.2                     | 278.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 66.9              | 74.0                 | -7.1                   | Ch 1, EUT Horz, Ant B, MCS0                      |
| 2389.437   | 48.5             | -1.8        | 1.2                     | 287.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 66.7              | 74.0                 | -7.3                   | Ch 1, EUT Horz, Ant B, MCS7                      |
| 2389.813   | 48.4             | -1.8        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 66.6              | 74.0                 | -7.4                   | Ch 1/5, EUT Horz, Ant B, MCS0, 10Hz Avg, 11 dBm  |
| 2388.873   | 47.6             | -1.8        | 1.2                     | 284.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 65.8              | 74.0                 | -8.2                   | Ch 1, EUT Horz, Ant B, 6 Mbps                    |
| 2389.947   | 46.9             | -1.8        | 1.2                     | 283.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 65.1              | 74.0                 | -8.9                   | Ch 1, EUT Horz, Ant B, 54 Mbps                   |
| 2388.207   | 46.5             | -1.8        | 1.2                     | 286.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 64.7              | 74.0                 | -9.3                   | Ch 1/5, EUT Horz, Ant B, MCS8, 10Hz Avg, 11 dBm  |
| 2389.920   | 45.9             | -1.8        | 1.2                     | 282.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 64.1              | 74.0                 | -9.9                   | Ch 1, EUT Horz, Ant B, 36 Mbps                   |
| 2389.463   | 41.9             | -1.8        | 1.2                     | 279.0           | 3.0        | 20.0                      | Horz                     | PK       | 0.0                      | 60.1              | 74.0                 | -13.9                  | Ch 1, EUT Horz, Ant B, 1 Mbps                    |

|                     |                                                                                                                                                                                   |                             |           |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|-----------------------------------------------------------------------------------|
| Work Order:         | MCSO1665                                                                                                                                                                          | Date:                       | 07/17/13  |  |
| Project:            | None                                                                                                                                                                              | Temperature:                | 23 °C     |                                                                                   |
| Job Site:           | NC01                                                                                                                                                                              | Humidity:                   | 49% RH    |                                                                                   |
| Serial Number:      | 6079632553                                                                                                                                                                        | Barometric Pres.:           | 1017 mbar |                                                                                   |
| EUT:                | 1601                                                                                                                                                                              | Tested by: Richard Mellroth |           |                                                                                   |
| Configuration:      | 2                                                                                                                                                                                 |                             |           |                                                                                   |
| Customer:           | Microsoft Corporation                                                                                                                                                             |                             |           |                                                                                   |
| Attendees:          | None                                                                                                                                                                              |                             |           |                                                                                   |
| EUT Power:          | 110VAC/60Hz                                                                                                                                                                       |                             |           |                                                                                   |
| Operating Mode:     | Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                                                     |                             |           |                                                                                   |
| Deviations:         | None                                                                                                                                                                              |                             |           |                                                                                   |
| Comments:           | Harmonics and restricted band emission measurements, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |                             |           |                                                                                   |
| Test Specifications |                                                                                                                                                                                   | Test Method                 |           |                                                                                   |
| FCC 15.247:2013     |                                                                                                                                                                                   | ANSI C63.10:2009            |           |                                                                                   |

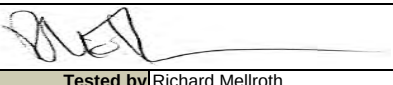
| Run # | 31 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|----|-------------------|---|-------------------|------|---------|------|
|-------|----|-------------------|---|-------------------|------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                       |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|---------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------------|
| 4823.965   | 39.8             | 8.2         | 1.4                     | 164.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 48.0              | 54.0                 | -6.0                   | Ch 1, EUT Flat, Ant AB, 1 Mbps |
| 4823.995   | 39.7             | 8.2         | 1.6                     | 164.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 47.9              | 54.0                 | -6.1                   | Ch 1, EUT Flat, Ant A, 1 Mbps  |
| 4823.985   | 39.3             | 8.2         | 1.4                     | 336.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 47.5              | 54.0                 | -6.5                   | Ch 1, EUT Horz, Ant A, 1 Mbps  |
| 4824.020   | 38.9             | 8.2         | 1.4                     | 335.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 47.1              | 54.0                 | -6.9                   | Ch 1, EUT Horz, Ant AB, 1 Mbps |
| 4823.990   | 38.1             | 8.2         | 1.2                     | 86.0            | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 46.3              | 54.0                 | -7.7                   | Ch 1, EUT Vert, Ant A, 1 Mbps  |
| 4824.000   | 38.0             | 8.2         | 1.2                     | 215.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 46.2              | 54.0                 | -7.8                   | Ch 1, EUT Flat, Ant B, 1 Mbps  |
| 4823.980   | 36.1             | 8.2         | 1.2                     | 76.0            | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 44.3              | 54.0                 | -9.7                   | Ch 1, EUT Vert, Ant AB, 1 Mbps |
| 4824.010   | 31.2             | 8.2         | 1.2                     | 299.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 39.4              | 54.0                 | -14.6                  | Ch 1, EUT Horz, Ant A, 1 Mbps  |
| 4824.090   | 30.7             | 8.2         | 1.2                     | 359.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 38.9              | 54.0                 | -15.1                  | Ch 1, EUT Flat, Ant AB, 1 Mbps |
| 4824.000   | 30.5             | 8.2         | 1.2                     | 14.0            | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 38.7              | 54.0                 | -15.3                  | Ch 1, EUT Horz, Ant AB, 1 Mbps |
| 4823.990   | 30.4             | 8.2         | 1.2                     | 360.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 38.6              | 54.0                 | -15.4                  | Ch 1, EUT Flat, Ant AB, 1 Mbps |
| 4824.080   | 30.3             | 8.2         | 1.7                     | 345.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 38.5              | 54.0                 | -15.5                  | Ch 1, EUT Horz, Ant B, 1 Mbps  |
| 4824.010   | 29.6             | 8.2         | 1.2                     | 103.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 37.8              | 54.0                 | -16.2                  | Ch 1, EUT Vert, Ant B, 1 Mbps  |
| 4823.965   | 29.5             | 8.2         | 1.4                     | 118.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 37.7              | 54.0                 | -16.3                  | Ch 1, EUT Vert, Ant A, 1 Mbps  |
| 4823.970   | 29.3             | 8.2         | 1.1                     | 187.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 37.5              | 54.0                 | -16.5                  | Ch 1, EUT Vert, Ant AB, 1 Mbps |
| 4824.120   | 29.1             | 8.2         | 1.2                     | 296.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 37.3              | 54.0                 | -16.7                  | Ch 1, EUT Horz, Ant B, 1 Mbps  |
| 4823.960   | 28.9             | 8.2         | 1.2                     | 78.0            | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 37.1              | 54.0                 | -16.9                  | Ch 1, EUT Vert, Ant B, 1 Mbps  |
| 4823.910   | 28.6             | 8.2         | 1.2                     | 40.0            | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 36.8              | 54.0                 | -17.2                  | Ch 1, EUT Flat, Ant B, 1 Mbps  |
| 4823.940   | 44.3             | 8.2         | 1.6                     | 164.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 52.5              | 74.0                 | -21.5                  | Ch 1, EUT Flat, Ant A, 1 Mbps  |
| 4823.820   | 44.2             | 8.2         | 1.4                     | 164.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 52.4              | 74.0                 | -21.6                  | Ch 1, EUT Flat, Ant AB, 1 Mbps |
| 4823.930   | 43.8             | 8.2         | 1.4                     | 336.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 52.0              | 74.0                 | -22.0                  | Ch 1, EUT Horz, Ant A, 1 Mbps  |
| 4824.255   | 43.7             | 8.2         | 1.4                     | 335.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 51.9              | 74.0                 | -22.1                  | Ch 1, EUT Horz, Ant AB, 1 Mbps |
| 4824.105   | 43.2             | 8.2         | 1.2                     | 86.0            | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 51.4              | 74.0                 | -22.6                  | Ch 1, EUT Vert, Ant A, 1 Mbps  |
| 4824.075   | 42.8             | 8.2         | 1.2                     | 215.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 51.0              | 74.0                 | -23.0                  | Ch 1, EUT Flat, Ant AB, 1 Mbps |
| 4823.935   | 42.0             | 8.2         | 1.2                     | 76.0            | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 50.2              | 74.0                 | -23.8                  | Ch 1, EUT Vert, Ant AB, 1 Mbps |
| 4824.040   | 40.1             | 8.2         | 1.2                     | 360.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 48.3              | 74.0                 | -25.7                  | Ch 1, EUT Flat, Ant AB, 1 Mbps |
| 4824.620   | 39.9             | 8.2         | 1.2                     | 299.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 48.1              | 74.0                 | -25.9                  | Ch 1, EUT Horz, Ant A, 1 Mbps  |
| 4824.000   | 39.6             | 8.2         | 1.1                     | 187.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 47.8              | 74.0                 | -26.2                  | Ch 1, EUT Vert, Ant AB, 1 Mbps |
| 4824.165   | 39.5             | 8.2         | 1.7                     | 345.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 47.7              | 74.0                 | -26.3                  | Ch 1, EUT Horz, Ant B, 1 Mbps  |
| 4823.855   | 39.3             | 8.2         | 1.2                     | 14.0            | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 47.5              | 74.0                 | -26.5                  | Ch 1, EUT Horz, Ant AB, 1 Mbps |
| 4823.940   | 39.1             | 8.2         | 1.2                     | 359.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 47.3              | 74.0                 | -26.7                  | Ch 1, EUT Flat, Ant A, 1 Mbps  |
| 4823.800   | 39.1             | 8.2         | 1.2                     | 78.0            | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 47.3              | 74.0                 | -26.7                  | Ch 1, EUT Vert, Ant B, 1 Mbps  |
| 4823.750   | 38.8             | 8.2         | 1.2                     | 296.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 47.0              | 74.0                 | -27.0                  | Ch 1, EUT Horz, Ant B, 1 Mbps  |
| 4823.710   | 38.7             | 8.2         | 1.2                     | 103.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 46.9              | 74.0                 | -27.1                  | Ch 1, EUT Vert, Ant B, 1 Mbps  |
| 4823.350   | 38.6             | 8.2         | 1.4                     | 118.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 46.8              | 74.0                 | -27.2                  | Ch 1, EUT Vert, Ant A, 1 Mbps  |
| 4825.130   | 38.5             | 8.2         | 1.2                     | 40.0            | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 46.7              | 74.0                 | -27.3                  | Ch 1, EUT Flat, Ant B, 1 Mbps  |

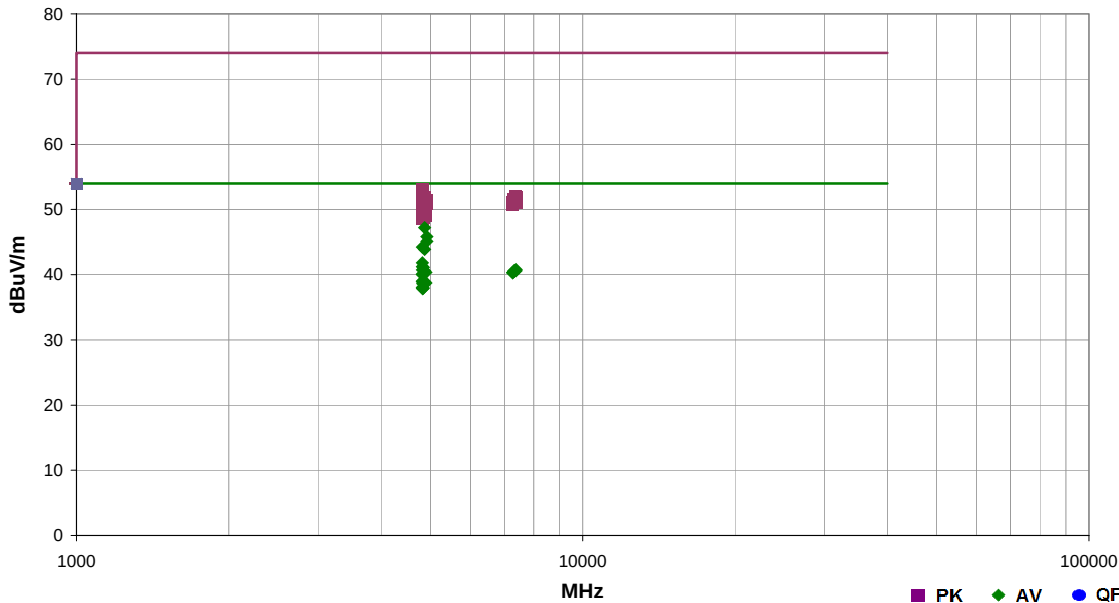
## SPURIOUS RADIATED EMISSIONS - 2.4 GHz Band

PSA-ESCI 2012.12.14  
EmiR5 2013.05.31

|                 |                                                                                                                                                                                   |                   |                  |                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                                                                                                                                                                          | Date:             | 07/17/13         |  |
| Project:        | None                                                                                                                                                                              | Temperature:      | 24 °C            |                                                                                    |
| Job Site:       | NC01                                                                                                                                                                              | Humidity:         | 45% RH           |                                                                                    |
| Serial Number:  | 6079632553                                                                                                                                                                        | Barometric Pres.: | 1021 mbar        |                                                                                    |
| EUT:            | 1601                                                                                                                                                                              | Tested by:        | Richard Mellroth |                                                                                    |
| Configuration:  | 2                                                                                                                                                                                 |                   |                  |                                                                                    |
| Customer:       | Microsoft Corporation                                                                                                                                                             |                   |                  |                                                                                    |
| Attendees:      | None                                                                                                                                                                              |                   |                  |                                                                                    |
| EUT Power:      | 110VAC/60Hz                                                                                                                                                                       |                   |                  |                                                                                    |
| Operating Mode: | Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                                                     |                   |                  |                                                                                    |
| Deviations:     | None                                                                                                                                                                              |                   |                  |                                                                                    |
| Comments:       | Harmonics and restricted band emission measurements, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |                   |                  |                                                                                    |

| Test Specifications | Test Method      |
|---------------------|------------------|
| FCC 15.247:2013     | ANSI C63.10:2009 |

| Run # | 34 | Test Distance | 3 | Antenna Height | 1-4m | Results | Pass |
|-------|----|---------------|---|----------------|------|---------|------|
|-------|----|---------------|---|----------------|------|---------|------|



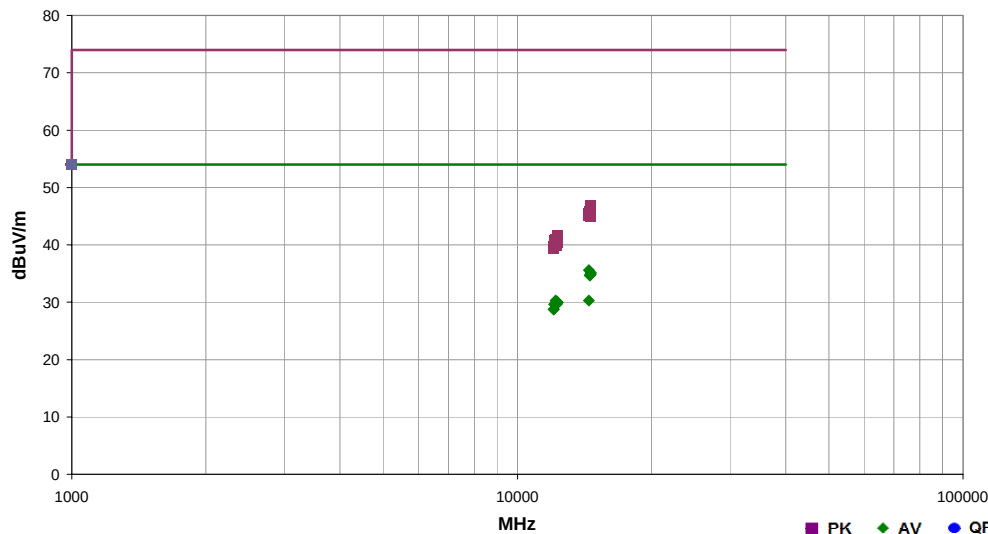
| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                       |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------------|
| 4874.020   | 38.9             | 8.3         | 1.6                     | 163.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 47.2              | 54.0                 | -6.8                   | Ch 6, EUT Flat, Ant A, 1 Mbps  |
| 4923.975   | 37.4             | 8.4         | 1.6                     | 139.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 45.8              | 54.0                 | -8.2                   | Ch 11, EUT Flat, Ant A, 1 Mbps |
| 4924.017   | 36.7             | 8.4         | 1.2                     | 141.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 45.1              | 54.0                 | -8.9                   | Ch 11, EUT Vert, Ant A, 1 Mbps |
| 4823.990   | 36.0             | 8.2         | 1.6                     | 165.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 44.2              | 54.0                 | -9.8                   | Ch 1, EUT Flat, Ant A, 11 Mbps |
| 4873.992   | 35.6             | 8.3         | 1.2                     | 123.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 43.9              | 54.0                 | -10.1                  | Ch 6, EUT Vert, Ant A, 1 Mbps  |
| 4824.058   | 33.6             | 8.2         | 1.2                     | 158.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 41.8              | 54.0                 | -12.2                  | Ch 1, EUT Flat, Ant A, 11 Mbps |
| 4822.525   | 33.0             | 8.2         | 1.6                     | 165.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 41.2              | 54.0                 | -12.8                  | Ch 1, EUT Flat, Ant A, 36 Mbps |
| 4841.900   | 32.9             | 8.2         | 1.7                     | 165.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 41.1              | 54.0                 | -12.9                  | Ch 1/5, EUT Flat, Ant A, MCS7  |
| 7388.483   | 28.0             | 12.8        | 1.7                     | 73.0            | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.8              | 54.0                 | -13.2                  | Ch 11, EUT Flat, Ant A, 1 Mbps |
| 4824.530   | 32.5             | 8.2         | 1.6                     | 161.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.7              | 54.0                 | -13.3                  | Ch 1, EUT Flat, Ant A, 54 Mbps |
| 7355.417   | 28.1             | 12.6        | 1.2                     | 359.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 40.7              | 54.0                 | -13.3                  | Ch 7/11, EUT Vert, Ant A, MCS7 |
| 7354.275   | 28.1             | 12.6        | 2.5                     | 236.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.7              | 54.0                 | -13.3                  | Ch 7/11, EUT Flat, Ant A, MCS7 |
| 7388.317   | 27.8             | 12.8        | 1.2                     | 277.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 40.6              | 54.0                 | -13.4                  | Ch 11, EUT Vert, Ant A, 1 Mbps |
| 4871.808   | 32.3             | 8.3         | 1.6                     | 162.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.6              | 54.0                 | -13.4                  | Ch 4/8, EUT Flat, Ant A, MCS7  |
| 7310.517   | 28.2             | 12.4        | 1.2                     | 121.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 40.6              | 54.0                 | -13.4                  | Ch 6, EUT Vert, Ant A, 1 Mbps  |
| 7308.792   | 28.2             | 12.4        | 1.2                     | 11.0            | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.6              | 54.0                 | -13.4                  | Ch 6, EUT Flat, Ant A, 1 Mbps  |
| 7308.592   | 28.2             | 12.3        | 1.2                     | 256.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.5              | 54.0                 | -13.5                  | Ch 4/8, EUT Flat, Ant A, MCS7  |
| 7308.500   | 28.2             | 12.3        | 1.2                     | 219.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 40.5              | 54.0                 | -13.5                  | Ch 4/8, EUT Vert, Ant A, MCS7  |
| 4901.733   | 32.0             | 8.3         | 1.4                     | 139.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.3              | 54.0                 | -13.7                  | Ch 7/11, EUT Flat, Ant A, MCS7 |
| 7268.242   | 28.2             | 12.1        | 1.2                     | 59.0            | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.3              | 54.0                 | -13.7                  | Ch 1/5, EUT Flat, Ant A, MCS7  |
| 7268.000   | 28.2             | 12.1        | 1.2                     | 105.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 40.3              | 54.0                 | -13.7                  | Ch 1/5, EUT Vert, Ant A, MCS7  |
| 4823.780   | 31.9             | 8.2         | 1.6                     | 141.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.1              | 54.0                 | -13.9                  | Ch 1, EUT Flat, Ant A, MCS7    |
| 4823.775   | 31.8             | 8.2         | 1.3                     | 162.0           | 3.0        | 0.0                       | Horz                     | AV       | 0.0                      | 40.0              | 54.0                 | -14.0                  | Ch 1, EUT Vert, Ant A, MCS0    |
| 4826.358   | 30.8             | 8.2         | 1.2                     | 160.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 39.0              | 54.0                 | -15.0                  | Ch 1, EUT Vert, Ant A, 6 Mbps  |
| 4826.408   | 30.7             | 8.2         | 1.2                     | 159.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 38.9              | 54.0                 | -15.1                  | Ch 1, EUT Vert, Ant A, MCS0    |
| 4875.480   | 30.6             | 8.3         | 1.2                     | 156.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 38.9              | 54.0                 | -15.1                  | Ch 4/8, EUT Vert, Ant A, MCS7  |
| 4901.742   | 30.4             | 8.3         | 1.2                     | 132.0           | 3.0        | 0.0                       | Vert                     | AV       | 0.0                      | 38.7              | 54.0                 | -15.3                  | Ch 7/11, EUT Vert, Ant A, MCS7 |

| Freq<br>(MHz) | Amplitude<br>(dBuV) | Preamp<br>(dB) | Antenna Height<br>(meters) | Transducer<br>(dB) | Cable<br>(dB) | External<br>Attenuation<br>(dB) | Polarity/<br>Transducer<br>Type | Detector | Distance<br>Adjustment<br>(dB) | Adjusted<br>(dBuV/m) | Spec. Limit<br>(dBuV/m) | Compared to<br>Spec.<br>(dB) | Comments                       |
|---------------|---------------------|----------------|----------------------------|--------------------|---------------|---------------------------------|---------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|--------------------------------|
| 4826.483      | 30.4                | 8.2            | 1.2                        | 155.0              | 3.0           | 0.0                             | Vert                            | AV       | 0.0                            | 38.6                 | 54.0                    | -15.4                        | Ch 1, EUT Vert, Ant A, 54 Mbps |
| 4822.942      | 29.8                | 8.2            | 1.2                        | 151.0              | 3.0           | 0.0                             | Vert                            | AV       | 0.0                            | 38.0                 | 54.0                    | -16.0                        | Ch 1, EUT Vert, Ant A, 36 Mbps |
| 4845.460      | 29.7                | 8.3            | 1.2                        | 147.0              | 3.0           | 0.0                             | Vert                            | AV       | 0.0                            | 38.0                 | 54.0                    | -16.0                        | Ch 1/5, EUT Vert, Ant A, MCS7  |
| 4825.500      | 29.7                | 8.2            | 1.2                        | 160.0              | 3.0           | 0.0                             | Vert                            | AV       | 0.0                            | 37.9                 | 54.0                    | -16.1                        | Ch 1, EUT Vert, Ant A, MCS7    |
| 4826.475      | 29.6                | 8.2            | 1.2                        | 64.0               | 3.0           | 0.0                             | Horz                            | AV       | 0.0                            | 37.8                 | 54.0                    | -16.2                        | Ch 1, EUT Flat, Ant A, 6 Mbps  |
| 4823.995      | 44.9                | 8.2            | 1.6                        | 165.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 53.1                 | 74.0                    | -20.9                        | Ch 1, EUT Flat, Ant A, 11 Mbps |
| 7356.542      | 39.3                | 12.6           | 2.5                        | 236.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.9                 | 74.0                    | -22.1                        | Ch 7/11, EUT Flat, Ant A, MCS7 |
| 4874.100      | 43.6                | 8.3            | 1.6                        | 163.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.9                 | 74.0                    | -22.1                        | Ch 6, EUT Flat, Ant A, 1 Mbps  |
| 7385.483      | 39.1                | 12.8           | 1.7                        | 73.0               | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.9                 | 74.0                    | -22.1                        | Ch 11, EUT Flat, Ant A, 1 Mbps |
| 7354.317      | 39.0                | 12.6           | 1.2                        | 359.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 51.6                 | 74.0                    | -22.4                        | Ch 7/11, EUT Vert, Ant A, MCS7 |
| 7308.775      | 39.2                | 12.4           | 1.2                        | 121.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 51.6                 | 74.0                    | -22.4                        | Ch 6, EUT Vert, Ant A, 1 Mbps  |
| 7308.650      | 39.2                | 12.4           | 1.2                        | 256.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.6                 | 74.0                    | -22.4                        | Ch 4/8, EUT Flat, Ant A, MCS7  |
| 4823.760      | 43.3                | 8.2            | 1.3                        | 162.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.5                 | 74.0                    | -22.5                        | Ch 1, EUT Flat, Ant A, MCS0    |
| 4823.715      | 43.3                | 8.2            | 1.6                        | 165.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.5                 | 74.0                    | -22.5                        | Ch 1, EUT Flat, Ant A, 36 Mbps |
| 4823.500      | 43.3                | 8.2            | 1.6                        | 141.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.5                 | 74.0                    | -22.5                        | Ch 1, EUT Flat, Ant A, MCS7    |
| 4923.875      | 42.9                | 8.4            | 1.6                        | 139.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.3                 | 74.0                    | -22.7                        | Ch 11, EUT Flat, Ant A, 1 Mbps |
| 7313.050      | 38.9                | 12.4           | 1.2                        | 11.0               | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.3                 | 74.0                    | -22.7                        | Ch 6, EUT Flat, Ant A, 1 Mbps  |
| 7310.450      | 38.8                | 12.4           | 1.2                        | 219.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 51.2                 | 74.0                    | -22.8                        | Ch 4/8, EUT Vert, Ant A, MCS7  |
| 7267.883      | 39.0                | 12.1           | 1.2                        | 105.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 51.1                 | 74.0                    | -22.9                        | Ch 1/5, EUT Vert, Ant A, MCS7  |
| 7383.608      | 38.3                | 12.8           | 1.2                        | 277.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 51.1                 | 74.0                    | -22.9                        | Ch 11, EUT Vert, Ant A, 1 Mbps |
| 4841.867      | 42.8                | 8.2            | 1.7                        | 165.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.0                 | 74.0                    | -23.0                        | Ch 1/5, EUT Flat, Ant A, MCS7  |
| 4823.883      | 42.8                | 8.2            | 1.2                        | 158.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 51.0                 | 74.0                    | -23.0                        | Ch 1, EUT Vert, Ant A, 11 Mbps |
| 4822.665      | 42.8                | 8.2            | 1.6                        | 161.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 51.0                 | 74.0                    | -23.0                        | Ch 1, EUT Flat, Ant A, 54 Mbps |
| 4924.150      | 42.5                | 8.4            | 1.2                        | 141.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 50.9                 | 74.0                    | -23.1                        | Ch 11, EUT Vert, Ant A, 1 Mbps |
| 4871.808      | 42.6                | 8.3            | 1.6                        | 162.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 50.9                 | 74.0                    | -23.1                        | Ch 4/8, EUT Flat, Ant A, MCS7  |
| 4902.092      | 42.5                | 8.3            | 1.4                        | 139.0              | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 50.8                 | 74.0                    | -23.2                        | Ch 7/11, EUT Flat, Ant A, MCS7 |
| 7265.500      | 38.7                | 12.1           | 1.2                        | 59.0               | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 50.8                 | 74.0                    | -23.2                        | Ch 1/5, EUT Flat, Ant A, MCS7  |
| 4874.117      | 41.4                | 8.3            | 1.2                        | 123.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.7                 | 74.0                    | -24.3                        | Ch 6, EUT Vert, Ant A, 1 Mbps  |
| 4825.642      | 41.4                | 8.2            | 1.2                        | 160.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.6                 | 74.0                    | -24.4                        | Ch 1, EUT Vert, Ant A, 6 Mbps  |
| 4872.545      | 41.1                | 8.3            | 1.2                        | 156.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.4                 | 74.0                    | -24.6                        | Ch 4/8, EUT Vert, Ant A, MCS7  |
| 4826.333      | 41.1                | 8.2            | 1.2                        | 159.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.3                 | 74.0                    | -24.7                        | Ch 1, EUT Vert, Ant A, MCS0    |
| 4824.858      | 41.1                | 8.2            | 1.2                        | 155.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.3                 | 74.0                    | -24.7                        | Ch 1, EUT Vert, Ant A, 54 Mbps |
| 4825.617      | 41.0                | 8.2            | 1.2                        | 151.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.2                 | 74.0                    | -24.8                        | Ch 1, EUT Vert, Ant A, 36 Mbps |
| 4901.633      | 40.8                | 8.3            | 1.2                        | 132.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 49.1                 | 74.0                    | -24.9                        | Ch 7/11, EUT Vert, Ant A, MCS7 |
| 4824.408      | 40.7                | 8.2            | 1.2                        | 64.0               | 3.0           | 0.0                             | Horz                            | PK       | 0.0                            | 48.9                 | 74.0                    | -25.1                        | Ch 1, EUT Flat, Ant A, 6 Mbps  |
| 4845.465      | 40.5                | 8.3            | 1.2                        | 147.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 48.8                 | 74.0                    | -25.2                        | Ch 1/5, EUT Vert, Ant A, MCS7  |
| 4823.525      | 40.4                | 8.2            | 1.2                        | 160.0              | 3.0           | 0.0                             | Vert                            | PK       | 0.0                            | 48.6                 | 74.0                    | -25.4                        | Ch 1, EUT Vert, Ant A, MCS7    |



|                     |                                                                                                                                                                                   |                   |             |                                                                                    |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|------------------------------------------------------------------------------------|
| Work Order:         | MCSO1665                                                                                                                                                                          | Date:             | 07/17/13    |  |
| Project:            | None                                                                                                                                                                              | Temperature:      | 24 °C       |                                                                                    |
| Job Site:           | NC01                                                                                                                                                                              | Humidity:         | 45% RH      |                                                                                    |
| Serial Number:      | 6079632553                                                                                                                                                                        | Barometric Pres.: | 1021 mbar   |                                                                                    |
| EUT:                | 1601                                                                                                                                                                              |                   |             |                                                                                    |
| Configuration:      | 2                                                                                                                                                                                 |                   |             |                                                                                    |
| Customer:           | Microsoft Corporation                                                                                                                                                             |                   |             |                                                                                    |
| Attendees:          | None                                                                                                                                                                              |                   |             |                                                                                    |
| EUT Power:          | 110VAC/60Hz                                                                                                                                                                       |                   |             |                                                                                    |
| Operating Mode:     | Transmitting at 100% Duty Cycle, 802.11 b/g/n                                                                                                                                     |                   |             |                                                                                    |
| Deviations:         | None                                                                                                                                                                              |                   |             |                                                                                    |
| Comments:           | Harmonics and restricted band emission measurements, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain |                   |             |                                                                                    |
| Test Specifications | FCC 15.247:2013                                                                                                                                                                   |                   | Test Method | ANSI C63.10:2009                                                                   |

| Run # | 36 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|----|-------------------|---|-------------------|------|---------|------|
|-------|----|-------------------|---|-------------------|------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                        |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|---------------------------|----------|--------------------------|-------------------|----------------------|------------------------|---------------------------------|
| 14471.930  | 31.3             | 4.3         | 1.2                     | 113.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 35.6              | 54.0                 | -18.4                  | Ch 1, EUT Vert, Ant A, 1 Mbps   |
| 14622.270  | 30.8             | 4.3         | 1.2                     | 40.0            | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 35.1              | 54.0                 | -18.9                  | Ch 4/8, EUT Vert, Ant A, MCS7   |
| 14623.800  | 30.6             | 4.3         | 1.2                     | 302.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 34.9              | 54.0                 | -19.1                  | Ch 4/8, EUT Flat, Ant A, MCS7   |
| 14531.890  | 30.5             | 4.2         | 1.2                     | 212.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 34.7              | 54.0                 | -19.3                  | Ch 1/5, EUT Vert, Ant A, MCS7   |
| 14531.550  | 30.4             | 4.2         | 3.9                     | 201.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 34.6              | 54.0                 | -19.4                  | Ch 1/5, EUT Flat, Ant A, MCS7   |
| 14472.340  | 26.0             | 4.3         | 1.2                     | 206.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 30.3              | 54.0                 | -23.7                  | Ch 1, EUT Flat, Ant A, 1 Mbps   |
| 12187.380  | 33.4             | -3.1        | 1.2                     | 122.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 30.3              | 54.0                 | -23.7                  | Ch 4/8, EUT Vert, Ant A, MCS7   |
| 12260.590  | 33.2             | -3.1        | 1.2                     | 103.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 30.1              | 54.0                 | -23.9                  | Ch 7/11, EUT Vert, Ant A, MCS7  |
| 12311.390  | 33.0             | -3.0        | 1.2                     | 15.0            | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 30.0              | 54.0                 | -24.0                  | Ch 11, EUT Vert, Ant A, 1 Mbps  |
| 12311.070  | 33.0             | -3.0        | 3.7                     | 70.0            | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 30.0              | 54.0                 | -24.0                  | Ch 11, EUT Flat, Ant A, 1 Mbps  |
| 12186.980  | 33.1             | -3.1        | 1.2                     | 124.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 30.0              | 54.0                 | -24.0                  | Ch 6, EUT Vert, Ant A, 1 Mbps   |
| 12186.430  | 32.9             | -3.1        | 1.2                     | 239.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.8              | 54.0                 | -24.2                  | Ch 4/8, EUT Flat, Ant A, MCS7   |
| 12185.710  | 32.9             | -3.1        | 1.2                     | 214.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.8              | 54.0                 | -24.2                  | Ch 6, EUT Flat, Ant A, MCS7     |
| 12258.480  | 32.8             | -3.1        | 1.2                     | 112.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.7              | 54.0                 | -24.3                  | Ch 7/11, EUT Flat, Ant A, MCS7  |
| 12111.950  | 32.8             | -3.2        | 1.2                     | 147.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.6              | 54.0                 | -24.4                  | Ch 1/5, EUT Flat, Ant A, MCS7   |
| 12111.520  | 32.8             | -3.2        | 1.2                     | 282.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 29.6              | 54.0                 | -24.4                  | Ch 1/5, EUT Vert, Ant A, MCS7   |
| 12058.060  | 32.0             | -3.2        | 1.2                     | 290.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 28.8              | 54.0                 | -25.2                  | Ch 1, EUT Vert, Ant A, 1 Mbps   |
| 12058.120  | 31.9             | -3.2        | 3.1                     | 169.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 28.7              | 54.0                 | -25.3                  | Ch 1, EUT Flat, Ant A, 1 Mbps   |
| 14620.080  | 42.5             | 4.3         | 1.2                     | 40.0            | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 46.8              | 74.0                 | -27.2                  | Ch 4/8, EUT Vert, Ant A, MCS7   |
| 14531.590  | 41.5             | 4.2         | 1.2                     | 212.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 45.7              | 74.0                 | -28.3                  | Ch 1/5, EUT Vert, Ant A, MCS7   |
| 14472.020  | 41.2             | 4.3         | 1.2                     | 113.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 45.5              | 74.0                 | -28.5                  | Ch 1, EUT Vert, Ant A, 1 Mbps   |
| 14534.400  | 41.1             | 4.2         | 3.9                     | 201.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 45.3              | 74.0                 | -28.7                  | Ch 1/5, EUT Flat, Ant A, MCS7   |
| 14472.190  | 40.9             | 4.3         | 1.2                     | 206.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 45.2              | 74.0                 | -28.8                  | Ch 1, EUT Flat, Ant A, 1 Mbps   |
| 14622.500  | 40.7             | 4.3         | 1.2                     | 302.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 45.0              | 74.0                 | -29.0                  | Ch 4/8, EUT Flat, Ant A, MCS7   |
| 12309.690  | 44.7             | -3.0        | 1.2                     | 15.0            | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 41.7              | 74.0                 | -32.3                  | Ch 11, EUT Vert, Ant A, 1 Mbps  |
| 12185.950  | 44.1             | -3.1        | 1.2                     | 124.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 41.0              | 74.0                 | -33.0                  | Ch 6, EUT Vert, Ant A, 1 Mbps   |
| 12182.910  | 43.9             | -3.1        | 1.2                     | 214.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.8              | 74.0                 | -33.2                  | Ch 4/8, EUT Flat, Ant A, 1 Mbps |
| 12182.610  | 43.9             | -3.1        | 1.2                     | 122.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 40.8              | 74.0                 | -33.2                  | Ch 11, EUT Vert, Ant A, 1 Mbps  |
| 12112.030  | 43.9             | -3.2        | 1.2                     | 147.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.7              | 74.0                 | -33.3                  | Ch 1/5, EUT Flat, Ant A, MCS7   |
| 12107.730  | 43.9             | -3.2        | 1.2                     | 282.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 40.7              | 74.0                 | -33.3                  | Ch 1/5, EUT Vert, Ant A, MCS7   |
| 12259.240  | 43.8             | -3.1        | 1.2                     | 103.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 40.7              | 74.0                 | -33.3                  | Ch 7/11, EUT Vert, Ant A, MCS7  |
| 12308.690  | 43.5             | -3.0        | 3.7                     | 70.0            | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.5              | 74.0                 | -33.5                  | Ch 11, EUT Flat, Ant A, 1 Mbps  |
| 12185.530  | 43.4             | -3.1        | 1.2                     | 239.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.3              | 74.0                 | -33.7                  | Ch 4/8, EUT Flat, Ant A, MCS7   |
| 12258.630  | 43.0             | -3.1        | 1.2                     | 112.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 39.9              | 74.0                 | -34.1                  | Ch 7/11, EUT Flat, Ant A, MCS7  |
| 12062.080  | 42.9             | -3.2        | 3.1                     | 169.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 39.7              | 74.0                 | -34.3                  | Ch 1, EUT Flat, Ant A, 1 Mbps   |
| 12058.150  | 42.6             | -3.2        | 1.2                     | 290.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 39.4              | 74.0                 | -34.6                  | Ch 1, EUT Vert, Ant A, 1 Mbps   |

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

## MODES OF OPERATION, 5 GHz Band

|                    |
|--------------------|
| 802.11(a), 6 Mbps  |
| 802.11(a), 36 Mbps |
| 802.11(a), 54 Mbps |
| 802.11(n), MCS0    |
| 802.11(n), MCS7    |
| 802.11(n), MCS8    |
| 802.11(n), MCS15   |

## CHANNELS TESTED, 5 GHz BAND, 20 MHz CHANNEL BANDWIDTH

|                       |
|-----------------------|
| Channel 149, 5745 MHz |
| Channel 157, 5785 MHz |
| Channel 165, 5825 MHz |

## CHANNELS TESTED, 5 GHz BAND, 40 MHz CHANNEL BANDWIDTH

|                           |
|---------------------------|
| Channel 149/153, 5755 MHz |
| Channel 157/161, 5795 MHz |

## CONFIGURATIONS INVESTIGATED

|              |
|--------------|
| MCSO1665 - 2 |
|--------------|

## FREQUENCY RANGE INVESTIGATED

|                 |        |                |           |
|-----------------|--------|----------------|-----------|
| Start Frequency | 30 MHz | Stop Frequency | 40000 MHz |
|-----------------|--------|----------------|-----------|

## SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

## TEST EQUIPMENT

| Description       | Manufacturer       | Model                  | ID  | Last Cal.  | Interval |
|-------------------|--------------------|------------------------|-----|------------|----------|
| Attenuator        | Fairview Microwave | SA18E-20               | AQV | 1/18/2013  | 12 mo    |
| HP Filter         | Micro-Tronics      | HPM50111               | HHI | 1/18/2013  | 24 mo    |
| Pre-Amplifier     | Miteq              | AMF-3D-00100800-32-13P | AVZ | 12/13/2012 | 12 mo    |
| Antenna, Horn     | EMCO               | 3115                   | AHM | 6/19/2012  | 24 mo    |
| NC02 Cable        | ESM Cable Corp.    | TTBJ-141-KMKM-72       | NC5 | 7/3/2013   | 12 mo    |
| BP Filter         | Micro-Tronics      | BRC50705               | HHM | 6/20/2013  | 36 mo    |
| BP Filter         | Micro-Tronics      | BRC50704               | HHL | 6/20/2013  | 36 mo    |
| BP Filter         | Micro-Tronics      | BRC50703               | HHK | 6/20/2013  | 36 mo    |
| Spectrum Analyzer | Agilent            | E4440A                 | AAW | 2/21/2013  | 24 mo    |

## MEASUREMENT BANDWIDTHS

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 - 0.15           | 1.0             | 0.2                   | 0.2                |
| 0.15 - 30.0           | 10.0            | 9.0                   | 9.0                |
| 30.0 - 1000           | 100.0           | 120.0                 | 120.0              |
| Above 1000            | 1000.0          | N/A                   | 1000.0             |

## TEST DESCRIPTION

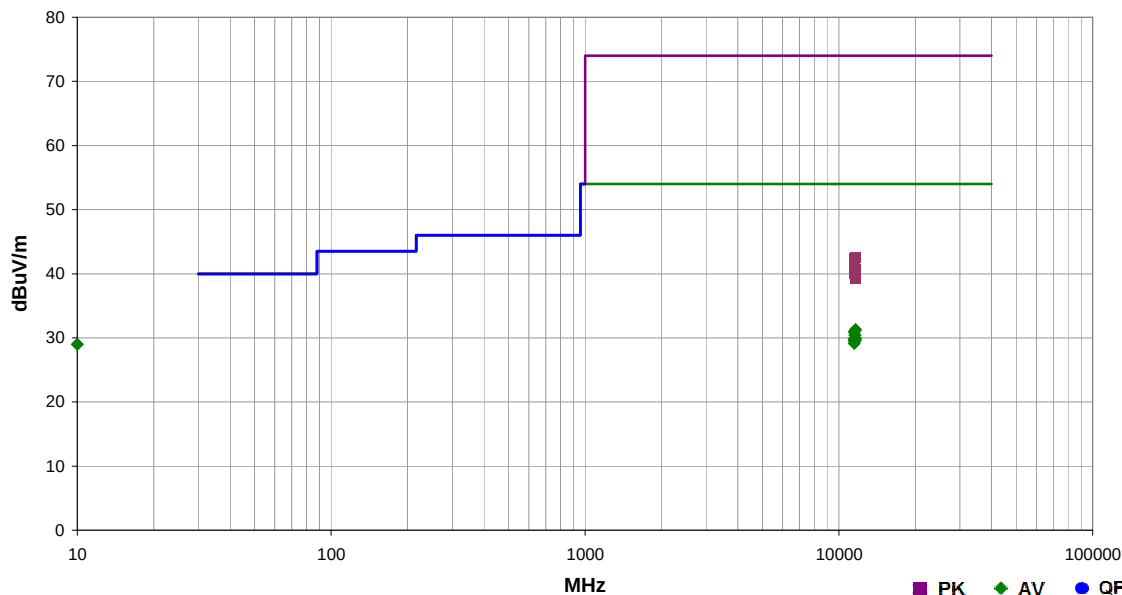
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

The power level used while under test for the 5 GHz band, 20 MHz and 40 MHz bandwidths was set at 12 dBm unless otherwise noted. All average measurements above 1 GHz were performed using a RMS Average employing a 10 Hz VBW was used as per FCC KDB 913591. The EUT was transmitting at a 100% duty cycle for the duration of the test.

|                 |                                                                      |                   |           |                                                                                    |
|-----------------|----------------------------------------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                                                             | Date:             | 07/22/13  |  |
| Project:        | None                                                                 | Temperature:      | 24 °C     |                                                                                    |
| Job Site:       | NC01                                                                 | Humidity:         | 51% RH    |                                                                                    |
| Serial Number:  | 6079632553                                                           | Barometric Pres.: | 1021 mbar |                                                                                    |
| EUT:            |                                                                      | 1601              |           |                                                                                    |
| Configuration:  | 2                                                                    |                   |           |                                                                                    |
| Customer:       | Microsoft Corporation                                                |                   |           |                                                                                    |
| Attendees:      | None                                                                 |                   |           |                                                                                    |
| EUT Power:      | 110VAC/60Hz                                                          |                   |           |                                                                                    |
| Operating Mode: | Transmitting at 100% duty cycle, 802.11a/n                           |                   |           |                                                                                    |
| Deviations:     | None                                                                 |                   |           |                                                                                    |
| Comments:       | See comments below for EUT orientation, data rate, and antenna chain |                   |           |                                                                                    |

|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.407:2013     | ANSI C63.10:2009 |

|       |       |                   |   |                   |      |         |      |
|-------|-------|-------------------|---|-------------------|------|---------|------|
| Run # | 87-90 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|-------|-------------------|---|-------------------|------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Preamp (dB) | Antenna Height (meters) | Transducer (dB) | Cable (dB) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted () | Spec. Limit () | Compared to Spec. (dB) | Comments                          |
|------------|------------------|-------------|-------------------------|-----------------|------------|---------------------------|---------------------------|----------|--------------------------|-------------|----------------|------------------------|-----------------------------------|
| 11649.910  | 34.2             | -2.9        | 1.2                     | 171.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 31.3        | 54.0           | -22.7                  | Ch 165, EUT Flat, Ant A, 6 Mbps   |
| 11489.930  | 34.3             | -3.3        | 1.2                     | 179.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 31.0        | 54.0           | -23.0                  | Ch 149, EUT Flat, Ant A, 6 Mbps   |
| 11570.160  | 33.6             | -3.2        | 1.2                     | 182.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 30.4        | 54.0           | -23.6                  | Ch 157, EUT Flat, Ant A, 6 Mbps   |
| 11649.950  | 32.8             | -2.9        | 1.2                     | 245.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.9        | 54.0           | -24.1                  | Ch 165, EUT Flat, Ant A, 6 Mbps   |
| 11508.360  | 33.2             | -3.3        | 1.2                     | 179.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 29.9        | 54.0           | -24.1                  | Ch 149/153, EUT Flat, Ant A, MCS0 |
| 11588.220  | 32.7             | -3.1        | 1.2                     | 181.0           | 3.0        | 0.0                       | Vert                      | AV       | 0.0                      | 29.6        | 54.0           | -24.4                  | Ch 157/161, EUT Flat, Ant A, MCS0 |
| 11489.100  | 32.9             | -3.3        | 1.2                     | 188.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.6        | 54.0           | -24.4                  | Ch 149, EUT Flat, Ant A, 6 Mbps   |
| 11508.300  | 32.5             | -3.3        | 1.2                     | 181.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.2        | 54.0           | -24.8                  | Ch 149/153, EUT Flat, Ant A, MCS0 |
| 11571.090  | 32.3             | -3.2        | 1.2                     | 281.0           | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.1        | 54.0           | -24.9                  | Ch 157, EUT Flat, Ant A, 6 Mbps   |
| 11587.800  | 32.1             | -3.1        | 1.2                     | 56.0            | 3.0        | 0.0                       | Horz                      | AV       | 0.0                      | 29.0        | 54.0           | -25.0                  | Ch 157/161, EUT Flat, Ant A, MCS0 |
| 11650.110  | 45.4             | -2.9        | 1.2                     | 171.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 42.5        | 74.0           | -31.5                  | Ch 165, EUT Flat, Ant A, 6 Mbps   |
| 11490.190  | 45.7             | -3.3        | 1.2                     | 179.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 42.4        | 74.0           | -31.6                  | Ch 149, EUT Flat, Ant A, 6 Mbps   |
| 11489.240  | 45.6             | -3.3        | 1.2                     | 188.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 42.3        | 74.0           | -31.7                  | Ch 149, EUT Flat, Ant A, 6 Mbps   |
| 11650.260  | 43.6             | -2.9        | 1.2                     | 245.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.7        | 74.0           | -33.3                  | Ch 165, EUT Flat, Ant A, 6 Mbps   |
| 11569.600  | 43.8             | -3.2        | 1.2                     | 182.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 40.6        | 74.0           | -33.4                  | Ch 157, EUT Flat, Ant A, 6 Mbps   |
| 11588.440  | 43.7             | -3.1        | 1.2                     | 181.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 40.6        | 74.0           | -33.4                  | Ch 157/161, EUT Flat, Ant A, MCS0 |
| 11508.580  | 43.7             | -3.3        | 1.2                     | 179.0           | 3.0        | 0.0                       | Vert                      | PK       | 0.0                      | 40.4        | 74.0           | -33.6                  | Ch 149/153, EUT Flat, Ant A, MCS0 |
| 11570.630  | 43.2             | -3.2        | 1.2                     | 281.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.0        | 74.0           | -34.0                  | Ch 157, EUT Flat, Ant A, 6 Mbps   |
| 11511.380  | 43.3             | -3.3        | 1.2                     | 181.0           | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 40.0        | 74.0           | -34.0                  | Ch 149/153, EUT Flat, Ant A, MCS0 |
| 11588.980  | 42.4             | -3.1        | 1.2                     | 56.0            | 3.0        | 0.0                       | Horz                      | PK       | 0.0                      | 39.3        | 74.0           | -34.7                  | Ch 157/161, EUT Flat, Ant A, MCS0 |

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## MODES OF OPERATION

Transmitting 802.11(a), 100% Duty Cycle, Ch 149, 5745 Mhz  
 Transmitting 802.11(a), 100% Duty Cycle, Ch 157, 5785 MHz  
 Transmitting 802.11(a), 100% Duty Cycle, Ch 165, 5825 MHz  
 Transmitting 802.11(b), 100% Duty Cycle, Ch 1, 2412 MHz  
 Transmitting 802.11(b), 100% Duty Cycle, Ch 6, 2437 MHz  
 Transmitting 802.11(b), 100% Duty Cycle, Ch 11, 2462 MHz

## POWER SETTINGS INVESTIGATED

110VAC/60Hz

## CONFIGURATIONS INVESTIGATED

MCSO1665 - 4

## SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

## TEST EQUIPMENT

| Description      | Manufacturer    | Model                      | ID  | Last Cal.  | Interval |
|------------------|-----------------|----------------------------|-----|------------|----------|
| High Pass Filter | TTE             | H97-100K-50-720B           | HHF | 2/1/2012   | 24 mo    |
| LISN             | Solar           | 9252-50-R-24-BNC           | LIM | 1/16/2013  | 12 mo    |
| NC01 Cables      | N/A             | Conducted / NF Probe Cable | NC4 | 12/14/2012 | 12 mo    |
| Receiver         | Rohde & Schwarz | ESCI                       | ARE | 5/30/2013  | 12 mo    |

## MEASUREMENT BANDWIDTHS

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 - 0.15           | 1.0             | 0.2                   | 0.2                |
| 0.15 - 30.0           | 10.0            | 9.0                   | 9.0                |
| 30.0 - 1000           | 100.0           | 120.0                 | 120.0              |
| Above 1000            | 1000.0          | N/A                   | 1000.0             |

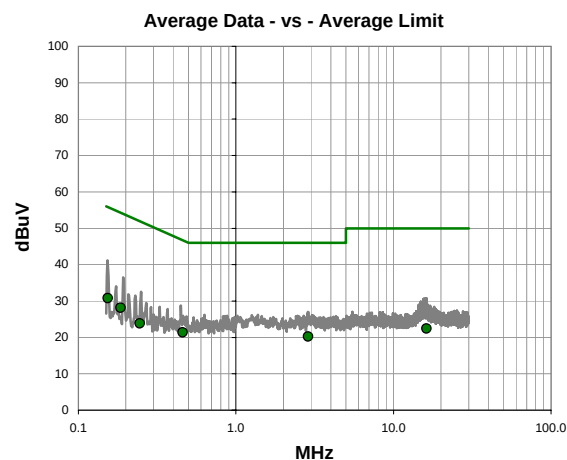
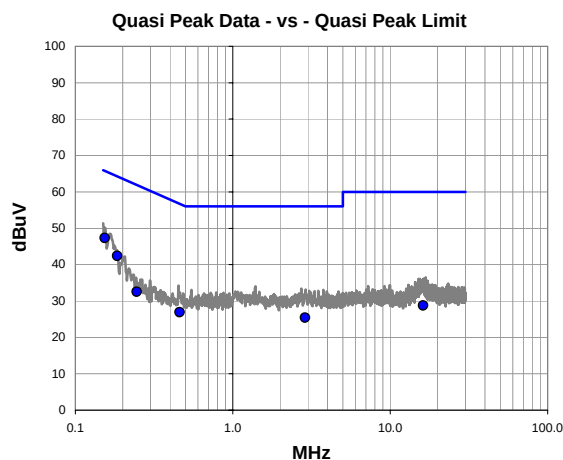
Measurements were made using the bandwidths and detectors specified. No video filter was used.

## TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm. The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at 6 Mbps at with a channel output power of 12 dBm for all 5.8 GHz channels, and 1 Mbps at a channel output power or 15 dBm for all 2.4 GHz channels. The test setup and procedures were in accordance with ANSI C63.10-2009.

## AC Powerline Conducted Emissions

|                     |                                        |                   |           |                                                                                    |    |         |      |
|---------------------|----------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------|----|---------|------|
| Work Order:         | MCSO1665                               | Date:             | 07/25/13  |  |    |         |      |
| Project:            | None                                   | Temperature:      | 24 °C     |                                                                                    |    |         |      |
| Job Site:           | NC05                                   | Humidity:         | 44% RH    |                                                                                    |    |         |      |
| Serial Number:      | 6079632553                             | Barometric Pres.: | 1019 mbar |                                                                                    |    |         |      |
| EUT:                | 1601                                   |                   |           |                                                                                    |    |         |      |
| Configuration:      | 4                                      |                   |           |                                                                                    |    |         |      |
| Customer:           | Microsoft Corporation                  |                   |           |                                                                                    |    |         |      |
| Attendees:          | None                                   |                   |           |                                                                                    |    |         |      |
| EUT Power:          | 110VAC/60Hz                            |                   |           |                                                                                    |    |         |      |
| Operating Mode:     | Transmitting 802.11(a), Ch 149, 6 Mbps |                   |           |                                                                                    |    |         |      |
| Deviations:         | None                                   |                   |           |                                                                                    |    |         |      |
| Comments:           | EUT is operating at 100% duty cycle    |                   |           |                                                                                    |    |         |      |
|                     |                                        |                   |           |                                                                                    |    |         |      |
| Test Specifications |                                        | Test Method       |           |                                                                                    |    |         |      |
| FCC 15.207:2013     |                                        | ANSI C63.10:2009  |           |                                                                                    |    |         |      |
|                     |                                        |                   |           |                                                                                    |    |         |      |
| Run #               | 162                                    | Line:             | High Line | Ext. Attenuation:                                                                  | 20 | Results | Pass |



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.154      | 27.0             | 20.3        | 47.3            | 65.8               | -18.5                  |
| 0.185      | 22.0             | 20.4        | 42.4            | 64.3               | -21.9                  |
| 0.246      | 12.3             | 20.2        | 32.5            | 61.9               | -29.4                  |
| 0.460      | 6.7              | 20.3        | 27.0            | 56.7               | -29.7                  |
| 2.876      | 5.0              | 20.4        | 25.4            | 56.0               | -30.6                  |
| 16.206     | 7.6              | 21.1        | 28.7            | 60.0               | -31.3                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.154      | 10.5             | 20.3        | 30.8            | 55.8               | -25.0                  |
| 0.460      | 1.1              | 20.3        | 21.4            | 46.7               | -25.3                  |
| 2.876      | -0.2             | 20.4        | 20.2            | 46.0               | -25.8                  |
| 0.185      | 7.8              | 20.4        | 28.2            | 54.3               | -26.1                  |
| 16.206     | 1.3              | 21.1        | 22.4            | 50.0               | -27.6                  |
| 0.246      | 3.6              | 20.2        | 23.8            | 51.9               | -28.1                  |

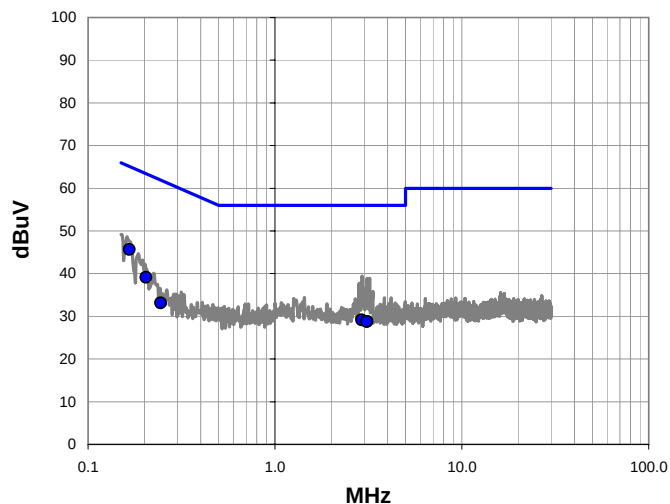
## AC Powerline Conducted Emissions

|                 |                                        |                             |           |                                                                                     |
|-----------------|----------------------------------------|-----------------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                               | Date:                       | 07/25/13  |  |
| Project:        | None                                   | Temperature:                | 24 °C     |                                                                                     |
| Job Site:       | NC05                                   | Humidity:                   | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                             | Barometric Pres.:           | 1019 mbar |                                                                                     |
|                 |                                        | Tested by: Richard Mellroth |           |                                                                                     |
| EUT:            | 1601                                   |                             |           |                                                                                     |
| Configuration:  | 4                                      |                             |           |                                                                                     |
| Customer:       | Microsoft Corporation                  |                             |           |                                                                                     |
| Attendees:      | None                                   |                             |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                            |                             |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(a), Ch 149, 6 Mbps |                             |           |                                                                                     |
| Deviations:     | None                                   |                             |           |                                                                                     |
| Comments:       | EUT is operating at 100% duty cycle    |                             |           |                                                                                     |

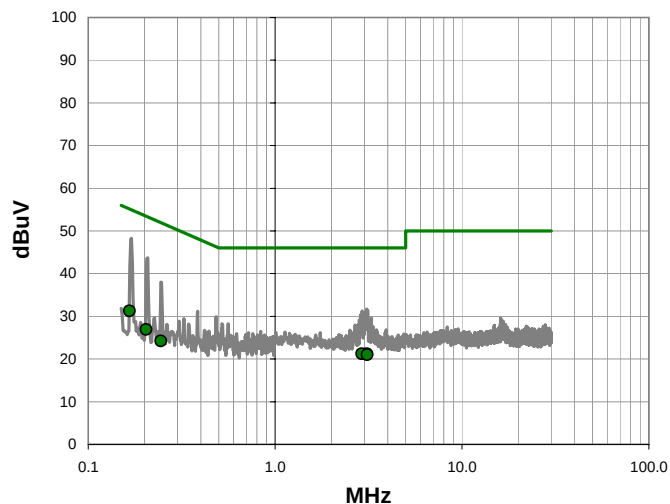
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |         |                   |    |         |      |
|-------|-----|-------|---------|-------------------|----|---------|------|
| Run # | 163 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|---------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.166      | 25.3             | 20.3        | 45.6            | 65.2               | -19.5                  |
| 0.204      | 18.8             | 20.3        | 39.1            | 63.4               | -24.3                  |
| 2.916      | 8.8              | 20.4        | 29.2            | 56.0               | -26.8                  |
| 3.116      | 8.4              | 20.4        | 28.8            | 56.0               | -27.2                  |
| 3.096      | 8.4              | 20.4        | 28.8            | 56.0               | -27.2                  |
| 0.245      | 12.9             | 20.2        | 33.1            | 61.9               | -28.8                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.166      | 10.9             | 20.3        | 31.2            | 55.2               | -23.9                  |
| 3.096      | 0.8              | 20.4        | 21.2            | 46.0               | -24.8                  |
| 2.916      | 0.8              | 20.4        | 21.2            | 46.0               | -24.8                  |
| 3.116      | 0.6              | 20.4        | 21.0            | 46.0               | -25.0                  |
| 0.204      | 6.6              | 20.3        | 26.9            | 53.4               | -26.5                  |
| 0.245      | 4.0              | 20.2        | 24.2            | 51.9               | -27.7                  |

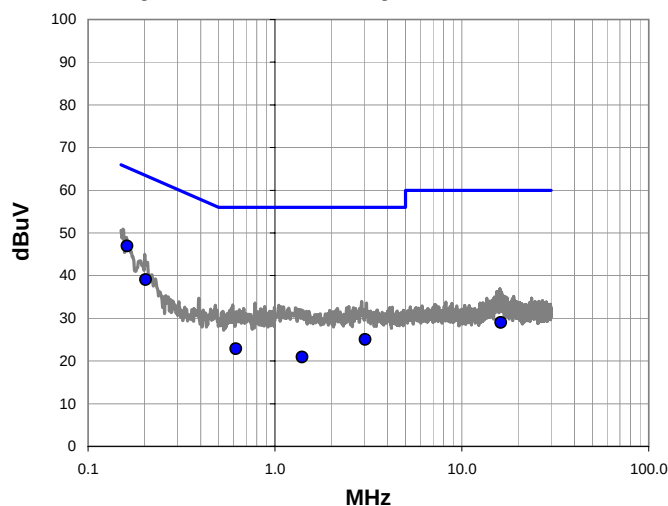
## AC Powerline Conducted Emissions

|                 |            |                                        |           |                                                                                     |
|-----------------|------------|----------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665   | Date:                                  | 07/25/13  |  |
| Project:        | None       | Temperature:                           | 24 °C     |                                                                                     |
| Job Site:       | NC05       | Humidity:                              | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553 | Barometric Pres.:                      | 1019 mbar |                                                                                     |
| EUT:            |            | 1601                                   |           |                                                                                     |
| Configuration:  |            | 4                                      |           |                                                                                     |
| Customer:       |            | Microsoft Corporation                  |           |                                                                                     |
| Attendees:      |            | None                                   |           |                                                                                     |
| EUT Power:      |            | 110VAC/60Hz                            |           |                                                                                     |
| Operating Mode: |            | Transmitting 802.11(a), Ch 157, 6 Mbps |           |                                                                                     |
| Deviations:     |            | None                                   |           |                                                                                     |
| Comments:       |            | EUT is operating at 100% duty cycle    |           |                                                                                     |

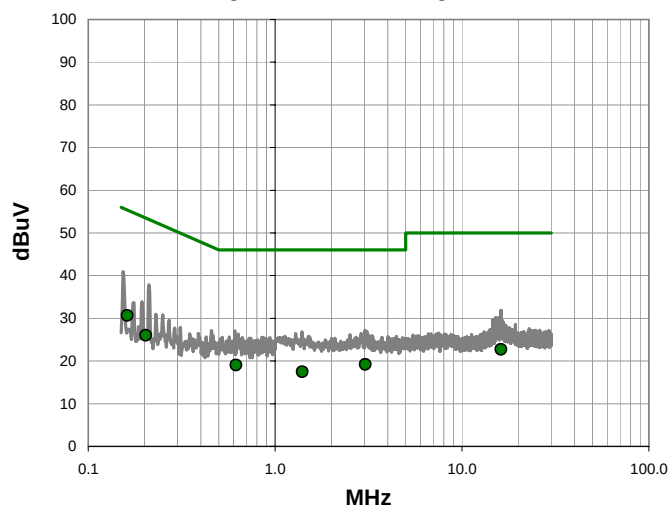
|                            |                    |
|----------------------------|--------------------|
| <b>Test Specifications</b> | <b>Test Method</b> |
| FCC 15.207:2013            | ANSI C63.10:2009   |

|              |     |              |           |                          |    |                |      |
|--------------|-----|--------------|-----------|--------------------------|----|----------------|------|
| <b>Run #</b> | 164 | <b>Line:</b> | High Line | <b>Ext. Attenuation:</b> | 20 | <b>Results</b> | Pass |
|--------------|-----|--------------|-----------|--------------------------|----|----------------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.162      | 26.6             | 20.3        | 46.9            | 65.4               | -18.4                  |
| 0.203      | 18.7             | 20.3        | 39.0            | 63.5               | -24.4                  |
| 16.156     | 7.9              | 21.1        | 29.0            | 60.0               | -31.0                  |
| 3.044      | 4.6              | 20.4        | 25.0            | 56.0               | -31.0                  |
| 0.619      | 2.6              | 20.2        | 22.8            | 56.0               | -33.2                  |
| 1.400      | 0.6              | 20.3        | 20.9            | 56.0               | -35.1                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.162      | 10.3             | 20.3        | 30.6            | 55.4               | -24.7                  |
| 3.044      | -1.2             | 20.4        | 19.2            | 46.0               | -26.8                  |
| 0.619      | -1.2             | 20.2        | 19.0            | 46.0               | -27.0                  |
| 16.156     | 1.6              | 21.1        | 22.7            | 50.0               | -27.3                  |
| 0.203      | 5.7              | 20.3        | 26.0            | 53.5               | -27.4                  |
| 1.400      | -2.8             | 20.3        | 17.5            | 46.0               | -28.5                  |

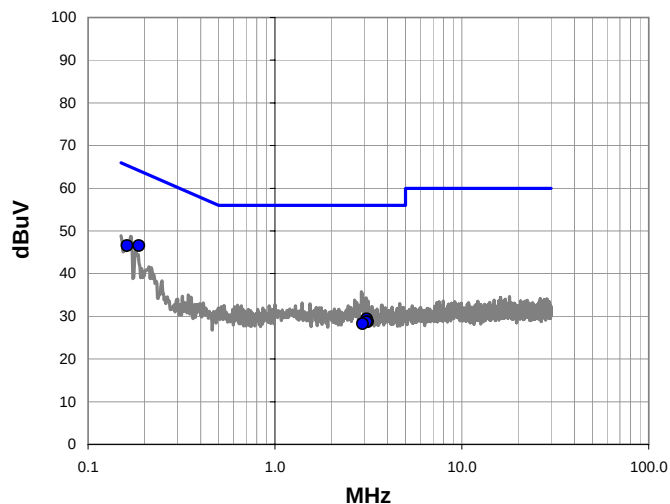
## AC Powerline Conducted Emissions

|                 |                                        |                   |           |                                                                                     |
|-----------------|----------------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                               | Date:             | 07/25/13  |  |
| Project:        | None                                   | Temperature:      | 24 °C     |                                                                                     |
| Job Site:       | NC05                                   | Humidity:         | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                             | Barometric Pres.: | 1019 mbar |                                                                                     |
|                 |                                        | Tested by:        |           | Richard Mellroth                                                                    |
| EUT:            | 1601                                   |                   |           |                                                                                     |
| Configuration:  | 4                                      |                   |           |                                                                                     |
| Customer:       | Microsoft Corporation                  |                   |           |                                                                                     |
| Attendees:      | None                                   |                   |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                            |                   |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(a), Ch 157, 6 Mbps |                   |           |                                                                                     |
| Deviations:     | None                                   |                   |           |                                                                                     |
| Comments:       | EUT is operating at 100% duty cycle    |                   |           |                                                                                     |

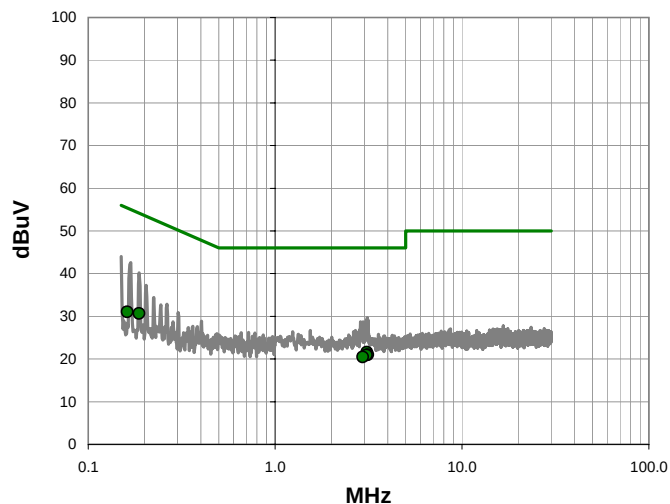
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |         |                   |    |         |      |
|-------|-----|-------|---------|-------------------|----|---------|------|
| Run # | 165 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|---------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.187      | 26.2             | 20.4        | 46.6            | 64.2               | -17.6                  |
| 0.162      | 26.2             | 20.3        | 46.5            | 65.4               | -18.8                  |
| 3.104      | 9.0              | 20.4        | 29.4            | 56.0               | -26.6                  |
| 3.132      | 8.3              | 20.4        | 28.7            | 56.0               | -27.3                  |
| 3.084      | 8.3              | 20.4        | 28.7            | 56.0               | -27.3                  |
| 2.940      | 7.9              | 20.4        | 28.3            | 56.0               | -27.7                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.187      | 10.3             | 20.4        | 30.7            | 54.2               | -23.5                  |
| 0.162      | 10.7             | 20.3        | 31.0            | 55.4               | -24.3                  |
| 3.104      | 1.2              | 20.4        | 21.6            | 46.0               | -24.4                  |
| 3.132      | 0.6              | 20.4        | 21.0            | 46.0               | -25.0                  |
| 3.084      | 0.5              | 20.4        | 20.9            | 46.0               | -25.1                  |
| 2.940      | 0.1              | 20.4        | 20.5            | 46.0               | -25.5                  |



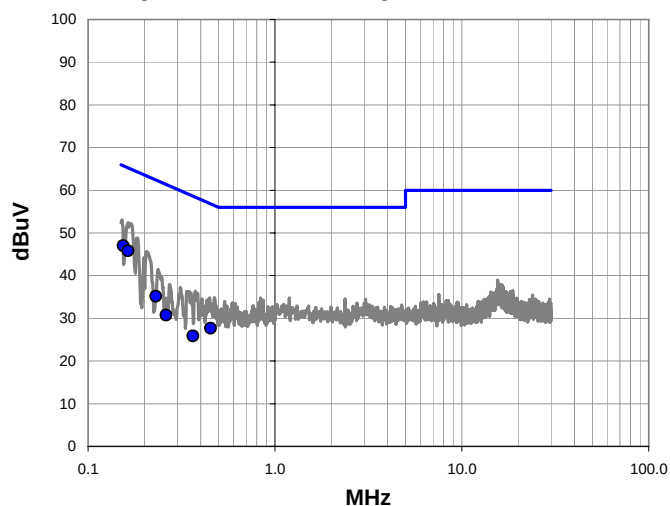
## AC Powerline Conducted Emissions

|                 |                                        |                   |           |                                                                                     |
|-----------------|----------------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                               | Date:             | 07/25/13  |  |
| Project:        | None                                   | Temperature:      | 24 °C     |                                                                                     |
| Job Site:       | NC05                                   | Humidity:         | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                             | Barometric Pres.: | 1019 mbar |                                                                                     |
|                 |                                        | Tested by:        |           | Richard Mellroth                                                                    |
| EUT:            | 1601                                   |                   |           |                                                                                     |
| Configuration:  | 4                                      |                   |           |                                                                                     |
| Customer:       | Microsoft Corporation                  |                   |           |                                                                                     |
| Attendees:      | None                                   |                   |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                            |                   |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(a), Ch 165, 6 Mbps |                   |           |                                                                                     |
| Deviations:     | None                                   |                   |           |                                                                                     |
| Comments:       | EUT is operating at 100% duty cycle    |                   |           |                                                                                     |

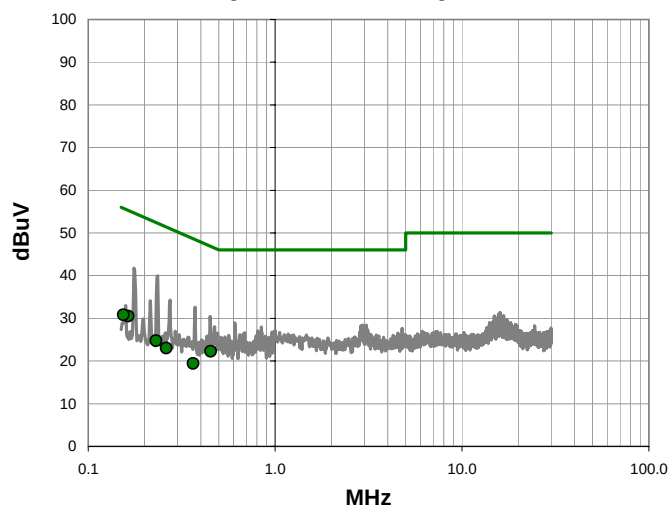
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |           |                   |    |         |      |
|-------|-----|-------|-----------|-------------------|----|---------|------|
| Run # | 166 | Line: | High Line | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|-----------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.154      | 26.7             | 20.3        | 47.0            | 65.8               | -18.8                  |
| 0.164      | 25.5             | 20.3        | 45.8            | 65.3               | -19.4                  |
| 0.231      | 14.9             | 20.3        | 35.2            | 62.4               | -27.2                  |
| 0.453      | 7.4              | 20.3        | 27.7            | 56.8               | -29.2                  |
| 0.262      | 10.5             | 20.2        | 30.7            | 61.4               | -30.7                  |
| 0.365      | 5.6              | 20.3        | 25.9            | 58.6               | -32.7                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.453      | 2.0              | 20.3        | 22.3            | 46.8               | -24.6                  |
| 0.164      | 10.2             | 20.3        | 30.5            | 55.3               | -24.7                  |
| 0.154      | 10.5             | 20.3        | 30.8            | 55.8               | -25.0                  |
| 0.231      | 4.5              | 20.3        | 24.8            | 52.4               | -27.6                  |
| 0.262      | 2.8              | 20.2        | 23.0            | 51.4               | -28.4                  |
| 0.365      | -0.9             | 20.3        | 19.4            | 48.6               | -29.2                  |

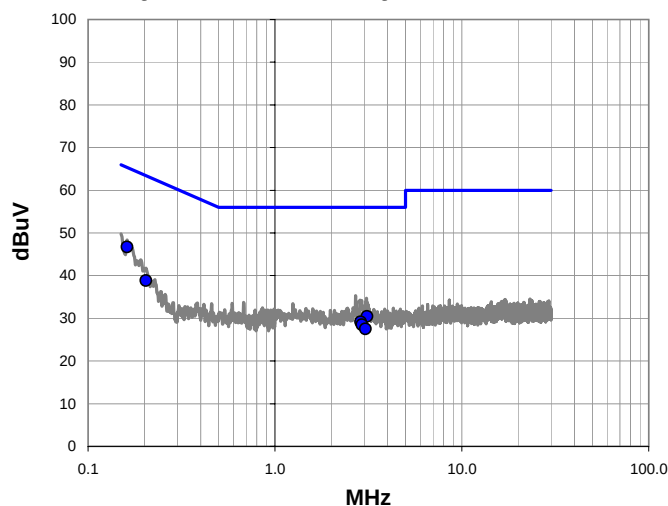
## AC Powerline Conducted Emissions

|                 |                                        |                   |           |                                                                                     |
|-----------------|----------------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                               | Date:             | 07/25/13  |  |
| Project:        | None                                   | Temperature:      | 24 °C     |                                                                                     |
| Job Site:       | NC05                                   | Humidity:         | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                             | Barometric Pres.: | 1019 mbar |                                                                                     |
|                 |                                        | Tested by:        |           | Richard Mellroth                                                                    |
| EUT:            | 1601                                   |                   |           |                                                                                     |
| Configuration:  | 4                                      |                   |           |                                                                                     |
| Customer:       | Microsoft Corporation                  |                   |           |                                                                                     |
| Attendees:      | None                                   |                   |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                            |                   |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(a), Ch 165, 6 Mbps |                   |           |                                                                                     |
| Deviations:     | None                                   |                   |           |                                                                                     |
| Comments:       | EUT is operating at 100% duty cycle    |                   |           |                                                                                     |

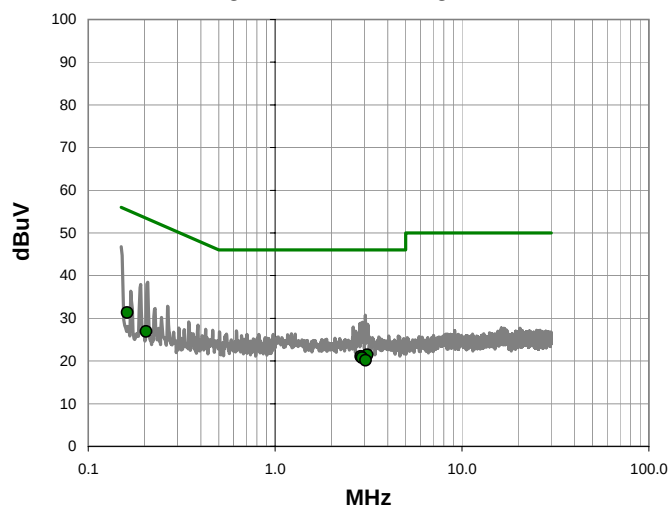
| Test Specifications | Test Method      |
|---------------------|------------------|
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |         |                   |    |         |      |
|-------|-----|-------|---------|-------------------|----|---------|------|
| Run # | 167 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|---------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.162      | 26.4             | 20.3        | 46.7            | 65.4               | -18.6                  |
| 0.204      | 18.5             | 20.3        | 38.8            | 63.4               | -24.6                  |
| 3.112      | 10.0             | 20.4        | 30.4            | 56.0               | -25.6                  |
| 2.872      | 8.8              | 20.4        | 29.2            | 56.0               | -26.8                  |
| 2.924      | 8.1              | 20.4        | 28.5            | 56.0               | -27.5                  |
| 3.052      | 7.1              | 20.4        | 27.5            | 56.0               | -28.5                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.162      | 11.0             | 20.3        | 31.3            | 55.4               | -24.0                  |
| 3.112      | 1.0              | 20.4        | 21.4            | 46.0               | -24.6                  |
| 2.872      | 0.7              | 20.4        | 21.1            | 46.0               | -24.9                  |
| 2.924      | 0.4              | 20.4        | 20.8            | 46.0               | -25.2                  |
| 3.052      | -0.2             | 20.4        | 20.2            | 46.0               | -25.8                  |
| 0.204      | 6.6              | 20.3        | 26.9            | 53.4               | -26.5                  |

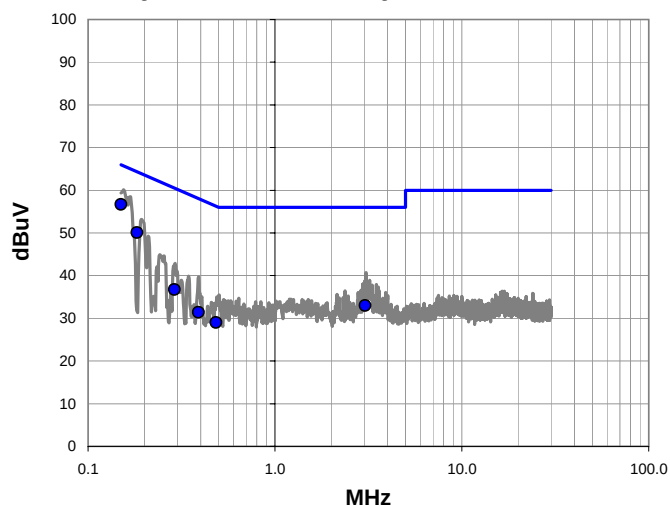
## AC Powerline Conducted Emissions

|                 |                                      |                             |           |                                                                                     |
|-----------------|--------------------------------------|-----------------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                             | Date:                       | 07/25/13  |  |
| Project:        | None                                 | Temperature:                | 24 °C     |                                                                                     |
| Job Site:       | NC05                                 | Humidity:                   | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                           | Barometric Pres.:           | 1019 mbar |                                                                                     |
|                 |                                      | Tested by: Richard Mellroth |           |                                                                                     |
| EUT:            | 1601                                 |                             |           |                                                                                     |
| Configuration:  | 4                                    |                             |           |                                                                                     |
| Customer:       | Microsoft Corporation                |                             |           |                                                                                     |
| Attendees:      | None                                 |                             |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                          |                             |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(b), Ch 1, 1 Mbps |                             |           |                                                                                     |
| Deviations:     | None                                 |                             |           |                                                                                     |
| Comments:       | EUT operating at 100% duty cycle     |                             |           |                                                                                     |

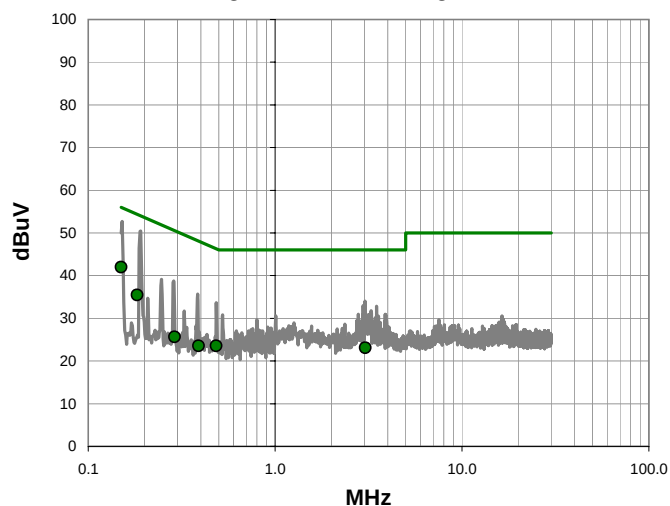
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |           |                   |    |         |      |
|-------|-----|-------|-----------|-------------------|----|---------|------|
| Run # | 170 | Line: | High Line | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|-----------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 36.4             | 20.3        | 56.7            | 66.0               | -9.3                   |
| 0.183      | 29.7             | 20.4        | 50.1            | 64.3               | -14.3                  |
| 3.044      | 12.6             | 20.4        | 33.0            | 56.0               | -23.0                  |
| 0.290      | 16.5             | 20.3        | 36.8            | 60.5               | -23.8                  |
| 0.389      | 11.1             | 20.3        | 31.4            | 58.1               | -26.7                  |
| 0.485      | 8.8              | 20.2        | 29.0            | 56.3               | -27.2                  |

Average Data - vs - Average Limit

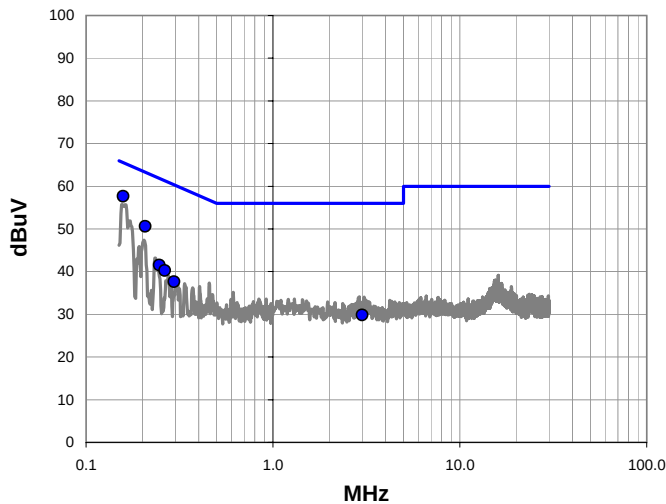
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 21.7             | 20.3        | 42.0            | 56.0               | -14.0                  |
| 0.183      | 15.1             | 20.4        | 35.5            | 54.3               | -18.9                  |
| 0.485      | 3.3              | 20.2        | 23.5            | 46.3               | -22.7                  |
| 3.044      | 2.7              | 20.4        | 23.1            | 46.0               | -22.9                  |
| 0.389      | 3.3              | 20.3        | 23.6            | 48.1               | -24.5                  |
| 0.290      | 5.4              | 20.3        | 25.7            | 50.5               | -24.9                  |

## AC Powerline Conducted Emissions

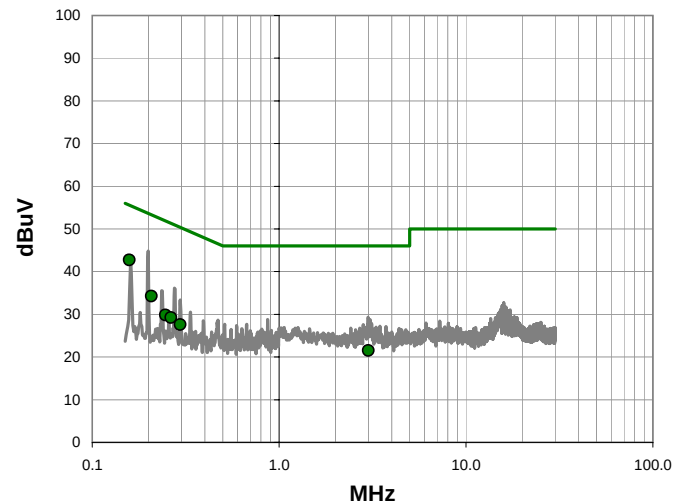
|                 |                                      |                   |           |                                                                                    |                  |
|-----------------|--------------------------------------|-------------------|-----------|------------------------------------------------------------------------------------|------------------|
| Work Order:     | MCSO1665                             | Date:             | 07/25/13  |  |                  |
| Project:        | None                                 | Temperature:      | 24 °C     |                                                                                    |                  |
| Job Site:       | NC05                                 | Humidity:         | 44% RH    |                                                                                    |                  |
| Serial Number:  | 6079632553                           | Barometric Pres.: | 1019 mbar | Tested by:                                                                         | Richard Mellroth |
| EUT:            | 1601                                 |                   |           |                                                                                    |                  |
| Configuration:  | 4                                    |                   |           |                                                                                    |                  |
| Customer:       | Microsoft Corporation                |                   |           |                                                                                    |                  |
| Attendees:      | None                                 |                   |           |                                                                                    |                  |
| EUT Power:      | 110VAC/60Hz                          |                   |           |                                                                                    |                  |
| Operating Mode: | Transmitting 802.11(b), Ch 1, 1 Mbps |                   |           |                                                                                    |                  |
| Deviations:     | None                                 |                   |           |                                                                                    |                  |
| Comments:       | EUT operating at 100% duty cycle     |                   |           |                                                                                    |                  |

| Test Specifications      |     | Test Method      |         |
|--------------------------|-----|------------------|---------|
| FCC 15.207:2013          |     | ANSI C63.10:2009 |         |
| <b>Run #</b>             | 171 | <b>Line:</b>     | Neutral |
| <b>Ext. Attenuation:</b> | 20  | <b>Results</b>   | Pass    |

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.158      | 37.3             | 20.3        | 57.6            | 65.6               | -8.0                   |
| 0.207      | 30.3             | 20.3        | 50.6            | 63.3               | -12.7                  |
| 0.247      | 21.3             | 20.2        | 41.5            | 61.9               | -20.3                  |
| 0.264      | 20.0             | 20.2        | 40.2            | 61.3               | -21.1                  |
| 0.296      | 17.4             | 20.3        | 37.7            | 60.4               | -22.7                  |
| 3.000      | 9.4              | 20.4        | 29.8            | 56.0               | -26.2                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.158      | 22.4             | 20.3        | 42.7            | 55.6               | -12.9                  |
| 0.207      | 13.9             | 20.3        | 34.2            | 53.3               | -19.1                  |
| 0.247      | 9.6              | 20.2        | 29.8            | 51.9               | -22.0                  |
| 0.264      | 9.0              | 20.2        | 29.2            | 51.3               | -22.1                  |
| 0.296      | 7.3              | 20.3        | 27.6            | 50.4               | -22.8                  |
| 3.000      | 1.1              | 20.4        | 21.5            | 46.0               | -24.5                  |

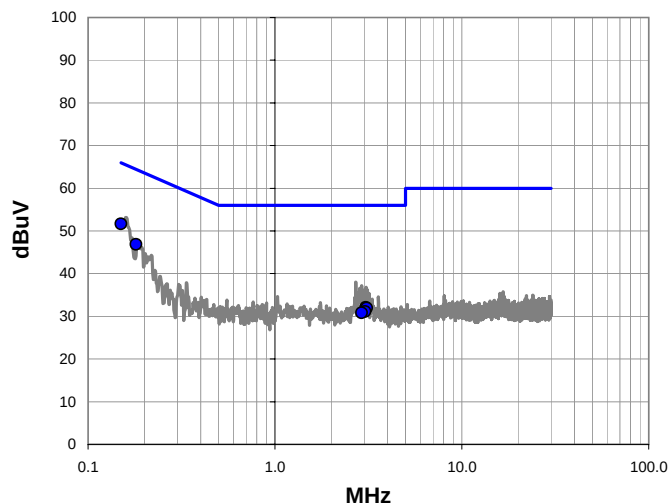
## AC Powerline Conducted Emissions

|                 |                                      |                   |           |                                                                                     |
|-----------------|--------------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                             | Date:             | 07/25/13  |  |
| Project:        | None                                 | Temperature:      | 24 °C     |                                                                                     |
| Job Site:       | NC05                                 | Humidity:         | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                           | Barometric Pres.: | 1019 mbar |                                                                                     |
| EUT:            |                                      | 1601              |           |                                                                                     |
| Configuration:  | 4                                    |                   |           |                                                                                     |
| Customer:       | Microsoft Corporation                |                   |           |                                                                                     |
| Attendees:      | None                                 |                   |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                          |                   |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(b), Ch 6, 1 Mbps |                   |           |                                                                                     |
| Deviations:     | None                                 |                   |           |                                                                                     |
| Comments:       | EUT operating at 100% duty cycle     |                   |           |                                                                                     |

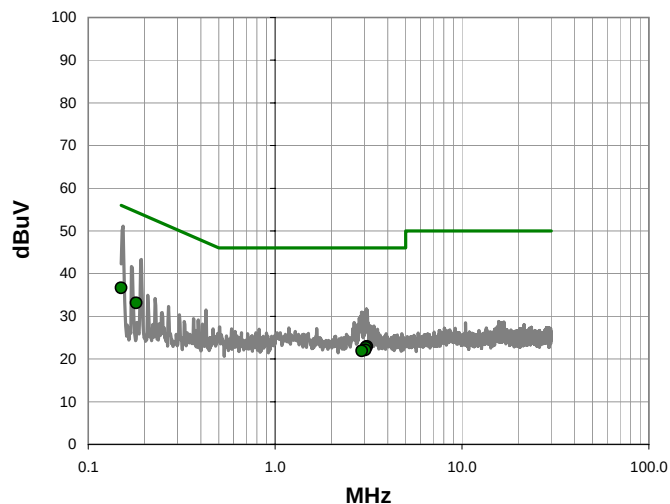
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |           |                   |    |         |      |
|-------|-----|-------|-----------|-------------------|----|---------|------|
| Run # | 172 | Line: | High Line | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|-----------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 31.4             | 20.3        | 51.7            | 66.0               | -14.3                  |
| 0.181      | 26.5             | 20.4        | 46.9            | 64.4               | -17.6                  |
| 3.068      | 11.7             | 20.4        | 32.1            | 56.0               | -23.9                  |
| 3.100      | 11.5             | 20.4        | 31.9            | 56.0               | -24.1                  |
| 3.040      | 10.7             | 20.4        | 31.1            | 56.0               | -24.9                  |
| 2.916      | 10.4             | 20.4        | 30.8            | 56.0               | -25.2                  |

Average Data - vs - Average Limit

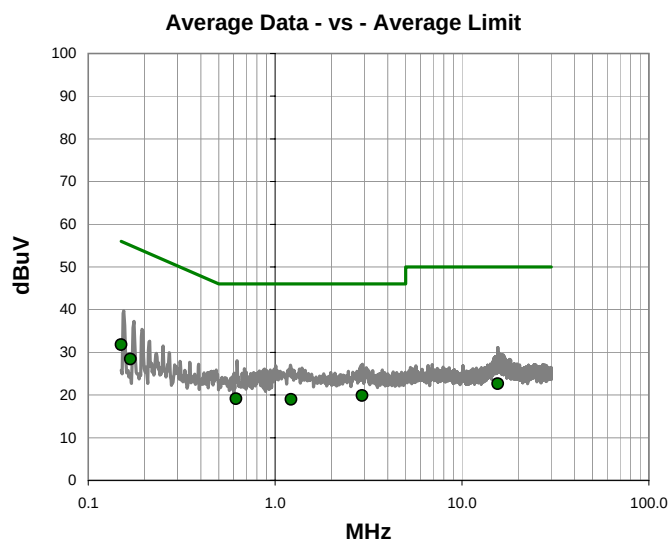
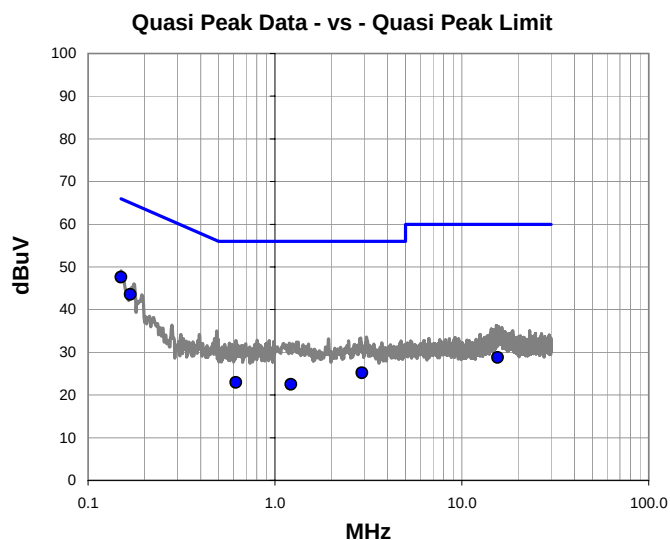
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 16.4             | 20.3        | 36.7            | 56.0               | -19.3                  |
| 0.181      | 12.8             | 20.4        | 33.2            | 54.4               | -21.3                  |
| 3.100      | 2.5              | 20.4        | 22.9            | 46.0               | -23.1                  |
| 3.068      | 2.3              | 20.4        | 22.7            | 46.0               | -23.3                  |
| 3.040      | 1.7              | 20.4        | 22.1            | 46.0               | -23.9                  |
| 2.916      | 1.5              | 20.4        | 21.9            | 46.0               | -24.1                  |

## AC Powerline Conducted Emissions

|                 |                                      |                             |           |                                                                                     |
|-----------------|--------------------------------------|-----------------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                             | Date:                       | 07/25/13  |  |
| Project:        | None                                 | Temperature:                | 24 °C     |                                                                                     |
| Job Site:       | NC05                                 | Humidity:                   | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                           | Barometric Pres.:           | 1019 mbar |                                                                                     |
|                 |                                      | Tested by: Richard Mellroth |           |                                                                                     |
| EUT:            | 1601                                 |                             |           |                                                                                     |
| Configuration:  | 4                                    |                             |           |                                                                                     |
| Customer:       | Microsoft Corporation                |                             |           |                                                                                     |
| Attendees:      | None                                 |                             |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                          |                             |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(b), Ch 6, 1 Mbps |                             |           |                                                                                     |
| Deviations:     | None                                 |                             |           |                                                                                     |
| Comments:       | EUT operating at 100% duty cycle     |                             |           |                                                                                     |

|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |         |                   |    |         |      |
|-------|-----|-------|---------|-------------------|----|---------|------|
| Run # | 173 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|---------|-------------------|----|---------|------|



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 27.3             | 20.3        | 47.6            | 66.0               | -18.4                  |
| 0.168      | 23.2             | 20.3        | 43.5            | 65.1               | -21.5                  |
| 2.924      | 4.8              | 20.4        | 25.2            | 56.0               | -30.8                  |
| 15.552     | 7.7              | 21.1        | 28.8            | 60.0               | -31.2                  |
| 0.618      | 2.7              | 20.2        | 22.9            | 56.0               | -33.1                  |
| 1.216      | 2.2              | 20.3        | 22.5            | 56.0               | -33.5                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 11.5             | 20.3        | 31.8            | 56.0               | -24.2                  |
| 2.924      | -0.5             | 20.4        | 19.9            | 46.0               | -26.1                  |
| 0.168      | 8.1              | 20.3        | 28.4            | 55.1               | -26.6                  |
| 0.618      | -1.1             | 20.2        | 19.1            | 46.0               | -26.9                  |
| 1.216      | -1.3             | 20.3        | 19.0            | 46.0               | -27.0                  |
| 15.552     | 1.6              | 21.1        | 22.7            | 50.0               | -27.3                  |

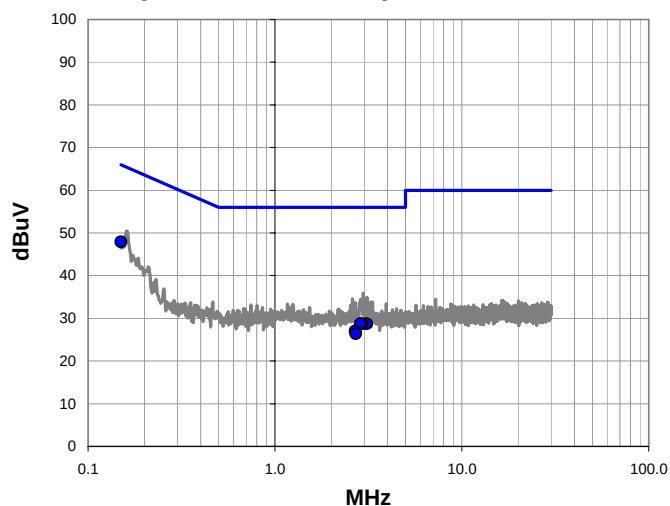
## AC Powerline Conducted Emissions

|                 |            |                                       |           |                                                                                     |
|-----------------|------------|---------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665   | Date:                                 | 07/25/13  |  |
| Project:        | None       | Temperature:                          | 24 °C     |                                                                                     |
| Job Site:       | NC05       | Humidity:                             | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553 | Barometric Pres.:                     | 1019 mbar |                                                                                     |
| EUT:            |            | 1601                                  |           |                                                                                     |
| Configuration:  |            | 4                                     |           |                                                                                     |
| Customer:       |            | Microsoft Corporation                 |           |                                                                                     |
| Attendees:      |            | None                                  |           |                                                                                     |
| EUT Power:      |            | 110VAC/60Hz                           |           |                                                                                     |
| Operating Mode: |            | Transmitting 802.11(b), Ch 11, 1 Mbps |           |                                                                                     |
| Deviations:     |            | None                                  |           |                                                                                     |
| Comments:       |            | EUT operating at 100% duty cycle      |           |                                                                                     |

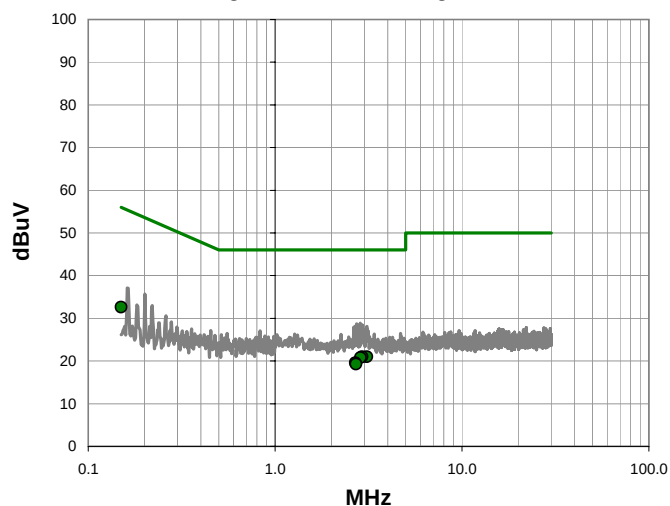
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |           |                   |    |         |      |
|-------|-----|-------|-----------|-------------------|----|---------|------|
| Run # | 174 | Line: | High Line | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|-----------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 27.6             | 20.3        | 47.9            | 66.0               | -18.1                  |
| 3.096      | 8.3              | 20.4        | 28.7            | 56.0               | -27.3                  |
| 2.924      | 8.3              | 20.4        | 28.7            | 56.0               | -27.3                  |
| 2.868      | 8.3              | 20.4        | 28.7            | 56.0               | -27.3                  |
| 2.688      | 6.6              | 20.4        | 27.0            | 56.0               | -29.0                  |
| 2.716      | 6.0              | 20.4        | 26.4            | 56.0               | -29.6                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 12.3             | 20.3        | 32.6            | 56.0               | -23.4                  |
| 3.096      | 0.6              | 20.4        | 21.0            | 46.0               | -25.0                  |
| 2.924      | 0.6              | 20.4        | 21.0            | 46.0               | -25.0                  |
| 2.868      | 0.4              | 20.4        | 20.8            | 46.0               | -25.2                  |
| 2.688      | -0.8             | 20.4        | 19.6            | 46.0               | -26.4                  |
| 2.716      | -1.1             | 20.4        | 19.3            | 46.0               | -26.7                  |

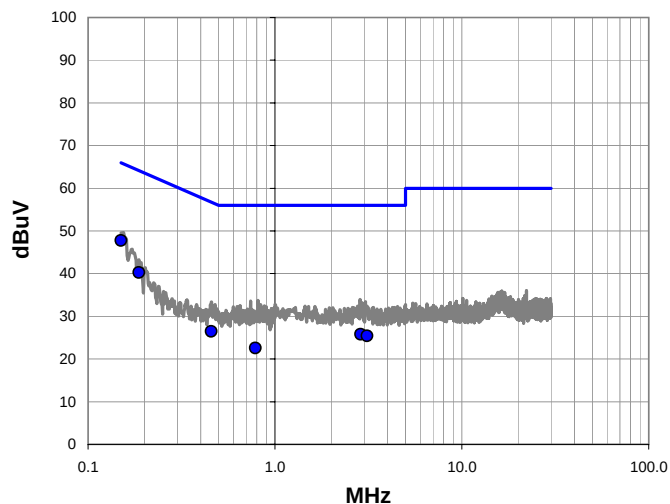
## AC Powerline Conducted Emissions

|                 |                                       |                   |           |                                                                                     |
|-----------------|---------------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | MCSO1665                              | Date:             | 07/25/13  |  |
| Project:        | None                                  | Temperature:      | 24 °C     |                                                                                     |
| Job Site:       | NC05                                  | Humidity:         | 44% RH    |                                                                                     |
| Serial Number:  | 6079632553                            | Barometric Pres.: | 1019 mbar |                                                                                     |
| EUT:            |                                       | 1601              |           |                                                                                     |
| Configuration:  | 4                                     |                   |           |                                                                                     |
| Customer:       | Microsoft Corporation                 |                   |           |                                                                                     |
| Attendees:      | None                                  |                   |           |                                                                                     |
| EUT Power:      | 110VAC/60Hz                           |                   |           |                                                                                     |
| Operating Mode: | Transmitting 802.11(b), Ch 11, 1 Mbps |                   |           |                                                                                     |
| Deviations:     | None                                  |                   |           |                                                                                     |
| Comments:       | EUT operating at 100% duty cycle      |                   |           |                                                                                     |

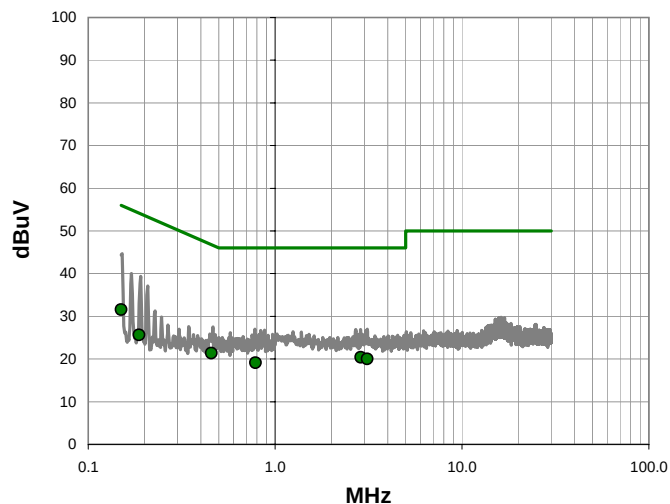
|                     |                  |
|---------------------|------------------|
| Test Specifications | Test Method      |
| FCC 15.207:2013     | ANSI C63.10:2009 |

|       |     |       |         |                   |    |         |      |
|-------|-----|-------|---------|-------------------|----|---------|------|
| Run # | 175 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |
|-------|-----|-------|---------|-------------------|----|---------|------|

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 27.5             | 20.3        | 47.8            | 66.0               | -18.2                  |
| 0.187      | 19.9             | 20.4        | 40.3            | 64.2               | -23.9                  |
| 2.876      | 5.4              | 20.4        | 25.8            | 56.0               | -30.2                  |
| 0.457      | 6.2              | 20.3        | 26.5            | 56.7               | -30.3                  |
| 3.108      | 5.0              | 20.4        | 25.4            | 56.0               | -30.6                  |
| 0.787      | 2.3              | 20.3        | 22.6            | 56.0               | -33.4                  |

Average Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150      | 11.3             | 20.3        | 31.6            | 56.0               | -24.4                  |
| 0.457      | 1.1              | 20.3        | 21.4            | 46.7               | -25.4                  |
| 2.876      | 0.0              | 20.4        | 20.4            | 46.0               | -25.6                  |
| 3.108      | -0.4             | 20.4        | 20.0            | 46.0               | -26.0                  |
| 0.787      | -1.1             | 20.3        | 19.2            | 46.0               | -26.8                  |
| 0.187      | 5.3              | 20.4        | 25.7            | 54.2               | -28.5                  |