

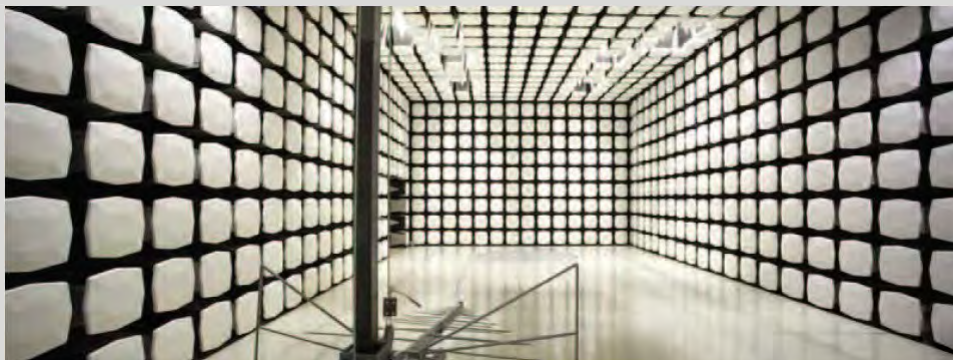


## **KMW Communications**

**AWS RRH**

**FCC 27L:2014**

**Report #: KMWC0048 Rev. 1**



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – [www.nwemc.com](http://www.nwemc.com)

California – Minnesota – Oregon – New York – Washington

**Last Date of Test: January 14, 2014**  
**KMW Communications**  
**Model: AWS RRH**

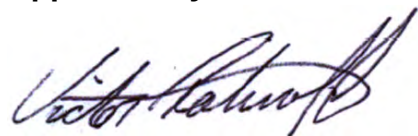
## Emissions

| Test Description                            | Specification             | Test Method             | Pass/Fail |
|---------------------------------------------|---------------------------|-------------------------|-----------|
| Conducted Output Power                      | FCC 27L:2014 (FCC 2.1046) | ANSI/TIA/EIA-603-C-2004 | Pass      |
| Occupied Bandwidth                          | FCC 27L:2014 (FCC 2.1049) | ANSI/TIA/EIA-603-C-2004 | Pass      |
| Emissions Mask                              | FCC 27L:2014 (FCC 2.1049) | ANSI/TIA/EIA-603-C-2004 | Pass      |
| Spurious Emissions at the Antenna Terminals | FCC 27L:2014 (FCC 2.1051) | ANSI/TIA/EIA-603-C-2004 | Pass      |
| Field Strength of Spurious Emissions        | FCC 27L:2014 (FCC 2.1053) | ANSI/TIA/EIA-603-C-2004 | Pass      |
| Frequency Stability                         | FCC 27L:2014 (FCC 2.1055) | ANSI/TIA/EIA-603-C-2004 | Pass      |

## Deviations From Test Standards

None

**Approved By:**



Victor Ratinoff, Operations Manager



NVLAP Lab Code: 200676-0

*This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.*

*Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.*

| Revision Number | Description                                                  | Date      | Page Number |
|-----------------|--------------------------------------------------------------|-----------|-------------|
| 01              | Configuration updated to change DC power cable to unshielded | 3-11-2014 | 8           |

## Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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## United States

**FCC** - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

**A2LA** - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

**NVLAP** - Each laboratory is accredited by NVLAP to ISO 17025

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## Canada

**IC** - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

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## European Union

**European Commission** – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

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## Australia/New Zealand

**ACMA** - Recognized by ACMA as a CAB for the acceptance of test data.

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## Korea

**KCC / RRA** - Recognized by KCC's RRA as a CAB for the acceptance of test data.

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## Japan

**VCCI** - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

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## Taiwan

**BSMI** – Recognized by BSMI as a CAB for the acceptance of test data.

**NCC** - Recognized by NCC as a CAB for the acceptance of test data.

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## Singapore

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

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## Hong Kong

**OFTA** – Recognized by OFTA as a CAB for the acceptance of test data.

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## Vietnam

**MIC** – Recognized by MIC as a CAB for the acceptance of test data.

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## Russia

**GOST** – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

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## SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>

## Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

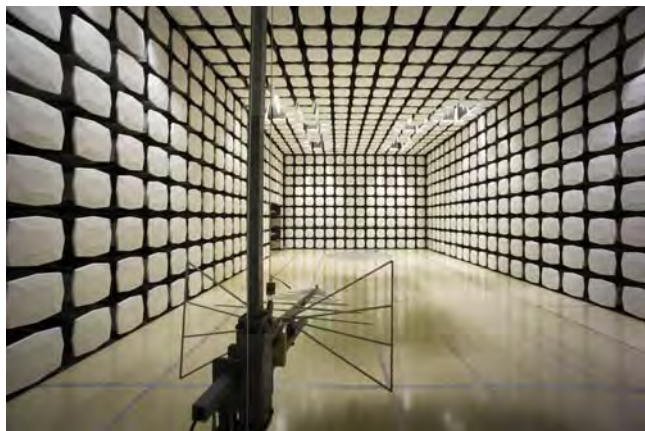
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

| <b>Test</b>                           | <b>+ MU</b> | <b>- MU</b> |
|---------------------------------------|-------------|-------------|
| Frequency Accuracy (Hz)               | 0.12        | -0.01       |
| Amplitude Accuracy (dB)               | 0.49        | -0.49       |
| Conducted Power (dB)                  | 0.41        | -0.41       |
| Radiated Power via Substitution (dB)  | 0.69        | -0.68       |
| Temperature (degrees C)               | 0.81        | -0.81       |
| Humidity (% RH)                       | 2.89        | -2.89       |
| Field Strength (dB)                   | 3.80        | -3.80       |
| AC Powerline Conducted Emissions (dB) | 2.94        | -2.94       |



|                                                                                                   |                                                                                     |                                                                                            |                                                                                                       |                                                                                                                         |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Oregon</b><br>Labs EV01-12<br>22975 NW Evergreen Pkwy<br>Hillsboro, OR 97124<br>(503) 844-4066 | <b>California</b><br>Labs OC01-13<br>41 Tesla<br>Irvine, CA 92618<br>(949) 861-8918 | <b>New York</b><br>Labs NY01-04<br>4939 Jordan Rd.<br>Elbridge, NY 13060<br>(315) 685-0796 | <b>Minnesota</b><br>Labs MN01-08<br>9349 W Broadway Ave.<br>Brooklyn Park, MN 55445<br>(763) 425-2281 | <b>Washington</b><br>Labs NC01-05, SU02, SU07<br>19201 120 <sup>th</sup> Ave. NE<br>Bothell, WA 98011<br>(425) 984-6600 |
| <b>VCCI</b>                                                                                       |                                                                                     |                                                                                            |                                                                                                       |                                                                                                                         |
| A-0108                                                                                            | A-0029                                                                              |                                                                                            | A-0109                                                                                                | A-0110                                                                                                                  |
| <b>Industry Canada</b>                                                                            |                                                                                     |                                                                                            |                                                                                                       |                                                                                                                         |
| 2834D-1, 2834D-2                                                                                  | 2834B-1, 2834B-2, 2834B-3                                                           |                                                                                            | 2834E-1                                                                                               | 2834C-1                                                                                                                 |
| <b>NVLAP</b>                                                                                      |                                                                                     |                                                                                            |                                                                                                       |                                                                                                                         |
| NVLAP Lab Code: 200630-0                                                                          | NVLAP Lab Code: 200676-0                                                            | NVLAP Lab Code: 200761-0                                                                   | NVLAP Lab Code: 200881-0                                                                              | NVLAP Lab Code: 200629-0                                                                                                |



## Client and Equipment Under Test (EUT) Information

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Company Name:</b>            | KMW Communications       |
| <b>Address:</b>                 | 1818 E. Orangethorpe Ave |
| <b>City, State, Zip:</b>        | Fullerton, CA 92831      |
| <b>Test Requested By:</b>       | Edward Lee               |
| <b>Model:</b>                   | AWS RRH                  |
| <b>First Date of Test:</b>      | January 13, 2014         |
| <b>Last Date of Test:</b>       | January 14, 2014         |
| <b>Receipt Date of Samples:</b> | January 13, 2014         |
| <b>Equipment Design Stage:</b>  | Production               |
| <b>Equipment Condition:</b>     | No Damage                |

## Information Provided by the Party Requesting the Test

### Functional Description of the EUT (Equipment Under Test):

The KMW AWS RRH is a 60W LTE transceiver operating in the 2110 MHz - 2155 MHz AWS band and supporting 5 MHz, 10 MHz, 15 MHz, and 20 MHz channel bandwidths.

### Testing Objective:

To demonstrate compliance to FCC Part 27 requirements.

## Configuration KMWC0048- 1

| Software/Firmware Running during test |         |
|---------------------------------------|---------|
| Description                           | Version |
| RRH 250 GUI                           | R21684M |

| EUT         |                    |                   |               |
|-------------|--------------------|-------------------|---------------|
| Description | Manufacturer       | Model/Part Number | Serial Number |
| AWS RRH     | KMW Communications | AWS RRH           | U365000113    |

| Peripherals in test setup boundary |                    |                   |                 |
|------------------------------------|--------------------|-------------------|-----------------|
| Description                        | Manufacturer       | Model/Part Number | Serial Number   |
| Reliability Analyzer               | KMW Communications | COBRA             | NONE            |
| Remote Laptop                      | Sony               | SVS15113FXB       | 275546003000190 |
| Power Sensor                       | Agilent            | E9300A            | MY41499318      |
| Power Divider                      | None               | None              | None            |
| Attenuator                         | Aeroflex           | 49-30-43          | None            |
| Attenuator                         | Fairview           | SA3N5W-20         | None            |
| DC Power Supply                    | HP                 | 6574A             | US36340150      |

| Cables                |        |            |         |                      |                 |
|-----------------------|--------|------------|---------|----------------------|-----------------|
| Cable Type            | Shield | Length (m) | Ferrite | Connection 1         | Connection 2    |
| RF Cable1             | Yes    | 3.0m       | No      | AWS RRH              | Attenuator      |
| RF Cable2             | Yes    | 3.0m       | No      | AWS RRH              | Attenuator      |
| Lan Cable             | No     | 1.8m       | No      | Reliability Analyzer | Remote Laptop   |
| Optic Cable           | No     | 5.0m       | No      | Cobra                | AWS RRH         |
| DC Power Cable        | No     | 5.0m       | No      | AWS RRH              | DC Power Supply |
| AC Cable              | No     | 1.8m       | No      | Reliability Analyzer | AC Mains        |
| AC Cable              | No     | 1.8m       | No      | Power Meter          | AC Mains        |
| TX Monitor Cable (x2) | No     | 3.0m       | No      | TX Monitor Port      | Unterminated    |
| RX Monitor Cable (x4) | No     | 3.0m       | No      | RX Monitor Port      | Unterminated    |
| AISG Cable            | No     | 10.0m      | No      | AISG Port            | Unterminated    |
| ALM Cable             | No     | 10.0m      | No      | ALM Port             | Unterminated    |
| RX Cable (x2)         | No     | 3.0m       | No      | RX Port              | Unterminated    |

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

## Equipment Modifications

| Item | Date       | Test                                        | Modification                         | Note                                                                | Disposition of EUT                                |
|------|------------|---------------------------------------------|--------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|
| 1    | 01/13/2014 | Conducted Output Power                      | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 2    | 01/13/2014 | Occupied Bandwidth                          | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 3    | 01/13/2014 | Emissions Mask                              | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 4    | 01/13/2014 | Spurious Emissions at the Antenna Terminals | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 5    | 01/13/2014 | Frequency Stability                         | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 6    | 01/14/2014 | Field Strength of Spurious Emissions        | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed.                  |

## CONDUCTED OUTPUT POWER

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         | E8257D | TGU | 2/1/2012  | 36       |
| Power Sensor      | Agilent         | E4412A | SQE | 4/11/2012 | 24       |
| Power Meter       | Hewlett Packard | E4418A | SPA | 4/11/2012 | 24       |
| Spectrum Analyzer | Agilent         | E4440A | AFA | 6/15/2012 | 24       |

### TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Prior to making the measurements, the setup and attenuator was calibrated using a signal generator and a power meter. Measurements were taken with RMS average detector and the Channel Power function on the analyzer.

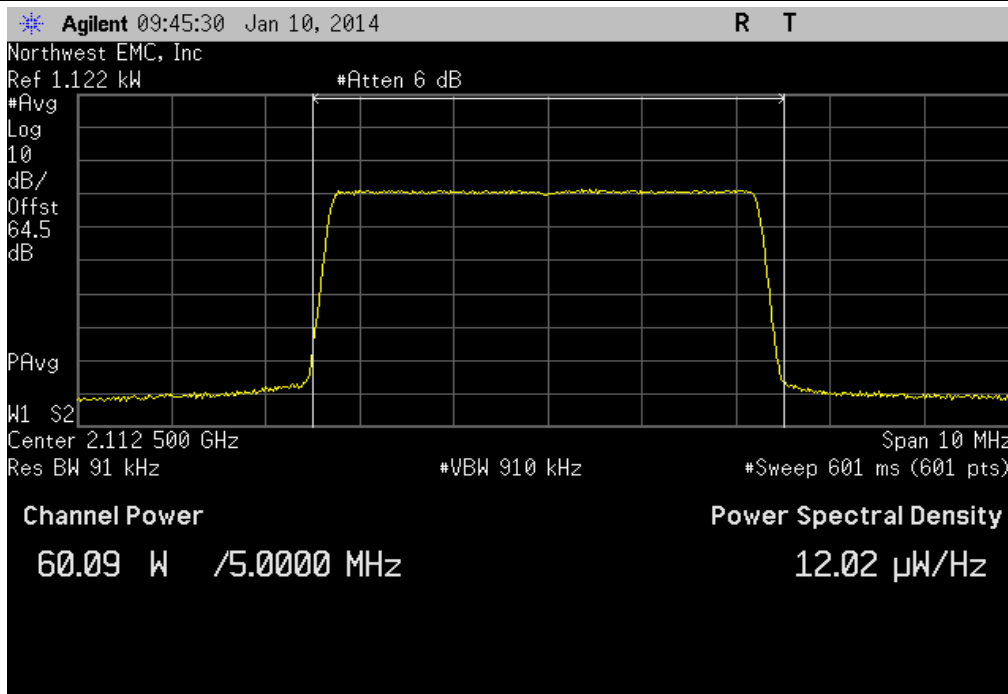


# CONDUCTED OUTPUT POWER

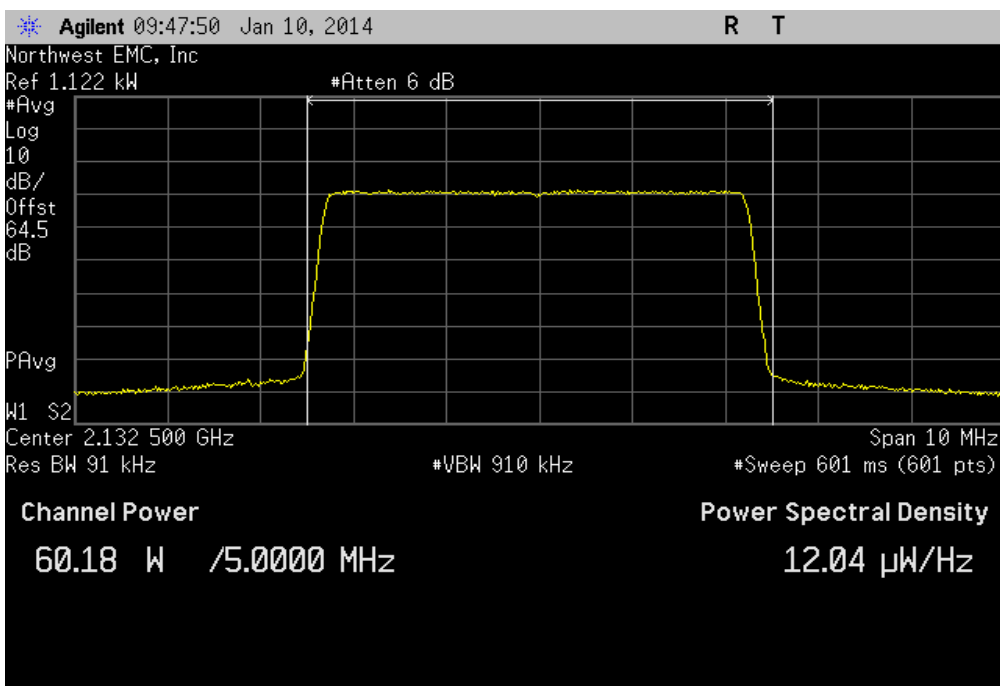
XMIT 2013.08.15

|                                                                                                                                                                                                                                                                                                          |                                                        |                                                                                             |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|
| EUT: AWS RRH                                                                                                                                                                                                                                                                                             |                                                        | Work Order: KMWC0048                                                                        |                   |
| Serial Number: U365000113                                                                                                                                                                                                                                                                                |                                                        | Date: 01/13/14                                                                              |                   |
| Customer: KMW Communications                                                                                                                                                                                                                                                                             |                                                        | Temperature: 23.4°C                                                                         |                   |
| Attendees: Edward Lee                                                                                                                                                                                                                                                                                    |                                                        | Humidity: 42%                                                                               |                   |
| Project: None                                                                                                                                                                                                                                                                                            |                                                        | Barometric Pres.: 1012                                                                      |                   |
| Tested by: Jaemi Suh                                                                                                                                                                                                                                                                                     |                                                        | Job Site: OC10                                                                              |                   |
| Power: 48VDC                                                                                                                                                                                                                                                                                             |                                                        |                                                                                             |                   |
| TEST SPECIFICATIONS                                                                                                                                                                                                                                                                                      |                                                        | Test Method                                                                                 |                   |
| FCC 27L:2014                                                                                                                                                                                                                                                                                             |                                                        | ANSI/TIA/EIA-603-C-2004                                                                     |                   |
| COMMENTS                                                                                                                                                                                                                                                                                                 |                                                        |                                                                                             |                   |
| Power Level Settings: 60W. Reference level offset: 30dB Attenuator + 20 dB Attenuator + 10dB Attenuator + Power Divider (3dB) + Cable Loss (1.5dB) = 64.5dB. Limit is determined at the time of licensing. Limit of 1640 W EIRP takes into account of the antenna structure at the time of installation. |                                                        |                                                                                             |                   |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                                                                                                                                            |                                                        |                                                                                             |                   |
| None                                                                                                                                                                                                                                                                                                     |                                                        |                                                                                             |                   |
| Configuration #                                                                                                                                                                                                                                                                                          | 1                                                      | Signature  |                   |
|                                                                                                                                                                                                                                                                                                          |                                                        | Measured Power (W)                                                                          | Limit Result      |
| Port A                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                             |                   |
| LTE 5M                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2112.5 MHz                                | 60.09                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.18                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2152.5 MHz                               | 60.33                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 4FA, 2112.5, 2122.5, 2132.5, 2152.5 MHz | 60.41                                                                                       | See Comments Pass |
| LTE 10M                                                                                                                                                                                                                                                                                                  |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2115 MHz                                  | 60.38                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.27                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2150 MHz                                 | 60.73                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 4FA, 2115, 2125, 2135, 2150 MHz         | 60.98                                                                                       | See Comments Pass |
| LTE 15M                                                                                                                                                                                                                                                                                                  |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2117.5 MHz                                | 60.3                                                                                        | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.7                                                                                        | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2147.5 MHz                               | 60.66                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 2FA, 2117.5, 2147.5 MHz                 | 60.8                                                                                        | See Comments Pass |
| LTE 20M                                                                                                                                                                                                                                                                                                  |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2120 MHz                                  | 60.58                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.54                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2145 MHz                                 | 60.68                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 2FA, 2120, 2145 MHz                     | 60.41                                                                                       | See Comments Pass |
| Port B                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                             |                   |
| LTE 5M                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2112.5 MHz                                | 60.69                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.21                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2152.5 MHz                               | 61.8                                                                                        | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 4FA, 2112.5, 2122.5, 2132.5, 2152.5 MHz | 60.39                                                                                       | See Comments Pass |
| LTE 10M                                                                                                                                                                                                                                                                                                  |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2115 MHz                                  | 60.34                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 61.17                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2150 MHz                                 | 60.95                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 4FA, 2115, 2125, 2135, 2150 MHz         | 60.11                                                                                       | See Comments Pass |
| LTE 15M                                                                                                                                                                                                                                                                                                  |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2117.5 MHz                                | 60.43                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.4                                                                                        | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2147.5 MHz                               | 60.6                                                                                        | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 2FA, 2117.5, 2147.5 MHz                 | 60.19                                                                                       | See Comments Pass |
| LTE 20M                                                                                                                                                                                                                                                                                                  |                                                        |                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                          | Low Channel, 2120 MHz                                  | 60.51                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Mid Channel, 2132.5 MHz                                | 60.75                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | High Channel, 2145 MHz                                 | 60.34                                                                                       | See Comments Pass |
|                                                                                                                                                                                                                                                                                                          | Multi Channel, 2FA, 2120, 2145 MHz                     | 60                                                                                          | See Comments Pass |

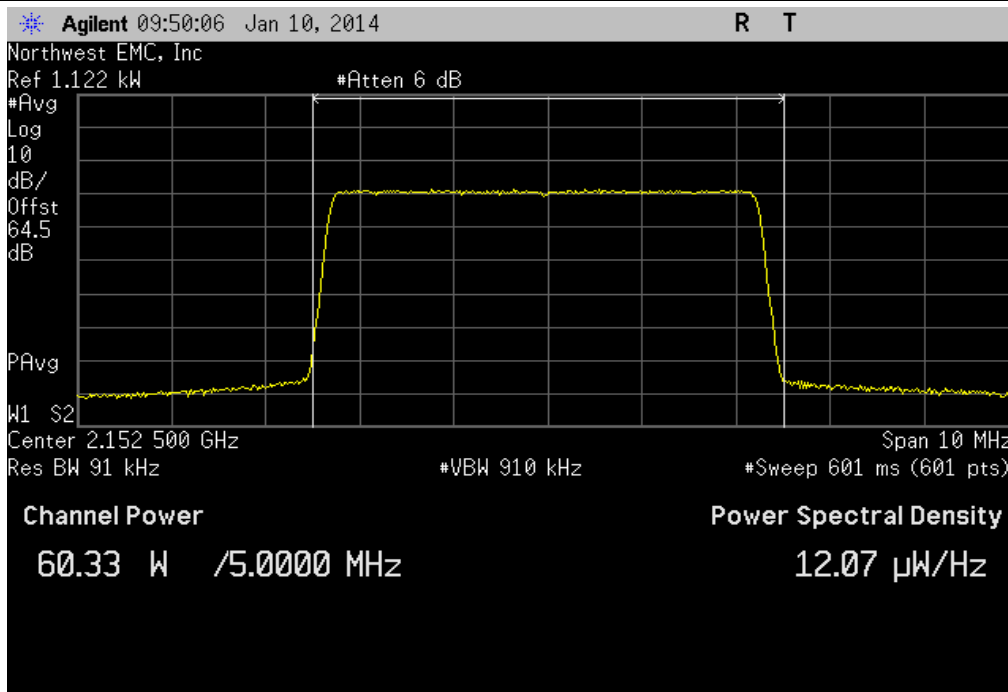
| Port A, LTE 5M, Low Channel |  |  |  |                           |              |        |  |
|-----------------------------|--|--|--|---------------------------|--------------|--------|--|
|                             |  |  |  | Measured Power<br>(WATTS) | Limit        | Result |  |
|                             |  |  |  | 60.09                     | See Comments | Pass   |  |



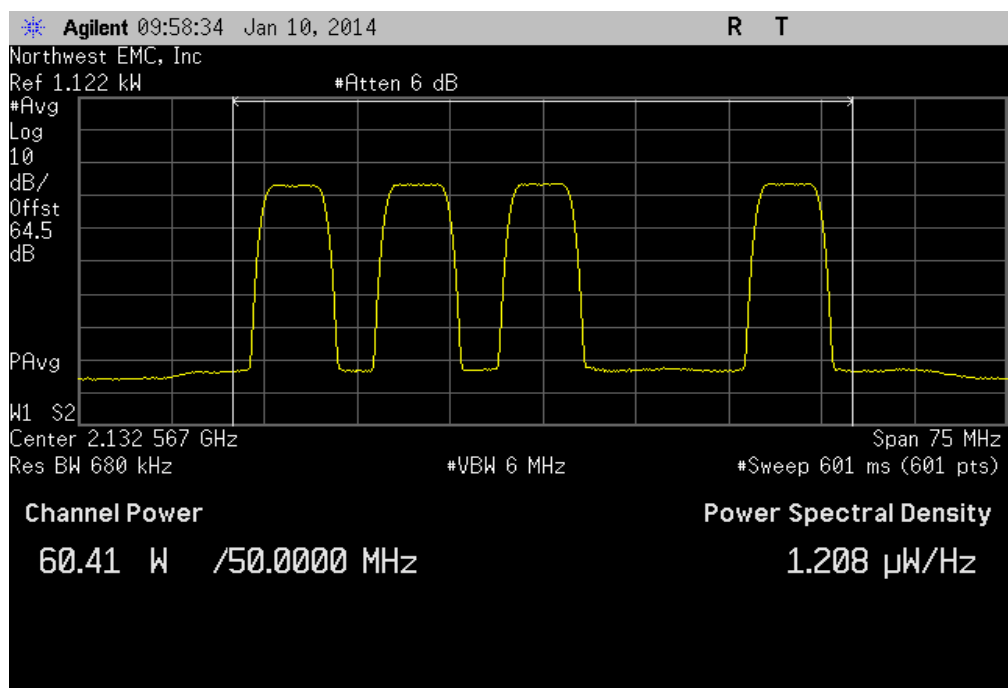
| Port A, LTE 5M, Mid Channel |  |  |  |                       |              |        |  |
|-----------------------------|--|--|--|-----------------------|--------------|--------|--|
|                             |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                             |  |  |  | 60.18                 | See Comments | Pass   |  |



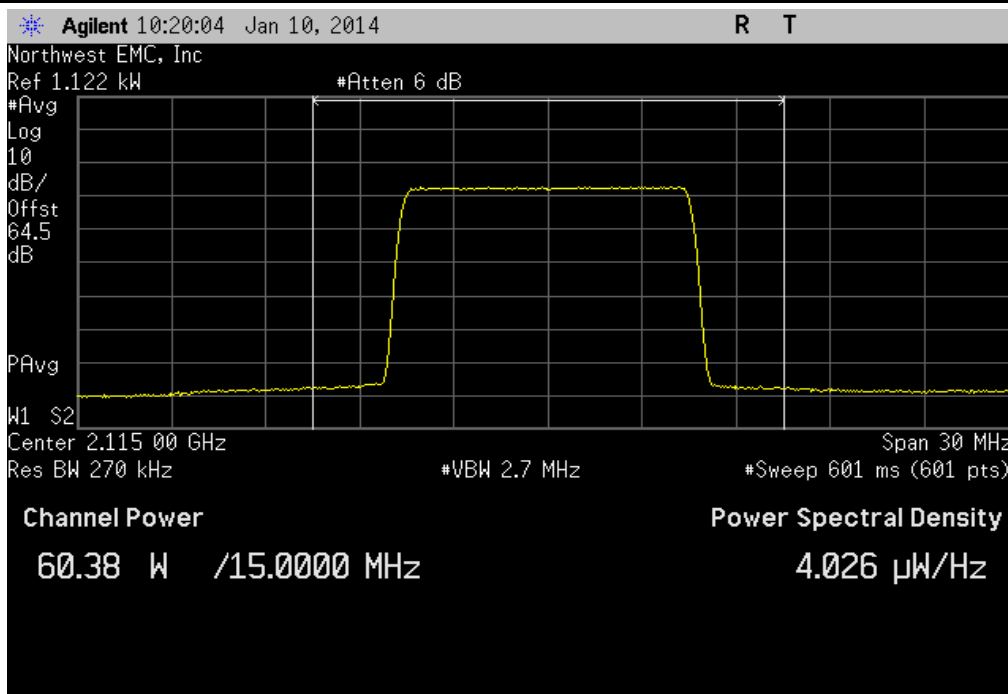
| Port A, LTE 5M, High Channel |  |  |       |              |  |        |  |
|------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power               |  |  |       | Limit        |  | Result |  |
| (W)                          |  |  |       |              |  |        |  |
|                              |  |  | 60.33 | See Comments |  | Pass   |  |



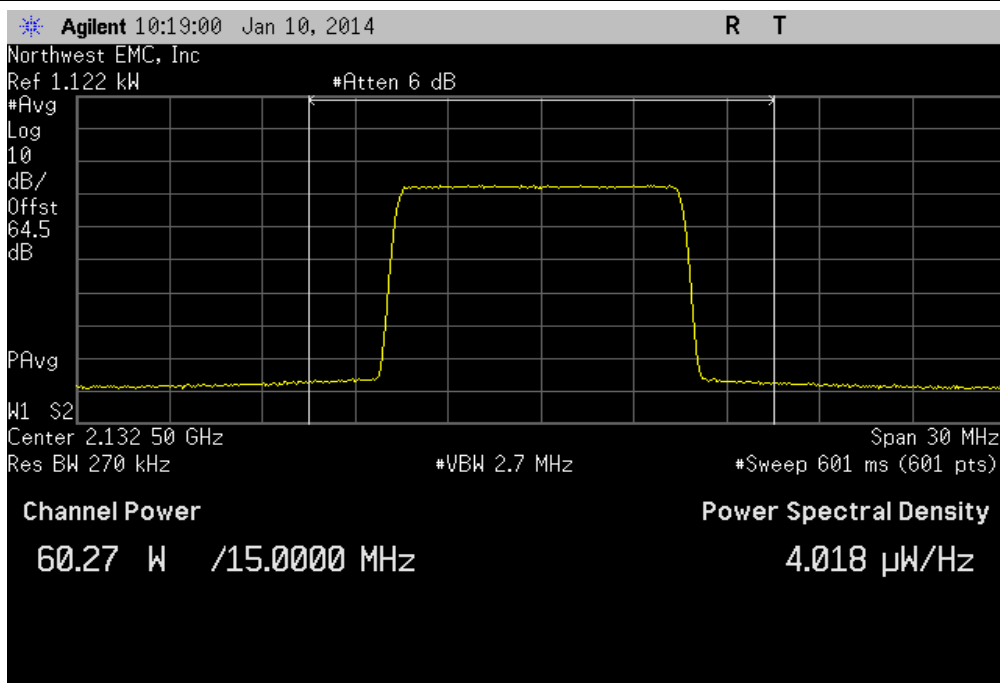
| Port A, LTE 5M, Multi Channel |  |  |       |              |  |        |  |
|-------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                |  |  |       | Limit        |  | Result |  |
| (W)                           |  |  |       |              |  |        |  |
|                               |  |  | 60.41 | See Comments |  | Pass   |  |



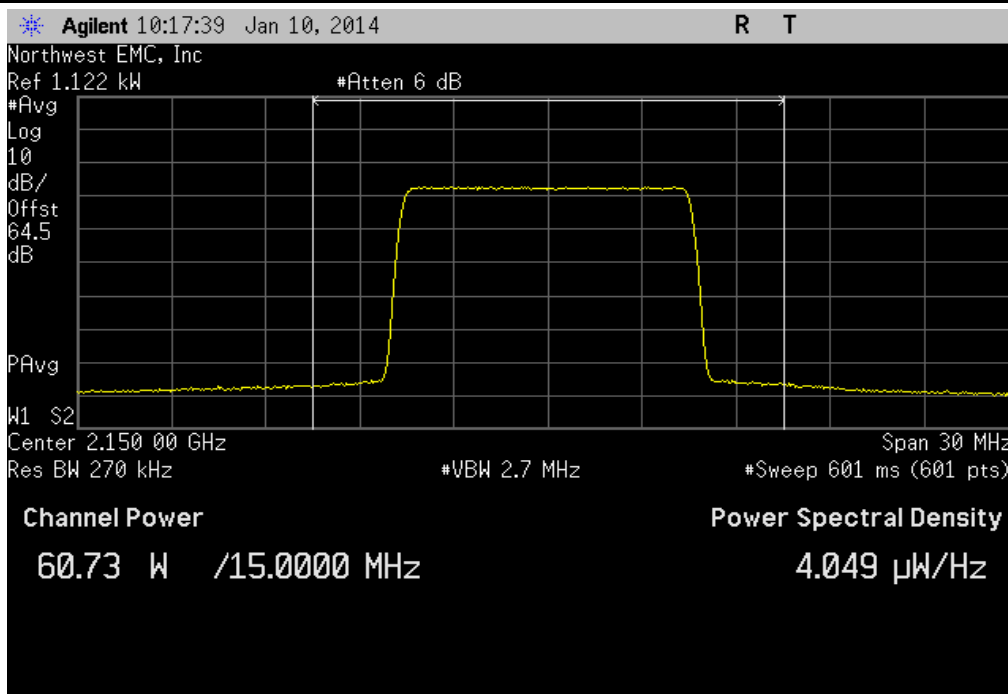
| Port A, LTE 10M, Low Channel |  |  |       |              |  |        |  |
|------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power               |  |  |       | Limit        |  | Result |  |
| (W)                          |  |  |       |              |  |        |  |
|                              |  |  | 60.38 | See Comments |  | Pass   |  |



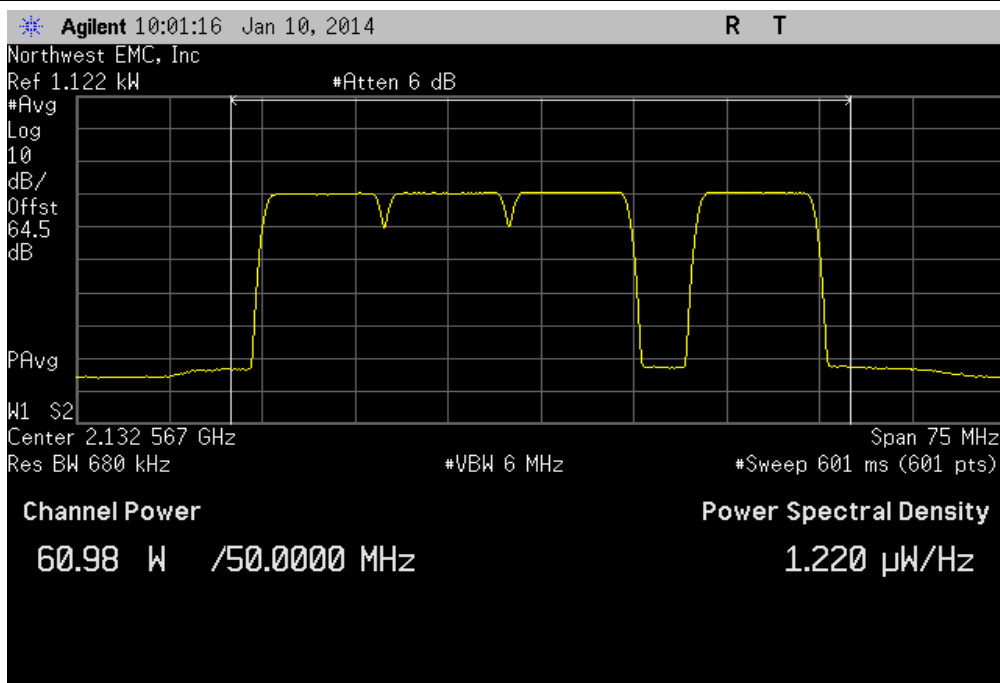
| Port A, LTE 10M, Mid Channel |  |  |       |              |  |        |  |
|------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power               |  |  |       | Limit        |  | Result |  |
| (W)                          |  |  |       |              |  |        |  |
|                              |  |  | 60.27 | See Comments |  | Pass   |  |



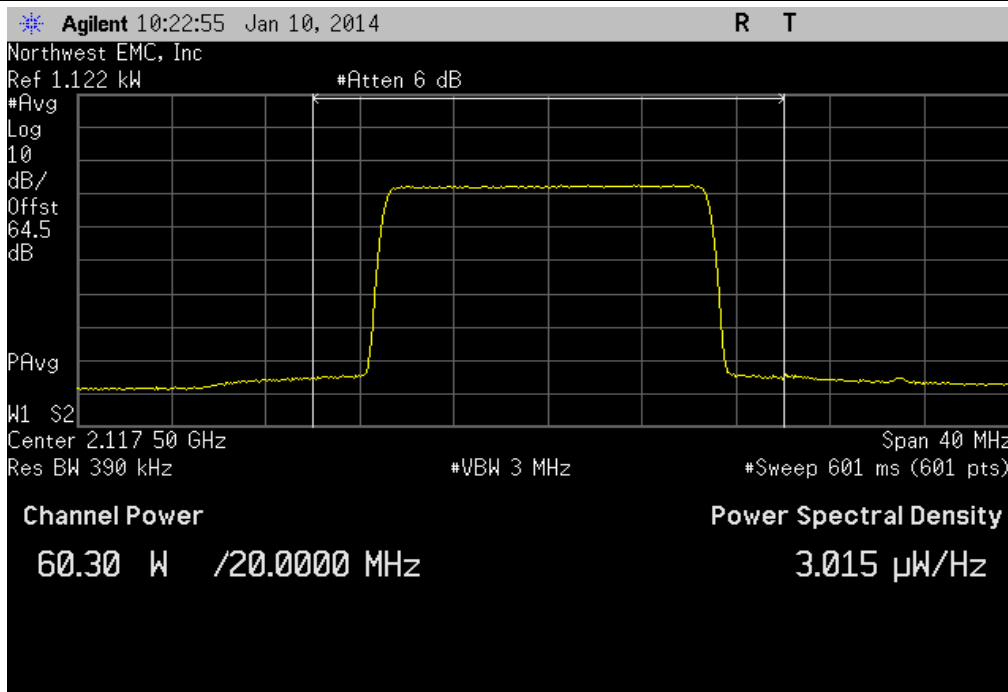
| Port A, LTE 10M, High Channel |  |  |       |              |  |        |  |
|-------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                |  |  |       | Limit        |  | Result |  |
| (W)                           |  |  |       |              |  |        |  |
|                               |  |  | 60.73 | See Comments |  | Pass   |  |



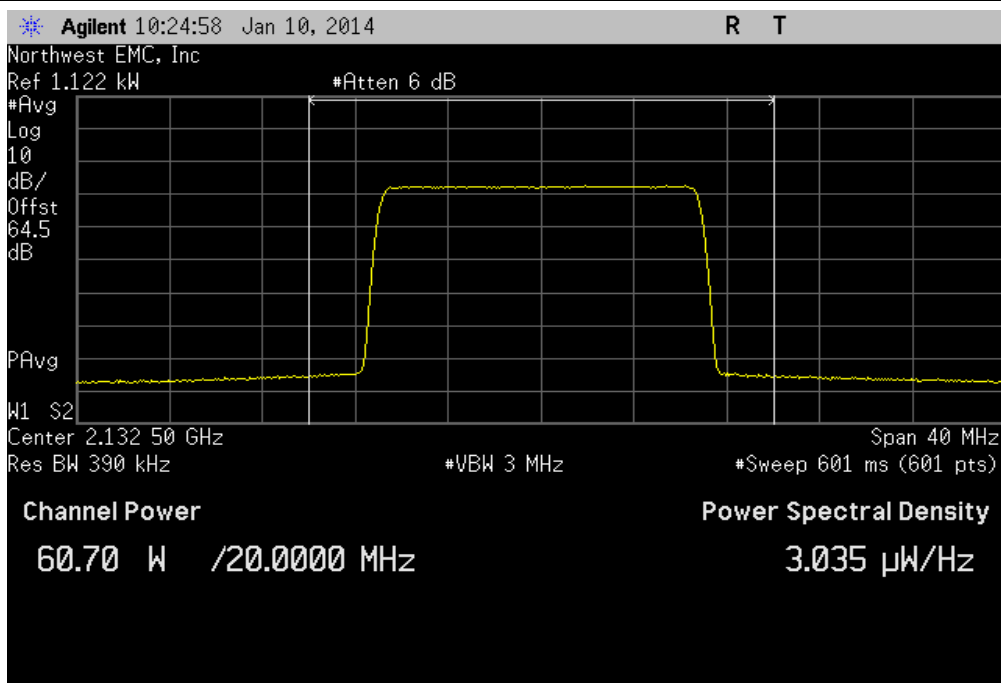
| Port A, LTE 10M, Multi Channel |  |  |       |              |  |        |  |
|--------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                 |  |  |       | Limit        |  | Result |  |
| (W)                            |  |  |       |              |  |        |  |
|                                |  |  | 60.98 | See Comments |  | Pass   |  |



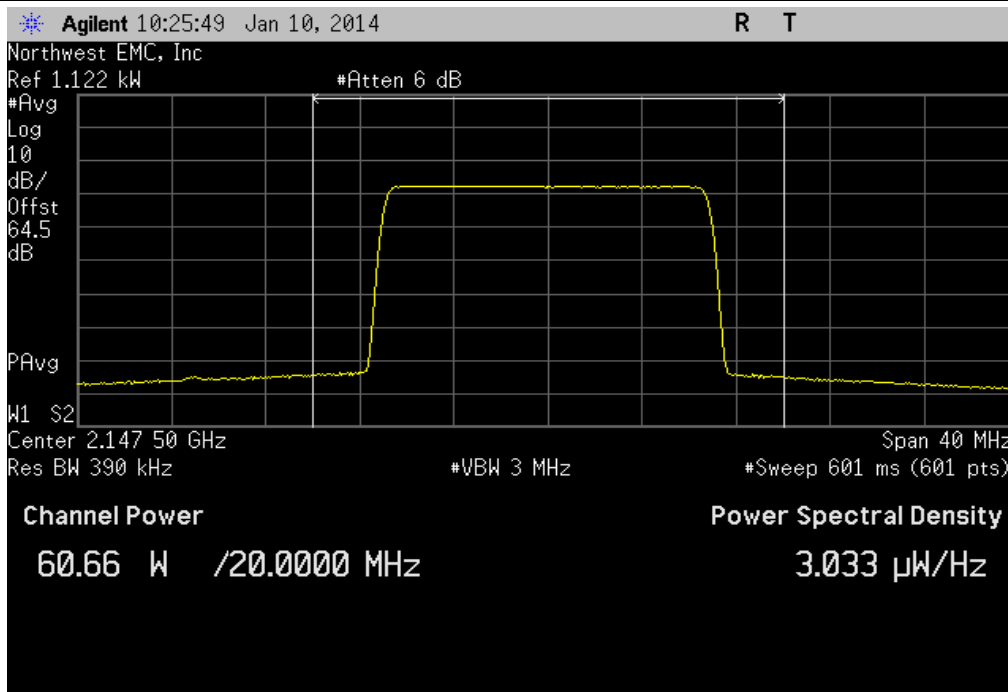
| Port A, LTE 15M, Low Channel |  |  |  |              |  |        |  |
|------------------------------|--|--|--|--------------|--|--------|--|
| Measured Power               |  |  |  | Limit        |  | Result |  |
| (W)                          |  |  |  |              |  |        |  |
| 60.3                         |  |  |  | See Comments |  | Pass   |  |



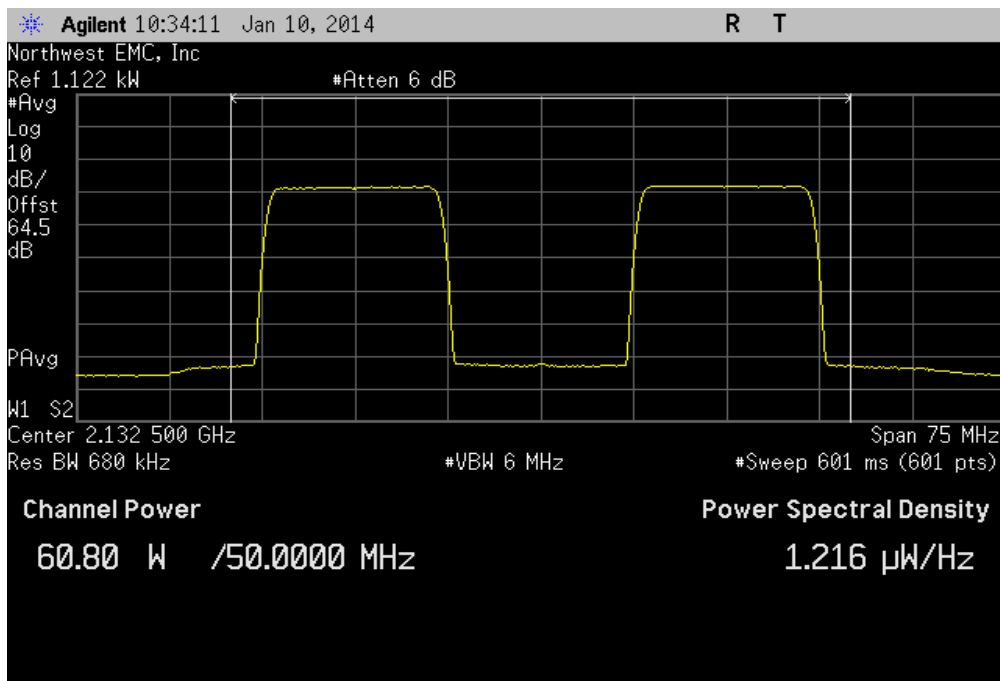
| Port A, LTE 15M, Mid Channel |  |  |  |              |  |        |  |
|------------------------------|--|--|--|--------------|--|--------|--|
| Measured Power               |  |  |  | Limit        |  | Result |  |
| (W)                          |  |  |  |              |  |        |  |
| 60.7                         |  |  |  | See Comments |  | Pass   |  |



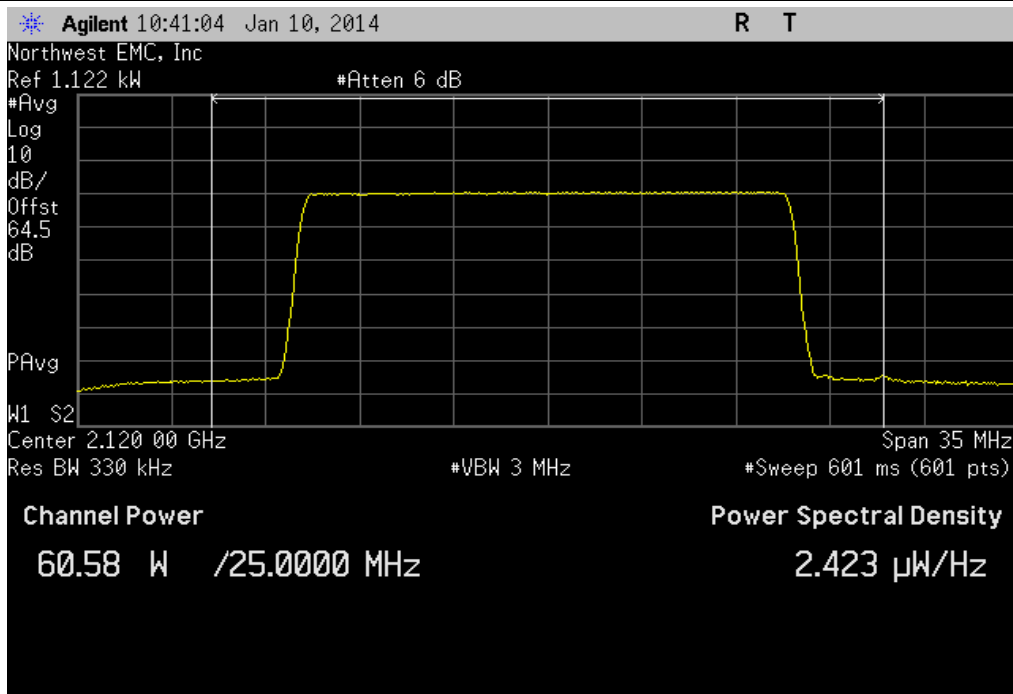
| Port A, LTE 15M, High Channel |  |  |       |              |  |        |  |
|-------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                |  |  |       | Limit        |  | Result |  |
| (W)                           |  |  |       |              |  |        |  |
|                               |  |  | 60.66 | See Comments |  | Pass   |  |



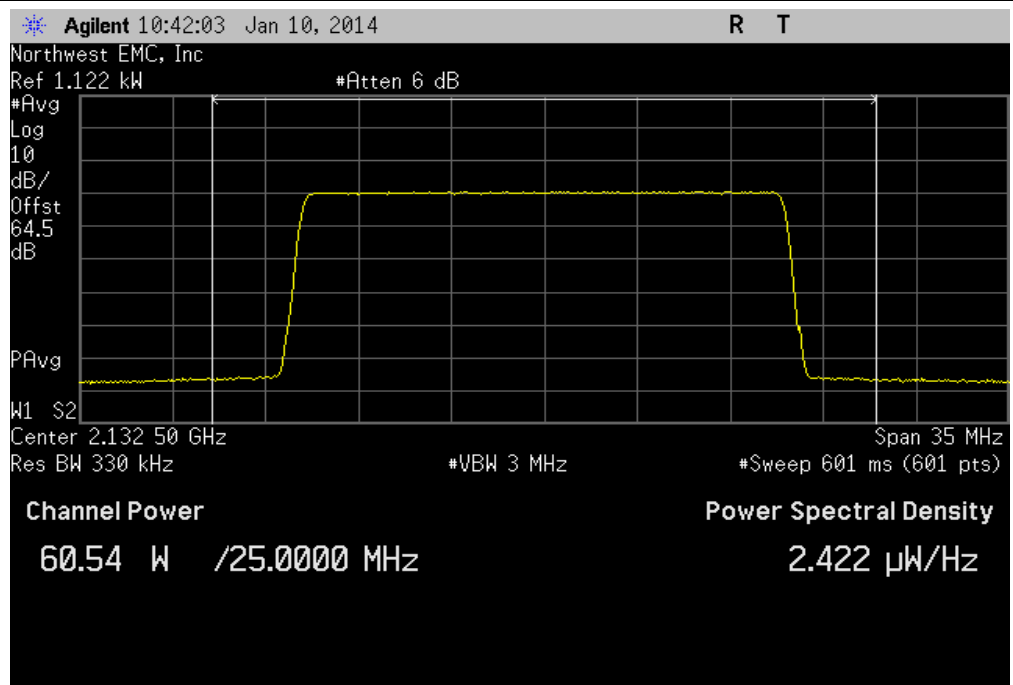
| Port A, LTE 15M, Multi Channel |  |  |      |              |  |        |  |
|--------------------------------|--|--|------|--------------|--|--------|--|
| Measured Power                 |  |  |      | Limit        |  | Result |  |
| (W)                            |  |  |      |              |  |        |  |
|                                |  |  | 60.8 | See Comments |  | Pass   |  |



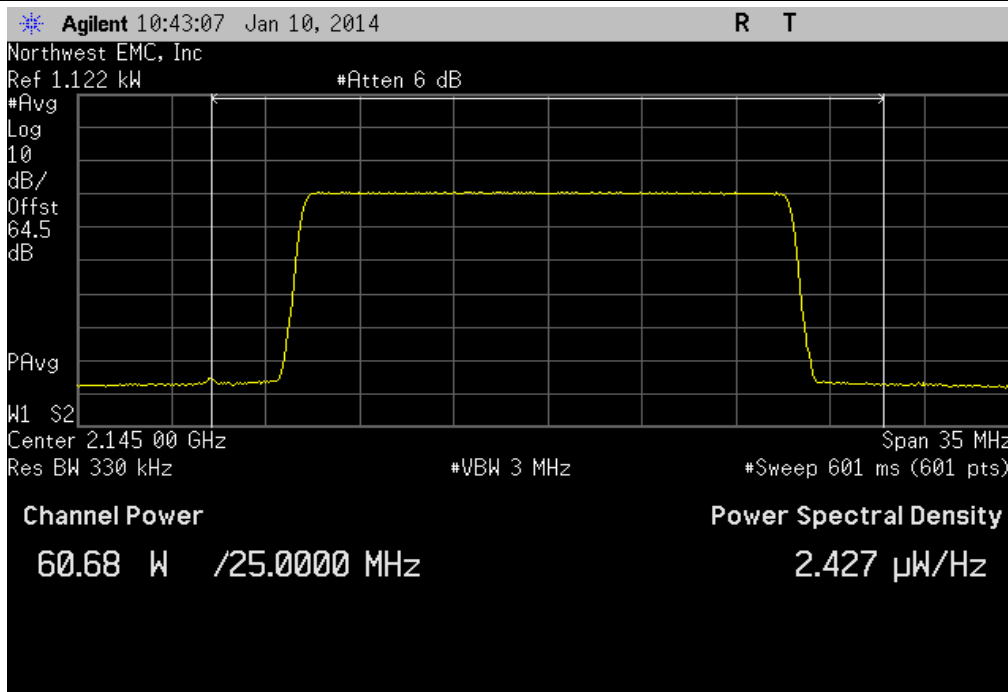
| Port A, LTE 20M, Low Channel |  |  |       |              |  |        |  |
|------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power               |  |  |       | Limit        |  | Result |  |
| (W)                          |  |  |       |              |  |        |  |
|                              |  |  | 60.58 | See Comments |  | Pass   |  |



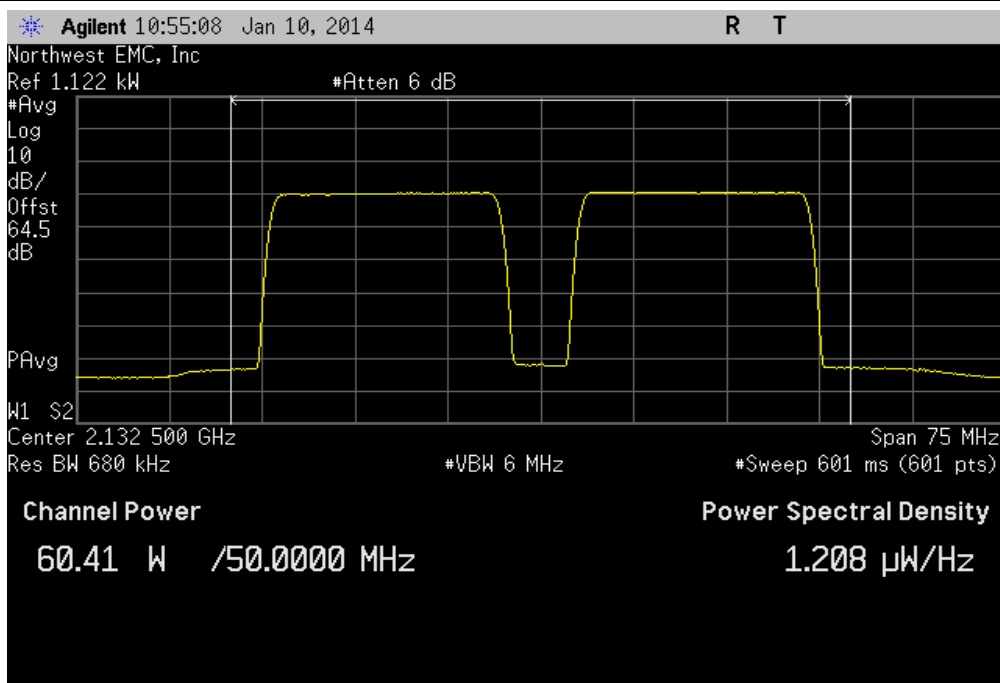
| Port A, LTE 20M, Mid Channel |  |  |       |              |  |        |  |
|------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power               |  |  |       | Limit        |  | Result |  |
| (W)                          |  |  |       |              |  |        |  |
|                              |  |  | 60.54 | See Comments |  | Pass   |  |



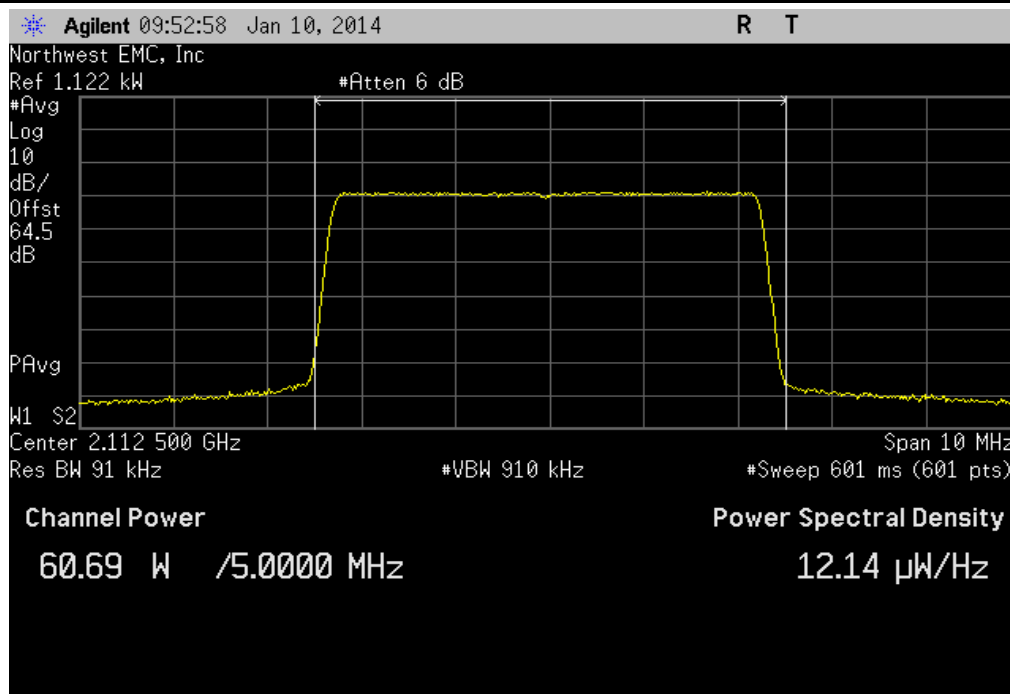
| Port A, LTE 20M, High Channel |  |  |  |                       |              |        |  |
|-------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                               |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                               |  |  |  | 60.68                 | See Comments | Pass   |  |



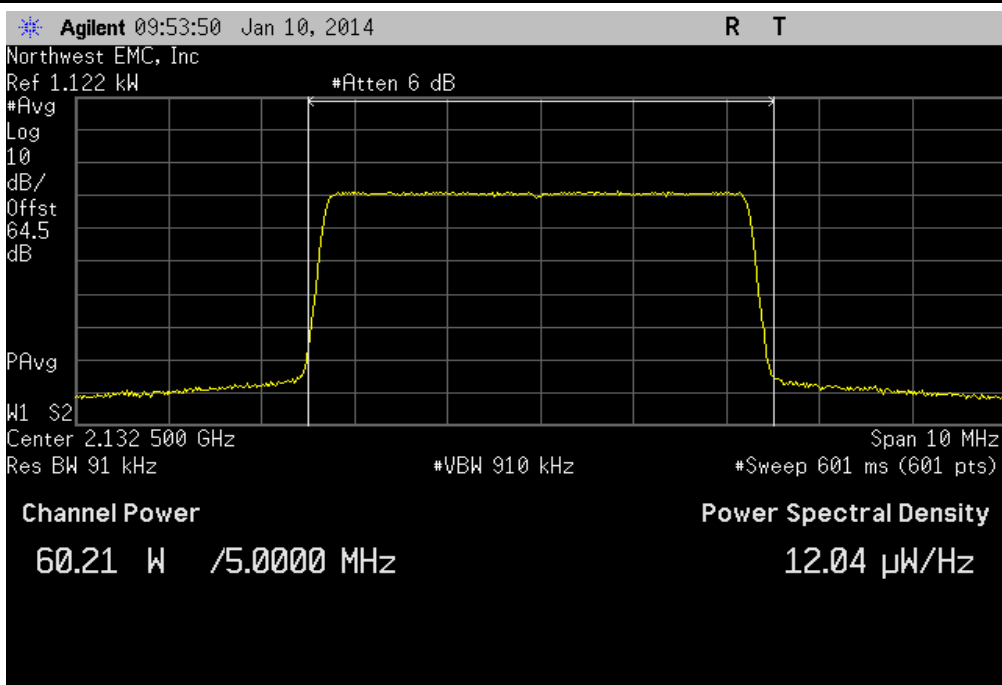
| Port A, LTE 20M, Multi Channel |  |  |  |                       |              |        |  |
|--------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                                |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                                |  |  |  | 60.41                 | See Comments | Pass   |  |



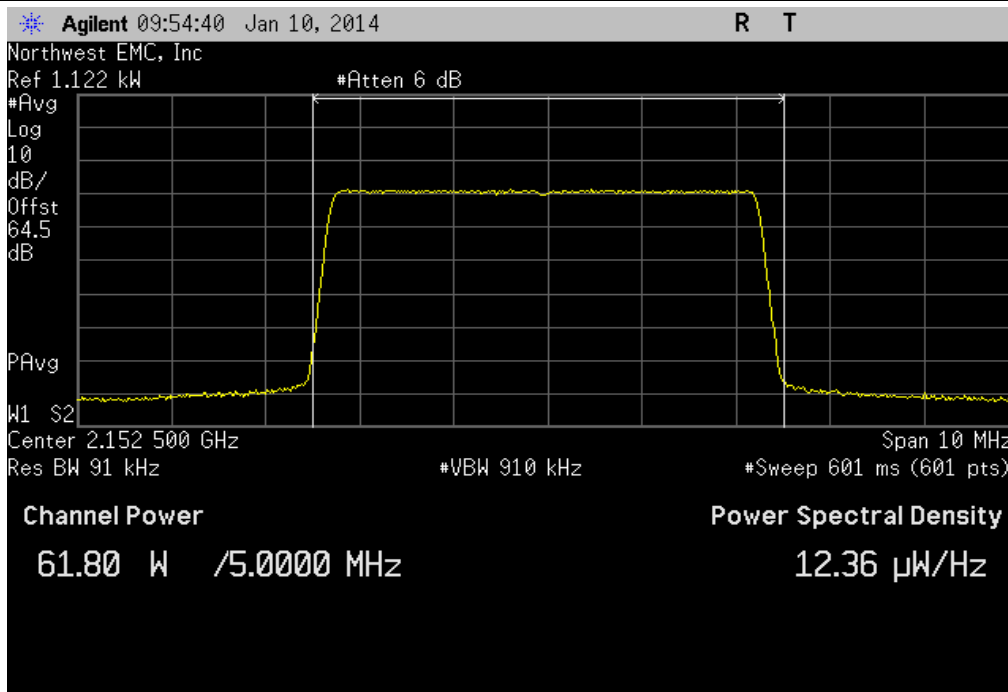
| Port B, LTE 5M, Low Channel |  |  |  |              |  |        |  |
|-----------------------------|--|--|--|--------------|--|--------|--|
| Measured Power              |  |  |  | Limit        |  | Result |  |
| (W)                         |  |  |  |              |  |        |  |
| 60.69                       |  |  |  | See Comments |  | Pass   |  |



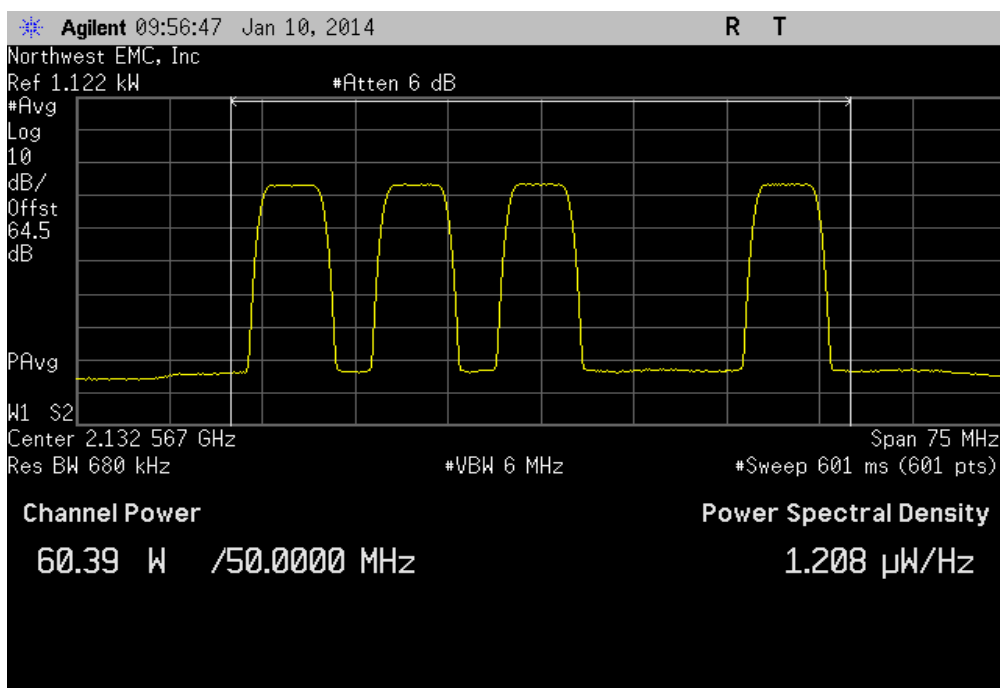
| Port B, LTE 5M, Mid Channel |  |  |  |              |  |        |  |
|-----------------------------|--|--|--|--------------|--|--------|--|
| Measured Power              |  |  |  | Limit        |  | Result |  |
| (W)                         |  |  |  |              |  |        |  |
| 60.21                       |  |  |  | See Comments |  | Pass   |  |



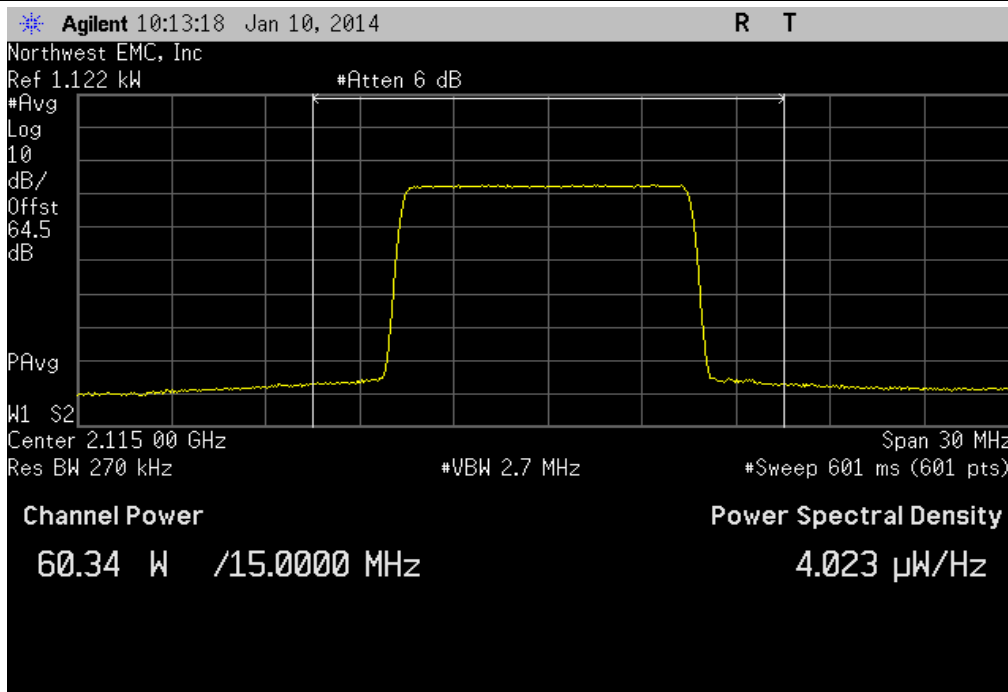
| Port B, LTE 5M, High Channel |  |  |      |              |  |        |  |
|------------------------------|--|--|------|--------------|--|--------|--|
| Measured Power               |  |  |      | Limit        |  | Result |  |
| (W)                          |  |  |      |              |  |        |  |
|                              |  |  | 61.8 | See Comments |  | Pass   |  |



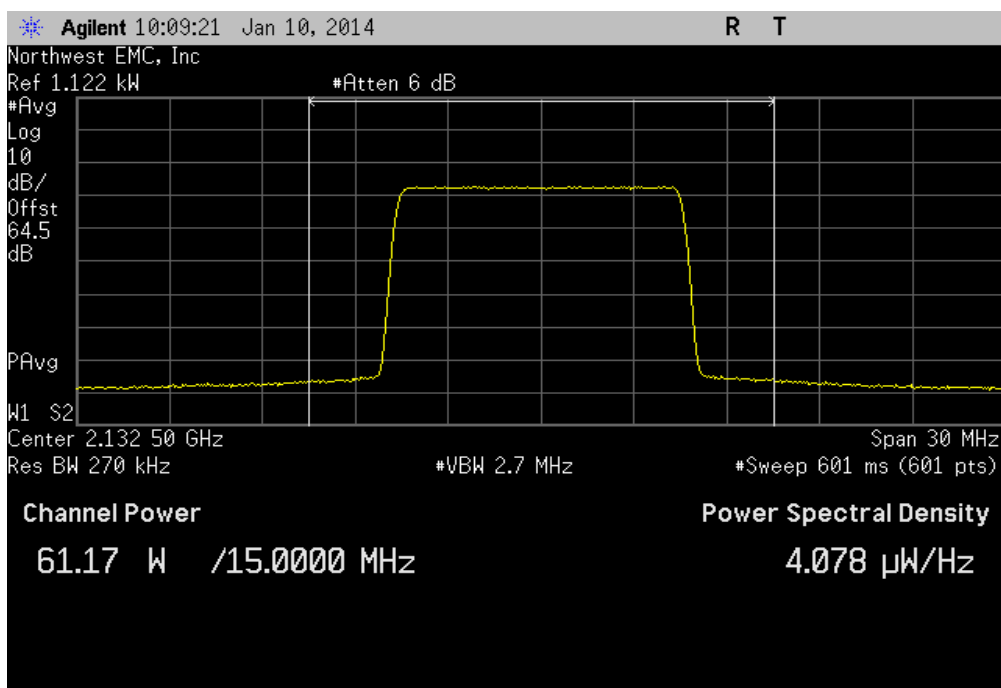
| Port B, LTE 5M, Multi Channel |  |  |       |              |  |        |  |
|-------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                |  |  |       | Limit        |  | Result |  |
| (W)                           |  |  |       |              |  |        |  |
|                               |  |  | 60.39 | See Comments |  | Pass   |  |



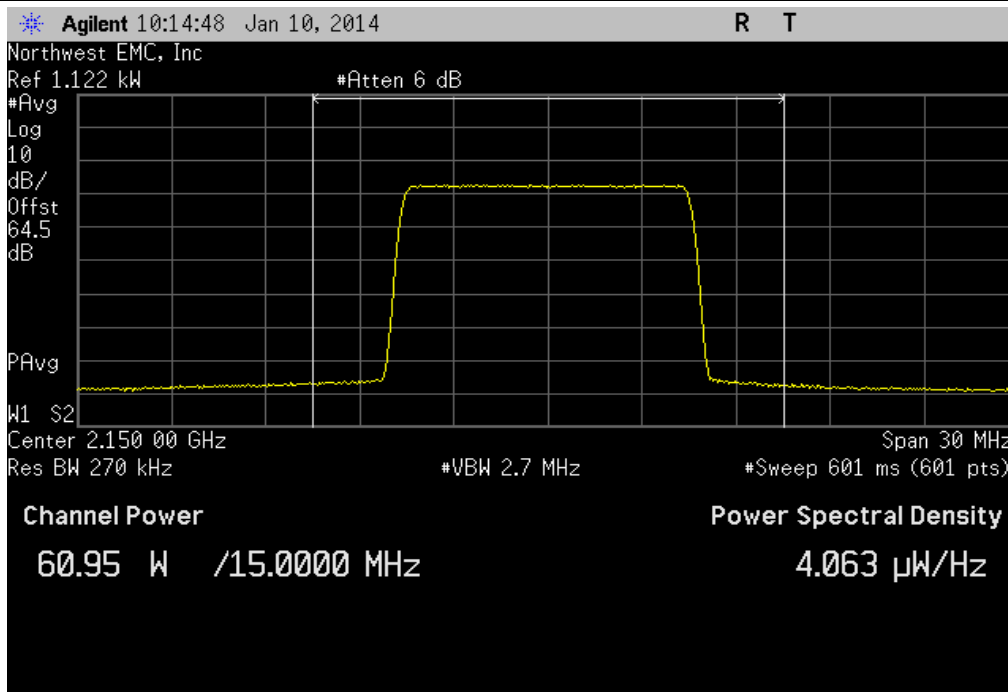
| Port B, LTE 10M, Low Channel |  |  |  |  |       |              |      |
|------------------------------|--|--|--|--|-------|--------------|------|
| Measured Power               |  |  |  |  | Limit | Result       |      |
| (W)                          |  |  |  |  |       |              |      |
|                              |  |  |  |  | 60.34 | See Comments | Pass |



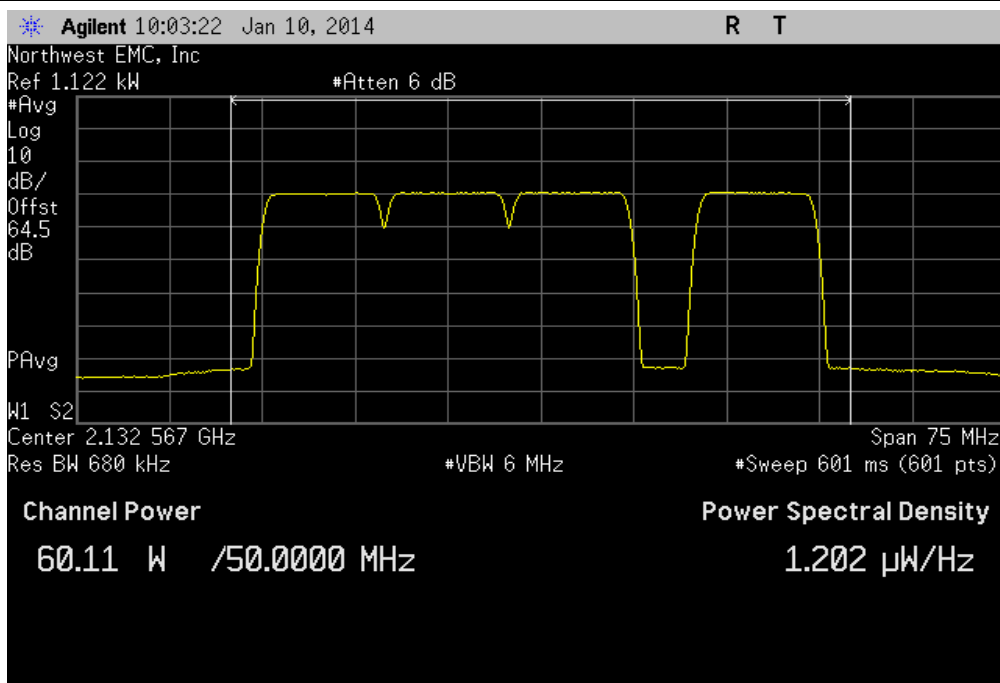
| Port B, LTE 10M, Mid Channel |  |  |  |  |       |              |      |
|------------------------------|--|--|--|--|-------|--------------|------|
| Measured Power               |  |  |  |  | Limit | Result       |      |
| (W)                          |  |  |  |  |       |              |      |
|                              |  |  |  |  | 61.17 | See Comments | Pass |



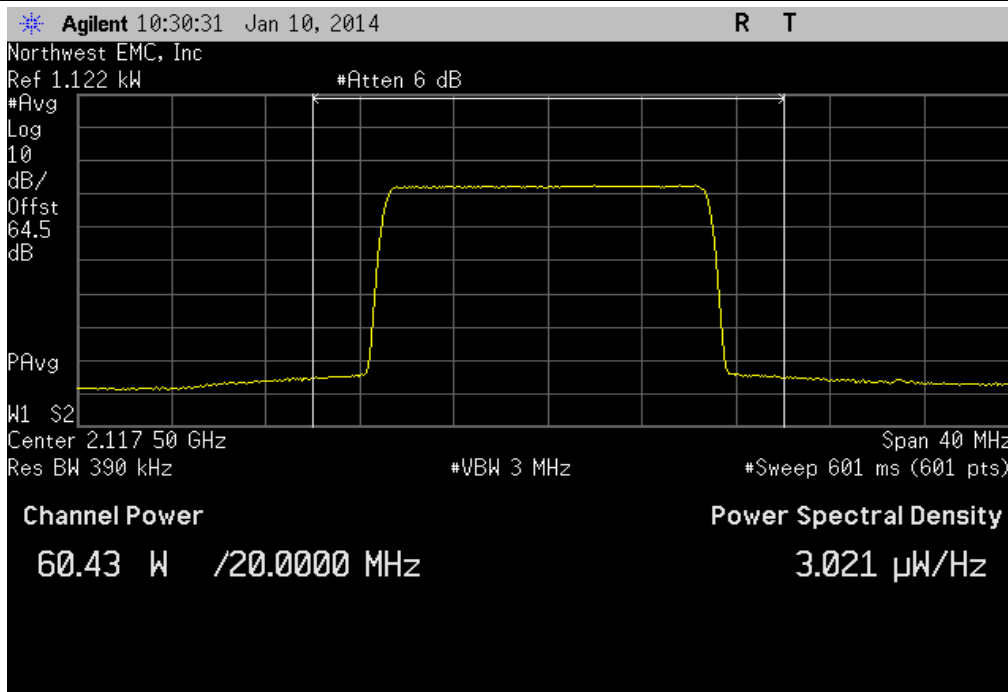
| Port B, LTE 10M, High Channel |  |  |       |              |  |        |  |
|-------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                |  |  |       | Limit        |  | Result |  |
| (W)                           |  |  |       |              |  |        |  |
|                               |  |  | 60.95 | See Comments |  | Pass   |  |



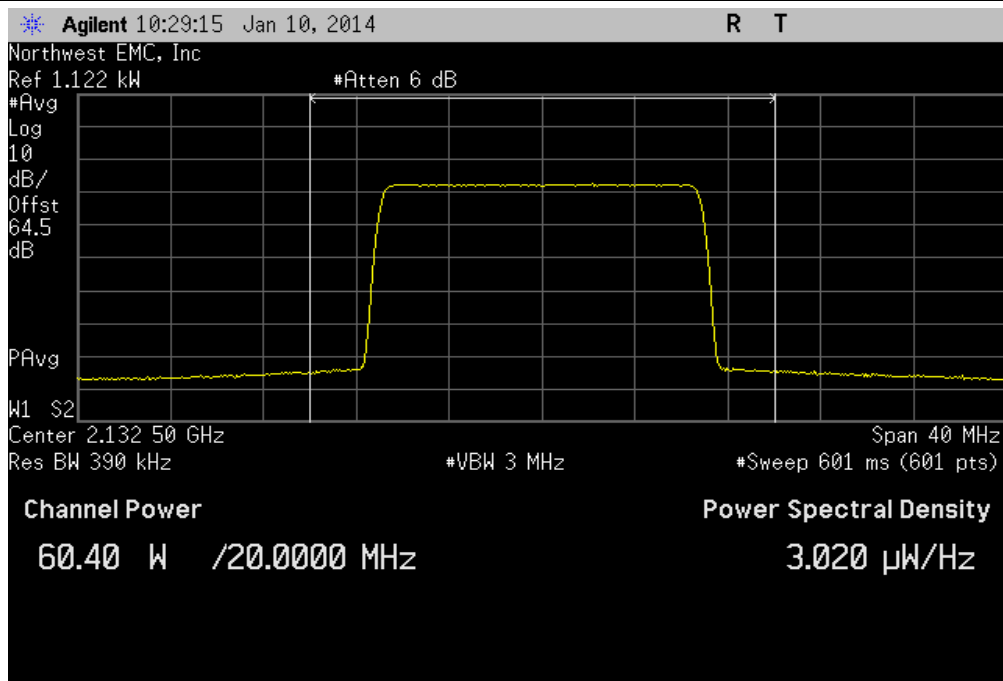
| Port B, LTE 10M, Multi Channel |  |  |       |              |  |        |  |
|--------------------------------|--|--|-------|--------------|--|--------|--|
| Measured Power                 |  |  |       | Limit        |  | Result |  |
| (W)                            |  |  |       |              |  |        |  |
|                                |  |  | 60.11 | See Comments |  | Pass   |  |



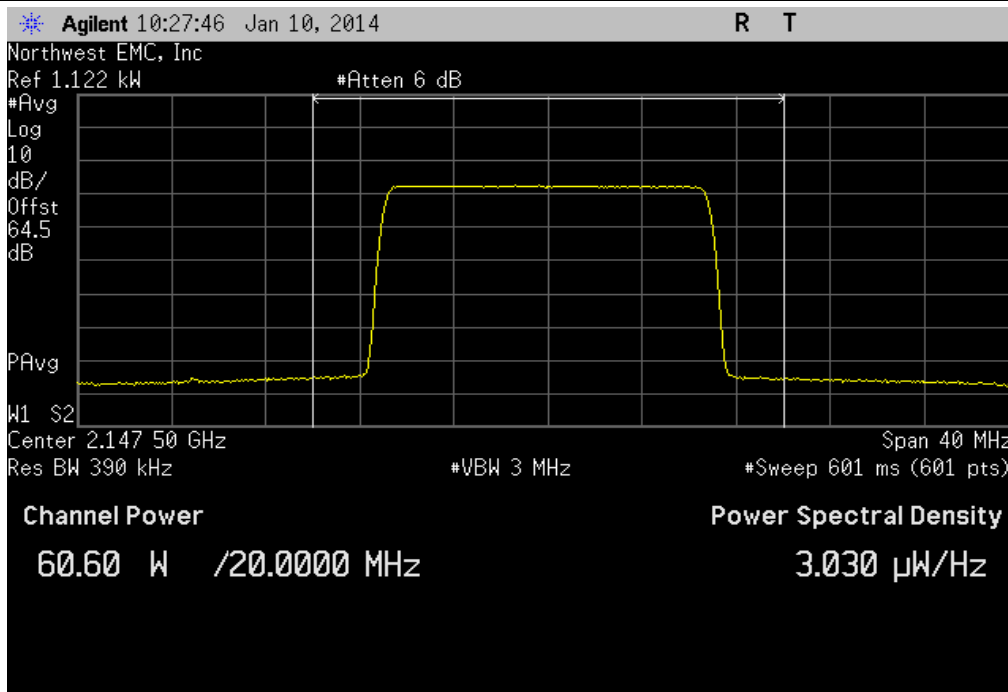
| Port B, LTE 15M, Low Channel |  |  |  |                       |              |        |  |
|------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                              |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                              |  |  |  | 60.43                 | See Comments | Pass   |  |



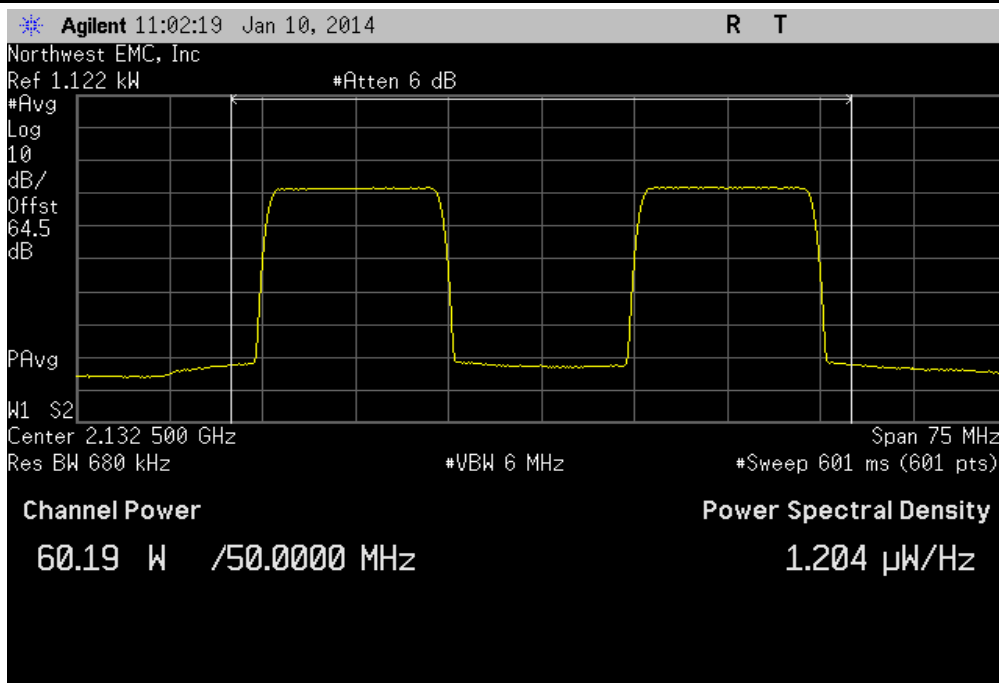
| Port B, LTE 15M, Mid Channel |  |  |  |                       |              |        |  |
|------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                              |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                              |  |  |  | 60.4                  | See Comments | Pass   |  |



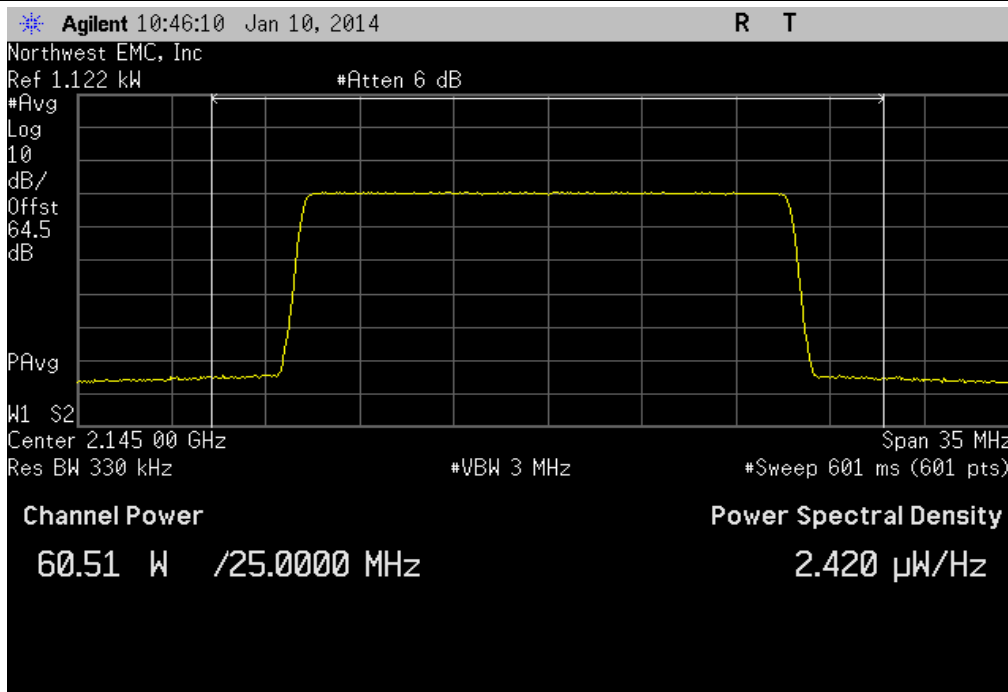
| Port B, LTE 15M, High Channel |  |  |  |                |              |        |  |
|-------------------------------|--|--|--|----------------|--------------|--------|--|
|                               |  |  |  | Measured Power | Limit        | Result |  |
|                               |  |  |  | (W)            |              |        |  |
|                               |  |  |  | 60.6           | See Comments | Pass   |  |



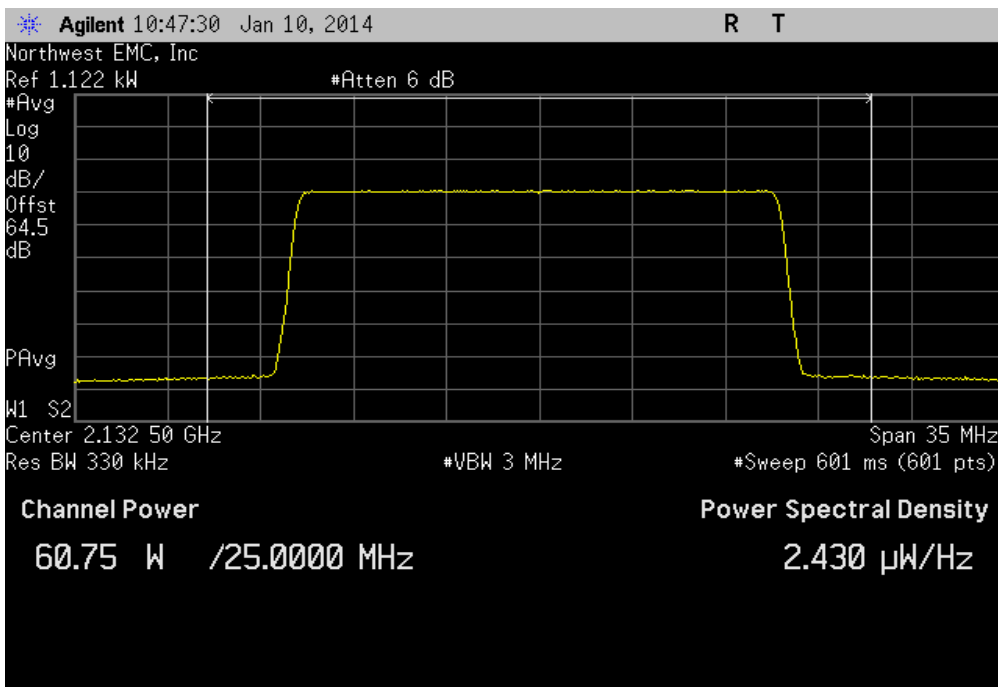
| Port B, LTE 15M, Multi Channel |  |  |  |                |              |        |  |
|--------------------------------|--|--|--|----------------|--------------|--------|--|
|                                |  |  |  | Measured Power | Limit        | Result |  |
|                                |  |  |  | (W)            |              |        |  |
|                                |  |  |  | 60.19          | See Comments | Pass   |  |



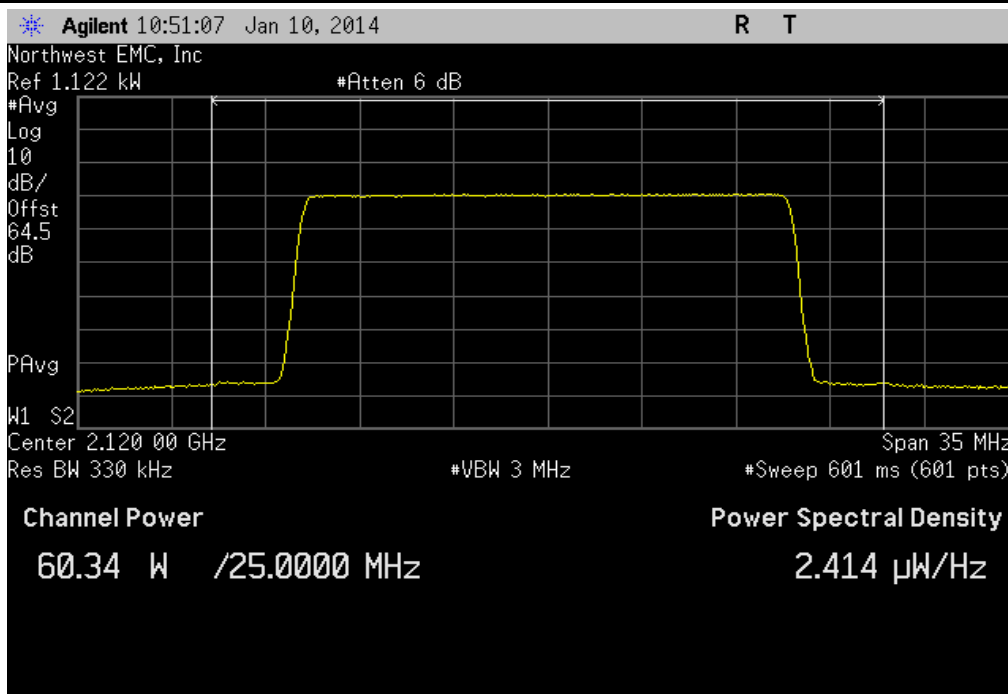
| Port B, LTE 20M, Low Channel |  |  |  |                       |              |        |  |
|------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                              |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                              |  |  |  | 60.51                 | See Comments | Pass   |  |



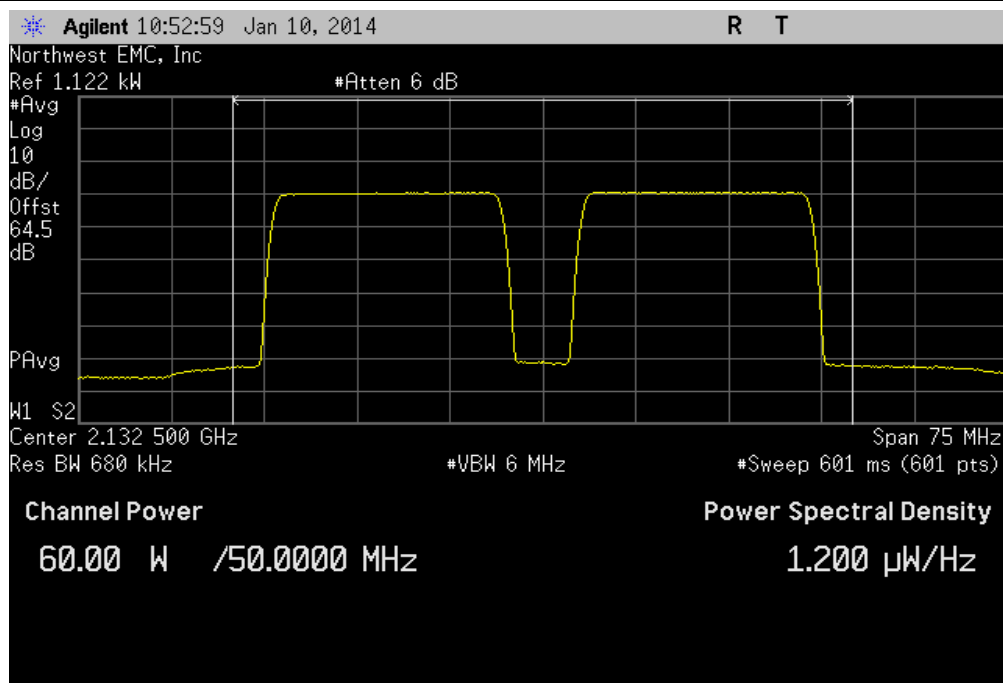
| Port B, LTE 20M, Mid Channel |  |  |  |                       |              |        |  |
|------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                              |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                              |  |  |  | 60.75                 | See Comments | Pass   |  |



| Port B, LTE 20M, High Channel |  |  |  |                       |              |        |  |
|-------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                               |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                               |  |  |  | 60.34                 | See Comments | Pass   |  |



| Port B, LTE 20M, Multi Channel |  |  |  |                       |              |        |  |
|--------------------------------|--|--|--|-----------------------|--------------|--------|--|
|                                |  |  |  | Measured Power<br>(W) | Limit        | Result |  |
|                                |  |  |  | 60                    | See Comments | Pass   |  |



## OCCUPIED BANDWIDTH

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 |
|-------------------|-----------------|--------|-----|-----------|----------|
| Power Sensor      | Agilent         | E4412A | SQE | 4/11/2012 | 24       |
| Power Meter       | Hewlett Packard | E4418A | SPA | 4/11/2012 | 24       |
| Signal Generator  | Agilent         | E8257D | TGU | 2/1/2012  | 36       |
| Spectrum Analyzer | Agilent         | E4440A | AFA | 6/15/2012 | 24       |

### TEST DESCRIPTION

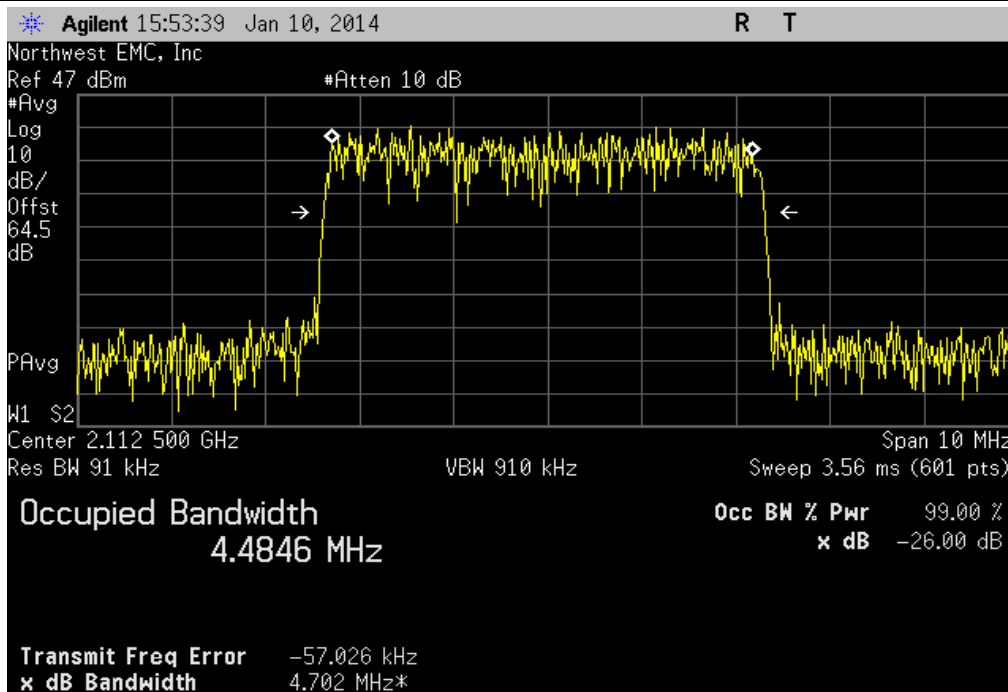
The carrier's -26 dB occupied bandwidth was measured. The plot was taken to show the occupied bandwidth is contained within the allowable transmit band.

A direct connection was made between the EUT and a spectrum analyzer. The occupied bandwidth was measured using the Occupied Bandwidth function of the spectrum analyzer.

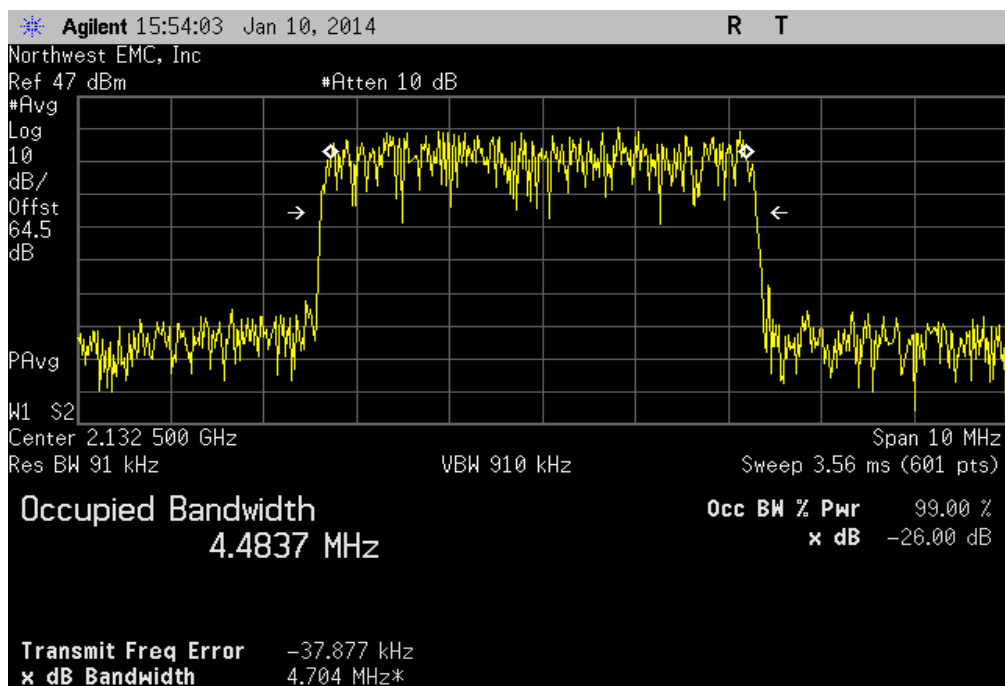
The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

|                               |   |                                                                                             |        |
|-------------------------------|---|---------------------------------------------------------------------------------------------|--------|
| EUT: AWS RRH                  |   | Work Order: KMWC0048                                                                        |        |
| Serial Number: U365000113     |   | Date: 01/13/14                                                                              |        |
| Customer: KMW Communications  |   | Temperature: 24.23°C                                                                        |        |
| Attendees: Edward Lee         |   | Humidity: 41%                                                                               |        |
| Project: None                 |   | Barometric Pres.: 1012                                                                      |        |
| Tested by: Jaemi Suh          |   | Job Site: OC10                                                                              |        |
| Power: 48 VDC                 |   |                                                                                             |        |
| TEST SPECIFICATIONS           |   | Test Method                                                                                 |        |
| FCC 27L:2014                  |   | ANSI/TIA/EIA-603-C-2004                                                                     |        |
| COMMENTS                      |   |                                                                                             |        |
| Power Level Settings: 60W.    |   |                                                                                             |        |
| DEVIATIONS FROM TEST STANDARD |   |                                                                                             |        |
| None                          |   |                                                                                             |        |
| Configuration #               | 1 | Signature  |        |
|                               |   | Value                                                                                       | Limit  |
|                               |   |                                                                                             | Result |
| PORT A                        |   |                                                                                             |        |
| LTE 5M                        |   |                                                                                             |        |
| Low Channel                   |   | 4.702 MHz                                                                                   | N/A    |
| Mid Channel                   |   | 4.704 MHz                                                                                   | N/A    |
| High Channel                  |   | 4.718 MHz                                                                                   | N/A    |
| LTE 10M                       |   |                                                                                             |        |
| Low Channel                   |   | 9.142 MHz                                                                                   | N/A    |
| Mid Channel                   |   | 9.226 MHz                                                                                   | N/A    |
| High Channel                  |   | 9.263 MHz                                                                                   | N/A    |
| LTE 15M                       |   |                                                                                             |        |
| Low Channel                   |   | 13.813 MHz                                                                                  | N/A    |
| Mid Channel                   |   | 13.850 MHz                                                                                  | N/A    |
| High Channel                  |   | 13.811 MHz                                                                                  | N/A    |
| LTE 20M                       |   |                                                                                             |        |
| Low Channel                   |   | 18.356 MHz                                                                                  | N/A    |
| Mid Channel                   |   | 18.453 MHz                                                                                  | N/A    |
| High Channel                  |   | 18.431 MHz                                                                                  | N/A    |
| PORT B                        |   |                                                                                             |        |
| LTE 5M                        |   |                                                                                             |        |
| Low Channel                   |   | 4.609 MHz                                                                                   | N/A    |
| Mid Channel                   |   | 4.644 MHz                                                                                   | N/A    |
| High Channel                  |   | 4.640 MHz                                                                                   | N/A    |
| LTE 10M                       |   |                                                                                             |        |
| Low Channel                   |   | 9.330 MHz                                                                                   | N/A    |
| Mid Channel                   |   | 9.221 MHz                                                                                   | N/A    |
| High Channel                  |   | 9.216 MHz                                                                                   | N/A    |
| LTE 15M                       |   |                                                                                             |        |
| Low Channel                   |   | 13.846 MHz                                                                                  | N/A    |
| Mid Channel                   |   | 13.805 MHz                                                                                  | N/A    |
| High Channel                  |   | 13.818 MHz                                                                                  | N/A    |
| LTE 20M                       |   |                                                                                             |        |
| Low Channel                   |   | 18.439 MHz                                                                                  | N/A    |
| Mid Channel                   |   | 18.291 MHz                                                                                  | N/A    |
| High Channel                  |   | 18.343 MHz                                                                                  | N/A    |

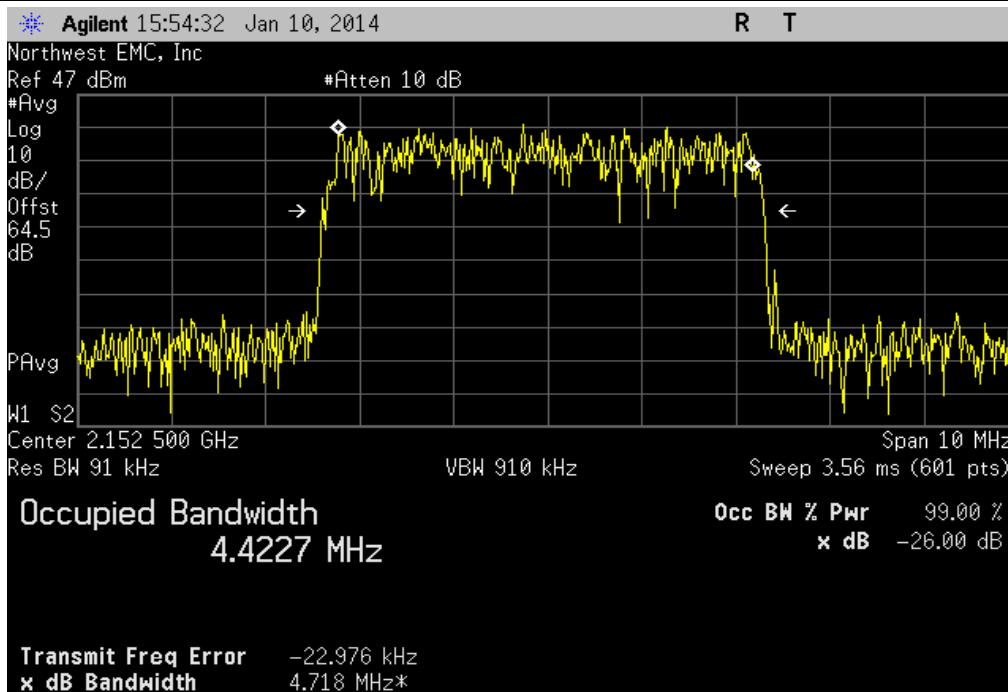
| PORT A, LTE 5M, Low Channel |  |  |  |           |       |        |  |
|-----------------------------|--|--|--|-----------|-------|--------|--|
|                             |  |  |  | Value     | Limit | Result |  |
|                             |  |  |  | 4.702 MHz | N/A   | N/A    |  |



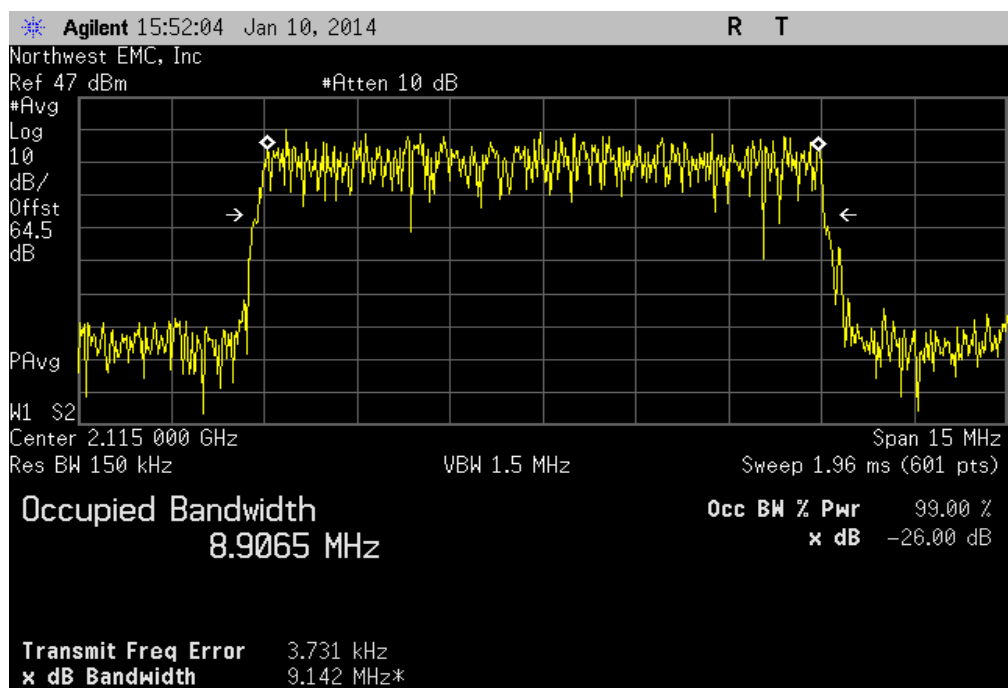
| PORT A, LTE 5M, Mid Channel |  |  |  |           |       |        |  |
|-----------------------------|--|--|--|-----------|-------|--------|--|
|                             |  |  |  | Value     | Limit | Result |  |
|                             |  |  |  | 4.704 MHz | N/A   | N/A    |  |



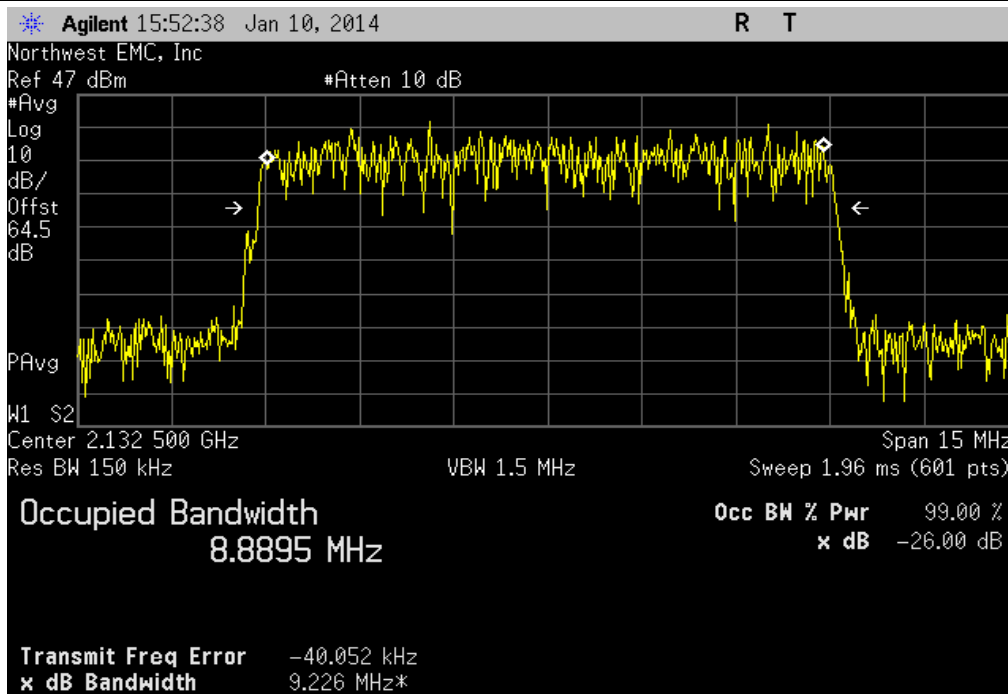
| PORT A, LTE 5M, High Channel |  |  |  |  |           |       |        |
|------------------------------|--|--|--|--|-----------|-------|--------|
|                              |  |  |  |  | Value     | Limit | Result |
|                              |  |  |  |  | 4.718 MHz | N/A   | N/A    |



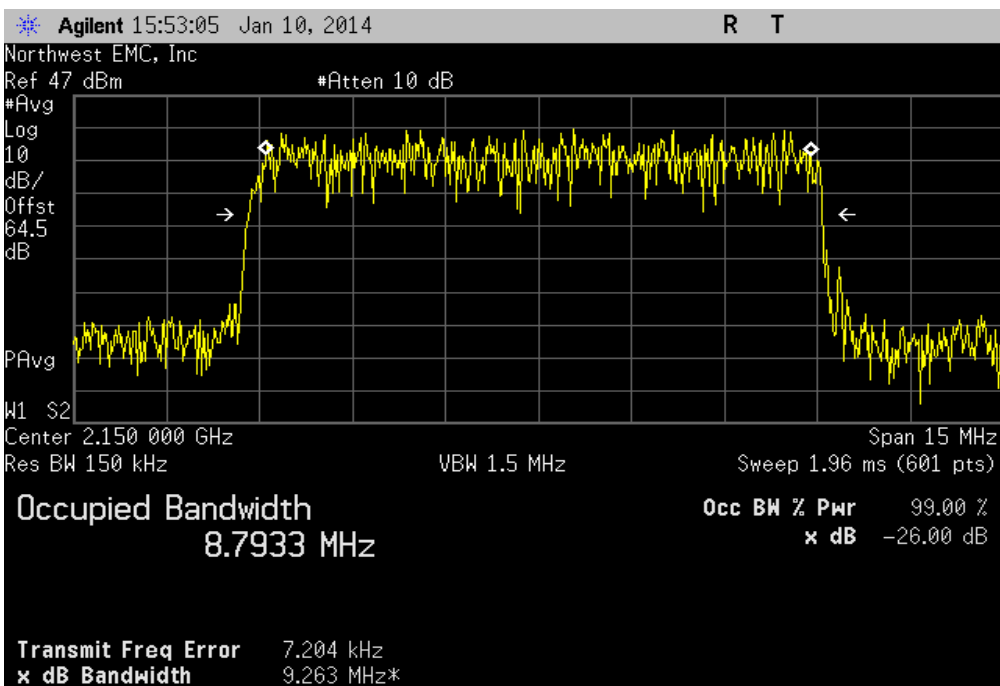
| PORT A, LTE 10M, Low Channel |  |  |  |  |           |       |        |
|------------------------------|--|--|--|--|-----------|-------|--------|
|                              |  |  |  |  | Value     | Limit | Result |
|                              |  |  |  |  | 9.142 MHz | N/A   | N/A    |



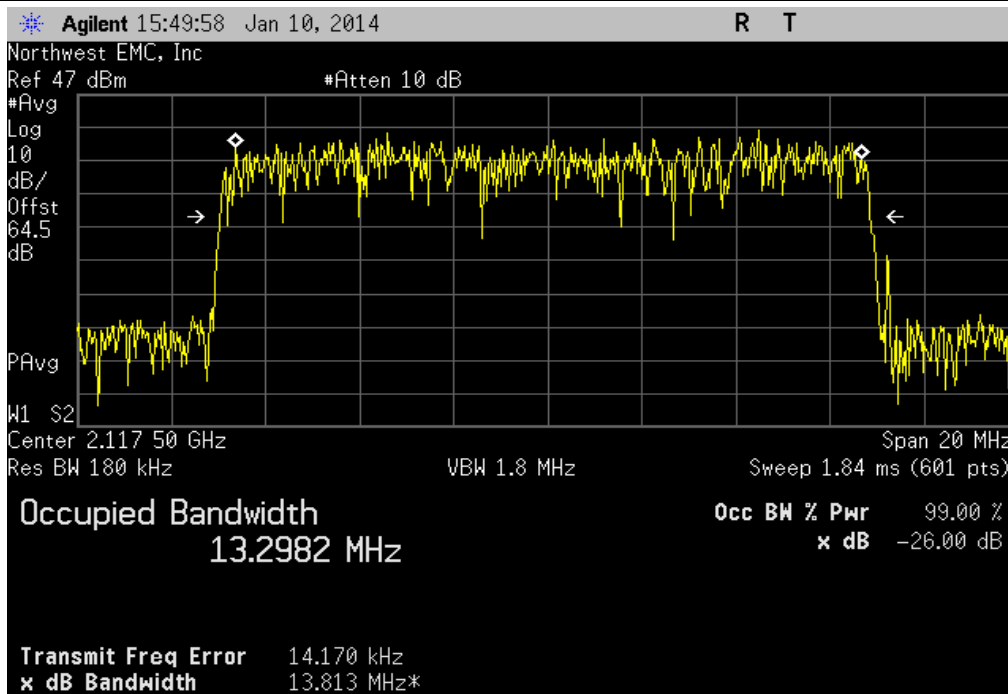
| PORT A, LTE 10M, Mid Channel |  |  |  |           |       |        |  |
|------------------------------|--|--|--|-----------|-------|--------|--|
|                              |  |  |  | Value     | Limit | Result |  |
|                              |  |  |  | 9.226 MHz | N/A   | N/A    |  |



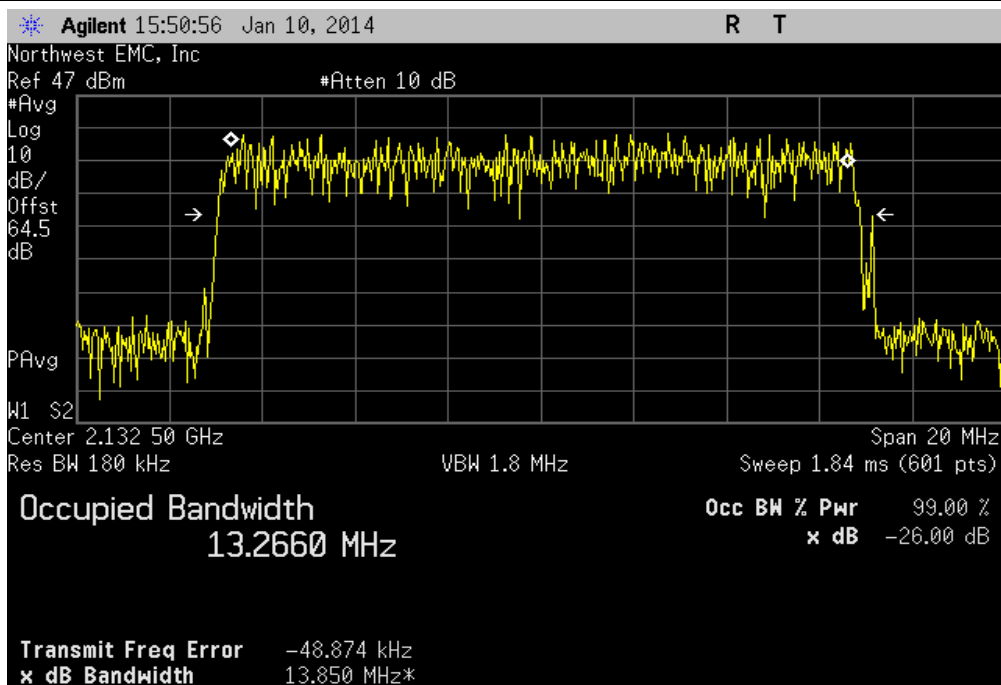
| PORT A, LTE 10M, High Channel |  |  |  |           |       |        |  |
|-------------------------------|--|--|--|-----------|-------|--------|--|
|                               |  |  |  | Value     | Limit | Result |  |
|                               |  |  |  | 9.263 MHz | N/A   | N/A    |  |



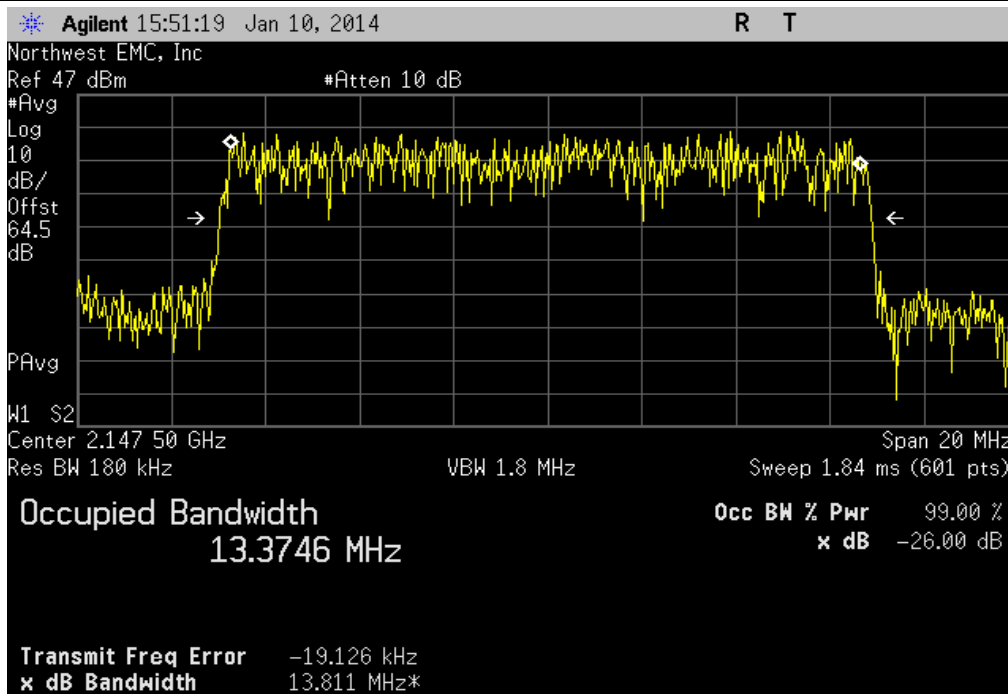
| PORT A, LTE 15M, Low Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 13.813 MHz | N/A   | N/A    |  |



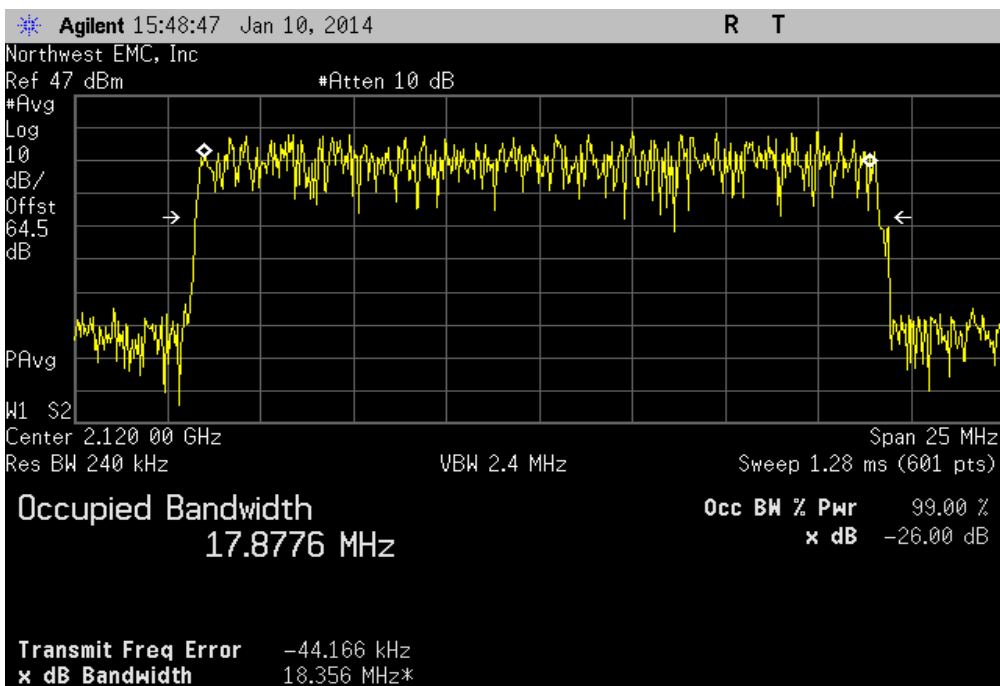
| PORT A, LTE 15M, Mid Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 13.850 MHz | N/A   | N/A    |  |



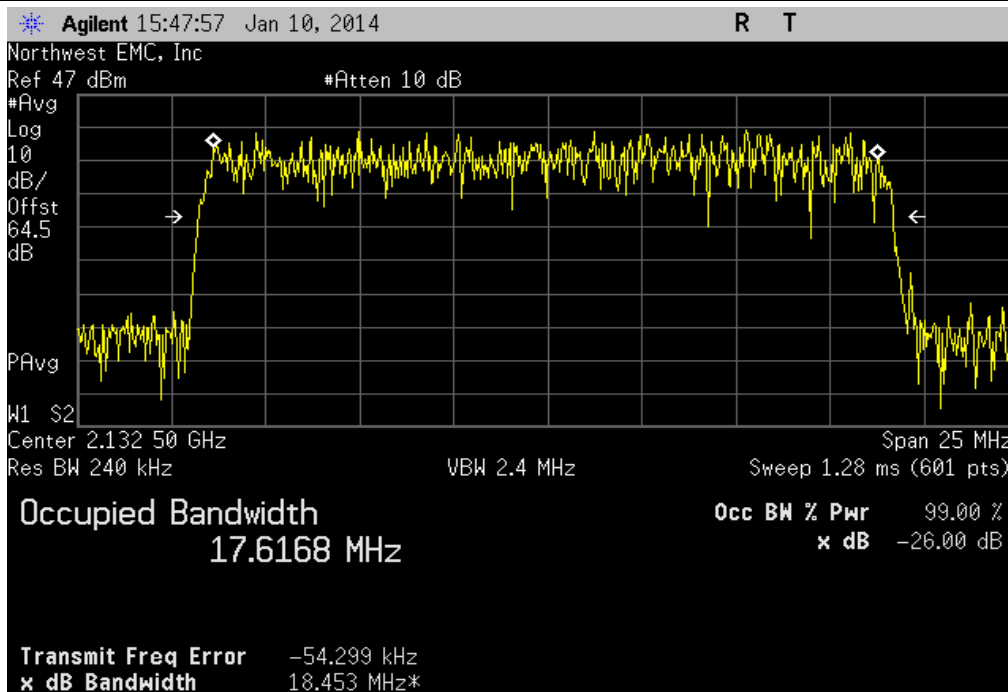
| PORT A, LTE 15M, High Channel |  |  |  |            |       |        |  |
|-------------------------------|--|--|--|------------|-------|--------|--|
|                               |  |  |  | Value      | Limit | Result |  |
|                               |  |  |  | 13.811 MHz | N/A   | N/A    |  |



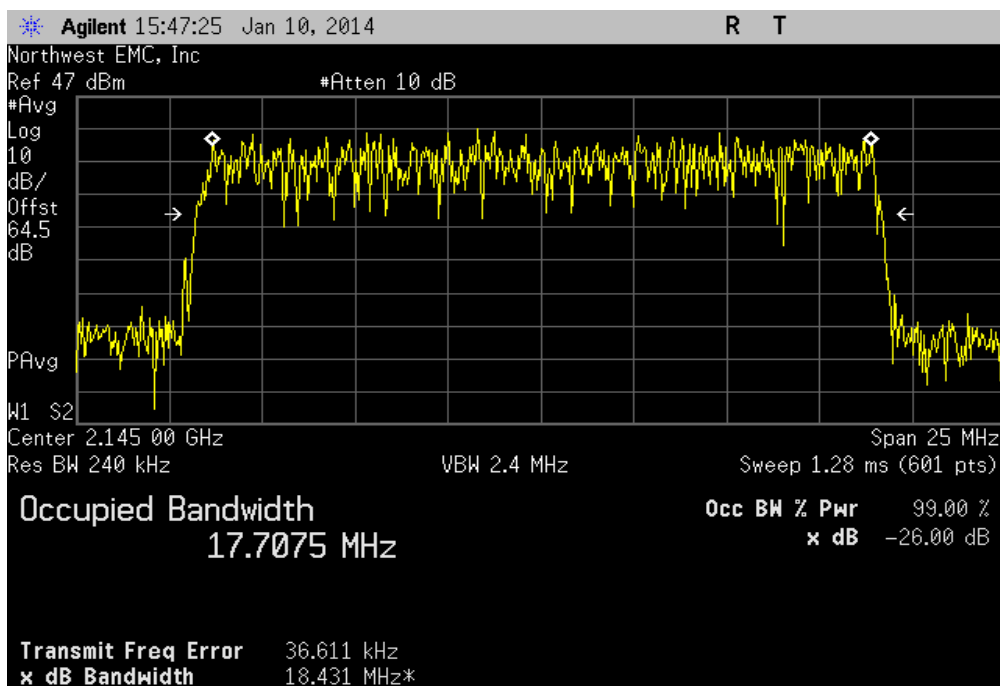
| PORT A, LTE 20M, Low Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 18.356 MHz | N/A   | N/A    |  |



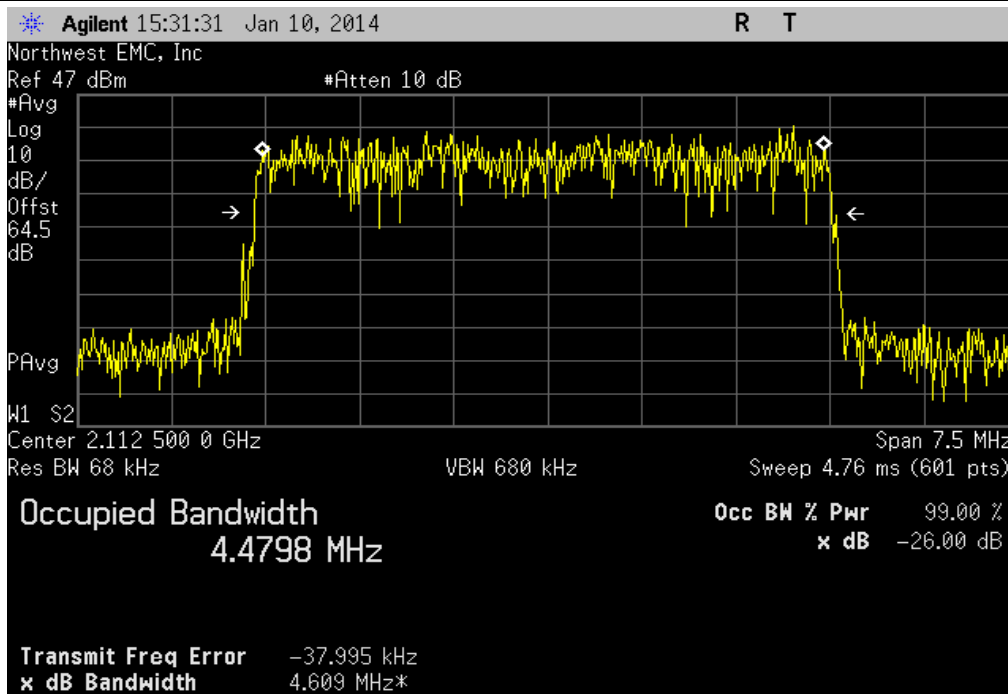
| PORT A, LTE 20M, Mid Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 18.453 MHz | N/A   | N/A    |  |



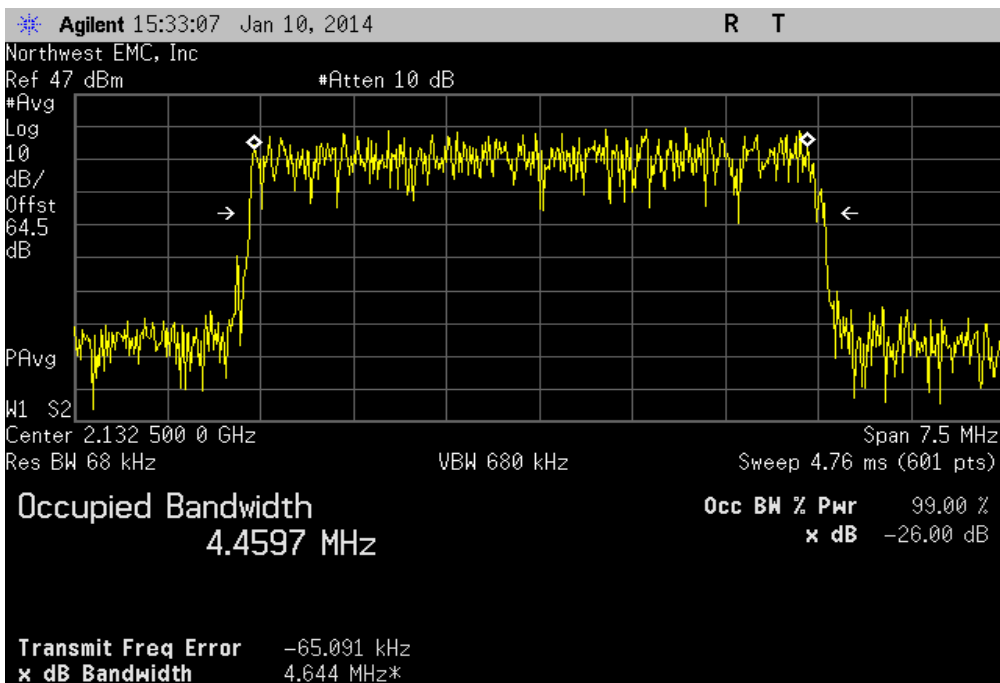
| PORT A, LTE 20M, High Channel |  |  |  |            |       |        |  |
|-------------------------------|--|--|--|------------|-------|--------|--|
|                               |  |  |  | Value      | Limit | Result |  |
|                               |  |  |  | 18.431 MHz | N/A   | N/A    |  |



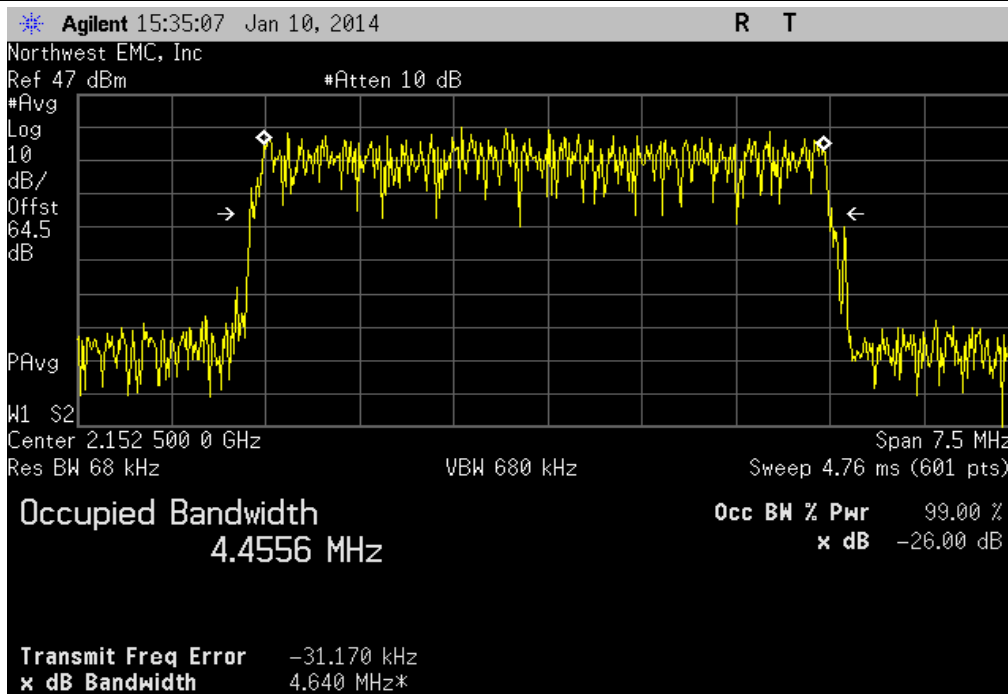
| PORT B, LTE 5M, Low Channel |  |  |  |           |       |        |  |
|-----------------------------|--|--|--|-----------|-------|--------|--|
|                             |  |  |  | Value     | Limit | Result |  |
|                             |  |  |  | 4.609 MHz | N/A   | N/A    |  |



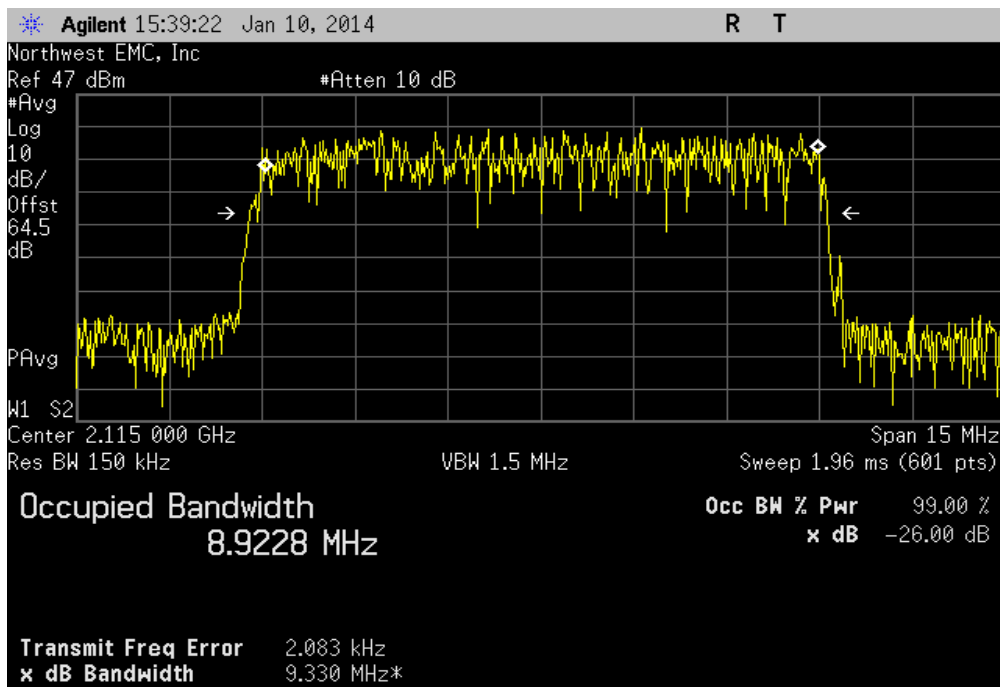
| PORT B, LTE 5M, Mid Channel |  |  |  |           |       |        |  |
|-----------------------------|--|--|--|-----------|-------|--------|--|
|                             |  |  |  | Value     | Limit | Result |  |
|                             |  |  |  | 4.644 MHz | N/A   | N/A    |  |



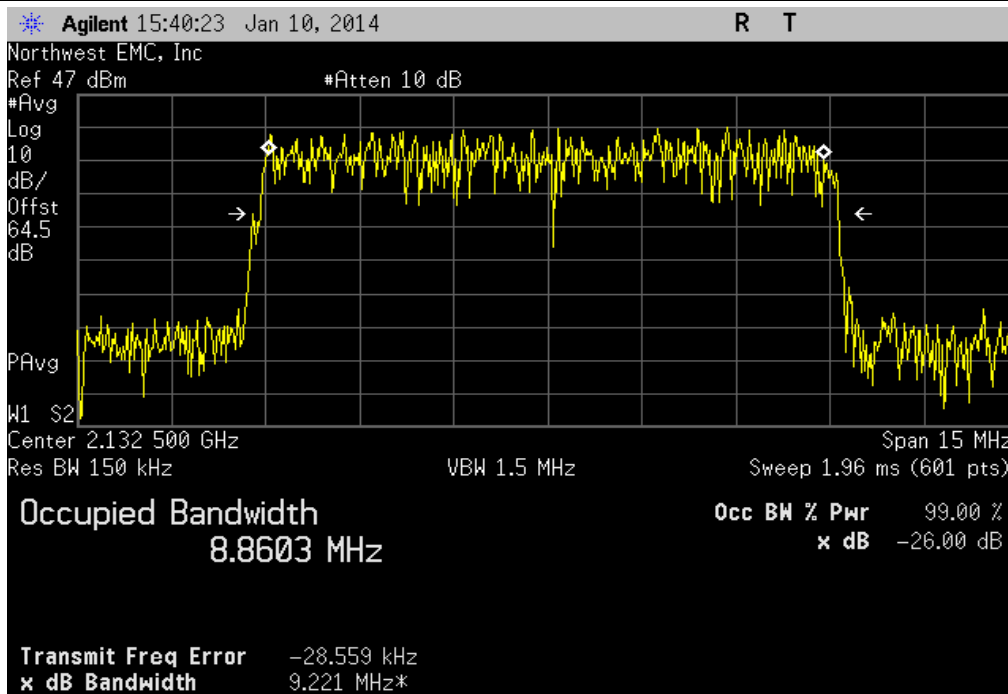
| PORT B, LTE 5M, High Channel |  |  |  |           |       |        |  |
|------------------------------|--|--|--|-----------|-------|--------|--|
|                              |  |  |  | Value     | Limit | Result |  |
|                              |  |  |  | 4.640 MHz | N/A   | N/A    |  |



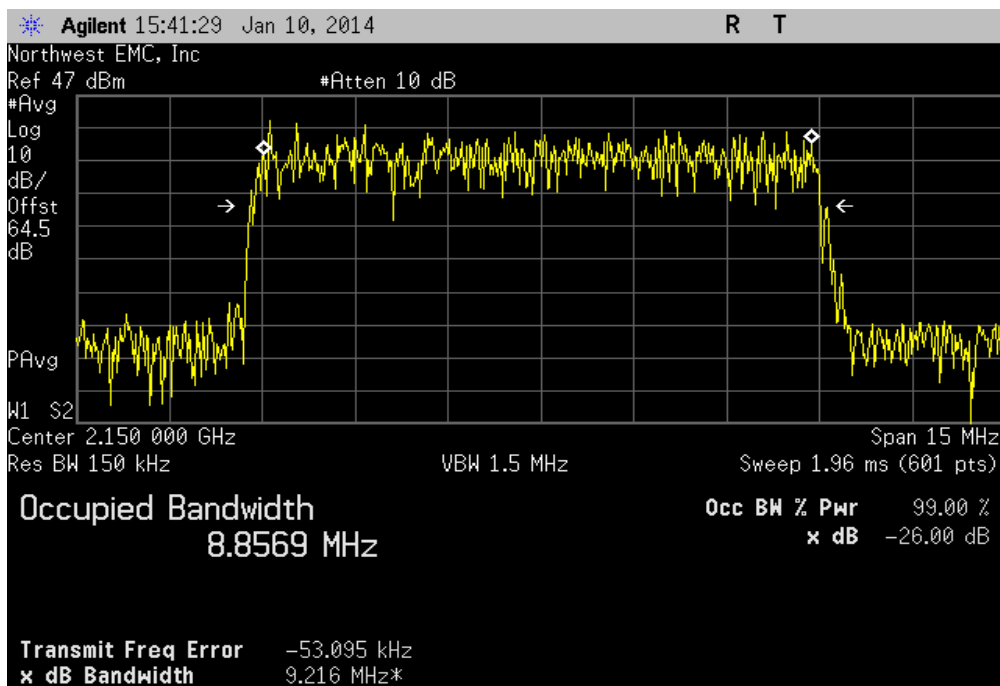
| PORT B, LTE 10M, Low Channel |  |  |  |           |       |        |  |
|------------------------------|--|--|--|-----------|-------|--------|--|
|                              |  |  |  | Value     | Limit | Result |  |
|                              |  |  |  | 9.330 MHz | N/A   | N/A    |  |



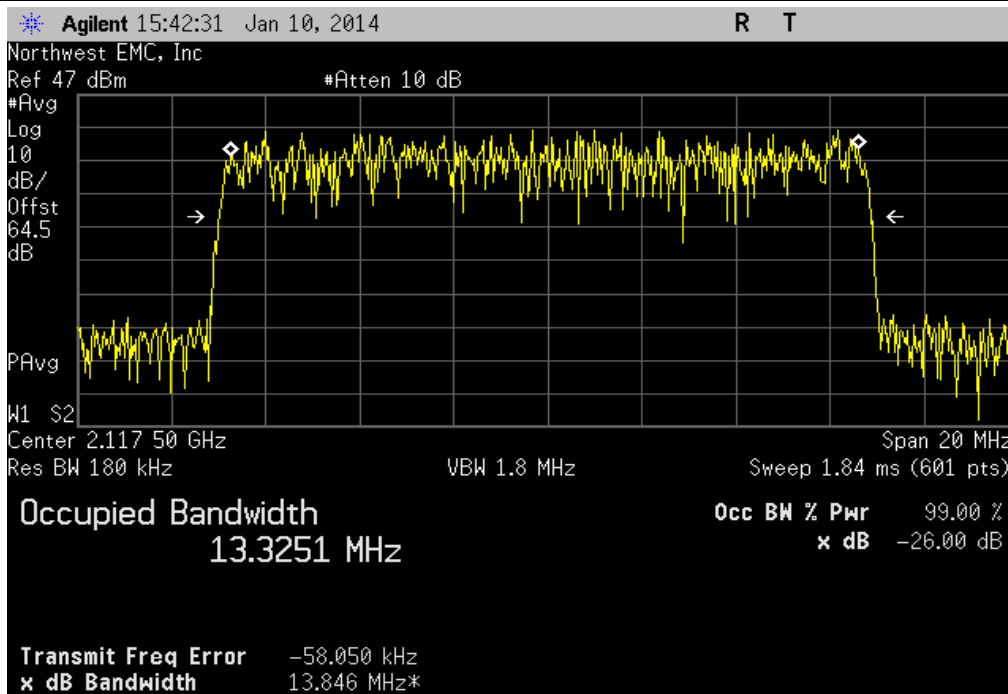
| PORT B, LTE 10M, Mid Channel |  |  |  |           |       |        |  |
|------------------------------|--|--|--|-----------|-------|--------|--|
|                              |  |  |  | Value     | Limit | Result |  |
|                              |  |  |  | 9.221 MHz | N/A   | N/A    |  |



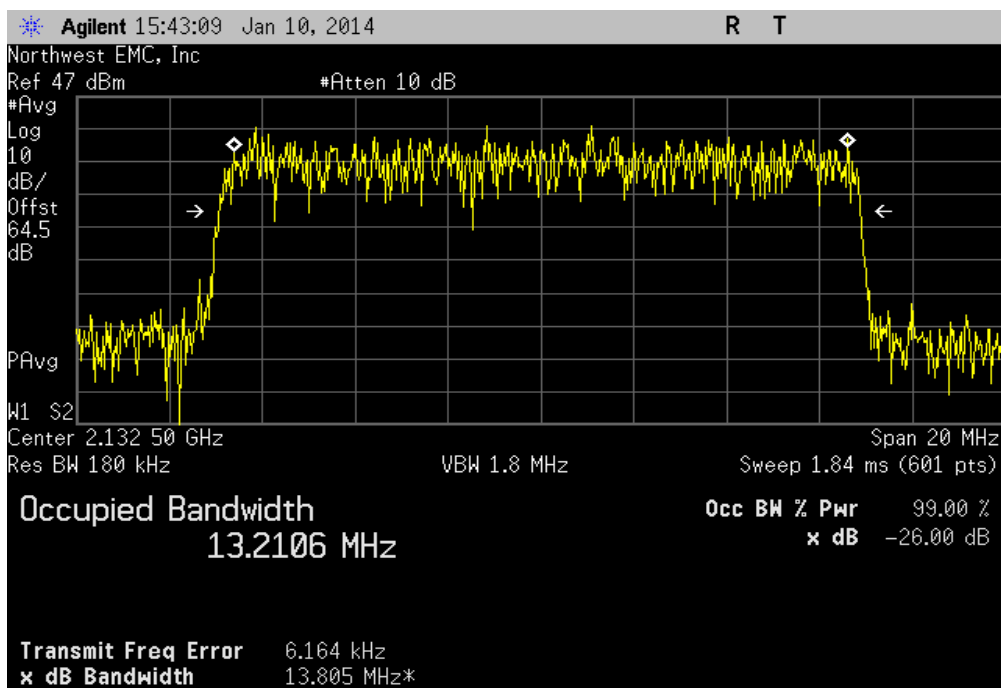
| PORT B, LTE 10M, High Channel |  |  |  |           |       |        |  |
|-------------------------------|--|--|--|-----------|-------|--------|--|
|                               |  |  |  | Value     | Limit | Result |  |
|                               |  |  |  | 9.216 MHz | N/A   | N/A    |  |



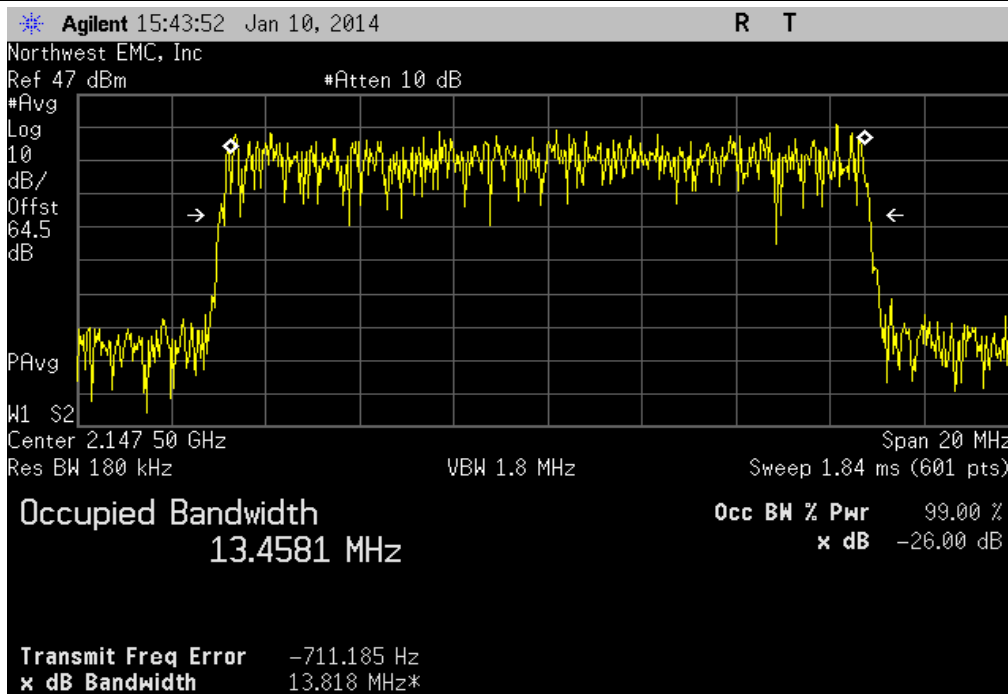
| PORT B, LTE 15M, Low Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 13.846 MHz | N/A   | N/A    |  |



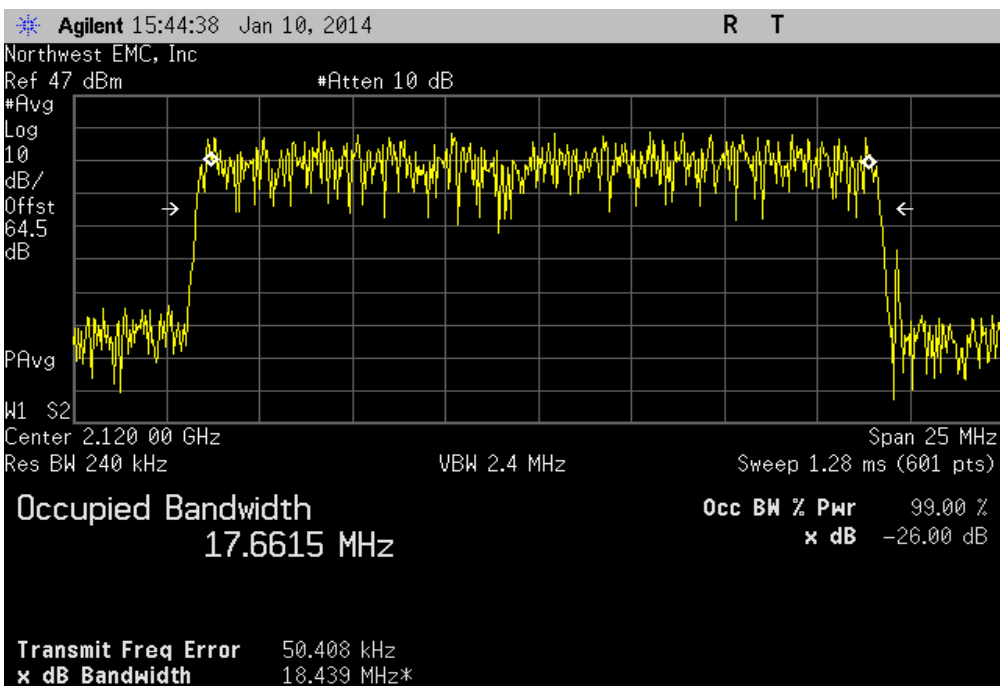
| PORT B, LTE 15M, Mid Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 13.805 MHz | N/A   | N/A    |  |



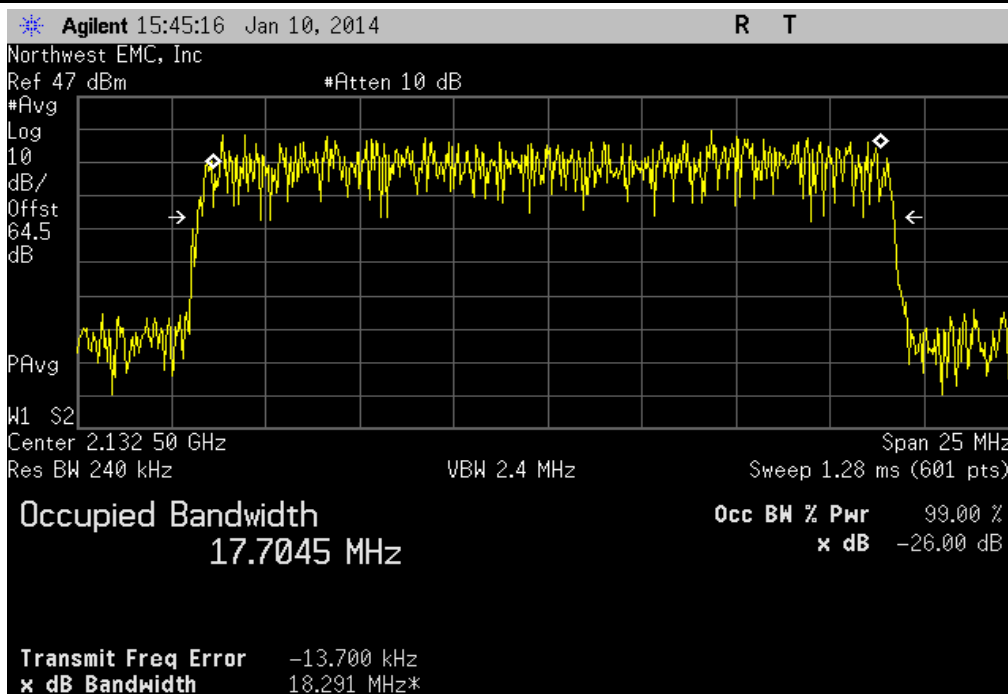
| PORT B, LTE 15M, High Channel |  |  |  |            |       |        |  |
|-------------------------------|--|--|--|------------|-------|--------|--|
|                               |  |  |  | Value      | Limit | Result |  |
|                               |  |  |  | 13.818 MHz | N/A   | N/A    |  |



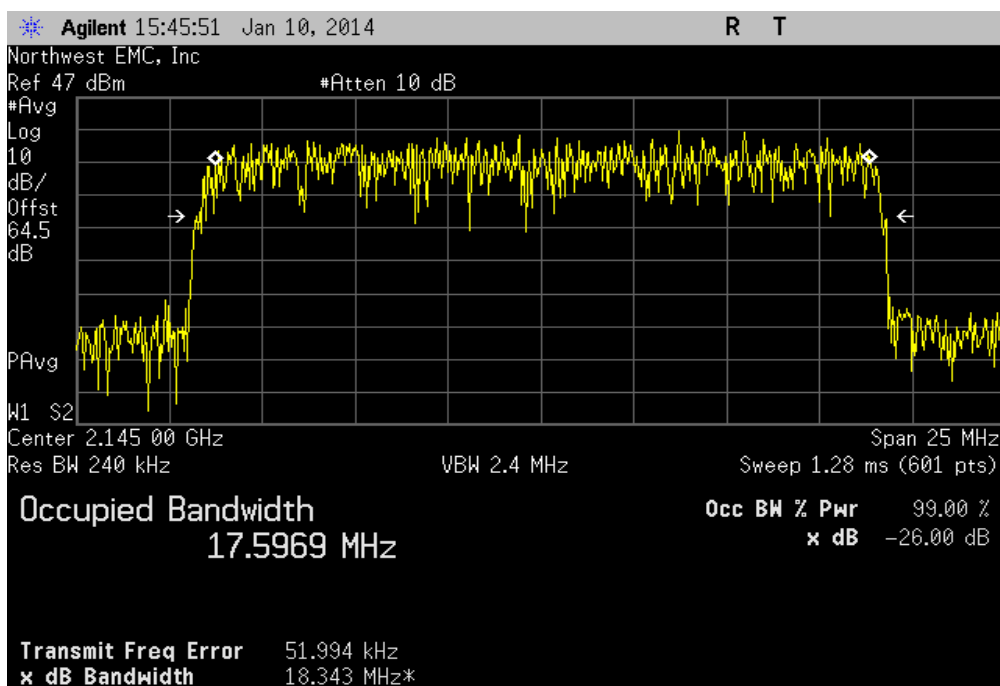
| PORT B, LTE 20M, Low Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 18.439 MHz | N/A   | N/A    |  |



| PORT B, LTE 20M, Mid Channel |  |  |  |            |       |        |  |
|------------------------------|--|--|--|------------|-------|--------|--|
|                              |  |  |  | Value      | Limit | Result |  |
|                              |  |  |  | 18.291 MHz | N/A   | N/A    |  |



| PORT B, LTE 20M, High Channel |  |  |  |            |       |        |  |
|-------------------------------|--|--|--|------------|-------|--------|--|
|                               |  |  |  | Value      | Limit | Result |  |
|                               |  |  |  | 18.343 MHz | N/A   | N/A    |  |



## EMISSION MASK

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                   | E8257D             | TGU | 2/1/2012  | 36       |
| Power Sensor                  | Hewlett Packard           | 8481               | SQP | 4/11/2012 | 24       |
| Power Meter                   | Hewlett Packard           | E4418A             | SPA | 4/11/2012 | 24       |
| Chamber, Temperature/Humidity | Cincinnati Sub Zero (CSZ) | ZPHS-32-3.5-SCT/AC | TBE | NCR       | 0        |
| Spectrum Analyzer             | Agilent                   | E4446A             | AAY | 2/22/2013 | 24       |

### TEST DESCRIPTION

The Emissions Mask was measured following the guidance in 3GPP TS36.104 V12.2.0 Table 6.6.3.1-6. Testing was done to the lower and upper band edges according to the standard.

A spectrum analyzer was used to measure the emission mask. A spectrum analyzer channel power function using as RMS Average detector with no video filtering was used with an integration bandwidth equal to that called out in the table.

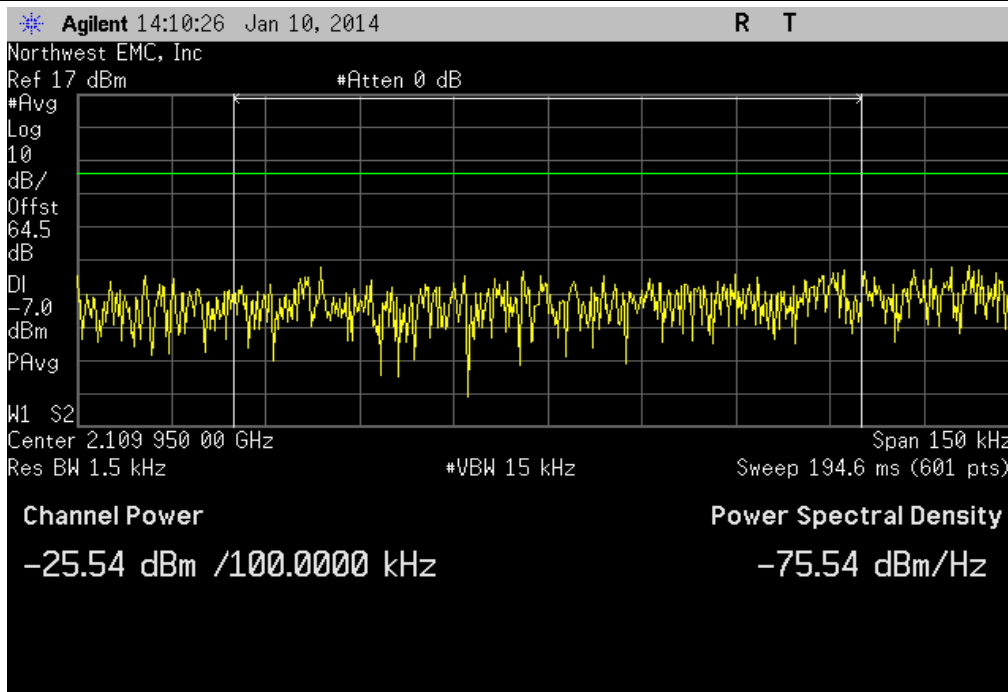
## EMISSION MASK

|                               |   |                                                                                             |              |
|-------------------------------|---|---------------------------------------------------------------------------------------------|--------------|
| EUT: AWS RRH                  |   | Work Order: KMWC0048                                                                        |              |
| Serial Number: U365000113     |   | Date: 01/13/14                                                                              |              |
| Customer: KMW Communications  |   | Temperature: 23.4°C                                                                         |              |
| Attendees: Edward Lee         |   | Humidity: 42%                                                                               |              |
| Project: None                 |   | Barometric Pres.: 1012                                                                      |              |
| Tested by: Jaemi Suh          |   | Job Site: OC10                                                                              |              |
| Power: 48VDC                  |   |                                                                                             |              |
| TEST SPECIFICATIONS           |   | Test Method                                                                                 |              |
| FCC 27L:2014                  |   | ANSI/TIA/EIA-603-C-2004                                                                     |              |
|                               |   |                                                                                             |              |
| COMMENTS                      |   |                                                                                             |              |
| Power Level Settings: 60W     |   |                                                                                             |              |
| DEVIATIONS FROM TEST STANDARD |   |                                                                                             |              |
| None                          |   |                                                                                             |              |
|                               |   |                                                                                             |              |
| Configuration #               | 1 | Signature  |              |
|                               |   | Value                                                                                       | Limit Result |
| Port A                        |   |                                                                                             |              |
| LTE 5M                        |   |                                                                                             |              |
| Single Carrier                |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -25.54 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -37.06 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.24 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -27.34 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -35.93 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -28.43 dBm                                                                                  | -13 dBm Pass |
| Multi Carrier                 |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -31.24 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -35.61 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.48 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -31.27 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -34.56 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -27.29 dBm                                                                                  | -13 dBm Pass |
| LTE 10M                       |   |                                                                                             |              |
| Single Carrier                |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -30.37 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -36.32 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.18 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -32.30 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -36.38 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -28.68 dBm                                                                                  | -13 dBm Pass |
| Multi Carrier                 |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -33.40 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -35.30 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.09 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -32.07 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -33.87 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -26.19 dBm                                                                                  | -13 dBm Pass |
| LTE 15M                       |   |                                                                                             |              |
| Single Carrier                |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -34.11 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -35.91 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.31 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -32.39 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -35.18 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -28.25 dBm                                                                                  | -13 dBm Pass |
| Multi Carrier                 |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -33.30 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -34.16 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.36 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -31.61 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -34.76 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -27.70 dBm                                                                                  | -13 dBm Pass |
| LTE 20M                       |   |                                                                                             |              |
| Single Carrier                |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -34.52 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -36.35 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.37 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -33.53 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -35.58 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -28.81 dBm                                                                                  | -13 dBm Pass |
| Multi Carrier                 |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -34.02 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -35.85 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.40 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -33.22 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -35.86 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -27.06 dBm                                                                                  | -13 dBm Pass |
| Port B                        |   |                                                                                             |              |
| LTE 5M                        |   |                                                                                             |              |
| Single Carrier                |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -25.81 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -36.40 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.08 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -25.72 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -35.22 dBm                                                                                  | -14 dBm Pass |
| Right Band Edge 2165.05 MHz   |   | -26.53 dBm                                                                                  | -13 dBm Pass |
| Multi Carrier                 |   |                                                                                             |              |
| Left Band Edge 2109.95 MHz    |   | -31.31 dBm                                                                                  | -7 dBm Pass  |
| Left Band Edge 2104.95 MHz    |   | -35.51 dBm                                                                                  | -14 dBm Pass |
| Left Band Edge 2099.5 MHz     |   | -30.31 dBm                                                                                  | -13 dBm Pass |
| Right Band Edge 2155.05 MHz   |   | -31.48 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2160.05 MHz   |   | -34.04 dBm                                                                                  | -7 dBm Pass  |
| Right Band Edge 2165.05 MHz   |   | -25.14 dBm                                                                                  | -13 dBm Pass |

|         |                             |            |         |      |
|---------|-----------------------------|------------|---------|------|
| LTE 10M |                             |            |         |      |
| LTE 10M | Single Carrier              |            |         |      |
|         | Left Band Edge 2109.95 MHz  | -28.20 dBm | -7 dBm  | Pass |
|         | Left Band Edge 2104.95 MHz  | -35.44 dBm | -14 dBm | Pass |
|         | Left Band Edge 2099.5 MHz   | -30.14 dBm | -13 dBm | Pass |
|         | Right Band Edge 2155.05 MHz | -32.07 dBm | -7 dBm  | Pass |
|         | Right Band Edge 2160.05 MHz | -35.42 dBm | -14 dBm | Pass |
|         | Right Band Edge 2165.05 MHz | -26.81 dBm | -13 dBm | Pass |
|         | Multi Carrier               |            |         |      |
|         | Left Band Edge 2109.95 MHz  | -33.11 dBm | -7 dBm  | Pass |
|         | Left Band Edge 2104.95 MHz  | -36.27 dBm | -14 dBm | Pass |
|         | Left Band Edge 2099.5 MHz   | -30.33 dBm | -13 dBm | Pass |
|         | Right Band Edge 2155.05 MHz | -33.31 dBm | -7 dBm  | Pass |
|         | Right Band Edge 2160.05 MHz | -34.71 dBm | -14 dBm | Pass |
|         | Right Band Edge 2165.05 MHz | -25.18 dBm | -13 dBm | Pass |
| LTE 15M | Single Carrier              |            |         |      |
|         | Left Band Edge 2109.95 MHz  | -33.69 dBm | -7 dBm  | Pass |
|         | Left Band Edge 2104.95 MHz  | -36.13 dBm | -14 dBm | Pass |
|         | Left Band Edge 2099.5 MHz   | -30.35 dBm | -13 dBm | Pass |
|         | Right Band Edge 2155.05 MHz | -32.02 dBm | -7 dBm  | Pass |
|         | Right Band Edge 2160.05 MHz | -35.09 dBm | -14 dBm | Pass |
|         | Right Band Edge 2165.05 MHz | -27.19 dBm | -13 dBm | Pass |
|         | Multi Carrier               |            |         |      |
|         | Left Band Edge 2109.95 MHz  | -33.65 dBm | -7 dBm  | Pass |
|         | Left Band Edge 2104.95 MHz  | -35.64 dBm | -14 dBm | Pass |
|         | Left Band Edge 2099.5 MHz   | -30.12 dBm | -13 dBm | Pass |
|         | Right Band Edge 2155.05 MHz | -32.84 dBm | -7 dBm  | Pass |
|         | Right Band Edge 2160.05 MHz | -34.39 dBm | -14 dBm | Pass |
|         | Right Band Edge 2165.05 MHz | -25.39 dBm | -13 dBm | Pass |
| LTE 20M | Single Carrier              |            |         |      |
|         | Left Band Edge 2109.95 MHz  | -33.07 dBm | -7 dBm  | Pass |
|         | Left Band Edge 2104.95 MHz  | -36.81 dBm | -14 dBm | Pass |
|         | Left Band Edge 2099.5 MHz   | -30.26 dBm | -13 dBm | Pass |
|         | Right Band Edge 2155.05 MHz | -33.90 dBm | -7 dBm  | Pass |
|         | Right Band Edge 2160.05 MHz | -36.00 dBm | -14 dBm | Pass |
|         | Right Band Edge 2165.05 MHz | -25.98 dBm | -13 dBm | Pass |
|         | Multi Carrier               |            |         |      |
|         | Left Band Edge 2109.95 MHz  | -34.33 dBm | -7 dBm  | Pass |
|         | Left Band Edge 2104.95 MHz  | -35.69 dBm | -14 dBm | Pass |
|         | Left Band Edge 2099.5 MHz   | -30.28 dBm | -13 dBm | Pass |
|         | Right Band Edge 2155.05 MHz | -33.51 dBm | -7 dBm  | Pass |
|         | Right Band Edge 2160.05 MHz | -33.72 dBm | -14 dBm | Pass |
|         | Right Band Edge 2165.05 MHz | -25.23 dBm | -13 dBm | Pass |

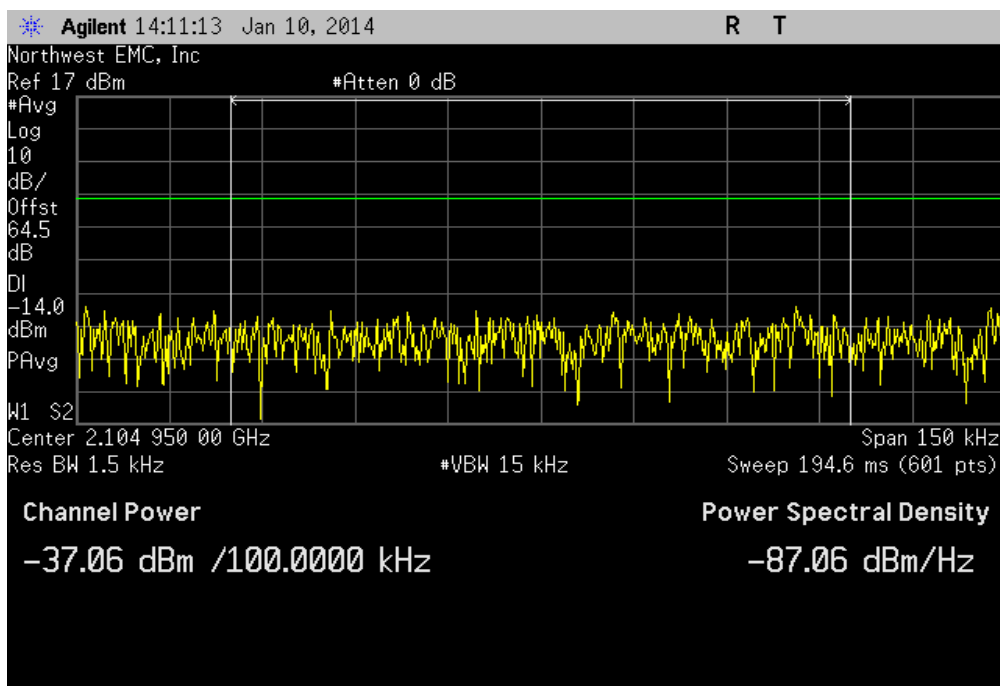
Port A, LTE 5M, Single Carrier, Left Band Edge 2109.95 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -25.54 dBm | -7 dBm | Pass   |



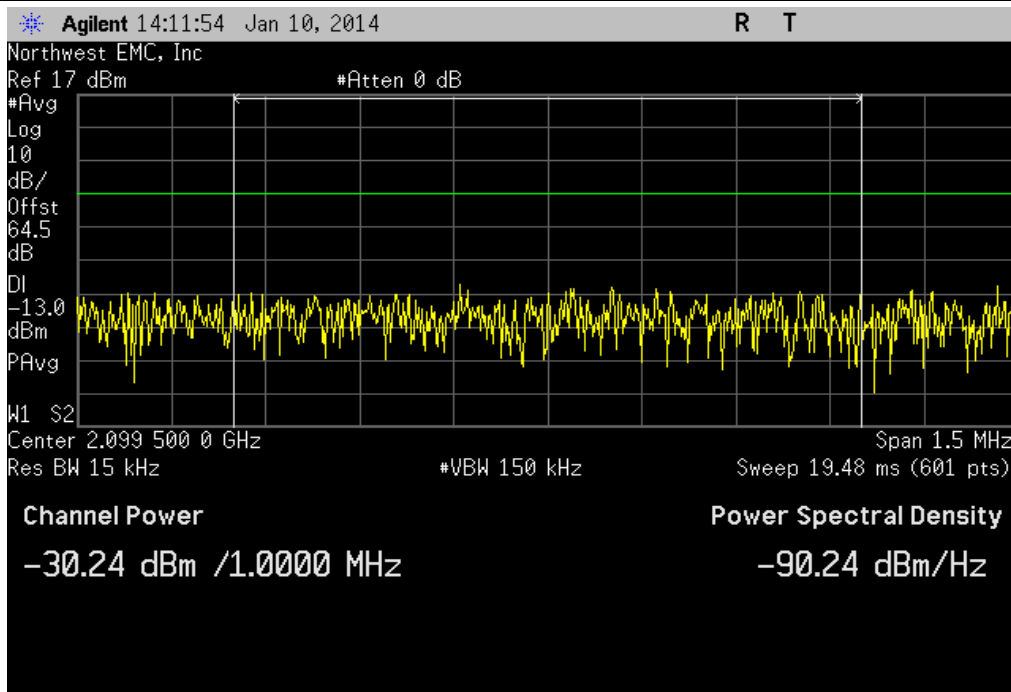
Port A, LTE 5M, Single Carrier, Left Band Edge 2104.95 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -37.06 dBm | -14 dBm | Pass   |



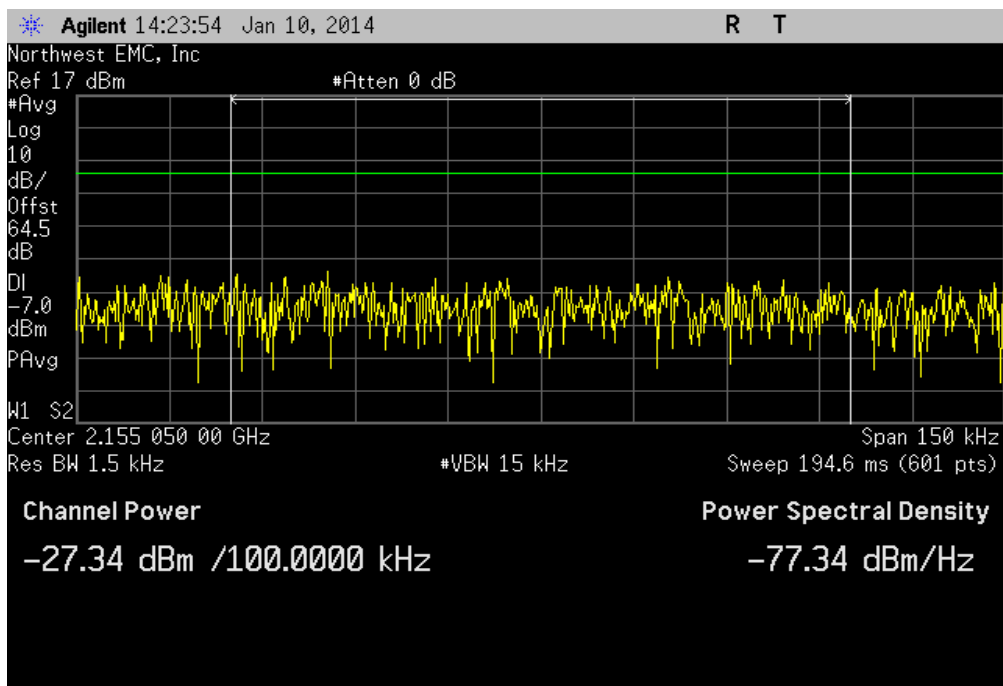
Port A, LTE 5M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.24 dBm | -13 dBm | Pass   |

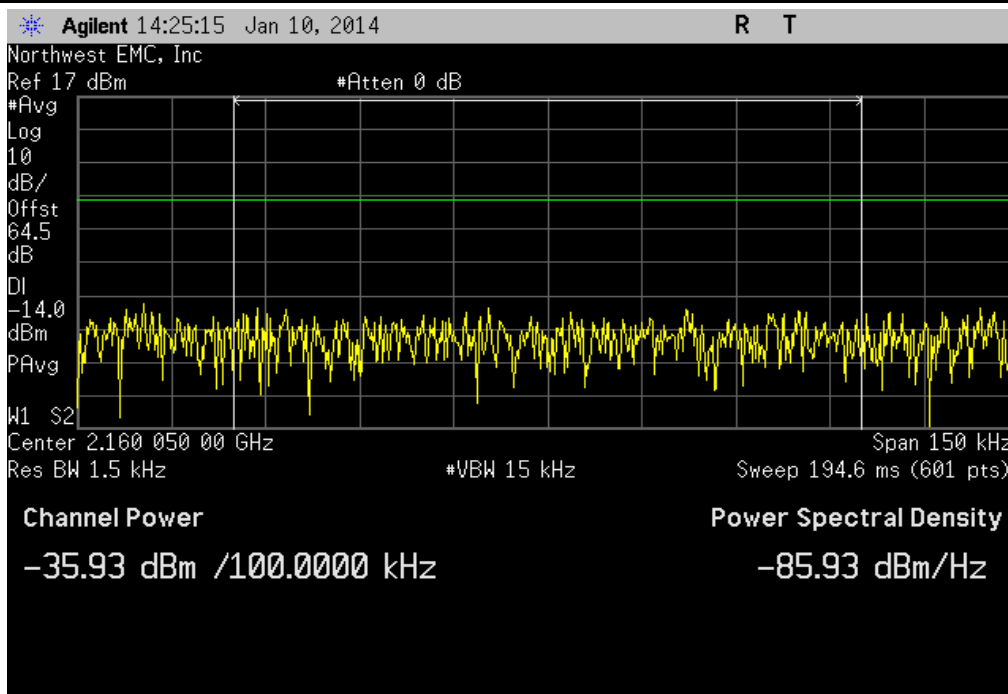


Port A, LTE 5M, Single Carrier, Right Band Edge 2155.05 MHz

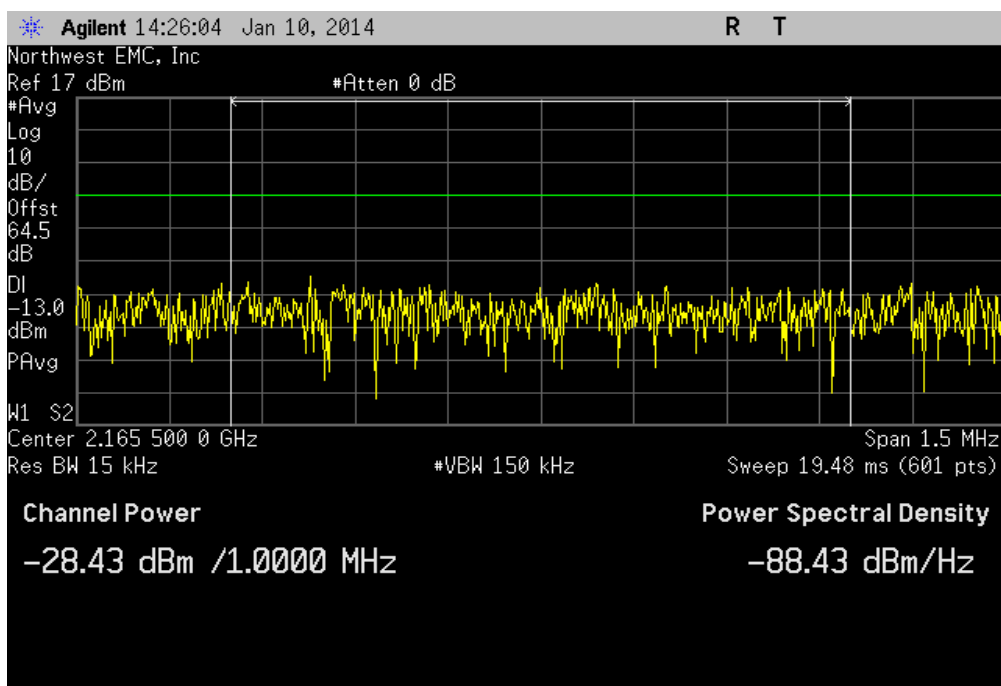
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -27.34 dBm | -7 dBm | Pass   |



| Port A, LTE 5M, Single Carrier, Right Band Edge 2160.05 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                             |  |  |  |  | Value      | Limit   | Result |
|                                                             |  |  |  |  | -35.93 dBm | -14 dBm | Pass   |

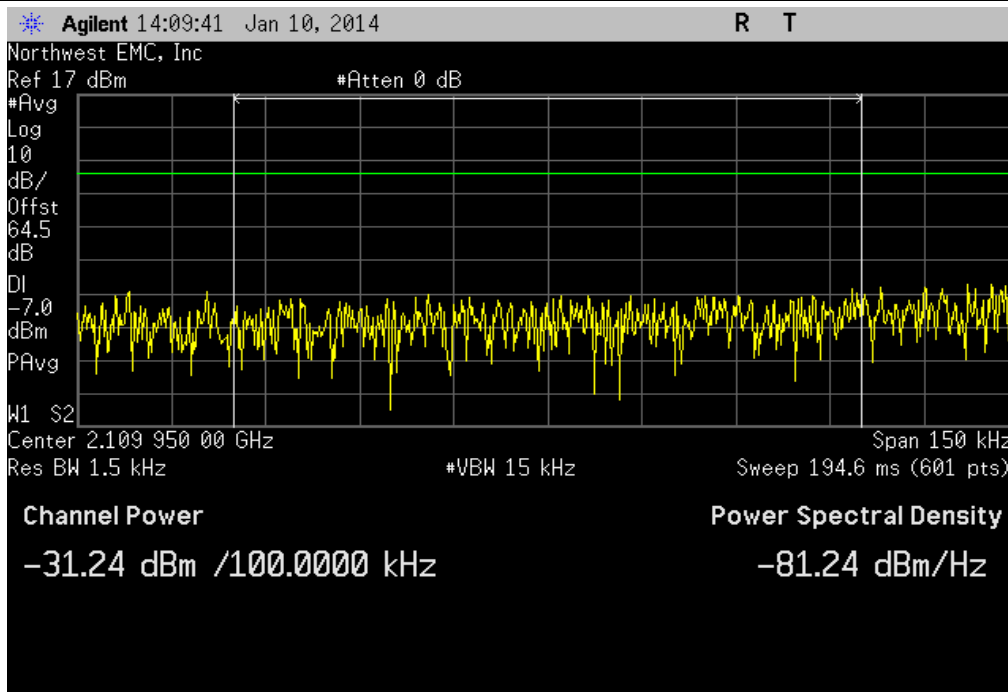


| Port A, LTE 5M, Single Carrier, Right Band Edge 2165.05 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                             |  |  |  |  | Value      | Limit   | Result |
|                                                             |  |  |  |  | -28.43 dBm | -13 dBm | Pass   |



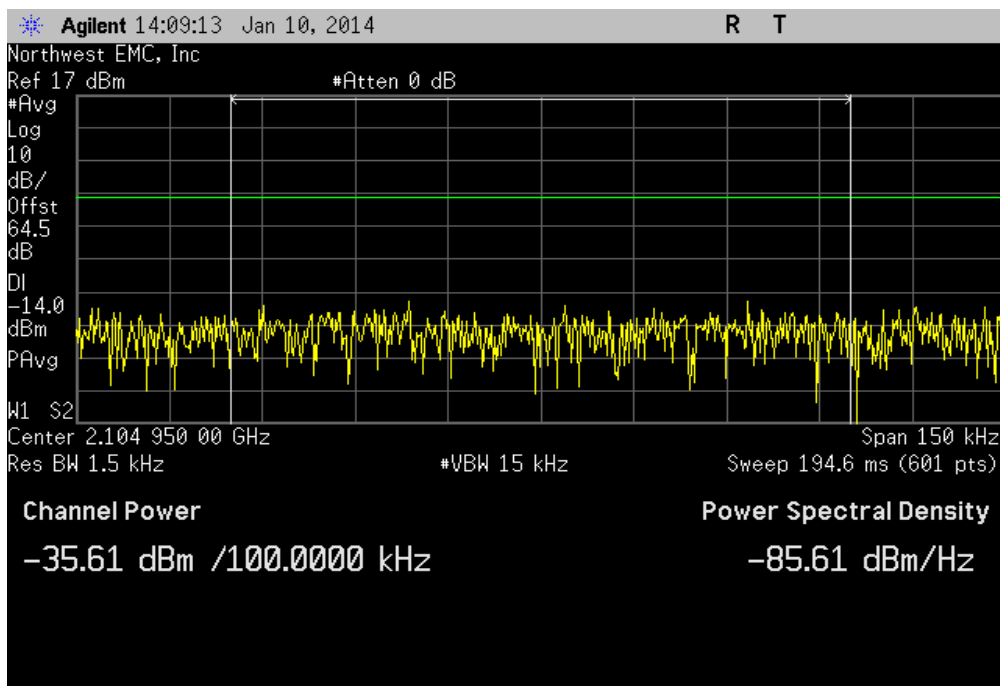
Port A, LTE 5M, Multi Carrier, Left Band Edge 2109.95 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -31.24 dBm | -7 dBm | Pass   |



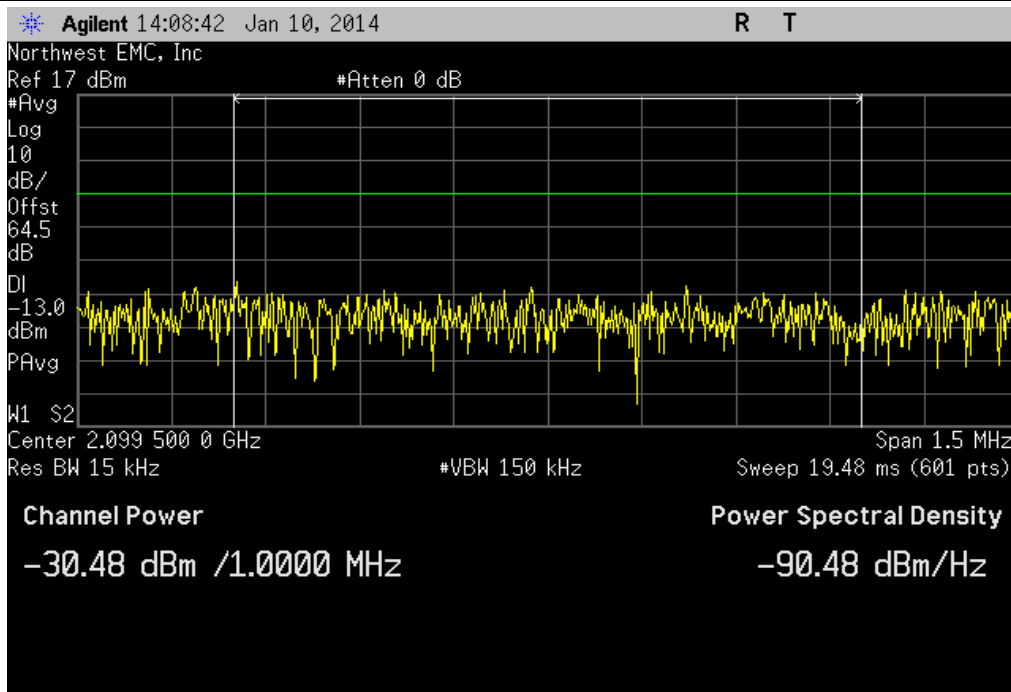
Port A, LTE 5M, Multi Carrier, Left Band Edge 2104.95 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -35.61 dBm | -14 dBm | Pass   |



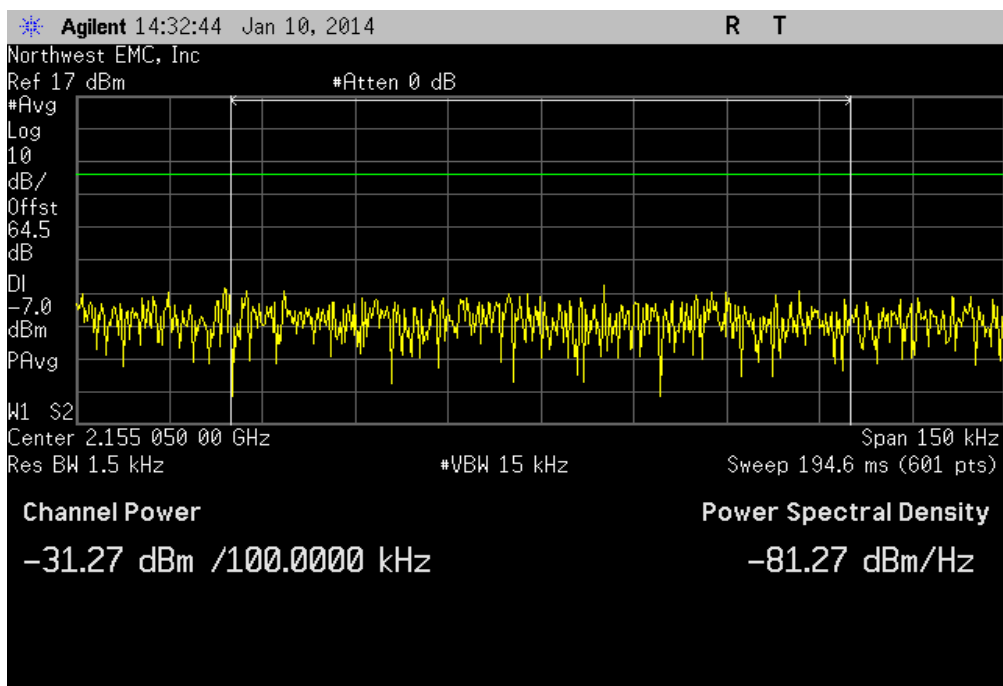
Port A, LTE 5M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.48 dBm | -13 dBm | Pass   |



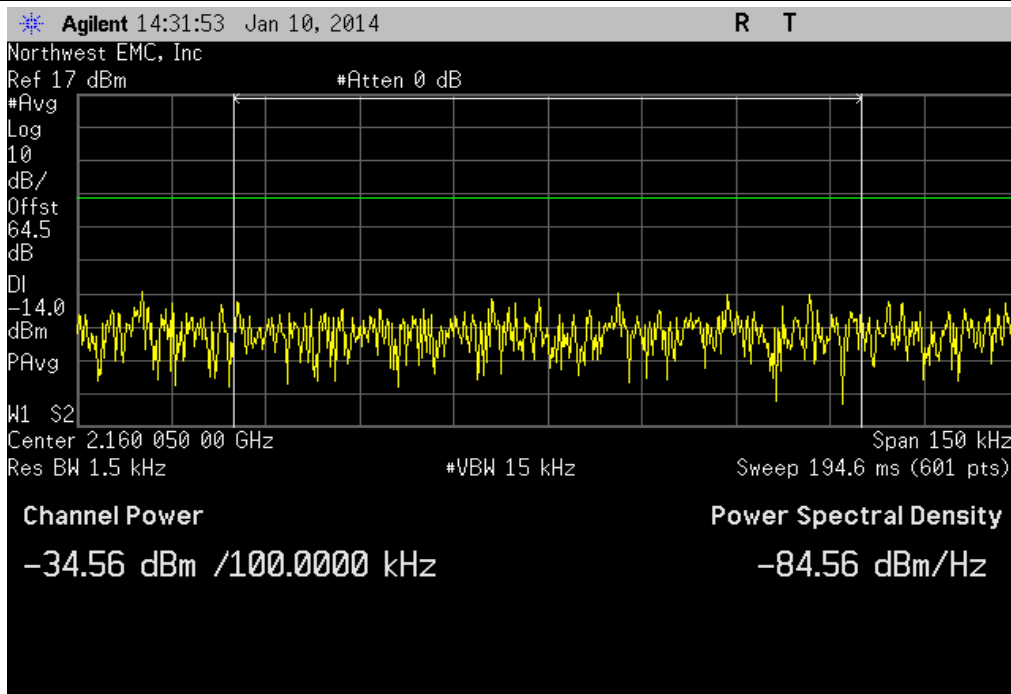
Port A, LTE 5M, Multi Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -31.27 dBm | -7 dBm | Pass   |



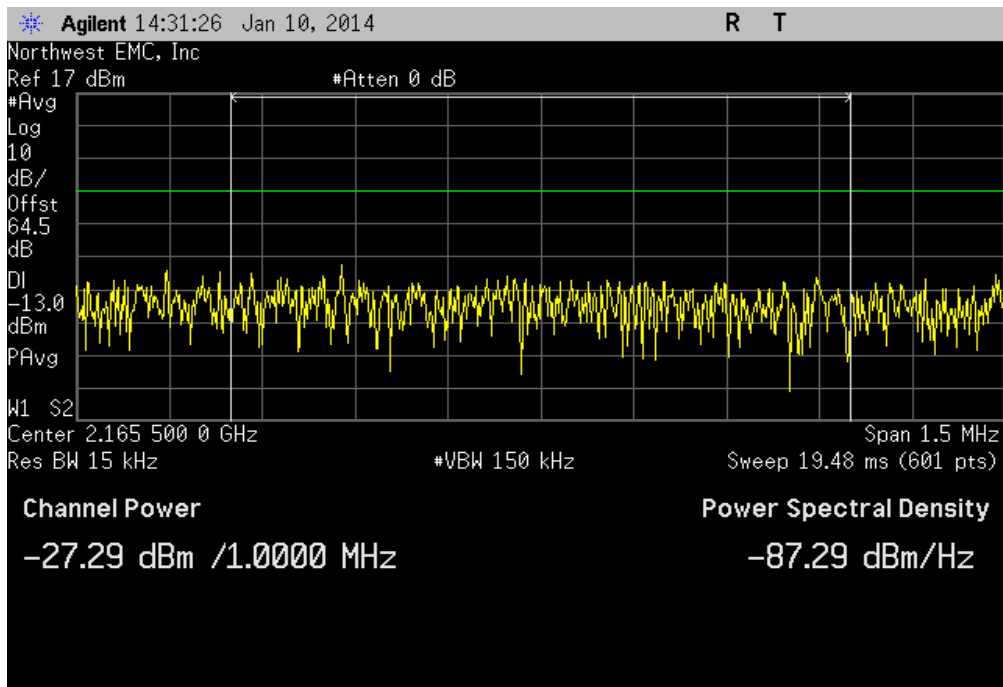
Port A, LTE 5M, Multi Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -34.56 dBm | -14 dBm | Pass   |



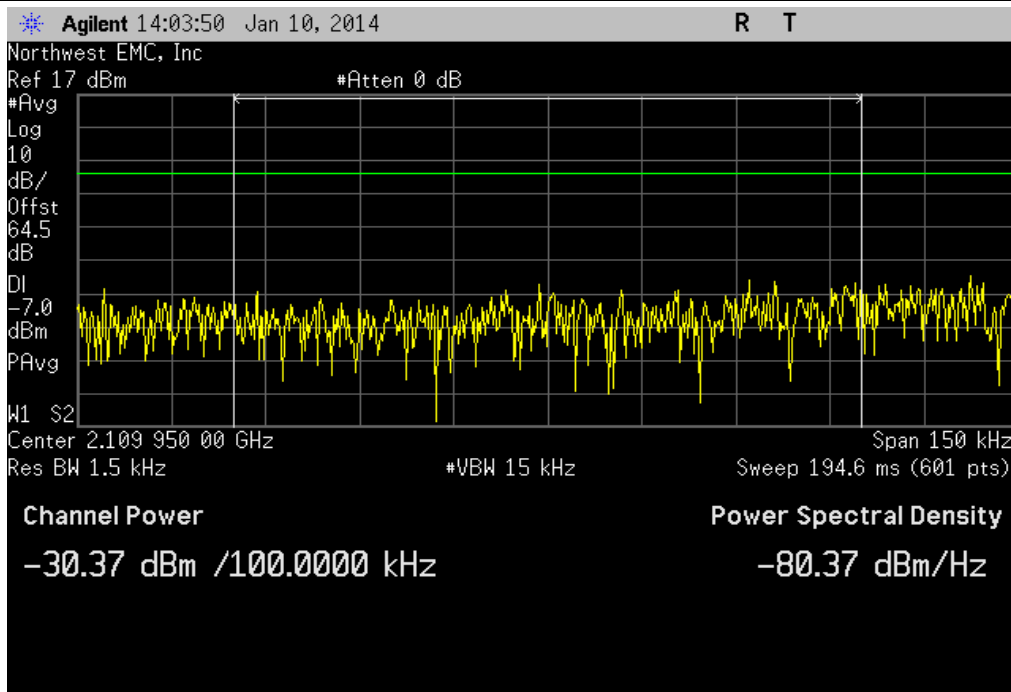
Port A, LTE 5M, Multi Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -27.29 dBm | -13 dBm | Pass   |



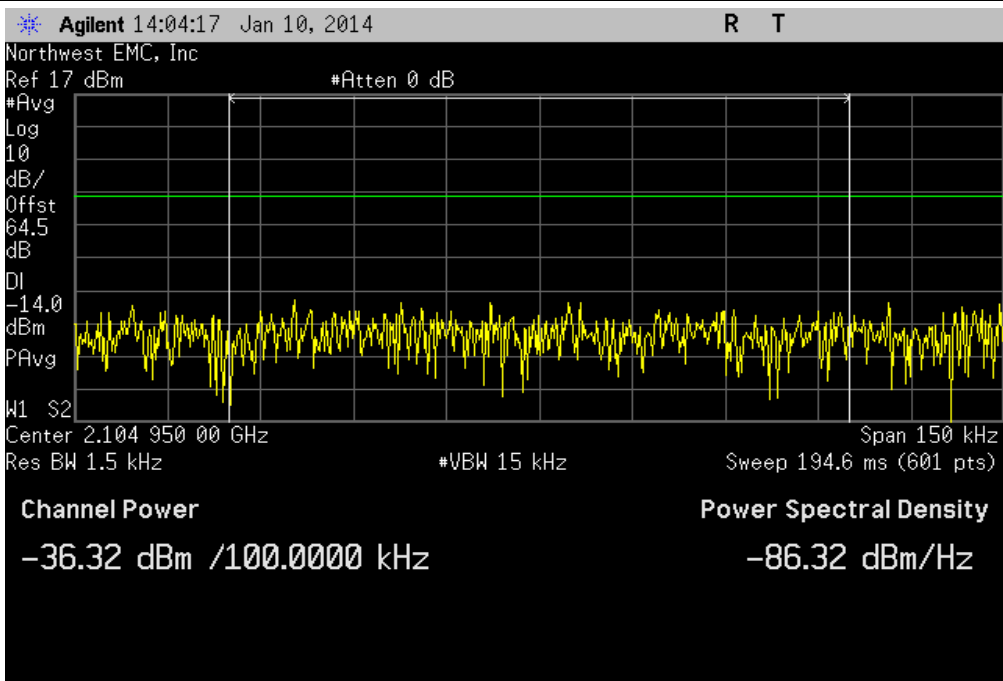
Port A, LTE 10M, Single Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -30.37 dBm | -7 dBm | Pass   |



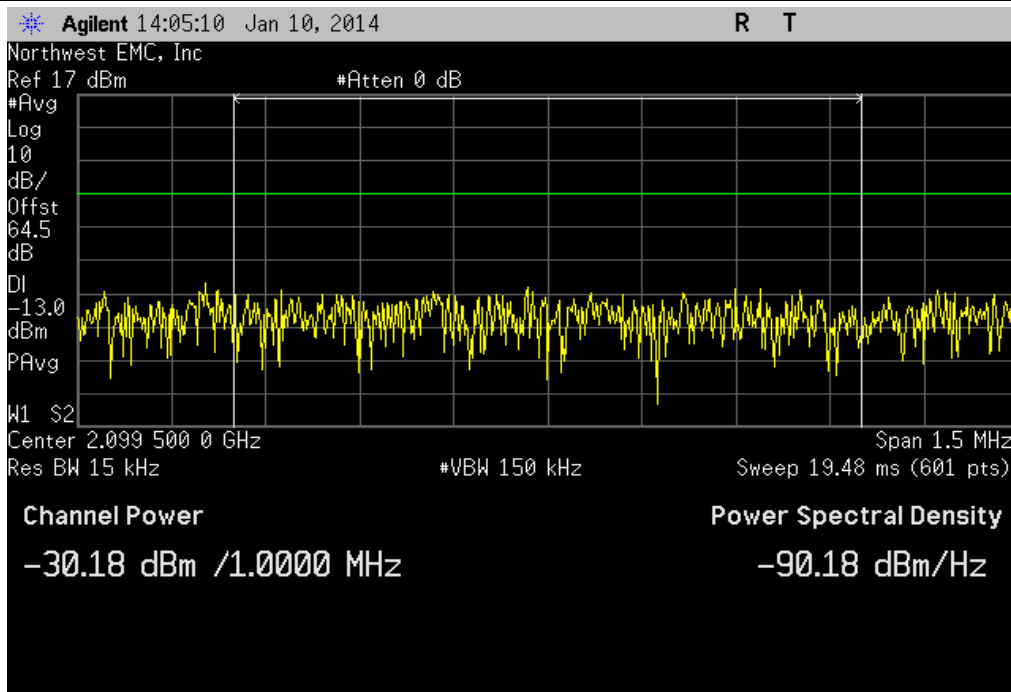
Port A, LTE 10M, Single Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -36.32 dBm | -14 dBm | Pass   |



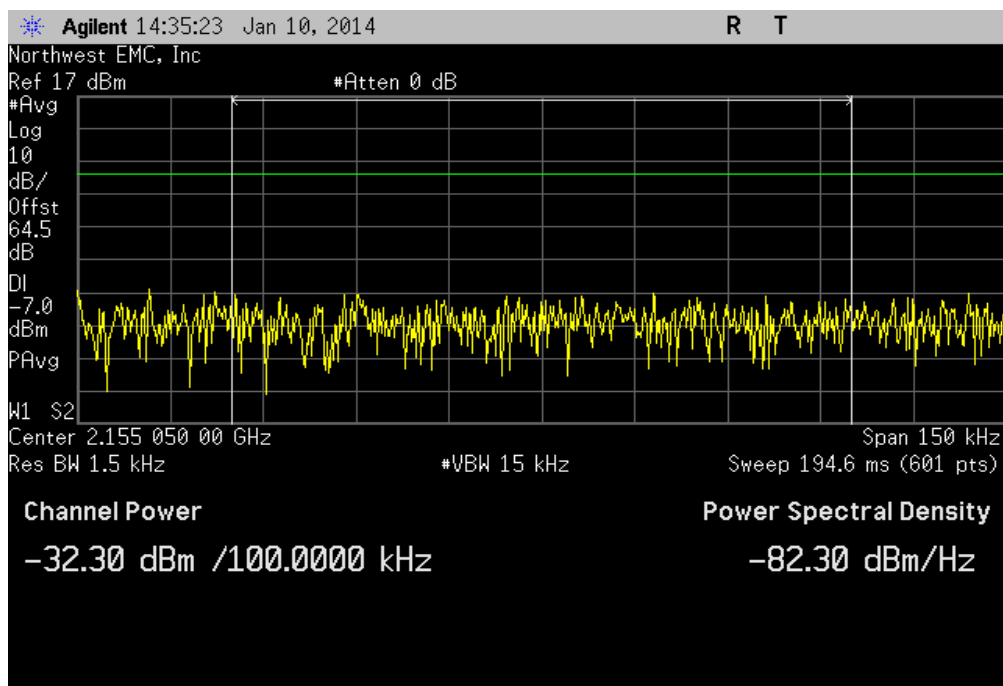
Port A, LTE 10M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.18 dBm | -13 dBm | Pass   |

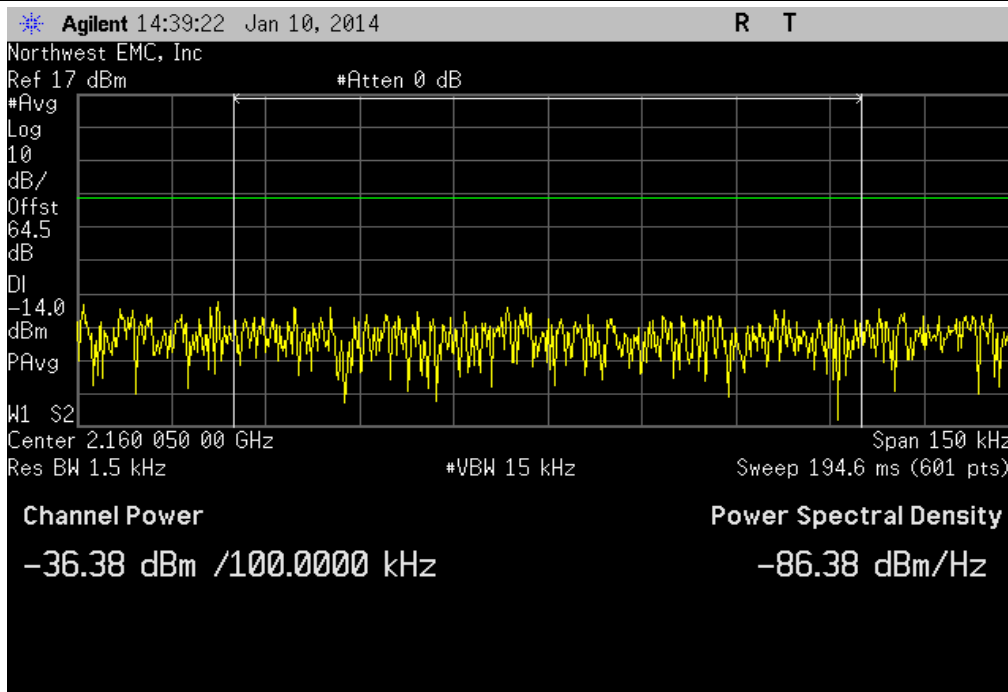


Port A, LTE 10M, Single Carrier, Right Band Edge 2155.05 MHz

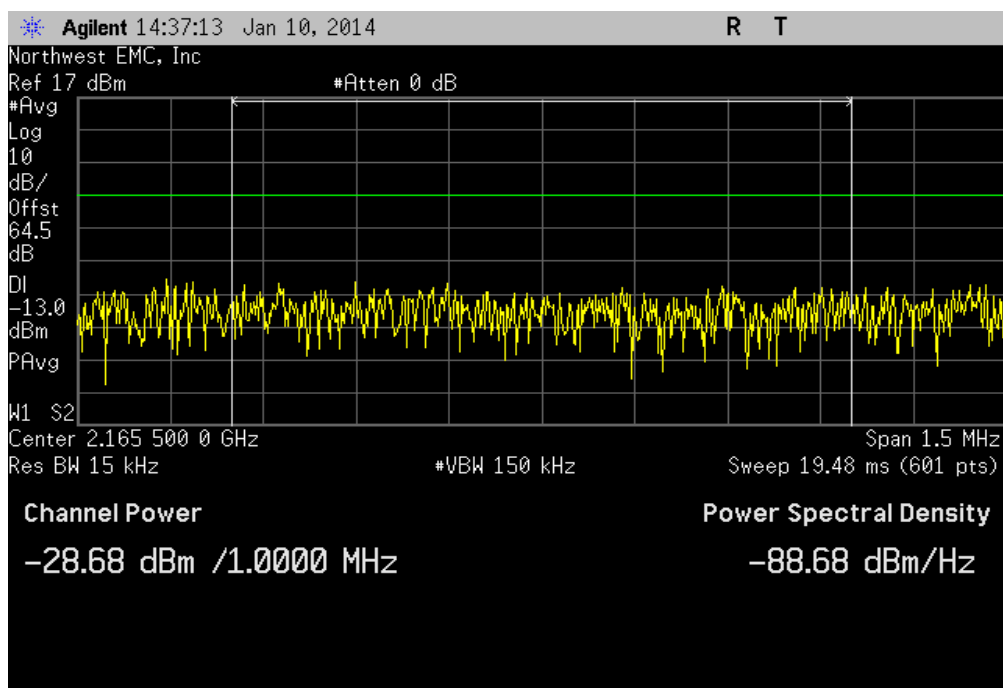
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -32.30 dBm | -7 dBm | Pass   |



| Port A, LTE 10M, Single Carrier, Right Band Edge 2160.05 MHz |  |  |  |  |            |         |        |
|--------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                              |  |  |  |  | Value      | Limit   | Result |
|                                                              |  |  |  |  | -36.38 dBm | -14 dBm | Pass   |

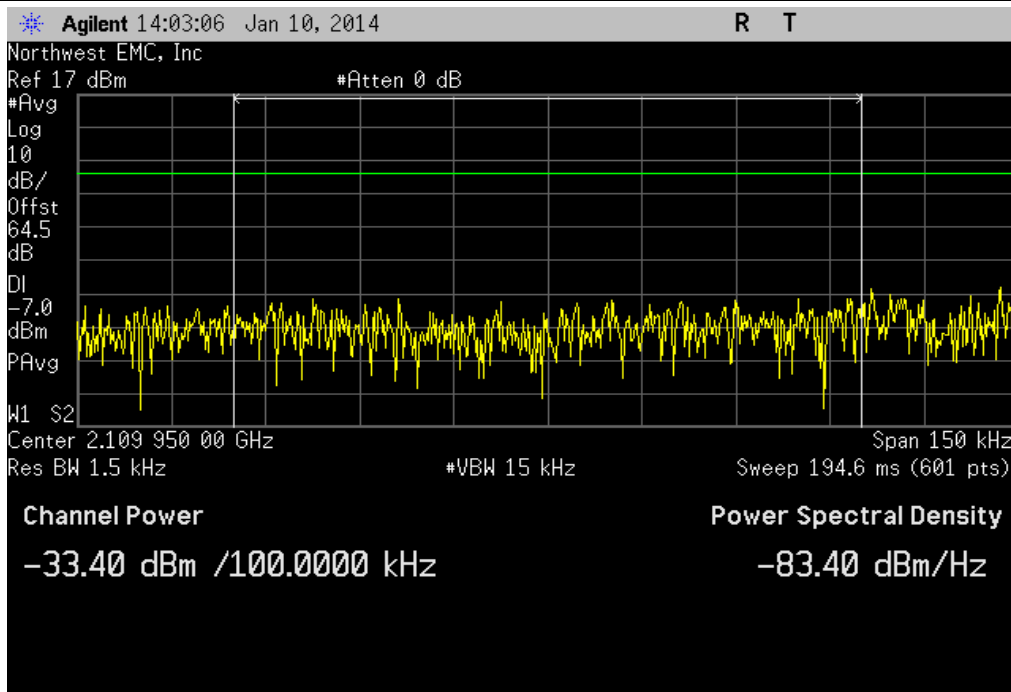


| Port A, LTE 10M, Single Carrier, Right Band Edge 2165.05 MHz |  |  |  |  |            |         |        |
|--------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                              |  |  |  |  | Value      | Limit   | Result |
|                                                              |  |  |  |  | -28.68 dBm | -13 dBm | Pass   |



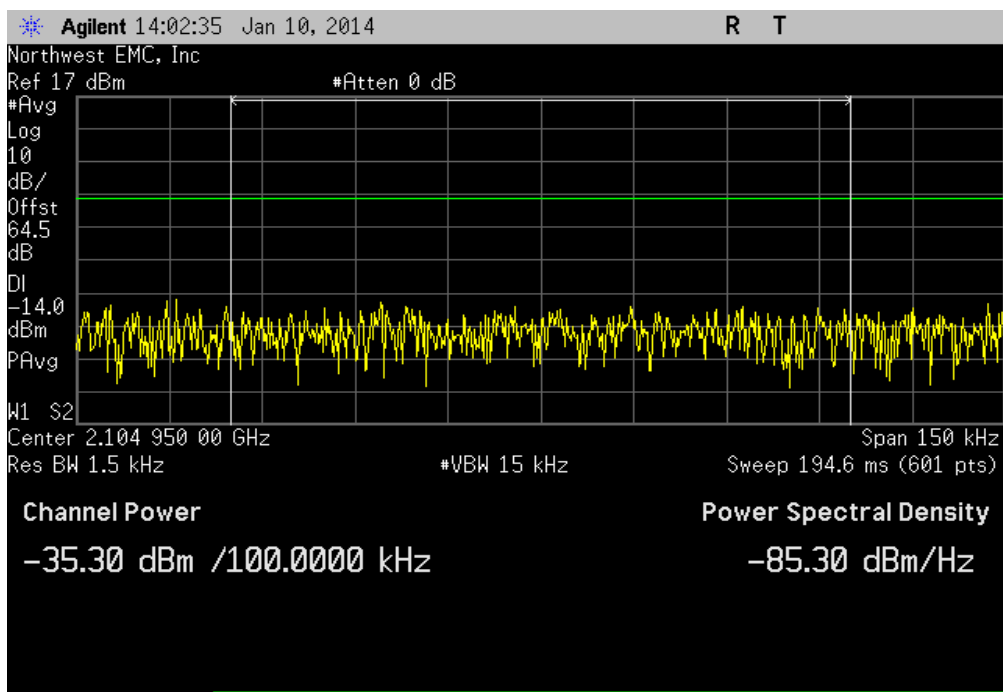
Port A, LTE 10M, Multi Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -33.40 dBm | -7 dBm | Pass   |



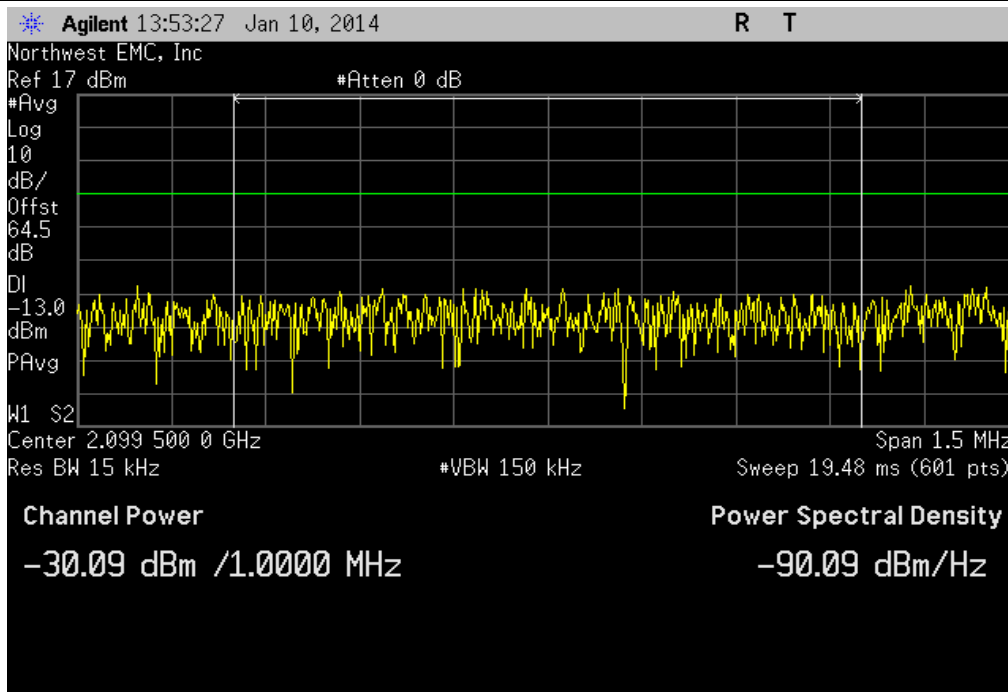
Port A, LTE 10M, Multi Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.30 dBm | -14 dBm | Pass   |



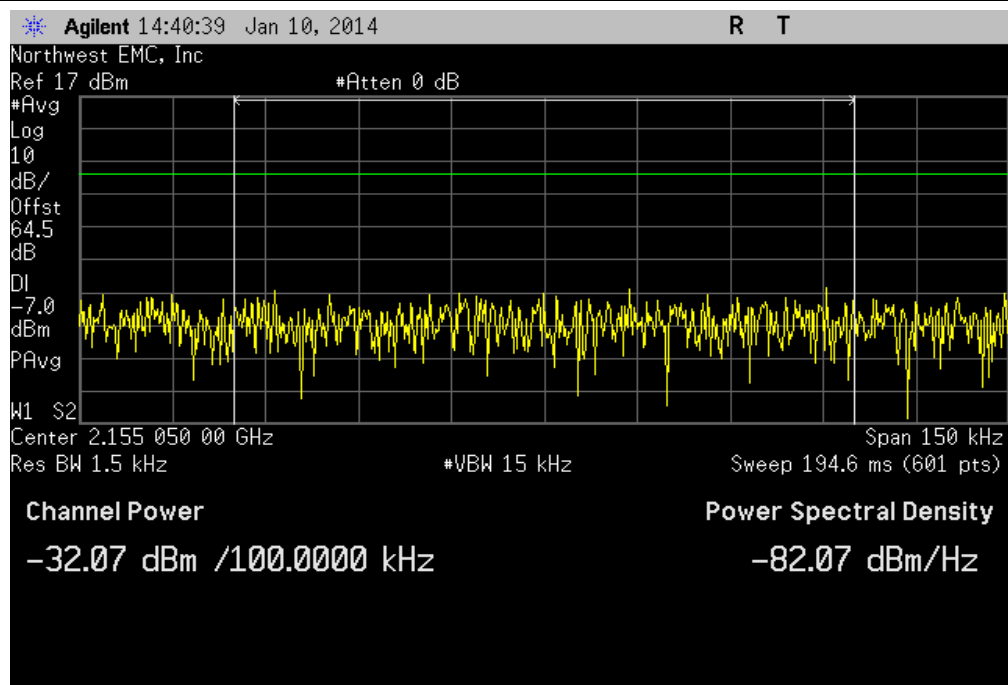
Port A, LTE 10M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.09 dBm | -13 dBm | Pass   |

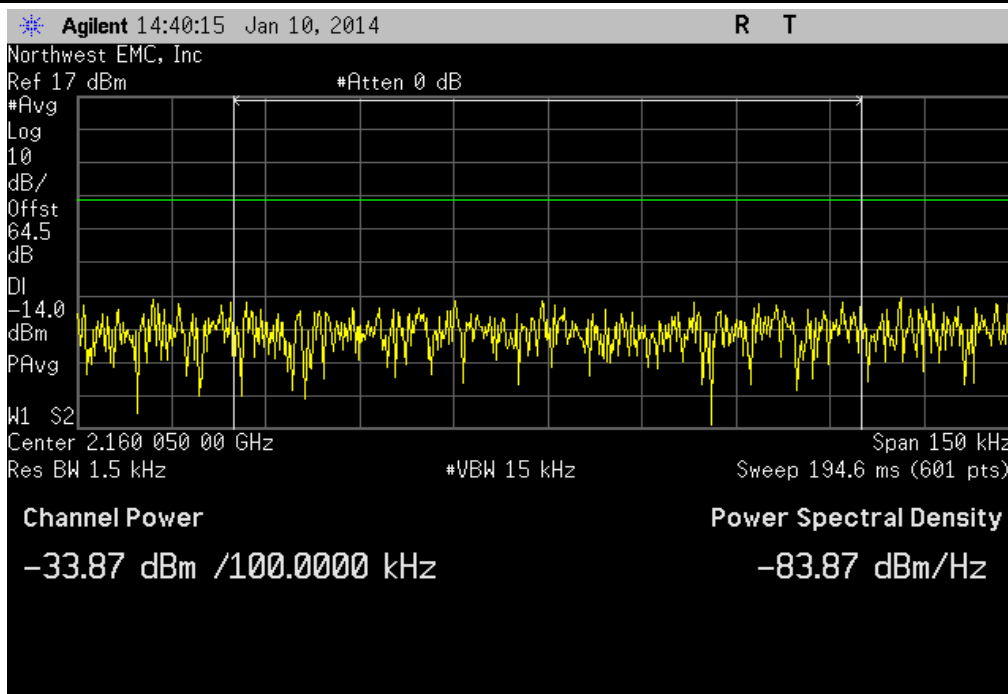


Port A, LTE 10M, Multi Carrier, Right Band Edge 2155.05 MHz

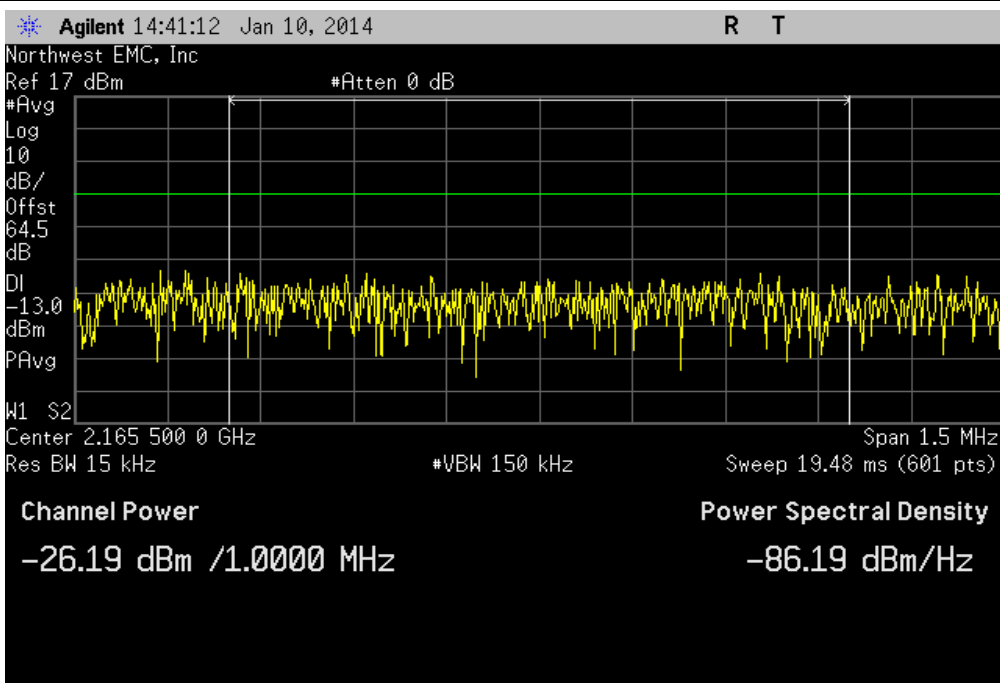
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -32.07 dBm | -7 dBm | Pass   |



| Port A, LTE 10M, Multi Carrier, Right Band Edge 2160.05 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                             |  |  |  |  | Value      | Limit   | Result |
|                                                             |  |  |  |  | -33.87 dBm | -14 dBm | Pass   |

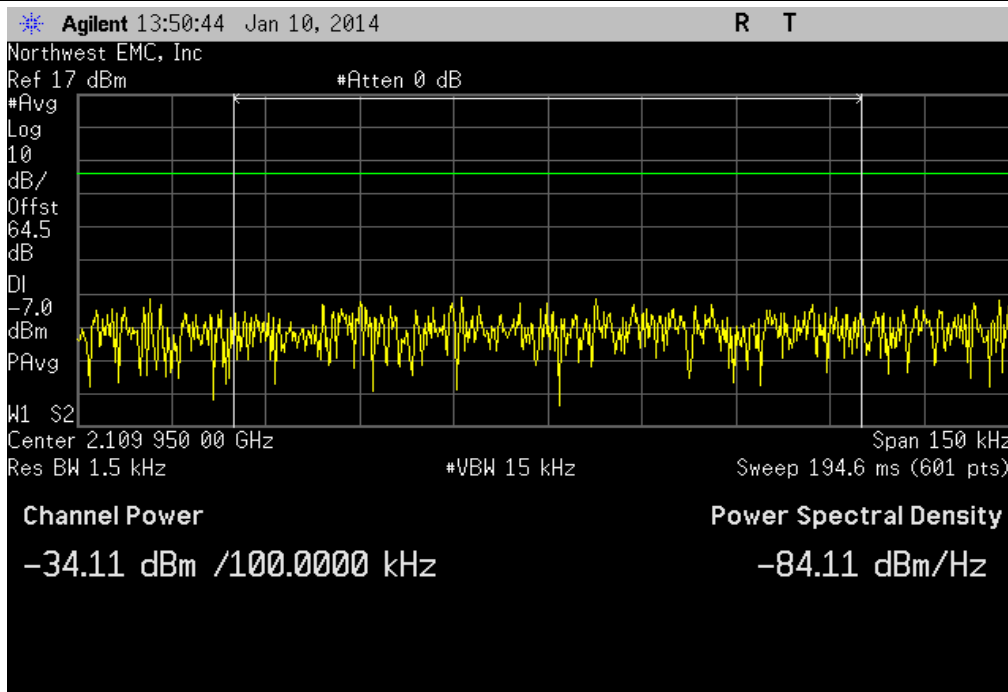


| Port A, LTE 10M, Multi Carrier, Right Band Edge 2165.05 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                             |  |  |  |  | Value      | Limit   | Result |
|                                                             |  |  |  |  | -26.19 dBm | -13 dBm | Pass   |



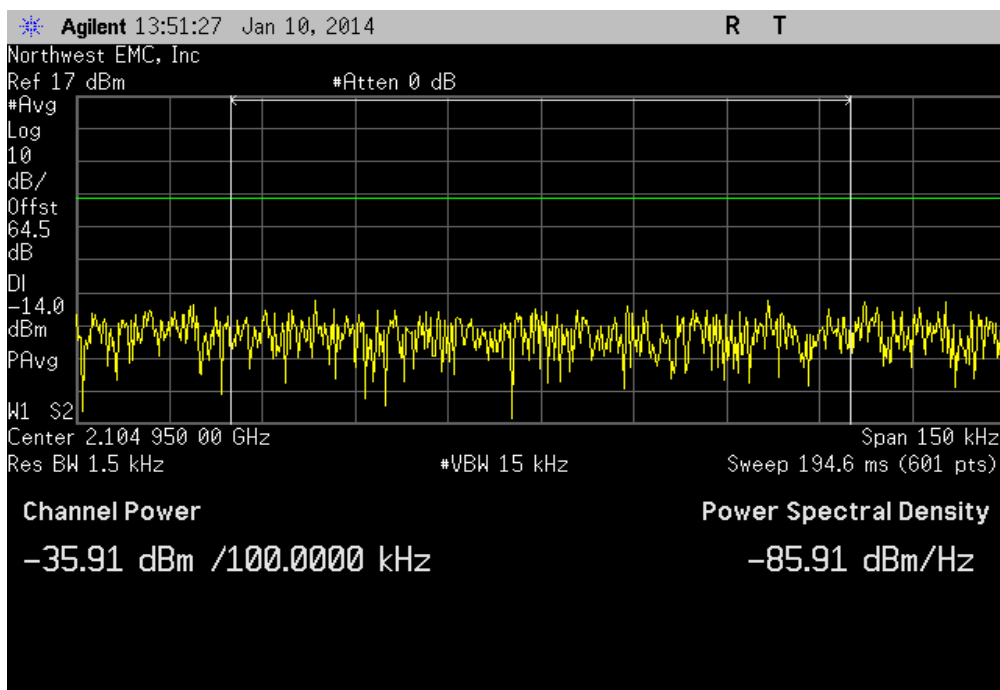
Port A, LTE 15M, Single Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -34.11 dBm | -7 dBm | Pass   |



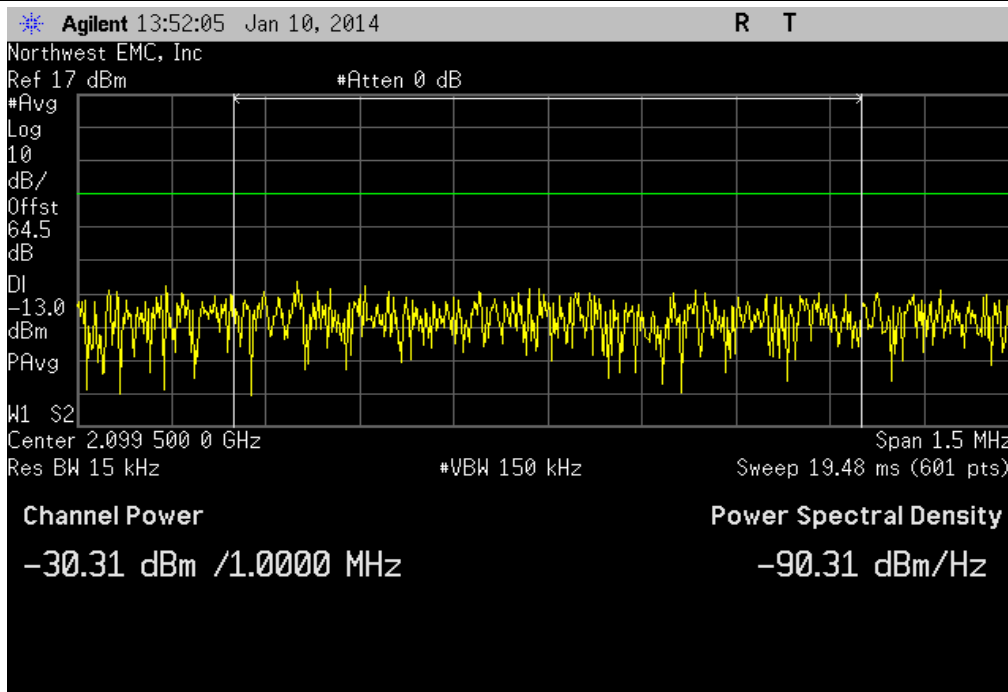
Port A, LTE 15M, Single Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.91 dBm | -14 dBm | Pass   |



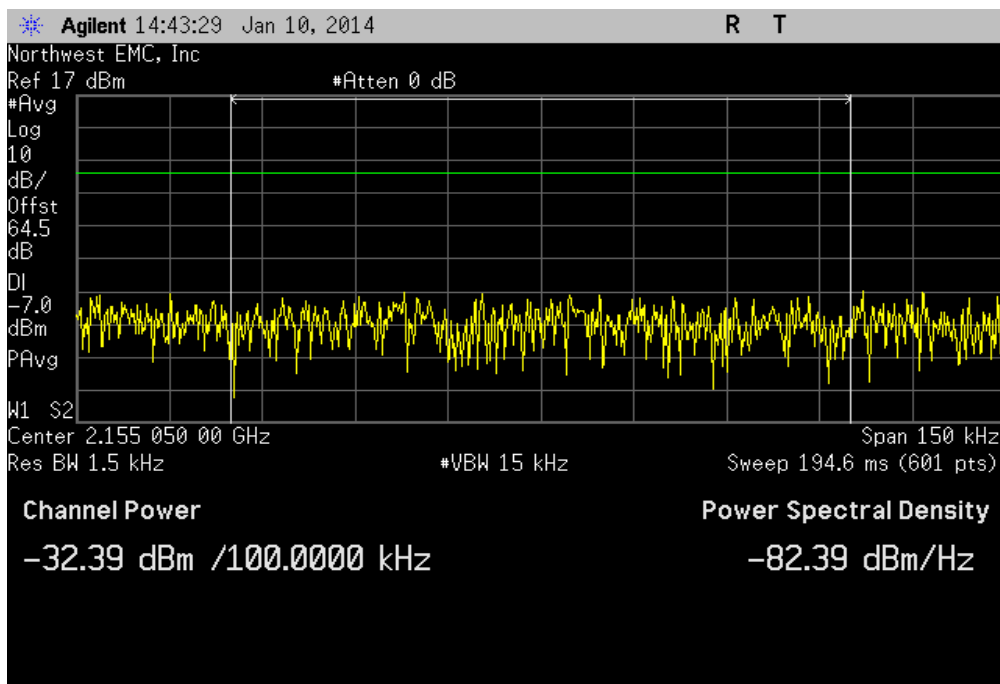
Port A, LTE 15M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.31 dBm | -13 dBm | Pass   |

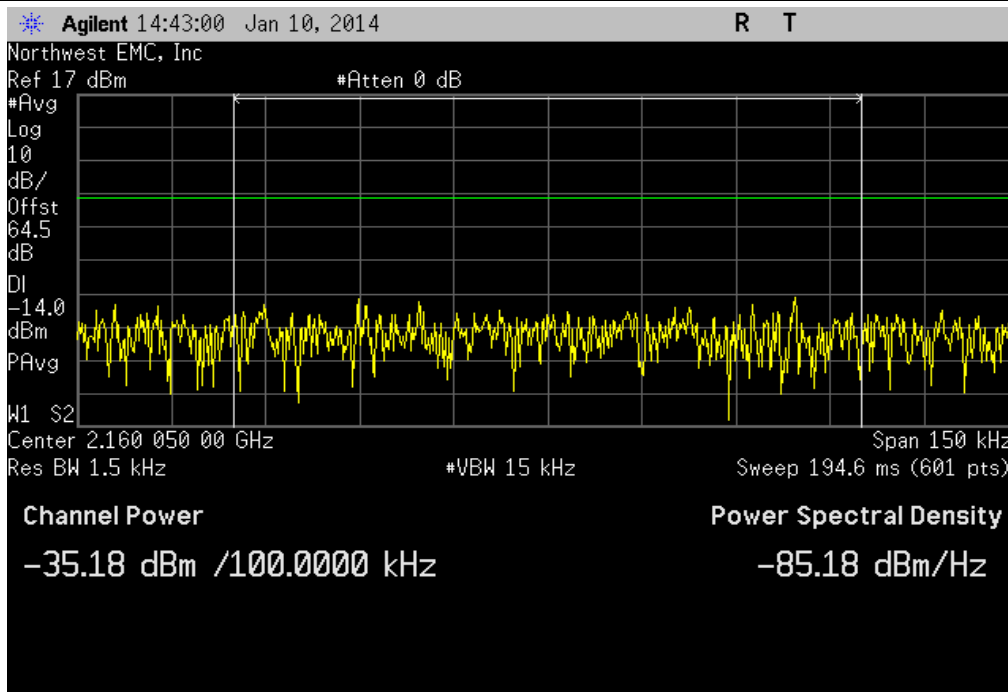


Port A, LTE 15M, Single Carrier, Right Band Edge 2155.05 MHz

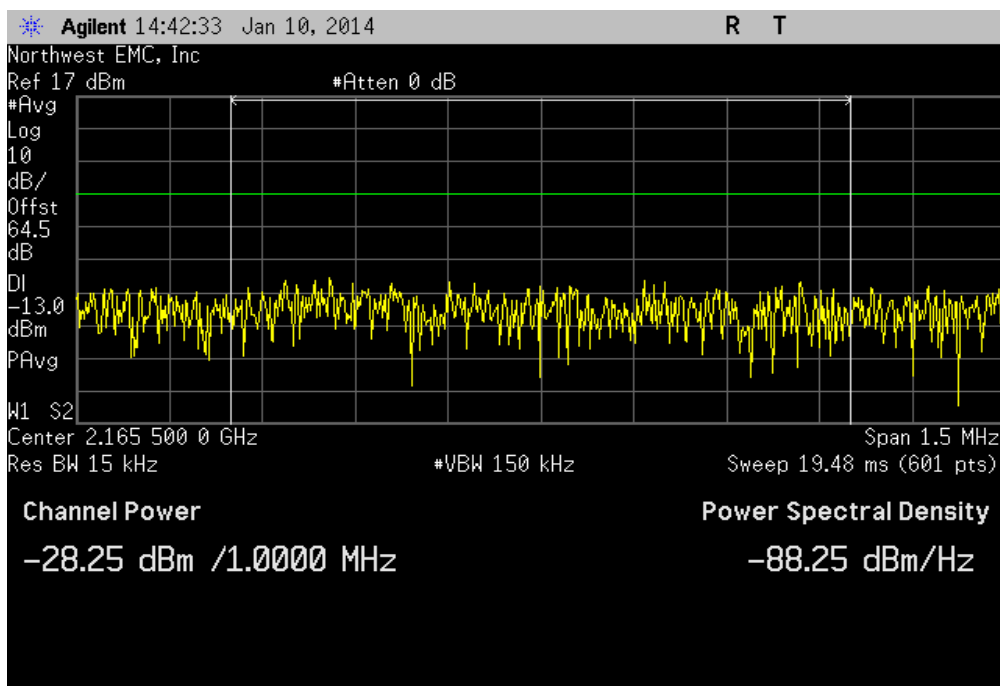
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -32.39 dBm | -7 dBm | Pass   |



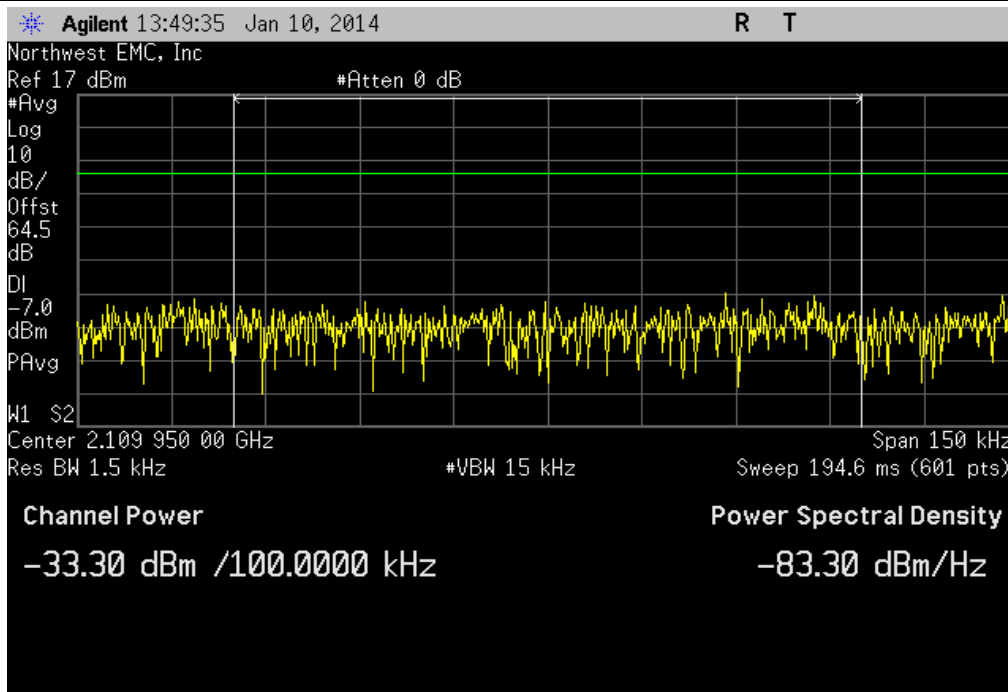
| Port A, LTE 15M, Single Carrier, Right Band Edge 2160.05 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                              |  |  |  | Value      | Limit   | Result |  |
|                                                              |  |  |  | -35.18 dBm | -14 dBm | Pass   |  |



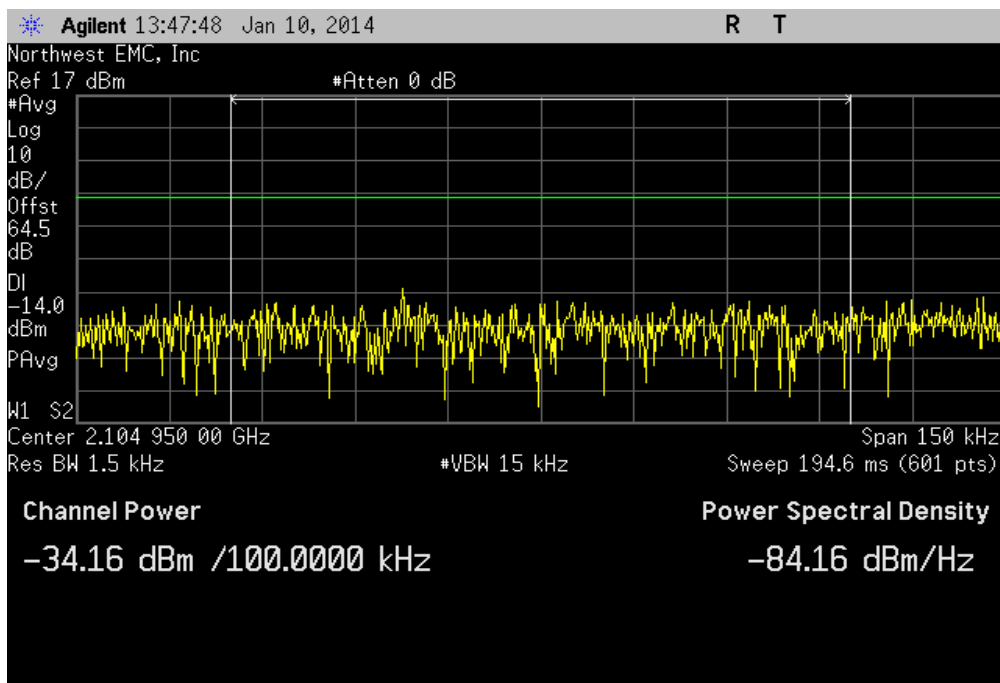
| Port A, LTE 15M, Single Carrier, Right Band Edge 2165.05 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                              |  |  |  | Value      | Limit   | Result |  |
|                                                              |  |  |  | -28.25 dBm | -13 dBm | Pass   |  |



| Port A, LTE 15M, Multi Carrier, Left Band Edge 2109.95 MHz |  |  |  |  |            |        |        |
|------------------------------------------------------------|--|--|--|--|------------|--------|--------|
|                                                            |  |  |  |  | Value      | Limit  | Result |
|                                                            |  |  |  |  | -33.30 dBm | -7 dBm | Pass   |

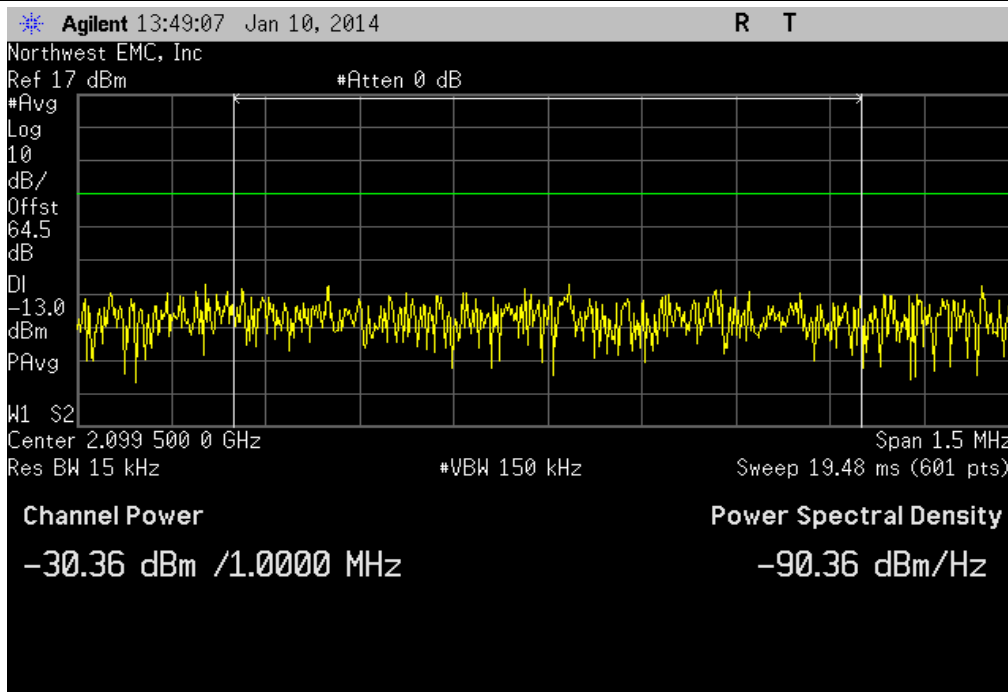


| Port A, LTE 15M, Multi Carrier, Left Band Edge 2104.95 MHz |  |  |  |  |            |         |        |
|------------------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                            |  |  |  |  | Value      | Limit   | Result |
|                                                            |  |  |  |  | -34.16 dBm | -14 dBm | Pass   |



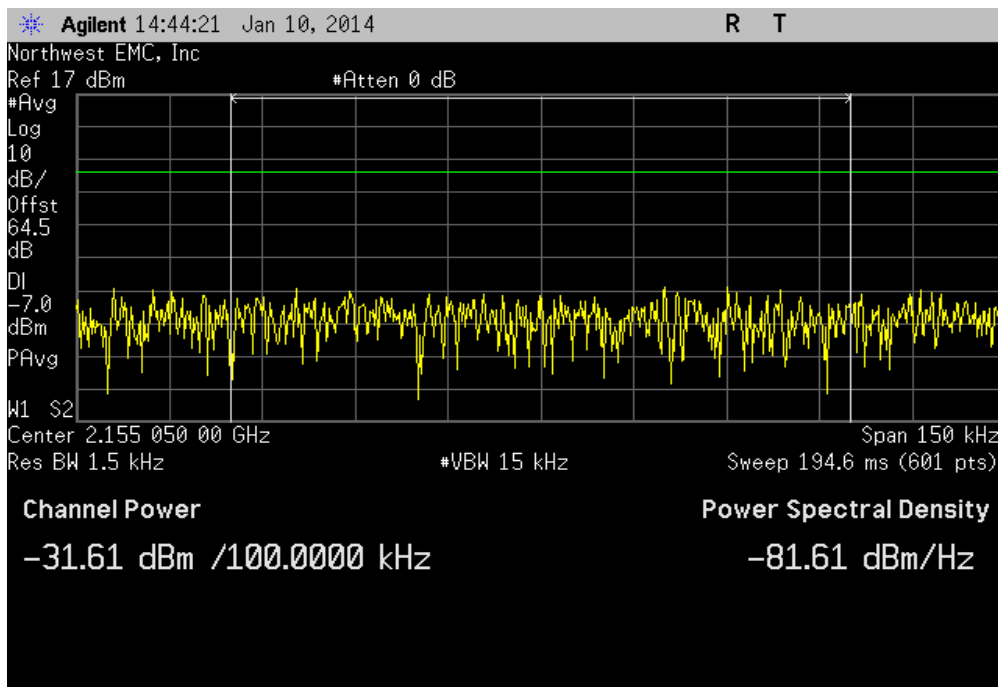
Port A, LTE 15M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.36 dBm | -13 dBm | Pass   |

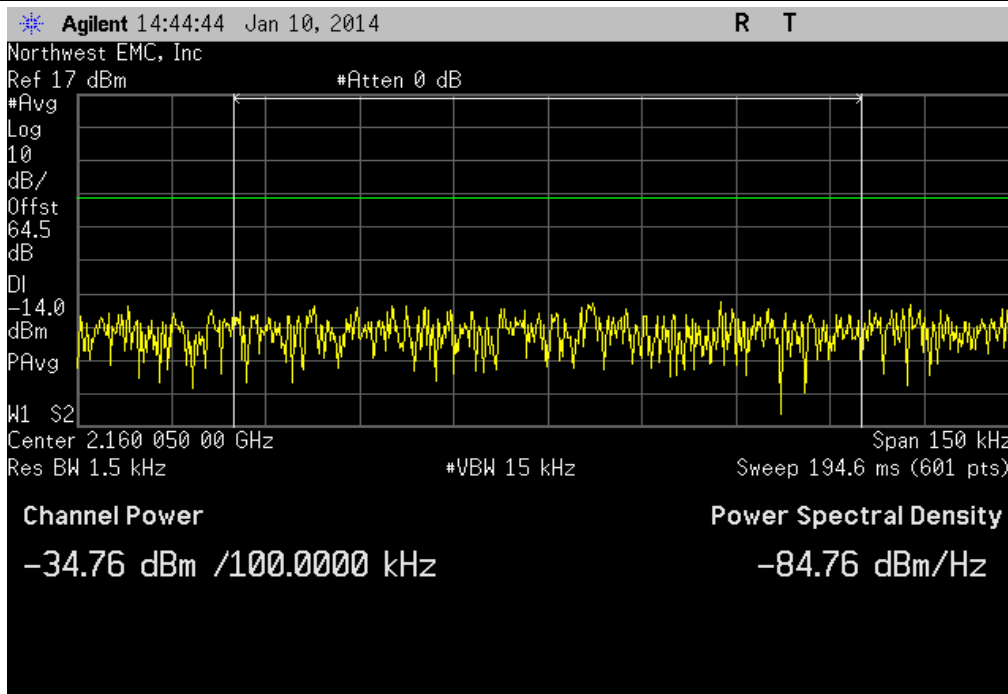


Port A, LTE 15M, Multi Carrier, Right Band Edge 2155.05 MHz

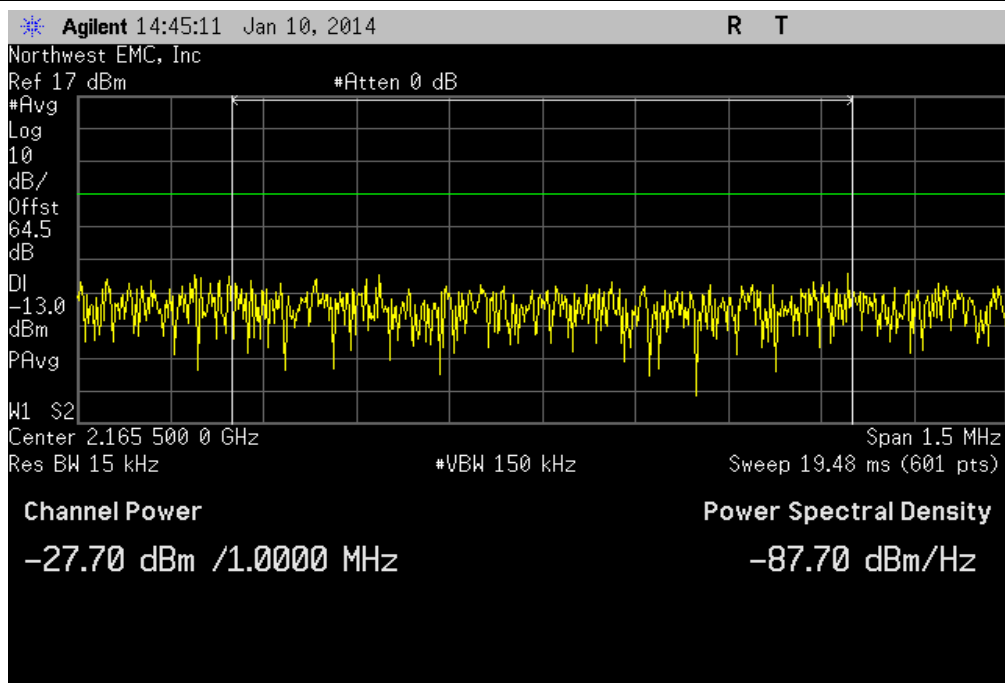
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -31.61 dBm | -7 dBm | Pass   |



| Port A, LTE 15M, Multi Carrier, Right Band Edge 2160.05 MHz |  |  |  |            |         |        |  |
|-------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                             |  |  |  | Value      | Limit   | Result |  |
|                                                             |  |  |  | -34.76 dBm | -14 dBm | Pass   |  |

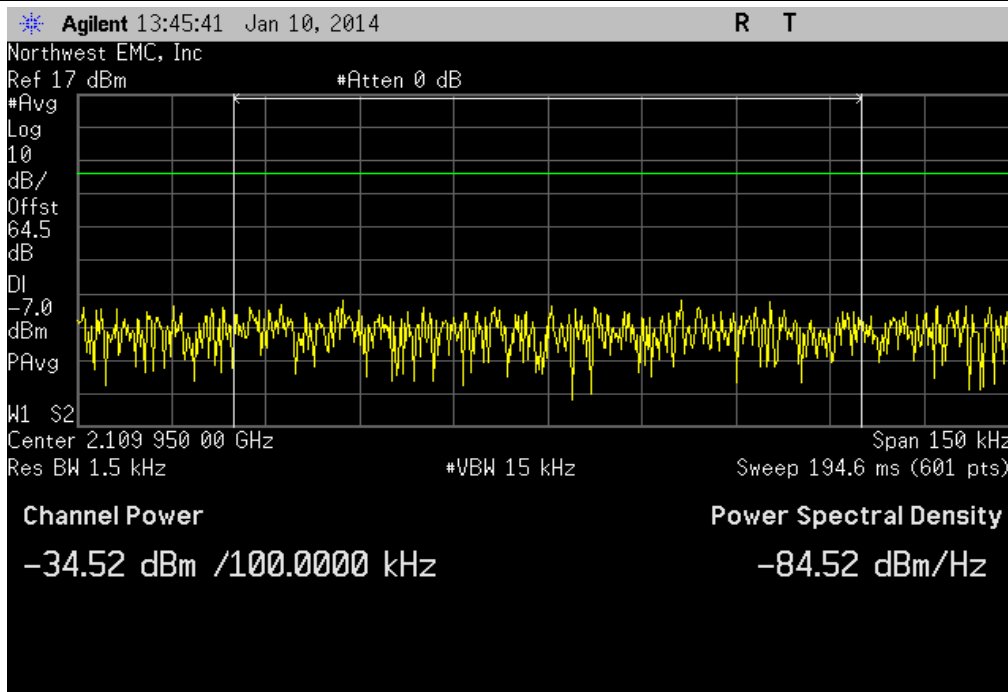


| Port A, LTE 15M, Multi Carrier, Right Band Edge 2165.05 MHz |  |  |  |            |         |        |  |
|-------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                             |  |  |  | Value      | Limit   | Result |  |
|                                                             |  |  |  | -27.70 dBm | -13 dBm | Pass   |  |



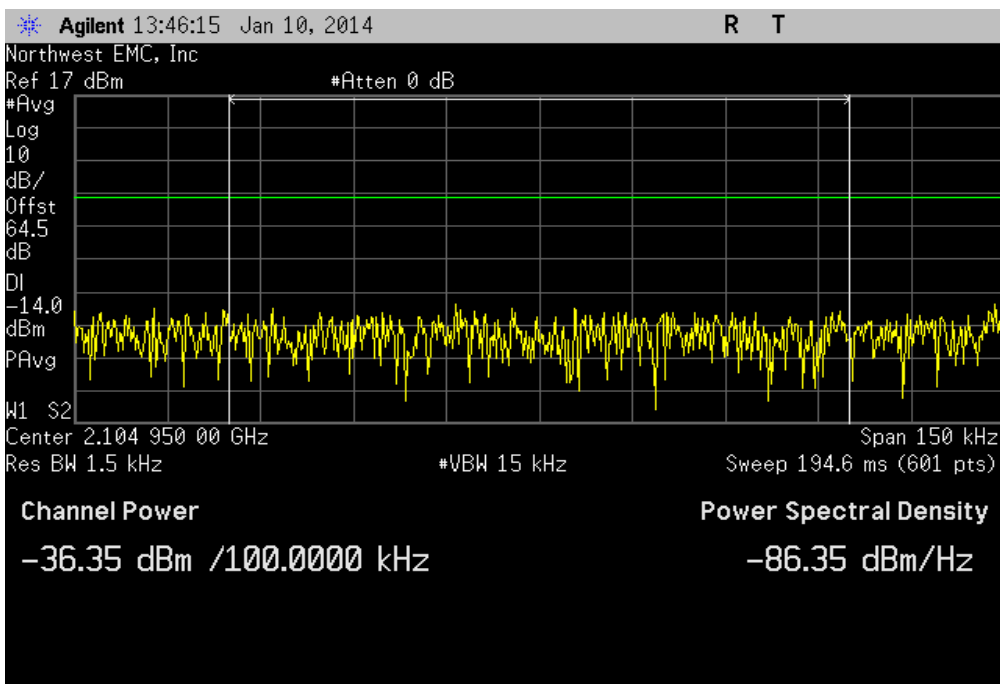
Port A, LTE 20M, Single Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -34.52 dBm | -7 dBm | Pass   |



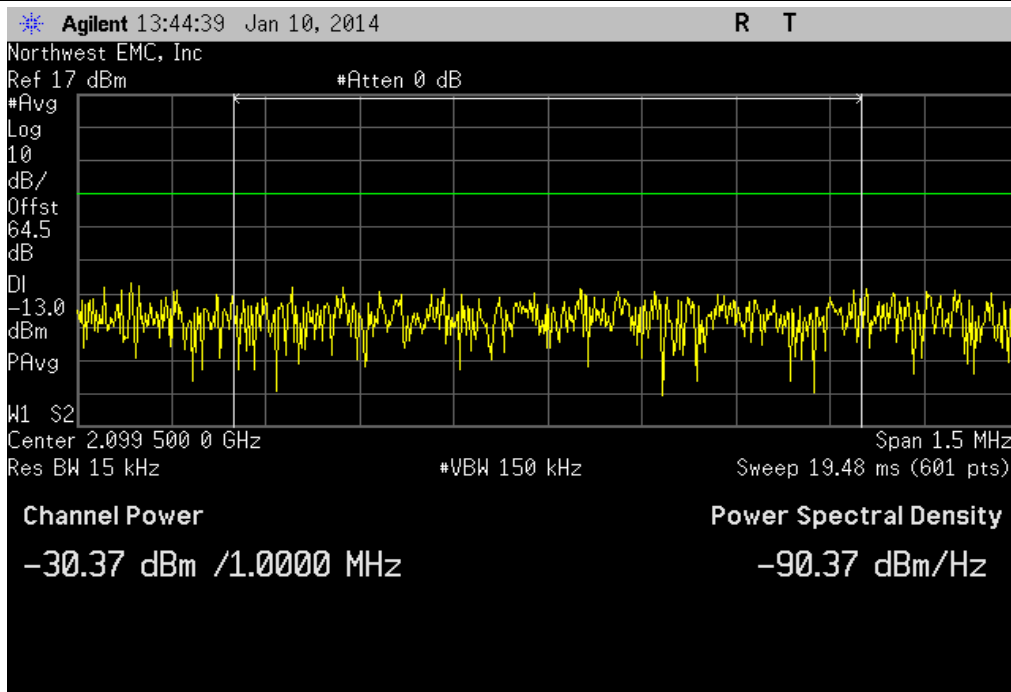
Port A, LTE 20M, Single Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -36.35 dBm | -14 dBm | Pass   |



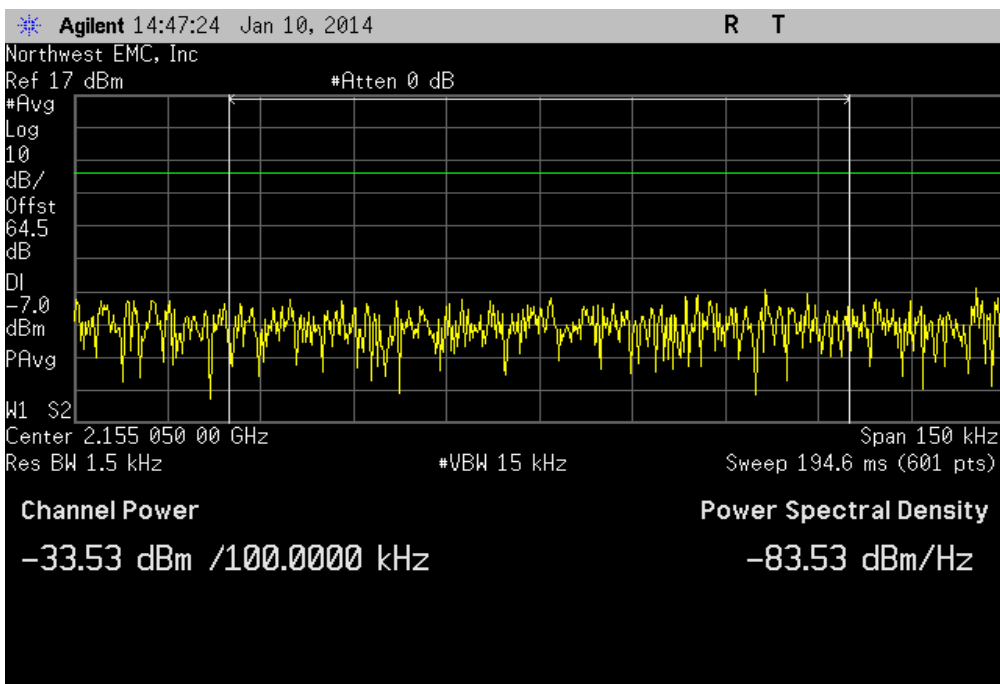
Port A, LTE 20M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.37 dBm | -13 dBm | Pass   |

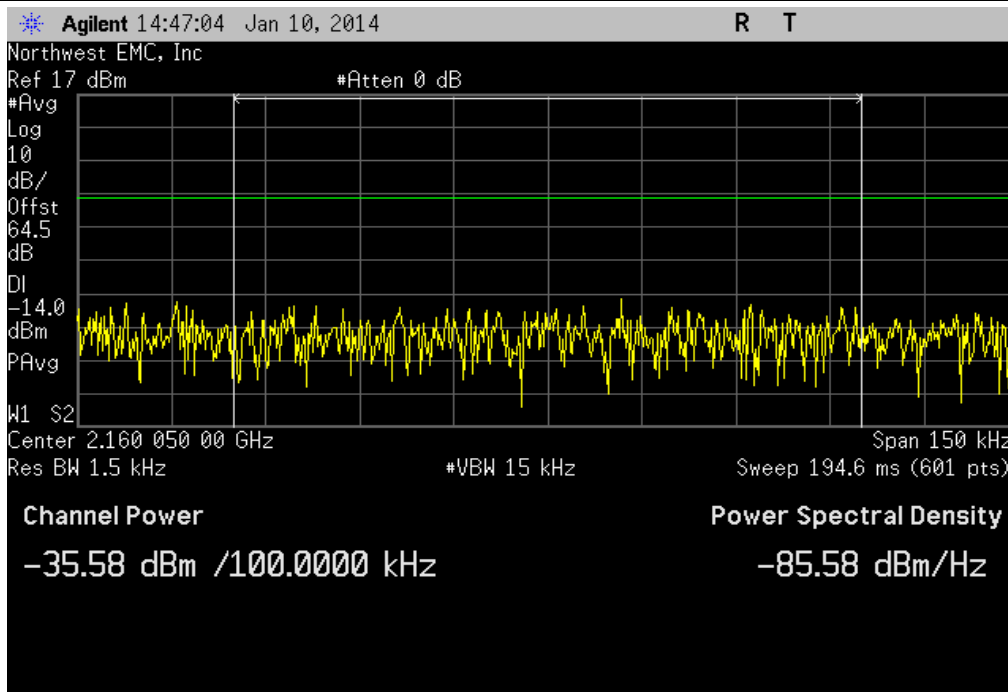


Port A, LTE 20M, Single Carrier, Right Band Edge 2155.05 MHz

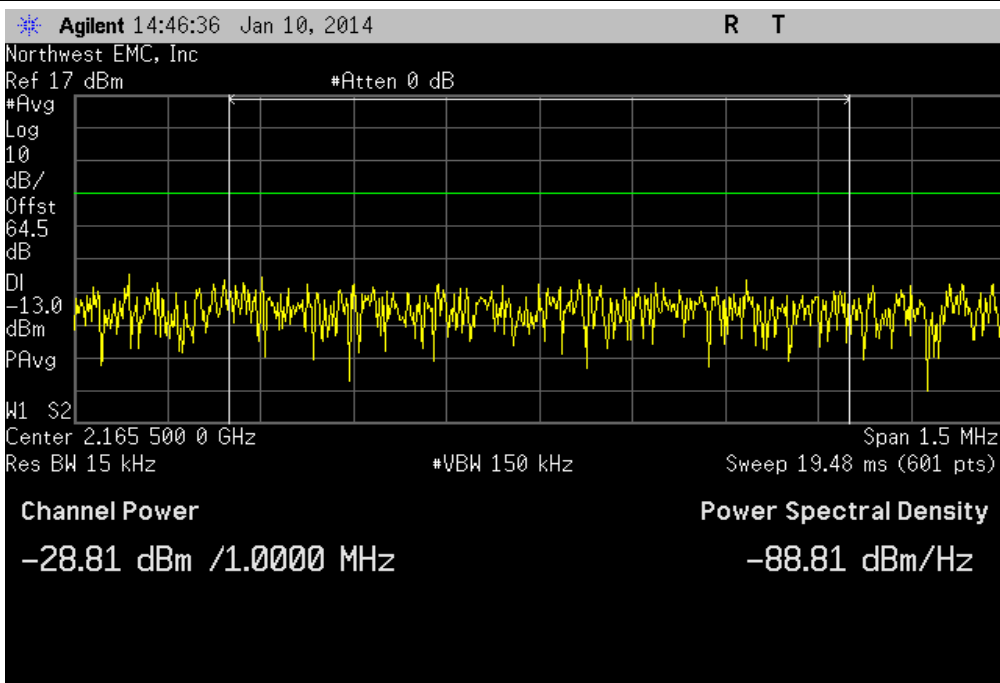
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -33.53 dBm | -7 dBm | Pass   |



| Port A, LTE 20M, Single Carrier, Right Band Edge 2160.05 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                              |  |  |  | Value      | Limit   | Result |  |
|                                                              |  |  |  | -35.58 dBm | -14 dBm | Pass   |  |

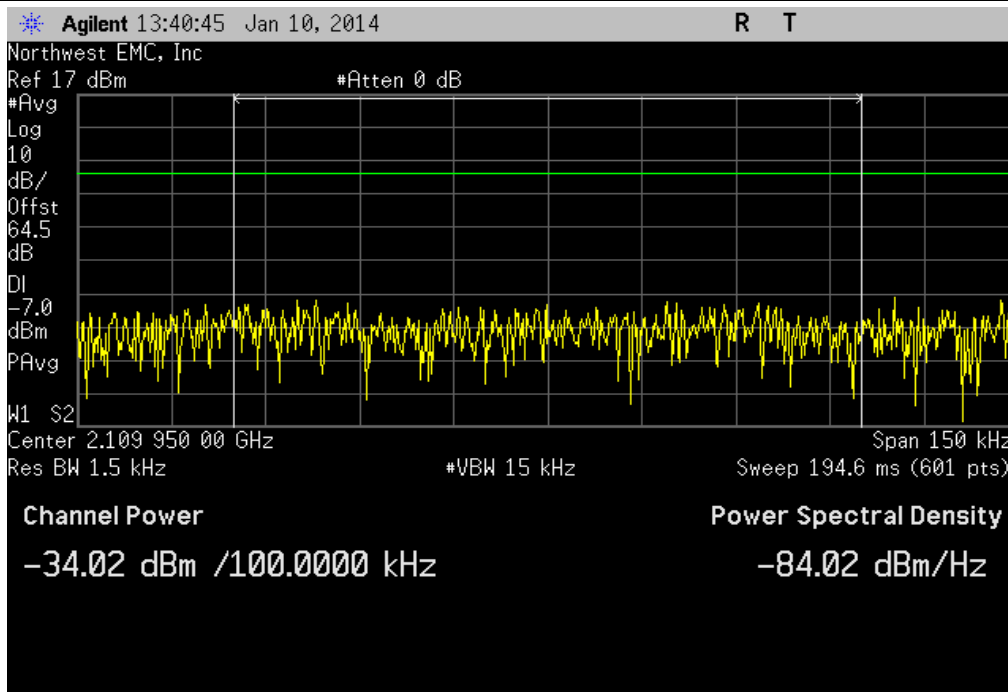


| Port A, LTE 20M, Single Carrier, Right Band Edge 2165.05 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                              |  |  |  | Value      | Limit   | Result |  |
|                                                              |  |  |  | -28.81 dBm | -13 dBm | Pass   |  |



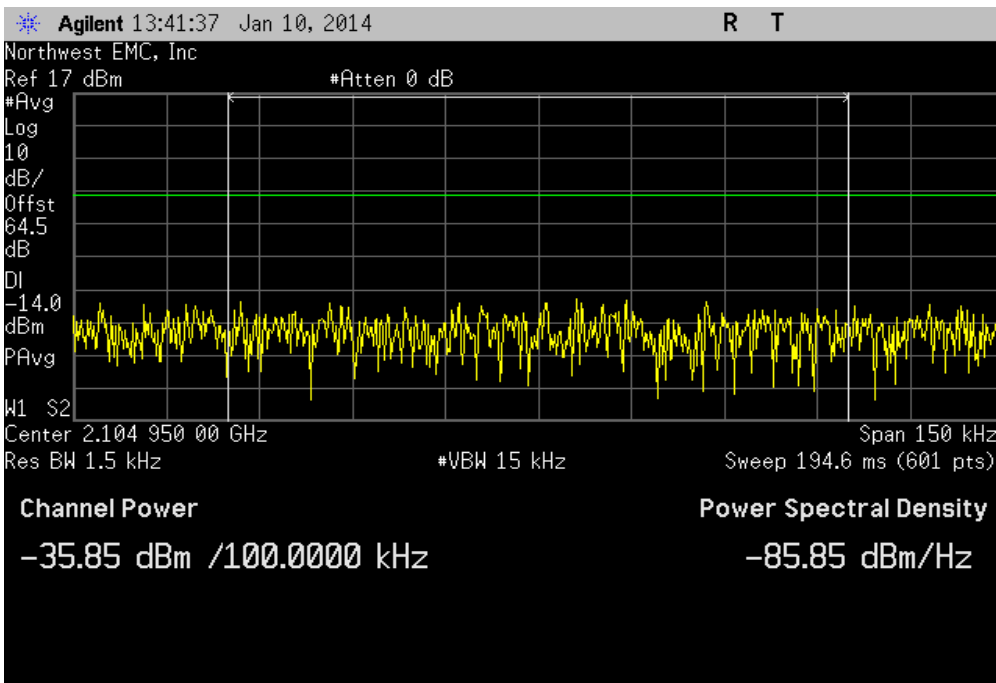
Port A, LTE 20M, Multi Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -34.02 dBm | -7 dBm | Pass   |



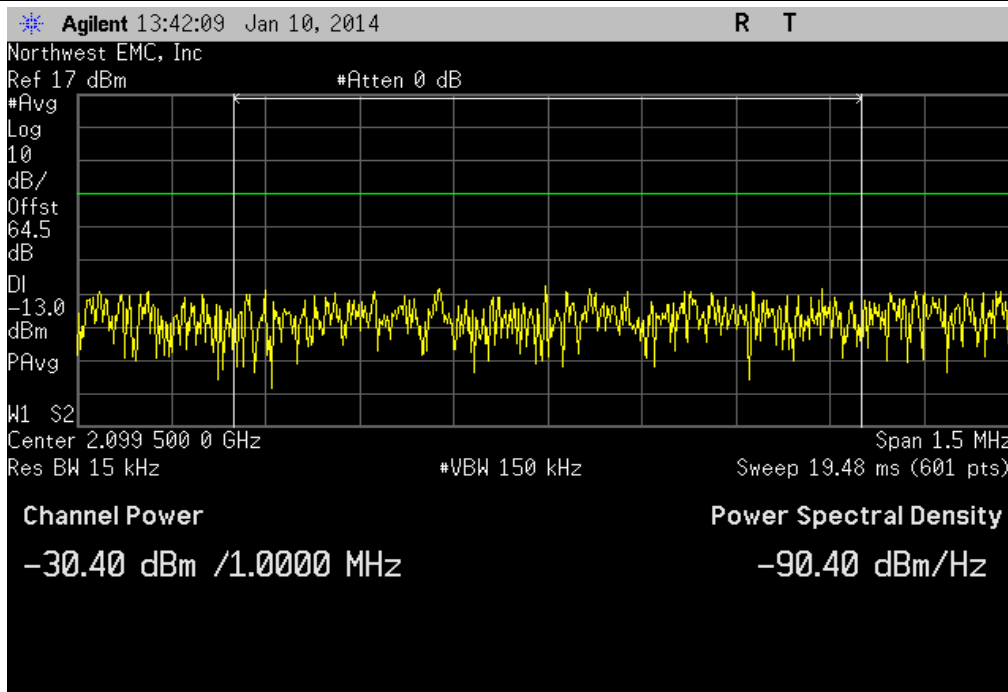
Port A, LTE 20M, Multi Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.85 dBm | -14 dBm | Pass   |



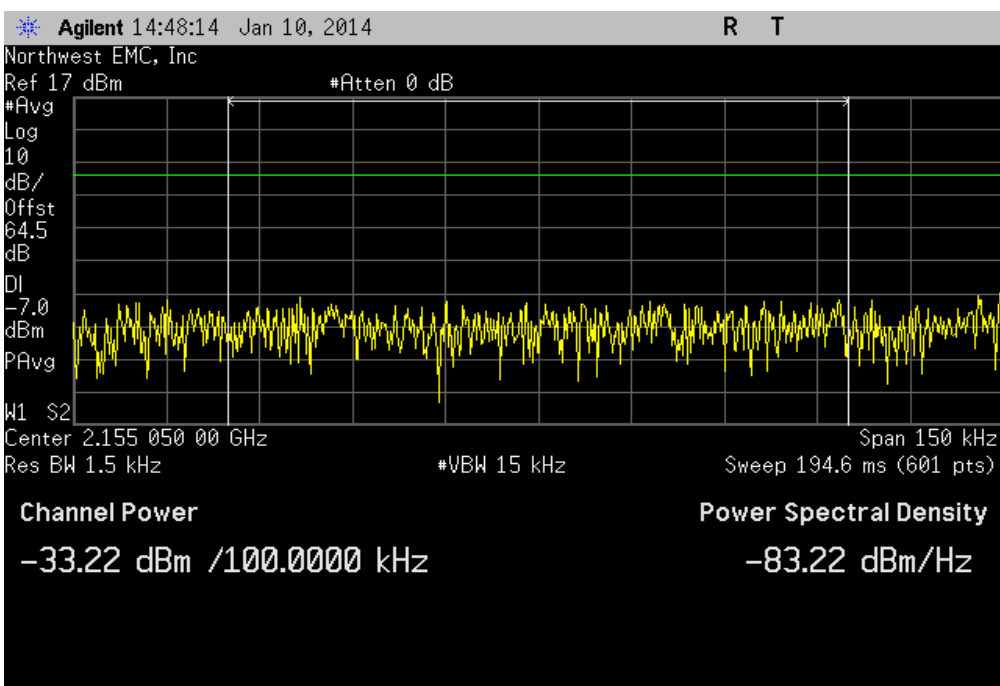
Port A, LTE 20M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.40 dBm | -13 dBm | Pass   |



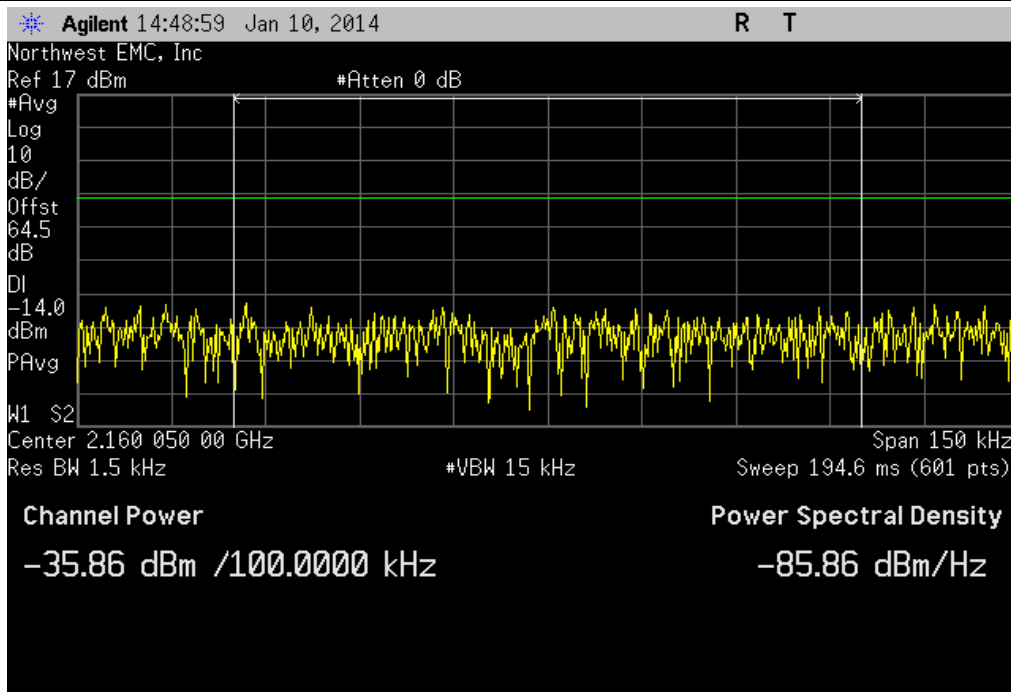
Port A, LTE 20M, Multi Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -33.22 dBm | -7 dBm | Pass   |



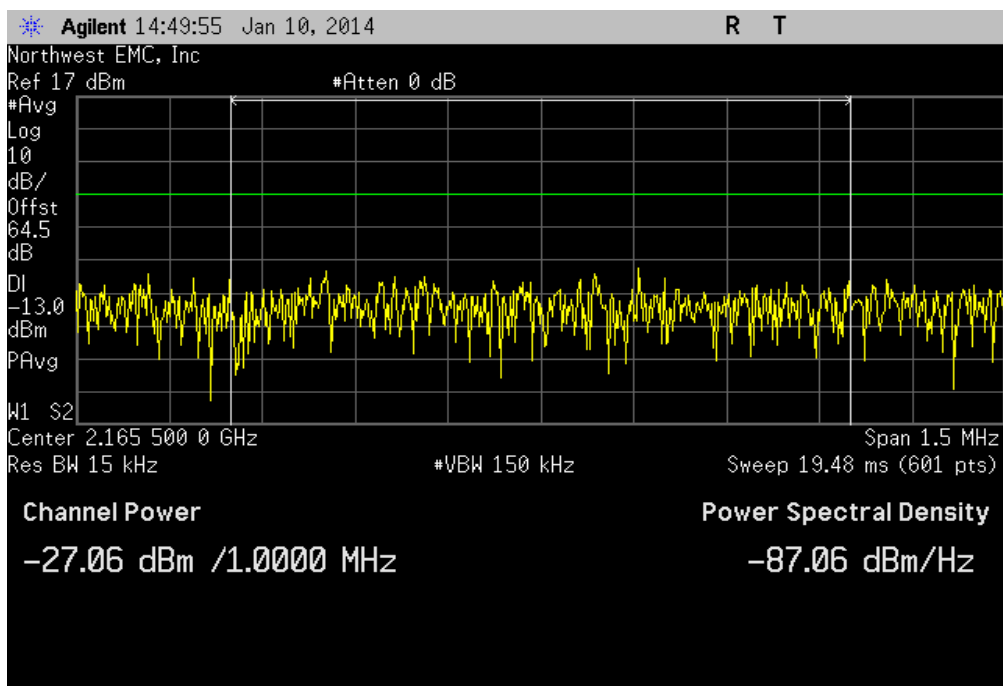
Port A, LTE 20M, Multi Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.86 dBm | -14 dBm | Pass   |



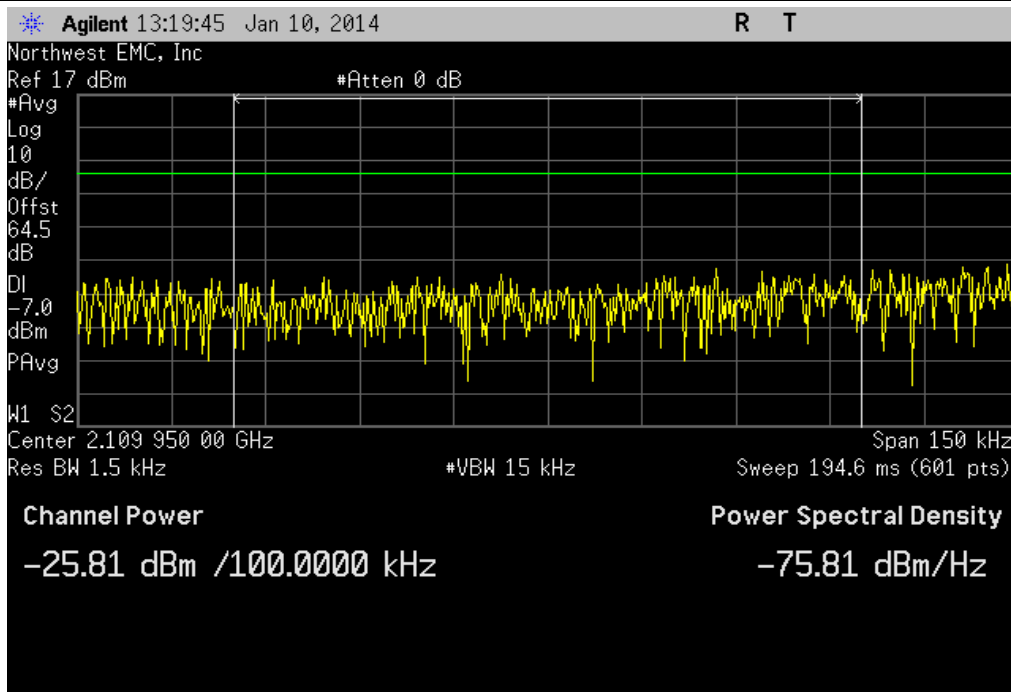
Port A, LTE 20M, Multi Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -27.06 dBm | -13 dBm | Pass   |



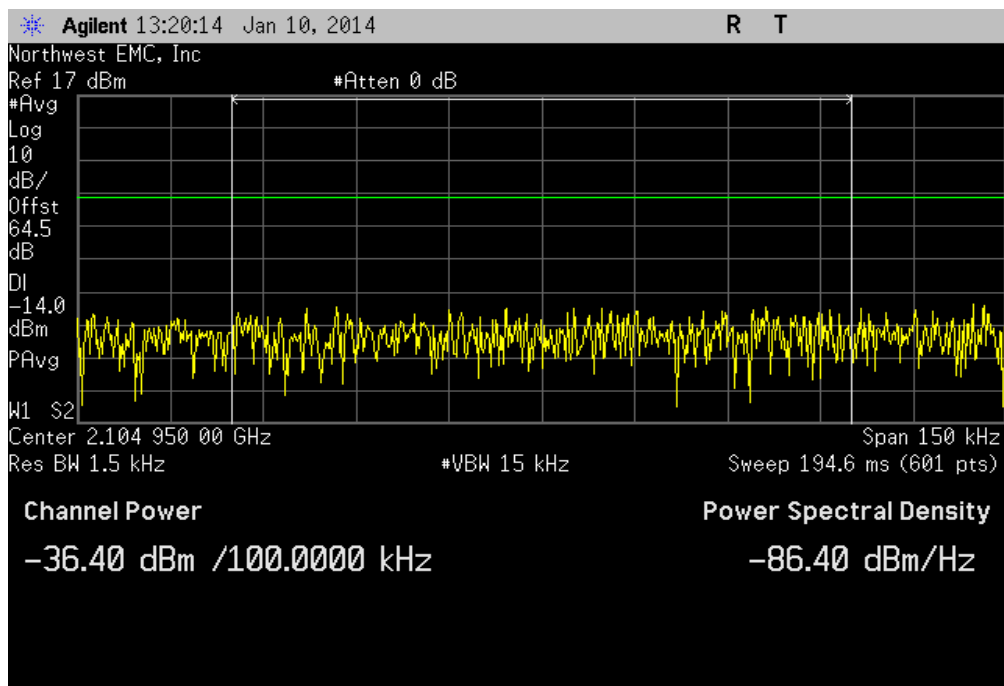
Port B, LTE 5M, Single Carrier, Left Band Edge 2109.95 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -25.81 dBm | -7 dBm | Pass   |



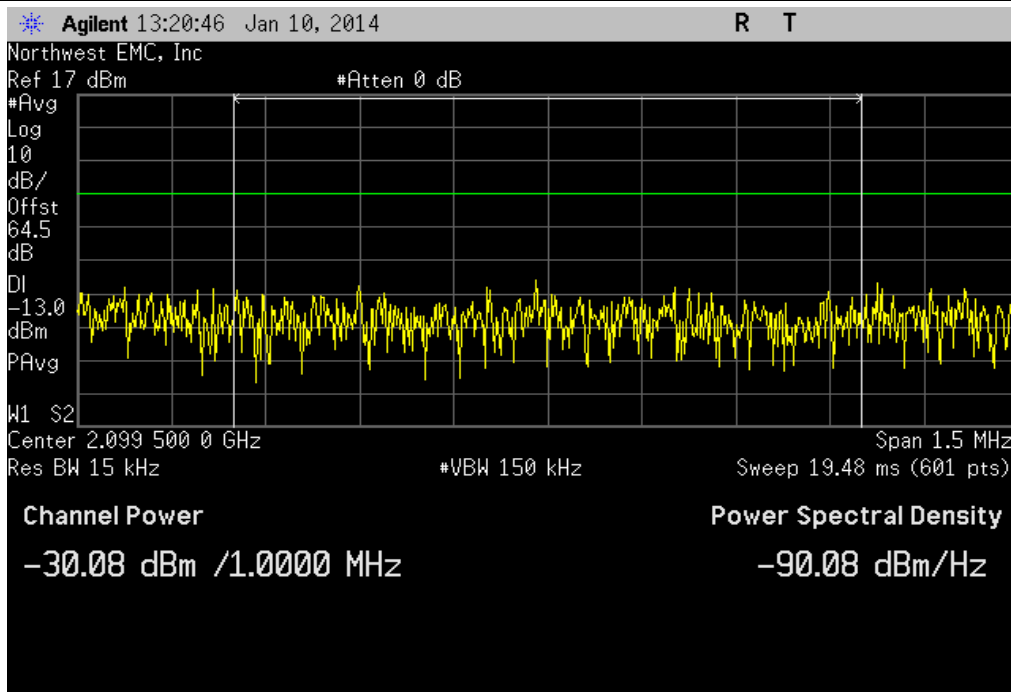
Port B, LTE 5M, Single Carrier, Left Band Edge 2104.95 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -36.40 dBm | -14 dBm | Pass   |



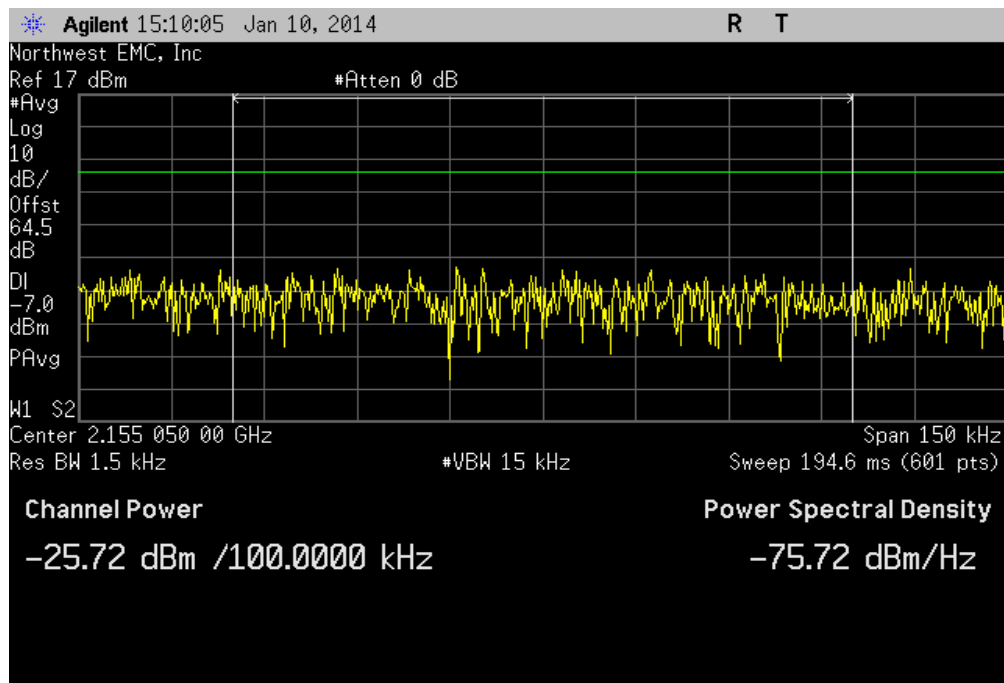
Port B, LTE 5M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.08 dBm | -13 dBm | Pass   |



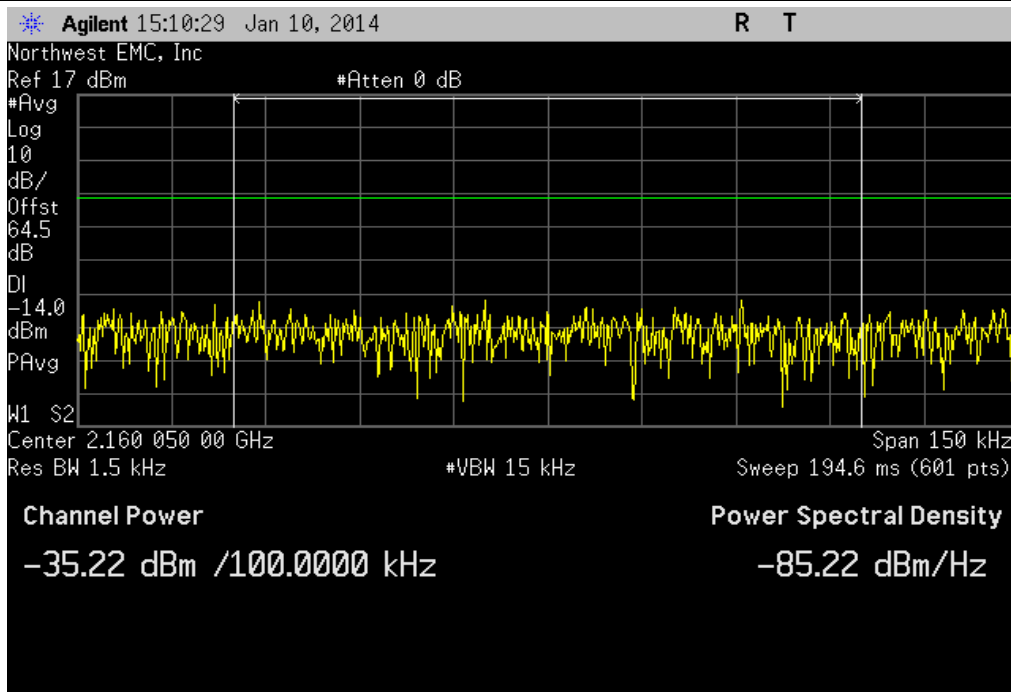
Port B, LTE 5M, Single Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -25.72 dBm | -7 dBm | Pass   |



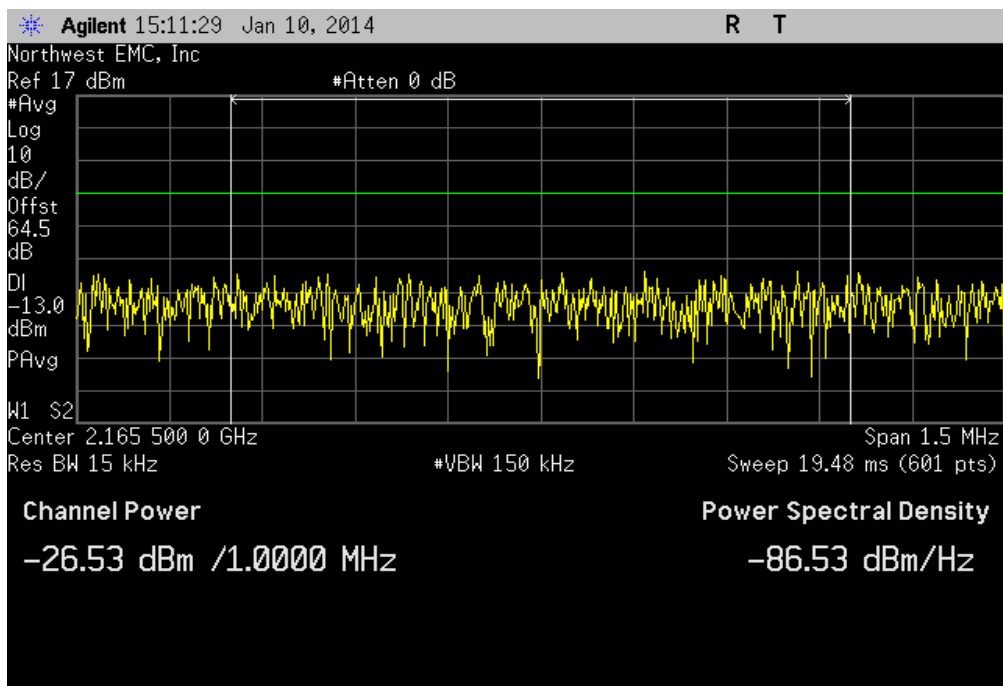
Port B, LTE 5M, Single Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.22 dBm | -14 dBm | Pass   |



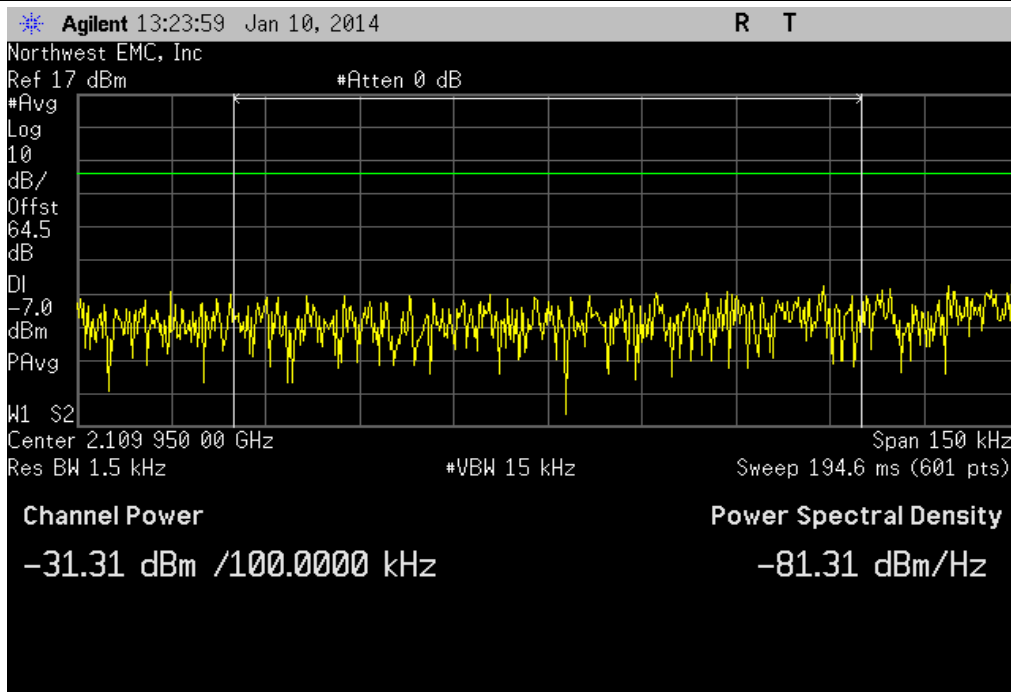
Port B, LTE 5M, Single Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -26.53 dBm | -13 dBm | Pass   |



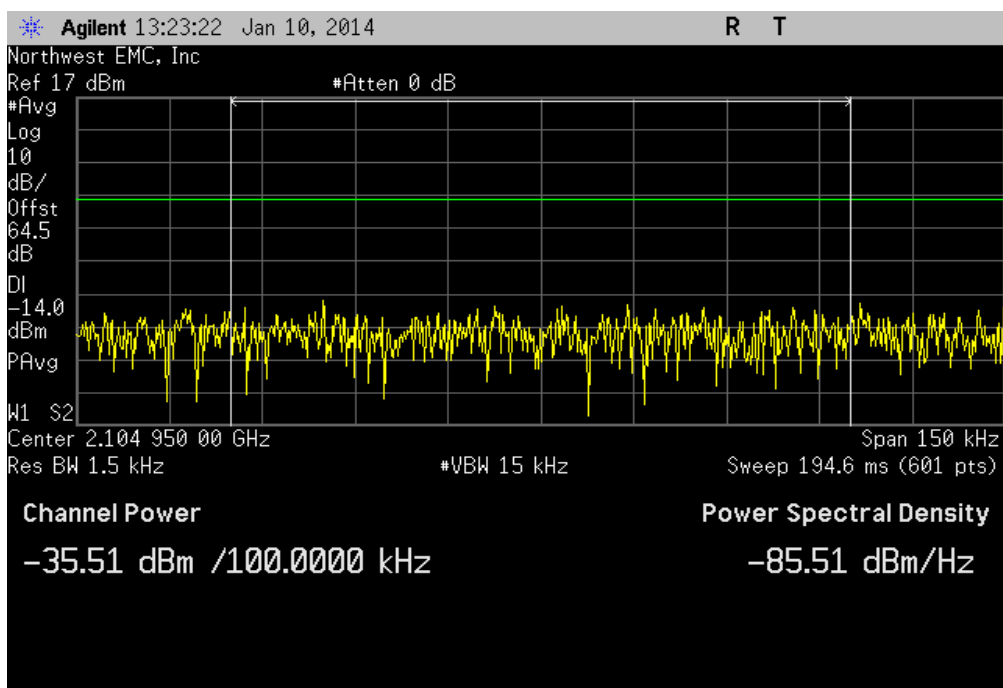
Port B, LTE 5M, Multi Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -31.31 dBm | -7 dBm | Pass   |



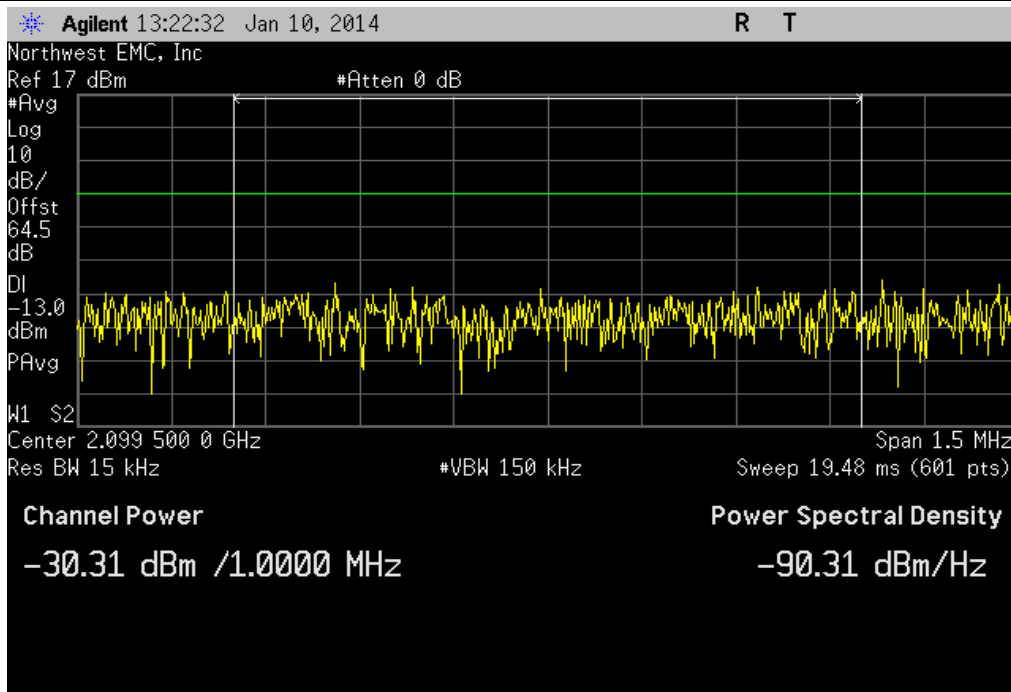
Port B, LTE 5M, Multi Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -35.51 dBm | 14 dBm | Pass   |



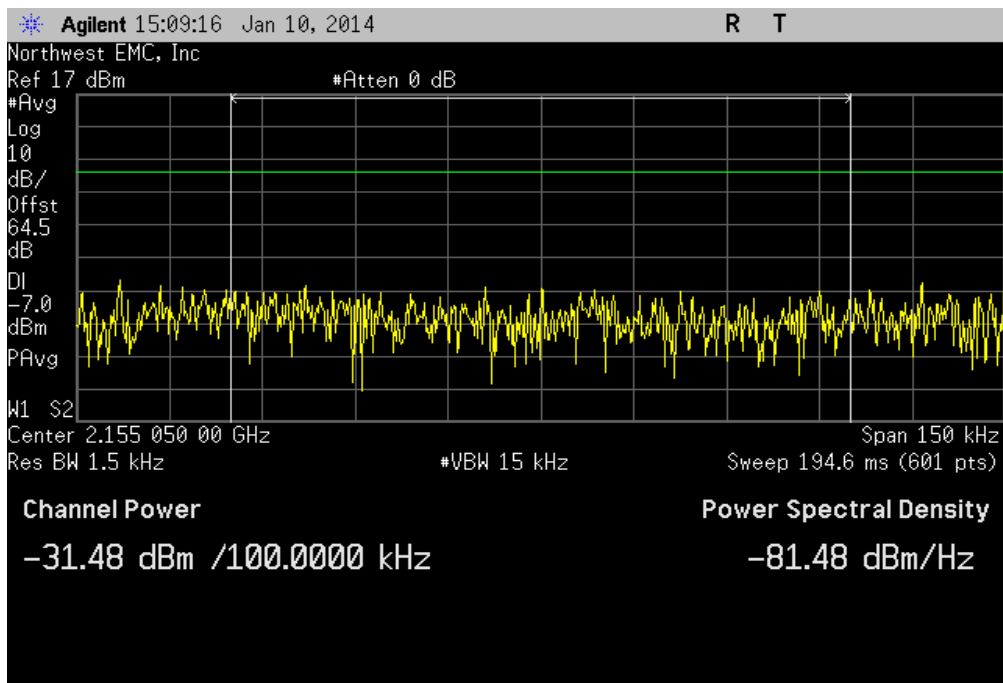
Port B, LTE 5M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.31 dBm | -13 dBm | Pass   |



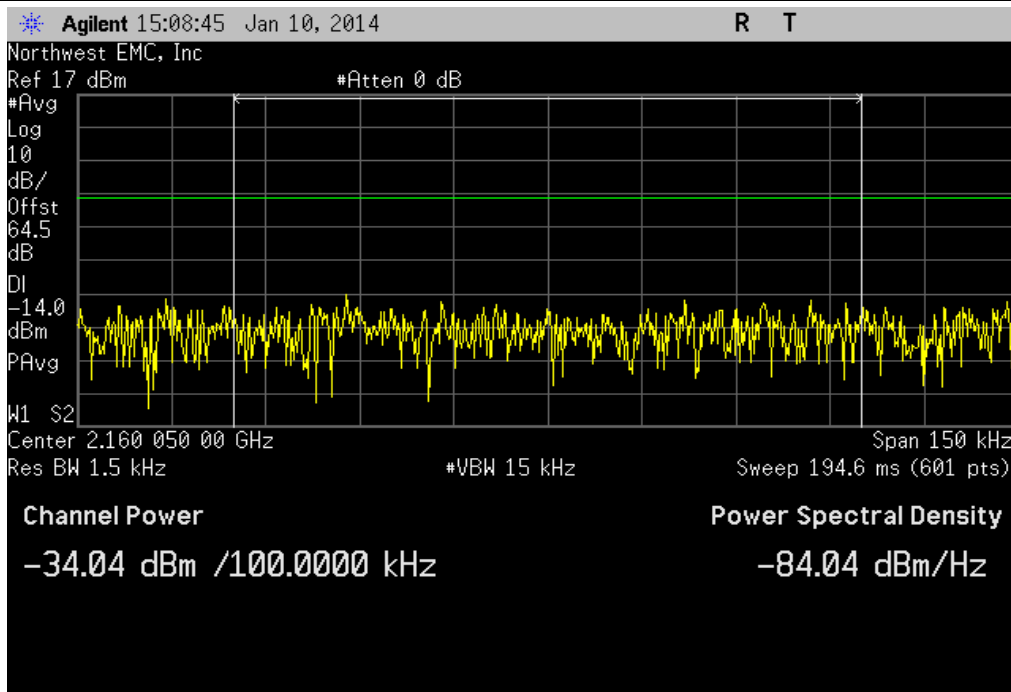
Port B, LTE 5M, Multi Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -31.48 dBm | -7 dBm | Pass   |



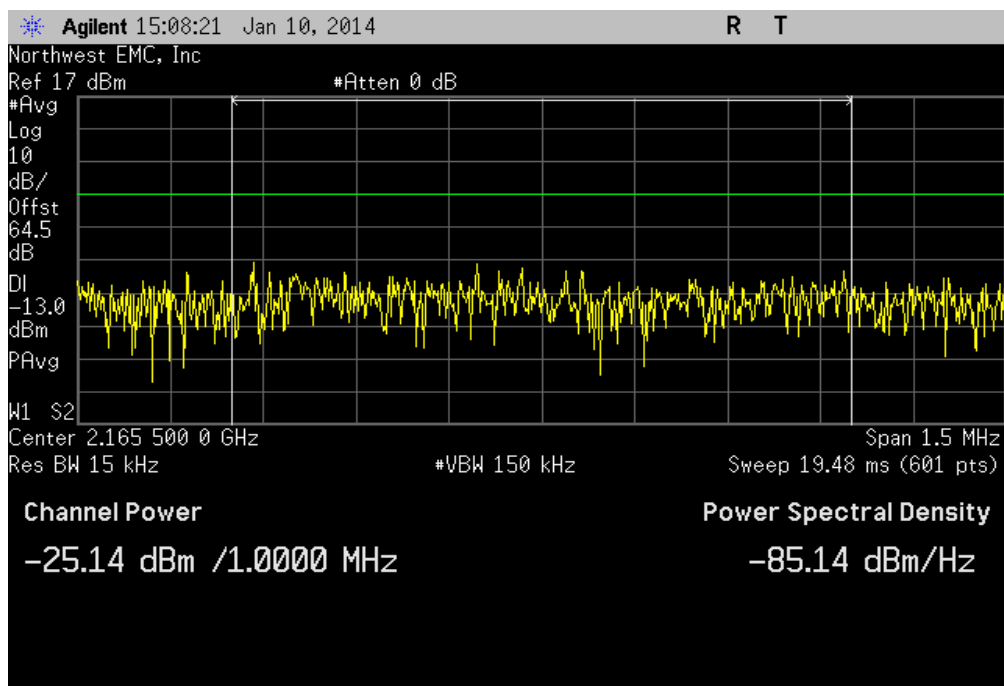
Port B, LTE 5M, Multi Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -34.04 dBm | -7 dBm | Pass   |



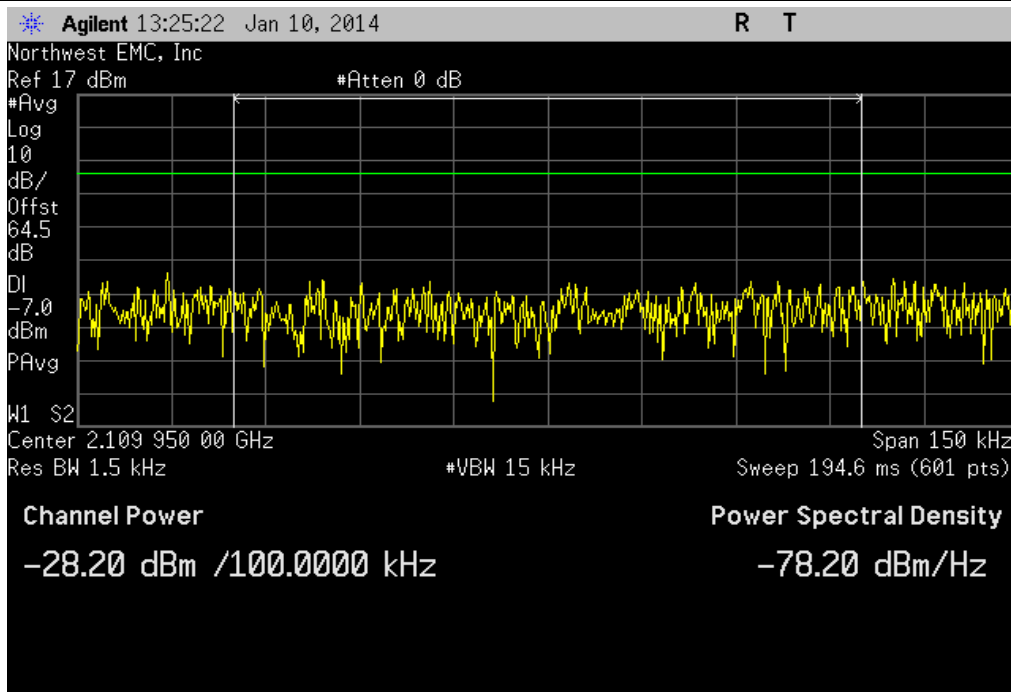
Port B, LTE 5M, Multi Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -25.14 dBm | -13 dBm | Pass   |



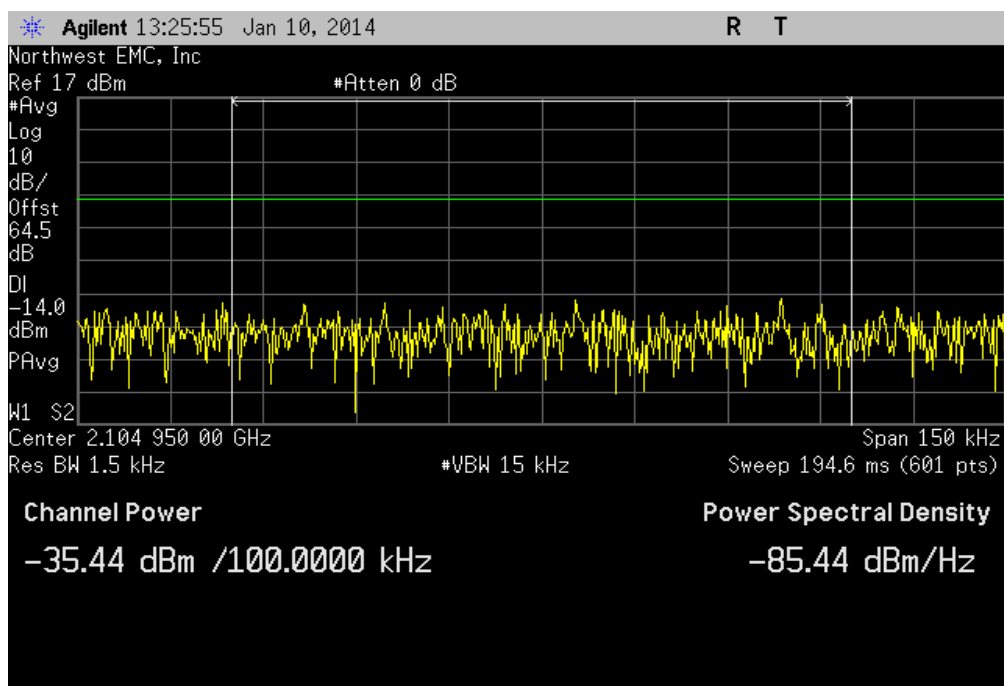
Port B, LTE 10M, Single Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -28.20 dBm | -7 dBm | Pass   |



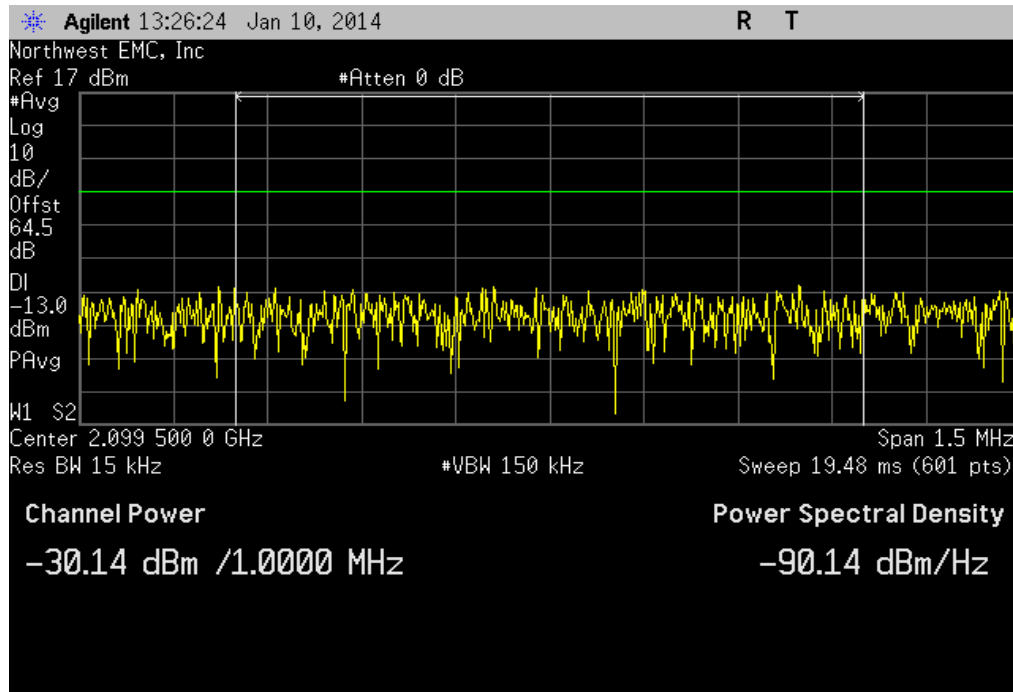
Port B, LTE 10M, Single Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.44 dBm | -14 dBm | Pass   |



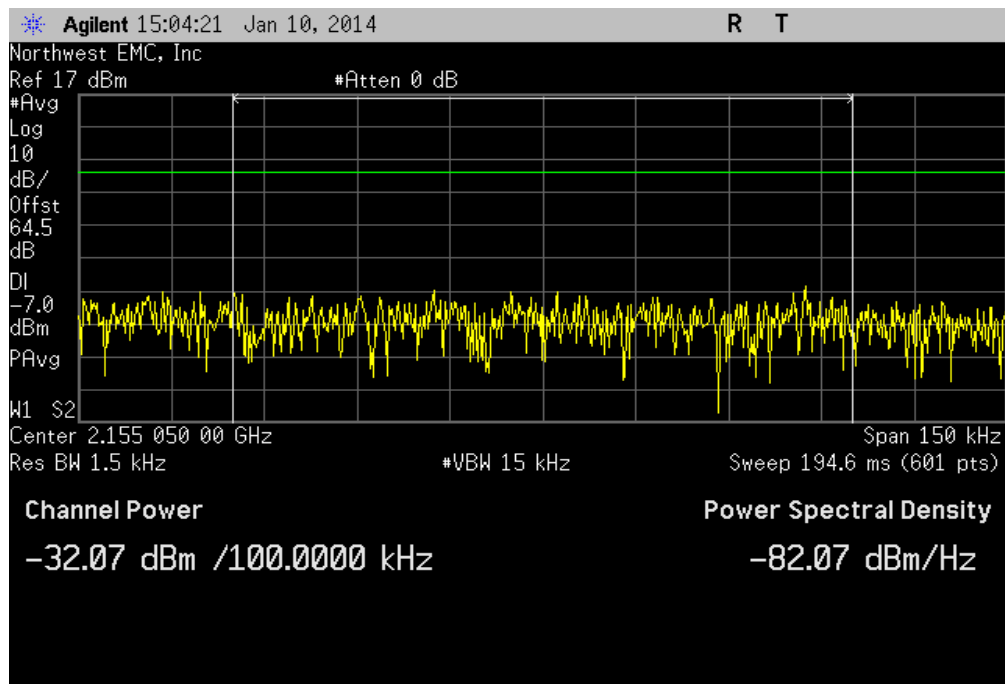
Port B, LTE 10M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.14 dBm | -13 dBm | Pass   |



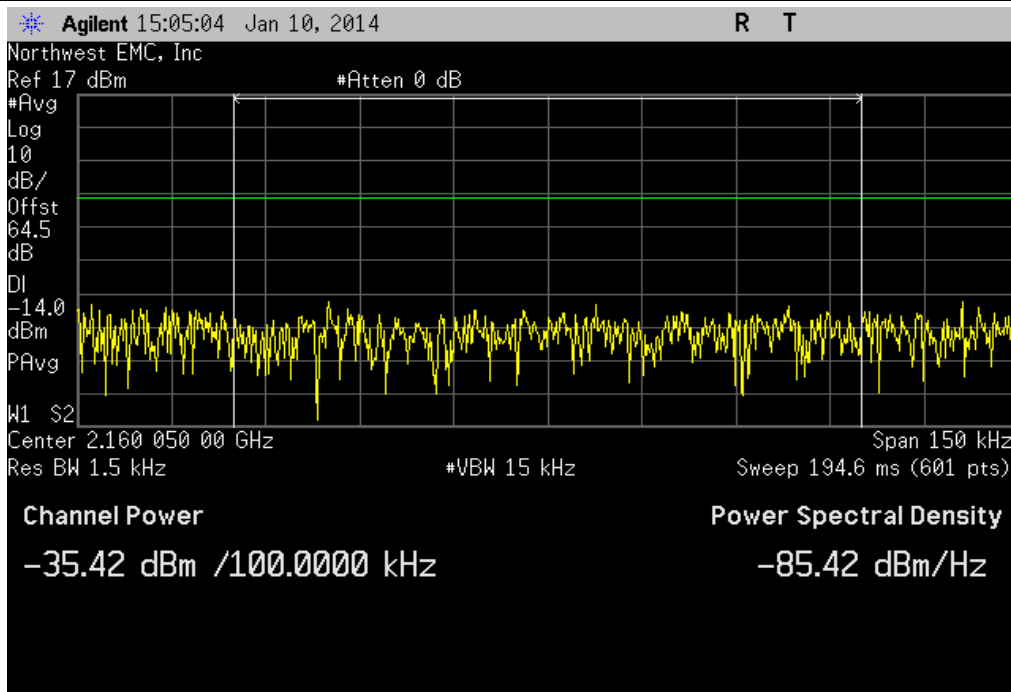
Port B, LTE 10M, Single Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -32.07 dBm | -7 dBm | Pass   |



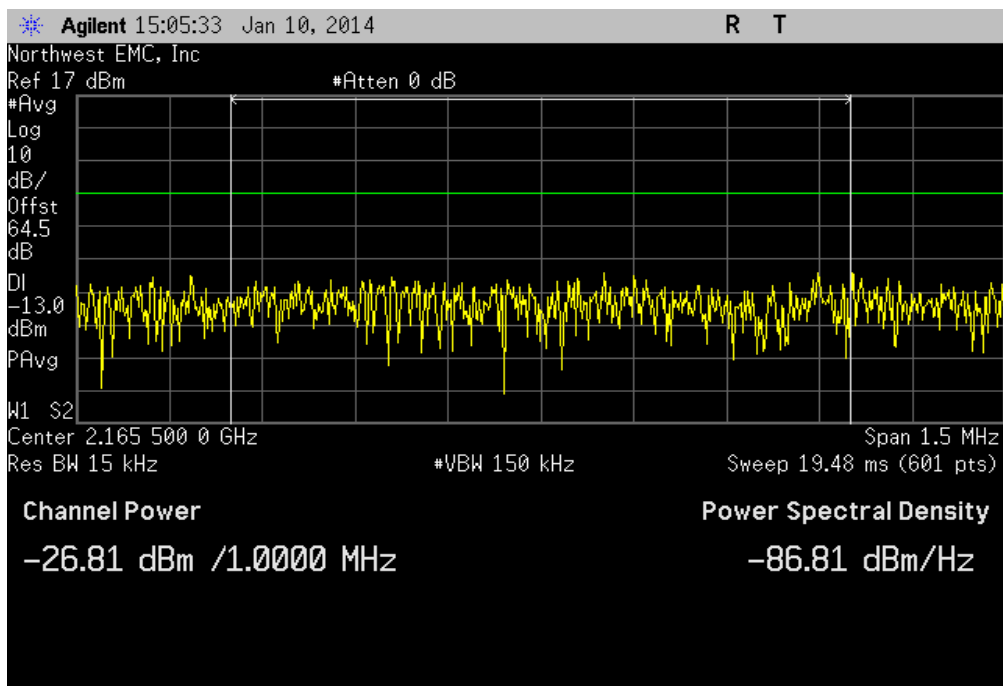
Port B, LTE 10M, Single Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -35.42 dBm | -14 dBm | Pass   |



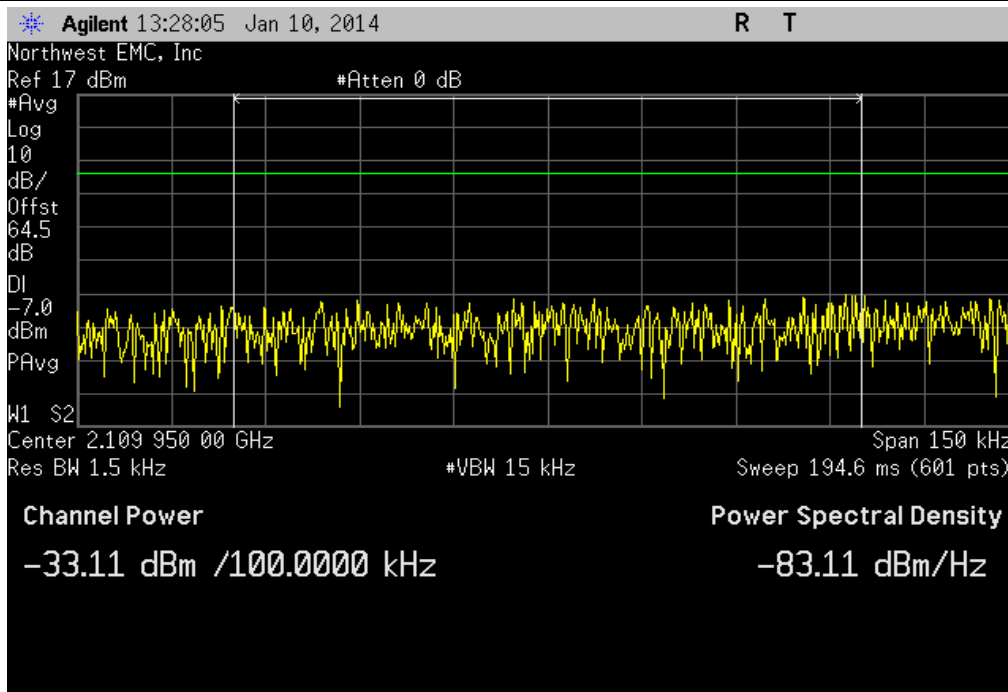
Port B, LTE 10M, Single Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -26.81 dBm | -13 dBm | Pass   |



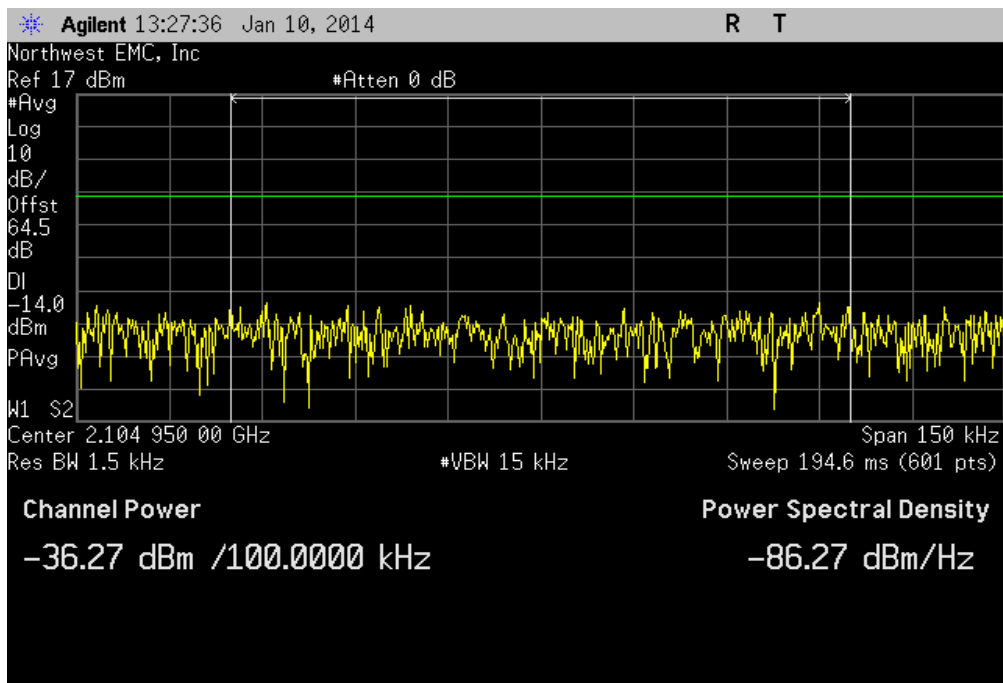
Port B, LTE 10M, Multi Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -33.11 dBm | -7 dBm | Pass   |



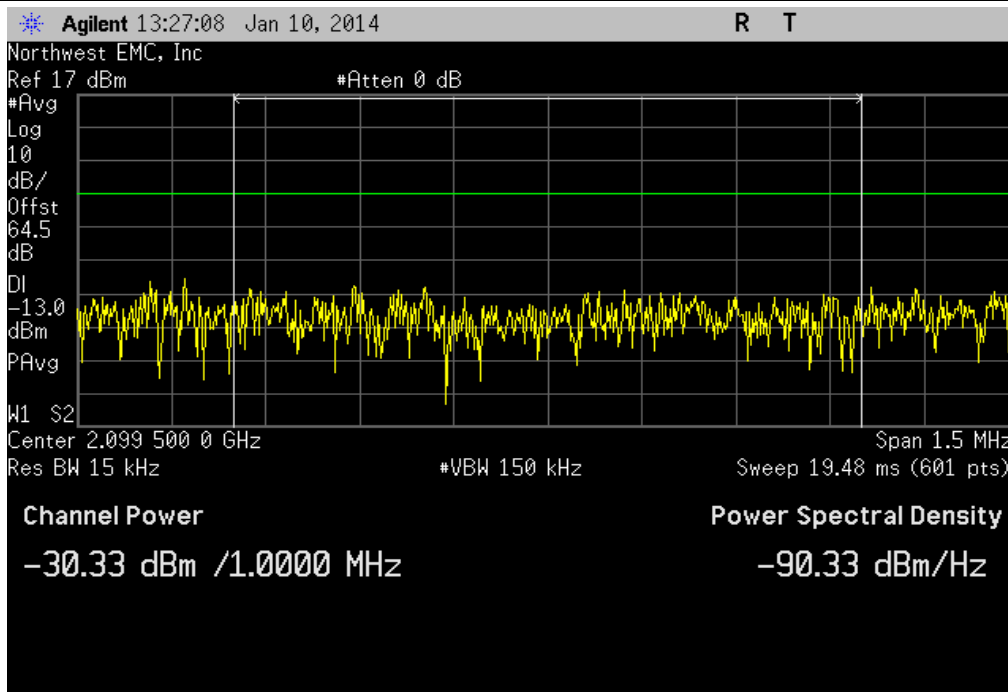
Port B, LTE 10M, Multi Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -36.27 dBm | -14 dBm | Pass   |



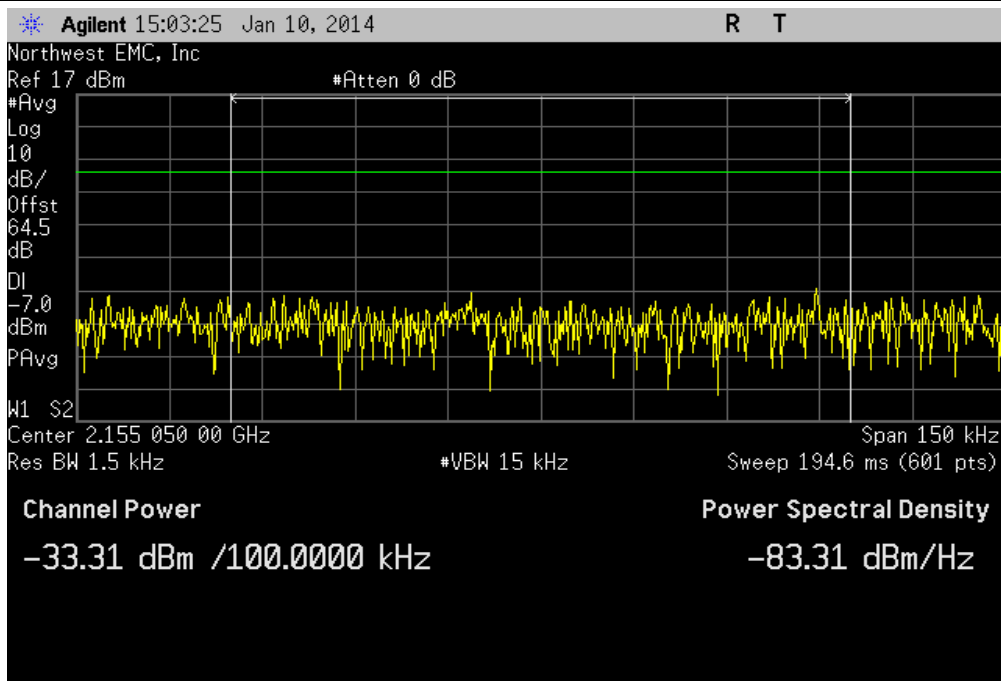
Port B, LTE 10M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.33 dBm | -13 dBm | Pass   |



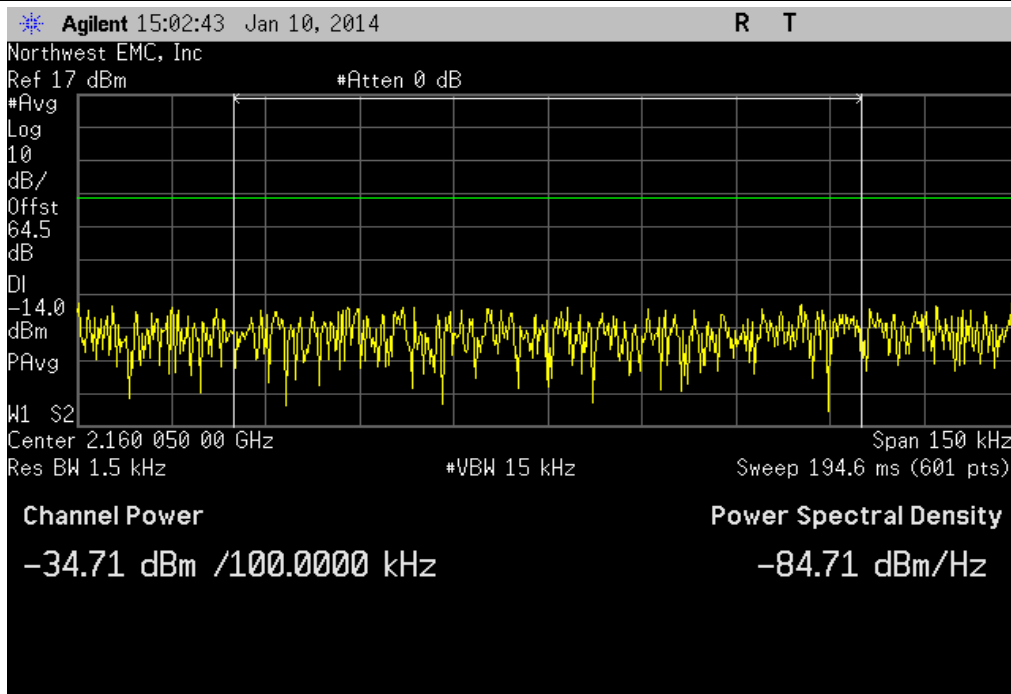
Port B, LTE 10M, Multi Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -33.31 dBm | -7 dBm | Pass   |



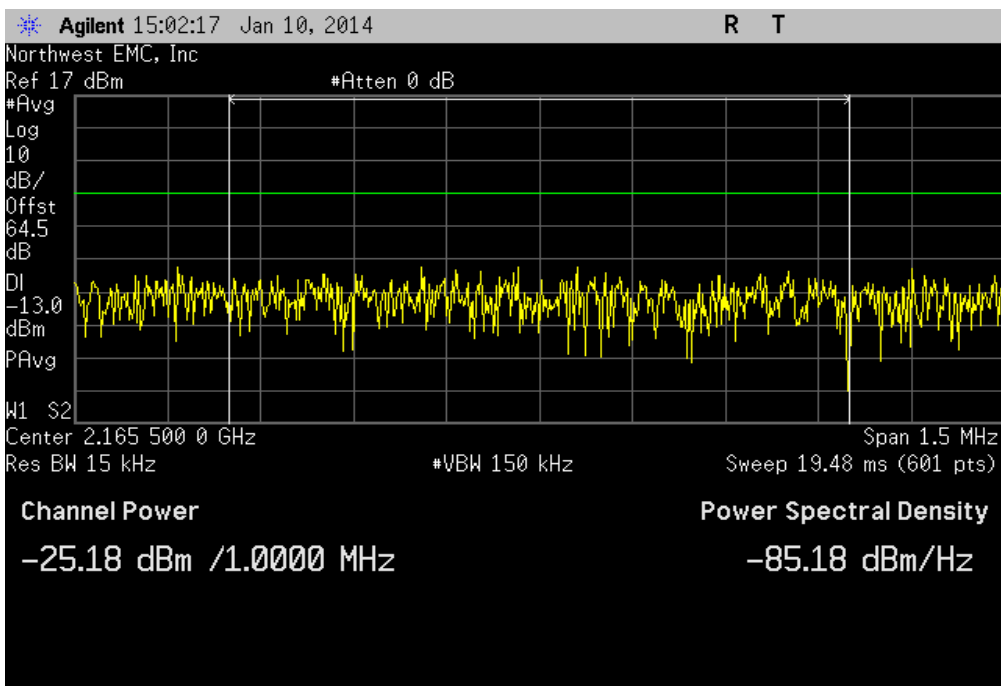
Port B, LTE 10M, Multi Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -34.71 dBm | -14 dBm | Pass   |



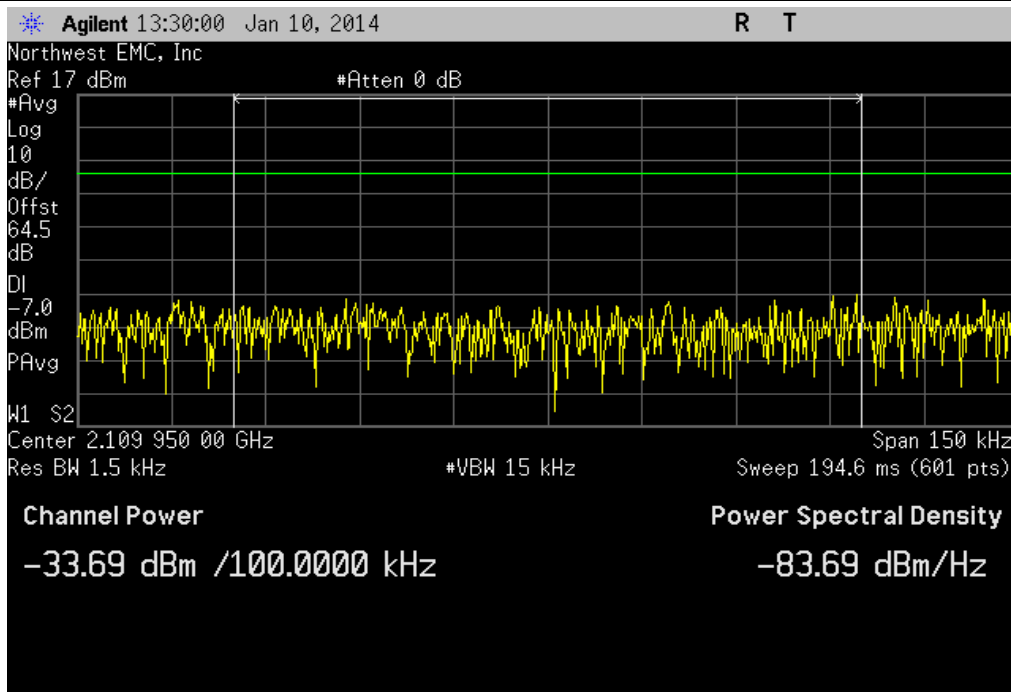
Port B, LTE 10M, Multi Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -25.18 dBm | -13 dBm | Pass   |



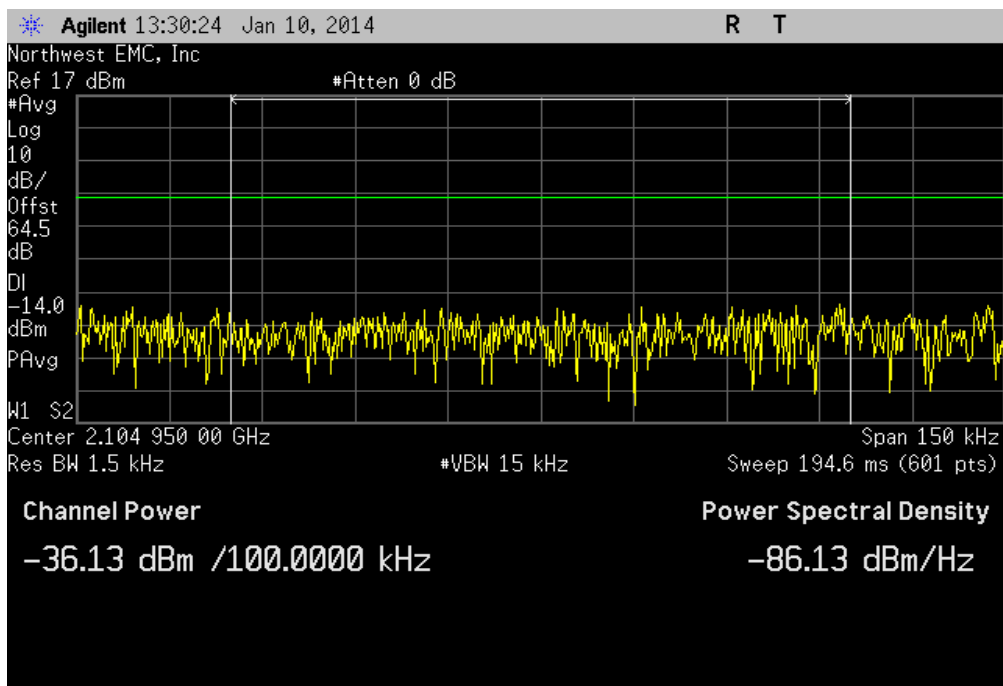
Port B, LTE 15M, Single Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -33.69 dBm | -7 dBm | Pass   |



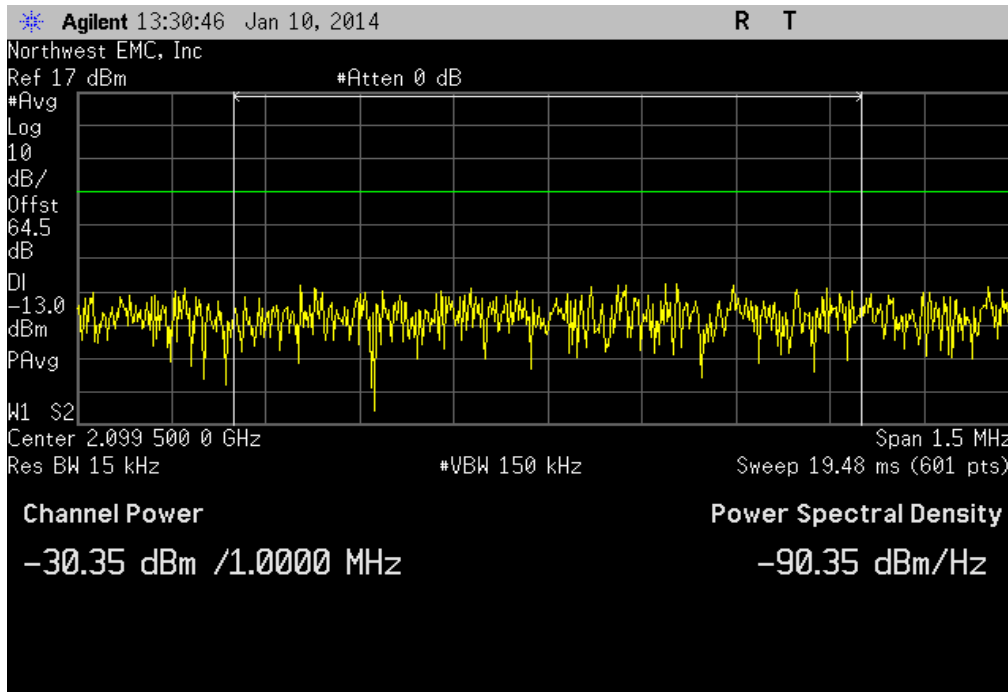
Port B, LTE 15M, Single Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -36.13 dBm | -14 dBm | Pass   |



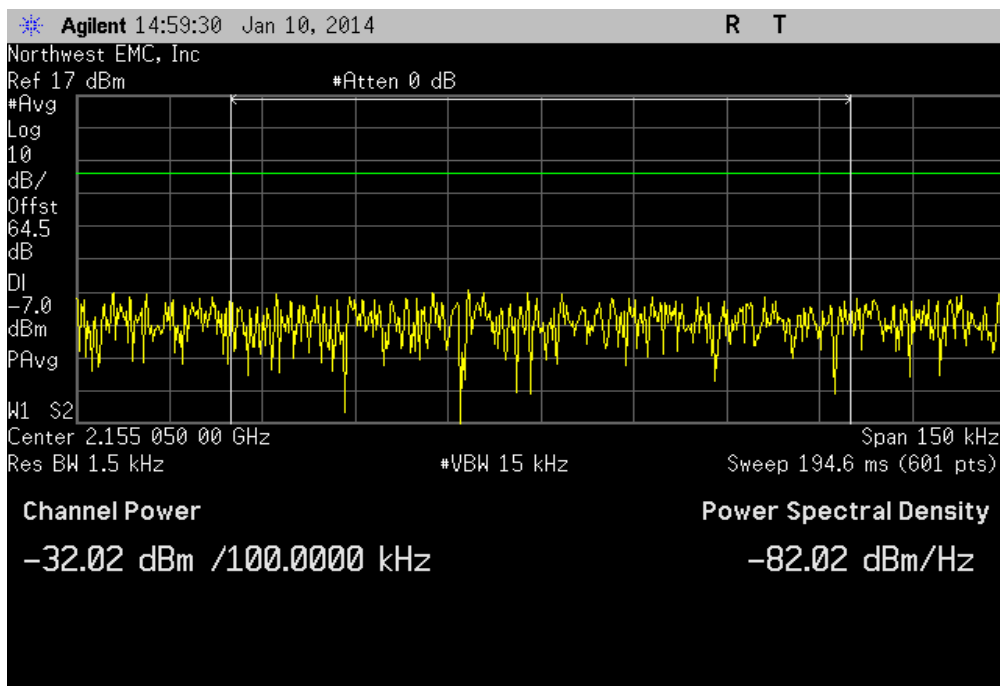
Port B, LTE 15M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.35 dBm | -13 dBm | Pass   |

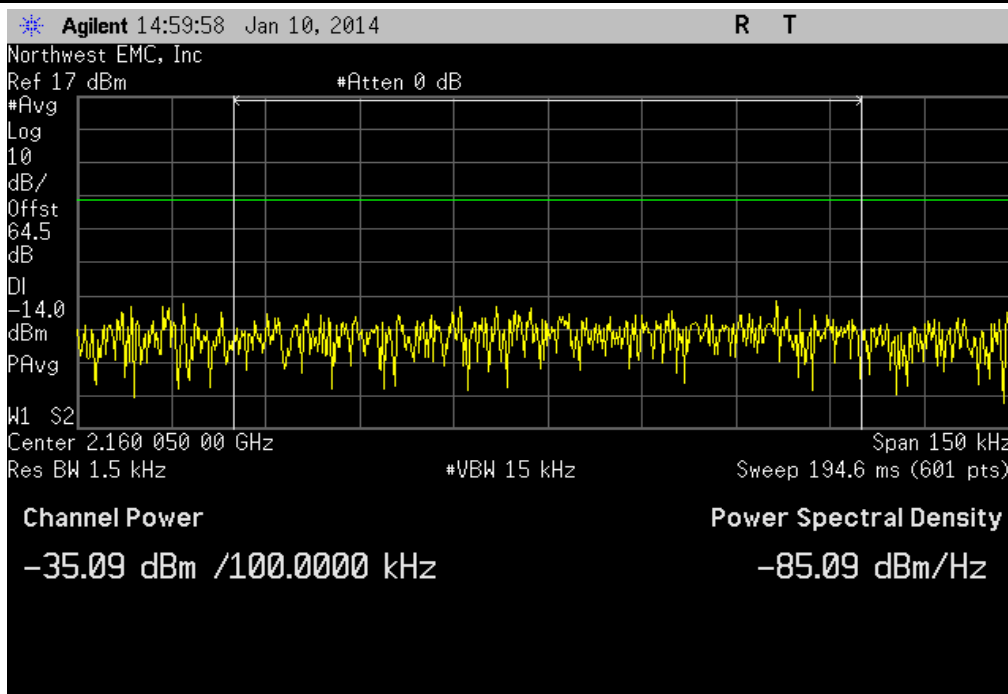


Port B, LTE 15M, Single Carrier, Right Band Edge 2155.05 MHz

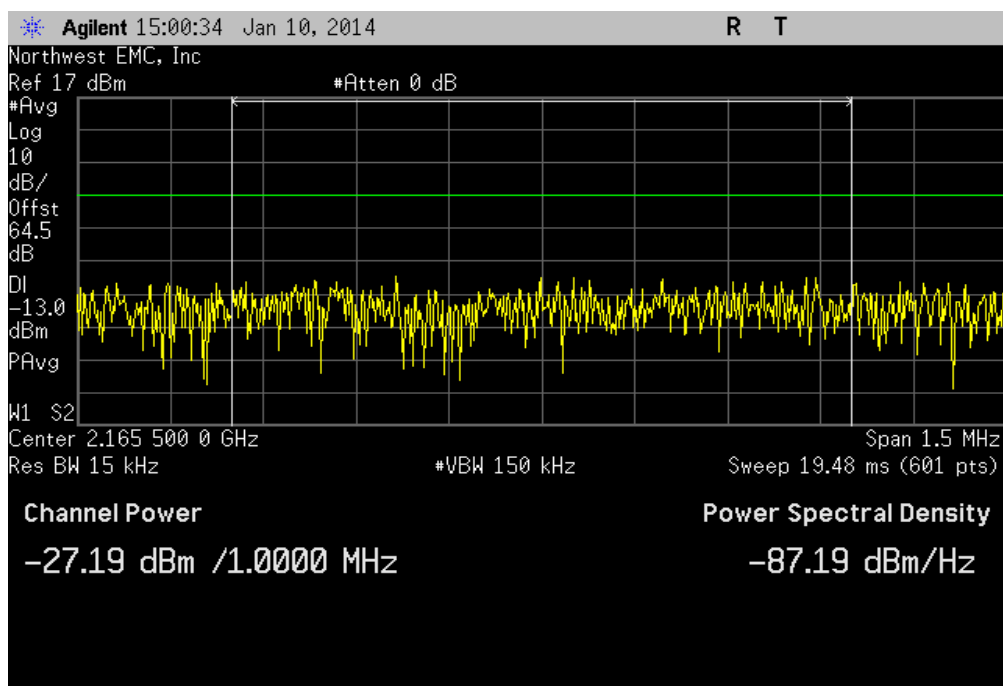
|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -32.02 dBm | -7 dBm | Pass   |



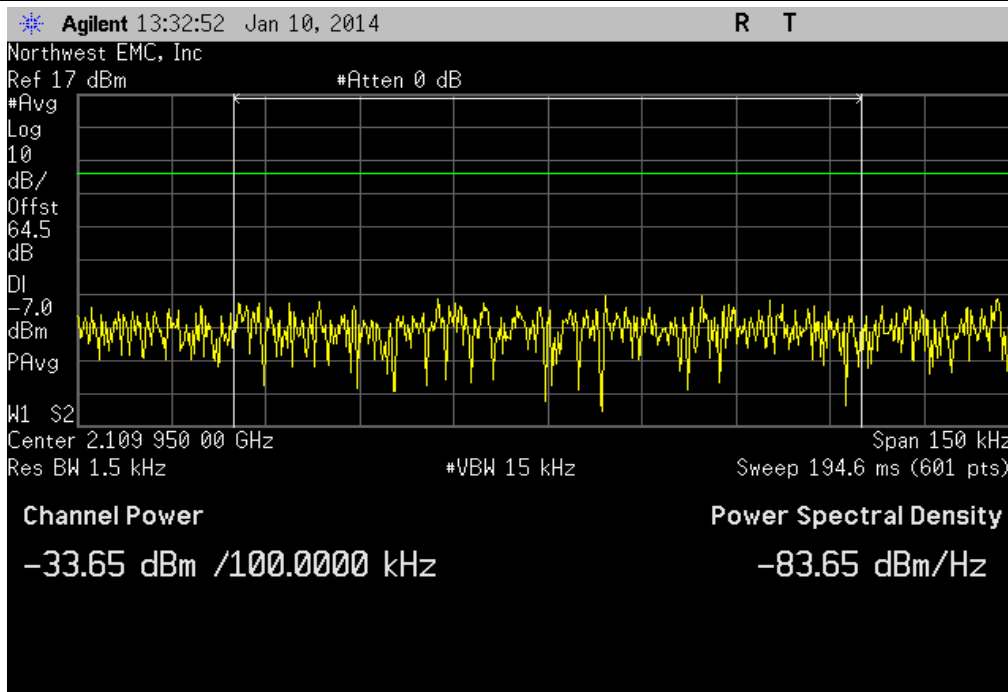
| Port B, LTE 15M, Single Carrier, Right Band Edge 2160.05 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                              |  |  |  | Value      | Limit   | Result |  |
|                                                              |  |  |  | -35.09 dBm | -14 dBm | Pass   |  |



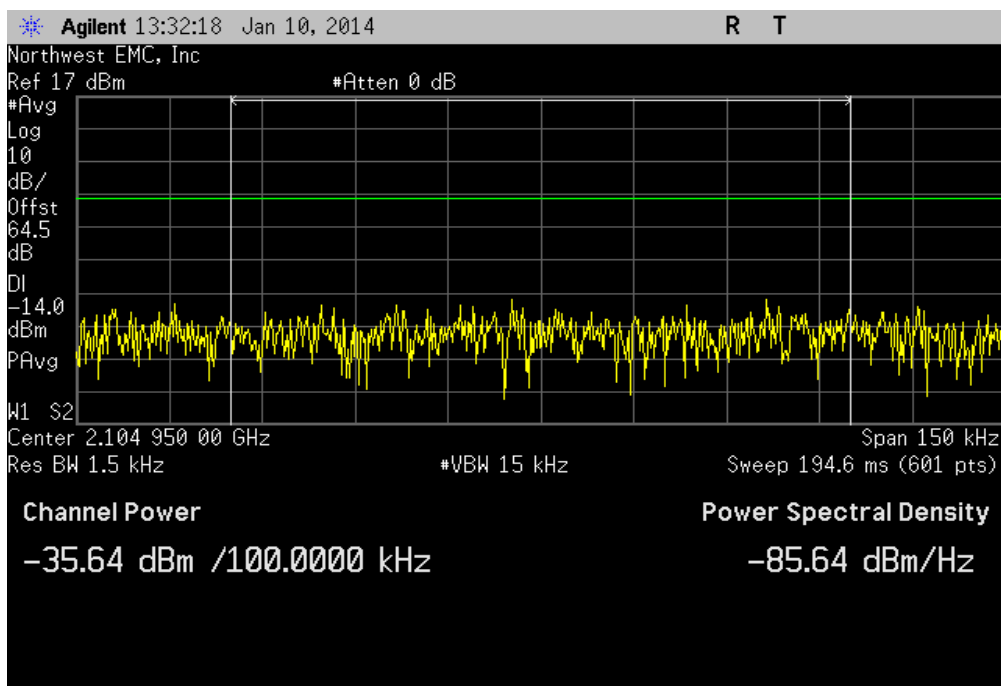
| Port B, LTE 15M, Single Carrier, Right Band Edge 2165.05 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                              |  |  |  | Value      | Limit   | Result |  |
|                                                              |  |  |  | -27.19 dBm | -13 dBm | Pass   |  |



| Port B, LTE 15M, Multi Carrier, Left Band Edge 2109.95 MHz |  |  |  |            |        |        |  |
|------------------------------------------------------------|--|--|--|------------|--------|--------|--|
|                                                            |  |  |  | Value      | Limit  | Result |  |
|                                                            |  |  |  | -33.65 dBm | -7 dBm | Pass   |  |

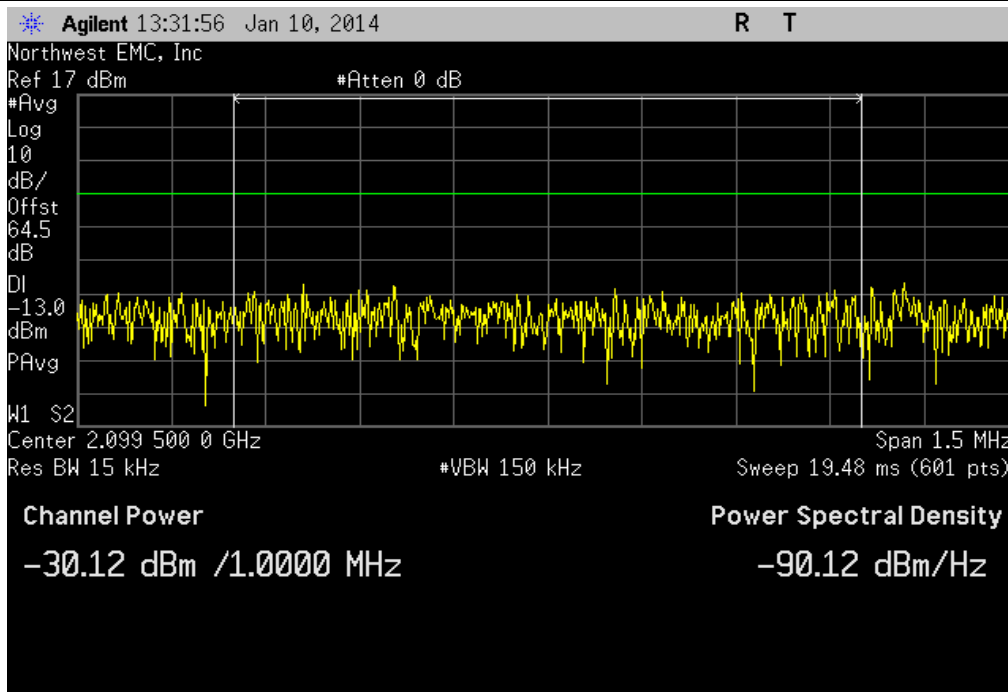


| Port B, LTE 15M, Multi Carrier, Left Band Edge 2104.95 MHz |  |  |  |            |         |        |  |
|------------------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                            |  |  |  | Value      | Limit   | Result |  |
|                                                            |  |  |  | -35.64 dBm | -14 dBm | Pass   |  |



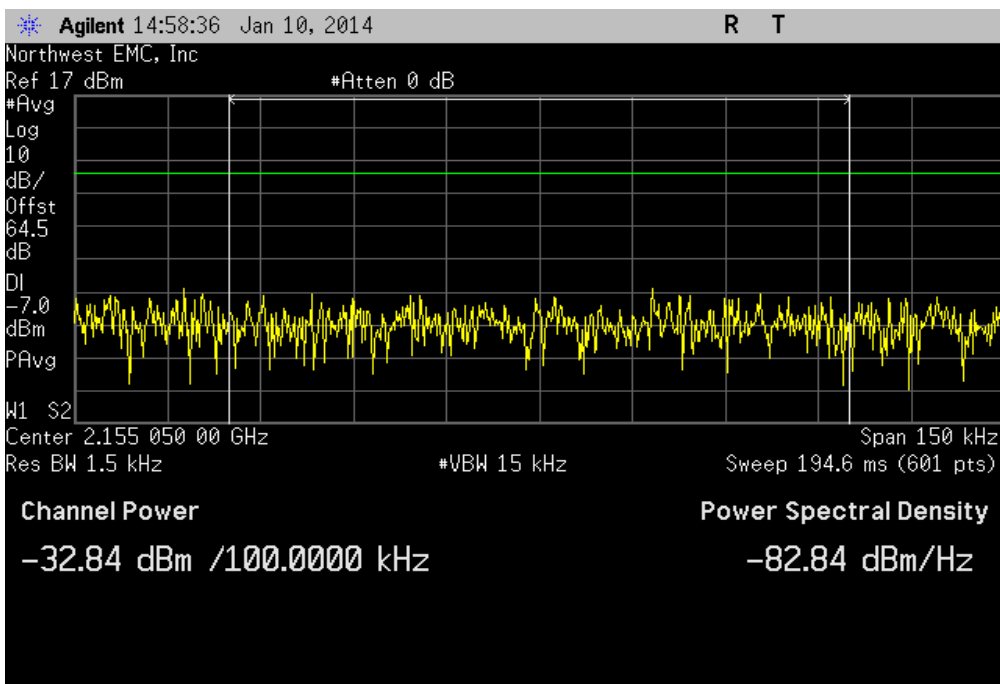
Port B, LTE 15M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.12 dBm | -13 dBm | Pass   |



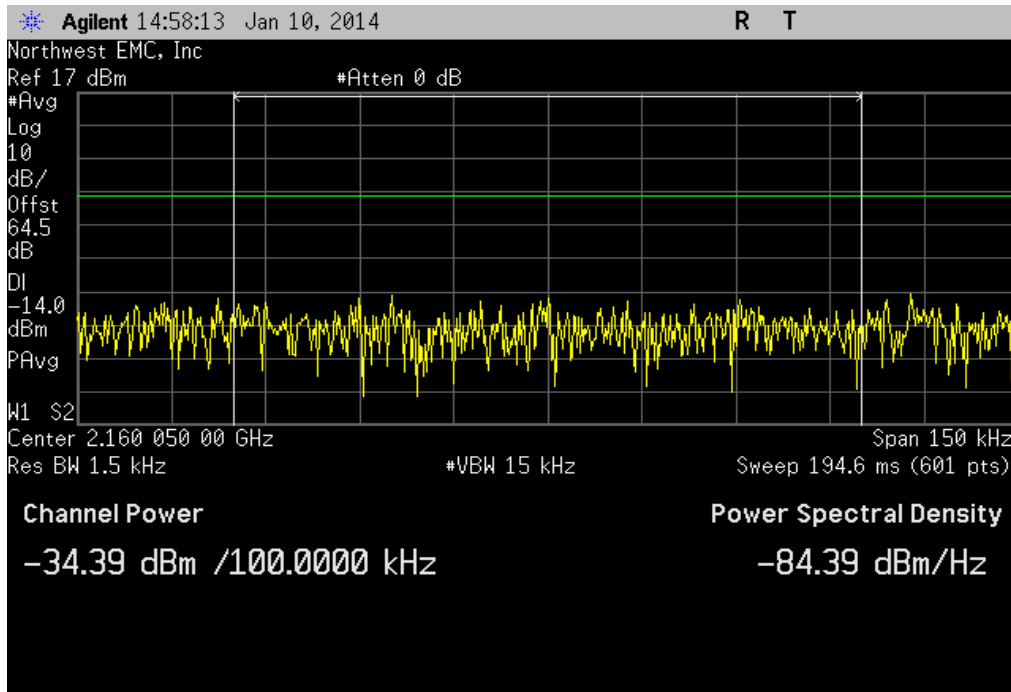
Port B, LTE 15M, Multi Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -32.84 dBm | -7 dBm | Pass   |



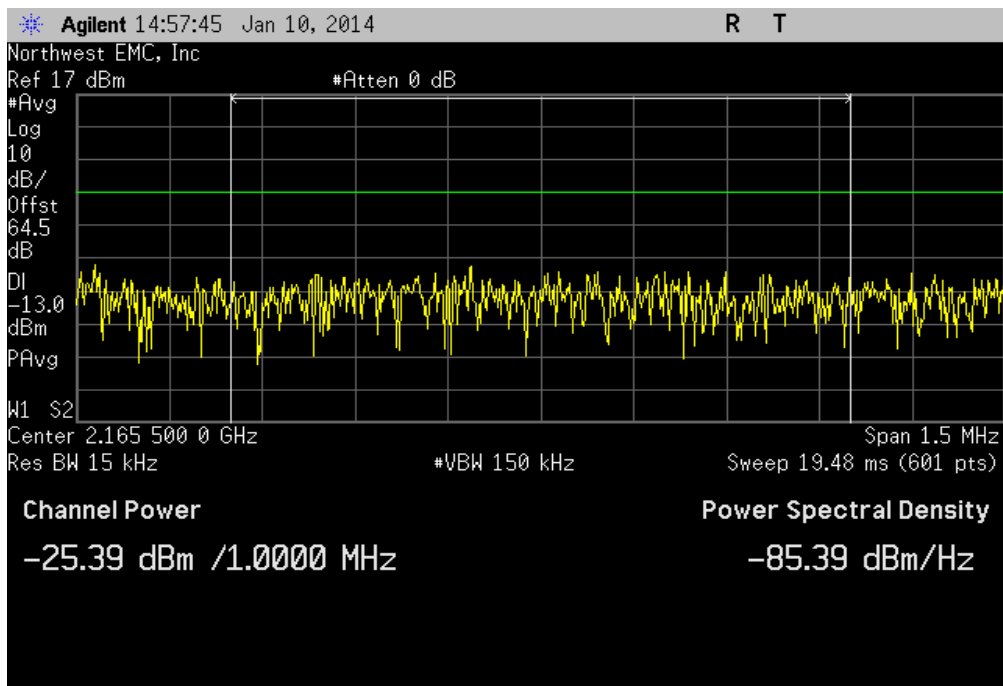
Port B, LTE 15M, Multi Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -34.39 dBm | -14 dBm | Pass   |



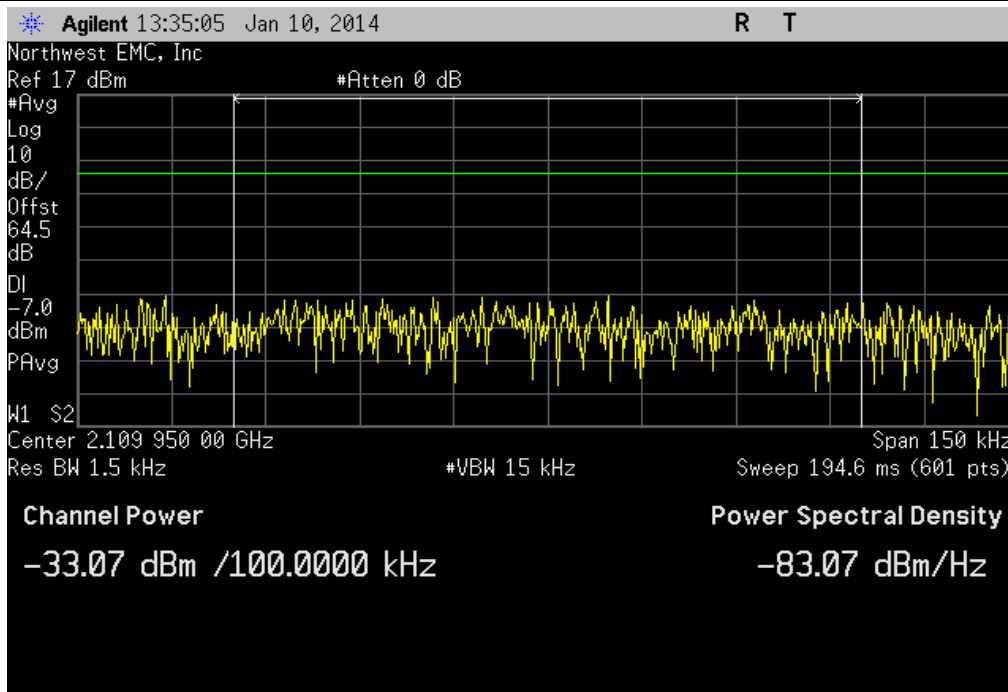
Port B, LTE 15M, Multi Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -25.39 dBm | -13 dBm | Pass   |



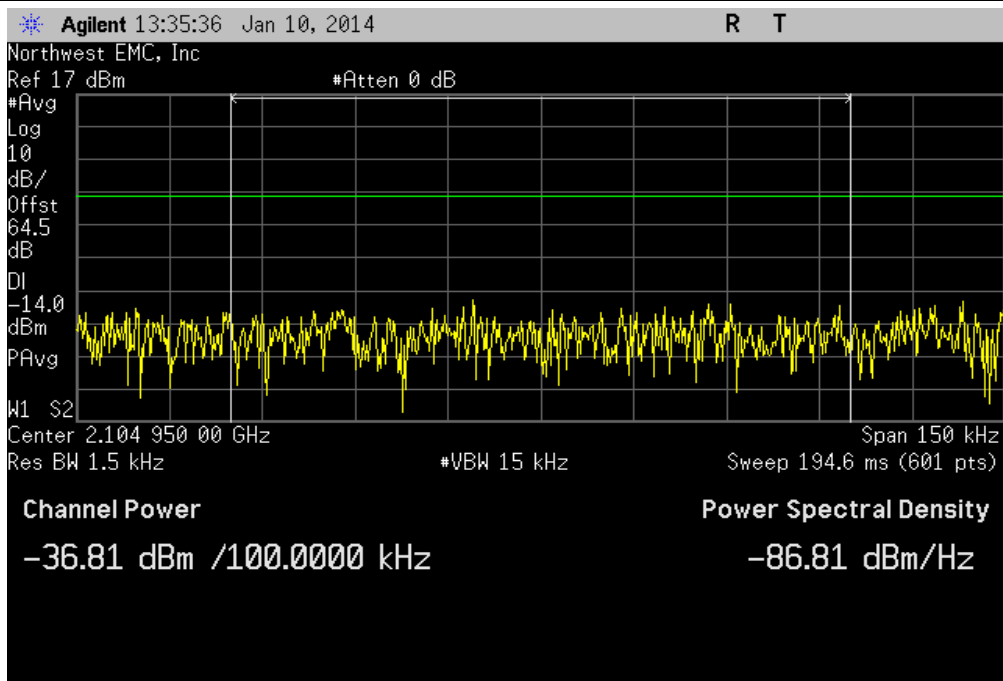
Port B, LTE 20M, Single Carrier, Left Band Edge 2109.95 MHz

| Value      | Limit  | Result |
|------------|--------|--------|
| -33.07 dBm | -7 dBm | Pass   |



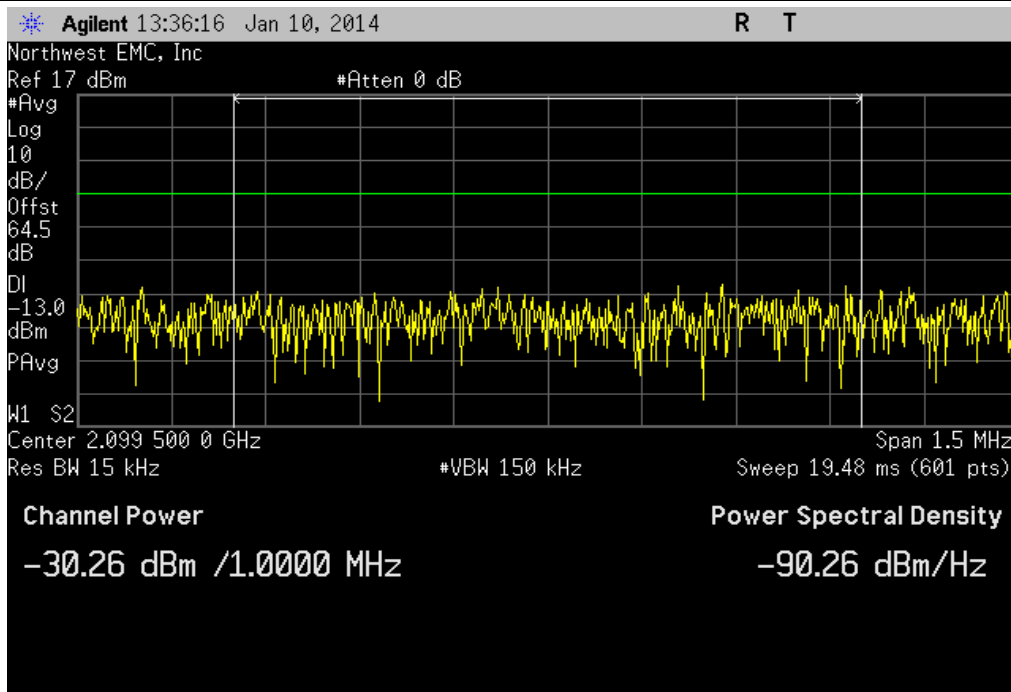
Port B, LTE 20M, Single Carrier, Left Band Edge 2104.95 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -36.81 dBm | -14 dBm | Pass   |



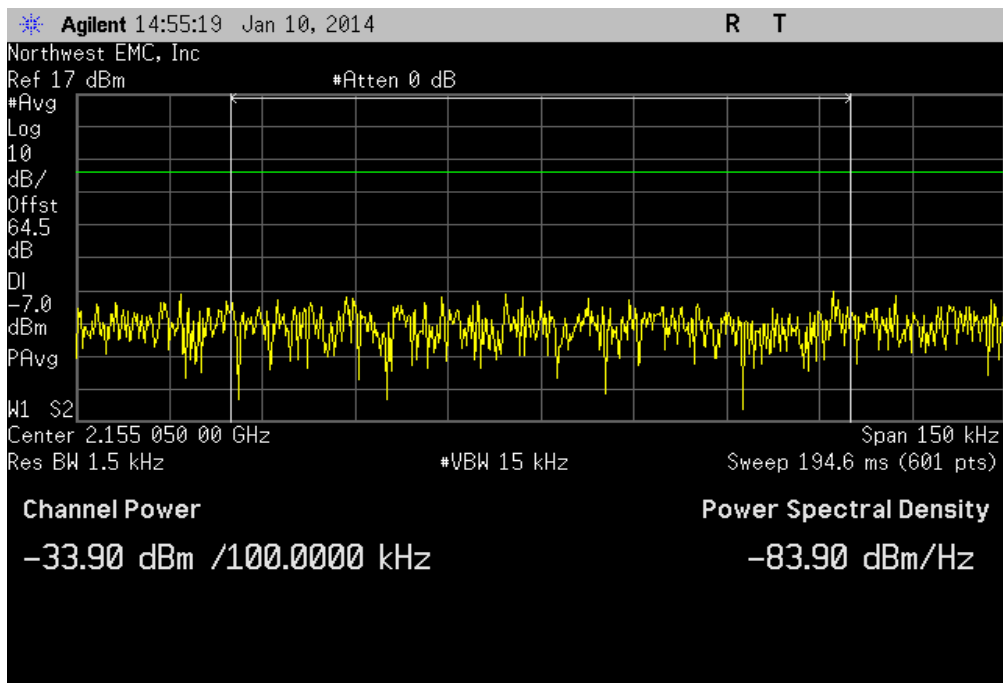
Port B, LTE 20M, Single Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.26 dBm | -13 dBm | Pass   |



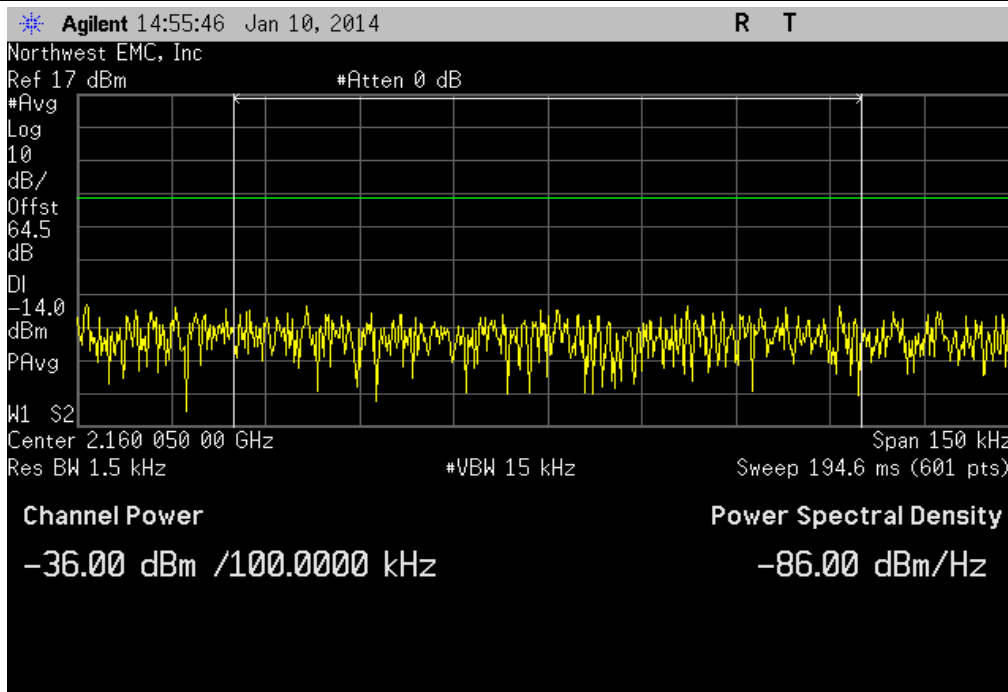
Port B, LTE 20M, Single Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -33.90 dBm | -7 dBm | Pass   |



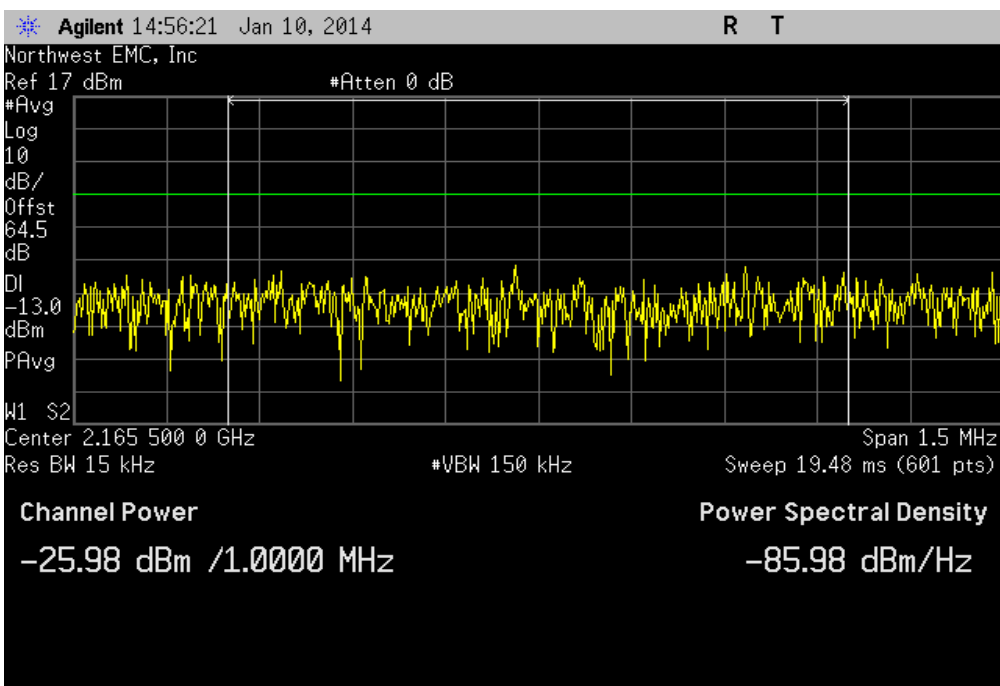
Port B, LTE 20M, Single Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -36.00 dBm | -14 dBm | Pass   |



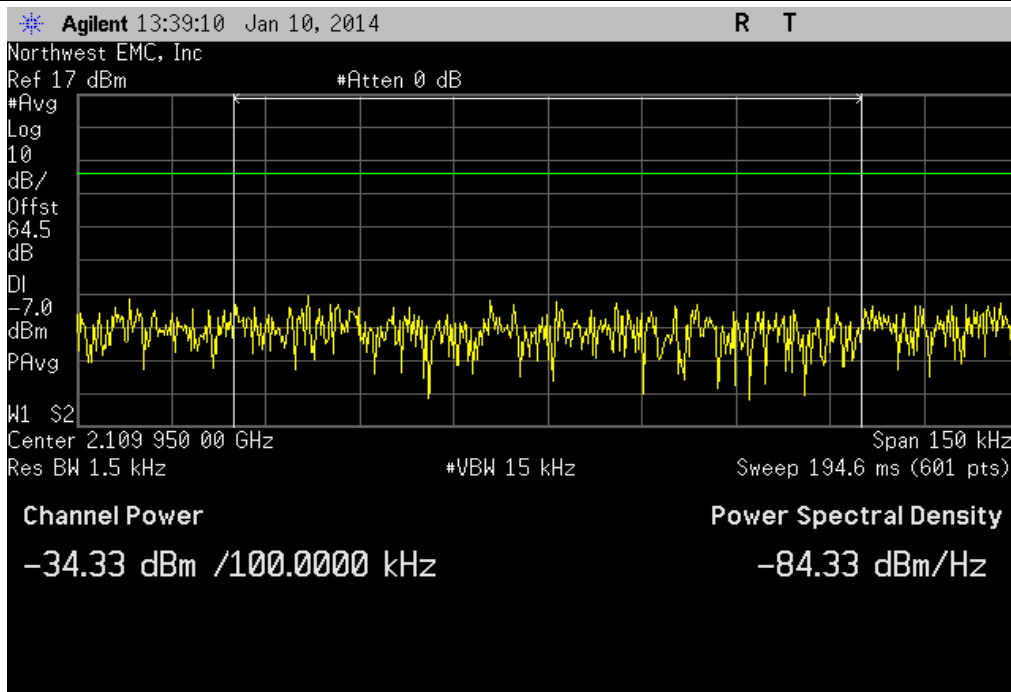
Port B, LTE 20M, Single Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -25.98 dBm | -13 dBm | Pass   |



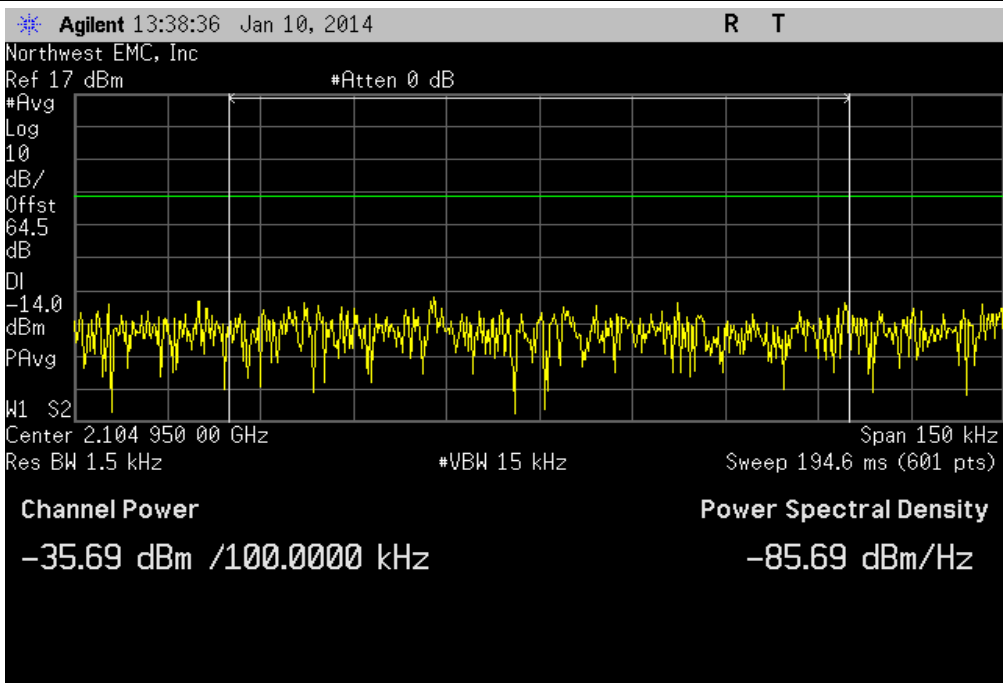
Port B, LTE 20M, Multi Carrier, Left Band Edge 2109.95 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -34.33 dBm | -7 dBm | Pass   |



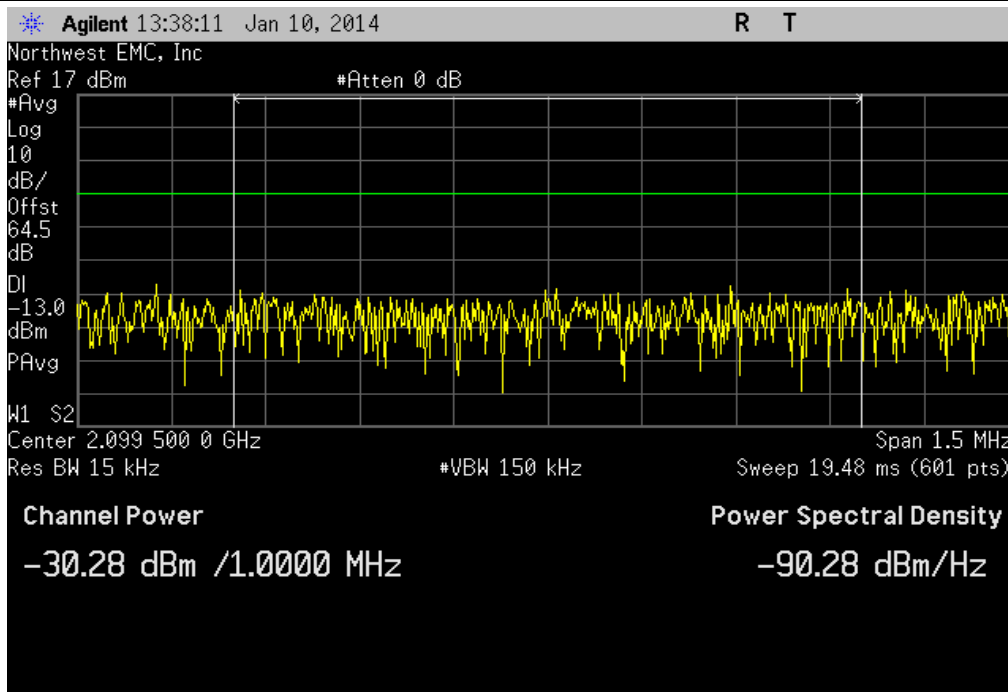
Port B, LTE 20M, Multi Carrier, Left Band Edge 2104.95 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -35.69 dBm | -14 dBm | Pass   |



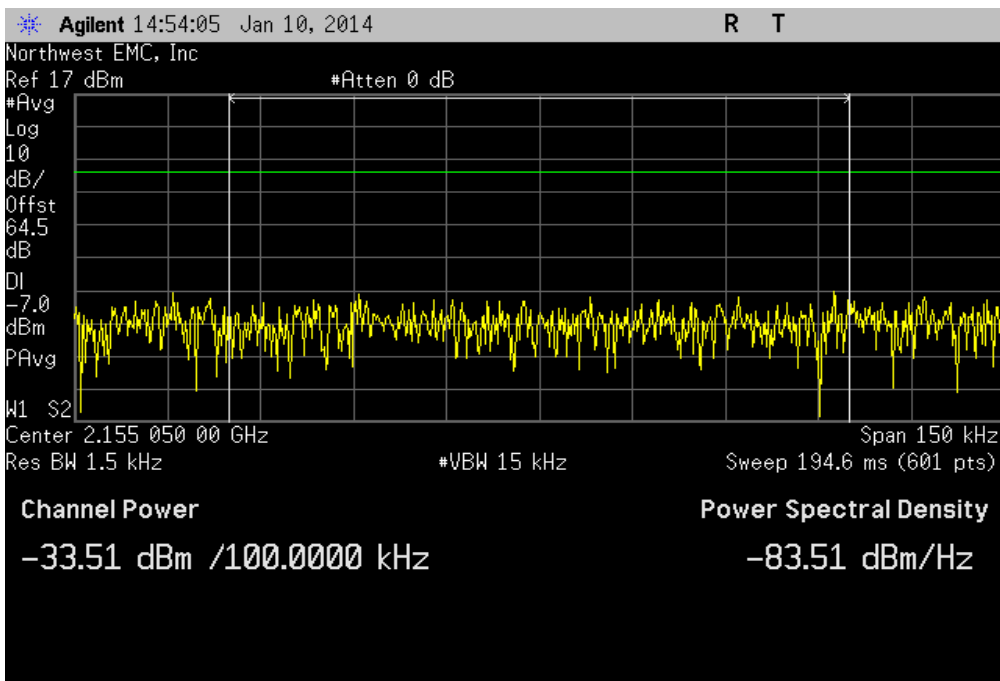
Port B, LTE 20M, Multi Carrier, Left Band Edge 2099.5 MHz

|  |  |  |  |  | Value      | Limit   | Result |
|--|--|--|--|--|------------|---------|--------|
|  |  |  |  |  | -30.28 dBm | -13 dBm | Pass   |



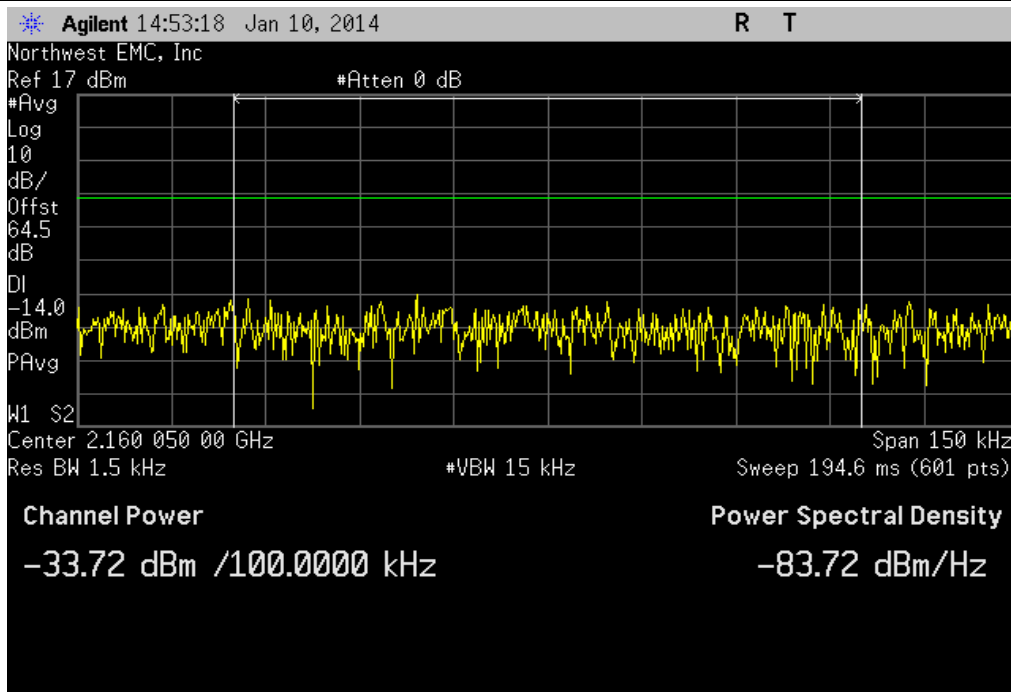
Port B, LTE 20M, Multi Carrier, Right Band Edge 2155.05 MHz

|  |  |  |  |  | Value      | Limit  | Result |
|--|--|--|--|--|------------|--------|--------|
|  |  |  |  |  | -33.51 dBm | -7 dBm | Pass   |



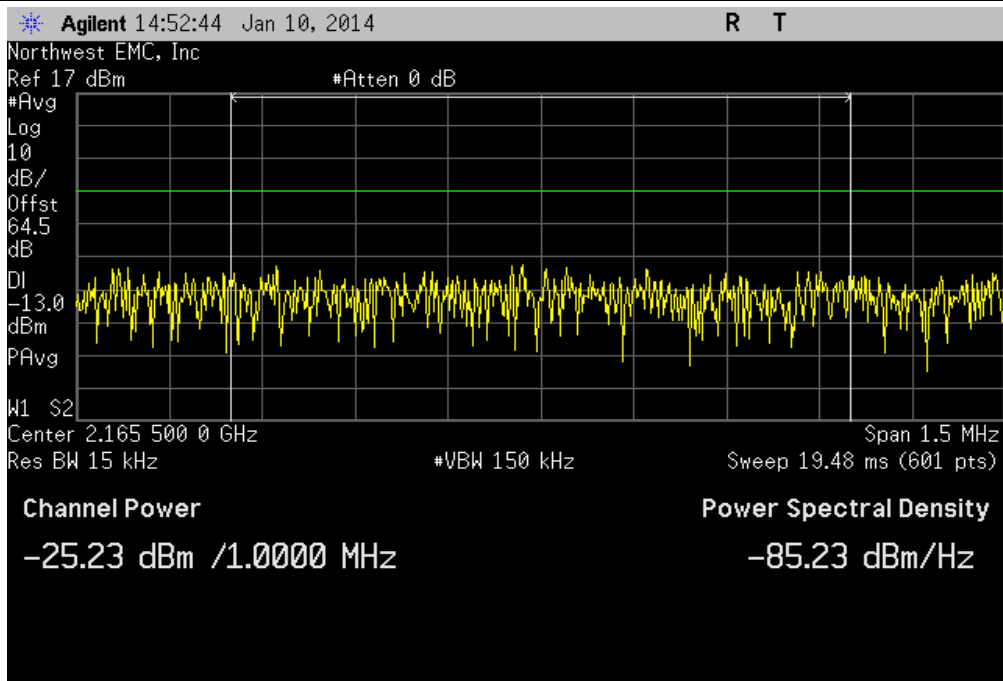
Port B, LTE 20M, Multi Carrier, Right Band Edge 2160.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -33.72 dBm | -14 dBm | Pass   |



Port B, LTE 20M, Multi Carrier, Right Band Edge 2165.05 MHz

| Value      | Limit   | Result |
|------------|---------|--------|
| -25.23 dBm | -13 dBm | Pass   |



## SPURIOUS EMISSIONS AT THE ANTENNA TERMINALS

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 |
|-------------------|-----------------|--------|-----|-----------|----------|
| Spectrum Analyzer | Agilent         | E4440A | AFA | 6/15/2012 | 24       |
| Power Meter       | Hewlett Packard | E4418A | SPA | 4/11/2012 | 24       |
| Power Sensor      | Agilent         | E4412A | SQE | 4/11/2012 | 24       |
| Signal Generator  | Agilent         | E8257D | TGU | 2/1/2012  | 36       |

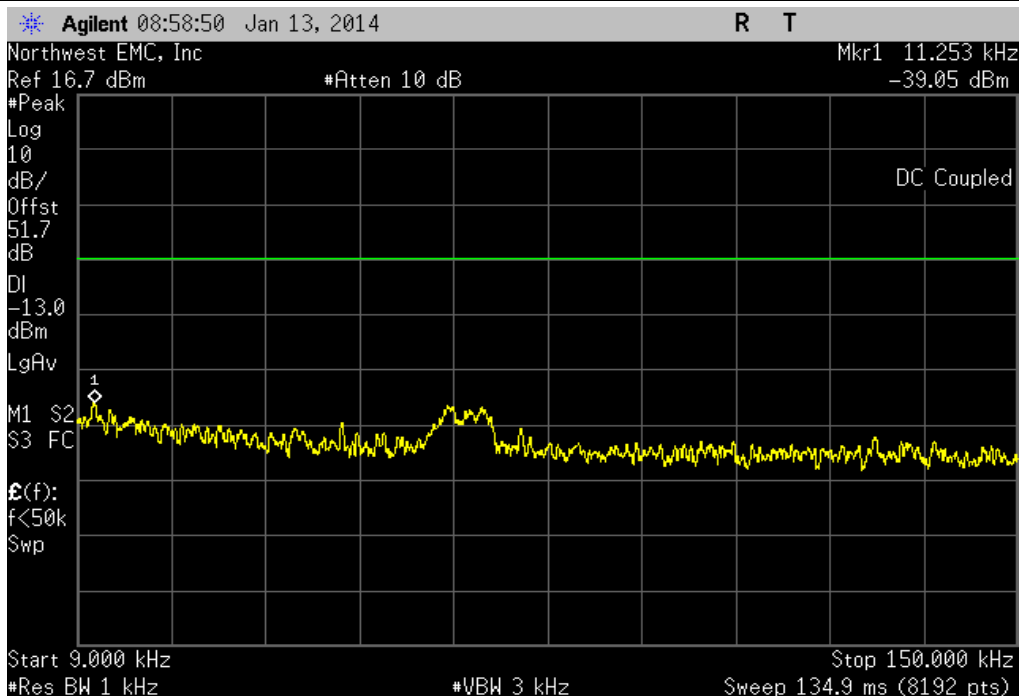
### TEST DESCRIPTION

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.

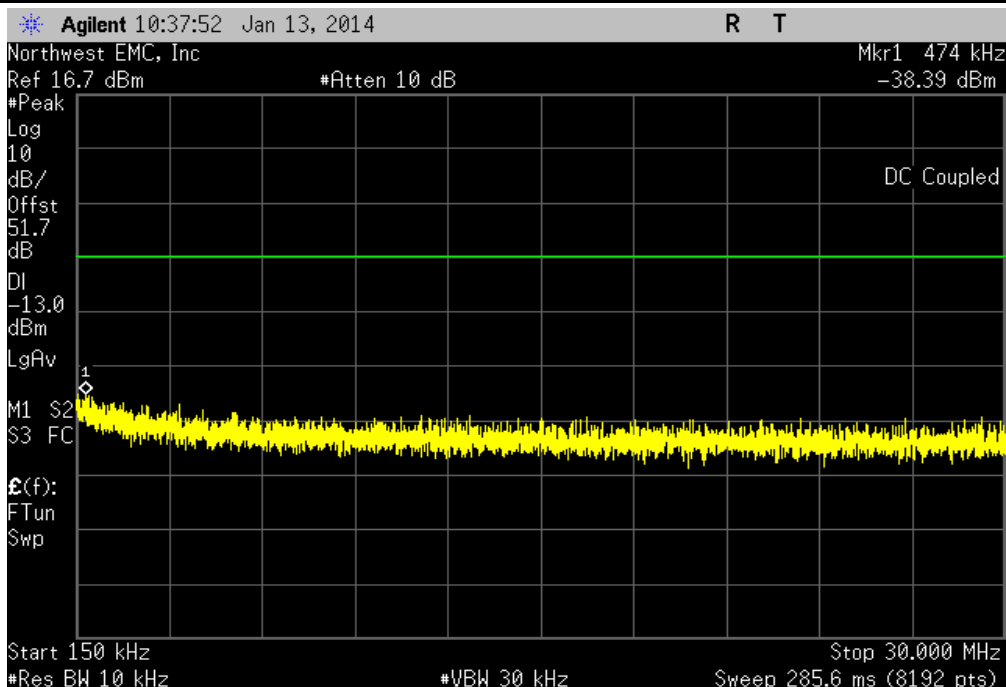
|                               |   |                                                                                             |
|-------------------------------|---|---------------------------------------------------------------------------------------------|
| EUT: AWS RRH                  |   | Work Order: KMWC0048                                                                        |
| Serial Number: U365000113     |   | Date: 01/13/14                                                                              |
| Customer: KMW Communications  |   | Temperature: 23.4°C                                                                         |
| Attendees: Edward Lee         |   | Humidity: 42%                                                                               |
| Project: None                 |   | Barometric Pres.: 1012                                                                      |
| Tested by: Jaemi Suh          |   | Job Site: OC10                                                                              |
| Power: 48VDC                  |   |                                                                                             |
| TEST SPECIFICATIONS           |   |                                                                                             |
| FCC 27L:2014                  |   | Test Method                                                                                 |
|                               |   | ANSI/TIA/EIA-603-C-2004                                                                     |
| COMMENTS                      |   |                                                                                             |
| Power Level Settings: 60W.    |   |                                                                                             |
| DEVIATIONS FROM TEST STANDARD |   |                                                                                             |
| None                          |   |                                                                                             |
| Configuration #               | 1 | Signature  |
|                               |   | Value Limit Result                                                                          |
| Port A                        |   |                                                                                             |
| LTE 5M                        |   |                                                                                             |
| Low Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.05 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.39 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -31.93 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.70 dBm -13 dBm Pass                                                                     |
| Mid Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -38.87 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.39 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -29.61 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.02 dBm -13 dBm Pass                                                                     |
| High Channel                  |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -38.92 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -37.89 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -27.68 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.40 dBm -13 dBm Pass                                                                     |
| Multi Channel                 |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.06 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -39.04 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -30.35 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -16.95 dBm -13 dBm Pass                                                                     |
| LTE 10M                       |   |                                                                                             |
| Low Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.88 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.61 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -30.46 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.07 dBm -13 dBm Pass                                                                     |
| Mid Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.52 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -37.68 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -30.87 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.40 dBm -13 dBm Pass                                                                     |
| High Channel                  |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.69 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.34 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -30.14 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.75 dBm -13 dBm Pass                                                                     |
| Multi Channel                 |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.37 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.24 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -31.29 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -18.28 dBm -13 dBm Pass                                                                     |
| LTE 15M                       |   |                                                                                             |
| Low Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.38 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -39.08 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -31.01 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -16.62 dBm -13 dBm Pass                                                                     |
| Mid Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.85 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.07 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -31.02 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -18.36 dBm -13 dBm Pass                                                                     |
| High Channel                  |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.01 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.97 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -31.04 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -16.58 dBm -13 dBm Pass                                                                     |
| Multi Channel                 |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -40.49 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -37.18 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -30.97 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.79 dBm -13 dBm Pass                                                                     |
| LTE 20M                       |   |                                                                                             |
| Low Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -38.71 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -37.12 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -30.96 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -16.49 dBm -13 dBm Pass                                                                     |
| Mid Channel                   |   |                                                                                             |
| 9 kHz - 150 kHz               |   | -39.32 dBm -13 dBm Pass                                                                     |
| 150 kHz - 30 MHz              |   | -38.09 dBm -13 dBm Pass                                                                     |
| 30 MHz - 1 GHz                |   | -31.17 dBm -13 dBm Pass                                                                     |
| 1 GHz - 12.75 GHz             |   | -17.22 dBm -13 dBm Pass                                                                     |

|                   |  |            |         |      |  |
|-------------------|--|------------|---------|------|--|
|                   |  |            |         |      |  |
| High Channel      |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.52 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.24 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -31.13 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.52 dBm | -13 dBm | Pass |  |
| Multi Channel     |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.47 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -35.67 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.85 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.71 dBm | -13 dBm | Pass |  |
| Port B            |  |            |         |      |  |
| LTE 5M            |  |            |         |      |  |
| Low Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.71 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.29 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.26 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.98 dBm | -13 dBm | Pass |  |
| Mid Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.11 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.94 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -29.71 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.61 dBm | -13 dBm | Pass |  |
| High Channel      |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.92 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.39 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.02 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.65 dBm | -13 dBm | Pass |  |
| Multi Channel     |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.04 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.44 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -31.21 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.82 dBm | -13 dBm | Pass |  |
| LTE 10M           |  |            |         |      |  |
| Low Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.39 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.40 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.92 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.85 dBm | -13 dBm | Pass |  |
| Mid Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.35 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -37.05 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.33 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.07 dBm | -13 dBm | Pass |  |
| High Channel      |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -37.97 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.15 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.56 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.99 dBm | -13 dBm | Pass |  |
| Multi Channel     |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.23 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.69 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.56 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.84 dBm | -13 dBm | Pass |  |
| LTE 15M           |  |            |         |      |  |
| Low Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.68 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -37.19 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -31.44 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -18.07 dBm | -13 dBm | Pass |  |
| Mid Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.42 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -37.01 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.63 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.67 dBm | -13 dBm | Pass |  |
| High Channel      |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.02 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -36.79 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.13 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.17 dBm | -13 dBm | Pass |  |
| Multi Channel     |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.88 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -37.93 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -29.13 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.98 dBm | -13 dBm | Pass |  |
| LTE 20M           |  |            |         |      |  |
| Low Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.42 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -37.40 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.40 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -18.16 dBm | -13 dBm | Pass |  |
| Mid Channel       |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -39.80 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.10 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -31.13 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -16.52 dBm | -13 dBm | Pass |  |
| High Channel      |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.28 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -37.70 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -31.00 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.70 dBm | -13 dBm | Pass |  |
| Multi Channel     |  |            |         |      |  |
| 9 kHz - 150 kHz   |  | -38.14 dBm | -13 dBm | Pass |  |
| 150 kHz - 30 MHz  |  | -38.57 dBm | -13 dBm | Pass |  |
| 30 MHz - 1 GHz    |  | -30.94 dBm | -13 dBm | Pass |  |
| 1 GHz - 12.75 GHz |  | -17.17 dBm | -13 dBm | Pass |  |

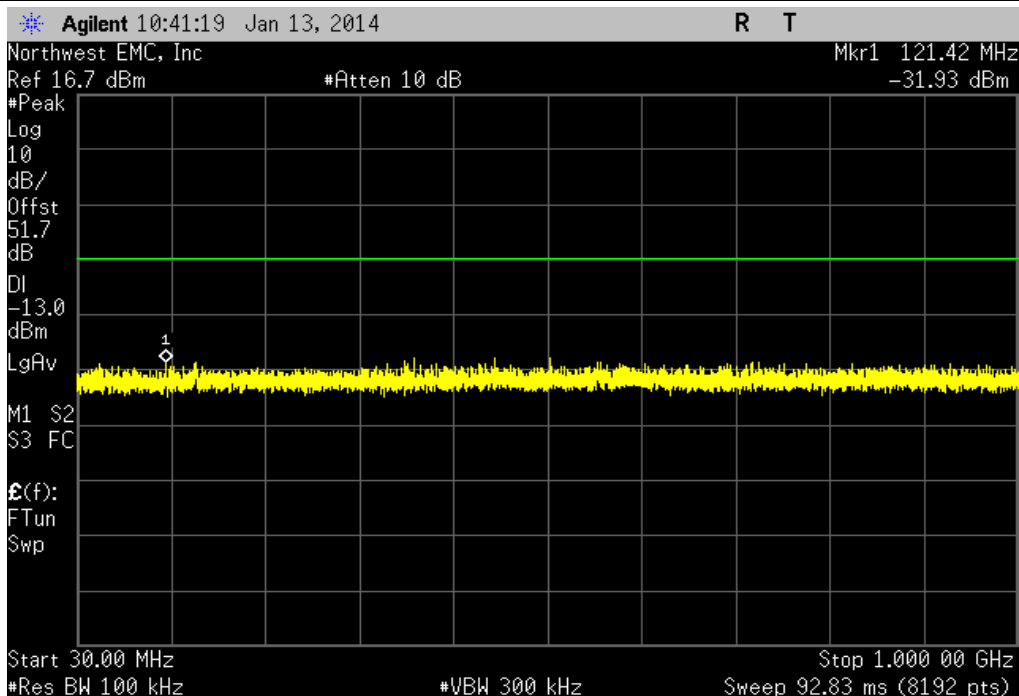
| Port A, LTE 5M, Low Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -39.05 dBm | -13 dBm | Pass   |  |



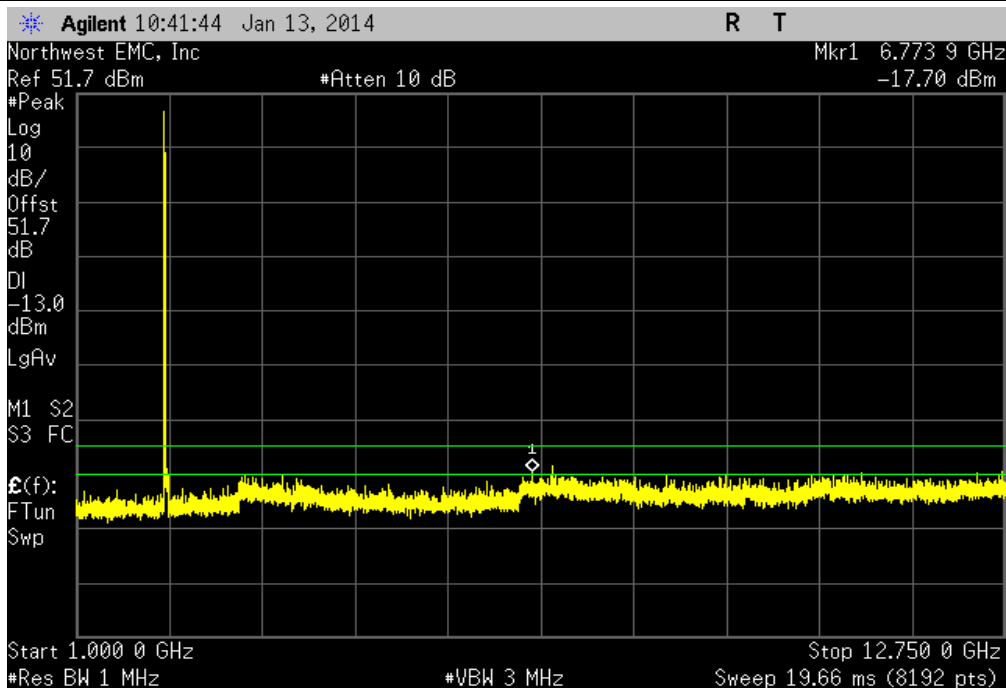
| Port A, LTE 5M, Low Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -38.39 dBm | -13 dBm | Pass   |  |



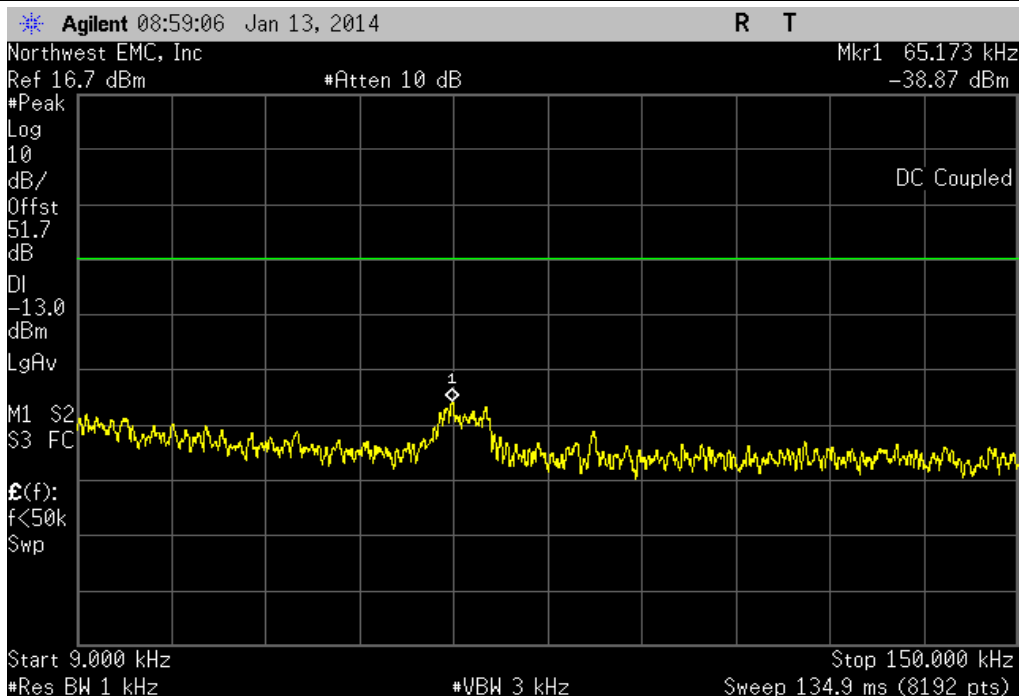
| Port A, LTE 5M, Low Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|---------------------------------------------|--|--|--|------------|---------|--------|--|
|                                             |  |  |  | Value      | Limit   | Result |  |
|                                             |  |  |  | -31.93 dBm | -13 dBm | Pass   |  |



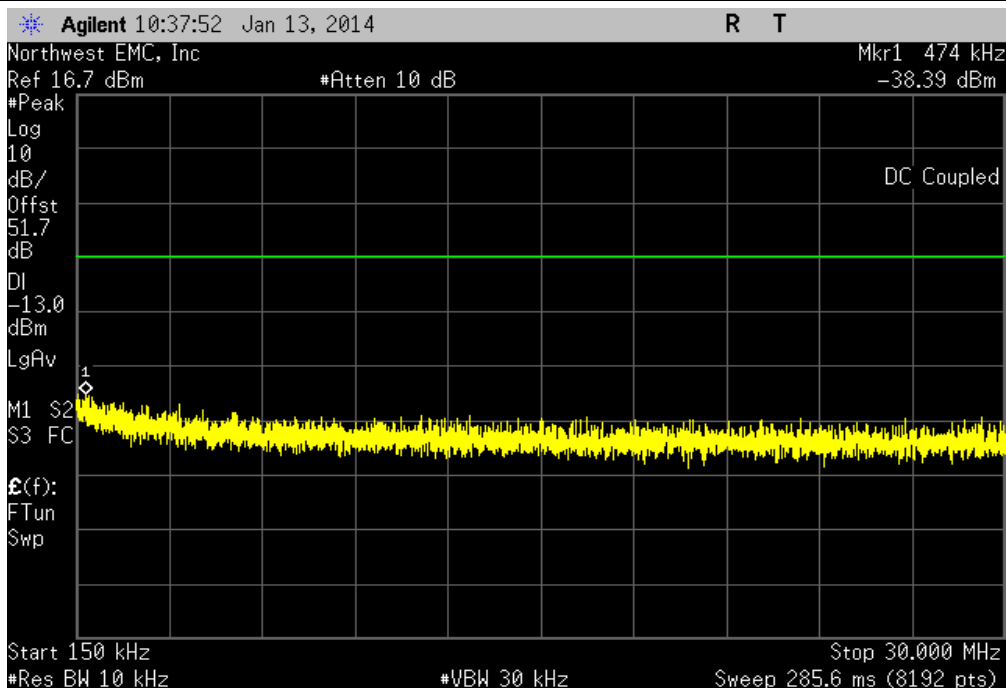
| Port A, LTE 5M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -17.70 dBm | -13 dBm | Pass   |  |



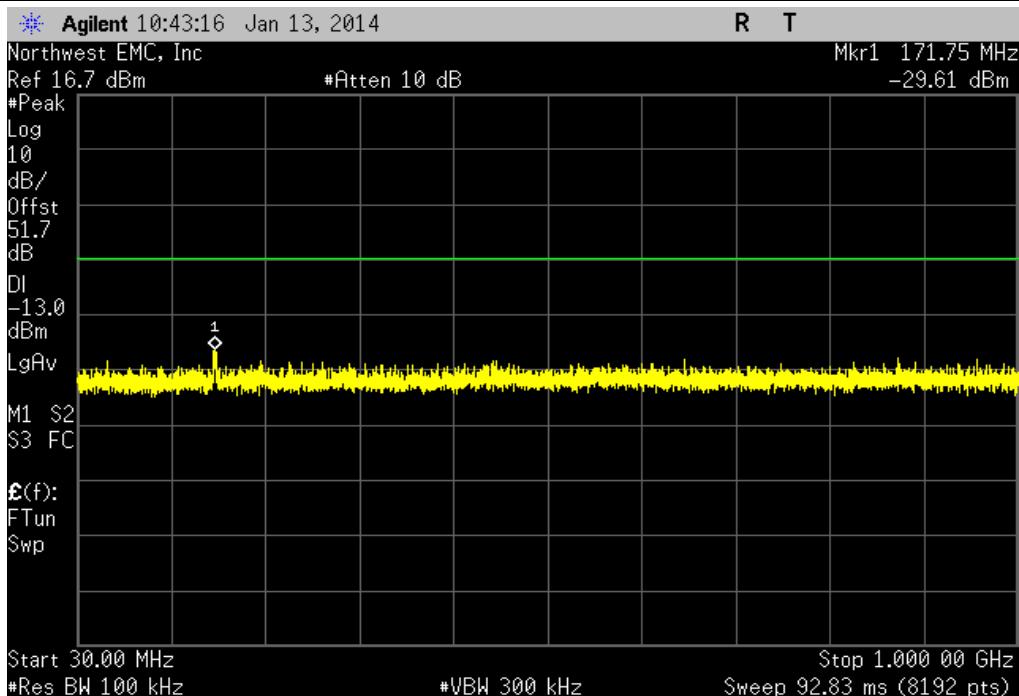
| Port A, LTE 5M, Mid Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                              |  |  |  |  | Value      | Limit   | Result |
|                                              |  |  |  |  | -38.87 dBm | -13 dBm | Pass   |



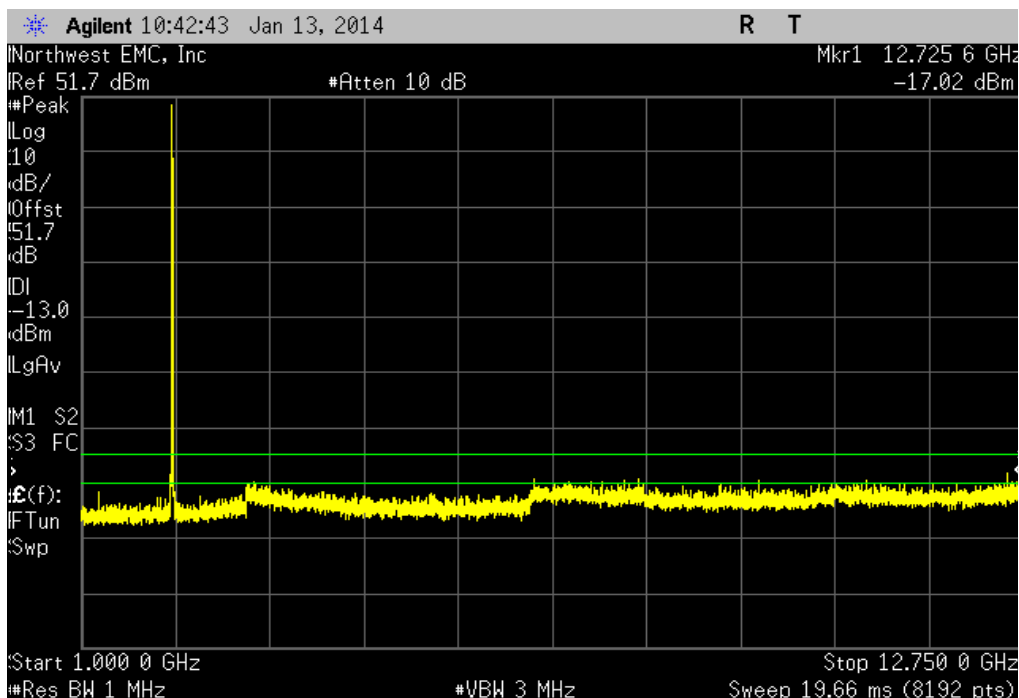
| Port A, LTE 5M, Mid Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -38.39 dBm | -13 dBm | Pass   |



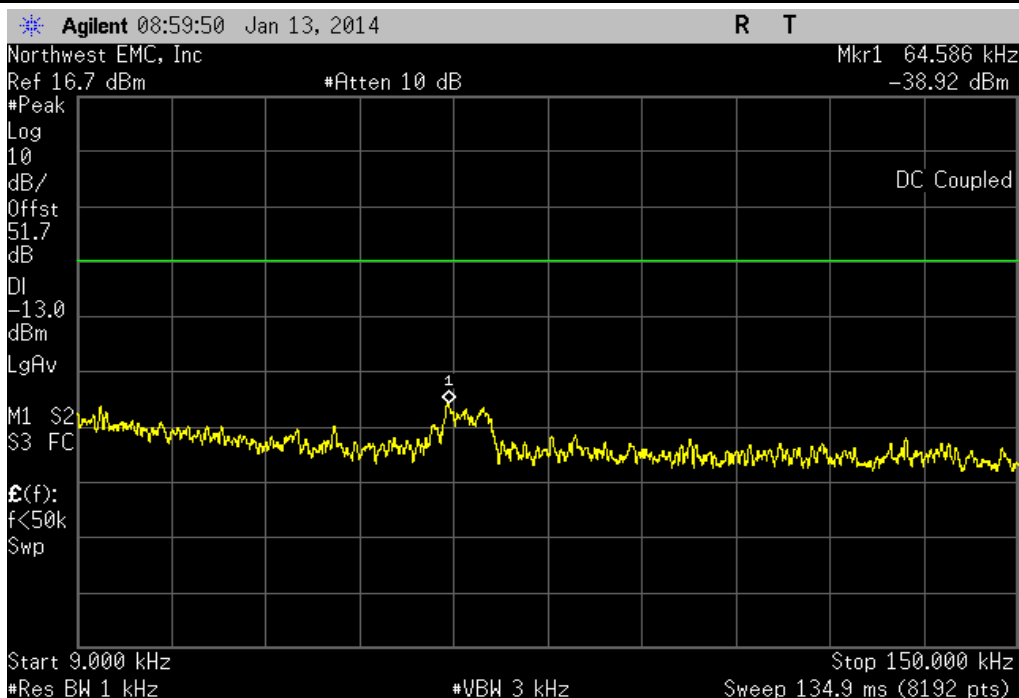
| Port A, LTE 5M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|---------------------------------------------|--|--|--|------------|---------|--------|--|
|                                             |  |  |  | Value      | Limit   | Result |  |
|                                             |  |  |  | -29.61 dBm | -13 dBm | Pass   |  |



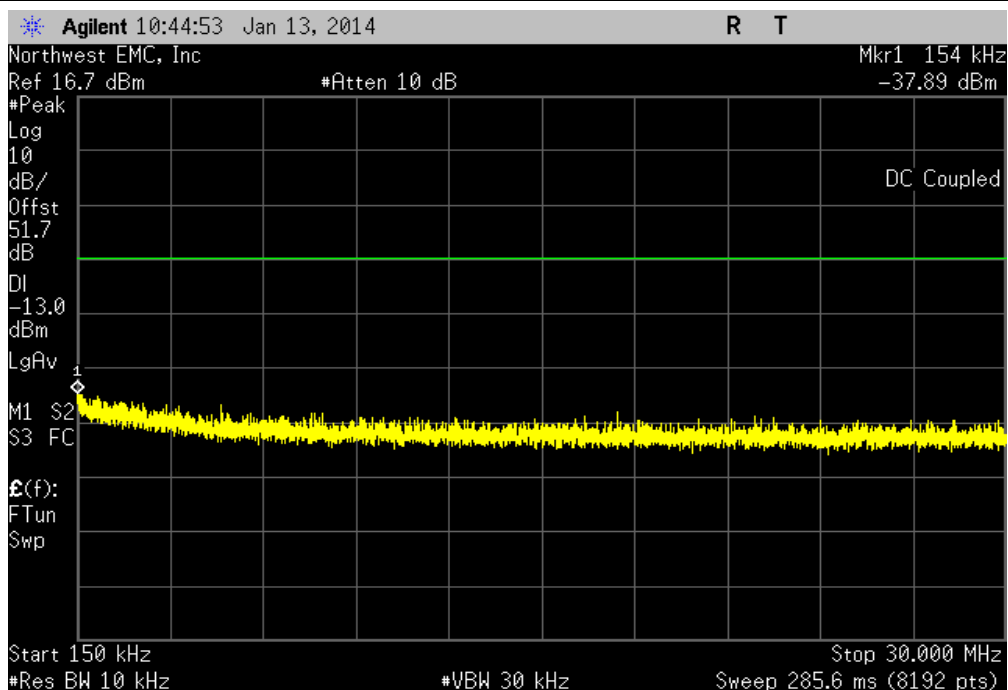
| Port A, LTE 5M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -17.02 dBm | -13 dBm | Pass   |  |



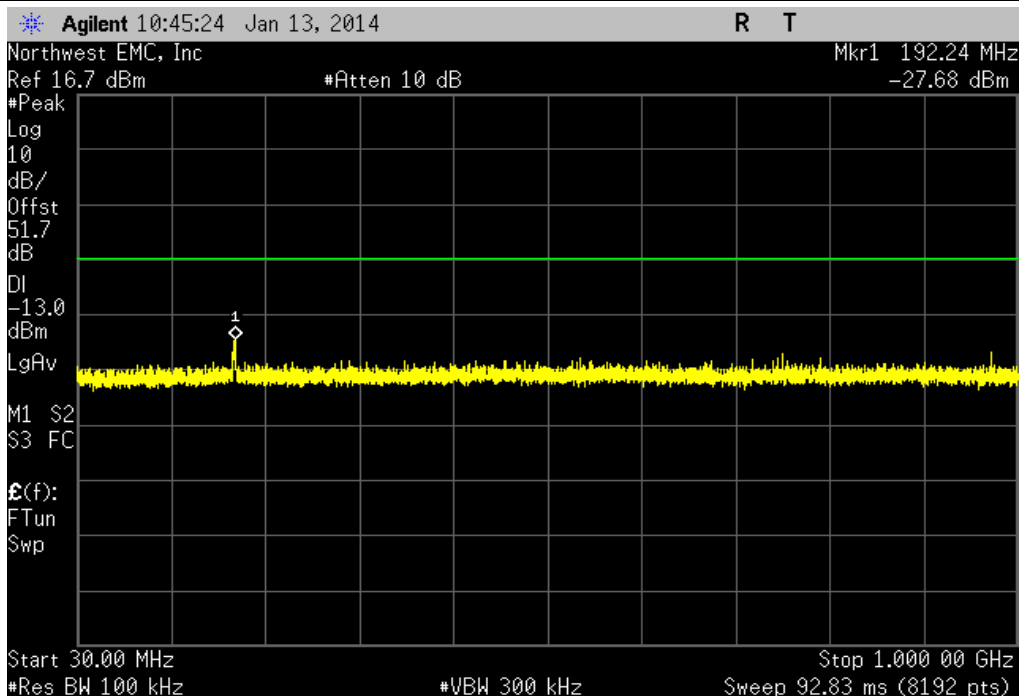
| Port A, LTE 5M, High Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -38.92 dBm | -13 dBm | Pass   |



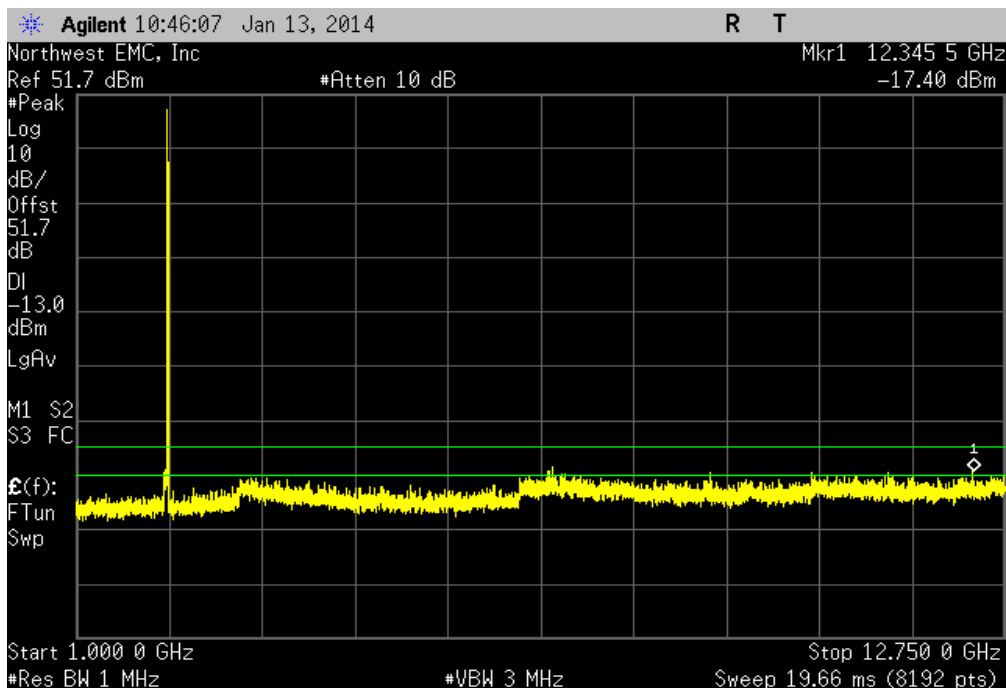
| Port A, LTE 5M, High Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -37.89 dBm | -13 dBm | Pass   |



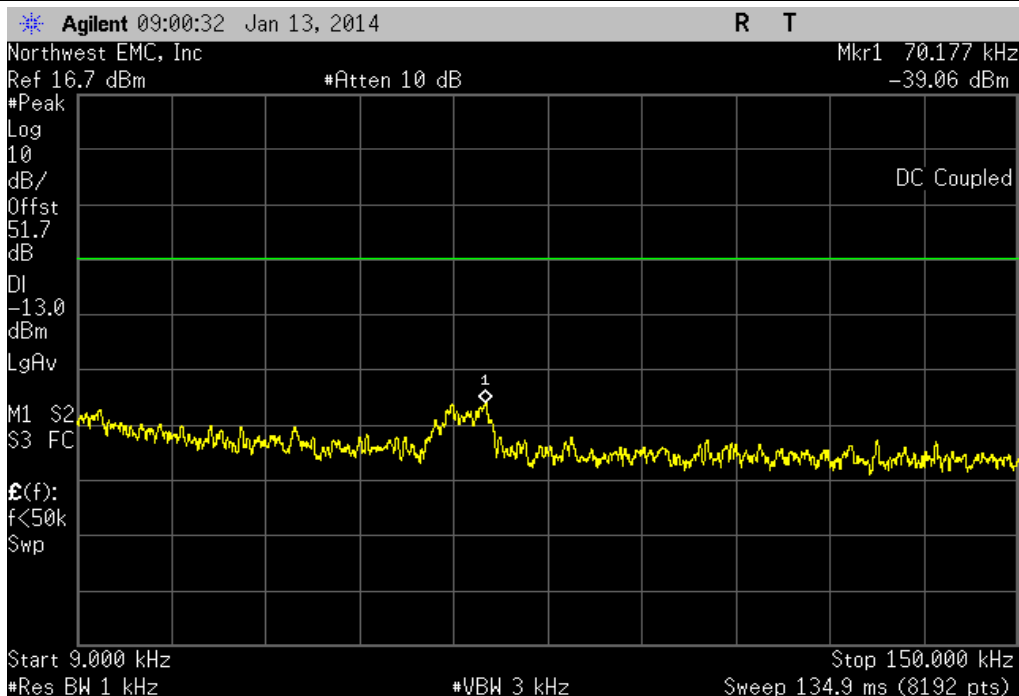
| Port A, LTE 5M, High Channel, 30 MHz - 1 GHz |  |  |  |  |            |         |        |
|----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                              |  |  |  |  | Value      | Limit   | Result |
|                                              |  |  |  |  | -27.68 dBm | -13 dBm | Pass   |



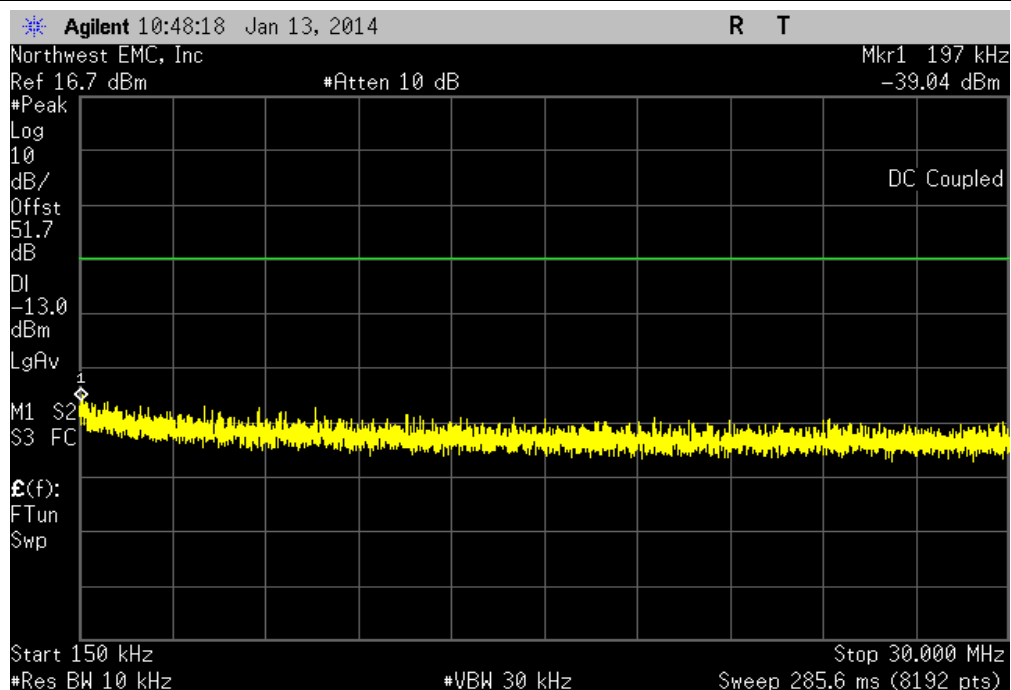
| Port A, LTE 5M, High Channel, 1 GHz - 12.75 GHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -17.40 dBm | -13 dBm | Pass   |



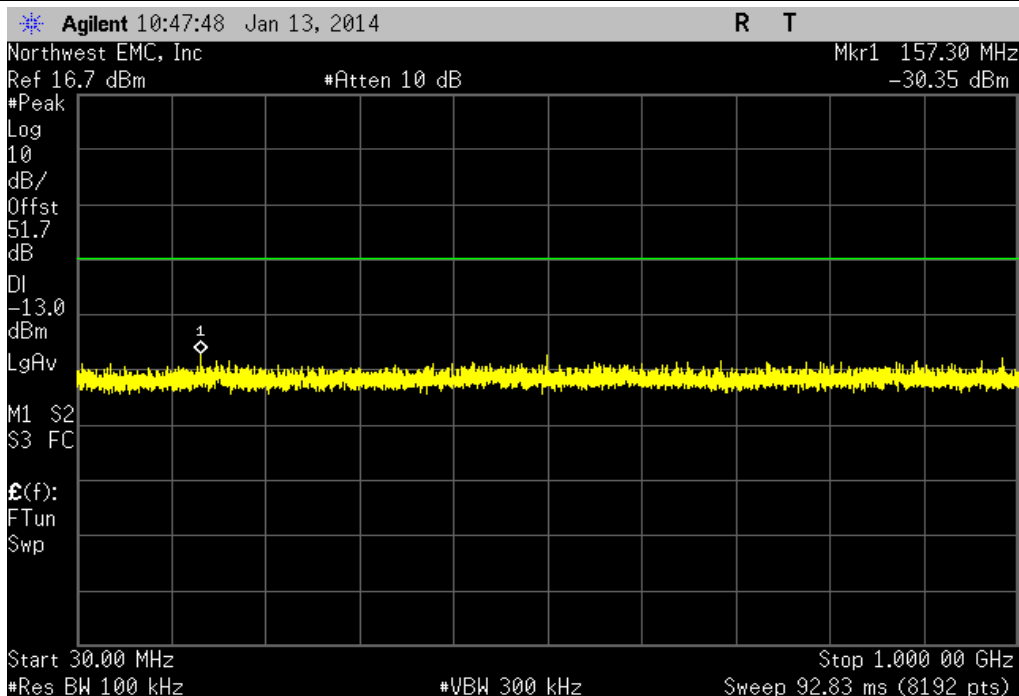
| Port A, LTE 5M, Multi Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -39.06 dBm | -13 dBm | Pass   |



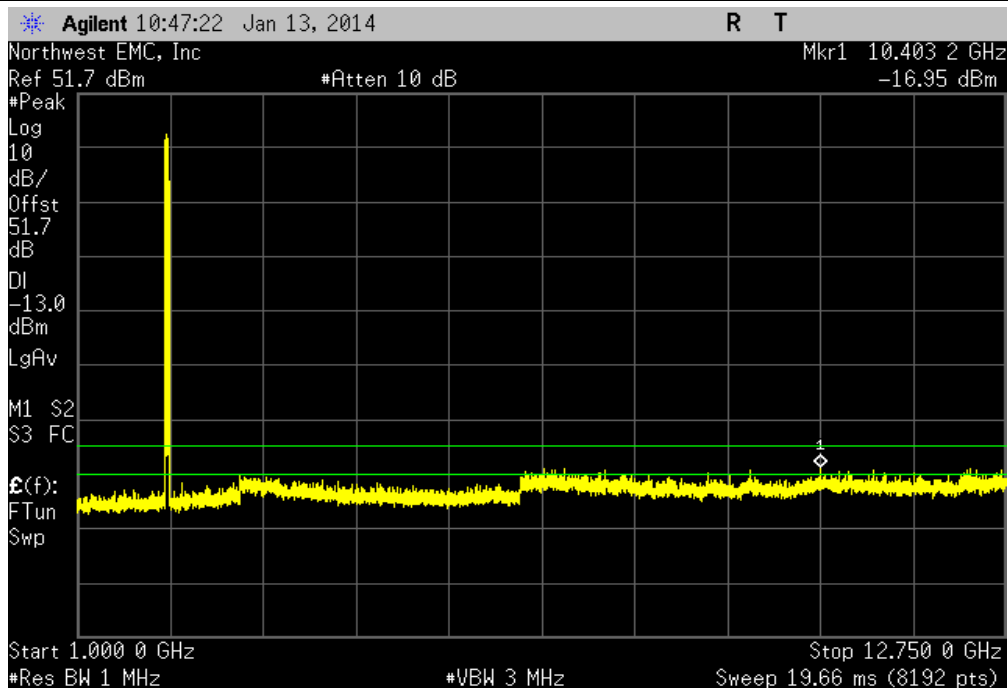
| Port A, LTE 5M, Multi Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -39.04 dBm | -13 dBm | Pass   |



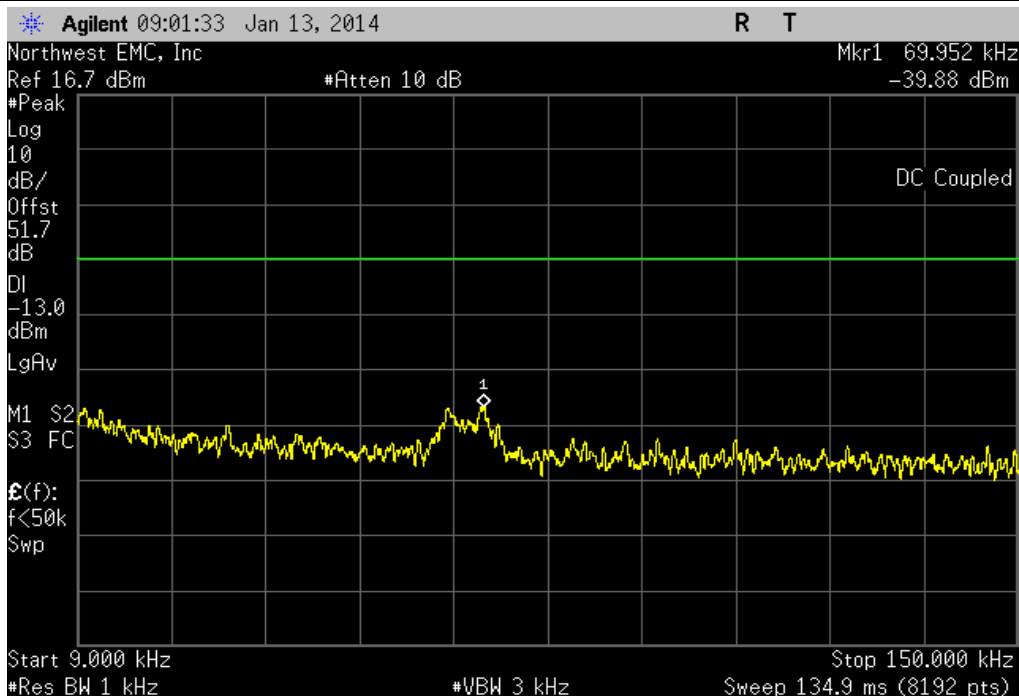
| Port A, LTE 5M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -30.35 dBm | -13 dBm | Pass   |  |



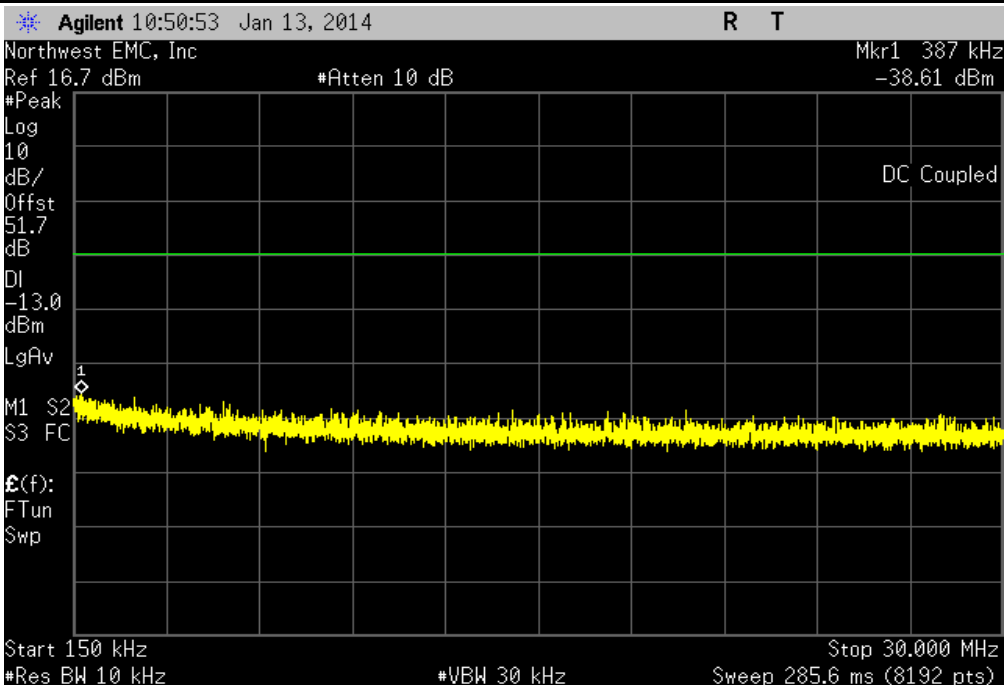
| Port A, LTE 5M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -16.95 dBm | -13 dBm | Pass   |  |



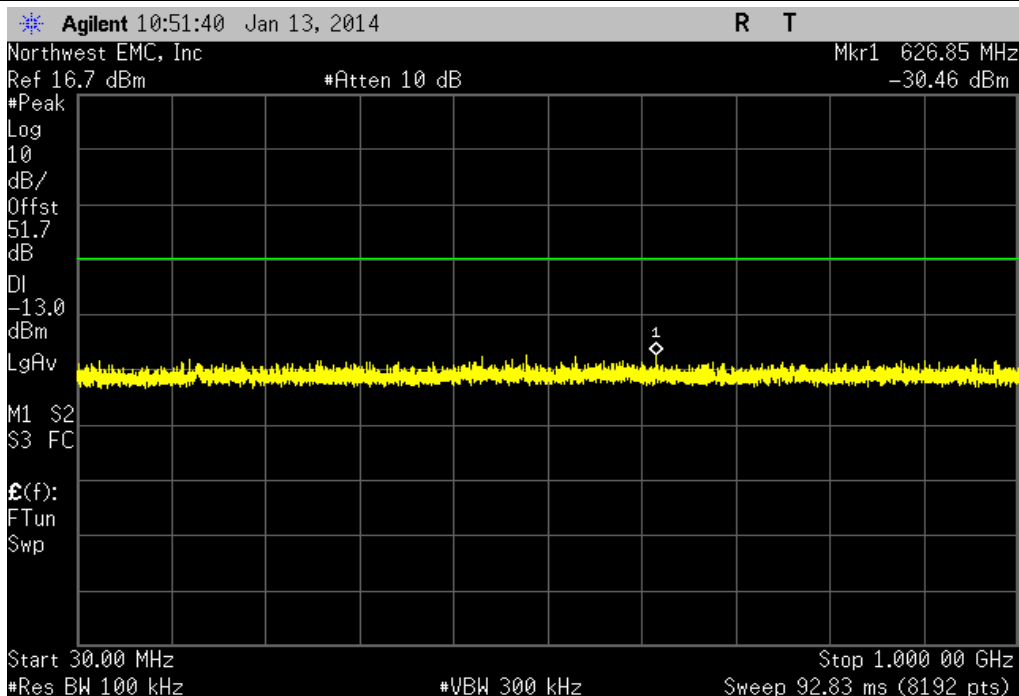
| Port A, LTE 10M, Low Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -39.88 dBm | -13 dBm | Pass   |  |



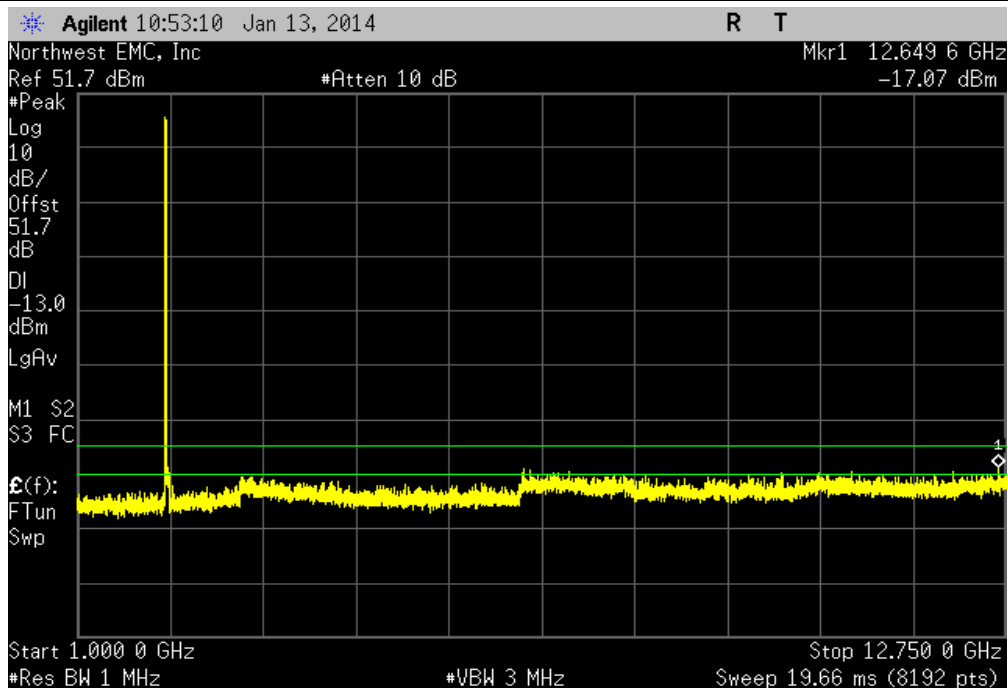
| Port A, LTE 10M, Low Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -38.61 dBm | -13 dBm | Pass   |  |



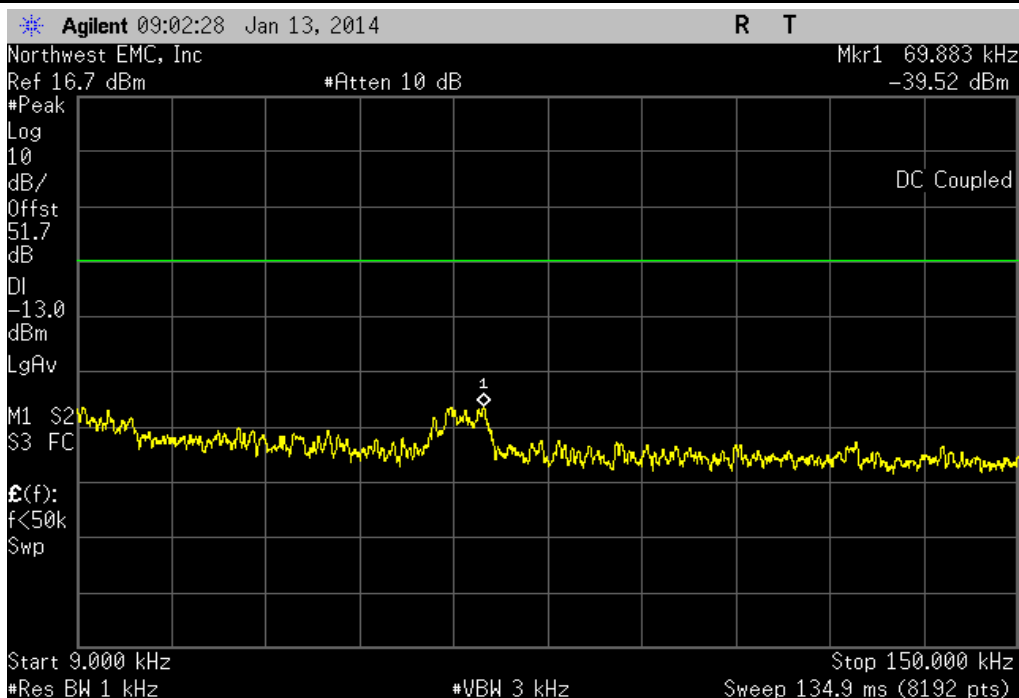
| Port A, LTE 10M, Low Channel, 30 MHz - 1 GHz |  |  |  |  |            |         |        |
|----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                              |  |  |  |  | Value      | Limit   | Result |
|                                              |  |  |  |  | -30.46 dBm | -13 dBm | Pass   |



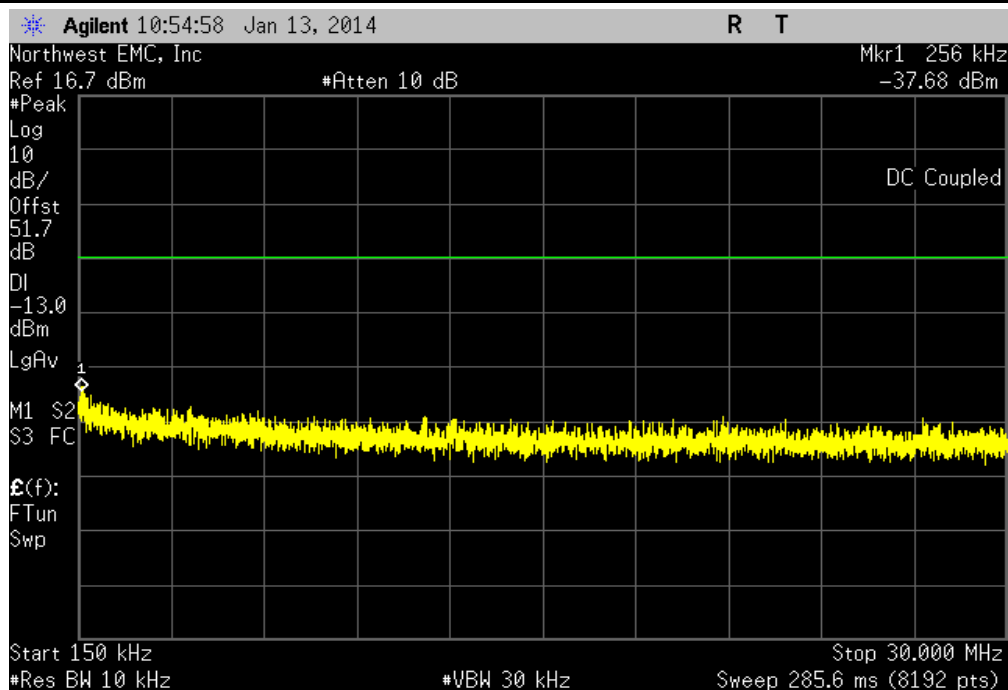
| Port A, LTE 10M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -17.07 dBm | -13 dBm | Pass   |



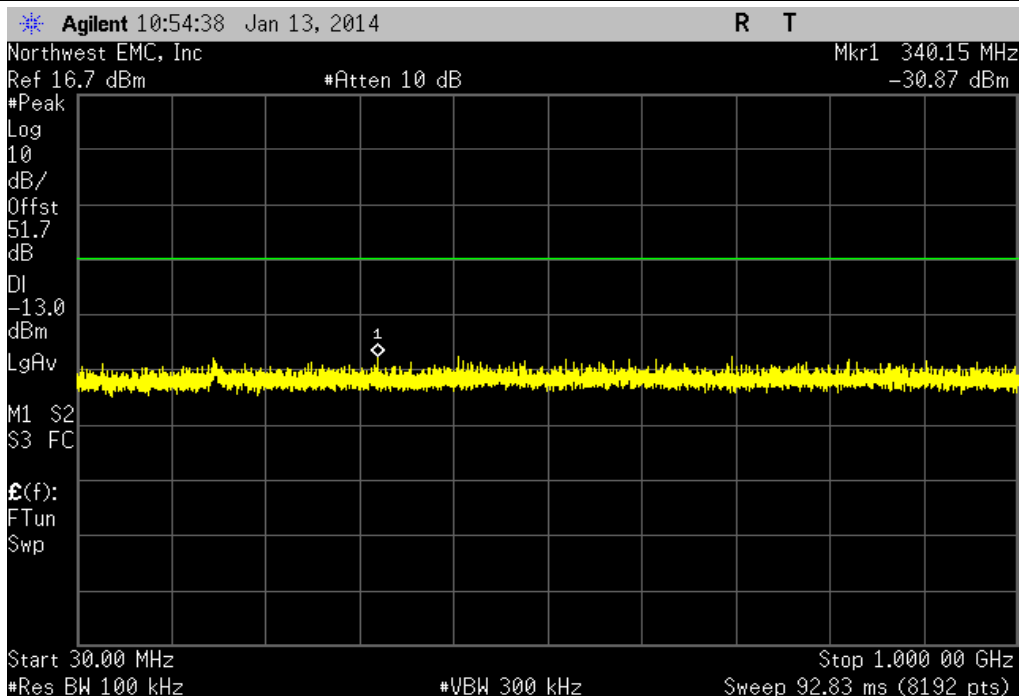
| Port A, LTE 10M, Mid Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -39.52 dBm | -13 dBm | Pass   |  |



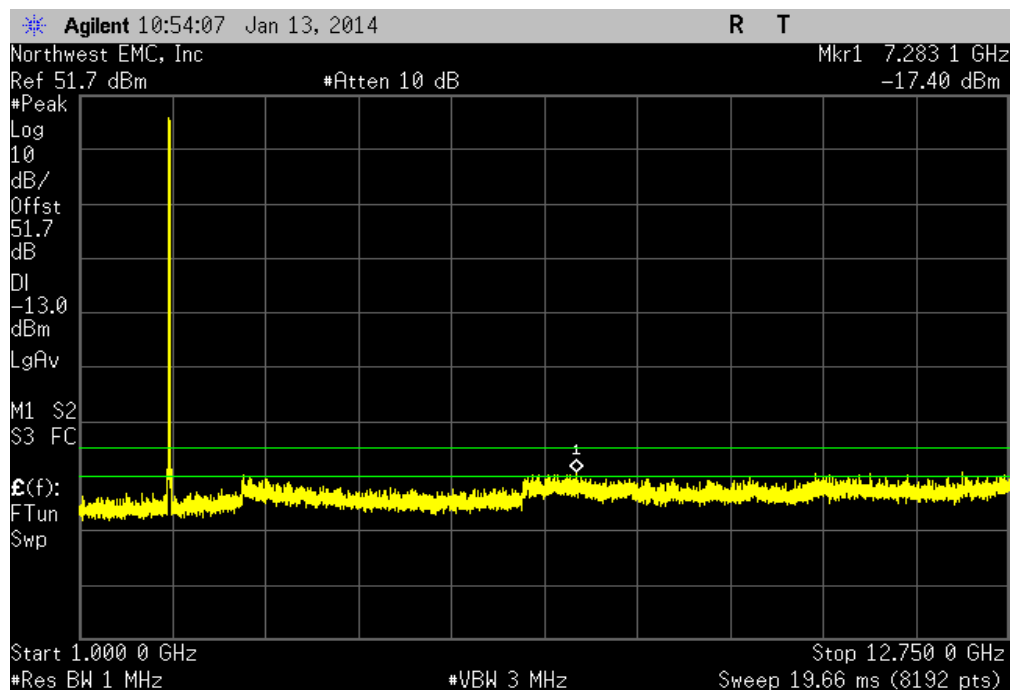
| Port A, LTE 10M, Mid Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -37.68 dBm | -13 dBm | Pass   |  |



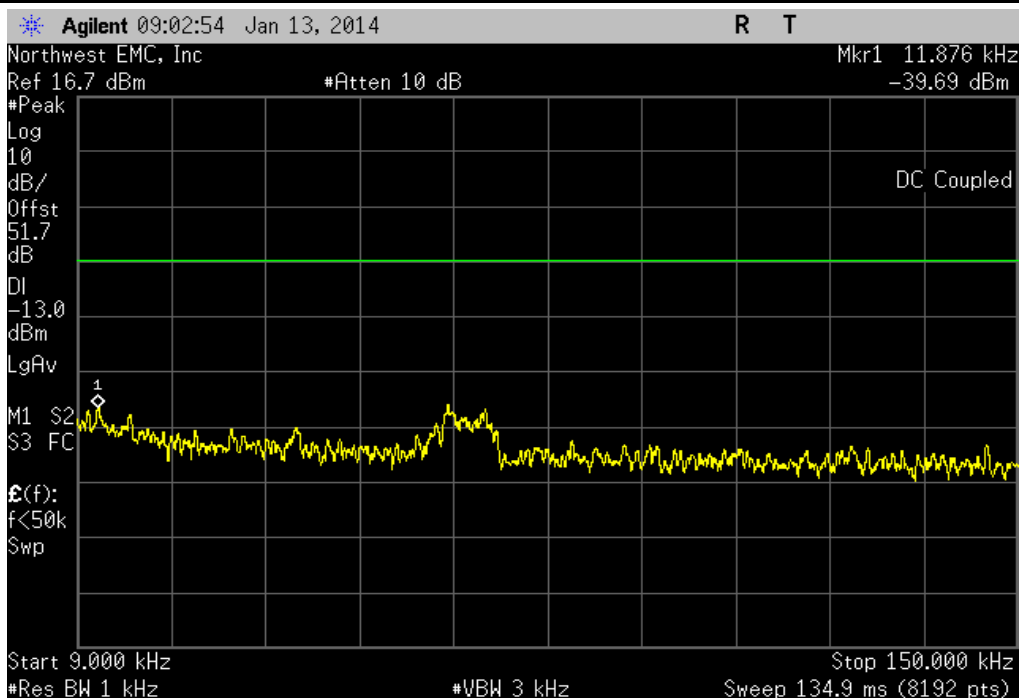
| Port A, LTE 10M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -30.87 dBm | -13 dBm | Pass   |  |



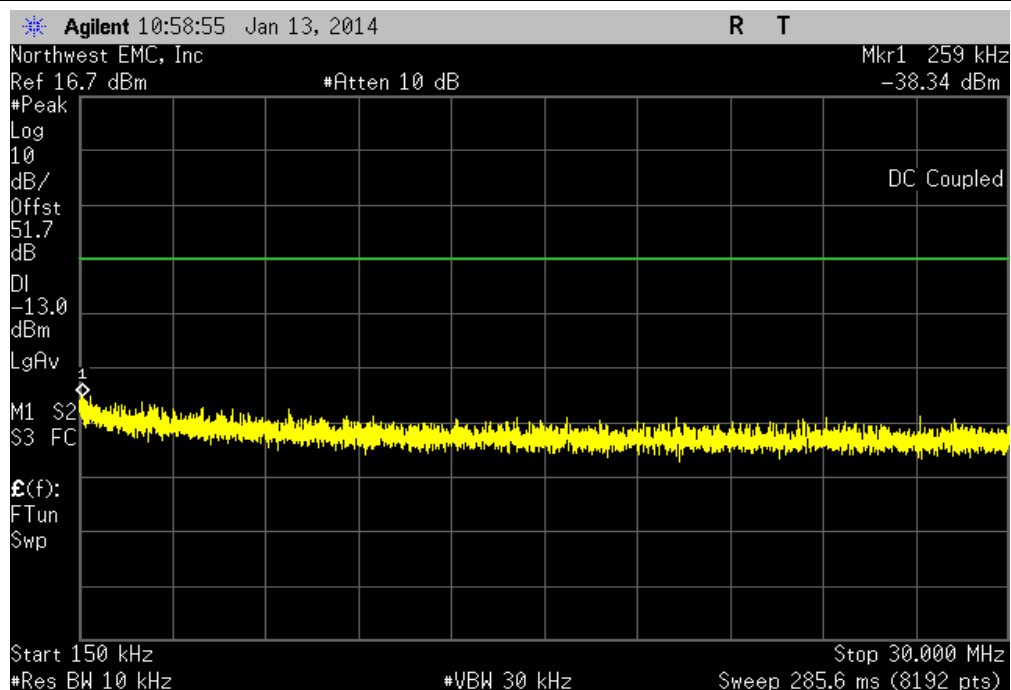
| Port A, LTE 10M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -17.40 dBm | -13 dBm | Pass   |  |



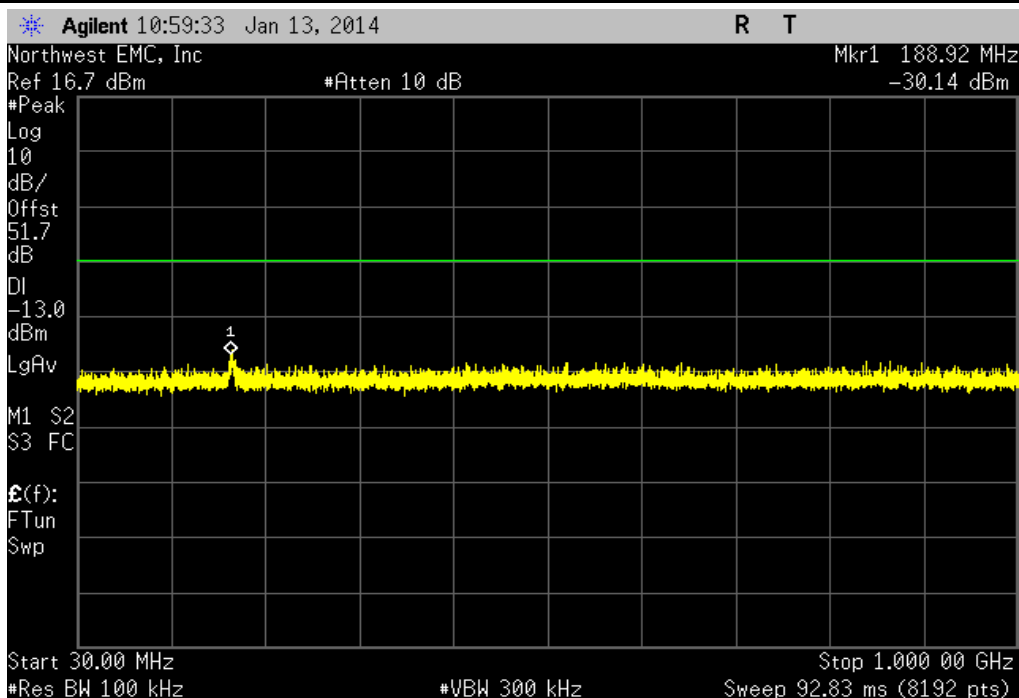
| Port A, LTE 10M, High Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -39.69 dBm | -13 dBm | Pass   |



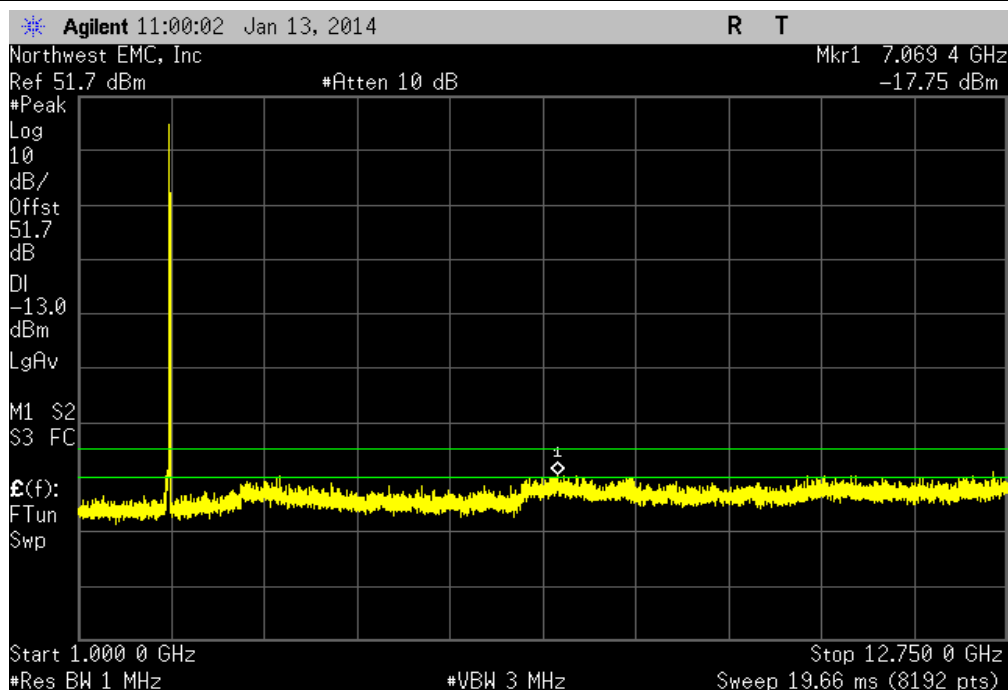
| Port A, LTE 10M, High Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -38.34 dBm | -13 dBm | Pass   |



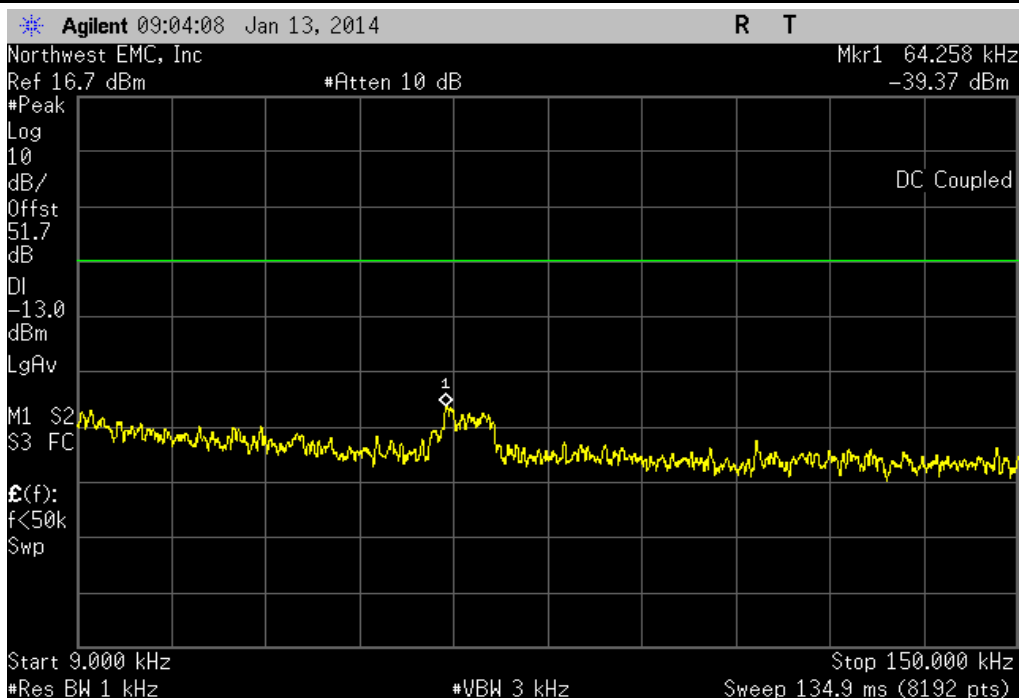
| Port A, LTE 10M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -30.14 dBm | -13 dBm | Pass   |  |



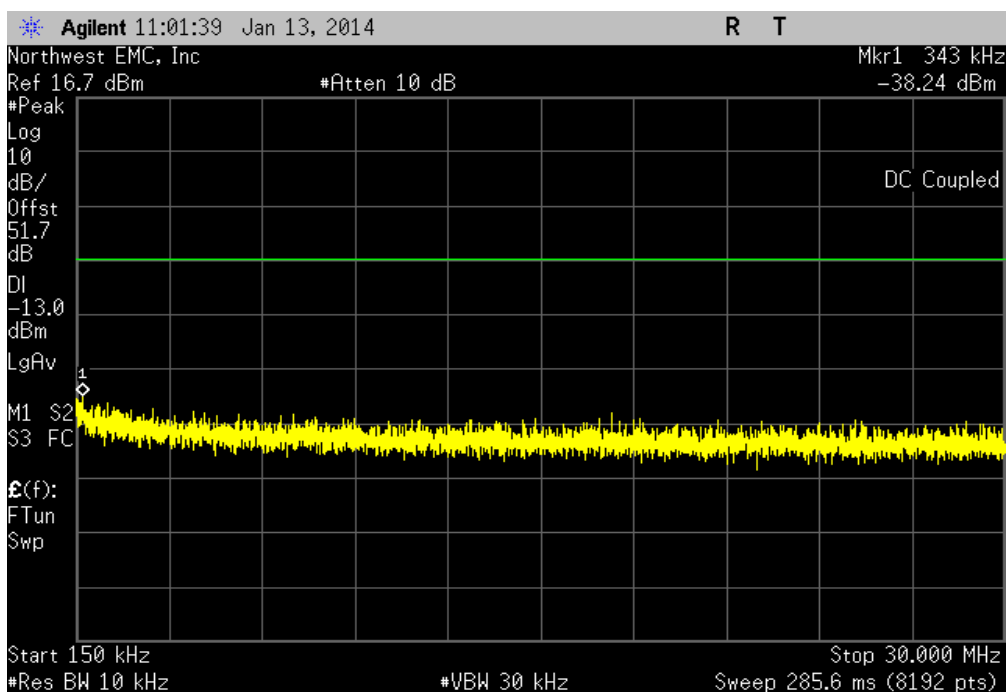
| Port A, LTE 10M, High Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -17.75 dBm | -13 dBm | Pass   |  |



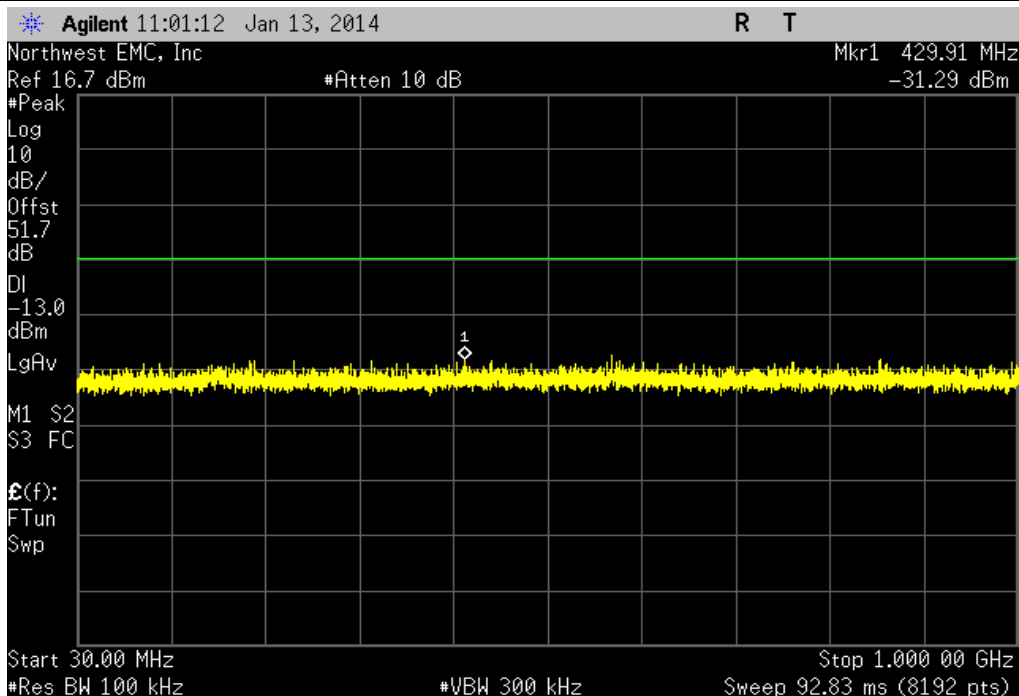
| Port A, LTE 10M, Multi Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -39.37 dBm | -13 dBm | Pass   |



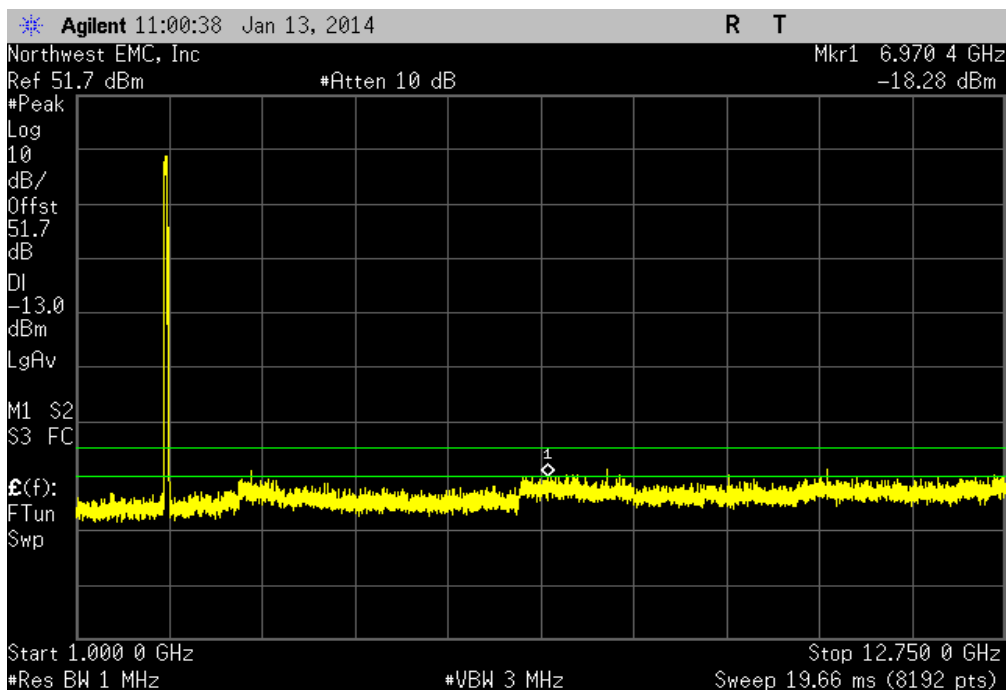
| Port A, LTE 10M, Multi Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|--------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                  |  |  |  |  | Value      | Limit   | Result |
|                                                  |  |  |  |  | -38.24 dBm | -13 dBm | Pass   |



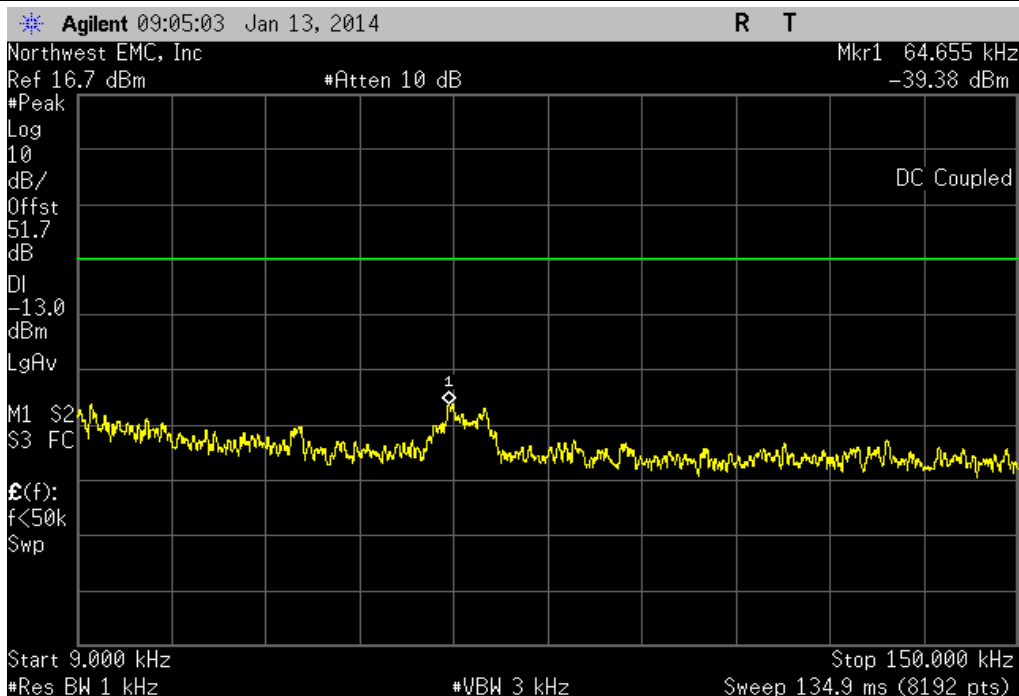
| Port A, LTE 10M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -31.29 dBm | -13 dBm | Pass   |  |



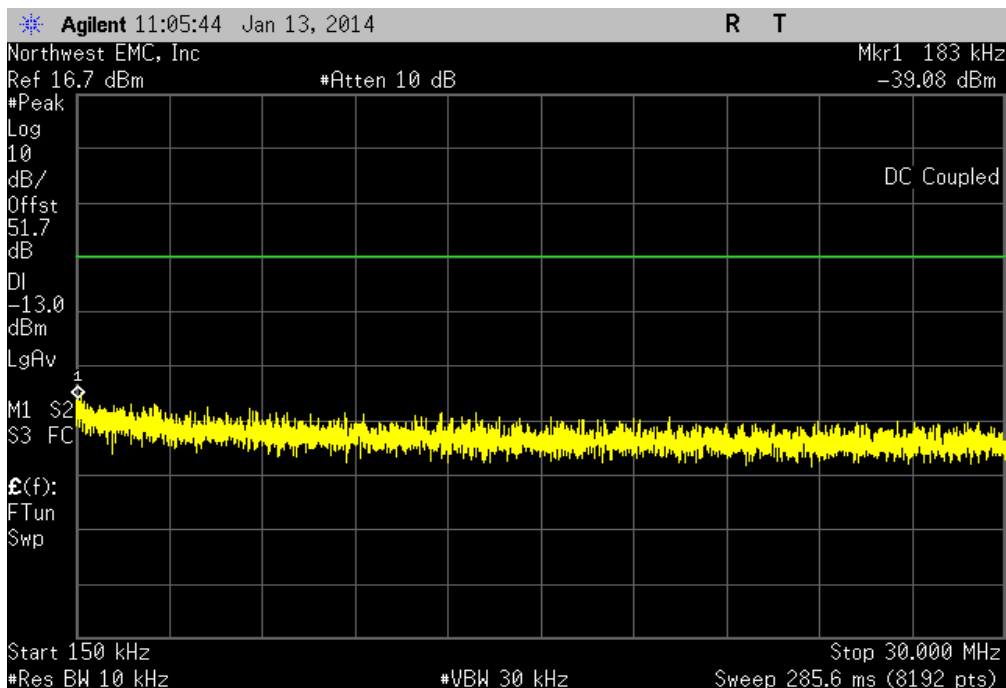
| Port A, LTE 10M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|---------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                   |  |  |  | Value      | Limit   | Result |  |
|                                                   |  |  |  | -18.28 dBm | -13 dBm | Pass   |  |



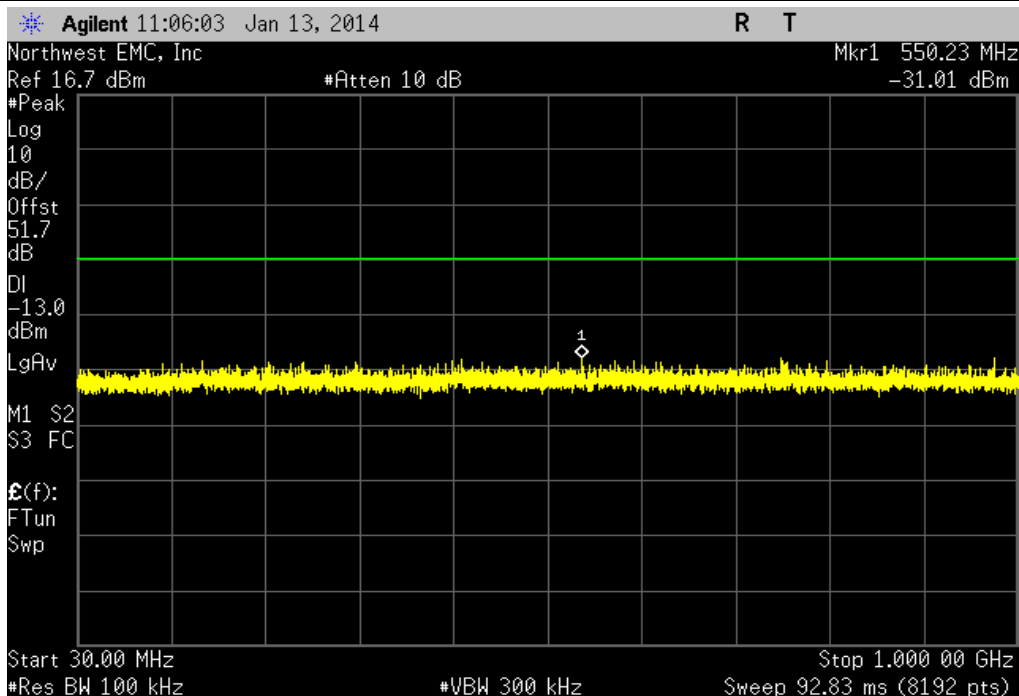
| Port A, LTE 15M, Low Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -39.38 dBm | -13 dBm | Pass   |  |



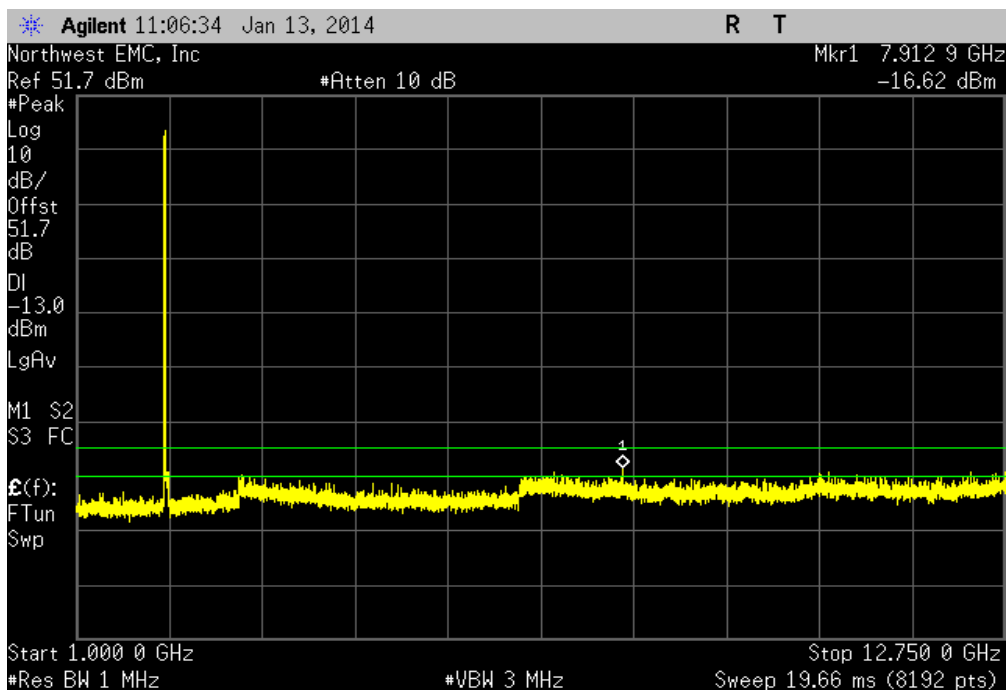
| Port A, LTE 15M, Low Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -39.08 dBm | -13 dBm | Pass   |  |



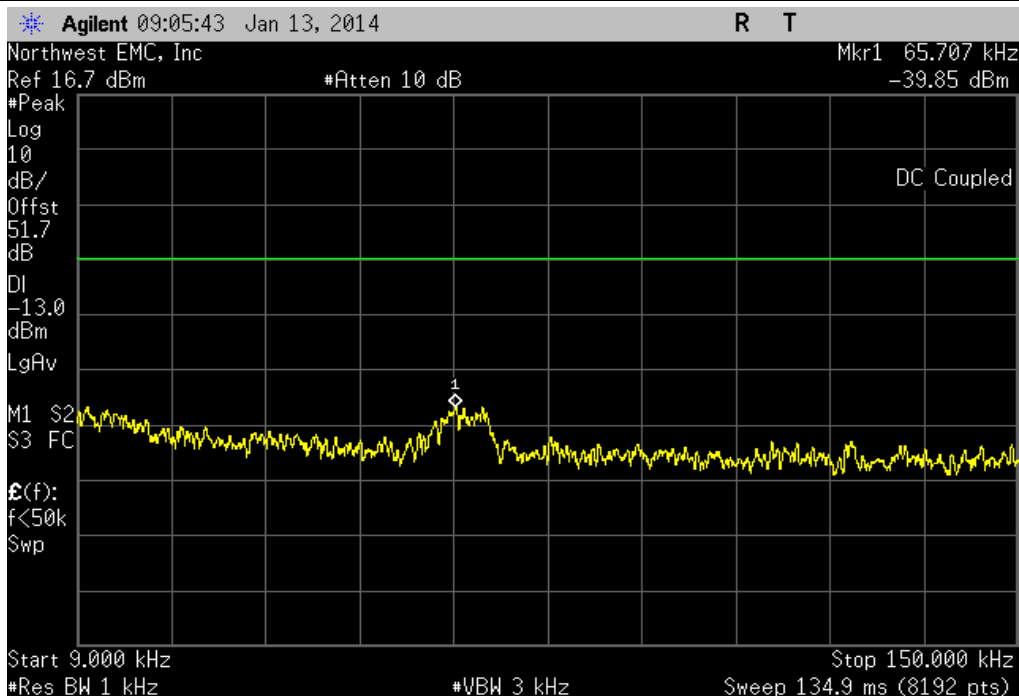
| Port A, LTE 15M, Low Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -31.01 dBm | -13 dBm | Pass   |  |



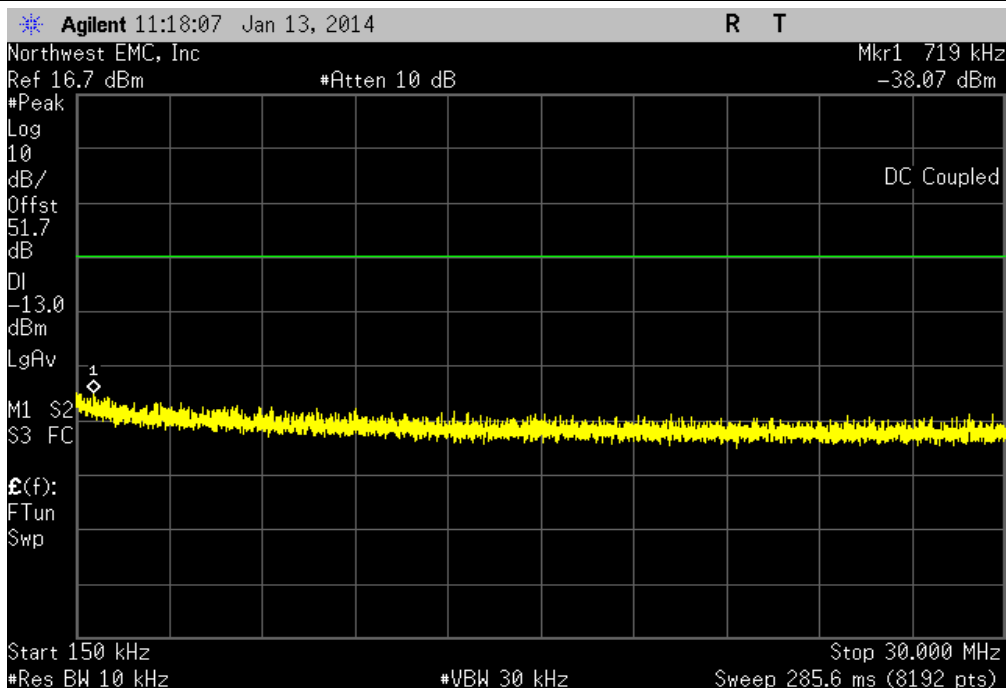
| Port A, LTE 15M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -16.62 dBm | -13 dBm | Pass   |  |



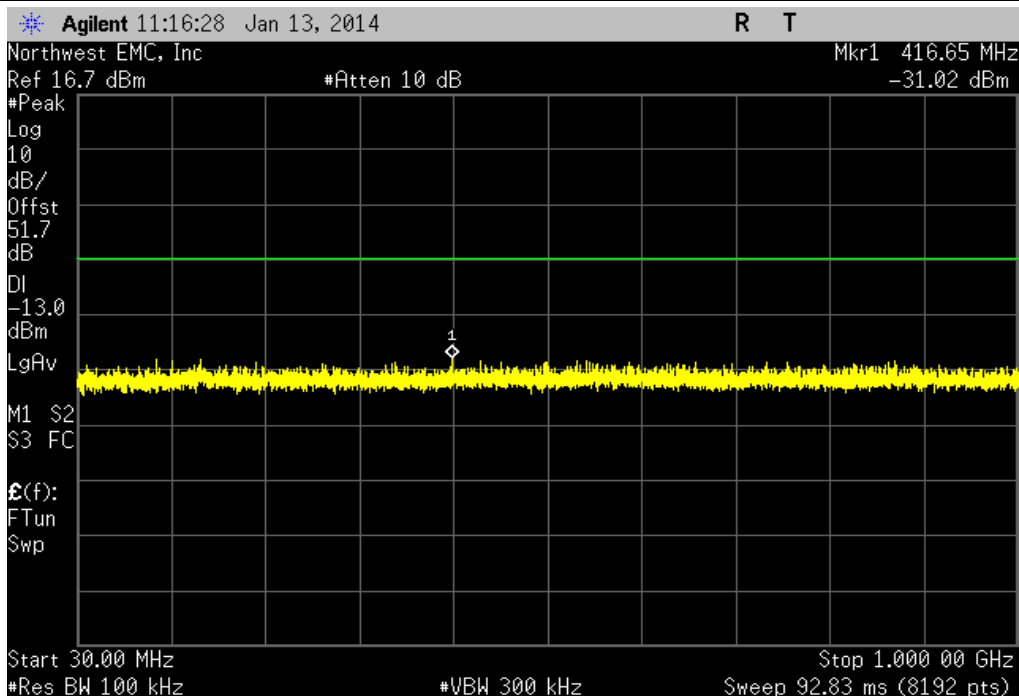
| Port A, LTE 15M, Mid Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -39.85 dBm | -13 dBm | Pass   |  |



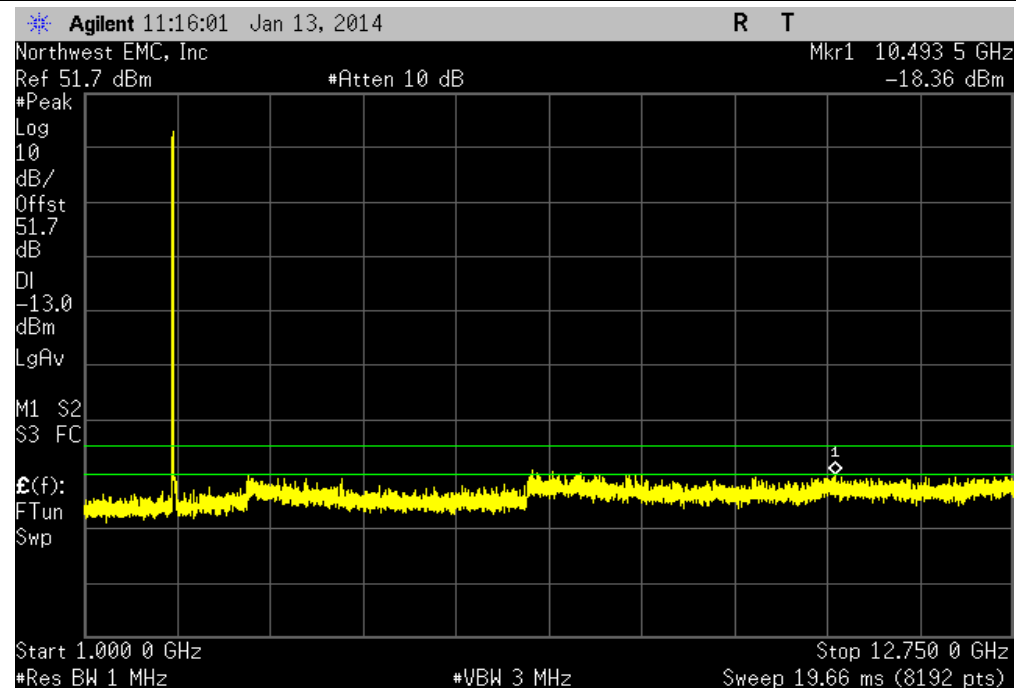
| Port A, LTE 15M, Mid Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -38.07 dBm | -13 dBm | Pass   |  |



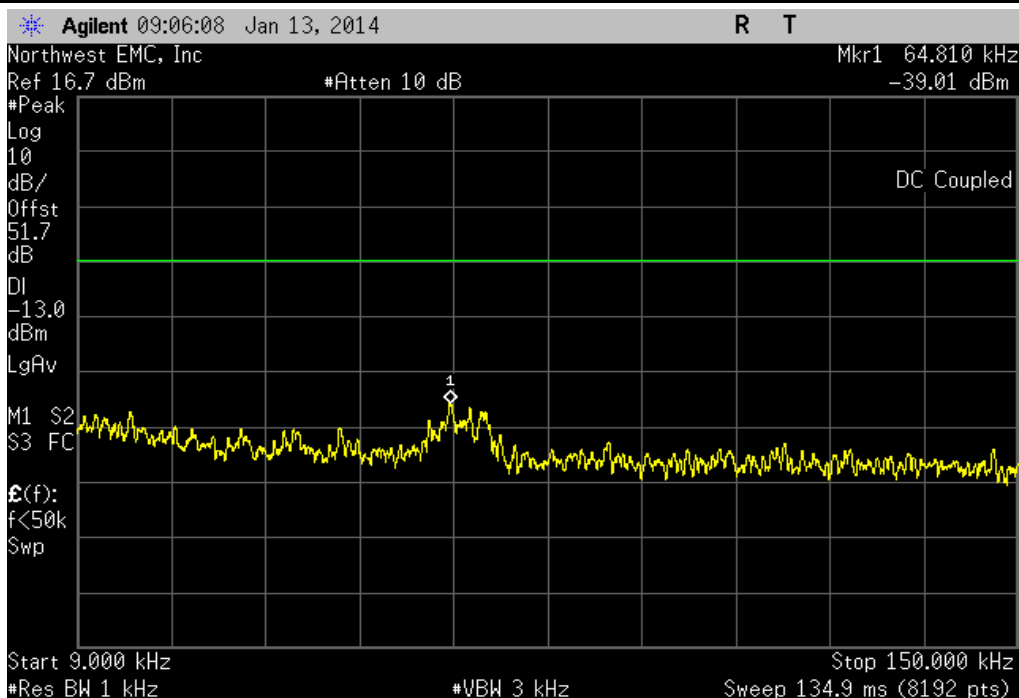
| Port A, LTE 15M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -31.02 dBm | -13 dBm | Pass   |  |



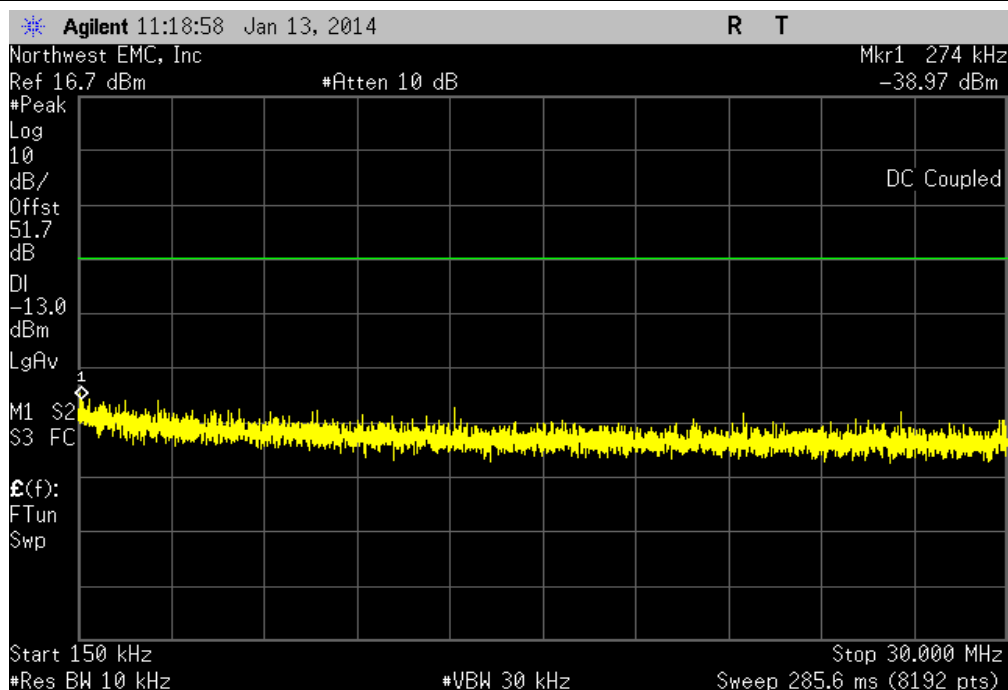
| Port A, LTE 15M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -18.36 dBm | -13 dBm | Pass   |  |



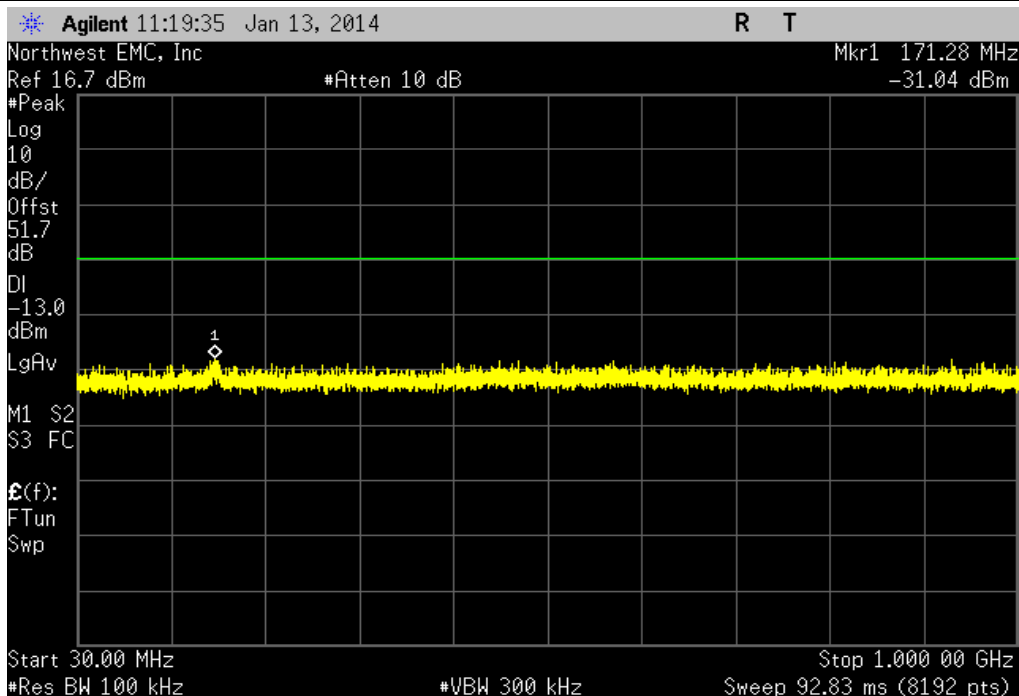
| Port A, LTE 15M, High Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -39.01 dBm | -13 dBm | Pass   |  |



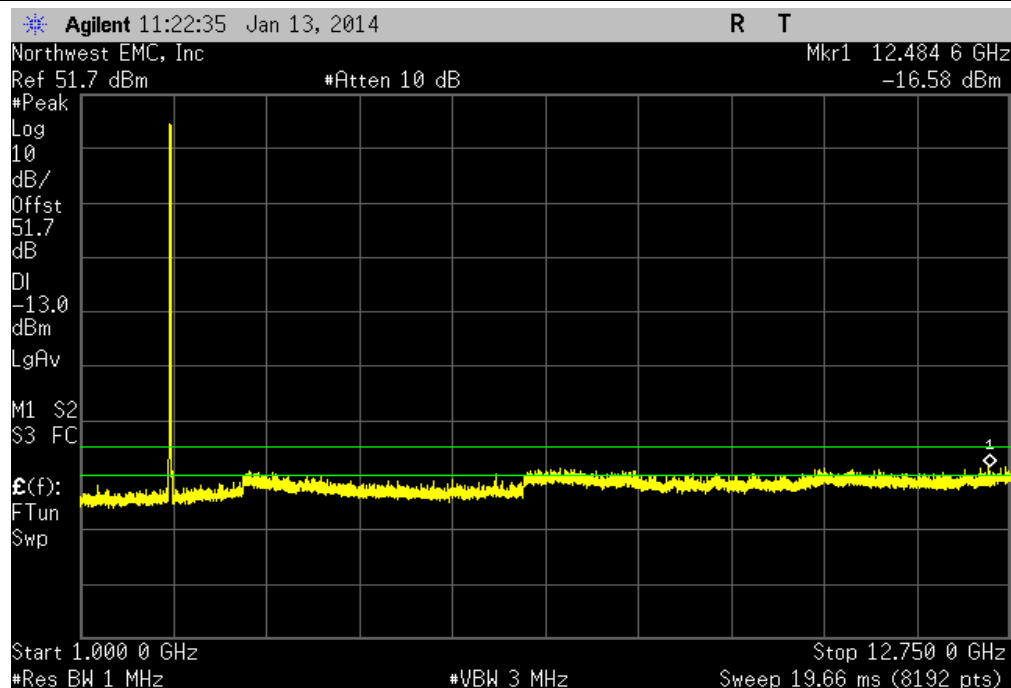
| Port A, LTE 15M, High Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -38.97 dBm | -13 dBm | Pass   |  |



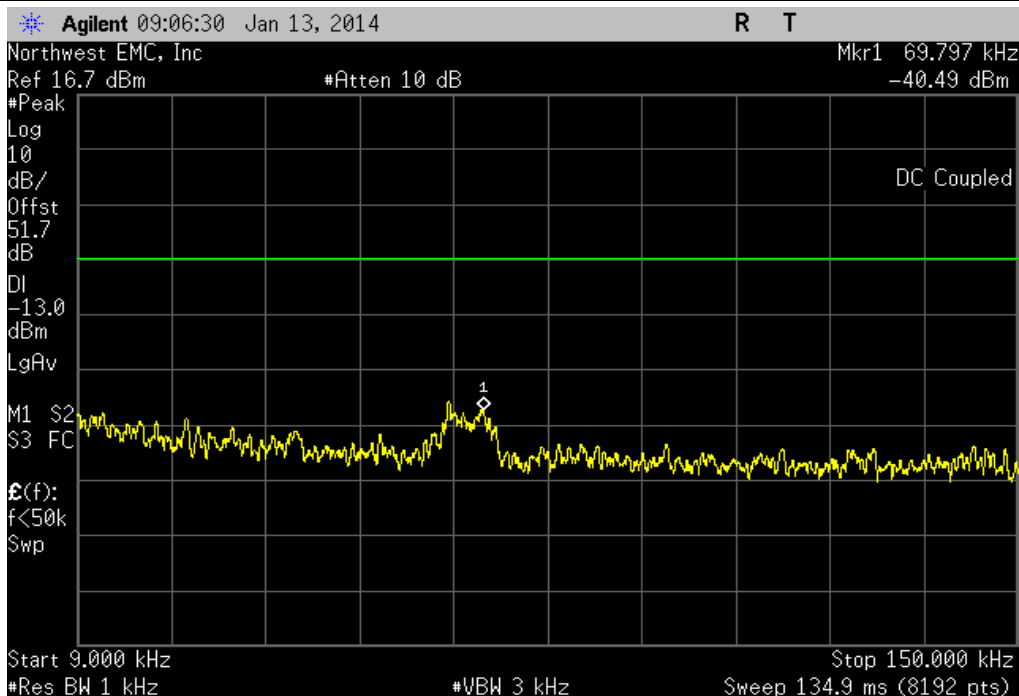
| Port A, LTE 15M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -31.04 dBm | -13 dBm | Pass   |  |



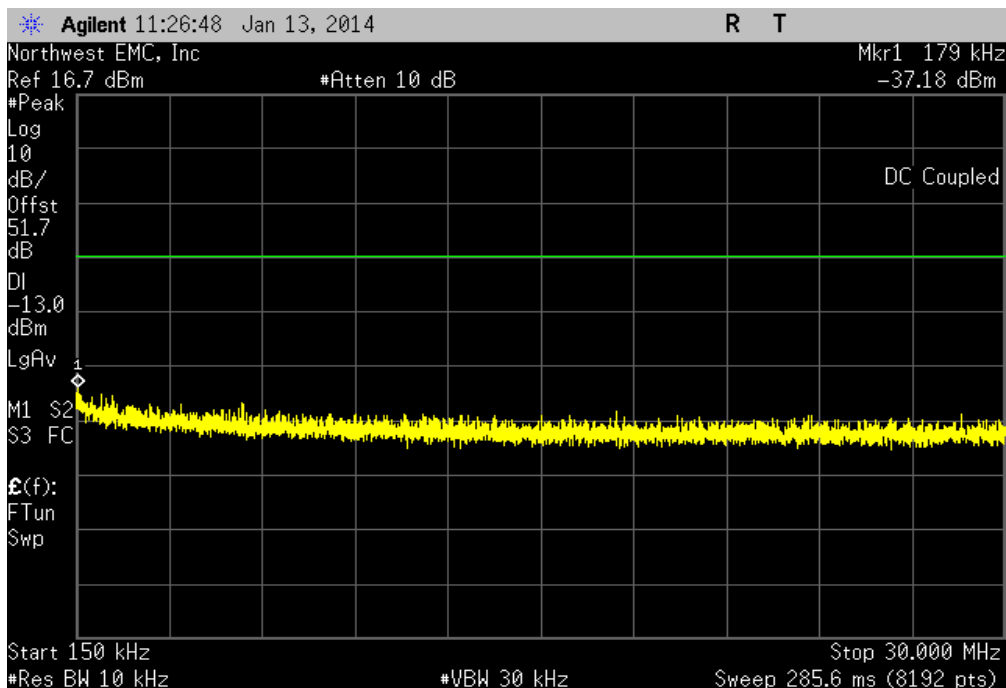
| Port A, LTE 15M, High Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -16.58 dBm | -13 dBm | Pass   |  |



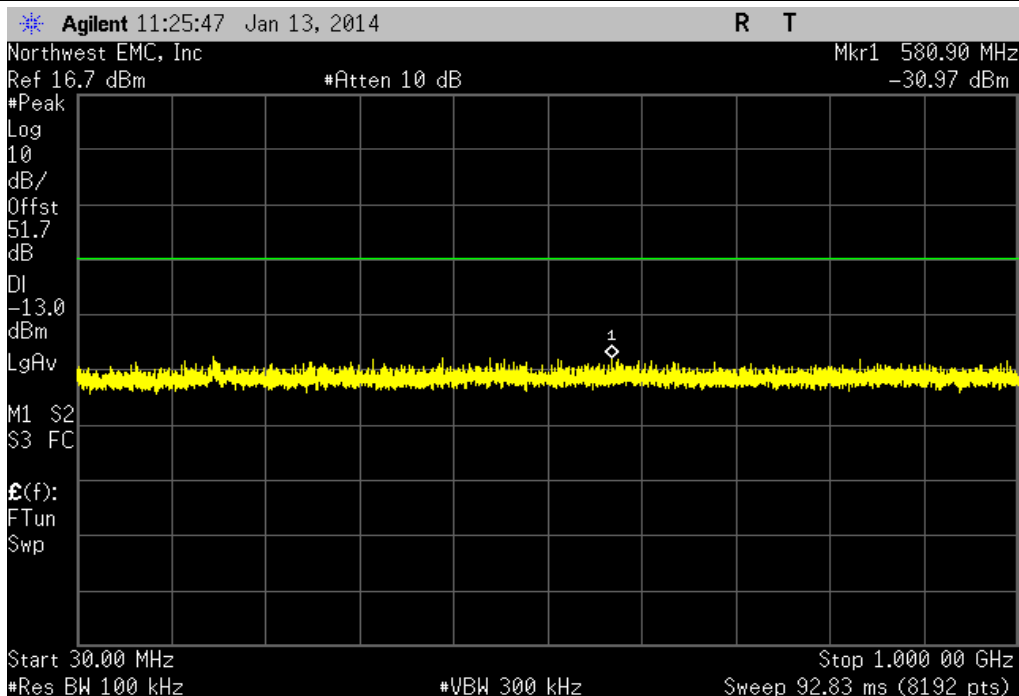
| Port A, LTE 15M, Multi Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -40.49 dBm | -13 dBm | Pass   |



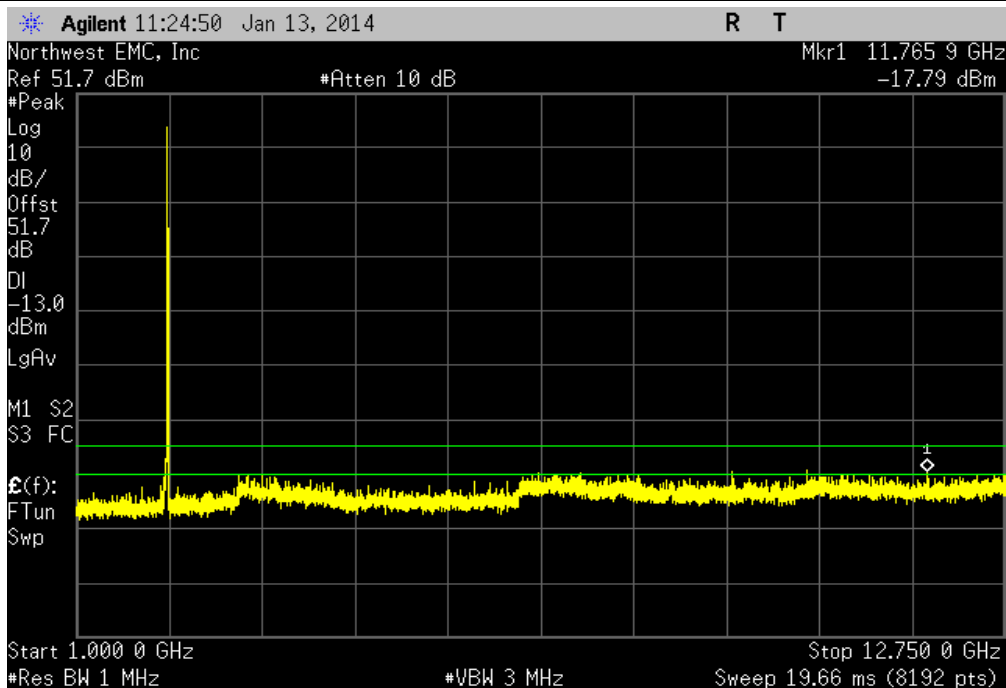
| Port A, LTE 15M, Multi Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|--------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                  |  |  |  |  | Value      | Limit   | Result |
|                                                  |  |  |  |  | -37.18 dBm | -13 dBm | Pass   |



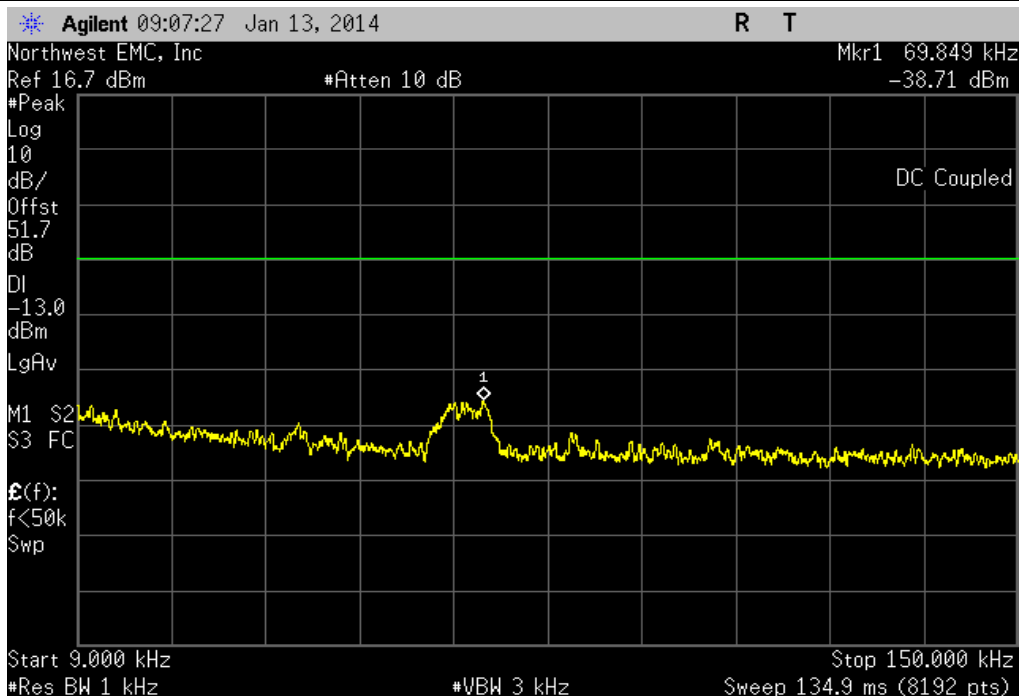
| Port A, LTE 15M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -30.97 dBm | -13 dBm | Pass   |  |



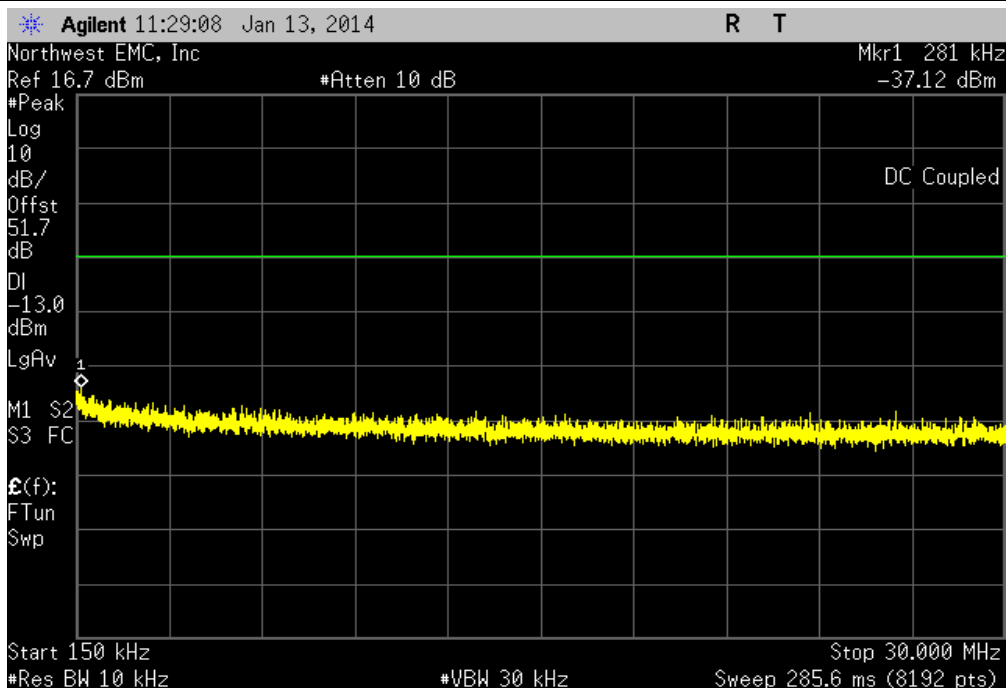
| Port A, LTE 15M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|---------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                   |  |  |  | Value      | Limit   | Result |  |
|                                                   |  |  |  | -17.79 dBm | -13 dBm | Pass   |  |



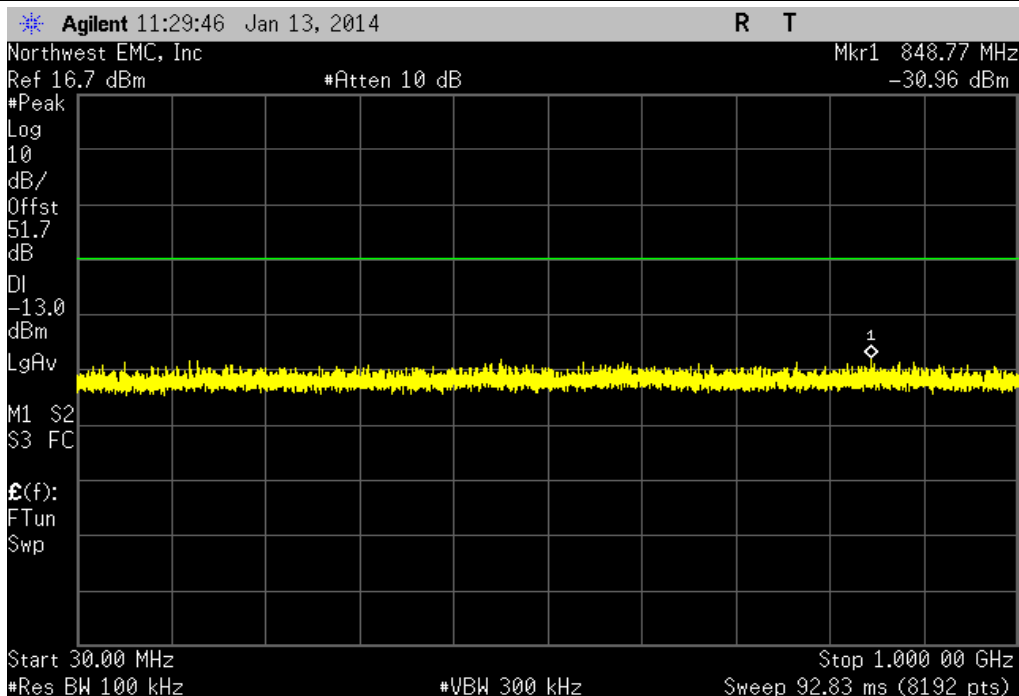
| Port A, LTE 20M, Low Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -38.71 dBm | -13 dBm | Pass   |



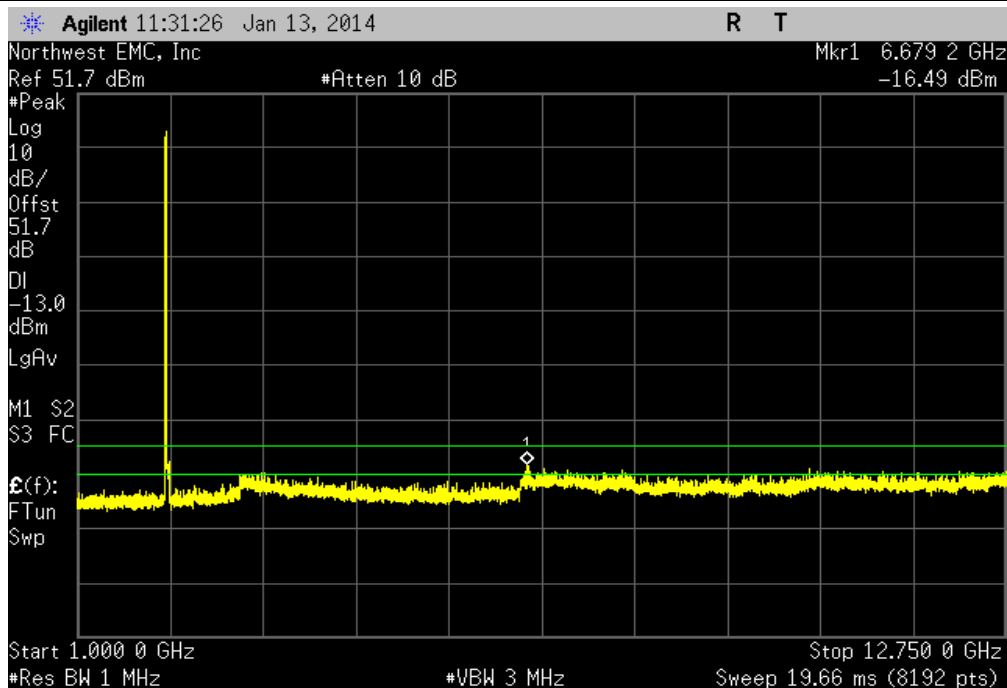
| Port A, LTE 20M, Low Channel, 150 kHz - 30 MHz |  |  |  |  |           |         |        |
|------------------------------------------------|--|--|--|--|-----------|---------|--------|
|                                                |  |  |  |  | Value     | Limit   | Result |
|                                                |  |  |  |  | -37.12dBm | -13 dBm | Pass   |



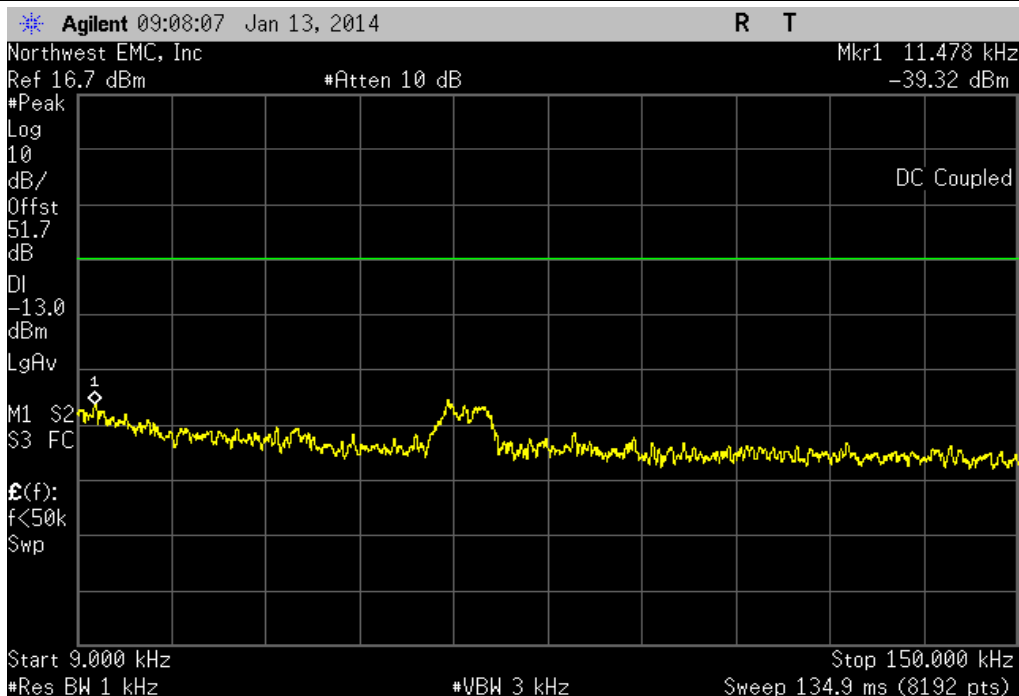
| Port A, LTE 20M, Low Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -30.96 dBm | -13 dBm | Pass   |  |



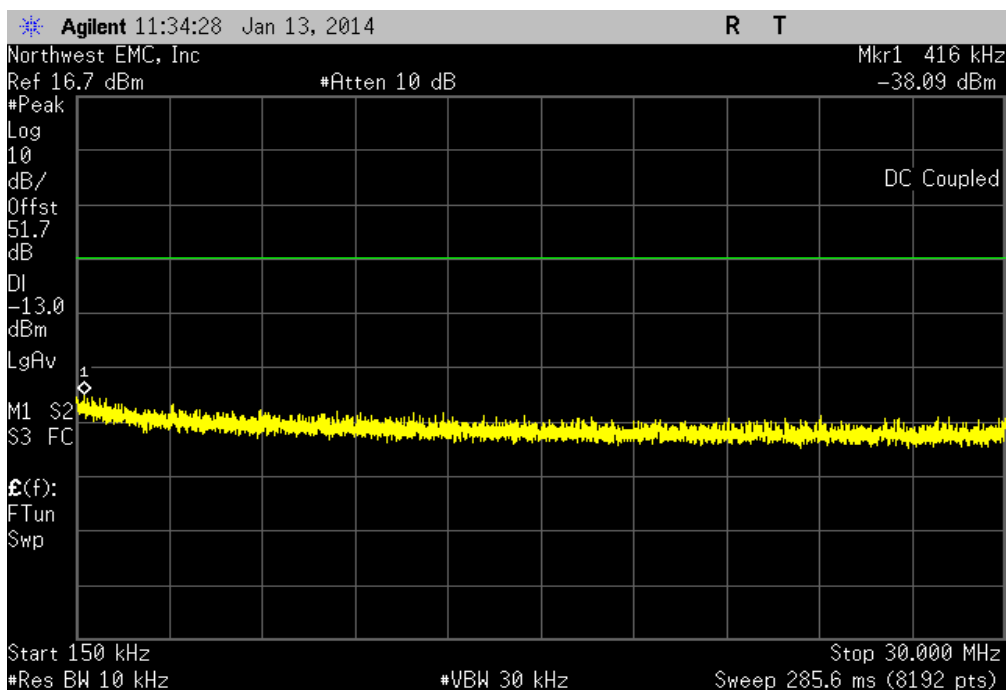
| Port A, LTE 20M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -16.49 dBm | -13 dBm | Pass   |  |



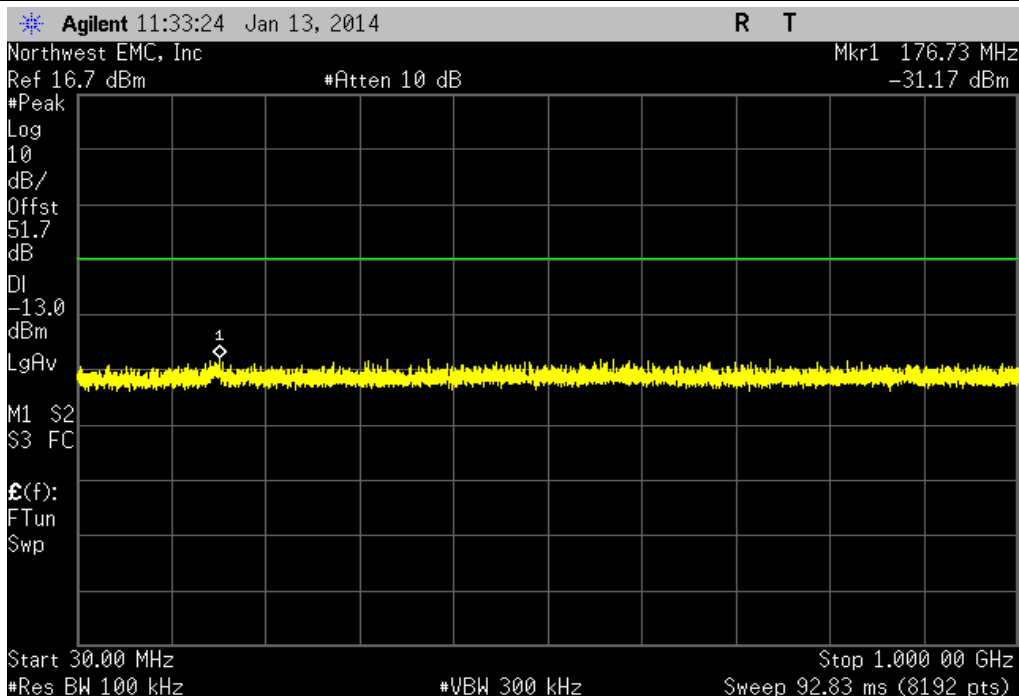
| Port A, LTE 20M, Mid Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -39.32 dBm | -13 dBm | Pass   |



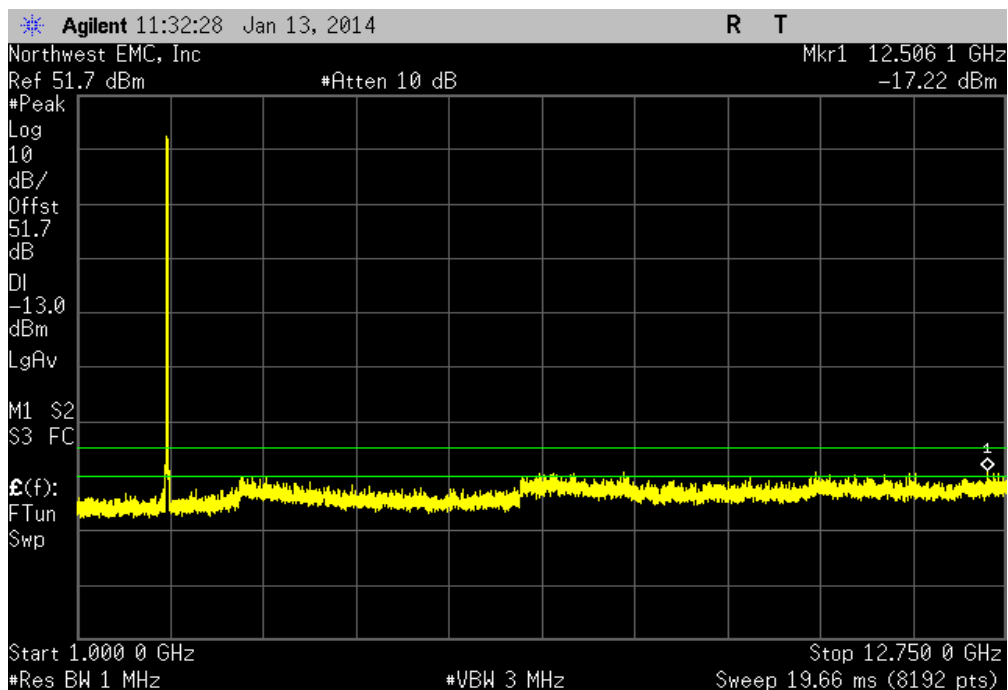
| Port A, LTE 20M, Mid Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -38.09 dBm | -13 dBm | Pass   |



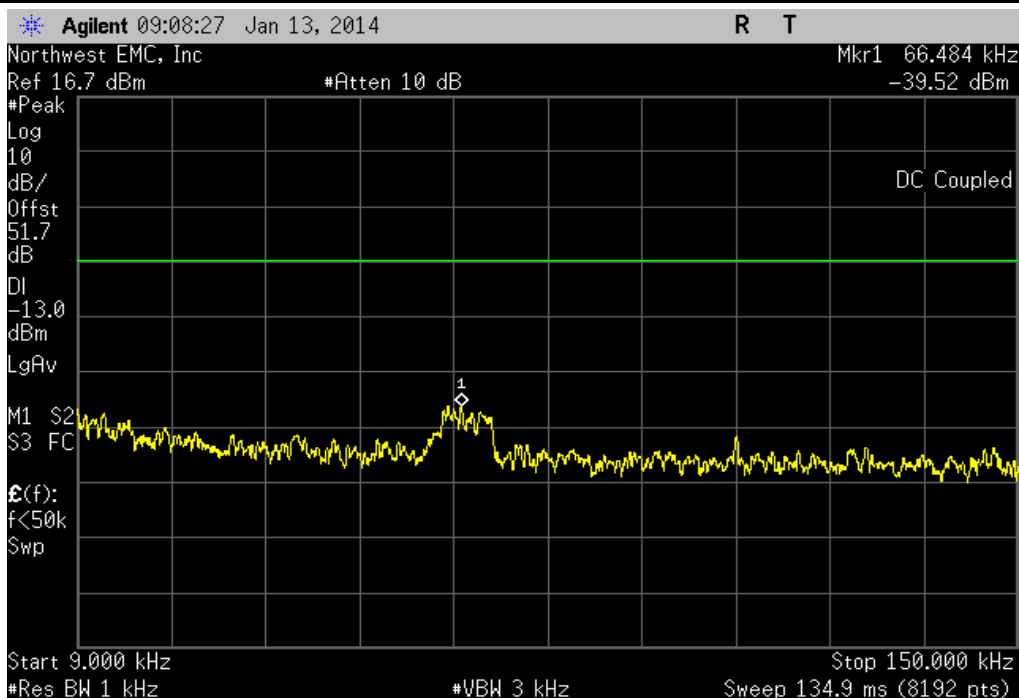
| Port A, LTE 20M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -31.17 dBm | -13 dBm | Pass   |  |



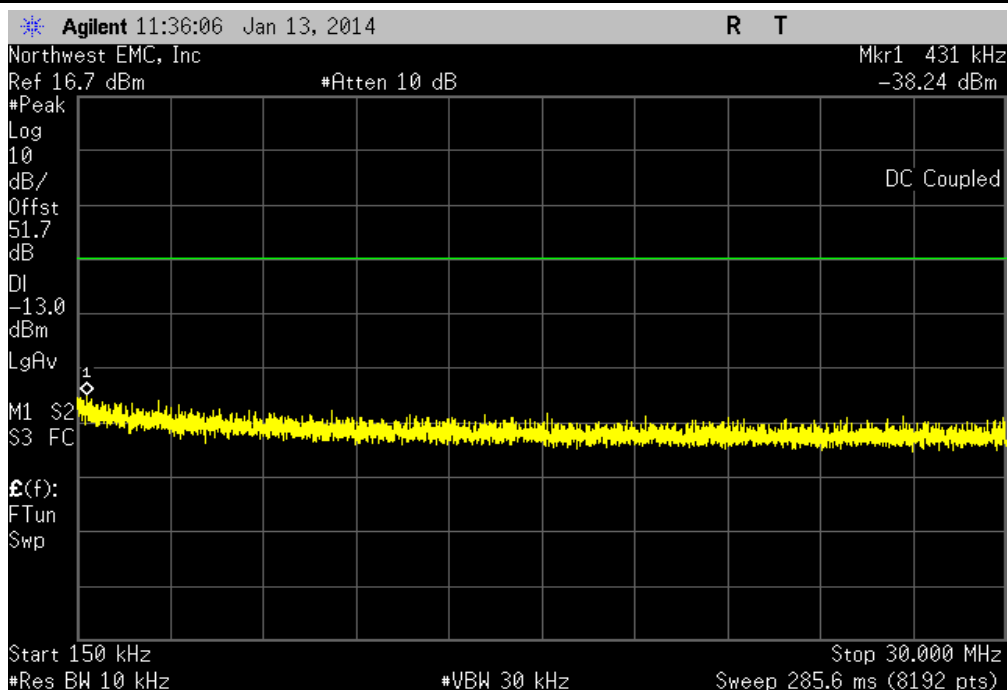
| Port A, LTE 20M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -17.22 dBm | -13 dBm | Pass   |  |



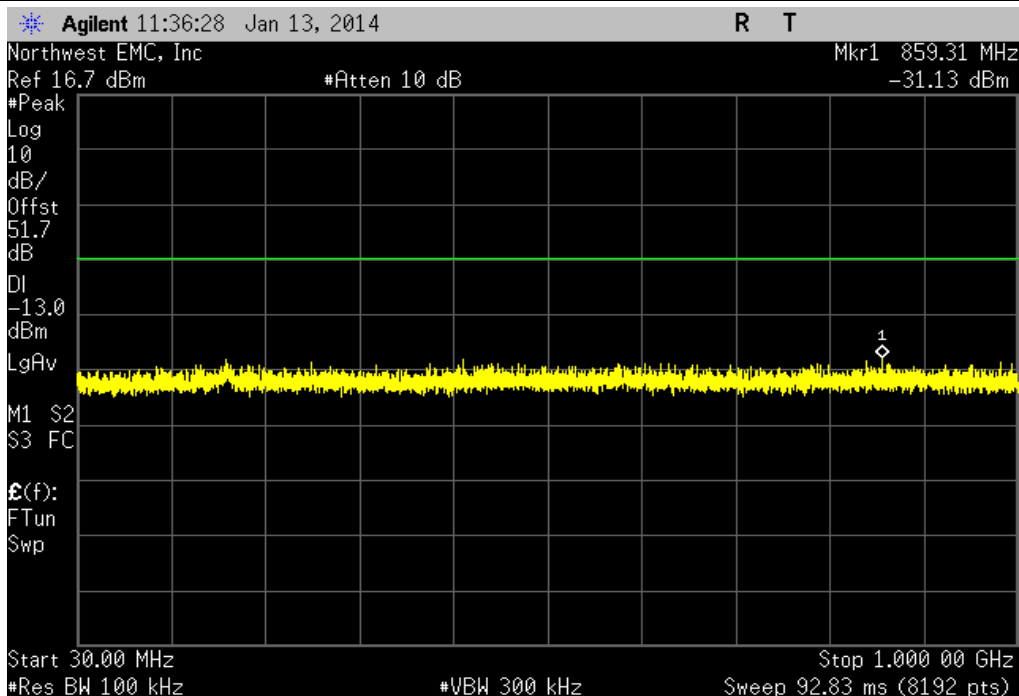
| Port A, LTE 20M, High Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -39.52 dBm | -13 dBm | Pass   |  |



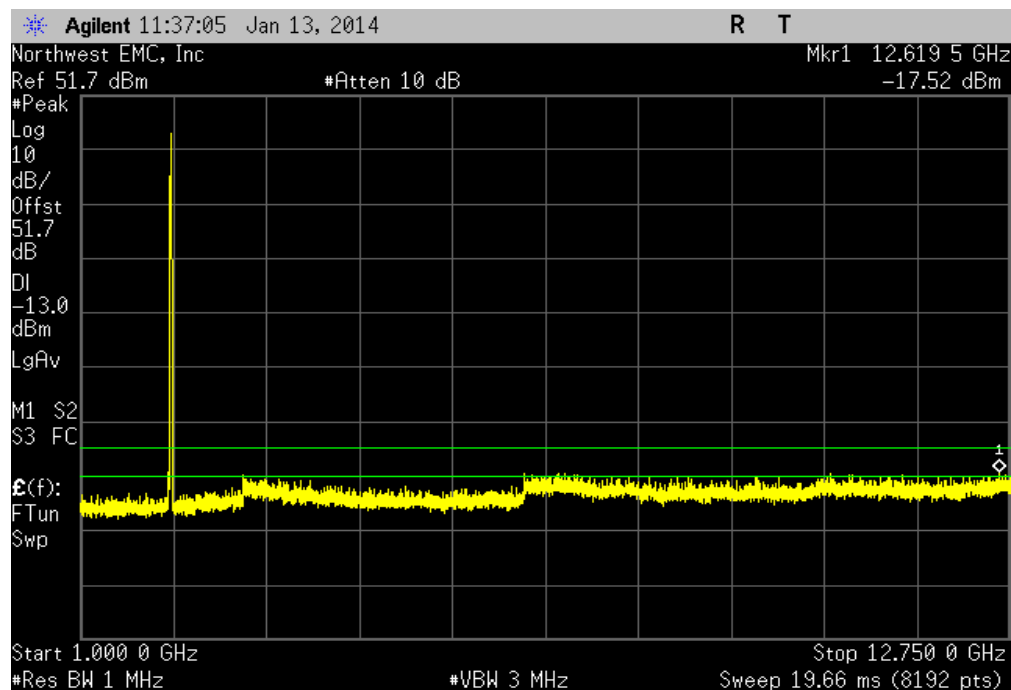
| Port A, LTE 20M, High Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -38.24 dBm | -13 dBm | Pass   |  |



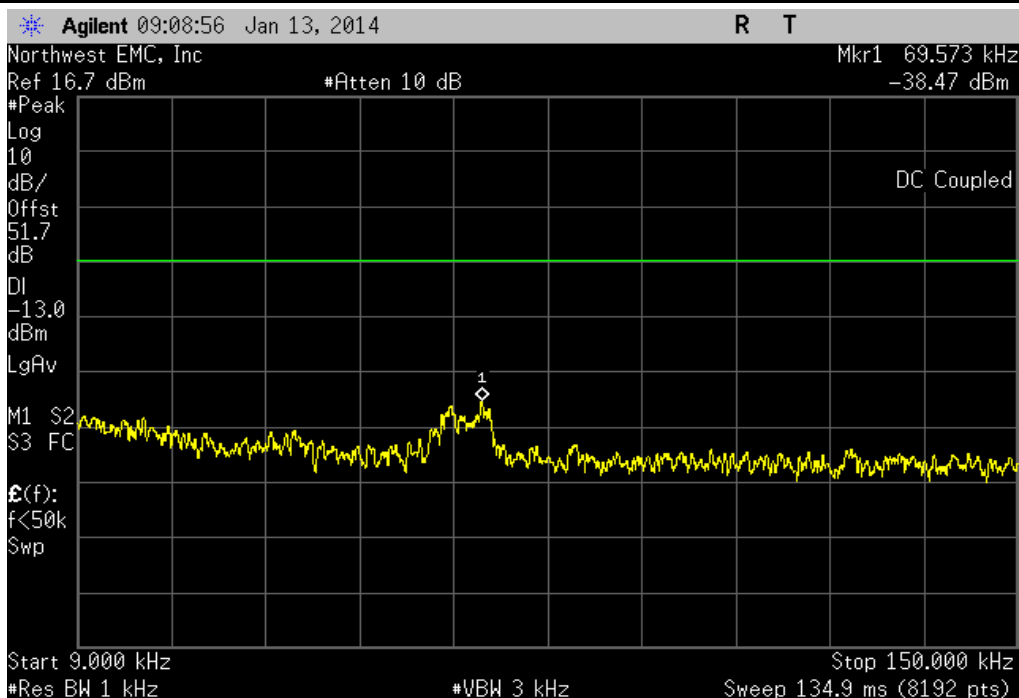
| Port A, LTE 20M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -31.13 dBm | -13 dBm | Pass   |  |



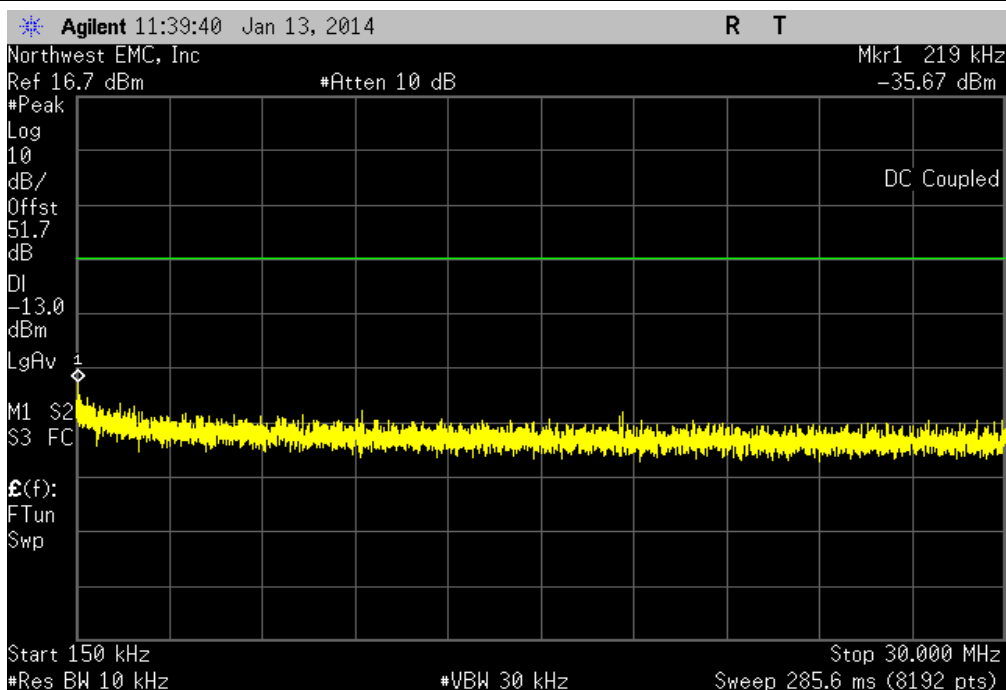
| Port A, LTE 20M, High Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -17.52 dBm | -13 dBm | Pass   |  |



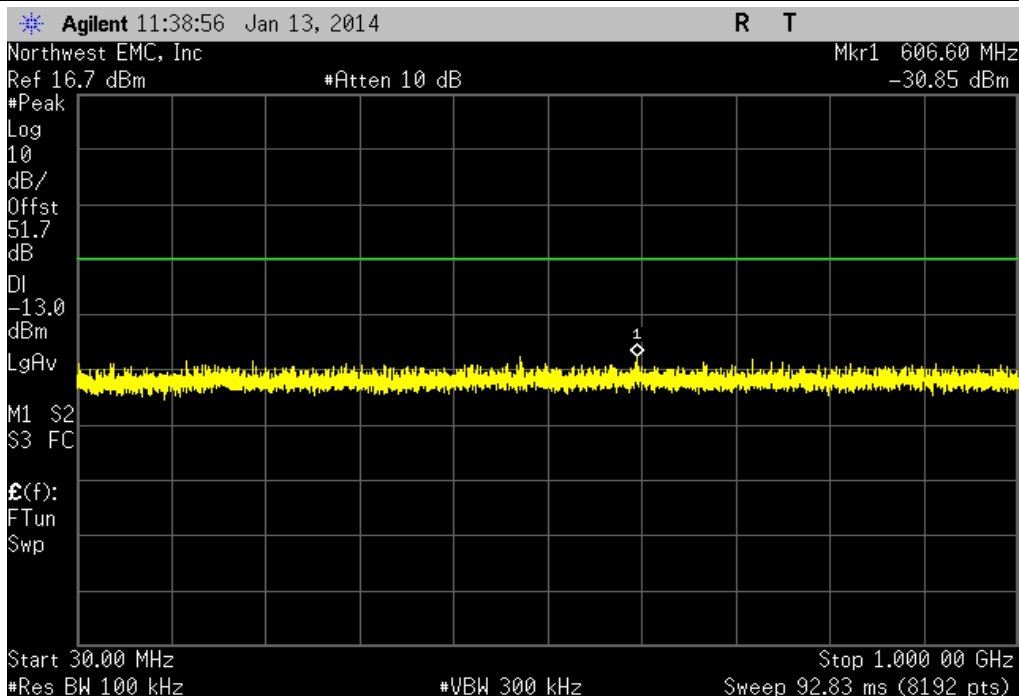
| Port A, LTE 20M, Multi Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -38.47 dBm | -13 dBm | Pass   |



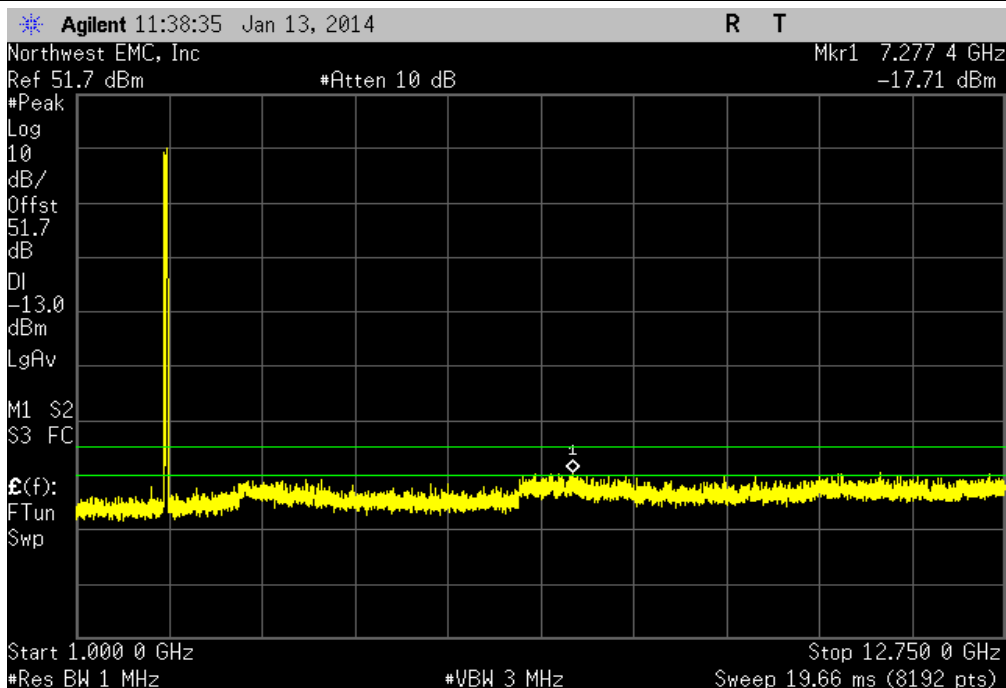
| Port A, LTE 20M, Multi Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|--------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                  |  |  |  |  | Value      | Limit   | Result |
|                                                  |  |  |  |  | -35.67 dBm | -13 dBm | Pass   |



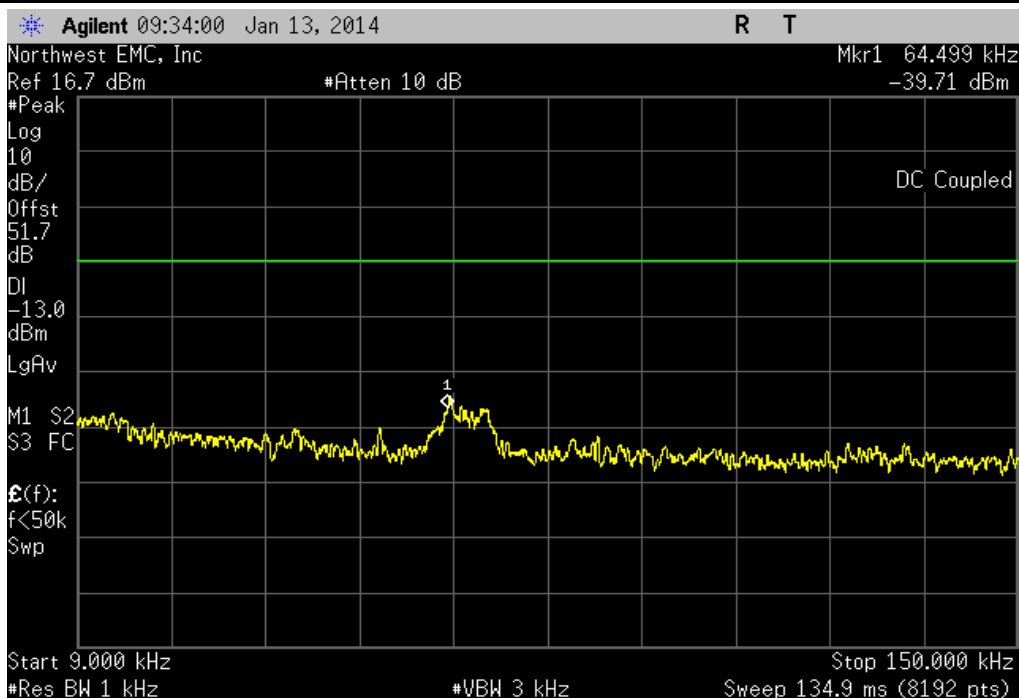
| Port A, LTE 20M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -30.85 dBm | -13 dBm | Pass   |  |



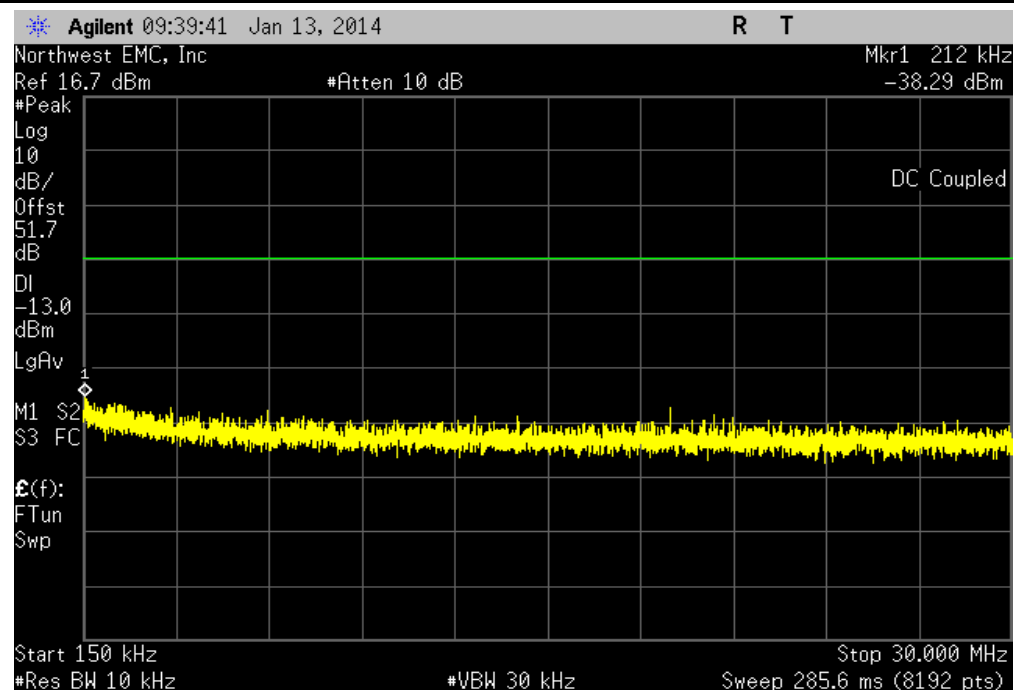
| Port A, LTE 20M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|---------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                   |  |  |  | Value      | Limit   | Result |  |
|                                                   |  |  |  | -17.71 dBm | -13 dBm | Pass   |  |



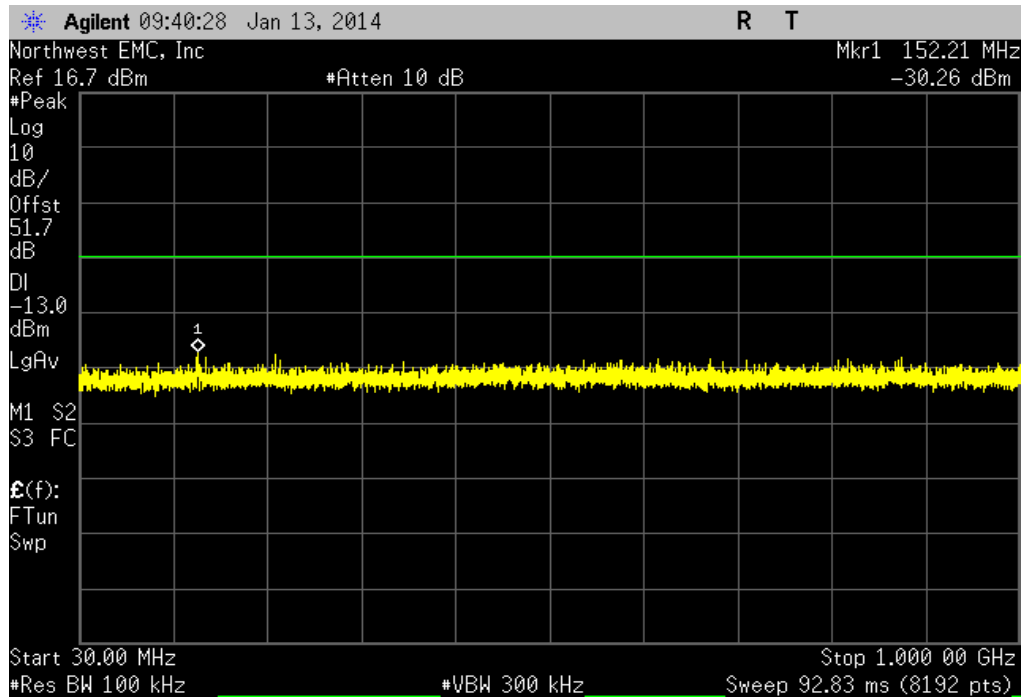
| Port B, LTE 5M, Low Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -39.71 dBm | -13 dBm | Pass   |  |



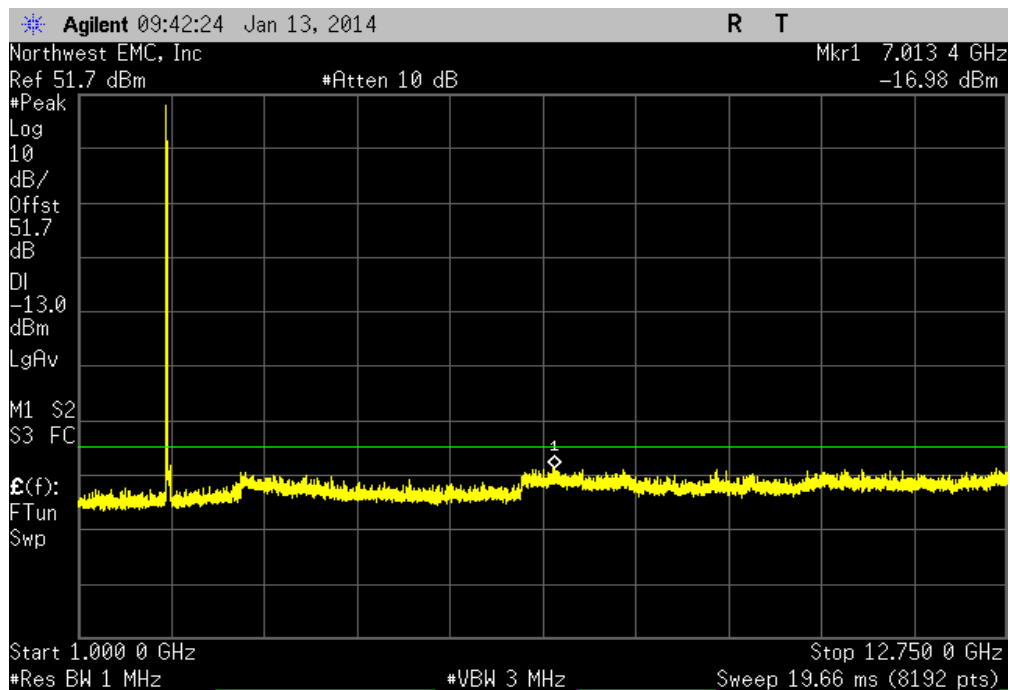
| Port B, LTE 5M, Low Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -38.29 dBm | -13 dBm | Pass   |  |



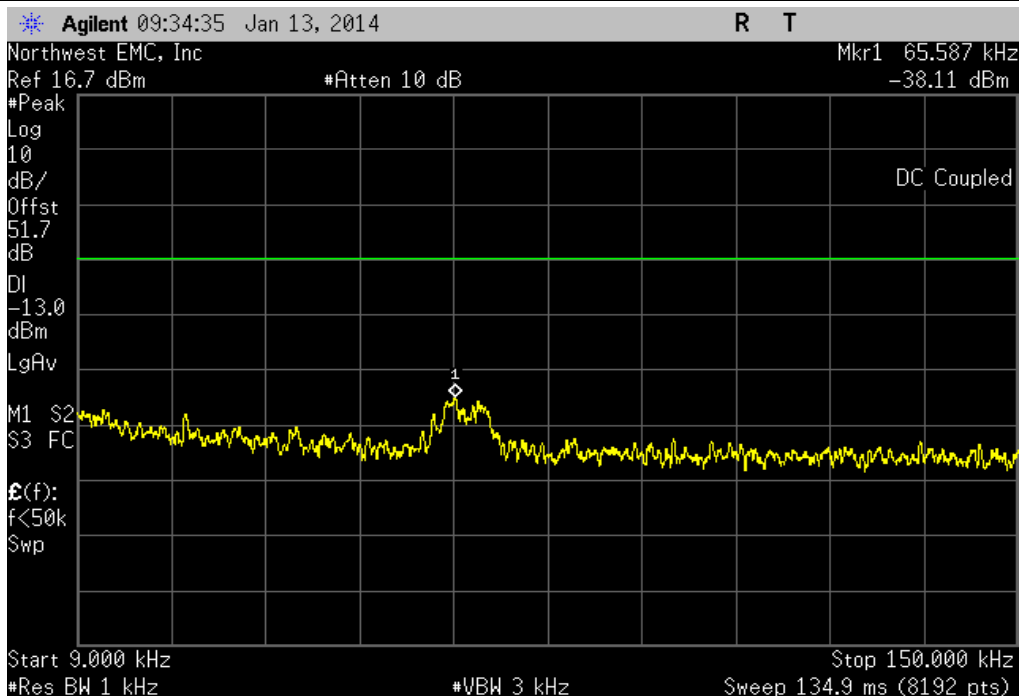
| Port B, LTE 5M, Low Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|---------------------------------------------|--|--|--|------------|---------|--------|--|
|                                             |  |  |  | Value      | Limit   | Result |  |
|                                             |  |  |  | -30.26 dBm | -13 dBm | Pass   |  |



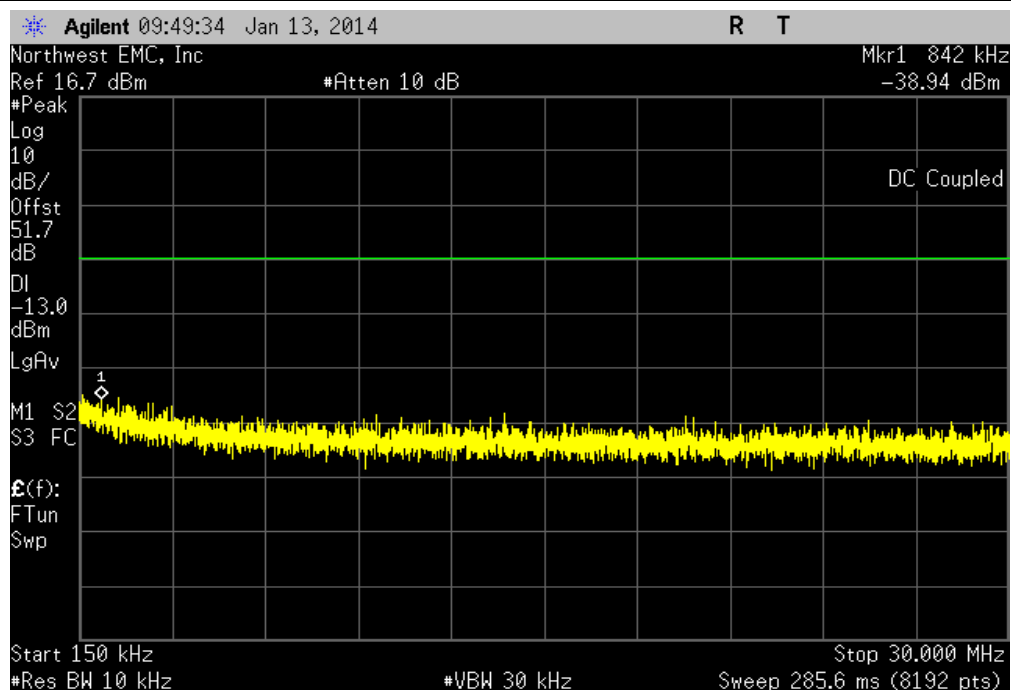
| Port B, LTE 5M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -16.98 dBm | -13 dBm | Pass   |  |



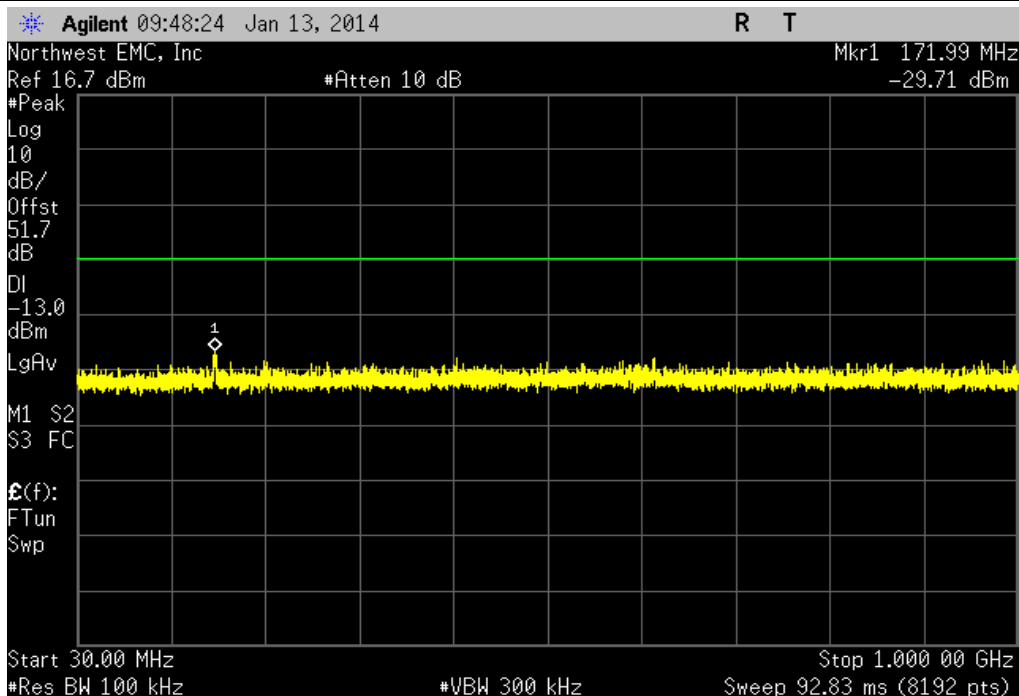
| Port B, LTE 5M, Mid Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -38.11 dBm | -13 dBm | Pass   |  |



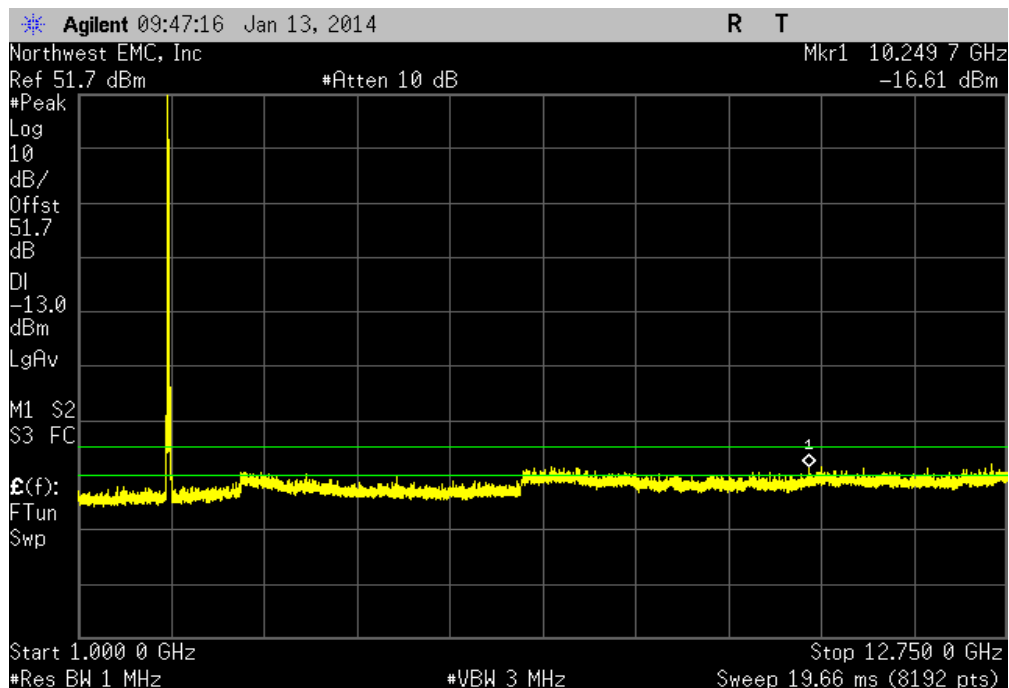
| Port B, LTE 5M, Mid Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -38.94 dBm | -13 dBm | Pass   |  |



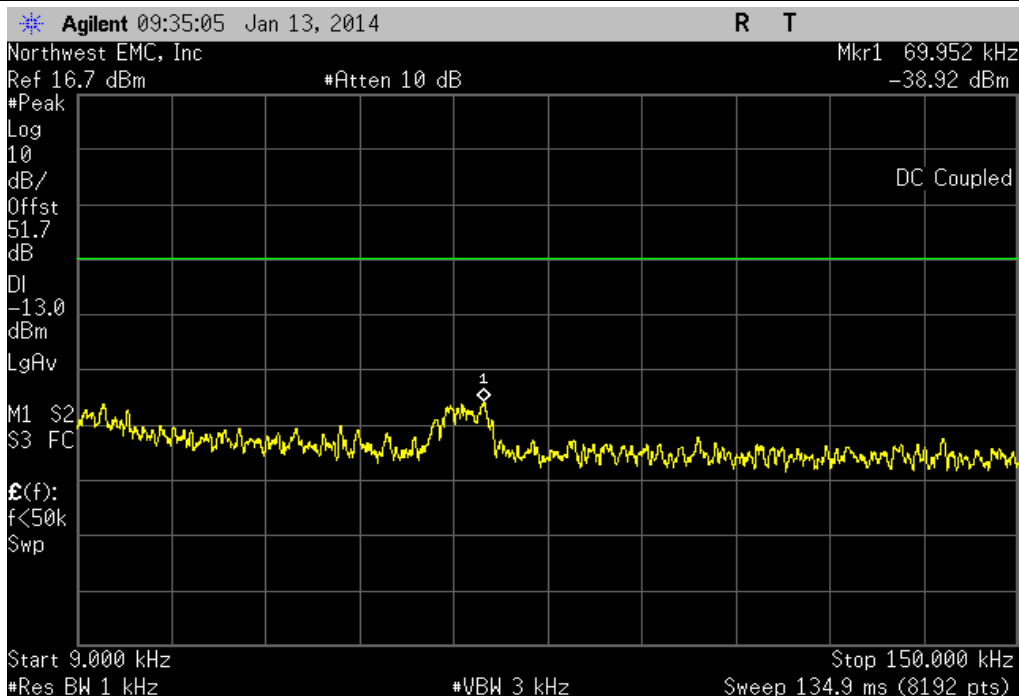
| Port B, LTE 5M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|---------------------------------------------|--|--|--|------------|---------|--------|--|
|                                             |  |  |  | Value      | Limit   | Result |  |
|                                             |  |  |  | -29.71 dBm | -13 dBm | Pass   |  |



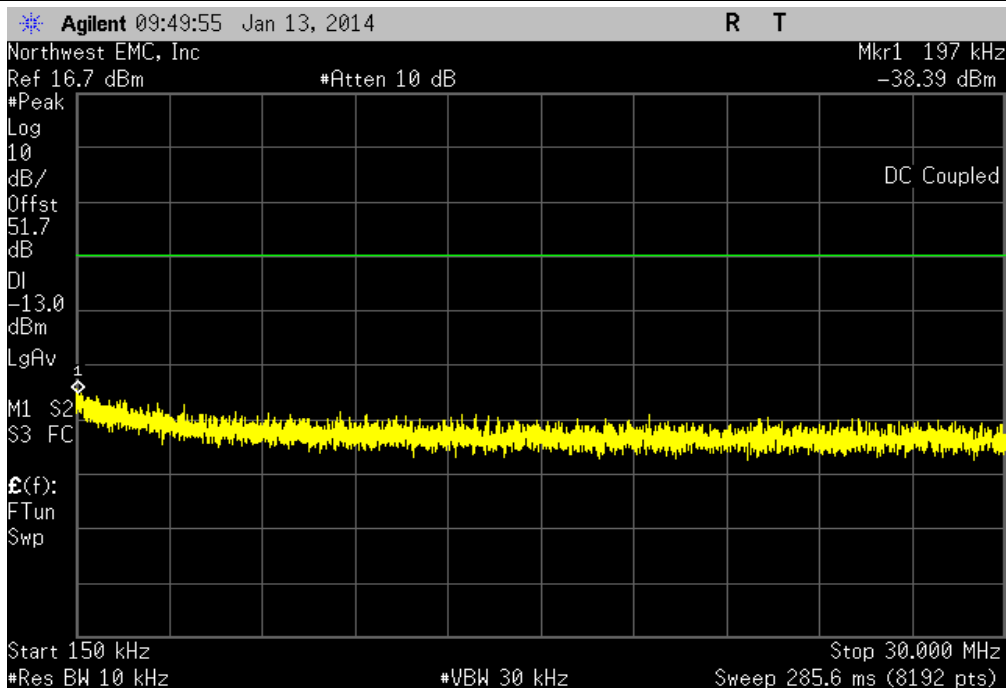
| Port B, LTE 5M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -16.61 dBm | -13 dBm | Pass   |  |



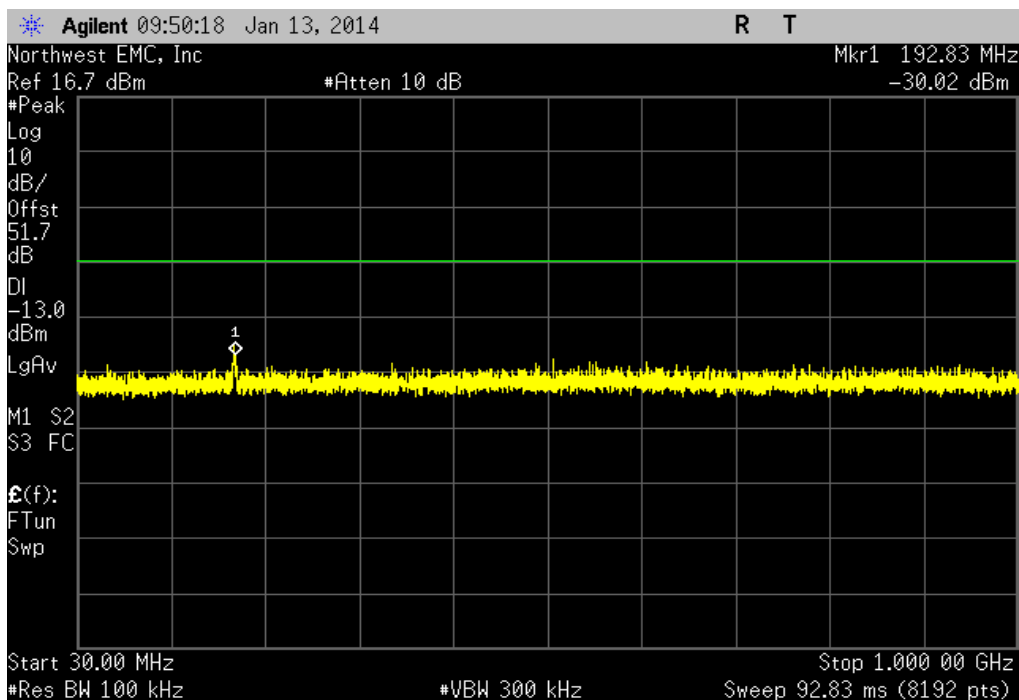
| Port B, LTE 5M, High Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -38.92 dBm | -13 dBm | Pass   |  |



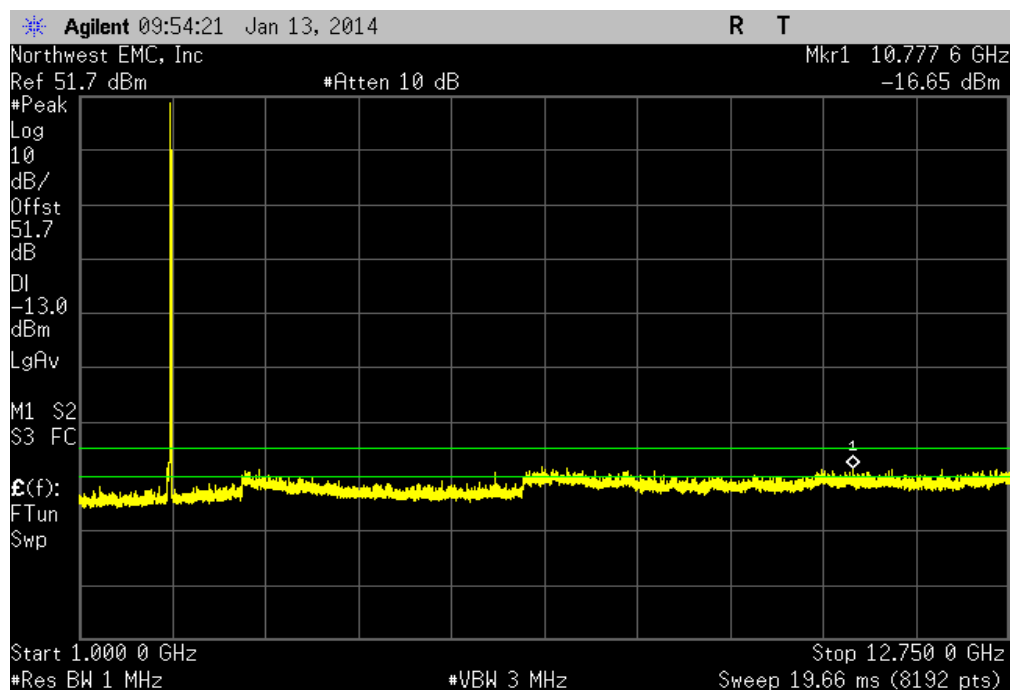
| Port B, LTE 5M, High Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -38.39 dBm | -13 dBm | Pass   |  |



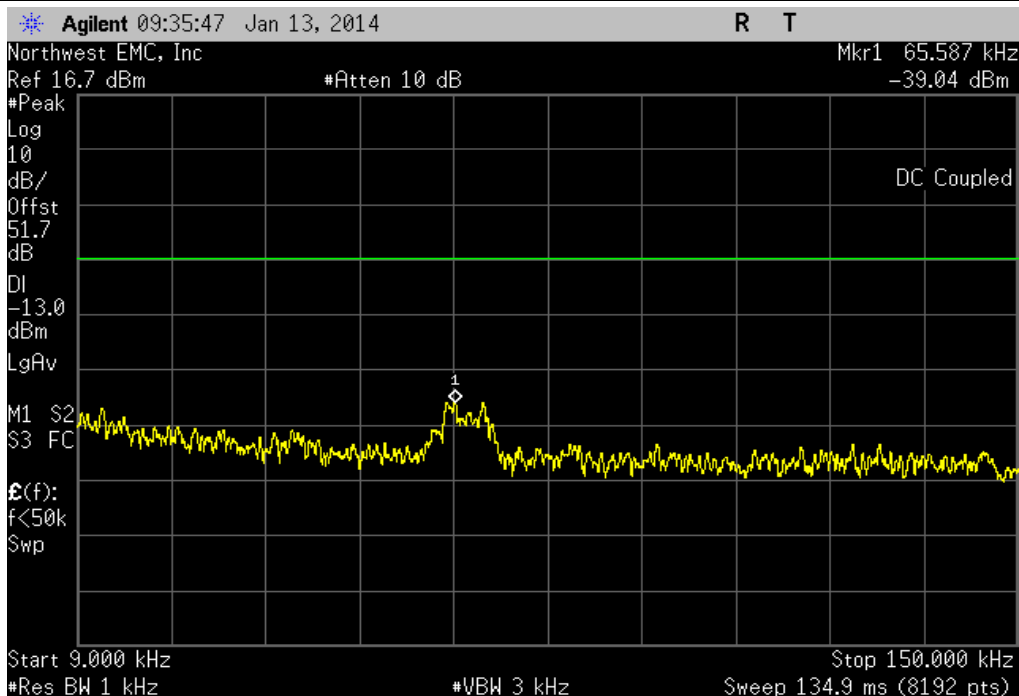
| Port B, LTE 5M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -30.02 dBm | -13 dBm | Pass   |  |



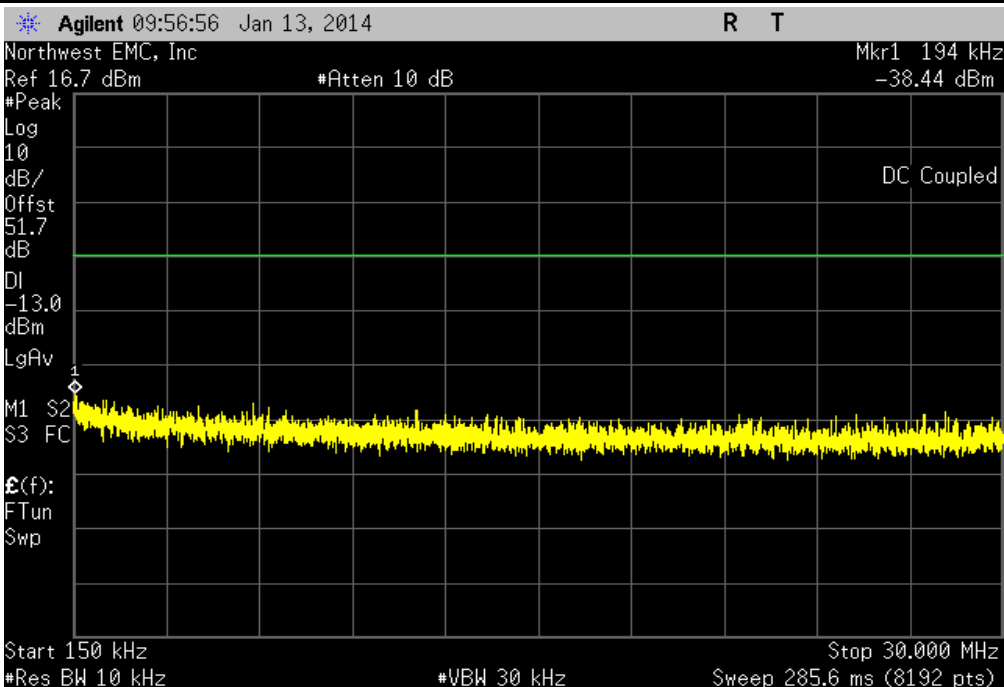
| Port B, LTE 5M, High Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -16.65 dBm | -13 dBm | Pass   |  |



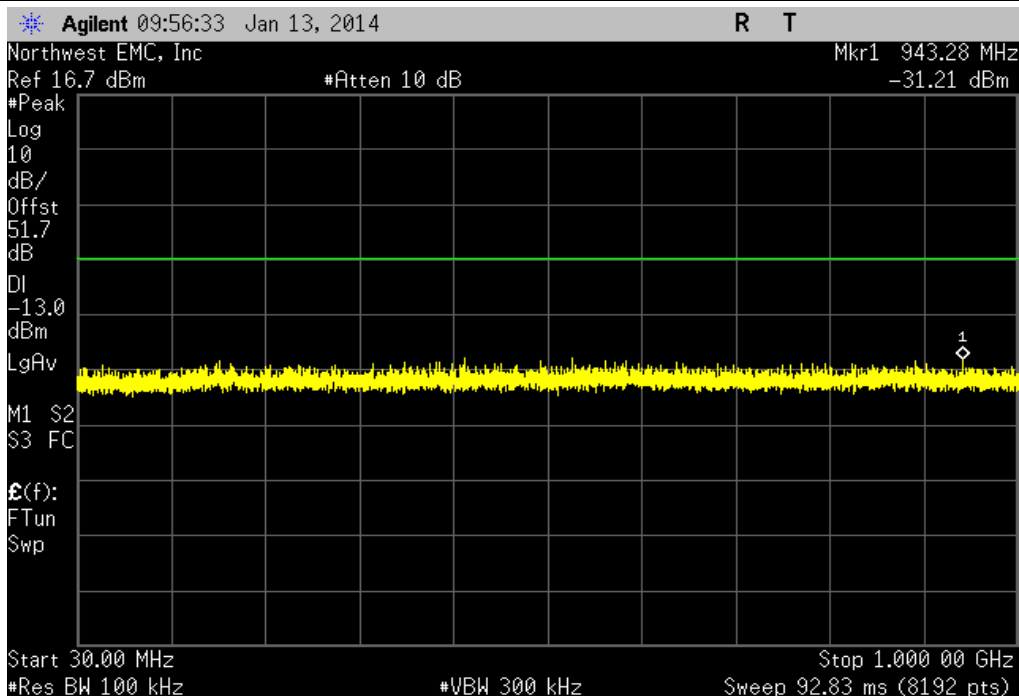
| Port B, LTE 5M, Multi Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -39.04 dBm | -13 dBm | Pass   |



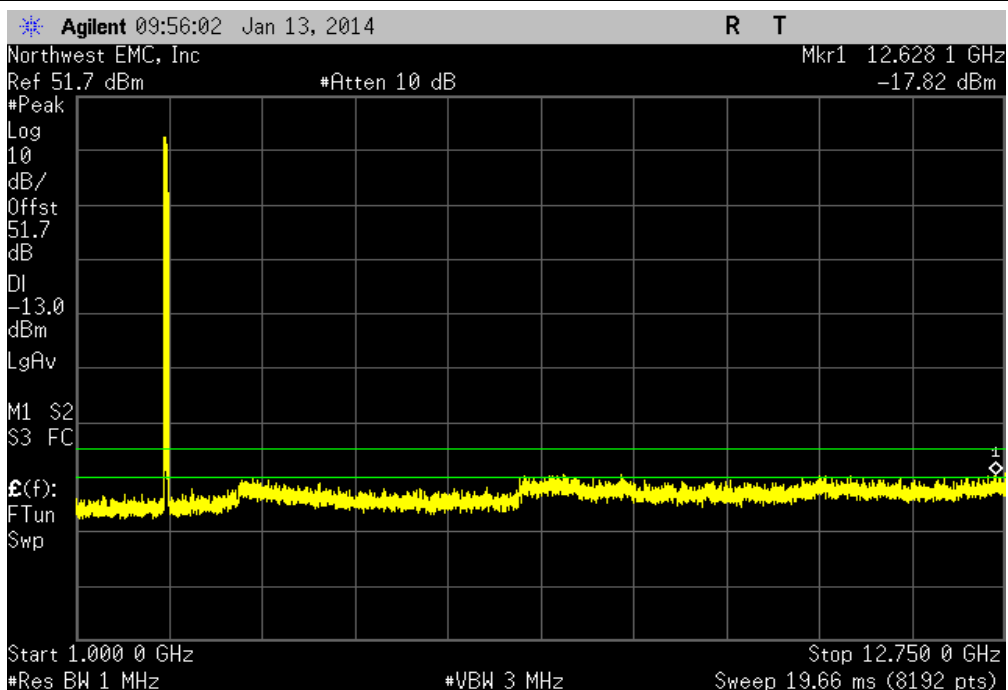
| Port B, LTE 5M, Multi Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -38.44 dBm | -13 dBm | Pass   |



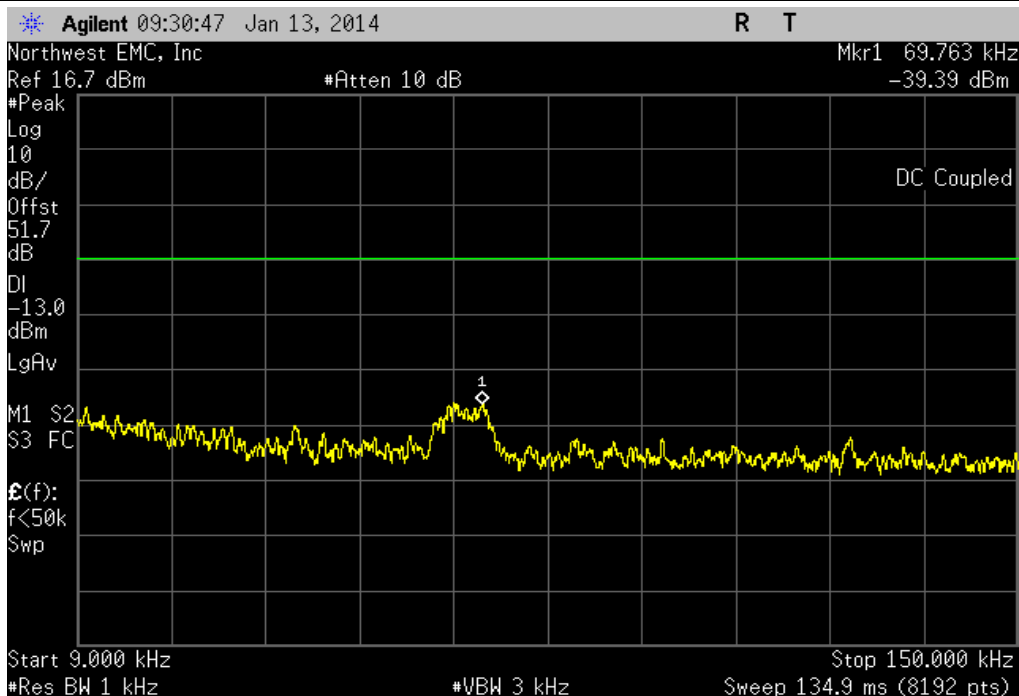
| Port B, LTE 5M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -31.21 dBm | -13 dBm | Pass   |  |



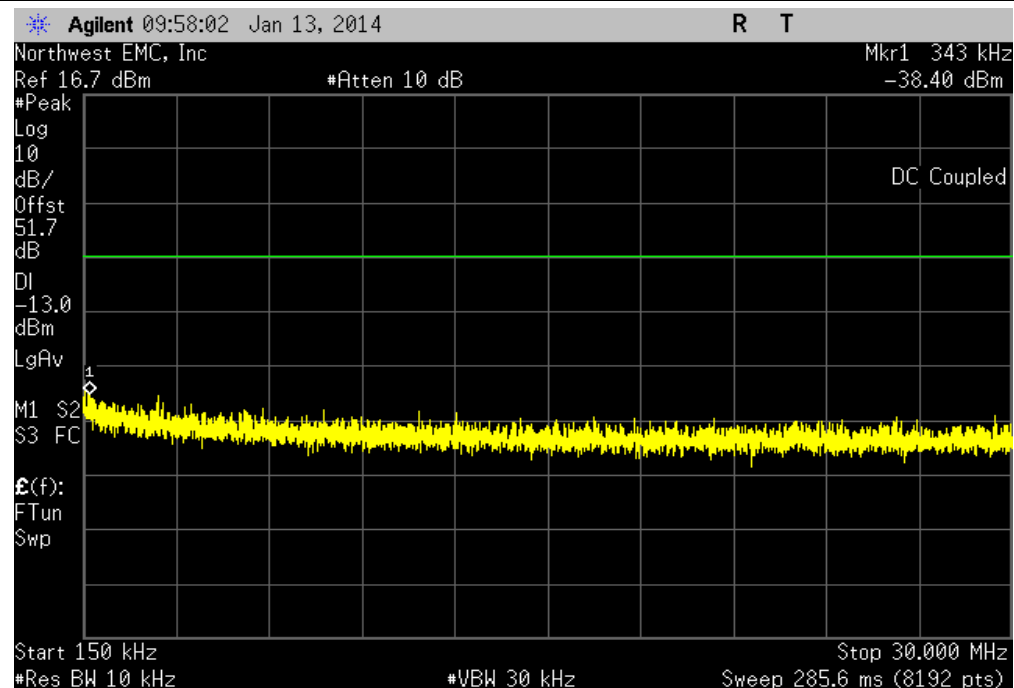
| Port B, LTE 5M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -17.82 dBm | -13 dBm | Pass   |  |



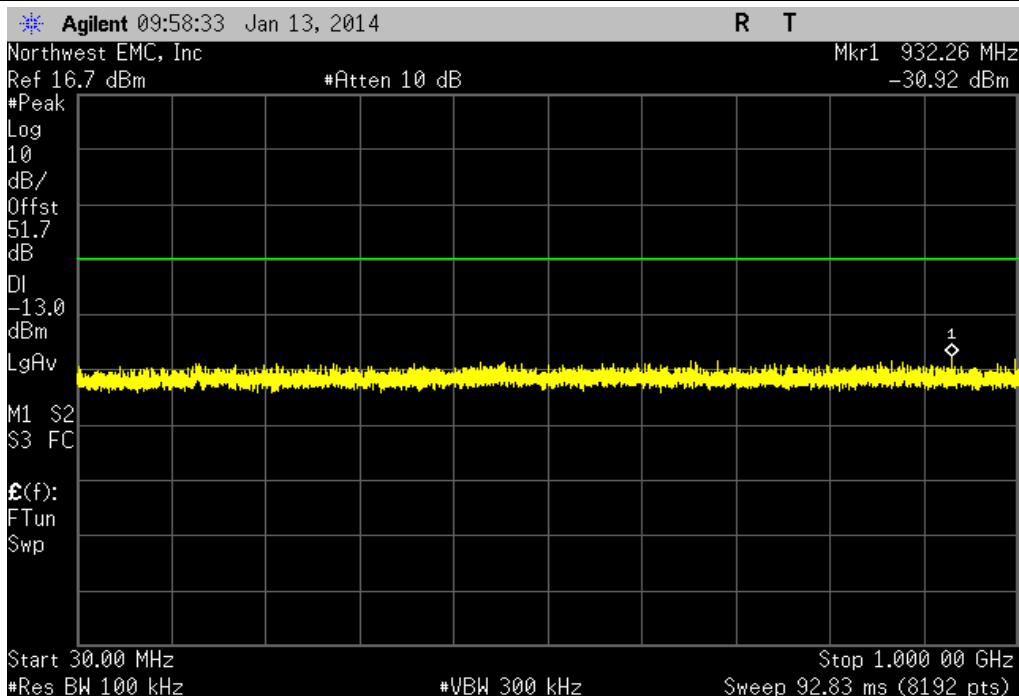
| Port B, LTE 10M, Low Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -39.39 dBm | -13 dBm | Pass   |  |



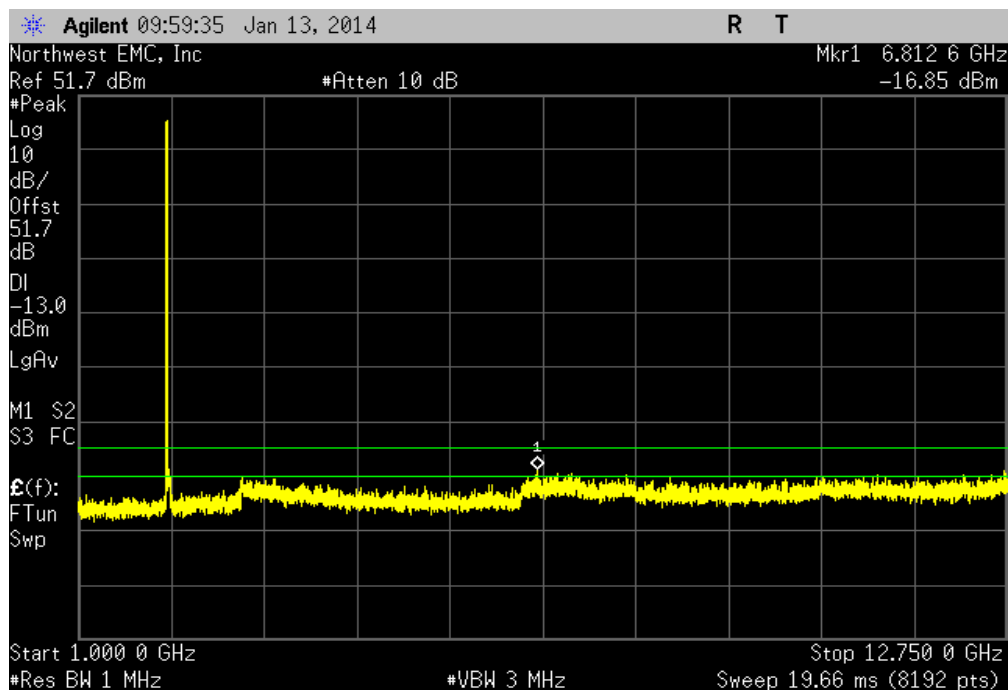
| Port B, LTE 10M, Low Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -38.40 dBm | -13 dBm | Pass   |  |



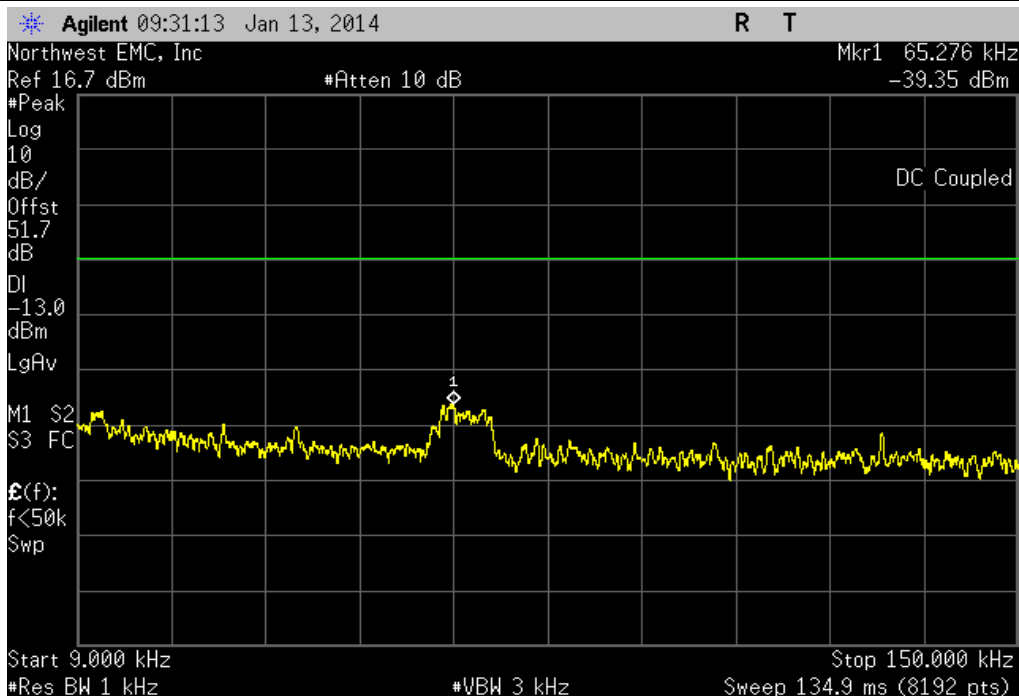
| Port B, LTE 10M, Low Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -30.92 dBm | -13 dBm | Pass   |  |



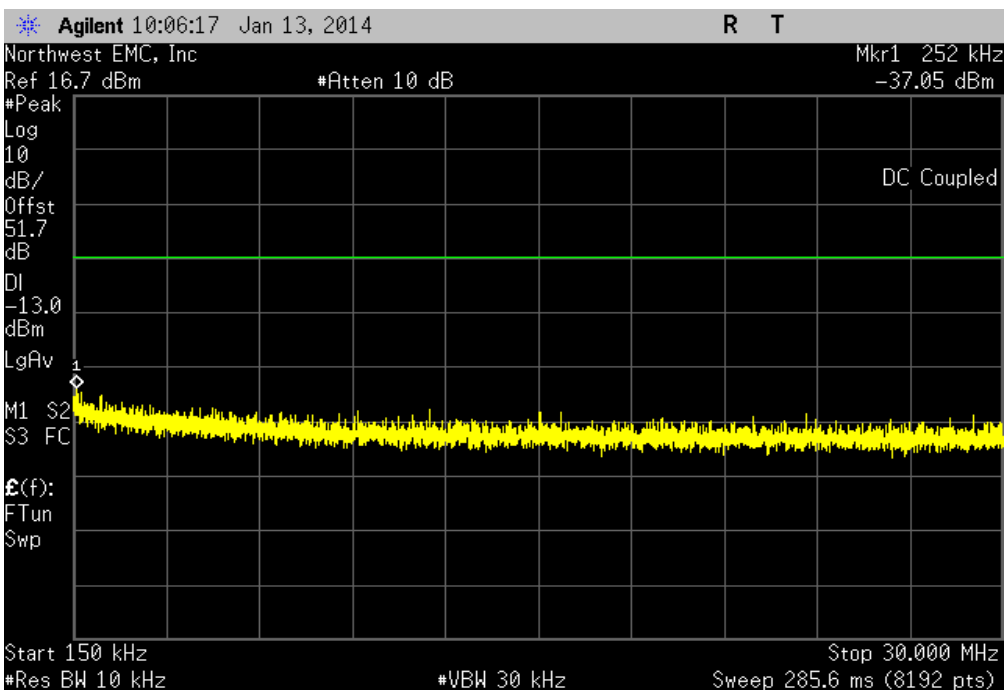
| Port B, LTE 10M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -16.85 dBm | -13 dBm | Pass   |  |



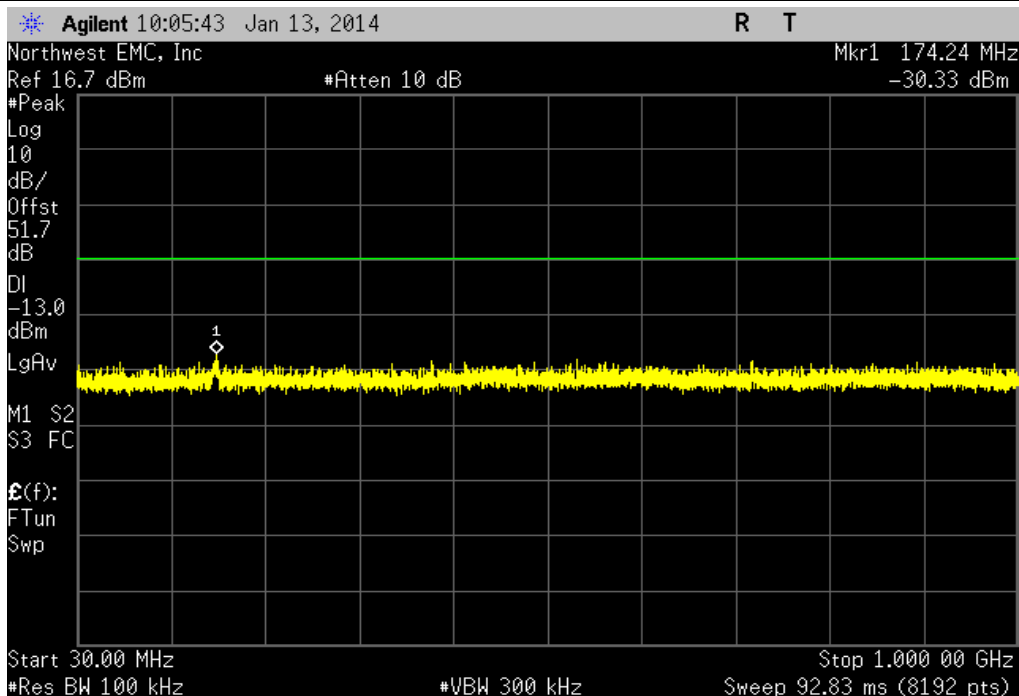
| Port B, LTE 10M, Mid Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -39.35 dBm | -13 dBm | Pass   |



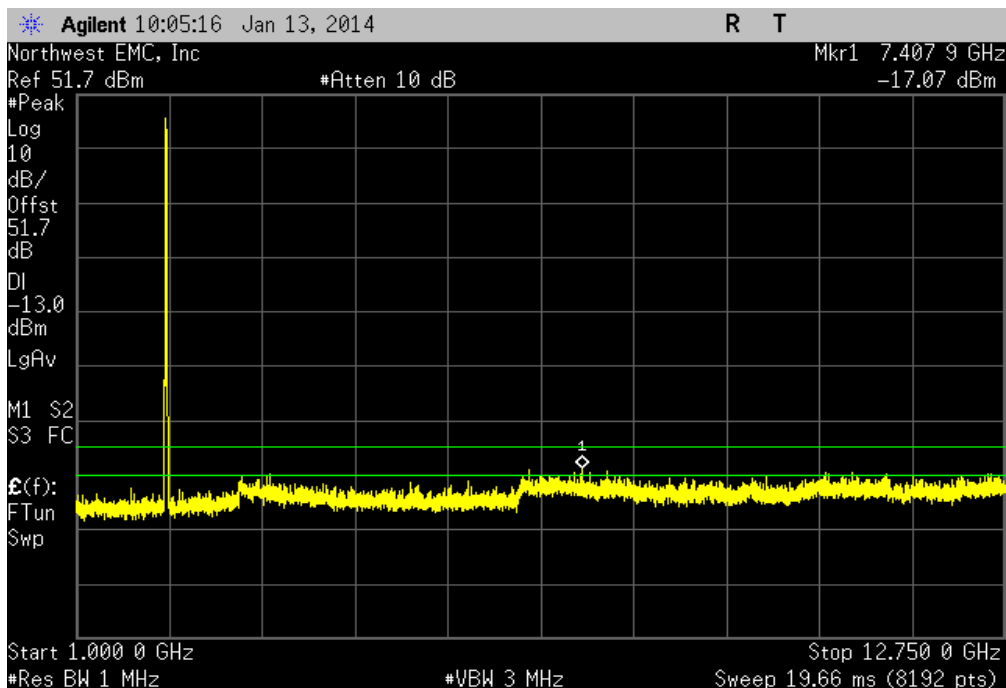
| Port B, LTE 10M, Mid Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -37.05 dBm | -13 dBm | Pass   |



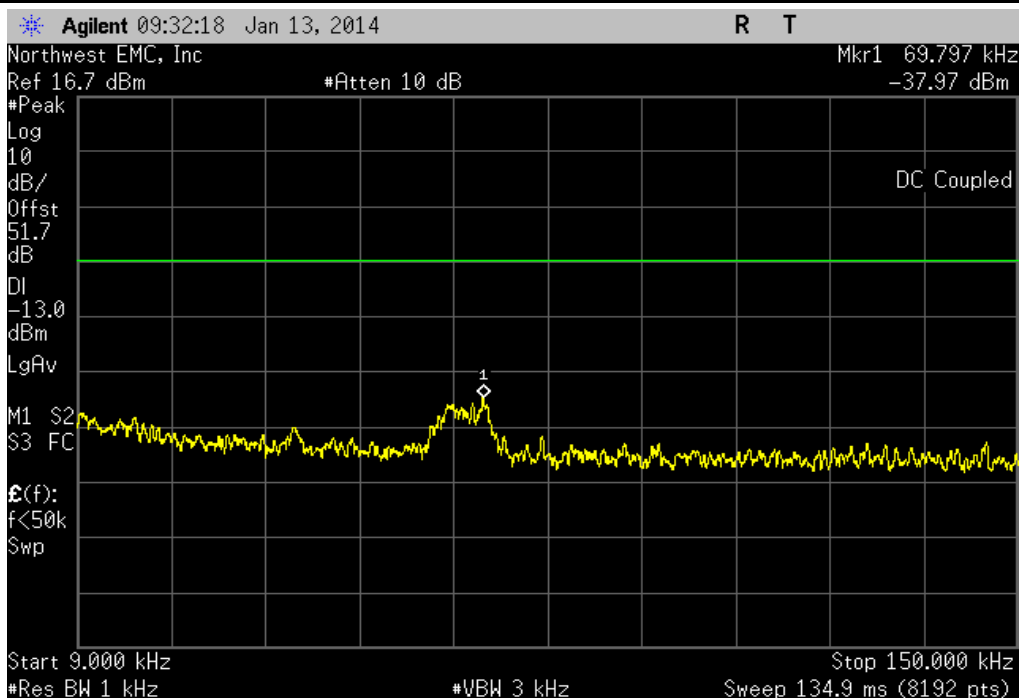
| Port B, LTE 10M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -30.33 dBm | -13 dBm | Pass   |  |



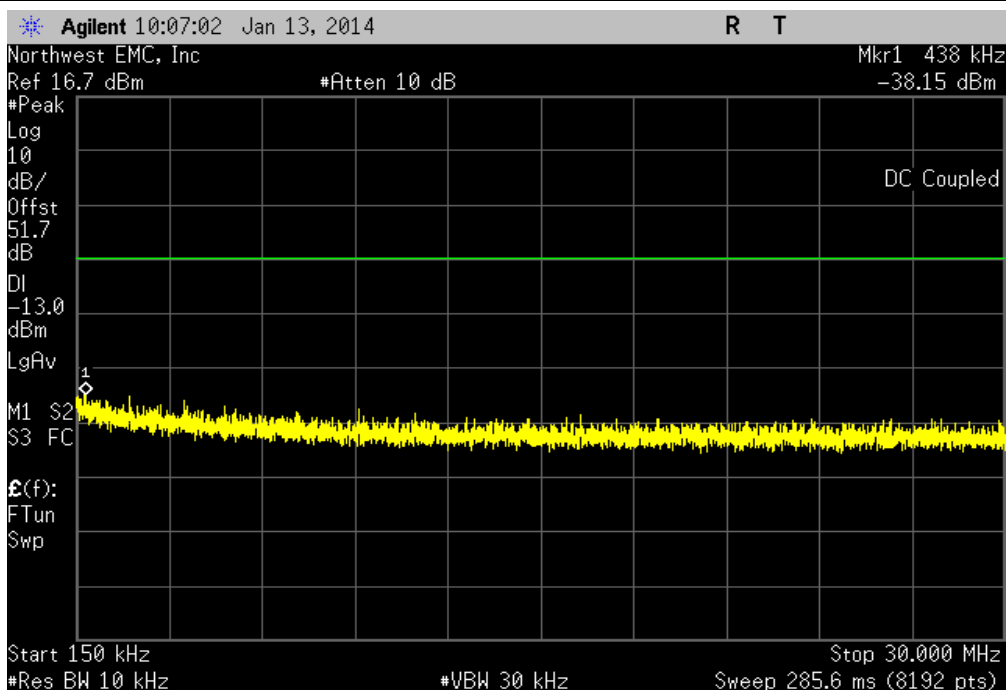
| Port B, LTE 10M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -17.07 dBm | -13 dBm | Pass   |  |



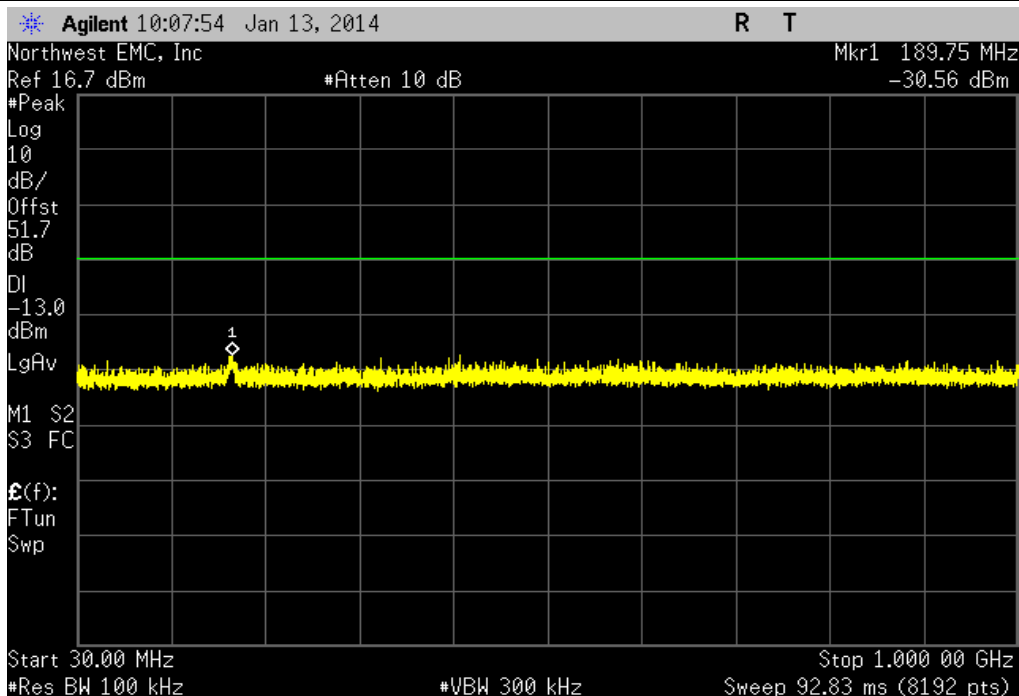
| Port B, LTE 10M, High Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -37.97 dBm | -13 dBm | Pass   |  |



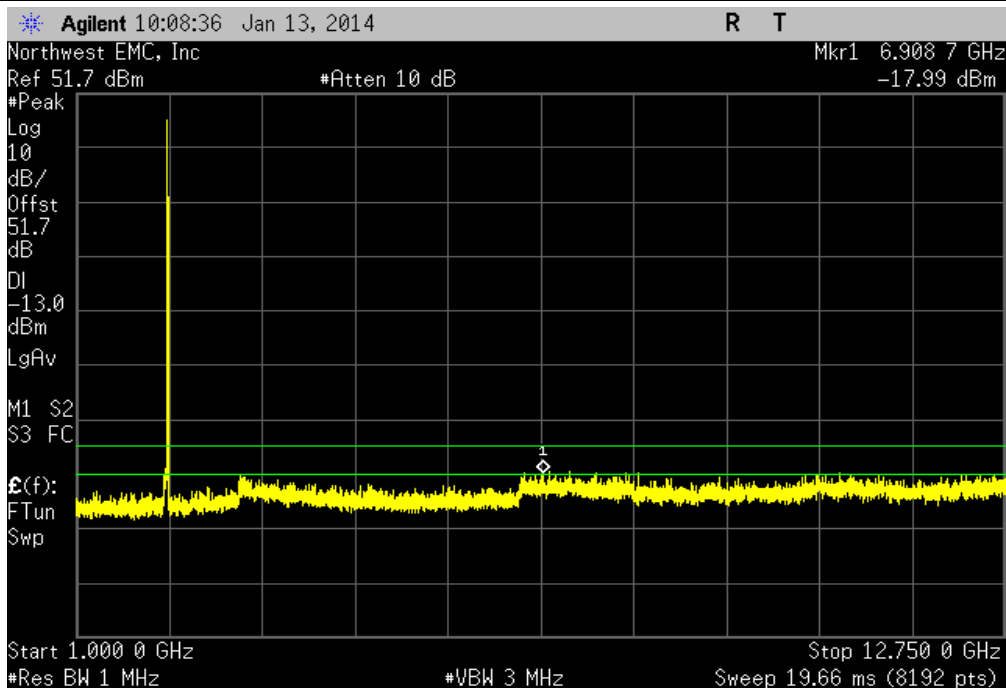
| Port B, LTE 10M, High Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -38.15 dBm | -13 dBm | Pass   |  |



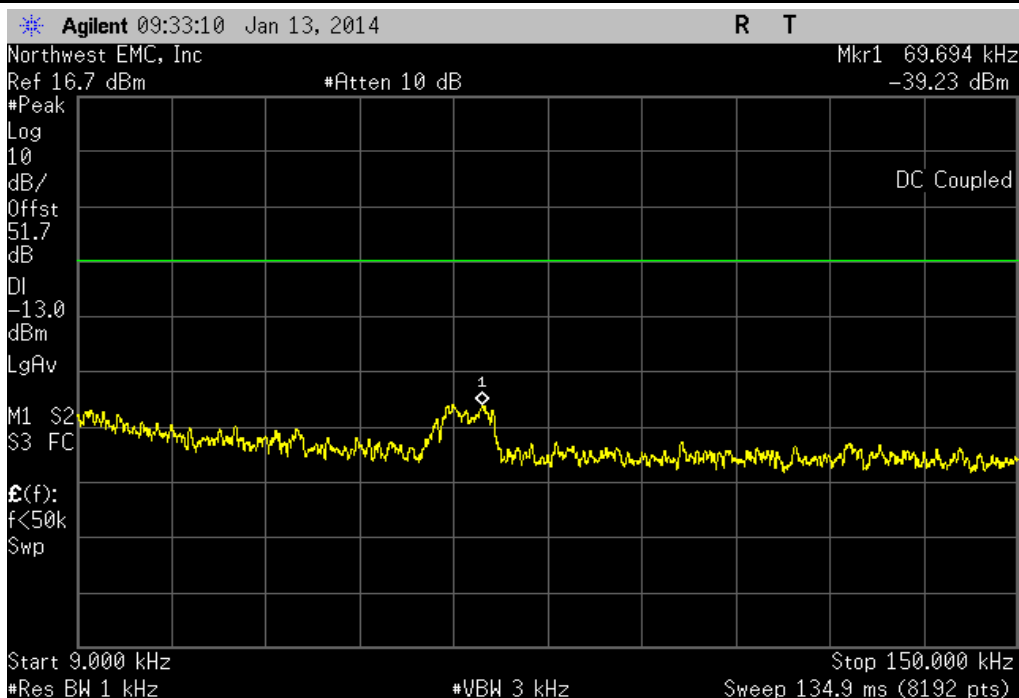
| Port B, LTE 10M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -30.56 dBm | -13 dBm | Pass   |  |



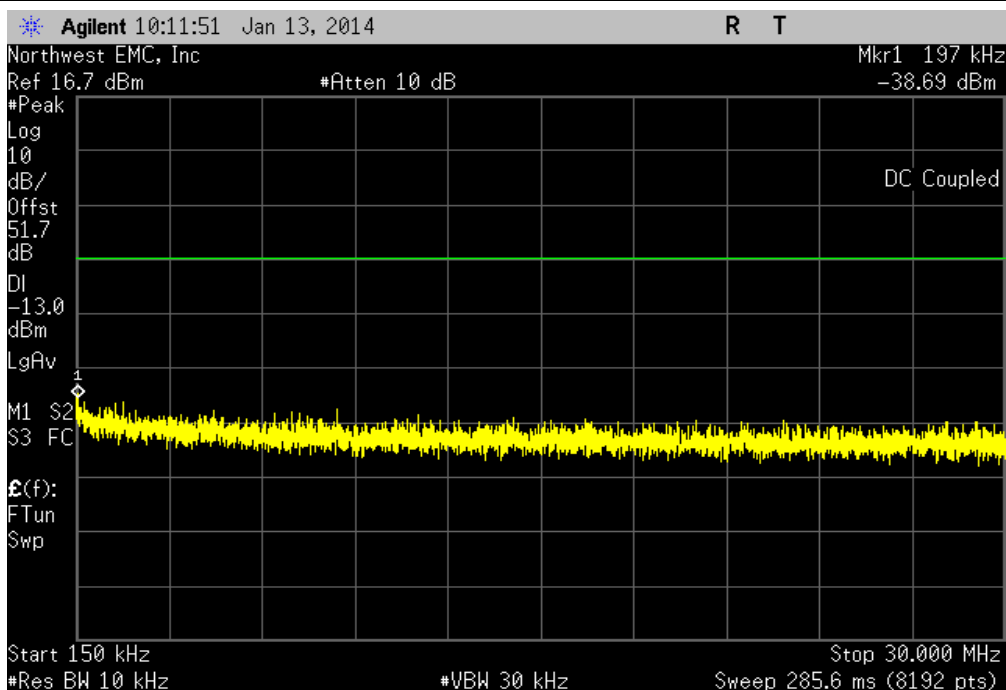
| Port B, LTE 10M, High Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -17.99 dBm | -13 dBm | Pass   |  |



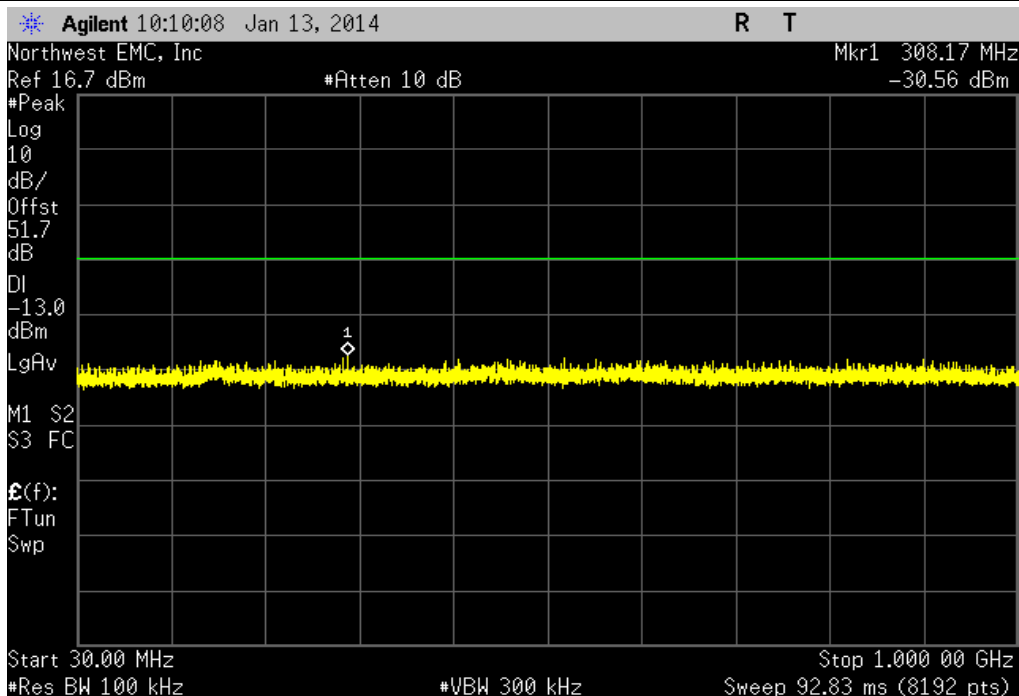
| Port B, LTE 10M, Multi Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -39.23 dBm | -13 dBm | Pass   |  |



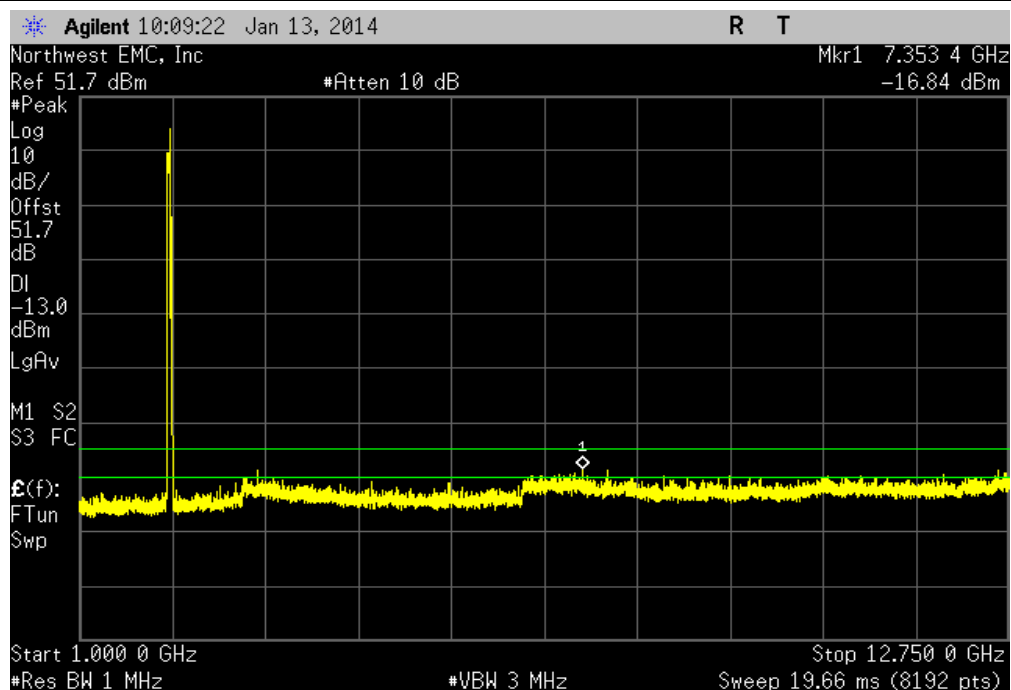
| Port B, LTE 10M, Multi Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -38.69 dBm | -13 dBm | Pass   |  |



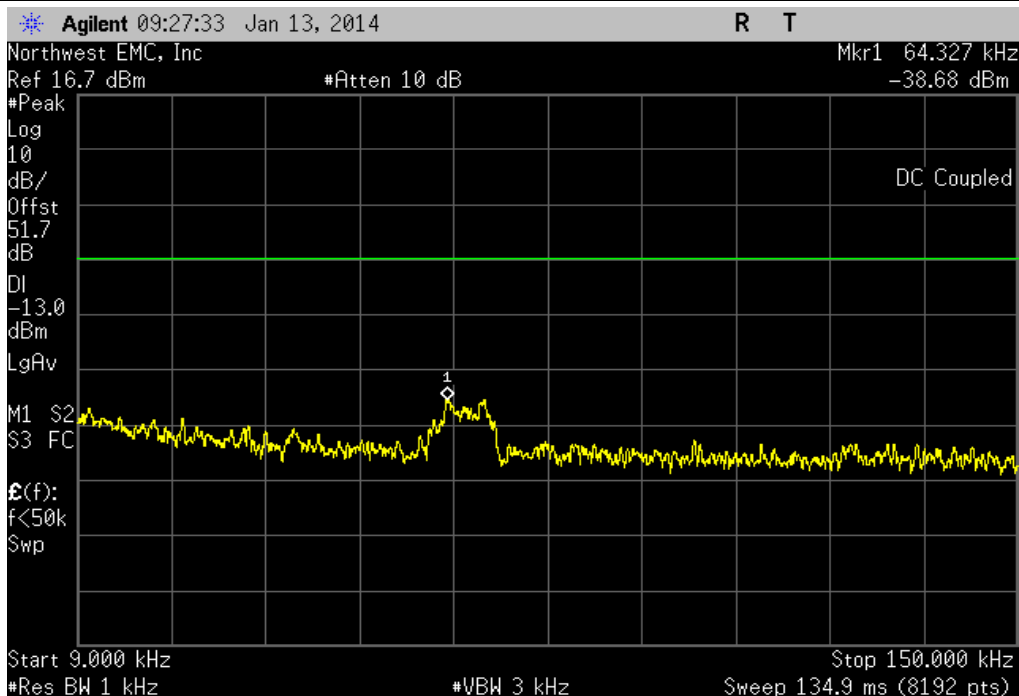
| Port B, LTE 10M, Multi Channel, 30 MHz - 1 GHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -30.56 dBm | -13 dBm | Pass   |



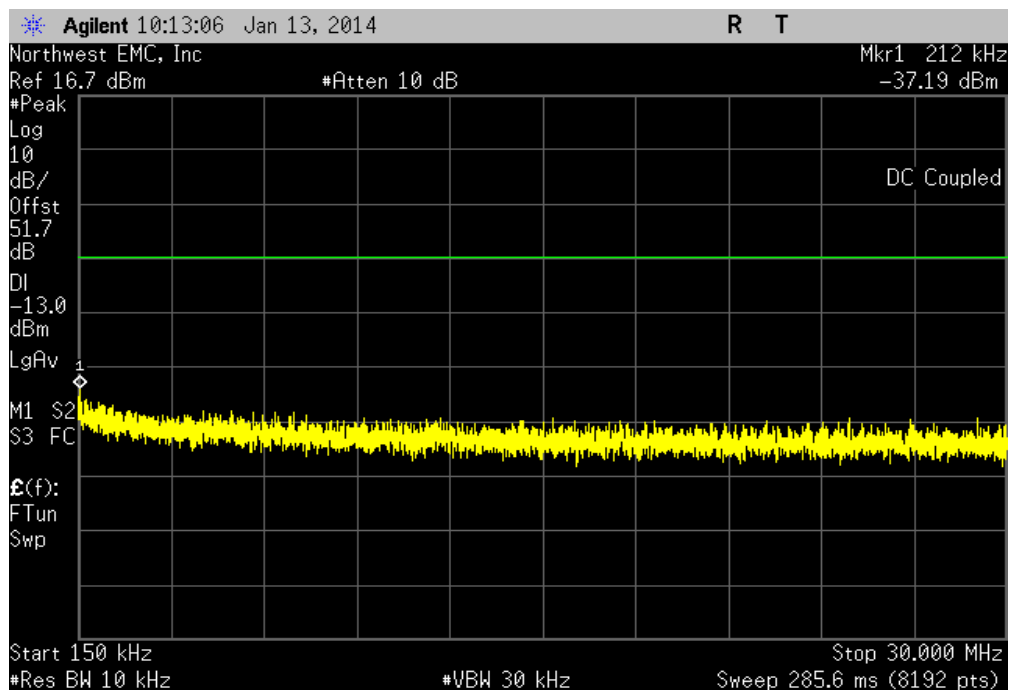
| Port B, LTE 10M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |  |            |         |        |
|---------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                   |  |  |  |  | Value      | Limit   | Result |
|                                                   |  |  |  |  | -16.84 dBm | -13 dBm | Pass   |



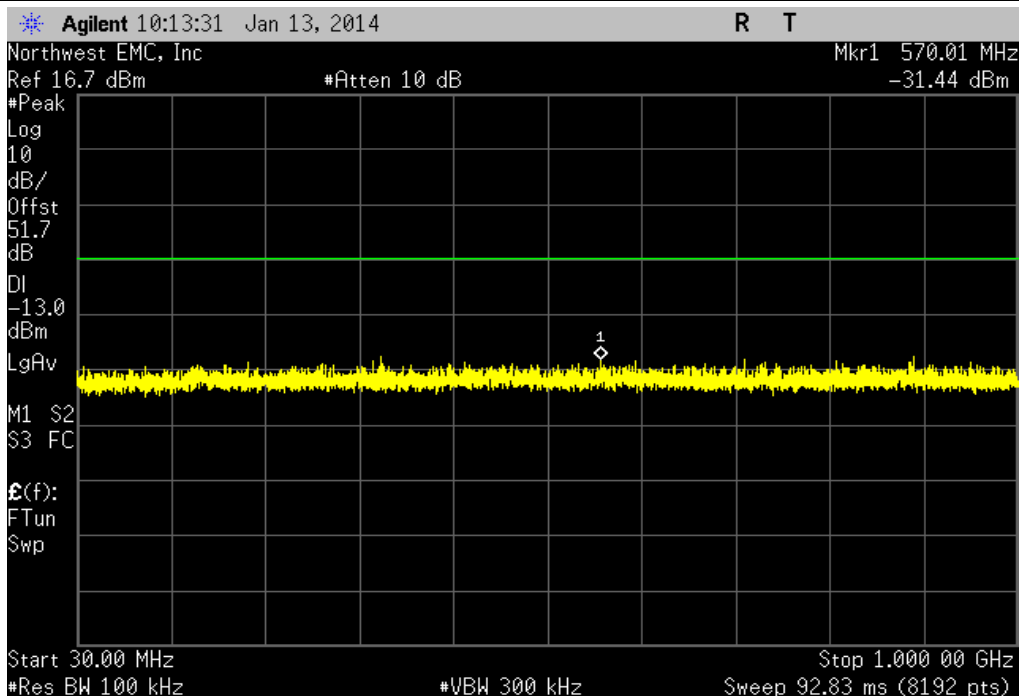
| Port B, LTE 15M, Low Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -38.68 dBm | -13 dBm | Pass   |  |



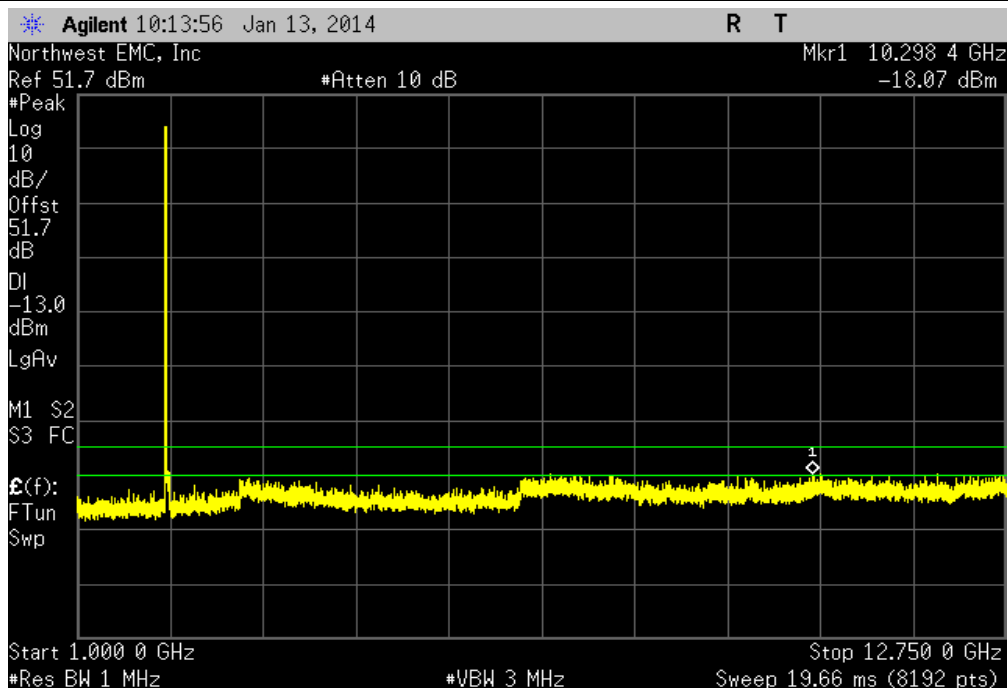
| Port B, LTE 15M, Low Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -37.19 dBm | -13 dBm | Pass   |  |



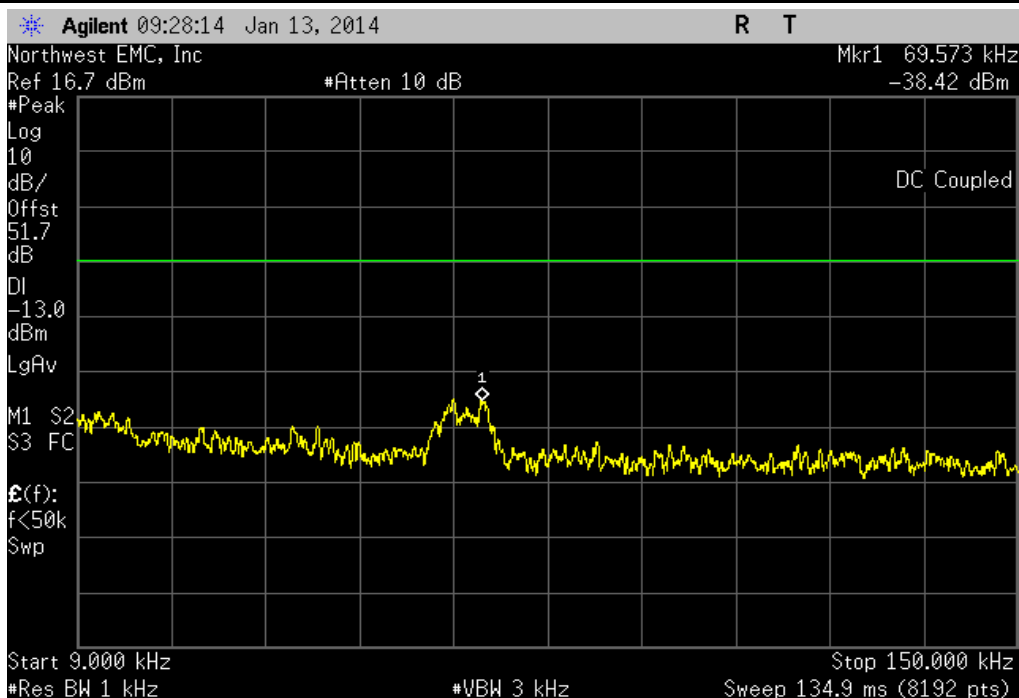
| Port B, LTE 15M, Low Channel, 30 MHz - 1 GHz |  |  |  |  |            |         |        |
|----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                              |  |  |  |  | Value      | Limit   | Result |
|                                              |  |  |  |  | -31.44 dBm | -13 dBm | Pass   |



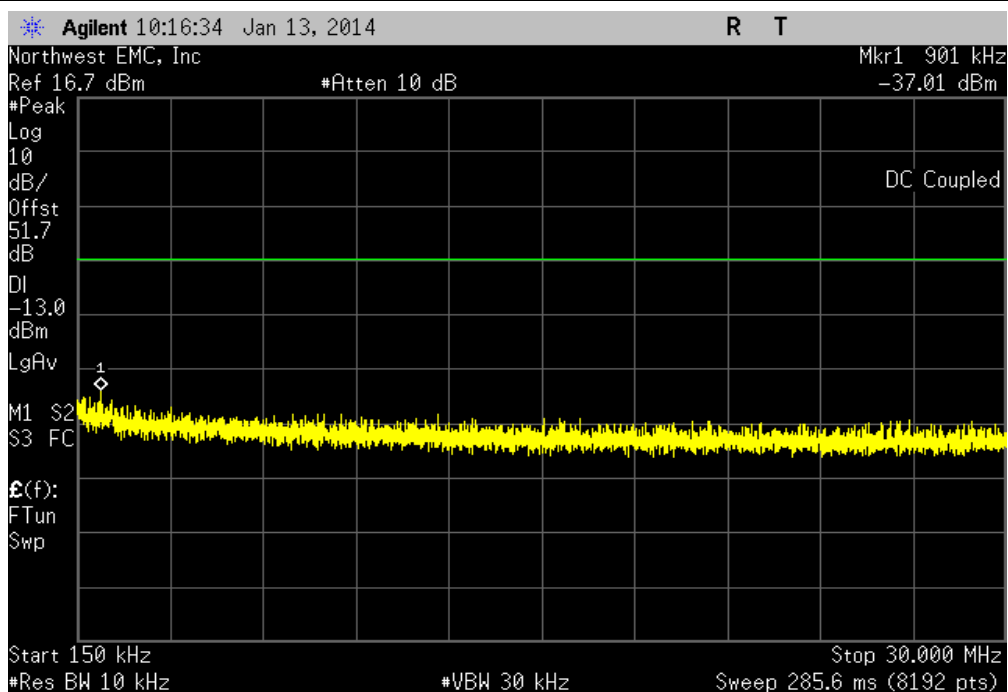
| Port B, LTE 15M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -18.07 dBm | -13 dBm | Pass   |



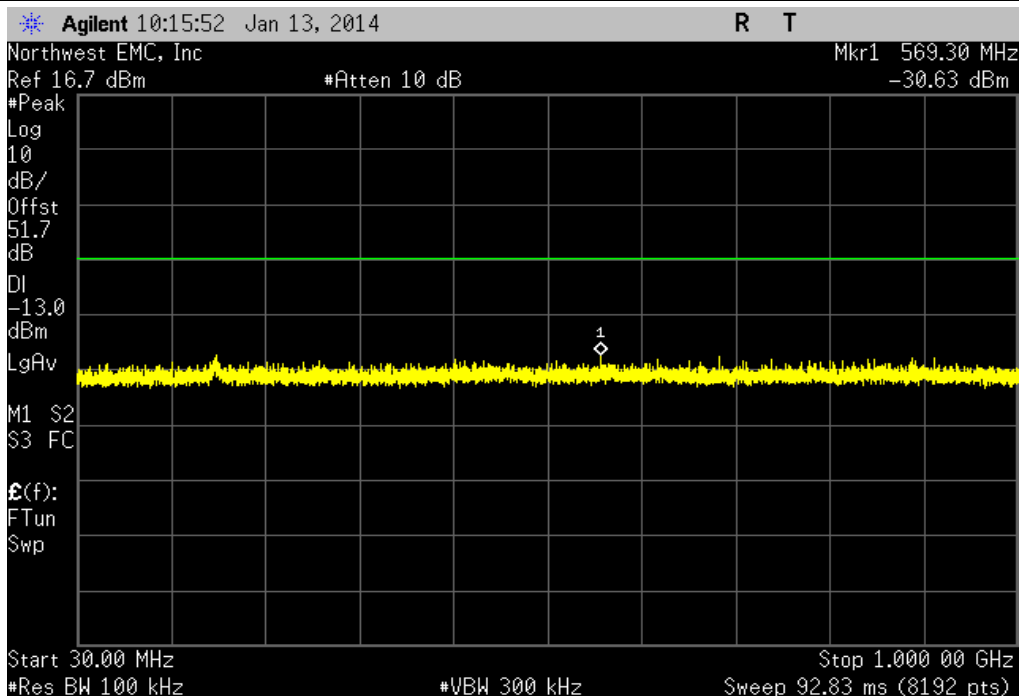
| Port B, LTE 15M, Mid Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -38.42 dBm | -13 dBm | Pass   |  |



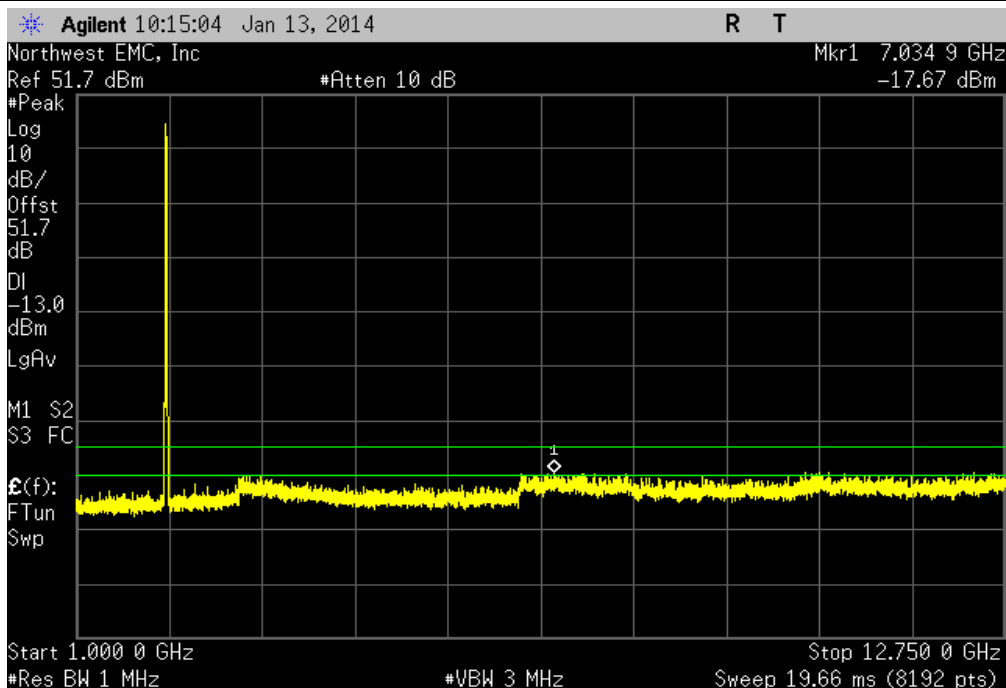
| Port B, LTE 15M, Mid Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -37.01 dBm | -13 dBm | Pass   |  |



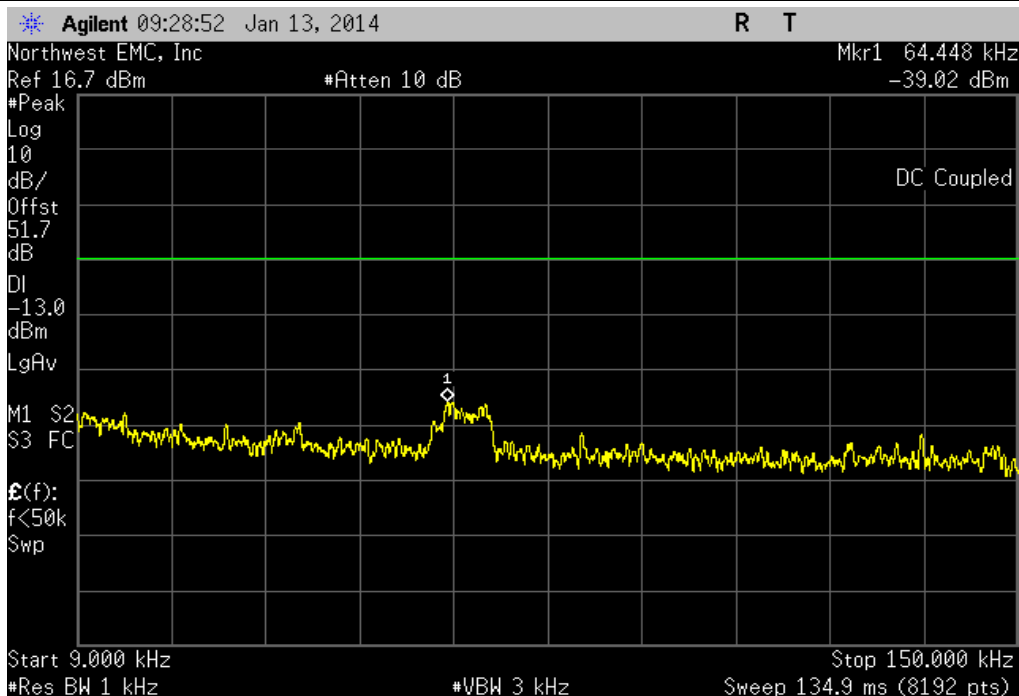
| Port B, LTE 15M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -30.63 dBm | -13 dBm | Pass   |  |



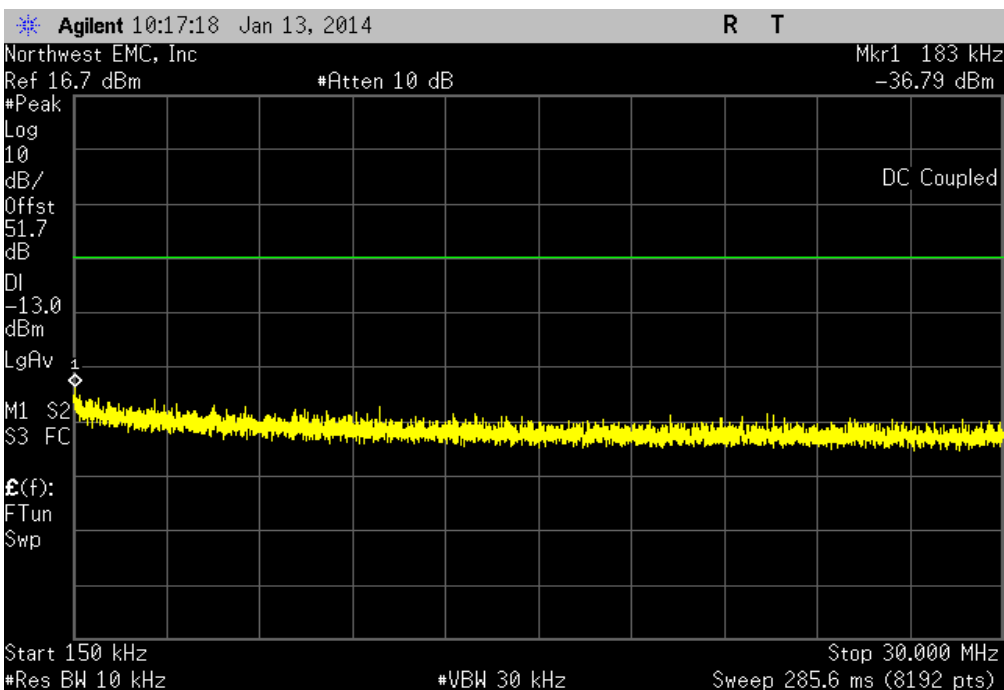
| Port B, LTE 15M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -17.67 dBm | -13 dBm | Pass   |  |



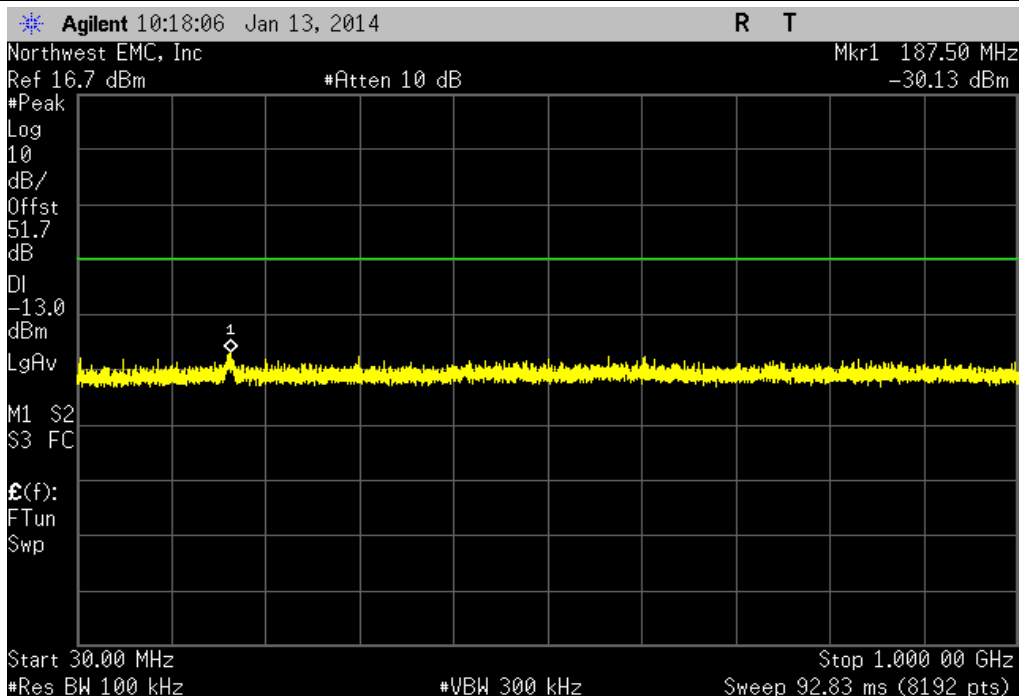
| Port B, LTE 15M, High Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -39.02 dBm | -13 dBm | Pass   |  |



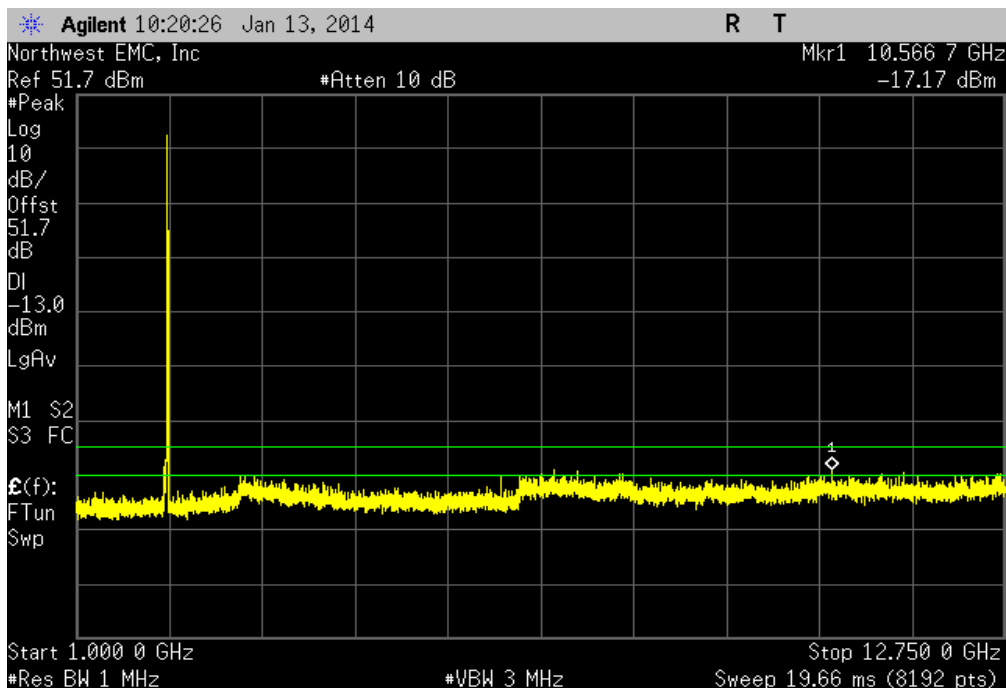
| Port B, LTE 15M, High Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -36.79 dBm | -13 dBm | Pass   |  |



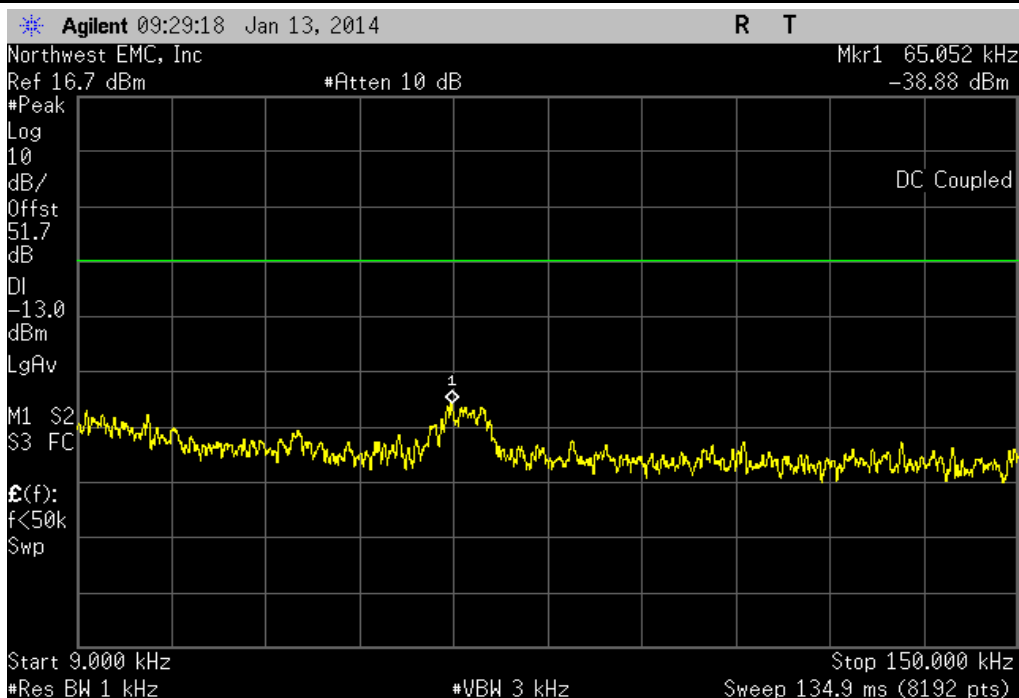
| Port B, LTE 15M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -30.13 dBm | -13 dBm | Pass   |  |



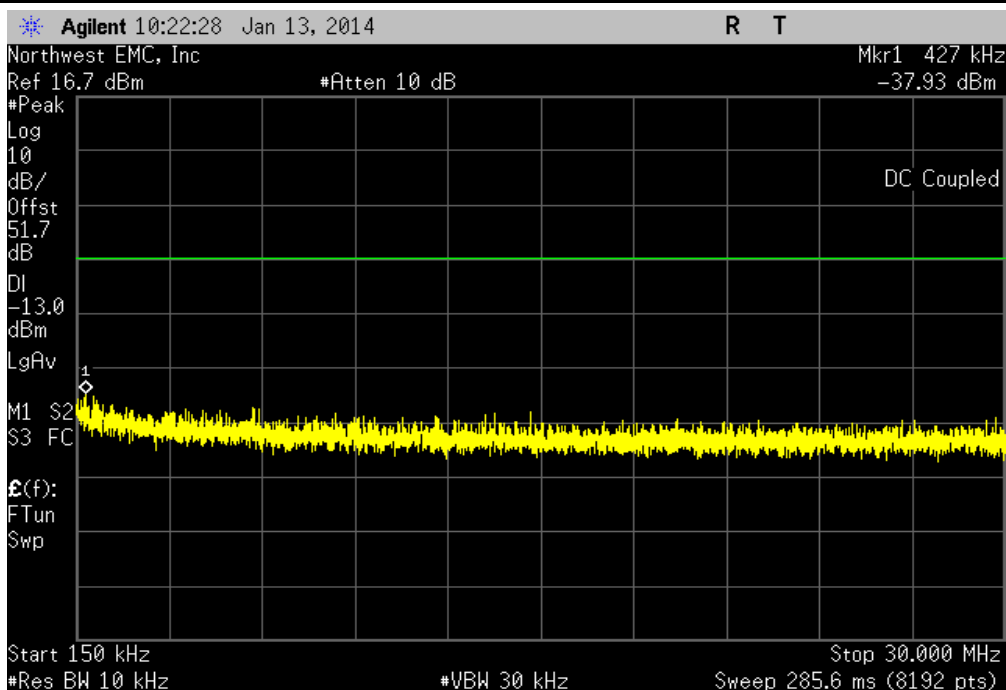
| Port B, LTE 15M, High Channel, 1 GHz - 12.75 GHz |  |  |  |           |         |        |  |
|--------------------------------------------------|--|--|--|-----------|---------|--------|--|
|                                                  |  |  |  | Value     | Limit   | Result |  |
|                                                  |  |  |  | -17.17dBm | -13 dBm | Pass   |  |



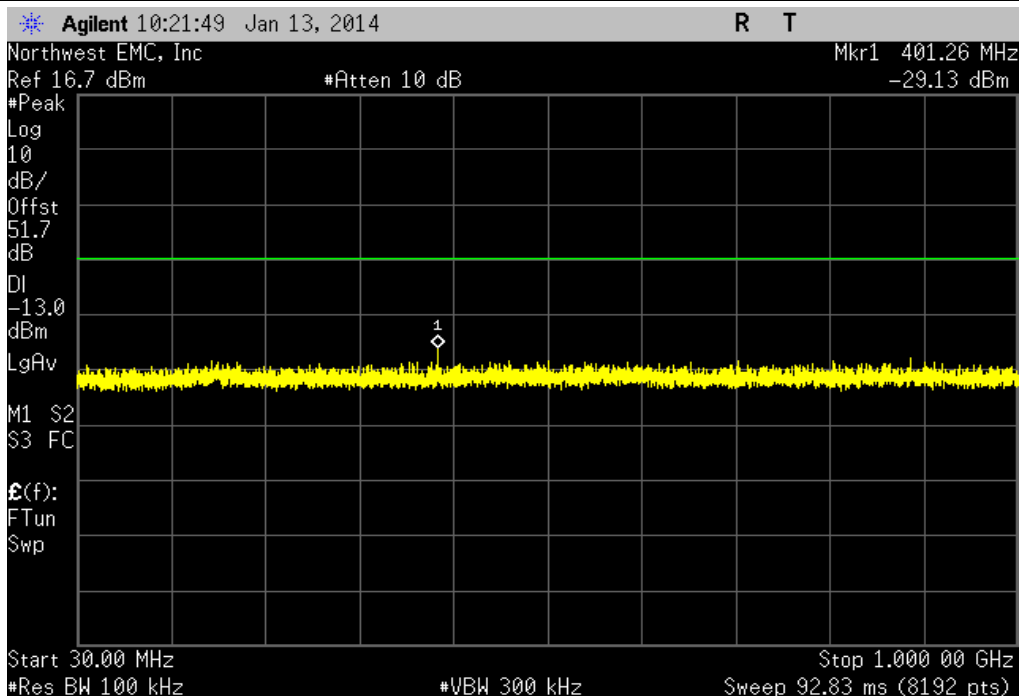
| Port B, LTE 15M, Multi Channel, 9 kHz - 150 kHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -38.88 dBm | -13 dBm | Pass   |  |



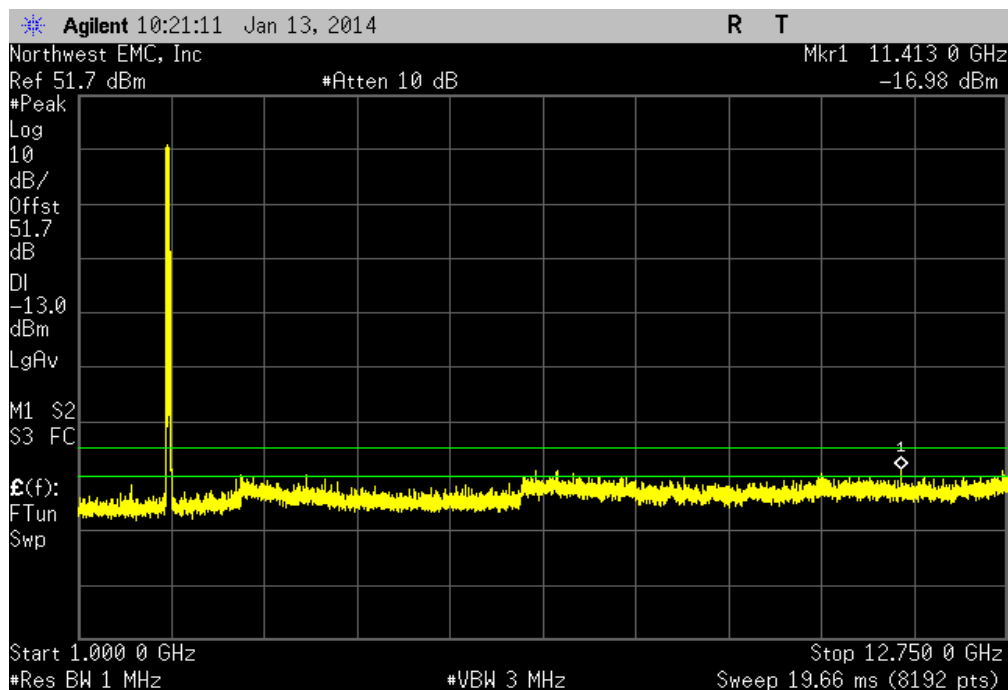
| Port B, LTE 15M, Multi Channel, 150 kHz - 30 MHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -37.93 dBm | -13 dBm | Pass   |  |



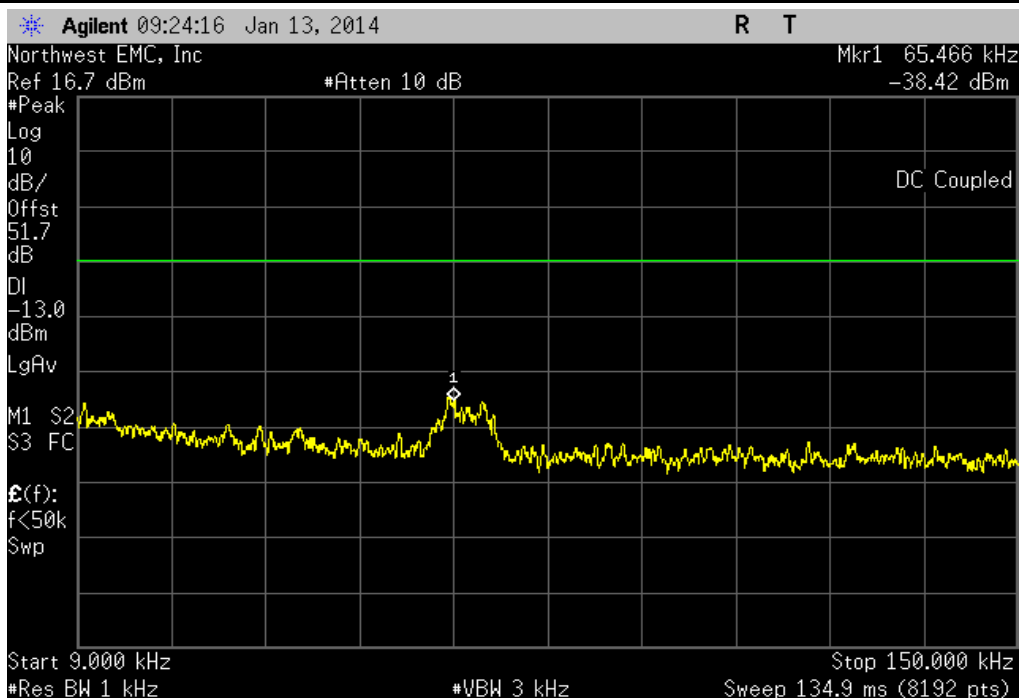
| Port B, LTE 15M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -29.13 dBm | -13 dBm | Pass   |  |



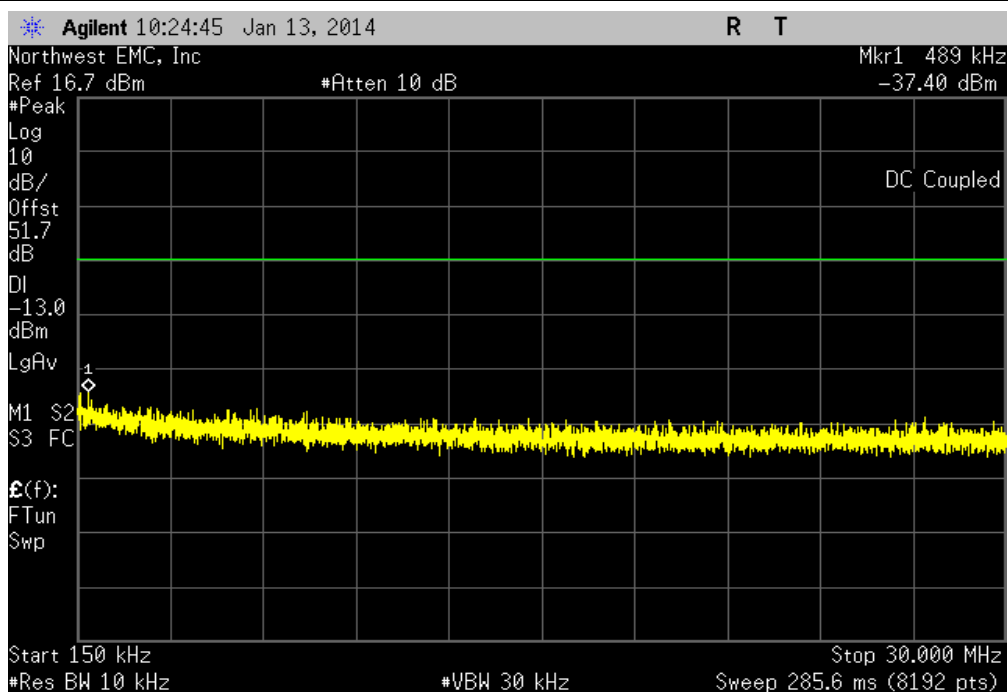
| Port B, LTE 15M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|---------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                   |  |  |  | Value      | Limit   | Result |  |
|                                                   |  |  |  | -16.98 dBm | -13 dBm | Pass   |  |



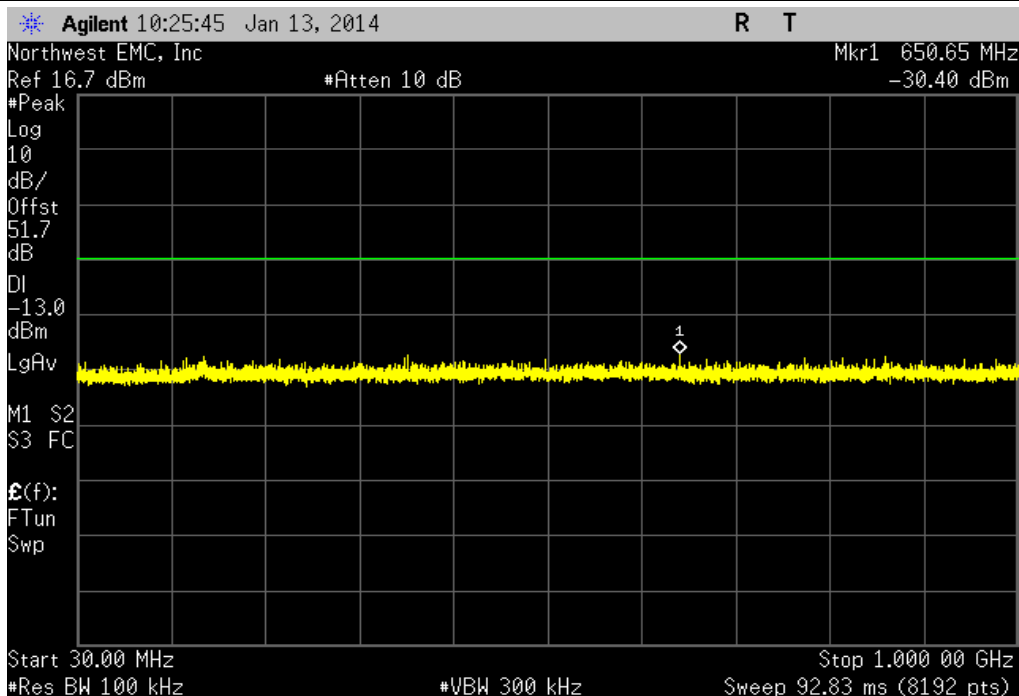
| Port B, LTE 20M, Low Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -38.42 dBm | -13 dBm | Pass   |



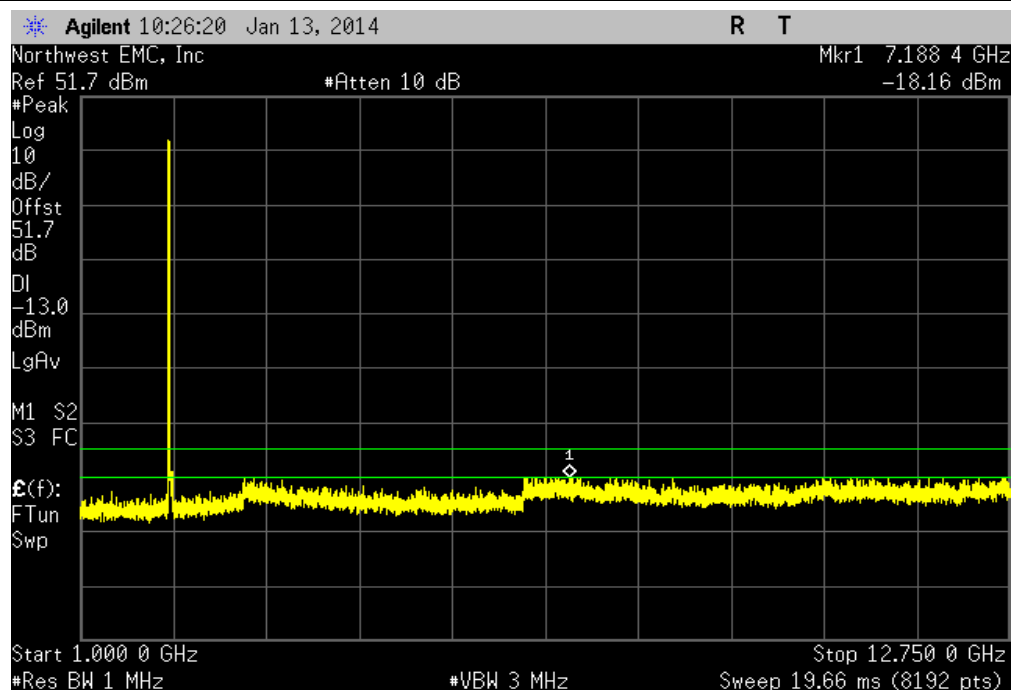
| Port B, LTE 20M, Low Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -37.40 dBm | -13 dBm | Pass   |



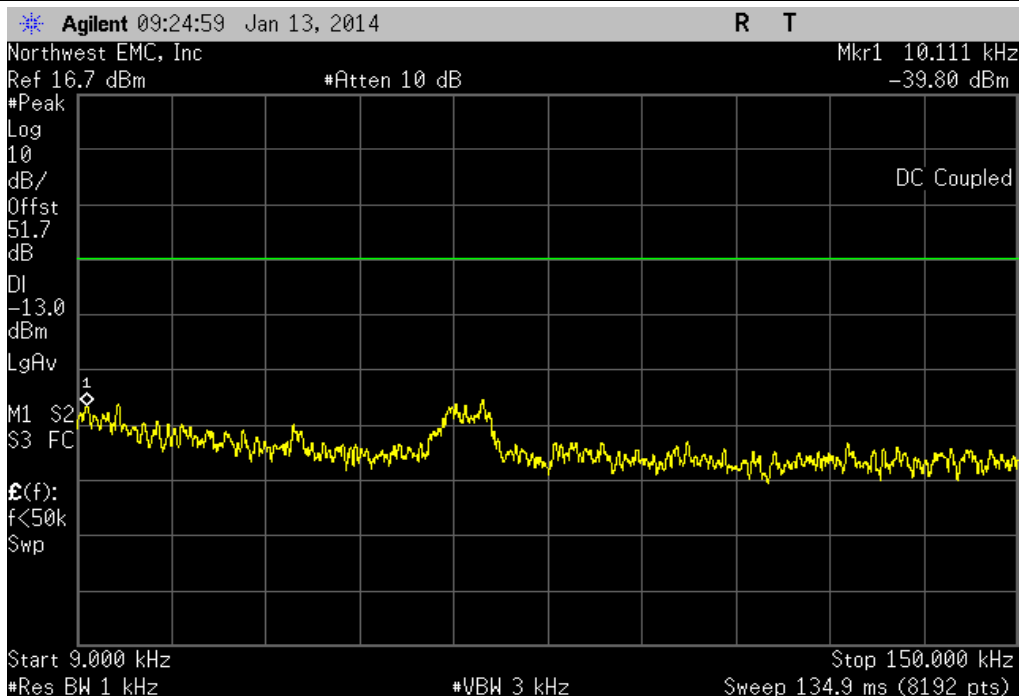
| Port B, LTE 20M, Low Channel, 30 MHz - 1 GHz |  |  |  |  |            |         |        |
|----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                              |  |  |  |  | Value      | Limit   | Result |
|                                              |  |  |  |  | -30.40 dBm | -13 dBm | Pass   |



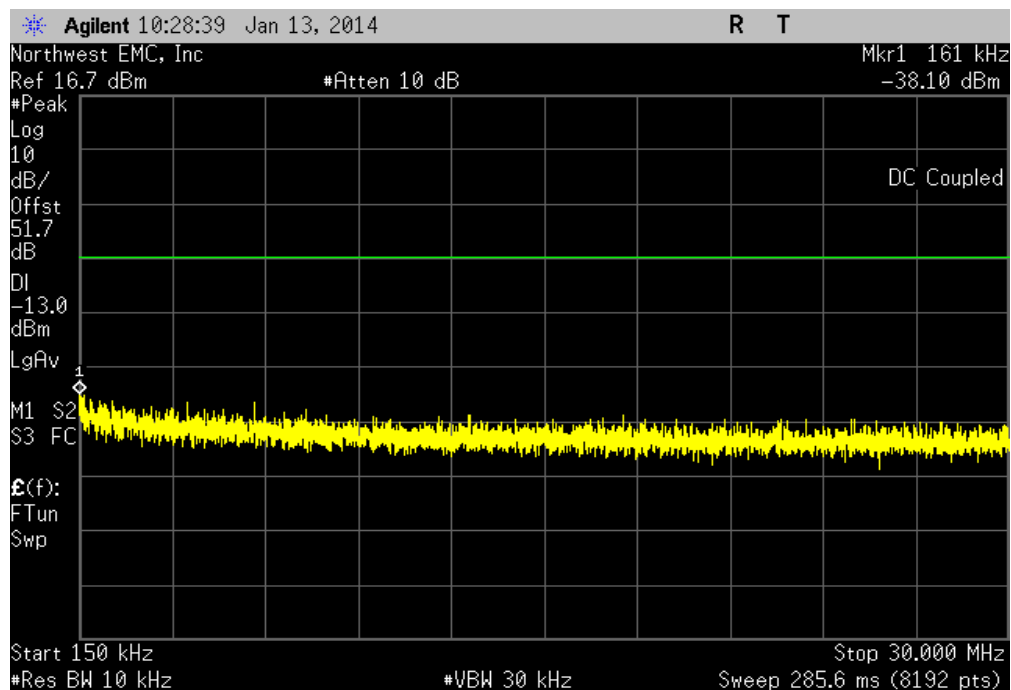
| Port B, LTE 20M, Low Channel, 1 GHz - 12.75 GHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -18.16 dBm | -13 dBm | Pass   |



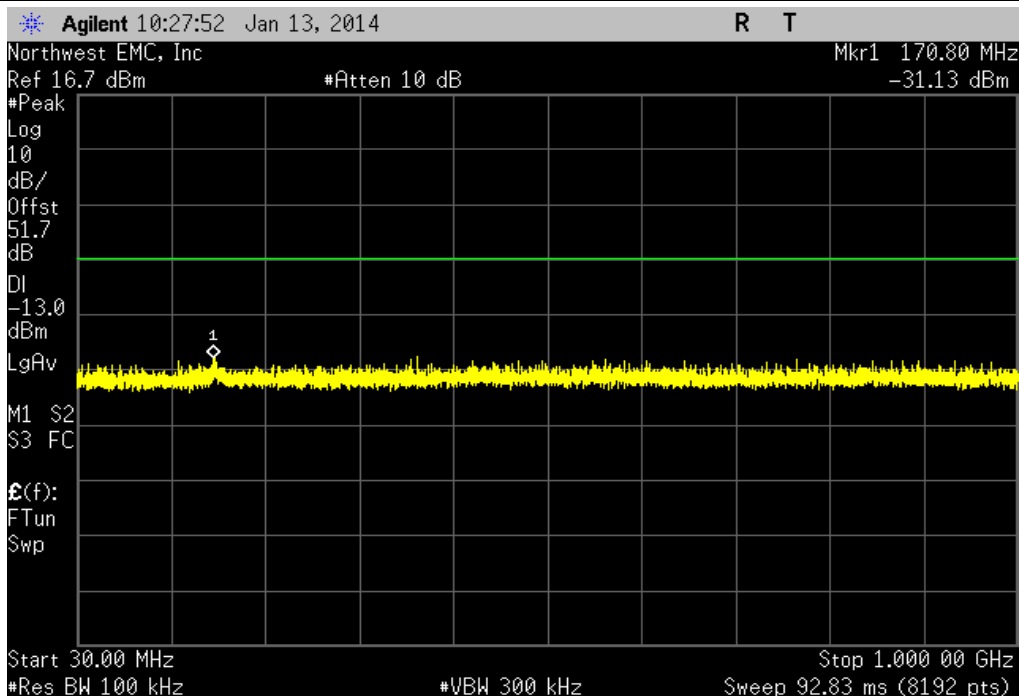
| Port B, LTE 20M, Mid Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-----------------------------------------------|--|--|--|--|------------|---------|--------|
|                                               |  |  |  |  | Value      | Limit   | Result |
|                                               |  |  |  |  | -39.80 dBm | -13 dBm | Pass   |



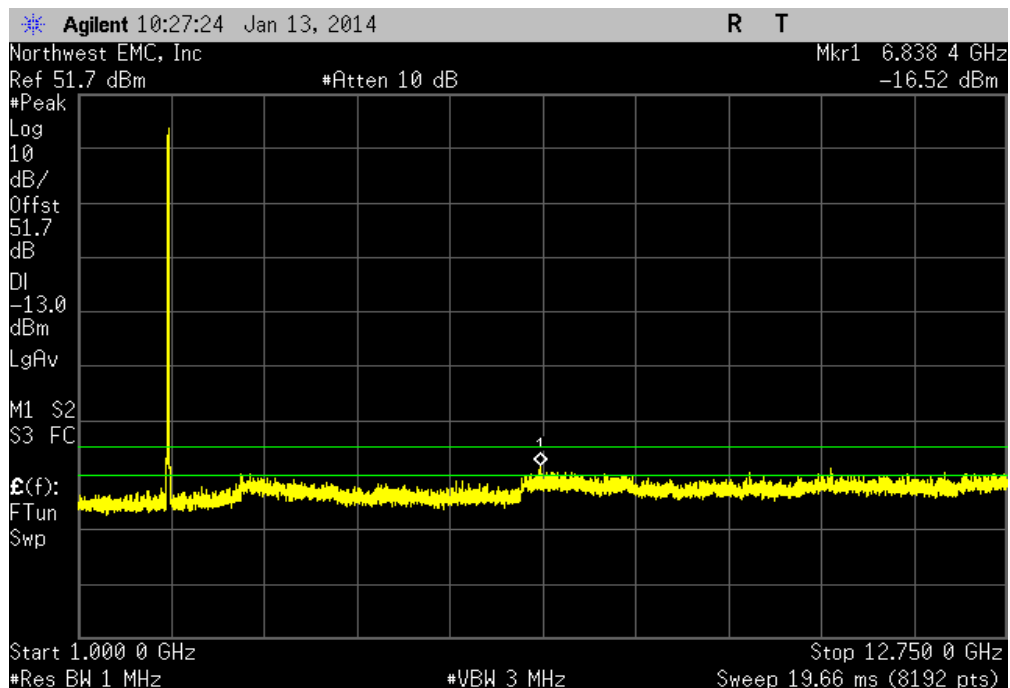
| Port B, LTE 20M, Mid Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -38.10 dBm | -13 dBm | Pass   |



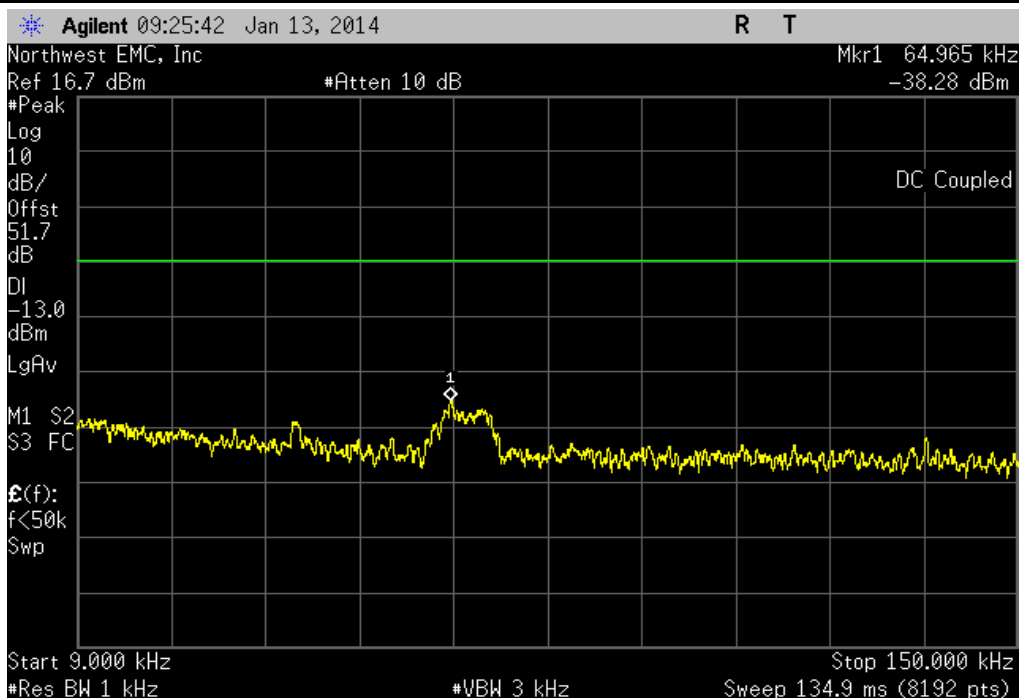
| Port B, LTE 20M, Mid Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                              |  |  |  | Value      | Limit   | Result |  |
|                                              |  |  |  | -31.13 dBm | -13 dBm | Pass   |  |



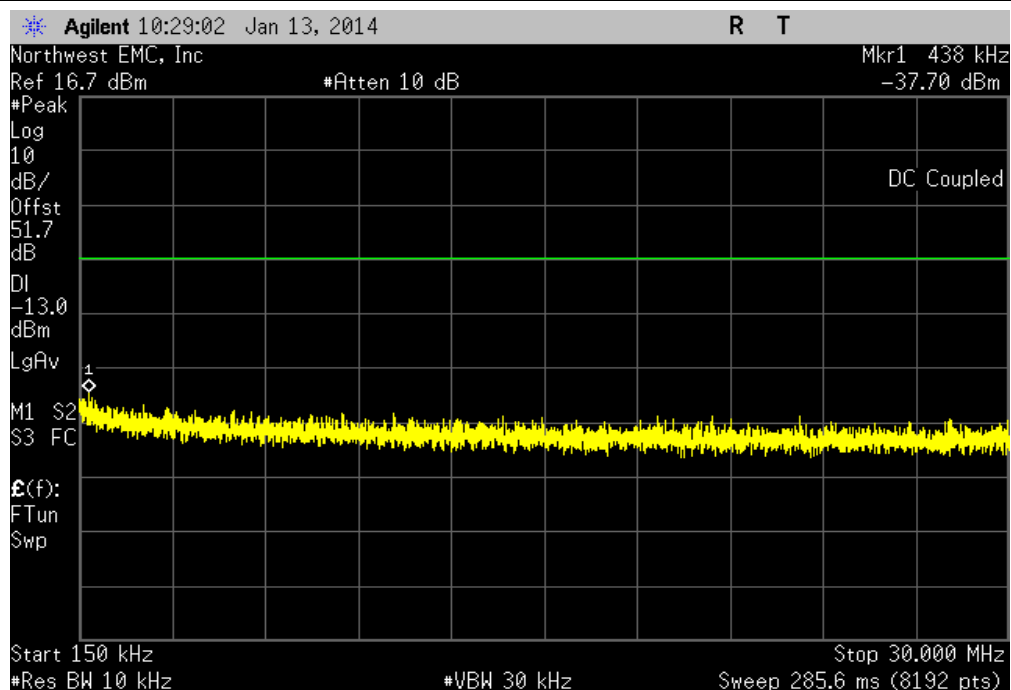
| Port B, LTE 20M, Mid Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|-------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                 |  |  |  | Value      | Limit   | Result |  |
|                                                 |  |  |  | -16.52 dBm | -13 dBm | Pass   |  |



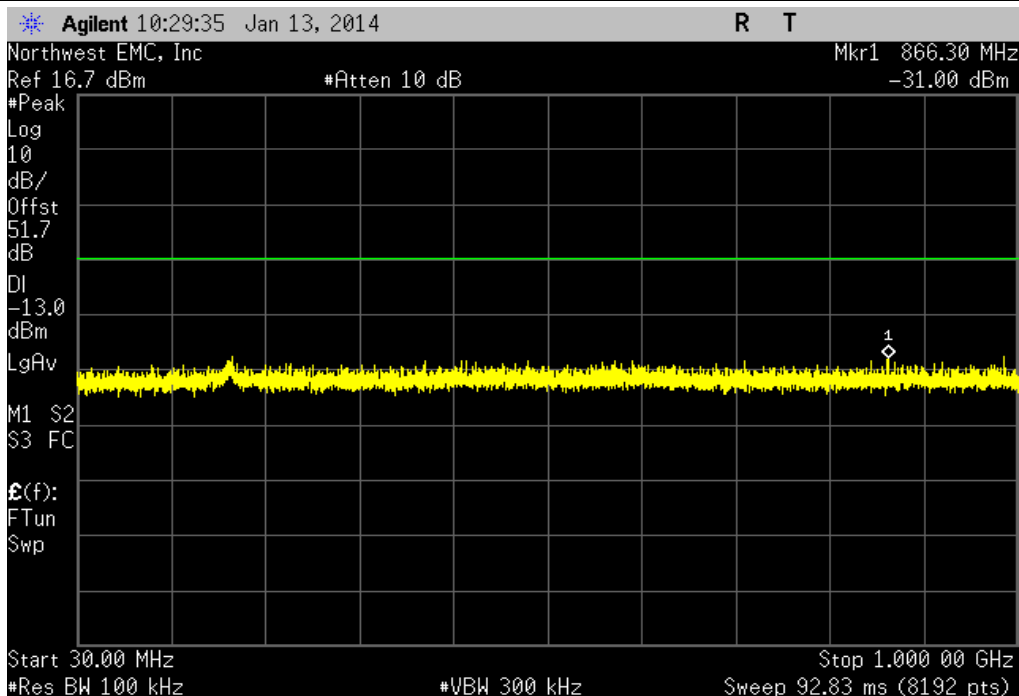
| Port B, LTE 20M, High Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                |  |  |  |  | Value      | Limit   | Result |
|                                                |  |  |  |  | -38.28 dBm | -13 dBm | Pass   |



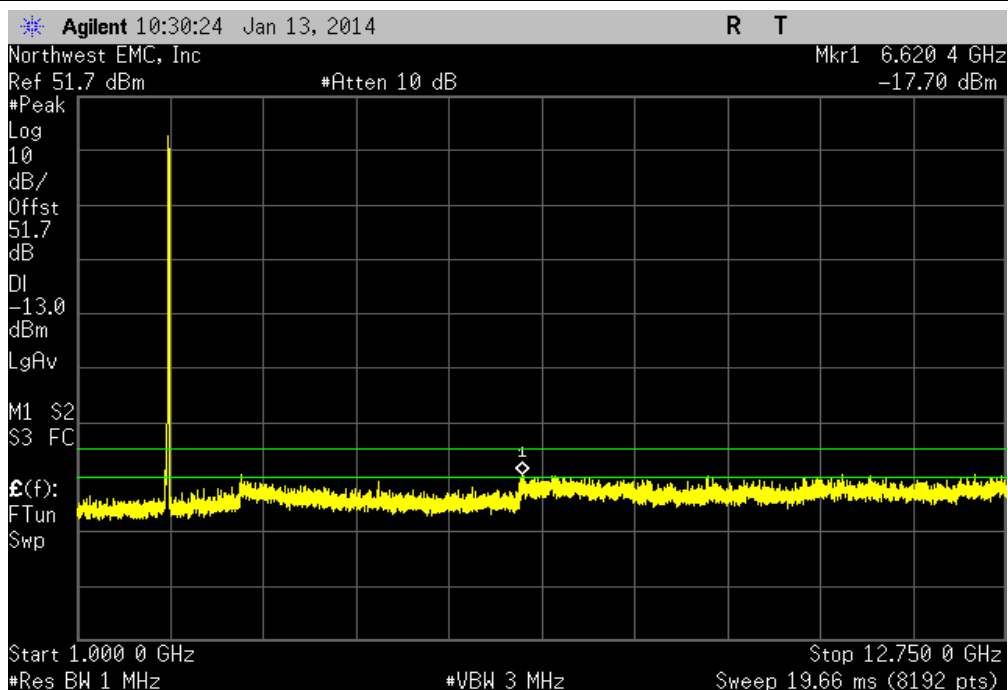
| Port B, LTE 20M, High Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -37.70 dBm | -13 dBm | Pass   |



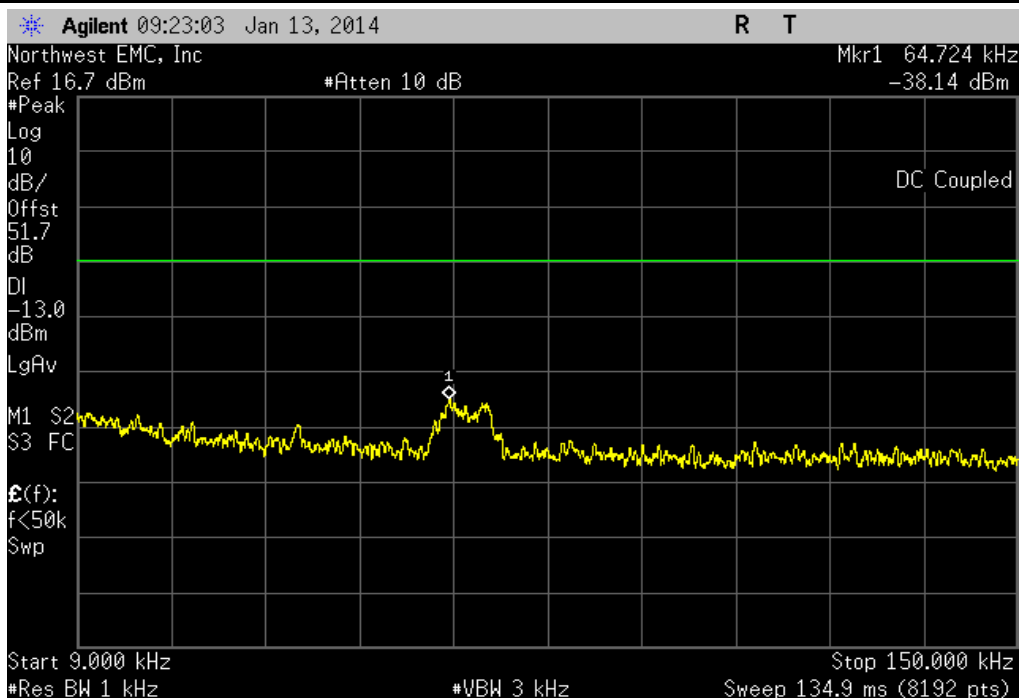
| Port B, LTE 20M, High Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|-----------------------------------------------|--|--|--|------------|---------|--------|--|
|                                               |  |  |  | Value      | Limit   | Result |  |
|                                               |  |  |  | -31.00 dBm | -13 dBm | Pass   |  |



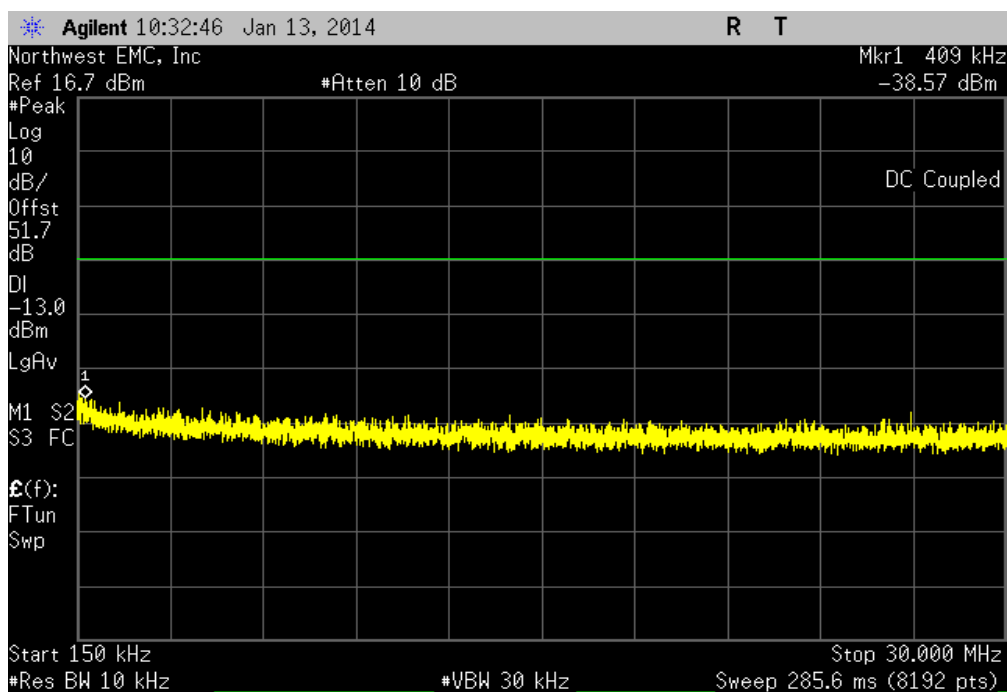
| Port B, LTE 20M, High Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|--------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                  |  |  |  | Value      | Limit   | Result |  |
|                                                  |  |  |  | -17.70 dBm | -13 dBm | Pass   |  |



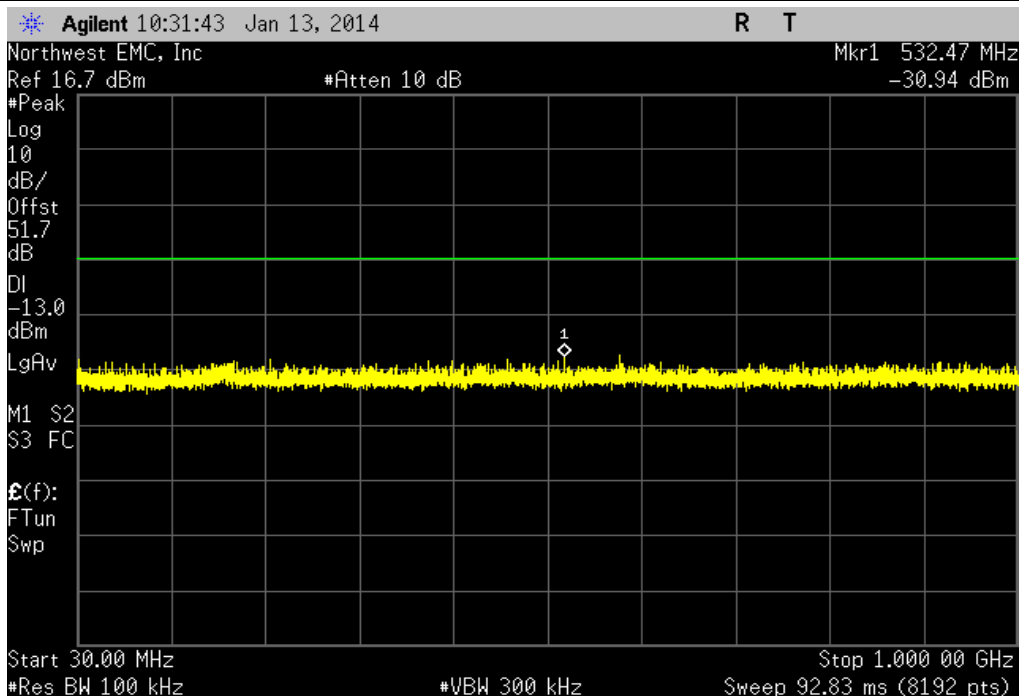
| Port B, LTE 20M, Multi Channel, 9 kHz - 150 kHz |  |  |  |  |            |         |        |
|-------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                 |  |  |  |  | Value      | Limit   | Result |
|                                                 |  |  |  |  | -38.14 dBm | -13 dBm | Pass   |



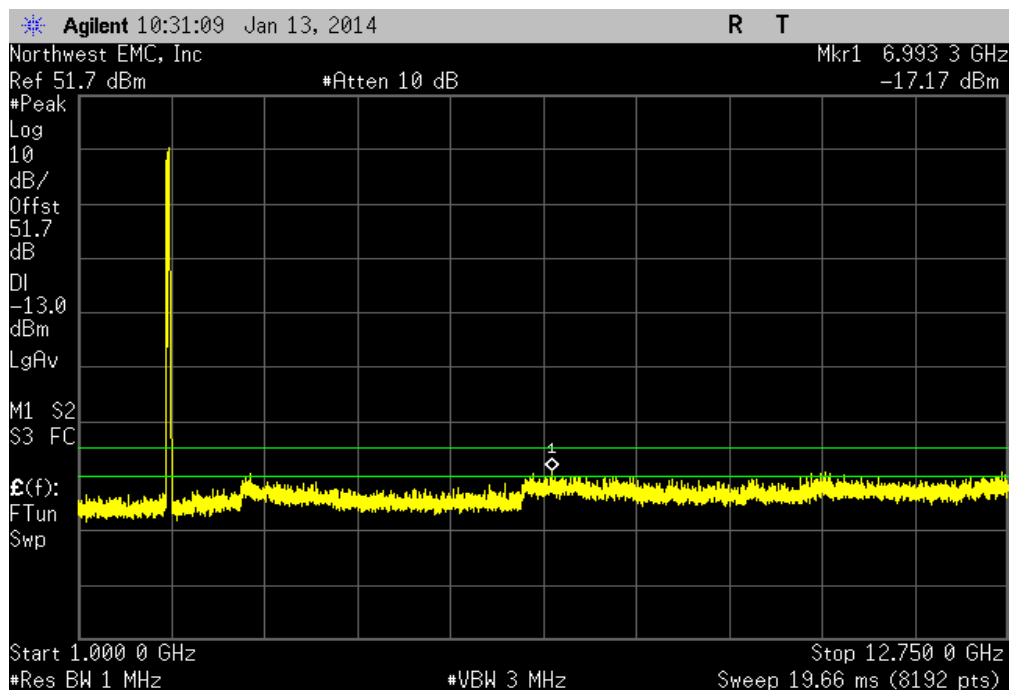
| Port B, LTE 20M, Multi Channel, 150 kHz - 30 MHz |  |  |  |  |            |         |        |
|--------------------------------------------------|--|--|--|--|------------|---------|--------|
|                                                  |  |  |  |  | Value      | Limit   | Result |
|                                                  |  |  |  |  | -38.57 dBm | -13 dBm | Pass   |



| Port B, LTE 20M, Multi Channel, 30 MHz - 1 GHz |  |  |  |            |         |        |  |
|------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                |  |  |  | Value      | Limit   | Result |  |
|                                                |  |  |  | -30.94 dBm | -13 dBm | Pass   |  |



| Port B, LTE 20M, Multi Channel, 1 GHz - 12.75 GHz |  |  |  |            |         |        |  |
|---------------------------------------------------|--|--|--|------------|---------|--------|--|
|                                                   |  |  |  | Value      | Limit   | Result |  |
|                                                   |  |  |  | -17.17 dBm | -13 dBm | 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

Power: 60Wx2. See comments on data for channel and mode.

## POWER SETTINGS INVESTIGATED

48 VDC

## CONFIGURATIONS INVESTIGATED

KMWC0048 - 1

## FREQUENCY RANGE INVESTIGATED

|                 |        |                |        |
|-----------------|--------|----------------|--------|
| Start Frequency | 30 MHz | Stop Frequency | 26 GHz |
|-----------------|--------|----------------|--------|

## 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 |
|--------------------|-----------------|------------------------|-----|------------|----------|
| Antenna, Horn      | ETS             | 3117                   | AHQ | 9/12/2012  | 36 mo    |
| Antenna, Dipole    | EMCO            | 3121C-DB1,DB2,DB3,DB4  | ADC | 5/17/2013  | 36 mo    |
| Signal Generator   | Agilent         | E8257D                 | TGU | 2/1/2012   | 36 mo    |
| Attenuator         | Coaxicom        | 66702 3910AF-20        | TKH | 6/6/2013   | 12 mo    |
| HP Filter          | Micro-Tronics   | HPM50111               | HFM | 4/2/2012   | 36 mo    |
| HP Filter          | Micro-Tronics   | HPM50108               | HFW | 4/2/2012   | 36 mo    |
| Pre-Amplifier      | Miteq           | JSW45-26004000-40-5P   | AVQ | 1/10/2014  | 12 mo    |
| Antenna, Horn      | ETS             | 3160-10                | AIX | NCR        | 0 mo     |
| Cable              | ESM Cable Corp. | KMKM-72                | OC1 | 1/9/2014   | 12 mo    |
| Pre-Amplifier      | Miteq           | AMF-6F-18002650-25-10P | AOI | 1/10/2014  | 12 mo    |
| Pre-Amplifier      | Miteq           | AMF-6F-12001800-30-10P | AOF | 10/24/2013 | 12 mo    |
| Antenna, Horn      | ETS             | 3160-08                | AHT | NCR        | 0 mo     |
| Pre-Amplifier      | Miteq           | AMF-6F-08001200-30-10P | AOE | 10/24/2013 | 12 mo    |
| Antenna, Horn      | ETS             | 3160-07                | AHR | NCR        | 0 mo     |
| OC 10 Cables       | N/A             | 8-18GHz RE Cables      | OCO | 10/24/2013 | 12 mo    |
| Pre-Amplifier      | Miteq           | AMF-4D-010120-30-10P-1 | AOP | 6/6/2013   | 12 mo    |
| Antenna, Horn      | EMCO            | 3115                   | AHB | 3/8/2011   | 36 mo    |
| OC10 Cables        | N/A             | 1-8GHz RE Cables       | OCJ | 10/24/2013 | 12 mo    |
| Antenna, Biconilog | EMCO            | 3142                   | AXB | 6/2/2013   | 36 mo    |
| OC10 Cables        | N/A             | 10kHz-1GHz RE Cables   | OCH | 6/6/2013   | 12 mo    |
| Pre-Amplifier      | Miteq           | AM-1064-9079           | AOO | 6/6/2013   | 12 mo    |
| Spectrum Analyzer  | Agilent         | E4440A                 | AFA | 6/15/2012  | 24 mo    |

## MEASUREMENT BANDWIDTHS

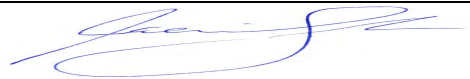
| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 - 0.15           | 1.0             | 0.2                   | 0.2                |
| 0.15 - 30.0           | 10.0            | 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 antenna to be used with the EUT was tested for final measurements. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

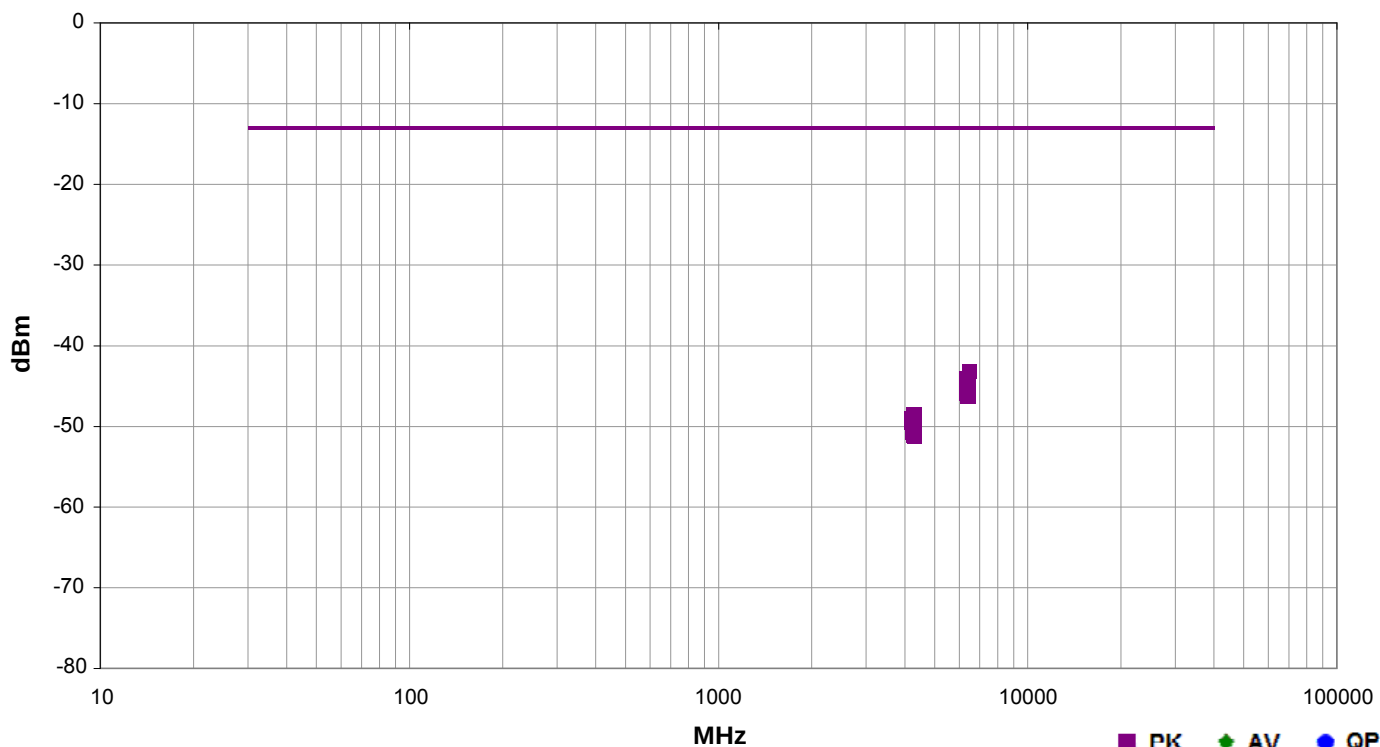
For licensed transmitters, the FCC references TIA/EIA-603 as the measurement procedure standard. TIA/EIA-603 Section 2.2.12 describes a method for measuring radiated spurious emissions that utilizes an antenna substitution method:

At an approved test site, the transmitter is placed on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of spurious emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a  $\frac{1}{2}$  wave dipole that is successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the antenna and its gain; the power (dBm) into an ideal  $\frac{1}{2}$  wave dipole antenna is determined for each radiated spurious emission.

|                 |            |                                                          |           |                                                                                     |
|-----------------|------------|----------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Work Order:     | KMWC0048   | Date:                                                    | 01/14/14  |  |
| Project:        | None       | Temperature:                                             | 24.5 °C   |                                                                                     |
| Job Site:       | OC07       | Humidity:                                                | 42.5% RH  |                                                                                     |
| Serial Number:  | U365000113 | Barometric Pres.:                                        | 1012 mbar |                                                                                     |
| EUT:            |            | AWS RRH                                                  |           |                                                                                     |
| Configuration:  |            | 1                                                        |           |                                                                                     |
| Customer:       |            | KMW Communications                                       |           |                                                                                     |
| Attendees:      |            | Edward Lee                                               |           |                                                                                     |
| EUT Power:      |            | 48 VDC                                                   |           |                                                                                     |
| Operating Mode: |            | Power: 60Wx2. See comments on data for channel and mode. |           |                                                                                     |
| Deviations:     |            | None                                                     |           |                                                                                     |
| Comments:       |            | None                                                     |           |                                                                                     |

| Test Specifications | Test Method             |
|---------------------|-------------------------|
| FCC 27L:2014        | ANSI/TIA/EIA-603-C-2004 |

| Run # | 23 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|----|-------------------|---|-------------------|------|---------|------|
|-------|----|-------------------|---|-------------------|------|---------|------|



|  | Freq (MHz) | Antenna Height (meters) | Azimuth (degrees) | Polarity/Transducer Type | Detector | EIRP (Watts) | EIRP (dBm) | Spec. Limit (dBm) | Compared to Spec. (dB) | Comments                 |
|--|------------|-------------------------|-------------------|--------------------------|----------|--------------|------------|-------------------|------------------------|--------------------------|
|  | 6458.565   | 1.0                     | 192.0             | Horz                     | PK       | 4.81E-08     | -43.2      | -13.0             | -30.2                  | LTE 5 MHz, High Channel  |
|  | 6344.145   | 1.0                     | 353.0             | Horz                     | PK       | 3.92E-08     | -44.1      | -13.0             | -31.1                  | LTE 10 MHz, Low Channel  |
|  | 6451.395   | 3.7                     | 252.0             | Vert                     | PK       | 3.83E-08     | -44.2      | -13.0             | -31.2                  | LTE 10 MHz, High Channel |
|  | 6396.205   | 3.0                     | 208.0             | Vert                     | PK       | 3.77E-08     | -44.2      | -13.0             | -31.2                  | LTE 5 MHz, Mid Channel   |
|  | 6336.525   | 1.0                     | 46.0              | Horz                     | PK       | 3.76E-08     | -44.3      | -13.0             | -31.3                  | LTE 5 MHz, Low Channel   |
|  | 6345.530   | 2.3                     | 182.0             | Vert                     | PK       | 3.74E-08     | -44.3      | -13.0             | -31.3                  | LTE 10 MHz, Low Channel  |
|  | 6398.195   | 1.0                     | 131.0             | Vert                     | PK       | 3.68E-08     | -44.3      | -13.0             | -31.3                  | LTE 10 MHz, Mid Channel  |

| Freq<br>(MHz) | Antenna Height<br>(meters) | Azimuth<br>(degrees) | Polarity/<br>Transducer<br>Type | Detector | EIRP<br>(Watts) | EIRP<br>(dBm) | Spec. Limit<br>(dBm) | Compared to<br>Spec. (dB) | Comments                 |
|---------------|----------------------------|----------------------|---------------------------------|----------|-----------------|---------------|----------------------|---------------------------|--------------------------|
| 6396.965      | 1.0                        | 277.0                | Horz                            | PK       | 3.51E-08        | -44.5         | -13.0                | -31.5                     | LTE 5 MHz, Mid Channel   |
| 6456.815      | 3.2                        | 255.0                | Vert                            | PK       | 3.49E-08        | -44.6         | -13.0                | -31.6                     | LTE 5 MHz, High Channel  |
| 6338.295      | 1.0                        | 56.0                 | Vert                            | PK       | 3.42E-08        | -44.7         | -13.0                | -31.7                     | LTE 5 MHz, Low Channel   |
| 6449.540      | 1.0                        | 135.0                | Horz                            | PK       | 3.41E-08        | -44.7         | -13.0                | -31.7                     | LTE 10 MHz, High Channel |
| 6396.170      | 1.0                        | 338.0                | Horz                            | PK       | 3.28E-08        | -44.8         | -13.0                | -31.8                     | LTE 10 MHz, Mid Channel  |
| 6360.935      | 1.0                        | 51.0                 | Horz                            | PK       | 2.89E-08        | -45.4         | -13.0                | -32.4                     | LTE 20 MHz, Low Channel  |
| 6353.815      | 2.9                        | 302.0                | Vert                            | PK       | 2.83E-08        | -45.5         | -13.0                | -32.5                     | LTE 15 MHz, Low Channel  |
| 6396.035      | 1.0                        | 249.0                | Horz                            | PK       | 2.73E-08        | -45.6         | -13.0                | -32.6                     | LTE 20 MHz, Mid Channel  |
| 6434.095      | 1.0                        | 310.0                | Horz                            | PK       | 2.71E-08        | -45.7         | -13.0                | -32.7                     | LTE 20 MHz, High Channel |
| 6359.750      | 1.0                        | 109.0                | Vert                            | PK       | 2.58E-08        | -45.9         | -13.0                | -32.9                     | LTE 20 MHz, Low Channel  |
| 6441.975      | 1.0                        | 360.0                | Horz                            | PK       | 2.53E-08        | -46.0         | -13.0                | -33.0                     | LTE 15 MHz, High Channel |
| 6353.470      | 1.0                        | 23.0                 | Horz                            | PK       | 2.52E-08        | -46.0         | -13.0                | -33.0                     | LTE 15 MHz, Low Channel  |
| 6396.760      | 2.2                        | 107.0                | Vert                            | PK       | 2.49E-08        | -46.0         | -13.0                | -33.0                     | LTE 15 MHz, Mid Channel  |
| 6398.400      | 1.0                        | 160.0                | Horz                            | PK       | 2.37E-08        | -46.2         | -13.0                | -33.2                     | LTE 15 MHz, Mid Channel  |
| 6398.650      | 3.7                        | 174.0                | Vert                            | PK       | 2.32E-08        | -46.3         | -13.0                | -33.3                     | LTE 20 MHz, Mid Channel  |
| 6434.850      | 1.3                        | 101.0                | Vert                            | PK       | 2.31E-08        | -46.4         | -13.0                | -33.4                     | LTE 20 MHz, High Channel |
| 6443.025      | 4.0                        | 100.0                | Vert                            | PK       | 2.31E-08        | -46.4         | -13.0                | -33.4                     | LTE 15 MHz, High Channel |
| 4263.650      | 1.2                        | 240.0                | Vert                            | PK       | 1.41E-08        | -48.5         | -13.0                | -35.5                     | LTE 10 MHz, Mid Channel  |
| 4298.660      | 1.0                        | 13.0                 | Horz                            | PK       | 1.39E-08        | -48.6         | -13.0                | -35.6                     | LTE 10 MHz, High Channel |
| 4306.050      | 1.0                        | 0.0                  | Horz                            | PK       | 1.26E-08        | -49.0         | -13.0                | -36.0                     | LTE 5 MHz, High Channel  |
| 4224.130      | 1.0                        | 99.0                 | Horz                            | PK       | 1.26E-08        | -49.0         | -13.0                | -36.0                     | LTE 5 MHz, Low Channel   |
| 4263.915      | 1.0                        | 208.0                | Horz                            | PK       | 1.23E-08        | -49.1         | -13.0                | -36.1                     | LTE 10 MHz, Mid Channel  |
| 4230.735      | 1.0                        | 36.0                 | Horz                            | PK       | 1.22E-08        | -49.1         | -13.0                | -36.1                     | LTE 10 MHz, Low Channel  |
| 4234.555      | 1.0                        | 311.0                | Horz                            | PK       | 1.19E-08        | -49.2         | -13.0                | -36.2                     | LTE 15 MHz, Low Channel  |
| 4229.045      | 3.1                        | 295.0                | Vert                            | PK       | 1.17E-08        | -49.3         | -13.0                | -36.3                     | LTE 10 MHz, Low Channel  |
| 4301.285      | 1.0                        | 32.0                 | Vert                            | PK       | 1.13E-08        | -49.5         | -13.0                | -36.5                     | LTE 10 MHz, High Channel |
| 4263.540      | 1.0                        | 0.0                  | Horz                            | PK       | 1.12E-08        | -49.5         | -13.0                | -36.5                     | LTE 5 MHz, Mid Channel   |
| 4224.475      | 1.0                        | 360.0                | Vert                            | PK       | 1.12E-08        | -49.5         | -13.0                | -36.5                     | LTE 5 MHz, Low Channel   |
| 4306.110      | 1.6                        | 0.0                  | Vert                            | PK       | 1.07E-08        | -49.7         | -13.0                | -36.7                     | LTE 5 MHz, High Channel  |
| 4264.120      | 1.1                        | 245.0                | Vert                            | PK       | 1.07E-08        | -49.7         | -13.0                | -36.7                     | LTE 5 MHz, Mid Channel   |
| 4241.235      | 1.0                        | 247.0                | Vert                            | PK       | 9.89E-09        | -50.0         | -13.0                | -37.0                     | LTE 20 MHz, Low Channel  |
| 4265.970      | 2.6                        | 176.0                | Vert                            | PK       | 9.55E-09        | -50.2         | -13.0                | -37.2                     | LTE 20 MHz, Mid Channel  |
| 4291.170      | 1.0                        | 88.0                 | Horz                            | PK       | 9.21E-09        | -50.4         | -13.0                | -37.4                     | LTE 20 MHz, High Channel |
| 4290.100      | 1.9                        | 242.0                | Vert                            | PK       | 8.80E-09        | -50.6         | -13.0                | -37.6                     | LTE 20 MHz, High Channel |
| 4235.305      | 1.0                        | 6.0                  | Vert                            | PK       | 8.45E-09        | -50.7         | -13.0                | -37.7                     | LTE 15 MHz, Low Channel  |
| 4264.575      | 1.0                        | 335.0                | Horz                            | PK       | 8.32E-09        | -50.8         | -13.0                | -37.8                     | LTE 20 MHz, Mid Channel  |
| 4295.055      | 1.0                        | 42.0                 | Horz                            | PK       | 8.19E-09        | -50.9         | -13.0                | -37.9                     | LTE 15 MHz, High Channel |
| 4265.945      | 1.0                        | 103.0                | Vert                            | PK       | 8.13E-09        | -50.9         | -13.0                | -37.9                     | LTE 15 MHz, Mid Channel  |
| 4266.230      | 1.0                        | 249.0                | Horz                            | PK       | 7.58E-09        | -51.2         | -13.0                | -38.2                     | LTE 15 MHz, Mid Channel  |
| 4296.330      | 1.0                        | 318.0                | Vert                            | PK       | 7.47E-09        | -51.3         | -13.0                | -38.3                     | LTE 15 MHz, High Channel |

## FREQUENCY STABILITY

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 |
|-------------------------------|---------------------------|--------------------|-----|------------|----------|
| Power Meter                   | Hewlett Packard           | E4418A             | SPA | 4/11/2012  | 24       |
| Power Sensor                  | Agilent                   | E4412A             | SQE | 4/11/2012  | 24       |
| Signal Generator              | Agilent                   | E8257D             | TGU | 2/1/2012   | 36       |
| Chamber, Temperature/Humidity | Cincinnati Sub Zero (CSZ) | ZPHS-32-3.5-SCT/AC | TBE | NCR        | 0        |
| Humidity Temperature Meter    | Omega Engineering, Inc.   | HH331              | DUC | 10/25/2011 | 36       |
| Multimeter                    | Fluke                     | 111                | MMV | NCR        | 0        |
| Spectrum Analyzer             | Agilent                   | E4446A             | AAY | 2/22/2013  | 24       |

### TEST DESCRIPTION

#### Variation of Supply Voltage

The primary supply voltage was varied from 85% to 115% of the nominal voltage. A DC lab supply was used to vary the supply voltage.

#### Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-30° to +50° C) and at 10°C intervals.

The measurement was made with a direct connection between the EUT antenna port and the test equipment. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.



## FREQUENCY STABILITY

XMit 2013.08.15

|                                                                                                                                            |   |                                                                                             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|--|
| EUT: AWS RRH                                                                                                                               |   | Work Order: KMWC0048                                                                        |  |
| Serial Number: U365000113                                                                                                                  |   | Date: 01/13/14                                                                              |  |
| Customer: KMW Communications                                                                                                               |   | Temperature: 23.4°C                                                                         |  |
| Attendees: Edward Lee                                                                                                                      |   | Humidity: 42%                                                                               |  |
| Project: None                                                                                                                              |   | Barometric Pres.: 1012                                                                      |  |
| Tested by: Jaemi Suh                                                                                                                       |   | Power: 48VDC                                                                                |  |
|                                                                                                                                            |   | Job Site: OC13                                                                              |  |
| TEST SPECIFICATIONS                                                                                                                        |   | Test Method                                                                                 |  |
| FCC 27L:2014                                                                                                                               |   | ANSI/TIA/EIA-603-C-2004                                                                     |  |
| COMMENTS                                                                                                                                   |   |                                                                                             |  |
| Power Level Settings: 60W. The spec is: Sufficient to ensure that the fundamental emissions stay within the authorized bands of operation" |   |                                                                                             |  |
| DEVIATIONS FROM TEST STANDARD                                                                                                              |   |                                                                                             |  |
| None                                                                                                                                       |   |                                                                                             |  |
| Configuration #                                                                                                                            | 1 | Signature  |  |

## Frequency Stability with Variation of DC Voltage (Ambient Temperature = 20° C)

| Voltage (VDC) | Assigned Frequency (MHz) | Measured Frequency (MHz) | Tolerance (ppm) | Specification (ppm) |
|---------------|--------------------------|--------------------------|-----------------|---------------------|
| 55.2 (115%)   | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 52.8 (110%)   | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 50.4 (105%)   | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 48 (100%)     | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 45.6 (95%)    | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 43.2 (90%)    | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 40.8 (85%)    | 2132.500000              | 2132.500001              | 0.00            | See Comments        |

## Frequency Stability with Variation of Ambient Temperature (Primary Supply = 48 VDC)

| Temp (°C) | Assigned Frequency (MHz) | Measured Frequency (MHz) | Tolerance (ppm) | Specification (ppm) |
|-----------|--------------------------|--------------------------|-----------------|---------------------|
| 50        | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 40        | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 30        | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 20        | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 10        | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| 0         | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| -10       | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| -20       | 2132.500000              | 2132.500001              | 0.00            | See Comments        |
| -30       | 2132.500000              | 2132.500001              | 0.00            | See Comments        |