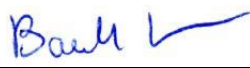



| | |
|-----------------------------|---------------|
| Report Reference ID: | 364520-4TRFWL |
|-----------------------------|---------------|

| | |
|----------------------------|--|
| Test specification: | Title 47 – Telecommunication Chapter I – Federal Communications Commission Subchapter B – Common carrier services Part 27 – Miscellaneous wireless communications services |
|----------------------------|--|

| | |
|-------------------|--|
| Applicant: | TEKO Telecom Srl. Via Meucci, 24/a I-40024 Castel S. Pietro Terme (BO) (Italy) |
| Apparatus: | Cell hub Mid-power Radio Remote Unit |
| Model: | XR19AX35WM2/48Y |
| FCC ID: | XM2-X19AX35M2 |

| | |
|----------------------------|---|
| Testing laboratory: | Nemko Italy Spa Via del Carroccio, 4 20853 Biassono (MB) – Italy Telephone: +39 039 2201201 Facsimile: +39 039 2201221 |
|----------------------------|---|

| | Name and title | Date |
|---------------------|---|------------|
| Tested by: |  <hr/> P. Barbieri, Wireless/EMC Specialist | 05/14/2019 |
| Reviewed by: |  <hr/> D. Guarnone, Wireless/EMC Specialist | 05/14/2019 |

Nemko Spa, 20853 Biassono (MB) - Italy. All rights reserved.

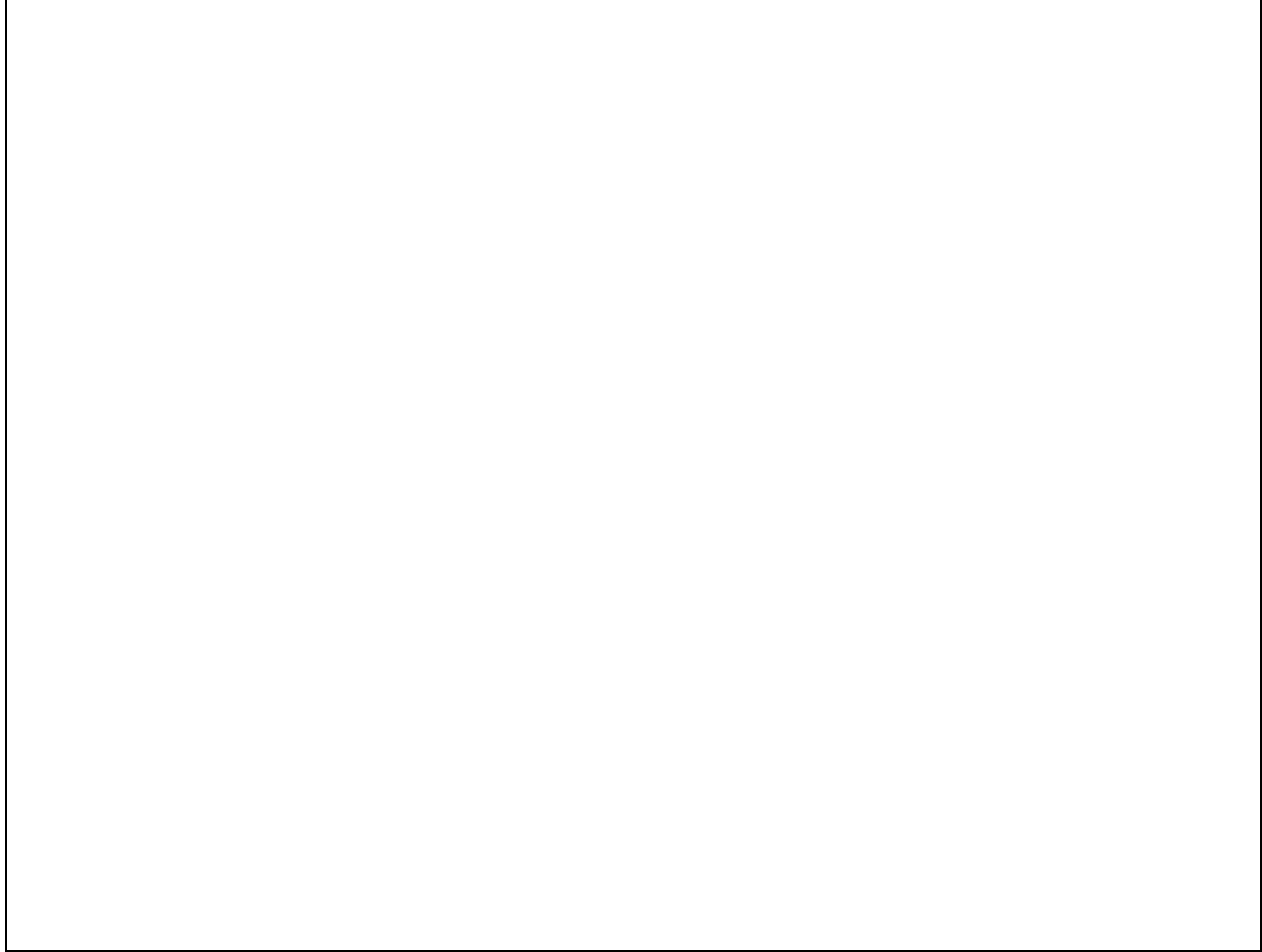
This publication may be reproduced in whole for non-commercial purposes as long as Nemko Spa is acknowledged as copyright owner and source of the material. Nemko Spa takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Nemko Spa accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This test report may not be partially reproduced, except with the prior written permission of Nemko Spa. The test report merely corresponds to the test sample. The phase of sampling / collection of equipment under test is carried out by the customer.

This Test Report, when bearing the Nemko name and logo is only valid when issued by a Nemko laboratory, or by a laboratory having special agreement with Nemko.

Table of contents

| | |
|--|-----------|
| Section 1: Report summary | 4 |
| 1.1 Test specification | 4 |
| 1.2 Statement of compliance | 4 |
| 1.3 Exclusions | 4 |
| 1.4 Registration number | 4 |
| 1.5 Test report revision history | 4 |
| 1.6 Limits of responsibility | 4 |
| Section 2: Summary of test results | 5 |
| 2.1 FCC Part 27, test results | 5 |
| Section 3: Equipment under test (EUT) and application details | 6 |
| 3.1 Applicant details | 6 |
| 3.2 Modular equipment | 6 |
| 3.3 Product details | 6 |
| 3.4 Application purpose | 6 |
| 3.5 Composite/related equipment | 7 |
| 3.6 Sample information | 7 |
| 3.7 EUT technical specifications | 7 |
| 3.8 Accessories and support equipment | 8 |
| 3.9 Operation of the EUT during testing | 9 |
| 3.10 EUT setup diagram | 9 |
| Section 4: Engineering considerations | 10 |
| 4.1 Modifications incorporated in the EUT | 10 |
| 4.2 Deviations from laboratory tests procedures | 10 |
| 4.3 Technical judgment | 10 |
| Section 5: Test conditions | 11 |
| 5.1 Deviations from laboratory tests procedures | 11 |
| 5.2 Test conditions, power source and ambient temperatures | 11 |
| 5.3 Measurement uncertainty | 12 |
| 5.4 Test equipment | 13 |
| Appendix A: Test results | 14 |
| Clause 27.53(h)(3) Occupied bandwidth | 14 |
| Clause 27.50(d) Peak output power at RF antenna connector | 35 |
| Clause 27.53(h) Spurious emissions at RF antenna connector | 72 |
| Clause 27.53(h) Radiated Spurious emissions | 126 |
| Clause 27.54 Frequency stability | 290 |

| | |
|---|------------|
| Appendix B: Block diagrams of test set-ups | 309 |
| Appendix C: EUT Photos..... | 310 |



Section 1: Report summary

1.1 Test specification

| | |
|-----------------------|---|
| Specifications | Part 27 – Miscellaneous wireless communications services |
|-----------------------|---|

1.2 Statement of compliance

| | |
|-------------------|---|
| Compliance | <p>In the configuration tested the EUT was found compliant Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Test method: ANSI C63.26-2015, 662911 D01 Multiple Transmitter Output v02r01, 662911 D02 MIMO with Cross-Polarized Antennas v01.</p> |
|-------------------|---|

1.3 Exclusions

| | |
|-------------------|------|
| Exclusions | None |
|-------------------|------|

1.4 Registration number

| | |
|--------------------------------|--------|
| Test site FCC ID number | 682159 |
|--------------------------------|--------|

1.5 Test report revision history

| Revision # | Details of changes made to test report |
|------------|--|
| TRF | Original report issued |
| R1TRF | ---- |

1.6 Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. Nemko Spa authorizes the applicant to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

Nemko Spa accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Section 2: Summary of test results

2.1 FCC Part 27, test results

| Part | Methods | Test description | Verdict |
|--------------|---------|---|---------|
| §27.53(h)(3) | 2.1049 | Occupied bandwidth | Pass |
| §27.50(d) | 2.1046 | Peak output power at RF antenna connector EIRP | Pass |
| §27.50(d) | 2.1046 | Peak output power at RF antenna connector PAPR | Pass |
| §27.53(h) | 2.1051 | Spurious emissions at RF antenna connector | Pass |
| §27.53(h) | 2.1053 | Radiated spurious emissions | Pass |
| §27.54 | 2.1055 | Frequency stability | Pass |

Notes:

Section 3: Equipment under test (EUT) and application details

3.1 Applicant details

| | | |
|---|------------------------------------|------------------------|
| Applicant complete business name | Name: | Teko Telecom Srl |
| | Federal Registration Number (FRN): | 0018963462 |
| | Grantee code | XM2 |
| Mailing address | Address: | Via Meucci, 24/a |
| | City: | Castel S. Pietro Terme |
| | Province/State: | Bologna |
| | Post code: | 40024 |
| | Country: | Italy |

3.2 Modular equipment

| | |
|---|--|
| a) Single modular approval | Single modular approval Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| b) Limited single modular approval | Limited single modular approval Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

3.3 Product details

| | | |
|---|--------------------|-----------------|
| FCC ID | Grantee code: | XM2 |
| | Product code: | -X19AX35M2 |
| Equipment class | PCB | |
| Description of product as it is marketed | Base Station | |
| | Model name/number: | XR19AX35WM2/48Y |
| | Serial number: | 1012991001 |

3.4 Application purpose

| | |
|----------------------------|--|
| Type of application | <input checked="" type="checkbox"/> Original certification <input type="checkbox"/> Change in identification of presently authorized equipment Original FCC ID: _____ Grant date: _____ <input type="checkbox"/> Class II permissive change or modification of presently authorized equipment |
|----------------------------|--|

Section 3: Equipment under test

3.5 Composite/related equipment

| | |
|-------------------------------|---|
| a) Composite equipment | The EUT is a composite device subject to an additional equipment authorization Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| b) Related equipment | The EUT is part of a system that operates with, or is marketed with, another device that requires an equipment authorization Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| c) Related FCC ID | If either of the above is "yes": <input type="checkbox"/> has been granted under the FCC ID(s) listed below: <input checked="" type="checkbox"/> is in the process of being filled under the FCC ID(s) listed below: <input type="checkbox"/> is pending with the FCC ID(s) listed below: <input type="checkbox"/> has a mix of pending and granted statuses under the FCC ID(s) listed below: i FCC ID: XM2-X19AX35M2 ii FCC ID: |

3.6 Sample information

| | |
|--------------------------------|------------|
| Receipt date: | 04/01/2019 |
| Nemko sample ID number: | ----- |

3.7 EUT technical specifications

| | |
|-----------------------------|--|
| Operating band: | Down Link: 2180–2200 MHz |
| Operating frequency: | Wideband |
| Modulation type: | LTE (16QAM, 64QAM, 256QAM, QPSK) |
| Occupied bandwidth: | LTE: 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| Channel spacing: | standard |
| Emission designator: | LTE: D7W |
| RF Output | Down Link: 27dBm (0.5 W) |
| Antenna type: | External Antenna is not provided, equipment that has an external 50 Ω RF connector |
| Power source: | 48 Vdc |

Section 3: Equipment under test

3.8 Accessories and support equipment
 The following information identifies accessories used to exercise the EUT during testing:

| | |
|------------------------|--------|
| Item # 1 | |
| Type of equipment: | Server |
| Brand name: | Dell |
| Model name or number: | E38S |
| Serial number: | 066JJ5 |
| Nemko sample number: | ----- |
| Connection port: | ----- |
| Cable length and type: | ----- |
| Item # 2 | |
| Type of equipment: | |
| Brand name: | |
| Model name or number: | |
| Serial number: | |
| Nemko sample number: | |
| Connection port: | |
| Cable length and type: | |
| Item # 3 | |
| Type of equipment: | |
| Brand name: | |
| Model name or number: | |
| Serial number: | |
| Nemko sample number: | |
| Connection port: | |
| Cable length and type: | |
| Item # 4 | |
| Type of equipment: | |
| Brand name: | |
| Model name or number: | |
| Serial number: | |
| Nemko sample number: | |
| Connection port: | |
| Cable length and type: | |
| | |

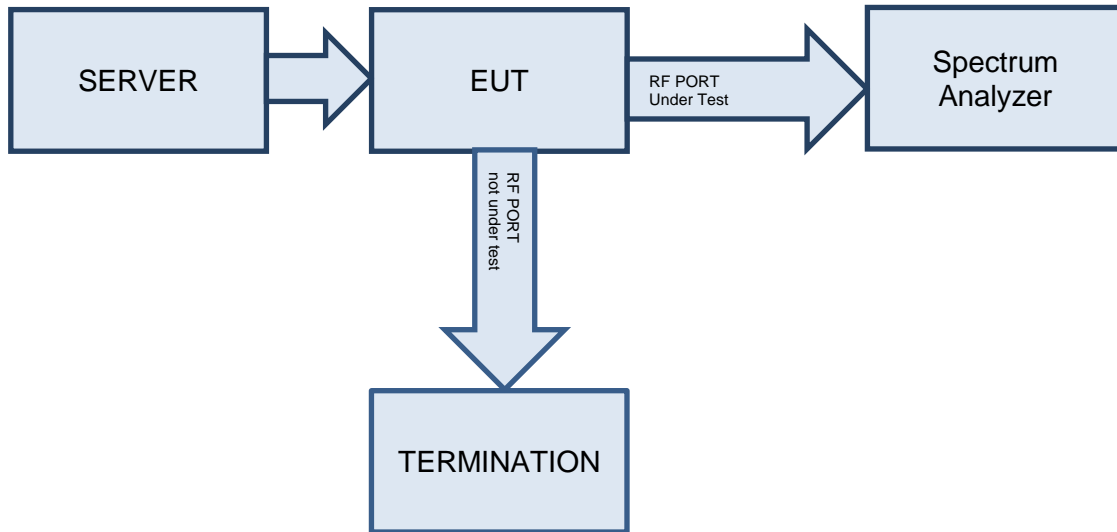
3.9 Operation of the EUT during testing

| | |
|-----------------|---|
| Details: | <p>In down-link direction, normal working at max gain with max RF power output.</p> <p>This report refer to measurement both RF port 1 and RF port 2.</p> <p>When a RF port has been tested, the other one has been terminated on 50Ω load.</p> |
|-----------------|---|

3.10 EUT setup diagram

In this system Cell Hub (Base Station) is the EUT.
 The server generates wanted signals in base band frequency and Cell Hub convert the signal to RF band.

Test setup :



Procedure

Connect the server to the input of EUT by means of optical fiber, so the EUT can works at the maximum power.

Connect the spectrum analyzer to the RF output connector of the EUT.

Section 4: Engineering considerations

4.1 Modifications incorporated in the EUT

| | |
|----------------------|---|
| Modifications | Modifications performed to the EUT during this assessment None <input checked="" type="checkbox"/> Yes <input type="checkbox"/> , performed by Client <input type="checkbox"/> or Nemko <input type="checkbox"/> Details: |
|----------------------|---|

4.2 Deviations from laboratory tests procedures

| | |
|-------------------|---|
| Deviations | Deviations from laboratory test procedures None <input checked="" type="checkbox"/> Yes <input type="checkbox"/> - details are listed below: |
|-------------------|---|

4.3 Technical judgment

| | |
|-----------------|------|
| Judgment | None |
|-----------------|------|

Section 5: Test conditions

5.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

5.2 Test conditions, power source and ambient temperatures

| | |
|--|--|
| <p>Normal temperature, humidity and air pressure test conditions</p> | <p>Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 86–106 kPa</p> <p>When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.</p> |
| <p>Power supply range:</p> | <p>The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.</p> |

Section 5: Test conditions, continued

5.3 Measurement uncertainty

| EUT | Type | Test | Range and Setup features | Measurement Uncertainty | Notes |
|-------------|--------------------------------------|---|--------------------------|-------------------------|--------|
| Transmitter | Conducted | Frequency error | 0.001 MHz ÷ 40 GHz | 0.08 ppm | (1) |
| | | Carrier power RF Output Power | 10 kHz ÷ 30 MHz | 1.0 dB | (1) |
| | | | 30 MHz ÷ 18 GHz | 1.5 dB | (1) |
| | | | 18 MHz ÷ 40 GHz | 3.0 dB | (1) |
| | | | Adjacent channel power | 1 MHz ÷ 18 GHz | 1.6 dB |
| | | Conducted spurious emissions | 10 kHz ÷ 26 GHz | 3.0 dB | (1) |
| | | | 26 GHz ÷ 40 GHz | 4.5 dB | (1) |
| | | Intermodulation attenuation | 1 MHz ÷ 18 GHz | 2.2 dB | (1) |
| | | Attack time – frequency behaviour | 1 MHz ÷ 18 GHz | 2.0 ms | (1) |
| | | Attack time – power behaviour | 1 MHz ÷ 18 GHz | 2.5 ms | (1) |
| | | Release time – frequency behaviour | 1 MHz ÷ 18 GHz | 2.0 ms | (1) |
| | | Release time – power behaviour | 1 MHz ÷ 18 GHz | 2.5 ms | (1) |
| | | Transient behaviour of the transmitter– Transient frequency behaviour | 1 MHz ÷ 18 GHz | 0.2 kHz | (1) |
| | | Transient behaviour of the transmitter – Power level slope | 1 MHz ÷ 18 GHz | 9% | (1) |
| | | Frequency deviation - Maximum permissible frequency deviation | 0.001 MHz ÷ 18 GHz | 1.3% | (1) |
| | | Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz | 0.001 MHz ÷ 18 GHz | 0.5 dB | (1) |
| | | Dwell time | - | 3% | (1) |
| | | Hopping Frequency Separation | 0.01 MHz ÷ 18 GHz | 1% | (1) |
| | Occupied Channel Bandwidth | 0.01 MHz ÷ 18 GHz | 2% | (1) | |
| | Modulation Bandwidth | 0.01 MHz ÷ 18 GHz | 2% | (1) | |
| Radiated | Radiated spurious emissions | 10 kHz ÷ 26.5 GHz | 6.0 dB | (1) | |
| | | 26.5 GHz ÷ 40 GHz | 8.0 dB | (1) | |
| | Effective radiated power transmitter | 10 kHz ÷ 26.5 GHz | 6.0 dB | (1) | |
| | | 26,5 GHz ÷ 40 GHz | 8.0 dB | (1) | |
| Receiver | Radiated | Radiated spurious emissions | 10 kHz ÷ 26.5 GHz | 6.0 dB | (1) |
| | | | 26.5 GHz ÷ 40 GHz | 8.0 dB | (1) |
| | | Sensitivity measurement | 1 MHz ÷ 18 GHz | 6.0 dB | (1) |
| | Conducted | Conducted spurious emissions | 10 kHz ÷ 26 GHz | 3.0 dB | (1) |
| | | | 26 GHz ÷ 40 GHz | 4.5 dB | (1) |

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2 which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %

5.4 Test equipment

| Equipment | Manufacturer | Model No. | Asset/Serial No. | Next cal. |
|--|--------------|---------------------------|------------------|-----------|
| Spectrum Analyzer | Agilent | N9030A PXA | MY53120882 | 12/2019 |
| Climatic Chambre | Angelantoni | ACS-Hygros 600 | 7237 | 09/2020 |
| Trilog Broad Band Antenna 25-8000 MHz | Schwarzbeck | VULB 9162 | VULB 9162-25 | 07/2021 |
| Antenna 1-18 GHz | Schwarzbeck | STLP 9148 | STPL 9148-123 | 07/2021 |
| Double ridge horn antenna (4 ÷ 40 GHz) | RFSpin | DRH40 | 061106A40 | 02/2020 |
| Broadband preamplifier (18 ÷ 40 GHz) | Miteq | JS44-18004000-35-8P-R | 1.627 | 09/2019 |
| Broadband preamplifier 1-18 GHz | Schwarzbeck | BBV 9718 | 9718-137 | 08/2019 |
| EMI receiver 20 Hz ÷ 8 GHz | R&S | ESU8 | 100202 | 01/2020 |
| EMI receiver 2 Hz ÷ 44 GHz | R&S | ESW44 | 101620 | 05/2019 |
| Hydraulic revolving platform | Nemko | RTPL 01 | 4.233 | NCR |
| Turning-table | R&S | HCT | 835 803/03 | NCR |
| Antenna mast | R&S | HCM | 836 529/05 | NCR |
| Controller | R&S | HCC | 836 620/7 | NCR |
| Semi-anechoic chamber | Nemko | 10m semi-anechoic chamber | 530 | 09/2021 |
| Shielded room | Siemens | 10m control room | 1947 | NCR |
| Semi-anechoic chamber | Nemko | 10m semi-anechoic chamber | 70 | NCR |
| Shielded Room | Siemens | 3m semi-anechoic chamber | 3 | NCR |
| Motor controller | Emco | 1051-25 | 9012-1559 | NCR |
| Motor controller | Emco | 1061-1.521 | 9012-1508 | NCR |
| Antenna Tower | Emco | 2071-2 | 9601-1940 | NCR |
| Controller pole/table | Emco | 2090 | 9511-1099 | NCR |

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use
 (*) Equipment supplied by manufacturer's

Appendix A: Test results

Clause 27.53(h)(3) Occupied bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test date: [04/03/2019 to 05/10/2019](#)

Test results: [Pass](#)

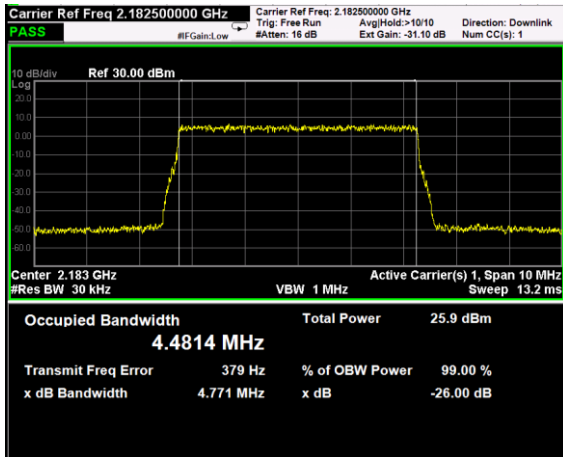
Special notes

-

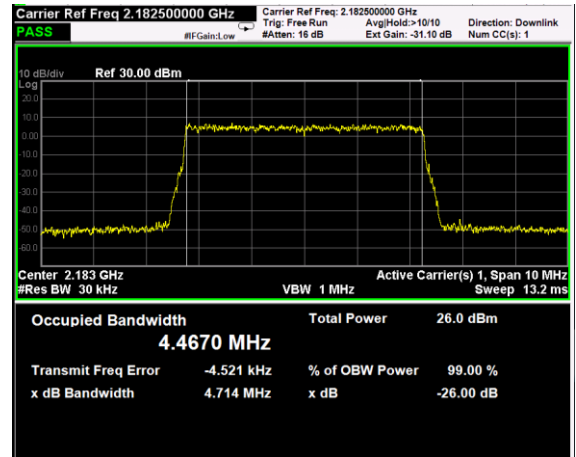
Clause 27.53(h)(3) Occupied bandwidth, continued

Test data

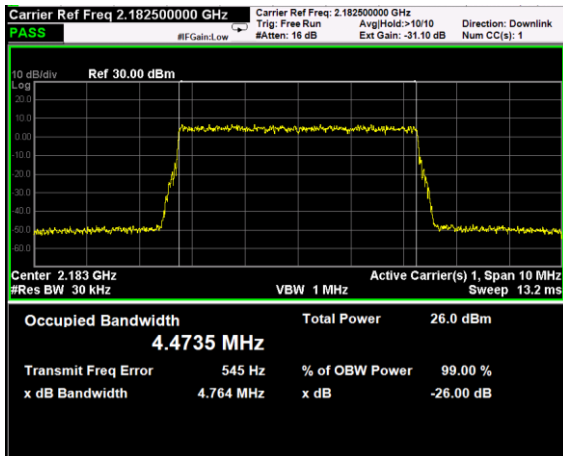
RF PORT 1



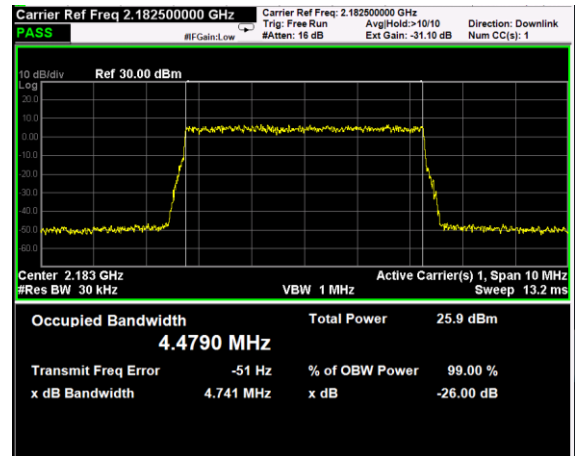
Channel: BOTTOM, Modulation: QPSK, BW=5MHz



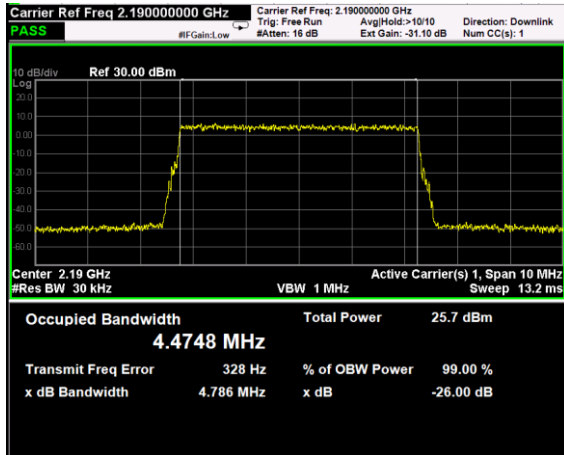
Channel: BOTTOM, Modulation: 16QAM, BW=5MHz



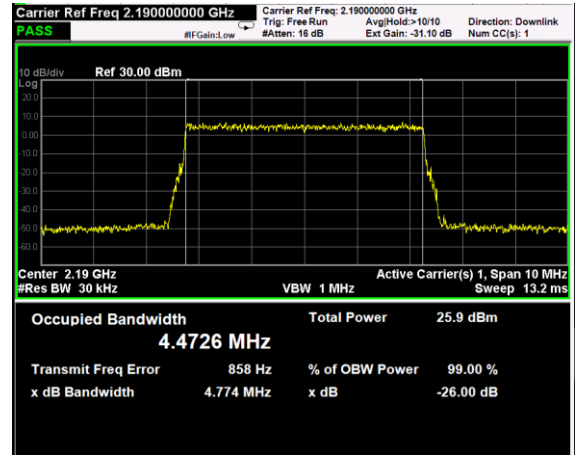
Channel: BOTTOM, Modulation: 64QAM, BW=5MHz



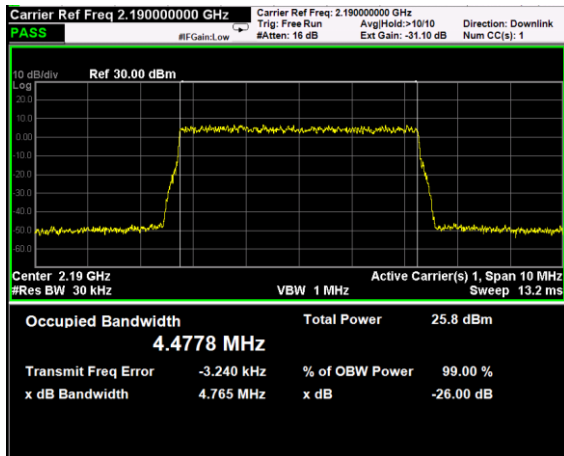
Channel: BOTTOM, Modulation: 256QAM, BW=5MHz



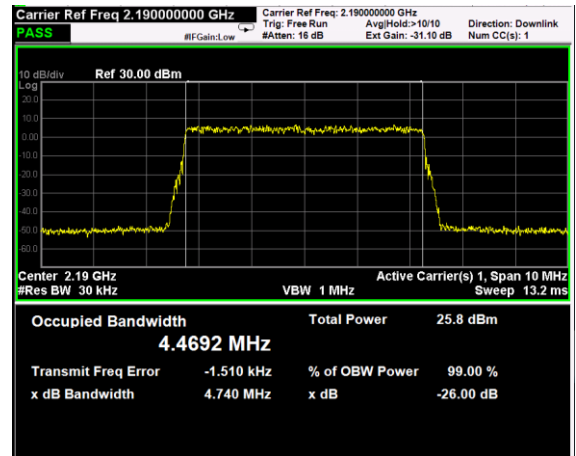
Channel: MIDDLE, Modulation: QPSK, BW=5MHz



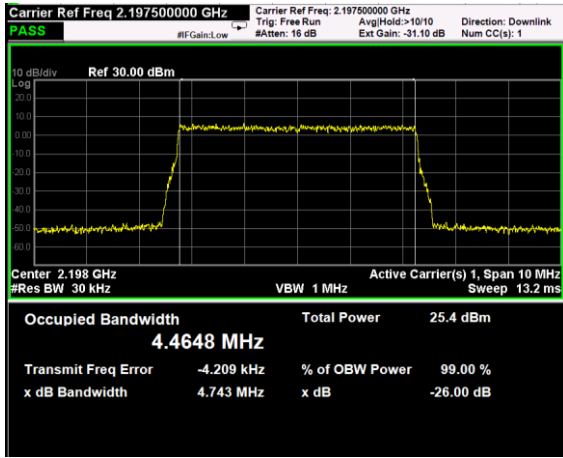
Channel: MIDDLE, Modulation: 16QAM, BW=5MHz



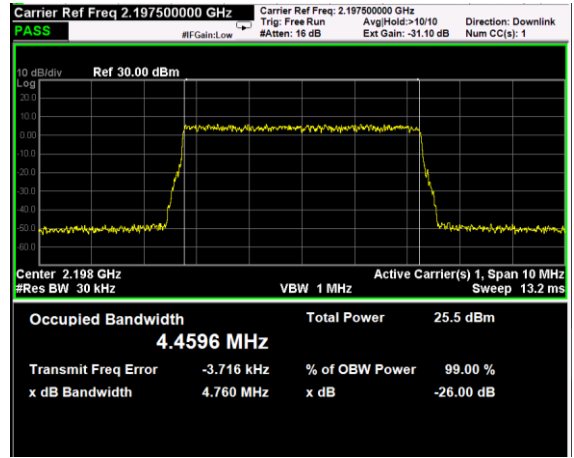
Channel: MIDDLE, Modulation: 64QAM, BW=5MHz



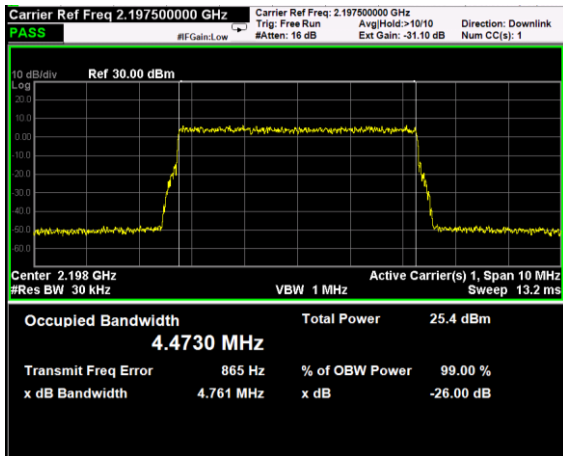
Channel: MIDDLE, Modulation: 256QAM, BW=5MHz



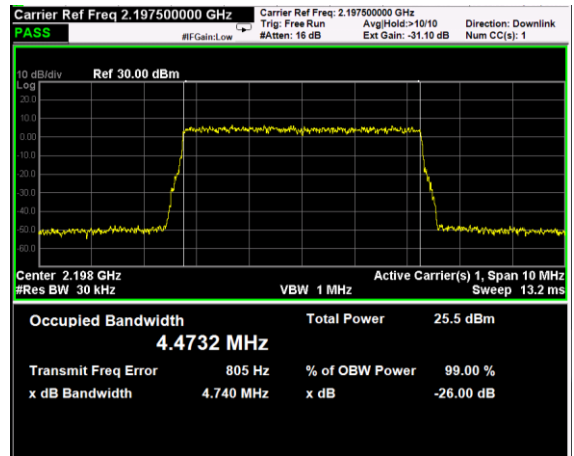
Channel: TOP, Modulation: QPSK,
BW=5MHz



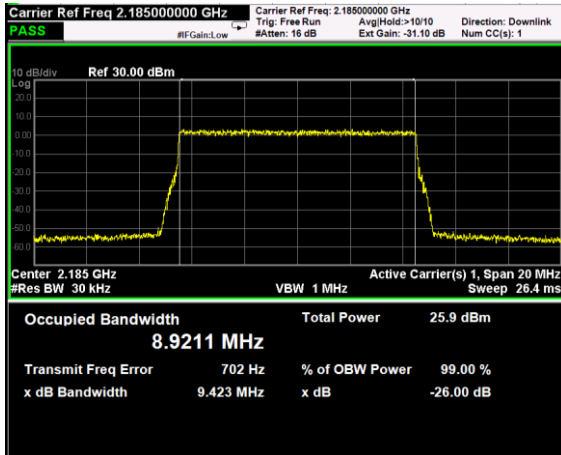
Channel: TOP, Modulation: 16QAM,
BW=5MHz



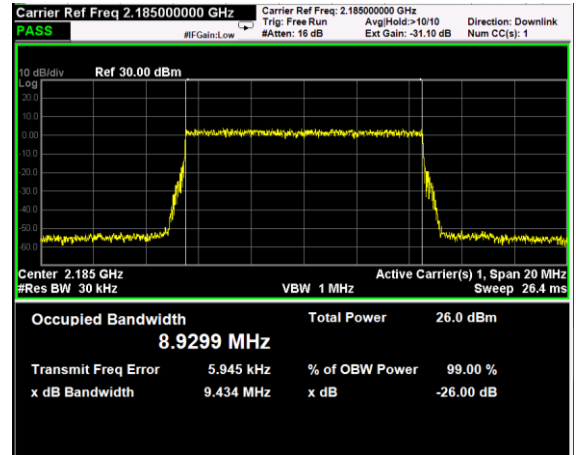
Channel: TOP, Modulation: 64QAM,
BW=5MHz



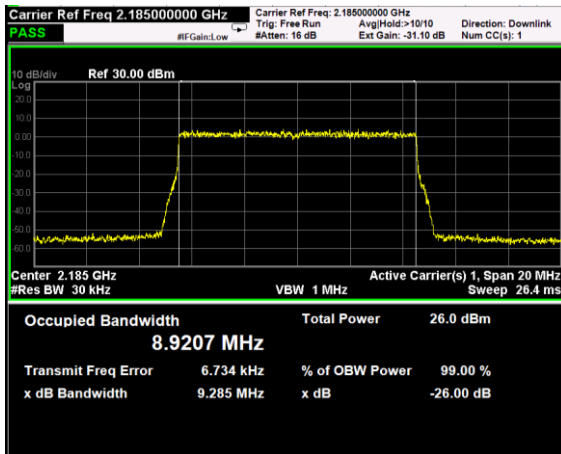
Channel: TOP, Modulation: 256QAM,
BW=5MHz



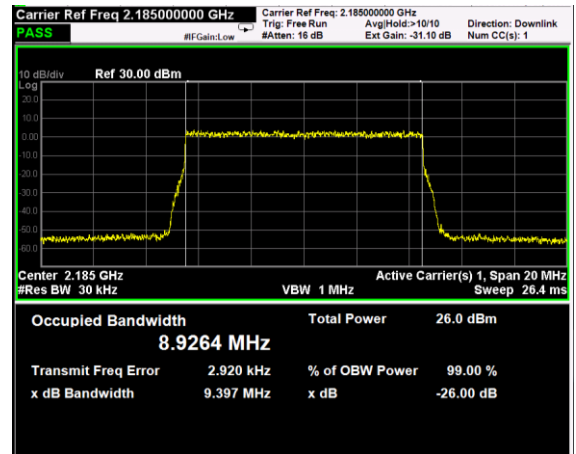
Channel: BOTTOM, Modulation: QPSK, BW=10MHz



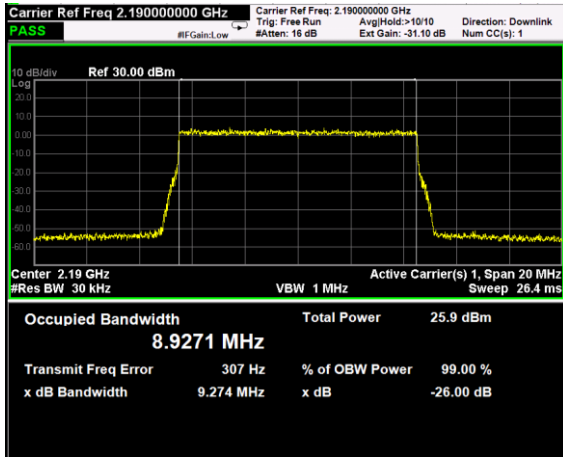
Channel: BOTTOM, Modulation: 16QAM, BW=10MHz



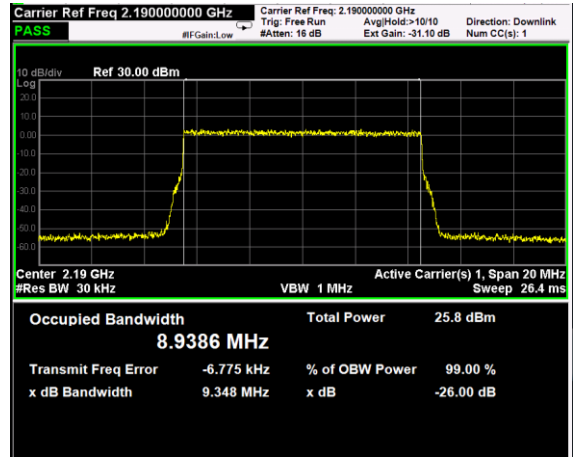
Channel: BOTTOM, Modulation: 64QAM, BW=10MHz



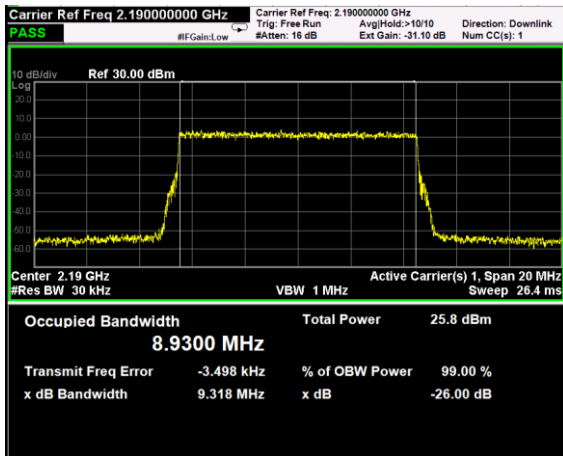
Channel: BOTTOM, Modulation: 256QAM, BW=10MHz



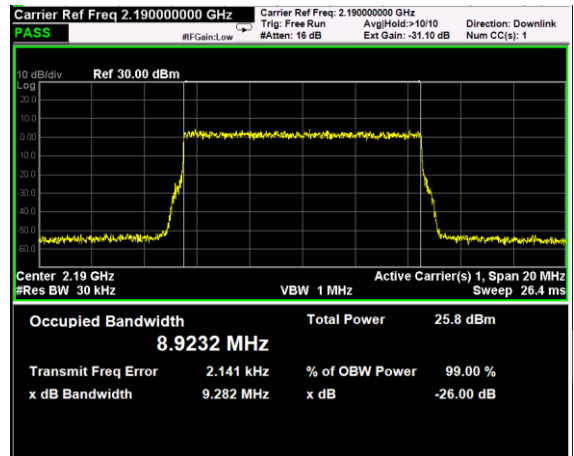
Channel: MIDDLE, Modulation: QPSK, BW=10MHz



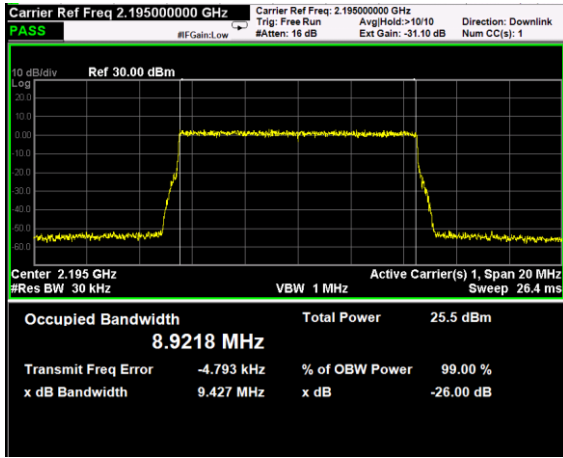
Channel: MIDDLE, Modulation: 16QAM, BW=10MHz



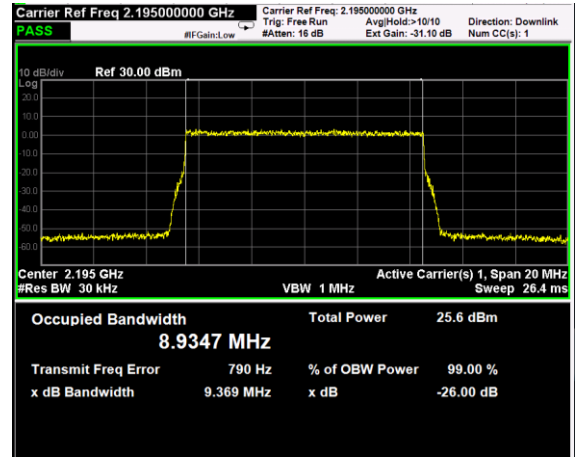
Channel: MIDDLE, Modulation: 64QAM, BW=10MHz



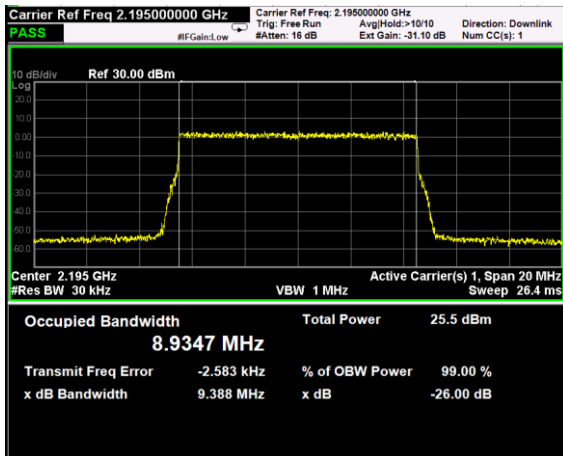
Channel: MIDDLE, Modulation: 256QAM, BW=10MHz



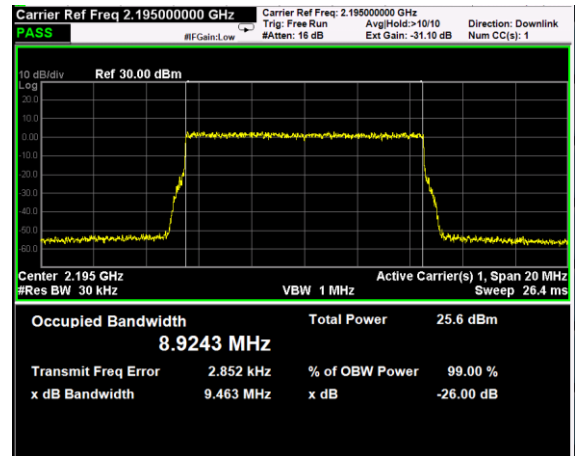
Channel: TOP, Modulation: QPSK,
BW=10MHz



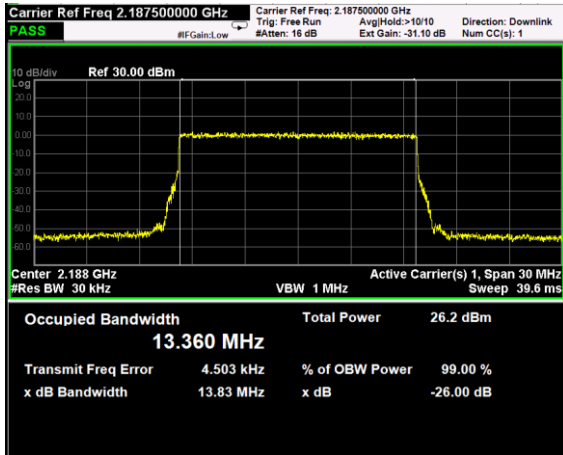
Channel: TOP, Modulation: 16QAM,
BW=10MHz



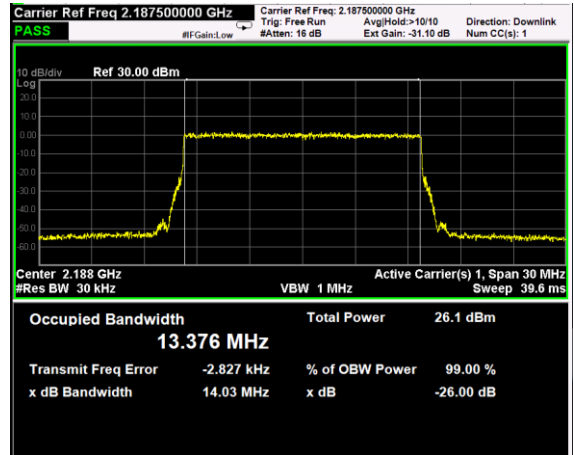
Channel: TOP, Modulation: 64QAM,
BW=10MHz



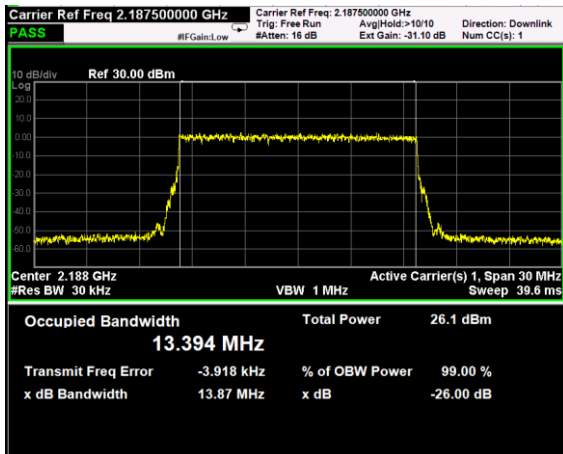
Channel: TOP, Modulation: 256QAM,
BW=10MHz



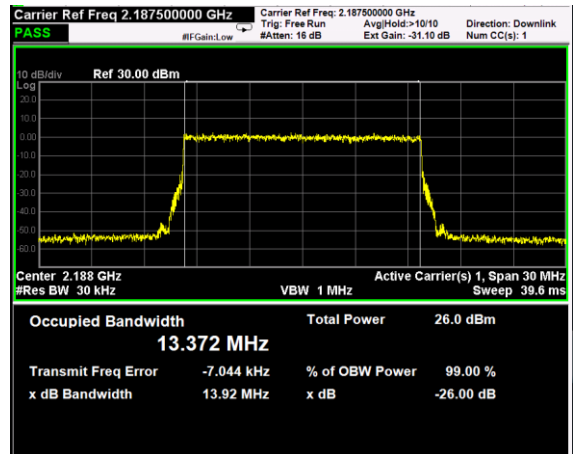
Channel: BOTTOM, Modulation: QPSK, BW=15MHz



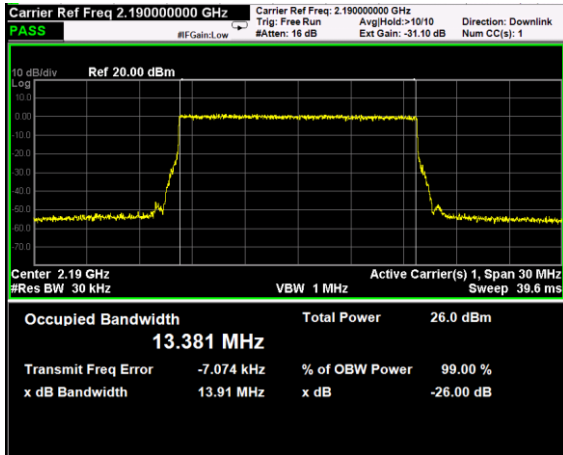
Channel: BOTTOM, Modulation: 16QAM, BW=15MHz



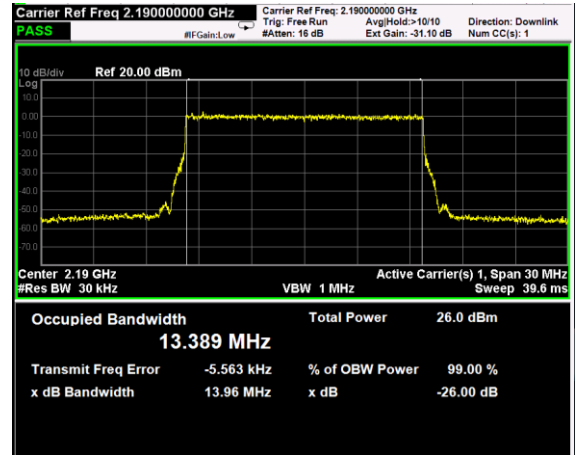
Channel: BOTTOM, Modulation: 64QAM, BW=15MHz



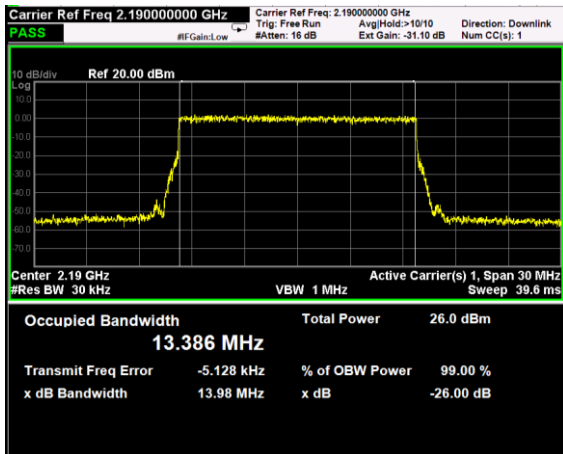
Channel: BOTTOM, Modulation: 256QAM, BW=15MHz



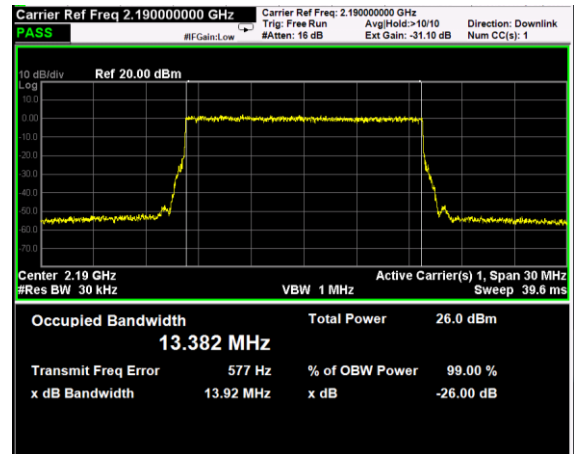
Channel: MIDDLE, Modulation: QPSK, BW=15MHz



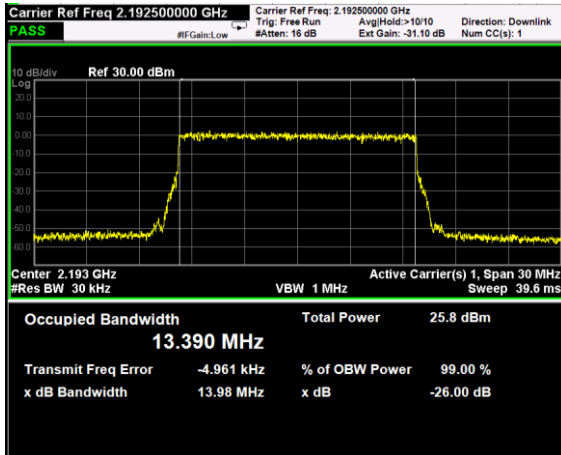
Channel: MIDDLE, Modulation: 16QAM, BW=15MHz



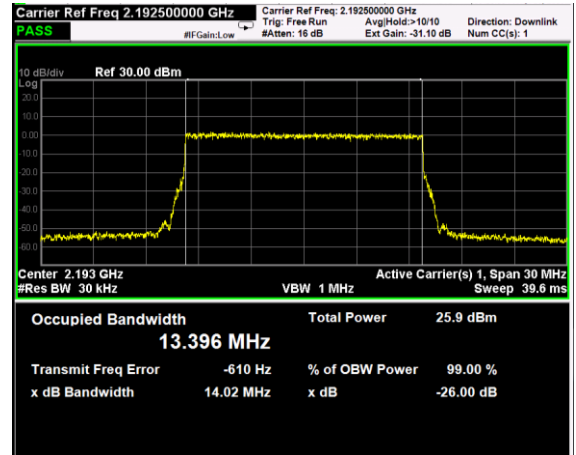
Channel: MIDDLE, Modulation: 64QAM, BW=15MHz



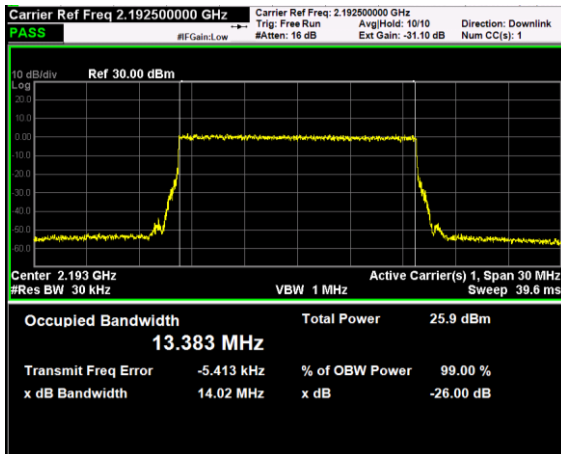
Channel: MIDDLE, Modulation: 256QAM, BW=15MHz



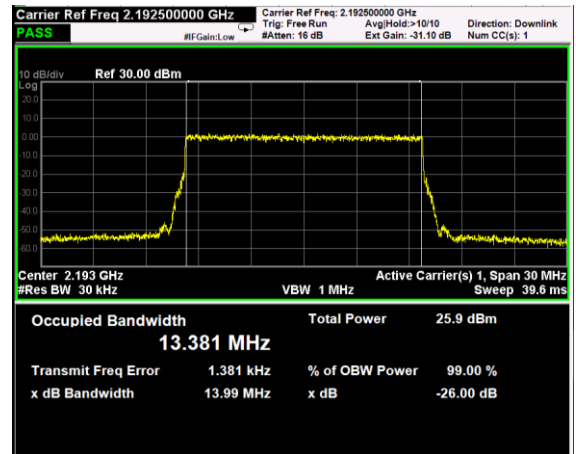
Channel: TOP, Modulation: QPSK,
BW=15MHz



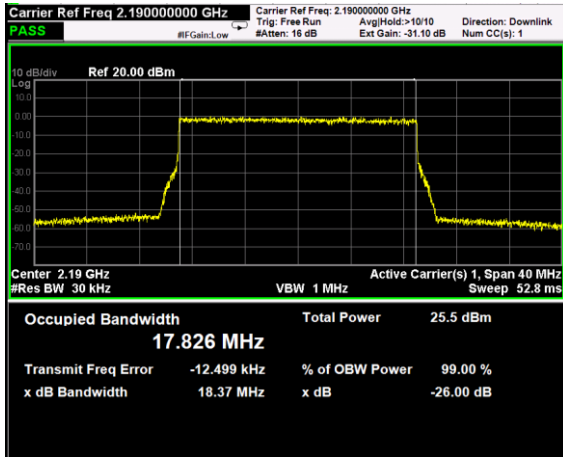
Channel: TOP, Modulation: 16QAM,
BW=15MHz



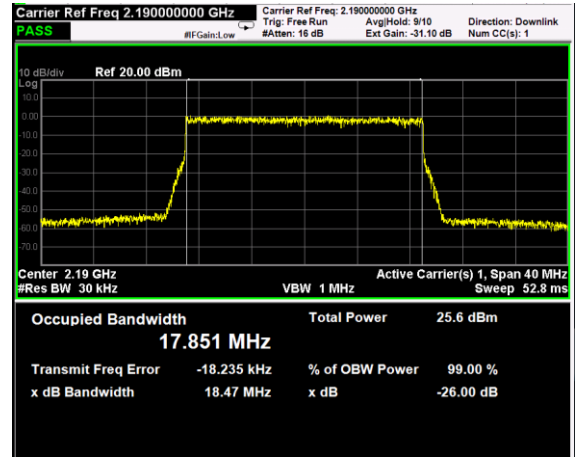
Channel: TOP, Modulation: 64QAM,
BW=15MHz



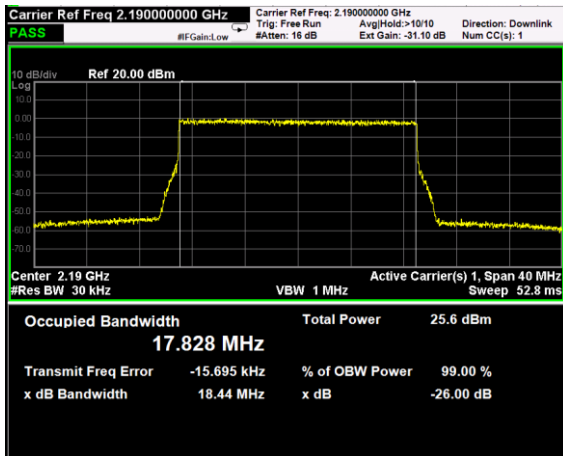
Channel: TOP, Modulation: 256QAM,
BW=15MHz



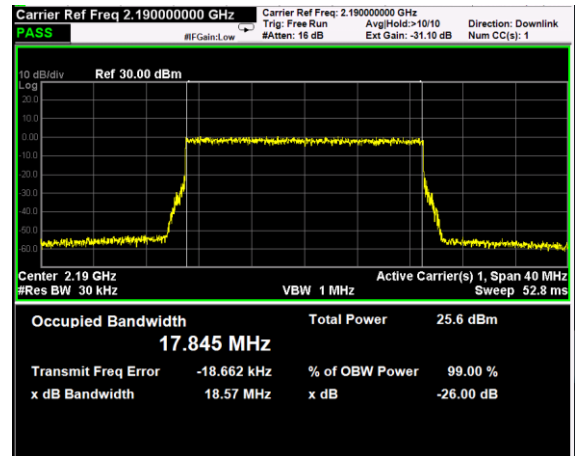
Channel: MIDDLE, Modulation: QPSK, BW=20MHz



Channel: MIDDLE, Modulation: 16QAM, BW=20MHz

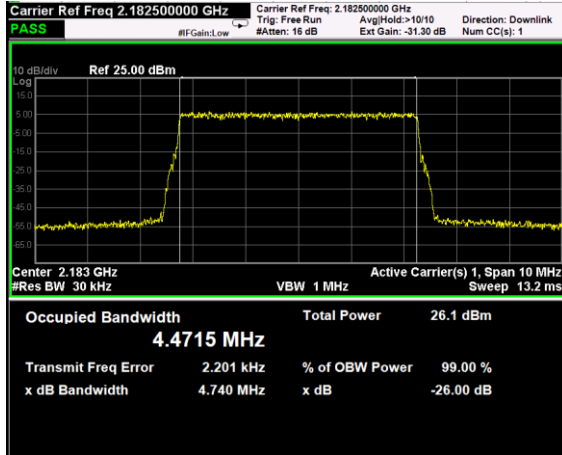


Channel: MIDDLE, Modulation: 64QAM, BW=20MHz

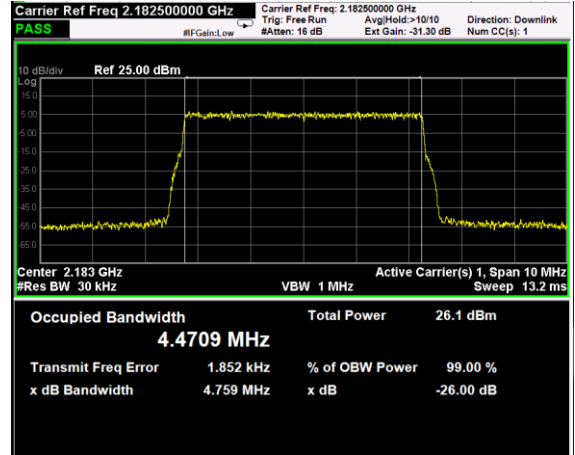


Channel: MIDDLE, Modulation: 256QAM, BW=20MHz

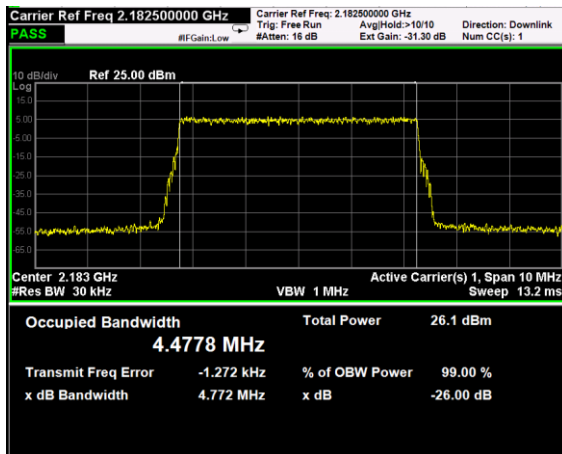
RF PORT 2



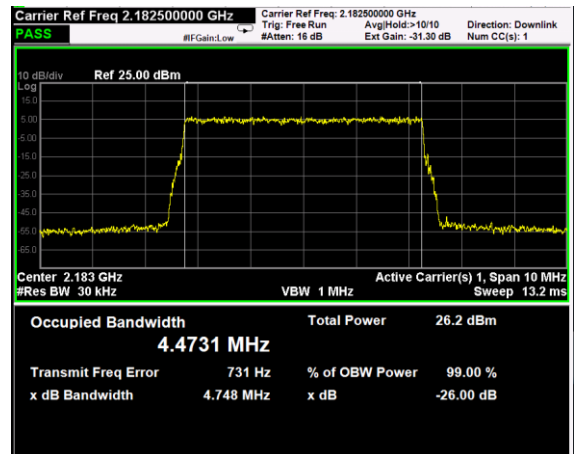
Channel: BOTTOM, Modulation: QPSK, BW=5MHz



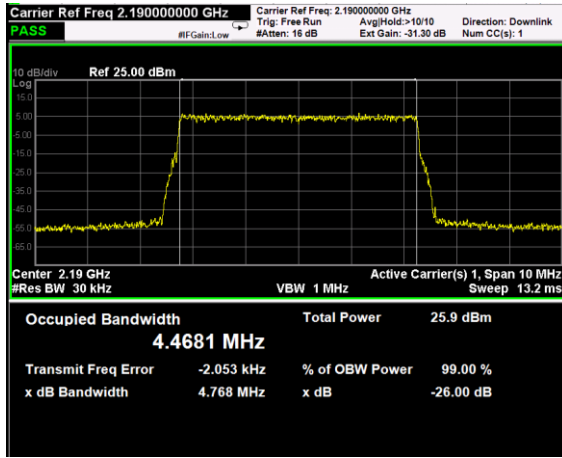
Channel: BOTTOM, Modulation: 16QAM, BW=5MHz



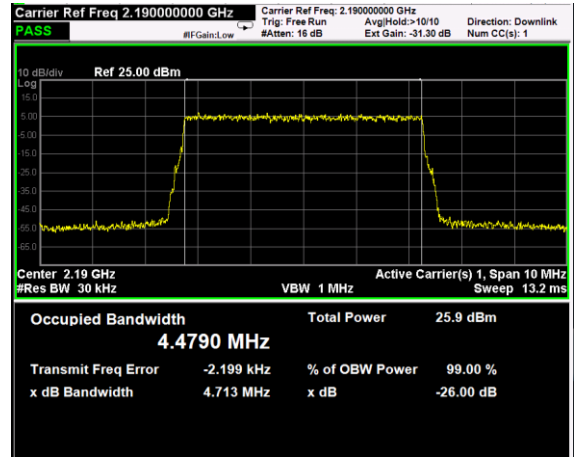
Channel: BOTTOM, Modulation: 64QAM, BW=5MHz



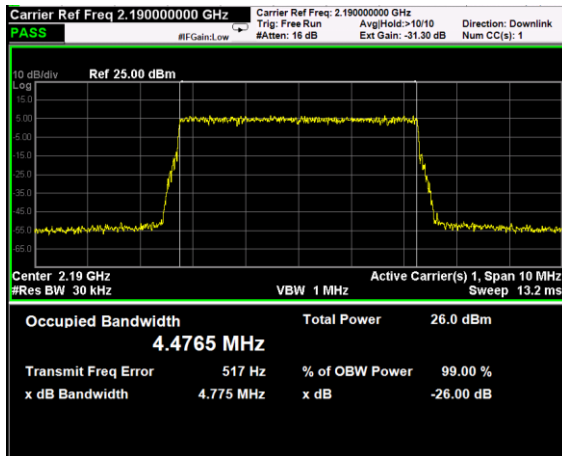
Channel: BOTTOM, Modulation: 256QAM, BW=5MHz



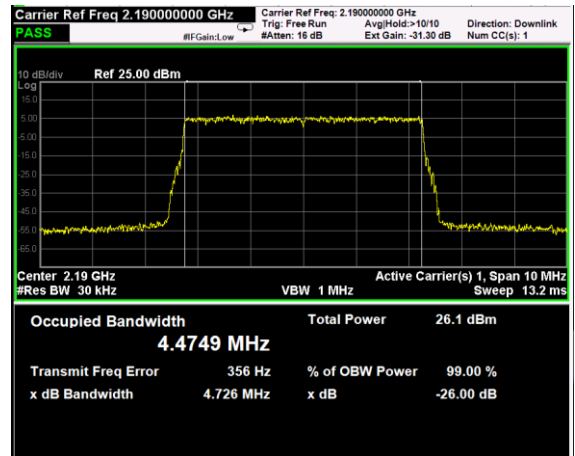
Channel: MIDDLE, Modulation: QPSK, BW=5MHz



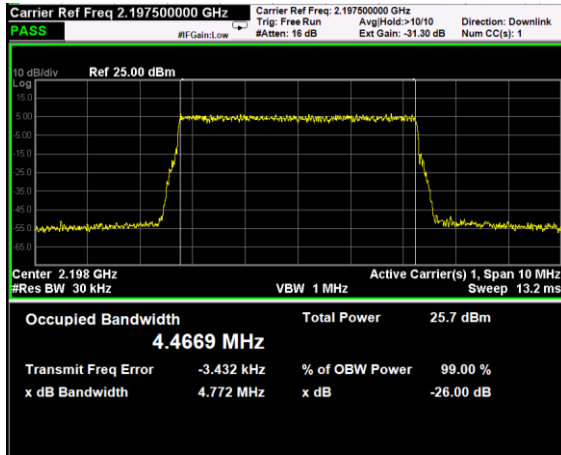
Channel: MIDDLE, Modulation: 16QAM, BW=5MHz



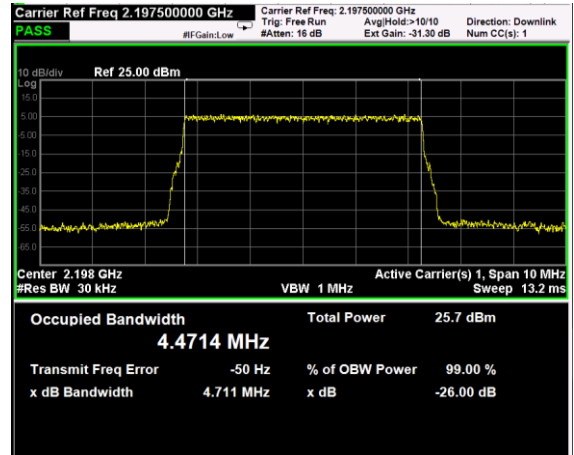
Channel: MIDDLE, Modulation: 64QAM, BW=5MHz



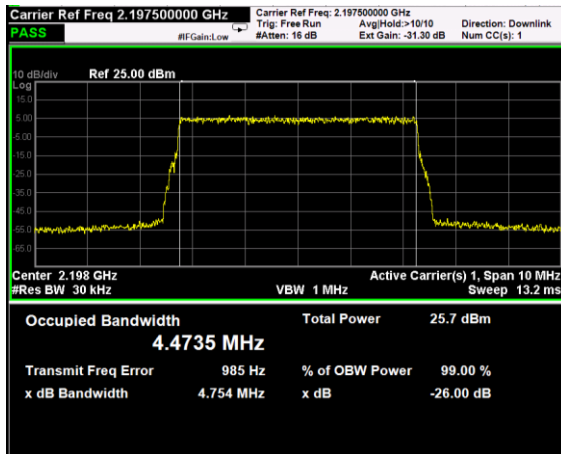
Channel: MIDDLE, Modulation: 256QAM, BW=5MHz



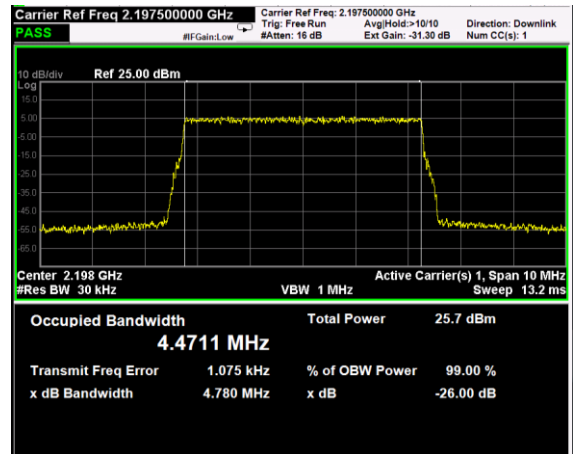
Channel: TOP, Modulation: QPSK, BW=5MHz



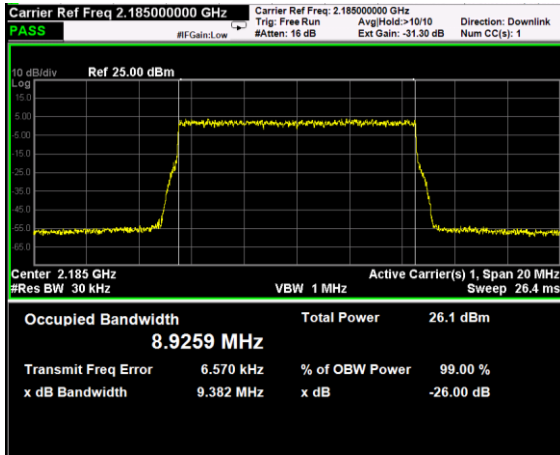
Channel: TOP, Modulation: 16QAM, BW=5MHz



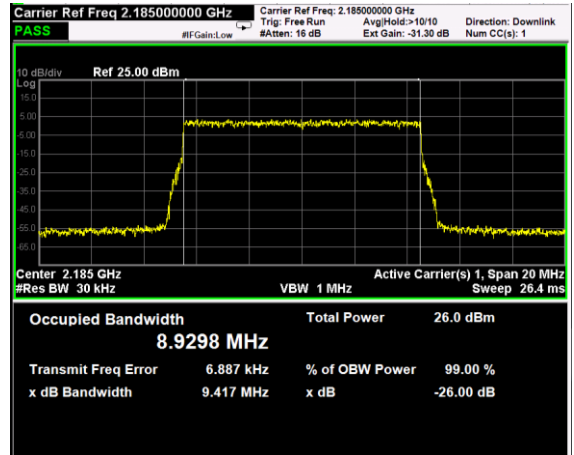
Channel: TOP, Modulation: 64QAM, BW=5MHz



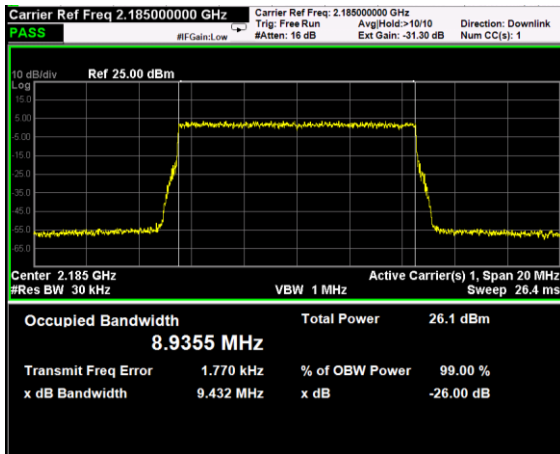
Channel: TOP, Modulation: 256QAM, BW=5MHz



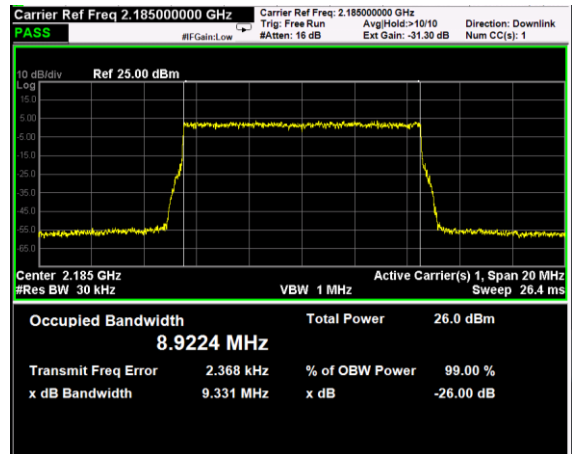
Channel: BOTTOM, Modulation: QPSK, BW=10MHz



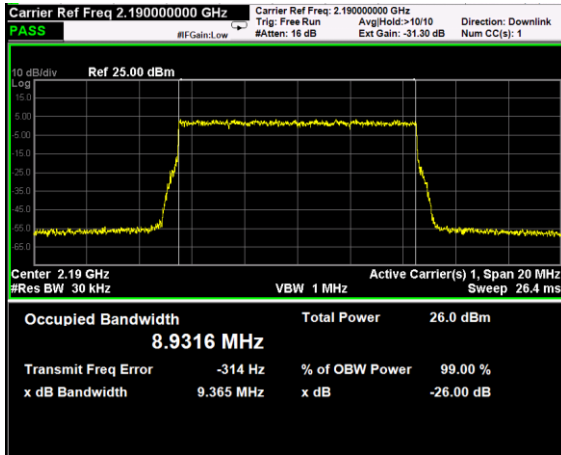
Channel: BOTTOM, Modulation: 16QAM, BW=10MHz



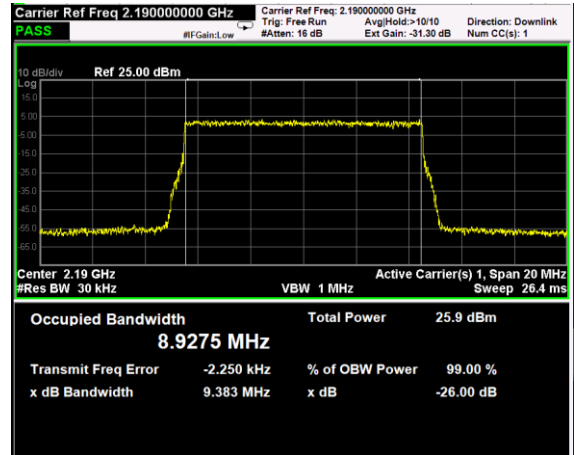
Channel: BOTTOM, Modulation: 64QAM, BW=10MHz



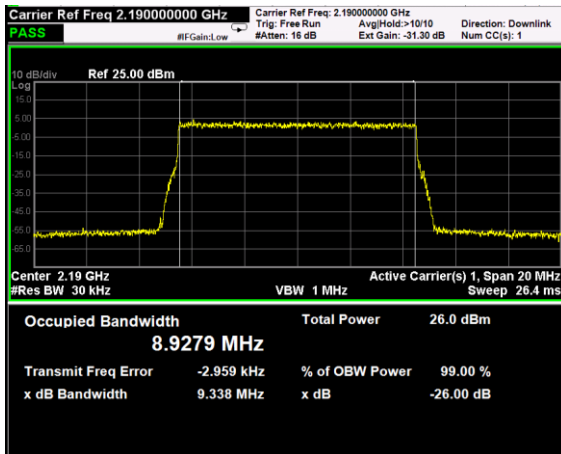
Channel: BOTTOM, Modulation: 256QAM, BW=10MHz



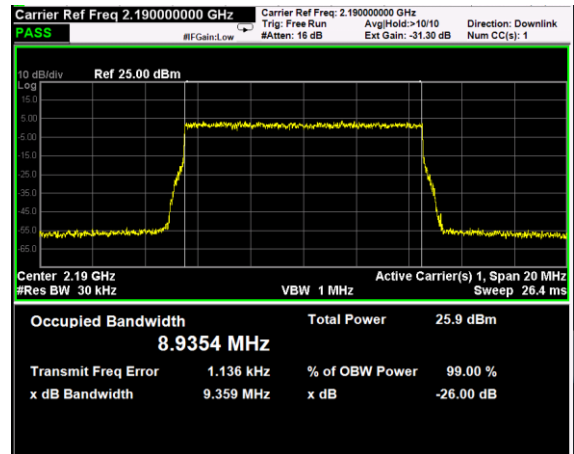
Channel: MIDDLE, Modulation: QPSK, BW=10MHz



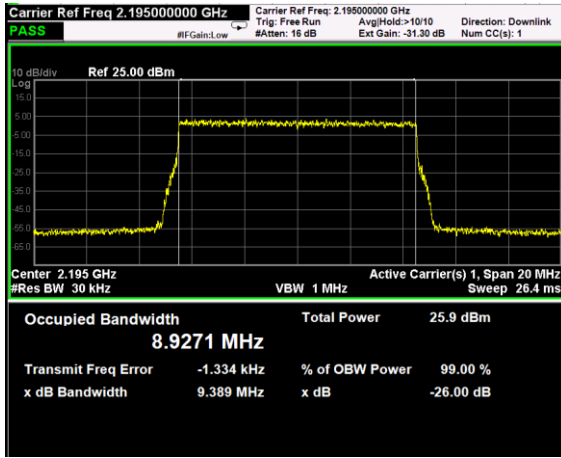
Channel: MIDDLE, Modulation: 16QAM, BW=10MHz



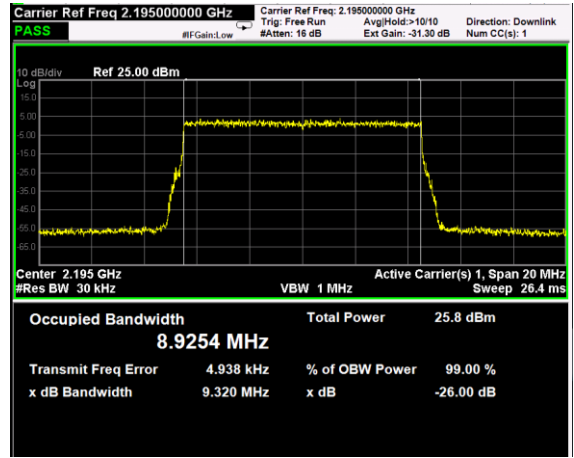
Channel: MIDDLE, Modulation: 64QAM, BW=10MHz



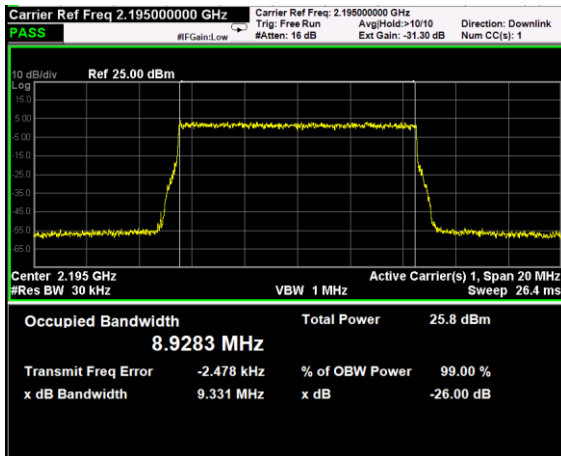
Channel: MIDDLE, Modulation: 256QAM, BW=10MHz



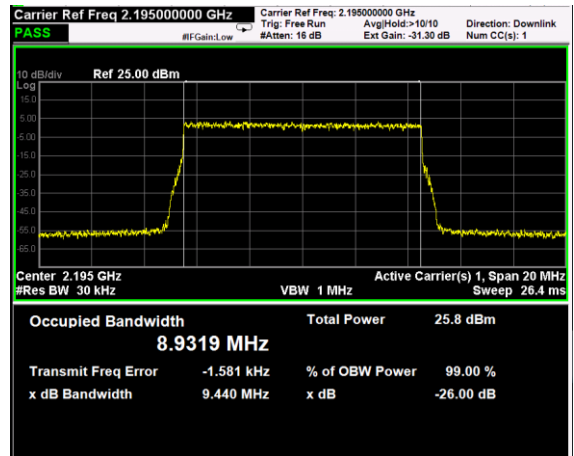
Channel: TOP, Modulation: QPSK, BW=10MHz



Channel: TOP, Modulation: 16QAM, BW=10MHz



Channel: TOP, Modulation: 64QAM, BW=10MHz



Channel: TOP, Modulation: 256QAM, BW=10MHz