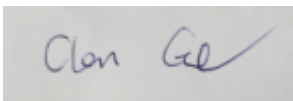


# RF TEST REPORT



Report No.: FCC\_RF\_SL1503101-SPC-045\_04L2  
Supersede Report No.: NONE

|                                                                                                                                      |                            |                                                                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|--|
| Applicant                                                                                                                            | SpiderCloud Wireless, Inc. |                                                                                       |  |
| Product Name                                                                                                                         | SpiderCloud Radio Node     |                                                                                       |  |
| Model No.                                                                                                                            | SCRN-310-04L2              |                                                                                       |  |
| Test Standard                                                                                                                        | 47CFR Part27               |                                                                                       |  |
| Test Method                                                                                                                          | TIA-603-D: 2010            |                                                                                       |  |
| FCC ID                                                                                                                               | Y47RN310B4L2               |                                                                                       |  |
| Date of test                                                                                                                         | 02/13/2014 - 09/30/2015    |                                                                                       |  |
| Issue Date                                                                                                                           | 10/01/2015                 |                                                                                       |  |
| Test Result                                                                                                                          | <u>Pass</u>                | Fail                                                                                  |  |
| Equipment complied with the specification                                                                                            | [ x ]                      |                                                                                       |  |
| Equipment did not comply with the specification                                                                                      | [ ]                        |                                                                                       |  |
|                                                                                                                                      |                            |                                                                                       |  |
|                                                                                                                                      |                            |                                                                                       |  |
|                                                   |                            |  |  |
| Chen Ge                                                                                                                              |                            | Nima Molaei                                                                           |  |
| Test Engineer                                                                                                                        |                            | Engineer Reviewer                                                                     |  |
| This test report may be reproduced in full only<br>Test result presented in this test report is applicable to the tested sample only |                            |                                                                                       |  |

Issued By:  
SIEMIC Laboratories  
775 Montague Expressway, Milpitas, 95035 CA



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## Laboratory Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Accreditation Body     | Scope                              |
|----------------|------------------------|------------------------------------|
| USA            | FCC, A2LA              | EMC , RF/Wireless , Telecom        |
| Canada         | IC, A2LA, NIST         | EMC, RF/Wireless , Telecom         |
| Taiwan         | BSMI , NCC , NIST      | EMC, RF, Telecom , Safety          |
| Hong Kong      | OFTA , NIST            | RF/Wireless ,Telecom               |
| Australia      | NATA, NIST             | EMC, RF, Telecom , Safety          |
| Korea          | KCC/RRR, NIST          | EMI, EMS, RF , Telecom, Safety     |
| Japan          | VCCI, JATE, TELEC, RFT | EMI, RF/Wireless, Telecom          |
| Mexico         | NOM, COFETEL, Caniety  | Safety, EMC , RF/Wireless, Telecom |
| Europe         | A2LA, NIST             | EMC, RF, Telecom , Safety          |
| Israel         | MOC, NIST              | EMC, RF, Telecom, Safety           |

### Accreditations for Product Certifications

| Country   | Accreditation Body | Scope                 |
|-----------|--------------------|-----------------------|
| USA       | FCC TCB, NIST      | EMC , RF , Telecom    |
| Canada    | IC FCB , NIST      | EMC , RF , Telecom    |
| Singapore | iDA, NIST          | EMC , RF , Telecom    |
| EU        | NB                 | EMC & R&TTE Directive |
| Japan     | MIC (RCB 208)      | RF , Telecom          |
| HongKong  | OFTA (US002)       | RF , Telecom          |

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## 1 Report Revision History

| Report No.                     | Report Version | Description | Issue Date |
|--------------------------------|----------------|-------------|------------|
| FCC_RF_SL15083101-SPC-045_0402 | None           | Original    | 10/01/2015 |
|                                |                |             |            |
|                                |                |             |            |
|                                |                |             |            |
|                                |                |             |            |
|                                |                |             |            |

## 2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company: SpiderCloud Wireless, Inc.  
Product: SpiderCloud Radio Node  
Model: SCRN-310-04L2

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1<sup>st</sup> page.

## 3 Customer information

|                      |                                           |
|----------------------|-------------------------------------------|
| Applicant Name       | SpiderCloud Wireless, Inc.                |
| Applicant Address    | 408 E. Plumeria Drive, San Jose, CA 95134 |
| Manufacturer Name    | SpiderCloud Wireless, Inc.                |
| Manufacturer Address | 408 E. Plumeria Drive, San Jose, CA 95134 |

## 4 Test site information

|                      |                                             |
|----------------------|---------------------------------------------|
| Lab performing tests | SIEMIC Laboratories                         |
| Lab Address          | 775 Montague Expressway, Milpitas, CA 95035 |
| FCC Test Site No.    | 881796                                      |
| IC Test Site No.     | 4842D-2                                     |
| VCCI Test Site No.   | A0133                                       |

## 5 Modification

| Index | Item | Description | Note |
|-------|------|-------------|------|
| -     | -    | -           | -    |
|       |      |             |      |
|       |      |             |      |
|       |      |             |      |
|       |      |             |      |
|       |      |             |      |

## 6 EUT Information

### 6.1 EUT Description

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product Name              | SpiderCloud Radio Node                                                                                                           |
| Model No.                 | SCRN-310-04L2                                                                                                                    |
| Trade Name                | SpiderCloud                                                                                                                      |
| Serial No.                | 13338A10454                                                                                                                      |
| Input Power               | 56VDC (PoE)                                                                                                                      |
| Power Adapter Manu/Model  | POE36U-1AT-R                                                                                                                     |
| Power Adapter SN          | -                                                                                                                                |
| Hardware version          | -                                                                                                                                |
| Software version          | -                                                                                                                                |
| Date of EUT received      | 2/10/2014                                                                                                                        |
| Equipment Class/ Category | TNB                                                                                                                              |
| Operating Frequencies     | LTE: TX (1930 MHz to 1995 MHz), LTE: RX (1850 MHz to 1915 MHz)<br>LTE: TX (2110 MHz to 2155 MHz), LTE: RX (1710 MHz to 1755 MHz) |
| Port/Connectors           | RJ45 (PoE)                                                                                                                       |
| Remark                    | NONE                                                                                                                             |

## 6.2 Radio Description

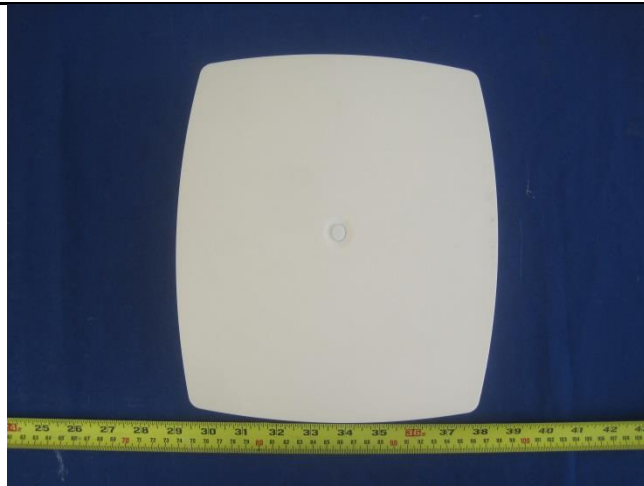
| Item                       | LTE                                                  | LTE                                                  |
|----------------------------|------------------------------------------------------|------------------------------------------------------|
| Operating Band /Radio Type | LTE Band 4                                           | LTE Band 2                                           |
| Bandwidth                  | 5MHz, 10 MHz, 15MHz, 20 MHz                          | 5MHz, 10 MHz, 15MHz, 20 MHz                          |
| Modulation                 | QPSK/16QAM/64QAM                                     | QPSK/16QAM/64QAM                                     |
| Antenna Type               | Internal Omni-directional antenna                    | Internal Omni-directional antenna                    |
| Antenna Gain               | 3 dBi                                                | 3 dBi                                                |
| Frequency TX(MHz)          | TX: 2110 MHz to 2155 MHz<br>RX: 1710 MHz to 1755 MHz | TX: 1930 MHz to 1995 MHz<br>RX: 1850 MHz to 1915 MHz |

## 6.3 EUT test modes/configuration Description

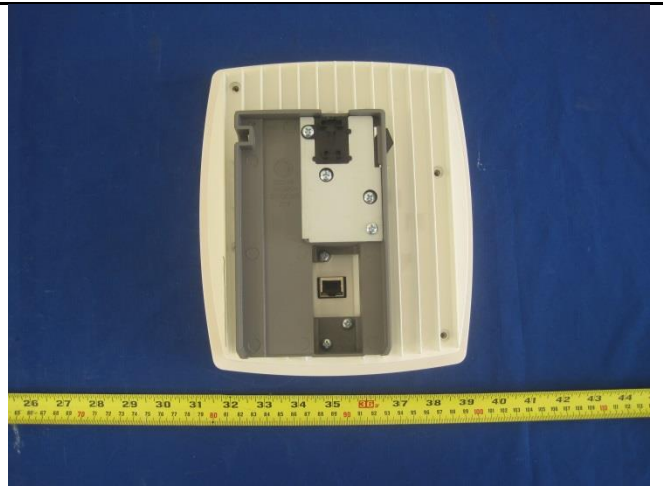
### Test mode

| Final Test Mode    |                                                | Note            |
|--------------------|------------------------------------------------|-----------------|
| Final_test_mode_1  | Continuous transmission, 5MHz, QPSK, Low CH    | LTE-Band4/Band2 |
| Final_test_mode_2  | Continuous transmission, 5MHz, QPSK, Mid CH    | LTE-Band4/Band2 |
| Final_test_mode_3  | Continuous transmission, 5MHz, QPSK, High CH   | LTE-Band4/Band2 |
| Final_test_mode_4  | Continuous transmission, 10MHz, QPSK, Low CH   | LTE-Band4/Band2 |
| Final_test_mode_5  | Continuous transmission, 10MHz, QPSK, Mid CH   | LTE-Band4/Band2 |
| Final_test_mode_6  | Continuous transmission, 10MHz, QPSK, High CH  | LTE-Band4/Band2 |
| Final_test_mode_7  | Continuous transmission, 15MHz, QPSK, Low CH   | LTE-Band4/Band2 |
| Final_test_mode_8  | Continuous transmission, 15MHz, QPSK, Mid CH   | LTE-Band4/Band2 |
| Final_test_mode_9  | Continuous transmission, 15MHz, QPSK, High CH  | LTE-Band4/Band2 |
| Final_test_mode_10 | Continuous transmission, 20MHz, QPSK, Low CH   | LTE-Band4/Band2 |
| Final_test_mode_11 | Continuous transmission, 20MHz, QPSK, Mid CH   | LTE-Band4/Band2 |
| Final_test_mode_12 | Continuous transmission, 20MHz, QPSK, High CH  | LTE-Band4/Band2 |
| Final_test_mode_13 | Continuous transmission, 5MHz, 64QAM, Low CH   | LTE-Band4/Band2 |
| Final_test_mode_14 | Continuous transmission, 5MHz, 64QAM, Mid CH   | LTE-Band4/Band2 |
| Final_test_mode_15 | Continuous transmission, 5MHz, 64QAM, High CH  | LTE-Band4/Band2 |
| Final_test_mode_16 | Continuous transmission, 10MHz, 64QAM, Low CH  | LTE-Band4/Band2 |
| Final_test_mode_17 | Continuous transmission, 10MHz, 64QAM, Mid CH  | LTE-Band4/Band2 |
| Final_test_mode_18 | Continuous transmission, 10MHz, 64QAM, High CH | LTE-Band4/Band2 |
| Final_test_mode_19 | Continuous transmission, 15MHz, 64QAM, Low CH  | LTE-Band4/Band2 |
| Final_test_mode_20 | Continuous transmission, 15MHz, 64QAM, Mid CH  | LTE-Band4/Band2 |
| Final_test_mode_21 | Continuous transmission, 15MHz, 64QAM, High CH | LTE-Band4/Band2 |
| Final_test_mode_22 | Continuous transmission, 20MHz, 64QAM, Low CH  | LTE-Band4/Band2 |
| Final_test_mode_23 | Continuous transmission, 20MHz, 64QAM, Mid CH  | LTE-Band4/Band2 |
| Final_test_mode_24 | Continuous transmission, 20MHz, 64QAM, High CH | LTE-Band4/Band2 |
| Remark: NONE       |                                                |                 |

## 6.4 EUT Photos - External



Top View



Bottom View



Front View



Rear View

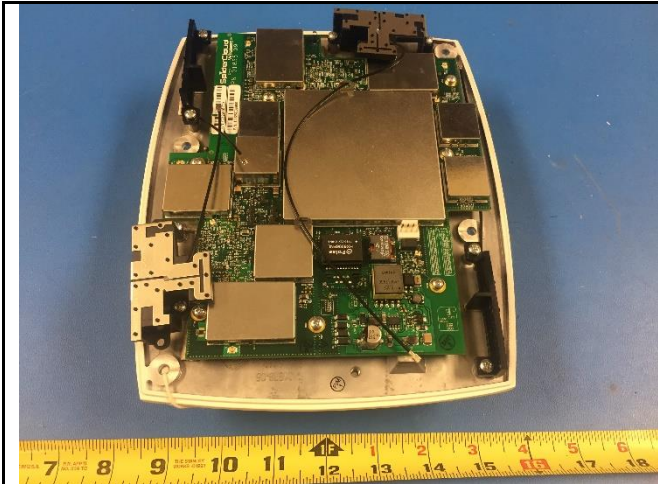


Left Side View

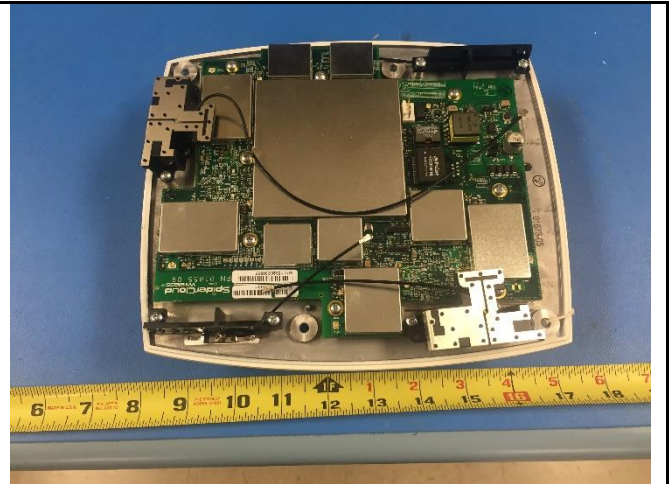


Right Side View

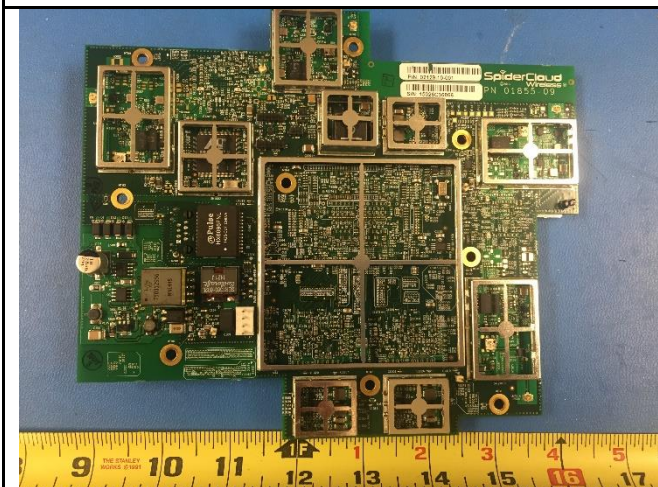
## 6.5 EUT Photos - Internal



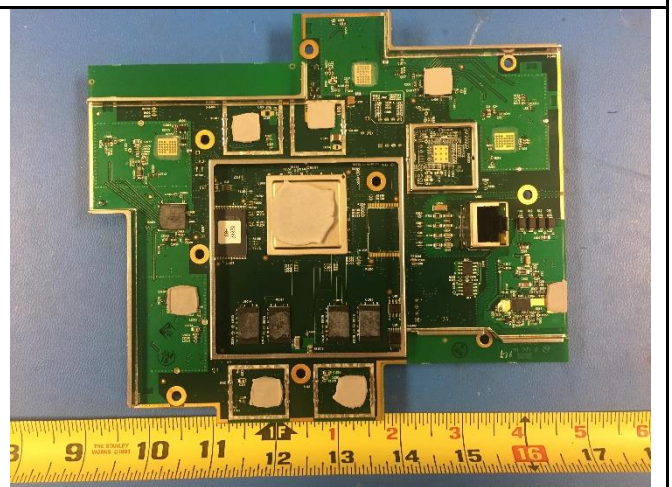
Top View Top Cover Off 1



Top View Top Cover Off 2

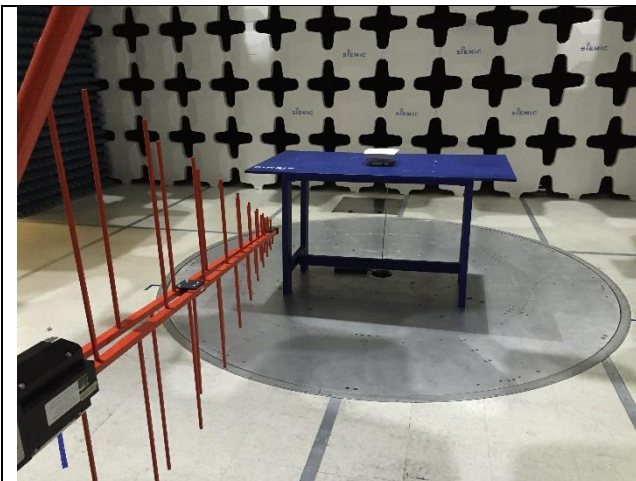


Main PCB - Top View



Main PCB - Bottom View

## 6.6 EUT Test Setup Photos



**Radiated Emissions (<1GHz) – Front View**



**Radiated Emissions (<1GHz) – Rear View**



**Radiated Emissions (>1GHz) – Front View**



**Radiated Emissions (>1GHz) – Rear View**

Note: The spurious emission in different EUT orientation was investigated, including the EUT standing up position and the laying down position. The EUT orientation shown in above setup photo is the worst case position.

## 7 Supporting Equipment/Software and cabling Description

### 7.1 Supporting Equipment

| Item | Supporting Equipment Description | Model        | Serial Number | Manufacturer | Note |
|------|----------------------------------|--------------|---------------|--------------|------|
| 1    | PoE Adatper                      | POE36U-1AT-R | P90212324A1   | Phihong      | -    |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |
|      |                                  |              |               |              |      |

### 7.2 Test Software Description

| Test Item  | Software | Description                                                   |
|------------|----------|---------------------------------------------------------------|
| RF testing | ePview   | Enable EUT continuous TX mode and change to different channel |
|            |          |                                                               |
|            |          |                                                               |
|            |          |                                                               |
|            |          |                                                               |

## 8 Test Summary

| Test Item                                      | Test standard                                                                                                                                                                                                                                                                                                                                          |                         | Test Method/Procedure |                 | Pass / Fail                                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|-----------------|--------------------------------------------------------------------------|
| E.R.P/ E.I.R.P                                 | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR27.50              | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Occupied Bandwidth                             | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR27.53              | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Peak-Average Ratio                             | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR27.50              | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Spurious and harmonic Emission at antenna port | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR2.1051, 47CFR27.53 | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Band Edge                                      | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR2.1053, 47CFR27.53 | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Radiated spurious and harmonic emission        | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR2.1053, 47CFR27.53 | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Frequency stability                            | FCC                                                                                                                                                                                                                                                                                                                                                    | 47CFR2.1053, 47CFR27.53 | FCC                   | TIA-603-D: 2010 | <input checked="" type="checkbox"/> Pass<br><input type="checkbox"/> N/A |
| Remark                                         | <ol style="list-style-type: none"> <li>All measurement uncertainties do not take into consideration for all presented test results.</li> <li>The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.</li> </ol> |                         |                       |                 |                                                                          |

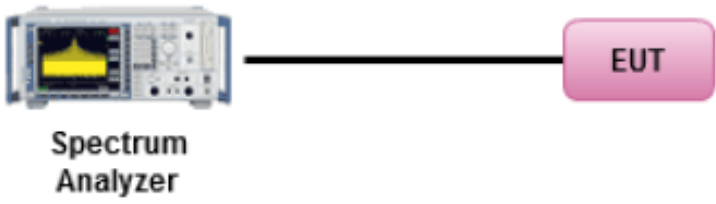
## 9 Measurement Uncertainty

| Test Item                                 | Frequency Range | Description                                                                                                                                     | Uncertainty   |
|-------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Band Edge and Radiated Spurious Emissions | 30MHz – 1GHz    | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| Band Edge and Radiated Spurious Emissions | 1GHz – 40GHz    | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +4.3dB/-4.1dB |

## 10 Measurements, Examination and Derived Results

### 10.1 RF Output Power

#### Requirement(s):

| Spec            | Item                                                                                                                                                                                                                                                                                                        | Requirement                                                                                                                                                                    | Applicable                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 47CFR 22.913(a) | -                                                                                                                                                                                                                                                                                                           | The maximum effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts.                                                              | <input type="checkbox"/>                                                   |
| 47CFR24.232     | -                                                                                                                                                                                                                                                                                                           | Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications. | <input type="checkbox"/>                                                   |
| 47CFR27.50      | -                                                                                                                                                                                                                                                                                                           | The maximum effective radiated power (ERP) of fixed and base station must not exceed 1000 Watts.                                                                               | <input checked="" type="checkbox"/>                                        |
| Test Setup      |  <p>The diagram illustrates the test setup. On the left is a Spectrum Analyzer with a yellow trace on its screen. A black line connects the Spectrum Analyzer to a pink rounded rectangle on the right labeled 'EUT'.</p> |                                                                                                                                                                                |                                                                            |
| Test Procedure  | <ul style="list-style-type: none"> <li>- EUT was set for low, mid, high channel with modulated mode and highest RF output power.</li> <li>- The spectrum analyzer was connected to the antenna terminal.</li> </ul>                                                                                         |                                                                                                                                                                                |                                                                            |
| Test Date       | 03/03/2014 – 03/10/2014<br>03/03/2015 – 04/13/2015<br>09/24/2015 – 09/30/2015                                                                                                                                                                                                                               | Environmental condition                                                                                                                                                        | Temperature 22°C<br>Relative Humidity 48%<br>Atmospheric Pressure 1008mbar |
| Remark          | NONE                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |                                                                            |
| Result          | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                      |                                                                                                                                                                                |                                                                            |

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

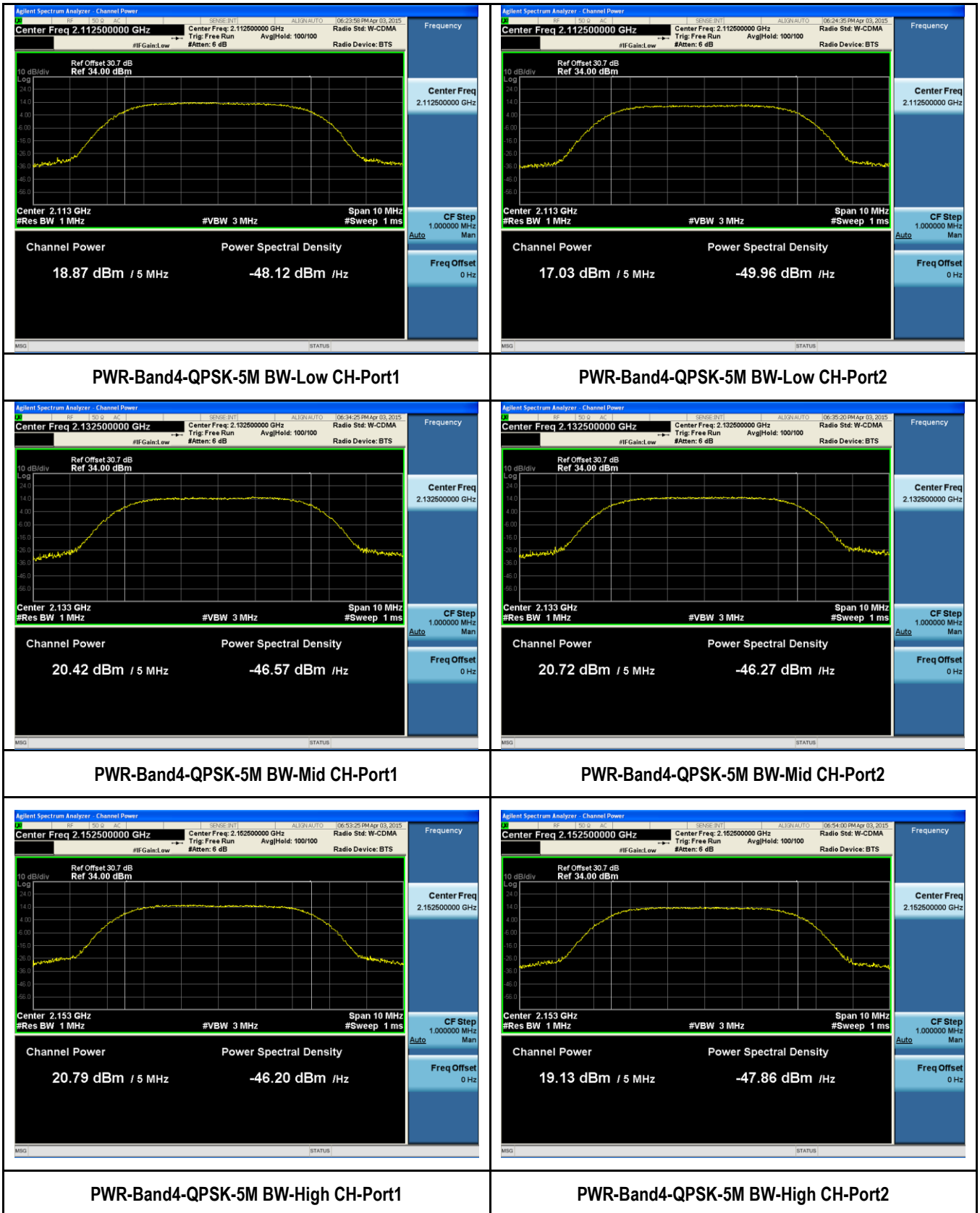
Test Data for LTE band 4

| Type            | Channel | Frequency (MHz) | Measured PW –Port 1(dBm) | Measured PW –Port 2(dBm) | Combined Power (dBm) | Antenna Gain (dBi) | E.I.R.P (dBm) |
|-----------------|---------|-----------------|--------------------------|--------------------------|----------------------|--------------------|---------------|
| 5MHz BW, QPSK   | Low     | 2112.5          | 18.87                    | 17.03                    | 21.06                | 3                  | 24.06         |
|                 | Mid     | 2132.5          | 20.42                    | 20.72                    | 23.58                | 3                  | 26.58         |
|                 | High    | 2152.5          | 20.79                    | 19.13                    | 23.05                | 3                  | 26.05         |
| 5MHz BW, 64QAM  | Low     | 2112.5          | 18.81                    | 17.07                    | 21.04                | 3                  | 24.04         |
|                 | Mid     | 2132.5          | 20.48                    | 20.81                    | 23.66                | 3                  | 26.66         |
|                 | High    | 2152.5          | 20.67                    | 19.18                    | 23.00                | 3                  | 26.00         |
| 10MHz BW, QPSK  | Low     | 2115            | 20.58                    | 20.69                    | 23.65                | 3                  | 26.65         |
|                 | Mid     | 2132            | 20.87                    | 21.09                    | 23.99                | 3                  | 26.99         |
|                 | High    | 2150            | 21.23                    | 20.97                    | 24.11                | 3                  | 27.11         |
| 10MHz BW, 64QAM | Low     | 2115            | 21.18                    | 21.25                    | 24.23                | 3                  | 27.23         |
|                 | Mid     | 2132            | 21.06                    | 21.19                    | 24.14                | 3                  | 27.14         |
|                 | High    | 2150            | 20.97                    | 20.69                    | 23.84                | 3                  | 26.84         |
| 15MHz BW, QPSK  | Low     | 2117.5          | 19.56                    | 18.83                    | 22.22                | 3                  | 25.22         |
|                 | Mid     | 2132.5          | 21.11                    | 21.25                    | 24.19                | 3                  | 27.19         |
|                 | High    | 2147.5          | 22.14                    | 20.49                    | 24.40                | 3                  | 27.40         |
| 15MHz BW, 64QAM | Low     | 2117.5          | 19.47                    | 18.71                    | 22.12                | 3                  | 25.12         |
|                 | Mid     | 2132.5          | 21.13                    | 21.29                    | 24.22                | 3                  | 27.22         |
|                 | High    | 2147.5          | 22.13                    | 20.49                    | 24.40                | 3                  | 27.40         |
| 20MHz BW, QPSK  | Low     | 2120            | 20.81                    | 21.13                    | 23.98                | 3                  | 26.98         |
|                 | Mid     | 2132            | 21.27                    | 21.40                    | 24.35                | 3                  | 27.35         |
|                 | High    | 2145            | 21.00                    | 20.61                    | 23.82                | 3                  | 26.82         |
| 20MHz BW, 64QAM | Low     | 2120            | 20.93                    | 21.26                    | 24.11                | 3                  | 27.11         |
|                 | Mid     | 2132            | 20.87                    | 21.01                    | 23.95                | 3                  | 26.95         |
|                 | High    | 2145            | 21.06                    | 20.62                    | 23.86                | 3                  | 26.86         |

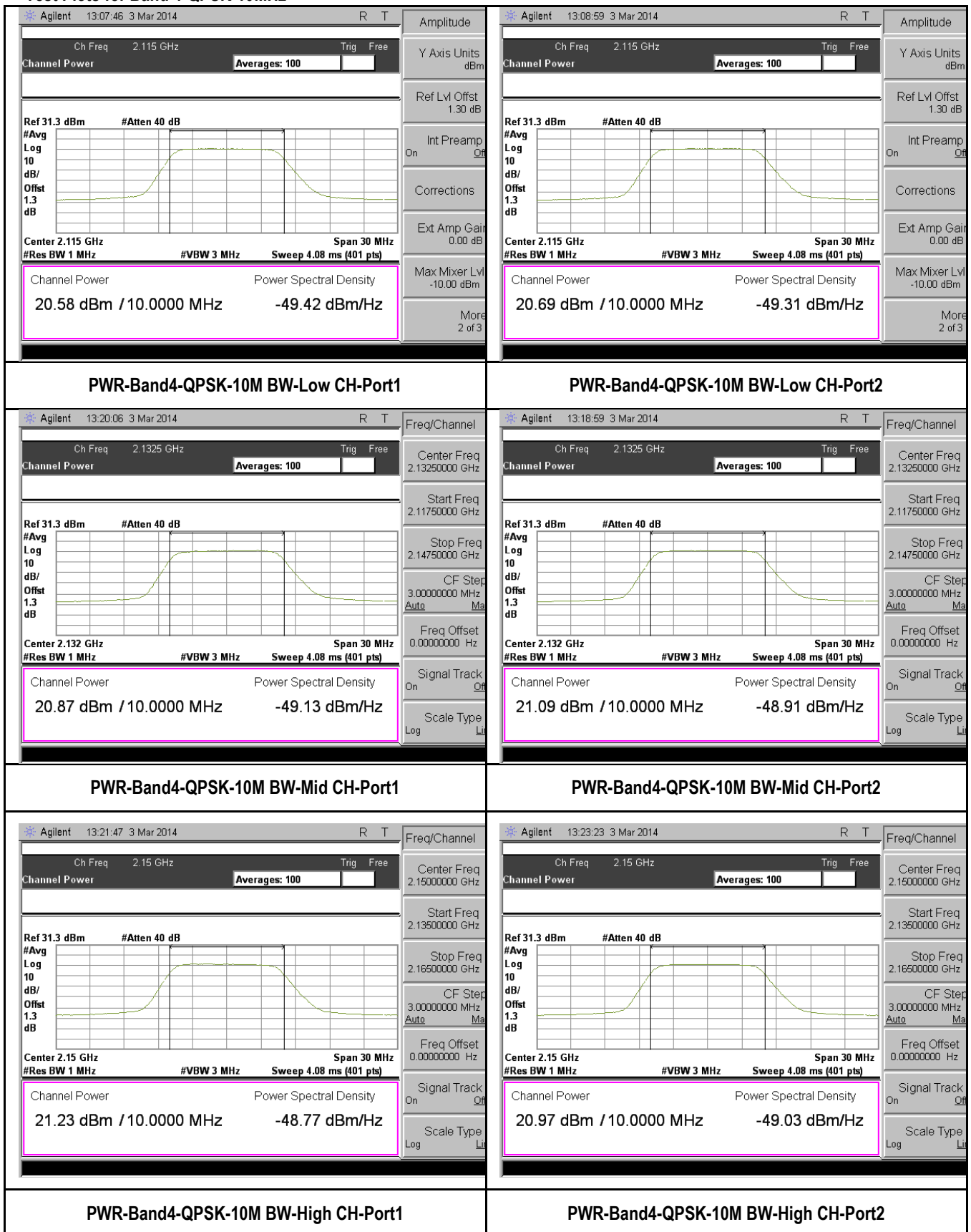
Test Data for LTE band 2

| Type            | Channel | Frequency (MHz) | Measured PW –Port 1(dBm) | Measured PW –Port 2(dBm) | Combined Power (dBm) | Antenna Gain (dBi) | E.I.R.P (dBm) |
|-----------------|---------|-----------------|--------------------------|--------------------------|----------------------|--------------------|---------------|
| 5MHz BW, QPSK   | Low     | 1932.5          | 21.25                    | 21.23                    | 24.25                | 3                  | 27.25         |
|                 | Mid     | 1960.0          | 20.88                    | 20.89                    | 23.90                | 3                  | 26.90         |
|                 | High    | 1987.5          | 20.82                    | 20.78                    | 23.81                | 3                  | 26.81         |
| 5MHz BW, 64QAM  | Low     | 1932.5          | 20.80                    | 20.84                    | 23.83                | 3                  | 26.83         |
|                 | Mid     | 1960.0          | 20.43                    | 20.45                    | 23.45                | 3                  | 26.45         |
|                 | High    | 1987.5          | 20.78                    | 20.84                    | 23.82                | 3                  | 26.82         |
| 10MHz BW, QPSK  | Low     | 1935.0          | 21.52                    | 21.63                    | 24.59                | 3                  | 27.59         |
|                 | Mid     | 1960.0          | 21.06                    | 21.02                    | 24.05                | 3                  | 27.05         |
|                 | High    | 1985.0          | 20.70                    | 20.71                    | 23.72                | 3                  | 26.72         |
| 10MHz BW, 64QAM | Low     | 1935.0          | 21.05                    | 21.05                    | 24.06                | 3                  | 27.06         |
|                 | Mid     | 1960.0          | 20.52                    | 20.54                    | 23.54                | 3                  | 26.54         |
|                 | High    | 1985.0          | 20.10                    | 20.07                    | 23.10                | 3                  | 26.10         |
| 15MHz BW, QPSK  | Low     | 1937.5          | 21.56                    | 21.55                    | 24.57                | 3                  | 27.57         |
|                 | Mid     | 1960.0          | 20.88                    | 20.87                    | 23.89                | 3                  | 26.89         |
|                 | High    | 1982.5          | 20.33                    | 20.30                    | 23.33                | 3                  | 26.33         |
| 15MHz BW, 64QAM | Low     | 1937.5          | 21.07                    | 21.05                    | 24.07                | 3                  | 27.07         |
|                 | Mid     | 1960.0          | 20.39                    | 20.38                    | 23.40                | 3                  | 26.40         |
|                 | High    | 1982.5          | 20.82                    | 20.84                    | 23.84                | 3                  | 26.84         |
| 20MHz BW, QPSK  | Low     | 1940.0          | 20.93                    | 20.84                    | 23.90                | 3                  | 26.90         |
|                 | Mid     | 1960.0          | 21.07                    | 21.13                    | 24.11                | 3                  | 27.11         |
|                 | High    | 1980.0          | 20.72                    | 20.70                    | 23.72                | 3                  | 26.72         |
| 20MHz BW, 64QAM | Low     | 1940.0          | 21.27                    | 21.28                    | 24.29                | 3                  | 27.29         |
|                 | Mid     | 1960.0          | 21.63                    | 21.58                    | 24.62                | 3                  | 27.62         |
|                 | High    | 1980.0          | 21.25                    | 21.19                    | 24.23                | 3                  | 27.23         |

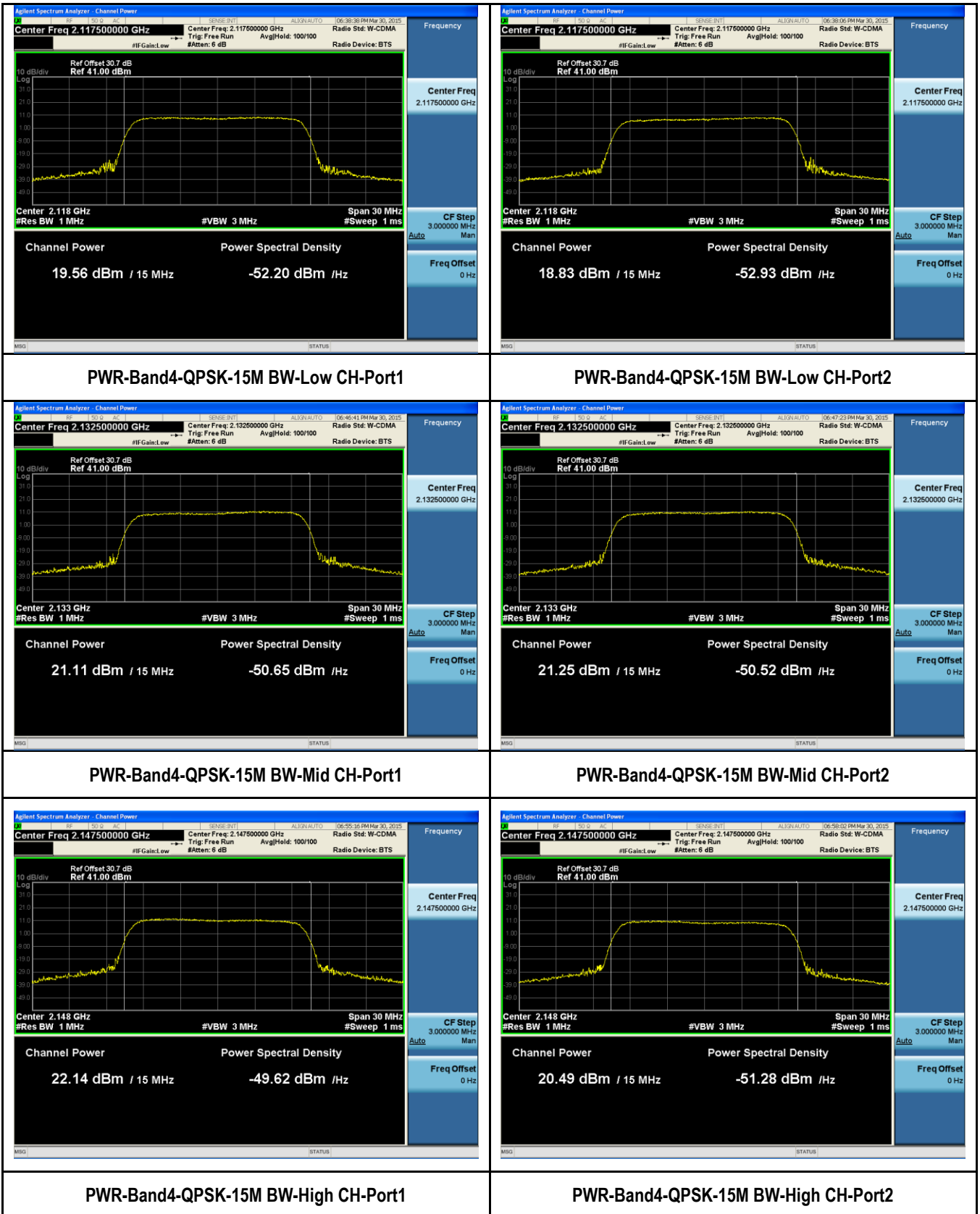
### Test Plots for Band 4-QPSK-5MHz



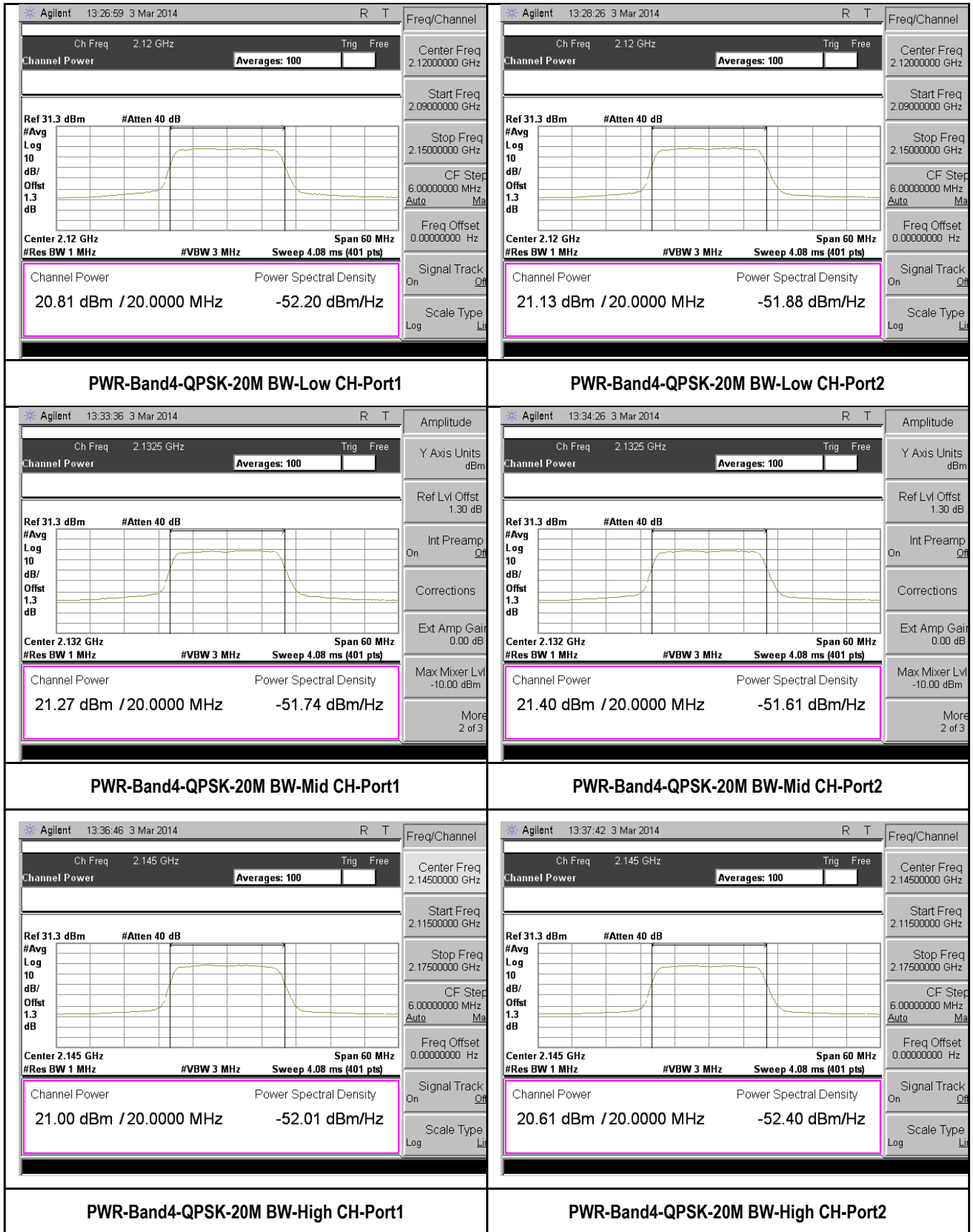
### Test Plots for Band 4-QPSK-10MHz



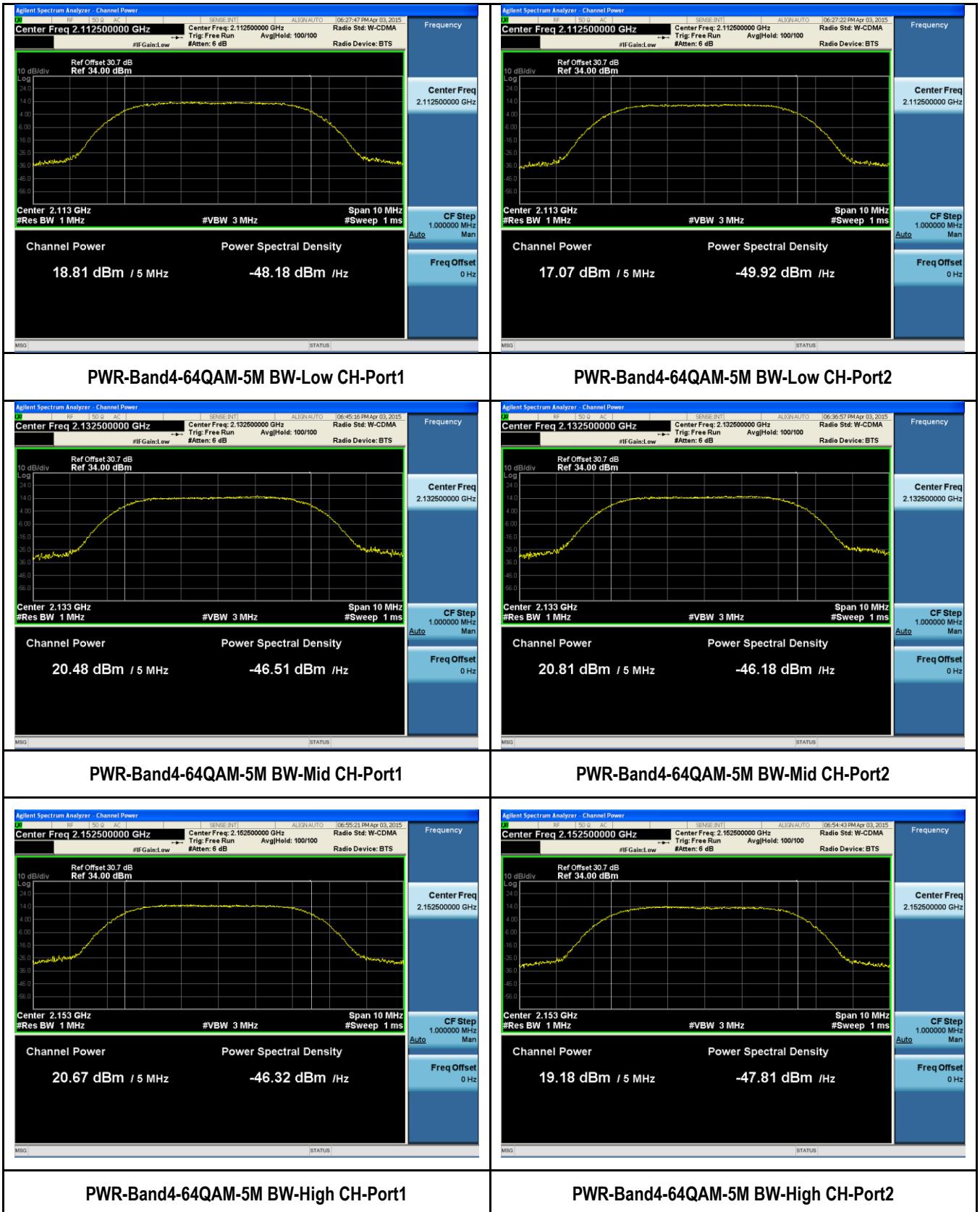
### Test Plots for Band 4-QPSK-15MHz



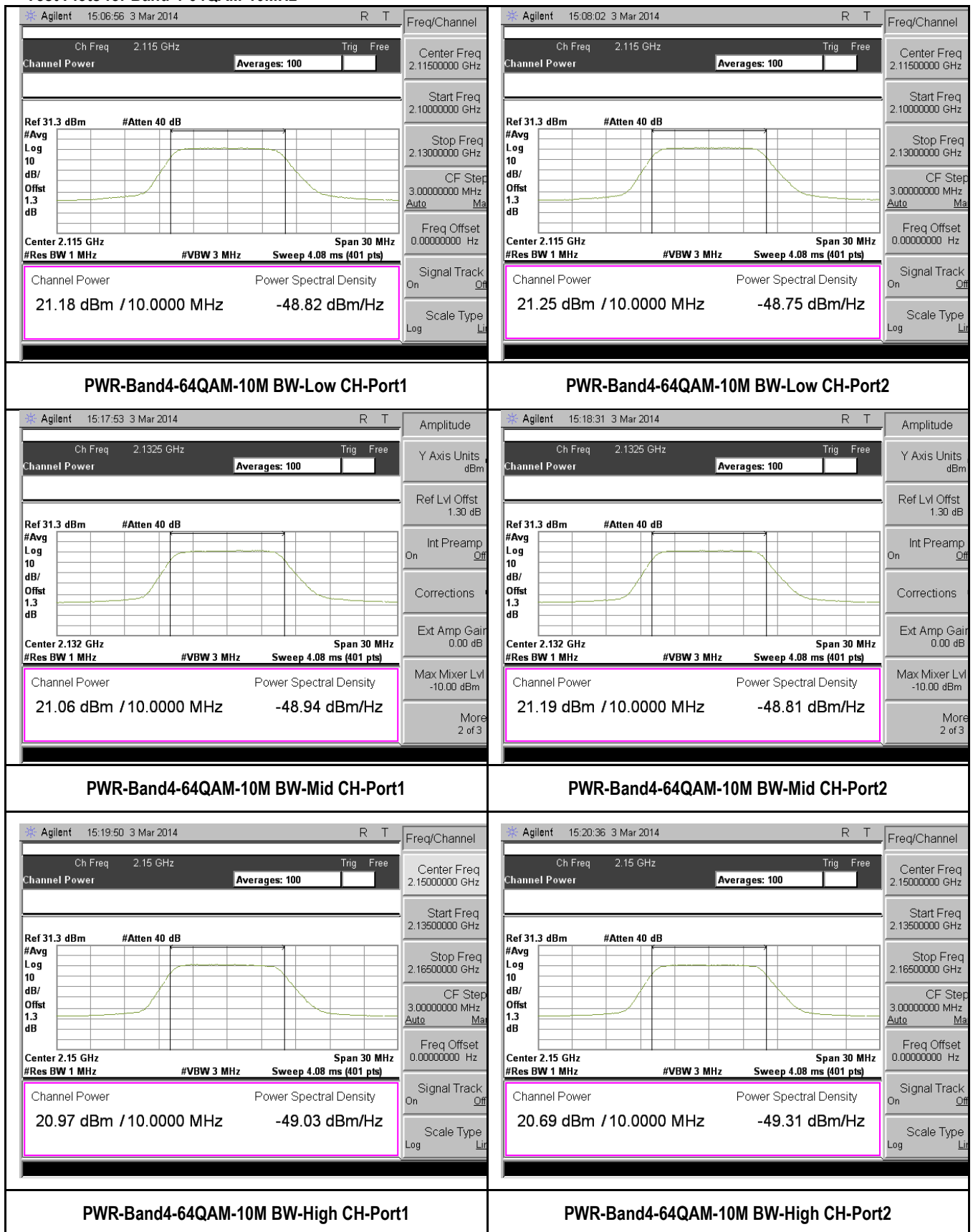
### Test Plots for Band 4-QPSK-20MHz



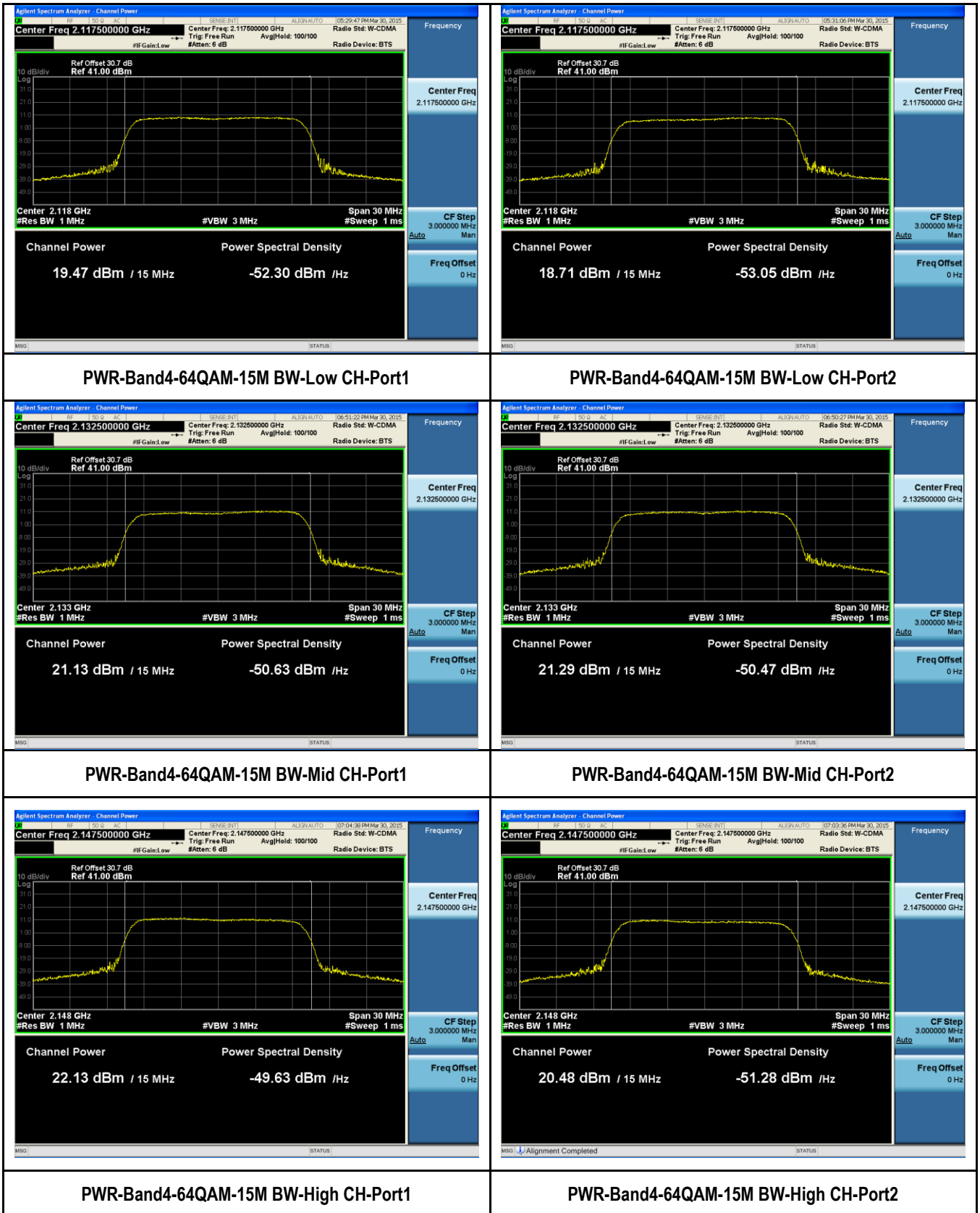
### Test Plots for Band 4-64QAM-5MHz



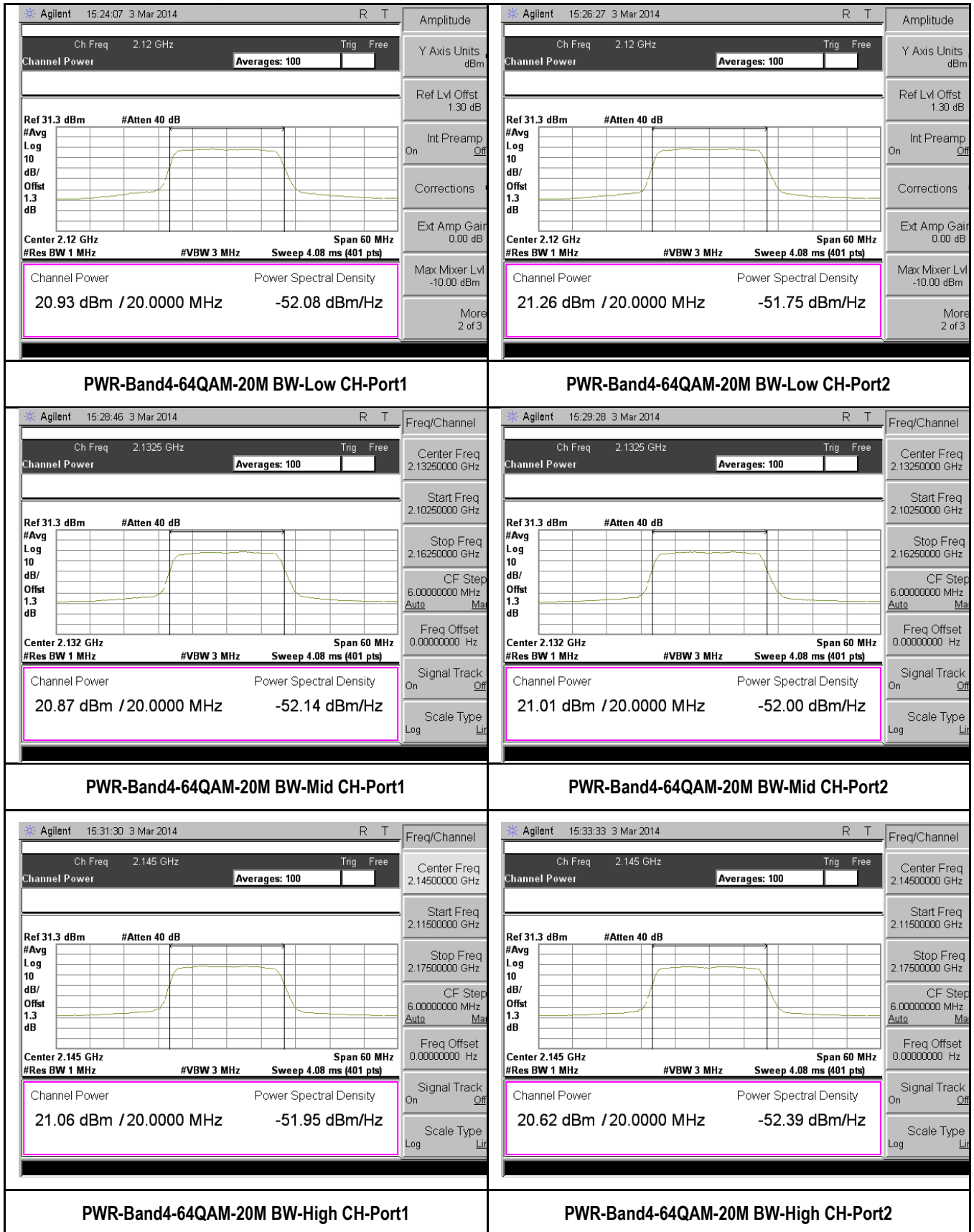
### Test Plots for Band 4-64QAM-10MHz



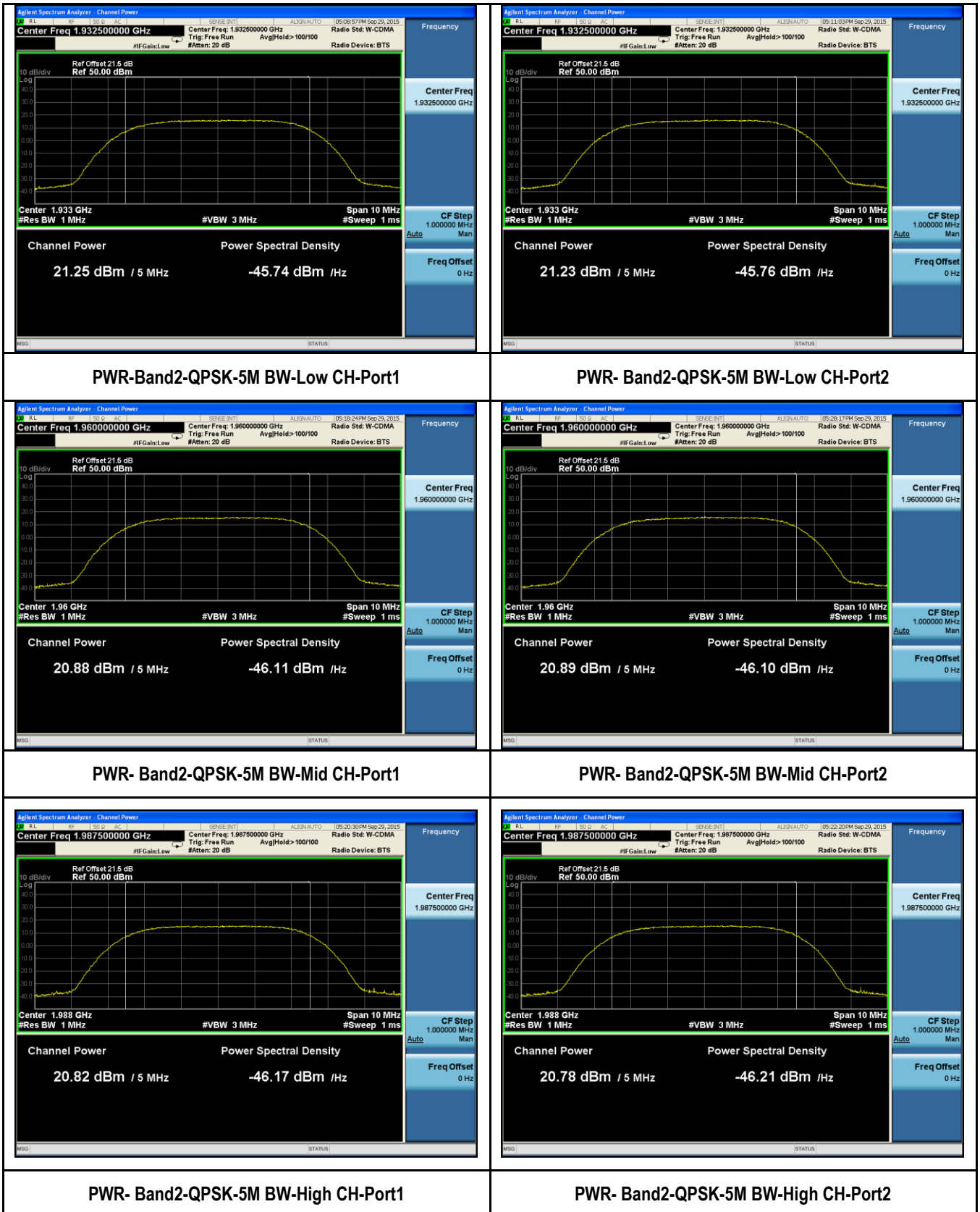
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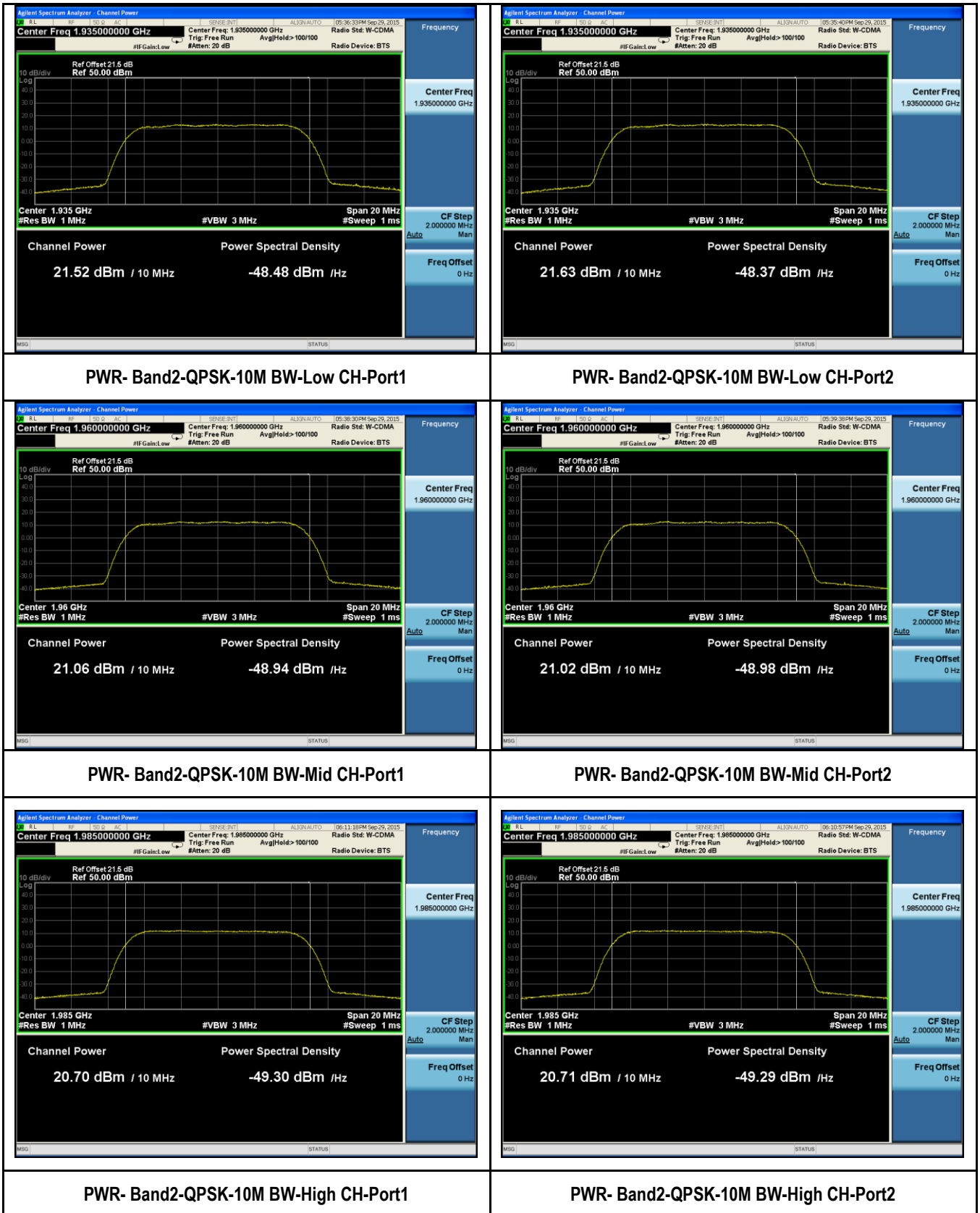
### Test Plots for Band 4-64QAM-20MHz



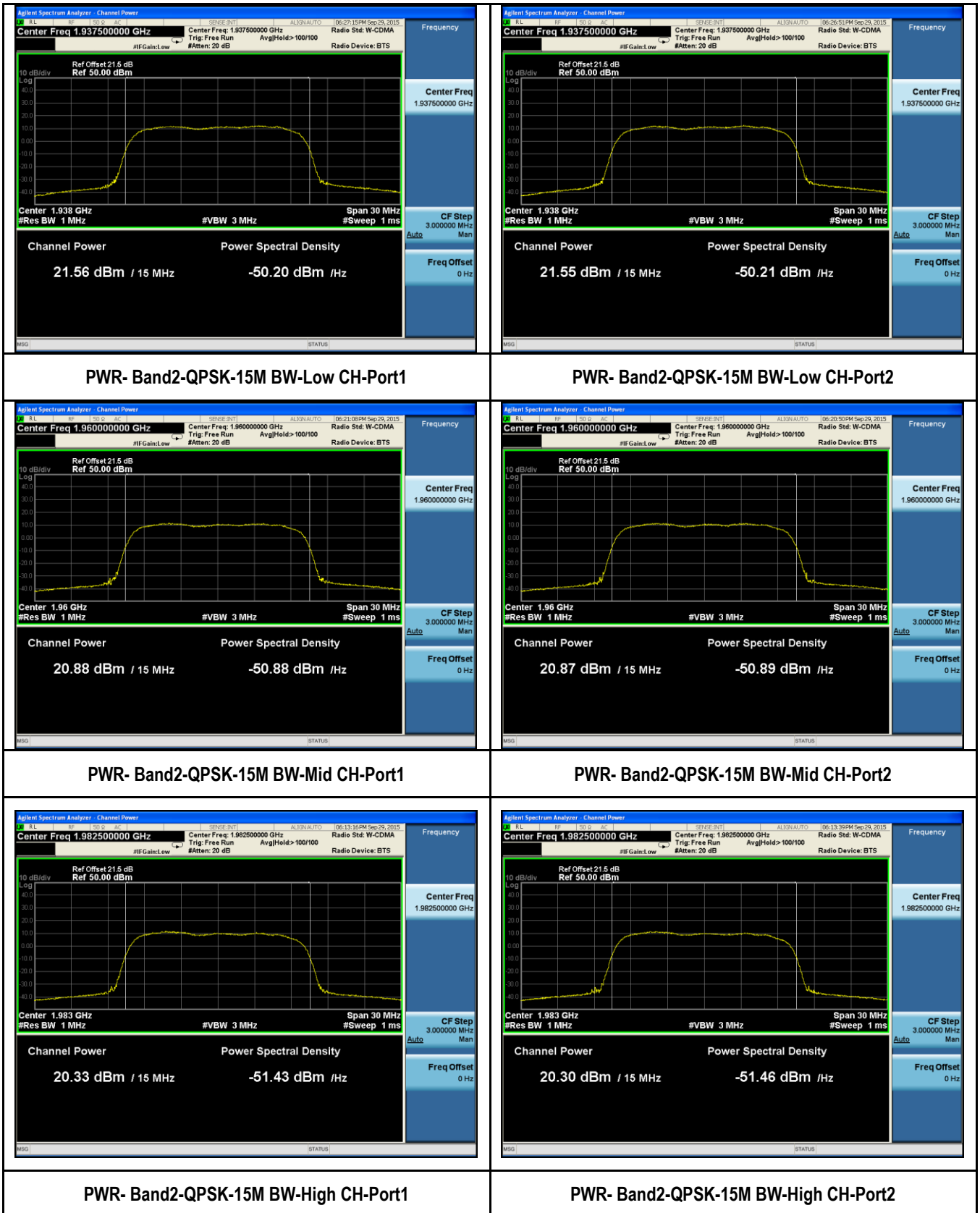
### Test Plots for Band 2-QPSK-5MHz



### Test Plots for Band 2-QPSK-10MHz



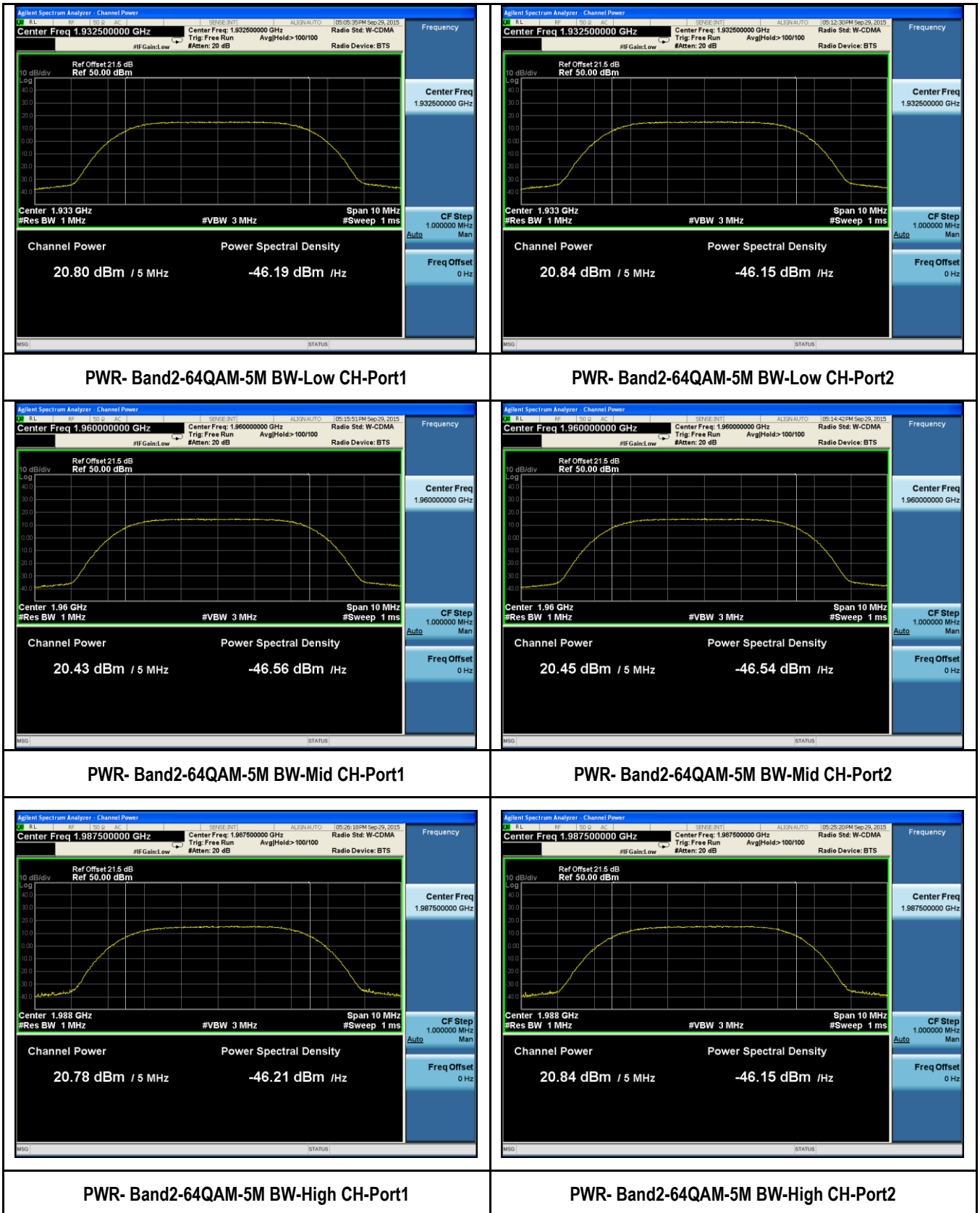
### Test Plots for Band 2-QPSK-15MHz



### Test Plots for Band 2-QPSK-20MHz



### Test Plots for Band 2-64QAM-5MHz



### Test Plots for Band 2-64QAM-10MHz

