

# FCC CFR47 PART 22H, 24E, 27 CERTIFICATION TEST REPORT

## FCC ID: 2ATQIW3

**Product:** Smart Phone

**Trade Mark:** Wings

**Model Number:** W3

**Family Model:** N/A

**Report No.:** S19050903502006

### Prepared for

Wings Mobile Telecom SL

c/Beethoven 15, piso 4, Barcelona, Spain

### Prepared by

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Wings Mobile Telecom SL

Address..... : c/Beethoven 15, piso 4, Barcelona, Spain

**Manufacturer's Name**..... : HK REXSO COM TECH CO., LIMITED

Address..... : UNIT 04, 7/F BRIGHT WAY TOWER NO 33 MONG KOK RD KL,  
HONGKONG

Product name..... : Smart Phone

Model and/or type reference .. : W3

Family Model: N/A

**Standards**..... : FCC CFR 47 Part 22H, Part 24E, Part 27

Test procedure ..... ANSI C63.26:2015  
ANSI/TIA-603-E-2016

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test** .....

Date (s) of performance of tests..... 14 May. 2019 ~ 27 Jun. 2019

Date of Issue ..... 28 Jun. 2019

Test Result..... **Pass**

Testing Engineer :



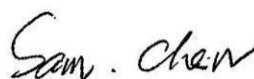
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Authorized Signatory :



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## 1. GENERAL INFORMATION

### 1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

|                                                                                                                                                          |                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Designation:                                                                                                                                     | Smart Phone                                                                                                                                                                                                                                                 |
| Trade Mark                                                                                                                                               | Wings                                                                                                                                                                                                                                                       |
| Model Name                                                                                                                                               | W3                                                                                                                                                                                                                                                          |
| Family Model                                                                                                                                             | N/A                                                                                                                                                                                                                                                         |
| Model Difference                                                                                                                                         | N/A                                                                                                                                                                                                                                                         |
| FCC ID:                                                                                                                                                  | 2ATQIW3                                                                                                                                                                                                                                                     |
| Frequency Bands:                                                                                                                                         | U.S. Bands:<br><input checked="" type="checkbox"/> LTE-FDD Band 4,5,7; <input checked="" type="checkbox"/> LTE-TDD Band 41                                                                                                                                  |
| Frequency Range:                                                                                                                                         | LTE-FDD Band 4 Uplink: 1710MHz-1755MHz,<br>Downlink: 2110MHz-2155MHz;<br>LTE FDD Band 5 Uplink: 824MHz-849MHz,<br>Downlink: 869MHz-894MHz;<br>LTE-FDD Band 7 Uplink: 2500MHz-2570MHz,<br>Downlink: 2620MHz-2690MHz;<br>LTE TDD Band 41 <small>Note2</small> |
| Type of Modulation:                                                                                                                                      | QPSK/16QAM                                                                                                                                                                                                                                                  |
| SIM Card                                                                                                                                                 | SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.                                                                                                                                                             |
| Antenna:                                                                                                                                                 | PIFA Antenna                                                                                                                                                                                                                                                |
| Antenna gain:                                                                                                                                            | Band 4: 2.11dBi; Band 5: -5.47 dBi; Band 7: -0.17 dBi; Band 41: -0.13 dBi;                                                                                                                                                                                  |
| Power Supply:                                                                                                                                            | <input checked="" type="checkbox"/> DC supply:<br>DC 3.85V/3080mAh from Battery or DC 5V from USB Port.                                                                                                                                                     |
| Adapter:                                                                                                                                                 | <input checked="" type="checkbox"/> Adapter supply:<br>Model: ES568-U050200XYC<br>Input: 100-240V~50/60Hz 0.3A<br>Output: 5V $\overline{\text{---}}$ 2000mA                                                                                                 |
| Extreme Vol. Limits:                                                                                                                                     | DC 3.2V to DC 4.4V (Nominal DC 3.85V) (Note 1)                                                                                                                                                                                                              |
| HW Version                                                                                                                                               | E6202-MB-P2.0                                                                                                                                                                                                                                               |
| SW Version                                                                                                                                               | E2009A_WINGS_V01_20190423                                                                                                                                                                                                                                   |
| ** Note1: The High Voltage DC 4.4V and Low Voltage 3.2V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage. |                                                                                                                                                                                                                                                             |

2. Frequency Range:

| Test Frequency ID | Bandwidth(MHz) | EARFCN | Frequency (UL and DL) (MHz) |
|-------------------|----------------|--------|-----------------------------|
| Low Range         | 5              | 40265  | 2557.5                      |
|                   | 10             | 40290  | 2560                        |
|                   | 15             | 40315  | 2562.5                      |
|                   | 20             | 40340  | 2565                        |
| Mid Range         | 5/10/15/20     | 40740  | 2605                        |
| High Range        | 5              | 41215  | 2652.5                      |
|                   | 10             | 41190  | 2650                        |
|                   | 15             | 41165  | 2648.5                      |
|                   | 20             | 41140  | 2645                        |

## 1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ATQIW3** filing to comply with the FCC Part 22H&24E &27.

## 1.3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-E-2016, FCC CFR 47 Part 2, Part 22, Part 24, Part 27, ANSI C63.26:2015.

## 1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

ShenZhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R.China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.26:2015& ANSI C63.4: 2014.

FCC Registration No.:463705

IC Registration No.:9270A-1,

CNAS Registration No.:L5516

## MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item                                                                     | Uncertainty |
|-----|--------------------------------------------------------------------------|-------------|
| 1   | Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 2.5dB       |
|     |                                                                          |             |

## 1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

## 1.6 WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of: Band 4, Band 5, Band 7, Band 41.

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations the worst case was determined to be at X orientation for all LTE bands.

## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

### 2.3 CONFIGURATION OF EUT SYSTEM

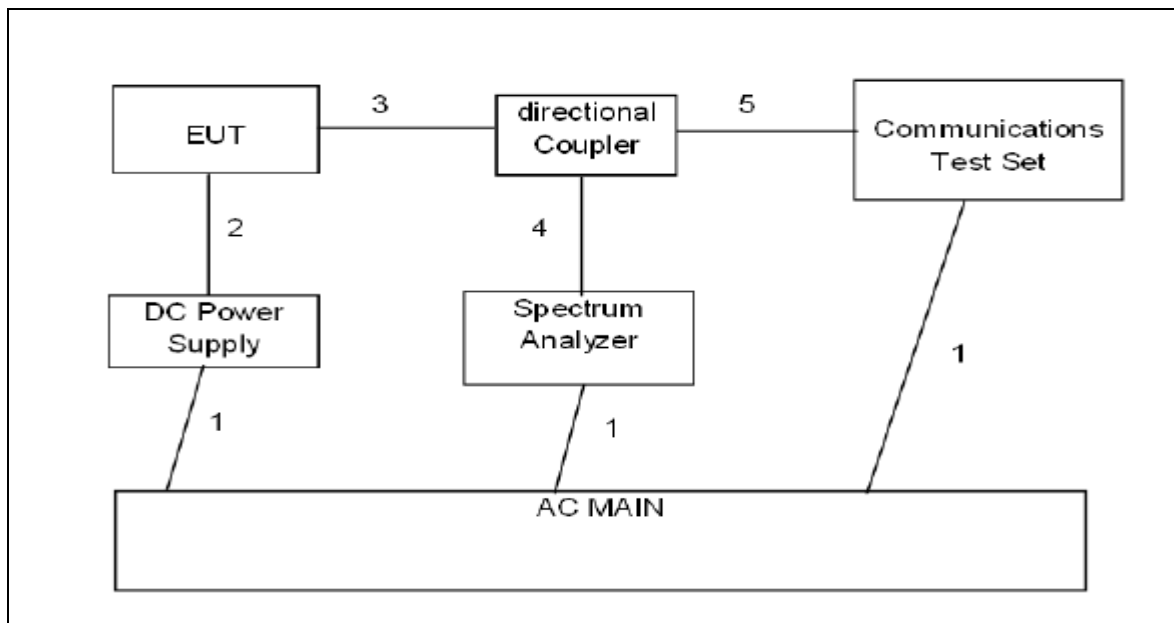
Table 2-1 Equipment Used in EUT System

| Item | Equipment   | Model No. | ID or Specification | Note |
|------|-------------|-----------|---------------------|------|
| 1    | Smart Phone | W3        | FCC ID: 2ATQIW3     | EUT  |
|      |             |           |                     |      |
|      |             |           |                     |      |

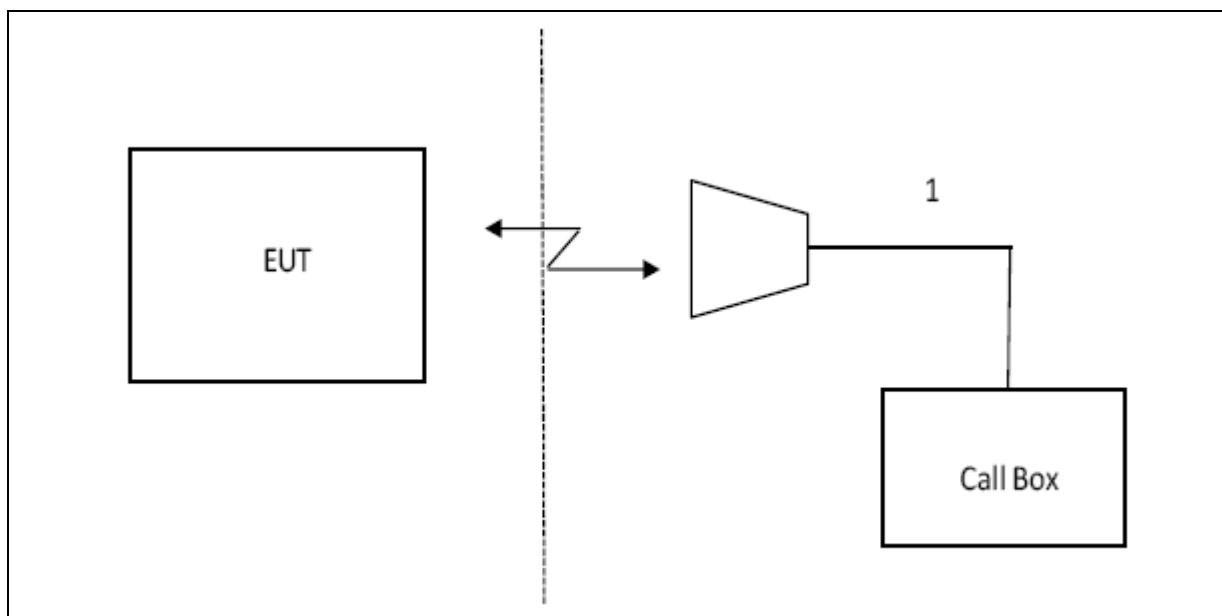
*Note: All the accessories have been used during the test.  
the following "EUT" in setup diagram means EUT system.*

## 2.4 TEST SETUP

### CONDUCTED SETUP DIAGRAM FOR TESTS



### RADIATED SETUP DIAGRAM FOR TESTS



### 3.TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| NAME OF EQUIPMENT    | MANUFACTURER      | MODEL       | SERIAL NUMBER | NEXT CAL. DATE |
|----------------------|-------------------|-------------|---------------|----------------|
| SPECTRUM ANALYZER    | AGILENT           | N9020A      | MY49100060    | 2019.10.07     |
| TEST RECEIVER        | R&S               | ESCI        | 101318        | 2020.05.12     |
| COMMUNICATION TESTER | R&S               | CMU200      | 105747        | 2020.05.12     |
| COMMUNICATION TESTER | R&S               | CMW500      | 148500        | 2020.05.12     |
| TEST RECEIVER        | R&S               | FCKL1528    | A0304230      | 2020.05.12     |
| LISN                 | SCHWARZBECK       | NSLK8127    | A0304233      | 2020.05.12     |
| CLIMATE CHAMBER      | ALBATROSS         | --          | --            | 2020.05.17     |
| Loop Antenna         | Daze              | ZN30900N    | SEL0097       | 2020.05.12     |
| Biological Antenna   | A.H. Systems Inc. | SAS-521-4   | N/A           | 2020.05.12     |
| Horn Antenna         | EM                | EM-AH-10180 | 2011071402    | 2020.04.14     |
| DC Power             | N/A               | PS-6005D    | 20170402923   | 2020.05.12     |

## 4. OUTPUT POWER

### 4.1 OUTPUT POWER MEASUREMENT

#### LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set. The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3**

| Modulation | Channel bandwidth / Transmission bandwidth (RB) |         |       |        |        |        | MPR (dB) |
|------------|-------------------------------------------------|---------|-------|--------|--------|--------|----------|
|            | 1.4 MHz                                         | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz |          |
| QPSK       | > 5                                             | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 1      |
| 16 QAM     | ≤ 5                                             | ≤ 4     | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | ≤ 1      |
| 16 QAM     | > 5                                             | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 2      |

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01".3

**Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)**

| Network Signalling value | Requirements (sub-clause) | E-UTRA Band              | Channel bandwidth (MHz) | Resources Blocks ( $N_{RB}$ ) | A-MPR (dB)    |
|--------------------------|---------------------------|--------------------------|-------------------------|-------------------------------|---------------|
| NS_01                    | 6.6.2.1.1                 | Table 5.5-1              | 1.4, 3, 5, 10, 15, 20   | Table 5.6-1                   | NA            |
| NS_03                    | 6.6.2.2.1                 | 2, 4, 10, 23, 25, 35, 36 | 3                       | >5                            | $\leq 1$      |
|                          |                           |                          | 5                       | >6                            | $\leq 1$      |
|                          |                           |                          | 10                      | >6                            | $\leq 1$      |
|                          |                           |                          | 15                      | >8                            | $\leq 1$      |
|                          |                           |                          | 20                      | >10                           | $\leq 1$      |
| NS_04                    | 6.6.2.2.2                 | 41                       | 5                       | >6                            | $\leq 1$      |
|                          |                           |                          | 10, 15, 20              | See Table 6.2.4-4             |               |
| NS_05                    | 6.6.3.3.1                 | 1                        | 10, 15, 20              | $\geq 50$                     | $\leq 1$      |
| NS_06                    | 6.6.2.2.3                 | 12, 13, 14, 17           | 1.4, 3, 5, 10           | Table 5.6-1                   | n/a           |
| NS_07                    | 6.6.2.2.3<br>6.6.3.3.2    | 13                       | 10                      | Table 6.2.4-2                 | Table 6.2.4-2 |
| NS_08                    | 6.6.3.3.3                 | 19                       | 10, 15                  | > 44                          | $\leq 3$      |
| NS_09                    | 6.6.3.3.4                 | 21                       | 10, 15                  | > 40                          | $\leq 1$      |
|                          |                           |                          |                         | > 55                          | $\leq 2$      |
| NS_10                    |                           | 20                       | 15, 20                  | Table 6.2.4-3                 | Table 6.2.4-3 |
| NS_11                    | 6.6.2.2.1                 | 23 <sup>1</sup>          | 1.4, 3, 5, 10           | Table 6.2.4-5                 | Table 6.2.4-5 |
| ..                       |                           |                          |                         |                               |               |
| NS_32                    | -                         | -                        | -                       | -                             | -             |

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

## 4.2 LTE BAND 4

### OUTPUT POWER FOR LTE BAND 4 (1.4MHZ)

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 4 | 1.4MHz     | 19957   | 1710.7          | QPSK       | 1                | Low       | 23.20              | 27.60           |
|        |            |         |                 |            | 1                | Mid       | 23.37              | 27.70           |
|        |            |         |                 |            | 1                | High      | 23.15              | 27.56           |
|        |            |         |                 |            | 3                | Low       | 23.26              | 27.68           |
|        |            |         |                 |            | 3                | High      | 23.29              | 27.48           |
|        |            |         |                 |            | 6                | Low       | 22.23              | 28.15           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.40              | 27.55           |
|        |            |         |                 |            | 1                | Mid       | 22.57              | 27.57           |
|        |            |         |                 |            | 1                | High      | 22.54              | 27.51           |
|        |            |         |                 |            | 3                | Low       | 22.88              | 27.79           |
|        |            |         |                 |            | 3                | High      | 22.85              | 27.83           |
|        |            |         |                 |            | 6                | Low       | 21.75              | 28.25           |
|        | 1.4MHz     | 20175   | 1732.5          | QPSK       | 1                | Low       | 23.75              | 28.61           |
|        |            |         |                 |            | 1                | Mid       | 23.45              | 28.57           |
|        |            |         |                 |            | 1                | High      | 23.23              | 28.32           |
|        |            |         |                 |            | 3                | Low       | 23.31              | 28.76           |
|        |            |         |                 |            | 3                | High      | 23.36              | 28.81           |
|        |            |         |                 |            | 6                | Low       | 22.29              | 28.19           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.21              | 27.60           |
|        |            |         |                 |            | 1                | Mid       | 22.44              | 27.84           |
|        |            |         |                 |            | 1                | High      | 22.26              | 27.65           |
|        |            |         |                 |            | 3                | Low       | 22.39              | 28.38           |
|        |            |         |                 |            | 3                | High      | 22.38              | 28.44           |
|        |            |         |                 |            | 6                | Low       | 21.25              | 28.34           |
|        | 1.4MHz     | 20393   | 1754.3          | QPSK       | 1                | Low       | 23.14              | 27.25           |
|        |            |         |                 |            | 1                | Mid       | 23.38              | 27.42           |
|        |            |         |                 |            | 1                | High      | 23.14              | 27.29           |
|        |            |         |                 |            | 3                | Low       | 23.26              | 27.41           |
|        |            |         |                 |            | 3                | High      | 23.18              | 27.33           |
|        |            |         |                 |            | 6                | Low       | 22.23              | 27.41           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.27              | 26.72           |
|        |            |         |                 |            | 1                | Mid       | 22.46              | 26.94           |
|        |            |         |                 |            | 1                | High      | 22.26              | 26.73           |
|        |            |         |                 |            | 3                | Low       | 22.13              | 27.36           |
|        |            |         |                 |            | 3                | High      | 22.22              | 27.44           |
|        |            |         |                 |            | 6                | Low       | 21.32              | 27.69           |

**OUTPUT POWER FOR LTE BAND 4 (3.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 4 | 3.0 MHz    | 19965   | 1711.5          | QPSK       | 1                | Low       | 23.44              | 27.58           |
|        |            |         |                 |            | 1                | Mid       | 23.35              | 27.49           |
|        |            |         |                 |            | 1                | High      | 23.23              | 27.37           |
|        |            |         |                 |            | 8                | Low       | 22.73              | 27.85           |
|        |            |         |                 |            | 8                | High      | 22.71              | 27.63           |
|        |            |         |                 |            | 15               | Low       | 22.70              | 28.00           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.24              | 27.84           |
|        |            |         |                 |            | 1                | Mid       | 22.18              | 27.83           |
|        |            |         |                 |            | 1                | High      | 22.17              | 27.75           |
|        |            |         |                 |            | 8                | Low       | 21.86              | 27.77           |
|        |            |         |                 |            | 8                | High      | 21.86              | 27.65           |
|        |            |         |                 |            | 15               | Low       | 21.76              | 27.89           |
|        | 3.0 MHz    | 20175   | 1732.5          | QPSK       | 1                | Low       | 23.79              | 28.59           |
|        |            |         |                 |            | 1                | Mid       | 23.26              | 28.34           |
|        |            |         |                 |            | 1                | High      | 23.25              | 28.39           |
|        |            |         |                 |            | 8                | Low       | 22.27              | 28.42           |
|        |            |         |                 |            | 8                | High      | 22.26              | 28.30           |
|        |            |         |                 |            | 15               | Low       | 22.28              | 28.87           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.33              | 27.63           |
|        |            |         |                 |            | 1                | Mid       | 22.26              | 27.71           |
|        |            |         |                 |            | 1                | High      | 22.28              | 27.70           |
|        |            |         |                 |            | 8                | Low       | 21.35              | 27.97           |
|        |            |         |                 |            | 8                | High      | 21.32              | 27.68           |
|        |            |         |                 |            | 15               | Low       | 21.33              | 28.75           |
|        | 3.0 MHz    | 20385   | 1753.5          | QPSK       | 1                | Low       | 23.18              | 27.34           |
|        |            |         |                 |            | 1                | Mid       | 23.16              | 27.34           |
|        |            |         |                 |            | 1                | High      | 23.13              | 27.29           |
|        |            |         |                 |            | 8                | Low       | 22.19              | 27.55           |
|        |            |         |                 |            | 8                | High      | 22.15              | 27.36           |
|        |            |         |                 |            | 15               | Low       | 22.43              | 28.13           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.29              | 26.81           |
|        |            |         |                 |            | 1                | Mid       | 22.29              | 26.75           |
|        |            |         |                 |            | 1                | High      | 22.30              | 26.80           |
|        |            |         |                 |            | 8                | Low       | 21.67              | 27.44           |
|        |            |         |                 |            | 8                | High      | 21.53              | 27.40           |
|        |            |         |                 |            | 15               | Low       | 21.60              | 27.80           |

**OUTPUT POWER FOR LTE BAND 4 (5.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 4 | 5.0 MHz    | 19975   | 1712.5          | QPSK       | 1                | Low       | 23.59              | 27.96           |
|        |            |         |                 |            | 1                | Mid       | 23.74              | 27.84           |
|        |            |         |                 |            | 1                | High      | 23.61              | 27.79           |
|        |            |         |                 |            | 12               | Low       | 22.75              | 27.83           |
|        |            |         |                 |            | 12               | High      | 22.70              | 27.87           |
|        |            |         |                 |            | 25               | Low       | 22.69              | 28.36           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.49              | 27.51           |
|        |            |         |                 |            | 1                | Mid       | 22.62              | 27.46           |
|        |            |         |                 |            | 1                | High      | 22.53              | 27.38           |
|        |            |         |                 |            | 12               | Low       | 21.67              | 27.82           |
|        |            |         |                 |            | 12               | High      | 21.63              | 27.77           |
|        |            |         |                 |            | 25               | Low       | 21.75              | 28.47           |
|        | 5.0 MHz    | 20175   | 1732.5          | QPSK       | 1                | Low       | 23.69              | 28.68           |
|        |            |         |                 |            | 1                | Mid       | 23.58              | 28.85           |
|        |            |         |                 |            | 1                | High      | 23.22              | 28.65           |
|        |            |         |                 |            | 12               | Low       | 22.24              | 28.03           |
|        |            |         |                 |            | 12               | High      | 22.31              | 28.14           |
|        |            |         |                 |            | 25               | Low       | 22.27              | 28.64           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.27              | 28.37           |
|        |            |         |                 |            | 1                | Mid       | 22.36              | 28.64           |
|        |            |         |                 |            | 1                | High      | 22.32              | 28.62           |
|        |            |         |                 |            | 12               | Low       | 21.16              | 27.90           |
|        |            |         |                 |            | 12               | High      | 21.30              | 28.24           |
|        |            |         |                 |            | 25               | Low       | 21.29              | 28.45           |
|        | 5.0 MHz    | 20375   | 1752.5          | QPSK       | 1                | Low       | 23.19              | 27.49           |
|        |            |         |                 |            | 1                | Mid       | 23.20              | 27.33           |
|        |            |         |                 |            | 1                | High      | 23.11              | 27.27           |
|        |            |         |                 |            | 12               | Low       | 22.30              | 27.86           |
|        |            |         |                 |            | 12               | High      | 22.07              | 27.43           |
|        |            |         |                 |            | 25               | Low       | 22.37              | 28.25           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.36              | 27.40           |
|        |            |         |                 |            | 1                | Mid       | 22.71              | 27.38           |
|        |            |         |                 |            | 1                | High      | 22.41              | 27.34           |
|        |            |         |                 |            | 12               | Low       | 21.71              | 27.54           |
|        |            |         |                 |            | 12               | High      | 21.52              | 27.47           |
|        |            |         |                 |            | 25               | Low       | 21.65              | 28.41           |

**OUTPUT POWER FOR LTE BAND 4 (10.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 4 | 10.0 MHz   | 20000   | 1715.0          | QPSK       | 1                | Low       | 23.71              | 27.62           |
|        |            |         |                 |            | 1                | Mid       | 23.88              | 27.51           |
|        |            |         |                 |            | 1                | High      | 23.33              | 27.53           |
|        |            |         |                 |            | 25               | Low       | 22.51              | 27.95           |
|        |            |         |                 |            | 25               | High      | 22.32              | 27.87           |
|        |            |         |                 |            | 50               | Low       | 22.64              | 28.55           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.92              | 27.87           |
|        |            |         |                 |            | 1                | Mid       | 22.91              | 27.75           |
|        |            |         |                 |            | 1                | High      | 23.00              | 27.81           |
|        |            |         |                 |            | 25               | Low       | 21.87              | 27.88           |
|        |            |         |                 |            | 25               | High      | 21.72              | 27.78           |
|        |            |         |                 |            | 50               | Low       | 21.78              | 28.63           |
|        | 10.0 MHz   | 20175   | 1732.5          | QPSK       | 1                | Low       | 23.73              | 28.37           |
|        |            |         |                 |            | 1                | Mid       | 23.45              | 28.62           |
|        |            |         |                 |            | 1                | High      | 23.29              | 28.48           |
|        |            |         |                 |            | 25               | Low       | 22.28              | 28.77           |
|        |            |         |                 |            | 25               | High      | 22.43              | 29.07           |
|        |            |         |                 |            | 50               | Low       | 22.35              | 28.63           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.29              | 27.59           |
|        |            |         |                 |            | 1                | Mid       | 22.43              | 27.87           |
|        |            |         |                 |            | 1                | High      | 22.29              | 27.78           |
|        |            |         |                 |            | 25               | Low       | 21.38              | 28.48           |
|        |            |         |                 |            | 25               | High      | 21.55              | 28.82           |
|        |            |         |                 |            | 50               | Low       | 21.39              | 29.07           |
|        | 10.0 MHz   | 20350   | 1750.0          | QPSK       | 1                | Low       | 23.21              | 28.01           |
|        |            |         |                 |            | 1                | Mid       | 23.32              | 27.59           |
|        |            |         |                 |            | 1                | High      | 23.18              | 27.42           |
|        |            |         |                 |            | 25               | Low       | 22.42              | 28.02           |
|        |            |         |                 |            | 25               | High      | 22.47              | 27.73           |
|        |            |         |                 |            | 50               | Low       | 22.72              | 28.33           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.47              | 27.46           |
|        |            |         |                 |            | 1                | Mid       | 22.97              | 27.29           |
|        |            |         |                 |            | 1                | High      | 22.56              | 27.06           |
|        |            |         |                 |            | 25               | Low       | 21.81              | 28.21           |
|        |            |         |                 |            | 25               | High      | 21.65              | 27.79           |
|        |            |         |                 |            | 50               | Low       | 21.70              | 28.22           |

**OUTPUT POWER FOR LTE BAND 4 (15.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 4 | 15.0 MHz   | 20025   | 1717.5          | QPSK       | 1                | Low       | 23.59              | 27.59           |
|        |            |         |                 |            | 1                | Mid       | 23.76              | 27.52           |
|        |            |         |                 |            | 1                | High      | 23.23              | 27.89           |
|        |            |         |                 |            | 36               | Low       | 22.61              | 28.06           |
|        |            |         |                 |            | 36               | High      | 22.38              | 28.00           |
|        |            |         |                 |            | 75               | Low       | 22.40              | 28.79           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.89              | 27.82           |
|        |            |         |                 |            | 1                | Mid       | 22.94              | 27.78           |
|        |            |         |                 |            | 1                | High      | 22.70              | 28.06           |
|        |            |         |                 |            | 36               | Low       | 21.78              | 28.05           |
|        |            |         |                 |            | 36               | High      | 21.74              | 28.08           |
|        |            |         |                 |            | 75               | Low       | 21.79              | 28.42           |
|        | 15.0 MHz   | 20175   | 1732.5          | QPSK       | 1                | Low       | 23.58              | 28.07           |
|        |            |         |                 |            | 1                | Mid       | 23.31              | 28.24           |
|        |            |         |                 |            | 1                | High      | 23.13              | 28.09           |
|        |            |         |                 |            | 36               | Low       | 22.35              | 28.49           |
|        |            |         |                 |            | 36               | High      | 22.42              | 28.79           |
|        |            |         |                 |            | 75               | Low       | 22.38              | 29.14           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.59              | 27.53           |
|        |            |         |                 |            | 1                | Mid       | 22.72              | 27.90           |
|        |            |         |                 |            | 1                | High      | 22.53              | 27.73           |
|        |            |         |                 |            | 36               | Low       | 21.29              | 28.54           |
|        |            |         |                 |            | 36               | High      | 21.40              | 28.88           |
|        |            |         |                 |            | 75               | Low       | 21.33              | 28.75           |
|        | 15.0 MHz   | 20325   | 1747.5          | QPSK       | 1                | Low       | 23.14              | 28.36           |
|        |            |         |                 |            | 1                | Mid       | 23.44              | 27.93           |
|        |            |         |                 |            | 1                | High      | 23.10              | 27.41           |
|        |            |         |                 |            | 36               | Low       | 22.78              | 28.50           |
|        |            |         |                 |            | 36               | High      | 22.73              | 27.90           |
|        |            |         |                 |            | 75               | Low       | 22.74              | 28.99           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.78              | 27.69           |
|        |            |         |                 |            | 1                | Mid       | 22.72              | 27.33           |
|        |            |         |                 |            | 1                | High      | 22.56              | 27.05           |
|        |            |         |                 |            | 36               | Low       | 21.77              | 28.86           |
|        |            |         |                 |            | 36               | High      | 21.67              | 28.00           |
|        |            |         |                 |            | 75               | Low       | 21.74              | 28.66           |

**OUTPUT POWER FOR LTE BAND 4 (20.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 4 | 20.0 MHz   | 20050   | 1720.0          | QPSK       | 1                | Low       | 23.45              | 27.63           |
|        |            |         |                 |            | 1                | Mid       | 23.90              | 27.74           |
|        |            |         |                 |            | 1                | High      | 23.08              | 28.18           |
|        |            |         |                 |            | 50               | Low       | 22.37              | 27.91           |
|        |            |         |                 |            | 50               | High      | 22.21              | 28.14           |
|        |            |         |                 |            | 100              | Low       | 22.33              | 28.43           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.26              | 27.41           |
|        |            |         |                 |            | 1                | Mid       | 22.66              | 27.54           |
|        |            |         |                 |            | 1                | High      | 22.34              | 28.08           |
|        |            |         |                 |            | 50               | Low       | 21.41              | 28.23           |
|        |            |         |                 |            | 50               | High      | 21.27              | 28.37           |
|        |            |         |                 |            | 100              | Low       | 21.40              | 28.56           |
|        | 20.0 MHz   | 20175   | 1732.5          | QPSK       | 1                | Low       | 23.10              | 27.90           |
|        |            |         |                 |            | 1                | Mid       | 23.41              | 28.59           |
|        |            |         |                 |            | 1                | High      | 22.97              | 28.27           |
|        |            |         |                 |            | 50               | Low       | 22.25              | 28.50           |
|        |            |         |                 |            | 50               | High      | 22.46              | 28.94           |
|        |            |         |                 |            | 100              | Low       | 22.35              | 28.99           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.56              | 27.66           |
|        |            |         |                 |            | 1                | Mid       | 22.99              | 28.48           |
|        |            |         |                 |            | 1                | High      | 22.57              | 28.17           |
|        |            |         |                 |            | 50               | Low       | 21.29              | 28.45           |
|        |            |         |                 |            | 50               | High      | 21.46              | 28.90           |
|        |            |         |                 |            | 100              | Low       | 21.39              | 28.94           |
|        | 20.0 MHz   | 20300   | 1745.0          | QPSK       | 1                | Low       | 23.08              | 28.25           |
|        |            |         |                 |            | 1                | Mid       | 23.43              | 27.96           |
|        |            |         |                 |            | 1                | High      | 22.98              | 27.24           |
|        |            |         |                 |            | 50               | Low       | 22.43              | 28.60           |
|        |            |         |                 |            | 50               | High      | 22.39              | 27.99           |
|        |            |         |                 |            | 100              | Low       | 22.57              | 28.80           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.27              | 28.80           |
|        |            |         |                 |            | 1                | Mid       | 22.80              | 28.50           |
|        |            |         |                 |            | 1                | High      | 22.23              | 27.54           |
|        |            |         |                 |            | 50               | Low       | 21.62              | 28.68           |
|        |            |         |                 |            | 50               | High      | 21.59              | 27.88           |
|        |            |         |                 |            | 100              | Low       | 21.66              | 28.81           |

#### 4.3 LTE BAND 5

##### OUTPUT POWER FOR LTE BAND 5 (1.4MHZ)

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 5 | 1.4MHz     | 20407   | 824.7           | QPSK       | 1                | Low       | 23.00              | 28.43           |
|        |            |         |                 |            | 1                | Mid       | 23.07              | 28.56           |
|        |            |         |                 |            | 1                | High      | 23.02              | 28.40           |
|        |            |         |                 |            | 3                | Low       | 23.14              | 28.84           |
|        |            |         |                 |            | 3                | High      | 23.15              | 28.79           |
|        |            |         |                 |            | 6                | Low       | 22.11              | 28.26           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.06              | 27.63           |
|        |            |         |                 |            | 1                | Mid       | 22.25              | 27.80           |
|        |            |         |                 |            | 1                | High      | 22.07              | 27.61           |
|        |            |         |                 |            | 3                | Low       | 22.21              | 28.66           |
|        |            |         |                 |            | 3                | High      | 22.19              | 28.72           |
|        |            |         |                 |            | 6                | Low       | 21.07              | 28.33           |
|        | 1.4MHz     | 20525   | 836.5           | QPSK       | 1                | Low       | 23.05              | 28.90           |
|        |            |         |                 |            | 1                | Mid       | 23.16              | 28.99           |
|        |            |         |                 |            | 1                | High      | 22.95              | 28.84           |
|        |            |         |                 |            | 3                | Low       | 23.03              | 28.91           |
|        |            |         |                 |            | 3                | High      | 22.94              | 28.90           |
|        |            |         |                 |            | 6                | Low       | 22.09              | 28.00           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.20              | 27.41           |
|        |            |         |                 |            | 1                | Mid       | 22.38              | 27.77           |
|        |            |         |                 |            | 1                | High      | 22.21              | 27.43           |
|        |            |         |                 |            | 3                | Low       | 22.09              | 29.08           |
|        |            |         |                 |            | 3                | High      | 22.12              | 29.04           |
|        |            |         |                 |            | 6                | Low       | 21.16              | 28.36           |
|        | 1.4MHz     | 20643   | 848.3           | QPSK       | 1                | Low       | 22.99              | 28.94           |
|        |            |         |                 |            | 1                | Mid       | 23.19              | 29.01           |
|        |            |         |                 |            | 1                | High      | 22.91              | 28.89           |
|        |            |         |                 |            | 3                | Low       | 22.75              | 28.75           |
|        |            |         |                 |            | 3                | High      | 22.91              | 28.78           |
|        |            |         |                 |            | 6                | Low       | 21.85              | 28.72           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.01              | 28.26           |
|        |            |         |                 |            | 1                | Mid       | 22.23              | 28.48           |
|        |            |         |                 |            | 1                | High      | 22.08              | 28.28           |
|        |            |         |                 |            | 3                | Low       | 22.30              | 28.69           |
|        |            |         |                 |            | 3                | High      | 22.28              | 28.64           |
|        |            |         |                 |            | 6                | Low       | 21.11              | 28.69           |

**OUTPUT POWER FOR LTE BAND 5 (3.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 5 | 3.0 MHz    | 20415   | 825.5           | QPSK       | 1                | Low       | 23.06              | 28.27           |
|        |            |         |                 |            | 1                | Mid       | 23.04              | 28.20           |
|        |            |         |                 |            | 1                | High      | 23.04              | 28.16           |
|        |            |         |                 |            | 8                | Low       | 22.10              | 28.17           |
|        |            |         |                 |            | 8                | High      | 22.09              | 28.23           |
|        |            |         |                 |            | 15               | Low       | 22.11              | 28.38           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.50              | 29.03           |
|        |            |         |                 |            | 1                | Mid       | 22.45              | 29.03           |
|        |            |         |                 |            | 1                | High      | 22.49              | 28.99           |
|        |            |         |                 |            | 8                | Low       | 21.26              | 28.25           |
|        |            |         |                 |            | 8                | High      | 21.28              | 28.25           |
|        |            |         |                 |            | 15               | Low       | 21.20              | 28.26           |
|        | 3.0 MHz    | 20525   | 836.5           | QPSK       | 1                | Low       | 23.04              | 28.62           |
|        |            |         |                 |            | 1                | Mid       | 23.08              | 28.69           |
|        |            |         |                 |            | 1                | High      | 23.09              | 28.67           |
|        |            |         |                 |            | 8                | Low       | 22.04              | 28.60           |
|        |            |         |                 |            | 8                | High      | 22.09              | 28.68           |
|        |            |         |                 |            | 15               | Low       | 22.10              | 29.25           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.13              | 27.74           |
|        |            |         |                 |            | 1                | Mid       | 22.15              | 27.86           |
|        |            |         |                 |            | 1                | High      | 22.15              | 27.84           |
|        |            |         |                 |            | 8                | Low       | 21.19              | 27.91           |
|        |            |         |                 |            | 8                | High      | 21.18              | 27.88           |
|        |            |         |                 |            | 15               | Low       | 21.18              | 28.52           |
|        | 3.0 MHz    | 20635   | 847.5           | QPSK       | 1                | Low       | 23.10              | 28.77           |
|        |            |         |                 |            | 1                | Mid       | 23.05              | 28.69           |
|        |            |         |                 |            | 1                | High      | 23.06              | 28.69           |
|        |            |         |                 |            | 8                | Low       | 22.11              | 28.38           |
|        |            |         |                 |            | 8                | High      | 22.06              | 28.56           |
|        |            |         |                 |            | 15               | Low       | 22.10              | 28.41           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.27              | 27.43           |
|        |            |         |                 |            | 1                | Mid       | 22.22              | 27.47           |
|        |            |         |                 |            | 1                | High      | 22.25              | 27.42           |
|        |            |         |                 |            | 8                | Low       | 21.08              | 28.11           |
|        |            |         |                 |            | 8                | High      | 21.11              | 27.94           |
|        |            |         |                 |            | 15               | Low       | 21.08              | 28.17           |

### OUTPUT POWER FOR LTE BAND 5 (5.0MHZ)

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 5 | 5.0 MHz    | 20425   | 826.5           | QPSK       | 1                | Low       | 23.01              | 29.21           |
|        |            |         |                 |            | 1                | Mid       | 23.15              | 29.15           |
|        |            |         |                 |            | 1                | High      | 23.00              | 29.19           |
|        |            |         |                 |            | 12               | Low       | 22.04              | 28.30           |
|        |            |         |                 |            | 12               | High      | 22.14              | 28.49           |
|        |            |         |                 |            | 25               | Low       | 22.11              | 28.71           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.96              | 27.97           |
|        |            |         |                 |            | 1                | Mid       | 22.07              | 28.01           |
|        |            |         |                 |            | 1                | High      | 21.95              | 27.94           |
|        |            |         |                 |            | 12               | Low       | 21.03              | 28.73           |
|        |            |         |                 |            | 12               | High      | 21.13              | 28.78           |
|        |            |         |                 |            | 25               | Low       | 21.15              | 29.08           |
|        | 5.0 MHz    | 20525   | 836.5           | QPSK       | 1                | Low       | 22.96              | 28.86           |
|        |            |         |                 |            | 1                | Mid       | 23.10              | 29.05           |
|        |            |         |                 |            | 1                | High      | 22.98              | 28.92           |
|        |            |         |                 |            | 12               | Low       | 22.08              | 28.44           |
|        |            |         |                 |            | 12               | High      | 22.09              | 28.18           |
|        |            |         |                 |            | 25               | Low       | 22.13              | 28.64           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.11              | 28.89           |
|        |            |         |                 |            | 1                | Mid       | 22.23              | 29.03           |
|        |            |         |                 |            | 1                | High      | 22.11              | 28.92           |
|        |            |         |                 |            | 12               | Low       | 21.07              | 28.12           |
|        |            |         |                 |            | 12               | High      | 21.09              | 28.23           |
|        |            |         |                 |            | 25               | Low       | 21.17              | 29.02           |
|        | 5.0 MHz    | 20625   | 846.5           | QPSK       | 1                | Low       | 23.03              | 28.59           |
|        |            |         |                 |            | 1                | Mid       | 23.10              | 28.65           |
|        |            |         |                 |            | 1                | High      | 22.97              | 28.54           |
|        |            |         |                 |            | 12               | Low       | 22.07              | 28.74           |
|        |            |         |                 |            | 12               | High      | 22.04              | 28.74           |
|        |            |         |                 |            | 25               | Low       | 22.06              | 28.91           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.32              | 28.39           |
|        |            |         |                 |            | 1                | Mid       | 22.47              | 28.52           |
|        |            |         |                 |            | 1                | High      | 22.35              | 28.45           |
|        |            |         |                 |            | 12               | Low       | 21.08              | 28.09           |
|        |            |         |                 |            | 12               | High      | 21.07              | 28.16           |
|        |            |         |                 |            | 25               | Low       | 21.09              | 29.73           |

**OUTPUT POWER FOR LTE BAND 5 (10.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 5 | 10.0 MHz   | 20450   | 829.0           | QPSK       | 1                | Low       | 23.05              | 28.17           |
|        |            |         |                 |            | 1                | Mid       | 23.23              | 28.42           |
|        |            |         |                 |            | 1                | High      | 23.07              | 28.38           |
|        |            |         |                 |            | 25               | Low       | 22.12              | 28.69           |
|        |            |         |                 |            | 25               | High      | 22.11              | 28.76           |
|        |            |         |                 |            | 50               | Low       | 22.12              | 28.50           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.39              | 29.04           |
|        |            |         |                 |            | 1                | Mid       | 22.42              | 29.19           |
|        |            |         |                 |            | 1                | High      | 22.43              | 29.31           |
|        |            |         |                 |            | 25               | Low       | 21.17              | 28.63           |
|        |            |         |                 |            | 25               | High      | 21.18              | 28.76           |
|        |            |         |                 |            | 50               | Low       | 21.15              | 28.82           |
|        | 10.0 MHz   | 20525   | 836.5           | QPSK       | 1                | Low       | 23.08              | 28.55           |
|        |            |         |                 |            | 1                | Mid       | 23.24              | 28.84           |
|        |            |         |                 |            | 1                | High      | 23.07              | 28.64           |
|        |            |         |                 |            | 25               | Low       | 22.19              | 29.43           |
|        |            |         |                 |            | 25               | High      | 22.17              | 29.18           |
|        |            |         |                 |            | 50               | Low       | 22.20              | 28.63           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.14              | 27.76           |
|        |            |         |                 |            | 1                | Mid       | 22.28              | 28.02           |
|        |            |         |                 |            | 1                | High      | 22.12              | 27.78           |
|        |            |         |                 |            | 25               | Low       | 21.32              | 28.98           |
|        |            |         |                 |            | 25               | High      | 21.30              | 28.92           |
|        |            |         |                 |            | 50               | Low       | 21.24              | 29.48           |
|        | 10.0 MHz   | 20600   | 844.0           | QPSK       | 1                | Low       | 23.02              | 28.80           |
|        |            |         |                 |            | 1                | Mid       | 23.22              | 28.86           |
|        |            |         |                 |            | 1                | High      | 23.09              | 28.74           |
|        |            |         |                 |            | 25               | Low       | 22.13              | 28.72           |
|        |            |         |                 |            | 25               | High      | 22.10              | 28.76           |
|        |            |         |                 |            | 50               | Low       | 22.12              | 28.70           |
|        |            |         |                 | 16QAM      | 1                | Low       | 22.23              | 27.43           |
|        |            |         |                 |            | 1                | Mid       | 22.41              | 27.79           |
|        |            |         |                 |            | 1                | High      | 22.21              | 27.48           |
|        |            |         |                 |            | 25               | Low       | 21.18              | 29.01           |
|        |            |         |                 |            | 25               | High      | 21.18              | 28.86           |
|        |            |         |                 |            | 50               | Low       | 21.18              | 28.20           |

#### 4.4 LTE BAND 7

##### OUTPUT POWER FOR LTE BAND 7 (5.0MHZ)

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 7 | 5.0MHz     | 20775   | 2502.5          | QPSK       | 1                | Low       | 22.33              | 27.58           |
|        |            |         |                 |            | 1                | Mid       | 22.44              | 27.43           |
|        |            |         |                 |            | 1                | High      | 22.34              | 27.35           |
|        |            |         |                 |            | 12               | Low       | 21.45              | 27.08           |
|        |            |         |                 |            | 12               | High      | 21.44              | 26.98           |
|        |            |         |                 |            | 25               | Low       | 21.42              | 27.52           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.27              | 26.70           |
|        |            |         |                 |            | 1                | Mid       | 21.41              | 26.79           |
|        |            |         |                 |            | 1                | High      | 21.29              | 26.65           |
|        |            |         |                 |            | 12               | Low       | 20.46              | 27.34           |
|        |            |         |                 |            | 12               | High      | 20.42              | 27.26           |
|        |            |         |                 |            | 25               | Low       | 20.50              | 27.67           |
|        | 5.0MHz     | 21100   | 2535.0          | QPSK       | 1                | Low       | 22.37              | 27.26           |
|        |            |         |                 |            | 1                | Mid       | 22.55              | 27.17           |
|        |            |         |                 |            | 1                | High      | 22.39              | 26.89           |
|        |            |         |                 |            | 12               | Low       | 21.55              | 26.97           |
|        |            |         |                 |            | 12               | High      | 21.51              | 26.97           |
|        |            |         |                 |            | 25               | Low       | 21.56              | 27.38           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.53              | 27.22           |
|        |            |         |                 |            | 1                | Mid       | 21.62              | 27.08           |
|        |            |         |                 |            | 1                | High      | 21.54              | 26.92           |
|        |            |         |                 |            | 12               | Low       | 20.54              | 27.16           |
|        |            |         |                 |            | 12               | High      | 20.45              | 27.06           |
|        |            |         |                 |            | 25               | Low       | 20.58              | 27.69           |
|        | 5.0MHz     | 21425   | 2567.5          | QPSK       | 1                | Low       | 22.49              | 27.20           |
|        |            |         |                 |            | 1                | Mid       | 22.64              | 27.19           |
|        |            |         |                 |            | 1                | High      | 22.53              | 26.86           |
|        |            |         |                 |            | 12               | Low       | 21.66              | 27.42           |
|        |            |         |                 |            | 12               | High      | 21.55              | 27.22           |
|        |            |         |                 |            | 25               | Low       | 21.62              | 27.70           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.78              | 27.12           |
|        |            |         |                 |            | 1                | Mid       | 21.94              | 27.16           |
|        |            |         |                 |            | 1                | High      | 21.81              | 26.90           |
|        |            |         |                 |            | 12               | Low       | 20.66              | 27.07           |
|        |            |         |                 |            | 12               | High      | 20.55              | 26.99           |
|        |            |         |                 |            | 25               | Low       | 20.59              | 28.13           |

**OUTPUT POWER FOR LTE BAND 7 (10.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 7 | 10.0 MHz   | 20800   | 2505.0          | QPSK       | 1                | Low       | 22.38              | 26.85           |
|        |            |         |                 |            | 1                | Mid       | 22.61              | 26.81           |
|        |            |         |                 |            | 1                | High      | 22.47              | 26.78           |
|        |            |         |                 |            | 25               | Low       | 21.50              | 27.24           |
|        |            |         |                 |            | 25               | High      | 21.57              | 27.26           |
|        |            |         |                 |            | 50               | Low       | 21.51              | 27.54           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.94              | 27.31           |
|        |            |         |                 |            | 1                | Mid       | 21.12              | 27.25           |
|        |            |         |                 |            | 1                | High      | 22.00              | 27.31           |
|        |            |         |                 |            | 25               | Low       | 20.53              | 27.15           |
|        |            |         |                 |            | 25               | High      | 20.62              | 27.15           |
|        |            |         |                 |            | 50               | Low       | 20.55              | 27.91           |
|        | 10.0 MHz   | 21100   | 2535.0          | QPSK       | 1                | Low       | 22.51              | 27.30           |
|        |            |         |                 |            | 1                | Mid       | 22.68              | 27.00           |
|        |            |         |                 |            | 1                | High      | 22.57              | 26.67           |
|        |            |         |                 |            | 25               | Low       | 21.66              | 27.86           |
|        |            |         |                 |            | 25               | High      | 21.59              | 27.48           |
|        |            |         |                 |            | 50               | Low       | 21.65              | 27.69           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.56              | 26.67           |
|        |            |         |                 |            | 1                | Mid       | 21.72              | 26.60           |
|        |            |         |                 |            | 1                | High      | 21.56              | 26.32           |
|        |            |         |                 |            | 25               | Low       | 20.78              | 27.57           |
|        |            |         |                 |            | 25               | High      | 20.63              | 27.37           |
|        |            |         |                 |            | 50               | Low       | 20.66              | 28.08           |
|        | 10.0 MHz   | 21400   | 2565.0          | QPSK       | 1                | Low       | 22.53              | 27.17           |
|        |            |         |                 |            | 1                | Mid       | 22.73              | 27.48           |
|        |            |         |                 |            | 1                | High      | 22.62              | 27.04           |
|        |            |         |                 |            | 25               | Low       | 21.65              | 27.34           |
|        |            |         |                 |            | 25               | High      | 21.54              | 27.45           |
|        |            |         |                 |            | 50               | Low       | 21.55              | 27.70           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.72              | 26.32           |
|        |            |         |                 |            | 1                | Mid       | 21.87              | 26.53           |
|        |            |         |                 |            | 1                | High      | 21.71              | 26.33           |
|        |            |         |                 |            | 25               | Low       | 20.63              | 27.45           |
|        |            |         |                 |            | 25               | High      | 20.57              | 27.54           |
|        |            |         |                 |            | 50               | Low       | 20.53              | 27.52           |

**OUTPUT POWER FOR LTE BAND 7 (15.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 7 | 15.0 MHz   | 20825   | 2507.5          | QPSK       | 1                | Low       | 22.32              | 26.89           |
|        |            |         |                 |            | 1                | Mid       | 22.44              | 26.81           |
|        |            |         |                 |            | 1                | High      | 22.37              | 26.88           |
|        |            |         |                 |            | 36               | Low       | 21.56              | 27.24           |
|        |            |         |                 |            | 36               | High      | 21.65              | 27.36           |
|        |            |         |                 |            | 75               | Low       | 21.58              | 28.22           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.88              | 27.35           |
|        |            |         |                 |            | 1                | Mid       | 21.92              | 27.34           |
|        |            |         |                 |            | 1                | High      | 21.93              | 27.51           |
|        |            |         |                 |            | 36               | Low       | 20.53              | 27.34           |
|        |            |         |                 |            | 36               | High      | 20.56              | 27.40           |
|        |            |         |                 |            | 75               | Low       | 20.57              | 27.65           |
|        | 15.0 MHz   | 21100   | 2535.0          | QPSK       | 1                | Low       | 22.47              | 27.13           |
|        |            |         |                 |            | 1                | Mid       | 22.54              | 26.89           |
|        |            |         |                 |            | 1                | High      | 22.47              | 26.45           |
|        |            |         |                 |            | 36               | Low       | 21.71              | 27.79           |
|        |            |         |                 |            | 36               | High      | 21.63              | 27.24           |
|        |            |         |                 |            | 75               | Low       | 21.67              | 28.18           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.88              | 26.82           |
|        |            |         |                 |            | 1                | Mid       | 21.94              | 26.67           |
|        |            |         |                 |            | 1                | High      | 21.79              | 26.31           |
|        |            |         |                 |            | 36               | Low       | 20.63              | 27.80           |
|        |            |         |                 |            | 36               | High      | 20.56              | 27.38           |
|        |            |         |                 |            | 75               | Low       | 20.62              | 27.82           |
|        | 15.0 MHz   | 21375   | 2562.5          | QPSK       | 1                | Low       | 22.48              | 26.93           |
|        |            |         |                 |            | 1                | Mid       | 22.62              | 27.34           |
|        |            |         |                 |            | 1                | High      | 22.53              | 27.11           |
|        |            |         |                 |            | 36               | Low       | 21.66              | 27.24           |
|        |            |         |                 |            | 36               | High      | 21.63              | 27.54           |
|        |            |         |                 |            | 75               | Low       | 21.61              | 28.09           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.62              | 26.14           |
|        |            |         |                 |            | 1                | Mid       | 21.75              | 26.42           |
|        |            |         |                 |            | 1                | High      | 21.69              | 26.30           |
|        |            |         |                 |            | 36               | Low       | 20.60              | 27.65           |
|        |            |         |                 |            | 36               | High      | 20.62              | 27.86           |
|        |            |         |                 |            | 75               | Low       | 20.57              | 27.73           |

**OUTPUT POWER FOR LTE BAND 7 (20.0MHZ)**

| Band   | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|--------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|        |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 7 | 20.0 MHz   | 20850   | 2510.0          | QPSK       | 1                | Low       | 22.17              | 27.00           |
|        |            |         |                 |            | 1                | Mid       | 22.66              | 27.18           |
|        |            |         |                 |            | 1                | High      | 22.26              | 27.23           |
|        |            |         |                 |            | 50               | Low       | 21.46              | 27.36           |
|        |            |         |                 |            | 50               | High      | 21.63              | 27.49           |
|        |            |         |                 |            | 100              | Low       | 21.51              | 27.71           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.53              | 26.91           |
|        |            |         |                 |            | 1                | Mid       | 21.97              | 27.07           |
|        |            |         |                 |            | 1                | High      | 21.58              | 27.13           |
|        |            |         |                 |            | 50               | Low       | 20.40              | 27.64           |
|        |            |         |                 |            | 50               | High      | 20.61              | 27.72           |
|        |            |         |                 |            | 100              | Low       | 20.53              | 28.39           |
|        | 20.0 MHz   | 21100   | 2535.0          | QPSK       | 1                | Low       | 22.25              | 27.44           |
|        |            |         |                 |            | 1                | Mid       | 22.70              | 27.31           |
|        |            |         |                 |            | 1                | High      | 22.30              | 26.56           |
|        |            |         |                 |            | 50               | Low       | 21.74              | 27.76           |
|        |            |         |                 |            | 50               | High      | 21.56              | 27.20           |
|        |            |         |                 |            | 100              | Low       | 21.63              | 27.89           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.83              | 27.30           |
|        |            |         |                 |            | 1                | Mid       | 21.28              | 27.22           |
|        |            |         |                 |            | 1                | High      | 21.77              | 26.54           |
|        |            |         |                 |            | 50               | Low       | 20.68              | 27.74           |
|        |            |         |                 |            | 50               | High      | 20.49              | 27.22           |
|        |            |         |                 |            | 100              | Low       | 20.65              | 27.90           |
|        | 20.0 MHz   | 21350   | 2560.0          | QPSK       | 1                | Low       | 22.30              | 26.53           |
|        |            |         |                 |            | 1                | Mid       | 22.75              | 27.22           |
|        |            |         |                 |            | 1                | High      | 22.44              | 26.99           |
|        |            |         |                 |            | 50               | Low       | 21.48              | 27.13           |
|        |            |         |                 |            | 50               | High      | 21.52              | 27.51           |
|        |            |         |                 |            | 100              | Low       | 21.47              | 27.74           |
|        |            |         |                 | 16QAM      | 1                | Low       | 21.52              | 26.86           |
|        |            |         |                 |            | 1                | Mid       | 21.92              | 27.47           |
|        |            |         |                 |            | 1                | High      | 21.63              | 27.46           |
|        |            |         |                 |            | 50               | Low       | 20.46              | 27.17           |
|        |            |         |                 |            | 50               | High      | 20.51              | 27.34           |
|        |            |         |                 |            | 100              | Low       | 20.47              | 27.53           |

#### 4.5 LTE BAND 41

##### OUTPUT POWER FOR LTE BAND 41 (5MHZ)

| Band    | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|---------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|         |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 41 | 5.0 MHz    | 40265   | 2557.5          | QPSK       | 1                | Low       | 22.75              | 28.01           |
|         |            |         |                 |            | 1                | Mid       | 22.87              | 28.44           |
|         |            |         |                 |            | 1                | High      | 22.79              | 28.45           |
|         |            |         |                 |            | 12               | Low       | 21.86              | 28.44           |
|         |            |         |                 |            | 12               | High      | 21.80              | 28.45           |
|         |            |         |                 |            | 25               | Low       | 21.84              | 28.35           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.94              | 27.93           |
|         |            |         |                 |            | 1                | Mid       | 21.99              | 27.99           |
|         |            |         |                 |            | 1                | High      | 21.93              | 27.96           |
|         |            |         |                 |            | 12               | Low       | 20.90              | 27.78           |
|         |            |         |                 |            | 12               | High      | 20.86              | 27.78           |
|         |            |         |                 |            | 25               | Low       | 20.90              | 28.43           |
|         | 5.0 MHz    | 40740   | 2605.0          | QPSK       | 1                | Low       | 22.83              | 27.85           |
|         |            |         |                 |            | 1                | Mid       | 22.93              | 28.07           |
|         |            |         |                 |            | 1                | High      | 22.84              | 27.96           |
|         |            |         |                 |            | 12               | Low       | 21.85              | 27.78           |
|         |            |         |                 |            | 12               | High      | 21.90              | 27.87           |
|         |            |         |                 |            | 25               | Low       | 21.87              | 28.03           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.90              | 27.57           |
|         |            |         |                 |            | 1                | Mid       | 21.92              | 27.75           |
|         |            |         |                 |            | 1                | High      | 21.91              | 27.70           |
|         |            |         |                 |            | 12               | Low       | 20.84              | 27.65           |
|         |            |         |                 |            | 12               | High      | 20.87              | 27.73           |
|         |            |         |                 |            | 25               | Low       | 20.87              | 28.22           |
|         | 5.0 MHz    | 41215   | 2652.5          | QPSK       | 1                | Low       | 22.88              | 27.58           |
|         |            |         |                 |            | 1                | Mid       | 22.92              | 27.75           |
|         |            |         |                 |            | 1                | High      | 22.91              | 27.85           |
|         |            |         |                 |            | 12               | Low       | 21.95              | 27.95           |
|         |            |         |                 |            | 12               | High      | 21.97              | 28.07           |
|         |            |         |                 |            | 25               | Low       | 21.95              | 28.33           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.97              | 27.39           |
|         |            |         |                 |            | 1                | Mid       | 21.99              | 27.40           |
|         |            |         |                 |            | 1                | High      | 21.99              | 27.44           |
|         |            |         |                 |            | 12               | Low       | 20.96              | 27.39           |
|         |            |         |                 |            | 12               | High      | 20.97              | 27.43           |
|         |            |         |                 |            | 25               | Low       | 21.00              | 28.12           |

**OUTPUT POWER FOR LTE BAND 41 (10.0MHZ)**

| Band    | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|---------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|         |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 41 | 10.0 MHz   | 40290   | 2560.0          | QPSK       | 1                | Low       | 22.86              | 28.59           |
|         |            |         |                 |            | 1                | Mid       | 22.21              | 29.03           |
|         |            |         |                 |            | 1                | High      | 22.97              | 28.87           |
|         |            |         |                 |            | 25               | Low       | 21.91              | 28.14           |
|         |            |         |                 |            | 25               | High      | 21.84              | 28.23           |
|         |            |         |                 |            | 50               | Low       | 21.87              | 28.84           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.91              | 28.32           |
|         |            |         |                 |            | 1                | Mid       | 21.94              | 28.74           |
|         |            |         |                 |            | 1                | High      | 22.00              | 28.62           |
|         |            |         |                 |            | 25               | Low       | 20.96              | 28.70           |
|         |            |         |                 |            | 25               | High      | 20.87              | 28.77           |
|         |            |         |                 |            | 50               | Low       | 20.86              | 28.85           |
|         | 10.0 MHz   | 40740   | 2605.0          | QPSK       | 1                | Low       | 22.98              | 27.99           |
|         |            |         |                 |            | 1                | Mid       | 22.30              | 28.20           |
|         |            |         |                 |            | 1                | High      | 22.90              | 28.43           |
|         |            |         |                 |            | 25               | Low       | 21.89              | 28.40           |
|         |            |         |                 |            | 25               | High      | 21.95              | 28.62           |
|         |            |         |                 |            | 50               | Low       | 21.90              | 28.49           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.94              | 27.96           |
|         |            |         |                 |            | 1                | Mid       | 21.98              | 28.06           |
|         |            |         |                 |            | 1                | High      | 21.96              | 28.02           |
|         |            |         |                 |            | 25               | Low       | 20.93              | 27.63           |
|         |            |         |                 |            | 25               | High      | 20.98              | 27.69           |
|         |            |         |                 |            | 50               | Low       | 20.92              | 28.00           |
|         | 10.0 MHz   | 41190   | 2650.0          | QPSK       | 1                | Low       | 22.88              | 27.58           |
|         |            |         |                 |            | 1                | Mid       | 22.37              | 27.78           |
|         |            |         |                 |            | 1                | High      | 22.77              | 27.89           |
|         |            |         |                 |            | 25               | Low       | 21.92              | 27.99           |
|         |            |         |                 |            | 25               | High      | 21.95              | 28.06           |
|         |            |         |                 |            | 50               | Low       | 21.96              | 28.26           |
|         |            |         |                 | 16QAM      | 1                | Low       | 22.00              | 27.59           |
|         |            |         |                 |            | 1                | Mid       | 21.96              | 27.82           |
|         |            |         |                 |            | 1                | High      | 21.95              | 27.90           |
|         |            |         |                 |            | 25               | Low       | 20.98              | 27.74           |
|         |            |         |                 |            | 25               | High      | 20.91              | 27.83           |
|         |            |         |                 |            | 50               | Low       | 20.97              | 28.42           |

**OUTPUT POWER FOR LTE BAND 41 (15.0MHZ)**

| Band    | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|---------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|         |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 41 | 15.0 MHz   | 40315   | 2562.5          | QPSK       | 1                | Low       | 22.80              | 28.62           |
|         |            |         |                 |            | 1                | Mid       | 22.99              | 28.95           |
|         |            |         |                 |            | 1                | High      | 22.92              | 28.68           |
|         |            |         |                 |            | 36               | Low       | 21.95              | 28.57           |
|         |            |         |                 |            | 36               | High      | 21.92              | 28.82           |
|         |            |         |                 |            | 75               | Low       | 21.91              | 28.67           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.94              | 27.90           |
|         |            |         |                 |            | 1                | Mid       | 21.91              | 28.20           |
|         |            |         |                 |            | 1                | High      | 21.95              | 28.15           |
|         |            |         |                 |            | 36               | Low       | 20.90              | 28.67           |
|         |            |         |                 |            | 36               | High      | 20.91              | 28.81           |
|         |            |         |                 |            | 75               | Low       | 20.90              | 29.08           |
|         | 15.0 MHz   | 40740   | 2605.0          | QPSK       | 1                | Low       | 22.92              | 28.01           |
|         |            |         |                 |            | 1                | Mid       | 22.93              | 28.06           |
|         |            |         |                 |            | 1                | High      | 22.92              | 28.48           |
|         |            |         |                 |            | 36               | Low       | 21.99              | 28.08           |
|         |            |         |                 |            | 36               | High      | 21.92              | 28.24           |
|         |            |         |                 |            | 75               | Low       | 22.00              | 28.58           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.92              | 27.73           |
|         |            |         |                 |            | 1                | Mid       | 21.97              | 27.84           |
|         |            |         |                 |            | 1                | High      | 21.90              | 28.44           |
|         |            |         |                 |            | 36               | Low       | 20.98              | 27.95           |
|         |            |         |                 |            | 36               | High      | 20.92              | 28.16           |
|         |            |         |                 |            | 75               | Low       | 21.00              | 28.65           |
|         | 15.0 MHz   | 41165   | 2648.5          | QPSK       | 1                | Low       | 22.93              | 27.48           |
|         |            |         |                 |            | 1                | Mid       | 22.97              | 27.66           |
|         |            |         |                 |            | 1                | High      | 22.91              | 27.73           |
|         |            |         |                 |            | 36               | Low       | 21.94              | 27.95           |
|         |            |         |                 |            | 36               | High      | 21.95              | 28.24           |
|         |            |         |                 |            | 75               | Low       | 21.92              | 28.28           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.78              | 27.49           |
|         |            |         |                 |            | 1                | Mid       | 21.90              | 27.64           |
|         |            |         |                 |            | 1                | High      | 21.89              | 26.86           |
|         |            |         |                 |            | 36               | Low       | 21.00              | 27.61           |
|         |            |         |                 |            | 36               | High      | 20.92              | 28.05           |
|         |            |         |                 |            | 75               | Low       | 20.92              | 28.32           |

**OUTPUT POWER FOR LTE BAND 41 (20.0MHZ)**

| Band    | Band Width | Channel | Frequency (MHz) | Modulation | RB Configuration |           | Average Power(dBm) | Peak Power(dBm) |
|---------|------------|---------|-----------------|------------|------------------|-----------|--------------------|-----------------|
|         |            |         |                 |            | RB Size          | RB Offset |                    |                 |
| Band 41 | 20.0 MHz   | 40340   | 2565.0          | QPSK       | 1                | Low       | 22.67              | 27.74           |
|         |            |         |                 |            | 1                | Mid       | 22.89              | 28.23           |
|         |            |         |                 |            | 1                | High      | 22.80              | 28.07           |
|         |            |         |                 |            | 50               | Low       | 21.92              | 28.93           |
|         |            |         |                 |            | 50               | High      | 21.94              | 28.78           |
|         |            |         |                 |            | 100              | Low       | 21.99              | 28.87           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.85              | 27.52           |
|         |            |         |                 |            | 1                | Mid       | 21.96              | 28.15           |
|         |            |         |                 |            | 1                | High      | 21.95              | 27.85           |
|         |            |         |                 |            | 50               | Low       | 20.95              | 28.71           |
|         |            |         |                 |            | 50               | High      | 20.95              | 28.59           |
|         |            |         |                 |            | 100              | Low       | 20.91              | 29.23           |
|         | 20.0 MHz   | 40740   | 2605.0          | QPSK       | 1                | Low       | 22.82              | 28.19           |
|         |            |         |                 |            | 1                | Mid       | 22.95              | 28.30           |
|         |            |         |                 |            | 1                | High      | 22.83              | 28.78           |
|         |            |         |                 |            | 50               | Low       | 21.87              | 28.19           |
|         |            |         |                 |            | 50               | High      | 21.95              | 28.42           |
|         |            |         |                 |            | 100              | Low       | 21.92              | 28.76           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.92              | 27.57           |
|         |            |         |                 |            | 1                | Mid       | 21.96              | 27.81           |
|         |            |         |                 |            | 1                | High      | 21.92              | 28.00           |
|         |            |         |                 |            | 50               | Low       | 20.93              | 28.02           |
|         |            |         |                 |            | 50               | High      | 20.91              | 28.23           |
|         |            |         |                 |            | 100              | Low       | 20.91              | 28.23           |
|         | 20.0 MHz   | 41140   | 2645.0          | QPSK       | 1                | Low       | 22.67              | 27.69           |
|         |            |         |                 |            | 1                | Mid       | 22.94              | 27.60           |
|         |            |         |                 |            | 1                | High      | 22.81              | 27.62           |
|         |            |         |                 |            | 50               | Low       | 21.95              | 27.95           |
|         |            |         |                 |            | 50               | High      | 21.96              | 27.98           |
|         |            |         |                 |            | 100              | Low       | 21.89              | 28.49           |
|         |            |         |                 | 16QAM      | 1                | Low       | 21.81              | 27.60           |
|         |            |         |                 |            | 1                | Mid       | 21.92              | 27.53           |
|         |            |         |                 |            | 1                | High      | 21.74              | 27.49           |
|         |            |         |                 |            | 50               | Low       | 20.93              | 27.95           |
|         |            |         |                 |            | 50               | High      | 20.98              | 28.05           |
|         |            |         |                 |            | 100              | Low       | 20.92              | 28.75           |

## 5. OCCUPIED BANDWIDTH

### RULE PART(S)

FCC: §2.1049

### LIMITS

For reporting purposes only

### TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

### MODES TESTED

LTE Band 4  
LTE Band 5  
LTE Band 7  
LTE Band 41

### RESULTS

PASS

**Test results:**

| Band       | Mode             | RB Size/RB Offset | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | -26dBc Occupied Bandwidth (MHz) |
|------------|------------------|-------------------|-----------------|------------------------------|---------------------------------|
| LTE Band 4 | 1.4MHz BW QPSK   | 6/0               | 1732.5          | 1.09                         | 1.26                            |
|            | 1.4MHz BW 16QAM  | 6/0               | 1732.5          | 1.09                         | 1.27                            |
|            | 3.0MHz BW QPSK   | 15/0              | 1732.5          | 2.69                         | 2.88                            |
|            | 3.0MHz BW 16QAM  | 15/0              | 1732.5          | 2.69                         | 2.87                            |
|            | 5.0MHz BW QPSK   | 25/0              | 1732.5          | 4.49                         | 4.79                            |
|            | 5.0MHz BW 16QAM  | 25/0              | 1732.5          | 4.49                         | 4.77                            |
|            | 10.0MHz BW QPSK  | 50/0              | 1732.5          | 8.97                         | 9.50                            |
|            | 10.0MHz BW 16QAM | 50/0              | 1732.5          | 8.97                         | 9.49                            |
|            | 15.0MHz BW QPSK  | 75/0              | 1732.5          | 13.45                        | 14.24                           |
|            | 15.0MHz BW 16QAM | 75/0              | 1732.5          | 13.45                        | 14.21                           |
|            | 20.0MHz BW QPSK  | 100/0             | 1732.5          | 17.93                        | 19.00                           |
|            | 20.0MHz BW 16QAM | 100/0             | 1732.5          | 17.93                        | 18.99                           |

| Band       | Mode               | RB Size/RB Offset | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | -26dBc Occupied Bandwidth (MHz) |
|------------|--------------------|-------------------|-----------------|------------------------------|---------------------------------|
| LTE Band 5 | 1.4MHz BAND QPSK   | 6/0               | 836.5           | 1.08                         | 1.24                            |
|            | 1.4MHz BAND 16QAM  | 6/0               | 836.5           | 1.08                         | 1.26                            |
|            | 3.0MHz BAND QPSK   | 15/0              | 836.5           | 2.69                         | 2.87                            |
|            | 3.0MHz BAND 16QAM  | 15/0              | 836.5           | 2.69                         | 2.86                            |
|            | 5.0MHz BAND QPSK   | 25/0              | 836.5           | 4.49                         | 4.79                            |
|            | 5.0MHz BAND 16QAM  | 25/0              | 836.5           | 4.49                         | 4.77                            |
|            | 10.0MHz BAND QPSK  | 50/0              | 836.5           | 8.97                         | 9.51                            |
|            | 10.0MHz BAND 16QAM | 50/0              | 836.5           | 8.97                         | 9.49                            |

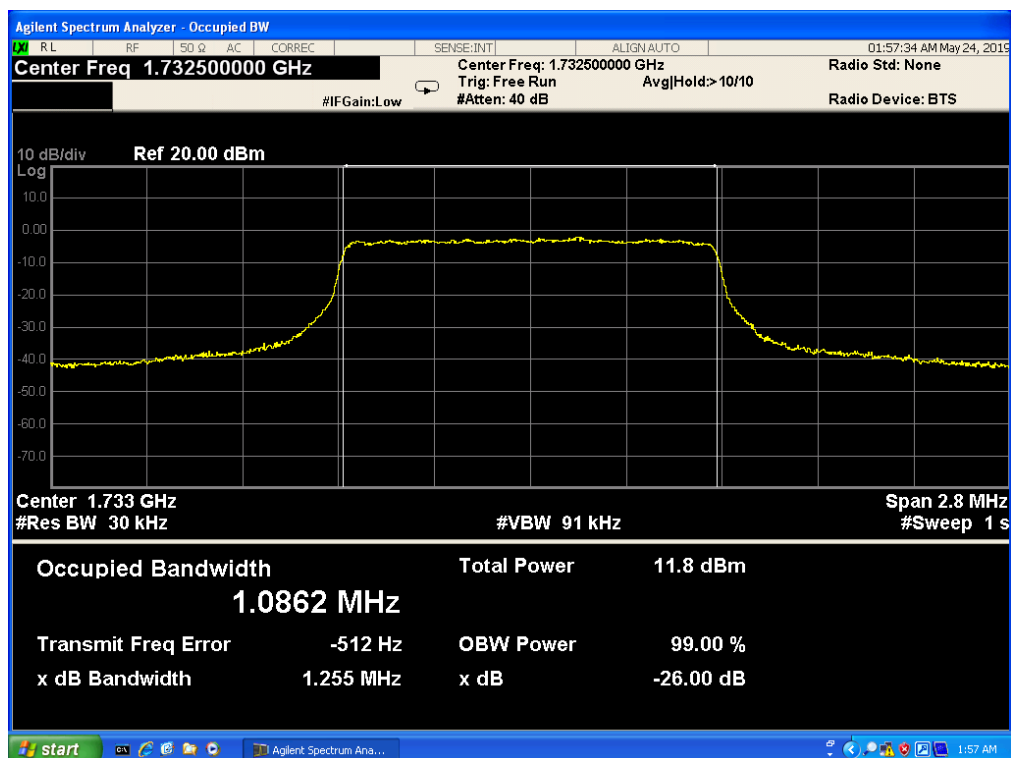
| Band       | Mode               | RB Size/RB Offset | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | -26dBc Occupied Bandwidth (MHz) |
|------------|--------------------|-------------------|-----------------|------------------------------|---------------------------------|
| LTE Band 7 | 5.0MHz BAND QPSK   | 25/0              | 2535.0          | 4.49                         | 4.79                            |
|            | 5.0MHz BAND 16QAM  | 25/0              | 2535.0          | 4.49                         | 4.78                            |
|            | 10.0MHz BAND QPSK  | 50/0              | 2535.0          | 8.98                         | 9.52                            |
|            | 10.0MHz BAND 16QAM | 50/0              | 2535.0          | 8.97                         | 9.50                            |
|            | 15.0MHz BAND QPSK  | 75/0              | 2535.0          | 13.46                        | 14.24                           |
|            | 15.0MHz BAND 16QAM | 75/0              | 2535.0          | 13.46                        | 14.22                           |
|            | 20.0MHz BAND QPSK  | 100/0             | 2535.0          | 17.96                        | 19.00                           |
|            | 20.0MHz BAND 16QAM | 100/0             | 2535.0          | 17.96                        | 19.01                           |

| Band        | Mode               | RB Size/RB Offset | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | -26dBc Occupied Bandwidth (MHz) |
|-------------|--------------------|-------------------|-----------------|------------------------------|---------------------------------|
| LTE Band 41 | 5.0MHz BAND QPSK   | 25/0              | 2605.0          | 4.48                         | 4.76                            |
|             | 5.0MHz BAND 16QAM  | 25/0              | 2605.0          | 4.48                         | 4.77                            |
|             | 10.0MHz BAND QPSK  | 50/0              | 2605.0          | 8.95                         | 9.48                            |
|             | 10.0MHz BAND 16QAM | 50/0              | 2605.0          | 8.96                         | 9.48                            |
|             | 15.0MHz BAND QPSK  | 75/0              | 2605.0          | 13.43                        | 14.21                           |
|             | 15.0MHz BAND 16QAM | 75/0              | 2605.0          | 13.43                        | 14.22                           |
|             | 20.0MHz BAND QPSK  | 100/0             | 2605.0          | 17.93                        | 19.01                           |
|             | 20.0MHz BAND 16QAM | 100/0             | 2605.0          | 17.92                        | 18.99                           |

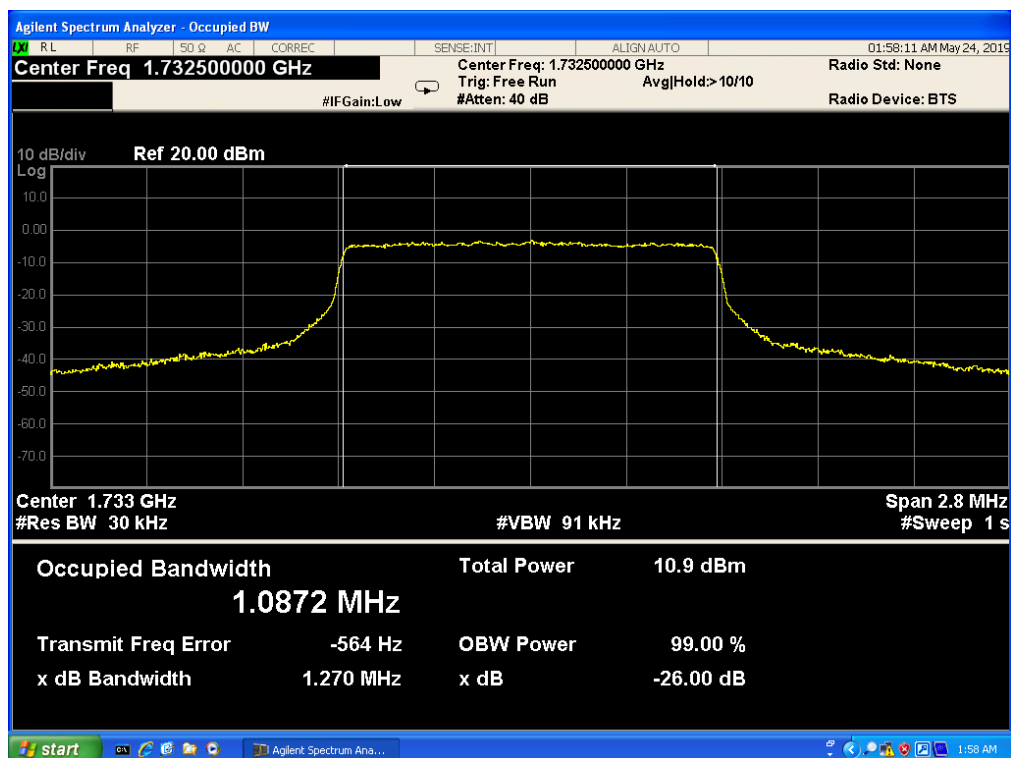
Note: This test was only measured at maximum RB allocation and at CENTER of band for each LTE BW

## 5.1 LTE BAND 4

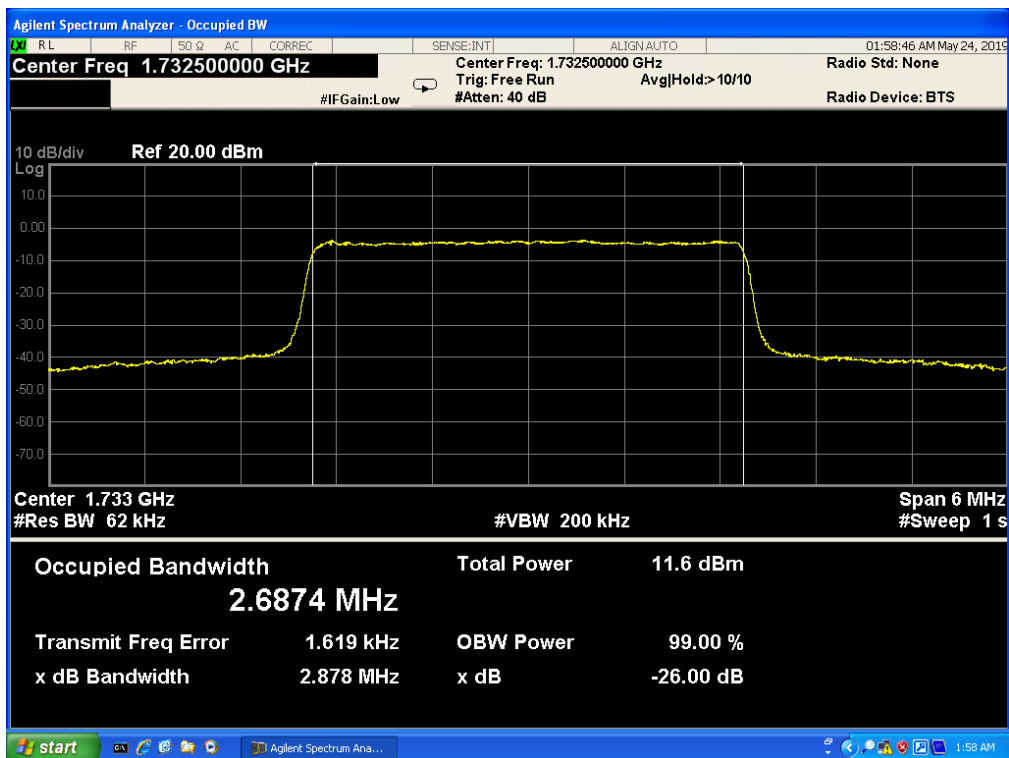
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,QPSK



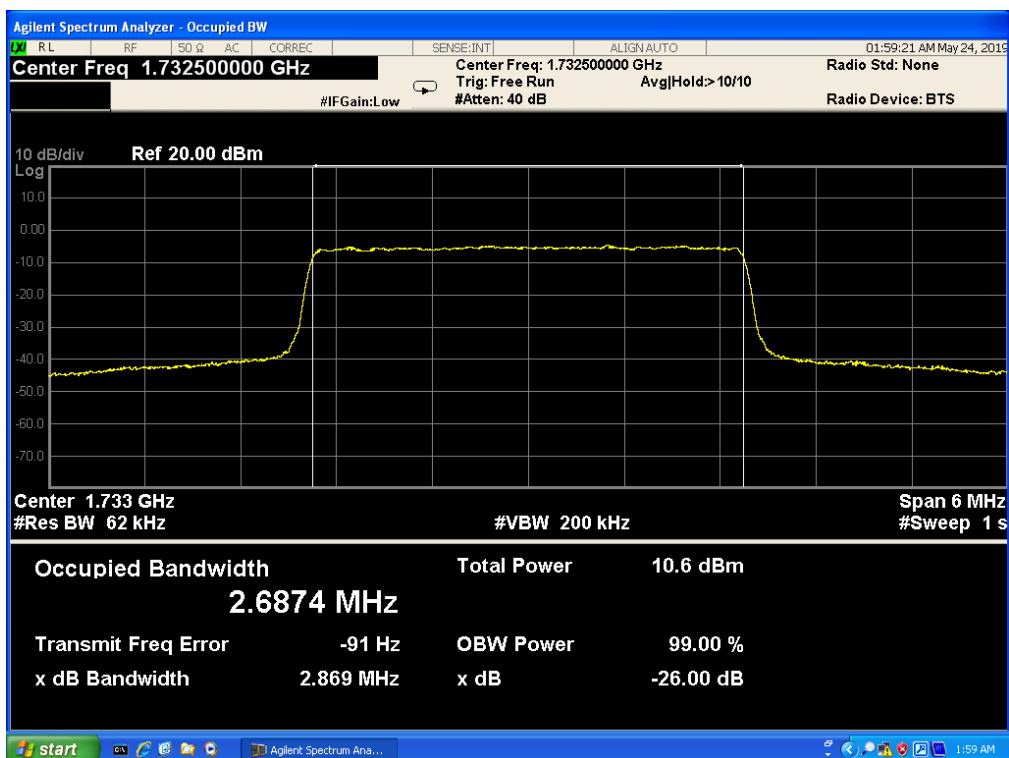
Band 4,UL Channel 20175,UL Frequency 1732.5,BW 1.4,NO. RB 6,RB POS. Low,16-QAM



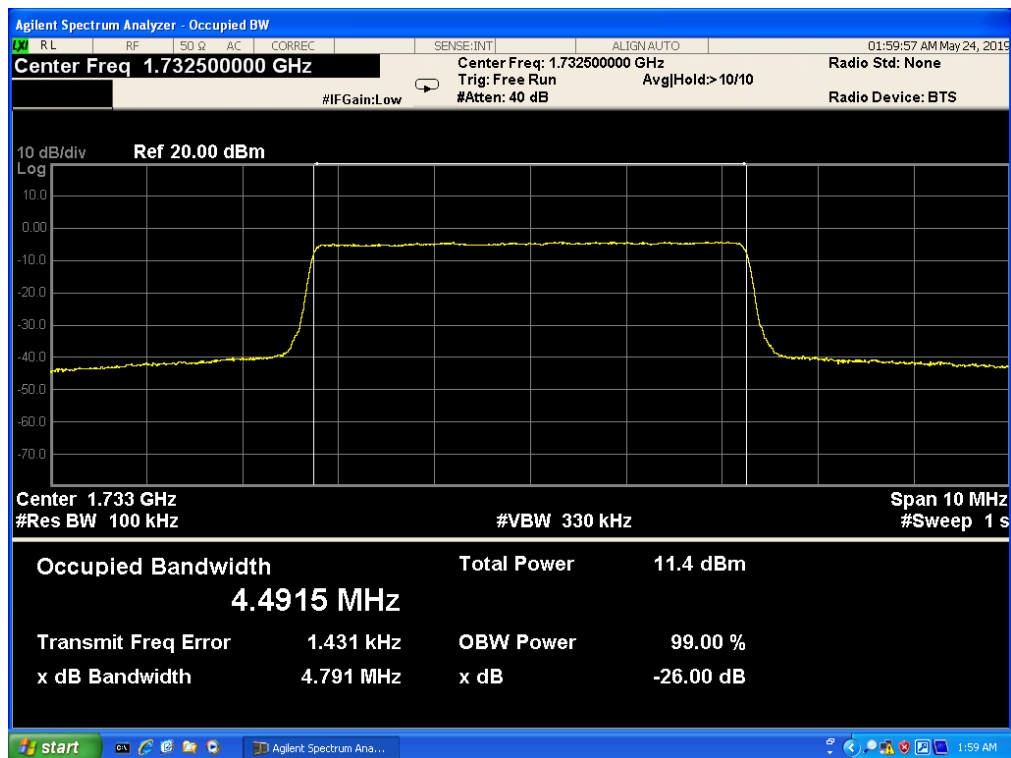
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



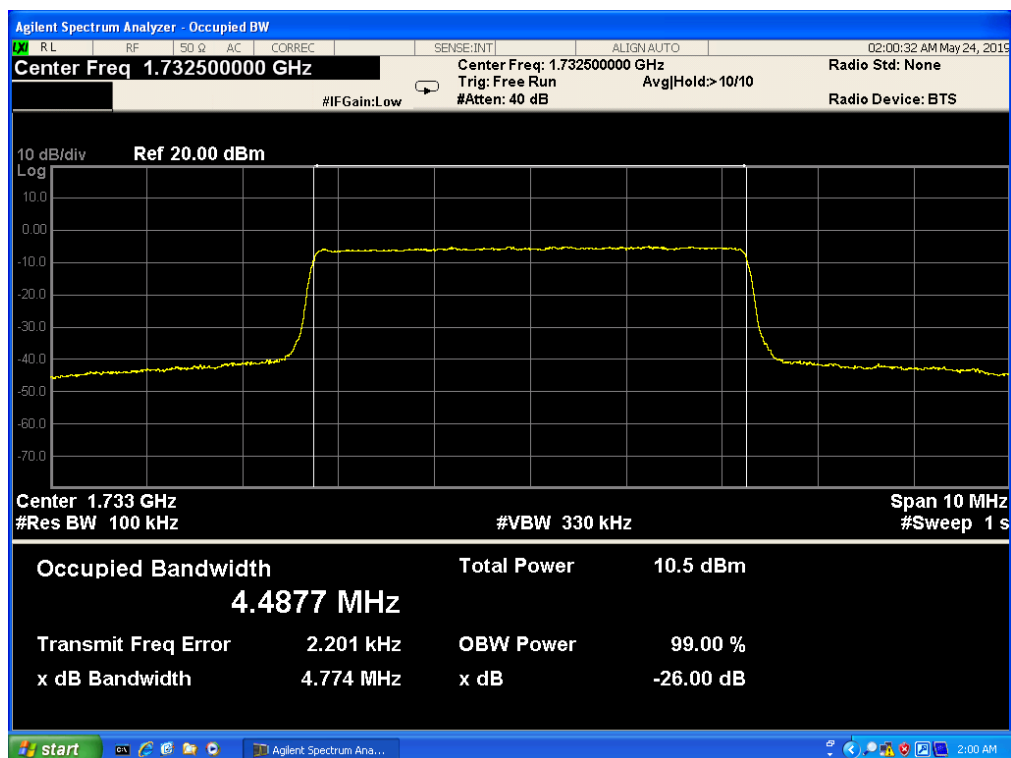
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



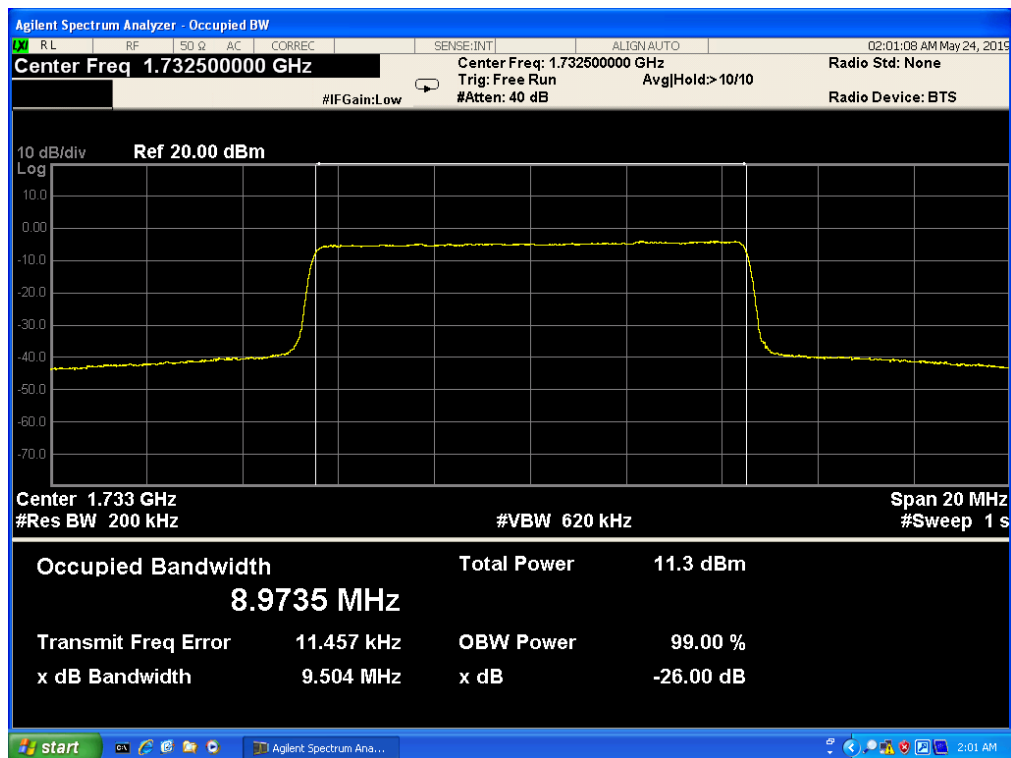
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



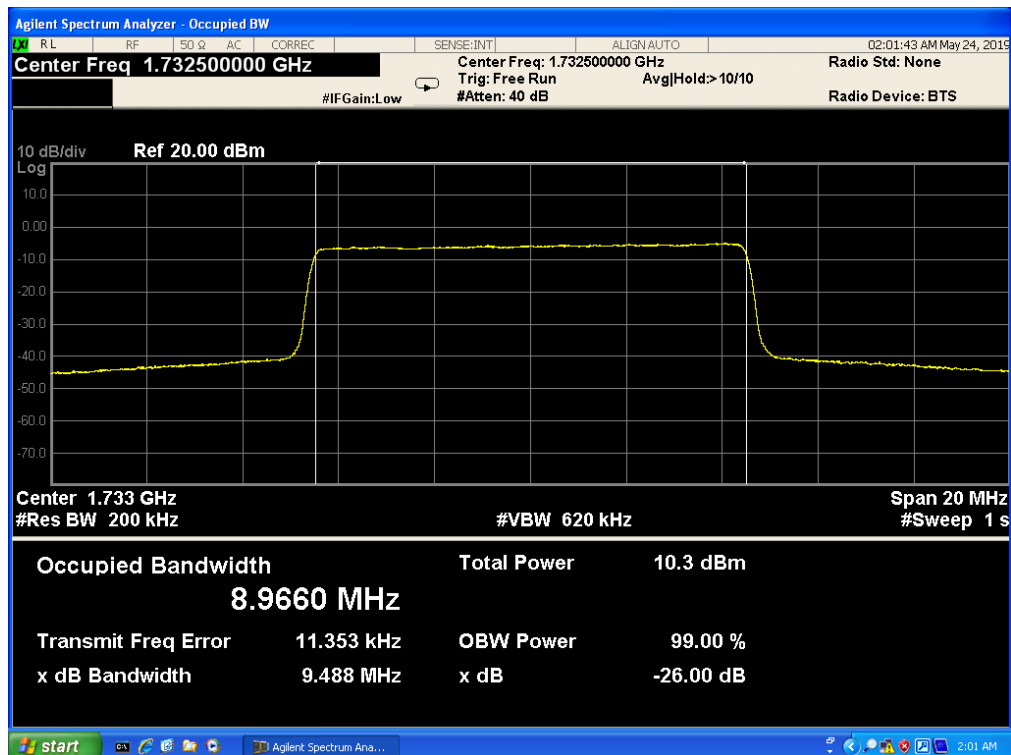
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



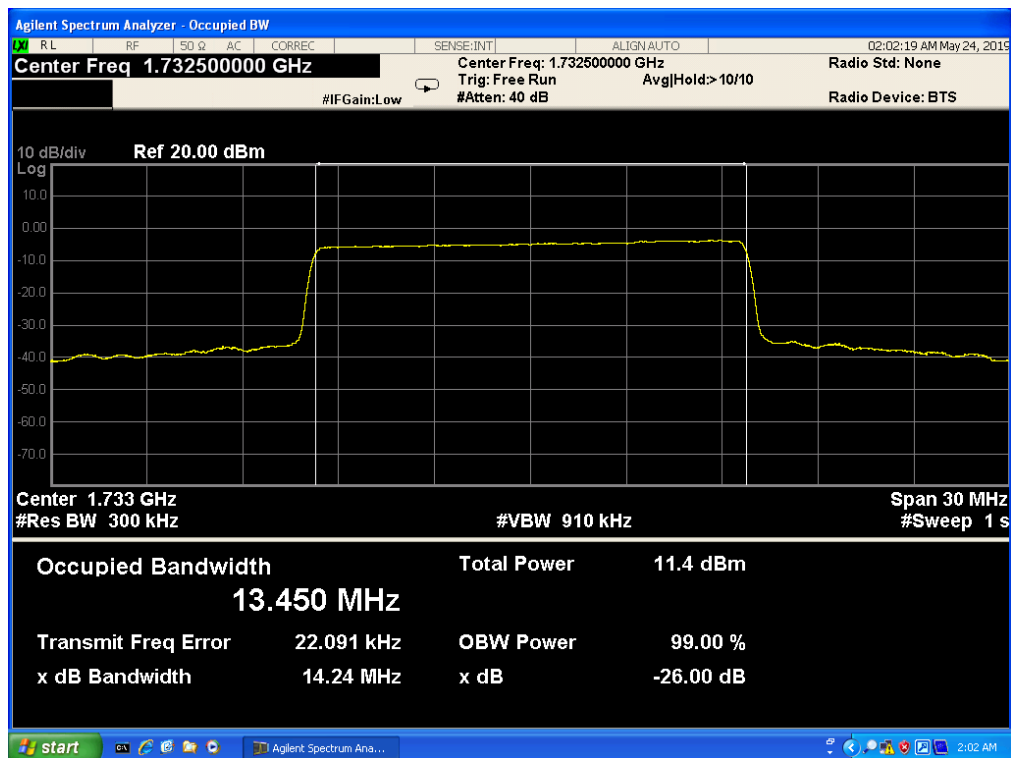
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 10.0, NO. RB 50, RB POS. Low, QPSK



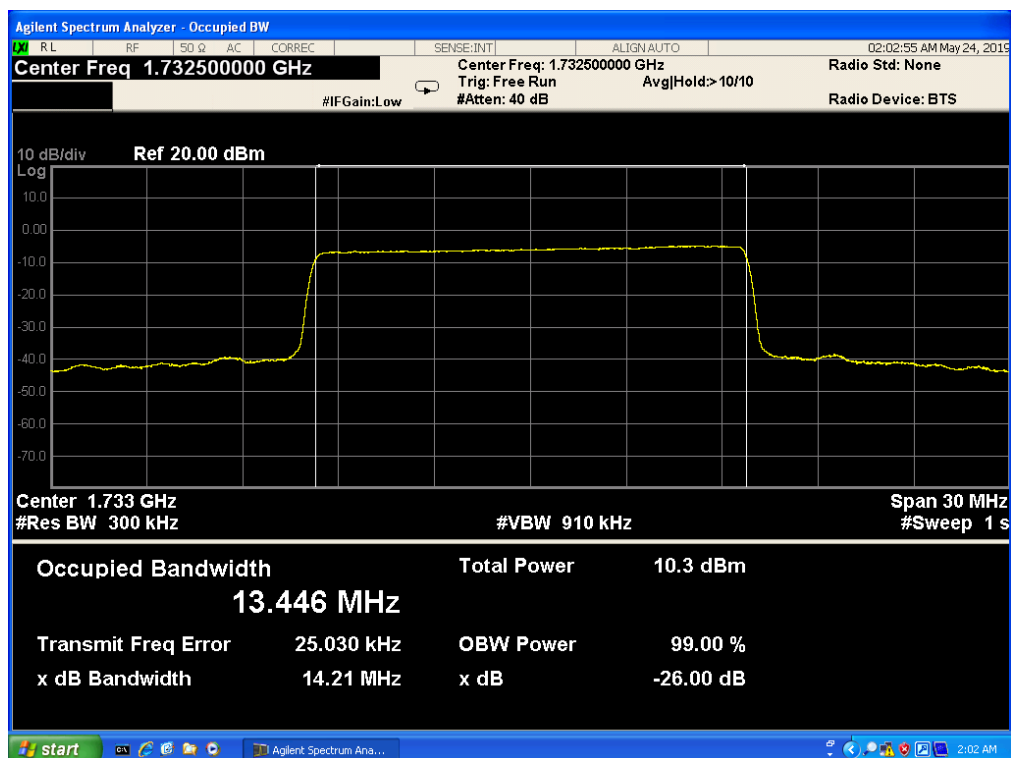
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



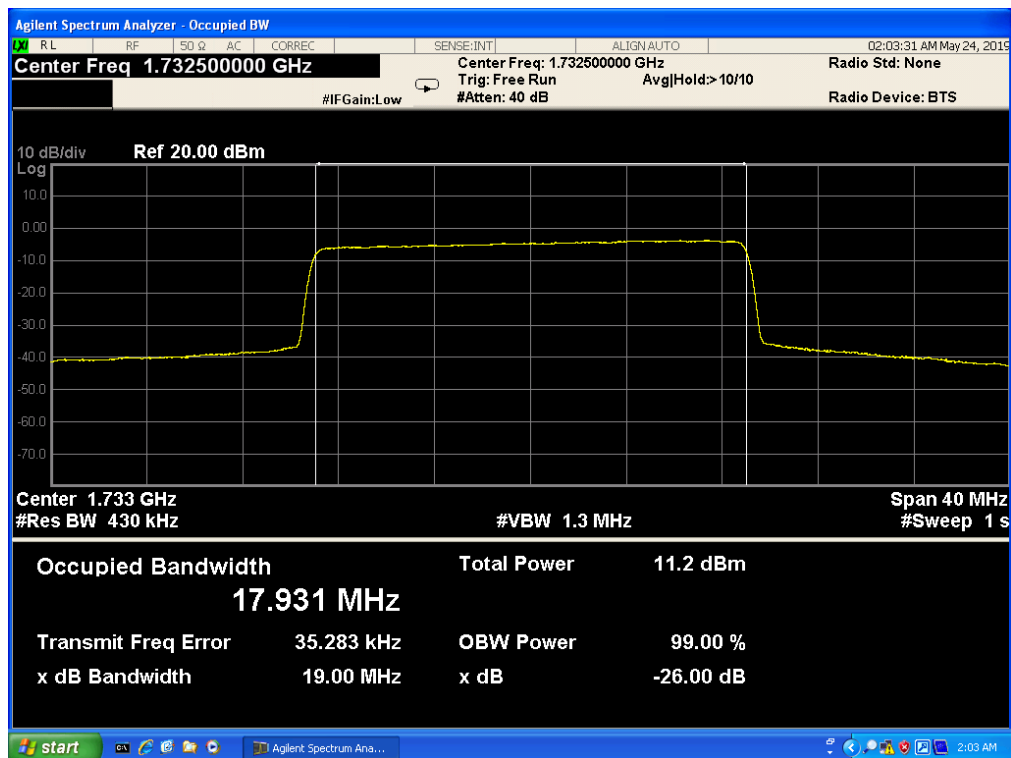
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



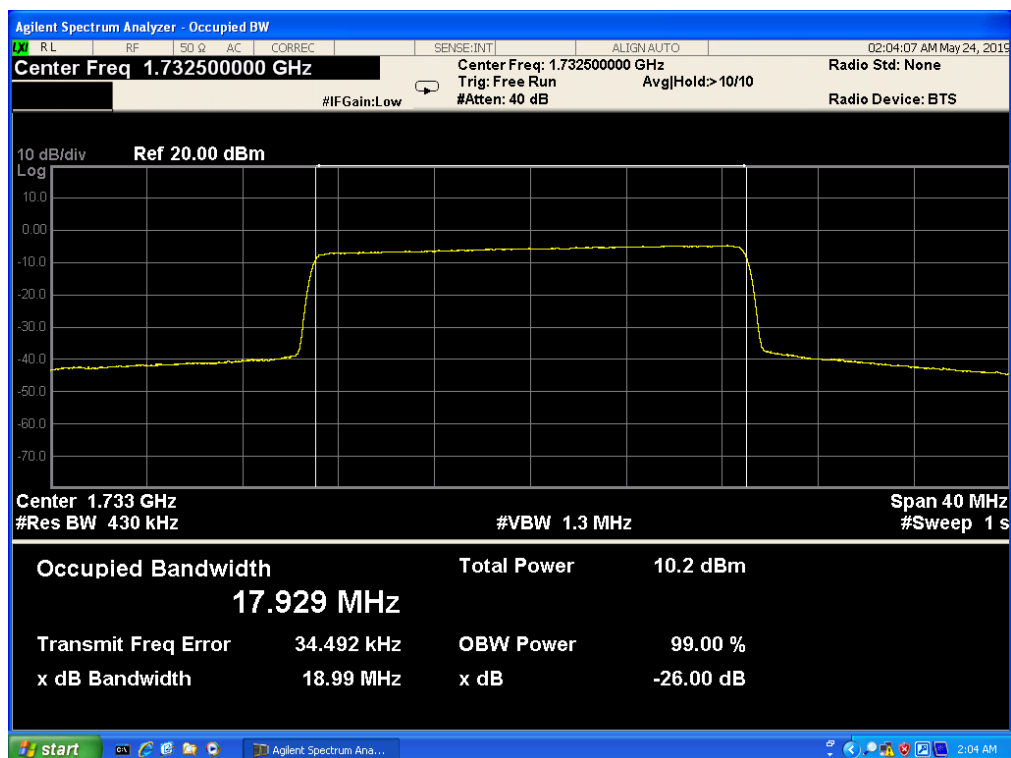
Band 4, UL Channel 20175, UL Frequency 1732.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



Band 4, UL Channel 20175, UL Frequency 1732.5, BW 20.0, NO. RB 100, RB POS. Low, QPSK

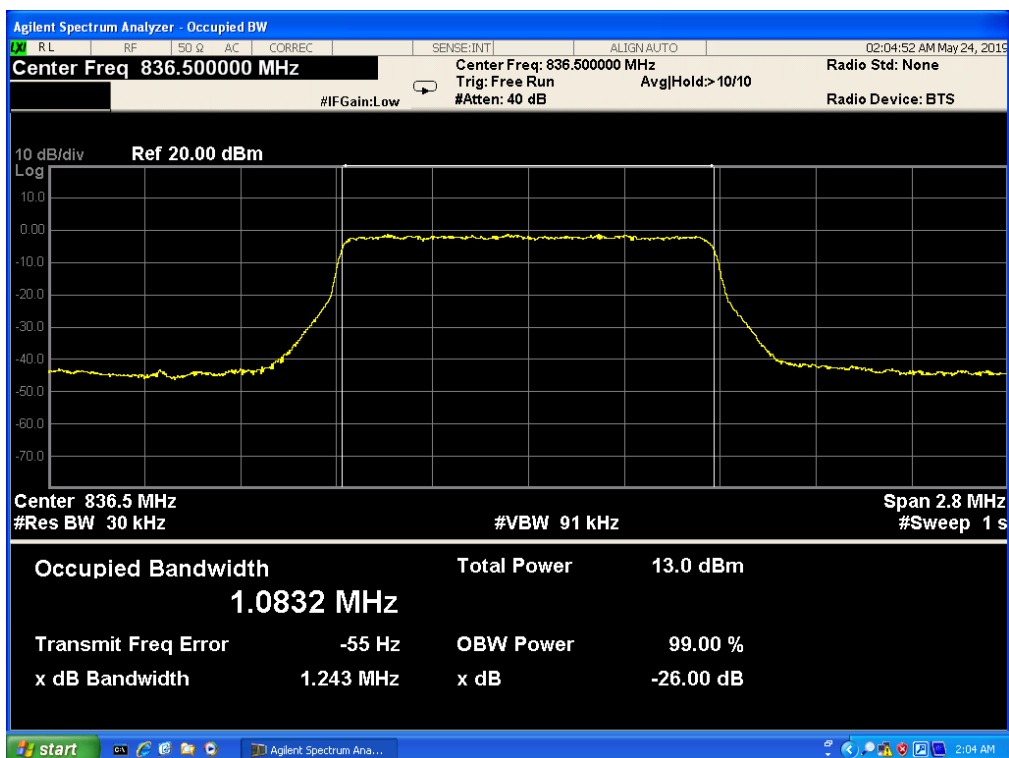


Band 4, UL Channel 20175, UL Frequency 1732.5, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

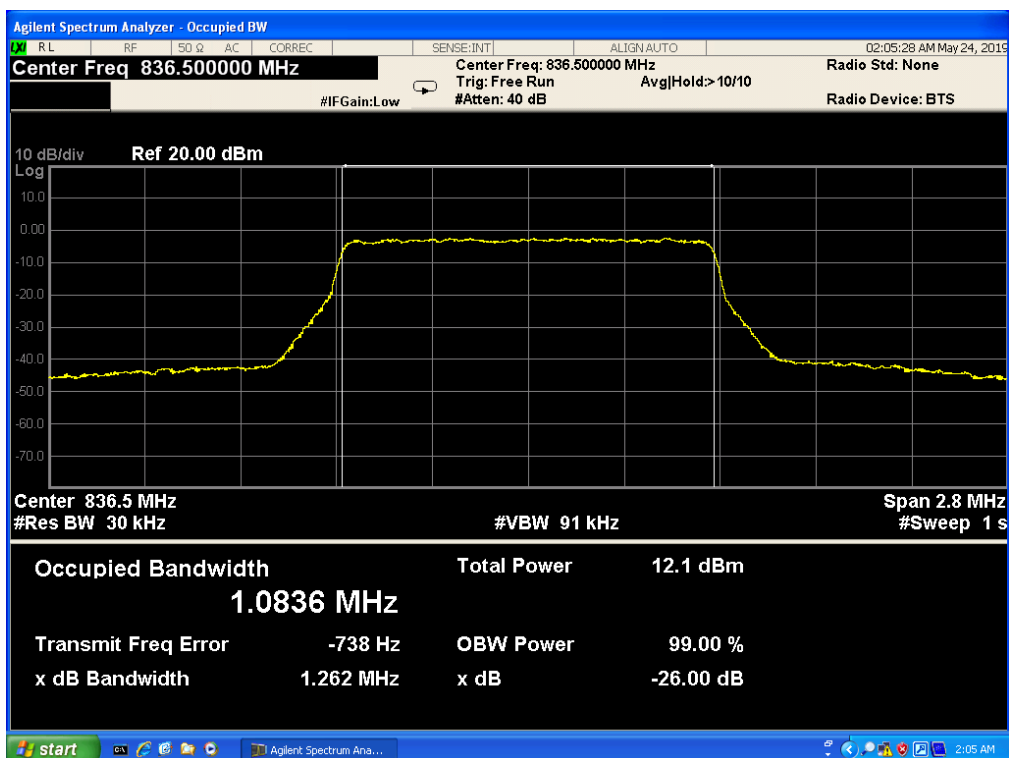


## 5.2 LTE BAND 5

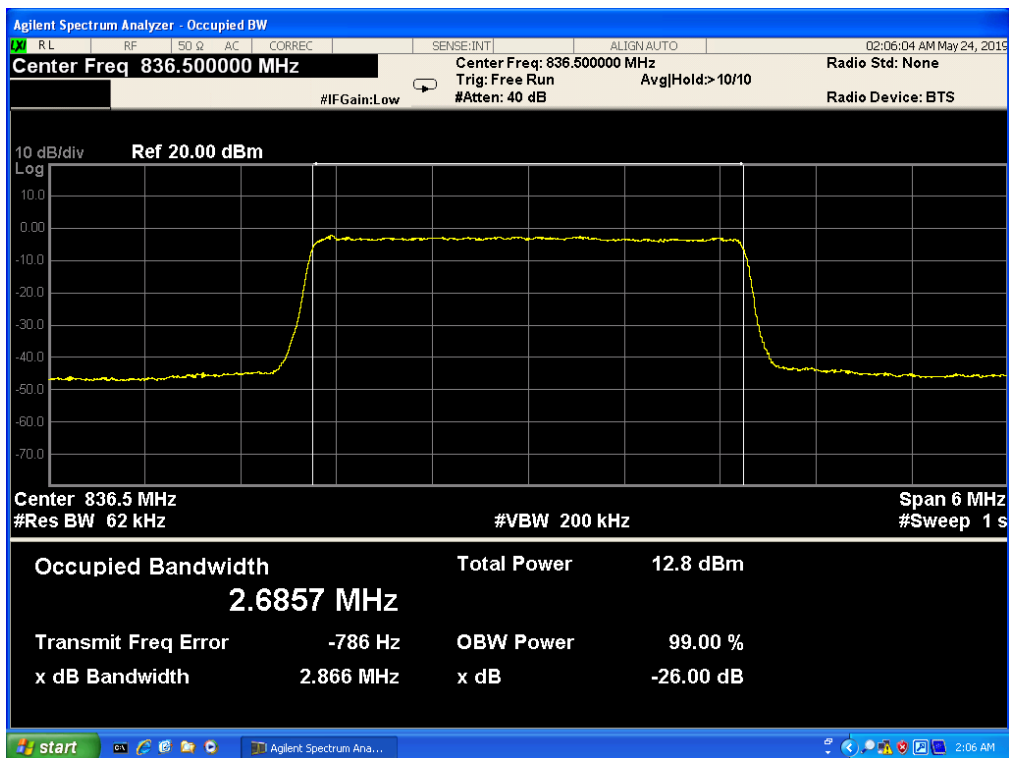
*Band 5, UL Channel 20525, UL Frequency 836.5, BW 1.4, NO. RB 6, RB POS. Low, QPSK*



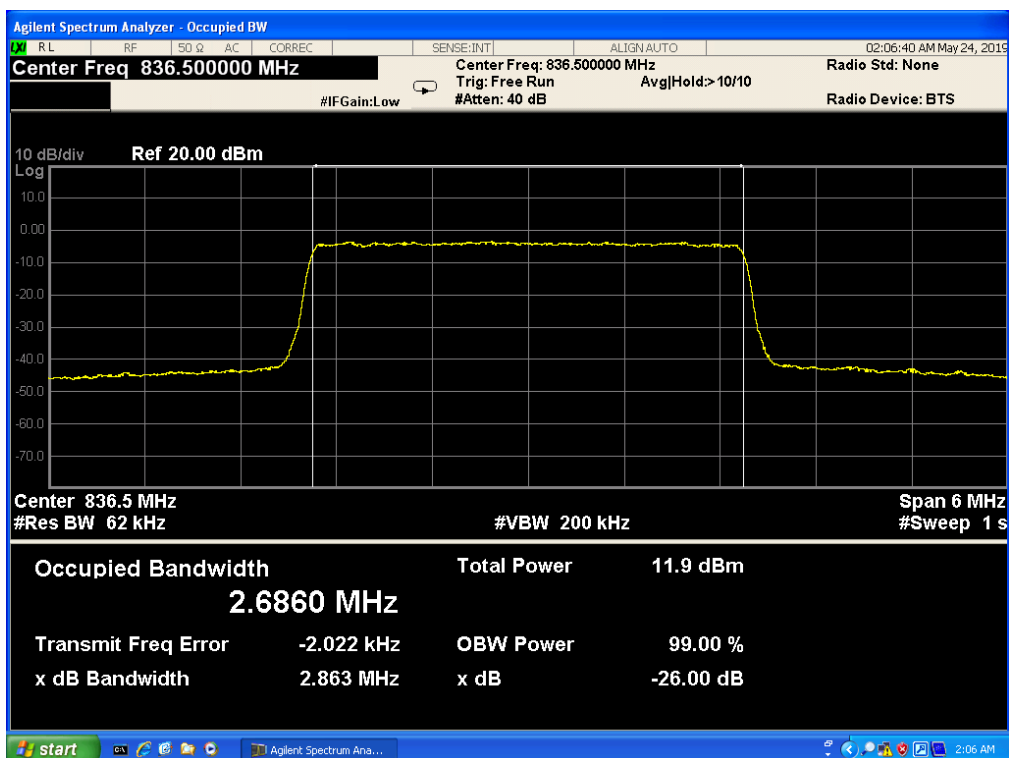
*Band 5, UL Channel 20525, UL Frequency 836.5, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM*



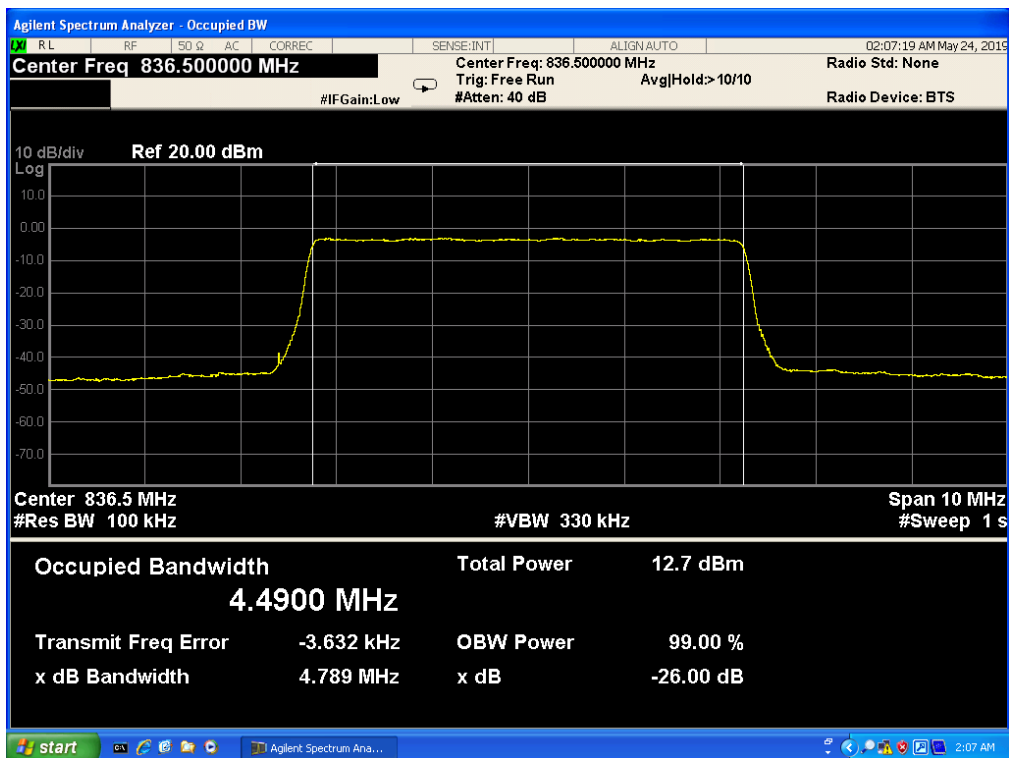
Band 5, UL Channel 20525, UL Frequency 836.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



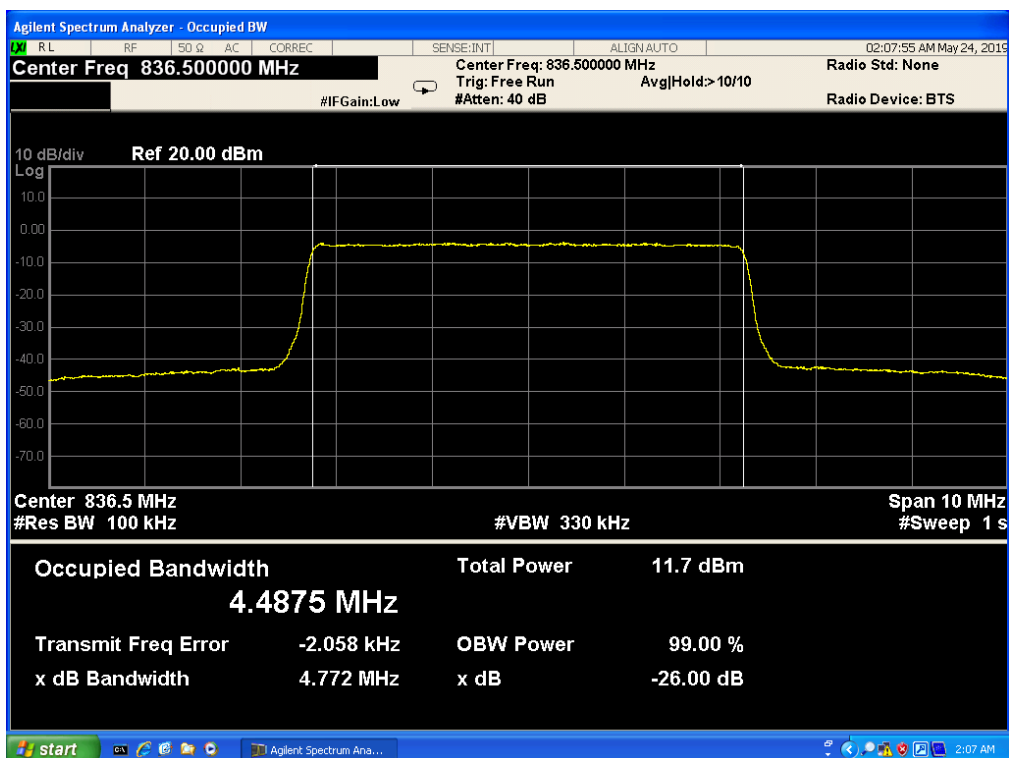
Band 5, UL Channel 20525, UL Frequency 836.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



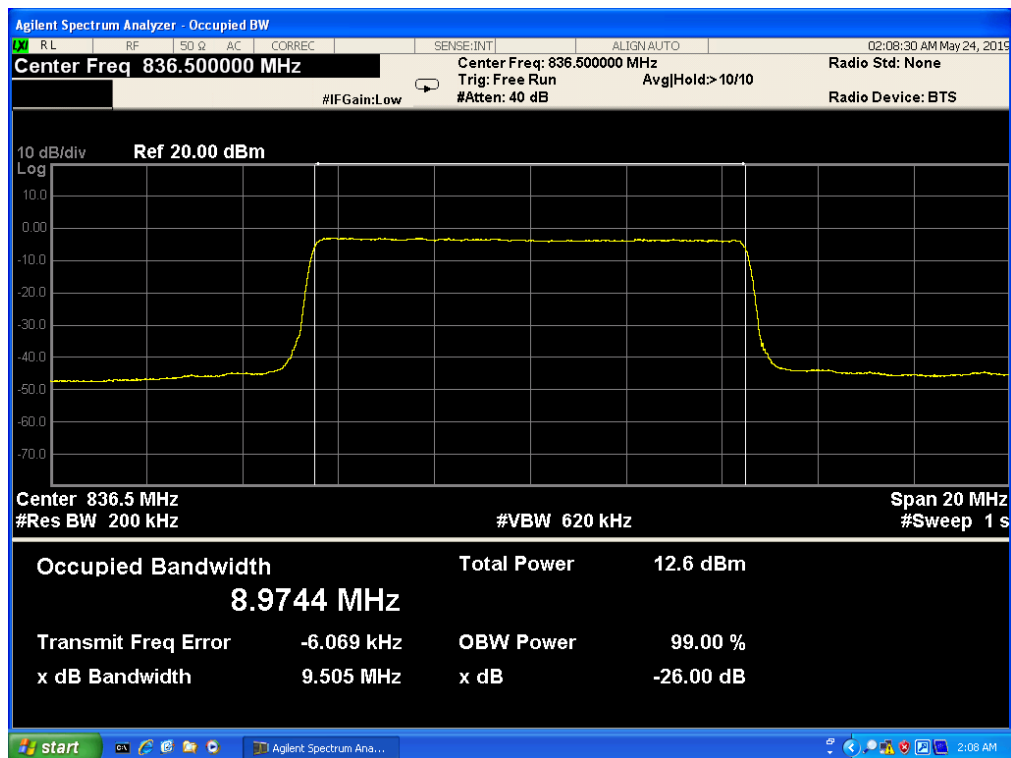
Band 5, UL Channel 20525, UL Frequency 836.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



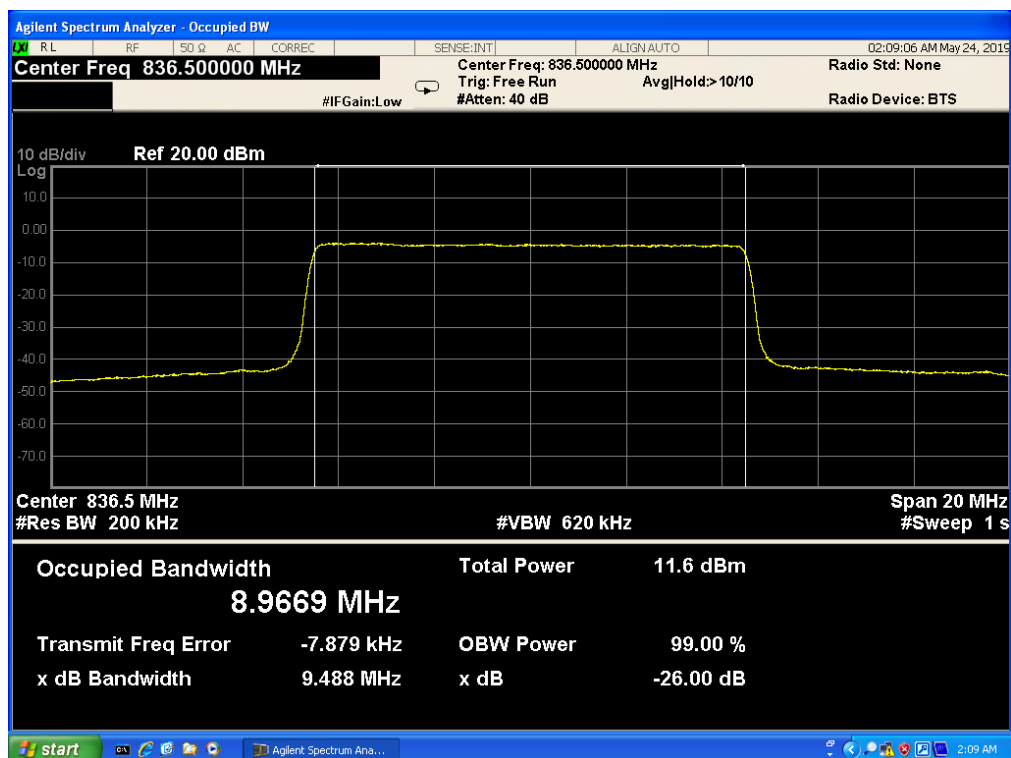
Band 5, UL Channel 20525, UL Frequency 836.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



Band 5, UL Channel 20525, UL Frequency 836.5, BW 10.0, NO. RB 50, RB POS. Low, QPSK

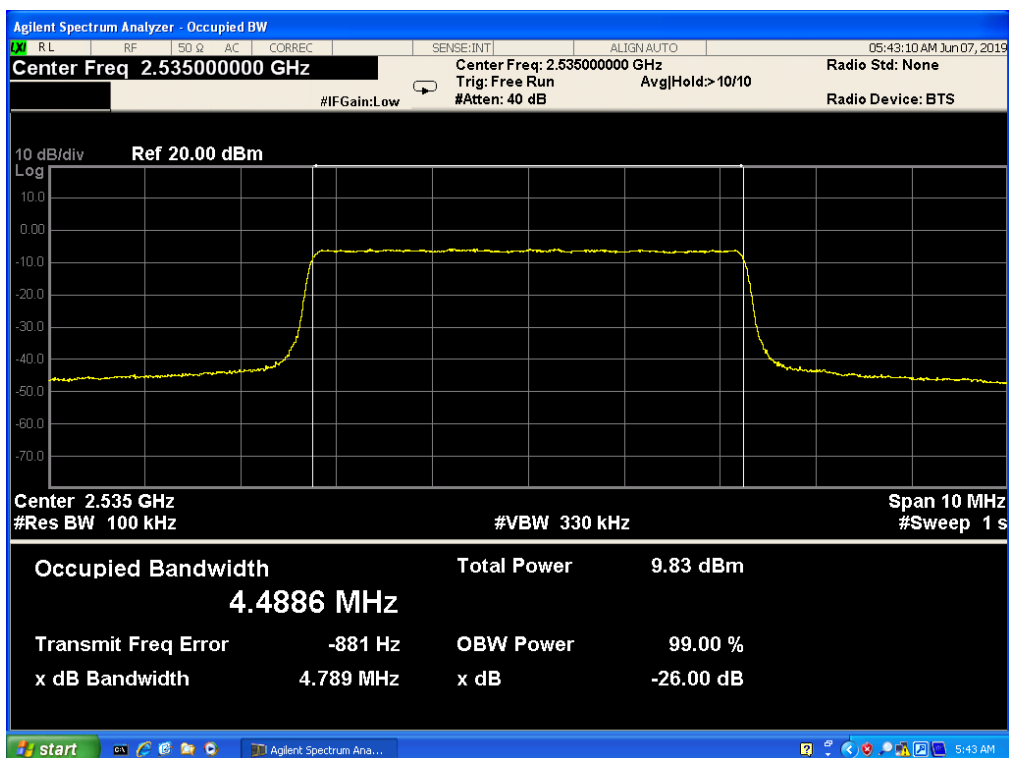


Band 5, UL Channel 20525, UL Frequency 836.5, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

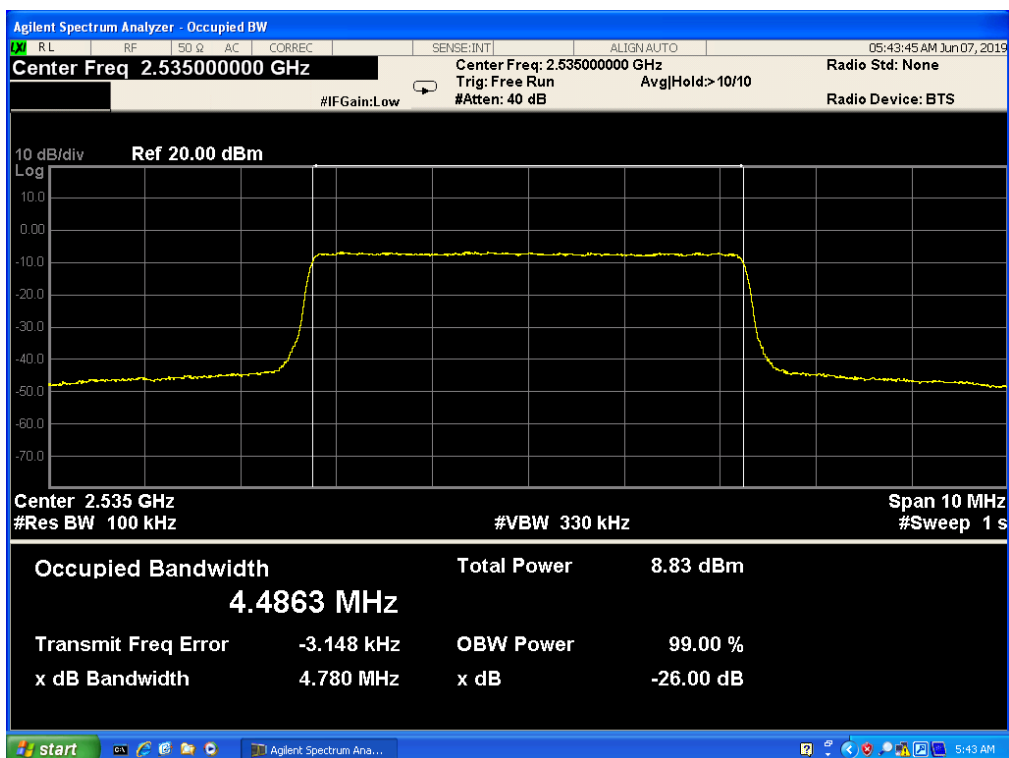


### 5.3 LTE BAND 7

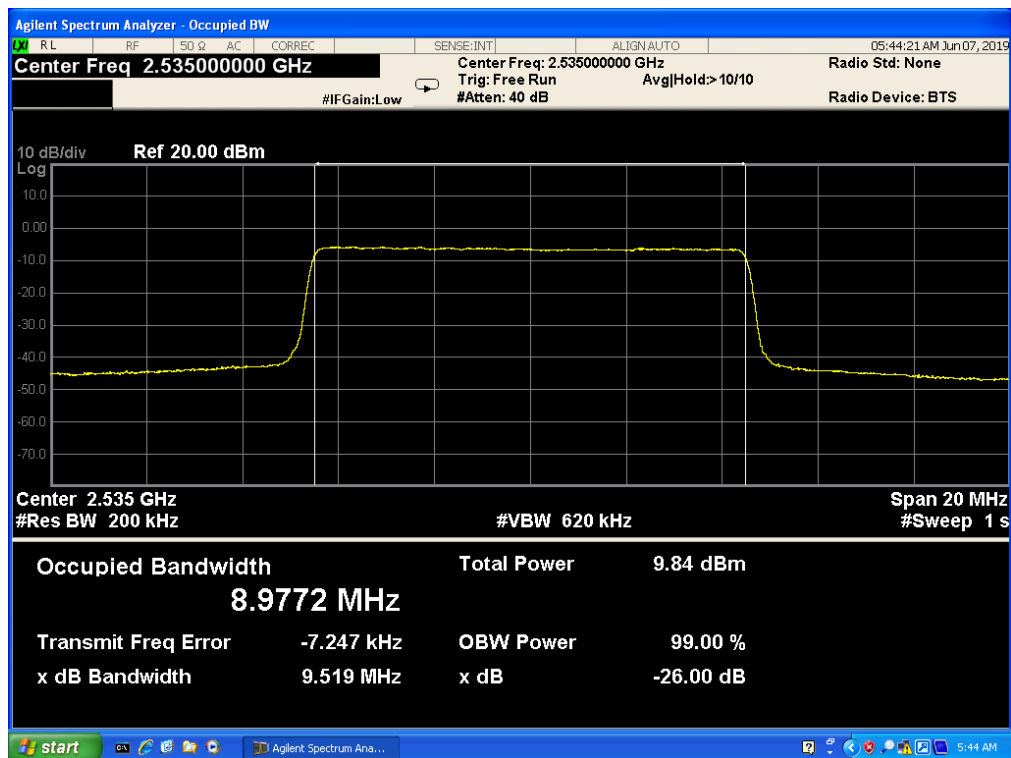
*Band 7, UL Channel 21100, UL Frequency 2535.0, BW 5.0, NO. RB 25, RB POS. Low, QPSK*



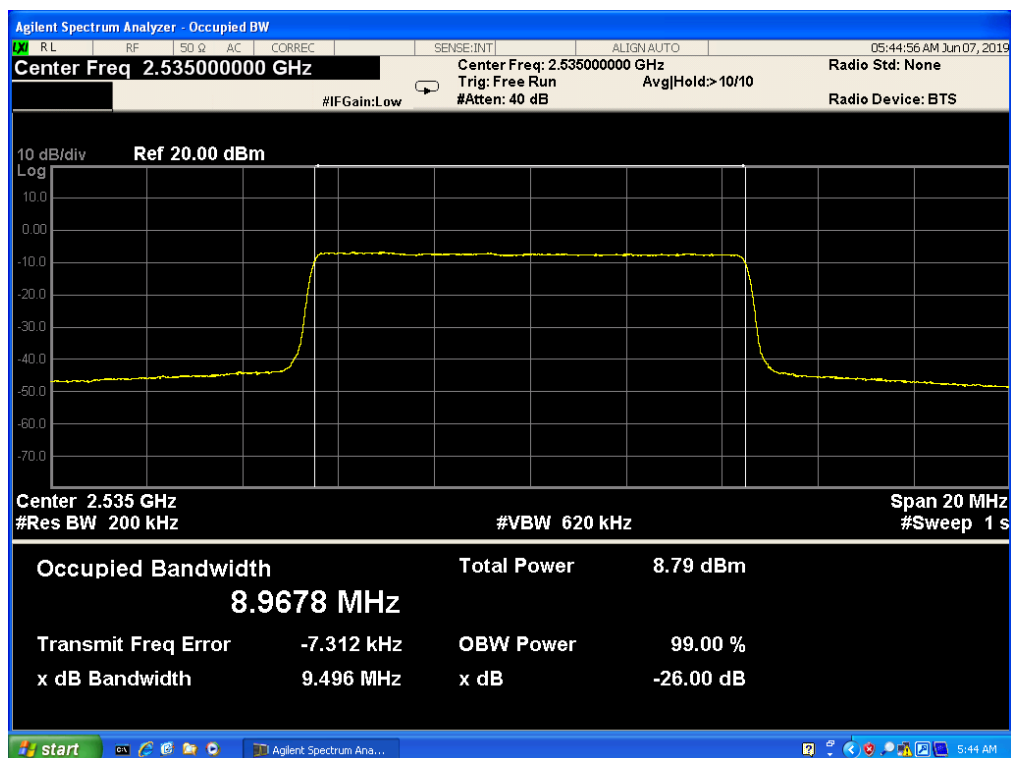
*Band 7, UL Channel 21100, UL Frequency 2535.0, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM*



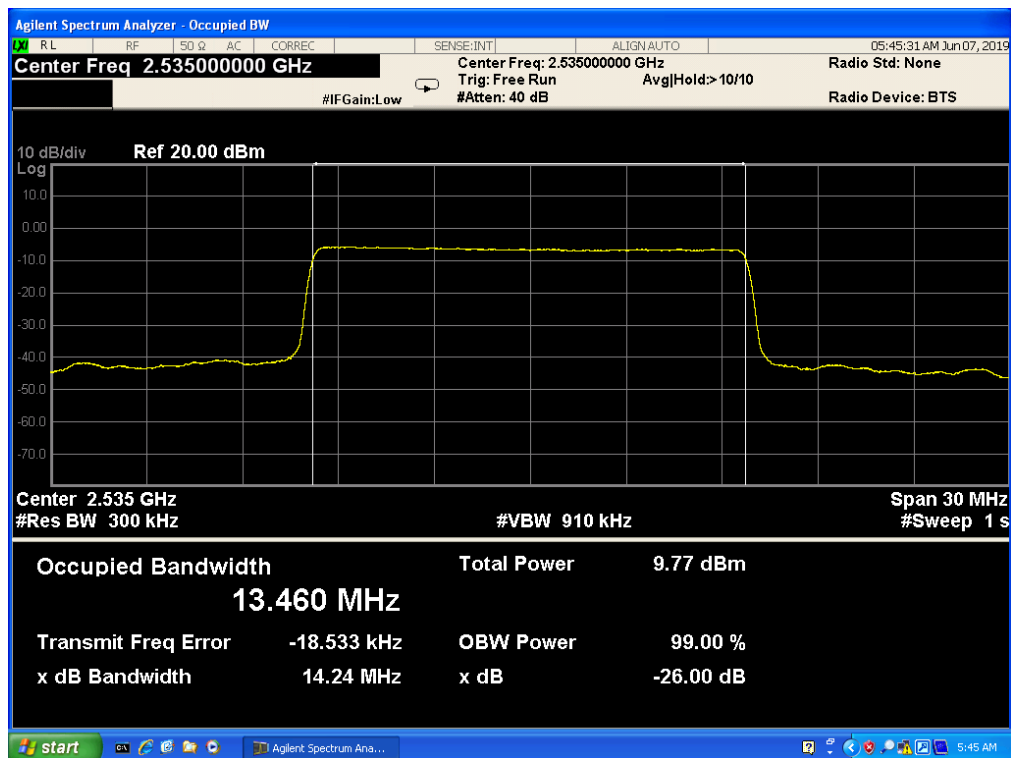
Band 7, UL Channel 21100, UL Frequency 2535.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



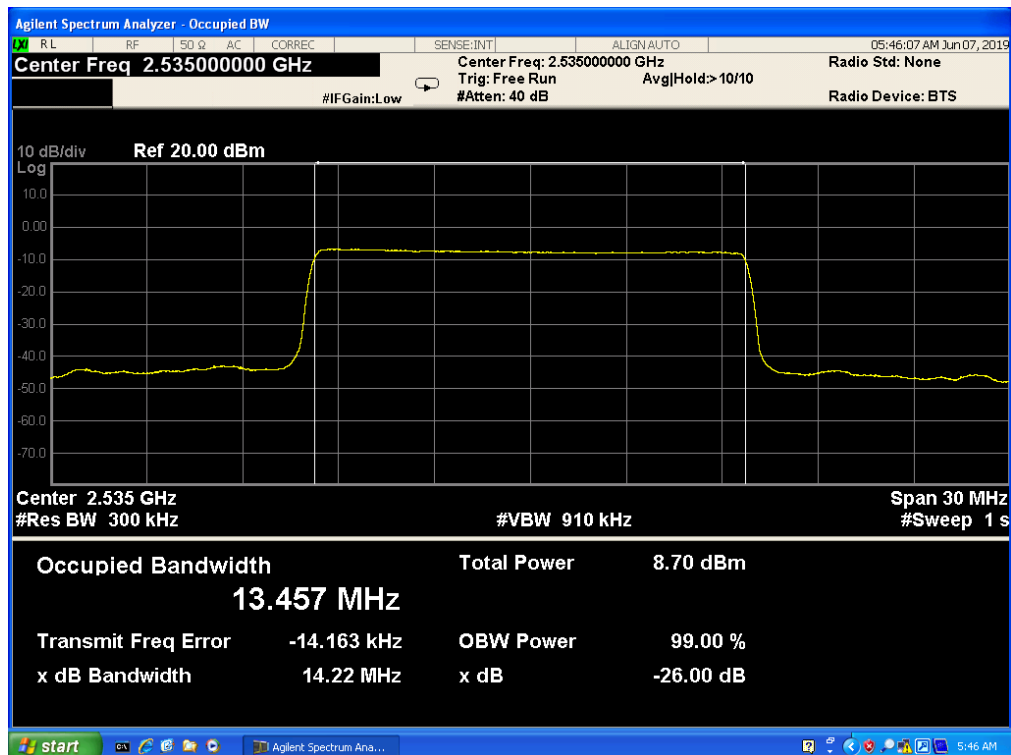
Band 7, UL Channel 21100, UL Frequency 2535.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



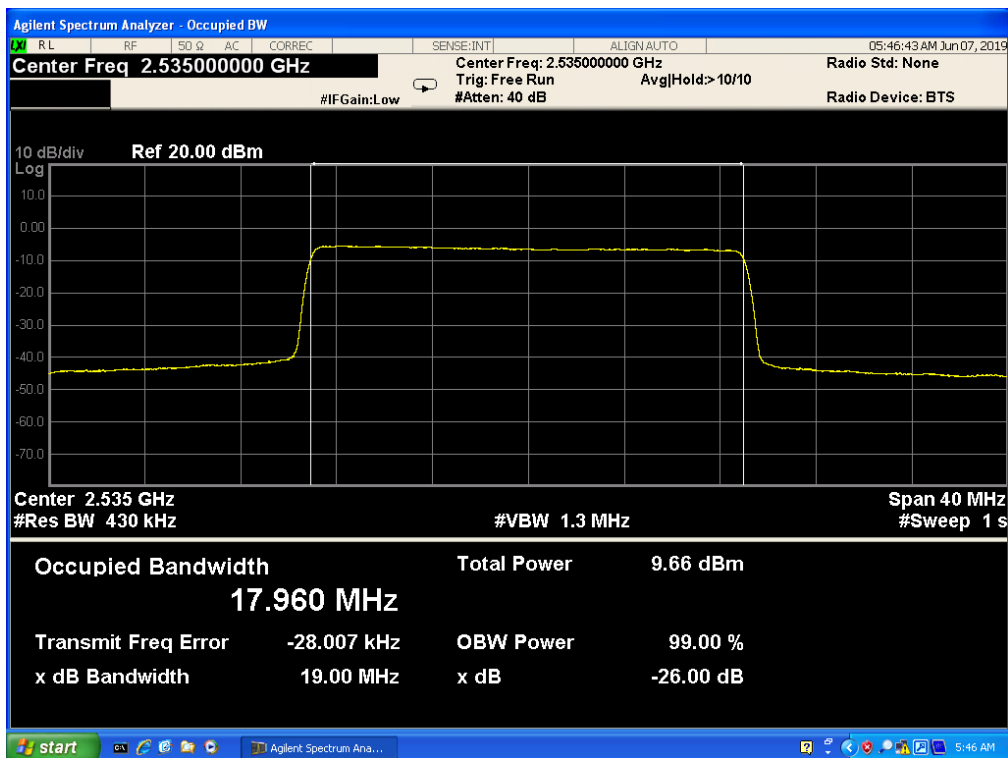
Band 7, UL Channel 21100, UL Frequency 2535.0, BW 15.0, NO. RB 75, RB POS. Low, QPSK



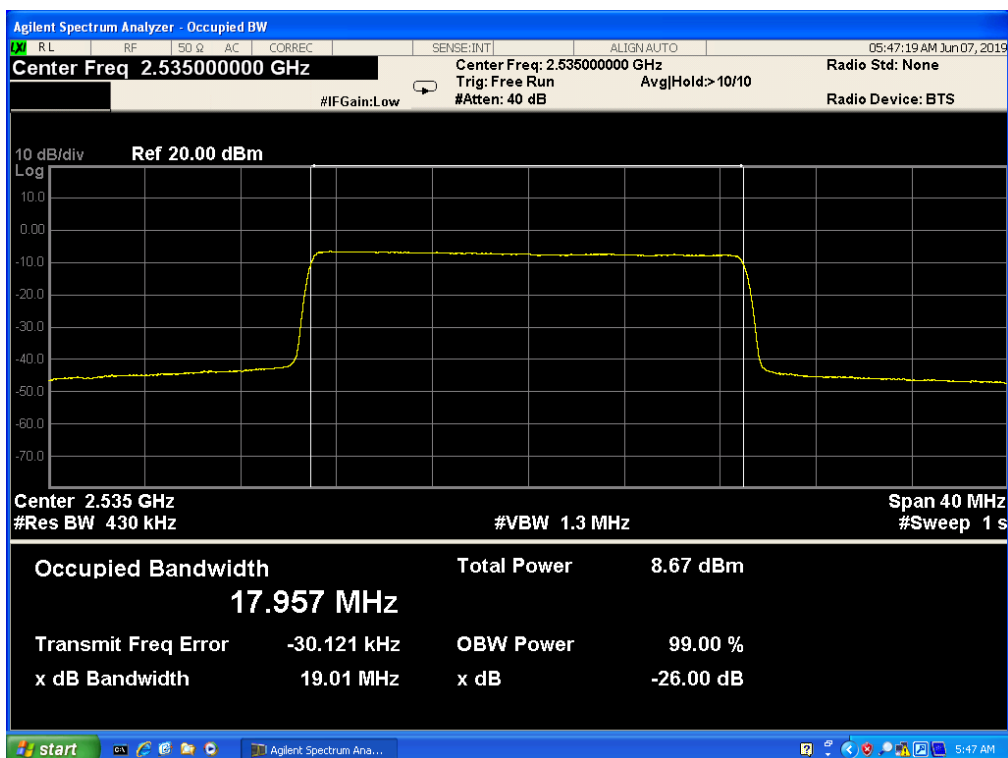
Band 7, UL Channel 21100, UL Frequency 2535.0, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



Band 7, UL Channel 21100, UL Frequency 2535.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK

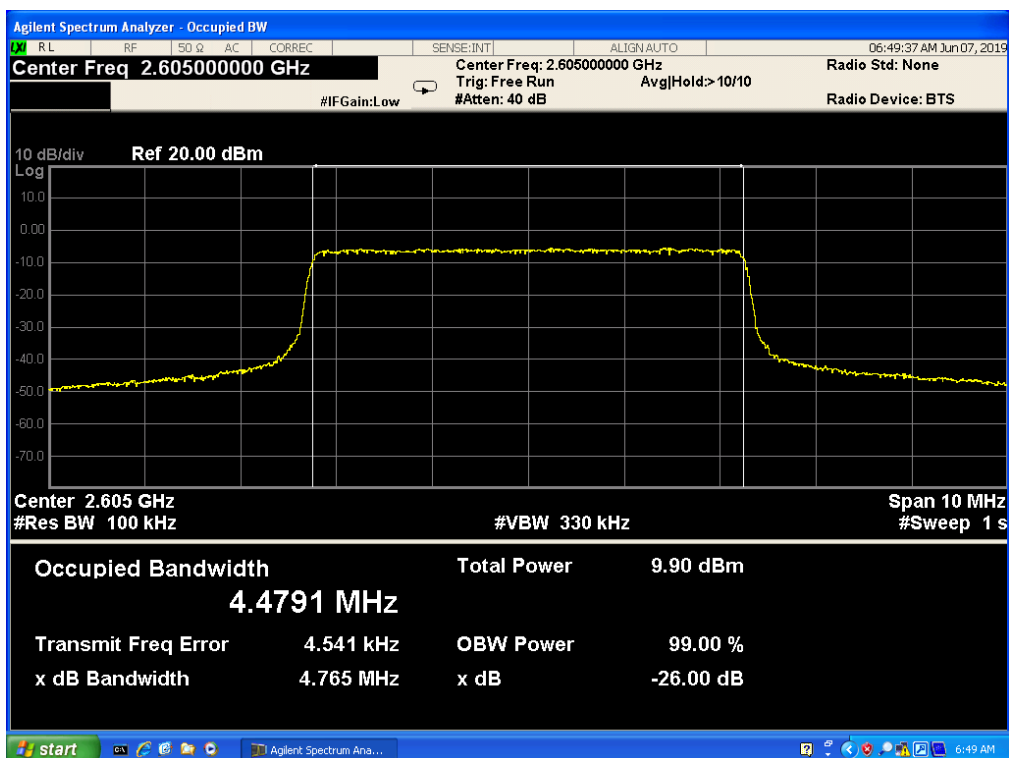


Band 7, UL Channel 21100, UL Frequency 2535.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

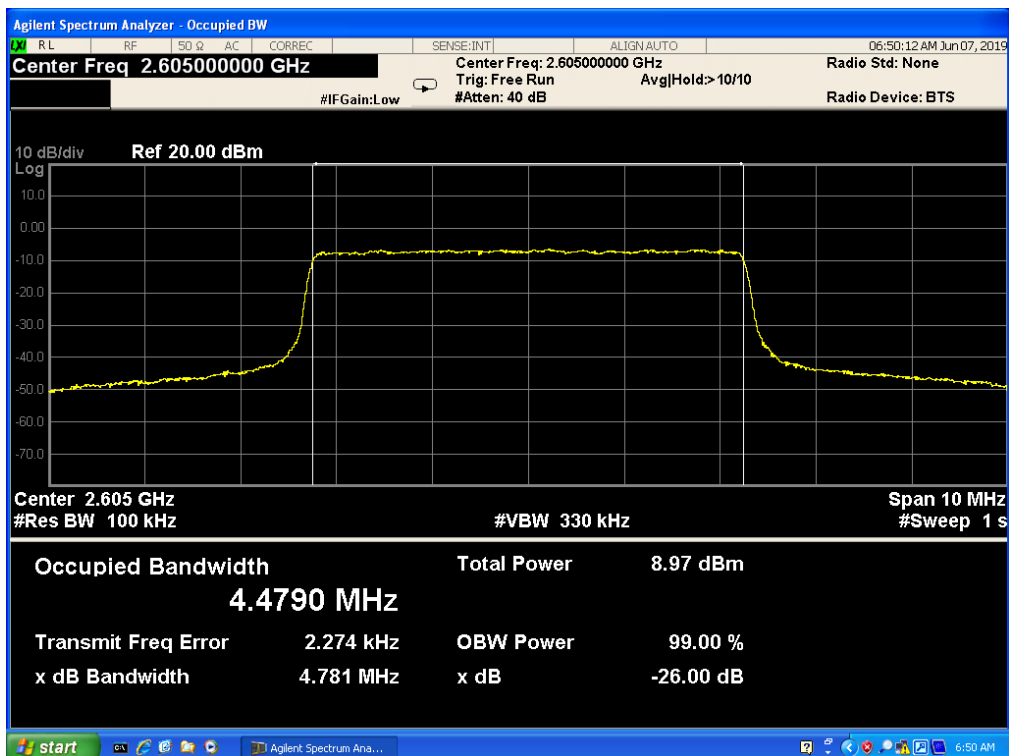


## 5.4 LTE BAND 41

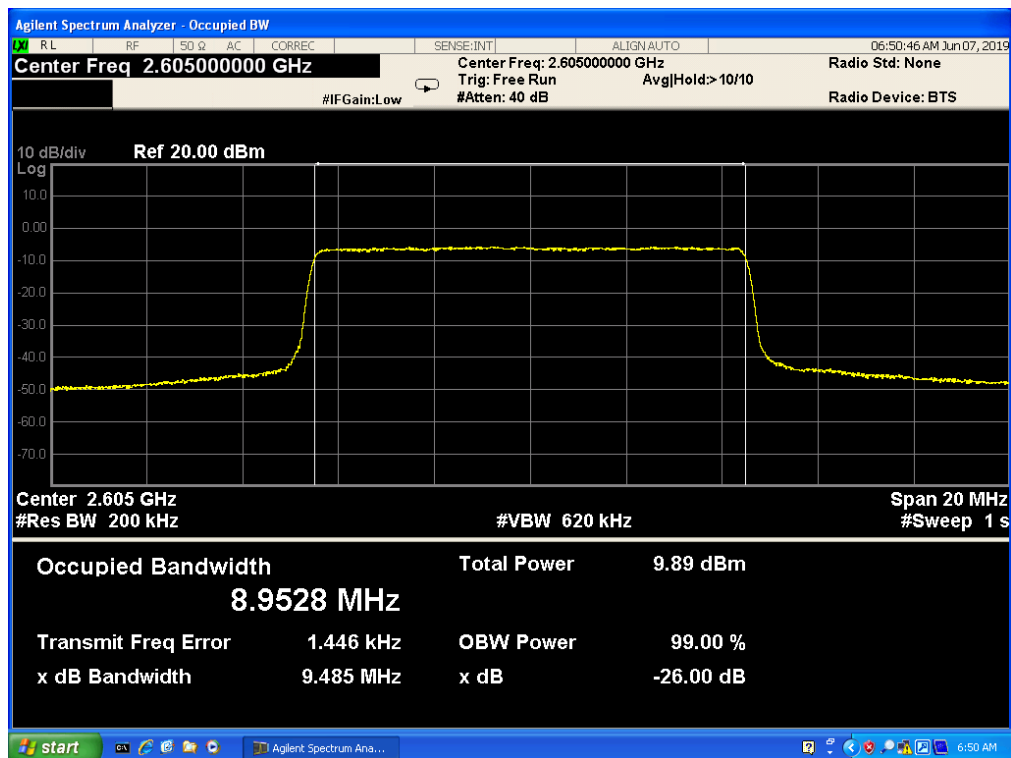
Band 41,UL Channel 40740,UL Frequency 2605.0,BW 5.0,NO. RB 25,RB POS. Low,QPSK



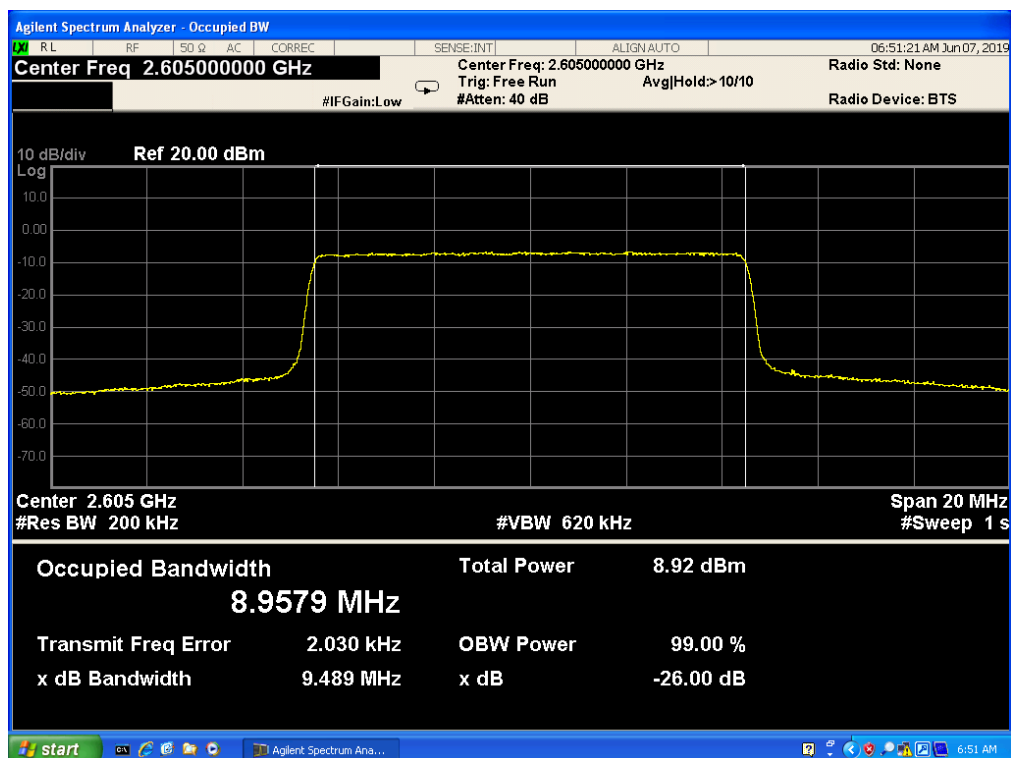
Band 41,UL Channel 40740,UL Frequency 2605.0,BW 5.0,NO. RB 25,RB POS. Low,16-QAM



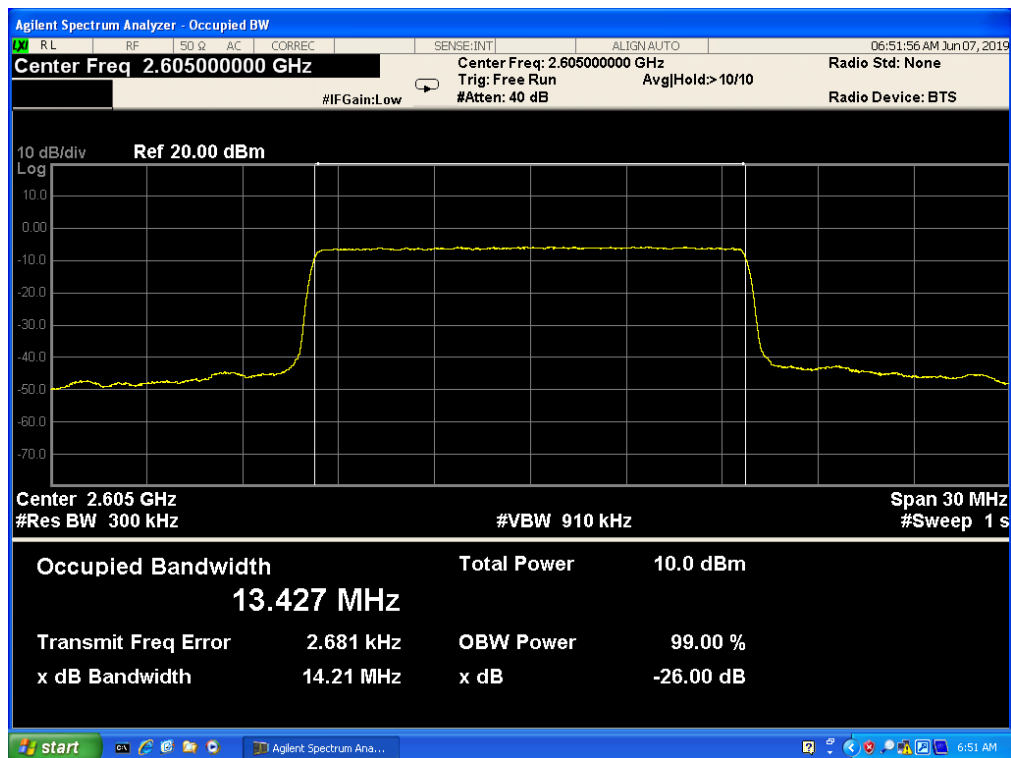
Band 41, UL Channel 40740, UL Frequency 2605.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



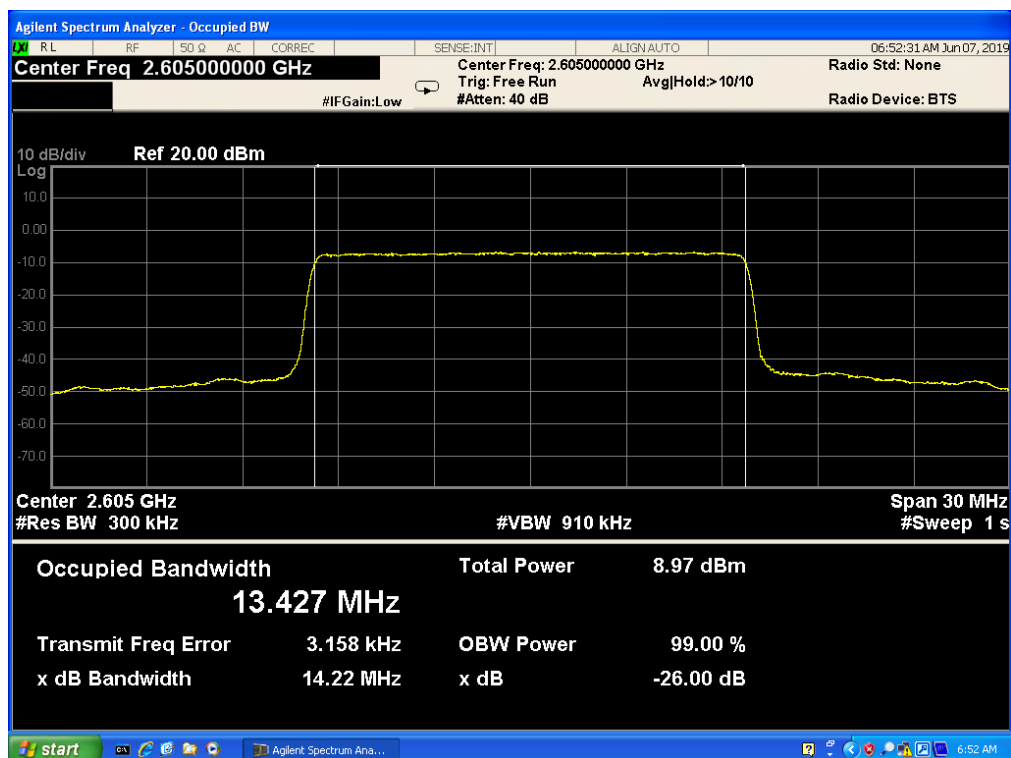
Band 41, UL Channel 40740, UL Frequency 2605.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



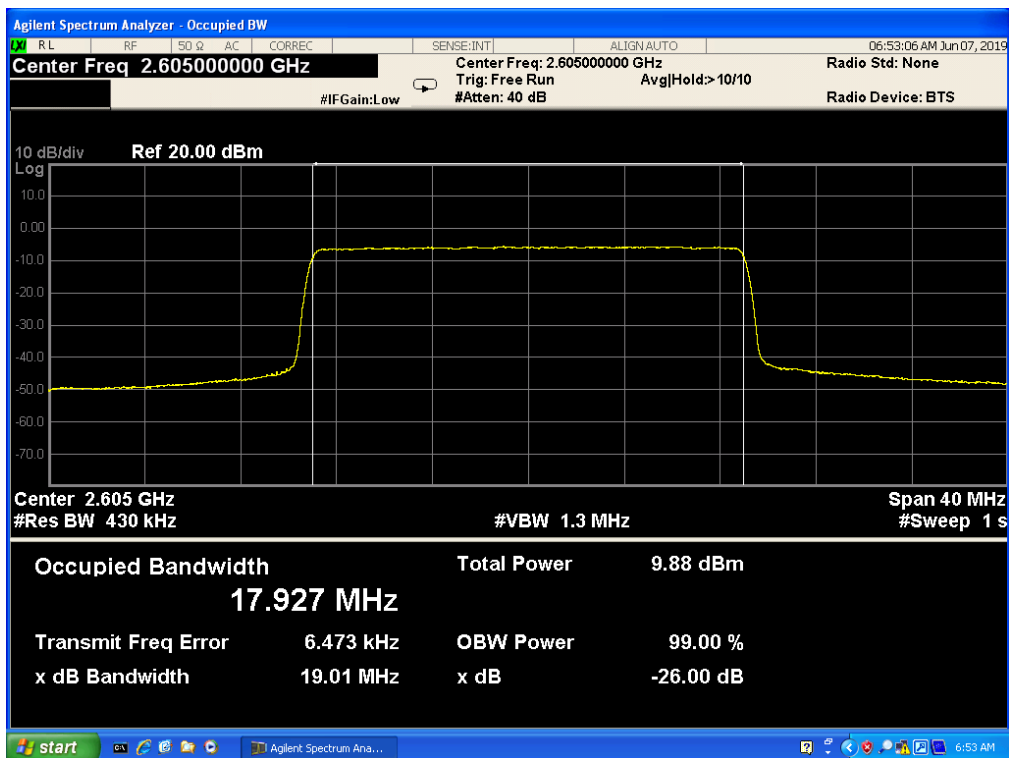
Band 41, UL Channel 40740, UL Frequency 2605.0, BW 15.0, NO. RB 75, RB POS. Low, QPSK



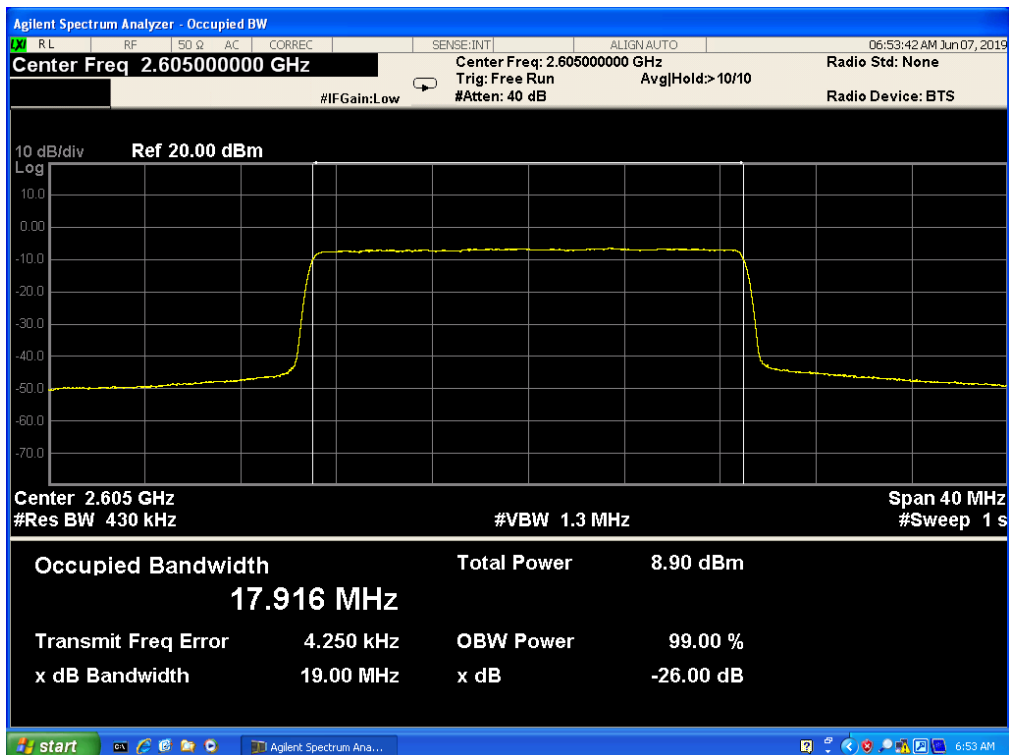
Band 41, UL Channel 40740, UL Frequency 2605.0, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



Band 41, UL Channel 40740, UL Frequency 2605.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 41, UL Channel 40740, UL Frequency 2605.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



## 6. BANDEDGE AND EMISSION MASK

### RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691

FCC: §22.359

### LIMITS

FCC: §22.359, §24.238,

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

### TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency (704, 716, 824, 849, 1710 and 1755, 1850 and 1910 MHz)

Set a marker to point the corresponding band edge frequency in each test case.

Set display line at -13 dBm

Set resolution bandwidth to at least 1% of emission bandwidth.

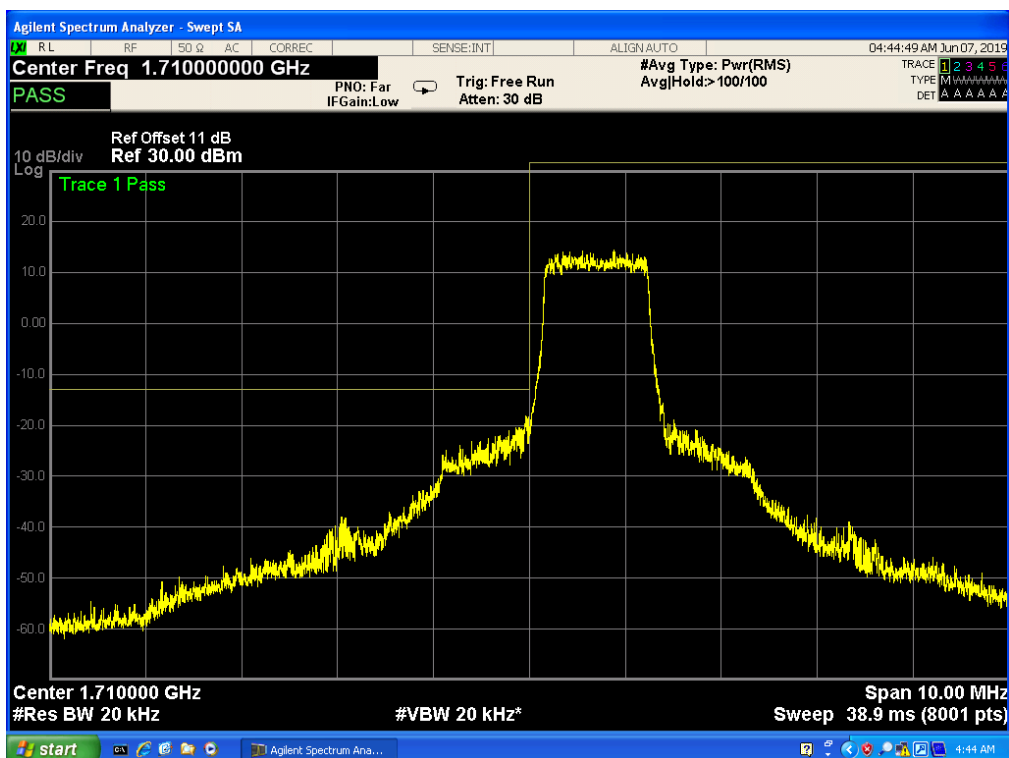
### MODES TESTED

LTE Band 4  
 LTE Band 5  
 LTE Band 7  
 LTE Band 41

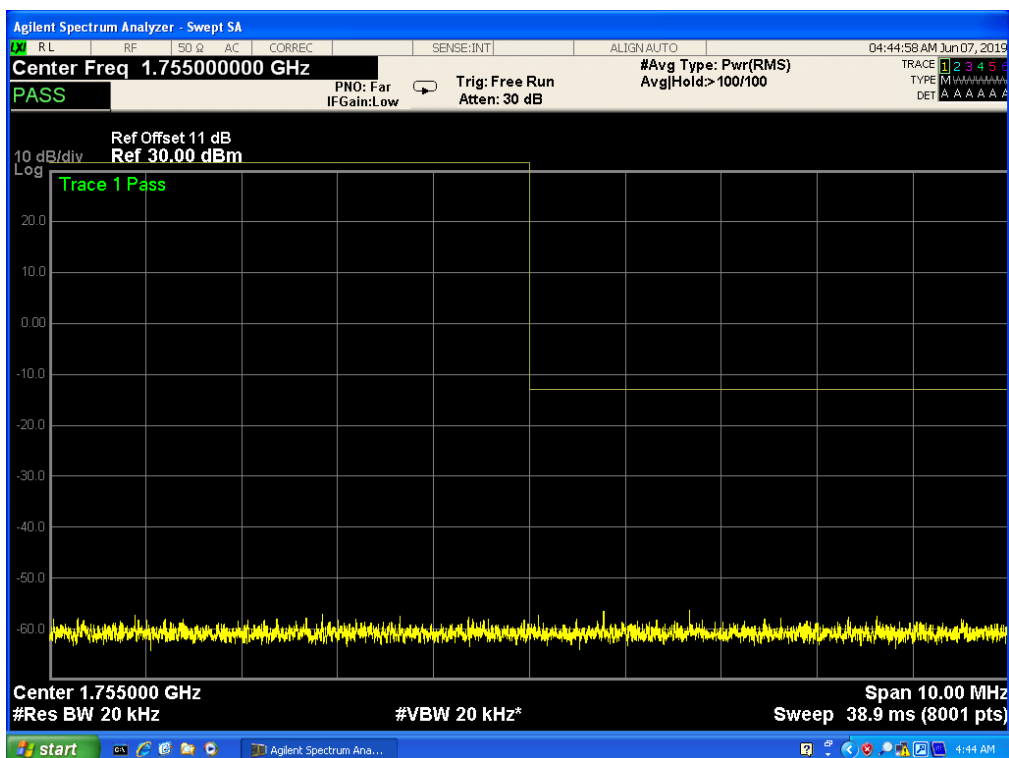
### RESULTS

## 6.1 LTE BAND 4

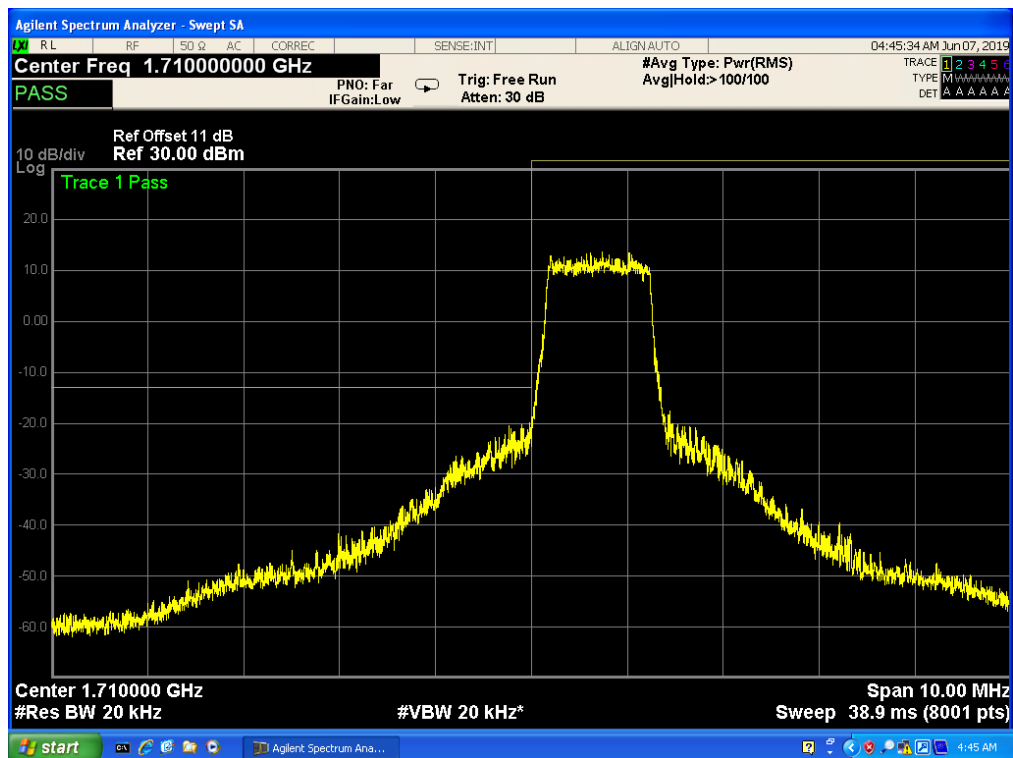
Band 4, UL Channel 19957, UL Frequency 1710.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



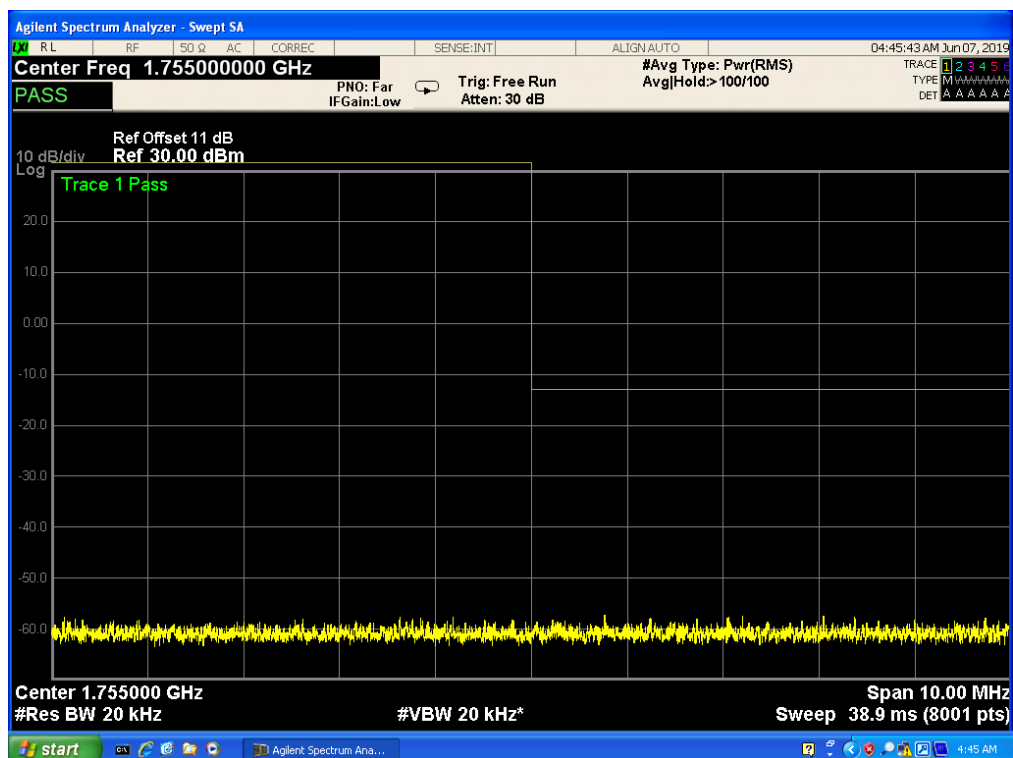
Band 4, UL Channel 19957, UL Frequency 1710.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



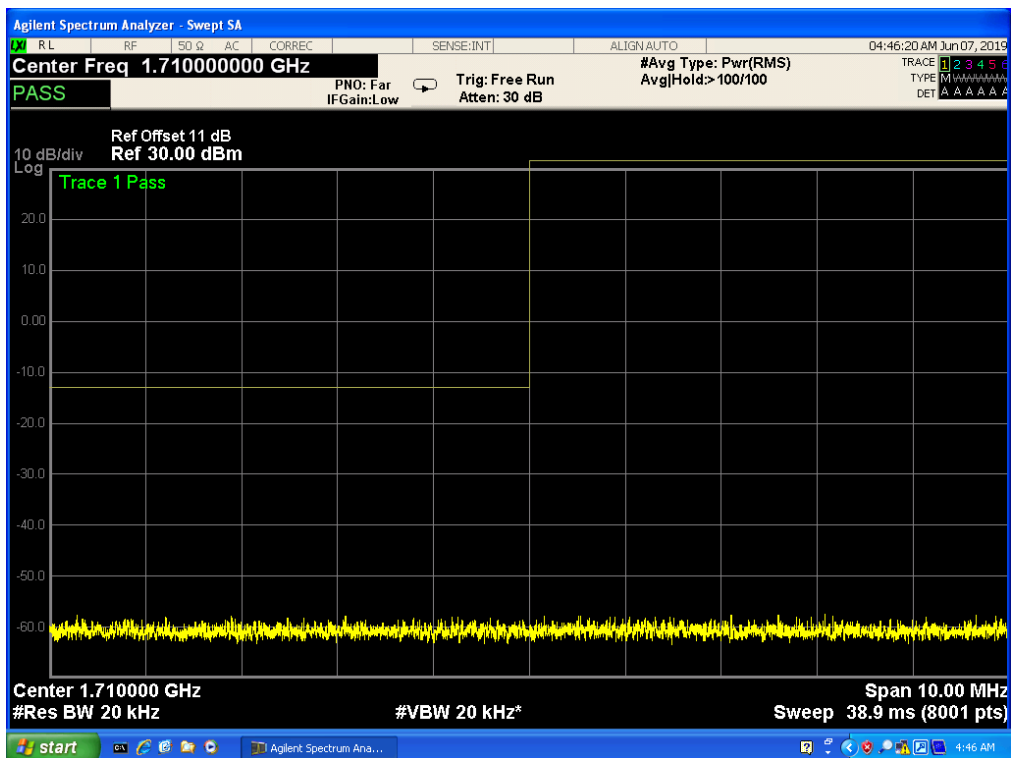
Band 4,UL Channel 19957,UL Frequency 1710.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM



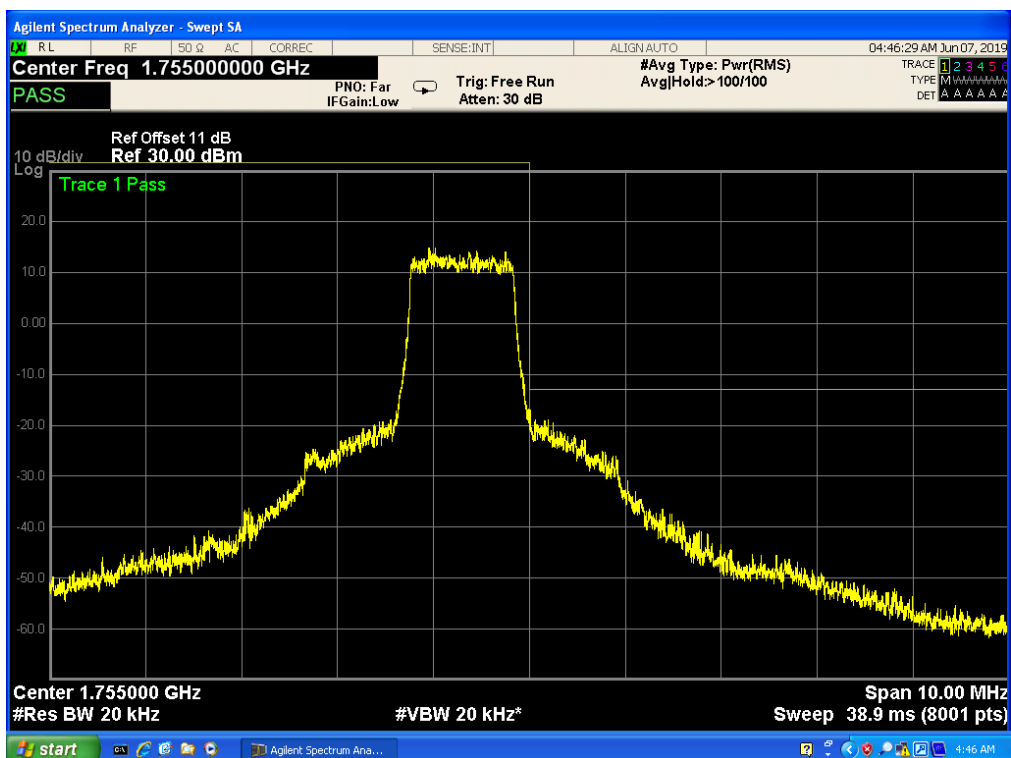
Band 4,UL Channel 19957,UL Frequency 1710.7,BW 1.4,NO. RB 6,RB POS. Low,16QAM



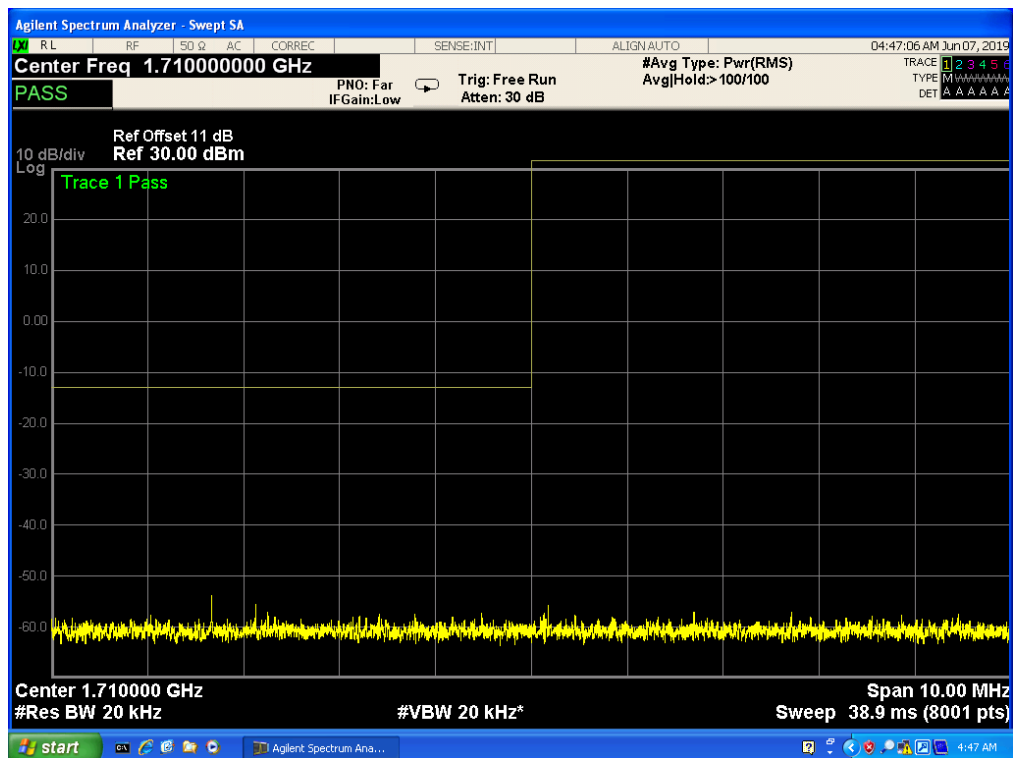
Band 4, UL Channel 20393, UL Frequency 1754.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK



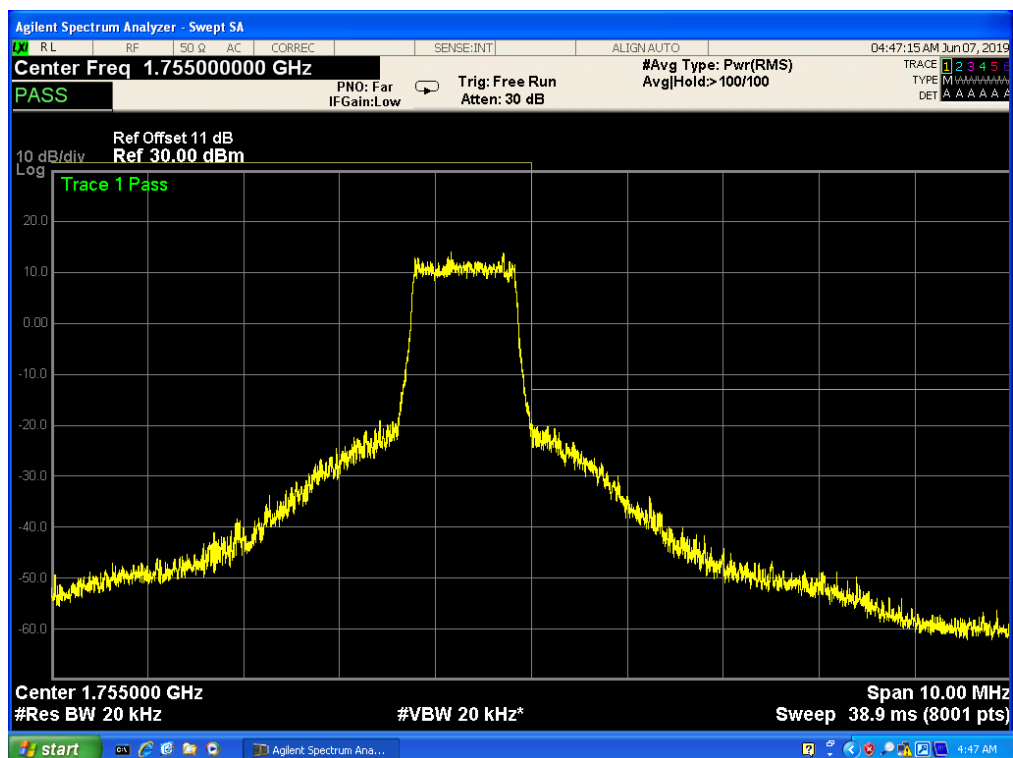
Band 4, UL Channel 20393, UL Frequency 1754.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK



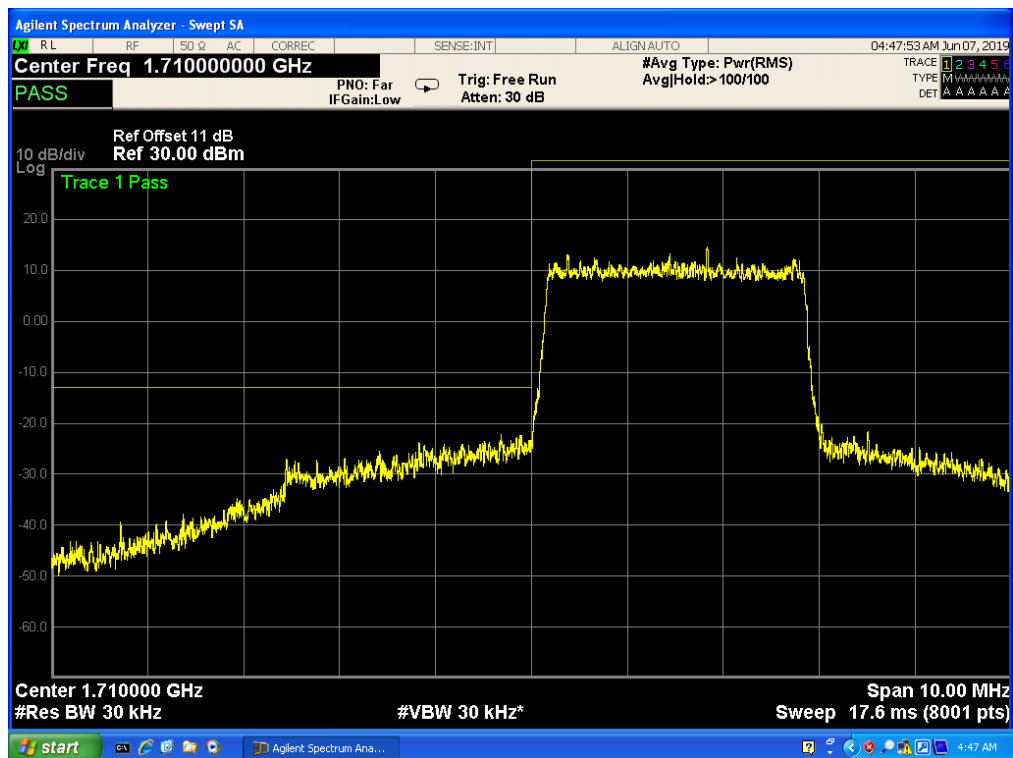
Band 4,UL Channel 20393,UL Frequency 1754.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM



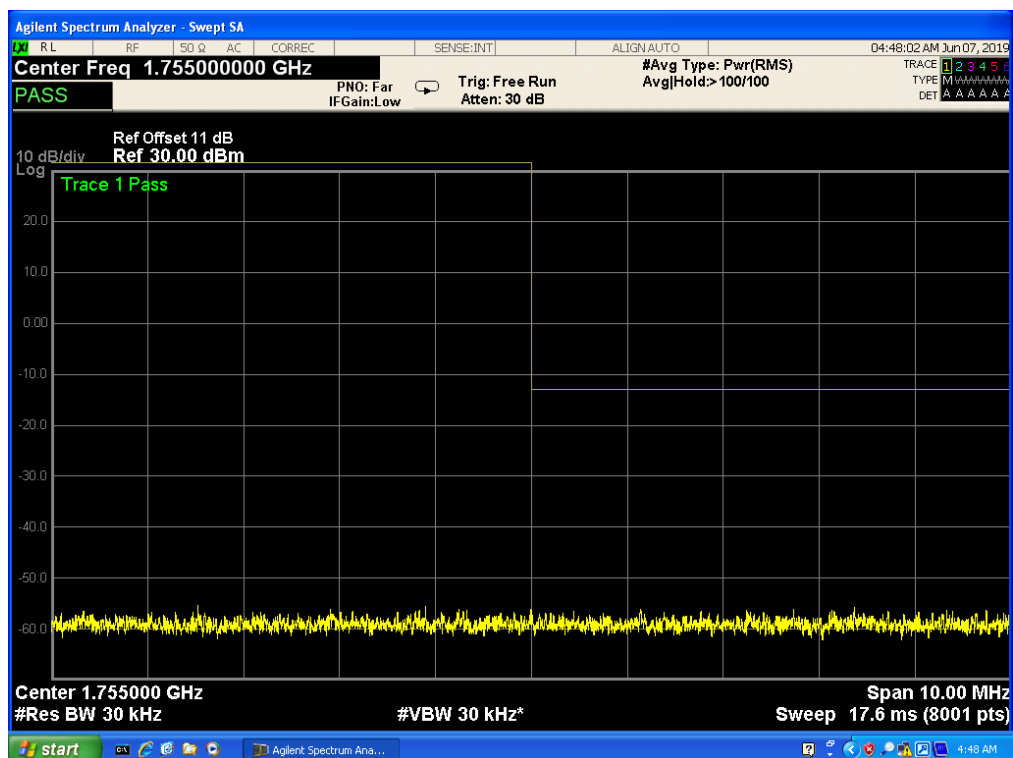
Band 4,UL Channel 20393,UL Frequency 1754.3,BW 1.4,NO. RB 6,RB POS. Low,16QAM



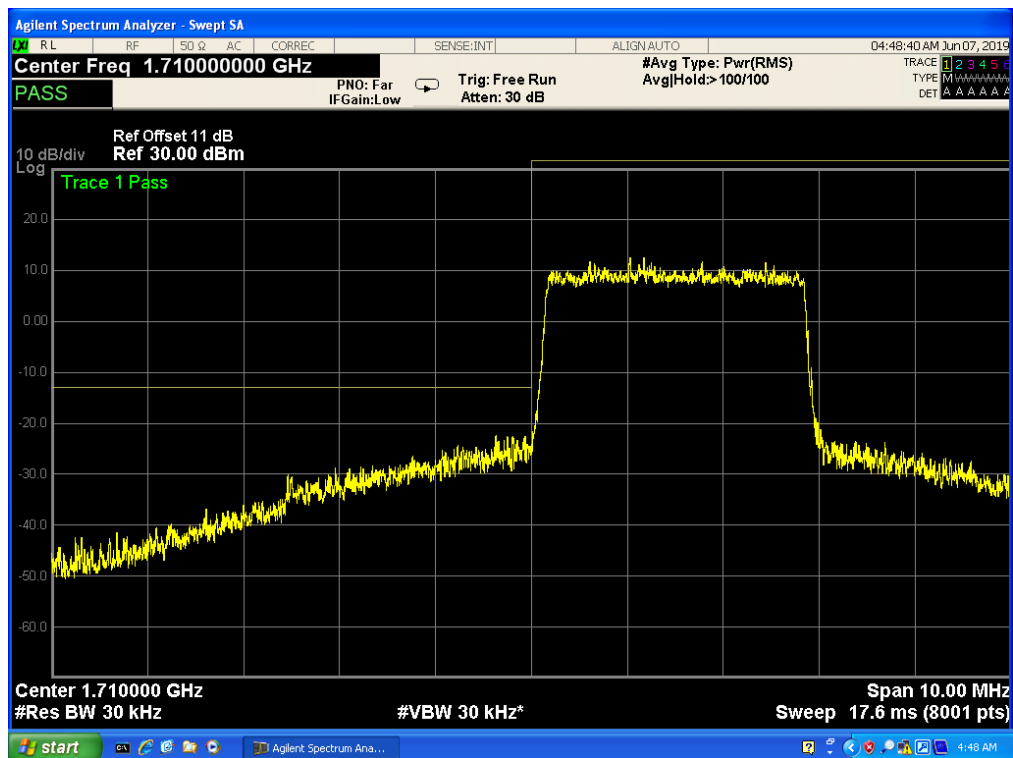
Band 4,UL Channel 19965,UL Frequency 1711.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



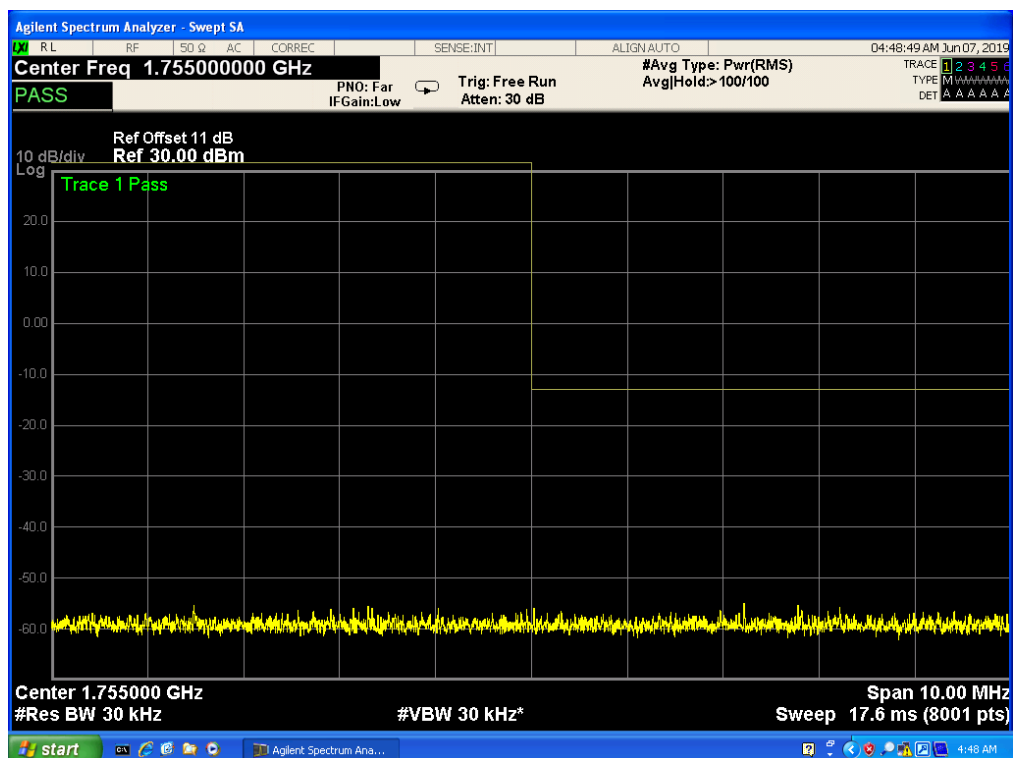
Band 4,UL Channel 19965,UL Frequency 1711.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



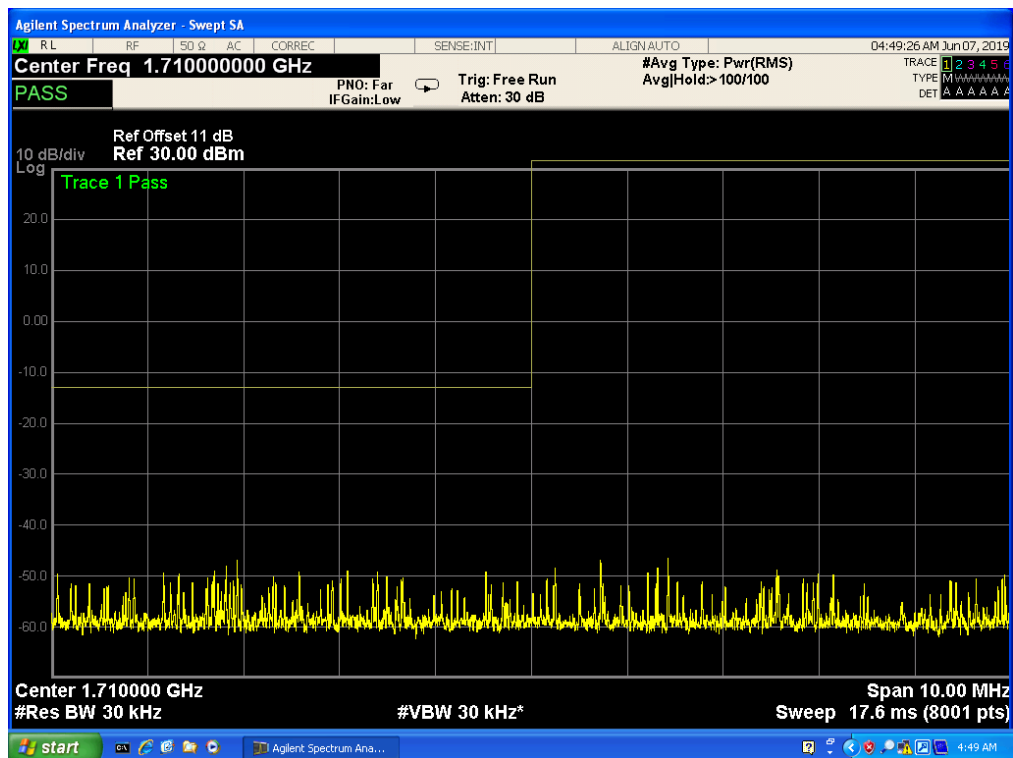
Band 4, UL Channel 19965, UL Frequency 1711.5, BW 3.0, NO. RB 15, RB POS. Low, 16QAM



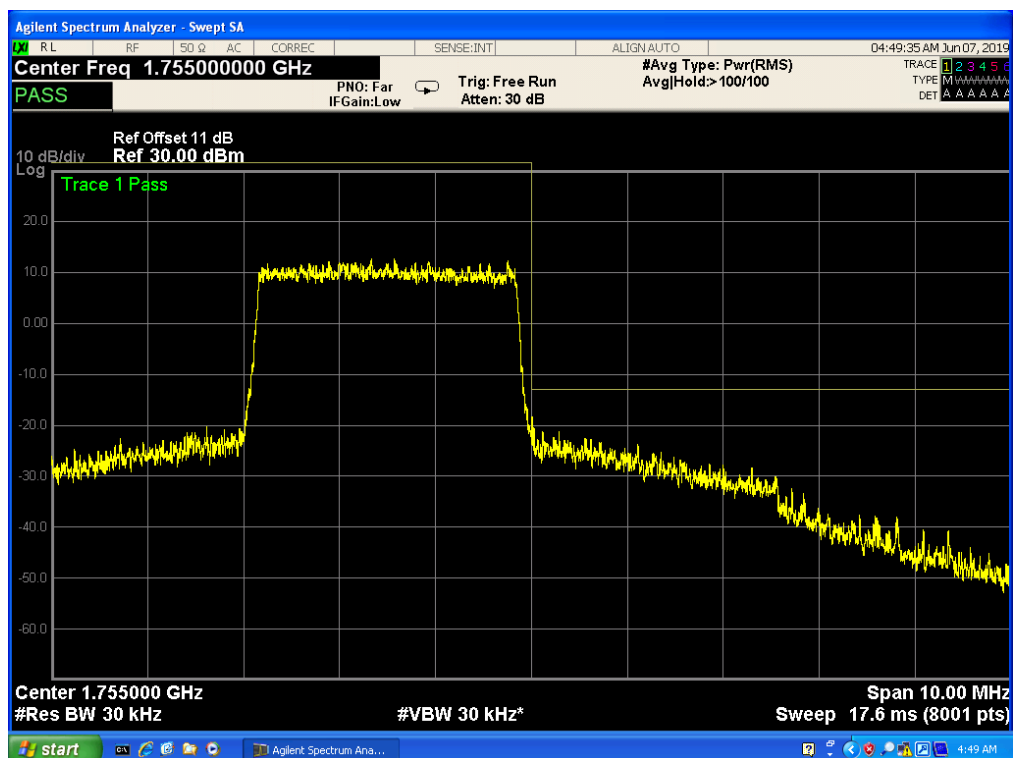
Band 4, UL Channel 19965, UL Frequency 1711.5, BW 3.0, NO. RB 15, RB POS. Low, 16QAM



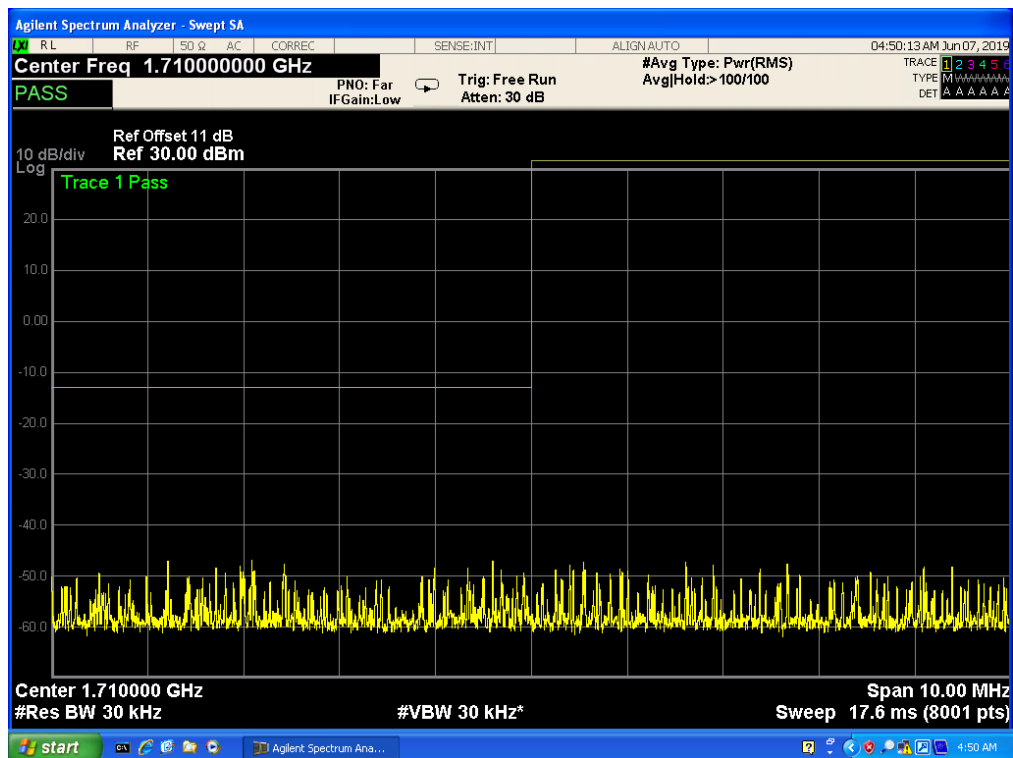
Band 4,UL Channel 20385,UL Frequency 1753.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



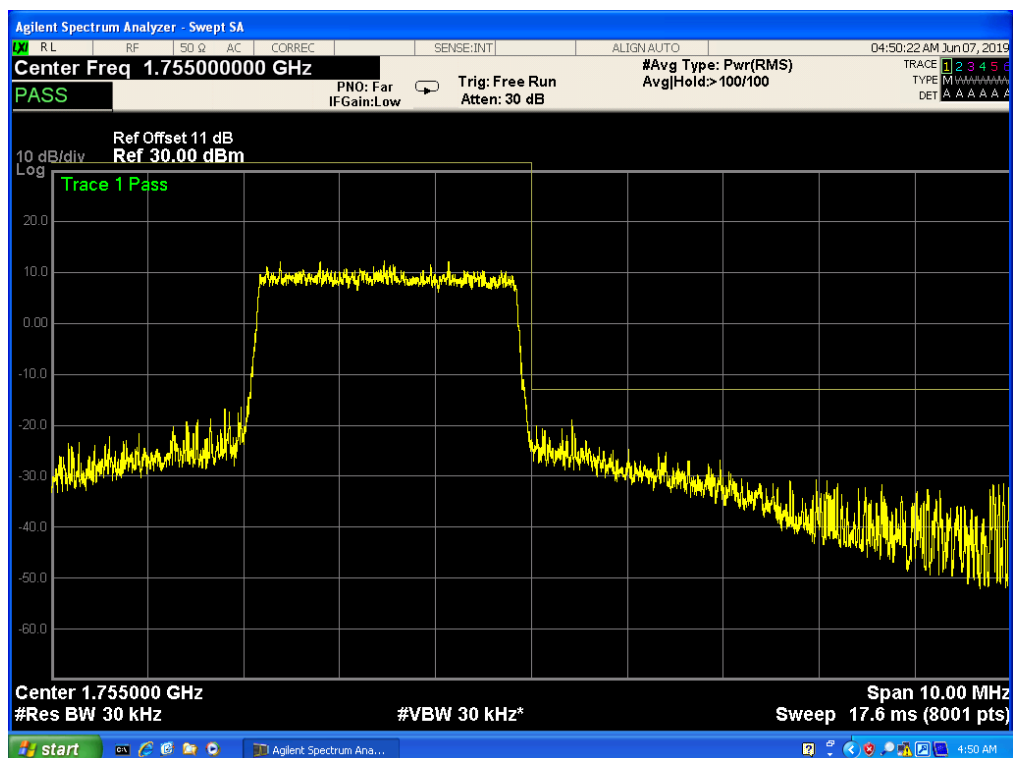
Band 4,UL Channel 20385,UL Frequency 1753.5,BW 3.0,NO. RB 15,RB POS. Low,QPSK



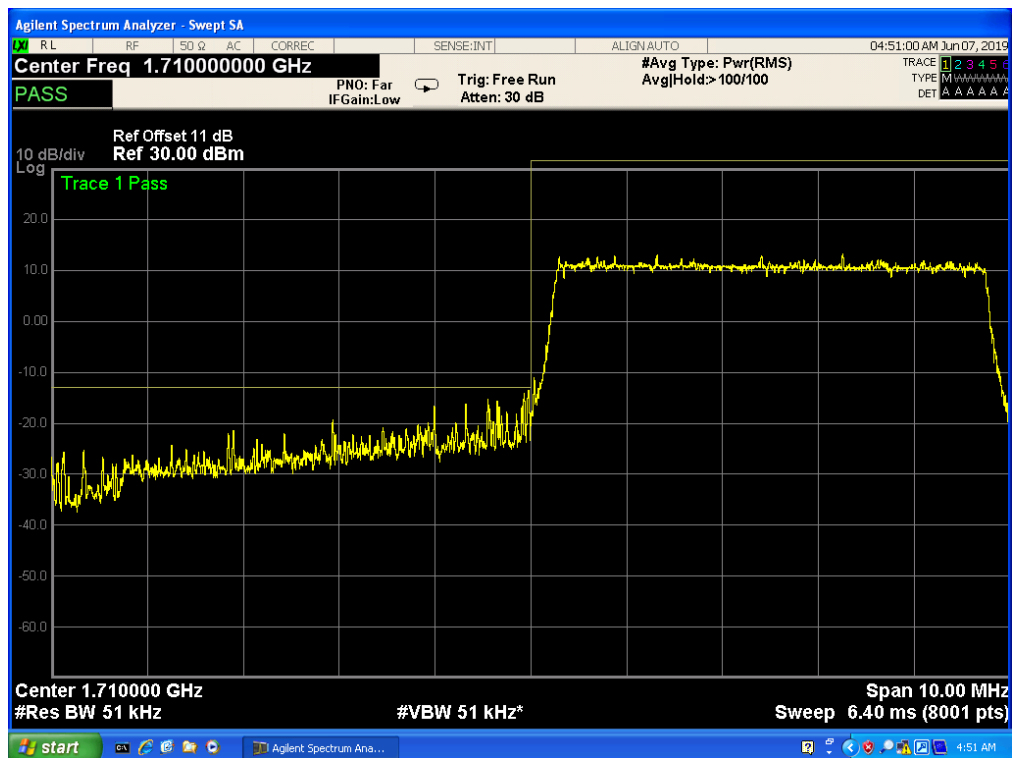
Band 4, UL Channel 20385, UL Frequency 1753.5, BW 3.0, NO. RB 15, RB POS. Low, 16QAM



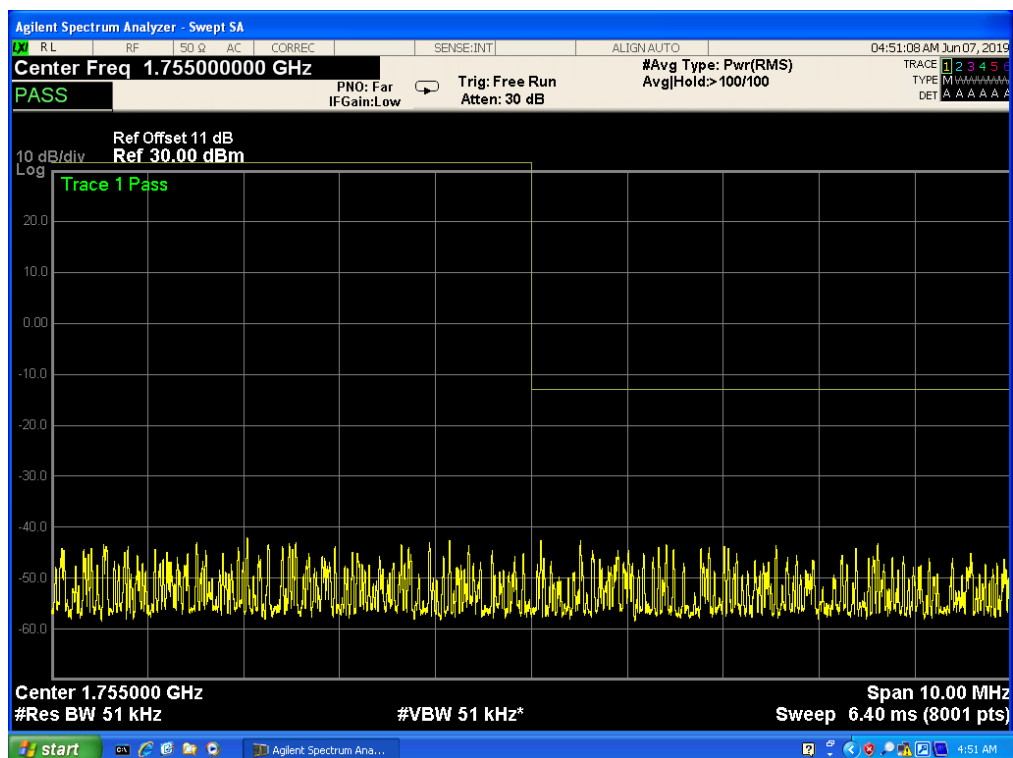
Band 4, UL Channel 20385, UL Frequency 1753.5, BW 3.0, NO. RB 15, RB POS. Low, 16QAM



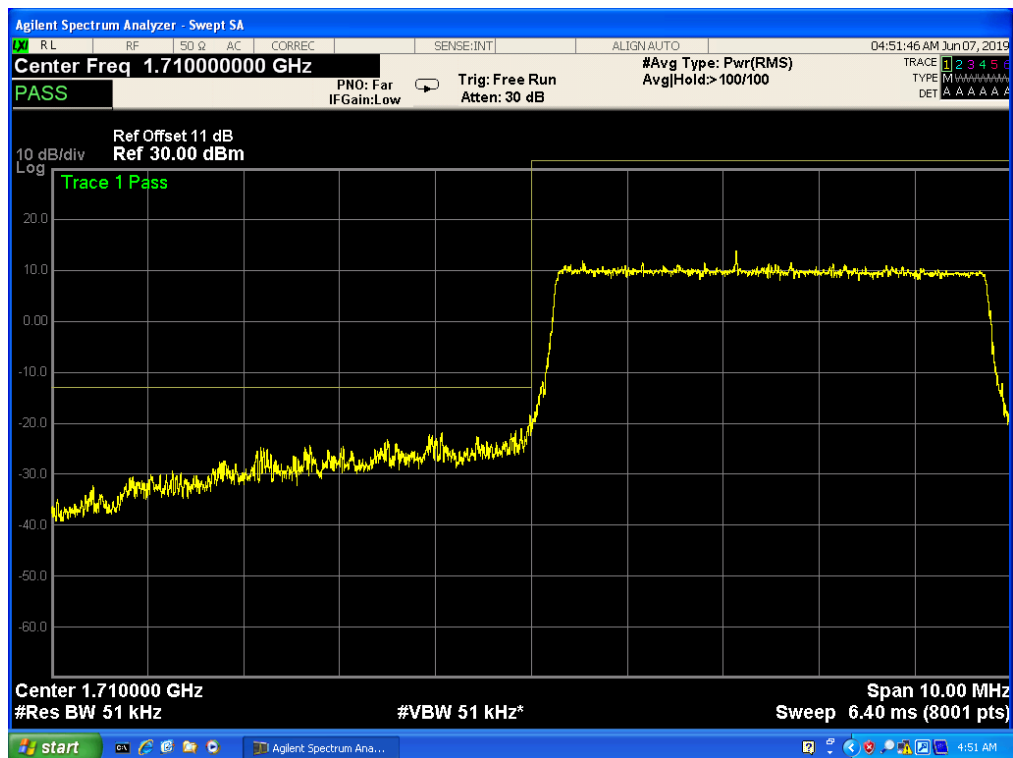
Band 4,UL Channel 19975,UL Frequency 1712.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



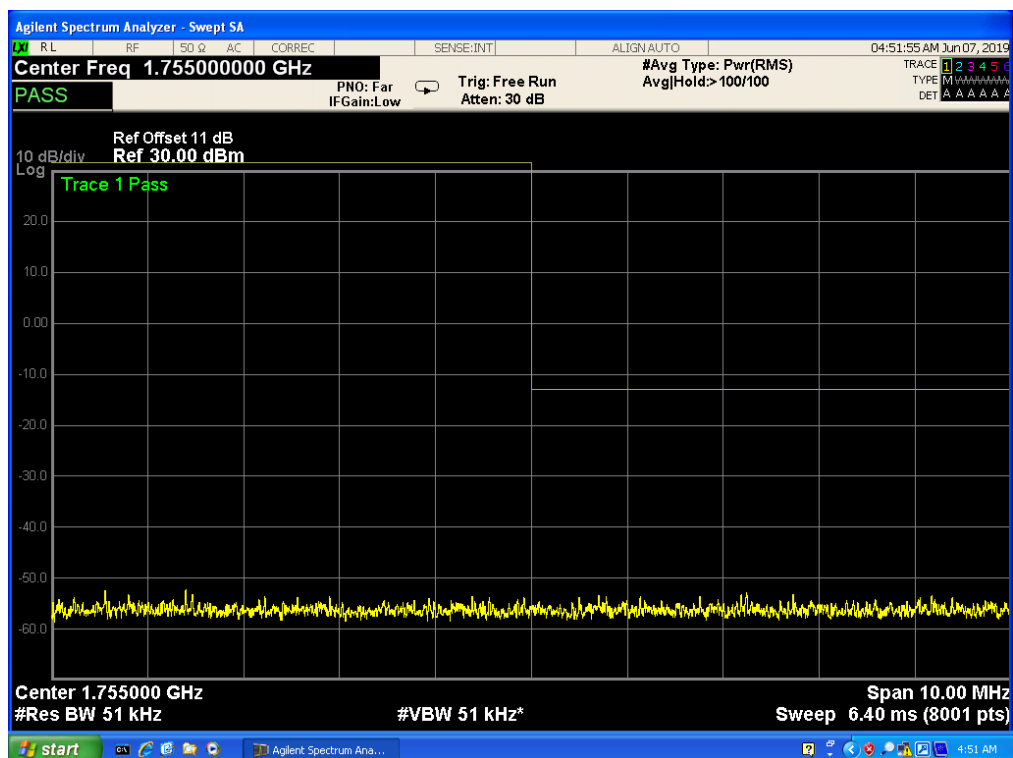
Band 4,UL Channel 19975,UL Frequency 1712.5,BW 5.0,NO. RB 25,RB POS. Low,QPSK



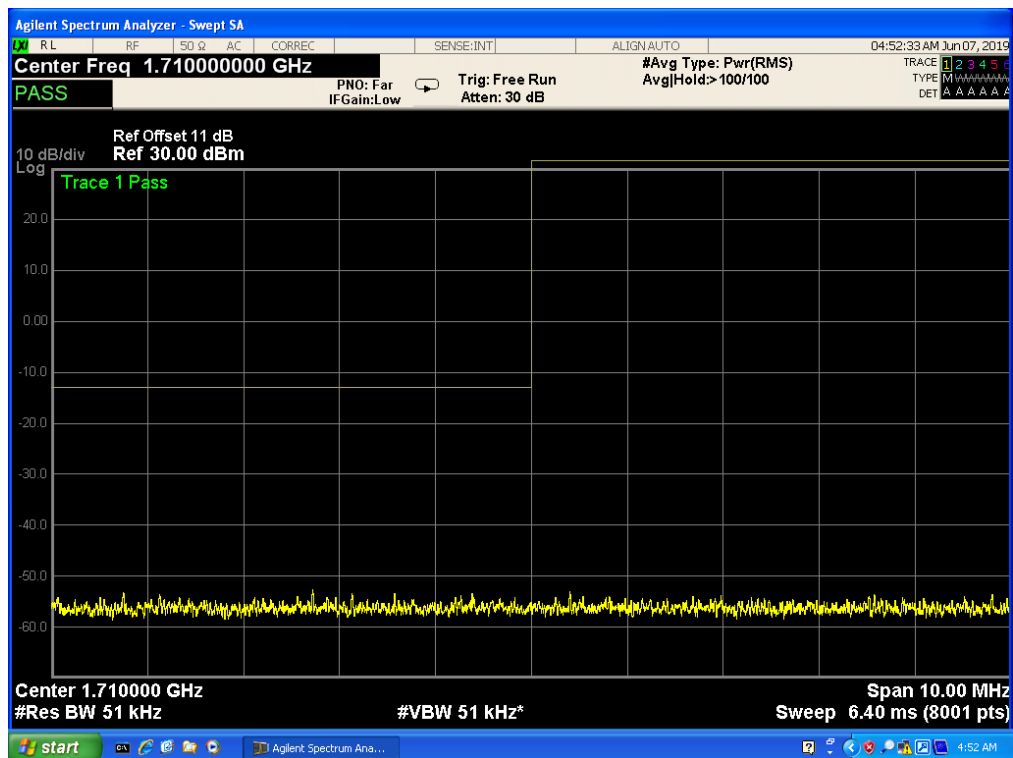
Band 4, UL Channel 19975, UL Frequency 1712.5, BW 5.0, NO. RB 25, RB POS. Low, 16QAM



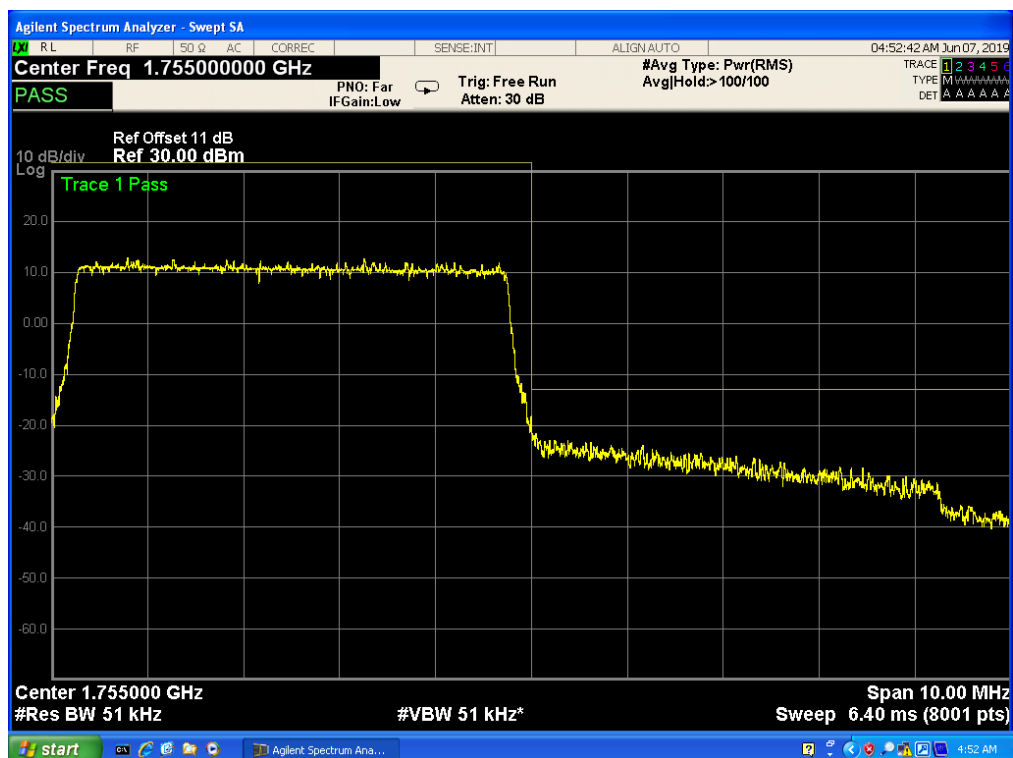
Band 4, UL Channel 19975, UL Frequency 1712.5, BW 5.0, NO. RB 25, RB POS. Low, 16QAM



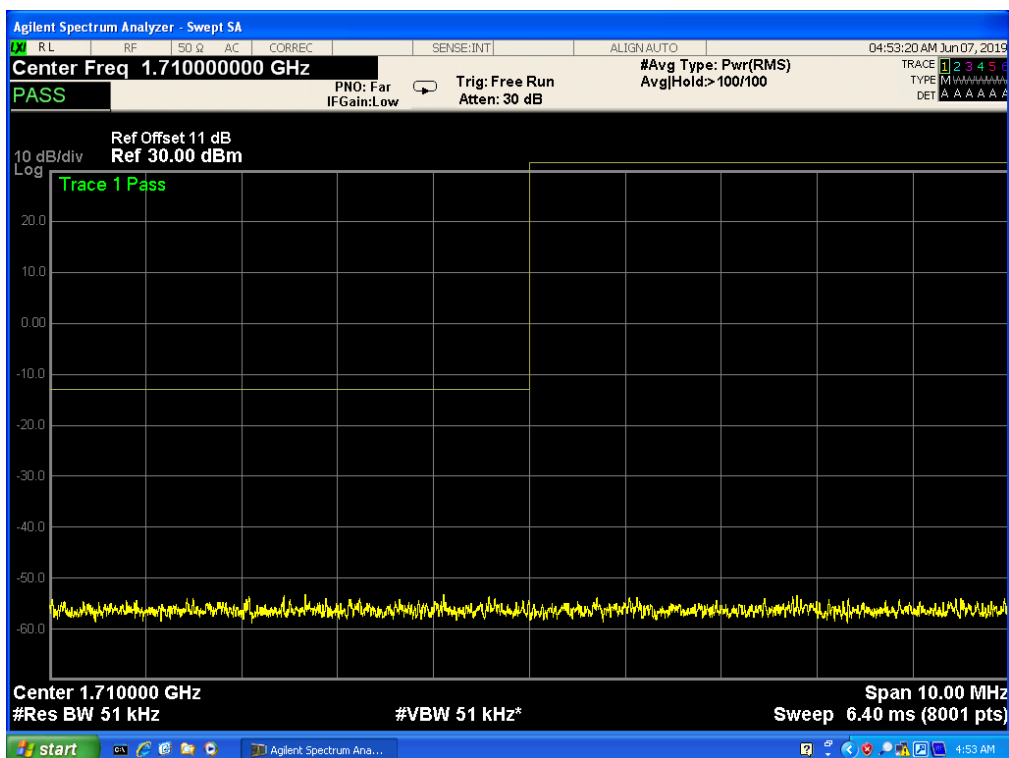
Band 4, UL Channel 20375, UL Frequency 1752.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



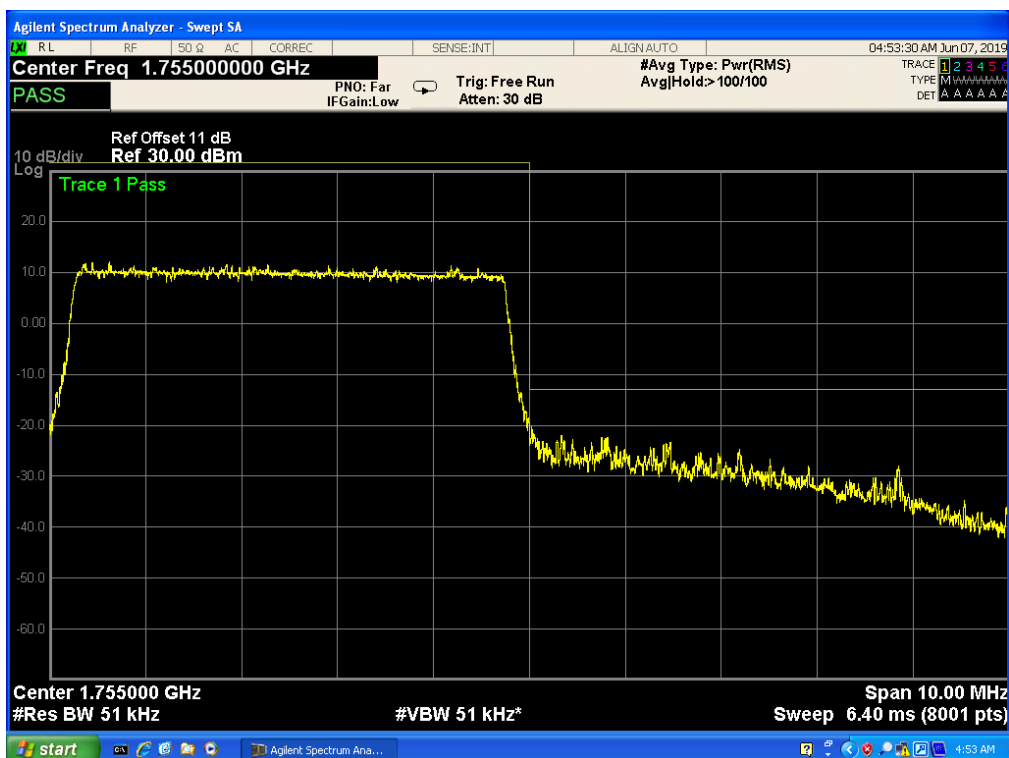
Band 4, UL Channel 20375, UL Frequency 1752.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



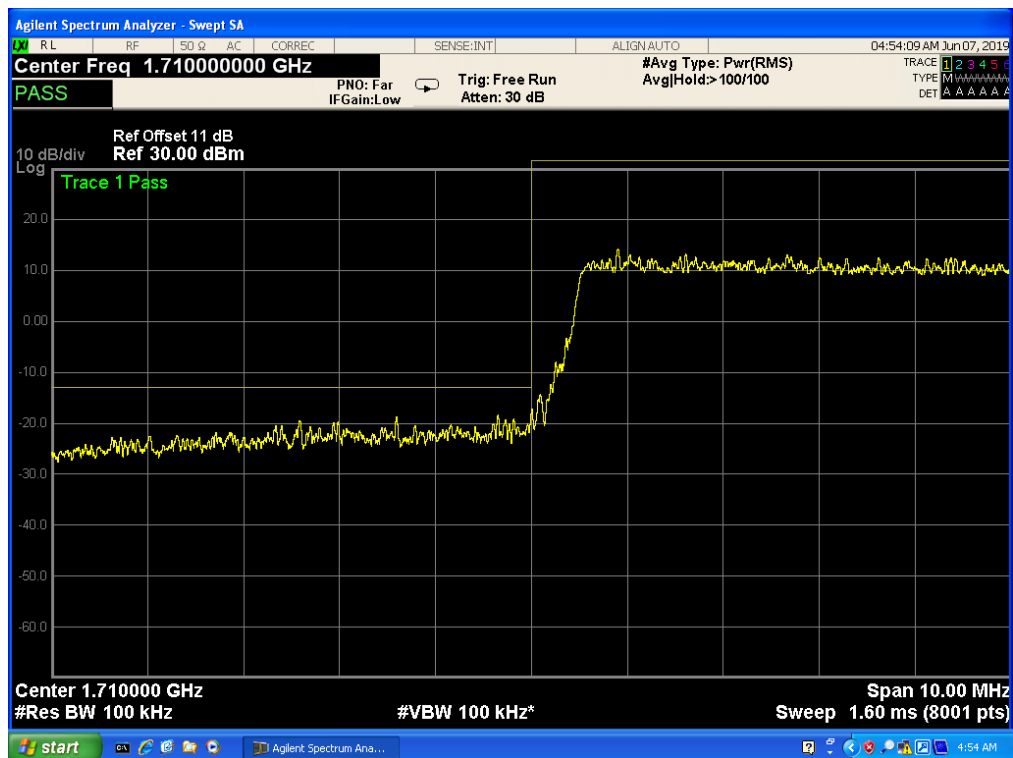
Band 4,UL Channel 20375,UL Frequency 1752.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



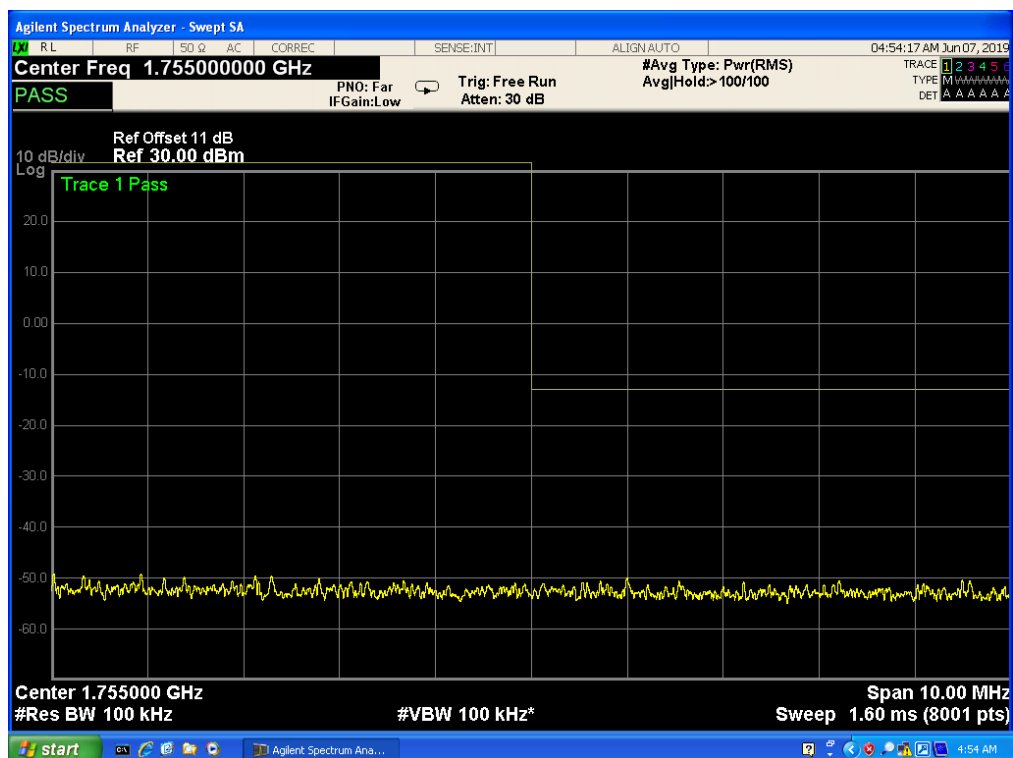
Band 4,UL Channel 20375,UL Frequency 1752.5,BW 5.0,NO. RB 25,RB POS. Low,16QAM



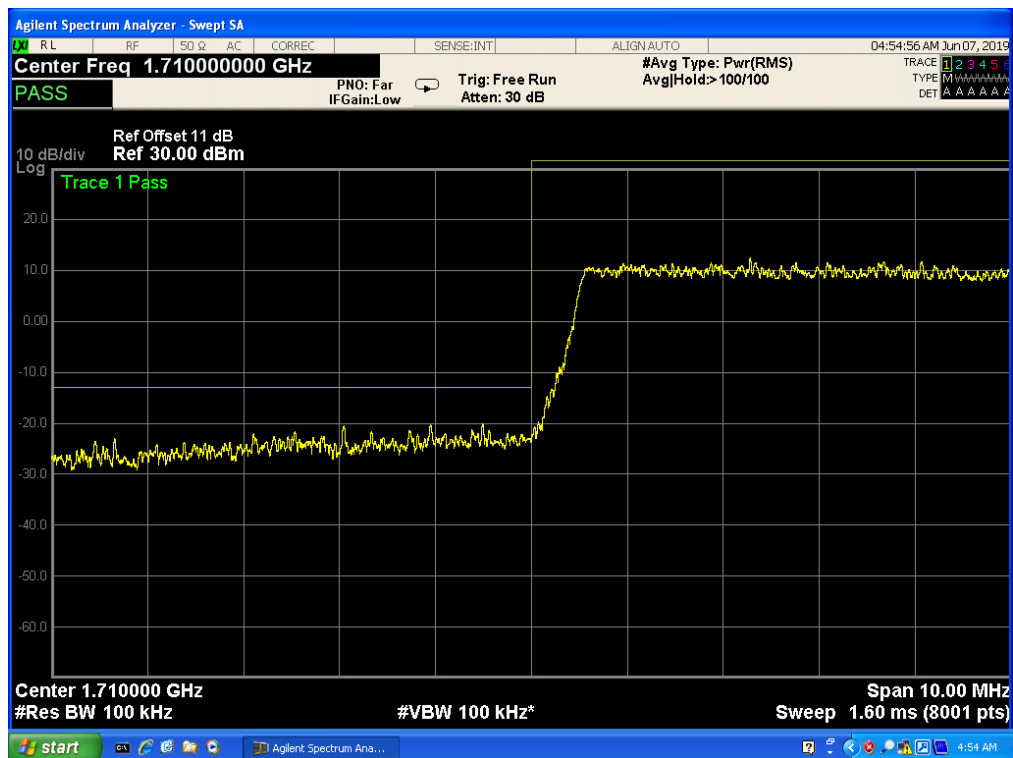
Band 4, UL Channel 20000, UL Frequency 1715.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



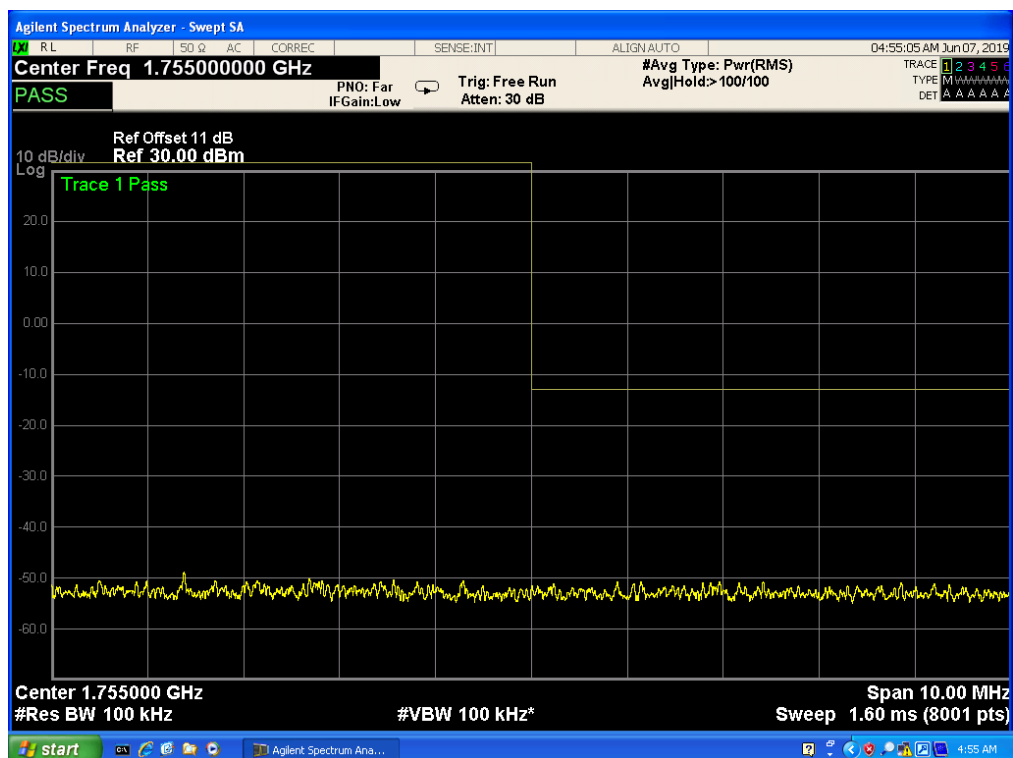
Band 4, UL Channel 20000, UL Frequency 1715.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



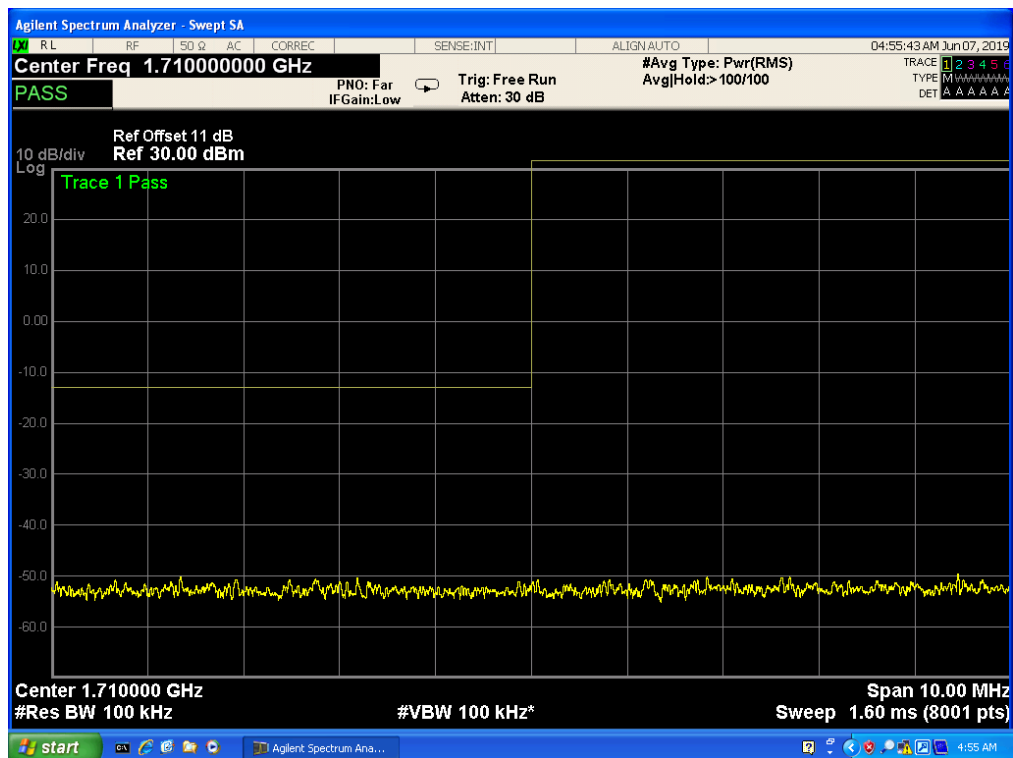
Band 4, UL Channel 20000, UL Frequency 1715.0, BW 10.0, NO. RB 50, RB POS. Low, 16QAM



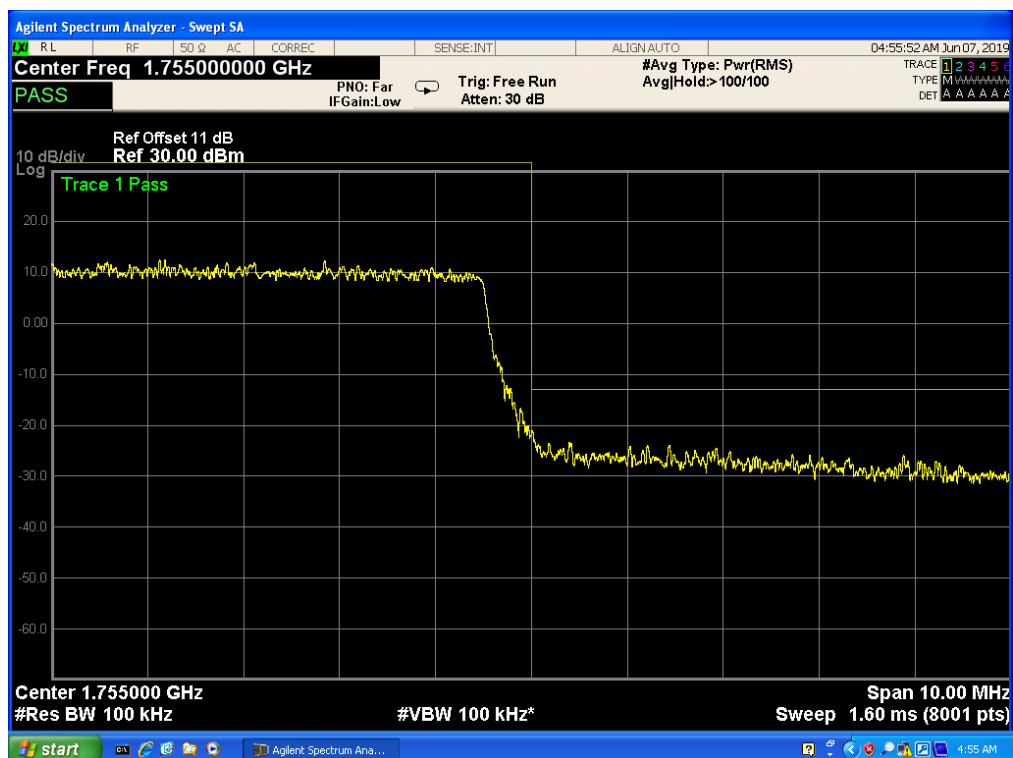
Band 4, UL Channel 20000, UL Frequency 1715.0, BW 10.0, NO. RB 50, RB POS. Low, 16QAM



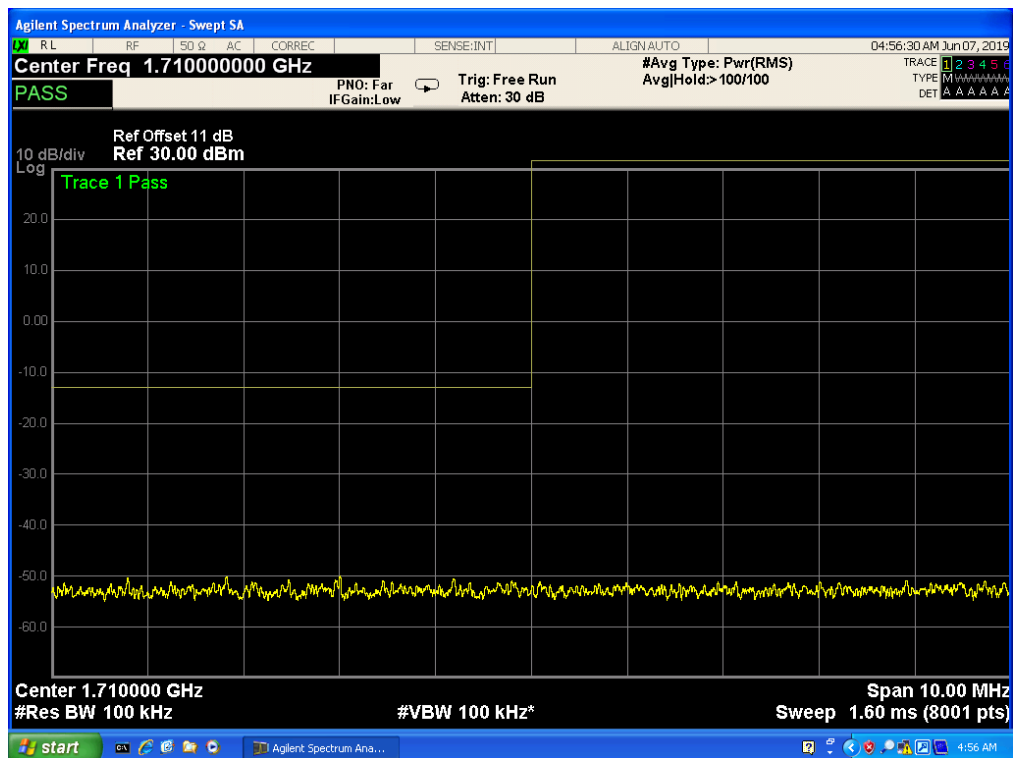
Band 4, UL Channel 20350, UL Frequency 1750.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



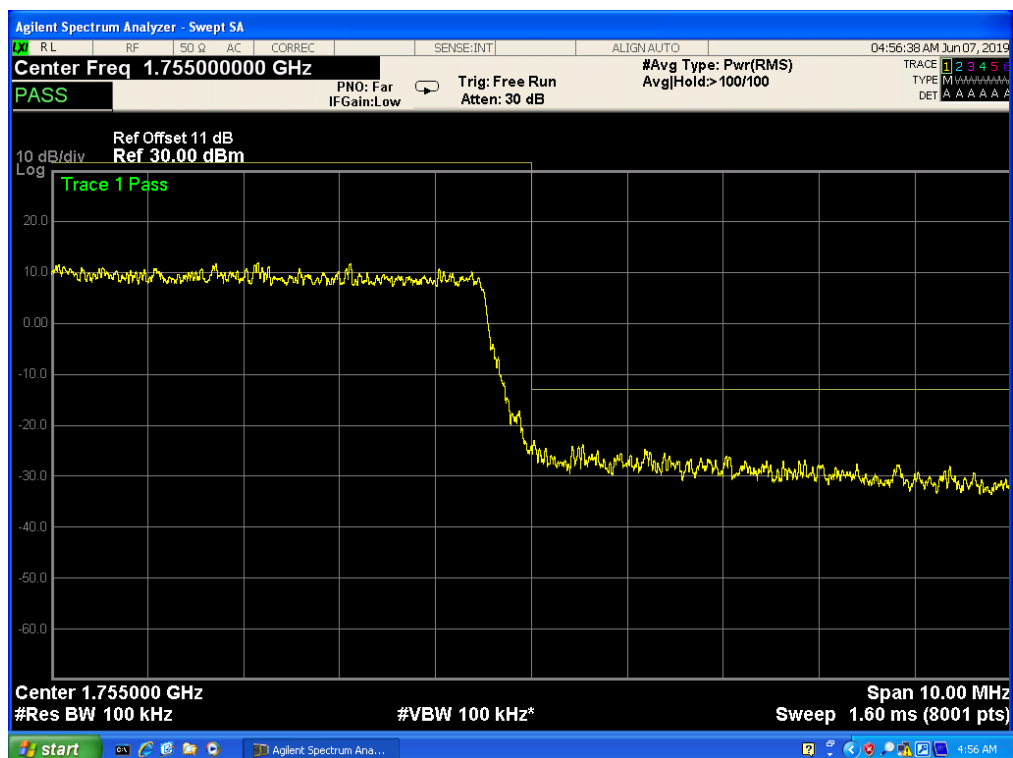
Band 4, UL Channel 20350, UL Frequency 1750.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



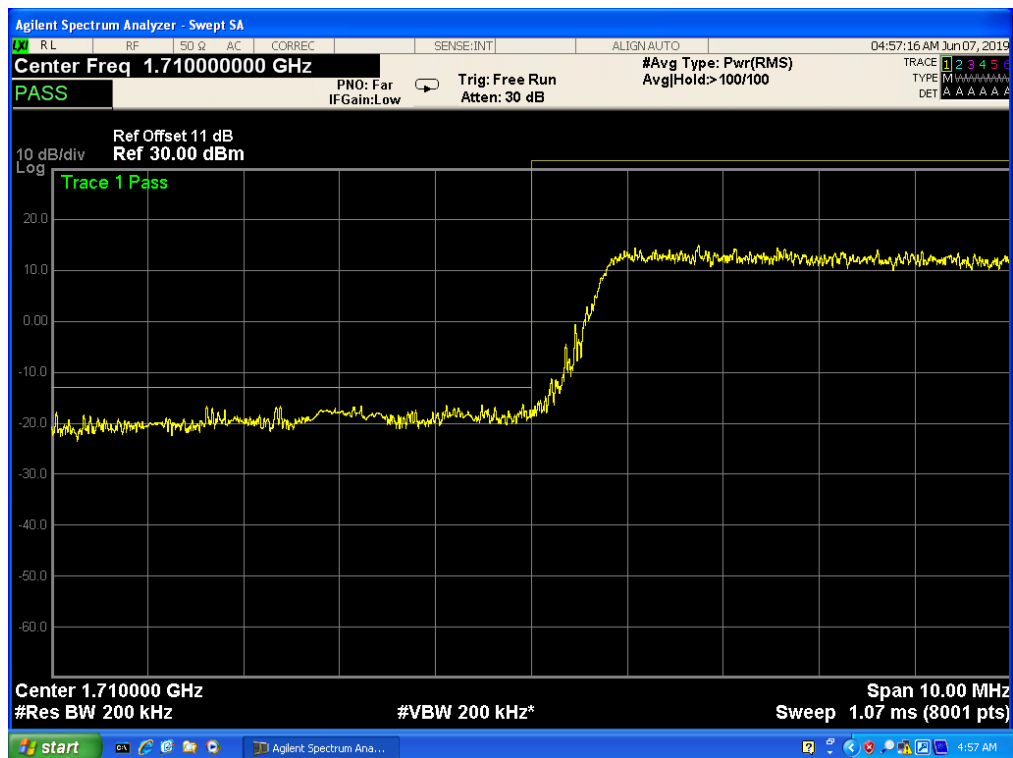
Band 4, UL Channel 20350, UL Frequency 1750.0, BW 10.0, NO. RB 50, RB POS. Low, 16QAM



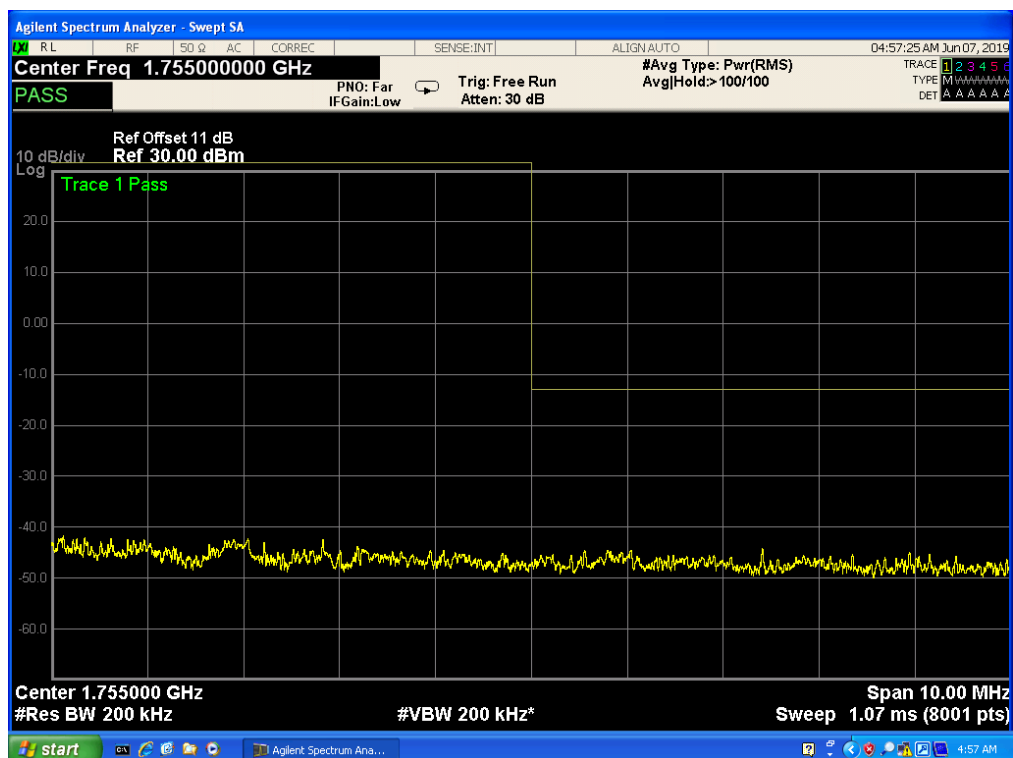
Band 4, UL Channel 20350, UL Frequency 1750.0, BW 10.0, NO. RB 50, RB POS. Low, 16QAM



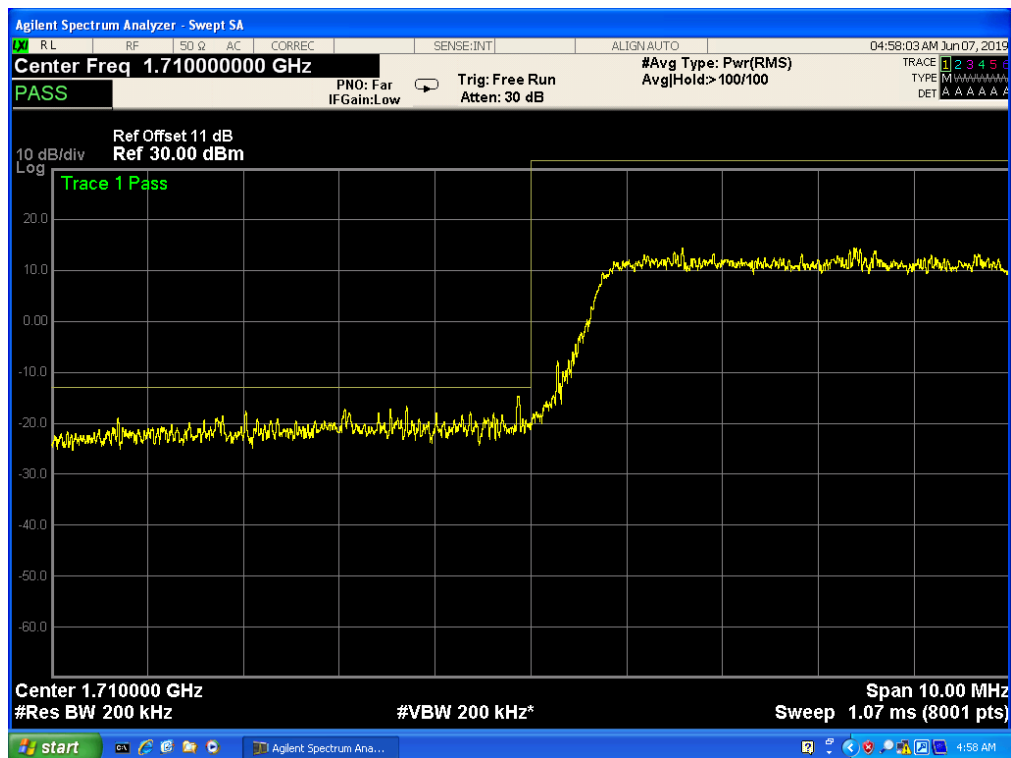
Band 4, UL Channel 20025, UL Frequency 1717.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



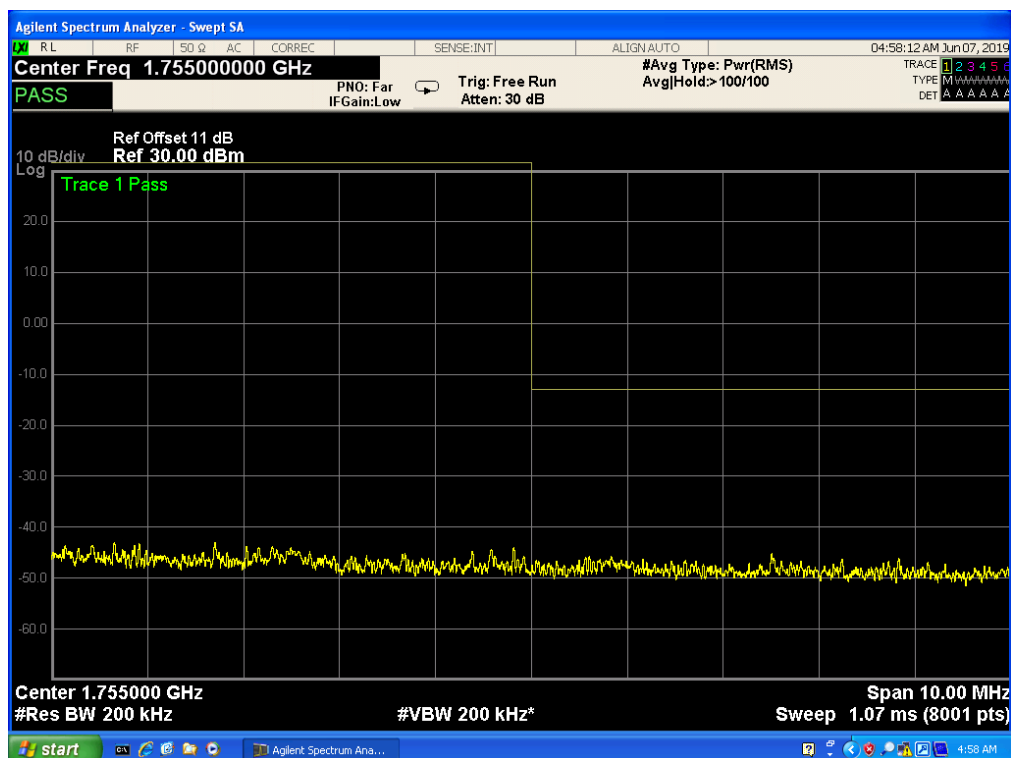
Band 4, UL Channel 20025, UL Frequency 1717.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



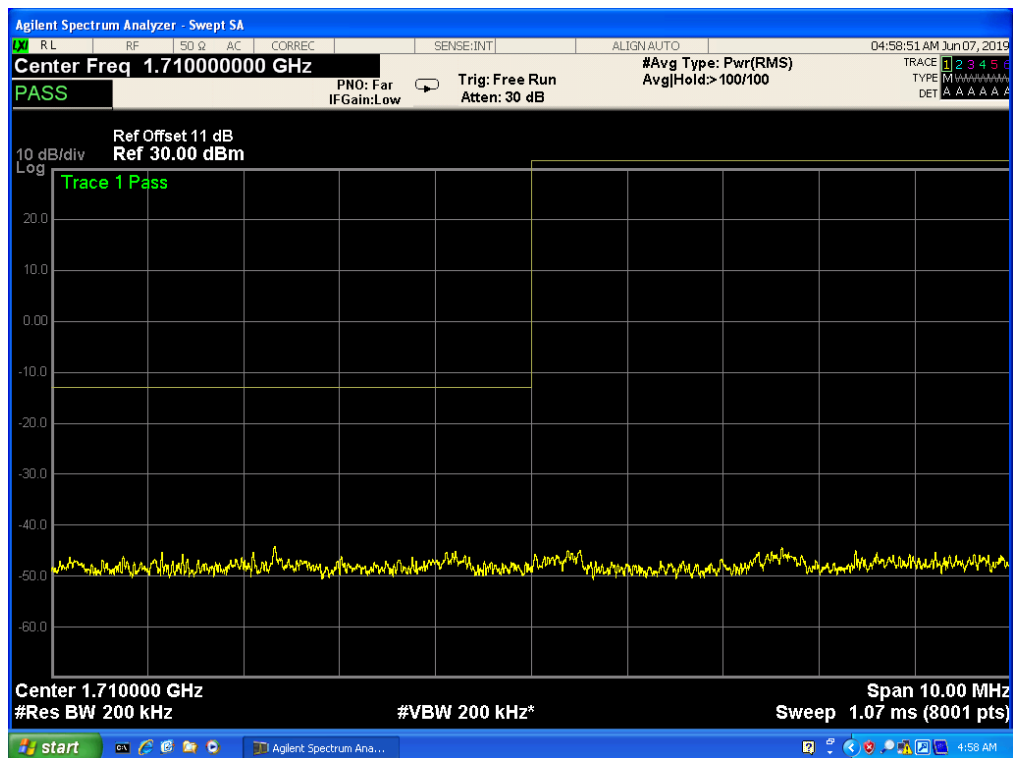
Band 4, UL Channel 20025, UL Frequency 1717.5, BW 15.0, NO. RB 75, RB POS. Low, 16QAM



Band 4, UL Channel 20025, UL Frequency 1717.5, BW 15.0, NO. RB 75, RB POS. Low, 16QAM



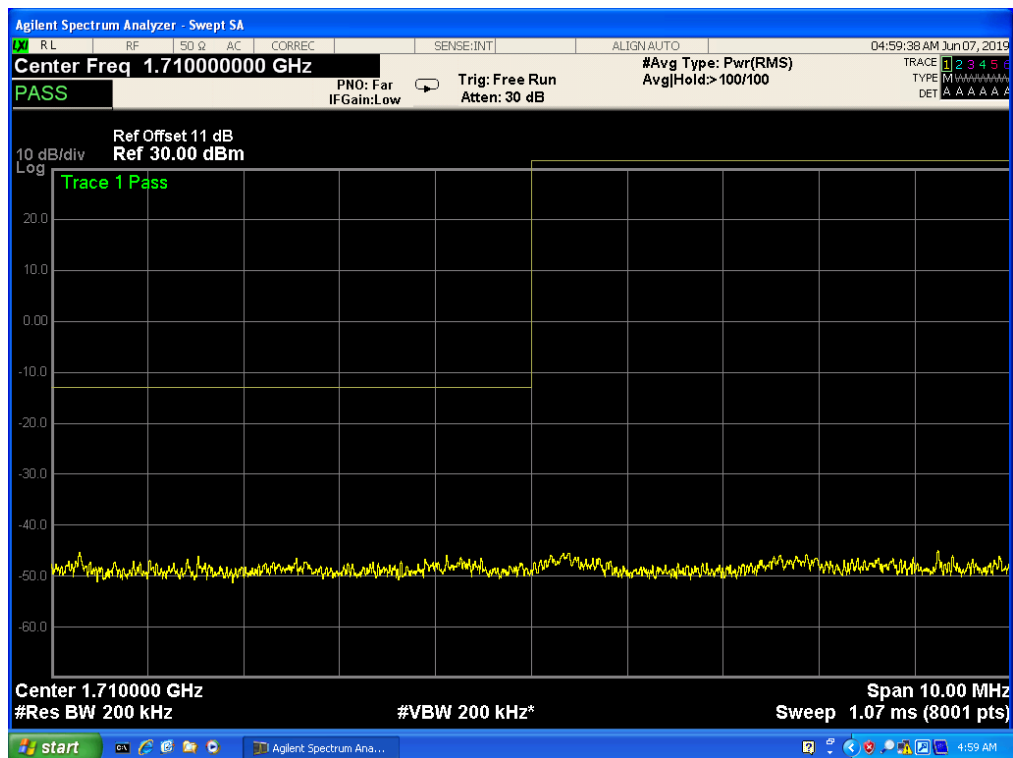
Band 4, UL Channel 20325, UL Frequency 1747.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



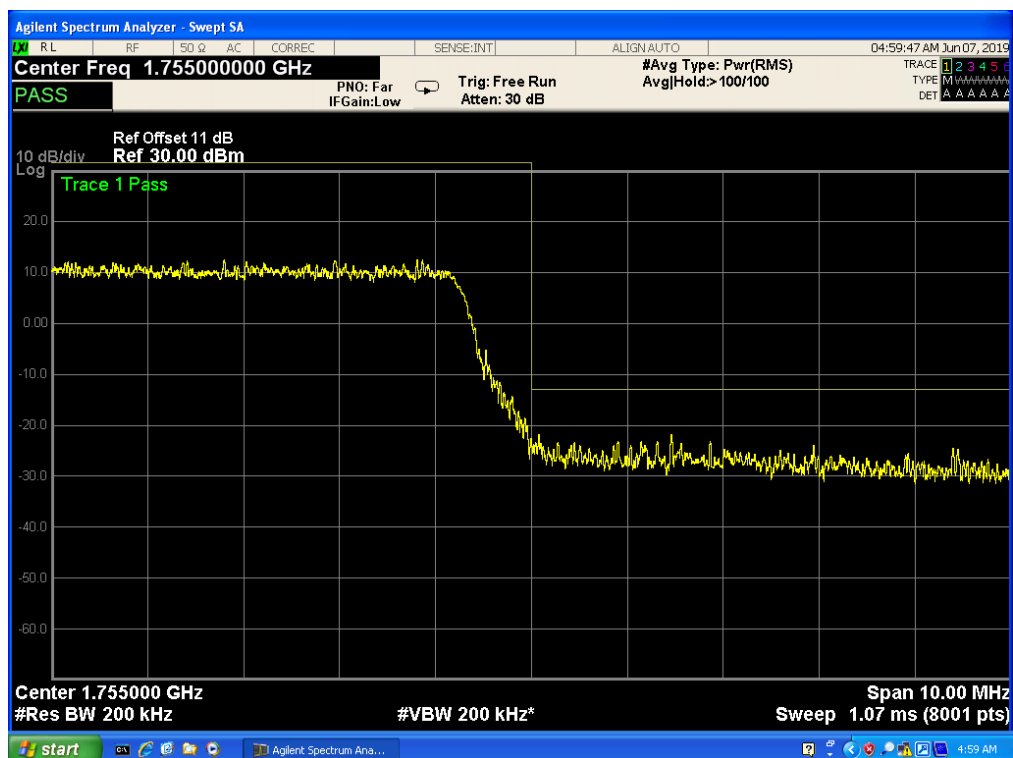
Band 4, UL Channel 20325, UL Frequency 1747.5, BW 15.0, NO. RB 75, RB POS. Low, QPSK



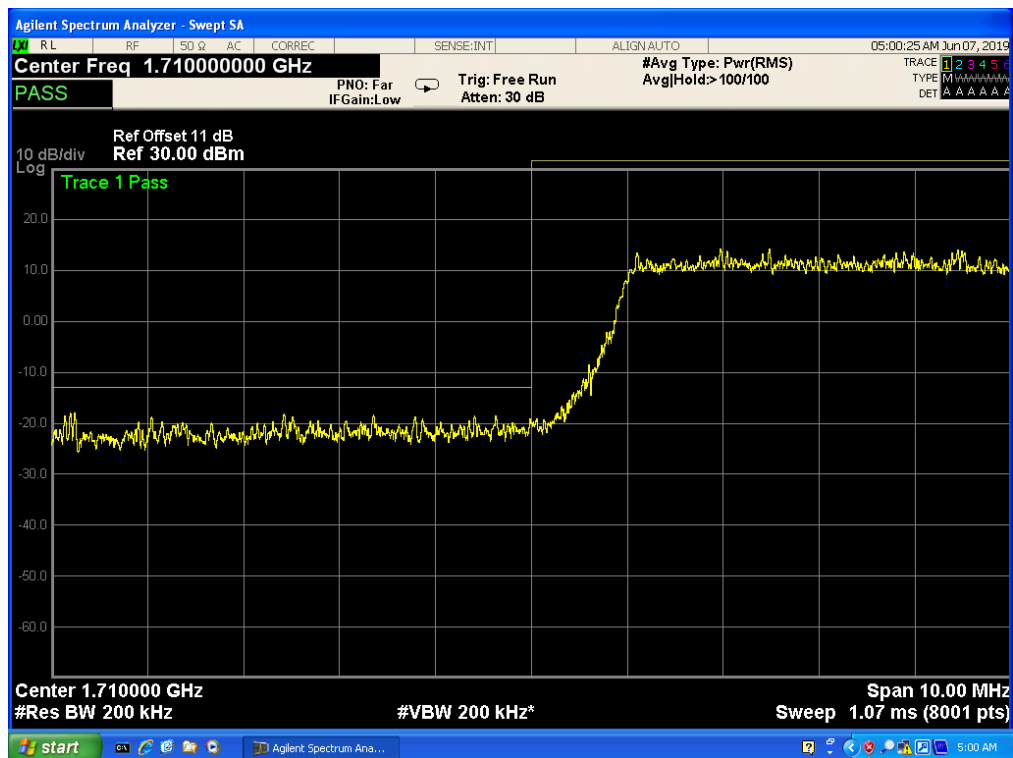
Band 4, UL Channel 20325, UL Frequency 1747.5, BW 15.0, NO. RB 75, RB POS. Low, 16QAM



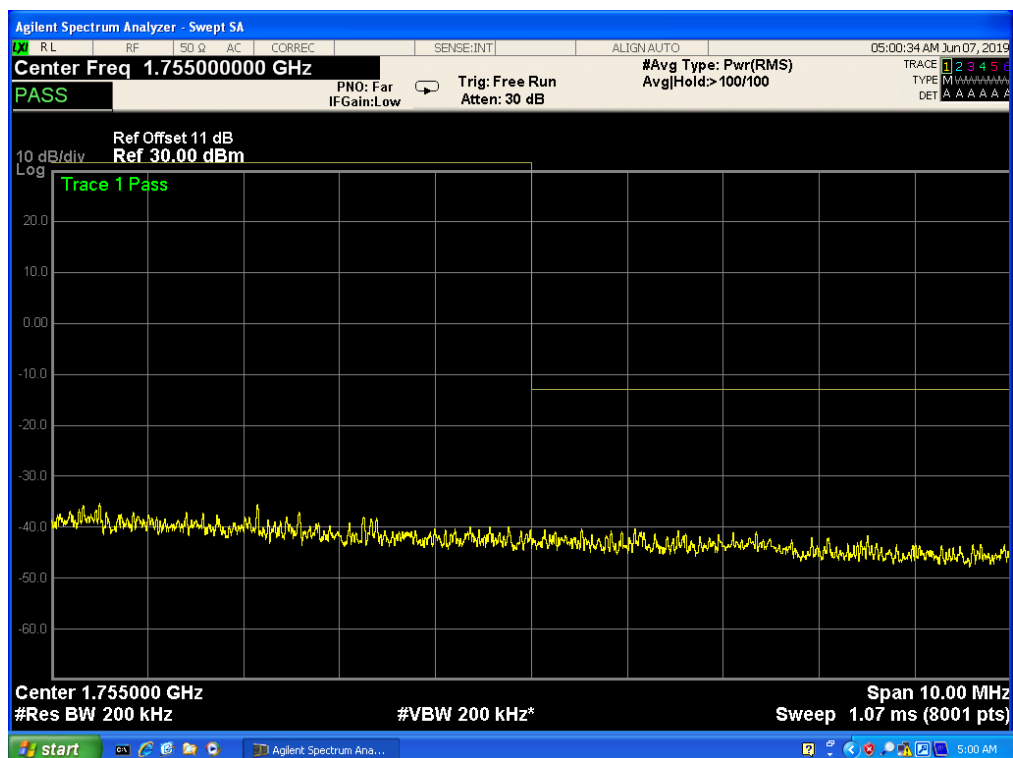
Band 4, UL Channel 20325, UL Frequency 1747.5, BW 15.0, NO. RB 75, RB POS. Low, 16QAM



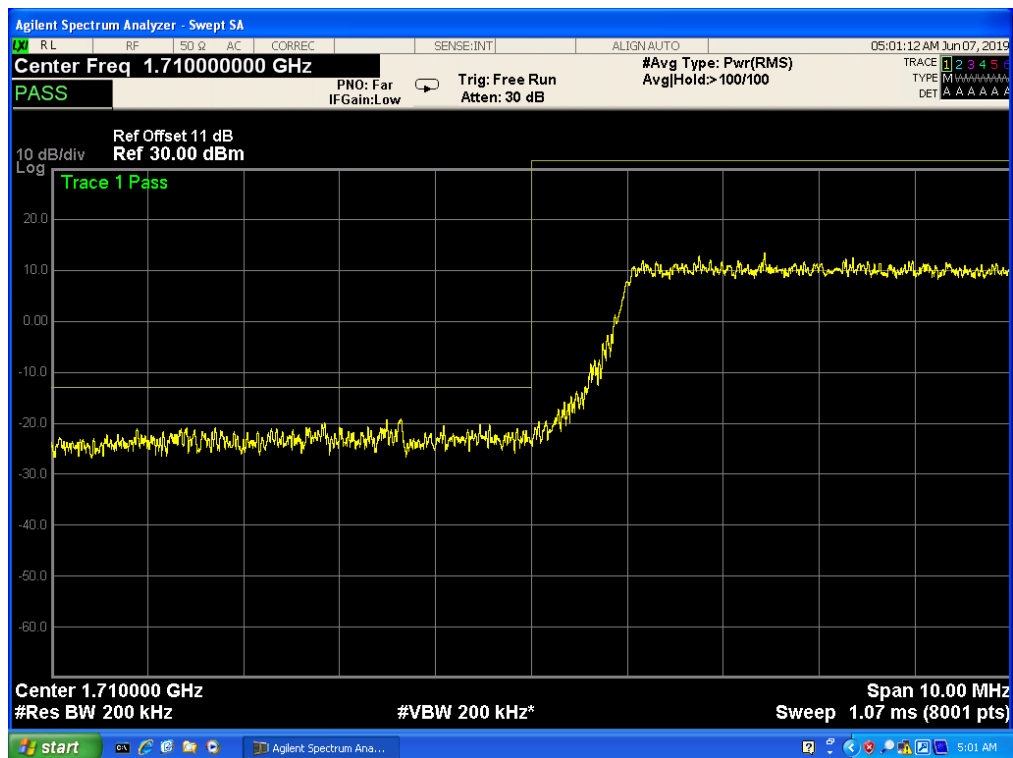
Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



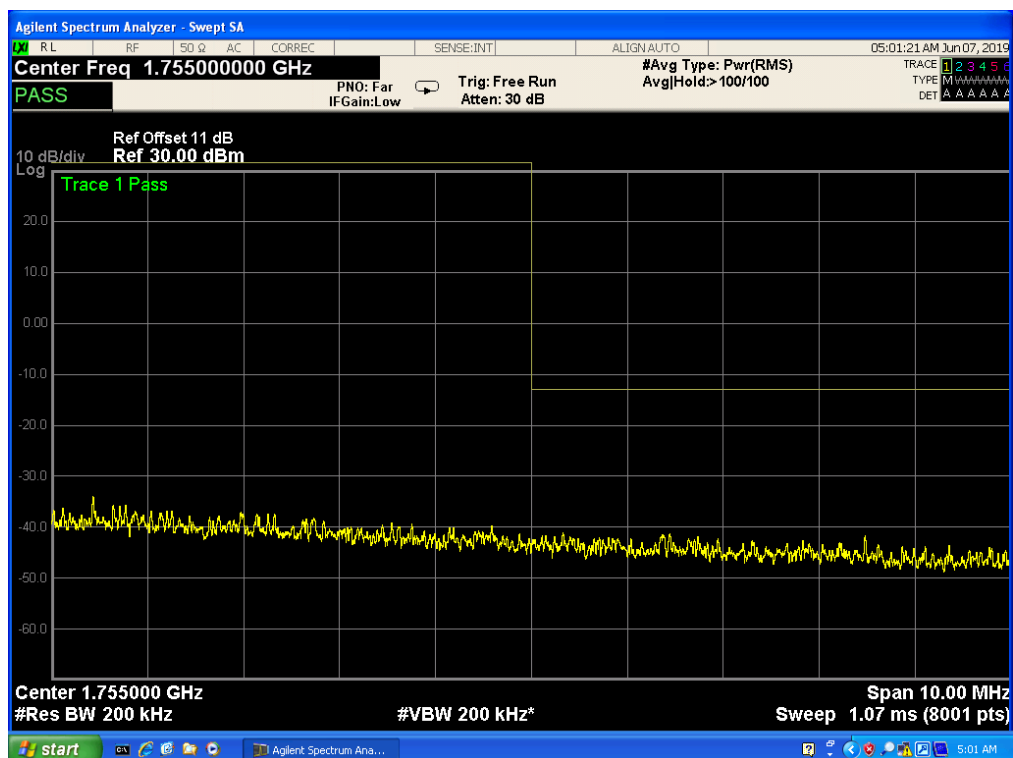
Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



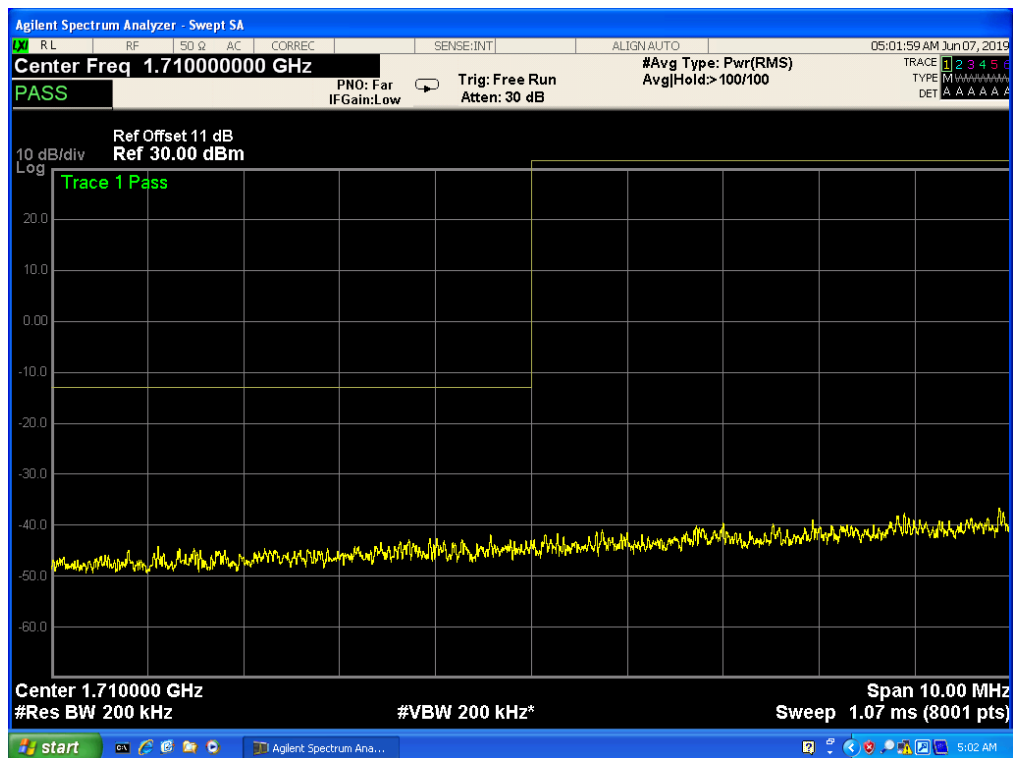
Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, 16QAM



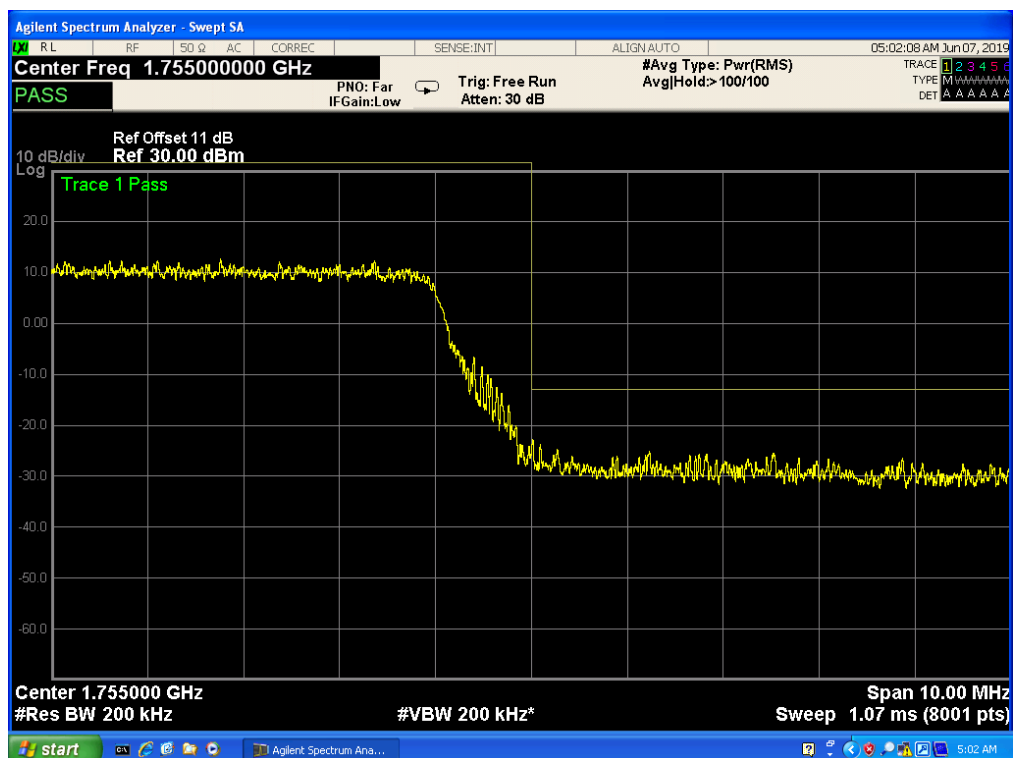
Band 4, UL Channel 20050, UL Frequency 1720.0, BW 20.0, NO. RB 100, RB POS. Low, 16QAM



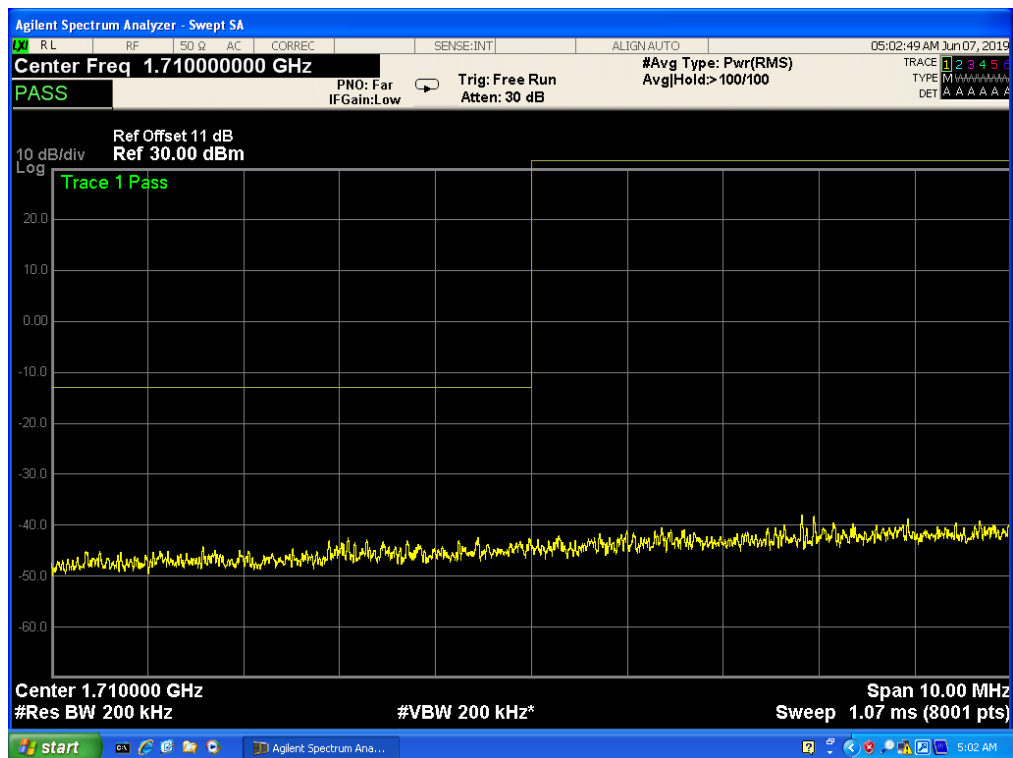
Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



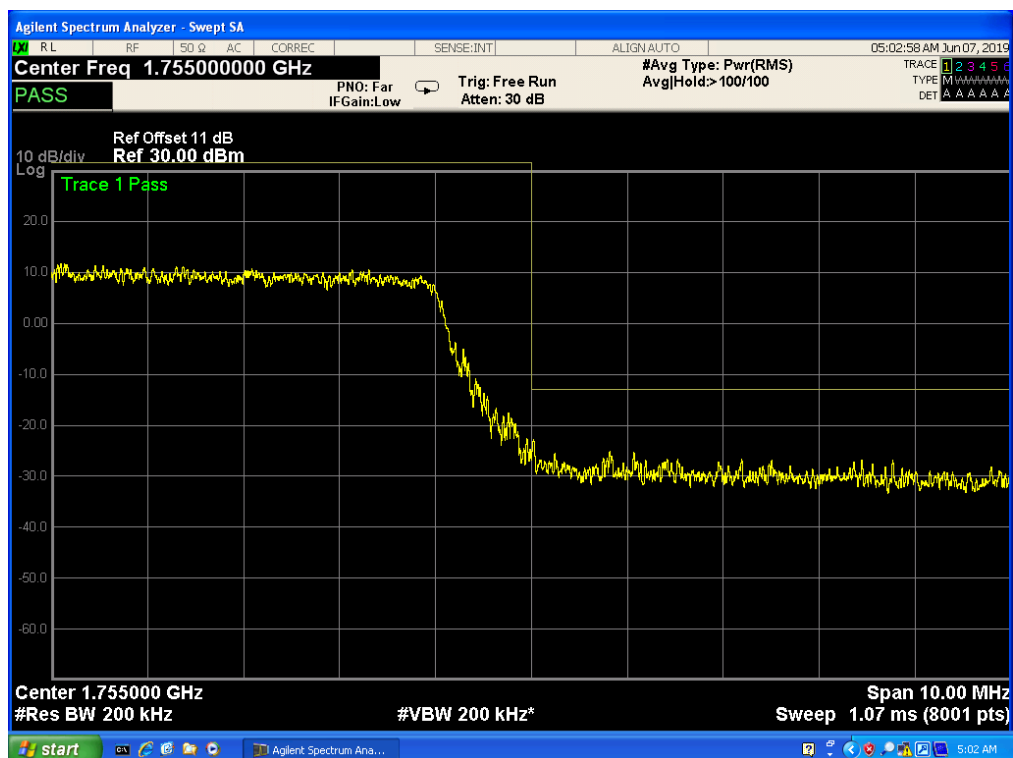
Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, 16QAM

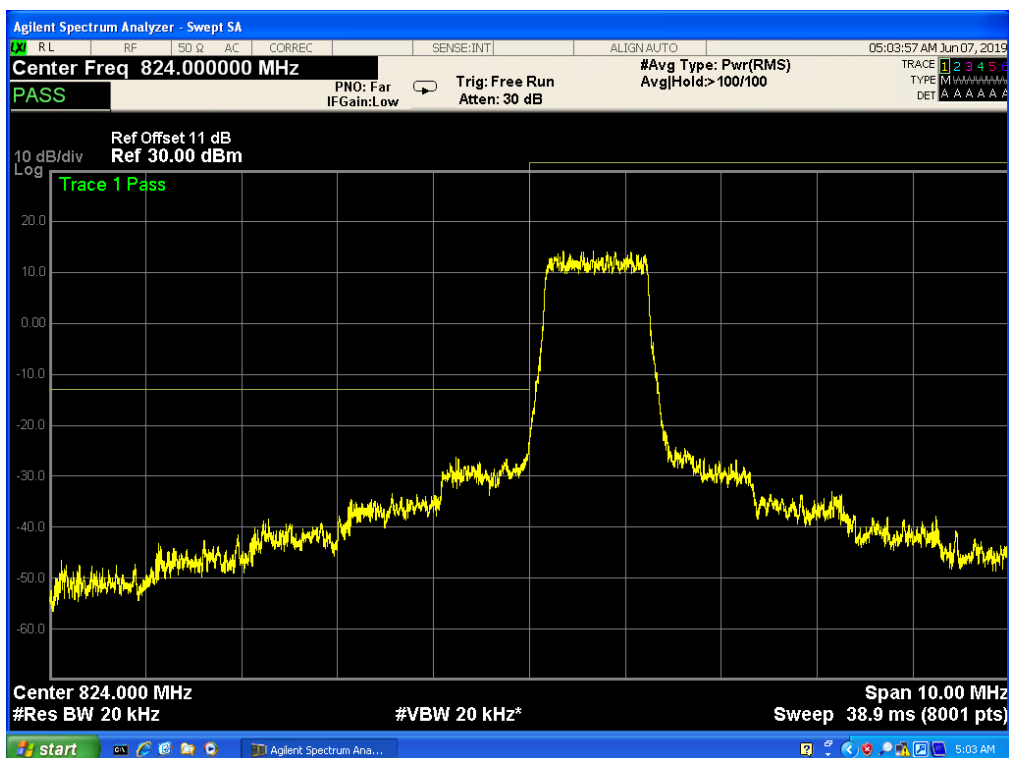


Band 4, UL Channel 20300, UL Frequency 1745.0, BW 20.0, NO. RB 100, RB POS. Low, 16QAM

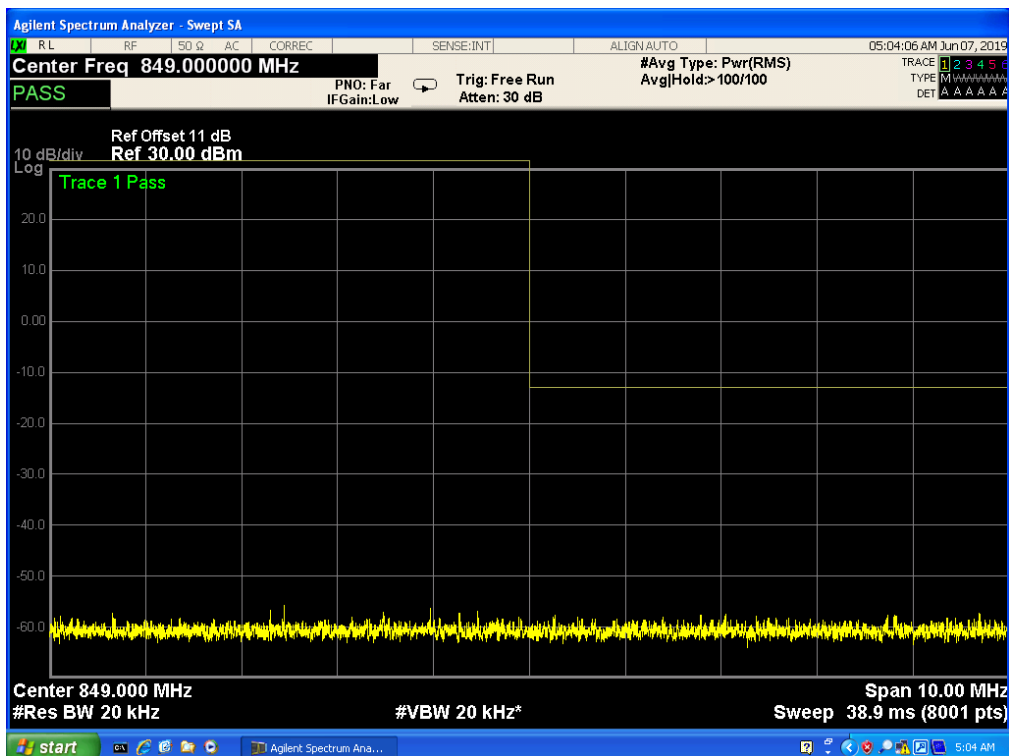


## 6.2 LTE BAND 5

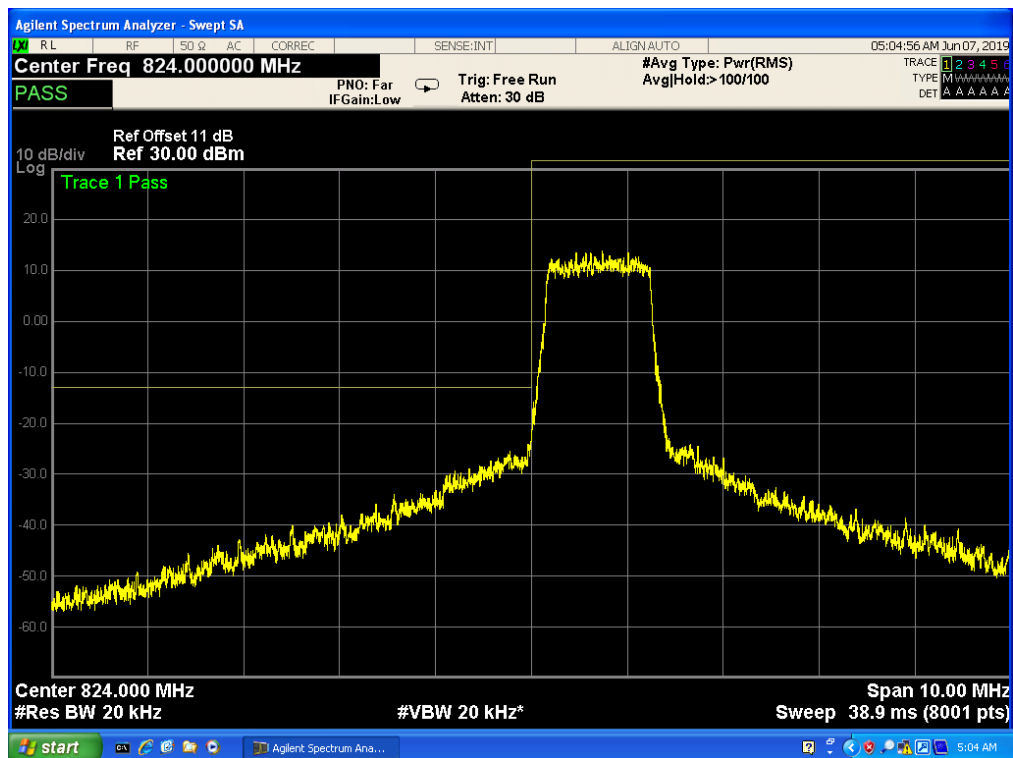
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



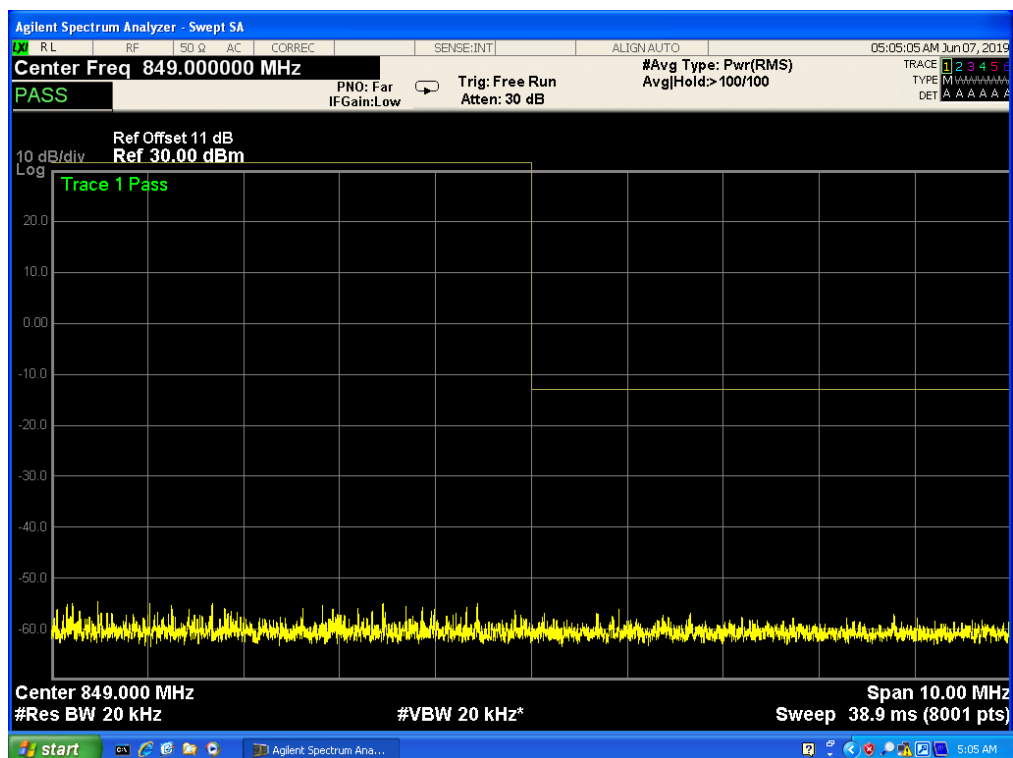
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK



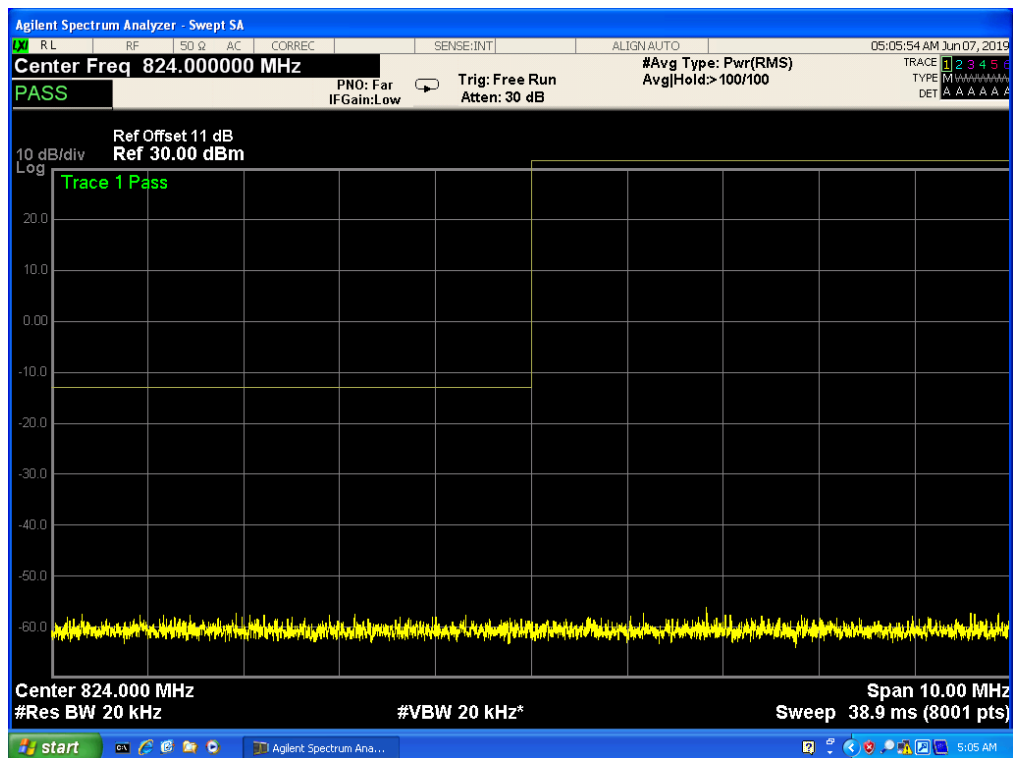
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



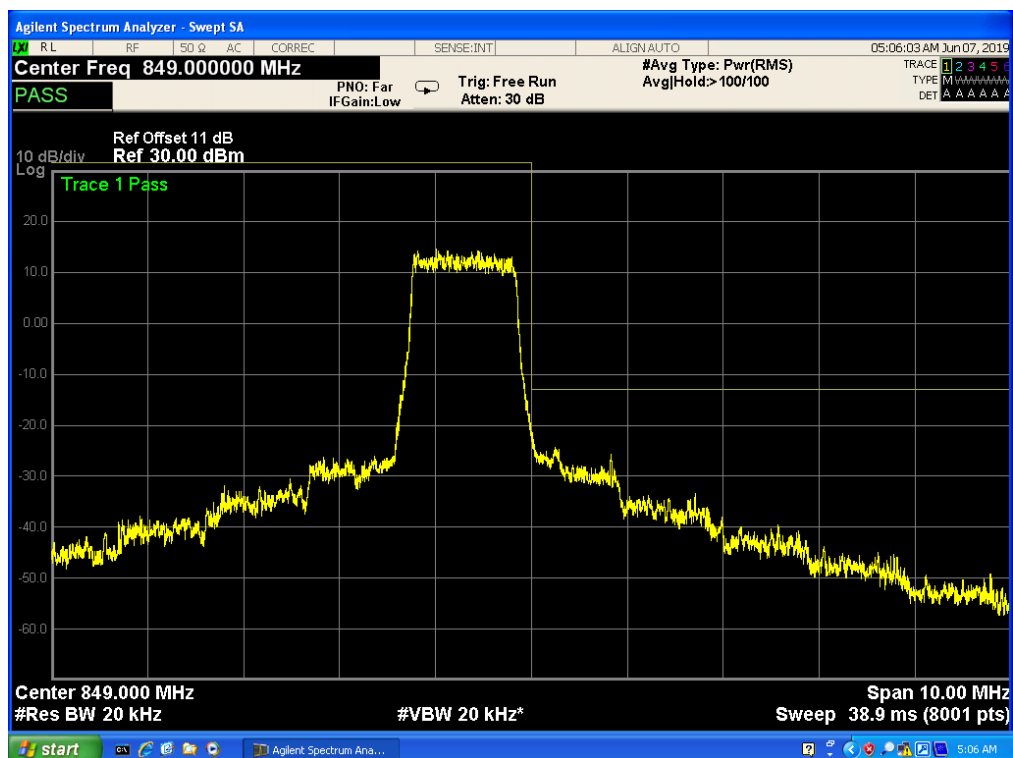
Band 5, UL Channel 20407, UL Frequency 824.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



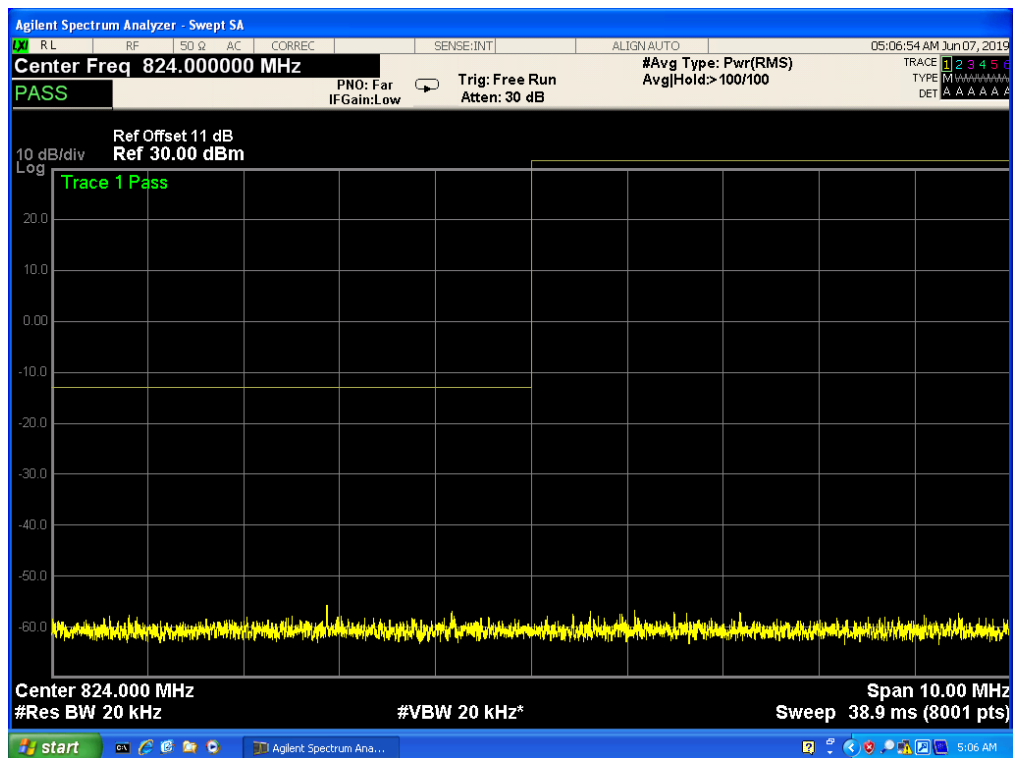
Band 5, UL Channel 20643, UL Frequency 848.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK



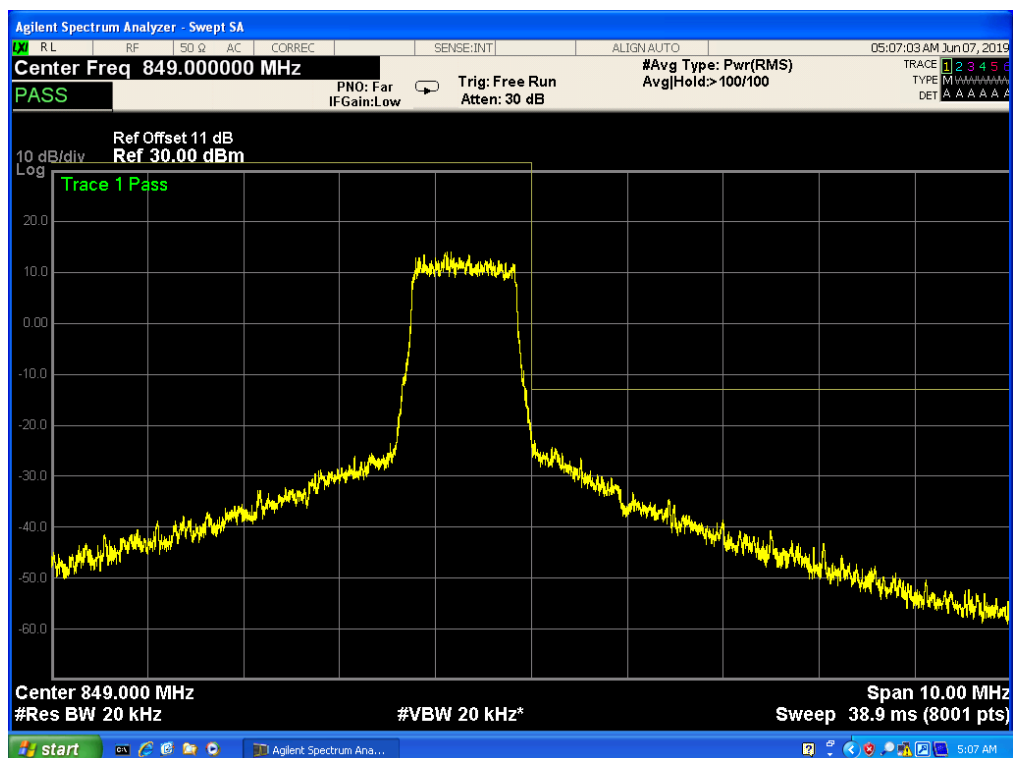
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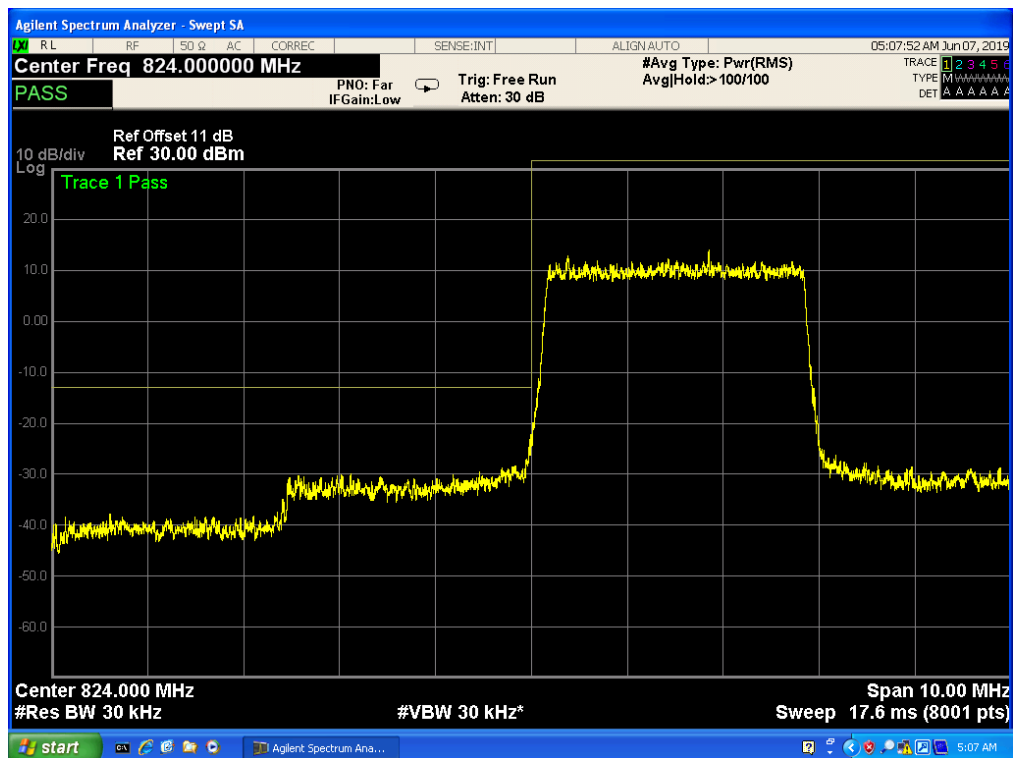
Band 5, UL Channel 20643, UL Frequency 848.3, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



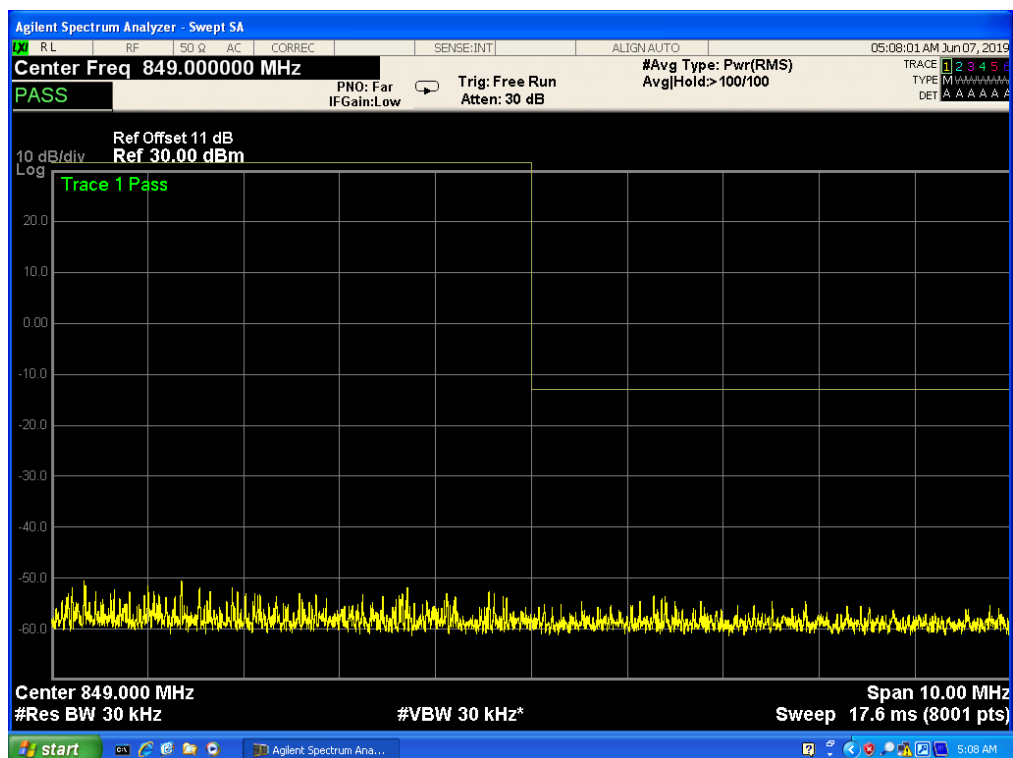
Band 5, UL Channel 20643, UL Frequency 848.3, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



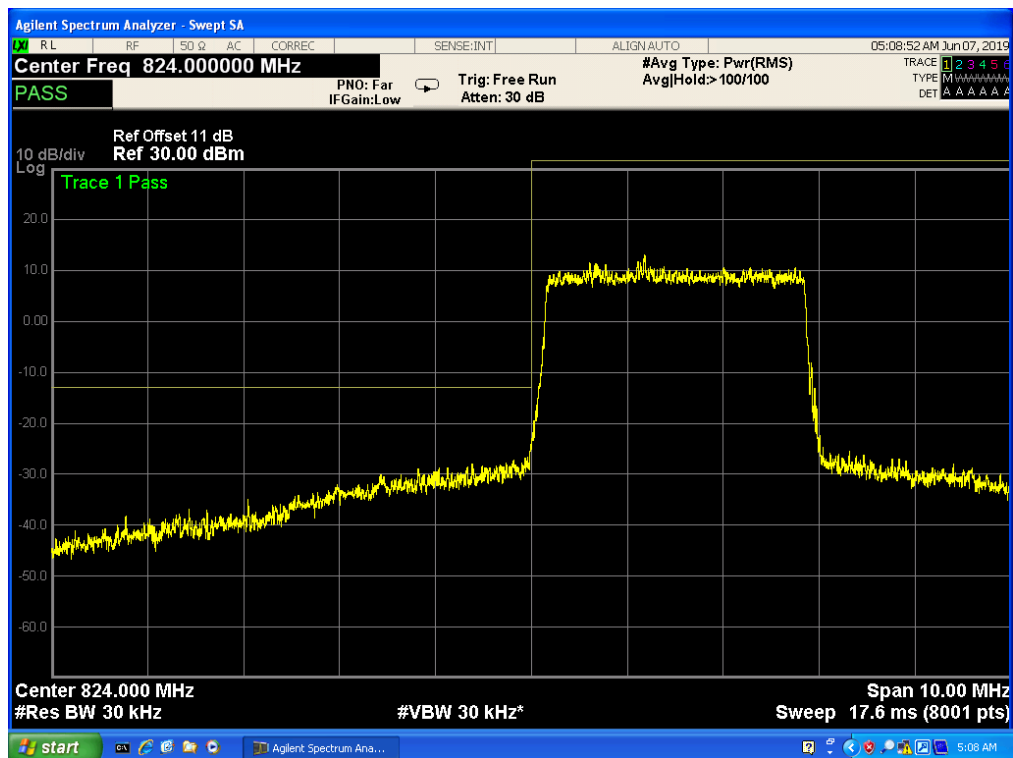
Band 5, UL Channel 20415, UL Frequency 825.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



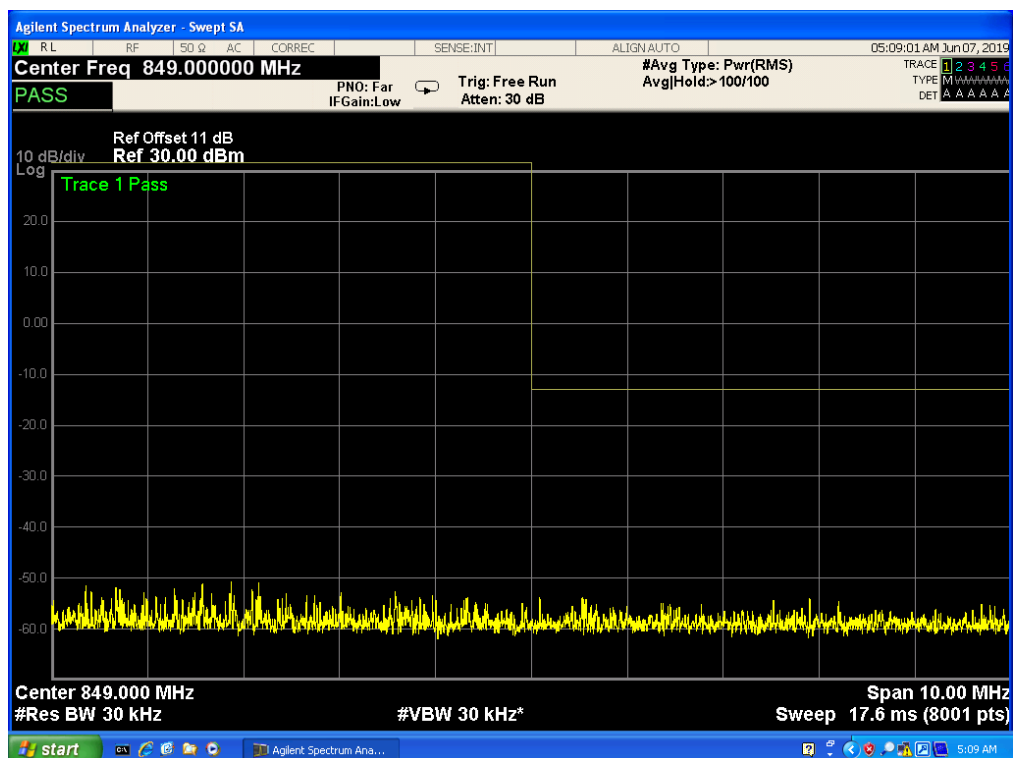
Band 5, UL Channel 20415, UL Frequency 825.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



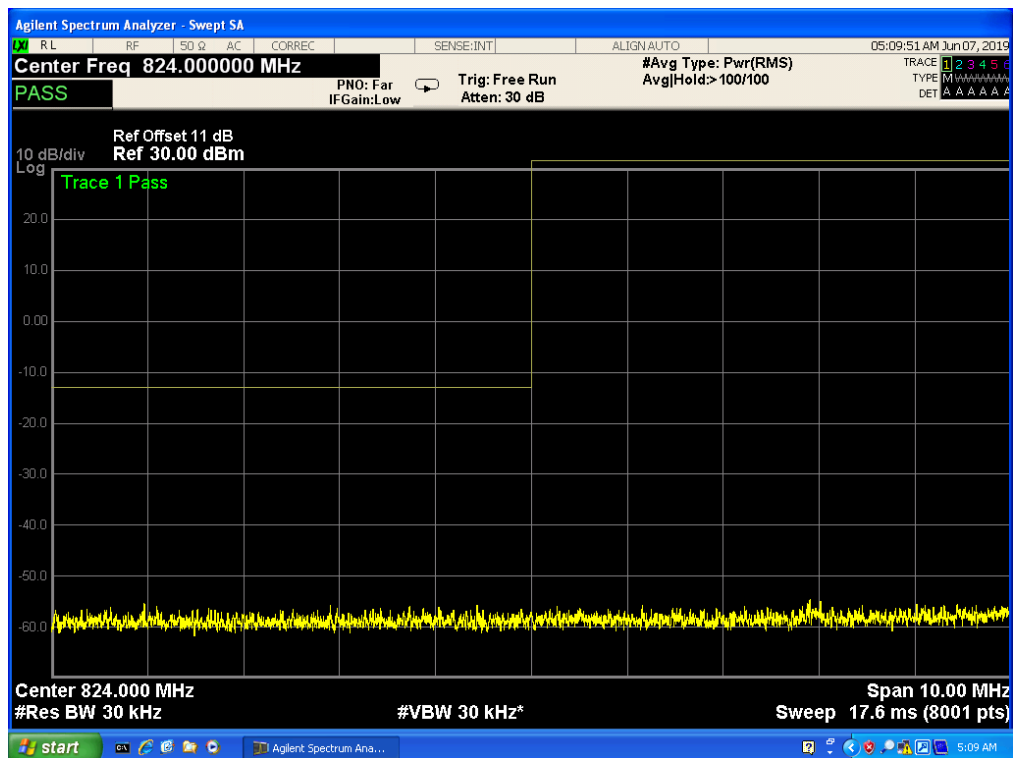
Band 5, UL Channel 20415, UL Frequency 825.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



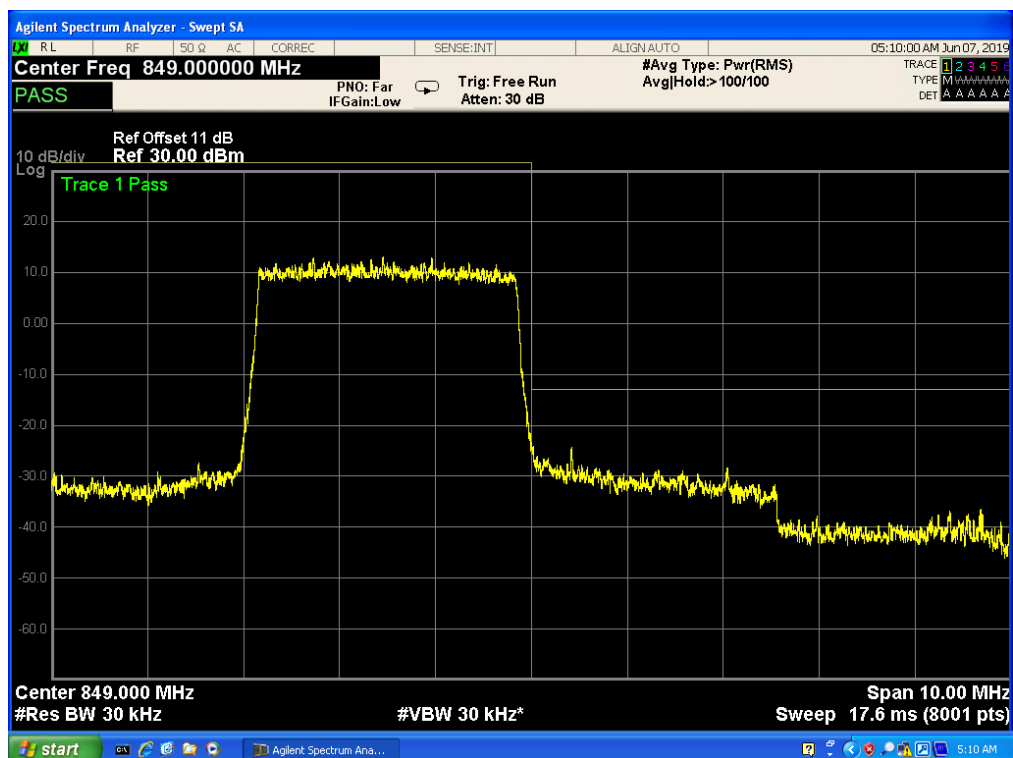
Band 5, UL Channel 20415, UL Frequency 825.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



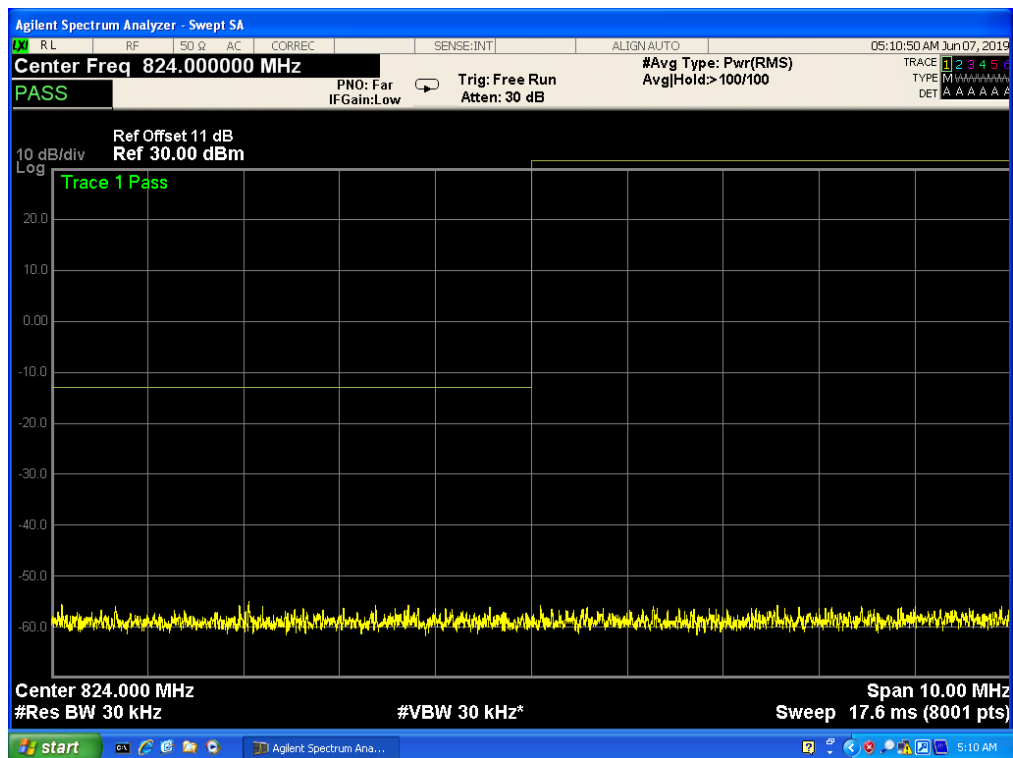
Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



Band 5, UL Channel 20635, UL Frequency 847.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM

