

## FCC Test Report

### (Part 22, Part 27, Part 90 – NSA Mode: n41A + LTE Band 26)

**Report No.:** RF200514C16A-4

**FCC ID:** T8GSAN9000

**Test Model:** SA-N9000 OEM D1

**Received Date:** May 14, 2020

**Test Date:** Nov. 10 ~ Dec. 15, 2020

**Issued Date:** Dec. 22, 2020

**Applicant:** Harman Connected Car Division

**Address:** Parking 3, 85748 Garching Germany

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, Taiwan

**FCC Registration /** 788550 / TW0003

**Designation Number:**



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### Release Control Record

| Issue No.      | Description      | Date Issued   |
|----------------|------------------|---------------|
| RF200514C16A-4 | Original release | Dec. 22, 2020 |

## 1 Certificate of Conformity

**Product:** Module

**Brand:** Harman

**Test Model:** SA-N9000 OEM D1

**Sample Status:** Standard Sample

**Applicant:** Harman Connected Car Division

**Test Date:** Nov. 10 ~ Dec. 15, 2020

**Standards:** FCC Part 22, Subpart H  
FCC Part 27, Subpart M  
FCC Part 90, Subpart S

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Celine Chou , **Date:** Dec. 22, 2020  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Dec. 22, 2020  
Bruce Chen / Senior Project Engineer

## 2 Summary of Test Results

For LTE Band 26

| Applied Standard: FCC Part 22 & Part 2 |                              |        |                                                                                     |
|----------------------------------------|------------------------------|--------|-------------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                    | Result | Remarks                                                                             |
| 2.1046<br>22.913 (a)                   | Effective radiated power     | Pass   | Meet the requirement of limit.                                                      |
| 2.1047                                 | Modulation Characteristics   | Pass   | Meet the requirement                                                                |
| 22.913 (d)                             | Peak To Average Ratio        | Pass   | Meet the requirement of limit.                                                      |
| 2.1055<br>22.355                       | Frequency Stability          | Pass   | Meet the requirement of limit.                                                      |
| 2.1049                                 | Occupied Bandwidth           | Pass   | Meet the requirement of limit.                                                      |
| 22.917                                 | Band Edge Measurements       | Pass   | Meet the requirement of limit.                                                      |
| 2.1051<br>22.917                       | Conducted Spurious Emissions | Pass   | Meet the requirement of limit.                                                      |
| 2.1053<br>22.917                       | Radiated Spurious Emissions  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -33.80dB at 1673.00MHz. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For n41

| Applied Standard: FCC Part 27 & Part 2 |                                                                    |        |                                                                                   |
|----------------------------------------|--------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                                                          | Result | Remarks                                                                           |
| 2.1046<br>27.50<br>(h)(2)              | Equivalent Isotropically Radiated Power                            | Pass   | Meet the requirement of limit.                                                    |
| ----                                   | Modulation Characteristics                                         | Pass   | Meet the requirement of limit.                                                    |
| ----                                   | Peak To Average Ratio                                              | Pass   | Meet the requirement of limit.                                                    |
| 2.1055<br>27.54                        | Frequency Stability<br>Stay with the authorized bands of operation | Pass   | Meet the requirement of limit.                                                    |
| 2.1049                                 | Occupied Bandwidth                                                 | Pass   | Meet the requirement of limit.                                                    |
| 2.1051<br>27.53<br>(m)(4)(6)           | Band Edge Measurements                                             | Pass   | Meet the requirement of limit.                                                    |
| 2.1051<br>27.53<br>(m)(4)(6)           | Conducted Spurious Emissions                                       | Pass   | Meet the requirement of limit.                                                    |
| 2.1053<br>27.53<br>(m)(4)(6)           | Radiated Spurious Emissions                                        | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -22.90dB at 53.28MHz. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 26

| Applied Standard: FCC Part 90 & Part 2 |                              |        |                                                                                     |
|----------------------------------------|------------------------------|--------|-------------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                    | Result | Remarks                                                                             |
| 2.1046<br>90.635(b)                    | Effective Radiated Power     | Pass   | Meet the requirement of limit.                                                      |
| 2.1047                                 | Modulation Characteristics   | Pass   | Meet the requirement.                                                               |
| 2.1055<br>90.213                       | Frequency Stability          | Pass   | Meet the requirement of limit.                                                      |
| 2.1049                                 | Occupied Bandwidth           | Pass   | Meet the requirement of limit.                                                      |
| 2.1051<br>90.691(a)                    | Emission Masks               | Pass   | Meet the requirement of limit.                                                      |
| 2.1051<br>90.691                       | Conducted Spurious Emissions | Pass   | Meet the requirement of limit.                                                      |
| 2.1053<br>90.691                       | Radiated Spurious Emissions  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -35.10dB at 1638.00MHz. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Frequency        | Expanded Uncertainty (k=2) ( $\pm$ ) |
|--------------------------------|------------------|--------------------------------------|
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz     | 3.04 dB                              |
|                                | 30MHz ~ 200MHz   | 3.63 dB                              |
|                                | 200MHz ~ 1000MHz | 3.64 dB                              |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz     | 2.29 dB                              |
|                                | 18GHz ~ 40GHz    | 2.29 dB                              |

## 2.2 Test Site and Instruments

| Description & Manufacturer                | Model No.                | Serial No.            | Cal. Date     | Cal. Due      |
|-------------------------------------------|--------------------------|-----------------------|---------------|---------------|
| Test Receiver<br>ROHDE & SCHWARZ          | ESCI                     | 100424                | Dec. 31, 2019 | Dec. 30, 2020 |
| Spectrum Analyzer<br>ROHDE & SCHWARZ      | FSP40                    | 100040                | Oct. 03, 2019 | Oct. 02, 2020 |
|                                           |                          |                       | Sep. 16, 2020 | Sep. 15, 2021 |
| Signal Analyzer<br>Keysight               | N9010A                   | MY56070348            | Sep. 09, 2019 | Sep. 08, 2020 |
|                                           |                          |                       | Sep. 16, 2020 | Sep. 15, 2021 |
| BILOG Antenna<br>SCHWARZBECK              | VULB9168                 | 9168-155              | Nov. 11, 2019 | Nov. 10, 2020 |
|                                           |                          |                       | Nov. 03, 2020 | Nov. 02, 2021 |
| HORN Antenna<br>SCHWARZBECK               | BBHA 9120D               | 9120D-1170            | Nov. 24, 2019 | Nov. 23, 2020 |
|                                           |                          |                       | Nov. 22, 2020 | Nov. 21, 2021 |
| HORN Antenna<br>SCHWARZBECK               | BBHA 9170                | BBHA9170241           | Nov. 24, 2019 | Nov. 23, 2020 |
|                                           |                          |                       | Nov. 22, 2020 | Nov. 21, 2021 |
| Horn Antenna ETS                          | 3117                     | 00034128              | Nov. 24, 2019 | Nov. 23, 2020 |
|                                           |                          |                       | Nov. 22, 2020 | Nov. 21, 2021 |
| MXG Vector signal generator<br>Agilent    | N5182B                   | MY53050162            | Jan. 14, 2020 | Jan. 13, 2021 |
| Spectrum Analyzer<br>KEYSIGHT             | N9030B                   | MY57140953            | Jul. 02, 2020 | Jul. 01, 2021 |
| 5G Wireless Test Platforms<br>Keysight    | E7515B                   | MY58300759            | Apr. 18, 2020 | Apr. 17, 2021 |
| Loop Antenna<br>TESEQ                     | HLA 6121                 | 45745                 | Jul. 06, 2020 | Jul. 05, 2021 |
| Preamplifier<br>Agilent<br>(Below 1GHz)   | 8447D                    | 2944A10631            | Jun. 08, 2020 | Jun. 07, 2021 |
| Preamplifier<br>KEYSIGHT<br>(Above 1GHz)  | 83017A                   | MY53270295            | Jun. 08, 2020 | Jun. 07, 2021 |
| RF Coaxial Cable<br>WOKEN<br>With 5dB PAD | 8D-FB                    | Cable-CH4-01          | Aug. 20, 2019 | Aug. 19, 2020 |
|                                           |                          |                       | Aug. 16, 2020 | Aug. 15, 2021 |
| RF Coaxial Cable<br>EMCI                  | EMC102-KM-KM-3000        | 150929                | Aug. 20, 2019 | Aug. 19, 2020 |
|                                           |                          |                       | Aug. 16, 2020 | Aug. 15, 2021 |
| RF Coaxial Cable<br>EMCI                  | EMC102-KM-KM-600         | 150928                | Aug. 20, 2019 | Aug. 19, 2020 |
|                                           |                          |                       | Aug. 16, 2020 | Aug. 15, 2021 |
| RF signal cable<br>HUBER+SUHNER           | SUCOFLEX 104             | MY 13380+295012/04    | Jun. 08, 2020 | Jun. 07, 2021 |
| RF signal cable<br>HUBER+SUHNER           | SUCOFLEX 104             | Cable-CH4-03 (250724) | Jun. 08, 2020 | Jun. 07, 2021 |
| Software<br>BV ADT                        | ADT_Radiated_V7.6.15.9.5 | NA                    | NA            | NA            |
| Antenna Tower<br>inn-co GmbH              | MA 4000                  | 010303                | NA            | NA            |
| Antenna Tower Controller<br>BV ADT        | AT100                    | AT93021703            | NA            | NA            |
| Turn Table<br>BV ADT                      | TT100                    | TT93021703            | NA            | NA            |
| Turn Table Controller<br>BV ADT           | SC100                    | SC93021703            | NA            | NA            |
| Boresight Antenna Fixture                 | FBA-01                   | FBA-SIP01             | NA            | NA            |

| Description & Manufacturer                             | Model No.    | Serial No. | Cal. Date     | Cal. Due      |
|--------------------------------------------------------|--------------|------------|---------------|---------------|
| Pre-amplifier (18GHz-40GHz)<br>EMC                     | EMC184045B   | 980175     | Sep. 09, 2019 | Sep. 08, 2020 |
|                                                        |              |            | Sep. 04, 2020 | Sep. 03, 2021 |
| Standard Temperature And<br>Humidity Chamber<br>TERCHY | MHU-225AU    | 920842     | May 27, 2020  | May 26, 2021  |
| JFW 20dB attenuation                                   | 50HF-020-SMA | NA         | NA            | NA            |
| True RMS Clamp Meter<br>Fluke                          | 325          | 31130711WS | Jun. 06, 2020 | Jun. 05, 2021 |
| DC power supply                                        | U8002A       | MY56330015 | NA            | NA            |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa Chamber 4.

### 3 General Information

#### 3.1 General Description of EUT

|                     |                 |
|---------------------|-----------------|
| Product             | Module          |
| Brand               | Harman          |
| Test Model          | SA-N9000 OEM D1 |
| Sample Status       | Standard Sample |
| Power Supply rating | 4.2Vdc          |

# n41

|                     |                                          |                         |                         |                         |                         |                        |
|---------------------|------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| Modulation Type     | $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM |                         |                         |                         |                         |                        |
| Waveform Type       | CP-OFDM, DFT-s-OFDM                      |                         |                         |                         |                         |                        |
| Operating Frequency | n41 (Channel Bandwidth: 10MHz)           | 2501.01 ~ 2685.00MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 15MHz)           | 2503.50 ~ 2682.48MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 20MHz)           | 2506.02 ~ 2679.99MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 40MHz)           | 2516.01 ~ 2670.00MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 50MHz)           | 2521.02 ~ 2664.99MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 60MHz)           | 2526.00 ~ 2659.98MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 80MHz)           | 2536.02 ~ 2649.99MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 90MHz)           | 2541.00 ~ 2644.98MHz    |                         |                         |                         |                        |
|                     | n41 (Channel Bandwidth: 100MHz)          | 2546.01 ~ 2640.00MHz    |                         |                         |                         |                        |
| Max. EIRP Power     |                                          | $\pi/2$ BPSK            | QPSK                    | 16QAM                   | 64QAM                   | 256QAM                 |
|                     | n41 (Channel Bandwidth: 10MHz)           | 397.192mW<br>(25.99dBm) | 199.067mW<br>(22.99dBm) | 184.077mW<br>(22.65dBm) | 168.655mW<br>(22.27dBm) | 93.111mW<br>(19.69dBm) |
|                     | n41 (Channel Bandwidth: 15MHz)           | 398.107mW<br>(26.00dBm) | 198.609mW<br>(22.98dBm) | 185.780mW<br>(22.69dBm) | 169.434mW<br>(22.29dBm) | 93.325mW<br>(19.70dBm) |
|                     | n41 (Channel Bandwidth: 20MHz)           | 398.107mW<br>(26.00dBm) | 199.526mW<br>(23.00dBm) | 186.209mW<br>(22.70dBm) | 169.044mW<br>(22.28dBm) | 93.111mW<br>(19.69dBm) |
|                     | n41 (Channel Bandwidth: 40MHz)           | 398.107mW<br>(26.00dBm) | 198.609mW<br>(22.98dBm) | 184.927mW<br>(22.67dBm) | 169.434mW<br>(22.29dBm) | 92.470mW<br>(19.66dBm) |
|                     | n41 (Channel Bandwidth: 50MHz)           | 398.107mW<br>(26.00dBm) | 199.067mW<br>(22.99dBm) | 199.067mW<br>(22.99dBm) | 177.419mW<br>(22.49dBm) | 89.125mW<br>(19.50dBm) |
|                     | n41 (Channel Bandwidth: 60MHz)           | 397.192mW<br>(25.99dBm) | 199.067mW<br>(22.99dBm) | 185.780mW<br>(22.69dBm) | 169.824mW<br>(22.30dBm) | 93.325mW<br>(19.70dBm) |
|                     | n41 (Channel Bandwidth: 80MHz)           | 398.107mW<br>(26.00dBm) | 199.526mW<br>(23.00dBm) | 185.780mW<br>(22.69dBm) | 168.267mW<br>(22.26dBm) | 93.111mW<br>(19.69dBm) |
|                     | n41 (Channel Bandwidth: 90MHz)           | 396.278mW<br>(25.98dBm) | 198.609mW<br>(22.98dBm) | 186.209mW<br>(22.70dBm) | 169.434mW<br>(22.29dBm) | 93.325mW<br>(19.70dBm) |
|                     | n41 (Channel Bandwidth: 100MHz)          | 398.107mW<br>(26.00dBm) | 199.067mW<br>(22.99dBm) | 185.353mW<br>(22.68dBm) | 169.824mW<br>(22.30dBm) | 92.897mW<br>(19.68dBm) |
| Emission Designator |                                          | $\pi/2$ BPSK            | QPSK                    | 16QAM                   | 64QAM                   | 256QAM                 |
|                     | n41 (Channel Bandwidth: 10MHz)           | 8M57G7D                 | 8M58G7D                 | 8M57D7W                 | 8M54D7W                 | 8M54D7W                |
|                     | n41 (Channel Bandwidth: 15MHz)           | 12M8G7D                 | 12M9G7D                 | 12M8D7W                 | 12M8D7W                 | 12M8D7W                |
|                     | n41 (Channel Bandwidth: 20MHz)           | 17M9G7D                 | 17M9G7D                 | 17M8D7W                 | 17M8D7W                 | 17M8D7W                |
|                     | n41 (Channel Bandwidth: 40MHz)           | 35M7G7D                 | 35M7G7D                 | 35M7D7W                 | 35M7D7W                 | 35M7D7W                |
|                     | n41 (Channel Bandwidth: 50MHz)           | 45M6G7D                 | 45M7G7D                 | 45M6D7W                 | 45M6D7W                 | 45M6D7W                |
|                     | n41 (Channel Bandwidth: 60MHz)           | 57M7G7D                 | 57M7G7D                 | 57M7D7W                 | 57M7D7W                 | 57M7D7W                |
|                     | n41 (Channel Bandwidth: 80MHz)           | 77M0G7D                 | 77M0G7D                 | 77M0D7W                 | 77M1D7W                 | 77M0D7W                |
|                     | n41 (Channel Bandwidth: 90MHz)           | 85M5G7D                 | 85M5G7D                 | 85M5D7W                 | 85M5D7W                 | 85M5D7W                |
|                     | n41 (Channel Bandwidth: 100MHz)          | 96M1G7D                 | 96M2G7D                 | 96M2D7W                 | 96M2D7W                 | 96M2D7W                |

## LTE Band

| Modulation Type                        | QPSK, 16QAM, 64QAM, 256QAM             |                                         |                                         |                         |                         |                        |         |
|----------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------|-------------------------|------------------------|---------|
| Operating Frequency                    | Part 22                                | LTE Band 26 (Channel Bandwidth: 1.4MHz) | 824.7 ~ 848.3MHz                        |                         |                         |                        |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 3MHz)   | 825.5 ~ 847.5MHz                        |                         |                         |                        |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 5MHz)   | 826.5 ~ 846.5MHz                        |                         |                         |                        |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 10MHz)  | 829.0 ~ 844.0MHz                        |                         |                         |                        |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 15MHz)  | 831.5 ~ 841.5MHz                        |                         |                         |                        |         |
|                                        | Part 90                                | LTE Band 26 (Channel Bandwidth: 1.4MHz) | 814.7 ~ 823.3MHz                        |                         |                         |                        |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 3MHz)   | 815.5 ~ 822.5MHz                        |                         |                         |                        |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 5MHz)   | 816.5 ~ 821.5MHz                        |                         |                         |                        |         |
| LTE Band 26 (Channel Bandwidth: 10MHz) |                                        | 819.0MHz                                |                                         |                         |                         |                        |         |
| Max. ERP Power                         |                                        |                                         | QPSK                                    | 16QAM                   | 64QAM                   | 256QAM                 |         |
|                                        | Part 22                                | LTE Band 26 (Channel Bandwidth: 1.4MHz) | 179.473mW<br>(22.54dBm)                 | 138.357mW<br>(21.41dBm) | 111.686mW<br>(20.48dBm) | 71.779mW<br>(18.56dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 3MHz)   | 177.419mW<br>(22.49dBm)                 | 142.233mW<br>(21.53dBm) | 112.460mW<br>(20.51dBm) | 70.632mW<br>(18.49dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 5MHz)   | 178.238mW<br>(22.51dBm)                 | 141.906mW<br>(21.52dBm) | 112.202mW<br>(20.50dBm) | 71.450mW<br>(18.54dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 10MHz)  | 179.061mW<br>(22.53dBm)                 | 141.906mW<br>(21.52dBm) | 113.240mW<br>(20.54dBm) | 71.450mW<br>(18.54dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 15MHz)  | 179.887mW<br>(22.55dBm)                 | 143.219mW<br>(21.56dBm) | 113.763mW<br>(20.56dBm) | 70.307mW<br>(18.47dBm) |         |
|                                        | Part 90                                | LTE Band 26 (Channel Bandwidth: 1.4MHz) | 178.238mW<br>(22.51dBm)                 | 139.959mW<br>(21.46dBm) | 113.501mW<br>(20.55dBm) | 69.663mW<br>(18.43dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 3MHz)   | 178.649mW<br>(22.52dBm)                 | 142.561mW<br>(21.54dBm) | 110.662mW<br>(20.44dBm) | 71.450mW<br>(18.54dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 5MHz)   | 178.649mW<br>(22.52dBm)                 | 141.254mW<br>(21.50dBm) | 113.501mW<br>(20.55dBm) | 71.285mW<br>(18.53dBm) |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 10MHz)  | 171.791mW<br>(22.35dBm)                 | 136.458mW<br>(21.35dBm) | 106.414mW<br>(20.27dBm) | 66.988mW<br>(18.26dBm) |         |
|                                        | Emission Designator                    | Part 22                                 |                                         | QPSK                    | 16QAM                   | 64QAM                  | 256QAM  |
|                                        |                                        |                                         | LTE Band 26 (Channel Bandwidth: 1.4MHz) | 1M09G7D                 | 1M09G7D                 | 1M09D7W                | 1M09D7W |
| LTE Band 26 (Channel Bandwidth: 3MHz)  |                                        |                                         | 2M68G7D                                 | 2M68G7D                 | 2M68D7W                 | 2M69D7W                |         |
| LTE Band 26 (Channel Bandwidth: 5MHz)  |                                        |                                         | 4M49G7D                                 | 4M50G7D                 | 4M49D7W                 | 4M50D7W                |         |
| LTE Band 26 (Channel Bandwidth: 10MHz) |                                        |                                         | 8M98G7D                                 | 8M98G7D                 | 8M98D7W                 | 8M98D7W                |         |
| LTE Band 26 (Channel Bandwidth: 15MHz) |                                        |                                         | 13M4G7D                                 | 13M4G7D                 | 13M4D7W                 | 13M4D7W                |         |
| Part 90                                |                                        | LTE Band 26 (Channel Bandwidth: 1.4MHz) | 1M09G7D                                 | 1M09G7D                 | 1M09D7W                 | 1M09D7W                |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 3MHz)   | 2M68G7D                                 | 2M69G7D                 | 2M68D7W                 | 2M69D7W                |         |
|                                        |                                        | LTE Band 26 (Channel Bandwidth: 5MHz)   | 4M50G7D                                 | 4M50G7D                 | 4M50D7W                 | 4M49D7W                |         |
|                                        | LTE Band 26 (Channel Bandwidth: 10MHz) | 8M97G7D                                 | 8M97G7D                                 | 8M97D7W                 | 8M97D7W                 |                        |         |
| Antenna Type                           | Refer to note                          |                                         |                                         |                         |                         |                        |         |
| Antenna Connector                      | Refer to note                          |                                         |                                         |                         |                         |                        |         |
| Accessory Device                       | NA                                     |                                         |                                         |                         |                         |                        |         |
| Cable Supplied                         | NA                                     |                                         |                                         |                         |                         |                        |         |

Note:

1. The antenna information is listed as below.

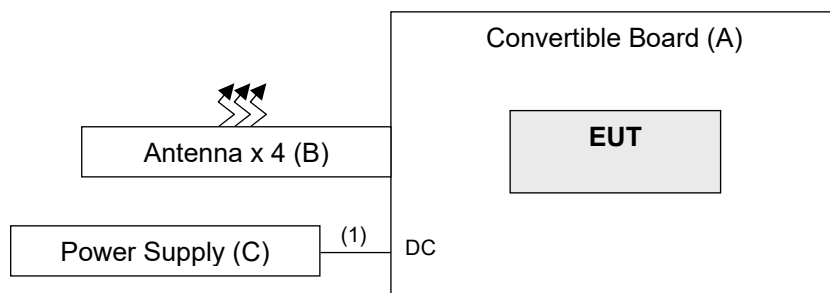
| Operating frequency band | Antenna                                  | Gain (dBi) | Connector Type |
|--------------------------|------------------------------------------|------------|----------------|
| Band 2                   | 5G/4G Terminal Mount<br>Monopole Antenna | 2.92       | SMA            |
| Band 5                   |                                          | 1.01       |                |
| Band 7                   |                                          | 2.20       |                |
| Band 12                  |                                          | -1.17      |                |
| Band 25                  |                                          | 2.97       |                |
| Band 38                  |                                          | 2.18       |                |
| Band 41                  |                                          | 2.20       |                |
| Band 66                  |                                          | 3.44       |                |
| Band 71                  |                                          | 1.72       |                |
| Band 77                  |                                          | 2.61       |                |

\* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2. The EUT supports the following ENDC configuration.

| 5GNR | FCC 5G FR1 |       |                             | ENDC      |
|------|------------|-------|-----------------------------|-----------|
|      | Band       | SCS   | Bandwidth (MHz)             |           |
|      | n5         | 15kHz | 5/10/15/20                  | Band 2/66 |
|      | n41        | 30kHz | 10/15/20/40/50/60/80/90/100 | Band 26   |
|      | n66        | 15kHz | 5/10/15/20/40               | Band 5/12 |
|      | n71        | 15kHz | 5/10/15/20                  | Band 2/66 |

## 3.2 Configuration of System under Test



### 3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product           | Brand   | Model No.  | Serial No. | FCC ID | Remarks            |
|----|-------------------|---------|------------|------------|--------|--------------------|
| A. | Convertible Board | NA      | NA         | NA         | NA     | Provided by client |
| B. | Antenna x 4       | TAOGLAS | TG.55.8113 | NA         | NA     | Provided by client |
| C. | DC Power supply   | TECPEL  | GPS-3030DD | GEO855739  | NA     | -                  |

Note: All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|---------|
| 1. | DC cable     | 1    | 1          | N                  | 0            | -       |

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below.

n41

| EUT Configure Mode | Test item | Available channel | Tested channel                                                      | Channel Bandwidth | Modulation                                            | Mode                                                                                                                                                                  |
|--------------------|-----------|-------------------|---------------------------------------------------------------------|-------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -                  | EIRP      | 500202 to 537000  | 500202 (2501.01MHz),<br>518598 (2592.99MHz),<br>537000 (2685.00MHz) | 10MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 12 RB Offset<br>1 RB / 23 RB Offset<br>12 RB / 0 RB Offset<br>12 RB / 6 RB Offset<br>12 RB / 12 RB Offset<br>24 RB / 0 RB Offset         |
|                    |           | 500700 to 536496  | 500700 (2503.50MHz),<br>518598 (2592.99MHz),<br>536496 (2682.48MHz) | 15MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 19 RB Offset<br>1 RB / 37 RB Offset<br>19 RB / 0 RB Offset<br>19 RB / 9 RB Offset<br>19 RB / 20 RB Offset<br>38 RB / 0 RB Offset         |
|                    |           | 501204 to 535998  | 501204 (2506.02MHz),<br>518598 (2592.99MHz),<br>535998 (2679.99MHz) | 20MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 25 RB Offset<br>1 RB / 50 RB Offset<br>25 RB / 0 RB Offset<br>25 RB / 12 RB Offset<br>25 RB / 25 RB Offset<br>51 RB / 0 RB Offset        |
|                    |           | 503202 to 534000  | 503202 (2516.01MHz),<br>518598 (2592.99MHz),<br>534000 (2670.00MHz) | 40MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 53 RB Offset<br>1 RB / 105 RB Offset<br>53 RB / 0 RB Offset<br>53 RB / 26 RB Offset<br>53 RB / 53 RB Offset<br>106 RB / 0 RB Offset      |
|                    |           | 504204 to 532998  | 504204 (2521.02MHz),<br>518598 (2592.99MHz),<br>532998 (2664.99MHz) | 50MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 66 RB Offset<br>1 RB / 132 RB Offset<br>66 RB / 0 RB Offset<br>66 RB / 33 RB Offset<br>66 RB / 66 RB Offset<br>133 RB / 0 RB Offset      |
|                    |           | 505200 to 531996  | 505200 (2526.00MHz),<br>518598 (2592.99MHz),<br>531996 (2659.98MHz) | 60MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 81 RB Offset<br>1 RB / 161 RB Offset<br>81 RB / 0 RB Offset<br>81 RB / 40 RB Offset<br>81 RB / 81 RB Offset<br>162 RB / 0 RB Offset      |
|                    |           | 507204 to 529998  | 507204 (2536.02MHz),<br>518598 (2592.99MHz),<br>529998 (2649.99MHz) | 80MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 108 RB Offset<br>1 RB / 216 RB Offset<br>108 RB / 0 RB Offset<br>108 RB / 54 RB Offset<br>108 RB / 108 RB Offset<br>217 RB / 0 RB Offset |
|                    |           | 508200 to 528996  | 508200 (2541.00MHz),<br>518598 (2592.99MHz),<br>528996 (2644.98MHz) | 90MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 122 RB Offset<br>1 RB / 244 RB Offset<br>122 RB / 0 RB Offset<br>122 RB / 61 RB Offset<br>122 RB / 122 RB Offset<br>245 RB / 0 RB Offset |

| EUT Configure Mode | Test item                  | Available channel | Tested channel                                                      | Channel Bandwidth | Modulation                                            | Mode                                                                                                                                                                  |
|--------------------|----------------------------|-------------------|---------------------------------------------------------------------|-------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -                  | EIRP                       | 509202 to 528000  | 509202 (2546.01MHz),<br>518598 (2592.99MHz),<br>528000 (2640.00MHz) | 100MHz            | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 136 RB Offset<br>1 RB / 272 RB Offset<br>136 RB / 0 RB Offset<br>136 RB / 68 RB Offset<br>136 RB / 136 RB Offset<br>273 RB / 0 RB Offset |
| -                  | Modulation Characteristics | 509202 to 528000  | 518598 (2592.99MHz)                                                 | 100MHz            | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 273 RB / 0 RB Offset                                                                                                                                                  |
| -                  | Frequency Stability        | 500202 to 537000  | 500202 (2501.01MHz),<br>537000 (2685.00MHz)                         | 10MHz             | $\pi/2$ BPSK                                          | 24 RB / 0 RB Offset                                                                                                                                                   |
|                    |                            | 500700 to 536496  | 500700 (2503.50MHz),<br>536496 (2682.48MHz)                         | 15MHz             | $\pi/2$ BPSK                                          | 38 RB / 0 RB Offset                                                                                                                                                   |
|                    |                            | 501204 to 535998  | 501204 (2506.02MHz),<br>535998 (2679.99MHz)                         | 20MHz             | $\pi/2$ BPSK                                          | 51 RB / 0 RB Offset                                                                                                                                                   |
|                    |                            | 503202 to 534000  | 503202 (2516.01MHz),<br>534000 (2670.00MHz)                         | 40MHz             | $\pi/2$ BPSK                                          | 106 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 504204 to 532998  | 504204 (2521.02MHz),<br>532998 (2664.99MHz)                         | 50MHz             | $\pi/2$ BPSK                                          | 133 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 505200 to 531996  | 505200 (2526.00MHz),<br>531996 (2659.98MHz)                         | 60MHz             | $\pi/2$ BPSK                                          | 162 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 507204 to 529998  | 507204 (2536.02MHz),<br>529998 (2649.99MHz)                         | 80MHz             | $\pi/2$ BPSK                                          | 217 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 508200 to 528996  | 508200 (2541.00MHz),<br>528996 (2644.98MHz)                         | 90MHz             | $\pi/2$ BPSK                                          | 245 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 509202 to 528000  | 509202 (2546.01MHz),<br>528000 (2640.00MHz)                         | 100MHz            | $\pi/2$ BPSK                                          | 273 RB / 0 RB Offset                                                                                                                                                  |
| -                  | Emission Bandwidth         | 500202 to 537000  | 500202 (2501.01MHz),<br>518598 (2592.99MHz),<br>537000 (2685.00MHz) | 10MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 24 RB / 0 RB Offset                                                                                                                                                   |
|                    |                            | 500700 to 536496  | 500700 (2503.50MHz),<br>518598 (2592.99MHz),<br>536496 (2682.48MHz) | 15MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 38 RB / 0 RB Offset                                                                                                                                                   |
|                    |                            | 501204 to 535998  | 501204 (2506.02MHz),<br>518598 (2592.99MHz),<br>535998 (2679.99MHz) | 20MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 51 RB / 0 RB Offset                                                                                                                                                   |
|                    |                            | 503202 to 534000  | 503202 (2516.01MHz),<br>518598 (2592.99MHz),<br>534000 (2670.00MHz) | 40MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 106 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 504204 to 532998  | 504204 (2521.02MHz),<br>518598 (2592.99MHz),<br>532998 (2664.99MHz) | 50MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 133 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 505200 to 531996  | 505200 (2526.00MHz),<br>518598 (2592.99MHz),<br>531996 (2659.98MHz) | 60MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 162 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 507204 to 529998  | 507204 (2536.02MHz),<br>518598 (2592.99MHz),<br>529998 (2649.99MHz) | 80MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 217 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 508200 to 528996  | 508200 (2541.00MHz),<br>518598 (2592.99MHz),<br>528996 (2644.98MHz) | 90MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 245 RB / 0 RB Offset                                                                                                                                                  |
|                    |                            | 509202 to 528000  | 509202 (2546.01MHz),<br>518598 (2592.99MHz),<br>528000 (2640.00MHz) | 100MHz            | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 273 RB / 0 RB Offset                                                                                                                                                  |

| EUT Configure Mode | Test item             | Available channel | Tested channel                                                      | Channel Bandwidth | Modulation                                            | Mode                                                               |
|--------------------|-----------------------|-------------------|---------------------------------------------------------------------|-------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| -                  | Emission Mask         | 500202 to 537000  | 500202 (2501.01MHz),<br>518598 (2592.99MHz),<br>537000 (2685.00MHz) | 10MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 23 RB Offset<br>24 RB / 0 RB Offset   |
|                    |                       | 500700 to 536496  | 500700 (2503.50MHz),<br>518598 (2592.99MHz),<br>536496 (2682.48MHz) | 15MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 37 RB Offset<br>38 RB / 0 RB Offset   |
|                    |                       | 501204 to 535998  | 501204 (2506.02MHz),<br>518598 (2592.99MHz),<br>535998 (2679.99MHz) | 20MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 50 RB Offset<br>51 RB / 0 RB Offset   |
|                    |                       | 503202 to 534000  | 503202 (2516.01MHz),<br>518598 (2592.99MHz),<br>534000 (2670.00MHz) | 40MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 105 RB Offset<br>106 RB / 0 RB Offset |
|                    |                       | 504204 to 532998  | 504204 (2521.02MHz),<br>518598 (2592.99MHz),<br>532998 (2664.99MHz) | 50MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 132 RB Offset<br>133 RB / 0 RB Offset |
|                    |                       | 505200 to 531996  | 505200 (2526.00MHz),<br>518598 (2592.99MHz),<br>531996 (2659.98MHz) | 60MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 161 RB Offset<br>162 RB / 0 RB Offset |
|                    |                       | 507204 to 529998  | 507204 (2536.02MHz),<br>518598 (2592.99MHz),<br>529998 (2649.99MHz) | 80MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 216 RB Offset<br>217 RB / 0 RB Offset |
|                    |                       | 508200 to 528996  | 508200 (2541.00MHz),<br>518598 (2592.99MHz),<br>528996 (2644.98MHz) | 90MHz             | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 244 RB Offset<br>245 RB / 0 RB Offset |
|                    |                       | 509202 to 528000  | 509202 (2546.01MHz),<br>518598 (2592.99MHz),<br>528000 (2640.00MHz) | 100MHz            | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset<br>1 RB / 272 RB Offset<br>273 RB / 0 RB Offset |
| -                  | Peak to Average Ratio | 500202 to 537000  | 500202 (2501.01MHz),<br>518598 (2592.99MHz),<br>537000 (2685.00MHz) | 10MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 500700 to 536496  | 500700 (2503.50MHz),<br>518598 (2592.99MHz),<br>536496 (2682.48MHz) | 15MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 501204 to 535998  | 501204 (2506.02MHz),<br>518598 (2592.99MHz),<br>535998 (2679.99MHz) | 20MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 503202 to 534000  | 503202 (2516.01MHz),<br>518598 (2592.99MHz),<br>534000 (2670.00MHz) | 40MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 504204 to 532998  | 504204 (2521.02MHz),<br>518598 (2592.99MHz),<br>532998 (2664.99MHz) | 50MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 505200 to 531996  | 505200 (2526.00MHz),<br>518598 (2592.99MHz),<br>531996 (2659.98MHz) | 60MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 507204 to 529998  | 507204 (2536.02MHz),<br>518598 (2592.99MHz),<br>529998 (2649.99MHz) | 80MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 508200 to 528996  | 508200 (2541.00MHz),<br>518598 (2592.99MHz),<br>528996 (2644.98MHz) | 90MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |
|                    |                       | 509202 to 528000  | 509202 (2546.01MHz),<br>518598 (2592.99MHz),<br>528000 (2640.00MHz) | 100MHz            | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset                                                 |

| EUT Configure Mode | Test item                    | Available channel | Tested channel                                                      | Channel Bandwidth | Modulation                                            | Mode               |
|--------------------|------------------------------|-------------------|---------------------------------------------------------------------|-------------------|-------------------------------------------------------|--------------------|
| -                  | Conducted Emission           | 500202 to 537000  | 500202 (2501.01MHz),<br>518598 (2592.99MHz),<br>537000 (2685.00MHz) | 10MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 500700 to 536496  | 500700 (2503.50MHz),<br>518598 (2592.99MHz),<br>536496 (2682.48MHz) | 15MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 501204 to 535998  | 501204 (2506.02MHz),<br>518598 (2592.99MHz),<br>535998 (2679.99MHz) | 20MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 503202 to 534000  | 503202 (2516.01MHz),<br>518598 (2592.99MHz),<br>534000 (2670.00MHz) | 40MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 504204 to 532998  | 504204 (2521.02MHz),<br>518598 (2592.99MHz),<br>532998 (2664.99MHz) | 50MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 505200 to 531996  | 505200 (2526.00MHz),<br>518598 (2592.99MHz),<br>531996 (2659.98MHz) | 60MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 507204 to 529998  | 507204 (2536.02MHz),<br>518598 (2592.99MHz),<br>529998 (2649.99MHz) | 80MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 508200 to 528996  | 508200 (2541.00MHz),<br>518598 (2592.99MHz),<br>528996 (2644.98MHz) | 90MHz             | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
|                    |                              | 509202 to 528000  | 509202 (2546.01MHz),<br>518598 (2592.99MHz),<br>528000 (2640.00MHz) | 100MHz            | $\pi/2$ BPSK /<br>QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset |
| -                  | Radiated Emission Below 1GHz | 509202 to 528000  | 518598 (2592.99MHz)                                                 | 100MHz            | $\pi/2$ BPSK                                          | 1 RB / 0 RB Offset |

| EUT Configure Mode | Test item                    | Available channel | Tested channel                                                      | Channel Bandwidth | Modulation   | Mode               |
|--------------------|------------------------------|-------------------|---------------------------------------------------------------------|-------------------|--------------|--------------------|
| -                  | Radiated Emission Above 1GHz | 500202 to 537000  | 500202 (2501.01MHz),<br>518598 (2592.99MHz),<br>537000 (2685.00MHz) | 10MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 500700 to 536496  | 500700 (2503.50MHz),<br>518598 (2592.99MHz),<br>536496 (2682.48MHz) | 15MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 501204 to 535998  | 501204 (2506.02MHz),<br>518598 (2592.99MHz),<br>535998 (2679.99MHz) | 20MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 503202 to 534000  | 503202 (2516.01MHz),<br>518598 (2592.99MHz),<br>534000 (2670.00MHz) | 40MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 504204 to 532998  | 504204 (2521.02MHz),<br>518598 (2592.99MHz),<br>532998 (2664.99MHz) | 50MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 505200 to 531996  | 505200 (2526.00MHz),<br>518598 (2592.99MHz),<br>531996 (2659.98MHz) | 60MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 507204 to 529998  | 507204 (2536.02MHz),<br>518598 (2592.99MHz),<br>529998 (2649.99MHz) | 80MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 508200 to 528996  | 508200 (2541.00MHz),<br>518598 (2592.99MHz),<br>528996 (2644.98MHz) | 90MHz             | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|                    |                              | 509202 to 528000  | 509202 (2546.01MHz),<br>518598 (2592.99MHz),<br>528000 (2640.00MHz) | 100MHz            | $\pi/2$ BPSK | 1 RB / 0 RB Offset |

Note: The conducted output power for  $\pi/2$  BPSK, QPSK, 16QAM, 64QAM and 256QAM, measured value of  $\pi/2$  BPSK is higher than QPSK, 16QAM, 64QAM and 256QAM mode. Therefore, only EIRP, Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under  $\pi/2$  BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under  $\pi/2$  BPSK mode only.

# LTE Band 26 (Part 22)

| EUT Configure Mode | Test item           | Available channel | Tested channel                                             | Channel Bandwidth | Modulation                          | Mode                                                                                                                                                           |
|--------------------|---------------------|-------------------|------------------------------------------------------------|-------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -                  | ERP                 | 26797 to 27033    | 26797 (824.7MHz),<br>26915 (836.5MHz),<br>27033 (848.3MHz) | 1.4MHz            | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 2 RB Offset<br>1 RB / 5 RB Offset<br>3 RB / 0 RB Offset<br>3 RB / 1 RB Offset<br>3 RB / 3 RB Offset<br>6 RB / 0 RB Offset         |
|                    |                     | 26805 to 27025    | 26805 (825.5MHz),<br>26915 (836.5MHz),<br>27025 (847.5MHz) | 3MHz              | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 7 RB Offset<br>1 RB / 14 RB Offset<br>8 RB / 0 RB Offset<br>8 RB / 3 RB Offset<br>8 RB / 7 RB Offset<br>15 RB / 0 RB Offset       |
|                    |                     | 26815 to 27015    | 26815 (826.5MHz),<br>26915 (836.5MHz),<br>27015 (846.5MHz) | 5MHz              | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 12 RB Offset<br>1 RB / 24 RB Offset<br>12 RB / 0 RB Offset<br>12 RB / 6 RB Offset<br>12 RB / 13 RB Offset<br>25 RB / 0 RB Offset  |
|                    |                     | 26840 to 26990    | 26840 (829MHz),<br>26915 (836.5MHz),<br>26990 (844MHz)     | 10MHz             | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 24 RB Offset<br>1 RB / 49 RB Offset<br>25 RB / 0 RB Offset<br>25 RB / 12 RB Offset<br>25 RB / 25 RB Offset<br>50 RB / 0 RB Offset |
|                    |                     | 26865 to 26965    | 26865 (831.5MHz),<br>26915 (836.5MHz),<br>26965 (841.5MHz) | 15MHz             | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 37 RB Offset<br>1 RB / 74 RB Offset<br>36 RB / 0 RB Offset<br>36 RB / 19 RB Offset<br>36 RB / 39 RB Offset<br>75 RB / 0 RB Offset |
| -                  | Frequency Stability | 26797 to 27033    | 26797 (824.7MHz),<br>27033 (848.3MHz)                      | 1.4MHz            | QPSK                                | 6 RB / 0 RB Offset                                                                                                                                             |
|                    |                     | 26805 to 27025    | 26805 (825.5MHz),<br>27025 (847.5MHz)                      | 3MHz              | QPSK                                | 15 RB / 0 RB Offset                                                                                                                                            |
|                    |                     | 26815 to 27015    | 26815 (826.5MHz),<br>27015 (846.5MHz)                      | 5MHz              | QPSK                                | 25 RB / 0 RB Offset                                                                                                                                            |
|                    |                     | 26840 to 26990    | 26840 (829MHz),<br>26990 (844MHz)                          | 10MHz             | QPSK                                | 50 RB / 0 RB Offset                                                                                                                                            |
|                    |                     | 26865 to 26965    | 26865 (831.5MHz),<br>26965 (841.5MHz)                      | 15MHz             | QPSK                                | 75 RB / 0 RB Offset                                                                                                                                            |
| -                  | Occupied Bandwidth  | 26797 to 27033    | 26797 (824.7MHz),<br>26915 (836.5MHz),<br>27033 (848.3MHz) | 1.4MHz            | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 6 RB / 0 RB Offset                                                                                                                                             |
|                    |                     | 26805 to 27025    | 26805 (825.5MHz),<br>26915 (836.5MHz),<br>27025 (847.5MHz) | 3MHz              | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 15 RB / 0 RB Offset                                                                                                                                            |
|                    |                     | 26815 to 27015    | 26815 (826.5MHz),<br>26915 (836.5MHz),<br>27015 (846.5MHz) | 5MHz              | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 25 RB / 0 RB Offset                                                                                                                                            |
|                    |                     | 26840 to 26990    | 26840 (829MHz),<br>26915 (836.5MHz),<br>26990 (844MHz)     | 10MHz             | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 50 RB / 0 RB Offset                                                                                                                                            |
|                    |                     | 26865 to 26965    | 26865 (831.5MHz),<br>26915 (836.5MHz),<br>26965 (841.5MHz) | 15MHz             | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 75 RB / 0 RB Offset                                                                                                                                            |

| EUT Configure Mode | Test item                    | Available channel | Tested channel                                             | Channel Bandwidth | Modulation                          | Mode                                                             |
|--------------------|------------------------------|-------------------|------------------------------------------------------------|-------------------|-------------------------------------|------------------------------------------------------------------|
| -                  | Band Edge                    | 26797 to 27033    | 26797 (824.7MHz),<br>27033 (848.3MHz)                      | 1.4MHz            | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 5 RB Offset<br>6 RB / 0 RB Offset   |
|                    |                              | 26805 to 27025    | 26805 (825.5MHz),<br>27025 (847.5MHz)                      | 3MHz              | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 14 RB Offset<br>15 RB / 0 RB Offset |
|                    |                              | 26815 to 27015    | 26815 (826.5MHz),<br>27015 (846.5MHz)                      | 5MHz              | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 24 RB Offset<br>25 RB / 0 RB Offset |
|                    |                              | 26840 to 26990    | 26840 (829MHz),<br>26990 (844MHz)                          | 10MHz             | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 49 RB Offset<br>50 RB / 0 RB Offset |
|                    |                              | 26865 to 26965    | 26865 (831.5MHz),<br>26965 (841.5MHz)                      | 15MHz             | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 74 RB Offset<br>75 RB / 0 RB Offset |
| -                  | Peak to Average Ratio        | 26797 to 27033    | 26797 (824.7MHz),<br>26915 (836.5MHz),<br>27033 (848.3MHz) | 1.4MHz            | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset                                               |
|                    |                              | 26805 to 27025    | 26805 (825.5MHz),<br>26915 (836.5MHz),<br>27025 (847.5MHz) | 3MHz              | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset                                               |
|                    |                              | 26815 to 27015    | 26815 (826.5MHz),<br>26915 (836.5MHz),<br>27015 (846.5MHz) | 5MHz              | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset                                               |
|                    |                              | 26840 to 26990    | 26840 (829MHz),<br>26915 (836.5MHz),<br>26990 (844MHz)     | 10MHz             | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset                                               |
|                    |                              | 26865 to 26965    | 26865 (831.5MHz),<br>26915 (836.5MHz),<br>26965 (841.5MHz) | 15MHz             | QPSK / 16QAM<br>/ 64QAM /<br>256QAM | 1 RB / 0 RB Offset                                               |
| -                  | Conducted Emission           | 26797 to 27033    | 26797 (824.7MHz),<br>26915 (836.5MHz),<br>27033 (848.3MHz) | 1.4MHz            | QPSK                                | 1 RB / 0 RB Offset                                               |
|                    |                              | 26805 to 27025    | 26805 (825.5MHz),<br>26915 (836.5MHz),<br>27025 (847.5MHz) | 3MHz              | QPSK                                | 1 RB / 0 RB Offset                                               |
|                    |                              | 26815 to 27015    | 26815 (826.5MHz),<br>26915 (836.5MHz),<br>27015 (846.5MHz) | 5MHz              | QPSK                                | 1 RB / 0 RB Offset                                               |
|                    |                              | 26840 to 26990    | 26840 (829MHz),<br>26915 (836.5MHz),<br>26990 (844MHz)     | 10MHz             | QPSK                                | 1 RB / 0 RB Offset                                               |
|                    |                              | 26865 to 26965    | 26865 (831.5MHz),<br>26915 (836.5MHz),<br>26965 (841.5MHz) | 15MHz             | QPSK                                | 1 RB / 0 RB Offset                                               |
| -                  | Radiated Emission Below 1GHz | 26865 to 26965    | 26865 (831.5MHz)                                           | 15MHz             | QPSK                                | 1 RB / 0 RB Offset                                               |
| -                  | Radiated Emission Above 1GHz | 26797 to 27033    | 26797 (824.7MHz),<br>26915 (836.5MHz),<br>27033 (848.3MHz) | 1.4MHz            | QPSK                                | 1 RB / 0 RB Offset                                               |
|                    |                              | 26815 to 27015    | 26815 (826.5MHz),<br>26915 (836.5MHz),<br>27015 (846.5MHz) | 5MHz              | QPSK                                | 1 RB / 0 RB Offset                                               |
|                    |                              | 26865 to 26965    | 26865 (831.5MHz),<br>26915 (836.5MHz),<br>26965 (841.5MHz) | 15MHz             | QPSK                                | 1 RB / 0 RB Offset                                               |

Note: The conducted output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only ERP, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under QPSK mode only.

# LTE Band 26 (Part 90)

| EUT<br>Configure<br>Mode | Test item              | Available channel | Tested channel                                             | Channel<br>Bandwidth | Modulation                          | Mode                                                                                                                                                           |
|--------------------------|------------------------|-------------------|------------------------------------------------------------|----------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -                        | ERP                    | 26697 to 26783    | 26697 (814.7MHz),<br>26740 (819.0MHz),<br>26783 (823.3MHz) | 1.4MHz               | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 2 RB Offset<br>1 RB / 5 RB Offset<br>3 RB / 0 RB Offset<br>3 RB / 1 RB Offset<br>3 RB / 3 RB Offset<br>6 RB / 0 RB Offset         |
|                          |                        | 26705 to 26775    | 26705 (815.5MHz),<br>26740 (819.0MHz),<br>26775 (822.5MHz) | 3MHz                 | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 7 RB Offset<br>1 RB / 14 RB Offset<br>8 RB / 0 RB Offset<br>8 RB / 3 RB Offset<br>8 RB / 7 RB Offset<br>15 RB / 0 RB Offset       |
|                          |                        | 26715 to 26765    | 26715 (816.5MHz),<br>26740 (819.0MHz),<br>26765 (821.5MHz) | 5MHz                 | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 12 RB Offset<br>1 RB / 24 RB Offset<br>12 RB / 0 RB Offset<br>12 RB / 6 RB Offset<br>12 RB / 13 RB Offset<br>25 RB / 0 RB Offset  |
|                          |                        | 26740             | 26740 (819.0MHz)                                           | 10MHz                | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 24 RB Offset<br>1 RB / 49 RB Offset<br>25 RB / 0 RB Offset<br>25 RB / 12 RB Offset<br>25 RB / 25 RB Offset<br>50 RB / 0 RB Offset |
| -                        | Frequency<br>Stability | 26697 to 26783    | 26697 (814.7MHz),<br>26783 (823.3MHz)                      | 1.4MHz               | QPSK                                | 6 RB / 0 RB Offset                                                                                                                                             |
|                          |                        | 26705 to 26775    | 26705 (815.5MHz),<br>26775 (822.5MHz)                      | 3MHz                 | QPSK                                | 15 RB / 0 RB Offset                                                                                                                                            |
|                          |                        | 26715 to 26765    | 26715 (816.5MHz),<br>26765 (821.5MHz)                      | 5MHz                 | QPSK                                | 25 RB / 0 RB Offset                                                                                                                                            |
|                          |                        | 26740             | 26740 (819.0MHz)                                           | 10MHz                | QPSK                                | 50 RB / 0 RB Offset                                                                                                                                            |
| -                        | Occupied<br>Bandwidth  | 26697 to 26783    | 26697 (814.7MHz),<br>26740 (819.0MHz),<br>26783 (823.3MHz) | 1.4MHz               | QPSK / 16QAM /<br>64QAM /<br>256QAM | 6 RB / 0 RB Offset                                                                                                                                             |
|                          |                        | 26705 to 26775    | 26705 (815.5MHz),<br>26740 (819.0MHz),<br>26775 (822.5MHz) | 3MHz                 | QPSK / 16QAM /<br>64QAM /<br>256QAM | 15 RB / 0 RB Offset                                                                                                                                            |
|                          |                        | 26715 to 26765    | 26715 (816.5MHz),<br>26740 (819.0MHz),<br>26765 (821.5MHz) | 5MHz                 | QPSK / 16QAM /<br>64QAM /<br>256QAM | 25 RB / 0 RB Offset                                                                                                                                            |
|                          |                        | 26740             | 26740 (819.0MHz)                                           | 10MHz                | QPSK / 16QAM /<br>64QAM /<br>256QAM | 50 RB / 0 RB Offset                                                                                                                                            |
| -                        | Emission Masks         | 26697 to 26783    | 26697 (814.7MHz),<br>26740 (819.0MHz),<br>26783 (823.3MHz) | 1.4MHz               | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>6 RB / 0 RB Offset                                                                                                                       |
|                          |                        | 26705 to 26775    | 26705 (815.5MHz),<br>26740 (819.0MHz),<br>26775 (822.5MHz) | 3MHz                 | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>15 RB / 0 RB Offset                                                                                                                      |
|                          |                        | 26715 to 26765    | 26715 (816.5MHz),<br>26740 (819.0MHz),<br>26765 (821.5MHz) | 5MHz                 | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>25 RB / 0 RB Offset                                                                                                                      |
|                          |                        | 26740             | 26740 (819.0MHz)                                           | 10MHz                | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>50 RB / 0 RB Offset                                                                                                                      |

| EUT Configure Mode | Test item                    | Available channel | Tested channel                                             | Channel Bandwidth | Modulation | Mode               |
|--------------------|------------------------------|-------------------|------------------------------------------------------------|-------------------|------------|--------------------|
| -                  | Conducted Emission           | 26697 to 26783    | 26697 (814.7MHz),<br>26740 (819.0MHz),<br>26783 (823.3MHz) | 1.4MHz            | QPSK       | 1 RB / 0 RB Offset |
|                    |                              | 26705 to 26775    | 26705 (815.5MHz),<br>26740 (819.0MHz),<br>26775 (822.5MHz) | 3MHz              | QPSK       | 1 RB / 0 RB Offset |
|                    |                              | 26715 to 26765    | 26715 (816.5MHz),<br>26740 (819.0MHz),<br>26765 (821.5MHz) | 5MHz              | QPSK       | 1 RB / 0 RB Offset |
|                    |                              | 26740             | 26740 (819.0MHz)                                           | 10MHz             | QPSK       | 1 RB / 0 RB Offset |
| -                  | Radiated Emission Above 1GHz | 26697 to 26783    | 26697 (814.7MHz),<br>26740 (819.0MHz),<br>26783 (823.3MHz) | 1.4MHz            | QPSK       | 1 RB / 0 RB Offset |
|                    |                              | 26715 to 26765    | 26715 (816.5MHz),<br>26740 (819.0MHz),<br>26765 (821.5MHz) | 5MHz              | QPSK       | 1 RB / 0 RB Offset |
|                    |                              | 26740             | 26740 (819.0MHz)                                           | 10MHz             | QPSK       | 1 RB / 0 RB Offset |

Note: The conducted output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore, only ERP, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under QPSK mode only.

#### Test Condition:

| Test Item                  | Environmental Conditions | Input Power (System) | Tested By   |
|----------------------------|--------------------------|----------------------|-------------|
| ERP / EIRP                 | 25deg. C, 70%RH          | 4.2Vdc               | James Yang  |
| Modulation characteristics | 25deg. C, 70%RH          | 4.2Vdc               | James Yang  |
| Frequency Stability        | 24deg. C, 64%RH          | 4.2Vdc               | James Yang  |
| Occupied Bandwidth         | 24deg. C, 64%RH          | 4.2Vdc               | James Yang  |
| Band Edge                  | 24deg. C, 64%RH          | 4.2Vdc               | James Yang  |
| Peak To Average Ratio      | 24deg. C, 64%RH          | 4.2Vdc               | James Yang  |
| Conducted Emission         | 24deg. C, 64%RH          | 4.2Vdc               | James Yang  |
| Radiated Emission          | 22deg. C, 66%RH          | 120Vac, 60Hz         | Jones Chang |

### **3.4 EUT Operating Conditions**

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

### **3.5 General Description of Applied Standards and References**

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and References:

#### **Test Standard:**

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 22**

**FCC 47 CFR Part 27**

**FCC 47 CFR Part 90**

**ANSI/TIA/EIA-603-D-2010**

**ANSI/TIA/EIA-603-E 2016**

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

#### **References Test Guidance:**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**KDB 971168 D02 Misc Rev Approv License Devices v02r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

For n41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For LTE Band 26 (Part 22):

Mobile / Portable station are limited to 7 watts e.r.p.

For LTE Band 26 (Part 90):

Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP. Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

#### 4.1.2 Test Procedures

##### Conducted Power Measurement:

1. Connect the DUT transmitter output to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Set span to at least 1.5 times the OBW.
3. Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
4. Set VBW  $\geq 3 \times$  RBW.
5. Set number of points in sweep  $\geq 2 \times$  span / RBW.
6. Sweep time = auto-couple.
7. Detector = RMS (power averaging).
8. If the EUT can be configured to transmit continuously (i.e., burst duty cycle  $\geq 98\%$ ), then set the trigger to free run.
9. If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle  $< 98\%$ ), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
10. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
11. Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

##### Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as  $P_{\text{Meas}}$ , e.g., dBm or dBW)

$P_{\text{Meas}}$  measured transmitter output power or PSD, in dBm or dBW

$G_T$  gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

#### 4.1.3 Test Setup

Conducted Power Measurement:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.4 Test Results

##### Conducted Output Power (dBm)

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |        |
|----------------------------|-----------|-----------------|-----------|---------|---------|--------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High   |
|                            |           | Channel         |           | 509202  | 518598  | 528000 |
|                            |           | Frequency (MHz) |           | 2546.01 | 2592.99 | 2640   |
| 100M                       | pi/2 BPSK | 1               | 0         | 23.77   | 23.61   | 23.79  |
|                            |           | 1               | 136       | 23.46   | 23.50   | 23.42  |
|                            |           | 1               | 272       | 23.10   | 23.20   | 23.03  |
|                            |           | 136             | 0         | 23.80   | 23.69   | 23.62  |
|                            |           | 136             | 68        | 23.70   | 23.75   | 23.80  |
|                            |           | 136             | 136       | 23.57   | 23.60   | 23.49  |
|                            |           | 273             | 0         | 23.63   | 23.66   | 23.67  |
|                            | QPSK      | 1               | 0         | 20.72   | 20.79   | 20.74  |
|                            |           | 1               | 136       | 20.49   | 20.55   | 20.50  |
|                            |           | 1               | 272       | 20.16   | 20.16   | 20.00  |
|                            |           | 136             | 0         | 20.67   | 20.77   | 20.69  |
|                            |           | 136             | 68        | 20.69   | 20.74   | 20.64  |
|                            |           | 136             | 136       | 20.50   | 20.53   | 20.56  |
|                            |           | 273             | 0         | 20.63   | 20.56   | 20.66  |
|                            | 16QAM     | 1               | 0         | 20.43   | 20.33   | 20.31  |
|                            |           | 1               | 136       | 20.14   | 20.12   | 20.21  |
|                            |           | 1               | 272       | 19.78   | 19.70   | 19.89  |
|                            |           | 136             | 0         | 20.44   | 20.38   | 20.48  |
|                            |           | 136             | 68        | 20.30   | 20.44   | 20.39  |
|                            |           | 136             | 136       | 20.28   | 20.30   | 20.13  |
|                            |           | 273             | 0         | 20.40   | 20.31   | 20.37  |
|                            | 64QAM     | 1               | 0         | 19.94   | 20.05   | 19.90  |
|                            |           | 1               | 136       | 19.76   | 19.75   | 19.72  |
|                            |           | 1               | 272       | 19.40   | 19.48   | 19.32  |
|                            |           | 136             | 0         | 20.08   | 20.10   | 20.00  |
|                            |           | 136             | 68        | 20.01   | 20.07   | 20.01  |
|                            |           | 136             | 136       | 19.82   | 19.76   | 19.78  |
|                            |           | 273             | 0         | 19.99   | 19.84   | 19.89  |
|                            | 256QAM    | 1               | 0         | 17.48   | 17.35   | 17.34  |
|                            |           | 1               | 136       | 17.12   | 17.11   | 17.24  |
|                            |           | 1               | 272       | 16.83   | 16.81   | 16.85  |
|                            |           | 136             | 0         | 17.38   | 17.31   | 17.39  |
|                            |           | 136             | 68        | 17.32   | 17.34   | 17.32  |
|                            |           | 136             | 136       | 17.18   | 17.28   | 17.15  |
|                            |           | 273             | 0         | 17.37   | 17.31   | 17.35  |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |        |         |         |
|----------------------------|-----------|-----------------|-----------|--------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low    | Mid     | High    |
|                            |           | Channel         |           | 508200 | 518598  | 528996  |
|                            |           | Frequency (MHz) |           | 2541   | 2592.99 | 2644.98 |
| 90M                        | pi/2 BPSK | 1               | 0         | 23.78  | 23.66   | 23.62   |
|                            |           | 1               | 122       | 23.57  | 23.59   | 23.53   |
|                            |           | 1               | 244       | 23.07  | 23.10   | 23.07   |
|                            |           | 122             | 0         | 23.74  | 23.66   | 23.74   |
|                            |           | 122             | 61        | 23.77  | 23.77   | 23.66   |
|                            |           | 122             | 122       | 23.46  | 23.54   | 23.47   |
|                            |           | 245             | 0         | 23.65  | 23.58   | 23.58   |
|                            | QPSK      | 1               | 0         | 20.72  | 20.66   | 20.69   |
|                            |           | 1               | 122       | 20.41  | 20.40   | 20.53   |
|                            |           | 1               | 244       | 20.19  | 20.08   | 20.04   |
|                            |           | 122             | 0         | 20.60  | 20.78   | 20.76   |
|                            |           | 122             | 61        | 20.68  | 20.68   | 20.65   |
|                            |           | 122             | 122       | 20.53  | 20.41   | 20.56   |
|                            |           | 245             | 0         | 20.57  | 20.58   | 20.68   |
|                            | 16QAM     | 1               | 0         | 20.35  | 20.44   | 20.48   |
|                            |           | 1               | 122       | 20.20  | 20.21   | 20.28   |
|                            |           | 1               | 244       | 19.75  | 19.89   | 19.89   |
|                            |           | 122             | 0         | 20.47  | 20.43   | 20.38   |
|                            |           | 122             | 61        | 20.34  | 20.50   | 20.32   |
|                            |           | 122             | 122       | 20.18  | 20.21   | 20.23   |
|                            |           | 245             | 0         | 20.25  | 20.20   | 20.21   |
|                            | 64QAM     | 1               | 0         | 20.09  | 19.94   | 20.06   |
|                            |           | 1               | 122       | 19.88  | 19.74   | 19.85   |
|                            |           | 1               | 244       | 19.45  | 19.50   | 19.39   |
|                            |           | 122             | 0         | 20.05  | 20.07   | 19.99   |
|                            |           | 122             | 61        | 19.96  | 20.03   | 19.92   |
|                            |           | 122             | 122       | 19.81  | 19.78   | 19.73   |
|                            |           | 245             | 0         | 19.97  | 19.81   | 19.82   |
|                            | 256QAM    | 1               | 0         | 17.41  | 17.50   | 17.39   |
|                            |           | 1               | 122       | 17.25  | 17.19   | 17.14   |
|                            |           | 1               | 244       | 16.84  | 16.89   | 16.73   |
|                            |           | 122             | 0         | 17.35  | 17.31   | 17.34   |
|                            |           | 122             | 61        | 17.48  | 17.43   | 17.46   |
|                            |           | 122             | 122       | 17.22  | 17.17   | 17.25   |
|                            |           | 245             | 0         | 17.36  | 17.27   | 17.40   |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |         |
|----------------------------|-----------|-----------------|-----------|---------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High    |
|                            |           | Channel         |           | 507204  | 518598  | 529998  |
|                            |           | Frequency (MHz) |           | 2536.02 | 2592.99 | 2649.99 |
| 80M                        | pi/2 BPSK | 1               | 0         | 23.72   | 23.61   | 23.72   |
|                            |           | 1               | 108       | 23.57   | 23.55   | 23.51   |
|                            |           | 1               | 216       | 23.08   | 23.11   | 23.16   |
|                            |           | 108             | 0         | 23.72   | 23.80   | 23.72   |
|                            |           | 108             | 54        | 23.80   | 23.63   | 23.67   |
|                            |           | 108             | 108       | 23.56   | 23.48   | 23.59   |
|                            |           | 217             | 0         | 23.62   | 23.53   | 23.68   |
|                            | QPSK      | 1               | 0         | 20.73   | 20.80   | 20.64   |
|                            |           | 1               | 108       | 20.59   | 20.49   | 20.60   |
|                            |           | 1               | 216       | 20.13   | 20.01   | 20.11   |
|                            |           | 108             | 0         | 20.65   | 20.60   | 20.69   |
|                            |           | 108             | 54        | 20.71   | 20.80   | 20.73   |
|                            |           | 108             | 108       | 20.56   | 20.43   | 20.41   |
|                            |           | 217             | 0         | 20.50   | 20.60   | 20.56   |
|                            | 16QAM     | 1               | 0         | 20.42   | 20.42   | 20.32   |
|                            |           | 1               | 108       | 20.21   | 20.28   | 20.24   |
|                            |           | 1               | 216       | 19.83   | 19.88   | 19.88   |
|                            |           | 108             | 0         | 20.40   | 20.37   | 20.35   |
|                            |           | 108             | 54        | 20.49   | 20.46   | 20.34   |
|                            |           | 108             | 108       | 20.30   | 20.21   | 20.19   |
|                            |           | 217             | 0         | 20.22   | 20.38   | 20.34   |
|                            | 64QAM     | 1               | 0         | 19.93   | 20.06   | 20.01   |
|                            |           | 1               | 108       | 19.85   | 19.76   | 19.90   |
|                            |           | 1               | 216       | 19.48   | 19.47   | 19.50   |
|                            |           | 108             | 0         | 19.95   | 20.03   | 20.05   |
|                            |           | 108             | 54        | 19.91   | 20.02   | 20.06   |
|                            |           | 108             | 108       | 19.72   | 19.88   | 19.83   |
|                            |           | 217             | 0         | 19.83   | 19.80   | 19.92   |
|                            | 256QAM    | 1               | 0         | 17.49   | 17.44   | 17.45   |
|                            |           | 1               | 108       | 17.11   | 17.21   | 17.23   |
|                            |           | 1               | 216       | 16.84   | 16.88   | 16.88   |
|                            |           | 108             | 0         | 17.47   | 17.45   | 17.48   |
|                            |           | 108             | 54        | 17.35   | 17.41   | 17.39   |
|                            |           | 108             | 108       | 17.17   | 17.24   | 17.14   |
|                            |           | 217             | 0         | 17.35   | 17.38   | 17.22   |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |        |         |         |
|----------------------------|-----------|-----------------|-----------|--------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low    | Mid     | High    |
|                            |           | Channel         |           | 505200 | 518598  | 531996  |
|                            |           | Frequency (MHz) |           | 2526   | 2592.99 | 2659.98 |
| 60M                        | pi/2 BPSK | 1               | 0         | 23.78  | 23.63   | 23.78   |
|                            |           | 1               | 81        | 23.45  | 23.59   | 23.50   |
|                            |           | 1               | 161       | 23.11  | 23.02   | 23.01   |
|                            |           | 81              | 0         | 23.68  | 23.79   | 23.66   |
|                            |           | 81              | 40        | 23.67  | 23.60   | 23.68   |
|                            |           | 81              | 81        | 23.56  | 23.50   | 23.49   |
|                            |           | 162             | 0         | 23.52  | 23.63   | 23.62   |
|                            | QPSK      | 1               | 0         | 20.69  | 20.79   | 20.67   |
|                            |           | 1               | 81        | 20.59  | 20.49   | 20.42   |
|                            |           | 1               | 161       | 20.03  | 20.01   | 20.15   |
|                            |           | 81              | 0         | 20.63  | 20.60   | 20.79   |
|                            |           | 81              | 40        | 20.78  | 20.62   | 20.62   |
|                            |           | 81              | 81        | 20.53  | 20.44   | 20.42   |
|                            |           | 162             | 0         | 20.63  | 20.58   | 20.65   |
|                            | 16QAM     | 1               | 0         | 20.43  | 20.45   | 20.49   |
|                            |           | 1               | 81        | 20.14  | 20.12   | 20.23   |
|                            |           | 1               | 161       | 19.83  | 19.75   | 19.87   |
|                            |           | 81              | 0         | 20.32  | 20.34   | 20.47   |
|                            |           | 81              | 40        | 20.43  | 20.45   | 20.44   |
|                            |           | 81              | 81        | 20.20  | 20.13   | 20.24   |
|                            |           | 162             | 0         | 20.22  | 20.40   | 20.24   |
|                            | 64QAM     | 1               | 0         | 20.02  | 19.90   | 19.94   |
|                            |           | 1               | 81        | 19.71  | 19.79   | 19.89   |
|                            |           | 1               | 161       | 19.42  | 19.35   | 19.47   |
|                            |           | 81              | 0         | 19.94  | 19.95   | 19.94   |
|                            |           | 81              | 40        | 20.00  | 20.10   | 19.90   |
|                            |           | 81              | 81        | 19.73  | 19.70   | 19.70   |
|                            |           | 162             | 0         | 19.80  | 19.94   | 19.86   |
|                            | 256QAM    | 1               | 0         | 17.48  | 17.50   | 17.31   |
|                            |           | 1               | 81        | 17.25  | 17.15   | 17.24   |
|                            |           | 1               | 161       | 16.76  | 16.80   | 16.85   |
|                            |           | 81              | 0         | 17.38  | 17.44   | 17.31   |
|                            |           | 81              | 40        | 17.43  | 17.37   | 17.34   |
|                            |           | 81              | 81        | 17.22  | 17.30   | 17.10   |
|                            |           | 162             | 0         | 17.34  | 17.39   | 17.25   |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |         |
|----------------------------|-----------|-----------------|-----------|---------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High    |
|                            |           | Channel         |           | 504204  | 518598  | 532998  |
|                            |           | Frequency (MHz) |           | 2521.02 | 2592.99 | 2664.99 |
| 50M                        | pi/2 BPSK | 1               | 0         | 23.68   | 23.60   | 23.71   |
|                            |           | 1               | 66        | 23.59   | 23.48   | 23.40   |
|                            |           | 1               | 132       | 23.20   | 23.08   | 23.14   |
|                            |           | 66              | 0         | 23.79   | 23.62   | 23.63   |
|                            |           | 66              | 33        | 23.60   | 23.71   | 23.60   |
|                            |           | 66              | 66        | 23.46   | 23.59   | 23.54   |
|                            |           | 133             | 0         | 23.51   | 23.61   | 23.55   |
|                            | QPSK      | 1               | 0         | 20.75   | 20.80   | 20.64   |
|                            |           | 1               | 66        | 20.42   | 20.41   | 20.45   |
|                            |           | 1               | 132       | 20.12   | 20.12   | 20.20   |
|                            |           | 66              | 0         | 20.62   | 20.75   | 20.75   |
|                            |           | 66              | 33        | 20.61   | 20.73   | 20.68   |
|                            |           | 66              | 66        | 20.52   | 20.59   | 20.47   |
|                            |           | 133             | 0         | 20.67   | 20.63   | 20.58   |
|                            | 16QAM     | 1               | 0         | 20.30   | 20.35   | 20.45   |
|                            |           | 1               | 66        | 20.11   | 20.26   | 20.13   |
|                            |           | 1               | 132       | 19.70   | 19.90   | 19.80   |
|                            |           | 66              | 0         | 20.46   | 20.47   | 20.46   |
|                            |           | 66              | 33        | 20.45   | 20.33   | 20.31   |
|                            |           | 66              | 66        | 20.18   | 20.11   | 20.23   |
|                            |           | 133             | 0         | 20.37   | 20.24   | 20.35   |
|                            | 64QAM     | 1               | 0         | 19.93   | 20.00   | 20.05   |
|                            |           | 1               | 66        | 19.89   | 19.76   | 19.73   |
|                            |           | 1               | 132       | 19.47   | 19.44   | 19.30   |
|                            |           | 66              | 0         | 20.05   | 19.94   | 20.01   |
|                            |           | 66              | 33        | 19.99   | 20.06   | 20.04   |
|                            |           | 66              | 66        | 19.86   | 19.71   | 19.72   |
|                            |           | 133             | 0         | 19.88   | 19.84   | 19.88   |
|                            | 256QAM    | 1               | 0         | 17.36   | 17.41   | 17.41   |
|                            |           | 1               | 66        | 17.16   | 17.12   | 17.10   |
|                            |           | 1               | 132       | 16.71   | 16.82   | 16.74   |
|                            |           | 66              | 0         | 17.37   | 17.44   | 17.32   |
|                            |           | 66              | 33        | 17.46   | 17.42   | 17.32   |
|                            |           | 66              | 66        | 17.10   | 17.15   | 17.13   |
|                            |           | 133             | 0         | 17.31   | 17.37   | 17.38   |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |        |
|----------------------------|-----------|-----------------|-----------|---------|---------|--------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High   |
|                            |           | Channel         |           | 503202  | 518598  | 534000 |
|                            |           | Frequency (MHz) |           | 2516.01 | 2592.99 | 2670   |
| 40M                        | pi/2 BPSK | 1               | 0         | 23.74   | 23.71   | 23.76  |
|                            |           | 1               | 53        | 23.44   | 23.43   | 23.41  |
|                            |           | 1               | 105       | 23.13   | 23.19   | 23.12  |
|                            |           | 53              | 0         | 23.64   | 23.60   | 23.79  |
|                            |           | 53              | 26        | 23.63   | 23.80   | 23.60  |
|                            |           | 53              | 53        | 23.47   | 23.43   | 23.42  |
|                            |           | 106             | 0         | 23.65   | 23.53   | 23.63  |
|                            | QPSK      | 1               | 0         | 20.60   | 20.69   | 20.77  |
|                            |           | 1               | 53        | 20.55   | 20.54   | 20.60  |
|                            |           | 1               | 105       | 20.04   | 20.06   | 20.16  |
|                            |           | 53              | 0         | 20.77   | 20.76   | 20.78  |
|                            |           | 53              | 26        | 20.74   | 20.65   | 20.78  |
|                            |           | 53              | 53        | 20.43   | 20.41   | 20.48  |
|                            |           | 106             | 0         | 20.63   | 20.55   | 20.51  |
|                            | 16QAM     | 1               | 0         | 20.38   | 20.39   | 20.42  |
|                            |           | 1               | 53        | 20.16   | 20.22   | 20.21  |
|                            |           | 1               | 105       | 19.84   | 19.78   | 19.74  |
|                            |           | 53              | 0         | 20.32   | 20.47   | 20.40  |
|                            |           | 53              | 26        | 20.42   | 20.39   | 20.37  |
|                            |           | 53              | 53        | 20.13   | 20.29   | 20.25  |
|                            |           | 106             | 0         | 20.22   | 20.31   | 20.27  |
|                            | 64QAM     | 1               | 0         | 20.09   | 19.90   | 19.90  |
|                            |           | 1               | 53        | 19.78   | 19.79   | 19.89  |
|                            |           | 1               | 105       | 19.45   | 19.47   | 19.44  |
|                            |           | 53              | 0         | 20.05   | 20.04   | 19.95  |
|                            |           | 53              | 26        | 19.94   | 19.90   | 20.04  |
|                            |           | 53              | 53        | 19.78   | 19.84   | 19.81  |
|                            |           | 106             | 0         | 19.98   | 19.82   | 19.86  |
|                            | 256QAM    | 1               | 0         | 17.46   | 17.33   | 17.37  |
|                            |           | 1               | 53        | 17.12   | 17.15   | 17.28  |
|                            |           | 1               | 105       | 16.70   | 16.70   | 16.90  |
|                            |           | 53              | 0         | 17.30   | 17.42   | 17.43  |
|                            |           | 53              | 26        | 17.33   | 17.44   | 17.42  |
|                            |           | 53              | 53        | 17.27   | 17.16   | 17.11  |
|                            |           | 106             | 0         | 17.36   | 17.25   | 17.33  |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |         |
|----------------------------|-----------|-----------------|-----------|---------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High    |
|                            |           | Channel         |           | 501204  | 518598  | 535998  |
|                            |           | Frequency (MHz) |           | 2506.02 | 2592.99 | 2679.99 |
| 20M                        | pi/2 BPSK | 1               | 0         | 23.80   | 23.80   | 23.67   |
|                            |           | 1               | 25        | 23.43   | 23.46   | 23.52   |
|                            |           | 1               | 50        | 23.00   | 23.03   | 23.04   |
|                            |           | 25              | 0         | 23.70   | 23.70   | 23.76   |
|                            |           | 25              | 12        | 23.67   | 23.78   | 23.64   |
|                            |           | 25              | 25        | 23.44   | 23.44   | 23.46   |
|                            |           | 51              | 0         | 23.70   | 23.54   | 23.62   |
|                            | QPSK      | 1               | 0         | 20.80   | 20.74   | 20.60   |
|                            |           | 1               | 25        | 20.54   | 20.44   | 20.55   |
|                            |           | 1               | 50        | 20.10   | 20.03   | 20.12   |
|                            |           | 25              | 0         | 20.61   | 20.73   | 20.65   |
|                            |           | 25              | 12        | 20.70   | 20.72   | 20.67   |
|                            |           | 25              | 25        | 20.44   | 20.60   | 20.48   |
|                            |           | 51              | 0         | 20.54   | 20.67   | 20.65   |
|                            | 16QAM     | 1               | 0         | 20.50   | 20.34   | 20.50   |
|                            |           | 1               | 25        | 20.24   | 20.22   | 20.12   |
|                            |           | 1               | 50        | 19.72   | 19.73   | 19.72   |
|                            |           | 25              | 0         | 20.43   | 20.36   | 20.33   |
|                            |           | 25              | 12        | 20.30   | 20.41   | 20.45   |
|                            |           | 25              | 25        | 20.30   | 20.16   | 20.29   |
|                            |           | 51              | 0         | 20.26   | 20.24   | 20.34   |
|                            | 64QAM     | 1               | 0         | 19.93   | 19.96   | 20.03   |
|                            |           | 1               | 25        | 19.72   | 19.87   | 19.87   |
|                            |           | 1               | 50        | 19.30   | 19.41   | 19.44   |
|                            |           | 25              | 0         | 19.92   | 19.95   | 19.91   |
|                            |           | 25              | 12        | 20.08   | 20.08   | 19.99   |
|                            |           | 25              | 25        | 19.72   | 19.78   | 19.81   |
|                            |           | 51              | 0         | 19.86   | 20.00   | 19.99   |
|                            | 256QAM    | 1               | 0         | 17.35   | 17.31   | 17.48   |
|                            |           | 1               | 25        | 17.16   | 17.26   | 17.29   |
|                            |           | 1               | 50        | 16.82   | 16.84   | 16.74   |
|                            |           | 25              | 0         | 17.49   | 17.32   | 17.44   |
|                            |           | 25              | 12        | 17.43   | 17.35   | 17.38   |
|                            |           | 25              | 25        | 17.25   | 17.19   | 17.27   |
|                            |           | 51              | 0         | 17.22   | 17.38   | 17.26   |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |        |         |         |
|----------------------------|-----------|-----------------|-----------|--------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low    | Mid     | High    |
|                            |           | Channel         |           | 500700 | 518598  | 536496  |
|                            |           | Frequency (MHz) |           | 2503.5 | 2592.99 | 2682.48 |
| 15M                        | pi/2 BPSK | 1               | 0         | 23.74  | 23.80   | 23.68   |
|                            |           | 1               | 19        | 23.51  | 23.57   | 23.53   |
|                            |           | 1               | 37        | 23.13  | 23.19   | 23.04   |
|                            |           | 19              | 0         | 23.62  | 23.60   | 23.67   |
|                            |           | 19              | 9         | 23.75  | 23.78   | 23.75   |
|                            |           | 19              | 20        | 23.56  | 23.44   | 23.57   |
|                            |           | 38              | 0         | 23.51  | 23.54   | 23.52   |
|                            | QPSK      | 1               | 0         | 20.60  | 20.78   | 20.61   |
|                            |           | 1               | 19        | 20.48  | 20.48   | 20.44   |
|                            |           | 1               | 37        | 20.17  | 20.14   | 20.09   |
|                            |           | 19              | 0         | 20.71  | 20.68   | 20.63   |
|                            |           | 19              | 9         | 20.65  | 20.65   | 20.62   |
|                            |           | 19              | 20        | 20.45  | 20.50   | 20.42   |
|                            |           | 38              | 0         | 20.56  | 20.68   | 20.51   |
|                            | 16QAM     | 1               | 0         | 20.41  | 20.41   | 20.46   |
|                            |           | 1               | 19        | 20.21  | 20.26   | 20.20   |
|                            |           | 1               | 37        | 19.71  | 19.74   | 19.84   |
|                            |           | 19              | 0         | 20.46  | 20.31   | 20.49   |
|                            |           | 19              | 9         | 20.35  | 20.37   | 20.49   |
|                            |           | 19              | 20        | 20.26  | 20.29   | 20.10   |
|                            |           | 38              | 0         | 20.37  | 20.36   | 20.38   |
|                            | 64QAM     | 1               | 0         | 19.99  | 20.09   | 20.08   |
|                            |           | 1               | 19        | 19.85  | 19.76   | 19.80   |
|                            |           | 1               | 37        | 19.32  | 19.31   | 19.45   |
|                            |           | 19              | 0         | 20.05  | 20.03   | 19.93   |
|                            |           | 19              | 9         | 20.06  | 20.07   | 20.01   |
|                            |           | 19              | 20        | 19.85  | 19.76   | 19.74   |
|                            |           | 38              | 0         | 19.88  | 19.93   | 19.95   |
|                            | 256QAM    | 1               | 0         | 17.44  | 17.45   | 17.47   |
|                            |           | 1               | 19        | 17.10  | 17.29   | 17.11   |
|                            |           | 1               | 37        | 16.77  | 16.75   | 16.76   |
|                            |           | 19              | 0         | 17.35  | 17.34   | 17.47   |
|                            |           | 19              | 9         | 17.50  | 17.48   | 17.42   |
|                            |           | 19              | 20        | 17.24  | 17.20   | 17.29   |
|                            |           | 38              | 0         | 17.36  | 17.27   | 17.25   |

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |        |
|----------------------------|-----------|-----------------|-----------|---------|---------|--------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High   |
|                            |           | Channel         |           | 500202  | 518598  | 537000 |
|                            |           | Frequency (MHz) |           | 2501.01 | 2592.99 | 2685   |
| 10M                        | pi/2 BPSK | 1               | 0         | 23.64   | 23.74   | 23.79  |
|                            |           | 1               | 12        | 23.50   | 23.60   | 23.43  |
|                            |           | 1               | 23        | 23.19   | 23.08   | 23.02  |
|                            |           | 12              | 0         | 23.74   | 23.64   | 23.71  |
|                            |           | 12              | 6         | 23.79   | 23.78   | 23.73  |
|                            |           | 12              | 12        | 23.47   | 23.52   | 23.47  |
|                            |           | 24              | 0         | 23.55   | 23.59   | 23.55  |
|                            | QPSK      | 1               | 0         | 20.62   | 20.69   | 20.79  |
|                            |           | 1               | 12        | 20.46   | 20.40   | 20.42  |
|                            |           | 1               | 23        | 20.09   | 20.15   | 20.13  |
|                            |           | 12              | 0         | 20.61   | 20.65   | 20.65  |
|                            |           | 12              | 6         | 20.63   | 20.61   | 20.61  |
|                            |           | 12              | 12        | 20.59   | 20.50   | 20.40  |
|                            |           | 24              | 0         | 20.60   | 20.61   | 20.61  |
|                            | 16QAM     | 1               | 0         | 20.45   | 20.44   | 20.36  |
|                            |           | 1               | 12        | 20.13   | 20.22   | 20.12  |
|                            |           | 1               | 23        | 19.90   | 19.78   | 19.81  |
|                            |           | 12              | 0         | 20.31   | 20.42   | 20.36  |
|                            |           | 12              | 6         | 20.38   | 20.41   | 20.32  |
|                            |           | 12              | 12        | 20.24   | 20.16   | 20.20  |
|                            |           | 24              | 0         | 20.34   | 20.27   | 20.30  |
|                            | 64QAM     | 1               | 0         | 20.07   | 19.91   | 20.07  |
|                            |           | 1               | 12        | 19.72   | 19.87   | 19.81  |
|                            |           | 1               | 23        | 19.33   | 19.35   | 19.42  |
|                            |           | 12              | 0         | 20.04   | 20.06   | 20.04  |
|                            |           | 12              | 6         | 19.96   | 19.90   | 20.03  |
|                            |           | 12              | 12        | 19.76   | 19.73   | 19.86  |
|                            |           | 24              | 0         | 19.84   | 19.88   | 20.00  |
|                            | 256QAM    | 1               | 0         | 17.43   | 17.41   | 17.31  |
|                            |           | 1               | 12        | 17.30   | 17.21   | 17.23  |
|                            |           | 1               | 23        | 16.83   | 16.87   | 16.87  |
|                            |           | 12              | 0         | 17.45   | 17.49   | 17.41  |
|                            |           | 12              | 6         | 17.36   | 17.41   | 17.43  |
|                            |           | 12              | 12        | 17.20   | 17.23   | 17.21  |
|                            |           | 24              | 0         | 17.34   | 17.21   | 17.31  |

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26865 | 26915 | 26965 |
|                       |           | Frequency (MHz) |           | 831.5 | 836.5 | 841.5 |
| 15M                   | QPSK      | 1               | 0         | 23.27 | 23.36 | 23.69 |
|                       |           | 1               | 37        | 23.11 | 23.32 | 23.54 |
|                       |           | 1               | 74        | 23.20 | 23.35 | 23.50 |
|                       |           | 36              | 0         | 22.13 | 23.33 | 22.65 |
|                       |           | 36              | 19        | 22.30 | 23.28 | 22.54 |
|                       |           | 36              | 39        | 22.18 | 23.33 | 22.60 |
|                       |           | 75              | 0         | 22.15 | 23.23 | 22.47 |
|                       | 16QAM     | 1               | 0         | 22.17 | 22.47 | 22.70 |
|                       |           | 1               | 37        | 22.10 | 22.31 | 22.70 |
|                       |           | 1               | 74        | 22.14 | 22.48 | 22.51 |
|                       |           | 36              | 0         | 21.27 | 22.39 | 21.69 |
|                       |           | 36              | 19        | 21.21 | 22.23 | 21.53 |
|                       |           | 36              | 39        | 21.17 | 22.21 | 21.56 |
|                       |           | 75              | 0         | 21.27 | 22.26 | 21.56 |
|                       | 64QAM     | 1               | 0         | 21.11 | 21.48 | 21.57 |
|                       |           | 1               | 37        | 21.14 | 21.35 | 21.51 |
|                       |           | 1               | 74        | 21.10 | 21.34 | 21.70 |
|                       |           | 36              | 0         | 20.11 | 21.26 | 20.65 |
|                       |           | 36              | 19        | 20.24 | 21.36 | 20.58 |
|                       |           | 36              | 39        | 20.18 | 21.24 | 20.64 |
|                       |           | 75              | 0         | 20.24 | 21.26 | 20.57 |
|                       | 256QAM    | 1               | 0         | 19.27 | 19.50 | 19.61 |
|                       |           | 1               | 37        | 19.20 | 19.33 | 19.51 |
|                       |           | 1               | 74        | 19.18 | 19.37 | 19.55 |
|                       |           | 36              | 0         | 18.19 | 19.30 | 18.66 |
|                       |           | 36              | 19        | 18.29 | 19.31 | 18.64 |
|                       |           | 36              | 39        | 18.23 | 19.21 | 18.54 |
|                       |           | 75              | 0         | 18.23 | 19.26 | 18.44 |

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26840 | 26915 | 26990 |
|                       |           | Frequency (MHz) |           | 829   | 836.5 | 844   |
| 10M                   | QPSK      | 1               | 0         | 23.20 | 23.46 | 23.51 |
|                       |           | 1               | 24        | 23.30 | 23.41 | 23.65 |
|                       |           | 1               | 49        | 23.27 | 23.42 | 23.67 |
|                       |           | 25              | 0         | 22.20 | 23.26 | 22.68 |
|                       |           | 25              | 12        | 22.29 | 23.34 | 22.68 |
|                       |           | 25              | 25        | 22.21 | 23.24 | 22.52 |
|                       |           | 50              | 0         | 22.20 | 23.32 | 22.54 |
|                       | 16QAM     | 1               | 0         | 22.25 | 22.33 | 22.51 |
|                       |           | 1               | 24        | 22.29 | 22.43 | 22.66 |
|                       |           | 1               | 49        | 22.23 | 22.50 | 22.65 |
|                       |           | 25              | 0         | 21.30 | 22.29 | 21.65 |
|                       |           | 25              | 12        | 21.16 | 22.25 | 21.54 |
|                       |           | 25              | 25        | 21.22 | 22.35 | 21.54 |
|                       |           | 50              | 0         | 21.15 | 22.39 | 21.50 |
|                       | 64QAM     | 1               | 0         | 21.27 | 21.36 | 21.57 |
|                       |           | 1               | 24        | 21.20 | 21.33 | 21.61 |
|                       |           | 1               | 49        | 21.29 | 21.31 | 21.68 |
|                       |           | 25              | 0         | 20.20 | 21.32 | 20.63 |
|                       |           | 25              | 12        | 20.13 | 21.22 | 20.68 |
|                       |           | 25              | 25        | 20.15 | 21.37 | 20.56 |
|                       |           | 50              | 0         | 20.11 | 21.21 | 20.56 |
|                       | 256QAM    | 1               | 0         | 19.26 | 19.31 | 19.68 |
|                       |           | 1               | 24        | 19.22 | 19.40 | 19.58 |
|                       |           | 1               | 49        | 19.27 | 19.45 | 19.58 |
|                       |           | 25              | 0         | 18.15 | 19.25 | 18.66 |
|                       |           | 25              | 12        | 18.16 | 19.31 | 18.62 |
|                       |           | 25              | 25        | 18.30 | 19.35 | 18.67 |
|                       |           | 50              | 0         | 18.21 | 19.20 | 18.49 |

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26815 | 26915 | 27015 |
|                       |           | Frequency (MHz) |           | 826.5 | 836.5 | 846.5 |
| 5M                    | QPSK      | 1               | 0         | 23.18 | 23.35 | 23.53 |
|                       |           | 1               | 12        | 23.26 | 23.38 | 23.65 |
|                       |           | 1               | 24        | 23.11 | 23.39 | 23.50 |
|                       |           | 12              | 0         | 22.15 | 23.26 | 22.68 |
|                       |           | 12              | 6         | 22.25 | 23.25 | 22.60 |
|                       |           | 12              | 13        | 22.18 | 23.33 | 22.69 |
|                       |           | 25              | 0         | 22.12 | 23.35 | 22.55 |
|                       | 16QAM     | 1               | 0         | 22.28 | 22.31 | 22.60 |
|                       |           | 1               | 12        | 22.27 | 22.47 | 22.66 |
|                       |           | 1               | 24        | 22.17 | 22.34 | 22.66 |
|                       |           | 12              | 0         | 21.26 | 22.38 | 21.52 |
|                       |           | 12              | 6         | 21.23 | 22.40 | 21.57 |
|                       |           | 12              | 13        | 21.25 | 22.38 | 21.67 |
|                       |           | 25              | 0         | 21.28 | 22.29 | 21.58 |
|                       | 64QAM     | 1               | 0         | 21.12 | 21.30 | 21.61 |
|                       |           | 1               | 12        | 21.30 | 21.47 | 21.63 |
|                       |           | 1               | 24        | 21.11 | 21.41 | 21.64 |
|                       |           | 12              | 0         | 20.27 | 21.29 | 20.62 |
|                       |           | 12              | 6         | 20.14 | 21.29 | 20.50 |
|                       |           | 12              | 13        | 20.25 | 21.23 | 20.65 |
|                       |           | 25              | 0         | 20.19 | 21.23 | 20.54 |
|                       | 256QAM    | 1               | 0         | 19.18 | 19.35 | 19.60 |
|                       |           | 1               | 12        | 19.20 | 19.31 | 19.52 |
|                       |           | 1               | 24        | 19.28 | 19.45 | 19.68 |
|                       |           | 12              | 0         | 18.11 | 19.26 | 18.51 |
|                       |           | 12              | 6         | 18.17 | 19.40 | 18.60 |
|                       |           | 12              | 13        | 18.27 | 19.37 | 18.57 |
|                       |           | 25              | 0         | 18.25 | 19.32 | 18.50 |

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26805 | 26915 | 27025 |
|                       |           | Frequency (MHz) |           | 825.5 | 836.5 | 847.5 |
| 3M                    | QPSK      | 1               | 0         | 23.11 | 23.31 | 23.63 |
|                       |           | 1               | 7         | 23.13 | 23.32 | 23.53 |
|                       |           | 1               | 14        | 23.17 | 23.46 | 23.50 |
|                       |           | 8               | 0         | 22.19 | 22.30 | 22.55 |
|                       |           | 8               | 3         | 22.13 | 22.28 | 22.53 |
|                       |           | 8               | 7         | 22.20 | 22.29 | 22.54 |
|                       |           | 15              | 0         | 22.07 | 22.11 | 22.62 |
|                       | 16QAM     | 1               | 0         | 22.28 | 22.24 | 22.67 |
|                       |           | 1               | 7         | 22.14 | 22.37 | 22.62 |
|                       |           | 1               | 14        | 22.24 | 22.35 | 22.45 |
|                       |           | 8               | 0         | 21.12 | 21.19 | 21.62 |
|                       |           | 8               | 3         | 21.13 | 21.28 | 21.64 |
|                       |           | 8               | 7         | 21.00 | 21.27 | 21.54 |
|                       |           | 15              | 0         | 21.17 | 21.23 | 21.63 |
|                       | 64QAM     | 1               | 0         | 21.20 | 21.30 | 21.65 |
|                       |           | 1               | 7         | 21.20 | 21.33 | 21.58 |
|                       |           | 1               | 14        | 21.15 | 21.39 | 21.59 |
|                       |           | 8               | 0         | 20.25 | 20.28 | 20.65 |
|                       |           | 8               | 3         | 20.16 | 20.11 | 20.63 |
|                       |           | 8               | 7         | 20.20 | 20.26 | 20.48 |
|                       |           | 15              | 0         | 20.12 | 20.28 | 20.56 |
|                       | 256QAM    | 1               | 0         | 19.29 | 19.37 | 19.63 |
|                       |           | 1               | 7         | 19.07 | 19.32 | 19.57 |
|                       |           | 1               | 14        | 19.27 | 19.39 | 19.52 |
|                       |           | 8               | 0         | 18.24 | 18.13 | 18.62 |
|                       |           | 8               | 3         | 18.28 | 18.16 | 18.64 |
|                       |           | 8               | 7         | 18.09 | 18.16 | 18.50 |
|                       |           | 15              | 0         | 18.02 | 18.11 | 18.50 |

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26797 | 26915 | 27033 |
|                       |           | Frequency (MHz) |           | 824.7 | 836.5 | 848.3 |
| 1.4M                  | QPSK      | 1               | 0         | 23.18 | 23.25 | 23.50 |
|                       |           | 1               | 2         | 23.18 | 23.37 | 23.68 |
|                       |           | 1               | 5         | 23.30 | 23.32 | 23.42 |
|                       |           | 3               | 0         | 22.19 | 22.16 | 22.50 |
|                       |           | 3               | 1         | 22.27 | 22.23 | 22.60 |
|                       |           | 3               | 3         | 22.17 | 22.25 | 22.55 |
|                       |           | 6               | 0         | 22.10 | 22.19 | 22.65 |
|                       | 16QAM     | 1               | 0         | 22.16 | 22.25 | 22.55 |
|                       |           | 1               | 2         | 22.08 | 22.35 | 22.55 |
|                       |           | 1               | 5         | 22.30 | 22.39 | 22.46 |
|                       |           | 3               | 0         | 21.12 | 21.14 | 21.58 |
|                       |           | 3               | 1         | 21.11 | 21.26 | 21.57 |
|                       |           | 3               | 3         | 21.14 | 21.19 | 21.50 |
|                       |           | 6               | 0         | 21.15 | 21.18 | 21.54 |
|                       | 64QAM     | 1               | 0         | 21.24 | 21.40 | 21.55 |
|                       |           | 1               | 2         | 21.17 | 21.36 | 21.62 |
|                       |           | 1               | 5         | 21.18 | 21.30 | 21.59 |
|                       |           | 3               | 0         | 20.20 | 20.15 | 20.70 |
|                       |           | 3               | 1         | 20.22 | 20.25 | 20.51 |
|                       |           | 3               | 3         | 20.15 | 20.23 | 20.41 |
|                       |           | 6               | 0         | 20.11 | 20.27 | 20.51 |
|                       | 256QAM    | 1               | 0         | 19.20 | 19.36 | 19.70 |
|                       |           | 1               | 2         | 19.17 | 19.30 | 19.66 |
|                       |           | 1               | 5         | 19.15 | 19.43 | 19.54 |
|                       |           | 3               | 0         | 18.11 | 18.21 | 18.63 |
|                       |           | 3               | 1         | 18.23 | 18.17 | 18.70 |
|                       |           | 3               | 3         | 18.04 | 18.26 | 18.53 |
|                       |           | 6               | 0         | 18.03 | 18.15 | 18.57 |

| LTE Band 26 (Part 90) |           |                 |           |       |
|-----------------------|-----------|-----------------|-----------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Mid   |
|                       |           | Channel         |           | 26740 |
|                       |           | Frequency (MHz) |           | 819   |
| 10M                   | QPSK      | 1               | 0         | 23.42 |
|                       |           | 1               | 24        | 23.33 |
|                       |           | 1               | 49        | 23.49 |
|                       |           | 25              | 0         | 23.34 |
|                       |           | 25              | 12        | 23.40 |
|                       |           | 25              | 25        | 23.26 |
|                       |           | 50              | 0         | 23.23 |
|                       | 16QAM     | 1               | 0         | 22.32 |
|                       |           | 1               | 24        | 22.49 |
|                       |           | 1               | 49        | 22.43 |
|                       |           | 25              | 0         | 22.23 |
|                       |           | 25              | 12        | 22.36 |
|                       |           | 25              | 25        | 22.36 |
|                       |           | 50              | 0         | 22.33 |
|                       | 64QAM     | 1               | 0         | 21.34 |
|                       |           | 1               | 24        | 21.37 |
|                       |           | 1               | 49        | 21.41 |
|                       |           | 25              | 0         | 21.31 |
|                       |           | 25              | 12        | 21.39 |
|                       |           | 25              | 25        | 21.32 |
|                       |           | 50              | 0         | 21.31 |
|                       | 256QAM    | 1               | 0         | 19.37 |
|                       |           | 1               | 24        | 19.35 |
|                       |           | 1               | 49        | 19.40 |
|                       |           | 25              | 0         | 19.26 |
|                       |           | 25              | 12        | 19.35 |
|                       |           | 25              | 25        | 19.25 |
|                       |           | 50              | 0         | 19.23 |

| LTE Band 26 (Part 90) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26715 | 26740 | 26765 |
|                       |           | Frequency (MHz) |           | 816.5 | 819   | 821.5 |
| 5M                    | QPSK      | 1               | 0         | 23.27 | 23.32 | 23.66 |
|                       |           | 1               | 12        | 23.10 | 23.37 | 23.64 |
|                       |           | 1               | 24        | 23.28 | 23.44 | 23.52 |
|                       |           | 12              | 0         | 22.25 | 23.36 | 22.67 |
|                       |           | 12              | 6         | 22.17 | 23.29 | 22.65 |
|                       |           | 12              | 13        | 22.24 | 23.24 | 22.55 |
|                       |           | 25              | 0         | 22.11 | 23.39 | 22.51 |
|                       | 16QAM     | 1               | 0         | 22.17 | 22.40 | 22.64 |
|                       |           | 1               | 12        | 22.18 | 22.30 | 22.62 |
|                       |           | 1               | 24        | 22.11 | 22.50 | 22.54 |
|                       |           | 12              | 0         | 21.22 | 22.20 | 21.56 |
|                       |           | 12              | 6         | 21.28 | 22.26 | 21.70 |
|                       |           | 12              | 13        | 21.30 | 22.22 | 21.68 |
|                       |           | 25              | 0         | 21.22 | 22.26 | 21.42 |
|                       | 64QAM     | 1               | 0         | 21.20 | 21.32 | 21.56 |
|                       |           | 1               | 12        | 21.26 | 21.34 | 21.69 |
|                       |           | 1               | 24        | 21.22 | 21.31 | 21.57 |
|                       |           | 12              | 0         | 20.27 | 21.21 | 20.51 |
|                       |           | 12              | 6         | 20.22 | 21.29 | 20.56 |
|                       |           | 12              | 13        | 20.11 | 21.20 | 20.59 |
|                       |           | 25              | 0         | 20.24 | 21.38 | 20.47 |
|                       | 256QAM    | 1               | 0         | 19.13 | 19.50 | 19.67 |
|                       |           | 1               | 12        | 19.27 | 19.39 | 19.67 |
|                       |           | 1               | 24        | 19.11 | 19.31 | 19.56 |
|                       |           | 12              | 0         | 18.27 | 19.32 | 18.67 |
|                       |           | 12              | 6         | 18.20 | 19.33 | 18.53 |
|                       |           | 12              | 13        | 18.12 | 19.24 | 18.70 |
|                       |           | 25              | 0         | 18.25 | 19.39 | 18.50 |

| LTE Band 26 (Part 90) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26705 | 26740 | 26775 |
|                       |           | Frequency (MHz) |           | 815.5 | 819   | 822.5 |
| 3M                    | QPSK      | 1               | 0         | 23.27 | 23.24 | 23.57 |
|                       |           | 1               | 7         | 23.18 | 23.23 | 23.66 |
|                       |           | 1               | 14        | 23.25 | 23.48 | 23.52 |
|                       |           | 8               | 0         | 22.14 | 22.11 | 22.55 |
|                       |           | 8               | 3         | 22.10 | 22.13 | 22.64 |
|                       |           | 8               | 7         | 22.17 | 22.10 | 22.44 |
|                       |           | 15              | 0         | 22.02 | 22.15 | 22.66 |
|                       | 16QAM     | 1               | 0         | 22.29 | 22.33 | 22.68 |
|                       |           | 1               | 7         | 22.19 | 22.33 | 22.65 |
|                       |           | 1               | 14        | 22.28 | 22.40 | 22.51 |
|                       |           | 8               | 0         | 21.15 | 21.16 | 21.55 |
|                       |           | 8               | 3         | 21.26 | 21.27 | 21.53 |
|                       |           | 8               | 7         | 21.09 | 21.30 | 21.49 |
|                       |           | 15              | 0         | 21.13 | 21.19 | 21.52 |
|                       | 64QAM     | 1               | 0         | 21.22 | 21.20 | 21.54 |
|                       |           | 1               | 7         | 21.04 | 21.20 | 21.58 |
|                       |           | 1               | 14        | 21.13 | 21.40 | 21.45 |
|                       |           | 8               | 0         | 20.29 | 20.18 | 20.63 |
|                       |           | 8               | 3         | 20.13 | 20.12 | 20.52 |
|                       |           | 8               | 7         | 20.03 | 20.29 | 20.54 |
|                       |           | 15              | 0         | 20.06 | 20.21 | 20.64 |
|                       | 256QAM    | 1               | 0         | 19.10 | 19.36 | 19.68 |
|                       |           | 1               | 7         | 19.11 | 19.34 | 19.60 |
|                       |           | 1               | 14        | 19.13 | 19.30 | 19.51 |
|                       |           | 8               | 0         | 18.26 | 18.16 | 18.60 |
|                       |           | 8               | 3         | 18.27 | 18.23 | 18.56 |
|                       |           | 8               | 7         | 18.18 | 18.23 | 18.45 |
|                       |           | 15              | 0         | 18.15 | 18.18 | 18.54 |

| LTE Band 26 (Part 90) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26697 | 26740 | 26783 |
|                       |           | Frequency (MHz) |           | 814.7 | 819   | 823.3 |
| 1.4M                  | QPSK      | 1               | 0         | 23.12 | 23.35 | 23.65 |
|                       |           | 1               | 2         | 23.11 | 23.20 | 23.52 |
|                       |           | 1               | 5         | 23.24 | 23.35 | 23.45 |
|                       |           | 3               | 0         | 22.21 | 22.21 | 22.64 |
|                       |           | 3               | 1         | 22.28 | 22.15 | 22.50 |
|                       |           | 3               | 3         | 22.17 | 22.21 | 22.45 |
|                       |           | 6               | 0         | 22.07 | 22.24 | 22.58 |
|                       | 16QAM     | 1               | 0         | 22.20 | 22.27 | 22.60 |
|                       |           | 1               | 2         | 22.00 | 22.27 | 22.59 |
|                       |           | 1               | 5         | 22.29 | 22.31 | 22.54 |
|                       |           | 3               | 0         | 21.13 | 21.12 | 21.65 |
|                       |           | 3               | 1         | 21.16 | 21.25 | 21.55 |
|                       |           | 3               | 3         | 21.09 | 21.25 | 21.40 |
|                       |           | 6               | 0         | 21.07 | 21.13 | 21.55 |
|                       | 64QAM     | 1               | 0         | 21.27 | 21.38 | 21.61 |
|                       |           | 1               | 2         | 21.03 | 21.25 | 21.69 |
|                       |           | 1               | 5         | 21.17 | 21.44 | 21.48 |
|                       |           | 3               | 0         | 20.24 | 20.27 | 20.69 |
|                       |           | 3               | 1         | 20.21 | 20.17 | 20.59 |
|                       |           | 3               | 3         | 20.11 | 20.19 | 20.54 |
|                       |           | 6               | 0         | 20.20 | 20.24 | 20.66 |
|                       | 256QAM    | 1               | 0         | 19.25 | 19.36 | 19.57 |
|                       |           | 1               | 2         | 19.18 | 19.38 | 19.53 |
|                       |           | 1               | 5         | 19.29 | 19.34 | 19.50 |
|                       |           | 3               | 0         | 18.22 | 18.15 | 18.69 |
|                       |           | 3               | 1         | 18.12 | 18.19 | 18.62 |
|                       |           | 3               | 3         | 18.18 | 18.16 | 18.58 |
|                       |           | 6               | 0         | 18.13 | 18.23 | 18.51 |

**EIRP Power (dBm)**

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |        |
|----------------------------|-----------|-----------------|-----------|---------|---------|--------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High   |
|                            |           | Channel         |           | 509202  | 518598  | 528000 |
|                            |           | Frequency (MHz) |           | 2546.01 | 2592.99 | 2640   |
| 100M                       | pi/2 BPSK | 1               | 0         | 25.97   | 25.81   | 25.99  |
|                            |           | 1               | 136       | 25.66   | 25.70   | 25.62  |
|                            |           | 1               | 272       | 25.30   | 25.40   | 25.23  |
|                            |           | 136             | 0         | 26.00   | 25.89   | 25.82  |
|                            |           | 136             | 68        | 25.90   | 25.95   | 26.00  |
|                            |           | 136             | 136       | 25.77   | 25.80   | 25.69  |
|                            |           | 273             | 0         | 25.83   | 25.86   | 25.87  |
|                            | QPSK      | 1               | 0         | 22.92   | 22.99   | 22.94  |
|                            |           | 1               | 136       | 22.69   | 22.75   | 22.70  |
|                            |           | 1               | 272       | 22.36   | 22.36   | 22.20  |
|                            |           | 136             | 0         | 22.87   | 22.97   | 22.89  |
|                            |           | 136             | 68        | 22.89   | 22.94   | 22.84  |
|                            |           | 136             | 136       | 22.70   | 22.73   | 22.76  |
|                            |           | 273             | 0         | 22.83   | 22.76   | 22.86  |
|                            | 16QAM     | 1               | 0         | 22.63   | 22.53   | 22.51  |
|                            |           | 1               | 136       | 22.34   | 22.32   | 22.41  |
|                            |           | 1               | 272       | 21.98   | 21.90   | 22.09  |
|                            |           | 136             | 0         | 22.64   | 22.58   | 22.68  |
|                            |           | 136             | 68        | 22.50   | 22.64   | 22.59  |
|                            |           | 136             | 136       | 22.48   | 22.50   | 22.33  |
|                            |           | 273             | 0         | 22.60   | 22.51   | 22.57  |
|                            | 64QAM     | 1               | 0         | 22.14   | 22.25   | 22.10  |
|                            |           | 1               | 136       | 21.96   | 21.95   | 21.92  |
|                            |           | 1               | 272       | 21.60   | 21.68   | 21.52  |
|                            |           | 136             | 0         | 22.28   | 22.30   | 22.20  |
|                            |           | 136             | 68        | 22.21   | 22.27   | 22.21  |
|                            |           | 136             | 136       | 22.02   | 21.96   | 21.98  |
|                            |           | 273             | 0         | 22.19   | 22.04   | 22.09  |
|                            | 256QAM    | 1               | 0         | 19.68   | 19.55   | 19.54  |
|                            |           | 1               | 136       | 19.32   | 19.31   | 19.44  |
|                            |           | 1               | 272       | 19.03   | 19.01   | 19.05  |
|                            |           | 136             | 0         | 19.58   | 19.51   | 19.59  |
|                            |           | 136             | 68        | 19.52   | 19.54   | 19.52  |
|                            |           | 136             | 136       | 19.38   | 19.48   | 19.35  |
|                            |           | 273             | 0         | 19.57   | 19.51   | 19.55  |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |        |         |         |
|----------------------------|-----------|-----------------|-----------|--------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low    | Mid     | High    |
|                            |           | Channel         |           | 508200 | 518598  | 528996  |
|                            |           | Frequency (MHz) |           | 2541   | 2592.99 | 2644.98 |
| 90M                        | pi/2 BPSK | 1               | 0         | 25.98  | 25.86   | 25.82   |
|                            |           | 1               | 122       | 25.77  | 25.79   | 25.73   |
|                            |           | 1               | 244       | 25.27  | 25.30   | 25.27   |
|                            |           | 122             | 0         | 25.94  | 25.86   | 25.94   |
|                            |           | 122             | 61        | 25.97  | 25.97   | 25.86   |
|                            |           | 122             | 122       | 25.66  | 25.74   | 25.67   |
|                            |           | 245             | 0         | 25.85  | 25.78   | 25.78   |
|                            | QPSK      | 1               | 0         | 22.92  | 22.86   | 22.89   |
|                            |           | 1               | 122       | 22.61  | 22.60   | 22.73   |
|                            |           | 1               | 244       | 22.39  | 22.28   | 22.24   |
|                            |           | 122             | 0         | 22.80  | 22.98   | 22.96   |
|                            |           | 122             | 61        | 22.88  | 22.88   | 22.85   |
|                            |           | 122             | 122       | 22.73  | 22.61   | 22.76   |
|                            |           | 245             | 0         | 22.77  | 22.78   | 22.88   |
|                            | 16QAM     | 1               | 0         | 22.55  | 22.64   | 22.68   |
|                            |           | 1               | 122       | 22.40  | 22.41   | 22.48   |
|                            |           | 1               | 244       | 21.95  | 22.09   | 22.09   |
|                            |           | 122             | 0         | 22.67  | 22.63   | 22.58   |
|                            |           | 122             | 61        | 22.54  | 22.70   | 22.52   |
|                            |           | 122             | 122       | 22.38  | 22.41   | 22.43   |
|                            |           | 245             | 0         | 22.45  | 22.40   | 22.41   |
|                            | 64QAM     | 1               | 0         | 22.29  | 22.14   | 22.26   |
|                            |           | 1               | 122       | 22.08  | 21.94   | 22.05   |
|                            |           | 1               | 244       | 21.65  | 21.70   | 21.59   |
|                            |           | 122             | 0         | 22.25  | 22.27   | 22.19   |
|                            |           | 122             | 61        | 22.16  | 22.23   | 22.12   |
|                            |           | 122             | 122       | 22.01  | 21.98   | 21.93   |
|                            |           | 245             | 0         | 22.17  | 22.01   | 22.02   |
|                            | 256QAM    | 1               | 0         | 19.61  | 19.70   | 19.59   |
|                            |           | 1               | 122       | 19.45  | 19.39   | 19.34   |
|                            |           | 1               | 244       | 19.04  | 19.09   | 18.93   |
|                            |           | 122             | 0         | 19.55  | 19.51   | 19.54   |
|                            |           | 122             | 61        | 19.68  | 19.63   | 19.66   |
|                            |           | 122             | 122       | 19.42  | 19.37   | 19.45   |
|                            |           | 245             | 0         | 19.56  | 19.47   | 19.60   |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |         |
|----------------------------|-----------|-----------------|-----------|---------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High    |
|                            |           | Channel         |           | 507204  | 518598  | 529998  |
|                            |           | Frequency (MHz) |           | 2536.02 | 2592.99 | 2649.99 |
| 80M                        | pi/2 BPSK | 1               | 0         | 25.92   | 25.81   | 25.92   |
|                            |           | 1               | 108       | 25.77   | 25.75   | 25.71   |
|                            |           | 1               | 216       | 25.28   | 25.31   | 25.36   |
|                            |           | 108             | 0         | 25.92   | 26.00   | 25.92   |
|                            |           | 108             | 54        | 26.00   | 25.83   | 25.87   |
|                            |           | 108             | 108       | 25.76   | 25.68   | 25.79   |
|                            |           | 217             | 0         | 25.82   | 25.73   | 25.88   |
|                            | QPSK      | 1               | 0         | 22.93   | 23.00   | 22.84   |
|                            |           | 1               | 108       | 22.79   | 22.69   | 22.80   |
|                            |           | 1               | 216       | 22.33   | 22.21   | 22.31   |
|                            |           | 108             | 0         | 22.85   | 22.80   | 22.89   |
|                            |           | 108             | 54        | 22.91   | 23.00   | 22.93   |
|                            |           | 108             | 108       | 22.76   | 22.63   | 22.61   |
|                            |           | 217             | 0         | 22.70   | 22.80   | 22.76   |
|                            | 16QAM     | 1               | 0         | 22.62   | 22.62   | 22.52   |
|                            |           | 1               | 108       | 22.41   | 22.48   | 22.44   |
|                            |           | 1               | 216       | 22.03   | 22.08   | 22.08   |
|                            |           | 108             | 0         | 22.60   | 22.57   | 22.55   |
|                            |           | 108             | 54        | 22.69   | 22.66   | 22.54   |
|                            |           | 108             | 108       | 22.50   | 22.41   | 22.39   |
|                            |           | 217             | 0         | 22.42   | 22.58   | 22.54   |
|                            | 64QAM     | 1               | 0         | 22.13   | 22.26   | 22.21   |
|                            |           | 1               | 108       | 22.05   | 21.96   | 22.10   |
|                            |           | 1               | 216       | 21.68   | 21.67   | 21.70   |
|                            |           | 108             | 0         | 22.15   | 22.23   | 22.25   |
|                            |           | 108             | 54        | 22.11   | 22.22   | 22.26   |
|                            |           | 108             | 108       | 21.92   | 22.08   | 22.03   |
|                            |           | 217             | 0         | 22.03   | 22.00   | 22.12   |
|                            | 256QAM    | 1               | 0         | 19.69   | 19.64   | 19.65   |
|                            |           | 1               | 108       | 19.31   | 19.41   | 19.43   |
|                            |           | 1               | 216       | 19.04   | 19.08   | 19.08   |
|                            |           | 108             | 0         | 19.67   | 19.65   | 19.68   |
|                            |           | 108             | 54        | 19.55   | 19.61   | 19.59   |
|                            |           | 108             | 108       | 19.37   | 19.44   | 19.34   |
|                            |           | 217             | 0         | 19.55   | 19.58   | 19.42   |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |        |         |         |
|----------------------------|-----------|-----------------|-----------|--------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low    | Mid     | High    |
|                            |           | Channel         |           | 505200 | 518598  | 531996  |
|                            |           | Frequency (MHz) |           | 2526   | 2592.99 | 2659.98 |
| 60M                        | pi/2 BPSK | 1               | 0         | 25.98  | 25.83   | 25.98   |
|                            |           | 1               | 81        | 25.65  | 25.79   | 25.70   |
|                            |           | 1               | 161       | 25.31  | 25.22   | 25.21   |
|                            |           | 81              | 0         | 25.88  | 25.99   | 25.86   |
|                            |           | 81              | 40        | 25.87  | 25.80   | 25.88   |
|                            |           | 81              | 81        | 25.76  | 25.70   | 25.69   |
|                            |           | 162             | 0         | 25.72  | 25.83   | 25.82   |
|                            | QPSK      | 1               | 0         | 22.89  | 22.99   | 22.87   |
|                            |           | 1               | 81        | 22.79  | 22.69   | 22.62   |
|                            |           | 1               | 161       | 22.23  | 22.21   | 22.35   |
|                            |           | 81              | 0         | 22.83  | 22.80   | 22.99   |
|                            |           | 81              | 40        | 22.98  | 22.82   | 22.82   |
|                            |           | 81              | 81        | 22.73  | 22.64   | 22.62   |
|                            |           | 162             | 0         | 22.83  | 22.78   | 22.85   |
|                            | 16QAM     | 1               | 0         | 22.63  | 22.65   | 22.69   |
|                            |           | 1               | 81        | 22.34  | 22.32   | 22.43   |
|                            |           | 1               | 161       | 22.03  | 21.95   | 22.07   |
|                            |           | 81              | 0         | 22.52  | 22.54   | 22.67   |
|                            |           | 81              | 40        | 22.63  | 22.65   | 22.64   |
|                            |           | 81              | 81        | 22.40  | 22.33   | 22.44   |
|                            |           | 162             | 0         | 22.42  | 22.60   | 22.44   |
|                            | 64QAM     | 1               | 0         | 22.22  | 22.10   | 22.14   |
|                            |           | 1               | 81        | 21.91  | 21.99   | 22.09   |
|                            |           | 1               | 161       | 21.62  | 21.55   | 21.67   |
|                            |           | 81              | 0         | 22.14  | 22.15   | 22.14   |
|                            |           | 81              | 40        | 22.20  | 22.30   | 22.10   |
|                            |           | 81              | 81        | 21.93  | 21.90   | 21.90   |
|                            |           | 162             | 0         | 22.00  | 22.14   | 22.06   |
|                            | 256QAM    | 1               | 0         | 19.68  | 19.70   | 19.51   |
|                            |           | 1               | 81        | 19.45  | 19.35   | 19.44   |
|                            |           | 1               | 161       | 18.96  | 19.00   | 19.05   |
|                            |           | 81              | 0         | 19.58  | 19.64   | 19.51   |
|                            |           | 81              | 40        | 19.63  | 19.57   | 19.54   |
|                            |           | 81              | 81        | 19.42  | 19.50   | 19.30   |
|                            |           | 162             | 0         | 19.54  | 19.59   | 19.45   |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |         |
|----------------------------|-----------|-----------------|-----------|---------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High    |
|                            |           | Channel         |           | 504204  | 518598  | 532998  |
|                            |           | Frequency (MHz) |           | 2521.02 | 2592.99 | 2664.99 |
| 50M                        | pi/2 BPSK | 1               | 0         | 25.90   | 25.86   | 25.95   |
|                            |           | 1               | 66        | 25.73   | 25.79   | 25.71   |
|                            |           | 1               | 132       | 25.30   | 25.22   | 25.39   |
|                            |           | 66              | 0         | 25.80   | 26.00   | 25.94   |
|                            |           | 66              | 33        | 25.81   | 25.93   | 25.97   |
|                            |           | 66              | 66        | 25.65   | 25.79   | 25.68   |
|                            |           | 133             | 0         | 25.70   | 25.84   | 25.74   |
|                            | QPSK      | 1               | 0         | 22.85   | 22.99   | 22.85   |
|                            |           | 1               | 66        | 22.83   | 22.78   | 22.78   |
|                            |           | 1               | 132       | 22.38   | 22.27   | 22.31   |
|                            |           | 66              | 0         | 22.99   | 22.89   | 22.87   |
|                            |           | 66              | 33        | 22.83   | 22.89   | 22.81   |
|                            |           | 66              | 66        | 22.74   | 22.67   | 22.75   |
|                            |           | 133             | 0         | 22.74   | 22.72   | 22.77   |
|                            | 16QAM     | 1               | 0         | 22.80   | 22.85   | 22.93   |
|                            |           | 1               | 66        | 22.78   | 22.81   | 22.70   |
|                            |           | 1               | 132       | 22.34   | 22.36   | 22.40   |
|                            |           | 66              | 0         | 22.99   | 22.95   | 22.91   |
|                            |           | 66              | 33        | 22.86   | 22.83   | 22.96   |
|                            |           | 66              | 66        | 22.63   | 22.74   | 22.74   |
|                            |           | 133             | 0         | 22.82   | 22.79   | 22.86   |
|                            | 64QAM     | 1               | 0         | 22.47   | 22.43   | 22.45   |
|                            |           | 1               | 66        | 22.32   | 22.22   | 22.35   |
|                            |           | 1               | 132       | 21.88   | 21.78   | 21.78   |
|                            |           | 66              | 0         | 22.49   | 22.32   | 22.47   |
|                            |           | 66              | 33        | 22.47   | 22.48   | 22.38   |
|                            |           | 66              | 66        | 22.18   | 22.18   | 22.11   |
|                            |           | 133             | 0         | 22.25   | 22.21   | 22.36   |
|                            | 256QAM    | 1               | 0         | 19.50   | 19.35   | 19.32   |
|                            |           | 1               | 66        | 19.24   | 19.20   | 19.20   |
|                            |           | 1               | 132       | 18.78   | 18.71   | 18.81   |
|                            |           | 66              | 0         | 19.47   | 19.45   | 19.42   |
|                            |           | 66              | 33        | 19.37   | 19.31   | 19.46   |
|                            |           | 66              | 66        | 19.19   | 19.15   | 19.22   |
|                            |           | 133             | 0         | 19.33   | 19.35   | 19.27   |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |        |
|----------------------------|-----------|-----------------|-----------|---------|---------|--------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High   |
|                            |           | Channel         |           | 503202  | 518598  | 534000 |
|                            |           | Frequency (MHz) |           | 2516.01 | 2592.99 | 2670   |
| 40M                        | pi/2 BPSK | 1               | 0         | 25.94   | 25.91   | 25.96  |
|                            |           | 1               | 53        | 25.64   | 25.63   | 25.61  |
|                            |           | 1               | 105       | 25.33   | 25.39   | 25.32  |
|                            |           | 53              | 0         | 25.84   | 25.80   | 25.99  |
|                            |           | 53              | 26        | 25.83   | 26.00   | 25.80  |
|                            |           | 53              | 53        | 25.67   | 25.63   | 25.62  |
|                            |           | 106             | 0         | 25.85   | 25.73   | 25.83  |
|                            | QPSK      | 1               | 0         | 22.80   | 22.89   | 22.97  |
|                            |           | 1               | 53        | 22.75   | 22.74   | 22.80  |
|                            |           | 1               | 105       | 22.24   | 22.26   | 22.36  |
|                            |           | 53              | 0         | 22.97   | 22.96   | 22.98  |
|                            |           | 53              | 26        | 22.94   | 22.85   | 22.98  |
|                            |           | 53              | 53        | 22.63   | 22.61   | 22.68  |
|                            |           | 106             | 0         | 22.83   | 22.75   | 22.71  |
|                            | 16QAM     | 1               | 0         | 22.58   | 22.59   | 22.62  |
|                            |           | 1               | 53        | 22.36   | 22.42   | 22.41  |
|                            |           | 1               | 105       | 22.04   | 21.98   | 21.94  |
|                            |           | 53              | 0         | 22.52   | 22.67   | 22.60  |
|                            |           | 53              | 26        | 22.62   | 22.59   | 22.57  |
|                            |           | 53              | 53        | 22.33   | 22.49   | 22.45  |
|                            |           | 106             | 0         | 22.42   | 22.51   | 22.47  |
|                            | 64QAM     | 1               | 0         | 22.29   | 22.10   | 22.10  |
|                            |           | 1               | 53        | 21.98   | 21.99   | 22.09  |
|                            |           | 1               | 105       | 21.65   | 21.67   | 21.64  |
|                            |           | 53              | 0         | 22.25   | 22.24   | 22.15  |
|                            |           | 53              | 26        | 22.14   | 22.10   | 22.24  |
|                            |           | 53              | 53        | 21.98   | 22.04   | 22.01  |
|                            |           | 106             | 0         | 22.18   | 22.02   | 22.06  |
|                            | 256QAM    | 1               | 0         | 19.66   | 19.53   | 19.57  |
|                            |           | 1               | 53        | 19.32   | 19.35   | 19.48  |
|                            |           | 1               | 105       | 18.90   | 18.90   | 19.10  |
|                            |           | 53              | 0         | 19.50   | 19.62   | 19.63  |
|                            |           | 53              | 26        | 19.53   | 19.64   | 19.62  |
|                            |           | 53              | 53        | 19.47   | 19.36   | 19.31  |
|                            |           | 106             | 0         | 19.56   | 19.45   | 19.53  |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |         |
|----------------------------|-----------|-----------------|-----------|---------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High    |
|                            |           | Channel         |           | 501204  | 518598  | 535998  |
|                            |           | Frequency (MHz) |           | 2506.02 | 2592.99 | 2679.99 |
| 20M                        | pi/2 BPSK | 1               | 0         | 26.00   | 26.00   | 25.87   |
|                            |           | 1               | 25        | 25.63   | 25.66   | 25.72   |
|                            |           | 1               | 50        | 25.20   | 25.23   | 25.24   |
|                            |           | 25              | 0         | 25.90   | 25.90   | 25.96   |
|                            |           | 25              | 12        | 25.87   | 25.98   | 25.84   |
|                            |           | 25              | 25        | 25.64   | 25.64   | 25.66   |
|                            |           | 51              | 0         | 25.90   | 25.74   | 25.82   |
|                            | QPSK      | 1               | 0         | 23.00   | 22.94   | 22.80   |
|                            |           | 1               | 25        | 22.74   | 22.64   | 22.75   |
|                            |           | 1               | 50        | 22.30   | 22.23   | 22.32   |
|                            |           | 25              | 0         | 22.81   | 22.93   | 22.85   |
|                            |           | 25              | 12        | 22.90   | 22.92   | 22.87   |
|                            |           | 25              | 25        | 22.64   | 22.80   | 22.68   |
|                            |           | 51              | 0         | 22.74   | 22.87   | 22.85   |
|                            | 16QAM     | 1               | 0         | 22.70   | 22.54   | 22.70   |
|                            |           | 1               | 25        | 22.44   | 22.42   | 22.32   |
|                            |           | 1               | 50        | 21.92   | 21.93   | 21.92   |
|                            |           | 25              | 0         | 22.63   | 22.56   | 22.53   |
|                            |           | 25              | 12        | 22.50   | 22.61   | 22.65   |
|                            |           | 25              | 25        | 22.50   | 22.36   | 22.49   |
|                            |           | 51              | 0         | 22.46   | 22.44   | 22.54   |
|                            | 64QAM     | 1               | 0         | 22.13   | 22.16   | 22.23   |
|                            |           | 1               | 25        | 21.92   | 22.07   | 22.07   |
|                            |           | 1               | 50        | 21.50   | 21.61   | 21.64   |
|                            |           | 25              | 0         | 22.12   | 22.15   | 22.11   |
|                            |           | 25              | 12        | 22.28   | 22.28   | 22.19   |
|                            |           | 25              | 25        | 21.92   | 21.98   | 22.01   |
|                            |           | 51              | 0         | 22.06   | 22.20   | 22.19   |
|                            | 256QAM    | 1               | 0         | 19.55   | 19.51   | 19.68   |
|                            |           | 1               | 25        | 19.36   | 19.46   | 19.49   |
|                            |           | 1               | 50        | 19.02   | 19.04   | 18.94   |
|                            |           | 25              | 0         | 19.69   | 19.52   | 19.64   |
|                            |           | 25              | 12        | 19.63   | 19.55   | 19.58   |
|                            |           | 25              | 25        | 19.45   | 19.39   | 19.47   |
|                            |           | 51              | 0         | 19.42   | 19.58   | 19.46   |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |        |         |         |
|----------------------------|-----------|-----------------|-----------|--------|---------|---------|
| BW                         | MCS Index | RB Size         | RB Offset | Low    | Mid     | High    |
|                            |           | Channel         |           | 500700 | 518598  | 536496  |
|                            |           | Frequency (MHz) |           | 2503.5 | 2592.99 | 2682.48 |
| 15M                        | pi/2 BPSK | 1               | 0         | 25.94  | 26.00   | 25.88   |
|                            |           | 1               | 19        | 25.71  | 25.77   | 25.73   |
|                            |           | 1               | 37        | 25.33  | 25.39   | 25.24   |
|                            |           | 19              | 0         | 25.82  | 25.80   | 25.87   |
|                            |           | 19              | 9         | 25.95  | 25.98   | 25.95   |
|                            |           | 19              | 20        | 25.76  | 25.64   | 25.77   |
|                            |           | 38              | 0         | 25.71  | 25.74   | 25.72   |
|                            | QPSK      | 1               | 0         | 22.80  | 22.98   | 22.81   |
|                            |           | 1               | 19        | 22.68  | 22.68   | 22.64   |
|                            |           | 1               | 37        | 22.37  | 22.34   | 22.29   |
|                            |           | 19              | 0         | 22.91  | 22.88   | 22.83   |
|                            |           | 19              | 9         | 22.85  | 22.85   | 22.82   |
|                            |           | 19              | 20        | 22.65  | 22.70   | 22.62   |
|                            |           | 38              | 0         | 22.76  | 22.88   | 22.71   |
|                            | 16QAM     | 1               | 0         | 22.61  | 22.61   | 22.66   |
|                            |           | 1               | 19        | 22.41  | 22.46   | 22.40   |
|                            |           | 1               | 37        | 21.91  | 21.94   | 22.04   |
|                            |           | 19              | 0         | 22.66  | 22.51   | 22.69   |
|                            |           | 19              | 9         | 22.55  | 22.57   | 22.69   |
|                            |           | 19              | 20        | 22.46  | 22.49   | 22.30   |
|                            |           | 38              | 0         | 22.57  | 22.56   | 22.58   |
|                            | 64QAM     | 1               | 0         | 22.19  | 22.29   | 22.28   |
|                            |           | 1               | 19        | 22.05  | 21.96   | 22.00   |
|                            |           | 1               | 37        | 21.52  | 21.51   | 21.65   |
|                            |           | 19              | 0         | 22.25  | 22.23   | 22.13   |
|                            |           | 19              | 9         | 22.26  | 22.27   | 22.21   |
|                            |           | 19              | 20        | 22.05  | 21.96   | 21.94   |
|                            |           | 38              | 0         | 22.08  | 22.13   | 22.15   |
|                            | 256QAM    | 1               | 0         | 19.64  | 19.65   | 19.67   |
|                            |           | 1               | 19        | 19.30  | 19.49   | 19.31   |
|                            |           | 1               | 37        | 18.97  | 18.95   | 18.96   |
|                            |           | 19              | 0         | 19.55  | 19.54   | 19.67   |
|                            |           | 19              | 9         | 19.70  | 19.68   | 19.62   |
|                            |           | 19              | 20        | 19.44  | 19.40   | 19.49   |
|                            |           | 38              | 0         | 19.56  | 19.47   | 19.45   |

\*EIRP = Conducted + antenna gain

| FCC NR Band 41 (SCS 30kHz) |           |                 |           |         |         |        |
|----------------------------|-----------|-----------------|-----------|---------|---------|--------|
| BW                         | MCS Index | RB Size         | RB Offset | Low     | Mid     | High   |
|                            |           | Channel         |           | 500202  | 518598  | 537000 |
|                            |           | Frequency (MHz) |           | 2501.01 | 2592.99 | 2685   |
| 10M                        | pi/2 BPSK | 1               | 0         | 25.84   | 25.94   | 25.99  |
|                            |           | 1               | 12        | 25.70   | 25.80   | 25.63  |
|                            |           | 1               | 23        | 25.39   | 25.28   | 25.22  |
|                            |           | 12              | 0         | 25.94   | 25.84   | 25.91  |
|                            |           | 12              | 6         | 25.99   | 25.98   | 25.93  |
|                            |           | 12              | 12        | 25.67   | 25.72   | 25.67  |
|                            |           | 24              | 0         | 25.75   | 25.79   | 25.75  |
|                            | QPSK      | 1               | 0         | 22.82   | 22.89   | 22.99  |
|                            |           | 1               | 12        | 22.66   | 22.60   | 22.62  |
|                            |           | 1               | 23        | 22.29   | 22.35   | 22.33  |
|                            |           | 12              | 0         | 22.81   | 22.85   | 22.85  |
|                            |           | 12              | 6         | 22.83   | 22.81   | 22.81  |
|                            |           | 12              | 12        | 22.79   | 22.70   | 22.60  |
|                            |           | 24              | 0         | 22.80   | 22.81   | 22.81  |
|                            | 16QAM     | 1               | 0         | 22.65   | 22.64   | 22.56  |
|                            |           | 1               | 12        | 22.33   | 22.42   | 22.32  |
|                            |           | 1               | 23        | 22.10   | 21.98   | 22.01  |
|                            |           | 12              | 0         | 22.51   | 22.62   | 22.56  |
|                            |           | 12              | 6         | 22.58   | 22.61   | 22.52  |
|                            |           | 12              | 12        | 22.44   | 22.36   | 22.40  |
|                            |           | 24              | 0         | 22.54   | 22.47   | 22.50  |
|                            | 64QAM     | 1               | 0         | 22.27   | 22.11   | 22.27  |
|                            |           | 1               | 12        | 21.92   | 22.07   | 22.01  |
|                            |           | 1               | 23        | 21.53   | 21.55   | 21.62  |
|                            |           | 12              | 0         | 22.24   | 22.26   | 22.24  |
|                            |           | 12              | 6         | 22.16   | 22.10   | 22.23  |
|                            |           | 12              | 12        | 21.96   | 21.93   | 22.06  |
|                            |           | 24              | 0         | 22.04   | 22.08   | 22.20  |
|                            | 256QAM    | 1               | 0         | 19.63   | 19.61   | 19.51  |
|                            |           | 1               | 12        | 19.50   | 19.41   | 19.43  |
|                            |           | 1               | 23        | 19.03   | 19.07   | 19.07  |
|                            |           | 12              | 0         | 19.65   | 19.69   | 19.61  |
|                            |           | 12              | 6         | 19.56   | 19.61   | 19.63  |
|                            |           | 12              | 12        | 19.40   | 19.43   | 19.41  |
|                            |           | 24              | 0         | 19.54   | 19.41   | 19.51  |

\*EIRP = Conducted + antenna gain

# ERP Power (dBm)

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26865 | 26915 | 26965 |
|                       |           | Frequency (MHz) |           | 831.5 | 836.5 | 841.5 |
| 15M                   | QPSK      | 1               | 0         | 22.13 | 22.22 | 22.55 |
|                       |           | 1               | 37        | 21.97 | 22.18 | 22.40 |
|                       |           | 1               | 74        | 22.06 | 22.21 | 22.36 |
|                       |           | 36              | 0         | 20.99 | 22.19 | 21.51 |
|                       |           | 36              | 19        | 21.16 | 22.14 | 21.40 |
|                       |           | 36              | 39        | 21.04 | 22.19 | 21.46 |
|                       |           | 75              | 0         | 21.01 | 22.09 | 21.33 |
|                       | 16QAM     | 1               | 0         | 21.03 | 21.33 | 21.56 |
|                       |           | 1               | 37        | 20.96 | 21.17 | 21.56 |
|                       |           | 1               | 74        | 21.00 | 21.34 | 21.37 |
|                       |           | 36              | 0         | 20.13 | 21.25 | 20.55 |
|                       |           | 36              | 19        | 20.07 | 21.09 | 20.39 |
|                       |           | 36              | 39        | 20.03 | 21.07 | 20.42 |
|                       |           | 75              | 0         | 20.13 | 21.12 | 20.42 |
|                       | 64QAM     | 1               | 0         | 19.97 | 20.34 | 20.43 |
|                       |           | 1               | 37        | 20.00 | 20.21 | 20.37 |
|                       |           | 1               | 74        | 19.96 | 20.20 | 20.56 |
|                       |           | 36              | 0         | 18.97 | 20.12 | 19.51 |
|                       |           | 36              | 19        | 19.10 | 20.22 | 19.44 |
|                       |           | 36              | 39        | 19.04 | 20.10 | 19.50 |
|                       |           | 75              | 0         | 19.10 | 20.12 | 19.43 |
|                       | 256QAM    | 1               | 0         | 18.13 | 18.36 | 18.47 |
|                       |           | 1               | 37        | 18.06 | 18.19 | 18.37 |
|                       |           | 1               | 74        | 18.04 | 18.23 | 18.41 |
|                       |           | 36              | 0         | 17.05 | 18.16 | 17.52 |
|                       |           | 36              | 19        | 17.15 | 18.17 | 17.50 |
|                       |           | 36              | 39        | 17.09 | 18.07 | 17.40 |
|                       |           | 75              | 0         | 17.09 | 18.12 | 17.30 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26840 | 26915 | 26990 |
|                       |           | Frequency (MHz) |           | 829   | 836.5 | 844   |
| 10M                   | QPSK      | 1               | 0         | 22.06 | 22.32 | 22.37 |
|                       |           | 1               | 24        | 22.16 | 22.27 | 22.51 |
|                       |           | 1               | 49        | 22.13 | 22.28 | 22.53 |
|                       |           | 25              | 0         | 21.06 | 22.12 | 21.54 |
|                       |           | 25              | 12        | 21.15 | 22.20 | 21.54 |
|                       |           | 25              | 25        | 21.07 | 22.10 | 21.38 |
|                       |           | 50              | 0         | 21.06 | 22.18 | 21.40 |
|                       | 16QAM     | 1               | 0         | 21.11 | 21.19 | 21.37 |
|                       |           | 1               | 24        | 21.15 | 21.29 | 21.52 |
|                       |           | 1               | 49        | 21.09 | 21.36 | 21.51 |
|                       |           | 25              | 0         | 20.16 | 21.15 | 20.51 |
|                       |           | 25              | 12        | 20.02 | 21.11 | 20.40 |
|                       |           | 25              | 25        | 20.08 | 21.21 | 20.40 |
|                       |           | 50              | 0         | 20.01 | 21.25 | 20.36 |
|                       | 64QAM     | 1               | 0         | 20.13 | 20.22 | 20.43 |
|                       |           | 1               | 24        | 20.06 | 20.19 | 20.47 |
|                       |           | 1               | 49        | 20.15 | 20.17 | 20.54 |
|                       |           | 25              | 0         | 19.06 | 20.18 | 19.49 |
|                       |           | 25              | 12        | 18.99 | 20.08 | 19.54 |
|                       |           | 25              | 25        | 19.01 | 20.23 | 19.42 |
|                       |           | 50              | 0         | 18.97 | 20.07 | 19.42 |
|                       | 256QAM    | 1               | 0         | 18.12 | 18.17 | 18.54 |
|                       |           | 1               | 24        | 18.08 | 18.26 | 18.44 |
|                       |           | 1               | 49        | 18.13 | 18.31 | 18.44 |
|                       |           | 25              | 0         | 17.01 | 18.11 | 17.52 |
|                       |           | 25              | 12        | 17.02 | 18.17 | 17.48 |
|                       |           | 25              | 25        | 17.16 | 18.21 | 17.53 |
|                       |           | 50              | 0         | 17.07 | 18.06 | 17.35 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26815 | 26915 | 27015 |
|                       |           | Frequency (MHz) |           | 826.5 | 836.5 | 846.5 |
| 5M                    | QPSK      | 1               | 0         | 22.04 | 22.21 | 22.39 |
|                       |           | 1               | 12        | 22.12 | 22.24 | 22.51 |
|                       |           | 1               | 24        | 21.97 | 22.25 | 22.36 |
|                       |           | 12              | 0         | 21.01 | 22.12 | 21.54 |
|                       |           | 12              | 6         | 21.11 | 22.11 | 21.46 |
|                       |           | 12              | 13        | 21.04 | 22.19 | 21.55 |
|                       |           | 25              | 0         | 20.98 | 22.21 | 21.41 |
|                       | 16QAM     | 1               | 0         | 21.14 | 21.17 | 21.46 |
|                       |           | 1               | 12        | 21.13 | 21.33 | 21.52 |
|                       |           | 1               | 24        | 21.03 | 21.20 | 21.52 |
|                       |           | 12              | 0         | 20.12 | 21.24 | 20.38 |
|                       |           | 12              | 6         | 20.09 | 21.26 | 20.43 |
|                       |           | 12              | 13        | 20.11 | 21.24 | 20.53 |
|                       |           | 25              | 0         | 20.14 | 21.15 | 20.44 |
|                       | 64QAM     | 1               | 0         | 19.98 | 20.16 | 20.47 |
|                       |           | 1               | 12        | 20.16 | 20.33 | 20.49 |
|                       |           | 1               | 24        | 19.97 | 20.27 | 20.50 |
|                       |           | 12              | 0         | 19.13 | 20.15 | 19.48 |
|                       |           | 12              | 6         | 19.00 | 20.15 | 19.36 |
|                       |           | 12              | 13        | 19.11 | 20.09 | 19.51 |
|                       |           | 25              | 0         | 19.05 | 20.09 | 19.40 |
|                       | 256QAM    | 1               | 0         | 18.04 | 18.21 | 18.46 |
|                       |           | 1               | 12        | 18.06 | 18.17 | 18.38 |
|                       |           | 1               | 24        | 18.14 | 18.31 | 18.54 |
|                       |           | 12              | 0         | 16.97 | 18.12 | 17.37 |
|                       |           | 12              | 6         | 17.03 | 18.26 | 17.46 |
|                       |           | 12              | 13        | 17.13 | 18.23 | 17.43 |
|                       |           | 25              | 0         | 17.11 | 18.18 | 17.36 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26805 | 26915 | 27025 |
|                       |           | Frequency (MHz) |           | 825.5 | 836.5 | 847.5 |
| 3M                    | QPSK      | 1               | 0         | 21.97 | 22.17 | 22.49 |
|                       |           | 1               | 7         | 21.99 | 22.18 | 22.39 |
|                       |           | 1               | 14        | 22.03 | 22.32 | 22.36 |
|                       |           | 8               | 0         | 21.05 | 21.16 | 21.41 |
|                       |           | 8               | 3         | 20.99 | 21.14 | 21.39 |
|                       |           | 8               | 7         | 21.06 | 21.15 | 21.40 |
|                       |           | 15              | 0         | 20.93 | 20.97 | 21.48 |
|                       | 16QAM     | 1               | 0         | 21.14 | 21.10 | 21.53 |
|                       |           | 1               | 7         | 21.00 | 21.23 | 21.48 |
|                       |           | 1               | 14        | 21.10 | 21.21 | 21.31 |
|                       |           | 8               | 0         | 19.98 | 20.05 | 20.48 |
|                       |           | 8               | 3         | 19.99 | 20.14 | 20.50 |
|                       |           | 8               | 7         | 19.86 | 20.13 | 20.40 |
|                       |           | 15              | 0         | 20.03 | 20.09 | 20.49 |
|                       | 64QAM     | 1               | 0         | 20.06 | 20.16 | 20.51 |
|                       |           | 1               | 7         | 20.06 | 20.19 | 20.44 |
|                       |           | 1               | 14        | 20.01 | 20.25 | 20.45 |
|                       |           | 8               | 0         | 19.11 | 19.14 | 19.51 |
|                       |           | 8               | 3         | 19.02 | 18.97 | 19.49 |
|                       |           | 8               | 7         | 19.06 | 19.12 | 19.34 |
|                       |           | 15              | 0         | 18.98 | 19.14 | 19.42 |
|                       | 256QAM    | 1               | 0         | 18.15 | 18.23 | 18.49 |
|                       |           | 1               | 7         | 17.93 | 18.18 | 18.43 |
|                       |           | 1               | 14        | 18.13 | 18.25 | 18.38 |
|                       |           | 8               | 0         | 17.10 | 16.99 | 17.48 |
|                       |           | 8               | 3         | 17.14 | 17.02 | 17.50 |
|                       |           | 8               | 7         | 16.95 | 17.02 | 17.36 |
|                       |           | 15              | 0         | 16.88 | 16.97 | 17.36 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 22) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26797 | 26915 | 27033 |
|                       |           | Frequency (MHz) |           | 824.7 | 836.5 | 848.3 |
| 1.4M                  | QPSK      | 1               | 0         | 22.04 | 22.11 | 22.36 |
|                       |           | 1               | 2         | 22.04 | 22.23 | 22.54 |
|                       |           | 1               | 5         | 22.16 | 22.18 | 22.28 |
|                       |           | 3               | 0         | 21.05 | 21.02 | 21.36 |
|                       |           | 3               | 1         | 21.13 | 21.09 | 21.46 |
|                       |           | 3               | 3         | 21.03 | 21.11 | 21.41 |
|                       |           | 6               | 0         | 20.96 | 21.05 | 21.51 |
|                       | 16QAM     | 1               | 0         | 21.02 | 21.11 | 21.41 |
|                       |           | 1               | 2         | 20.94 | 21.21 | 21.41 |
|                       |           | 1               | 5         | 21.16 | 21.25 | 21.32 |
|                       |           | 3               | 0         | 19.98 | 20.00 | 20.44 |
|                       |           | 3               | 1         | 19.97 | 20.12 | 20.43 |
|                       |           | 3               | 3         | 20.00 | 20.05 | 20.36 |
|                       |           | 6               | 0         | 20.01 | 20.04 | 20.40 |
|                       | 64QAM     | 1               | 0         | 20.10 | 20.26 | 20.41 |
|                       |           | 1               | 2         | 20.03 | 20.22 | 20.48 |
|                       |           | 1               | 5         | 20.04 | 20.16 | 20.45 |
|                       |           | 3               | 0         | 19.06 | 19.01 | 19.56 |
|                       |           | 3               | 1         | 19.08 | 19.11 | 19.37 |
|                       |           | 3               | 3         | 19.01 | 19.09 | 19.27 |
|                       |           | 6               | 0         | 18.97 | 19.13 | 19.37 |
|                       | 256QAM    | 1               | 0         | 18.06 | 18.22 | 18.56 |
|                       |           | 1               | 2         | 18.03 | 18.16 | 18.52 |
|                       |           | 1               | 5         | 18.01 | 18.29 | 18.40 |
|                       |           | 3               | 0         | 16.97 | 17.07 | 17.49 |
|                       |           | 3               | 1         | 17.09 | 17.03 | 17.56 |
|                       |           | 3               | 3         | 16.90 | 17.12 | 17.39 |
|                       |           | 6               | 0         | 16.89 | 17.01 | 17.43 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 90) |           |                 |           |       |
|-----------------------|-----------|-----------------|-----------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Mid   |
|                       |           | Channel         |           | 26740 |
|                       |           | Frequency (MHz) |           | 819   |
| 10M                   | QPSK      | 1               | 0         | 22.28 |
|                       |           | 1               | 24        | 22.19 |
|                       |           | 1               | 49        | 22.35 |
|                       |           | 25              | 0         | 22.20 |
|                       |           | 25              | 12        | 22.26 |
|                       |           | 25              | 25        | 22.12 |
|                       |           | 50              | 0         | 22.09 |
|                       | 16QAM     | 1               | 0         | 21.18 |
|                       |           | 1               | 24        | 21.35 |
|                       |           | 1               | 49        | 21.29 |
|                       |           | 25              | 0         | 21.09 |
|                       |           | 25              | 12        | 21.22 |
|                       |           | 25              | 25        | 21.22 |
|                       |           | 50              | 0         | 21.19 |
|                       | 64QAM     | 1               | 0         | 20.20 |
|                       |           | 1               | 24        | 20.23 |
|                       |           | 1               | 49        | 20.27 |
|                       |           | 25              | 0         | 20.17 |
|                       |           | 25              | 12        | 20.25 |
|                       |           | 25              | 25        | 20.18 |
|                       |           | 50              | 0         | 20.17 |
|                       | 256QAM    | 1               | 0         | 18.23 |
|                       |           | 1               | 24        | 18.21 |
|                       |           | 1               | 49        | 18.26 |
|                       |           | 25              | 0         | 18.12 |
|                       |           | 25              | 12        | 18.21 |
|                       |           | 25              | 25        | 18.11 |
|                       |           | 50              | 0         | 18.09 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 90) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26715 | 26740 | 26765 |
|                       |           | Frequency (MHz) |           | 816.5 | 819   | 821.5 |
| 5M                    | QPSK      | 1               | 0         | 22.13 | 22.18 | 22.52 |
|                       |           | 1               | 12        | 21.96 | 22.23 | 22.50 |
|                       |           | 1               | 24        | 22.14 | 22.30 | 22.38 |
|                       |           | 12              | 0         | 21.11 | 22.22 | 21.53 |
|                       |           | 12              | 6         | 21.03 | 22.15 | 21.51 |
|                       |           | 12              | 13        | 21.10 | 22.10 | 21.41 |
|                       |           | 25              | 0         | 20.97 | 22.25 | 21.37 |
|                       | 16QAM     | 1               | 0         | 21.03 | 21.26 | 21.50 |
|                       |           | 1               | 12        | 21.04 | 21.16 | 21.48 |
|                       |           | 1               | 24        | 20.97 | 21.36 | 21.40 |
|                       |           | 12              | 0         | 20.08 | 21.06 | 20.42 |
|                       |           | 12              | 6         | 20.14 | 21.12 | 20.56 |
|                       |           | 12              | 13        | 20.16 | 21.08 | 20.54 |
|                       |           | 25              | 0         | 20.08 | 21.12 | 20.28 |
|                       | 64QAM     | 1               | 0         | 20.06 | 20.18 | 20.42 |
|                       |           | 1               | 12        | 20.12 | 20.20 | 20.55 |
|                       |           | 1               | 24        | 20.08 | 20.17 | 20.43 |
|                       |           | 12              | 0         | 19.13 | 20.07 | 19.37 |
|                       |           | 12              | 6         | 19.08 | 20.15 | 19.42 |
|                       |           | 12              | 13        | 18.97 | 20.06 | 19.45 |
|                       |           | 25              | 0         | 19.10 | 20.24 | 19.33 |
|                       | 256QAM    | 1               | 0         | 17.99 | 18.36 | 18.53 |
|                       |           | 1               | 12        | 18.13 | 18.25 | 18.53 |
|                       |           | 1               | 24        | 17.97 | 18.17 | 18.42 |
|                       |           | 12              | 0         | 17.13 | 18.18 | 17.53 |
|                       |           | 12              | 6         | 17.06 | 18.19 | 17.39 |
|                       |           | 12              | 13        | 16.98 | 18.10 | 17.56 |
|                       |           | 25              | 0         | 17.11 | 18.25 | 17.36 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 90) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26705 | 26740 | 26775 |
|                       |           | Frequency (MHz) |           | 815.5 | 819   | 822.5 |
| 3M                    | QPSK      | 1               | 0         | 22.13 | 22.10 | 22.43 |
|                       |           | 1               | 7         | 22.04 | 22.09 | 22.52 |
|                       |           | 1               | 14        | 22.11 | 22.34 | 22.38 |
|                       |           | 8               | 0         | 21.00 | 20.97 | 21.41 |
|                       |           | 8               | 3         | 20.96 | 20.99 | 21.50 |
|                       |           | 8               | 7         | 21.03 | 20.96 | 21.30 |
|                       |           | 15              | 0         | 20.88 | 21.01 | 21.52 |
|                       | 16QAM     | 1               | 0         | 21.15 | 21.19 | 21.54 |
|                       |           | 1               | 7         | 21.05 | 21.19 | 21.51 |
|                       |           | 1               | 14        | 21.14 | 21.26 | 21.37 |
|                       |           | 8               | 0         | 20.01 | 20.02 | 20.41 |
|                       |           | 8               | 3         | 20.12 | 20.13 | 20.39 |
|                       |           | 8               | 7         | 19.95 | 20.16 | 20.35 |
|                       |           | 15              | 0         | 19.99 | 20.05 | 20.38 |
|                       | 64QAM     | 1               | 0         | 20.08 | 20.06 | 20.40 |
|                       |           | 1               | 7         | 19.90 | 20.06 | 20.44 |
|                       |           | 1               | 14        | 19.99 | 20.26 | 20.31 |
|                       |           | 8               | 0         | 19.15 | 19.04 | 19.49 |
|                       |           | 8               | 3         | 18.99 | 18.98 | 19.38 |
|                       |           | 8               | 7         | 18.89 | 19.15 | 19.40 |
|                       |           | 15              | 0         | 18.92 | 19.07 | 19.50 |
|                       | 256QAM    | 1               | 0         | 17.96 | 18.22 | 18.54 |
|                       |           | 1               | 7         | 17.97 | 18.20 | 18.46 |
|                       |           | 1               | 14        | 17.99 | 18.16 | 18.37 |
|                       |           | 8               | 0         | 17.12 | 17.02 | 17.46 |
|                       |           | 8               | 3         | 17.13 | 17.09 | 17.42 |
|                       |           | 8               | 7         | 17.04 | 17.09 | 17.31 |
|                       |           | 15              | 0         | 17.01 | 17.04 | 17.40 |

\*ERP = Conducted + antenna gain - 2.15

| LTE Band 26 (Part 90) |           |                 |           |       |       |       |
|-----------------------|-----------|-----------------|-----------|-------|-------|-------|
| BW                    | MCS Index | RB Size         | RB Offset | Low   | Mid   | High  |
|                       |           | Channel         |           | 26697 | 26740 | 26783 |
|                       |           | Frequency (MHz) |           | 814.7 | 819   | 823.3 |
| 1.4M                  | QPSK      | 1               | 0         | 21.98 | 22.21 | 22.51 |
|                       |           | 1               | 2         | 21.97 | 22.06 | 22.38 |
|                       |           | 1               | 5         | 22.10 | 22.21 | 22.31 |
|                       |           | 3               | 0         | 21.07 | 21.07 | 21.50 |
|                       |           | 3               | 1         | 21.14 | 21.01 | 21.36 |
|                       |           | 3               | 3         | 21.03 | 21.07 | 21.31 |
|                       |           | 6               | 0         | 20.93 | 21.10 | 21.44 |
|                       | 16QAM     | 1               | 0         | 21.06 | 21.13 | 21.46 |
|                       |           | 1               | 2         | 20.86 | 21.13 | 21.45 |
|                       |           | 1               | 5         | 21.15 | 21.17 | 21.40 |
|                       |           | 3               | 0         | 19.99 | 19.98 | 20.51 |
|                       |           | 3               | 1         | 20.02 | 20.11 | 20.41 |
|                       |           | 3               | 3         | 19.95 | 20.11 | 20.26 |
|                       |           | 6               | 0         | 19.93 | 19.99 | 20.41 |
|                       | 64QAM     | 1               | 0         | 20.13 | 20.24 | 20.47 |
|                       |           | 1               | 2         | 19.89 | 20.11 | 20.55 |
|                       |           | 1               | 5         | 20.03 | 20.30 | 20.34 |
|                       |           | 3               | 0         | 19.10 | 19.13 | 19.55 |
|                       |           | 3               | 1         | 19.07 | 19.03 | 19.45 |
|                       |           | 3               | 3         | 18.97 | 19.05 | 19.40 |
|                       |           | 6               | 0         | 19.06 | 19.10 | 19.52 |
|                       | 256QAM    | 1               | 0         | 18.11 | 18.22 | 18.43 |
|                       |           | 1               | 2         | 18.04 | 18.24 | 18.39 |
|                       |           | 1               | 5         | 18.15 | 18.20 | 18.36 |
|                       |           | 3               | 0         | 17.08 | 17.01 | 17.55 |
|                       |           | 3               | 1         | 16.98 | 17.05 | 17.48 |
|                       |           | 3               | 3         | 17.04 | 17.02 | 17.44 |
|                       |           | 6               | 0         | 16.99 | 17.09 | 17.37 |

\*ERP = Conducted + antenna gain - 2.15

## 4.2 Modulation Characteristics Measurement

### 4.2.1 Limits of Modulation Characteristics

N/A

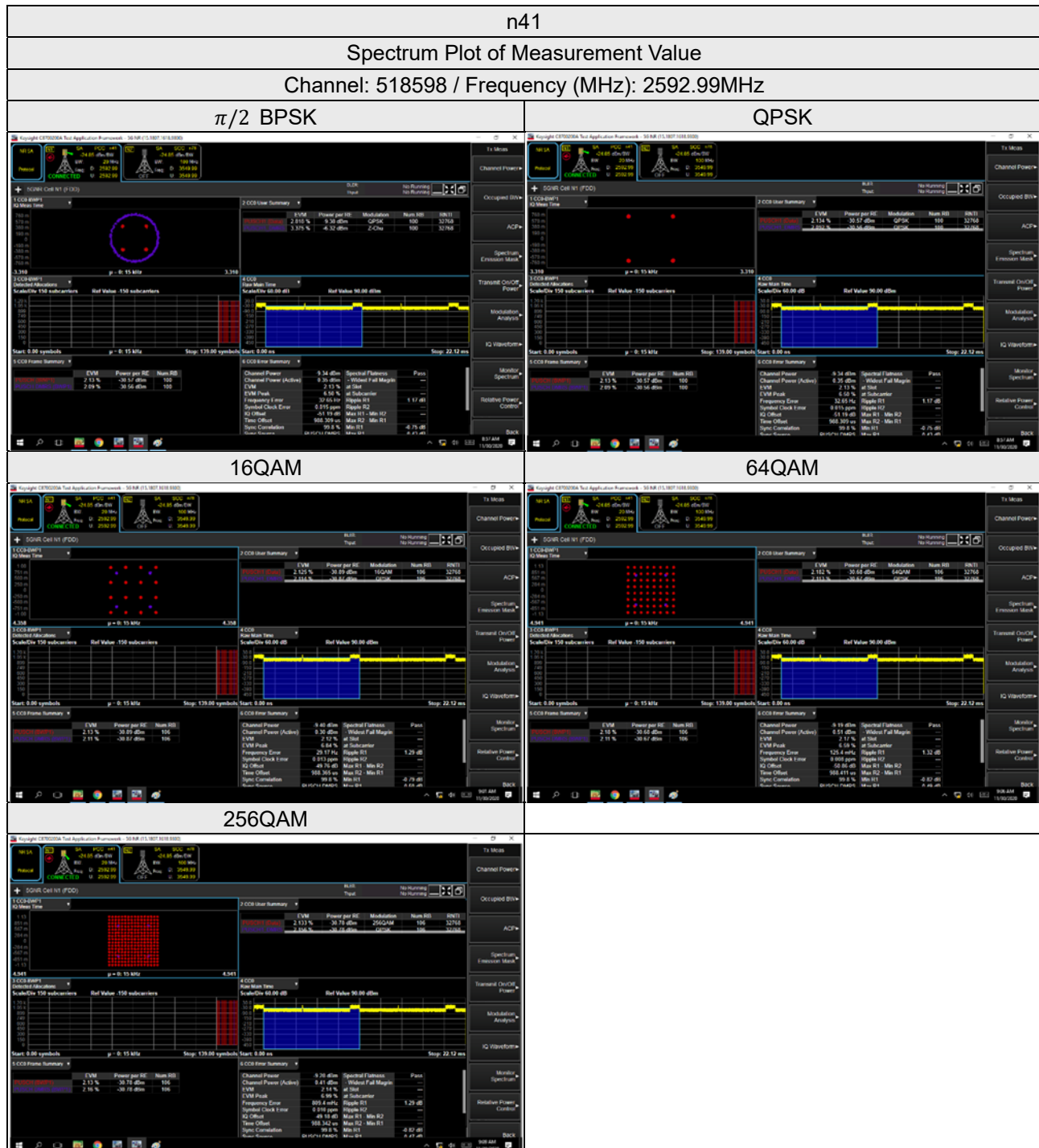
### 4.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

### 4.2.3 Test Setup



## 4.2.4 Test Results



### 4.3 Frequency Stability Measurement

#### 4.3.1 Limits of Frequency Stability Measurement

For n41:

According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT  $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$ .

For LTE Band 26:

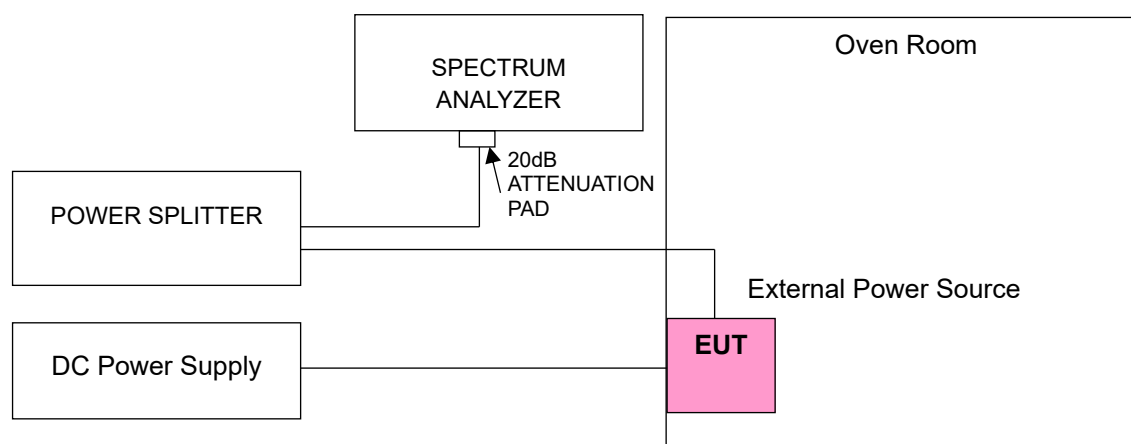
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

#### 4.3.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.

#### 4.3.3 Test Setup



#### 4.3.4 Test Results

##### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 10 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2501.010003               | 0.001                 | 2685.000000     | -0.001                |
| 4.2                | 2501.010003               | 0.001                 | 2685.000000     | 0.000                 |
| 4.4                | 2501.010002               | 0.001                 | 2685.000000     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

##### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 10 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2501.010002               | 0.001                 | 2685.000000     | 0.001                 |
| -20        | 2501.010003               | 0.001                 | 2685.000000     | 0.001                 |
| -10        | 2501.010003               | 0.001                 | 2685.000000     | 0.001                 |
| 0          | 2501.010002               | 0.001                 | 2685.000000     | 0.000                 |
| 10         | 2501.009997               | -0.001                | 2685.000000     | 0.000                 |
| 20         | 2501.009997               | -0.001                | 2685.000000     | 0.001                 |
| 30         | 2501.009997               | -0.001                | 2685.000000     | 0.001                 |
| 40         | 2501.009996               | -0.002                | 2685.000000     | -0.001                |
| 50         | 2501.009997               | -0.001                | 2685.000000     | 0.000                 |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 15 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2503.500003               | 0.001                 | 2682.480000     | -0.001                |
| 4.2                | 2503.500004               | 0.001                 | 2682.480000     | 0.000                 |
| 4.4                | 2503.500001               | 0.000                 | 2682.480000     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 15 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2503.500003               | 0.001                 | 2682.480000     | 0.001                 |
| -20        | 2503.500004               | 0.001                 | 2682.480000     | 0.000                 |
| -10        | 2503.500002               | 0.001                 | 2682.480000     | 0.001                 |
| 0          | 2503.500003               | 0.001                 | 2682.480000     | 0.001                 |
| 10         | 2503.499997               | -0.001                | 2682.480000     | 0.001                 |
| 20         | 2503.499999               | -0.001                | 2682.480000     | 0.001                 |
| 30         | 2503.499998               | -0.001                | 2682.480000     | 0.001                 |
| 40         | 2503.499997               | -0.001                | 2682.480000     | -0.001                |
| 50         | 2503.499996               | -0.002                | 2682.480000     | -0.001                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 20 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2506.020002               | 0.001                 | 2679.990000     | -0.001                |
| 4.2                | 2506.020002               | 0.001                 | 2679.990000     | -0.001                |
| 4.4                | 2506.020003               | 0.001                 | 2679.990000     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 20 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2506.020003               | 0.001                 | 2679.990000     | 0.001                 |
| -20        | 2506.020004               | 0.002                 | 2679.990000     | 0.001                 |
| -10        | 2506.020003               | 0.001                 | 2679.990000     | 0.001                 |
| 0          | 2506.020002               | 0.001                 | 2679.990000     | 0.001                 |
| 10         | 2506.019998               | -0.001                | 2679.990000     | 0.001                 |
| 20         | 2506.019998               | -0.001                | 2679.990000     | 0.000                 |
| 30         | 2506.019997               | -0.001                | 2679.990000     | 0.001                 |
| 40         | 2506.019999               | -0.001                | 2679.990000     | -0.001                |
| 50         | 2506.019999               | -0.001                | 2679.990000     | -0.001                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 40 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2516.010004               | 0.002                 | 2669.999999     | 0.000                 |
| 4.2                | 2516.010004               | 0.001                 | 2669.999996     | -0.001                |
| 4.4                | 2516.010004               | 0.001                 | 2669.999998     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 40 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2516.010003               | 0.001                 | 2670.000002     | 0.001                 |
| -20        | 2516.010003               | 0.001                 | 2670.000002     | 0.001                 |
| -10        | 2516.010001               | 0.000                 | 2670.000004     | 0.001                 |
| 0          | 2516.010004               | 0.001                 | 2670.000002     | 0.001                 |
| 10         | 2516.009996               | -0.001                | 2670.000004     | 0.001                 |
| 20         | 2516.009997               | -0.001                | 2670.000003     | 0.001                 |
| 30         | 2516.009999               | 0.000                 | 2670.000001     | 0.000                 |
| 40         | 2516.009999               | -0.001                | 2669.999999     | -0.001                |
| 50         | 2516.009998               | -0.001                | 2669.999997     | -0.001                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 50 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2521.020002               | 0.001                 | 2664.989997     | -0.001                |
| 4.2                | 2521.020003               | 0.001                 | 2664.989997     | -0.001                |
| 4.4                | 2521.020002               | 0.001                 | 2664.989997     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 50 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2521.020004               | 0.001                 | 2664.990003     | 0.001                 |
| -20        | 2521.020003               | 0.001                 | 2664.990003     | 0.001                 |
| -10        | 2521.020003               | 0.001                 | 2664.990003     | 0.001                 |
| 0          | 2521.020002               | 0.001                 | 2664.990003     | 0.001                 |
| 10         | 2521.019996               | -0.002                | 2664.990002     | 0.001                 |
| 20         | 2521.019998               | -0.001                | 2664.990003     | 0.001                 |
| 30         | 2521.019999               | -0.001                | 2664.990003     | 0.001                 |
| 40         | 2521.019997               | -0.001                | 2664.989999     | 0.000                 |
| 50         | 2521.019997               | -0.001                | 2664.989997     | -0.001                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 60 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2526.000003               | 0.001                 | 2659.979997     | -0.001                |
| 4.2                | 2526.000003               | 0.001                 | 2659.979996     | -0.001                |
| 4.4                | 2526.000003               | 0.001                 | 2659.979998     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 60 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2526.000002               | 0.001                 | 2659.980003     | 0.001                 |
| -20        | 2526.000004               | 0.002                 | 2659.980001     | 0.000                 |
| -10        | 2526.000004               | 0.001                 | 2659.980002     | 0.001                 |
| 0          | 2526.000001               | 0.000                 | 2659.980004     | 0.001                 |
| 10         | 2525.999996               | -0.001                | 2659.980004     | 0.001                 |
| 20         | 2525.999999               | 0.000                 | 2659.980003     | 0.001                 |
| 30         | 2525.999997               | -0.001                | 2659.980001     | 0.000                 |
| 40         | 2525.999998               | -0.001                | 2659.979997     | -0.001                |
| 50         | 2525.999999               | 0.000                 | 2659.979996     | -0.001                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 80 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2526.000001               | 0.001                 | 2659.979996     | -0.001                |
| 4.2                | 2526.000004               | 0.001                 | 2659.979999     | 0.000                 |
| 4.4                | 2526.000003               | 0.001                 | 2659.979996     | -0.001                |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 80 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2526.000003               | 0.001                 | 2659.980001     | 0.000                 |
| -20        | 2526.000003               | 0.001                 | 2659.980004     | 0.001                 |
| -10        | 2526.000002               | 0.001                 | 2659.980004     | 0.001                 |
| 0          | 2526.000003               | 0.001                 | 2659.980002     | 0.001                 |
| 10         | 2525.999998               | -0.001                | 2659.980002     | 0.001                 |
| 20         | 2525.999997               | -0.001                | 2659.980003     | 0.001                 |
| 30         | 2525.999997               | -0.001                | 2659.980002     | 0.001                 |
| 40         | 2525.999996               | -0.001                | 2659.979997     | -0.001                |
| 50         | 2525.999999               | -0.001                | 2659.979998     | -0.001                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                       |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 90 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2514.000003               | 0.001                 | 2644.979997     | -0.001                |
| 4.2                | 2514.000003               | 0.001                 | 2644.979998     | -0.001                |
| 4.4                | 2514.000004               | 0.001                 | 2644.979999     | 0.000                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | n41                       |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 90 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2514.000002               | 0.001                 | 2644.980003     | 0.001                 |
| -20        | 2514.000002               | 0.001                 | 2644.980001     | 0.001                 |
| -10        | 2514.000001               | 0.000                 | 2644.980004     | 0.001                 |
| 0          | 2514.000003               | 0.001                 | 2644.980001     | 0.000                 |
| 10         | 2513.999999               | -0.001                | 2644.980002     | 0.001                 |
| 20         | 2513.999998               | -0.001                | 2644.980003     | 0.001                 |
| 30         | 2513.999997               | -0.001                | 2644.980004     | 0.001                 |
| 40         | 2513.999998               | -0.001                | 2644.979998     | -0.001                |
| 50         | 2513.999998               | -0.001                | 2644.979998     | -0.001                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | n41                        |                       |                 |                       |
|--------------------|----------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 100 MHz |                       |                 |                       |
|                    | Low Channel                |                       | High Channel    |                       |
|                    | Frequency (MHz)            | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 2546.010002                | 0.001                 | 2639.999999     | -0.001                |
| 4.2                | 2546.010004                | 0.002                 | 2639.999997     | -0.001                |
| 4.4                | 2546.010001                | 0.001                 | 2639.999999     | 0.000                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | n41                        |                       |                 |                       |
|------------|----------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 100 MHz |                       |                 |                       |
|            | Low Channel                |                       | High Channel    |                       |
|            | Frequency (MHz)            | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 2546.010002                | 0.001                 | 2640.000003     | 0.001                 |
| -20        | 2546.010001                | 0.000                 | 2640.000004     | 0.001                 |
| -10        | 2546.010003                | 0.001                 | 2640.000003     | 0.001                 |
| 0          | 2546.010003                | 0.001                 | 2640.000001     | 0.000                 |
| 10         | 2546.009997                | -0.001                | 2640.000004     | 0.001                 |
| 20         | 2546.009999                | -0.001                | 2640.000003     | 0.001                 |
| 30         | 2546.009997                | -0.001                | 2640.000002     | 0.001                 |
| 40         | 2546.009999                | -0.001                | 2639.999998     | -0.001                |
| 50         | 2546.009996                | -0.002                | 2639.999998     | -0.001                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 22)      |                       |                 |                       |
|--------------------|----------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 1.4 MHz |                       |                 |                       |
|                    | Low Channel                |                       | High Channel    |                       |
|                    | Frequency (MHz)            | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 824.700001                 | 0.001                 | 848.300004      | 0.004                 |
| 4.2                | 824.700004                 | 0.004                 | 848.300002      | 0.002                 |
| 4.4                | 824.700002                 | 0.002                 | 848.300004      | 0.004                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 22)      |                       |                 |                       |
|------------|----------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 1.4 MHz |                       |                 |                       |
|            | Low Channel                |                       | High Channel    |                       |
|            | Frequency (MHz)            | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 824.700004                 | 0.004                 | 848.300003      | 0.004                 |
| -20        | 824.700002                 | 0.002                 | 848.300002      | 0.003                 |
| -10        | 824.700001                 | 0.001                 | 848.300004      | 0.004                 |
| 0          | 824.700001                 | 0.002                 | 848.300001      | 0.001                 |
| 10         | 824.700002                 | 0.003                 | 848.300003      | 0.003                 |
| 20         | 824.699998                 | -0.003                | 848.299998      | -0.002                |
| 30         | 824.699999                 | -0.001                | 848.299998      | -0.003                |
| 40         | 824.699998                 | -0.002                | 848.299996      | -0.004                |
| 50         | 824.699997                 | -0.004                | 848.299998      | -0.003                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 22)    |                       |                 |                       |
|--------------------|--------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 3 MHz |                       |                 |                       |
|                    | Low Channel              |                       | High Channel    |                       |
|                    | Frequency (MHz)          | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 825.500003               | 0.003                 | 847.500002      | 0.002                 |
| 4.2                | 825.500001               | 0.002                 | 847.500003      | 0.003                 |
| 4.4                | 825.500001               | 0.002                 | 847.500003      | 0.003                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 22)    |                       |                 |                       |
|------------|--------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 3 MHz |                       |                 |                       |
|            | Low Channel              |                       | High Channel    |                       |
|            | Frequency (MHz)          | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 825.500003               | 0.003                 | 847.500003      | 0.004                 |
| -20        | 825.500004               | 0.005                 | 847.500003      | 0.003                 |
| -10        | 825.500002               | 0.003                 | 847.500002      | 0.002                 |
| 0          | 825.500003               | 0.004                 | 847.500003      | 0.004                 |
| 10         | 825.500003               | 0.004                 | 847.500003      | 0.004                 |
| 20         | 825.499997               | -0.004                | 847.499996      | -0.005                |
| 30         | 825.499996               | -0.005                | 847.499998      | -0.002                |
| 40         | 825.499998               | -0.002                | 847.499998      | -0.002                |
| 50         | 825.499998               | -0.003                | 847.499997      | -0.003                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 22)    |                       |                 |                       |
|--------------------|--------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 5 MHz |                       |                 |                       |
|                    | Low Channel              |                       | High Channel    |                       |
|                    | Frequency (MHz)          | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 826.500004               | 0.004                 | 846.500004      | 0.004                 |
| 4.2                | 826.500003               | 0.003                 | 846.500004      | 0.005                 |
| 4.4                | 826.500001               | 0.002                 | 846.500002      | 0.002                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 22)    |                       |                 |                       |
|------------|--------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 5 MHz |                       |                 |                       |
|            | Low Channel              |                       | High Channel    |                       |
|            | Frequency (MHz)          | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 826.500003               | 0.003                 | 846.500004      | 0.004                 |
| -20        | 826.500003               | 0.004                 | 846.500002      | 0.003                 |
| -10        | 826.500003               | 0.004                 | 846.500003      | 0.004                 |
| 0          | 826.500002               | 0.002                 | 846.500003      | 0.004                 |
| 10         | 826.500001               | 0.001                 | 846.500004      | 0.004                 |
| 20         | 826.499997               | -0.003                | 846.499997      | -0.003                |
| 30         | 826.499997               | -0.004                | 846.499998      | -0.003                |
| 40         | 826.499999               | -0.001                | 846.499998      | -0.002                |
| 50         | 826.499999               | -0.001                | 846.499997      | -0.003                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 22)     |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 10 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 829.000002                | 0.002                 | 844.000001      | 0.002                 |
| 4.2                | 829.000002                | 0.002                 | 844.000003      | 0.003                 |
| 4.4                | 829.000001                | 0.001                 | 844.000003      | 0.003                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 22)     |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 10 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 829.000002                | 0.002                 | 844.000003      | 0.003                 |
| -20        | 829.000002                | 0.002                 | 844.000004      | 0.004                 |
| -10        | 829.000004                | 0.004                 | 844.000003      | 0.003                 |
| 0          | 829.000002                | 0.003                 | 844.000001      | 0.001                 |
| 10         | 829.000003                | 0.004                 | 844.000002      | 0.003                 |
| 20         | 828.999999                | -0.002                | 843.999998      | -0.003                |
| 30         | 828.999998                | -0.003                | 843.999997      | -0.003                |
| 40         | 828.999999                | -0.001                | 843.999996      | -0.004                |
| 50         | 828.999997                | -0.004                | 843.999998      | -0.002                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 22)     |                       |                 |                       |
|--------------------|---------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 15 MHz |                       |                 |                       |
|                    | Low Channel               |                       | High Channel    |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 831.500003                | 0.004                 | 841.500003      | 0.004                 |
| 4.2                | 831.500002                | 0.003                 | 841.500003      | 0.003                 |
| 4.4                | 831.500004                | 0.004                 | 841.500003      | 0.003                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 22)     |                       |                 |                       |
|------------|---------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 15 MHz |                       |                 |                       |
|            | Low Channel               |                       | High Channel    |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 831.500003                | 0.003                 | 841.500002      | 0.002                 |
| -20        | 831.500003                | 0.004                 | 841.500002      | 0.003                 |
| -10        | 831.500003                | 0.003                 | 841.500003      | 0.003                 |
| 0          | 831.500004                | 0.005                 | 841.500004      | 0.005                 |
| 10         | 831.500004                | 0.005                 | 841.500001      | 0.002                 |
| 20         | 831.499996                | -0.004                | 841.499997      | -0.004                |
| 30         | 831.499996                | -0.005                | 841.499997      | -0.004                |
| 40         | 831.499999                | -0.002                | 841.499998      | -0.003                |
| 50         | 831.499996                | -0.004                | 841.499998      | -0.003                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 90)      |                       |                 |                       |
|--------------------|----------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 1.4 MHz |                       |                 |                       |
|                    | Low Channel                |                       | High Channel    |                       |
|                    | Frequency (MHz)            | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 814.700003                 | 0.004                 | 823.300003      | 0.004                 |
| 4.2                | 814.700003                 | 0.004                 | 823.300001      | 0.002                 |
| 4.4                | 814.700002                 | 0.003                 | 823.300002      | 0.002                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 90)      |                       |                 |                       |
|------------|----------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 1.4 MHz |                       |                 |                       |
|            | Low Channel                |                       | High Channel    |                       |
|            | Frequency (MHz)            | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 814.700004                 | 0.004                 | 823.300002      | 0.002                 |
| -20        | 814.700003                 | 0.003                 | 823.300003      | 0.004                 |
| -10        | 814.700002                 | 0.002                 | 823.300001      | 0.001                 |
| 0          | 814.700004                 | 0.005                 | 823.300004      | 0.005                 |
| 10         | 814.700002                 | 0.003                 | 823.300001      | 0.002                 |
| 20         | 814.699996                 | -0.005                | 823.299997      | -0.004                |
| 30         | 814.699999                 | -0.002                | 823.299997      | -0.004                |
| 40         | 814.699999                 | -0.001                | 823.299997      | -0.003                |
| 50         | 814.699999                 | -0.002                | 823.299999      | -0.002                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 90)   |                       |                 |                       |
|--------------------|-------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 3MHz |                       |                 |                       |
|                    | Low Channel             |                       | High Channel    |                       |
|                    | Frequency (MHz)         | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 815.500004              | 0.004                 | 822.500002      | 0.003                 |
| 4.2                | 815.500002              | 0.002                 | 822.500002      | 0.003                 |
| 4.4                | 815.500001              | 0.001                 | 822.500004      | 0.004                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 90)   |                       |                 |                       |
|------------|-------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 3MHz |                       |                 |                       |
|            | Low Channel             |                       | High Channel    |                       |
|            | Frequency (MHz)         | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 815.500002              | 0.003                 | 822.500001      | 0.001                 |
| -20        | 815.500003              | 0.003                 | 822.500003      | 0.004                 |
| -10        | 815.500003              | 0.004                 | 822.500001      | 0.001                 |
| 0          | 815.500001              | 0.002                 | 822.500002      | 0.002                 |
| 10         | 815.500004              | 0.004                 | 822.500003      | 0.004                 |
| 20         | 815.499999              | -0.002                | 822.499997      | -0.004                |
| 30         | 815.499996              | -0.005                | 822.499998      | -0.002                |
| 40         | 815.499996              | -0.005                | 822.499997      | -0.004                |
| 50         | 815.499998              | -0.003                | 822.499996      | -0.004                |

#### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 90)   |                       |                 |                       |
|--------------------|-------------------------|-----------------------|-----------------|-----------------------|
|                    | Channel Bandwidth: 5MHz |                       |                 |                       |
|                    | Low Channel             |                       | High Channel    |                       |
|                    | Frequency (MHz)         | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 4.0                | 816.500003              | 0.004                 | 821.500002      | 0.002                 |
| 4.2                | 816.500004              | 0.004                 | 821.500003      | 0.004                 |
| 4.4                | 816.500002              | 0.003                 | 821.500003      | 0.004                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

#### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 90)   |                       |                 |                       |
|------------|-------------------------|-----------------------|-----------------|-----------------------|
|            | Channel Bandwidth: 5MHz |                       |                 |                       |
|            | Low Channel             |                       | High Channel    |                       |
|            | Frequency (MHz)         | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30        | 816.500003              | 0.003                 | 821.500002      | 0.002                 |
| -20        | 816.500004              | 0.004                 | 821.500002      | 0.002                 |
| -10        | 816.500002              | 0.003                 | 821.500002      | 0.003                 |
| 0          | 816.500001              | 0.001                 | 821.500004      | 0.004                 |
| 10         | 816.500003              | 0.004                 | 821.500002      | 0.002                 |
| 20         | 816.499996              | -0.005                | 821.499998      | -0.003                |
| 30         | 816.499996              | -0.005                | 821.499996      | -0.005                |
| 40         | 816.499997              | -0.004                | 821.499999      | -0.001                |
| 50         | 816.499997              | -0.004                | 821.499998      | -0.002                |

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | LTE Band 26 (Part 90)     |                       |
|--------------------|---------------------------|-----------------------|
|                    | Channel Bandwidth: 10 MHz |                       |
|                    | Frequency (MHz)           | Frequency Error (ppm) |
| 4.0                | 819.000004                | 0.004                 |
| 4.2                | 819.000004                | 0.004                 |
| 4.4                | 819.000001                | 0.001                 |

Note: The applicant defined the normal working voltage is from 4.2Vdc to 4.4Vdc.

### Frequency Error vs. Temperature

| Temp. (°C) | LTE Band 26 (Part 90)     |                       |
|------------|---------------------------|-----------------------|
|            | Channel Bandwidth: 10 MHz |                       |
|            | Frequency (MHz)           | Frequency Error (ppm) |
| -30        | 819.000001                | 0.001                 |
| -20        | 819.000001                | 0.001                 |
| -10        | 819.000002                | 0.003                 |
| 0          | 819.000001                | 0.002                 |
| 10         | 819.000002                | 0.003                 |
| 20         | 818.999997                | -0.004                |
| 30         | 818.999998                | -0.003                |
| 40         | 818.999996                | -0.005                |
| 50         | 818.999998                | -0.003                |

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Limits of Occupied Bandwidth Measurement

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

### 4.4.2 Test Procedure

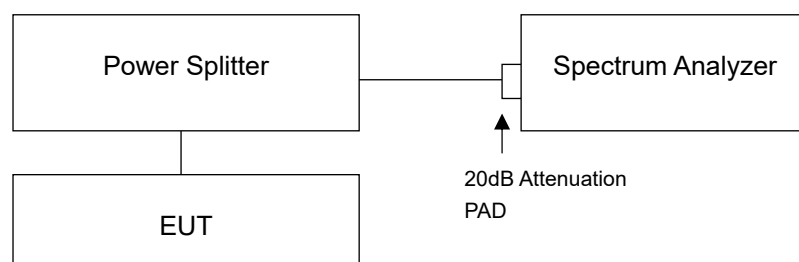
Occupied Bandwidth

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. Measurement method refers to ANSI C63.26 section 5.4.4.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

26dBc Bandwidth:

For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

### 4.4.3 Test Setup



#### 4.4.4 Test Result

##### Occupied Bandwidth

| n41, Channel Bandwidth: 10MHz |                 |                              |       |       |       |        |
|-------------------------------|-----------------|------------------------------|-------|-------|-------|--------|
| Channel                       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 500202                        | 2501.01         | 8.57                         | 8.58  | 8.56  | 8.53  | 8.54   |
| 518598                        | 2592.99         | 8.57                         | 8.58  | 8.57  | 8.53  | 8.54   |
| 537000                        | 2685.00         | 8.57                         | 8.58  | 8.57  | 8.54  | 8.54   |
| n41, Channel Bandwidth: 15MHz |                 |                              |       |       |       |        |
| Channel                       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 500700                        | 2503.50         | 12.84                        | 12.86 | 12.83 | 12.80 | 12.82  |
| 518598                        | 2592.99         | 12.84                        | 12.86 | 12.83 | 12.81 | 12.82  |
| 536496                        | 2682.48         | 12.83                        | 12.86 | 12.84 | 12.81 | 12.82  |
| n41, Channel Bandwidth: 20MHz |                 |                              |       |       |       |        |
| Channel                       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 501204                        | 2506.02         | 17.85                        | 17.85 | 17.83 | 17.80 | 17.83  |
| 518598                        | 2592.99         | 17.85                        | 17.86 | 17.84 | 17.80 | 17.83  |
| 535998                        | 2679.99         | 17.83                        | 17.85 | 17.83 | 17.80 | 17.82  |
| n41, Channel Bandwidth: 40MHz |                 |                              |       |       |       |        |
| Channel                       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 503202                        | 2516.01         | 35.69                        | 35.72 | 35.68 | 35.64 | 35.67  |
| 518598                        | 2592.99         | 35.70                        | 35.74 | 35.70 | 35.68 | 35.69  |
| 534000                        | 2670.00         | 35.61                        | 35.67 | 35.64 | 35.60 | 35.62  |
| n41, Channel Bandwidth: 50MHz |                 |                              |       |       |       |        |
| Channel                       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 504204                        | 2521.02         | 45.58                        | 45.62 | 45.56 | 45.54 | 45.57  |
| 518598                        | 2592.99         | 45.62                        | 45.67 | 45.61 | 45.60 | 45.62  |
| 532998                        | 2664.99         | 45.55                        | 45.49 | 45.49 | 45.46 | 45.49  |

| n41, Channel Bandwidth: 60MHz  |                 |                              |       |       |       |        |
|--------------------------------|-----------------|------------------------------|-------|-------|-------|--------|
| Channel                        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 505200                         | 2526.00         | 57.63                        | 57.61 | 57.58 | 57.61 | 57.61  |
| 518598                         | 2592.99         | 57.72                        | 57.71 | 57.69 | 57.70 | 57.71  |
| 531996                         | 2659.98         | 57.49                        | 57.50 | 57.47 | 57.49 | 57.50  |
| n41, Channel Bandwidth: 80MHz  |                 |                              |       |       |       |        |
| Channel                        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 507204                         | 2536.02         | 76.80                        | 76.75 | 76.75 | 76.75 | 76.75  |
| 518598                         | 2592.99         | 76.99                        | 76.97 | 77.00 | 77.05 | 76.97  |
| 529998                         | 2649.99         | 76.66                        | 76.64 | 76.63 | 76.59 | 76.68  |
| n41, Channel Bandwidth: 90MHz  |                 |                              |       |       |       |        |
| Channel                        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 508200                         | 2514.00         | 85.23                        | 85.28 | 85.21 | 85.21 | 85.23  |
| 518598                         | 2592.99         | 85.52                        | 85.52 | 85.49 | 85.49 | 85.52  |
| 528996                         | 2644.98         | 85.21                        | 85.18 | 85.18 | 85.20 | 85.21  |
| n41, Channel Bandwidth: 100MHz |                 |                              |       |       |       |        |
| Channel                        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK                 | QPSK  | 16QAM | 64QAM | 256QAM |
| 509202                         | 2546.01         | 95.77                        | 95.74 | 95.75 | 95.81 | 95.83  |
| 518598                         | 2592.99         | 96.13                        | 96.19 | 96.18 | 96.18 | 96.21  |
| 528000                         | 2640.00         | 95.91                        | 95.81 | 95.76 | 95.82 | 95.85  |

## Spectrum Plot of Worst Value

### 10MHz / QPSK



### 15MHz / QPSK



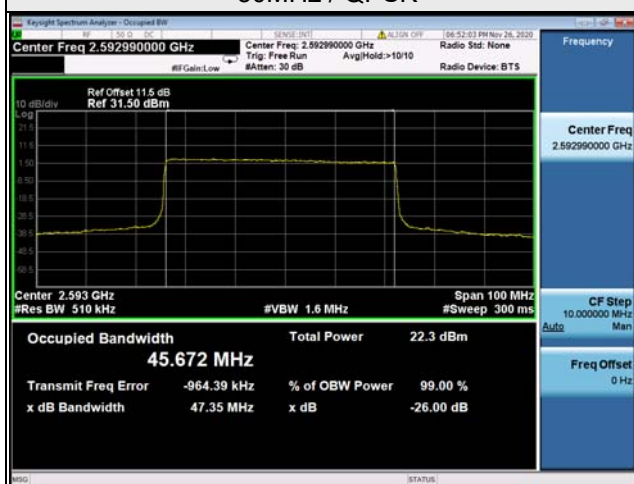
### 20MHz / QPSK



### 40MHz / QPSK



### 50MHz / QPSK



### 60MHz / $\pi/2$ BPSK



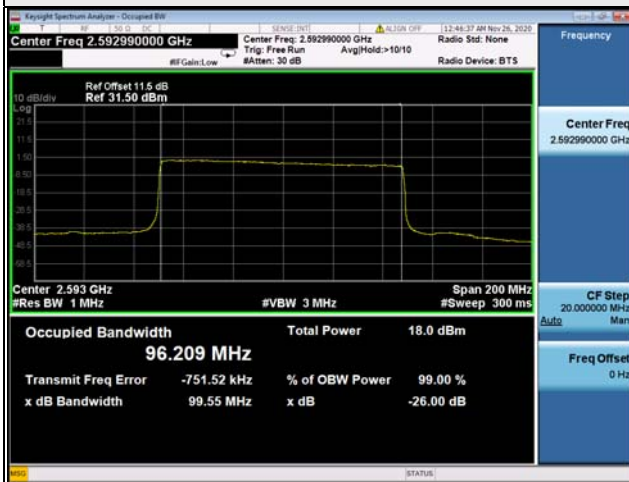
### 80MHz / 64QAM



### 90MHz / QPSK



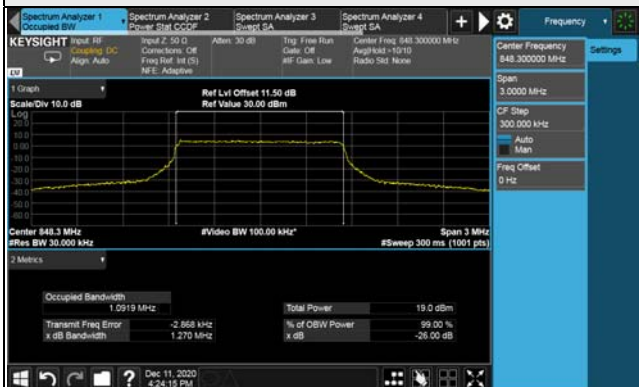
### 100MHz / 256QAM



| LTE Band 26 (Part 22), Channel Bandwidth: 1.4MHz |                 |                              |       |       |        |
|--------------------------------------------------|-----------------|------------------------------|-------|-------|--------|
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26797                                            | 824.7           | 1.08                         | 1.09  | 1.08  | 1.09   |
| 26915                                            | 836.5           | 1.08                         | 1.09  | 1.08  | 1.09   |
| 27033                                            | 848.3           | 1.09                         | 1.08  | 1.09  | 1.09   |
| LTE Band 26 (Part 22), Channel Bandwidth: 3MHz   |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26805                                            | 825.5           | 2.68                         | 2.68  | 2.68  | 2.69   |
| 26915                                            | 836.5           | 2.68                         | 2.68  | 2.68  | 2.69   |
| 27025                                            | 847.5           | 2.68                         | 2.68  | 2.68  | 2.68   |
| LTE Band 26 (Part 22), Channel Bandwidth: 5MHz   |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26815                                            | 826.5           | 4.49                         | 4.50  | 4.49  | 4.50   |
| 26915                                            | 836.5           | 4.49                         | 4.50  | 4.49  | 4.50   |
| 27015                                            | 846.5           | 4.49                         | 4.49  | 4.49  | 4.49   |
| LTE Band 26 (Part 22), Channel Bandwidth: 10MHz  |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26840                                            | 829.0           | 8.97                         | 8.97  | 8.97  | 8.97   |
| 26915                                            | 836.5           | 8.98                         | 8.98  | 8.98  | 8.98   |
| 26990                                            | 844.0           | 8.97                         | 8.96  | 8.96  | 8.96   |
| LTE Band 26 (Part 22), Channel Bandwidth: 15MHz  |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26865                                            | 831.5           | 13.43                        | 13.43 | 13.42 | 13.43  |
| 26915                                            | 836.5           | 13.44                        | 13.43 | 13.44 | 13.44  |
| 26965                                            | 841.5           | 13.43                        | 13.42 | 13.41 | 13.43  |

## Spectrum Plot of Worst Value

1.4MHz / 256QAM



3MHz / 256QAM



5MHz / 16QAM



10MHz / 16QAM



15MHz / QPSK



| LTE Band 26 (Part 90), Channel Bandwidth: 1.4MHz |                 |                              |       |       |        |
|--------------------------------------------------|-----------------|------------------------------|-------|-------|--------|
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26697                                            | 814.7           | 1.09                         | 1.09  | 1.09  | 1.09   |
| 26740                                            | 819.0           | 1.09                         | 1.09  | 1.08  | 1.09   |
| 26783                                            | 823.3           | 1.09                         | 1.08  | 1.09  | 1.09   |
| LTE Band 26 (Part 90), Channel Bandwidth: 3MHz   |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26705                                            | 815.5           | 2.68                         | 2.69  | 2.68  | 2.69   |
| 26740                                            | 819.0           | 2.68                         | 2.68  | 2.68  | 2.69   |
| 26775                                            | 822.5           | 2.68                         | 2.69  | 2.68  | 2.69   |
| LTE Band 26 (Part 90), Channel Bandwidth: 5MHz   |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26715                                            | 816.5           | 4.50                         | 4.49  | 4.50  | 4.49   |
| 26740                                            | 819.0           | 4.50                         | 4.49  | 4.50  | 4.49   |
| 26765                                            | 821.5           | 4.50                         | 4.50  | 4.50  | 4.49   |
| LTE Band 26 (Part 90), Channel Bandwidth: 10MHz  |                 |                              |       |       |        |
| Channel                                          | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                         | 16QAM | 64QAM | 256QAM |
| 26740                                            | 819.0           | 8.97                         | 8.97  | 8.97  | 8.97   |

## Spectrum Plot of Worst Value

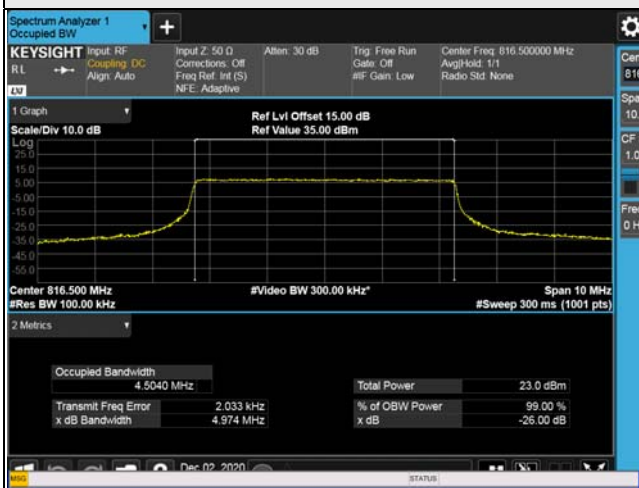
1.4MHz / QPSK



3MHz / 256QAM



5MHz / 64QAM



10MHz / QPSK



## 26dB Bandwidth

| n41, Channel Bandwidth: 10MHz |                 |                      |       |       |       |        |
|-------------------------------|-----------------|----------------------|-------|-------|-------|--------|
| Channel                       | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 500202                        | 2501.01         | 9.23                 | 9.32  | 9.28  | 9.14  | 9.13   |
| 518598                        | 2592.99         | 9.18                 | 9.30  | 9.31  | 9.12  | 9.16   |
| 537000                        | 2685.00         | 9.23                 | 9.31  | 9.43  | 9.26  | 9.13   |
| n41, Channel Bandwidth: 15MHz |                 |                      |       |       |       |        |
| Channel                       | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 500700                        | 2503.50         | 13.56                | 13.66 | 13.53 | 13.61 | 13.61  |
| 518598                        | 2592.99         | 13.55                | 13.68 | 13.52 | 13.59 | 13.59  |
| 536496                        | 2682.48         | 13.54                | 13.72 | 13.58 | 13.66 | 13.58  |
| n41, Channel Bandwidth: 20MHz |                 |                      |       |       |       |        |
| Channel                       | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 501204                        | 2506.02         | 18.60                | 18.67 | 18.83 | 18.61 | 18.71  |
| 518598                        | 2592.99         | 18.61                | 18.65 | 18.77 | 18.61 | 18.67  |
| 535998                        | 2679.99         | 18.60                | 18.62 | 18.74 | 18.63 | 18.64  |
| n41, Channel Bandwidth: 40MHz |                 |                      |       |       |       |        |
| Channel                       | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 503202                        | 2516.01         | 37.13                | 37.16 | 37.16 | 37.10 | 37.12  |
| 518598                        | 2592.99         | 37.12                | 37.11 | 37.11 | 37.07 | 37.08  |
| 534000                        | 2670.00         | 37.09                | 37.09 | 37.10 | 37.05 | 37.05  |
| n41, Channel Bandwidth: 50MHz |                 |                      |       |       |       |        |
| Channel                       | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                               |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 504204                        | 2521.02         | 47.34                | 47.36 | 47.39 | 47.34 | 47.36  |
| 518598                        | 2592.99         | 47.34                | 47.35 | 47.41 | 47.33 | 47.36  |
| 532998                        | 2664.99         | 47.31                | 47.29 | 47.33 | 47.30 | 47.30  |

| n41, Channel Bandwidth: 60MHz  |                 |                      |       |       |       |        |
|--------------------------------|-----------------|----------------------|-------|-------|-------|--------|
| Channel                        | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 505200                         | 2526.00         | 59.86                | 59.79 | 59.86 | 59.79 | 59.83  |
| 518598                         | 2592.99         | 59.87                | 59.83 | 59.87 | 59.83 | 59.86  |
| 531996                         | 2659.98         | 59.82                | 59.77 | 59.82 | 59.77 | 59.82  |
| n41, Channel Bandwidth: 80MHz  |                 |                      |       |       |       |        |
| Channel                        | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 507204                         | 2536.02         | 79.66                | 79.69 | 79.70 | 79.70 | 79.69  |
| 518598                         | 2592.99         | 79.72                | 79.75 | 79.75 | 79.73 | 79.74  |
| 529998                         | 2649.99         | 79.68                | 79.70 | 79.67 | 79.68 | 79.70  |
| n41, Channel Bandwidth: 90MHz  |                 |                      |       |       |       |        |
| Channel                        | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 508200                         | 2514.00         | 88.52                | 88.55 | 88.51 | 88.46 | 88.53  |
| 518598                         | 2592.99         | 88.56                | 88.64 | 88.63 | 88.52 | 88.58  |
| 528996                         | 2644.98         | 88.53                | 88.59 | 88.60 | 88.50 | 88.57  |
| n41, Channel Bandwidth: 100MHz |                 |                      |       |       |       |        |
| Channel                        | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |       |        |
|                                |                 | $\pi/2$ BPSK         | QPSK  | 16QAM | 64QAM | 256QAM |
| 509202                         | 2546.01         | 99.50                | 99.47 | 99.46 | 99.46 | 99.50  |
| 518598                         | 2592.99         | 99.52                | 99.55 | 99.58 | 99.55 | 99.55  |
| 528000                         | 2640.00         | 99.55                | 99.55 | 99.53 | 99.59 | 99.52  |

## Spectrum Plot of Worst Value

### 10MHz / 16QAM



### 15MHz / QPSK



### 20MHz / 16QAM



### 40MHz / 16QAM



### 50MHz / 16QAM



### 60MHz / 16QAM



### 80MHz / 16QAM



### 90MHz / QPSK



### 100MHz / 64QAM



| LTE Band 26 (Part 22), Channel Bandwidth: 1.4MHz |                 |                      |       |       |        |
|--------------------------------------------------|-----------------|----------------------|-------|-------|--------|
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26797                                            | 824.7           | 1.25                 | 1.27  | 1.27  | 1.28   |
| 26915                                            | 836.5           | 1.24                 | 1.26  | 1.28  | 1.28   |
| 27033                                            | 848.3           | 1.26                 | 1.26  | 1.28  | 1.27   |
| LTE Band 26 (Part 22), Channel Bandwidth: 3MHz   |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26805                                            | 825.5           | 2.94                 | 2.94  | 2.93  | 2.93   |
| 26915                                            | 836.5           | 2.91                 | 2.93  | 2.93  | 2.90   |
| 27025                                            | 847.5           | 2.90                 | 2.90  | 2.91  | 2.90   |
| LTE Band 26 (Part 22), Channel Bandwidth: 5MHz   |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26815                                            | 826.5           | 4.96                 | 4.95  | 4.95  | 4.99   |
| 26915                                            | 836.5           | 4.94                 | 4.93  | 4.97  | 4.93   |
| 27015                                            | 846.5           | 4.89                 | 4.93  | 4.91  | 4.90   |
| LTE Band 26 (Part 22), Channel Bandwidth: 10MHz  |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26840                                            | 829.0           | 9.62                 | 9.60  | 9.66  | 9.69   |
| 26915                                            | 836.5           | 9.63                 | 9.65  | 9.64  | 9.71   |
| 26990                                            | 844.0           | 9.58                 | 9.54  | 9.59  | 9.62   |
| LTE Band 26 (Part 22), Channel Bandwidth: 15MHz  |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26865                                            | 831.5           | 14.27                | 14.25 | 14.27 | 14.26  |
| 26915                                            | 836.5           | 14.27                | 14.29 | 14.26 | 14.26  |
| 26965                                            | 841.5           | 14.25                | 14.29 | 14.28 | 14.26  |

## Spectrum Plot of Worst Value

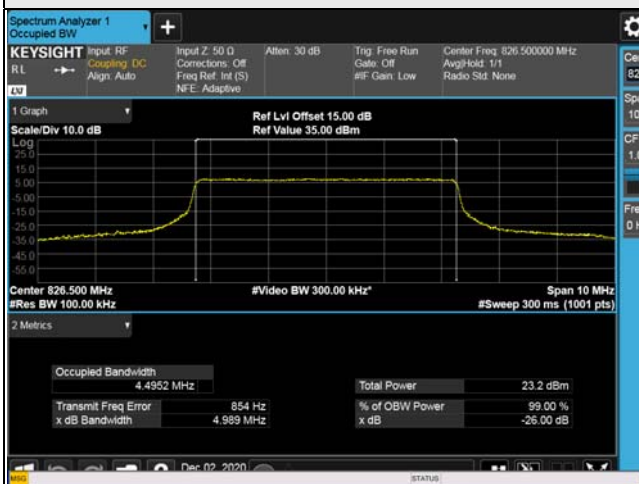
1.4MHz / 256QAM



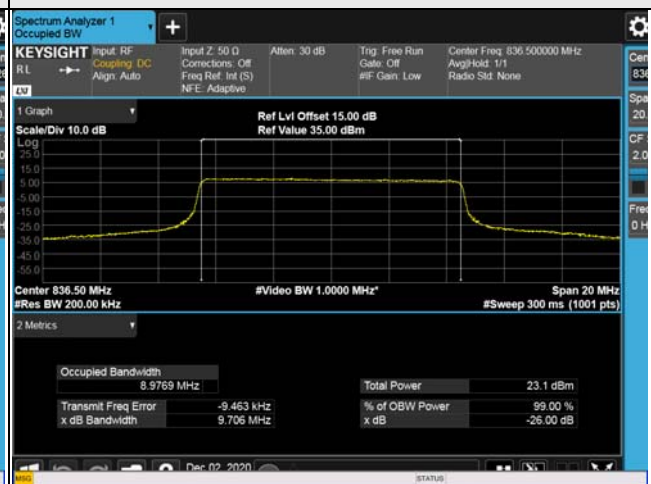
3MHz / 16QAM



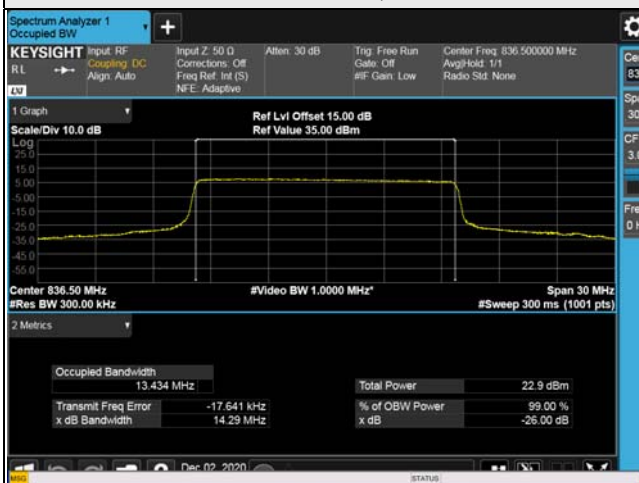
5MHz / 256QAM



10MHz / 256QAM



15MHz / 16QAM



| LTE Band 26 (Part 90), Channel Bandwidth: 1.4MHz |                 |                      |       |       |        |
|--------------------------------------------------|-----------------|----------------------|-------|-------|--------|
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26697                                            | 814.7           | 1.27                 | 1.27  | 1.28  | 1.29   |
| 26740                                            | 819.0           | 1.26                 | 1.28  | 1.27  | 1.29   |
| 26783                                            | 823.3           | 1.27                 | 1.27  | 1.28  | 1.27   |
| LTE Band 26 (Part 90), Channel Bandwidth: 3MHz   |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26705                                            | 815.5           | 2.94                 | 2.93  | 2.94  | 2.93   |
| 26740                                            | 819.0           | 2.90                 | 2.88  | 2.94  | 2.95   |
| 26775                                            | 822.5           | 2.91                 | 2.91  | 2.92  | 2.94   |
| LTE Band 26 (Part 90), Channel Bandwidth: 5MHz   |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26715                                            | 816.5           | 4.88                 | 4.93  | 4.97  | 4.92   |
| 26740                                            | 819.0           | 4.91                 | 4.98  | 4.95  | 4.95   |
| 26765                                            | 821.5           | 4.89                 | 4.98  | 5.00  | 4.92   |
| LTE Band 26 (Part 90), Channel Bandwidth: 10MHz  |                 |                      |       |       |        |
| Channel                                          | Frequency (MHz) | 26dB Bandwidth (MHz) |       |       |        |
|                                                  |                 | QPSK                 | 16QAM | 64QAM | 256QAM |
| 26740                                            | 819.0           | 9.61                 | 9.67  | 9.61  | 9.60   |

## Spectrum Plot of Worst Value

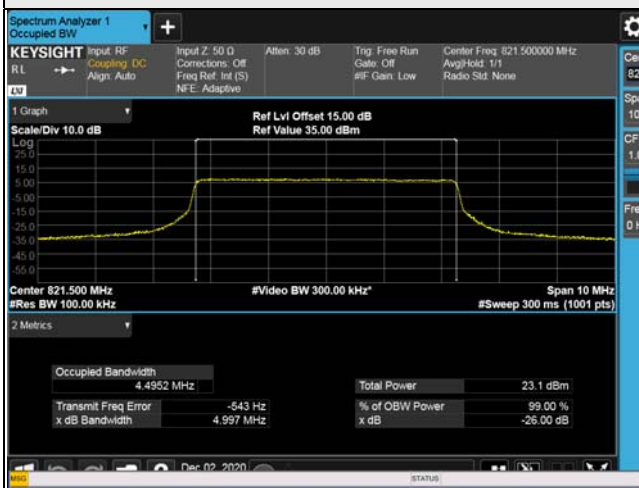
1.4MHz / 256QAM



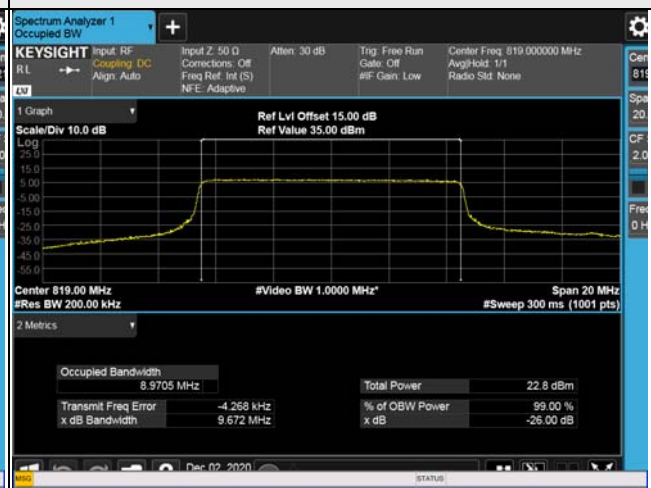
3MHz / 256QAM



5MHz / 64QAM



10MHz / 16QAM



## 4.5 Band Edge Measurement

### 4.5.1 Limits of Band Edge Measurement

For n41:

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a 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. In addition, the attenuation factor shall not be less that  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For LTE Band 26 (Part 22):

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

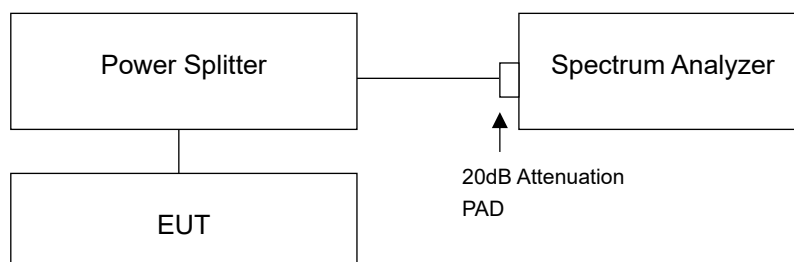
LTE Band 26 (Part 90):

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For § 90.691(a), RBW=300 Hz for offset less than 37.5 kHz from channel edge and RBW=100 kHz for offsets greater than 37.5 kHz is allowed, tested in accordance with FCC KDB 971168 D02 section VIII.

### 4.5.2 Test Setup



#### 4.5.3 Test Procedures

For n41, LTE Band 26 (Part 90):

- a. The testing follows ANSI C63.26 section 5.7
- b. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- c. The band edges of low and high channels for the highest RF powers were measured.
- d. Set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- f. Set spectrum analyzer with RMS detector.
- g. Checked that all the results comply with the emission limit line.

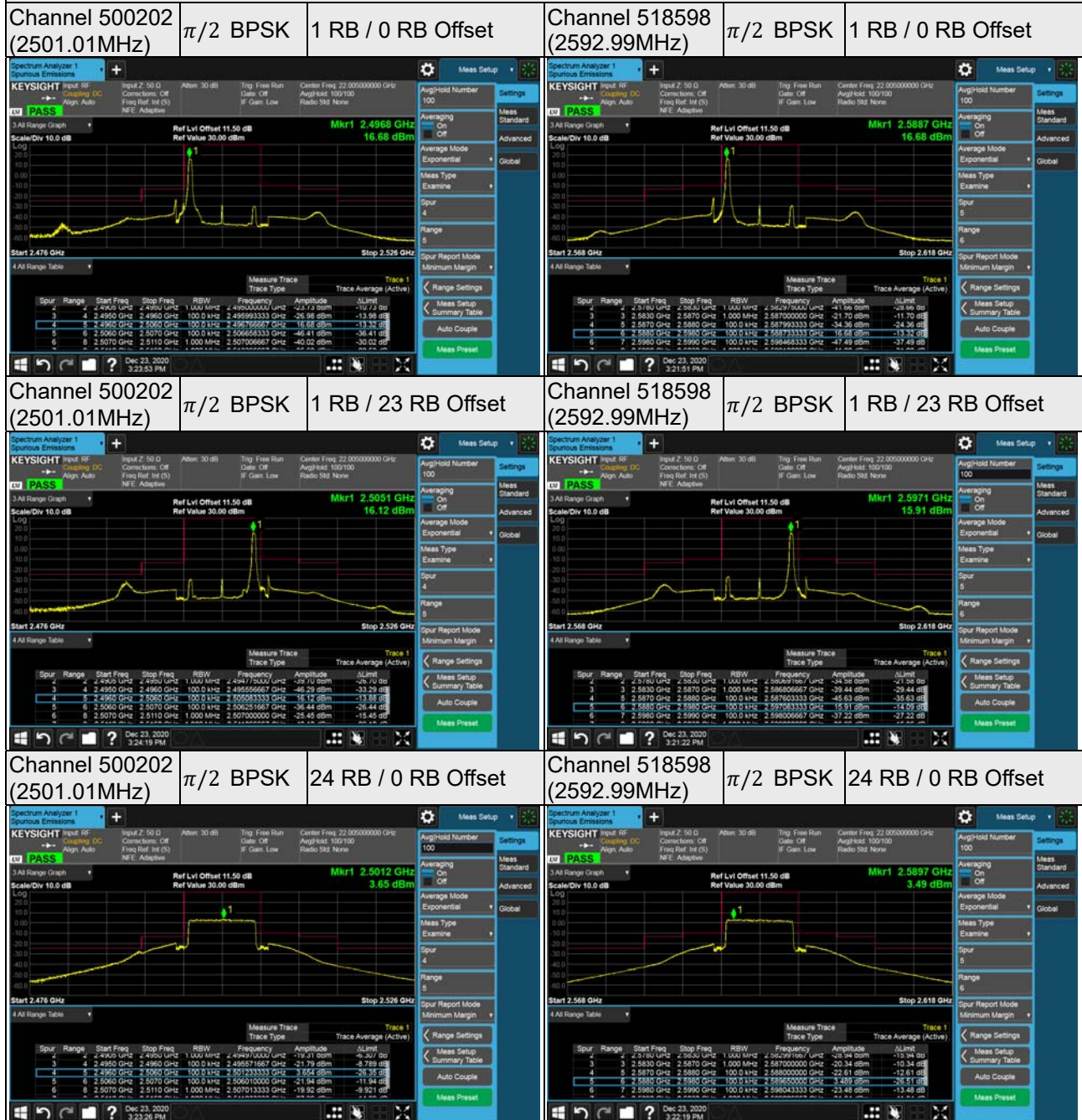
For LTE Band 26 (Part 90):

- a. The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Record the test plot.

## 4.5.4 Test Results

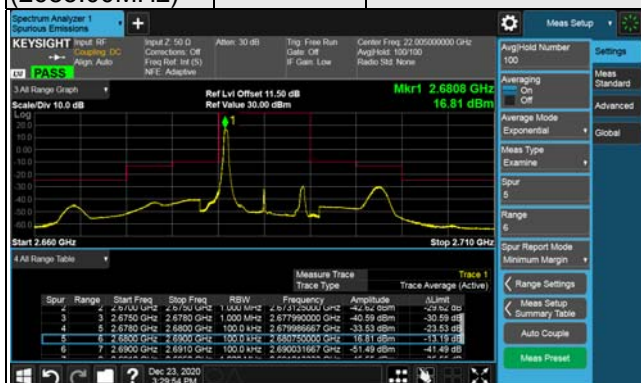
### Emission Mask

n41, Channel Bandwidth: 10MHz

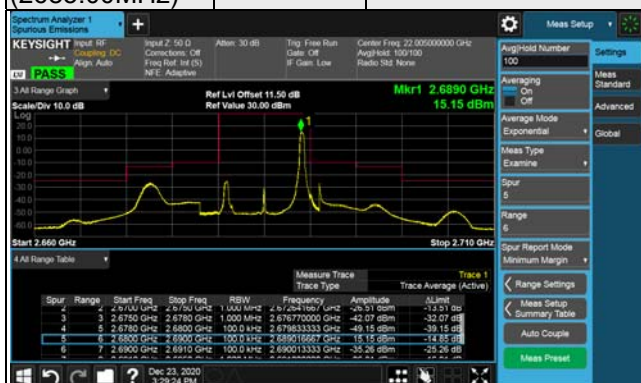


n41, Channel Bandwidth: 10MHz

Channel 537000 (2685.00MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



Channel 537000 (2685.00MHz)  $\pi/2$  BPSK 1 RB / 23 RB Offset

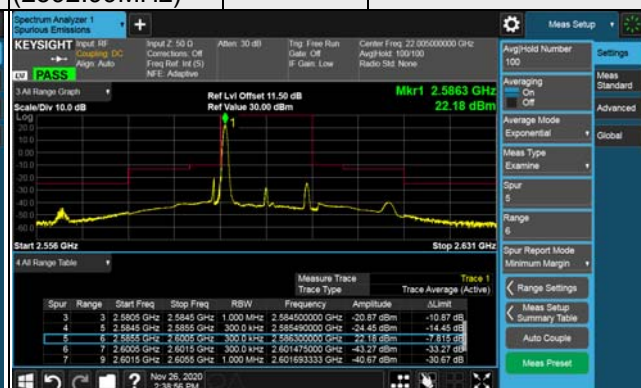
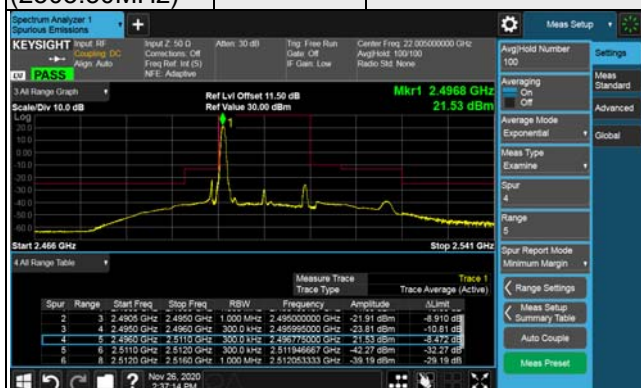


Channel 537000 (2685.00MHz)  $\pi/2$  BPSK 24 RB / 0 RB Offset

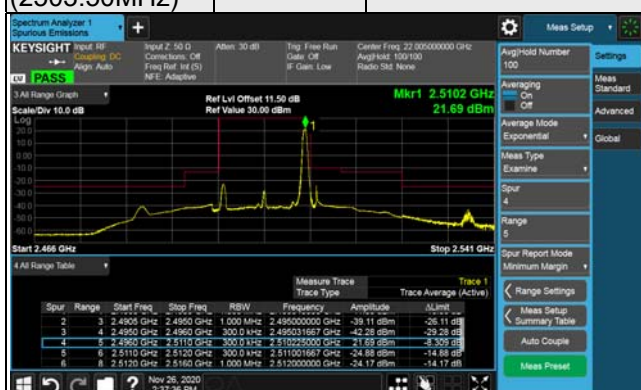


n41, Channel Bandwidth: 15MHz

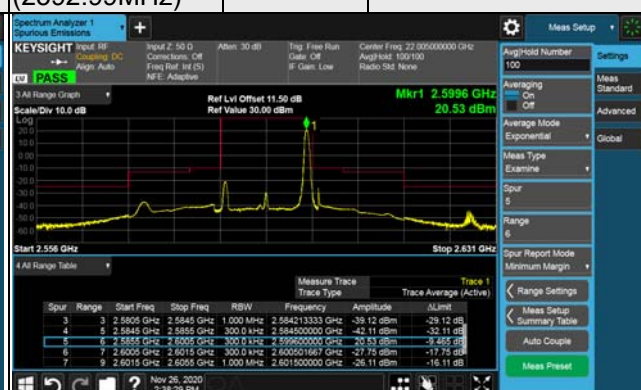
|                                |              |                    |                                |              |                    |
|--------------------------------|--------------|--------------------|--------------------------------|--------------|--------------------|
| Channel 500700<br>(2503.50MHz) | $\pi/2$ BPSK | 1 RB / 0 RB Offset | Channel 518598<br>(2592.99MHz) | $\pi/2$ BPSK | 1 RB / 0 RB Offset |
|--------------------------------|--------------|--------------------|--------------------------------|--------------|--------------------|



|                                |              |                     |
|--------------------------------|--------------|---------------------|
| Channel 500700<br>(2503.50MHz) | $\pi/2$ BPSK | 1 RB / 37 RB Offset |
|--------------------------------|--------------|---------------------|



|                                |              |                     |
|--------------------------------|--------------|---------------------|
| Channel 518598<br>(2592.99MHz) | $\pi/2$ BPSK | 1 RB / 37 RB Offset |
|--------------------------------|--------------|---------------------|



|                                |              |                     |
|--------------------------------|--------------|---------------------|
| Channel 500700<br>(2503.50MHz) | $\pi/2$ BPSK | 38 RB / 0 RB Offset |
|--------------------------------|--------------|---------------------|

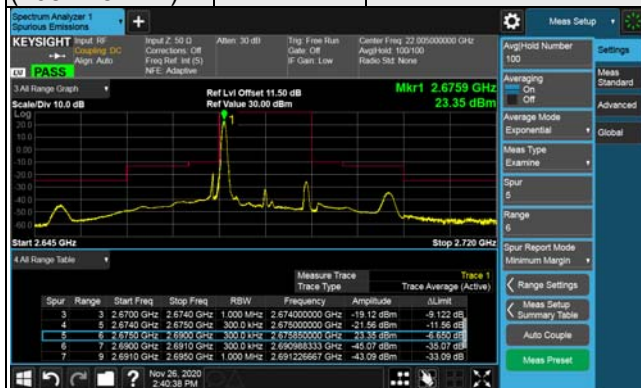


|                                |              |                     |
|--------------------------------|--------------|---------------------|
| Channel 518598<br>(2592.99MHz) | $\pi/2$ BPSK | 38 RB / 0 RB Offset |
|--------------------------------|--------------|---------------------|

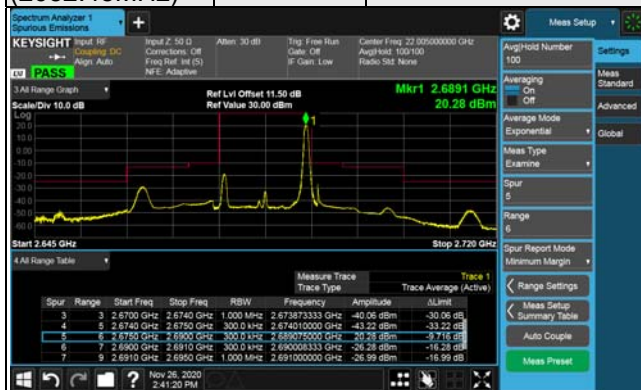


n41, Channel Bandwidth: 15MHz

Channel 536496  
(2682.48MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



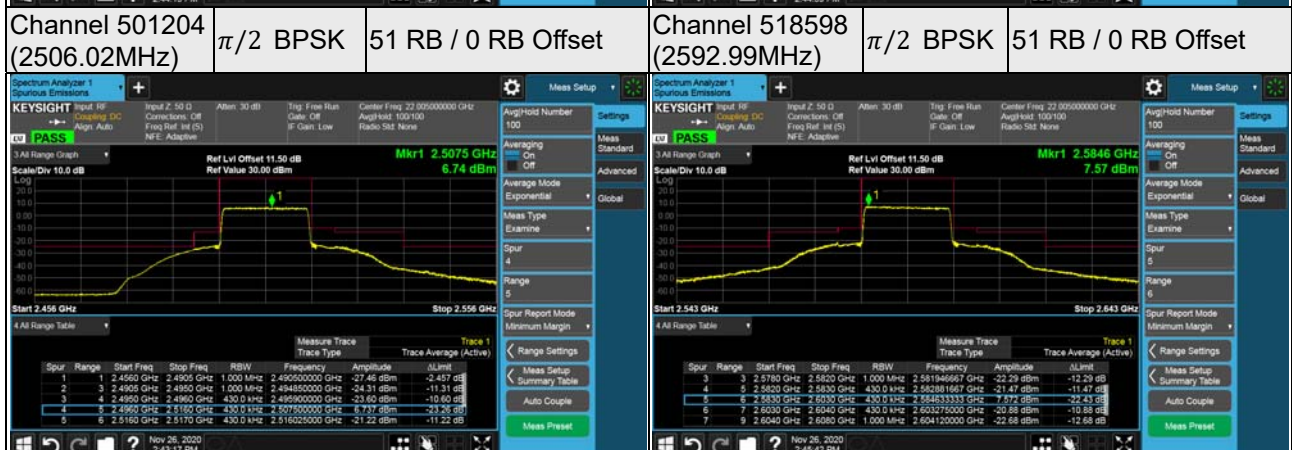
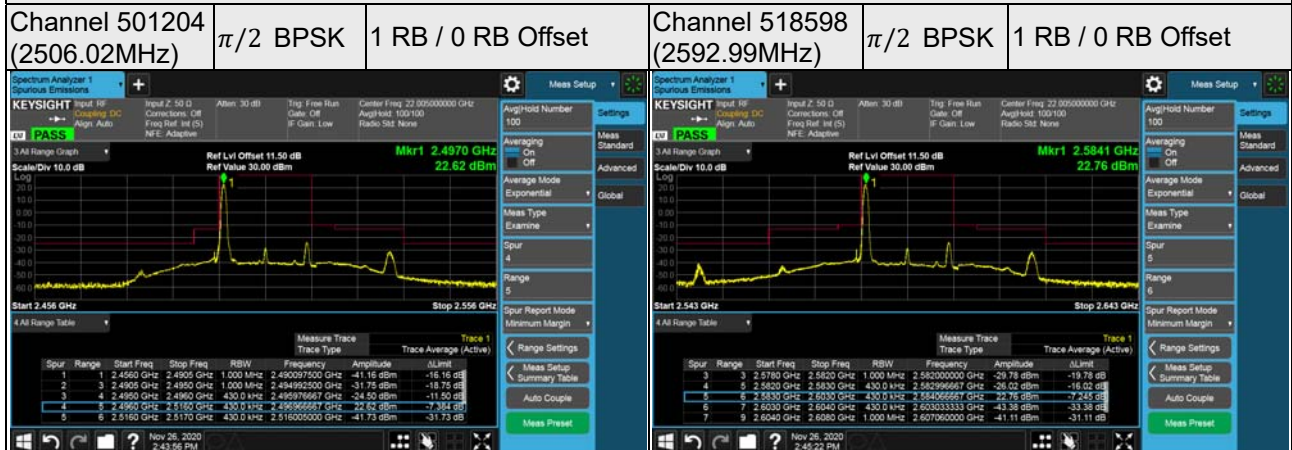
Channel 536496  
(2682.48MHz)  $\pi/2$  BPSK 1 RB / 37 RB Offset



Channel 536496  
(2682.48MHz)  $\pi/2$  BPSK 38 RB / 0 RB Offset

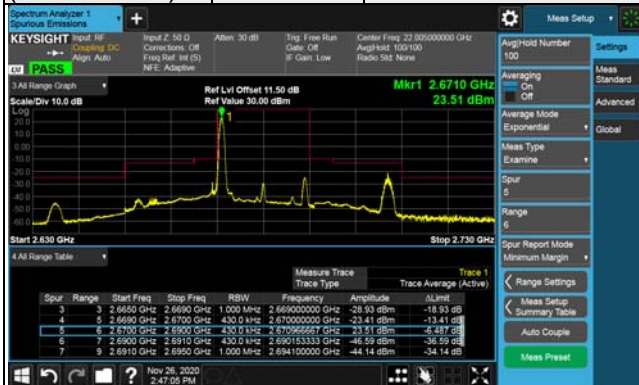


n41, Channel Bandwidth: 20MHz

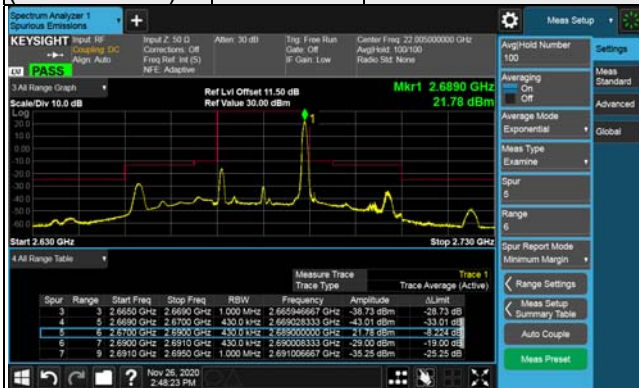


n41, Channel Bandwidth: 20MHz

Channel 535998  
(2679.99MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



Channel 535998  
(2679.99MHz)  $\pi/2$  BPSK 1 RB / 50 RB Offset



Channel 535998  
(2679.99MHz)  $\pi/2$  BPSK 51 RB / 0 RB Offset

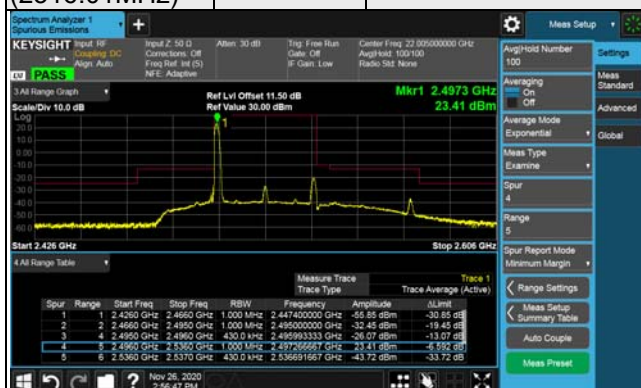


n41, Channel Bandwidth: 40MHz

Channel 503202  
(2516.01MHz)

$\pi/2$  BPSK

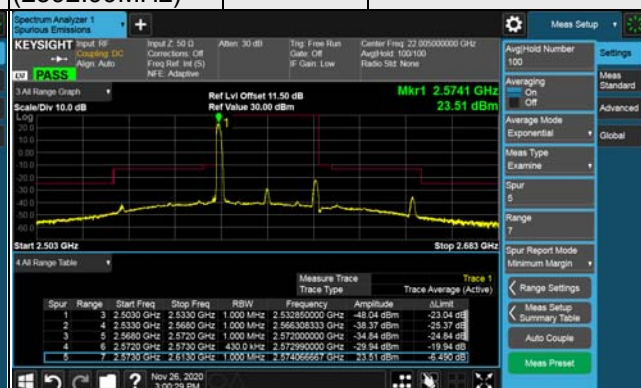
1 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

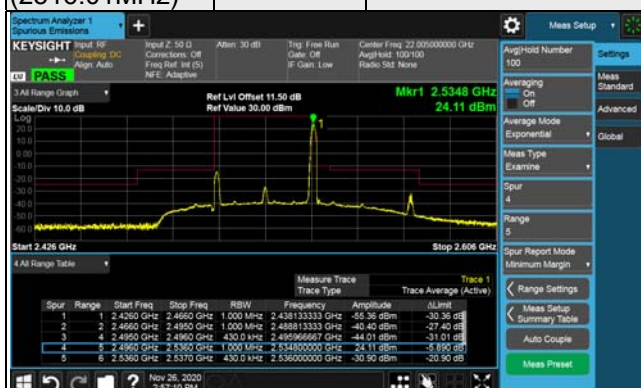
1 RB / 0 RB Offset



Channel 503202  
(2516.01MHz)

$\pi/2$  BPSK

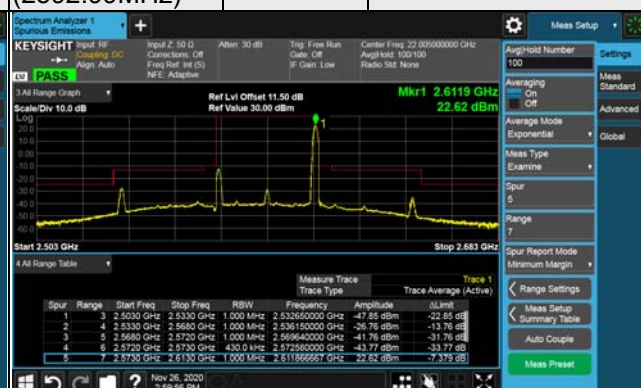
1 RB / 105 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

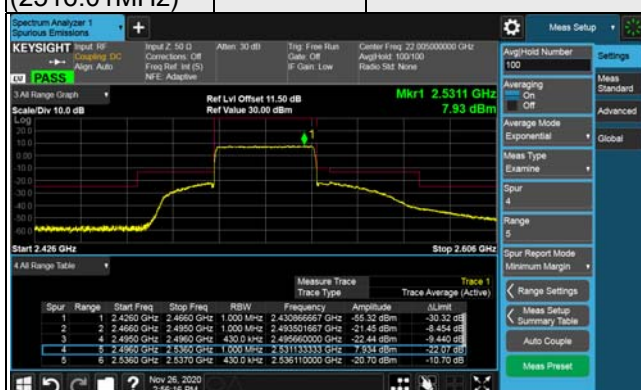
1 RB / 105 RB Offset



Channel 503202  
(2516.01MHz)

$\pi/2$  BPSK

106 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

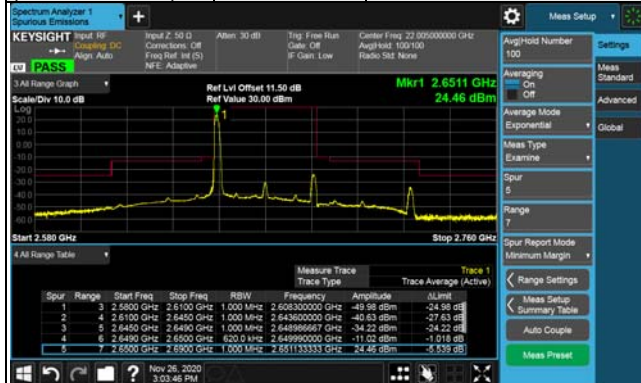
$\pi/2$  BPSK

106 RB / 0 RB Offset

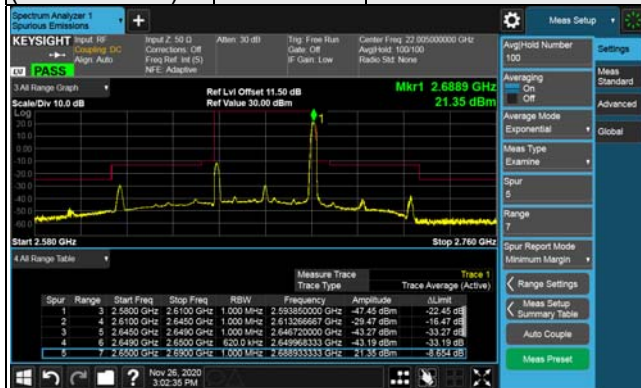


n41, Channel Bandwidth: 40MHz

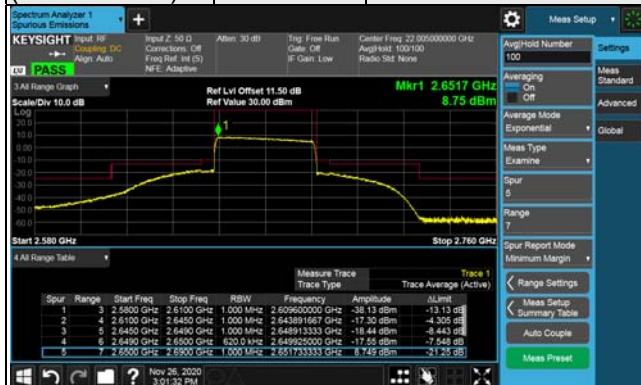
Channel 534000  
(2670.00MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



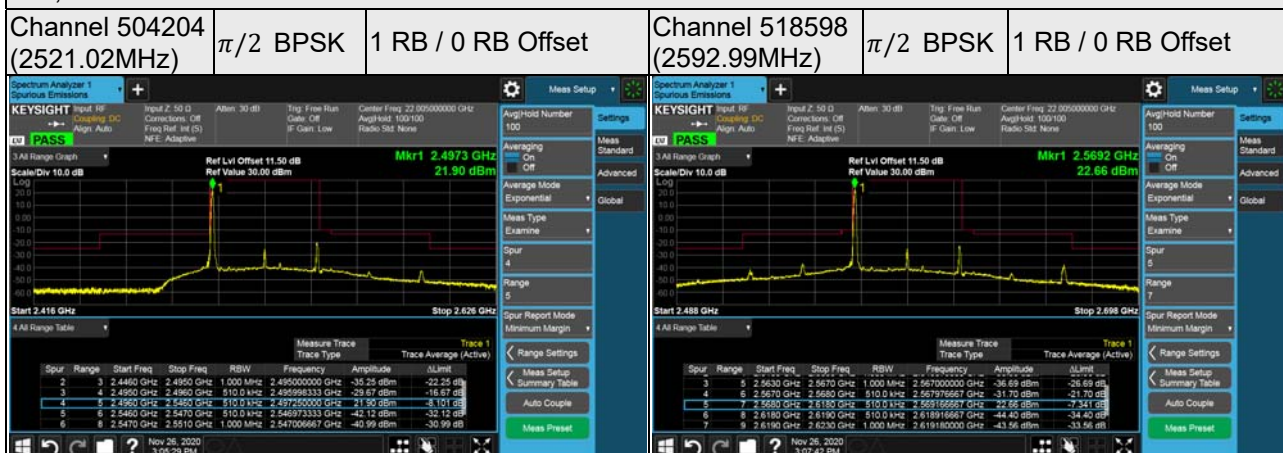
Channel 534000  
(2670.00MHz)  $\pi/2$  BPSK 1 RB / 105 RB Offset



Channel 534000  
(2670.00MHz)  $\pi/2$  BPSK 106 RB / 0 RB Offset

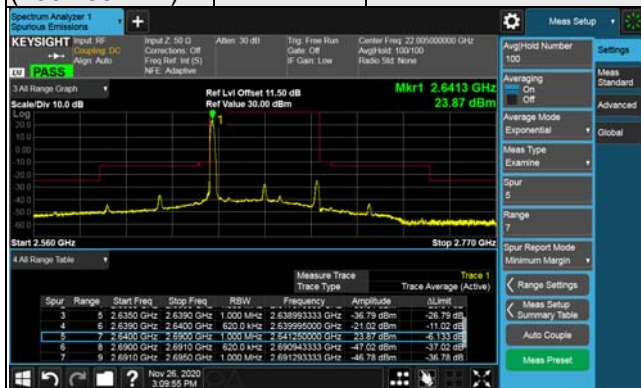


n41, Channel Bandwidth: 50MHz

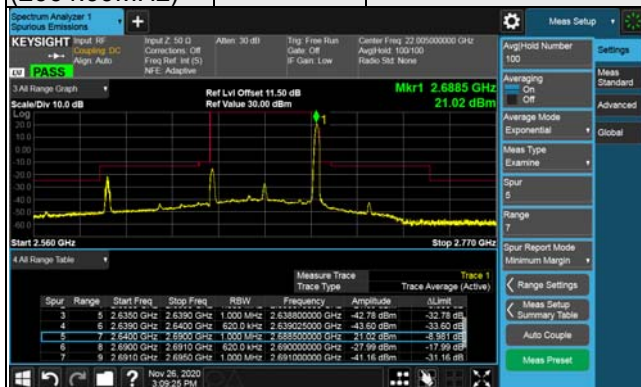


n41, Channel Bandwidth: 50MHz

Channel 532998  
(2664.99MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



Channel 532998  
(2664.99MHz)  $\pi/2$  BPSK 1 RB / 132 RB Offset



Channel 532998  
(2664.99MHz)  $\pi/2$  BPSK 133 RB / 0 RB Offset

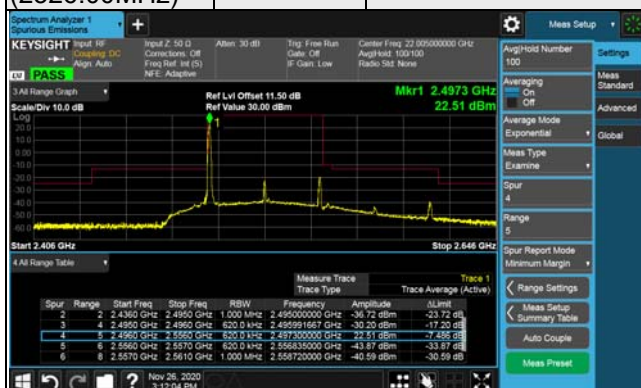


n41, Channel Bandwidth: 60MHz

Channel 505200  
(2526.00MHz)

$\pi/2$  BPSK

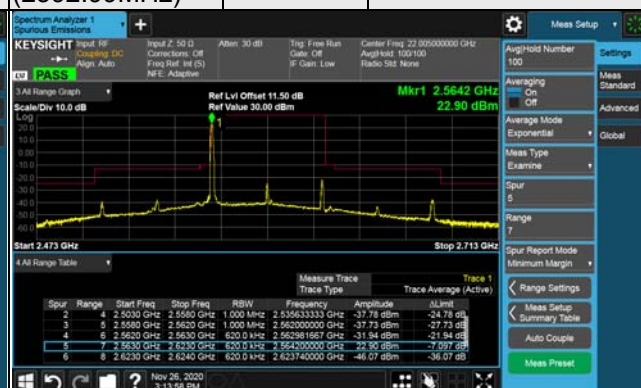
1 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

1 RB / 0 RB Offset



Channel 505200  
(2526.00MHz)

$\pi/2$  BPSK

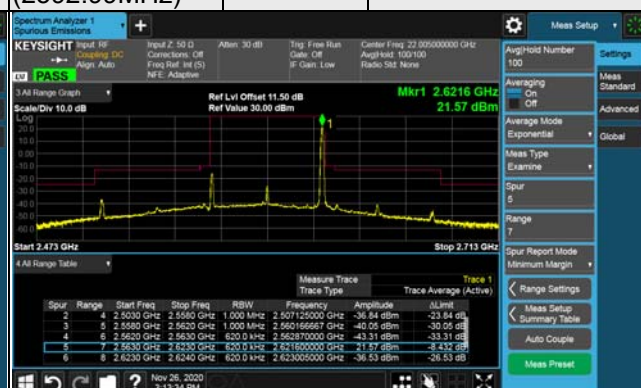
1 RB / 161 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

1 RB / 161 RB Offset



Channel 505200  
(2526.00MHz)

$\pi/2$  BPSK

162 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

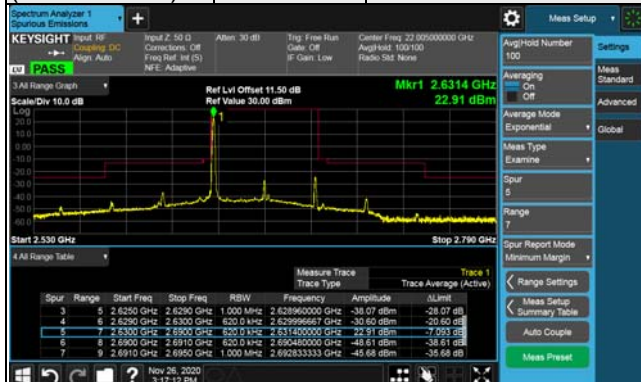
$\pi/2$  BPSK

162 RB / 0 RB Offset

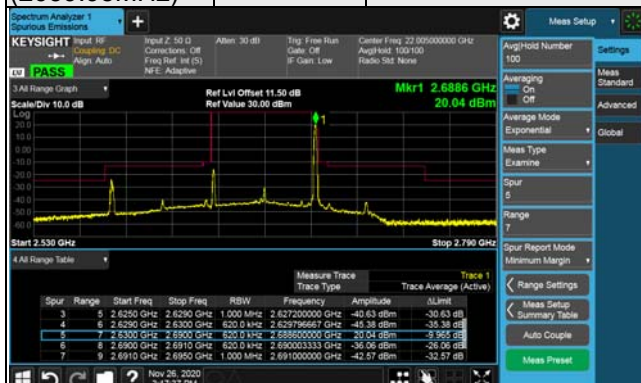


n41, Channel Bandwidth: 60MHz

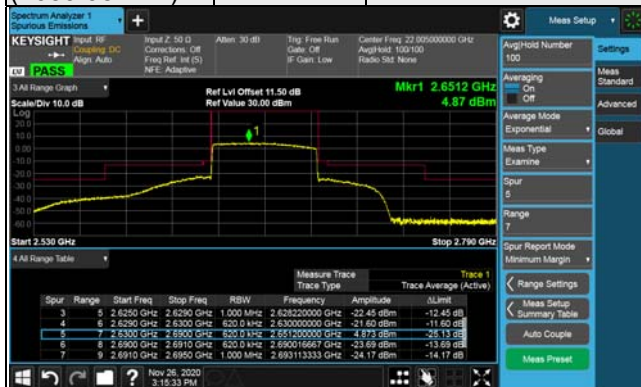
Channel 531996  
(2659.98MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



Channel 531996  
(2659.98MHz)  $\pi/2$  BPSK 1 RB / 161 RB Offset



Channel 531996  
(2659.98MHz)  $\pi/2$  BPSK 162 RB / 0 RB Offset

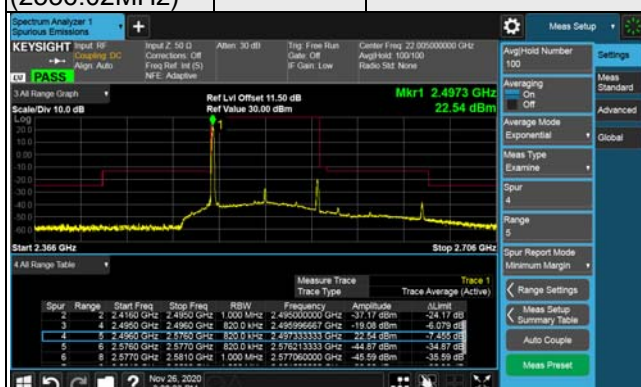


n41, Channel Bandwidth: 80MHz

Channel 507204  
(2536.02MHz)

$\pi/2$  BPSK

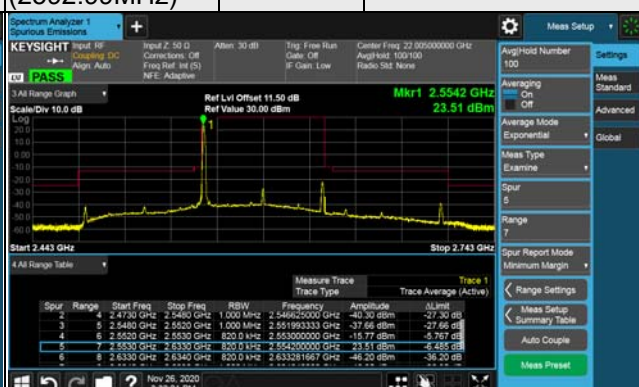
1 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

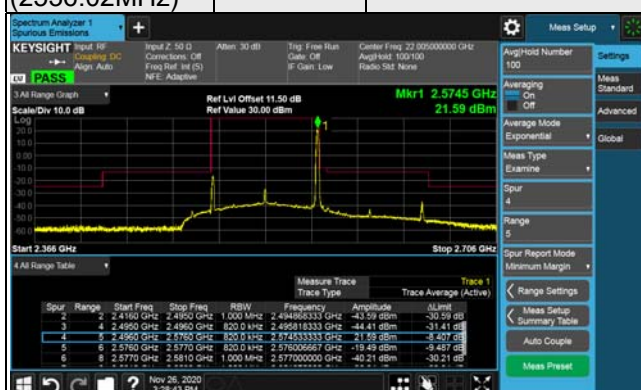
1 RB / 0 RB Offset



Channel 507204  
(2536.02MHz)

$\pi/2$  BPSK

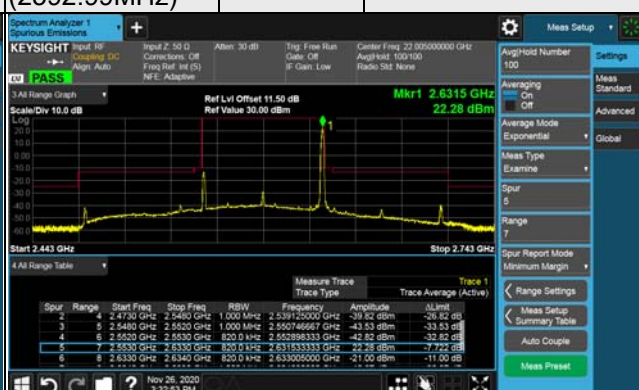
1 RB / 216 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

1 RB / 216 RB Offset



Channel 507204  
(2536.02MHz)

$\pi/2$  BPSK

217 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

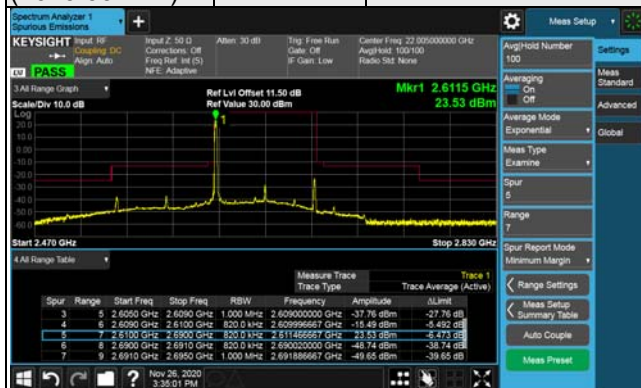
$\pi/2$  BPSK

217 RB / 0 RB Offset

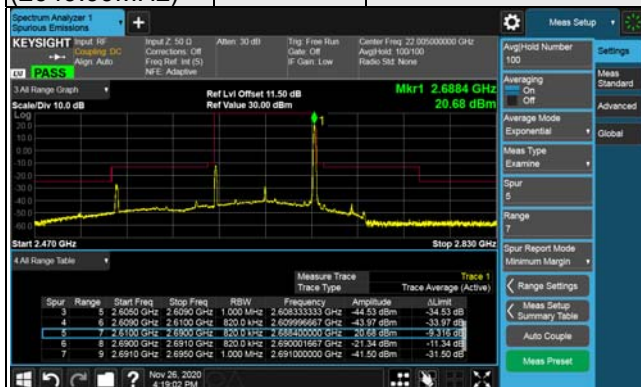


n41, Channel Bandwidth: 80MHz

Channel 529998  
(2649.99MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



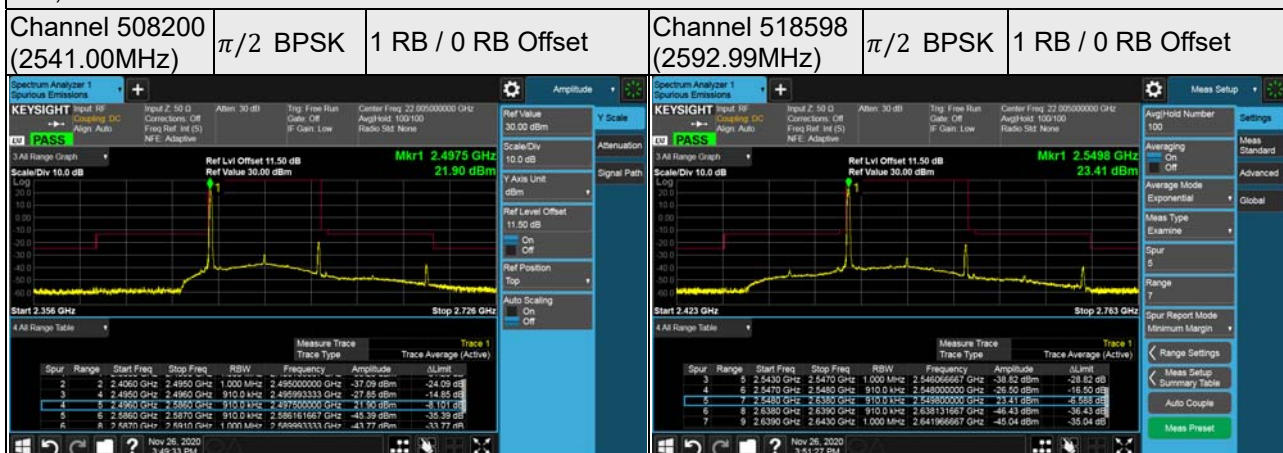
Channel 529998  
(2649.99MHz)  $\pi/2$  BPSK 1 RB / 216 RB Offset



Channel 529998  
(2649.99MHz)  $\pi/2$  BPSK 217 RB / 0 RB Offset

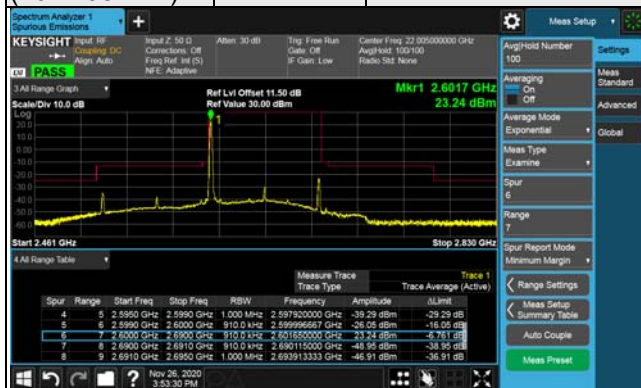


n41, Channel Bandwidth: 90MHz

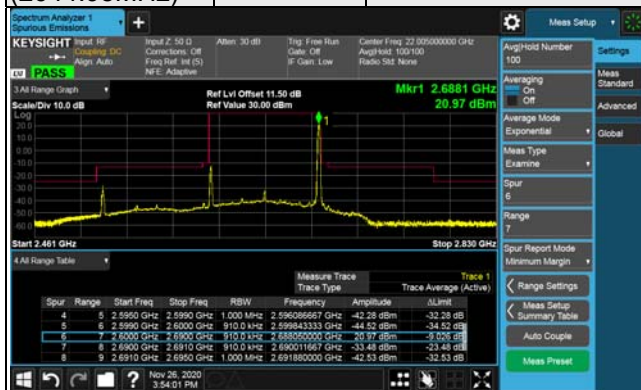


n41, Channel Bandwidth: 90MHz

Channel 528996  
(2644.98MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



Channel 528996  
(2644.98MHz)  $\pi/2$  BPSK 1 RB / 244 RB Offset



Channel 528996  
(2644.98MHz)  $\pi/2$  BPSK 245 RB / 0 RB Offset

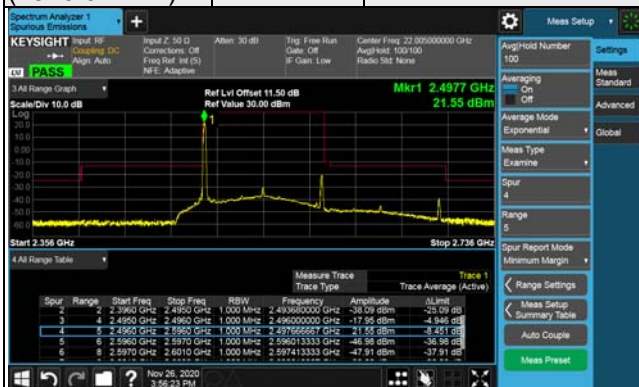


n41, Channel Bandwidth: 100MHz

Channel 509202  
(2546.01MHz)

$\pi/2$  BPSK

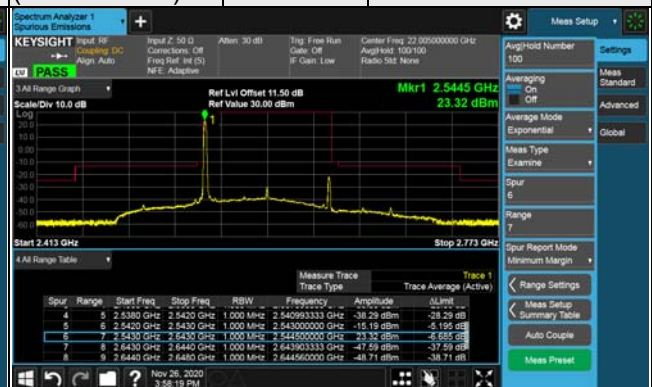
1 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

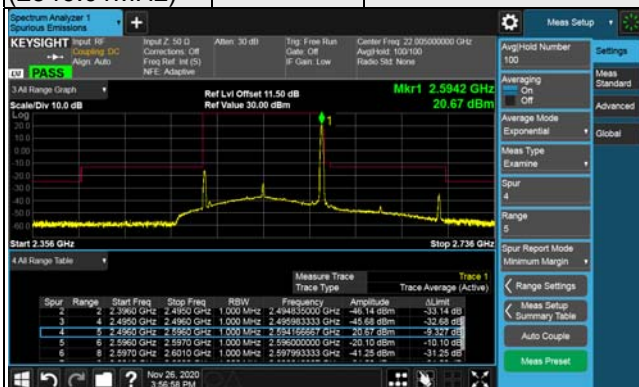
1 RB / 0 RB Offset



Channel 509202  
(2546.01MHz)

$\pi/2$  BPSK

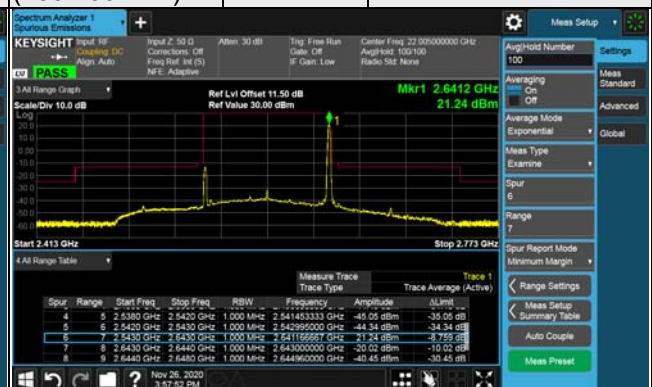
1 RB / 272 RB Offset



Channel 518598  
(2592.99MHz)

$\pi/2$  BPSK

1 RB / 272 RB Offset



Channel 509202  
(2546.01MHz)

$\pi/2$  BPSK

273 RB / 0 RB Offset



Channel 518598  
(2592.99MHz)

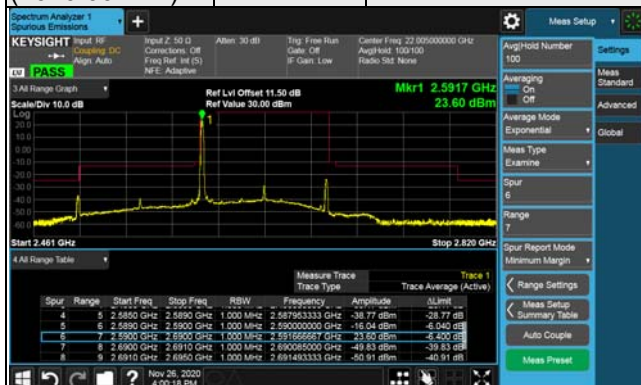
$\pi/2$  BPSK

273 RB / 0 RB Offset

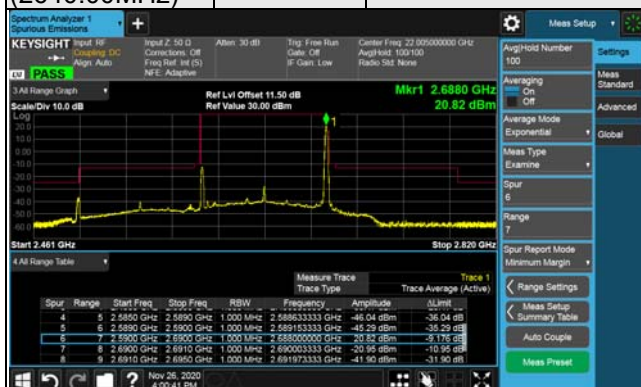


n41, Channel Bandwidth: 100MHz

Channel 528000  
(2640.00MHz)  $\pi/2$  BPSK 1 RB / 0 RB Offset



Channel 528000  
(2640.00MHz)  $\pi/2$  BPSK 1 RB / 272 RB Offset



Channel 528000  
(2640.00MHz)  $\pi/2$  BPSK 273 RB / 0 RB Offset

