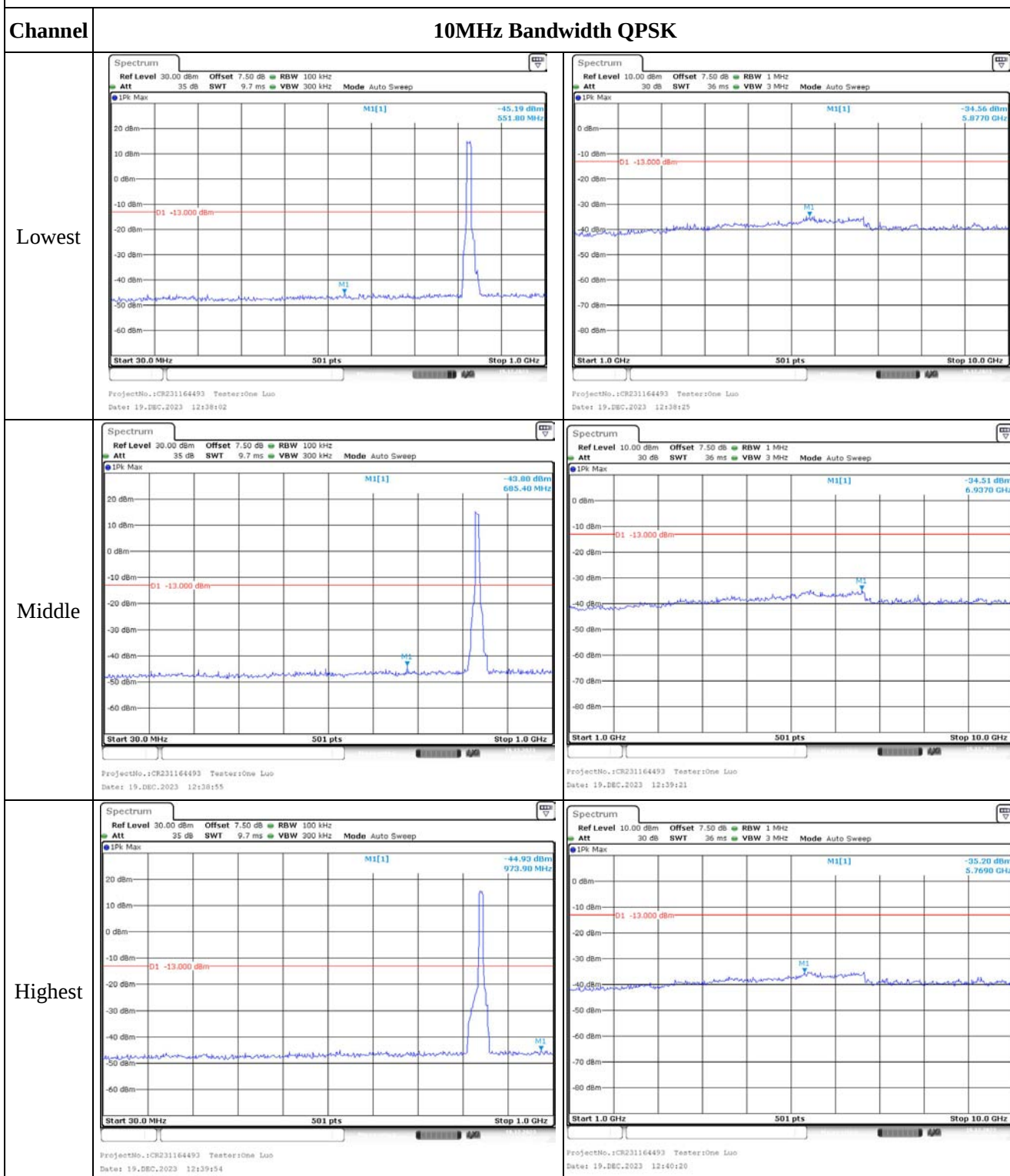
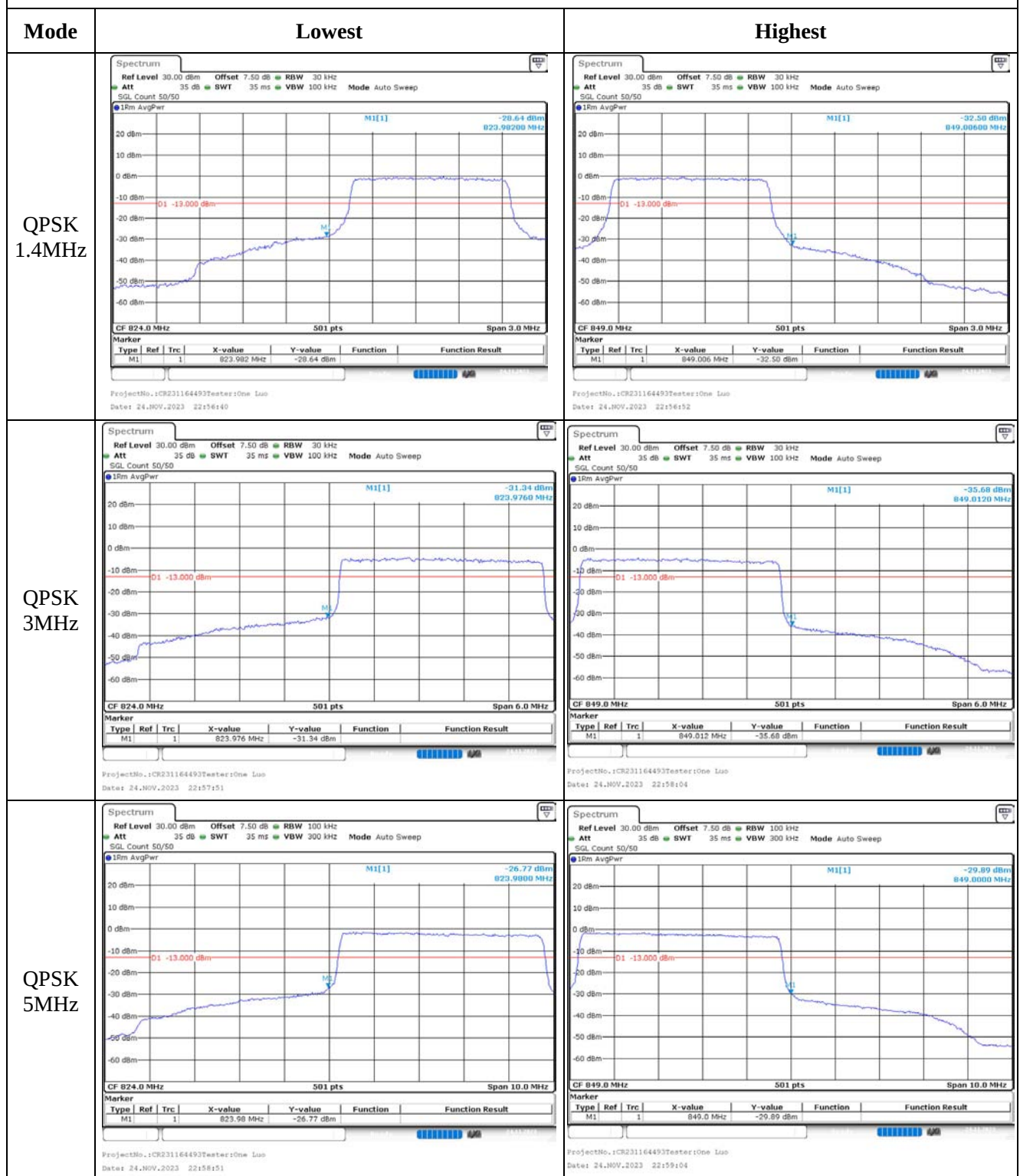


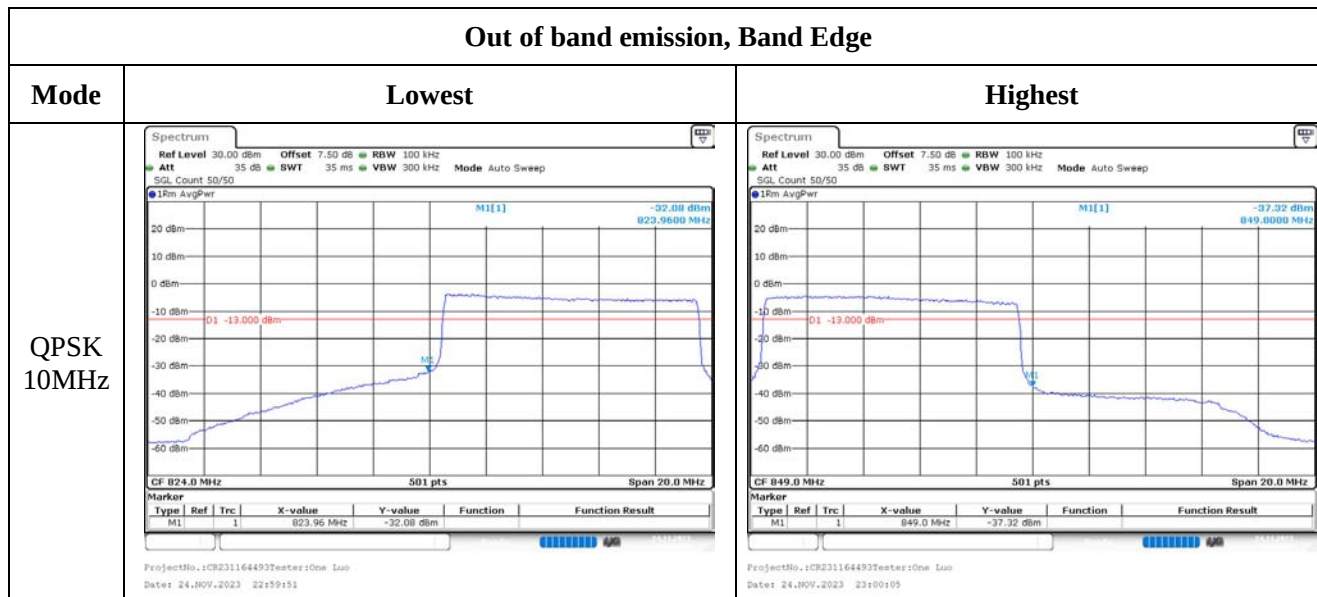
## Spurious Emissions at Antenna Terminal



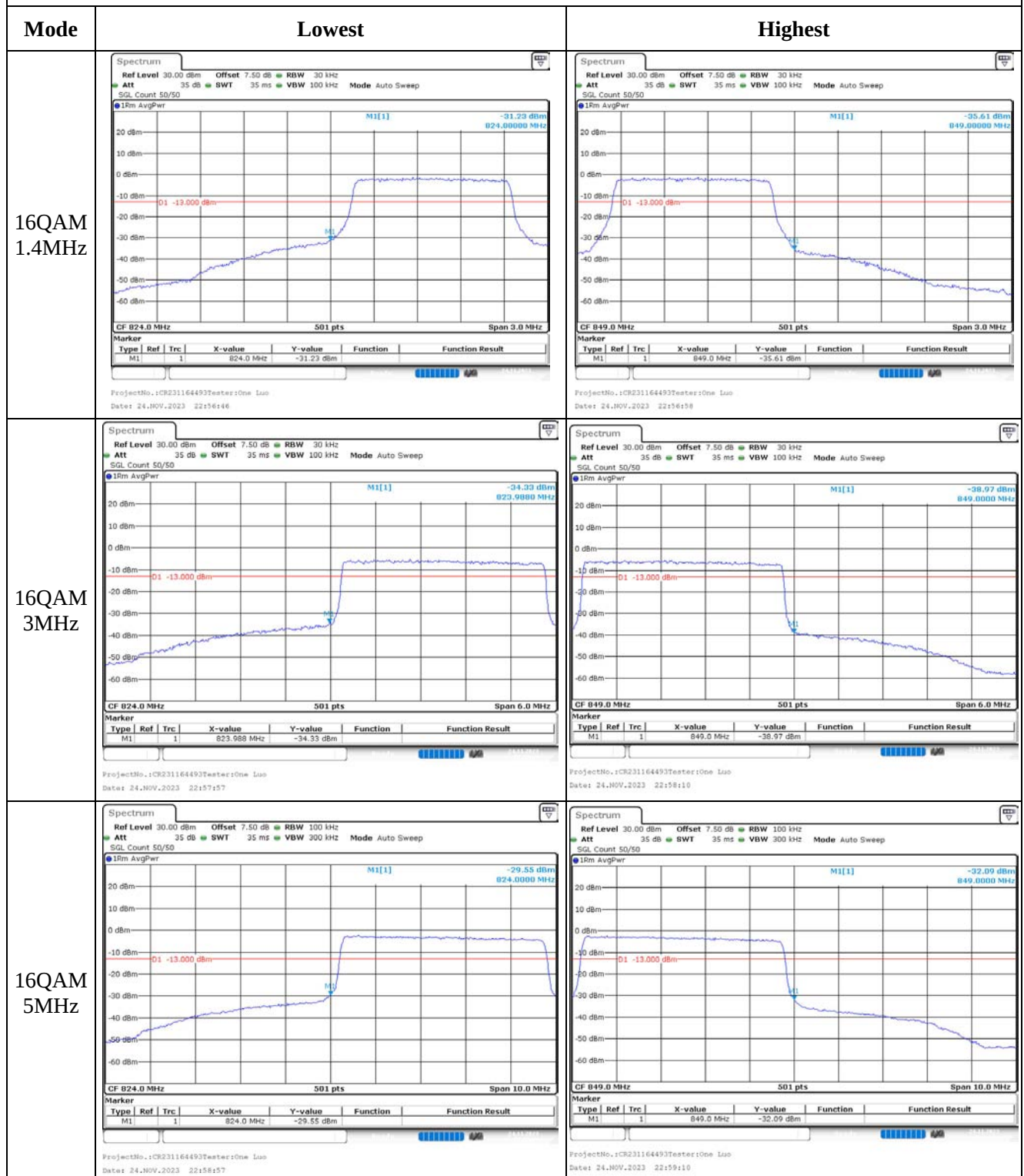
## Out of band emission, Band Edge



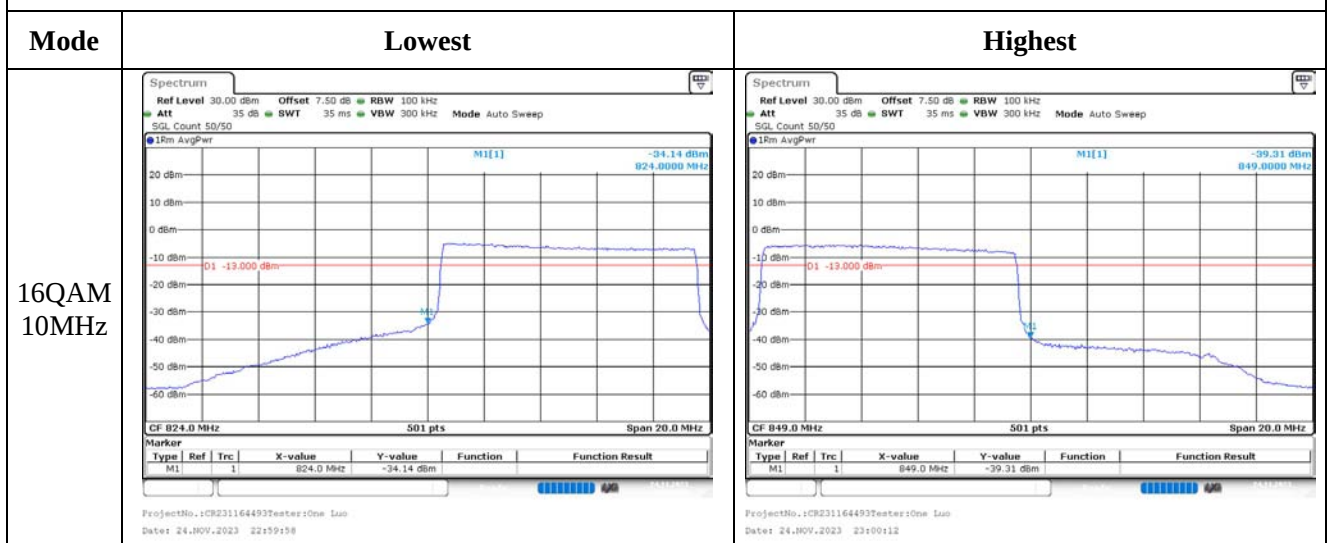
## Out of band emission, Band Edge



## Out of band emission, Band Edge



## Out of band emission, Band Edge



**4.9 Antenna Port Test Data and Results for LTE Band 7**

|                |         |              |                       |
|----------------|---------|--------------|-----------------------|
| Serial Number: | 2D1L-2  | Test Date:   | 2023/11/24~2023/12/20 |
| Test Site:     | RF      | Test Mode:   | Transmitting          |
| Tester:        | One Luo | Test Result: | Pass                  |

**Environmental Conditions:**

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 22.3~25.8 | Relative Humidity:<br>(%) | 31~52 | ATM Pressure:<br>(kPa) | 100.9~101.9 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model      | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40      | 101474          | 2023/3/31        | 2024/3/30            |
| zhuoxiang     | Coaxial Cable                       | SMA-178    | 211001          | Each time        | N/A                  |
| YINSAIGE      | Coaxial Cable                       | SS402      | SJ0100001       | Each time        | N/A                  |
| Mini-Circuits | DC Block                            | BLK-18-S+  | 1554403         | Each time        | N/A                  |
| Weinschel     | Power Splitter                      | 1515       | RA914           | Each time        | N/A                  |
| R&S           | Wideband Radio Communication Tester | CMW500     | 143458          | 2023/3/31        | 2024/3/30            |
| BACL          | TEMP&HUMI Test Chamber              | BTH-150-40 | 30174           | 2023/3/31        | 2024/3/30            |
| UNI-T         | Multimeter                          | UT39A+     | C210582554      | 2023/9/29        | 2024/9/28            |
| ZHAOXIN       | DC Power Supply                     | RXN-6010D  | 21R6010D0912386 | N/A              | N/A                  |

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency For Each Mode:**

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 5MHz                | 2502.5                 | 2535                   | 2567.5                  |
| 10MHz               | 2505                   | 2535                   | 2565                    |
| 15MHz               | 2507.5                 | 2535                   | 2562.5                  |
| 20MHz               | 2510                   | 2535                   | 2560                    |

**Test Data:**

| <b>RF Output Power</b>      |                            |                                     |                |                 |                    |                  |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|--------------------|------------------|
| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|                             |                            | Lowest Channel                      | Middle Channel | Highest Channel |                    |                  |
| 5MHz QPSK                   | RB1#0                      | 23.32                               | 23.19          | 23.21           | 26.58              | 33               |
|                             | RB1#13                     | <b>23.38</b>                        | 23.32          | 23.32           |                    |                  |
|                             | RB1#24                     | 23.32                               | 23.18          | 23.22           |                    |                  |
|                             | RB15#0                     | 22.32                               | 22.25          | 22.3            |                    |                  |
|                             | RB15#10                    | 22.34                               | 22.3           | 22.3            |                    |                  |
|                             | RB25#0                     | 22.31                               | 22.25          | 22.24           |                    |                  |
| 5MHz 16QAM                  | RB1#0                      | 22.48                               | 22.19          | 22.05           | 25.76              | 33               |
|                             | RB1#13                     | <b>22.56</b>                        | 22.28          | 22.17           |                    |                  |
|                             | RB1#24                     | 22.44                               | 22.19          | 22.1            |                    |                  |
|                             | RB15#0                     | 21.26                               | 21.25          | 21.28           |                    |                  |
|                             | RB15#10                    | 21.3                                | 21.25          | 21.25           |                    |                  |
|                             | RB25#0                     | 21.29                               | 21.25          | 21.25           |                    |                  |
| 10MHz QPSK                  | RB1#0                      | 23.45                               | 23.26          | 23.32           | 26.8               | 33               |
|                             | RB1#25                     | <b>23.6</b>                         | 23.48          | 23.5            |                    |                  |
|                             | RB1#49                     | 23.41                               | 23.29          | 23.31           |                    |                  |
|                             | RB25#0                     | 22.3                                | 22.26          | 22.37           |                    |                  |
|                             | RB25#25                    | 22.36                               | 22.35          | 22.34           |                    |                  |
|                             | RB50#0                     | 22.35                               | 22.33          | 22.34           |                    |                  |
| 10MHz 16QAM                 | RB1#0                      | 22.3                                | 22.7           | 22.36           | 26.1               | 33               |
|                             | RB1#25                     | 22.44                               | <b>22.9</b>    | 22.49           |                    |                  |
|                             | RB1#49                     | 22.31                               | 22.73          | 22.34           |                    |                  |
|                             | RB25#0                     | 21.35                               | 21.27          | 21.29           |                    |                  |
|                             | RB25#25                    | 21.38                               | 21.37          | 21.31           |                    |                  |
|                             | RB50#0                     | 21.32                               | 21.29          | 21.28           |                    |                  |
| 15MHz QPSK                  | RB1#0                      | 23.38                               | 23.3           | 23.28           | 26.62              | 33               |
|                             | RB1#38                     | <b>23.42</b>                        | 23.32          | 23.32           |                    |                  |
|                             | RB1#74                     | 23.27                               | 23.2           | 23.27           |                    |                  |
|                             | RB36#0                     | 22.44                               | 22.38          | 22.46           |                    |                  |
|                             | RB36#39                    | 22.45                               | 22.41          | 22.39           |                    |                  |
|                             | RB75#0                     | 22.48                               | 22.41          | 22.46           |                    |                  |
| 15MHz 16QAM                 | RB1#0                      | 22.69                               | 22.33          | 22.5            | 25.97              | 33               |
|                             | RB1#38                     | <b>22.77</b>                        | 22.43          | 22.57           |                    |                  |
|                             | RB1#74                     | 22.65                               | 22.27          | 22.49           |                    |                  |
|                             | RB36#0                     | 21.4                                | 21.36          | 21.35           |                    |                  |
|                             | RB36#39                    | 21.41                               | 21.38          | 21.33           |                    |                  |
|                             | RB75#0                     | 21.38                               | 21.35          | 21.32           |                    |                  |
| 20MHz QPSK                  | RB1#0                      | 23.87                               | 23.72          | 23.21           | 27.28              | 33               |
|                             | RB1#50                     | <b>24.08</b>                        | 23.74          | 23.47           |                    |                  |
|                             | RB1#99                     | 23.7                                | 23.17          | 23.2            |                    |                  |
|                             | RB50#0                     | 22.89                               | 22.33          | 22.44           |                    |                  |

|                                                                 |         |       |       |       |         |      |
|-----------------------------------------------------------------|---------|-------|-------|-------|---------|------|
|                                                                 | RB50#50 | 22.89 | 22.4  | 22.33 |         |      |
|                                                                 | RB100#0 | 22.87 | 22.4  | 22.42 |         |      |
| 20MHz 16QAM                                                     | RB1#0   | 22.88 | 22.7  | 22.38 | 26.35   | 33   |
|                                                                 | RB1#50  | 23.15 | 22.97 | 22.74 |         |      |
|                                                                 | RB1#99  | 22.84 | 22.67 | 22.37 |         |      |
|                                                                 | RB50#0  | 21.88 | 21.32 | 21.43 |         |      |
|                                                                 | RB50#50 | 21.85 | 21.39 | 21.25 |         |      |
|                                                                 | RB100#0 | 21.85 | 21.36 | 21.37 |         |      |
| Note: EIRP=Conducted Power(dBm) - Lc(dB) + G <sub>T</sub> (dBi) |         |       |       |       |         |      |
|                                                                 |         |       |       |       | Result: | Pass |

**Peak-to-average Ratio(PAR)**

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) |                |                 | Limit (dB) |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|------------|
|                             |                            | Lowest Channel            | Middle Channel | Highest Channel |            |
| 10MHz QPSK                  | RB1#0                      | 2.99                      | 3.62           | 3.16            | 13         |
|                             | RB50#0                     | 4.14                      | 4.58           | 4.35            | 13         |
| 10MHz 16QAM                 | RB1#0                      | 4.09                      | 4.55           | 4.12            | 13         |
|                             | RB50#0                     | 5.13                      | 5.57           | 5.28            | 13         |
|                             |                            |                           |                | Result:         | Pass       |

**Occupied Bandwidth**

| Operation Mode | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle Channel | High Channel |
| 5MHz QPSK      | 4.531                        | 4.531          | 4.551        | 5.22                           | 5.26           | 5.34         |
| 5MHz 16QAM     | 4.551                        | 4.551          | 4.531        | 5.24                           | 5.24           | 5.28         |
| 10MHz QPSK     | 8.942                        | 8.942          | 9.022        | 9.88                           | 9.92           | 10.36        |
| 10MHz 16QAM    | 8.942                        | 8.942          | 8.981        | 9.96                           | 9.92           | 9.88         |
| 15MHz QPSK     | 13.533                       | 13.473         | 13.593       | 14.88                          | 14.82          | 15.18        |
| 15MHz 16QAM    | 13.533                       | 13.533         | 13.533       | 14.76                          | 14.76          | 14.82        |
| 20MHz QPSK     | 17.884                       | 17.964         | 17.964       | 19.6                           | 19.44          | 19.68        |
| 20MHz 16QAM    | 17.964                       | 17.964         | 17.964       | 19.84                          | 19.84          | 20           |

Note: The test plots please refer to the Plots of Occupied Bandwidth

**Spurious Emissions at Antenna Terminal**

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| <b>Result:</b> | Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal. |
|----------------|---------------------------------------------------------------------------------|

**Out of band emission, Band Edge**

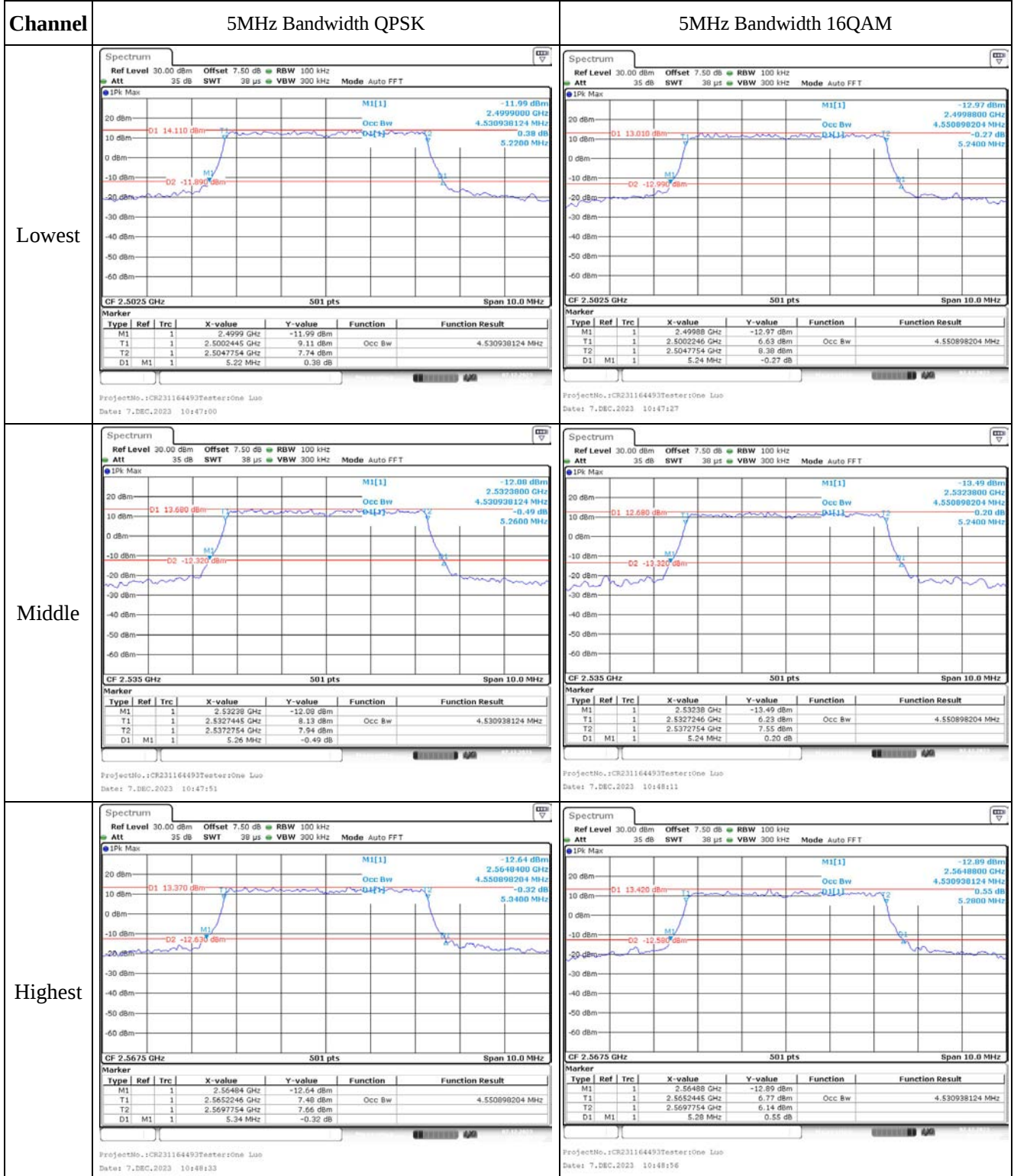
|                |                                                                          |
|----------------|--------------------------------------------------------------------------|
| <b>Result:</b> | Pass, Please refer to the test plots of Out of band emission, Band Edge. |
|----------------|--------------------------------------------------------------------------|

| Frequency Stability                 |                  |                                                            |                  |         |                  |             |
|-------------------------------------|------------------|------------------------------------------------------------|------------------|---------|------------------|-------------|
| Test Mode:                          | 20M QPSK         | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |         |                  |             |
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |         | Upper Edge (MHz) |             |
|                                     |                  |                                                            | Result           | Limit   | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.8                                                        | 2501.055         | 2500.00 | 2568.920         | 2570        |
|                                     | -20              | 3.8                                                        | 2501.091         | 2500.00 | 2568.978         | 2570        |
|                                     | -10              | 3.8                                                        | 2501.033         | 2500.00 | 2568.977         | 2570        |
|                                     | 0                | 3.8                                                        | 2501.092         | 2500.00 | 2568.929         | 2570        |
|                                     | 10               | 3.8                                                        | 2501.050         | 2500.00 | 2568.994         | 2570        |
|                                     | 20               | 3.8                                                        | 2501.058         | 2500.00 | 2568.942         | 2570        |
|                                     | 30               | 3.8                                                        | 2501.012         | 2500.00 | 2568.964         | 2570        |
|                                     | 40               | 3.8                                                        | 2501.054         | 2500.00 | 2568.968         | 2570        |
|                                     | 50               | 3.8                                                        | 2501.088         | 2500.00 | 2568.993         | 2570        |
| Frequency Stability vs. Voltage     | 20               | 3.2                                                        | 2501.015         | 2500.00 | 2568.965         | 2570        |
|                                     | 20               | 4.4                                                        | 2501.082         | 2500.00 | 2568.938         | 2570        |
|                                     |                  |                                                            |                  |         | <b>Result:</b>   | <b>Pass</b> |

| Test Mode:                          | 20M 16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |         |                  |             |
|-------------------------------------|------------------|------------------------------------------------------------|------------------|---------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |         | Upper Edge (MHz) |             |
|                                     |                  |                                                            | Result           | Limit   | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.8                                                        | 2501.012         | 2500.00 | 2568.904         | 2570        |
|                                     | -20              | 3.8                                                        | 2501.059         | 2500.00 | 2568.931         | 2570        |
|                                     | -10              | 3.8                                                        | 2501.001         | 2500.00 | 2568.974         | 2570        |
|                                     | 0                | 3.8                                                        | 2501.015         | 2500.00 | 2568.931         | 2570        |
|                                     | 10               | 3.8                                                        | 2501.008         | 2500.00 | 2568.915         | 2570        |
|                                     | 20               | 3.8                                                        | 2501.058         | 2500.00 | 2568.942         | 2570        |
|                                     | 30               | 3.8                                                        | 2501.046         | 2500.00 | 2568.927         | 2570        |
|                                     | 40               | 3.8                                                        | 2501.030         | 2500.00 | 2568.915         | 2570        |
|                                     | 50               | 3.8                                                        | 2501.024         | 2500.00 | 2568.952         | 2570        |
| Frequency Stability vs. Voltage     | 20               | 3.2                                                        | 2501.097         | 2500.00 | 2568.985         | 2570        |
|                                     | 20               | 4.4                                                        | 2501.092         | 2500.00 | 2568.946         | 2570        |
|                                     |                  |                                                            |                  |         | <b>Result:</b>   | <b>Pass</b> |

**Test Plots**(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

### Occupied Bandwidth



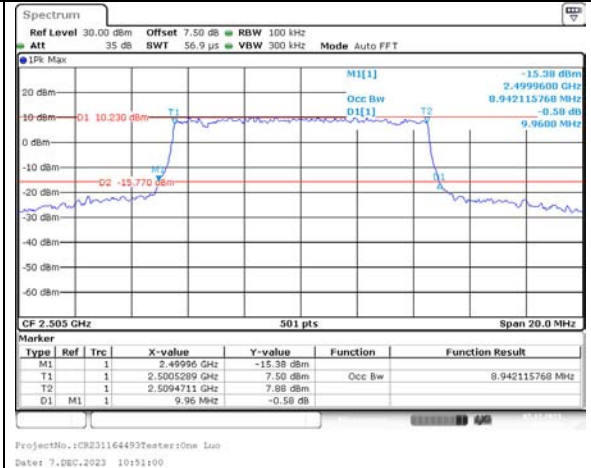
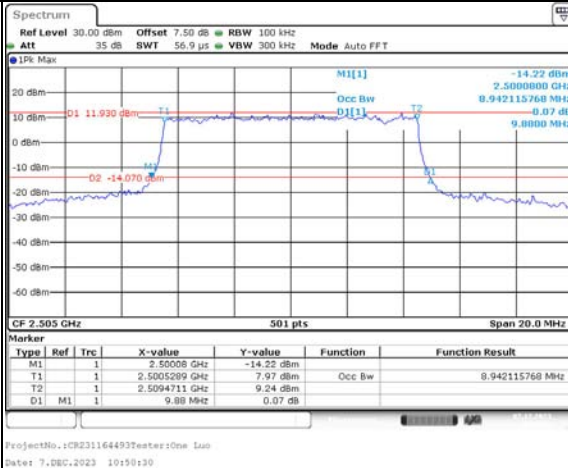
## Occupied Bandwidth

## Channel

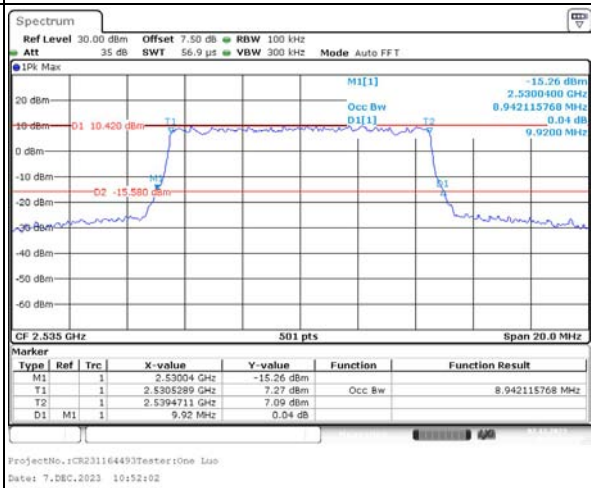
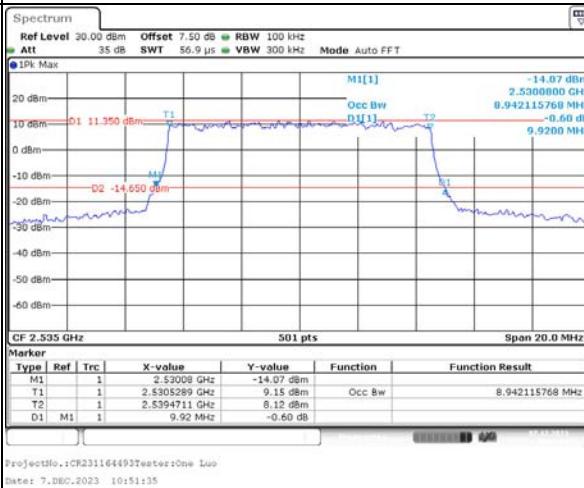
## 10MHz Bandwidth QPSK

## 10MHz Bandwidth 16QAM

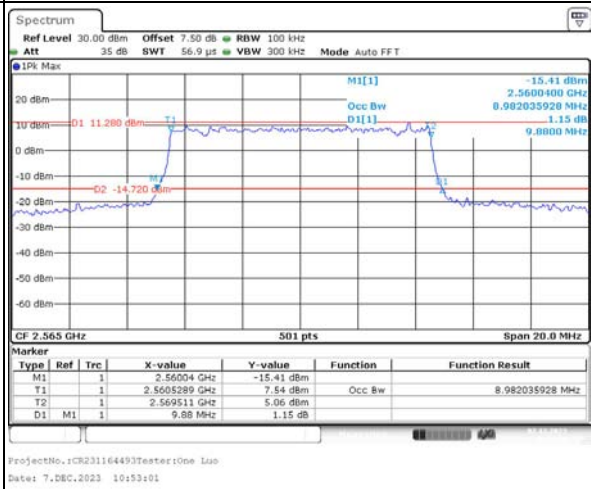
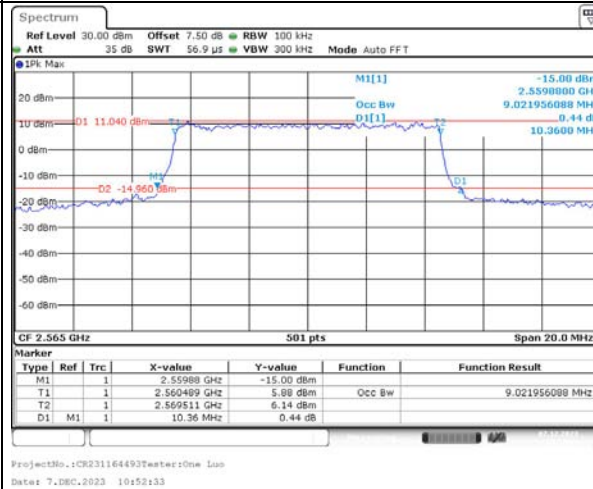
## Lowest



## Middle



## Highest



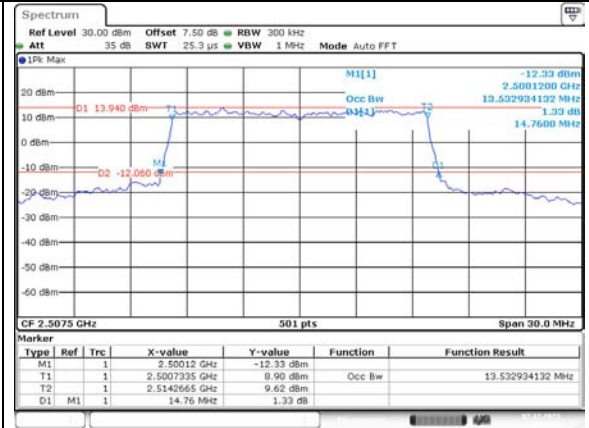
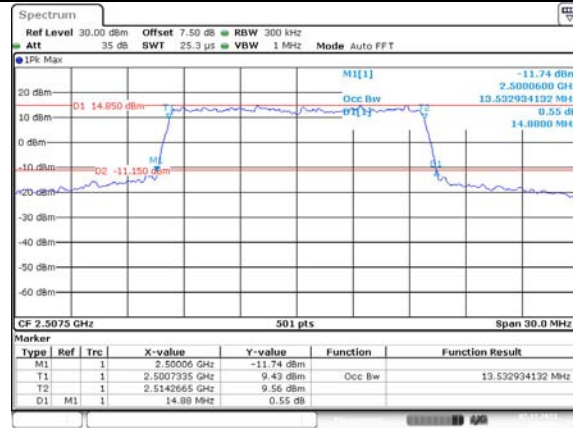
## Occupied Bandwidth

## Channel

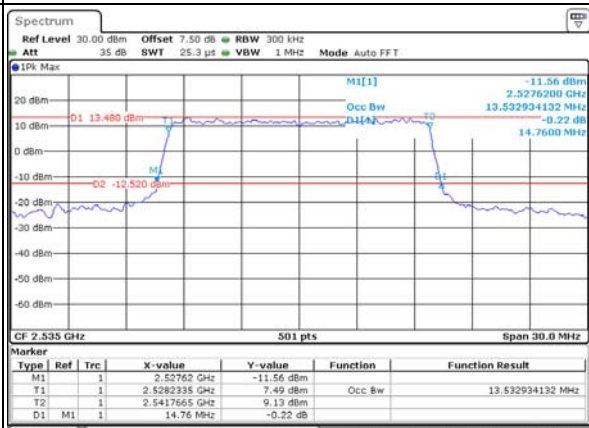
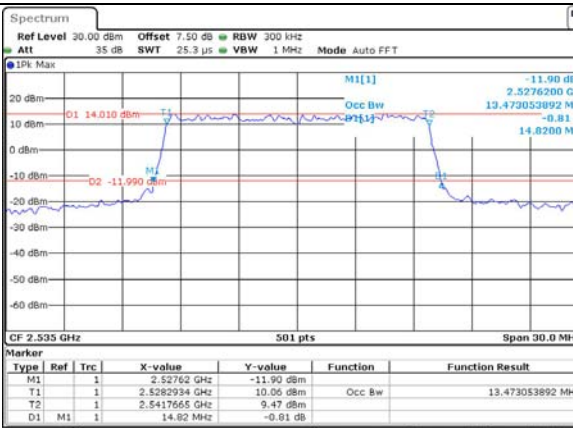
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

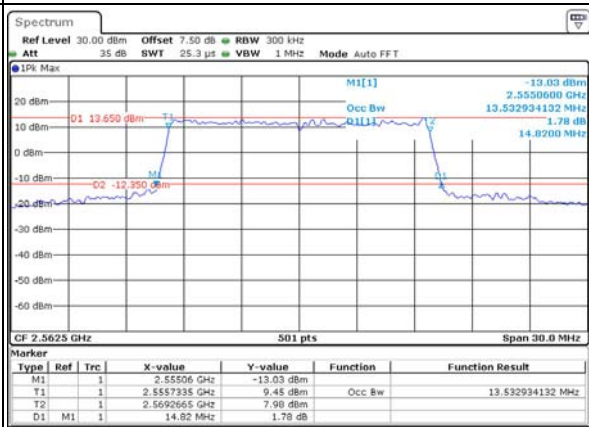
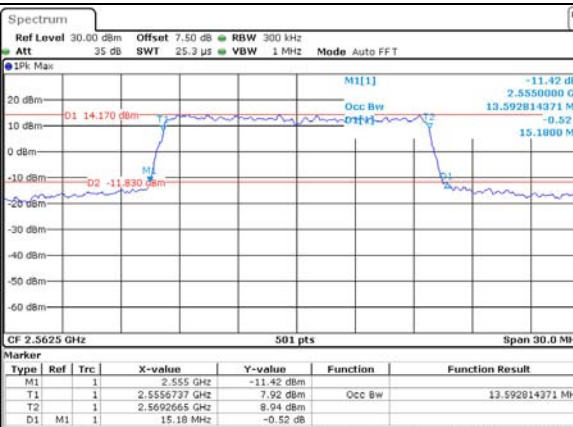
Lowest



Middle



Highest



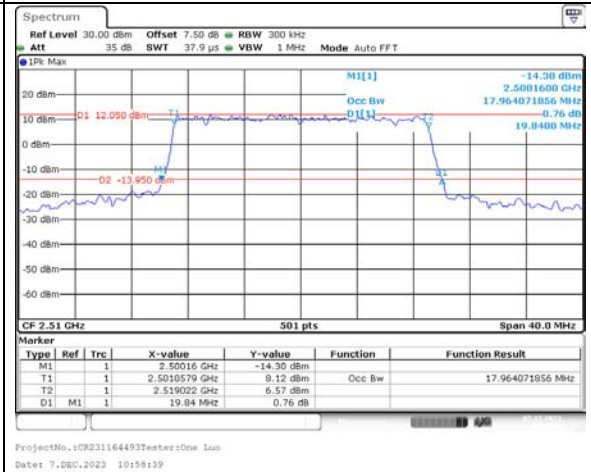
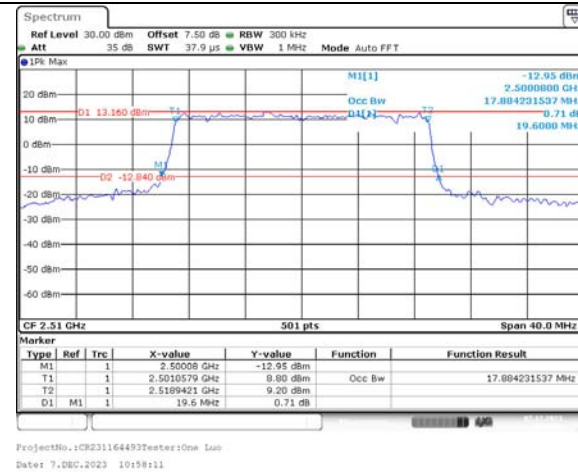
## Occupied Bandwidth

## Channel

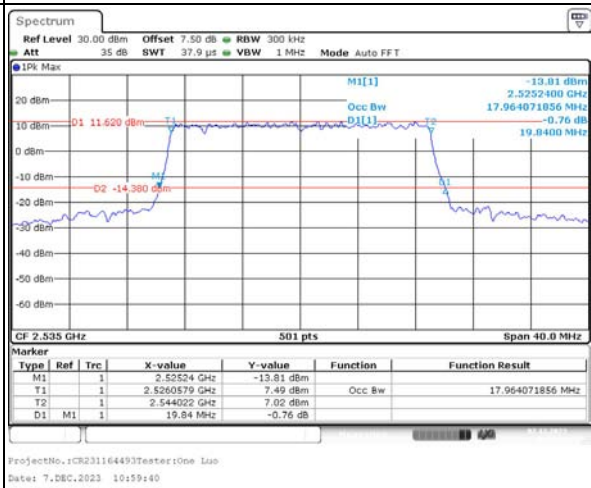
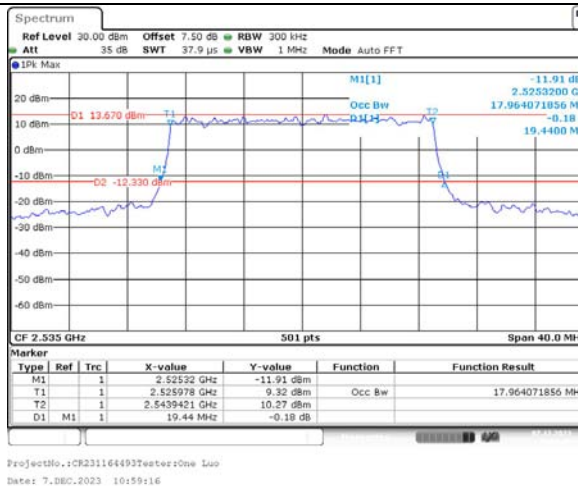
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

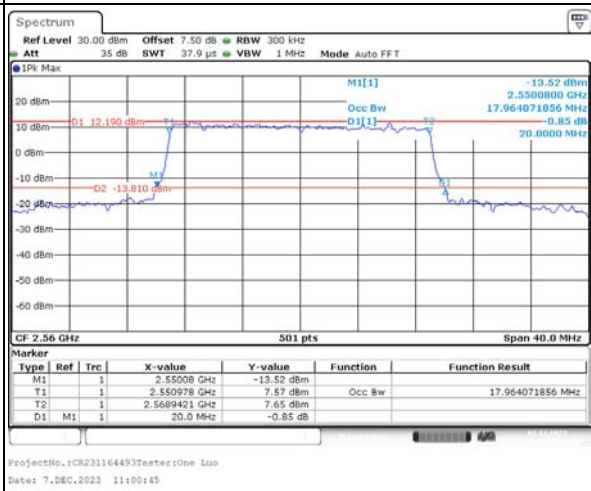
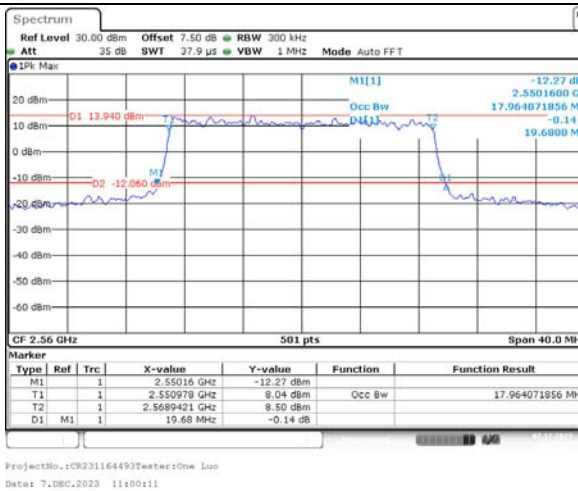
Lowest



Middle



Highest

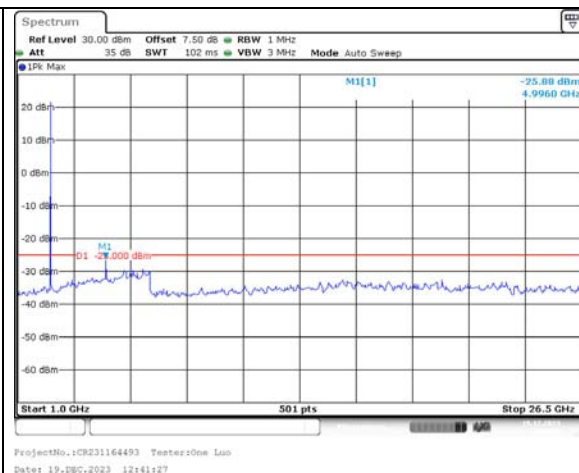
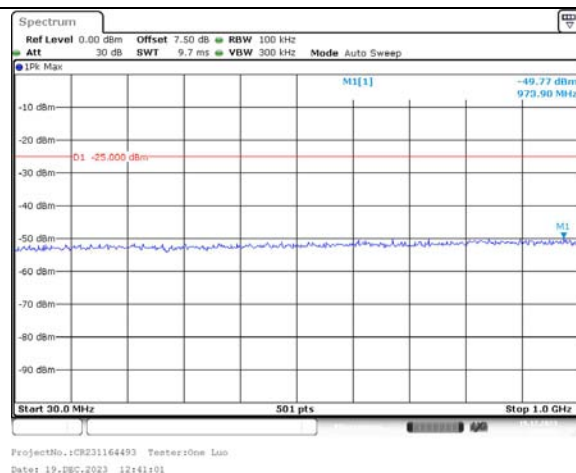


## Spurious Emissions at Antenna Terminal

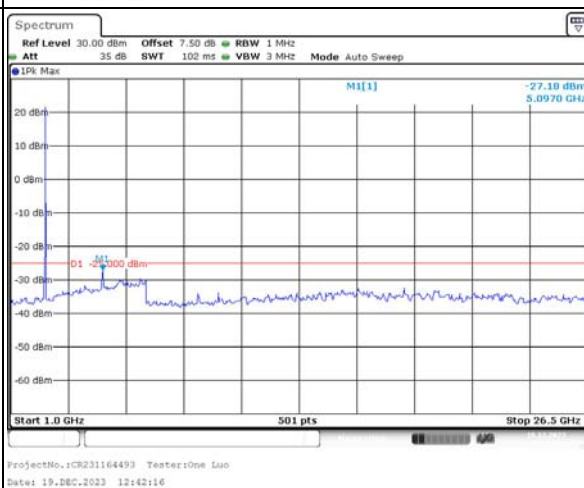
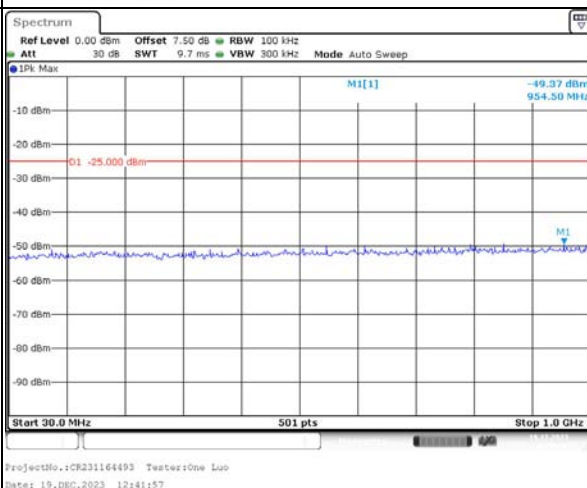
Channel

5MHz Bandwidth QPSK

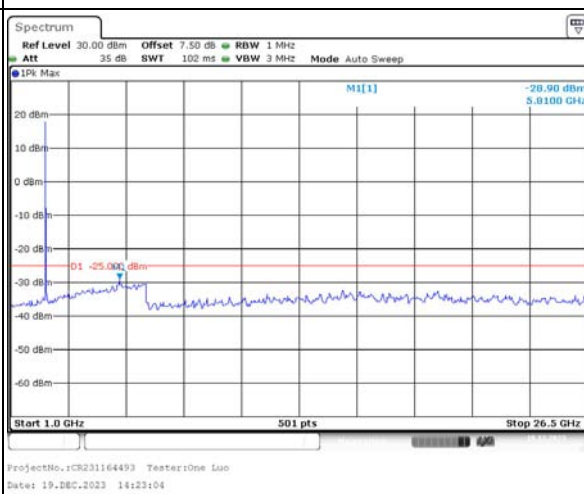
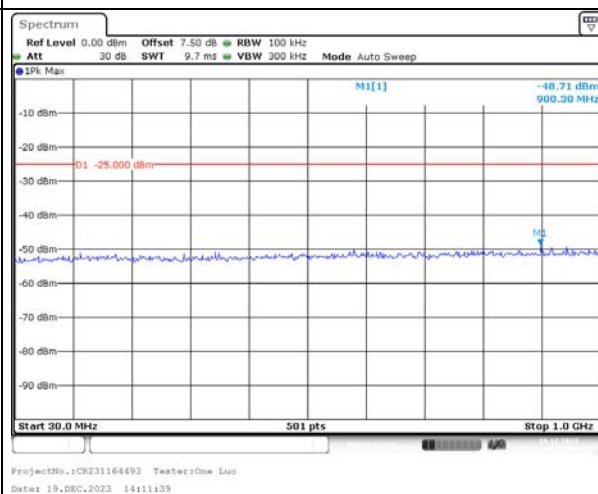
Lowest



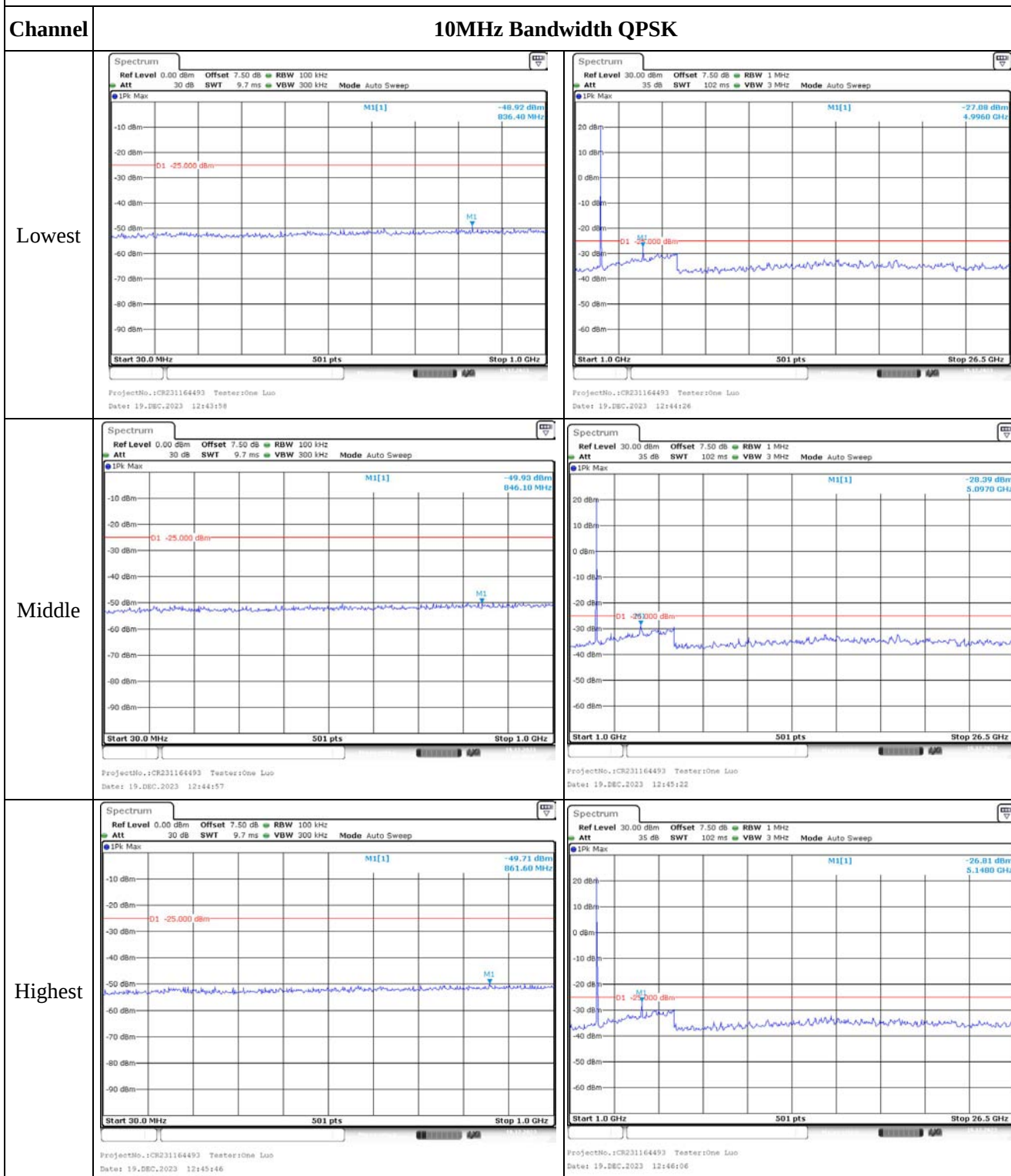
Middle



Highest



## Spurious Emissions at Antenna Terminal

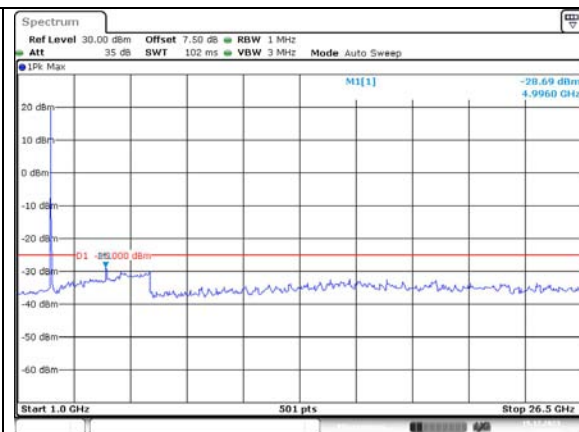
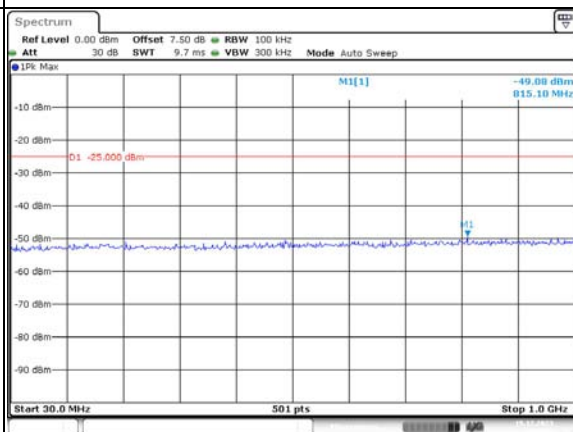


## Spurious Emissions at Antenna Terminal

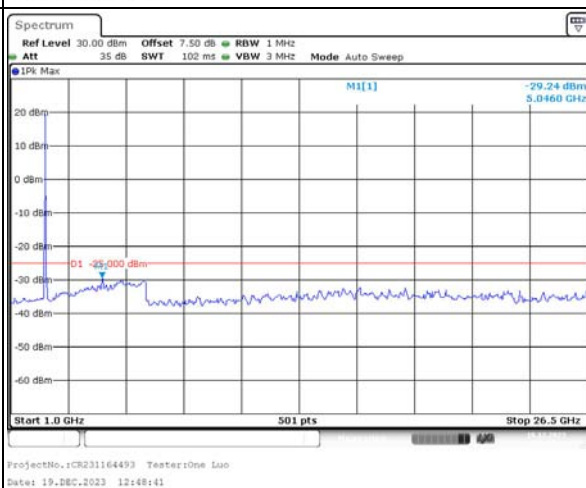
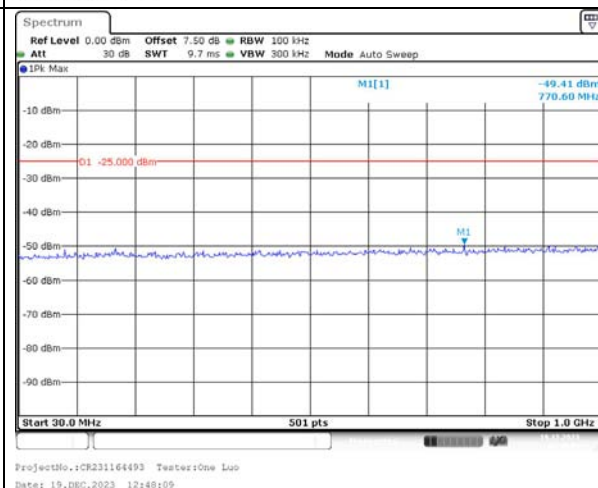
Channel

15MHz Bandwidth QPSK

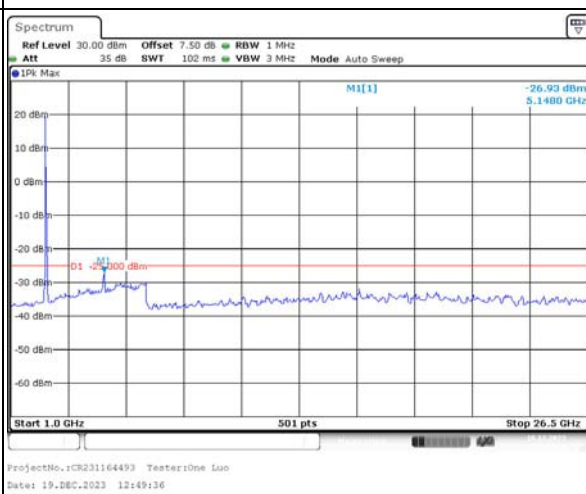
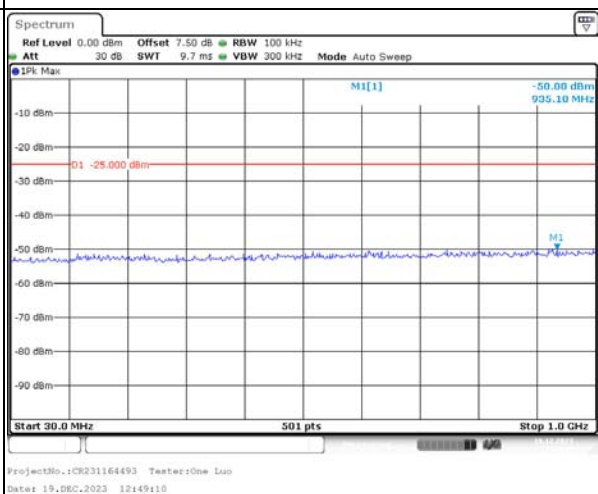
Lowest



Middle



Highest

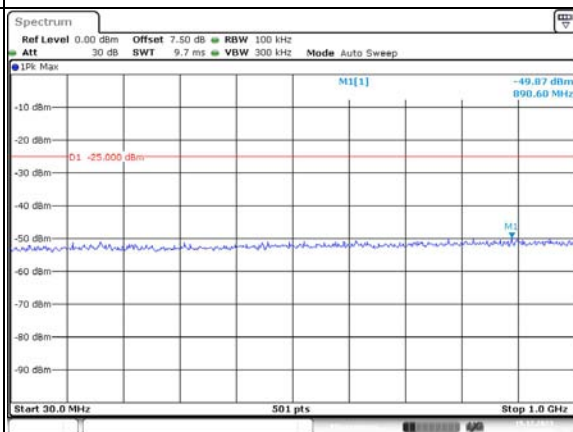


## Spurious Emissions at Antenna Terminal

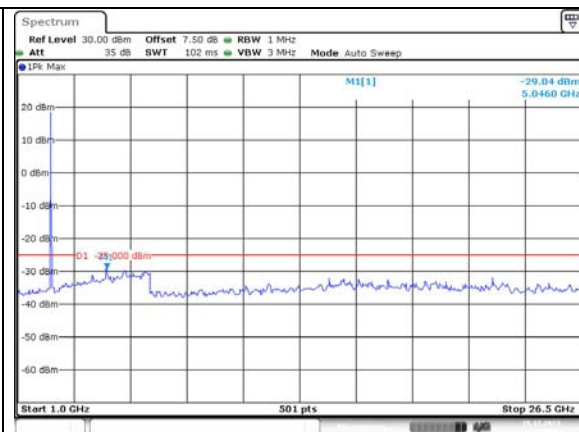
Channel

20MHz Bandwidth QPSK

Lowest

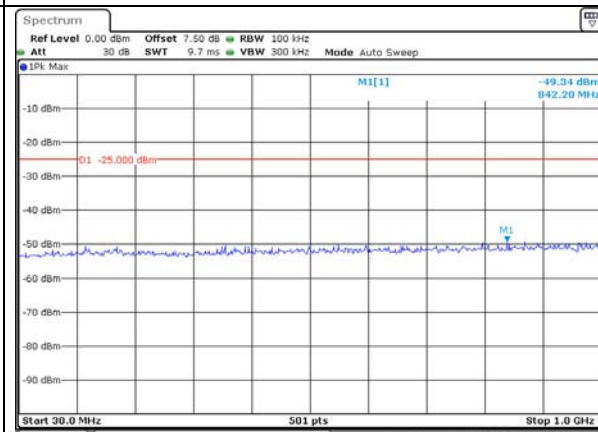


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 12:51:17

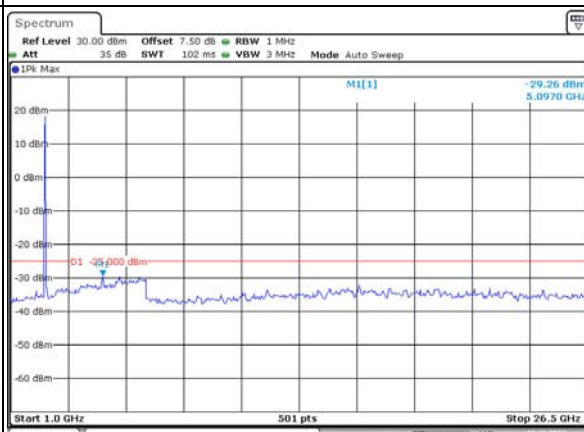


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 12:51:43

Middle

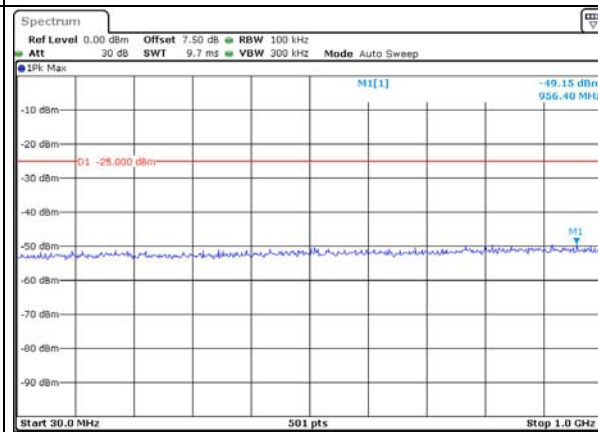


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Date: 19.DEC.2023 12:52:19

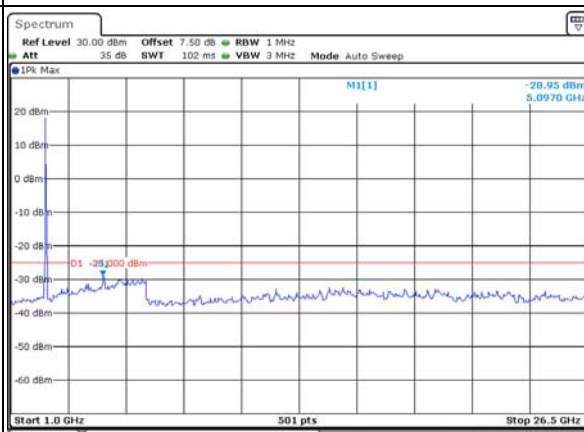


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 12:52:48

Highest

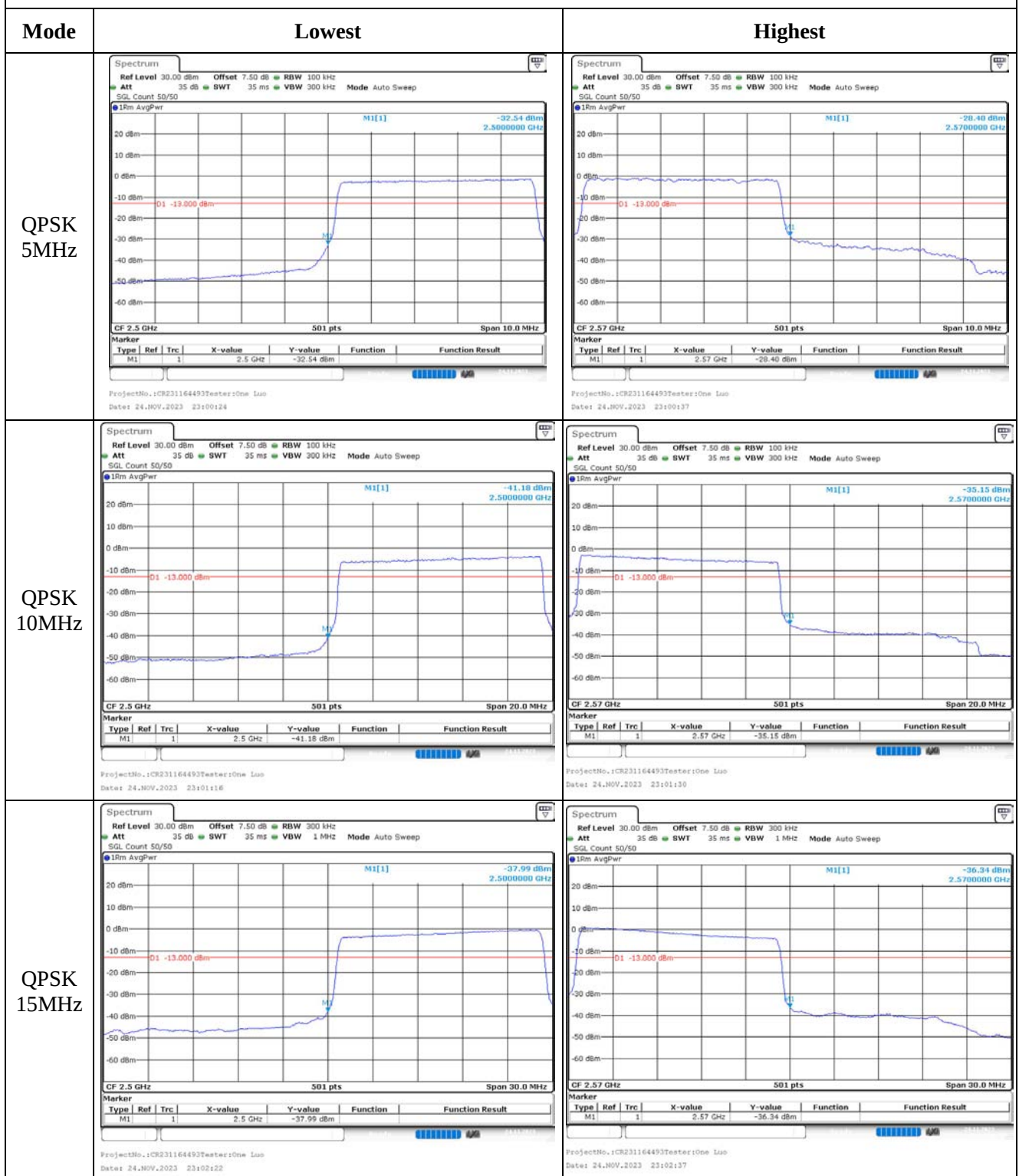


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 12:53:25

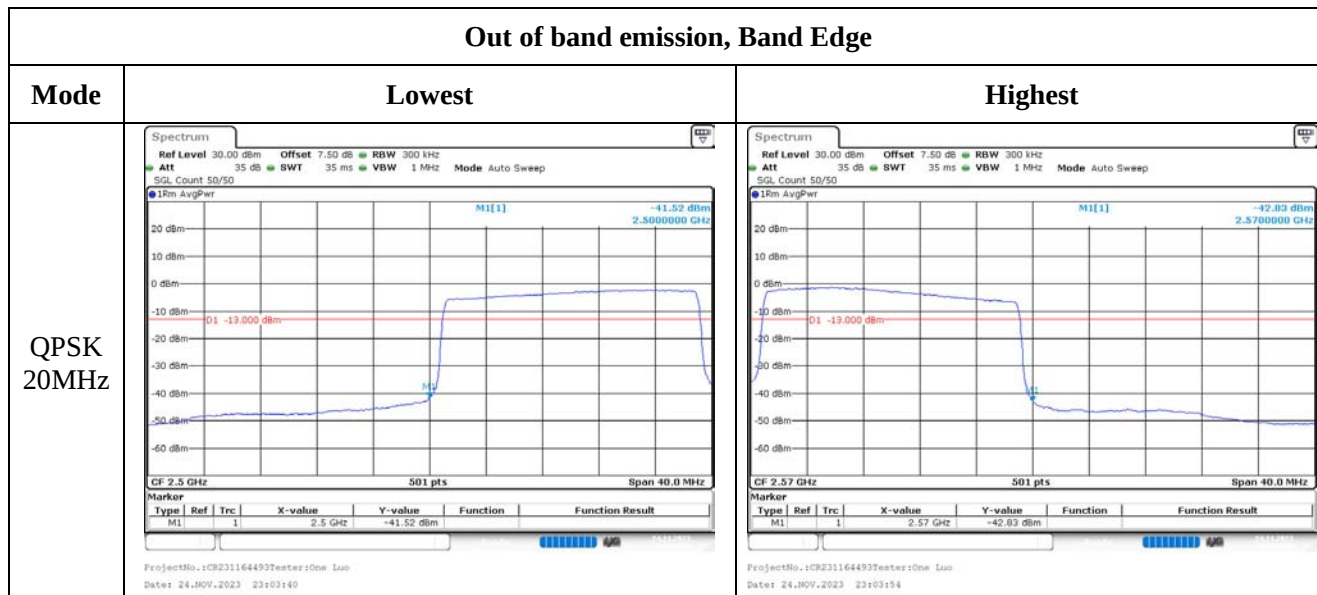


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 12:53:50

## Out of band emission, Band Edge



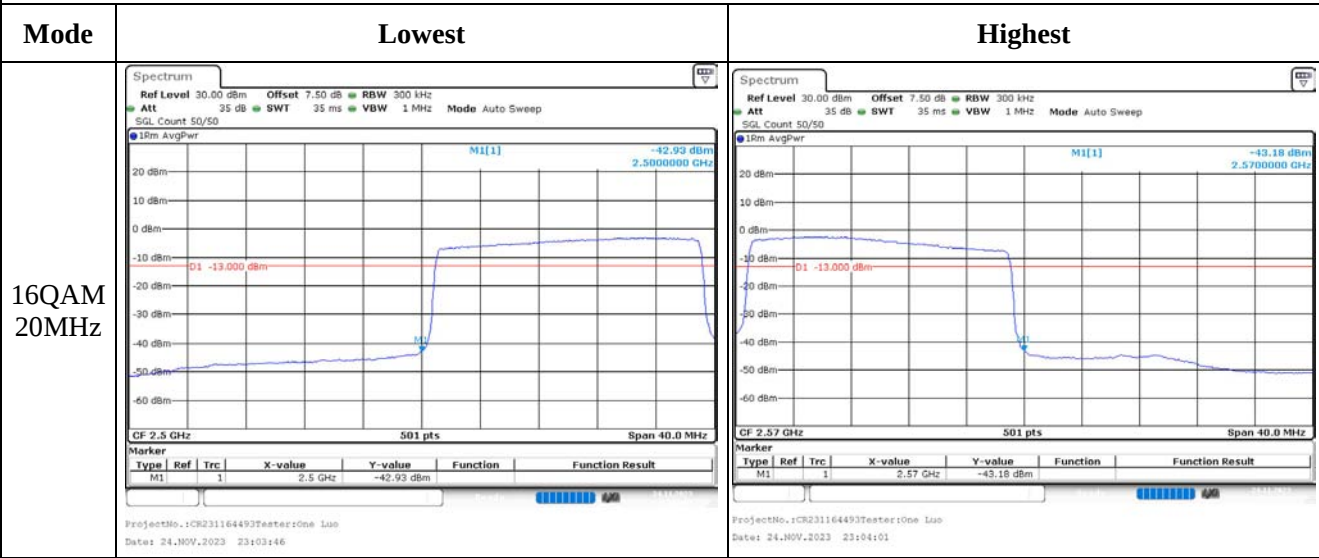
## Out of band emission, Band Edge



## Out of band emission, Band Edge

| Mode           | Lowest                                                                     | Highest                                                                    |
|----------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 16QAM<br>5MHz  | <p>ProjectNo.:CR231164493Tester:One Luo<br/>Date: 24.NOV.2023 23:00:30</p> | <p>ProjectNo.:CR231164493Tester:One Luo<br/>Date: 24.NOV.2023 23:00:43</p> |
| 16QAM<br>10MHz | <p>ProjectNo.:CR231164493Tester:One Luo<br/>Date: 24.NOV.2023 23:01:22</p> | <p>ProjectNo.:CR231164493Tester:One Luo<br/>Date: 24.NOV.2023 23:01:36</p> |
| 16QAM<br>15MHz | <p>ProjectNo.:CR231164493Tester:One Luo<br/>Date: 24.NOV.2023 23:02:29</p> | <p>ProjectNo.:CR231164493Tester:One Luo<br/>Date: 24.NOV.2023 23:02:43</p> |

Out of band emission, Band Edge



**4.10 Antenna Port Test Data and Results for LTE Band 12**

|                |         |              |                       |
|----------------|---------|--------------|-----------------------|
| Serial Number: | 2D1L-2  | Test Date:   | 2023/11/24~2023/12/20 |
| Test Site:     | RF      | Test Mode:   | Transmitting          |
| Tester:        | One Luo | Test Result: | Pass                  |

**Environmental Conditions:**

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 22.3~25.8 | Relative Humidity:<br>(%) | 31~52 | ATM Pressure:<br>(kPa) | 100.9~101.9 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model      | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40      | 101474          | 2023/3/31        | 2024/3/30            |
| zhuoxiang     | Coaxial Cable                       | SMA-178    | 211001          | Each time        | N/A                  |
| YINSAIGE      | Coaxial Cable                       | SS402      | SJ0100001       | Each time        | N/A                  |
| Mini-Circuits | DC Block                            | BLK-18-S+  | 1554403         | Each time        | N/A                  |
| Weinschel     | Power Splitter                      | 1515       | RA914           | Each time        | N/A                  |
| R&S           | Wideband Radio Communication Tester | CMW500     | 143458          | 2023/3/31        | 2024/3/30            |
| BACL          | TEMP&HUMI Test Chamber              | BTH-150-40 | 30174           | 2023/3/31        | 2024/3/30            |
| UNI-T         | Multimeter                          | UT39A+     | C210582554      | 2023/9/29        | 2024/9/28            |
| ZHAOXIN       | DC Power Supply                     | RXN-6010D  | 21R6010D0912386 | N/A              | N/A                  |

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency for Each Mode:**

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 1.4MHz              | 699.7                  | 707.5                  | 715.3                   |
| 3MHz                | 700.5                  | 707.5                  | 714.5                   |
| 5MHz                | 701.5                  | 707.5                  | 713.5                   |
| 10MHz               | 704                    | 707.5                  | 711                     |

**Test Data:**

| <b>RF Output Power</b>      |                            |                                     |                |                 |                   |                 |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|-------------------|-----------------|
| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum ERP (dBm) | ERP Limit (dBm) |
|                             |                            | Lowest Channel                      | Middle Channel | Highest Channel |                   |                 |
| 1.4MHz QPSK                 | RB1#0                      | 24.04                               | 23.52          | 23.43           | 16.75             | 34.77           |
|                             | RB1#3                      | <b>24.16</b>                        | 23.63          | 23.6            |                   |                 |
|                             | RB1#5                      | 24.02                               | 23.44          | 23.43           |                   |                 |
|                             | RB3#0                      | 24                                  | 23.56          | 23.51           |                   |                 |
|                             | RB3#3                      | 23.61                               | 23.54          | 23.51           |                   |                 |
|                             | RB6#0                      | 22.84                               | 22.58          | 22.51           |                   |                 |
| 1.4MHz 16QAM                | RB1#0                      | 22.49                               | 22.57          | 22.38           | 15.4              | 34.77           |
|                             | RB1#3                      | <b>22.81</b>                        | 22.72          | 22.62           |                   |                 |
|                             | RB1#5                      | 22.55                               | 22.58          | 22.47           |                   |                 |
|                             | RB3#0                      | 22.77                               | 22.5           | 22.55           |                   |                 |
|                             | RB3#3                      | 22.76                               | 22.55          | 22.55           |                   |                 |
|                             | RB6#0                      | 21.66                               | 21.55          | 21.44           |                   |                 |
| 3MHz QPSK                   | RB1#0                      | <b>24.19</b>                        | 24.07          | 23.57           | 16.78             | 34.77           |
|                             | RB1#8                      | 24.15                               | 23.61          | 23.58           |                   |                 |
|                             | RB1#14                     | 24.11                               | 23.61          | 23.56           |                   |                 |
|                             | RB6#0                      | 23.13                               | 22.54          | 22.54           |                   |                 |
|                             | RB6#9                      | 23.06                               | 22.57          | 22.57           |                   |                 |
|                             | RB15#0                     | 23.11                               | 22.55          | 22.57           |                   |                 |
| 3MHz 16QAM                  | RB1#0                      | 23.14                               | <b>23.17</b>   | 22.65           | 15.76             | 34.77           |
|                             | RB1#8                      | 23.11                               | 23.13          | 22.65           |                   |                 |
|                             | RB1#14                     | 23.1                                | 23.07          | 22.68           |                   |                 |
|                             | RB6#0                      | 22.06                               | 21.59          | 21.57           |                   |                 |
|                             | RB6#9                      | 21.98                               | 21.58          | 21.58           |                   |                 |
|                             | RB15#0                     | 22.17                               | 21.61          | 21.5            |                   |                 |
| 5MHz QPSK                   | RB1#0                      | 24.09                               | 23.61          | 23.49           | 16.78             | 34.77           |
|                             | RB1#13                     | <b>24.19</b>                        | 23.65          | 23.65           |                   |                 |
|                             | RB1#24                     | 24.06                               | 23.50          | 23.48           |                   |                 |
|                             | RB15#0                     | 23.32                               | 22.48          | 22.75           |                   |                 |
|                             | RB15#10                    | 23.10                               | 22.66          | 22.60           |                   |                 |
|                             | RB25#0                     | 23.17                               | 22.56          | 22.65           |                   |                 |
| 5MHz 16QAM                  | RB1#0                      | 23.05                               | 22.43          | 22.69           | 15.83             | 34.77           |
|                             | RB1#13                     | <b>23.24</b>                        | 22.52          | 22.89           |                   |                 |
|                             | RB1#24                     | 22.95                               | 22.37          | 22.76           |                   |                 |
|                             | RB15#0                     | 22.13                               | 21.53          | 21.70           |                   |                 |
|                             | RB15#10                    | 21.83                               | 21.69          | 21.56           |                   |                 |
|                             | RB25#0                     | 22.01                               | 21.59          | 21.67           |                   |                 |
| 10MHz QPSK                  | RB1#0                      | 24.2                                | 23.61          | 23.62           | 16.86             | 34.77           |
|                             | RB1#25                     | <b>24.27</b>                        | 23.71          | 23.66           |                   |                 |
|                             | RB1#49                     | 24.13                               | 23.52          | 23.61           |                   |                 |

|             |         |       |              |       |       |       |
|-------------|---------|-------|--------------|-------|-------|-------|
| 10MHz 16QAM | RB25#0  | 23.37 | 22.51        | 22.57 | 15.86 | 34.77 |
|             | RB25#25 | 23.41 | 22.57        | 22.45 |       |       |
|             | RB50#0  | 23.4  | 22.52        | 22.49 |       |       |
|             | RB1#0   | 23.03 | 23.18        | 22.72 |       |       |
|             | RB1#25  | 22.96 | <b>23.27</b> | 22.81 |       |       |
|             | RB1#49  | 22.62 | 23.05        | 22.71 |       |       |
|             | RB25#0  | 21.95 | 21.55        | 21.54 |       |       |
|             | RB25#25 | 21.95 | 21.62        | 21.44 |       |       |
|             | RB50#0  | 21.91 | 21.55        | 21.47 |       |       |

Note:

ERP= Conducted Power(dBm) - L<sub>c</sub>(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

Result: Pass

**Peak-to-average Ratio(PAR)**

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) |                |                 | Limit (dB) |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|------------|
|                             |                            | Lowest Channel            | Middle Channel | Highest Channel |            |
| 10MHz QPSK                  | RB1#0                      | 4.58                      | 5.22           | 5.83            | 13         |
|                             | RB50#0                     | 5.54                      | 5.19           | 5.1             | 13         |
| 10MHz 16QAM                 | RB1#0                      | 5.57                      | 5.88           | 6.72            | 13         |
|                             | RB50#0                     | 6.35                      | 6.14           | 5.97            | 13         |
| Result:                     |                            |                           |                |                 | Pass       |

**Occupied Bandwidth**

| Operation Mode | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle Channel | High Channel |
| 1.4MHz QPSK    | 1.096                        | 1.096          | 1.102        | 1.302                          | 1.314          | 1.302        |
| 1.4MHz 16QAM   | 1.096                        | 1.09           | 1.096        | 1.32                           | 1.284          | 1.296        |
| 3MHz QPSK      | 2.683                        | 2.683          | 2.683        | 2.88                           | 2.868          | 2.88         |
| 3MHz 16QAM     | 2.683                        | 2.683          | 2.683        | 2.892                          | 2.868          | 2.88         |
| 5MHz QPSK      | 4.531                        | 4.531          | 4.531        | 5.22                           | 5.18           | 5.22         |
| 5MHz 16QAM     | 4.531                        | 4.531          | 4.551        | 5.16                           | 5.2            | 5.26         |
| 10MHz QPSK     | 9.022                        | 8.942          | 8.942        | 10                             | 9.8            | 9.92         |
| 10MHz 16QAM    | 9.022                        | 8.942          | 8.942        | 9.8                            | 9.92           | 9.88         |

Note: The test plots please refer to the Plots of Occupied Bandwidth

**Spurious Emissions at Antenna Terminal**

|         |                                                                                 |
|---------|---------------------------------------------------------------------------------|
| Result: | Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal. |
|---------|---------------------------------------------------------------------------------|

**Out of band emission, Band Edge**

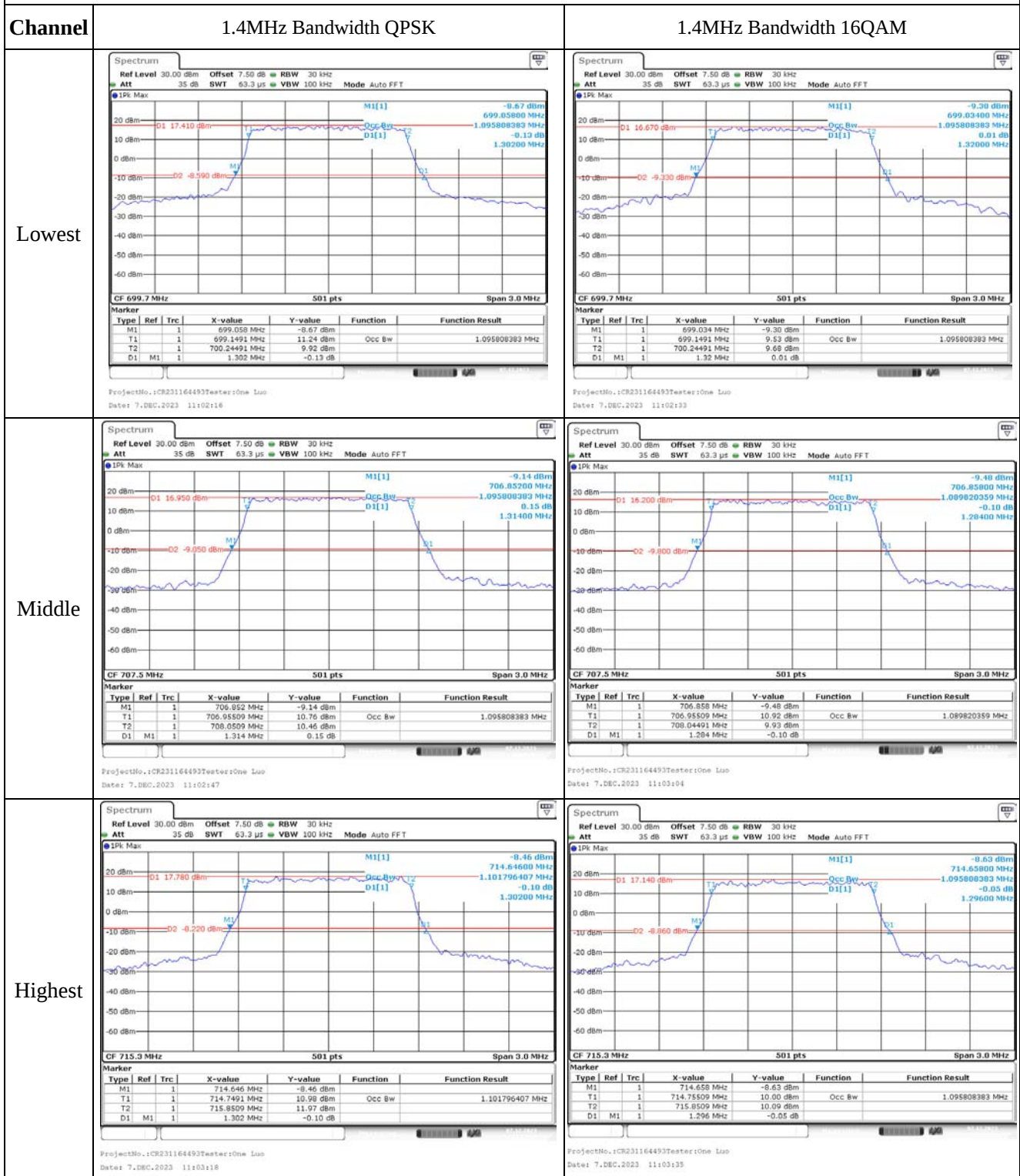
|         |                                                                          |
|---------|--------------------------------------------------------------------------|
| Result: | Pass, Please refer to the test plots of Out of band emission, Band Edge. |
|---------|--------------------------------------------------------------------------|

| Frequency Stability                 |                  |                                                            |                  |        |                  |             |
|-------------------------------------|------------------|------------------------------------------------------------|------------------|--------|------------------|-------------|
| Test Mode:                          | 10M QPSK         | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |        |                  |             |
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |        | Upper Edge (MHz) |             |
|                                     |                  |                                                            | Result           | Limit  | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.8                                                        | 699.458          | 699.00 | 715.411          | 716.00      |
|                                     | -20              | 3.8                                                        | 699.416          | 699.00 | 715.421          | 716.00      |
|                                     | -10              | 3.8                                                        | 699.495          | 699.00 | 715.442          | 716.00      |
|                                     | 0                | 3.8                                                        | 699.489          | 699.00 | 715.489          | 716.00      |
|                                     | 10               | 3.8                                                        | 699.407          | 699.00 | 715.469          | 716.00      |
|                                     | 20               | 3.8                                                        | 699.485          | 699.00 | 715.471          | 716.00      |
|                                     | 30               | 3.8                                                        | 699.445          | 699.00 | 715.405          | 716.00      |
|                                     | 40               | 3.8                                                        | 699.473          | 699.00 | 715.491          | 716.00      |
|                                     | 50               | 3.8                                                        | 699.451          | 699.00 | 715.491          | 716.00      |
| Frequency Stability vs. Voltage     | 20               | 3.2                                                        | 699.449          | 699.00 | 715.455          | 716.00      |
|                                     | 20               | 4.4                                                        | 699.441          | 699.00 | 715.440          | 716.00      |
|                                     |                  |                                                            |                  |        | <b>Result:</b>   | <b>Pass</b> |

| Test Mode:                          | 10M 16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |        |                  |             |
|-------------------------------------|------------------|------------------------------------------------------------|------------------|--------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |        | Upper Edge (MHz) |             |
|                                     |                  |                                                            | Result           | Limit  | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.8                                                        | 699.458          | 699.00 | 715.474          | 716.00      |
|                                     | -20              | 3.8                                                        | 699.447          | 699.00 | 715.460          | 716.00      |
|                                     | -10              | 3.8                                                        | 699.411          | 699.00 | 715.480          | 716.00      |
|                                     | 0                | 3.8                                                        | 699.402          | 699.00 | 715.405          | 716.00      |
|                                     | 10               | 3.8                                                        | 699.458          | 699.00 | 715.474          | 716.00      |
|                                     | 20               | 3.8                                                        | 699.489          | 699.00 | 715.471          | 716.00      |
|                                     | 30               | 3.8                                                        | 699.463          | 699.00 | 715.421          | 716.00      |
|                                     | 40               | 3.8                                                        | 699.423          | 699.00 | 715.466          | 716.00      |
|                                     | 50               | 3.8                                                        | 699.453          | 699.00 | 715.472          | 716.00      |
| Frequency Stability vs. Voltage     | 20               | 3.2                                                        | 699.406          | 699.00 | 715.420          | 716.00      |
|                                     | 20               | 4.4                                                        | 699.456          | 699.00 | 715.433          | 716.00      |
|                                     |                  |                                                            |                  |        | <b>Result:</b>   | <b>Pass</b> |

**Test Plots**(Note: The 7.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer.)

### Occupied Bandwidth



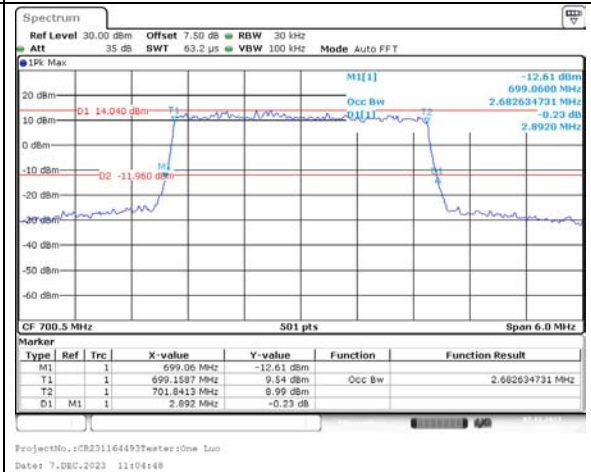
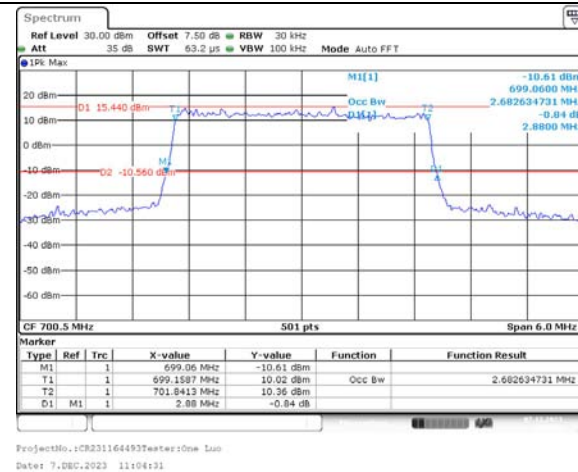
## Occupied Bandwidth

## Channel

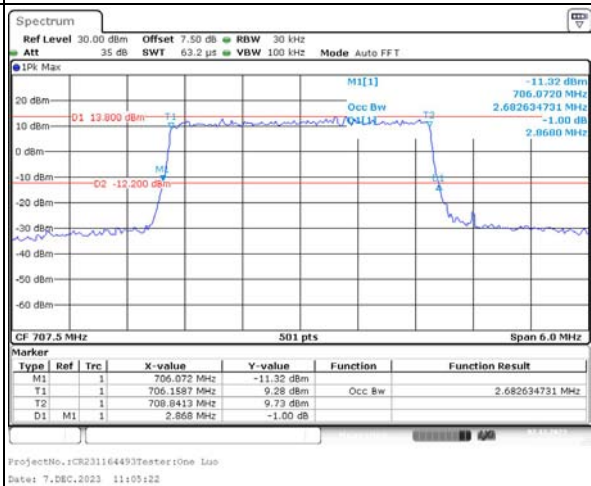
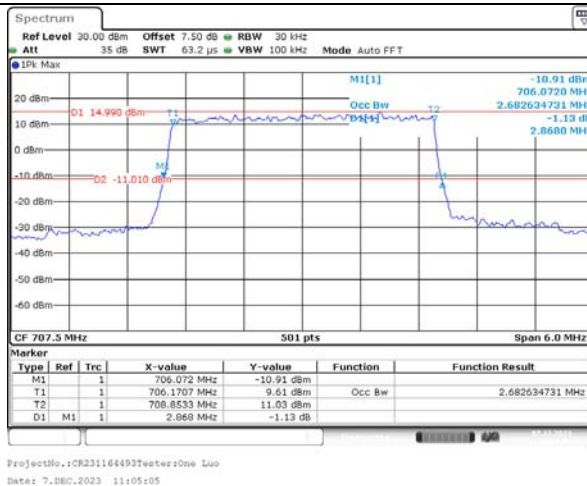
## 3MHz Bandwidth QPSK

## 3MHz Bandwidth 16QAM

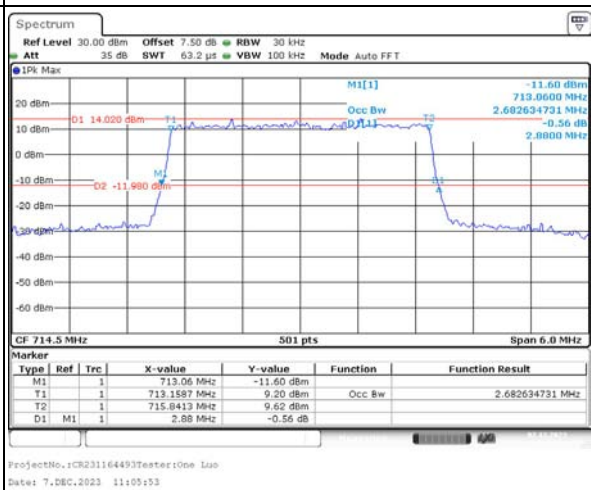
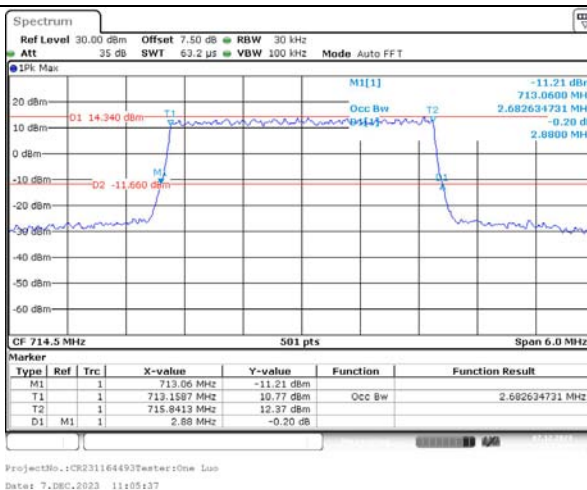
## Lowest



## Middle



## Highest



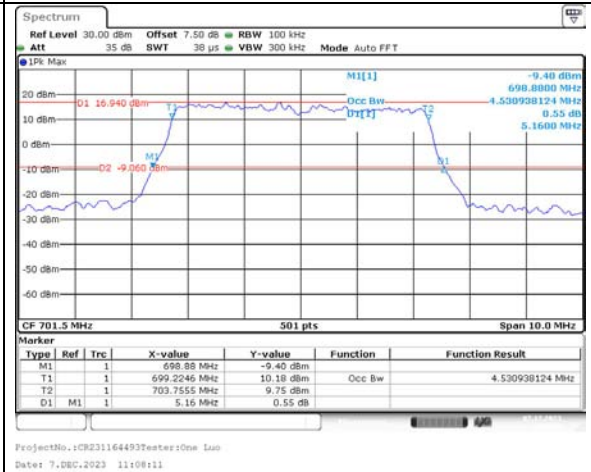
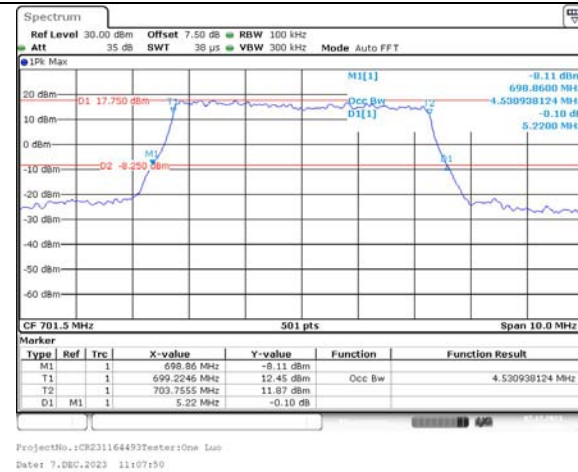
## Occupied Bandwidth

## Channel

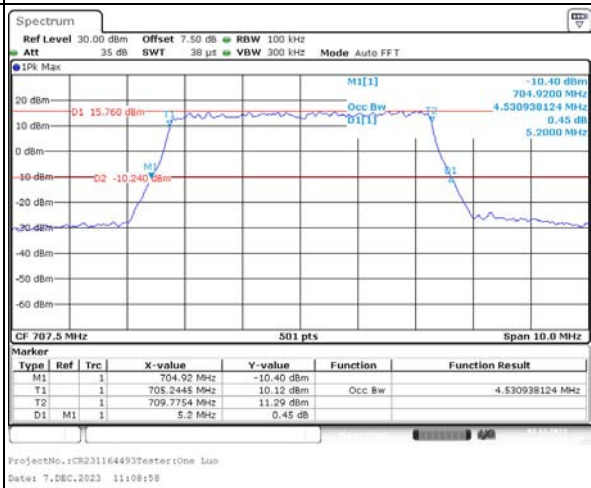
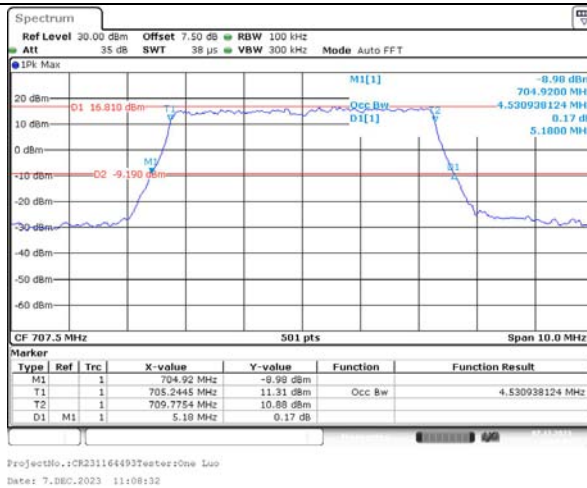
## 5MHz Bandwidth QPSK

## 5MHz Bandwidth 16QAM

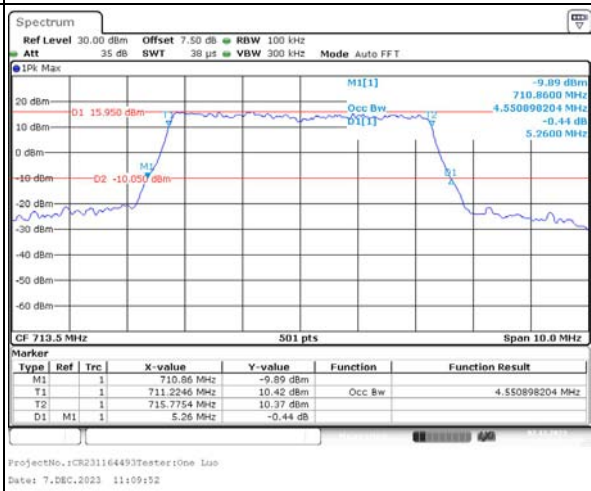
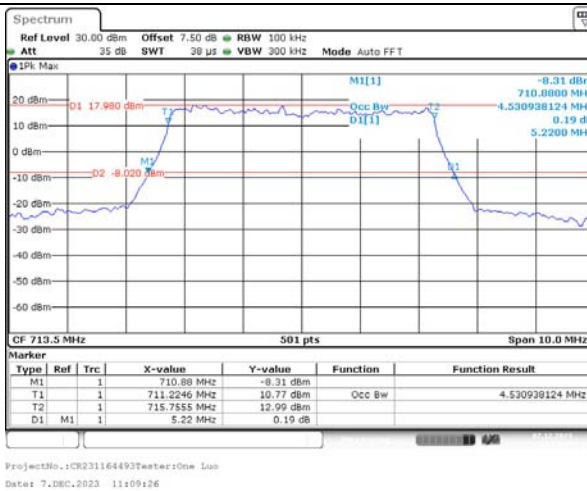
## Lowest



## Middle



## Highest



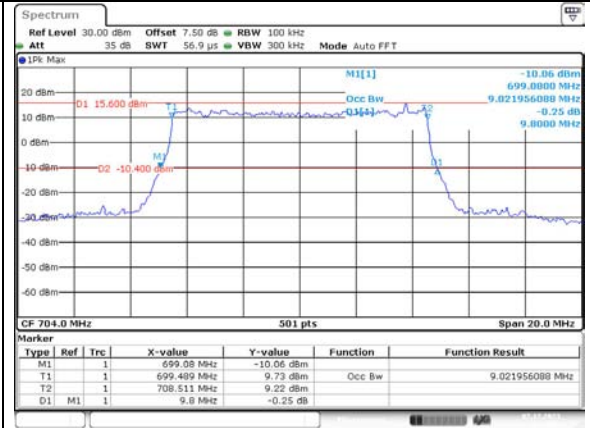
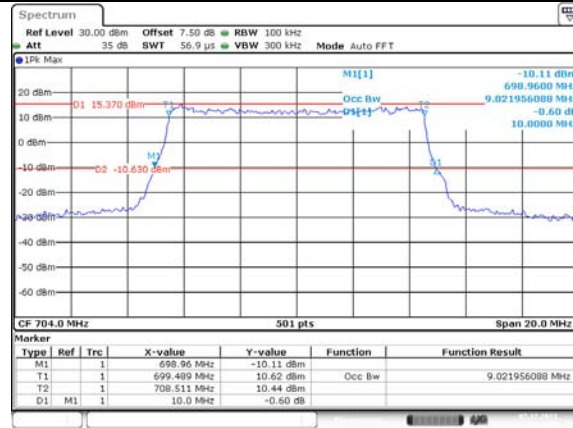
## Occupied Bandwidth

## Channel

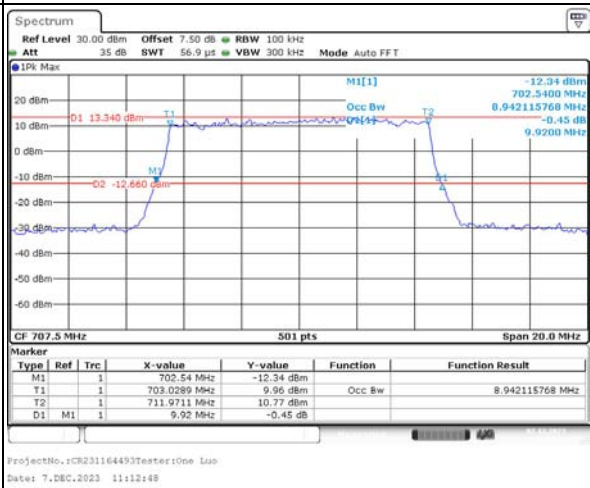
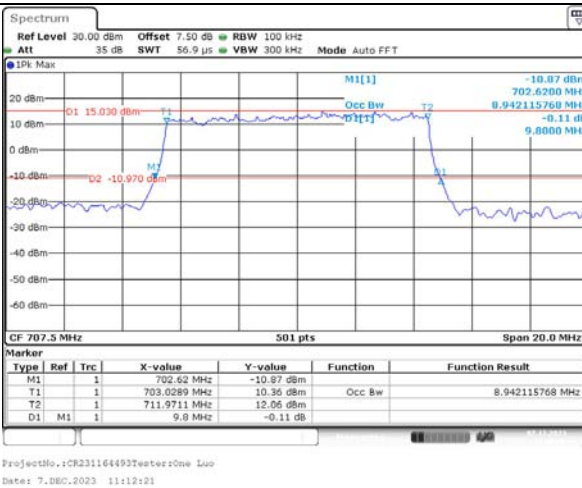
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

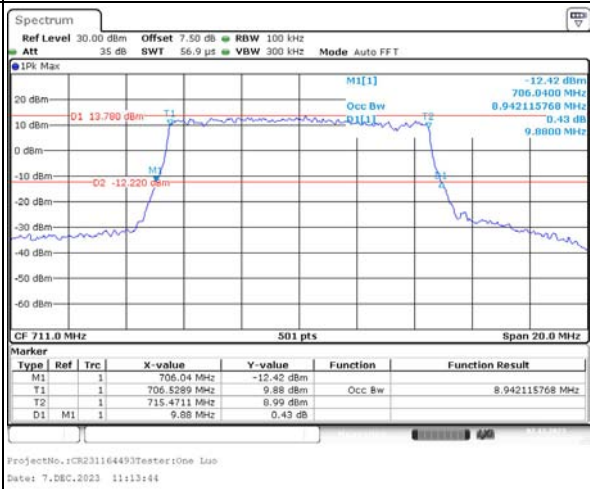
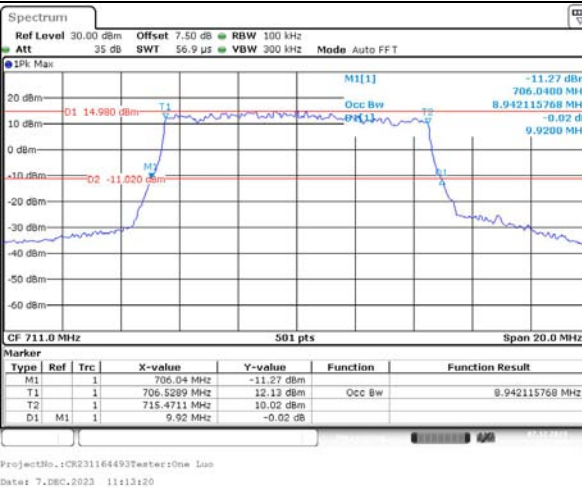
Lowest



Middle



Highest

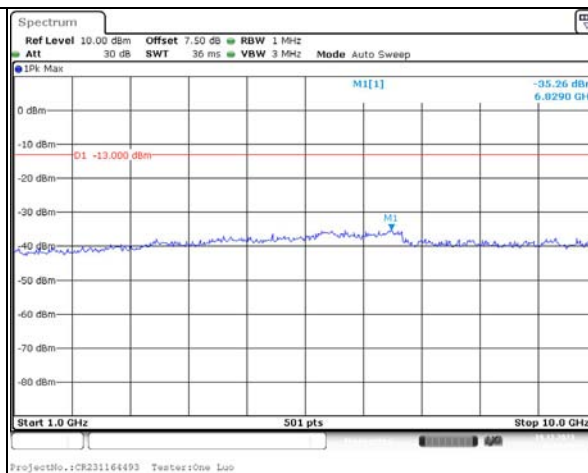
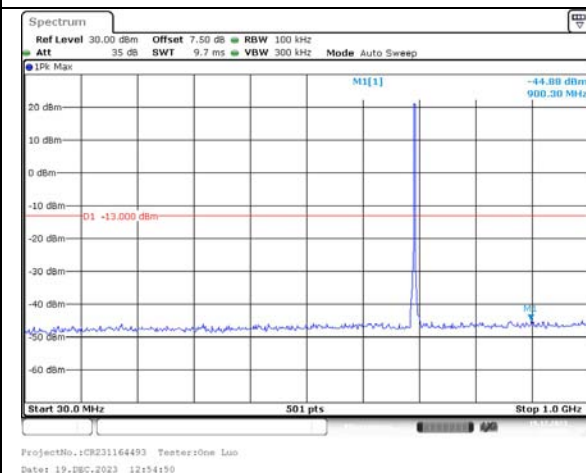


## Spurious Emissions at Antenna Terminal

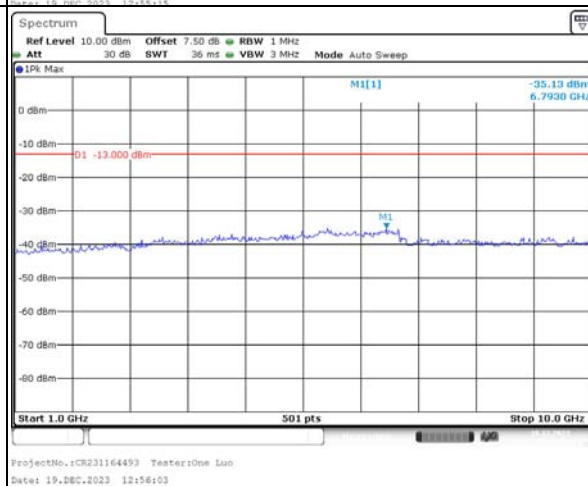
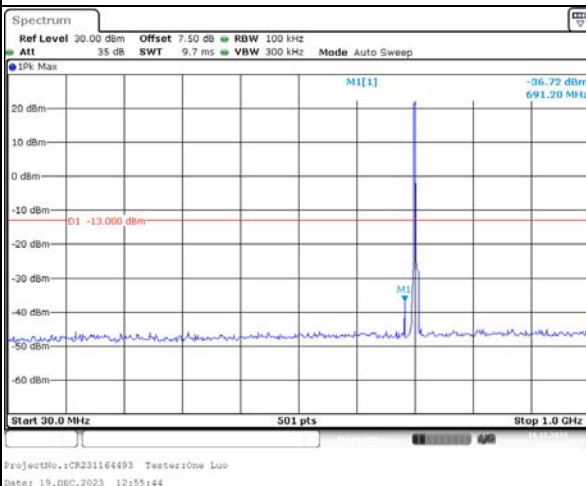
Channel

1.4MHz Bandwidth QPSK

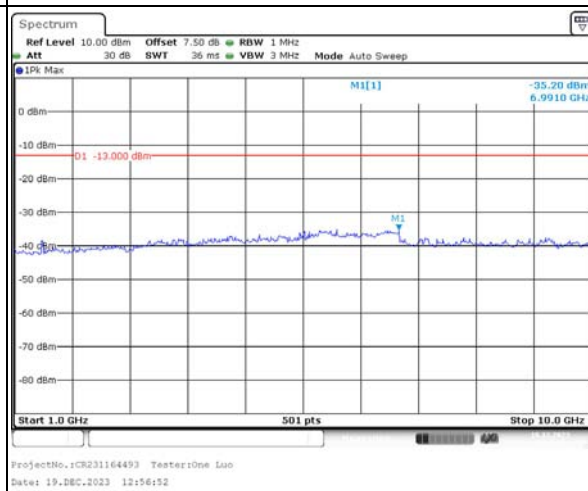
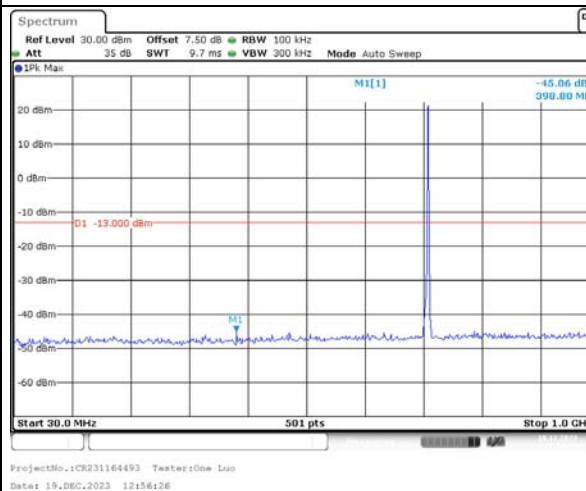
Lowest



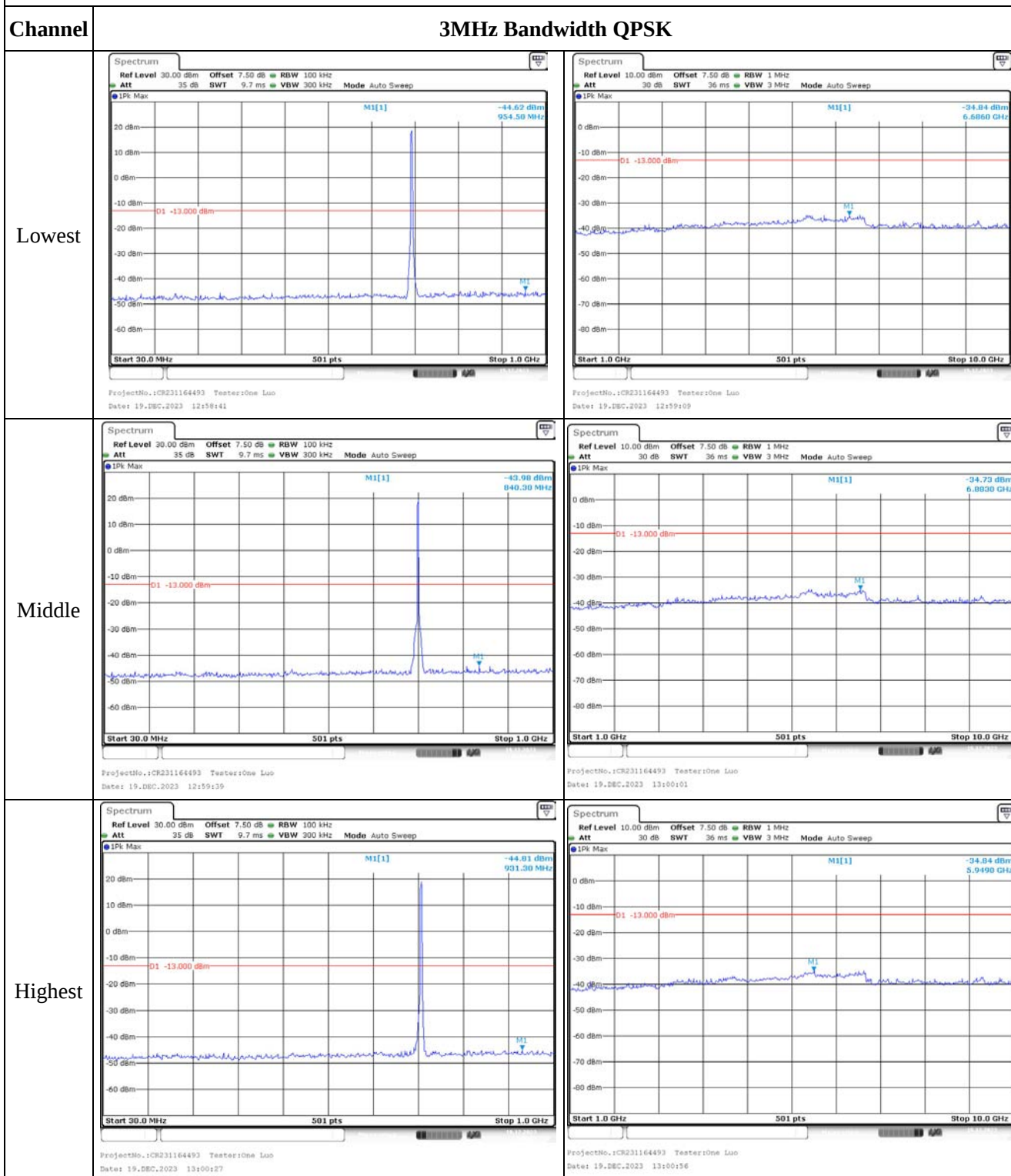
Middle



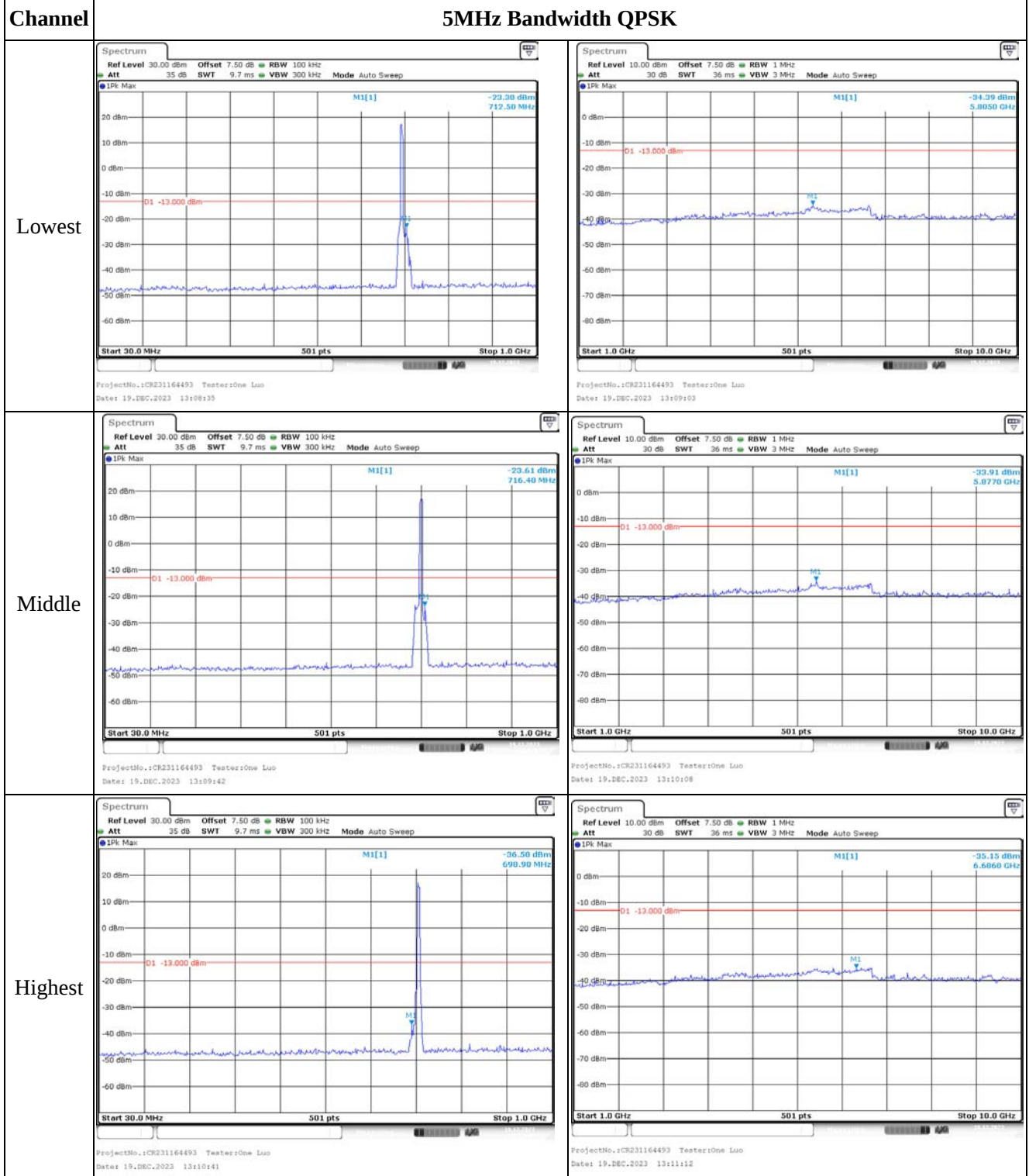
Highest



## Spurious Emissions at Antenna Terminal



## Spurious Emissions at Antenna Terminal

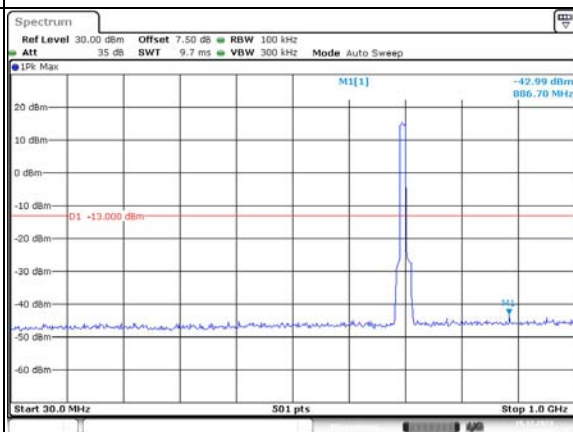


## Spurious Emissions at Antenna Terminal

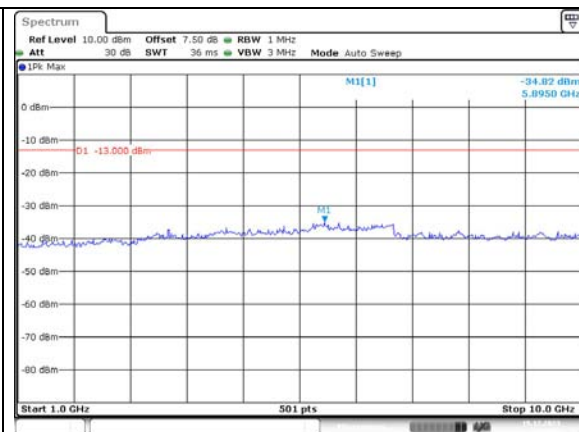
Channel

10MHz Bandwidth QPSK

Lowest

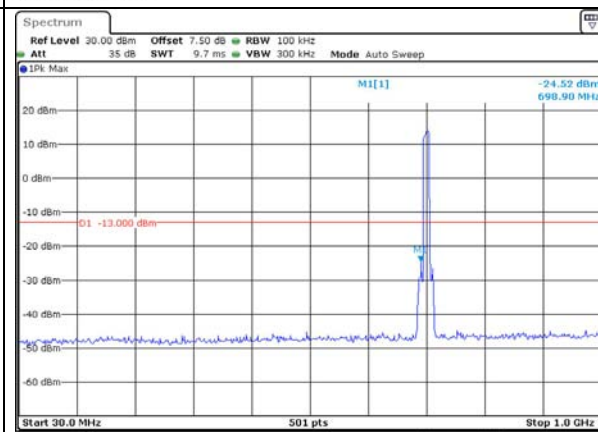


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 14:26:00

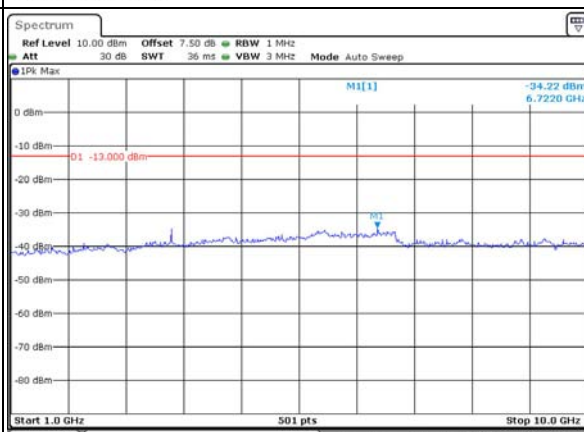


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 13:14:19

Middle

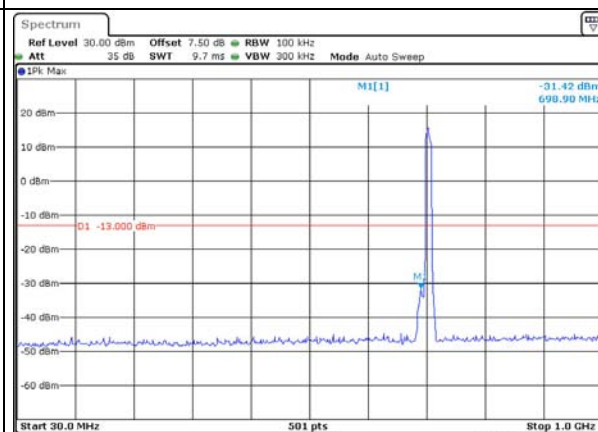


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 13:14:43

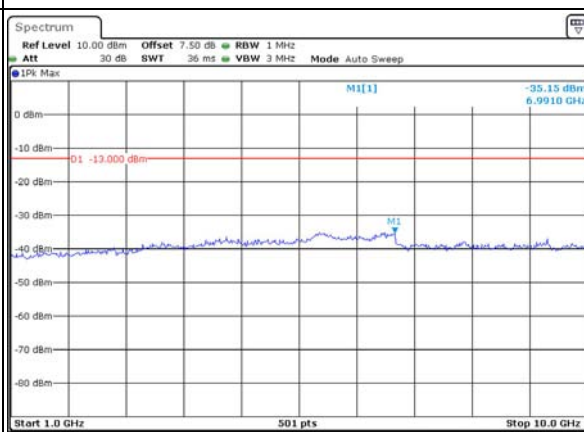


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 13:15:12

Highest

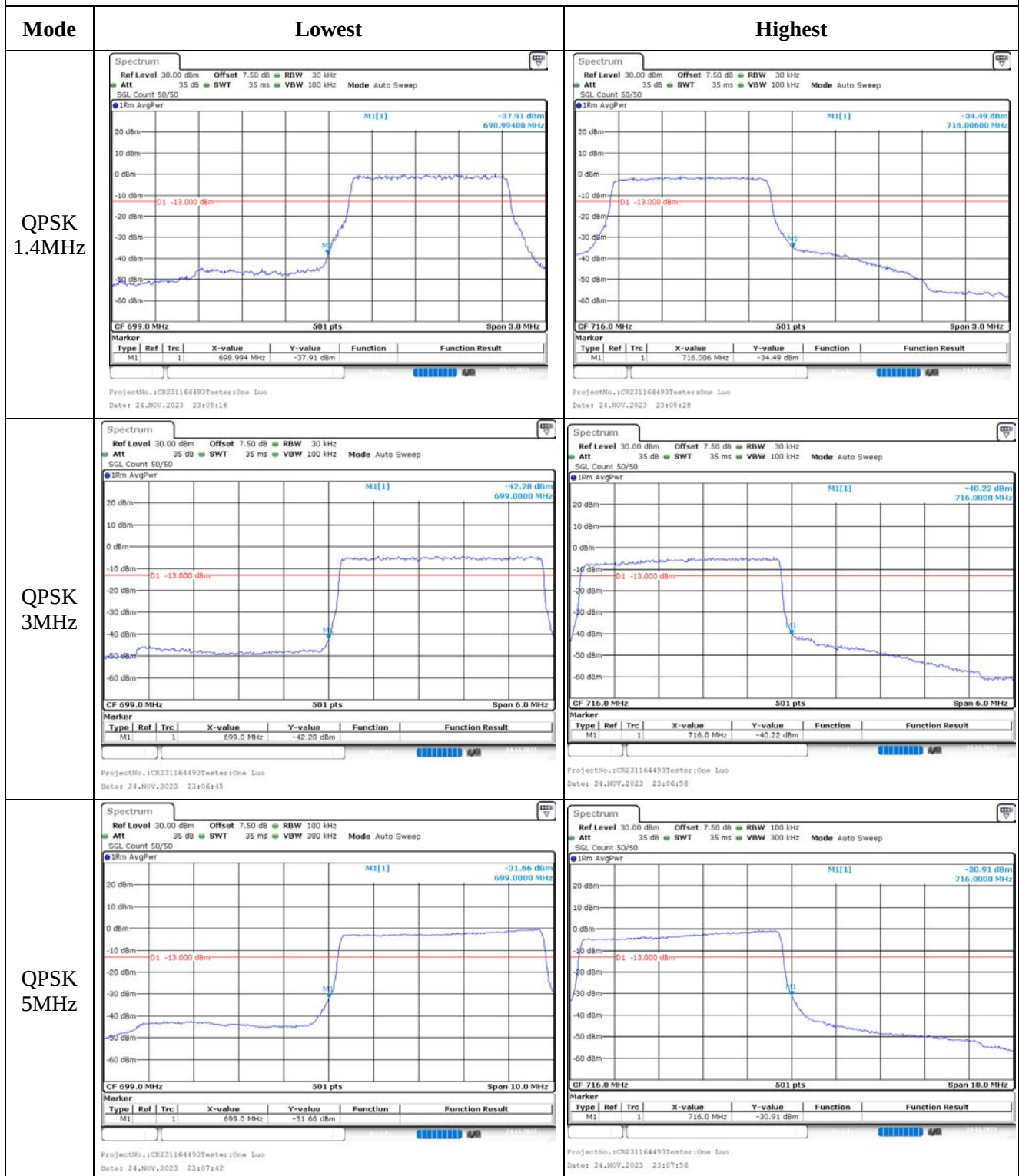


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 13:15:45

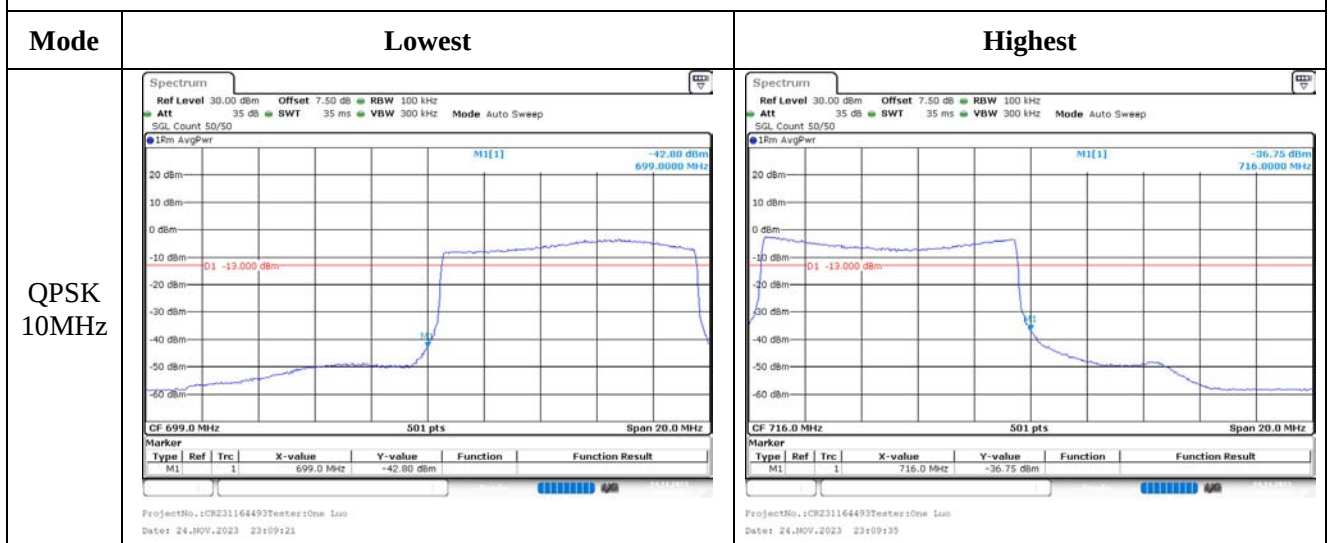


ProjectNo.:CR231164493 TestersOne Luo  
Date: 19.DEC.2023 13:16:10

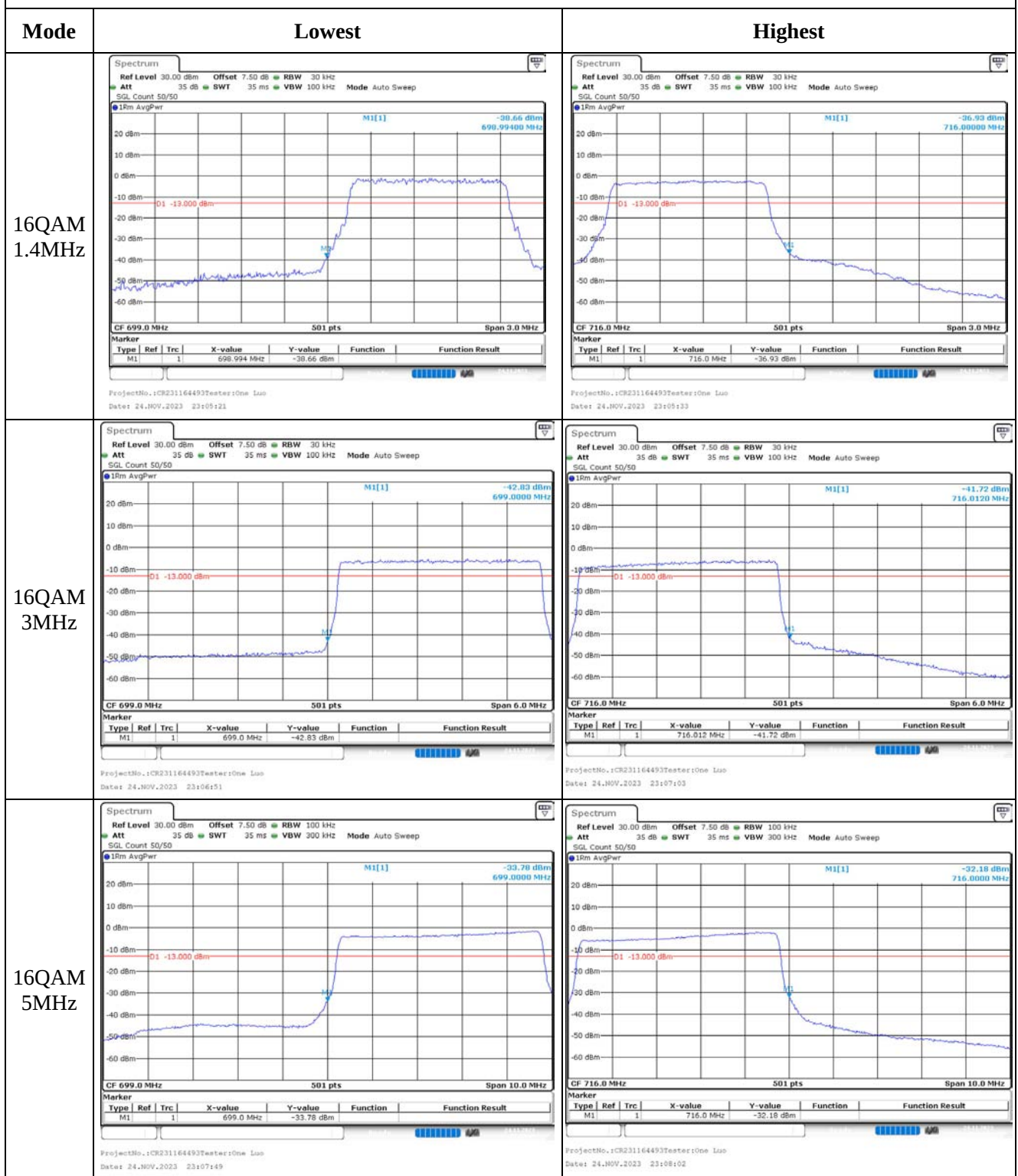
## Out of band emission, Band Edge



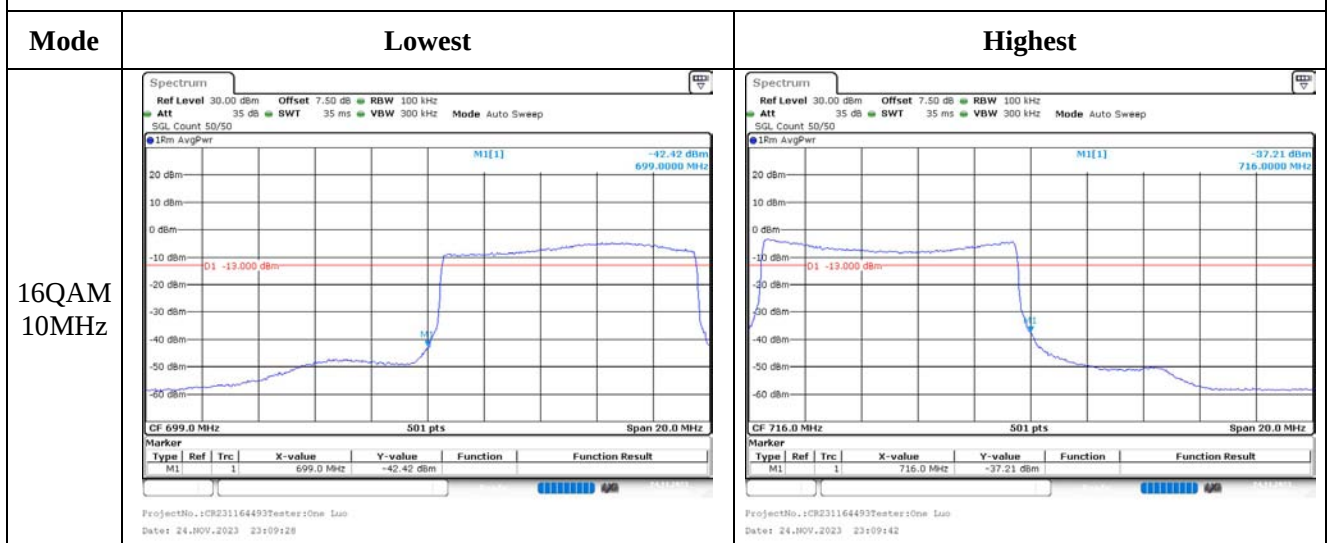
## Out of band emission, Band Edge



## Out of band emission, Band Edge



## Out of band emission, Band Edge



**4.11 Antenna Port Test Data and Results for LTE Band 17**

|                |         |              |                       |
|----------------|---------|--------------|-----------------------|
| Serial Number: | 2D1L-2  | Test Date:   | 2023/11/24~2023/12/20 |
| Test Site:     | RF      | Test Mode:   | Transmitting          |
| Tester:        | One Luo | Test Result: | Pass                  |

**Environmental Conditions:**

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 22.3~25.8 | Relative Humidity:<br>(%) | 31~52 | ATM Pressure:<br>(kPa) | 100.9~101.9 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model      | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40      | 101474          | 2023/3/31        | 2024/3/30            |
| zhuoxiang     | Coaxial Cable                       | SMA-178    | 211001          | Each time        | N/A                  |
| YINSAIGE      | Coaxial Cable                       | SS402      | SJ0100001       | Each time        | N/A                  |
| Mini-Circuits | DC Block                            | BLK-18-S+  | 1554403         | Each time        | N/A                  |
| Weinschel     | Power Splitter                      | 1515       | RA914           | Each time        | N/A                  |
| R&S           | Wideband Radio Communication Tester | CMW500     | 143458          | 2023/3/31        | 2024/3/30            |
| BACL          | TEMP&HUMI Test Chamber              | BTH-150-40 | 30174           | 2023/3/31        | 2024/3/30            |
| UNI-T         | Multimeter                          | UT39A+     | C210582554      | 2023/9/29        | 2024/9/28            |
| ZHAOXIN       | DC Power Supply                     | RXN-6010D  | 21R6010D0912386 | N/A              | N/A                  |

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency for Each Mode:**

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 5MHz                | 706.5                  | 710                    | 713.5                   |
| 10MHz               | 709                    | 710                    | 711                     |

**Test Data:****RF Output Power**

| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum ERP (dBm) | ERP Limit (dBm) |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|-------------------|-----------------|
|                             |                            | Lowest Channel                      | Middle Channel | Highest Channel |                   |                 |
| 5MHz QPSK                   | RB1#0                      | 23.59                               | 23.51          | 23.48           | 16.04             | 34.77           |
|                             | RB1#13                     | <b>23.69</b>                        | 23.65          | 23.63           |                   |                 |
|                             | RB1#24                     | 23.52                               | 23.44          | 23.52           |                   |                 |
|                             | RB15#0                     | 22.51                               | 22.58          | 22.77           |                   |                 |
|                             | RB15#10                    | 22.72                               | 22.43          | 22.65           |                   |                 |
|                             | RB25#0                     | 22.62                               | 22.45          | 22.63           |                   |                 |
| 5MHz 16QAM                  | RB1#0                      | 22.87                               | 22.61          | 22.33           | 15.27             | 34.77           |
|                             | RB1#13                     | <b>22.92</b>                        | 22.65          | 22.5            |                   |                 |
|                             | RB1#24                     | 22.76                               | 22.47          | 22.38           |                   |                 |
|                             | RB15#0                     | 21.48                               | 21.59          | 21.8            |                   |                 |
|                             | RB15#10                    | 21.69                               | 21.49          | 21.66           |                   |                 |
|                             | RB25#0                     | 21.64                               | 21.49          | 21.7            |                   |                 |
| 10MHz QPSK                  | RB1#0                      | 24.14                               | 23.64          | 23.65           | 16.58             | 34.77           |
|                             | RB1#25                     | <b>24.23</b>                        | 23.74          | 23.72           |                   |                 |
|                             | RB1#49                     | 24.05                               | 23.62          | 23.64           |                   |                 |
|                             | RB25#0                     | 22.89                               | 22.43          | 22.53           |                   |                 |
|                             | RB25#25                    | 22.7                                | 22.37          | 22.43           |                   |                 |
|                             | RB50#0                     | 22.75                               | 22.4           | 22.48           |                   |                 |
| 10MHz 16QAM                 | RB1#0                      | 23.2                                | 22.76          | 22.62           | 15.63             | 34.77           |
|                             | RB1#25                     | <b>23.28</b>                        | 22.75          | 22.7            |                   |                 |
|                             | RB1#49                     | 23.1                                | 22.72          | 22.58           |                   |                 |
|                             | RB25#0                     | 21.48                               | 21.46          | 21.62           |                   |                 |
|                             | RB25#25                    | 21.39                               | 21.33          | 21.52           |                   |                 |
|                             | RB50#0                     | 21.41                               | 21.39          | 21.51           |                   |                 |

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15**Result:****Pass****Peak-to-average Ratio(PAR)**

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) |                |                 | Limit (dB)  |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|-------------|
|                             |                            | Lowest Channel            | Middle Channel | Highest Channel |             |
| 10MHz QPSK                  | RB1#0                      | 5.65                      | 5.62           | 5.8             | 13          |
|                             | RB50#0                     | 5.07                      | 5.01           | 5.13            | 13          |
| 10MHz 16QAM                 | RB1#0                      | 6.64                      | 6.23           | 6.7             | 13          |
|                             | RB50#0                     | 6                         | 6              | 5.97            | 13          |
| <b>Result:</b>              |                            |                           |                |                 | <b>Pass</b> |

**Occupied Bandwidth**

| Operation Mode                                                       | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------------------------------------------------------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                                                                      | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle Channel | High Channel |
| 5MHz QPSK                                                            | 4.531                        | 4.511          | 4.551        | 5.18                           | 5.16           | 5.24         |
| 5MHz 16QAM                                                           | 4.531                        | 4.551          | 4.531        | 5.22                           | 5.22           | 5.22         |
| 10MHz QPSK                                                           | 8.942                        | 8.942          | 8.942        | 9.92                           | 9.72           | 9.88         |
| 10MHz 16QAM                                                          | 8.942                        | 8.942          | 8.982        | 9.8                            | 9.8            | 9.84         |
| Note: The test plots please refer to the Plots of Occupied Bandwidth |                              |                |              |                                |                |              |

**Spurious Emissions at Antenna Terminal**

|                |                                                                                        |
|----------------|----------------------------------------------------------------------------------------|
| <b>Result:</b> | <b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b> |
|----------------|----------------------------------------------------------------------------------------|

**Out of band emission, Band Edge**

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| <b>Result:</b> | <b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b> |
|----------------|---------------------------------------------------------------------------------|

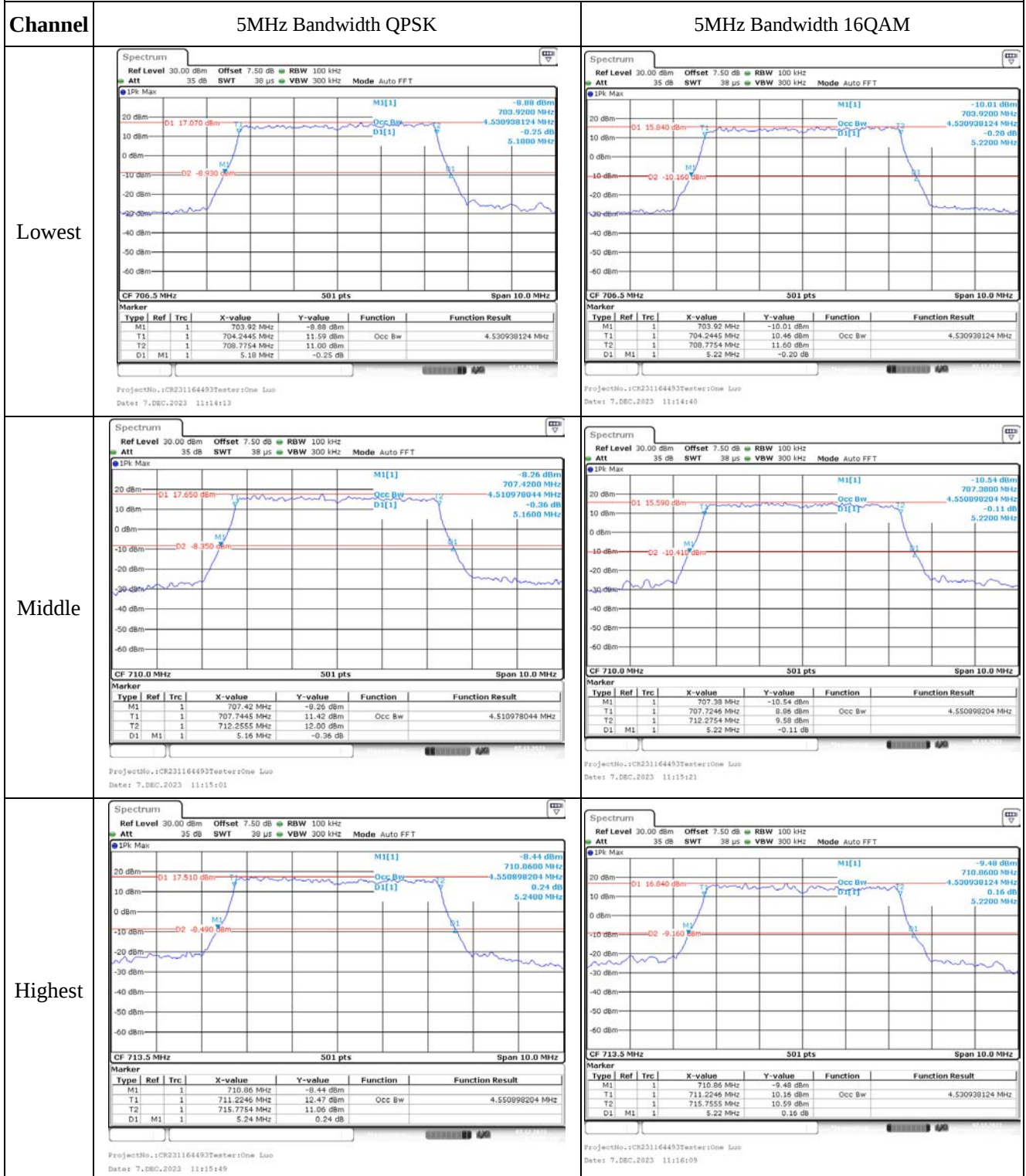
**Frequency Stability**

| Test Mode:                          | 10M QPSK         | Test Channel: Lowest for Lower Edge, Highest for Upper Edge |                  |        |                  |             |
|-------------------------------------|------------------|-------------------------------------------------------------|------------------|--------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                  | Lower Edge (MHz) |        | Upper Edge (MHz) |             |
|                                     |                  |                                                             | Result           | Limit  | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.8                                                         | 704.534          | 704.00 | 715.441          | 716.00      |
|                                     | -20              | 3.8                                                         | 704.501          | 704.00 | 715.497          | 716.00      |
|                                     | -10              | 3.8                                                         | 704.591          | 704.00 | 715.473          | 716.00      |
|                                     | 0                | 3.8                                                         | 704.532          | 704.00 | 715.410          | 716.00      |
|                                     | 10               | 3.8                                                         | 704.584          | 704.00 | 715.400          | 716.00      |
|                                     | 20               | 3.8                                                         | 704.529          | 704.00 | 715.471          | 716.00      |
|                                     | 30               | 3.8                                                         | 704.593          | 704.00 | 715.427          | 716.00      |
|                                     | 40               | 3.8                                                         | 704.551          | 704.00 | 715.454          | 716.00      |
|                                     | 50               | 3.8                                                         | 704.503          | 704.00 | 715.493          | 716.00      |
| Frequency Stability vs. Voltage     | 20               | 3.2                                                         | 704.558          | 704.00 | 715.443          | 716.00      |
|                                     | 20               | 4.4                                                         | 704.560          | 704.00 | 715.436          | 716.00      |
|                                     |                  |                                                             |                  |        | <b>Result:</b>   | <b>Pass</b> |

| Test Mode:                                | 10M<br>16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                     |        |                     |             |
|-------------------------------------------|---------------------|------------------------------------------------------------|---------------------|--------|---------------------|-------------|
| Test Item                                 | Temperature<br>(°C) | Voltage<br>(V <sub>DC</sub> )                              | Lower Edge<br>(MHz) |        | Upper Edge<br>(MHz) |             |
|                                           |                     |                                                            | Result              | Limit  | Result              | Limit       |
| Frequency<br>Stability vs.<br>Temperature | -30                 | 3.8                                                        | 704.548             | 704.00 | 715.455             | 716.00      |
|                                           | -20                 | 3.8                                                        | 704.507             | 704.00 | 715.438             | 716.00      |
|                                           | -10                 | 3.8                                                        | 704.503             | 704.00 | 715.411             | 716.00      |
|                                           | 0                   | 3.8                                                        | 704.541             | 704.00 | 715.432             | 716.00      |
|                                           | 10                  | 3.8                                                        | 704.541             | 704.00 | 715.440             | 716.00      |
|                                           | 20                  | 3.8                                                        | 704.529             | 704.00 | 715.471             | 716.00      |
|                                           | 30                  | 3.8                                                        | 704.522             | 704.00 | 715.421             | 716.00      |
|                                           | 40                  | 3.8                                                        | 704.515             | 704.00 | 715.437             | 716.00      |
|                                           | 50                  | 3.8                                                        | 704.520             | 704.00 | 715.470             | 716.00      |
| Frequency<br>Stability vs.<br>Voltage     | 20                  | 3.2                                                        | 704.580             | 704.00 | 715.442             | 716.00      |
|                                           | 20                  | 4.4                                                        | 704.518             | 704.00 | 715.415             | 716.00      |
|                                           |                     |                                                            |                     |        | <b>Result:</b>      | <b>Pass</b> |

**Test Plots:**(Note: The 7.5dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer.)

### Occupied Bandwidth



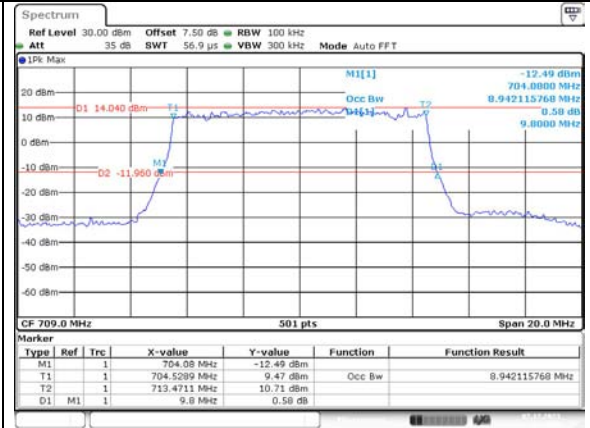
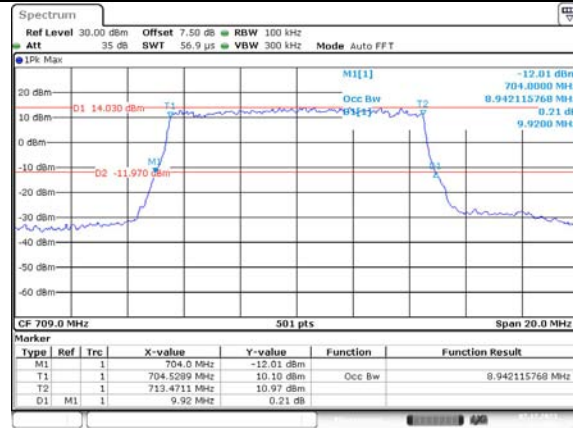
## Occupied Bandwidth

## Channel

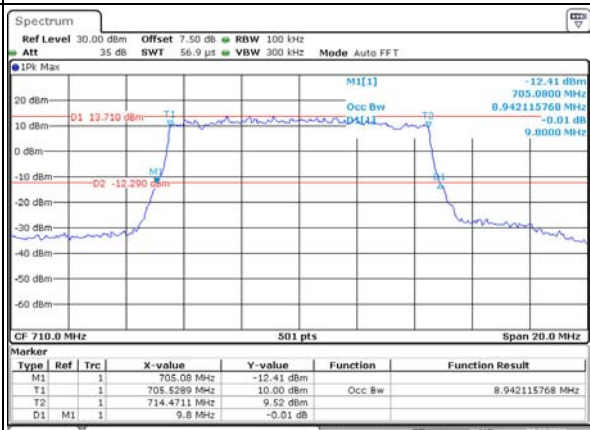
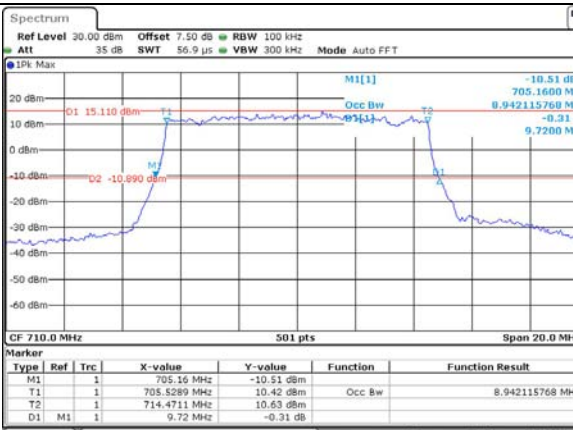
## 10MHz Bandwidth QPSK

## 10MHz Bandwidth 16QAM

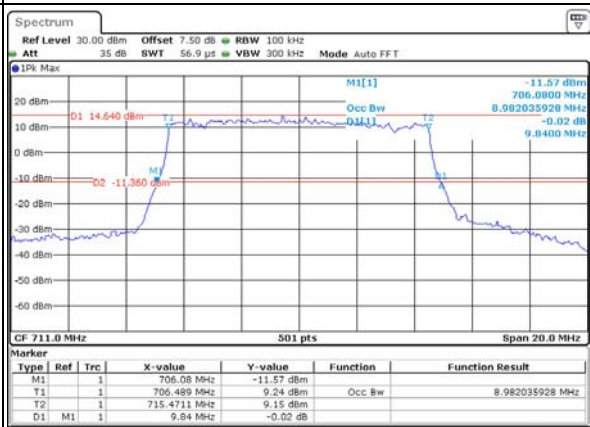
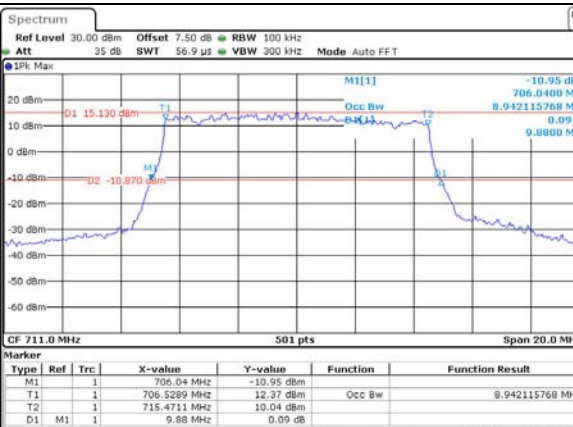
## Lowest



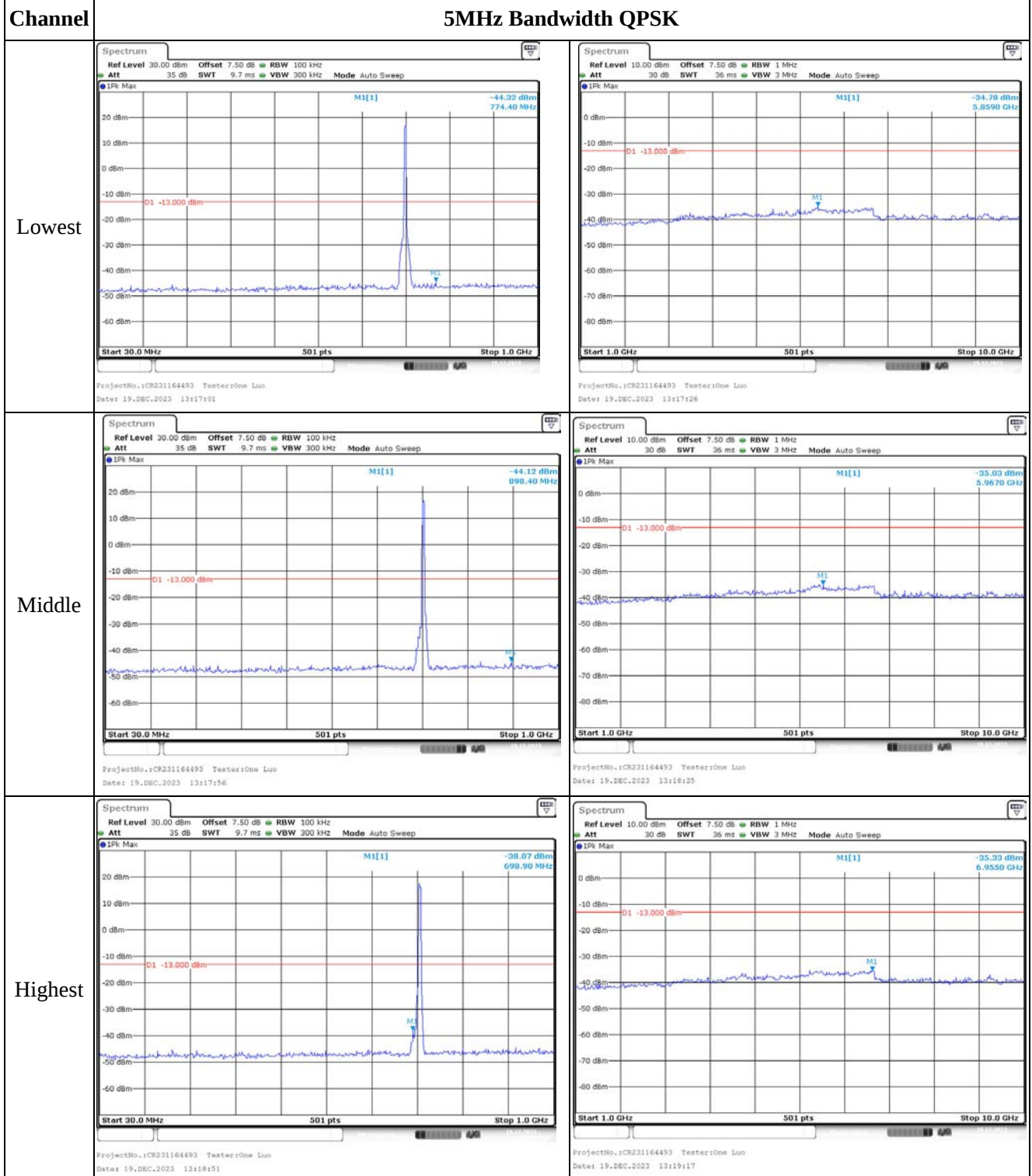
## Middle



## Highest



## Spurious Emissions at Antenna Terminal

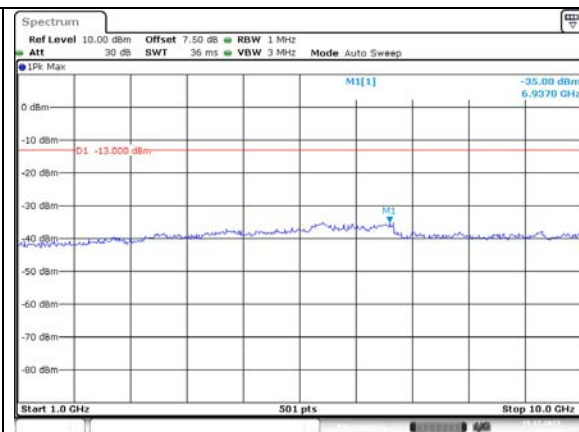
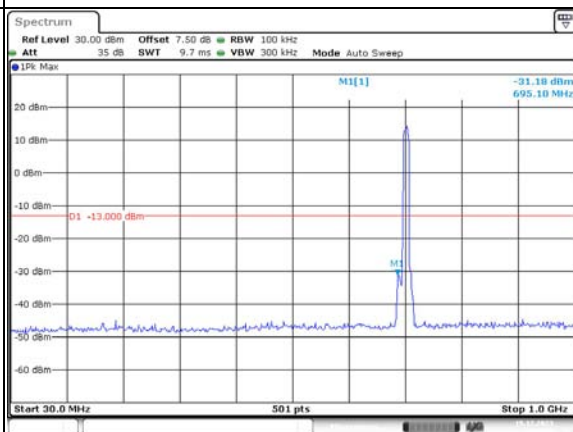


## Spurious Emissions at Antenna Terminal

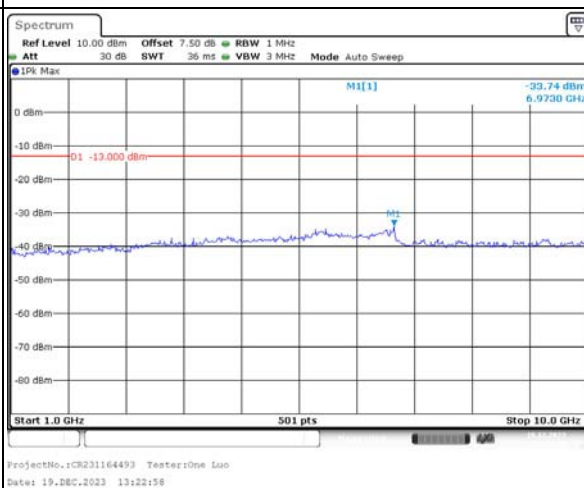
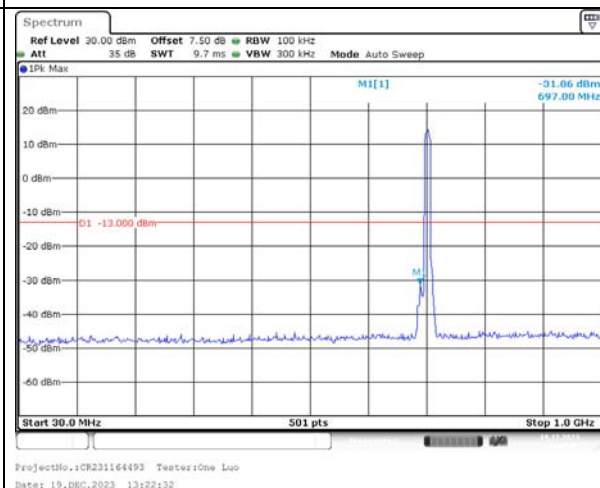
Channel

10MHz Bandwidth QPSK

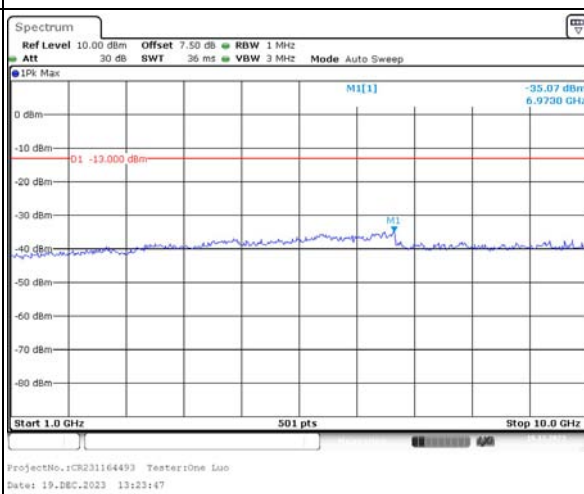
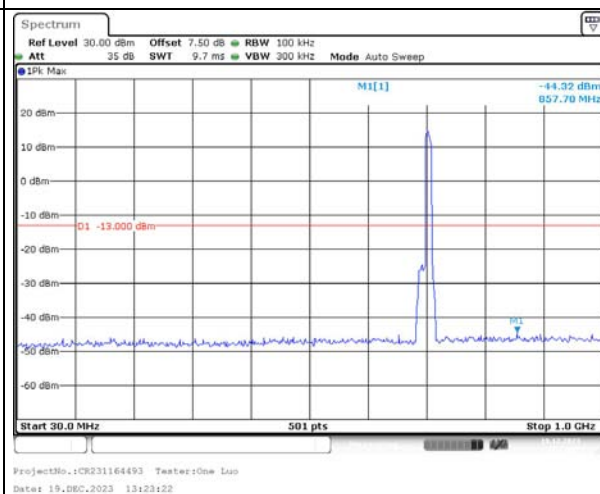
Lowest



Middle



Highest



## Out of band emission, Band Edge

