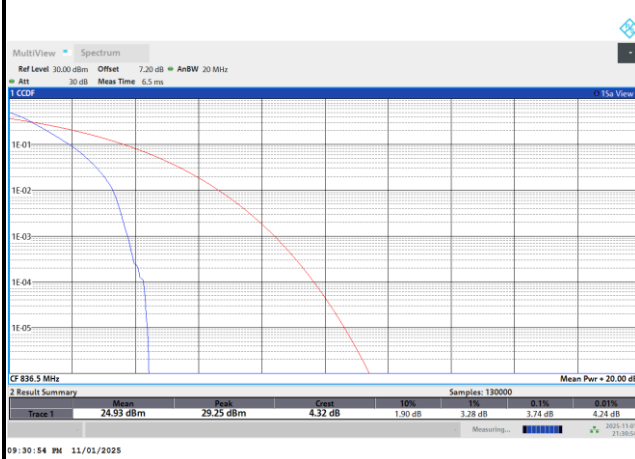


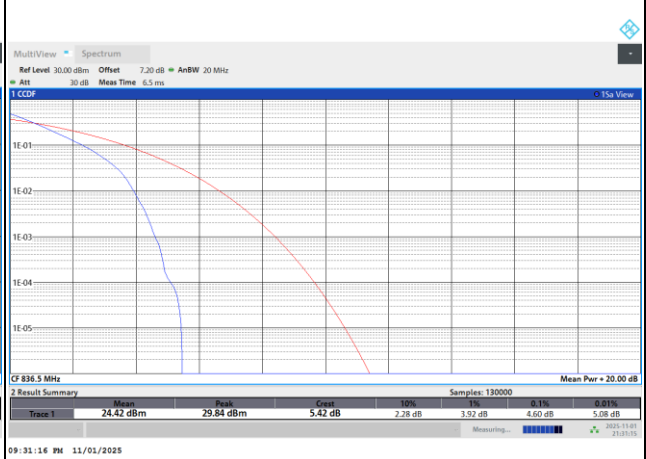


## FR1 n26 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

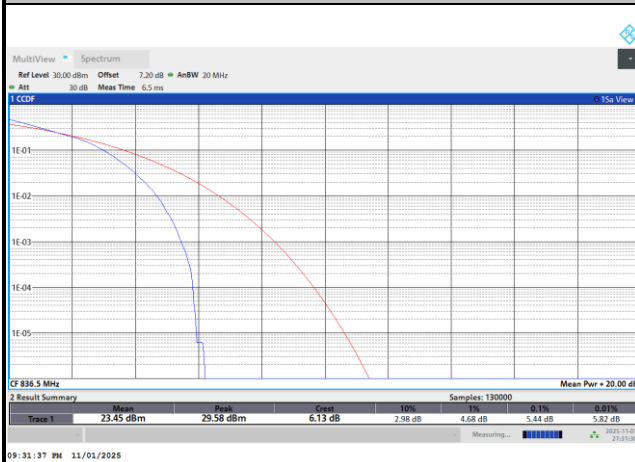
## PI/2 BPSK



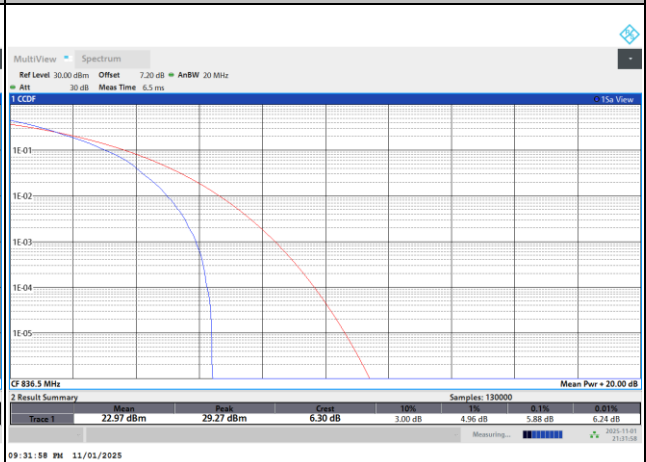
## QPSK



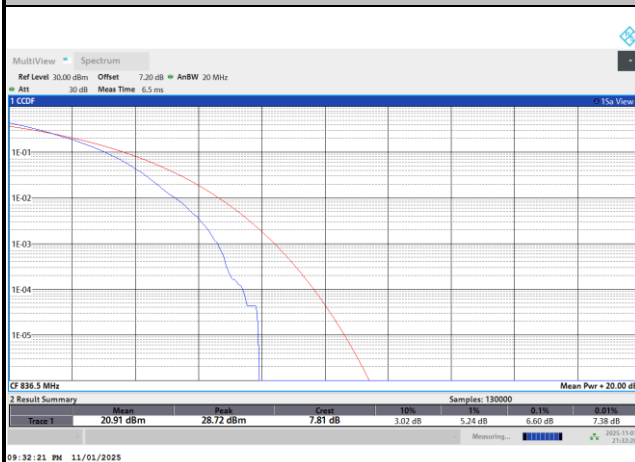
## 16QAM



## 64QAM



## 256QAM



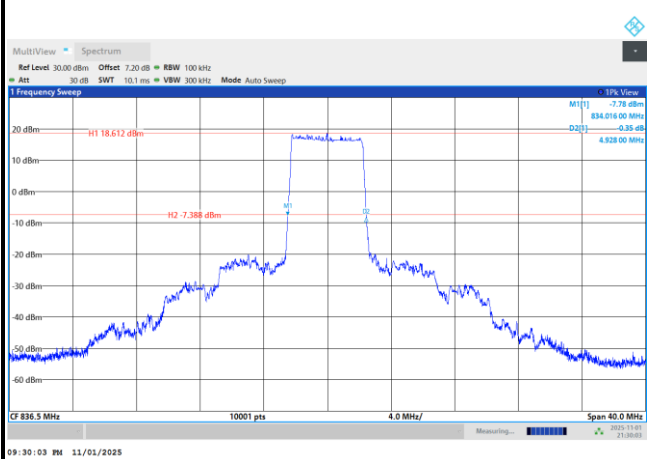
**26dB Bandwidth**

| Mode      | FR1 n26 : 26dB BW(MHz) / DFT-S OFDM |       |           |      |           |       |           |       |
|-----------|-------------------------------------|-------|-----------|------|-----------|-------|-----------|-------|
| BW        | 5MHz                                |       | 10MHz     |      | 15MHz     |       | 20MHz     |       |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 4.92                                | 6.06  | 9.62      | 9.52 | 14.56     | 14.99 | 19.13     | 19.14 |
| Mod.      | 16QAM                               |       | 16QAM     |      | 16QAM     |       | 16QAM     |       |
| Middle CH | 4.87                                |       | 9.50      |      | 14.77     |       | 19.15     |       |
| BW        | 25MHz                               |       |           |      |           |       |           |       |
| Mod.      | PI/2 BPSK                           | QPSK  |           |      |           |       |           |       |
| Middle CH | 24.35                               | 24.28 |           |      |           |       |           |       |
| Mod.      | 16QAM                               |       |           |      |           |       |           |       |
| Middle CH | 25.80                               |       |           |      |           |       |           |       |

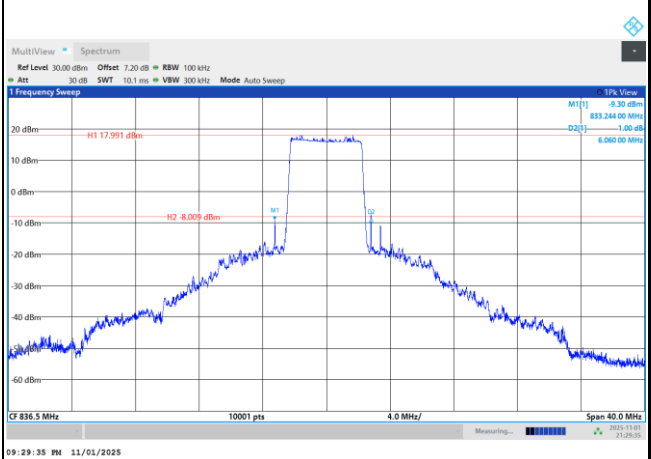


FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

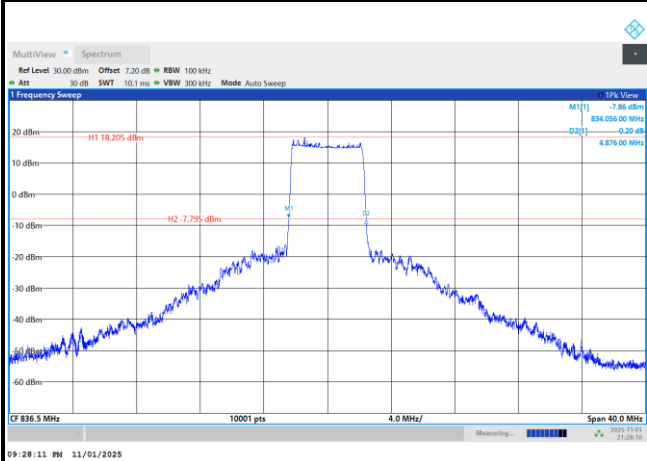
PI/2 BPSK



QPSK



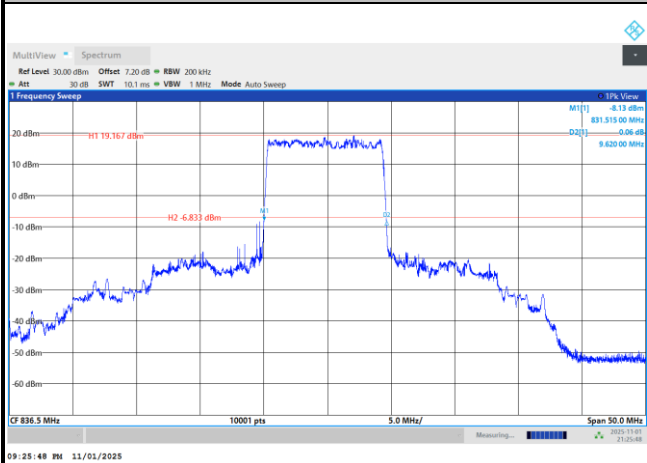
16QAM



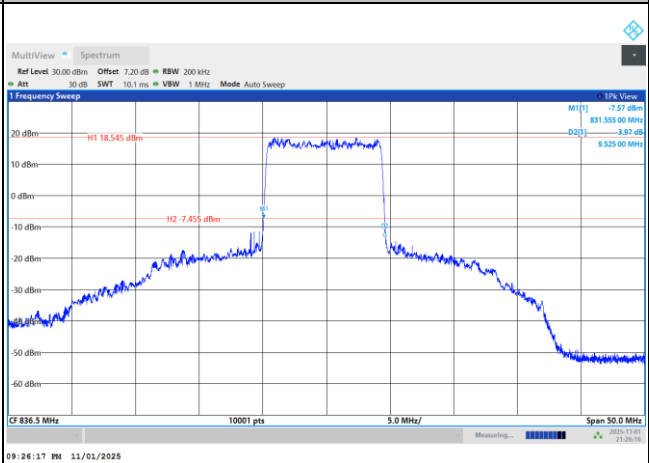


## FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

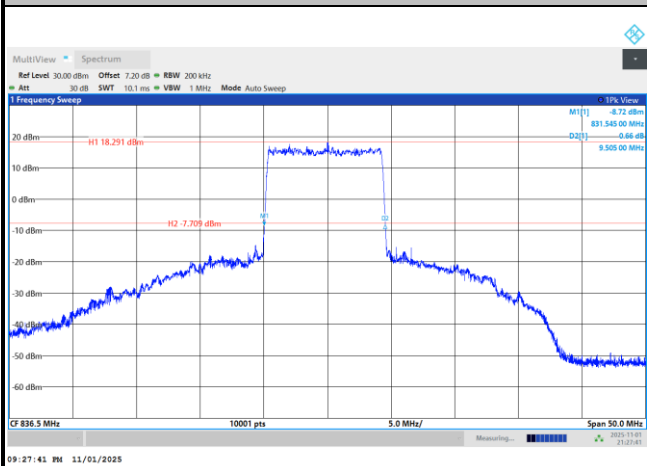
## PI/2 BPSK



## QPSK



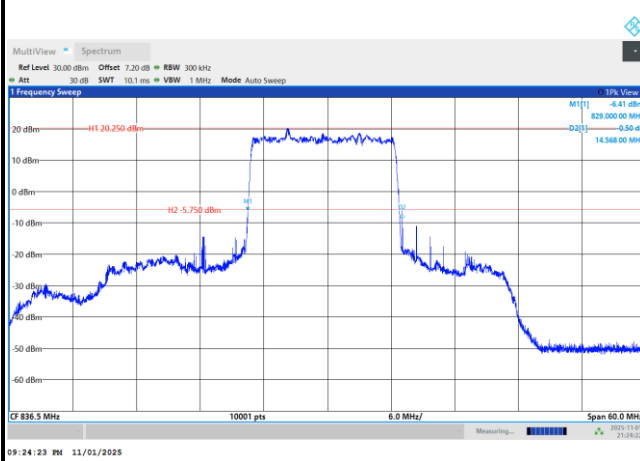
## 16QAM



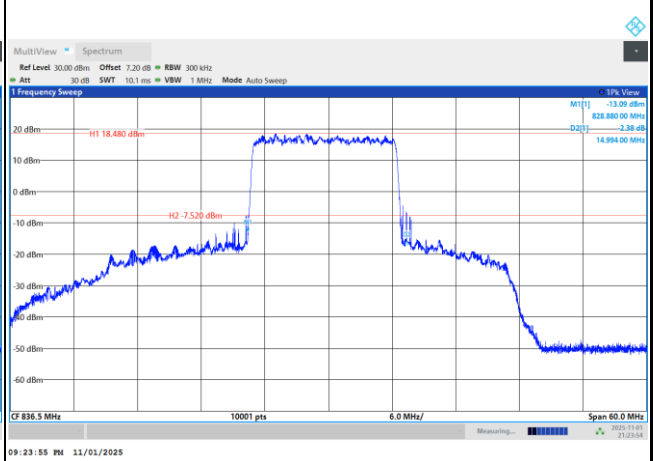


FR1 n26 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

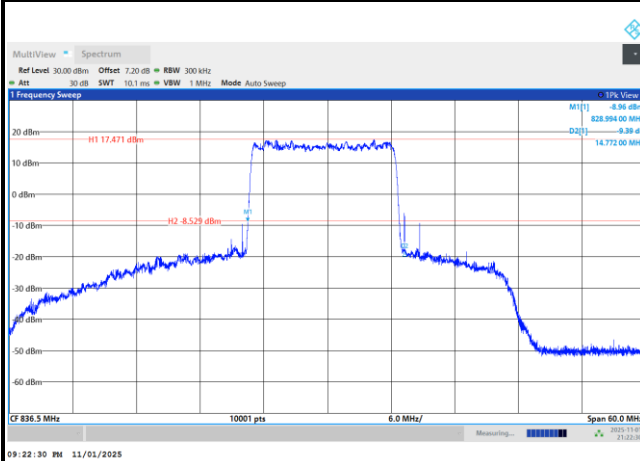
QPSK



QPSK



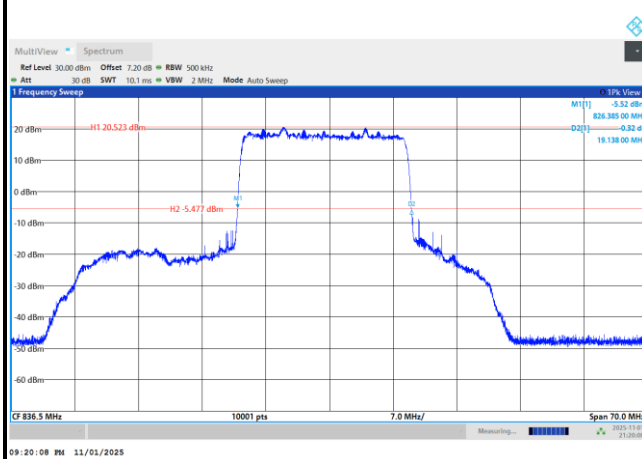
16QAM



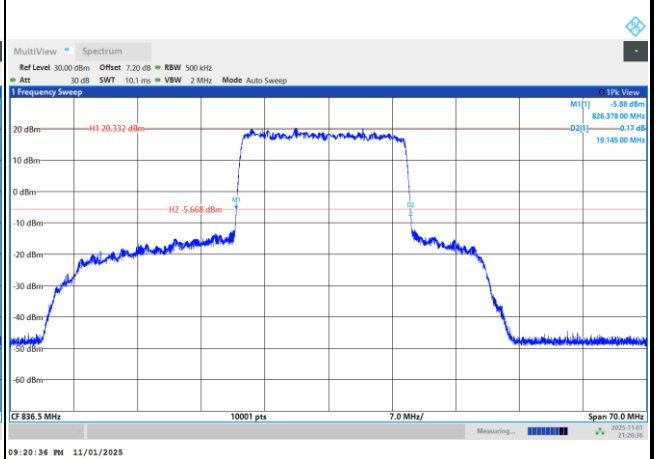


FR1 n26 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

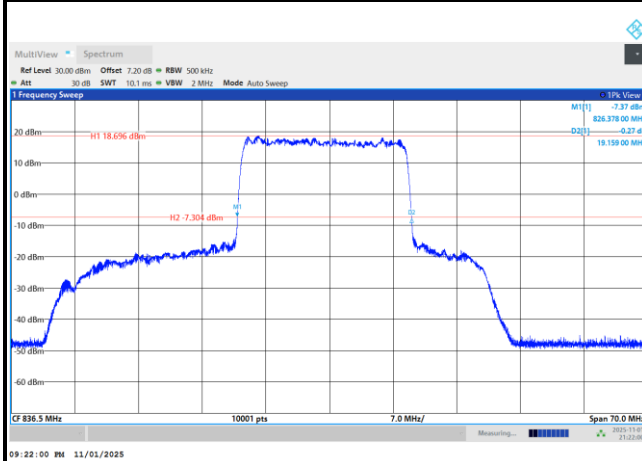
PI/2 BPSK



QPSK



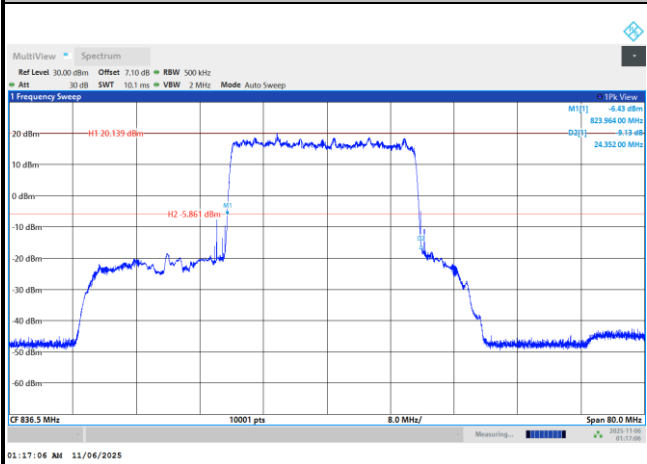
16QAM



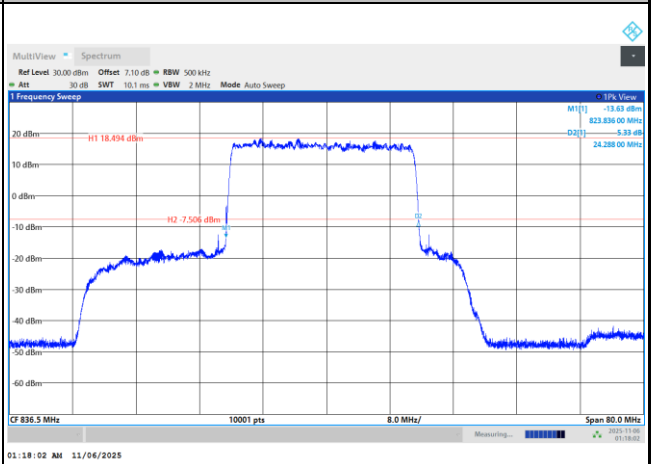


FR1 n26 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

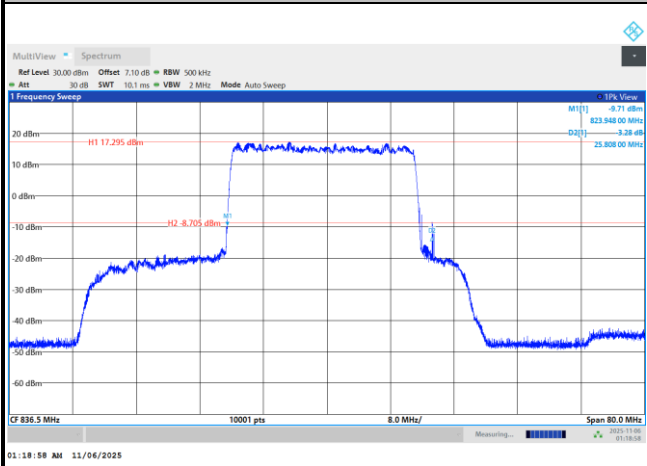
PI/2 BPSK



QPSK



16QAM



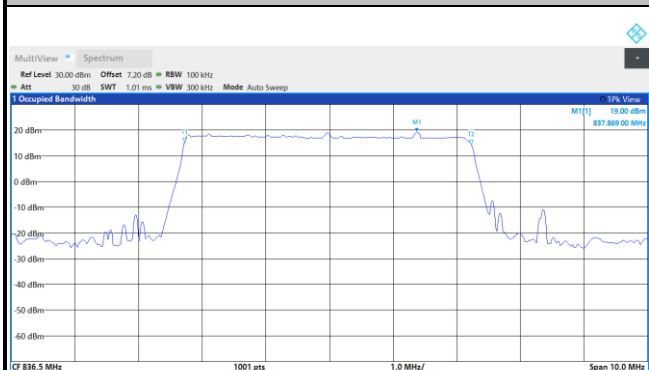
**Occupied Bandwidth**

| Mode      | FR1 n26 : 99%OBW(MHz) / DFT-S OFDM |       |           |      |           |       |           |       |
|-----------|------------------------------------|-------|-----------|------|-----------|-------|-----------|-------|
| BW        | 5MHz                               |       | 10MHz     |      | 15MHz     |       | 20MHz     |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 4.50                               | 4.51  | 9.04      | 8.96 | 13.50     | 13.45 | 18.02     | 18.00 |
| Mod.      | 16QAM                              |       | 16QAM     |      | 16QAM     |       | 16QAM     |       |
| Middle CH | 4.49                               |       | 8.97      |      | 13.45     |       | 17.97     |       |
| BW        | 25MHz                              |       |           |      |           |       |           |       |
| Mod.      | PI/2 BPSK                          | QPSK  |           |      |           |       |           |       |
| Middle CH | 22.98                              | 22.93 |           |      |           |       |           |       |
| Mod.      | 16QAM                              |       |           |      |           |       |           |       |
| Middle CH | 22.91                              |       |           |      |           |       |           |       |



## FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

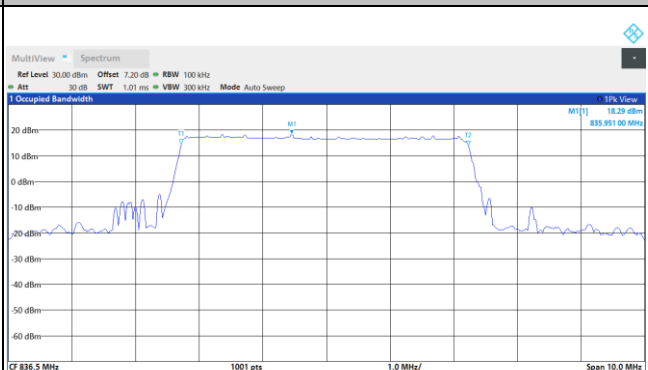
## PI/2 BPSK



| Type | Ref | Trc | X-Value        | Y-Value   | Function           | Function Result    |
|------|-----|-----|----------------|-----------|--------------------|--------------------|
| M1   | 1   |     | 837.869 MHz    | 19.00 dBm | Occ Bw             | 4.505 782 729 MHz  |
| T1   | 1   |     | 834.223 98 MHz | 15.24 dBm | Occ Bw Centroid    | 836.476 871 98 MHz |
| T2   | 1   |     | 838.729 76 MHz | 14.47 dBm | Occ Bw Freq Offset | -23.138 020 42 kHz |

09:30:32 PM 11/01/2025

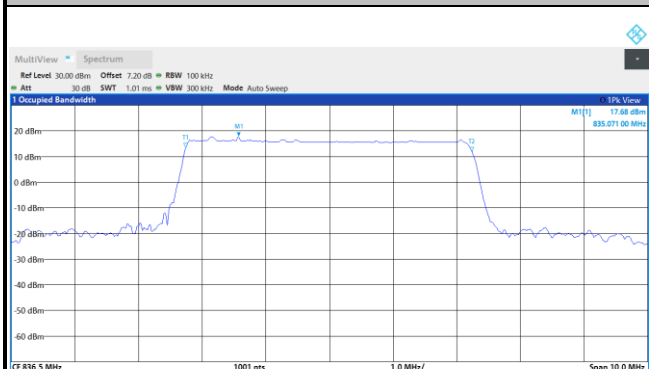
## QPSK



| Type | Ref | Trc | X-Value        | Y-Value   | Function           | Function Result     |
|------|-----|-----|----------------|-----------|--------------------|---------------------|
| M1   | 1   |     | 835.951 MHz    | 18.29 dBm | Occ Bw             | 4.511 038 627 MHz   |
| T1   | 1   |     | 834.218 15 MHz | 14.61 dBm | Occ Bw Centroid    | 836.473 665 324 MHz |
| T2   | 1   |     | 838.729 18 MHz | 13.95 dBm | Occ Bw Freq Offset | -35.334 675 869 kHz |

09:29:07 PM 11/01/2025

## 16QAM



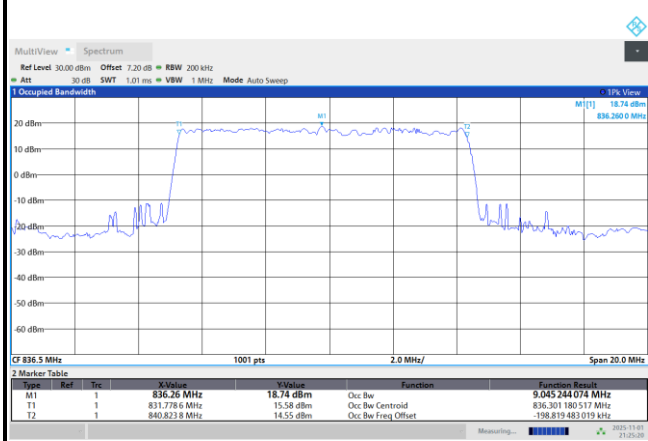
| Type | Ref | Trc | X-Value        | Y-Value   | Function           | Function Result     |
|------|-----|-----|----------------|-----------|--------------------|---------------------|
| M1   | 1   |     | 835.071 MHz    | 17.68 dBm | Occ Bw             | 4.494 627 304 MHz   |
| T1   | 1   |     | 834.239 95 MHz | 13.46 dBm | Occ Bw Centroid    | 836.487 260 104 MHz |
| T2   | 1   |     | 838.734 57 MHz | 11.86 dBm | Occ Bw Freq Offset | -12.739 895 765 kHz |

09:28:39 PM 11/01/2025



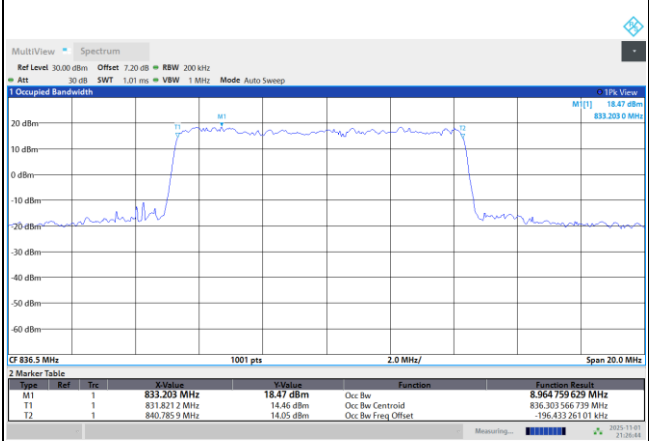
## FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



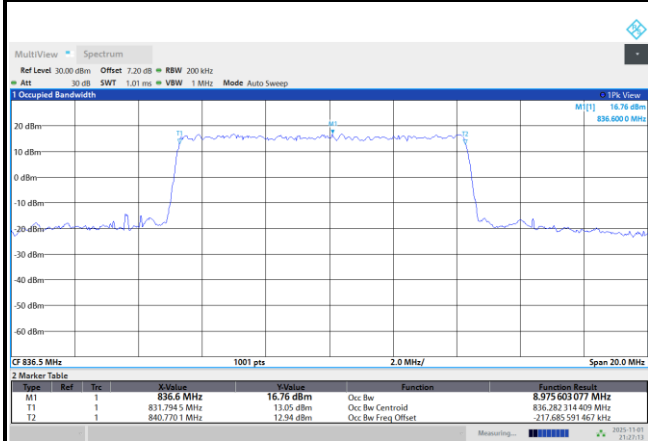
09:25:21 PM 11/01/2025

## QPSK



09:26:45 PM 11/01/2025

## 16QAM

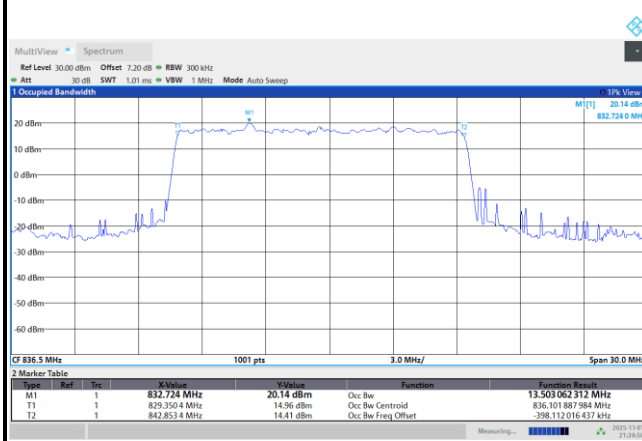


09:27:13 PM 11/01/2025



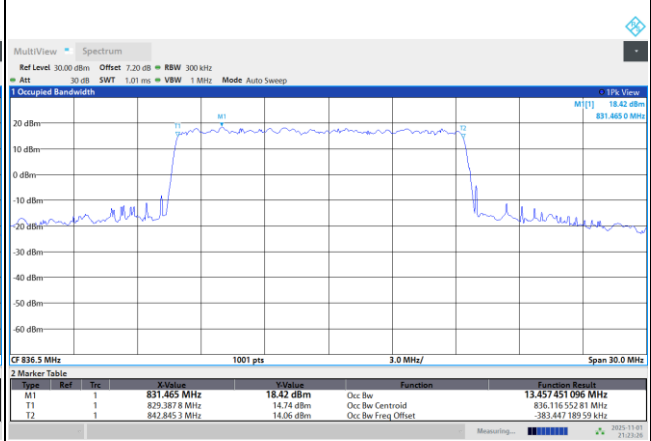
## FR1 n26 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



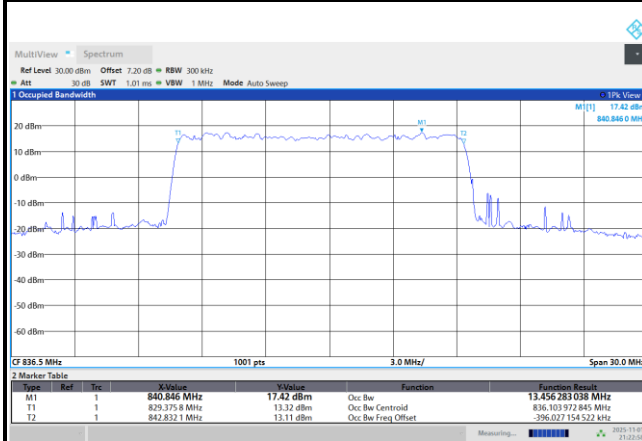
09:24:51 PM 11/01/2025

## QPSK



09:23:27 PM 11/01/2025

## 16QAM

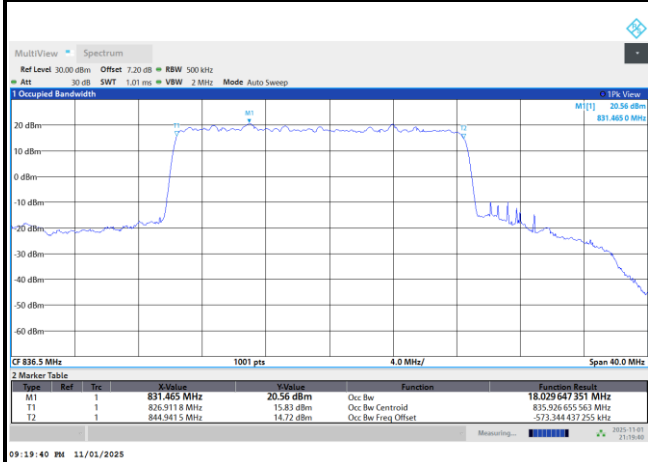


09:22:58 PM 11/01/2025

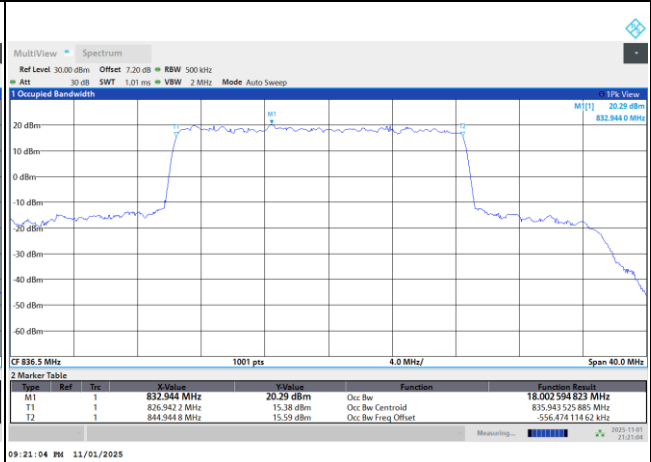


## FR1 n26 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

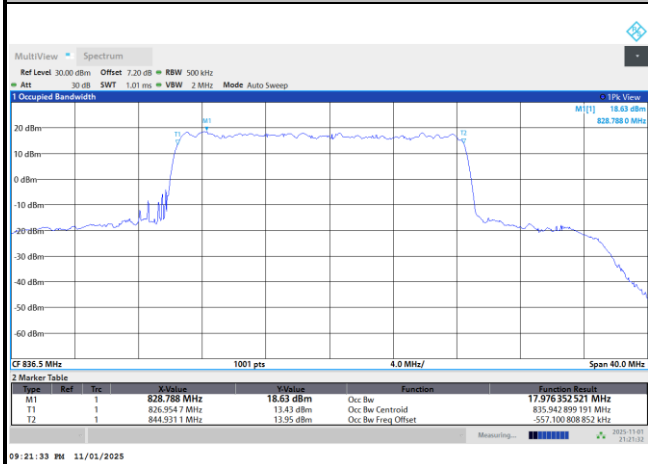
## PI/2 BPSK



## QPSK



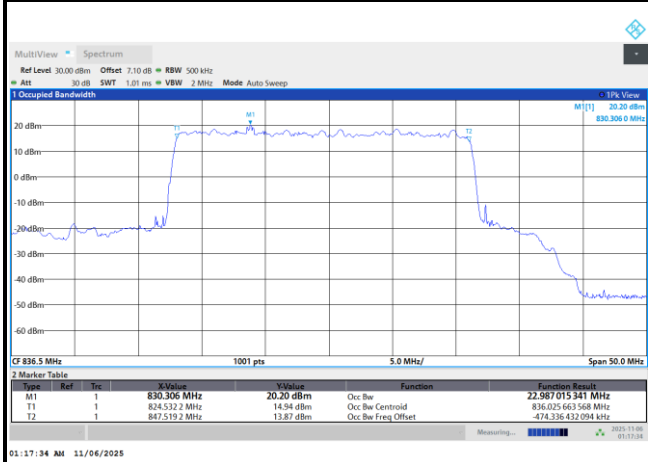
## 16QAM



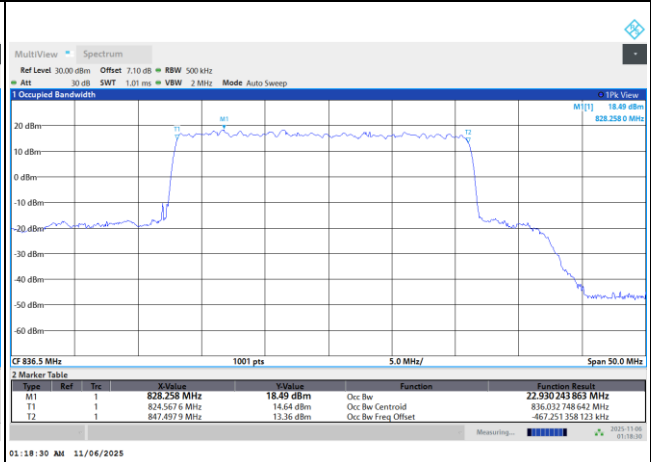


## FR1 n26 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

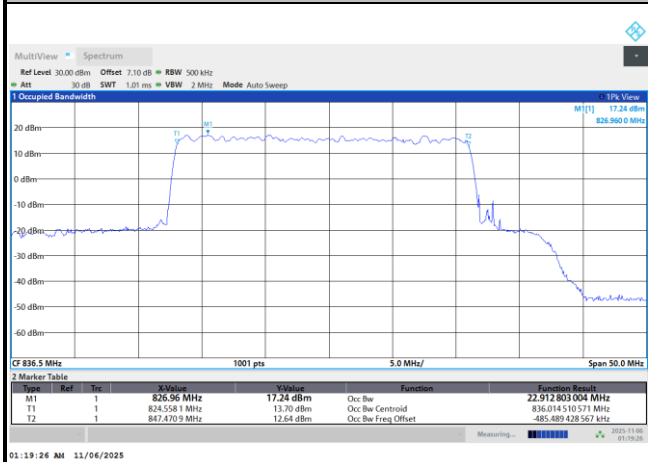
## PI/2 BPSK



## QPSK



## 16QAM

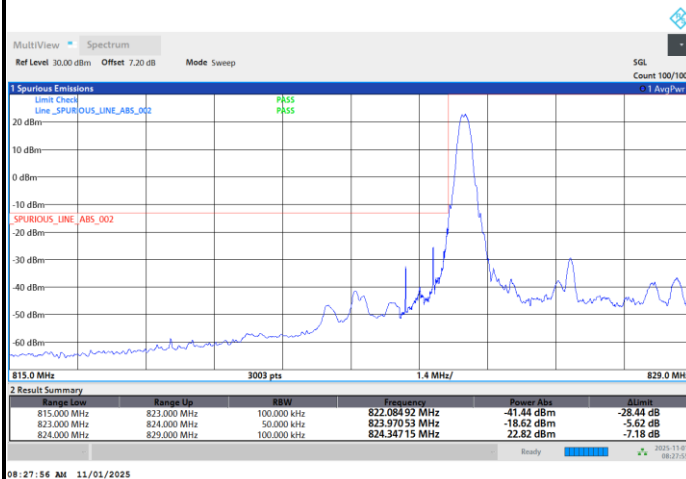




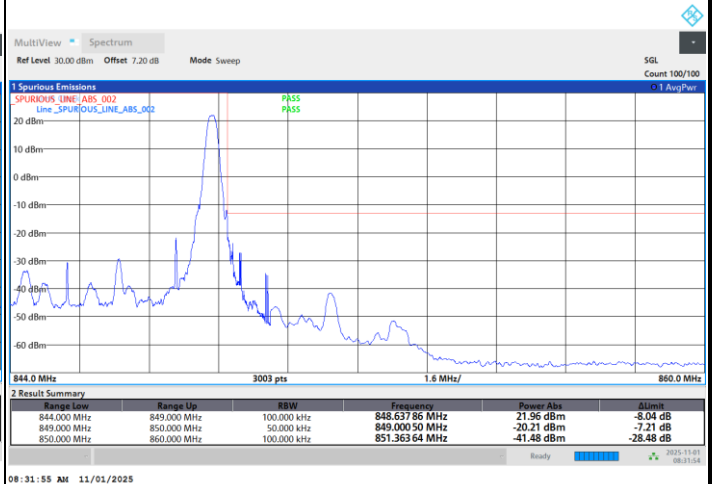
# Conducted Band Edge

FR1 n26 / 5MHz / DFT-S OFDM / PI/2 BPSK

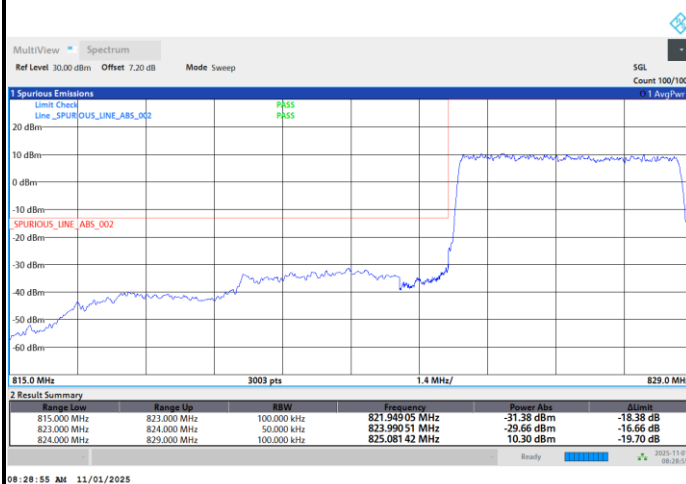
## Lowest Band Edge / 1RB0



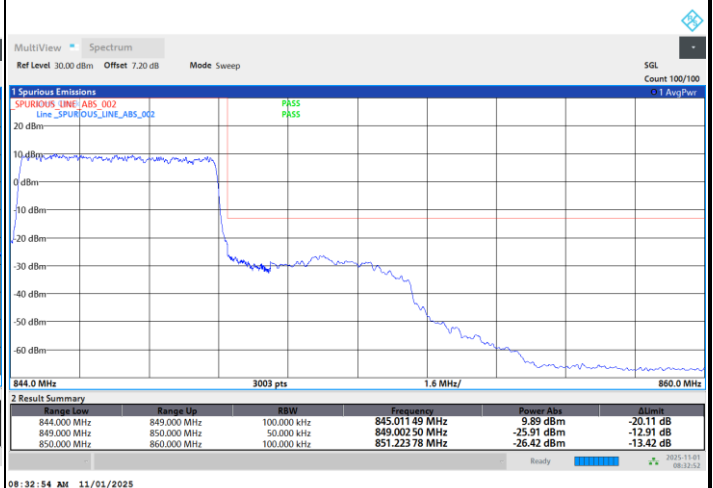
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



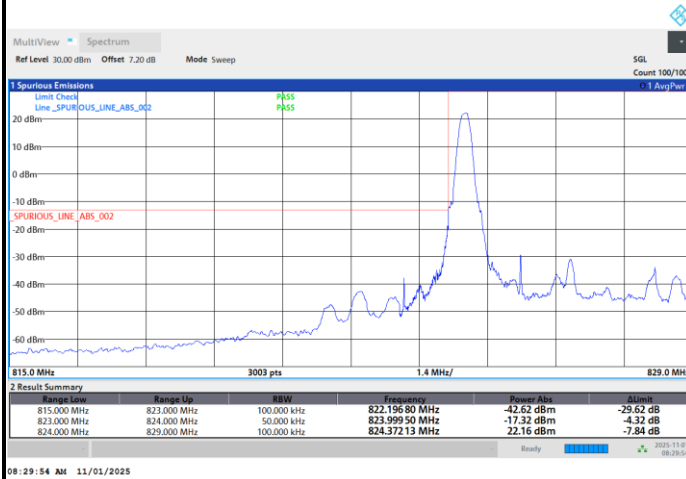
## Highest Band Edge / Full RB



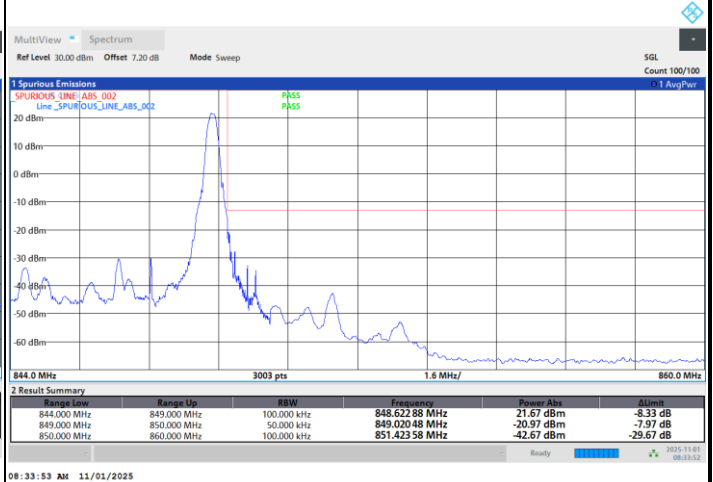


## FR1 n26 / 5MHz / DFT-S OFDM / QPSK

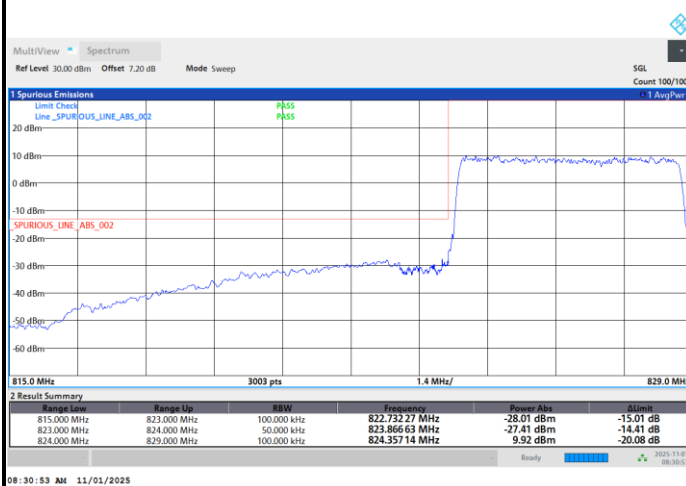
## Lowest Band Edge / 1RB0



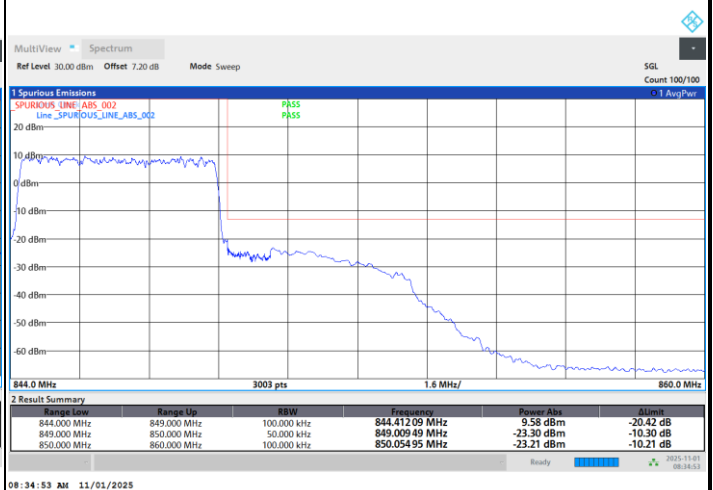
## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

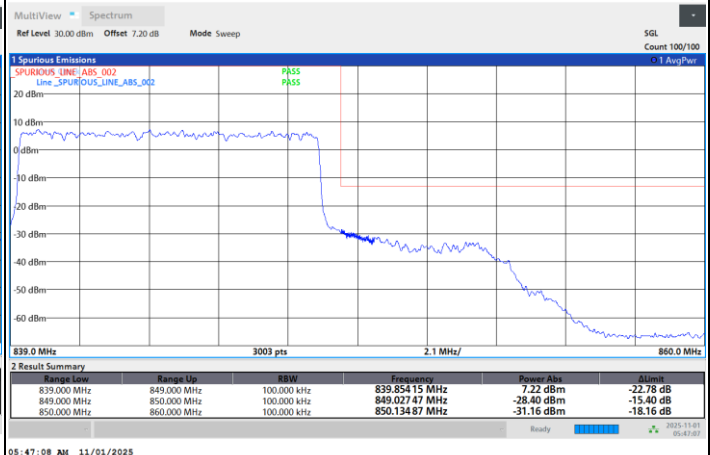
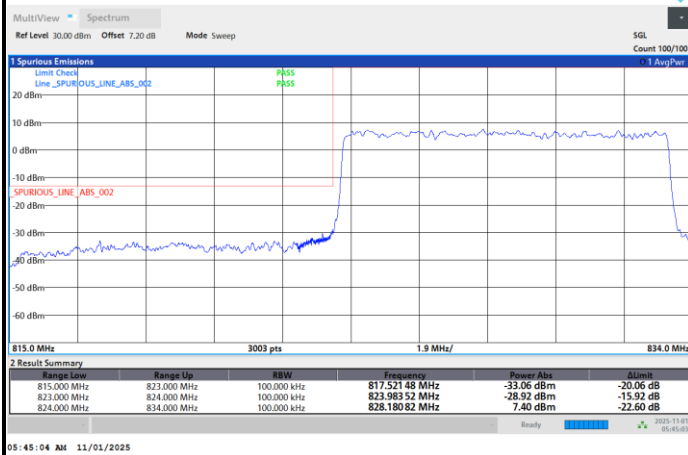




## FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

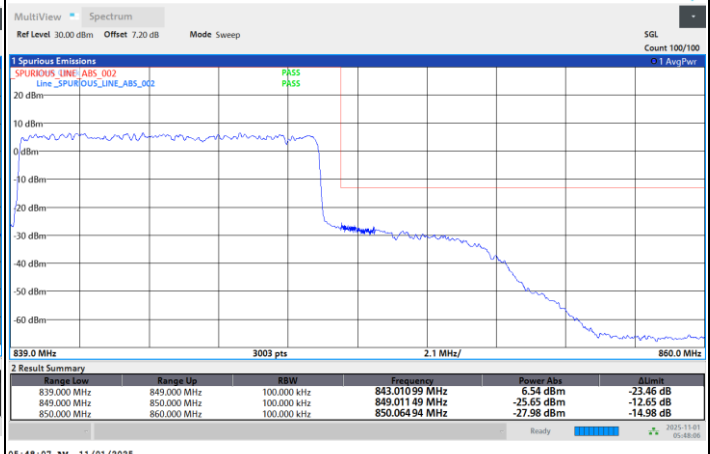
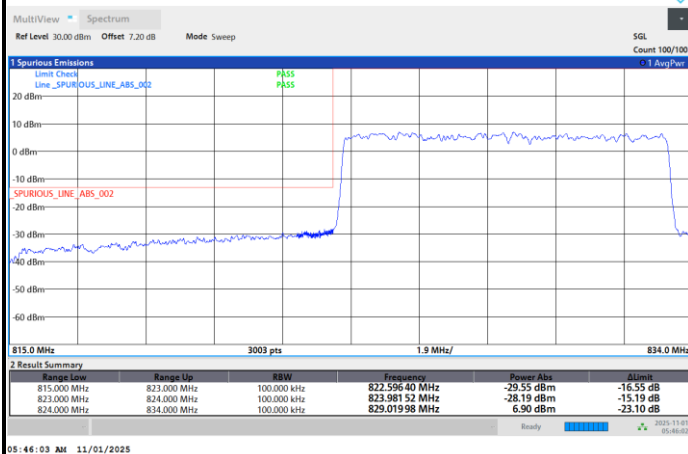
## Highest Band Edge / Full RB



## FR1 n26 / 10MHz / DFT-s-OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

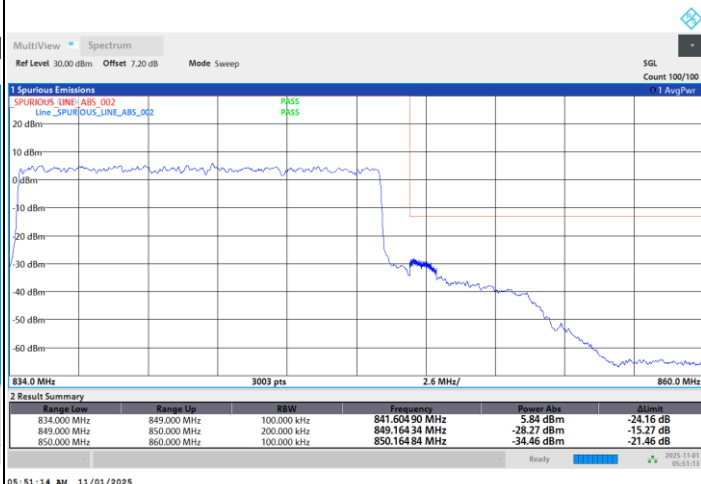
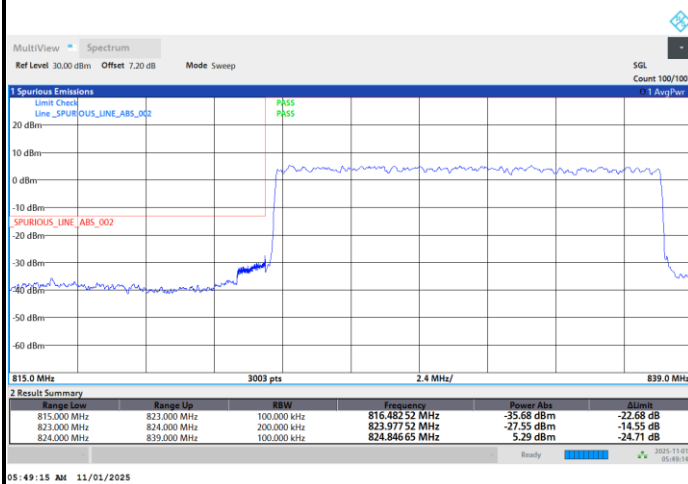




## FR1 n26 / 15MHz / DFT-s-OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

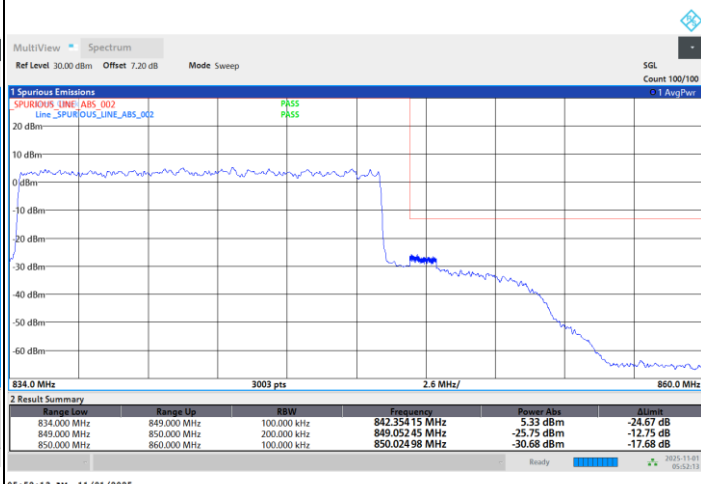
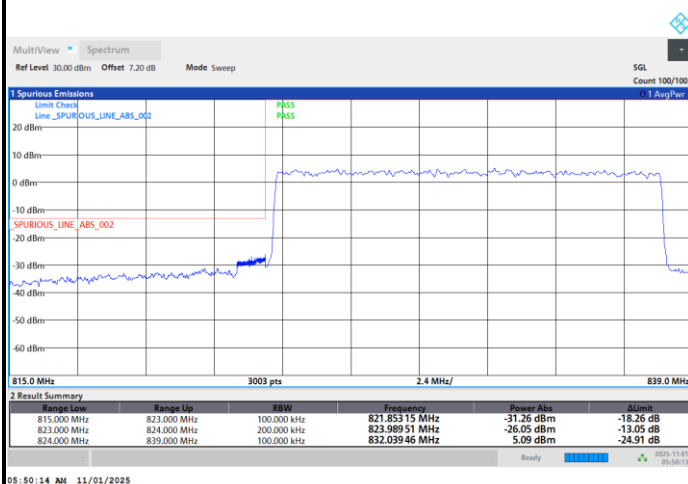
## Highest Band Edge / Full RB



## FR1 n26 / 15MHz / DFT-s-OFDM / QPSK

## Lowest Band Edge / Full RB

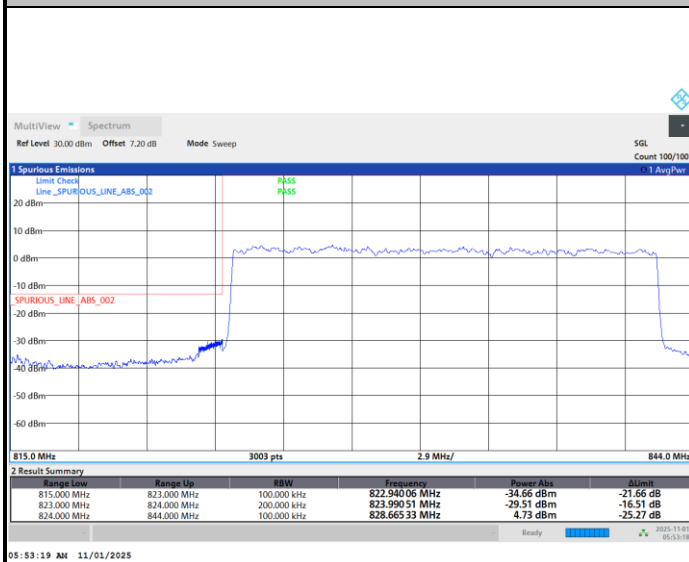
## Highest Band Edge / Full RB



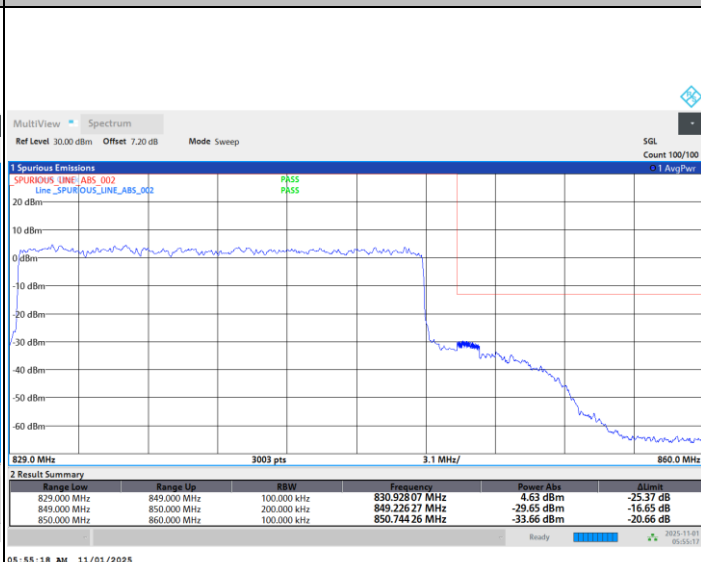


## FR1 n26 / 20MHz / DFT-s-OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

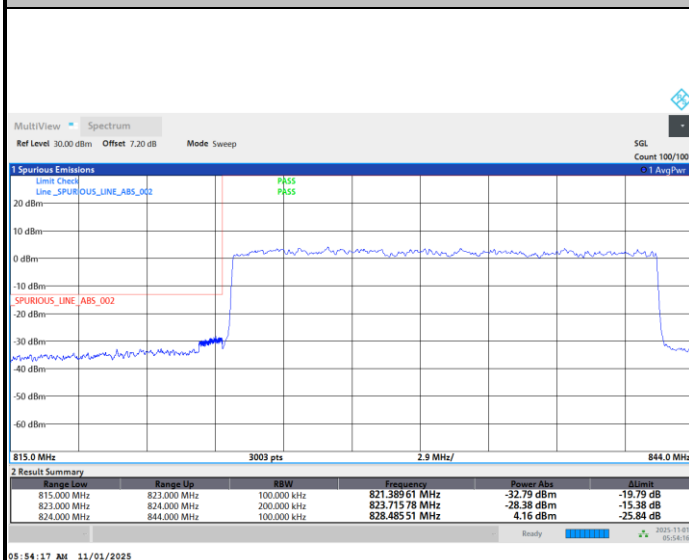


## Highest Band Edge / Full RB

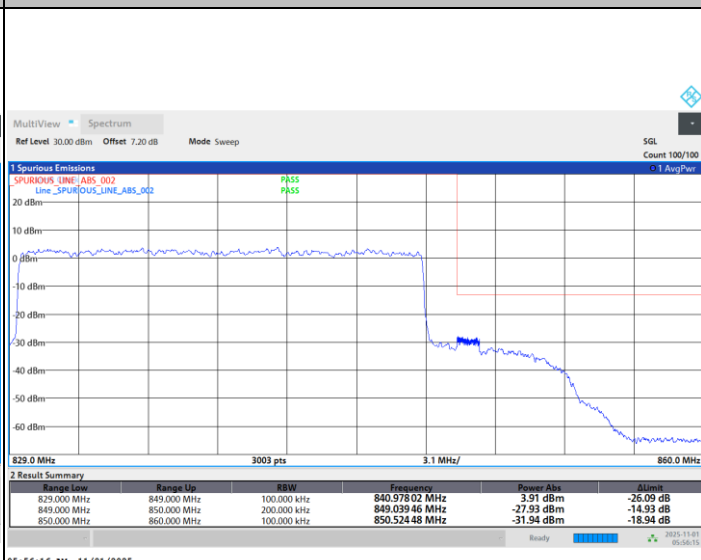


## FR1 n26 / 20MHz / DFT-s-OFDM / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

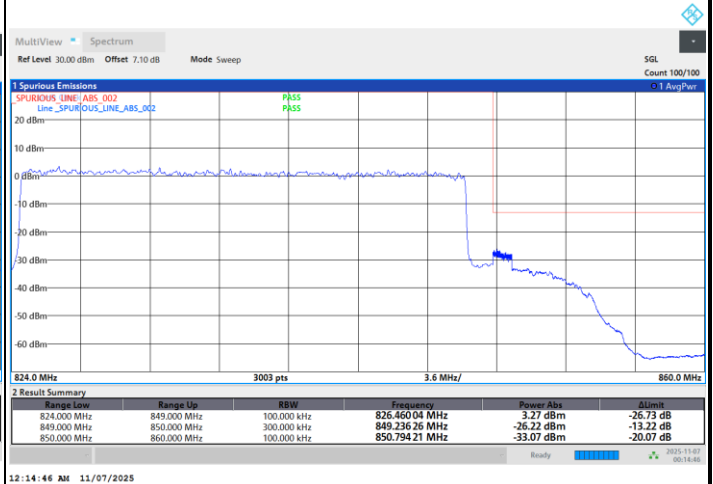
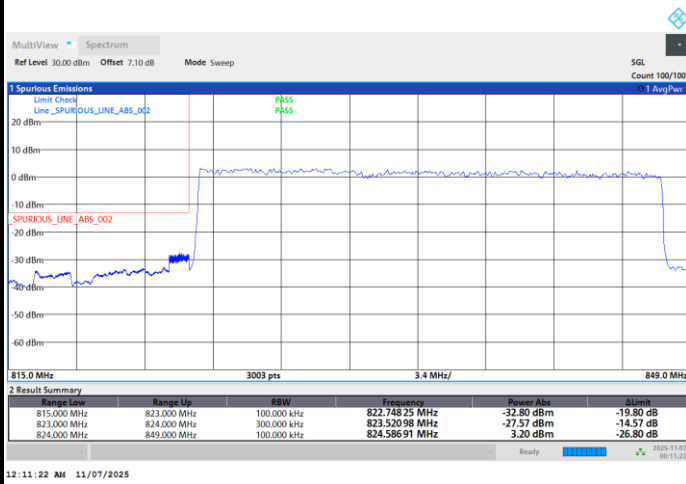




## FR1 n26 / 25MHz / DFT-s-OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

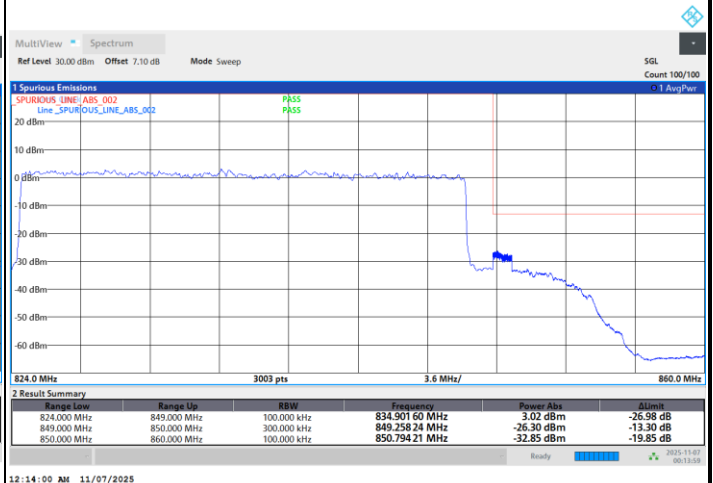
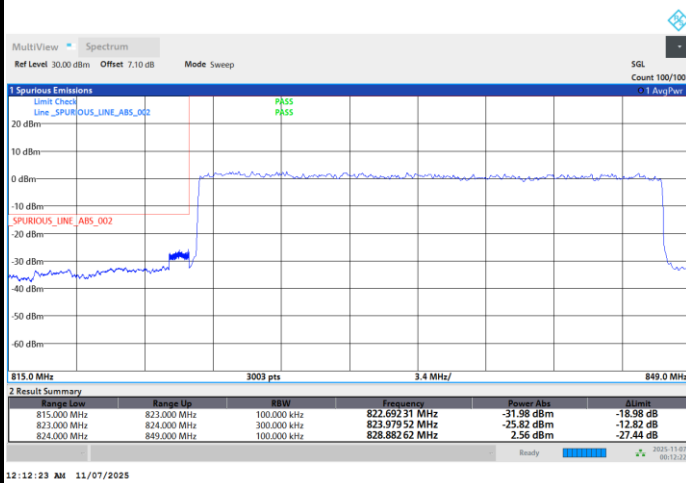
## Highest Band Edge / Full RB



## FR1 n26 / 25MHz / DFT-s-OFDM / PI/2 QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

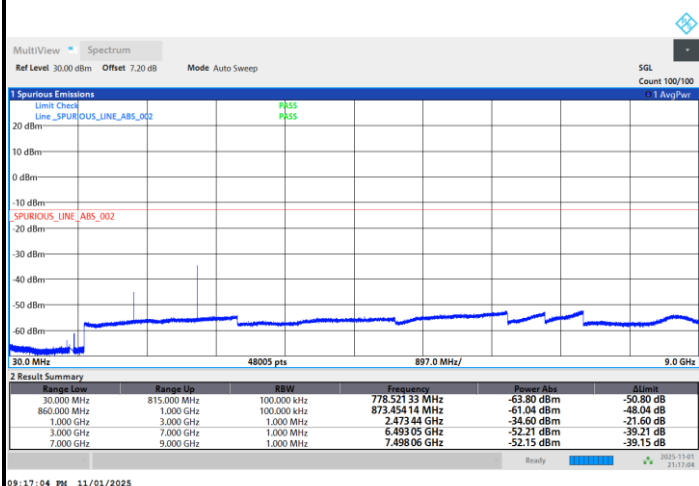




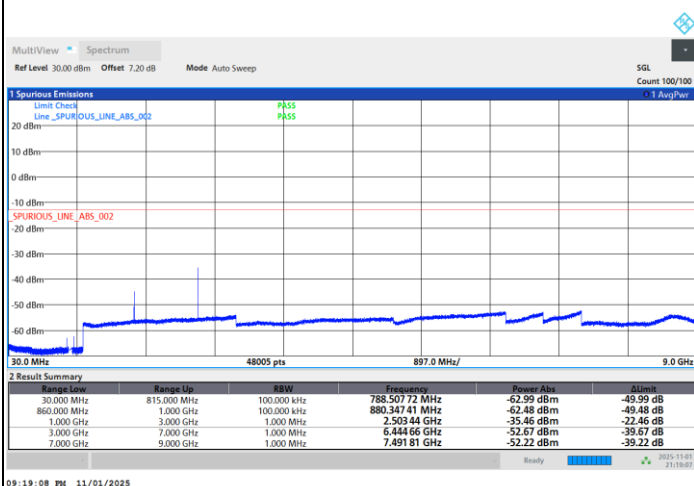
# Conducted Spurious Emission

FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1

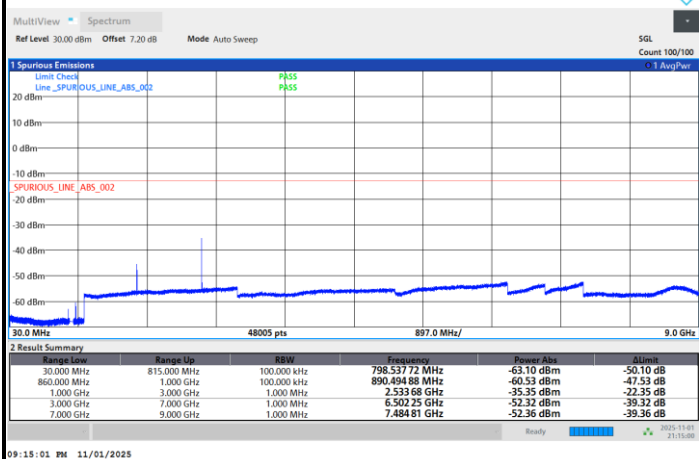
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n26 (BPSK) / Middle Channel 10M |                                         |                                             |        |
|---------------------|-------------------|-------------------------------------|-----------------------------------------|---------------------------------------------|--------|
| Temperature<br>(°C) | Voltage<br>(Volt) | Deviation (ppm)                     | Frequency Offset ( $\Delta f$ )<br>(Hz) | Within Authorized<br>Frequency<br>Block(Hz) | Result |
| 50                  | Normal Voltage    | 0.0086                              | -7.2                                    | Yes                                         | PASS   |
| 40                  | Normal Voltage    | 0.0049                              | -4.1                                    | Yes                                         |        |
| 30                  | Normal Voltage    | 0.0069                              | 5.8                                     | Yes                                         |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                              | 0                                       | Yes                                         |        |
| 10                  | Normal Voltage    | 0.0065                              | -5.4                                    | Yes                                         |        |
| 0                   | Normal Voltage    | 0.0060                              | 5                                       | Yes                                         |        |
| -10                 | Normal Voltage    | 0.0068                              | -5.7                                    | Yes                                         |        |
| -20                 | Normal Voltage    | 0.0072                              | -6                                      | Yes                                         |        |
| -30                 | Normal Voltage    | 0.0038                              | 3.2                                     | Yes                                         |        |
| 20                  | Maximum Voltage   | 0.0056                              | 4.7                                     | Yes                                         |        |
| 20                  | Normal Voltage    | 0.0000                              | 0                                       | Yes                                         |        |
| 20                  | Minimum Voltage   | 0.0085                              | -7.1                                    | Yes                                         |        |

**Note:**

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.05 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



## FR1 n26

## &lt;SISO Mode&gt;

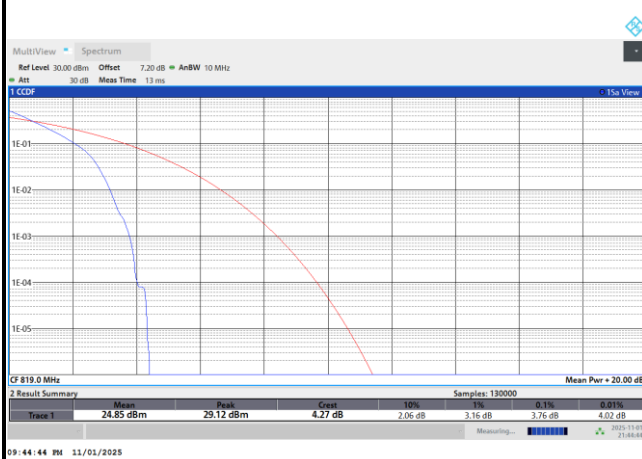
## Peak-to-Average Ratio

| Mode      | FR1 n26 / 10MHz / DFT-S OFDM |         |         |         |             |
|-----------|------------------------------|---------|---------|---------|-------------|
| Mod.      | PI/2 BPSK                    | QPSK    | 16QAM   | 64QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Full RB | Full RB | Result      |
| Middle CH | 3.76                         | 4.62    | 5.50    | 5.86    | PASS        |
| Mode      | FR1 n26 / 10MHz / DFT-S OFDM |         |         |         |             |
| Mod.      | 256QAM                       |         |         |         | Limit: 13dB |
| RB Size   | Full RB                      |         |         |         | Result      |
| Middle CH | 6.62                         |         |         |         | PASS        |

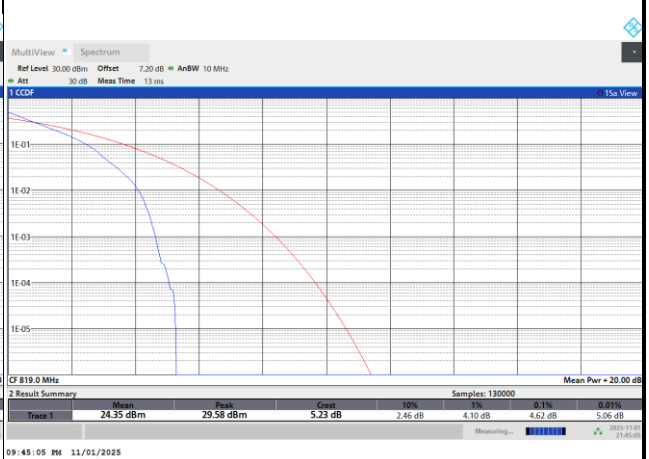


## FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

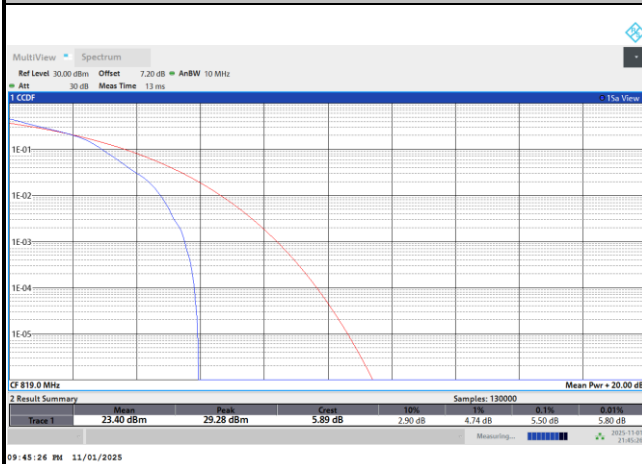
## PI/2 BPSK



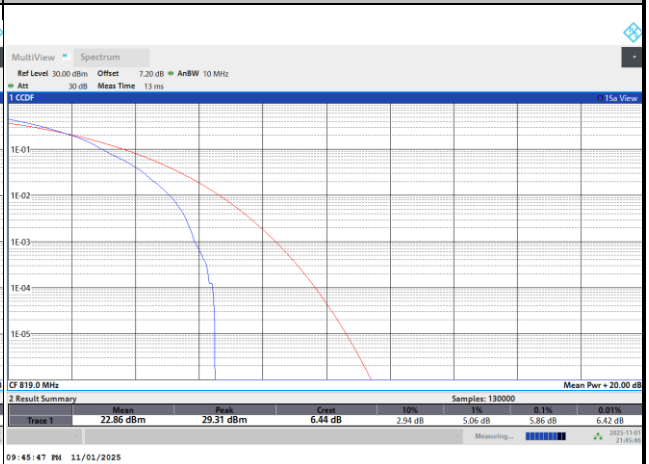
## QPSK



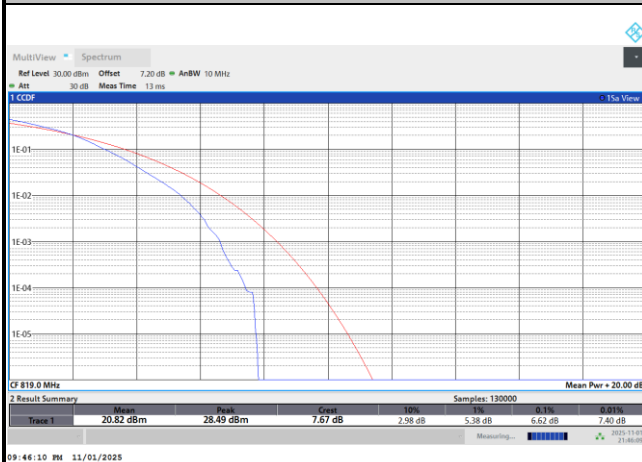
## 16QAM



## 64QAM



## 256QAM



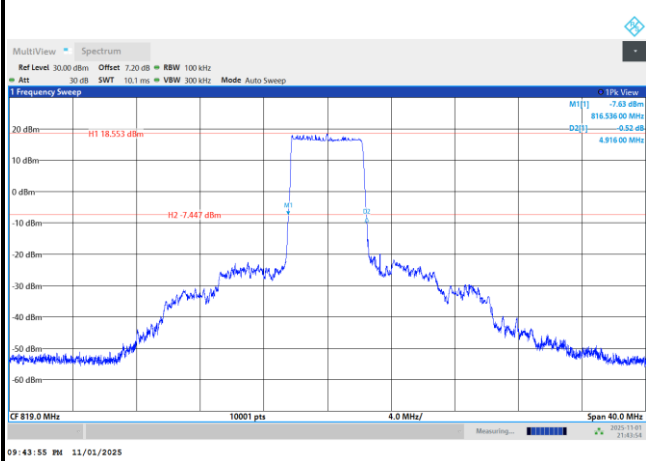
**26dB Bandwidth**

| Mode      | FR1 n26 : 26dB BW(MHz) / DFT-S OFDM |      |           |      |  |  |  |  |
|-----------|-------------------------------------|------|-----------|------|--|--|--|--|
| BW        | 5MHz                                |      | 10MHz     |      |  |  |  |  |
| Mod.      | PI/2 BPSK                           | QPSK | PI/2 BPSK | QPSK |  |  |  |  |
| Middle CH | 4.91                                | 5.78 | 9.55      | 9.57 |  |  |  |  |
| Mod.      | 16QAM                               |      | 16QAM     |      |  |  |  |  |
| Middle CH | 4.91                                |      | 9.52      |      |  |  |  |  |

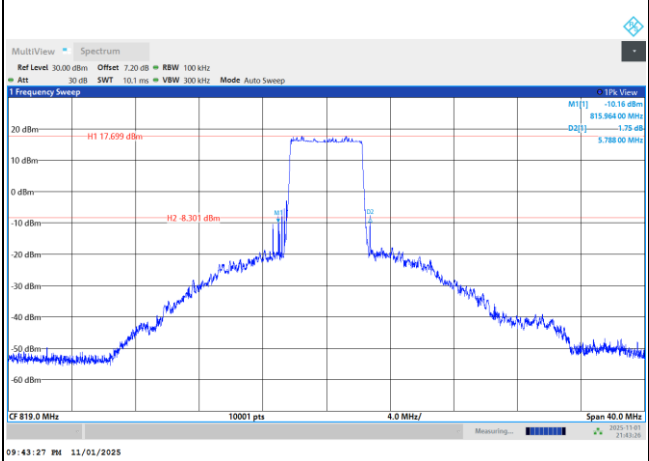


FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

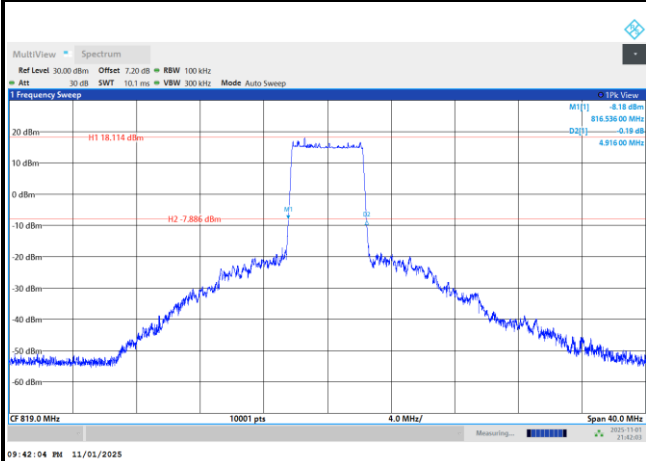
PI/2 BPSK



QPSK



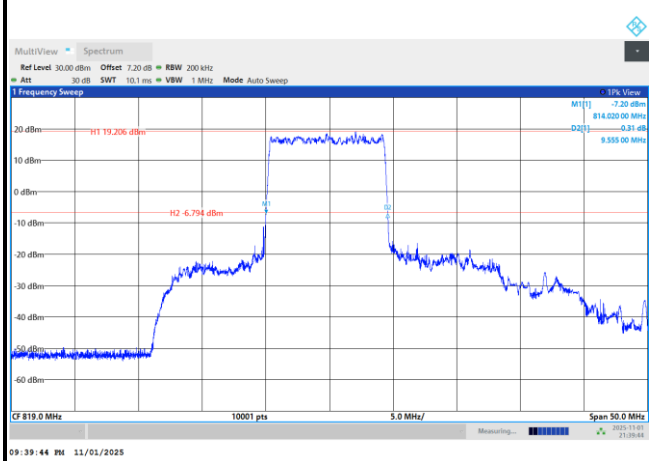
16QAM



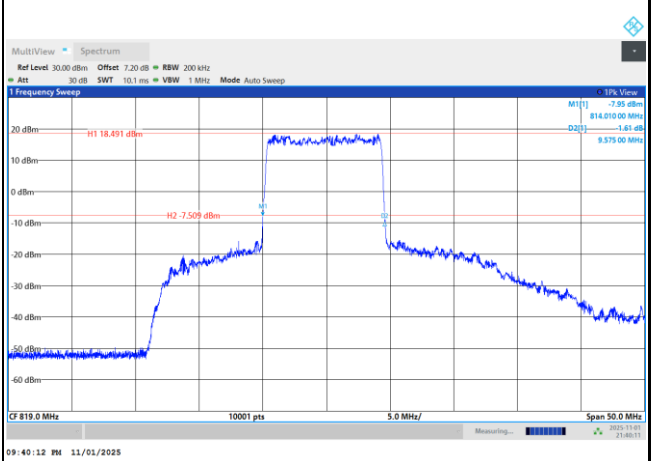


FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

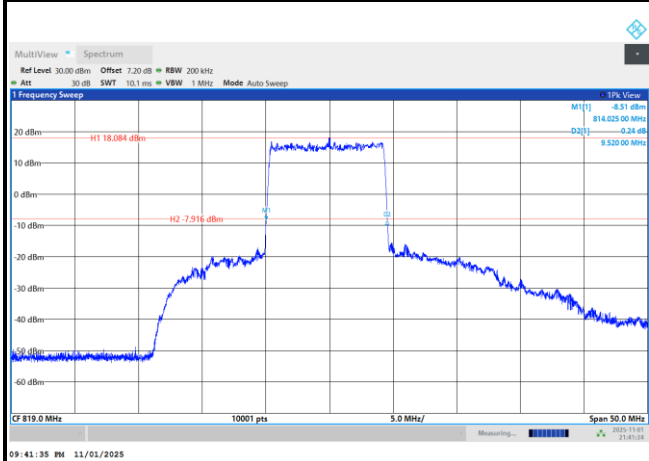
PI/2 BPSK



QPSK



16QAM



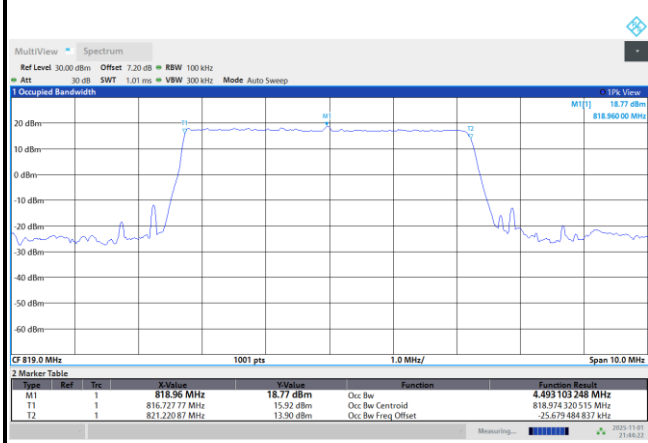
**Occupied Bandwidth**

| Mode      | FR1 n26 : 99%OBW(MHz) / DFT-S OFDM |      |           |      |  |  |  |  |
|-----------|------------------------------------|------|-----------|------|--|--|--|--|
| BW        | 5MHz                               |      | 10MHz     |      |  |  |  |  |
| Mod.      | PI/2 BPSK                          | QPSK | PI/2 BPSK | QPSK |  |  |  |  |
| Middle CH | 4.49                               | 4.51 | 9.02      | 8.96 |  |  |  |  |
| Mod.      | 16QAM                              |      | 16QAM     |      |  |  |  |  |
| Middle CH | 4.49                               |      | 8.96      |      |  |  |  |  |



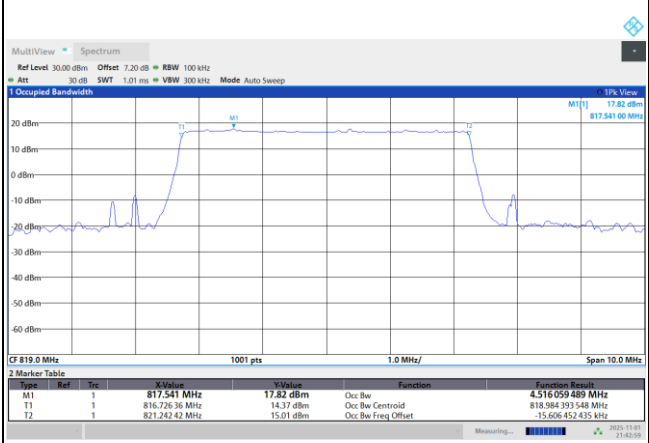
## FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



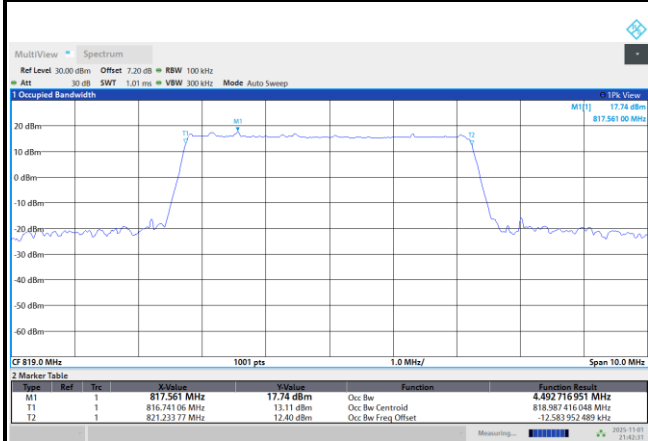
09:44:22 PM 11/01/2025

## QPSK



09:42:59 PM 11/01/2025

## 16QAM

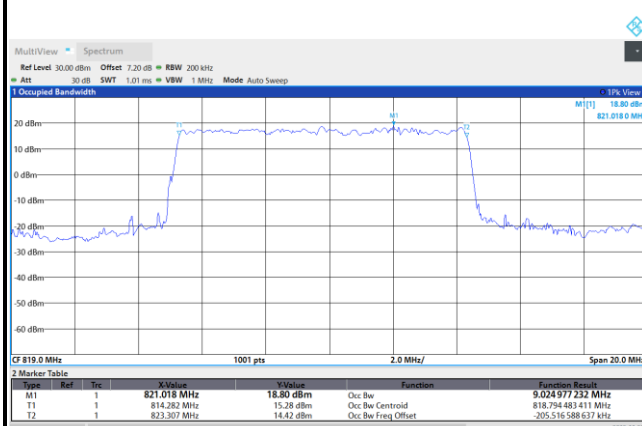


09:42:31 PM 11/01/2025



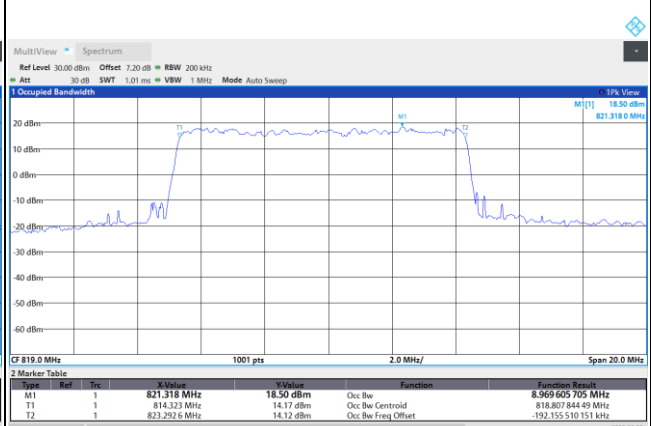
## FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



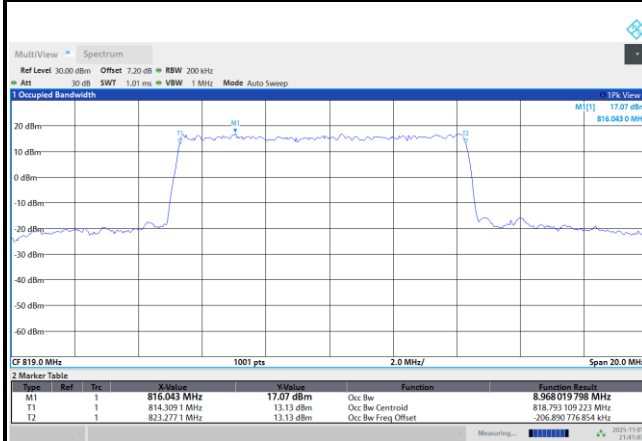
09:39:16 PM 11/01/2025

## QPSK



09:40:39 PM 11/01/2025

## 16QAM



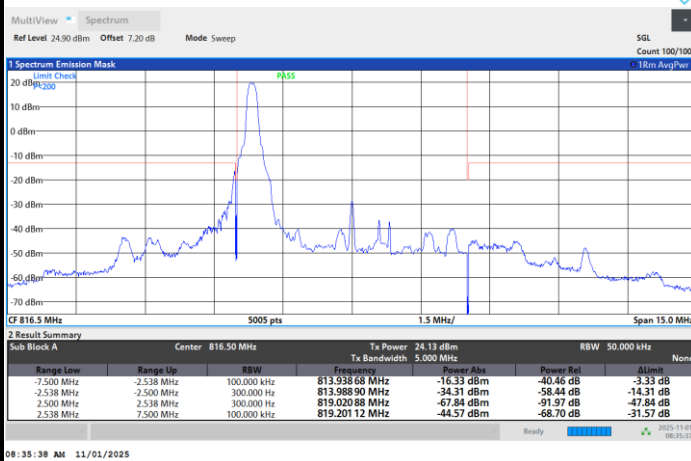
09:41:07 PM 11/01/2025



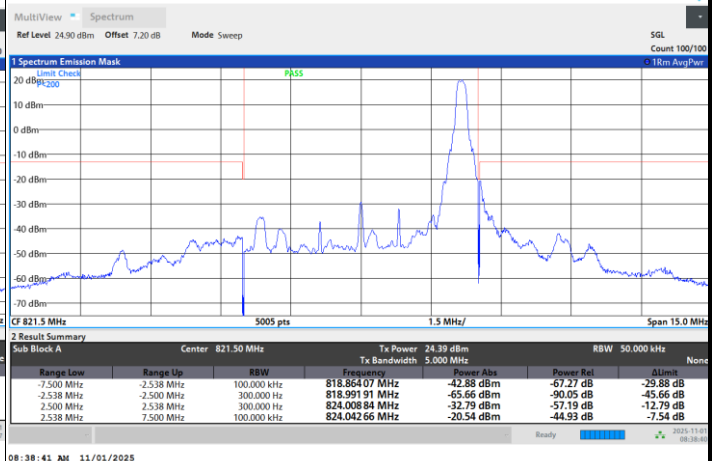
## Emission masks – In-band emissions

### FR1 n26 / 5MHz / DFT-S OFDM / PI/2 BPSK

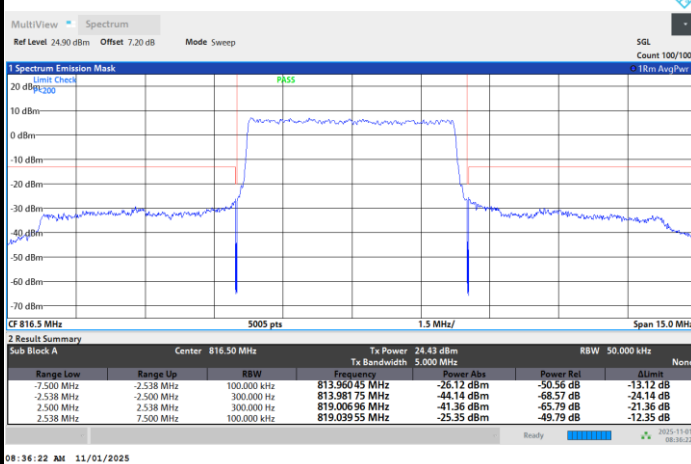
#### Lowest MASK / 1RB0



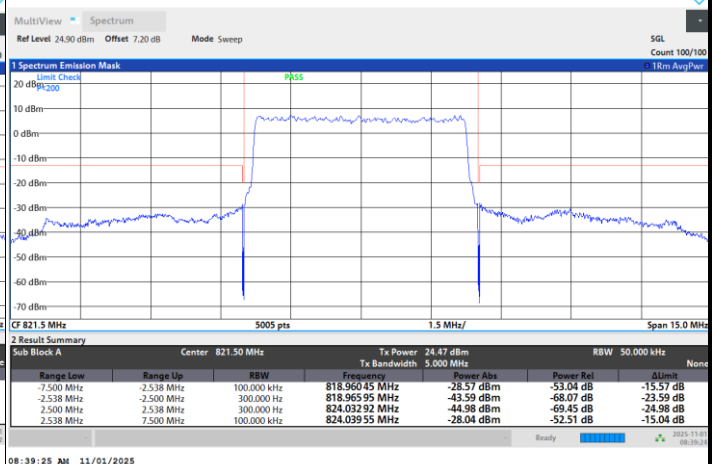
#### Highest MASK / 1RBmax



#### Lowest MASK / Full RB



#### Highest MASK / Full RB

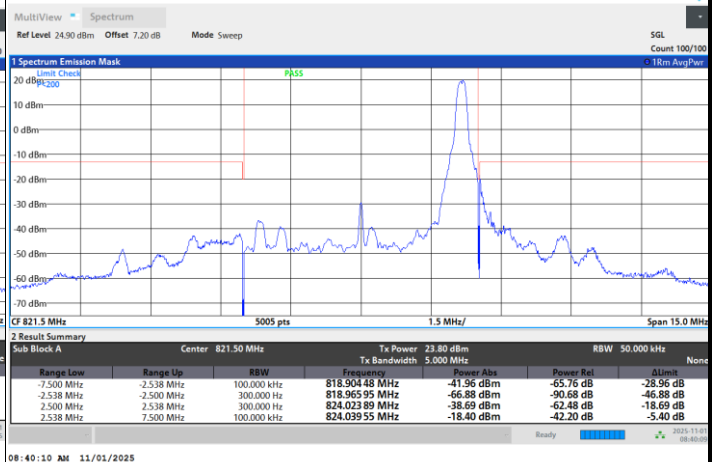
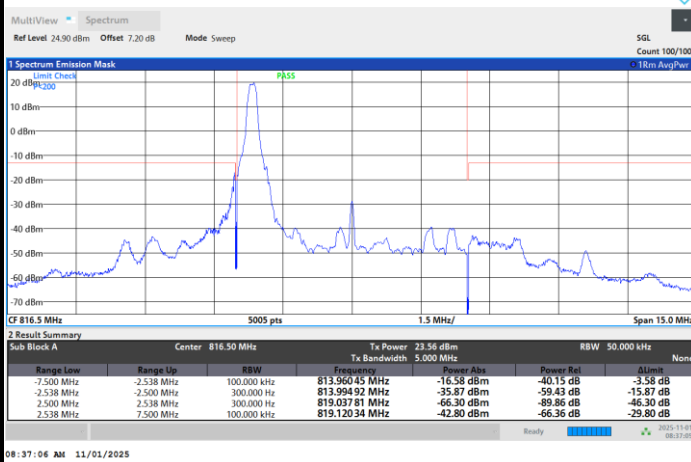




## FR1 n26 / 5MHz / DFT-S OFDM / QPSK

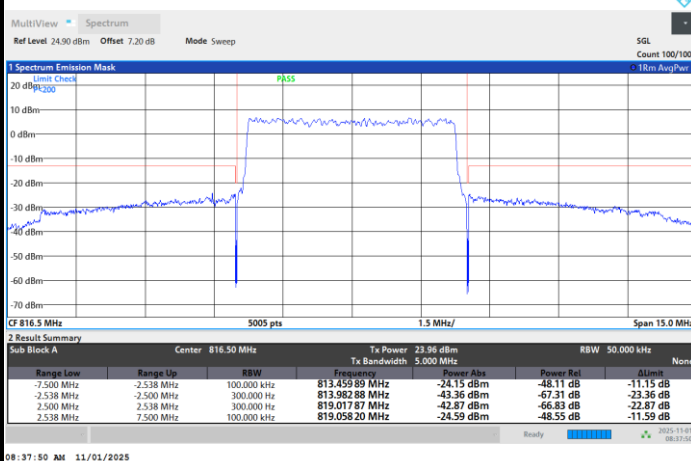
## Lowest MASK / 1RB0

## Highest MASK / 1RBmax



## Lowest MASK / Full RB

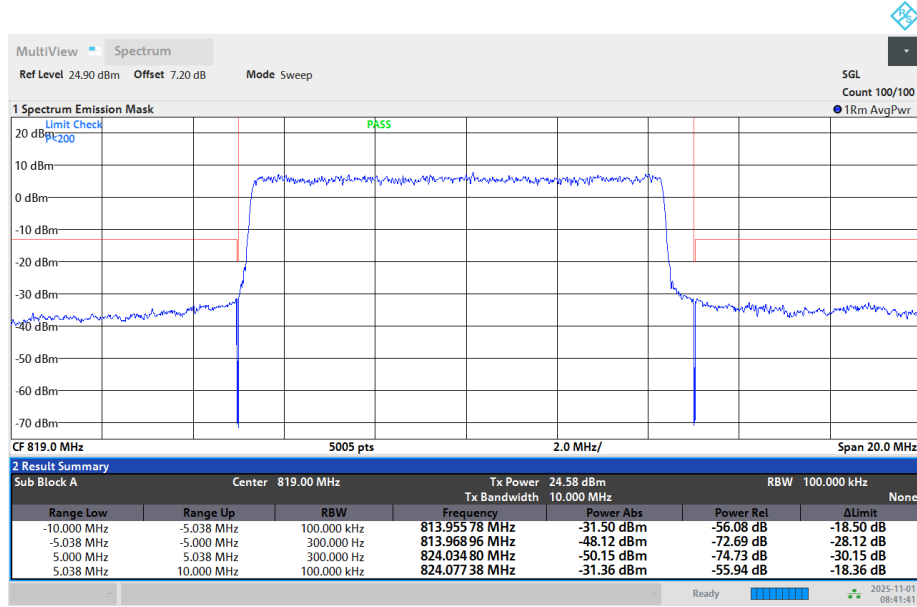
## Highest MASK / Full RB





## FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK

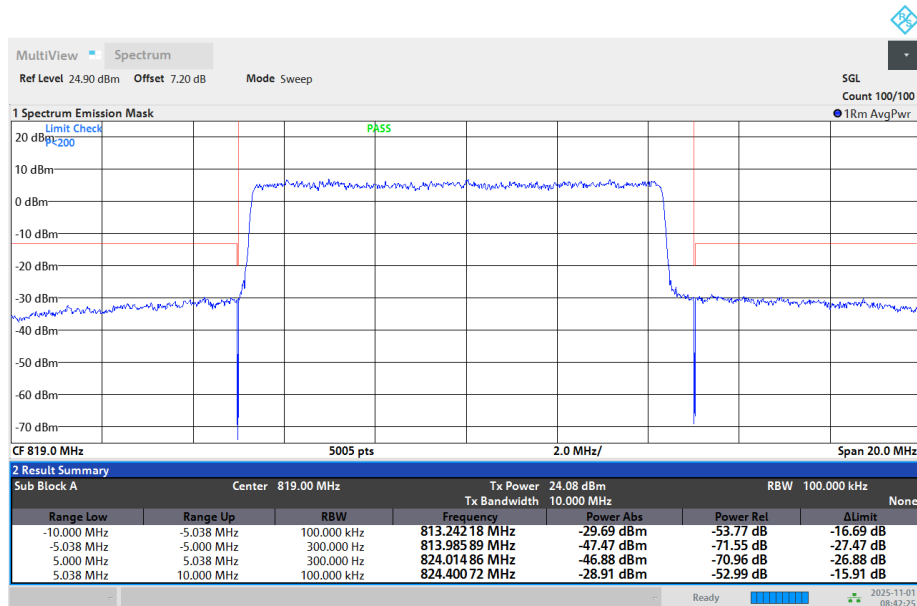
## Middle MASK / Full RB



08-41-42 AM 11/01/2025

## FR1 n26 / 10MHz / DFT-s-OFDM / QPSK

## Lowest MASK / Full RB



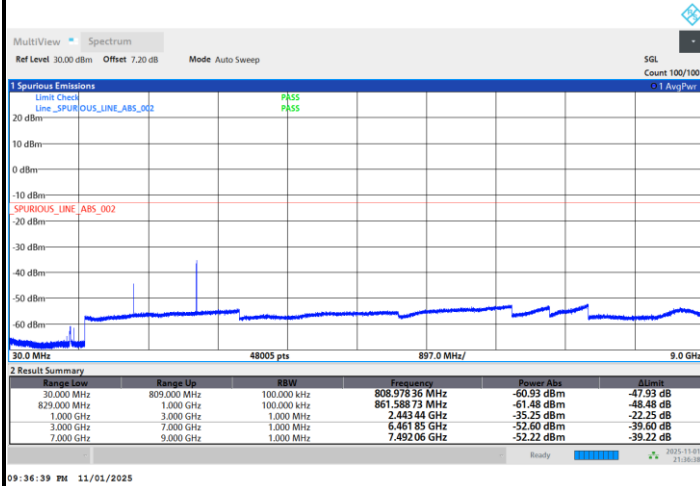
08-42-26 AM 11/01/2025



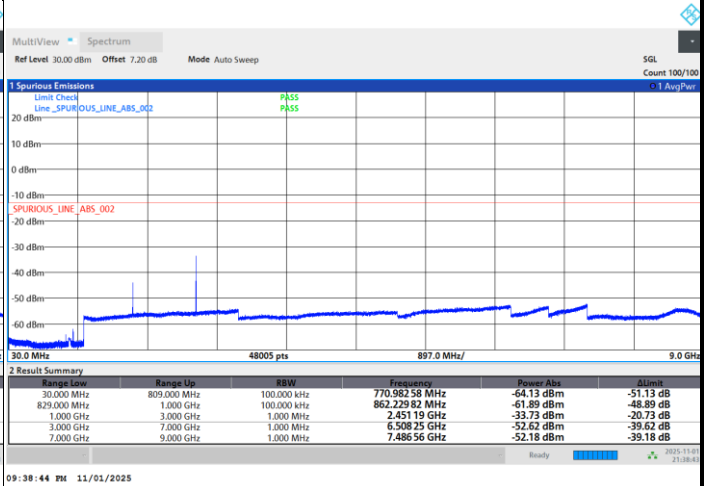
## Emission masks – Out of band emissions

### FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1

#### Lowest Channel



#### Middle Channel



#### Highest Channel

