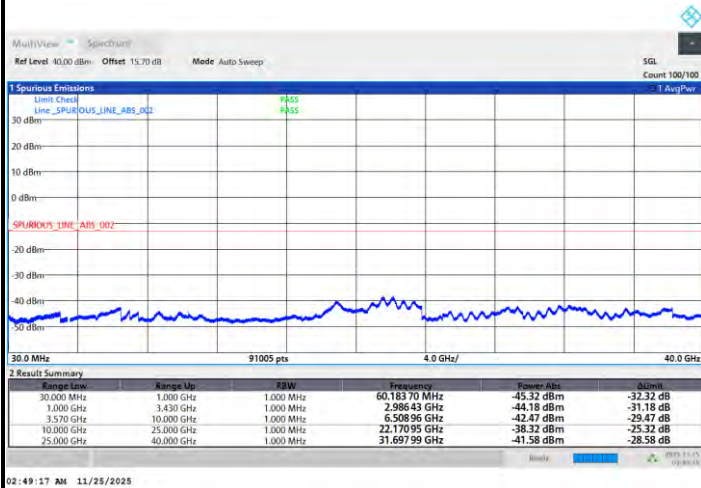




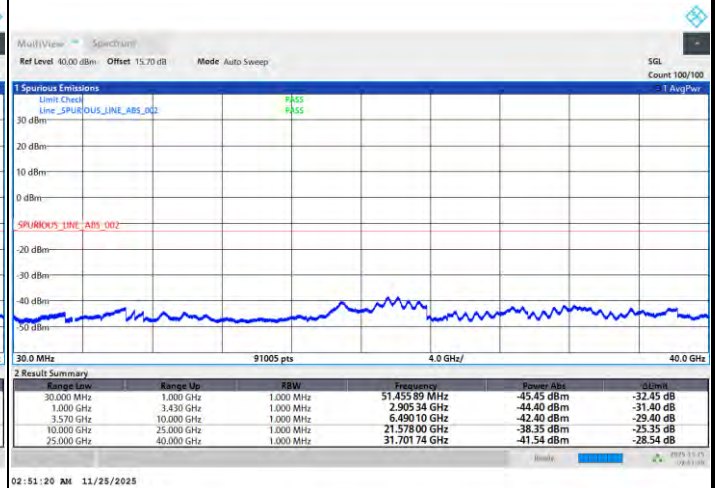
# Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

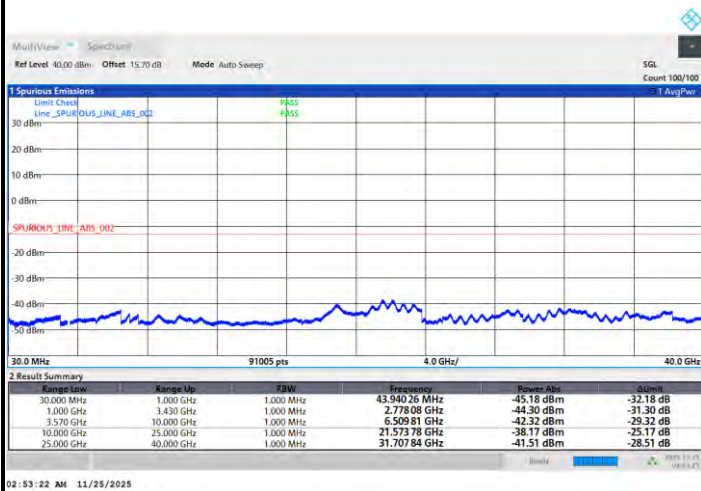
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n77 (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    | 0.0040                              | -13.9                                   | Yes                                         | PASS   |
| 40                  | Normal Voltage    | 0.0049                              | -17                                     | Yes                                         |        |
| 30                  | Normal Voltage    | 0.0007                              | -2.6                                    | Yes                                         |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                              | 0                                       | Yes                                         |        |
| 10                  | Normal Voltage    | 0.0031                              | -11                                     | Yes                                         |        |
| 0                   | Normal Voltage    | 0.0011                              | -3.9                                    | Yes                                         |        |
| -10                 | Normal Voltage    | 0.0023                              | -8.2                                    | Yes                                         |        |
| -20                 | Normal Voltage    | 0.0001                              | 0.3                                     | Yes                                         |        |
| -30                 | Normal Voltage    | 0.0037                              | -13.1                                   | Yes                                         |        |
| 20                  | Maximum Voltage   | 0.0003                              | -1.2                                    | Yes                                         |        |
| 20                  | Normal Voltage    | 0.0033                              | -11.7                                   | Yes                                         |        |
| 20                  | Minimum Voltage   | 0.0053                              | -18.5                                   | Yes                                         |        |

**Note:**

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 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.

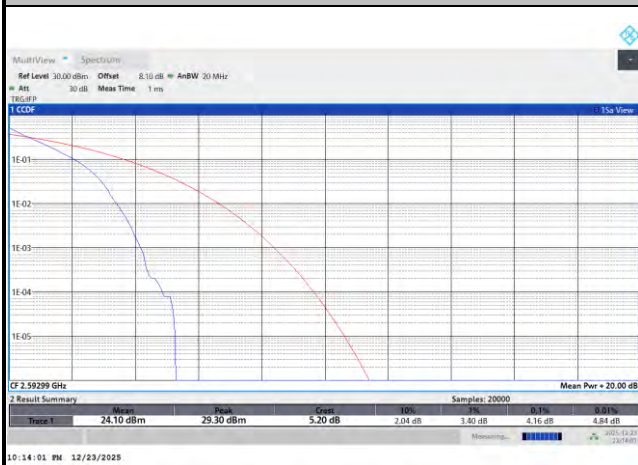
**FR1 n41****<TxD Mode>****MIMO <Ant. 2+1> (Ant. 2)****Peak-to-Average Ratio**

| Mode      | FR1 n41 / 20MHz / 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 | 4.16                         | 5.16    | 6.02    | 6.44    | <b>PASS</b> |
| Mode      | FR1 n41 / 20MHz / DFT-S OFDM |         |         |         |             |
| Mod.      | 256QAM                       |         |         |         | Limit: 13dB |
| RB Size   | Full RB                      |         |         |         | Result      |
| Middle CH | 7.02                         |         |         |         | <b>PASS</b> |

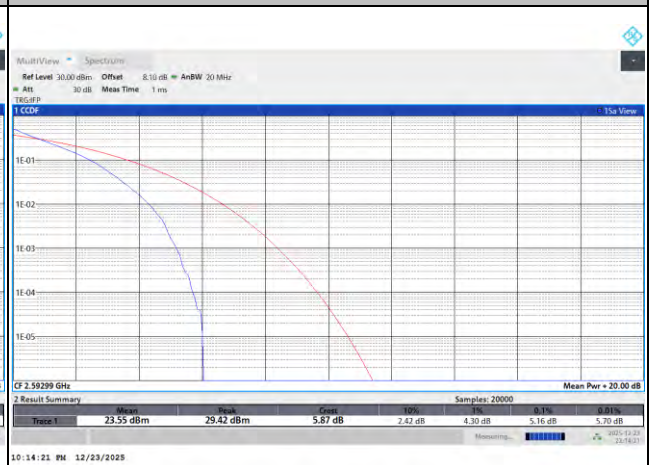


## FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

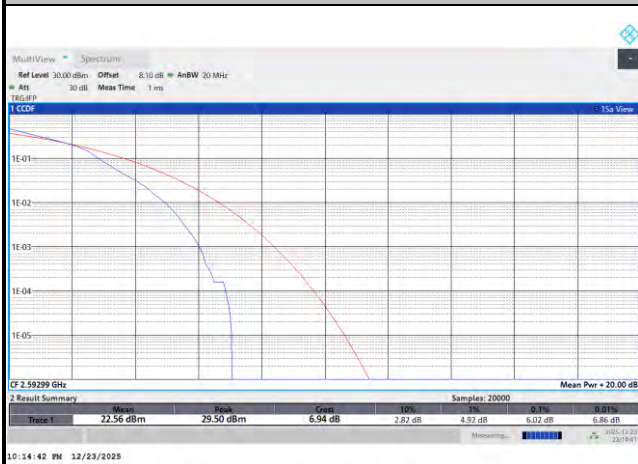
## PI/2 BPSK



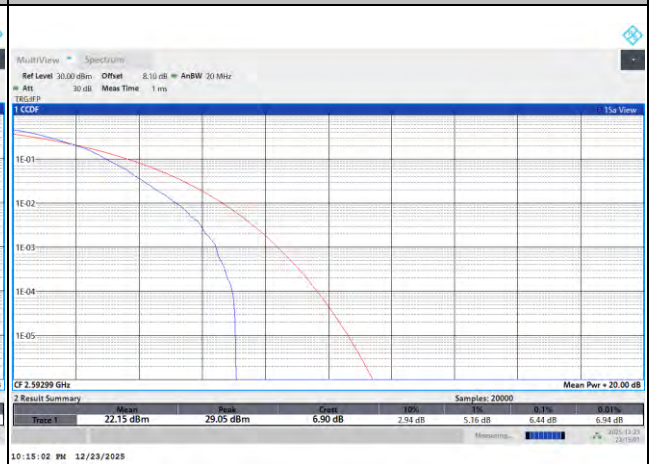
## QPSK



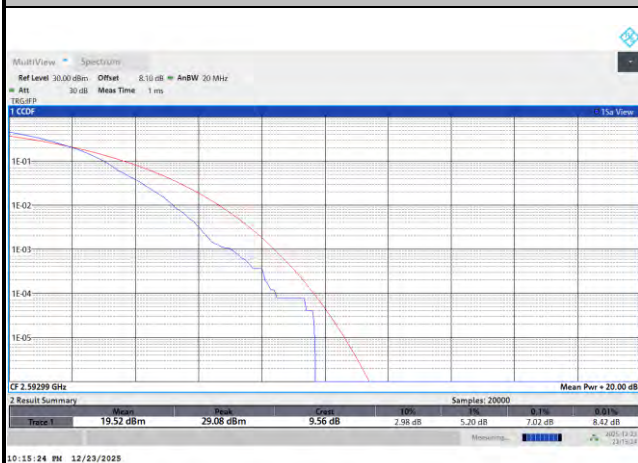
## 16QAM



## 64QAM



## 256QAM



| Mode      | FR1 n41 / 10MHz / DFT-S OFDM |         |             |
|-----------|------------------------------|---------|-------------|
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.04                         | 5.92    | PASS        |
| Mode      | FR1 n41 / 15MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.06                         | 6.02    | PASS        |
| Mode      | FR1 n41 / 25MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.08                         | 5.80    | PASS        |
| Mode      | FR1 n41 / 30MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.24                         | 6.00    | PASS        |
| Mode      | FR1 n41 / 40MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.16                         | 5.96    | PASS        |
| Mode      | FR1 n41 / 50MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 4.94                         | 5.82    | PASS        |
| Mode      | FR1 n41 / 60MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.20                         | 5.82    | PASS        |
| Mode      | FR1 n41 / 70MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.26                         | 5.94    | PASS        |
| Mode      | FR1 n41 / 80MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.20                         | 6.08    | PASS        |



| Mode      | FR1 n41 / 90MHz / DFT-S OFDM  |         |             |
|-----------|-------------------------------|---------|-------------|
| Mod.      | QPSK                          | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                       | Full RB | Result      |
| Middle CH | 5.06                          | 6.14    | <b>PASS</b> |
| Mode      | FR1 n41 / 100MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                          | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                       | Full RB | Result      |
| Middle CH | 4.98                          | 5.78    | <b>PASS</b> |



## FR1 n41 / 10MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 15MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 25MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



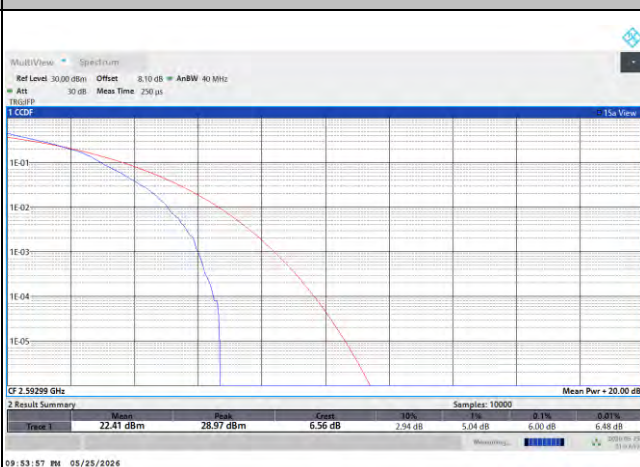


## FR1 n41 / 30MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK

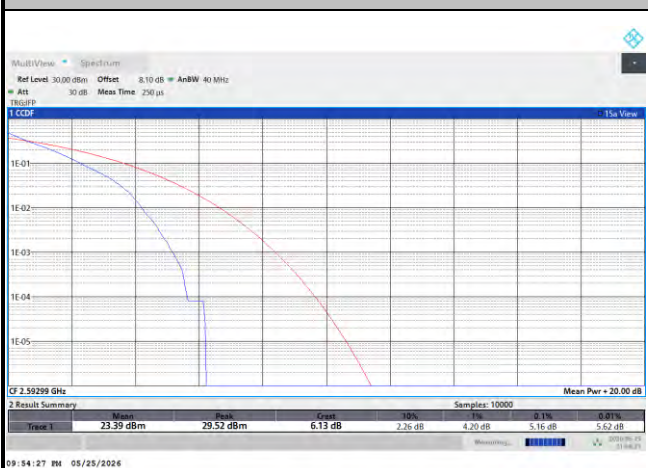


## 16QAM

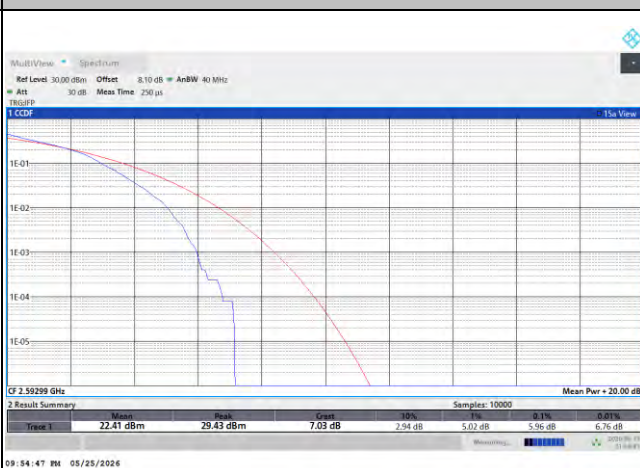


## FR1 n41 / 40MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK

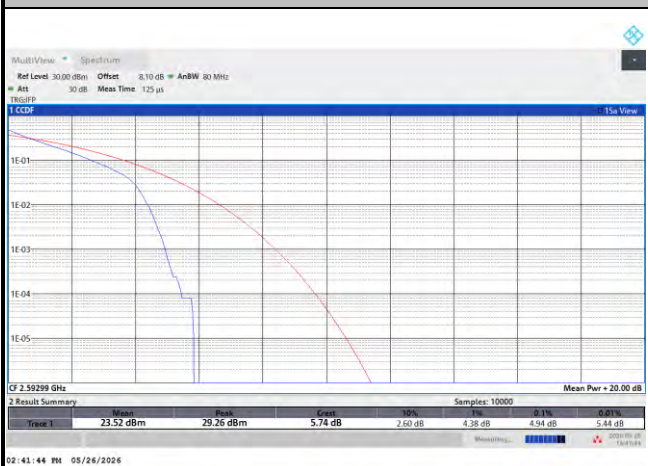


## 16QAM



## FR1 n41 / 50MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



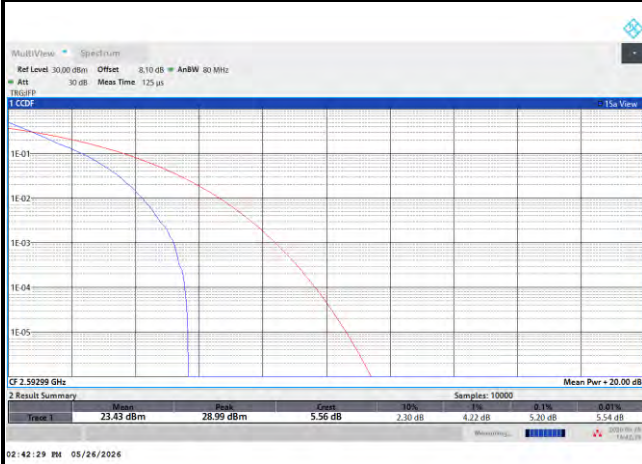
## 16QAM





## FR1 n41 / 60MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 70MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 80MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



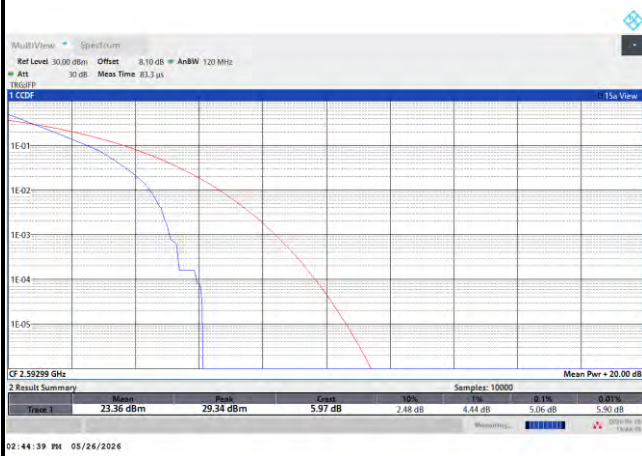
## 16QAM





## FR1 n41 / 90MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK

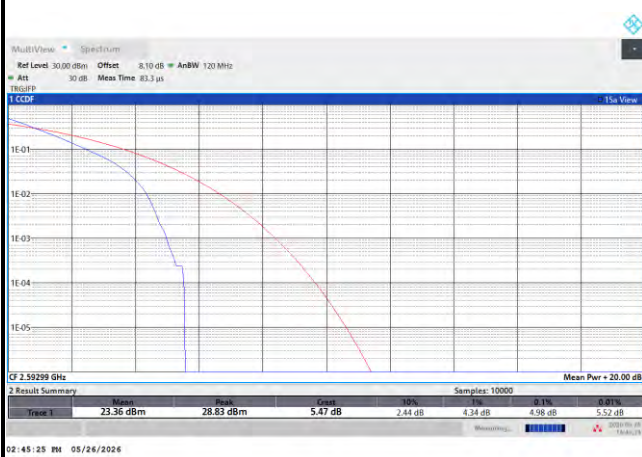


## 16QAM

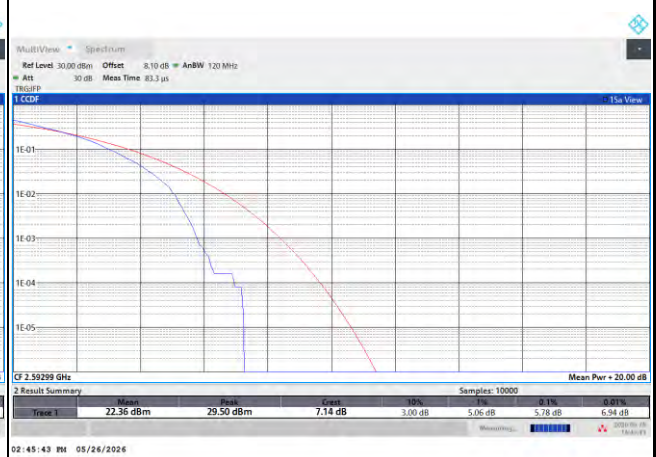


## FR1 n41 / 100MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



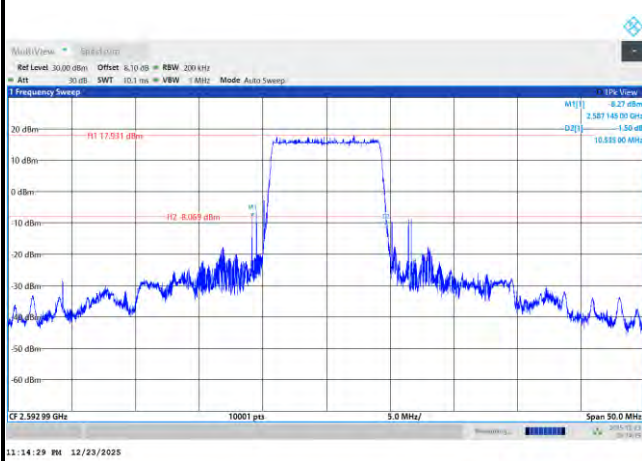
**26dB Bandwidth**

| Mode      | FR1 n41 : 26dB BW(MHz) / DFT-S OFDM |       |           |       |           |       |           |        |
|-----------|-------------------------------------|-------|-----------|-------|-----------|-------|-----------|--------|
| BW        | 10MHz                               |       | 15MHz     |       | 20MHz     |       | 25MHz     |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 10.53                               | 9.38  | 13.84     | 13.93 | 18.99     | 18.92 | 24.34     | 24.28  |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 9.96                                |       | 13.85     |       | 19.04     |       | 24.51     |        |
| BW        | 30MHz                               |       | 40MHz     |       | 50MHz     |       | 60MHz     |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 29.14                               | 29.40 | 38.23     | 38.67 | 48.24     | 48.41 | 62.32     | 63.07  |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 29.40                               |       | 38.52     |       | 48.37     |       | 62.94     |        |
| BW        | 70MHz                               |       | 80MHz     |       | 90MHz     |       | 100MHz    |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 68.98                               | 72.81 | 81.98     | 82.27 | 91.83     | 91.91 | 101.47    | 101.63 |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 74.64                               |       | 83.48     |       | 92.00     |       | 101.63    |        |

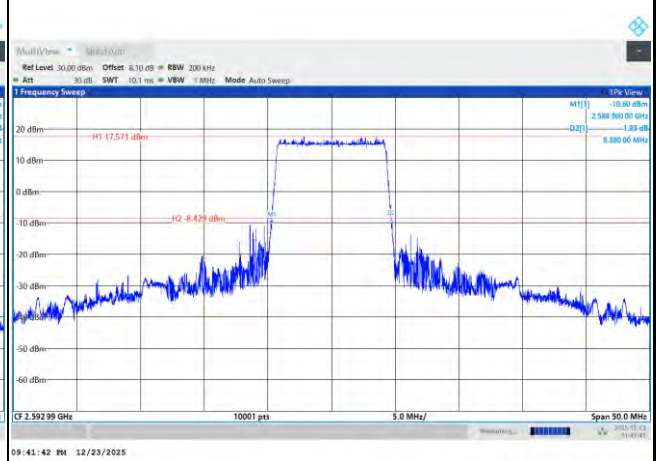


FR1 n41 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

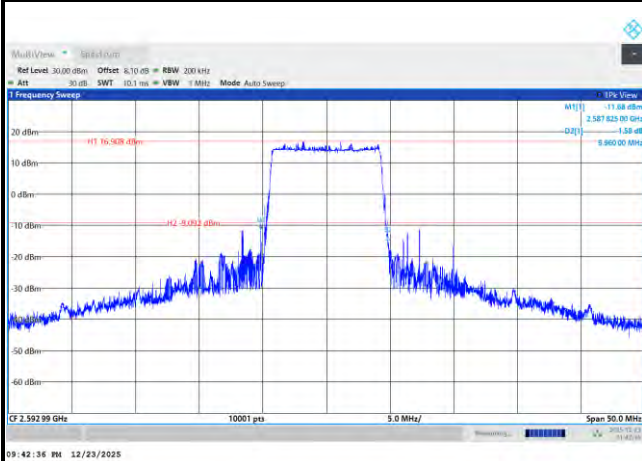
PI/2 BPSK



QPSK



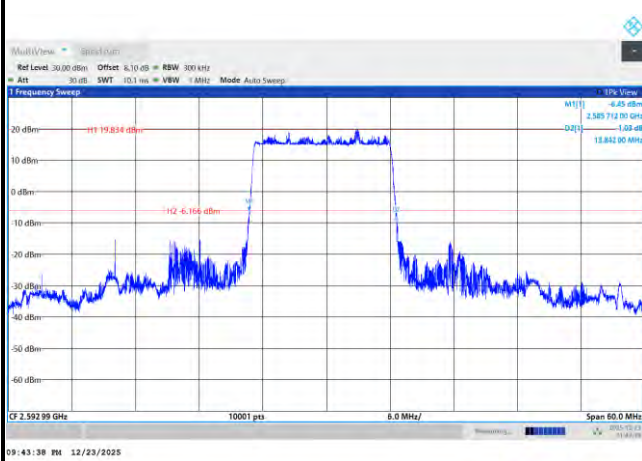
16QAM



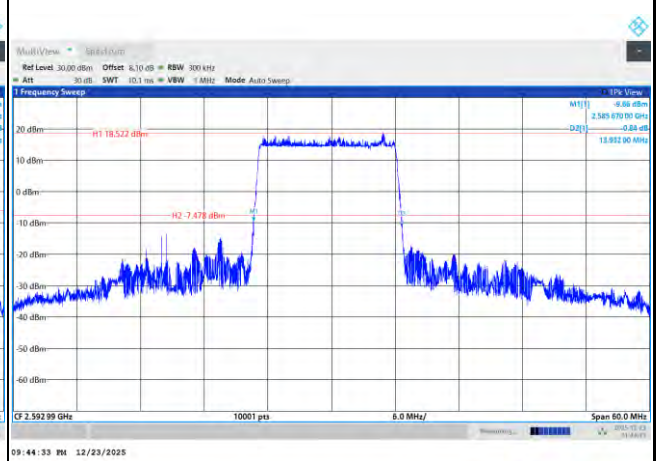


FR1 n41 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

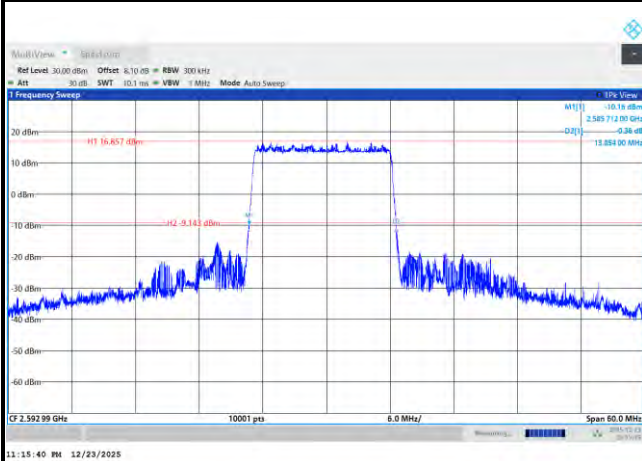
PI/2 BPSK



QPSK



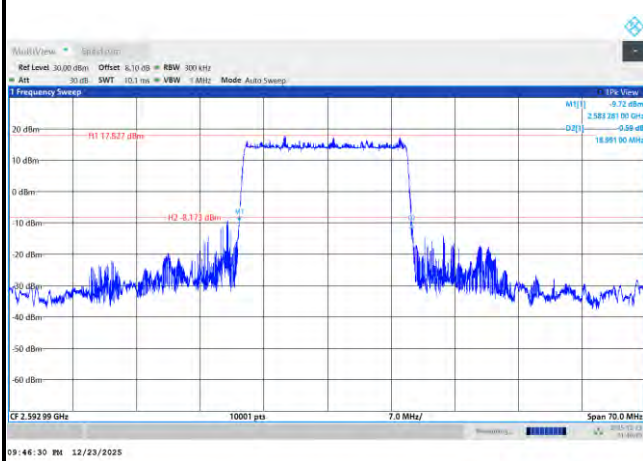
16QAM



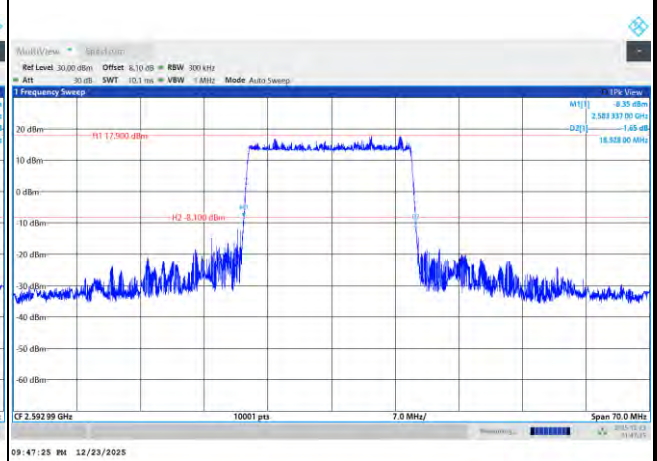


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

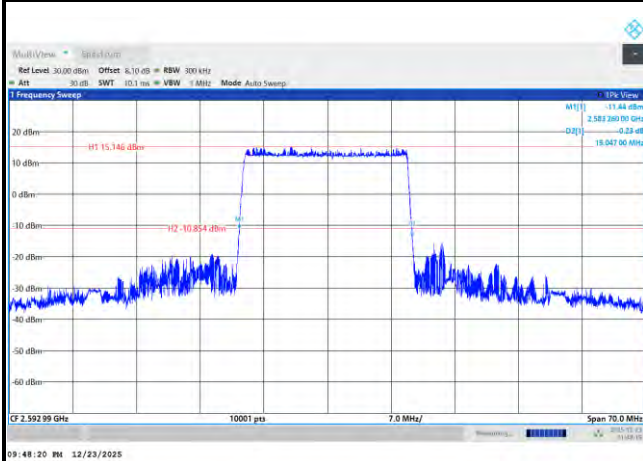
PI/2 BPSK



QPSK



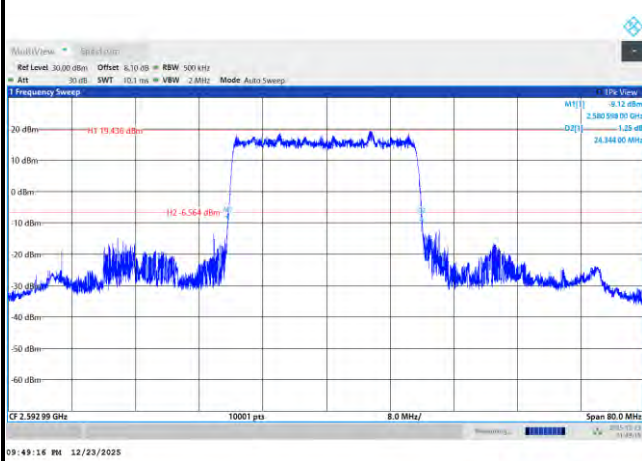
16QAM



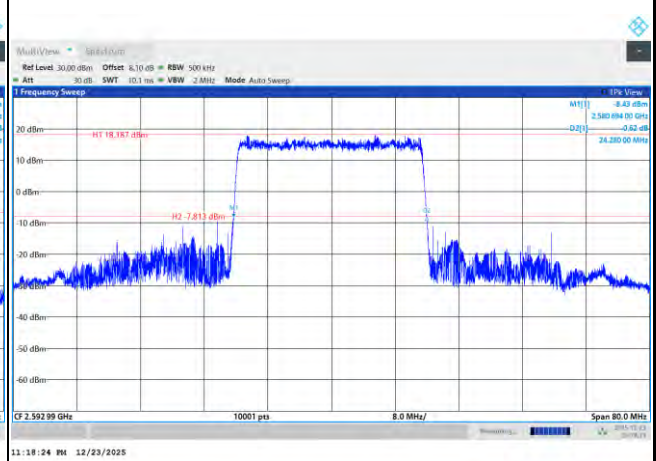


FR1 n41 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

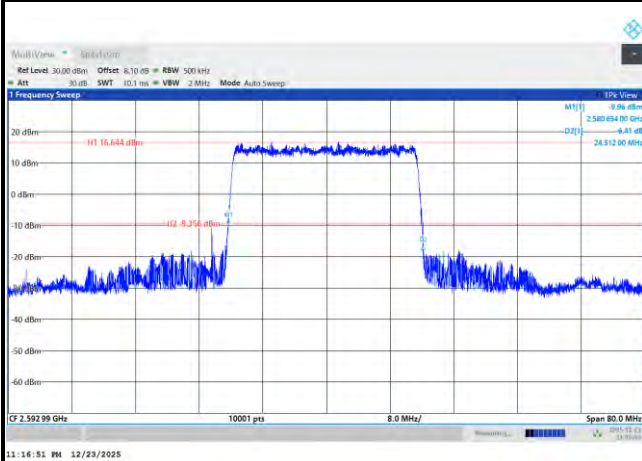
PI/2 BPSK



QPSK



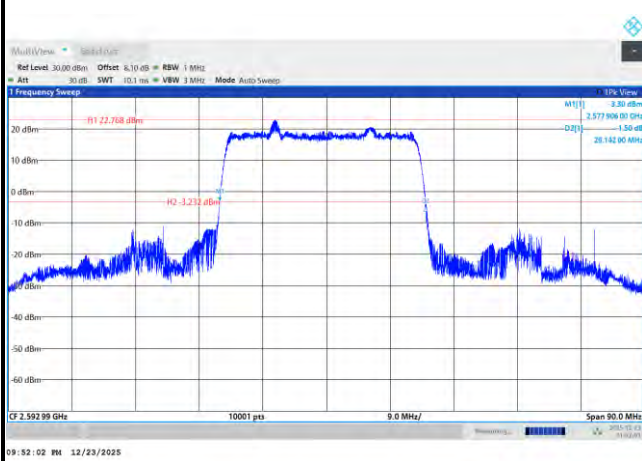
16QAM



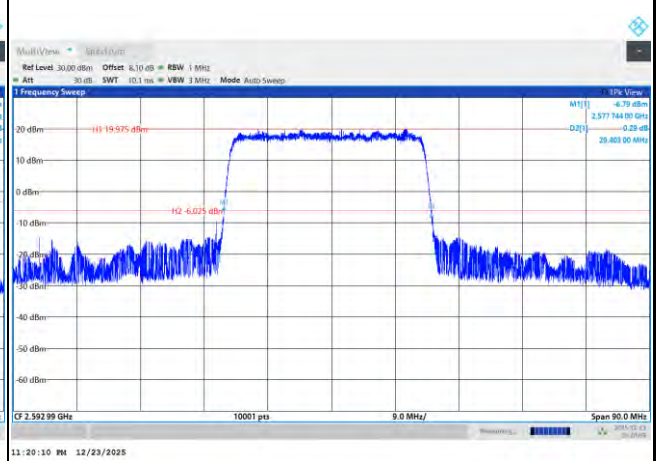


FR1 n41 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

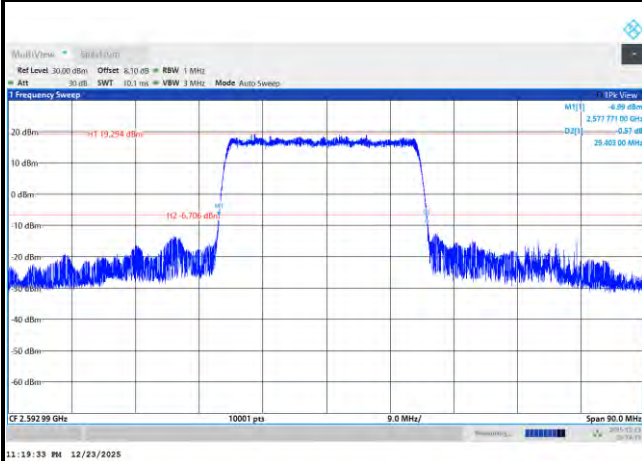
PI/2 BPSK



QPSK



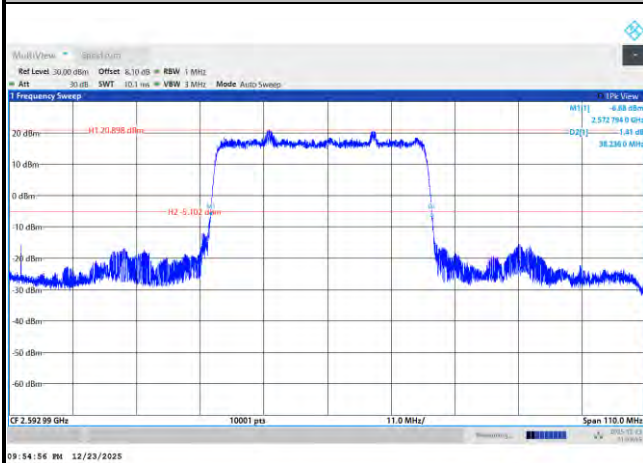
16QAM



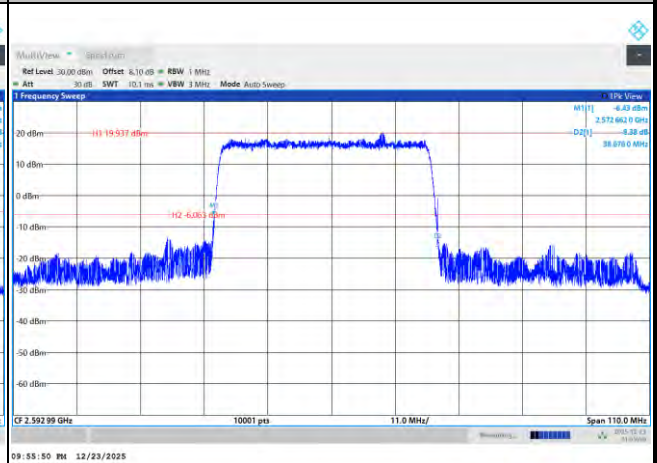


## FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

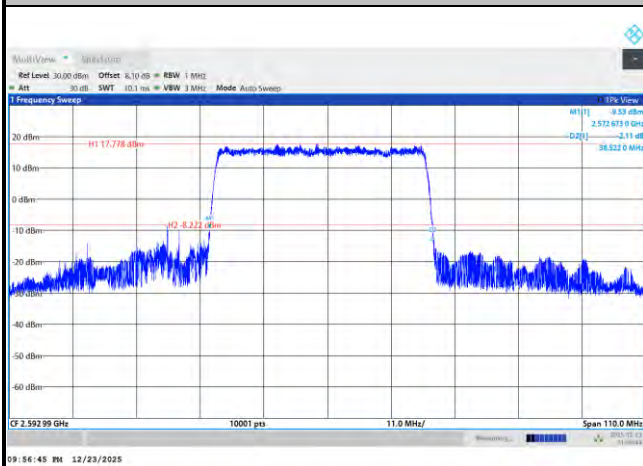
## PI/2 BPSK



## QPSK



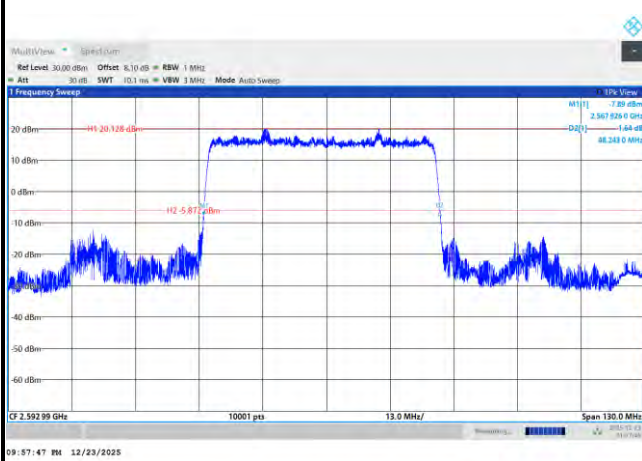
## 16QAM



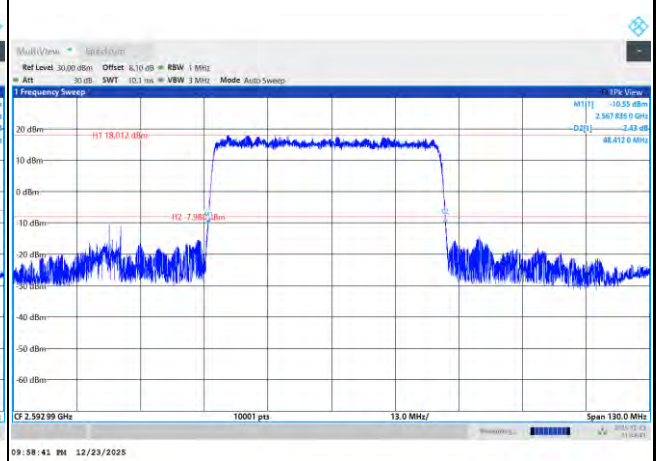


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

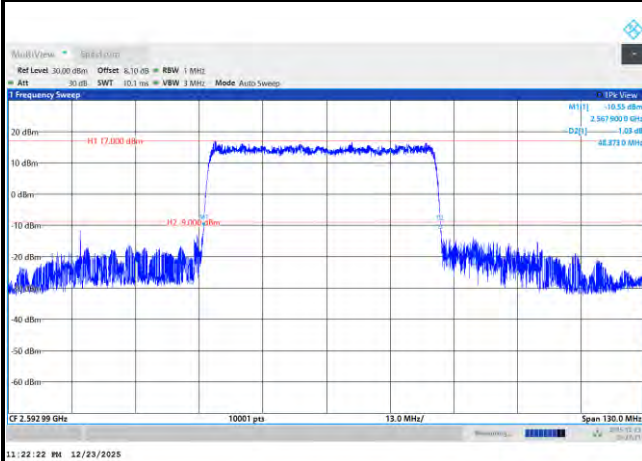
PI/2 BPSK



QPSK



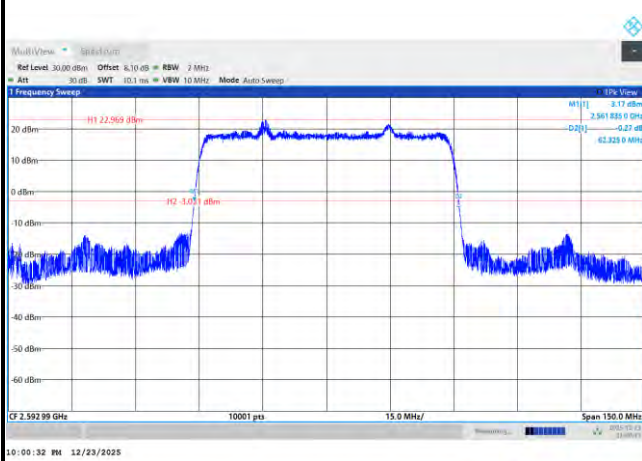
16QAM



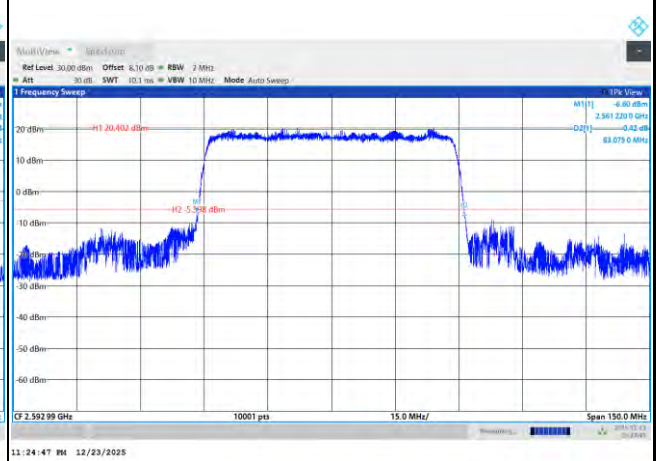


FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

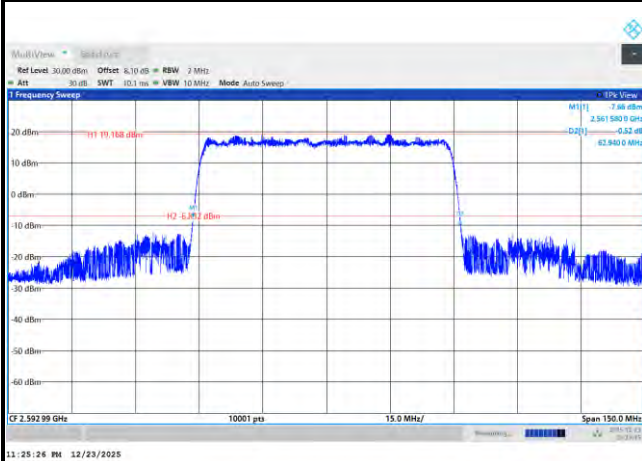
PI/2 BPSK



QPSK



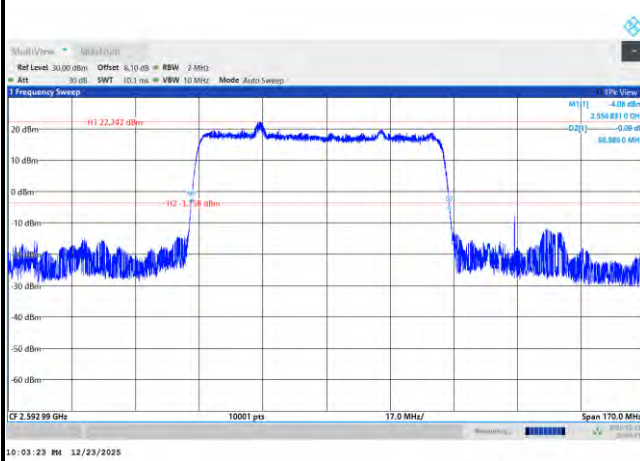
16QAM



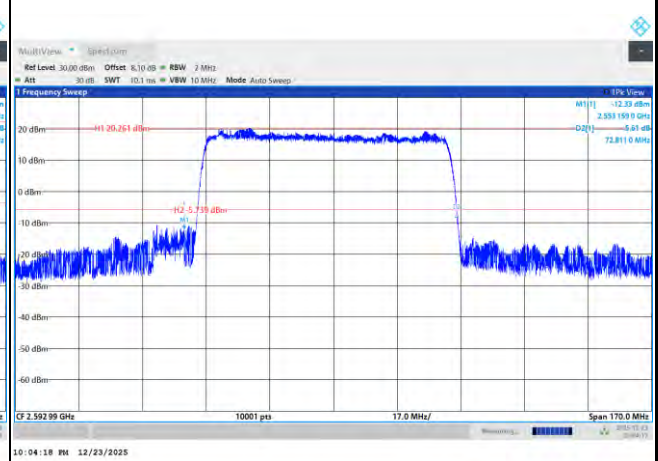


## FR1 n41 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

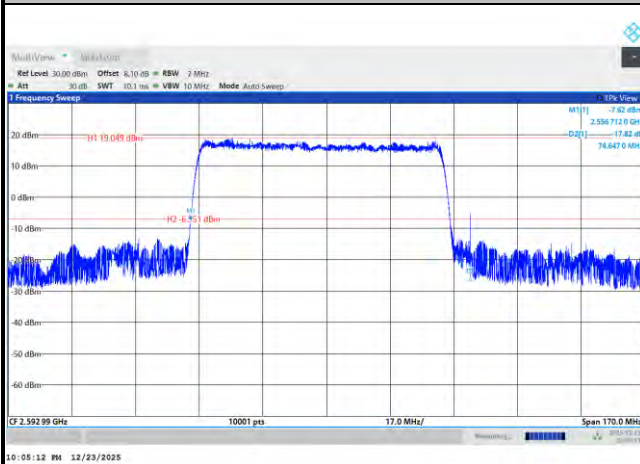
## PI/2 BPSK



## QPSK



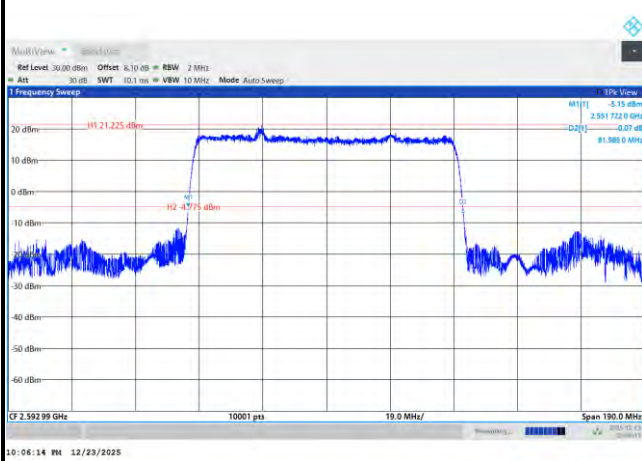
## 16QAM



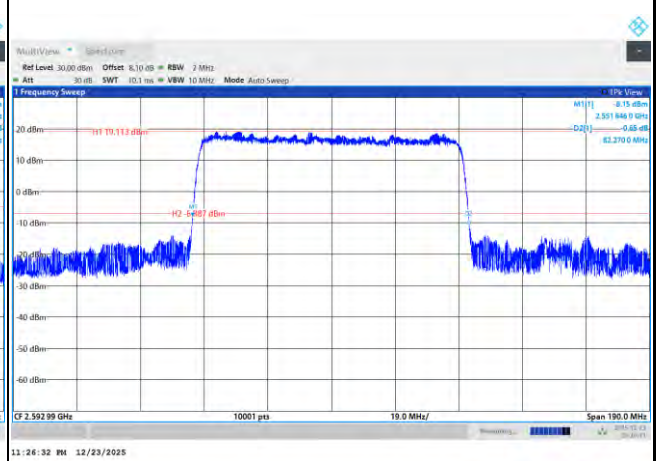


FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

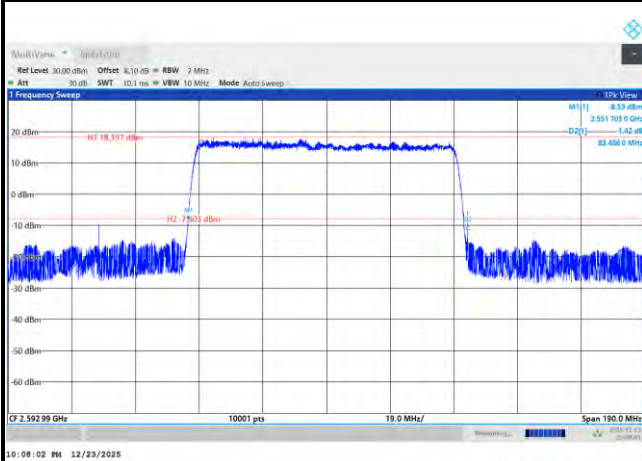
PI/2 BPSK

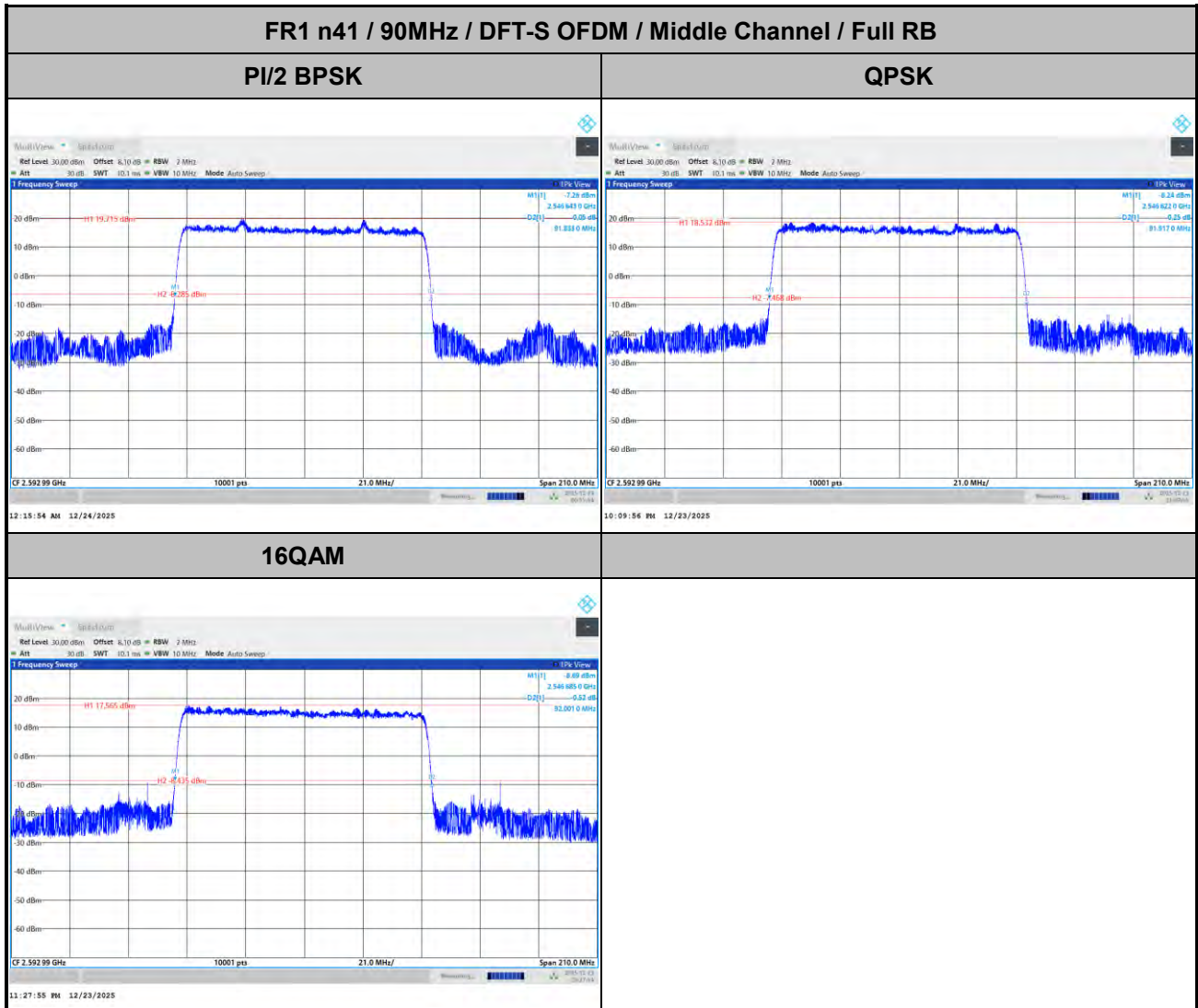


QPSK



16QAM

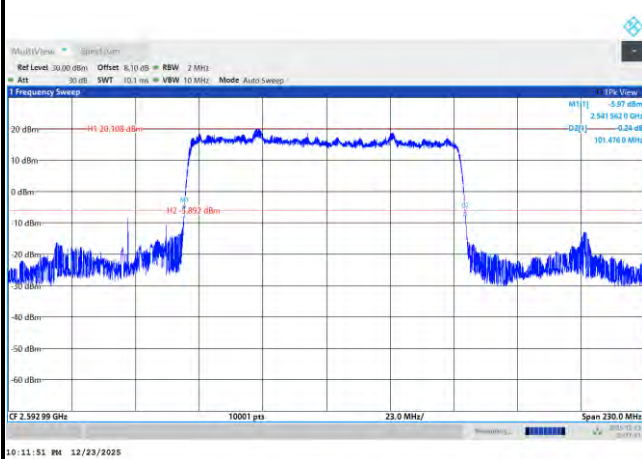




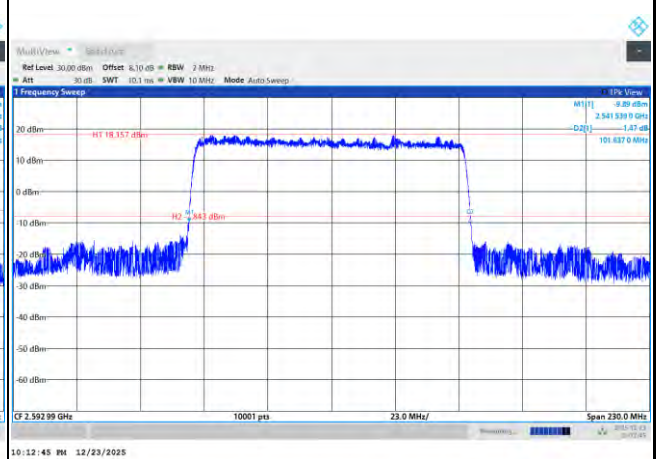


FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

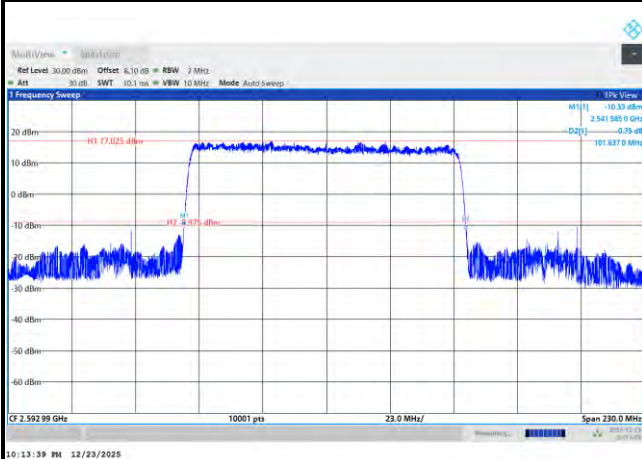
PI/2 BPSK



QPSK



16QAM



**Occupied Bandwidth**

| Mode      | FR1 n41 : 99%OBW(MHz) / DFT-S OFDM |       |           |       |           |       |           |       |
|-----------|------------------------------------|-------|-----------|-------|-----------|-------|-----------|-------|
| BW        | 10MHz                              |       | 15MHz     |       | 20MHz     |       | 25MHz     |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 8.62                               | 8.61  | 12.94     | 12.93 | 17.90     | 17.89 | 22.92     | 23.04 |
| Mod.      | 16QAM                              |       | 16QAM     |       | 16QAM     |       | 16QAM     |       |
| Middle CH | 8.63                               |       | 12.94     |       | 17.91     |       | 22.98     |       |
| BW        | 30MHz                              |       | 40MHz     |       | 50MHz     |       | 60MHz     |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 27.07                              | 27.18 | 35.98     | 35.98 | 45.78     | 45.85 | 58.42     | 58.48 |
| Mod.      | 16QAM                              |       | 16QAM     |       | 16QAM     |       | 16QAM     |       |
| Middle CH | 27.17                              |       | 36.03     |       | 45.86     |       | 58.57     |       |
| BW        | 70MHz                              |       | 80MHz     |       | 90MHz     |       | 100MHz    |       |
| Mod.      | PI/2 BPSK                          | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  |
| Middle CH | 64.91                              | 64.94 | 77.55     | 77.57 | 87.01     | 87.06 | 96.71     | 96.64 |
| Mod.      | 16QAM                              |       | 16QAM     |       | 16QAM     |       | 16QAM     |       |
| Middle CH | 64.97                              |       | 77.58     |       | 87.13     |       | 96.66     |       |



## FR1 n41 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



09:40:20 PM 12/23/2025

## QPSK



09:41:15 PM 12/23/2025

## 16QAM



09:42:09 PM 12/23/2025



## FR1 n41 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



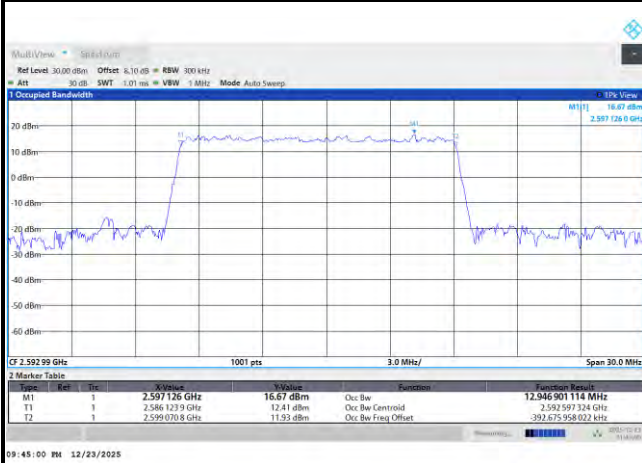
09:43:11 PM 12/23/2025

## QPSK



09:44:06 PM 12/23/2025

## 16QAM



09:45:00 PM 12/23/2025



## FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



09:46:03 PM 12/23/2025

## QPSK



09:46:58 PM 12/23/2025

## 16QAM



09:47:53 PM 12/23/2025



## FR1 n41 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



09:48:49 PM 12/23/2025

## QPSK



09:49:44 PM 12/23/2025

## 16QAM

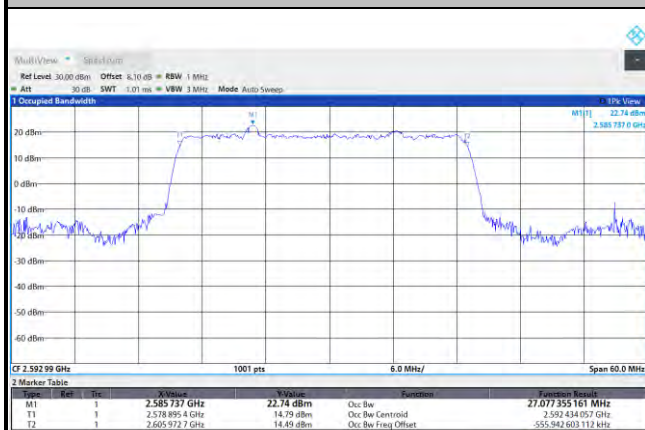


09:50:38 PM 12/23/2025



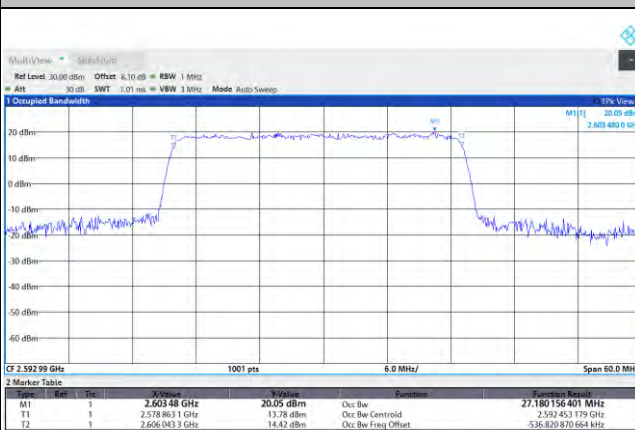
## FR1 n41 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



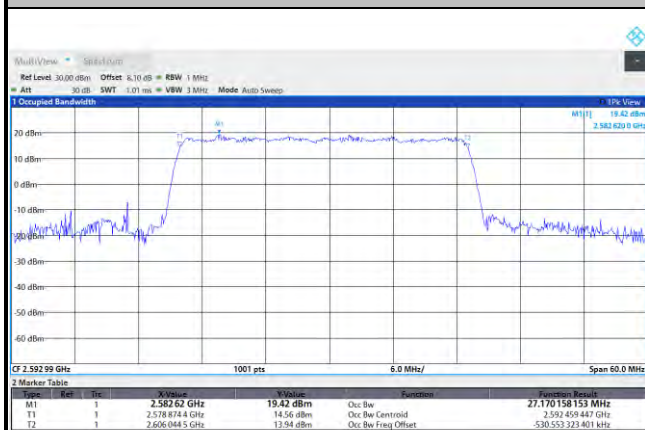
09:51:35 PM 12/23/2025

## QPSK



09:52:29 PM 12/23/2025

## 16QAM

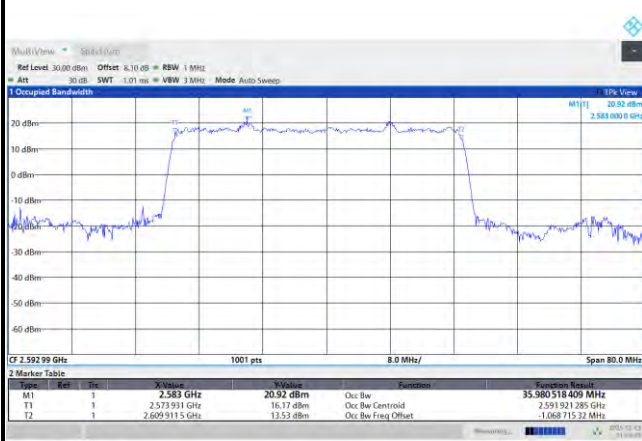


09:53:23 PM 12/23/2025



## FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



09:54:28 PM 12/23/2025

## QPSK



09:55:23 PM 12/23/2025

## 16QAM



09:56:18 PM 12/23/2025



## FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



09:57:20 PM 12/23/2025

## QPSK



09:58:14 PM 12/23/2025

## 16QAM



09:59:09 PM 12/23/2025



## FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



10:00:04 PM 12/23/2025

## QPSK



10:01:00 PM 12/23/2025

## 16QAM

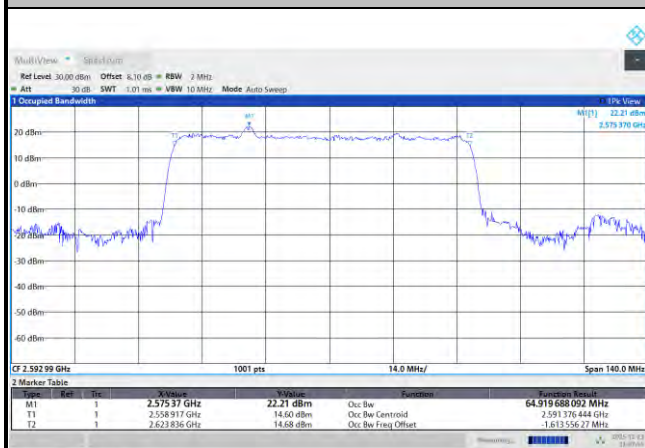


10:01:55 PM 12/23/2025



## FR1 n41 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



10:02:56 PM 12/23/2025

## QPSK



10:03:51 PM 12/23/2025

## 16QAM



10:04:45 PM 12/23/2025



## FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



10:05:47 PM 12/23/2025

## QPSK



10:06:41 PM 12/23/2025

## 16QAM



10:07:35 PM 12/23/2025



## FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



10:08:36 PM 12/23/2025

## QPSK



10:09:30 PM 12/23/2025

## 16QAM



10:10:24 PM 12/23/2025



## FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK



10:11:25 PM 12/23/2025

## QPSK



12:19:13 AM 12/24/2025

## 16QAM



10:13:12 PM 12/23/2025

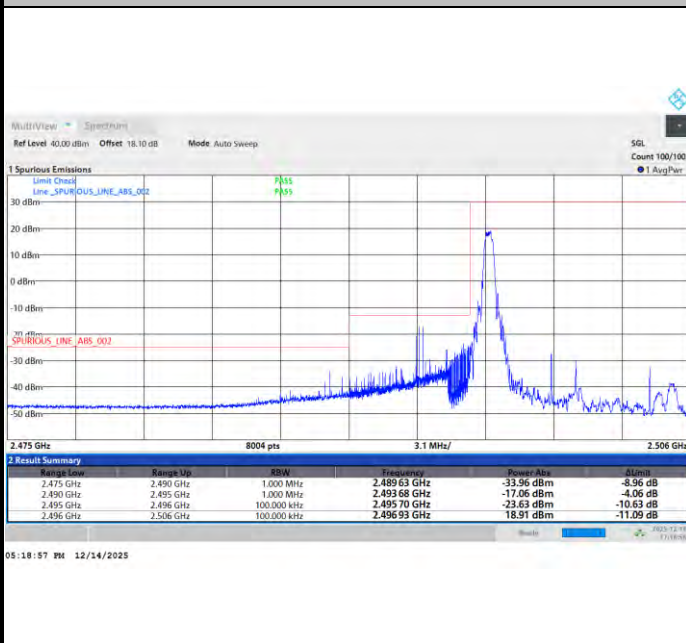
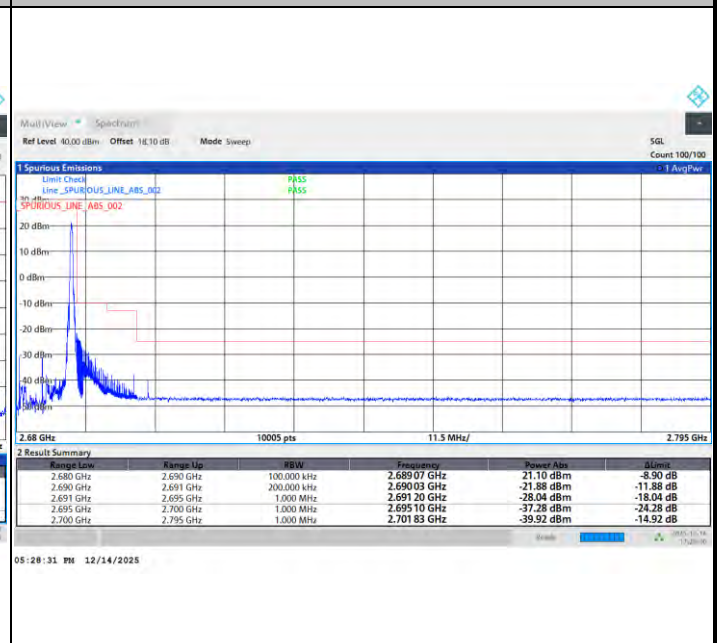


## Conducted Band Edge

FR1 n41 / 10MHz / DFT-S OFDM / PI/2 BPSK

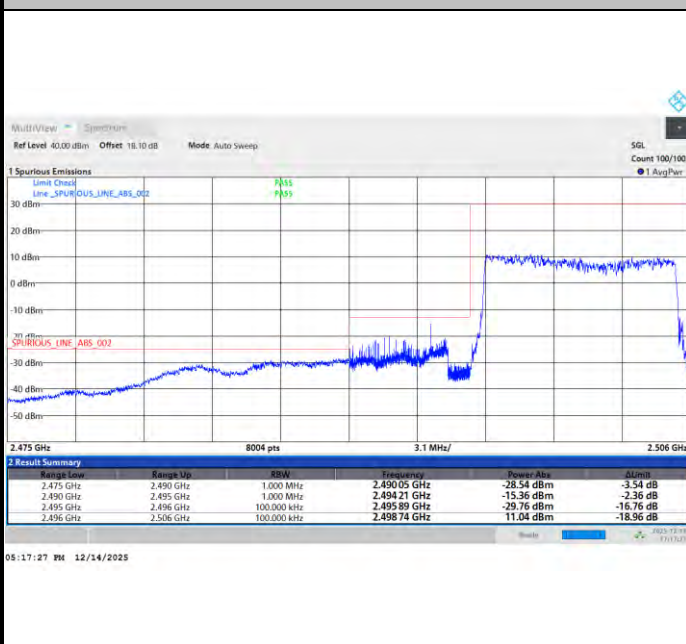
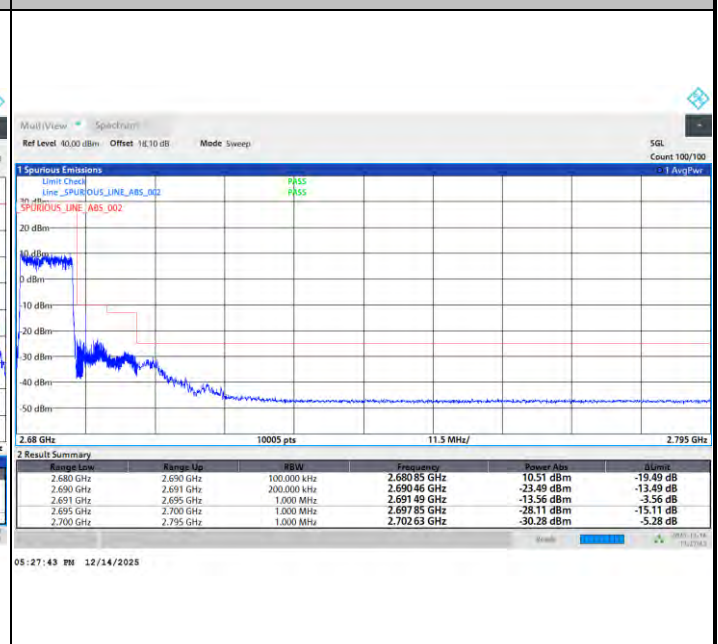
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

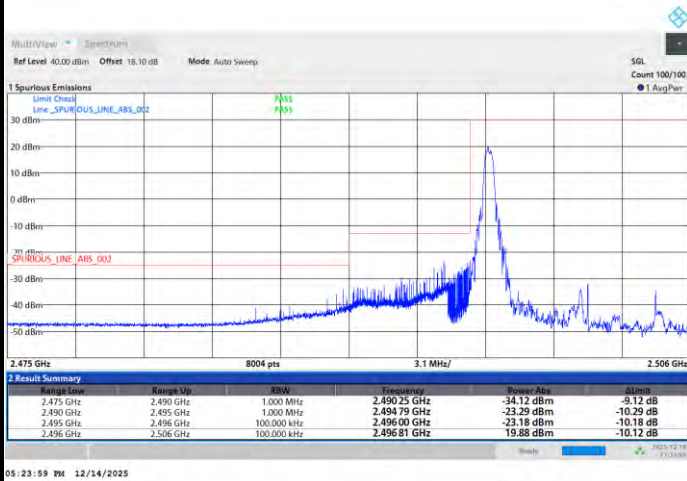
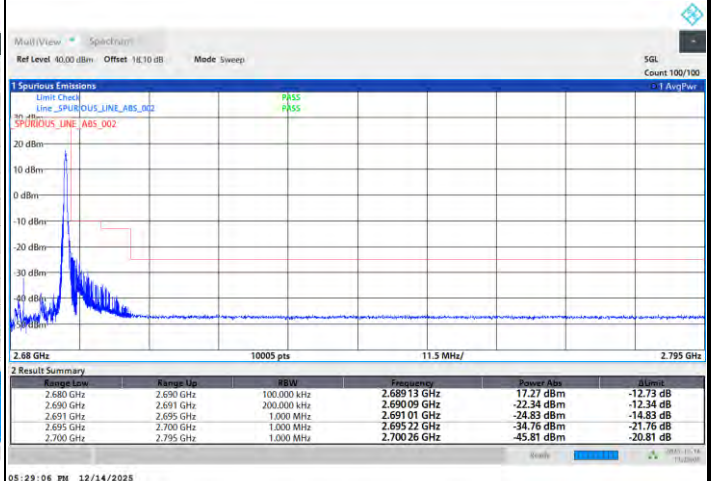




## FR1 n41 / 10MHz / DFT-S OFDM / QPSK

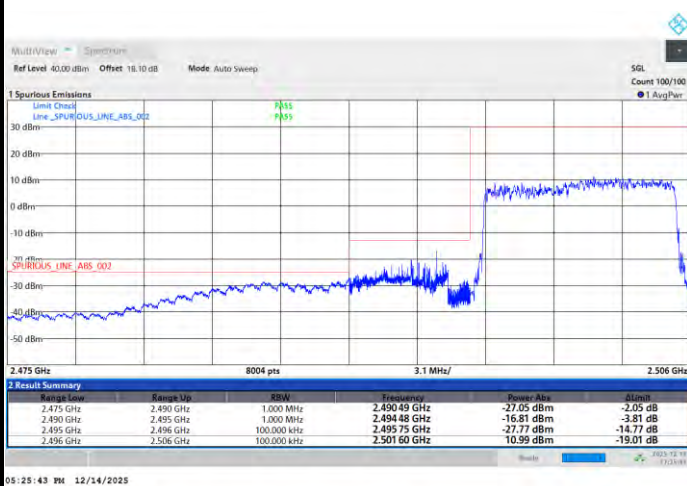
## Lowest Band Edge / 1RB0

## Highest Band Edge / 1RBmax



## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB





## FR1 n41 / 15MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

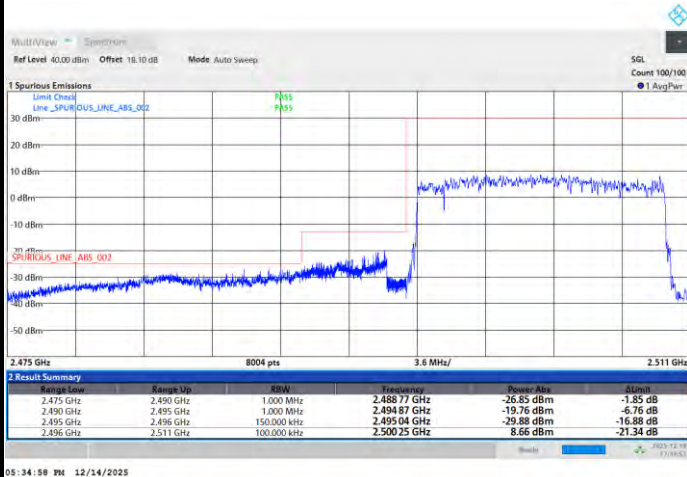
## Highest Band Edge / Full RB



## FR1 n41 / 15MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB





## FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

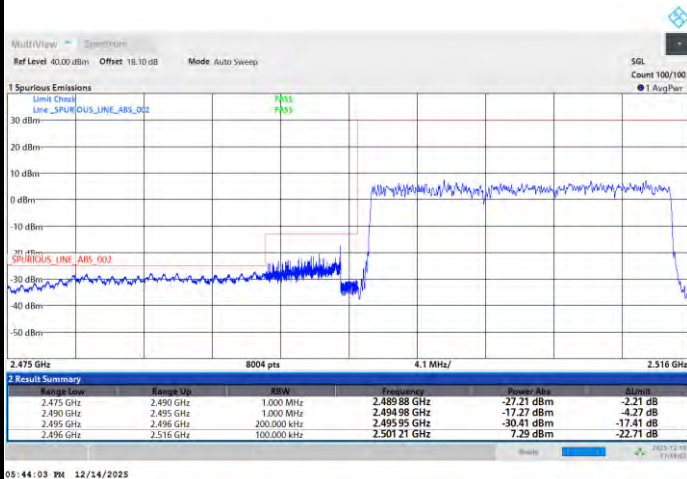
## Highest Band Edge / Full RB



## FR1 n41 / 20MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

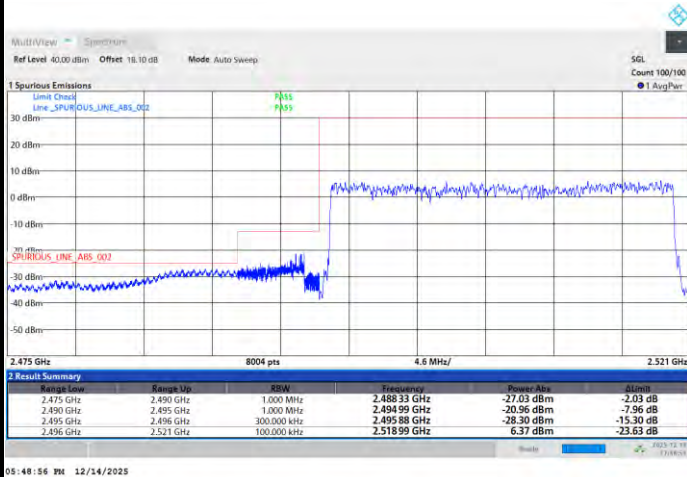




## FR1 n41 / 25MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

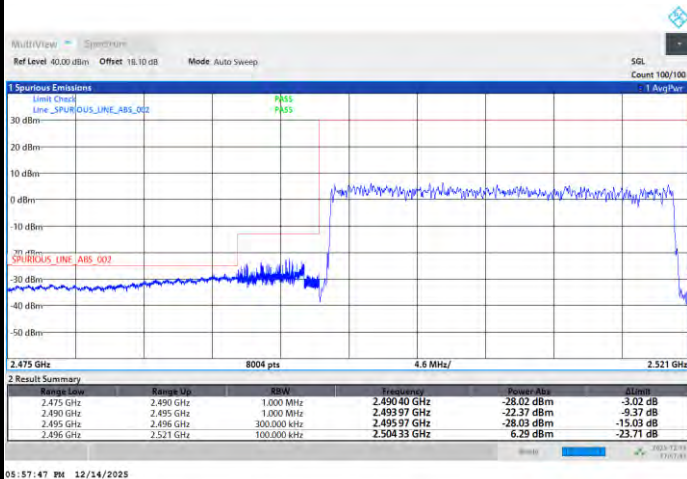
## Highest Band Edge / Full RB



## FR1 n41 / 25MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

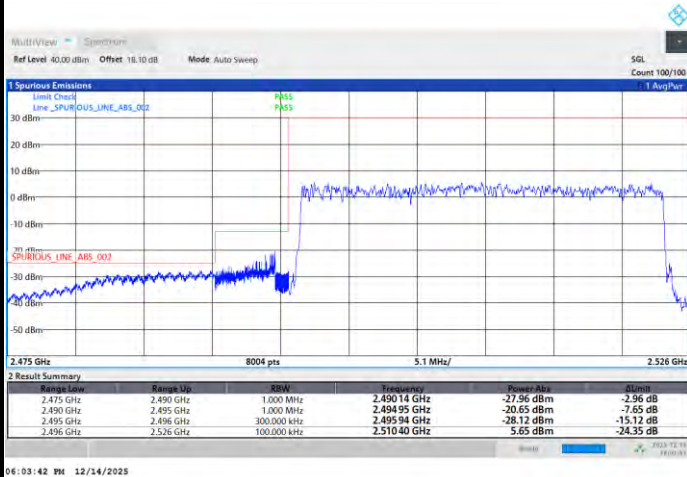




## FR1 n41 / 30MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

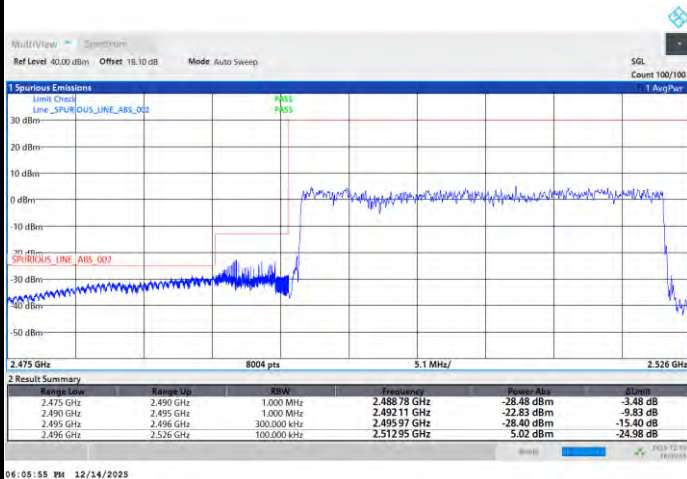
## Highest Band Edge / Full RB



## FR1 n41 / 30MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

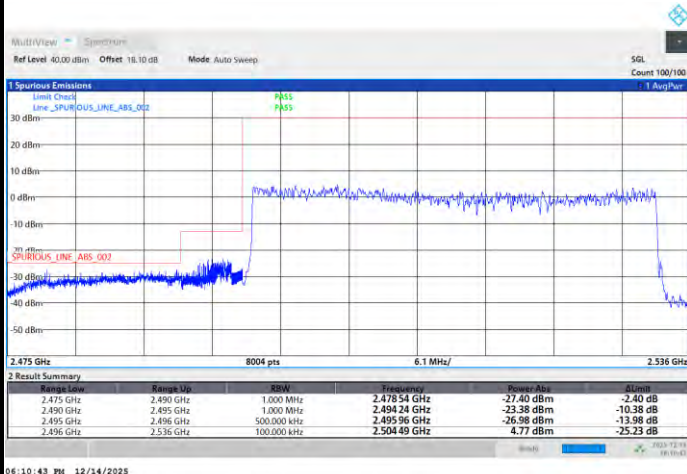




## FR1 n41 / 40MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

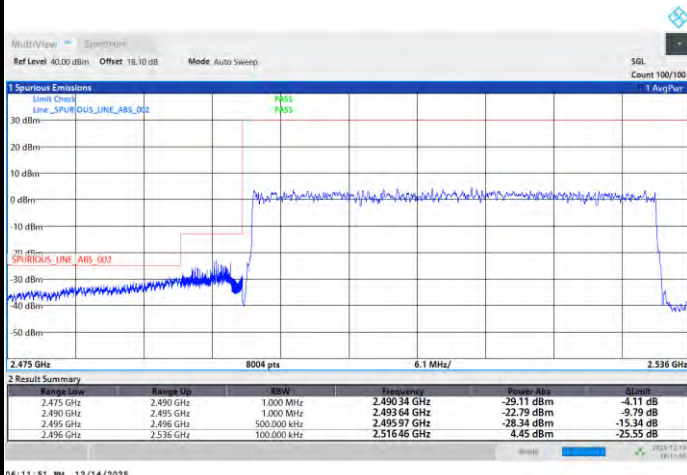
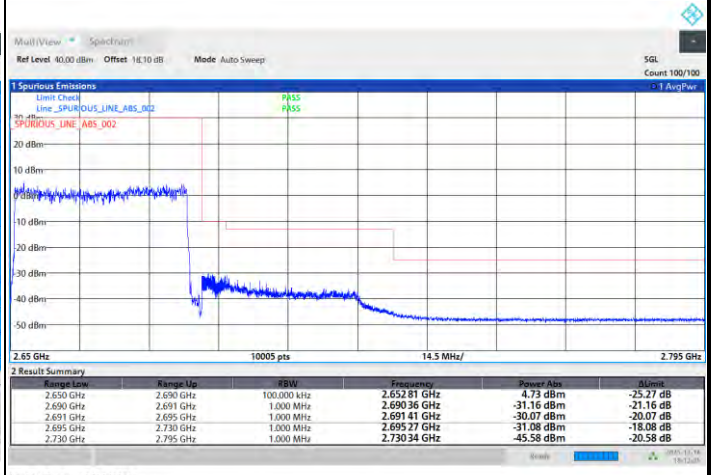
## Highest Band Edge / Full RB



## FR1 n41 / 40MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

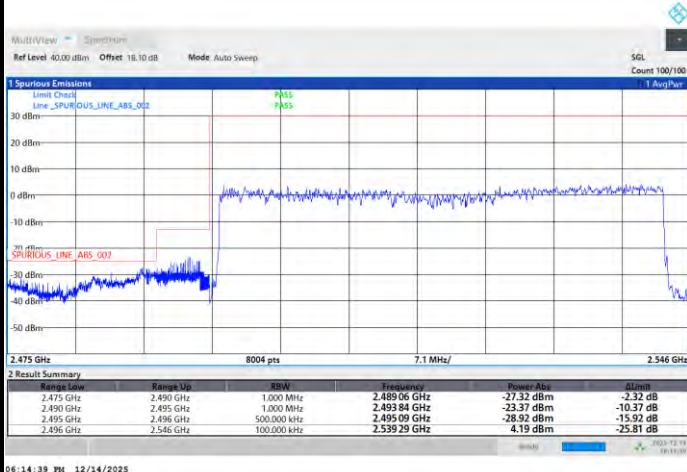
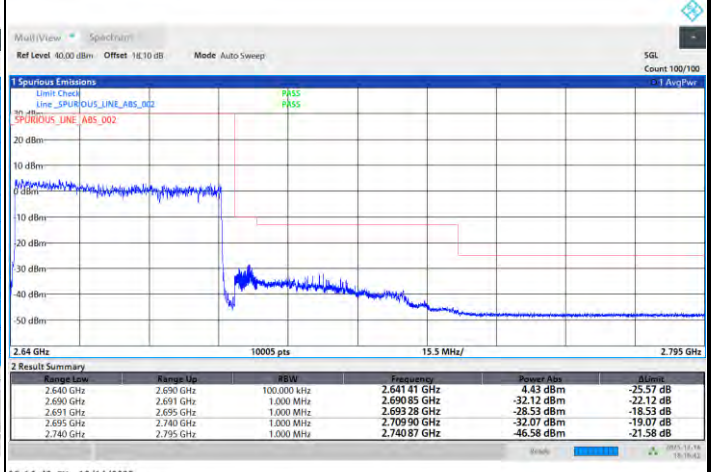




## FR1 n41 / 50MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

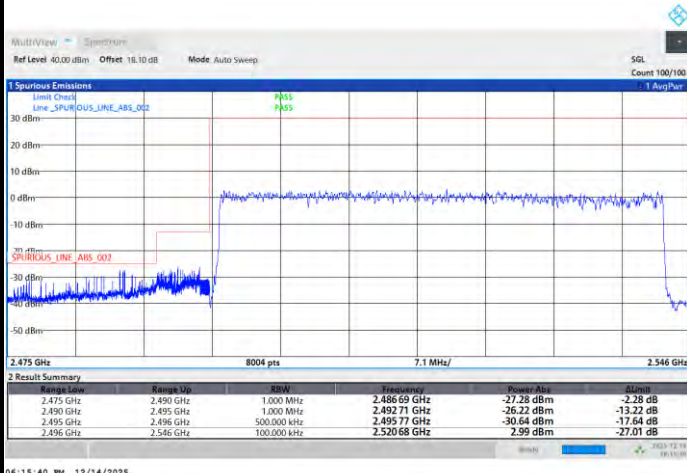
## Highest Band Edge / Full RB



## FR1 n41 / 50MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

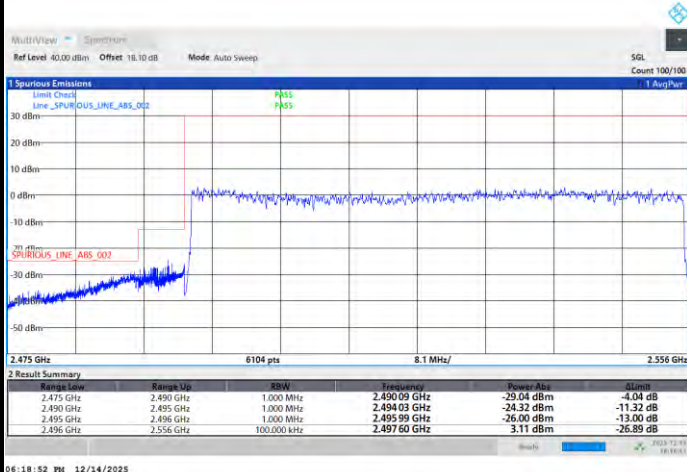
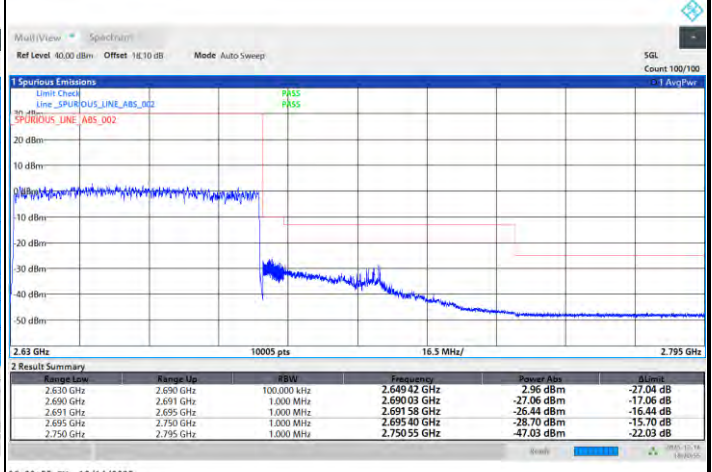




## FR1 n41 / 60MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

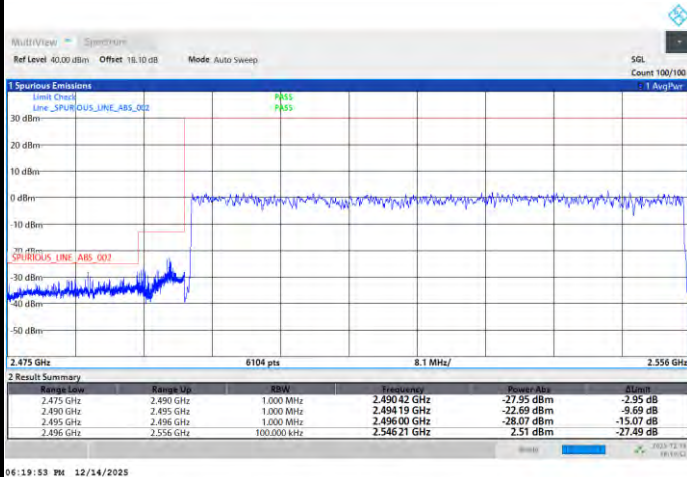
## Highest Band Edge / Full RB



## FR1 n41 / 60MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

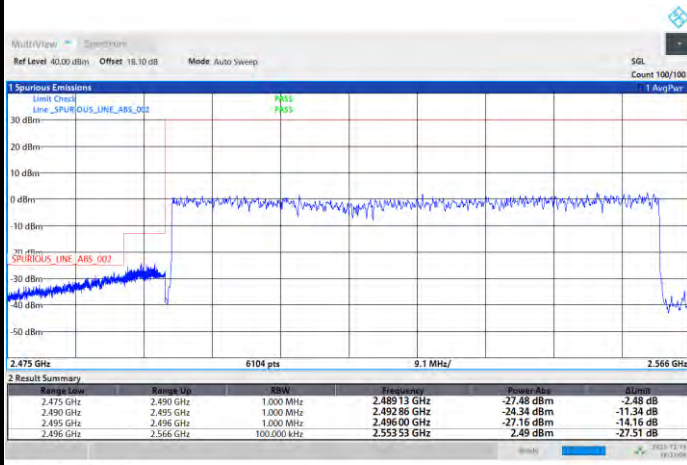
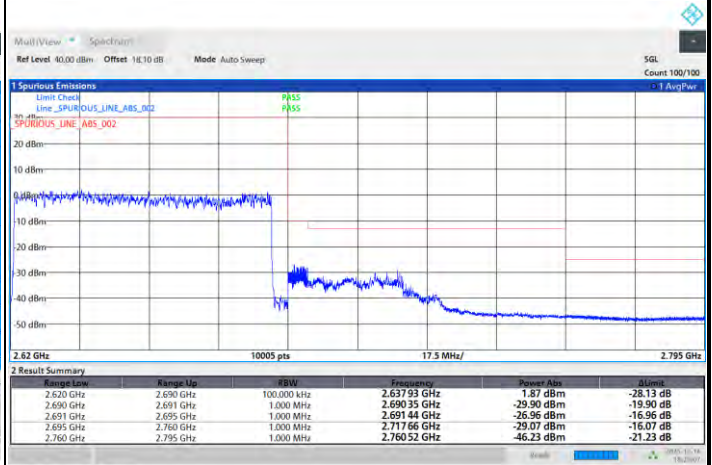




## FR1 n41 / 70MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

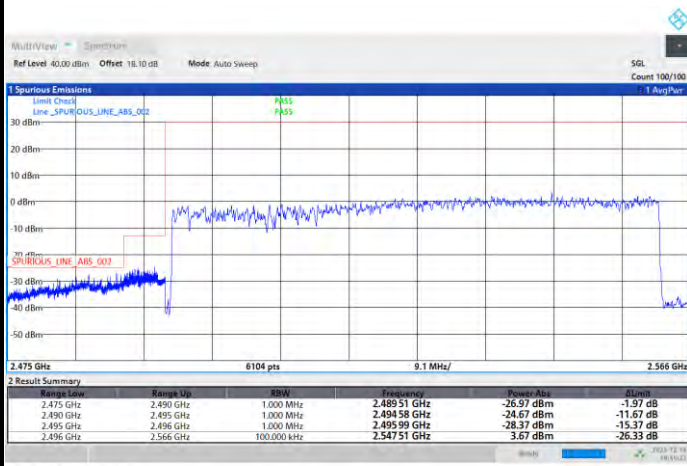
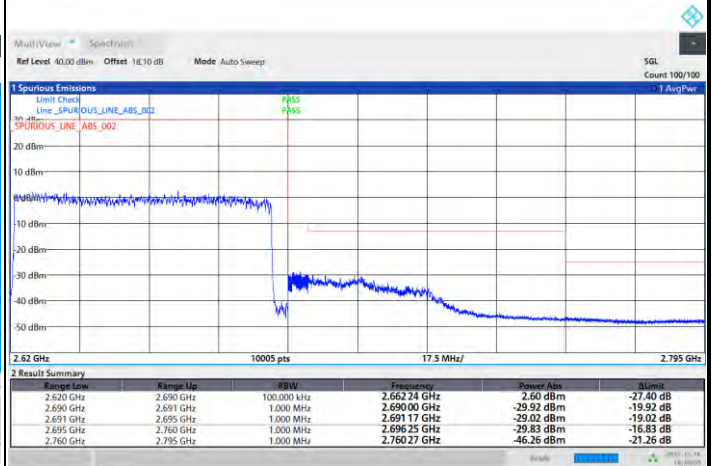
## Highest Band Edge / Full RB



## FR1 n41 / 70MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

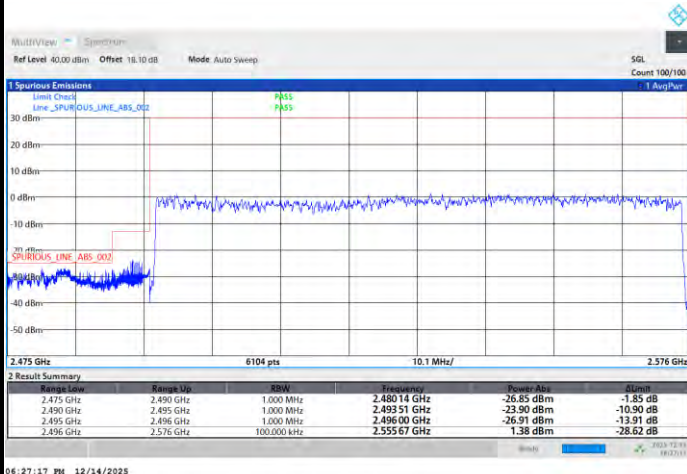




## FR1 n41 / 80MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

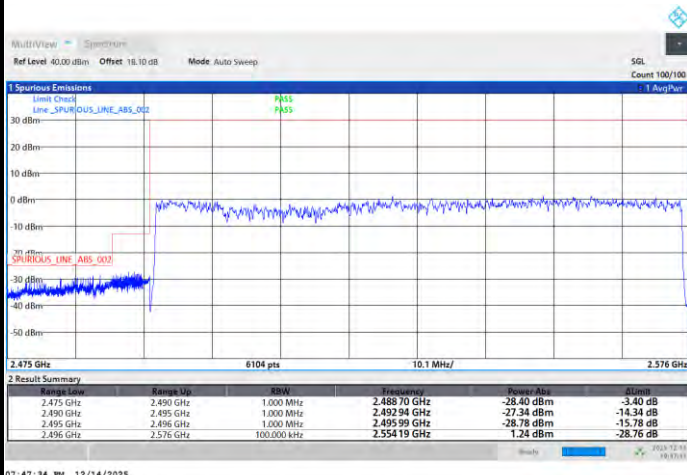
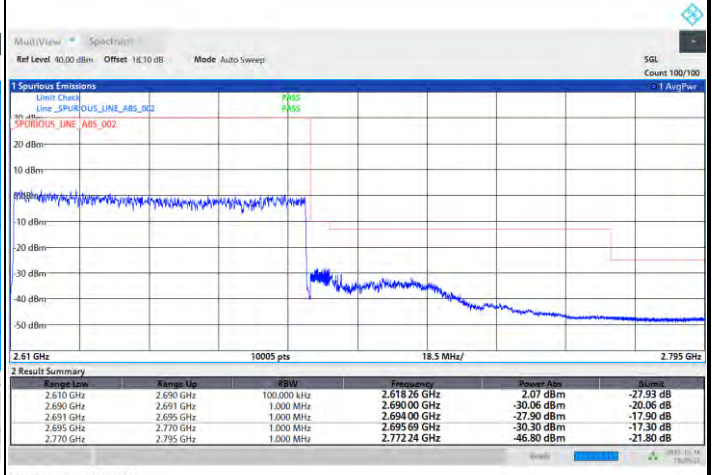
## Highest Band Edge / Full RB



## FR1 n41 / 80MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

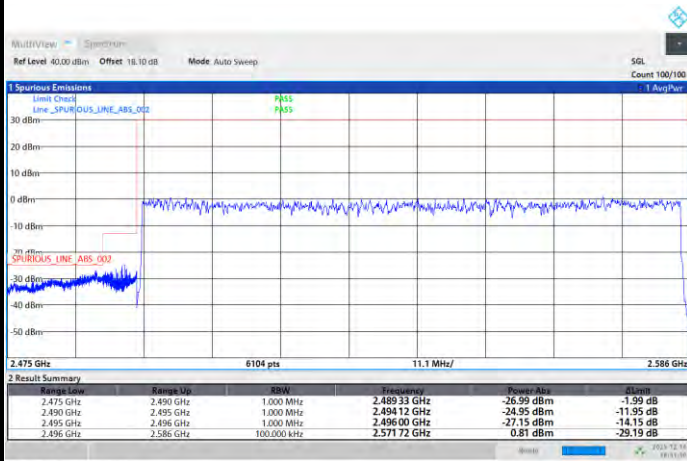
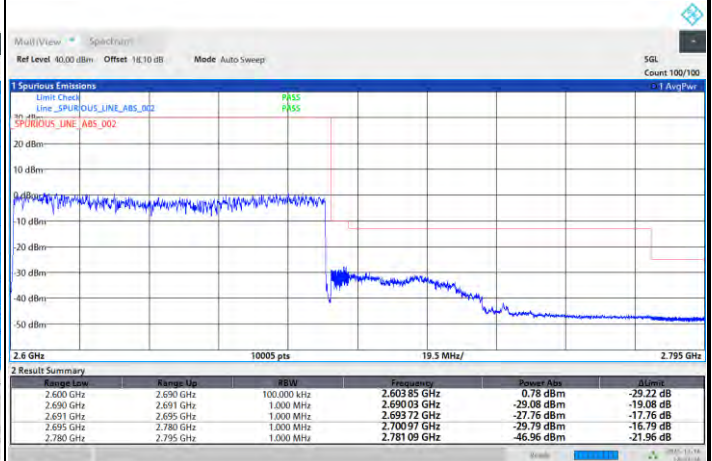




## FR1 n41 / 90MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB

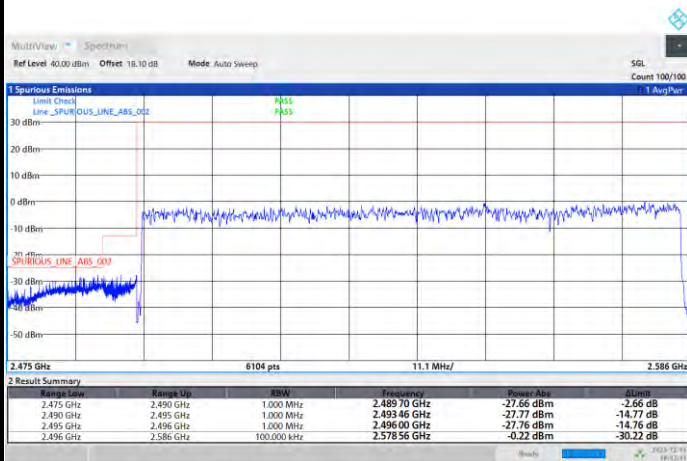
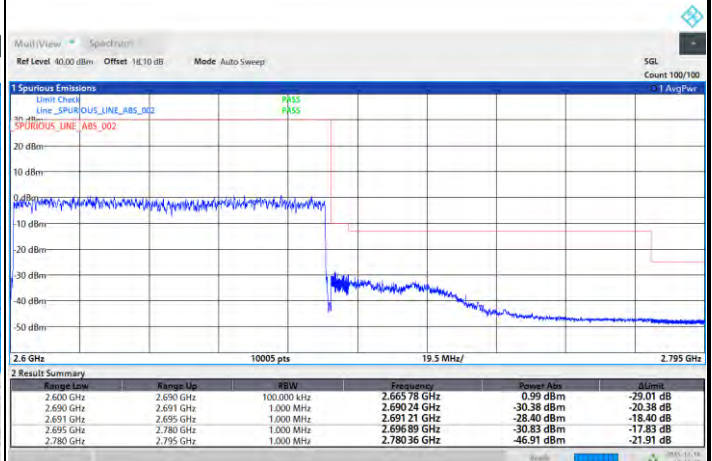
## Highest Band Edge / Full RB



## FR1 n41 / 90MHz / DFT-S OFDM / QPSK

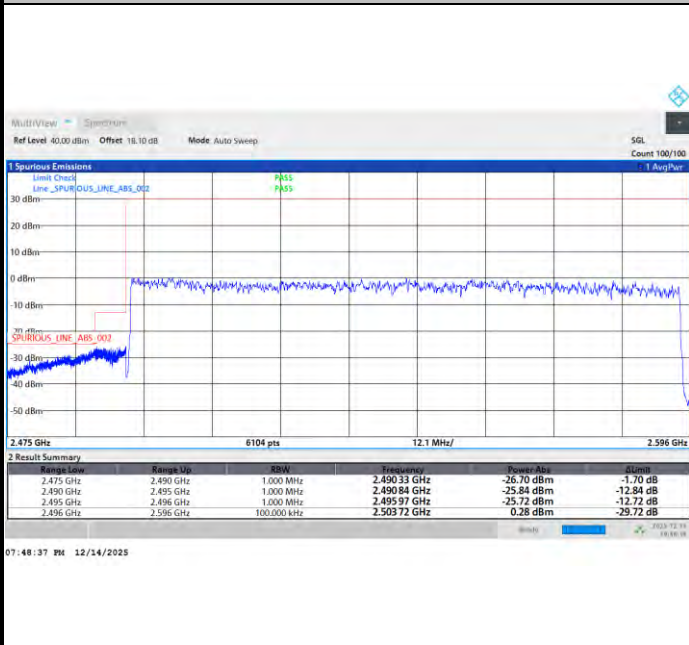
## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

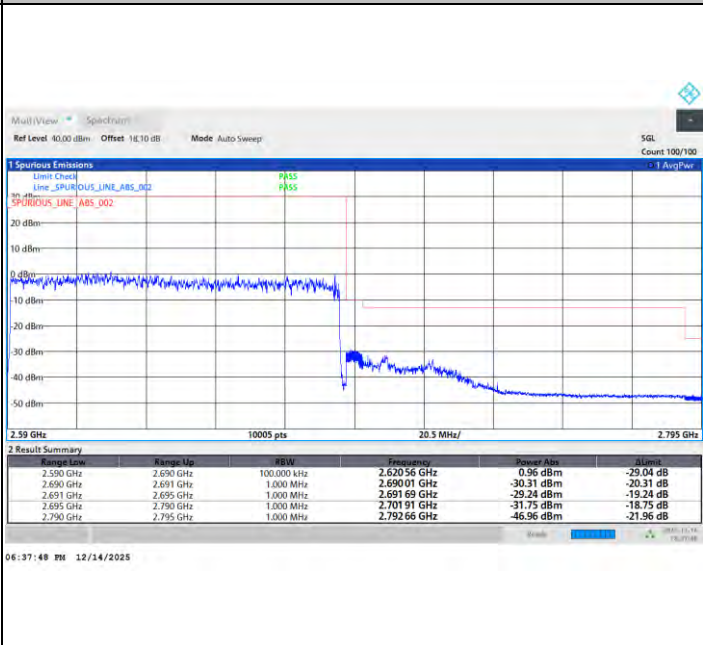


**FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK**

### Lowest Band Edge / Full RB

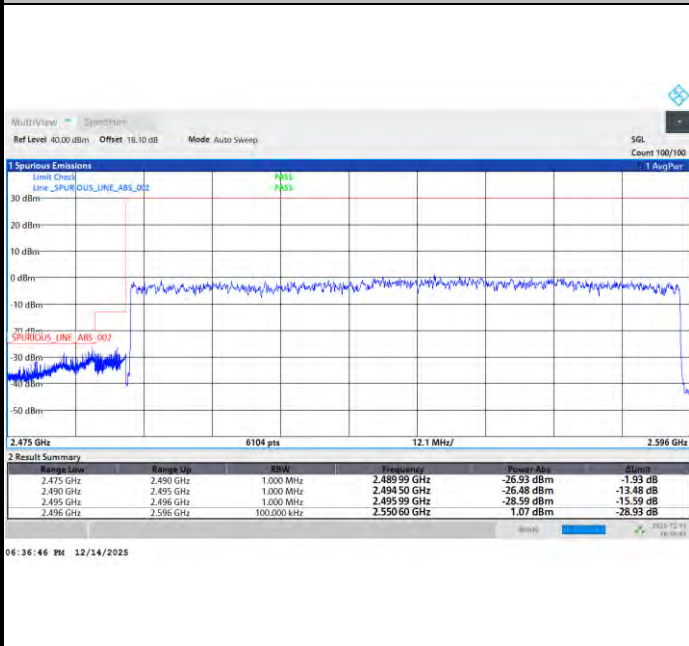


### Highest Band Edge / Full RB



## FR1 n41 / 100MHz / DFT-S OFDM / QPSK

### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB



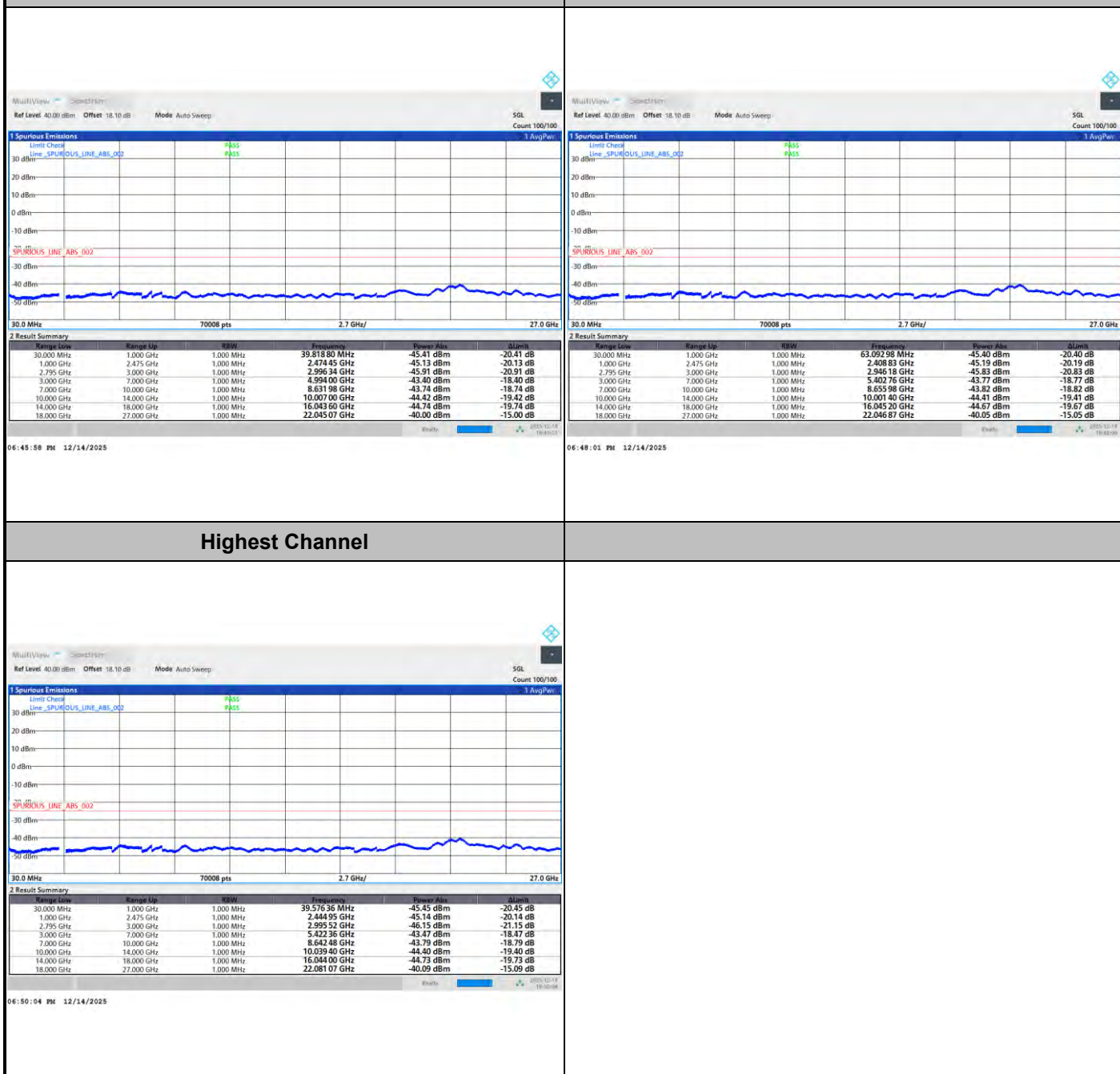


# Conducted Spurious Emission

FR1 n41 / 10MHz / DFT-S OFDM / QPSK / 1RB1

## Lowest Channel

## Middle Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n41 (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    | 0.0007                              | 1.8                                     | Yes                                         | PASS   |
| 40                  | Normal Voltage    | 0.0002                              | -0.6                                    | Yes                                         |        |
| 30                  | Normal Voltage    | 0.0009                              | -2.4                                    | Yes                                         |        |
| 20(Ref.)            | Normal Voltage    | 0.0000                              | 0                                       | Yes                                         |        |
| 10                  | Normal Voltage    | 0.0004                              | -1.1                                    | Yes                                         |        |
| 0                   | Normal Voltage    | 0.0017                              | -4.5                                    | Yes                                         |        |
| -10                 | Normal Voltage    | 0.0022                              | -5.8                                    | Yes                                         |        |
| -20                 | Normal Voltage    | 0.0012                              | -3.2                                    | Yes                                         |        |
| -30                 | Normal Voltage    | 0.0040                              | -10.3                                   | Yes                                         |        |
| 20                  | Maximum Voltage   | 0.0037                              | -9.6                                    | Yes                                         |        |
| 20                  | Normal Voltage    | 0.0054                              | -14                                     | Yes                                         |        |
| 20                  | Minimum Voltage   | 0.0046                              | -11.8                                   | Yes                                         |        |

**Note:**

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 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.

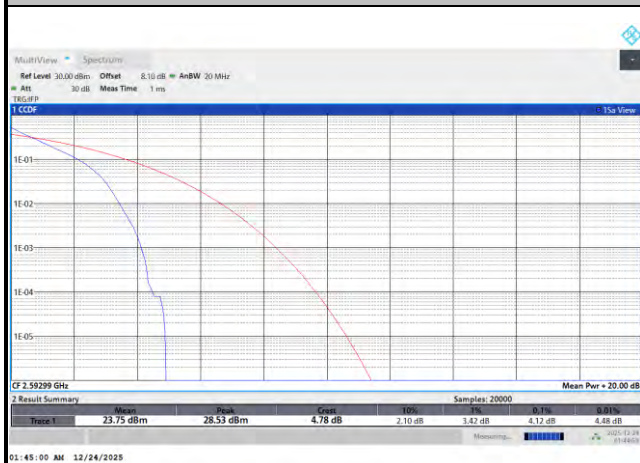
**FR1 n41****<TxD Mode>****MIMO <Ant. 2+1> (Ant. 1)****Peak-to-Average Ratio**

| Mode      | FR1 n41 / 20MHz / 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 | 4.12                         | 5.10    | 6.00    | 6.26    | <b>PASS</b> |
| Mode      | FR1 n41 / 20MHz / DFT-S OFDM |         |         |         |             |
| Mod.      | 256QAM                       |         |         |         | Limit: 13dB |
| RB Size   | Full RB                      |         |         |         | Result      |
| Middle CH | 6.72                         |         |         |         | <b>PASS</b> |

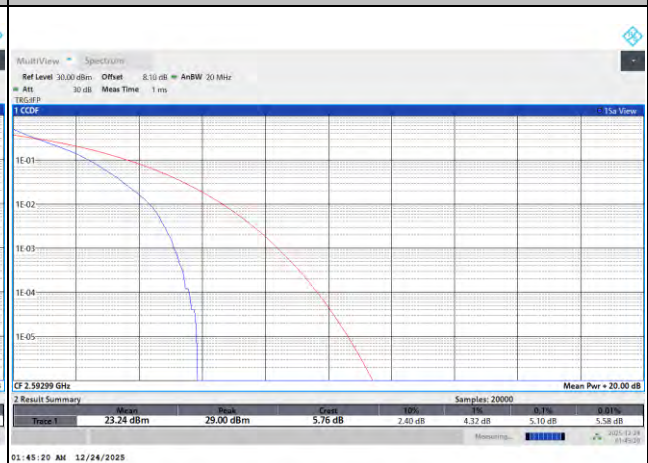


## FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

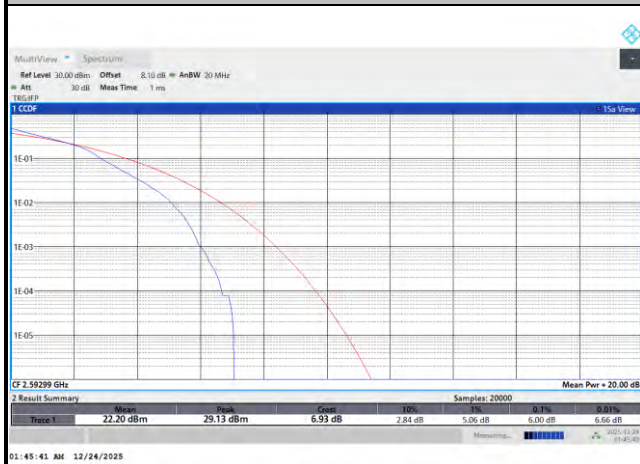
## PI/2 BPSK



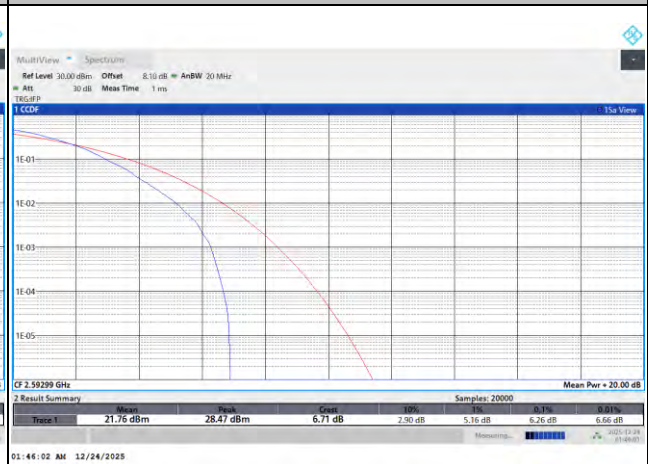
## QPSK



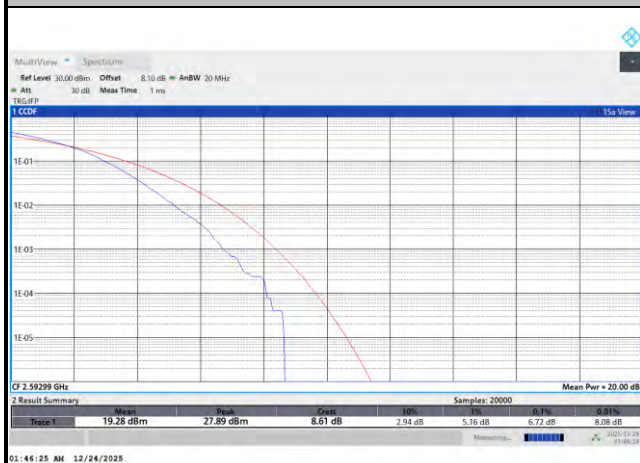
## 16QAM



## 64QAM



## 256QAM



| Mode      | FR1 n41 / 10MHz / DFT-S OFDM |         |             |
|-----------|------------------------------|---------|-------------|
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.08                         | 5.90    | PASS        |
| Mode      | FR1 n41 / 15MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 4.88                         | 5.92    | PASS        |
| Mode      | FR1 n41 / 25MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.12                         | 5.72    | PASS        |
| Mode      | FR1 n41 / 30MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.14                         | 6.02    | PASS        |
| Mode      | FR1 n41 / 40MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.10                         | 5.94    | PASS        |
| Mode      | FR1 n41 / 50MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.36                         | 6.02    | PASS        |
| Mode      | FR1 n41 / 60MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.38                         | 5.96    | PASS        |
| Mode      | FR1 n41 / 70MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.36                         | 6.10    | PASS        |
| Mode      | FR1 n41 / 80MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                         | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                      | Full RB | Result      |
| Middle CH | 5.40                         | 6.16    | PASS        |



| Mode      | FR1 n41 / 90MHz / DFT-S OFDM  |         |             |
|-----------|-------------------------------|---------|-------------|
| Mod.      | QPSK                          | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                       | Full RB | Result      |
| Middle CH | 5.42                          | 6.24    | PASS        |
| Mode      | FR1 n41 / 100MHz / DFT-S OFDM |         |             |
| Mod.      | QPSK                          | 16QAM   | Limit: 13dB |
| RB Size   | Full RB                       | Full RB | Result      |
| Middle CH | 5.38                          | 6.02    | PASS        |



## FR1 n41 / 10MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK

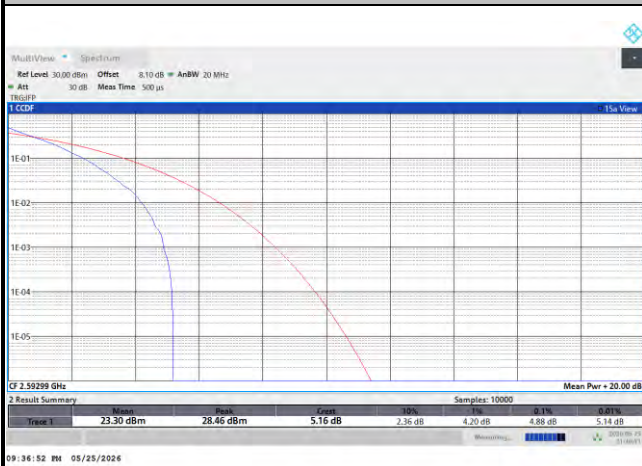


## 16QAM

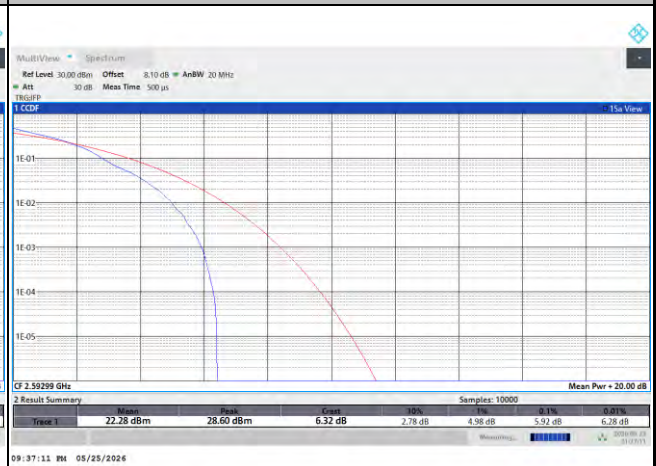


## FR1 n41 / 15MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 25MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



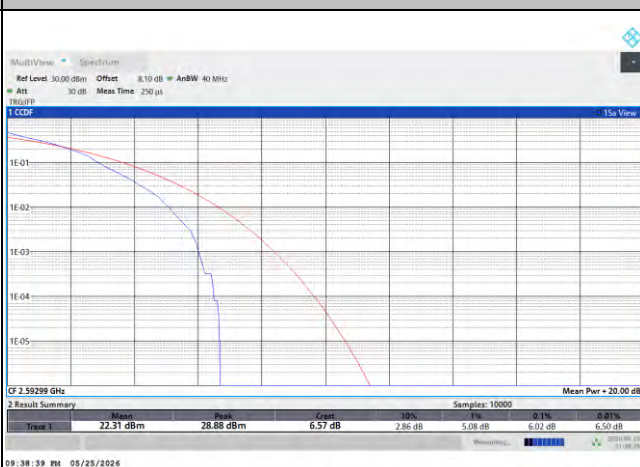


## FR1 n41 / 30MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK

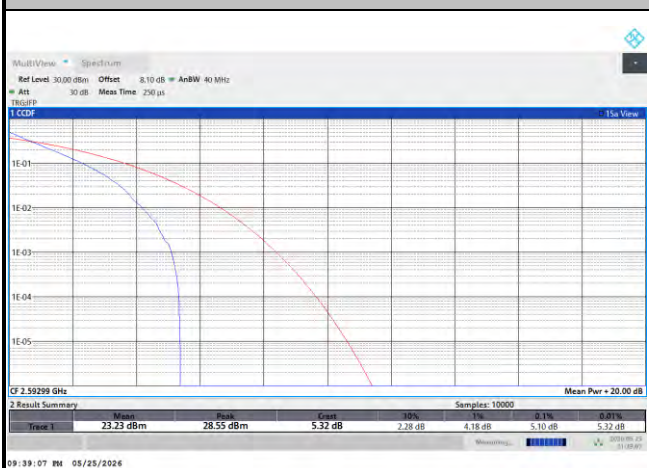


## 16QAM

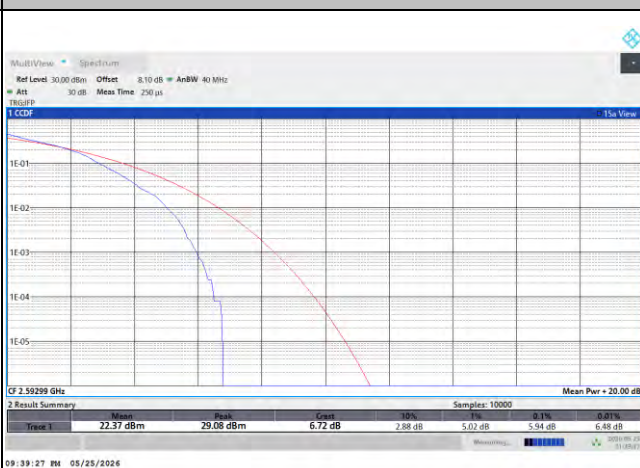


## FR1 n41 / 40MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 50MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM





## FR1 n41 / 60MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 70MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM

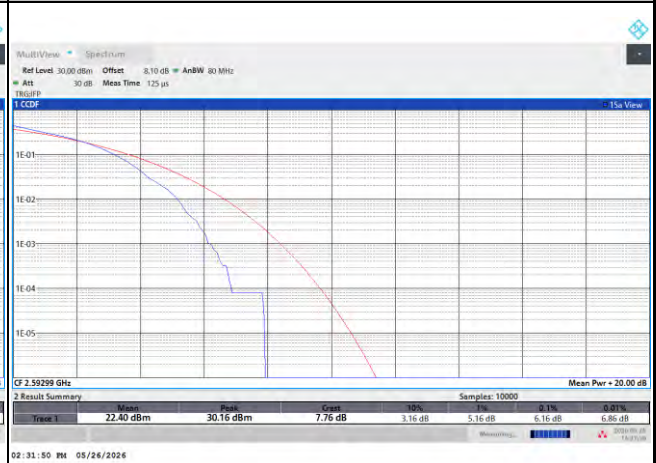


## FR1 n41 / 80MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



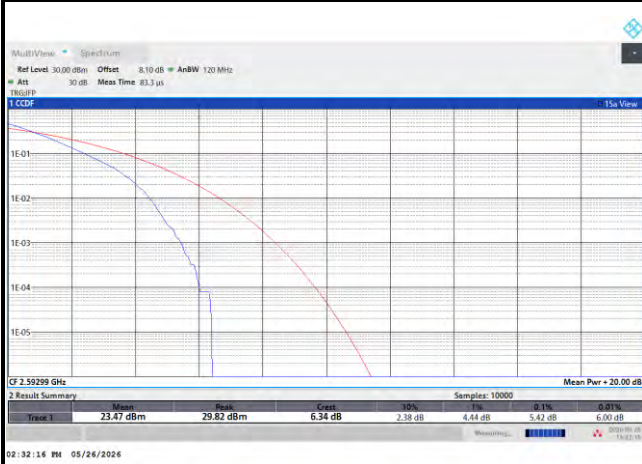
## 16QAM





## FR1 n41 / 90MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



## FR1 n41 / 100MHz / DFTs OFDM / Middle Channel / Full RB

## QPSK



## 16QAM



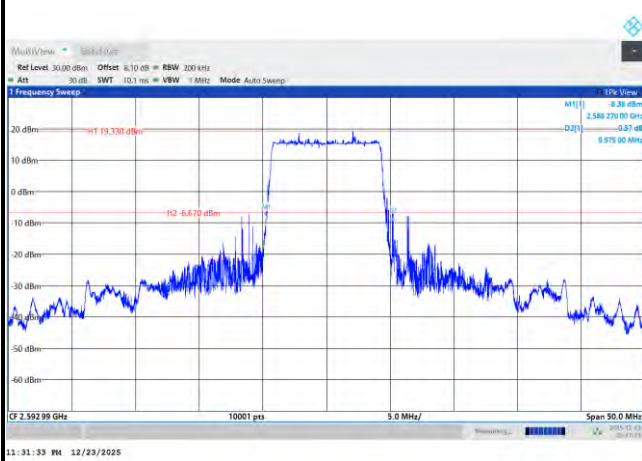
**26dB Bandwidth**

| Mode      | FR1 n41 : 26dB BW(MHz) / DFT-S OFDM |       |           |       |           |       |           |        |
|-----------|-------------------------------------|-------|-----------|-------|-----------|-------|-----------|--------|
| BW        | 10MHz                               |       | 15MHz     |       | 20MHz     |       | 25MHz     |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 9.97                                | 9.48  | 13.86     | 13.95 | 19.42     | 19.02 | 24.43     | 24.29  |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 10.26                               |       | 13.89     |       | 19.82     |       | 25.86     |        |
| BW        | 30MHz                               |       | 40MHz     |       | 50MHz     |       | 60MHz     |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 29.15                               | 29.40 | 38.23     | 38.35 | 48.19     | 48.42 | 62.38     | 62.77  |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 29.43                               |       | 38.48     |       | 48.26     |       | 62.79     |        |
| BW        | 70MHz                               |       | 80MHz     |       | 90MHz     |       | 100MHz    |        |
| Mod.      | PI/2 BPSK                           | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK  | PI/2 BPSK | QPSK   |
| Middle CH | 68.98                               | 69.20 | 82.93     | 82.25 | 91.85     | 92.08 | 101.49    | 101.61 |
| Mod.      | 16QAM                               |       | 16QAM     |       | 16QAM     |       | 16QAM     |        |
| Middle CH | 69.25                               |       | 82.17     |       | 92.06     |       | 101.66    |        |

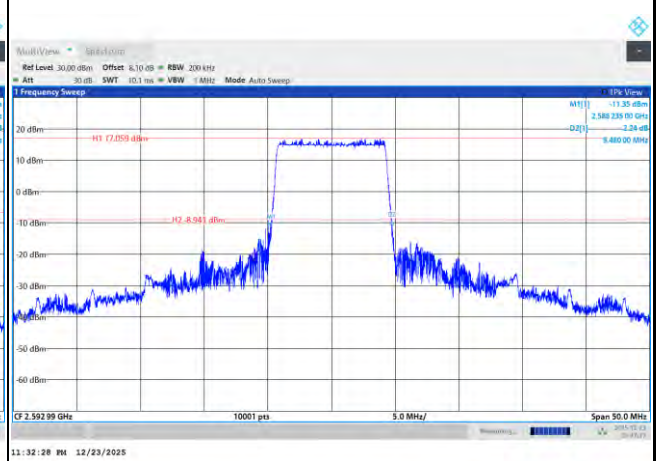


FR1 n41 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

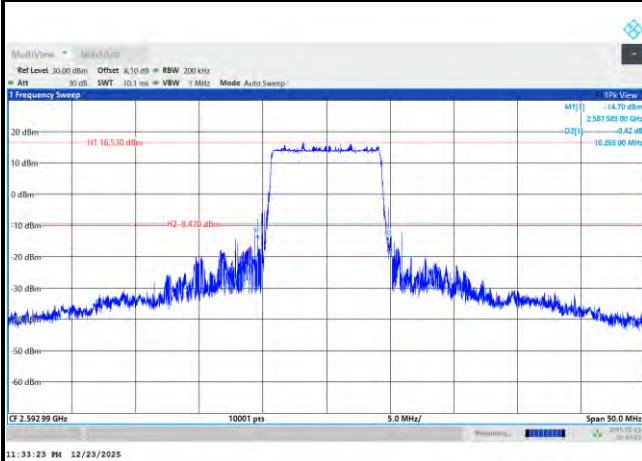
PI/2 BPSK



QPSK



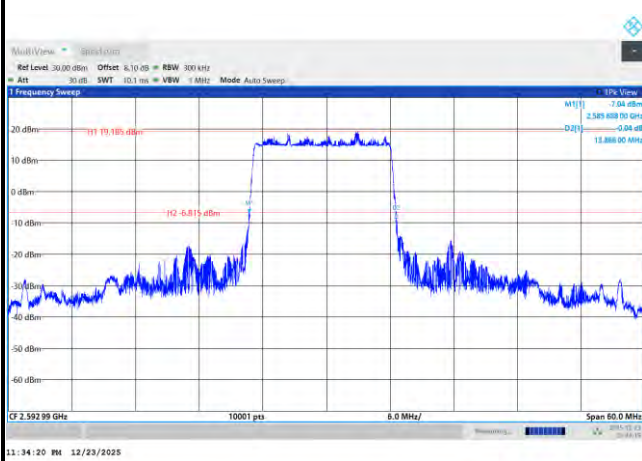
16QAM



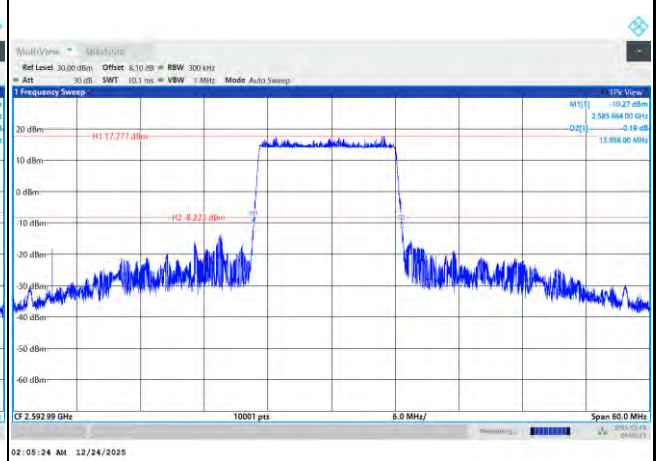


FR1 n41 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

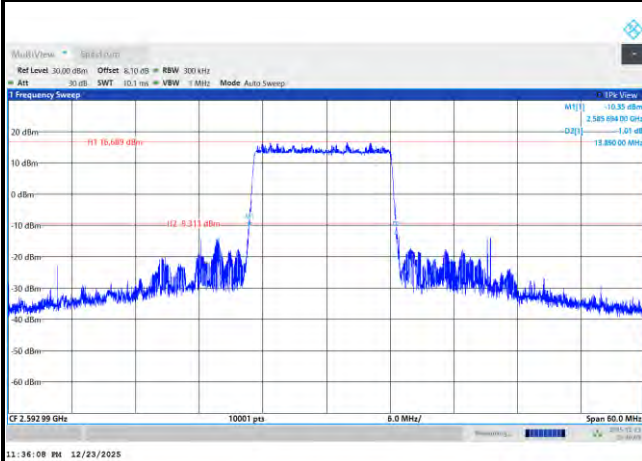
PI/2 BPSK



QPSK



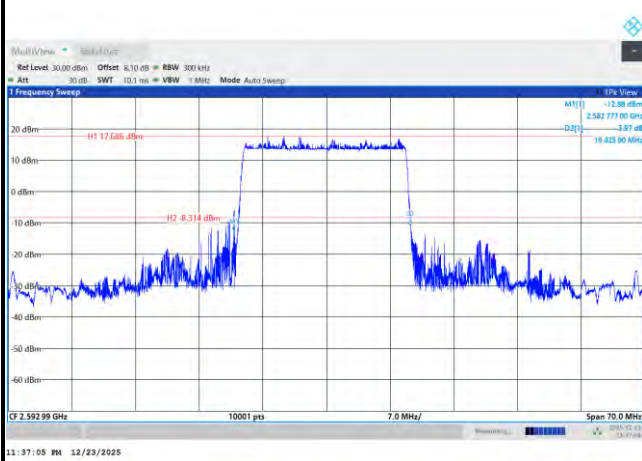
16QAM



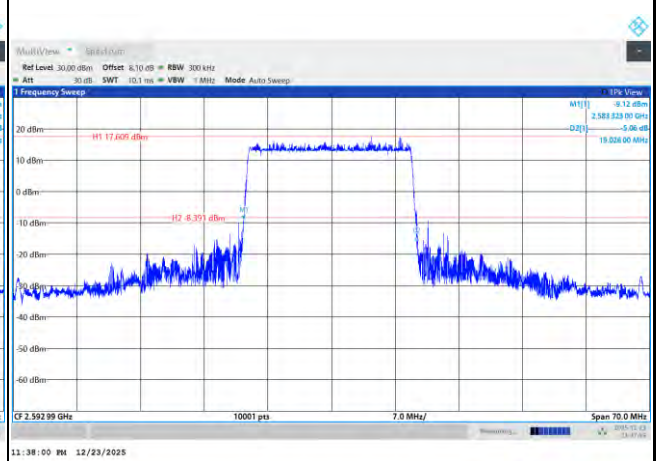


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

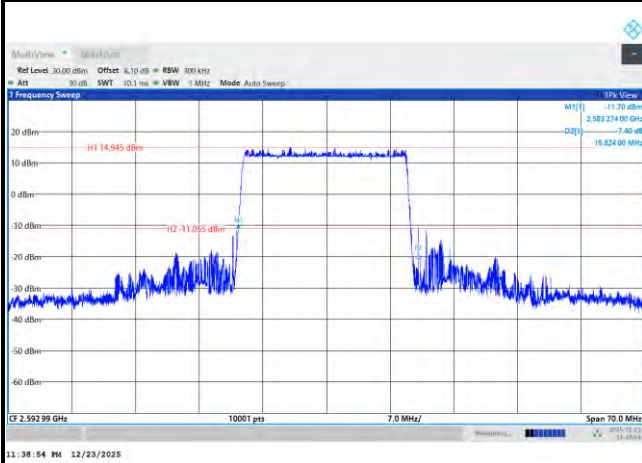
PI/2 BPSK



QPSK



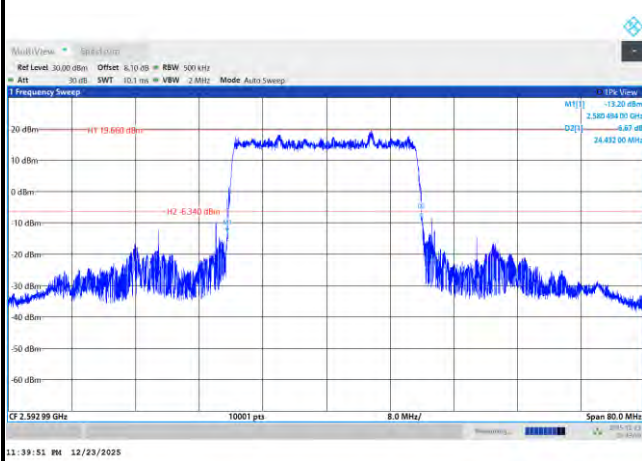
16QAM



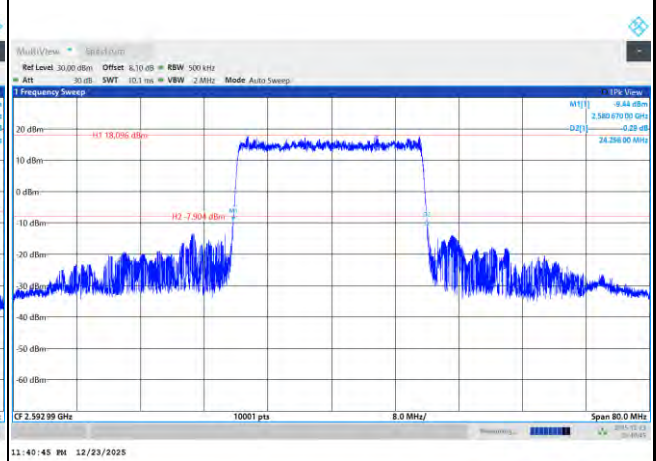


FR1 n41 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

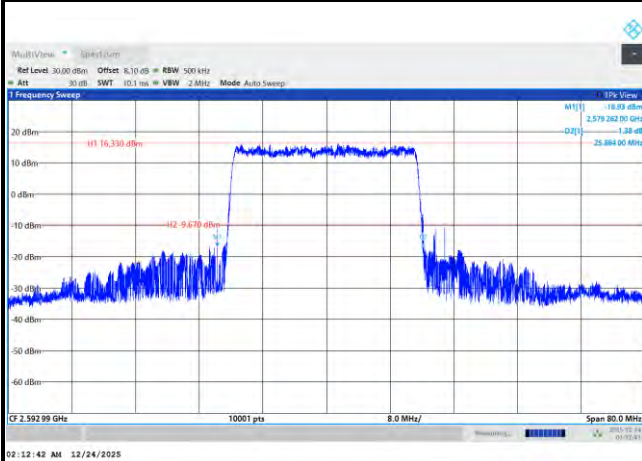
PI/2 BPSK



QPSK



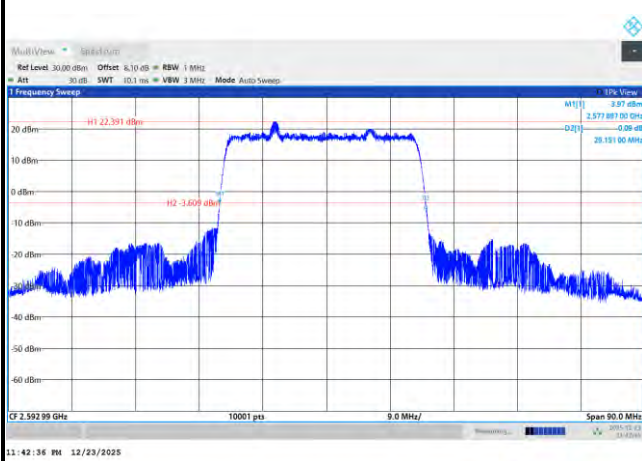
16QAM



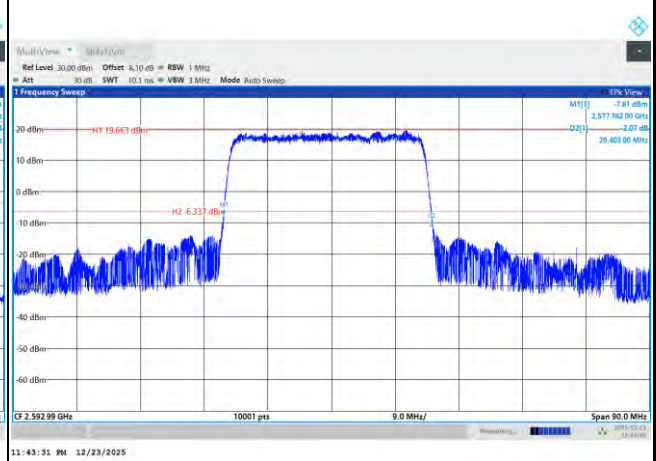


FR1 n41 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

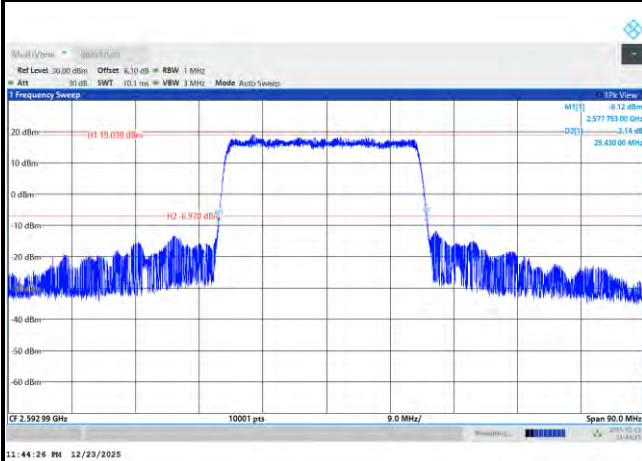
PI/2 BPSK



QPSK



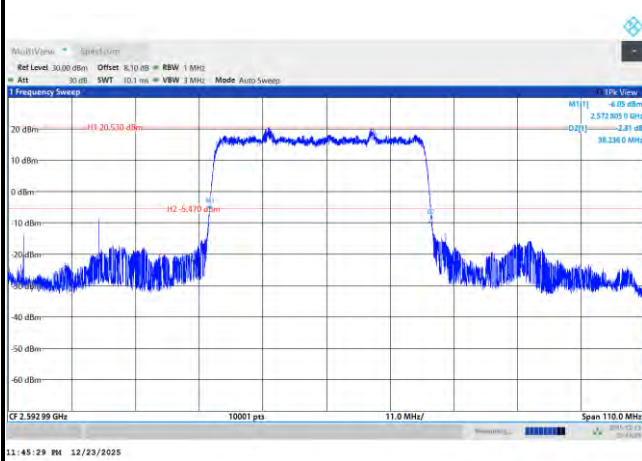
16QAM



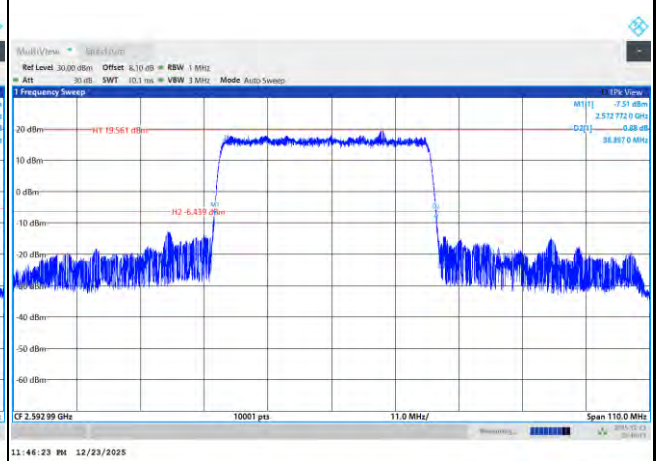


FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

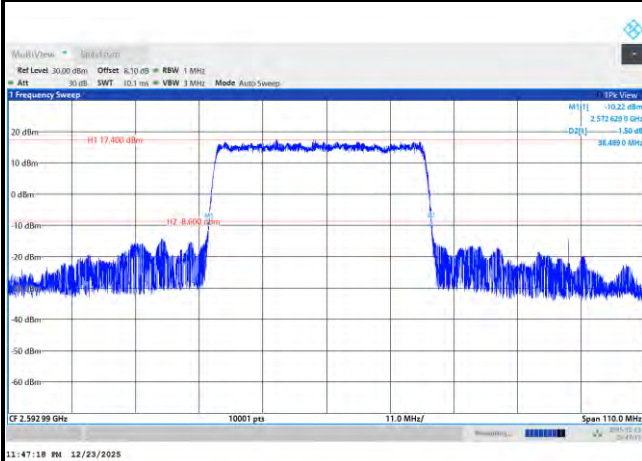
PI/2 BPSK



QPSK



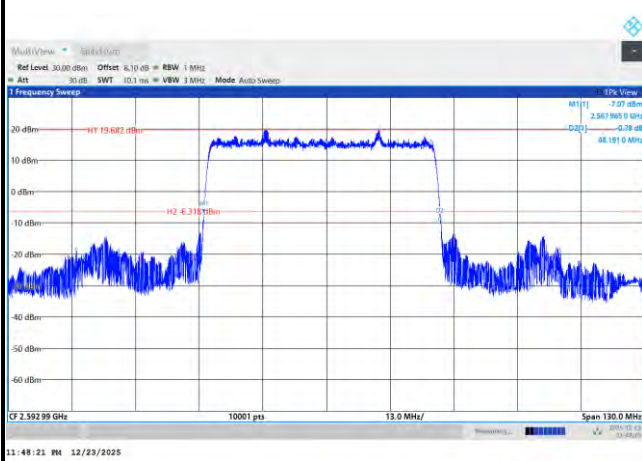
16QAM



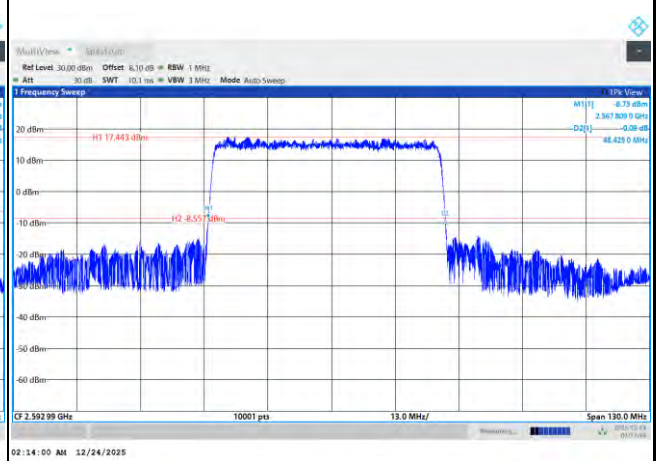


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

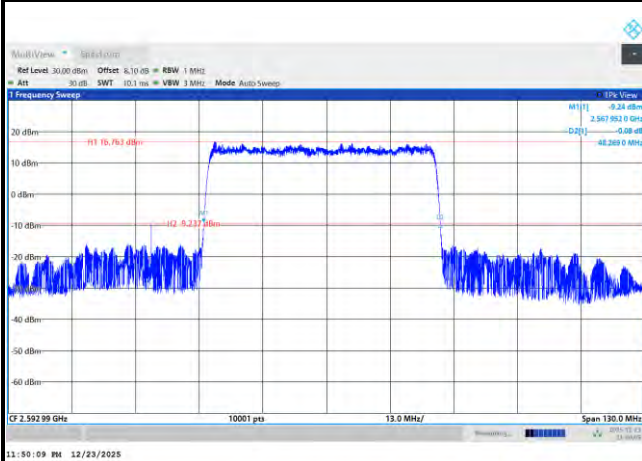
PI/2 BPSK



QPSK

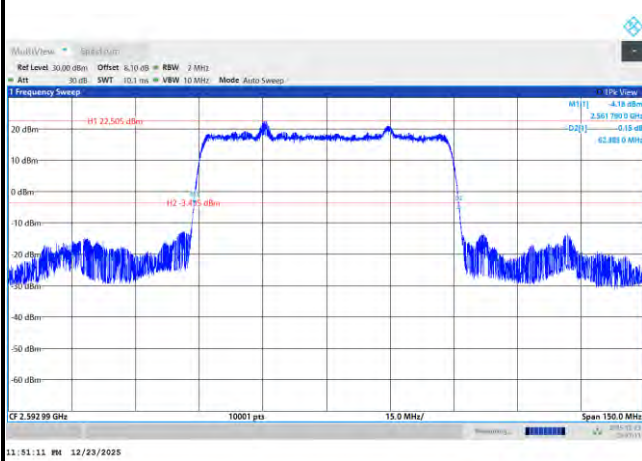


16QAM

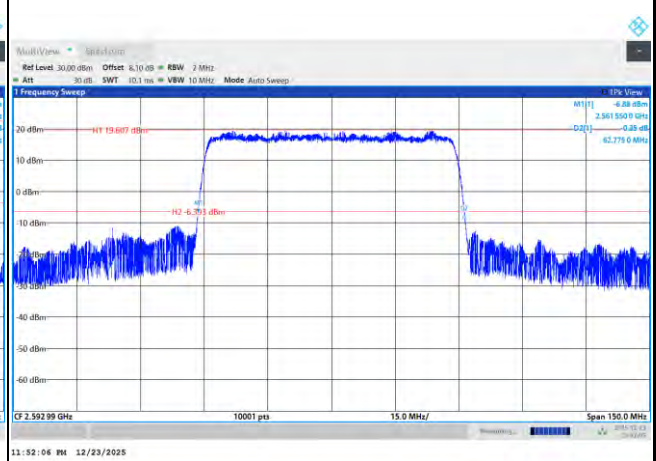




## FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

**PI/2 BPSK**

## QPSK



## 16QAM

