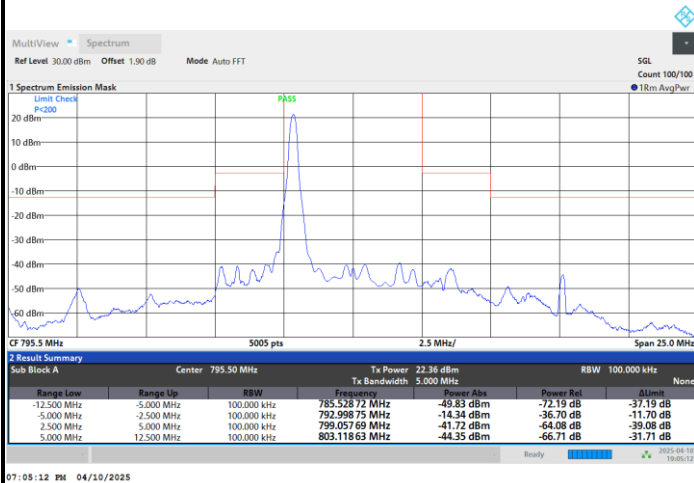




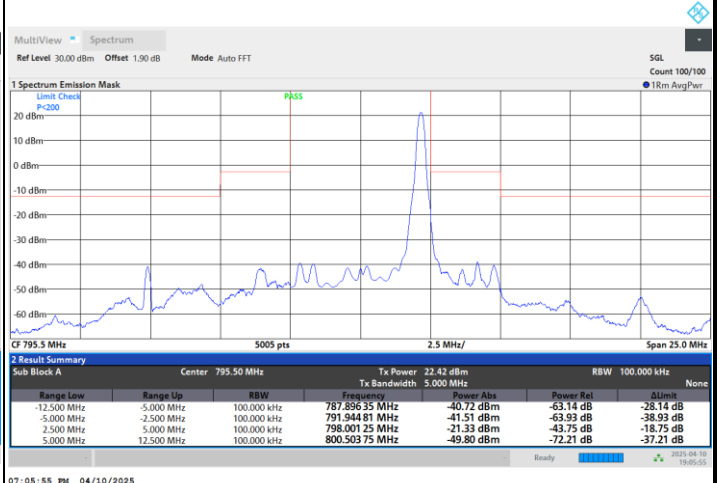
## FR1 n14 / 5MHz / DFT-S OFDM / QPSK

## Highest Channel

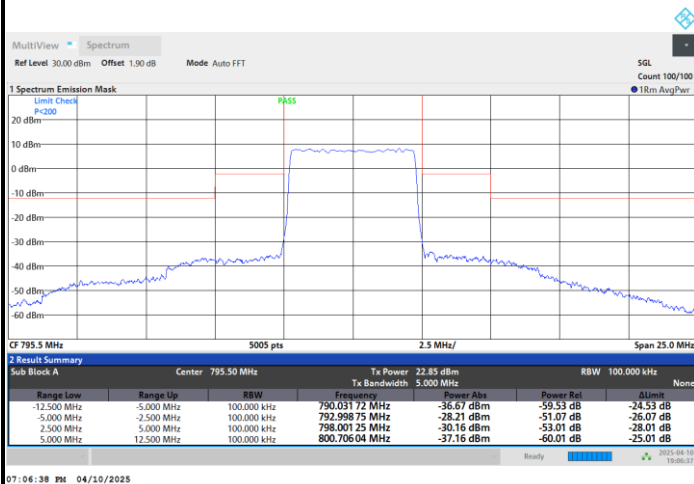
## 1RB0



## 1RBmax



## Full RB

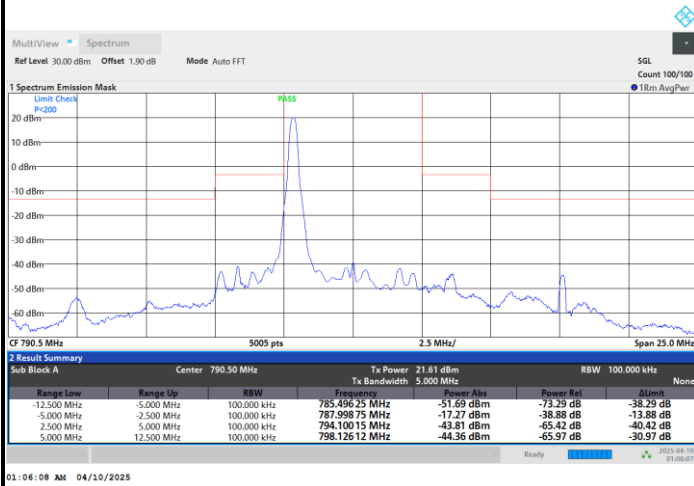




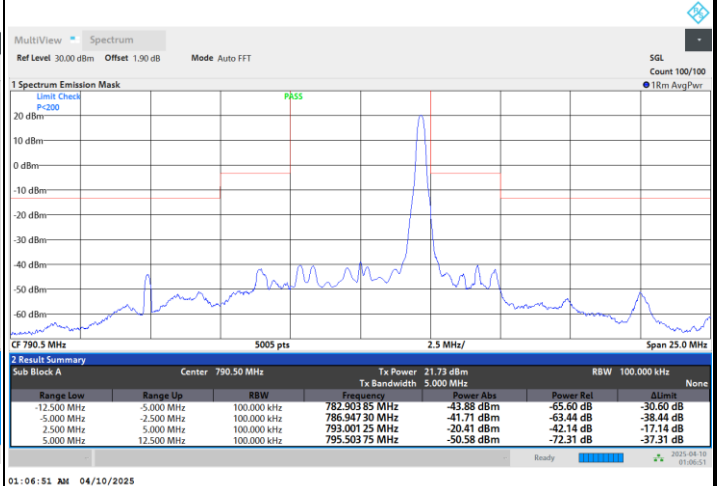
## FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

## Lowest Channel

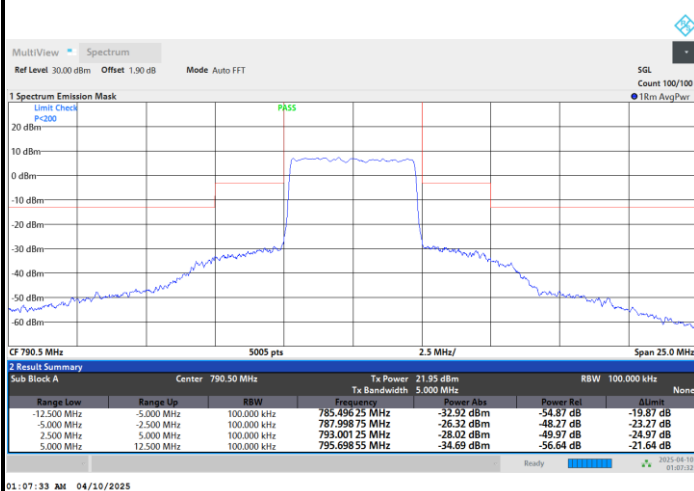
## 1RB0



## 1RBmax



## Full RB

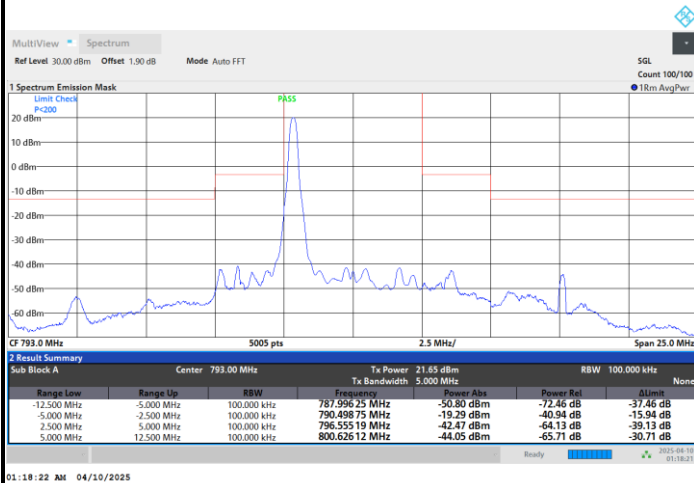




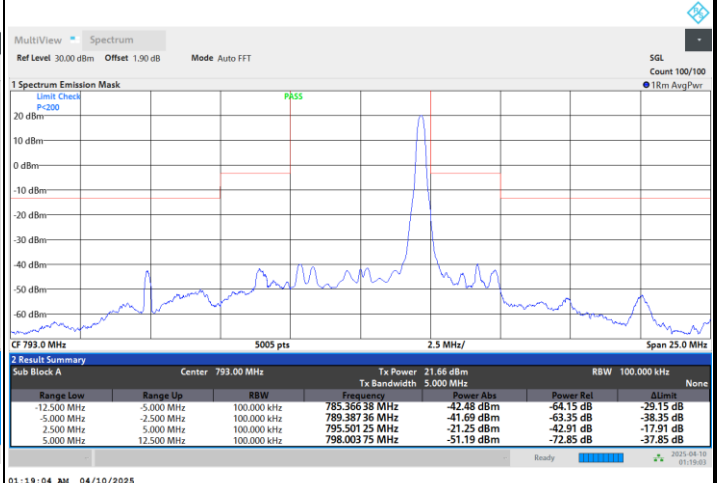
## FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

## Middle Channel

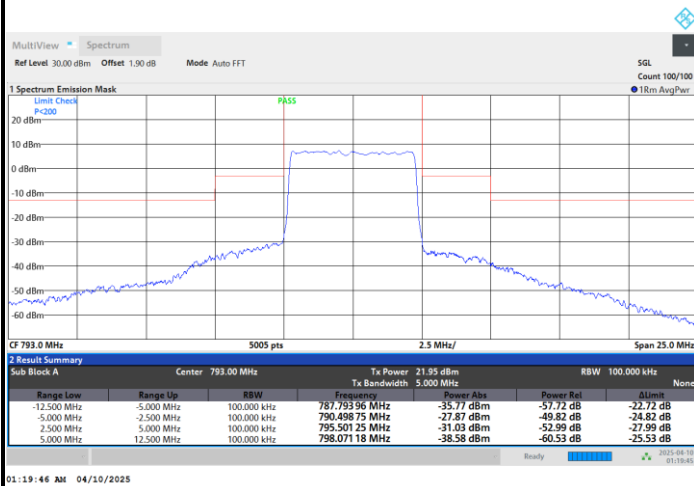
## 1RB0



## 1RBmax



## Full RB

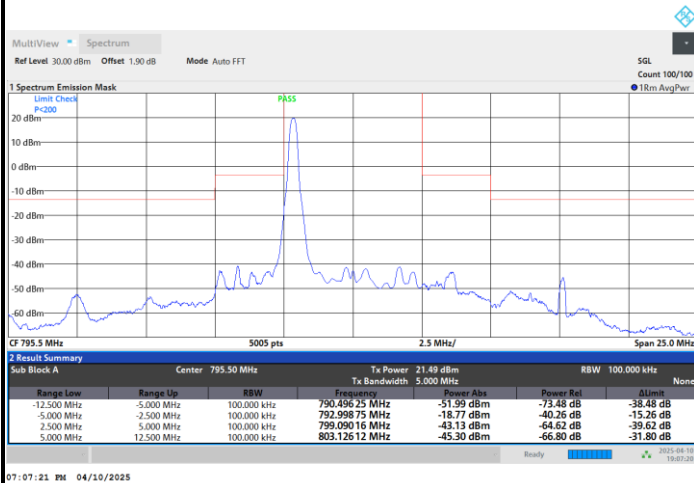




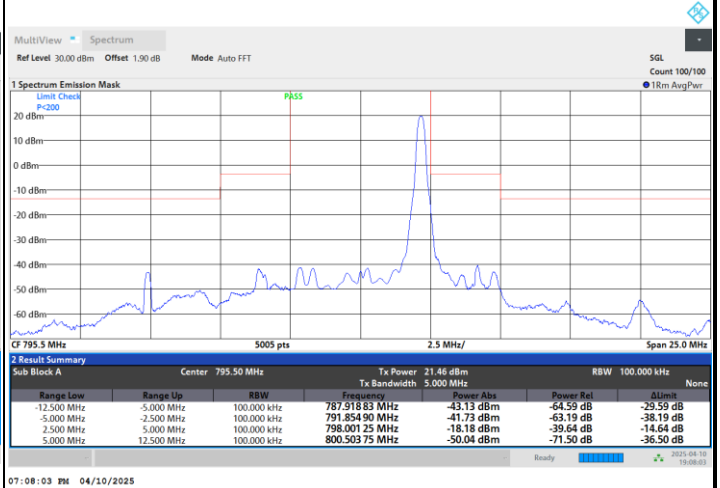
## FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

## Highest Channel

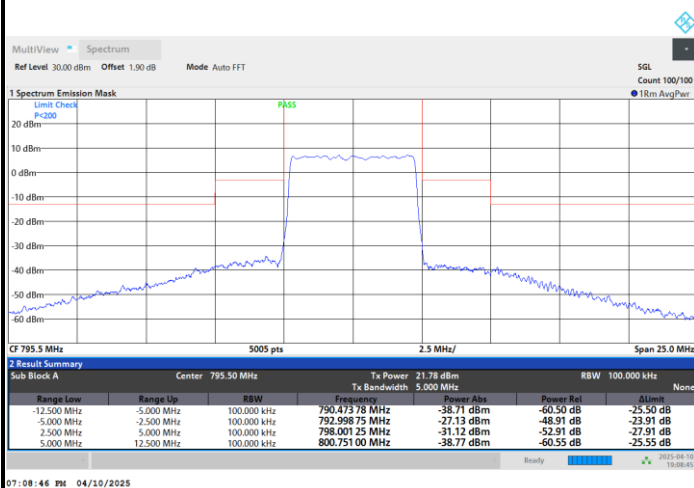
## 1RB0



## 1RBmax



## Full RB

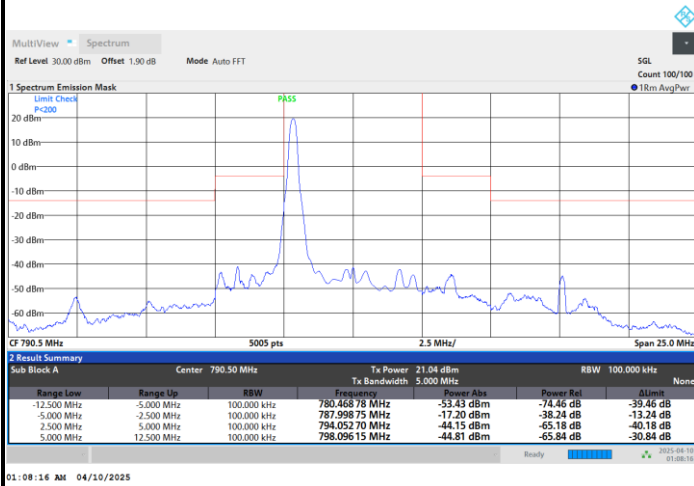




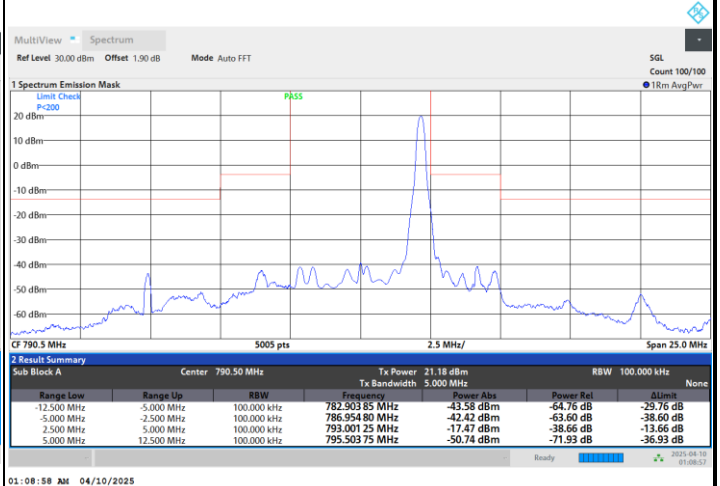
## FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

## Lowest Channel

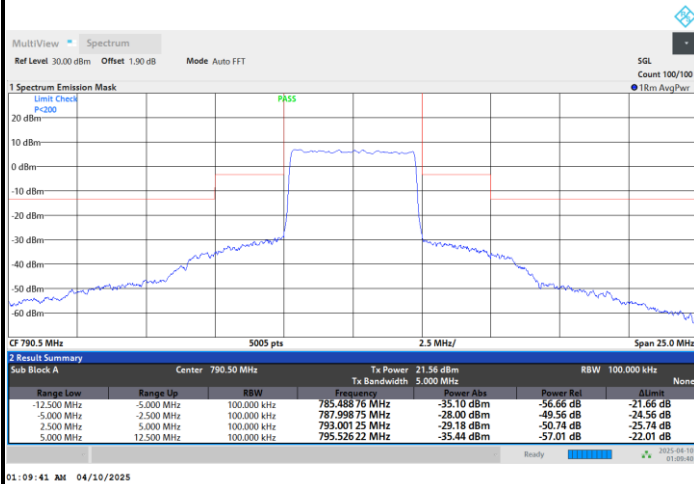
## 1RB0



## 1RBmax



## Full RB

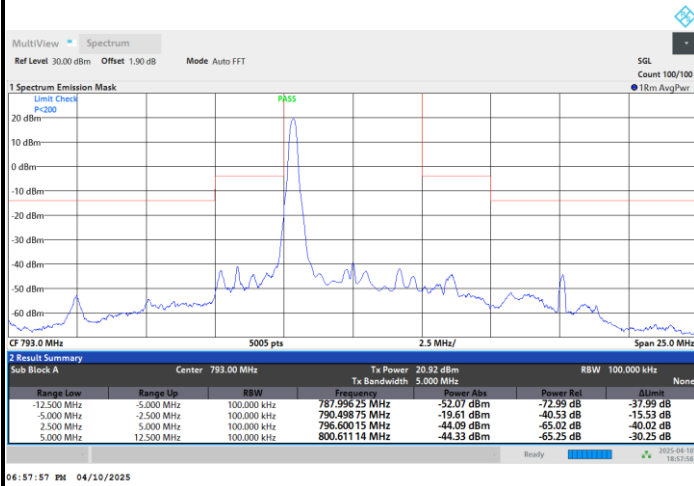




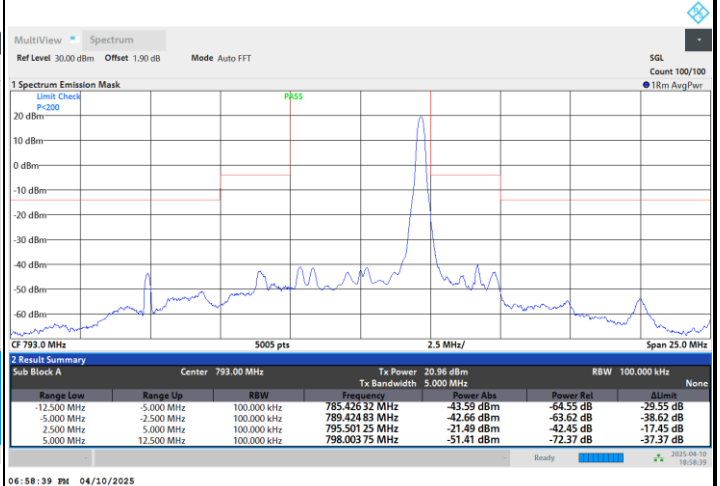
## FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

## Middle Channel

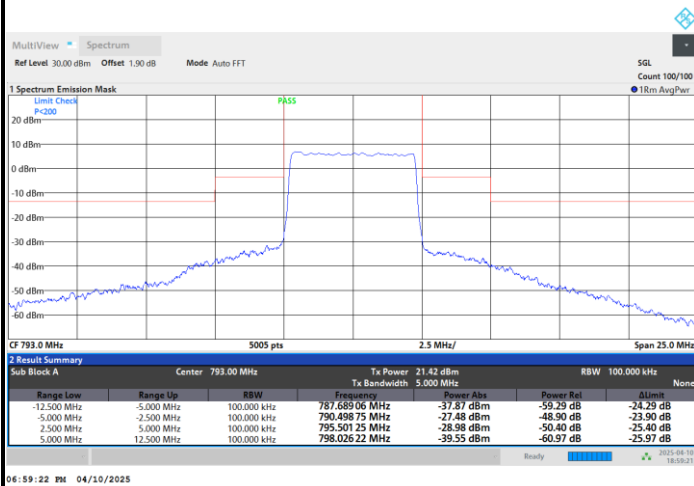
## 1RB0



## 1RBmax



## Full RB

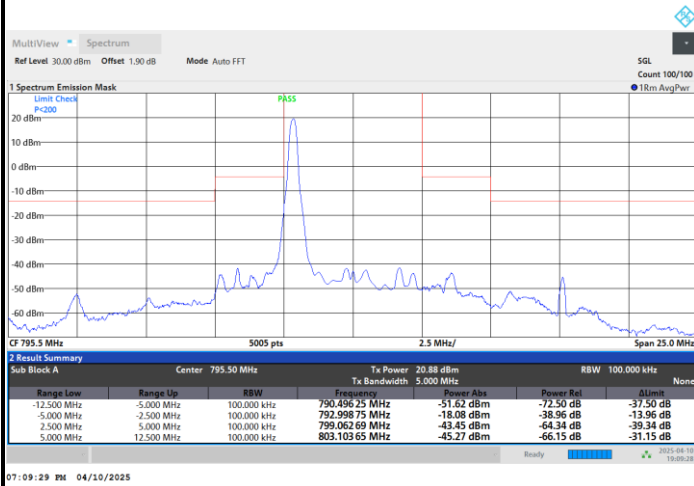




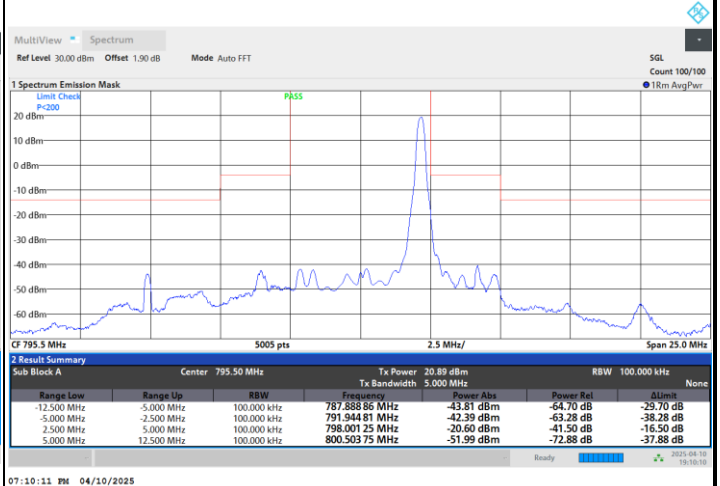
## FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

## Highest Channel

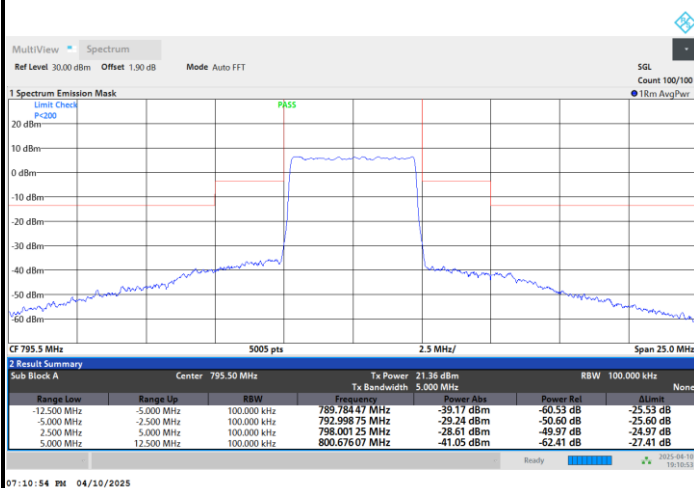
## 1RB0



## 1RBmax



## Full RB

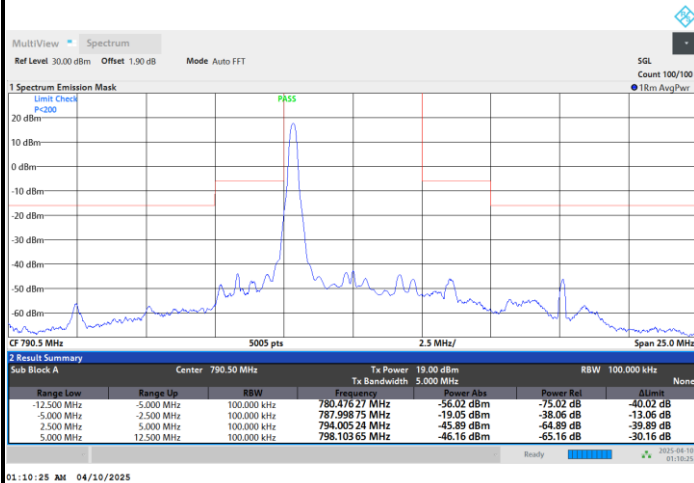




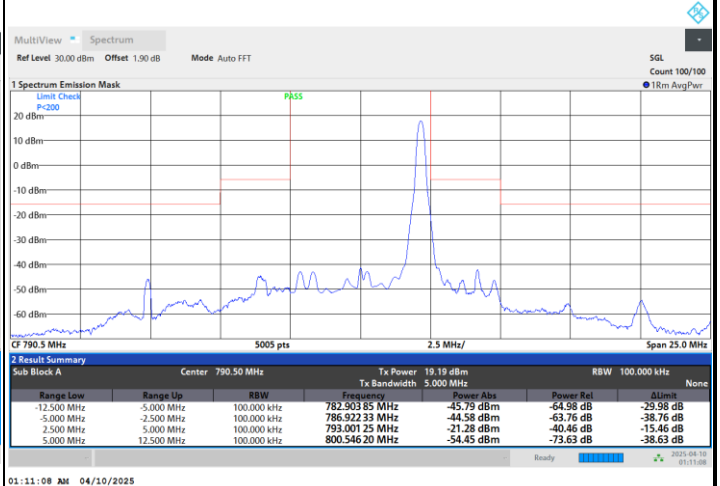
## FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

## Lowest Channel

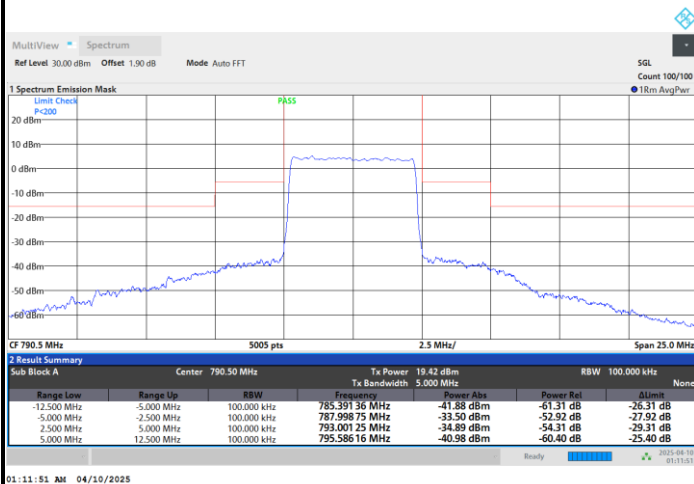
## 1RB0



## 1RBmax



## Full RB

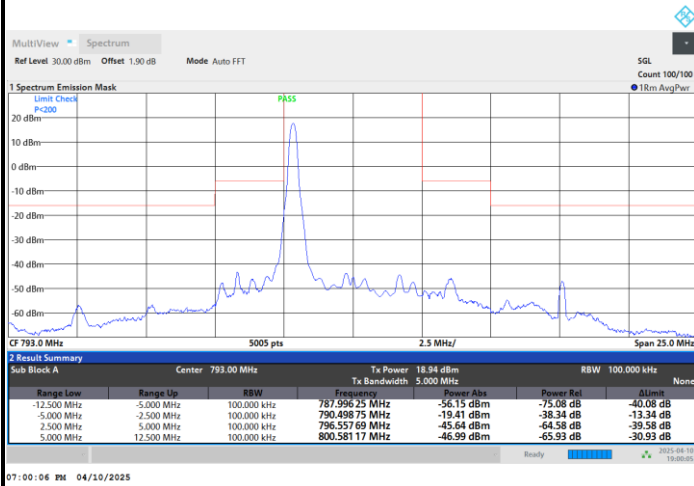




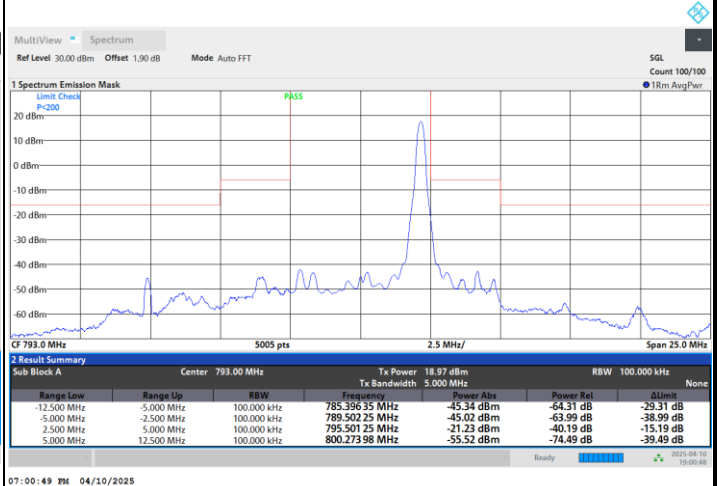
## FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

## Middle Channel

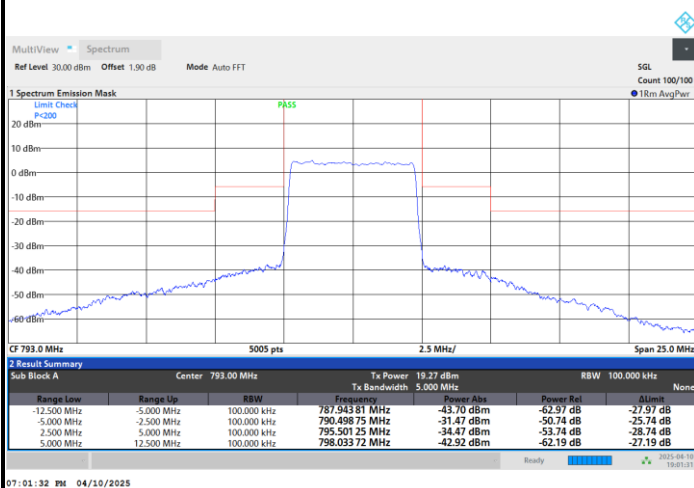
## 1RB0



## 1RBmax



## Full RB

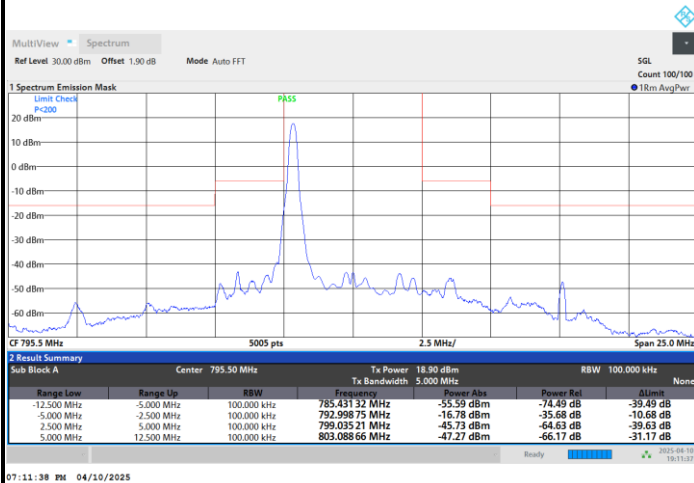




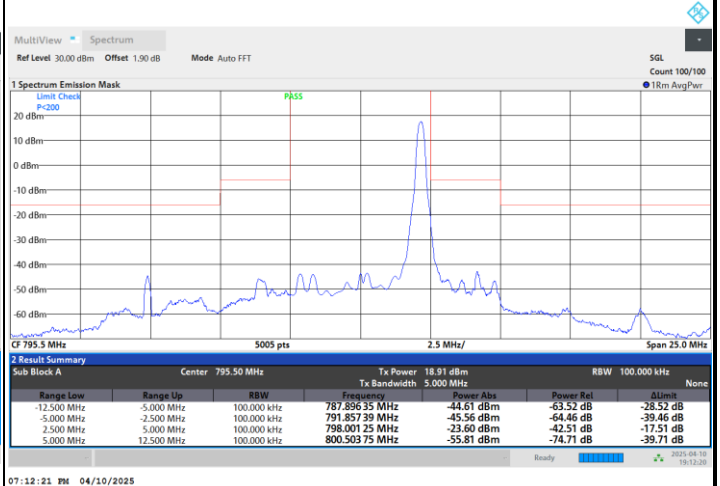
## FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

## Highest Channel

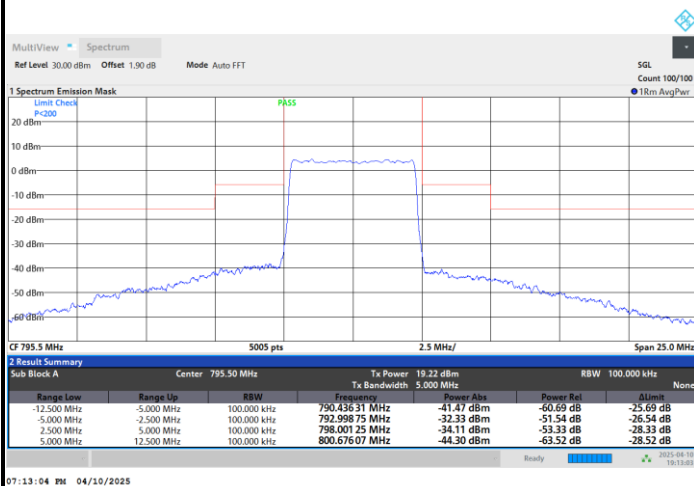
## 1RB0



## 1RBmax



## Full RB

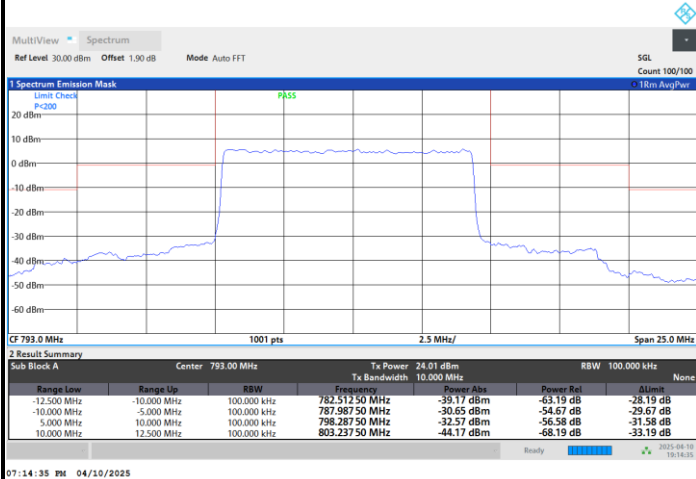




## FR1 n14 / 10MHz / DFT-S OFDM / BPSK

## Middle Channel

## Full RB

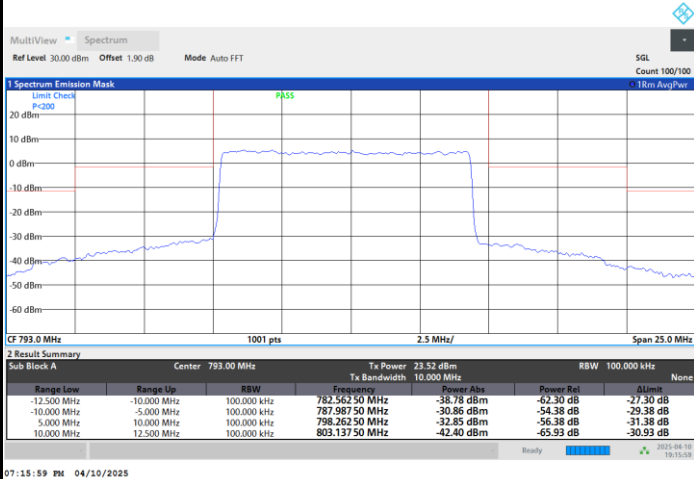




## FR1 n14 / 10MHz / DFT-S OFDM / QPSK

## Middle Channel

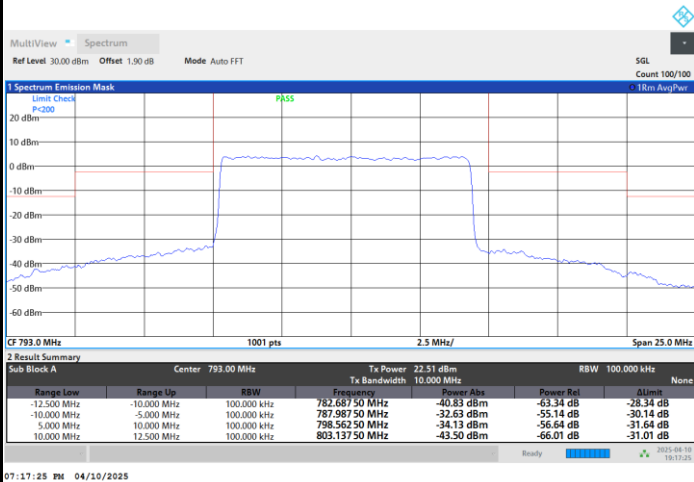
## Full RB



## FR1 n14 / 10MHz / DFT-S OFDM / 16QAM

## Middle Channel

## Full RB

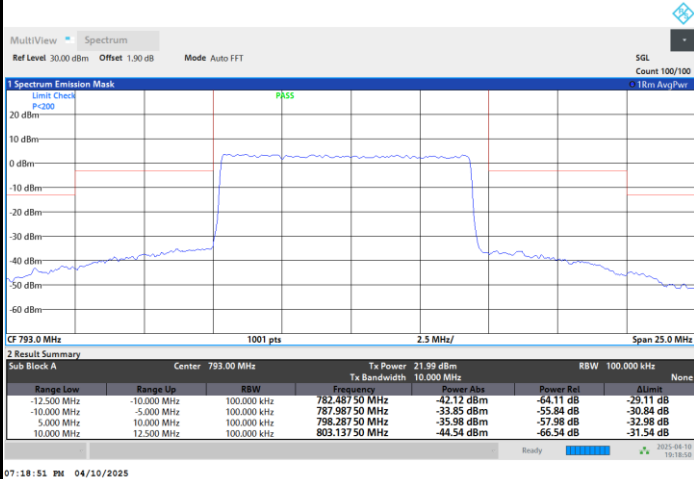




## FR1 n14 / 10MHz / DFT-S OFDM / 64QAM

## Middle Channel

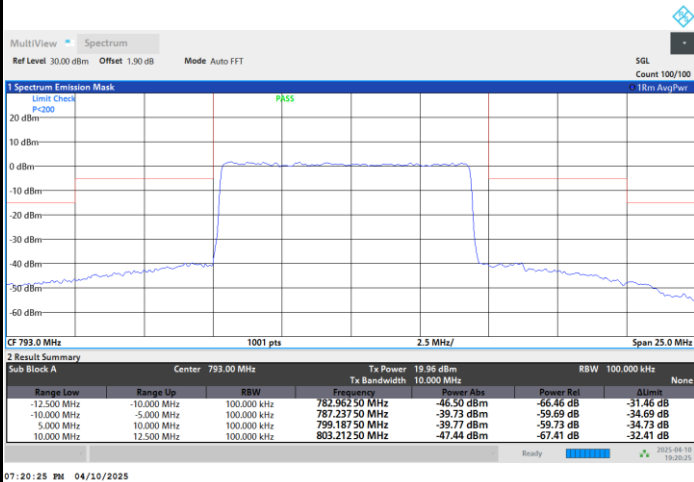
## Full RB



## FR1 n14 / 10MHz / DFT-S OFDM / 256QAM

## Middle Channel

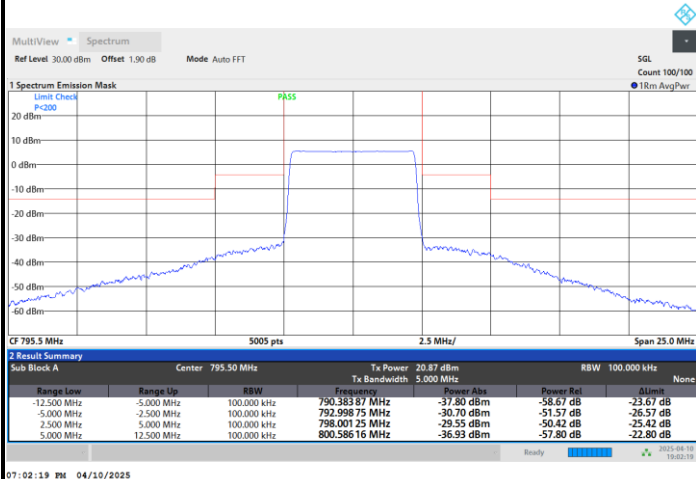
## Full RB





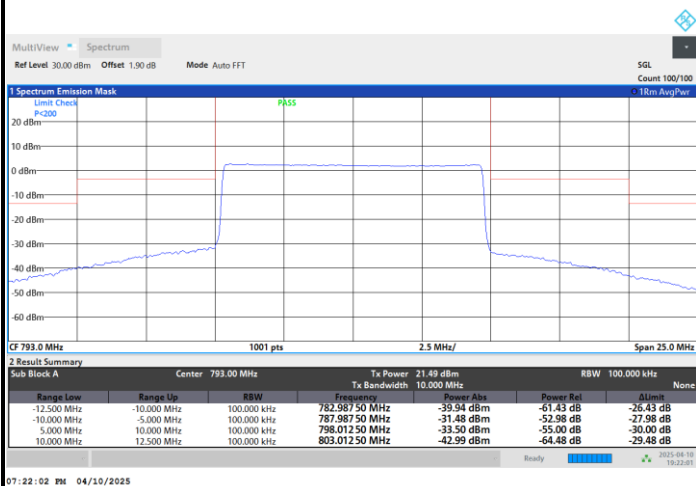
## FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB

## Highest Channel



## FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB

## Middle Channel

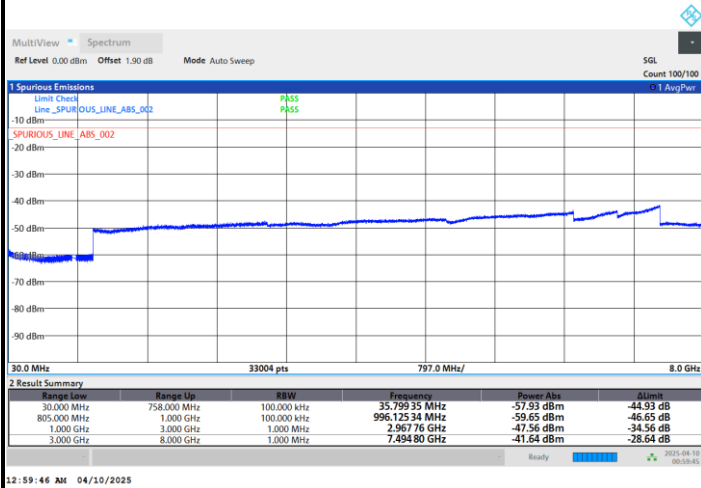




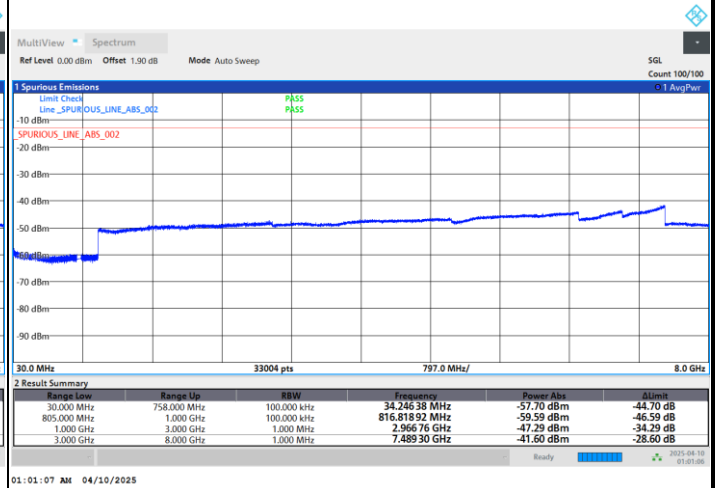
# Conducted Spurious Emission

FR1 n14 / 5MHz / DFT-S OFDM / QPSK / 1RB1

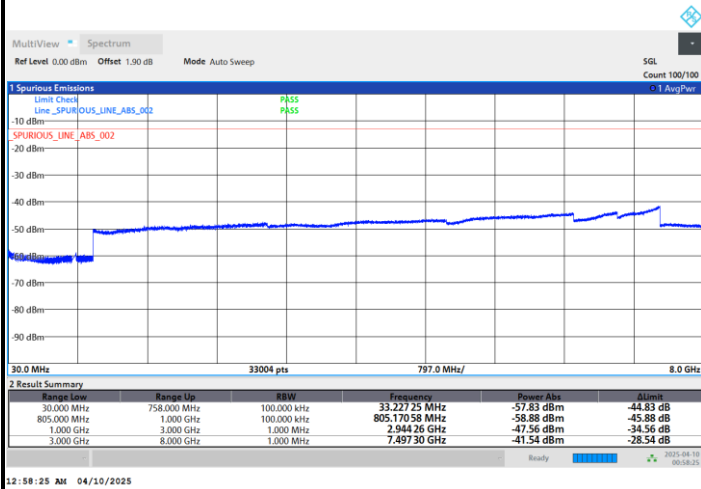
## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n14 (BPSK) / Middle Channel | Limit   |
|---------------------|-------------------|---------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                        | Note 2. |
|                     |                   | Deviation (ppm)                 | Result  |
| 50                  | Normal Voltage    | 0.0009                          | PASS    |
| 40                  | Normal Voltage    | 0.0049                          |         |
| 30                  | Normal Voltage    | 0.0055                          |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                          |         |
| 10                  | Normal Voltage    | 0.0047                          |         |
| 0                   | Normal Voltage    | 0.0035                          |         |
| -10                 | Normal Voltage    | 0.0009                          |         |
| -20                 | Normal Voltage    | 0.0045                          |         |
| -30                 | Normal Voltage    | 0.0050                          |         |
| 20                  | Maximum Voltage   | 0.0047                          |         |
| 20                  | Normal Voltage    | 0.0000                          |         |
| 20                  | Minimum Voltage   | 0.0032                          |         |

**Note:**

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

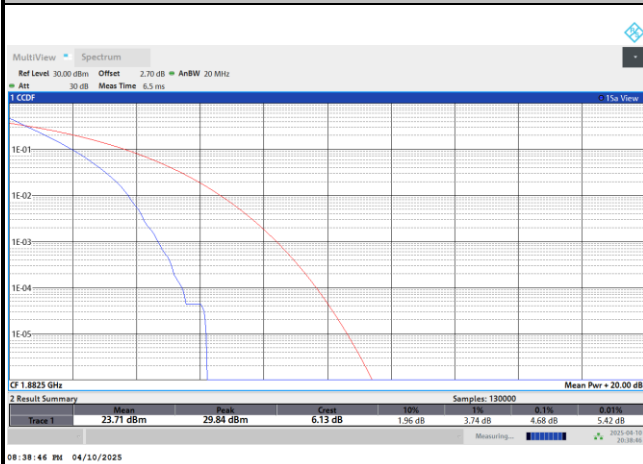
**FR1 n25****<SISO Mode>****Peak-to-Average Ratio**

| Mode      | FR1 n25 / 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 | 4.68                         | 5.64    | 6.52    | 6.72    | <b>PASS</b> |
| Mode      | FR1 n25 / 20MHz / DFT-S OFDM |         |         |         |             |
| Mod.      | 256QAM                       |         |         |         | Limit: 13dB |
| RB Size   | Full RB                      |         |         |         | Result      |
| Middle CH | 6.84                         |         |         |         | <b>PASS</b> |

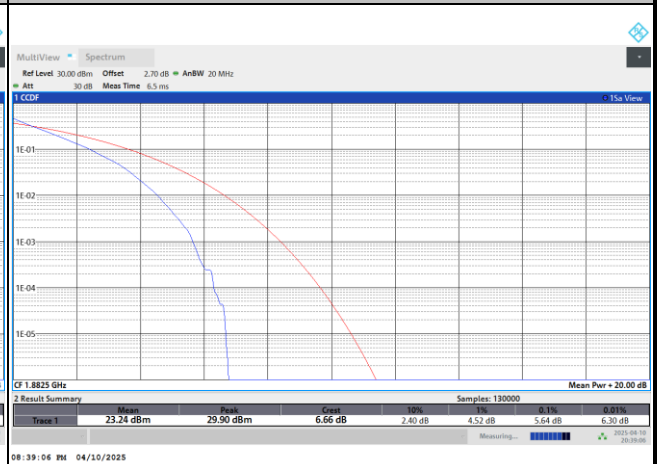


## FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

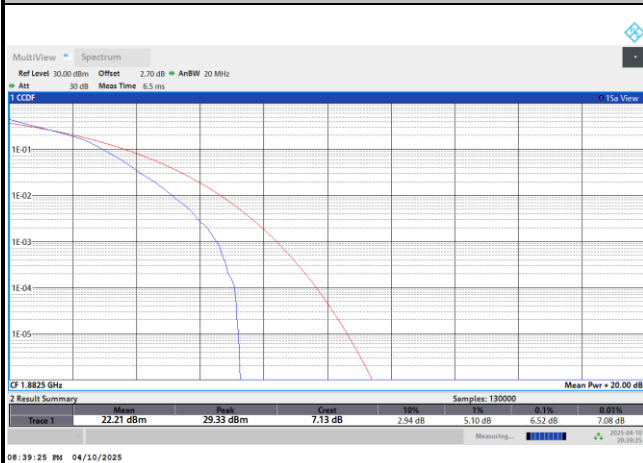
## PI/2 BPSK



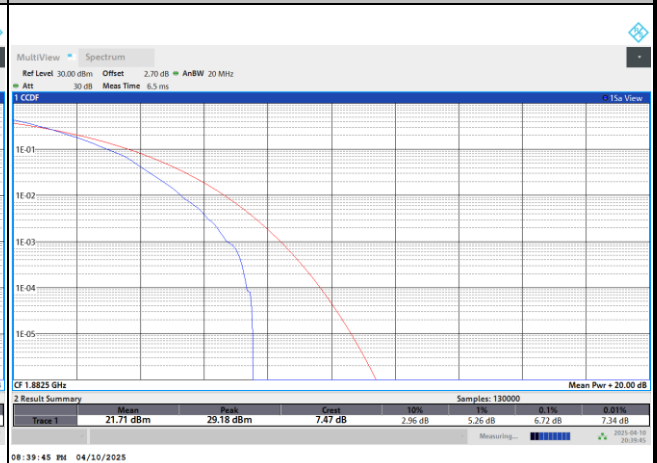
## QPSK



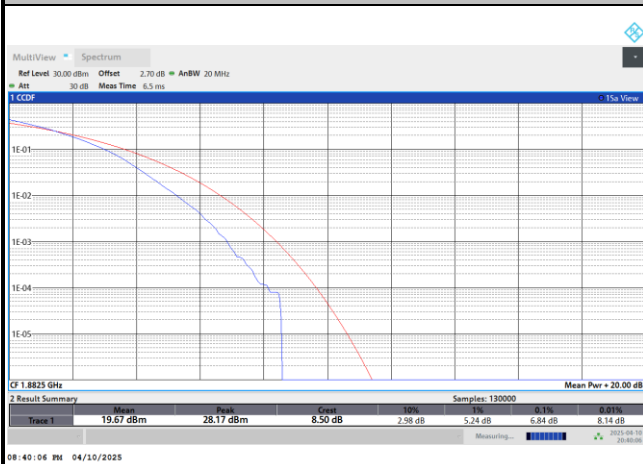
## 16QAM



## 64QAM



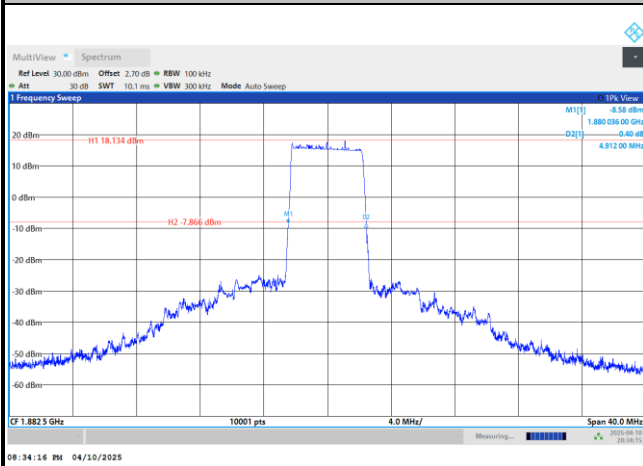
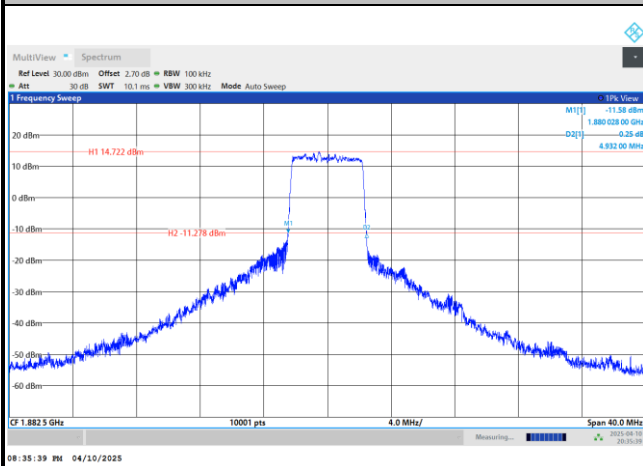
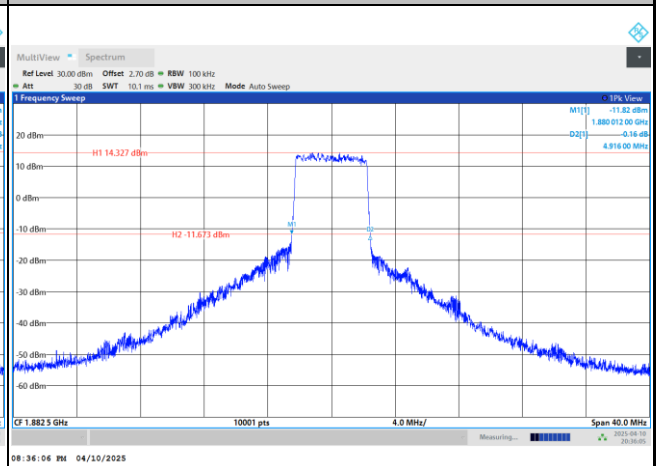
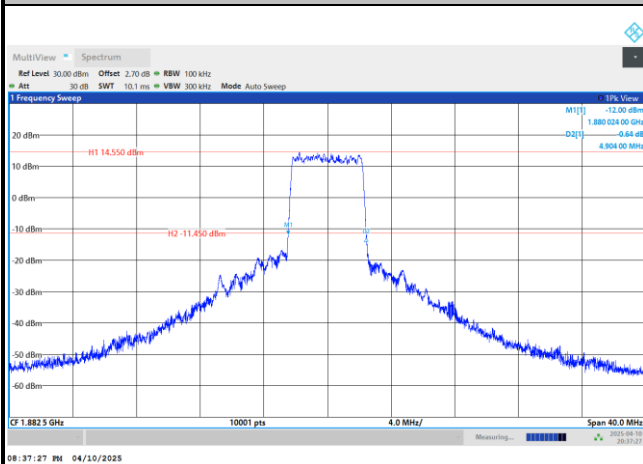
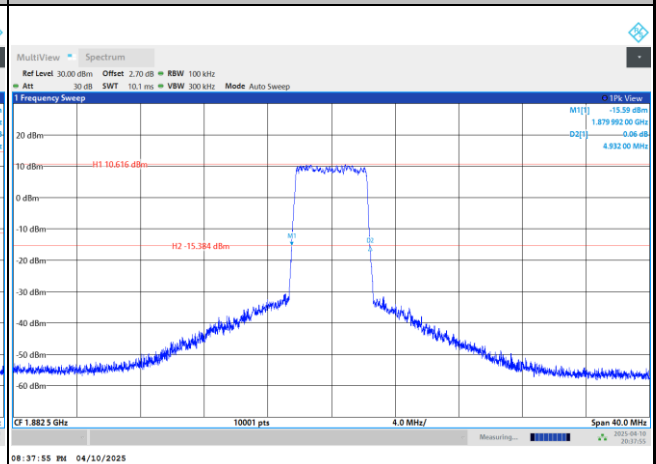
## 256QAM

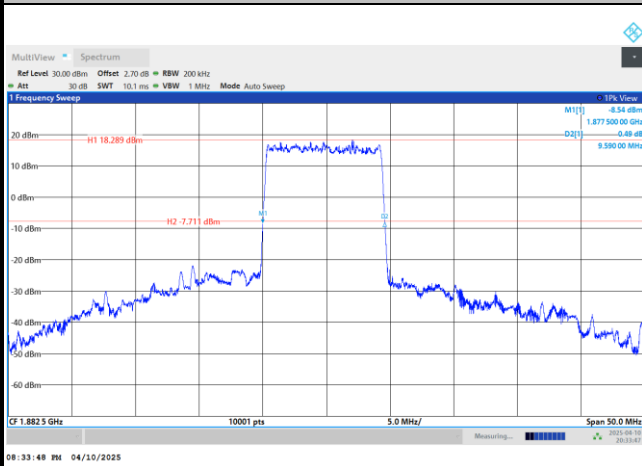
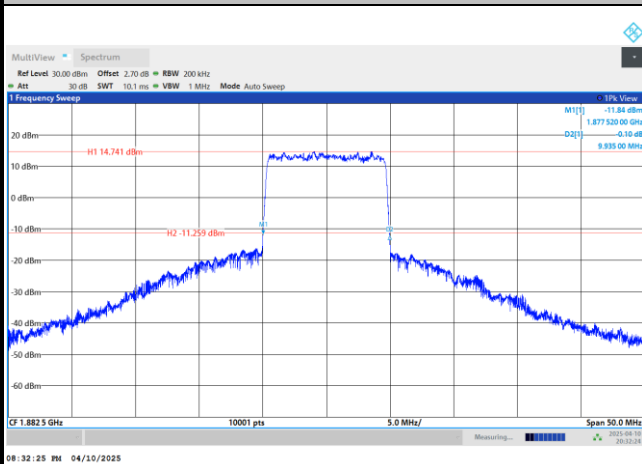
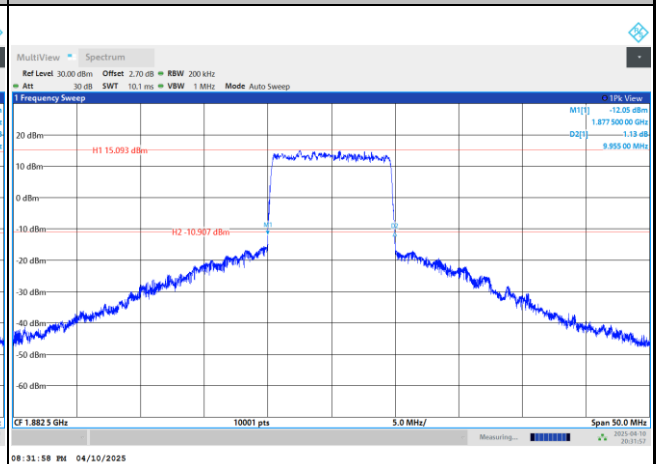
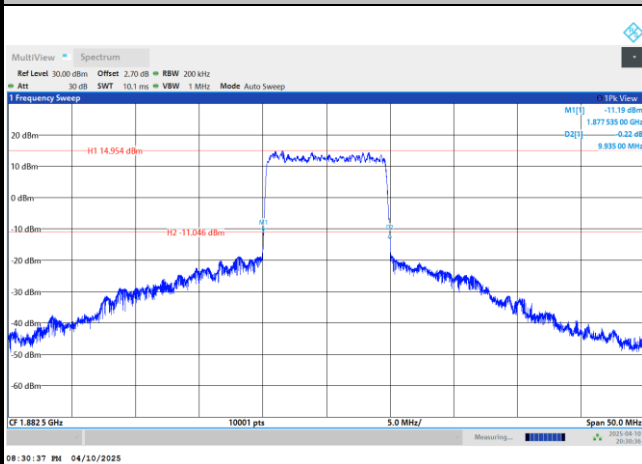
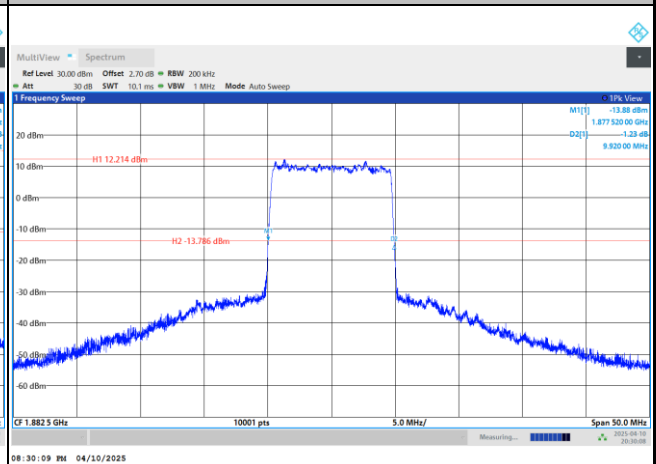


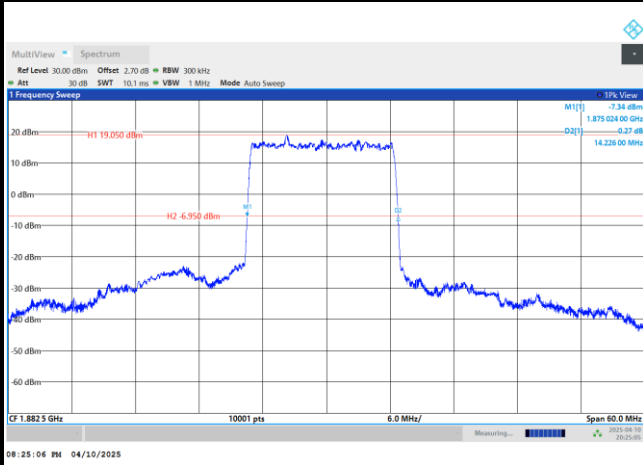
**26dB Bandwidth**

| Mode      | FR1 n25 : 26dB BW(MHz) / DFT-S OFDM |  |           |  |           |  |           |  |
|-----------|-------------------------------------|--|-----------|--|-----------|--|-----------|--|
| BW        | 5MHz                                |  | 10MHz     |  | 15MHz     |  | 20MHz     |  |
| Mod.      | PI/2 BPSK                           |  | PI/2 BPSK |  | PI/2 BPSK |  | PI/2 BPSK |  |
| Middle CH | 4.91                                |  | 9.59      |  | 14.22     |  | 19.14     |  |

| Mode      | FR1 n25 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |       |        |
|-----------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 5MHz                             |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 4.93                             | 4.91   | 9.93  | 9.95   | 15.00 | 15.01  | 20.23 | 20.19  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 4.90                             | 4.93   | 9.93  | 9.92   | 14.97 | 14.97  | 20.55 | 20.21  |

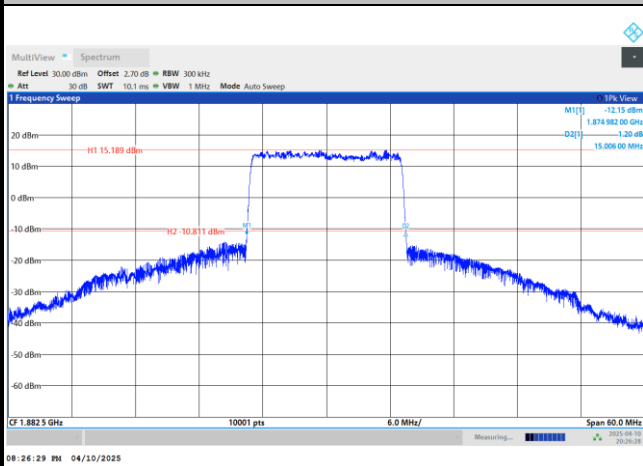
**FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB**
**PI/2 BPSK**

**FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB**
**QPSK**

**16QAM**

**64QAM**

**256QAM**


**FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB**
**PI/2 BPSK**

**FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB**
**QPSK**

**16QAM**

**64QAM**

**256QAM**


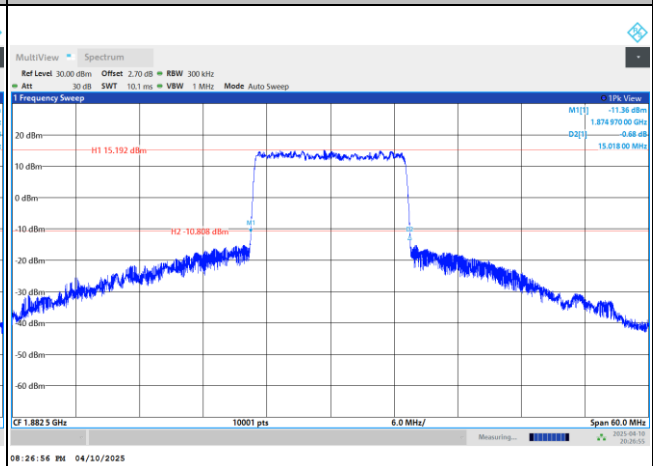
**FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB****PI/2 BPSK**

## FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

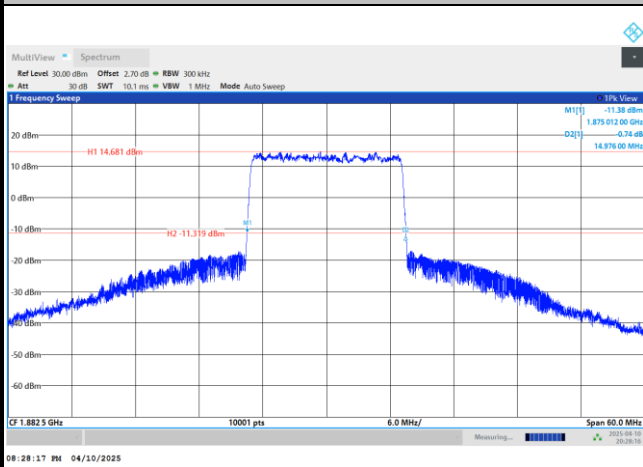
## QPSK



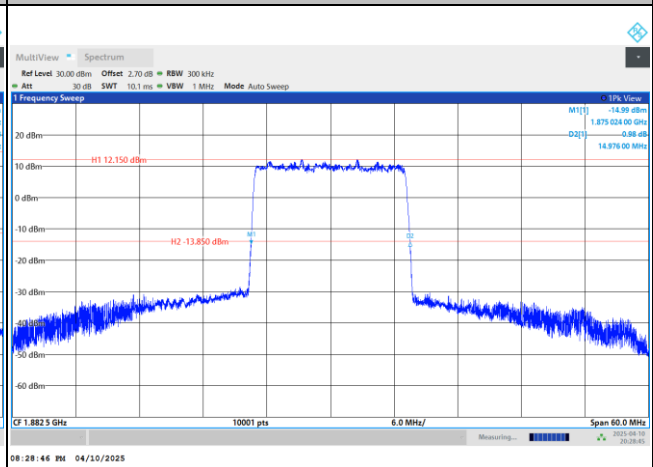
## 16QAM



## 64QAM



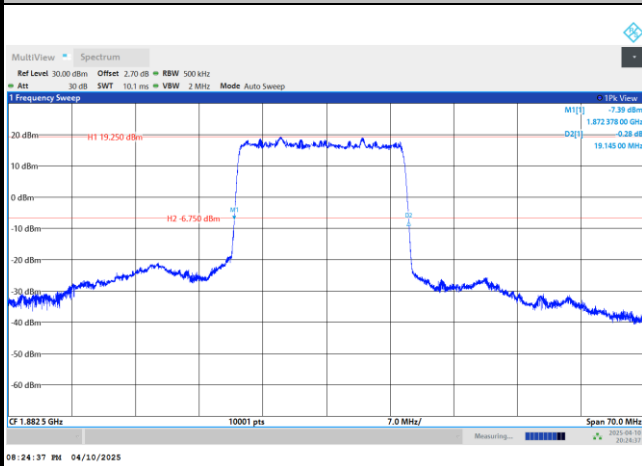
## 256QAM





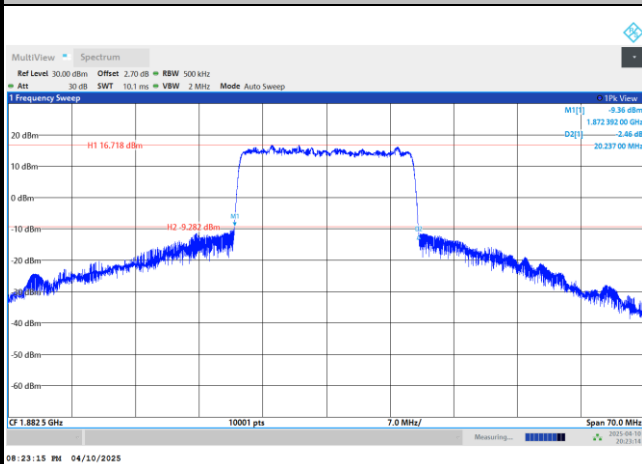
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

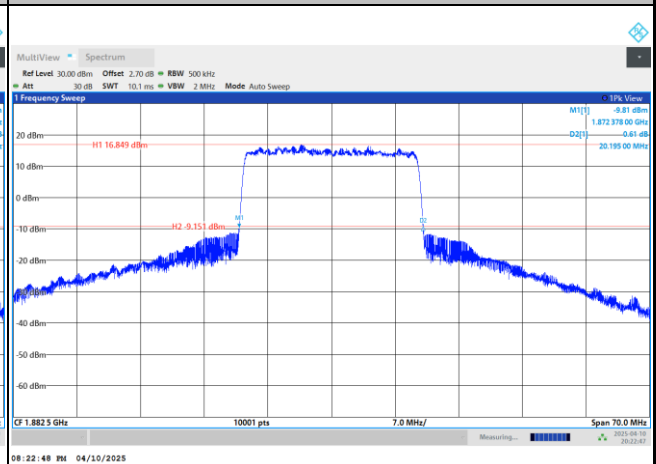


FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

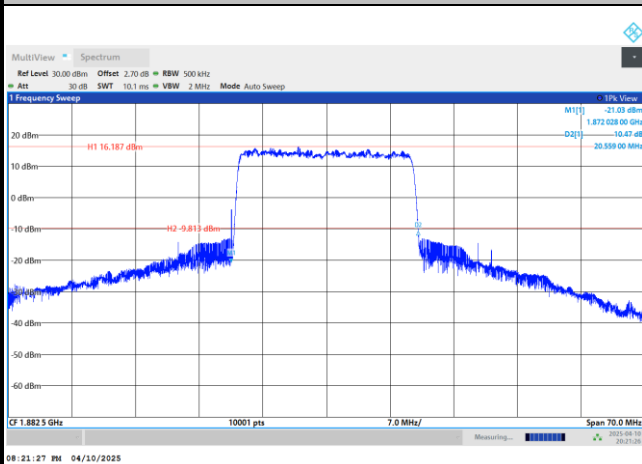
QPSK



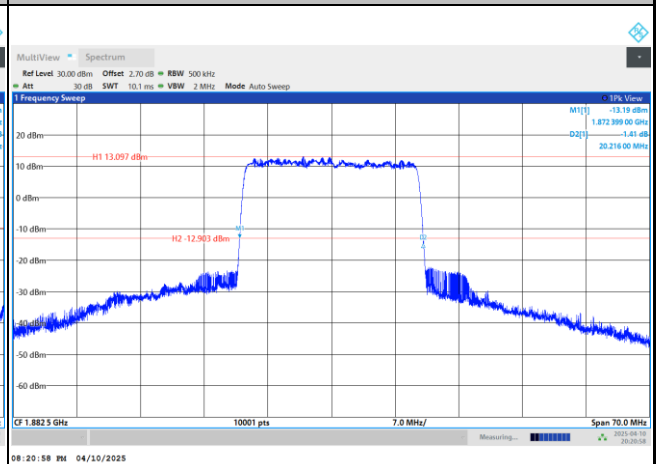
16QAM



64QAM



256QAM



**Occupied Bandwidth**

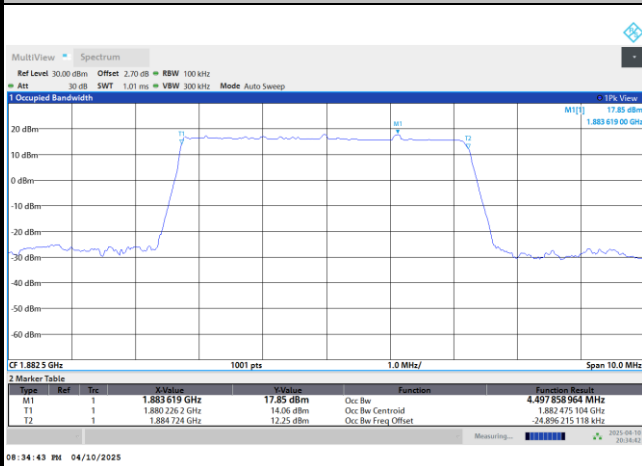
| Mode      | FR1 n25 : 99%OBW(MHz) / DFT-S OFDM |  |           |  |           |  |           |  |
|-----------|------------------------------------|--|-----------|--|-----------|--|-----------|--|
| BW        | 5MHz                               |  | 10MHz     |  | 15MHz     |  | 20MHz     |  |
| Mod.      | PI/2 BPSK                          |  | PI/2 BPSK |  | PI/2 BPSK |  | PI/2 BPSK |  |
| Middle CH | 4.49                               |  | 9.01      |  | 13.47     |  | 18.02     |  |

| Mode      | FR1 n25 : 99%OBW (MHz) / CP OFDM |        |       |        |       |        |       |        |
|-----------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW        | 5MHz                             |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 4.49                             | 4.50   | 9.30  | 9.33   | 14.13 | 14.17  | 19.06 | 19.03  |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 4.49                             | 4.48   | 9.33  | 9.31   | 14.15 | 14.15  | 19.07 | 18.97  |



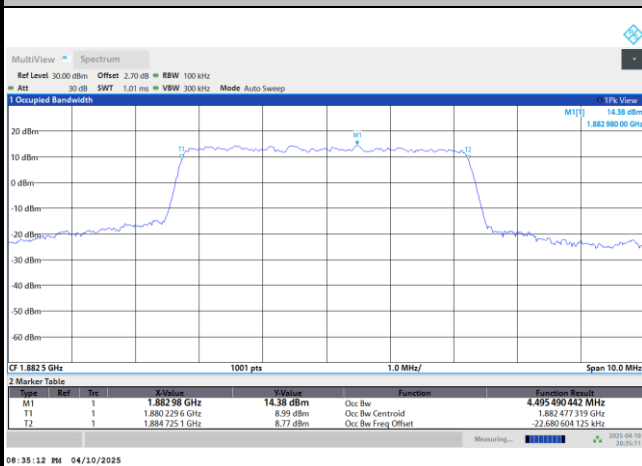
## FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

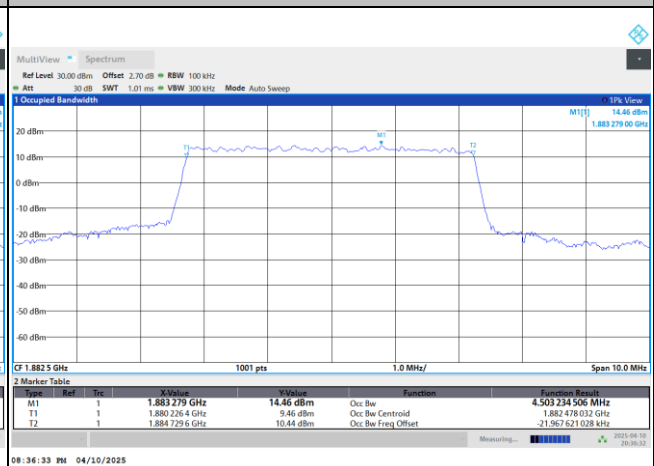


## FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB

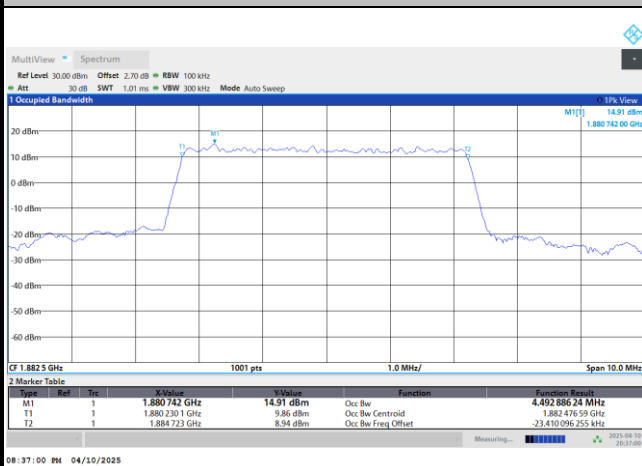
## QPSK



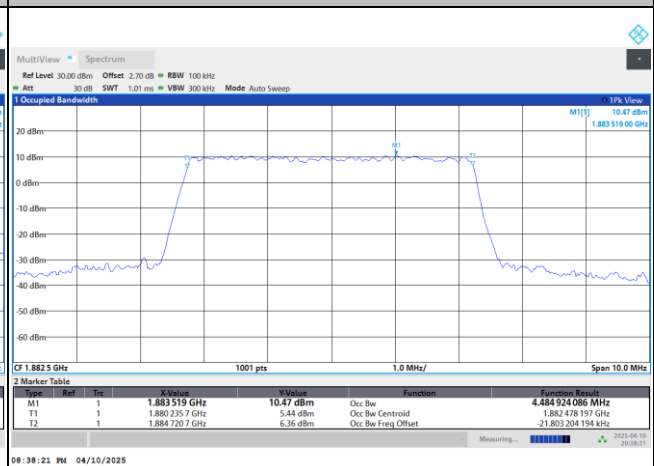
## 16QAM



## 64QAM



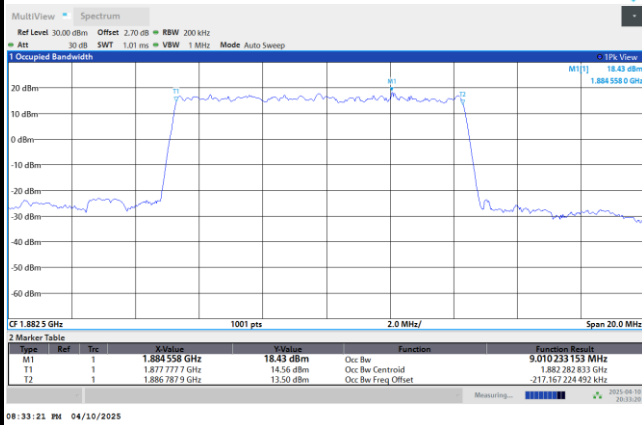
## 256QAM





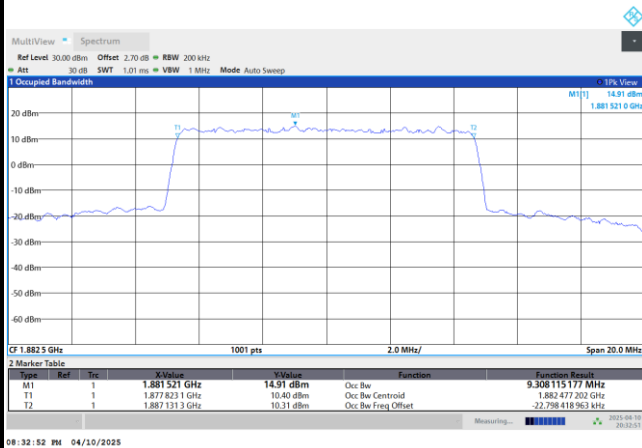
## FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

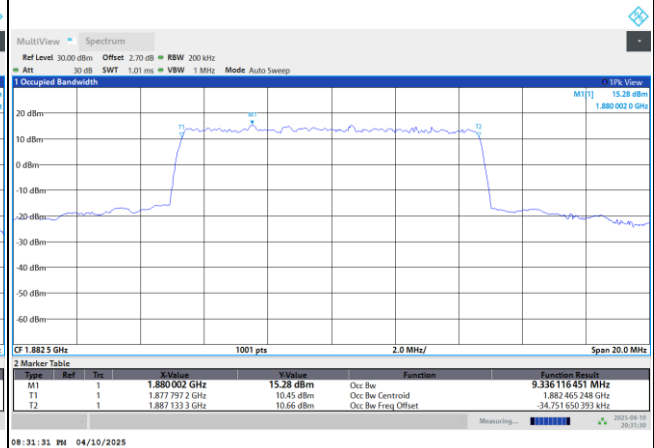


## FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

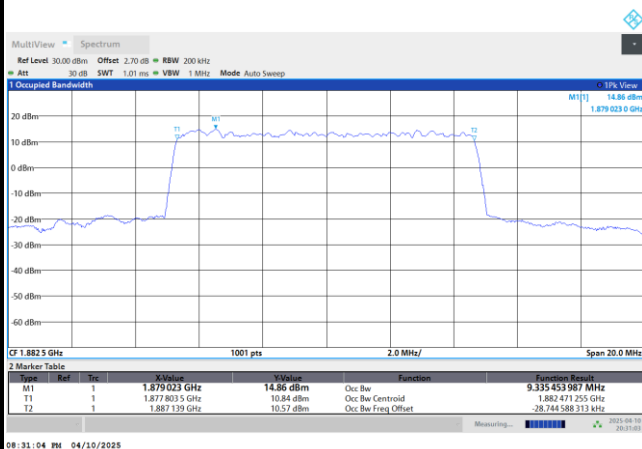
## QPSK



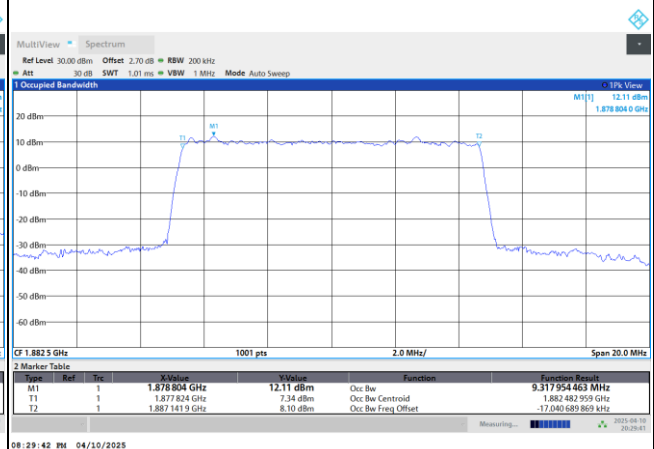
## 16QAM



## 64QAM

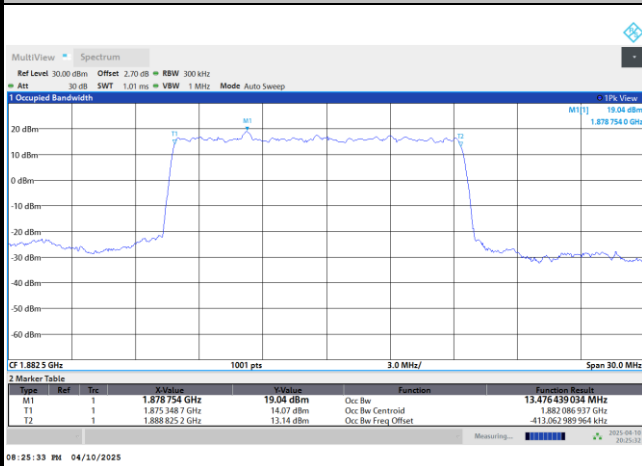


## 256QAM



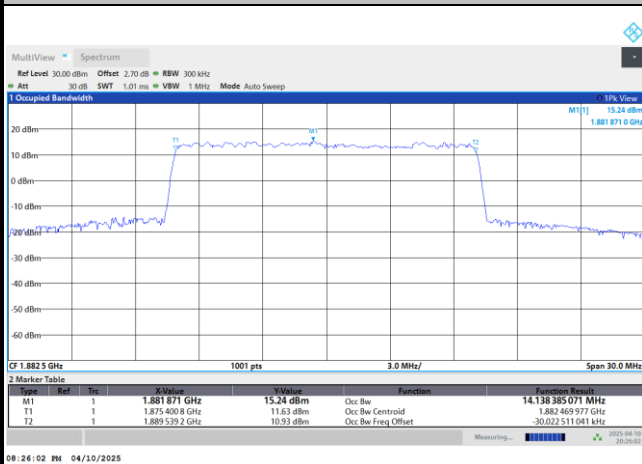
### FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

#### PI/2 BPSK

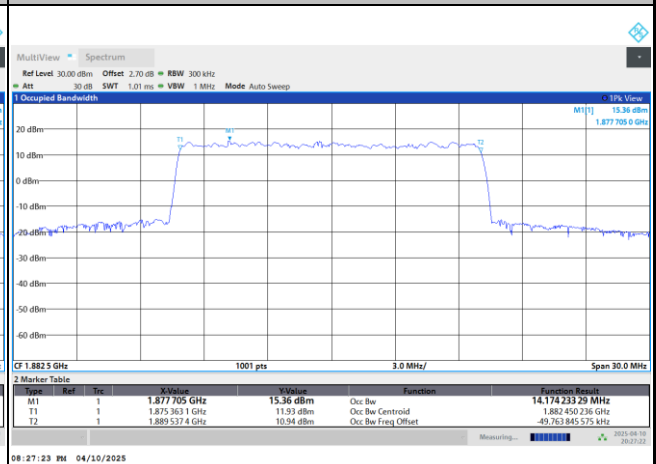


### FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

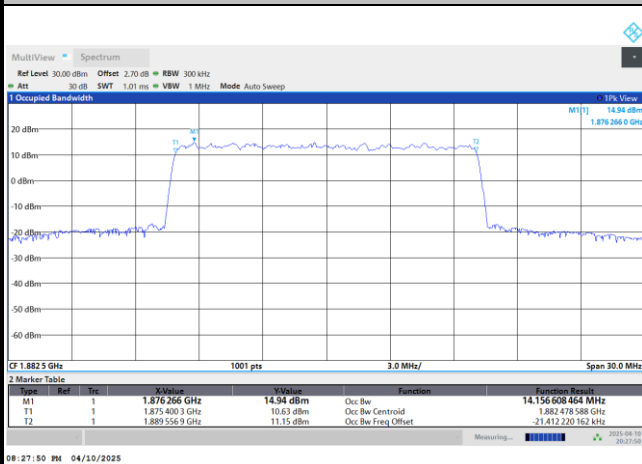
#### QPSK



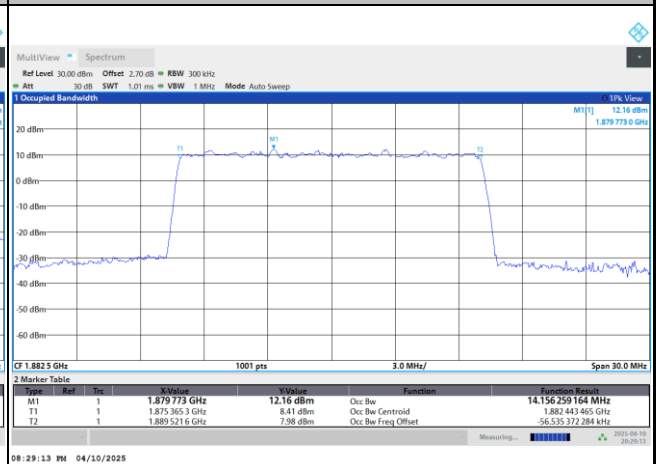
#### 16QAM



#### 64QAM



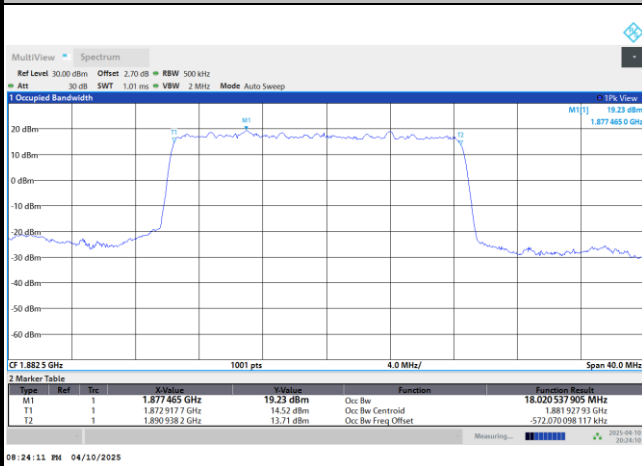
#### 256QAM





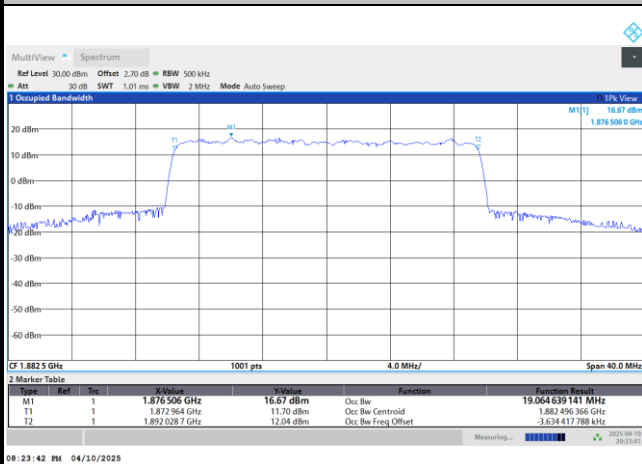
## FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

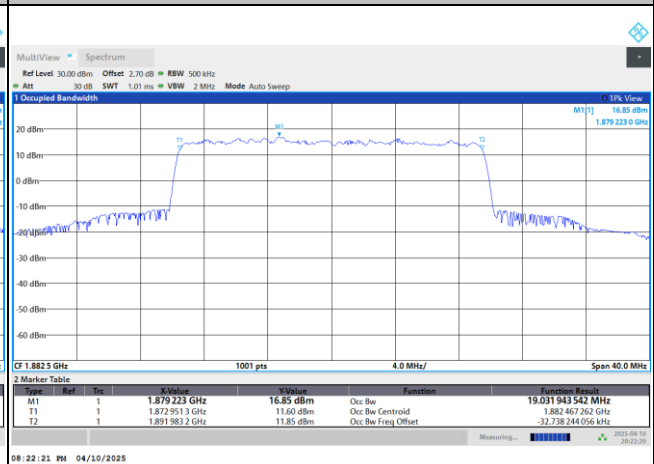


## FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

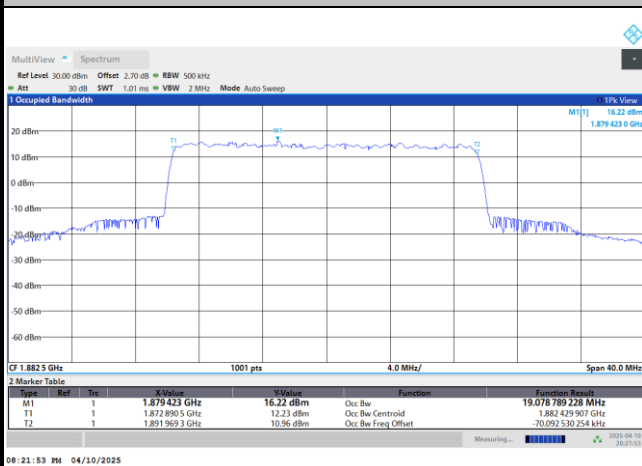
## QPSK



## 16QAM



## 64QAM



## 256QAM

