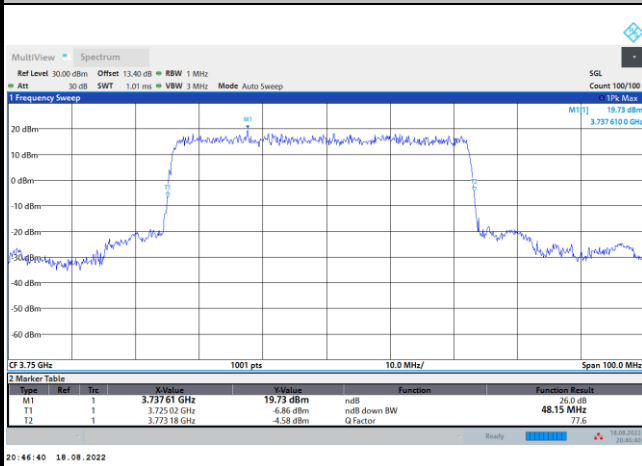




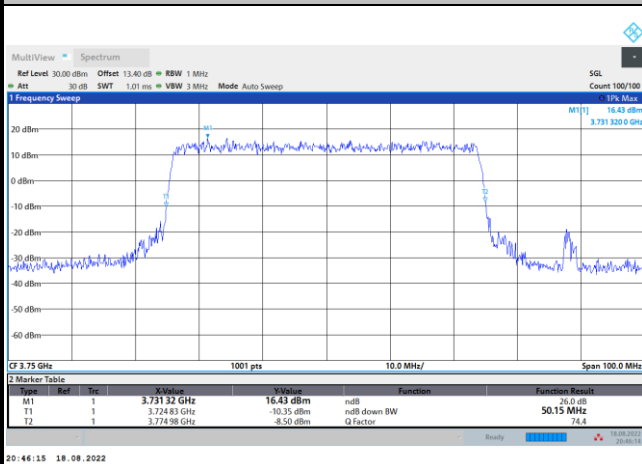
## FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

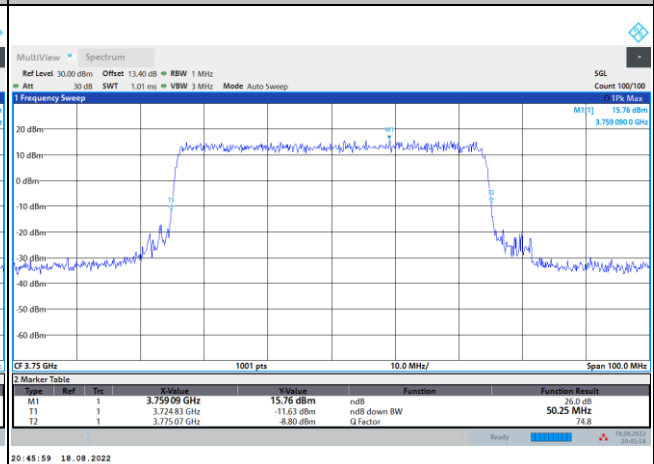


## FR1 n78 (HPUE) / 50MHz / CP OFDM / Middle Channel / Full RB

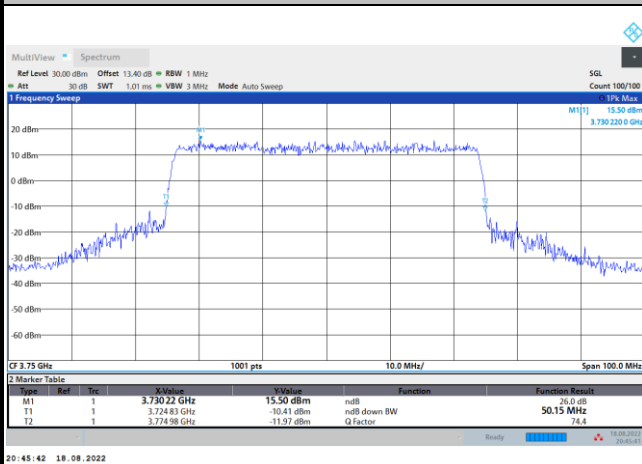
## QPSK



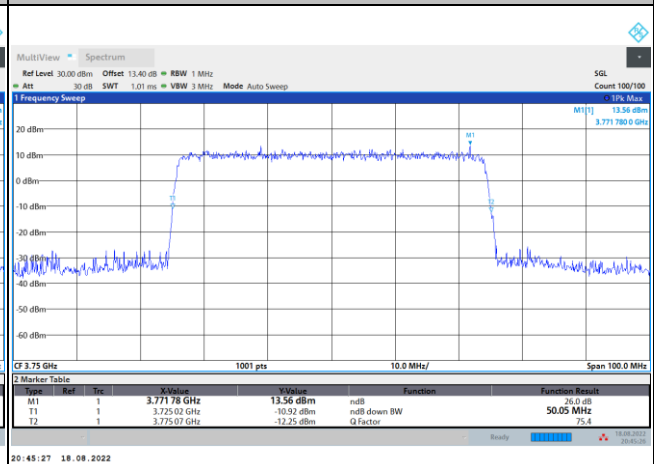
## 16QAM



## 64QAM



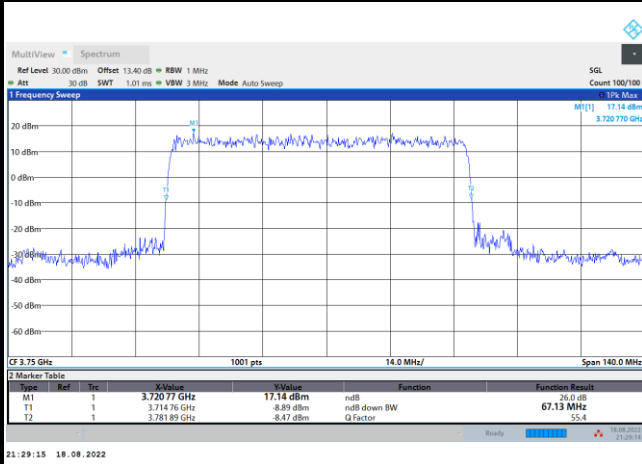
## 256QAM





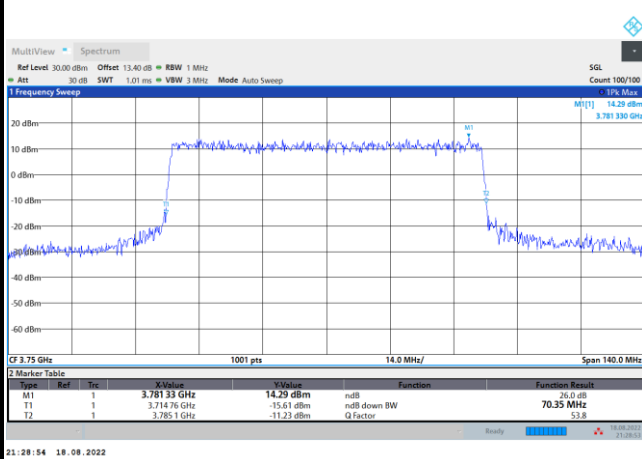
## FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

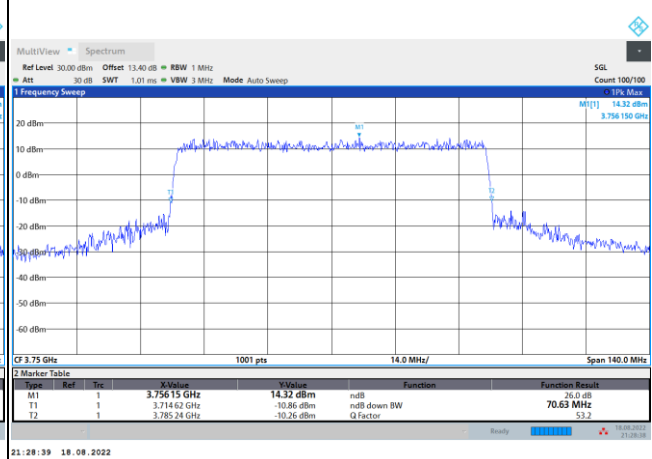


## FR1 n78 (HPUE) / 70MHz / CP OFDM / Middle Channel / Full RB

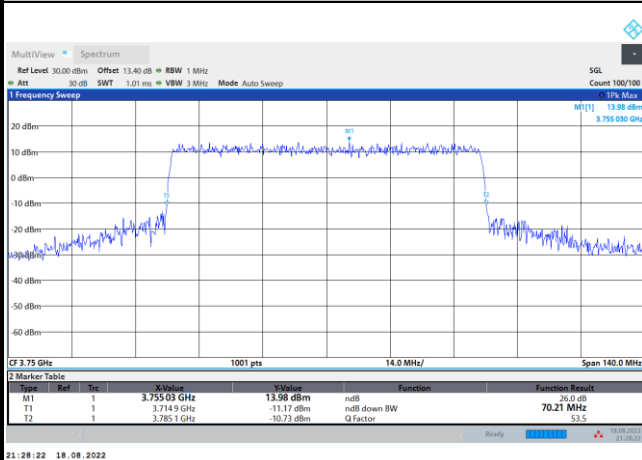
## QPSK



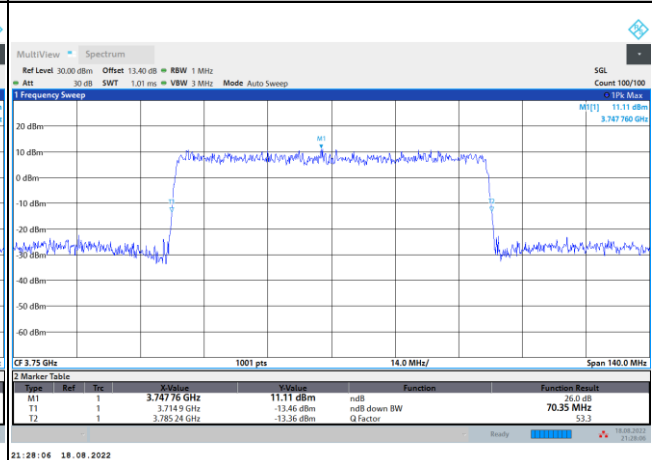
## 16QAM

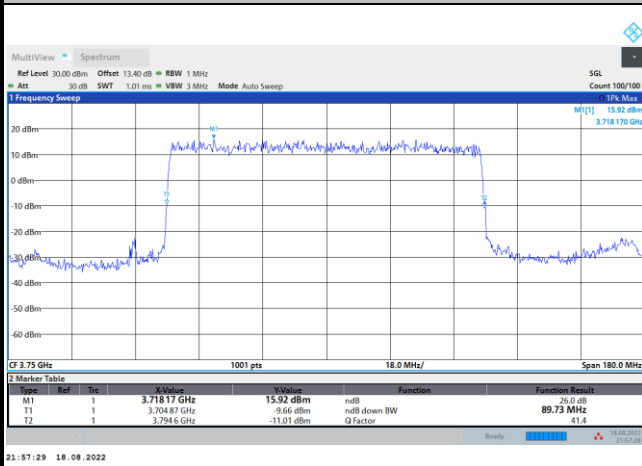
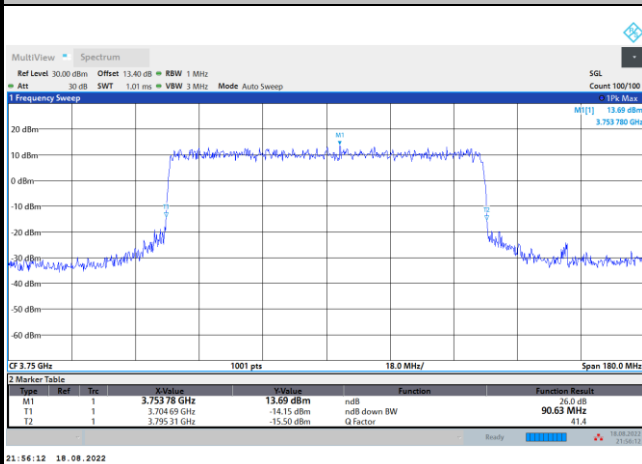
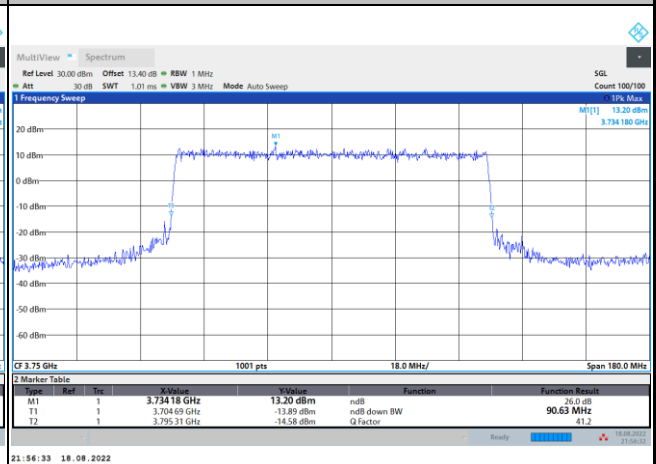
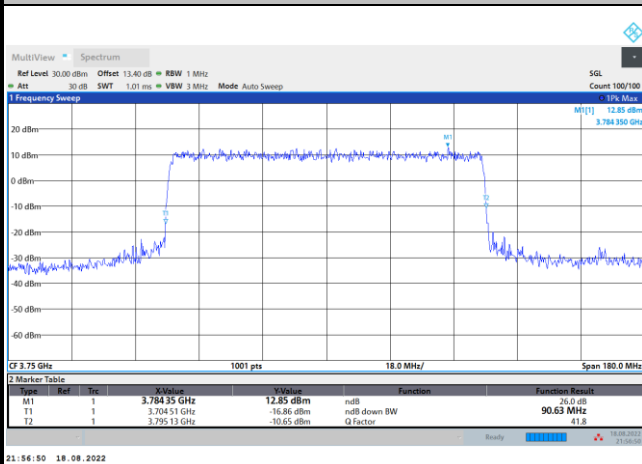
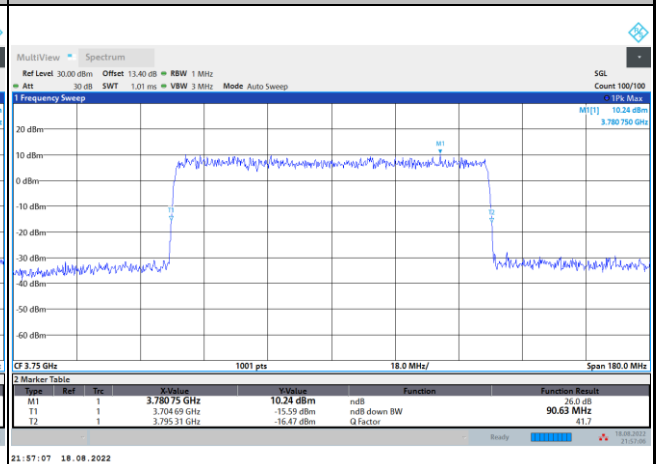


## 64QAM



## 256QAM

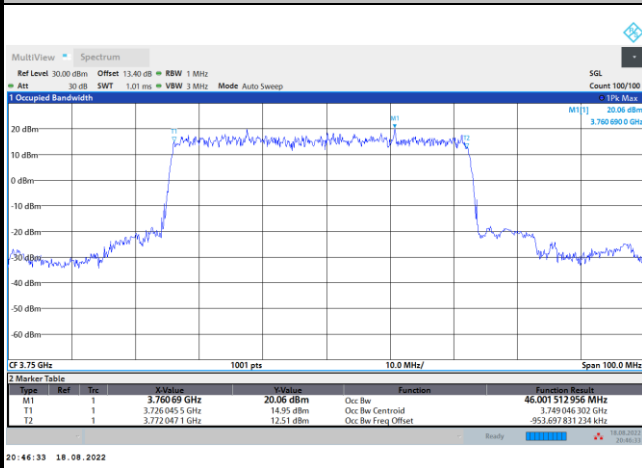
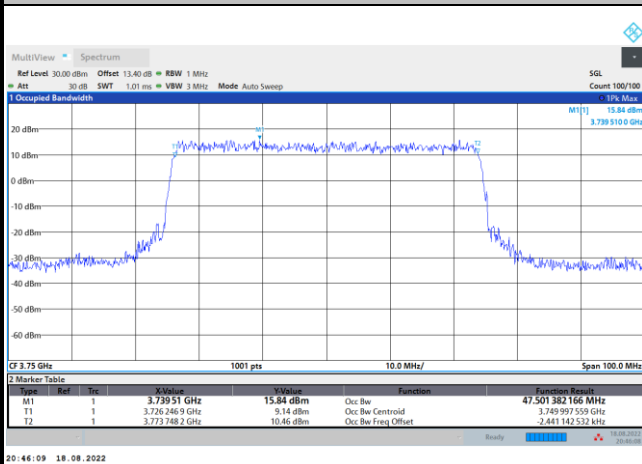
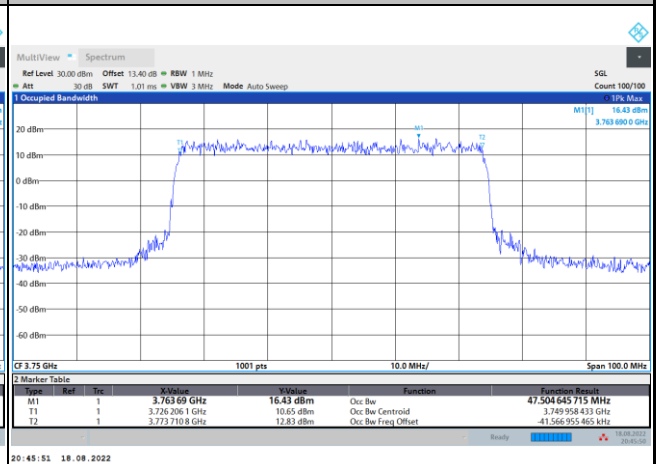
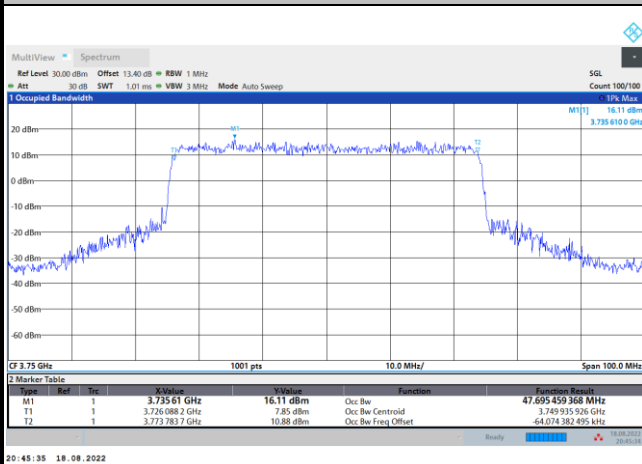
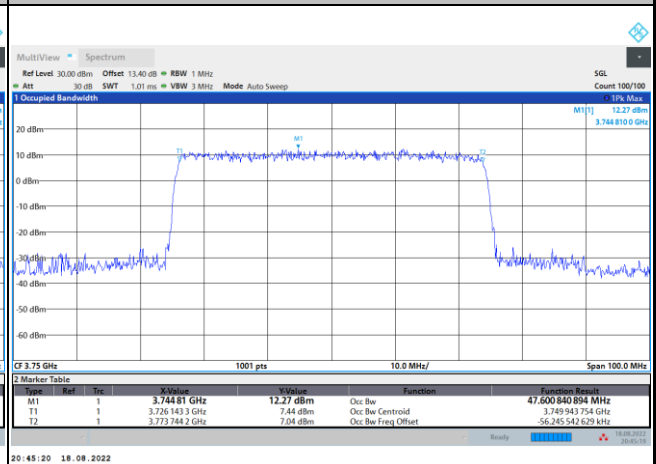


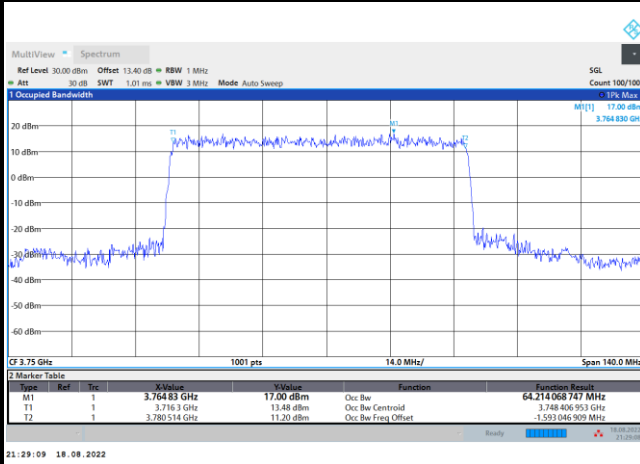
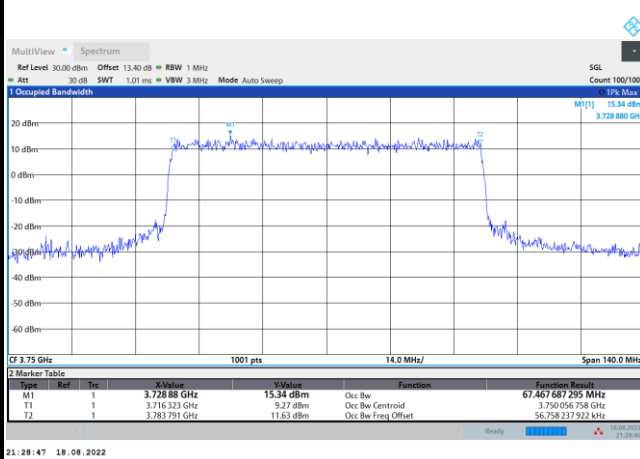
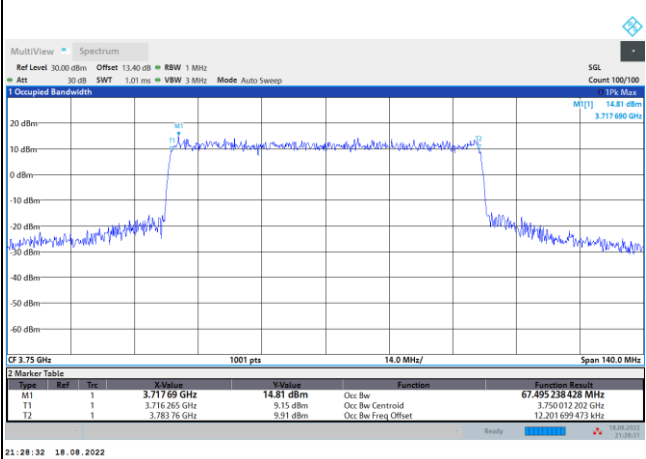
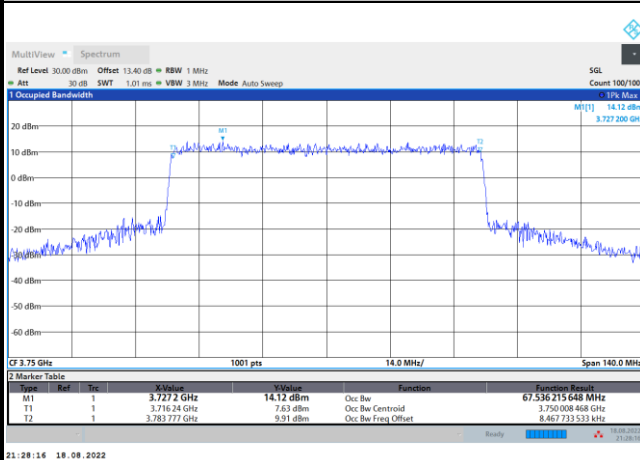
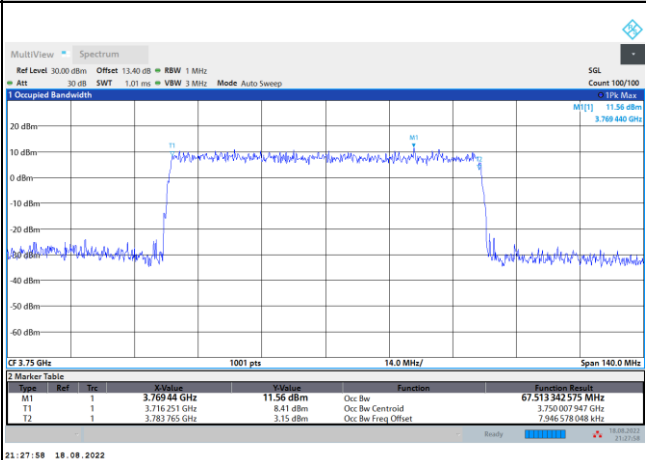
**FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / Middle Channel / Full RB**
**PI/2 BPSK**

**FR1 n78 (HPUE) / 90MHz / CP OFDM / Middle Channel / Full RB**
**QPSK**

**16QAM**

**64QAM**

**256QAM**


**Occupied Bandwidth**

| Mode      | FR1 n78 (HPUE) : OB BW(MHz) / DFT-S OFDM |           |           |           |           |           |           |           |
|-----------|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| BW        | 20MHz                                    | 25MHz     | 30MHz     | 40MHz     | 50MHz     | 60MHz     | 70MHz     | 80MHz     |
| Mod.      | PI/2 BPSK                                | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK |
| Middle CH | -                                        | -         | -         | -         | 46.00     | -         | 64.21     | -         |
| BW        | 90MHz                                    | 100MHz    |           |           |           |           |           |           |
| Mod.      | PI/2 BPSK                                | PI/2 BPSK |           |           |           |           |           |           |
| Middle CH | 86.72                                    | -         |           |           |           |           |           |           |

| Mode      | FR1 n78 (HPUE) : OB BW(MHz) / CP OFDM |        |        |        |       |        |       |        |
|-----------|---------------------------------------|--------|--------|--------|-------|--------|-------|--------|
| BW        | 20MHz                                 |        | 25MHz  |        | 30MHz |        | 40MHz |        |
| Mod.      | QPSK                                  | 16QAM  | QPSK   | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | -                                     | -      | -      | -      | -     | -      | -     | -      |
| Mod.      | 64QAM                                 | 256QAM | 64QAM  | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | -                                     | -      | -      | -      | -     | -      | -     | -      |
| BW        | 50MHz                                 |        | 60MHz  |        | 70MHz |        | 80MHz |        |
| Mod.      | QPSK                                  | 16QAM  | QPSK   | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Middle CH | 47.50                                 | 47.50  | -      | -      | 67.46 | 67.49  | -     | -      |
| Mod.      | 64QAM                                 | 256QAM | 64QAM  | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 47.69                                 | 47.60  | -      | -      | 67.53 | 67.51  | -     | -      |
| BW        | 90MHz                                 |        | 100MHz |        |       |        |       |        |
| Mod.      | QPSK                                  | 16QAM  | QPSK   | 16QAM  |       |        |       |        |
| Middle CH | 87.20                                 | 87.41  | -      | -      |       |        |       |        |
| Mod.      | 64QAM                                 | 256QAM | 64QAM  | 256QAM |       |        |       |        |
| Middle CH | 87.39                                 | 87.45  | -      | -      |       |        |       |        |

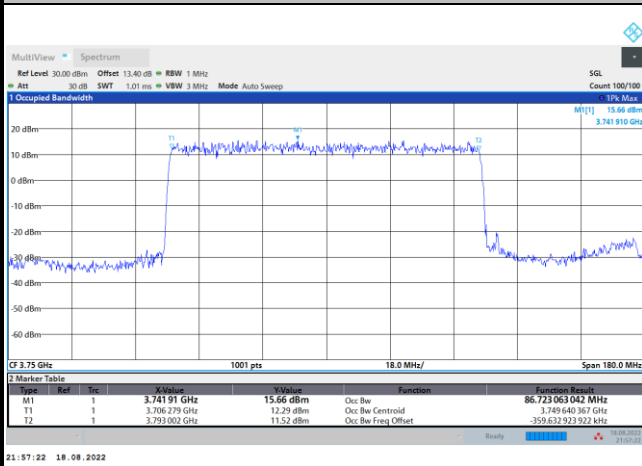
**FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / Middle Channel / Full RB**
**PI/2 BPSK**

**FR1 n78 (HPUE) / 50MHz / CP OFDM / Middle Channel / Full RB**
**QPSK**

**16QAM**

**64QAM**

**256QAM**


**FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / Middle Channel / Full RB**
**PI/2 BPSK**

**FR1 n78 (HPUE) / 70MHz / CP OFDM / Middle Channel / Full RB**
**QPSK**

**16QAM**

**64QAM**

**256QAM**




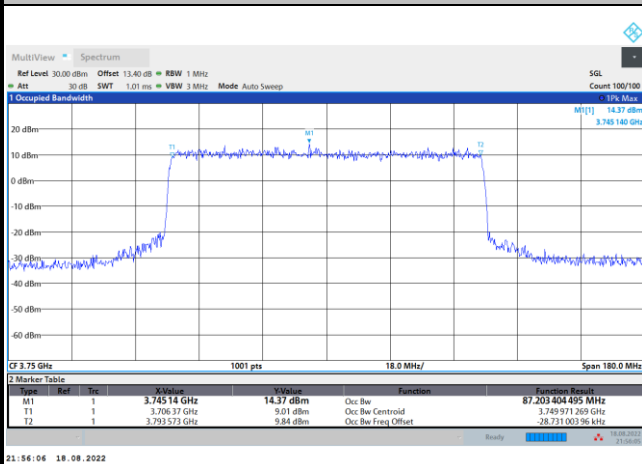
## FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / Middle Channel / Full RB

## PI/2 BPSK

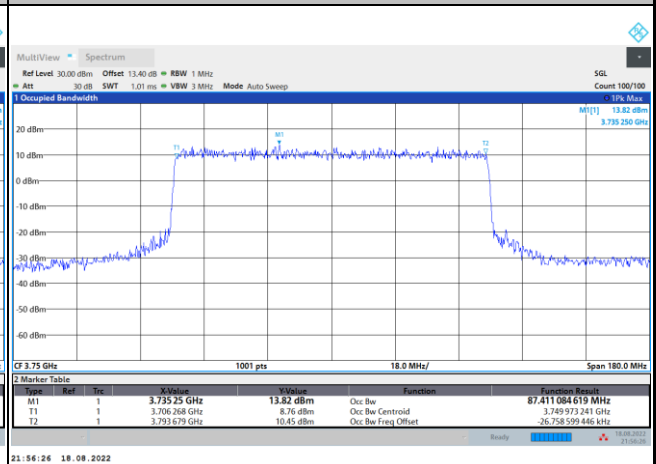


## FR1 n78 (HPUE) / 90MHz / CP OFDM / Middle Channel / Full RB

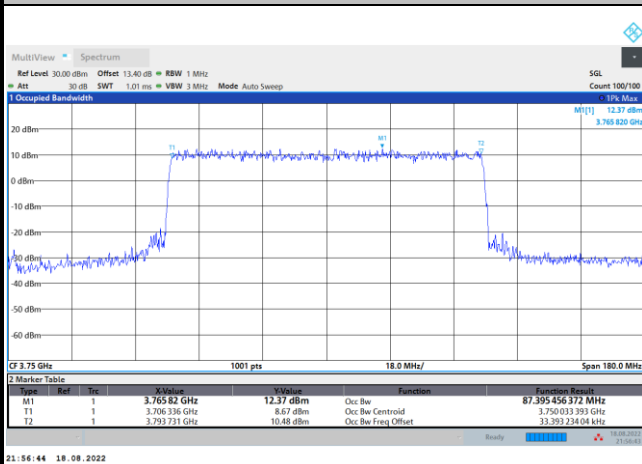
## QPSK



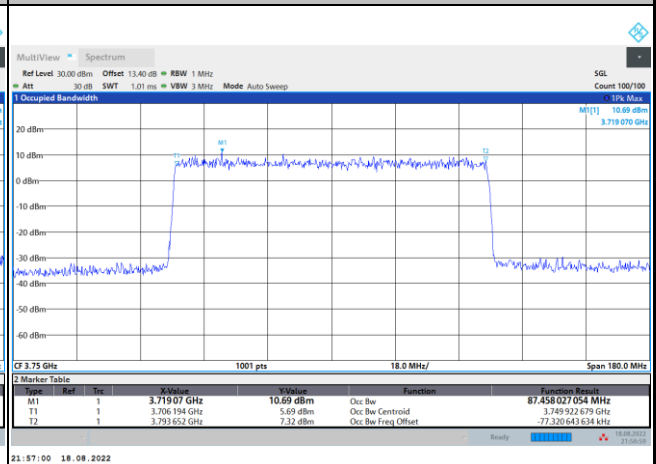
## 16QAM

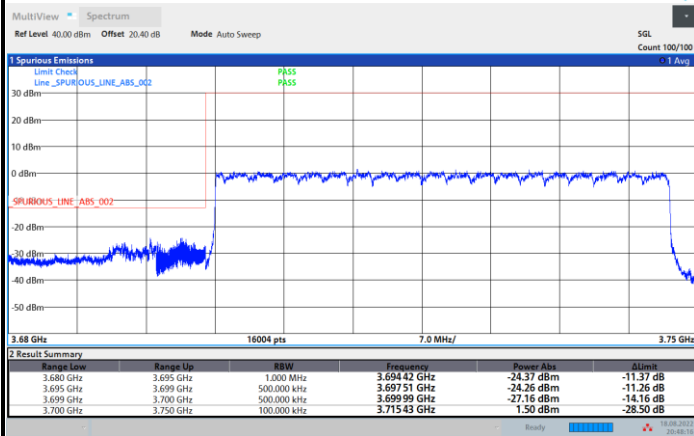


## 64QAM

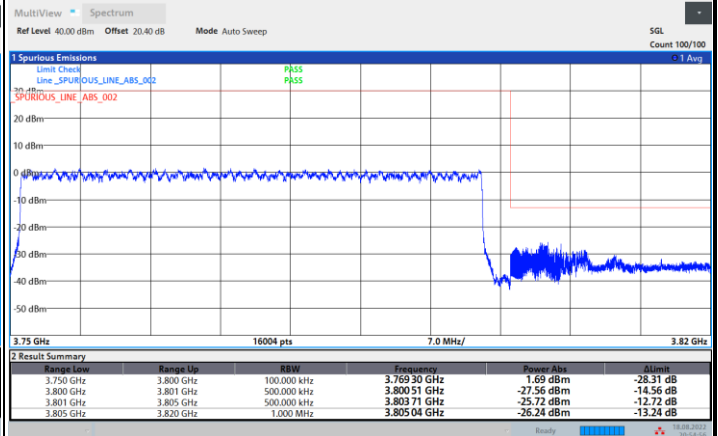


## 256QAM

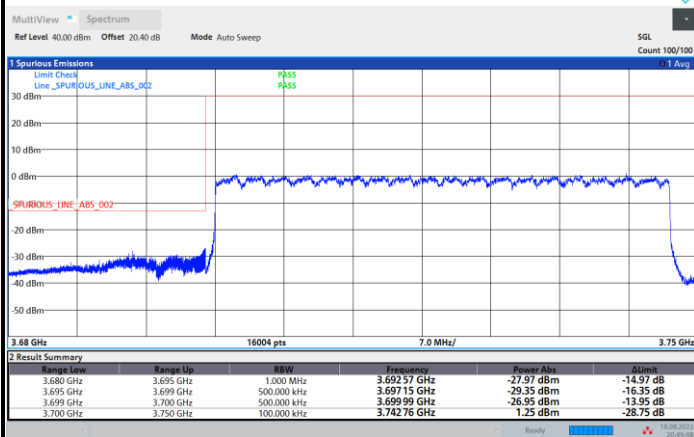


**Conducted Band Edge****FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / Full RB**

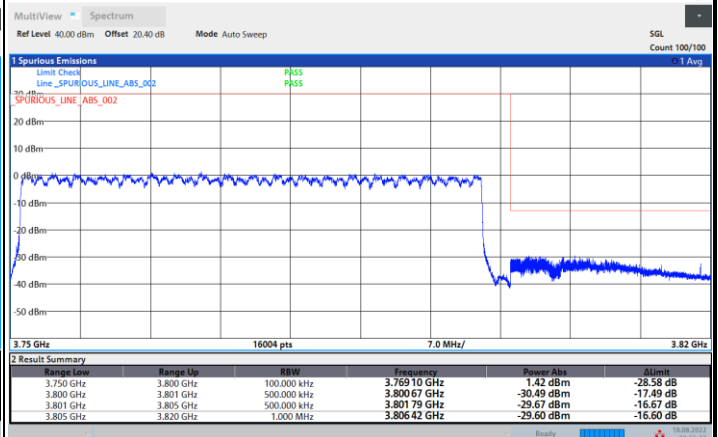
20:48:17 18.08.2022

**Highest Band Edge / Full RB**

20:54:56 18.08.2022

**FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / QPSK****Lowest Band Edge / Full RB**

20:49:09 18.08.2022

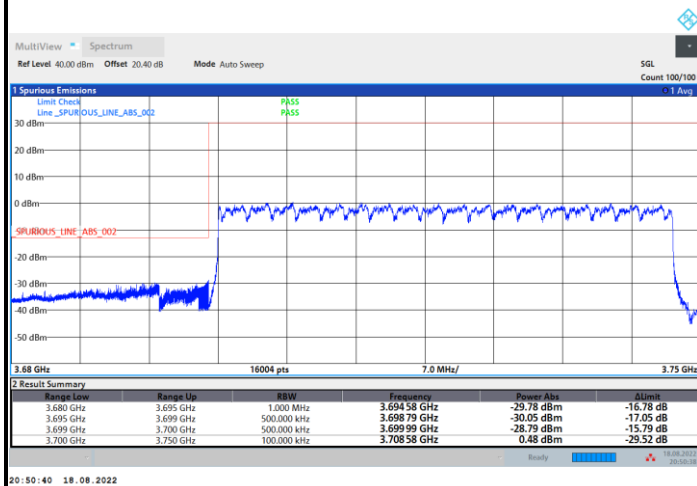
**Highest Band Edge / Full RB**

20:55:27 18.08.2022



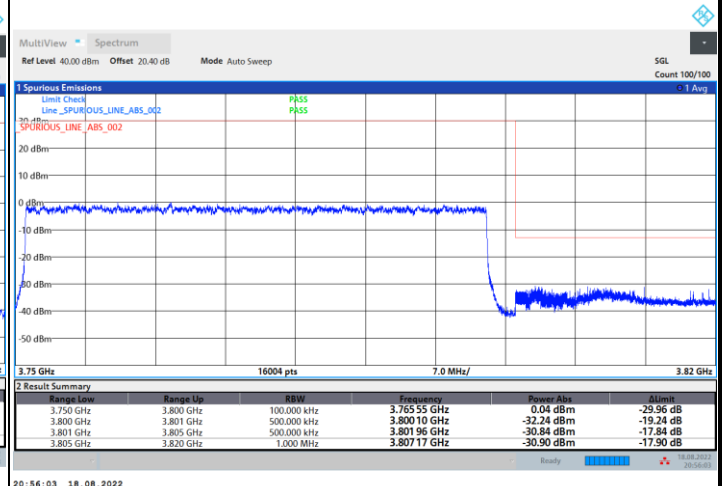
## FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB



20:50:40 18.08.2022

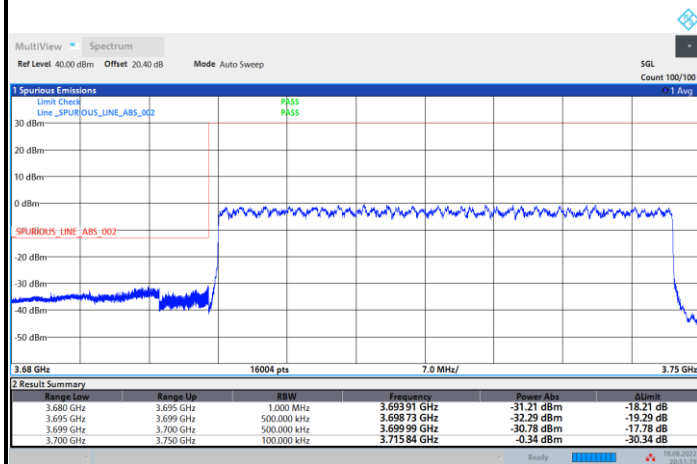
## Highest Band Edge / Full RB



20:56:03 18.08.2022

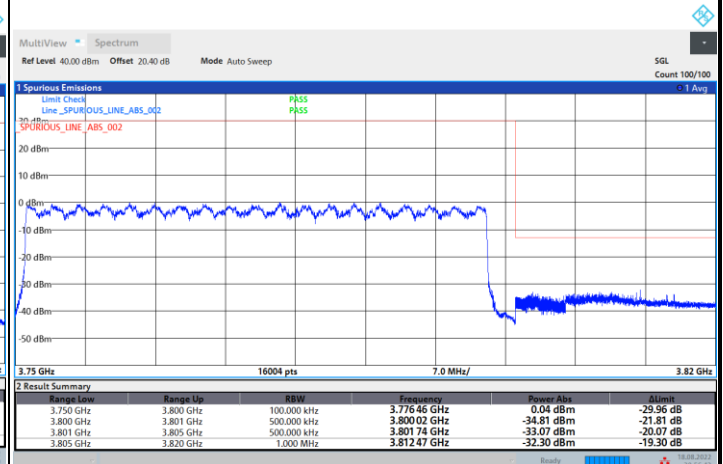
## FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



20:51:20 18.08.2022

## Highest Band Edge / Full RB

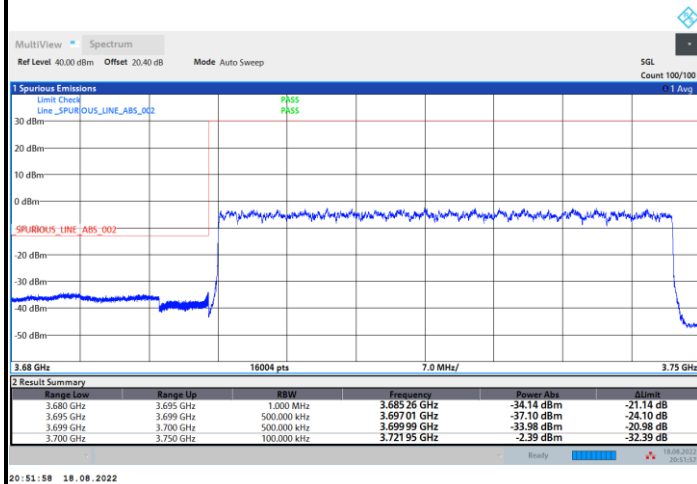


20:56:42 18.08.2022



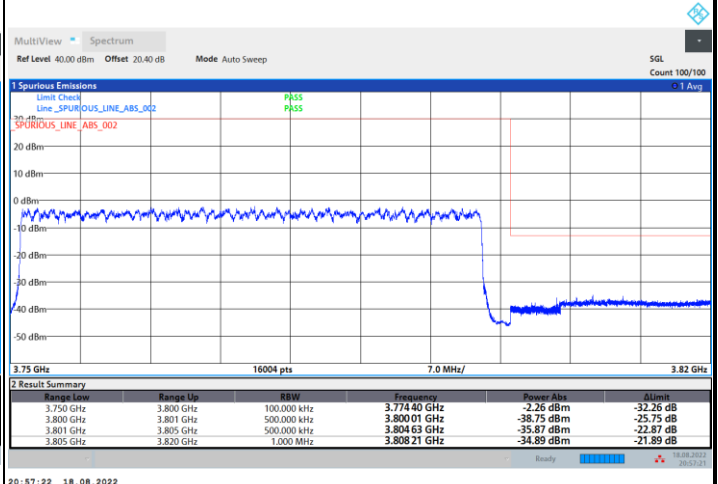
## FR1 n78 (HPUE) / 50MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB



20:51:58 18.08.2022

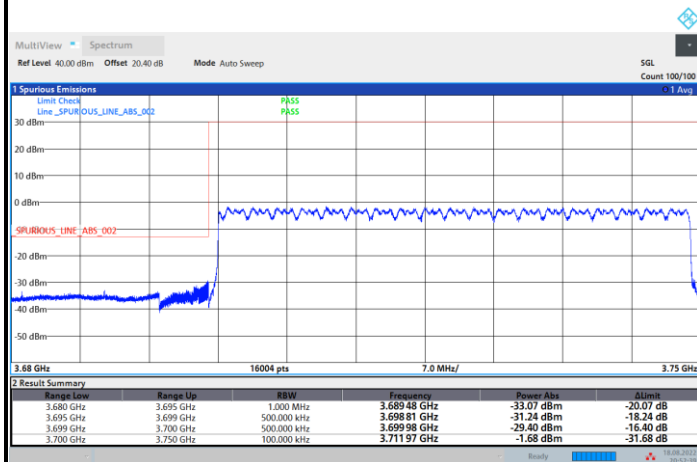
## Highest Band Edge / Full RB



20:57:22 18.08.2022

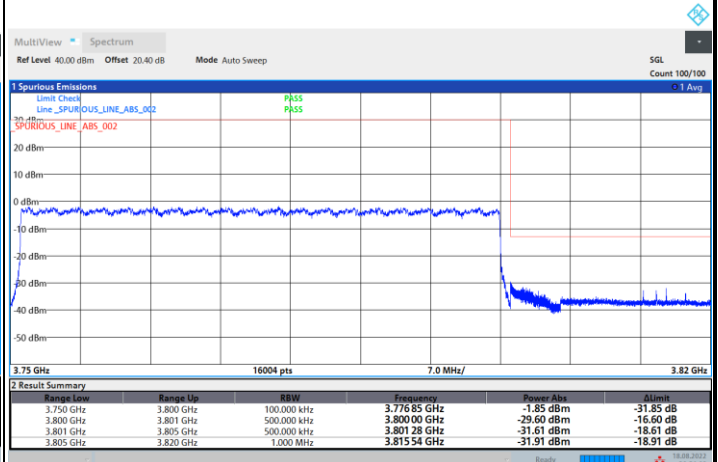
## FR1 n78 (HPUE) / 50MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



20:52:40 18.08.2022

## Highest Band Edge

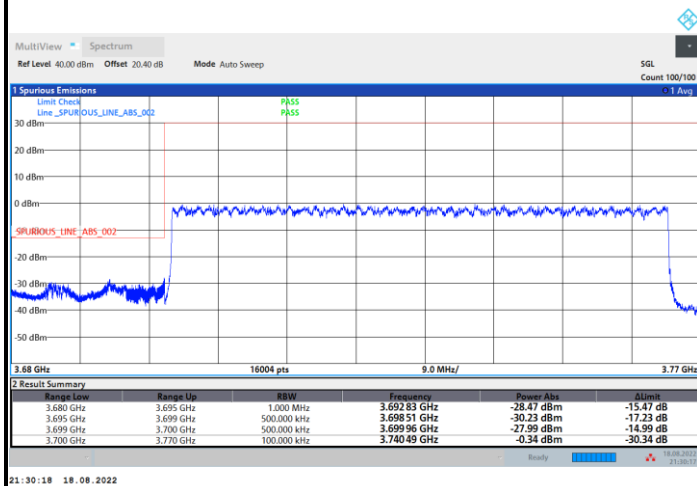


20:54:08 18.08.2022



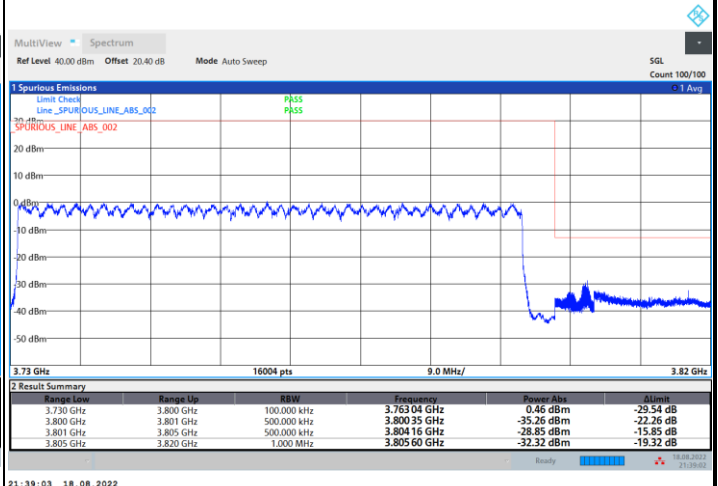
## FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



21:30:18 18.08.2022

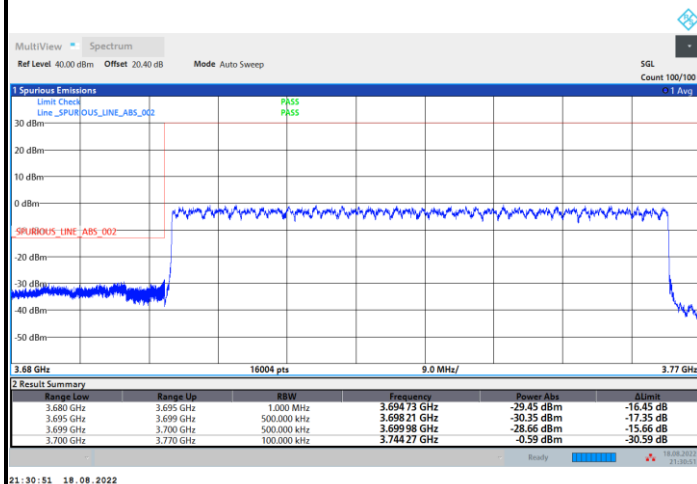
## Highest Band Edge / Full RB



21:39:03 18.08.2022

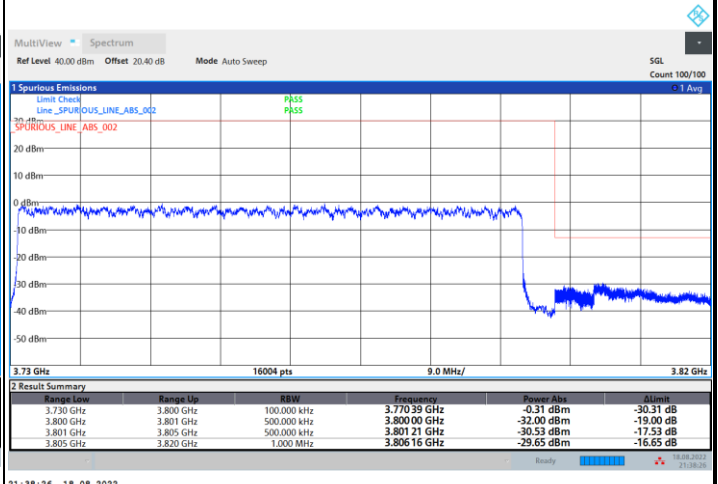
## FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



21:30:51 18.08.2022

## Highest Band Edge / Full RB

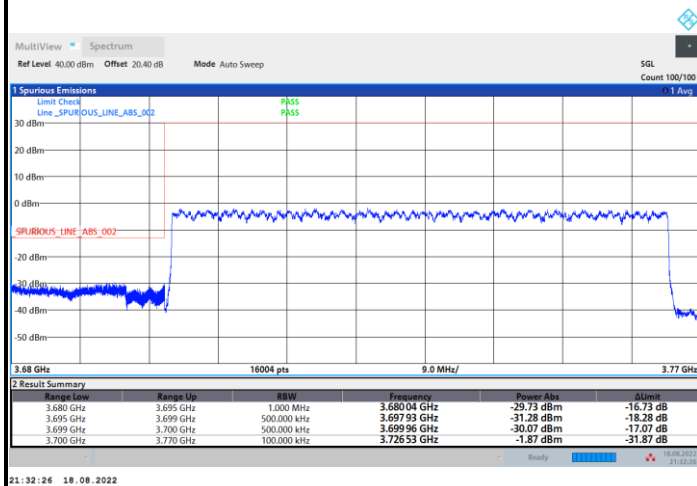


21:38:26 18.08.2022



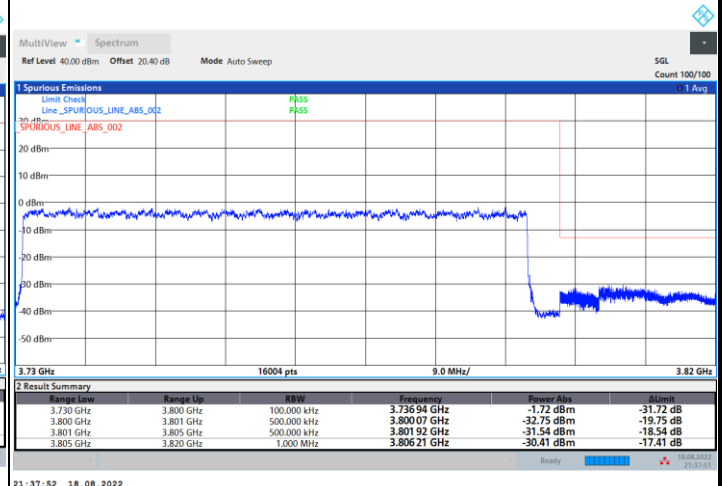
## FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / 16QAM

## Lowest Band Edge / Full RB



21:32:26 18.08.2022

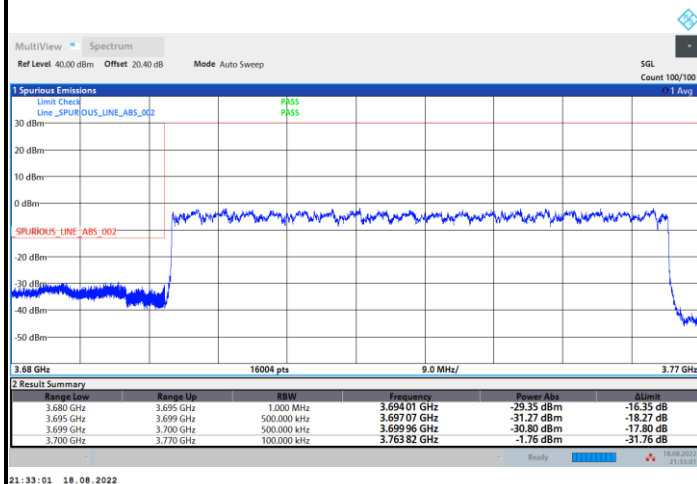
## Highest Band Edge / Full RB



21:37:52 18.08.2022

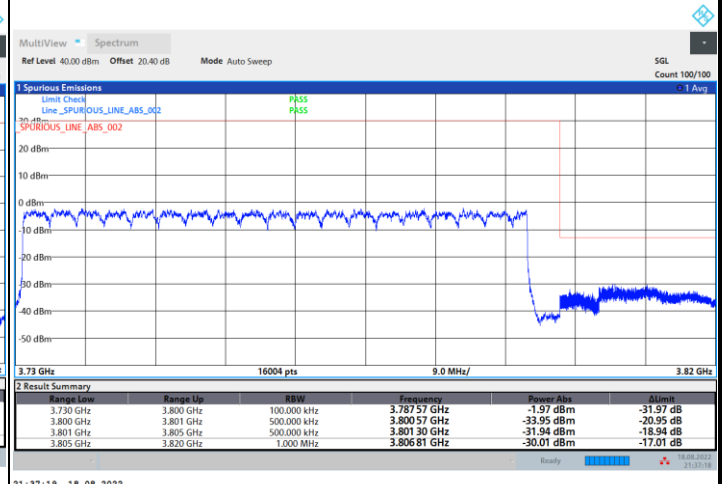
## FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / 64QAM

## Lowest Band Edge / Full RB



21:33:01 18.08.2022

## Highest Band Edge / Full RB

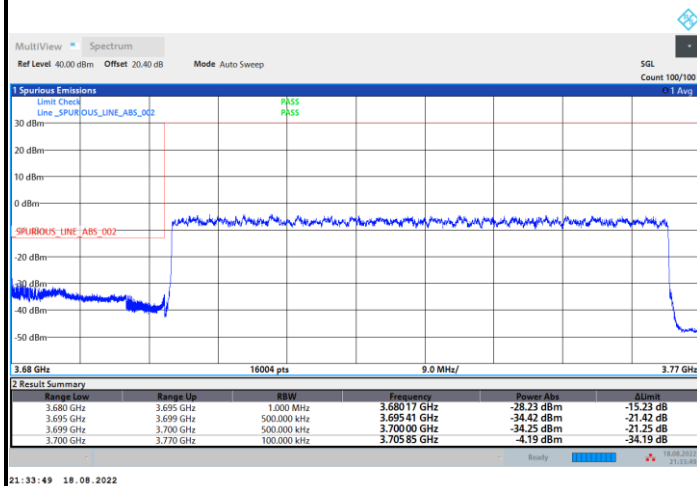


21:37:19 18.08.2022

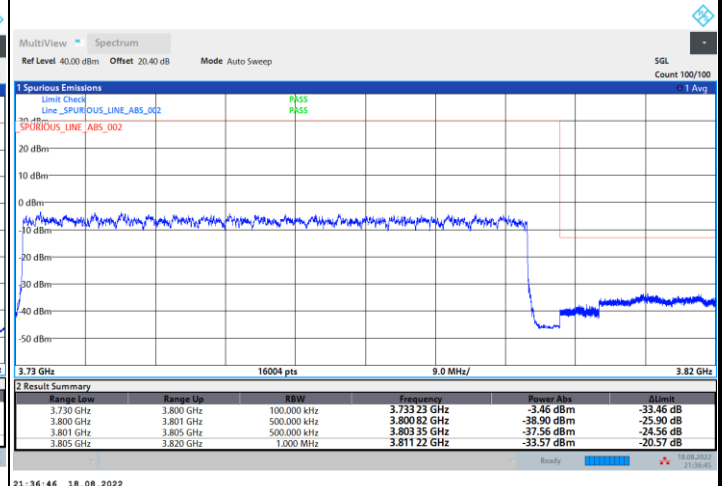


## FR1 n78 (HPUE) / 70MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB

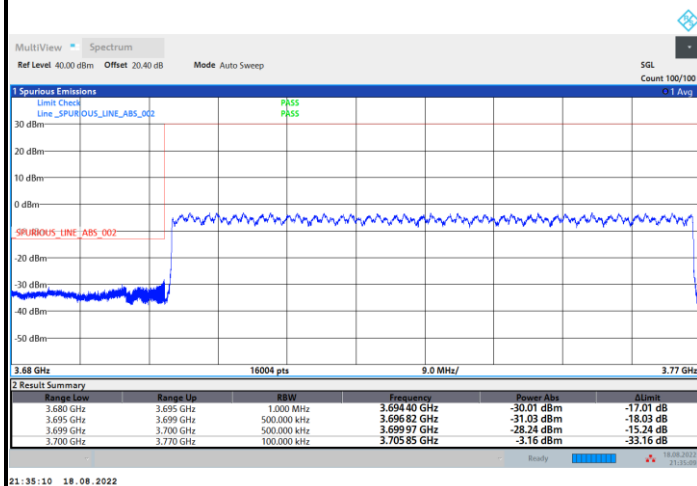


## Highest Band Edge / Full RB

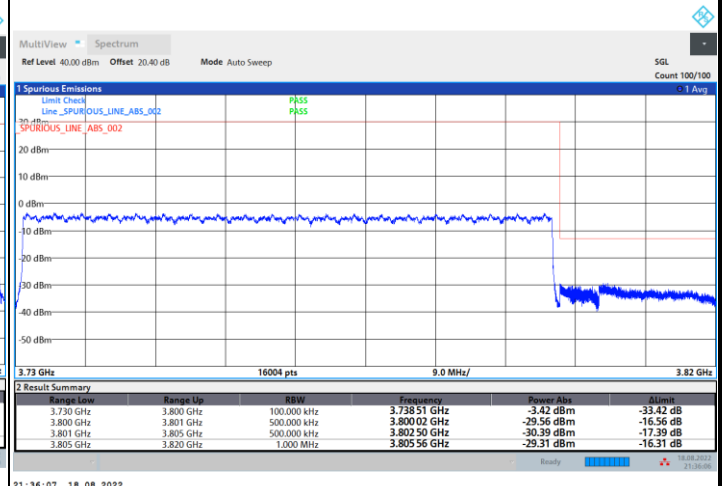


## FR1 n78 (HPUE) / 70MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



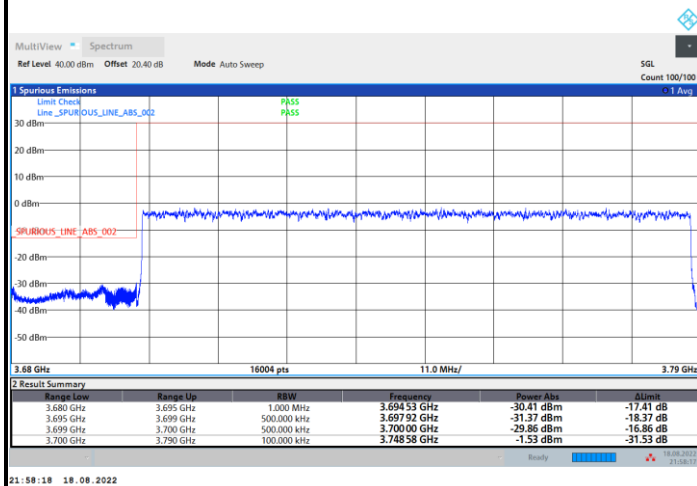
## Highest Band Edge





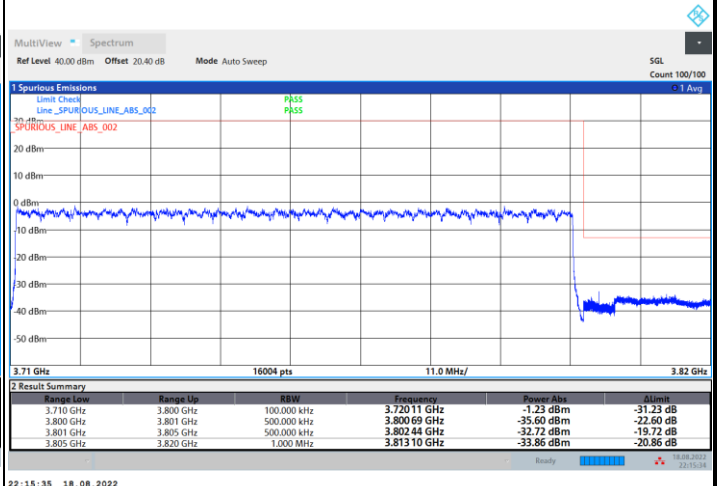
## FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / PI/2 BPSK

## Lowest Band Edge / Full RB



21:58:18 18.08.2022

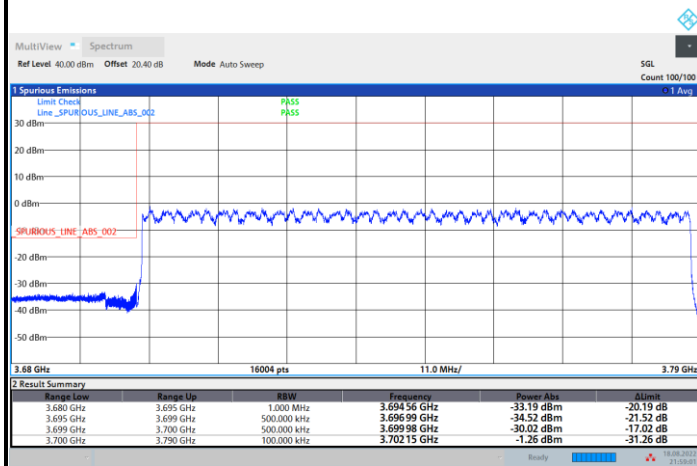
## Highest Band Edge / Full RB



22:15:35 18.08.2022

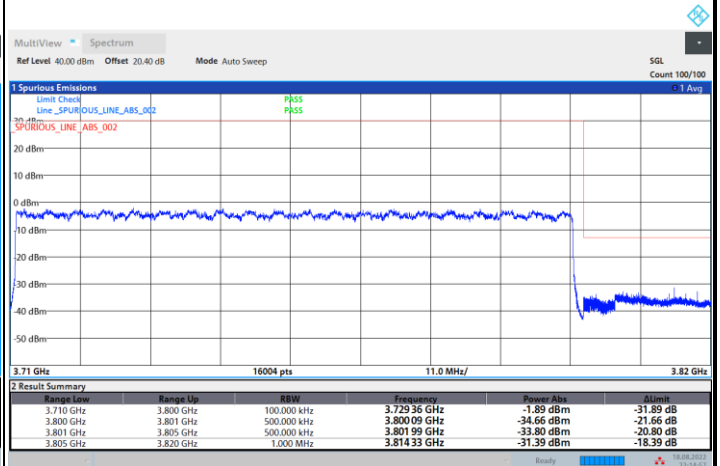
## FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / QPSK

## Lowest Band Edge / Full RB



21:59:01 18.08.2022

## Highest Band Edge / Full RB

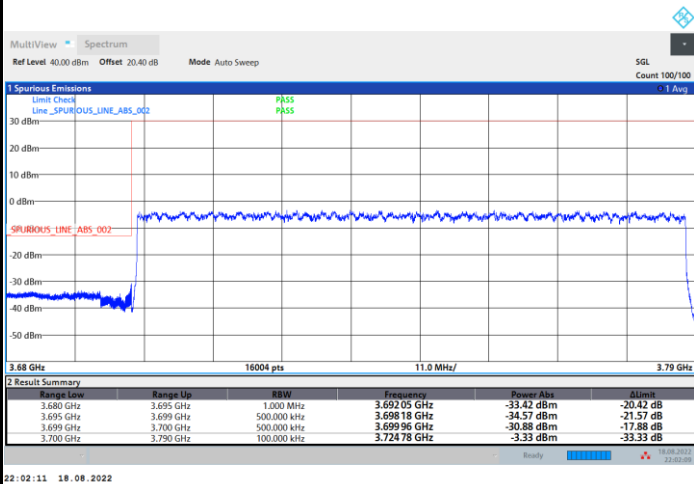


22:14:58 18.08.2022



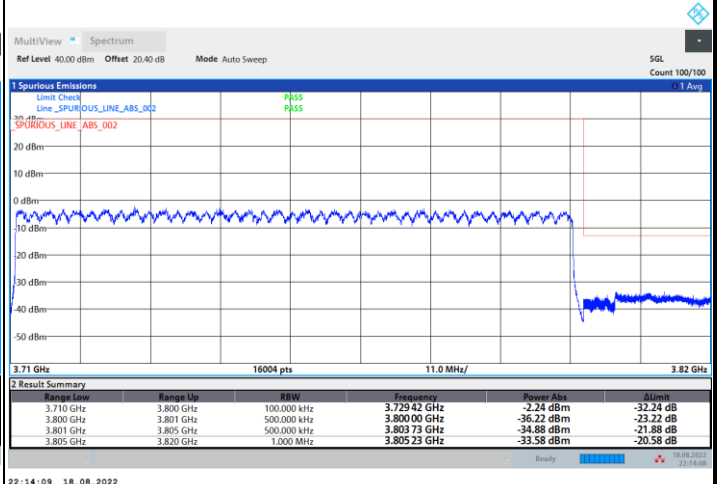
**FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / 16QAM**

### Lowest Band Edge / Full RB



22:02:11 18.08.2022

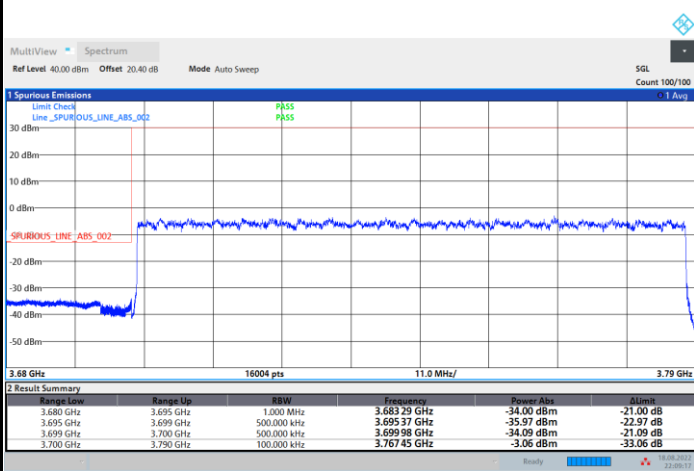
### Highest Band Edge / Full RB



22:14:09 18.08.2022

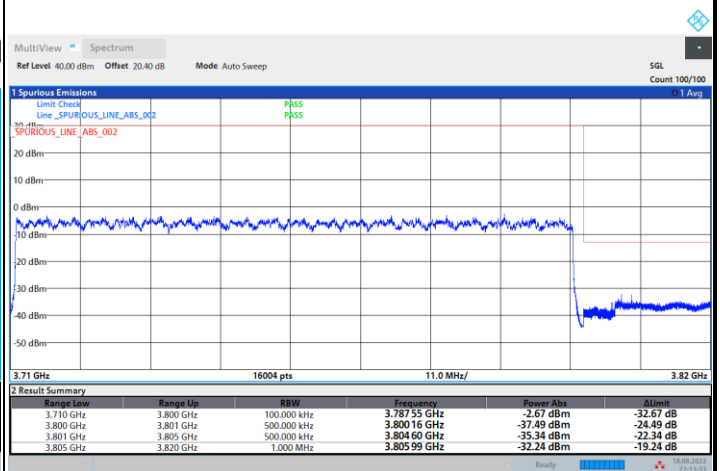
**FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / 64QAM**

### Lowest Band Edge / Full RB



22:09:18 18.08.2022

### Highest Band Edge / Full RB

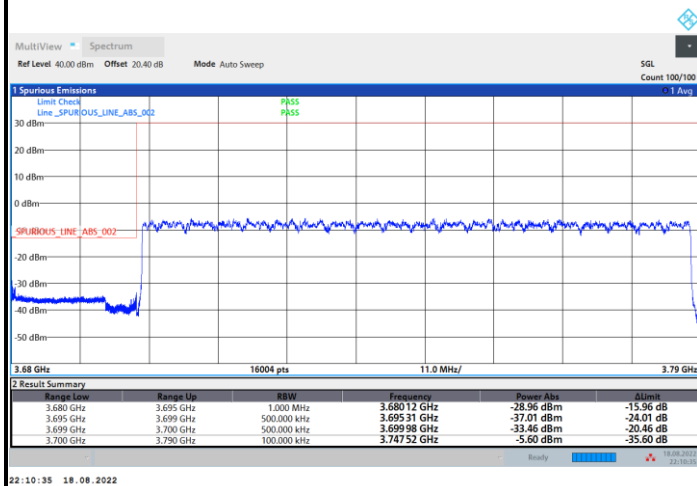


22:13:34 18.08.2022



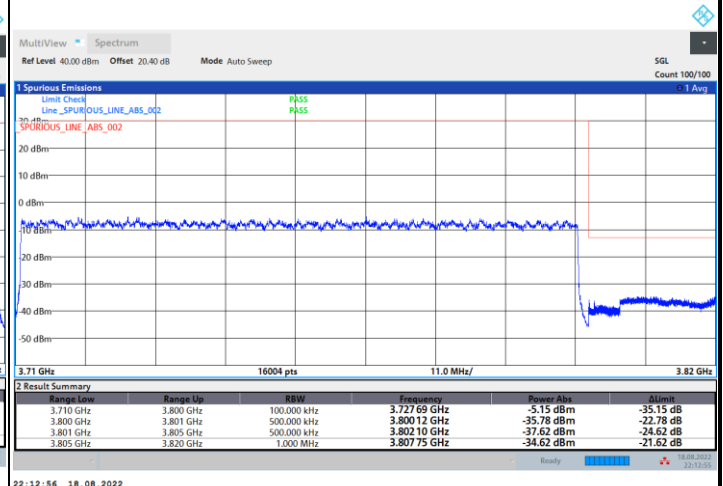
## FR1 n78 (HPUE) / 90MHz / DFT-S OFDM / 256QAM

## Lowest Band Edge / Full RB



22:10:35 18.08.2022

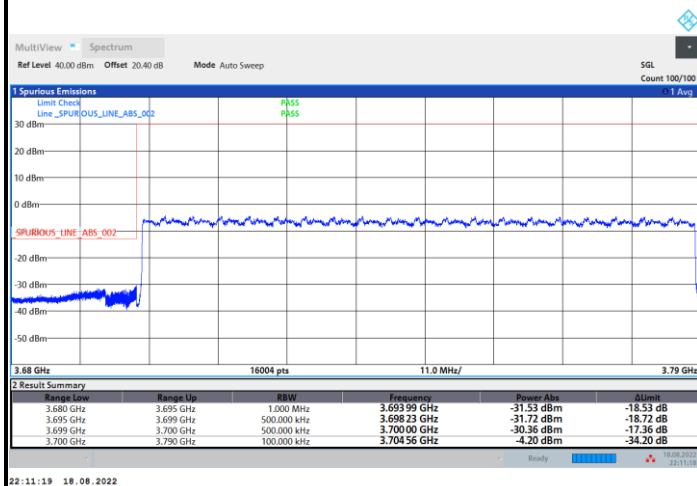
## Highest Band Edge / Full RB



22:12:56 18.08.2022

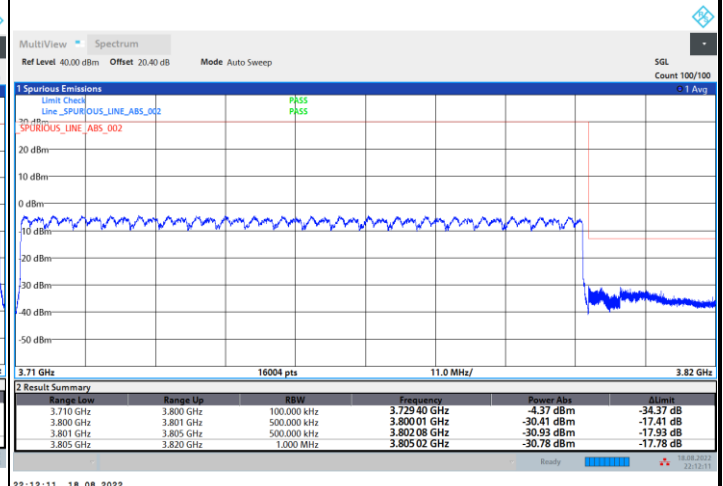
## FR1 n78 (HPUE) / 90MHz / CP OFDM / QPSK / Full RB

## Lowest Band Edge



22:11:19 18.08.2022

## Highest Band Edge



22:12:11 18.08.2022



&lt;MIMO Mode&gt;

MIMO &lt;Ant. 1&gt;

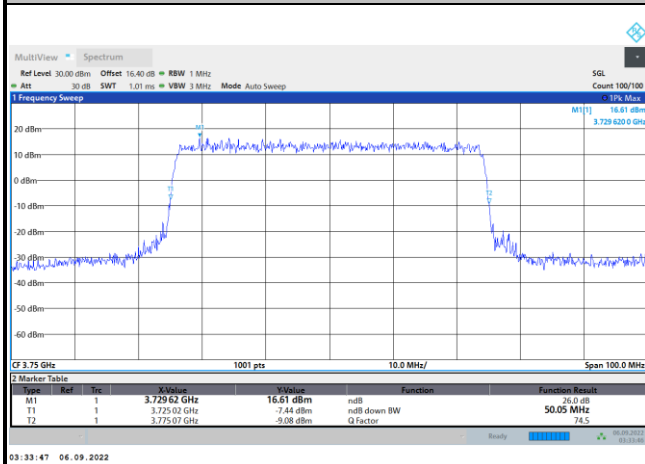
**26dB Bandwidth**

| Mode      | FR1 n78 : 26dB BW(MHz) / CP OFDM |        |       |        |       |        |        |        |
|-----------|----------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 30MHz                            |        | 40MHz |        | 50MHz |        | 60MHz  |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | -                                | -      | -     | -      | 50.05 | 49.95  | -      | -      |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | -                                | -      | -     | -      | 50.15 | 50.05  | -      | -      |
| BW        | 70MHz                            |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 70.35                            | 70.21  | -     | -      | 90.45 | 90.45  | -      | -      |
| Mod.      | 64QAM                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 70.21                            | 70.21  | -     | -      | 90.27 | 90.45  | -      | -      |

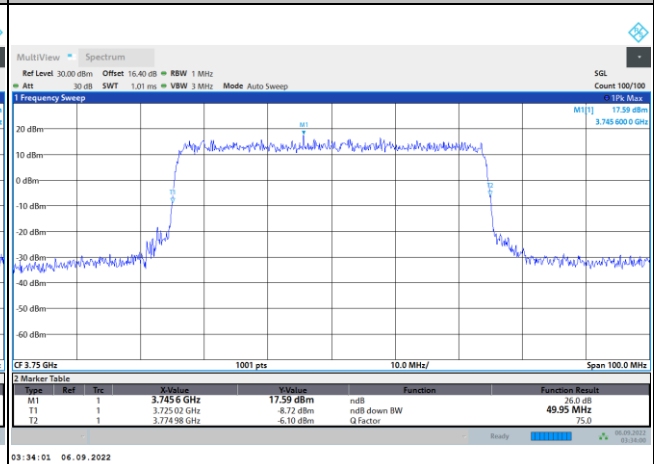


## FR1 n78 / 50MHz / CP OFDM / Middle Channel / Full RB

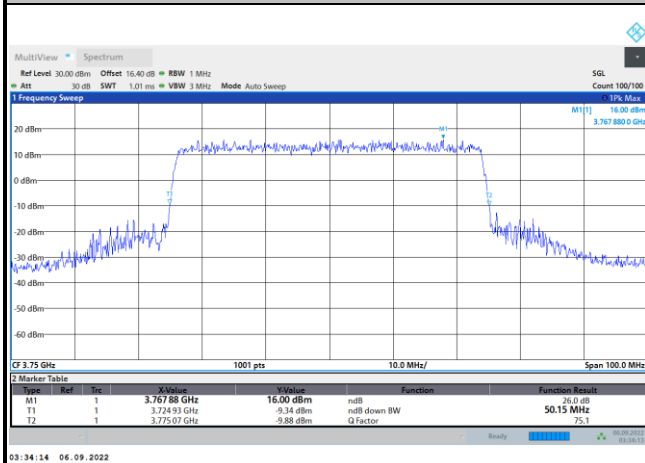
## QPSK



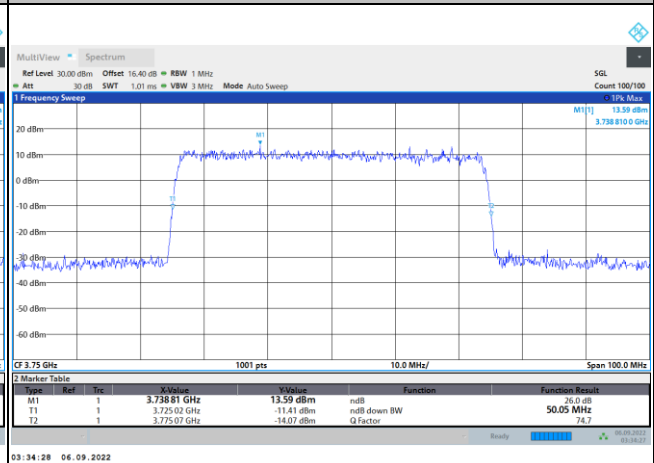
## 16QAM



## 64QAM



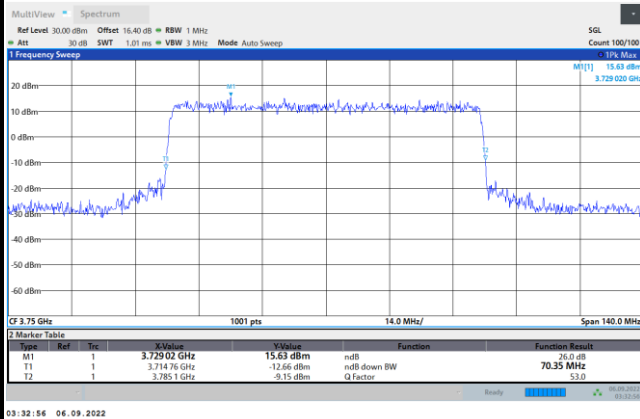
## 256QAM



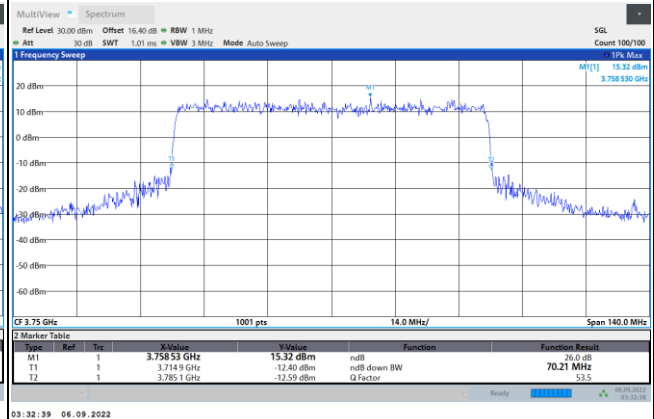


## FR1 n78 / 70MHz / CP OFDM / Middle Channel / Full RB

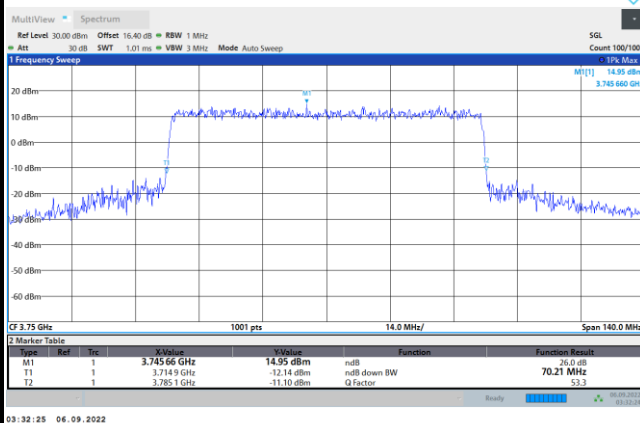
## QPSK



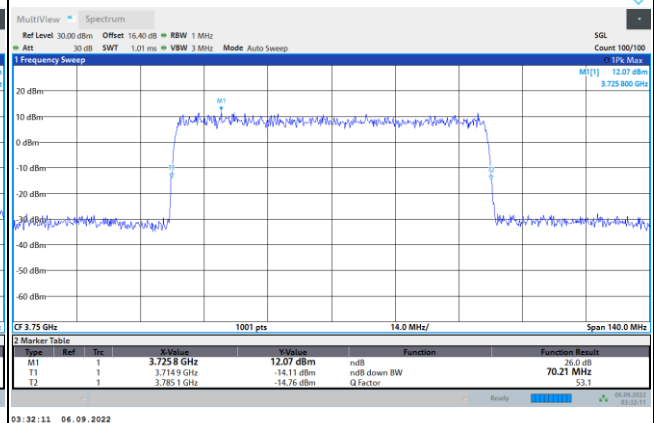
## 16QAM



## 64QAM



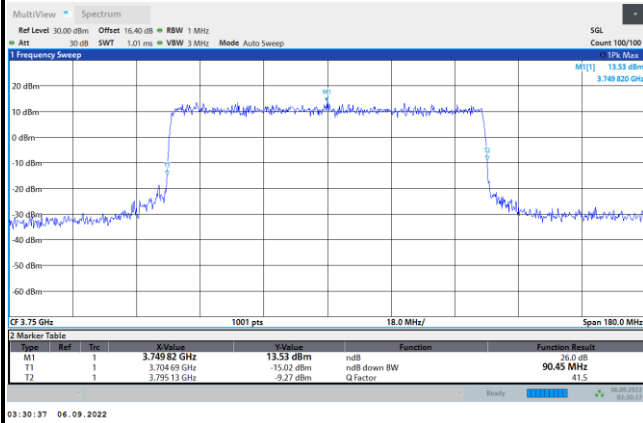
## 256QAM



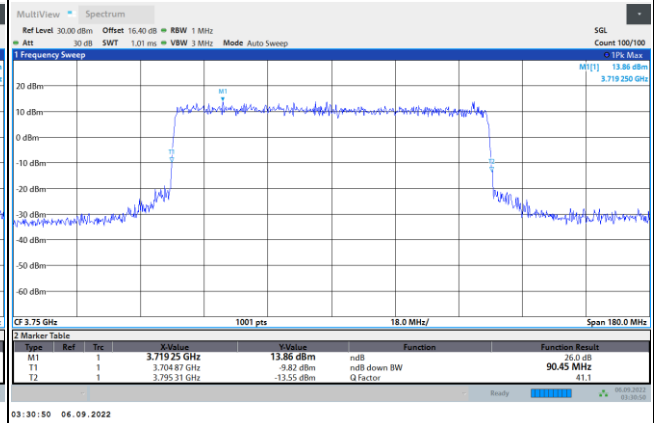


## FR1 n78 / 90MHz / CP OFDM / Middle Channel / Full RB

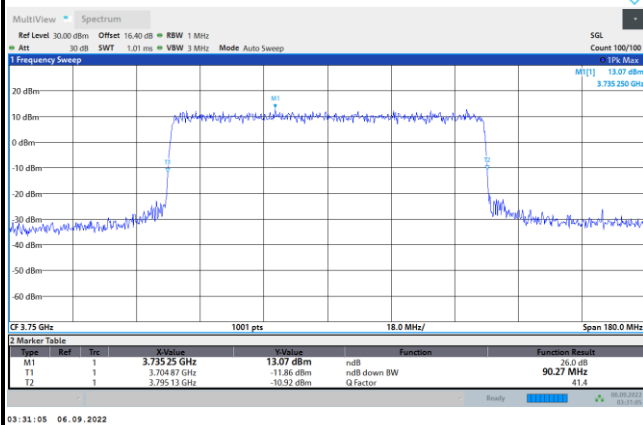
## QPSK



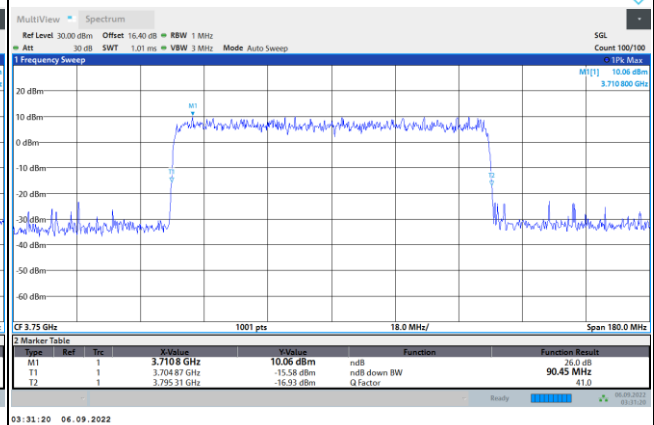
## 16QAM



## 64QAM



## 256QAM



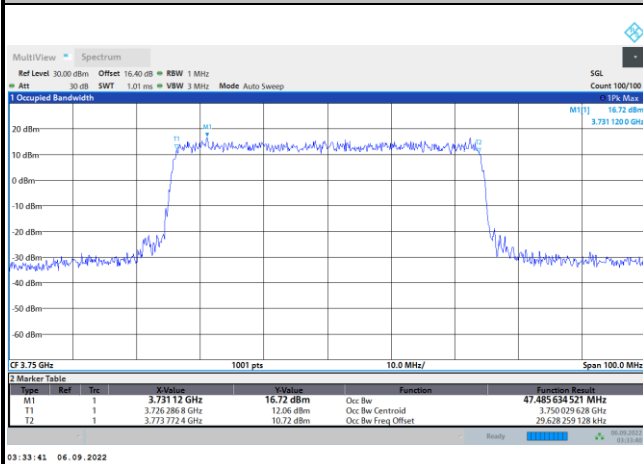
**Occupied Bandwidth**

| Mode      | FR1 n78 : OB BW(MHz) / CP OFDM |        |       |        |       |        |        |        |
|-----------|--------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 30MHz                          |        | 40MHz |        | 50MHz |        | 60MHz  |        |
| Mod.      | QPSK                           | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | -                              | -      | -     | -      | 47.48 | 47.61  | -      | -      |
| Mod.      | 64QAM                          | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | -                              | -      | -     | -      | 47.59 | 47.56  | -      | -      |
| BW        | 70MHz                          |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                           | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 67.43                          | 67.57  | -     | -      | 87.43 | 87.36  | -      | -      |
| Mod.      | 64QAM                          | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 67.50                          | 67.53  | -     | -      | 87.19 | 87.59  | -      | -      |

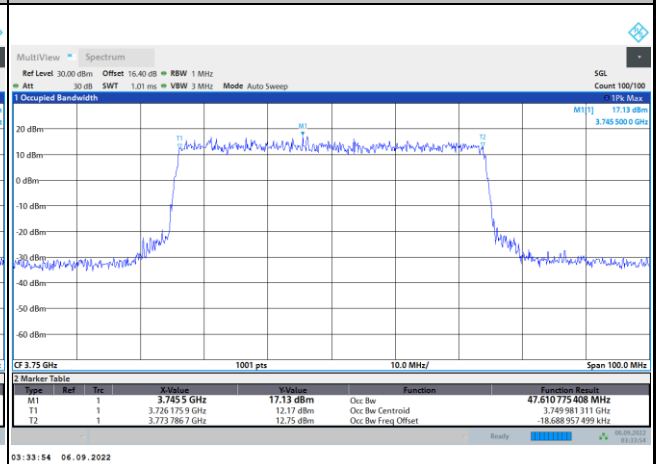


## FR1 n78 / 50MHz / CP OFDM / Middle Channel / Full RB

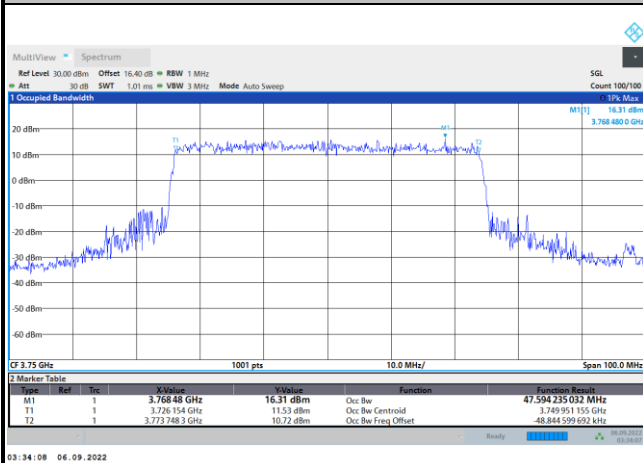
## QPSK



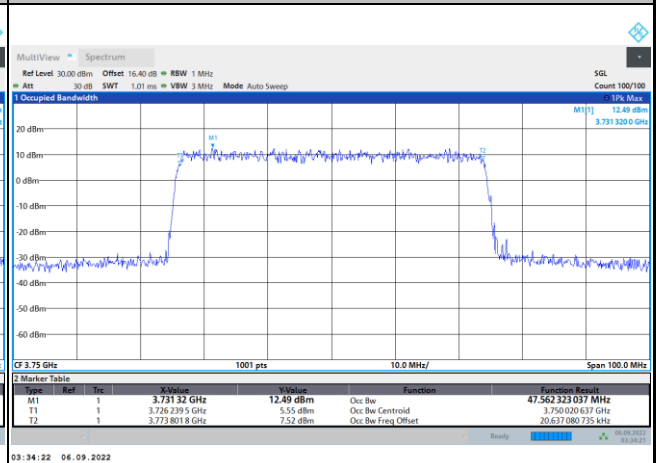
## 16QAM



## 64QAM



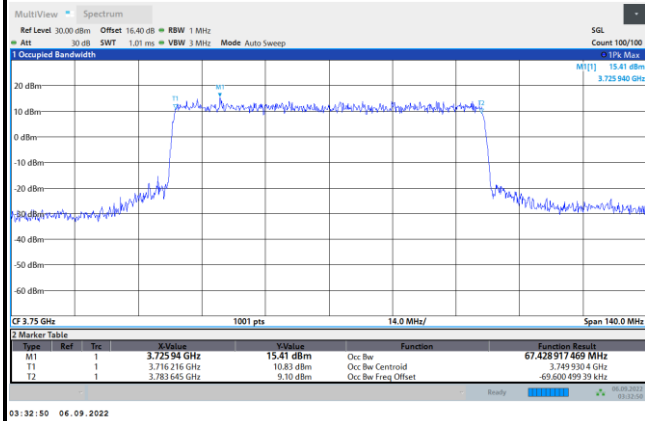
## 256QAM



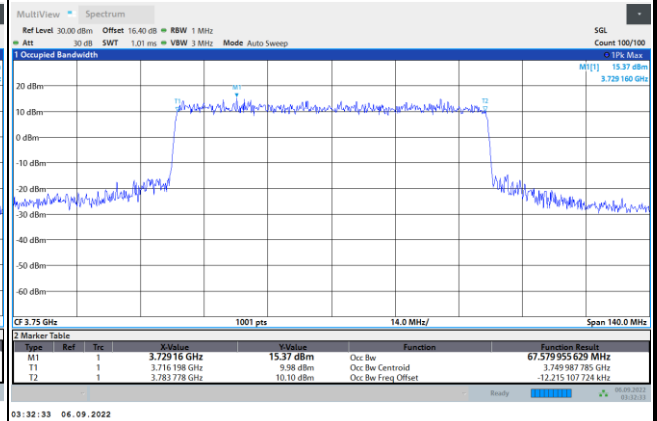


## FR1 n78 / 70MHz / CP OFDM / Middle Channel / Full RB

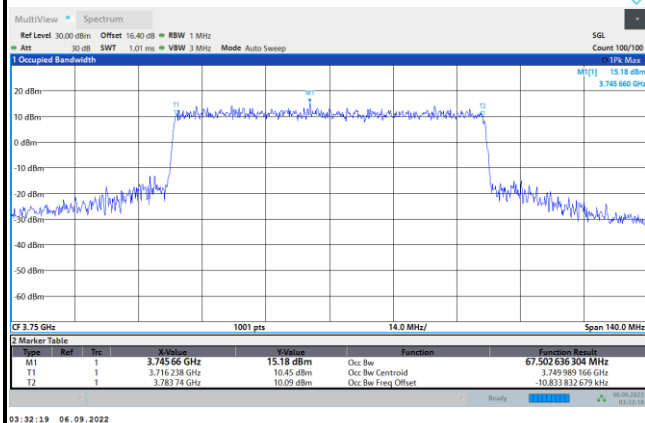
## QPSK



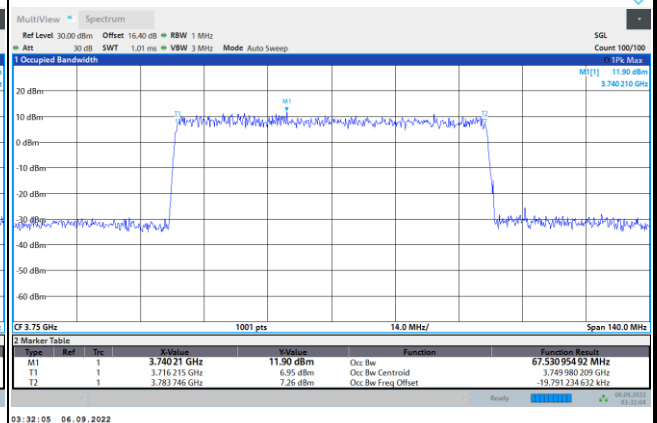
## 16QAM



## 64QAM



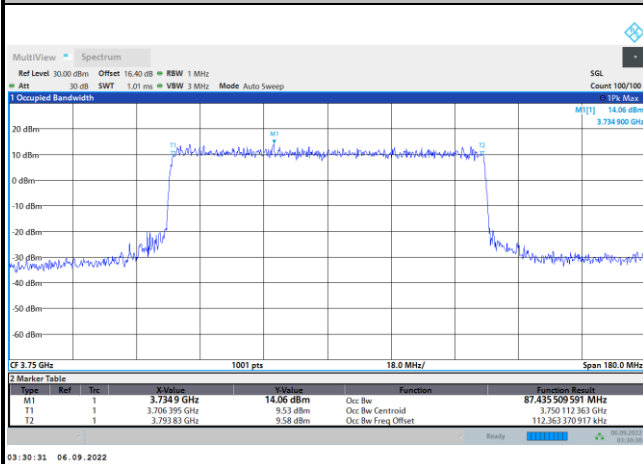
## 256QAM



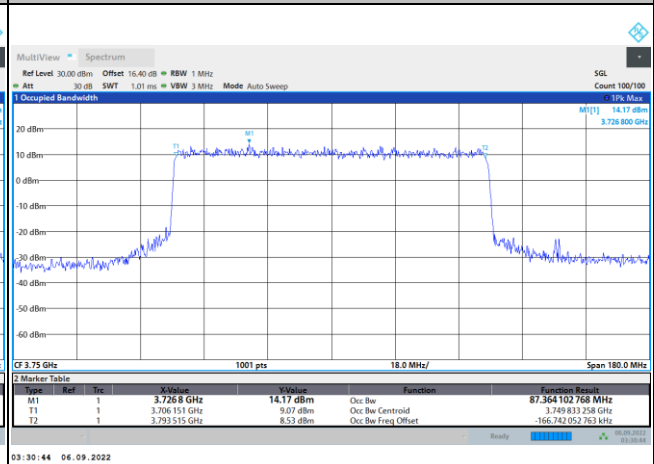


## FR1 n78 / 90MHz / CP OFDM / Middle Channel / Full RB

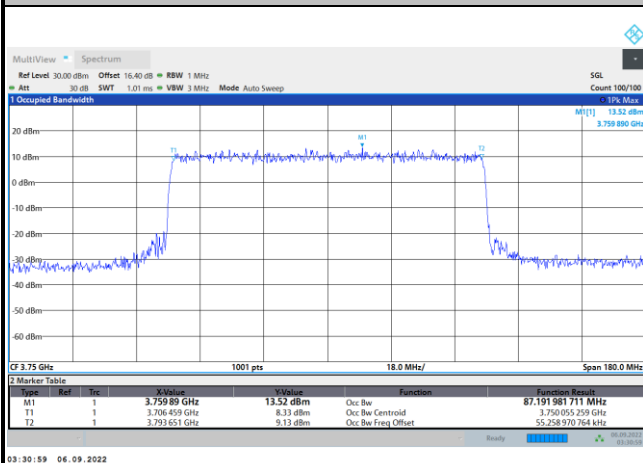
## QPSK



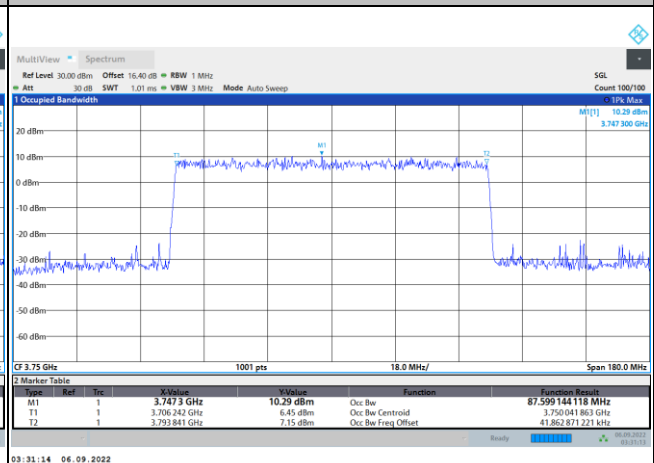
## 16QAM

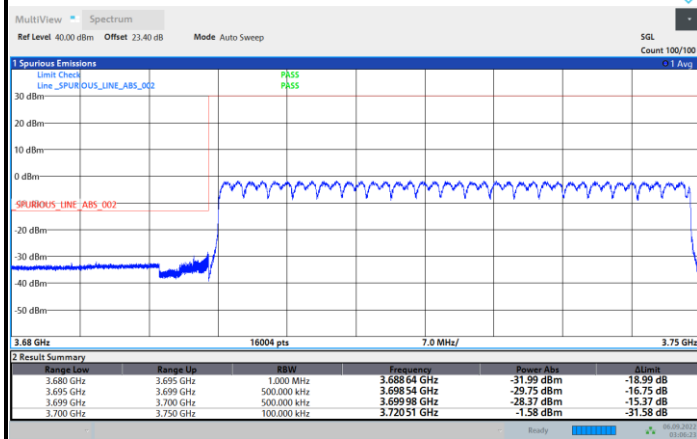
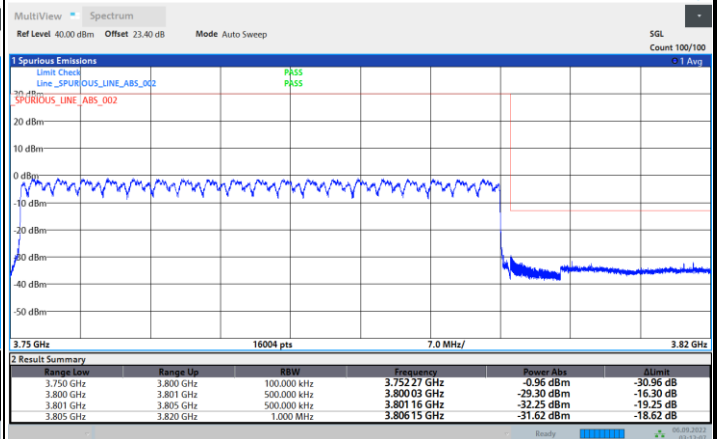
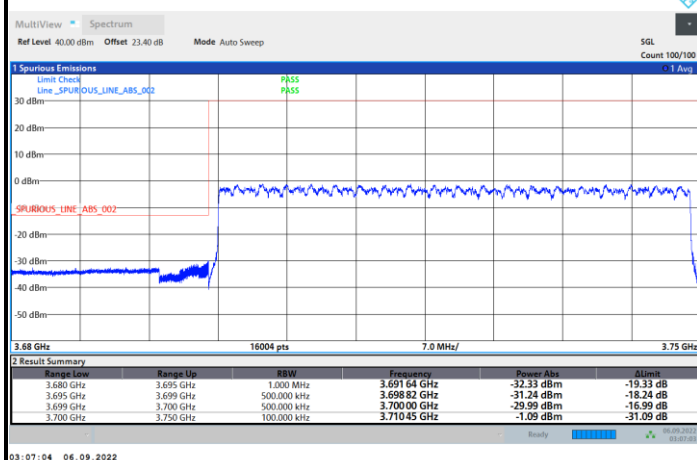


## 64QAM



## 256QAM



**Conducted Band Edge****FR1 n78 / 50MHz / CP OFDM / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n78 / 50MHz / CP OFDM / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**