

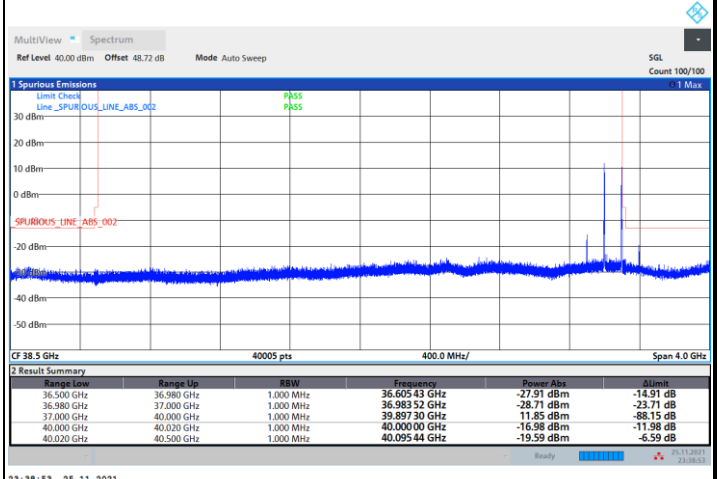
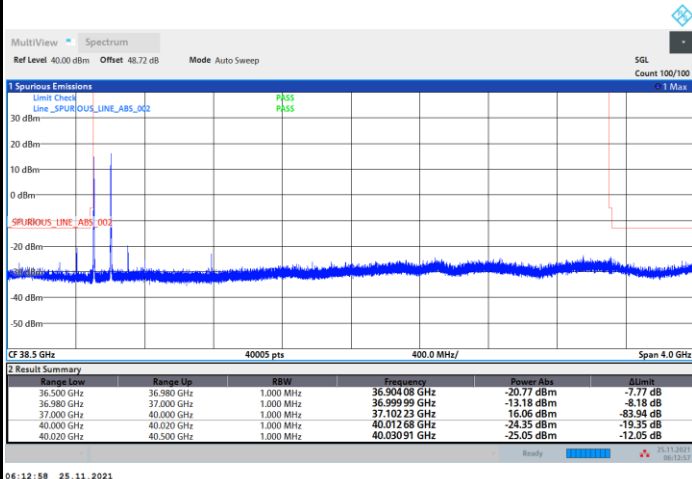


## DFT-s-OFDM Module B

## NR Band n260 / 200MHz / 64QAM

## Lowest Band Edge / 1 RB

## Highest Band Edge / 1 RB

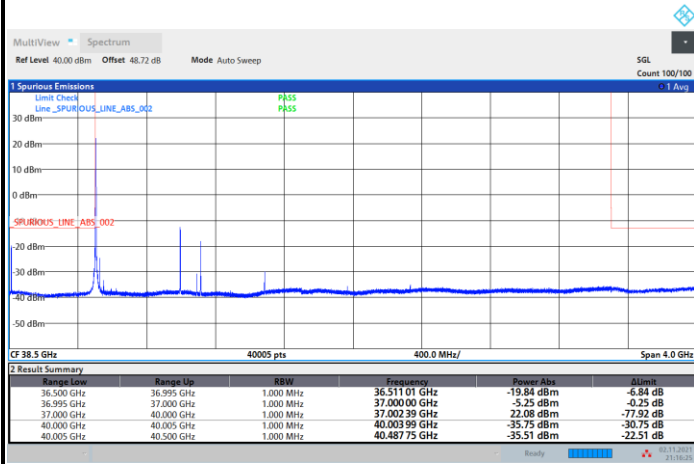




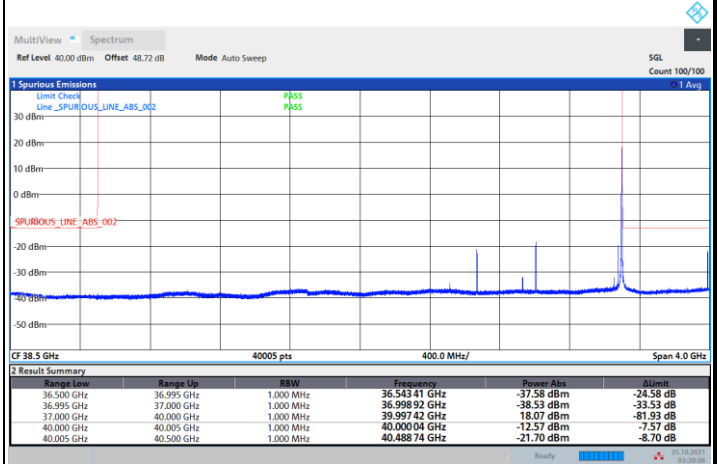
## CP-OFDM Module B

## NR Band n260 / 50MHz / QPSK

## Lowest Band Edge / 1 RB

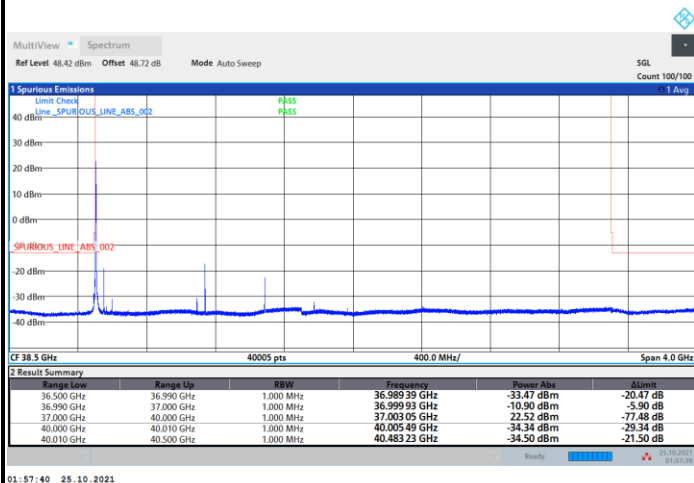


## Highest Band Edge / 1 RB

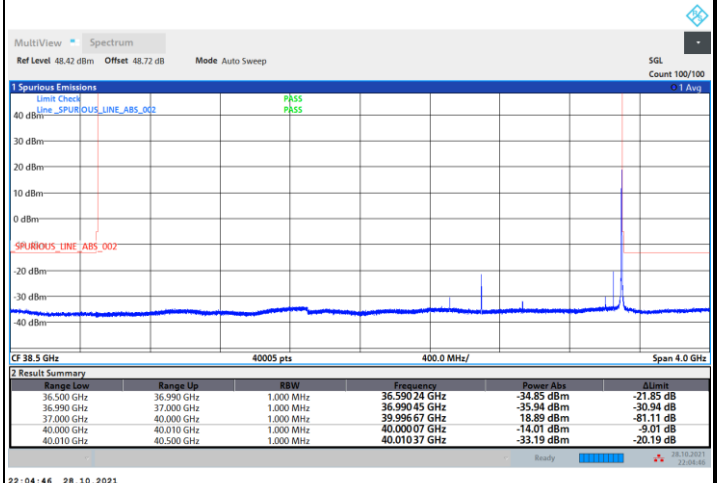


## NR Band n260 / 100MHz / QPSK

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



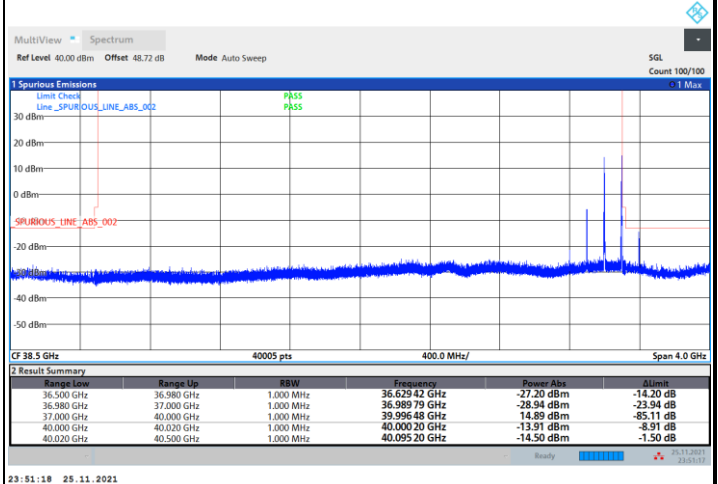
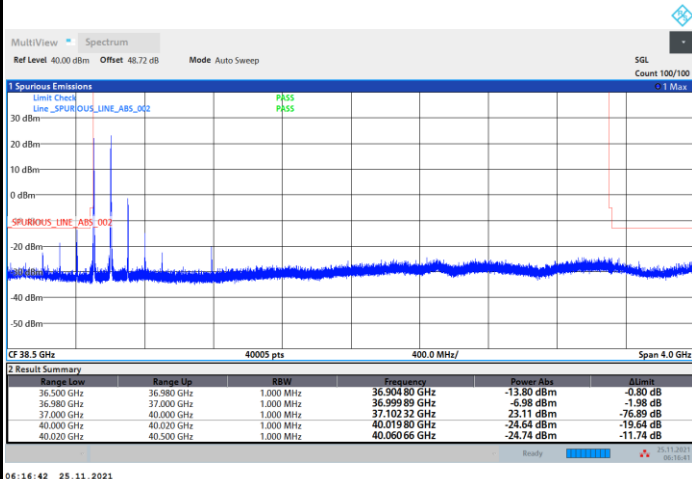


## CP-OFDM Module B

## NR Band n260 / 200MHz / QPSK

## Lowest Band Edge / 1 RB

## Highest Band Edge / 1 RB

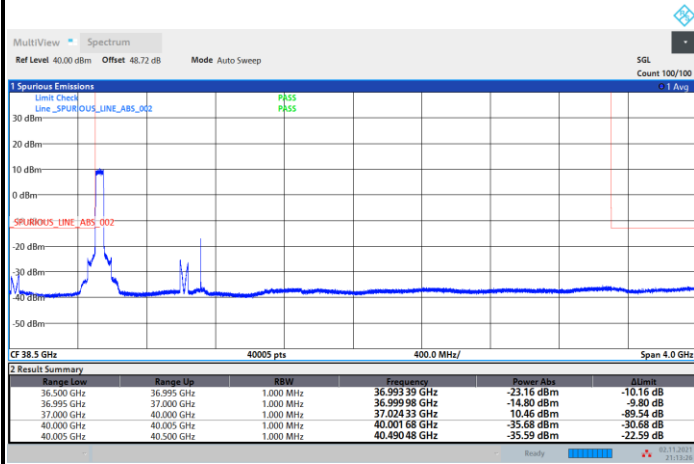




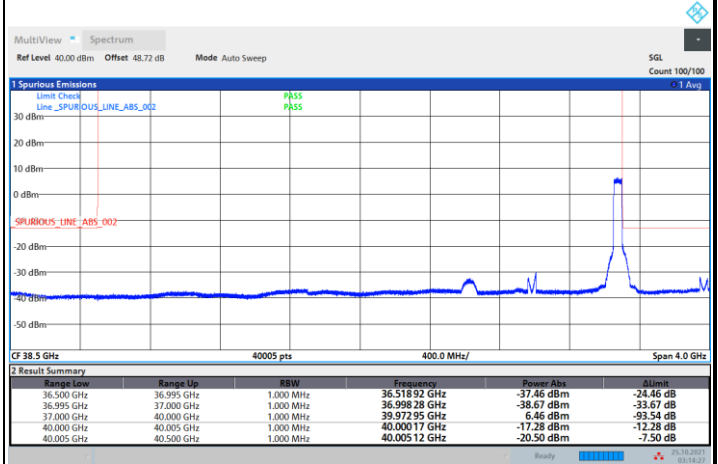
## DFT-s-OFDM Module B

## NR Band n260 / 50MHz / QPSK

## Lowest Band Edge / Full RB

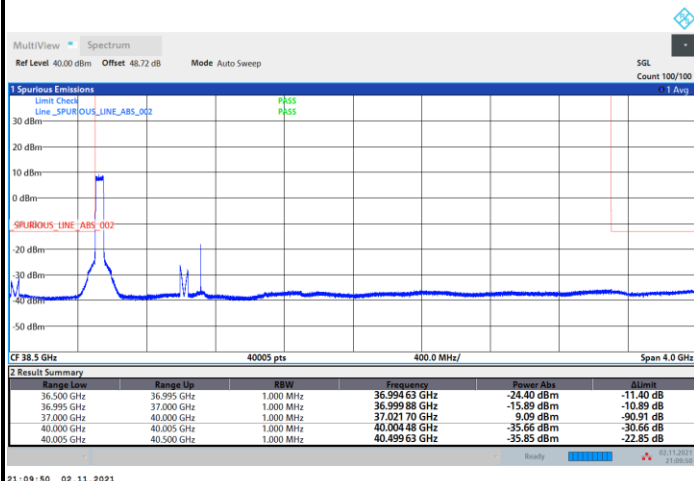


## Highest Band Edge / Full RB

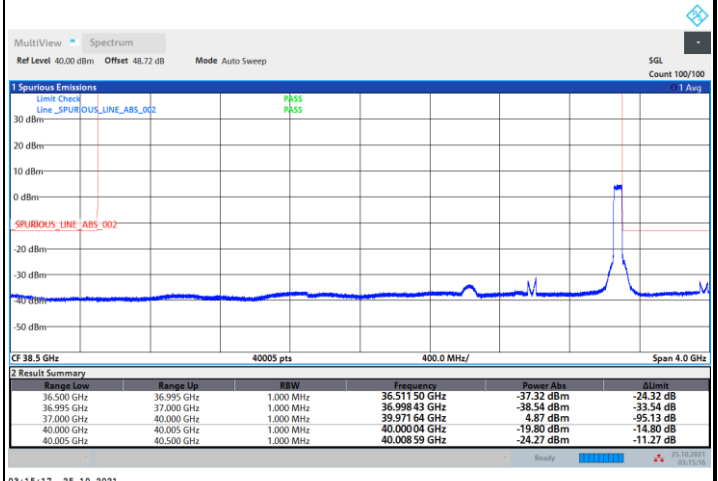


## NR Band n260 / 50MHz / 16QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

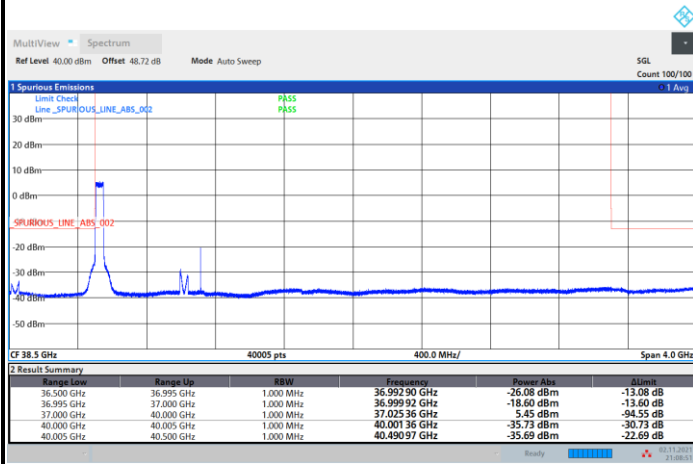




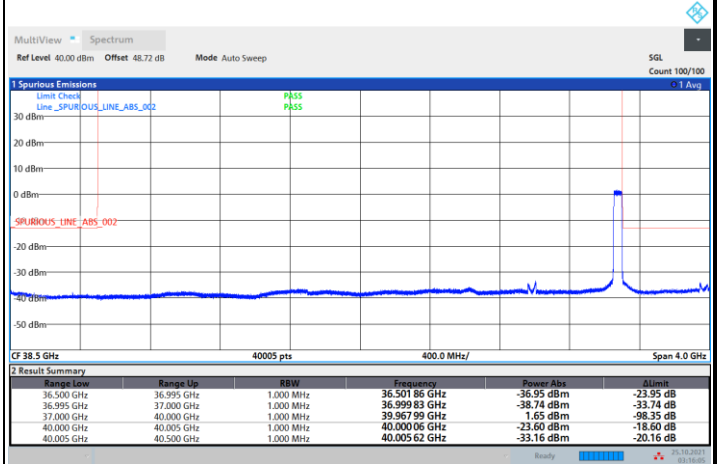
## DFT-s-OFDM Module B

## NR Band n260 / 50MHz / 64QAM

## Lowest Band Edge / Full RB

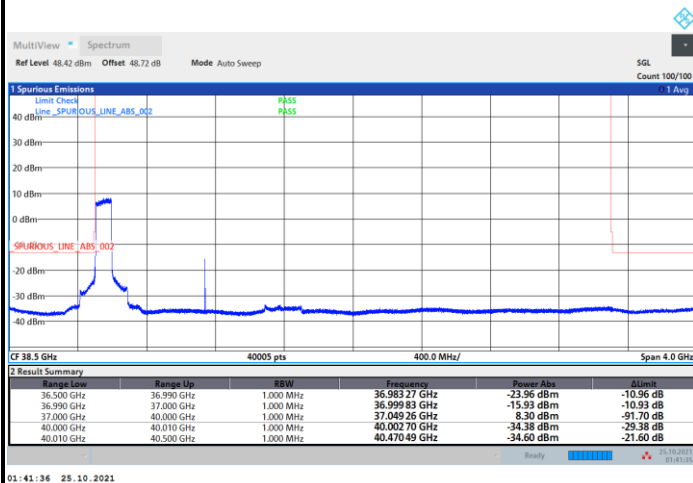


## Highest Band Edge / Full RB

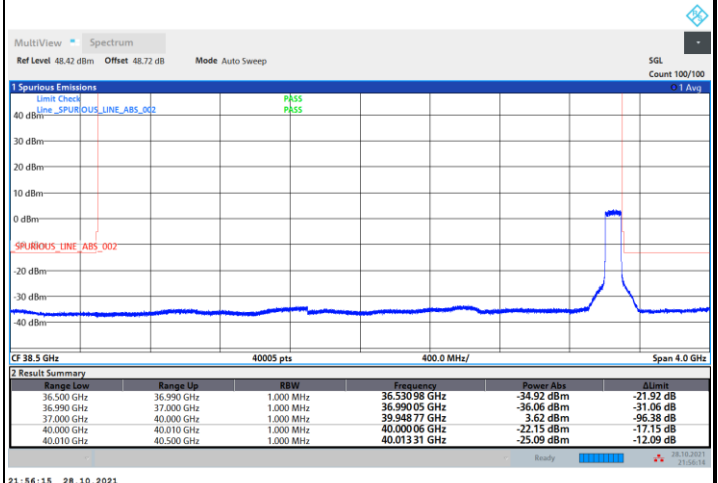


## NR Band n260 / 100MHz / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

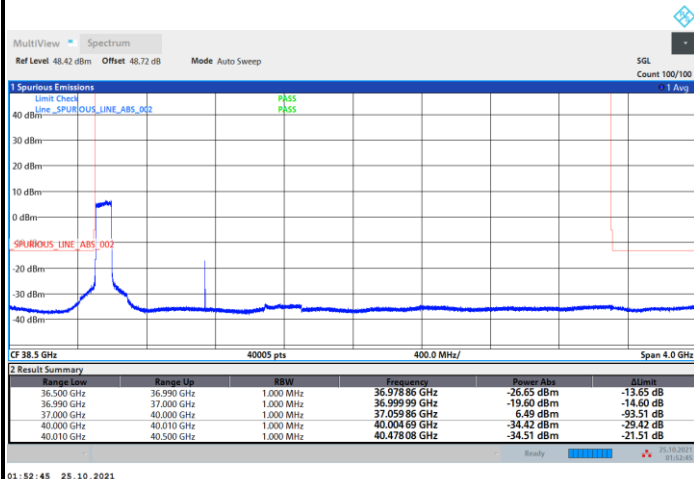




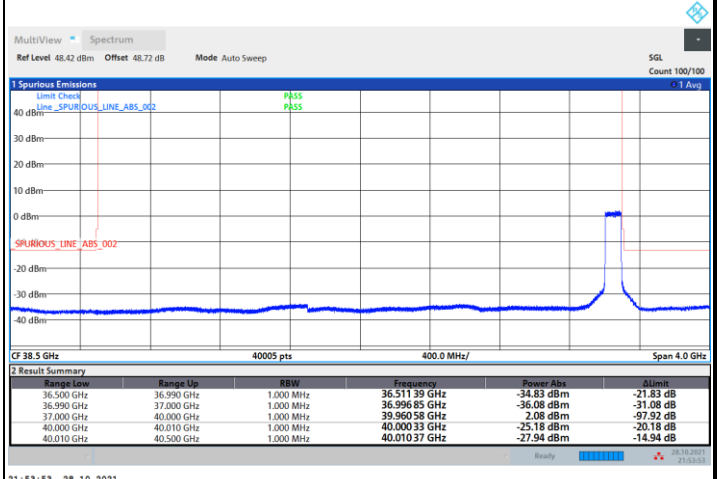
## DFT-s-OFDM Module B

## NR Band n260 / 100MHz / 16QAM

## Lowest Band Edge / Full RB

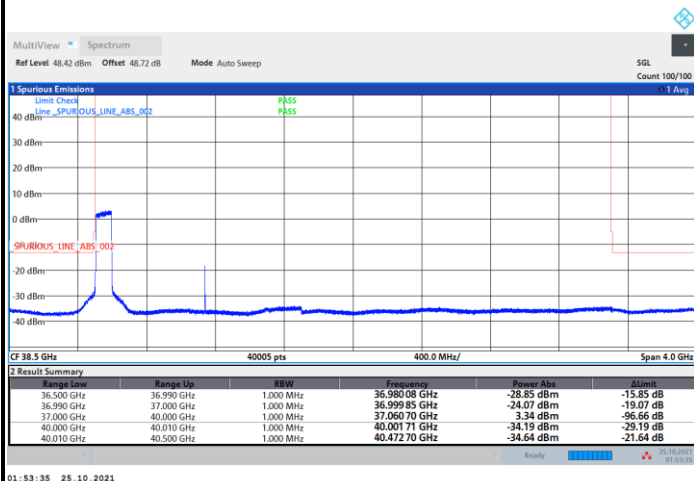


## Highest Band Edge / Full RB

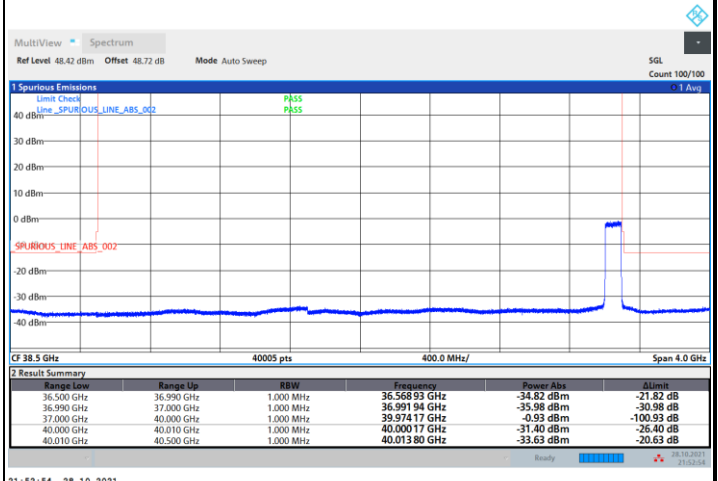


## NR Band n260 / 100MHz / 64QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

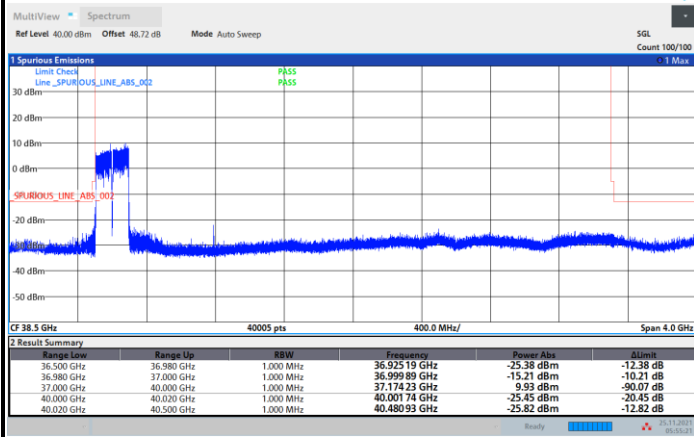




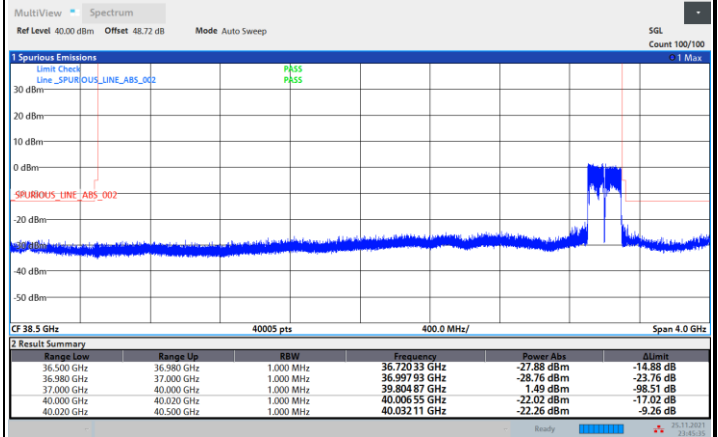
## DFT-s-OFDM Module B

## NR Band n260 / 200MHz / QPSK

## Lowest Band Edge / Full RB

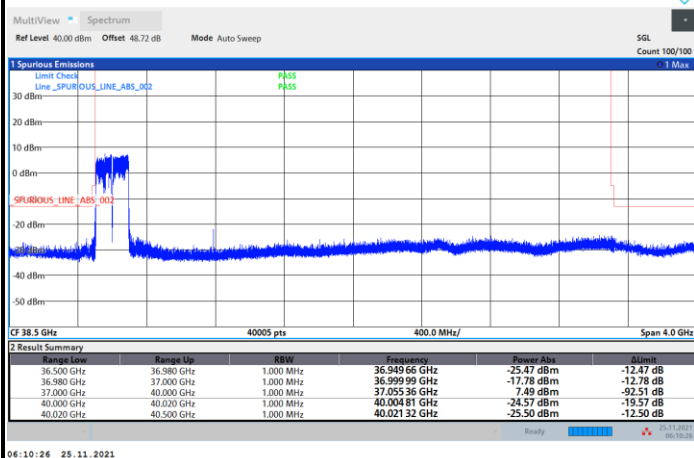


## Highest Band Edge / Full RB

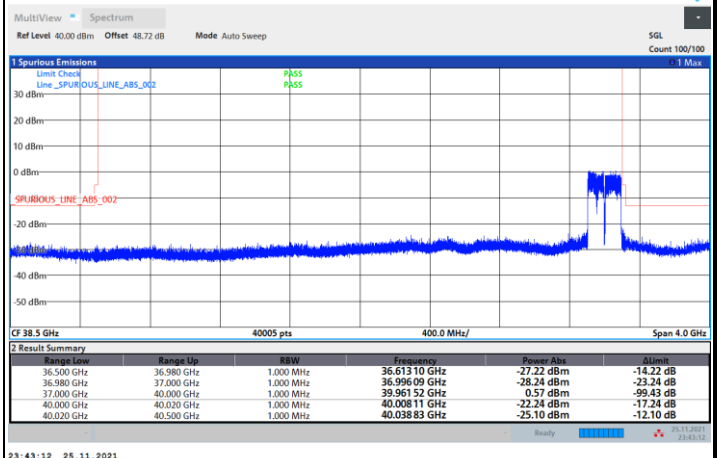


## NR Band n260 / 200MHz / 16QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



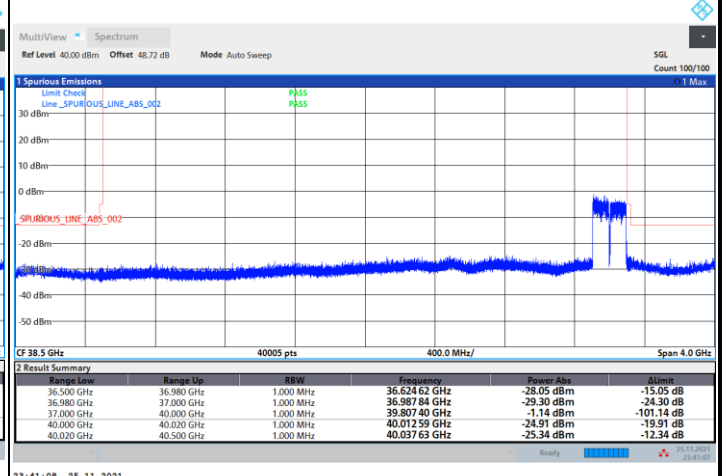
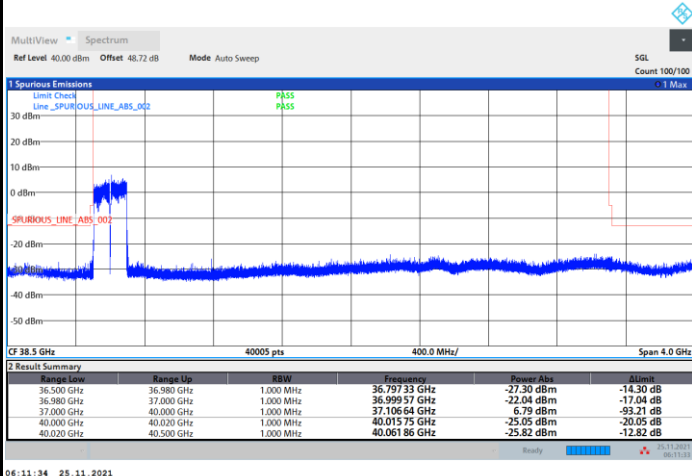


## DFT-s-OFDM Module B

## NR Band n260 / 200MHz / 64QAM

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

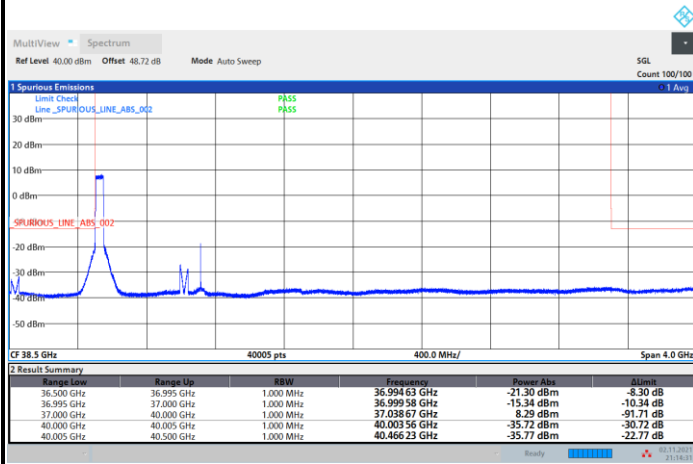




## CP-OFDM Module B

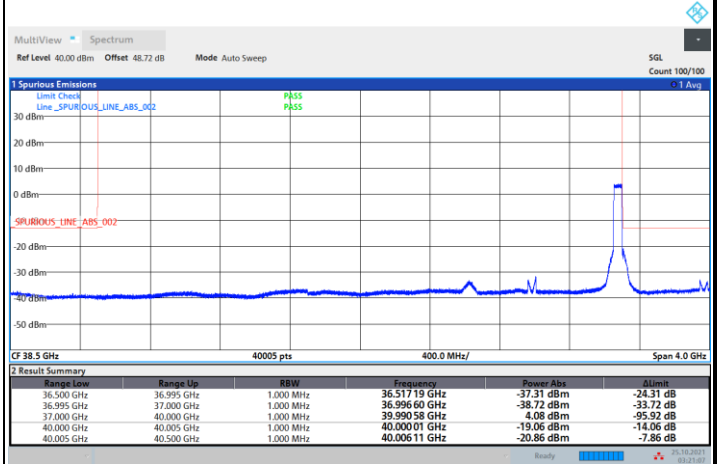
## NR Band n260 / 50MHz / QPSK

## Lowest Band Edge / Full RB



21:14:31 02.11.2021

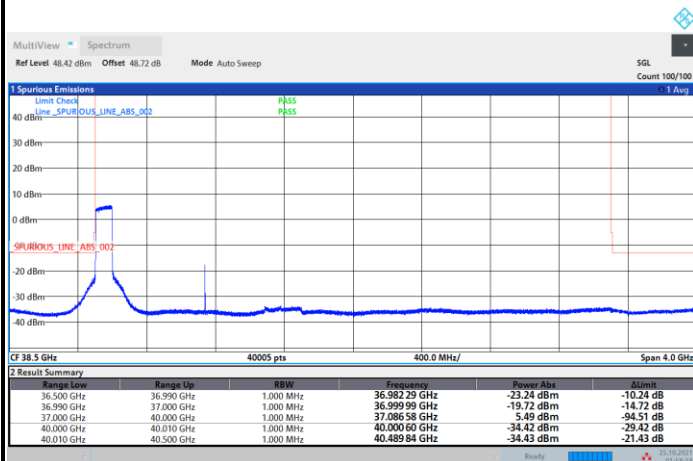
## Highest Band Edge / Full RB



03:21:08 25.10.2021

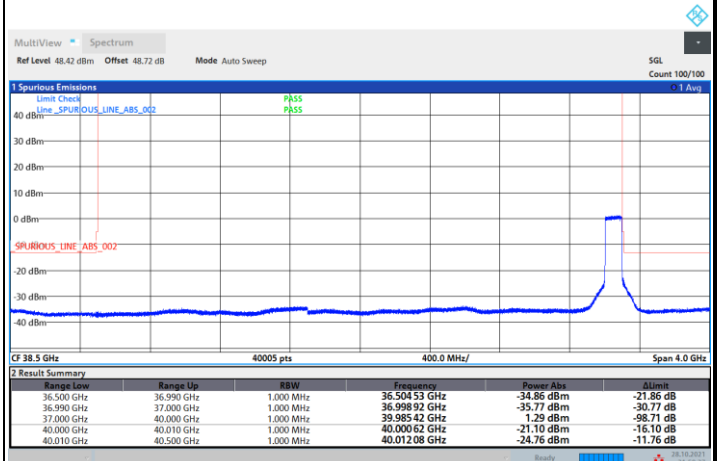
## NR Band n260 / 100MHz / QPSK

## Lowest Band Edge / Full RB



01:58:34 25.10.2021

## Highest Band Edge / Full RB



21:58:28 28.10.2021

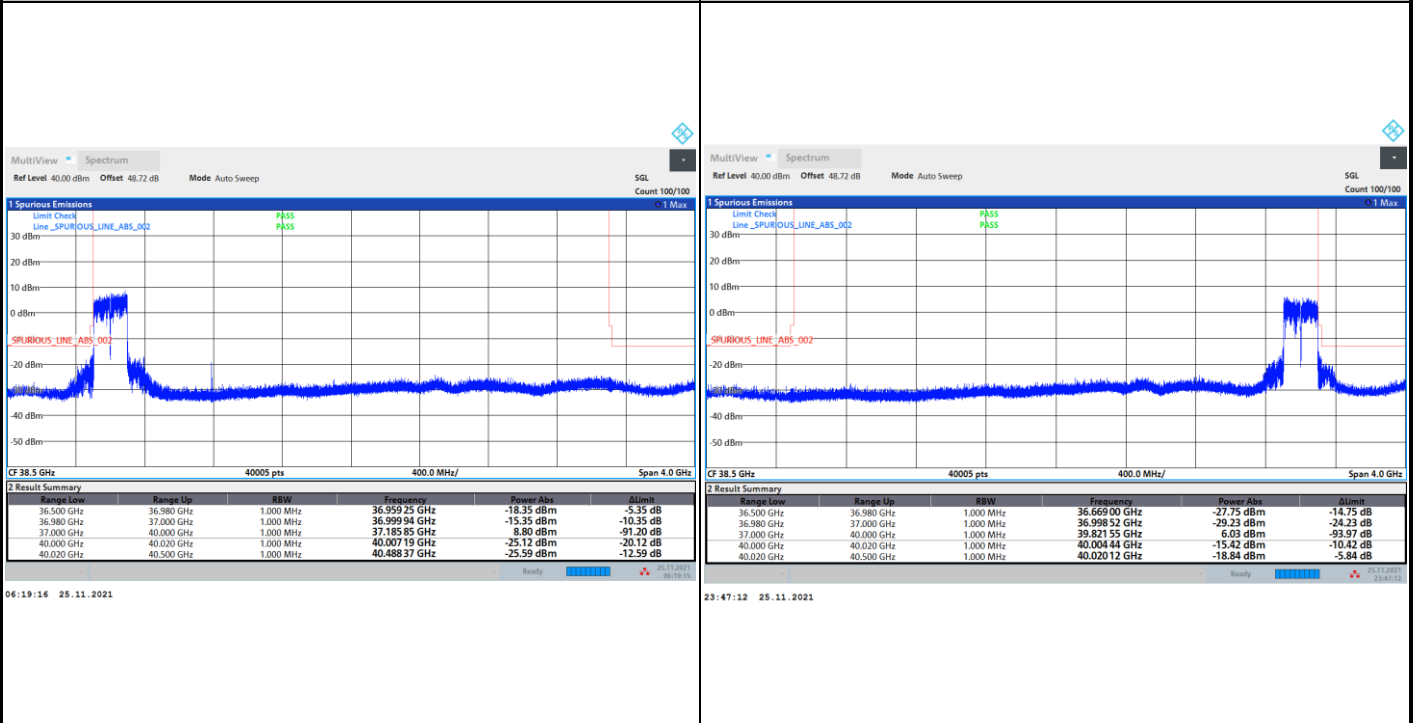


## CP-OFDM Module B

## NR Band n260 / 200MHz / QPSK

## Lowest Band Edge / Full RB

## Highest Band Edge / Full RB

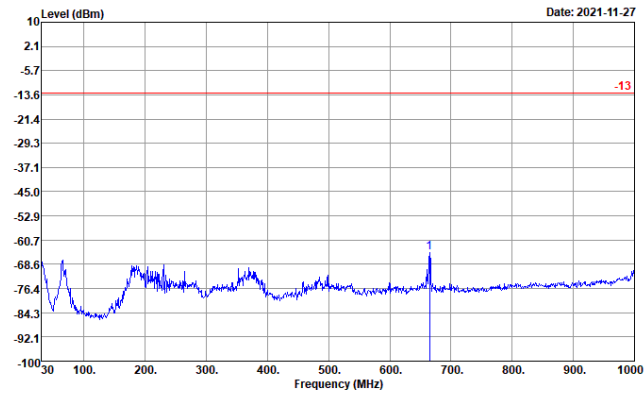




## Spurious Emission

### NR Band n260 (30MHz-1GHz)

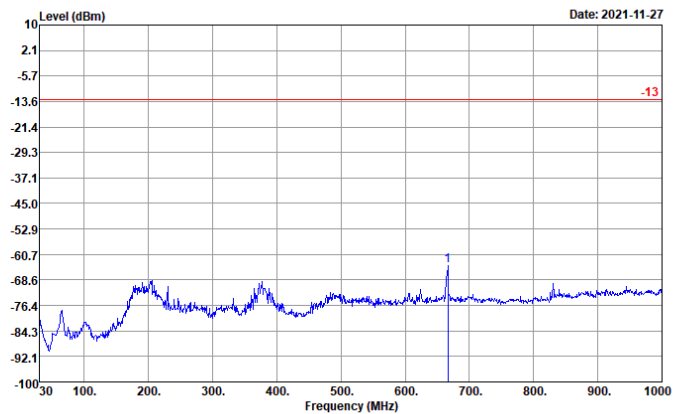
#### Horizontal



Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 HORIZONTAL  
Project : 161608-03  
          : n260 MB

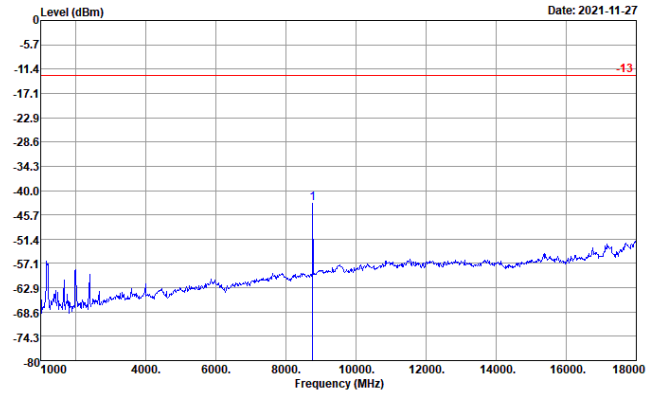
|   | Freq   | Level  | Over<br>Limit | Limit<br>Line | Read<br>Level |
|---|--------|--------|---------------|---------------|---------------|
|   | MHz    | dBm    | dB            | dBm           | dBm           |
| 1 | 665.35 | -64.68 | -51.68        | -13.00        | -67.36        |

#### Vertical



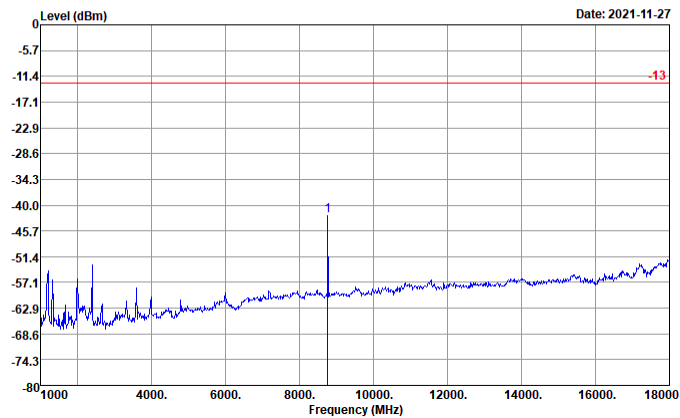
Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 VERTICAL  
Project : 161608-03  
          : n260 MB

|   | Freq   | Level  | Over<br>Limit | Limit<br>Line | Read<br>Level |
|---|--------|--------|---------------|---------------|---------------|
|   | MHz    | dBm    | dB            | dBm           | dBm           |
| 1 | 666.32 | -64.29 | -51.29        | -13.00        | -69.53        |

**NR Band n260 (1GHz-18GHz)****Horizontal**

Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 HORIZONTAL  
Project : 161608-03  
          : n260 MB

|   | Freq    | Level  | Over   | Limit  | Read   |
|---|---------|--------|--------|--------|--------|
|   | MHz     | dBm    | Limit  | Line   | Level  |
|   | MHz     | dBm    | dB     | dBm    | dBm    |
| 1 | 8769.00 | -43.04 | -30.04 | -13.00 | -68.39 |

**Vertical**

Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 VERTICAL  
Project : 161608-03  
          : n260 MB

|   | Freq    | Level  | Over   | Limit  | Read   |
|---|---------|--------|--------|--------|--------|
|   | MHz     | dBm    | Limit  | Line   | Level  |
|   | MHz     | dBm    | dB     | dBm    | dBm    |
| 1 | 8769.00 | -42.36 | -29.36 | -13.00 | -67.35 |



Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

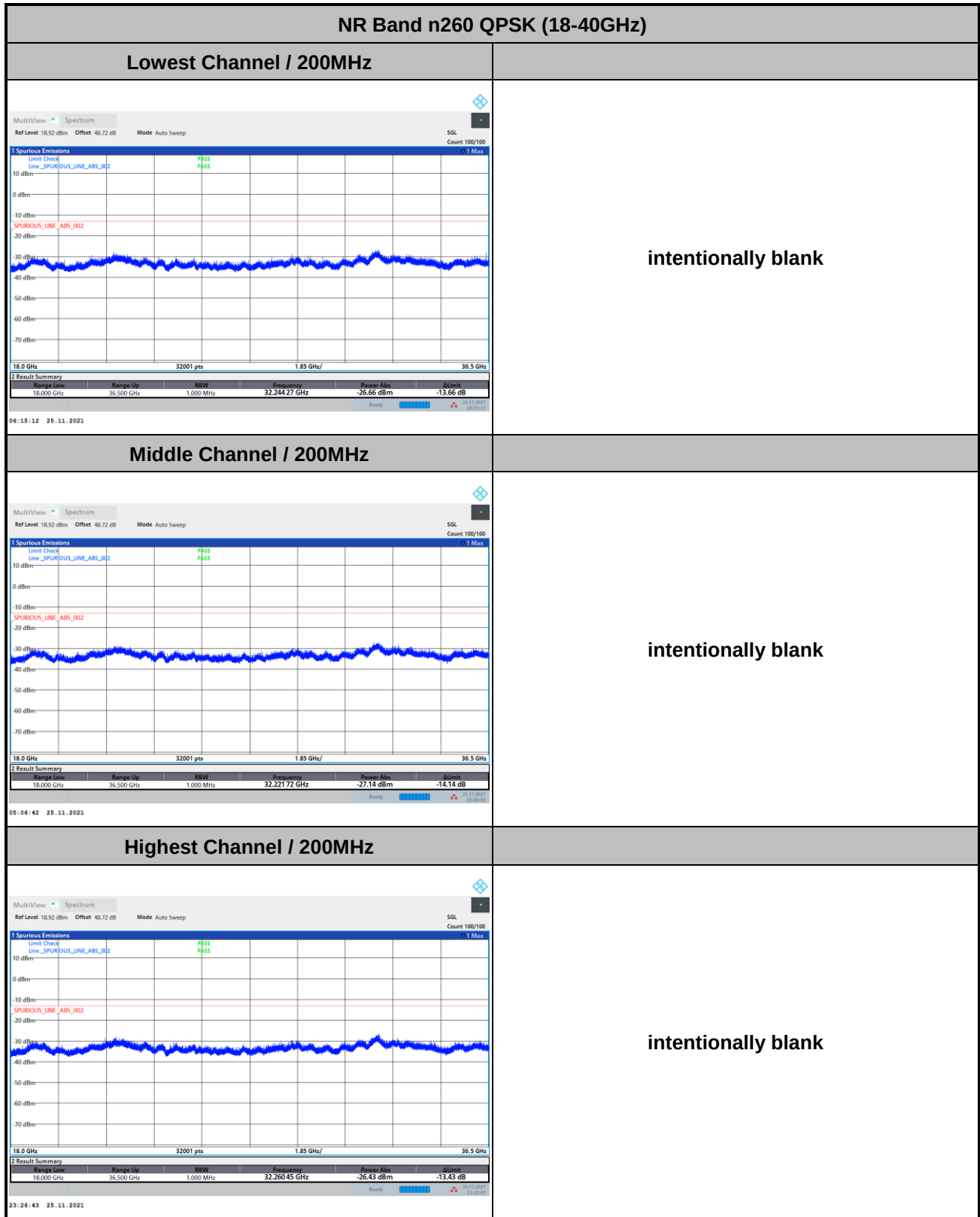
### DFT-s-OFDM Module B



Remark: In band and out of band frequencies are omitted.



## DFT-s-OFDM Module B



Remark: In band and out of band frequencies are omitted.



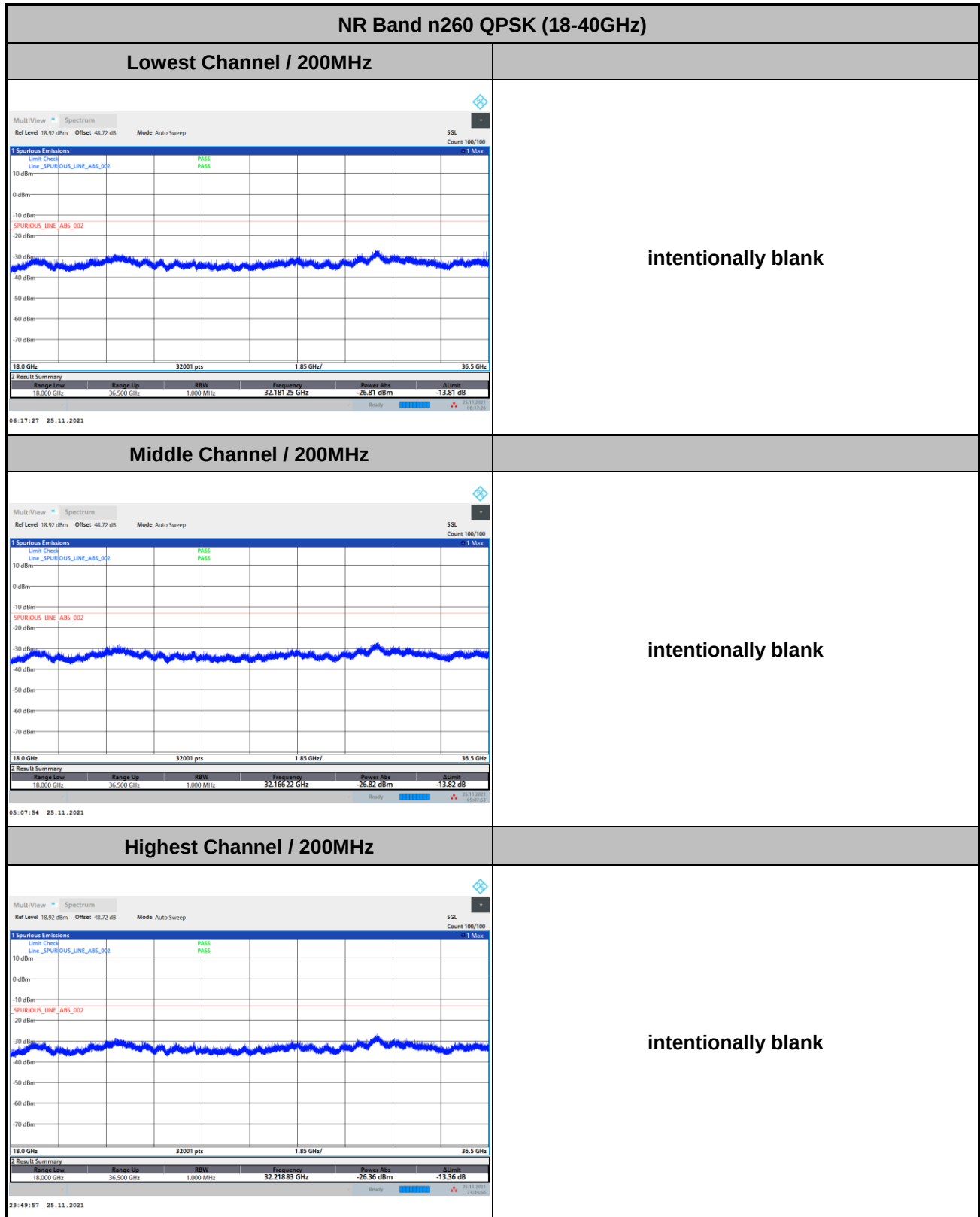
## CP-OFDM Module B



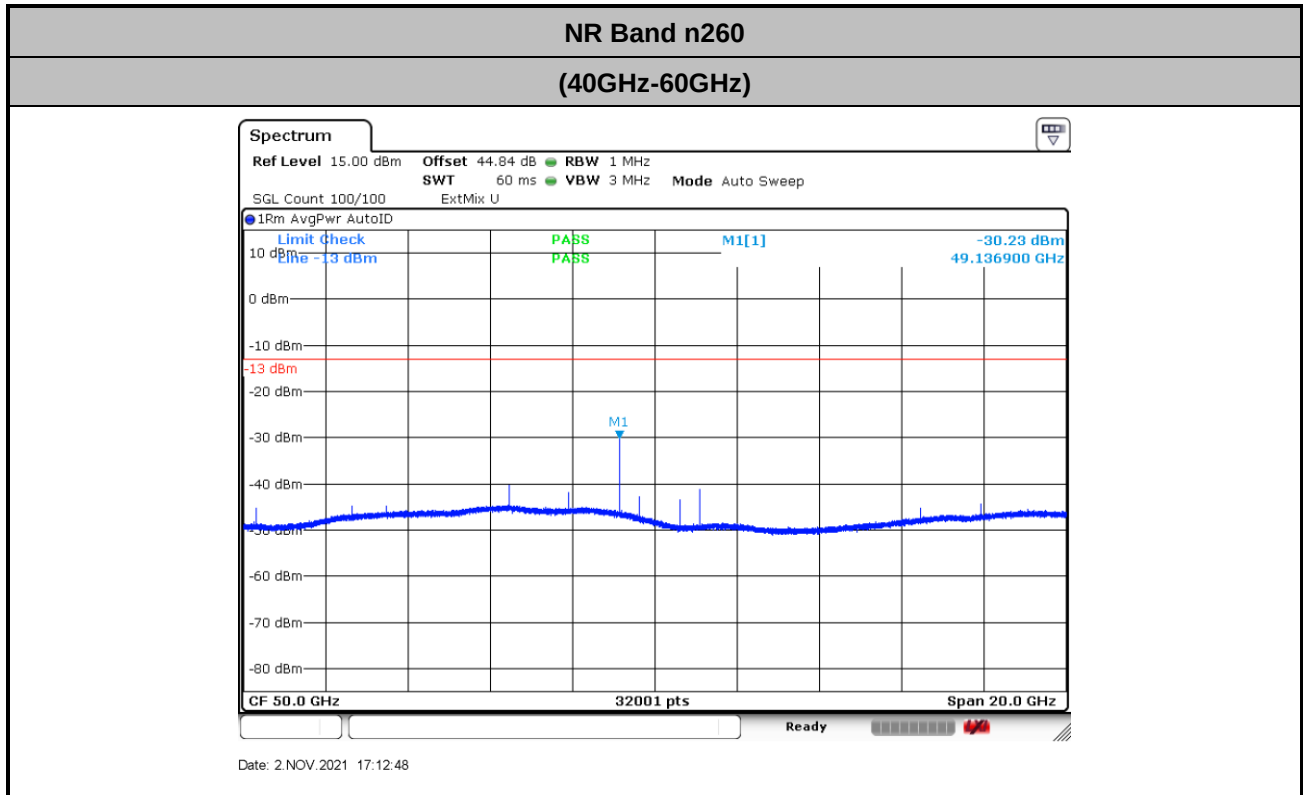
Remark: In band and out of band frequencies are omitted.



## CP-OFDM Module B

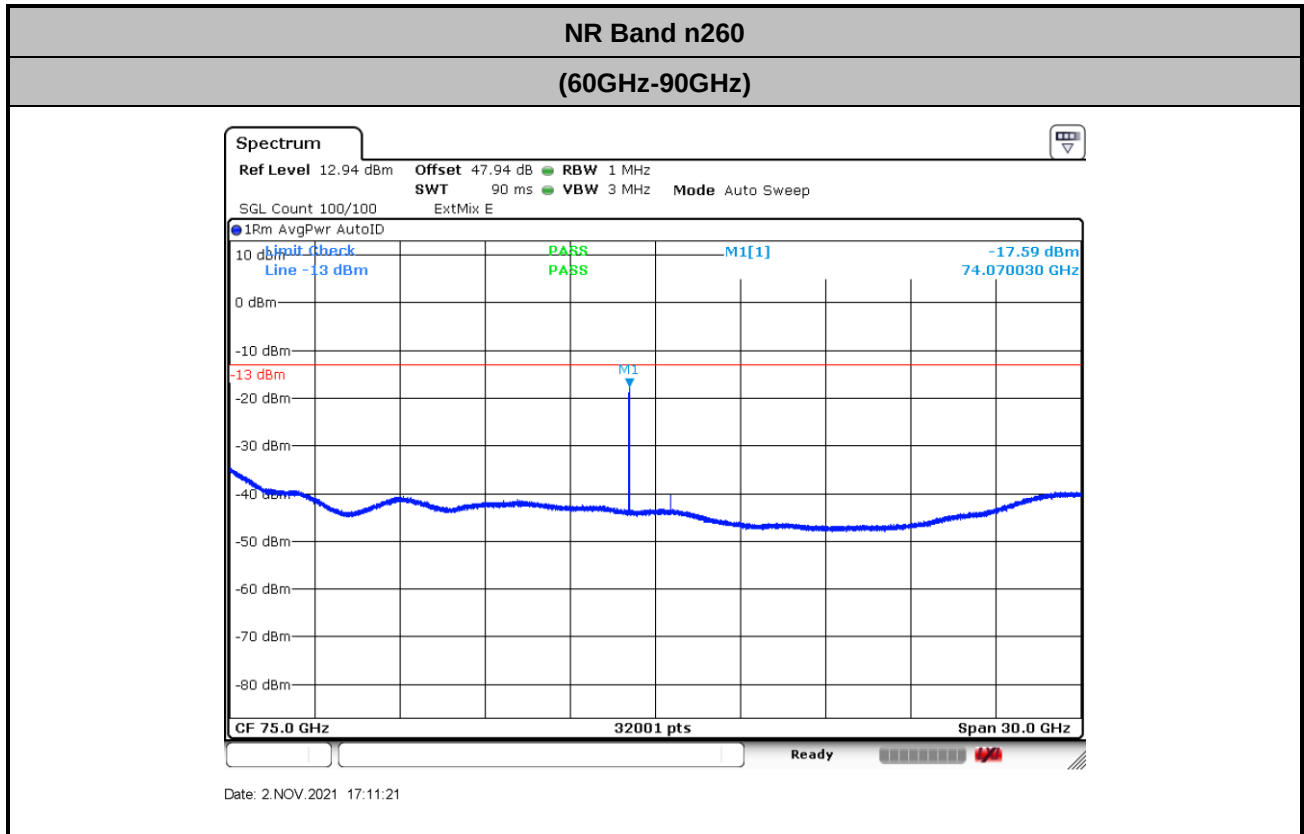


Remark: In band and out of band frequencies are omitted.

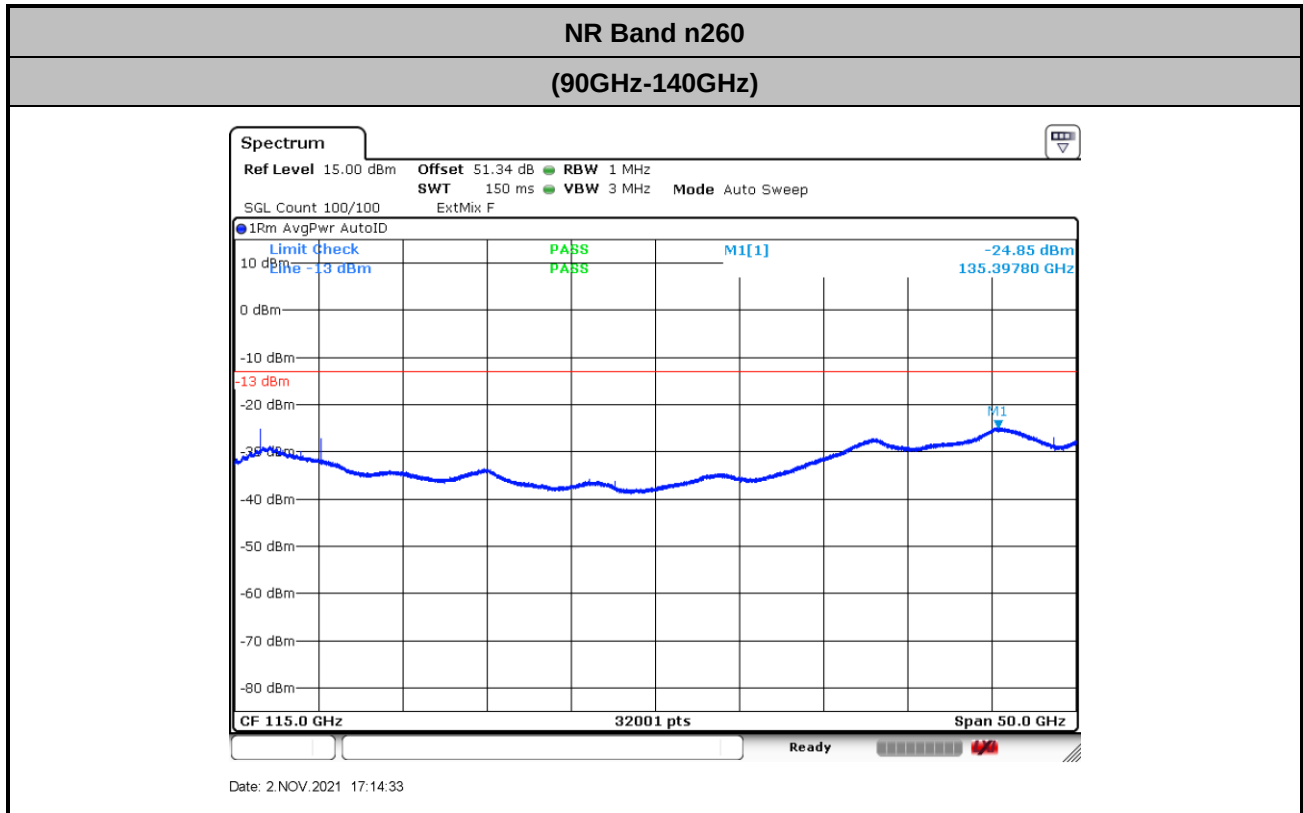


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 42.3 + 0.34 + 107 + 20\log(1) - 104.8 = 44.84 \text{ (dB)}$$

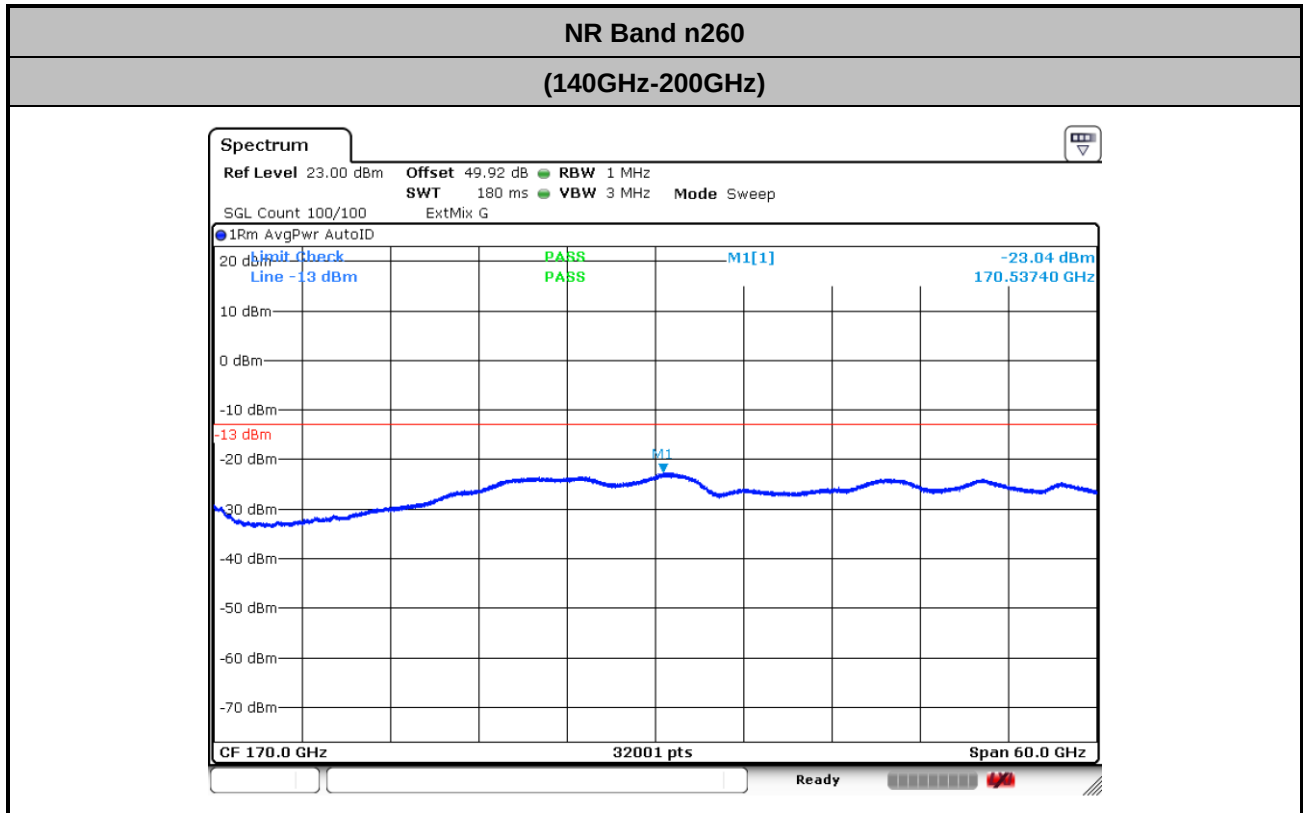


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94 \text{ (dB)} \end{aligned}$$



$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 48.8 + 0.34 + 107 + 20\log(1) - 104.8 = 51.34 \text{ (dB)}$$



$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 53.4 + 0.34 + 107 + 20\log(0.5) - 104.8 = 49.92 \text{ (dB)}$$

## Frequency Stability

| Test Conditions     |                   | NR Band n260 / Middle Channel |                    |                    | Limit   |
|---------------------|-------------------|-------------------------------|--------------------|--------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | CW tone                       |                    |                    | Note 2. |
|                     |                   | Frequency<br>(GHz)            | Deviation<br>(kHz) | Deviation<br>(ppm) | Result  |
| 50                  | Normal Voltage    | 38.50100886                   | -0.058             | 0.002              | Pass    |
| 40                  | Normal Voltage    | 38.50100885                   | -0.043             | 0.001              |         |
| 30                  | Normal Voltage    | 38.50100883                   | -0.029             | 0.001              |         |
| 20(Ref.)            | Normal Voltage    | 38.5010088                    | 0.000              | 0.000              |         |
| 10                  | Normal Voltage    | 38.5010088                    | 0.000              | 0.000              |         |
| 0                   | Normal Voltage    | 38.50100879                   | 0.015              | 0.000              |         |
| -10                 | Normal Voltage    | 38.50100877                   | 0.029              | 0.001              |         |
| -20                 | Normal Voltage    | 38.50100876                   | 0.043              | 0.001              |         |
| -30                 | Normal Voltage    | 38.50100876                   | 0.043              | 0.001              |         |
| 20                  | Maximum Voltage   | 38.5010088                    | 0.000              | 0.000              |         |
| 20                  | Normal Voltage    | 38.50100879                   | 0.015              | 0.000              |         |
| 20                  | Battery End Point | 38.50100877                   | 0.029              | 0.001              |         |

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.40 V.
2. The frequency fundamental emissions stay within the operation band.

## NR Band n261 Module A AG0+1

### Occupied Bandwidth

| Mode       | DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz) |       |       |        |       |       |        |        |        |
|------------|------------------------------------------------|-------|-------|--------|-------|-------|--------|--------|--------|
| BW         | 50MHz                                          |       |       | 100MHz |       |       | 200MHz |        |        |
| Mod.       | QPSK                                           | 16QAM | 64QAM | QPSK   | 16QAM | 64QAM | QPSK   | 16QAM  | 64QAM  |
| Lowest CH  | 46.12                                          | 46.17 | 46.26 | 91.69  | 91.64 | 91.44 | 190.25 | 189.43 | 189.68 |
| Middle CH  | 46.13                                          | 46.26 | 45.97 | 91.85  | 91.93 | 91.60 | 189.78 | 189.76 | 189.86 |
| Highest CH | 46.08                                          | 46.33 | 45.94 | 91.82  | 91.81 | 91.54 | 190.00 | 189.61 | 189.74 |

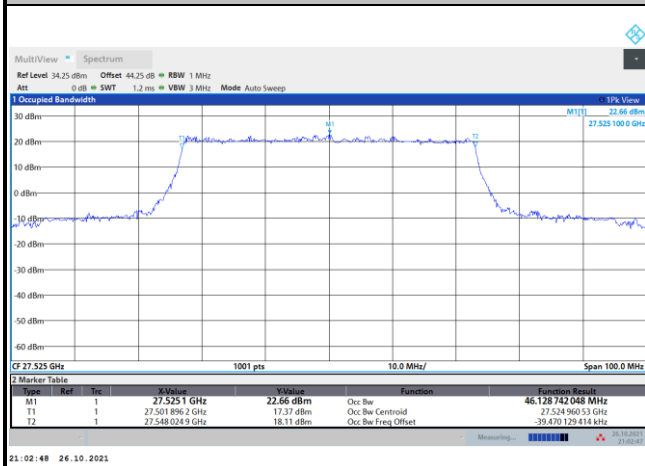
| Mode       | CP-OFDM Module A NR Band n261 : 99%OBW(MHz) |        |        |
|------------|---------------------------------------------|--------|--------|
| BW         | 50MHz                                       | 100MHz | 200MHz |
| Mod.       | QPSK                                        | QPSK   | QPSK   |
| Lowest CH  | 46.18                                       | 94.47  | 192.54 |
| Middle CH  | 46.27                                       | 94.67  | 192.60 |
| Highest CH | 46.18                                       | 94.70  | 192.46 |



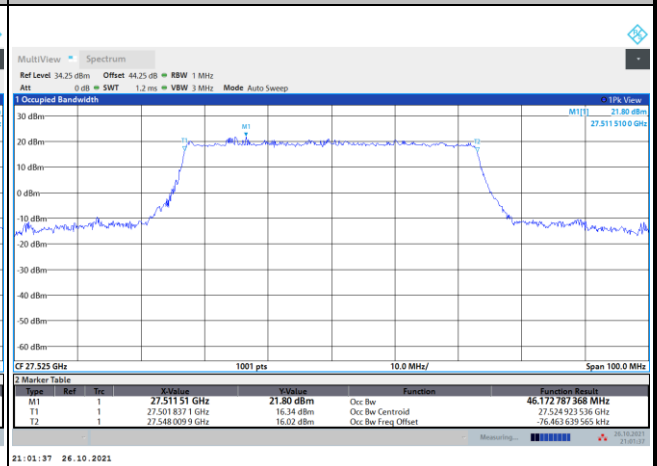
## DFT-s-OFDM Module A

## NR Band n261

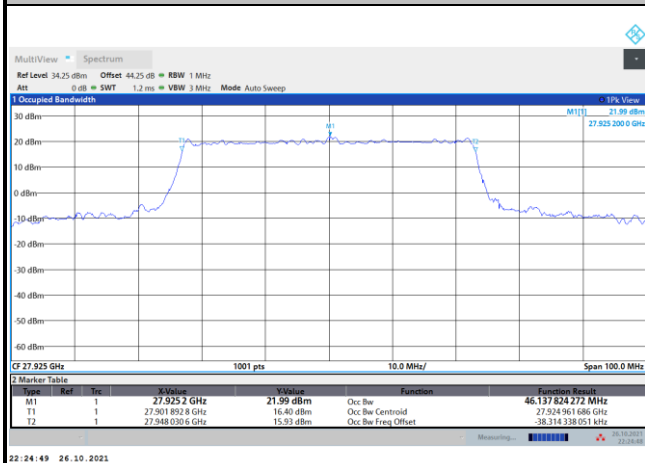
## Lowest Channel / 50MHz / QPSK



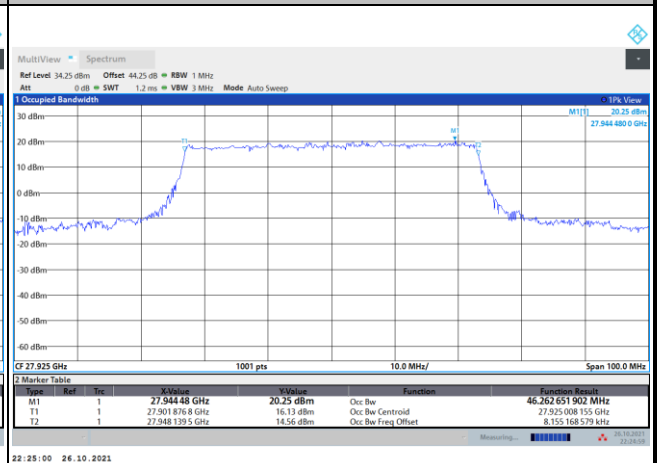
## Lowest Channel / 50MHz / 16QAM



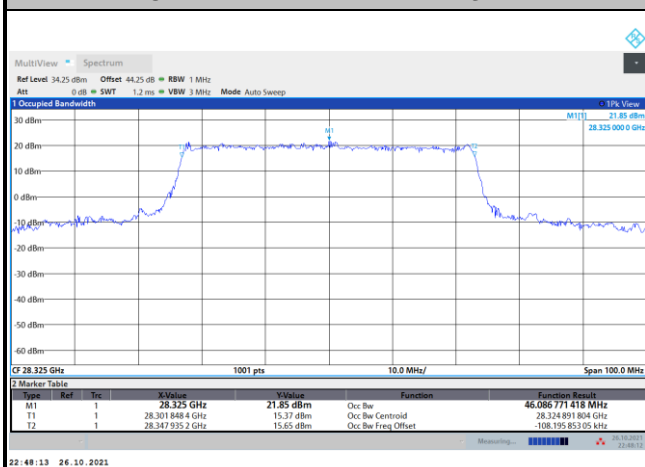
## Middle Channel / 50MHz / QPSK



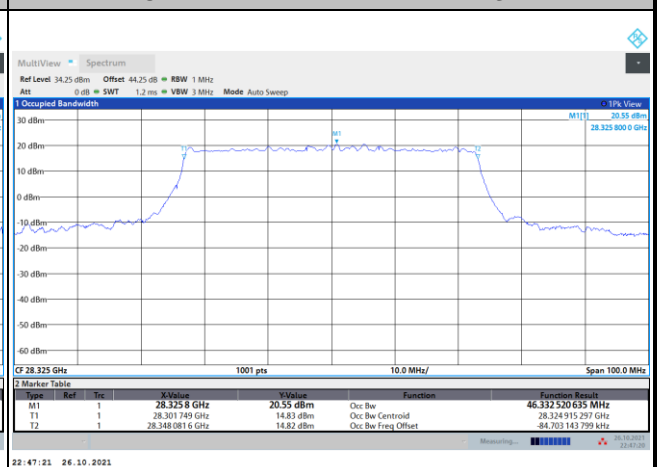
## Middle Channel / 50MHz / 16QAM



## Highest Channel / 50MHz / QPSK



## Highest Channel / 50MHz / 16QAM

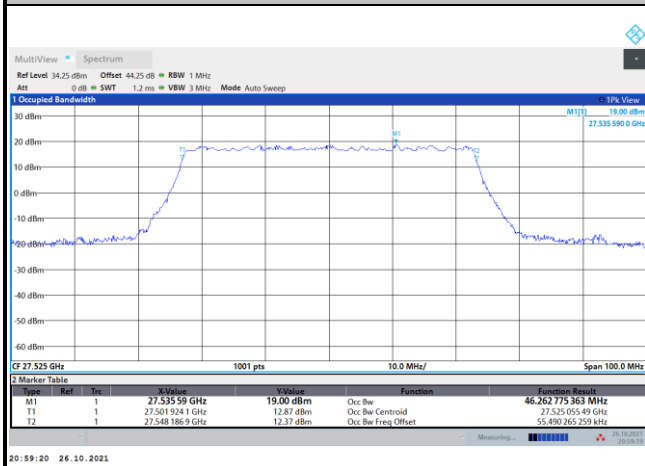




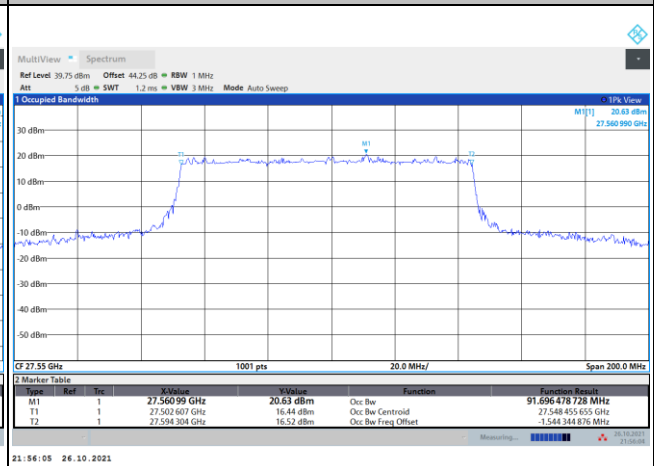
## DFT-s-OFDM Module A

## NR Band n261

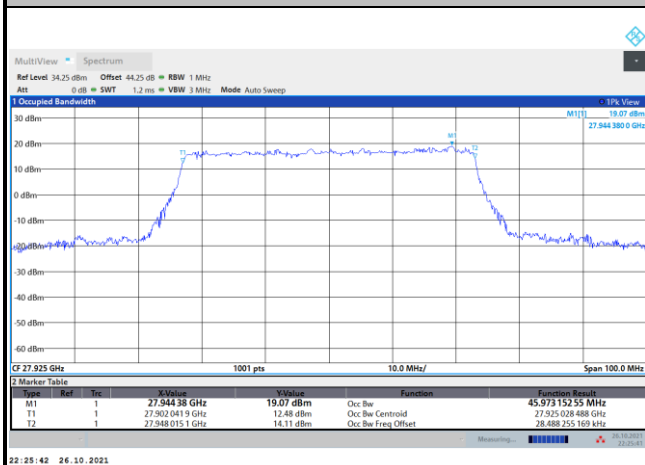
## Lowest Channel / 50MHz / 64QAM



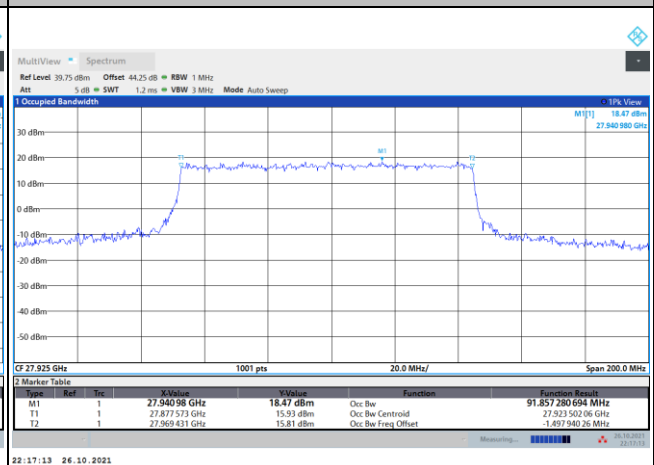
## Lowest Channel / 100MHz / QPSK



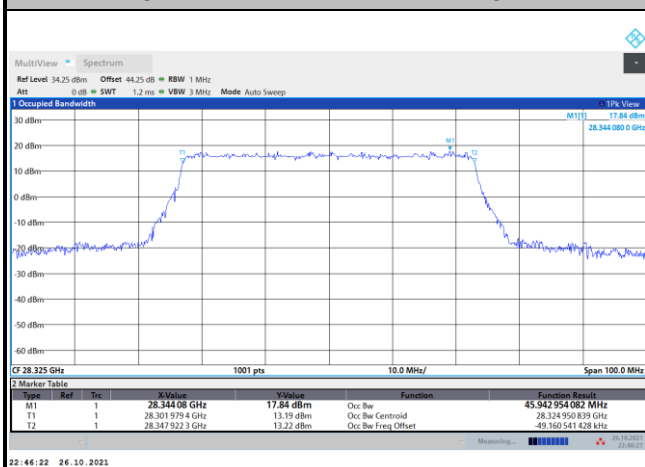
## Middle Channel / 50MHz / 64QAM



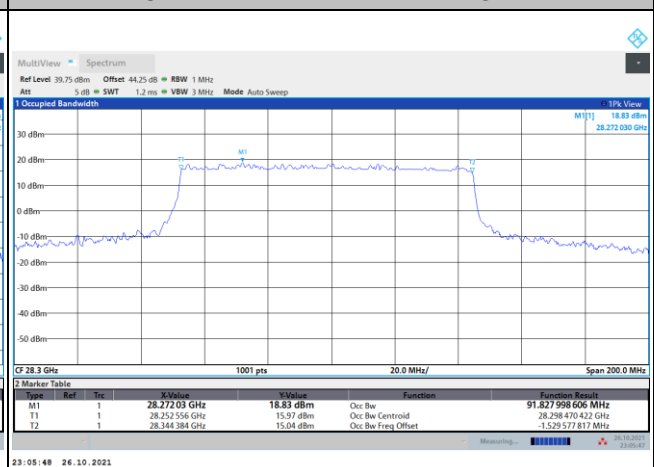
## Middle Channel / 100MHz / QPSK



## Highest Channel / 50MHz / 64QAM



## Highest Channel / 100MHz / QPSK

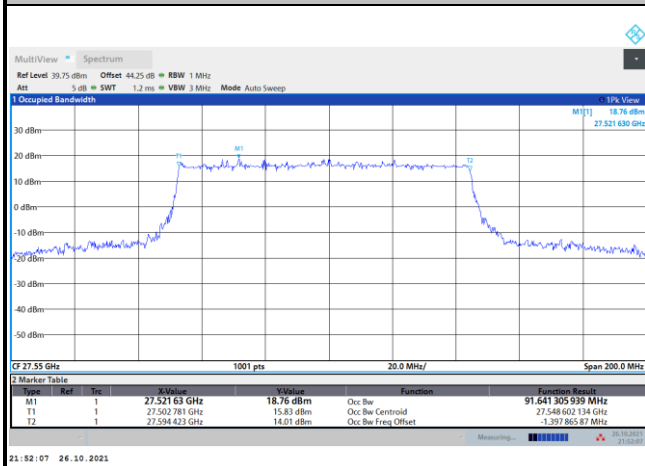




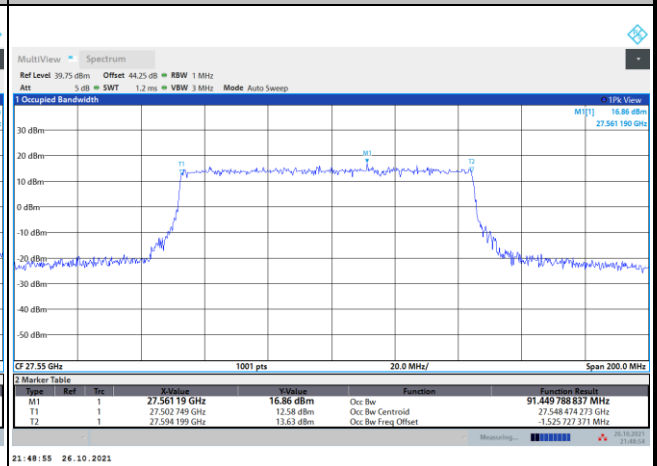
## DFT-s-OFDM Module A

## NR Band n261

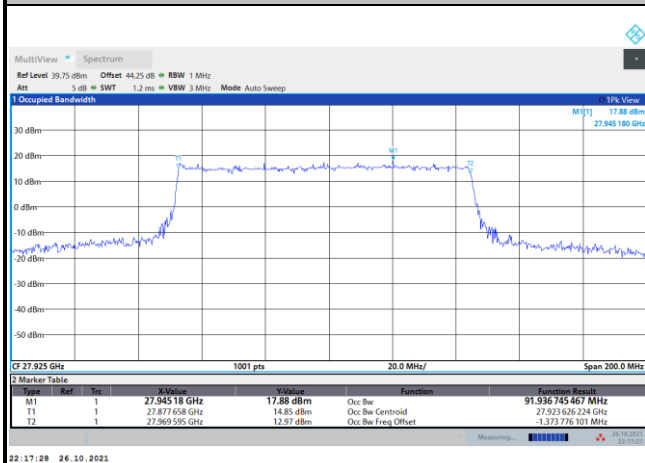
## Lowest Channel / 100MHz / 16QAM



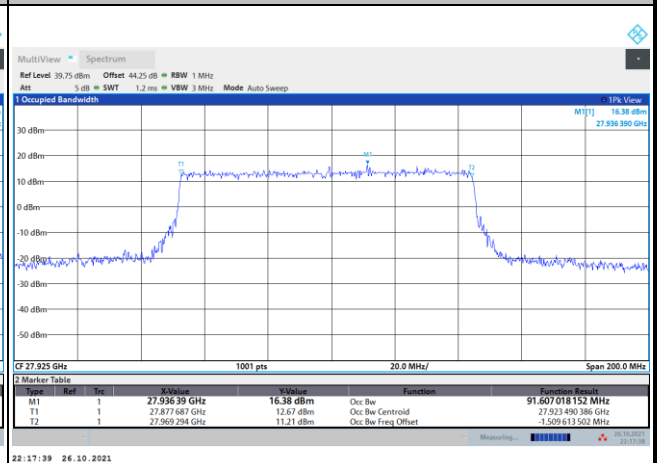
## Lowest Channel / 100MHz / 64QAM



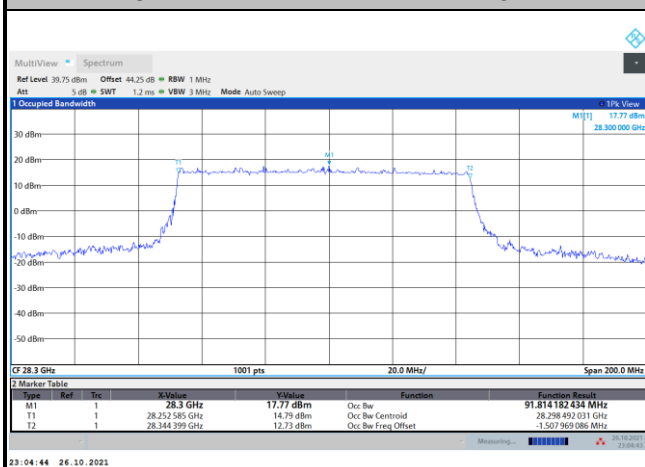
## Middle Channel / 100MHz / 16QAM



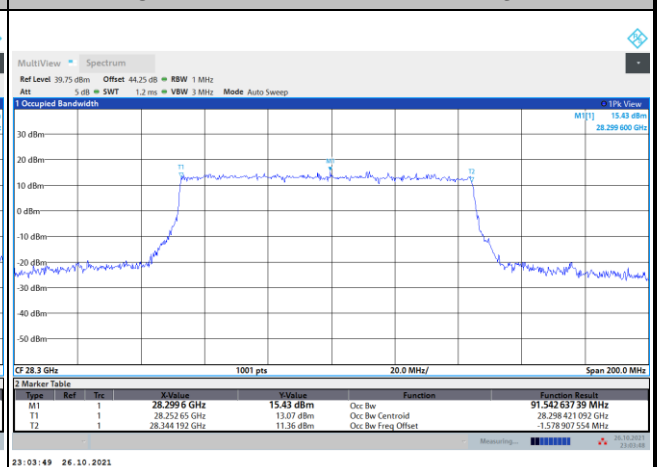
## Middle Channel / 100MHz / 64QAM



## Highest Channel / 100MHz / 16QAM



## Highest Channel / 100MHz / 64QAM

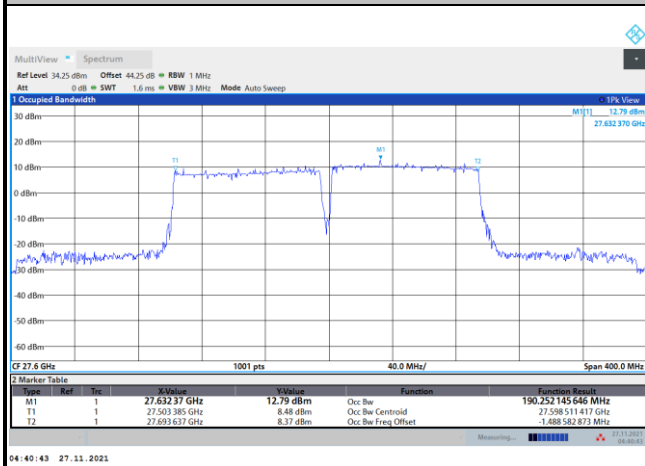




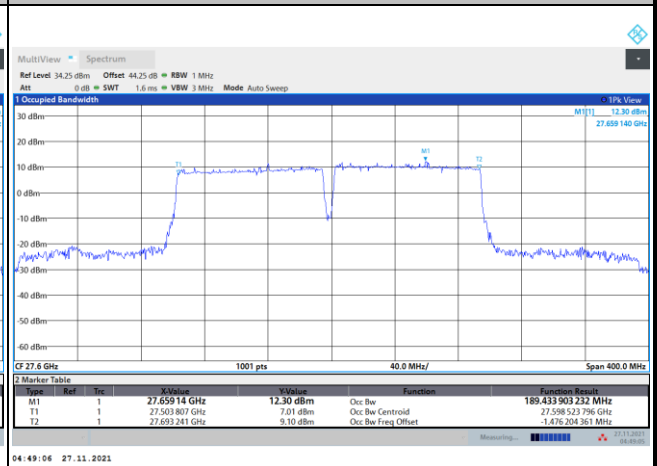
## DFT-s-OFDM Module A

## NR Band n261

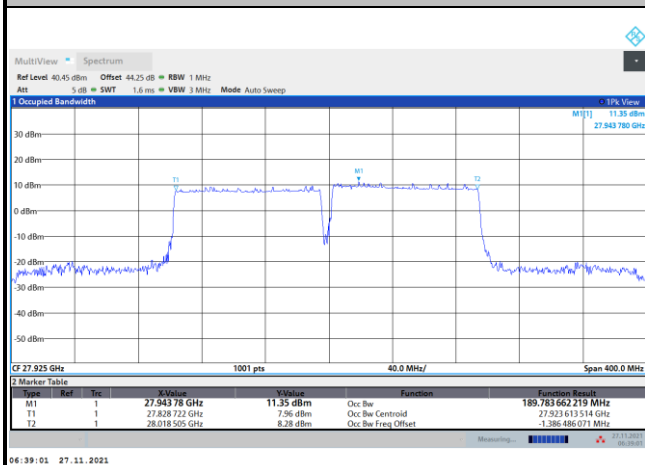
## Lowest Channel / 200MHz / QPSK



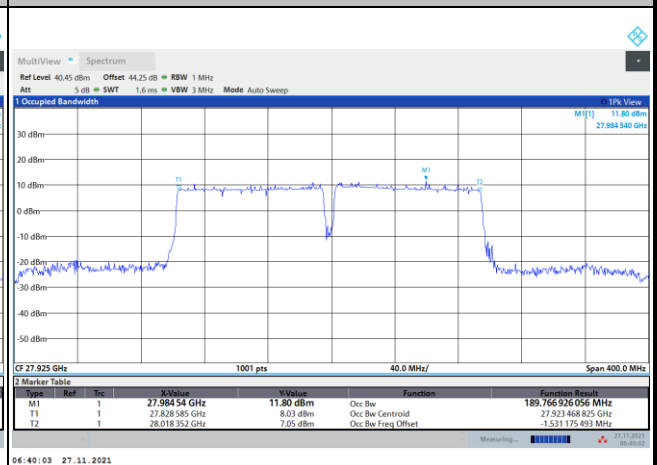
## Lowest Channel / 200MHz / 16QAM



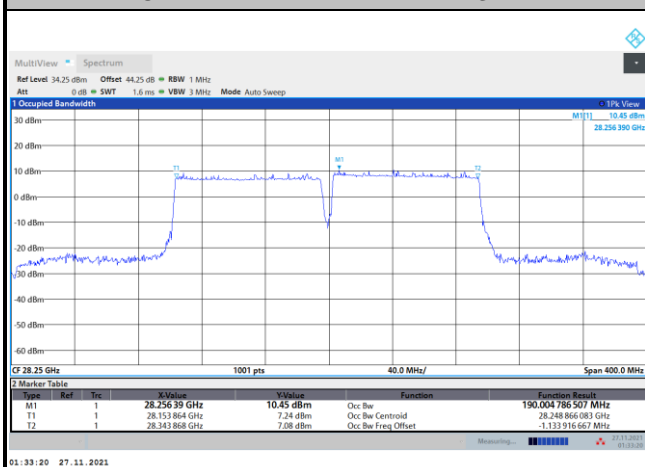
## Middle Channel / 200MHz / QPSK



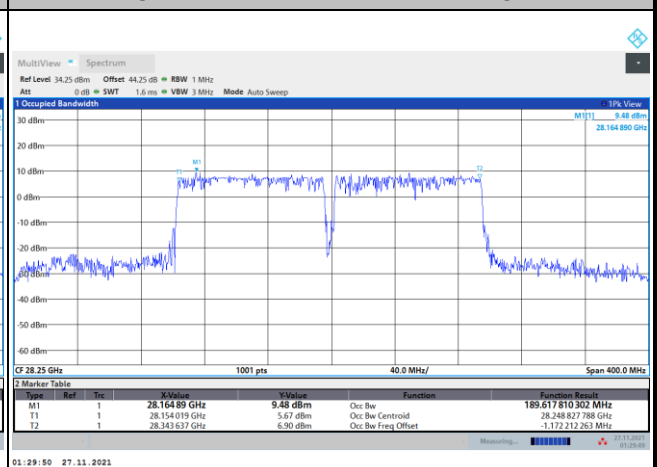
## Middle Channel / 200MHz / 16QAM



## Highest Channel / 200MHz / QPSK



## Highest Channel / 200MHz / 16QAM

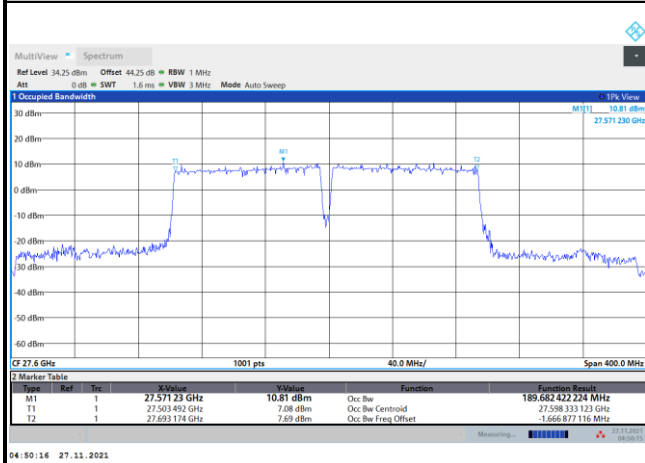




## DFT-s-OFDM Module A

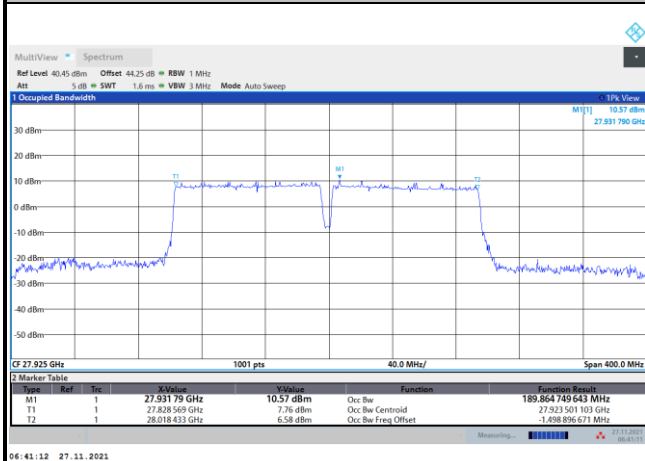
## NR Band n261

## Lowest Channel / 200MHz / 64QAM



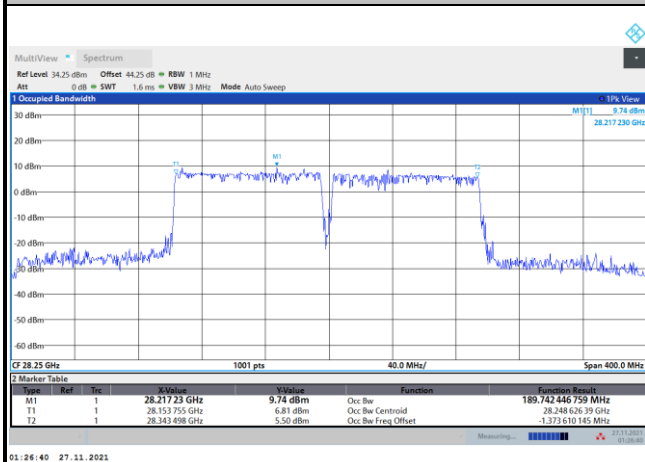
intentionally blank

## Middle Channel / 200MHz / 64QAM



intentionally blank

## Highest Channel / 200MHz / 64QAM



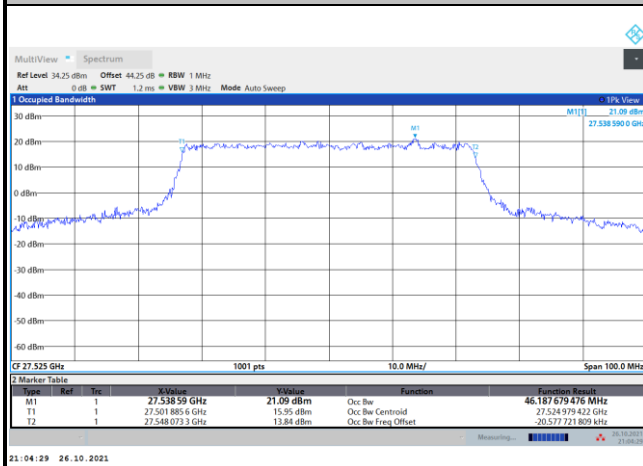
intentionally blank



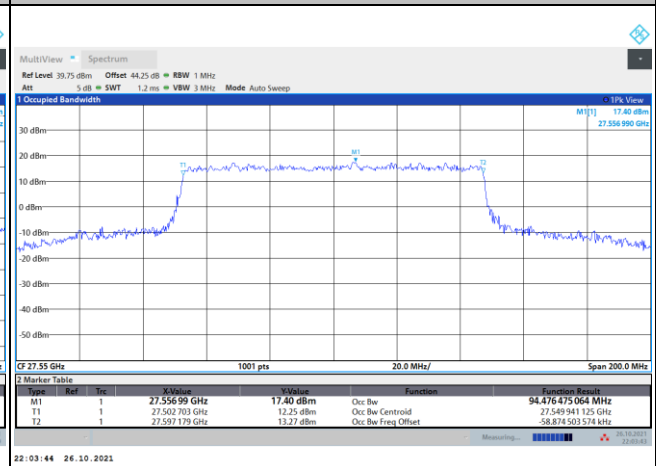
## CP-OFDM Module A

## NR Band n261

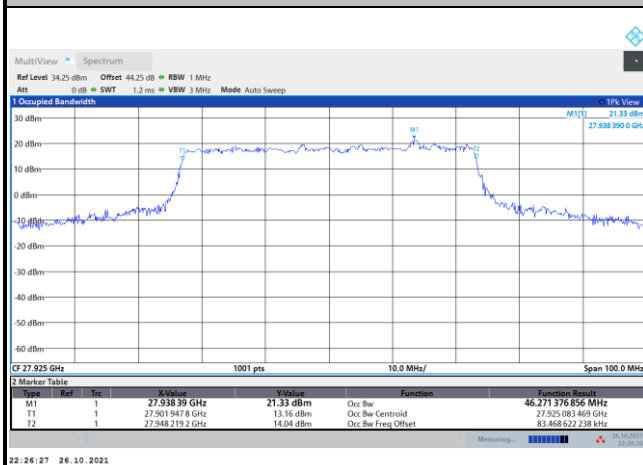
## Lowest Channel / 50MHz / QPSK



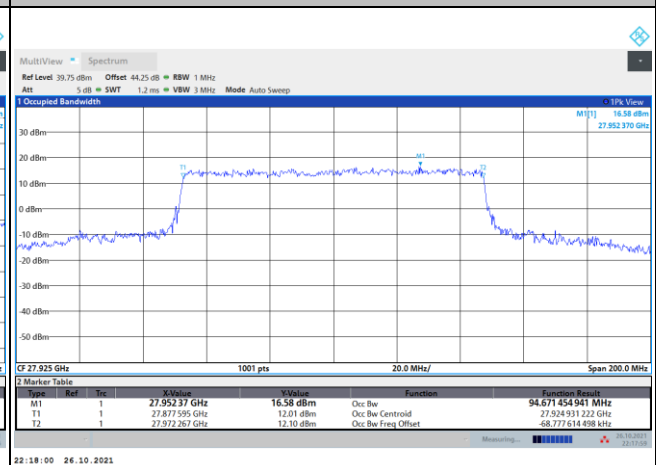
## Lowest Channel / 100MHz / QPSK



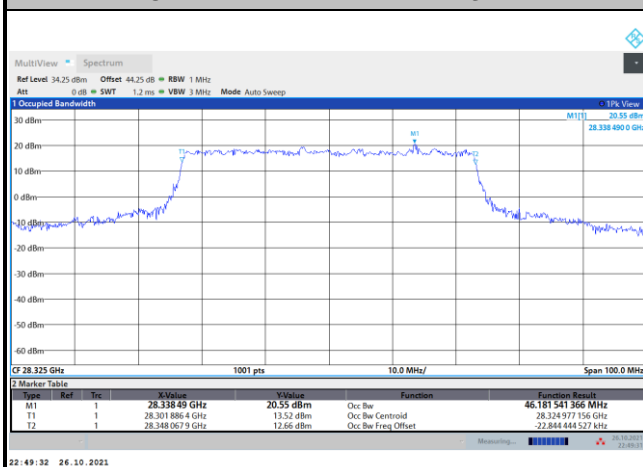
## Middle Channel / 50MHz / QPSK



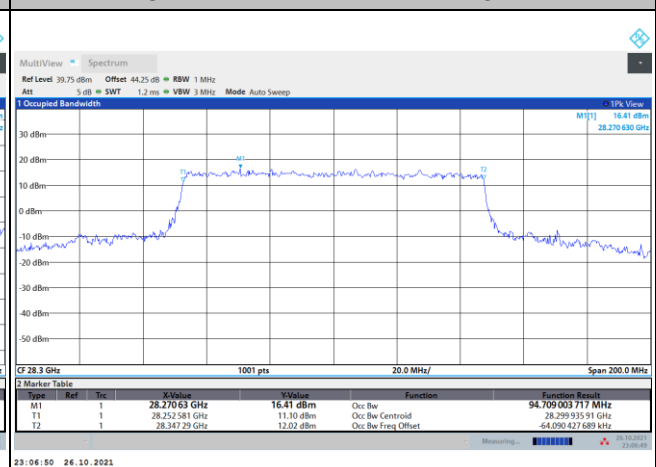
## Middle Channel / 100MHz / QPSK



## Highest Channel / 50MHz / QPSK



## Highest Channel / 100MHz / QPSK

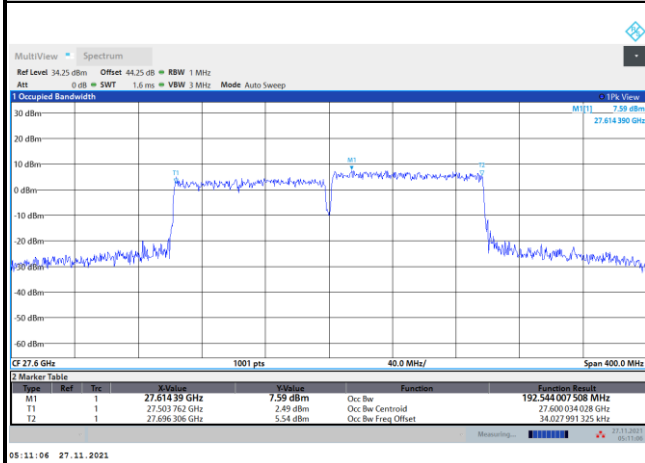




## CP-OFDM Module A

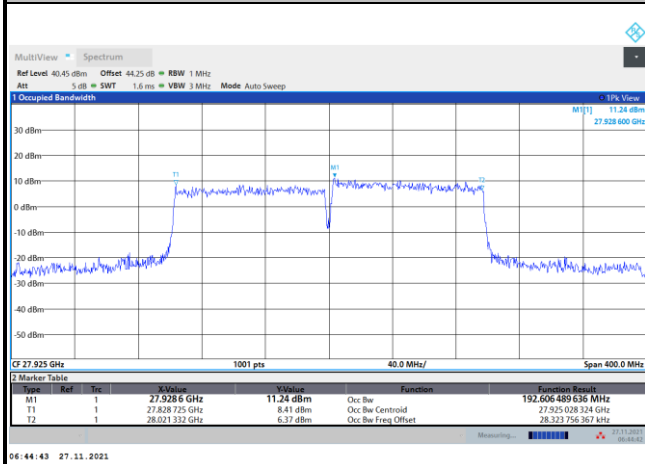
## NR Band n261

## Lowest Channel / 200MHz / QPSK



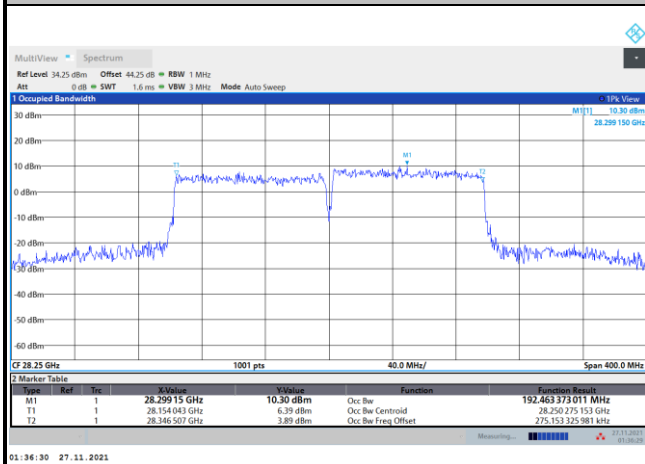
intentionally blank

## Middle Channel / 200MHz / QPSK



intentionally blank

## Highest Channel / 200MHz / QPSK



intentionally blank

## Radiated Out of Band Emissions

| Mode        |         |      | DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB |        |        |        |        |        |        |        |        |
|-------------|---------|------|--------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| BW          |         |      | 50MHz                                            |        |        | 100MHz |        |        | 200MHz |        |        |
| Limit (dBm) |         |      | QPSK                                             | 16QAM  | 64QAM  | QPSK   | 16QAM  | 64QAM  | QPSK   | 16QAM  | 64QAM  |
| Low CH      | 0~10%OB | ≤-5  | -15.30                                           | -14.43 | -19.18 | -19.51 | -21.26 | -8.84  | -8.55  | -5.04  | -7.25  |
|             | >10%OB  | ≤-13 | -21.73                                           | -20.26 | -24.67 | -29.54 | -29.76 | -19.81 | -16.07 | -15.50 | -14.61 |
| High CH     | 0~10%OB | ≤-5  | -19.99                                           | -21.70 | -6.87  | -5.73  | -8.39  | -11.20 | -8.91  | -9.25  | -9.04  |
|             | >10%OB  | ≤-13 | -24.41                                           | -25.35 | -21.35 | -31.83 | -32.95 | -34.33 | -16.50 | -17.44 | -18.69 |
| Result      |         |      | Compliance                                       |        |        |        |        |        |        |        |        |

| Mode        |         |      | CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB |        |        |  |
|-------------|---------|------|-----------------------------------------------|--------|--------|--|
| BW          |         |      | 50MHz                                         | 100MHz | 200MHz |  |
| Limit (dBm) |         |      | QPSK                                          | QPSK   | QPSK   |  |
| Low CH      | 0~10%OB | ≤-5  | -16.98                                        | -7.10  | -9.85  |  |
|             | >10%OB  | ≤-13 | -22.63                                        | -18.57 | -17.86 |  |
| High CH     | 0~10%OB | ≤-5  | -23.24                                        | -9.82  | -7.58  |  |
|             | >10%OB  | ≤-13 | -25.73                                        | -32.90 | -17.10 |  |
| Result      |         |      | Compliance                                    |        |        |  |

| Mode        |         |      | DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB |        |        |        |        |        |        |        |        |
|-------------|---------|------|-----------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| BW          |         |      | 50MHz                                               |        |        | 100MHz |        |        | 200MHz |        |        |
| Limit (dBm) |         |      | QPSK                                                | 16QAM  | 64QAM  | QPSK   | 16QAM  | 64QAM  | QPSK   | 16QAM  | 64QAM  |
| Low CH      | 0~10%OB | ≤-5  | -10.72                                              | -13.43 | -14.24 | -12.44 | -15.56 | -19.69 | -15.83 | -16.86 | -18.06 |
|             | >10%OB  | ≤-13 | -16.73                                              | -20.21 | -26.19 | -17.05 | -21.56 | -27.83 | -26.02 | -22.97 | -23.30 |
| High CH     | 0~10%OB | ≤-5  | -13.03                                              | -14.66 | -17.75 | -16.95 | -20.71 | -26.38 | -19.40 | -20.26 | -19.61 |
|             | >10%OB  | ≤-13 | -16.35                                              | -19.41 | -27.51 | -19.79 | -23.28 | -30.24 | -25.21 | -25.24 | -27.09 |
| Result      |         |      | Compliance                                          |        |        |        |        |        |        |        |        |

| Mode        |         |      | CP-OFDM Module A NR Band n261 : BE (dBm) Full RB |        |        |
|-------------|---------|------|--------------------------------------------------|--------|--------|
| BW          |         |      | 50MHz                                            | 100MHz | 200MHz |
| Limit (dBm) |         |      | QPSK                                             | QPSK   | QPSK   |
| Low CH      | 0~10%OB | ≤-5  | -12.31                                           | -15.15 | -19.80 |
|             | >10%OB  | ≤-13 | -17.06                                           | -18.01 | -28.37 |
| High CH     | 0~10%OB | ≤-5  | -13.31                                           | -15.76 | -16.50 |
|             | >10%OB  | ≤-13 | -16.95                                           | -20.17 | -22.10 |
| Result      |         |      | Compliance                                       |        |        |

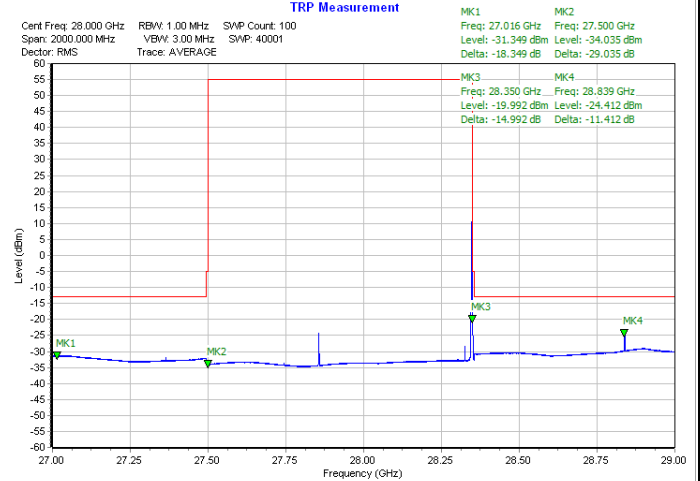
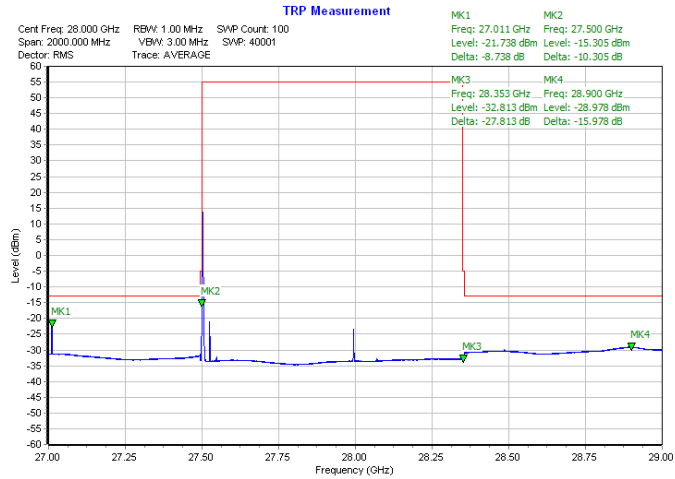


## DFT-s-OFDM Module A

## NR Band n261 / 50MHz / QPSK

## Lowest Band Edge / 1 RB

## Highest Band Edge / 1 RB



## NR Band n261 / 50MHz / 16QAM

## Lowest Band Edge / 1 RB

## Highest Band Edge / 1 RB

