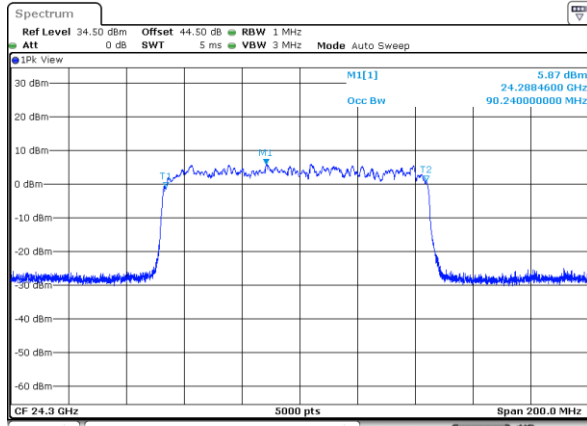




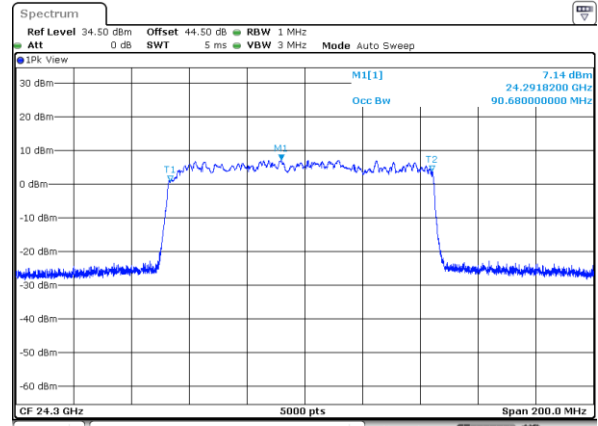
## DFT-s-OFDM Module 1

## NR Band n258a

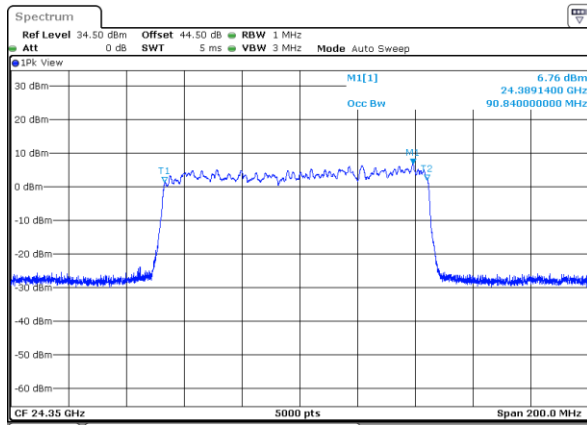
## Lowest Channel / 100MHz / BPSK



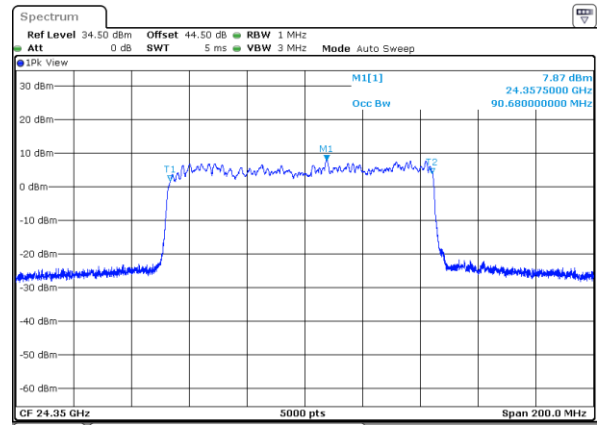
## Lowest Channel / 100MHz / QPSK



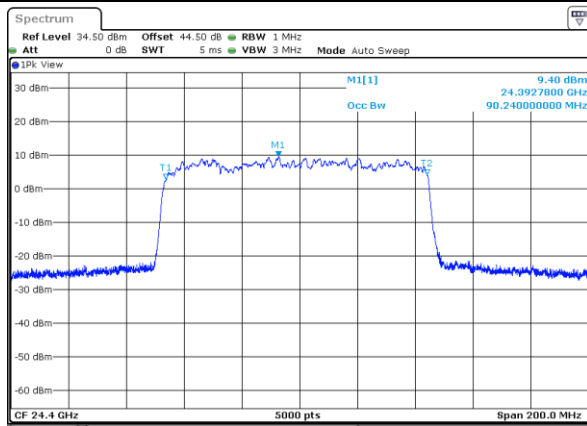
## Middle Channel / 100MHz / BPSK



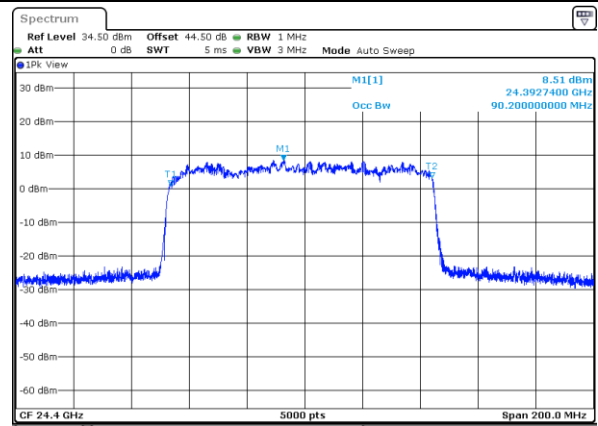
## Middle Channel / 100MHz / QPSK



## Highest Channel / 100MHz / BPSK



## Highest Channel / 100MHz / QPSK

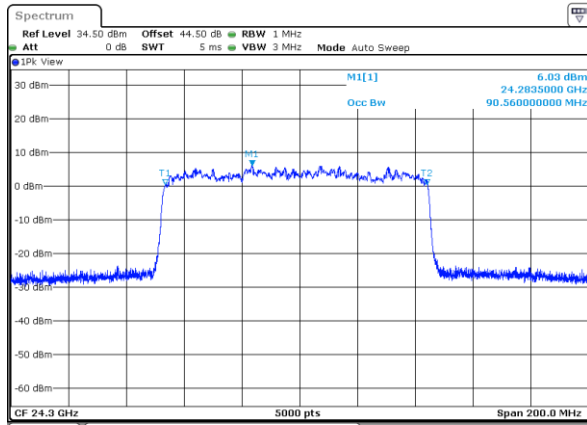




## DFT-s-OFDM Module 1

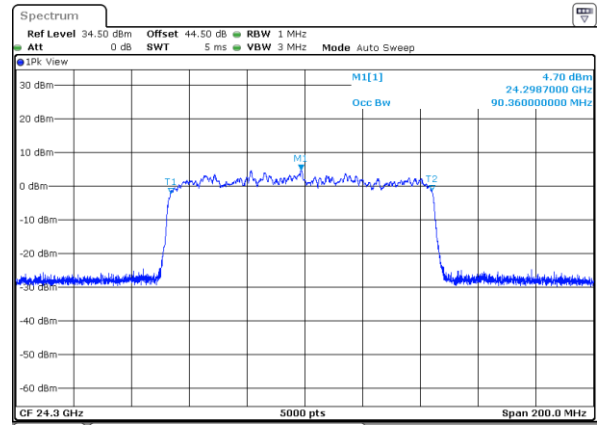
## NR Band n258a

## Lowest Channel / 100MHz / 16QAM



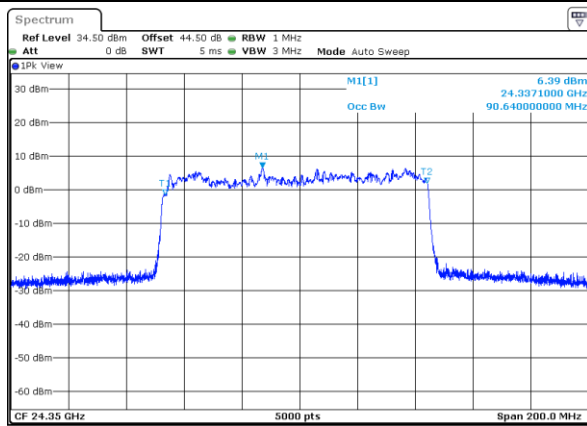
Date: 25.JUL.2020 04:57:40

## Lowest Channel / 100MHz / 64QAM



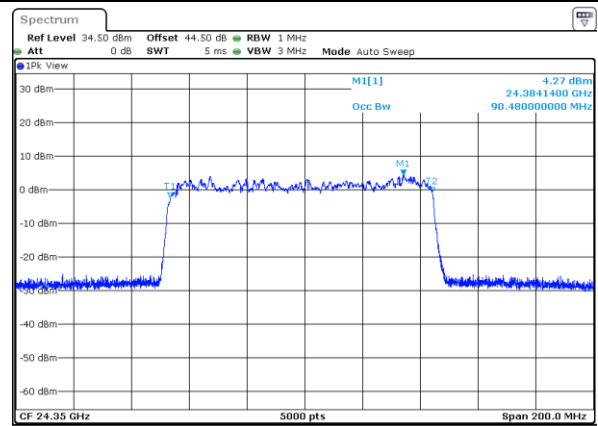
Date: 25.JUL.2020 04:59:03

## Middle Channel / 100MHz / 16QAM



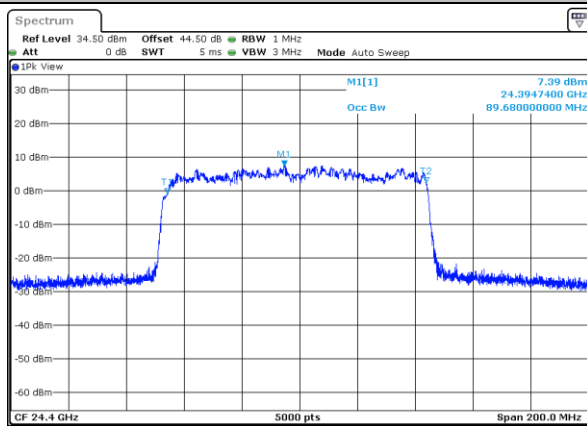
Date: 25.JUL.2020 06:35:19

## Middle Channel / 100MHz / 64QAM



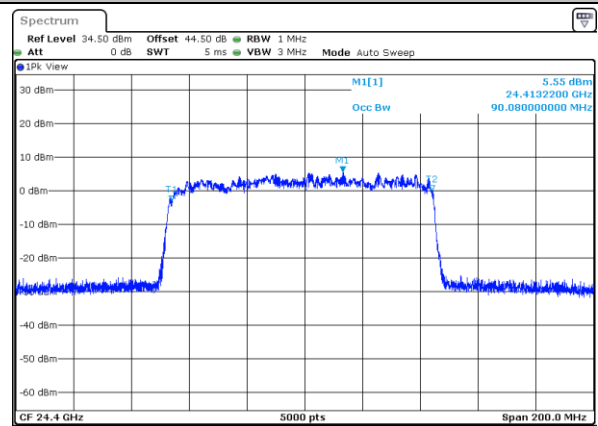
Date: 25.JUL.2020 06:36:03

## Highest Channel / 100MHz / 16QAM



Date: 25.JUL.2020 14:19:01

## Highest Channel / 100MHz / 64QAM



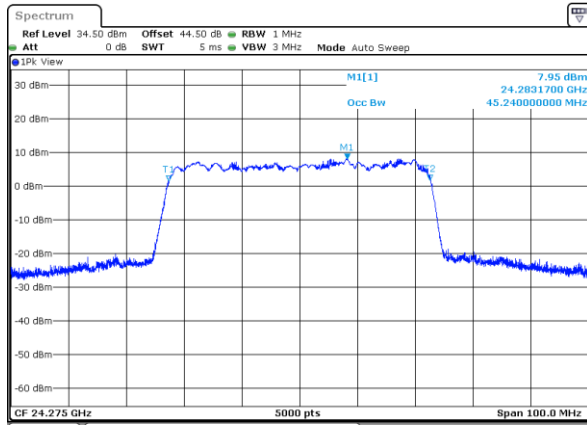
Date: 25.JUL.2020 14:14:33



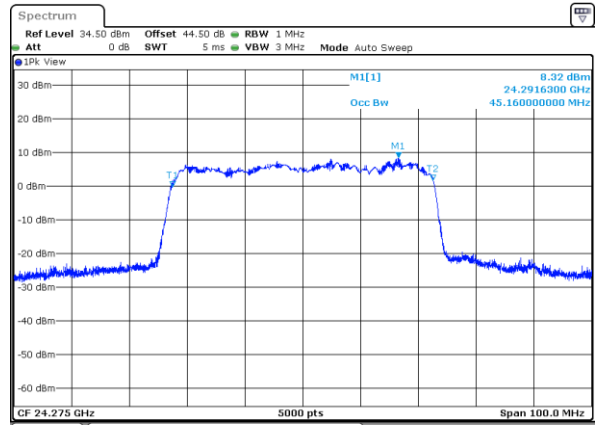
## CP-OFDM Module 1

## NR Band n258a

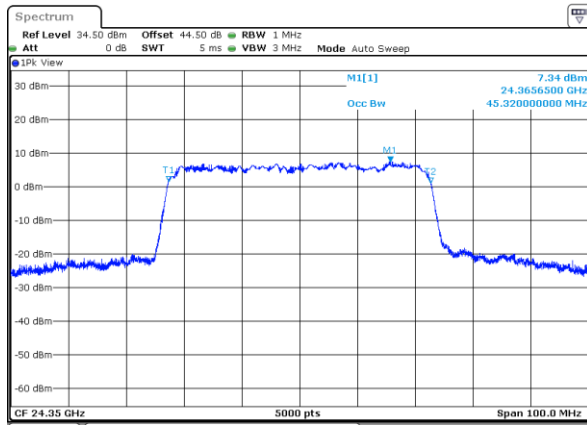
## Lowest Channel / 50MHz / QPSK



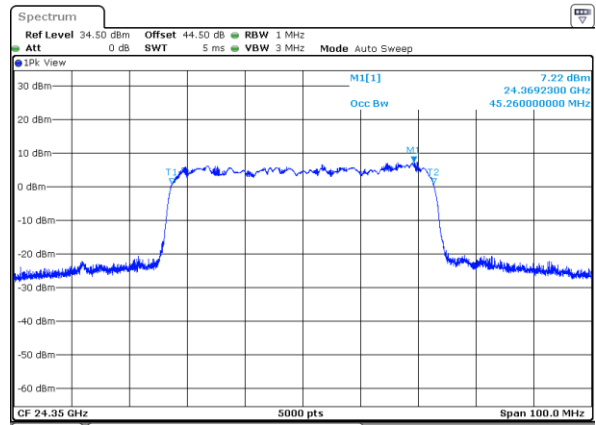
## Lowest Channel / 50MHz / 16QAM



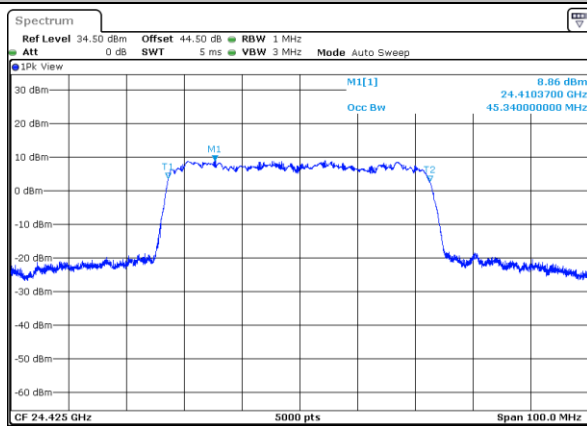
## Middle Channel / 50MHz / QPSK



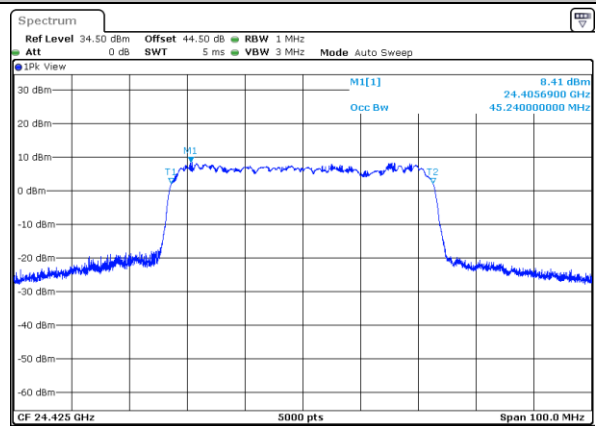
## Middle Channel / 50MHz / 16QAM



## Highest Channel / 50MHz / QPSK



## Highest Channel / 50MHz / 16QAM

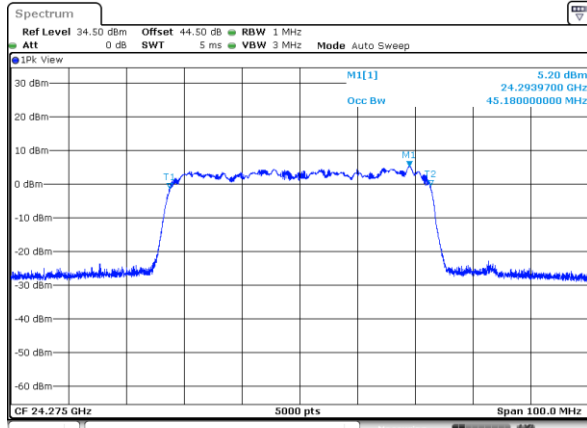




## CP-OFDM Module 1

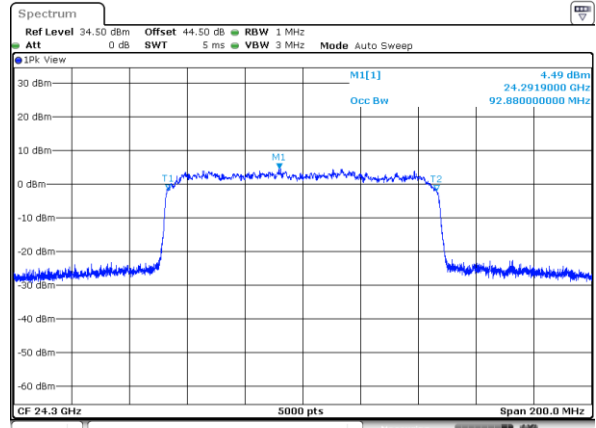
## NR Band n258a

## Lowest Channel / 50MHz / 64QAM



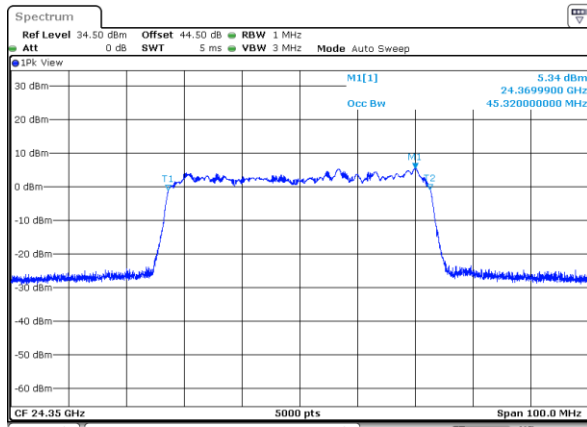
Date: 25.JUL.2020 04:28:47

## Lowest Channel / 100MHz / QPSK



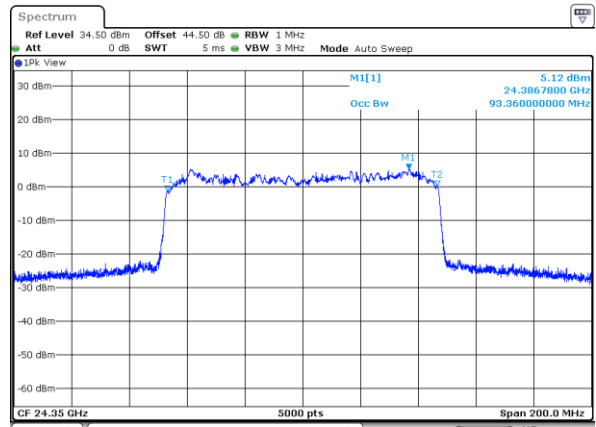
Date: 25.JUL.2020 05:13:06

## Middle Channel / 50MHz / 64QAM



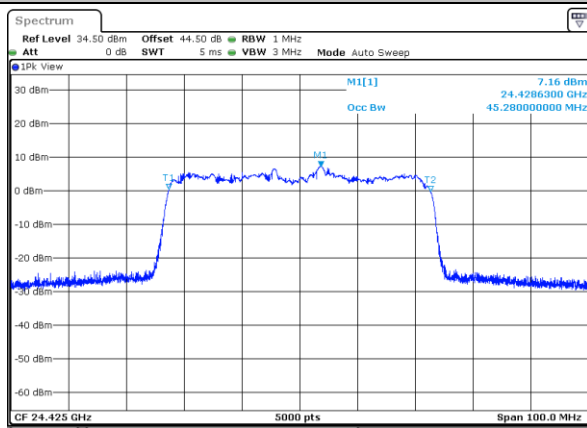
Date: 25.JUL.2020 06:16:20

## Middle Channel / 100MHz / QPSK



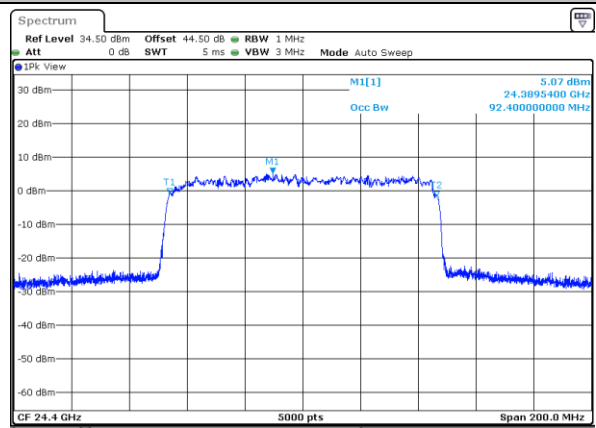
Date: 25.JUL.2020 06:46:26

## Highest Channel / 50MHz / 64QAM



Date: 25.JUL.2020 13:35:39

## Highest Channel / 100MHz / QPSK



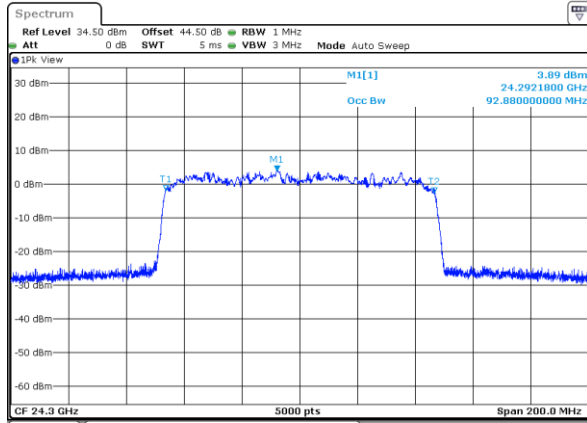
Date: 25.JUL.2020 19:06:27



## CP-OFDM Module 1

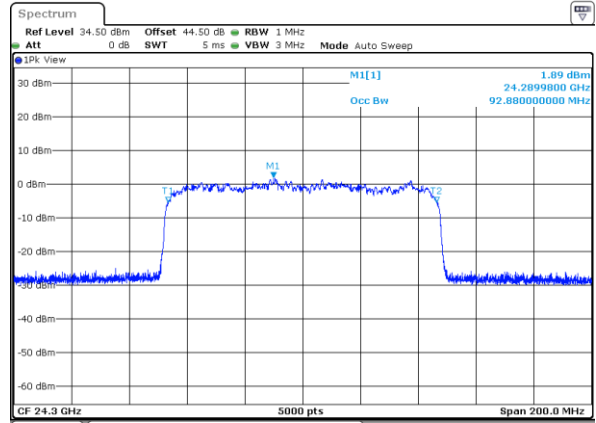
## NR Band n258a

## Lowest Channel / 100MHz / 16QAM



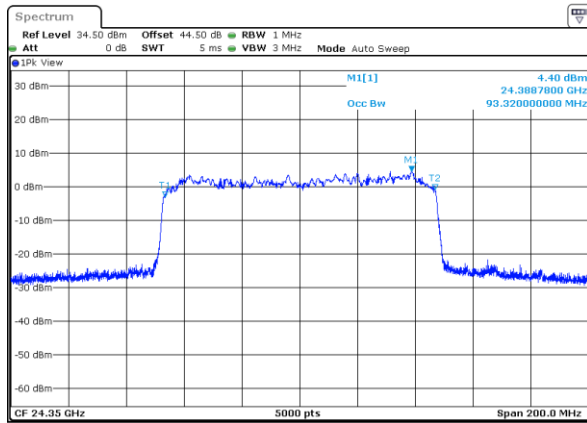
Date: 25.JUL.2020 05:14:33

## Lowest Channel / 100MHz / 64QAM



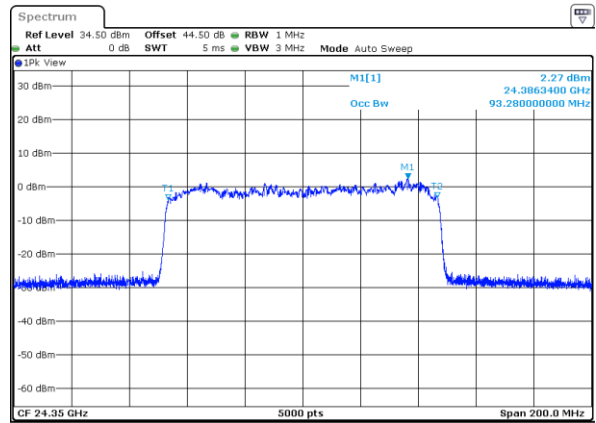
Date: 25.JUL.2020 05:16:02

## Middle Channel / 100MHz / 16QAM



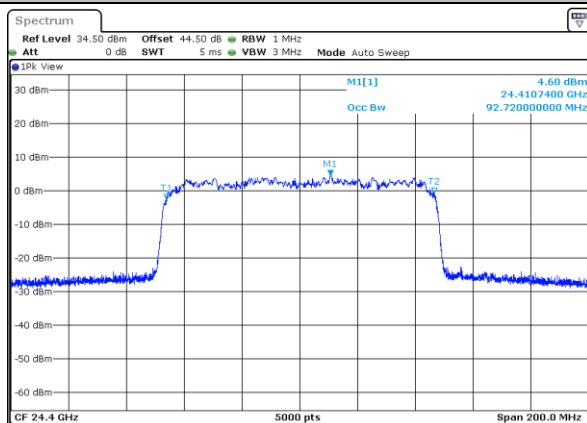
Date: 25.JUL.2020 06:47:30

## Middle Channel / 100MHz / 64QAM



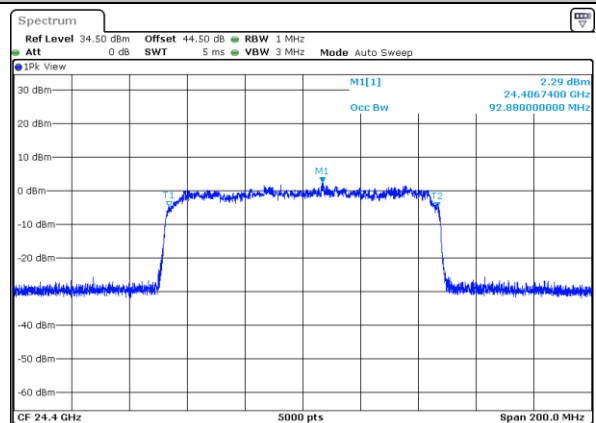
Date: 25.JUL.2020 06:48:20

## Highest Channel / 100MHz / 16QAM



Date: 25.JUL.2020 19:10:48

## Highest Channel / 100MHz / 64QAM



Date: 25.JUL.2020 19:12:04

## Radiated Out of Band Emissions

| Mode        |         |       | DFT-s-OFDM Module 1 NR Band n258a: BE (dBm) 1 RB |        |        |        |        |        |        |        |
|-------------|---------|-------|--------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| BW          |         |       | 50MHz                                            |        |        |        | 100MHz |        |        |        |
| Limit (dBm) |         |       | BPSK                                             | QPSK   | 16QAM  | 64QAM  | BPSK   | QPSK   | 16QAM  | 64QAM  |
| Low CH      | 0~10%OB | ≤ -5  | -20.94                                           | -22.2  | -21.27 | -24.52 | -24.12 | -23.57 | -24.17 | -25.96 |
|             | >10%OB  | ≤ -13 | -34.38                                           | -33.98 | -34.32 | -34.66 | -34.5  | -34.6  | -34.73 | -34.89 |
| High CH     | 0~10%OB | ≤ -5  | -20.80                                           | -19.06 | -22.11 | -23.50 | -25.45 | -23.73 | -23.15 | -26.74 |
|             | >10%OB  | ≤ -13 | -34.58                                           | -34.32 | -34.76 | -34.90 | -35.07 | -35.14 | -35.21 | -35.09 |
| Result      |         |       | Compliance                                       |        |        |        |        |        |        |        |

| Mode        |         |       | CP-OFDM Module 1 NR Band n258a: BE (dBm) 1 RB |        |        |        |        |        |
|-------------|---------|-------|-----------------------------------------------|--------|--------|--------|--------|--------|
| BW          |         |       | 50MHz                                         |        |        | 100MHz |        |        |
| Limit (dBm) |         |       | QPSK                                          | 16QAM  | 64QAM  | QPSK   | 16QAM  | 64QAM  |
| Low CH      | 0~10%OB | ≤ -5  | -22.6                                         | -24.63 | -26.43 | -25.32 | -24.6  | -28.99 |
|             | >10%OB  | ≤ -13 | -34.63                                        | -34.76 | -34.71 | -34.75 | -34.7  | -34.79 |
| High CH     | 0~10%OB | ≤ -5  | -21.57                                        | -27.93 | -27.08 | -23.59 | -24.99 | -27.98 |
|             | >10%OB  | ≤ -13 | -34.88                                        | -34.96 | -35.14 | -35.09 | -35.15 | -35.20 |
| Result      |         |       | Compliance                                    |        |        |        |        |        |

| Mode        |         |       | DFT-s-OFDM Module 1 NR Band n258a: BE (dBm) Full RB |        |        |        |        |        |        |        |
|-------------|---------|-------|-----------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| BW          |         |       | 50MHz                                               |        |        |        | 100MHz |        |        |        |
| Limit (dBm) |         |       | BPSK                                                | QPSK   | 16QAM  | 64QAM  | BPSK   | QPSK   | 16QAM  | 64QAM  |
| Low CH      | 0~10%OB | ≤ -5  | -33.7                                               | -31.93 | -32.3  | -33.41 | -33.34 | -31.1  | -32.73 | -34    |
|             | >10%OB  | ≤ -13 | -33.46                                              | -32.00 | -32.84 | -32.9  | -34.4  | -33.12 | -33.28 | -34.32 |
| High CH     | 0~10%OB | ≤ -5  | -30.78                                              | -28.40 | -29.41 | -31.68 | -30.91 | -31.43 | -31.82 | -33.73 |
|             | >10%OB  | ≤ -13 | -33.7                                               | -30.12 | -30.9  | -33.42 | -31.81 | -32.47 | -32.83 | -34.31 |
| Result      |         |       | Compliance                                          |        |        |        |        |        |        |        |

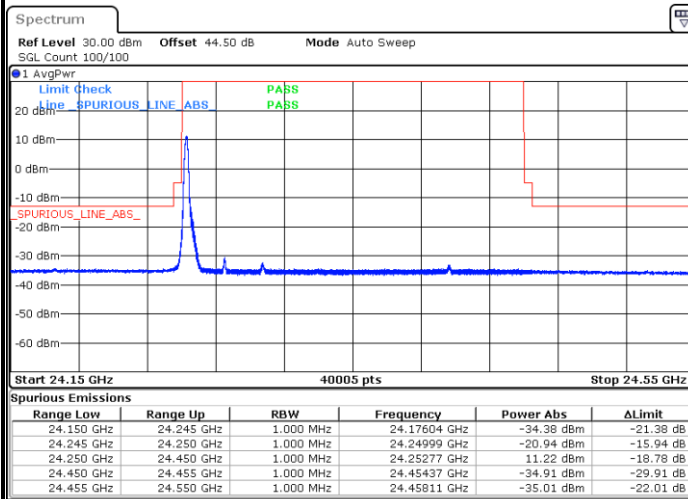
| Mode        |         |       | CP-OFDM Module 1 NR Band n258a: BE (dBm) Full RB |        |        |        |        |        |
|-------------|---------|-------|--------------------------------------------------|--------|--------|--------|--------|--------|
| BW          |         |       | 50MHz                                            |        |        | 100MHz |        |        |
| Limit (dBm) |         |       | QPSK                                             | 16QAM  | 64QAM  | QPSK   | 16QAM  | 64QAM  |
| Low CH      | 0~10%OB | ≤ -5  | -30.14                                           | -31.23 | -33.36 | -32.5  | -33.02 | -34.36 |
|             | >10%OB  | ≤ -13 | -31.60                                           | -32.98 | -34.39 | -32.95 | -33.77 | -34.52 |
| High CH     | 0~10%OB | ≤ -5  | -28.38                                           | -29.98 | -32.69 | -31.86 | -32.63 | -34.48 |
|             | >10%OB  | ≤ -13 | -30.09                                           | -31.23 | -33.84 | -32.07 | -33.44 | -34.54 |
| Result      |         |       | Compliance                                       |        |        |        |        |        |



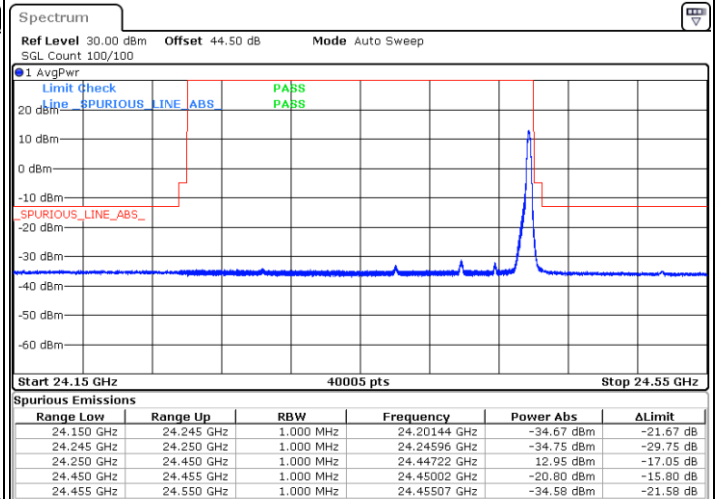
## DFT-s-OFDM Module 1

## NR Band n258a/ 50MHz / BPSK

## Lowest Band Edge / 1 RB

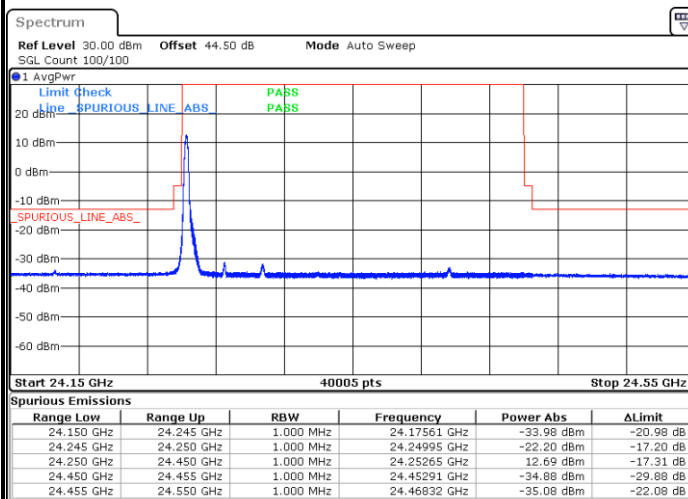


## Highest Band Edge / 1 RB

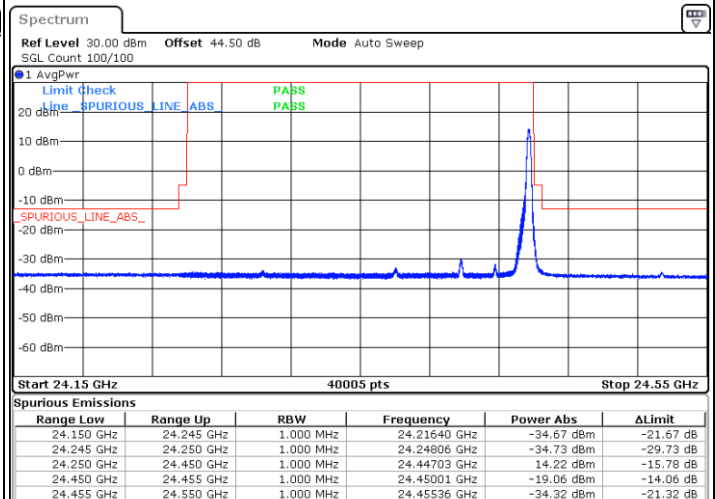


## NR Band n258a/ 50MHz / QPSK

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB

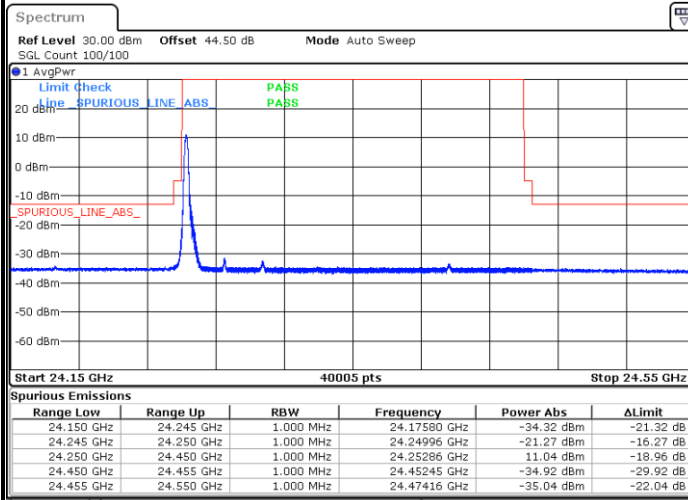




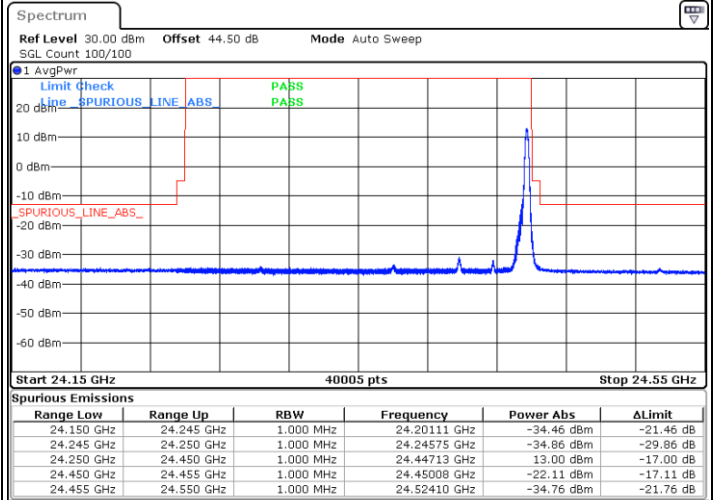
## DFT-s-OFDM Module 1

## NR Band n258a/ 50MHz / 16QAM

## Lowest Band Edge / 1 RB

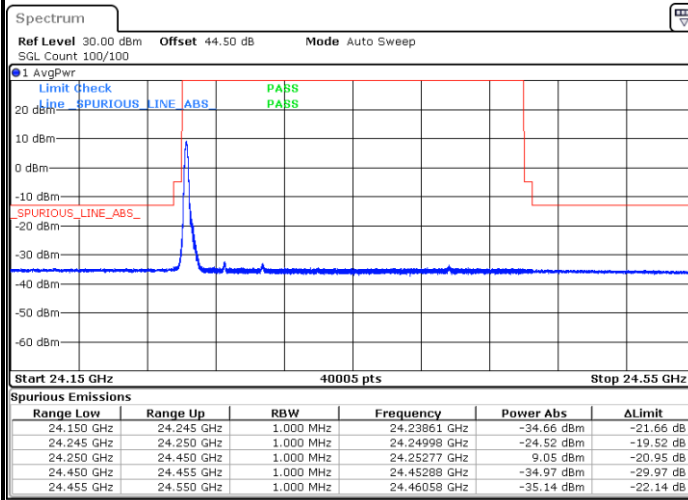


## Highest Band Edge / 1 RB

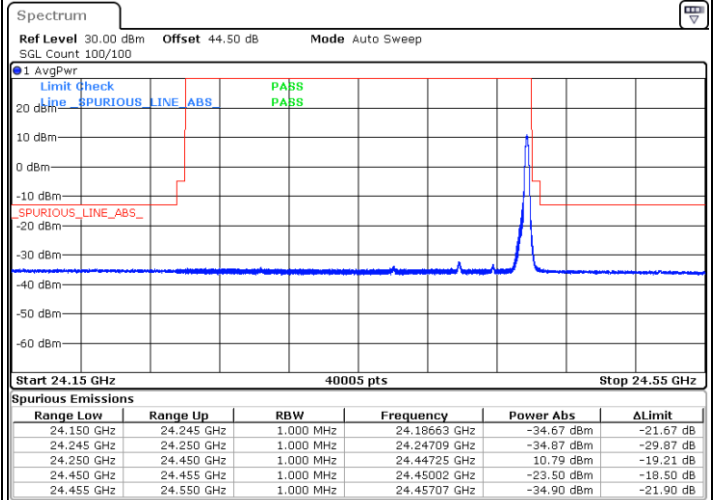


## NR Band n258a/ 50MHz / 64QAM

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



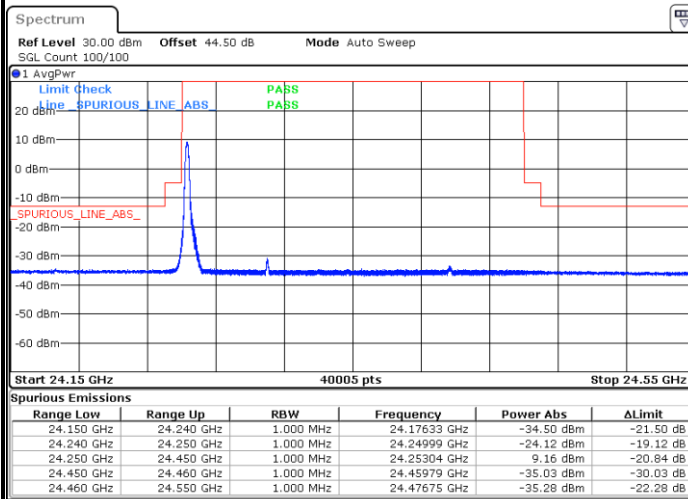




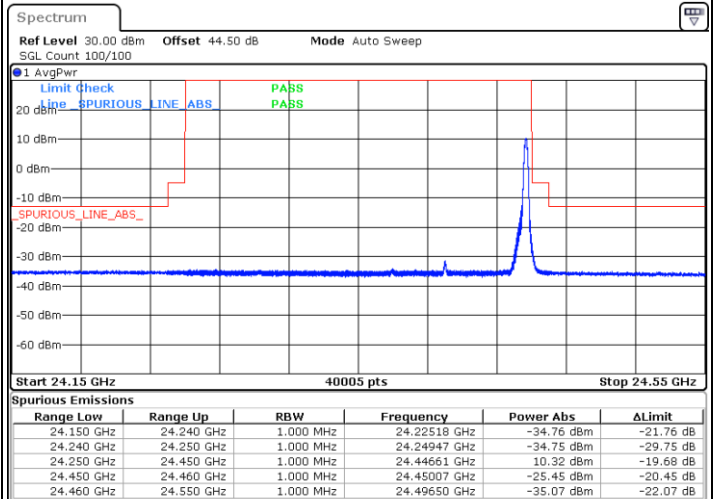
## DFT-s-OFDM Module 1

## NR Band n258a/ 100MHz / BPSK

## Lowest Band Edge / 1 RB

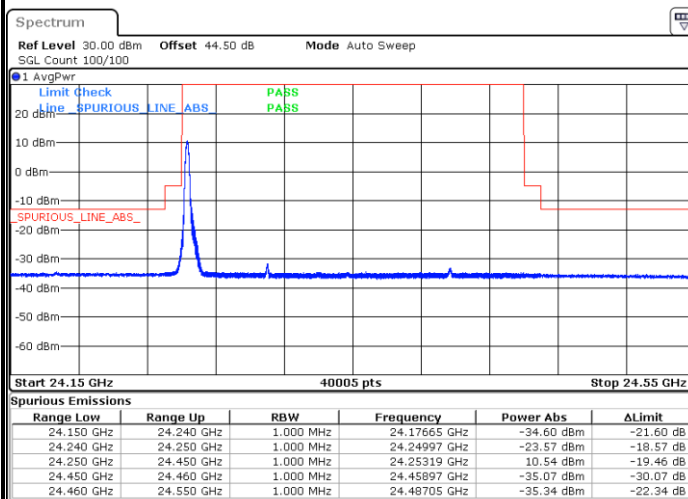


## Highest Band Edge / 1 RB

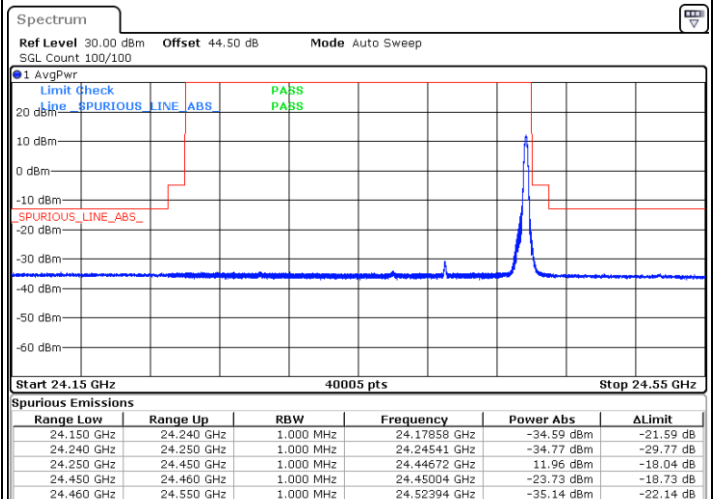


## NR Band n258a/ 100MHz / QPSK

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB

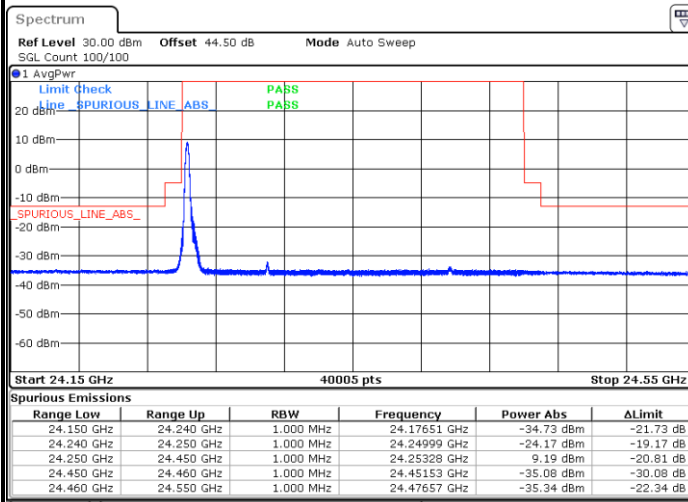




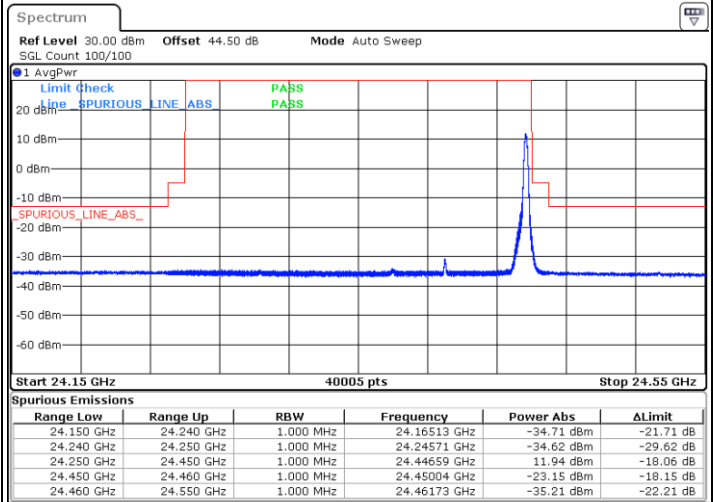
## DFT-s-OFDM Module 1

## NR Band n258a/ 100MHz / 16QAM

## Lowest Band Edge / 1 RB

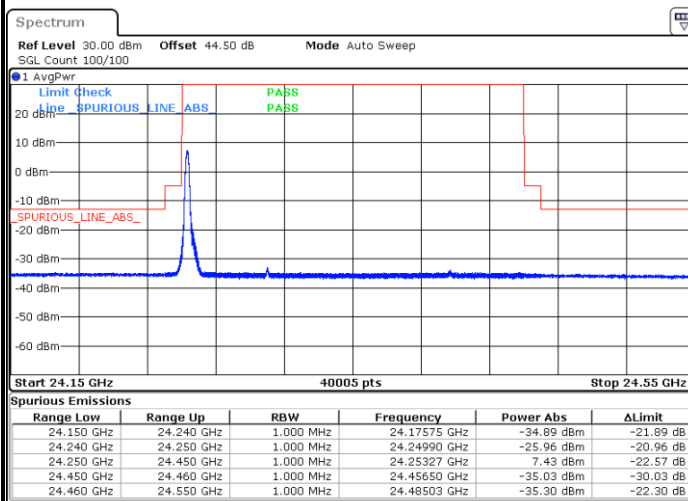


## Highest Band Edge / 1 RB

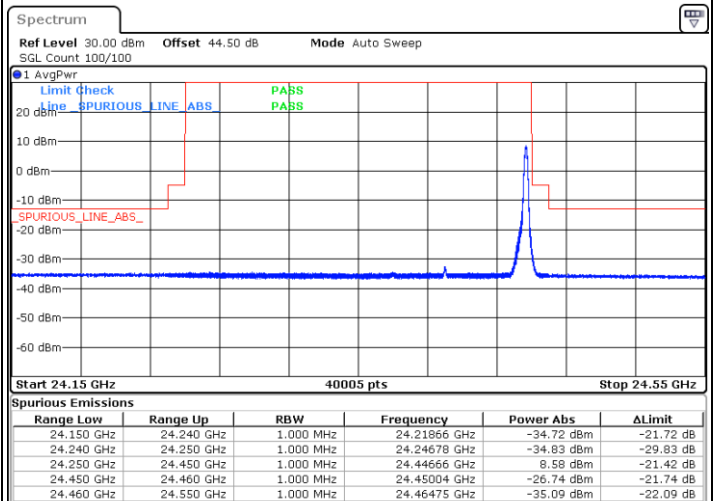


## NR Band n258a/ 100MHz / 64QAM

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB

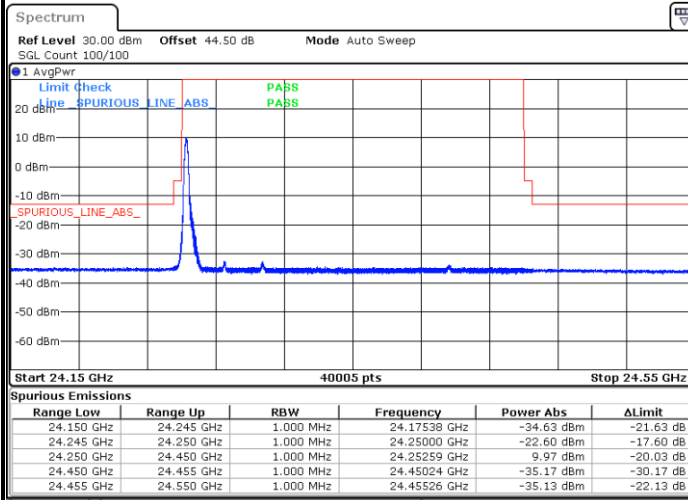




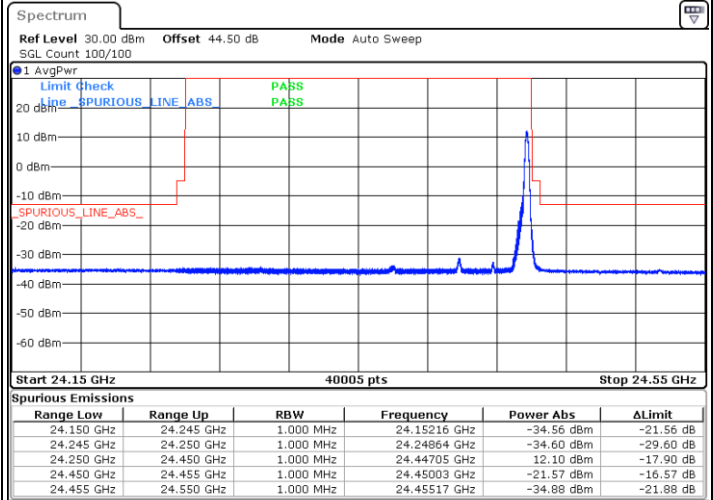
## CP-OFDM Module 1

## NR Band n258a/ 50MHz / QPSK

## Lowest Band Edge / 1 RB

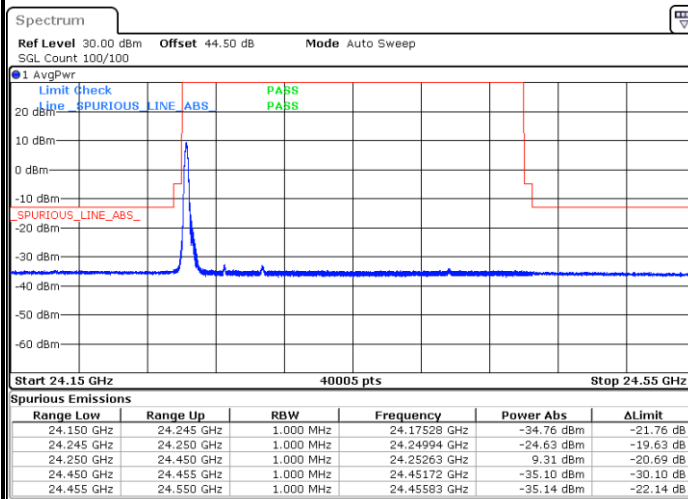


## Highest Band Edge / 1 RB

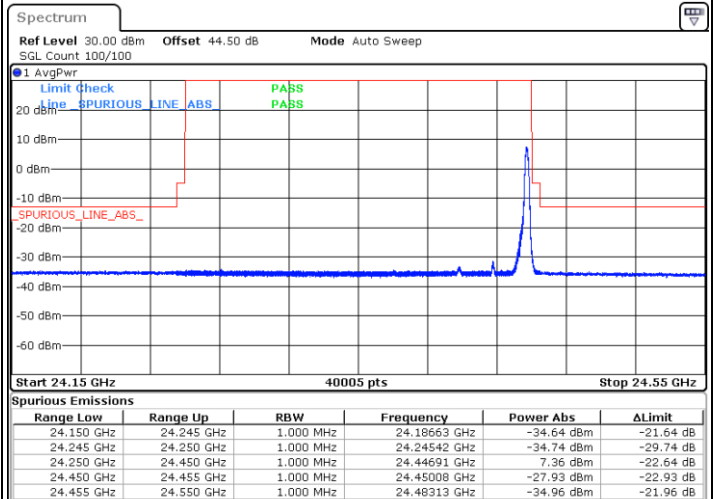


## NR Band n258a/ 50MHz / 16QAM

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB

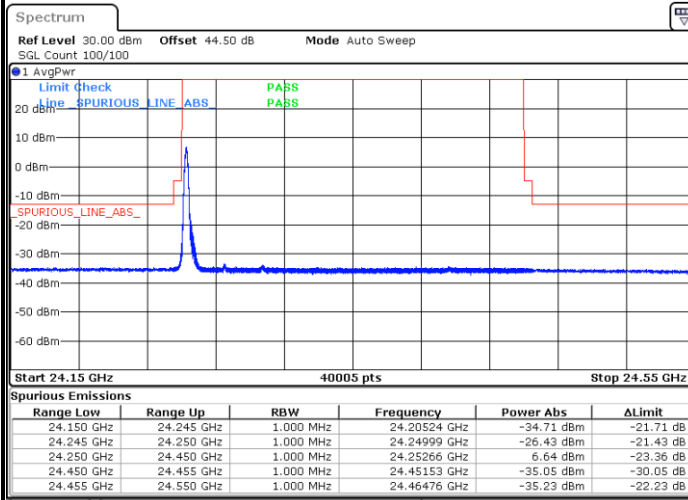




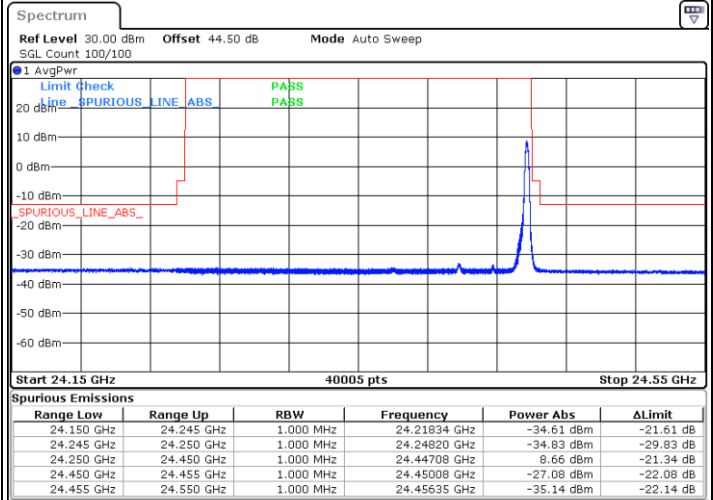
## CP-OFDM Module 1

## NR Band n258a/ 50MHz / 64QAM

## Lowest Band Edge / 1 RB

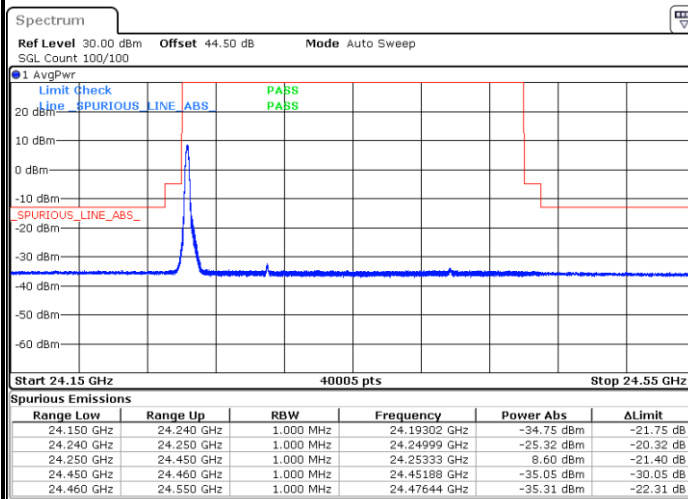


## Highest Band Edge / 1 RB

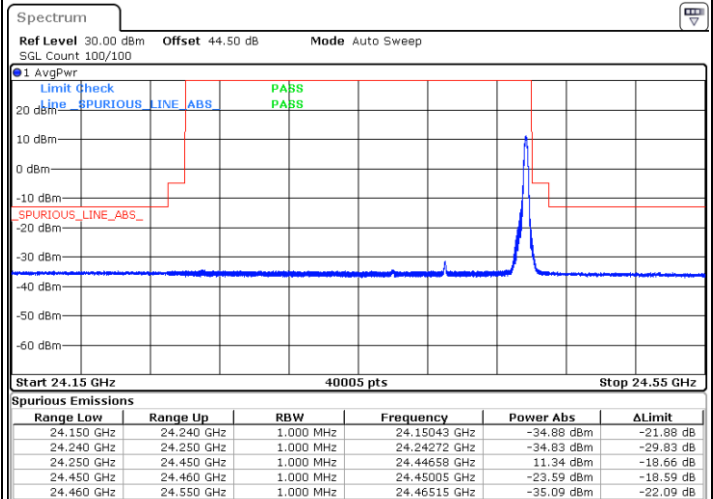


## NR Band n258a/ 100MHz / QPSK

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB

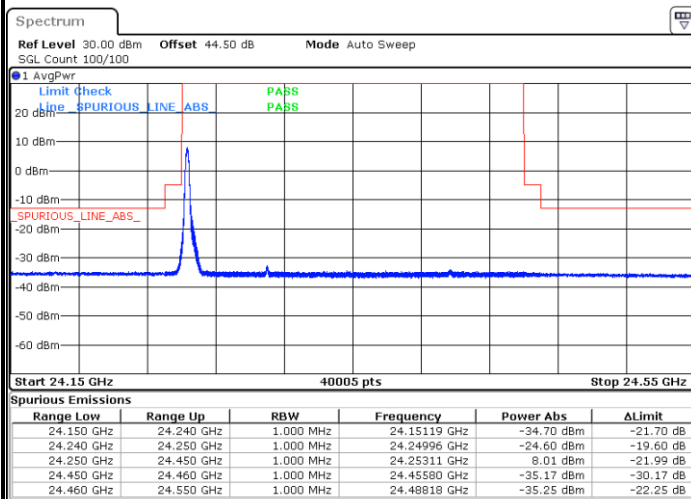




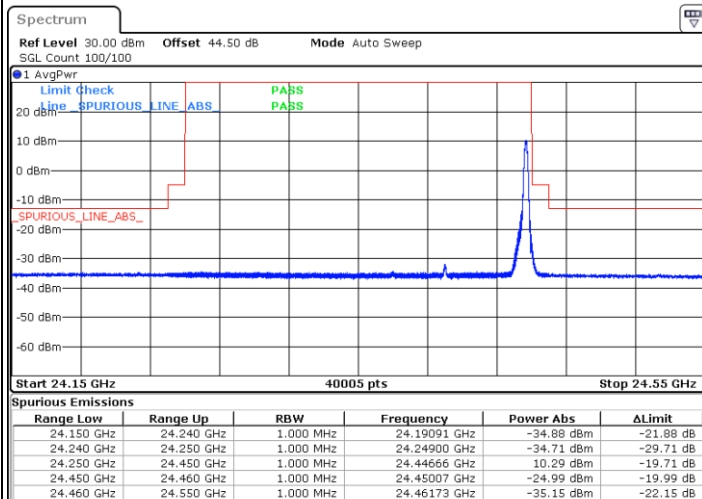
## CP-OFDM Module 1

## NR Band n258a/ 100MHz / 16QAM

## Lowest Band Edge / 1 RB

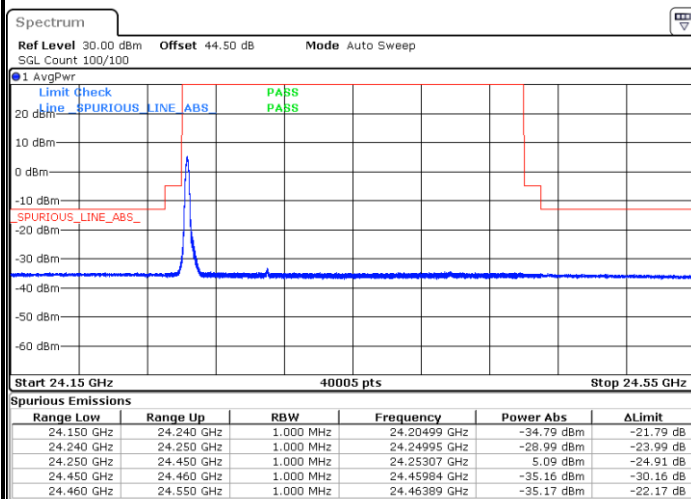


## Highest Band Edge / 1 RB

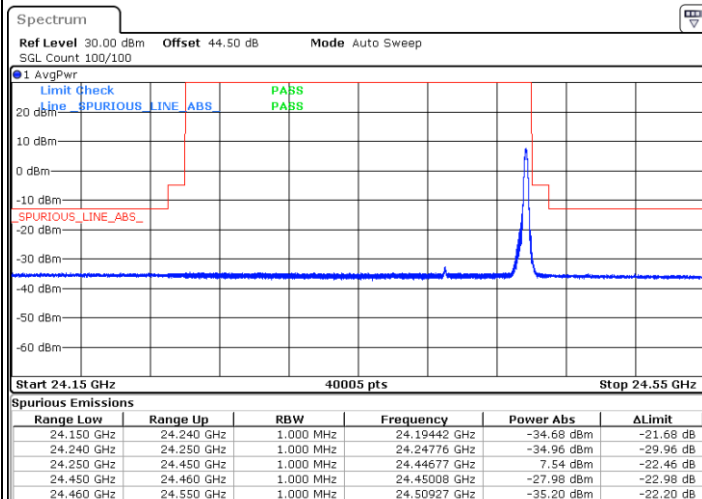


## NR Band n258a/ 100MHz / 64QAM

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB

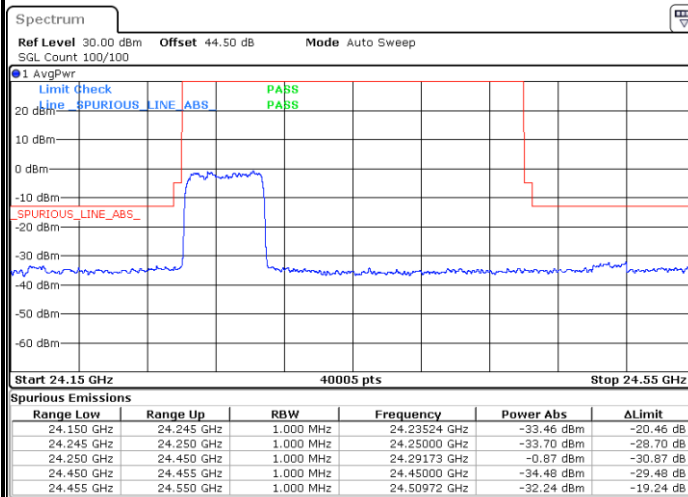




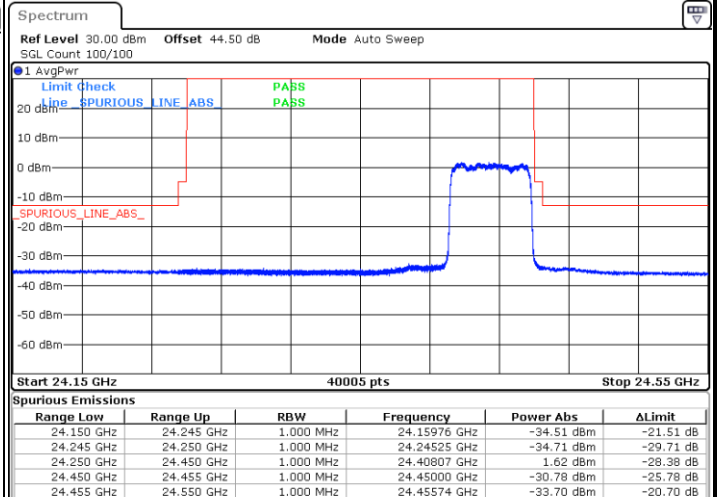
## DFT-s-OFDM Module 1

## NR Band n258a/ 50MHz / BPSK

## Lowest Band Edge / Full RB

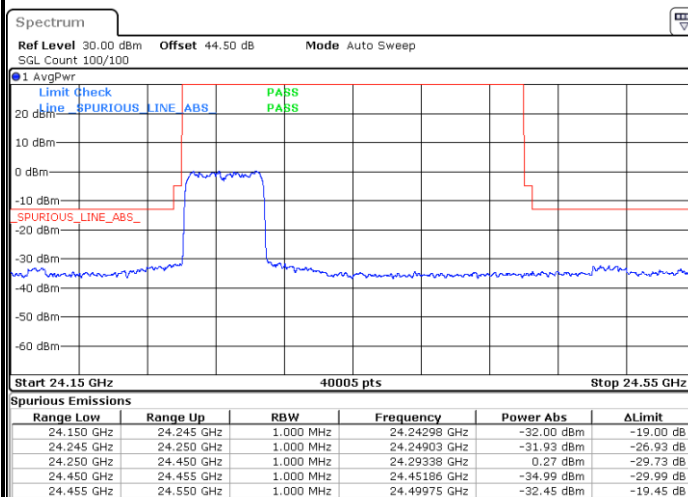


## Highest Band Edge / Full RB

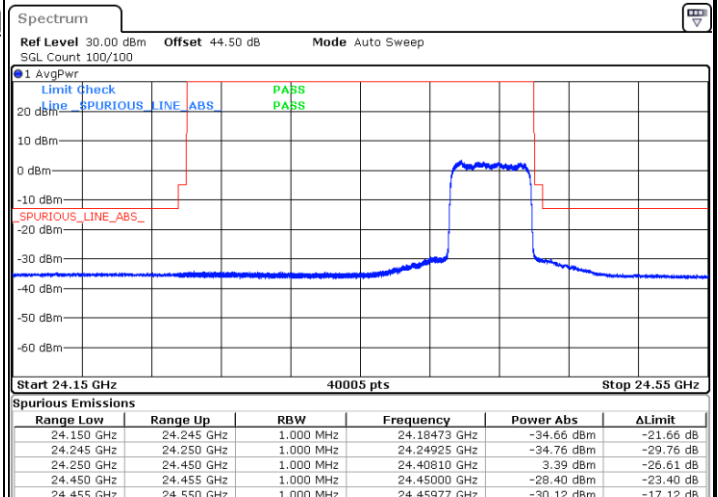


## NR Band n258a/ 50MHz / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

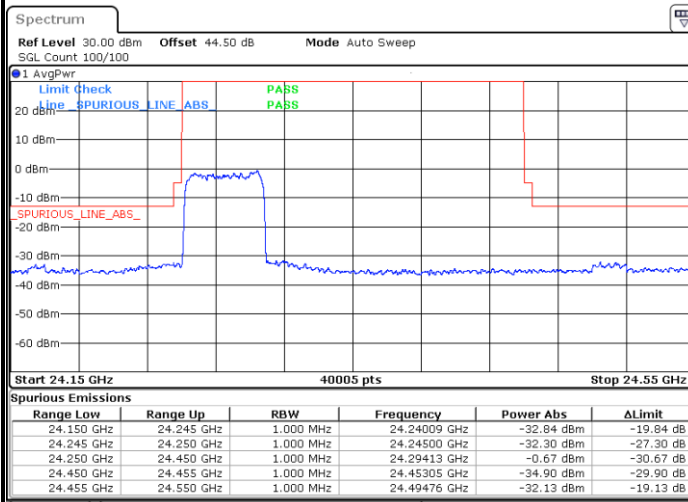




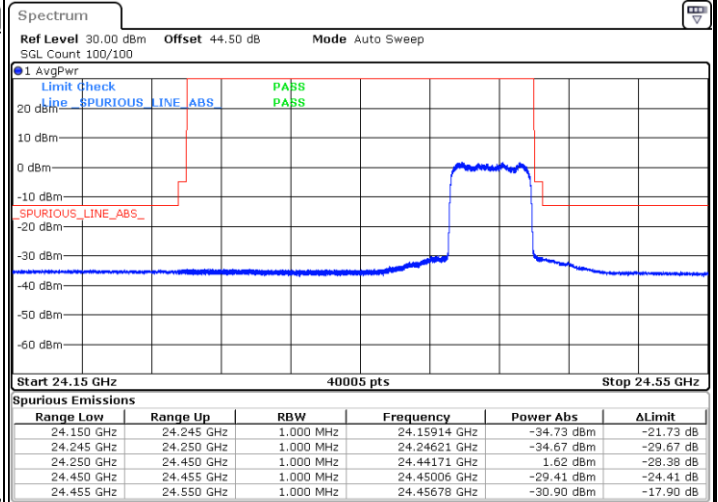
## DFT-s-OFDM Module 1

## NR Band n258a/ 50MHz / 16QAM

## Lowest Band Edge / Full RB

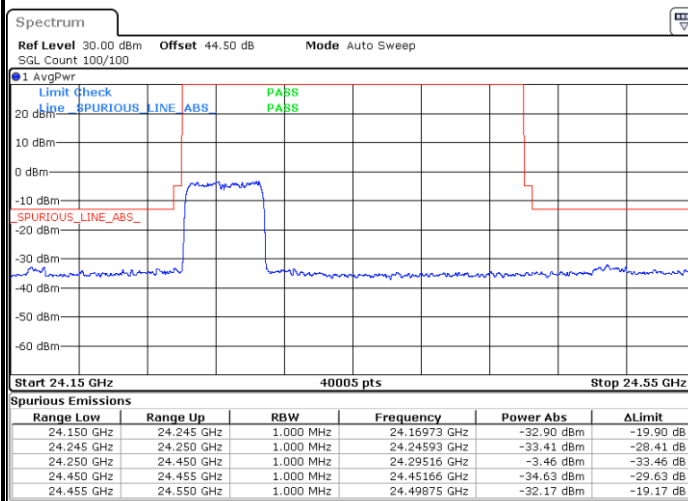


## Highest Band Edge / Full RB

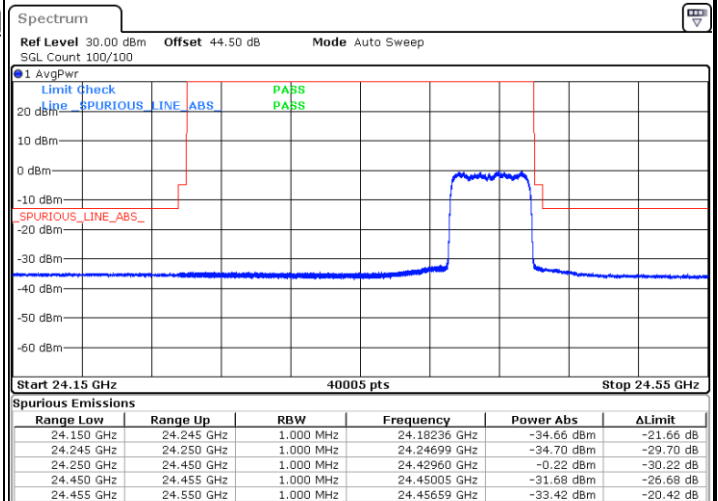


## NR Band n258a/ 50MHz / 64QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



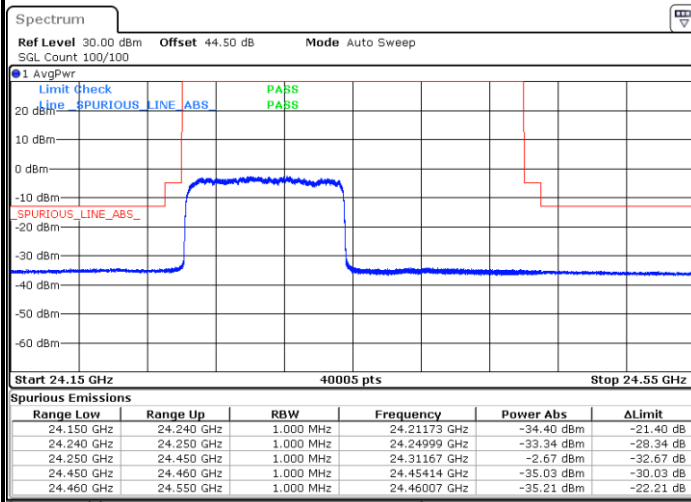




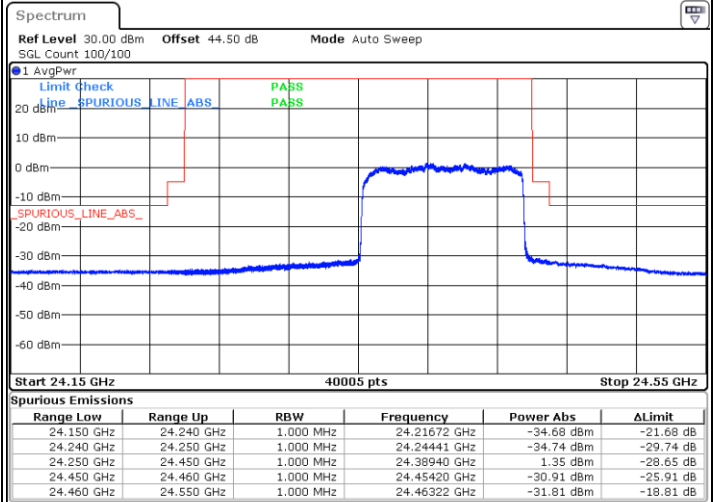
## DFT-s-OFDM Module 1

## NR Band n258a/ 100MHz / BPSK

## Lowest Band Edge / Full RB

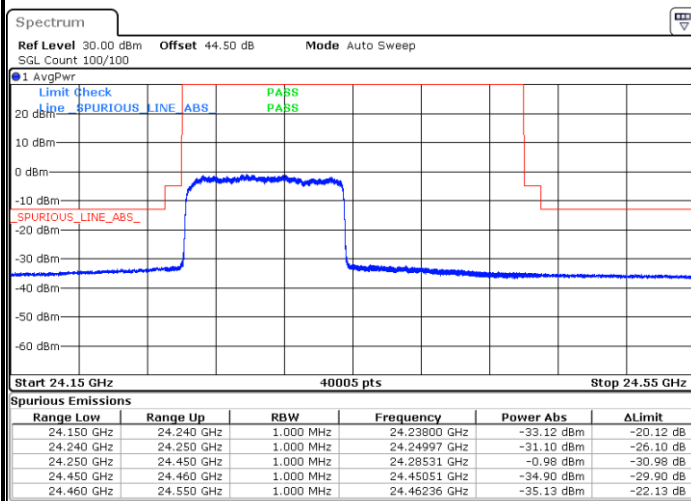


## Highest Band Edge / Full RB

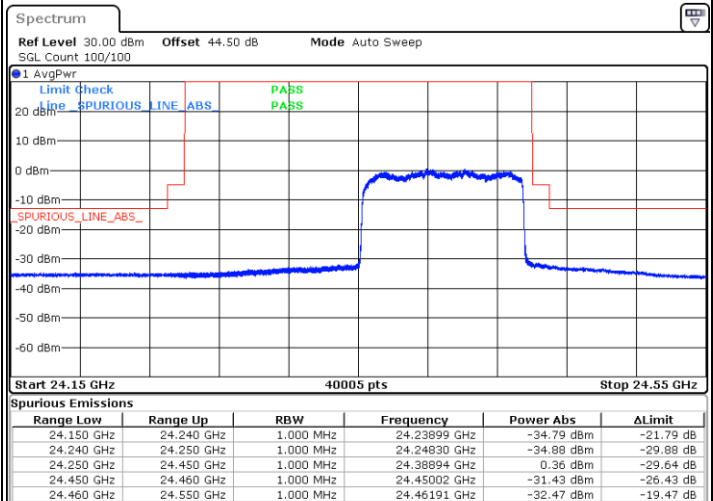


## NR Band n258a/ 100MHz / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



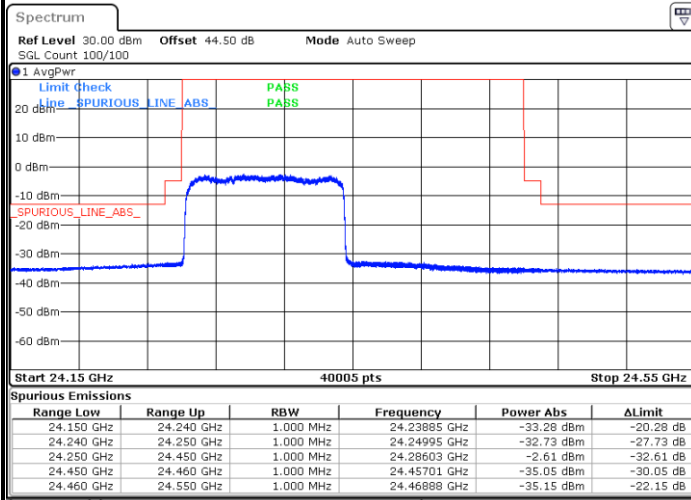




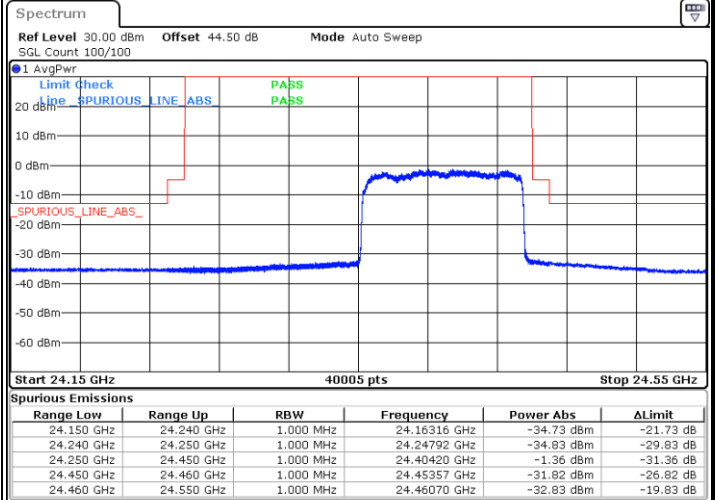
## DFT-s-OFDM Module 1

## NR Band n258a/ 100MHz / 16QAM

## Lowest Band Edge / Full RB

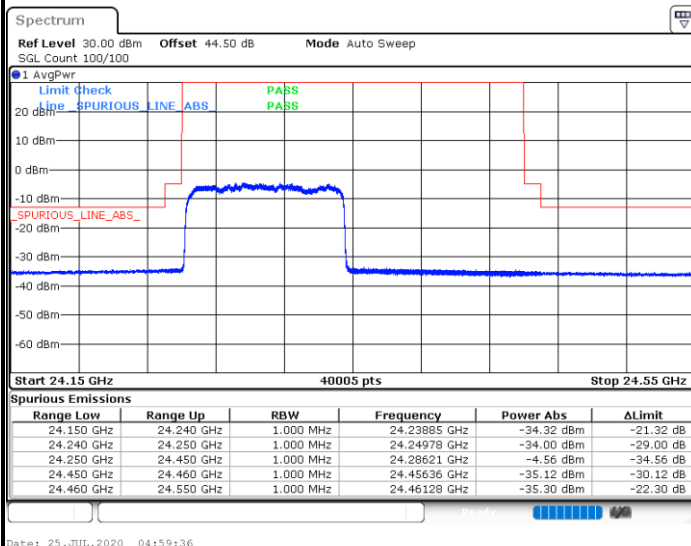


## Highest Band Edge / Full RB

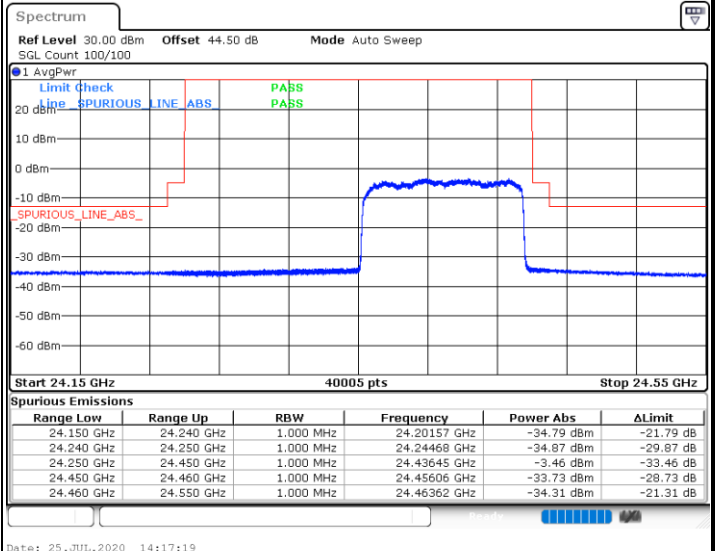


## NR Band n258a/ 100MHz / 64QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

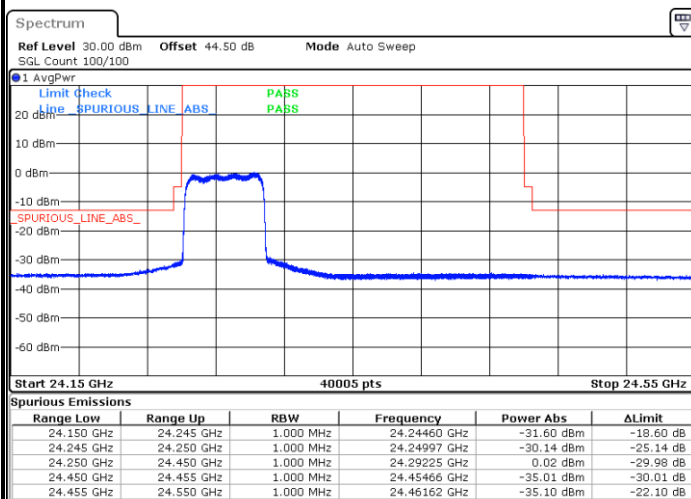




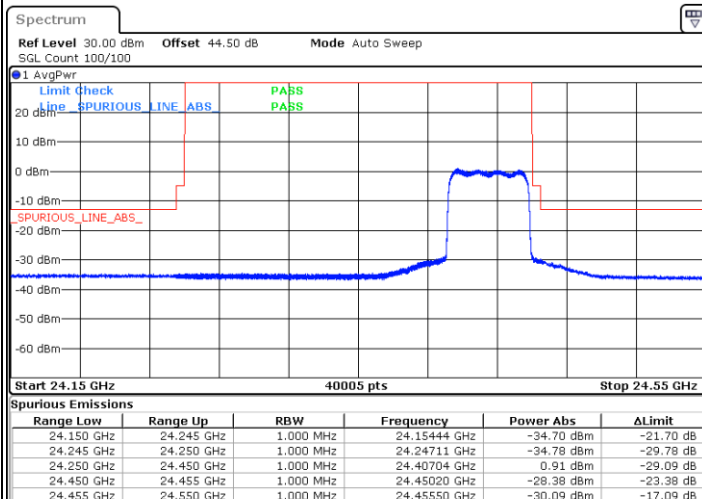
## CP-OFDM Module 1

## NR Band n258a/ 50MHz / QPSK

## Lowest Band Edge / Full RB

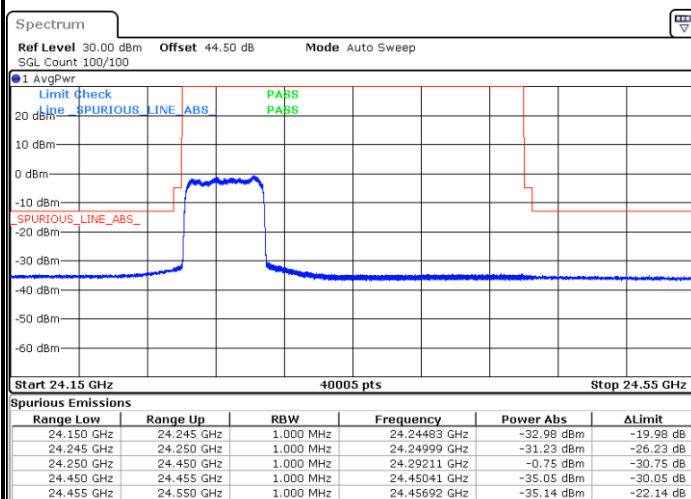


## Highest Band Edge / Full RB

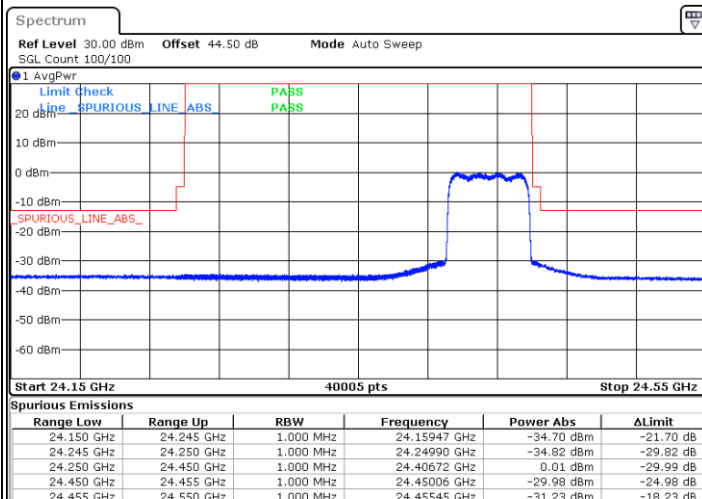


## NR Band n258a/ 50MHz / 16QAM

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

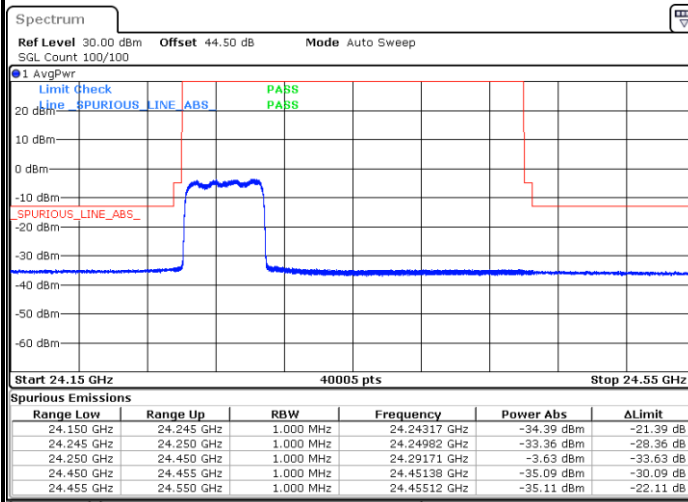




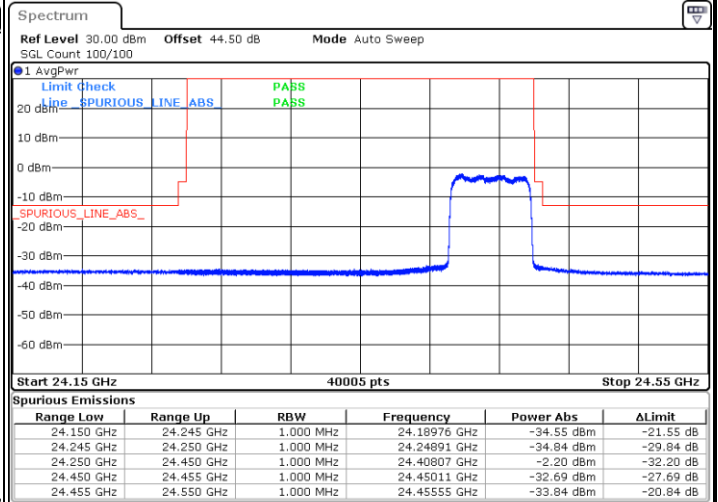
## CP-OFDM Module 1

## NR Band n258a/ 50MHz / 64QAM

## Lowest Band Edge / Full RB

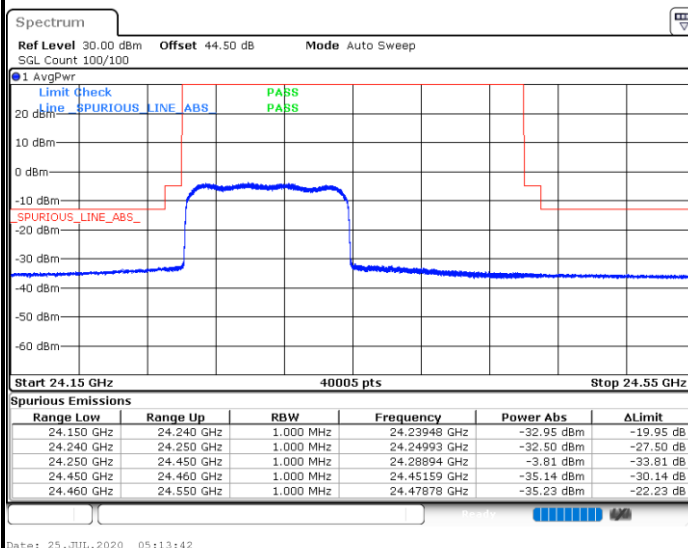


## Highest Band Edge / Full RB

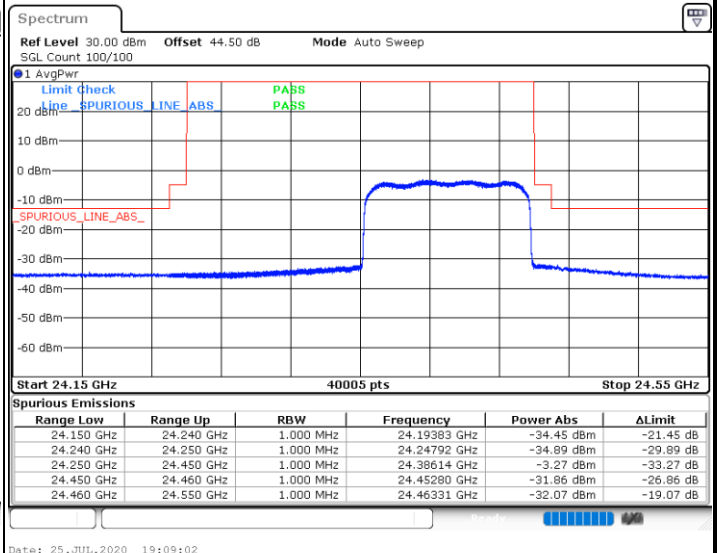


## NR Band n258a/ 100MHz / QPSK

## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

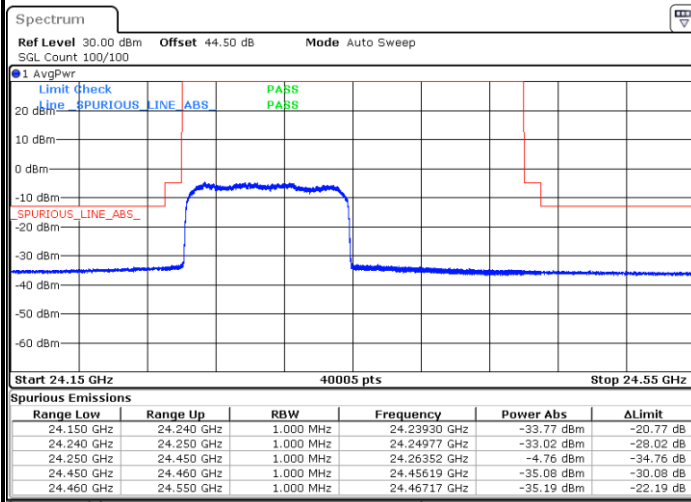




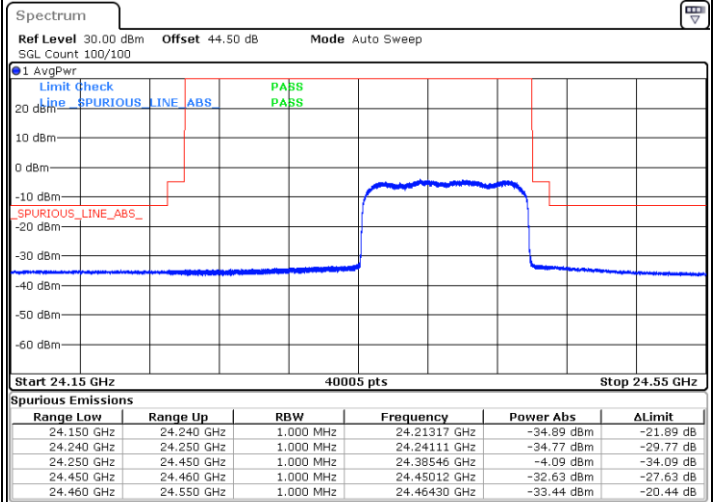
## CP-OFDM Module 1

## NR Band n258a/ 100MHz / 16QAM

## Lowest Band Edge / Full RB

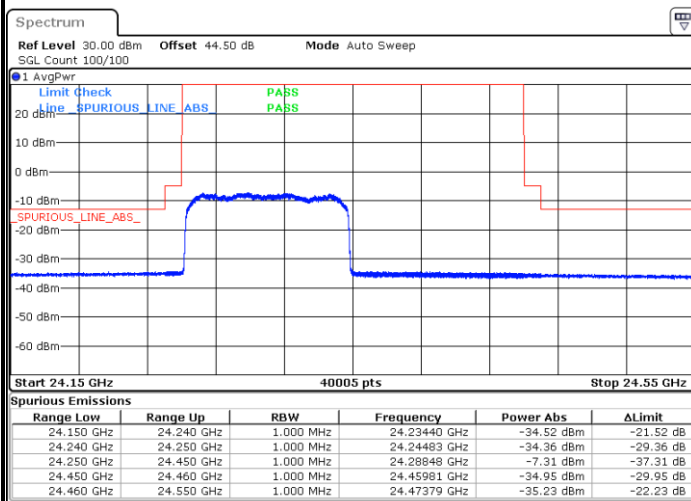


## Highest Band Edge / Full RB

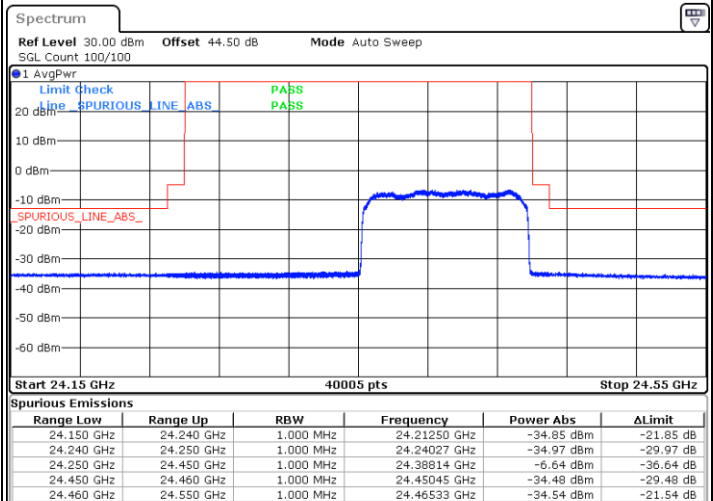


## NR Band n258a/ 100MHz / 64QAM

## Lowest Band Edge / Full RB



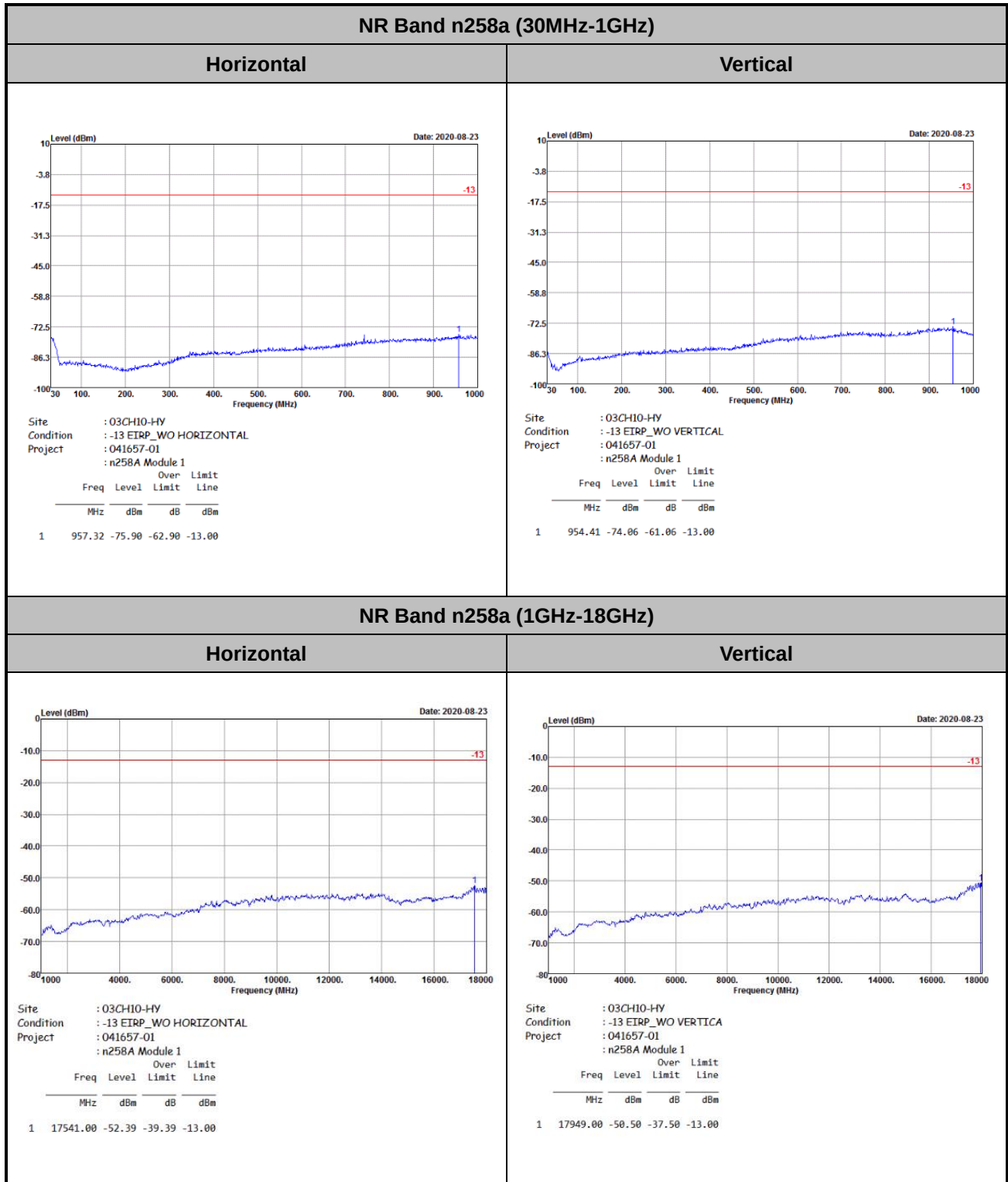
## Highest Band Edge / Full RB



## Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

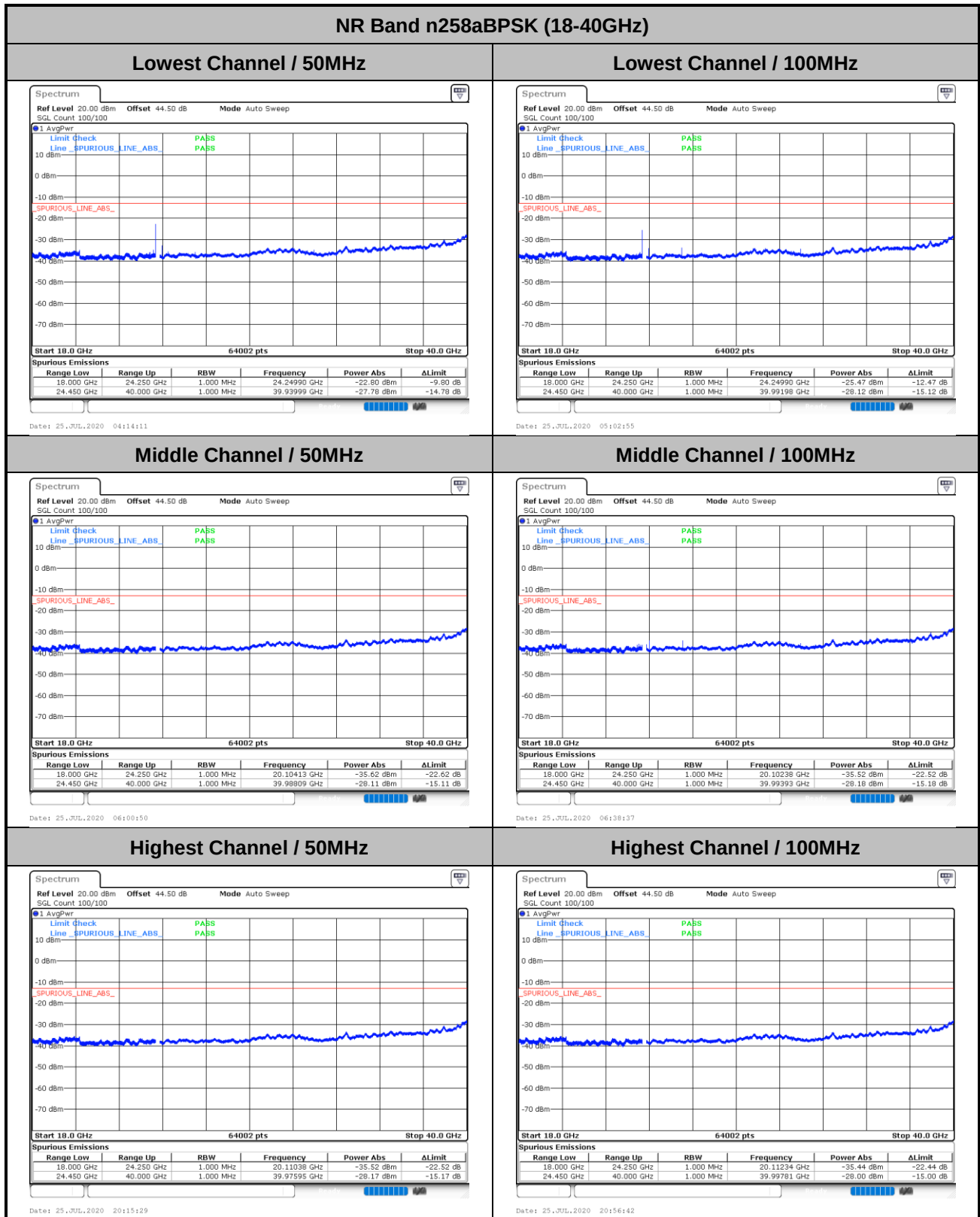
Only the noise floor is reported.





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

### DFT-s-OFDM Module 1

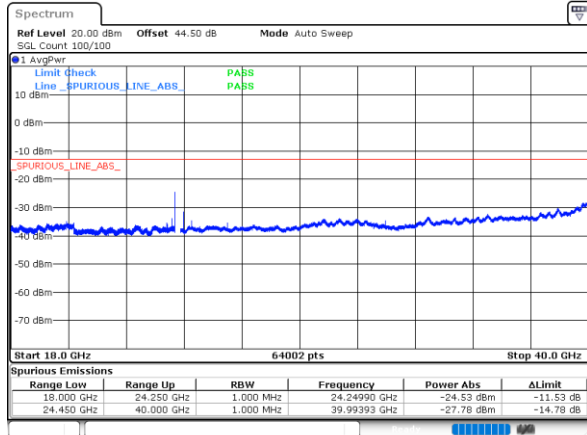




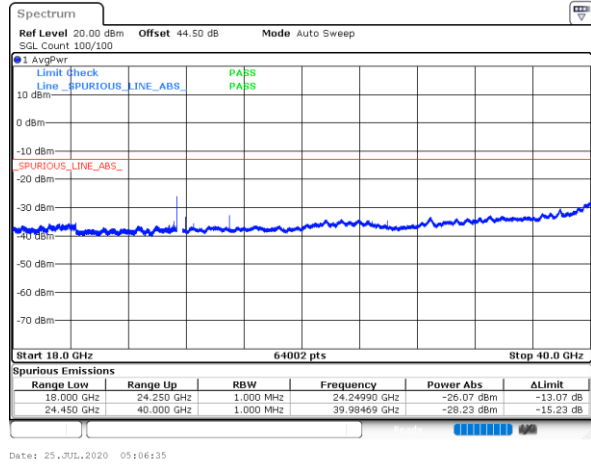
## DFT-s-OFDM Module 1

## NR Band n258aQPSK (18-40GHz)

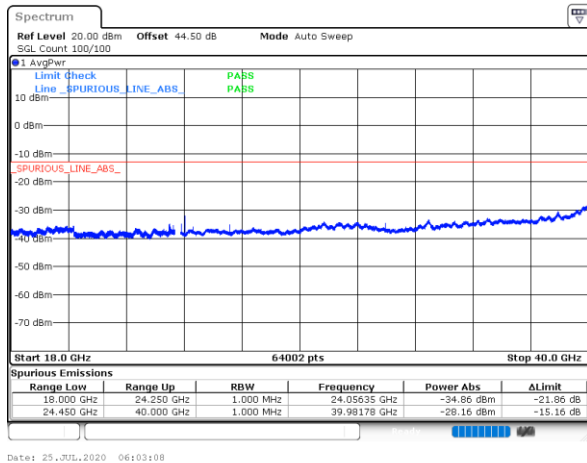
## Lowest Channel / 50MHz



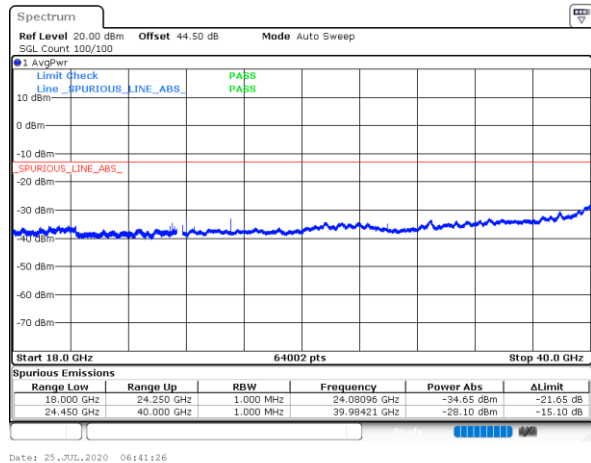
## Lowest Channel / 100MHz



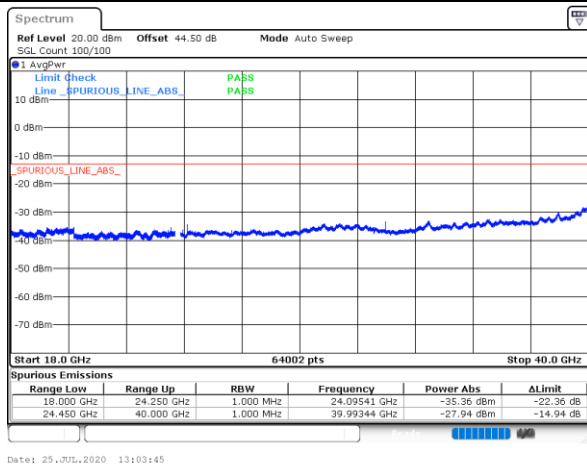
## Middle Channel / 50MHz



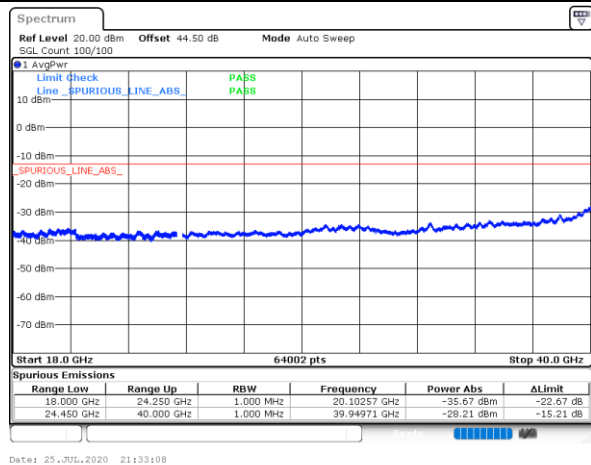
## Middle Channel / 100MHz



## Highest Channel / 50MHz



## Highest Channel / 100MHz

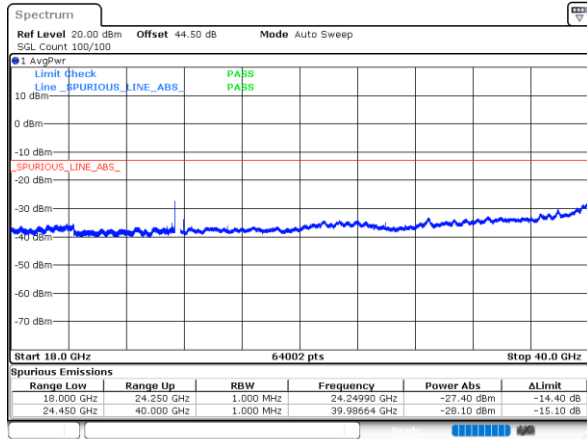




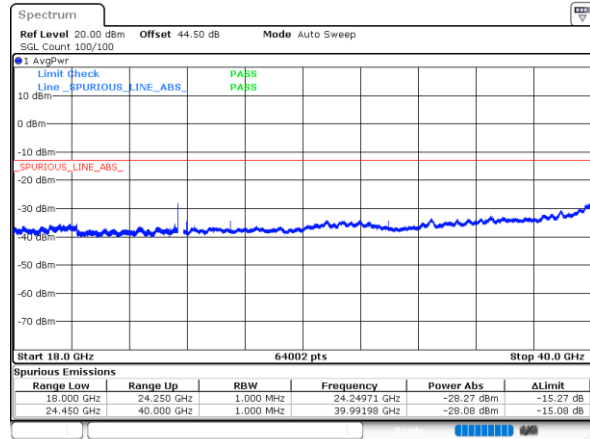
## CP-OFDM Module 1

## NR Band n258aQPSK (18-40GHz)

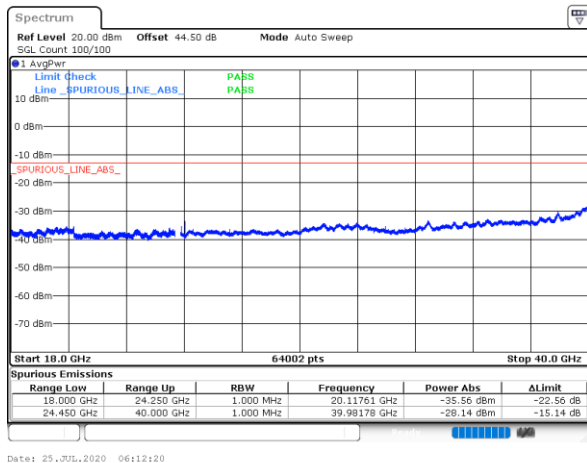
## Lowest Channel / 50MHz



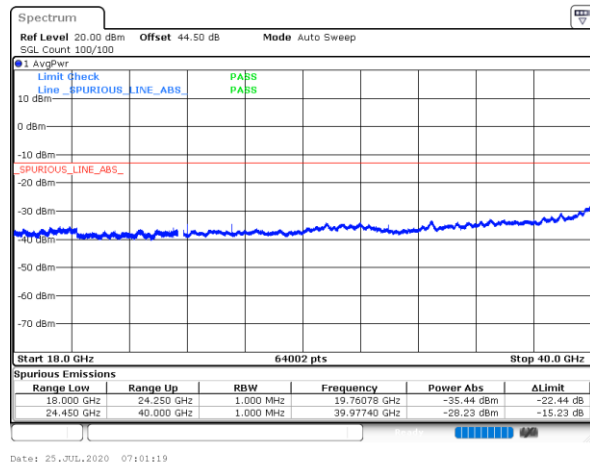
## Lowest Channel / 100MHz



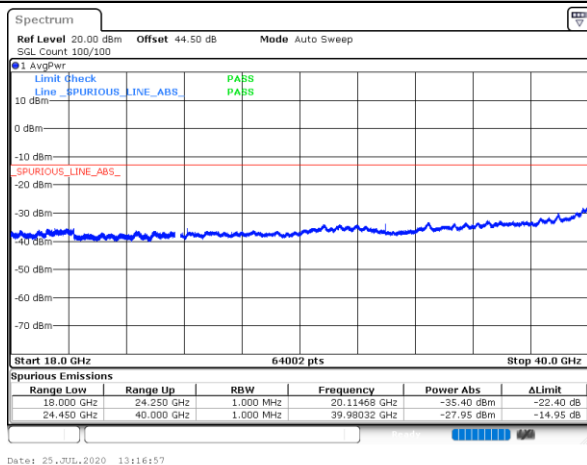
## Middle Channel / 50MHz



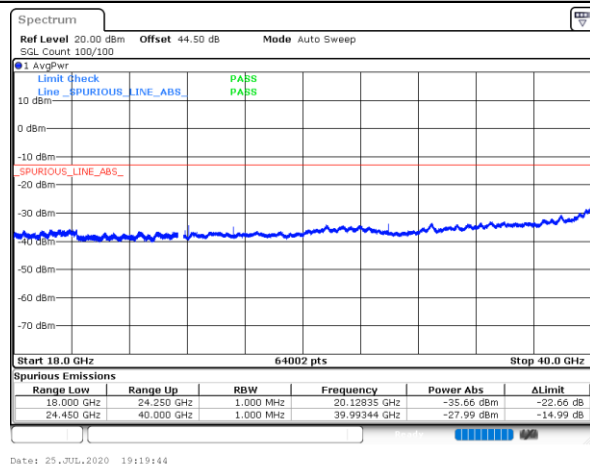
## Middle Channel / 100MHz



## Highest Channel / 50MHz



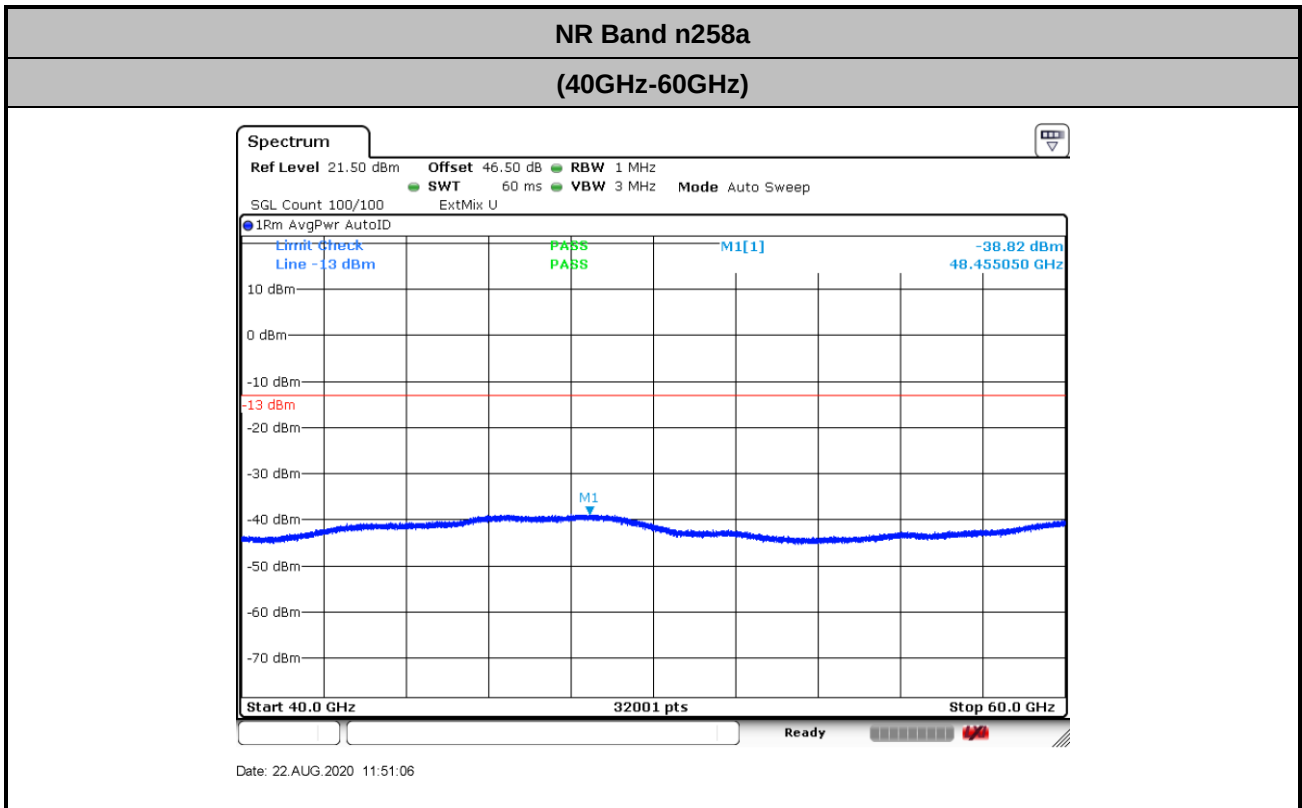
## Highest Channel / 100MHz



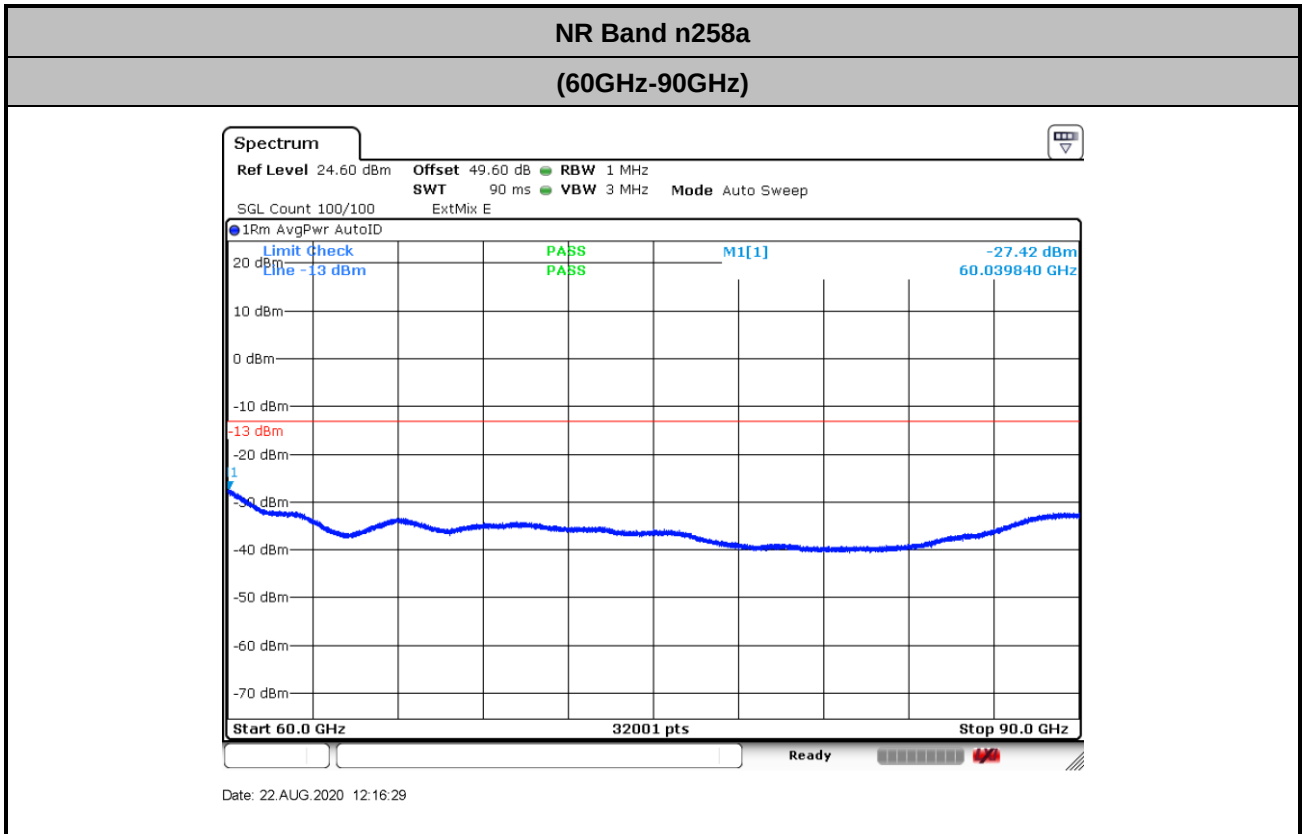




There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.  
Only the noise floor is reported.



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}\end{aligned}$$

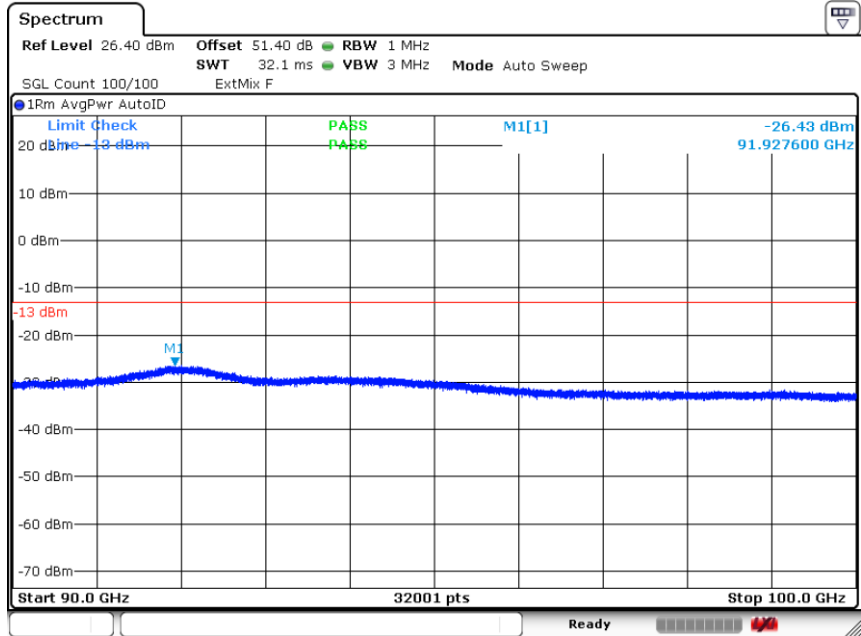


$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}\end{aligned}$$



NR Band n258a

(90GHz-100GHz)



Date: 22.AUG.2020 12:46:30

$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)}\end{aligned}$$



## NR Band n258a Module 1 AG0+1

**Occupied Bandwidth**

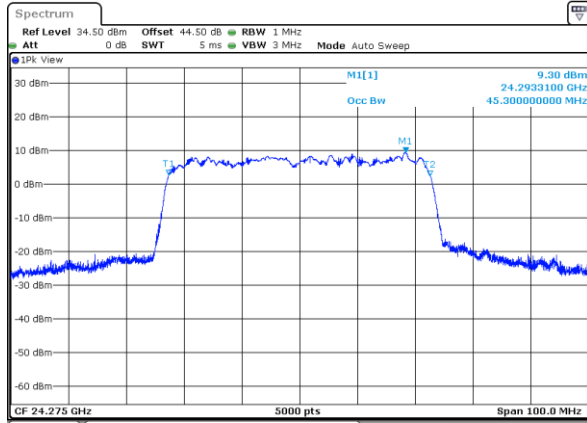
| Mode       | CP-OFDM Module 1 NR Band n258a: 99%OBW(MHz) |       |       |        |       |       |
|------------|---------------------------------------------|-------|-------|--------|-------|-------|
| BW         | 50MHz                                       |       |       | 100MHz |       |       |
| Mod.       | QPSK                                        | 16QAM | 64QAM | QPSK   | 16QAM | 64QAM |
| Lowest CH  | 45.30                                       | 45.18 | 45.14 | 92.68  | 93.04 | 92.44 |
| Middle CH  | 45.44                                       | 45.30 | 45.16 | 93.00  | 93.28 | 92.72 |
| Highest CH | 45.34                                       | 45.12 | 45.02 | 92.56  | 93.04 | 92.28 |



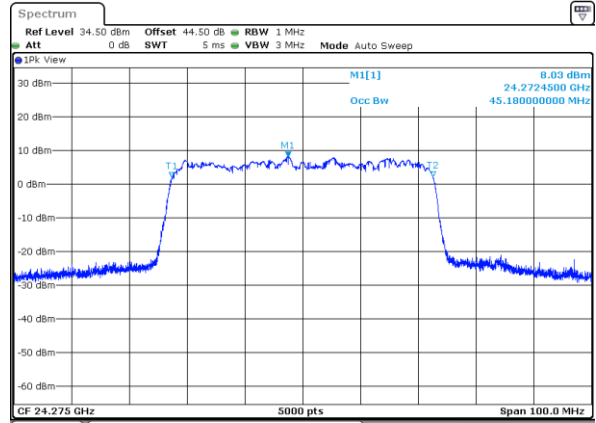
## CP-OFDM Module 1

## NR Band n258a

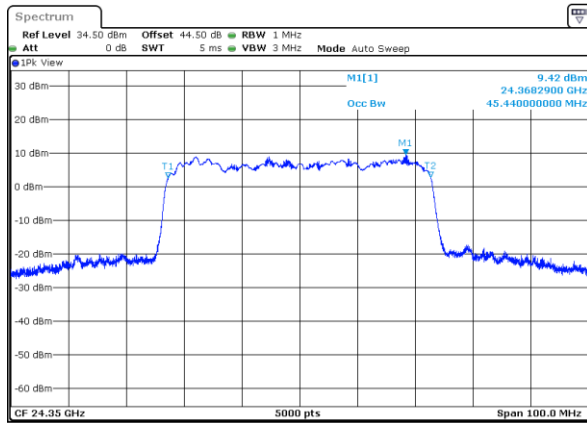
## Lowest Channel / 50MHz / QPSK



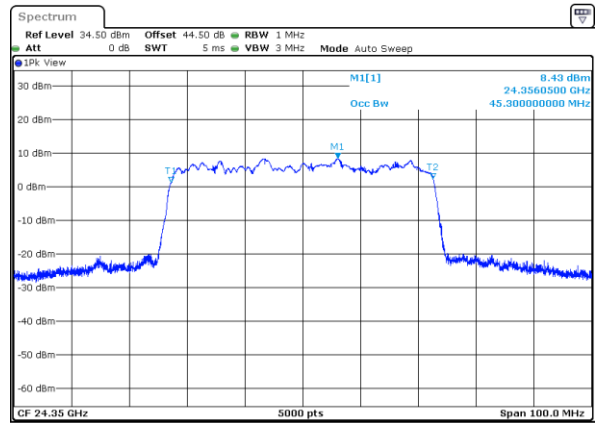
## Lowest Channel / 50MHz / 16QAM



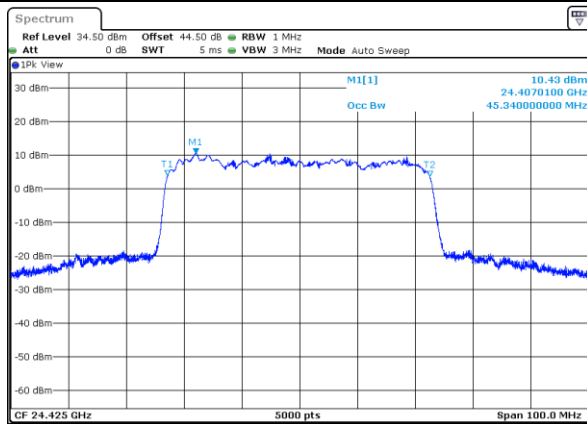
## Middle Channel / 50MHz / QPSK



## Middle Channel / 50MHz / 16QAM



## Highest Channel / 50MHz / QPSK



## Highest Channel / 50MHz / 16QAM

