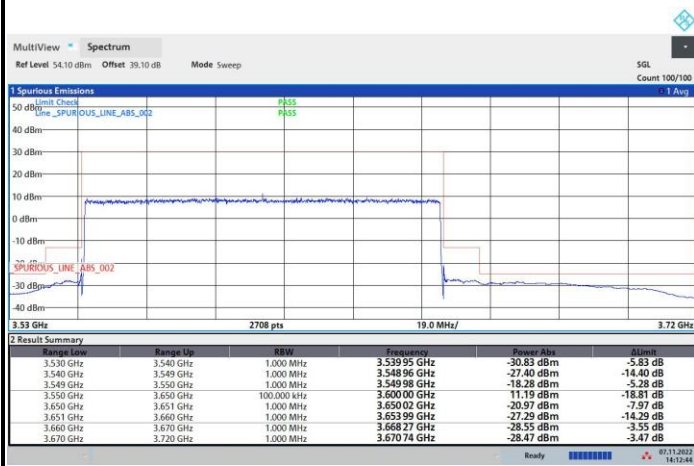




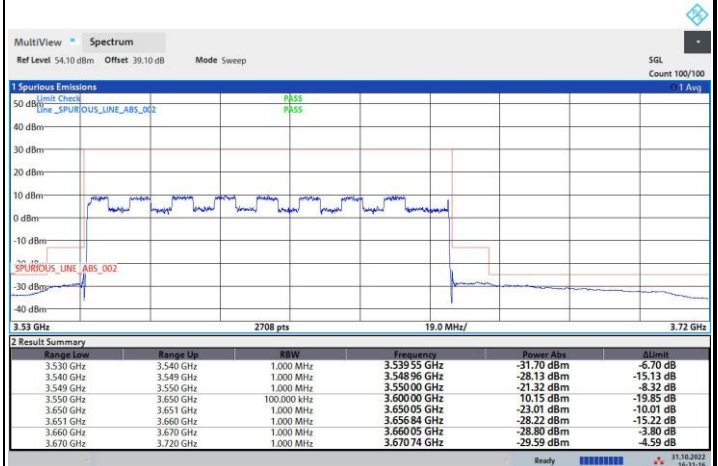
## FR1 n48 / 100MHz / Lowest Channel / MASK

## QPSK



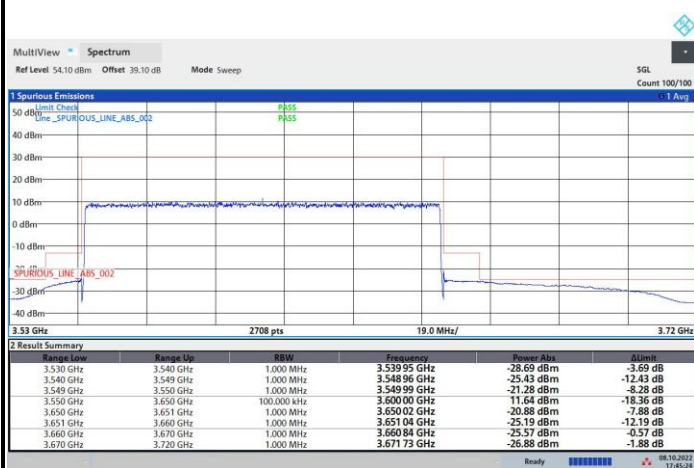
14:12:45 07.11.2022

## 16QAM



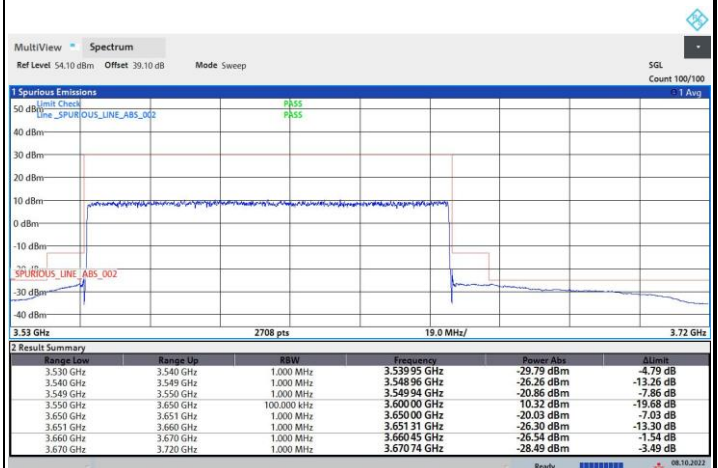
16:21:16 31.10.2022

## 64QAM



17:45:25 08.10.2022

## 256QAM

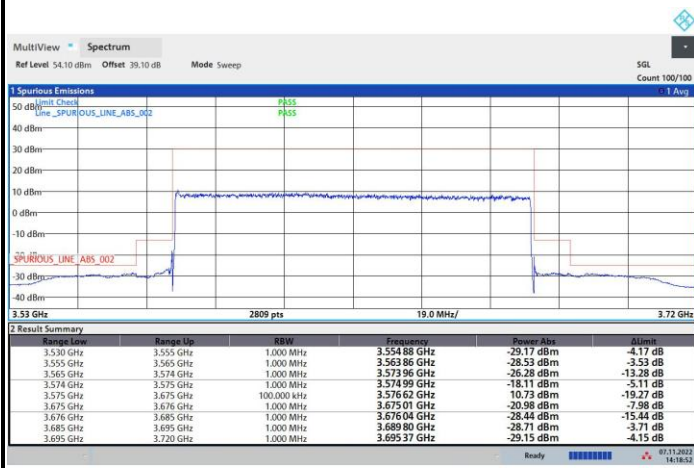


17:18:41 08.10.2022

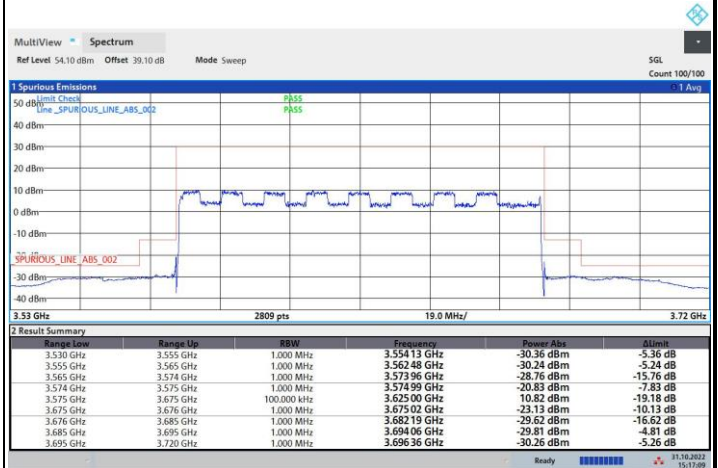


## FR1 n48 / 100MHz / Middle Channel / MASK

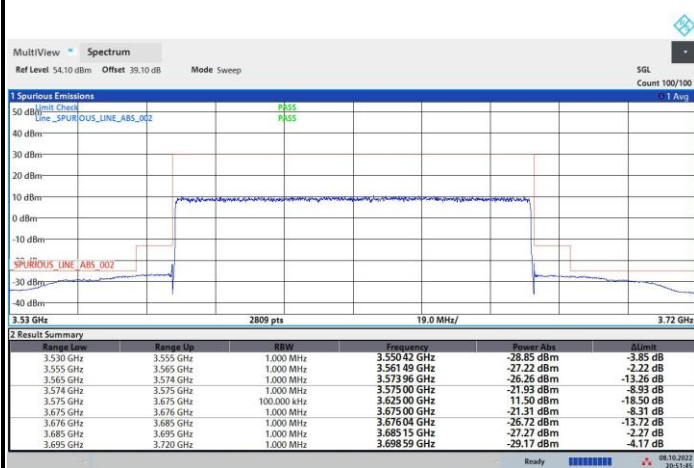
## QPSK



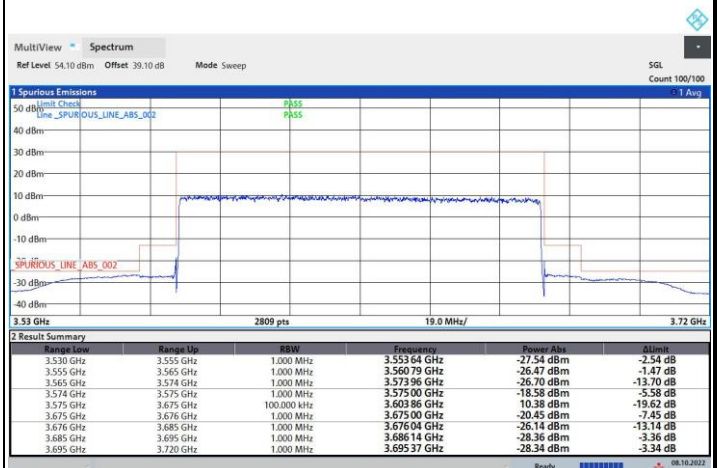
## 16QAM



## 64QAM



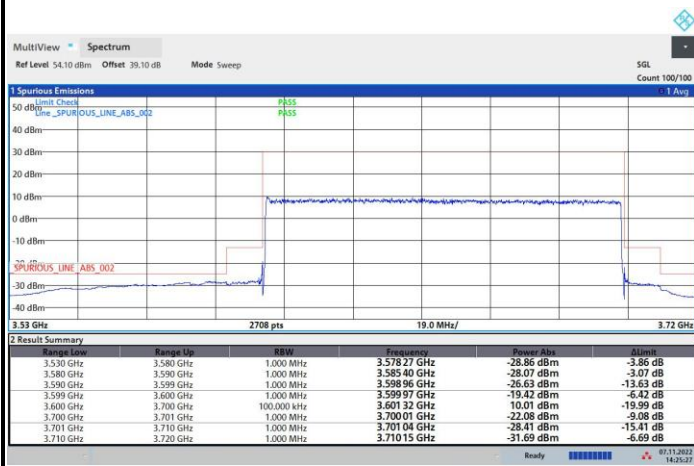
## 256QAM





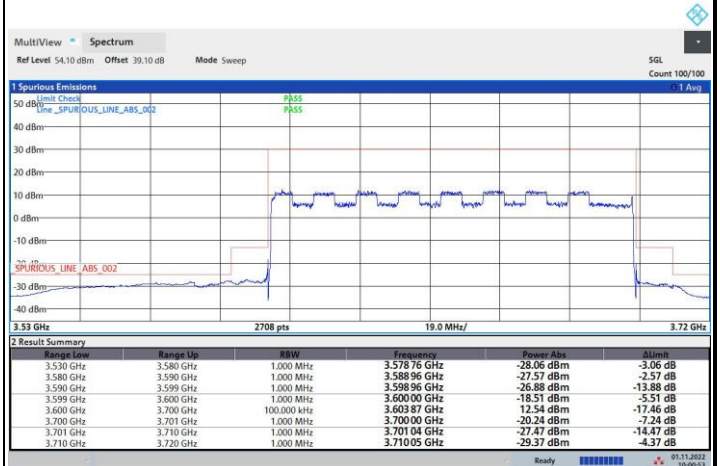
## FR1 n48 / 100MHz / Highest Channel / MASK

## QPSK



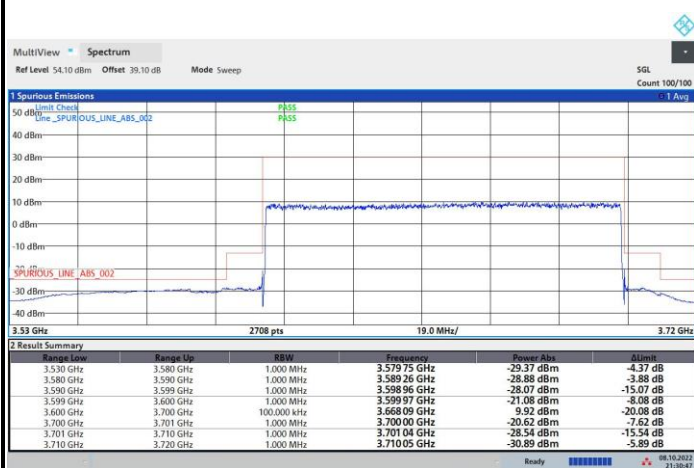
14:25:28 07.11.2022

## 16QAM



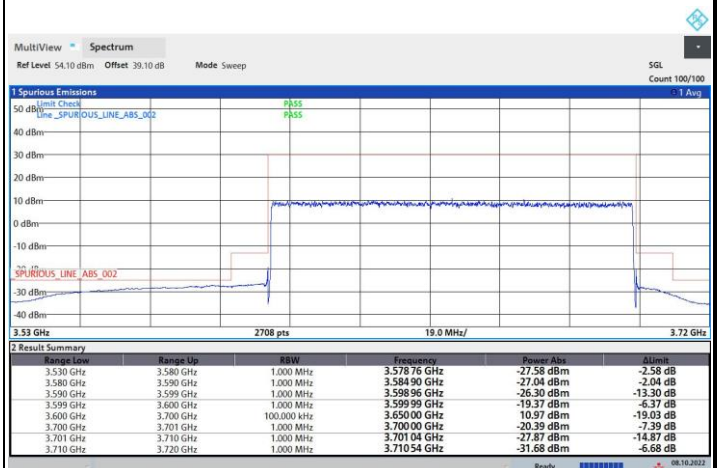
10:00:54 01.11.2022

## 64QAM



21:30:48 08.10.2022

## 256QAM



14:09:09 08.10.2022

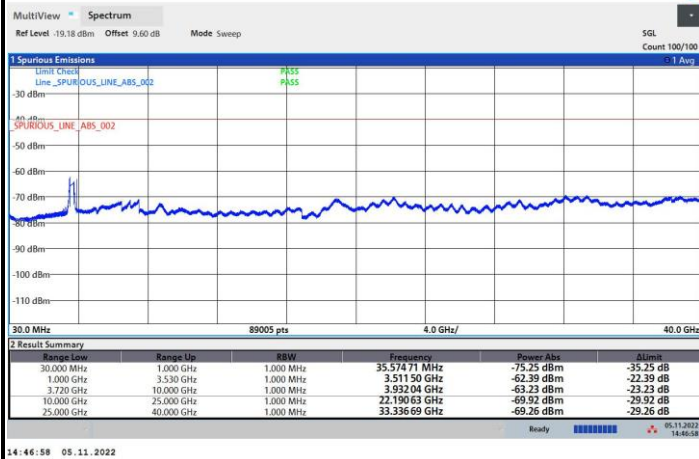


# Conducted Spurious Emission

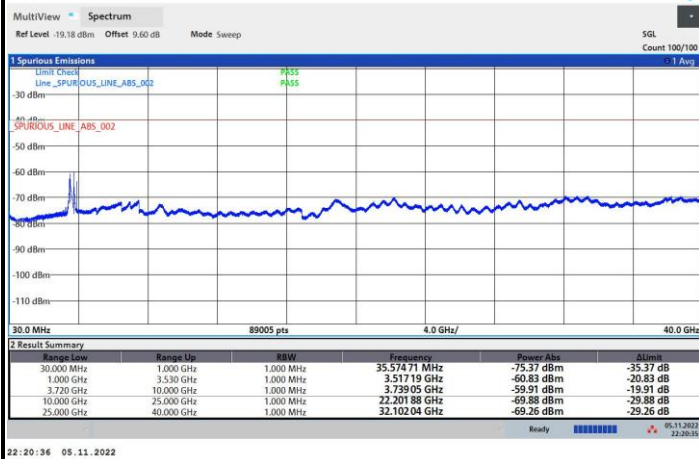
FR1 n48 / 10MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel





## FR1 n48 / 20MHz / QPSK / CSE

## Lowest Channel



## Middle Channel



## Highest Channel





## FR1 n48 / 40MHz / QPSK / CSE

## Lowest Channel



## Middle Channel



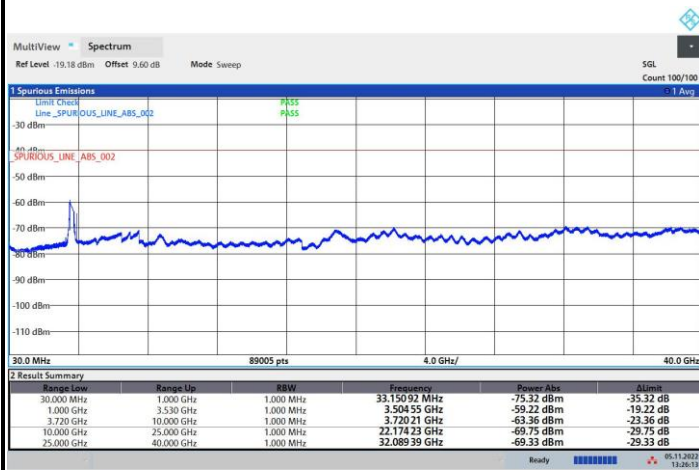
## Highest Channel





## FR1 n48 / 50MHz / QPSK / CSE

## Lowest Channel



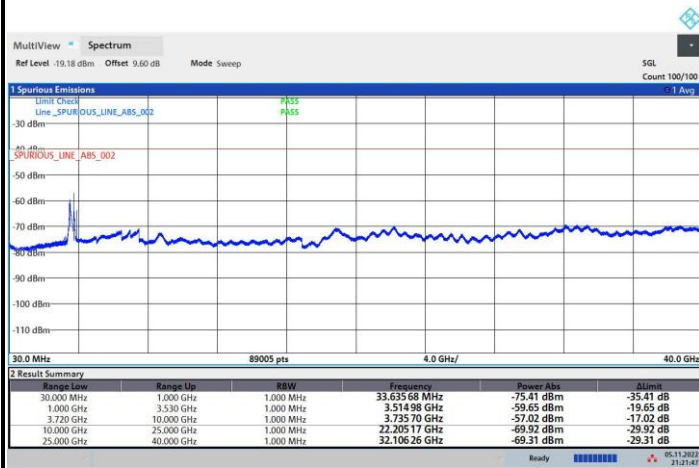
13:26:14 05.11.2022

## Middle Channel



17:38:55 05.11.2022

## Highest Channel

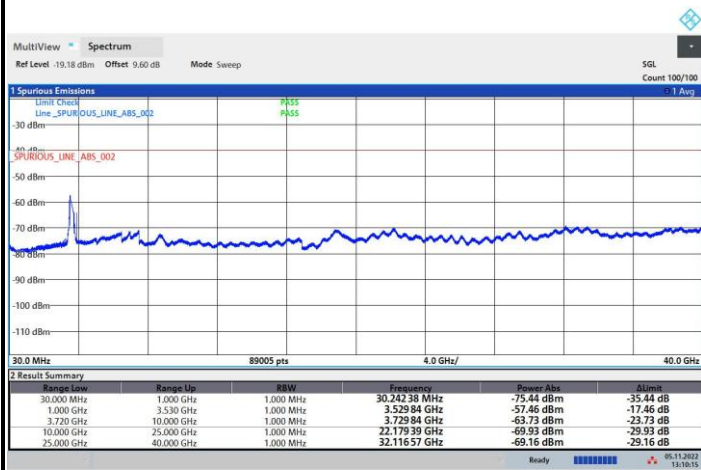


21:21:47 05.11.2022



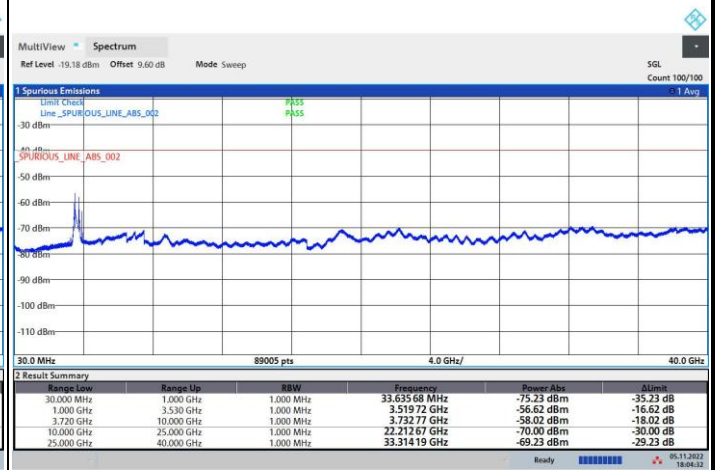
## FR1 n48 / 60MHz / QPSK / CSE

## Lowest Channel



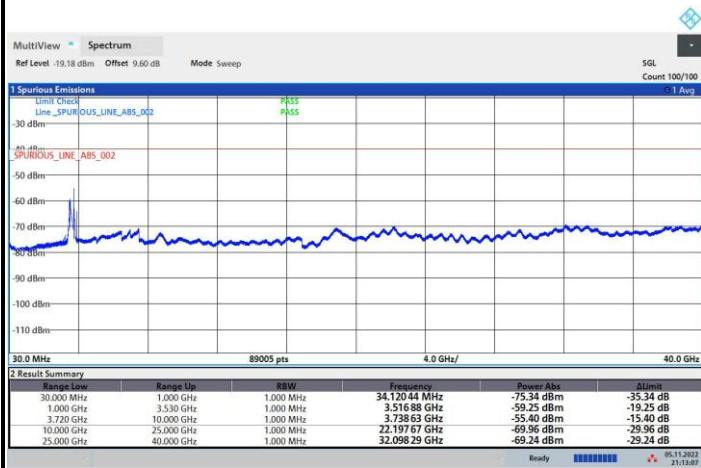
13:10:16 05.11.2022

## Middle Channel



18:04:33 05.11.2022

## Highest Channel

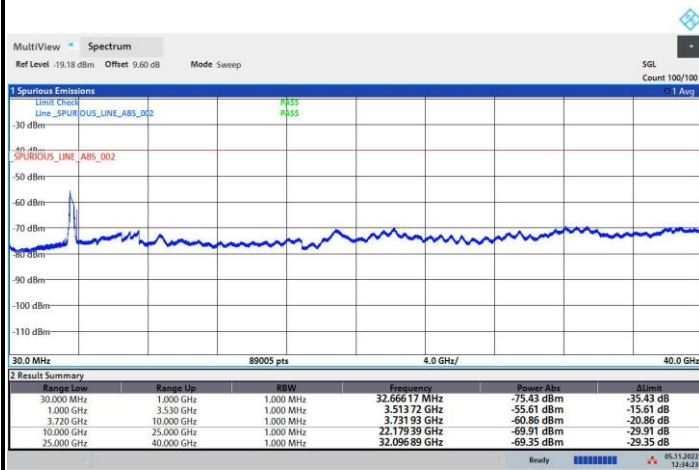


21:13:08 05.11.2022



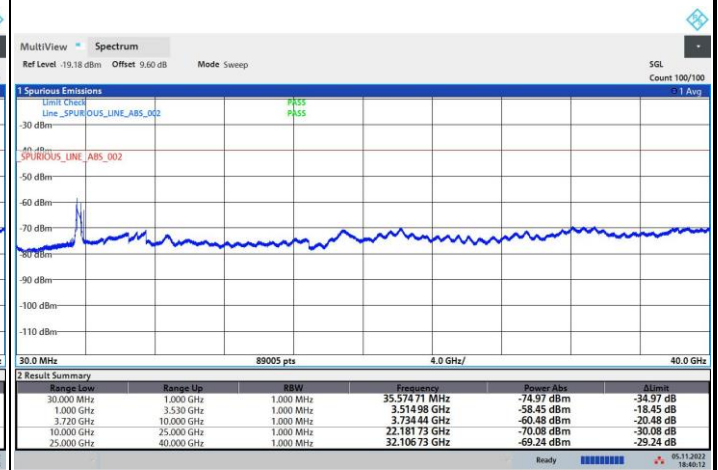
## FR1 n48 / 80MHz / QPSK / CSE

## Lowest Channel



12:34:24 05.11.2022

## Middle Channel



18:40:12 05.11.2022

## Highest Channel



20:36:44 05.11.2022



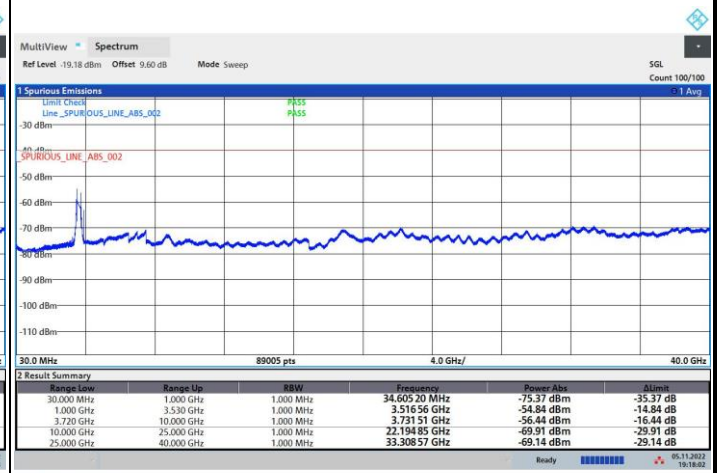
## FR1 n48 / 90MHz / QPSK / CSE

## Lowest Channel



12:11:23 05.11.2022

## Middle Channel



19:18:03 05.11.2022

## Highest Channel



20:23:41 05.11.2022



## FR1 n48 / 100MHz / QPSK / CSE

## Lowest Channel



## Middle Channel



## Highest Channel



## Frequency Stability

| Test Conditions     |                   | FR1 n48 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|---------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                        | Note 2. |
|                     |                   | Frequency Offset (ppm)          | Result  |
| 50                  | Normal Voltage    | 0.0003                          | PASS    |
| 40                  | Normal Voltage    | 0.0014                          |         |
| 30                  | Normal Voltage    | 0.0052                          |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                          |         |
| 10                  | Normal Voltage    | 0.0074                          |         |
| 0                   | Normal Voltage    | 0.0006                          |         |
| -10                 | Normal Voltage    | 0.0030                          |         |
| -20                 | Normal Voltage    | 0.0066                          |         |
| -30                 | Normal Voltage    | 0.0028                          |         |
| 20                  | Maximum Voltage   | 0.0047                          |         |
| 20                  | Normal Voltage    | 0.0063                          |         |
| 20                  | Minimum Voltage   | 0.0000                          |         |

**Note:**

1. Normal Voltage = 110 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## &lt;MIMO ANT 3&gt;

**Maximum EIRP (dBm/10MHz)**

| Mode      | FR1 n48 : Conducted (dBm/10MHz)<br><SISO> Lowest Channel |        |       |        |       |        |        |        |
|-----------|----------------------------------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                                                    |        | 20MHz |        | 40MHz |        | 50MHz  |        |
| Mod.      | QPSK                                                     | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Lowest CH | 20.86                                                    | 20.90  | 21.66 | 20.66  | 21.69 | 20.60  | 21.63  | 20.57  |
| Mod.      | 64QAM                                                    | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Lowest CH | 20.89                                                    | 21.00  | 21.44 | 21.56  | 22.31 | 22.27  | 22.29  | 22.33  |
| BW        | 60MHz                                                    |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                                                     | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Lowest CH | 21.66                                                    | 20.28  | 21.70 | 20.53  | 21.49 | 20.80  | 21.47  | 20.96  |
| Mod.      | 64QAM                                                    | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Lowest CH | 22.10                                                    | 22.09  | 22.35 | 22.38  | 22.20 | 21.96  | 22.30  | 22.30  |

| Mode      | FR1 n48 : Maximum EIRP (dBm/10MHz)<br><MIMO 4TX> Lowest Channel |        |       |        |       |        |        |        |
|-----------|-----------------------------------------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                                                           |        | 20MHz |        | 40MHz |        | 50MHz  |        |
| Mod.      | QPSK                                                            | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Lowest CH | 44.88                                                           | 44.92  | 45.68 | 44.68  | 45.71 | 44.62  | 45.65  | 44.59  |
| Mod.      | 64QAM                                                           | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Lowest CH | 44.91                                                           | 45.02  | 45.46 | 45.58  | 46.33 | 46.29  | 46.31  | 46.35  |
| BW        | 60MHz                                                           |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                                                            | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Lowest CH | 45.68                                                           | 44.30  | 45.72 | 44.55  | 45.51 | 44.82  | 45.49  | 44.98  |
| Mod.      | 64QAM                                                           | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Lowest CH | 46.12                                                           | 46.11  | 46.37 | 46.40  | 46.22 | 45.98  | 46.32  | 46.32  |
| Limit     | 47dBm/10MHz                                                     |        |       |        |       |        |        |        |
| Result    | PASS                                                            |        |       |        |       |        |        |        |

## Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 18dBi MIMO antenna gain.

| Mode      | FR1 n48 : Conducted (dBm/10MHz)<br><SISO> Middle Channel |        |       |        |       |        |        |        |
|-----------|----------------------------------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                                                    |        | 20MHz |        | 40MHz |        | 50MHz  |        |
| Mod.      | QPSK                                                     | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 20.88                                                    | 20.98  | 21.43 | 20.69  | 21.57 | 20.69  | 21.51  | 20.62  |
| Mod.      | 64QAM                                                    | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 20.99                                                    | 20.95  | 21.35 | 21.43  | 22.28 | 22.3   | 22.13  | 22.22  |
| BW        | 60MHz                                                    |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                                                     | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 21.64                                                    | 20.46  | 21.55 | 20.15  | 21.29 | 20.51  | 21.38  | 20.49  |
| Mod.      | 64QAM                                                    | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 22.1                                                     | 22.06  | 22.34 | 22.31  | 22.25 | 22.27  | 21.7   | 22.34  |

| Mode      | FR1 n48 : Maximum EIRP (dBm/10MHz)<br><MIMO 4TX> Middle Channel |        |       |        |       |        |        |        |
|-----------|-----------------------------------------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW        | 10MHz                                                           |        | 20MHz |        | 40MHz |        | 50MHz  |        |
| Mod.      | QPSK                                                            | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 44.90                                                           | 45.00  | 45.45 | 44.71  | 45.59 | 44.71  | 45.53  | 44.64  |
| Mod.      | 64QAM                                                           | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 45.01                                                           | 44.97  | 45.37 | 45.45  | 46.30 | 46.32  | 46.15  | 46.24  |
| BW        | 60MHz                                                           |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.      | QPSK                                                            | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Middle CH | 45.66                                                           | 44.48  | 45.57 | 44.17  | 45.31 | 44.53  | 45.40  | 44.51  |
| Mod.      | 64QAM                                                           | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Middle CH | 46.12                                                           | 46.08  | 46.36 | 46.33  | 46.27 | 46.29  | 45.72  | 46.36  |
| Limit     | 47dBm/10MHz                                                     |        |       |        |       |        |        |        |
| Result    | PASS                                                            |        |       |        |       |        |        |        |

**Note**

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 18dBi MIMO antenna gain.

| Mode       | FR1 n48 : Conducted (dBm/10MHz)<br><SISO> Highest Channel |        |       |        |       |        |        |        |
|------------|-----------------------------------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW         | 10MHz                                                     |        | 20MHz |        | 40MHz |        | 50MHz  |        |
| Mod.       | QPSK                                                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Highest CH | 20.61                                                     | 20.81  | 21.47 | 20.92  | 21.53 | 20.62  | 21.39  | 20.68  |
| Mod.       | 64QAM                                                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Highest CH | 20.74                                                     | 20.67  | 21.56 | 21.36  | 22.26 | 22.28  | 22.40  | 22.20  |
| BW         | 60MHz                                                     |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.       | QPSK                                                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Highest CH | 21.56                                                     | 20.23  | 21.46 | 20.28  | 21.46 | 20.32  | 21.29  | 20.27  |
| Mod.       | 64QAM                                                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Highest CH | 22.32                                                     | 22.23  | 22.31 | 22.35  | 22.28 | 22.16  | 22.11  | 22.32  |

| Mode       | FR1 n48 : Maximum EIRP (dBm/10MHz)<br><MIMO 4TX> Highest Channel |        |       |        |       |        |        |        |
|------------|------------------------------------------------------------------|--------|-------|--------|-------|--------|--------|--------|
| BW         | 10MHz                                                            |        | 20MHz |        | 40MHz |        | 50MHz  |        |
| Mod.       | QPSK                                                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Highest CH | 44.63                                                            | 44.83  | 45.49 | 44.94  | 45.55 | 44.64  | 45.41  | 44.70  |
| Mod.       | 64QAM                                                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Highest CH | 44.76                                                            | 44.69  | 45.58 | 45.38  | 46.28 | 46.30  | 46.42  | 46.22  |
| BW         | 60MHz                                                            |        | 80MHz |        | 90MHz |        | 100MHz |        |
| Mod.       | QPSK                                                             | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK   | 16QAM  |
| Highest CH | 45.58                                                            | 44.25  | 45.48 | 44.30  | 45.48 | 44.34  | 45.31  | 44.29  |
| Mod.       | 64QAM                                                            | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM  | 256QAM |
| Highest CH | 46.34                                                            | 46.25  | 46.33 | 46.37  | 46.30 | 46.18  | 46.13  | 46.34  |
| Limit      | 47dBm/10MHz                                                      |        |       |        |       |        |        |        |
| Result     | PASS                                                             |        |       |        |       |        |        |        |

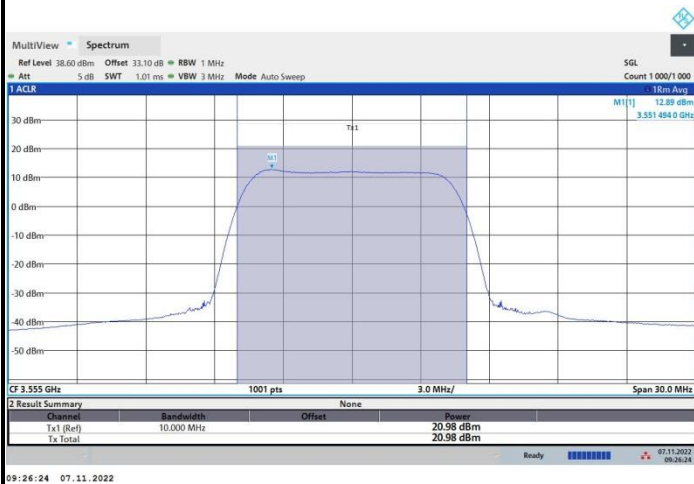
**Note**

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 18dBi MIMO antenna gain.



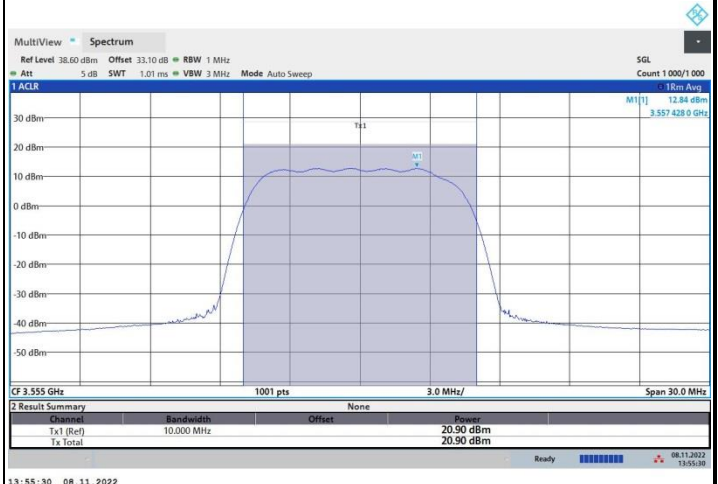
## FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

## QPSK



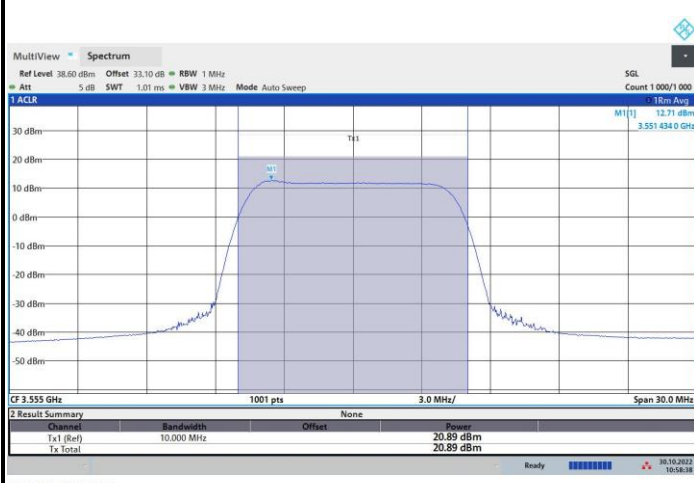
09:26:24 07.11.2022

## 16QAM



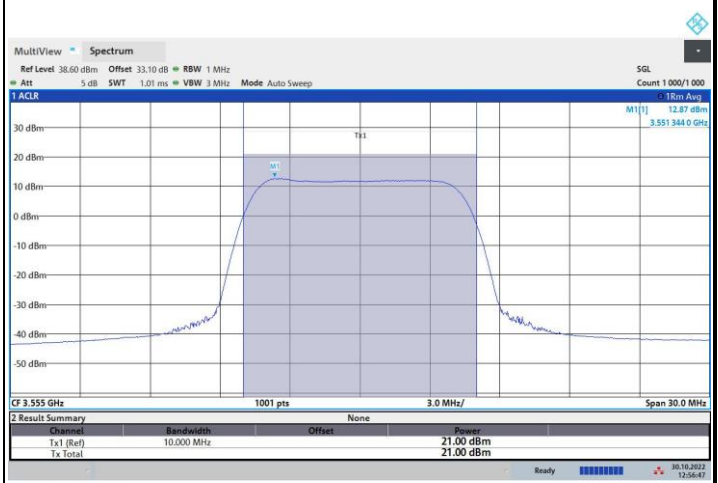
13:55:30 08.11.2022

## 64QAM



10:58:38 30.10.2022

## 256QAM

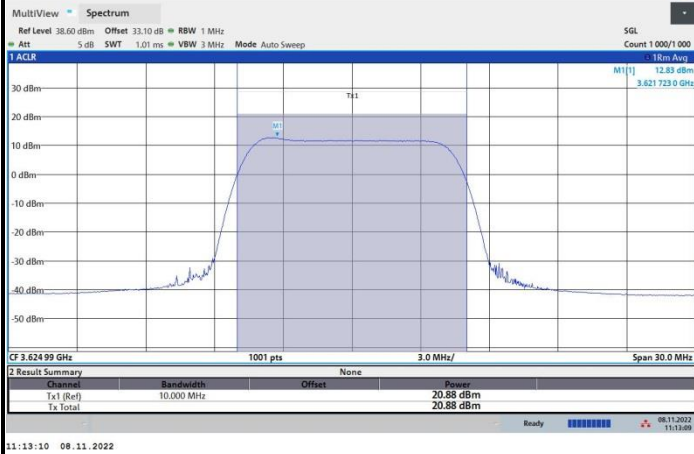


12:56:49 30.10.2022

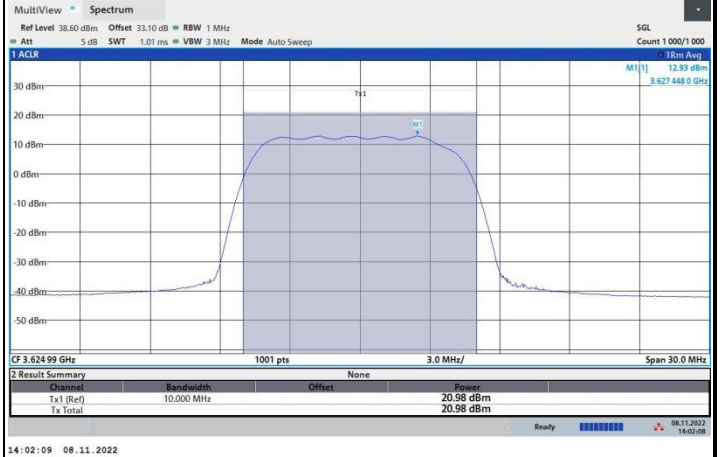


## FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

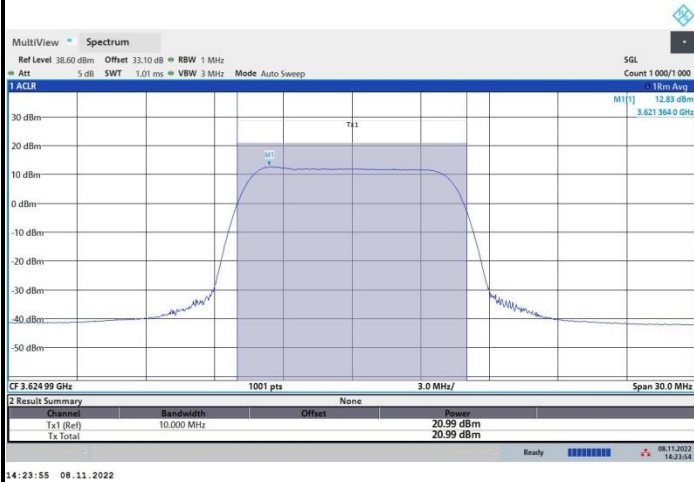
## QPSK



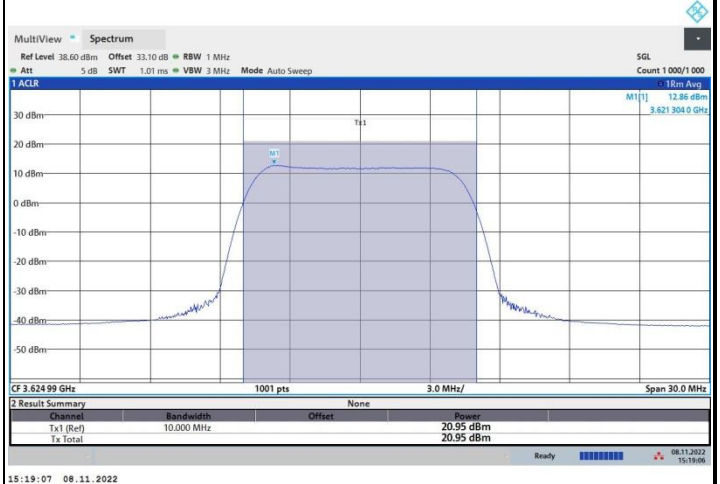
## 16QAM



## 64QAM



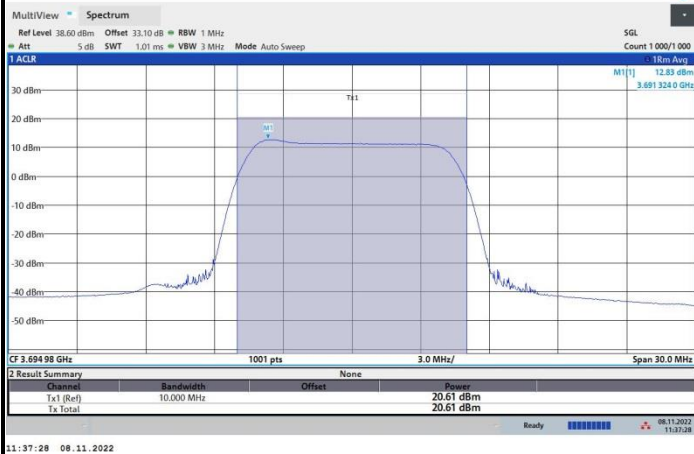
## 256QAM





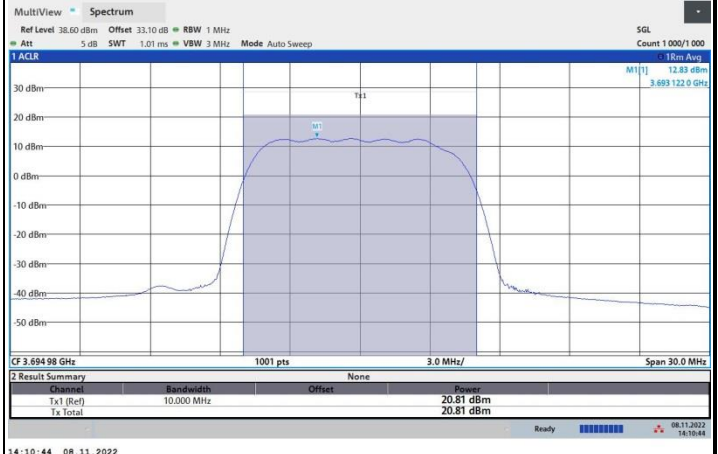
## FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

## QPSK



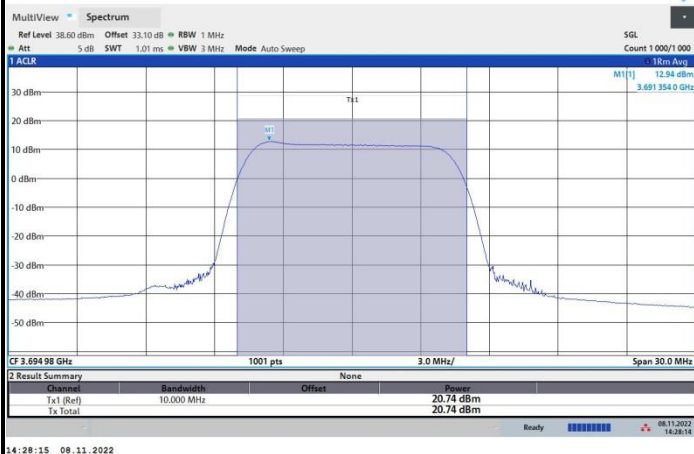
11:37:28 08.11.2022

## 16QAM



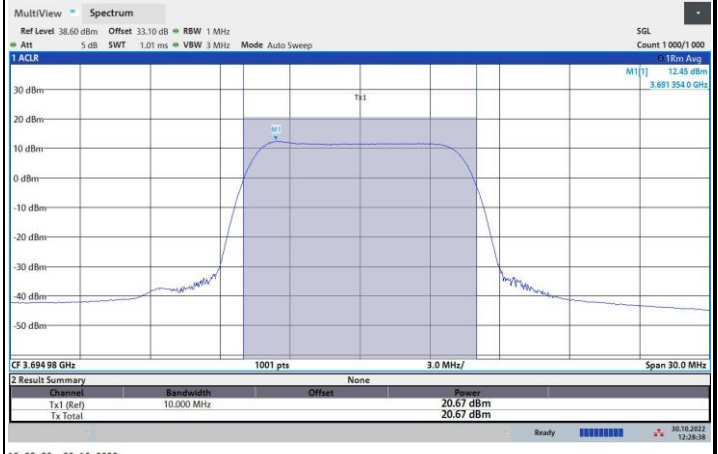
14:10:44 08.11.2022

## 64QAM



14:28:15 08.11.2022

## 256QAM

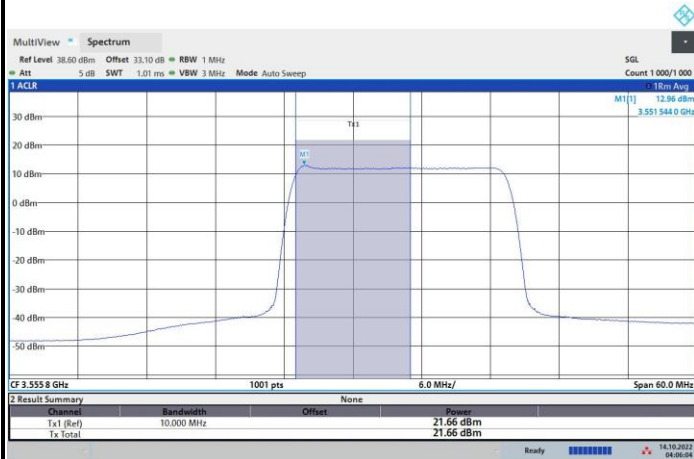


12:28:39 08.11.2022



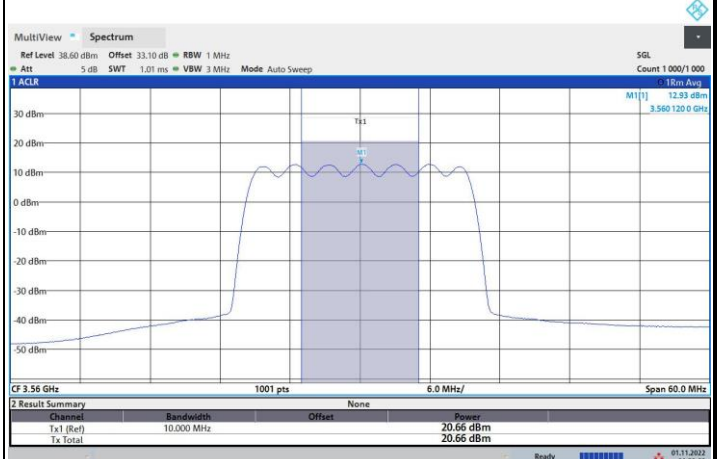
## FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

## QPSK



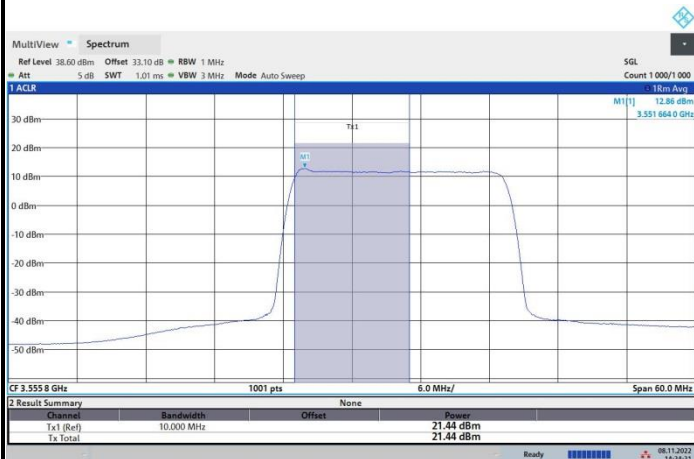
04:06:04 14.10.2022

## 16QAM



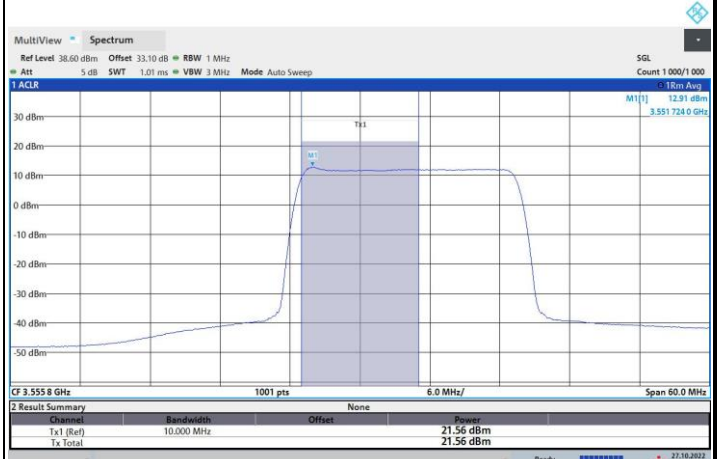
04:23:04 01.11.2022

## 64QAM



14:34:32 08.11.2022

## 256QAM

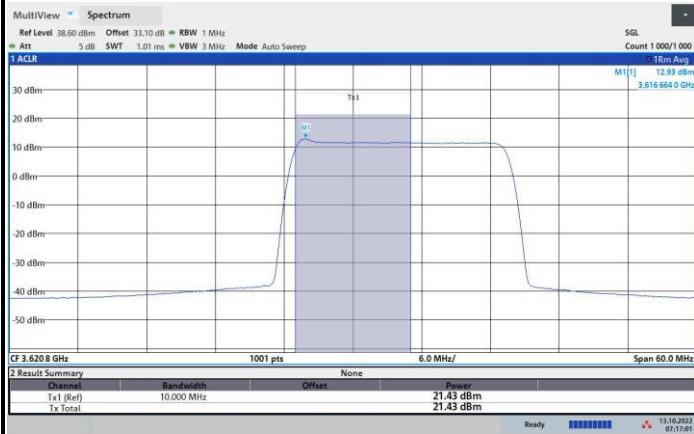


10:04:37 27.10.2022

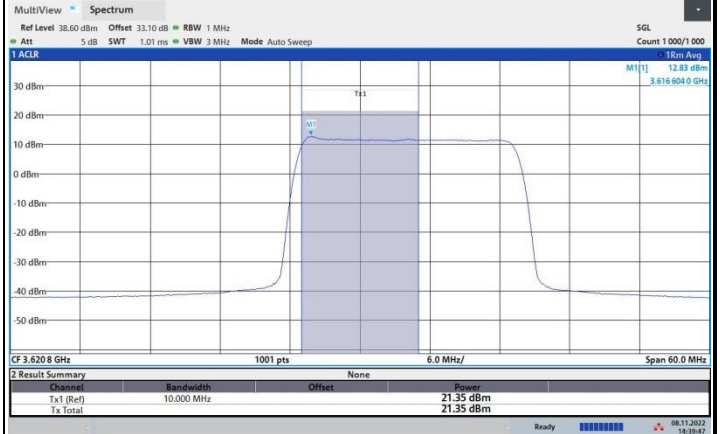


## FR1 n48 / 20MHz / Middle Channel / Conducted (dBm/10MHz)

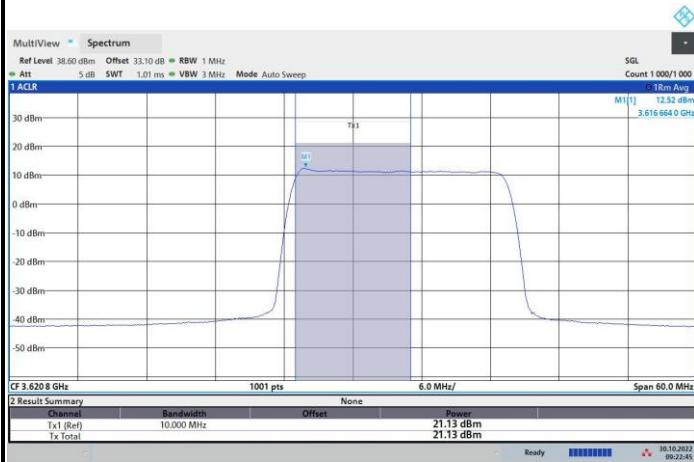
## QPSK



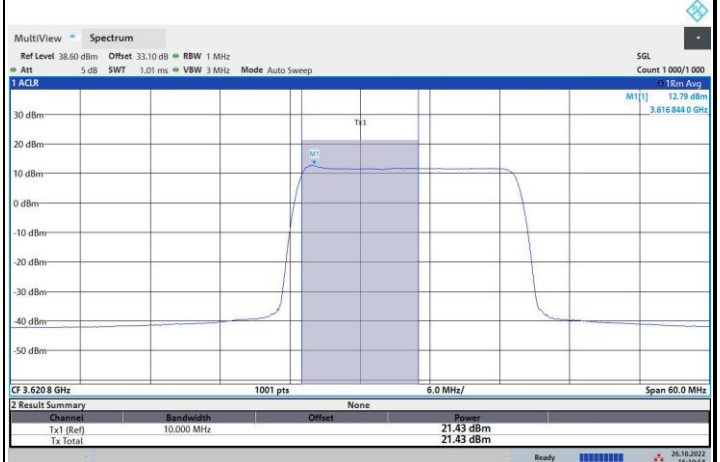
## 16QAM



## 64QAM



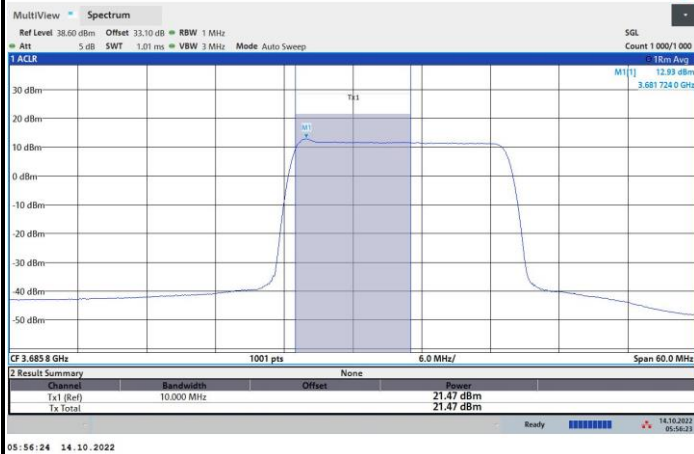
## 256QAM



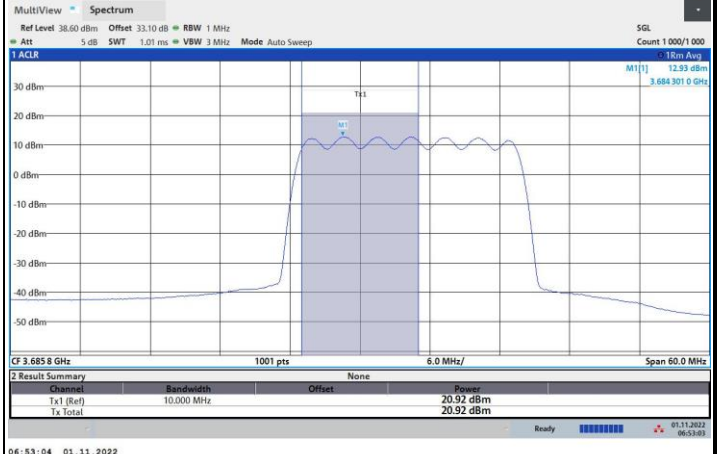


## FR1 n48 / 20MHz / Highest Channel / Conducted (dBm/10MHz)

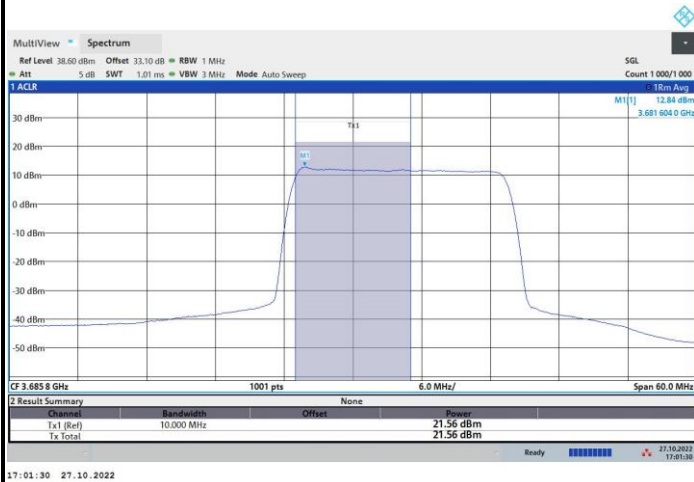
## QPSK



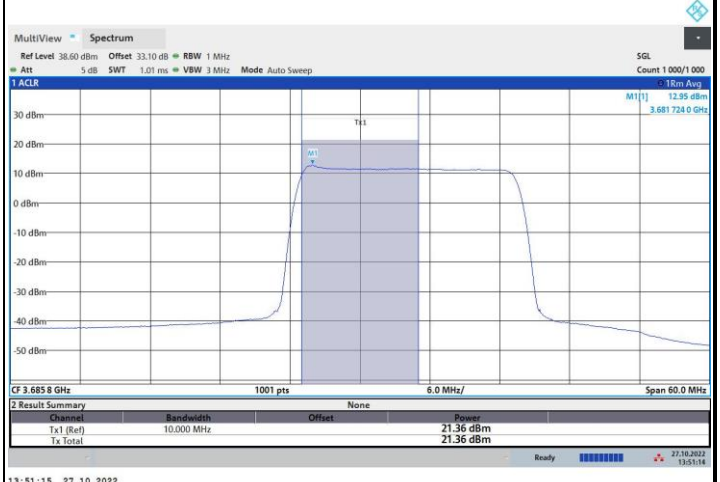
## 16QAM



## 64QAM



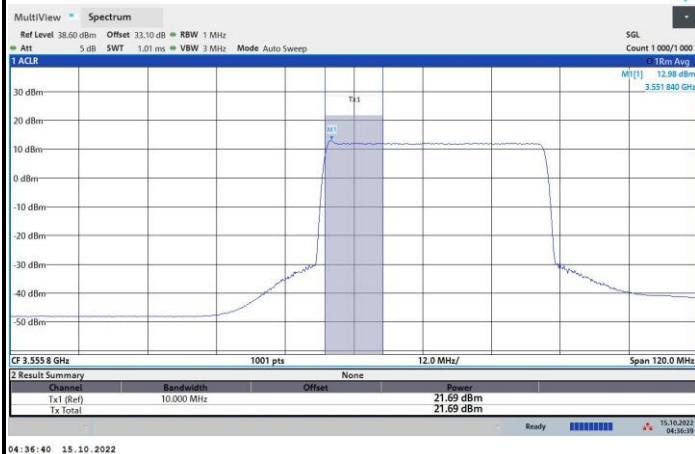
## 256QAM



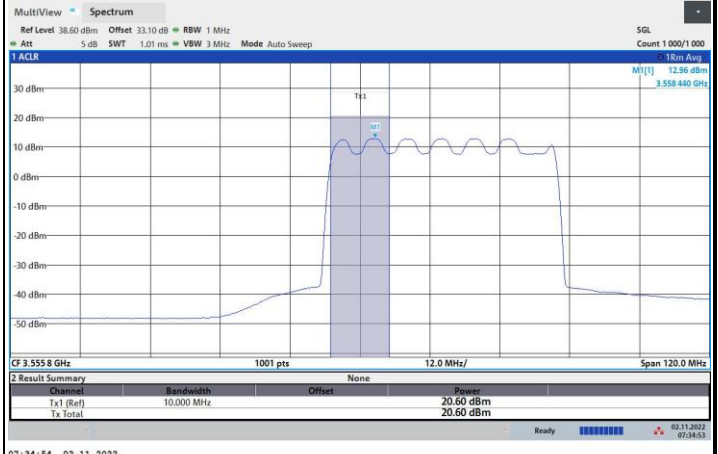


## FR1 n48 / 40MHz / Lowest Channel / Conducted (dBm/10MHz)

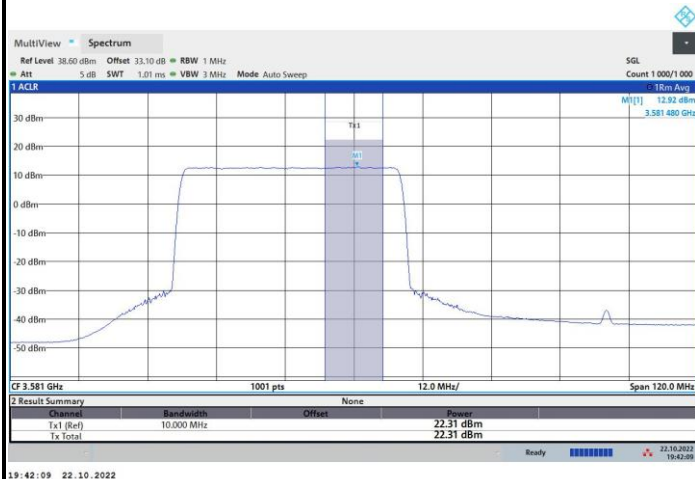
## QPSK



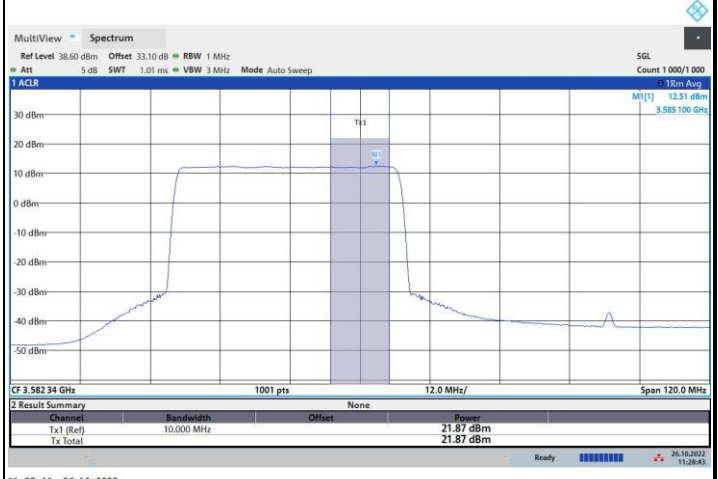
## 16QAM



## 64QAM



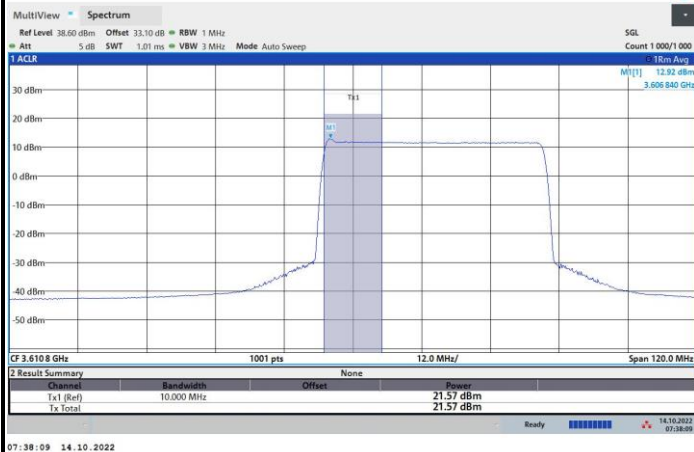
## 256QAM



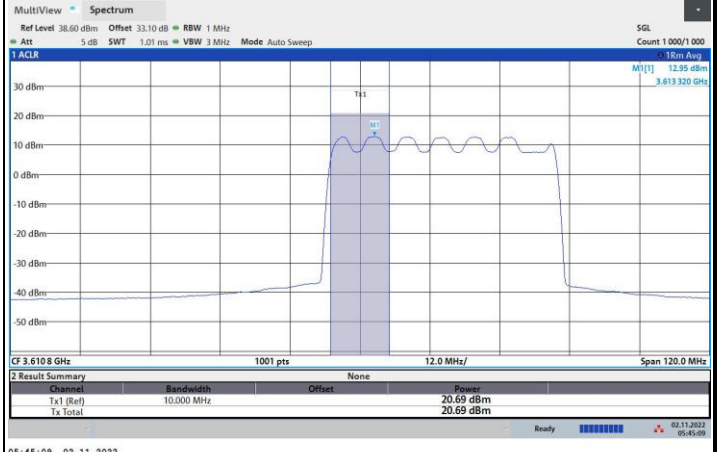


## FR1 n48 / 40MHz / Middle Channel / Conducted (dBm/10MHz)

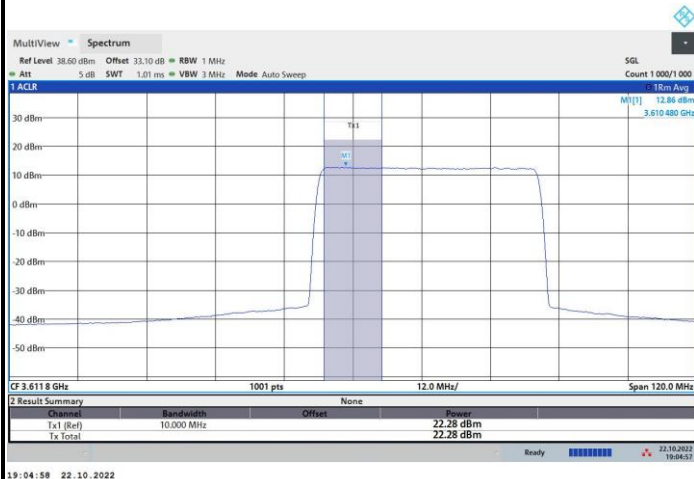
## QPSK



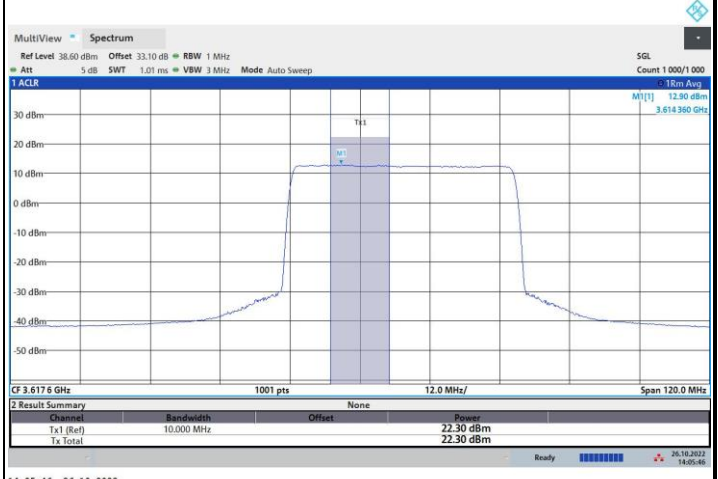
## 16QAM



## 64QAM



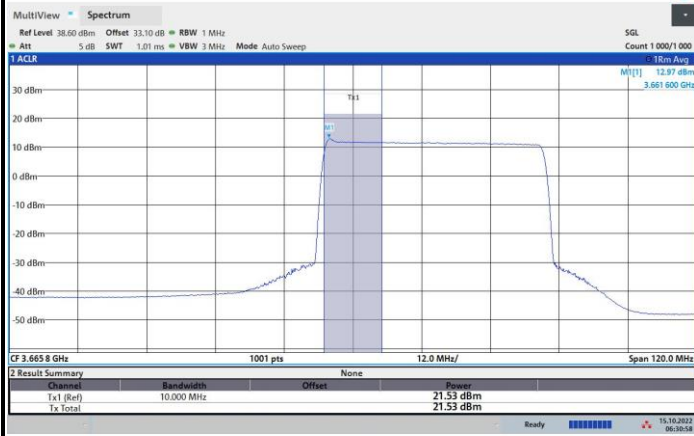
## 256QAM



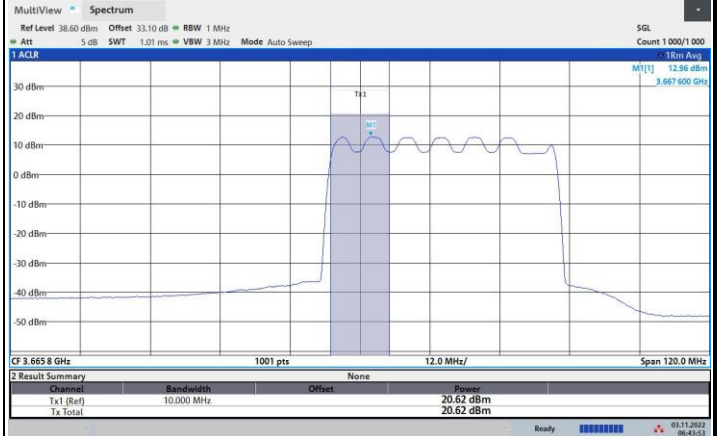


## FR1 n48 / 40MHz / Highest Channel / Conducted (dBm/10MHz)

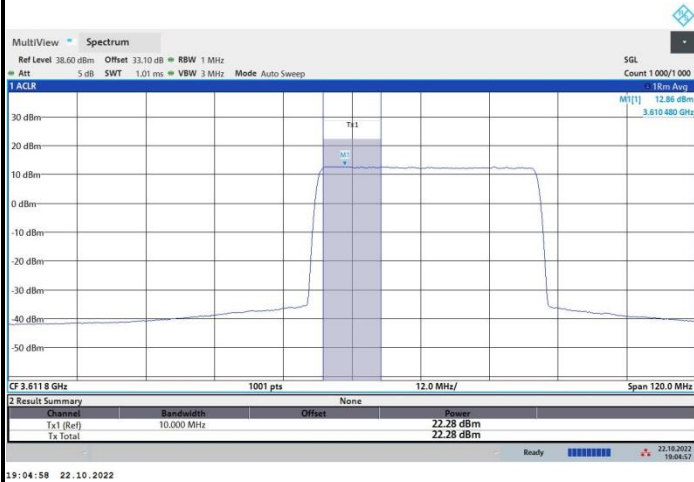
## QPSK



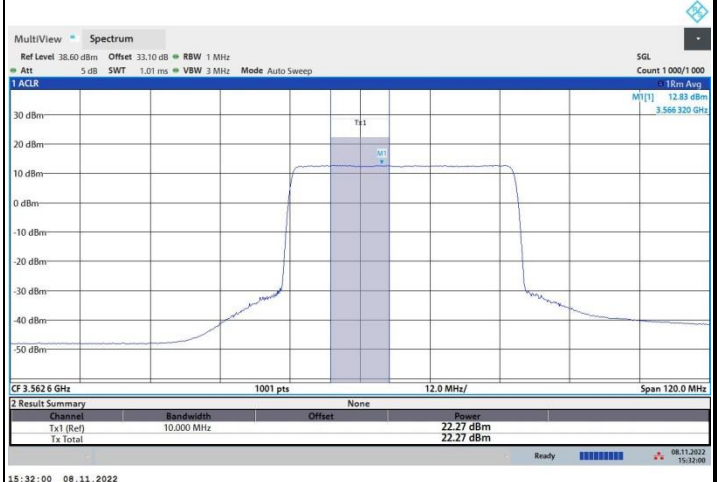
## 16QAM



## 64QAM



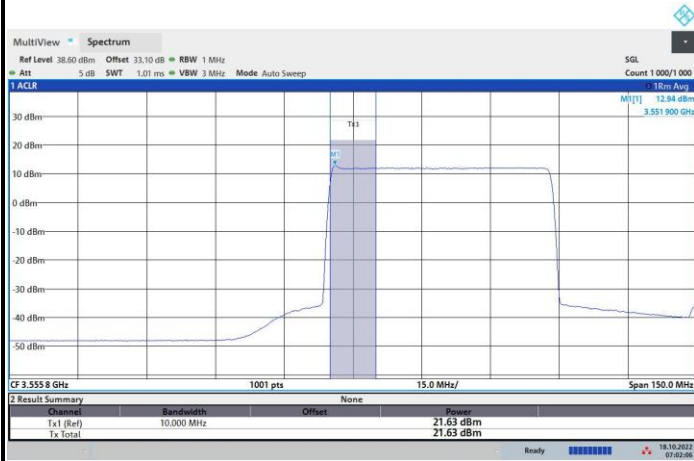
## 256QAM



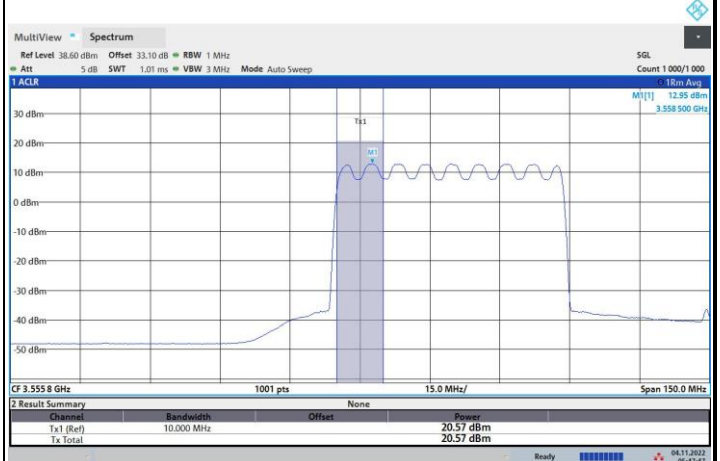


## FR1 n48 / 50MHz / Lowest Channel / Conducted (dBm/10MHz)

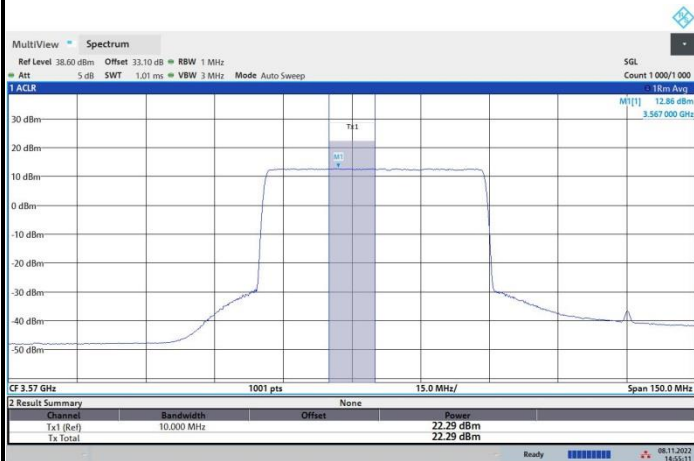
## QPSK



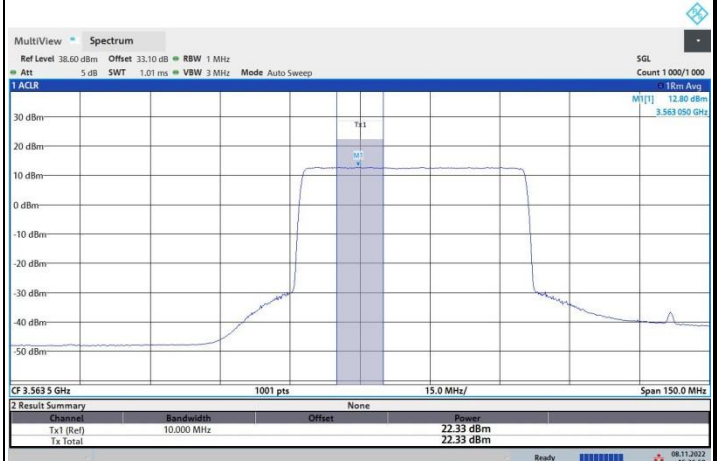
## 16QAM



## 64QAM



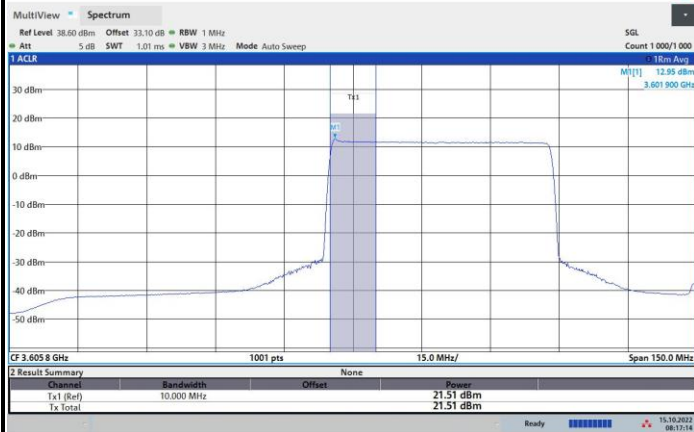
## 256QAM



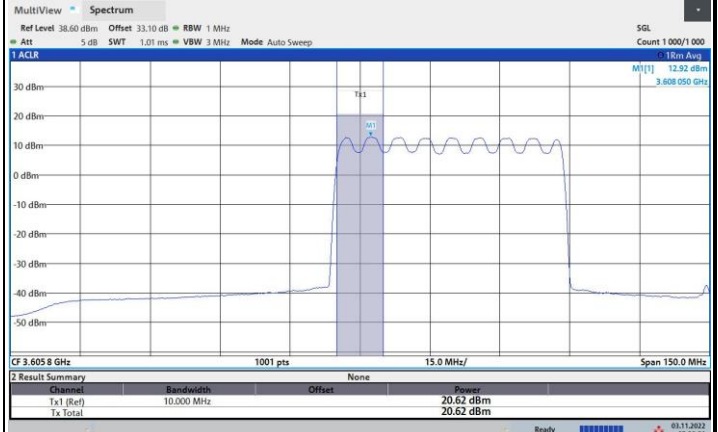


## FR1 n48 / 50MHz / Middle Channel / Conducted (dBm/10MHz)

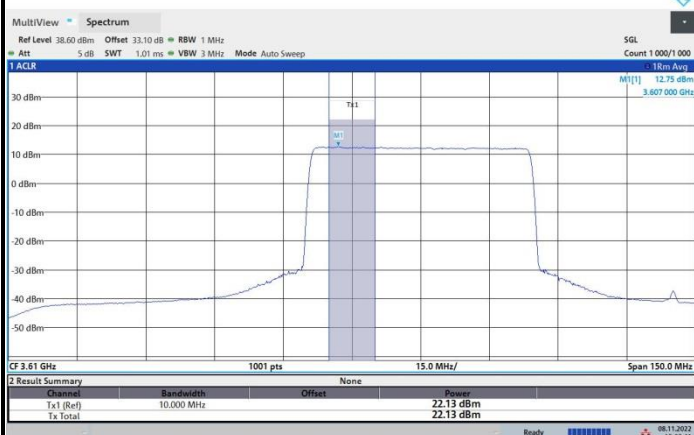
## QPSK



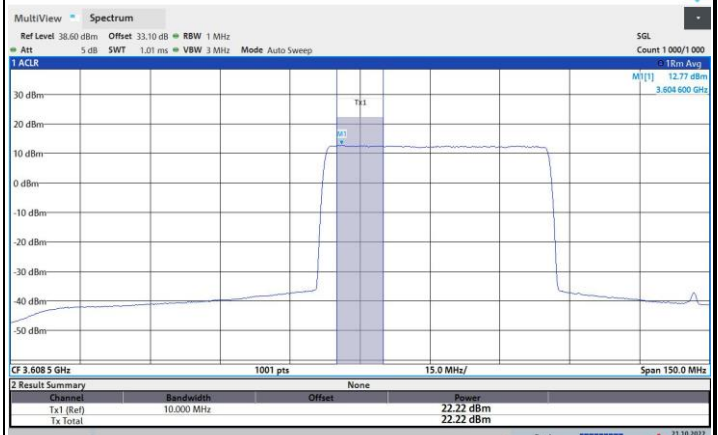
## 16QAM



## 64QAM



## 256QAM



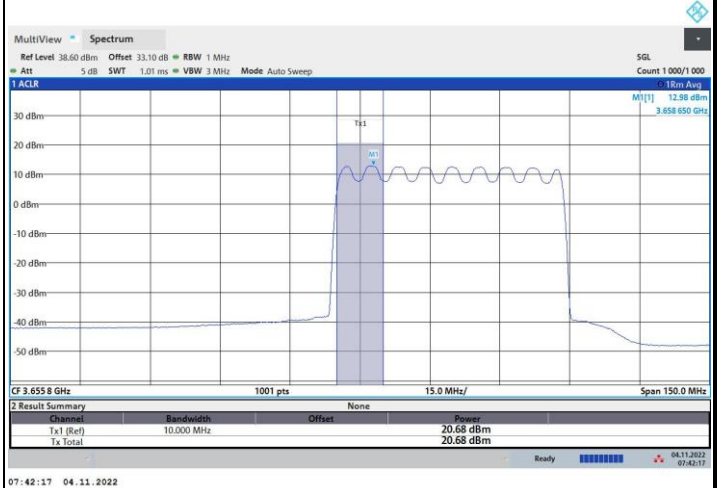


## FR1 n48 / 50MHz / Highest Channel / Conducted (dBm/10MHz)

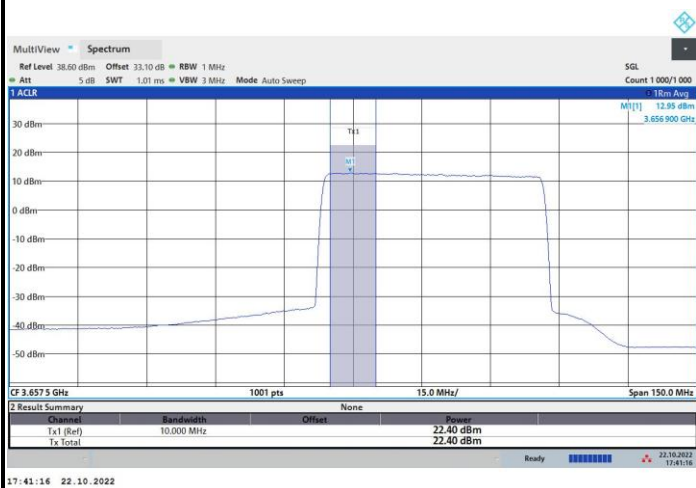
## QPSK



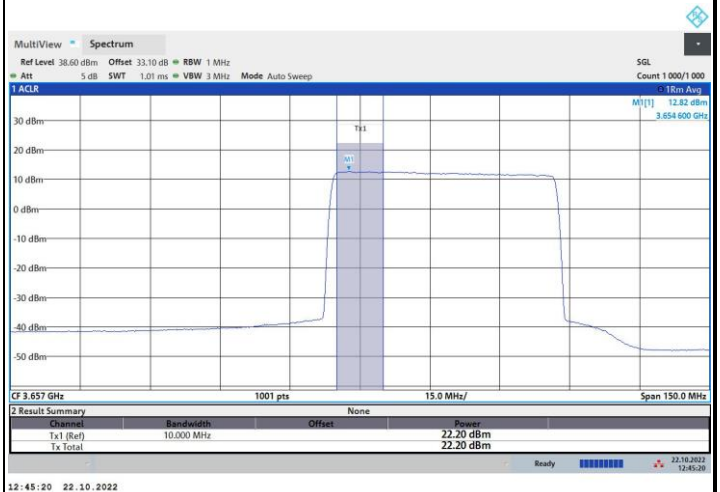
## 16QAM



## 64QAM



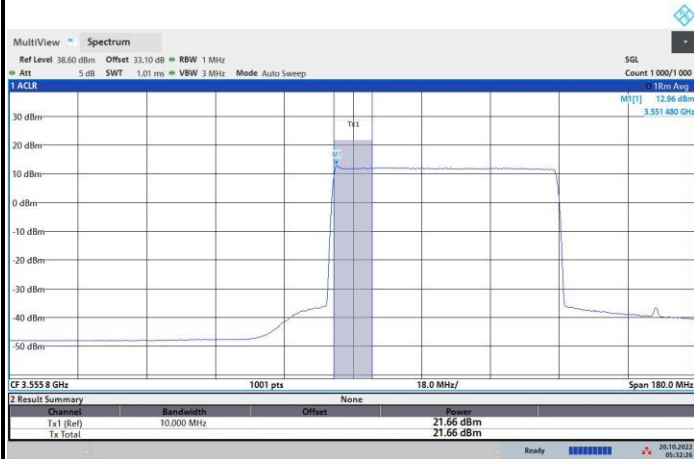
## 256QAM





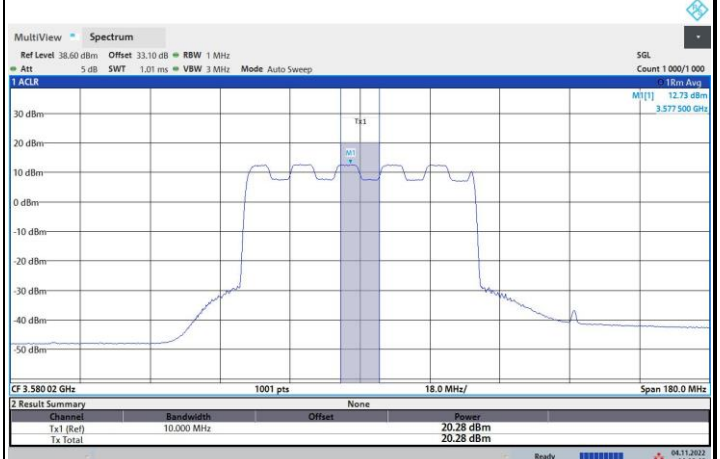
## FR1 n48 / 60MHz / Lowest Channel / Conducted (dBm/10MHz)

## QPSK



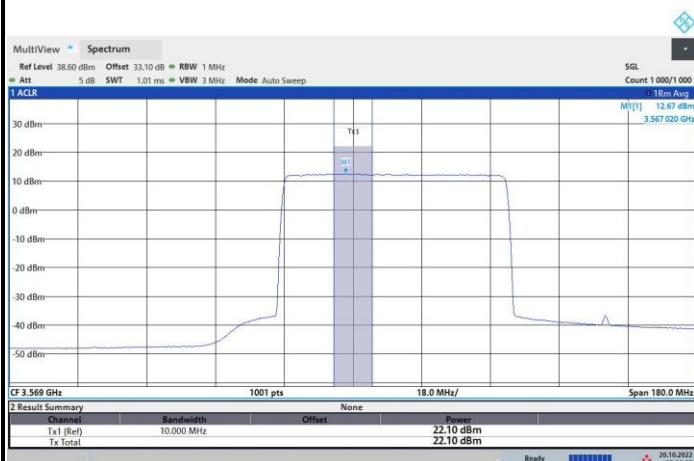
05:32:26 20.10.2022

## 16QAM



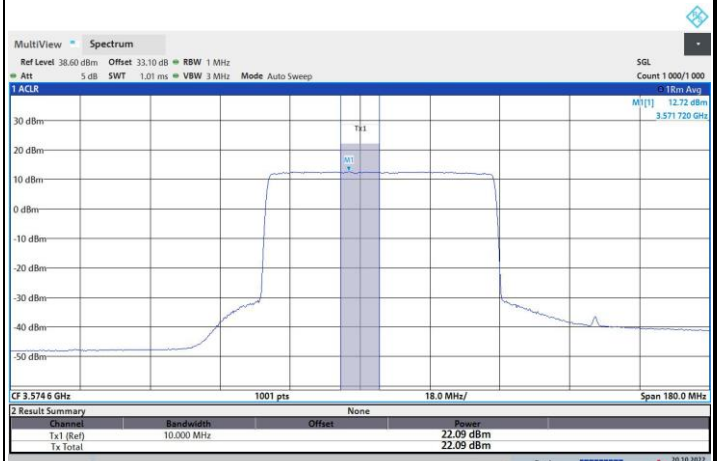
14:19:40 04.11.2022

## 64QAM



09:36:33 20.10.2022

## 256QAM

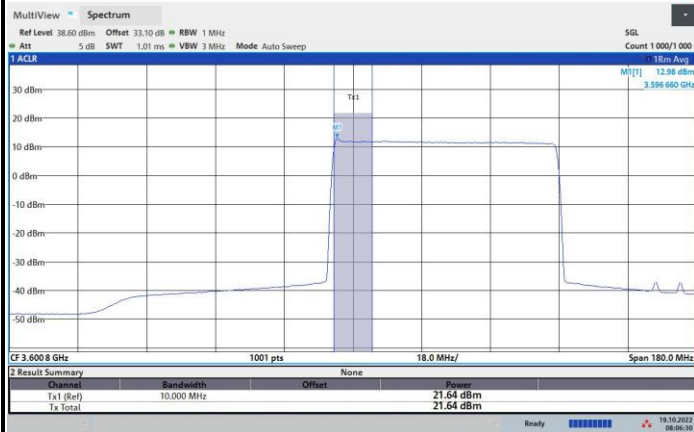


13:52:36 20.10.2022

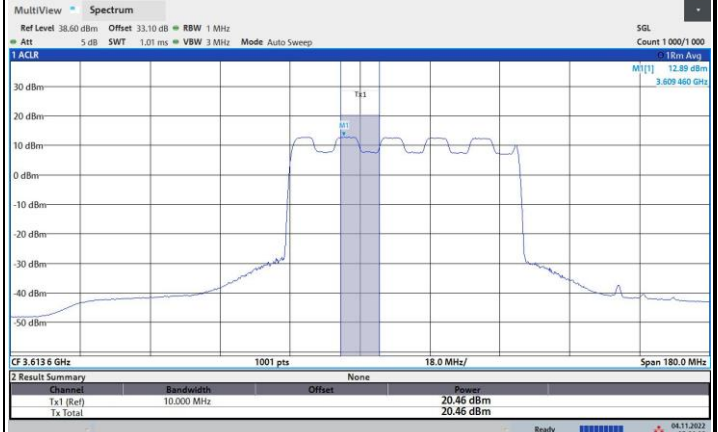


## FR1 n48 / 60MHz / Middle Channel / Conducted (dBm/10MHz)

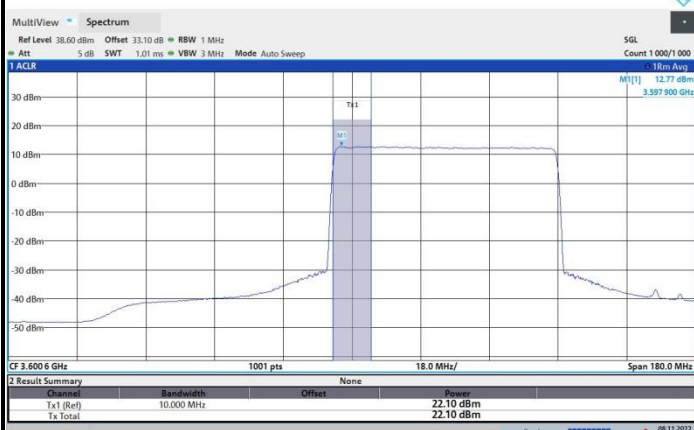
## QPSK



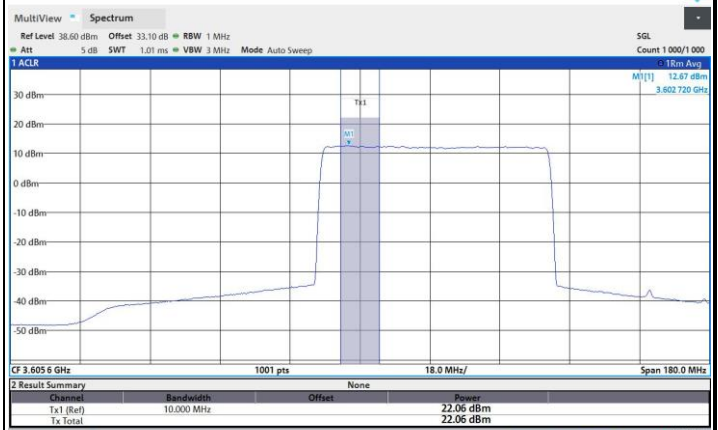
## 16QAM



## 64QAM



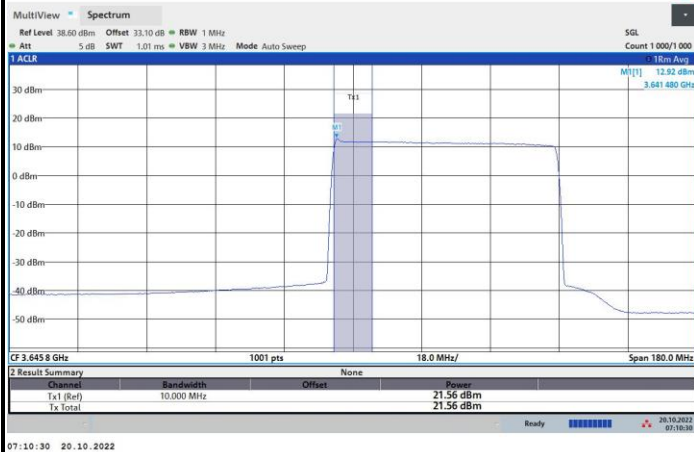
## 256QAM



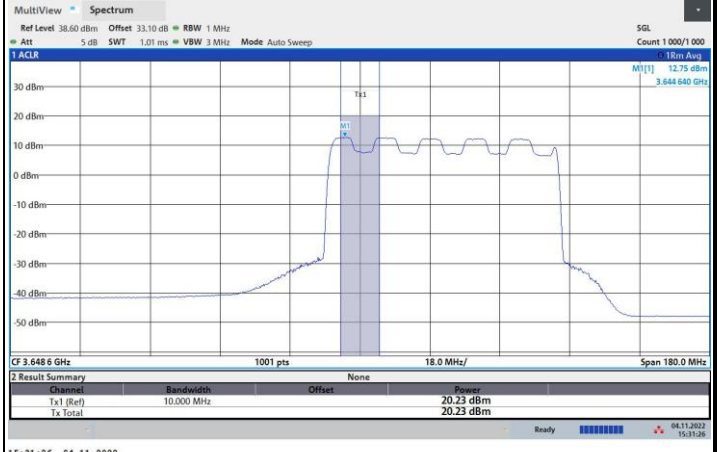


## FR1 n48 / 60MHz / Highest Channel / Conducted (dBm/10MHz)

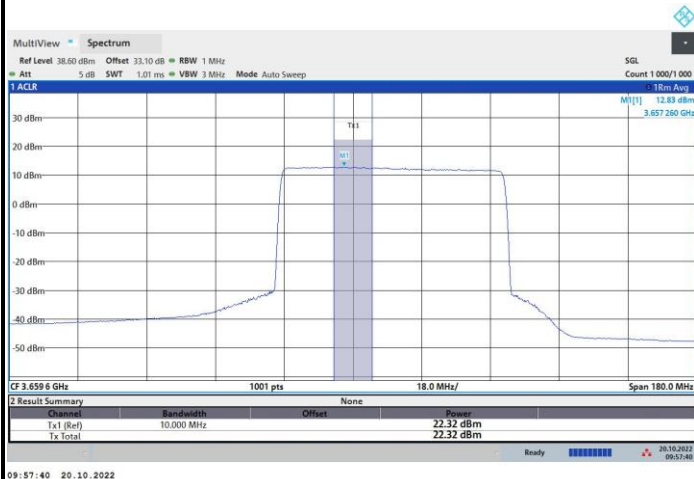
## QPSK



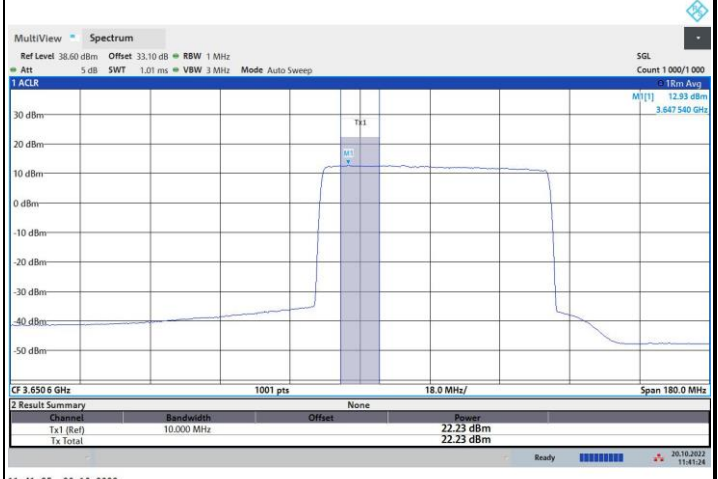
## 16QAM



## 64QAM



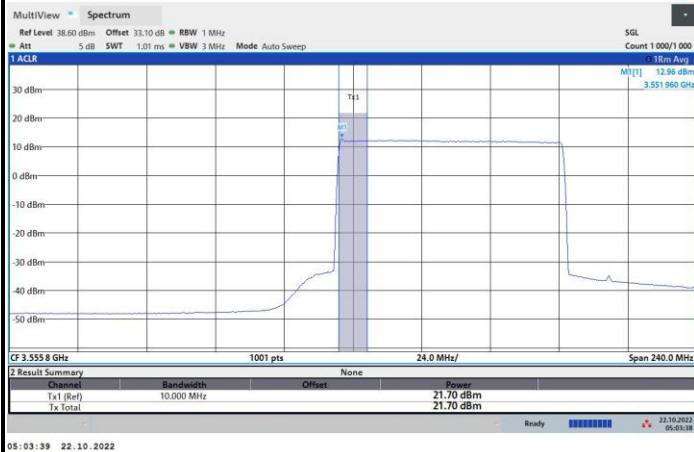
## 256QAM



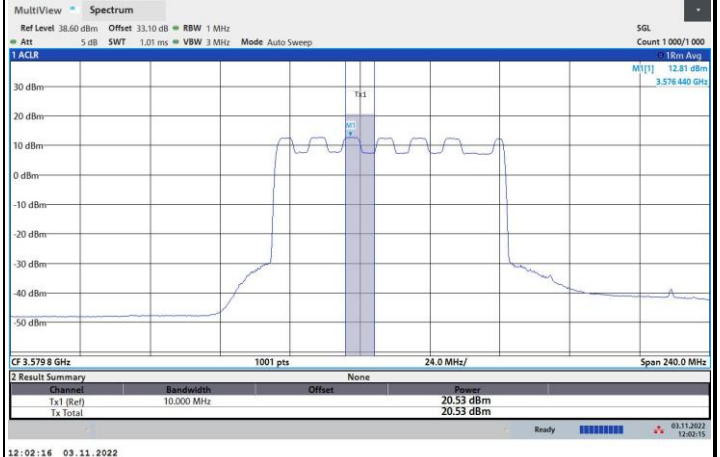


## FR1 n48 / 80MHz / Lowest Channel / Conducted (dBm/10MHz)

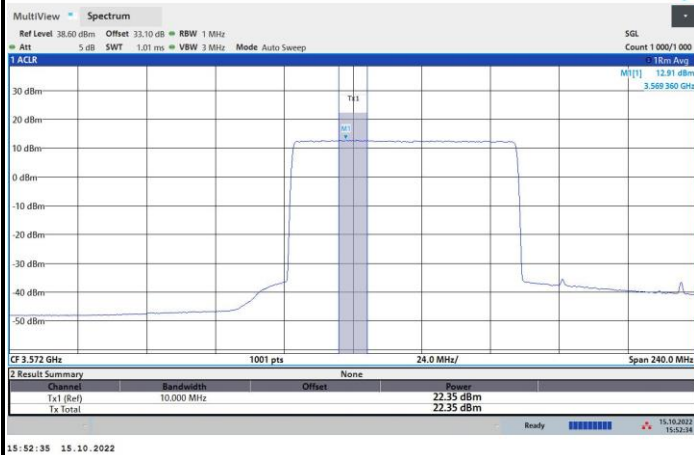
## QPSK



## 16QAM



## 64QAM



## 256QAM

