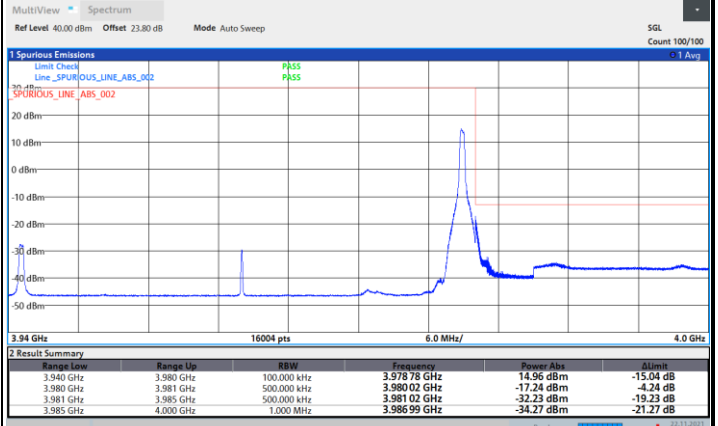
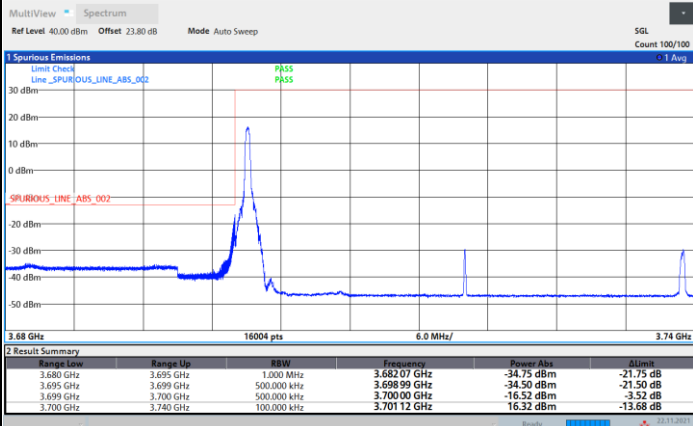




FR1 n77 / 40MHz / CP OFDM / 256QAM

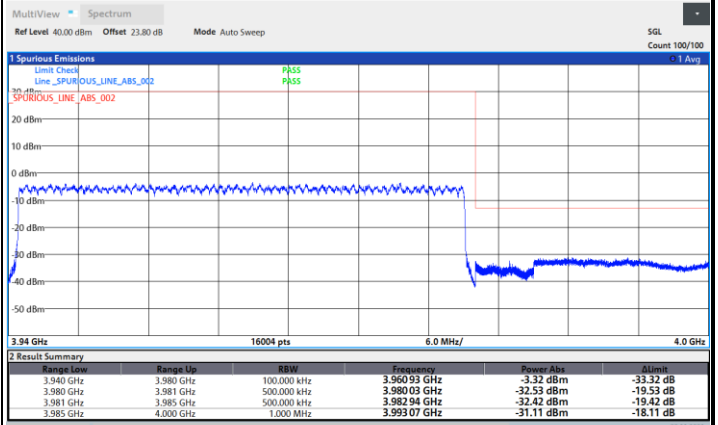
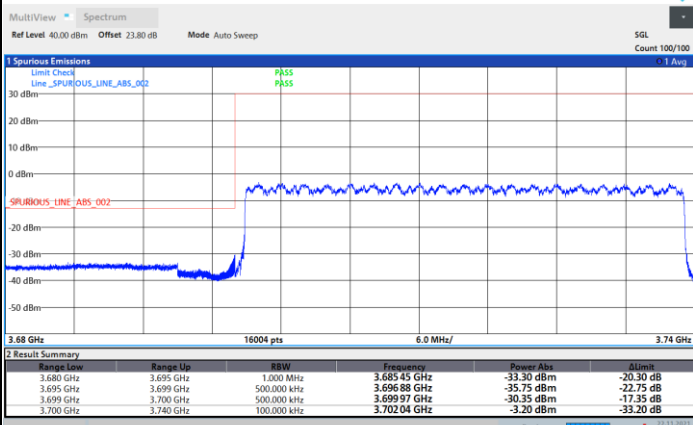
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

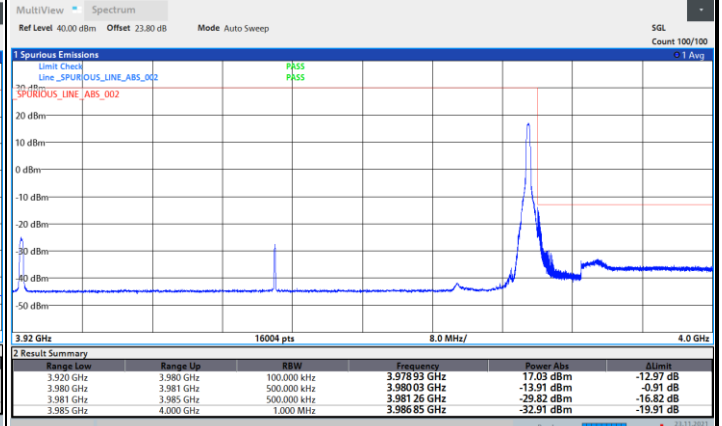
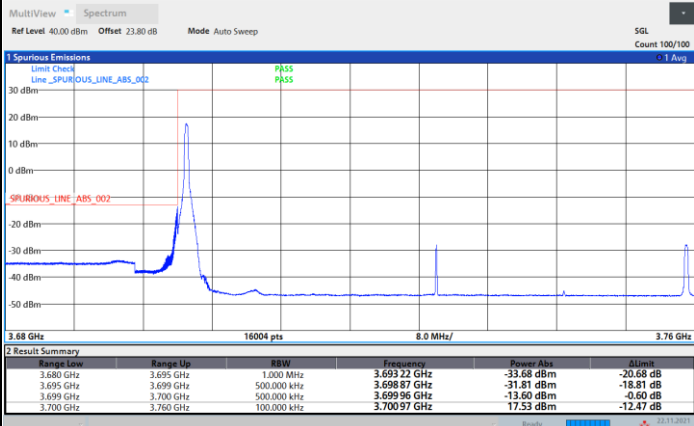




FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

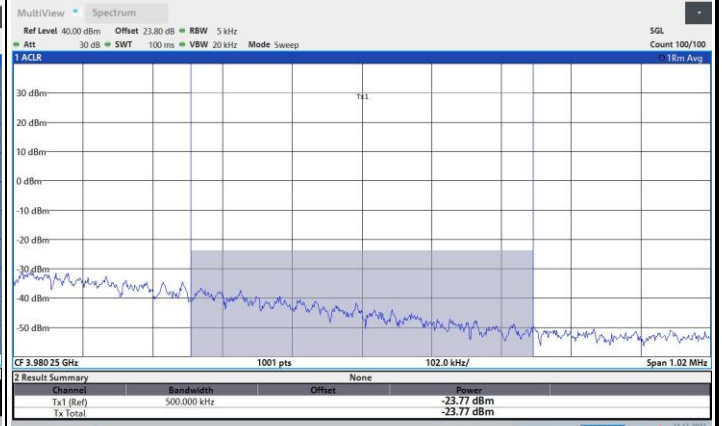
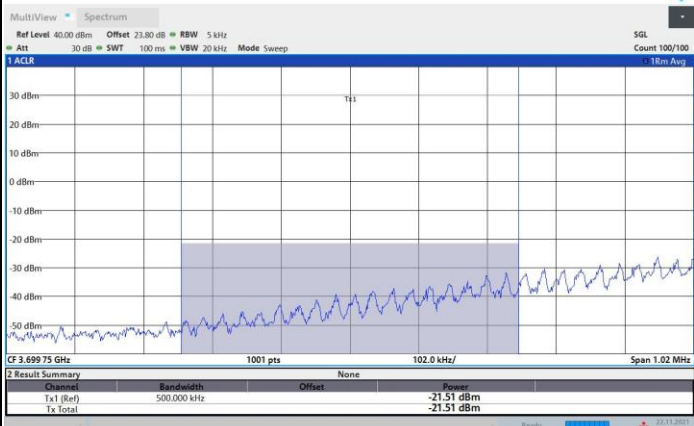


09:28:40 22.11.2021

01:33:17 23.11.2021

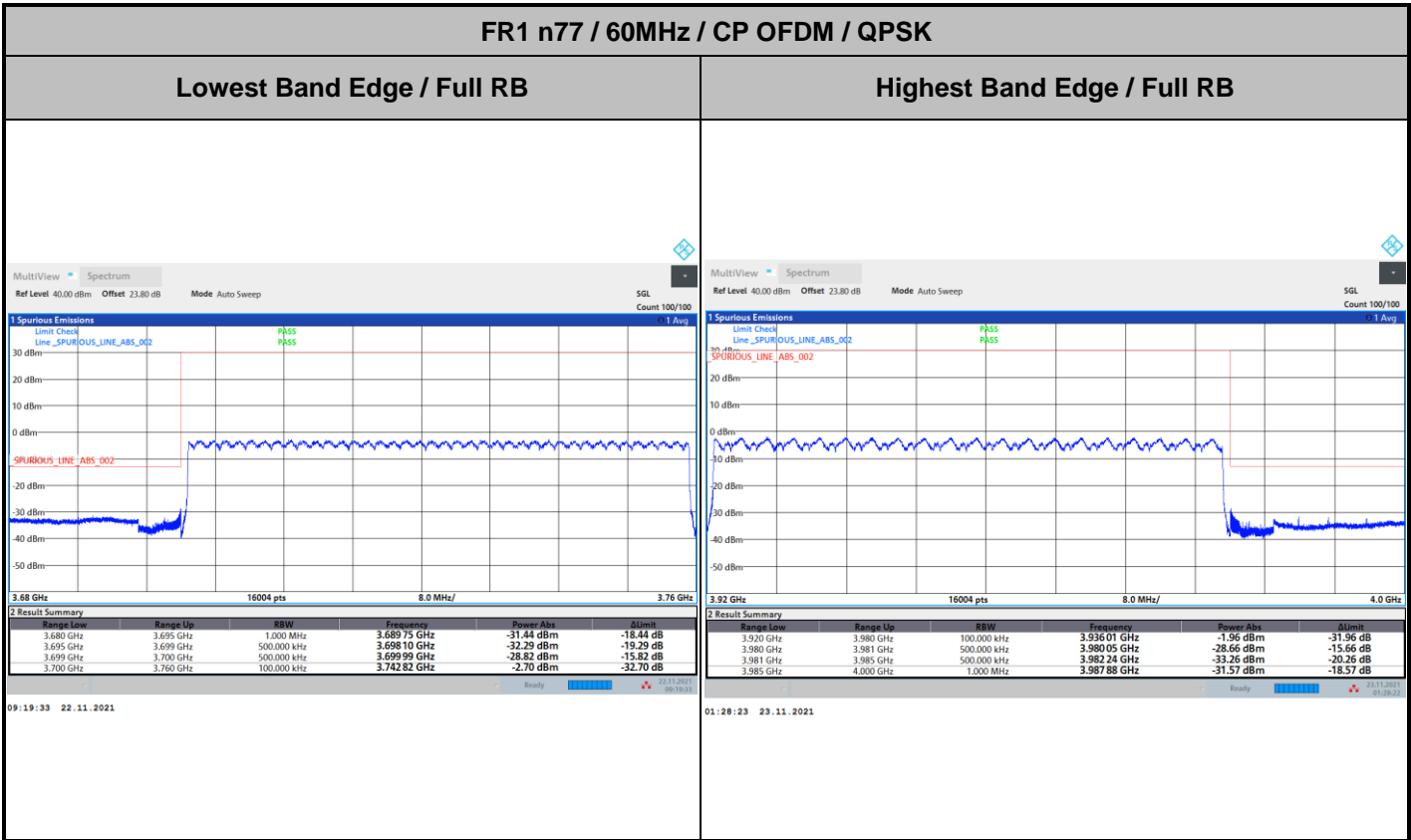
Channel power -13dBm > -21.51dBm (PASS)

Channel power -13dBm > -23.77dBm (PASS)



09:40:52 22.11.2021

01:35:37 23.11.2021

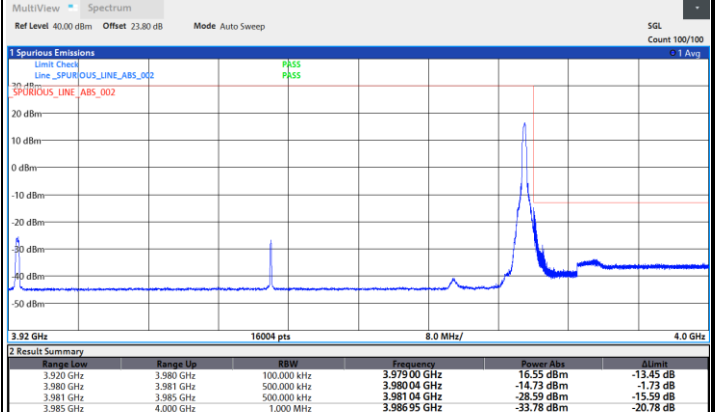
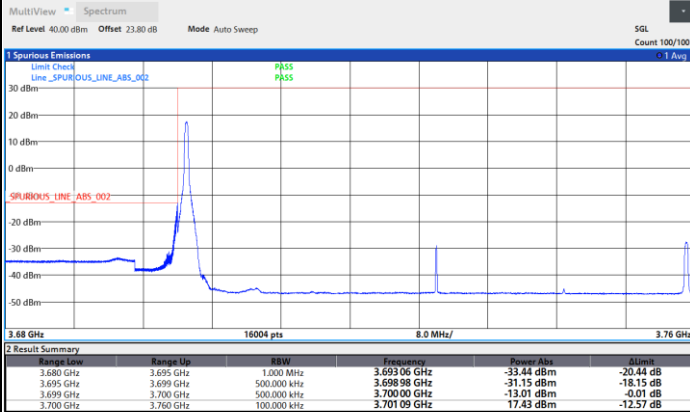




FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

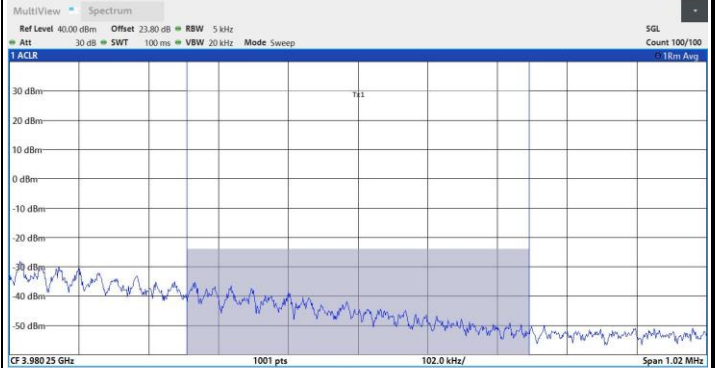
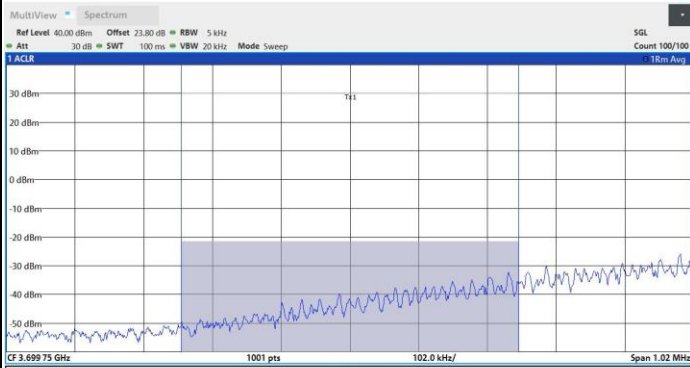


09:30:52 22.11.2021

01:32:24 23.11.2021

Channel power -13dBm > -21.58dBm (PASS)

Channel power -13dBm > -23.94dBm (PASS)



09:40:28 22.11.2021

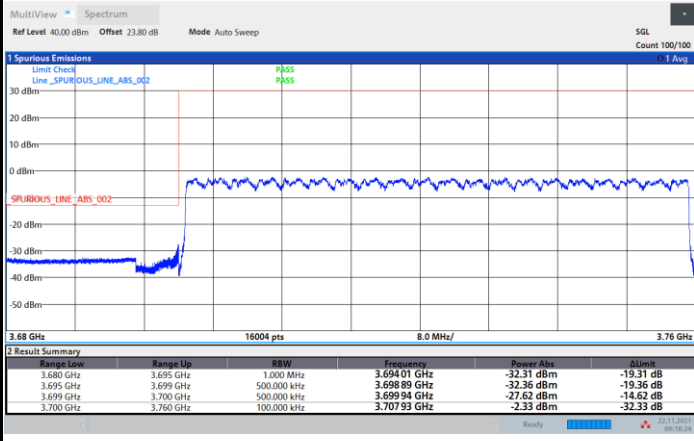
01:35:53 23.11.2021



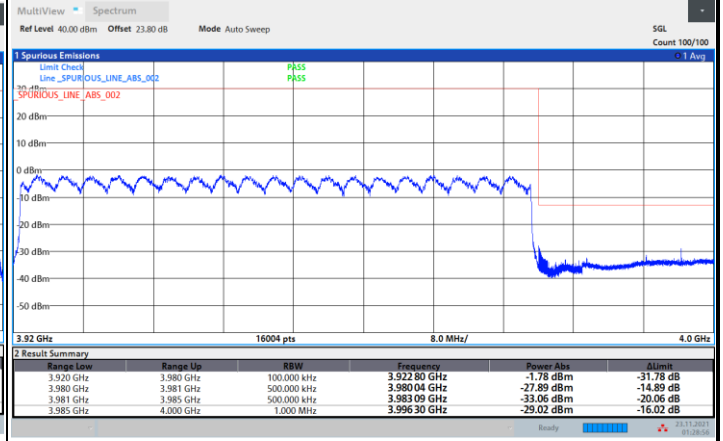
FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



09:18:25 22.11.2021



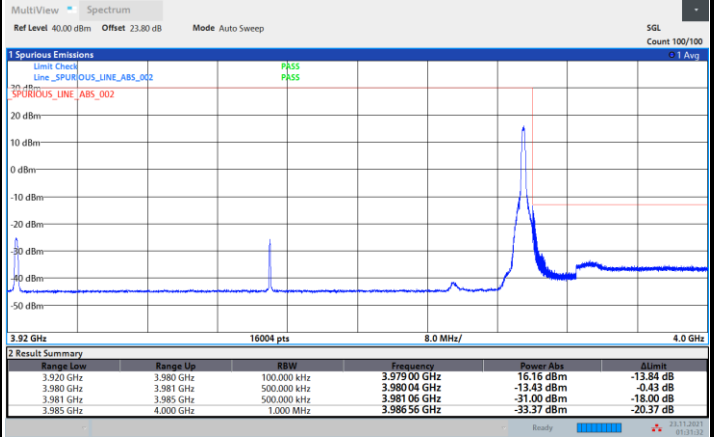
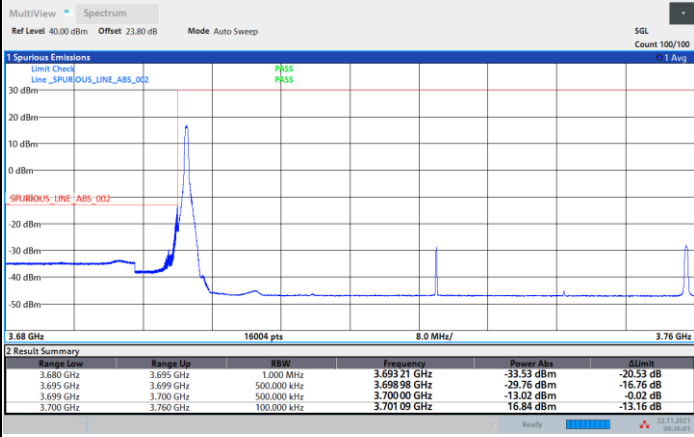
01:28:57 23.11.2021



FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

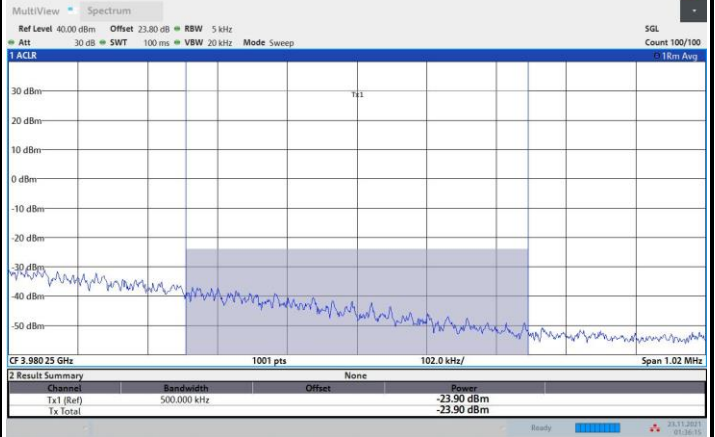
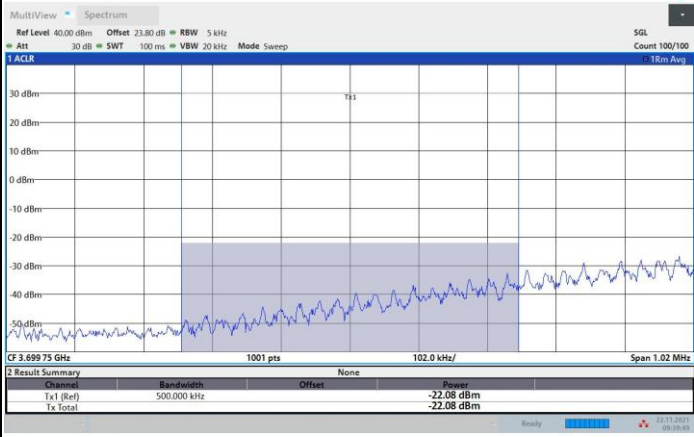


09:16:01 22.11.2021

01:31:32 23.11.2021

Channel power -13dBm > -22.08dBm (PASS)

Channel power -13dBm > -23.90dBm (PASS)



09:39:50 22.11.2021

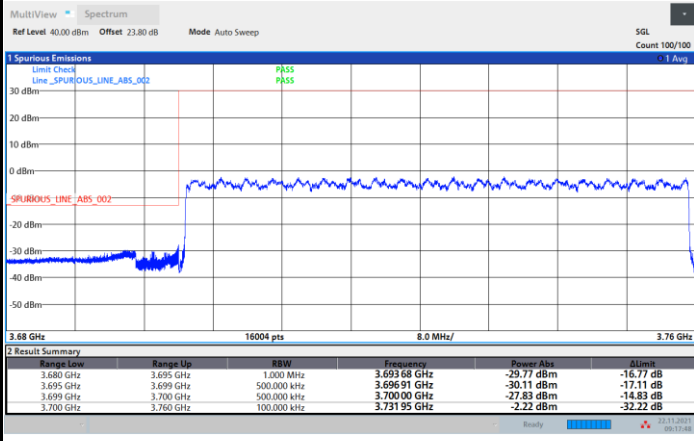
01:36:16 23.11.2021



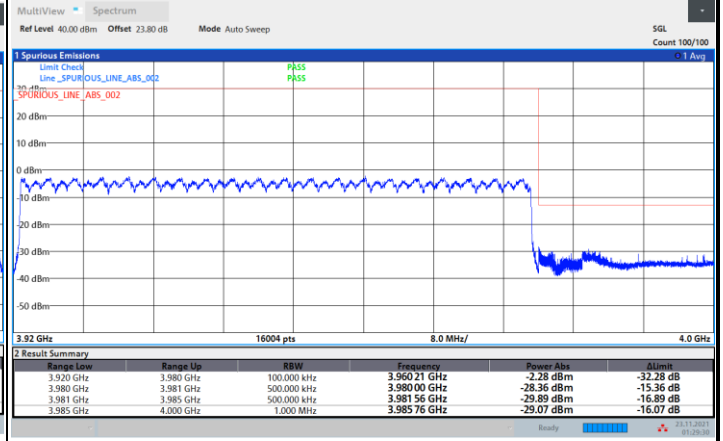
FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



09:17:49 22.11.2021



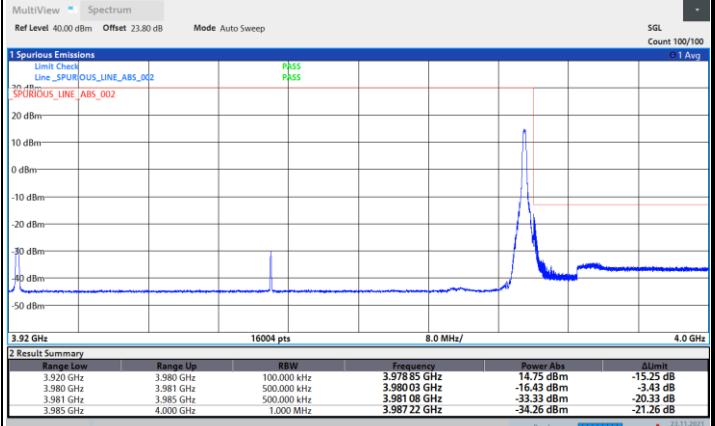
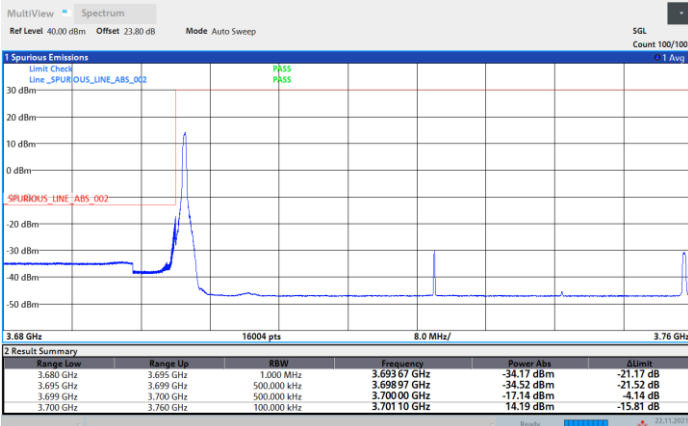
01:29:30 23.11.2021



FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

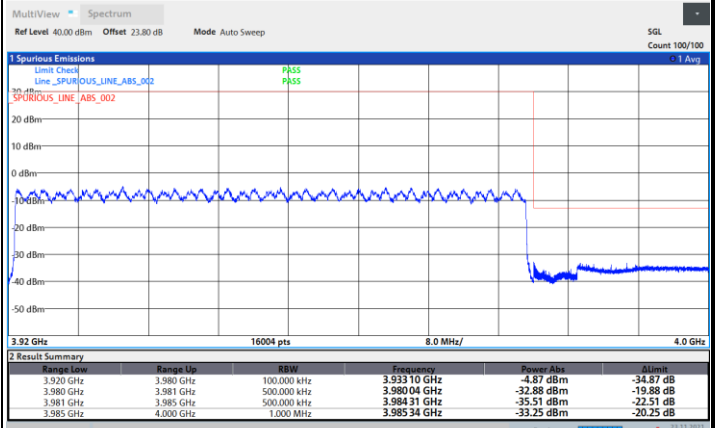
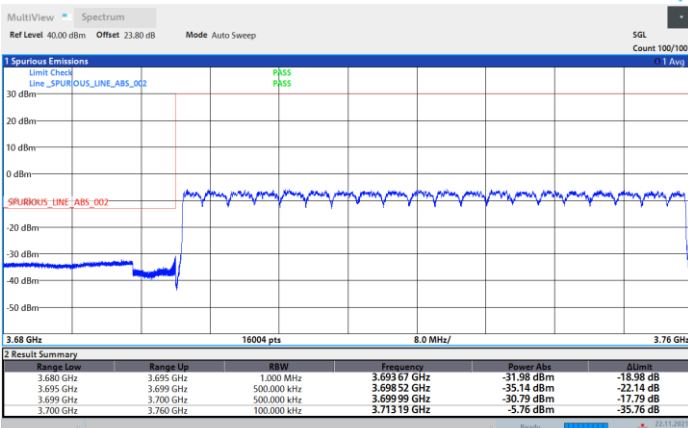


09:38:58 22.11.2021

01:30:58 23.11.2021

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



09:17:16 22.11.2021

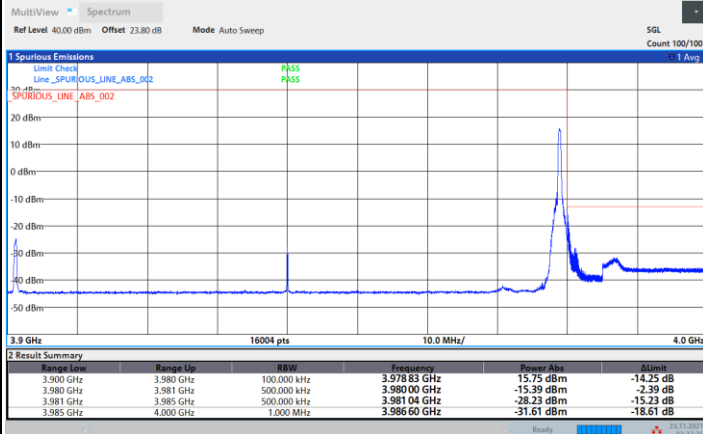
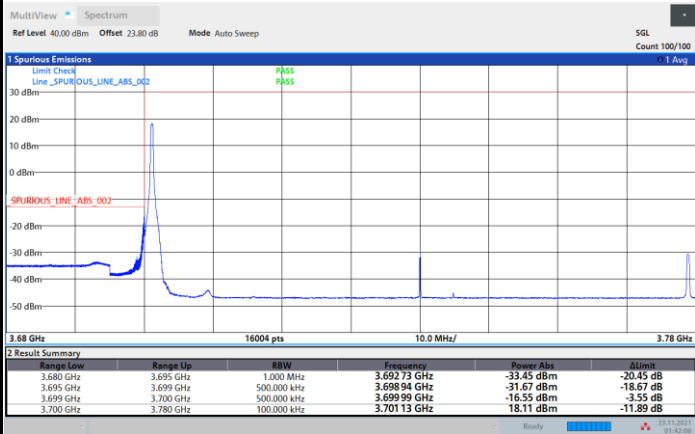
01:30:09 23.11.2021



FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

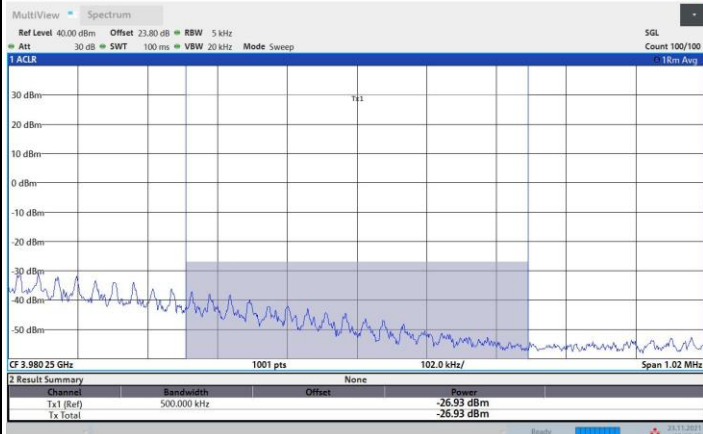
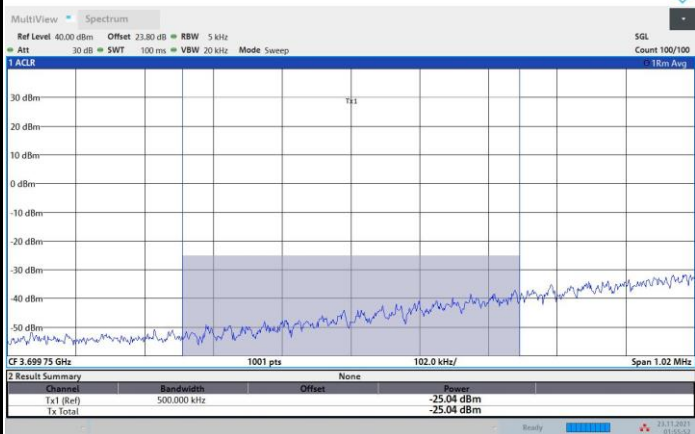


01:42:06 23.11.2021

02:37:25 23.11.2021

Channel power -13dBm > -25.04dBm (PASS)

Channel power -13dBm > -26.93dBm (PASS)



01:55:54 23.11.2021

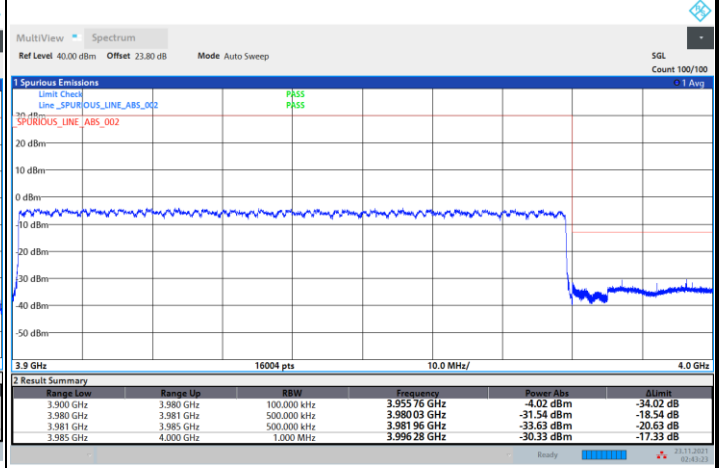
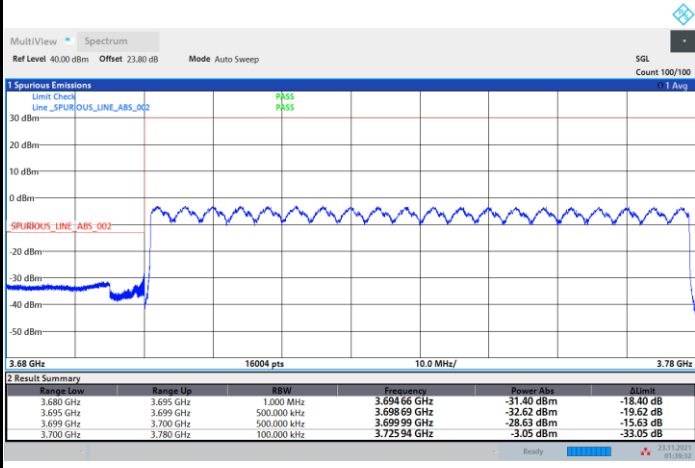
02:45:46 23.11.2021



FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

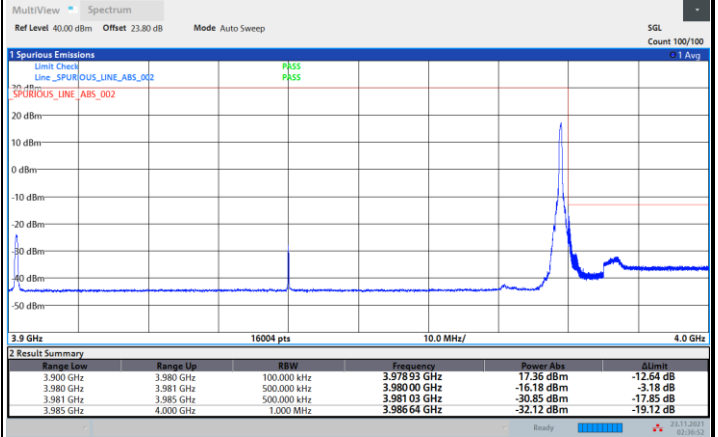
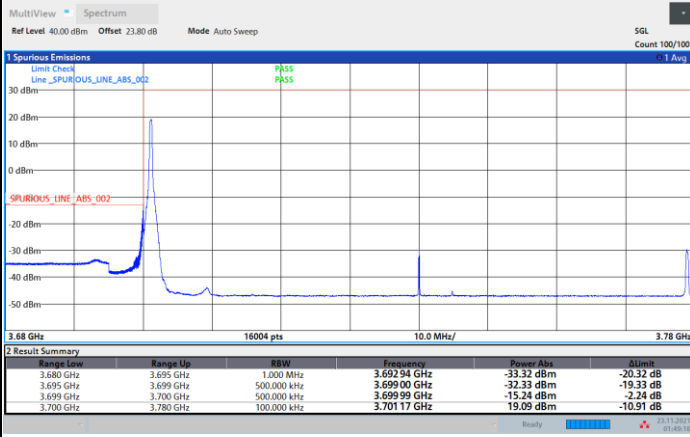




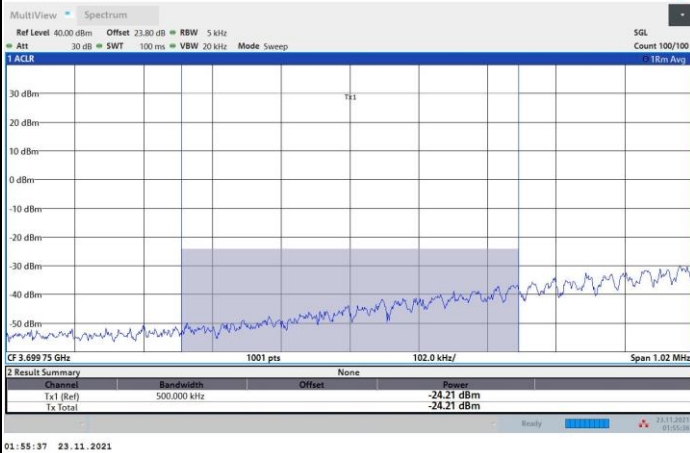
FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -24.21dBm (PASS)

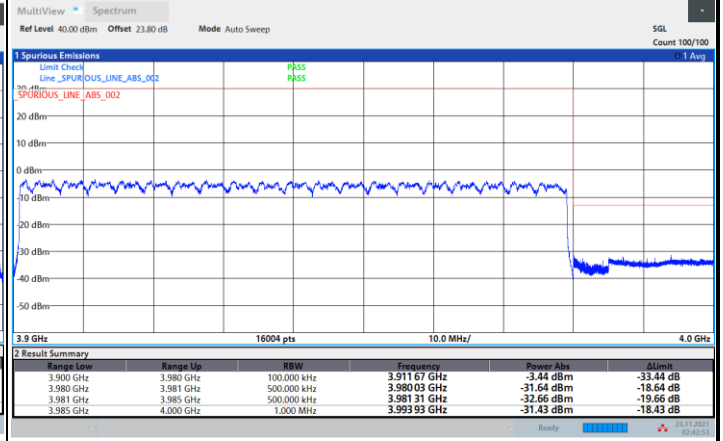
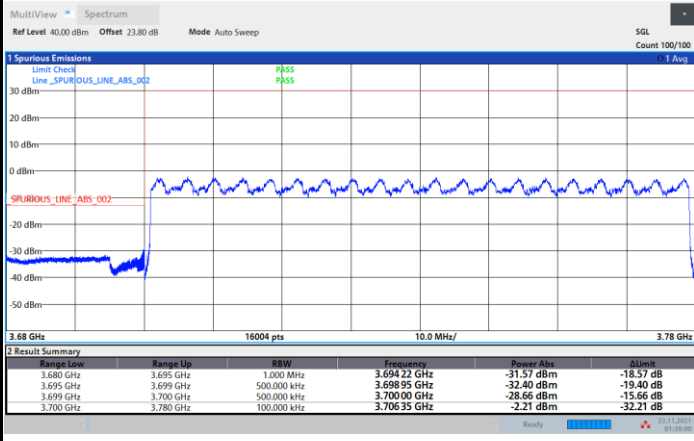




FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

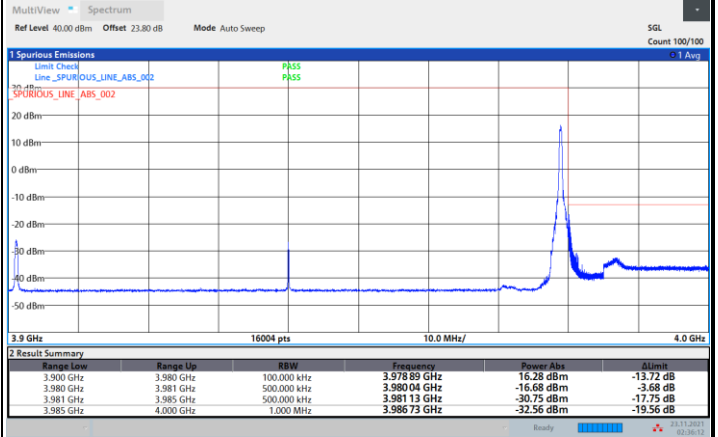
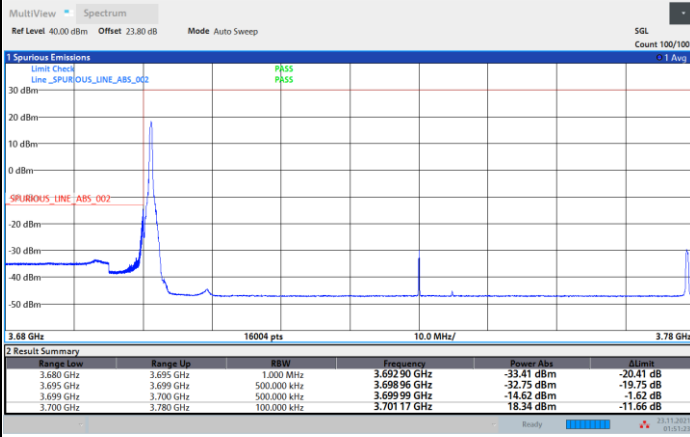




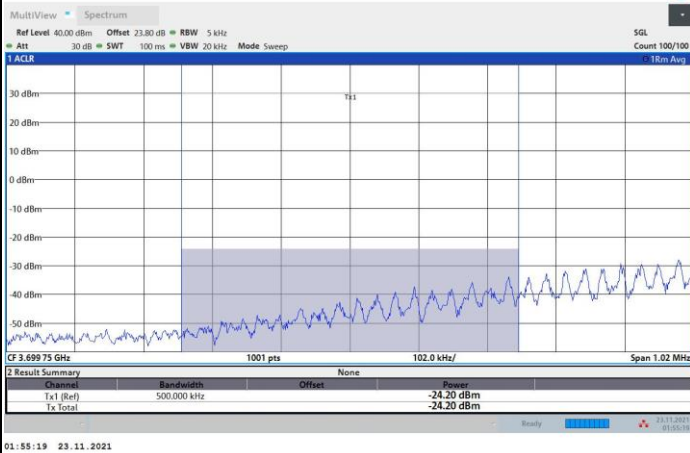
FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -24.20dBm (PASS)

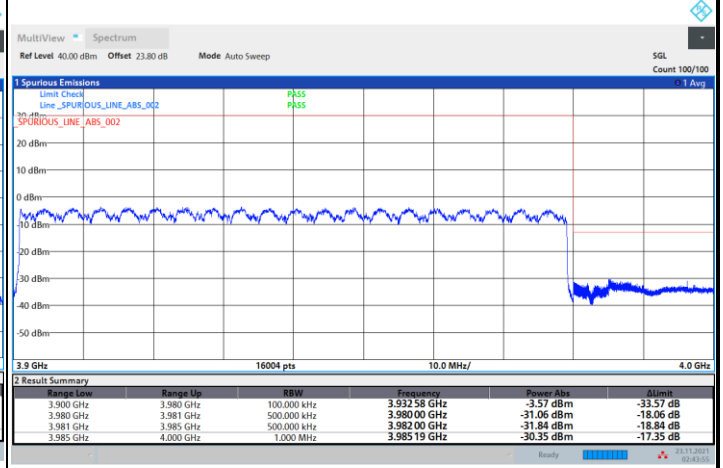
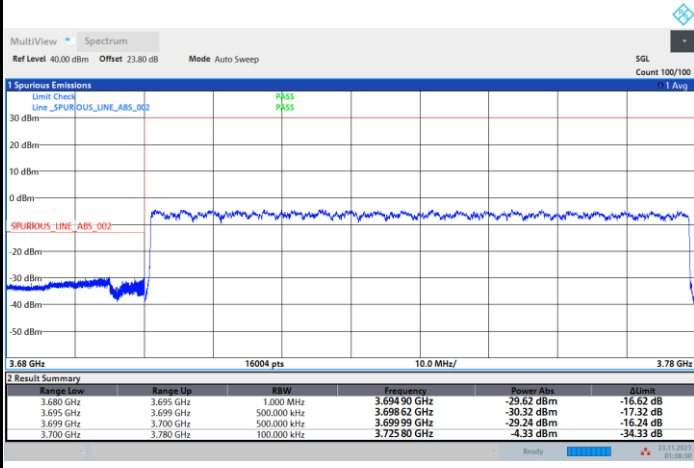




FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

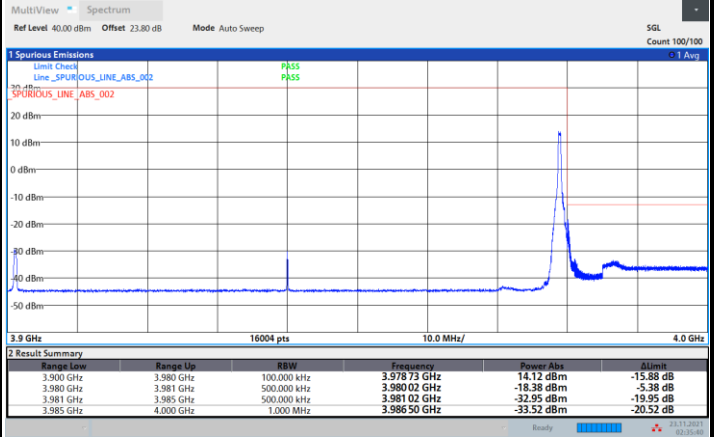
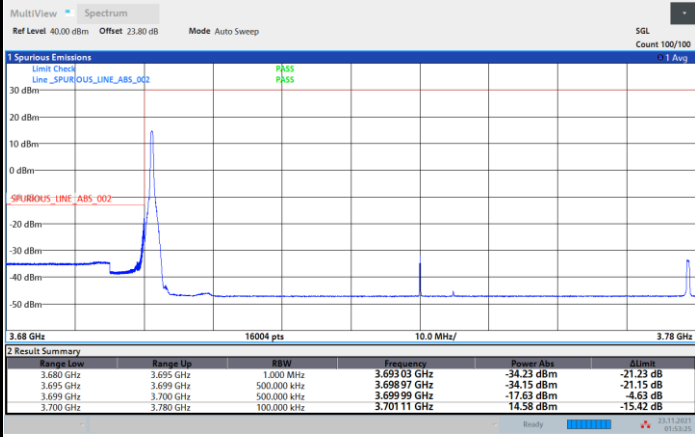




FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

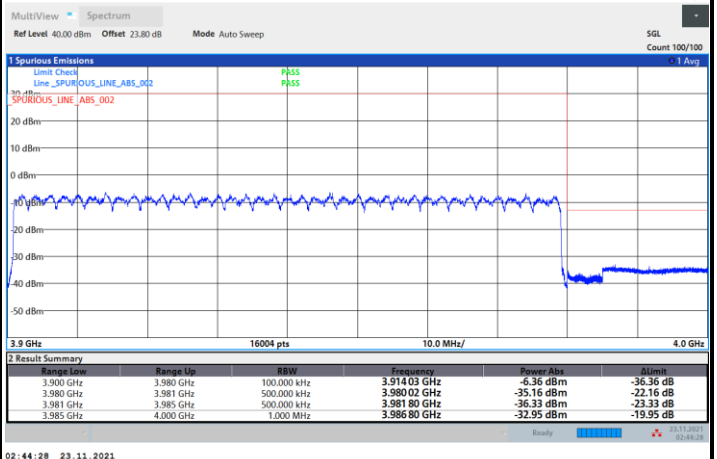
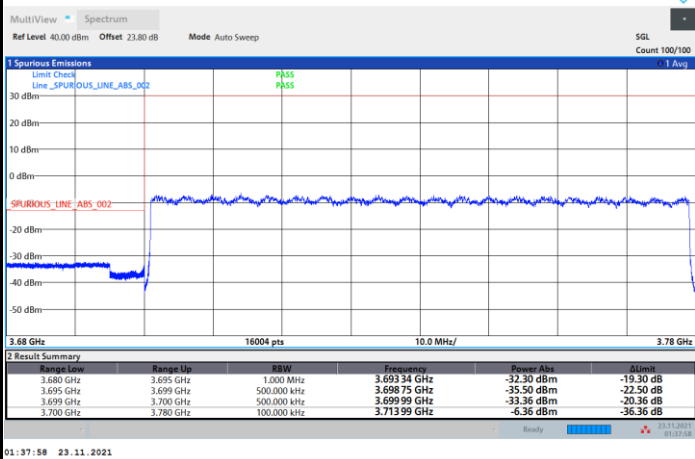


01:53:26 23.11.2021

02:35:40 23.11.2021

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



01:57:58 23.11.2021

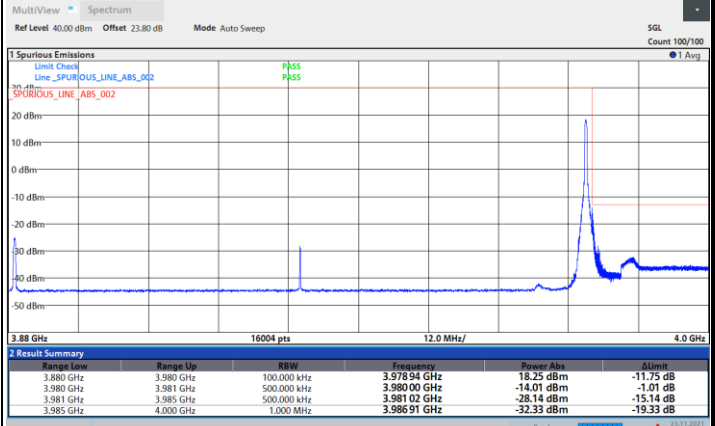
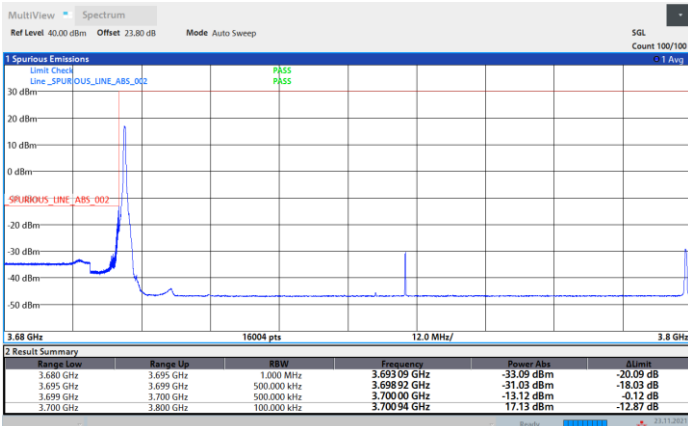
02:44:28 23.11.2021



FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

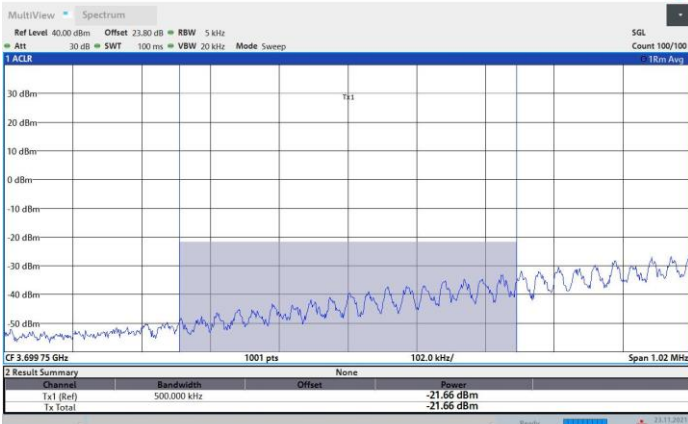


02:54:55 23.11.2021

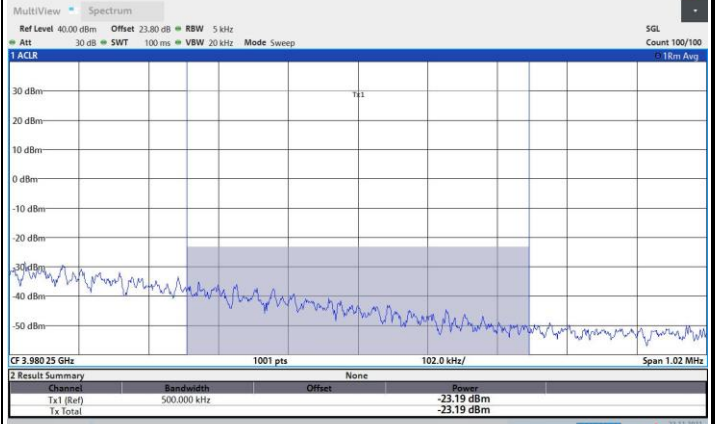
03:07:16 23.11.2021

Channel power -13dBm > -21.66dBm (PASS)

Channel power -13dBm > -23.19dBm (PASS)



03:05:26 23.11.2021



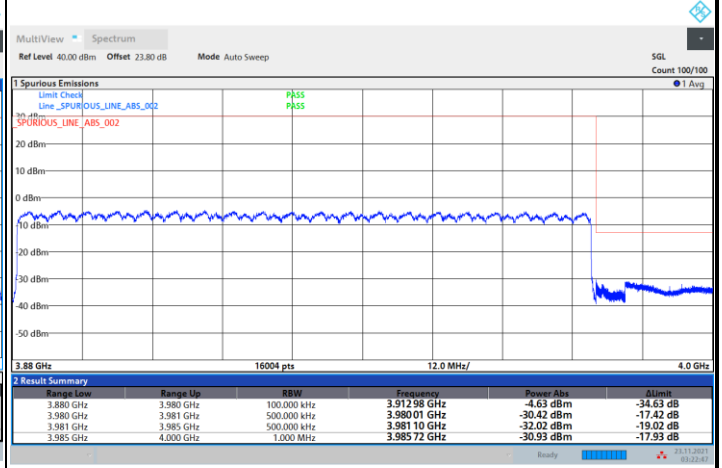
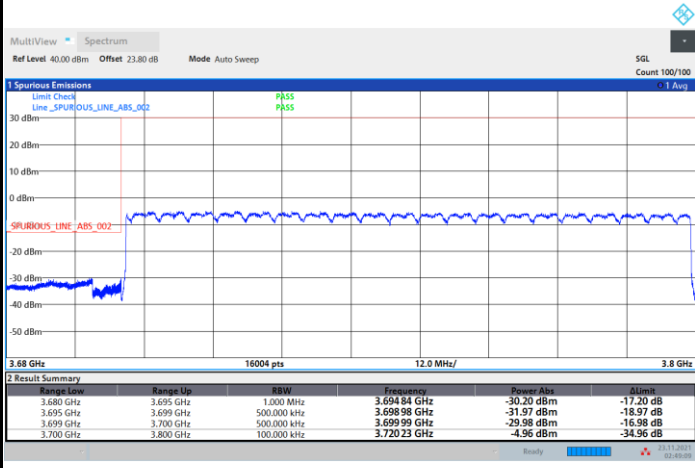
03:10:43 23.11.2021



FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

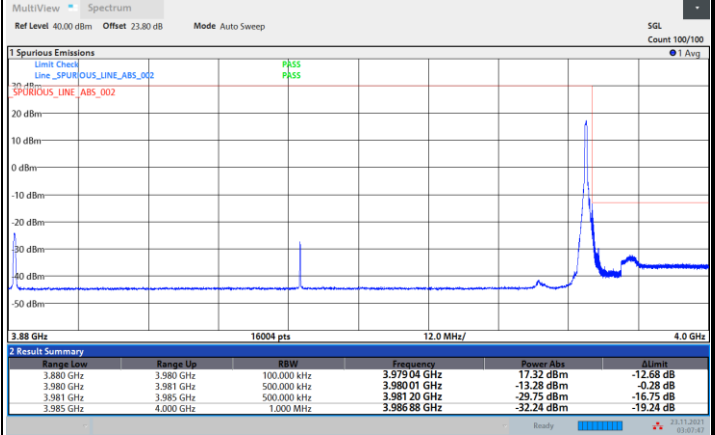
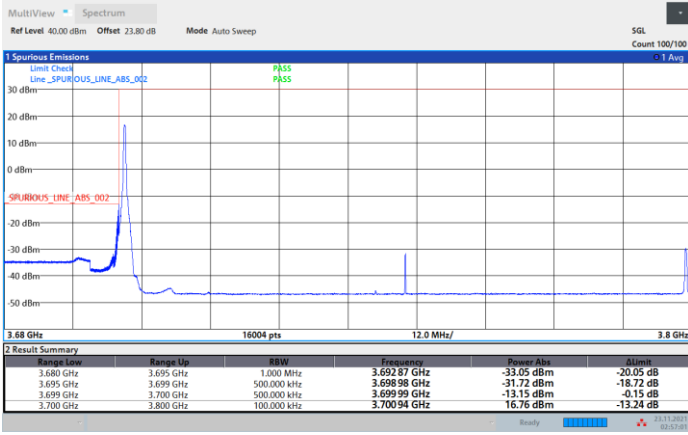




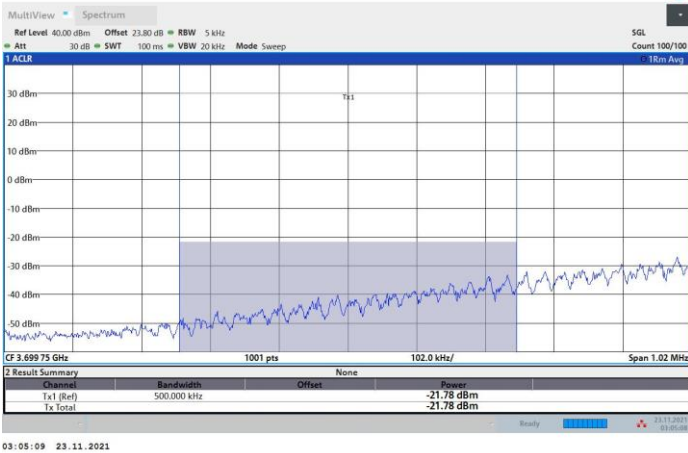
FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -21.78dBm (PASS)

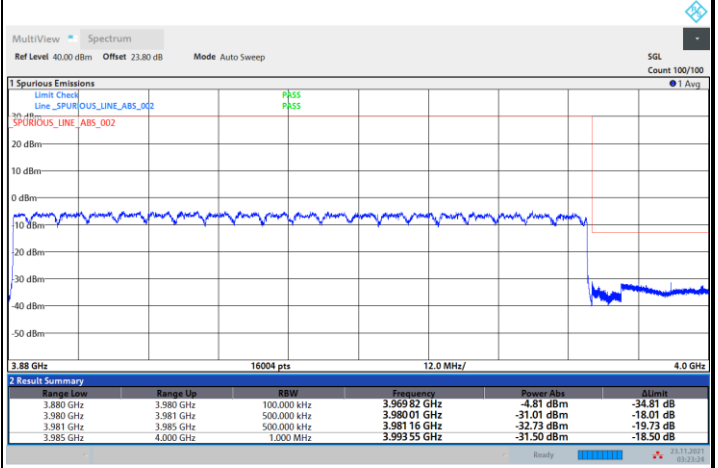
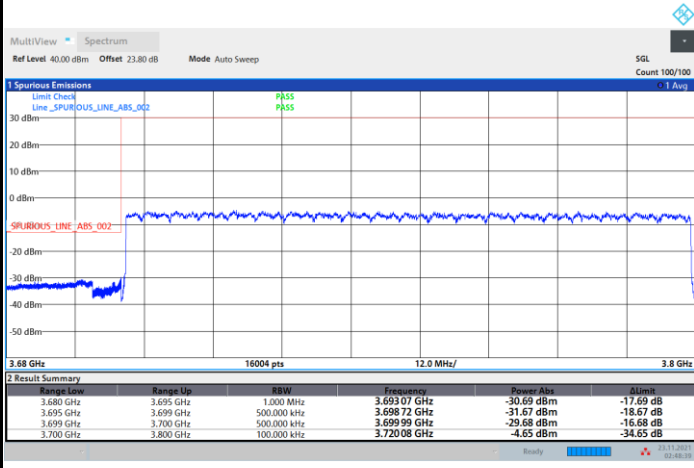




FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

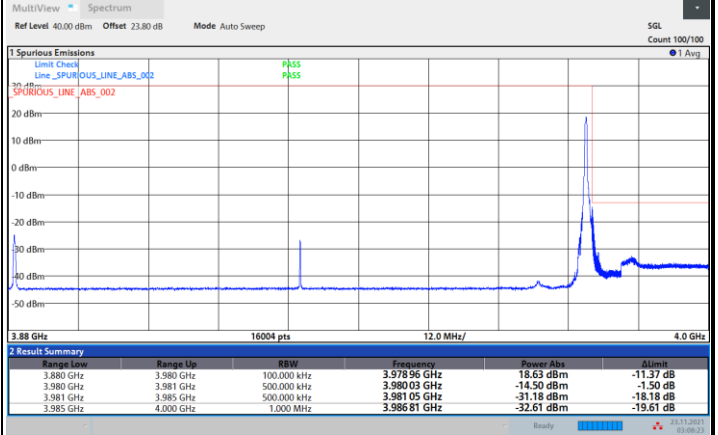
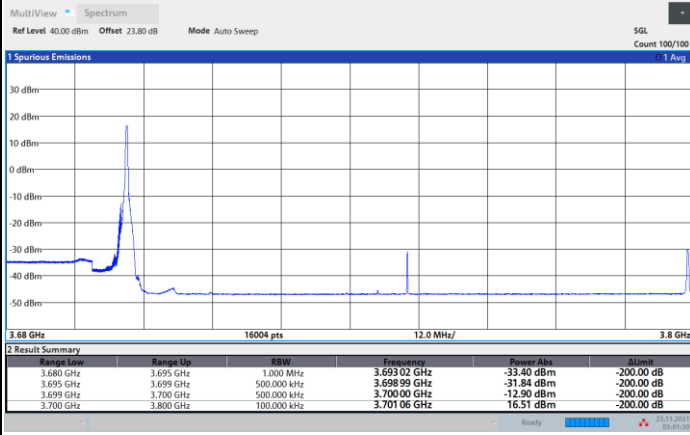




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

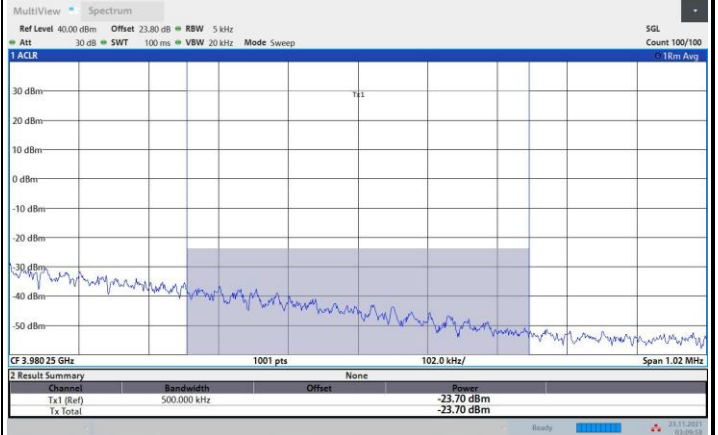
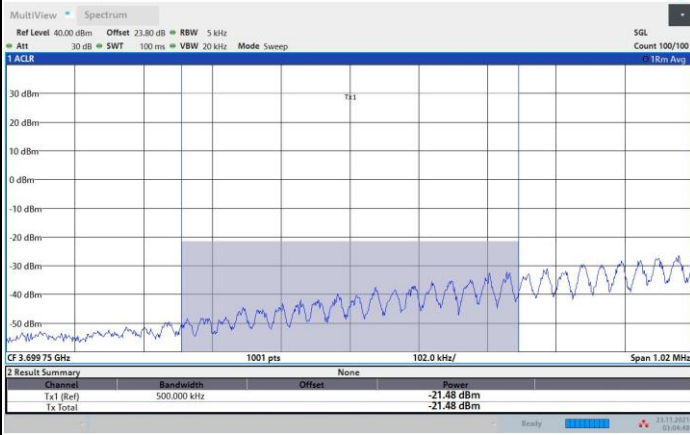


03:01:31 23.11.2021

03:08:23 23.11.2021

Channel power -13dBm > -21.48dBm (PASS)

Channel power -13dBm > -23.70dBm (PASS)



03:04:48 23.11.2021

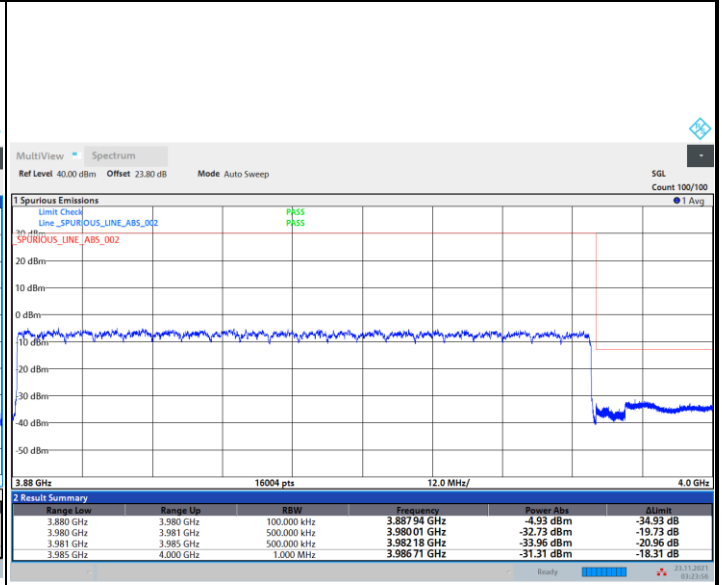
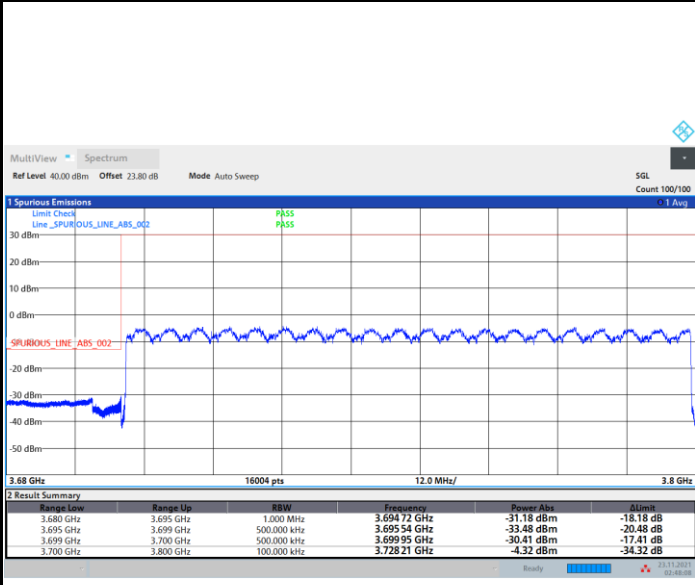
03:09:59 23.11.2021



FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

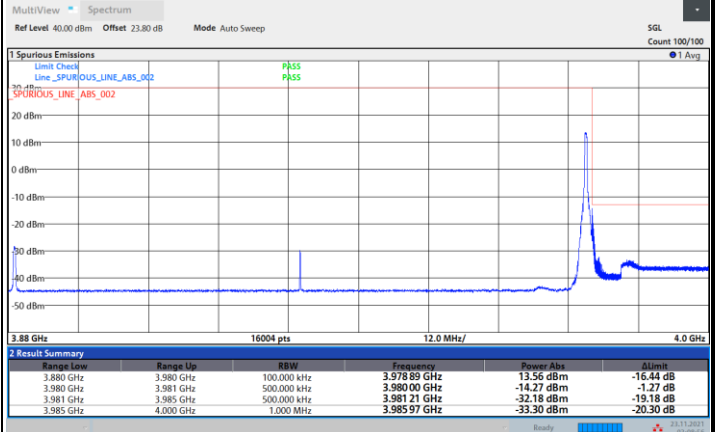
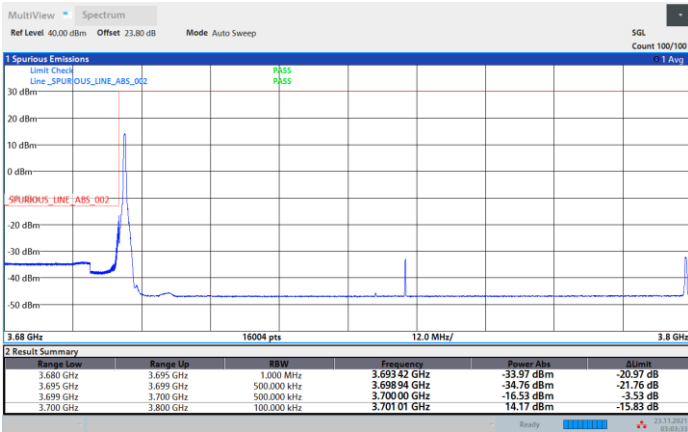




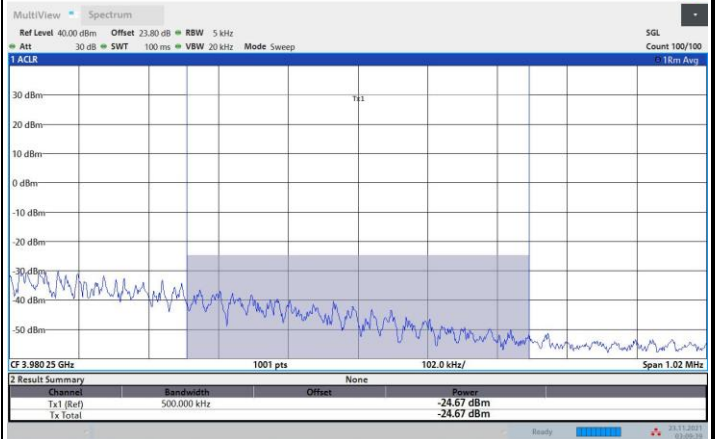
FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -24.67dBm (PASS)

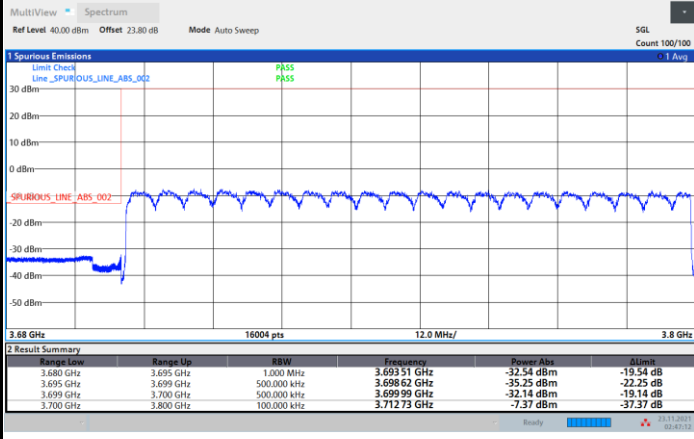




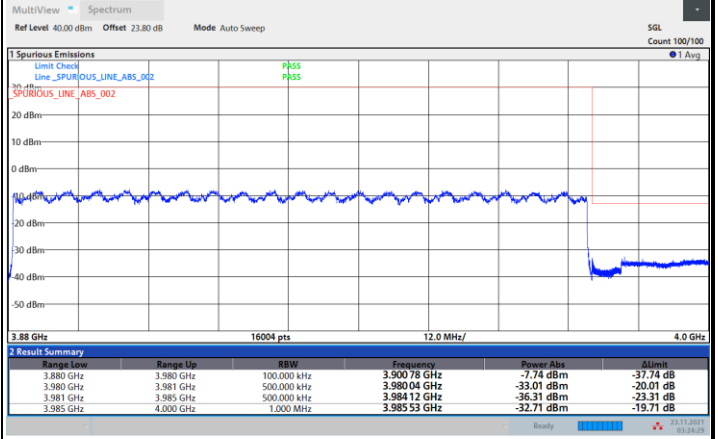
FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:47:12 23.11.2021



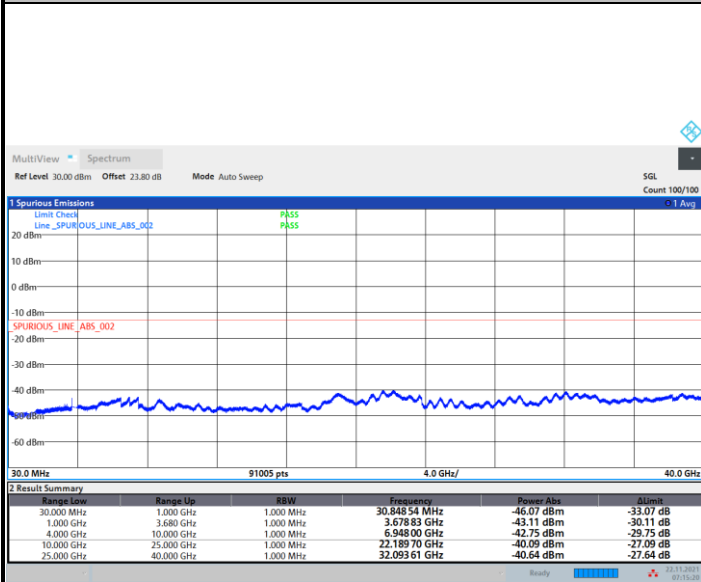
03:24:29 23.11.2021



Conducted Spurious Emission

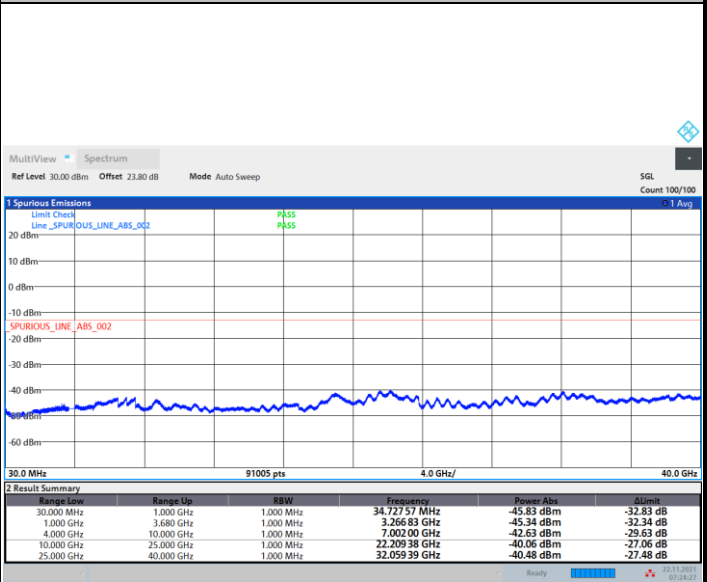
FR1 n77 / 20MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



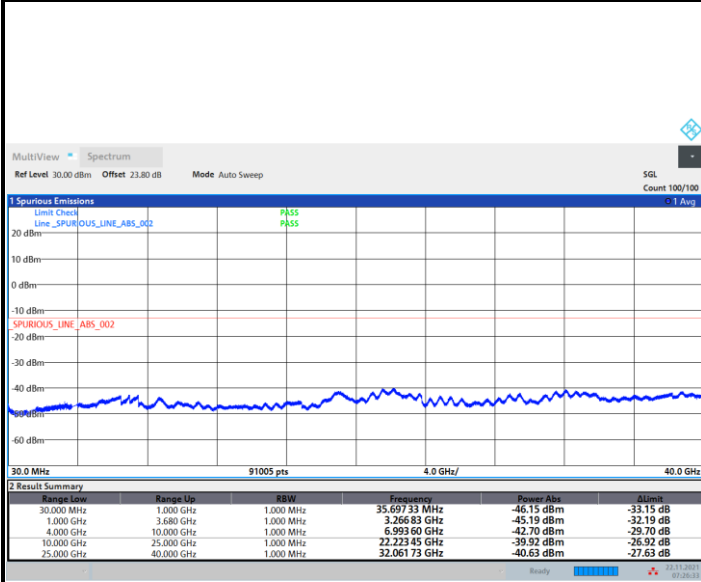
07:15:20 22.11.2021

Middle Channel



07:24:27 22.11.2021

Highest Channel



07:26:33 22.11.2021



Frequency Stability

| Test Conditions | | FR1 n77 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0020 | PASS |
| 40 | Normal Voltage | 0.0028 | |
| 30 | Normal Voltage | 0.0009 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0005 | |
| 0 | Normal Voltage | 0.0032 | |
| -10 | Normal Voltage | 0.0002 | |
| -20 | Normal Voltage | 0.0013 | |
| -30 | Normal Voltage | 0.0008 | |
| 20 | Maximum Voltage | 0.0006 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0028 | |

Note:

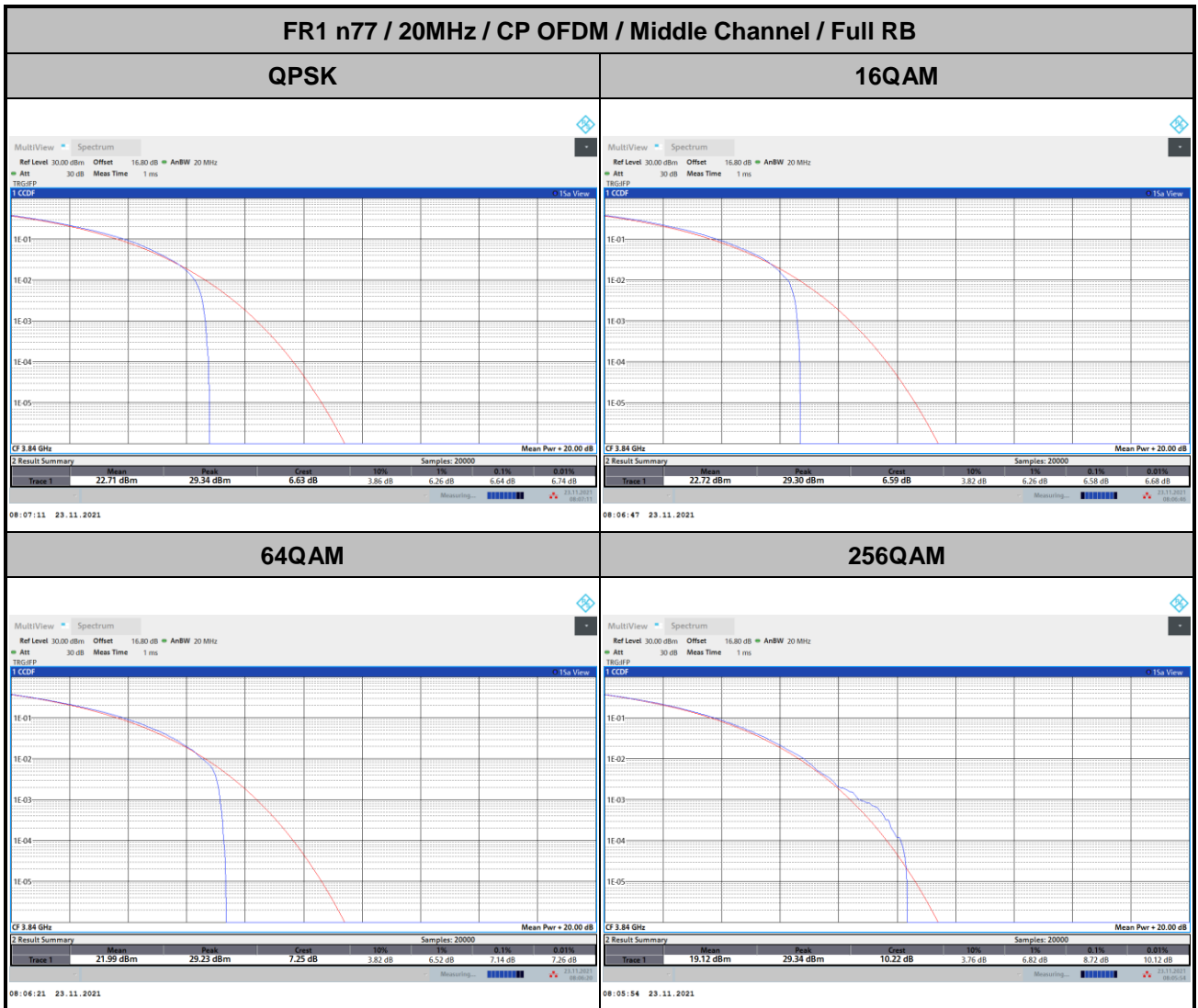
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 1>

Peak-to-Average Ratio

| | | | | | |
|-----------|---------------------------|---------|---------|---------|-------------|
| Mode | FR1 n77 / 20MHz / CP OFDM | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 6.64 | 6.58 | 7.14 | 8.72 | PASS |





26dB Bandwidth

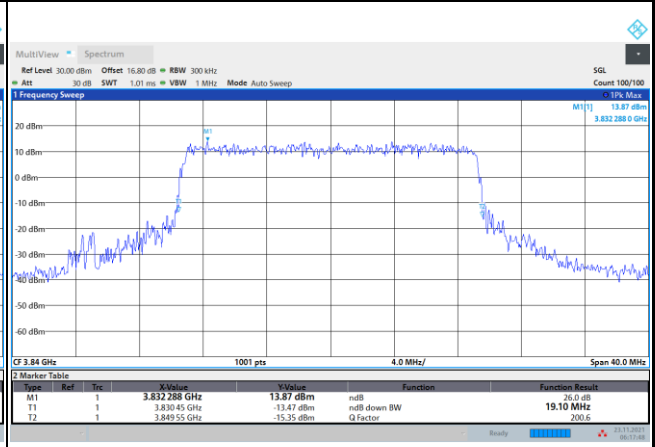
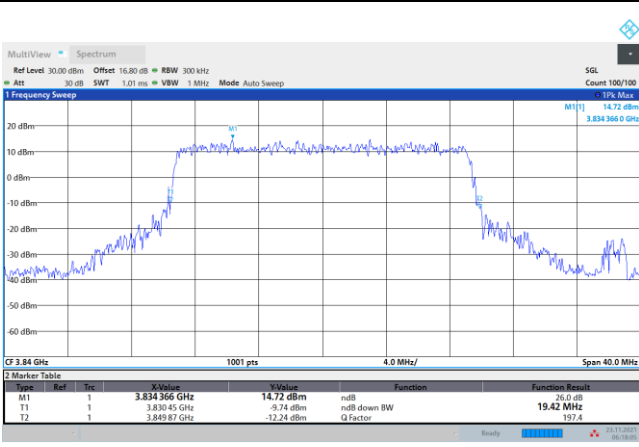
| Mode | FR1 n77 : 26dB BW(MHz) / CP OFDM | | | | | | | |
|-----------|----------------------------------|--------|-------|--------|-------|--------|-------|--------|
| BW | 20MHz | | 30MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 19.42 | 19.10 | 29.07 | 28.89 | 38.84 | 39.16 | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 19.18 | 19.06 | 28.95 | 29.13 | 39.24 | 39.32 | - | - |
| BW | 60MHz | | 70MHz | | 80MHz | | 90MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 60.54 | 60.42 | - | - | 80.40 | 80.40 | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 60.66 | 60.66 | - | - | 80.24 | 80.24 | - | - |
| BW | 100MHz | | | | | | | |
| Mod. | QPSK | 16QAM | | | | | | |
| Middle CH | 100.50 | 100.50 | | | | | | |
| Mod. | 64QAM | 256QAM | | | | | | |
| Middle CH | 100.50 | 100.70 | | | | | | |



FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

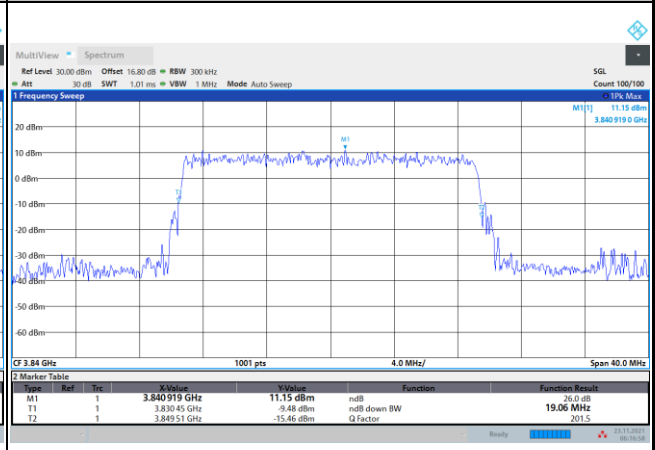
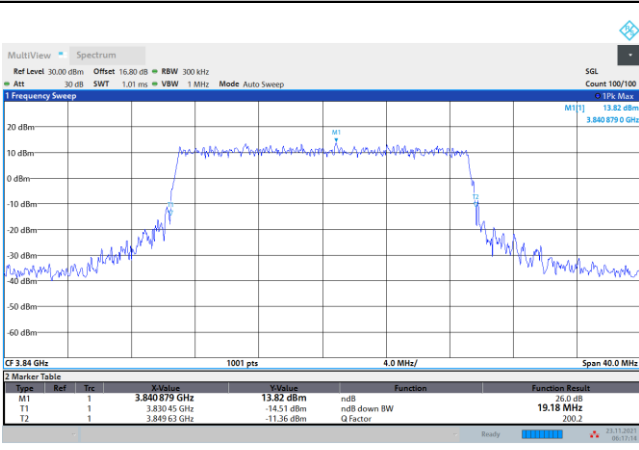
QPSK

16QAM



64QAM

256QAM

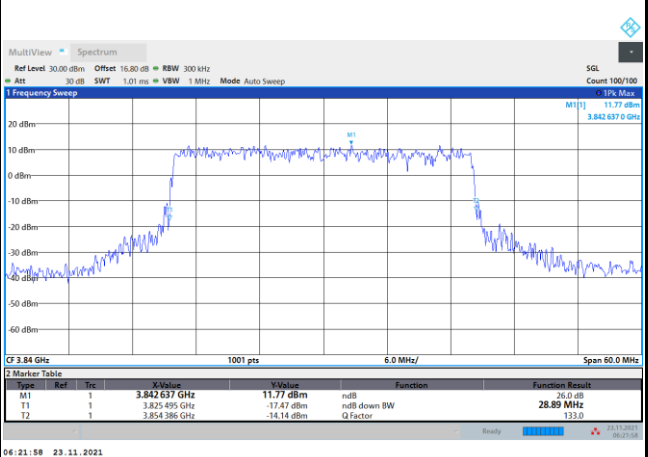
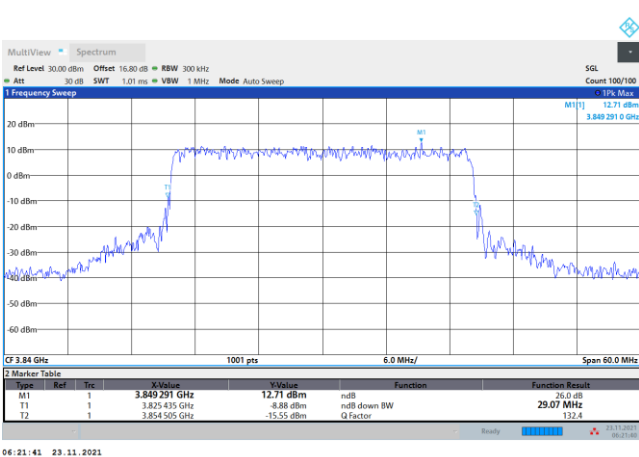




FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

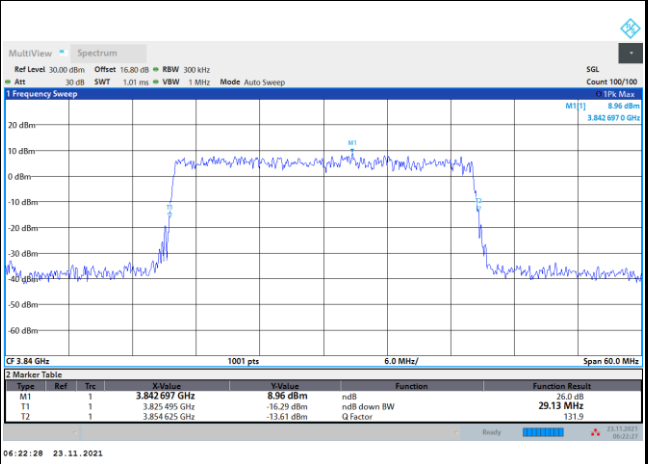
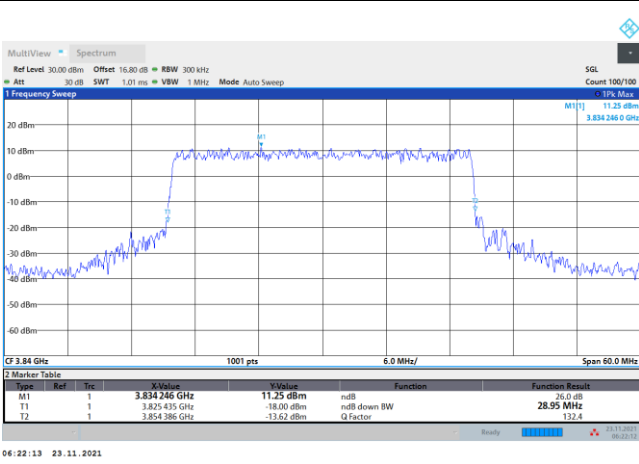
QPSK

16QAM



64QAM

256QAM

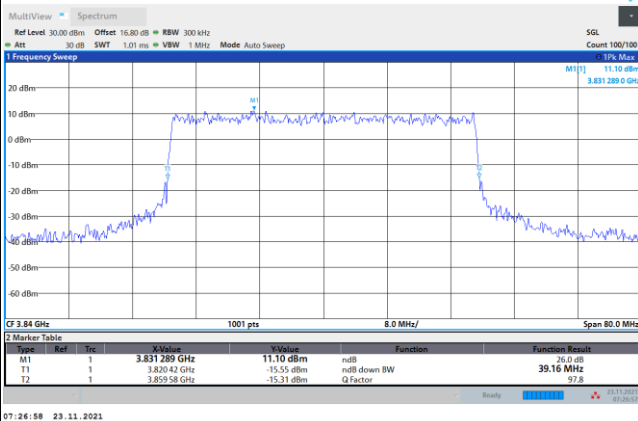
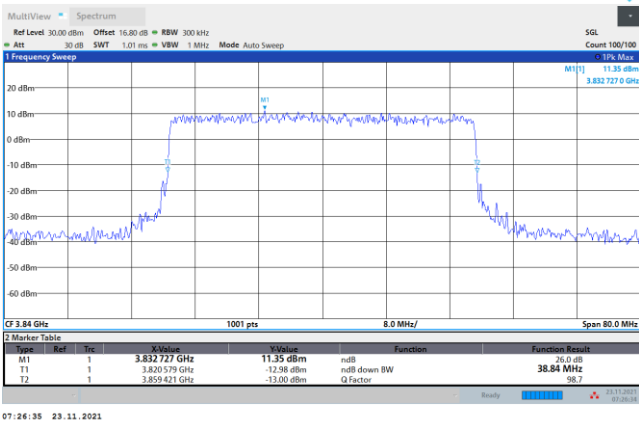




FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

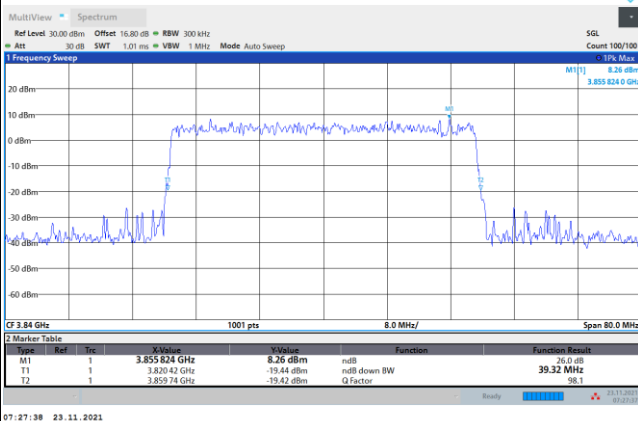
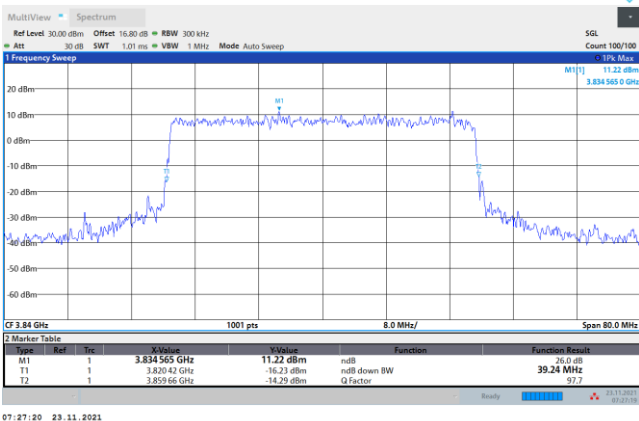
QPSK

16QAM



64QAM

256QAM

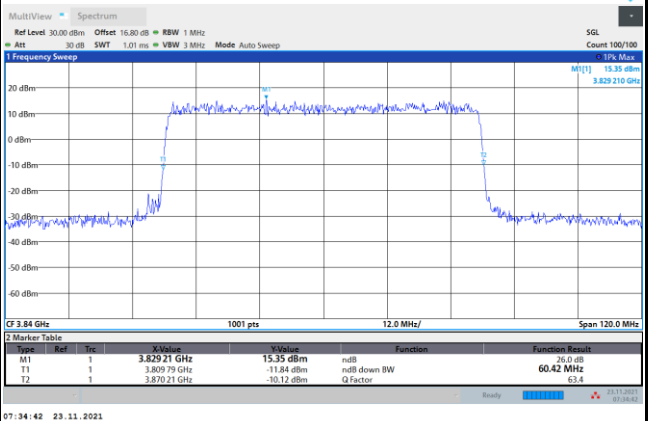
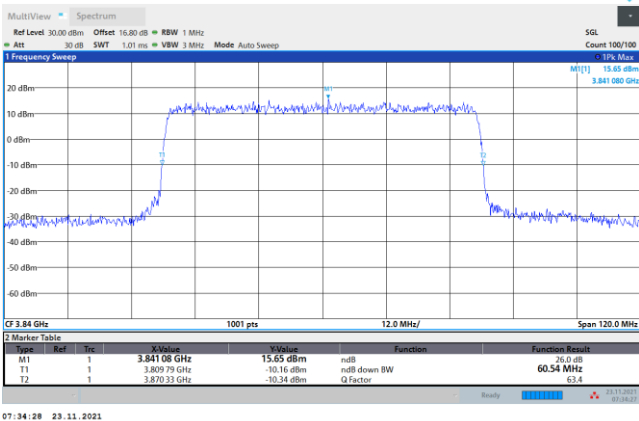




FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



64QAM

256QAM

