



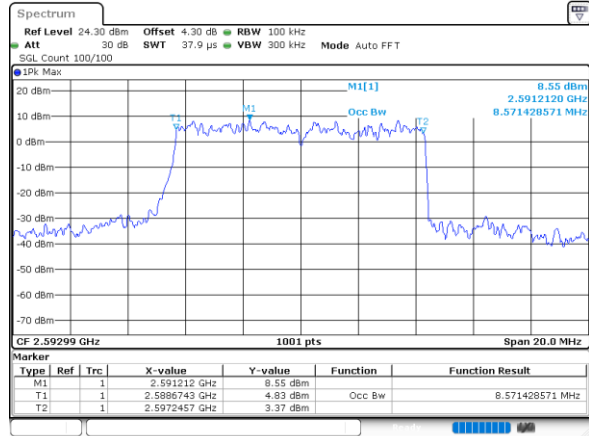
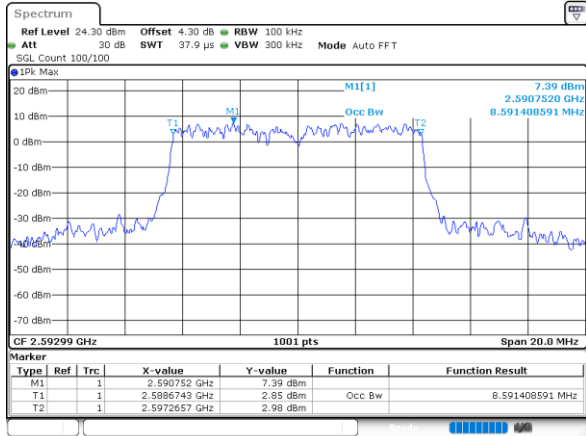
FR1 UL-MIMO n41 / 10MHz / CP-OFDM (M)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 15. JAN. 2021 20:46:02

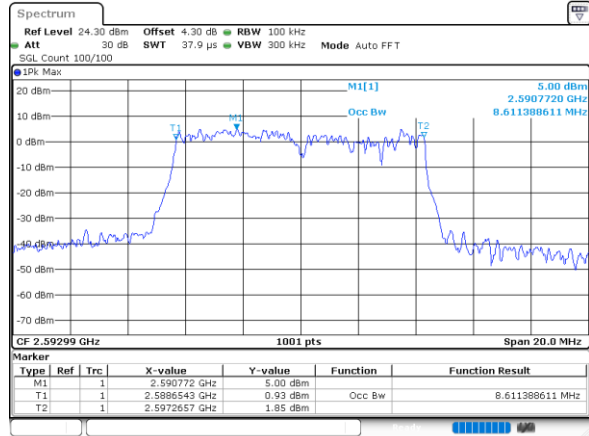
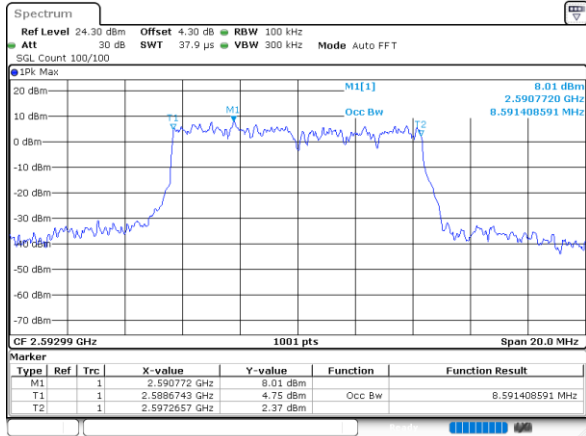
Date: 15. JAN. 2021 20:46:26

64QAM

256QAM

Middle Channel

Middle Channel



Date: 15. JAN. 2021 20:47:00

Date: 15. JAN. 2021 20:48:00



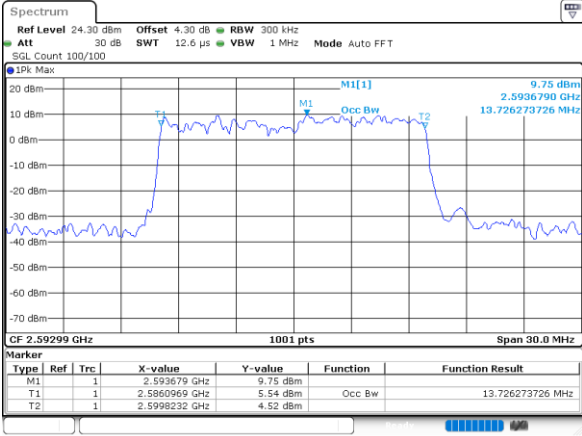
FR1 UL-MIMO n41 / 15MHz / CP-OFDM (M2)

QPSK

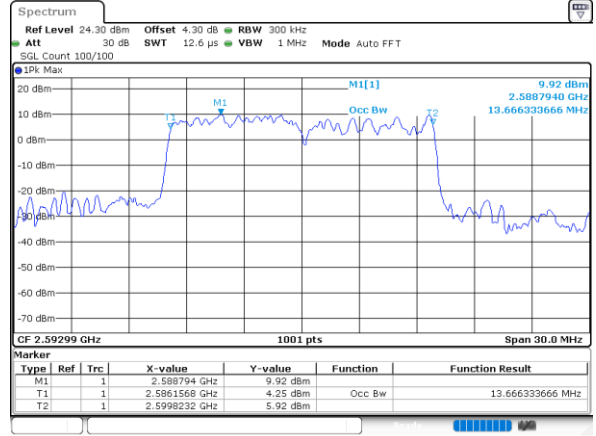
16QAM

Middle Channel

Middle Channel



Date: 15_JAN_2021 22:136:134



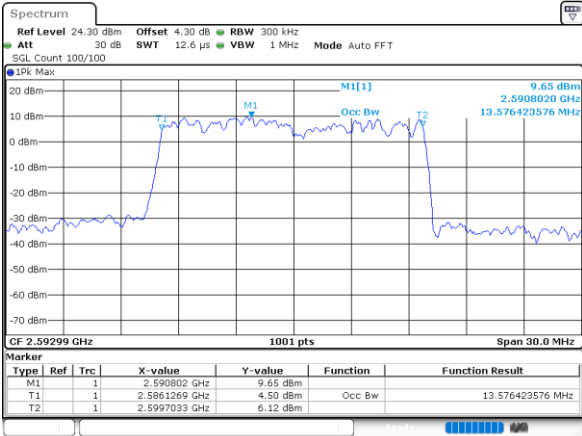
Date: 15_JAN_2021 22:138:122

64QAM

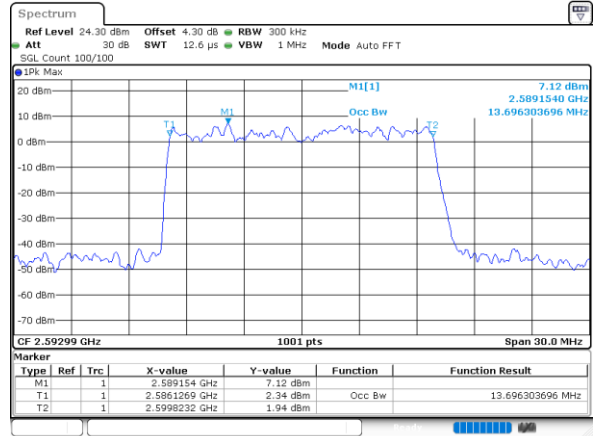
256QAM

Middle Channel

Middle Channel



Date: 15_JAN_2021 22:138:59



Date: 15_JAN_2021 22:139:128



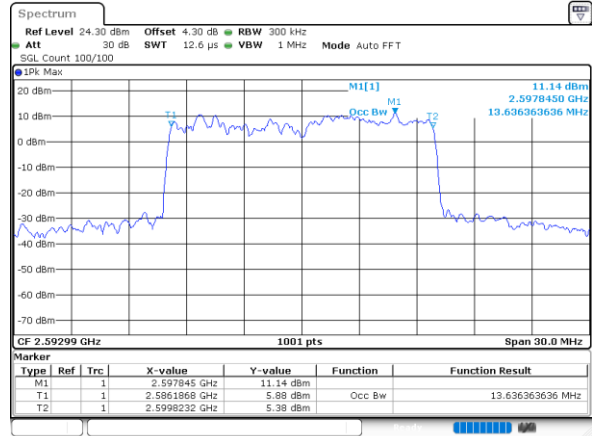
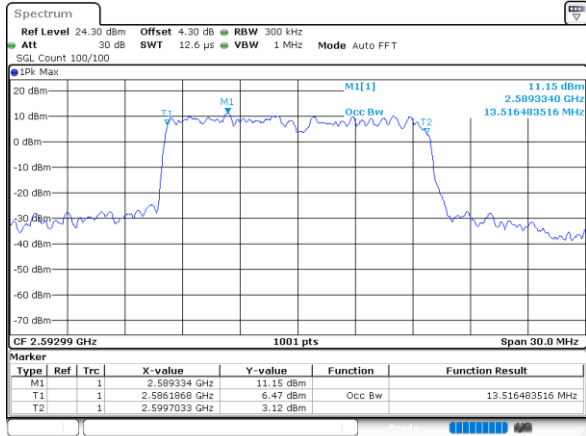
FR1 UL-MIMO n41 / 15MHz / CP-OFDM (M)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 15.JAN.2021 20:20:58

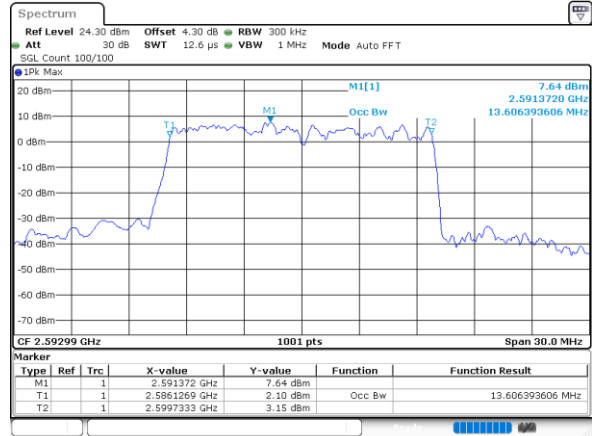
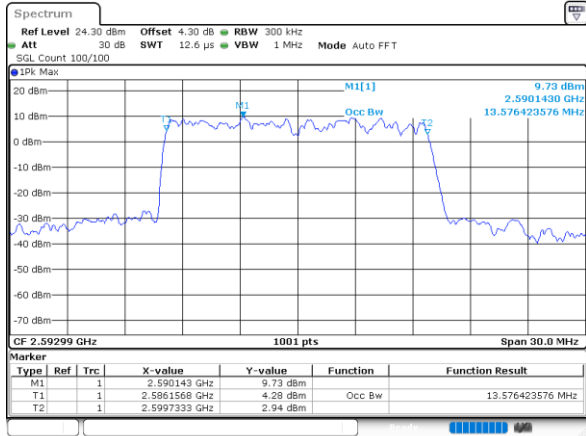
Date: 15.JAN.2021 20:19:20

64QAM

256QAM

Middle Channel

Middle Channel



Date: 15.JAN.2021 20:19:51

Date: 15.JAN.2021 20:20:28



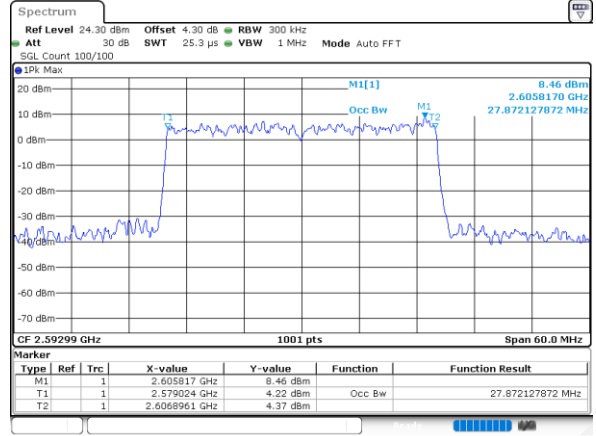
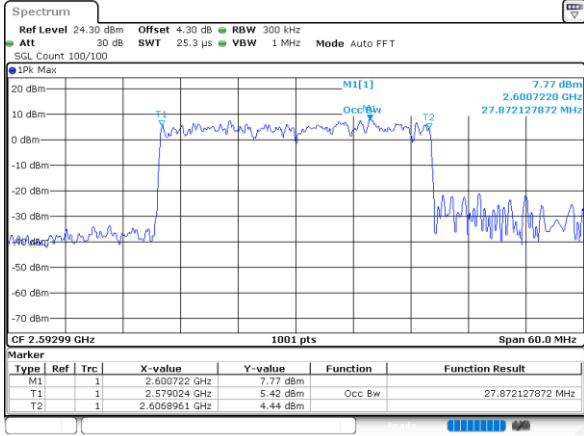
FR1 UL-MIMO n41 / 30MHz / CP-OFDM (M2)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 15_JAN_2021 22:44:39

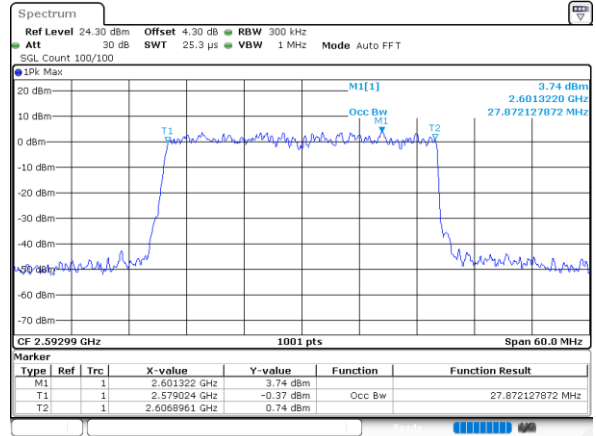
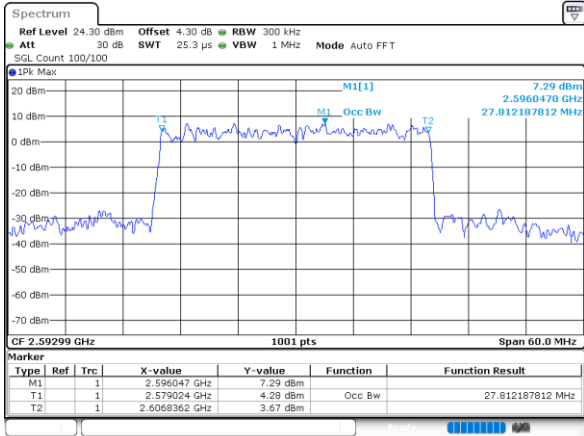
Date: 15_JAN_2021 22:46:03

64QAM

256QAM

Middle Channel

Middle Channel



Date: 15_JAN_2021 22:42:50

Date: 15_JAN_2021 22:41:58



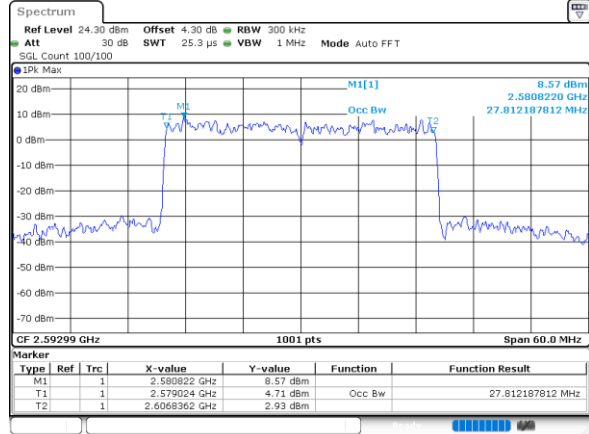
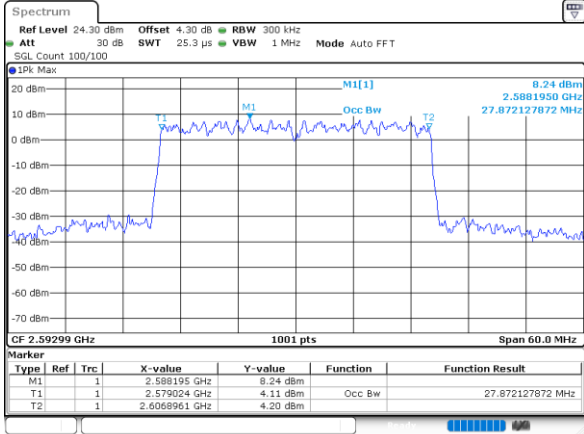
FR1 UL-MIMO n41 / 30MHz / CP-OFDM (M)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 15_JAN_2021 20:06:09

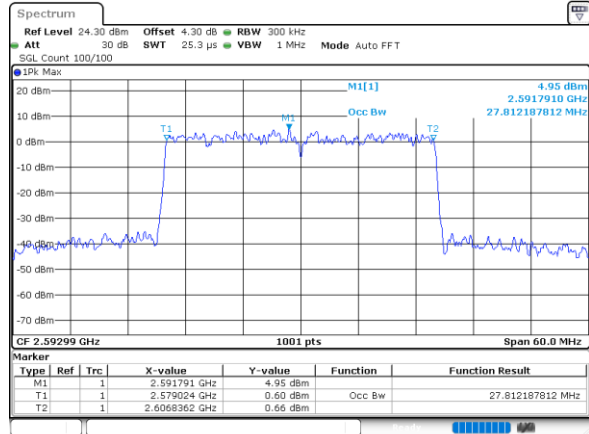
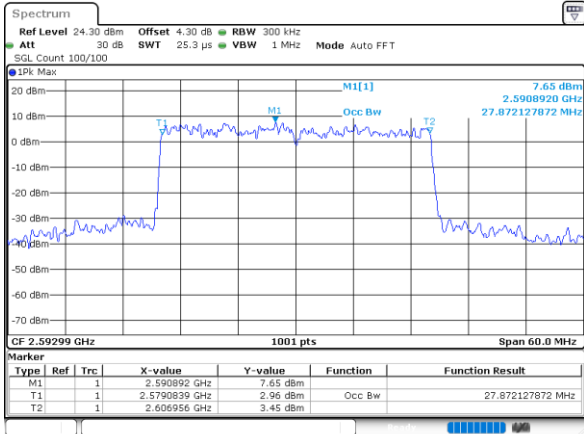
Date: 15_JAN_2021 20:06:49

64QAM

256QAM

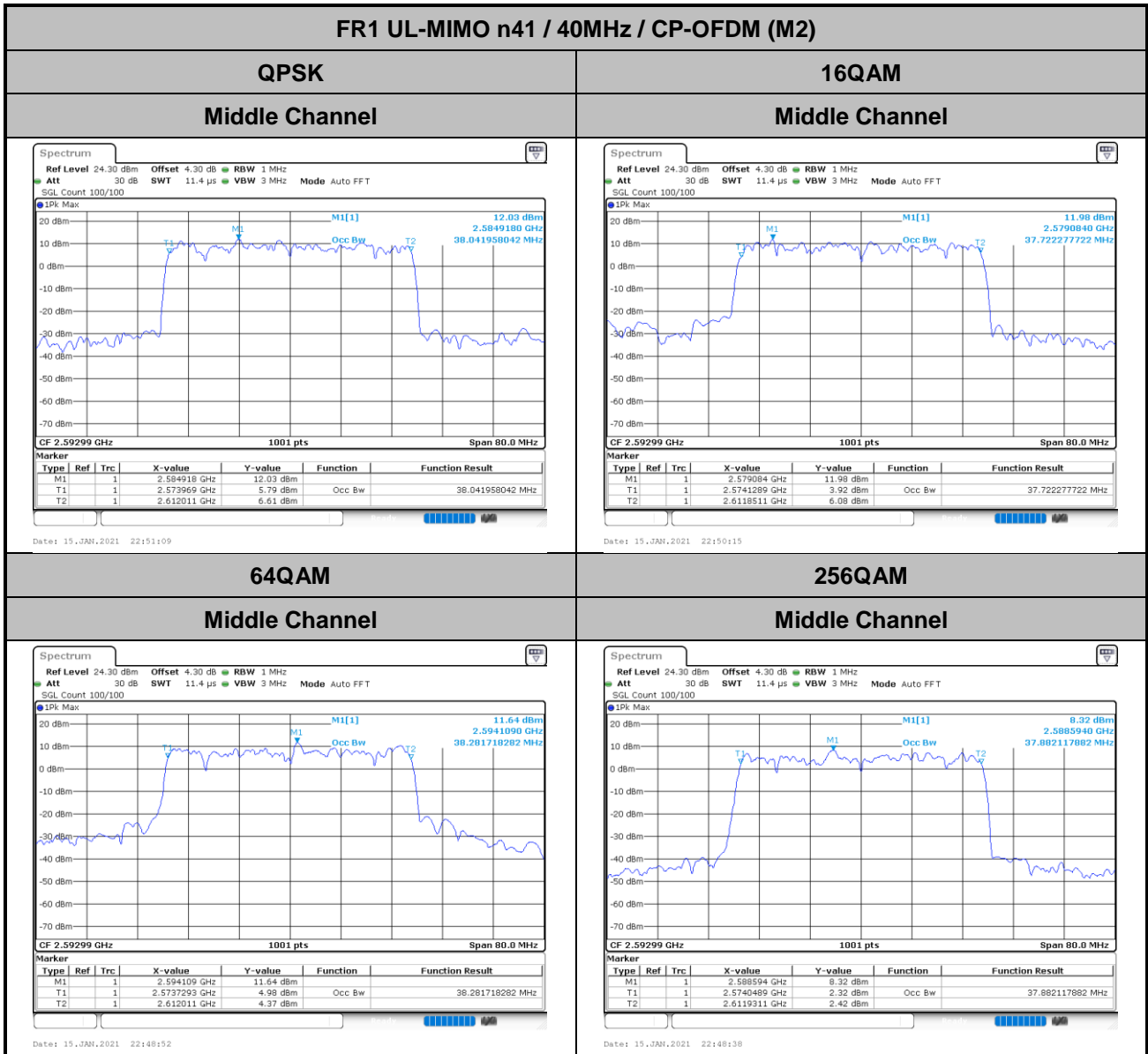
Middle Channel

Middle Channel



Date: 15_JAN_2021 20:07:36

Date: 15_JAN_2021 20:08:18





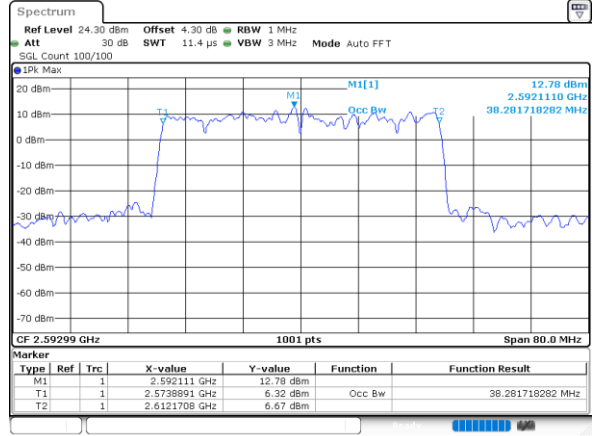
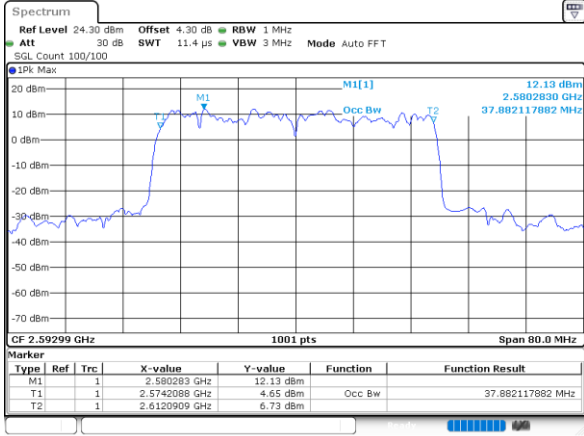
FR1 UL-MIMO n41 / 40MHz / CP-OFDM (M)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 15 JAN 2021 19:27:02

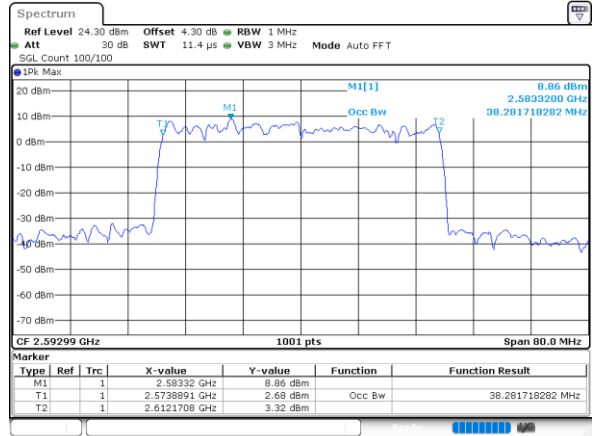
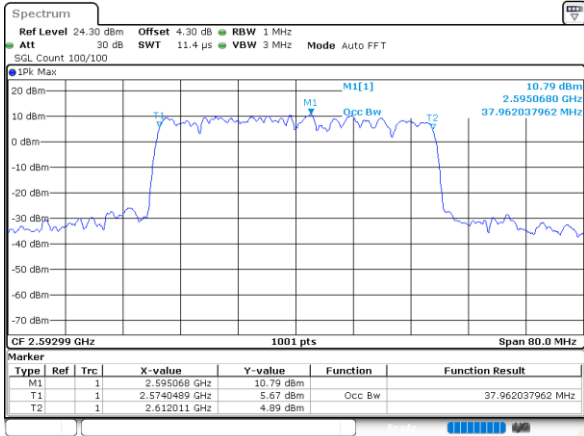
Date: 15 JAN 2021 19:26:26

64QAM

256QAM

Middle Channel

Middle Channel



Date: 15 JAN 2021 19:25:53

Date: 15 JAN 2021 19:25:07



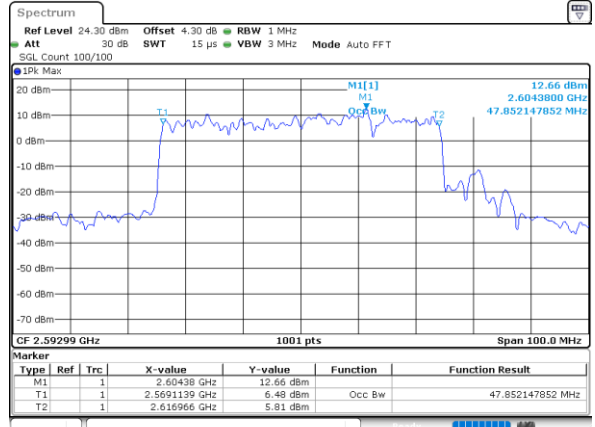
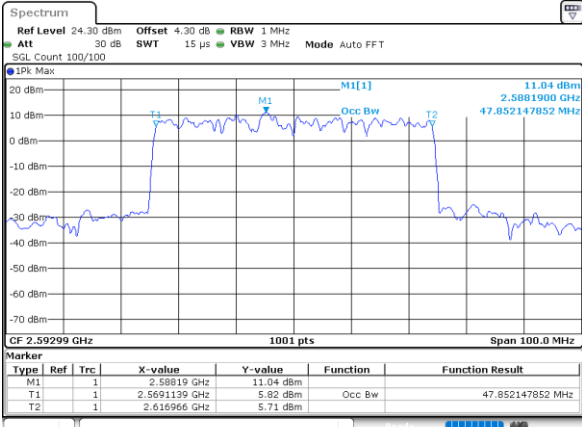
FR1 UL-MIMO n41 / 50MHz / CP-OFDM (M2)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 16_JAN_2021 00:17:15

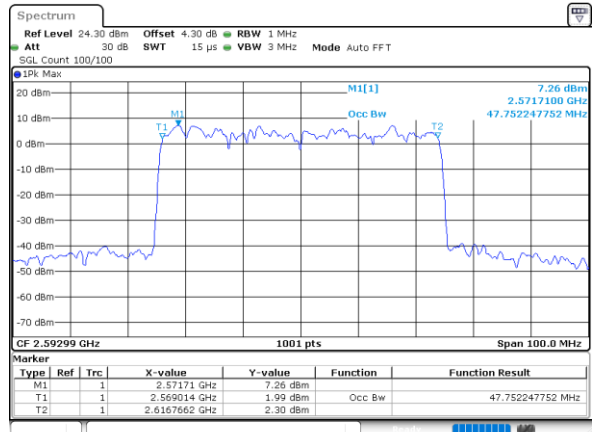
Date: 16_JAN_2021 00:17:46

64QAM

256QAM

Middle Channel

Middle Channel



Date: 16_JAN_2021 00:20:42

Date: 16_JAN_2021 00:18:09



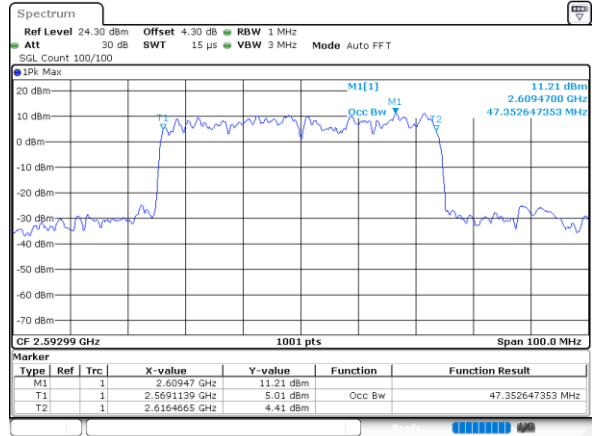
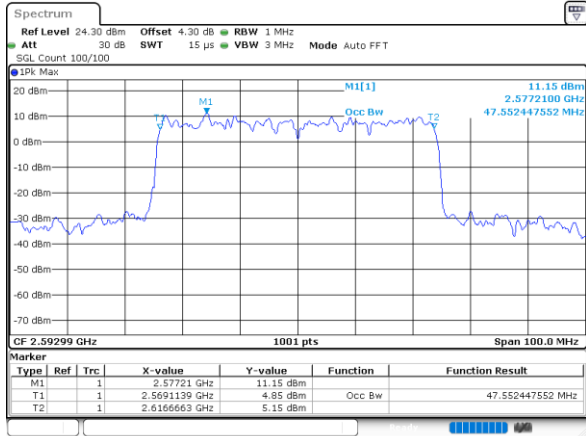
FR1 UL-MIMO n41 / 50MHz / CP-OFDM (M)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 15.JAN.2021 19:23:07

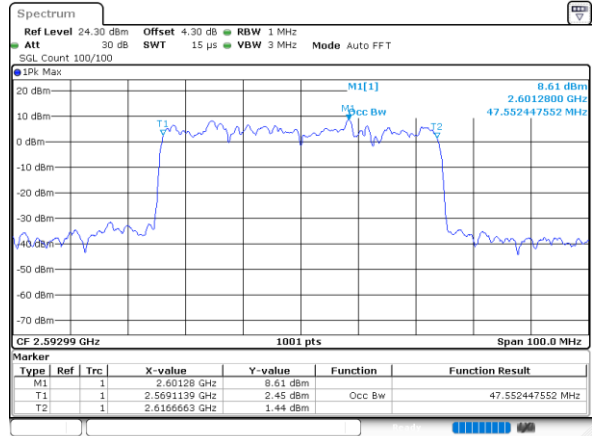
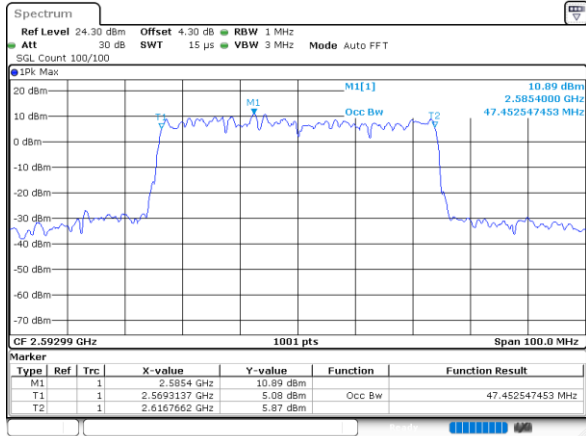
Date: 15.JAN.2021 19:23:28

64QAM

256QAM

Middle Channel

Middle Channel



Date: 15.JAN.2021 19:23:55

Date: 15.JAN.2021 19:24:14



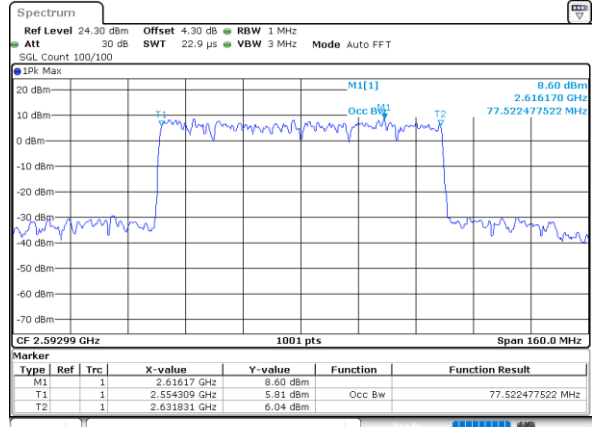
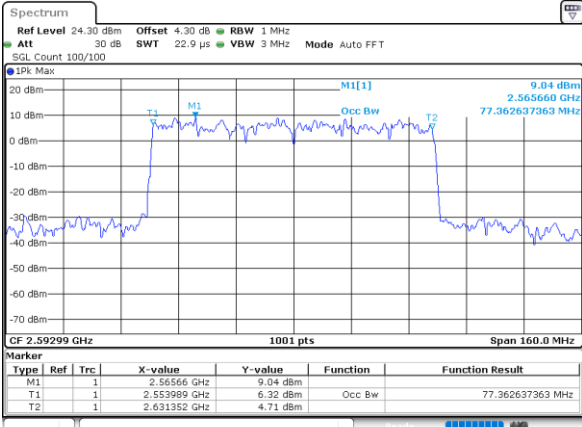
FR1 UL-MIMO n41 / 80MHz / CP-OFDM (M2)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 16_JAN_2021 00:20:42

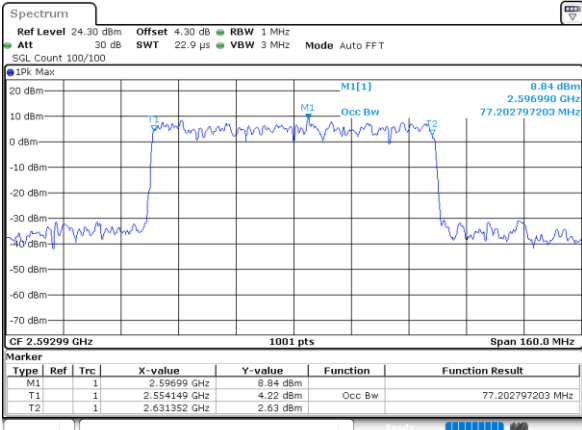
Date: 16_JAN_2021 00:20:10

64QAM

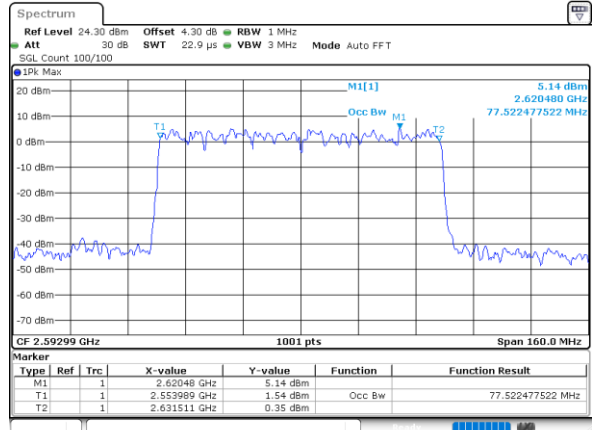
256QAM

Middle Channel

Middle Channel



Date: 16_JAN_2021 00:19:28



Date: 16_JAN_2021 00:19:09



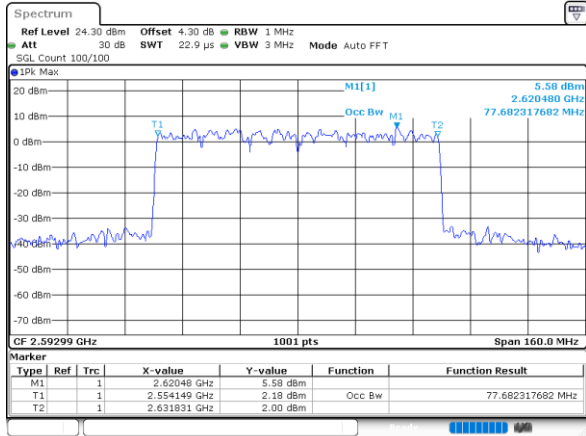
FR1 UL-MIMO n41 / 80MHz / CP-OFDM (M)

QPSK

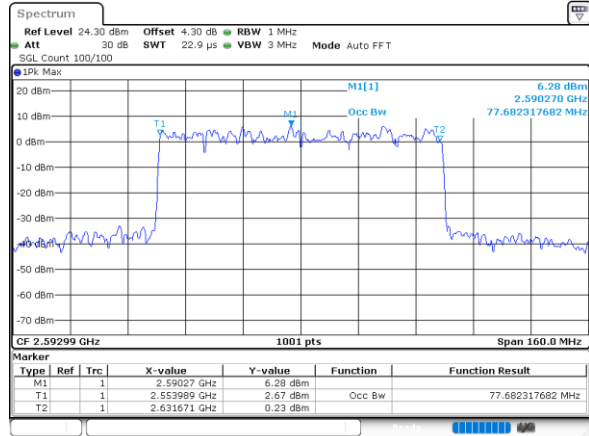
16QAM

Middle Channel

Middle Channel



Date: 15_JAN_2021 07:30:38



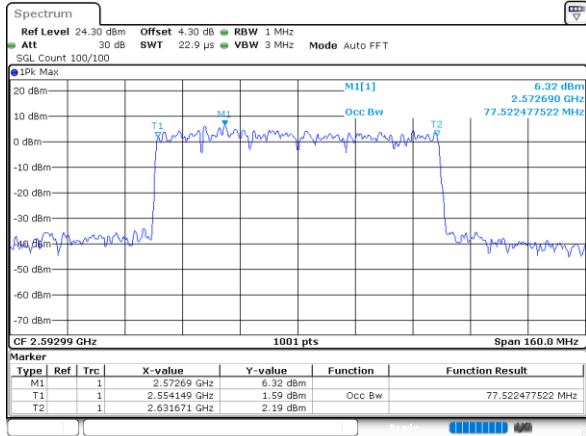
Date: 15_JAN_2021 07:30:59

64QAM

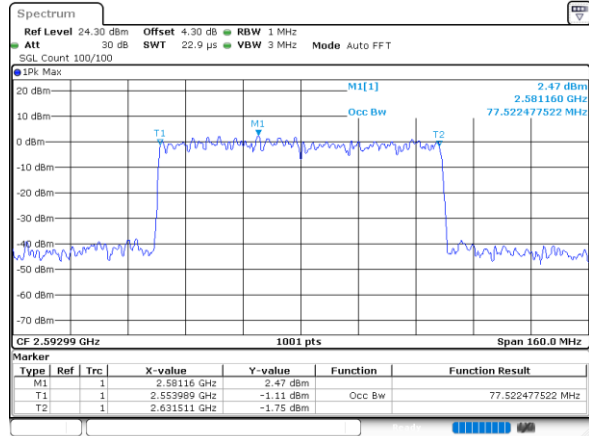
256QAM

Middle Channel

Middle Channel



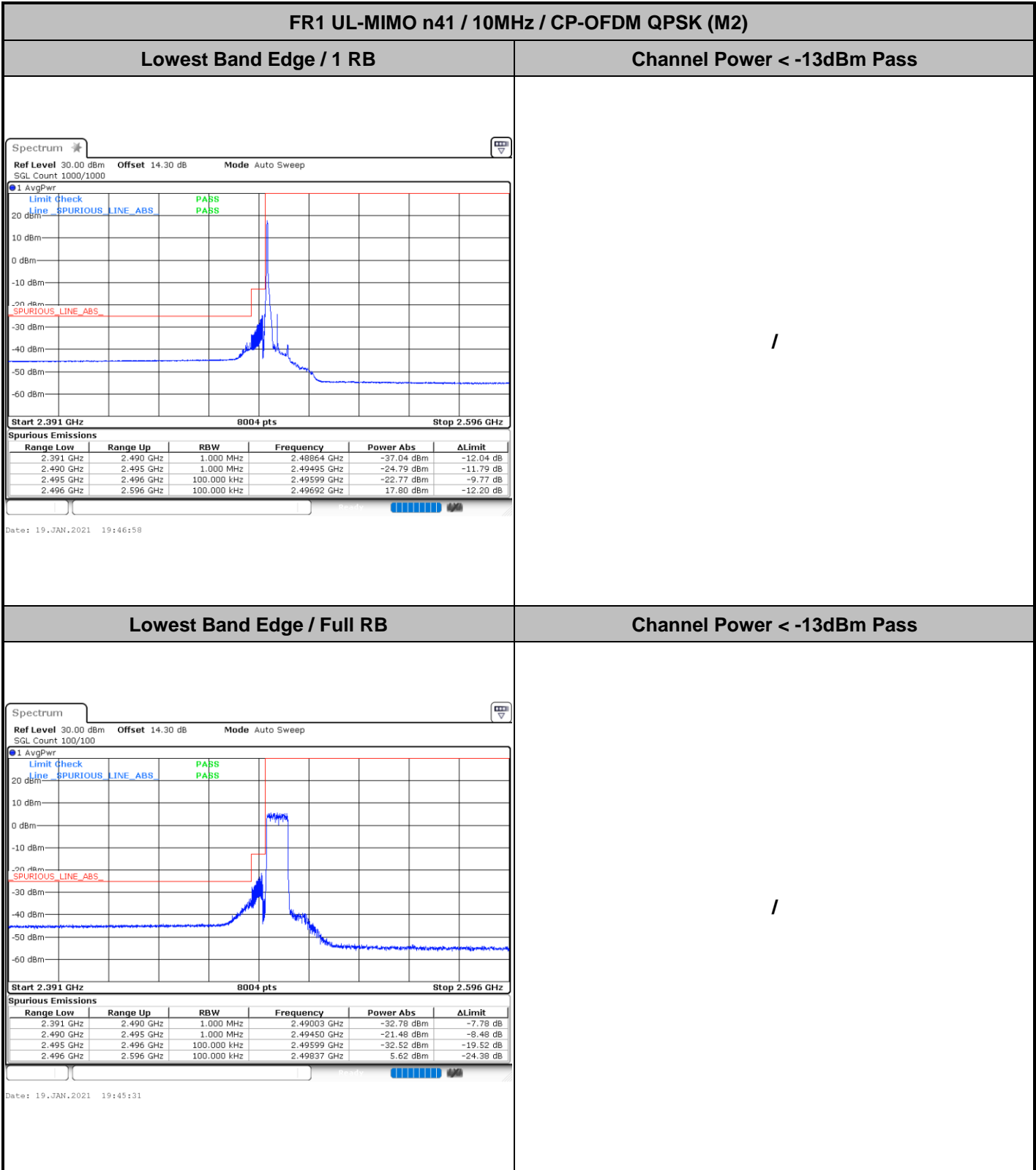
Date: 15_JAN_2021 07:31:09



Date: 15_JAN_2021 07:31:27



Conducted Band Edge

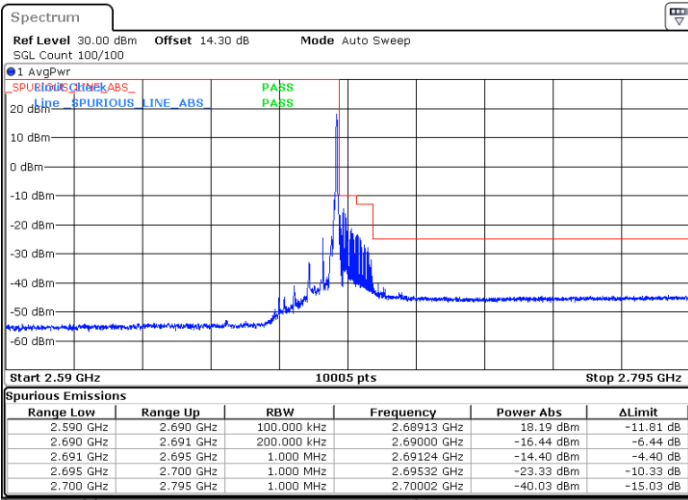




FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M2)

Highest Band Edge / 1 RB

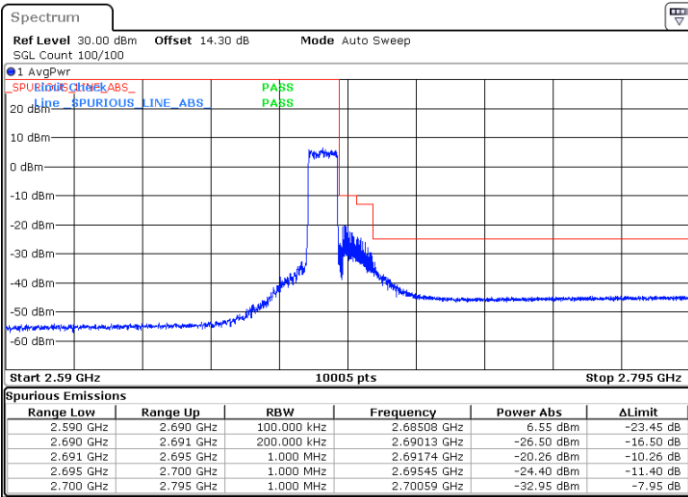
Channel Power < -10dBm Pass



Date: 19. JAN. 2021 19:36:57

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



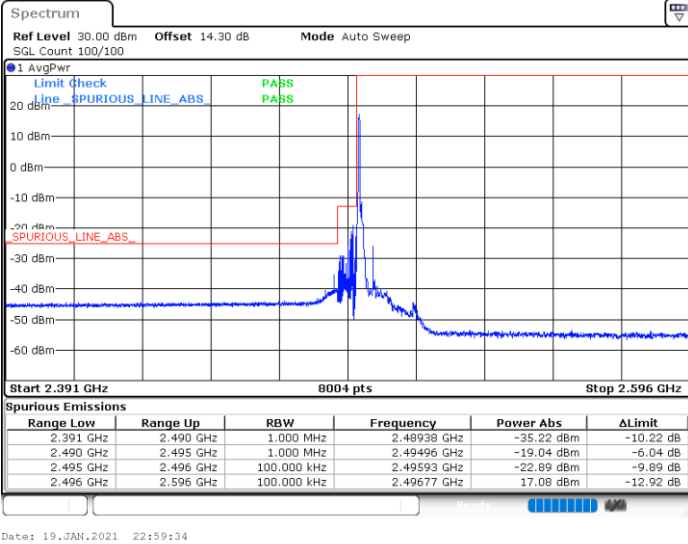
Date: 19. JAN. 2021 19:37:24



FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M)

Lowest Band Edge / 1 RB

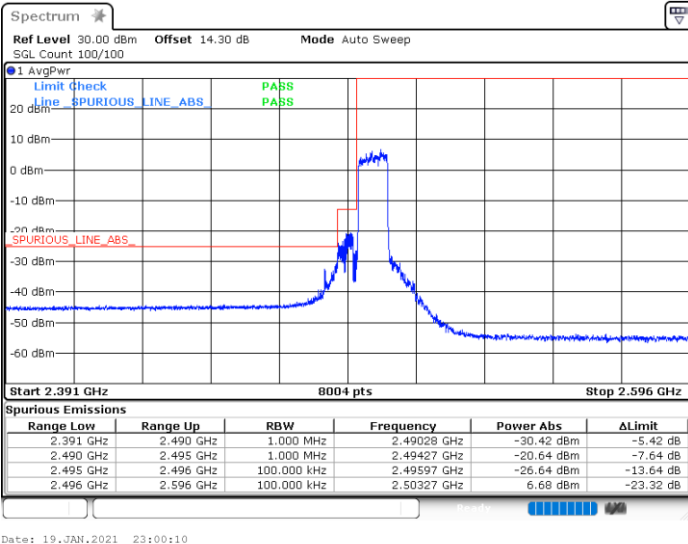
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



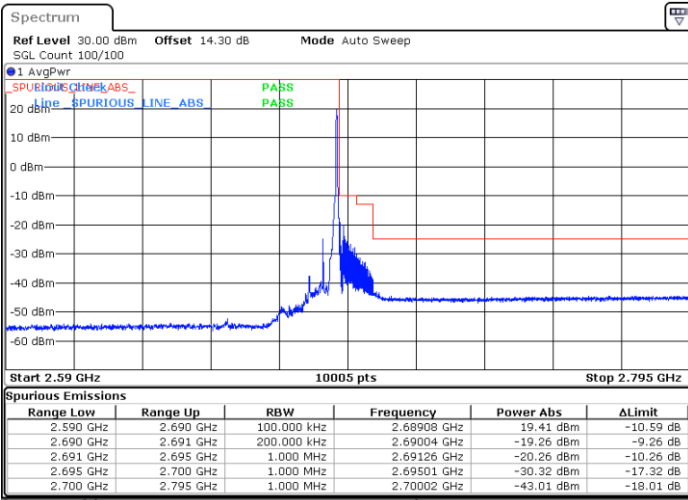
/



FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M)

Highest Band Edge / 1 RB

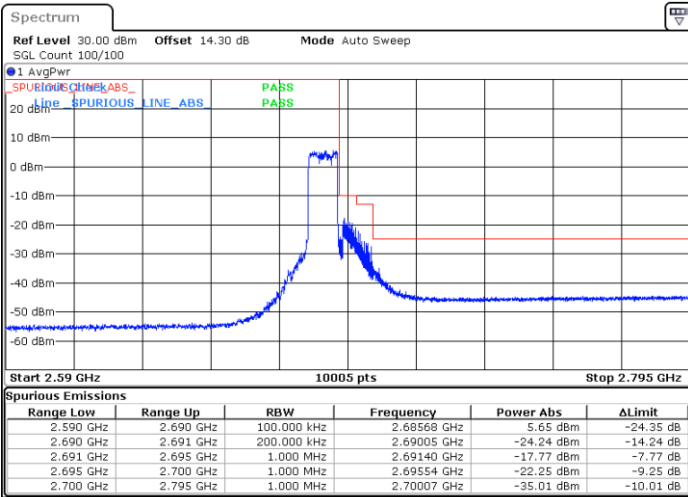
Channel Power < -13dBm Pass



Date: 19. JAN. 2021 23:02:38

Highest Band Edge / Full RB

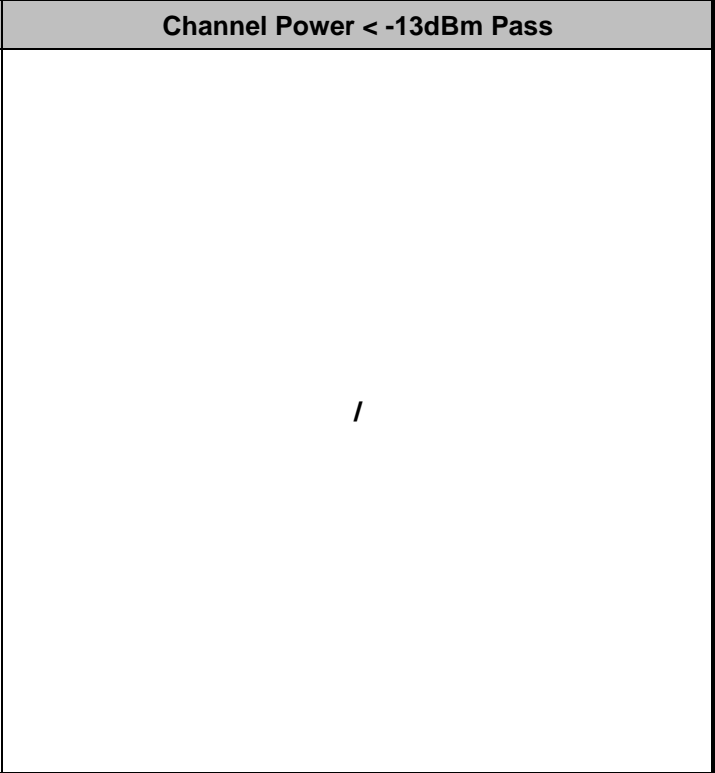
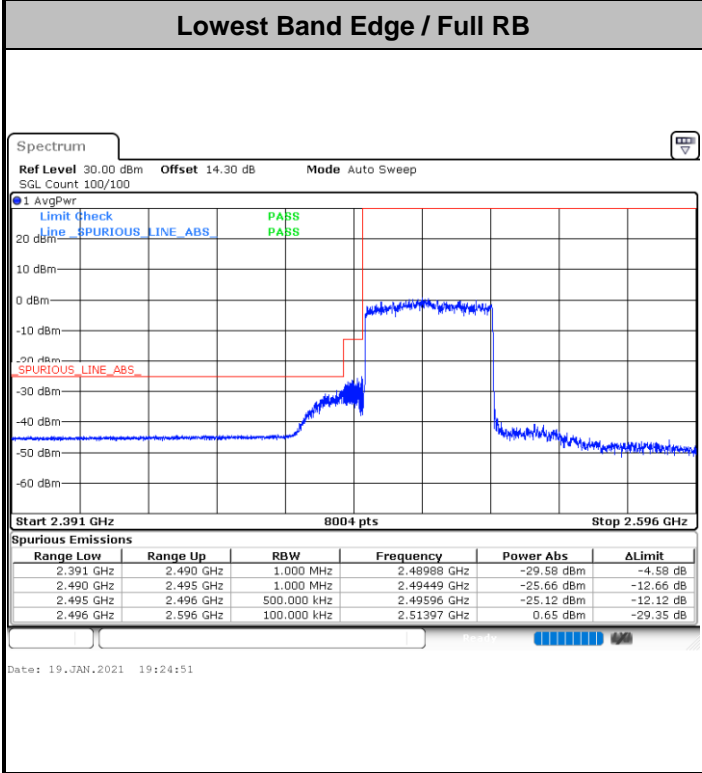
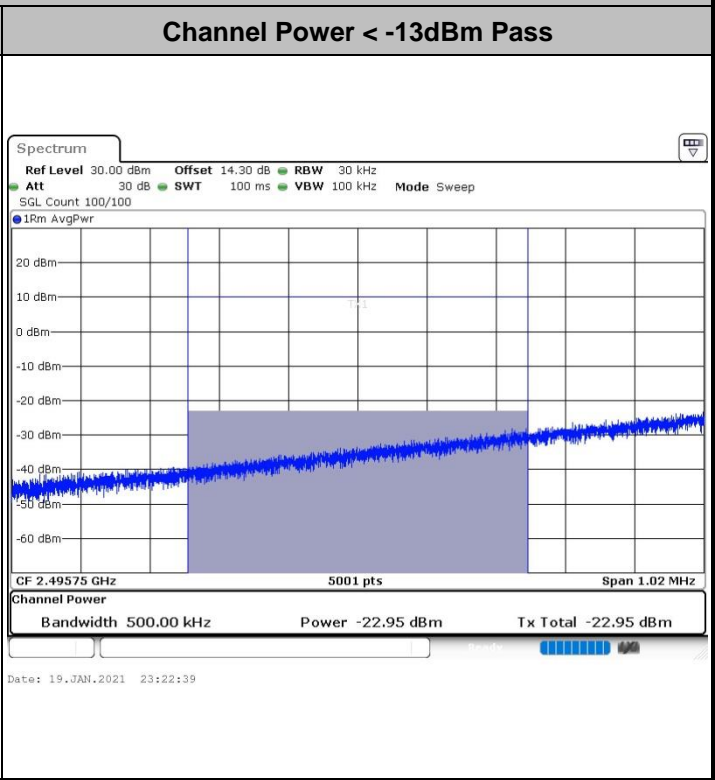
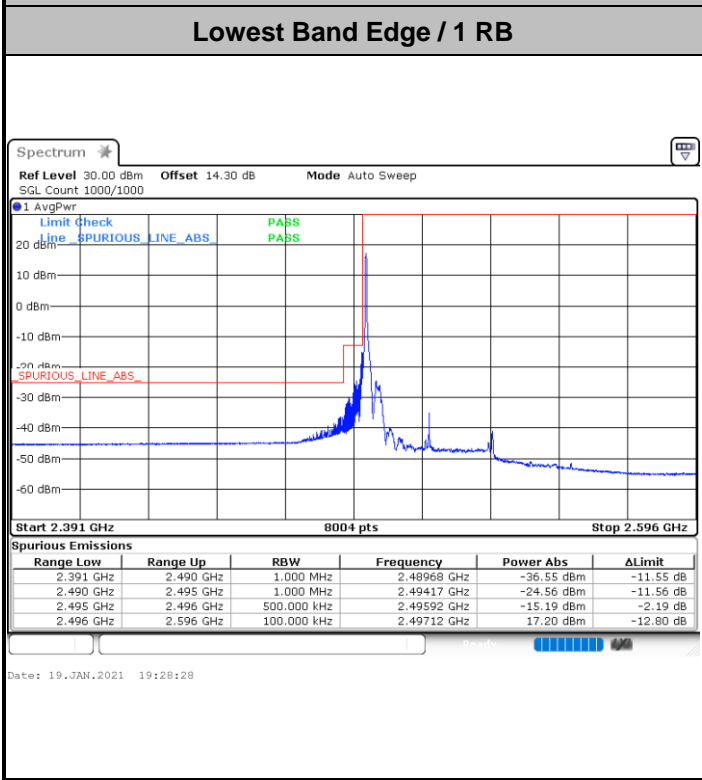
Channel Power < -13dBm Pass



Date: 19. JAN. 2021 23:06:42



FR1 UL-MIMO n41 / 40MHz / CP-OFDM QPSK (M2)

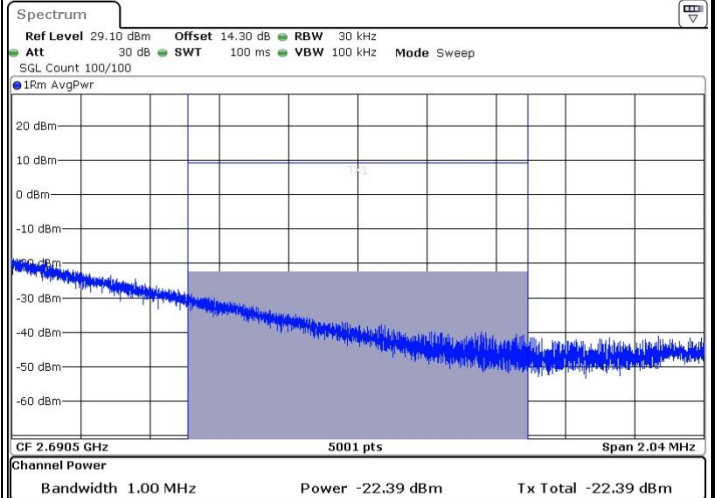
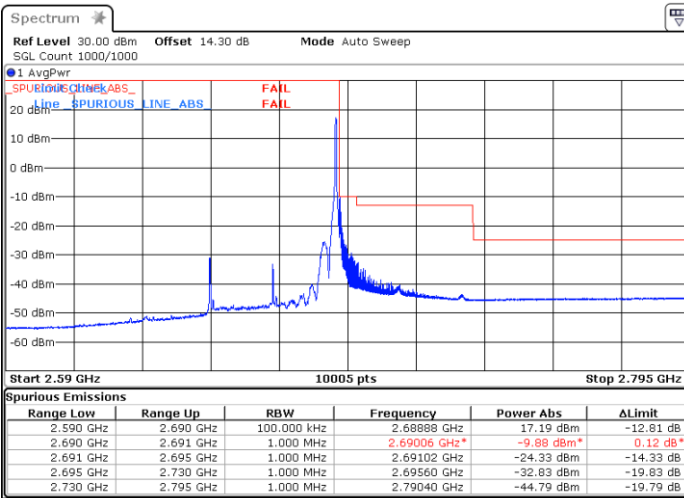




FR1 UL-MIMO n41 / 40MHz / CP-OFDM QPSK (M2)

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass

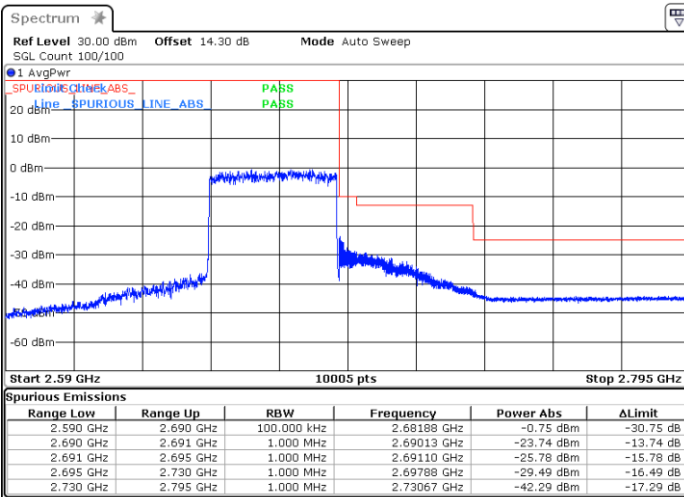


Date: 26.FEB.2021 14:04:31

Date: 26.FEB.2021 14:03:38

Highest Band Edge / Full RB

Channel Power < -10dBm Pass

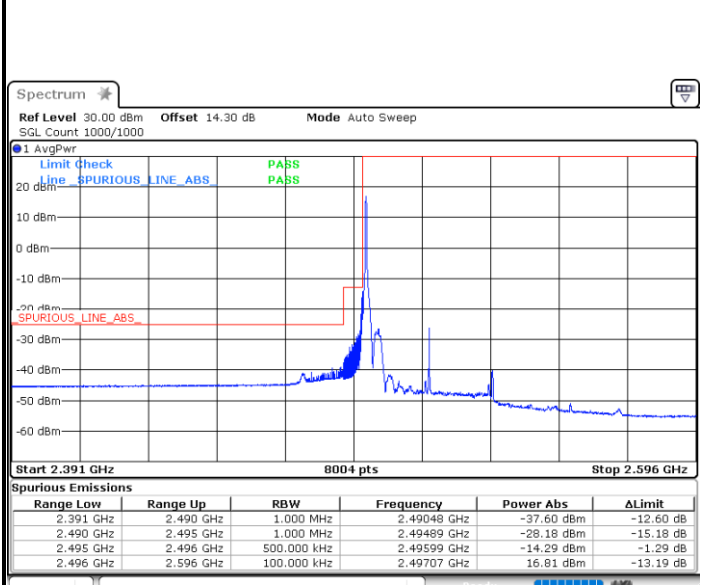


Date: 26.FEB.2021 14:00:36



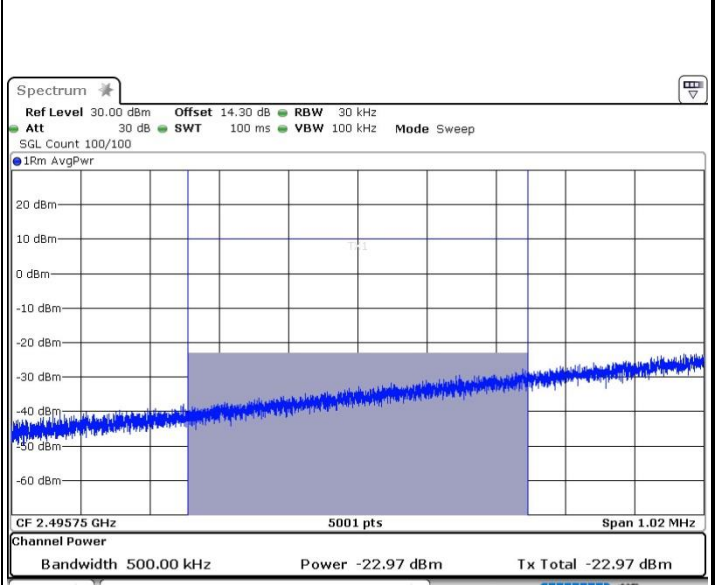
FR1 UL-MIMO n41 / 40MHz / CP-OFDM QPSK (M)

Lowest Band Edge / 1 RB



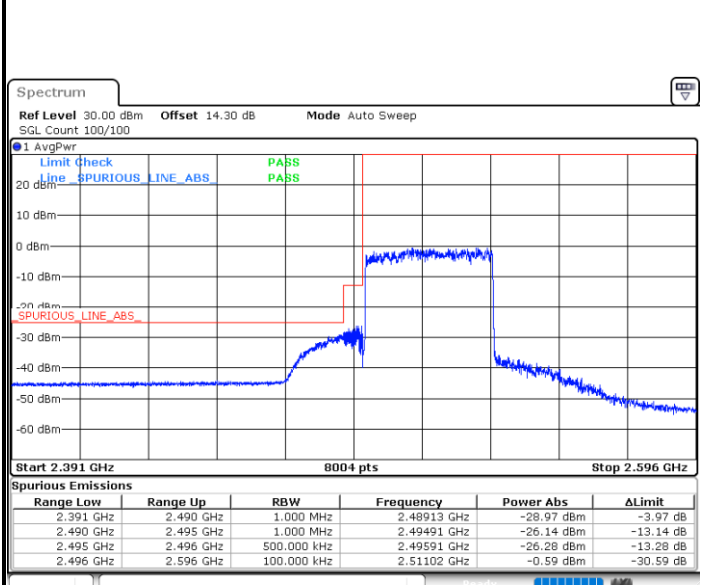
Date: 19.JAN.2021 23:16:50

Channel Power < -13dBm Pass



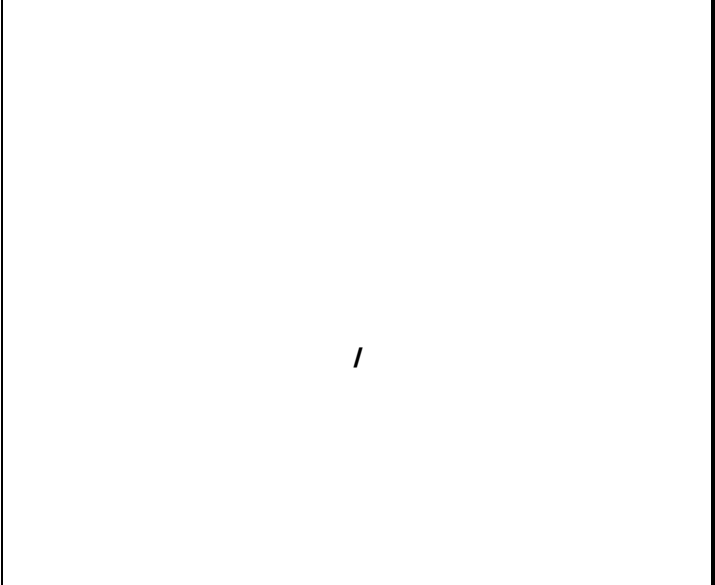
Date: 19.JAN.2021 23:22:17

Lowest Band Edge / Full RB



Date: 19.JAN.2021 23:14:27

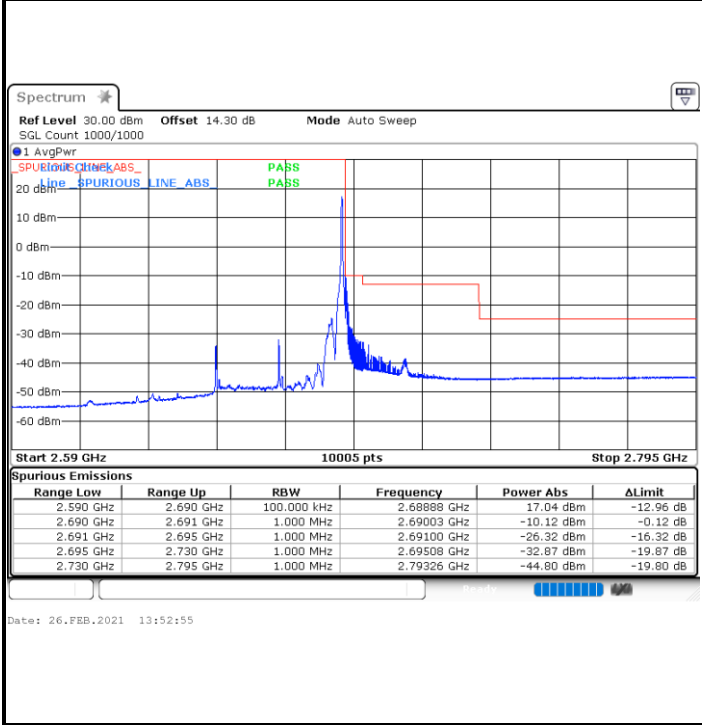
Channel Power < -13dBm Pass



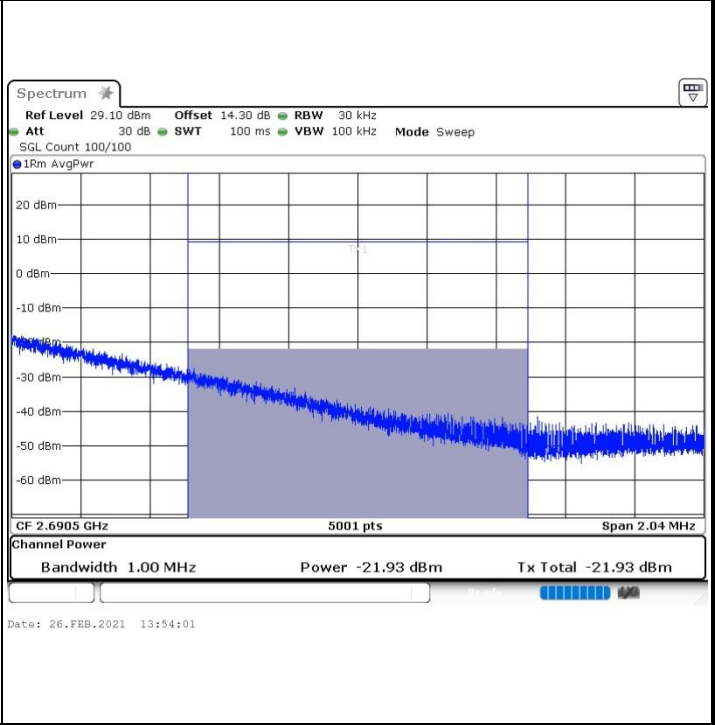


FR1 UL-MIMO n41 / 40MHz / CP-OFDM QPSK (M)

Highest Band Edge / 1 RB



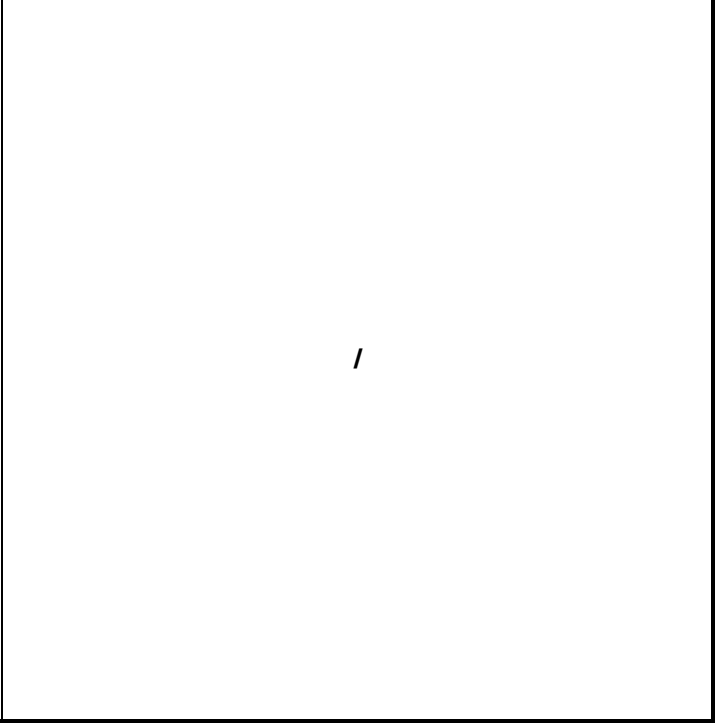
Channel Power < -10dBm Pass



Highest Band Edge / Full RB

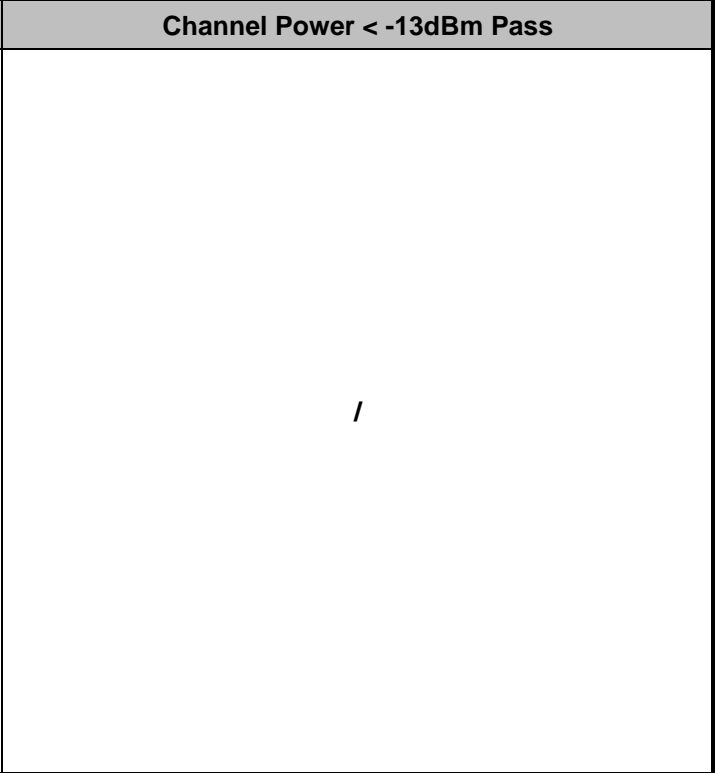
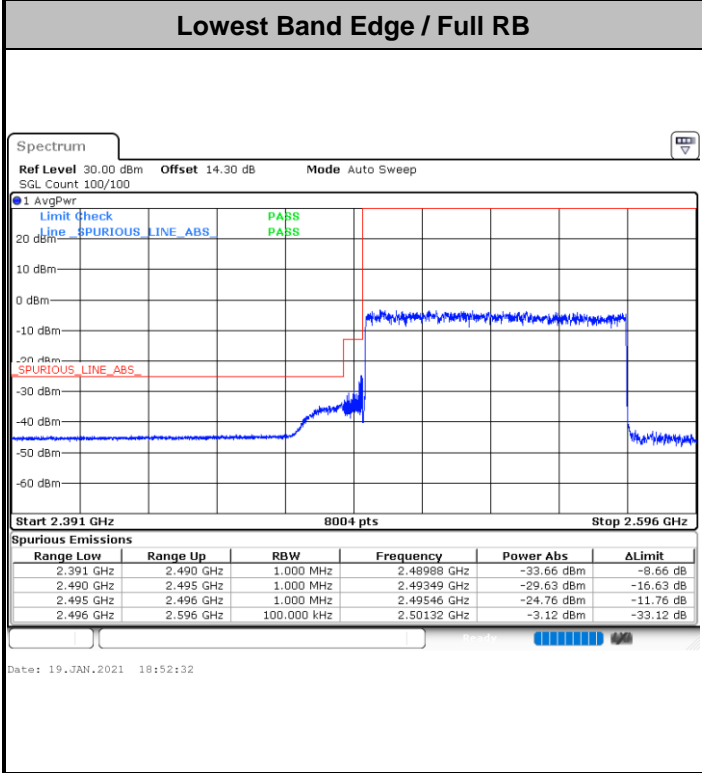
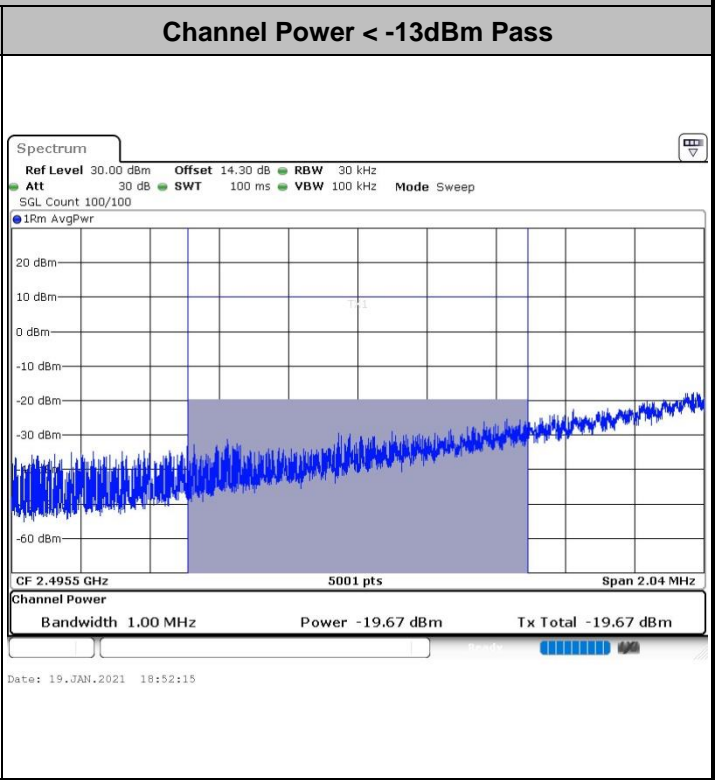
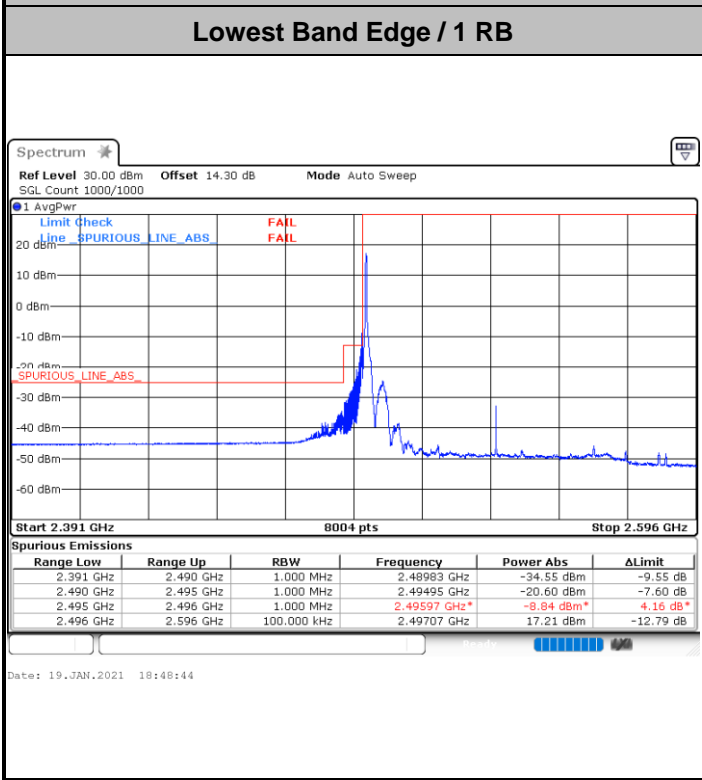


Channel Power < -10dBm Pass





FR1 UL-MIMO n41 / 80MHz / CP-OFDM QPSK (M2)

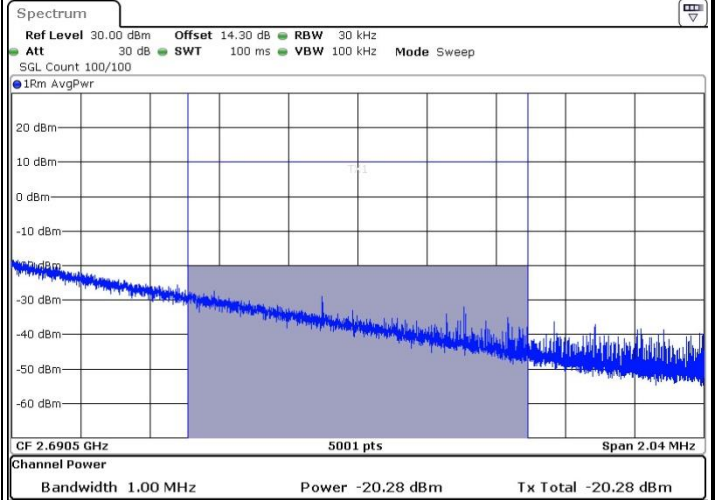
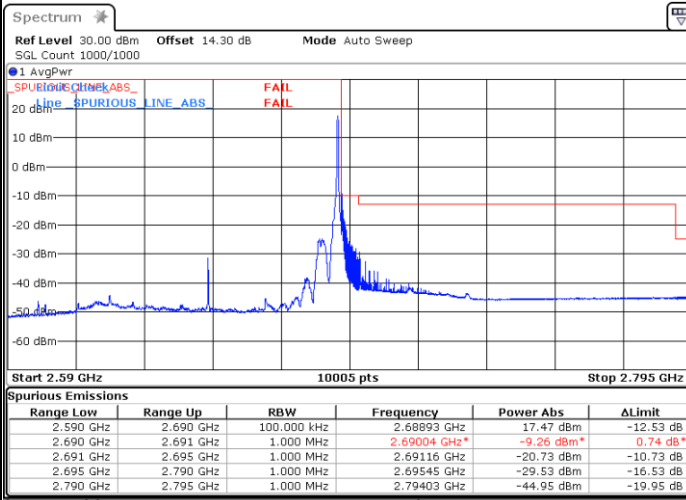




FR1 UL-MIMO n41 / 80MHz / CP-OFDM QPSK (M2)

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass

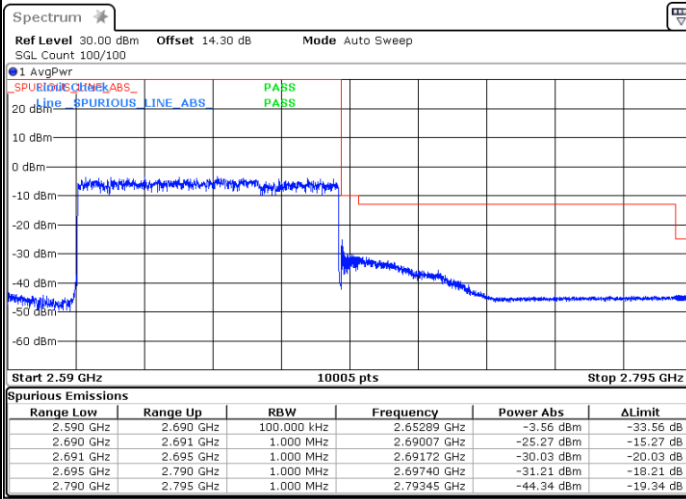


Date: 19.JAN.2021 19:16:50

Date: 19.JAN.2021 19:12:36

Highest Band Edge / Full RB

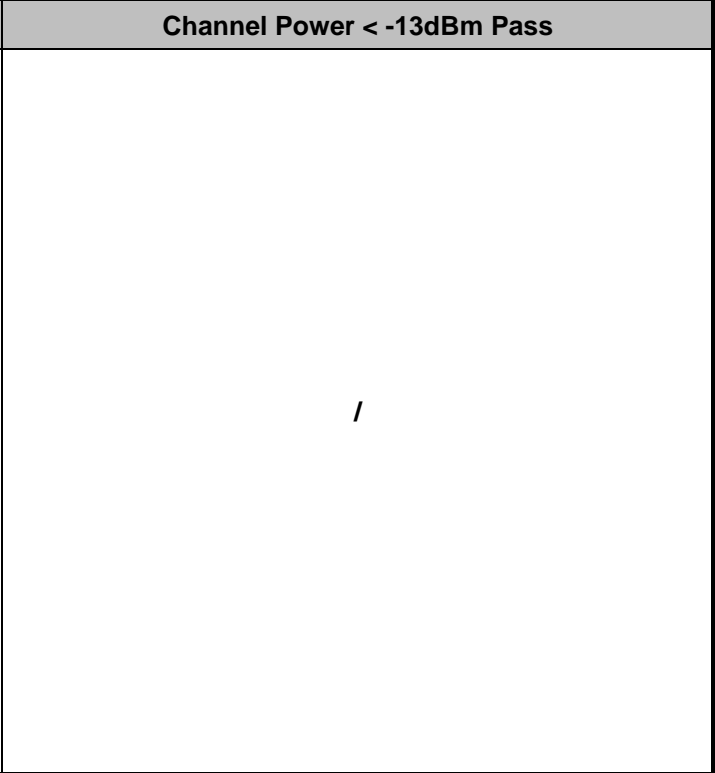
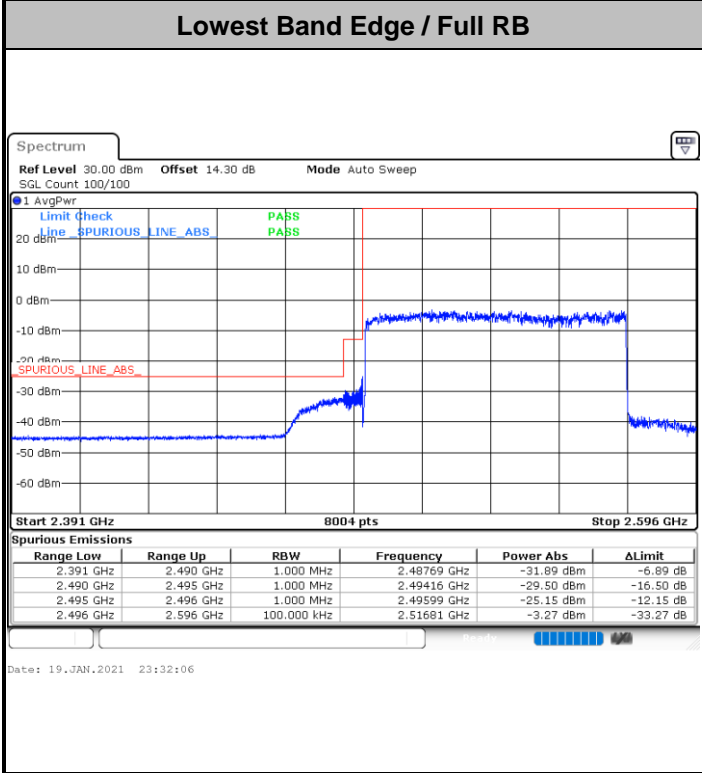
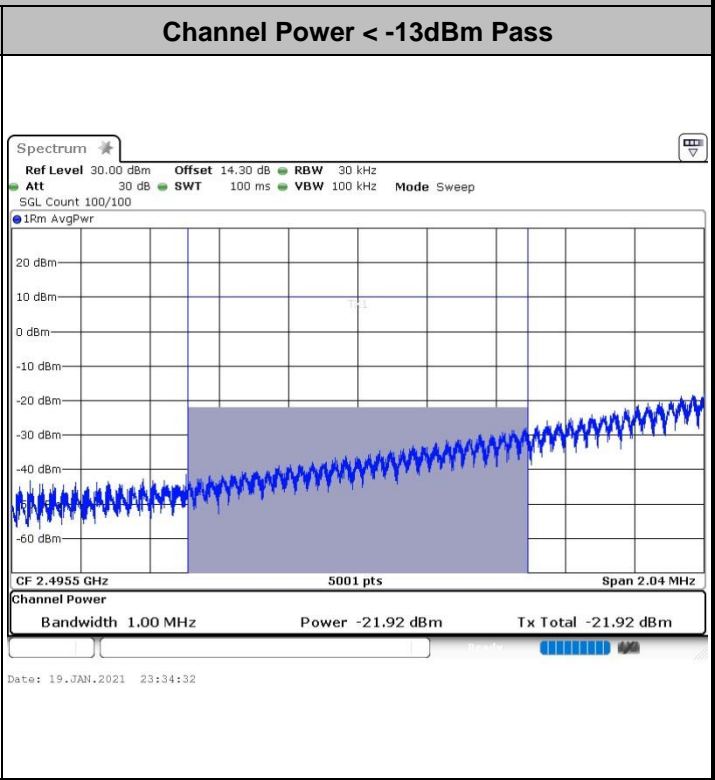
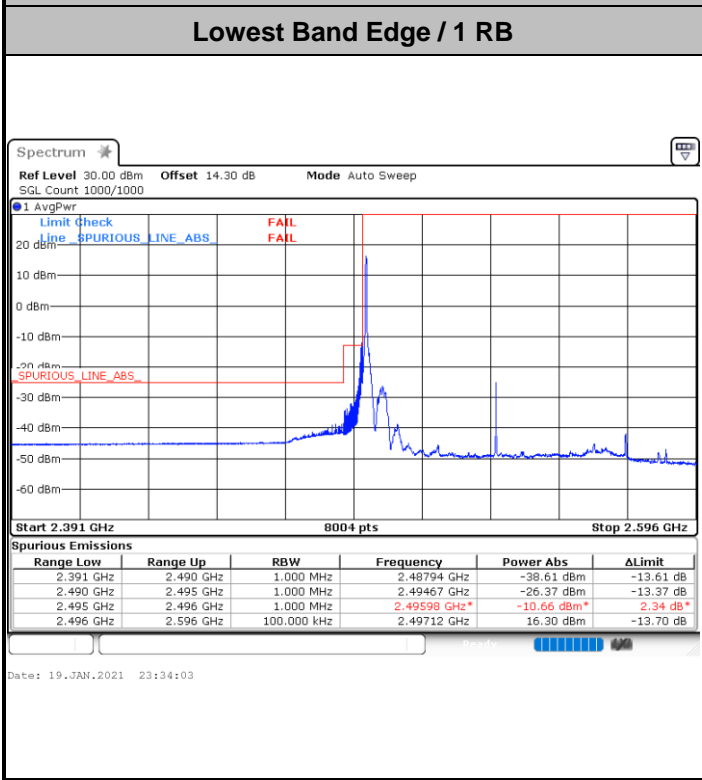
Channel Power < -10dBm Pass



Date: 19.JAN.2021 19:19:03

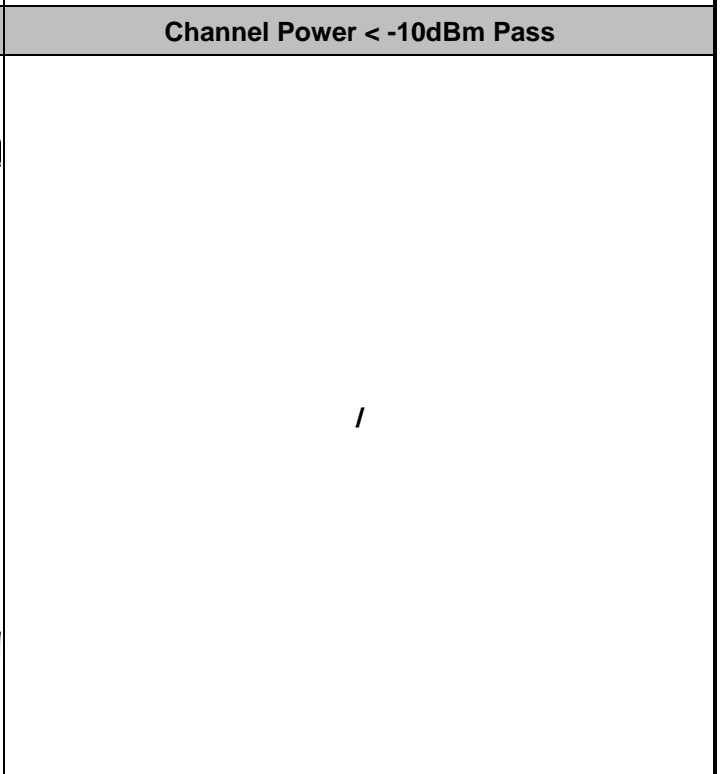
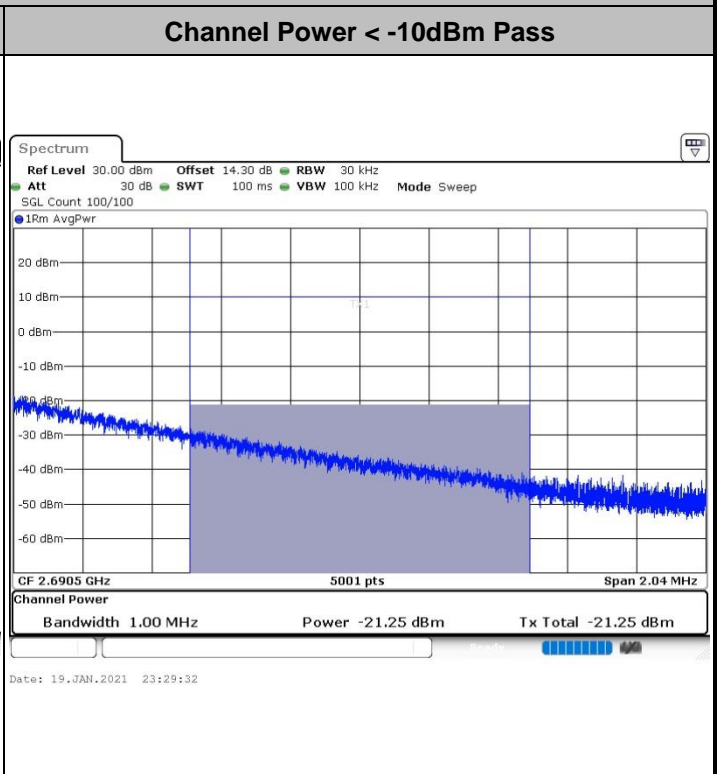
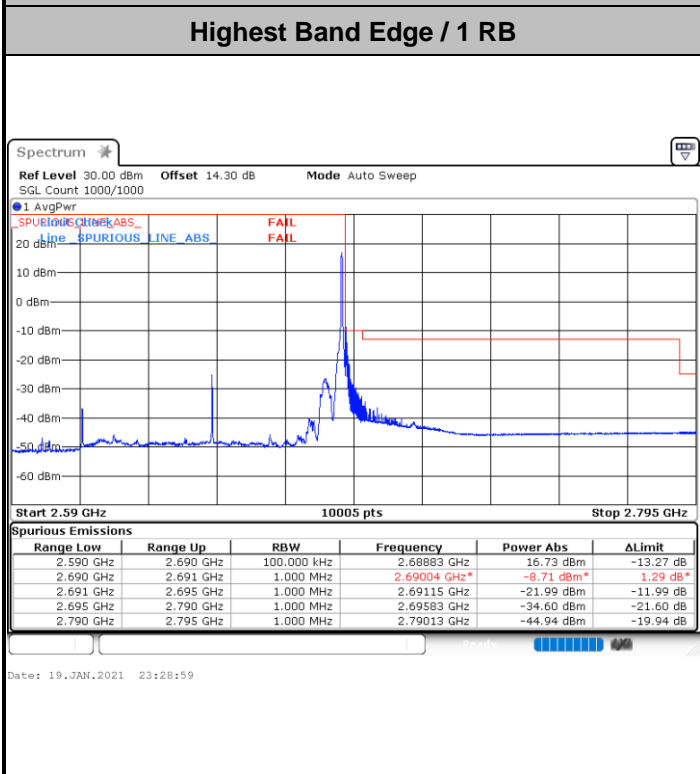


FR1 UL-MIMO n41 / 80MHz / CP-OFDM QPSK (M)



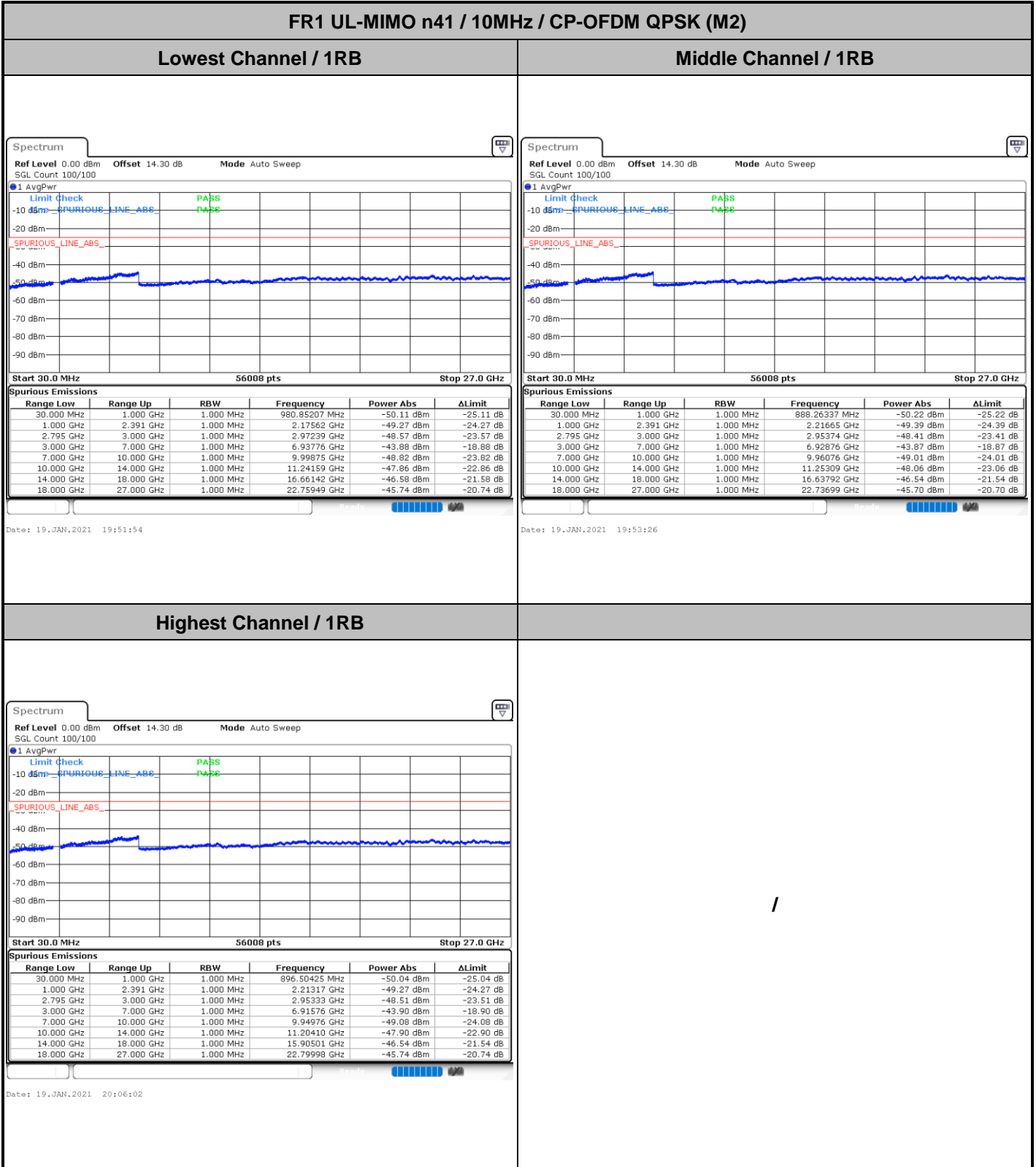


FR1 UL-MIMO n41 / 80MHz / CP-OFDM QPSK (M)





Conducted Spurious Emission

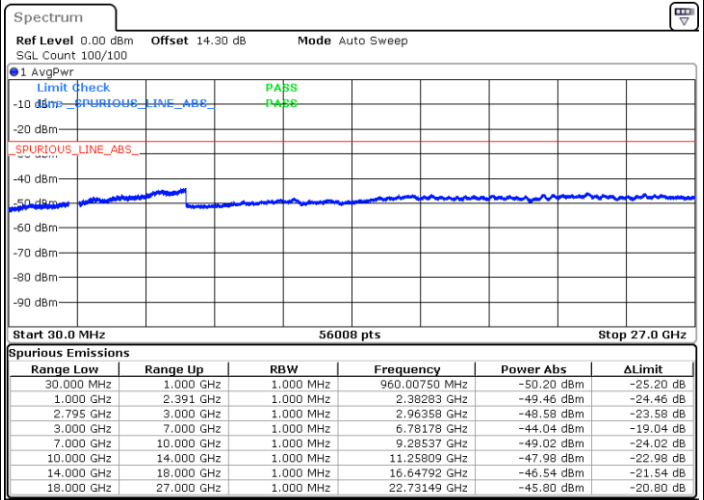
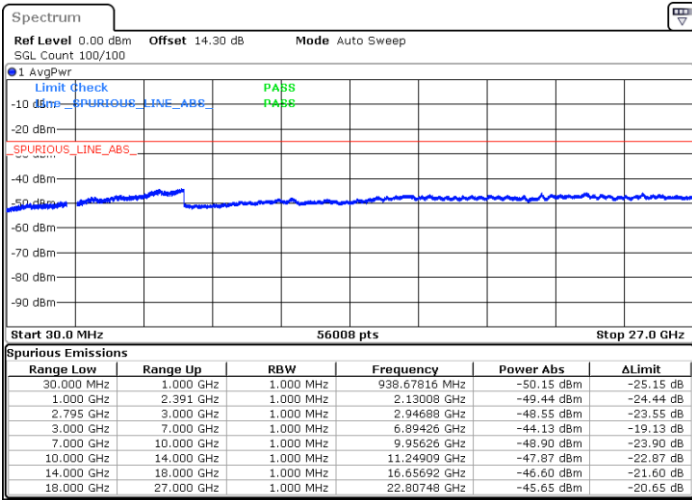




FR1 UL-MIMO n41 / 10MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

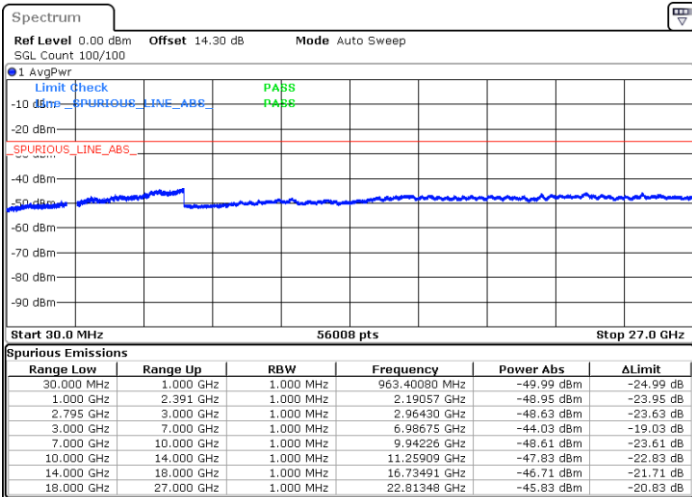
Middle Channel / 1RB



Date: 19. JAN. 2021 22:26:51

Date: 19. JAN. 2021 22:50:14

Highest Channel / 1RB



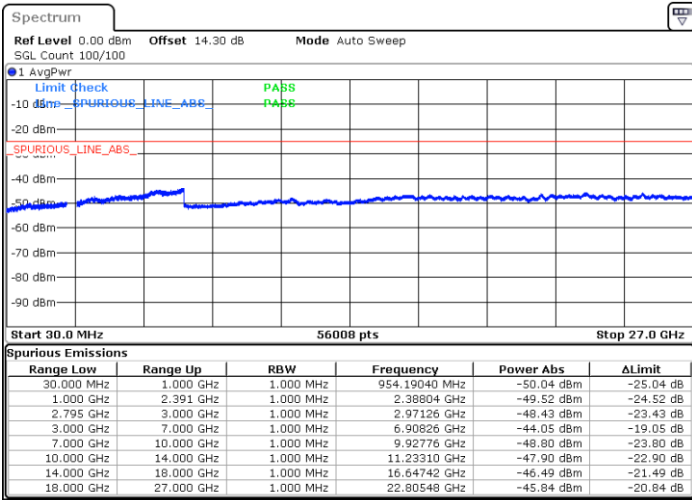
Date: 19. JAN. 2021 22:52:12



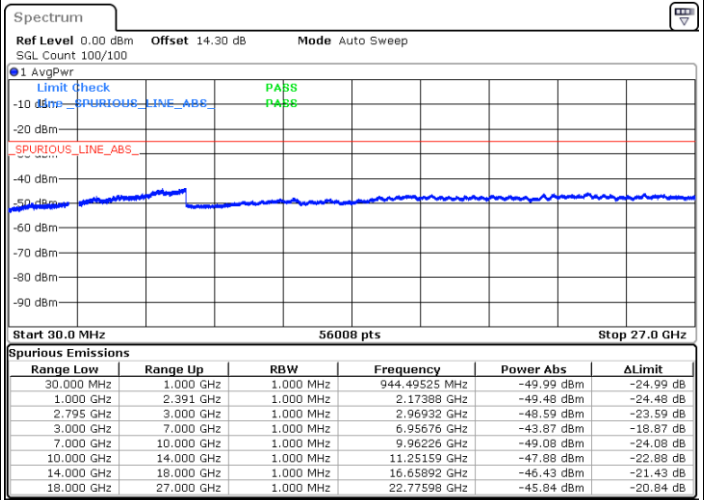
FR1 UL-MIMO n41 / 40MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

Middle Channel / 1RB

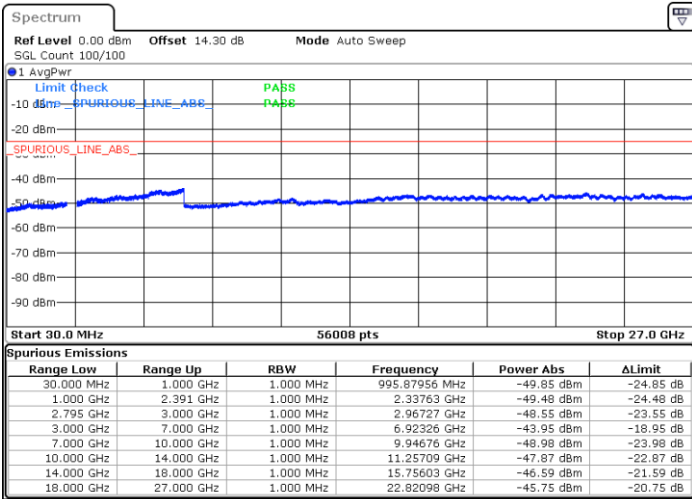


Date: 19. JAN. 2021 20:12:07



Date: 19. JAN. 2021 20:21:10

Highest Channel / 1RB



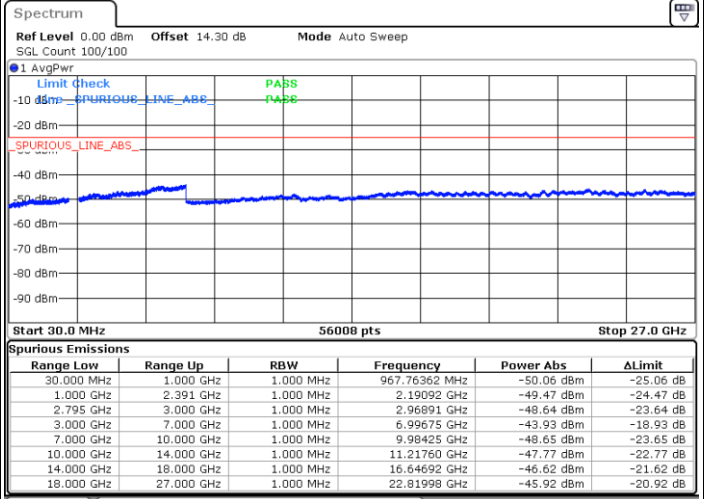
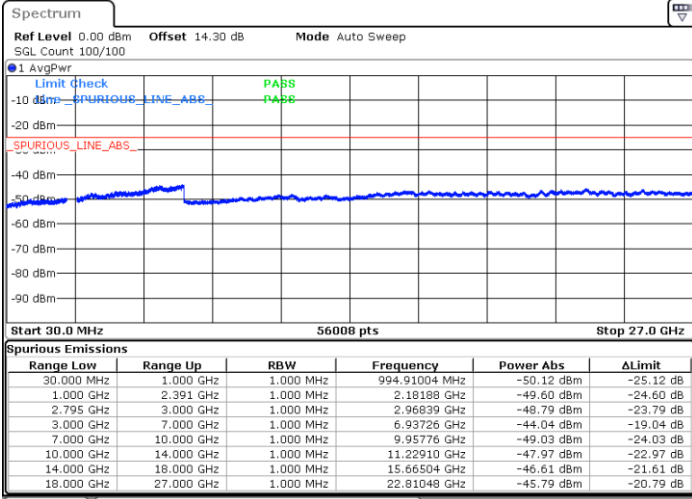
Date: 19. JAN. 2021 20:22:49



FR1 UL-MIMO n41 / 40MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

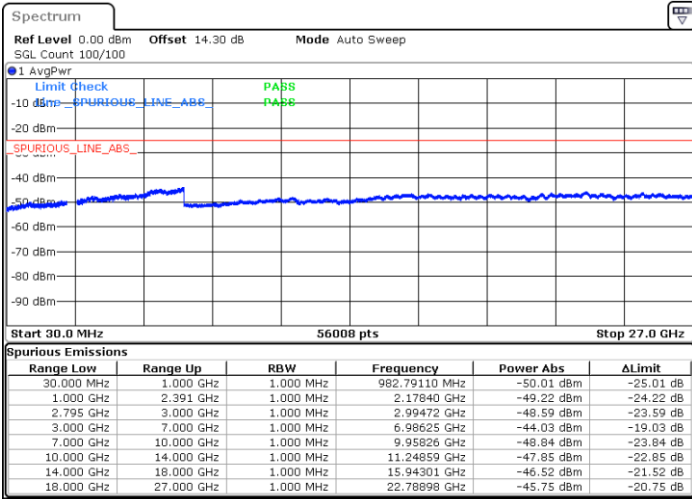
Middle Channel / 1RB



Date: 19.JAN.2021 22:14:54

Date: 19.JAN.2021 22:16:46

Highest Channel / 1RB



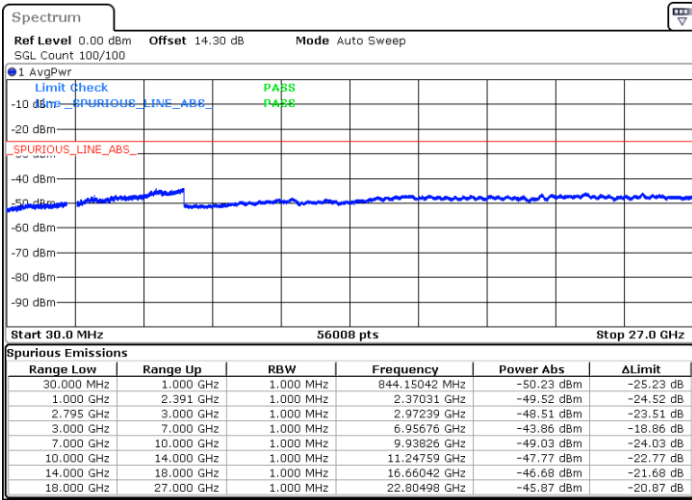
Date: 19.JAN.2021 22:25:04



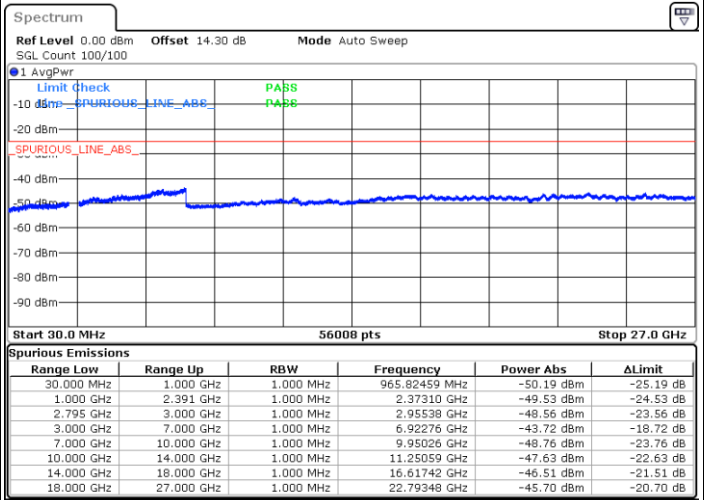
FR1 UL-MIMO n41 / 80MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

Middle Channel / 1RB

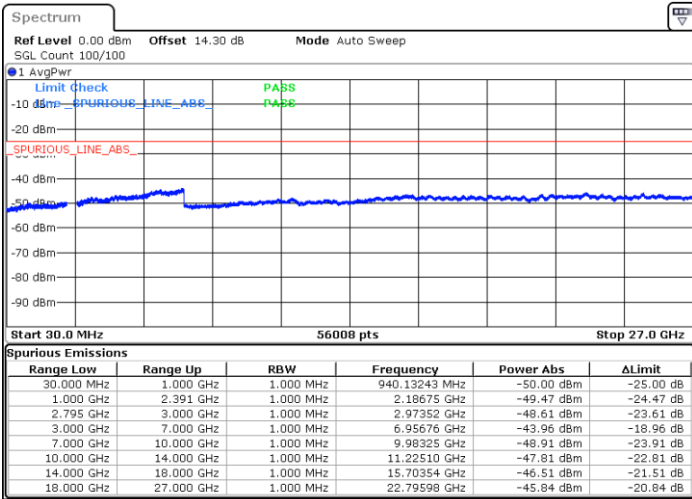


Date: 19. JAN. 2021 20:29:46



Date: 19. JAN. 2021 20:30:58

Highest Channel / 1RB

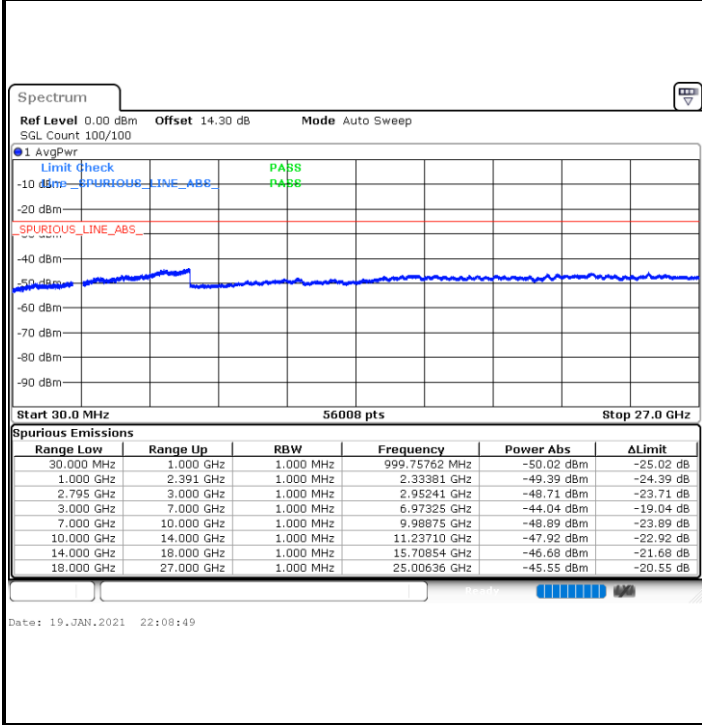


Date: 19. JAN. 2021 20:57:42

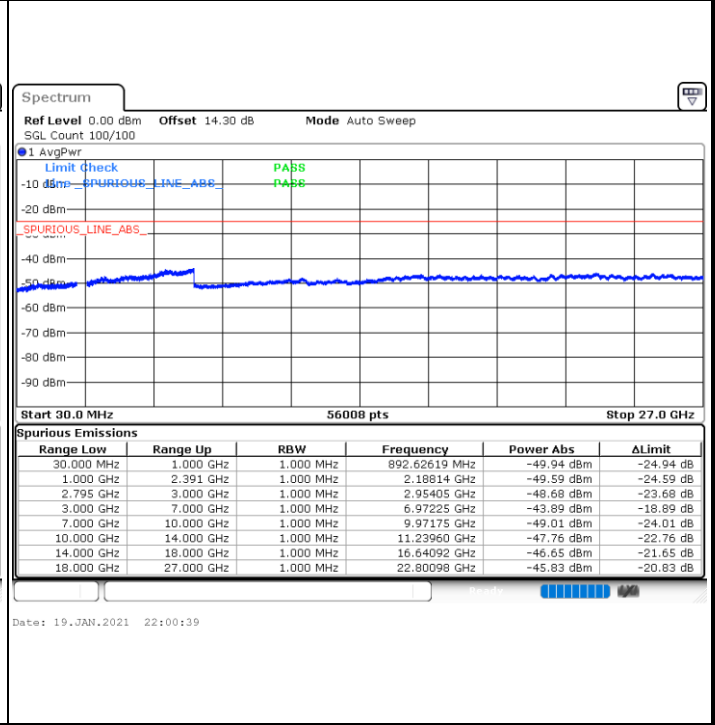


FR1 UL-MIMO n41 / 80MHz / CP-OFDM QPSK (M)

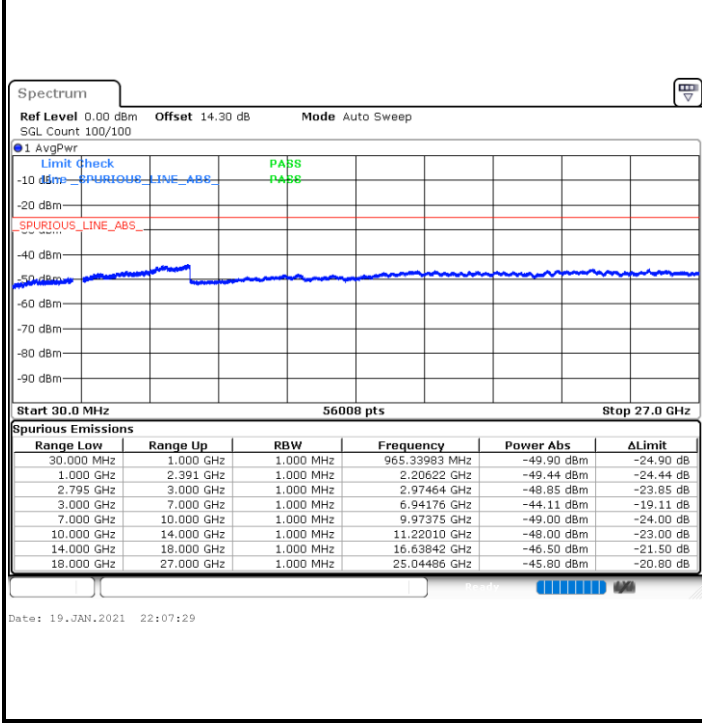
Lowest Channel / 1RB



Middle Channel / 1RB



Highest Channel / 1RB



**Frequency Stability**

| Test Conditions | | NR UL-MIMO n41 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|--|-------------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Within Band |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0035 | PASS |
| 40 | Normal Voltage | 0.0018 | |
| 30 | Normal Voltage | 0.0012 | |
| 20(Ref.) | Normal Voltage | 0.0025 | |
| 10 | Normal Voltage | 0.0015 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0025 | |
| -20 | Normal Voltage | 0.0022 | |
| -30 | Normal Voltage | 0.0017 | |
| 20 | Maximum Voltage | 0.0029 | |
| 20 | Normal Voltage | 0.0024 | |
| 20 | Battery End Point | 0.0038 | |

Note:

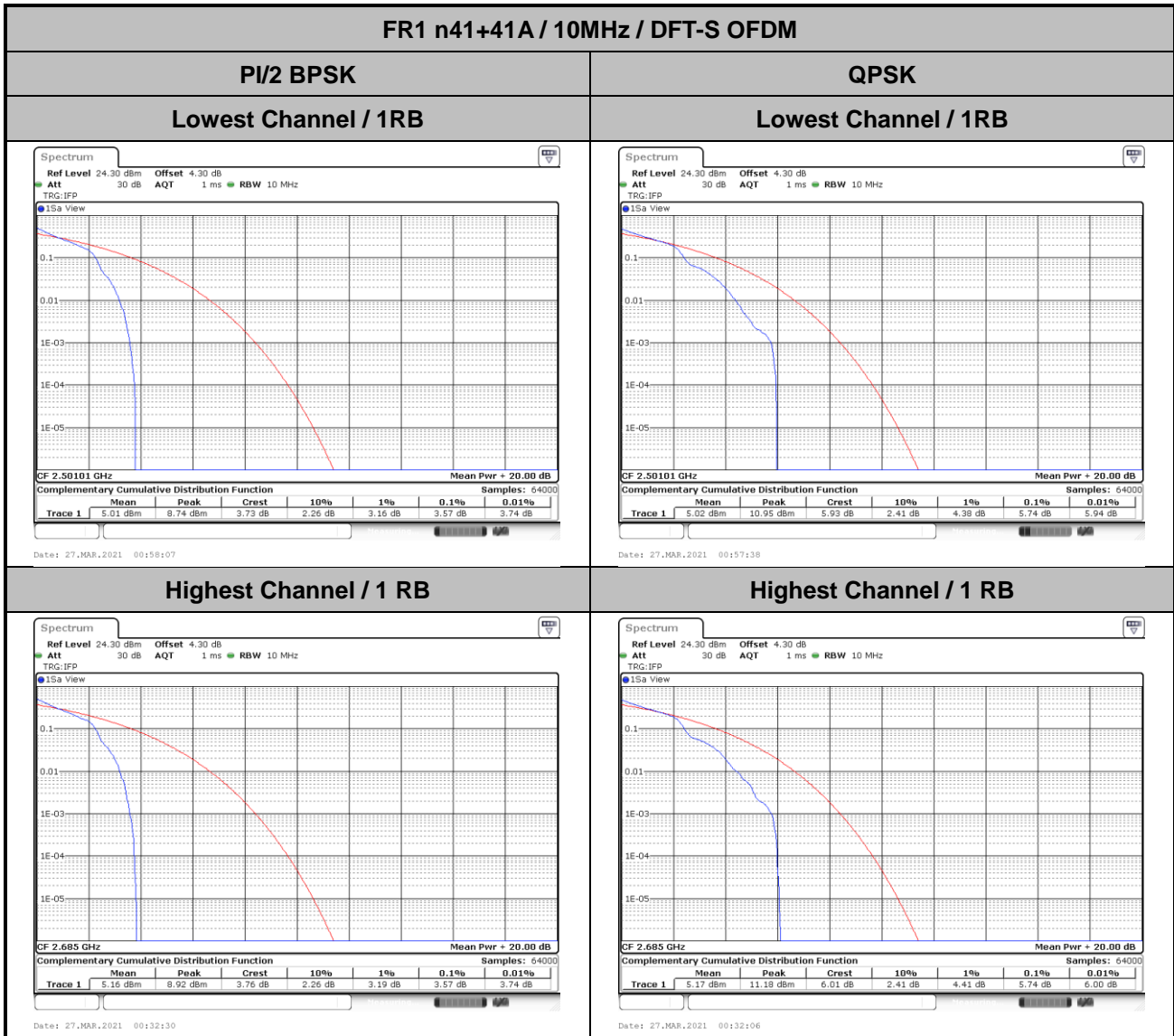
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

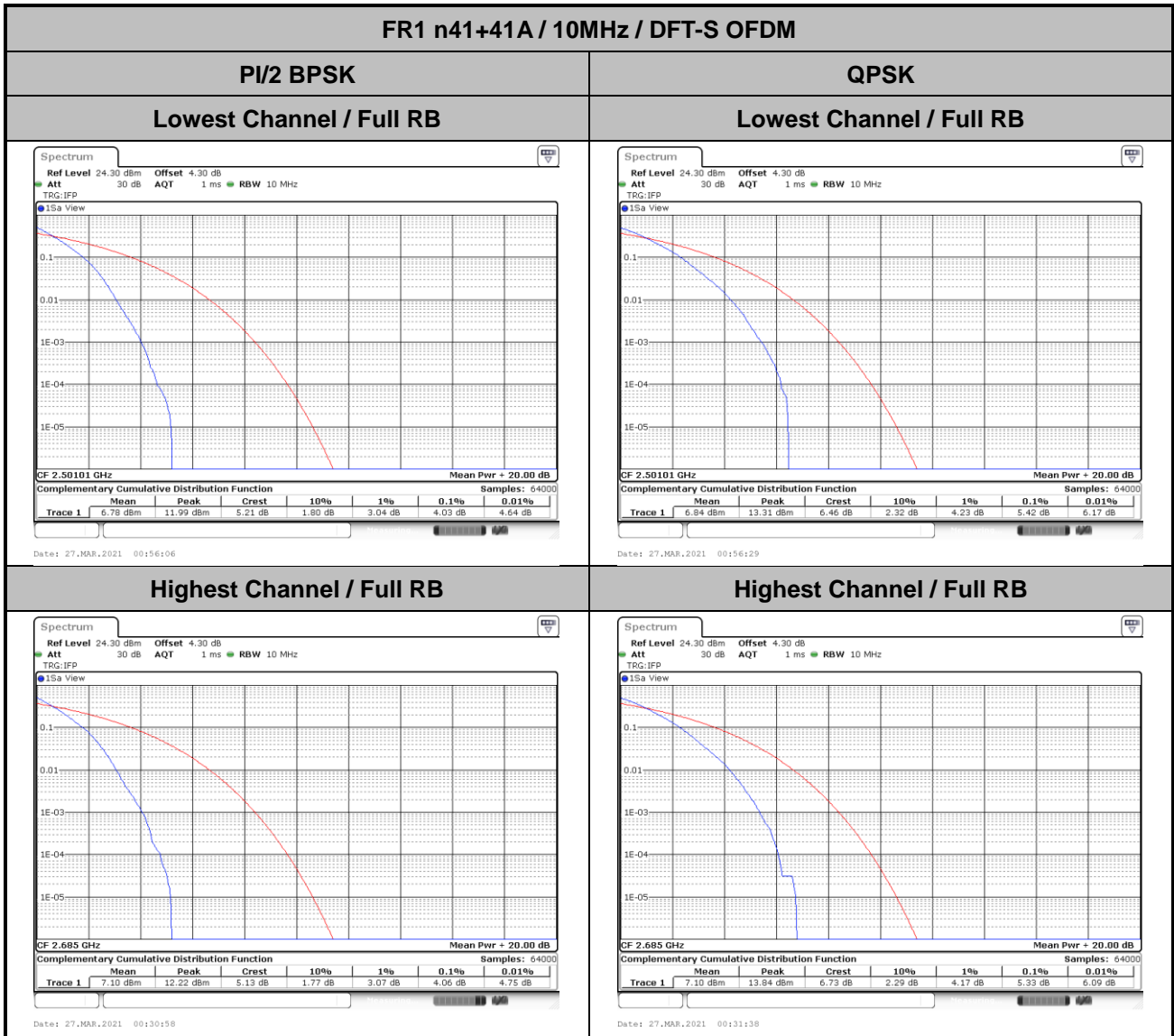


5G NR n41 NSA-SCS 15K

Peak-to-Average Ratio

| Mode | FR1 n41+41A / 10MHz / DFT-S OFDM | | | | |
|------------|----------------------------------|-----------|------|---------|-------------|
| Mod. | PI/2 BPSK | PI/2 BPSK | QPSK | QPSK | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.57 | 4.03 | 5.74 | 5.42 | PASS |
| Middle CH | - | - | - | - | |
| Highest CH | 3.57 | 4.06 | 5.74 | 5.33 | |







26dB Bandwidth

| Mode | FR1 n41 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|------------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 10MHz | 10MHz | 10MHz | 10MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Lowerst CH | 9.79 | 9.71 | 9.73 | 9.57 | | | | |

| Mode | FR1 n41 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|------------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 15MHz | 15MHz | 15MHz | 15MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Lowerst CH | 14.87 | 14.78 | 14.90 | 14.87 | | | | |

| Mode | FR1 n41 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|------------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 30MHz | 30MHz | 30MHz | 30MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Lowerst CH | 29.43 | 29.61 | 29.37 | 29.43 | | | | |

| Mode | FR1 n41 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|------------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 40MHz | 40MHz | 40MHz | 40MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Lowerst CH | 41.00 | 40.92 | 40.92 | 41.00 | | | | |