



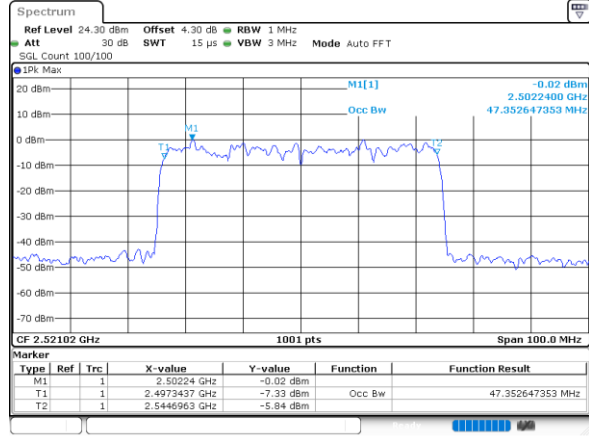
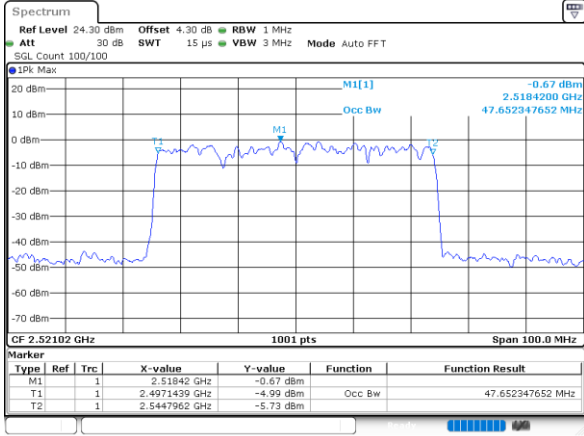
FR1 n41 / 50MHz / CP-OFDM

QPSK

16QAM

Lowerst Channel

Lowerst Channel



Date: 30.MAR.2021 17:21:19

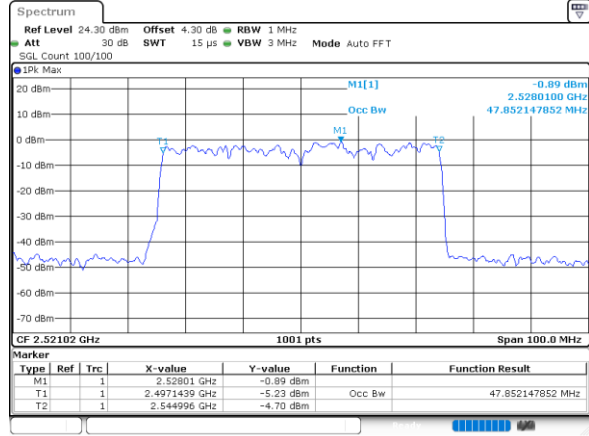
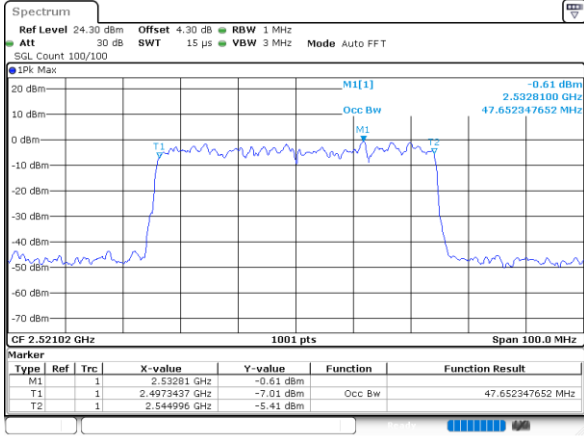
Date: 30.MAR.2021 17:20:45

64QAM

256QAM

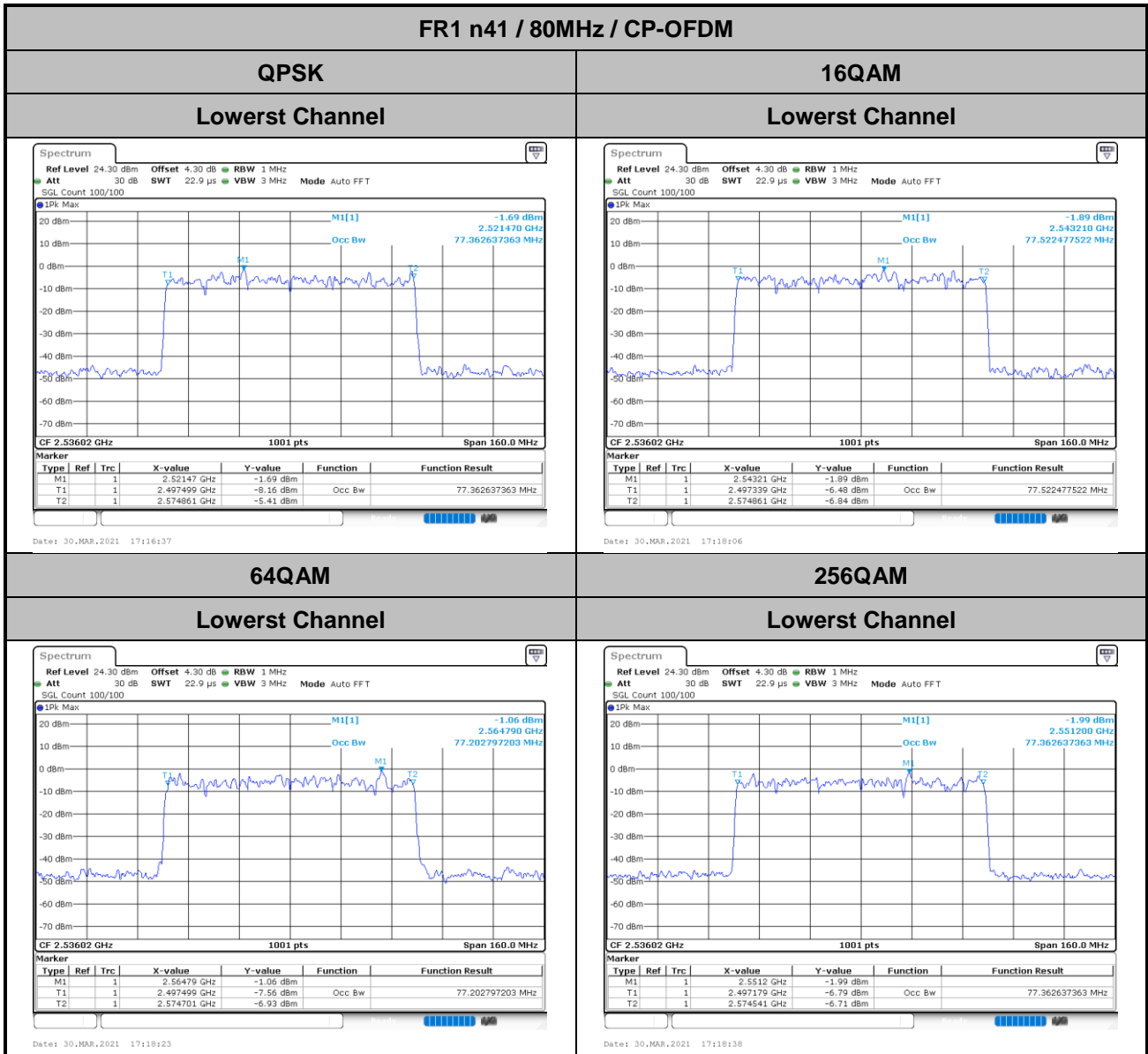
Lowerst Channel

Lowerst Channel



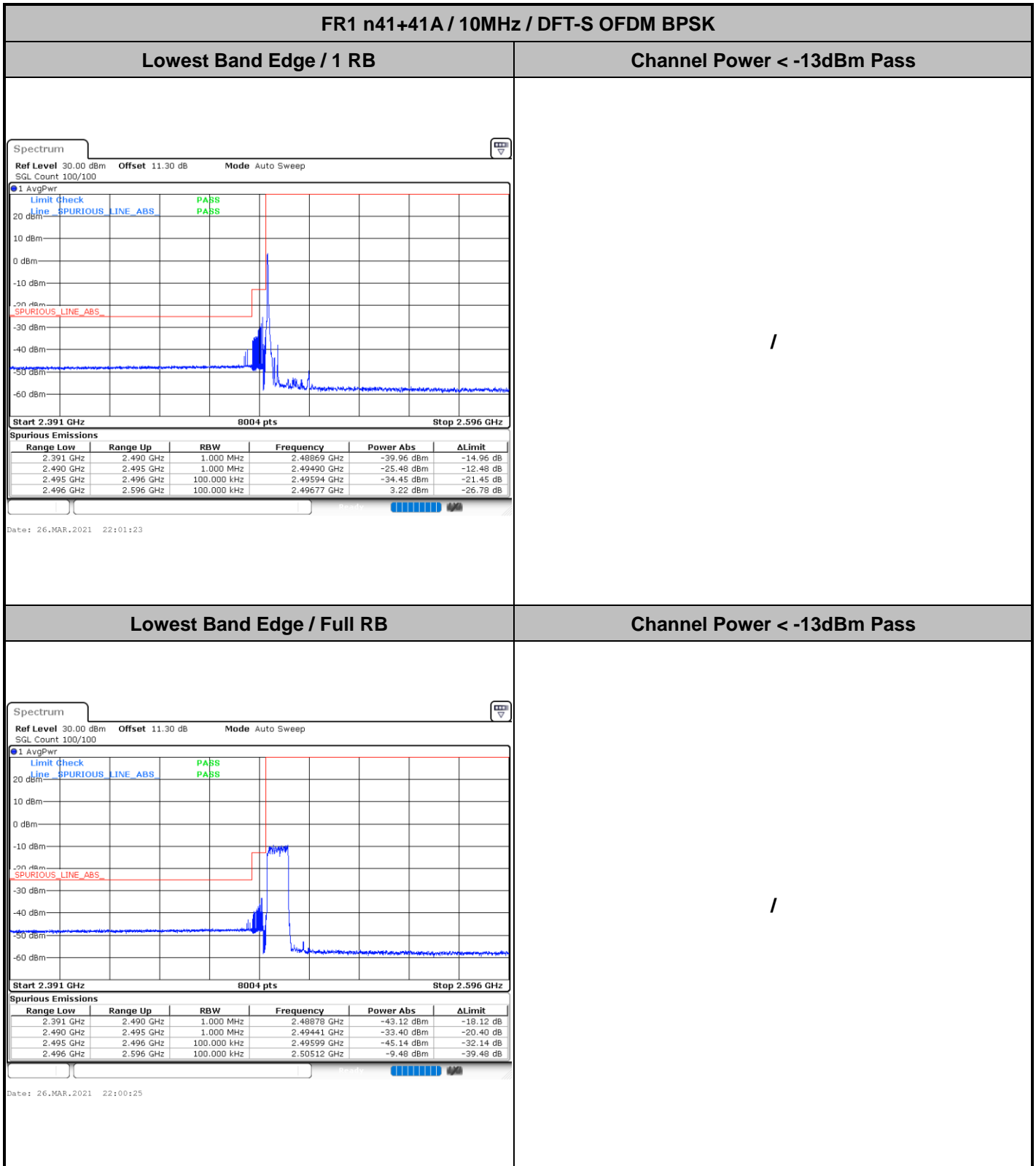
Date: 30.MAR.2021 17:20:29

Date: 30.MAR.2021 17:19:32





Conducted Band Edge

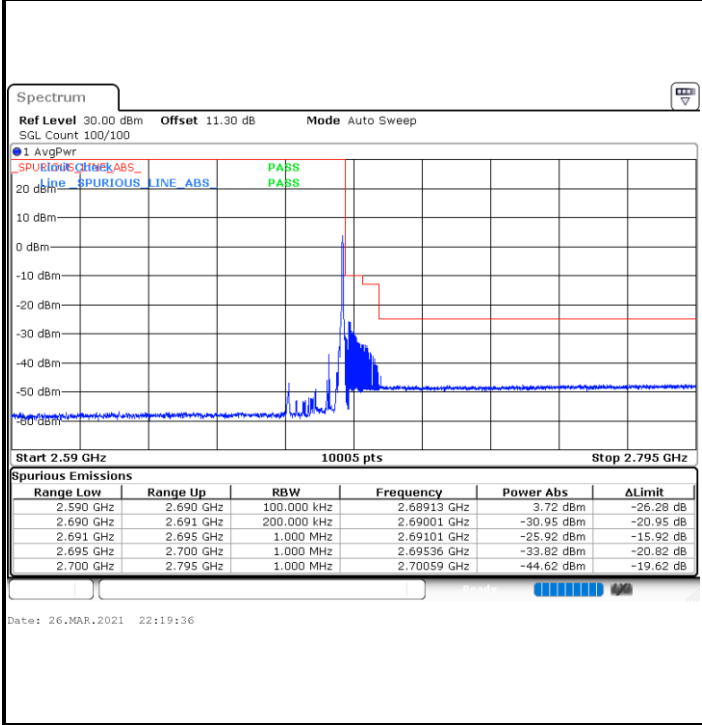




FR1 n41+41A / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

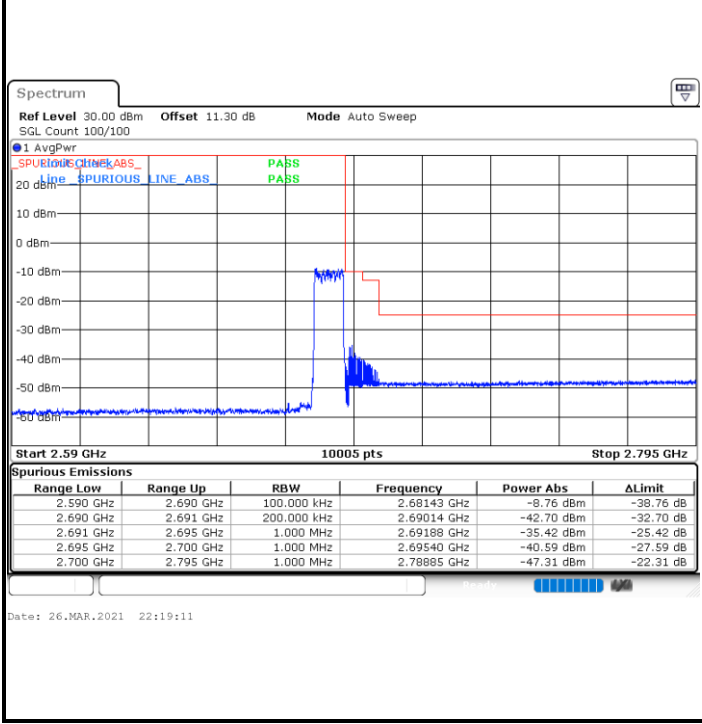
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



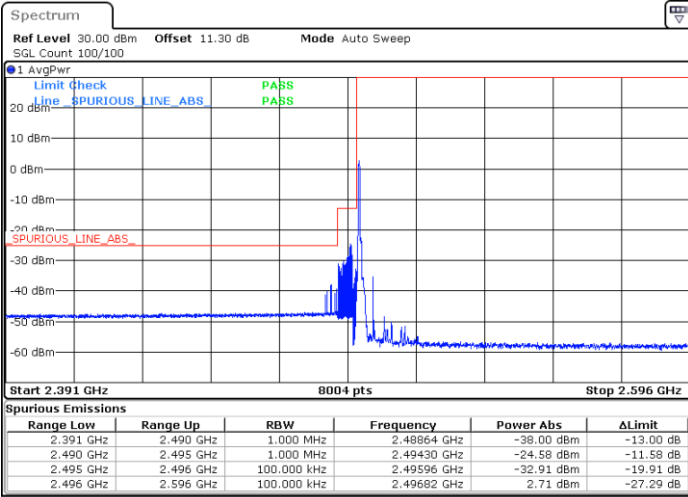
/



FR1 n41+41A / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

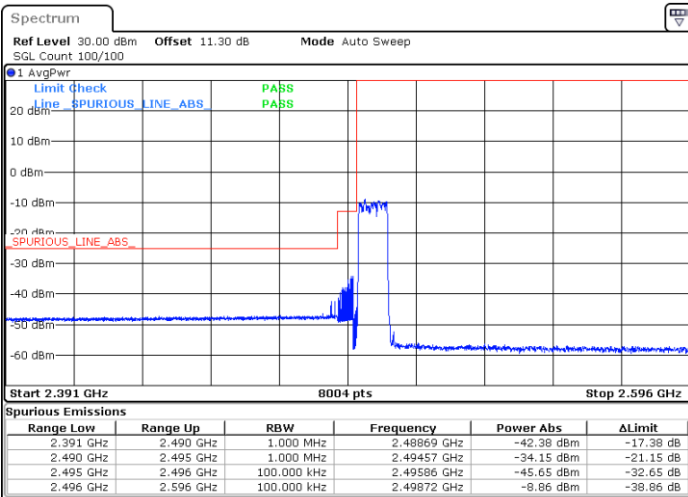
Channel Power < -13dBm Pass



Date: 26.MAR.2021 22:01:07

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



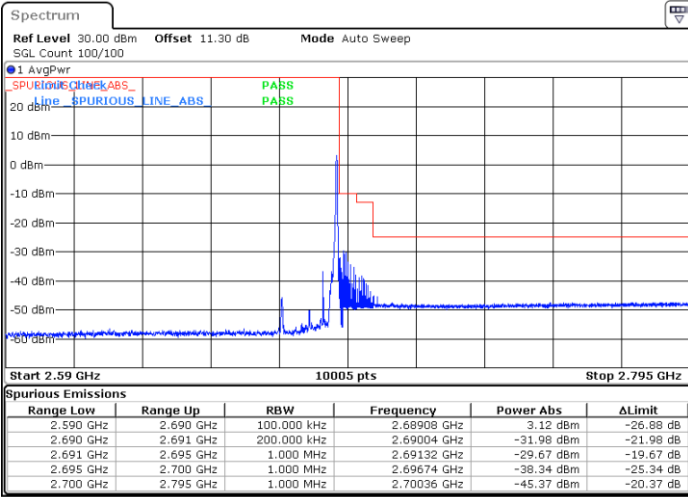
Date: 26.MAR.2021 22:00:44



FR1 n41+41A / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

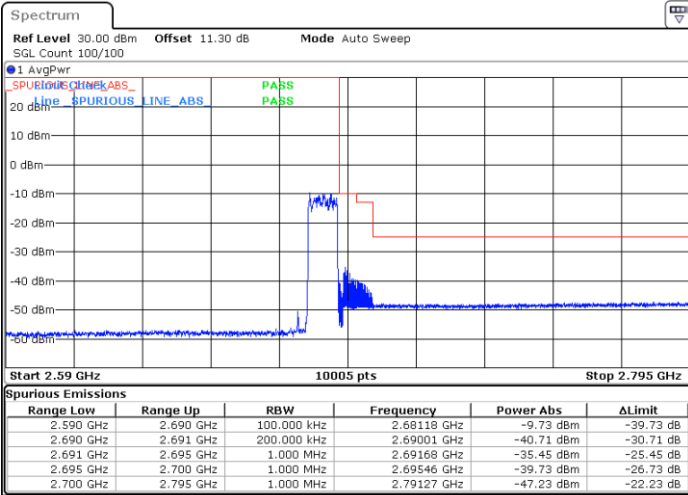
Channel Power < -13dBm Pass



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

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



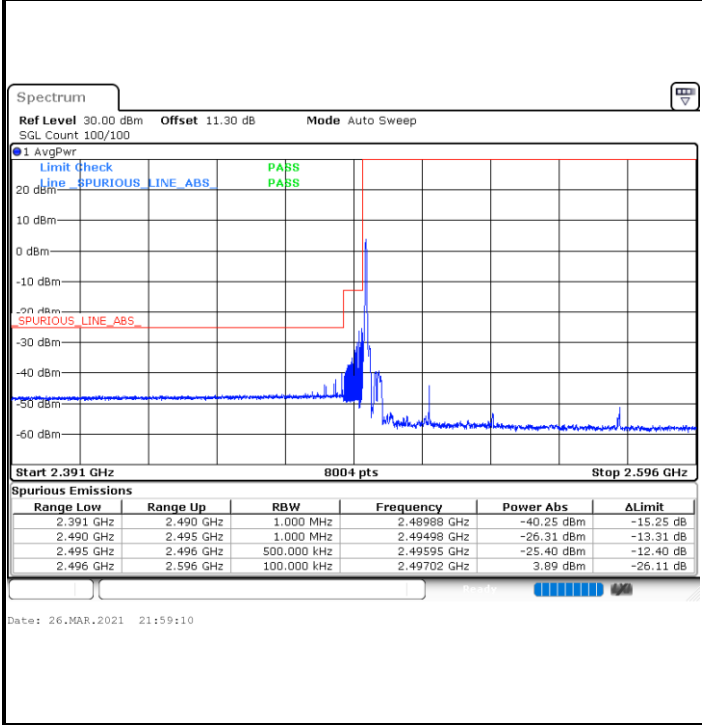
Date: 26.MAR.2021 22:18:03



FR1 n41+41A / 40MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

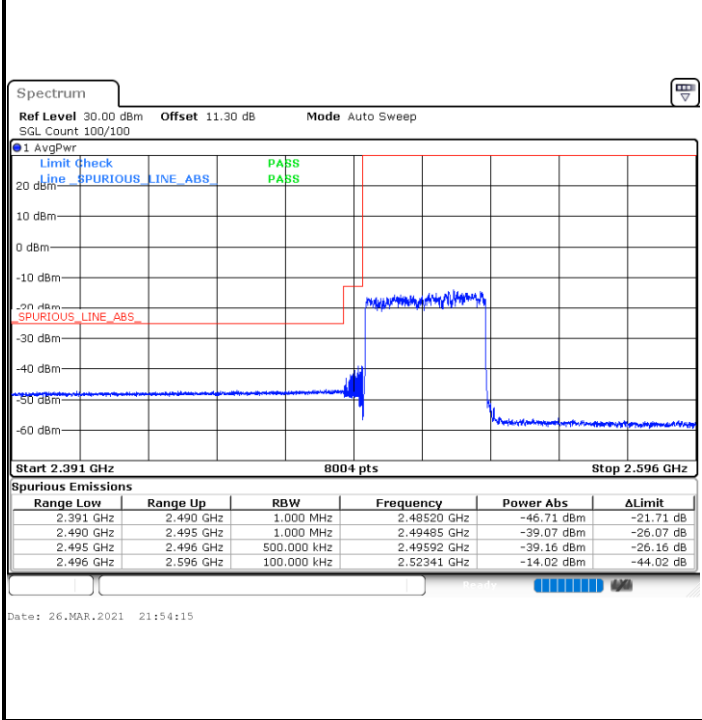
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



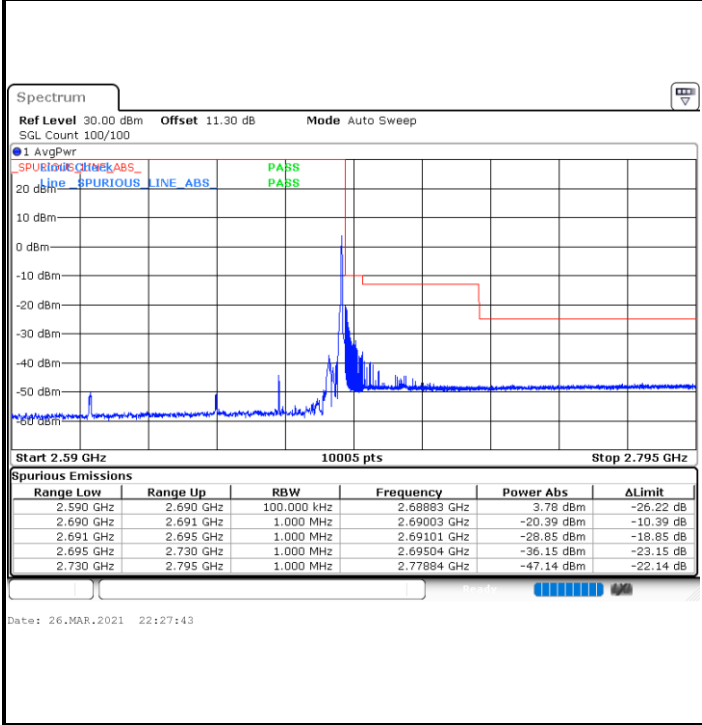
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FR1 n41+41A / 40MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

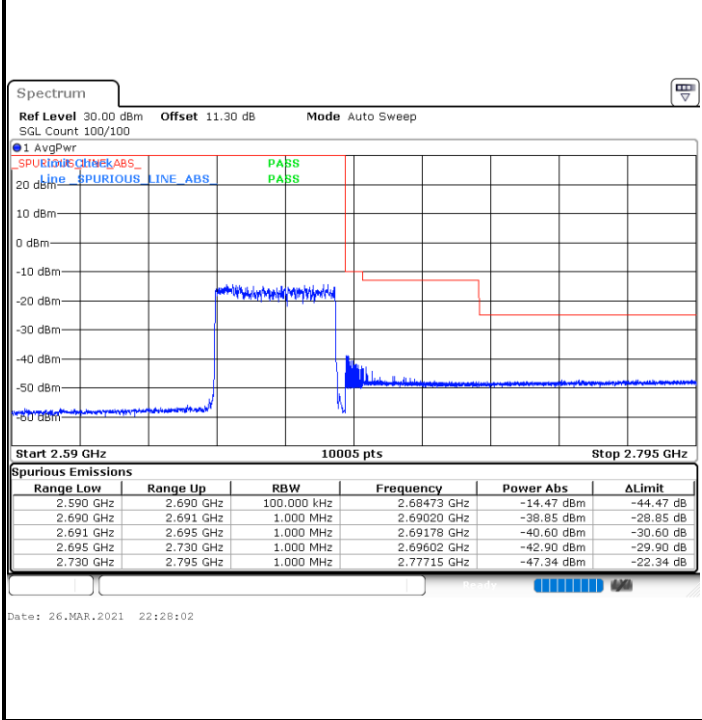
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



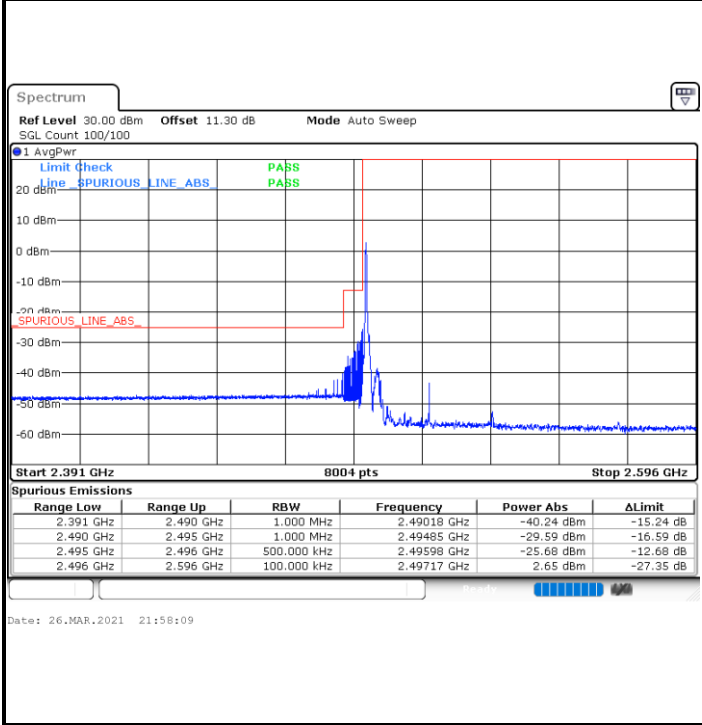
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FR1 n41+41A / 40MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

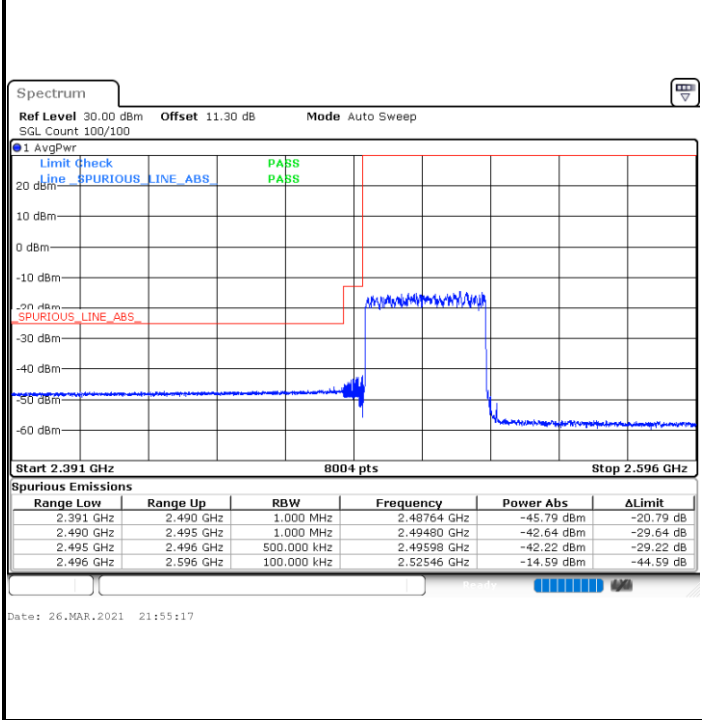
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



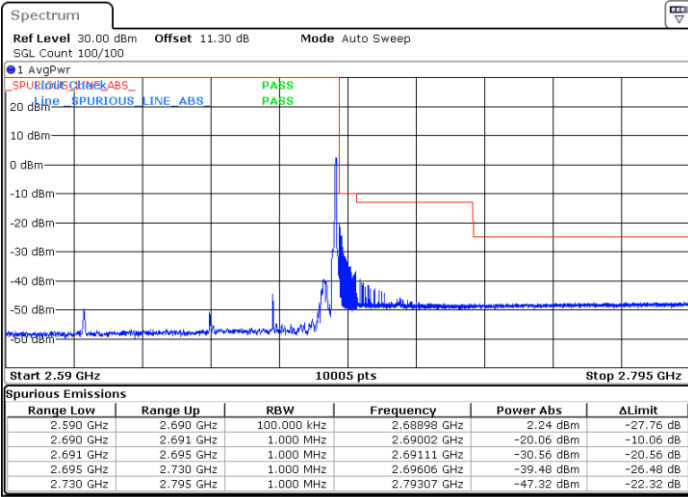
/



FR1 n41+41A / 40MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

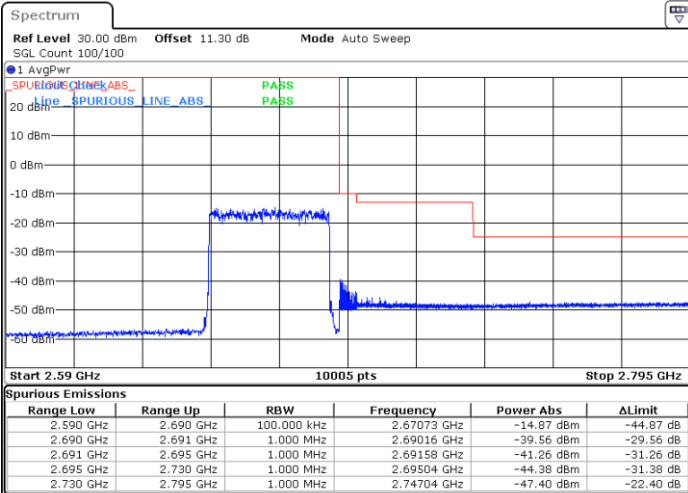
Channel Power < -13dBm Pass



Date: 26.MAR.2021 22:27:20

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



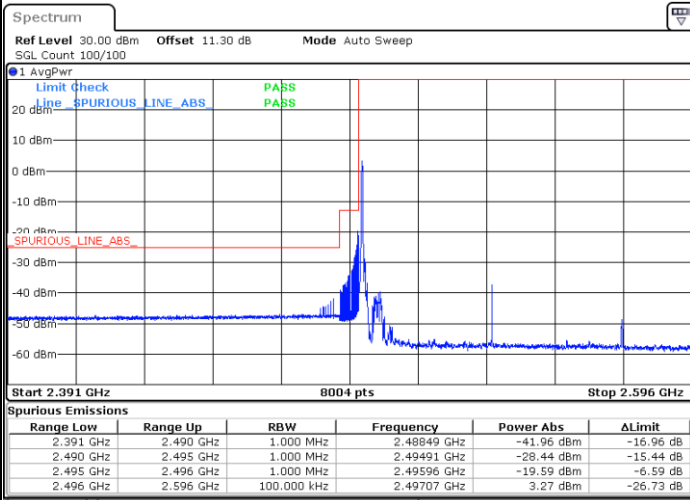
Date: 26.MAR.2021 22:28:16



FR1 n41+41A / 80MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

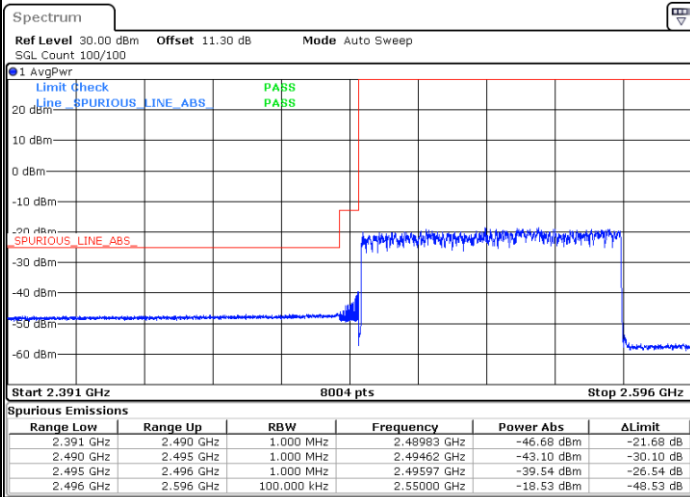
Channel Power < -13dBm Pass



Date: 26.MAR.2021 21:33:53

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



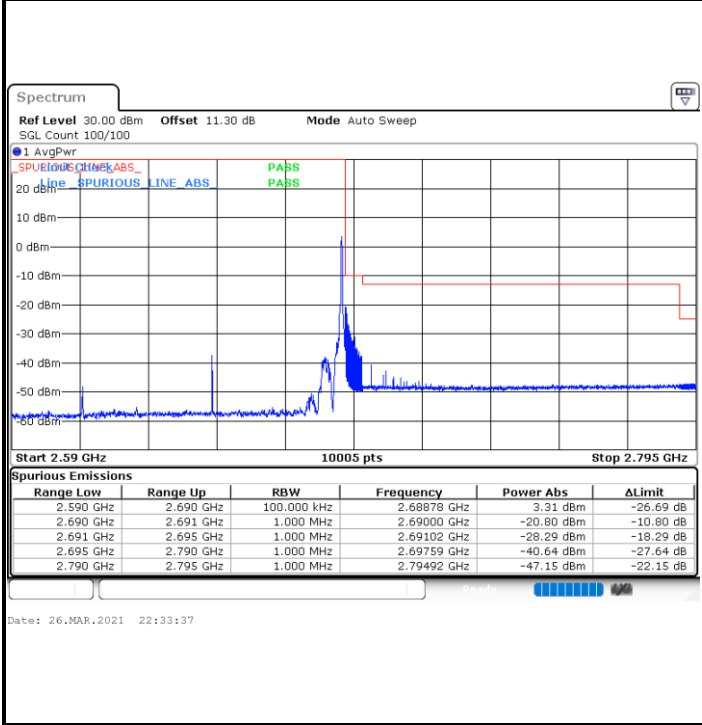
Date: 26.MAR.2021 21:30:04



FR1 n41+41A / 80MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

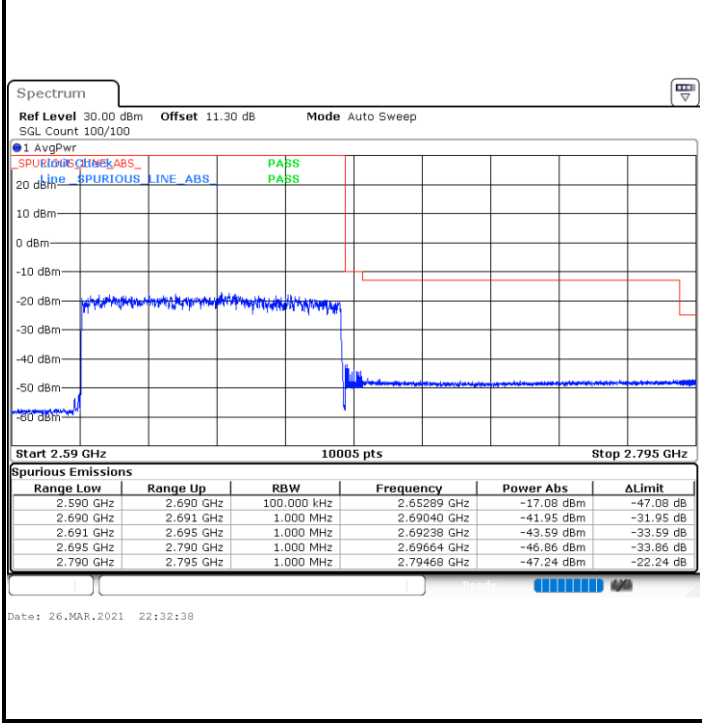
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



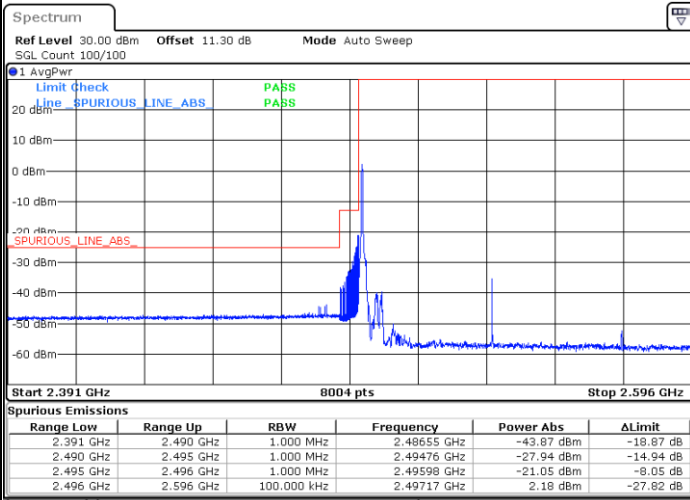
/



FR1 n41+41A / 80MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

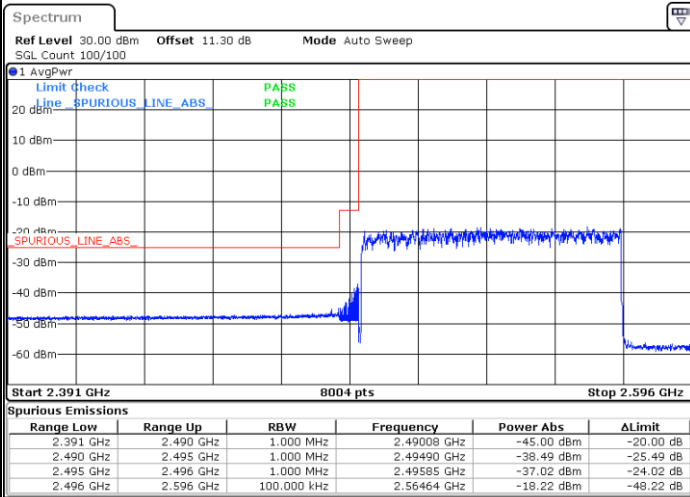
Channel Power < -13dBm Pass



Date: 26.MAR.2021 21:33:30

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



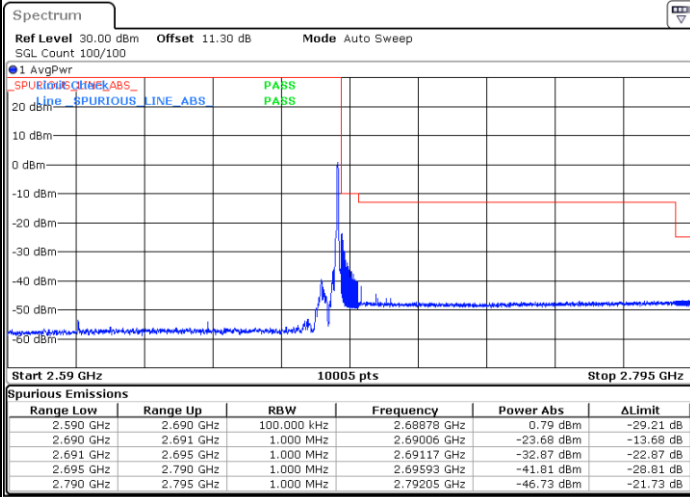
Date: 26.MAR.2021 21:33:03



FR1 n41+41A / 80MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

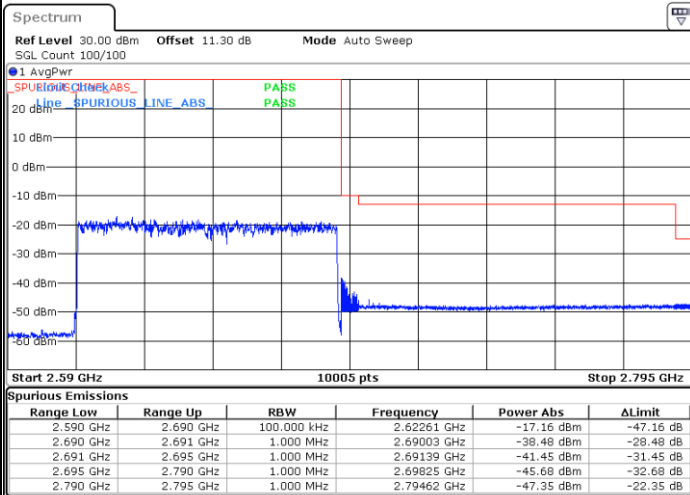
Channel Power < -13dBm Pass



Date: 29.MAR.2021 04:33:59

Highest Band Edge / Full RB

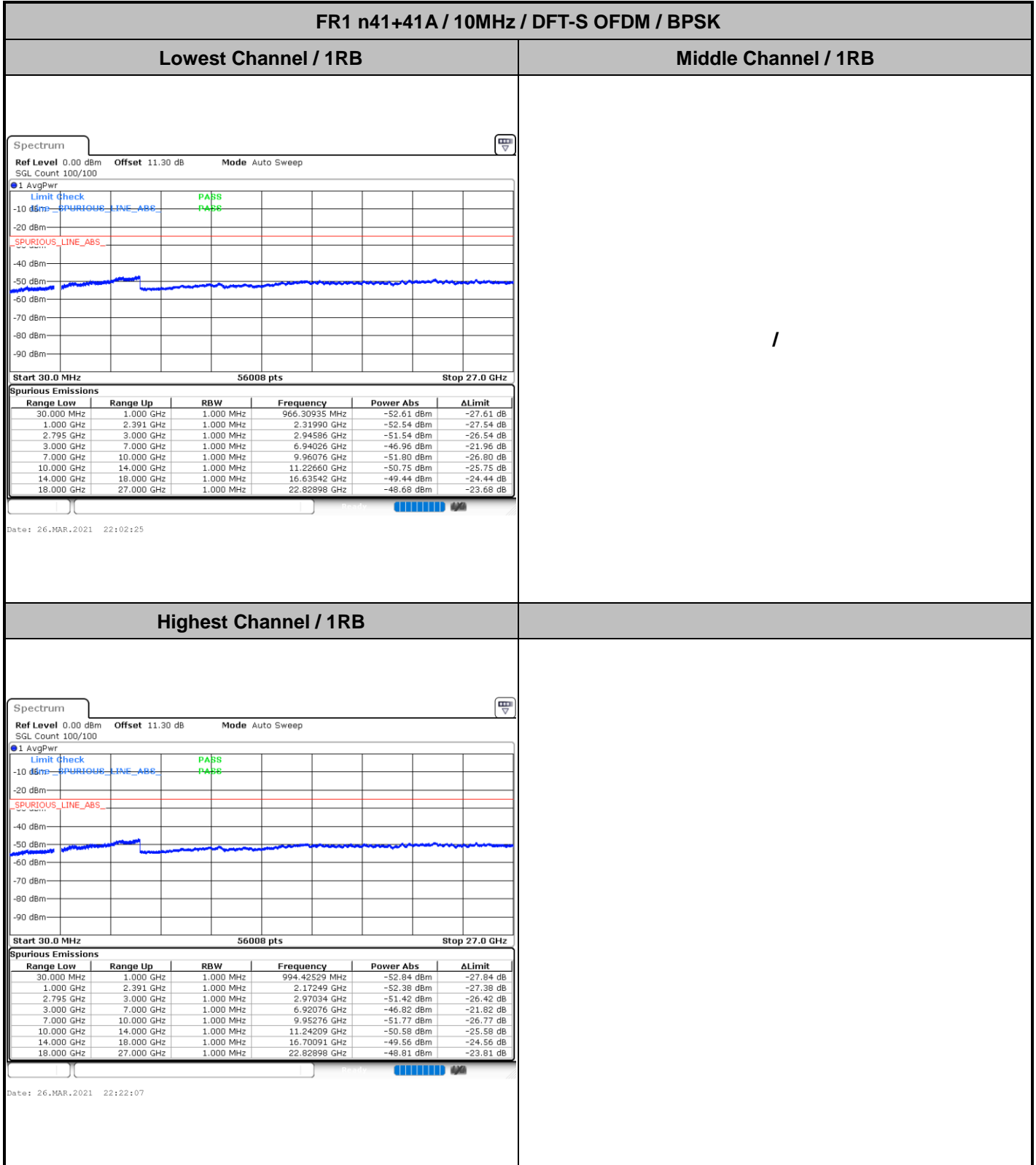
Channel Power < -13dBm Pass



Date: 26.MAR.2021 22:31:02



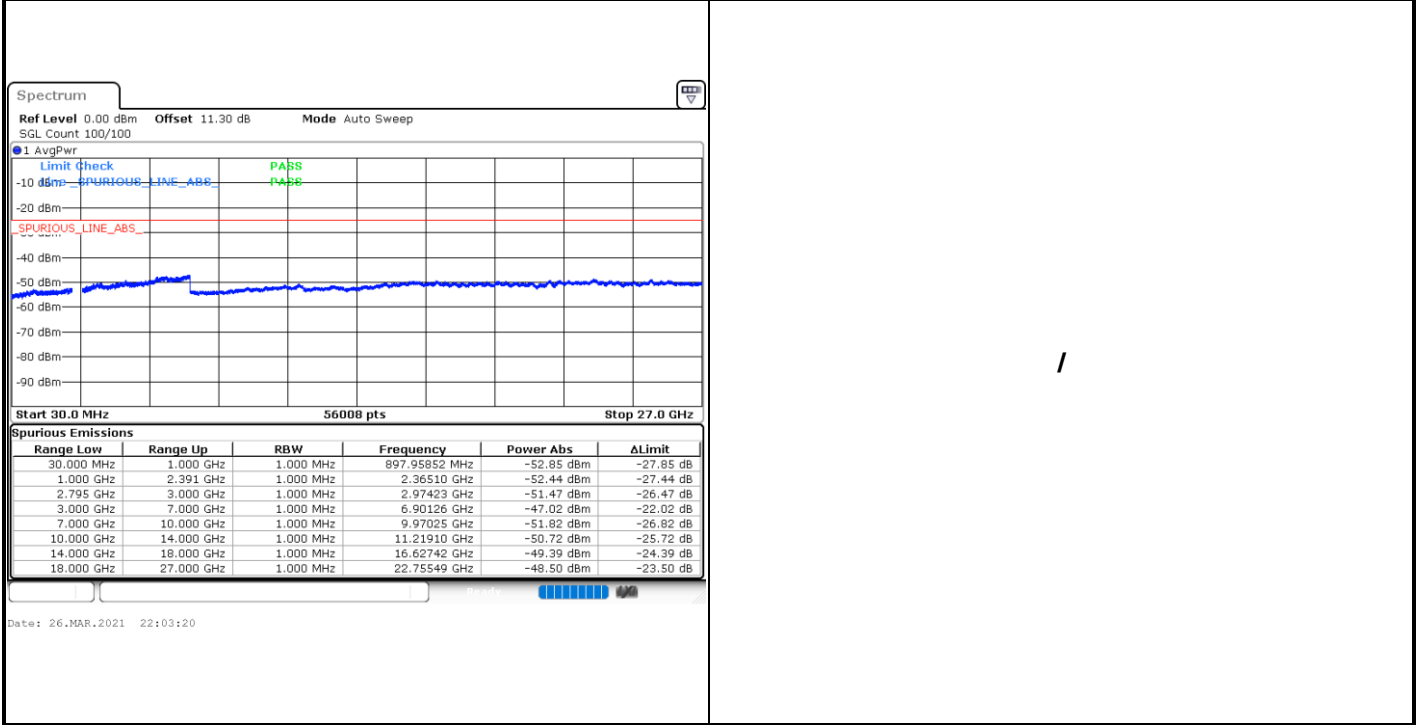
Conducted Spurious Emission



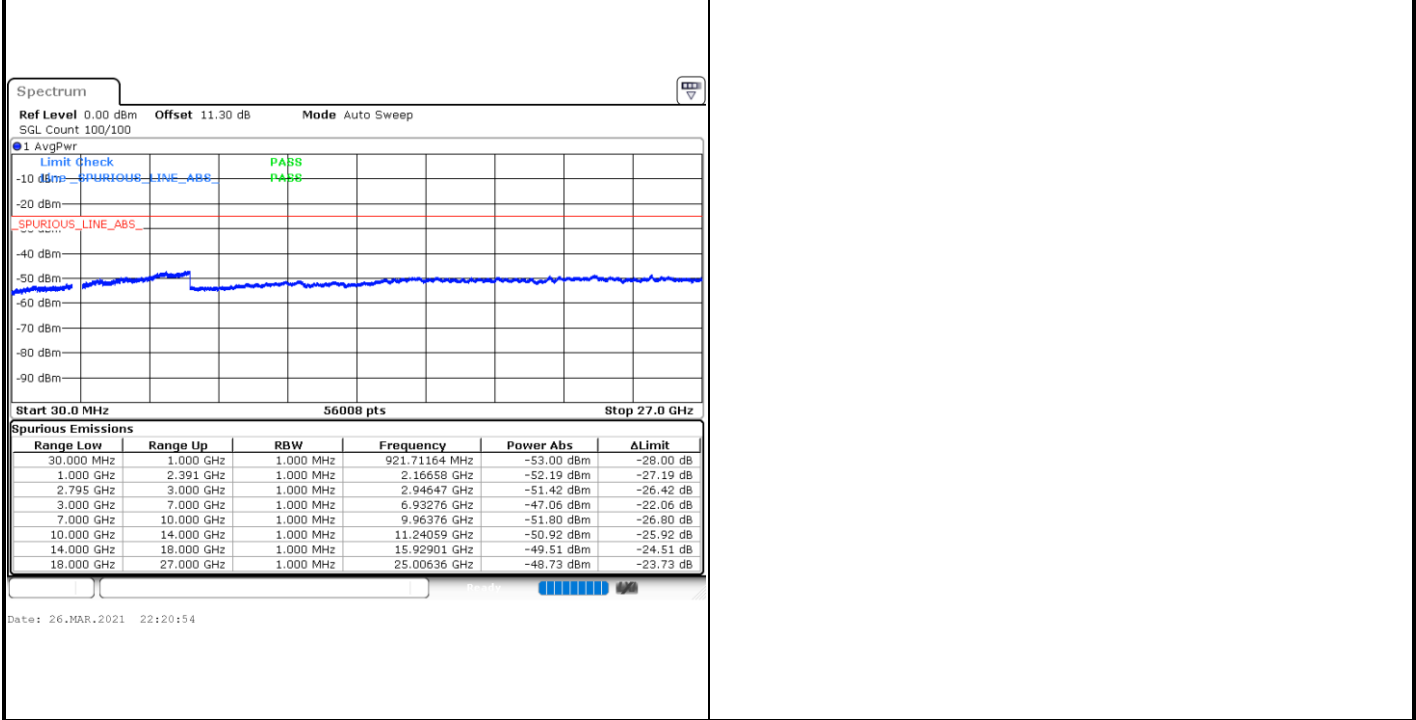


FR1 n41+41A / 10MHz / DFT-S OFDM / QPSK

| | |
|-----------------------------|-----------------------------|
| Lowest Channel / 1RB | Middle Channel / 1RB |
|-----------------------------|-----------------------------|



Highest Channel / 1RB

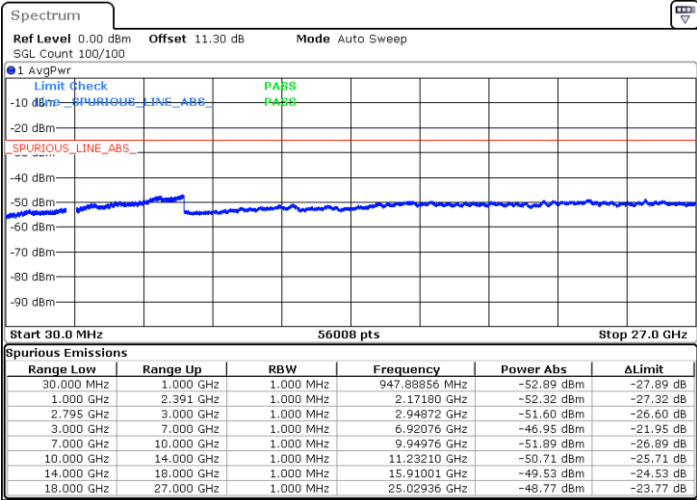




FR1 n41+41A / 40MHz / DFT-S OFDM / BPSK

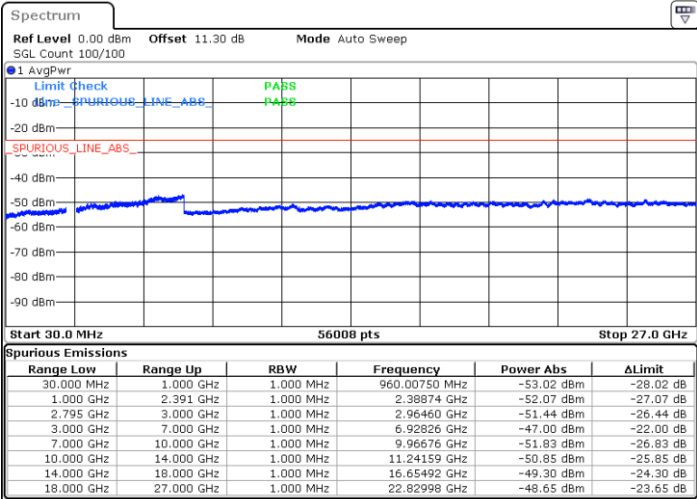
Lowest Channel / 1RB

Middle Channel / 1RB



Date: 26.MAR.2021 21:57:04

Highest Channel / 1RB



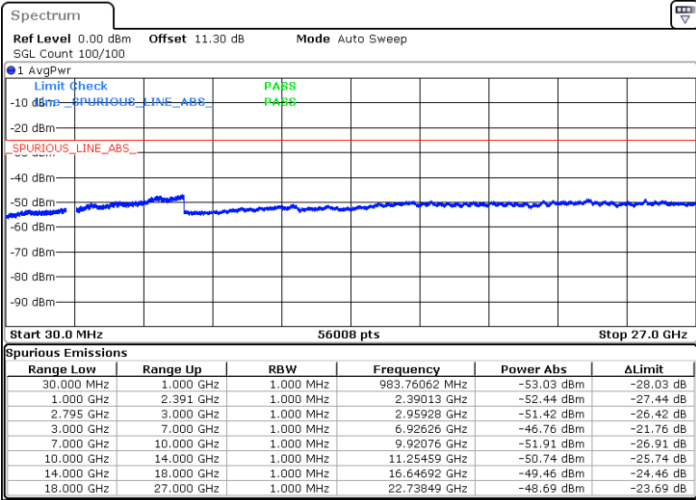
Date: 26.MAR.2021 22:23:40



FR1 n41+41A / 40MHz / DFT-S OFDM / QPSK

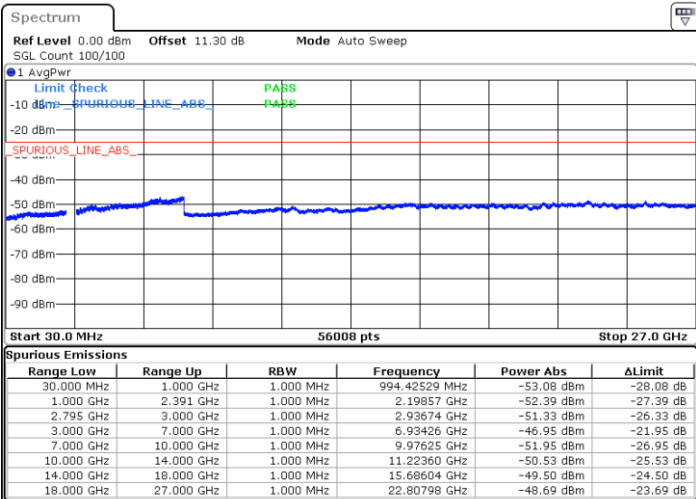
Lowest Channel / 1RB

Middle Channel / 1RB



Date: 26.MAR.2021 21:56:11

Highest Channel / 1RB

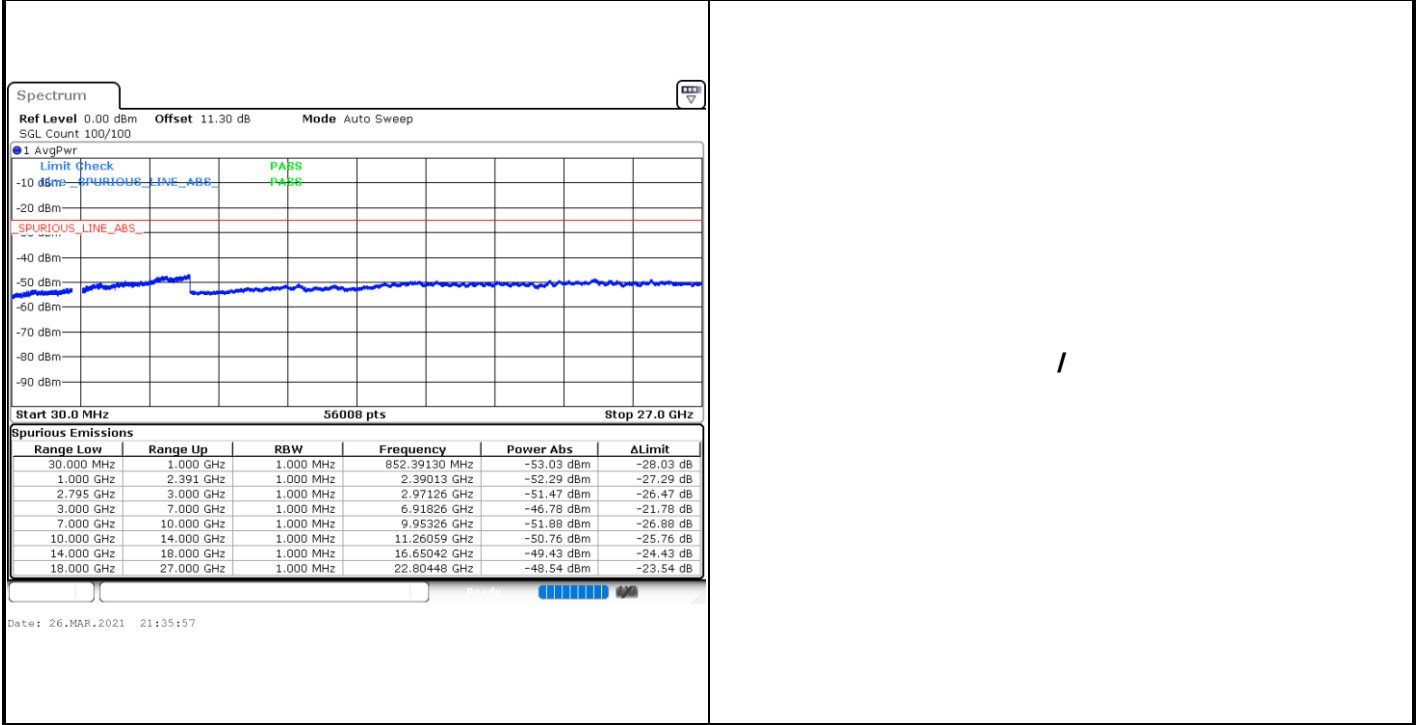


Date: 26.MAR.2021 22:26:42

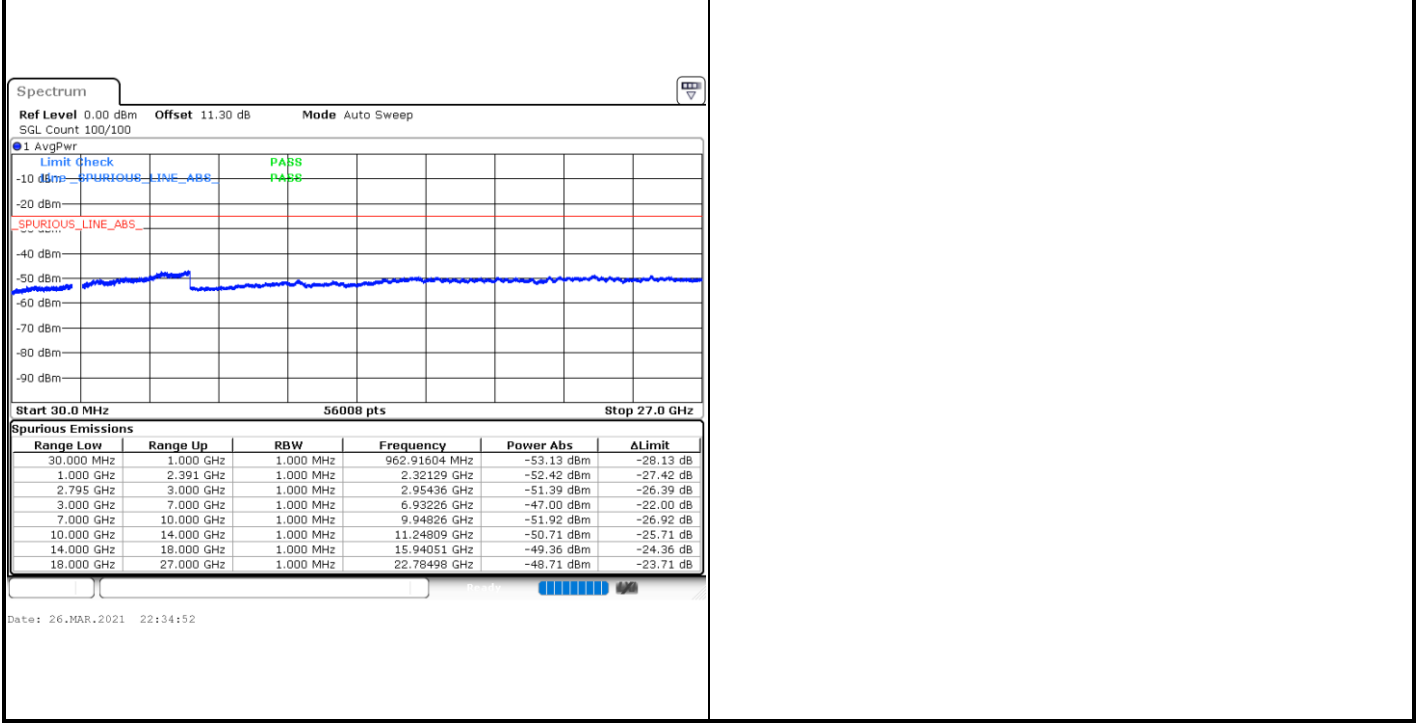


FR1 n41+41A / 80MHz / DFT-S OFDM / BPSK

| | |
|-----------------------------|-----------------------------|
| Lowest Channel / 1RB | Middle Channel / 1RB |
|-----------------------------|-----------------------------|



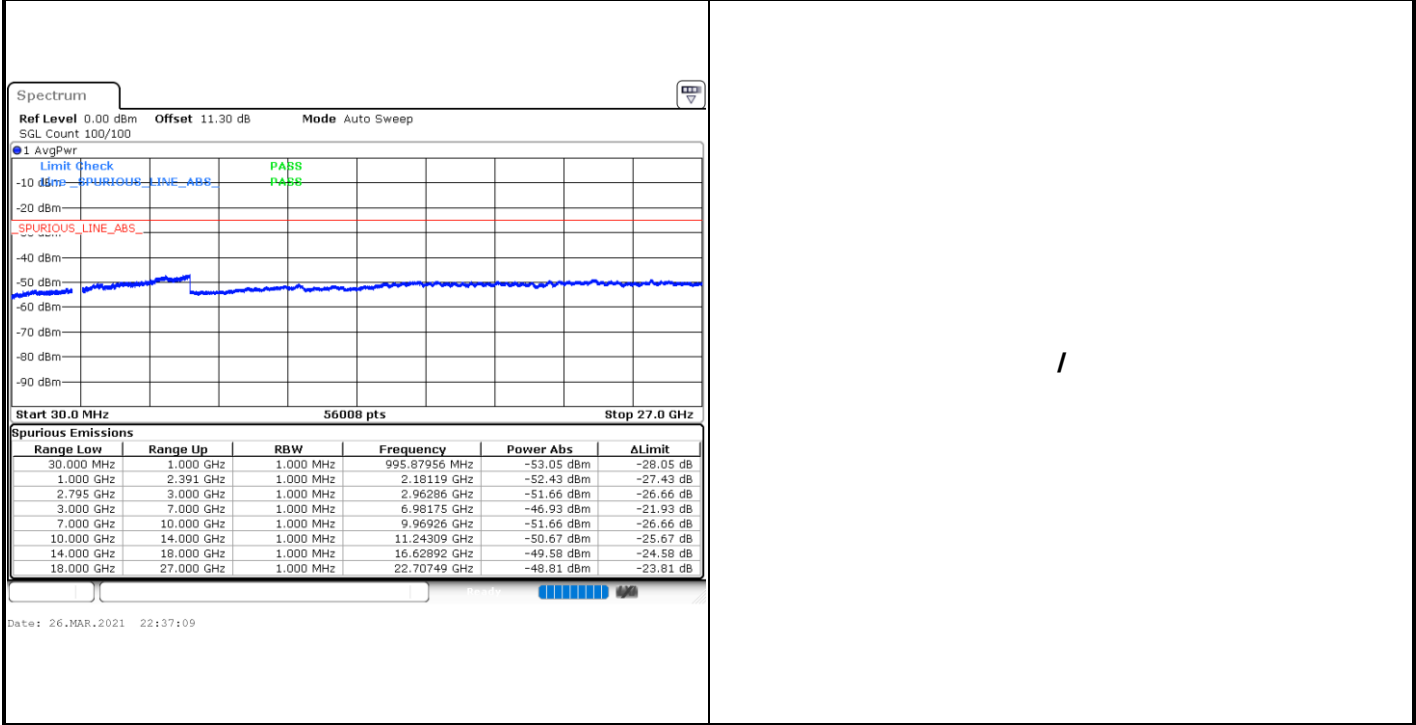
Highest Channel / 1RB



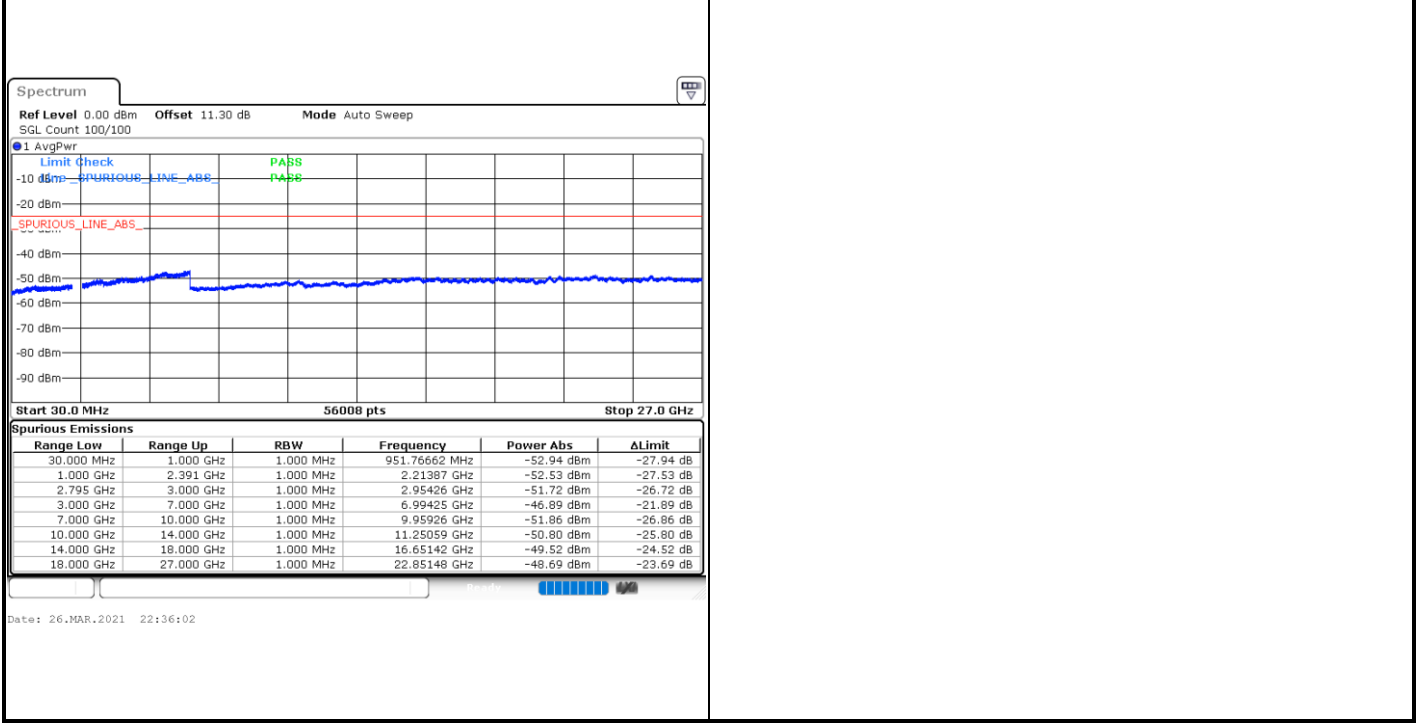


FR1 n41+41A / 80MHz / DFT-S OFDM / QPSK

| | |
|-----------------------------|-----------------------------|
| Lowest Channel / 1RB | Middle Channel / 1RB |
|-----------------------------|-----------------------------|



Highest Channel / 1RB





Frequency Stability

| Test Conditions | | NR n41+41A (BPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|-------------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Within Band |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0015 | PASS |
| 40 | Normal Voltage | 0.0017 | |
| 30 | Normal Voltage | 0.0008 | |
| 20(Ref.) | Normal Voltage | 0.0006 | |
| 10 | Normal Voltage | 0.0017 | |
| 0 | Normal Voltage | 0.0023 | |
| -10 | Normal Voltage | 0.0014 | |
| -20 | Normal Voltage | 0.0018 | |
| -30 | Normal Voltage | 0.0008 | |
| 20 | Maximum Voltage | 0.0017 | |
| 20 | Normal Voltage | 0.0013 | |
| 20 | Battery End Point | 0.0014 | |

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 n71 SA

Peak-to-Average Ratio

| Mode | FR1 n71 / 20MHz / 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 | 3.45 | 4.12 | 5.68 | 5.39 | PASS |
| Middle CH | 3.28 | 3.80 | 4.84 | 4.99 | |
| Highest CH | 3.62 | 4.06 | 5.65 | 5.22 | |



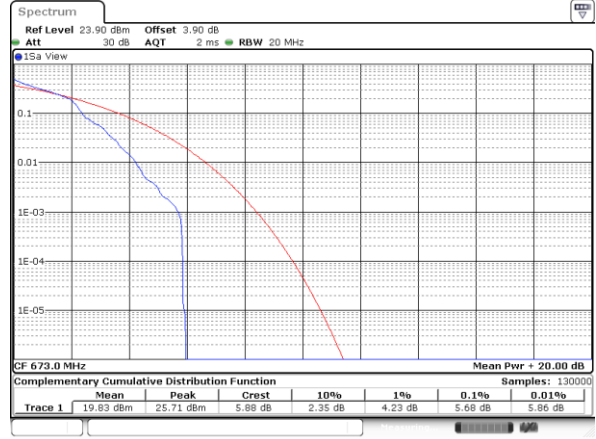
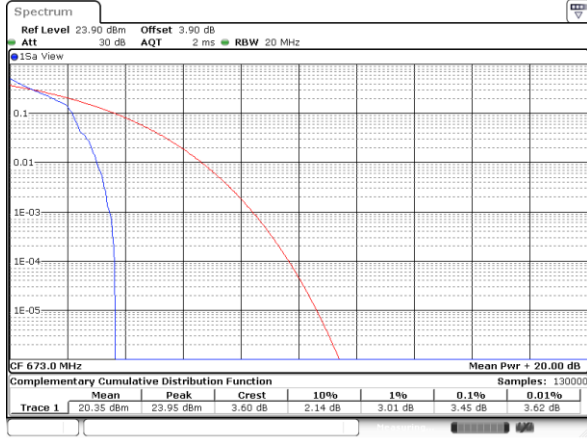
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

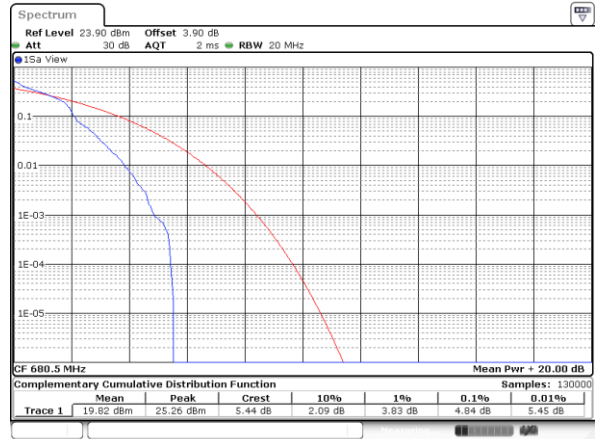
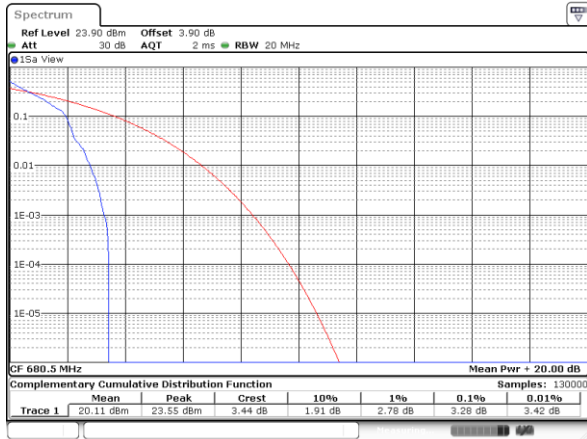


Date: 15_JAN.2021 00:07:57

Date: 15_JAN.2021 00:07:41

Middle Channel / 1 RB

Middle Channel / 1 RB

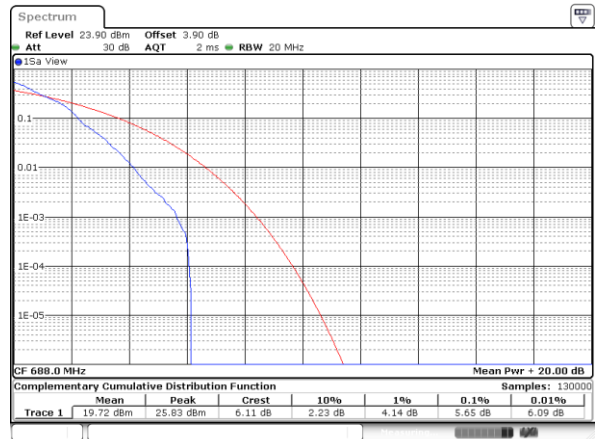
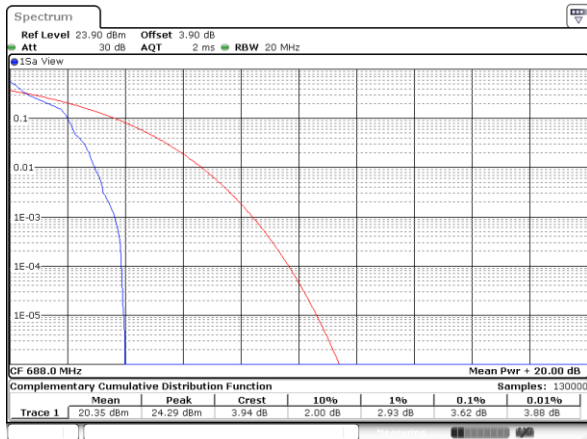


Date: 15_JAN.2021 00:10:14

Date: 15_JAN.2021 00:10:04

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 15_JAN.2021 00:09:12

Date: 15_JAN.2021 00:09:22



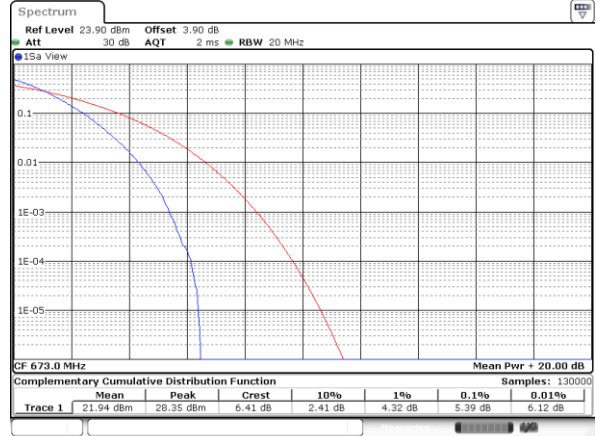
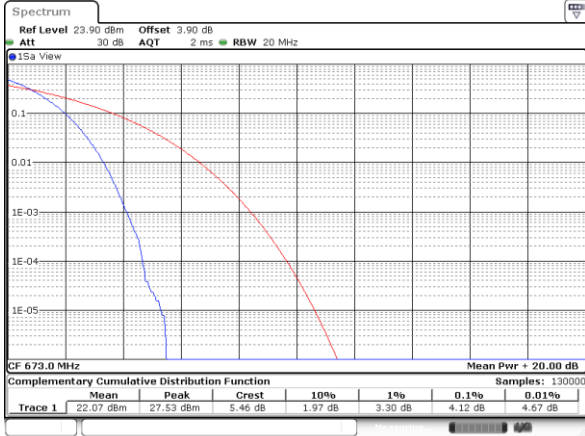
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

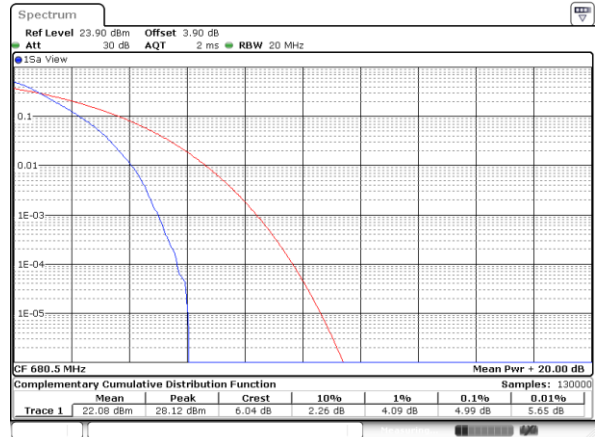
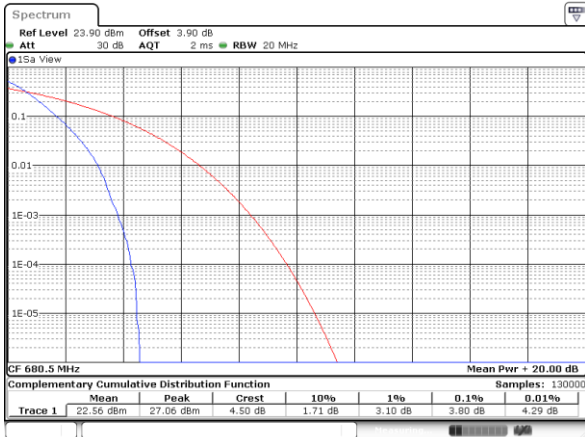


Date: 15_JAN.2021 00:08:11

Date: 15_JAN.2021 00:08:22

Middle Channel / Full RB

Middle Channel / Full RB

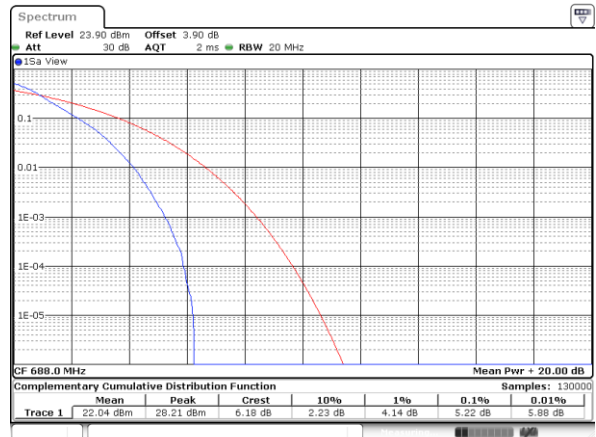
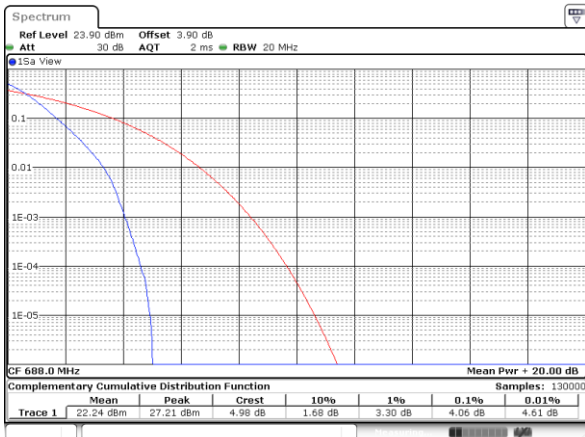


Date: 15_JAN.2021 00:10:26

Date: 15_JAN.2021 00:10:38

Highest Channel / Full RB

Highest Channel / Full RB



Date: 15_JAN.2021 00:09:01

Date: 15_JAN.2021 00:08:50



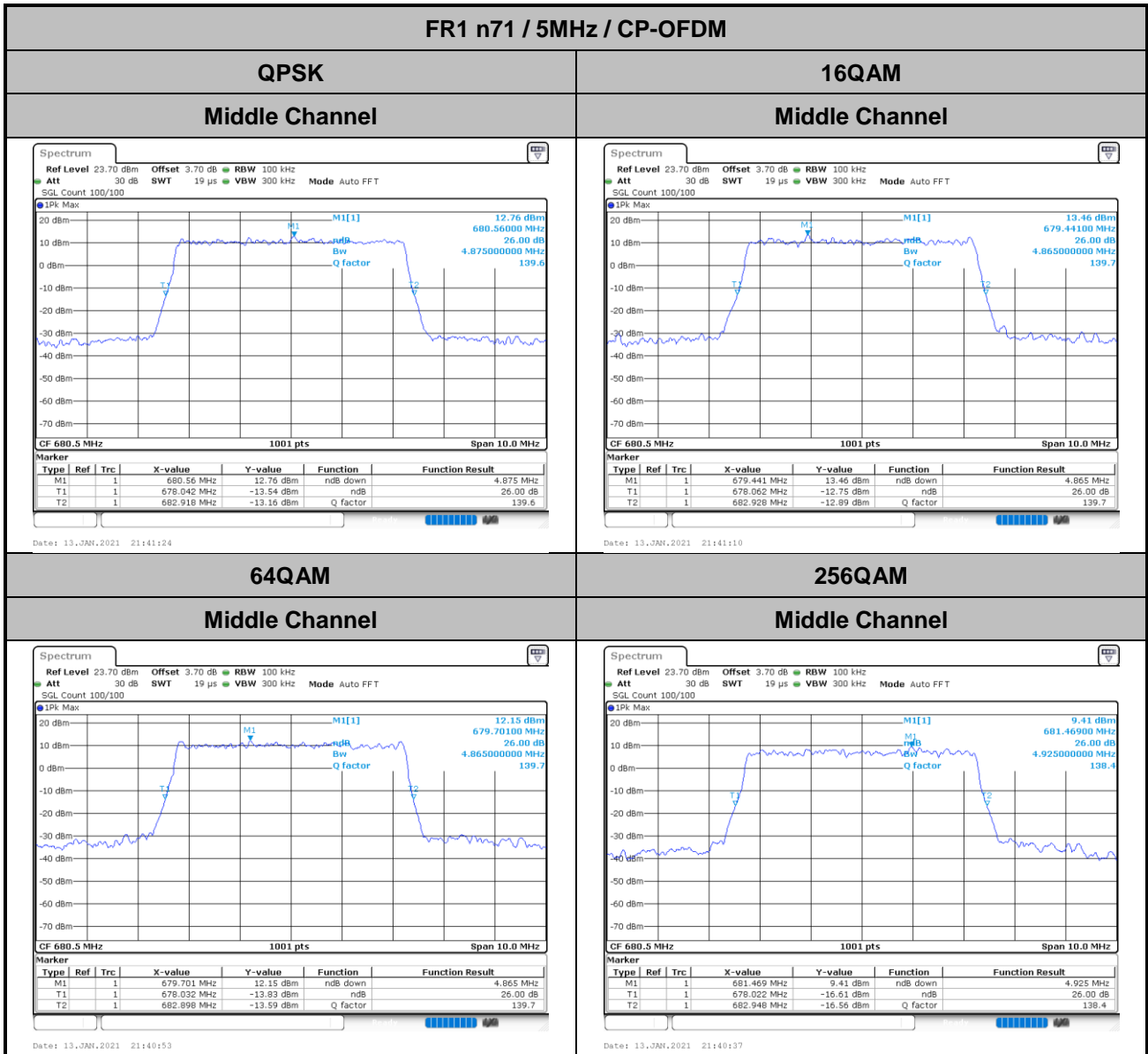
26dB Bandwidth

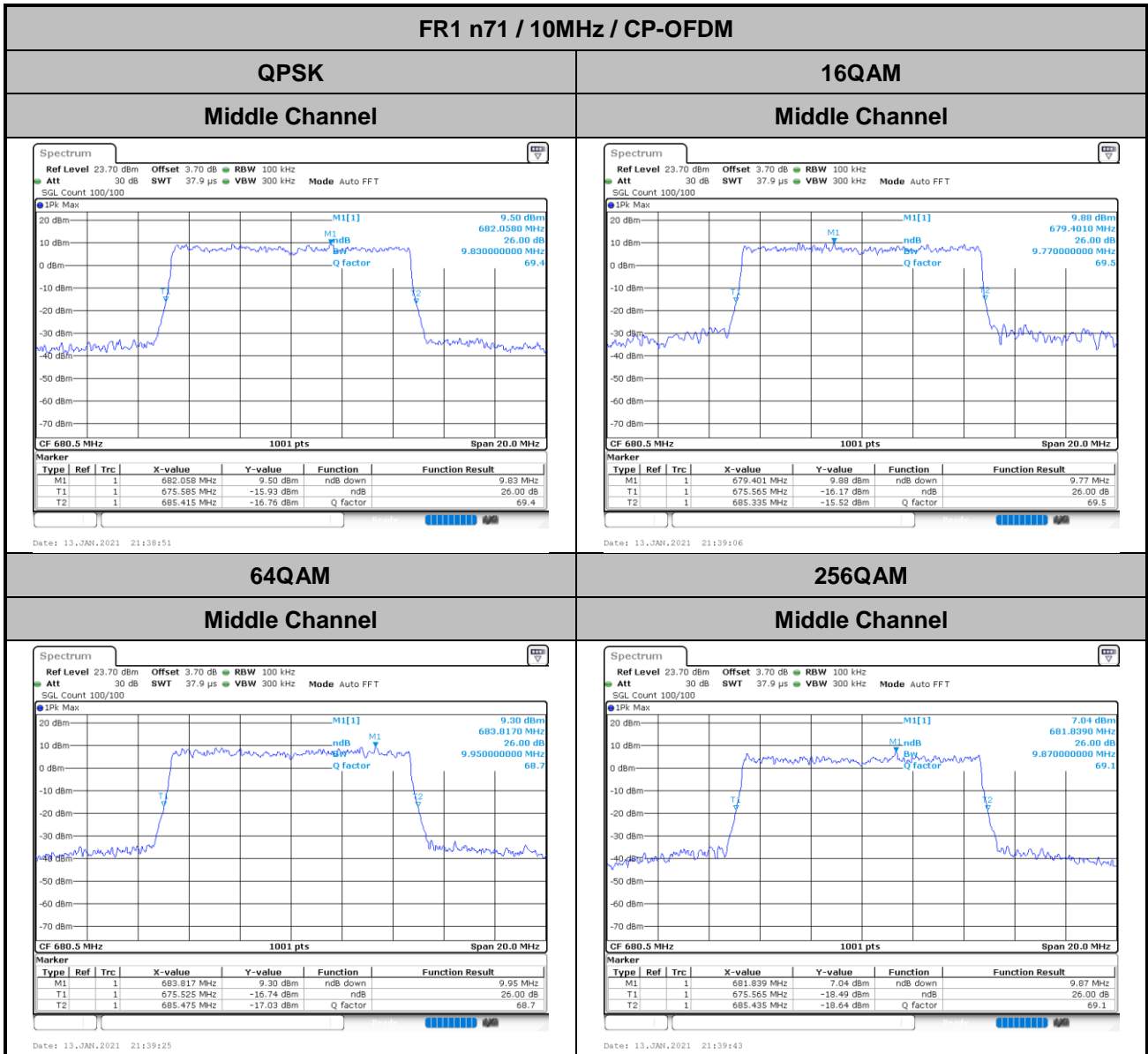
| Mode | FR1 n71 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|-----------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 5MHz | 5MHz | 5MHz | 5MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 4.88 | 4.87 | 4.87 | 4.92 | | | | |

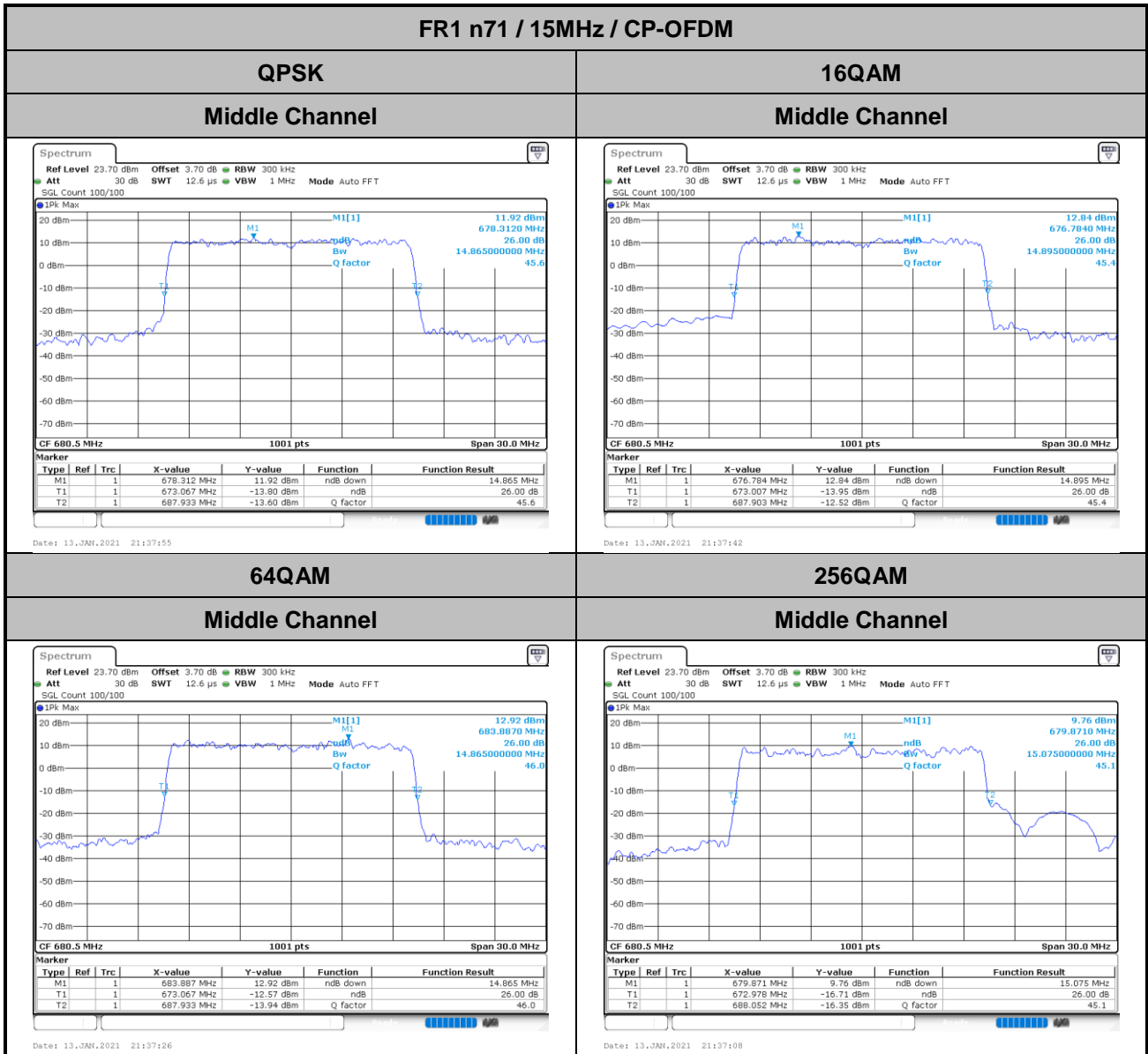
| Mode | FR1 n71 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|-----------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 10MHz | 10MHz | 10MHz | 10MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 9.83 | 9.77 | 9.95 | 9.87 | | | | |

| Mode | FR1 n71 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|-----------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 15MHz | 15MHz | 15MHz | 15MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 14.87 | 14.89 | 14.87 | 15.07 | | | | |

| Mode | FR1 n71 : 26dB BW(MHz) / CP-OFDM | | | | | | | |
|-----------|----------------------------------|-------|-------|--------|--|--|--|--|
| BW | 20MHz | 20MHz | 20MHz | 20MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 19.82 | 19.90 | 19.94 | 19.86 | | | | |









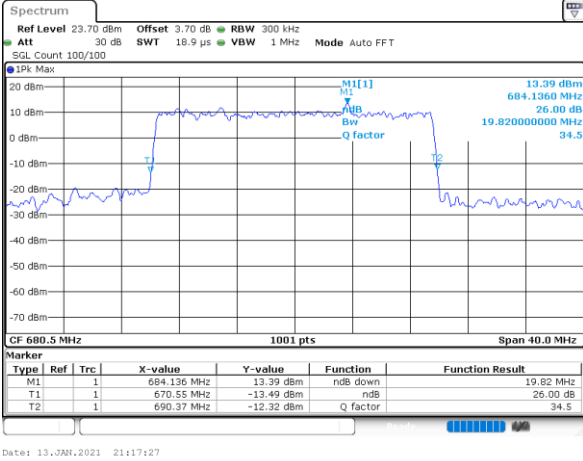
FR1 n71 / 20MHz / CP-OFDM

QPSK

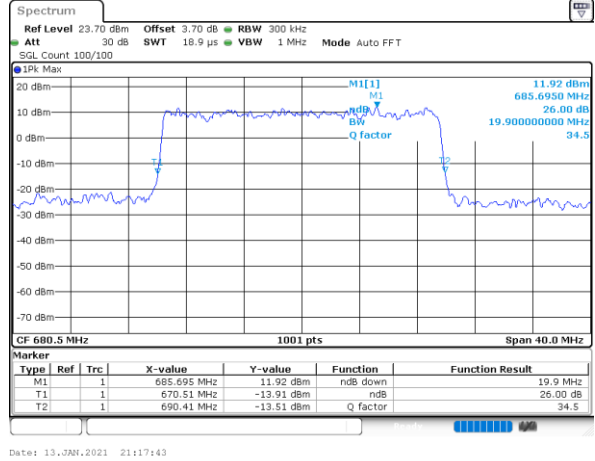
16QAM

Middle Channel

Middle Channel



Date: 13, JAN, 2021 21:17:27



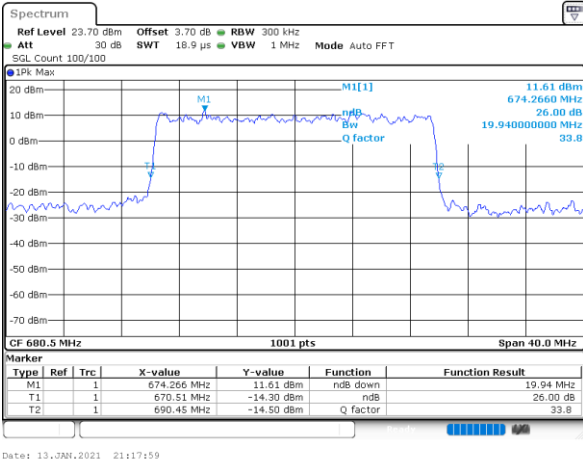
Date: 13, JAN, 2021 21:17:43

64QAM

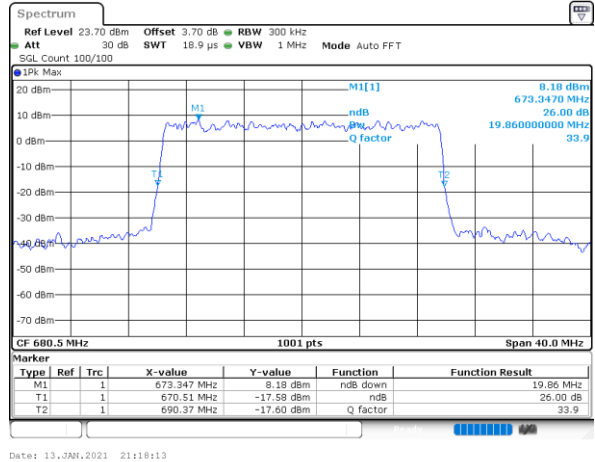
256QAM

Middle Channel

Middle Channel



Date: 13, JAN, 2021 21:17:59



Date: 13, JAN, 2021 21:18:13



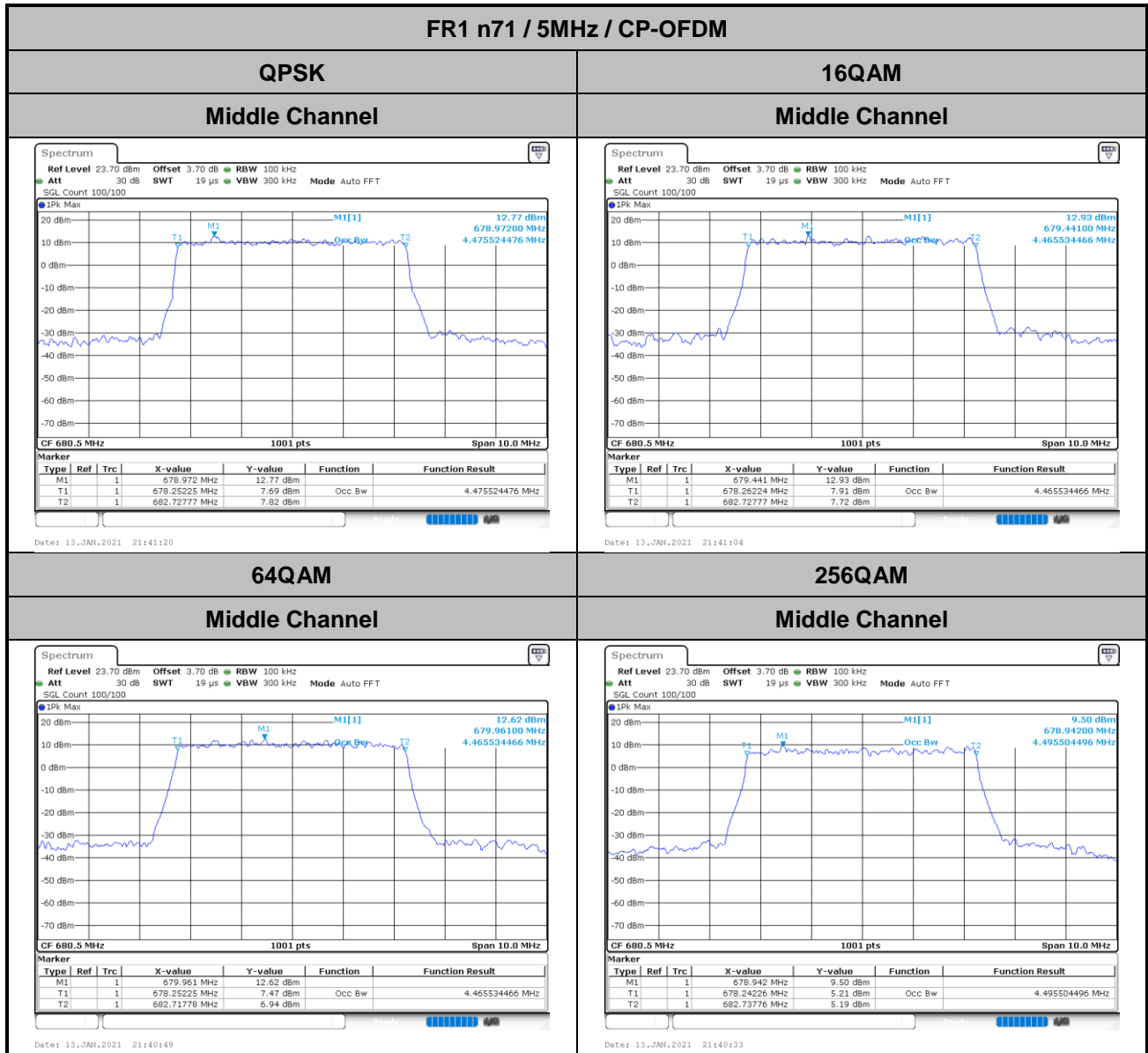
Occupied Bandwidth

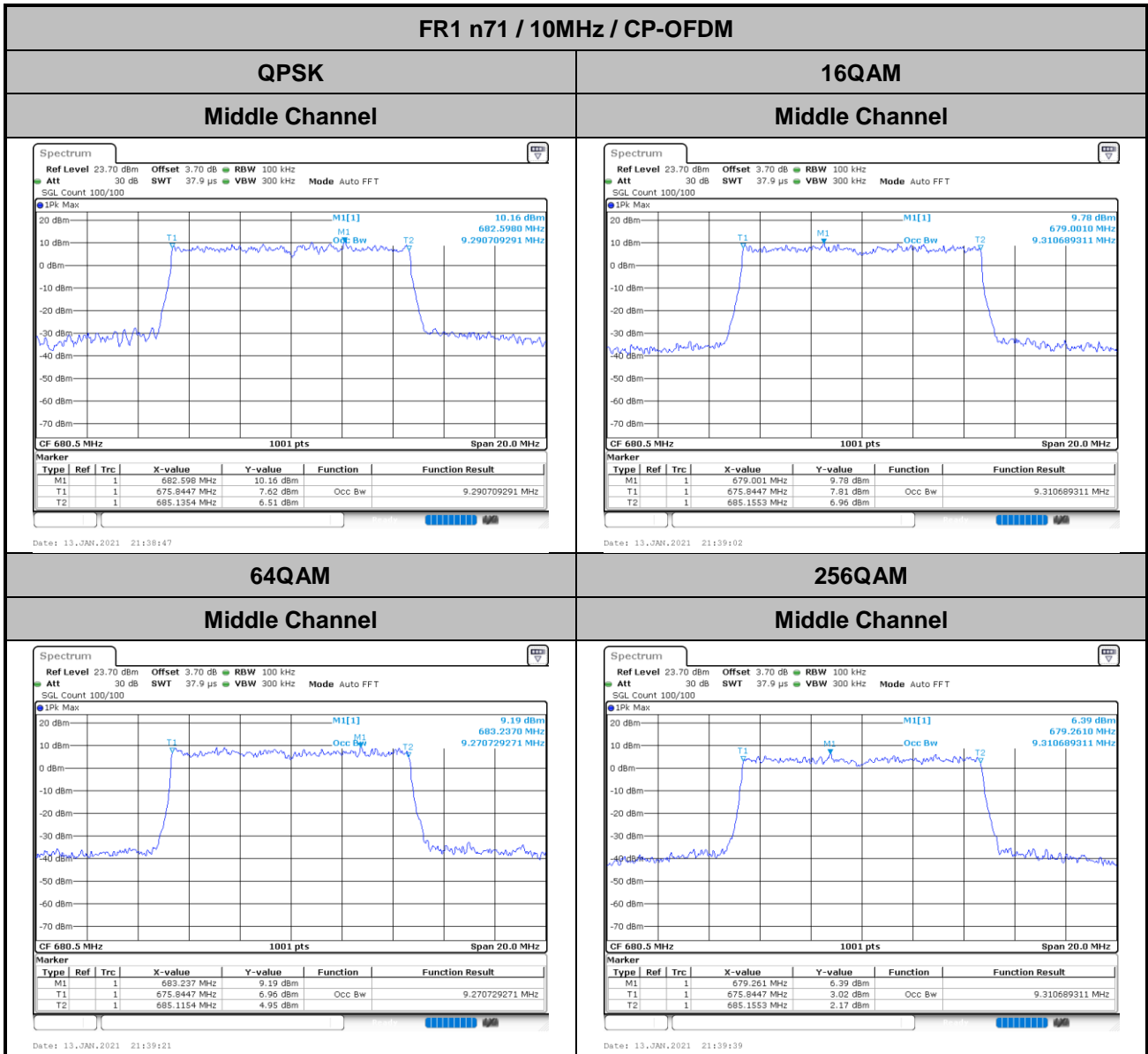
| Mode | FR1 n71 : OBW(MHz) / CP-OFDM | | | | | | | |
|-----------|------------------------------|-------|-------|--------|--|--|--|--|
| BW | 5MHz | 5MHz | 5MHz | 5MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 4.48 | 4.47 | 4.47 | 4.50 | | | | |

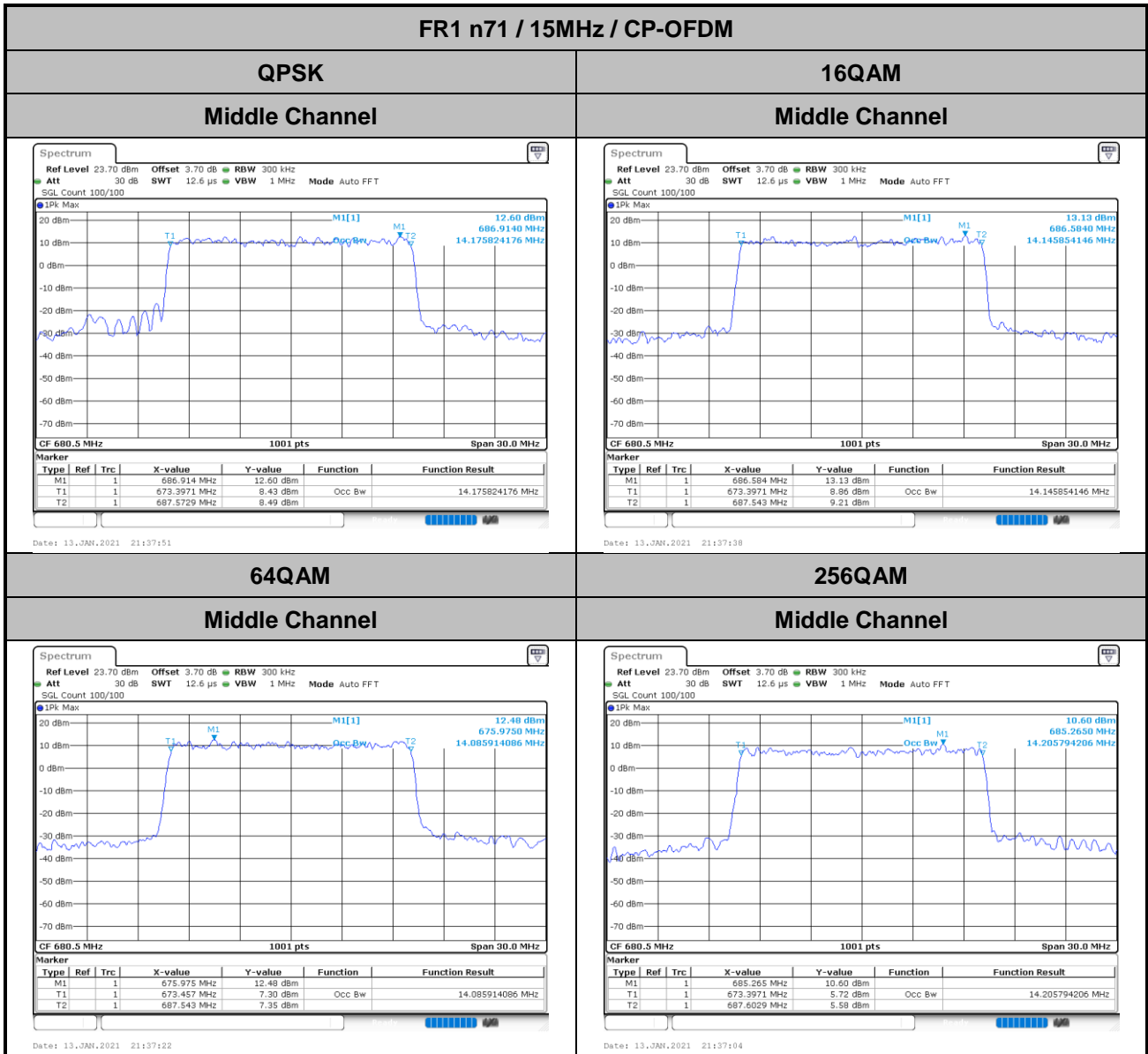
| Mode | FR1 n71 : OBW(MHz) / CP-OFDM | | | | | | | |
|-----------|------------------------------|-------|-------|--------|--|--|--|--|
| BW | 10MHz | 10MHz | 10MHz | 10MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 9.29 | 9.31 | 9.27 | 9.31 | | | | |

| Mode | FR1 n71 : OBW(MHz) / CP-OFDM | | | | | | | |
|-----------|------------------------------|-------|-------|--------|--|--|--|--|
| BW | 15MHz | 15MHz | 15MHz | 15MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 14.18 | 14.15 | 14.09 | 14.21 | | | | |

| Mode | FR1 n71 : OBW(MHz) / CP-OFDM | | | | | | | |
|-----------|------------------------------|-------|-------|--------|--|--|--|--|
| BW | 20MHz | 20MHz | 20MHz | 20MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | | | | |
| Middle CH | 18.98 | 18.98 | 18.98 | 18.94 | | | | |









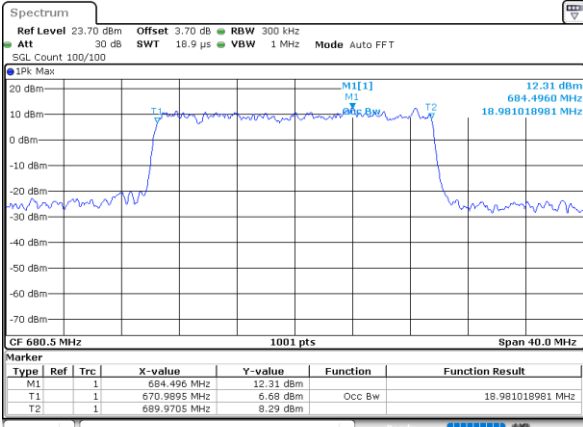
FR1 n71 / 20MHz / CP-OFDM

QPSK

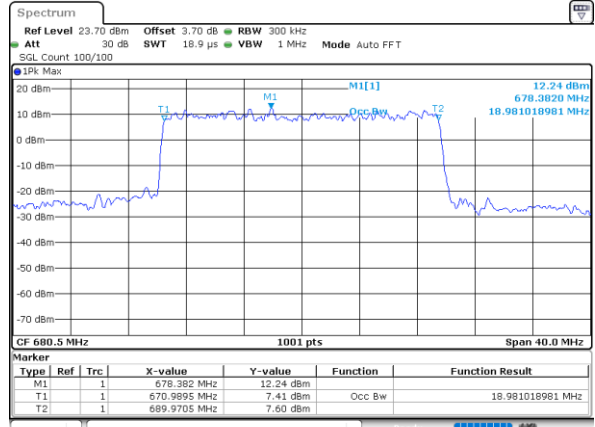
16QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 21:17:23



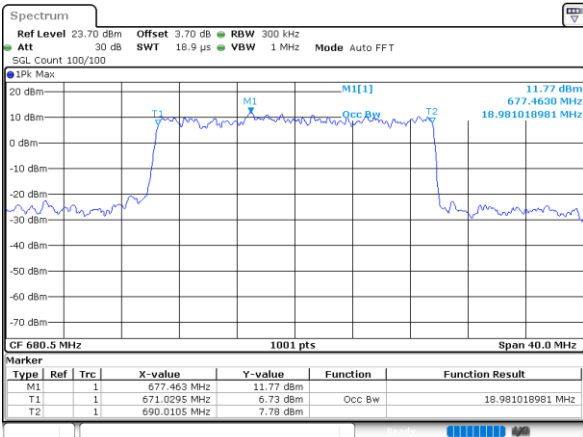
Date: 13.JAN.2021 21:17:38

64QAM

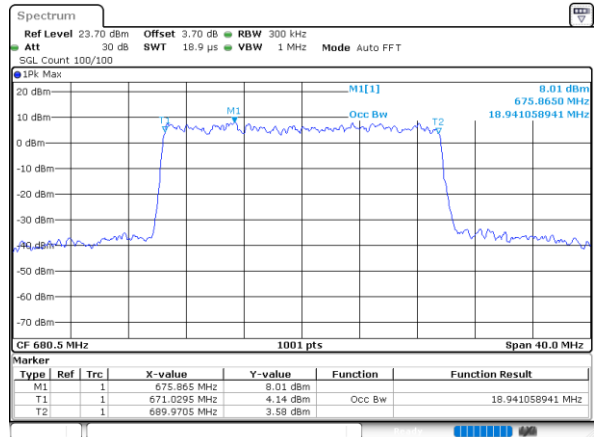
256QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 21:17:54

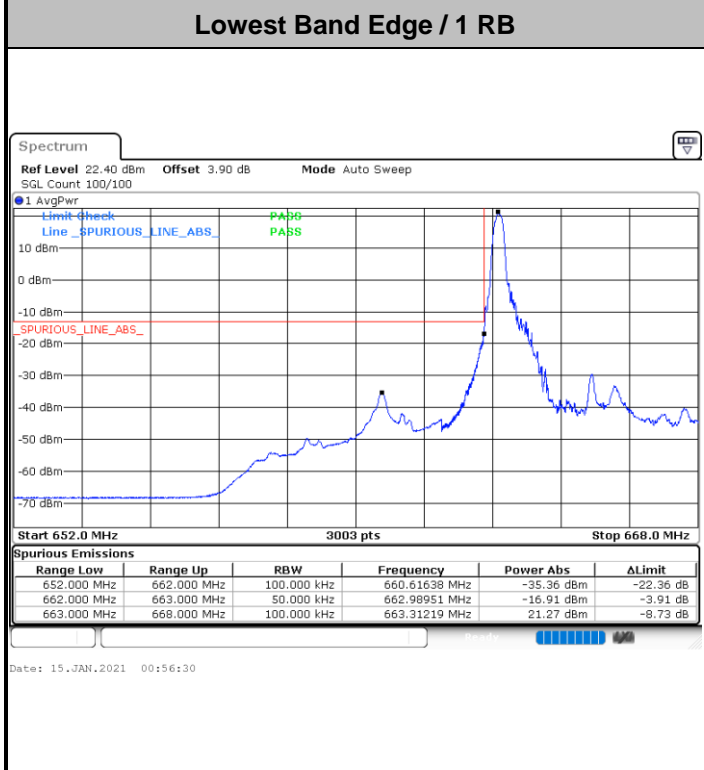


Date: 13.JAN.2021 21:18:08

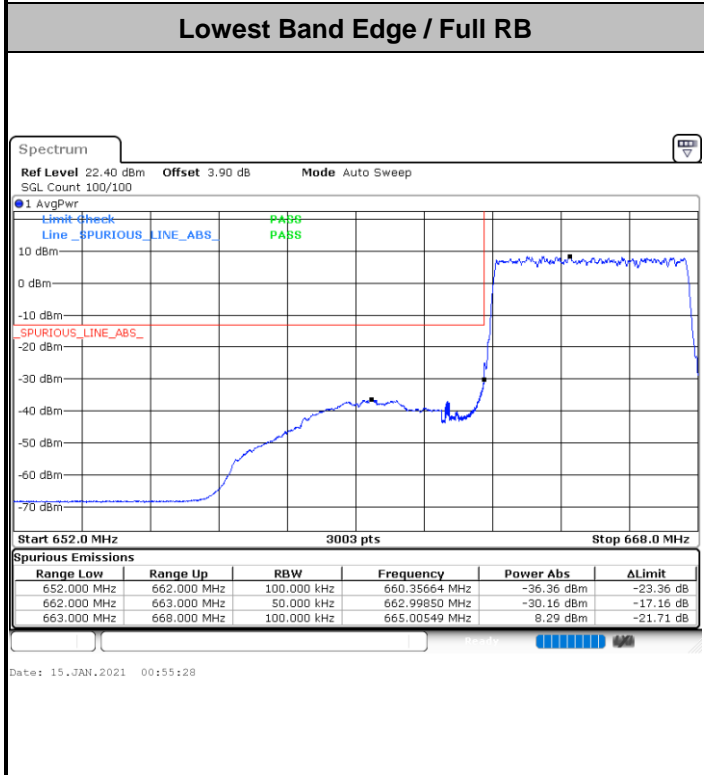


Conducted Band Edge

FR1 n71 / 5MHz / DFT-S OFDM BPSK



Channel Power < -13dBm Pass



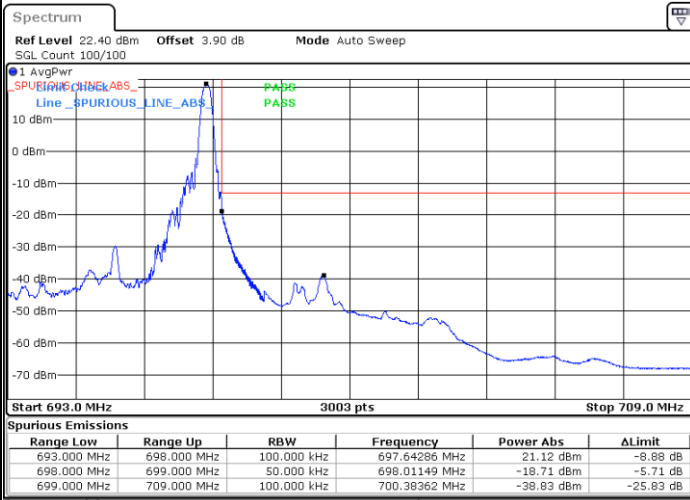
Channel Power < -13dBm Pass



FR1 n71 / 5MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

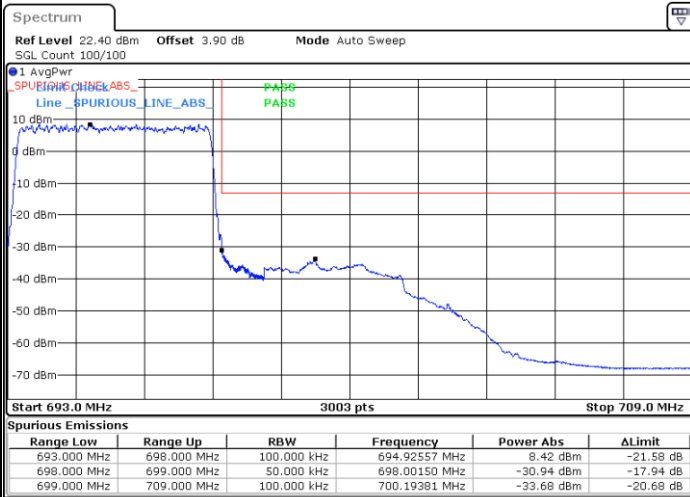
Channel Power < -13dBm Pass



Date: 15. JAN. 2021 01:19:52

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



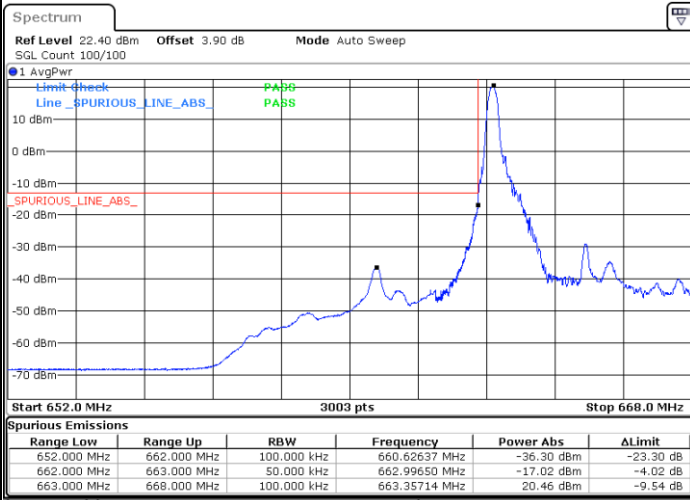
Date: 15. JAN. 2021 01:12:19



FR1 n71 / 5MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

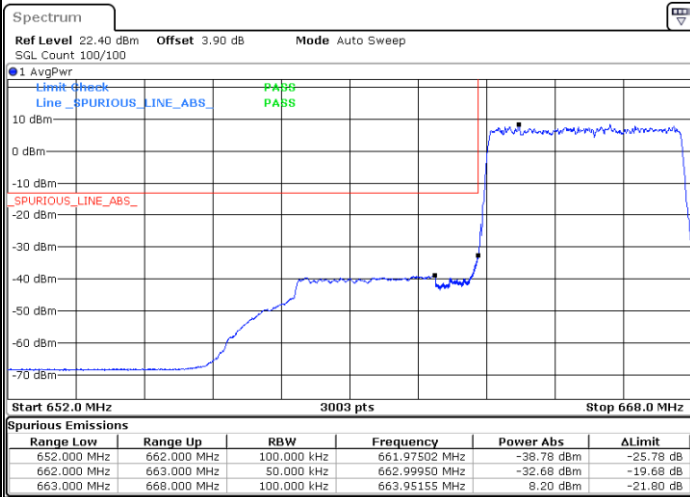
Channel Power < -13dBm Pass



Date: 15. JAN. 2021 00:57:31

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



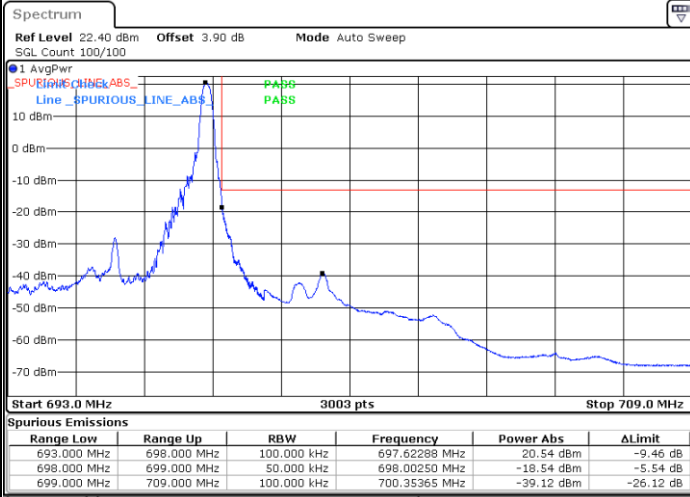
Date: 15. JAN. 2021 00:54:42



FR1 n71 / 5MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

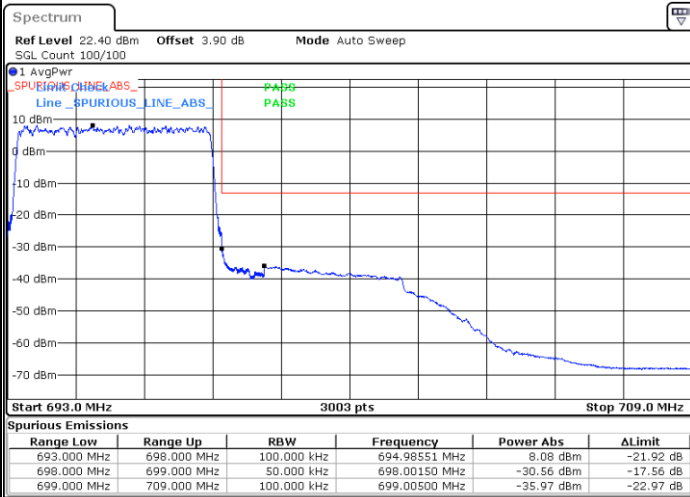
Channel Power < -13dBm Pass



Date: 15.JAN.2021 01:19:06

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



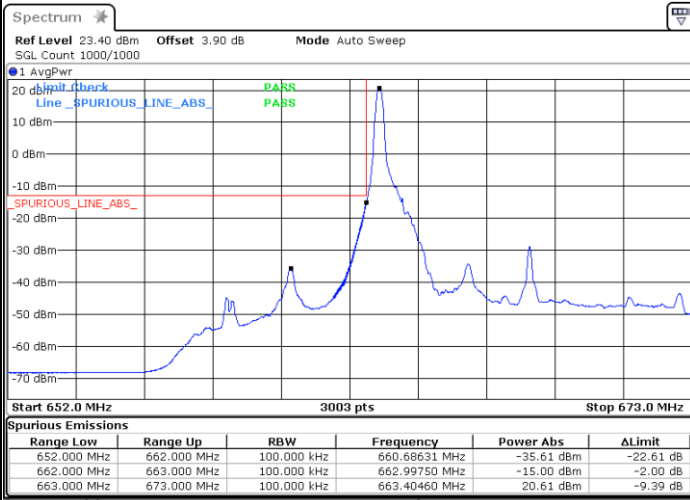
Date: 15.JAN.2021 01:17:13



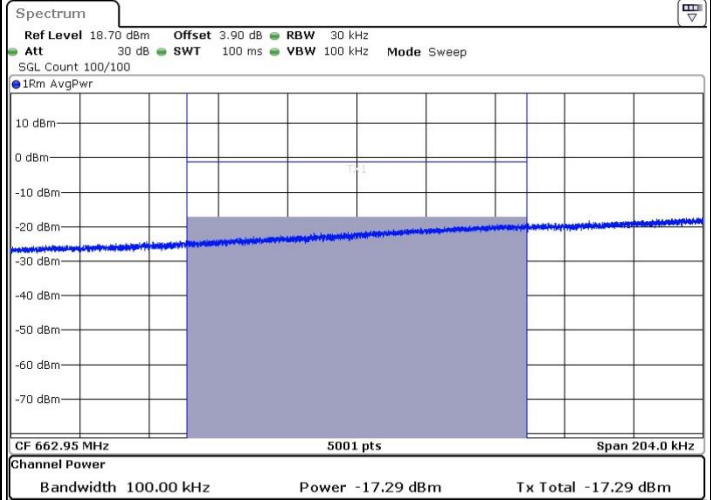
FR1 n71 / 10MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



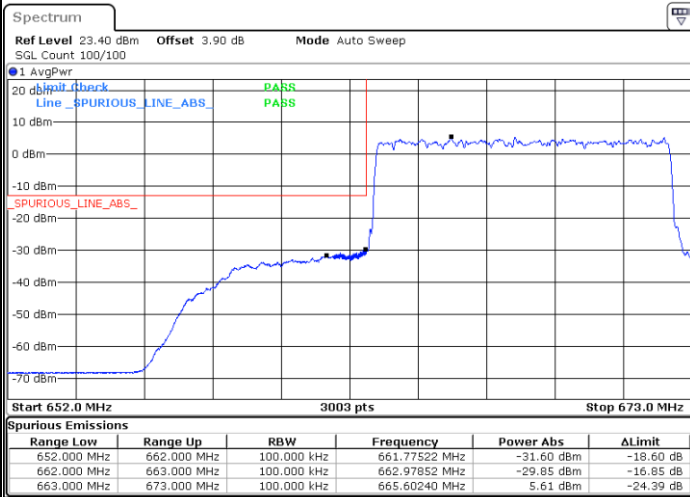
Date: 15.JAN.2021 00:20:29



Date: 15.JAN.2021 00:29:35

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 15.JAN.2021 00:30:54

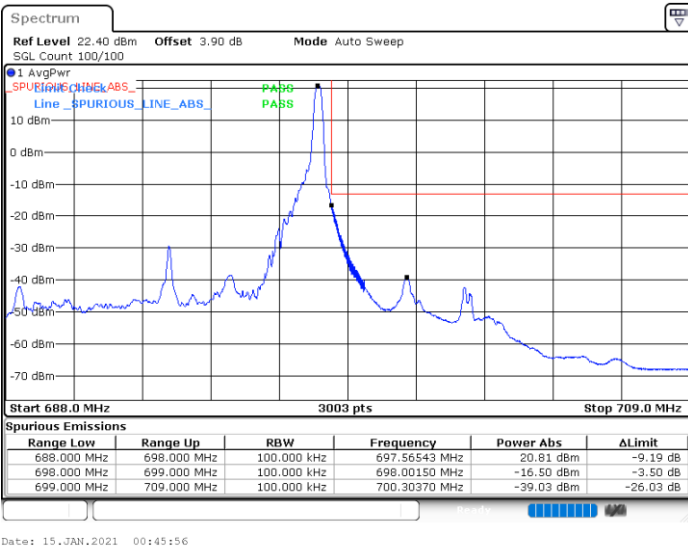
/



FR1 n71 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

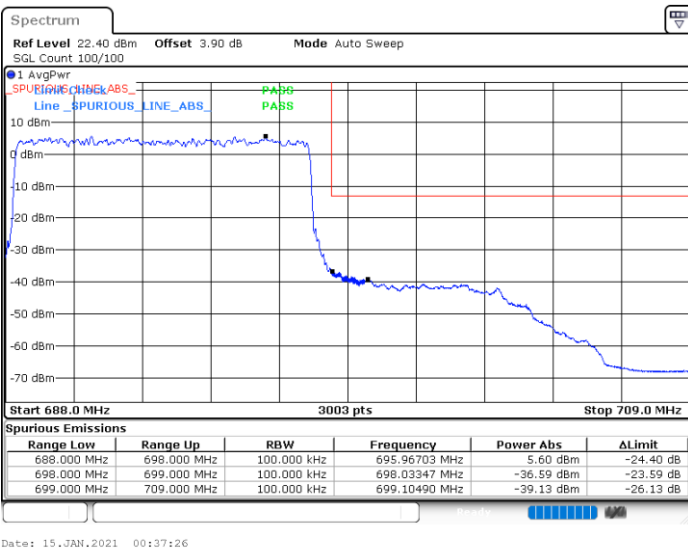
Channel Power < -13dBm Pass



Date: 15. JAN. 2021 00:45:56

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



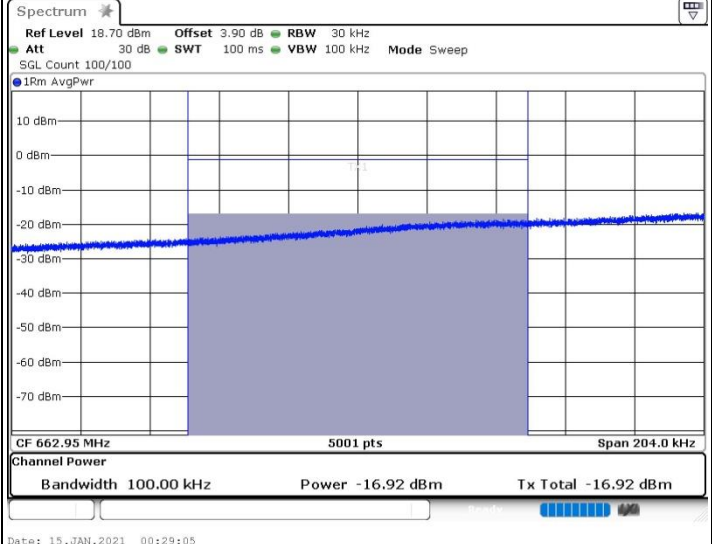
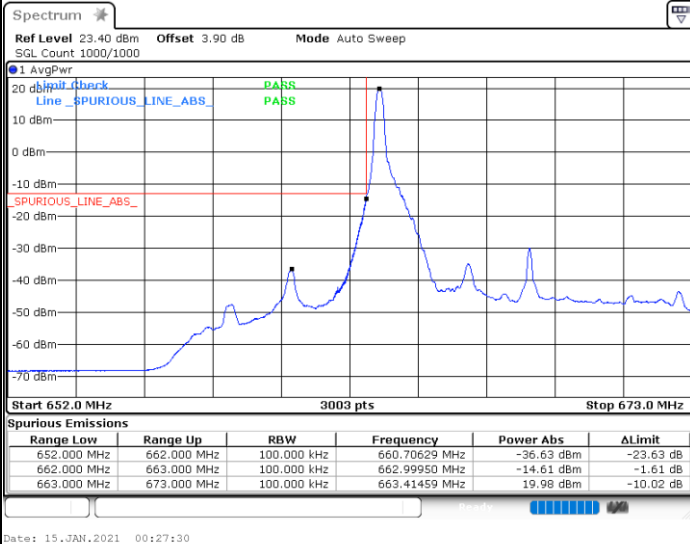
Date: 15. JAN. 2021 00:37:26



FR1 n71 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

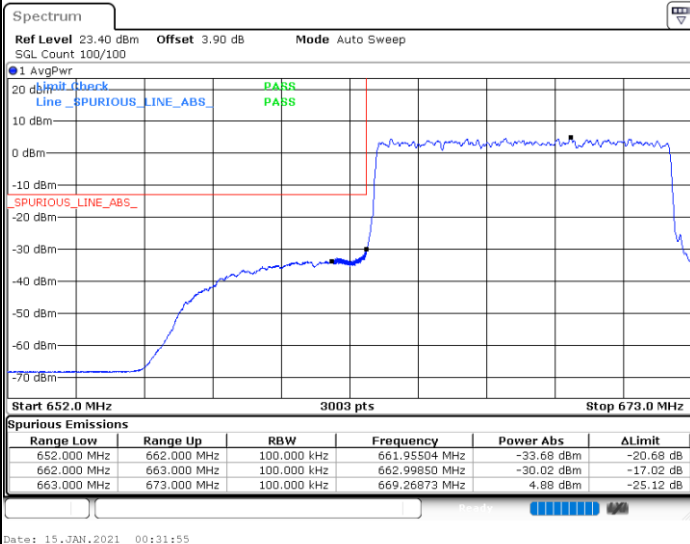


Date: 15.JAN.2021 00:27:30

Date: 15.JAN.2021 00:29:05

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 15.JAN.2021 00:31:55

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