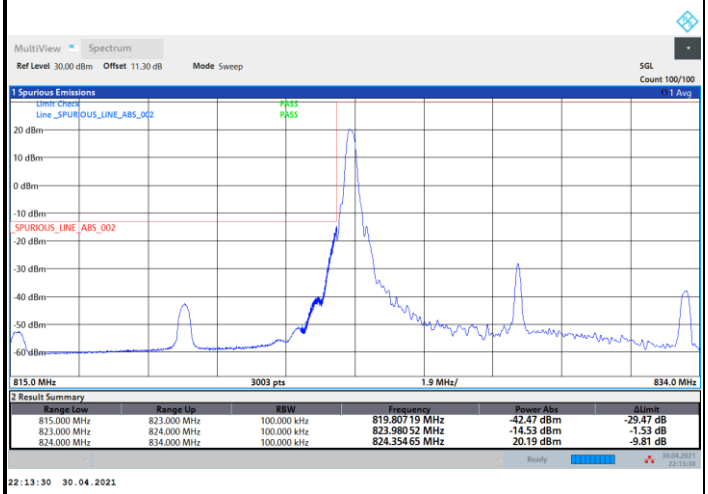
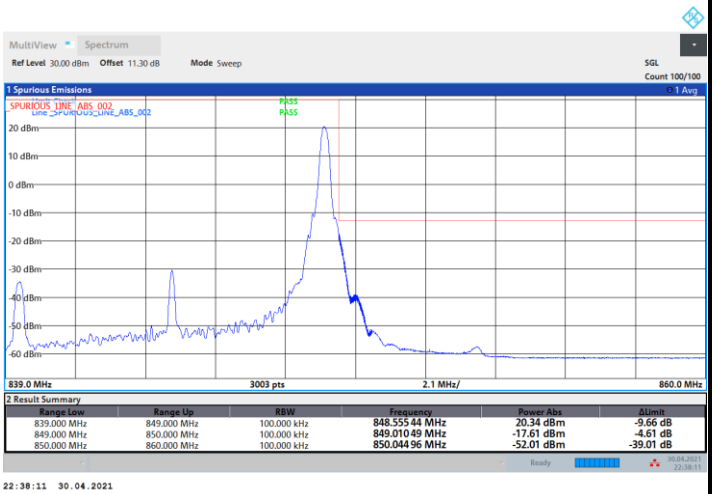
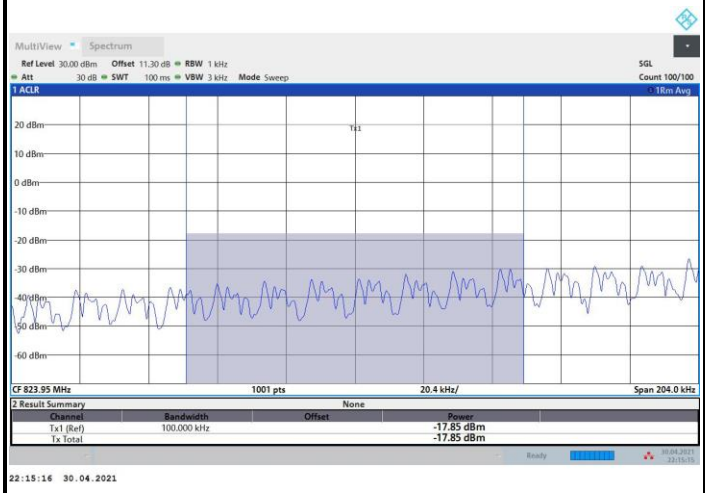
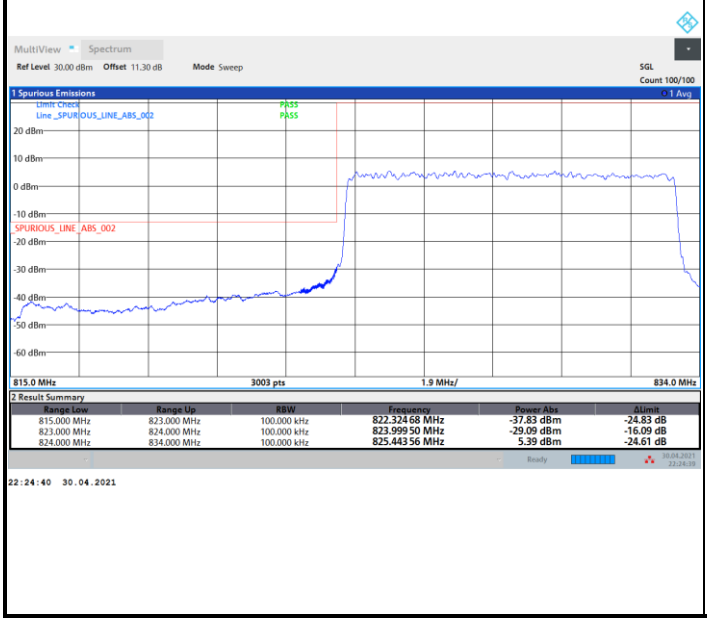
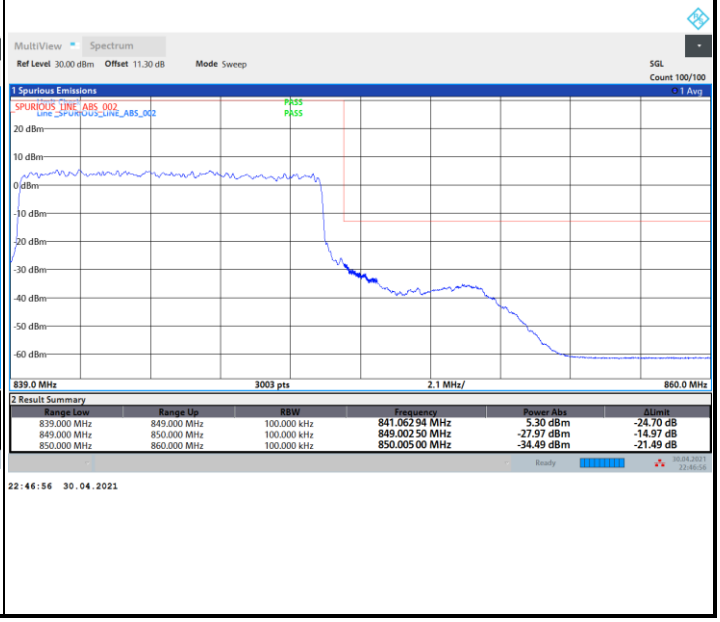
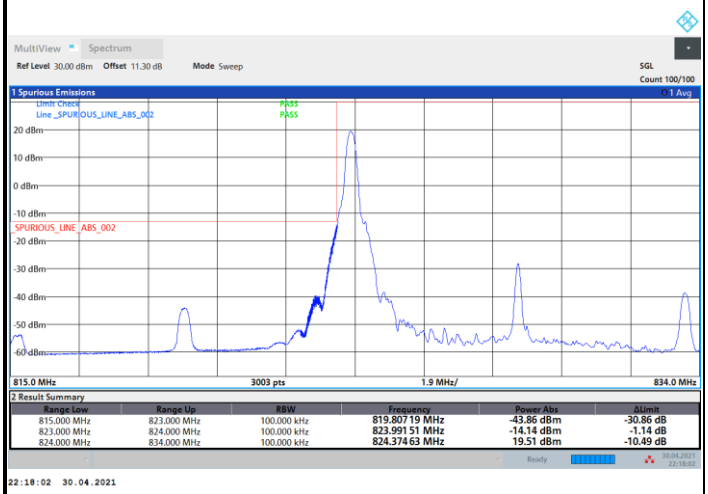
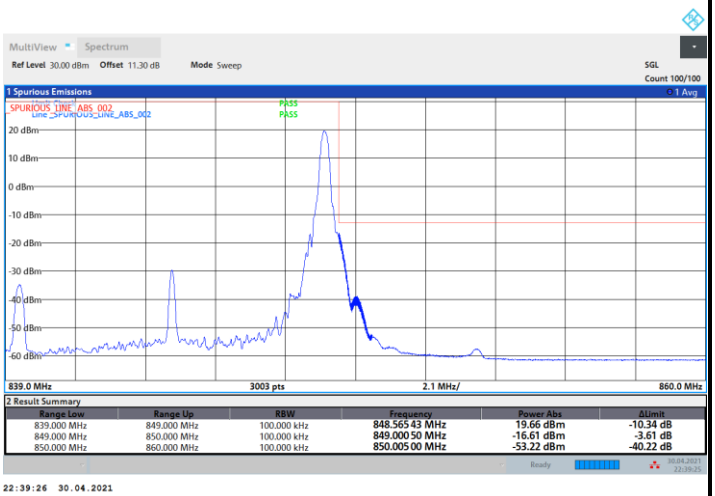
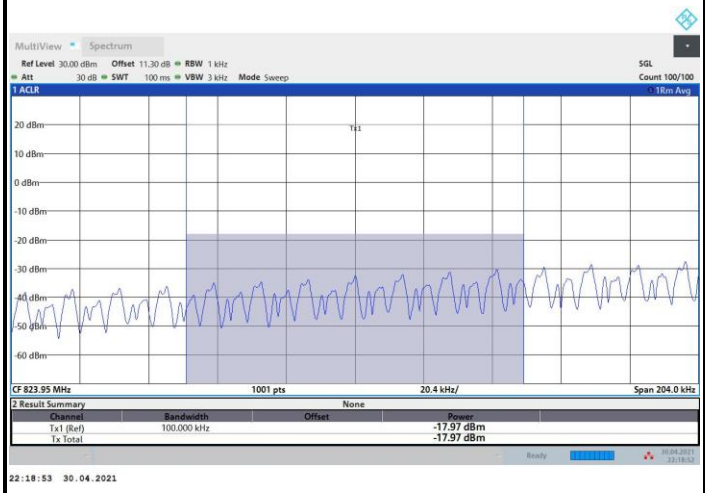
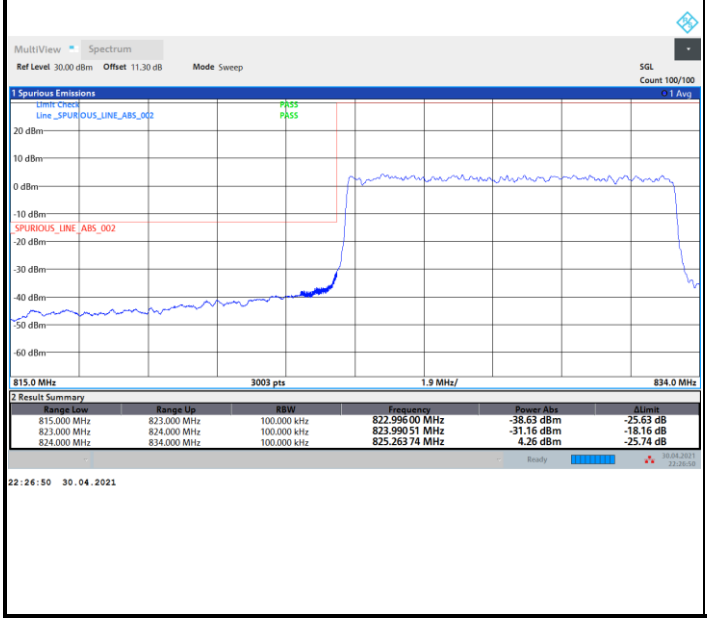
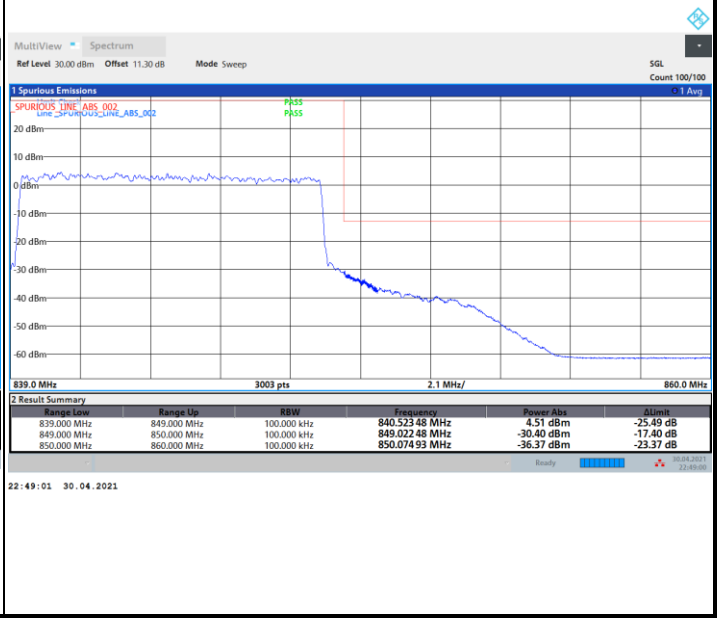
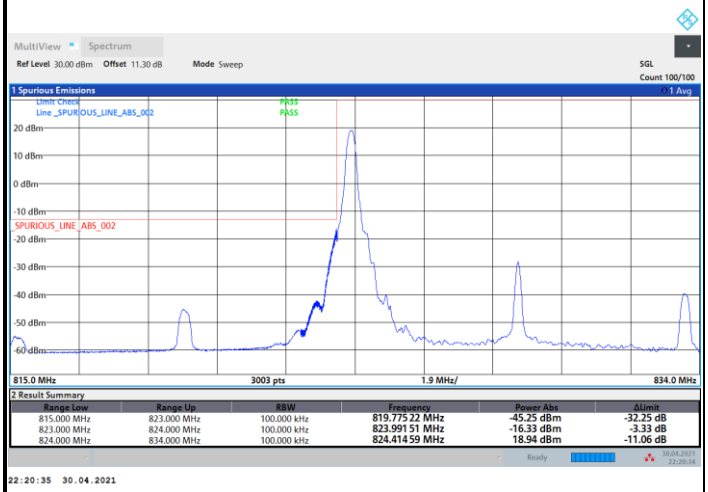
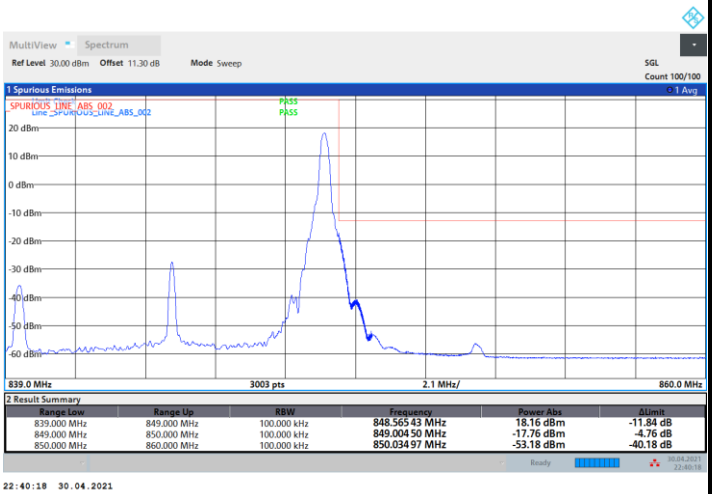
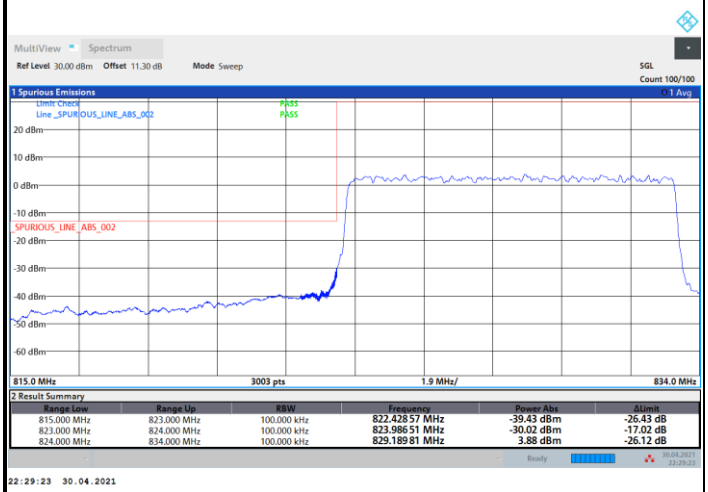
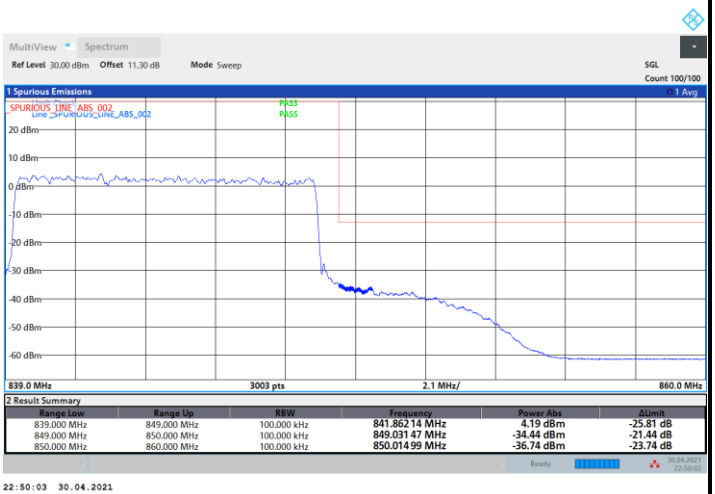
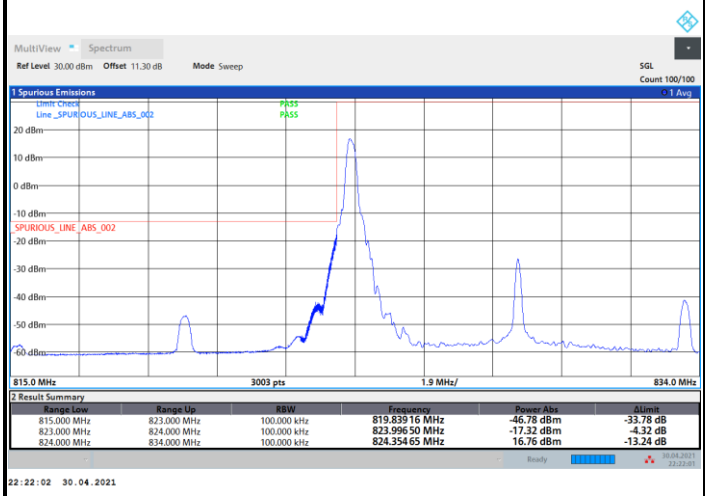
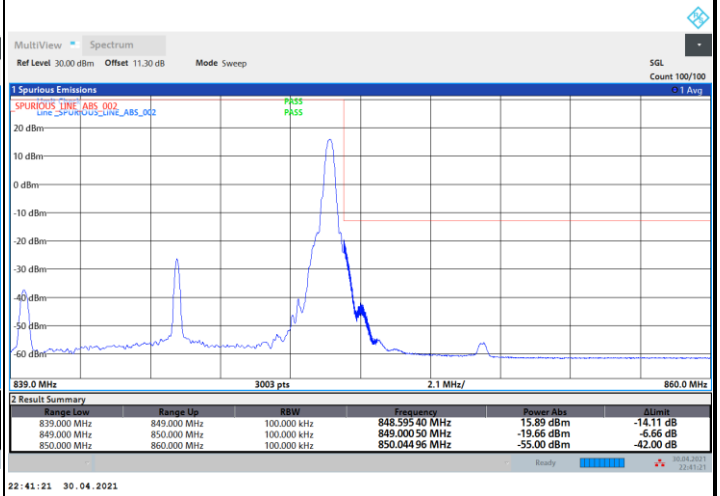
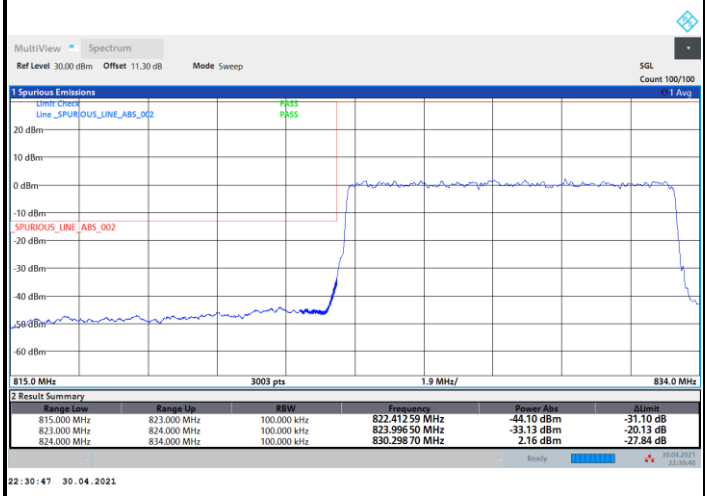
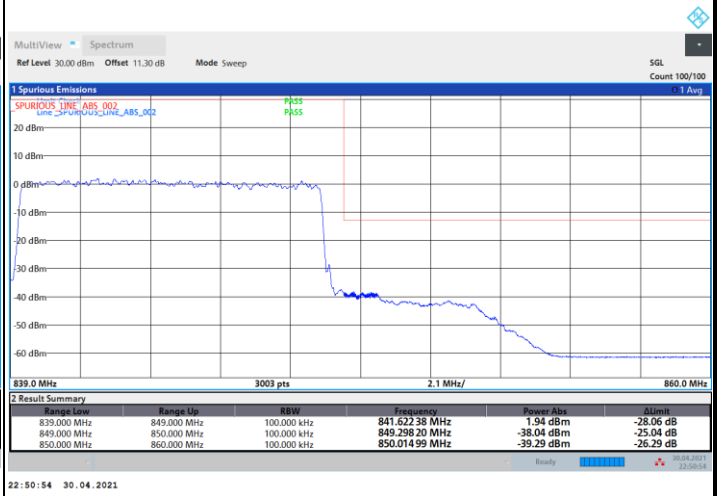
| FR1 n5 / 10MHz / DFT-s-OFDM / QPSK | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Channel power -13 dBm > -17.85 dBm (Pass)** | |
|  | |

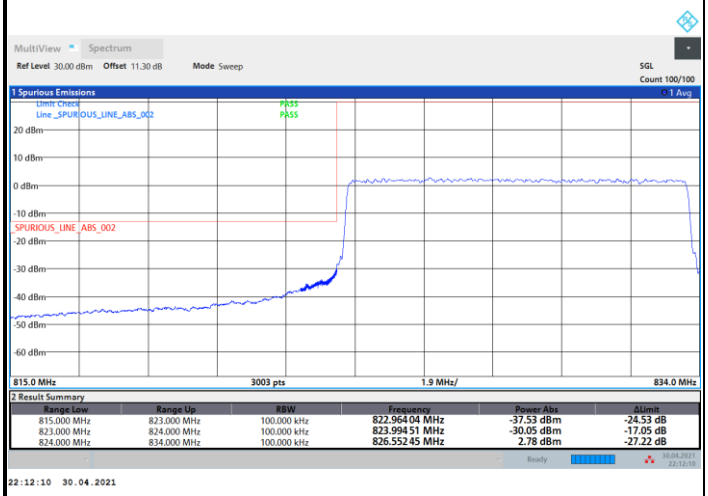
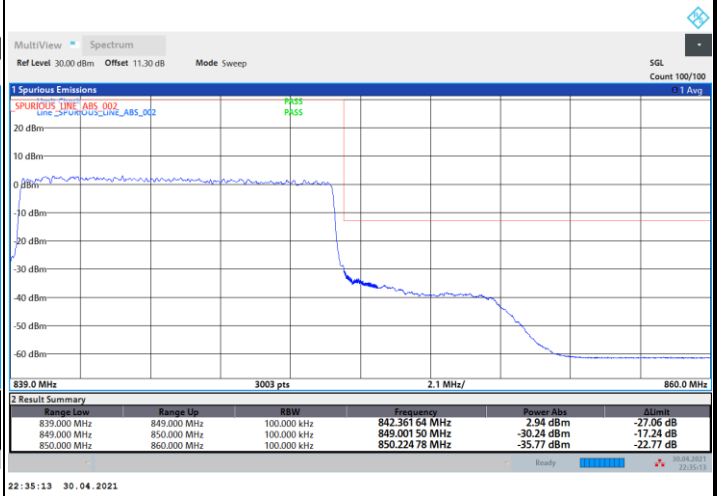
| FR1 n5 / 10MHz / DFT-s-OFDM / QPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

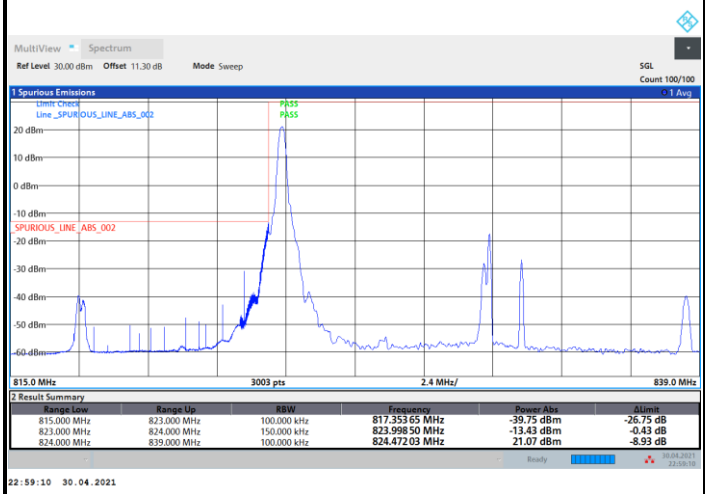
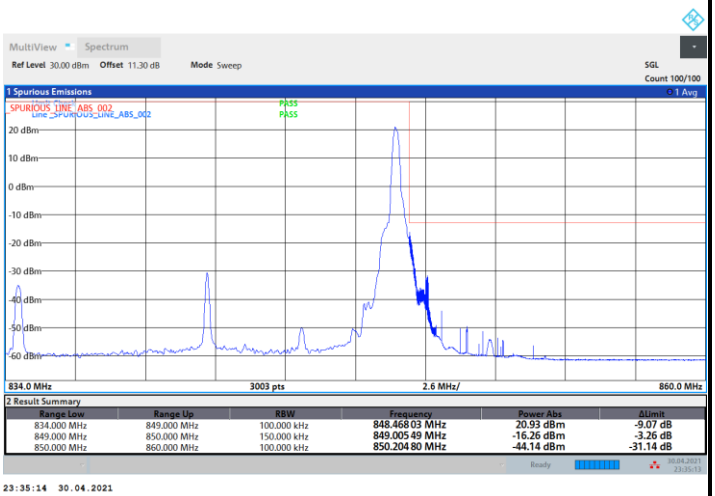
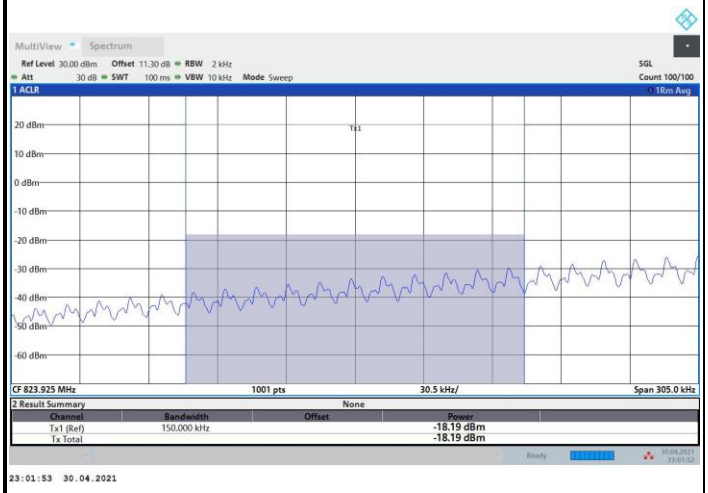
| FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Channel power -13 dBm > --17.97 dBm (Pass)** | |
|  | |

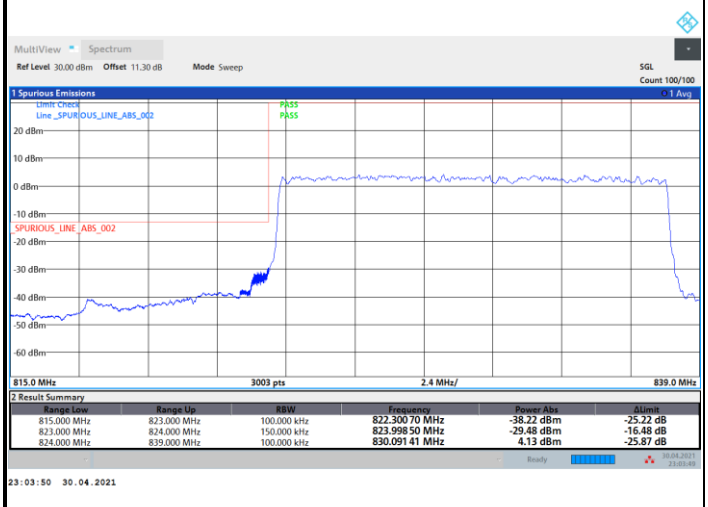
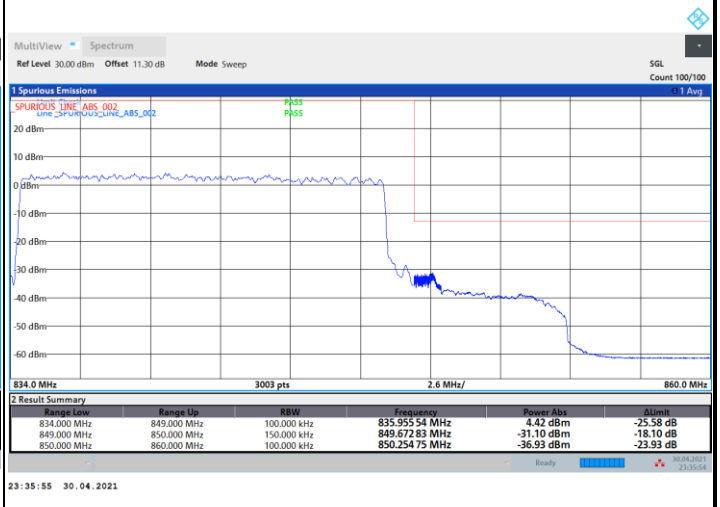
| FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

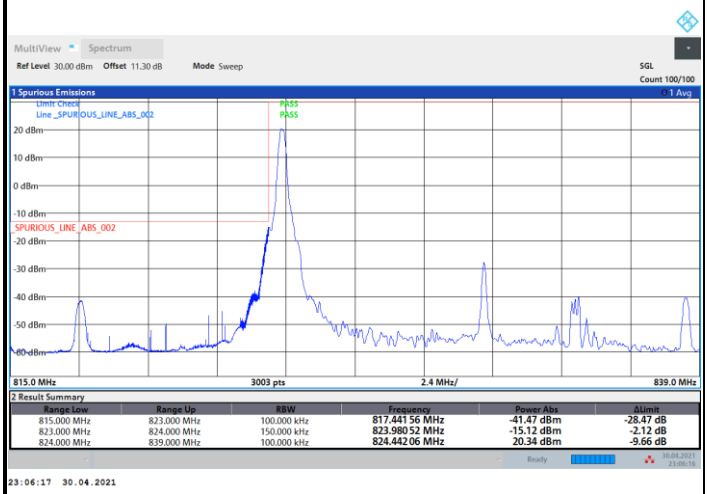
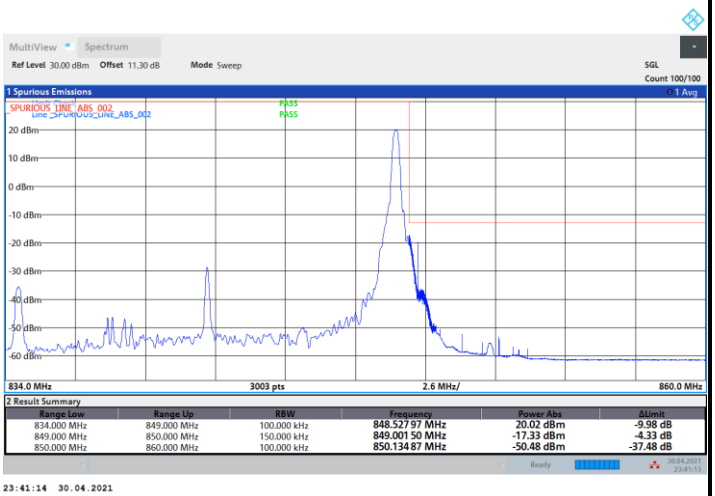
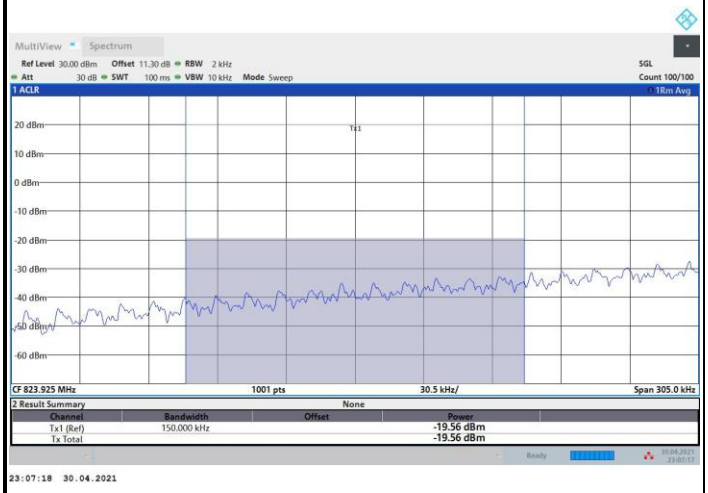
| FR1 n5 / 10MHz / DFT-s-OFDM / 64QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

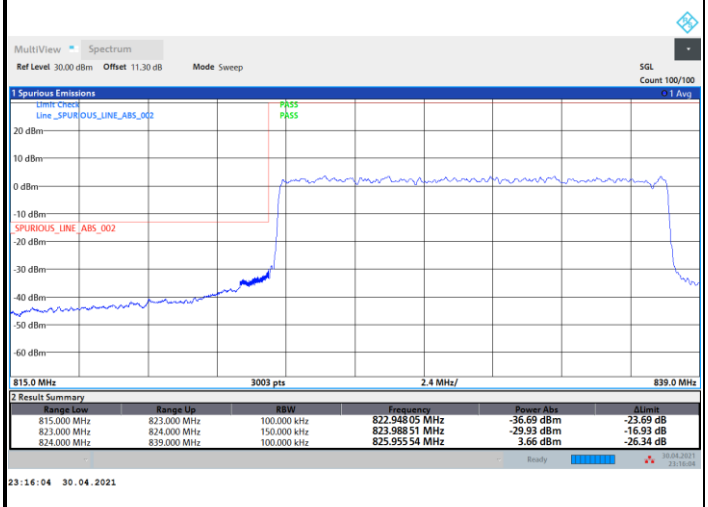
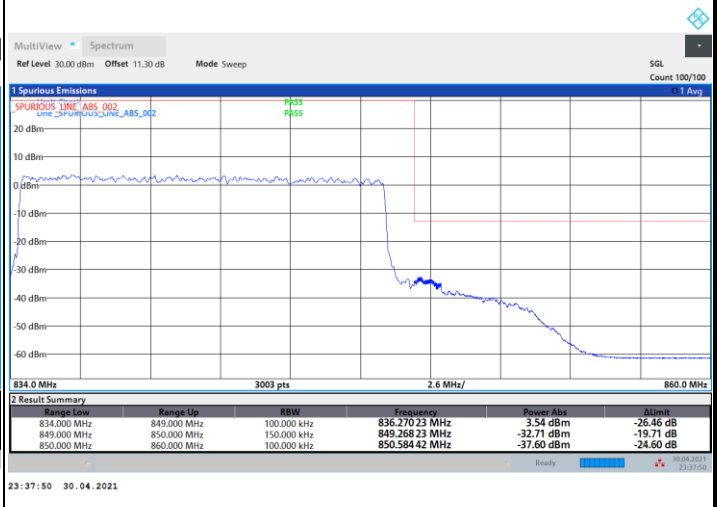
| FR1 n5 / 10MHz / DFT-s-OFDM / 256QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

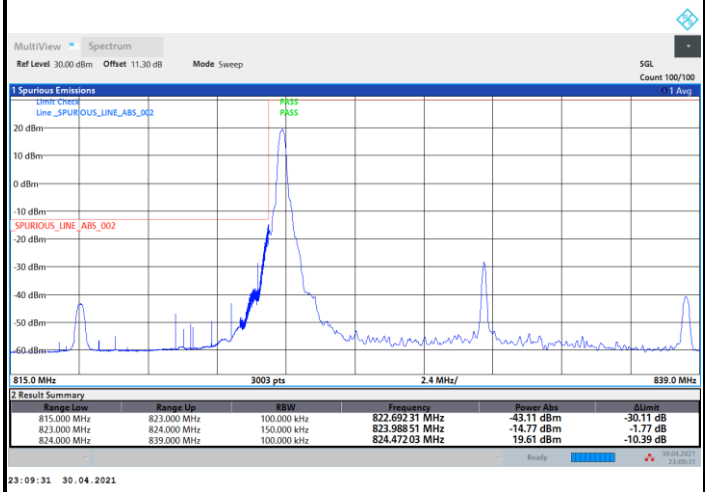
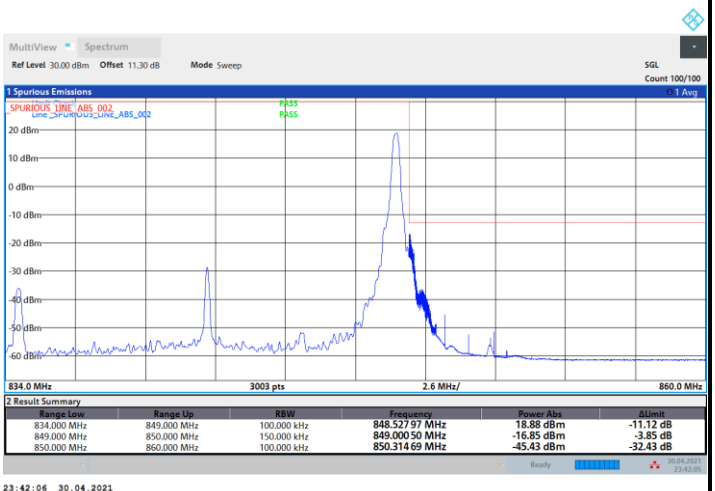
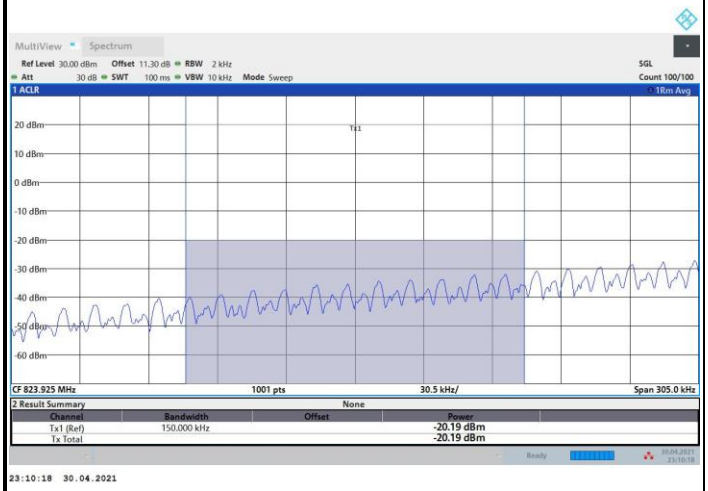
| FR1 n5 / 10MHz / CP OFDM / QPSK / Full RB | |
|---|---|
| **Lowest Band Edge** | **Highest Band Edge** |
|  |  |

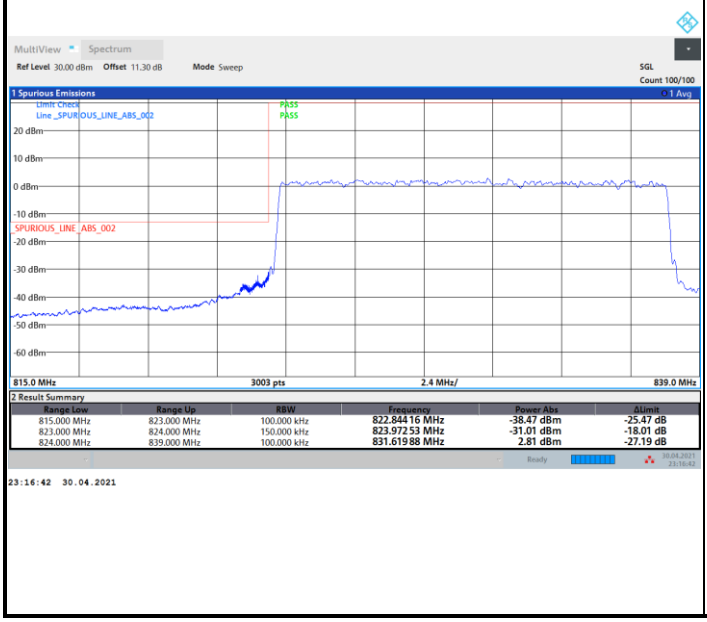
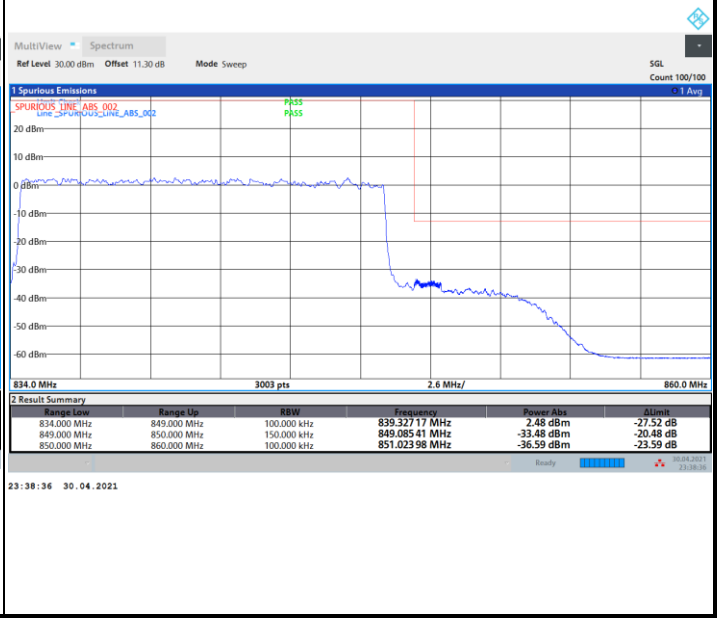
| FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Channel power -13 dBm > -18.19 dBm (Pass)** | |
|  | |

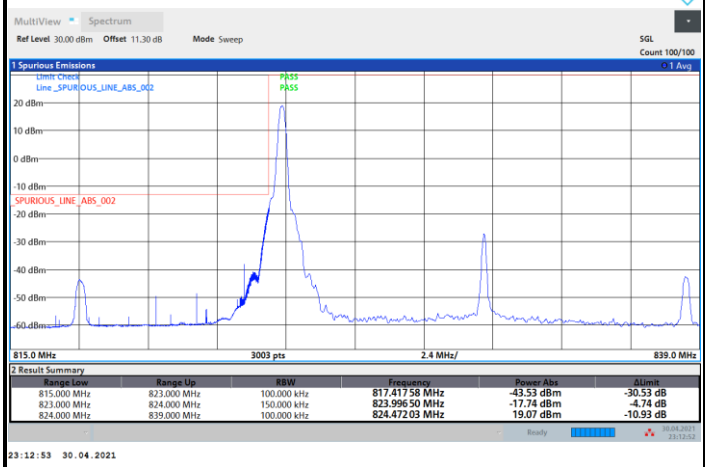
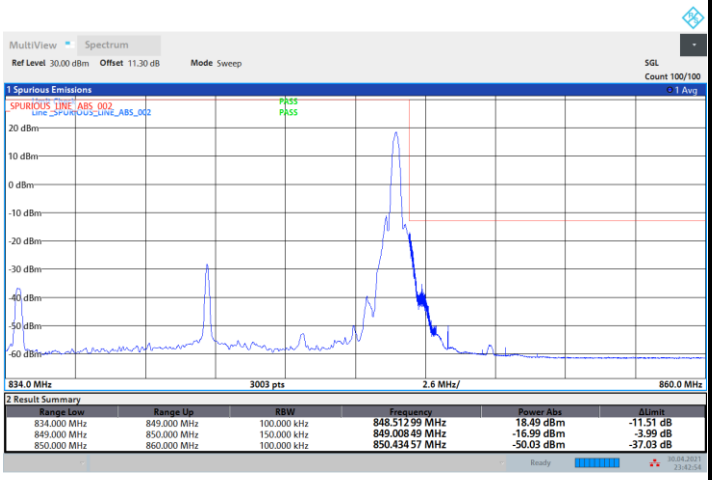
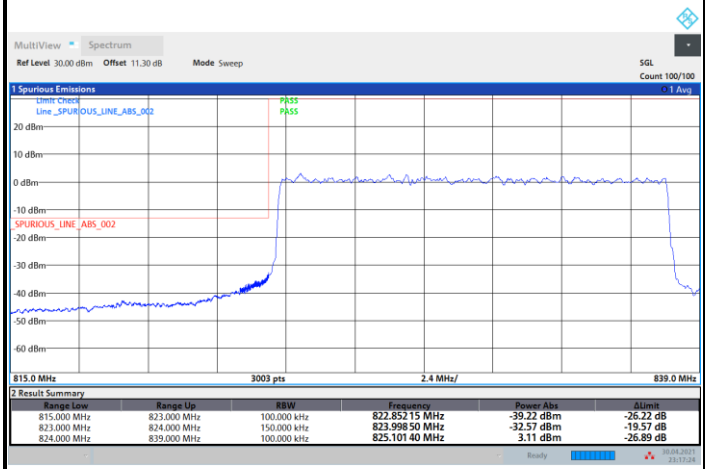
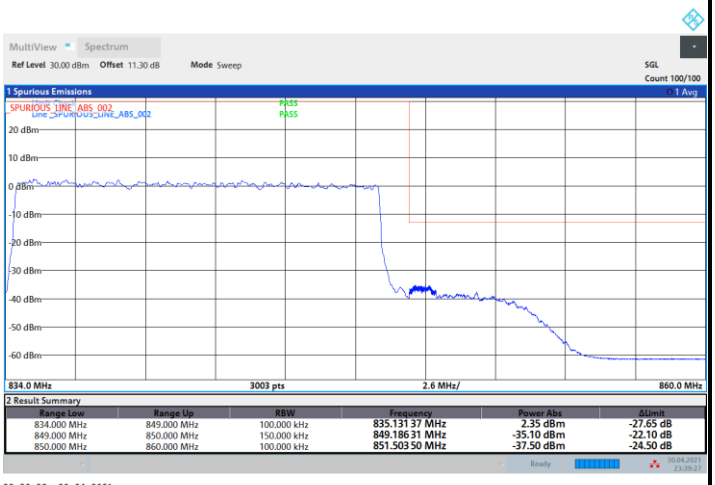
| FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

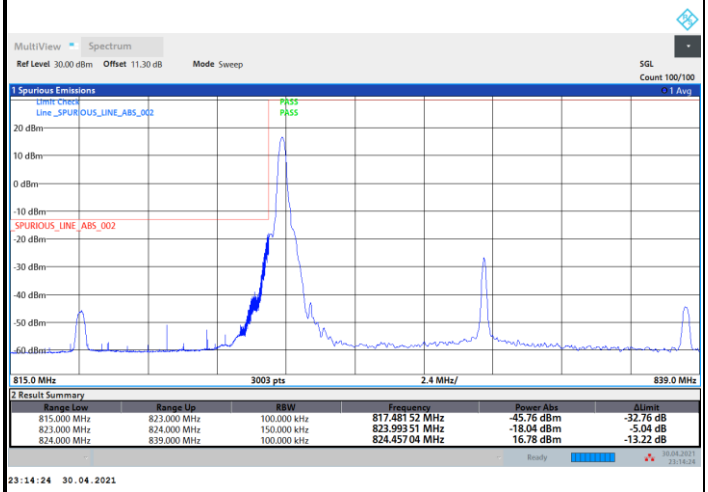
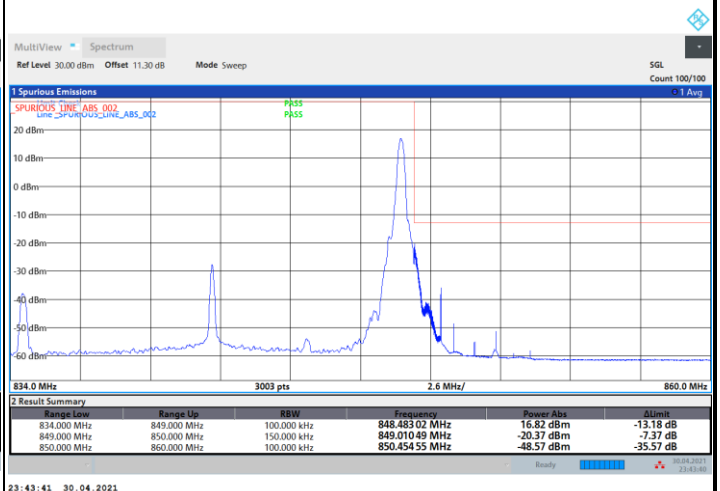
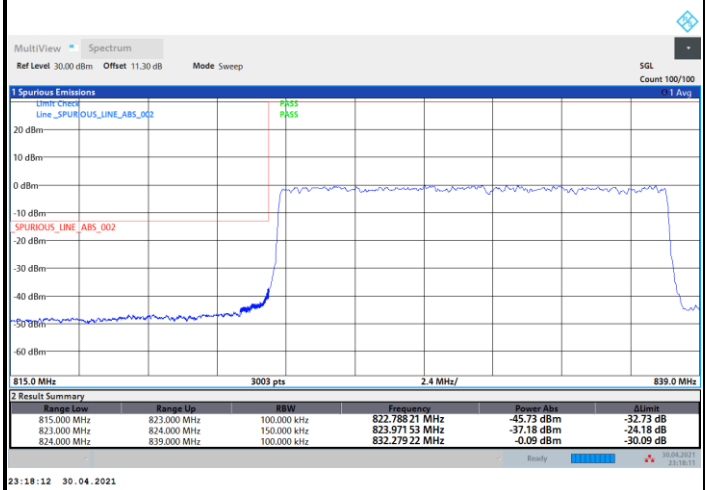
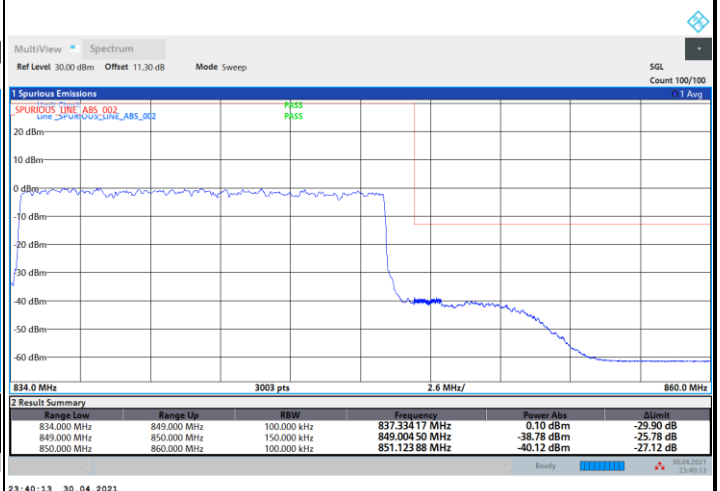
| FR1 n5 / 15MHz / DFT-s-OFDM / QPSK | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Channel power -13 dBm > -19.56 dBm (Pass)** | |
|  | |

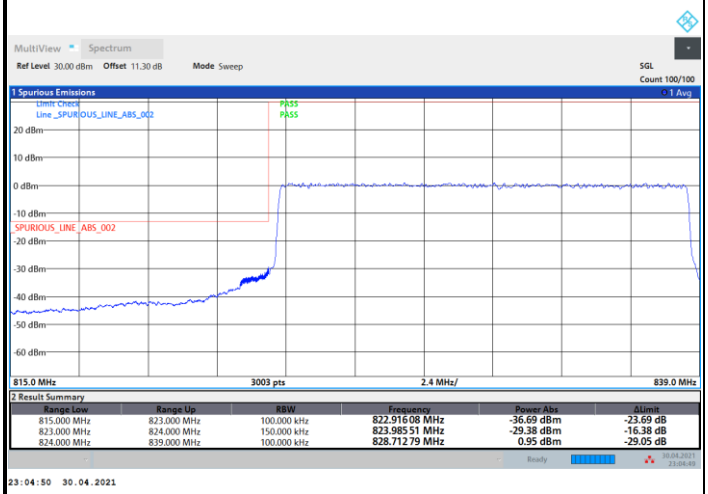
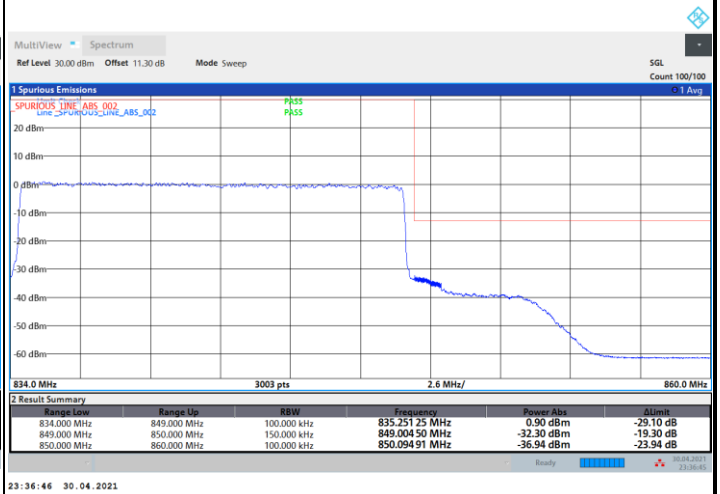
| FR1 n5 / 15MHz / DFT-s-OFDM / QPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

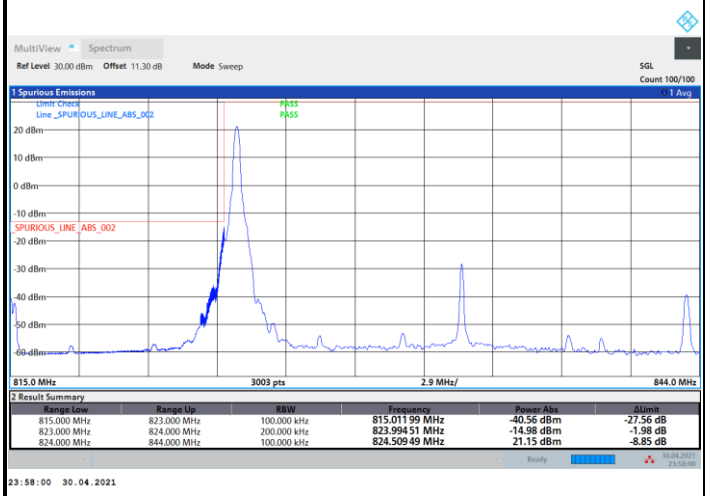
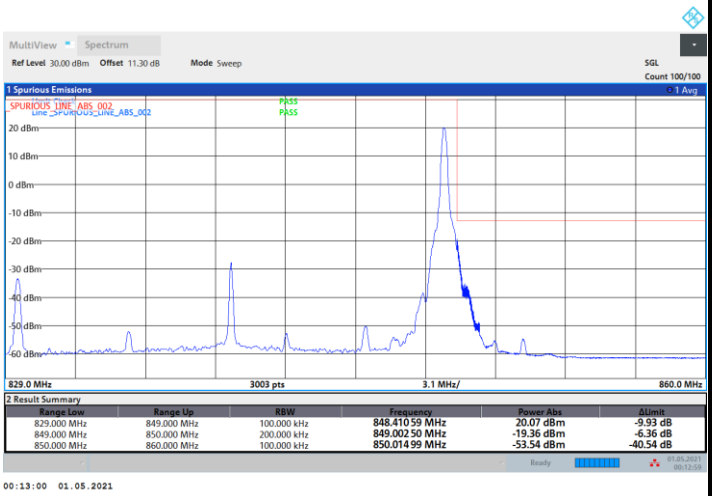
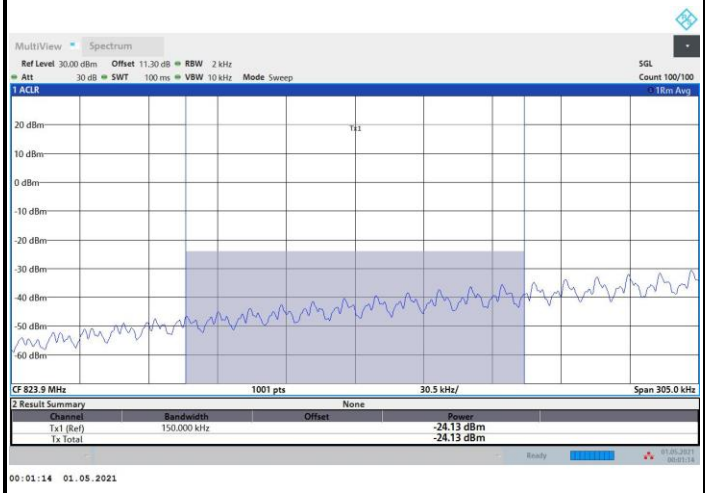
| FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Channel power -13 dBm > -20.19 dBm (Pass)** | **N/A** |
|  | |

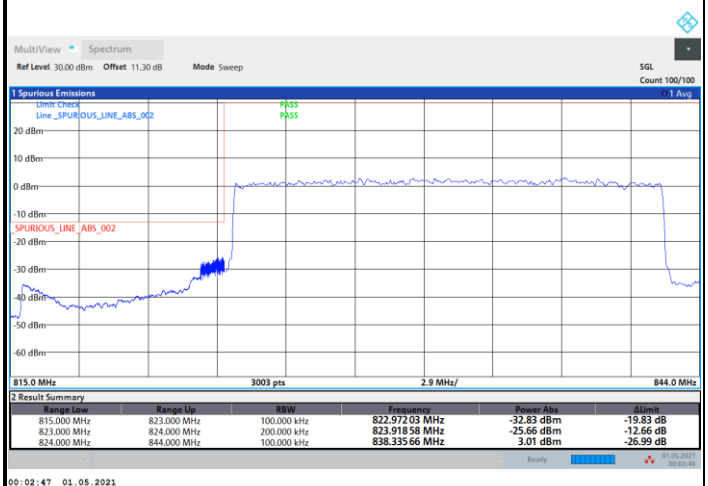
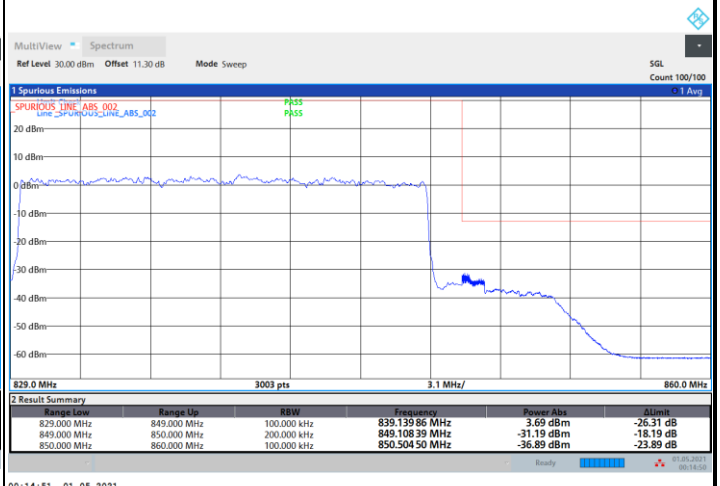
| FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

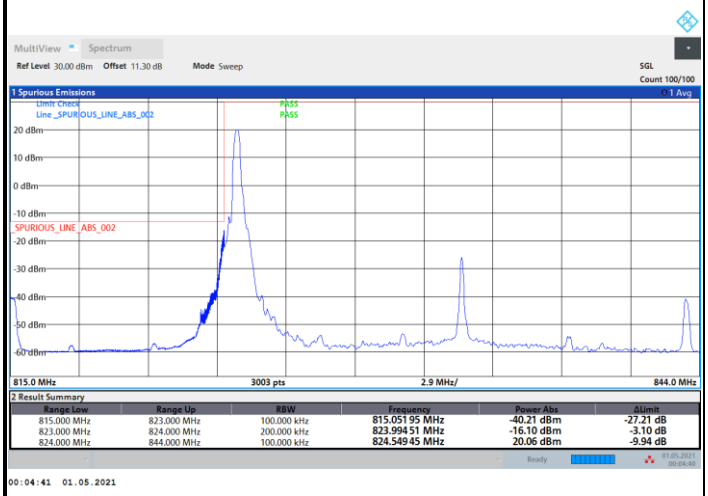
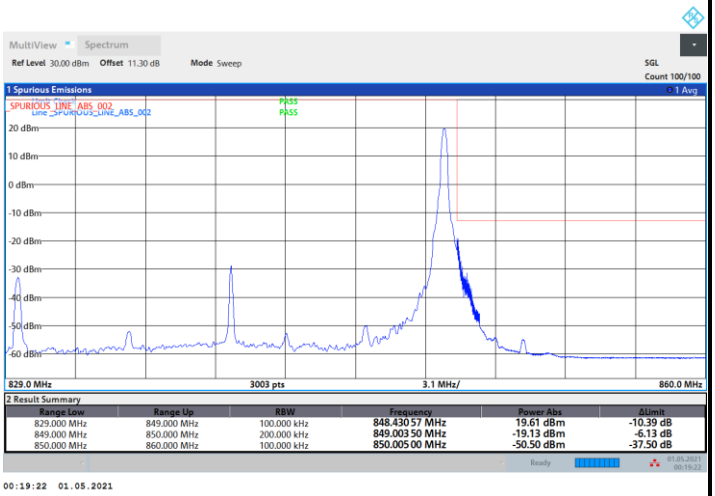
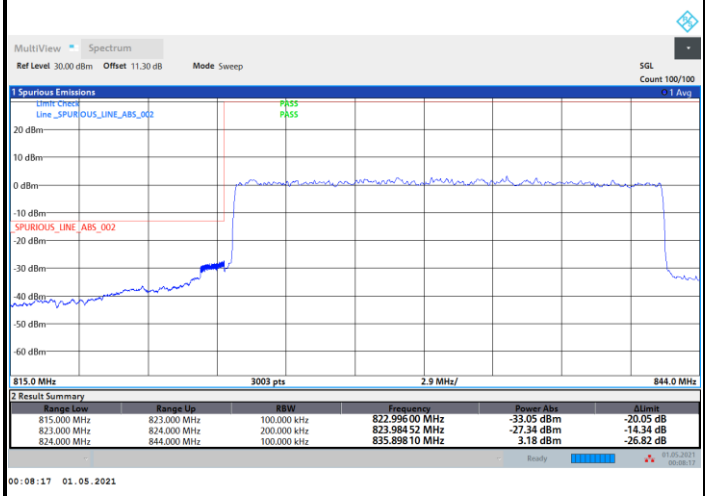
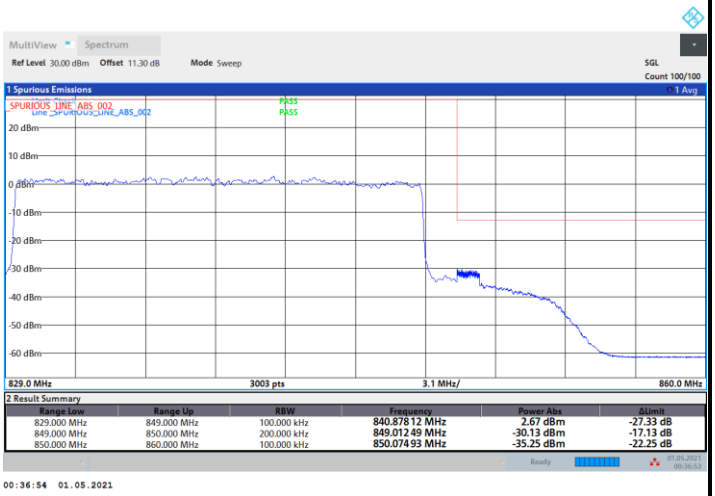
| FR1 n5 / 15MHz / DFT-s-OFDM / 64QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

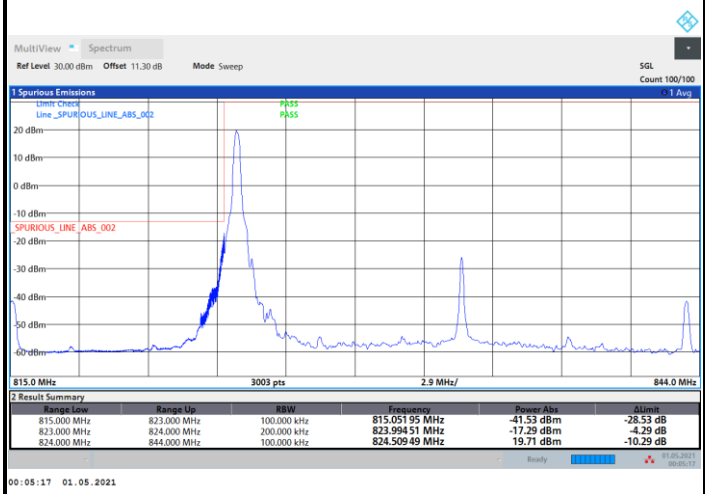
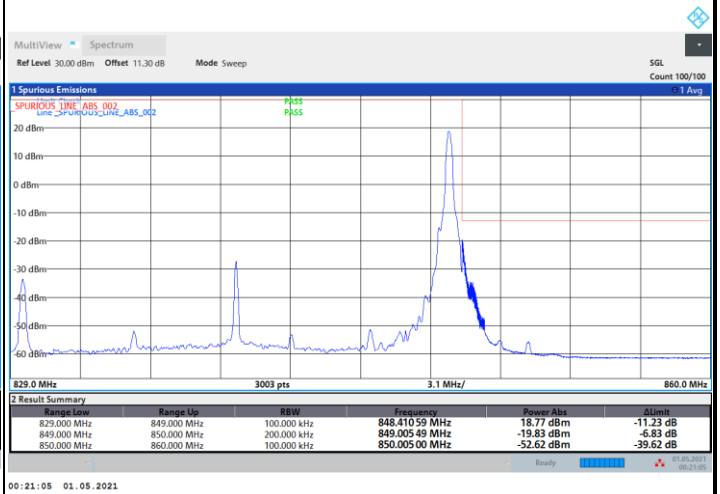
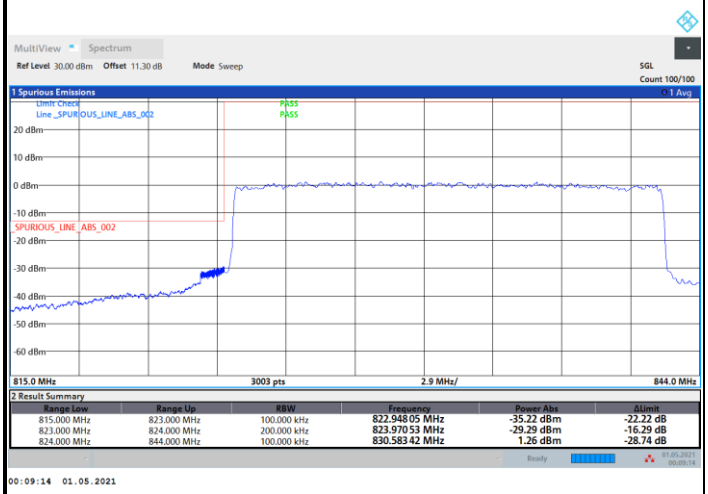
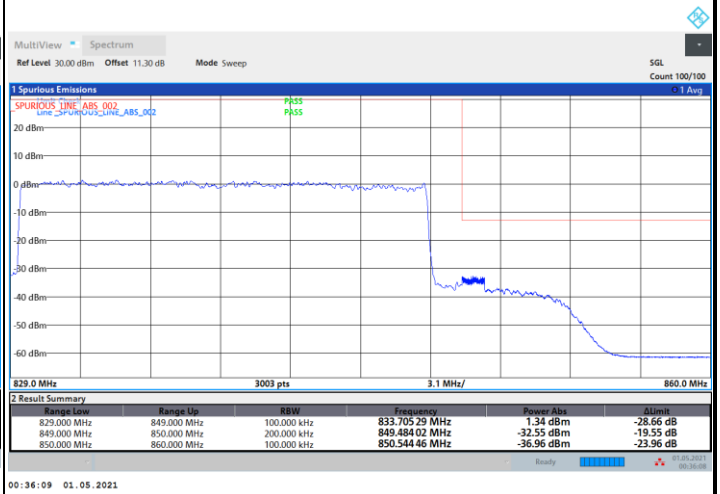
| FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

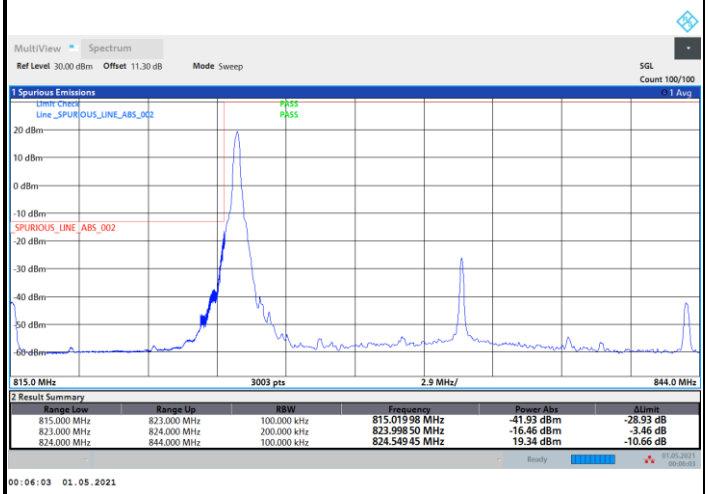
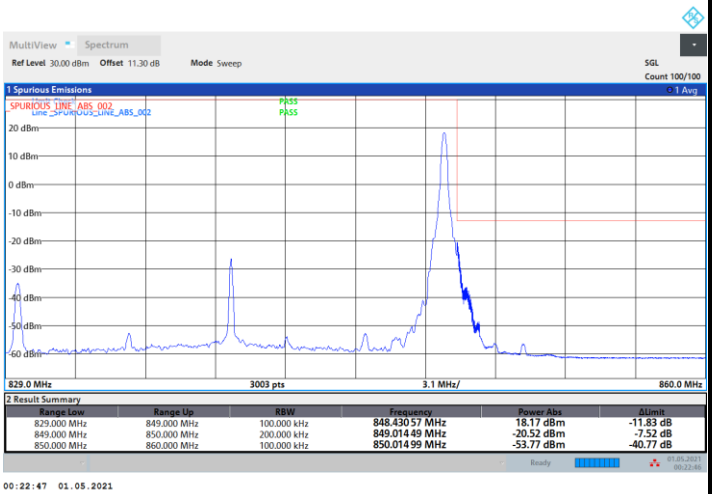
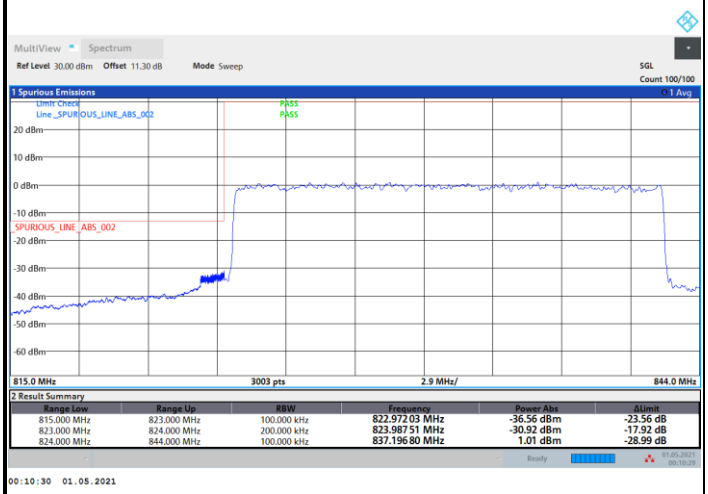
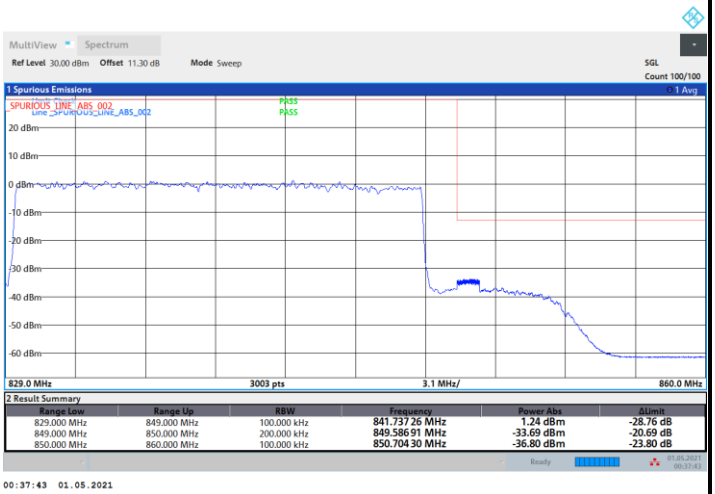
| FR1 n5 / 15MHz / CP OFDM / QPSK / Full RB | |
|---|---|
| **Lowest Band Edge** | **Highest Band Edge** |
|  |  |

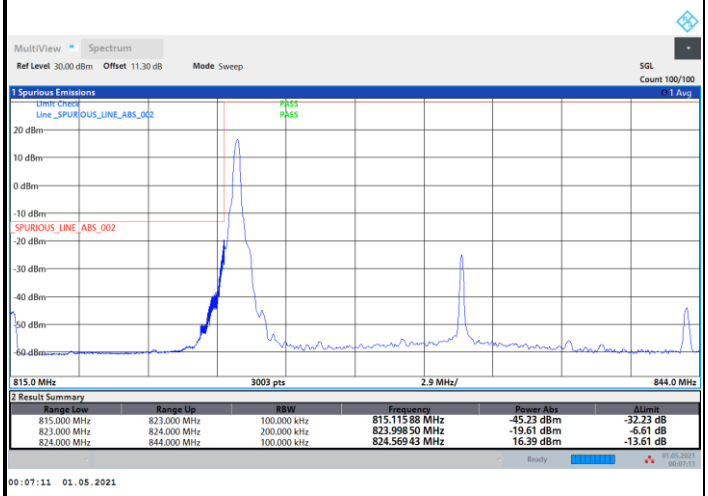
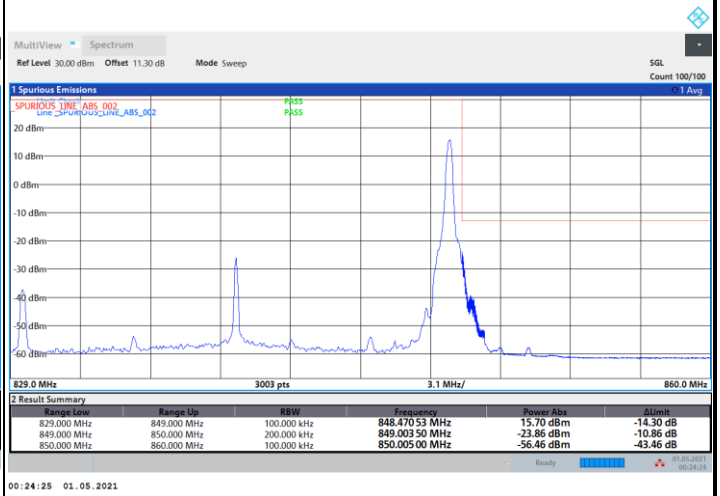
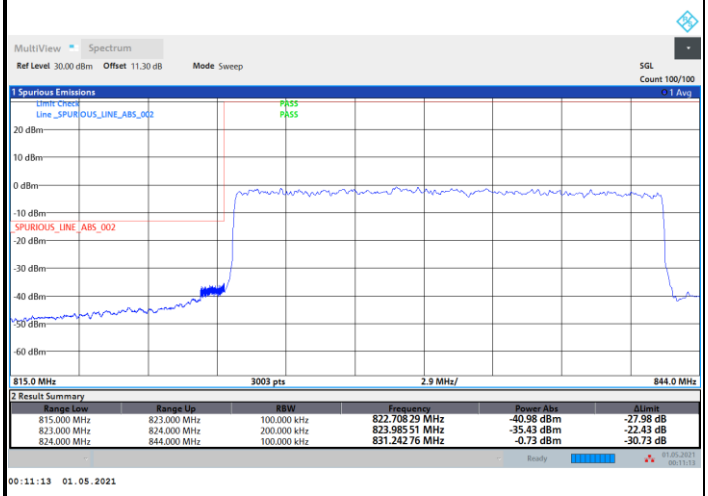
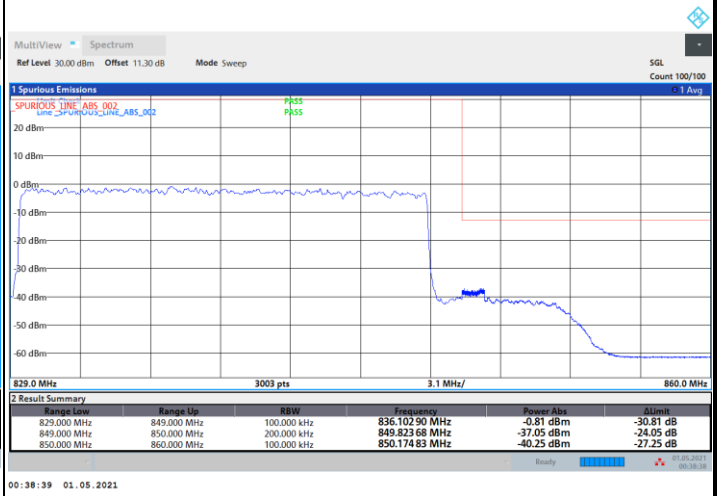
| FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Channel power -13 dBm > -24.13 dBm (Pass)** | |
|  | |

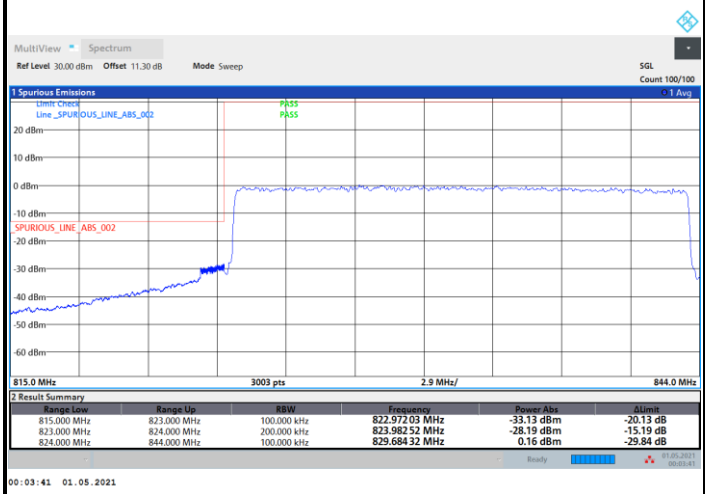
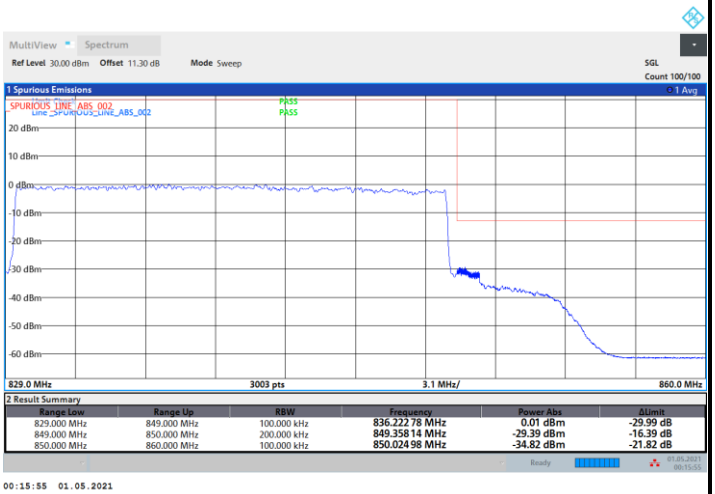
| FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| FR1 n5 / 20MHz / DFT-s-OFDM / QPSK | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

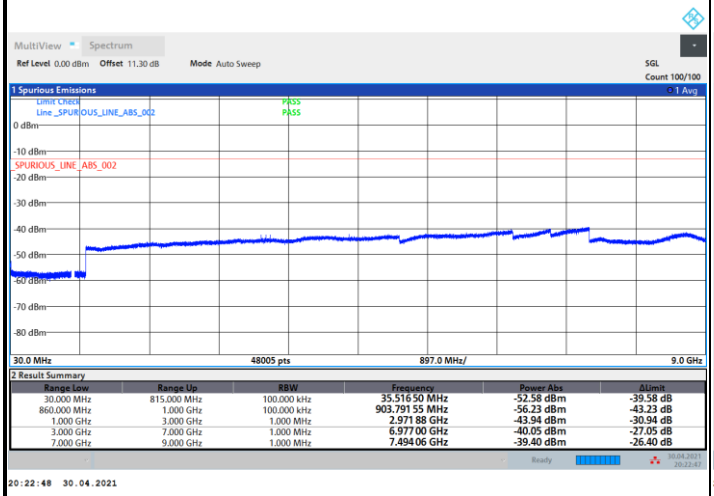
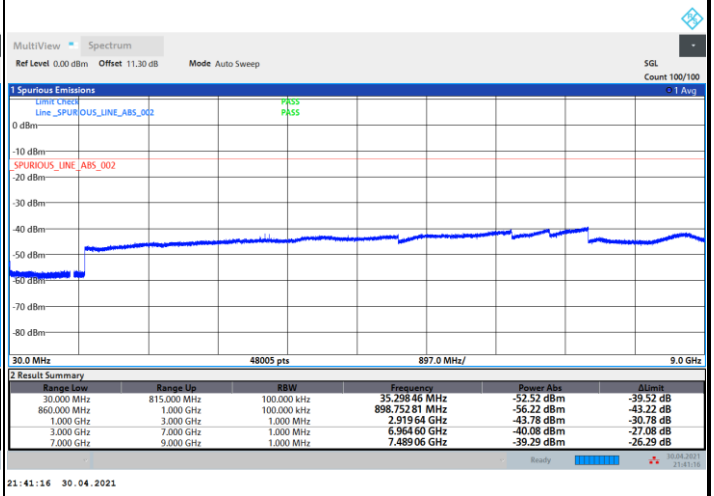
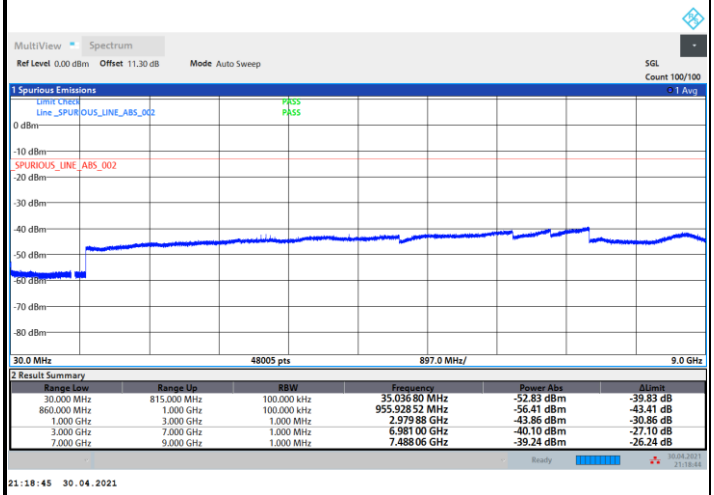
| FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| FR1 n5 / 20MHz / DFT-s-OFDM / 256QAM | |
|---|---|
| **Lowest Band Edge / 1RB0** | **Highest Band Edge / 1RBmax** |
|  |  |
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

| FR1 n5 / 20MHz / CP OFDM / QPSK / Full RB | |
|---|---|
| **Lowest Band Edge** | **Highest Band Edge** |
|  |  |

# Conducted Spurious Emission

| FR1 n5 / 5MHz / DFT-S OFDM / QPSK / 1RB1 | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

# Frequency Stability

| Test Conditions | | FR1 n5 (BPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0042 | PASS |
| 40 | Normal Voltage | 0.0026 | |
| 30 | Normal Voltage | 0.0103 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0068 | |
| 0 | Normal Voltage | 0.0055 | |
| -10 | Normal Voltage | 0.0025 | |
| -20 | Normal Voltage | 0.0055 | |
| -30 | Normal Voltage | 0.0033 | |
| 20 | Maximum Voltage | 0.0011 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0140 | |

**Note:**

**1.** Normal Voltage =3.87 V.；Battery End Point (BEP) =3.67 V.；Maximum Voltage =4.26 V.

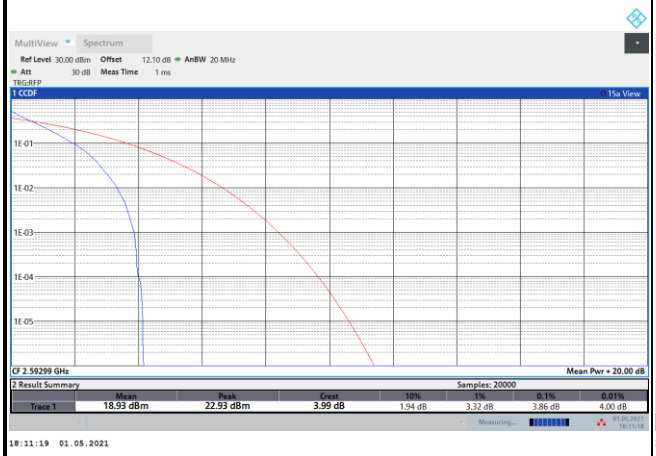
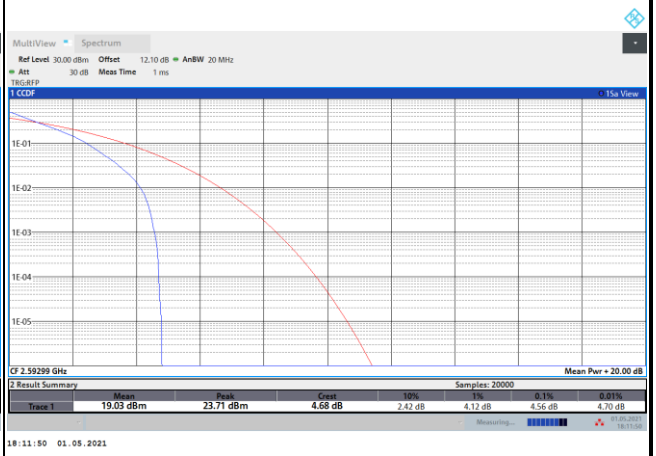
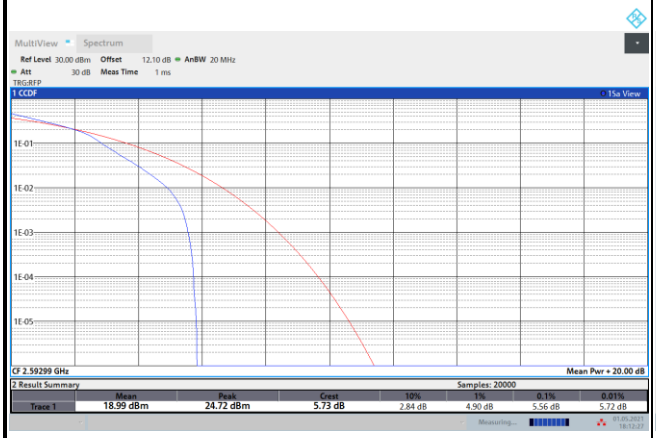
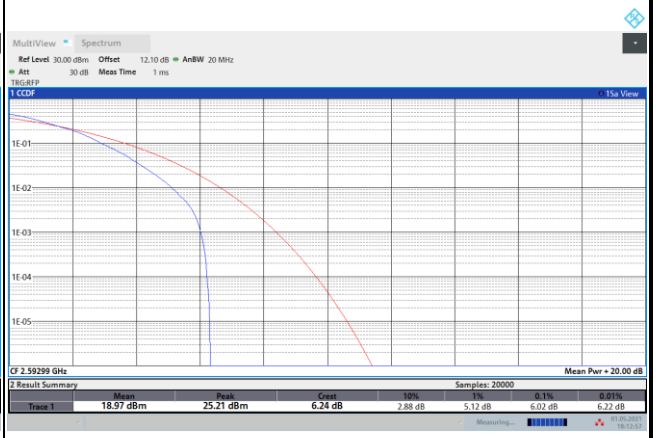
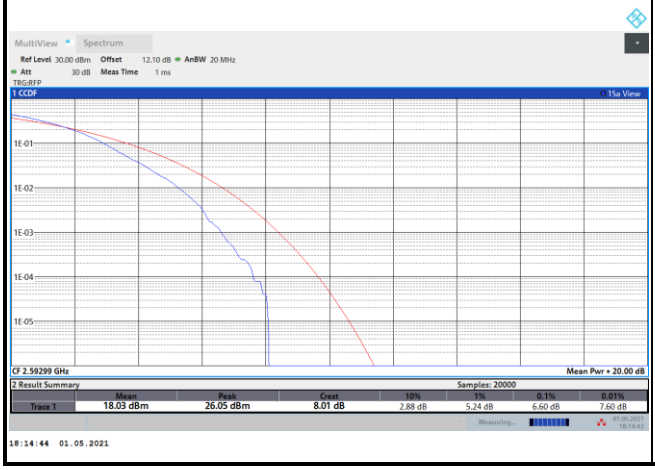
**2.** The frequency fundamental emissions stay within the authorized frequency block.

# FR1 n41

**<Sub>**

## Peak-to-Average Ratio

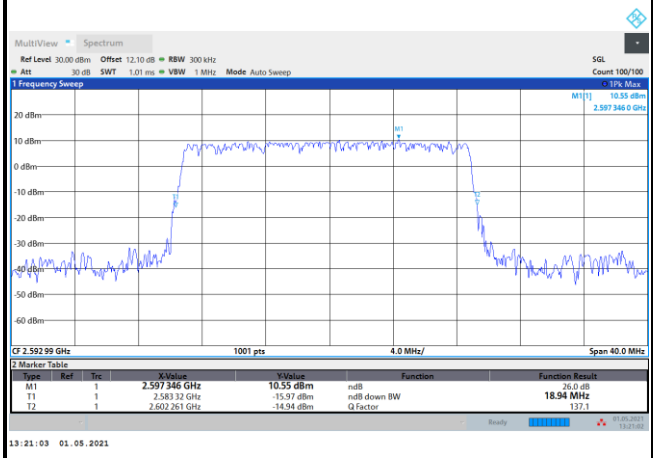
| Mode | FR1 n41 / 20MHz / DFT-S OFDM | | | | |
|---|---|---|---|---|---|
| Mod. | PI/2 BPSK | QPSK | 16QAM | 64QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 3.86 | 4.56 | 5.56 | 6.02 | PASS |
| Mode | FR1 n41 / 20MHz / DFT-S OFDM | | | | |
| Mod. | 256QAM | | | | Limit: 13dB |
| RB Size | Full RB | | | | Result |
| Middle CH | 6.60 | | | | PASS |

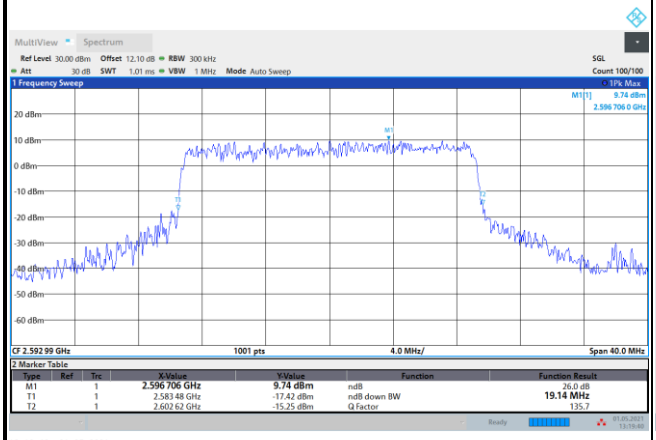
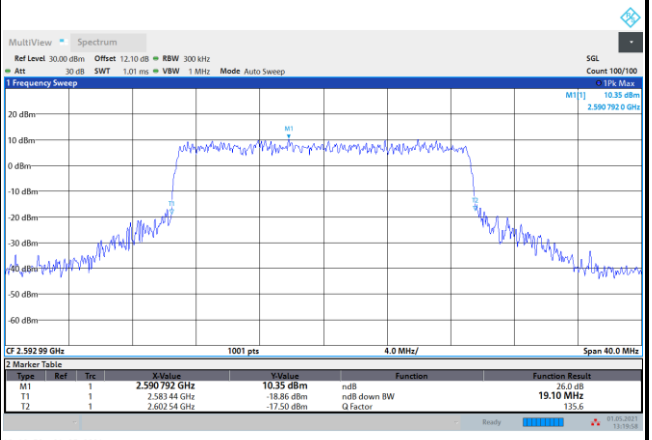
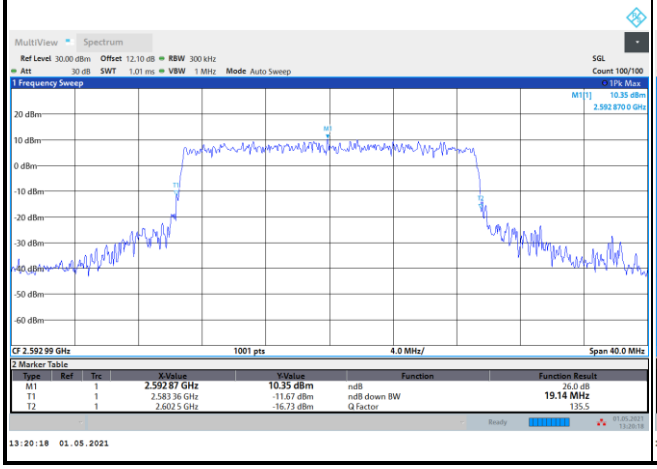
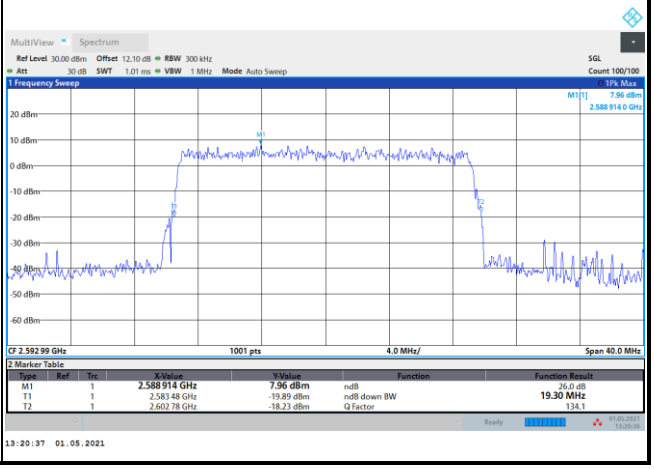
| FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB | |
|---|---|
| PI/2 BPSK | QPSK |
|  |  |
| 16QAM | 64QAM |
|  |  |
| 256QAM | |
|  | |

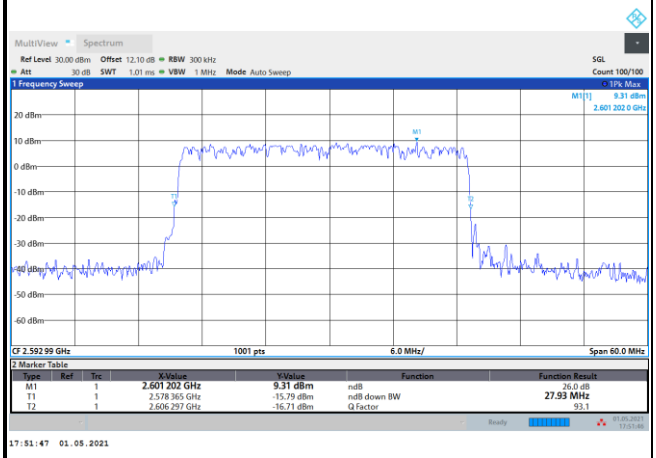
# 26dB Bandwidth

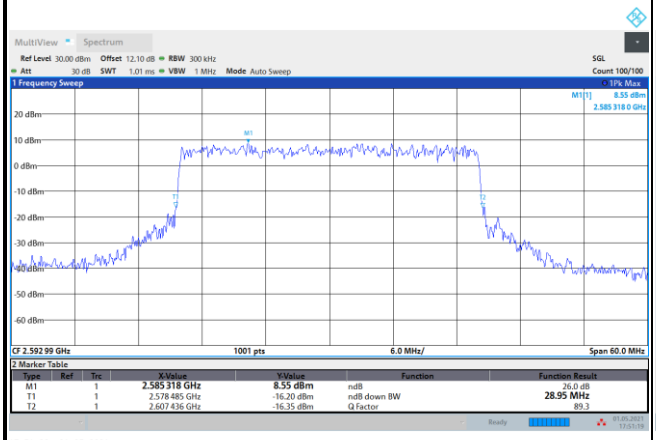
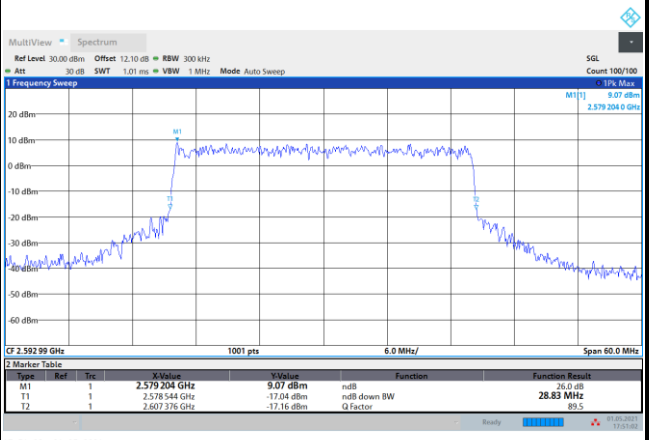
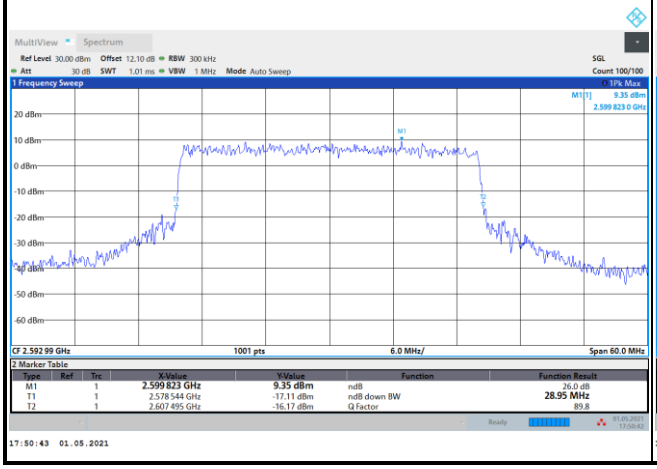
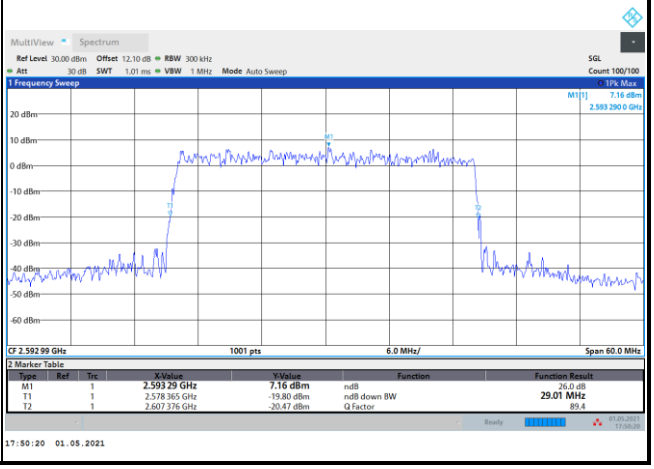
| Mode | FR1 n41 : 26dB BW(MHz) / DFT-S OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 20MHz | 30MHz | 40MHz | 50MHz | 60MHz | 80MHz | 90MHz | 100MHz |
| Mod. | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK |
| Middle CH | 18.94 | 27.93 | 38.12 | 48.25 | 60.66 | 80.08 | 88.83 | 99.70 |

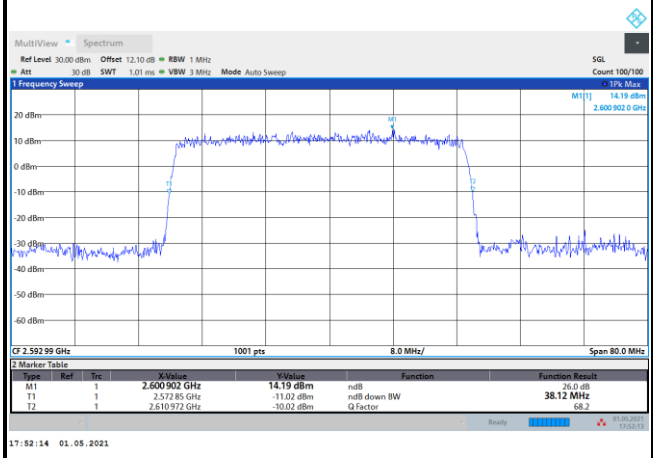
| Mode | FR1 n41 : 26dB BW(MHz) / CP OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 20MHz | | 30MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 19.14 | 19.10 | 28.95 | 28.83 | 40.36 | 40.36 | 49.95 | 50.05 |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 19.14 | 19.30 | 28.95 | 29.01 | 40.36 | 40.12 | 50.05 | 50.25 |
| BW | 60MHz | | 80MHz | | 90MHz | | 100MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 60.66 | 60.42 | 80.40 | 80.56 | 90.45 | 90.27 | 100.50 | 100.50 |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 60.54 | 60.54 | 80.40 | 80.24 | 90.45 | 90.27 | 100.50 | 100.50 |

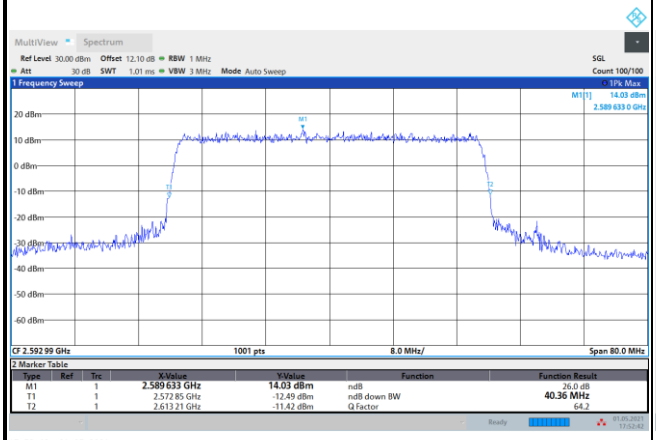
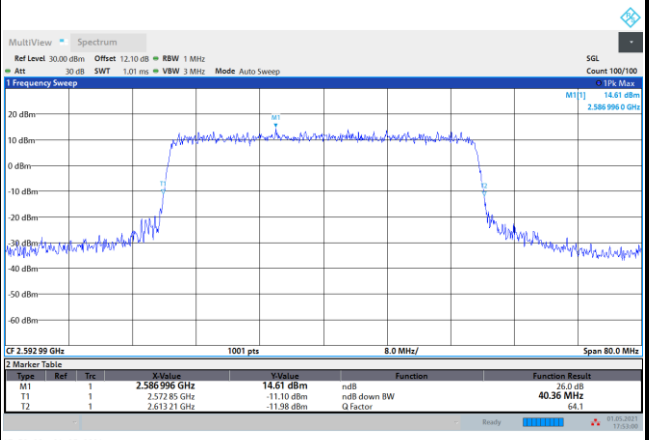
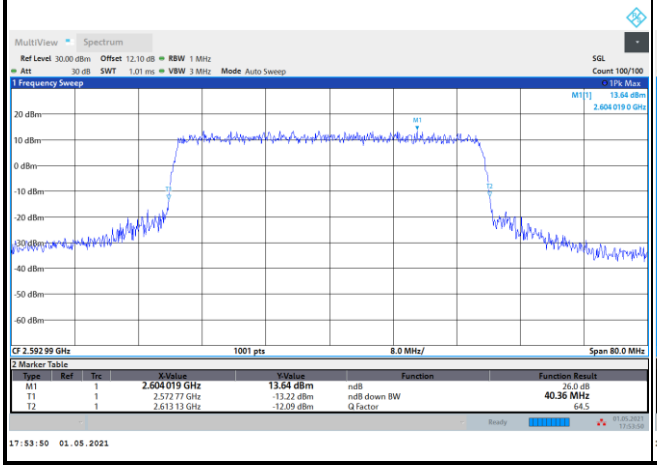
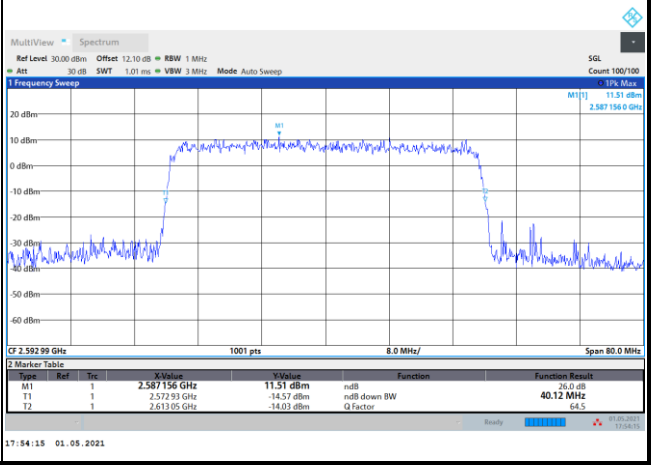
| FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB | |
|---|---|
| PI/2 BPSK | |
|  | |

| FR1 n41 / 20MHz / CP OFDM / Middle Channel / Full RB | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| FR1 n41 / 30MHz / DFT-S OFDM / Middle Channel / Full RB | |
|---|---|
| PI/2 BPSK | |
|  | |

| FR1 n41 / 30MHz / CP OFDM / Middle Channel / Full RB | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel / Full RB | |
|---|---|
| PI/2 BPSK | |
|  | |

| FR1 n41 / 40MHz / CP OFDM / Middle Channel / Full RB | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |