10.5.4.1.2. 800MHz Band

10.5.4.1.2.1. P25 Phase I(C4FM)

| Carrier frequency | Input signal status | Limit | Test Data | Result |
|---|---|---|---|---|
| Downlink | | | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.1.1 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.1.1 | PASS |
| Uplink | | | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.1.2 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.1.2 | PASS |

10.5.4.1.2.2. P25 Phase II(H-DQPSK)

| Carrier frequency | Input signal status | Limit | Test Data | Result |
|---|---|---|---|---|
| Downlink | | | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.2.1 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.2.1 | PASS |
| Uplink | | | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.2.2 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.2.2 | PASS |

10.5.4.1.2.3. DMR

| Carrier frequency | Input signal status | Limit | Test Data | Result |
|---|---|---|---|---|
| Downlink | | | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.3.1 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.3.1 | PASS |
| Uplink | | | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.3.2 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+D+G+H | See clause 10.5.5.1.2.3.2 | PASS |

10.5.4.1.2.4. Analog FM

| Carrier frequency | Input signal status | Limit | Test Data | Result |
|---|---|---|---|---|
| Downlink | | | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | Mask B+G | See clause 10.5.5.1.2.4.1 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+G | See clause 10.5.5.1.2.4.1 | PASS |
| Uplink | | | | |

| | | | | |
|---|---|---|---|---|
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | Mask B+G | See clause 10.5.5.1.2.4.2 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+G | See clause 10.5.5.1.2.4.2 | PASS |

10.5.4.1.2.5. Tetra

| Carrier frequency | Input signal status | Limit | Test Data | Result |
|---|---|---|---|---|
| Downlink | | | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | Mask B+G | See clause 10.5.5.1.2.5.1 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+G | See clause 10.5.5.1.2.5.1 | PASS |
| Uplink | | | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | Mask B+G | See clause 10.5.5.1.2.5.2 | PASS |
| | with the input signal amplitude set 3 dB above the AGC threshold | Mask B+G | See clause 10.5.5.1.2.5.2 | PASS |

**---------- The following blanks ----------**

10.5.4.2. Occupied bandwidth

10.5.4.2.1. 700MHz Band

10.5.4.2.1.1. P25 Phase I(C4FM)

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.1.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.1.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.1.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.1.2 |

10.5.4.2.1.2. P25 Phase II(H-DQPSK)

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.2.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.2.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.2.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.2.2 |

10.5.4.2.1.3. DMR

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.3.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.3.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.3.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.3.2 |

10.5.4.2.1.4. Analog FM

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.4.1 |

| | | |
|---|---|---|
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.4.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.4.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.4.2 |

10.5.4.2.1.5. Tetra

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.5.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.5.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.1.5.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.1.5.2 |

10.5.4.2.2. 800MHz Band

10.5.4.2.2.1. P25 Phase I(C4FM) mode

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.1.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.1.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.1.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.1.2 |

10.5.4.2.2.2. P25 Phase II(H-DQPSK) mode

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.2.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.2.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.2.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.2.2 |

10.5.4.2.2.3. DMR

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.3.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.3.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.3.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.3.2 |

10.5.4.2.2.4. Analog FM

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.4.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.4.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.4.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.4.2 |

10.5.4.2.2.5. Tetra

| Carrier frequency | Input signal status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.5.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.5.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | with the input signal amplitude set the AGC threshold | See clause 10.5.5.2.2.5.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.2.2.5.2 |

**---------- The following blanks ----------**

10.5.4.3. Input VS output Comparison

10.5.4.3.1. 700MHz Band

10.5.4.3.1.1. P25 Phase I(C4FM)

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | Input signal | See clause 10.5.5.3.1.1.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.1.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.1.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | Input signal | See clause 10.5.5.3.1.1.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.1.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.1.2 |

10.5.4.3.1.2. P25 Phase II(H-DQPSK)

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | Input signal | See clause 10.5.5.3.1.2.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.2.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.2.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | Input signal | See clause 10.5.5.3.1.2.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.2.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.2.2 |

10.5.4.3.1.3. DMR

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | Input signal | See clause 10.5.5.3.1.3.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.3.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.3.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | Input signal | See clause 10.5.5.3.1.3.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.3.2 |

| | | |
|---|---|---|
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.3.2 |

10.5.4.3.1.4. Analog FM

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | Input signal | See clause 10.5.5.3.1.4.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.4.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.4.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | Input signal | See clause 10.5.5.3.1.4.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.4.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.4.2 |

10.5.4.3.1.5. Tetra

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 772.0MHz | Input signal | See clause 10.5.5.3.1.5.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.5.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.5.1 |
| (2) Uplink | | |
| Mid frequency: 802.0MHz | Input signal | See clause 10.5.5.3.1.5.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.1.5.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.1.5.2 |

**---------- The following blanks ----------**

10.5.4.3.2. 800MHz Band

10.5.4.3.2.1. P25 Phase I(C4FM)

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | Input signal | See clause 10.5.5.3.2.1.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.1.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.1.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | Input signal | See clause 10.5.5.3.2.1.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.1.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.1.2 |

10.5.4.3.2.2. P25 Phase II(H-DQPSK)

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | Input signal | See clause 10.5.5.3.2.2.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.2.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.2.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | Input signal | See clause 10.5.5.3.2.2.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.2.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.2.2 |

10.5.4.3.2.3. DMR

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | Input signal | See clause 10.5.5.3.2.3.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.3.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.3.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | Input signal | See clause 10.5.5.3.2.3.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.3.2 |

| | | |
|---|---|---|
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.3.2 |

10.5.4.3.2.4. Analog FM

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | Input signal | See clause 10.5.5.3.2.4.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.4.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.4.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | Input signal | See clause 10.5.5.3.2.4.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.4.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.4.2 |

10.5.4.3.2.5. Tetra

| Carrier frequency | Input VS output Comparison status | Test data |
|---|---|---|
| (1) Downlink | | |
| Mid frequency: 856.0MHz | Input signal | See clause 10.5.5.3.2.5.1 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.5.1 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.5.1 |
| (2) Uplink | | |
| Mid frequency: 811.0MHz | Input signal | See clause 10.5.5.3.2.5.2 |
| | with the input signal amplitude set the AGC threshold | See clause 10.5.5.3.2.5.2 |
| | with the input signal amplitude set 3 dB above the AGC threshold | See clause 10.5.5.3.2.5.2 |

**---------- The following blanks ----------**

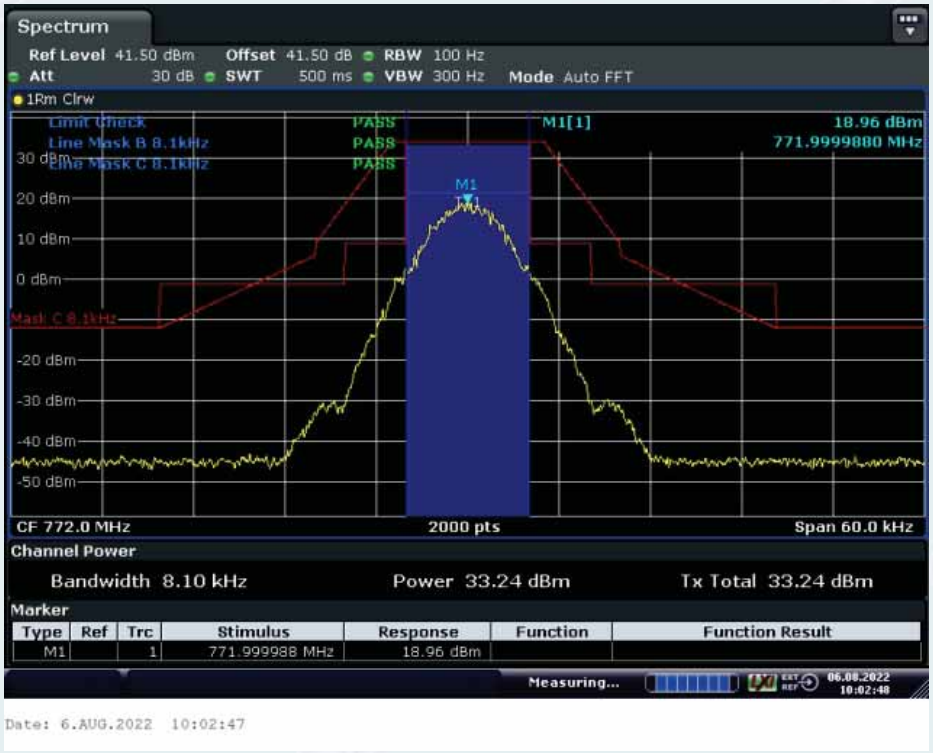
10.5.5. Test screenshot

10.5.5.1. Emission mask

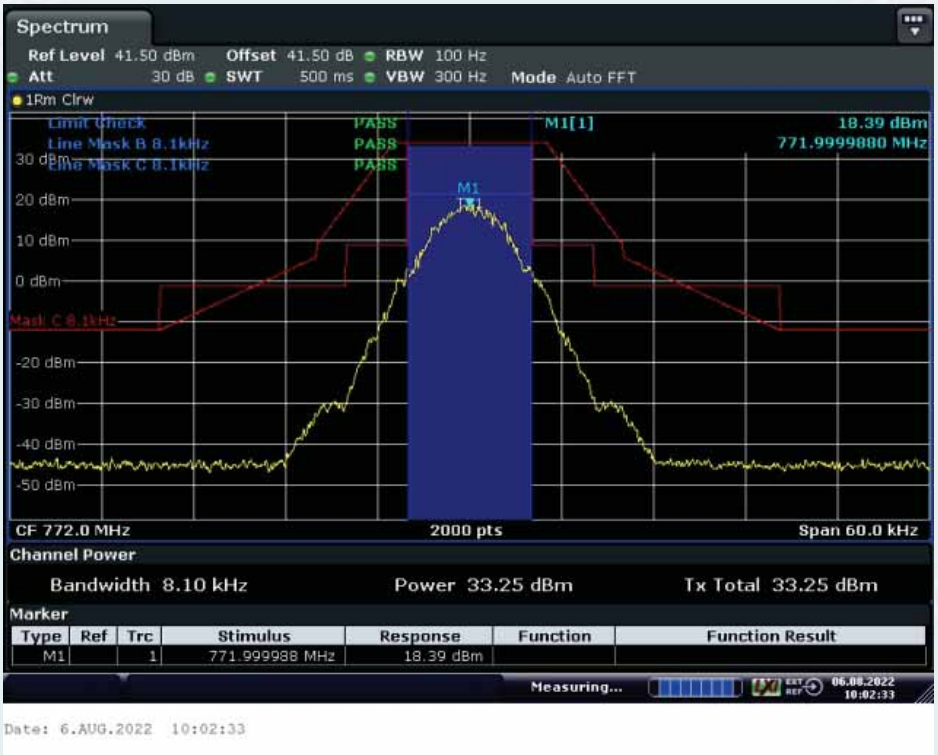
10.5.5.1.1. 700MHz Band

10.5.5.1.1.1. P25 Phase I(C4FM) (Mask B+ Mask C)

10.5.5.1.1.1.1. Downlink transmit

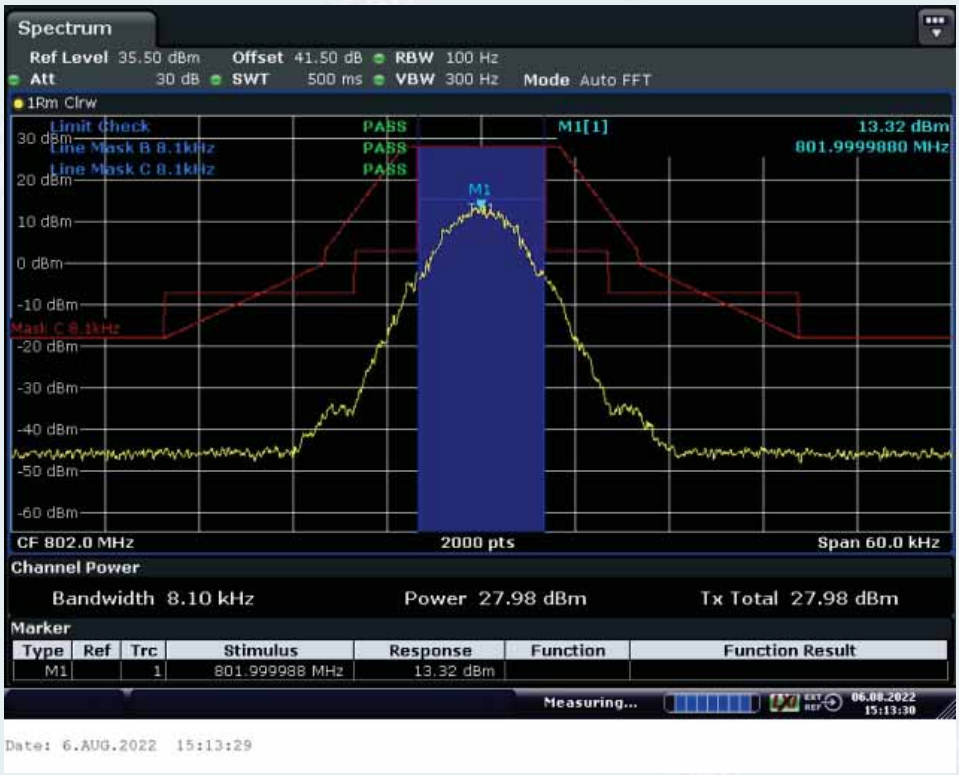



With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

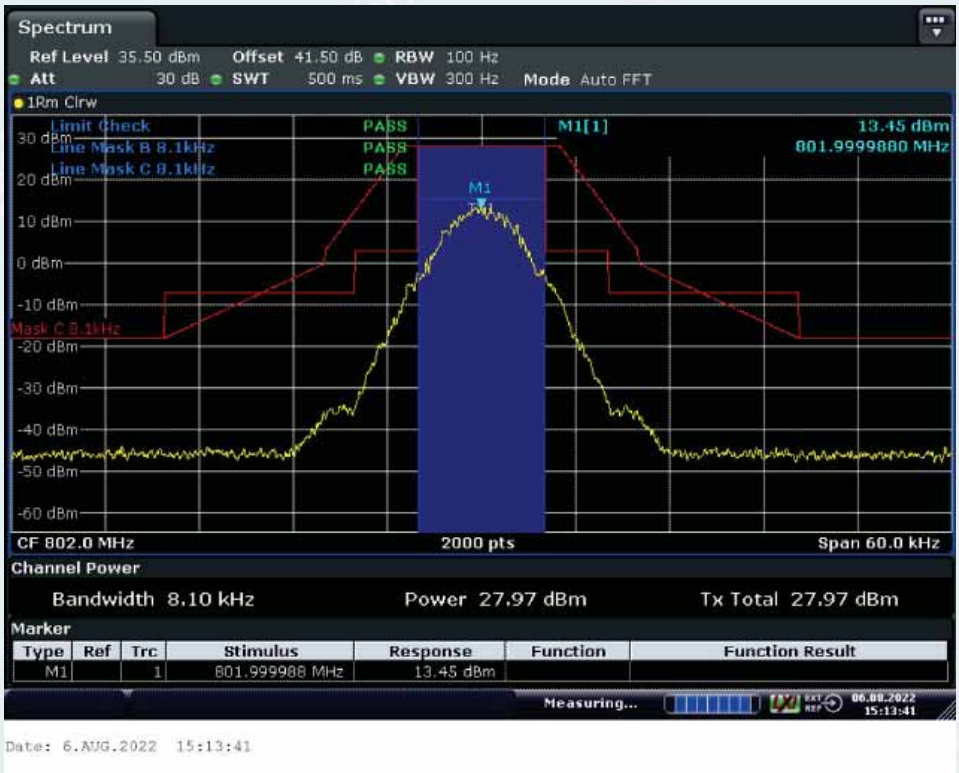



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.1.2. Uplink transmit



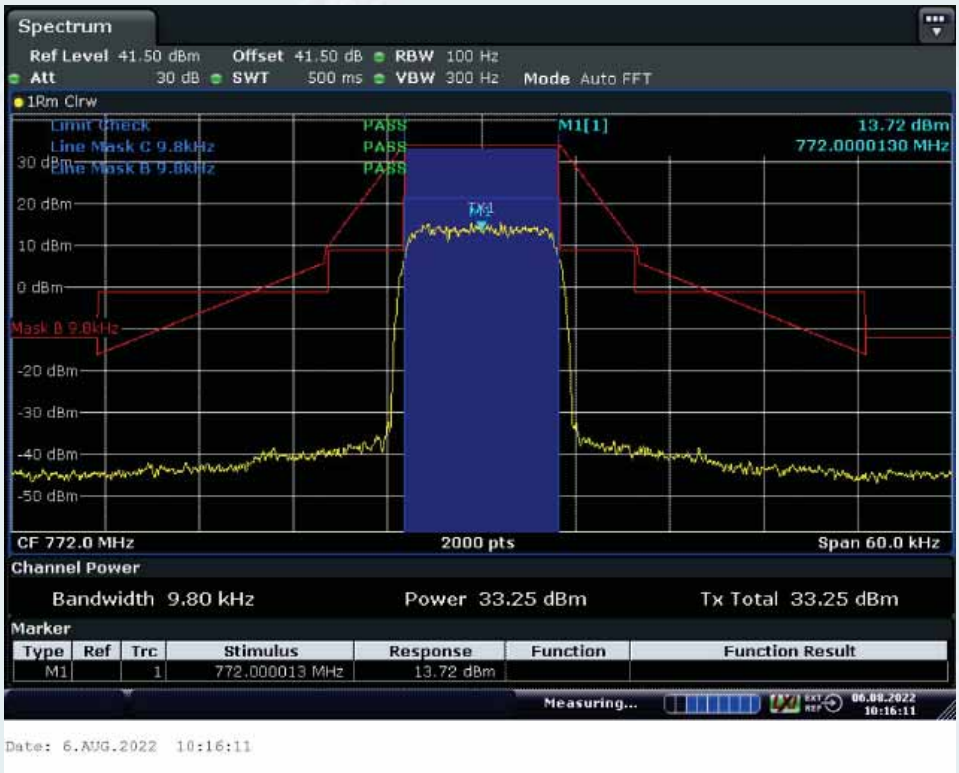

With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



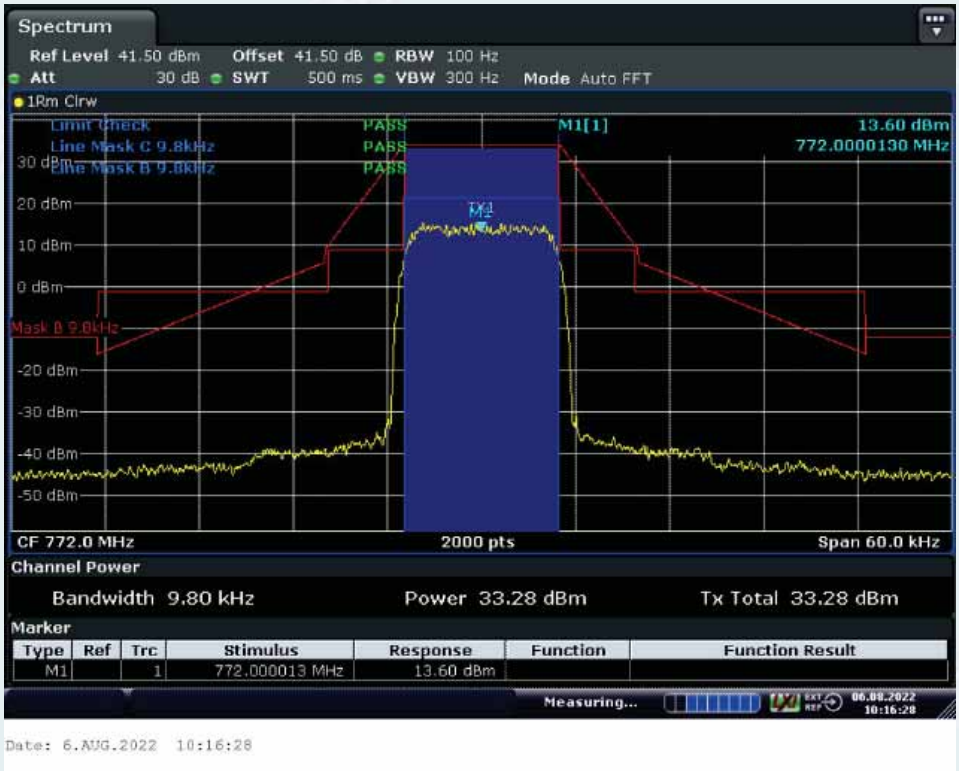

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.2. P25 Phase II (H-DQPSK) (Mask B+ Mask C)

10.5.5.1.1.2.1. Downlink transmit

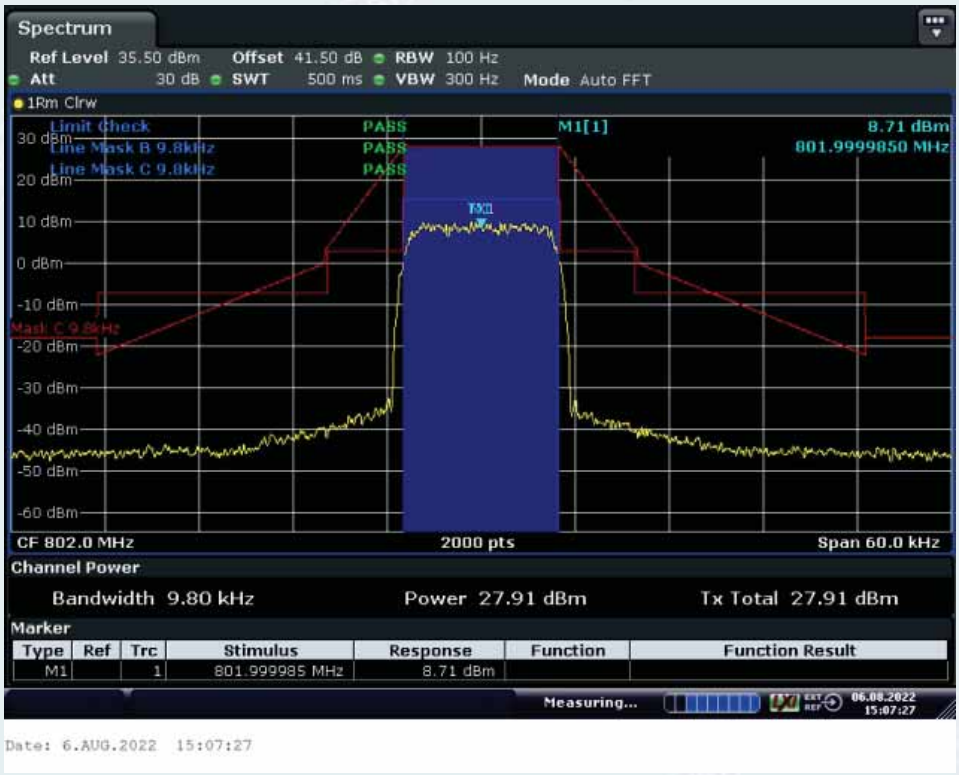



With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

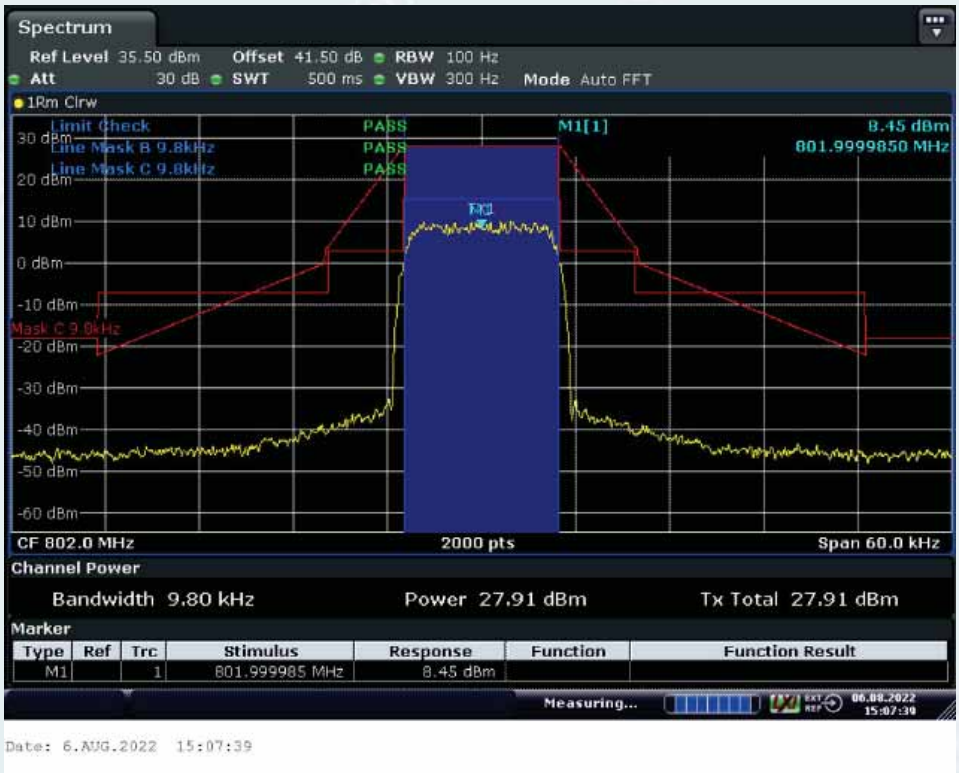



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.2.2. Uplink transmit



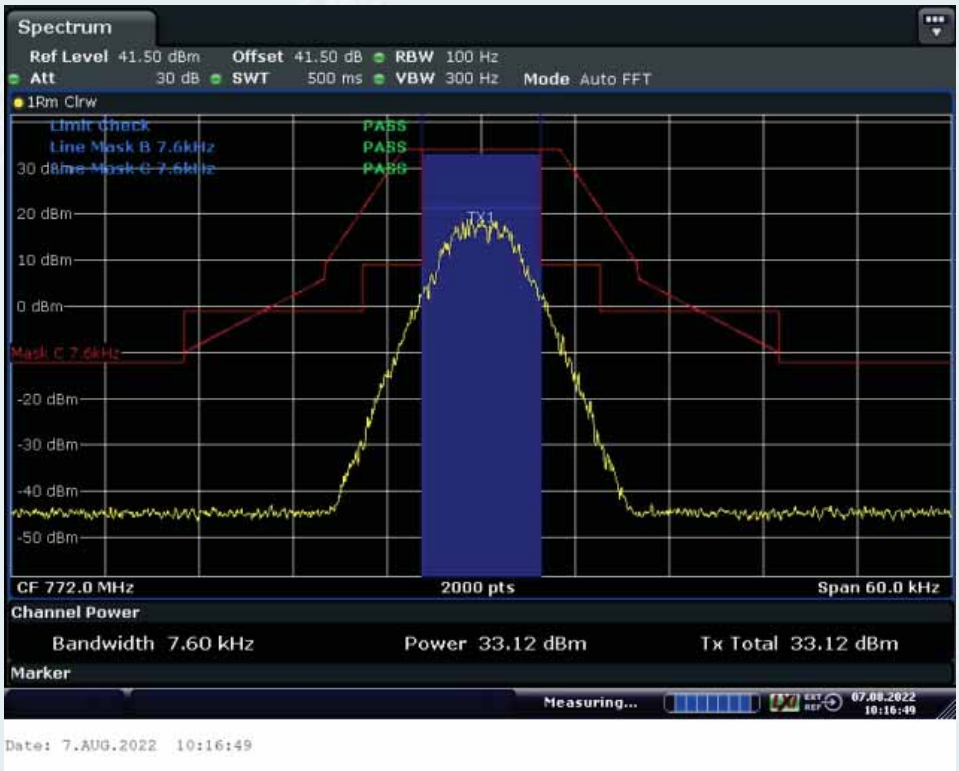

With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



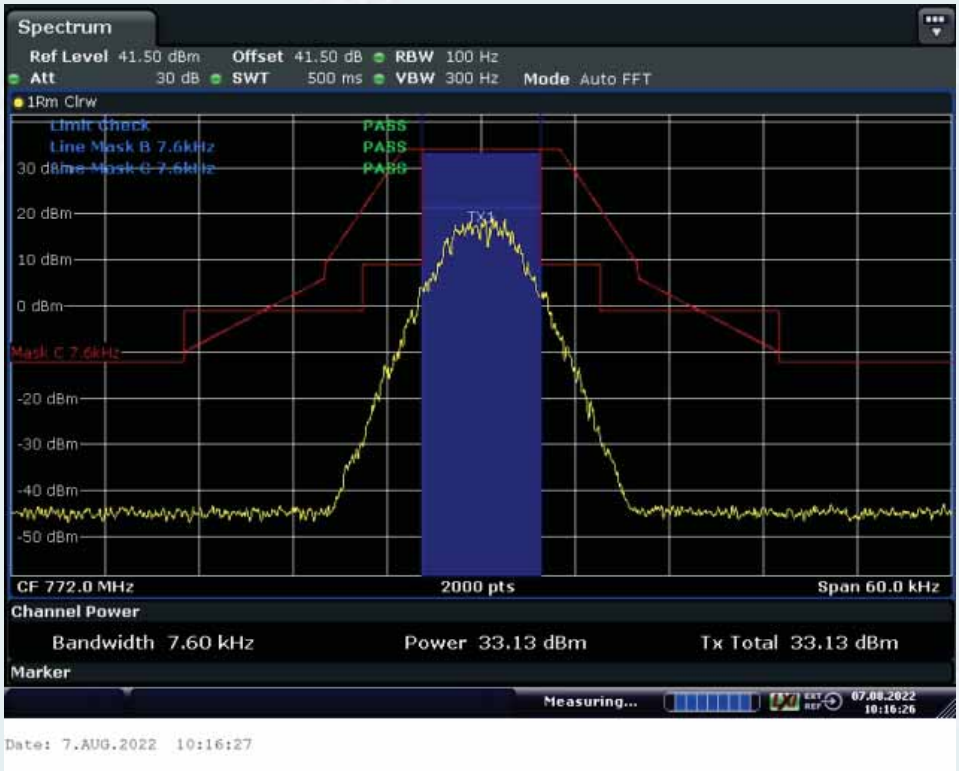

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.3. DMR (Mask B+ Mask C)

10.5.5.1.1.3.1. Downlink transmit

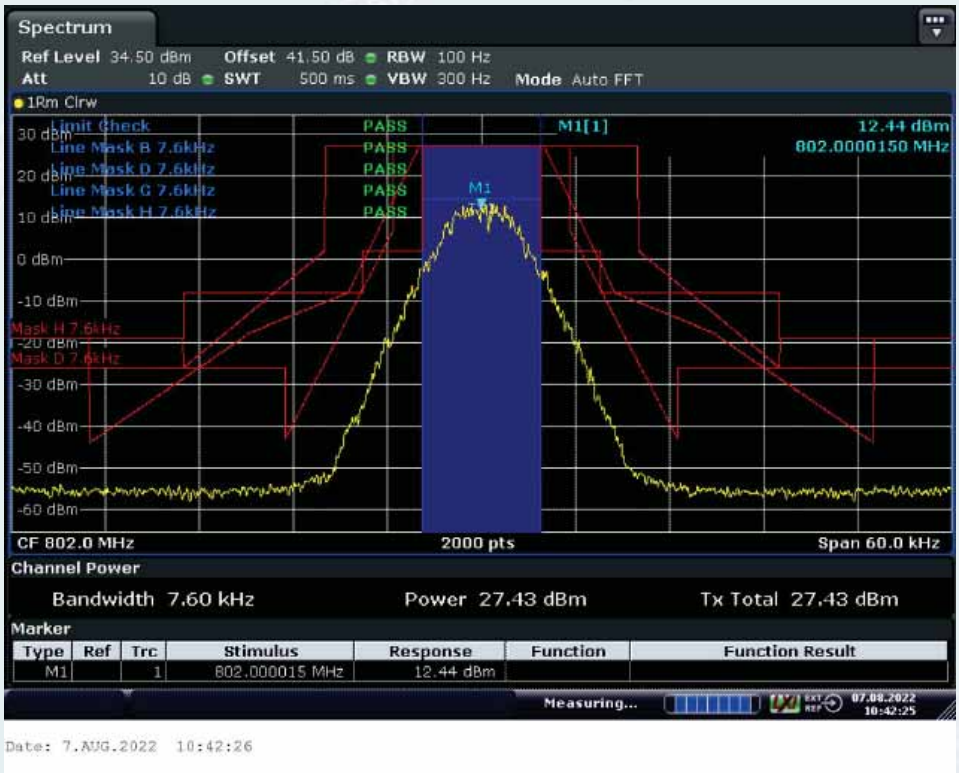



With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

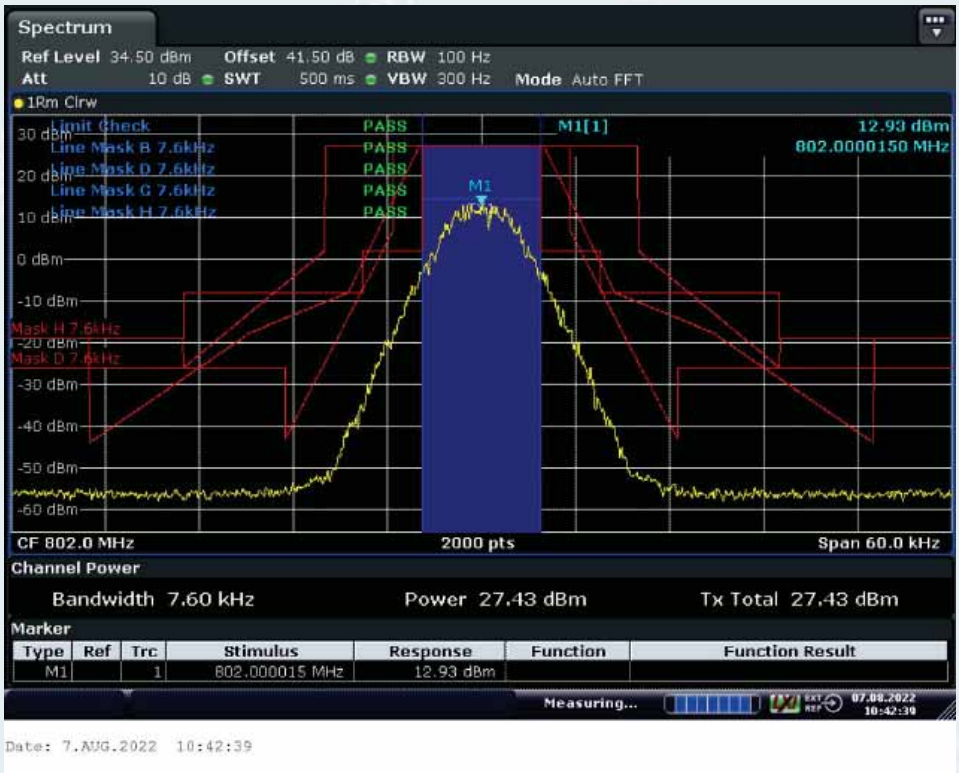



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.3.2. Uplink transmit



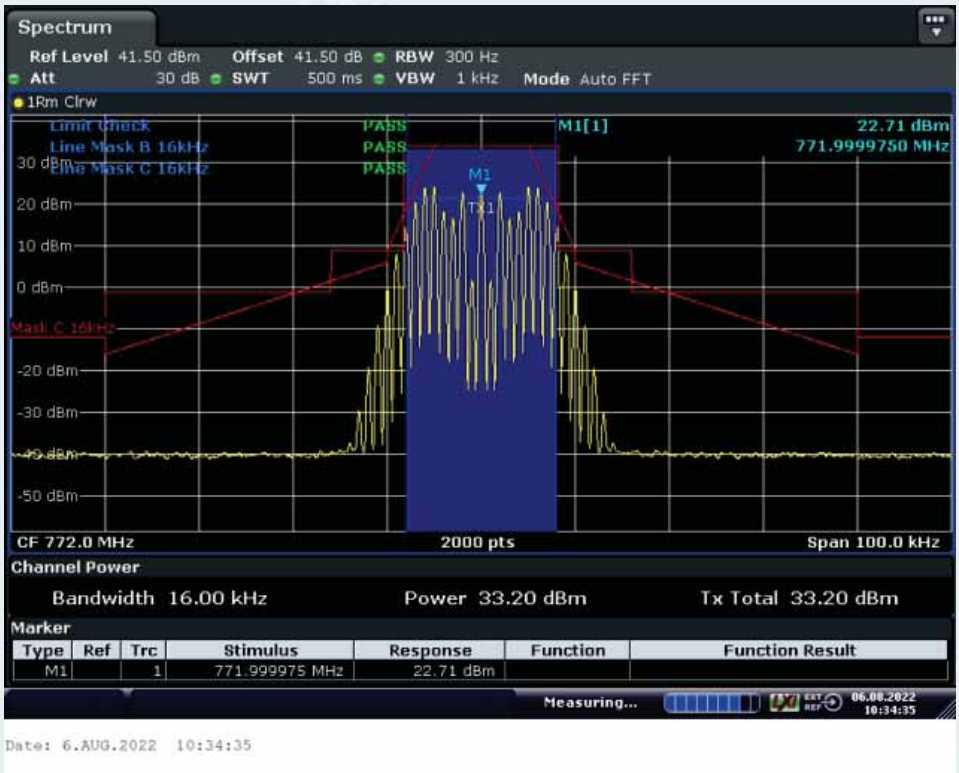

With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



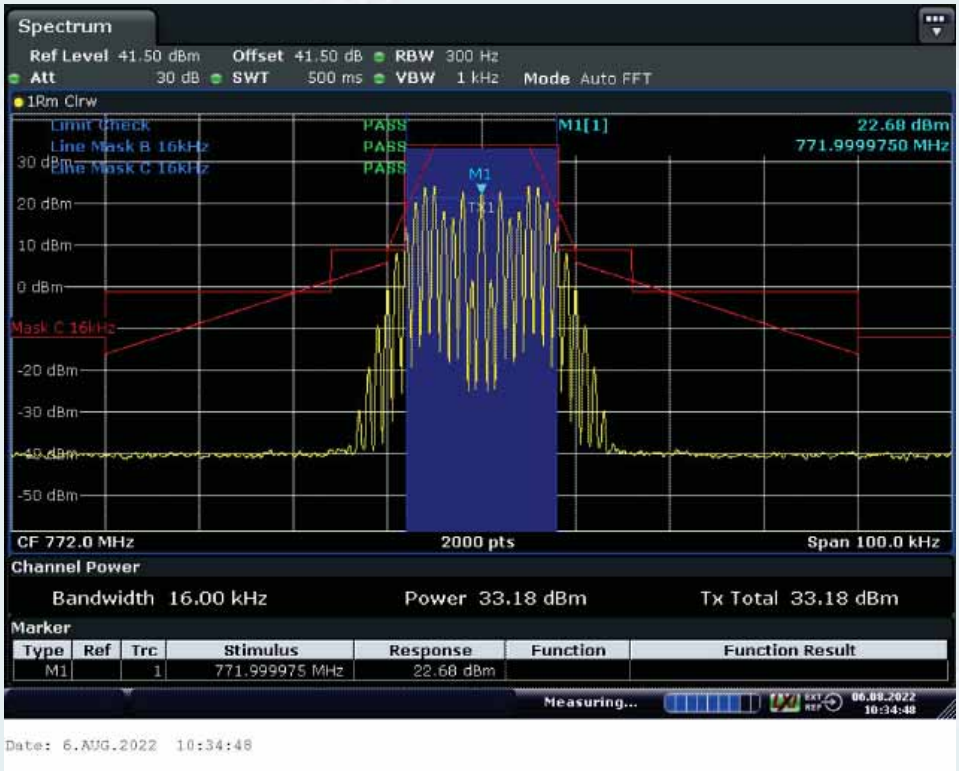

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.4. Analog FM (Mask B+ Mask C)

10.5.5.1.1.4.1. Downlink transmit

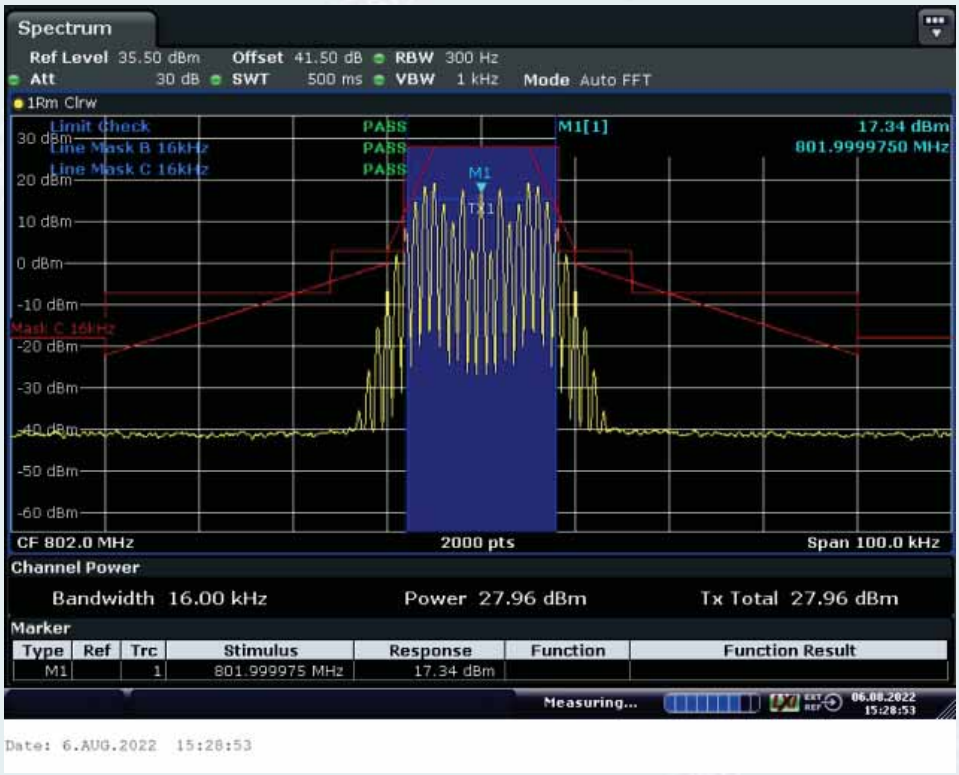



With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

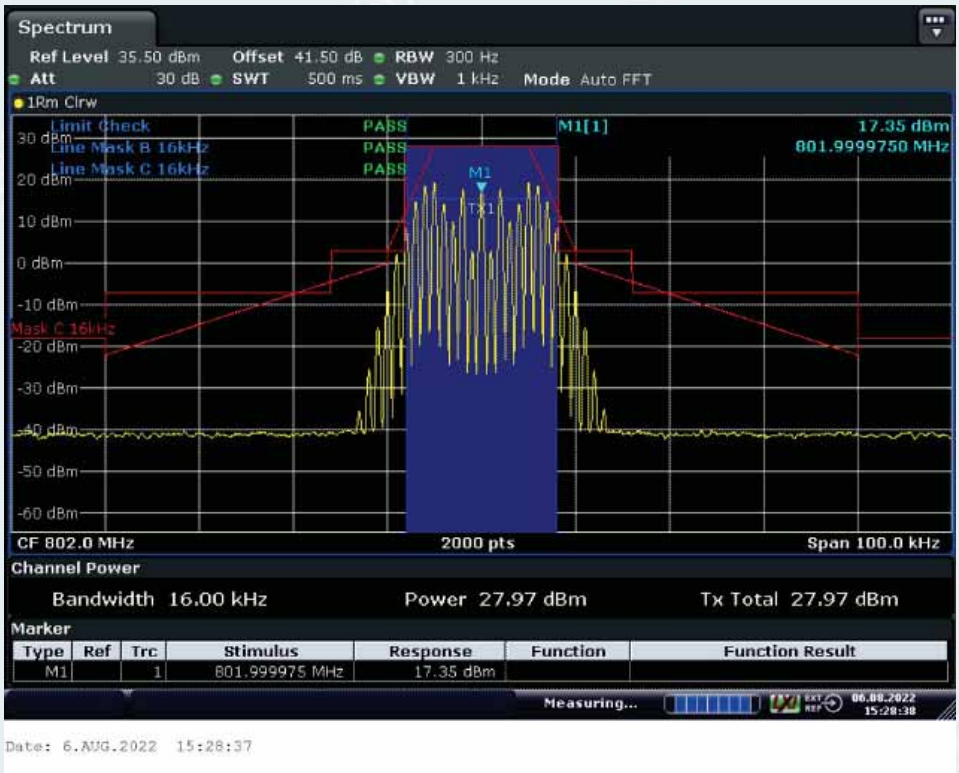



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.4.2. Uplink transmit



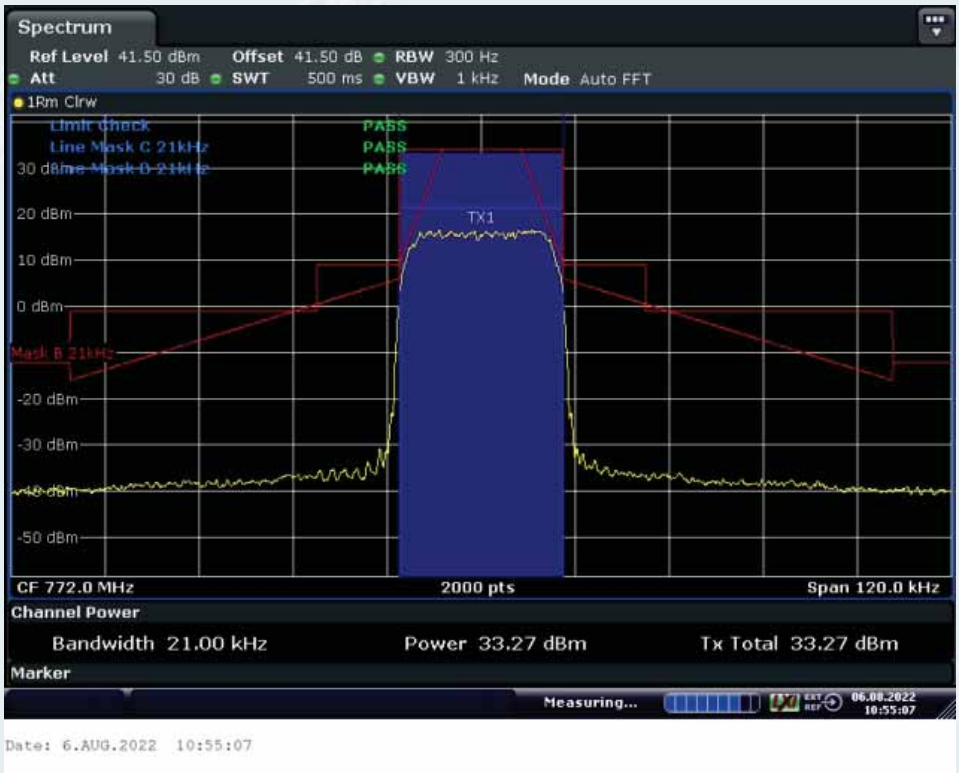

With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



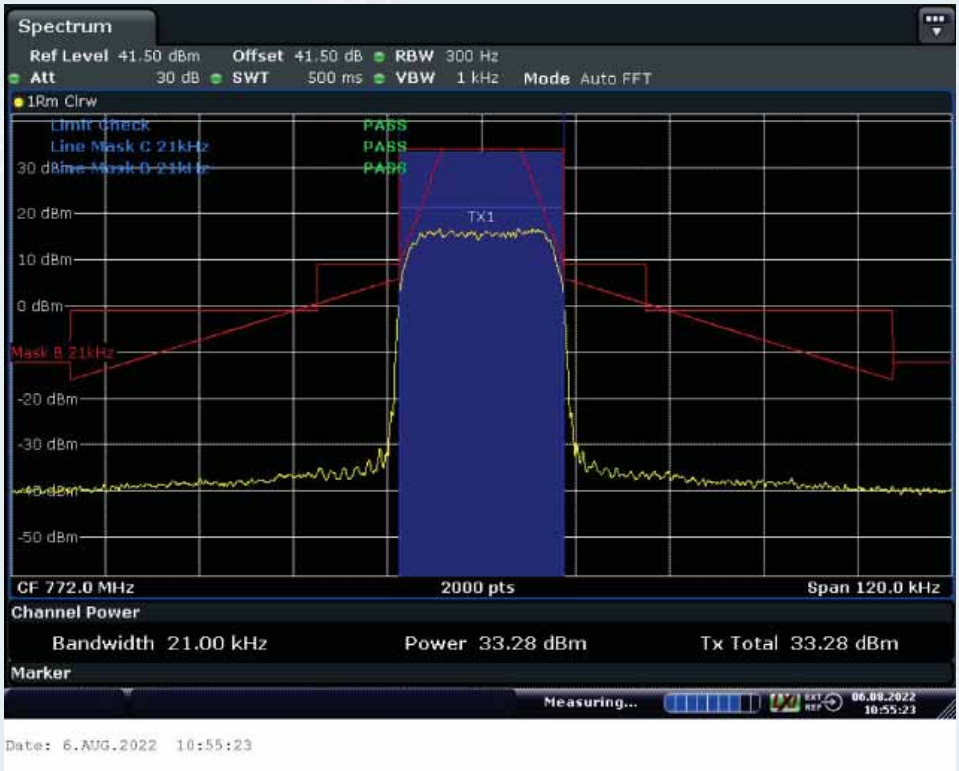

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.5. Tetra (Mask B+ Mask C)

10.5.5.1.1.5.1. Downlink transmit

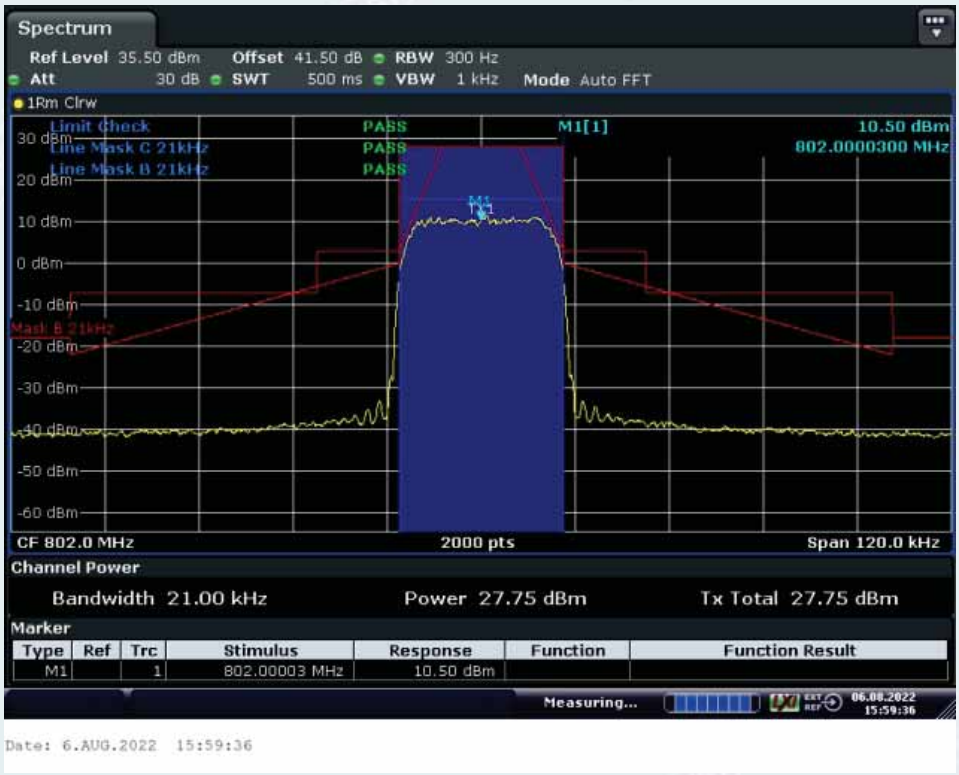



With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

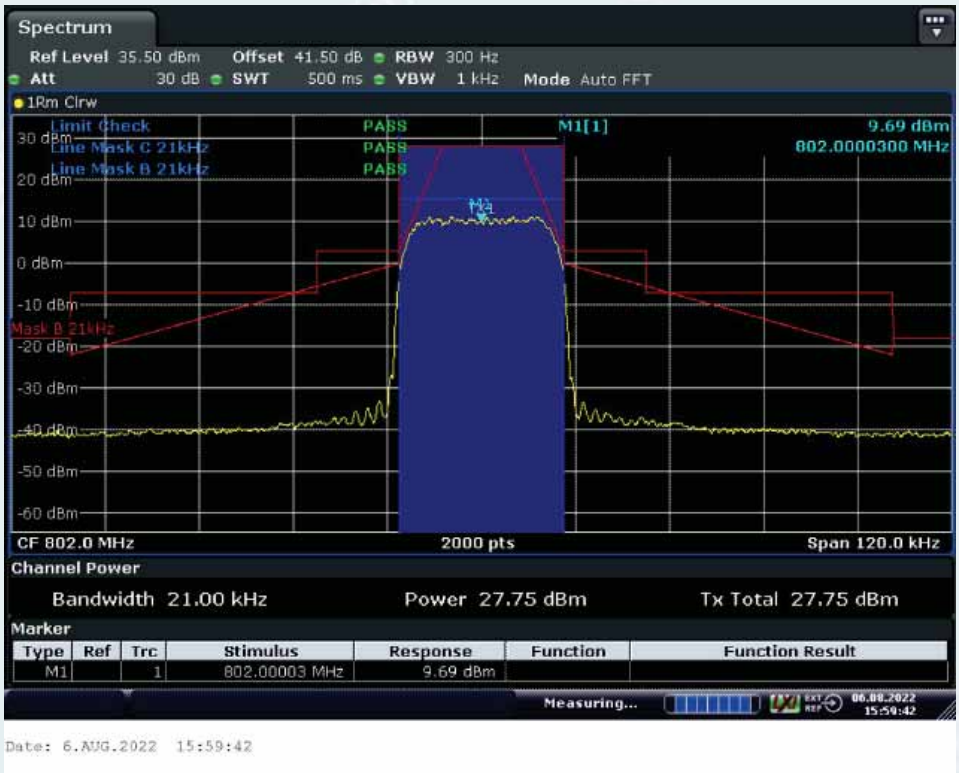



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.5.2. Uplink transmit




With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz

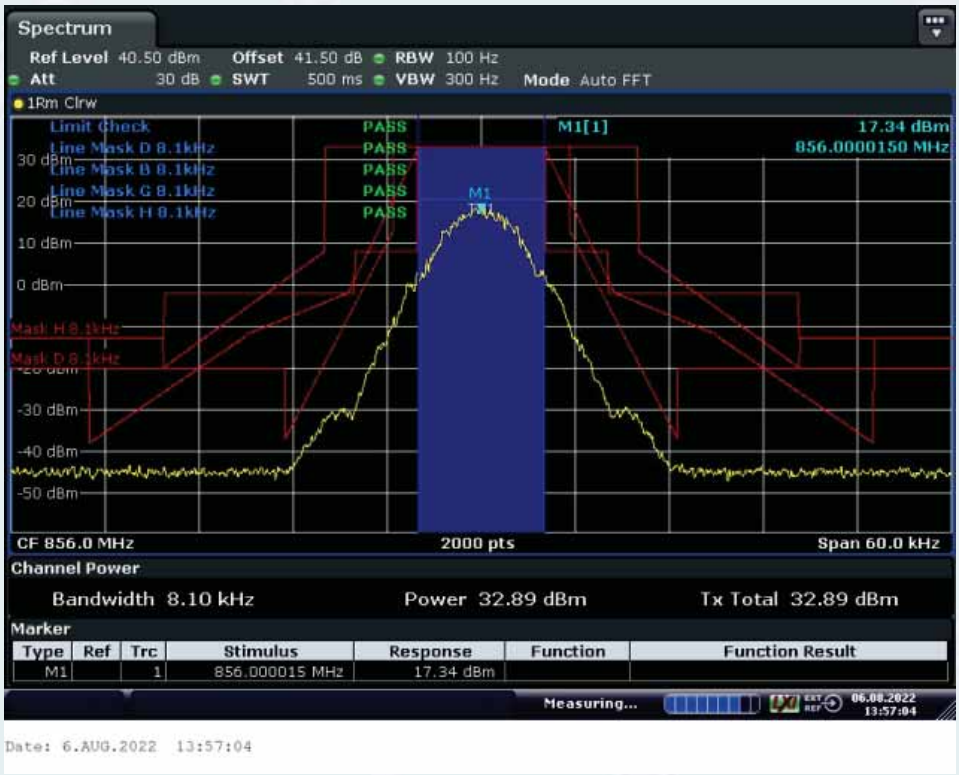



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

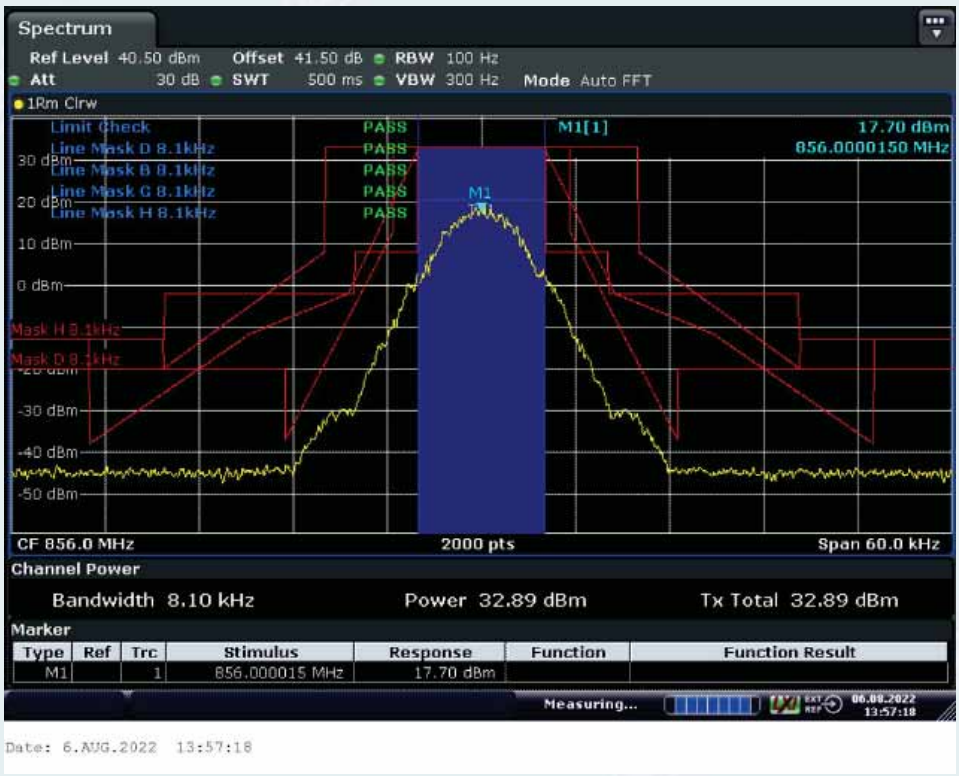
10.5.5.1.2. 800MHz Band

10.5.5.1.2.1. P25 Phase I(C4FM) (Mask B+ D+ G+H)

10.5.5.1.2.1.1. Downlink transmit

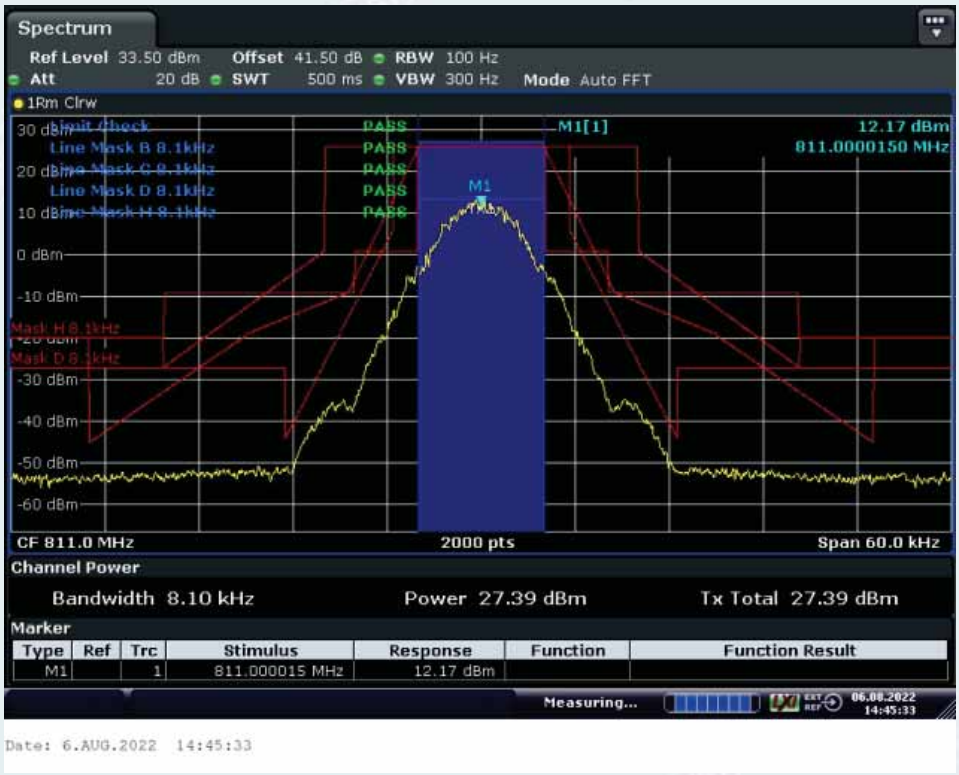



With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

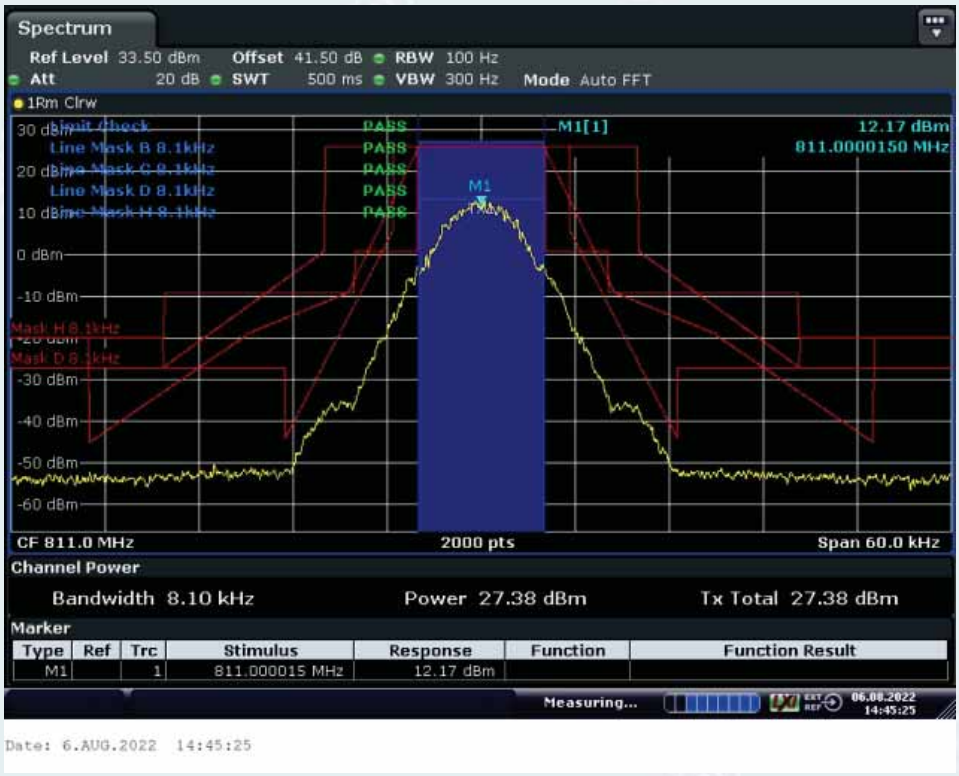



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.1.2. Uplink transmit



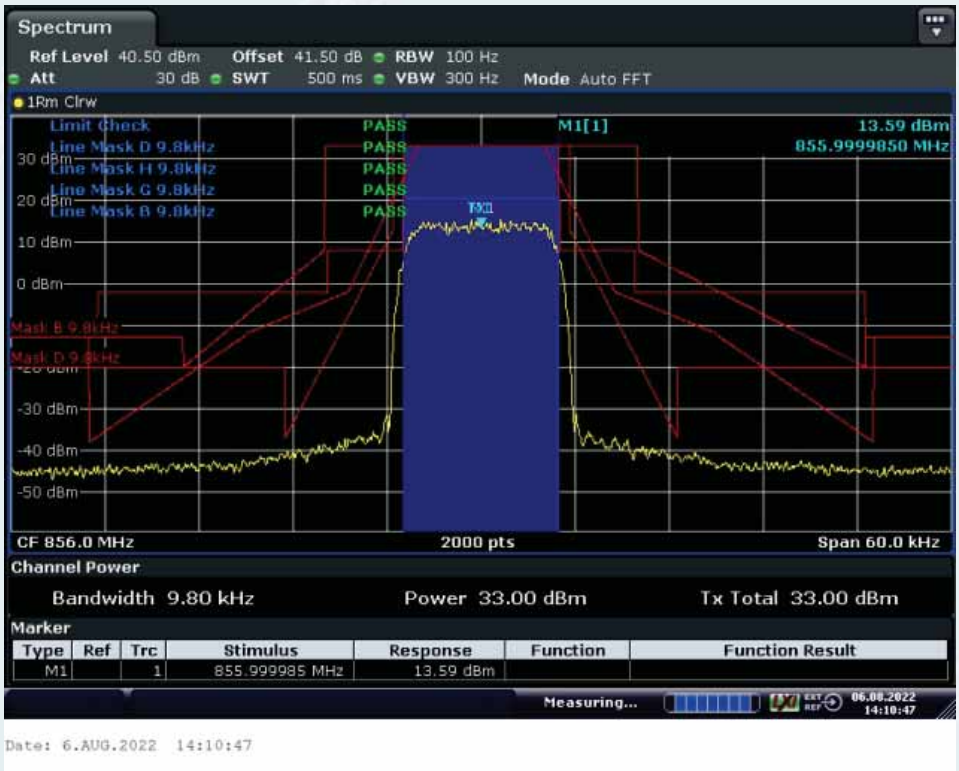

With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



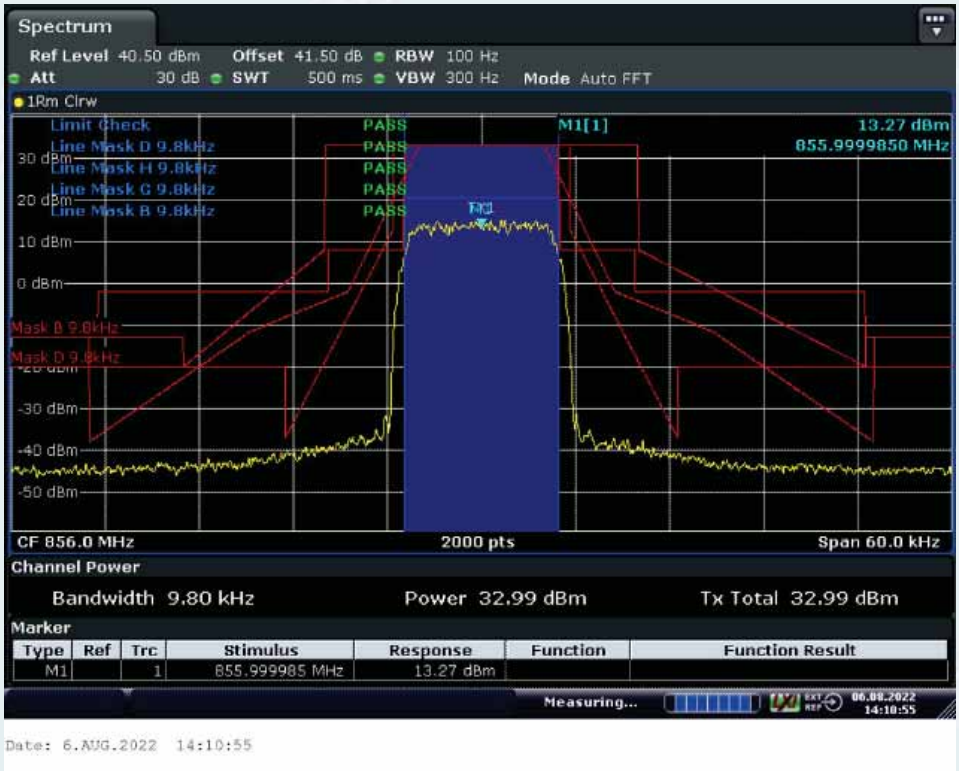

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.2. P25 Phase II (H-DQPSK) (Mask B+ D+ G+H)

10.5.5.1.2.2.1. Downlink transmit

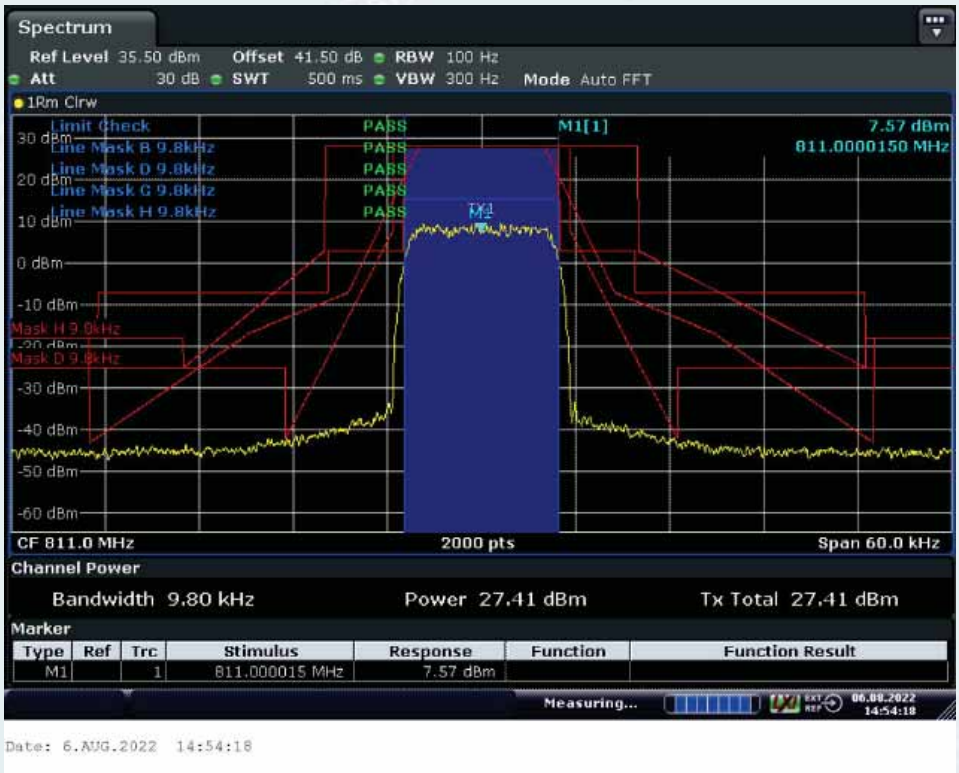



With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

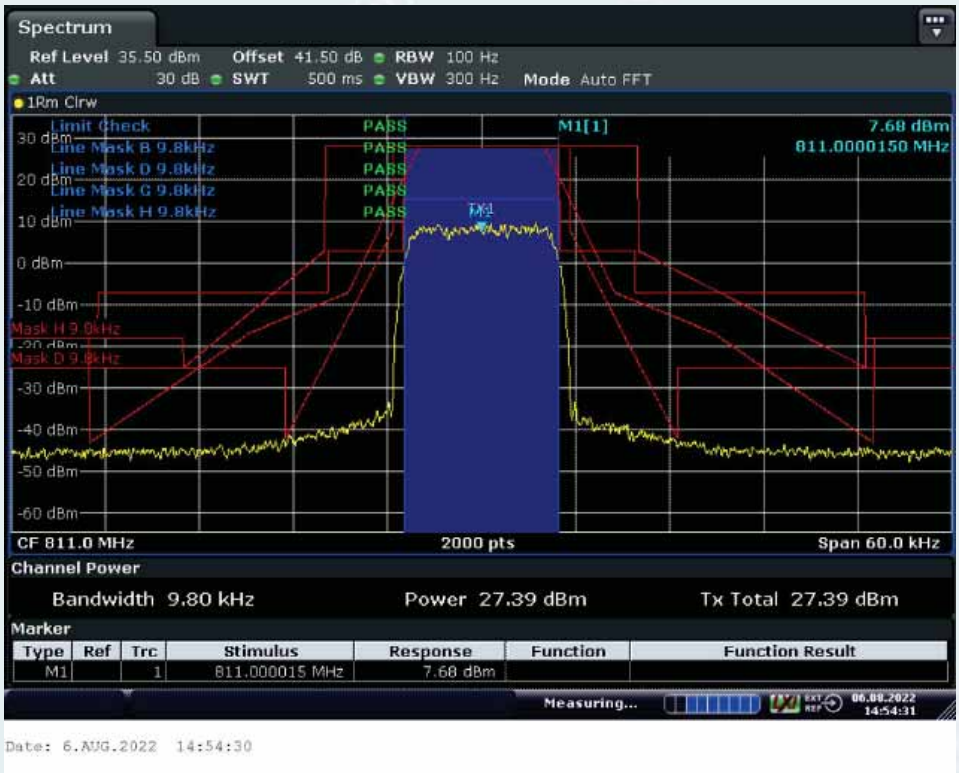



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.2.2. Uplink transmit



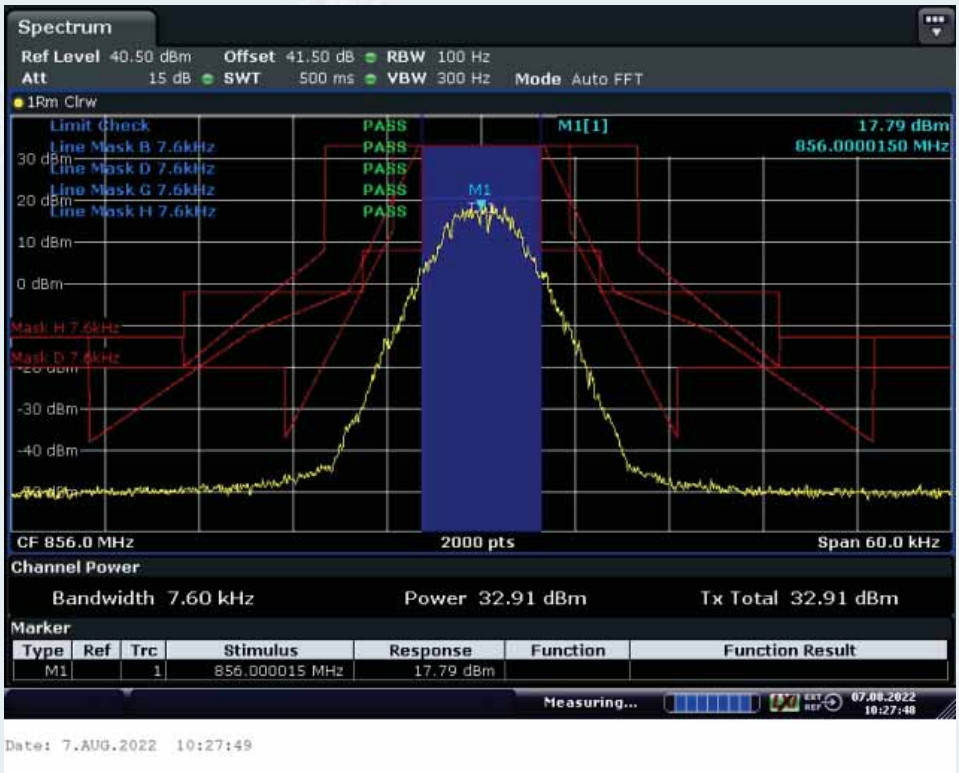

With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



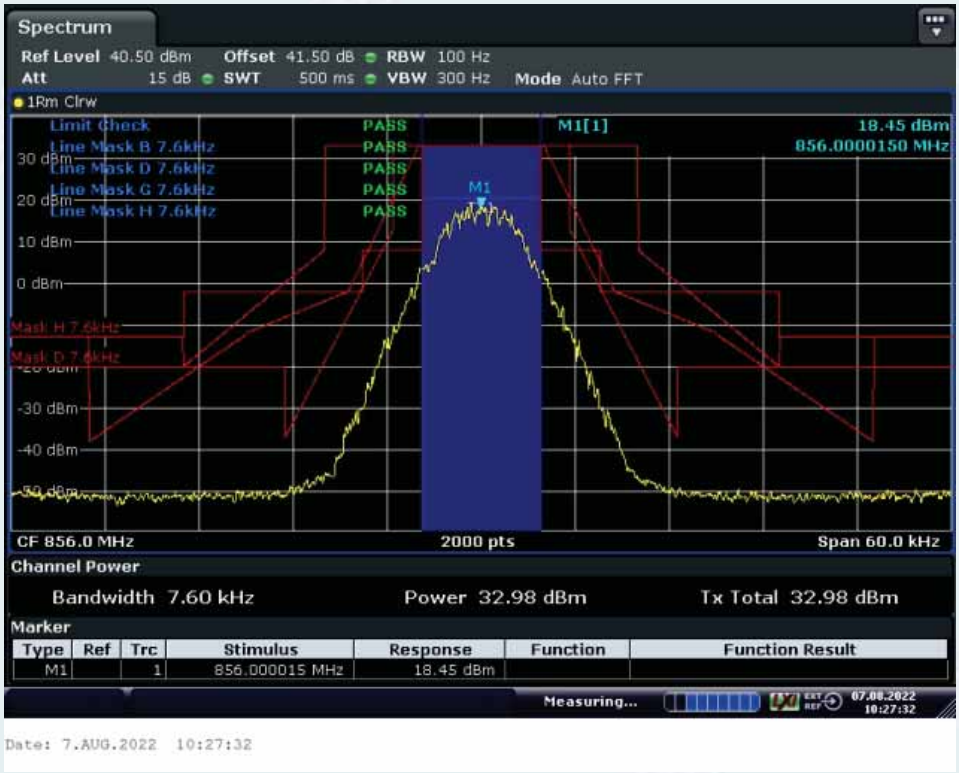

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.3. DMR (Mask B+ D+ G+H)

10.5.5.1.2.3.1. Downlink transmit

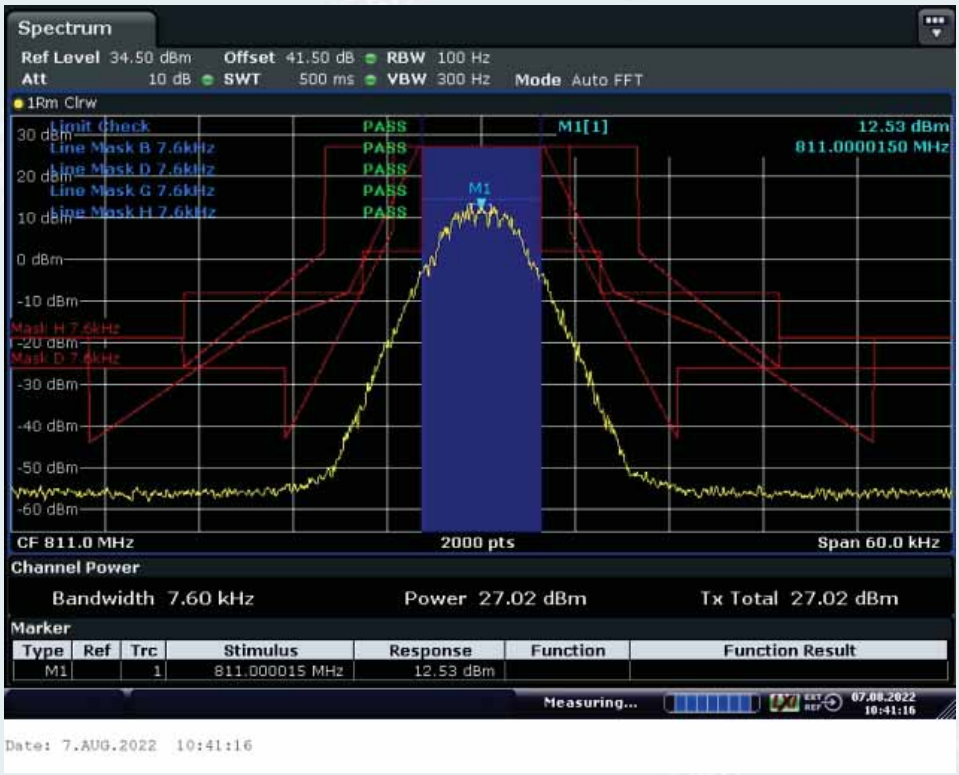



With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

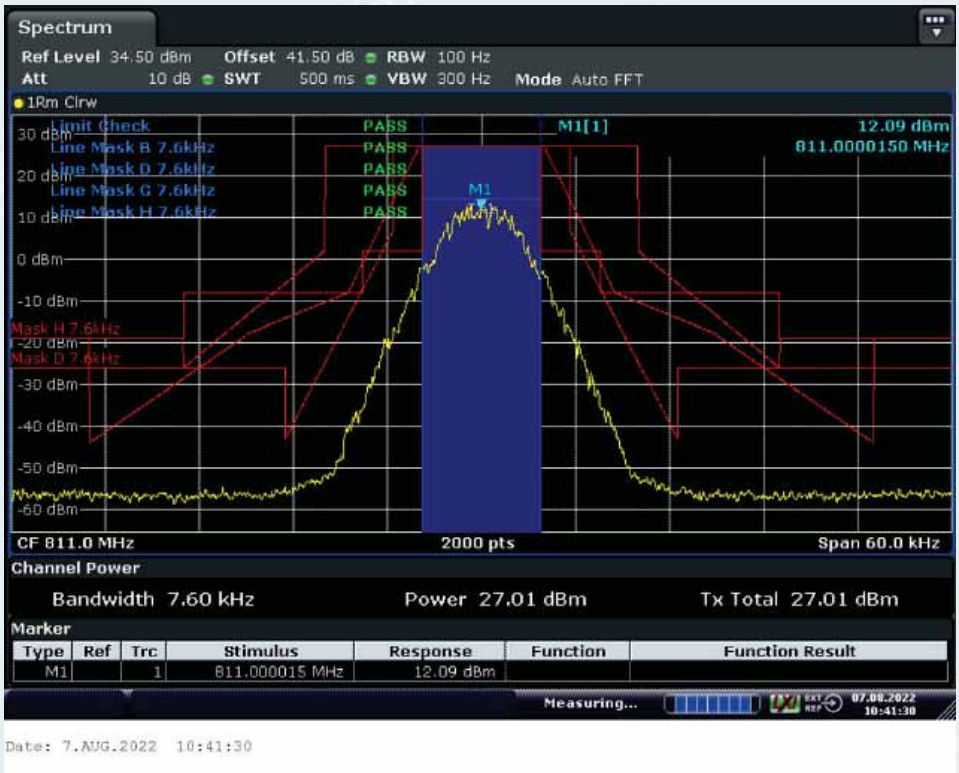



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.3.2. Uplink transmit



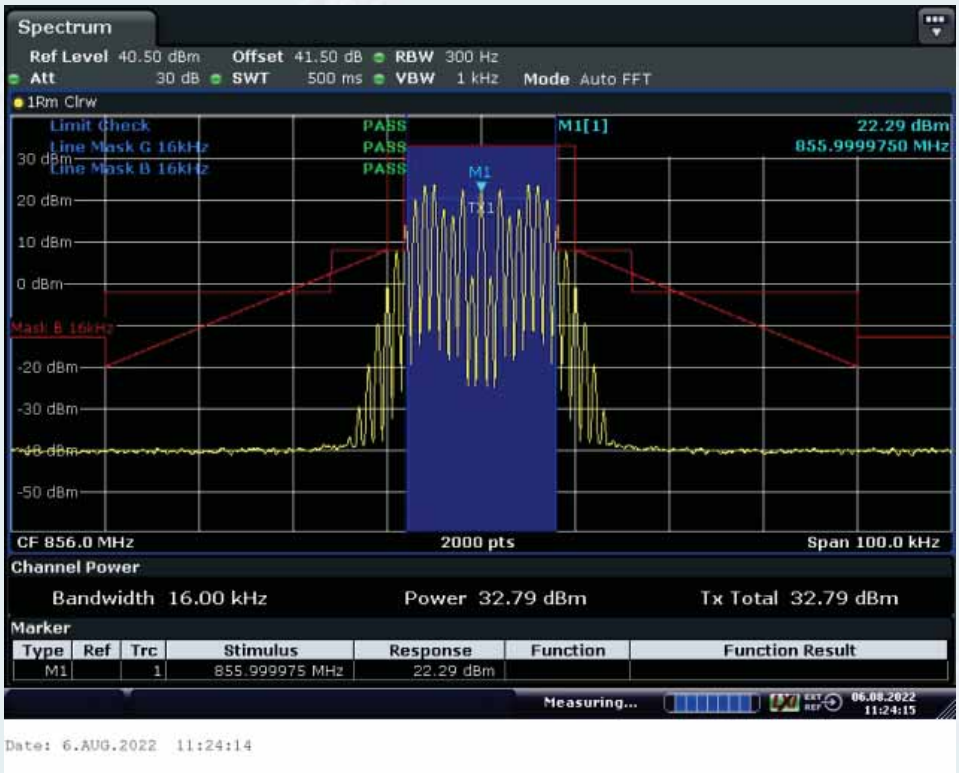

With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



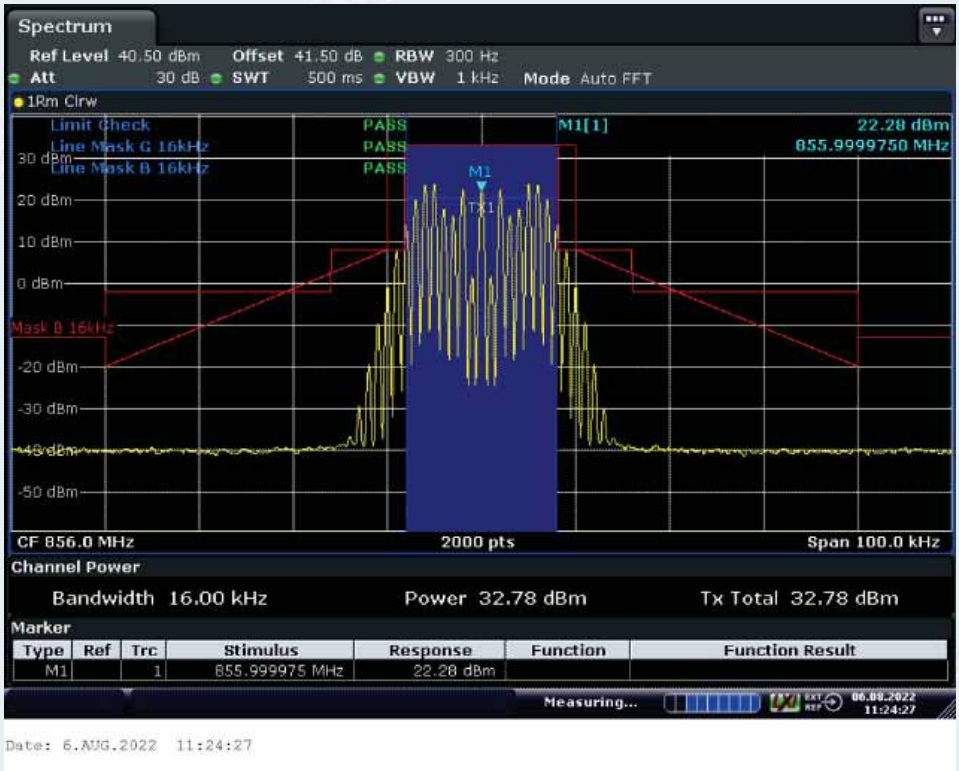

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.4. Analog FM (Mask B+ Mask G)

10.5.5.1.2.4.1. Downlink transmit

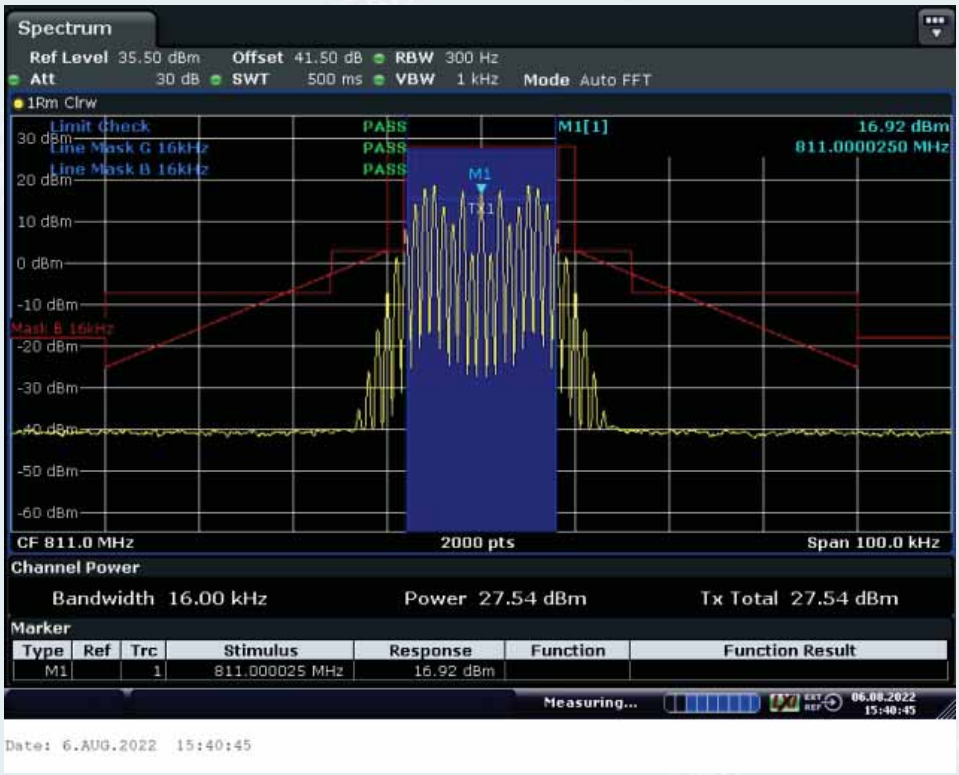



With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

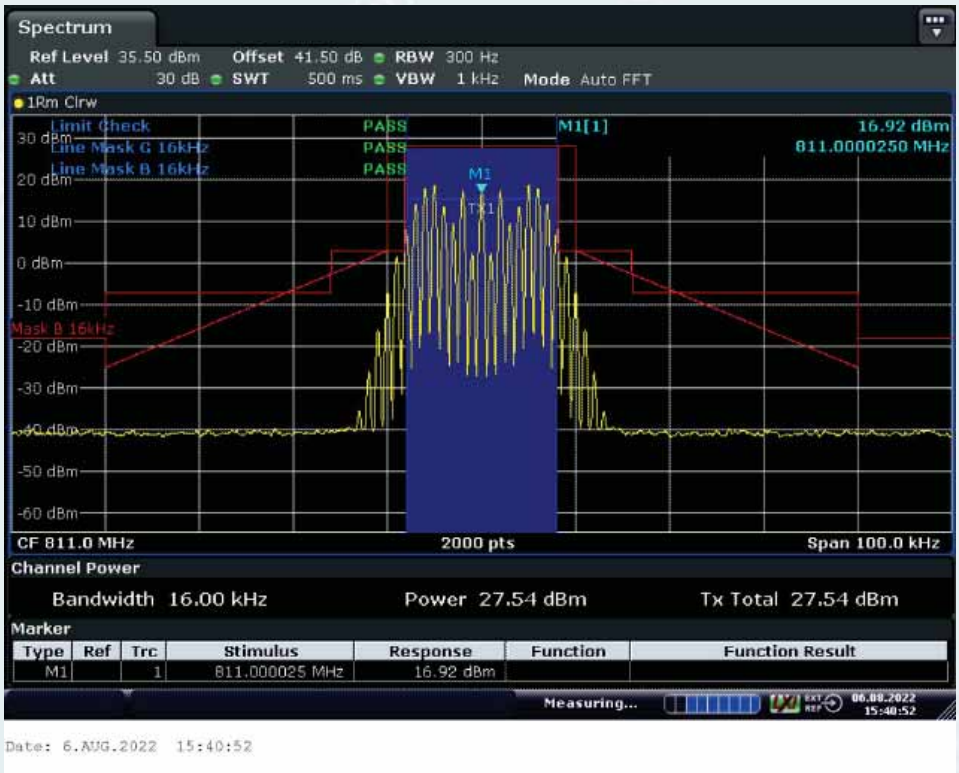



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.4.2. Uplink transmit




With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz

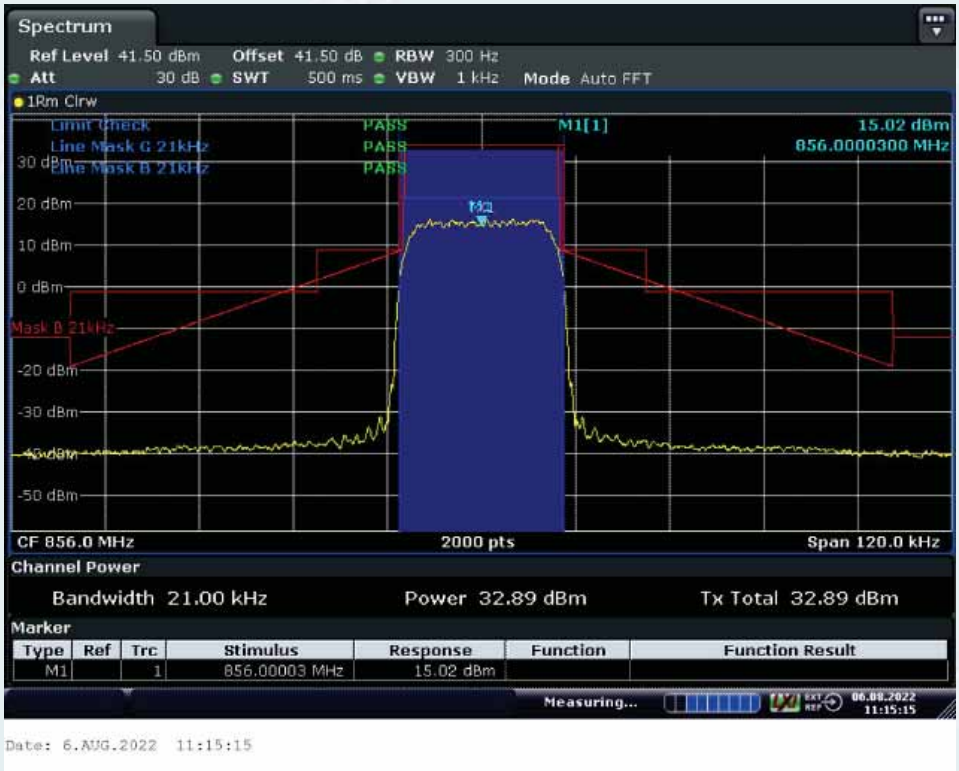



With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.5. Tetra (Mask B+ Mask G)

10.5.5.1.2.5.1. Downlink transmit

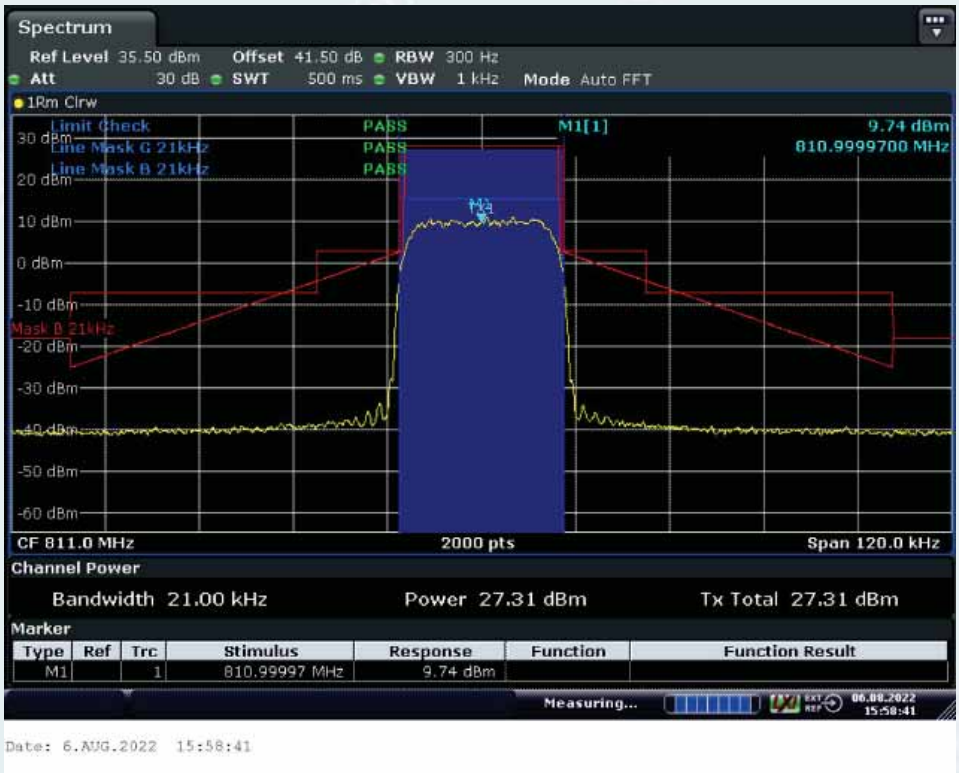
With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz




With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.5.2. Uplink transmit

With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



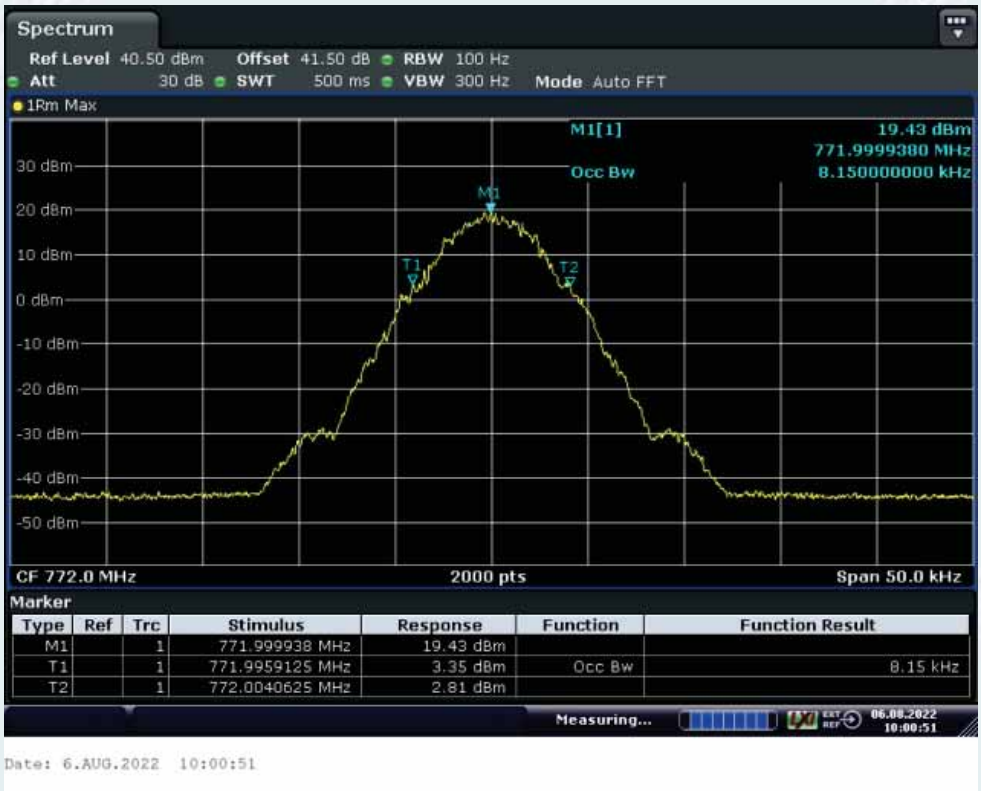

With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.2. Occupied bandwidth

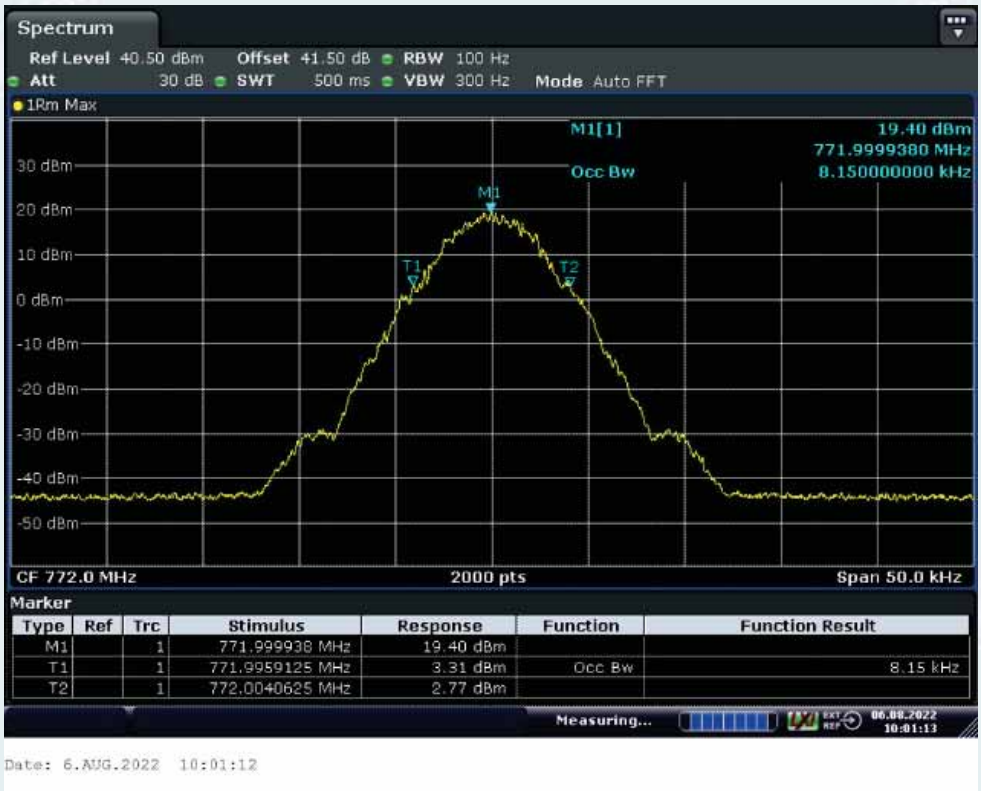
10.5.5.2.1. 700MHz Band

10.5.5.2.1.1. P25 Phase I(C4FM)

10.5.5.2.1.1.1. Downlink

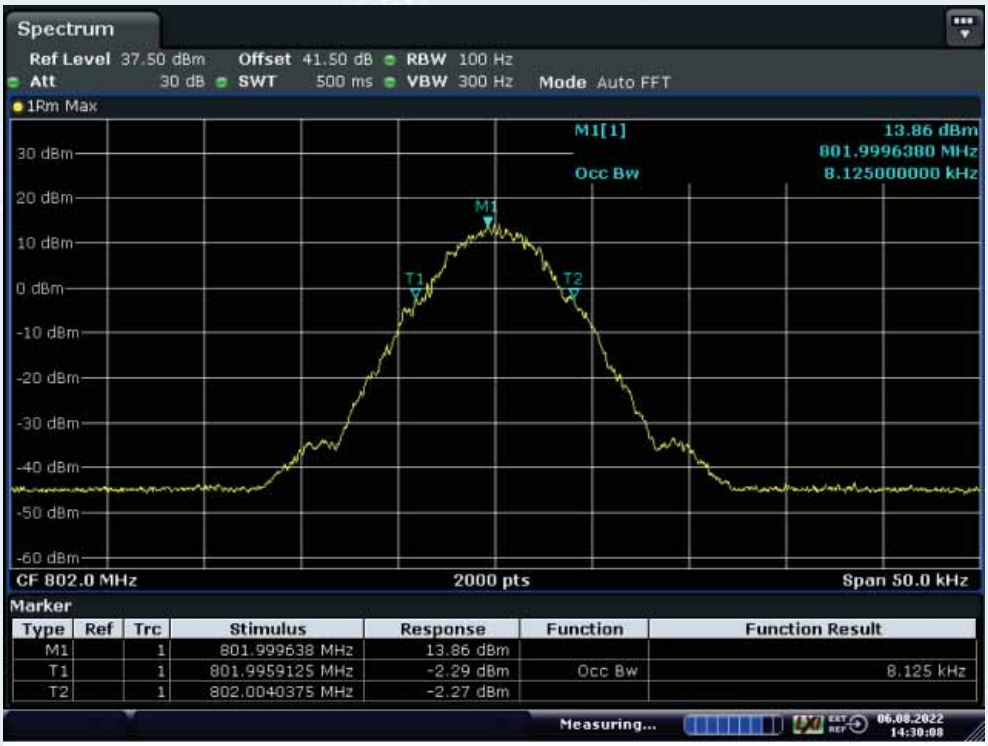



Middle Frequency: 772.0MHz, Output occupied BW(AGC)

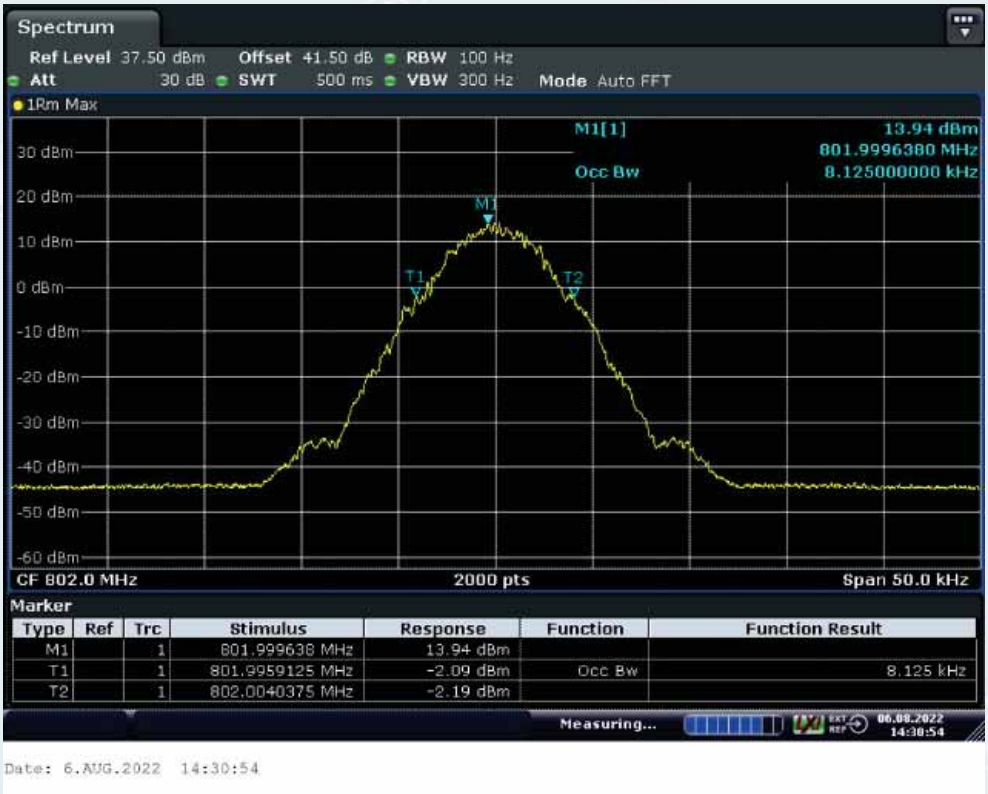



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.1.2. Uplink



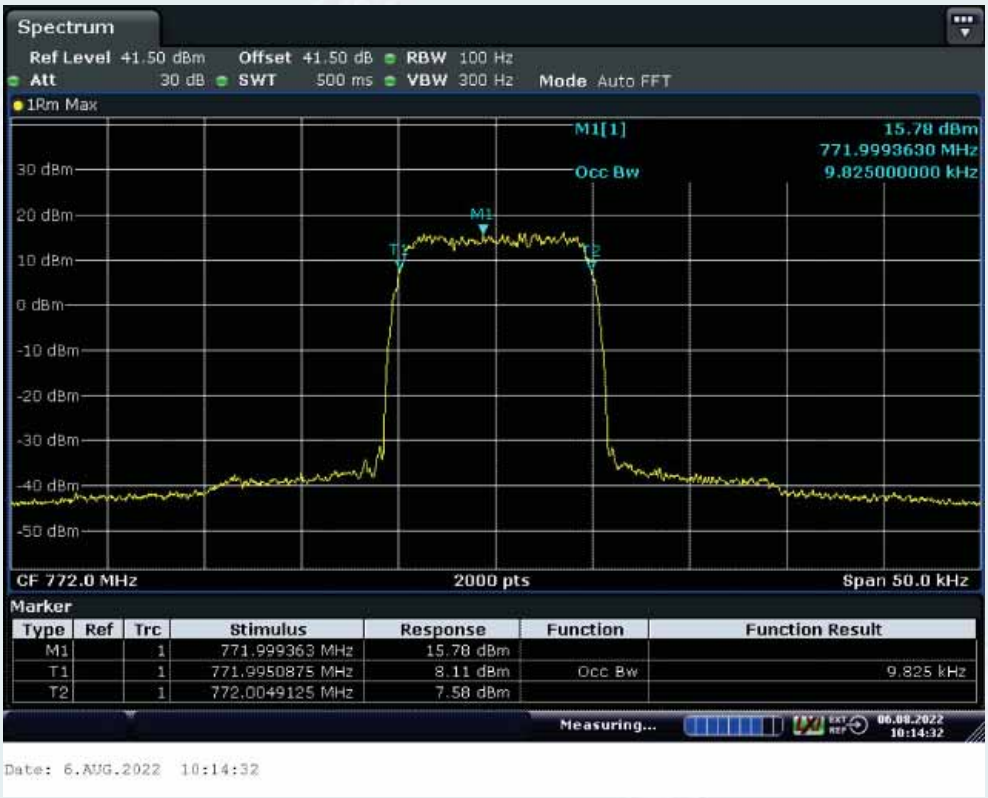

Middle Frequency: 802.0MHz, Output occupied BW(AGC)




Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.2. P25 Phase II(H-DQPSK)

10.5.5.2.1.2.1. Downlink




Middle Frequency: 772.0MHz, Output occupied BW(AGC)

Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

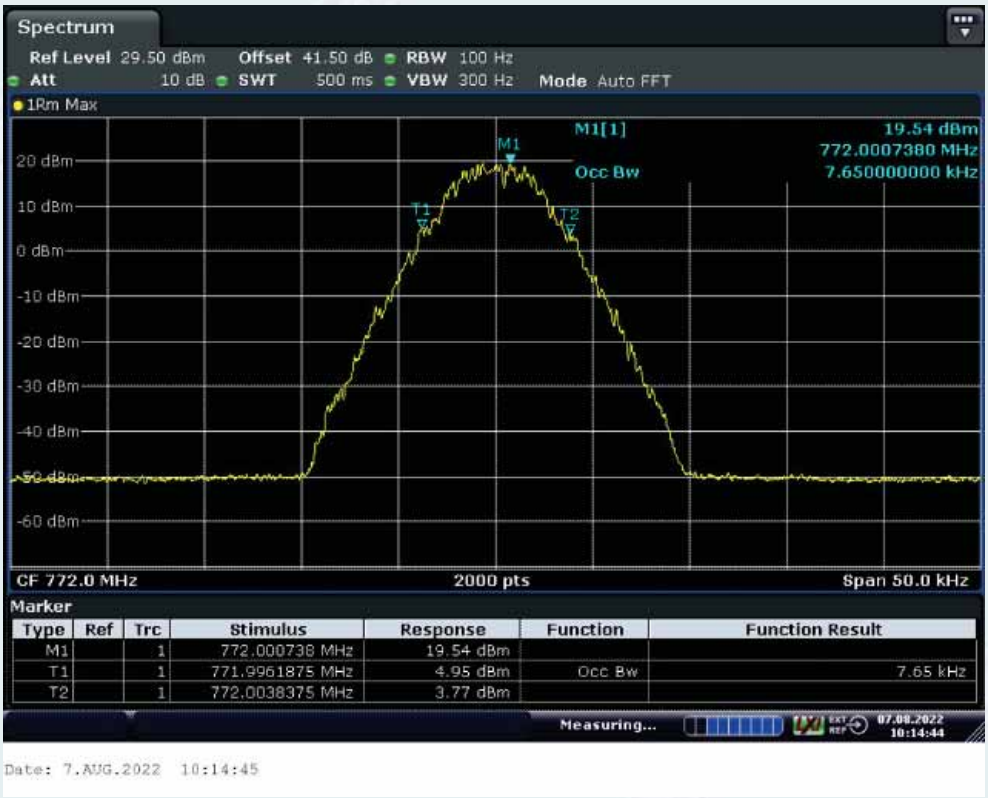
10.5.5.2.1.2.2. Uplink

Middle Frequency: 802.0MHz, Output occupied BW(AGC)

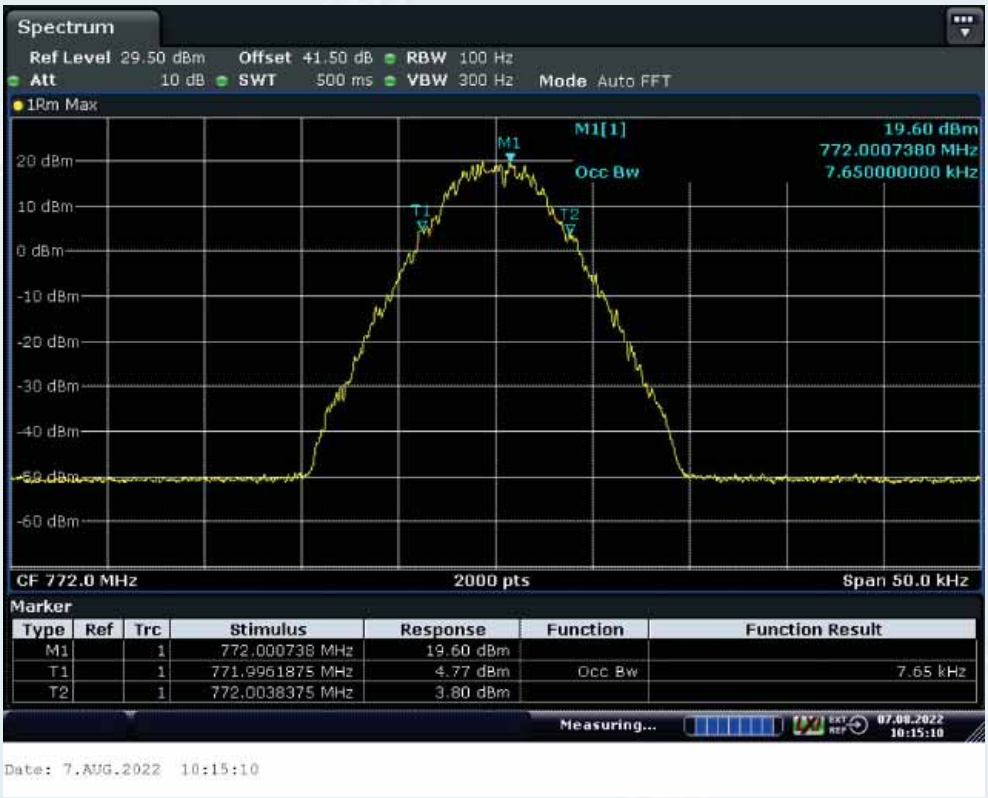
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.3. DMR

10.5.5.2.1.3.1. Downlink

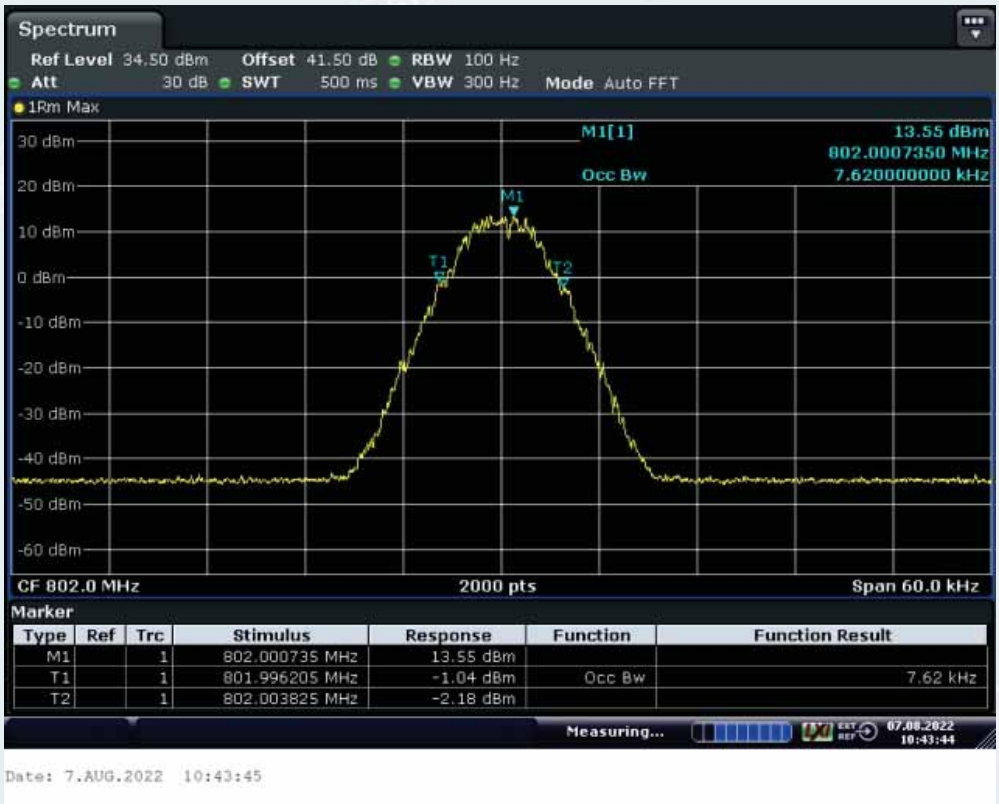



Middle Frequency: 772.0MHz, Output occupied BW(AGC)

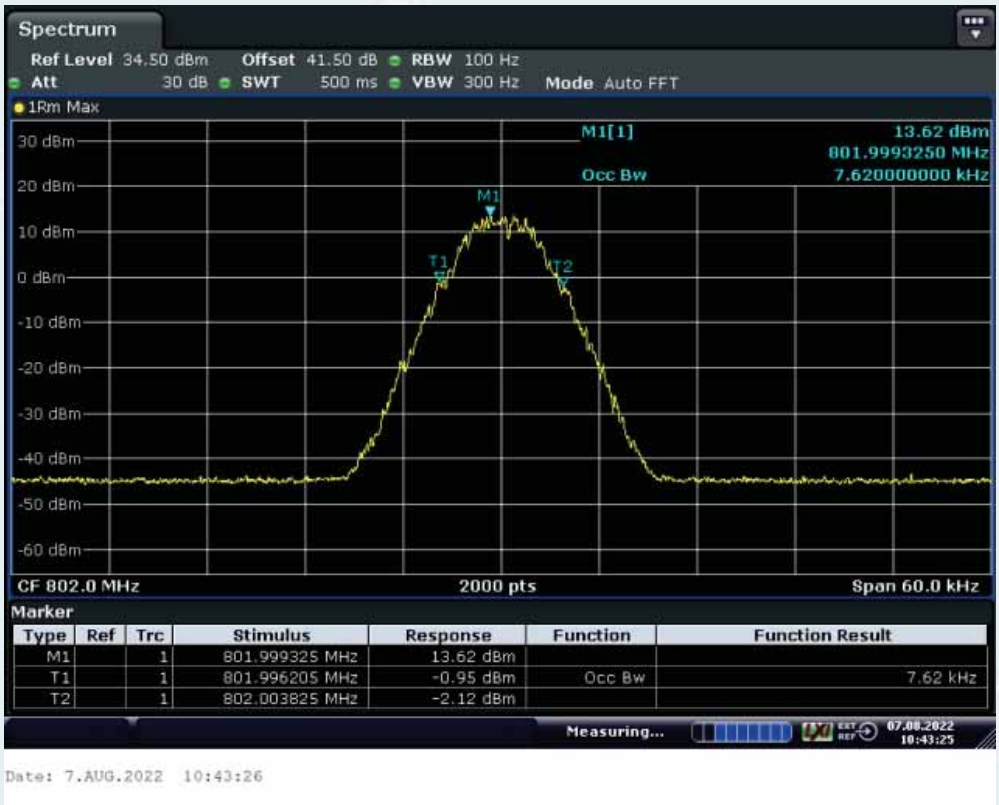



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.3.2. Uplink




Middle Frequency: 802.0MHz, Output occupied BW(AGC)




Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

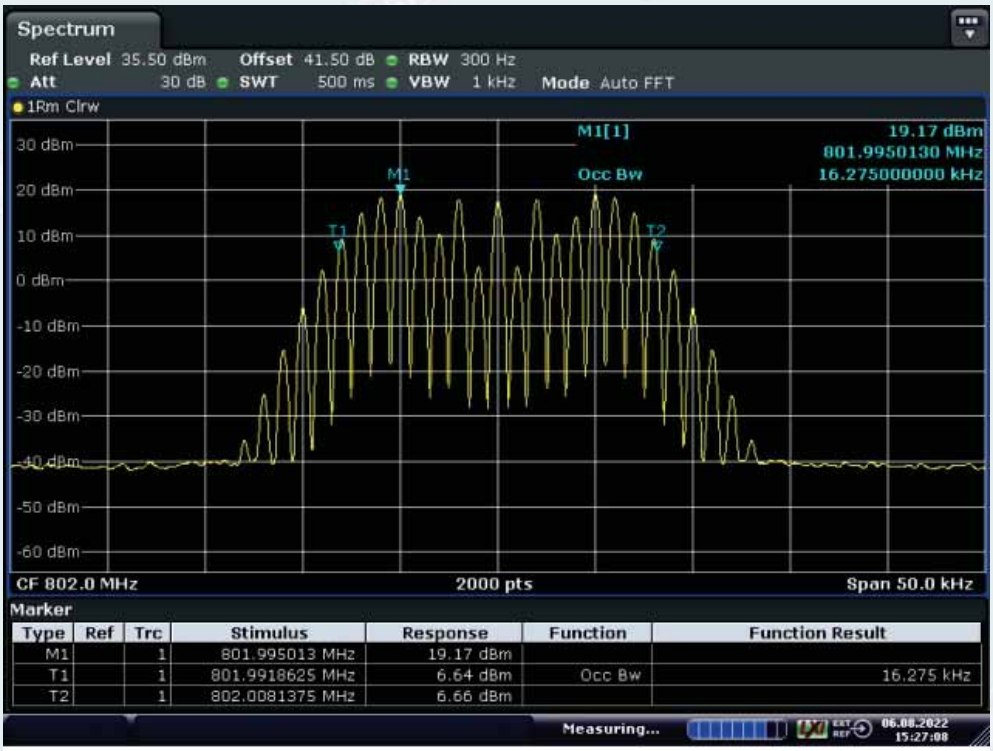
10.5.5.2.1.4. Analog FM

10.5.5.2.1.4.1. Downlink

Middle Frequency: 772.0MHz, Output occupied BW(AGC)

Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.4.2. Uplink

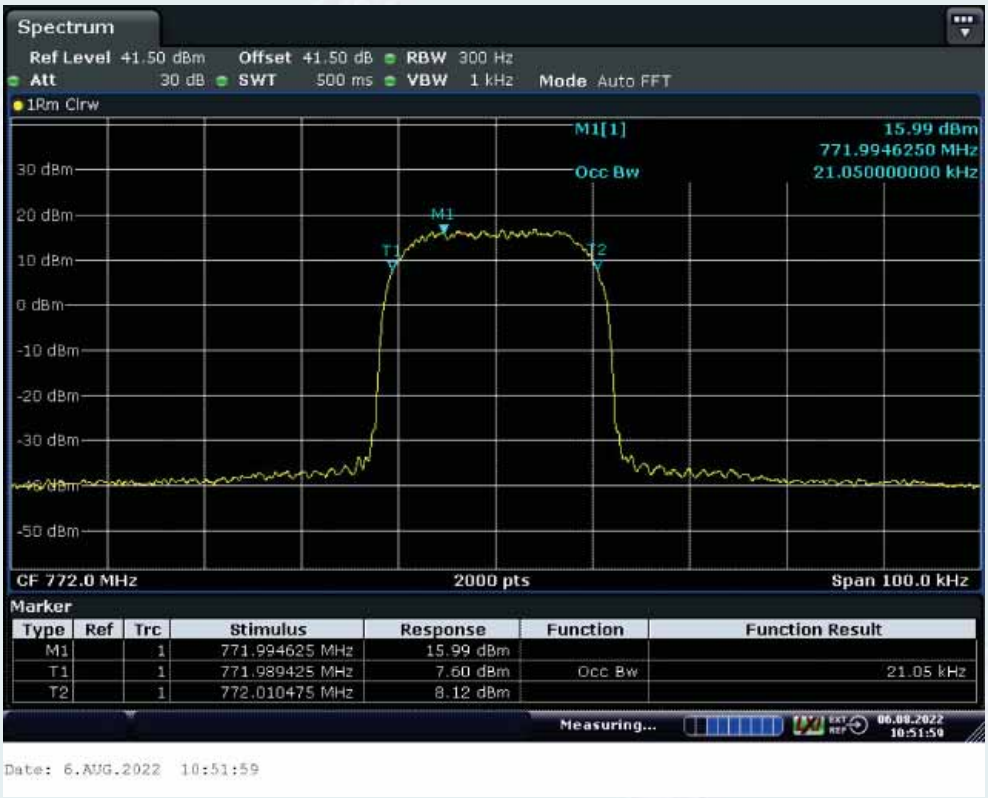



Middle Frequency: 802.0MHz, Output occupied BW(AGC)

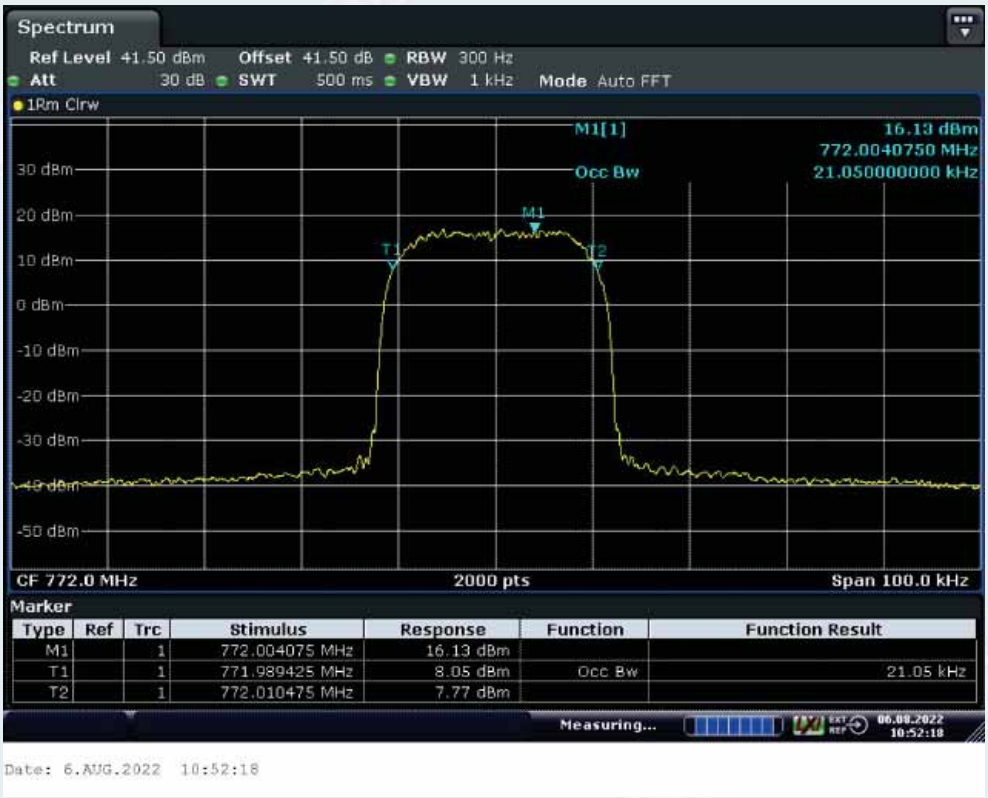
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.5. Tetra

10.5.5.2.1.5.1. Downlink

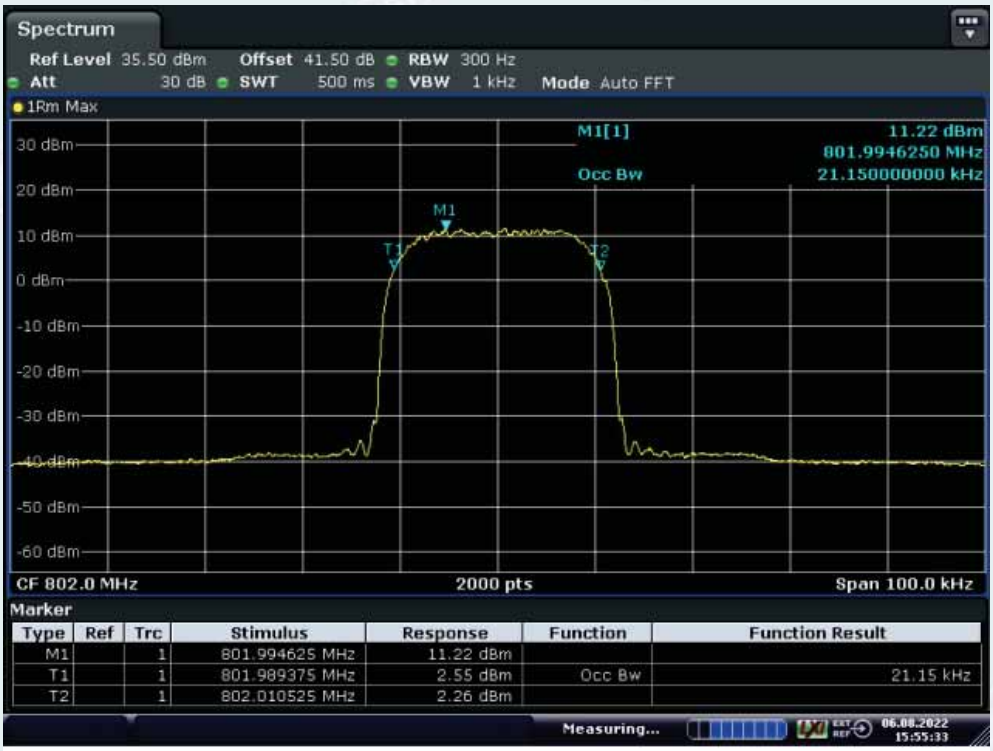



Middle Frequency: 772.0MHz, Output occupied BW(AGC)




Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.5.2. Uplink




Middle Frequency: 802.0MHz, Output occupied BW(AGC)

Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2. 800MHz Band

10.5.5.2.2.1. P25 Phase I(C4FM)

10.5.5.2.2.1.1. Downlink

Middle Frequency: 856.0MHz, Output occupied BW(AGC)

Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.1.2. Uplink

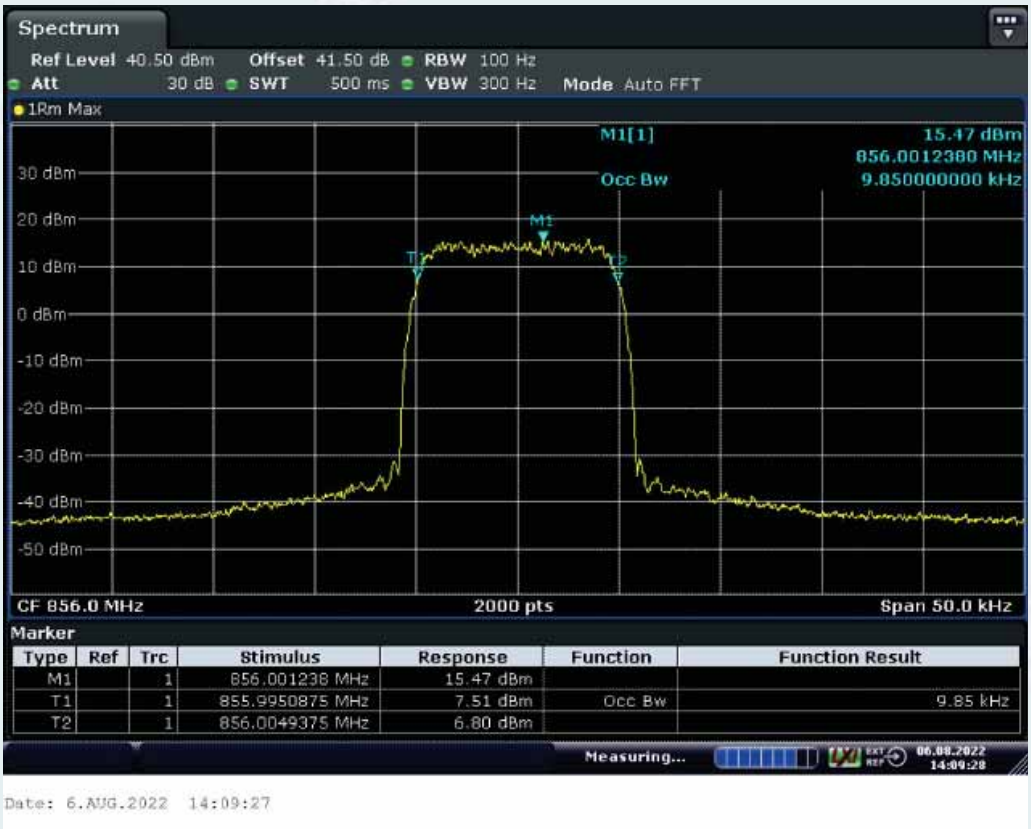
Middle Frequency: 811.0MHz, Output occupied BW(AGC)

Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.2. P25 Phase II(H-DQPSK)

10.5.5.2.2.2.1. Downlink

Middle Frequency: 856.0MHz, Output occupied BW(AGC)




Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

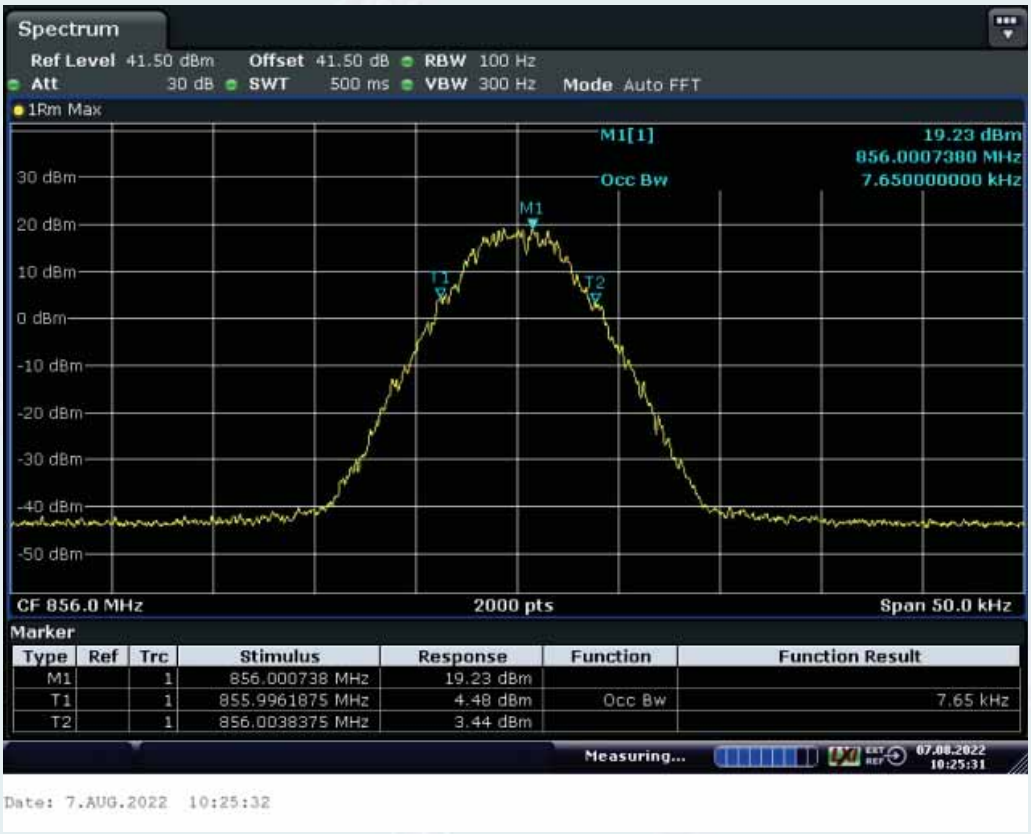
10.5.5.2.2.2.2. Uplink

Middle Frequency: 811.0MHz, Output occupied BW(AGC)

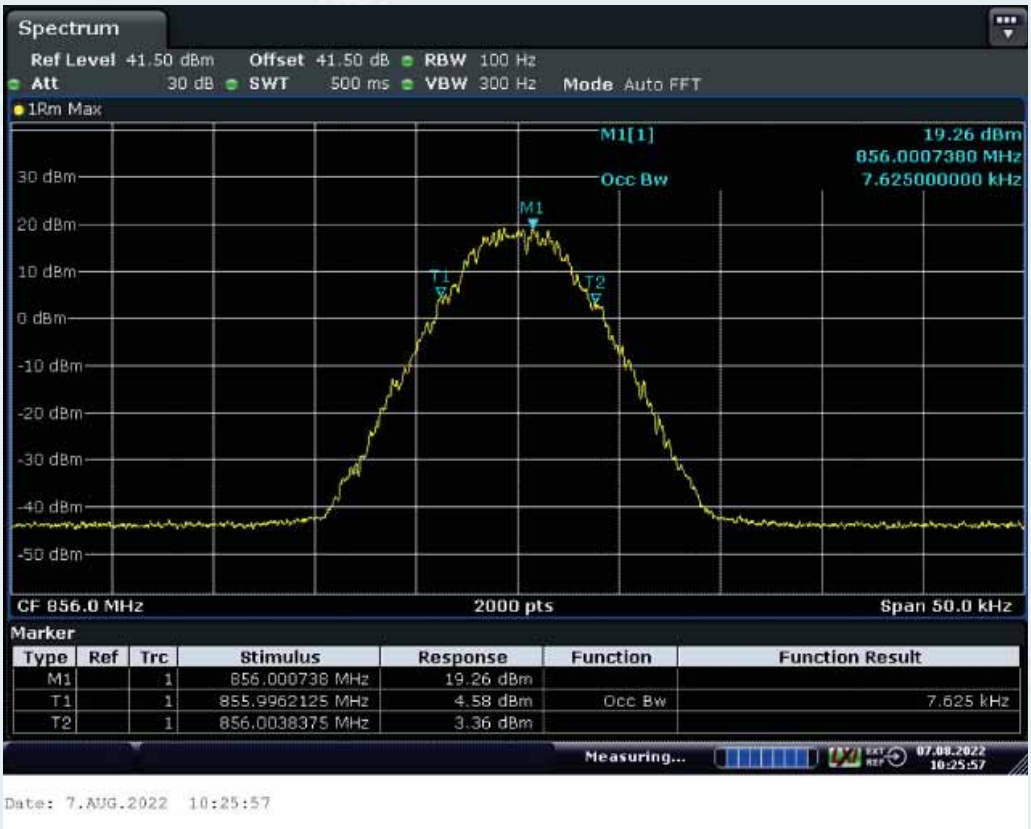
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.3. DMR

10.5.5.2.2.3.1. Downlink

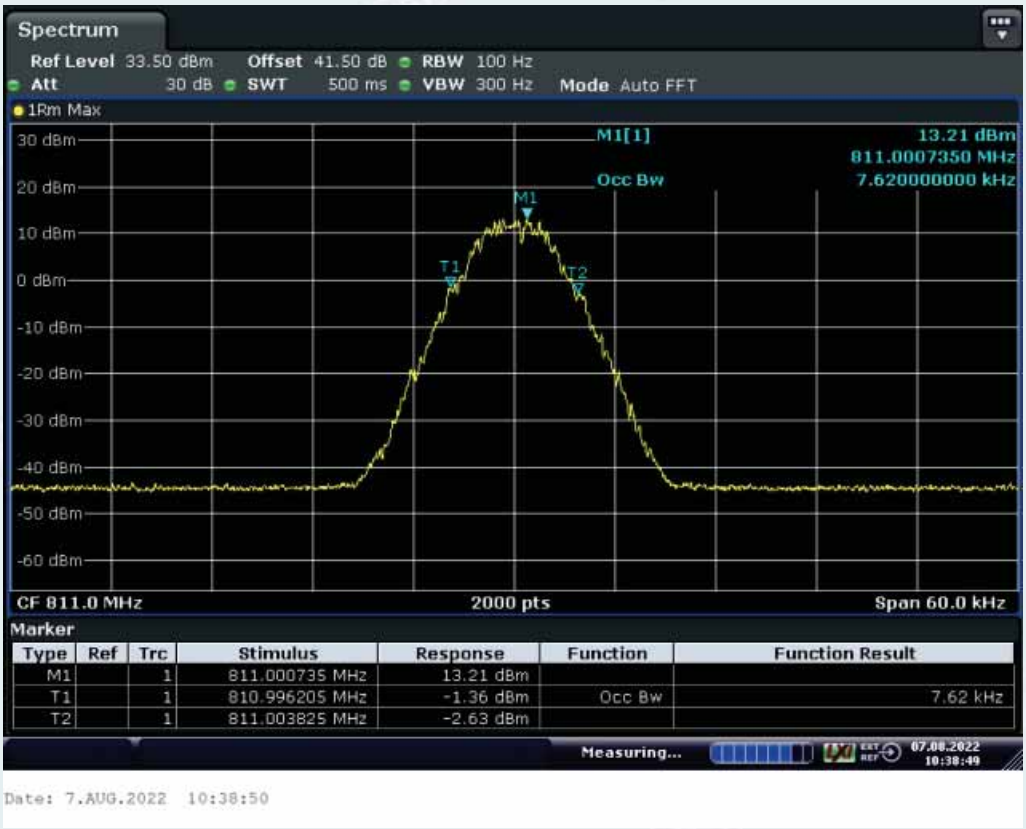



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

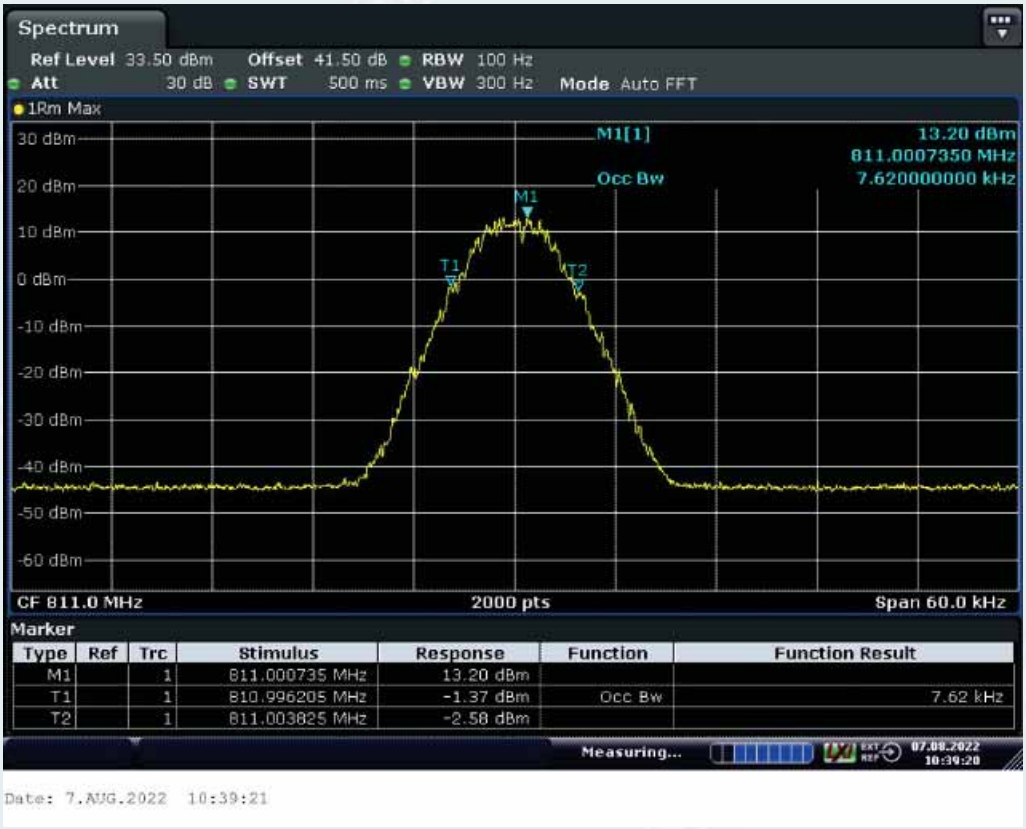



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.3.2. Uplink



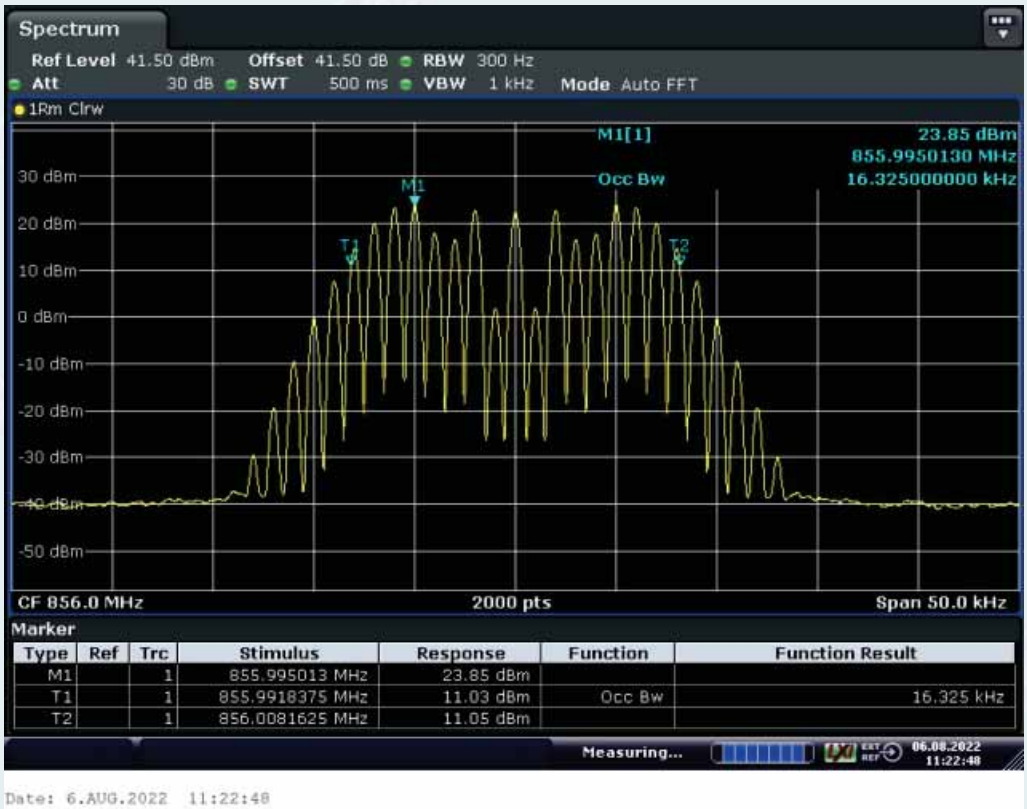

Middle Frequency: 811.0MHz, Output occupied BW(AGC)




Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.4. Analog FM

10.5.5.2.2.4.1. Downlink




Middle Frequency: 856.0MHz, Output occupied BW(AGC)

Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

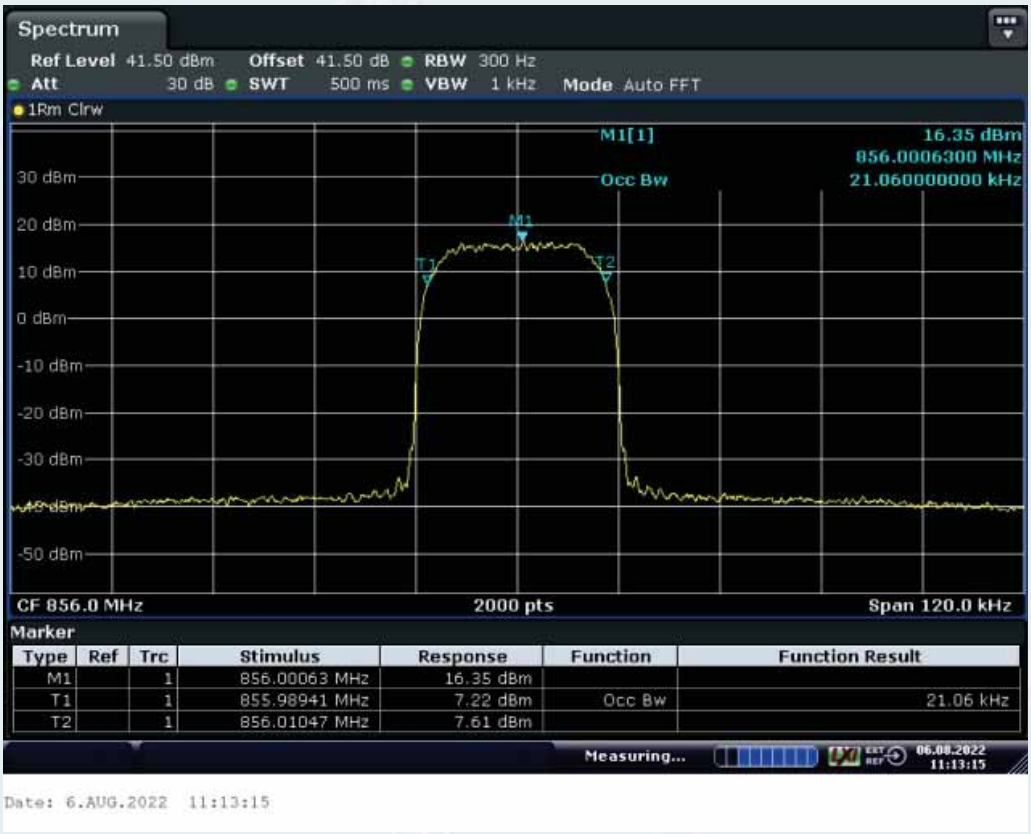
10.5.5.2.2.4.2. Uplink

Middle Frequency: 811.0MHz, Output occupied BW(AGC)

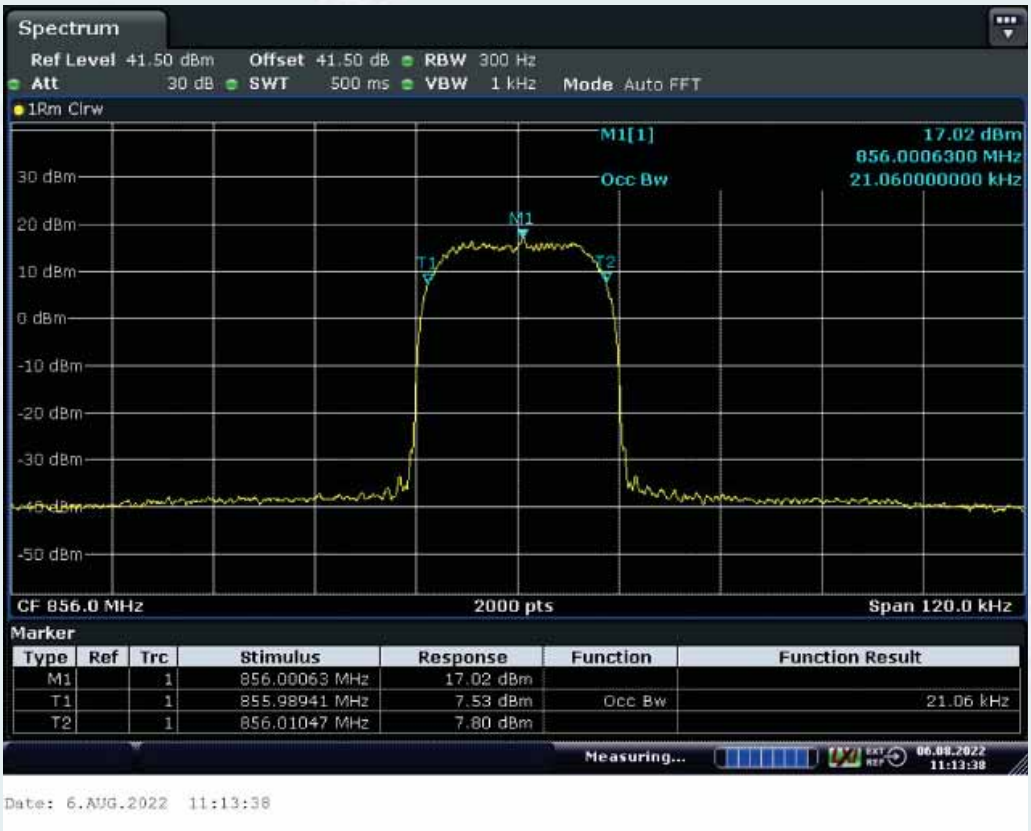
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.5. Tetra

10.5.5.2.2.5.1. Downlink




Middle Frequency: 856.0MHz, Output occupied BW(AGC)




Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.5.2. Uplink

Middle Frequency: 811.0MHz, Output occupied BW(AGC)

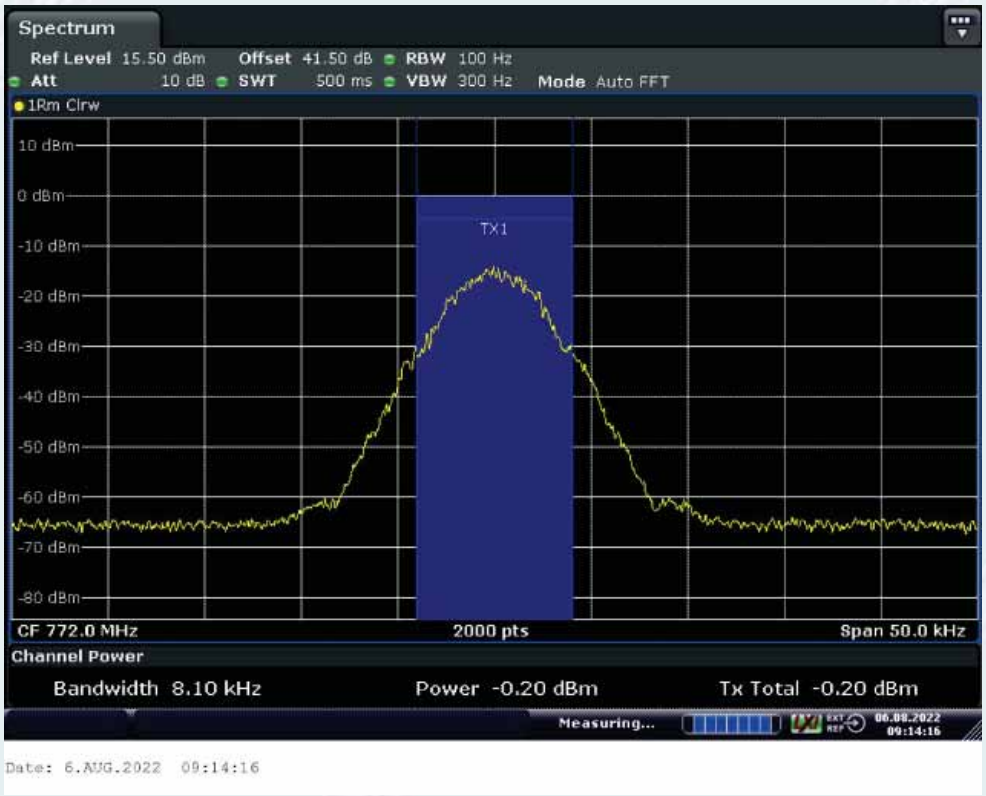
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3. Input VS output Comparison

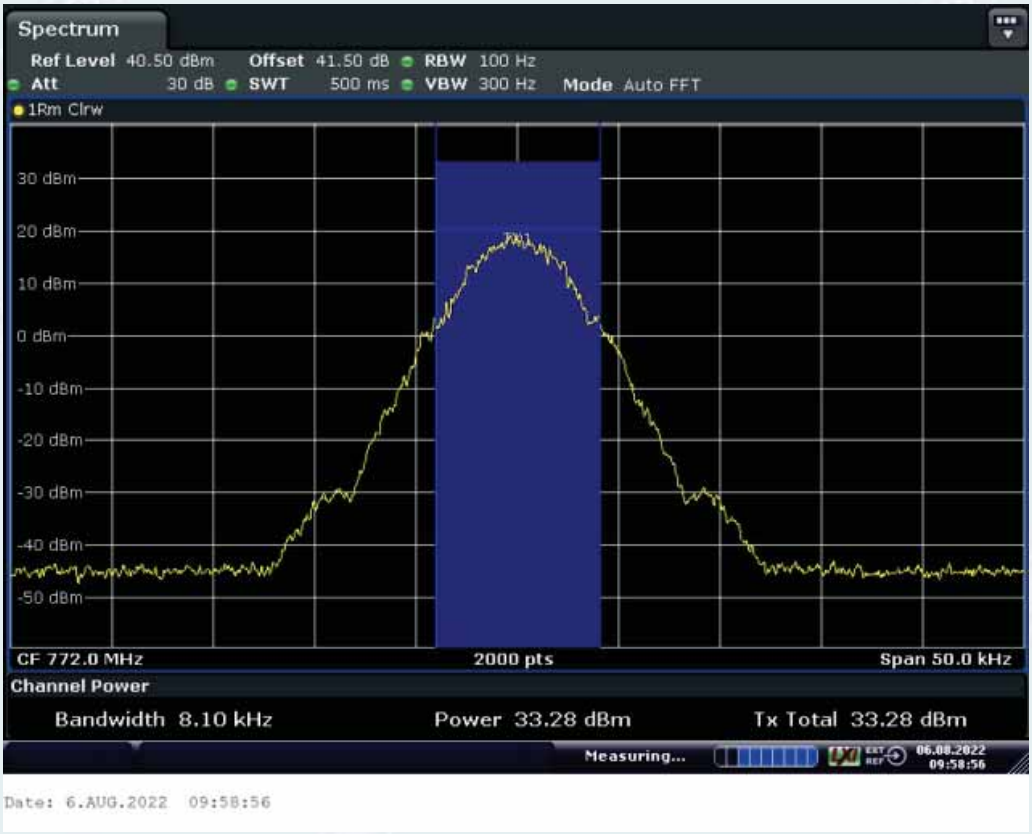
10.5.5.3.1. 700MHz Band

10.5.5.3.1.1. P25 Phase I(C4FM)

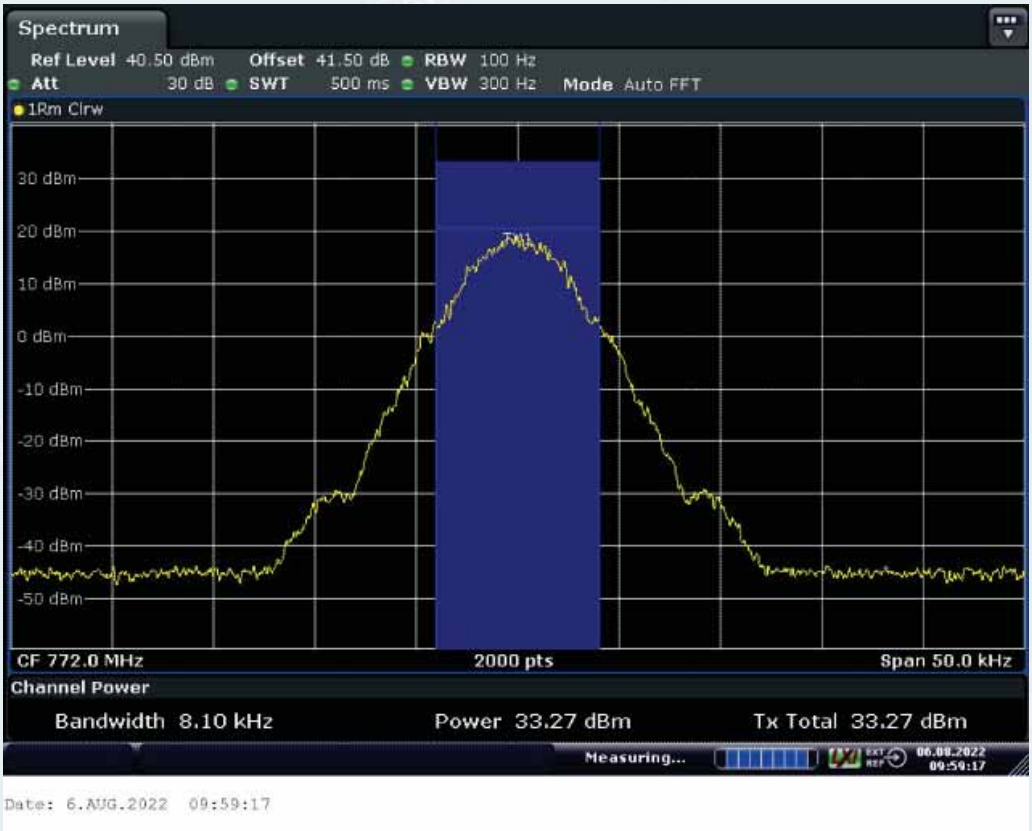
10.5.5.3.1.1.1. Downlink




Middle Frequency: 772.0MHz, Input occupied BW

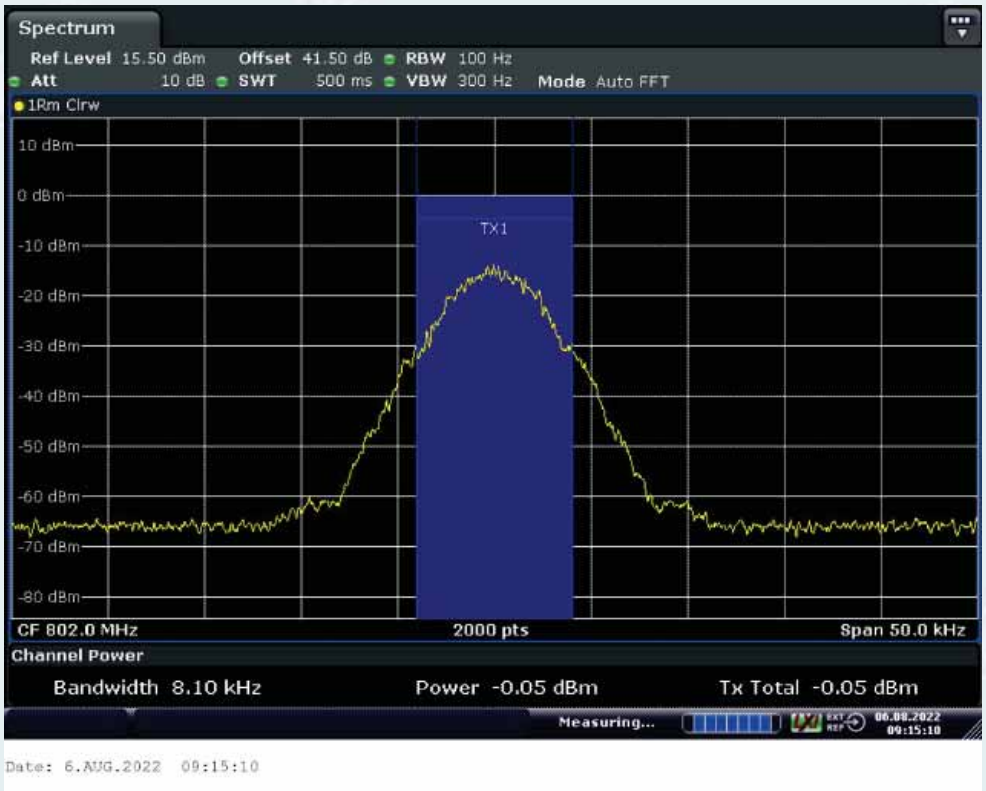



Middle Frequency: 772.0MHz, Output occupied BW(AGC)

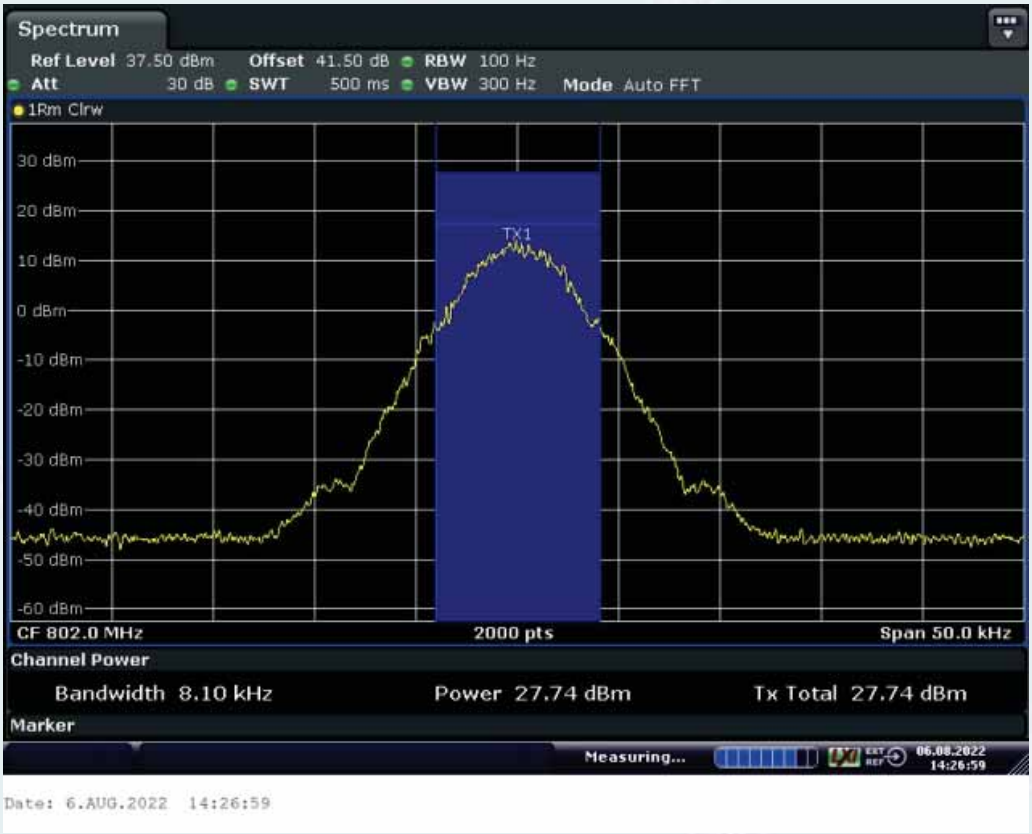



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

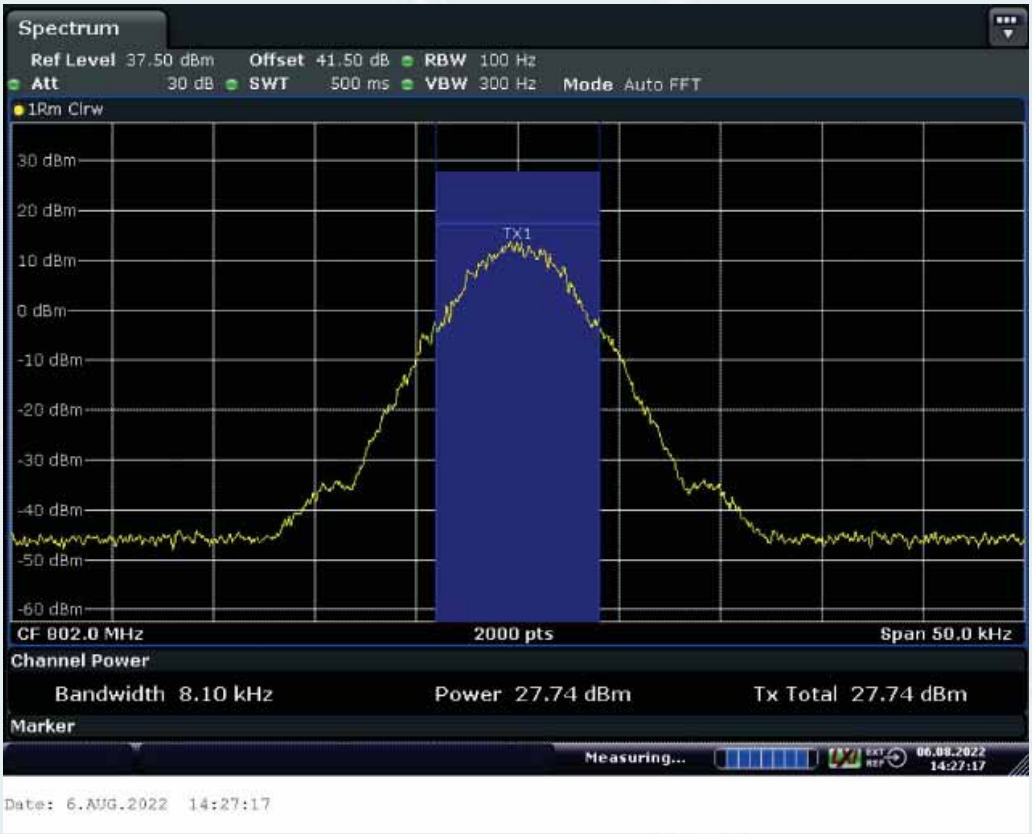
10.5.5.3.1.1.2. Uplink




Middle Frequency: 802.0MHz MHz, Input occupied BW



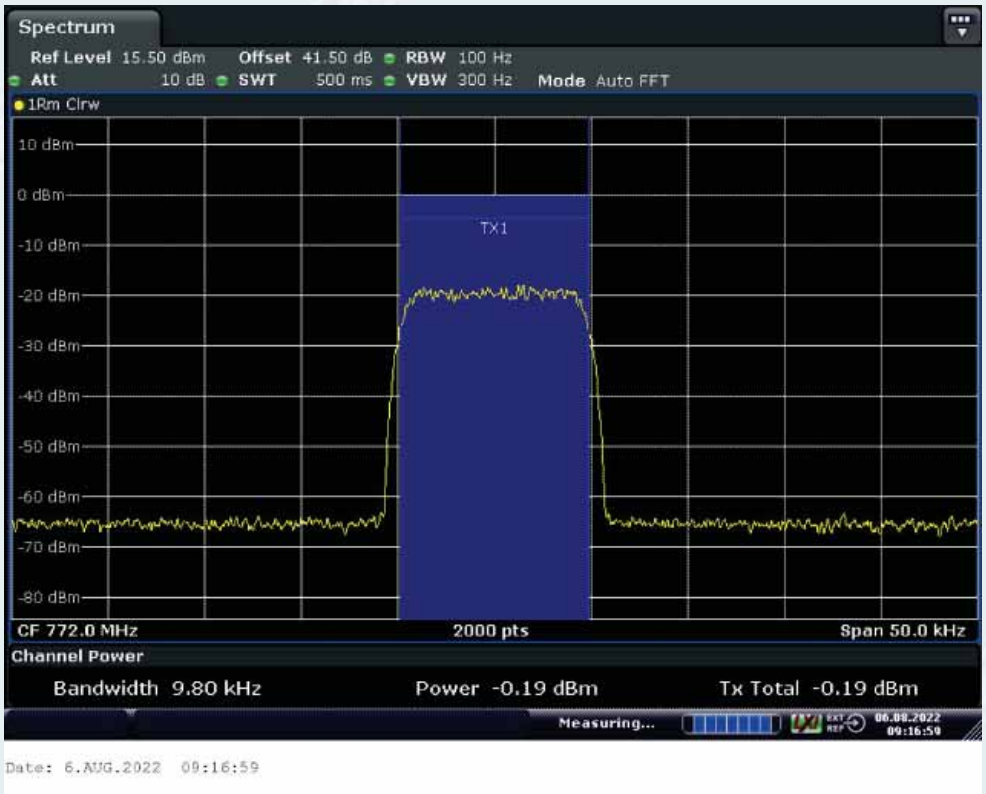

Middle Frequency: 802.0MHz, Output occupied BW(AGC)




Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

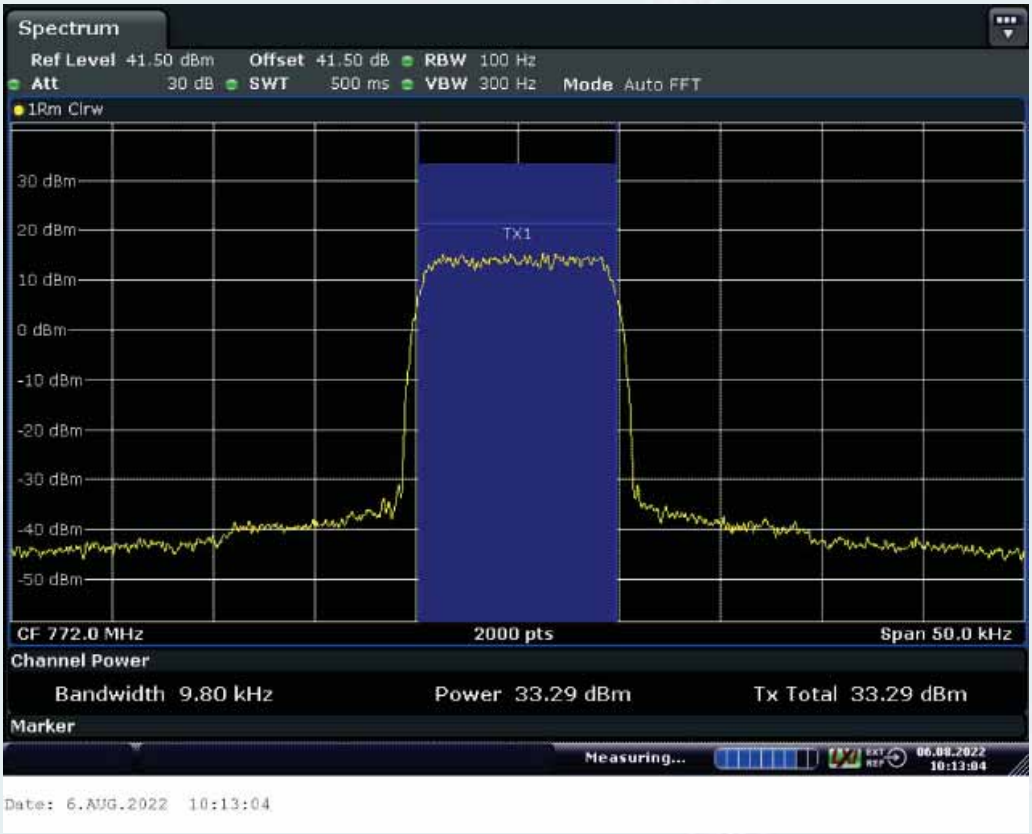
10.5.5.3.1.2. P25 Phase II(H-DQPSK)

10.5.5.3.1.2.1. Downlink



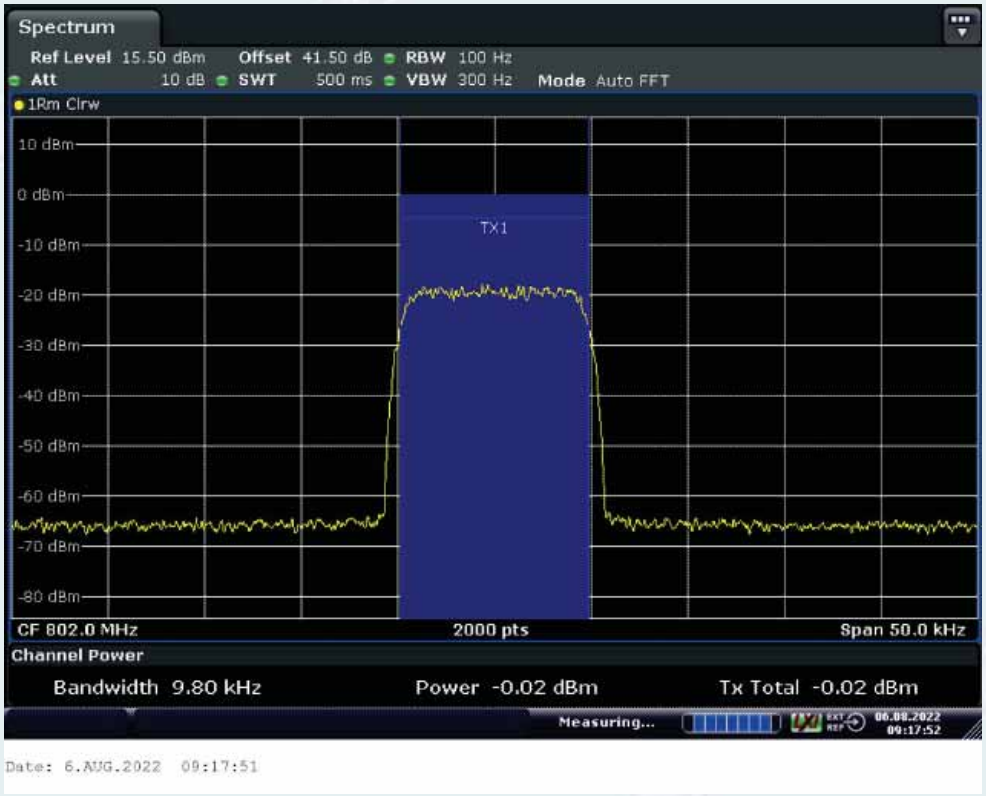

Middle Frequency: 772.0MHz, Input occupied BW

Middle Frequency: 772.0MHz, Output occupied BW(AGC)

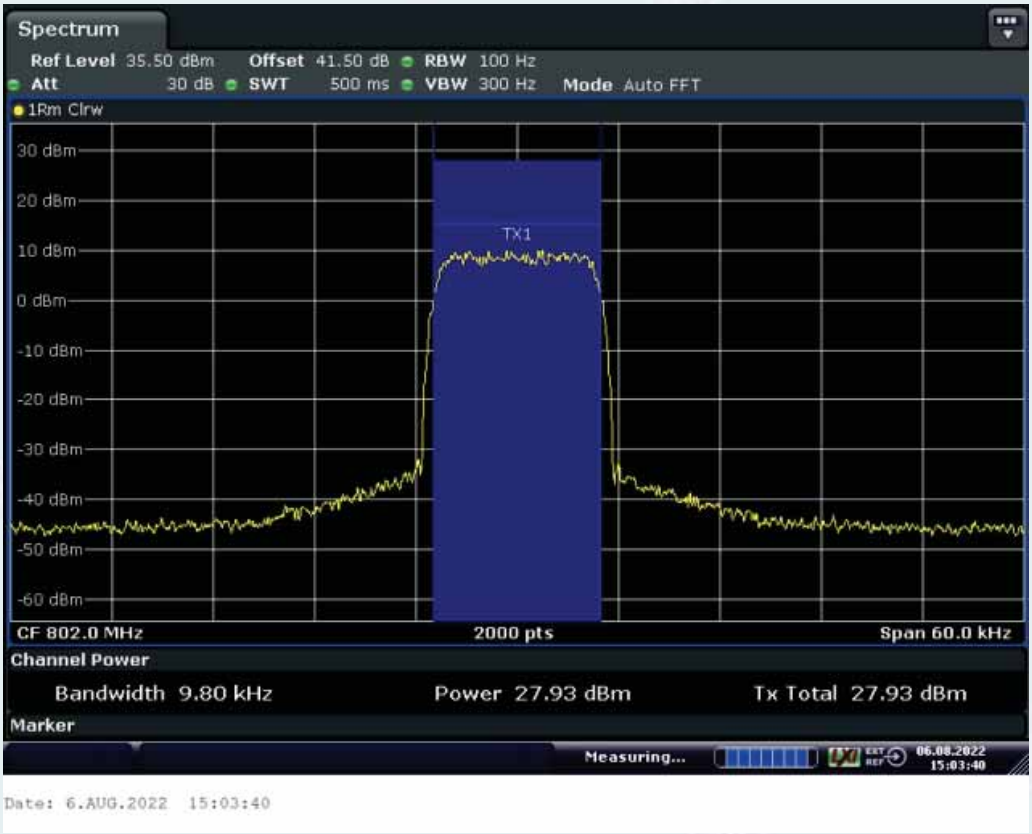



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

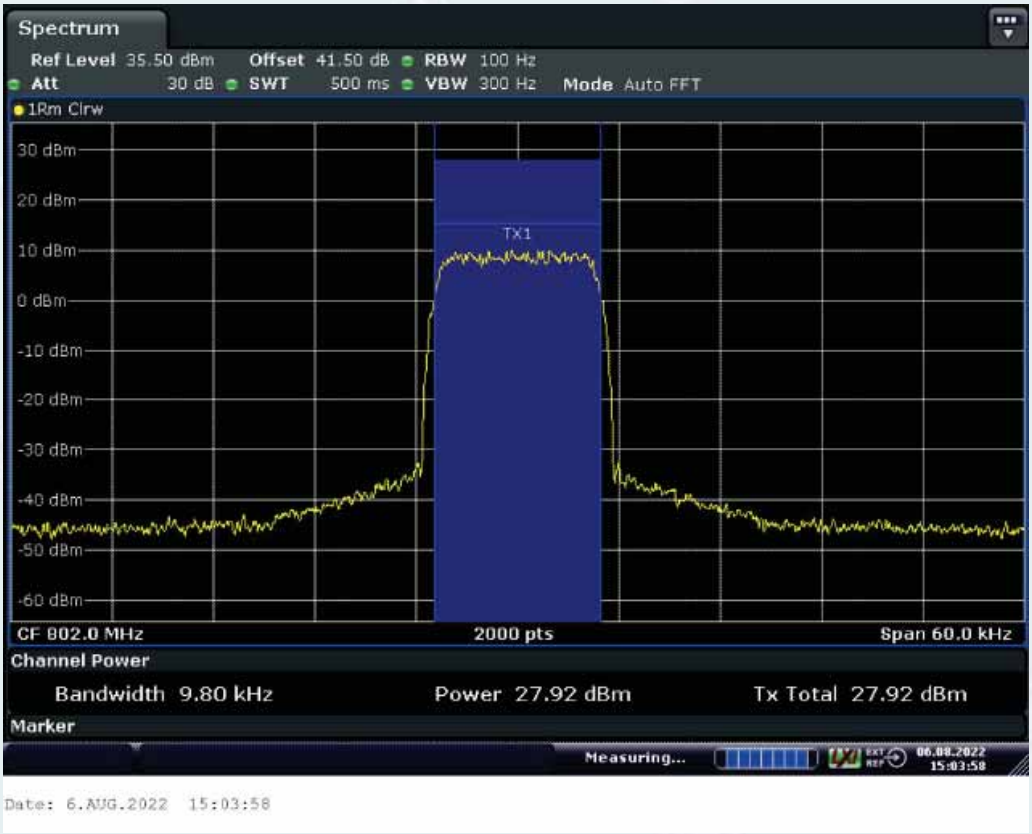
10.5.5.3.1.2.2. Uplink




Middle Frequency: 802.0MHz MHz, Input occupied BW



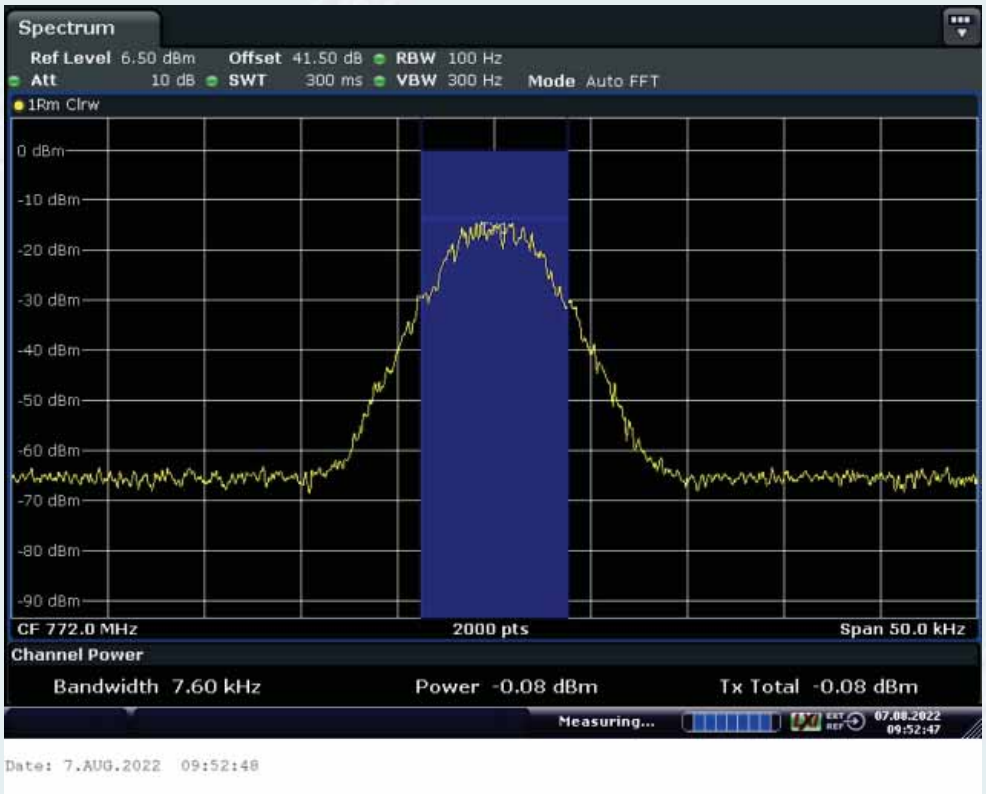

Middle Frequency: 802.0MHz, Output occupied BW(AGC)



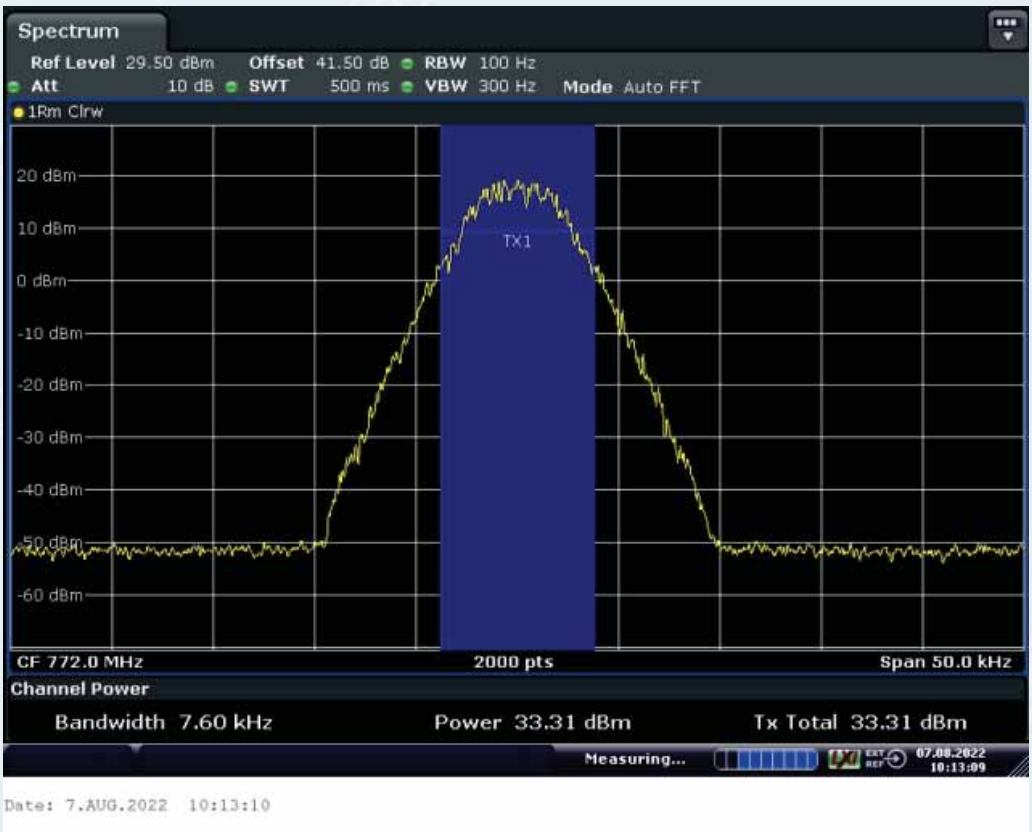

Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.3. DMR

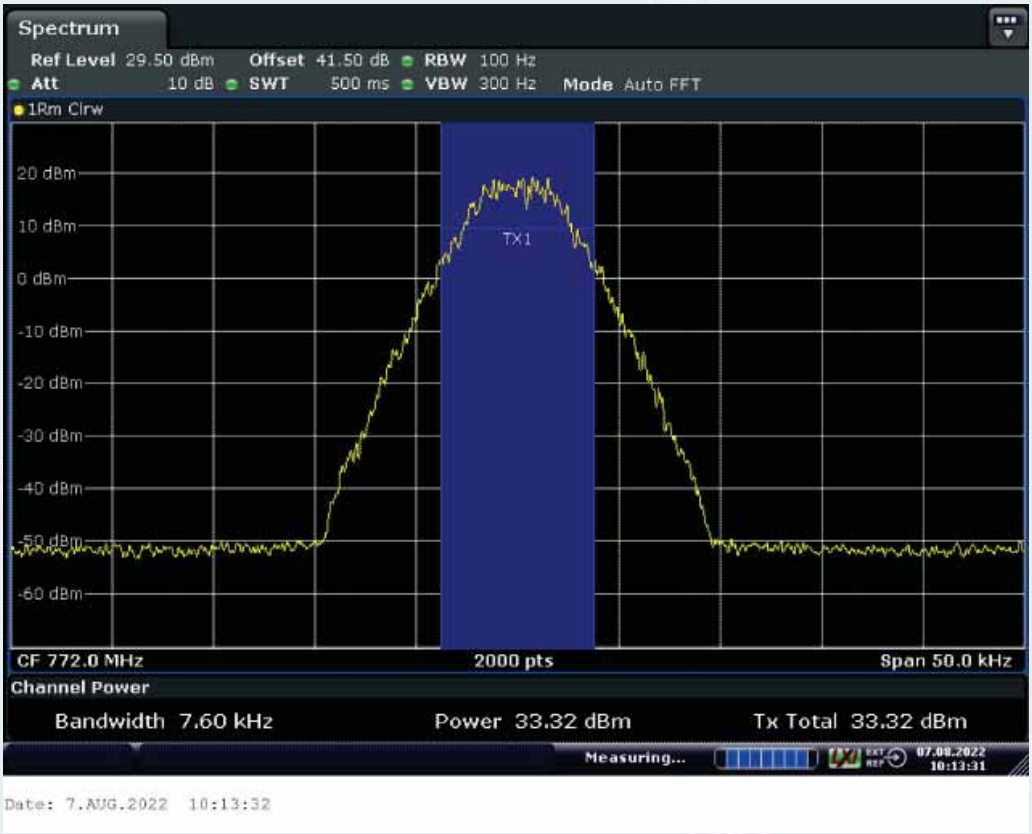
10.5.5.3.1.3.1. Downlink




Middle Frequency: 772.0MHz, Input occupied BW

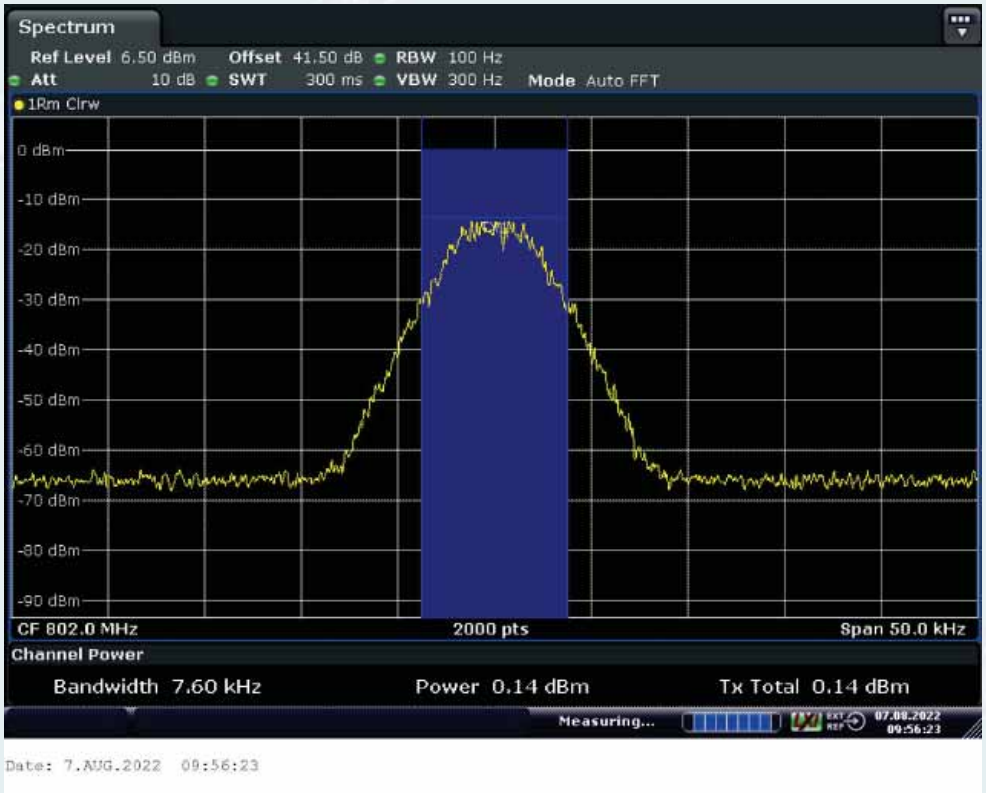



Middle Frequency: 772.0MHz, Output occupied BW(AGC)

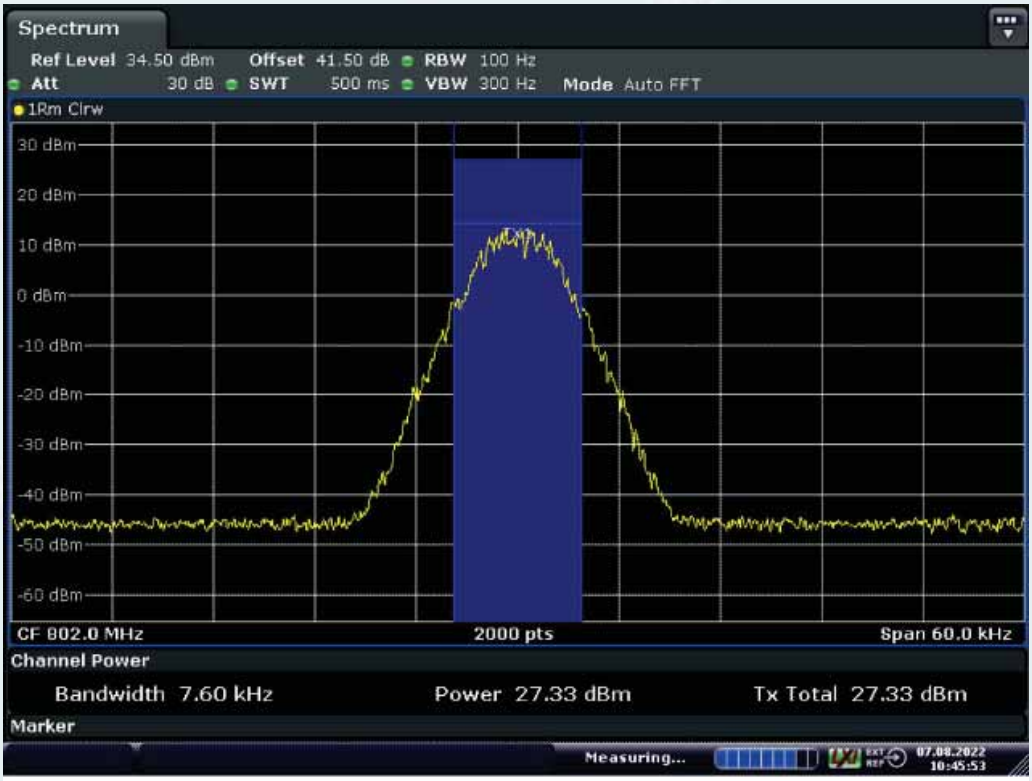



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

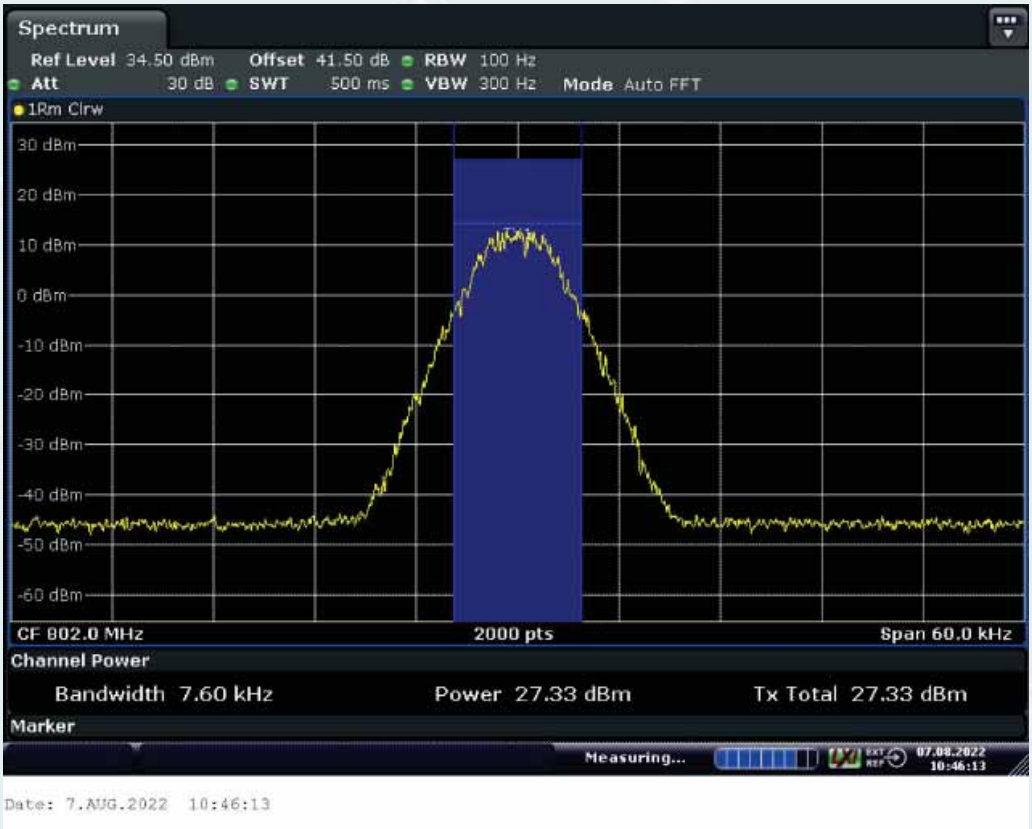
10.5.5.3.1.3.2. Uplink




Middle Frequency: 802.0MHz MHz, Input occupied BW



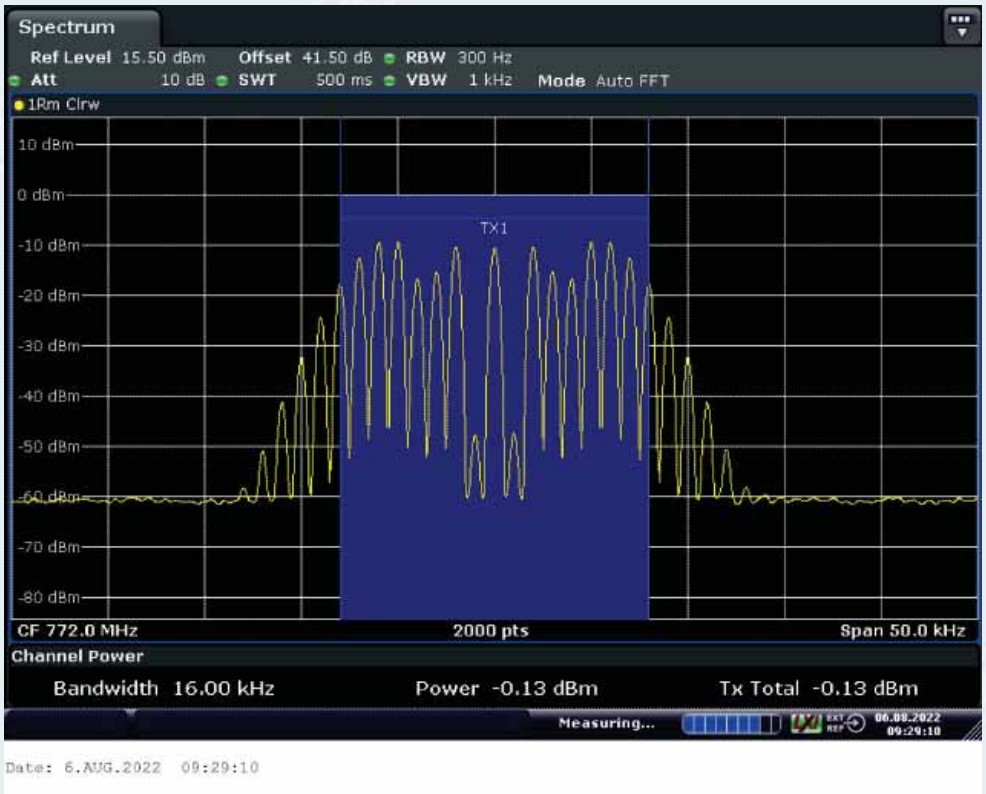

Middle Frequency: 802.0MHz, Output occupied BW(AGC)



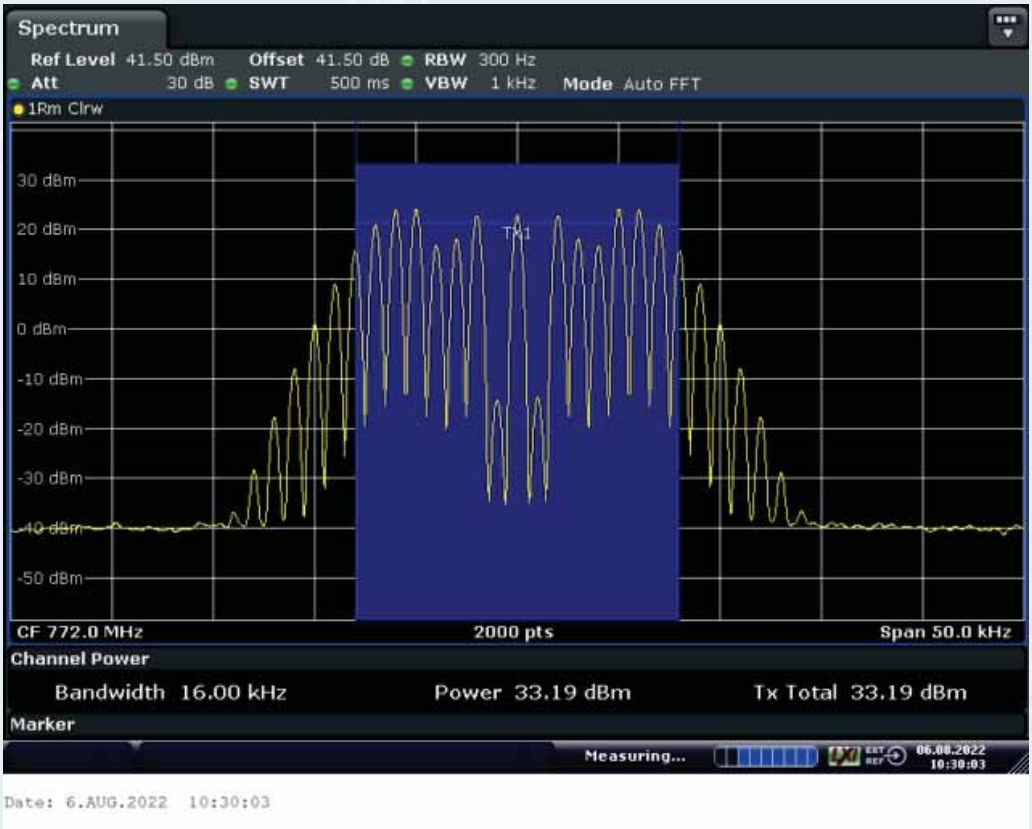

Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.4. Analog FM

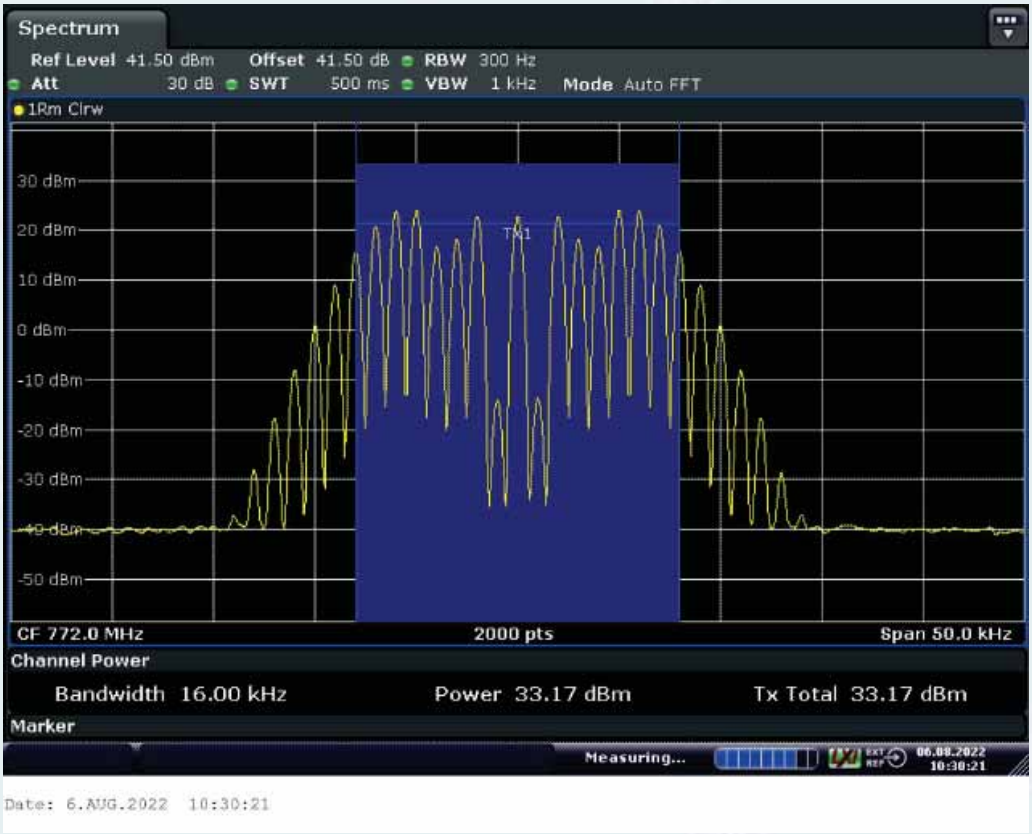
10.5.5.3.1.4.1. Downlink




Middle Frequency: 772.0MHz, Input occupied BW

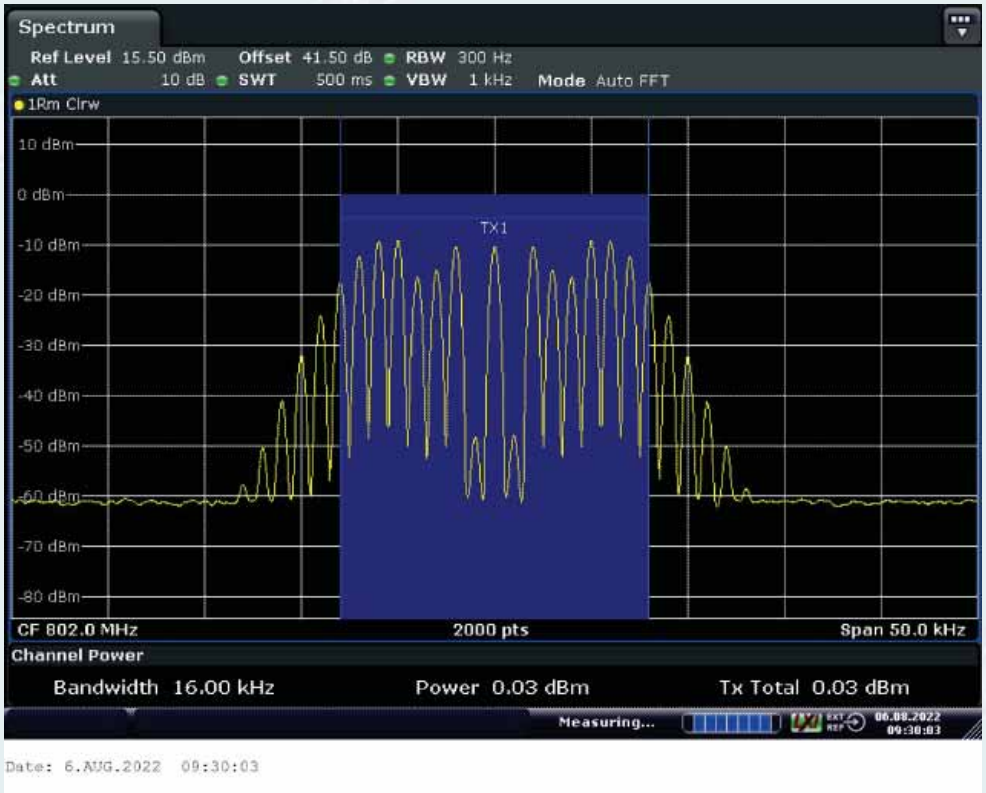



Middle Frequency: 772.0MHz, Output occupied BW(AGC)

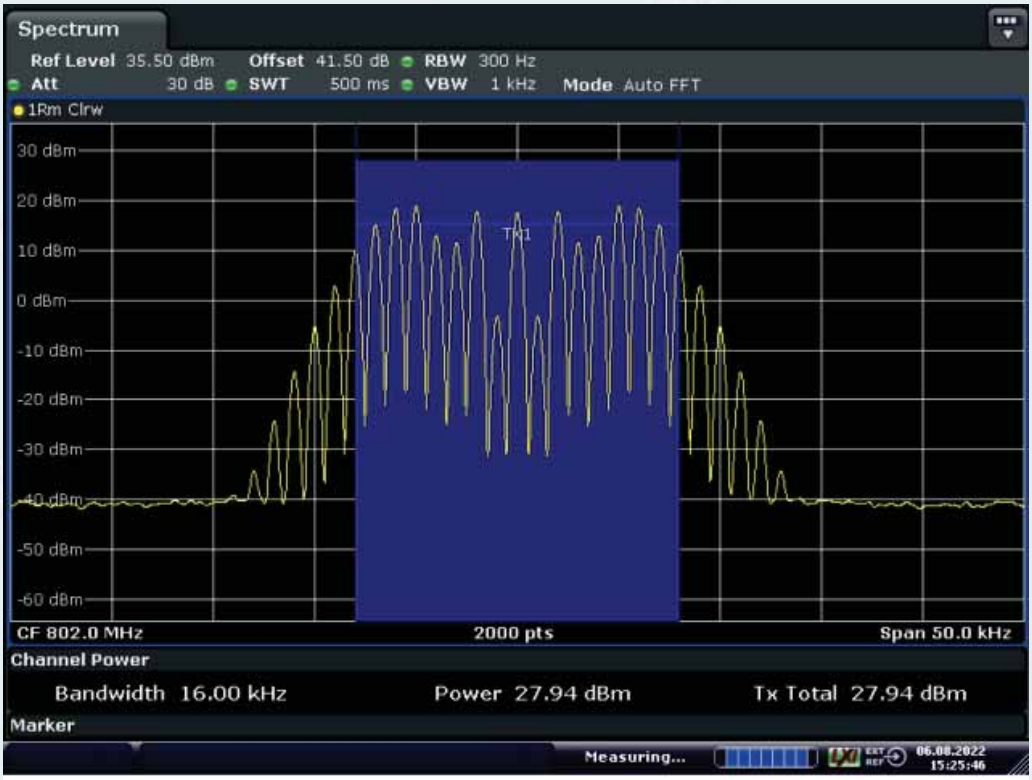



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

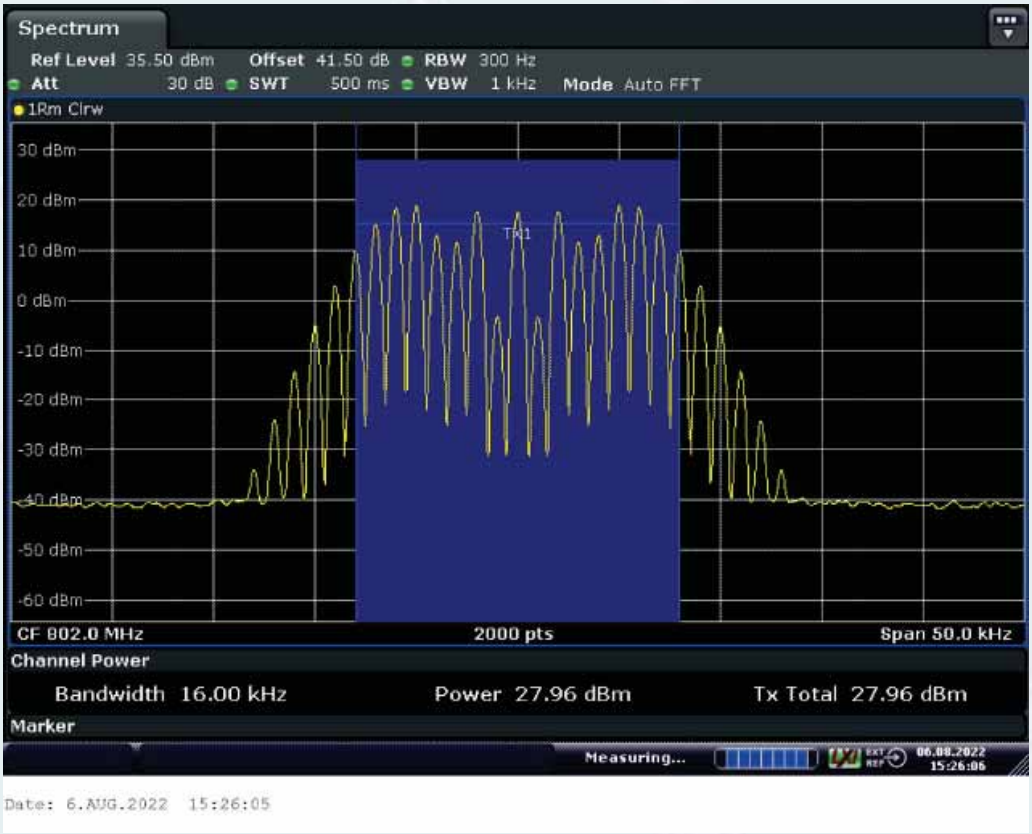
10.5.5.3.1.4.2. Uplink




Middle Frequency: 802.0MHz MHz, Input occupied BW



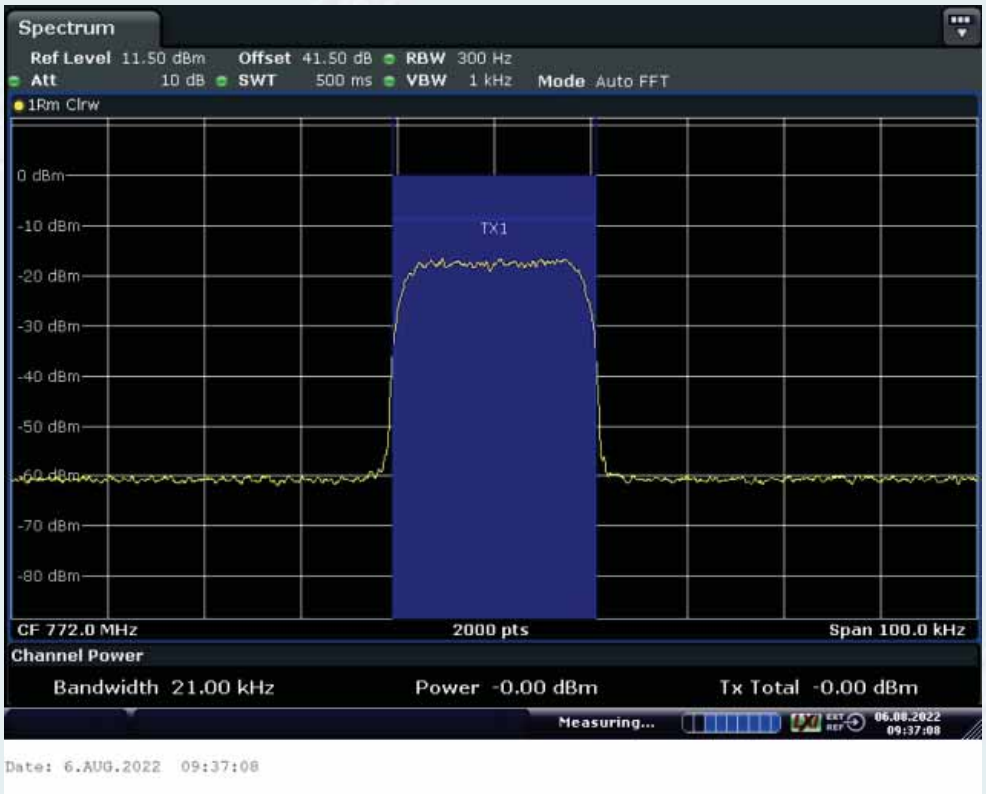

Middle Frequency: 802.0MHz, Output occupied BW(AGC)



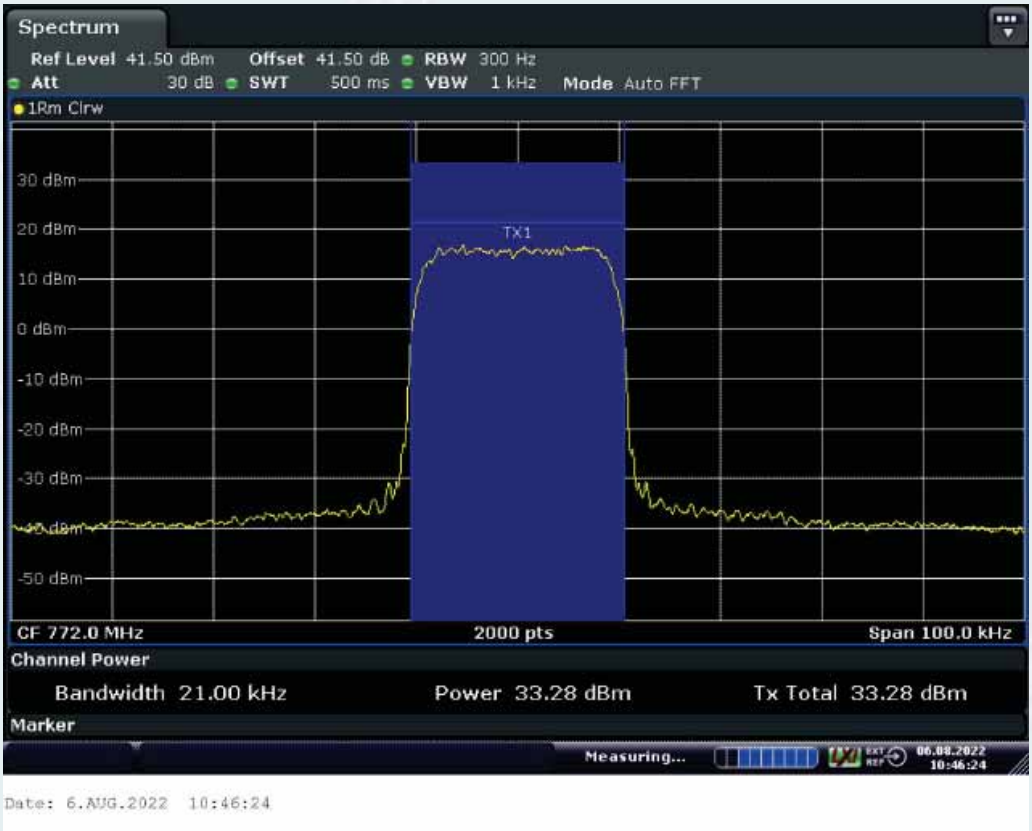

Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.5. Tetra

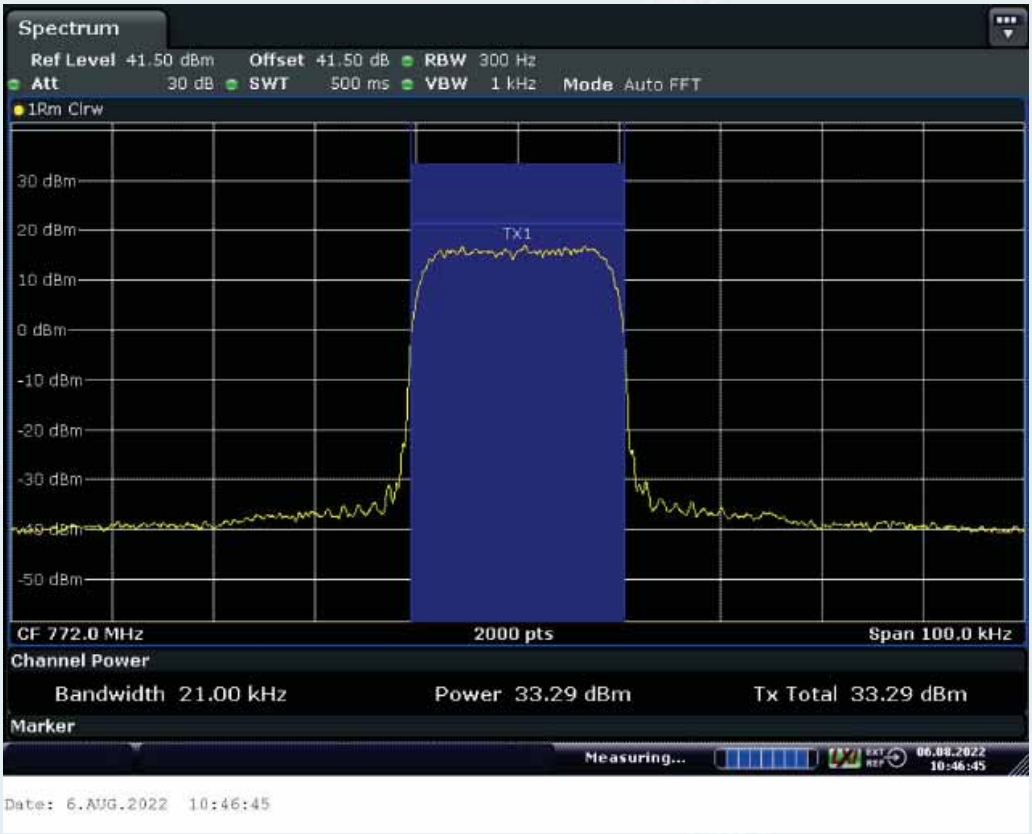
10.5.5.3.1.5.1. Downlink




Middle Frequency: 772.0MHz, Input occupied BW

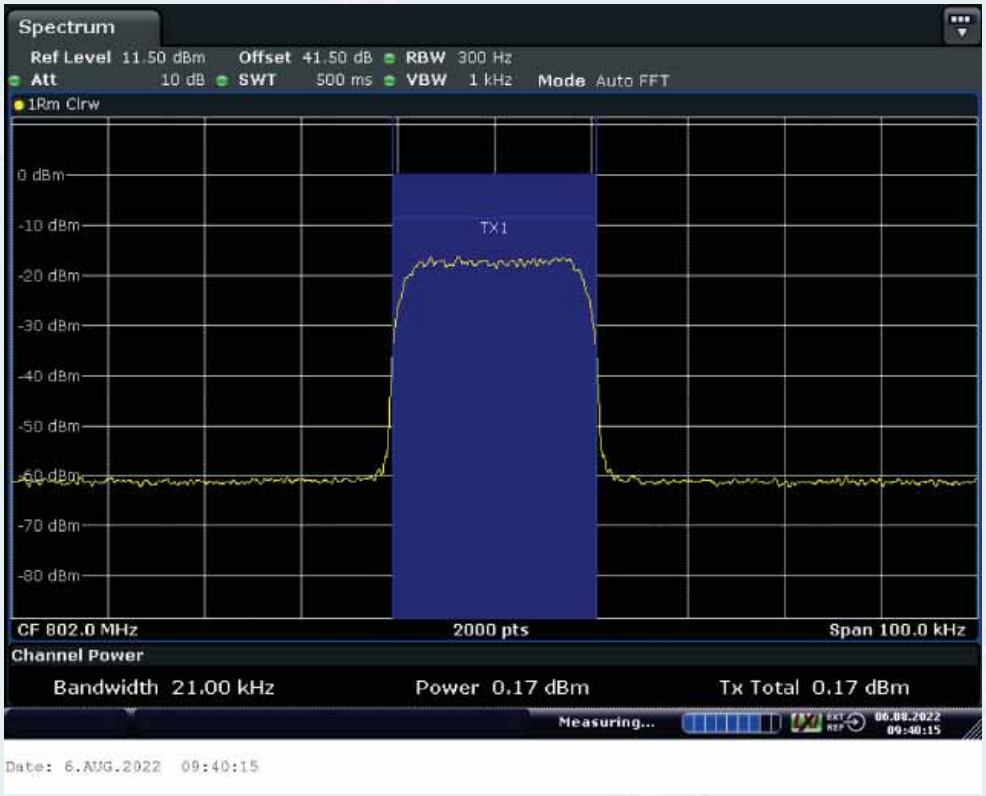



Middle Frequency: 772.0MHz, Output occupied BW(AGC)

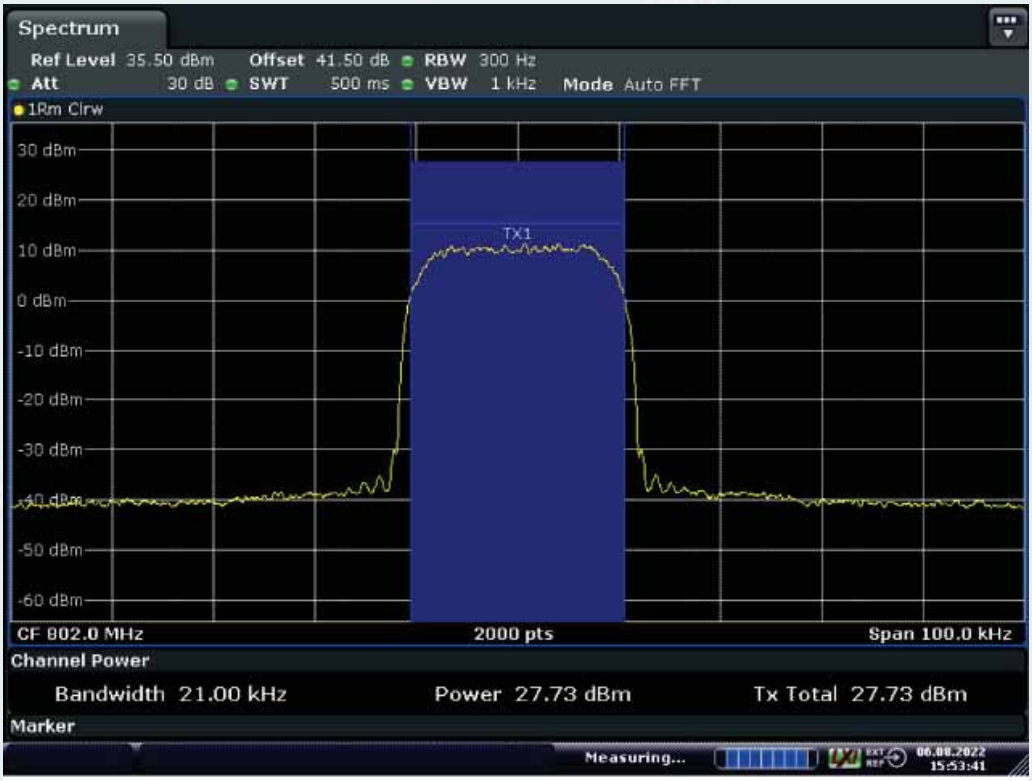



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

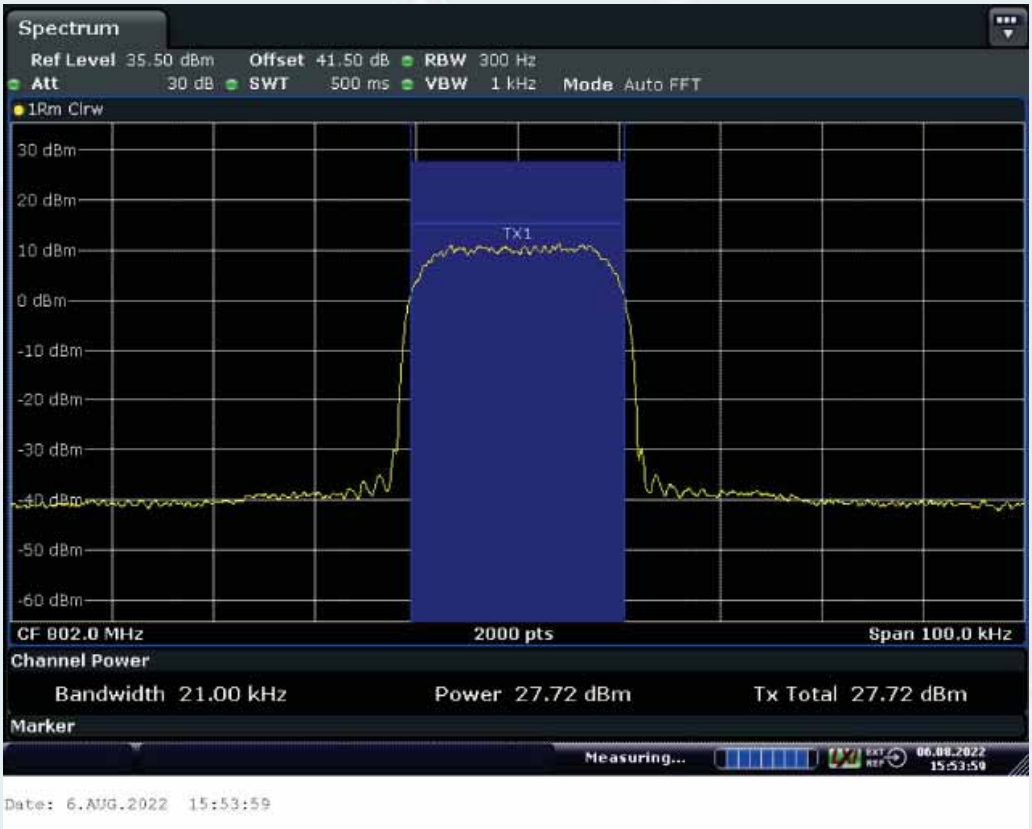
10.5.5.3.1.5.2. Uplink




Middle Frequency: 802.0MHz MHz, Input occupied BW




Middle Frequency: 802.0MHz, Output occupied BW(AGC)

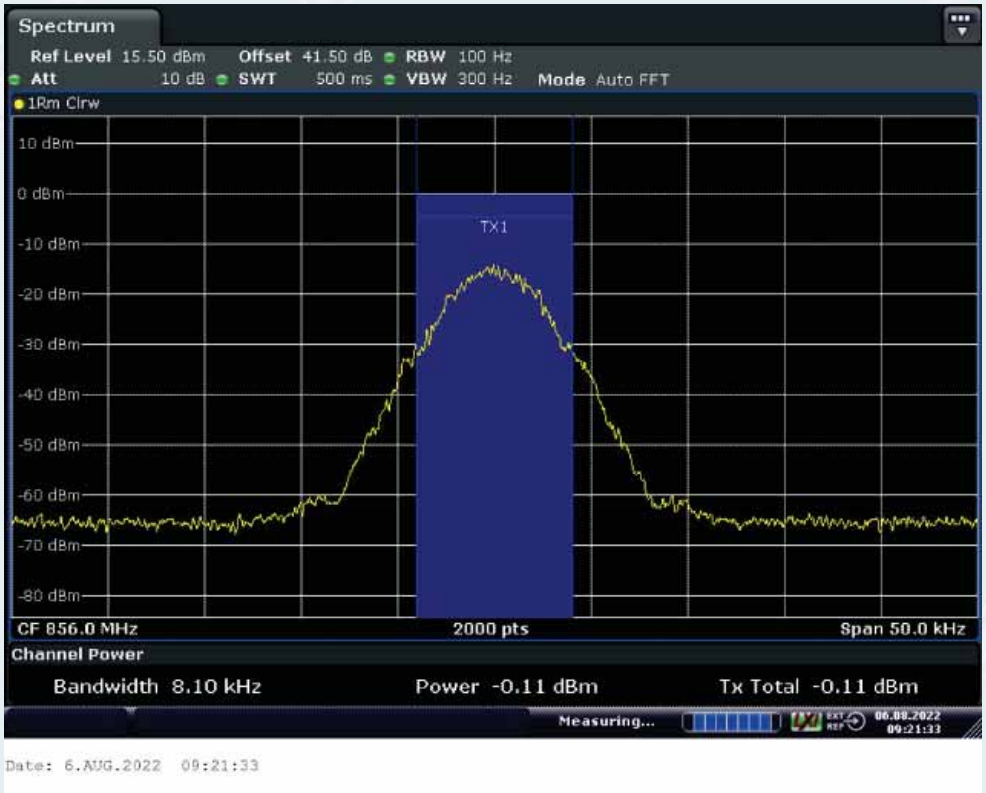



Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

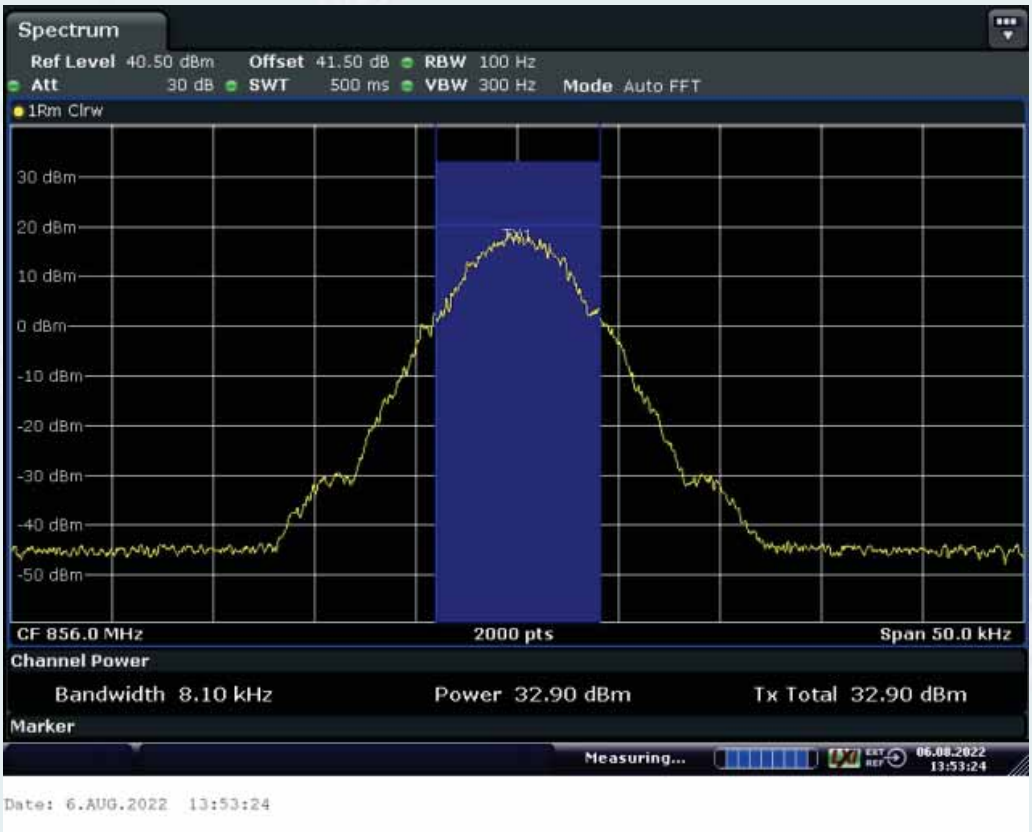
10.5.5.3.2. 800MHz Band

10.5.5.3.2.1. P25 Phase I(C4FM)

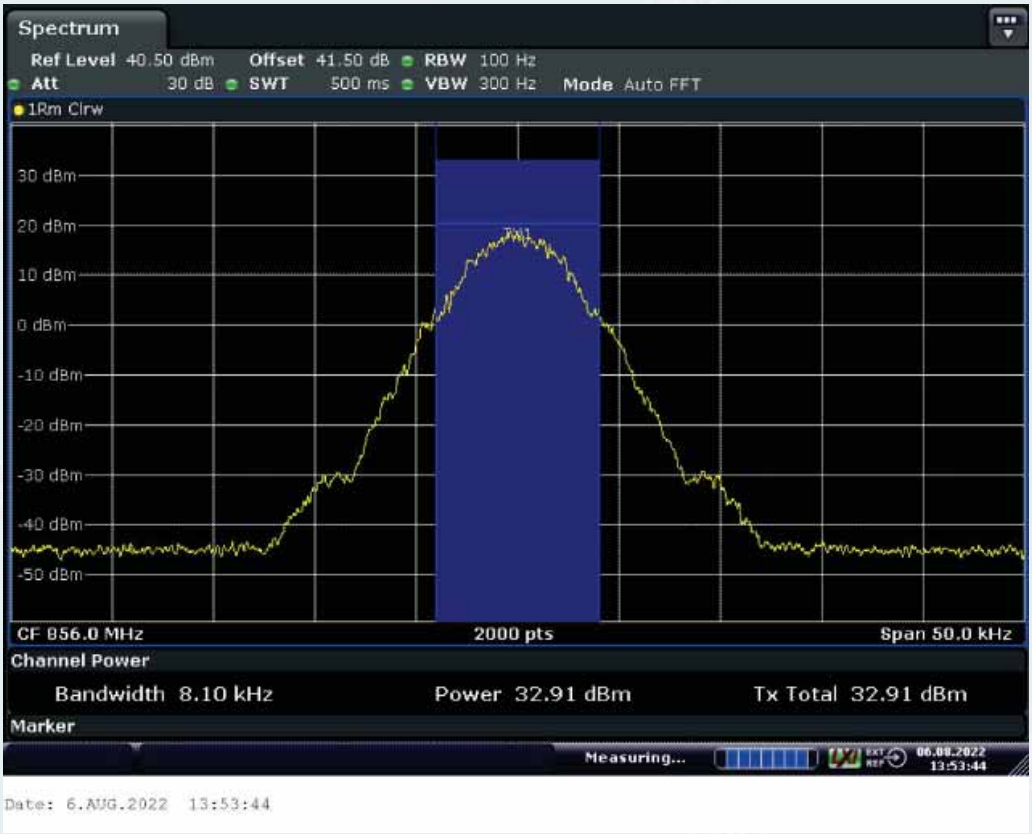
10.5.5.3.2.1.1. Downlink




Middle Frequency: 856.0MHz, Input occupied BW

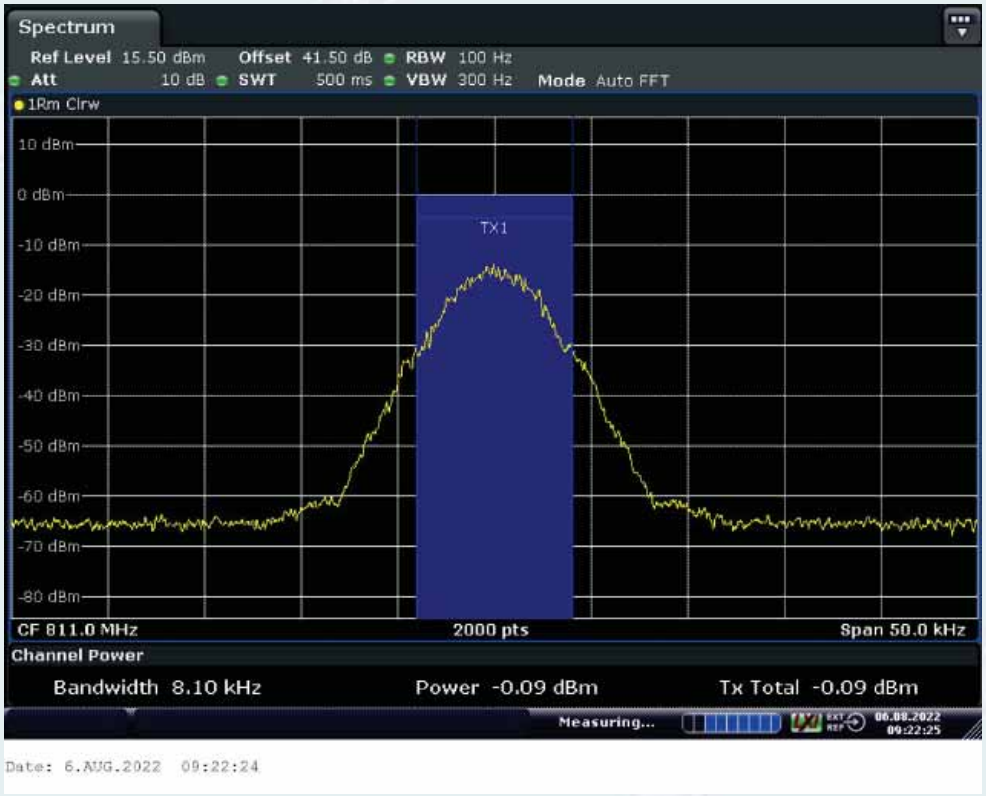



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

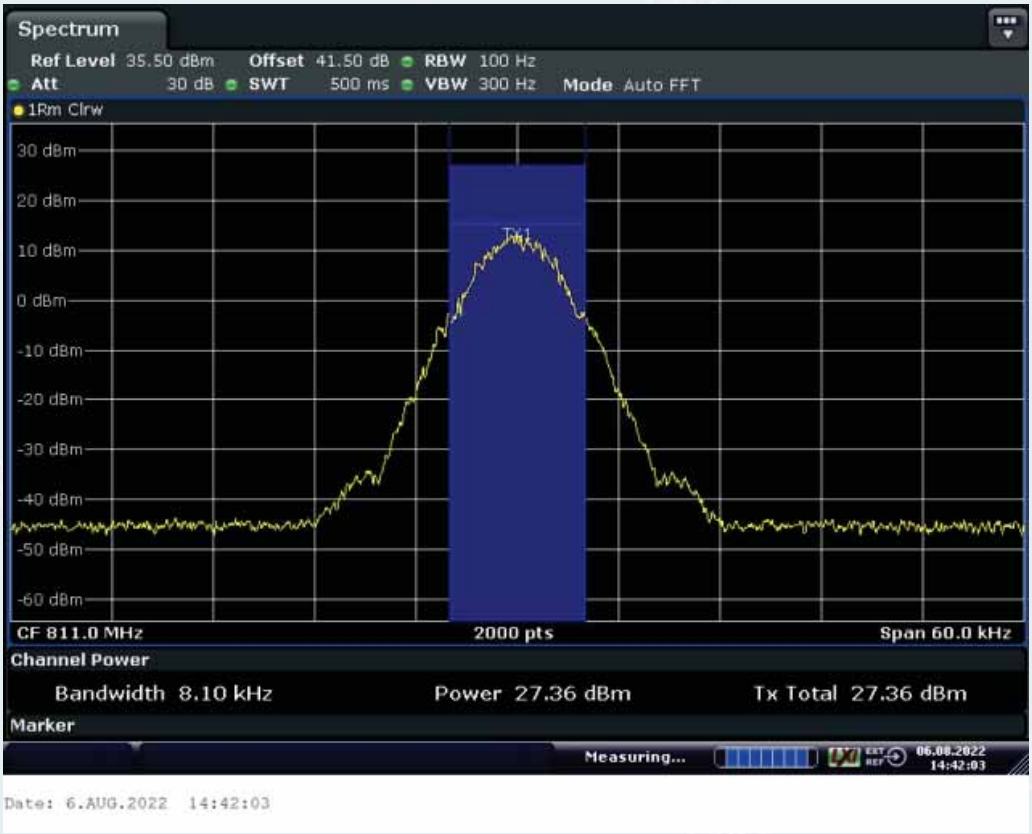



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

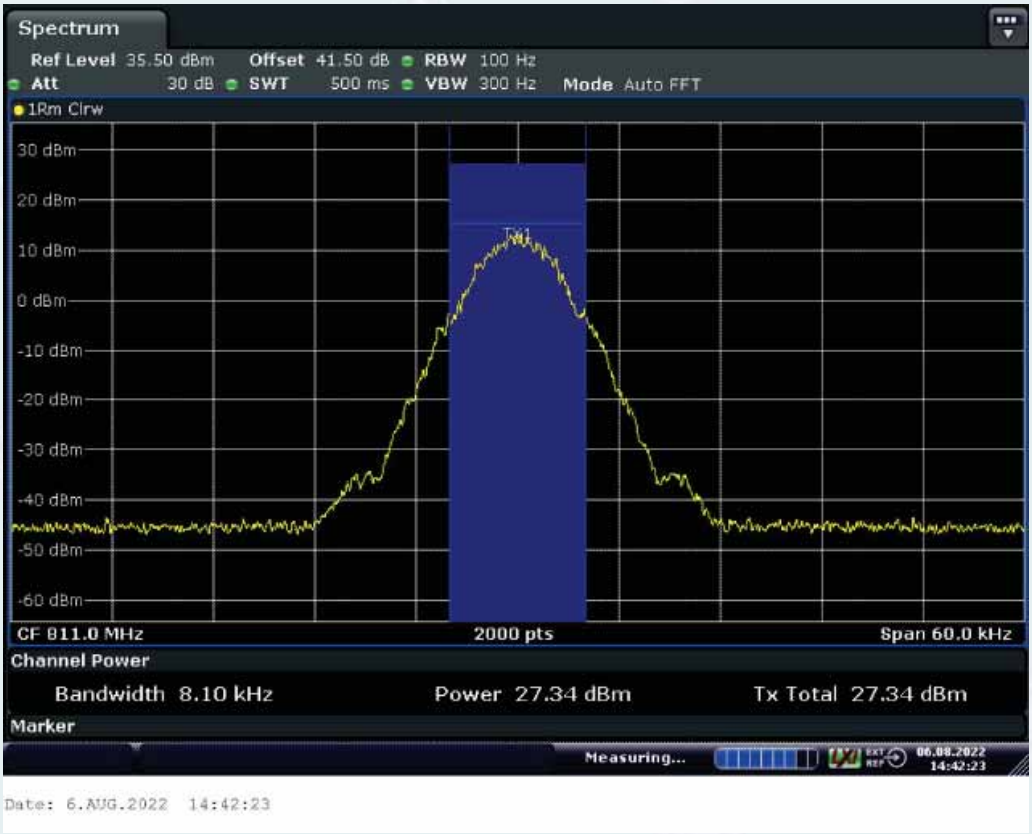
10.5.5.3.2.1.2. Uplink




Middle Frequency: 811.0MHz MHz, Input occupied BW



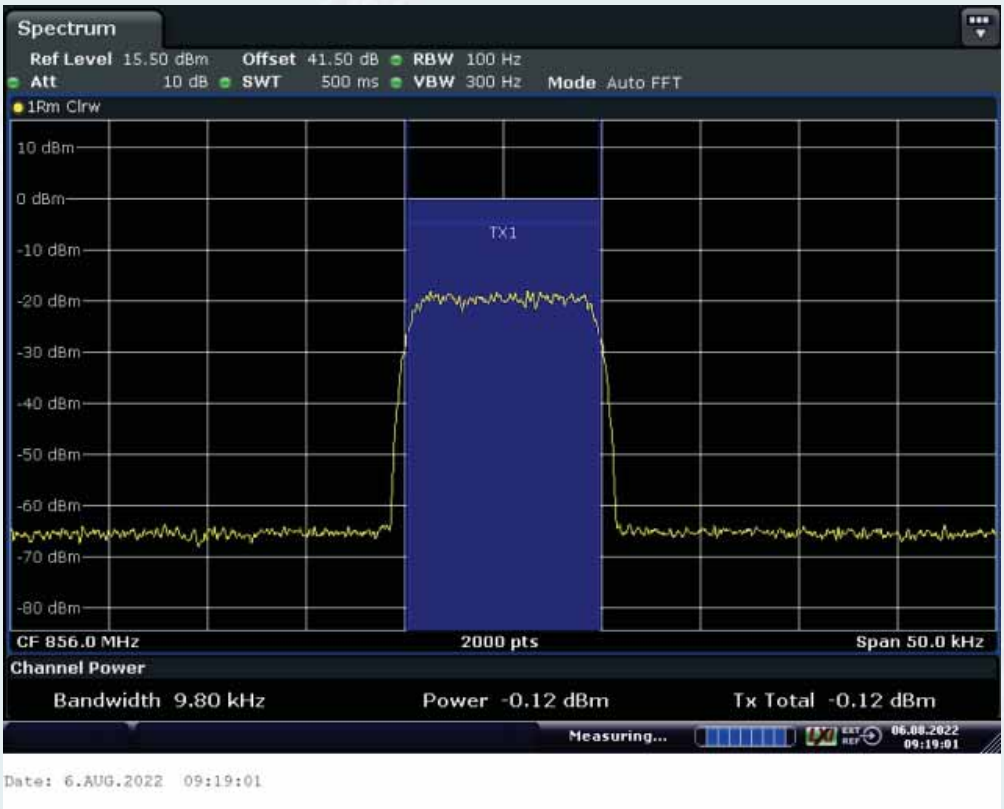

Middle Frequency: 811.0MHz, Output occupied BW(AGC)



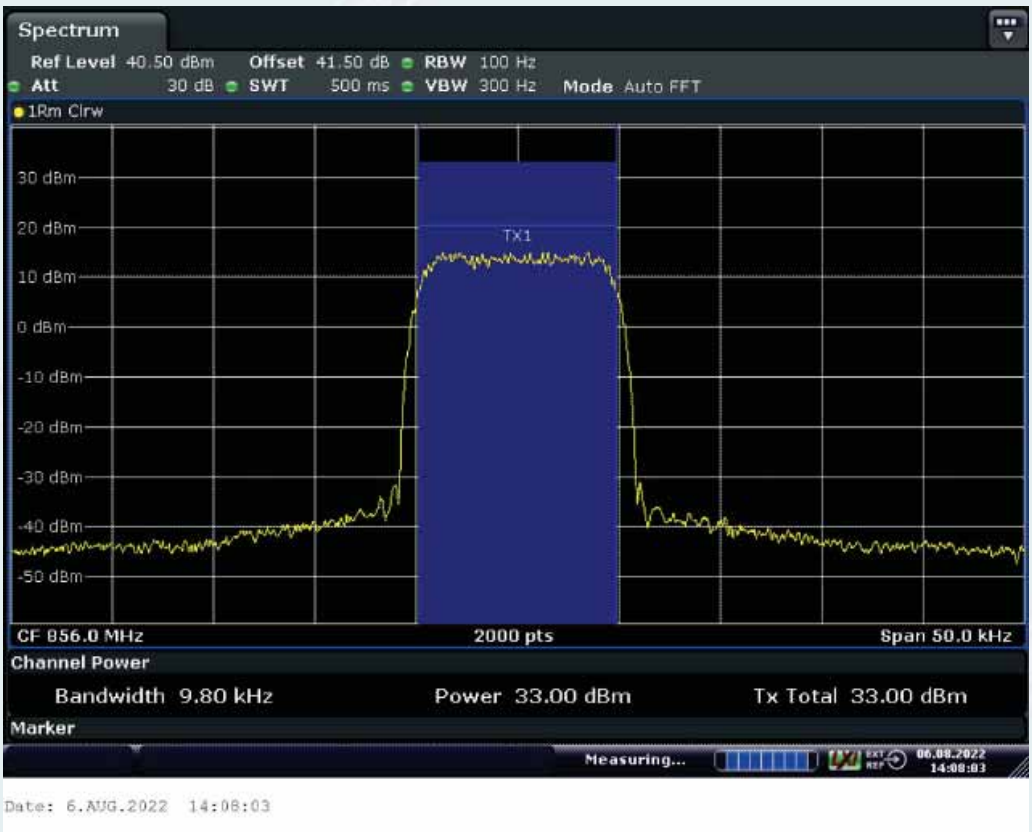

Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.2. P25 Phase II(H-DQPSK)

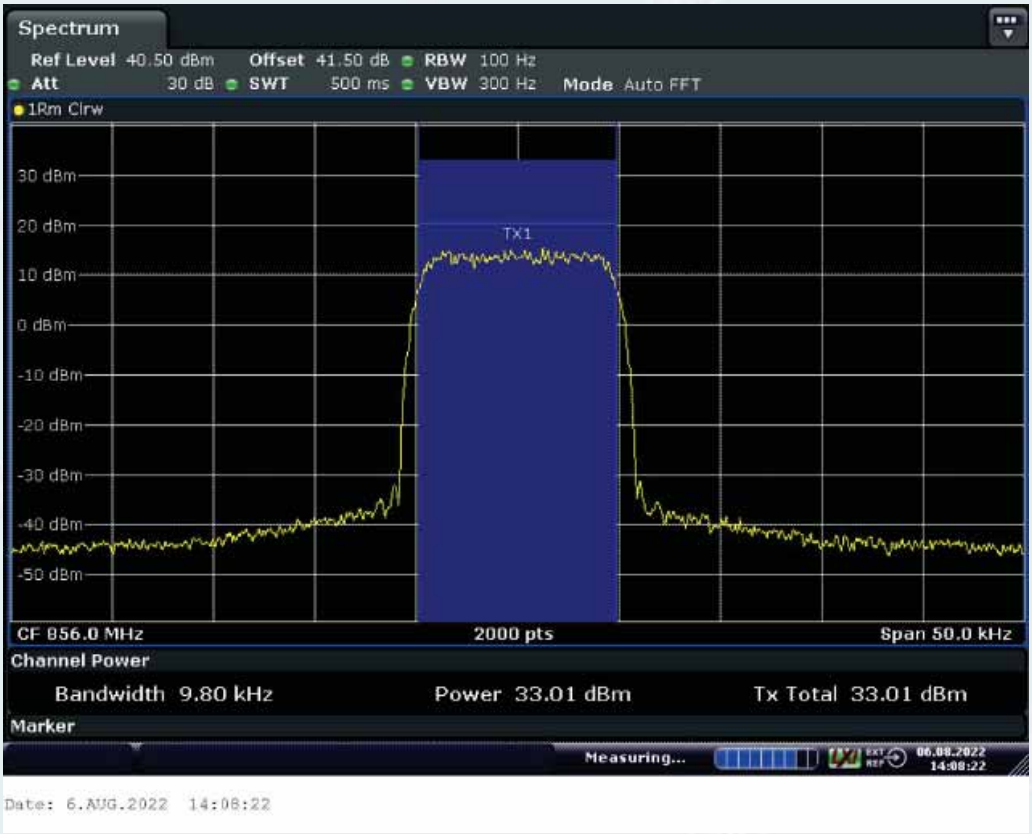
10.5.5.3.2.2.1. Downlink




Middle Frequency: 856.0MHz, Input occupied BW

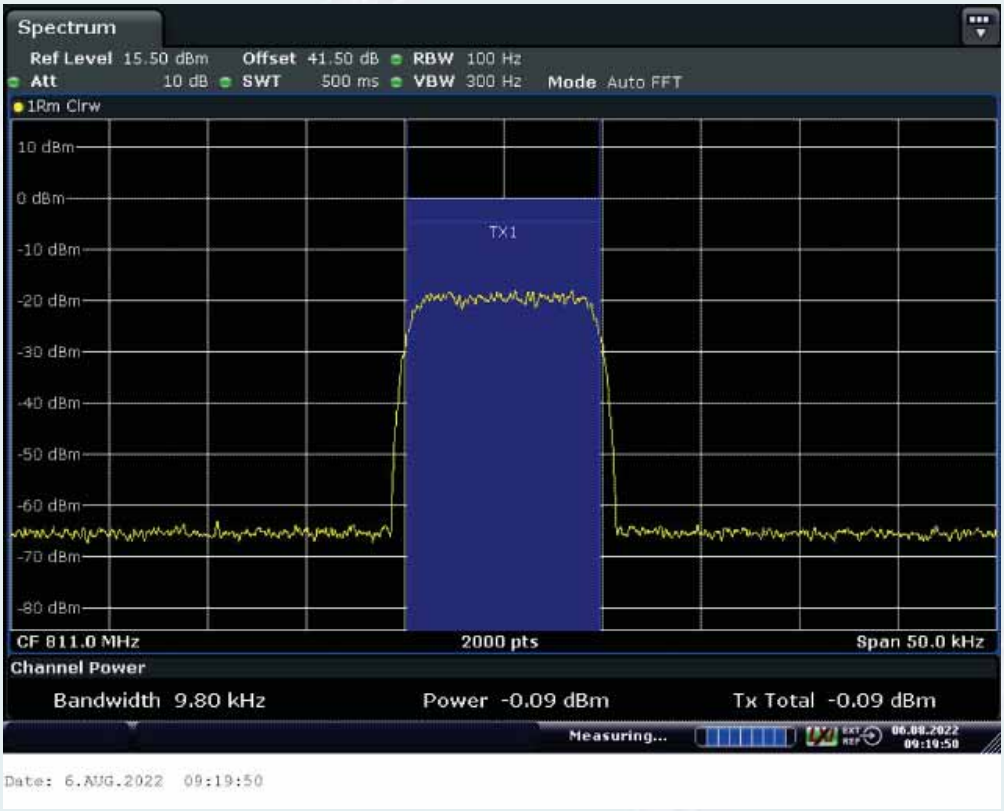



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

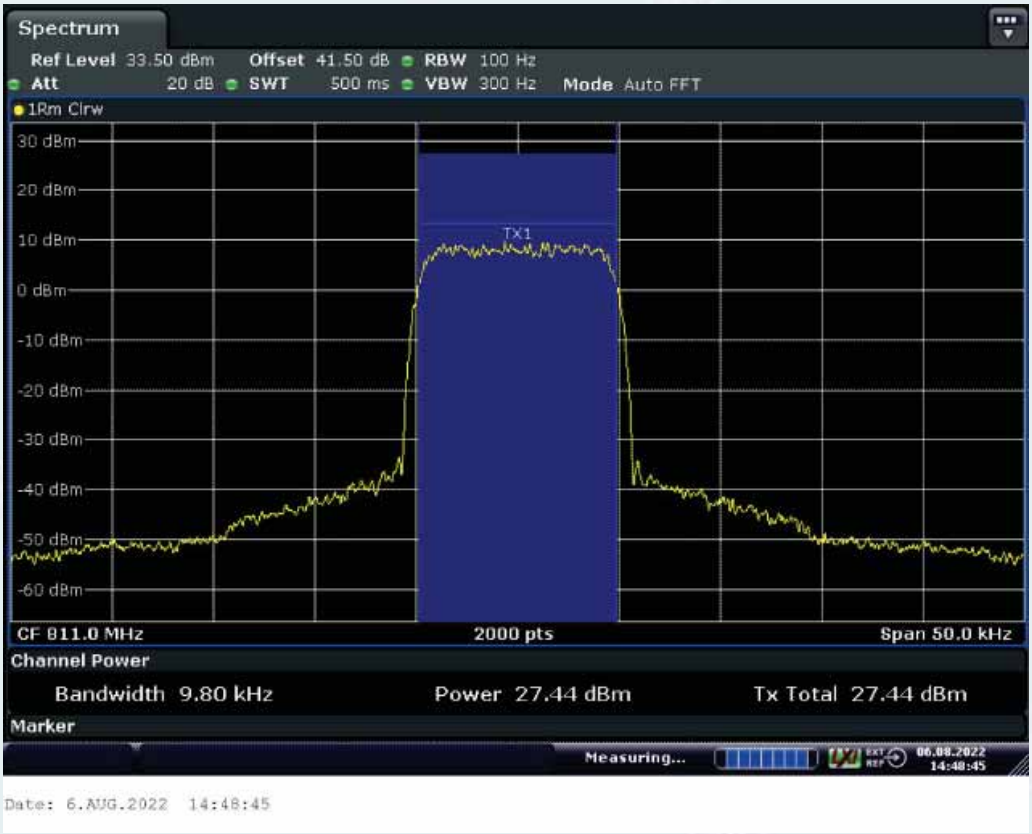



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

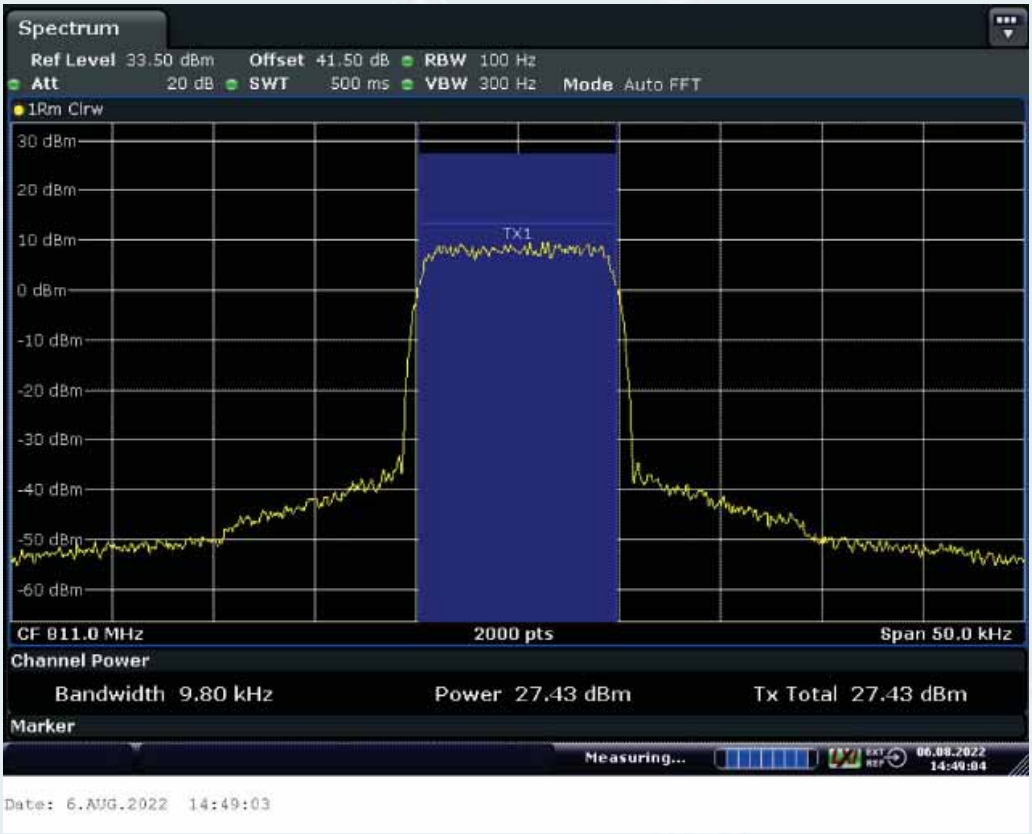
10.5.5.3.2.2.2. Uplink




Middle Frequency: 811.0MHz MHz, Input occupied BW



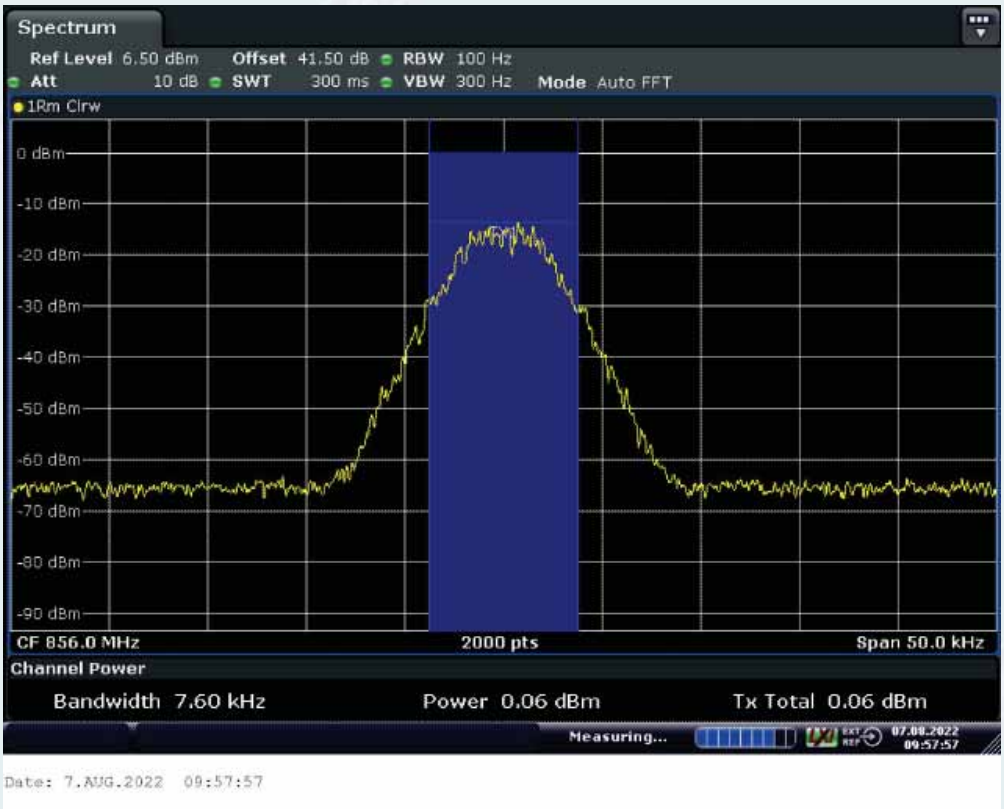

Middle Frequency: 811.0MHz, Output occupied BW(AGC)



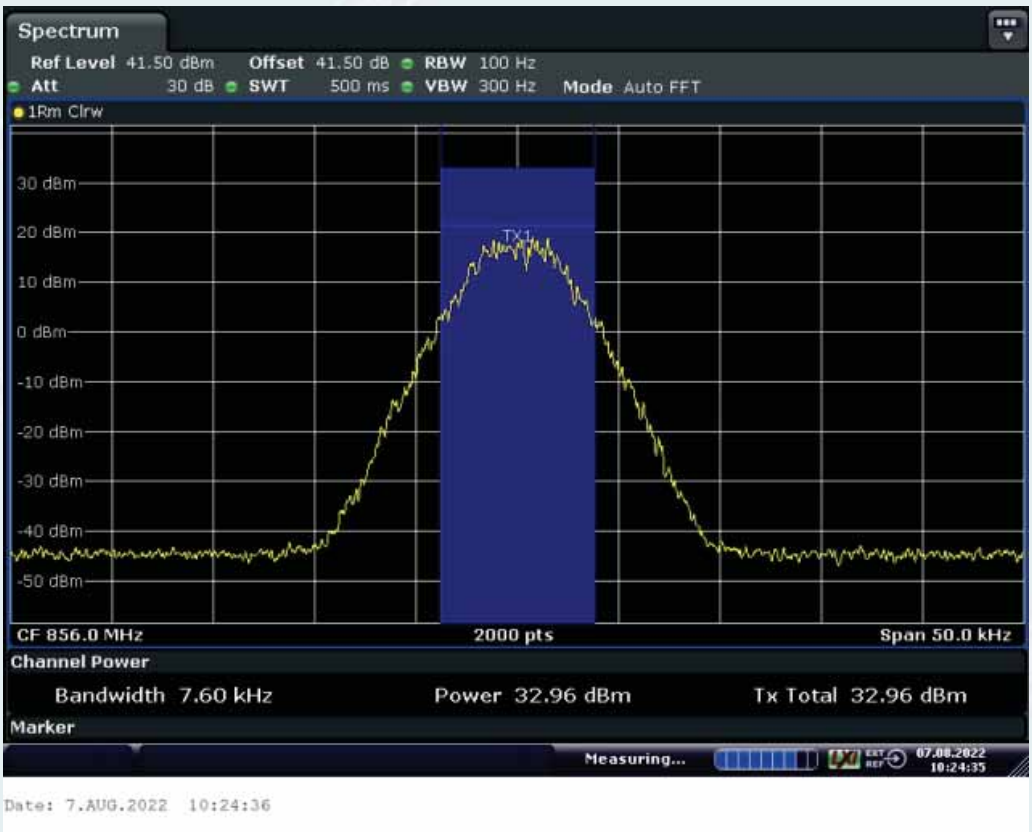

Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.3. DMR

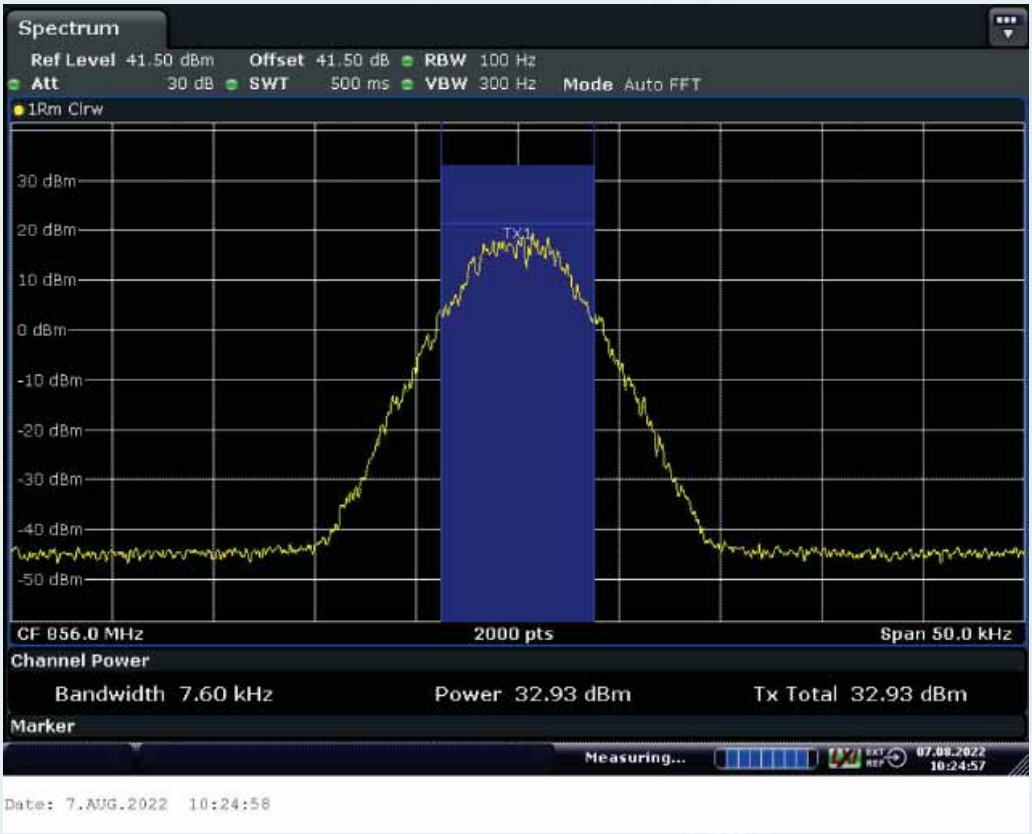
10.5.5.3.2.3.1. Downlink




Middle Frequency: 856.0MHz, Input occupied BW

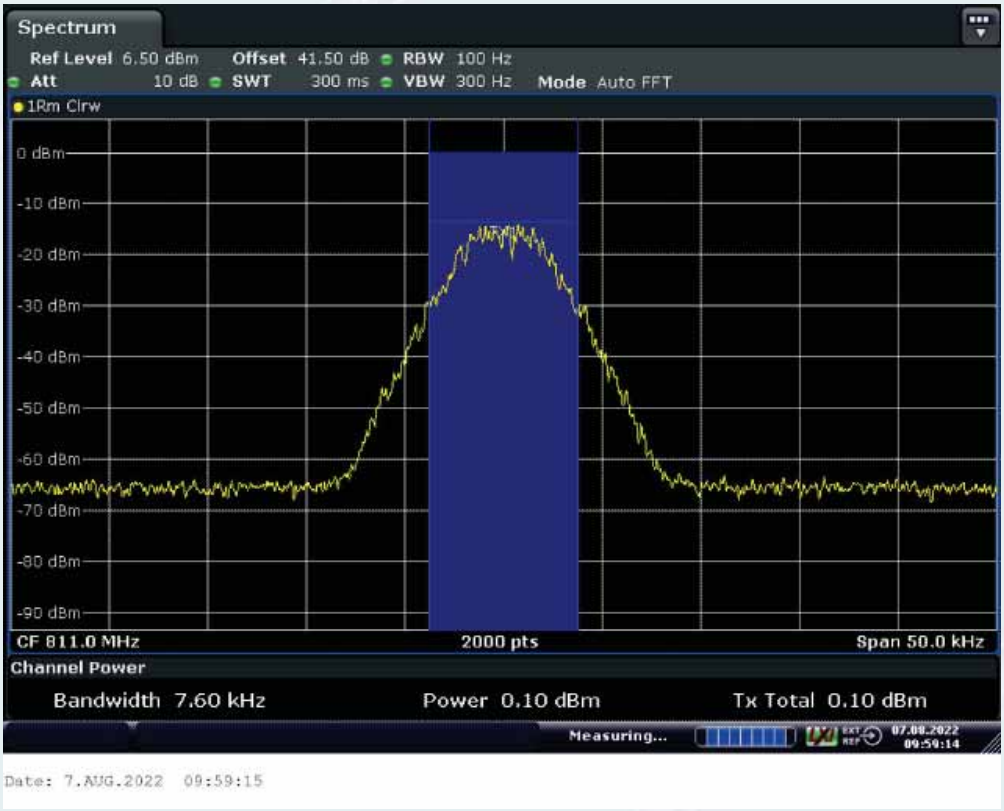



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

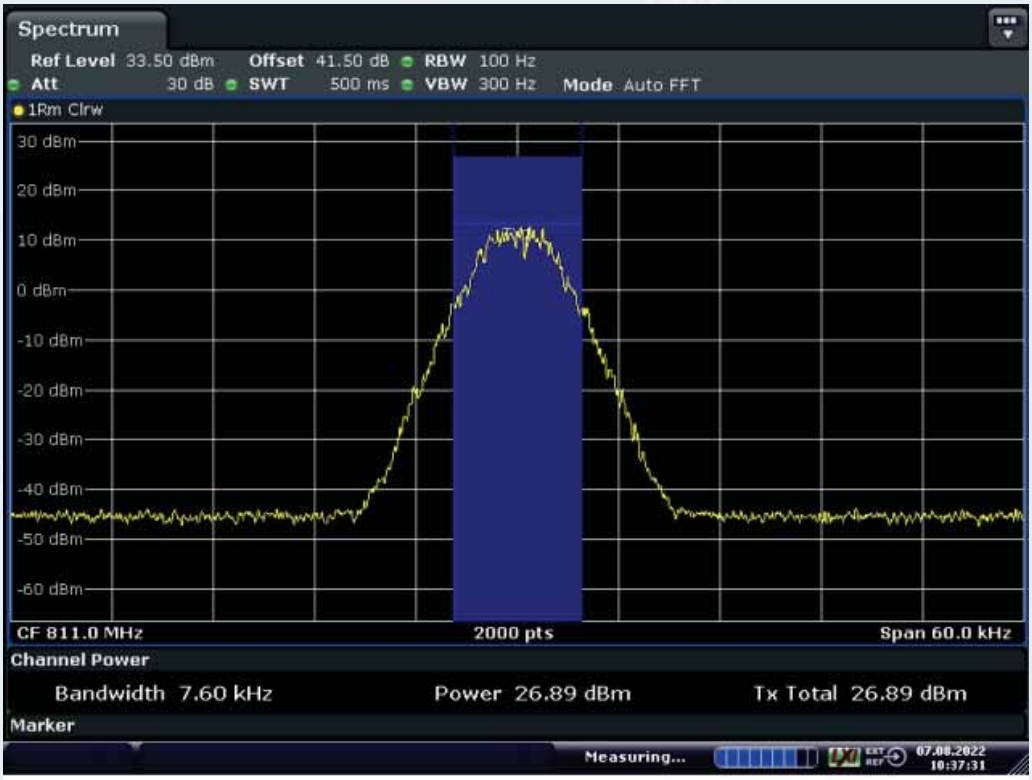



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

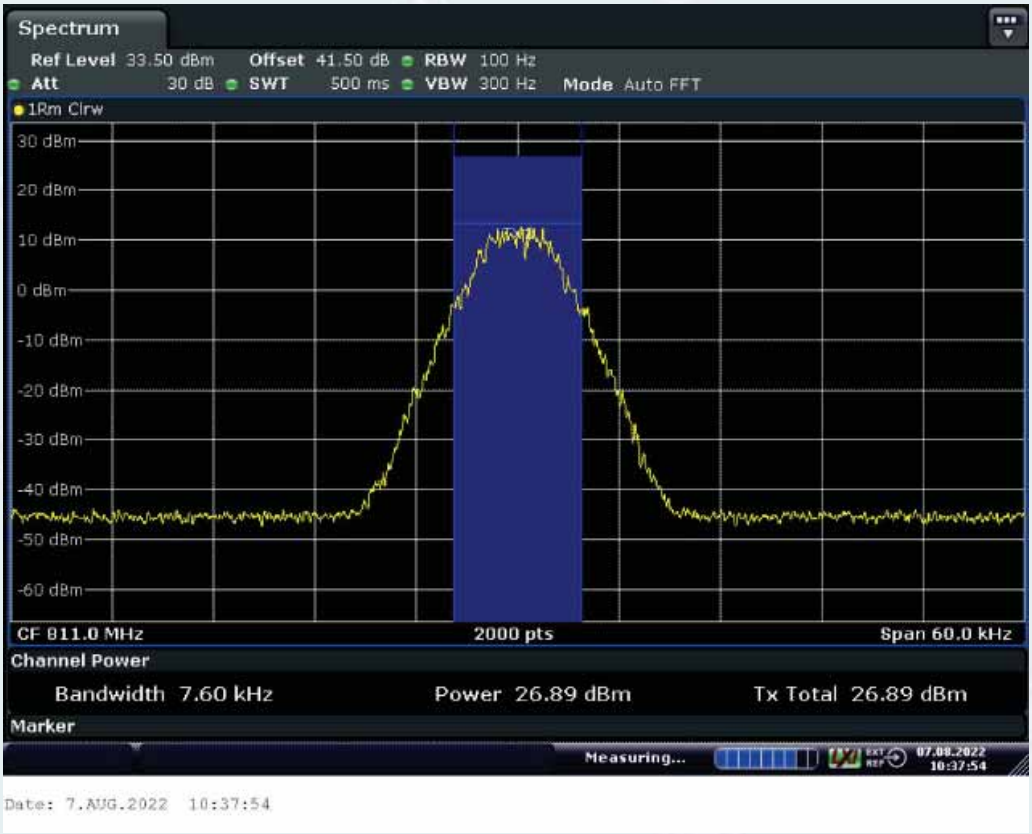
10.5.5.3.2.3.2. Uplink




Middle Frequency: 811.0MHz MHz, Input occupied BW



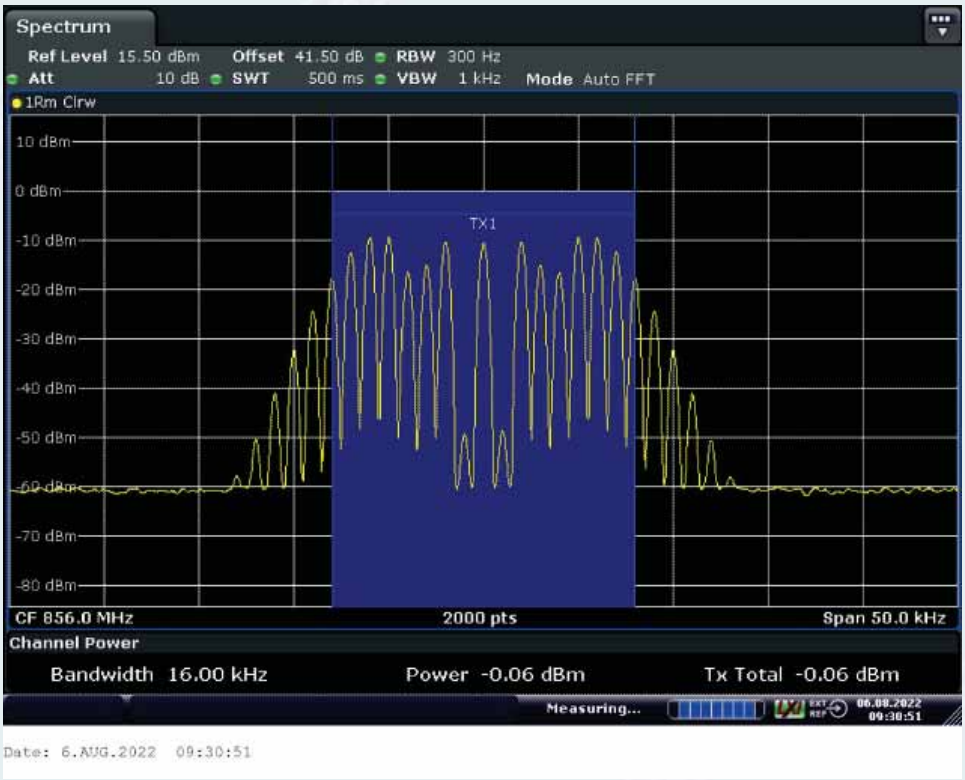

Middle Frequency: 811.0MHz, Output occupied BW(AGC)



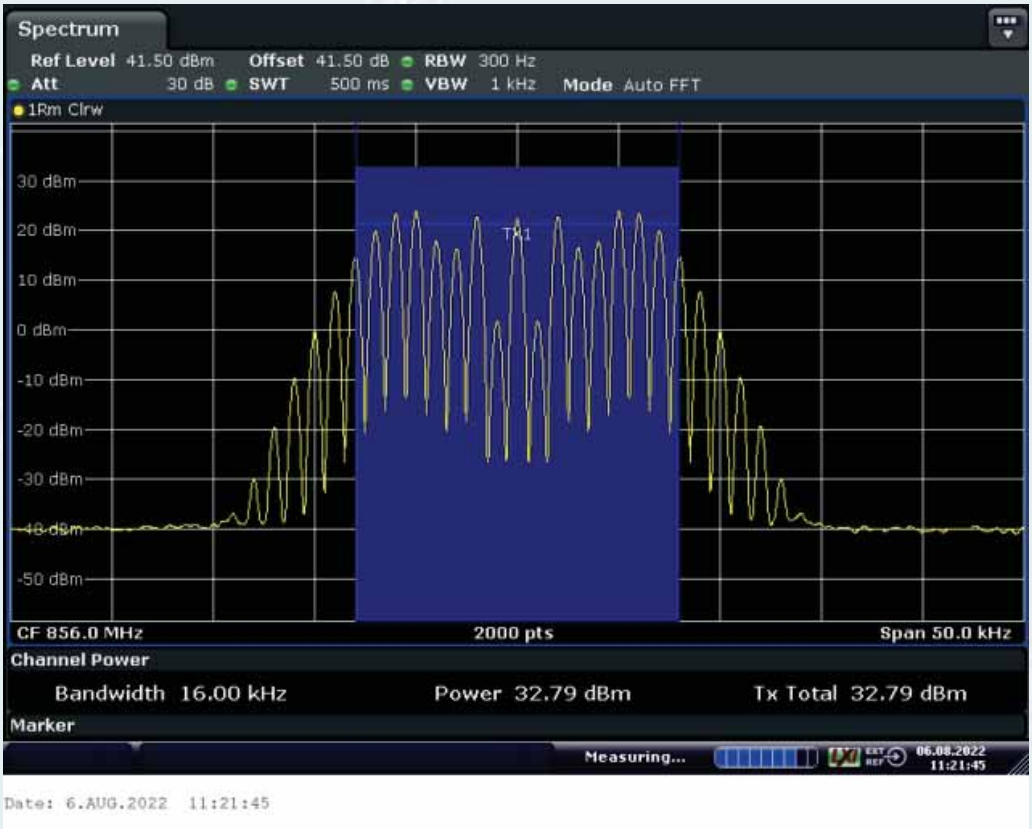

Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.4. Analog FM

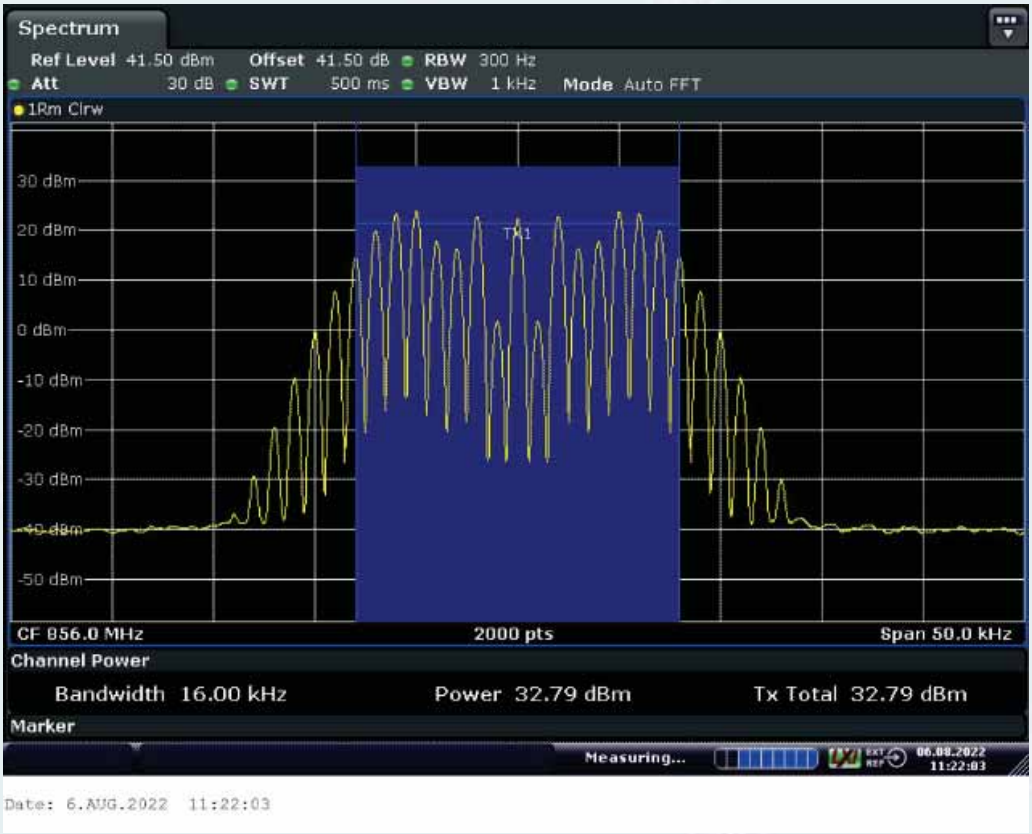
10.5.5.3.2.4.1. Downlink




Middle Frequency: 856.0MHz, Input occupied BW

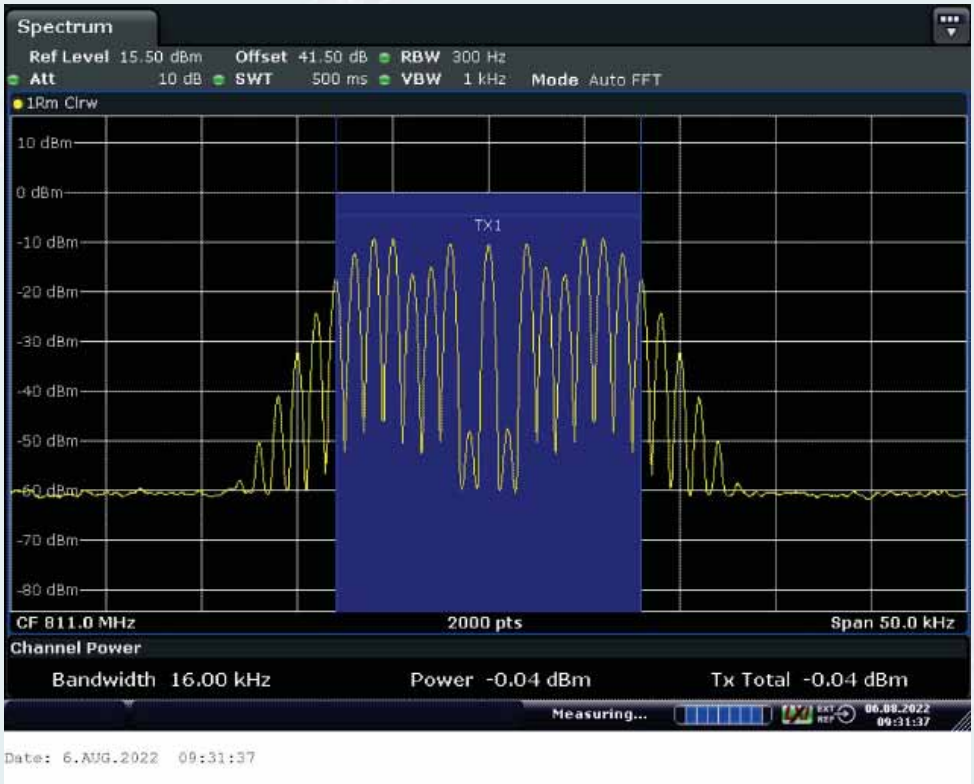



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

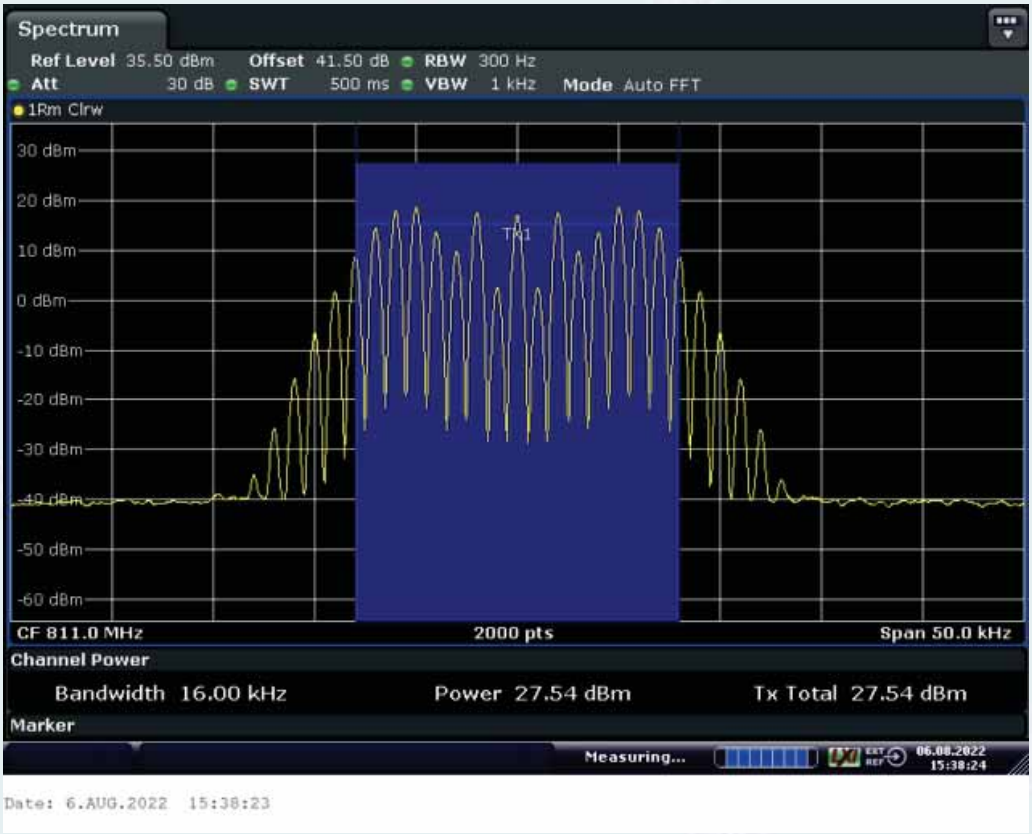



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

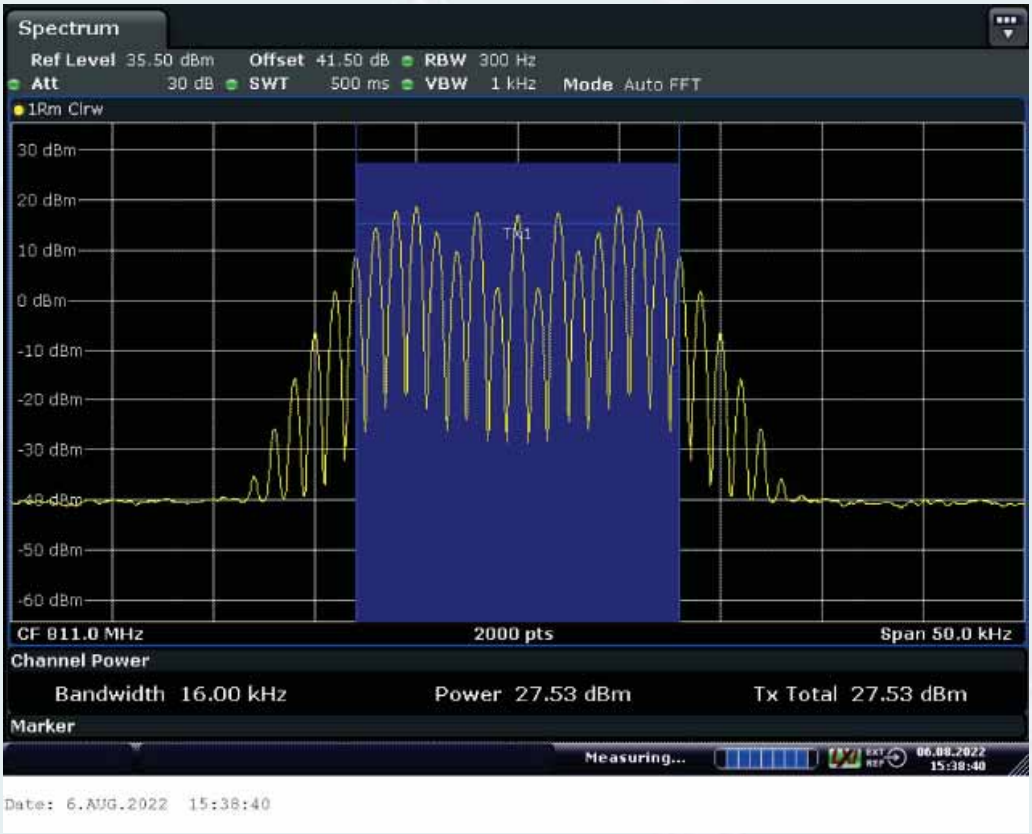
10.5.5.3.2.4.2. Uplink




Middle Frequency: 811.0MHz MHz, Input occupied BW



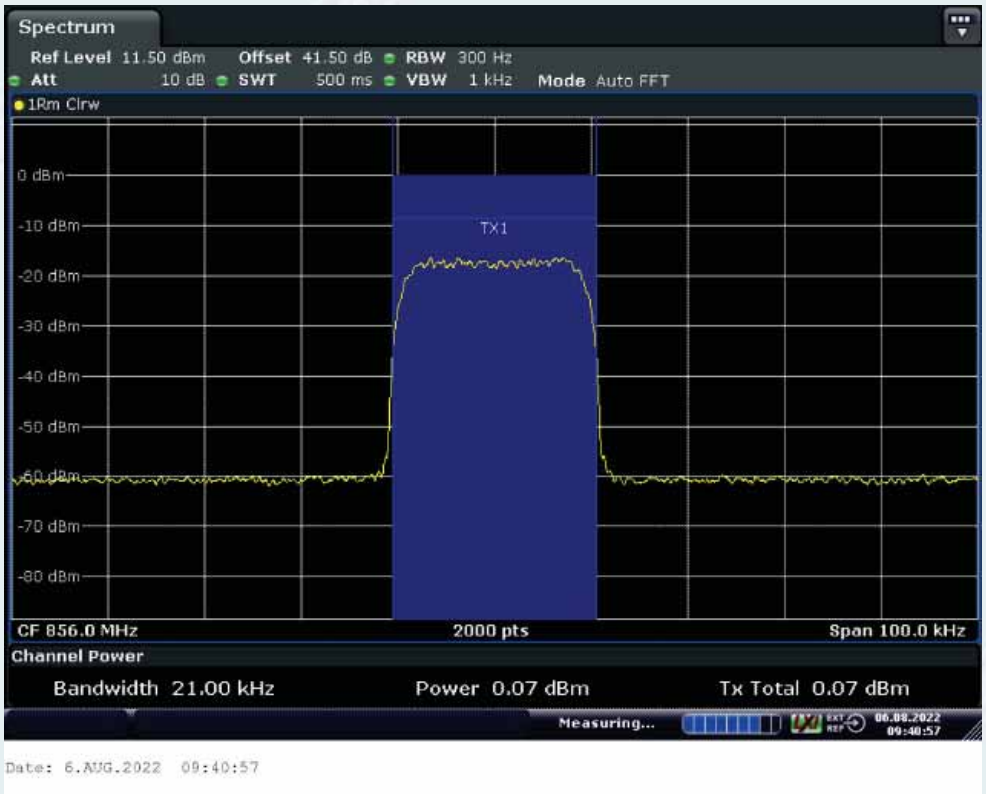

Middle Frequency: 811.0MHz, Output occupied BW(AGC)



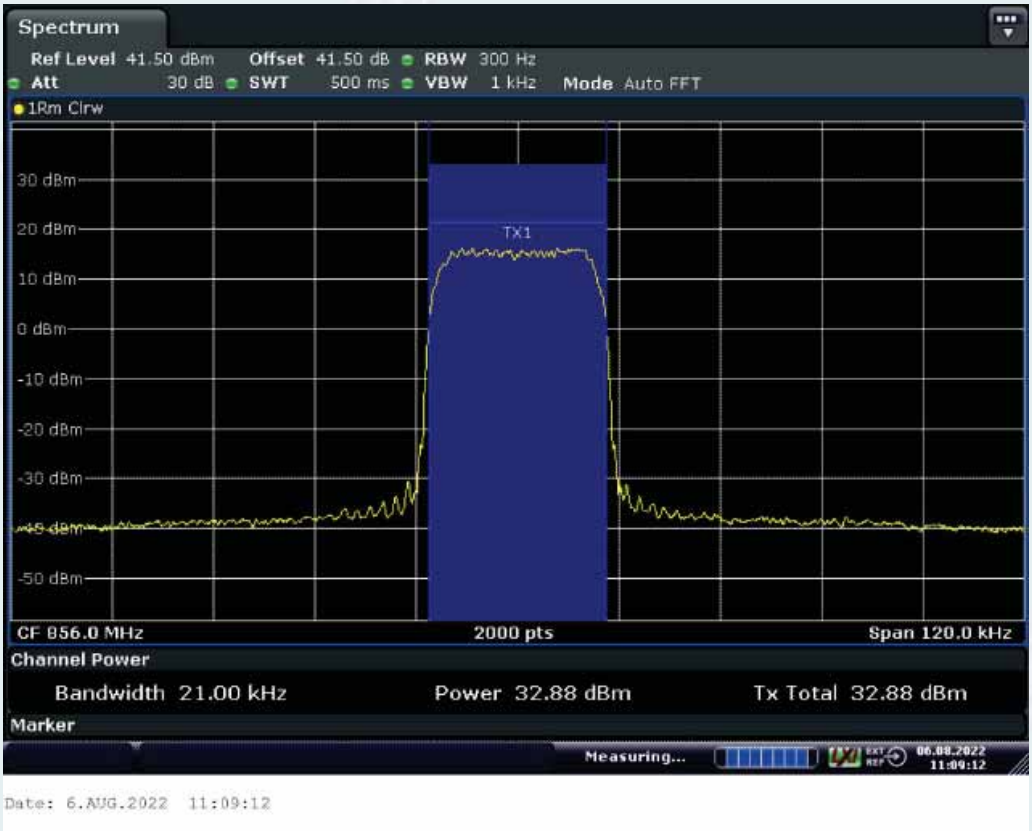

Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.5. Tetra

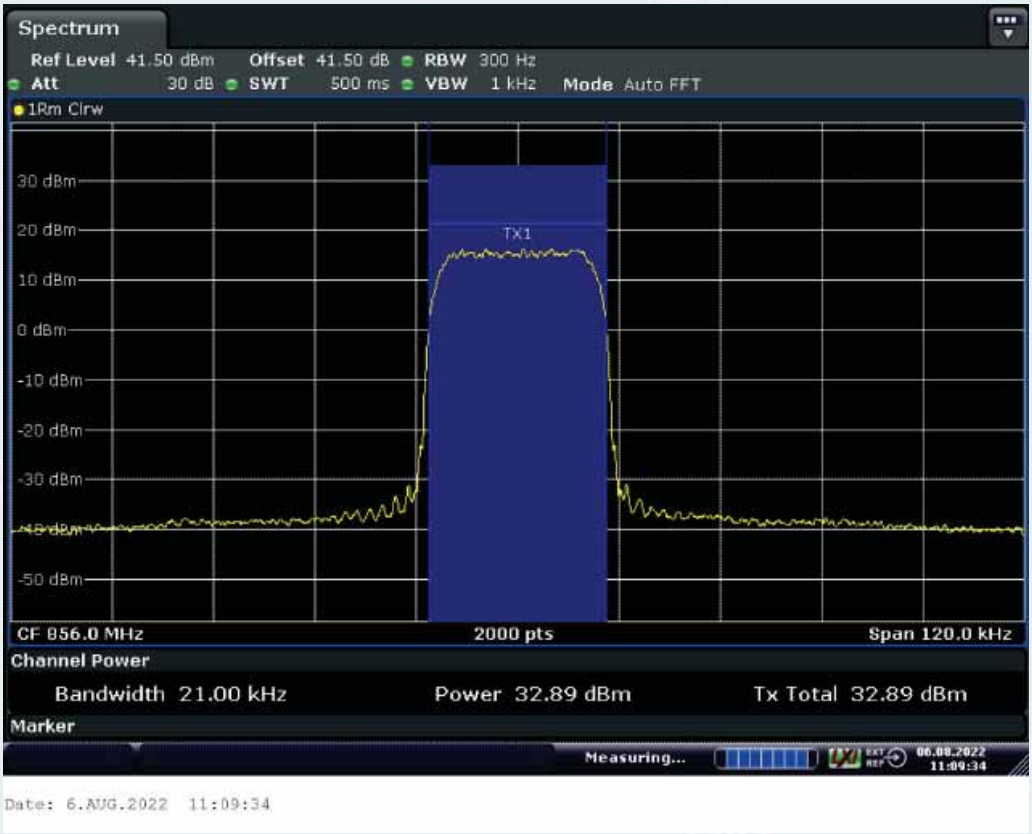
10.5.5.3.2.5.1. Downlink




Middle Frequency: 856.0MHz, Input occupied BW

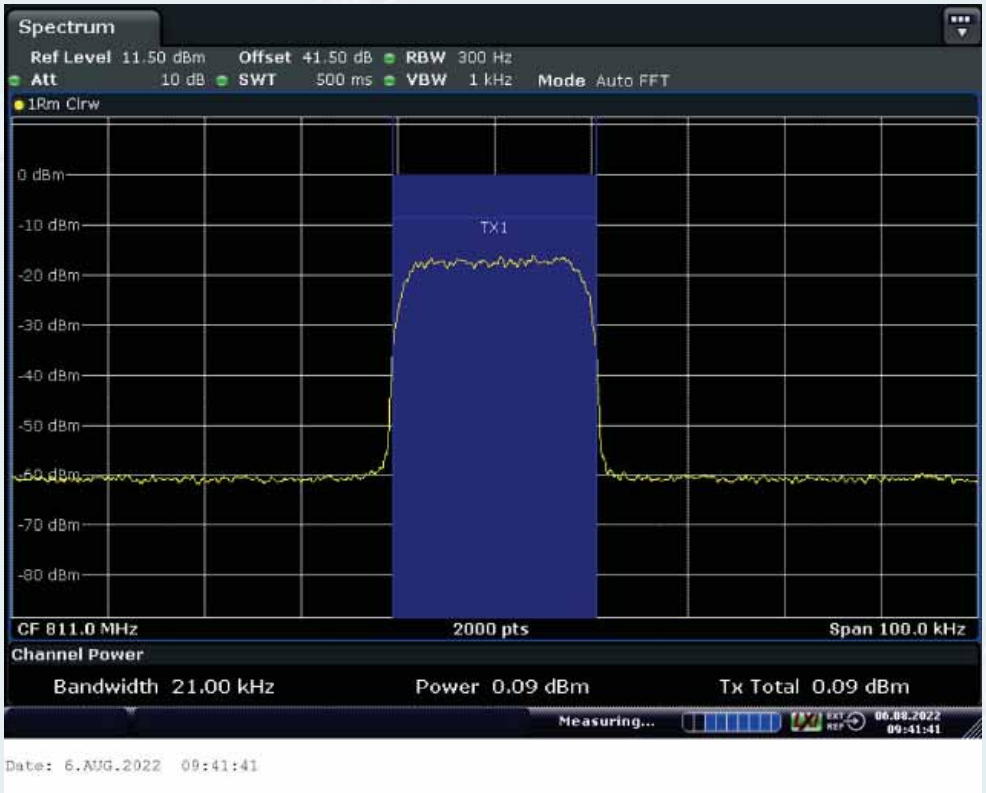



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

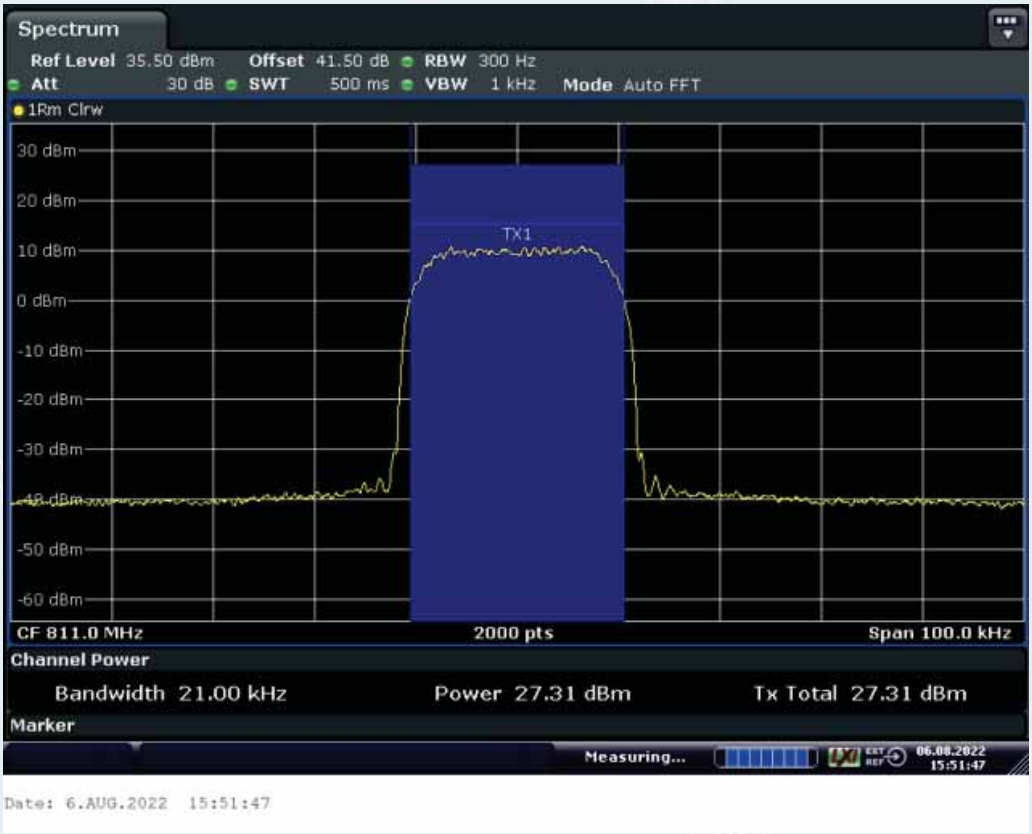



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

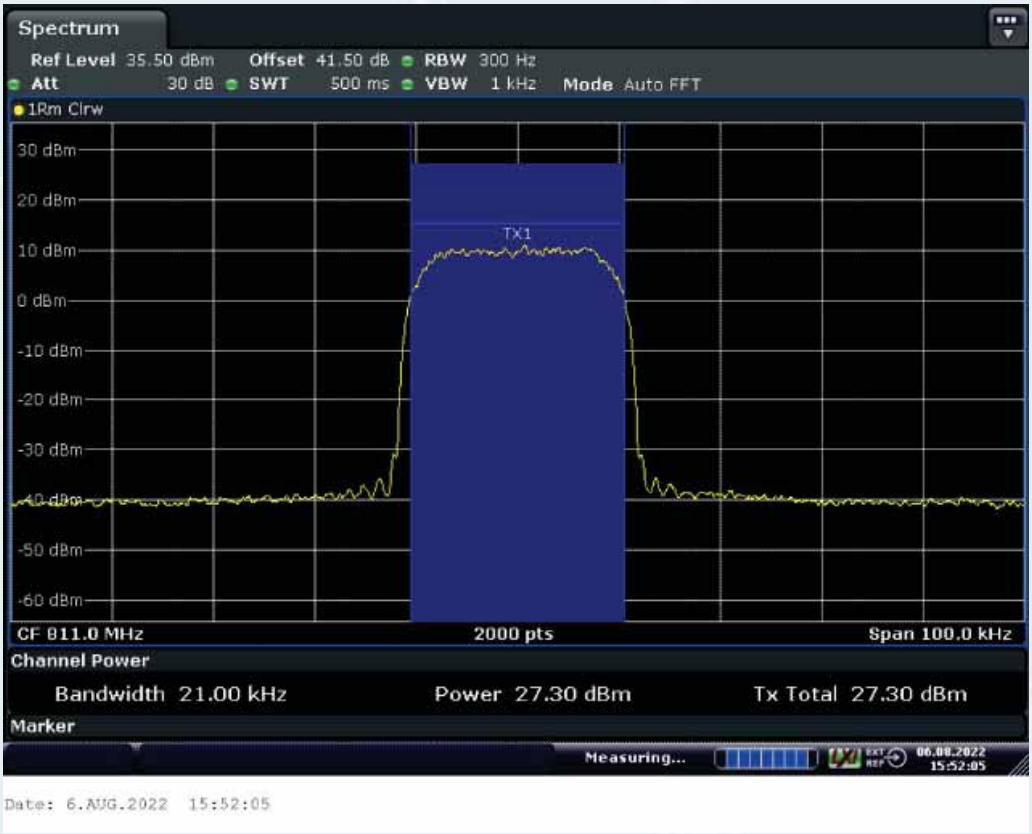
10.5.5.3.2.5.2. Uplink




Middle Frequency: 811.0MHz MHz, Input occupied BW




Middle Frequency: 811.0MHz, Output occupied BW(AGC)




Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

## 10.6. Mean power and amplifier/booster gain

| | |
|---|---|
| Test requirement: | KDB 935210 D05 clause 4.5<br>FCC PART 90.219 (e)(1) |
| Test Method: | KDB 935210 D05 clause 4.5 |

### 10.6.1. Requirements

According to KDB 935210 D05 clause 4.5, the mean input and output power and the amplifier gain was measured by adjusting the internal gain control of the EUT to the maximum gain for which equipment certification is sought. Any EUT attenuation settings were set to their minimum value.

Input power levels (Downlink and Uplink) were set to maximum input ratings while confirming that the device is not capable of operating in saturation (Non-linear mode) at the rated input levels, including during the performance of the input/output power measurements.

For FCC PART 90.219 (e)(1) requirement:

(e) *Device Specifications.* In addition to the general rules for equipment certification in §90.203(a)(2) and part 2, subpart J of this chapter, a signal booster must also meet the rules in this paragraph.

(1) The output power capability of a signal booster must be designed for deployments providing a radiated power not exceeding 5 Watts ERP for each retransmitted channel.

### 10.6.2. Test configuration

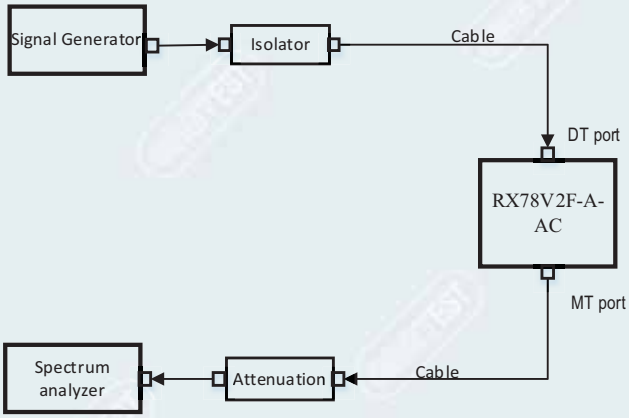



Figure 10.6-1 Downlink connection diagram

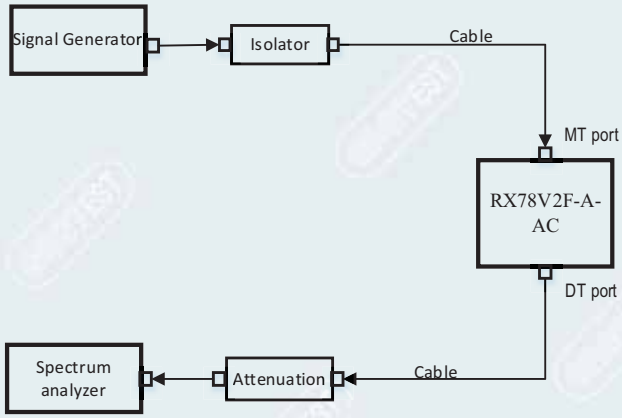



Figure 10.6-2 Uplink connection diagram