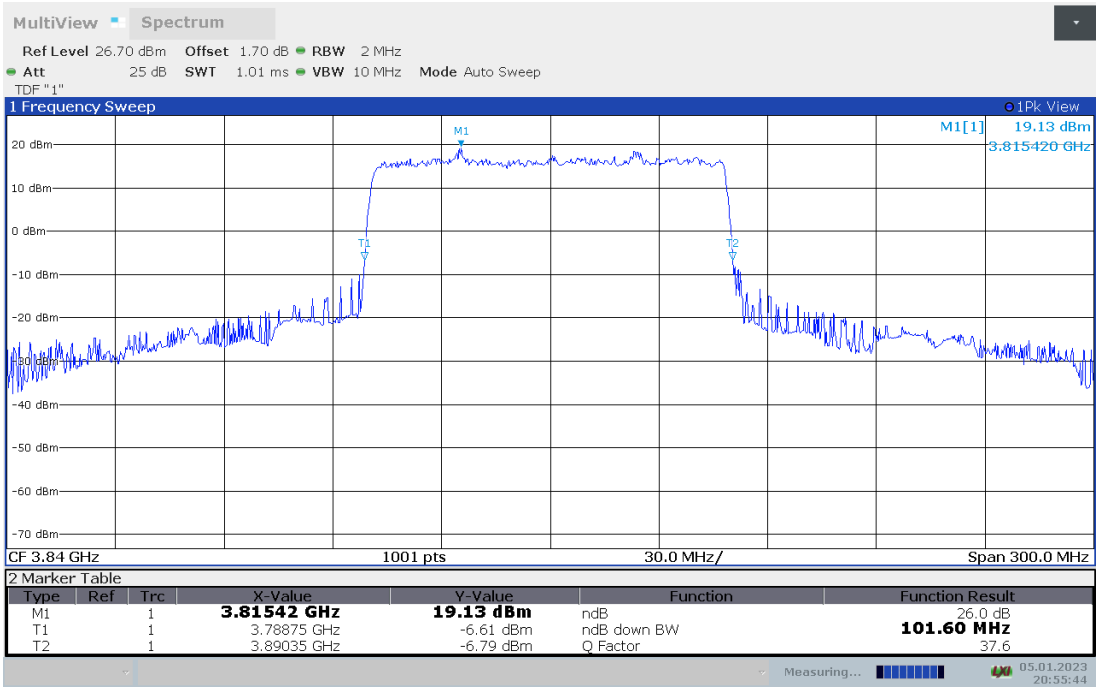
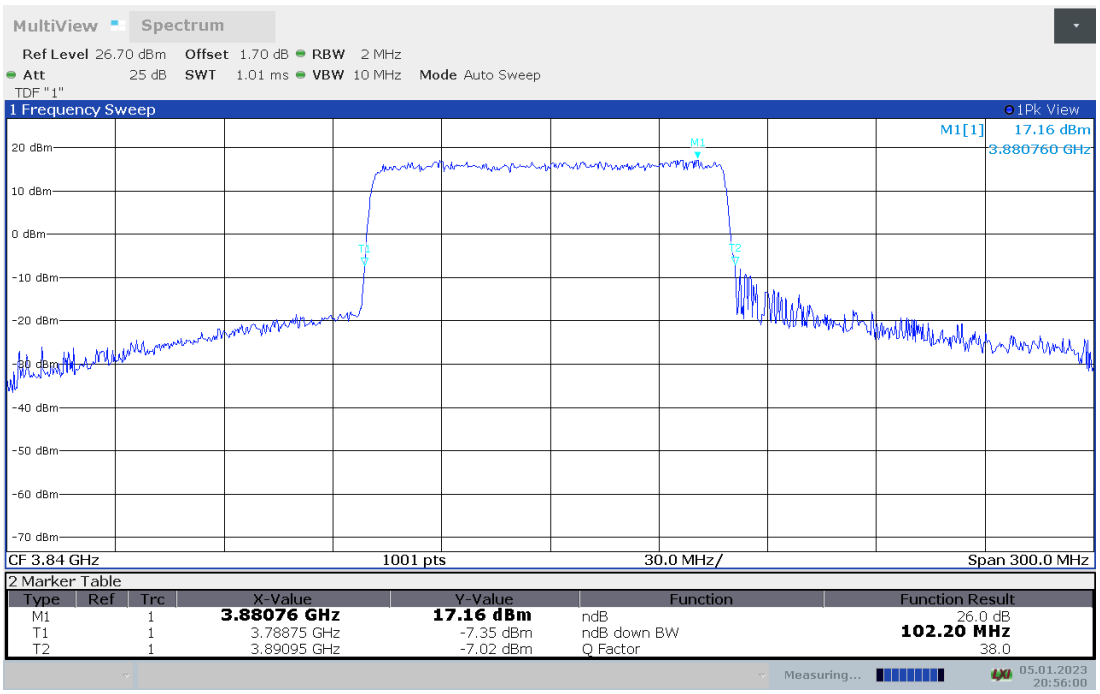
n77H,100MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	101.600	102.200

n77H,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n77H,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

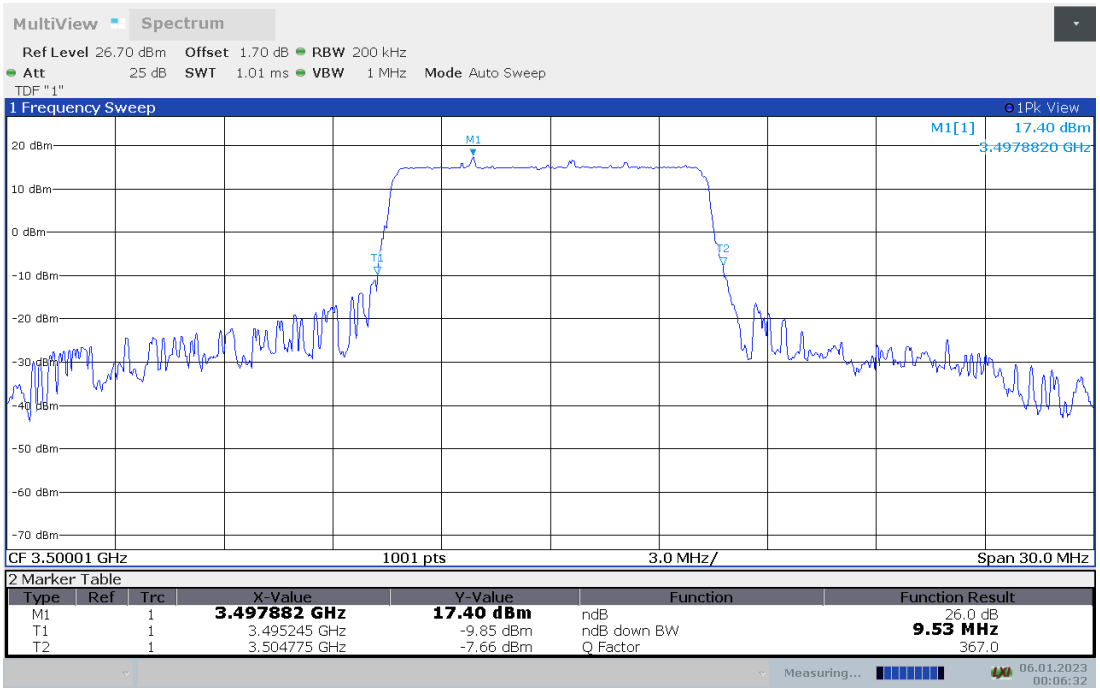


n78L

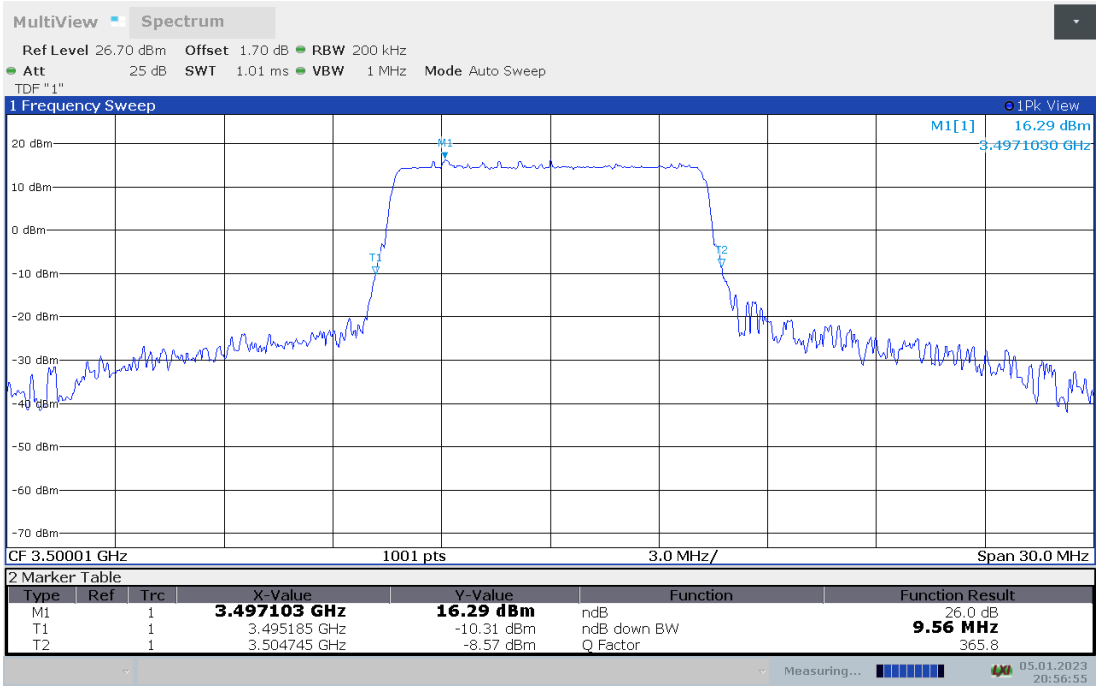
n78L,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	9.530	9.560

n78L,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



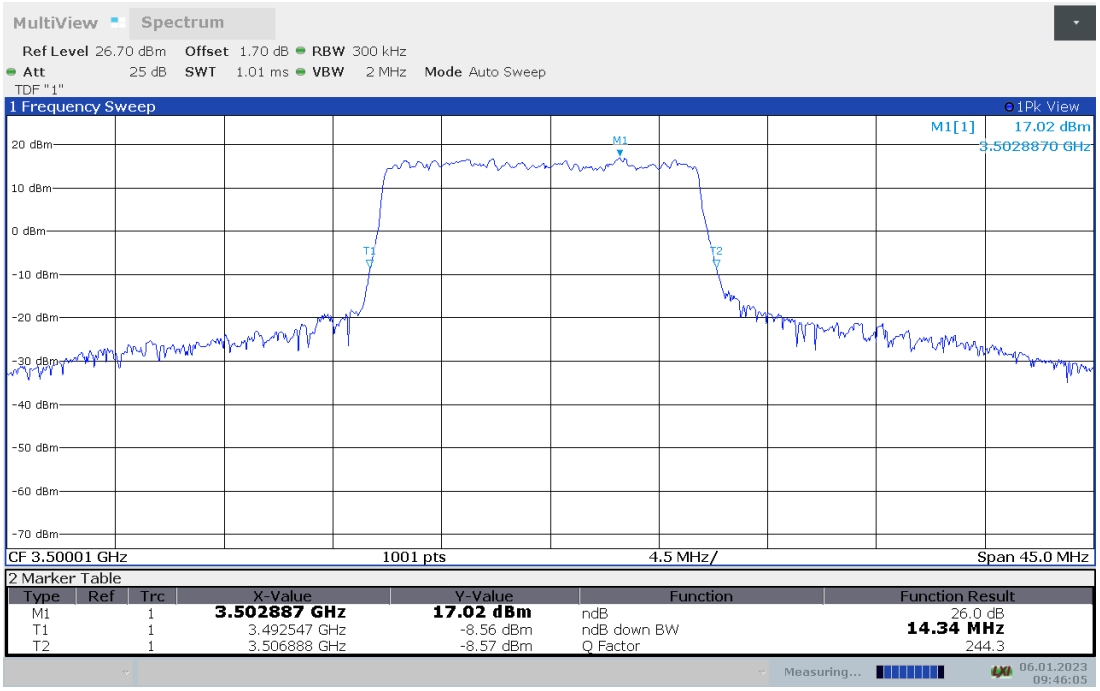
n78L,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



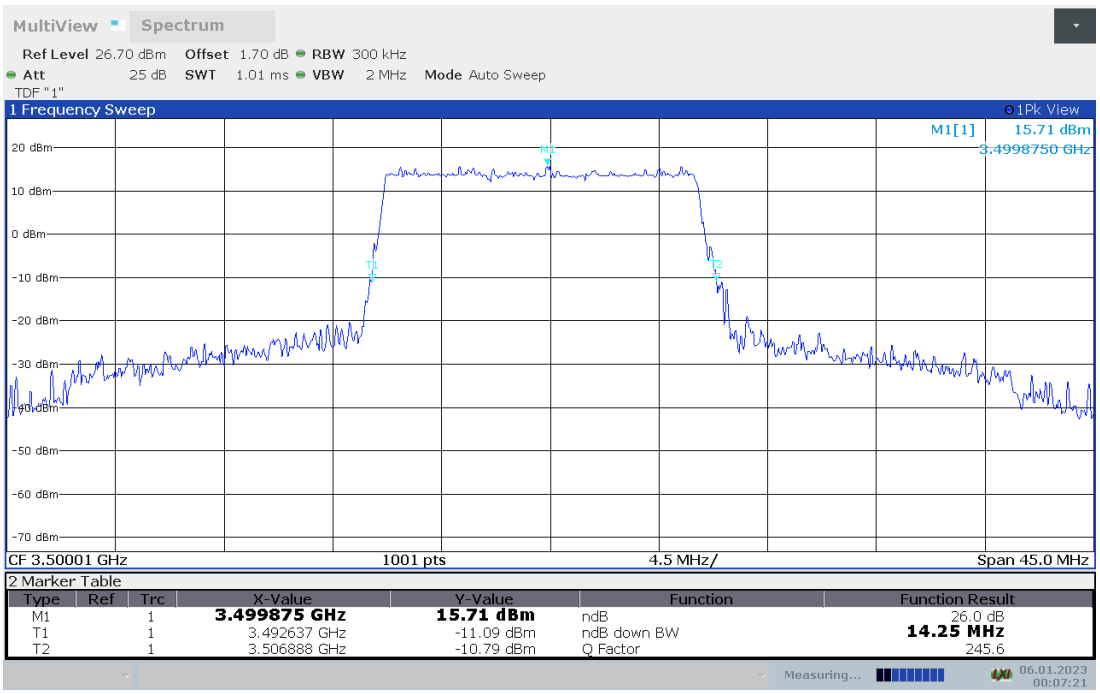
n78L,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	14.341	14.251

n78L,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



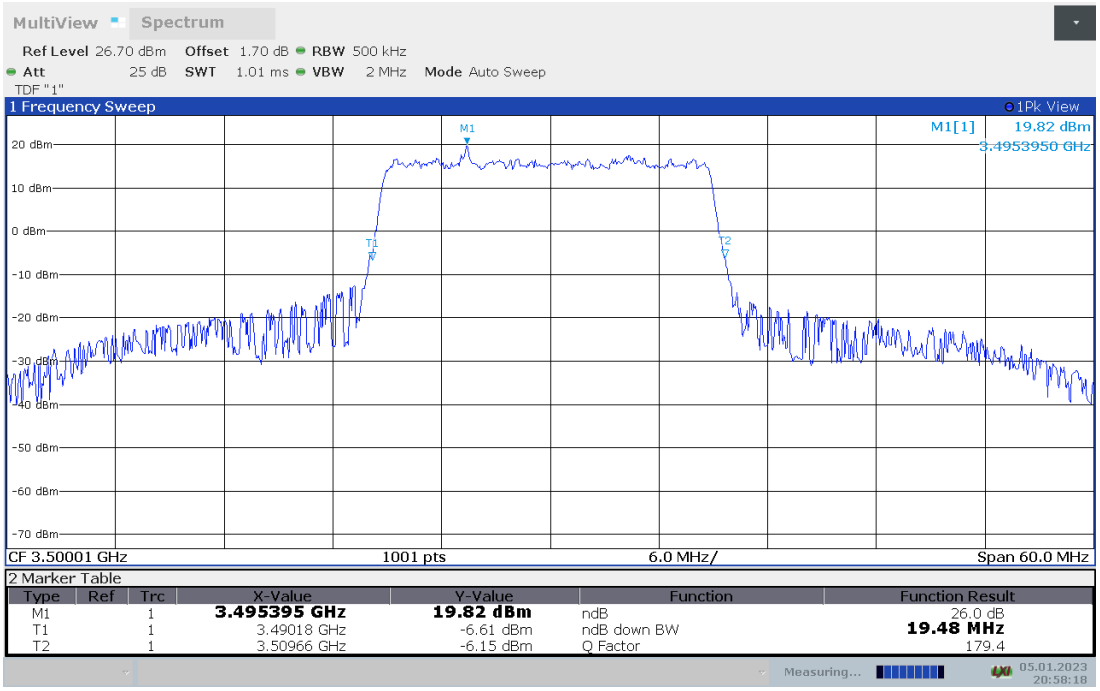
n78L,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



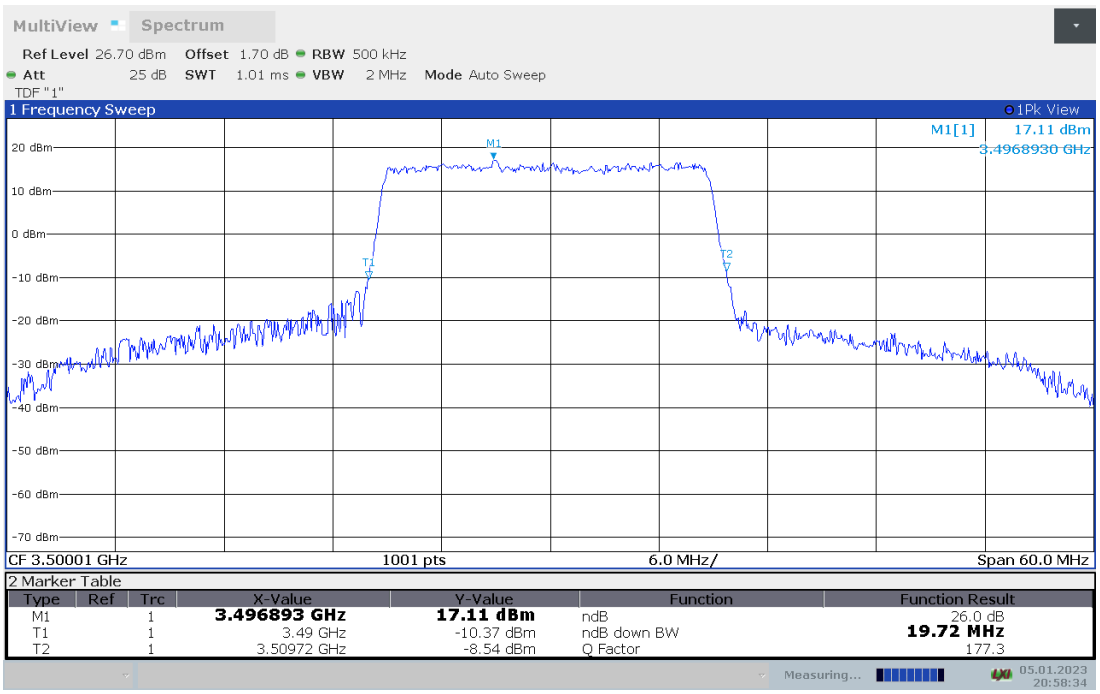
n78L,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	19.481	19.720

n78L,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



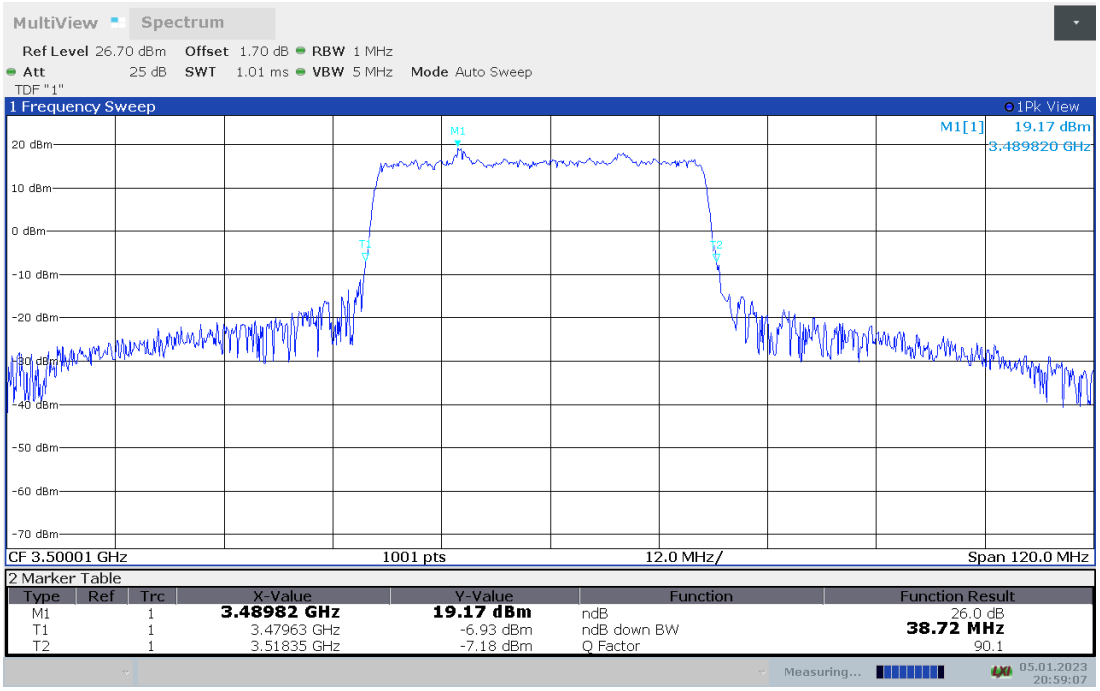
n78L,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



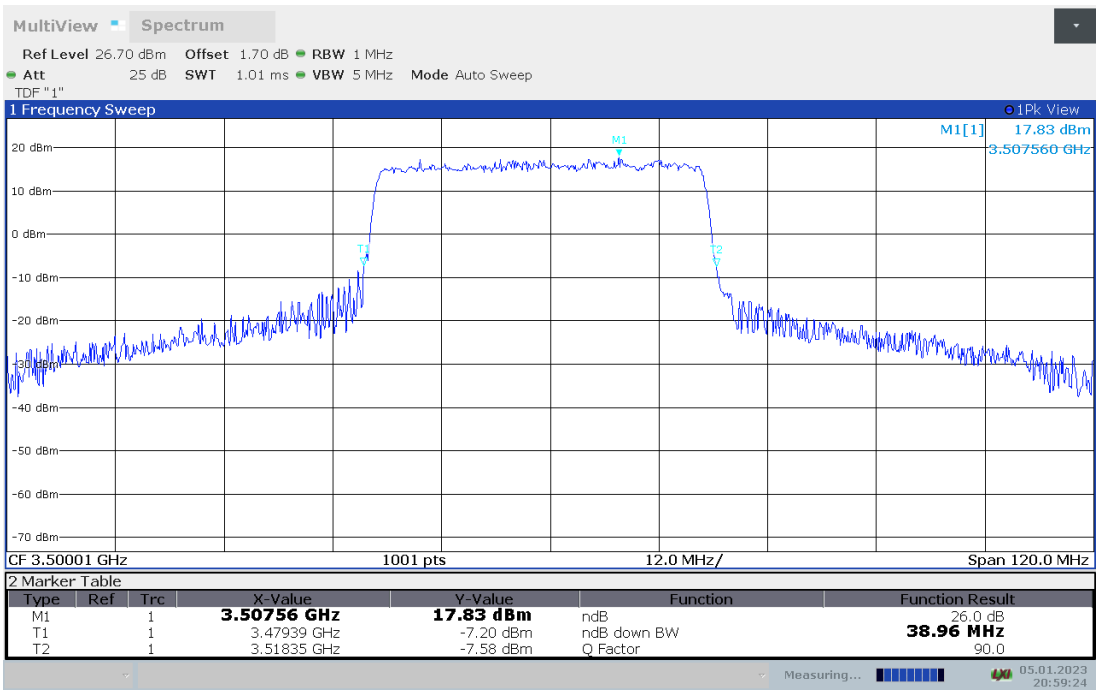
n78L,40MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	38.720	38.960

n78L,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



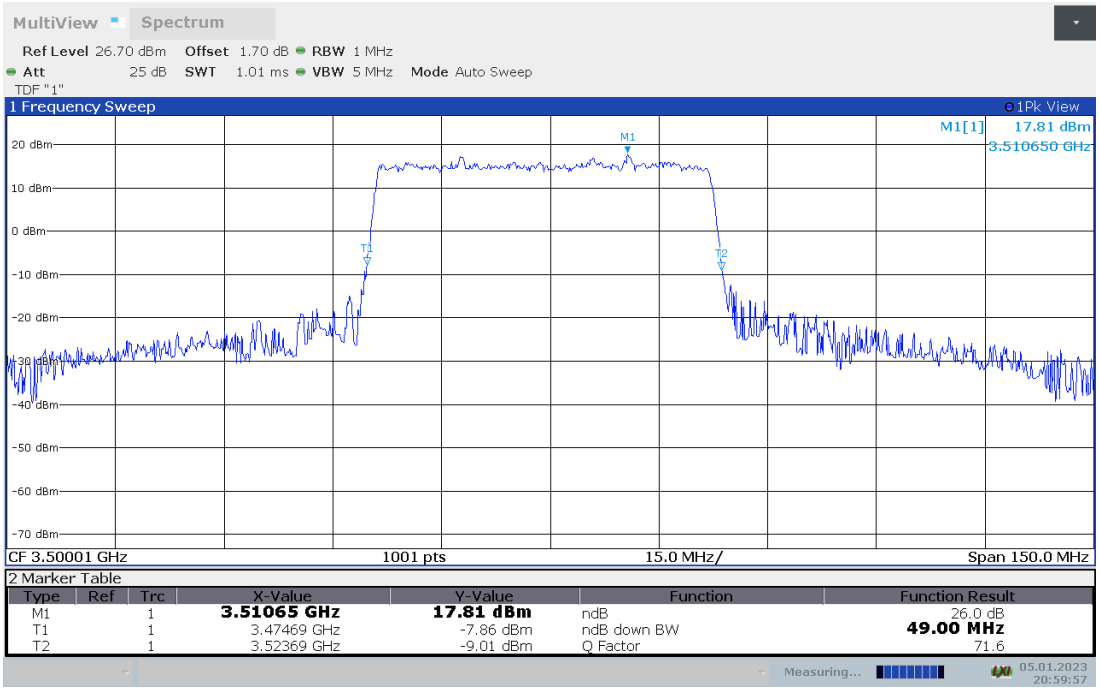
n78L,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



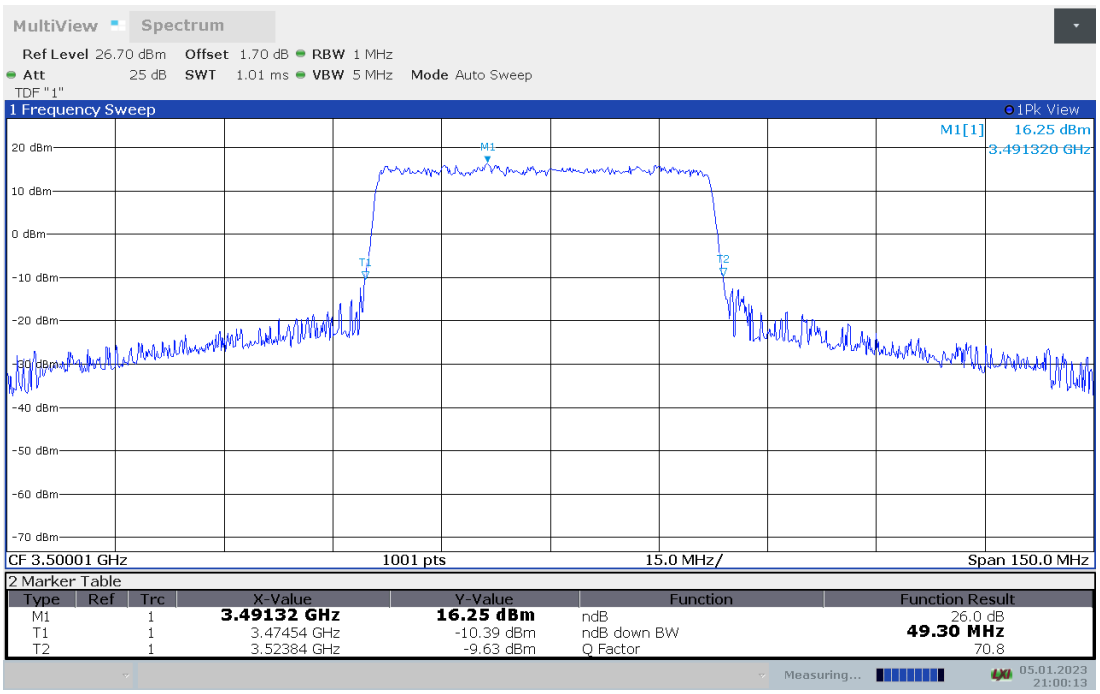
n78L,50MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	49.000	49.300

n78L,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



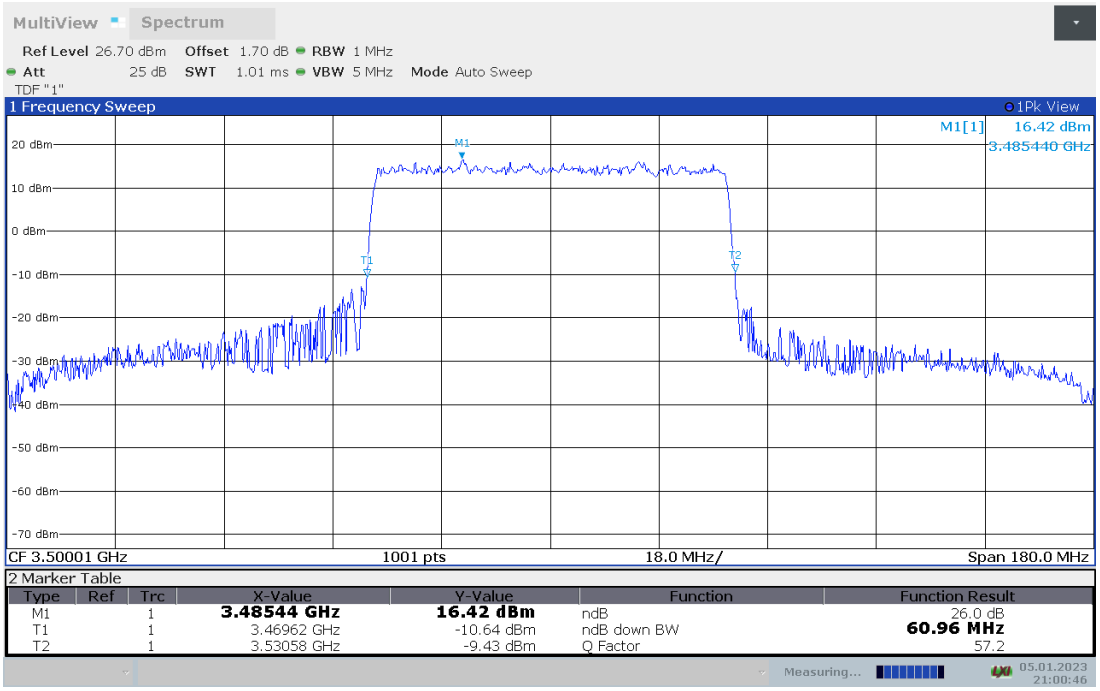
n78L,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



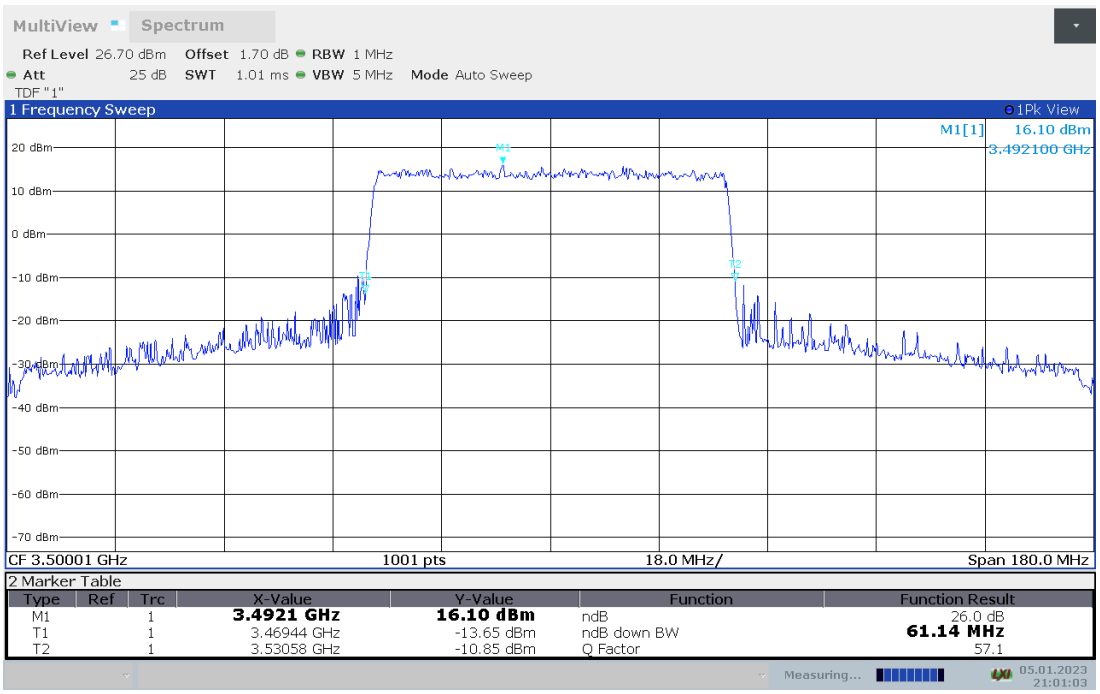
n78L,60MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	60.960	61.140

n78L,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



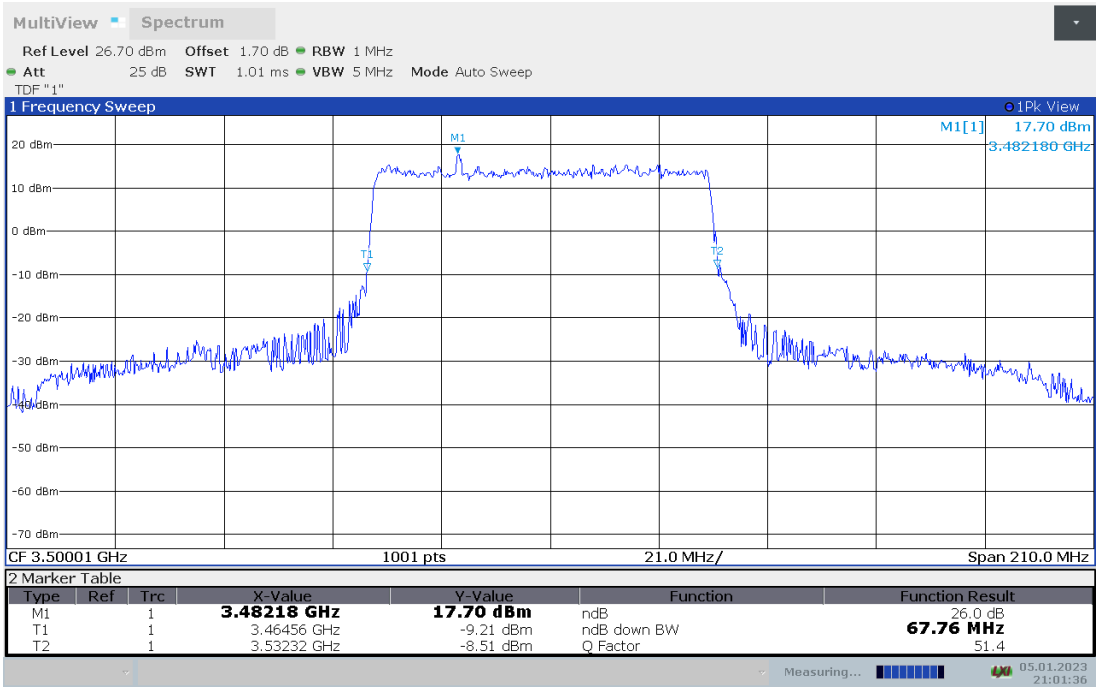
n78L,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



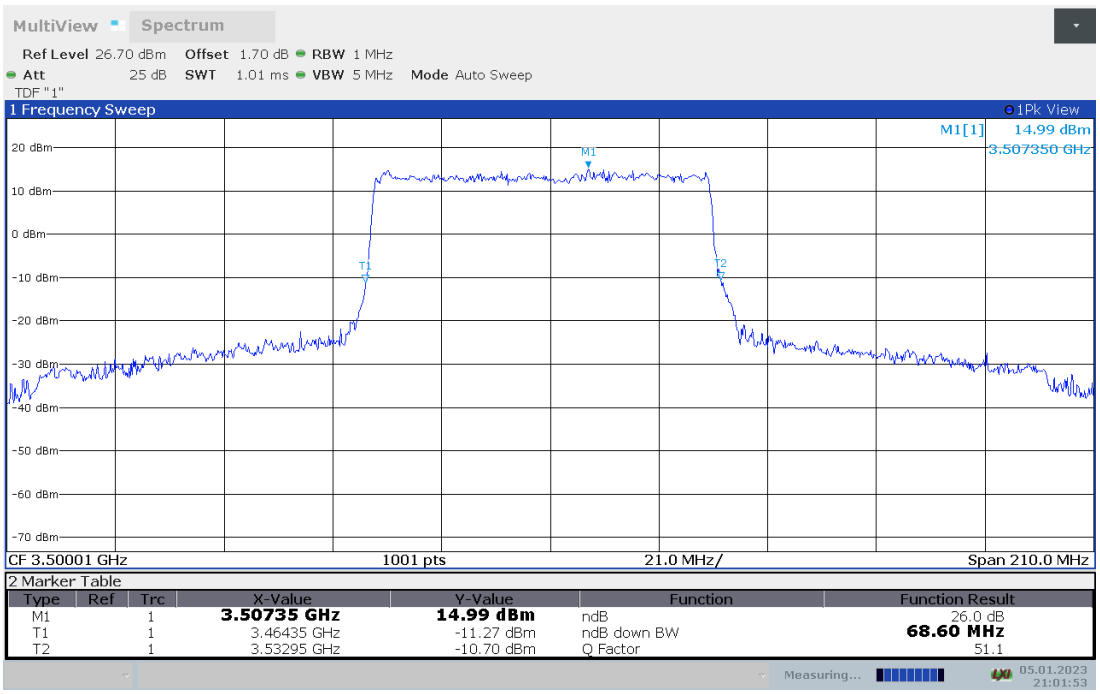
n78L,70MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	67.760	68.600

n78L,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



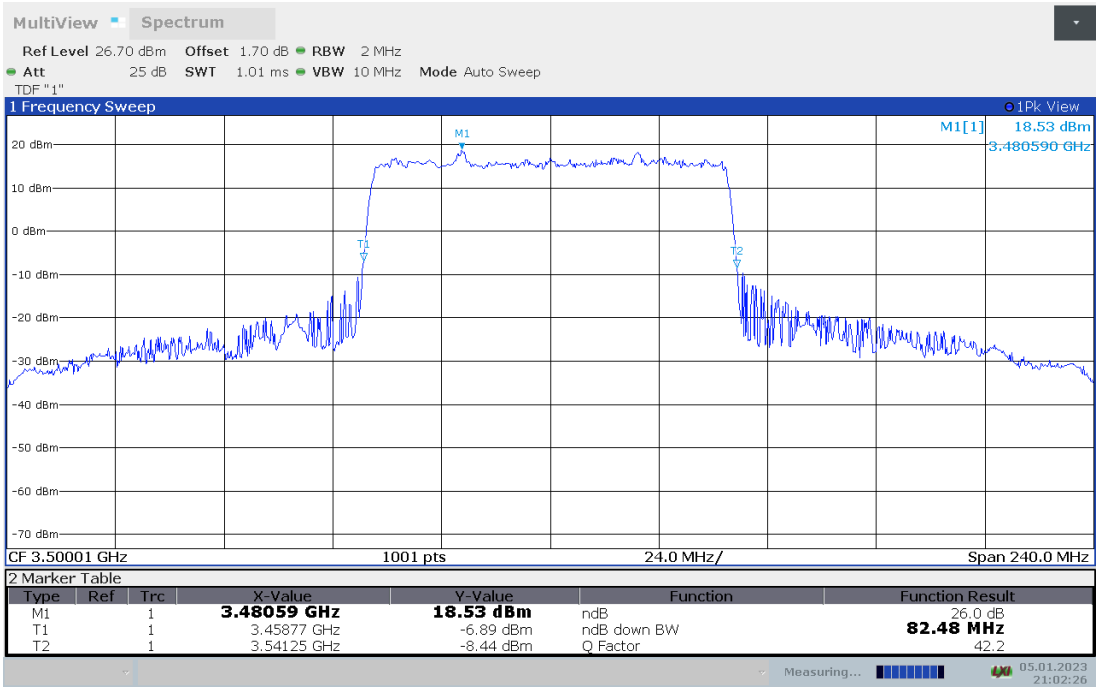
n78L,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



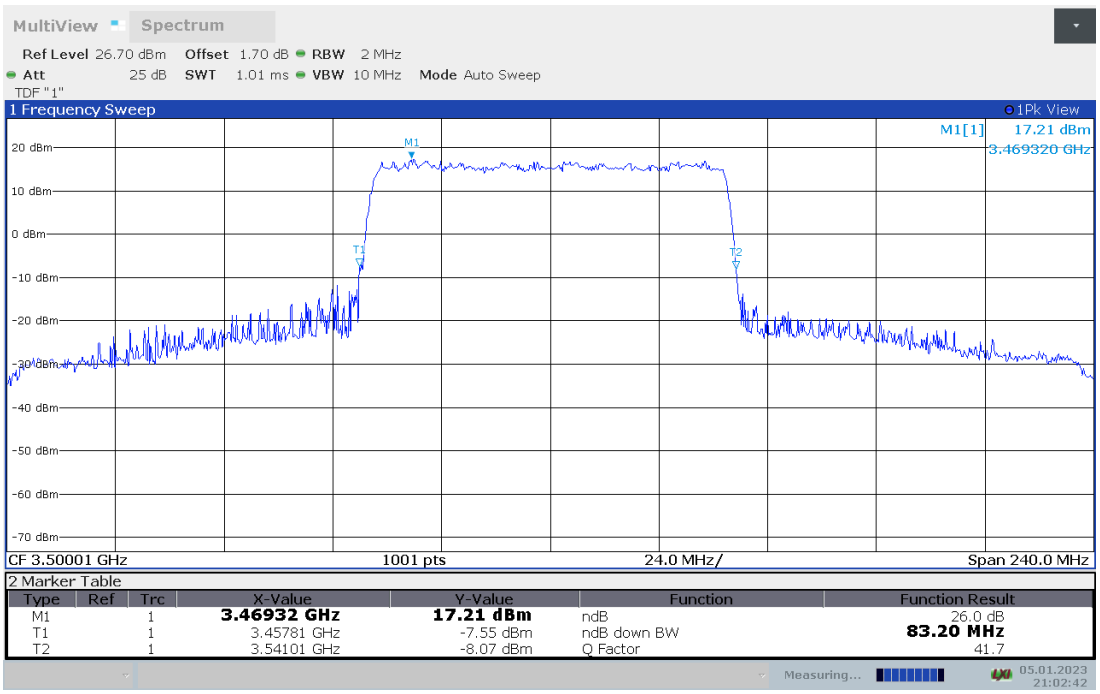
n78L,80MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	82.480	83.200

n78L,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



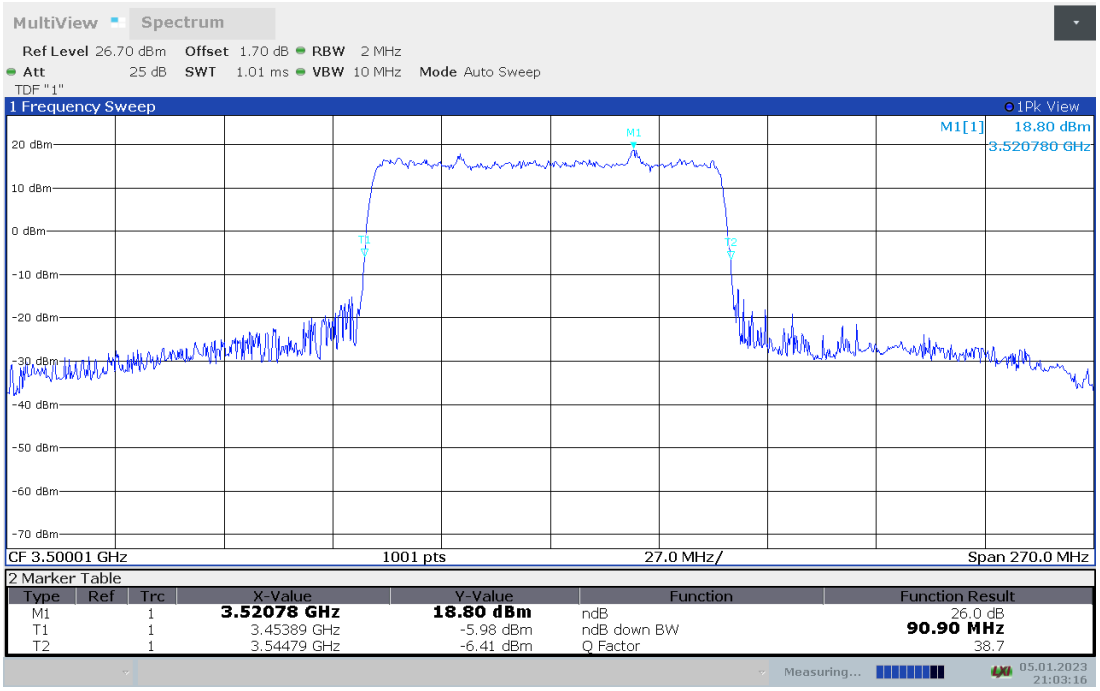
n78L,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



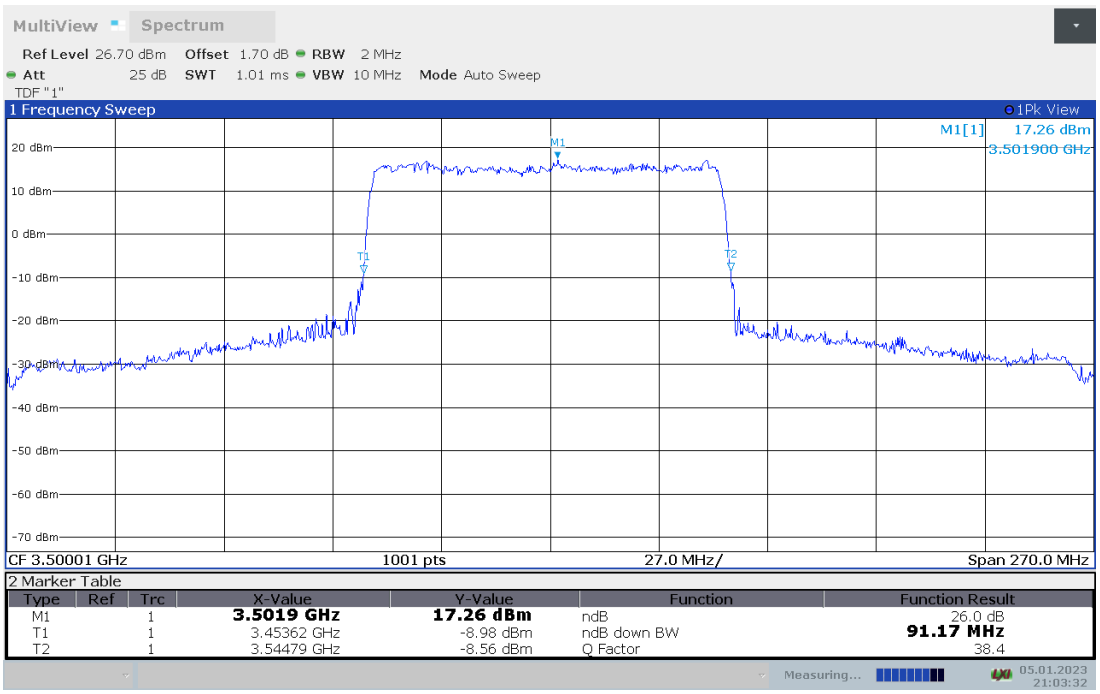
n78L,90MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	90.900	91.170

n78L,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



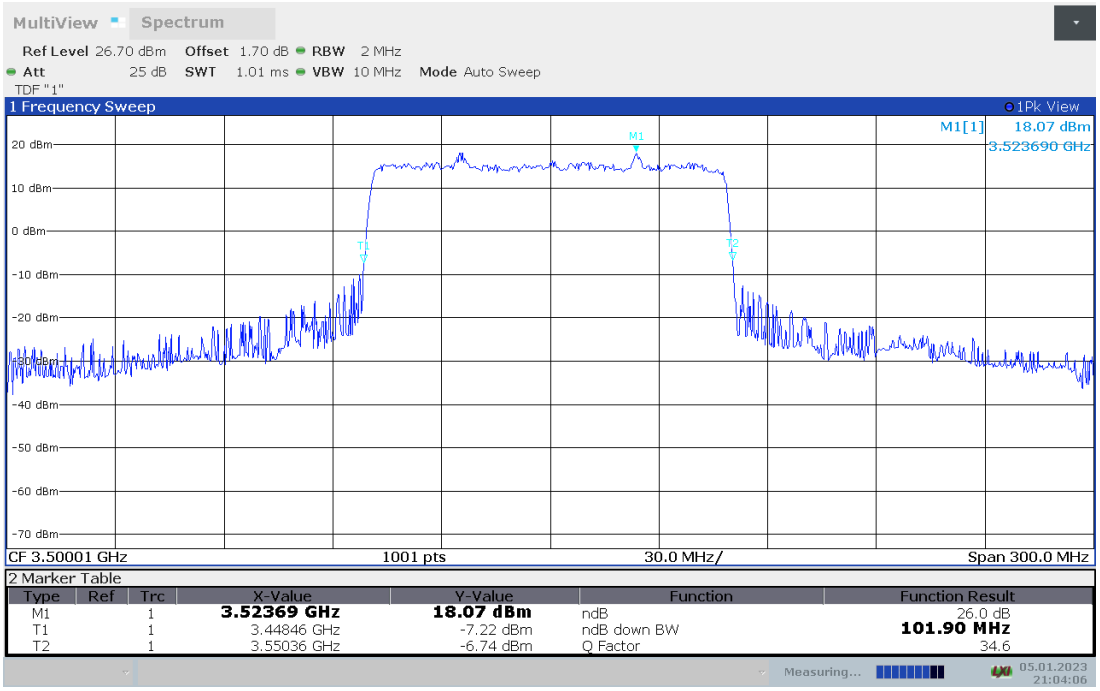
n78L,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



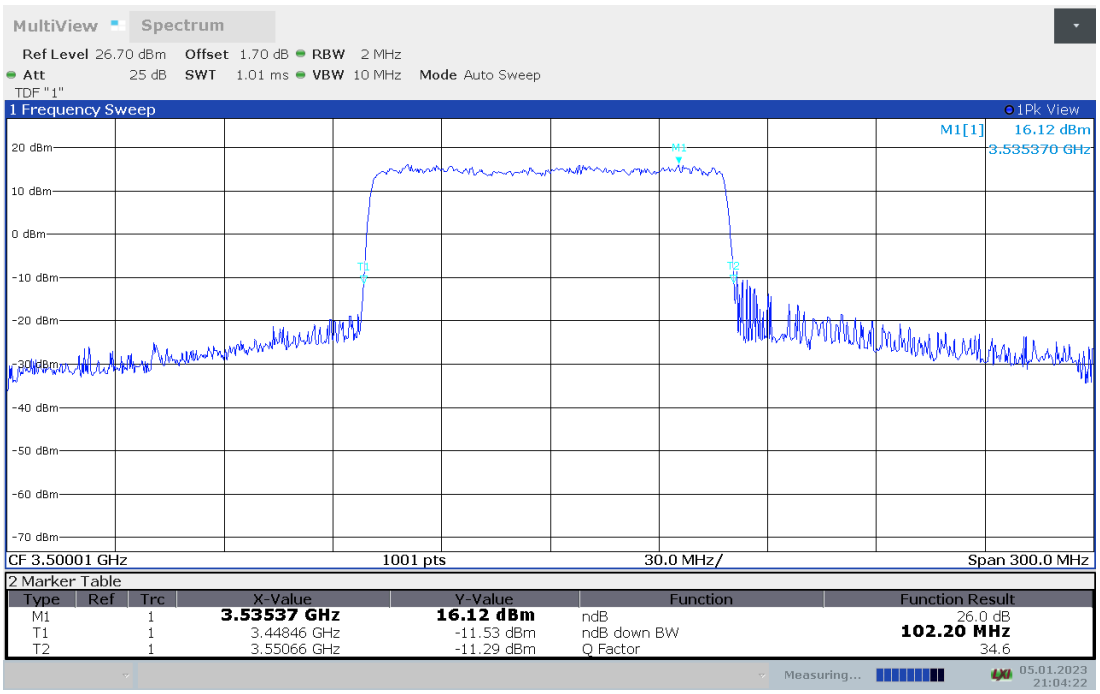
n78L,100MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	101.900	102.200

n78L,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n78L,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

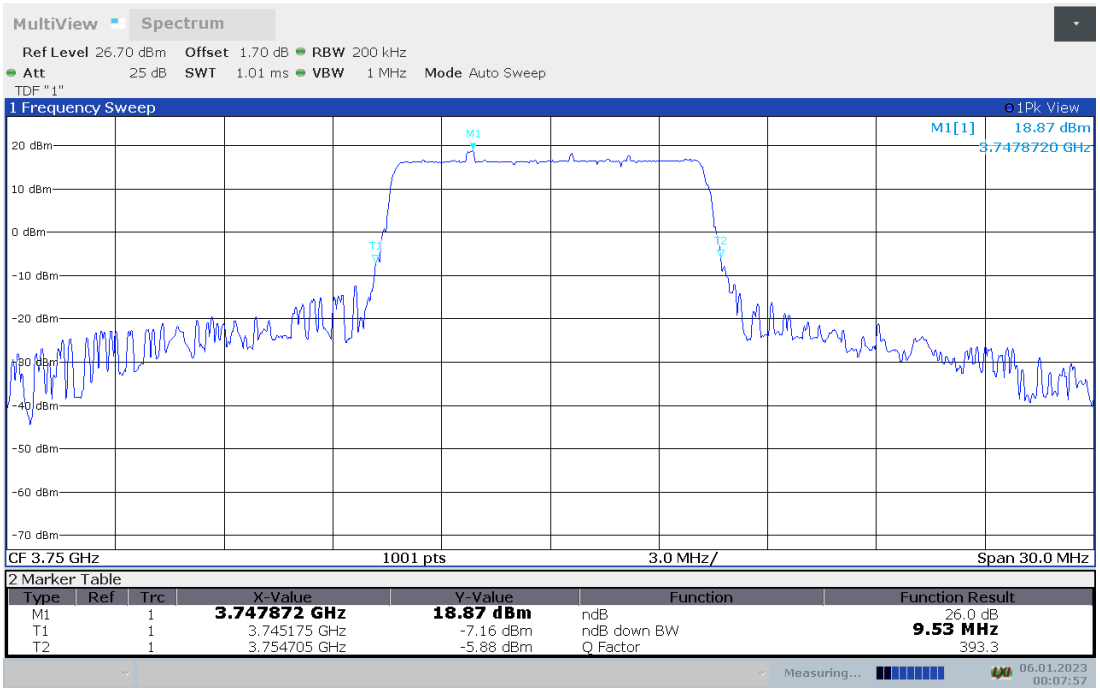


n78H

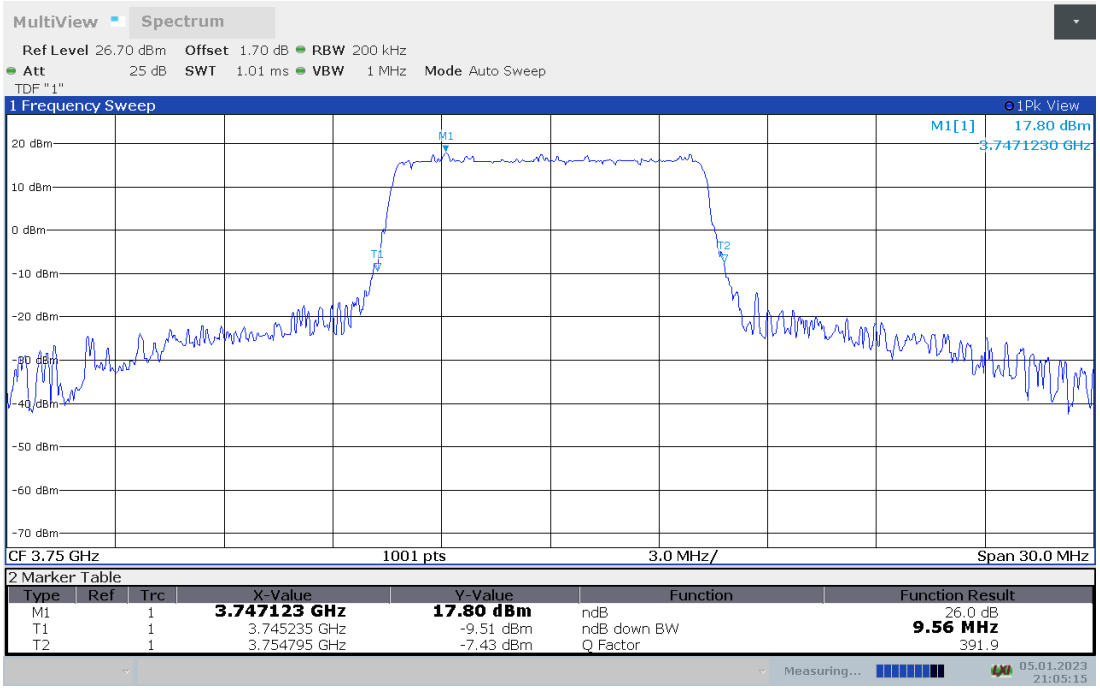
n78H,10MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	9.530	9.560

n78H,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



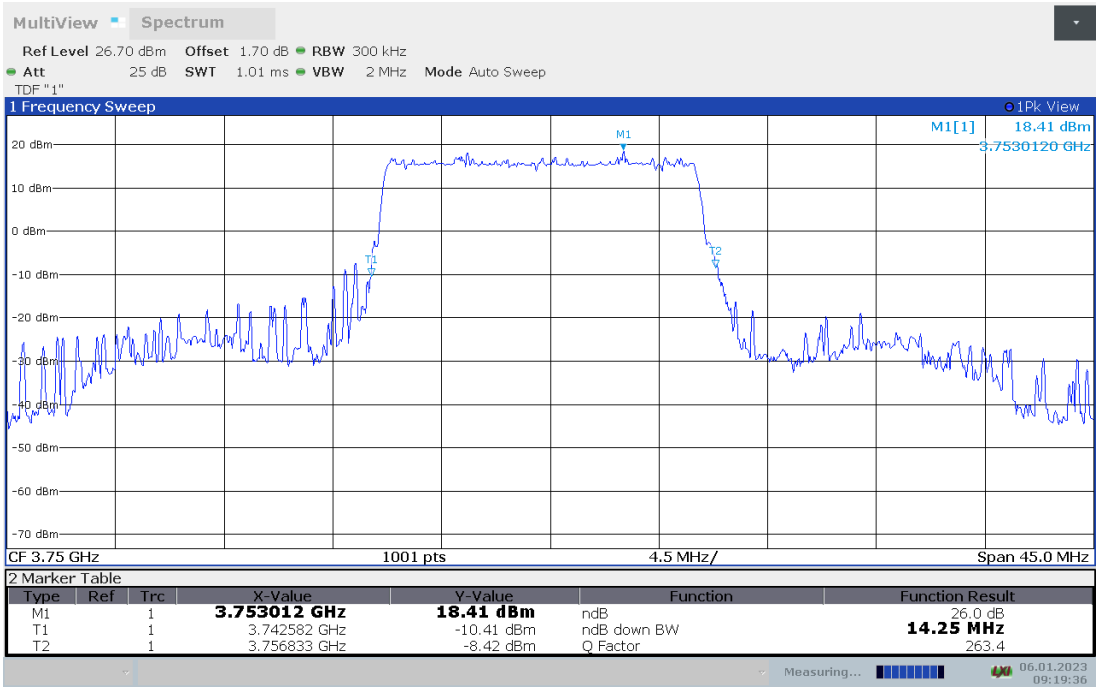
n78H,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



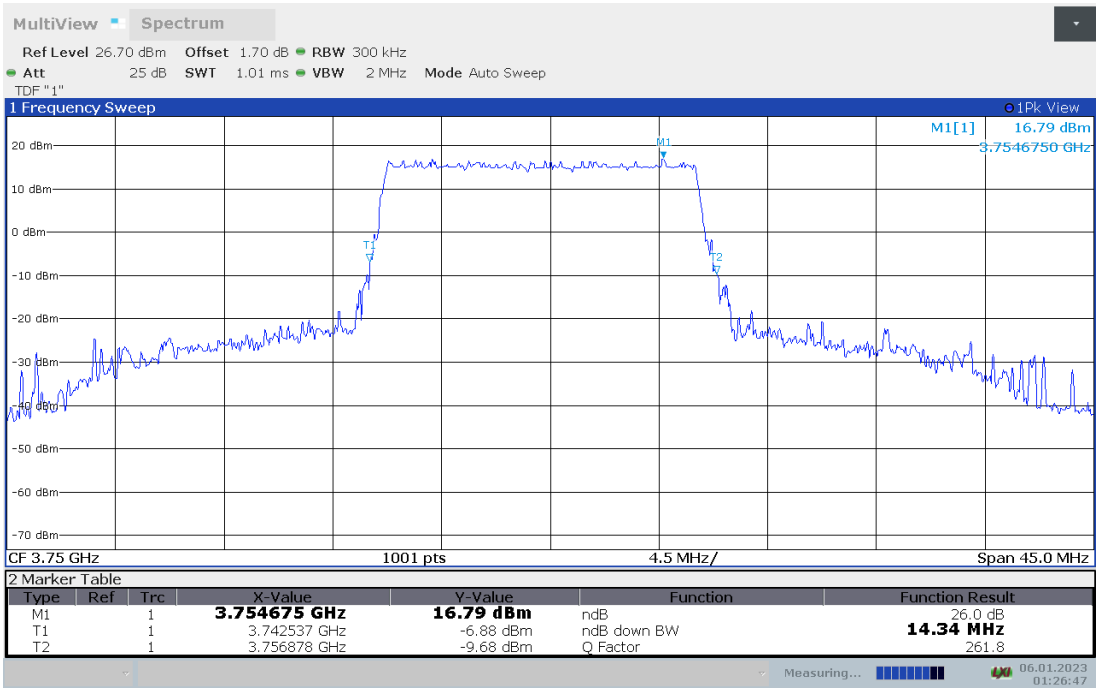
n78H,15MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	14.251	14.341

n78H,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



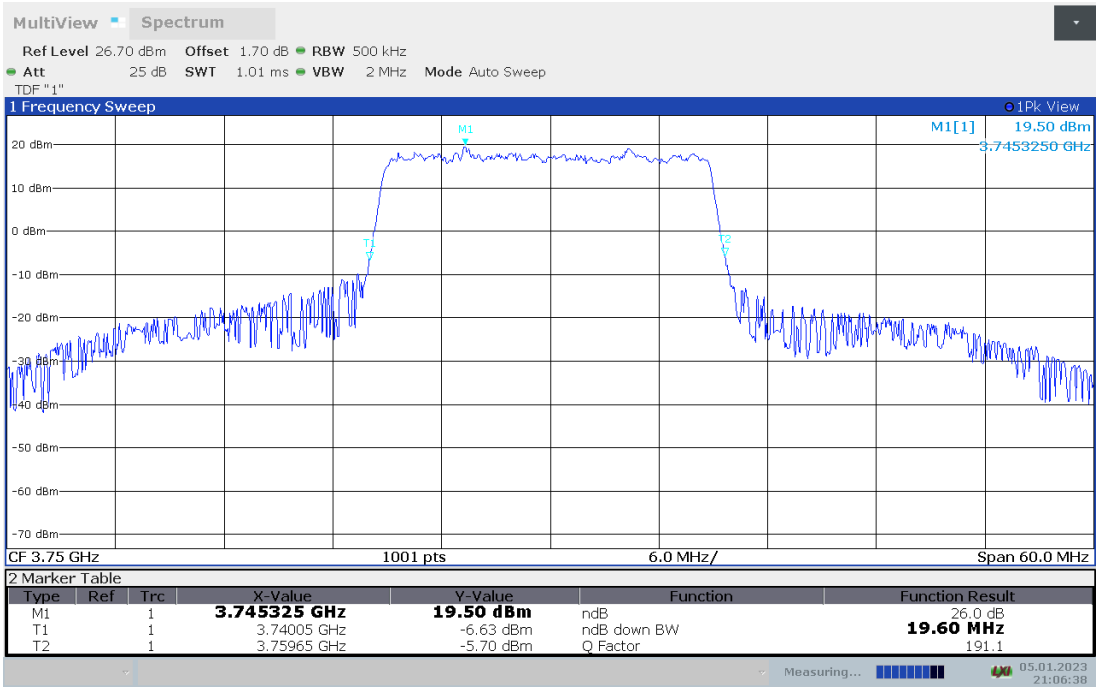
n78H,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



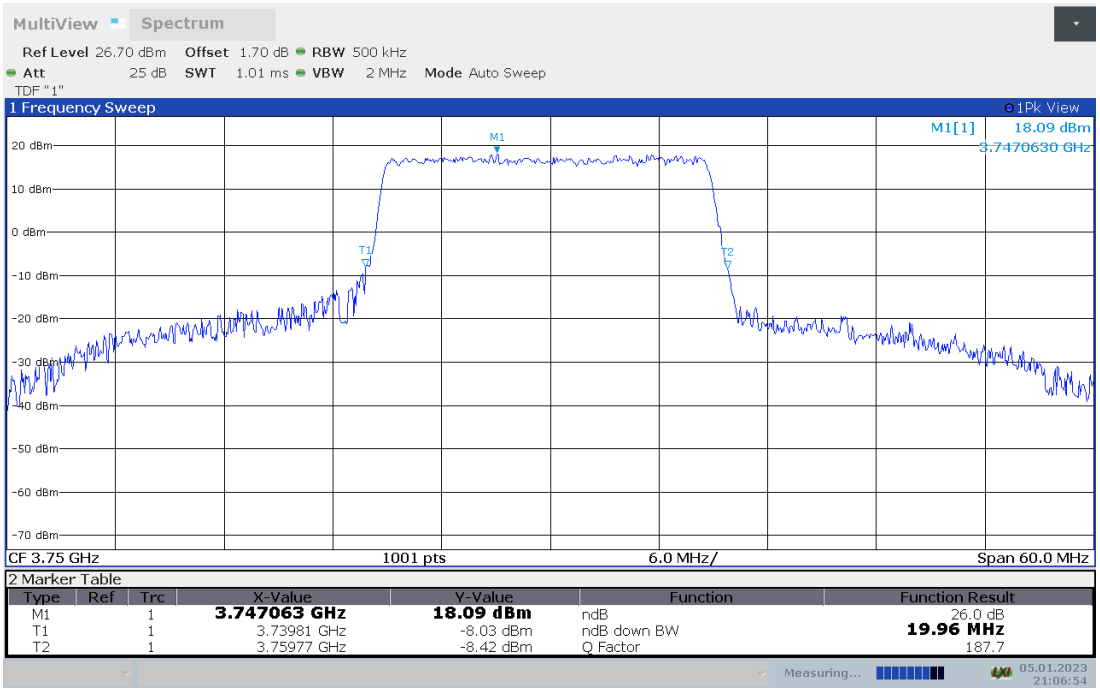
n78H,20MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	19.600	19.960

n78H,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



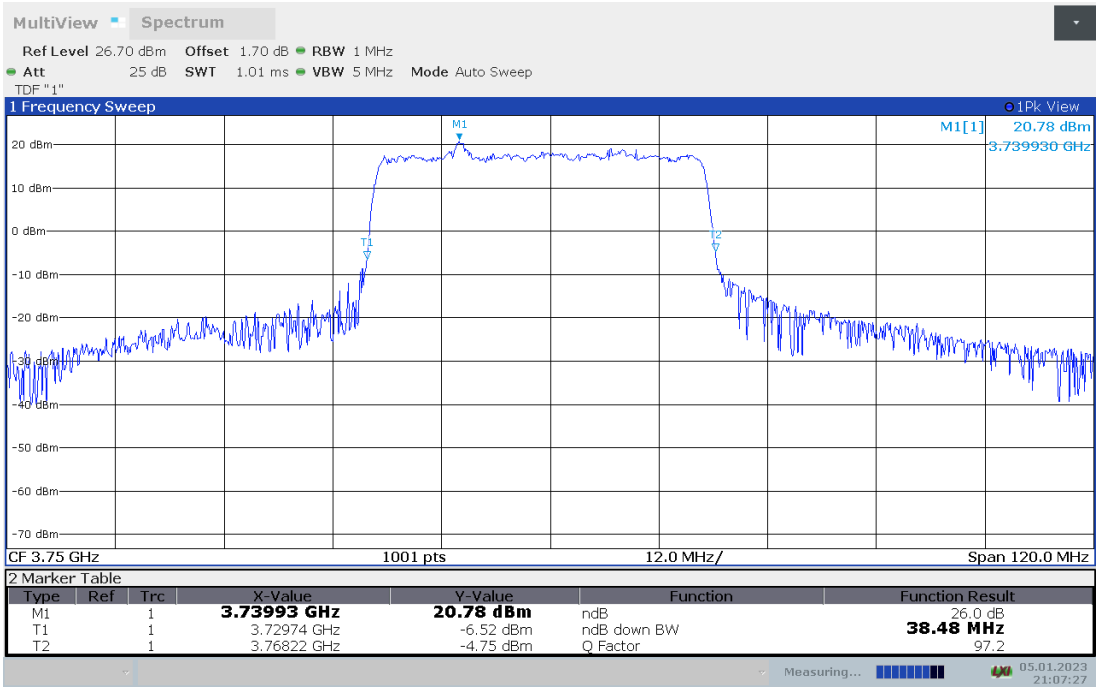
n78H,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



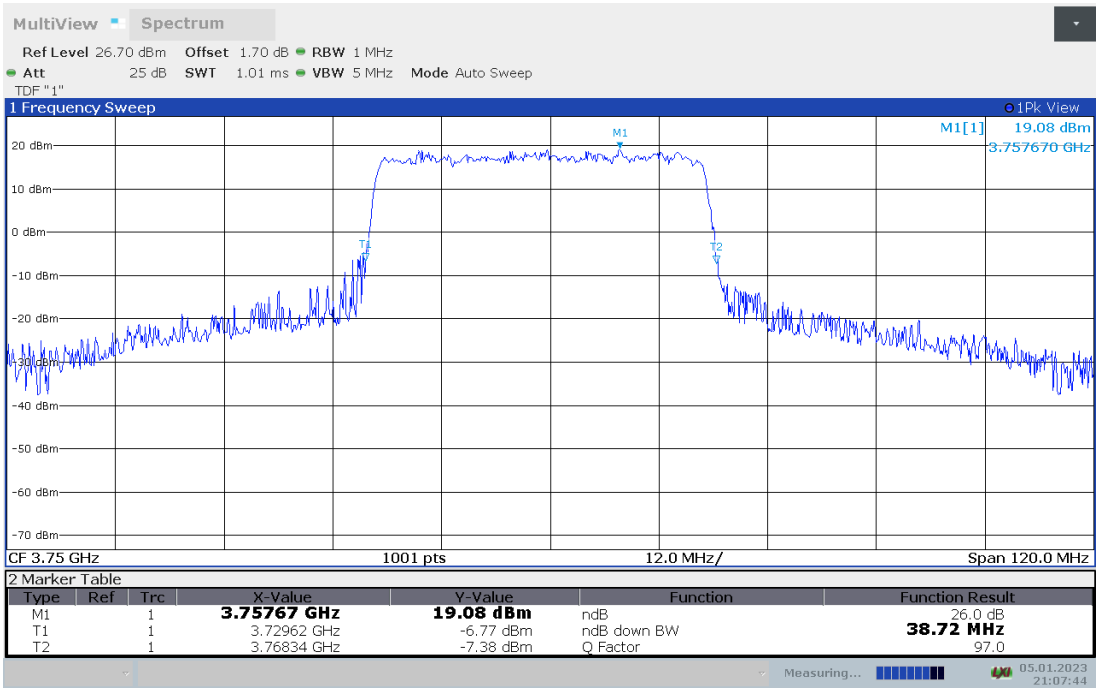
n78H,40MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	38.480	38.720

n78H,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



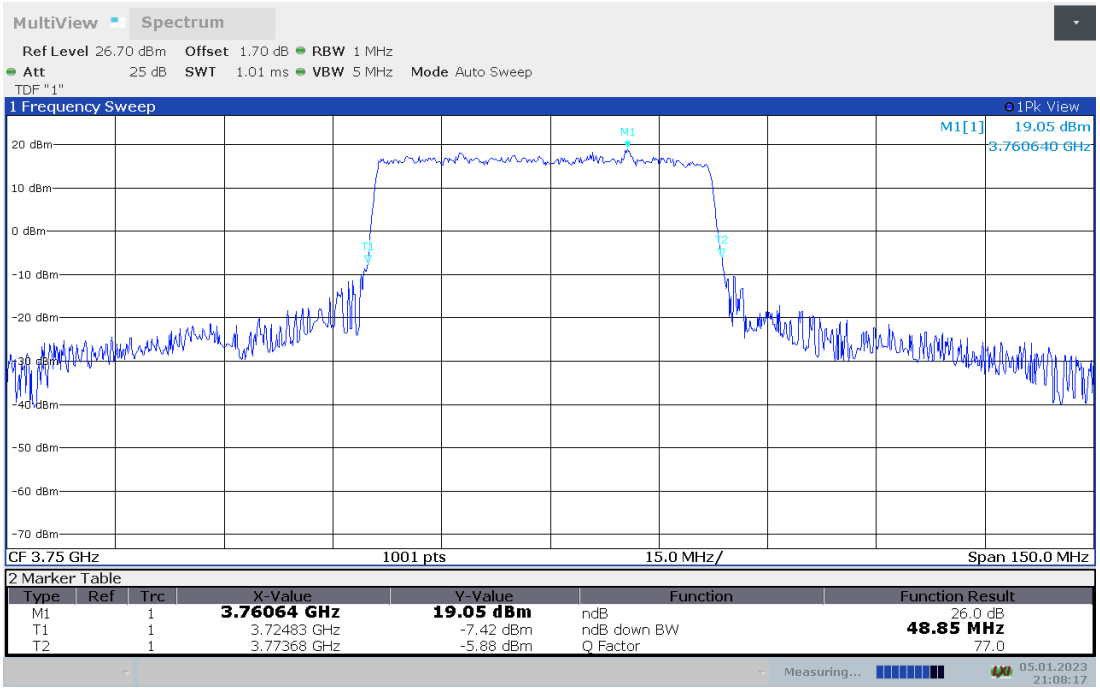
n78H,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



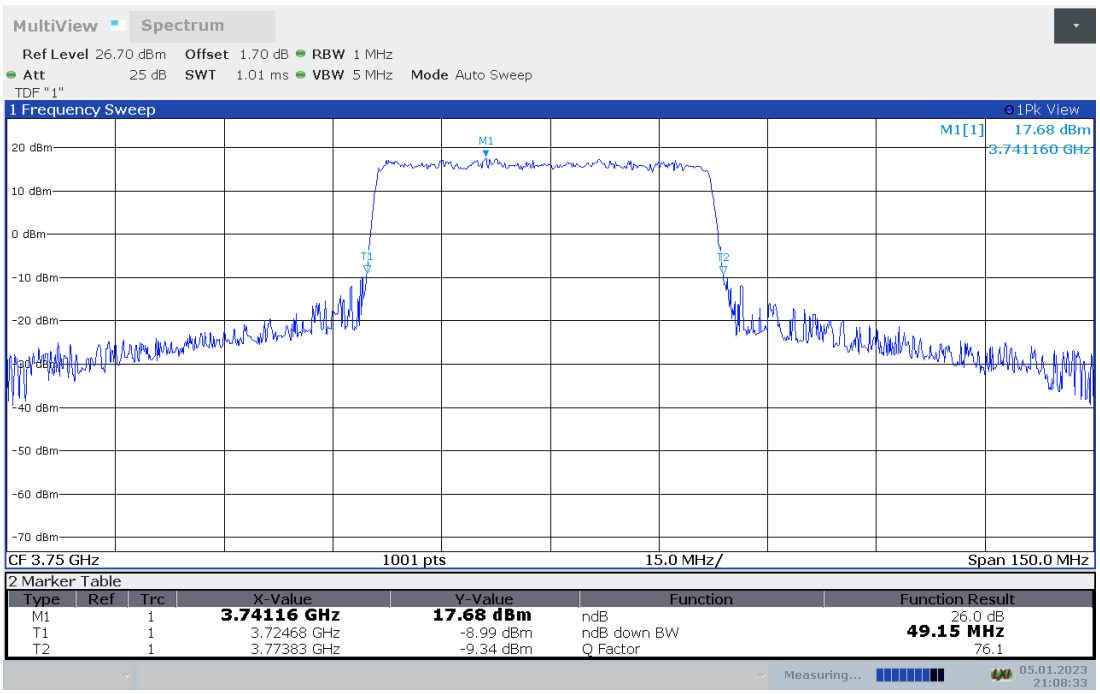
n78H,50MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	48.850	49.150

n78H,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



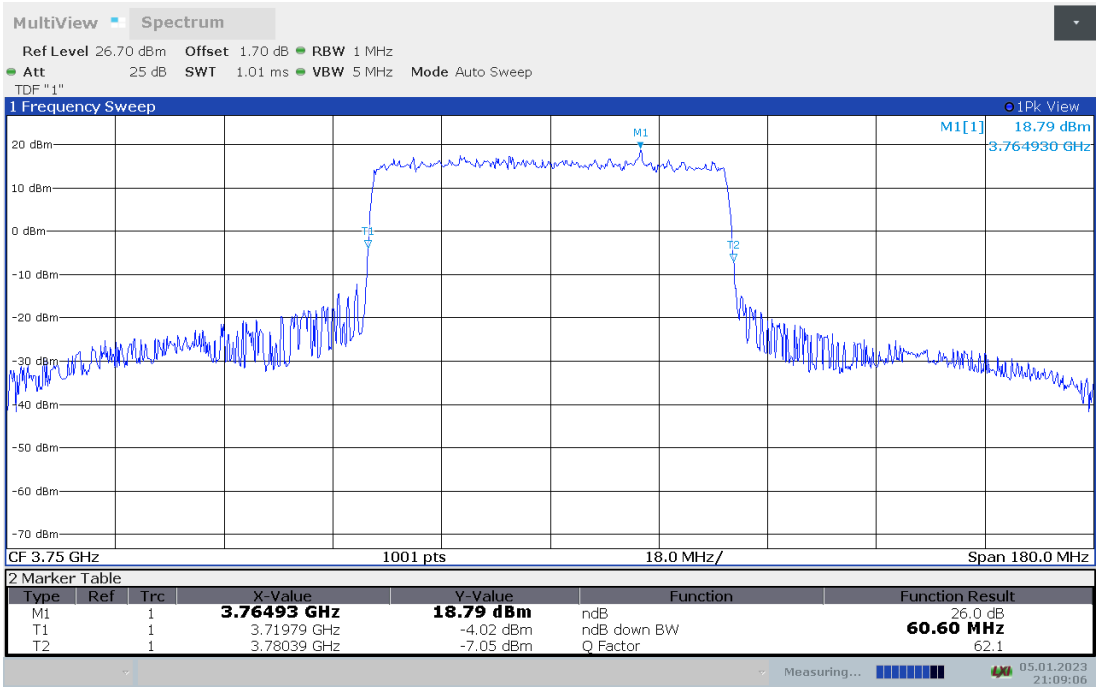
n78H,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



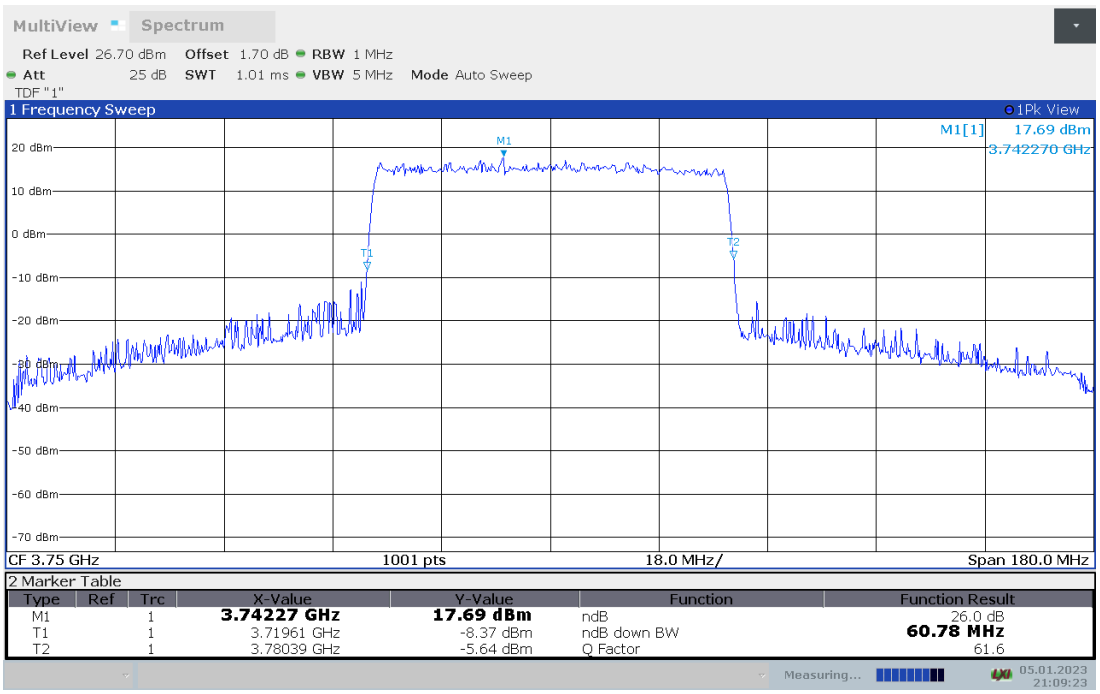
n78H,60MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	60.600	60.780

n78H,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



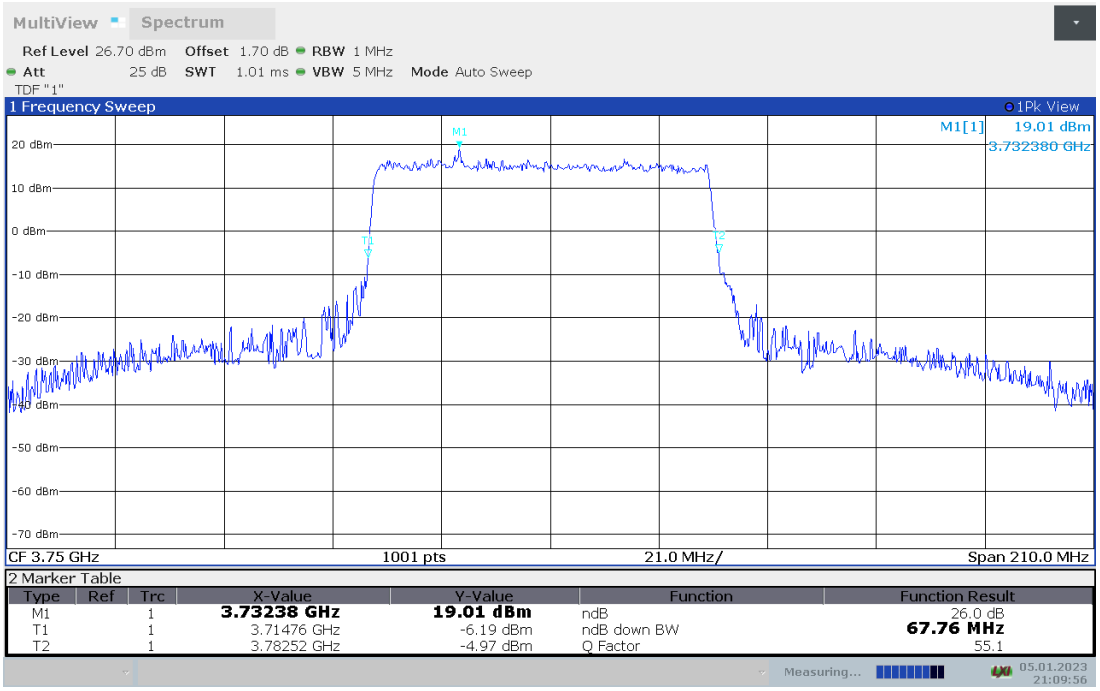
n78H,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



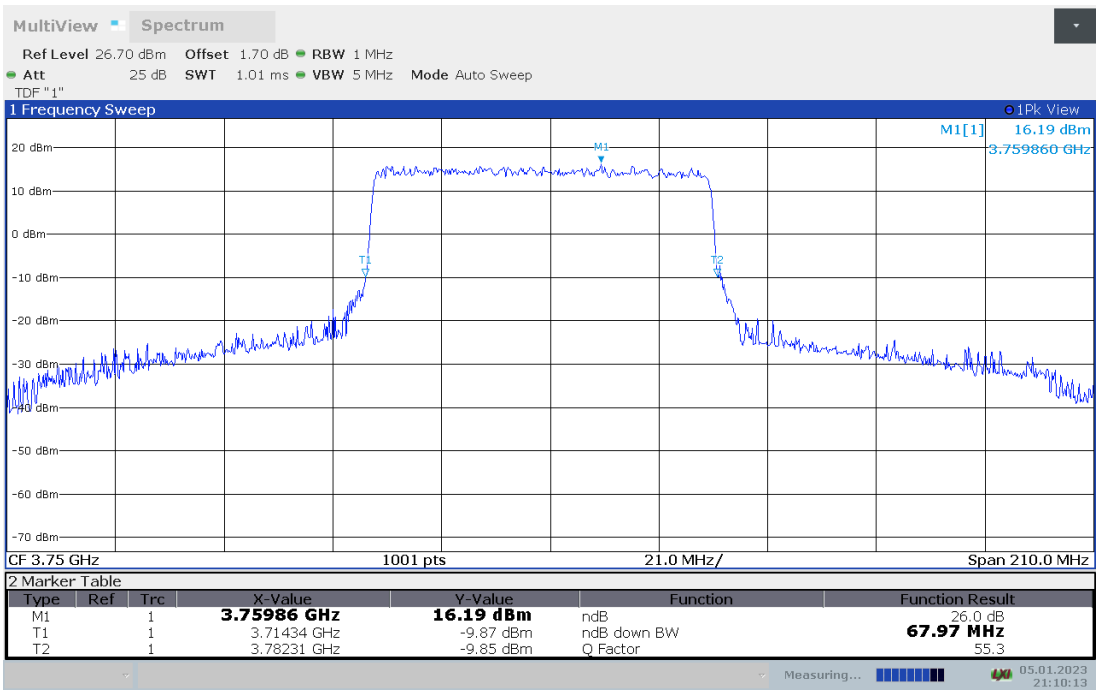
n78H,70MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	67.760	67.970

n78H,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



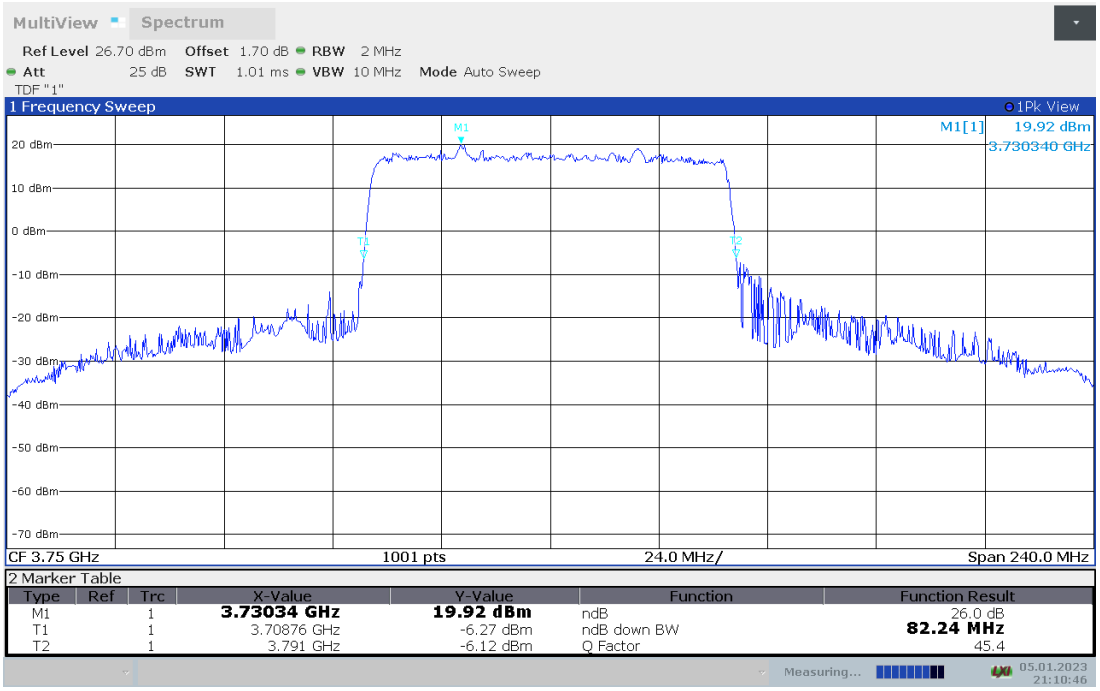
n78H,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



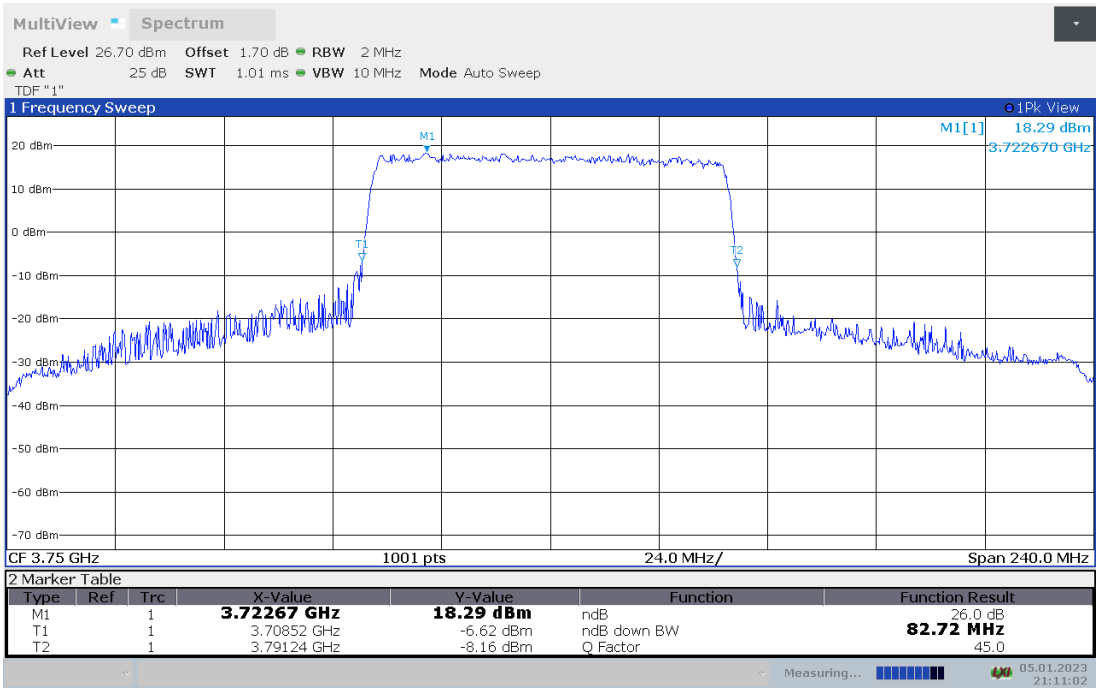
n78H,80MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	82.240	82.720

n78H,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



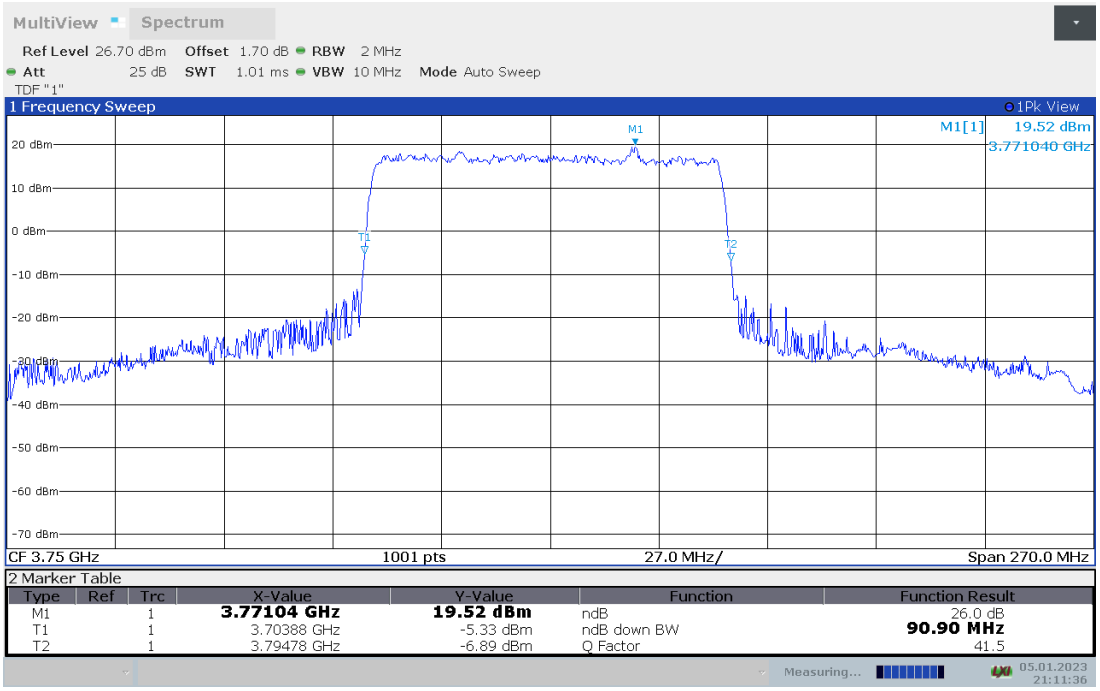
n78H,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



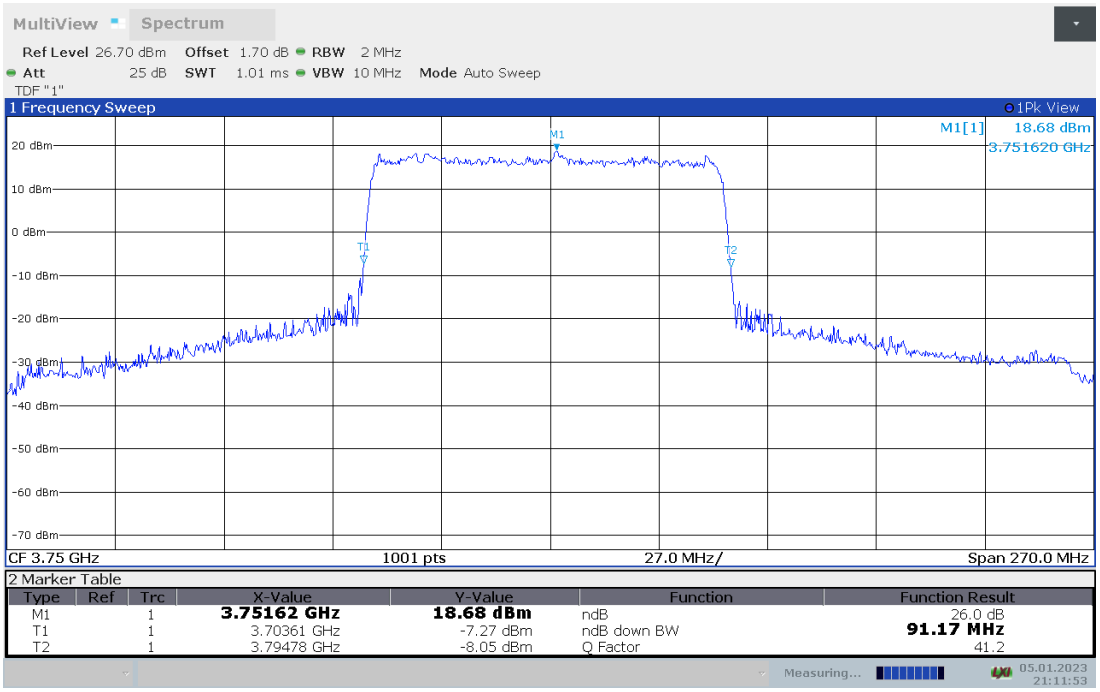
n78H,90MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	90.900	91.170

n78H,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



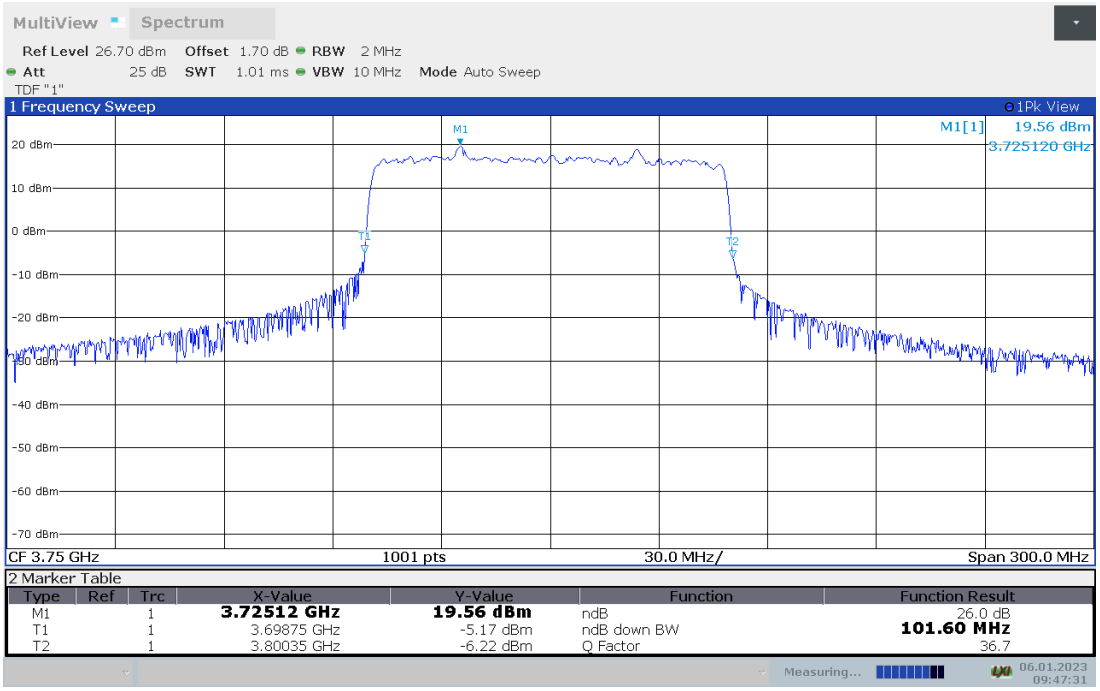
n78H,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



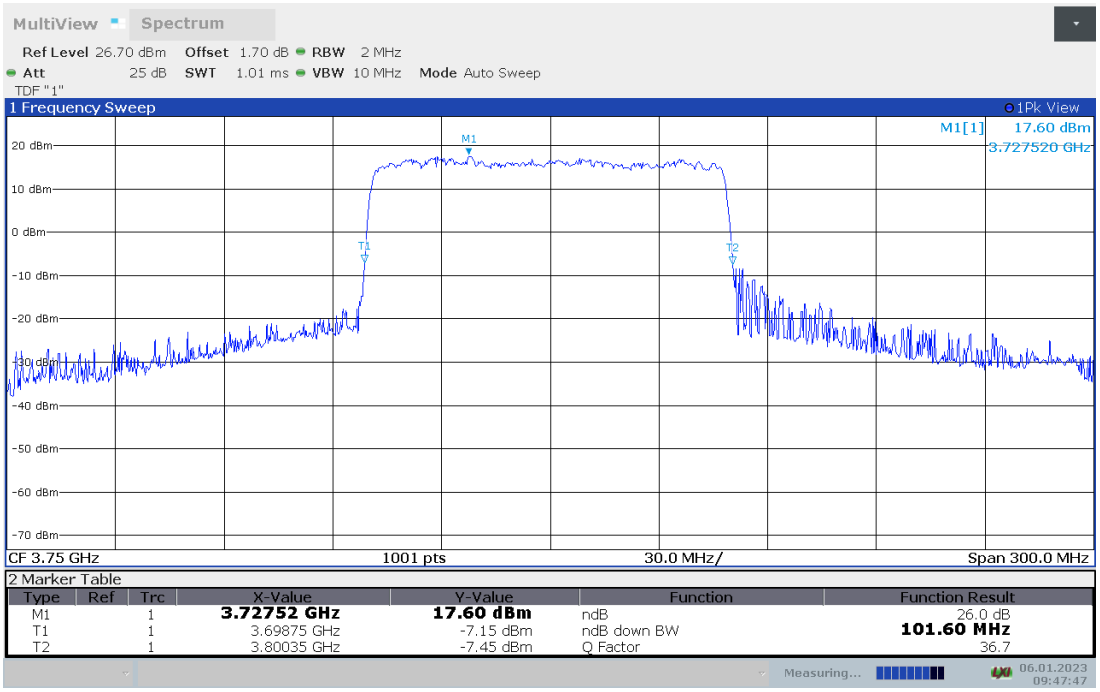
n78H,100MHz(-26dBc BW)

Frequency (MHz)	Emission Bandwidth (-26dBc BW) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	101.600	101.600

n78H,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n78H,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



Note: Expanded measurement uncertainty is U = 3428 Hz, k = 2

A.5 BAND EDGE COMPLIANCE

A.5.1 Measurement limit

Part 22.917,Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10 log(P) dB.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40+ 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43+10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55+10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43+10log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55+10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 +10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee’s frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee’s frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(n) states for base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with the provisions of this paragraph (n)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Notwithstanding the channel edge requirement of −13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed −40 dBm/MHz.

Part 27.53(l) states for base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (l)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

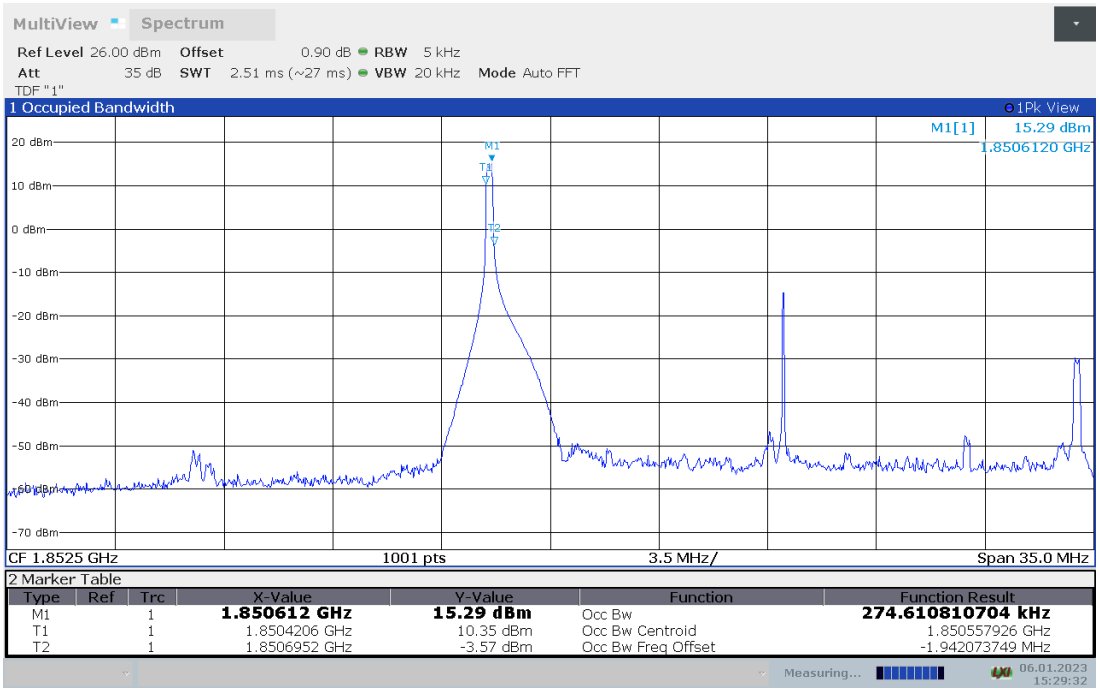
The spectrum analyzer readings are corrected by [10 log (1/duty cycle)] for the non-continuous transmitting scenario.

A.5.2Measurement result

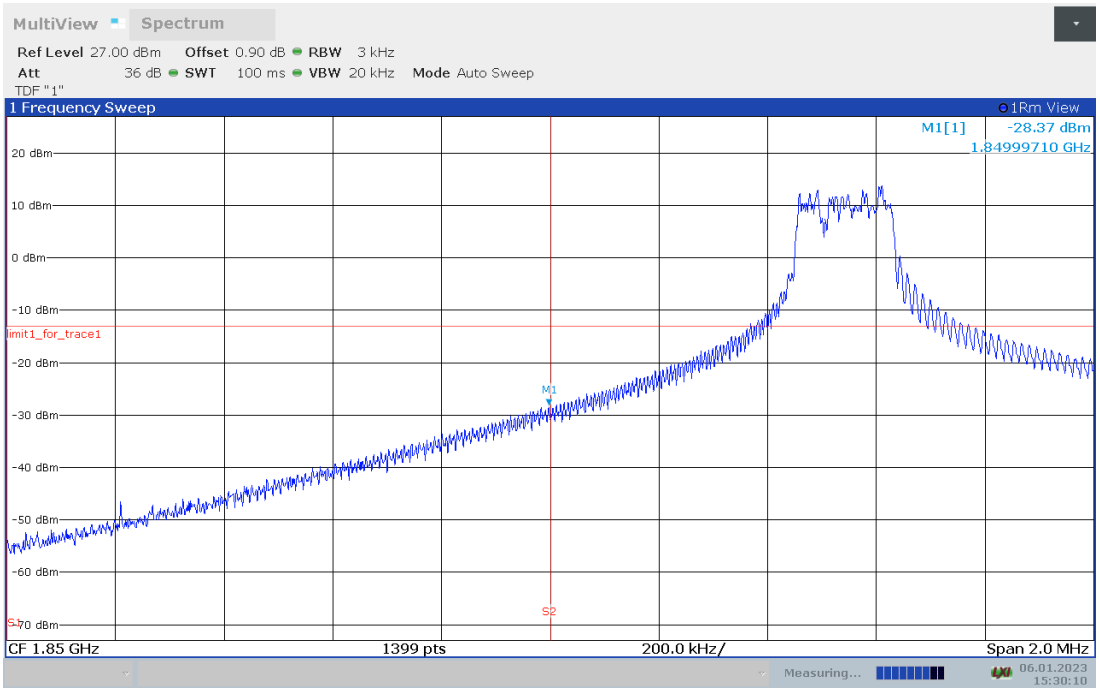
Only worst case result is given below

DC_5A_n2A

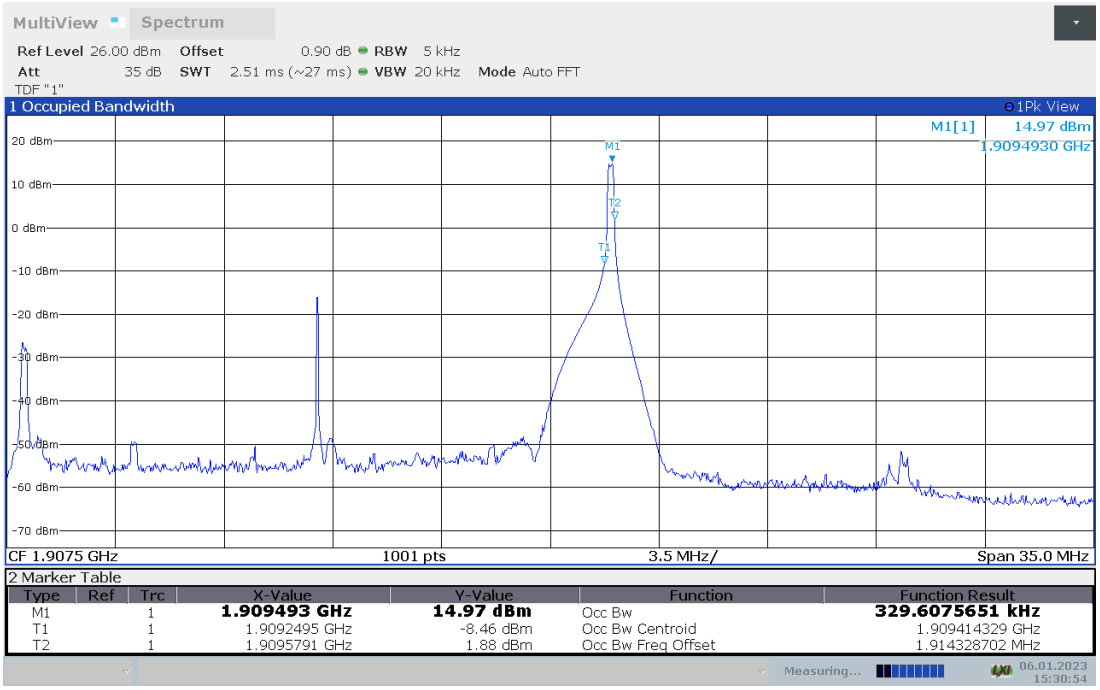
OBW: 1RB-LOW_offset



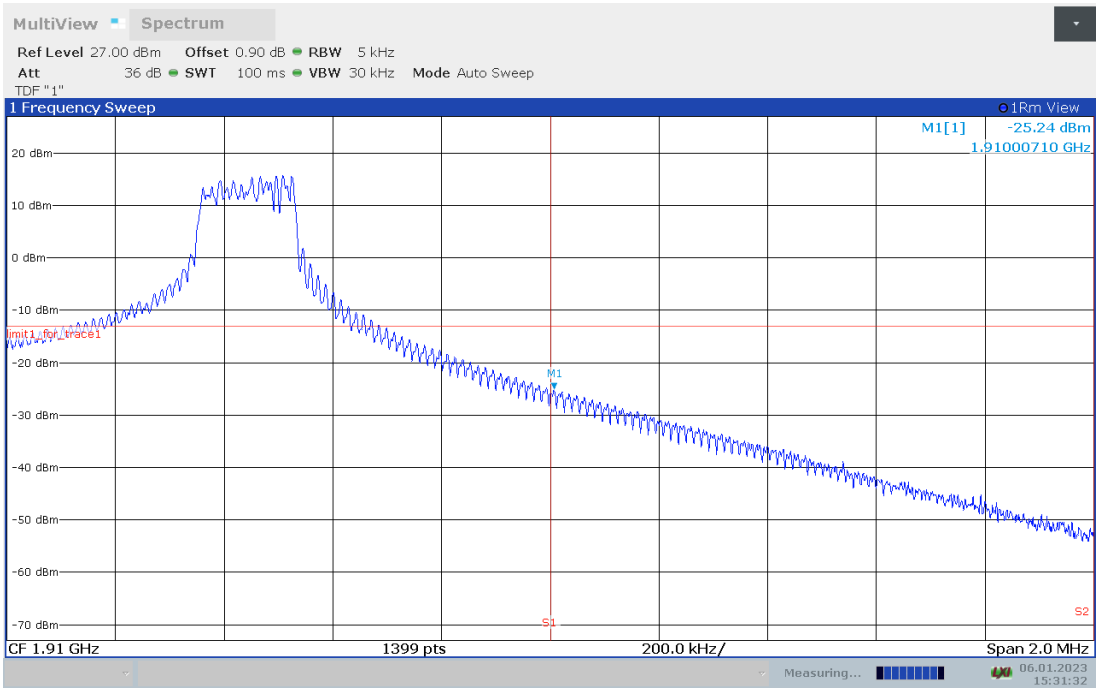
LOW BAND EDGE BLOCK-1RB-LOW_offset



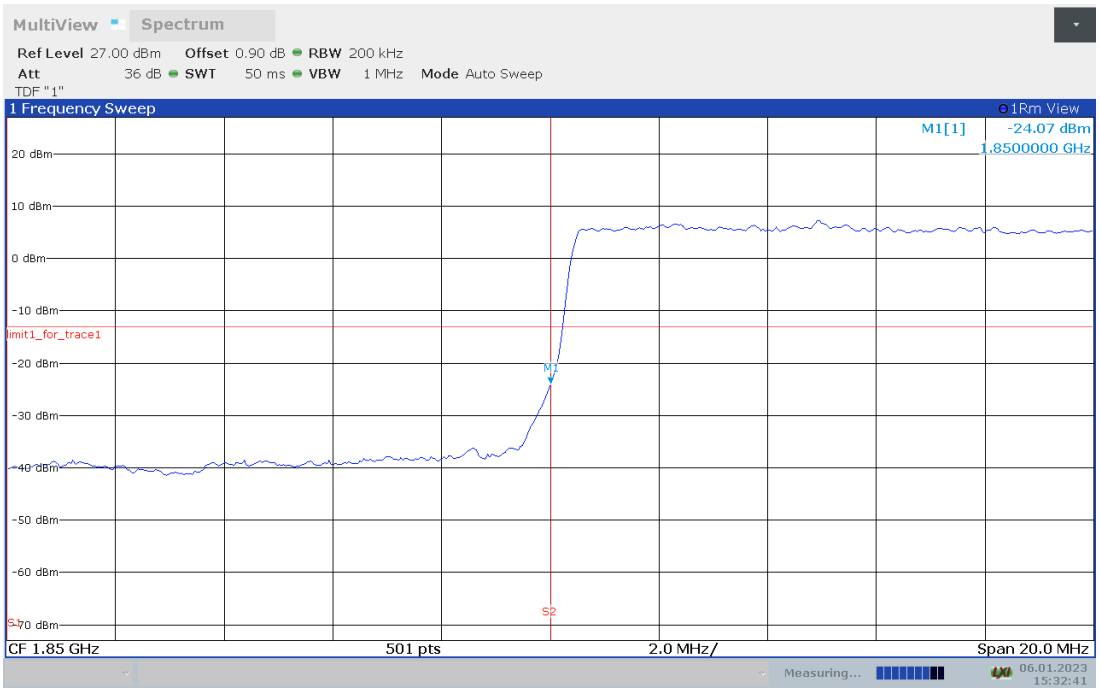
OBW: 1RB-HIGH_offset



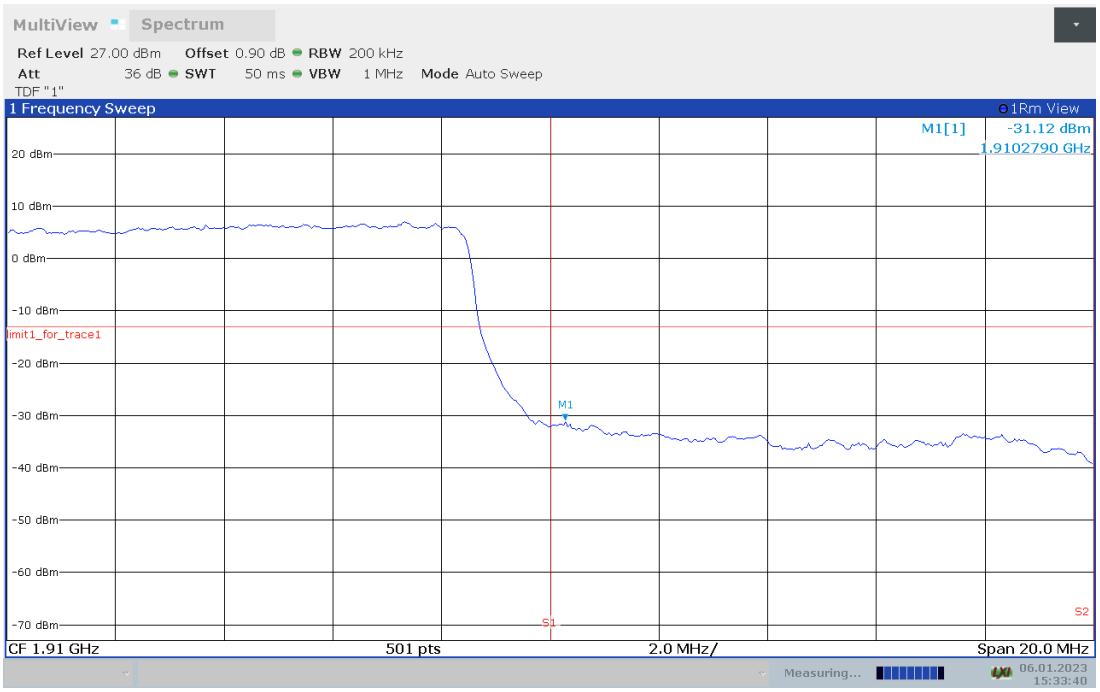
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20M-100%RB

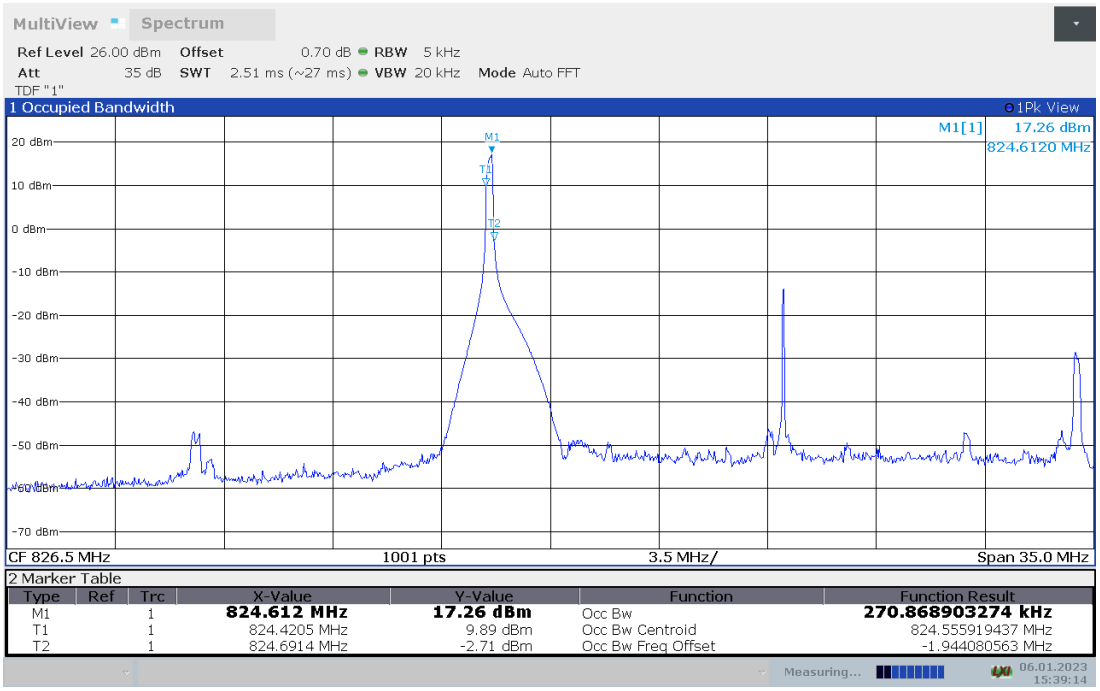


HIGH BAND EDGE BLOCK-20M-100%RB

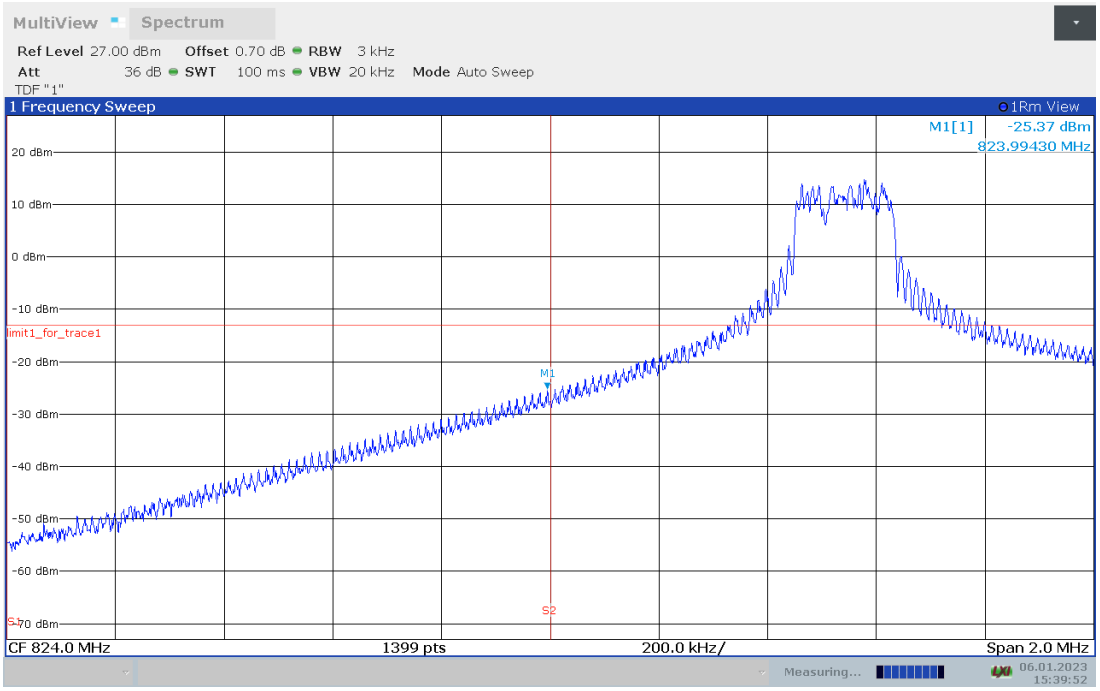


DC_66A_n5A

OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset



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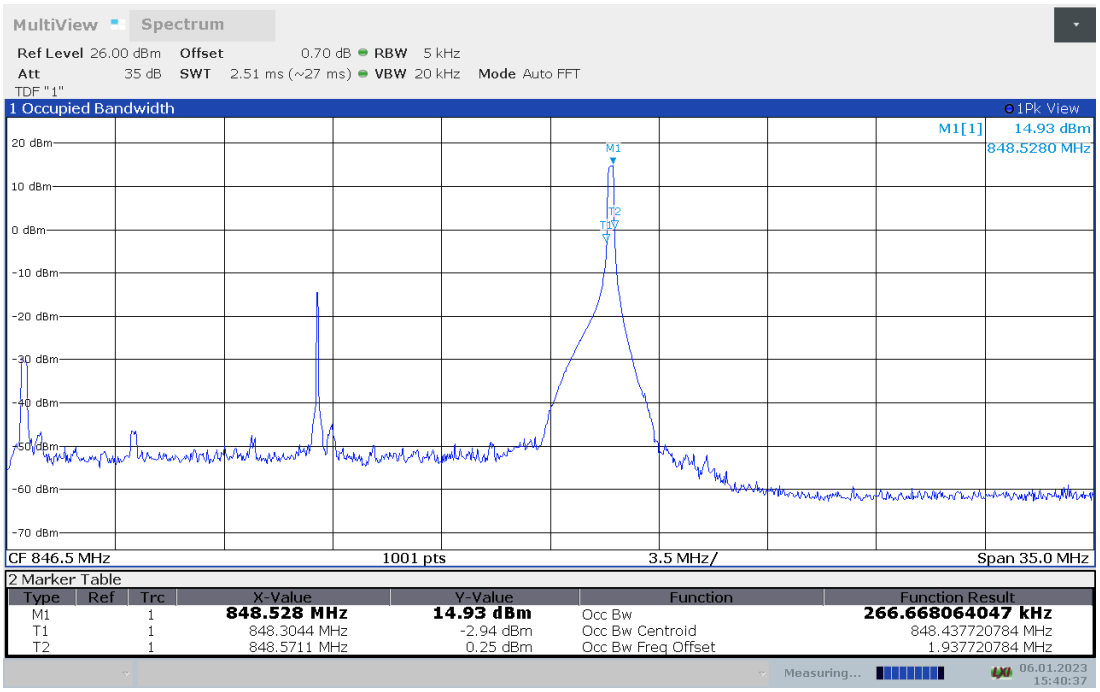
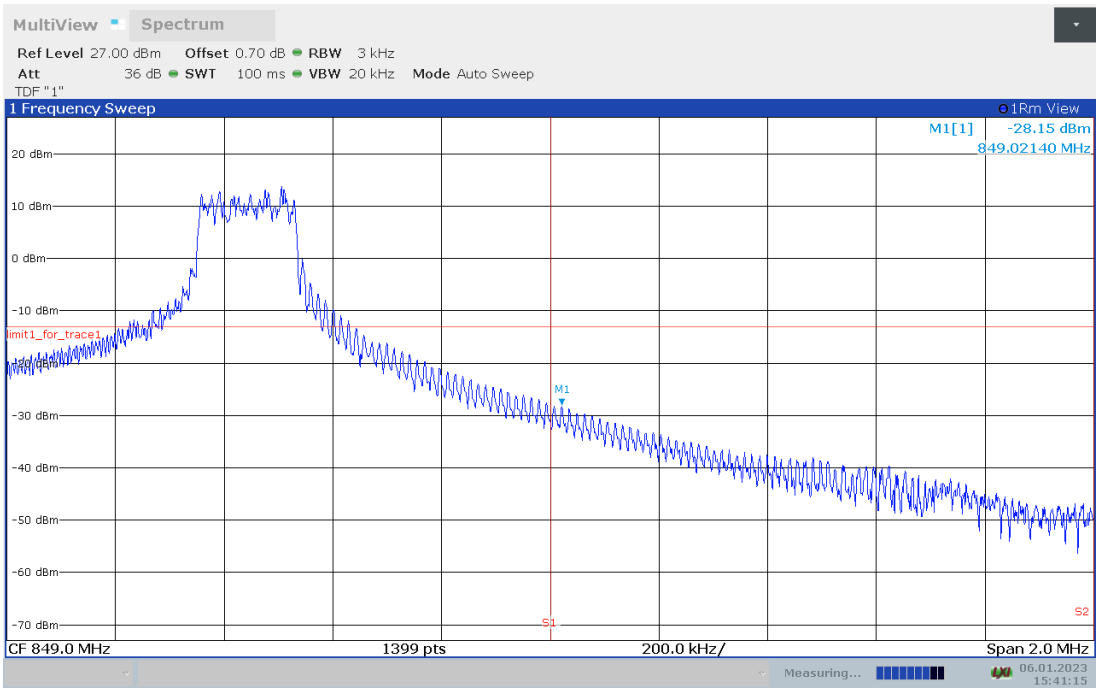
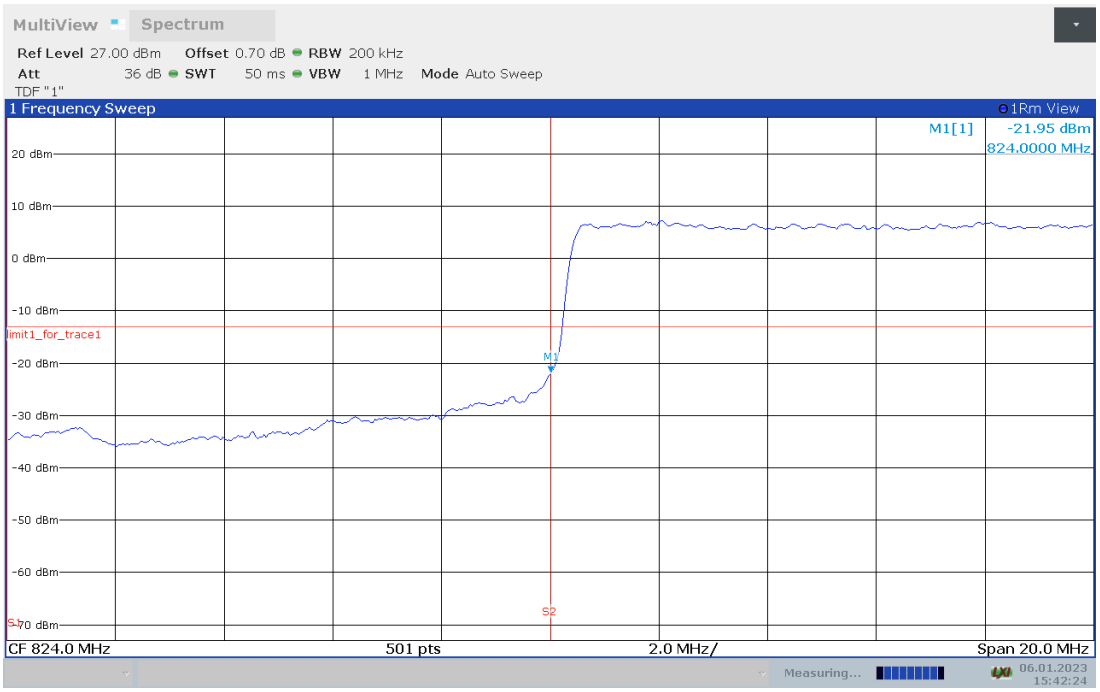


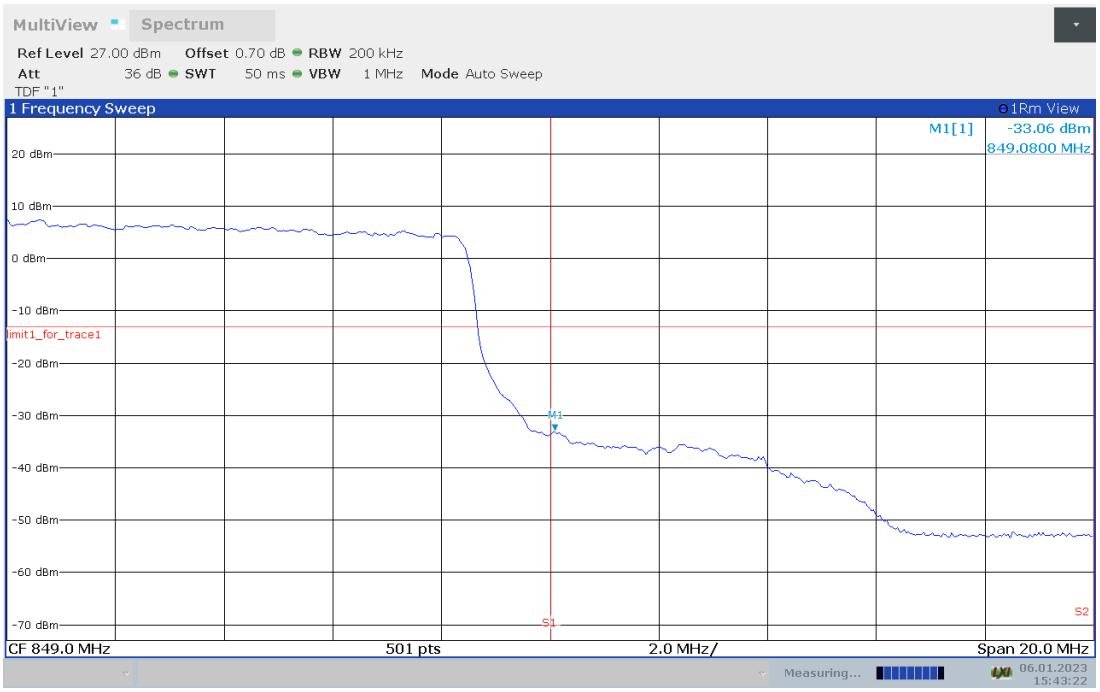
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20M-100%RB

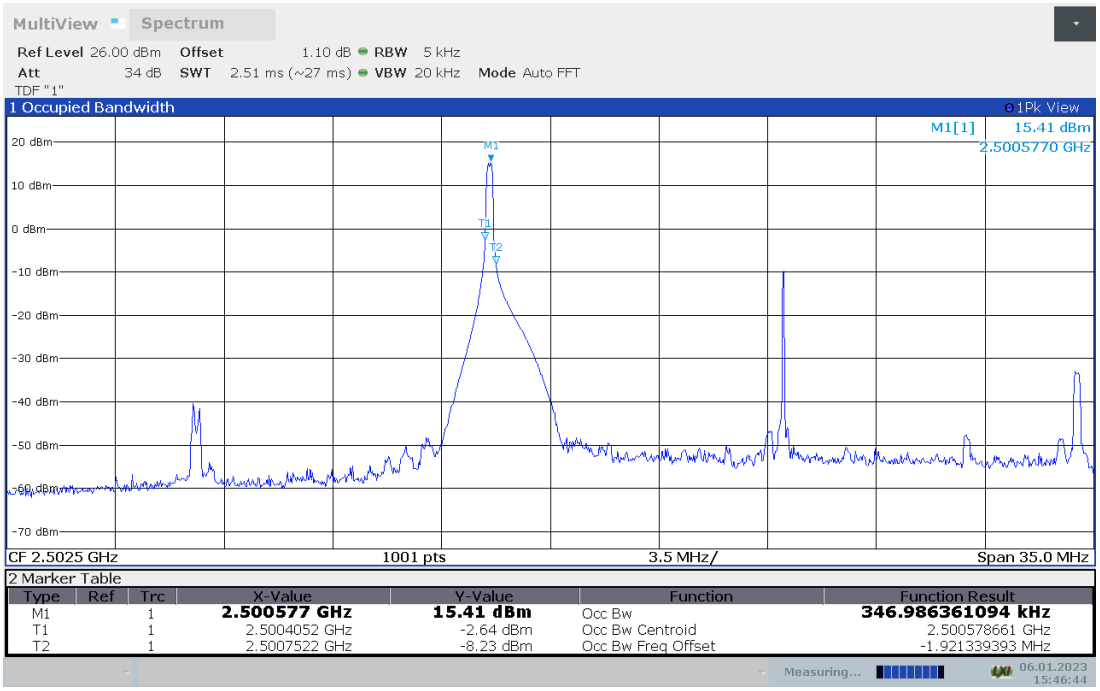


HIGH BAND EDGE BLOCK-20M-100%RB

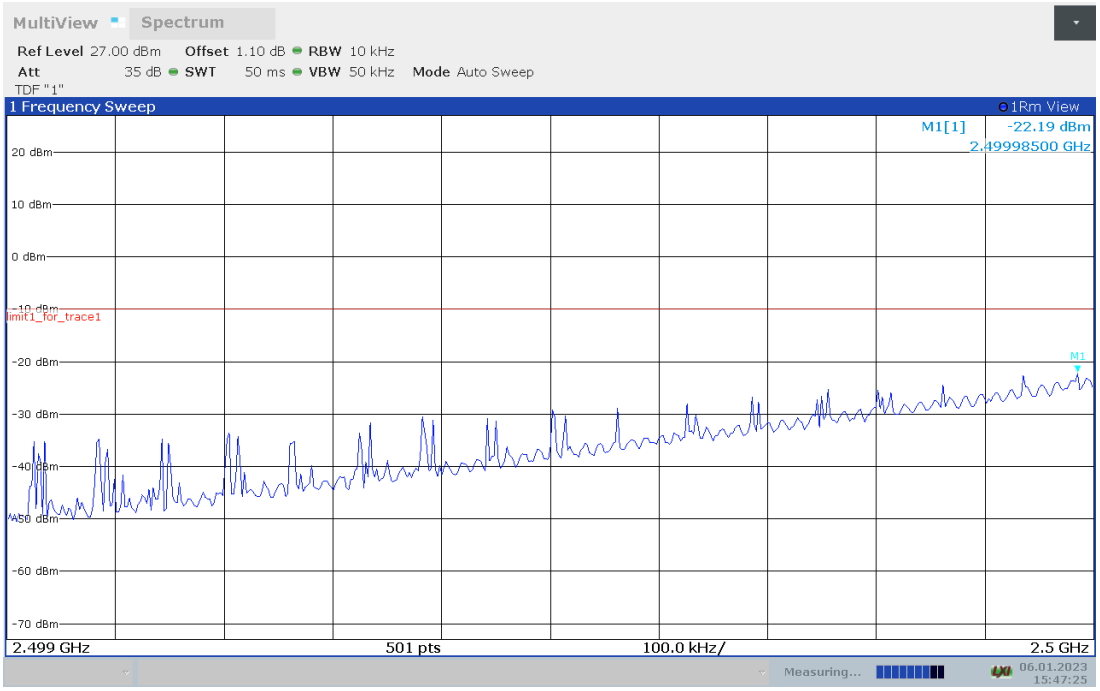


n7

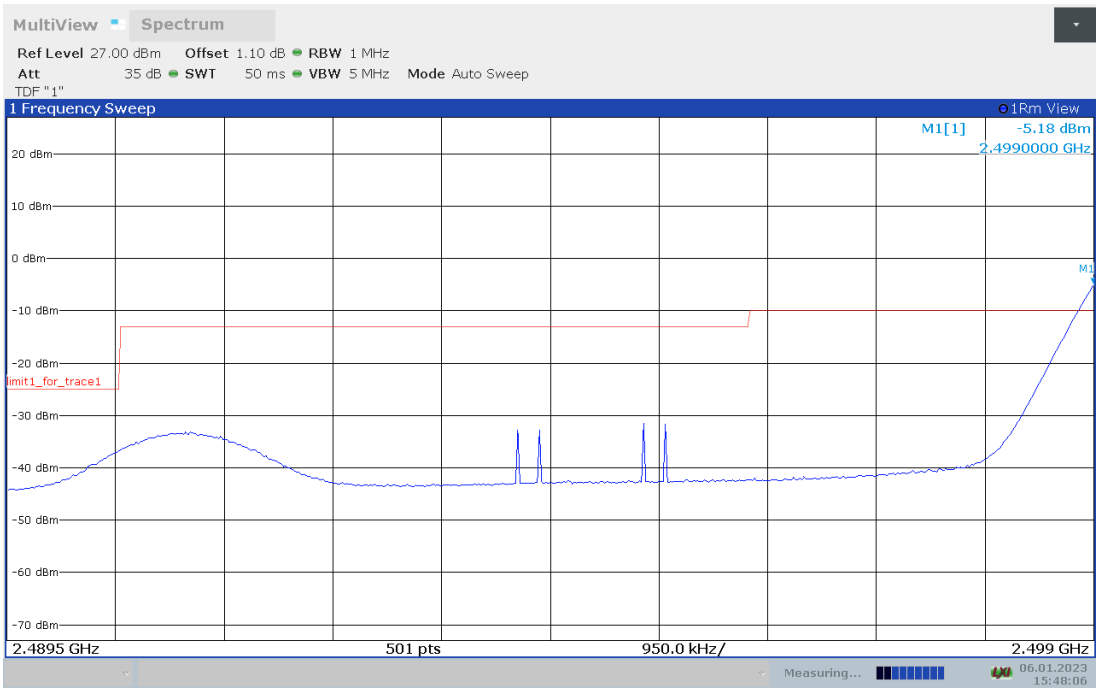
OBW: 1RB-LOW_offset



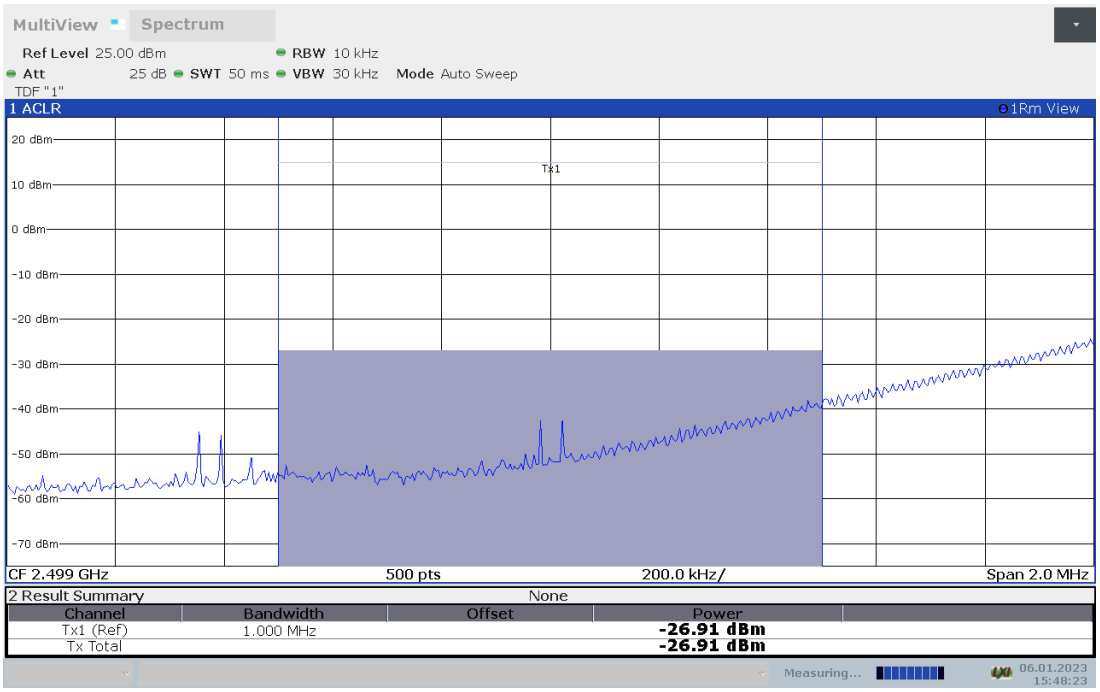
LOW BAND EDGE BLOCK-1RB-LOW_offset



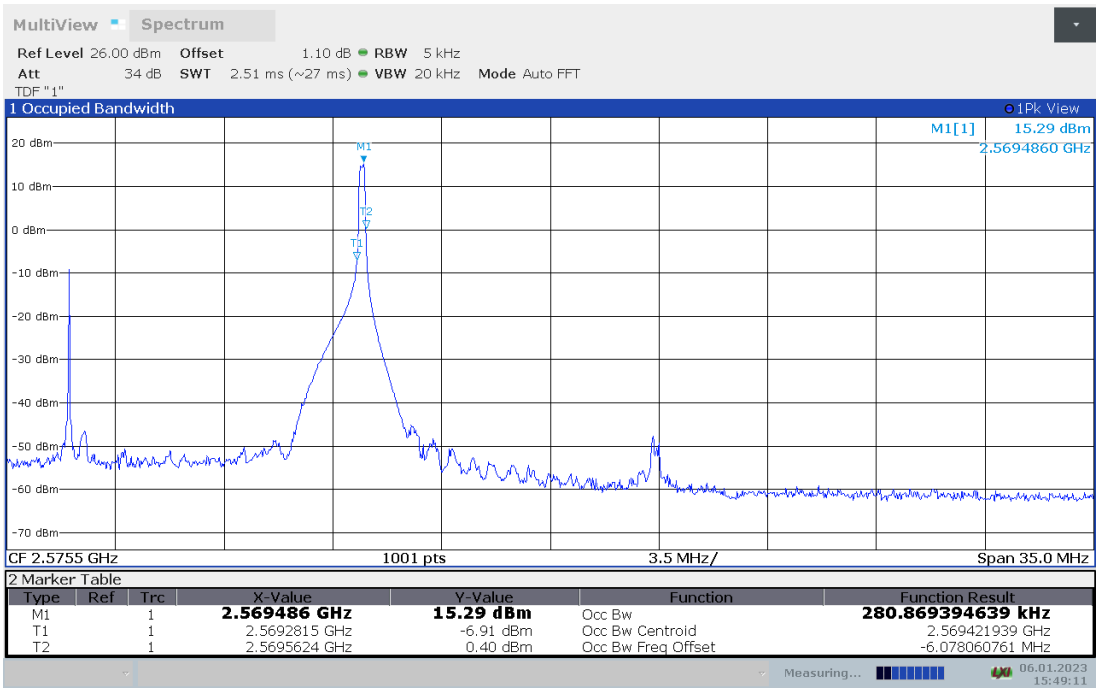
LOW BAND EDGE BLOCK-1RB-LOW_offset



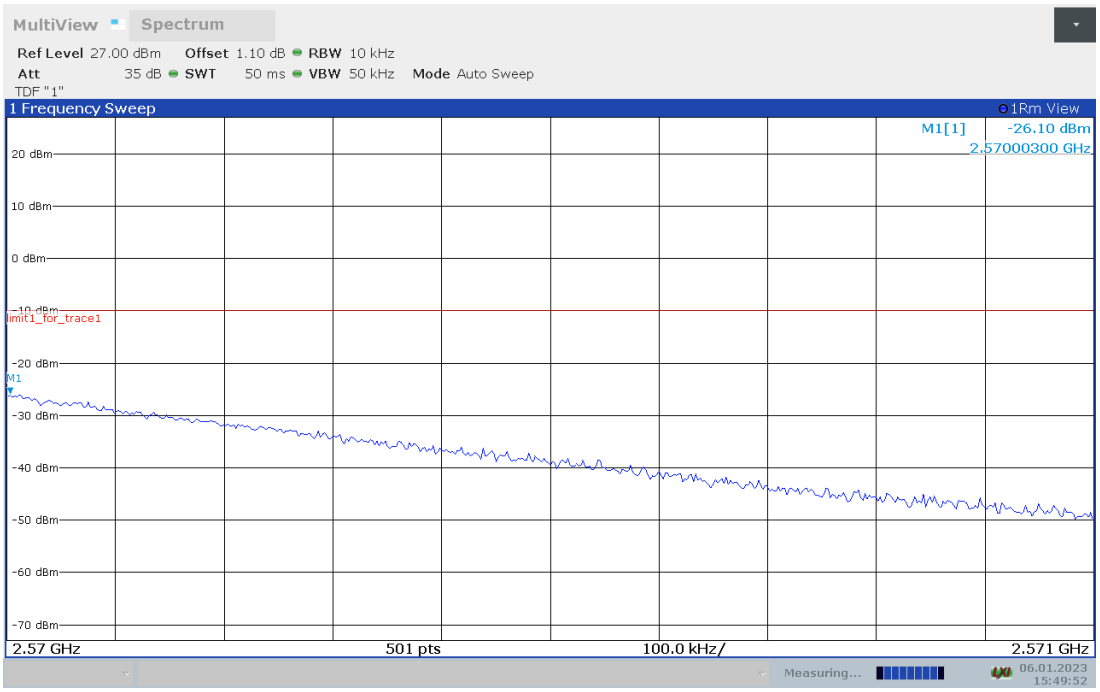
Channel power



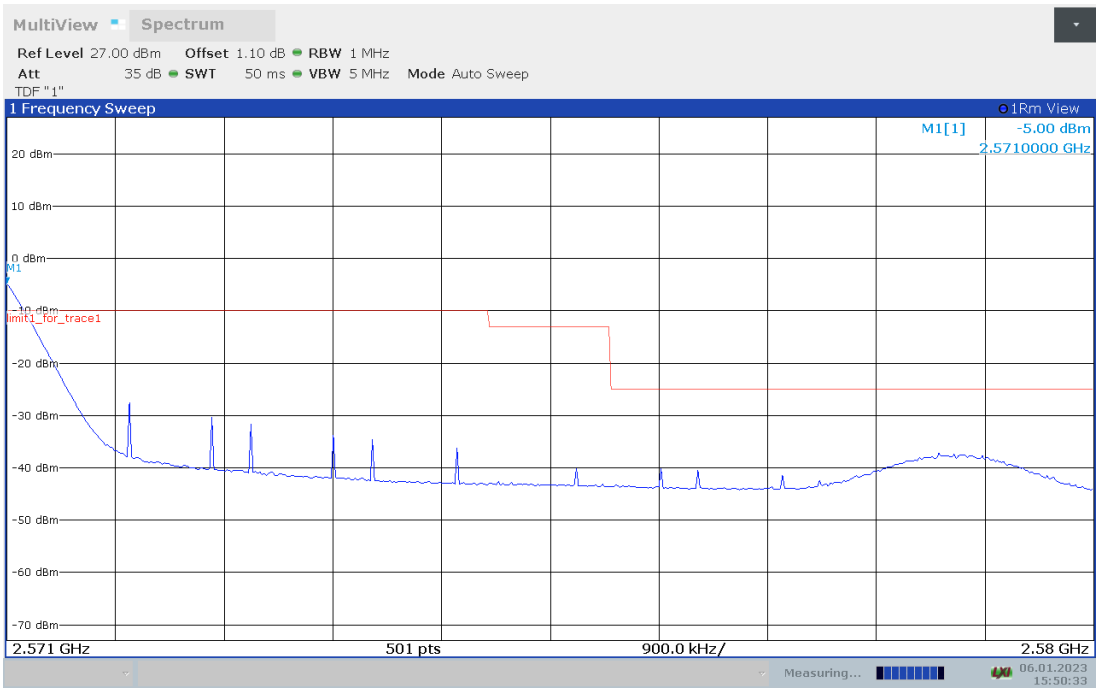
OBW: 1RB-HIGH_offset



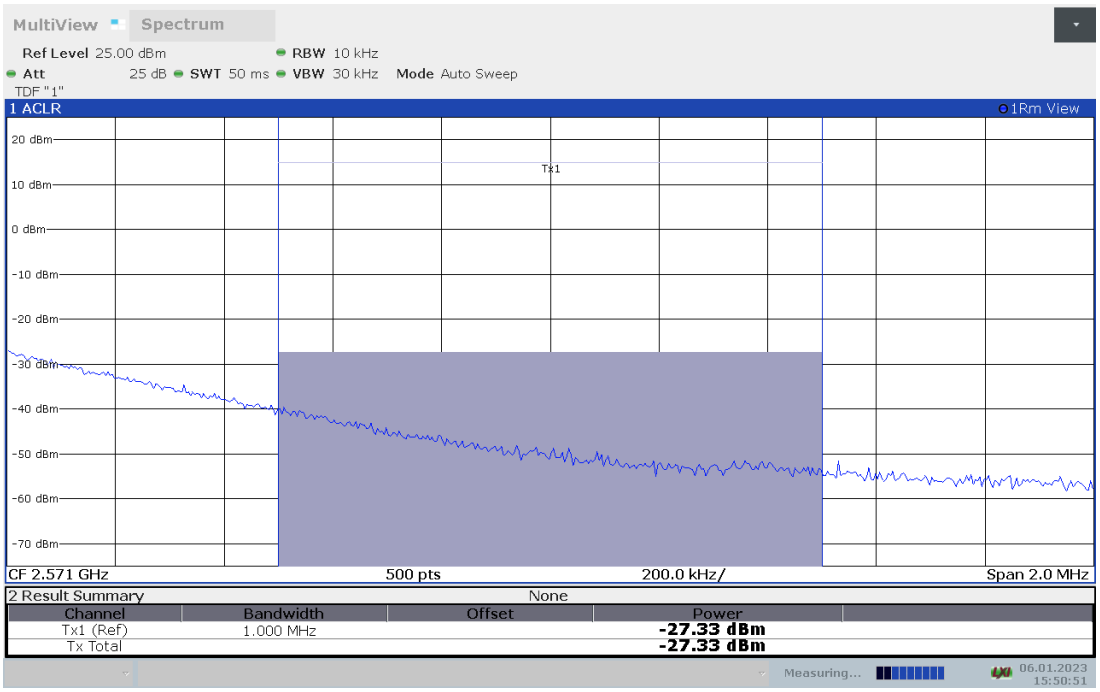
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



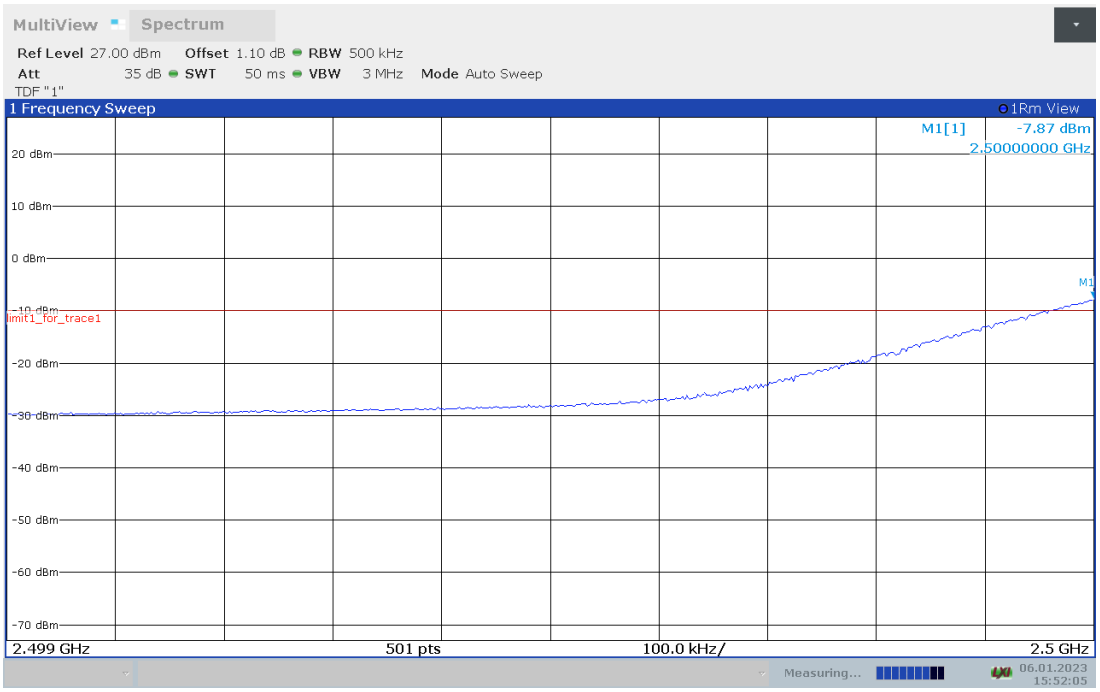
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



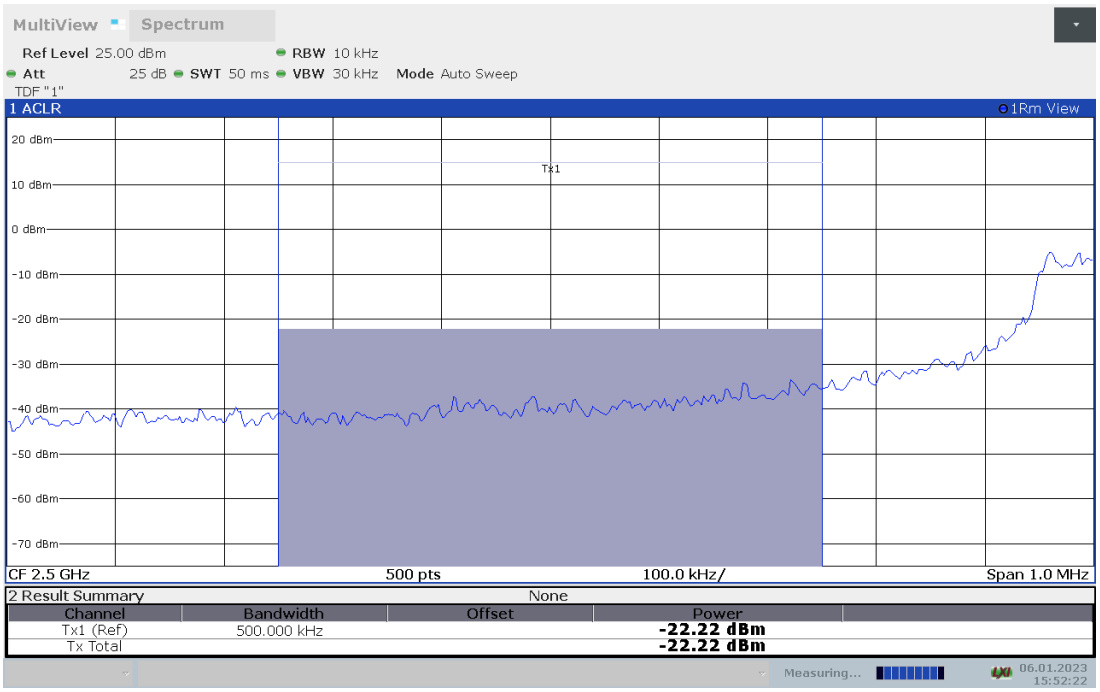
Channel power



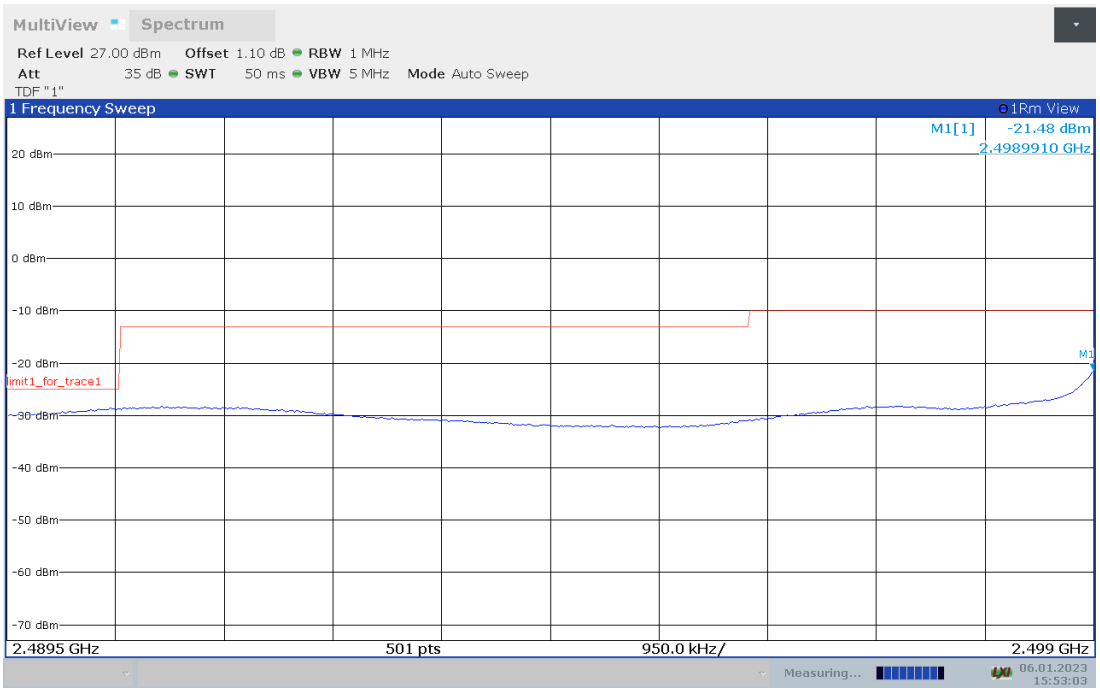
LOW BAND EDGE BLOCK-20M-100%RB



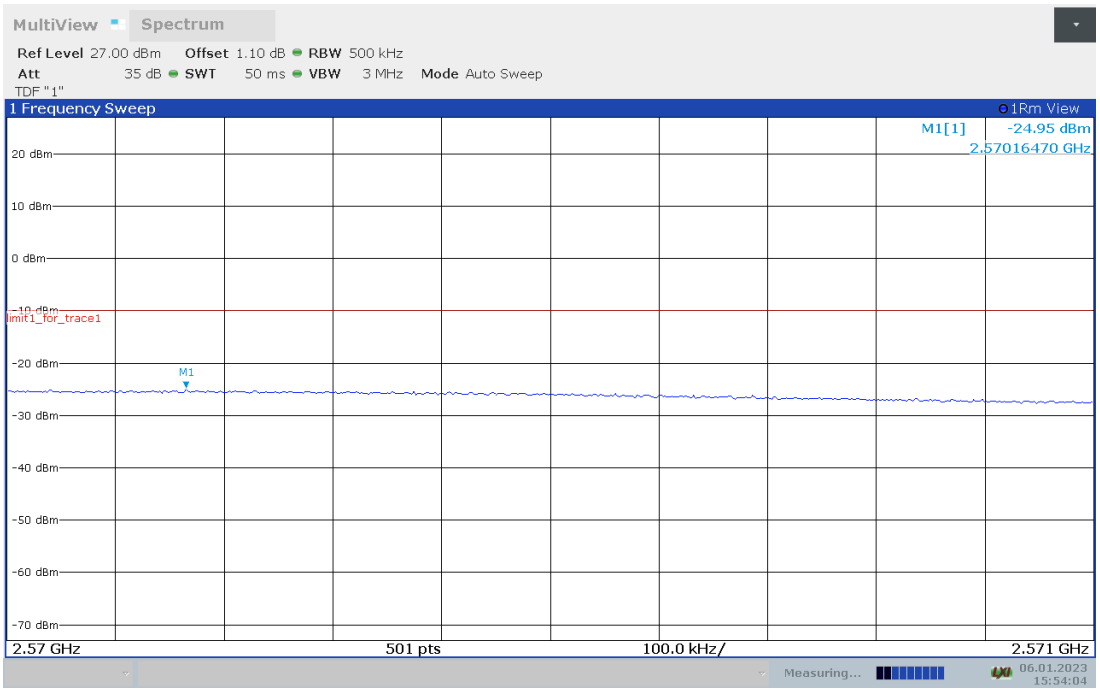
Channel power



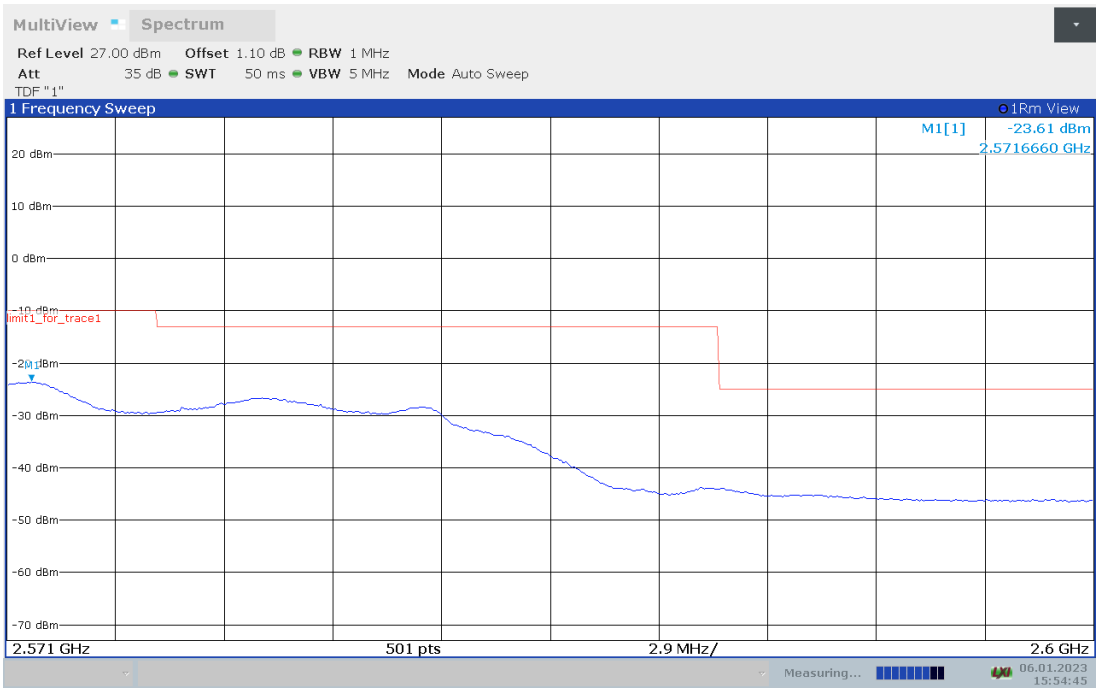
LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB

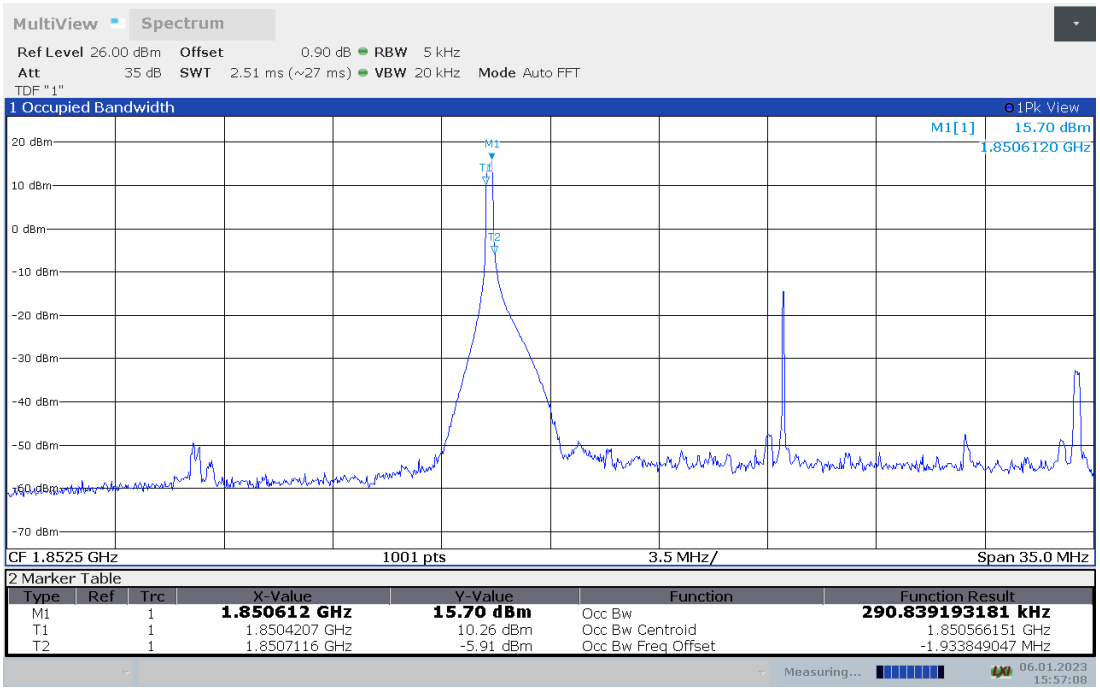


HIGH BAND EDGE BLOCK-20M-100%RB

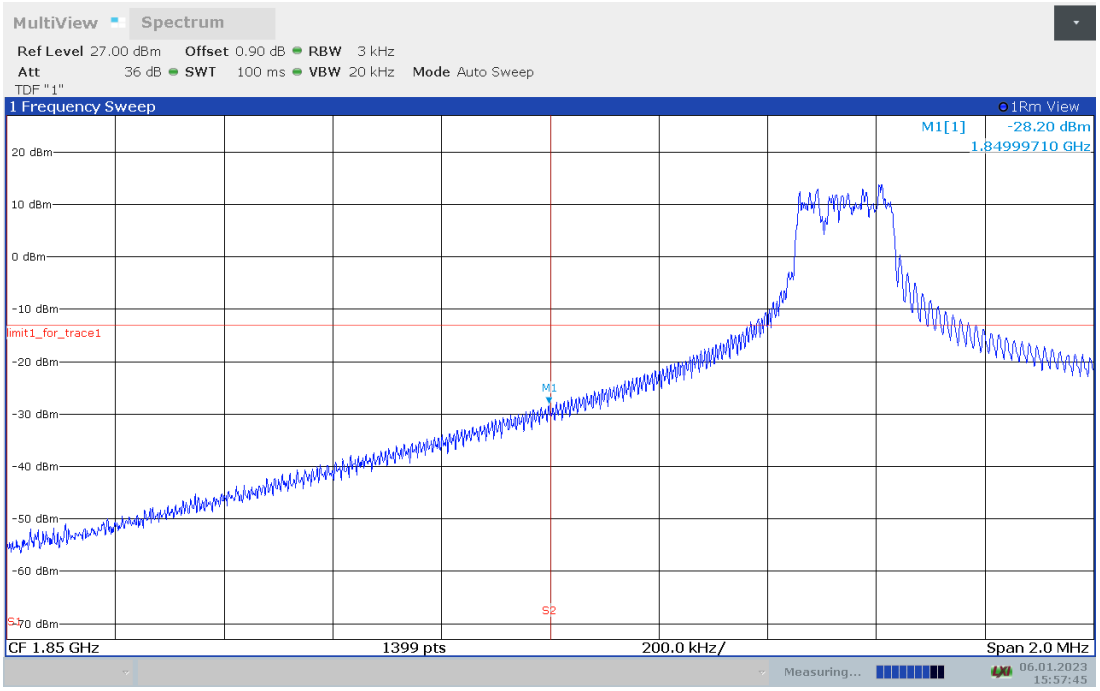


n25

OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset



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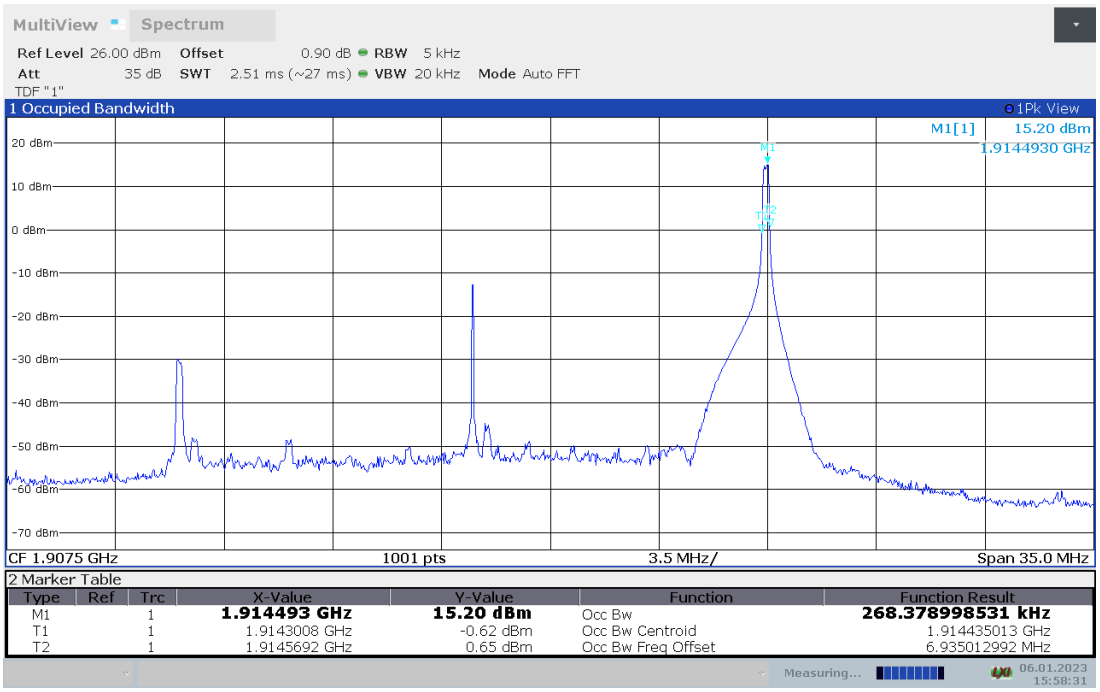
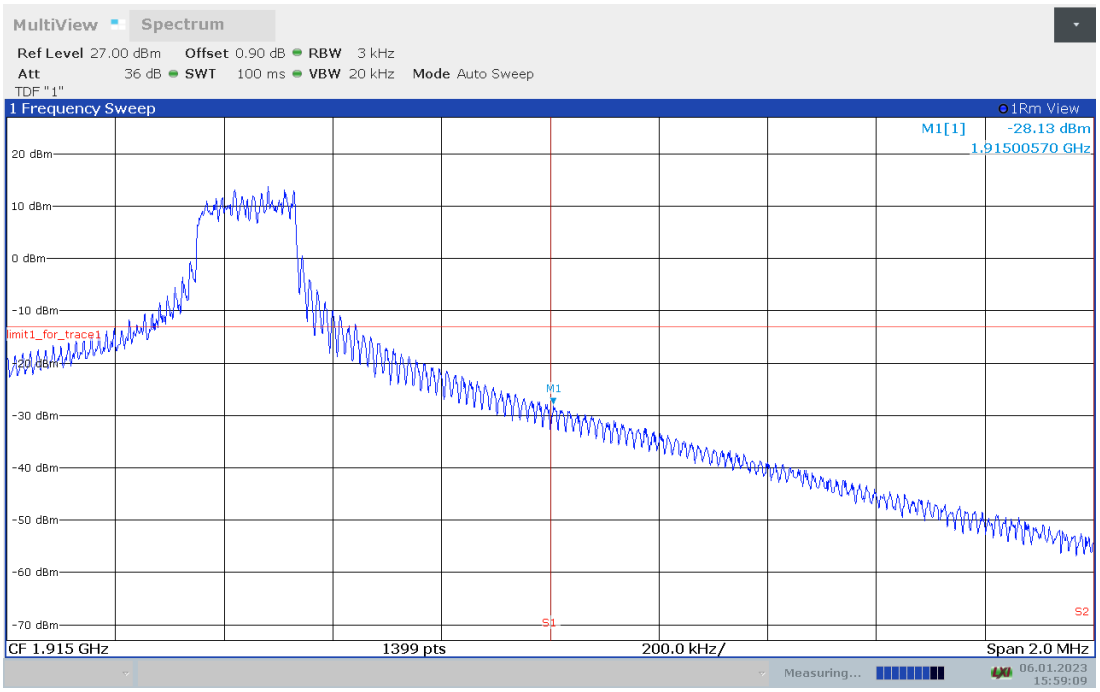
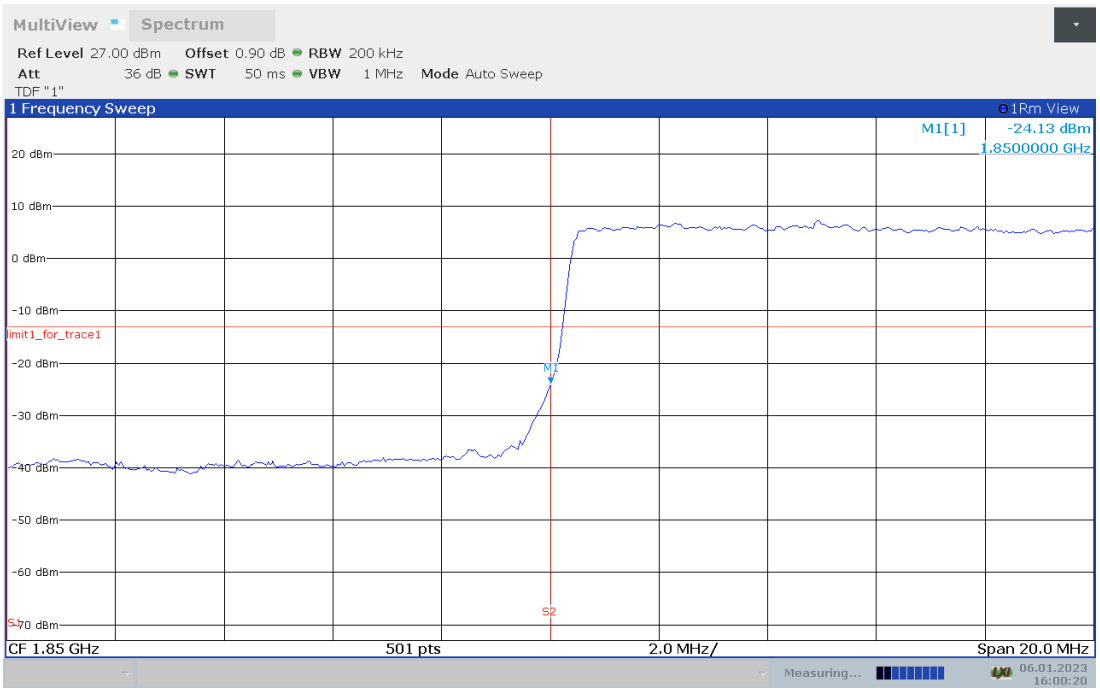


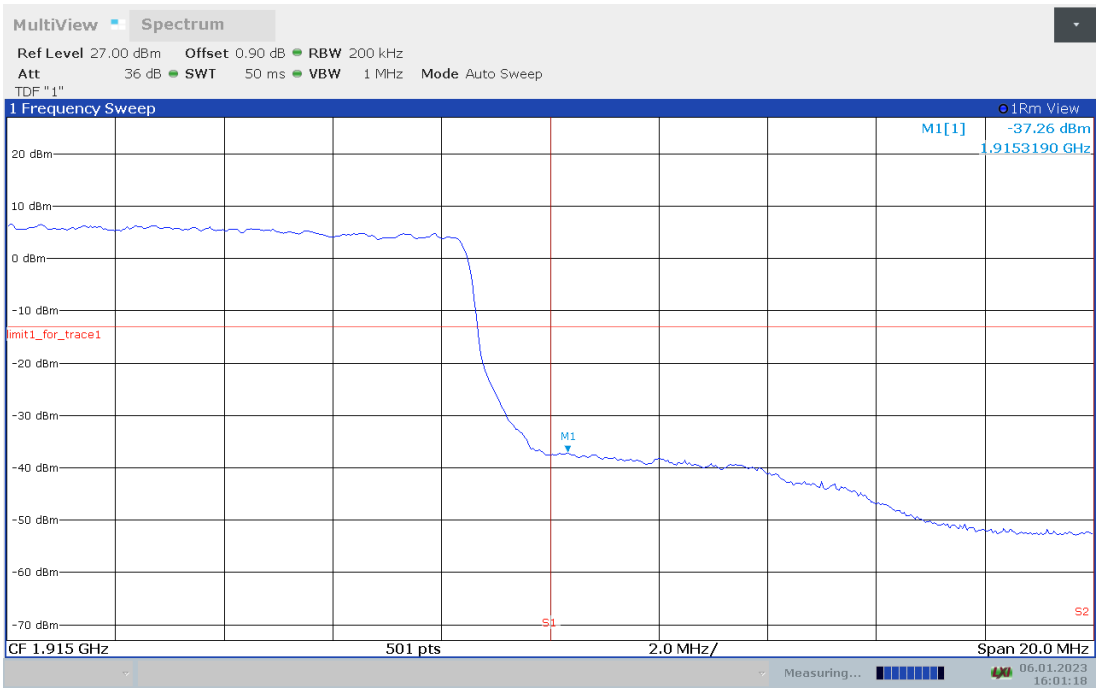
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB



n38

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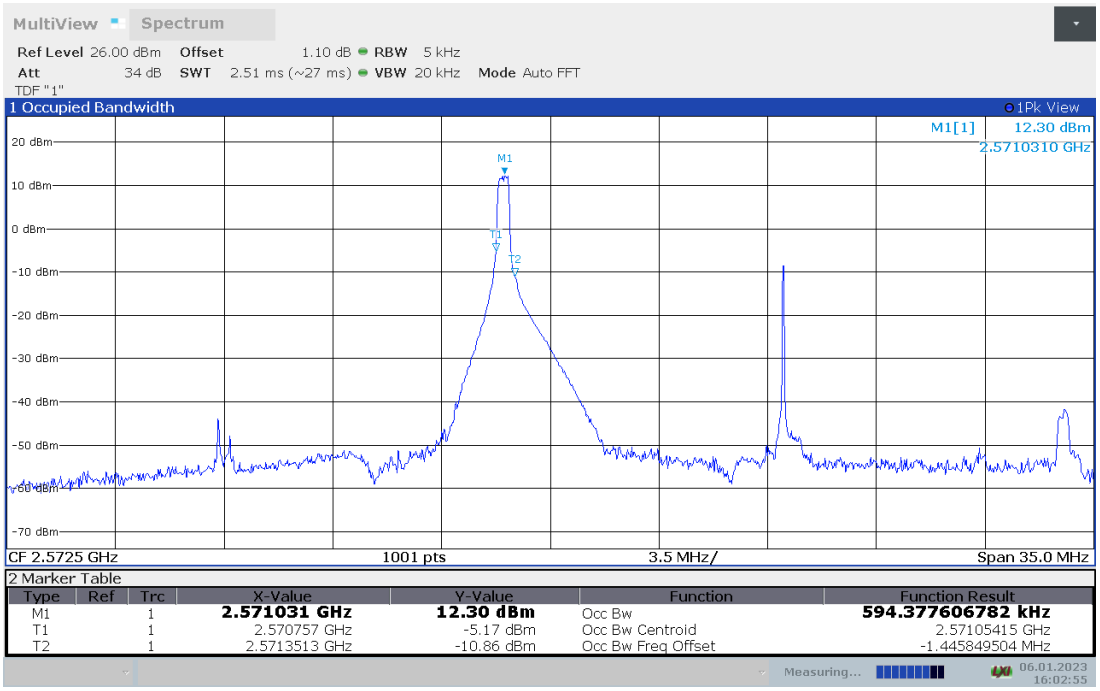

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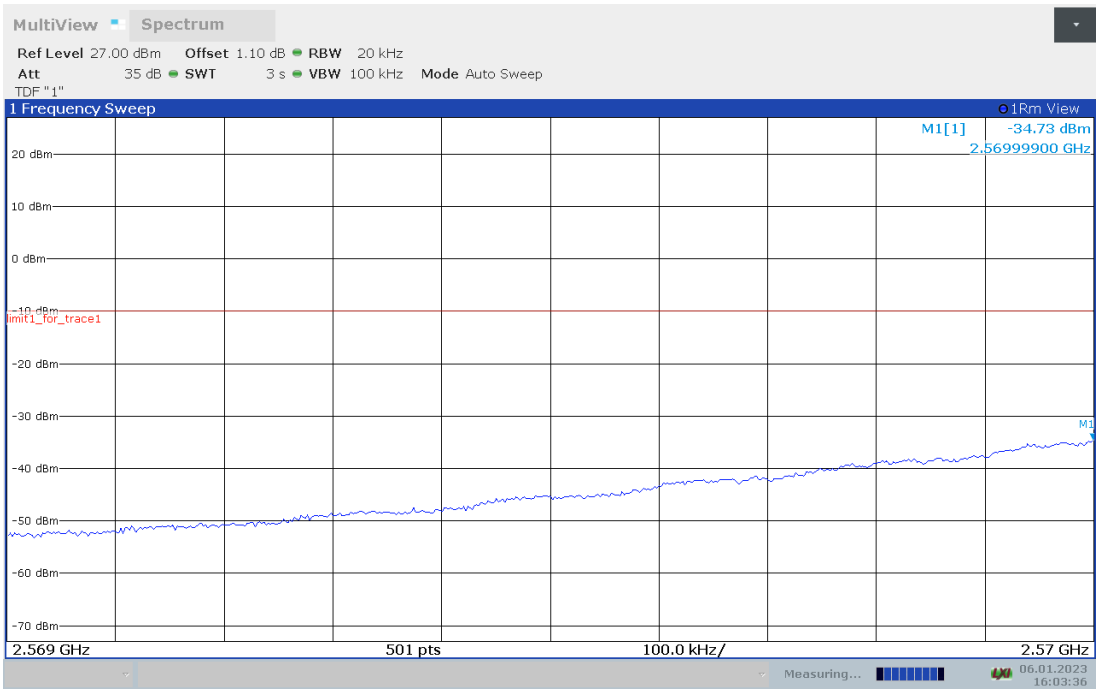
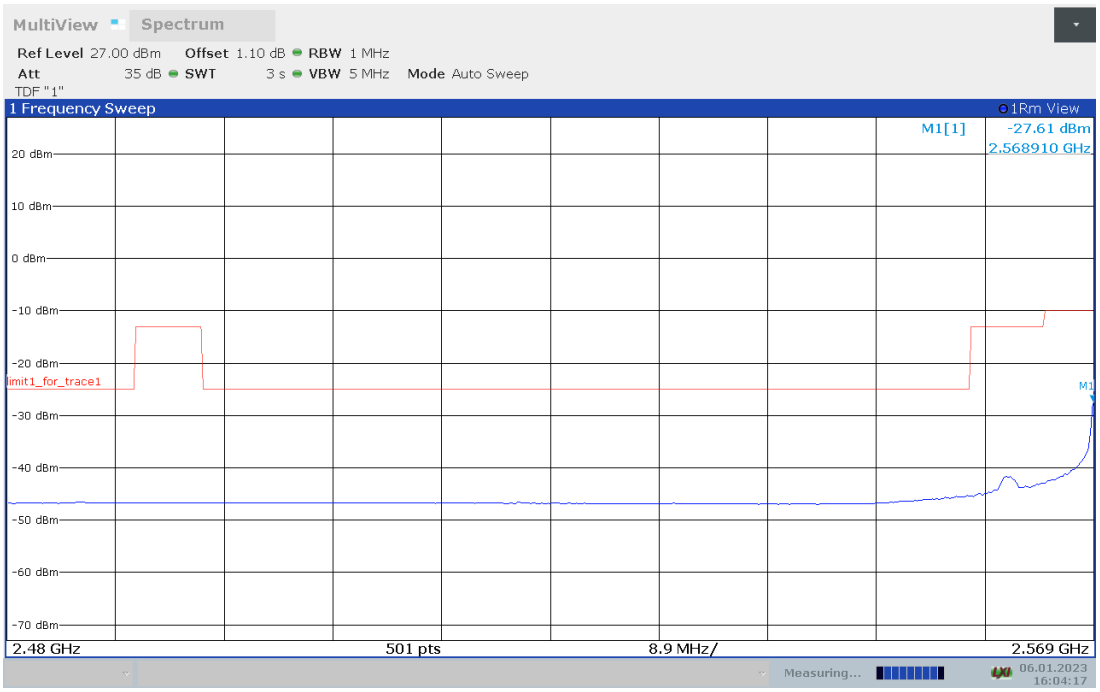
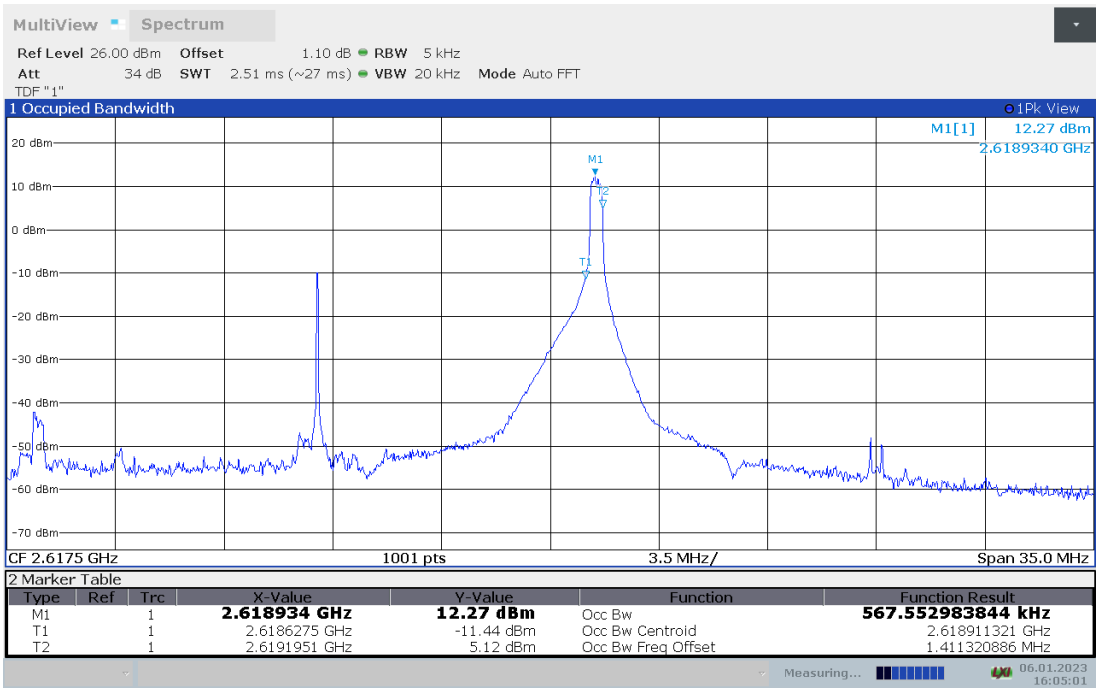


LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



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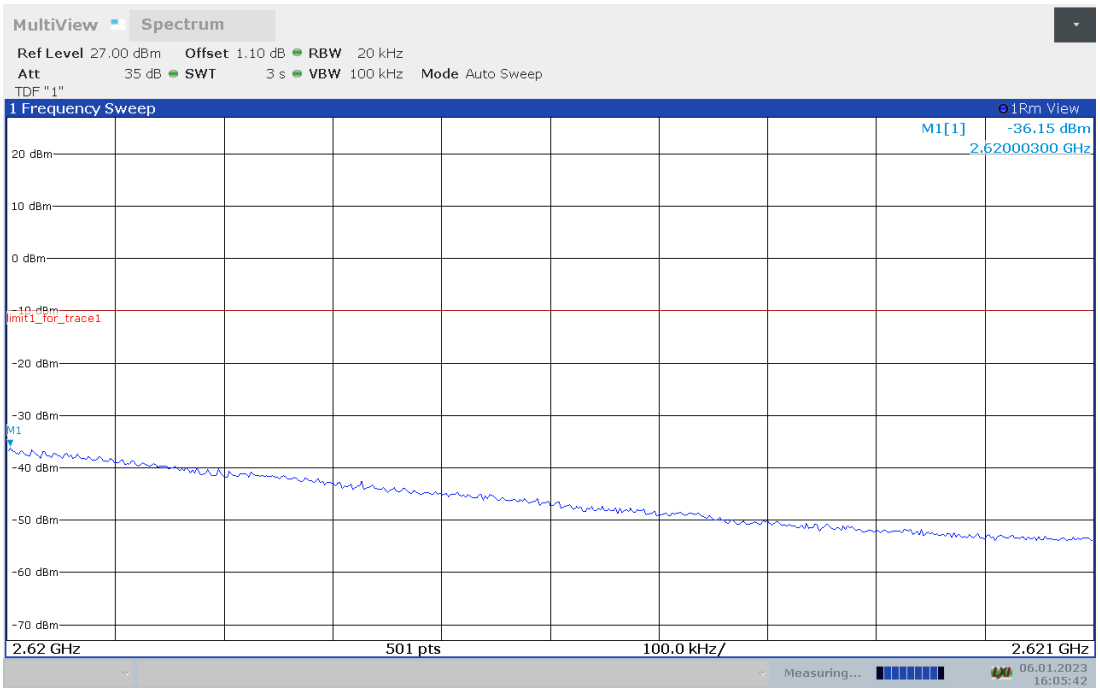

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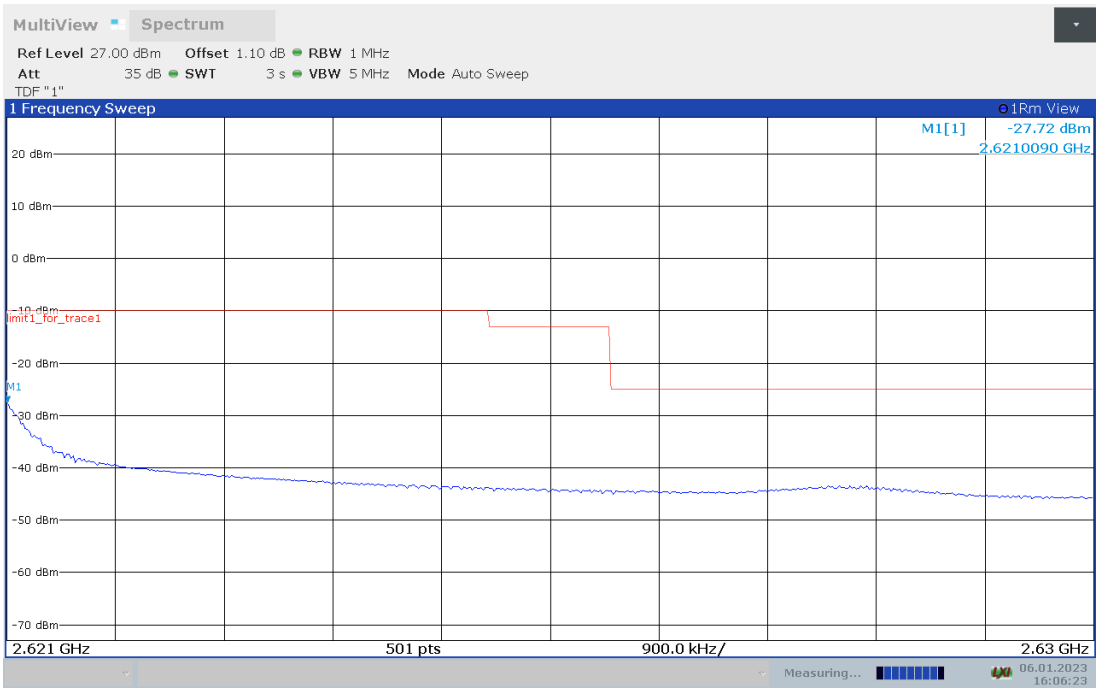
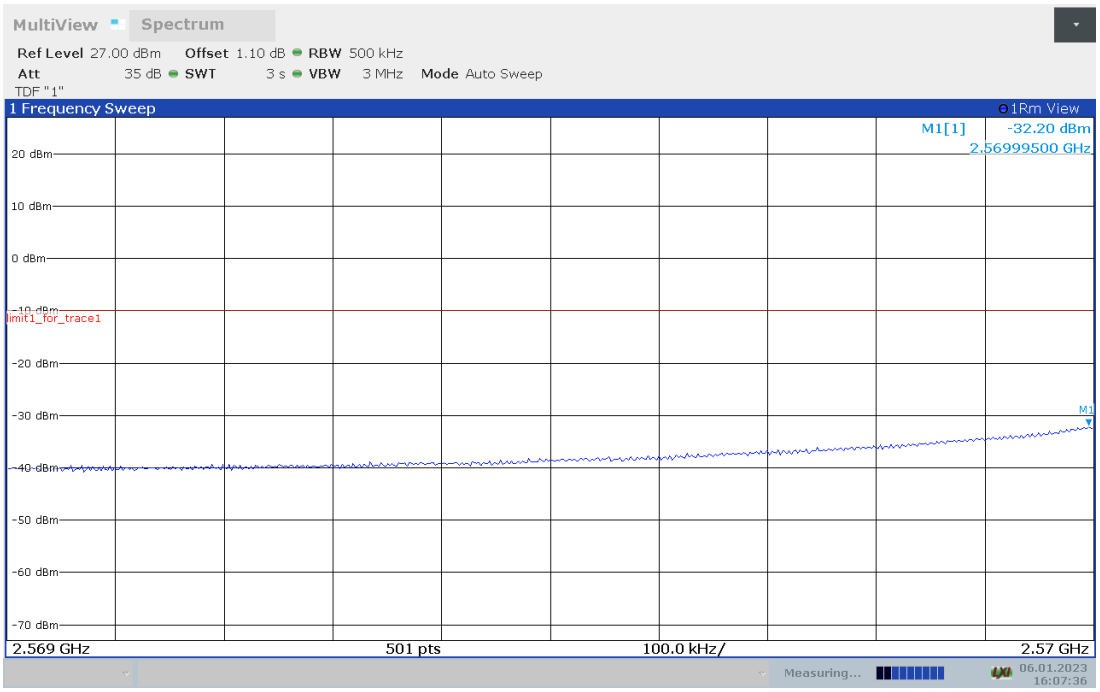
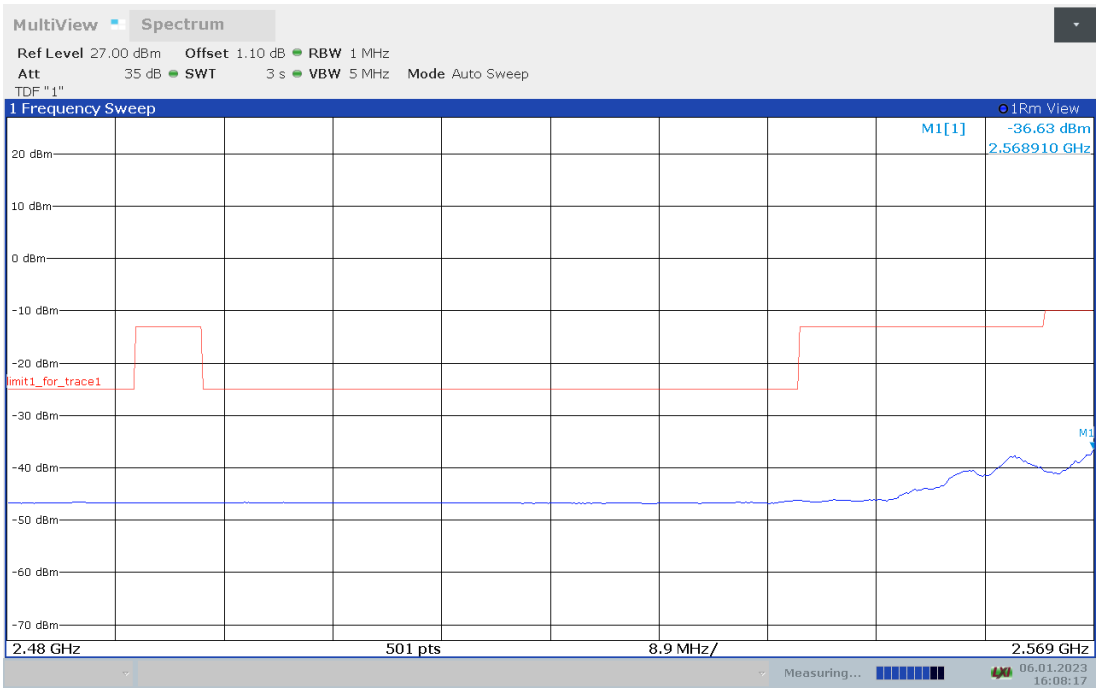


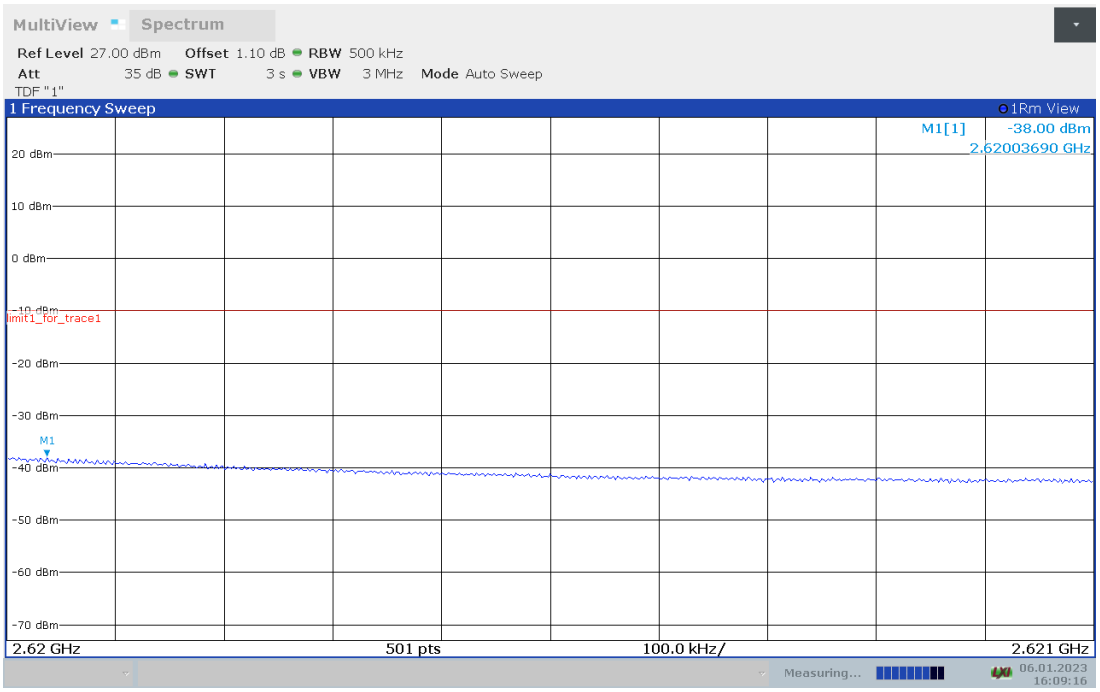
LOW BAND EDGE BLOCK-20M-100%RB



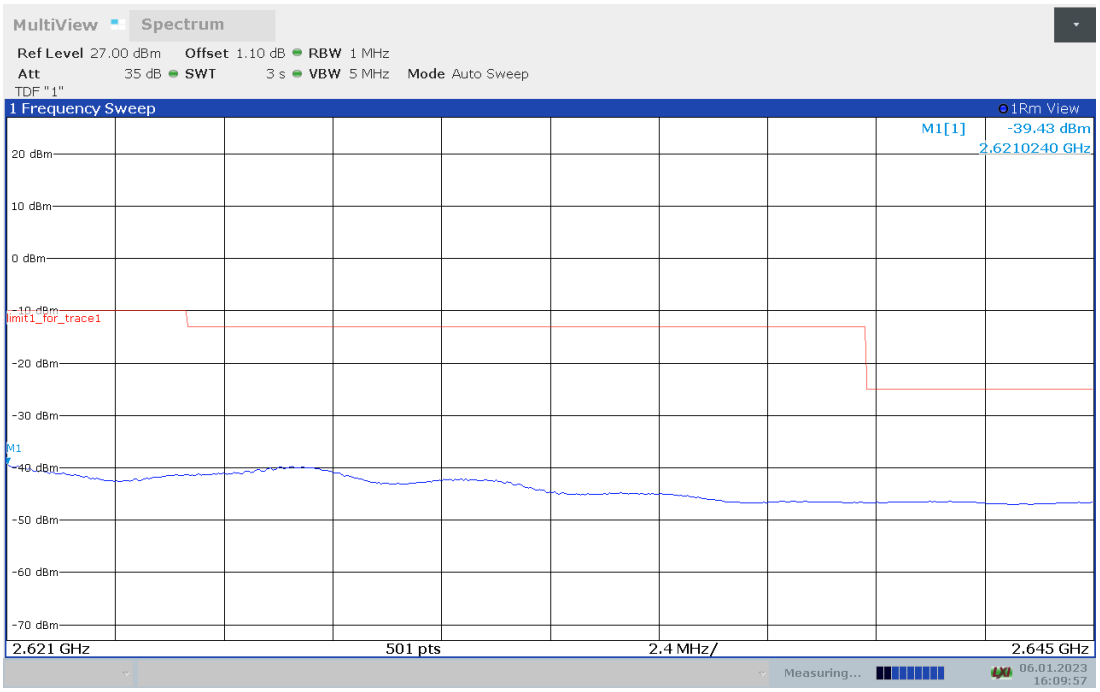
LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB

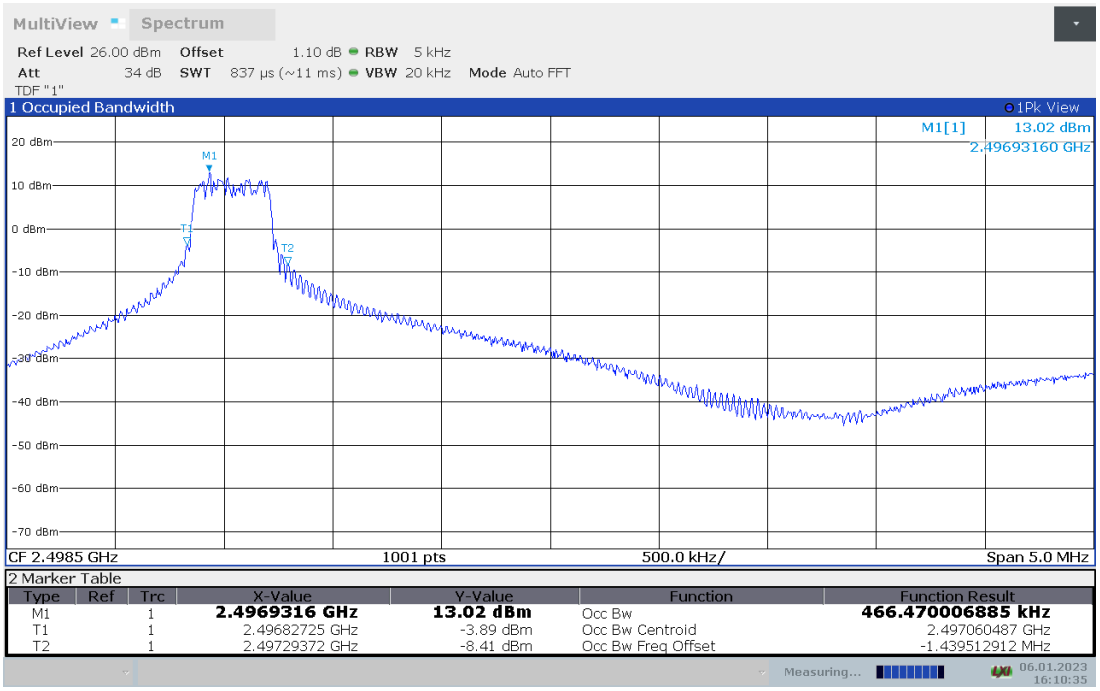


HIGH BAND EDGE BLOCK-20M-100%RB



DC_66A_n41A

OBW: 1RB-LOW_offset



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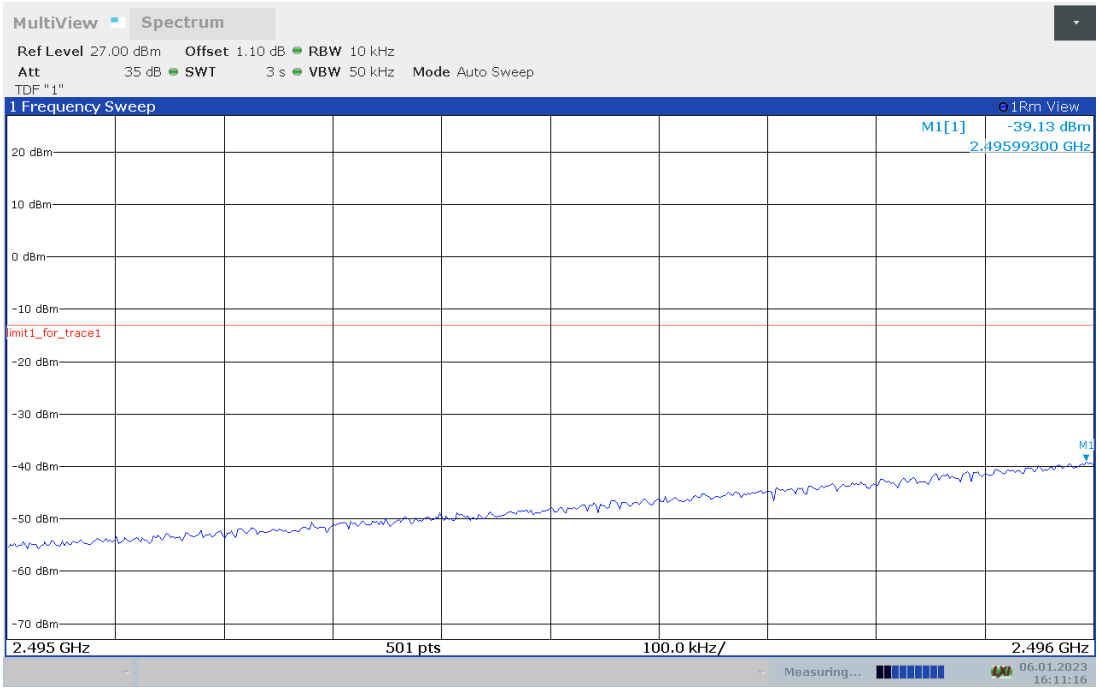
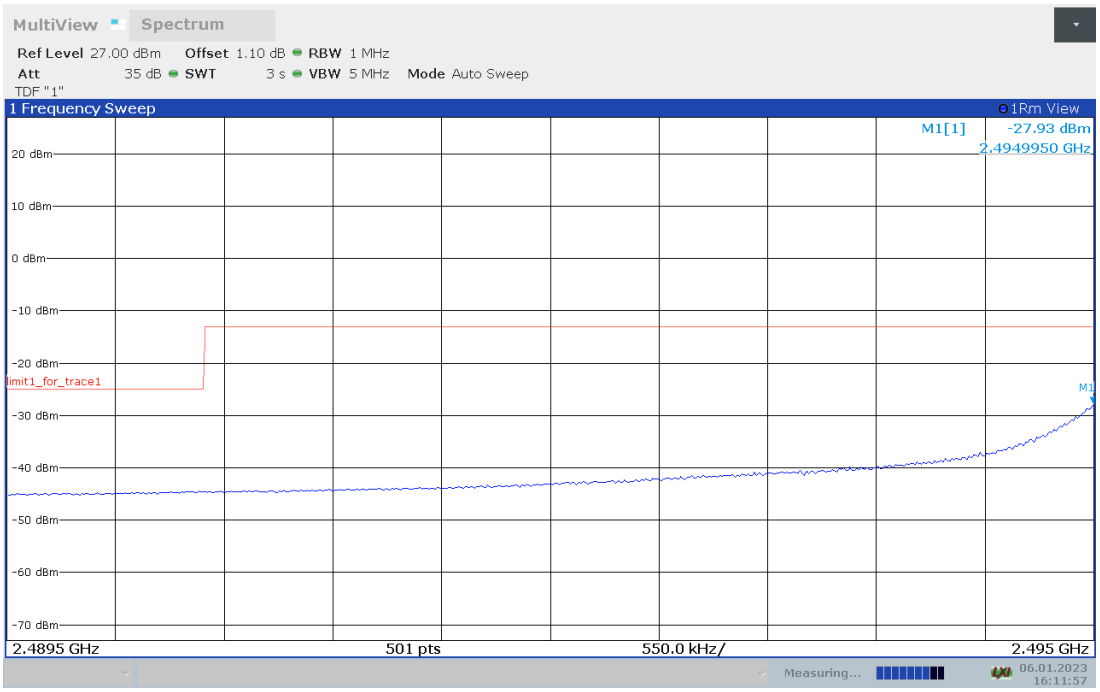


LOW BAND EDGE BLOCK-1RB-LOW_offset



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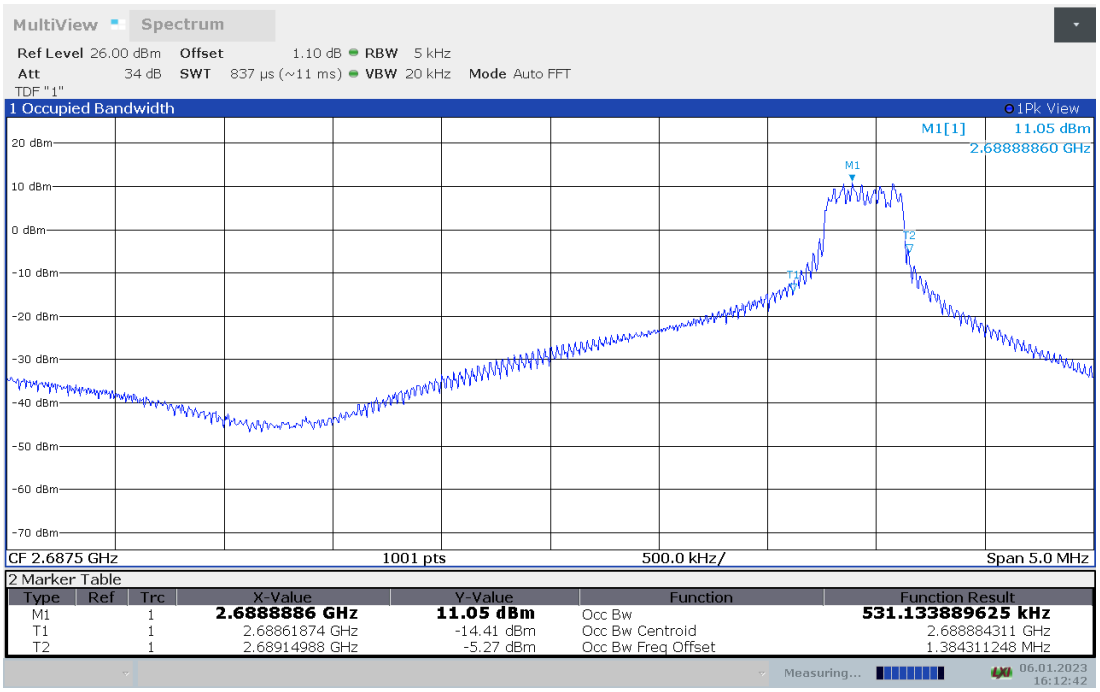

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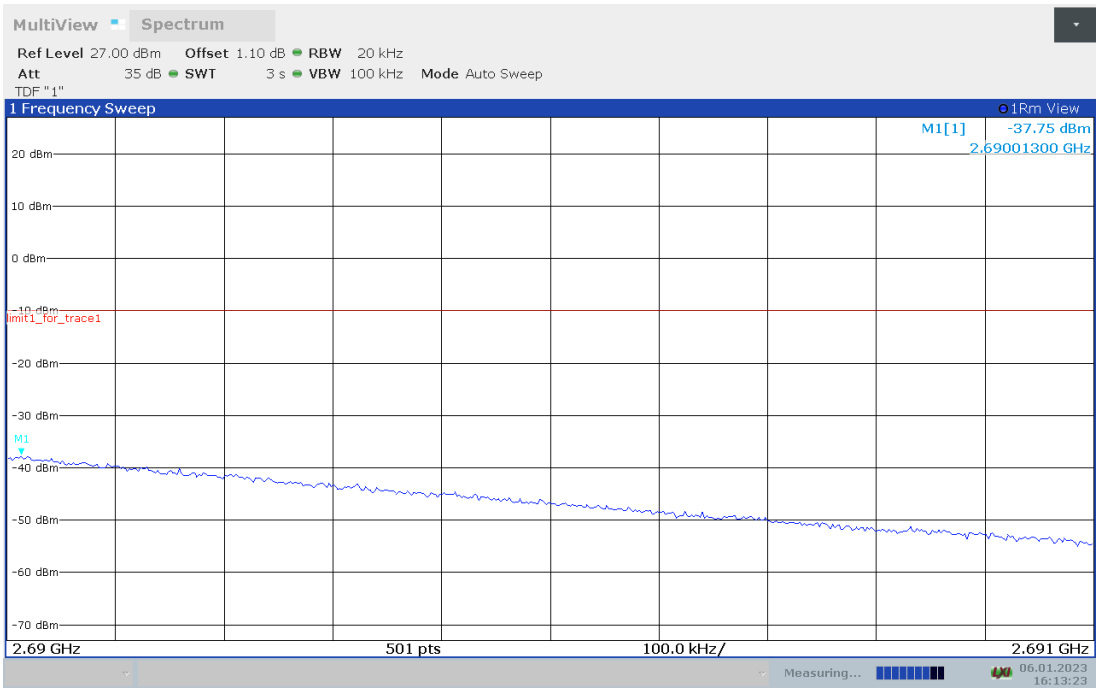
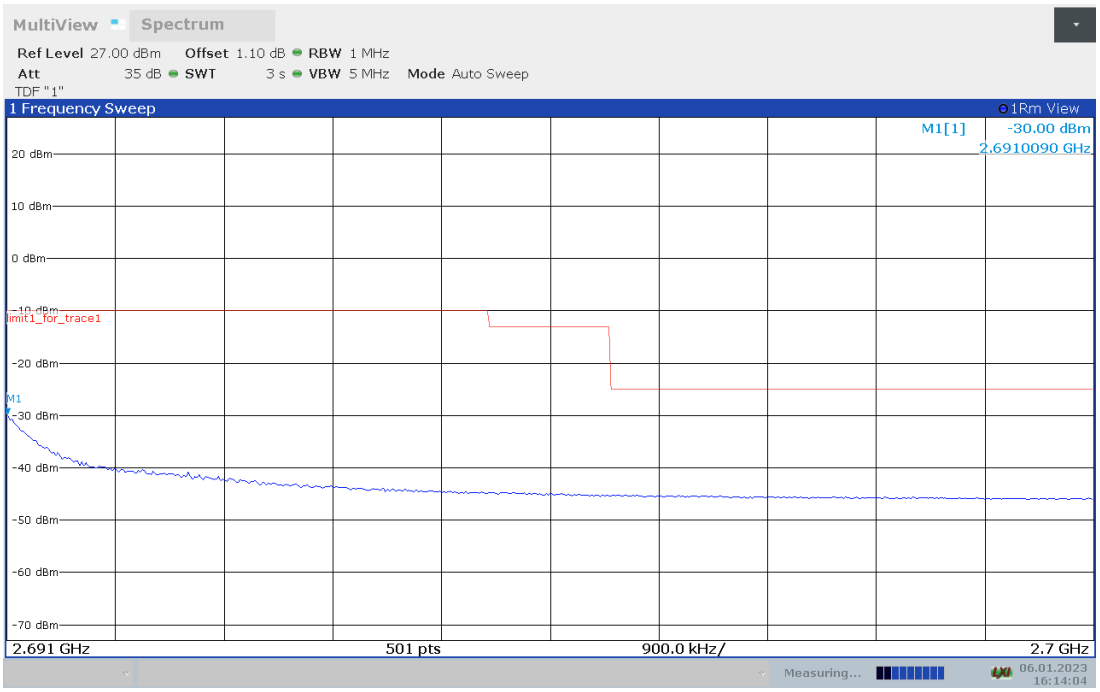
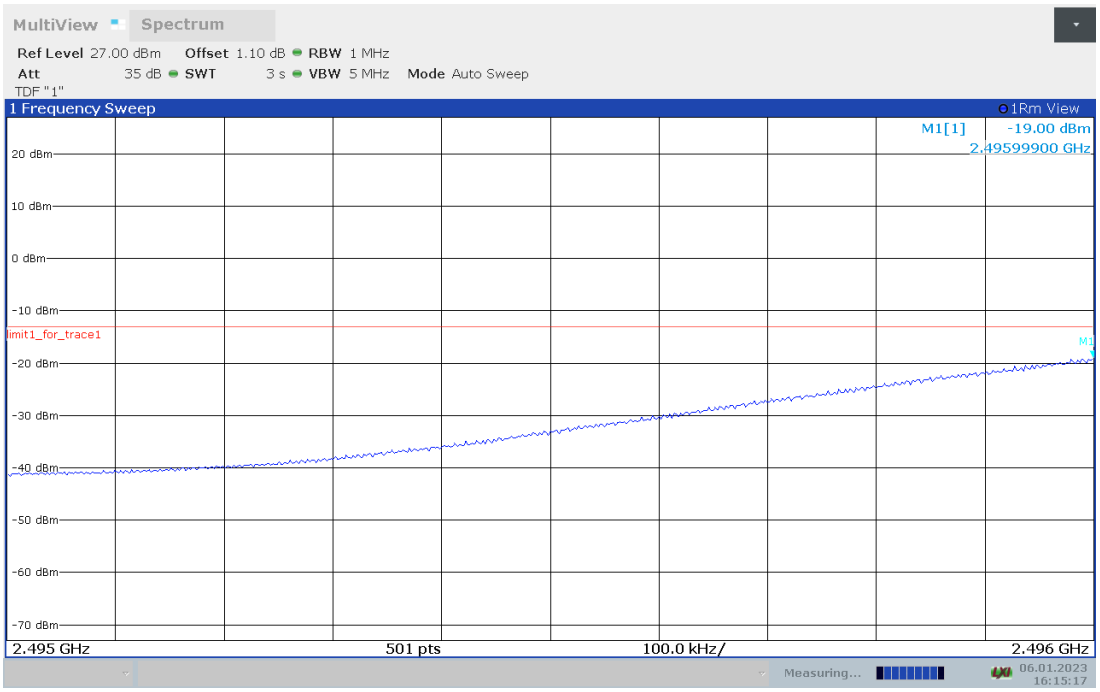


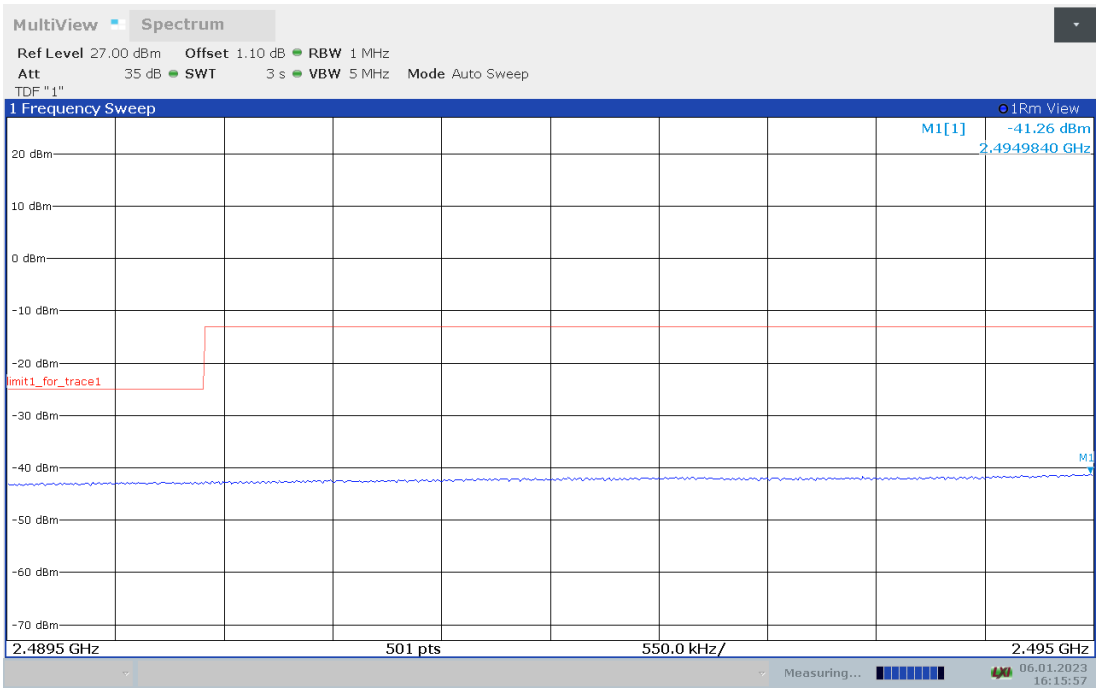
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-100M-100%RB



LOW BAND EDGE BLOCK-100M-100%RB



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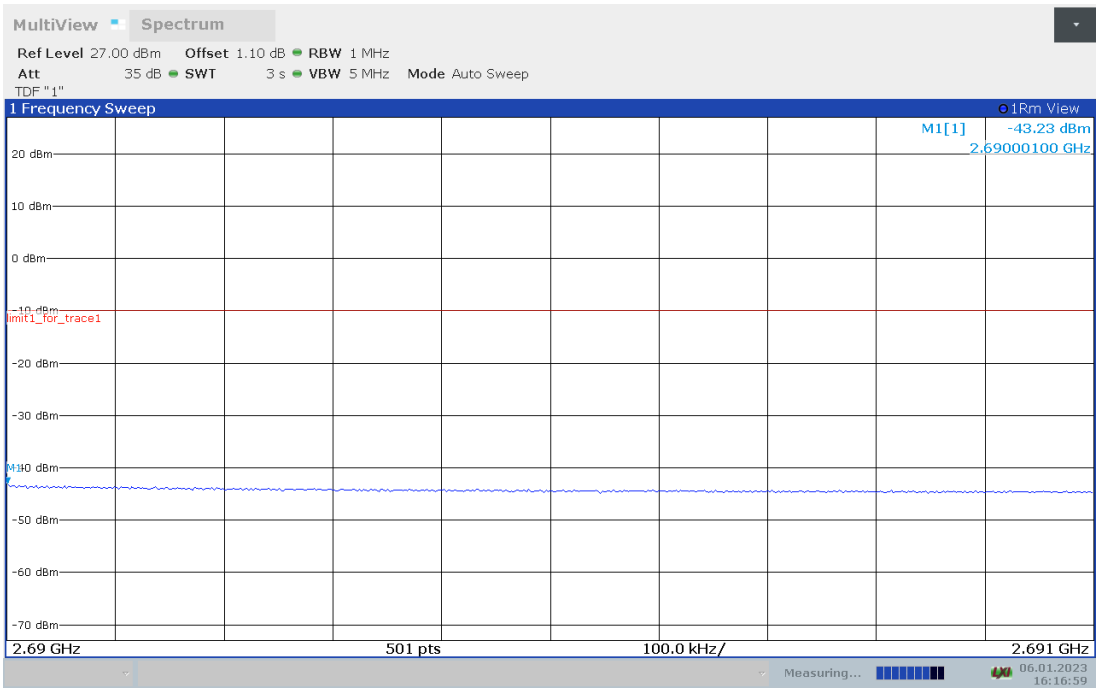

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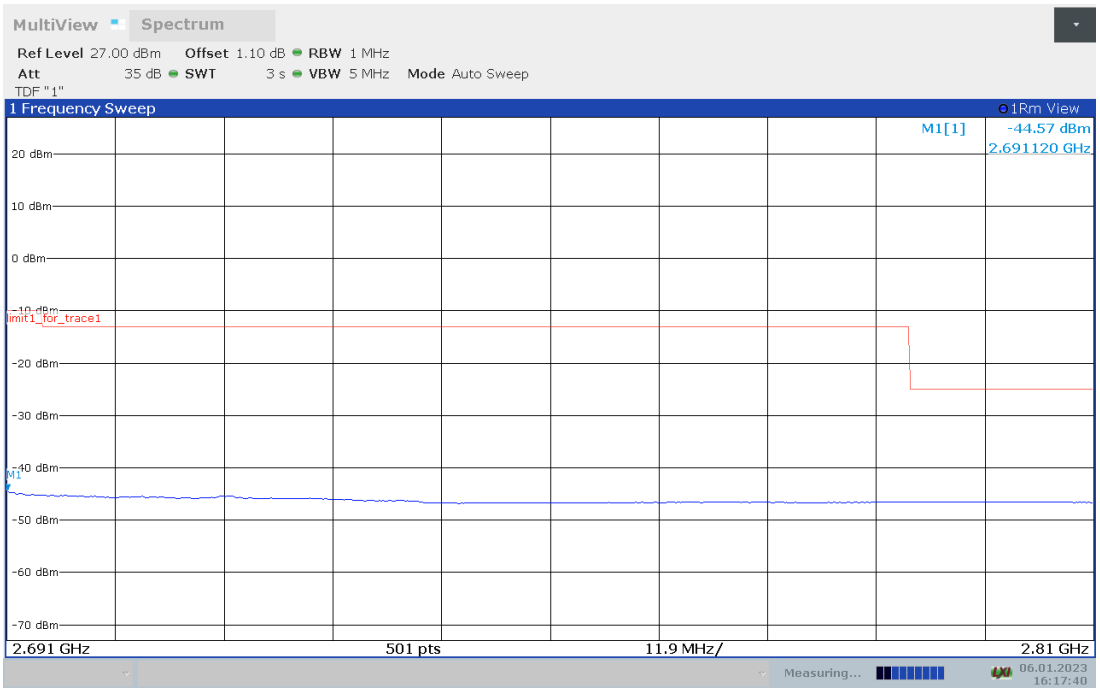

DC_12A_n66A

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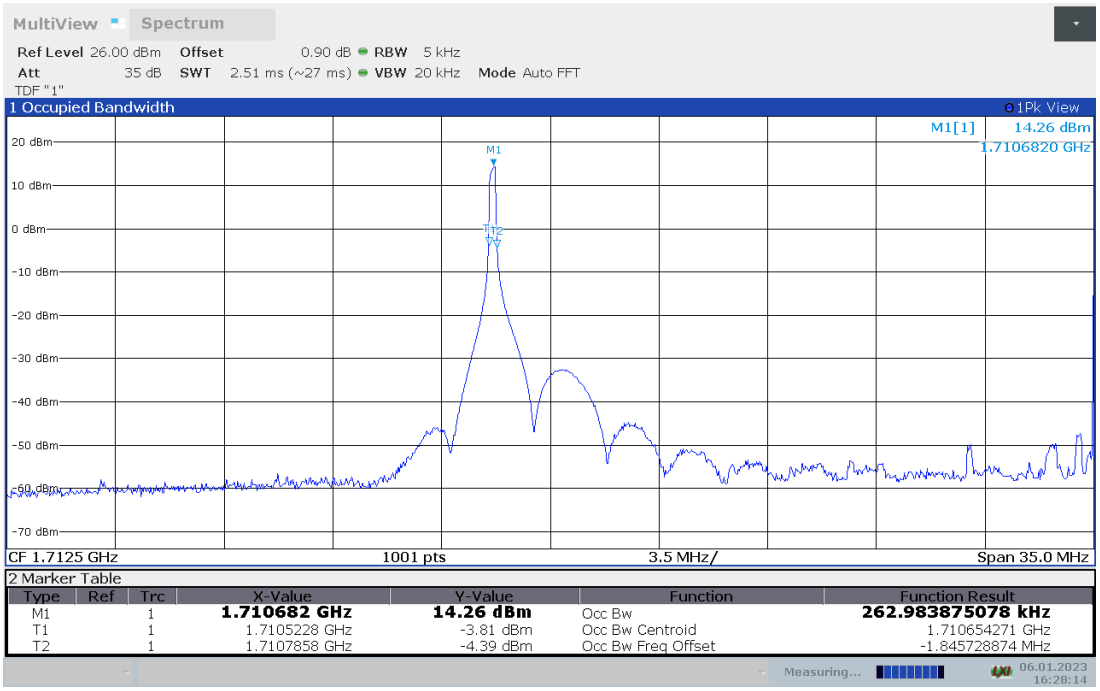

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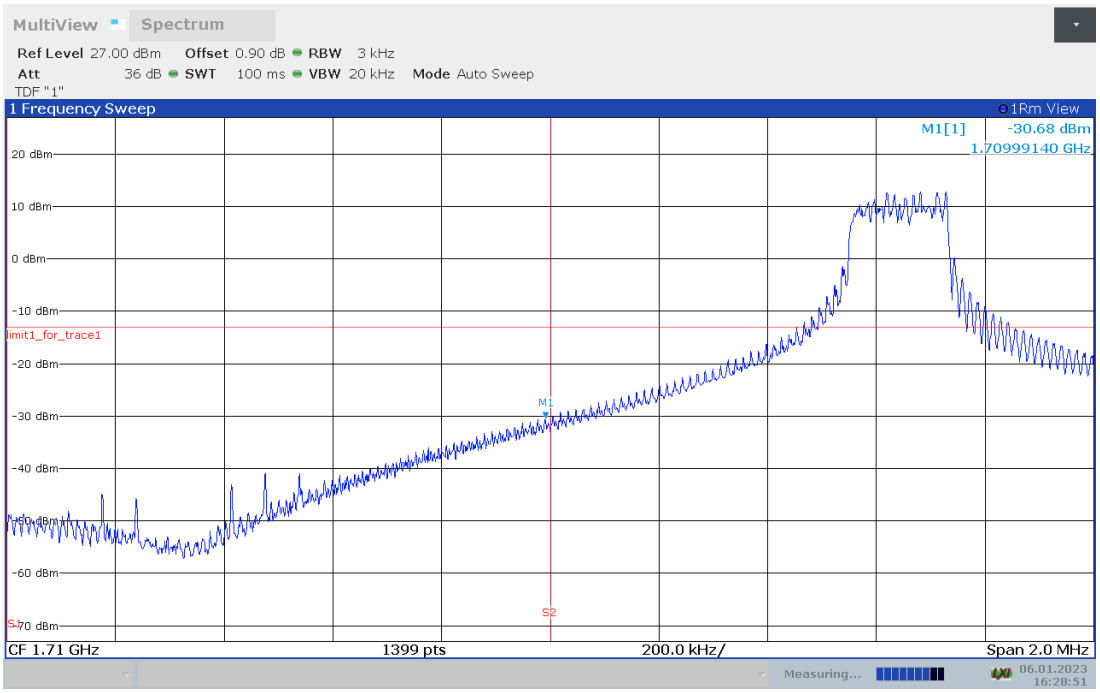

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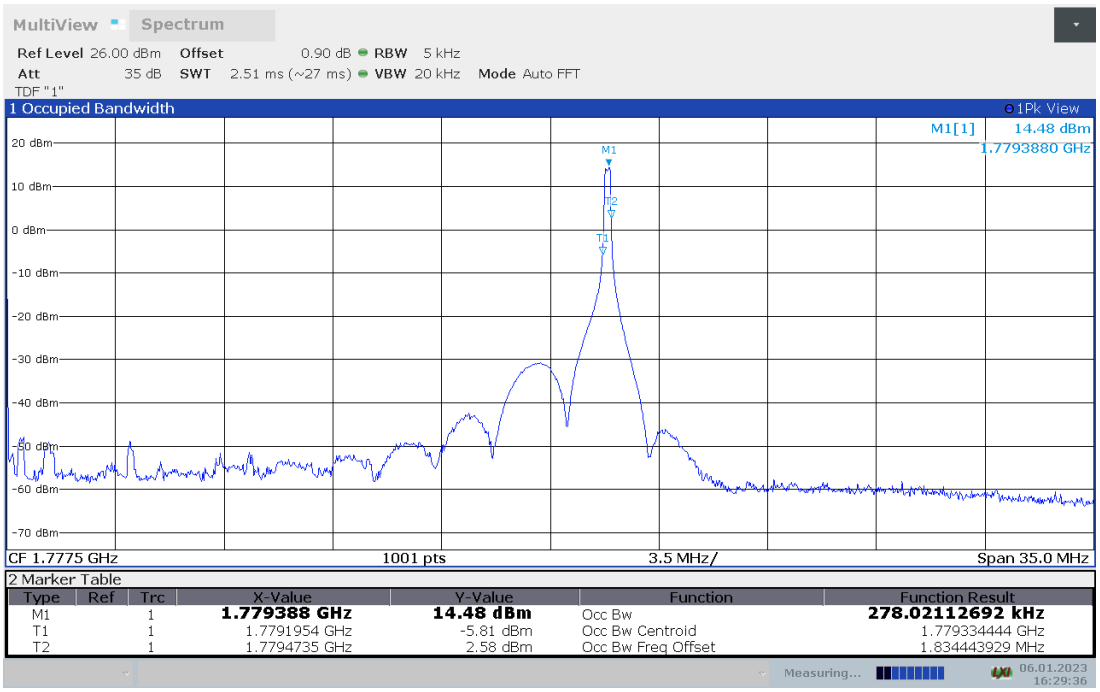

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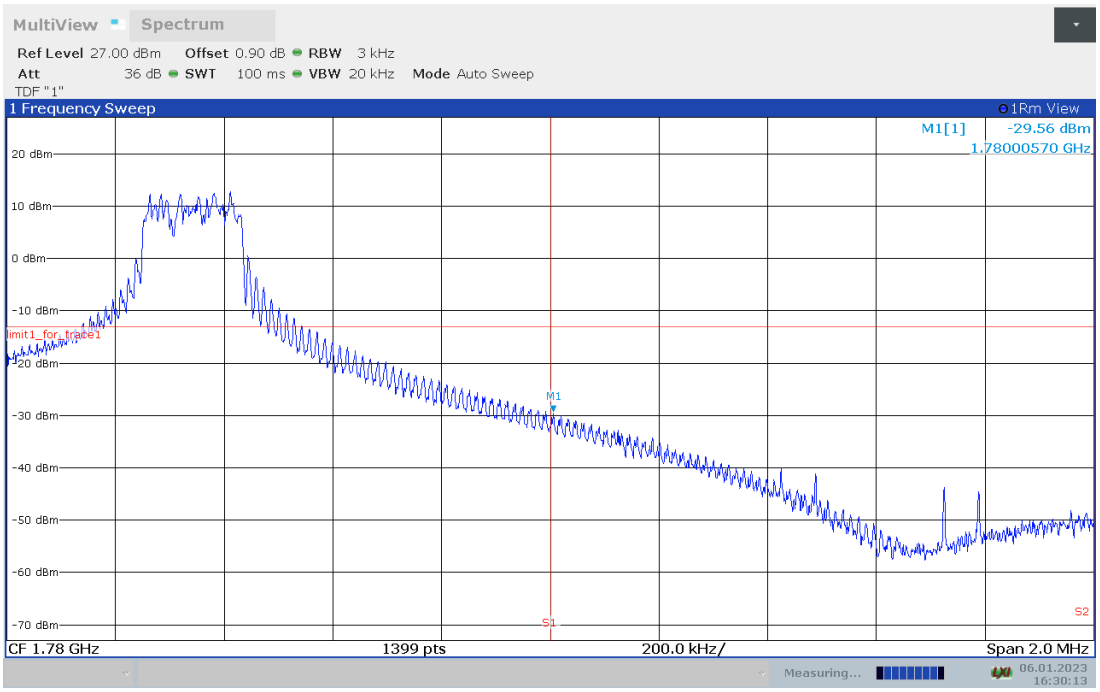

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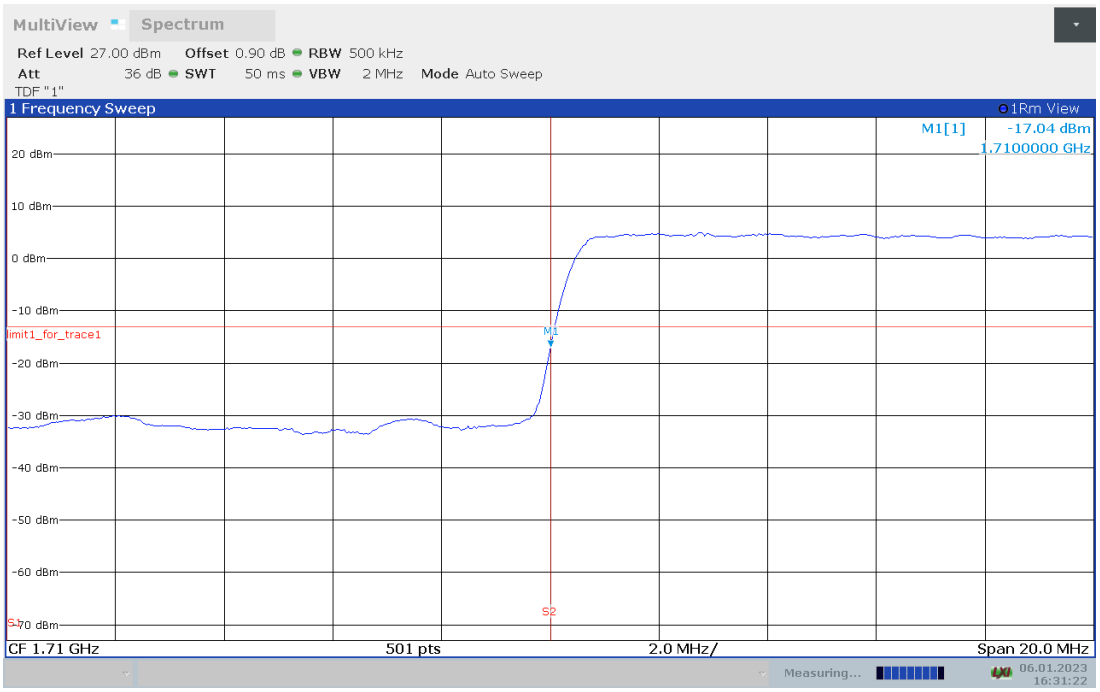

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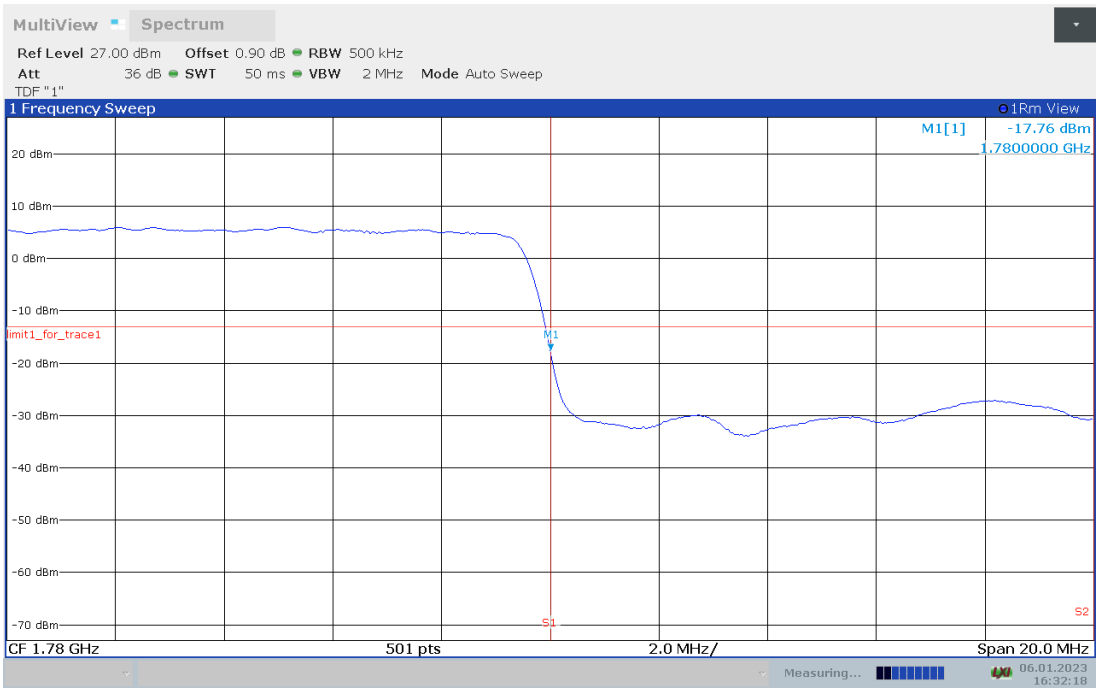

n71

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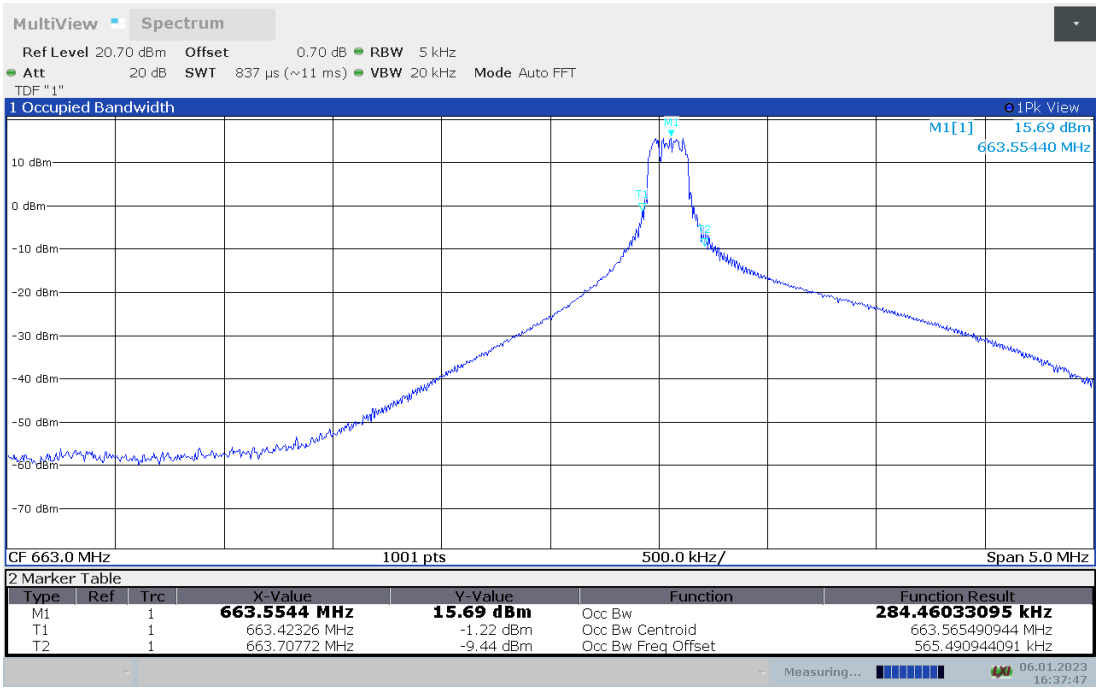

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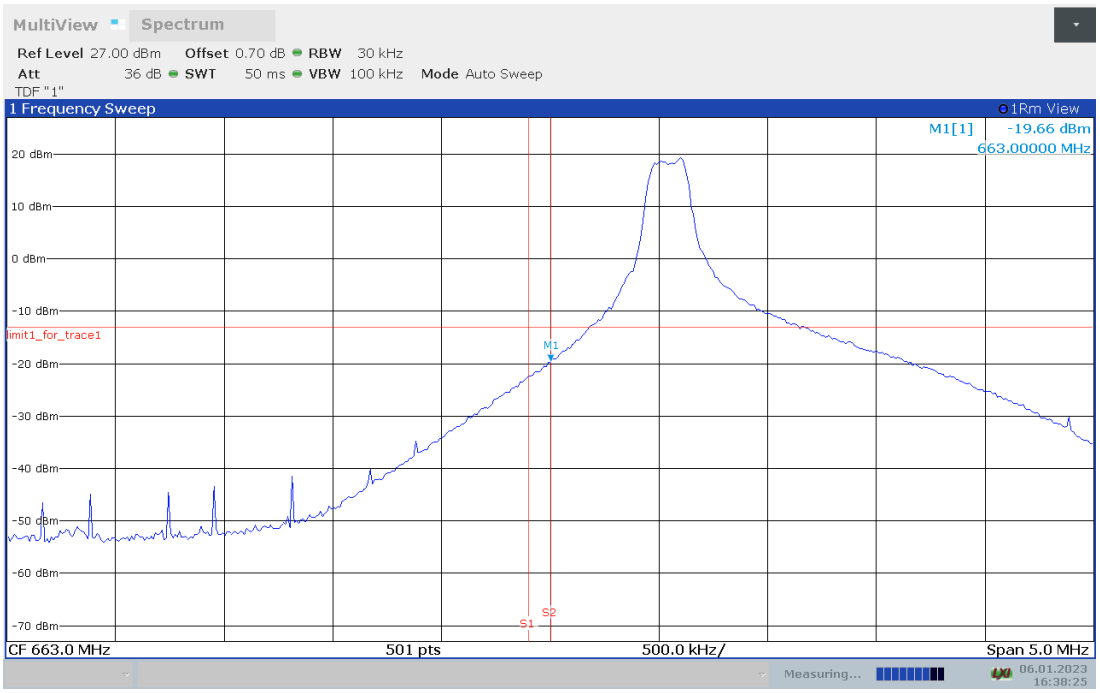

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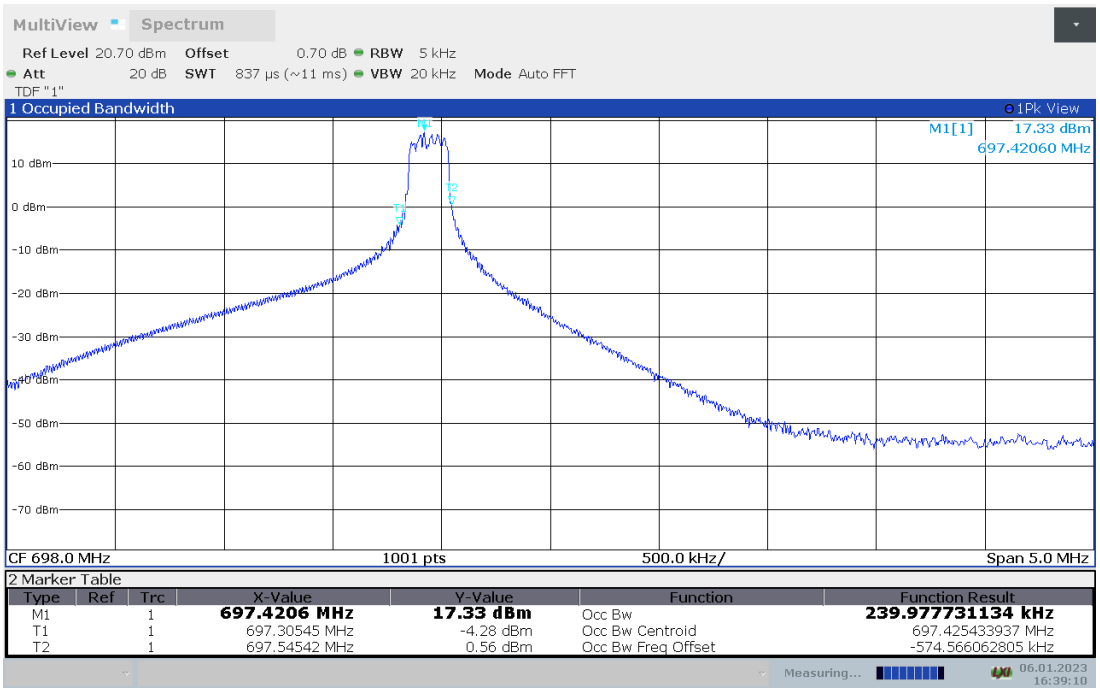

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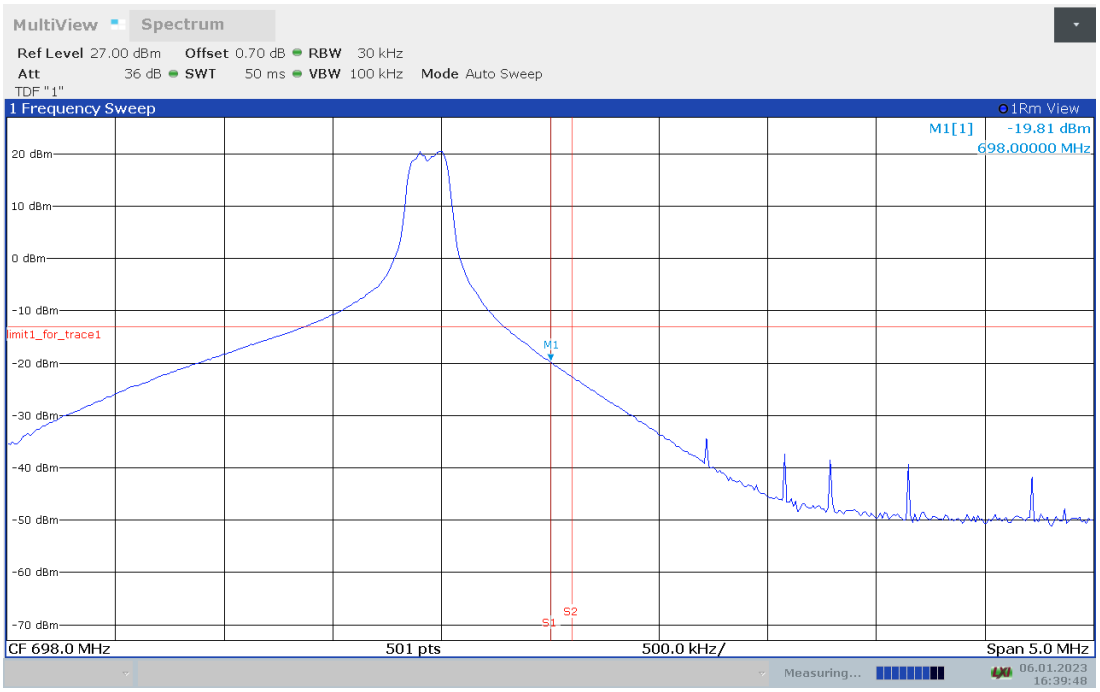

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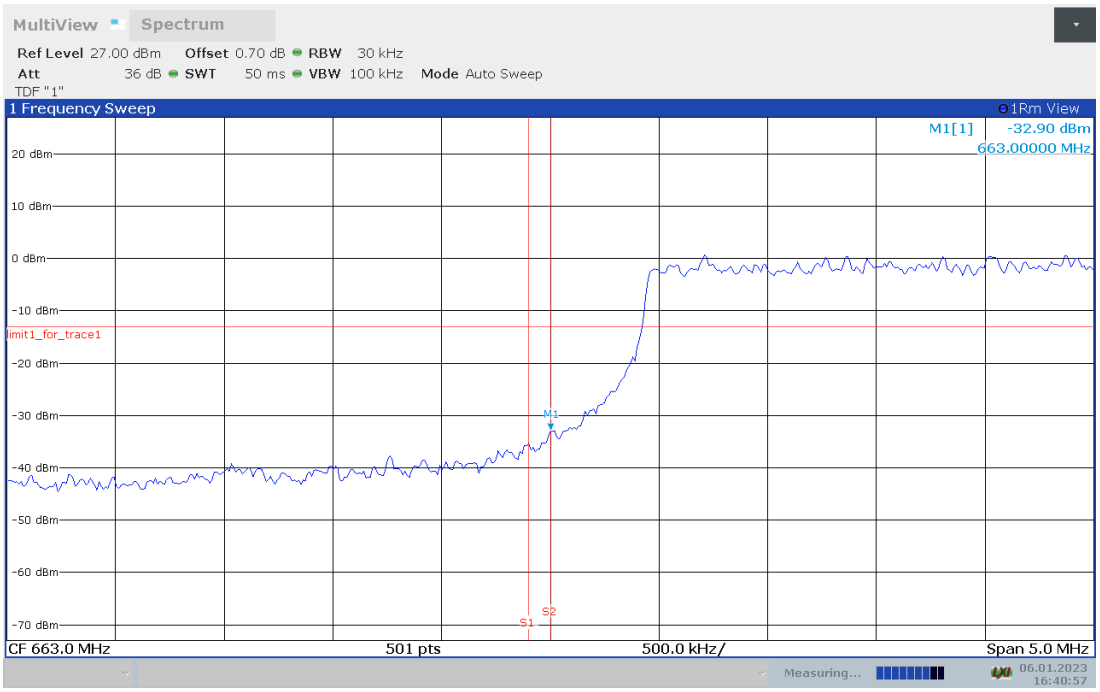

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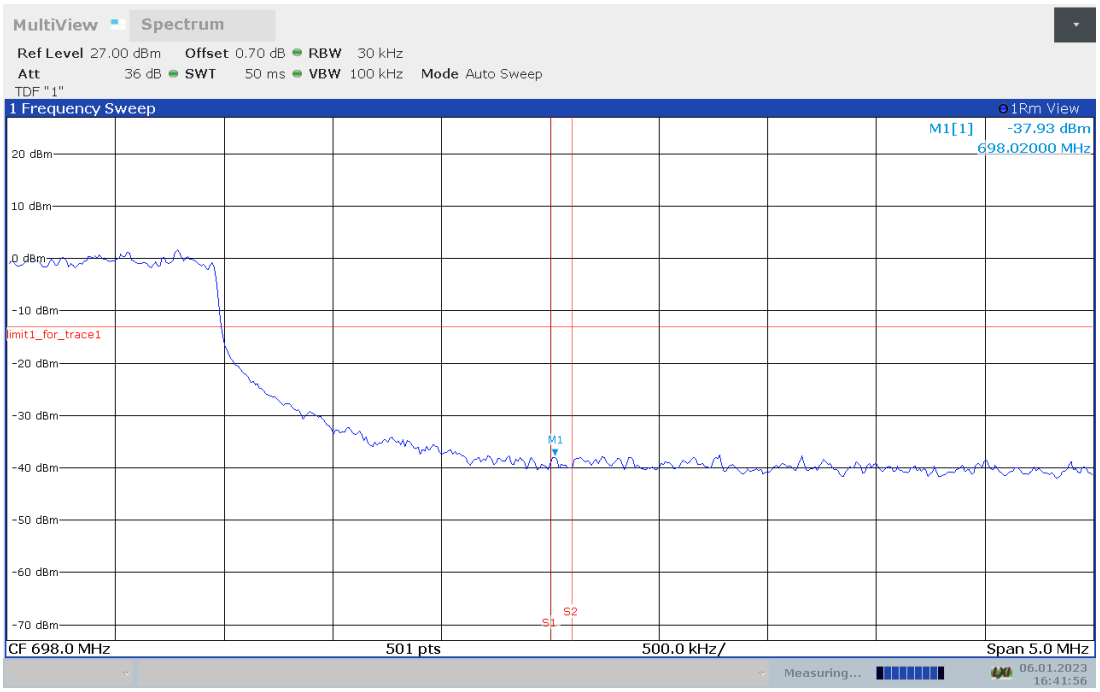

n77L

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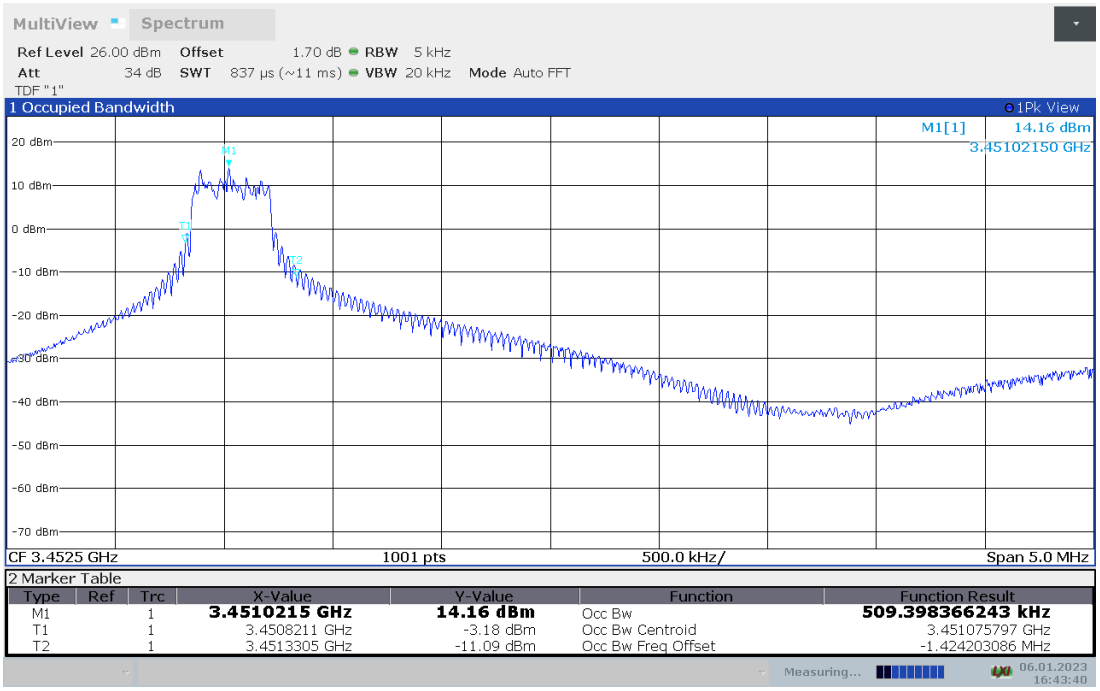

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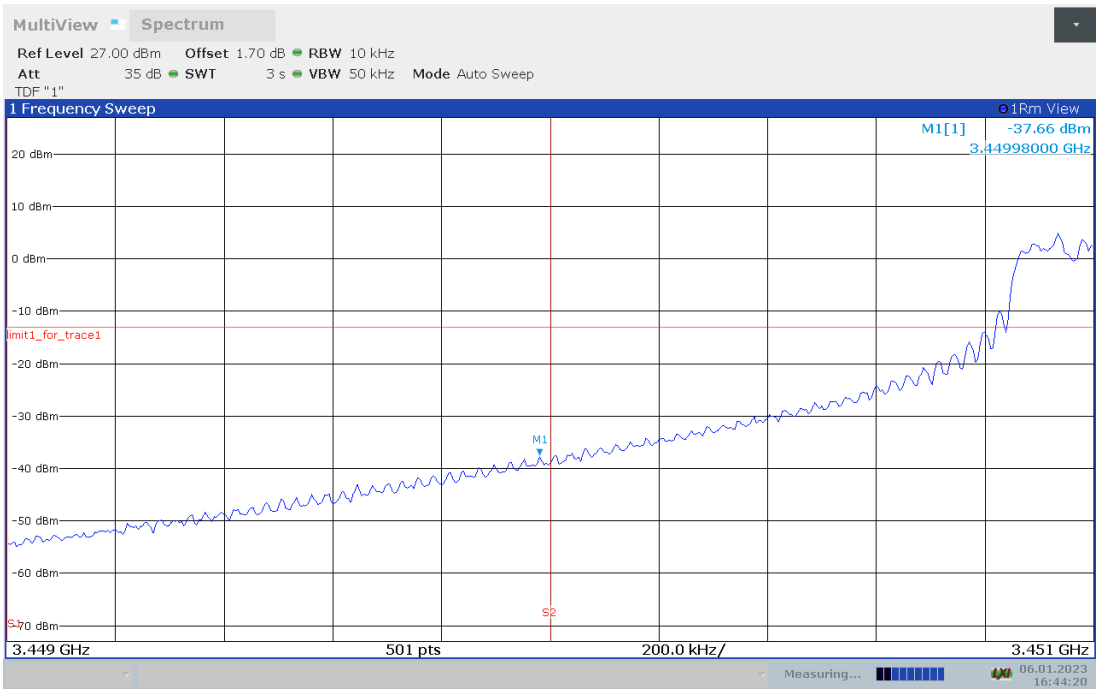

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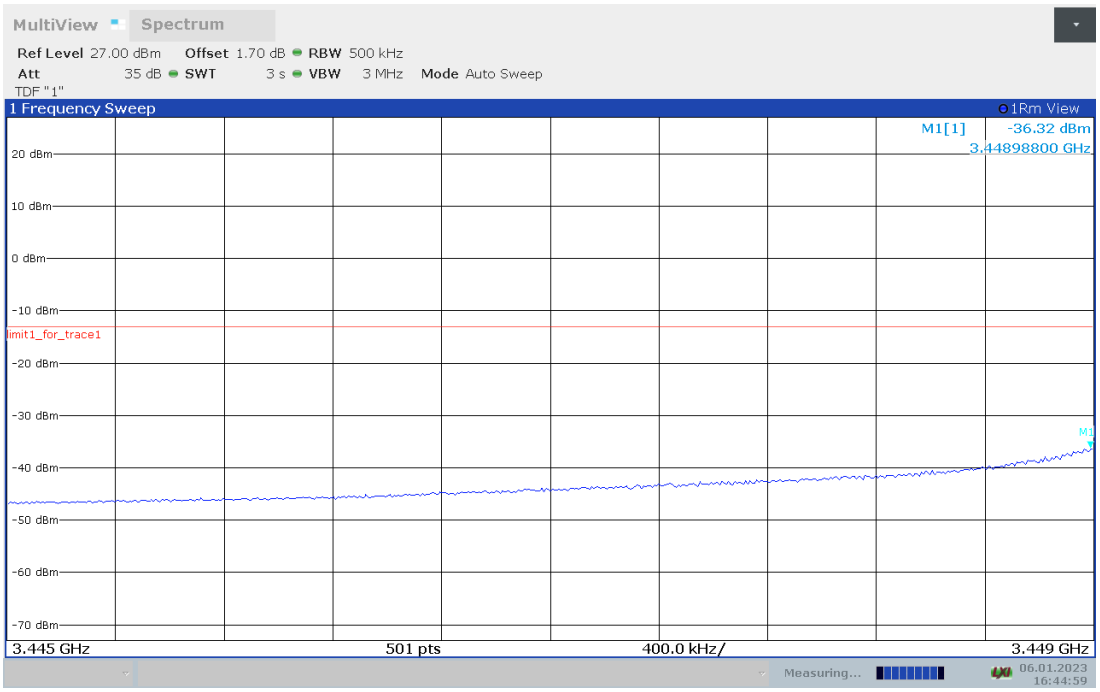

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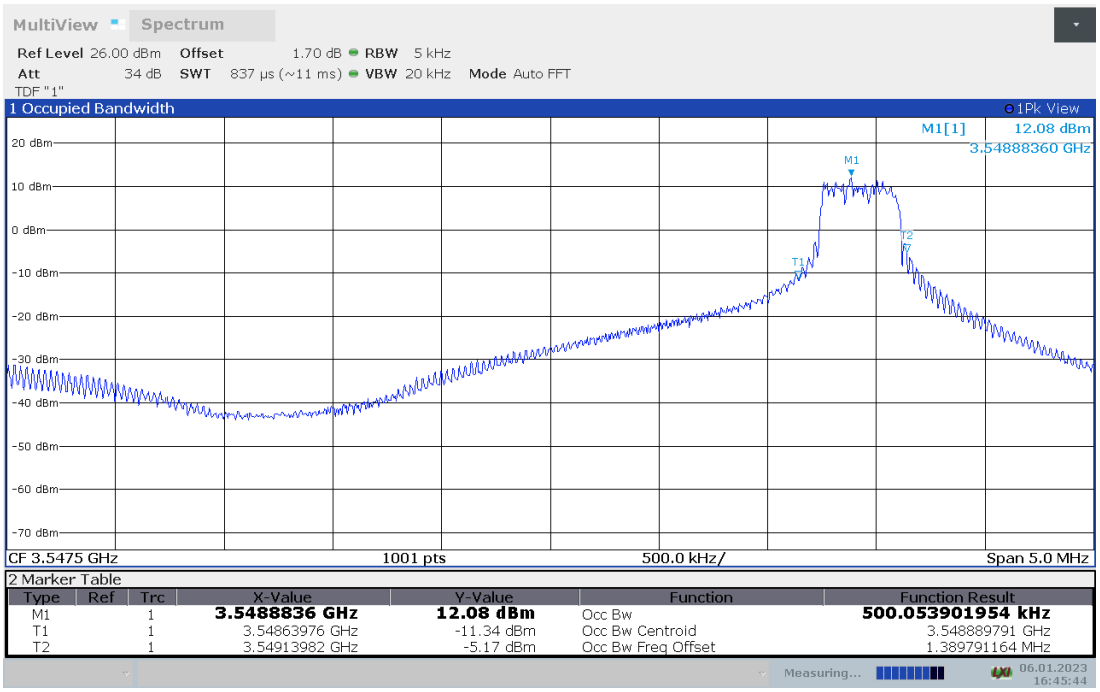

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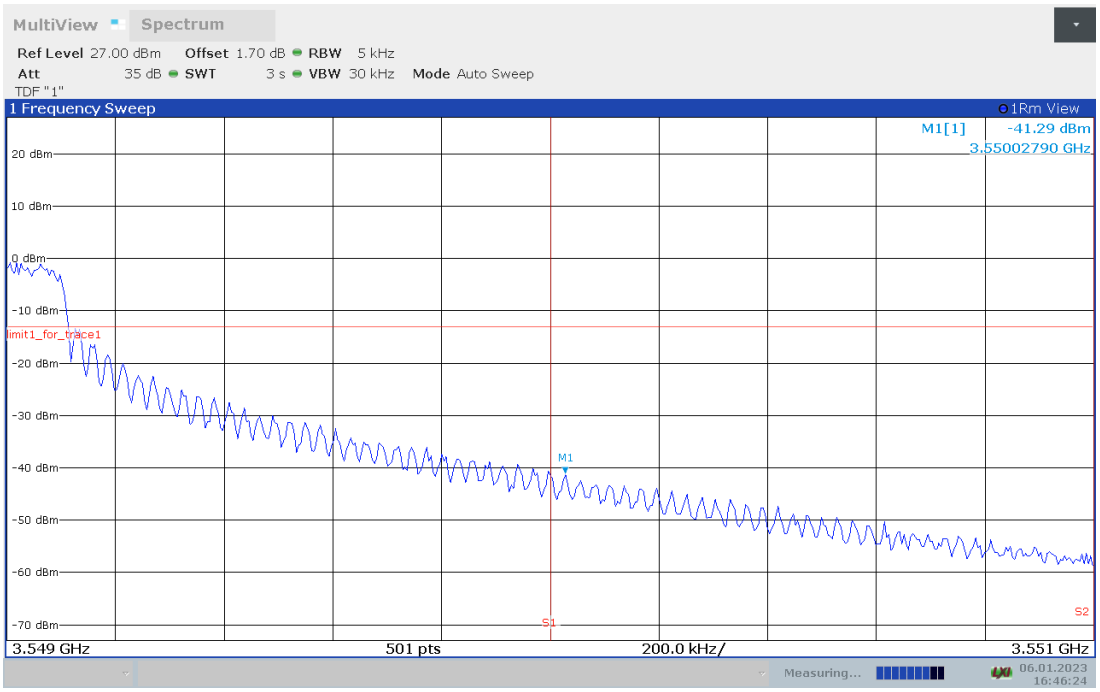

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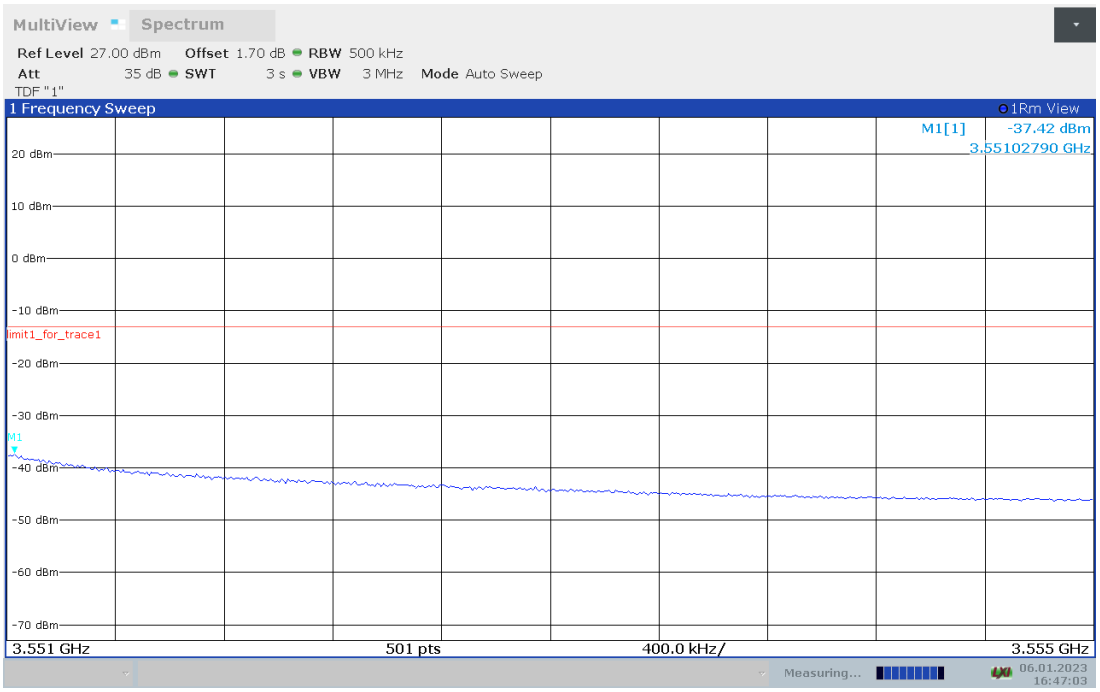

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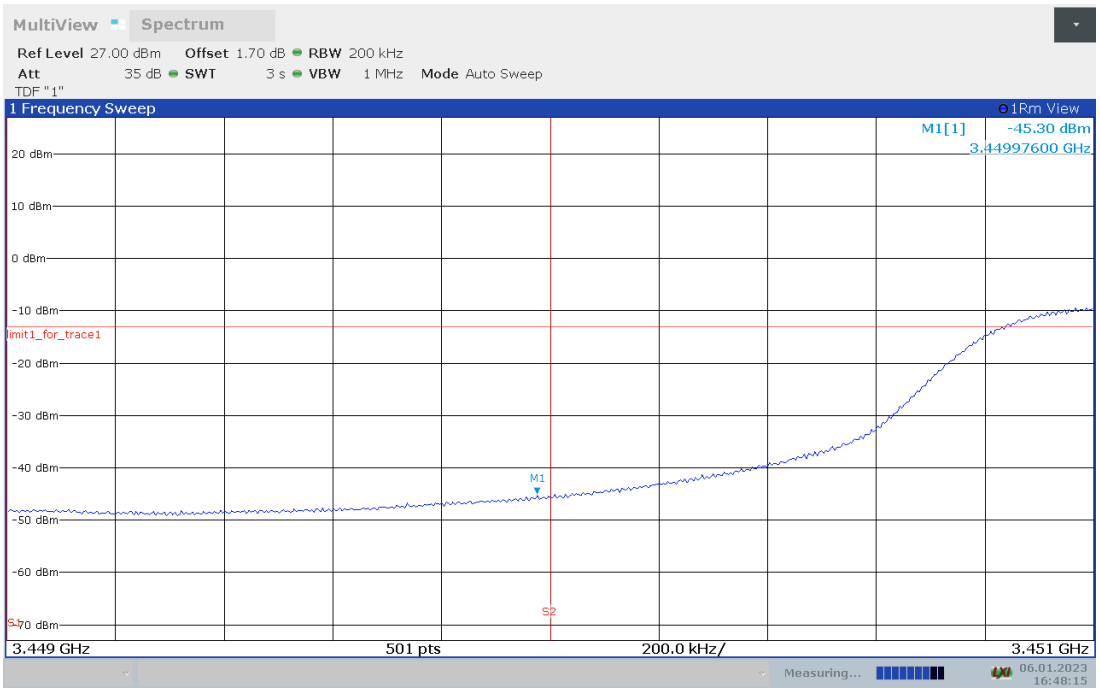

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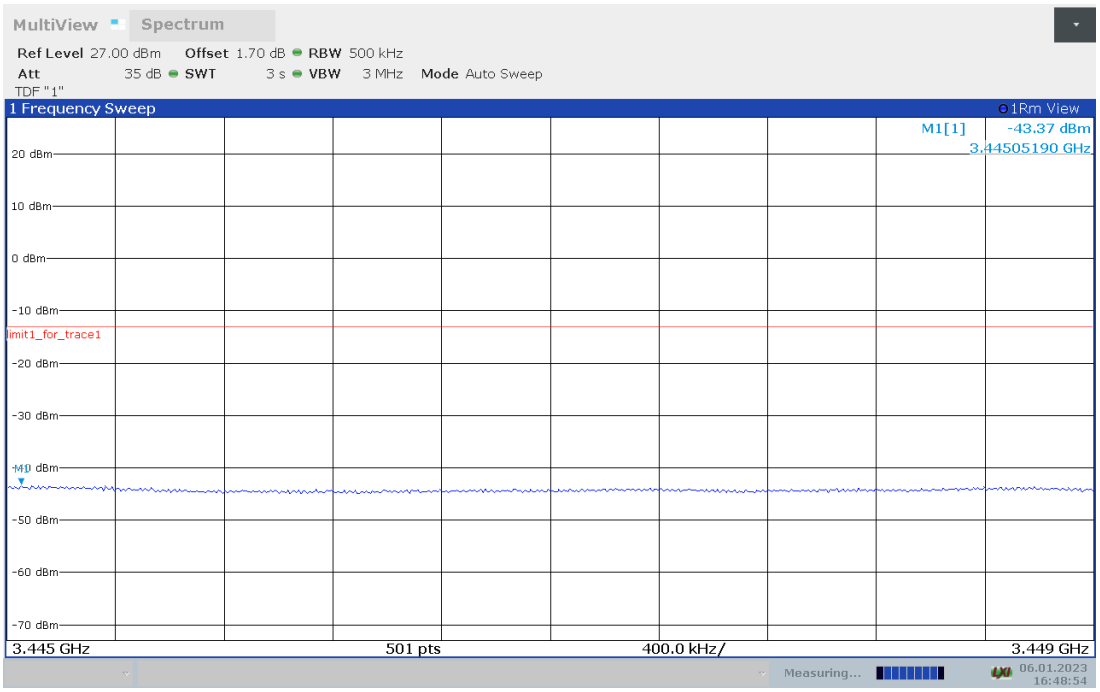

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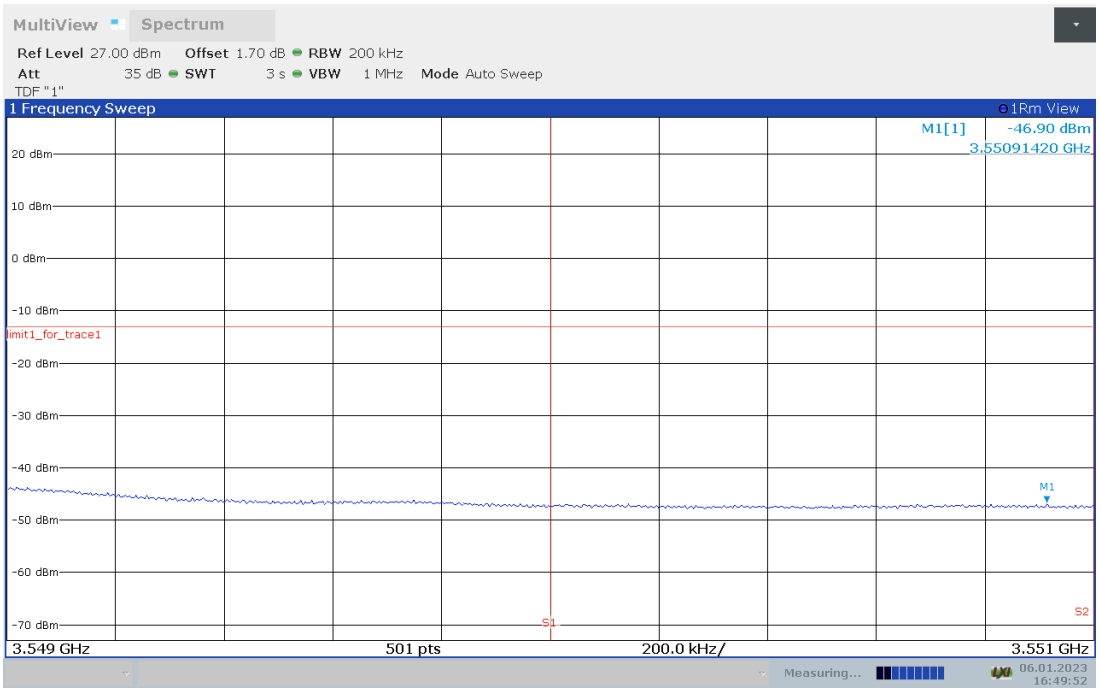

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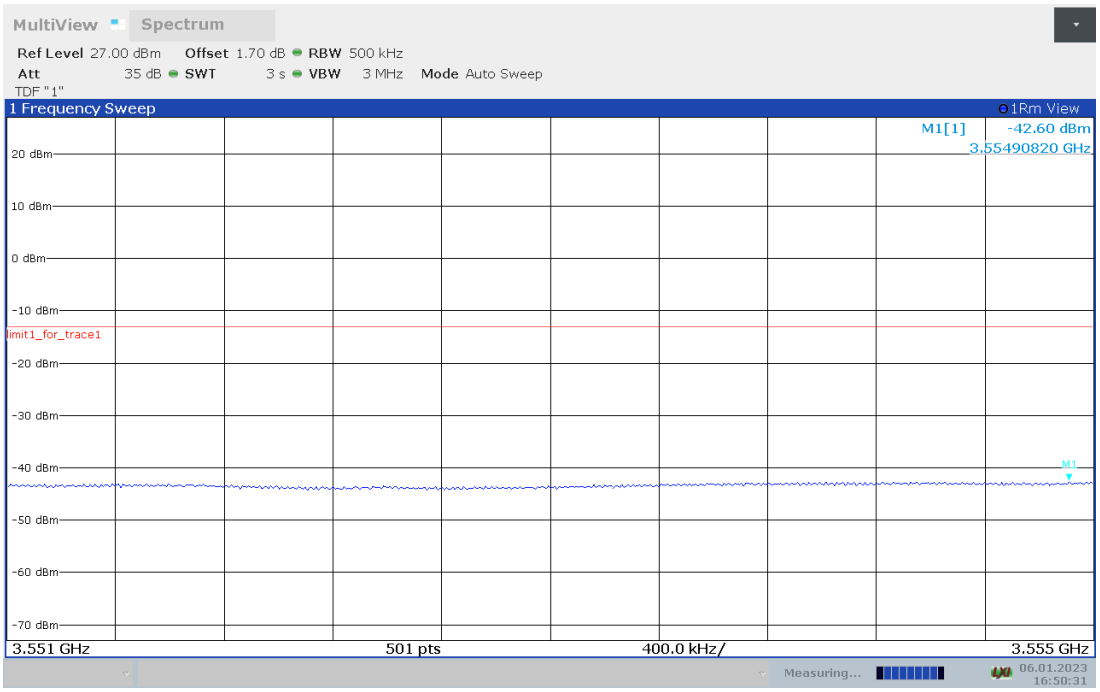

n77H

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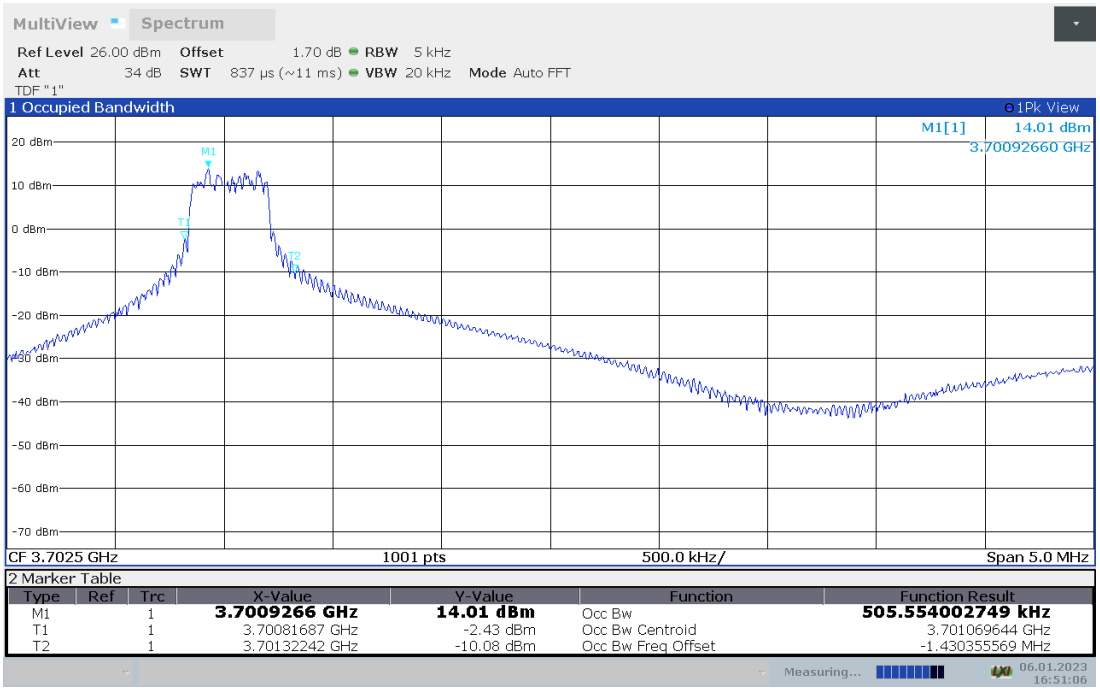

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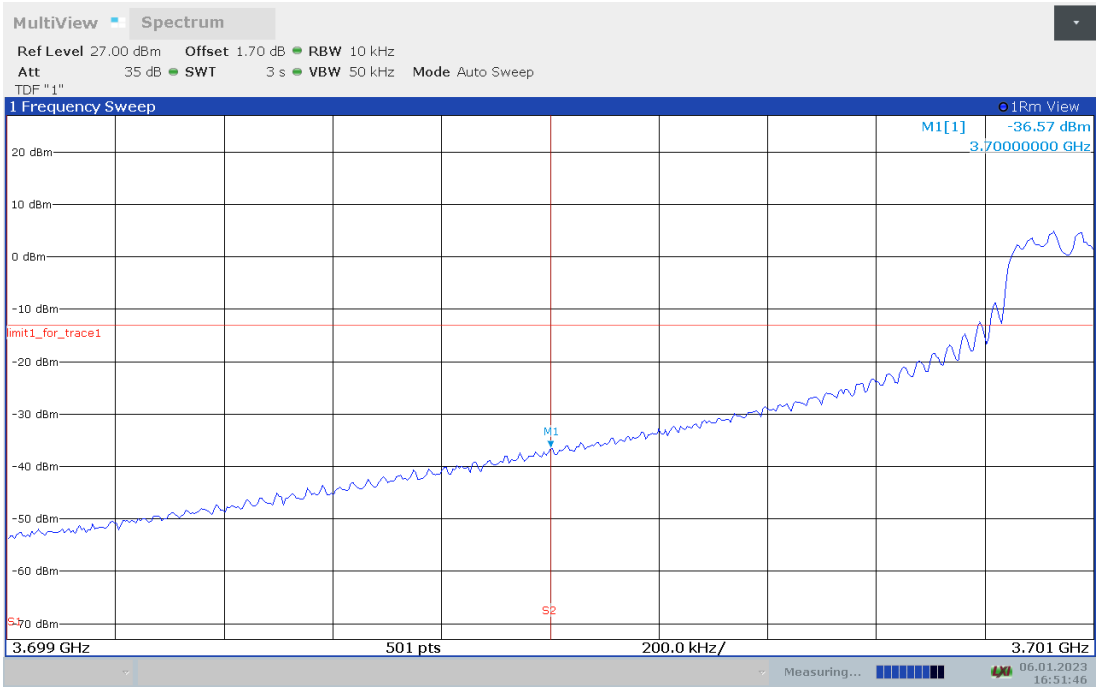

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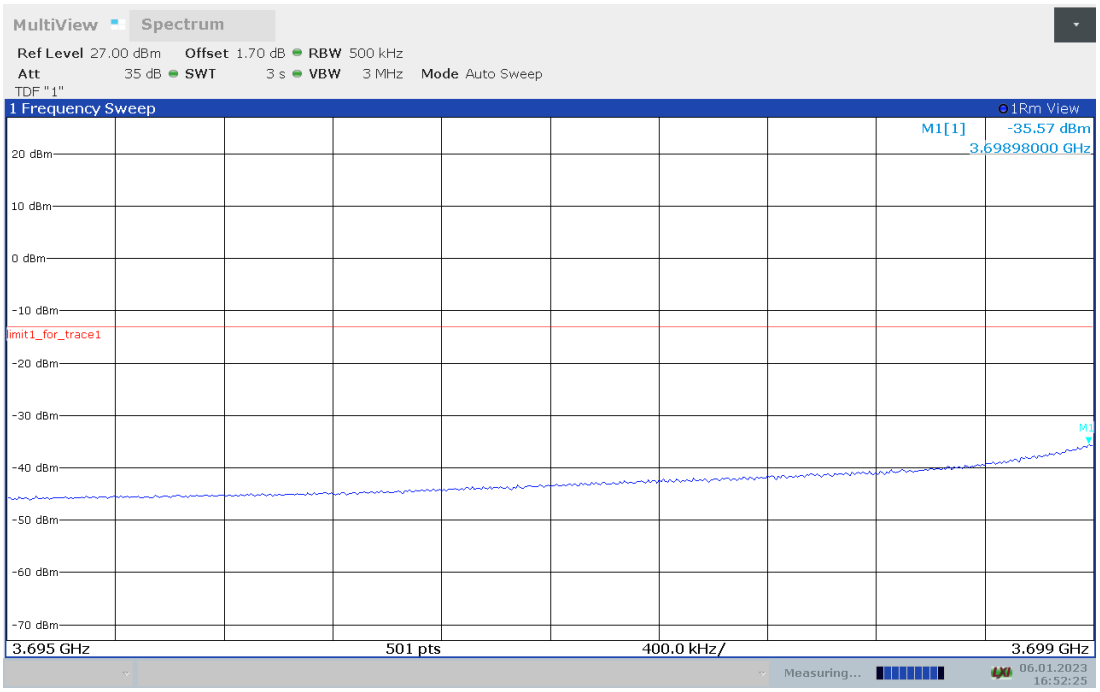

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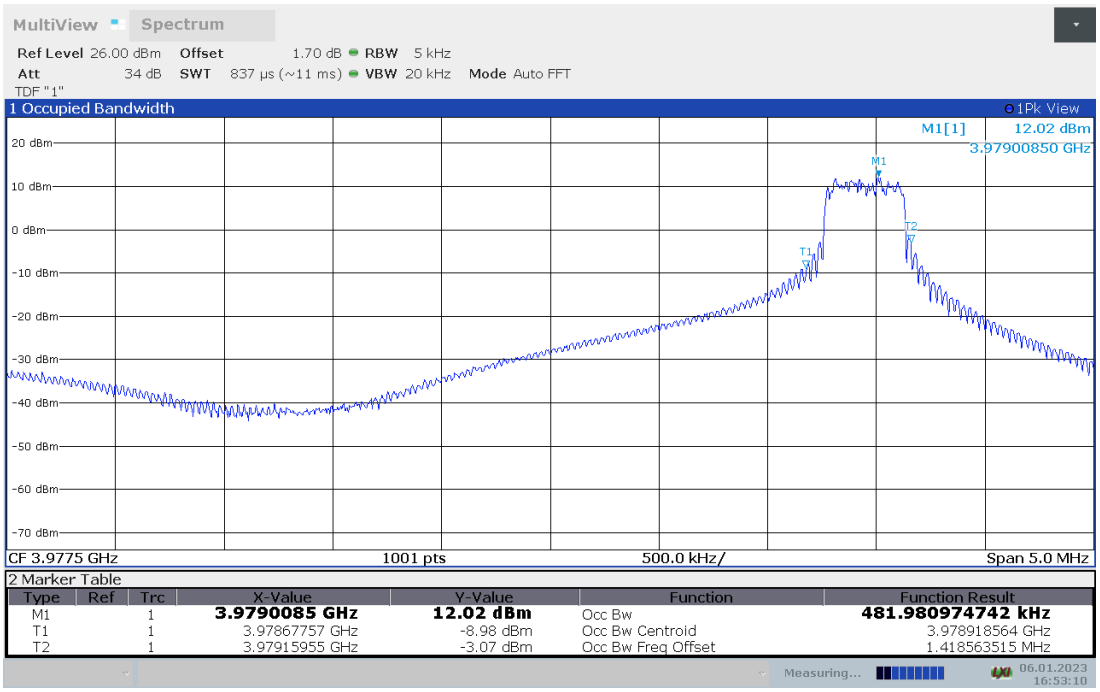

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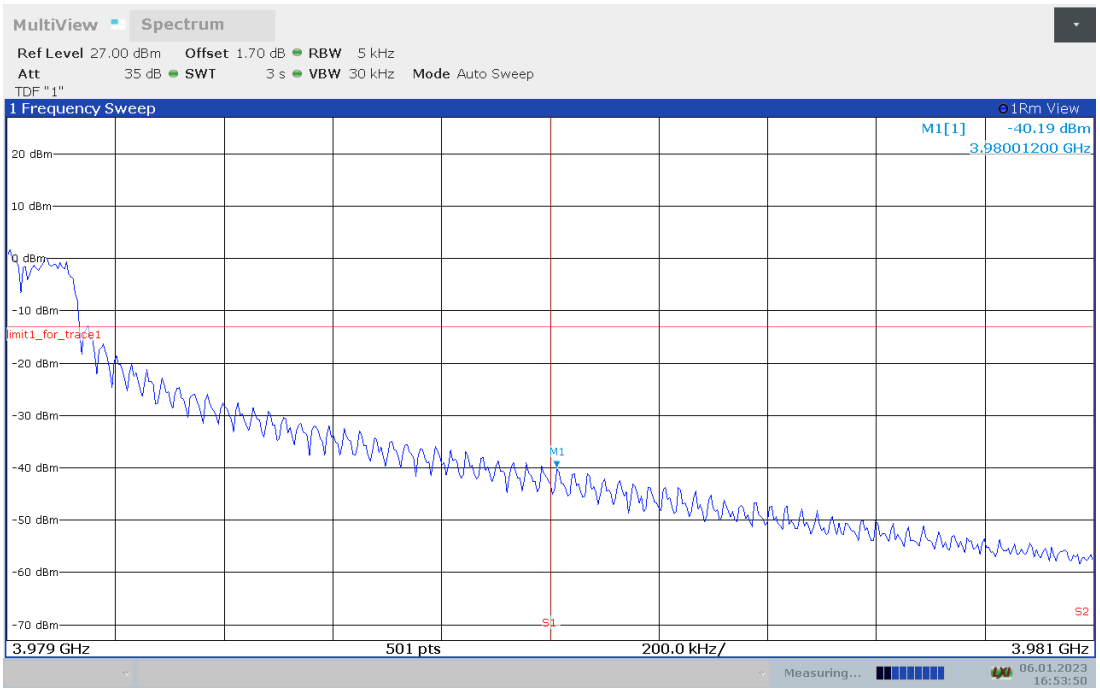

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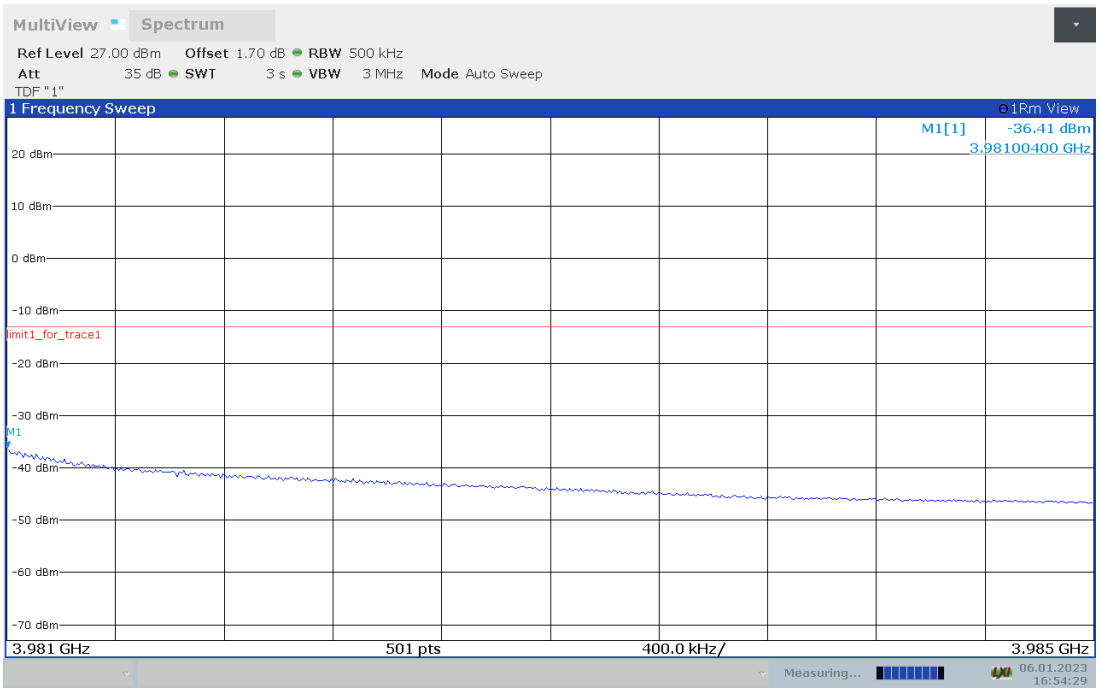

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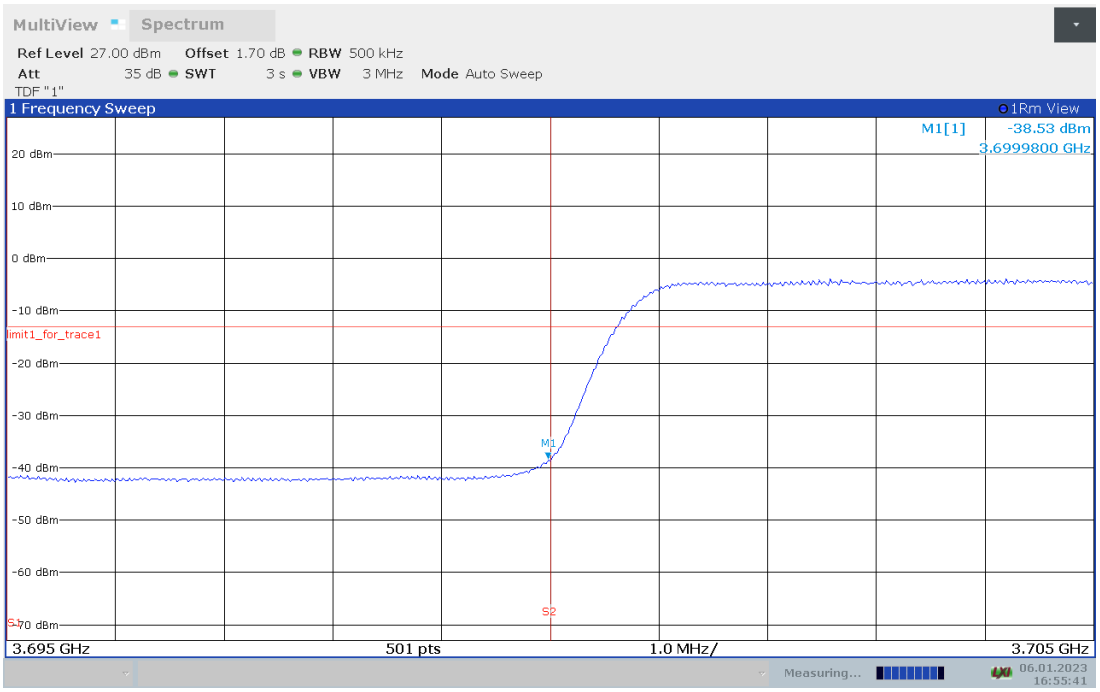

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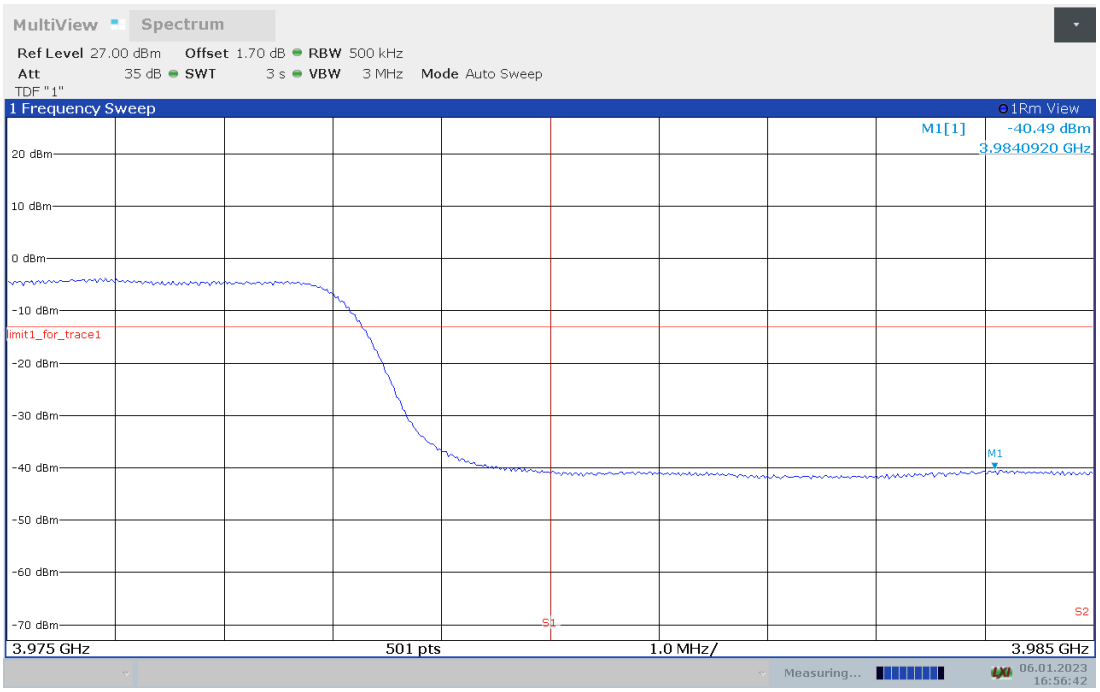

n78L

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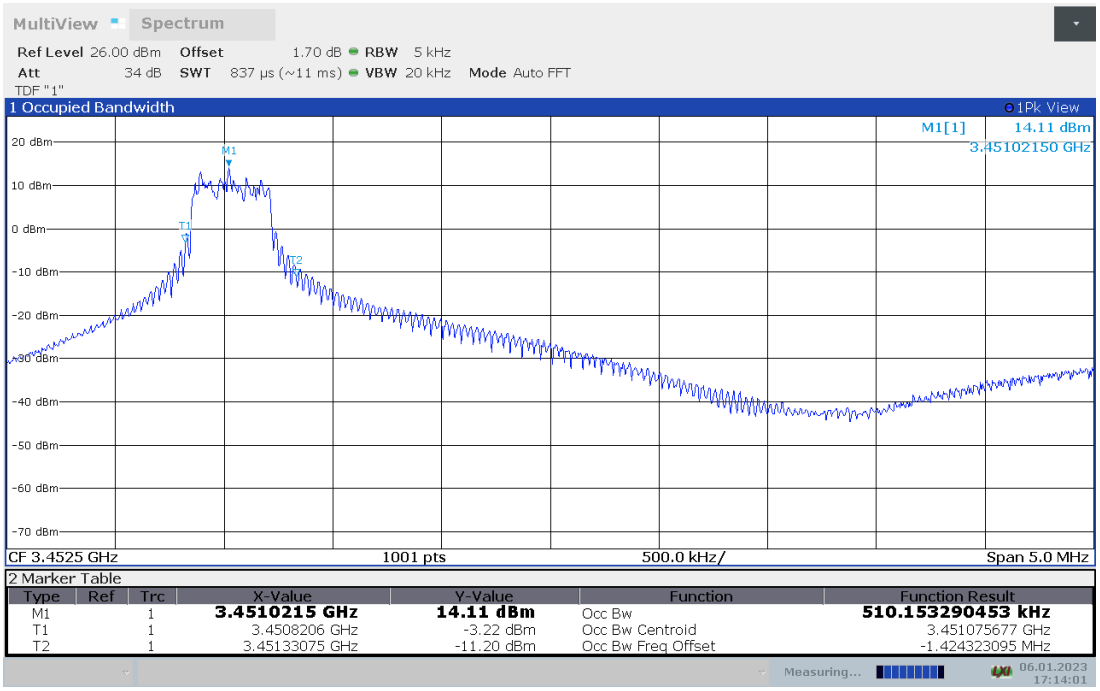

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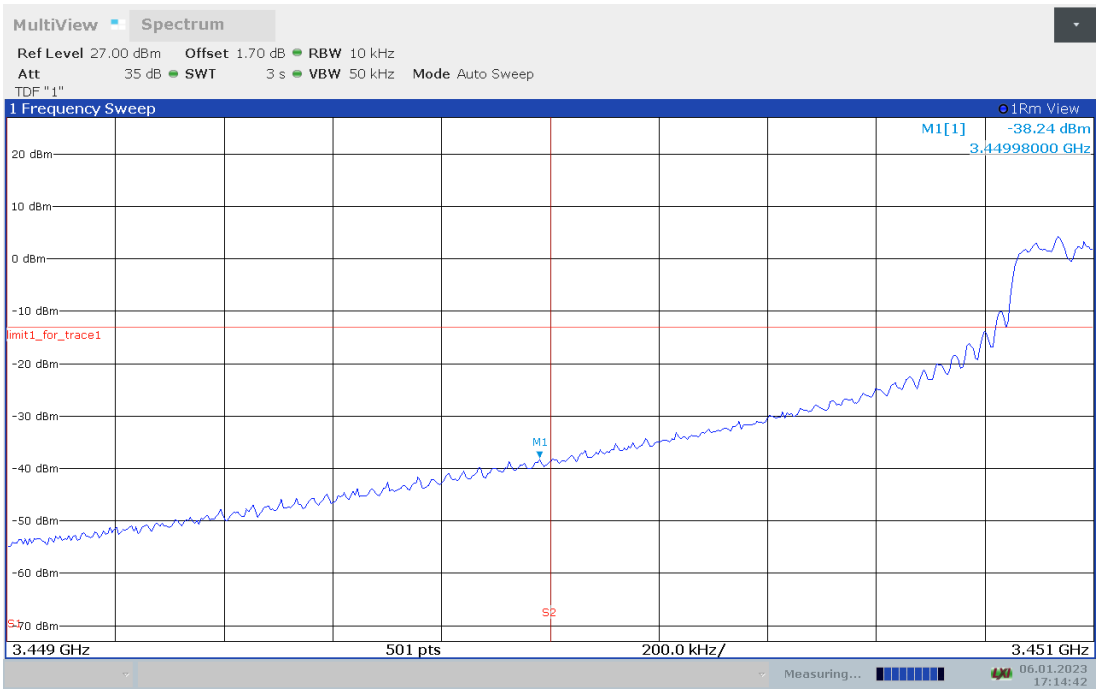

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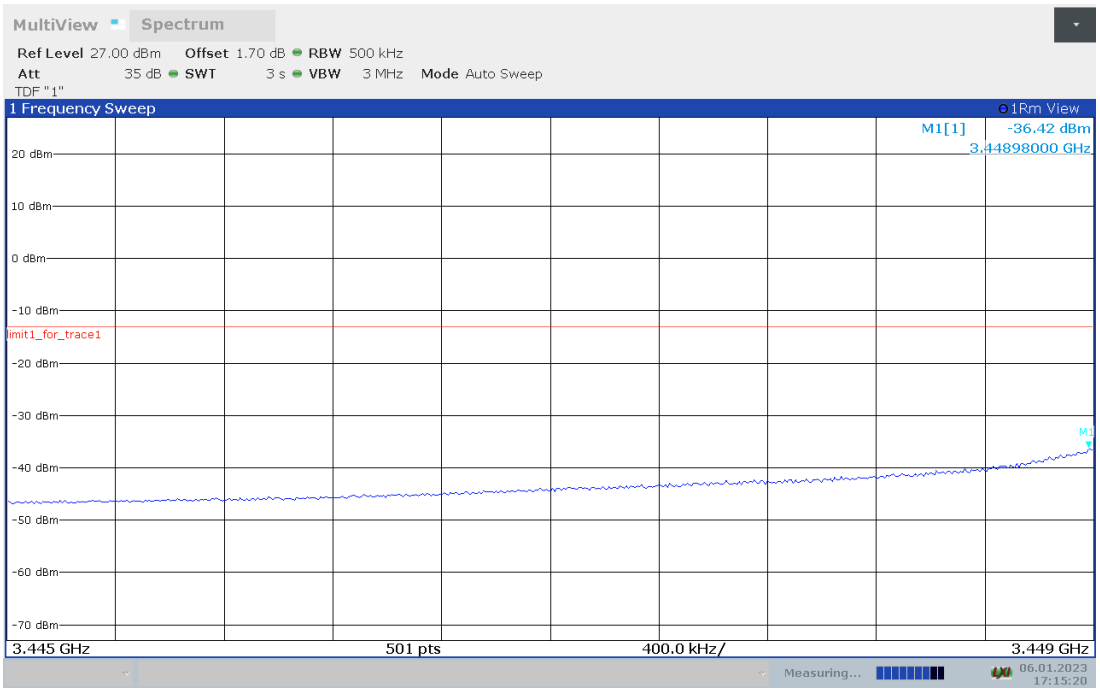

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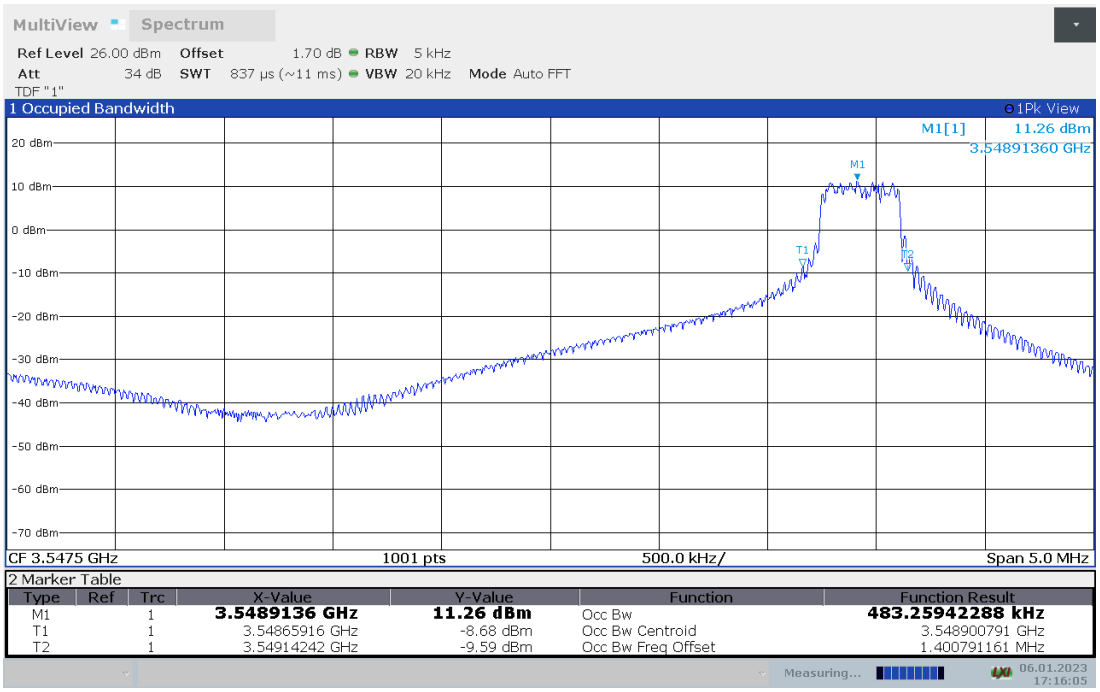
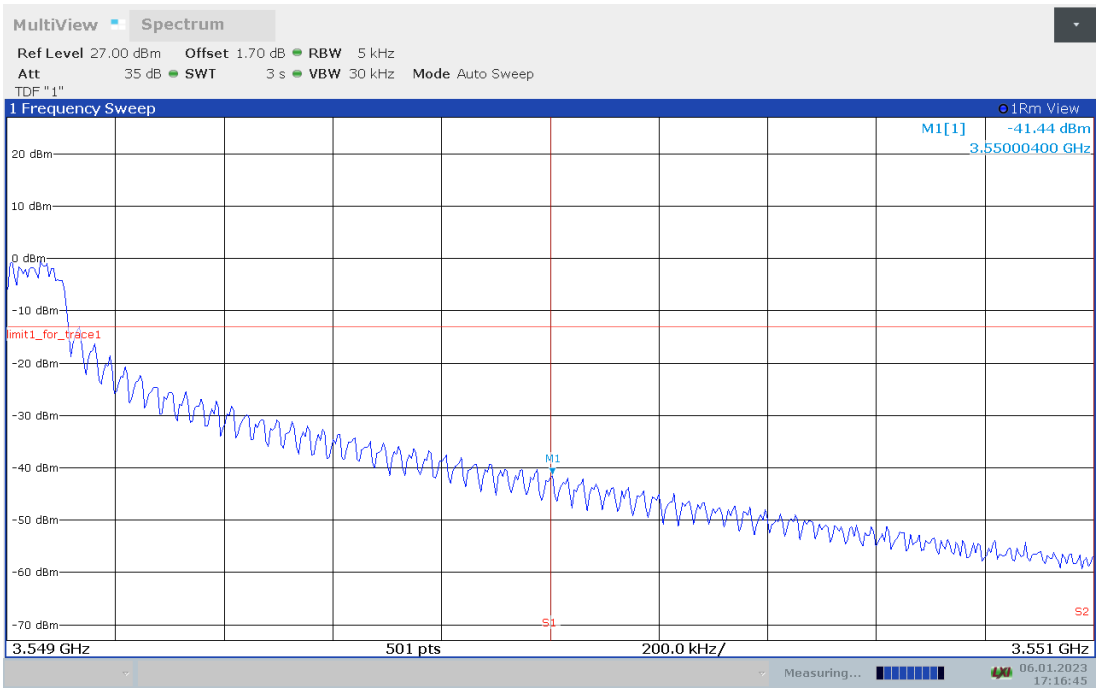


HIGH BAND EDGE BLOCK-1RB-HIGH_offset



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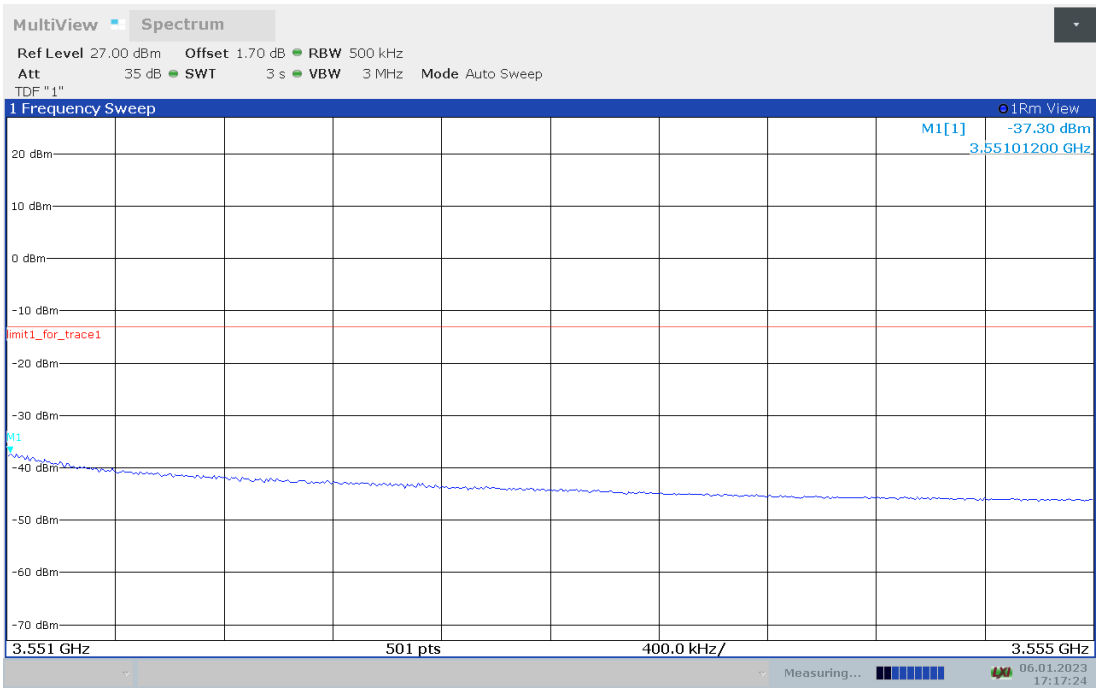
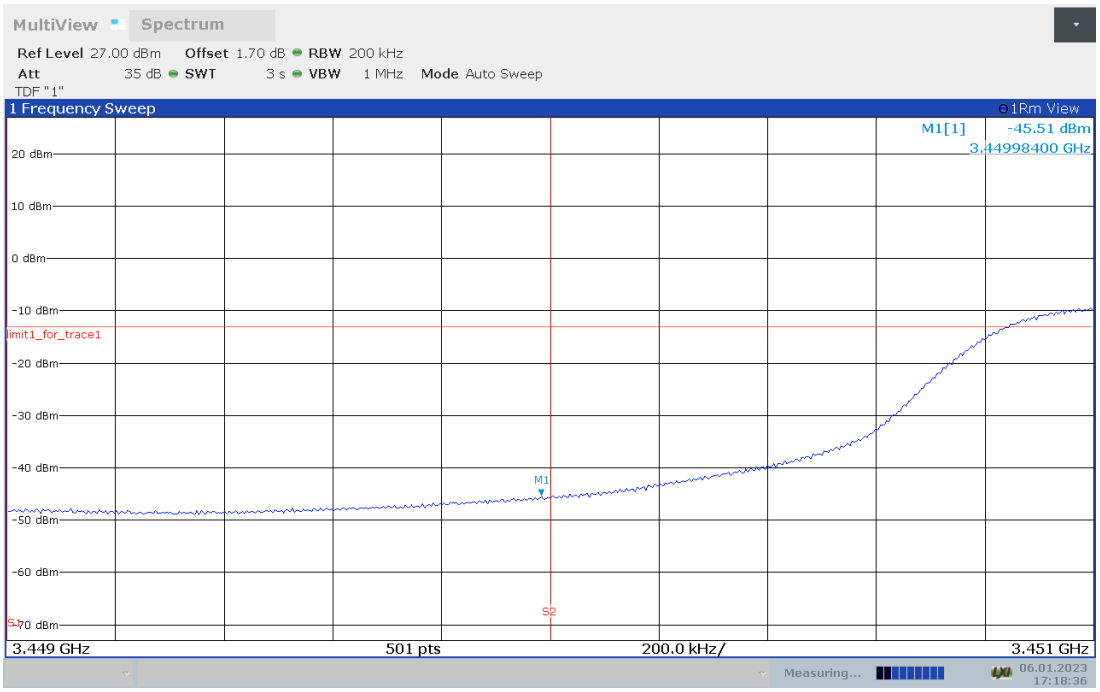
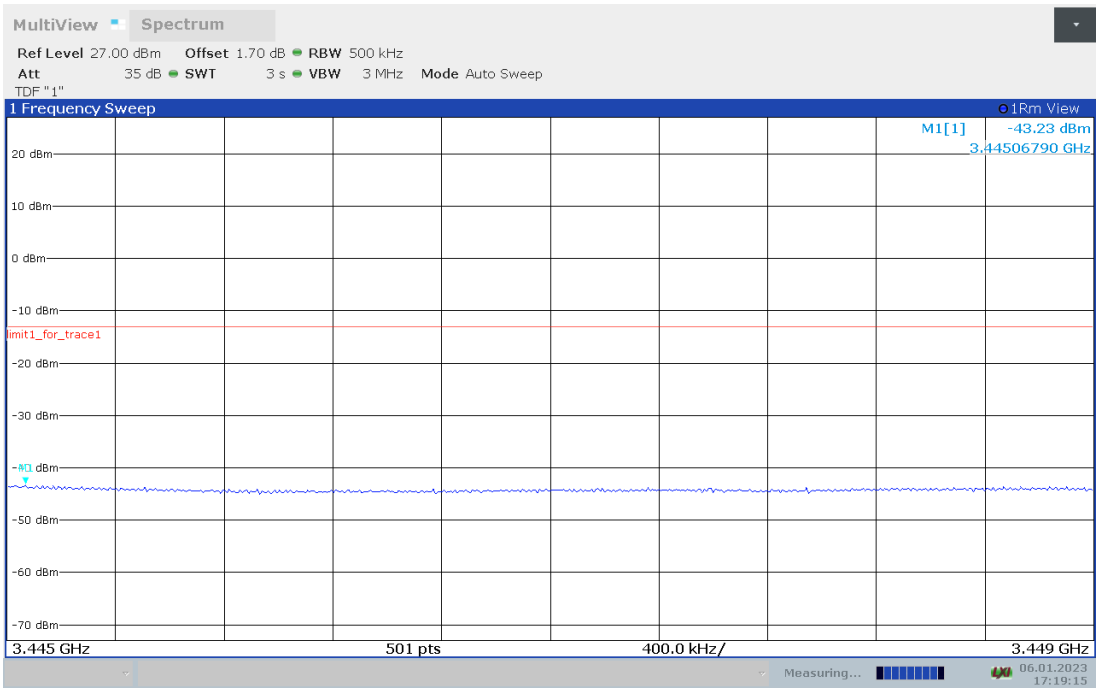


LOW BAND EDGE BLOCK-100M-100%RB



LOW BAND EDGE BLOCK-100M-100%RB



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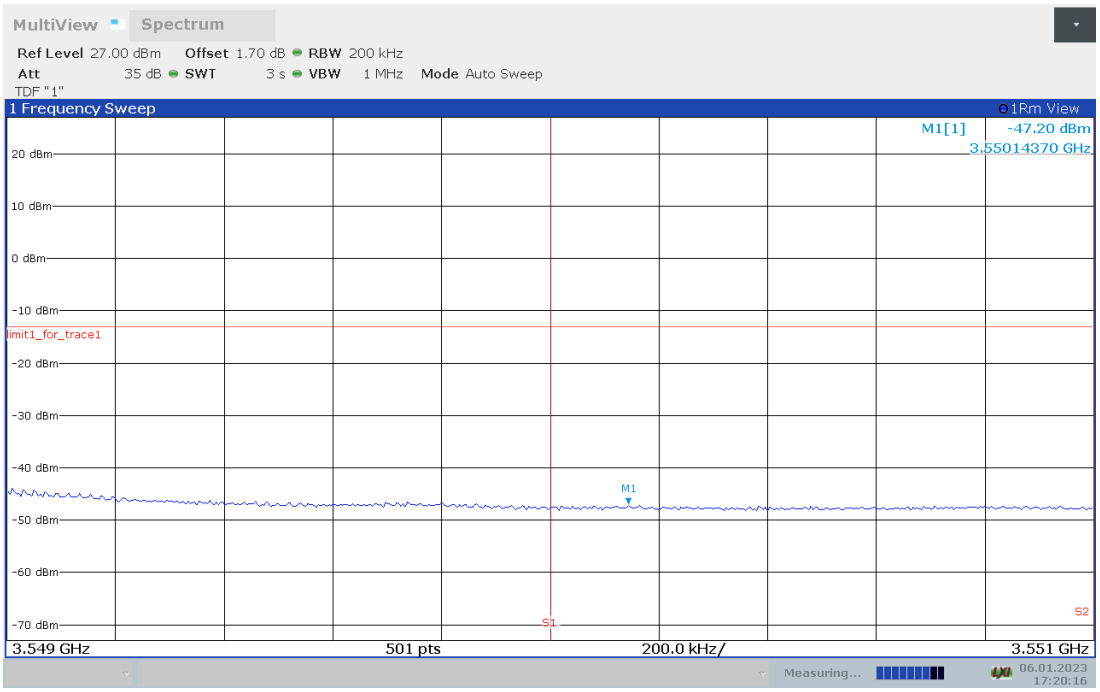
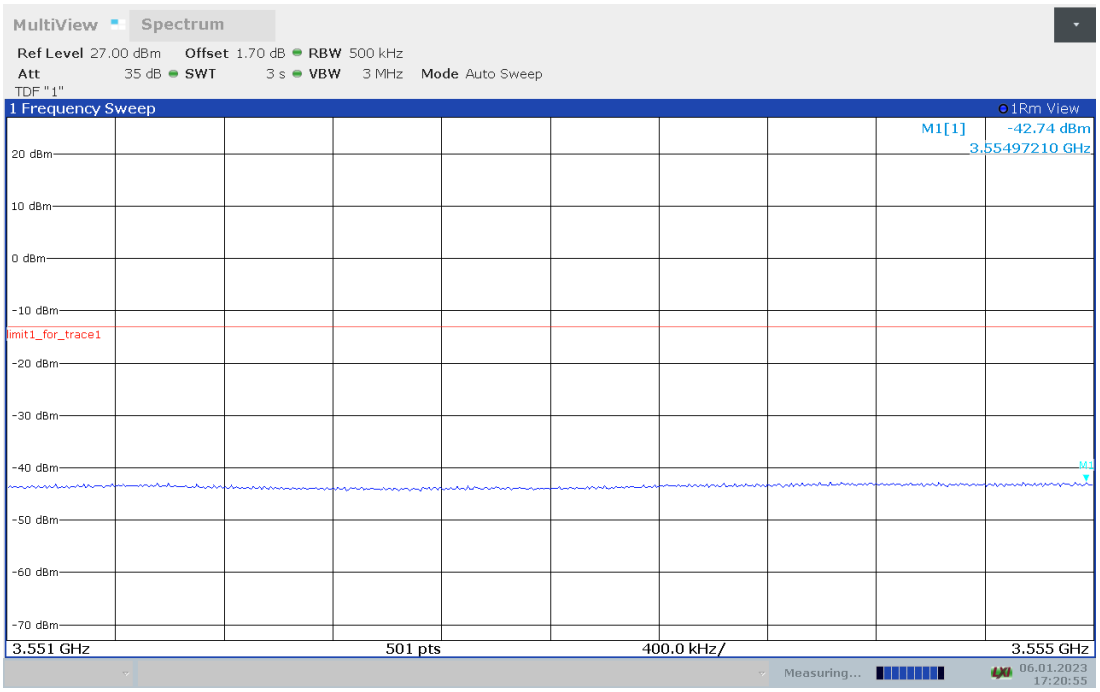
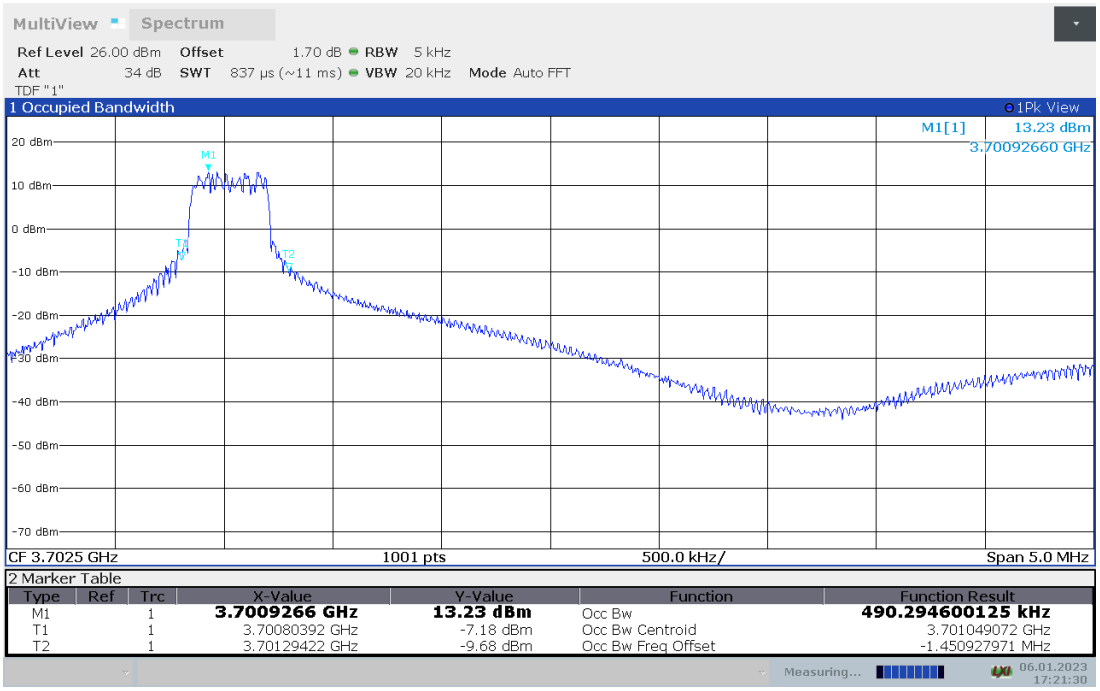


HIGH BAND EDGE BLOCK-100M-100%RB



n78H

OBW: 1RB-LOW_offset



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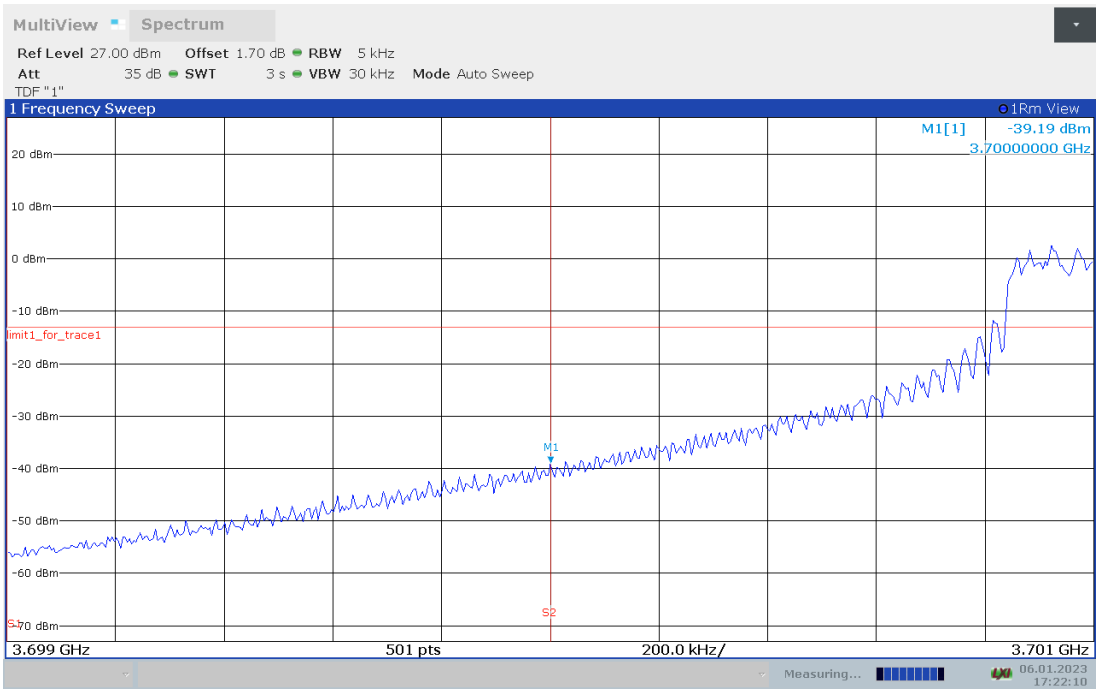

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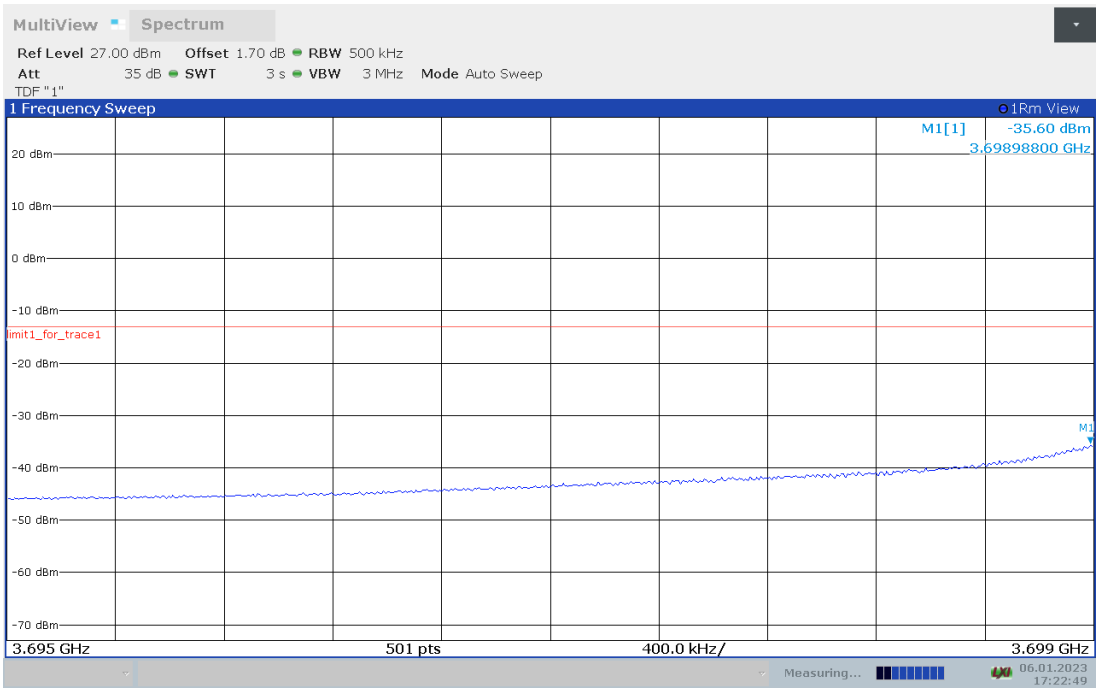

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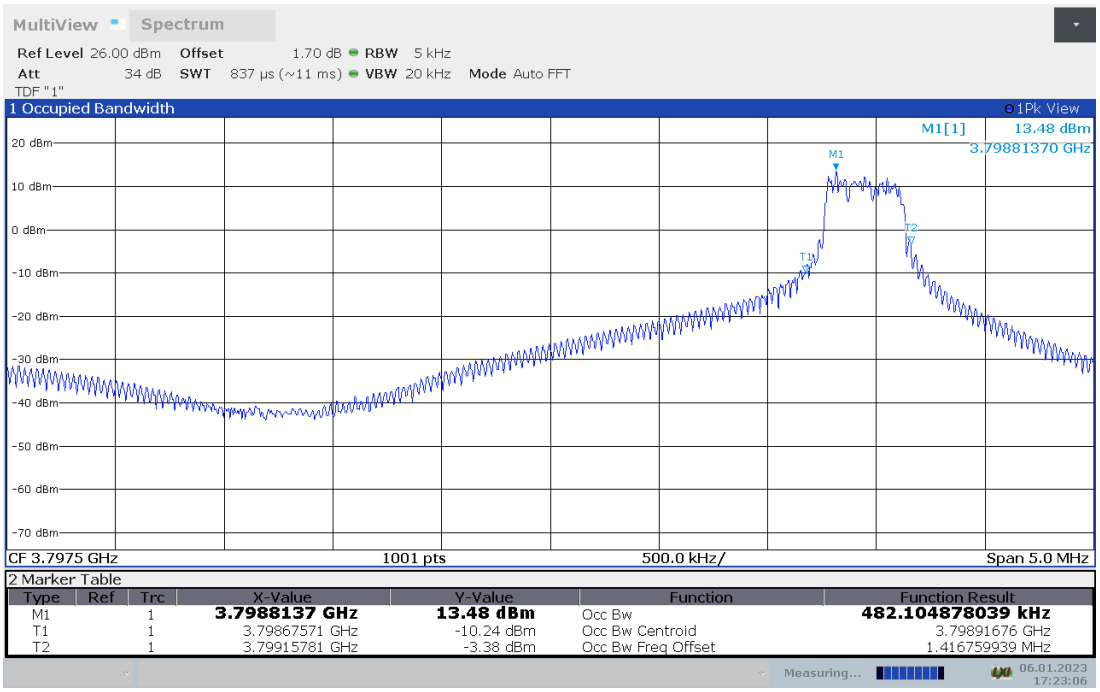
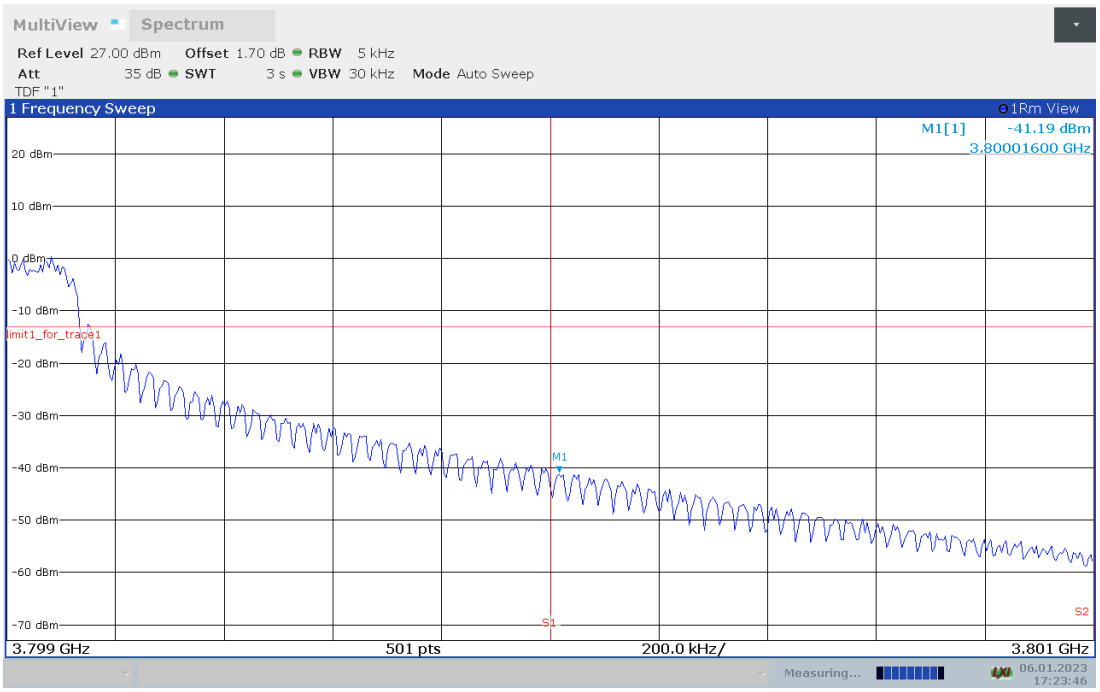
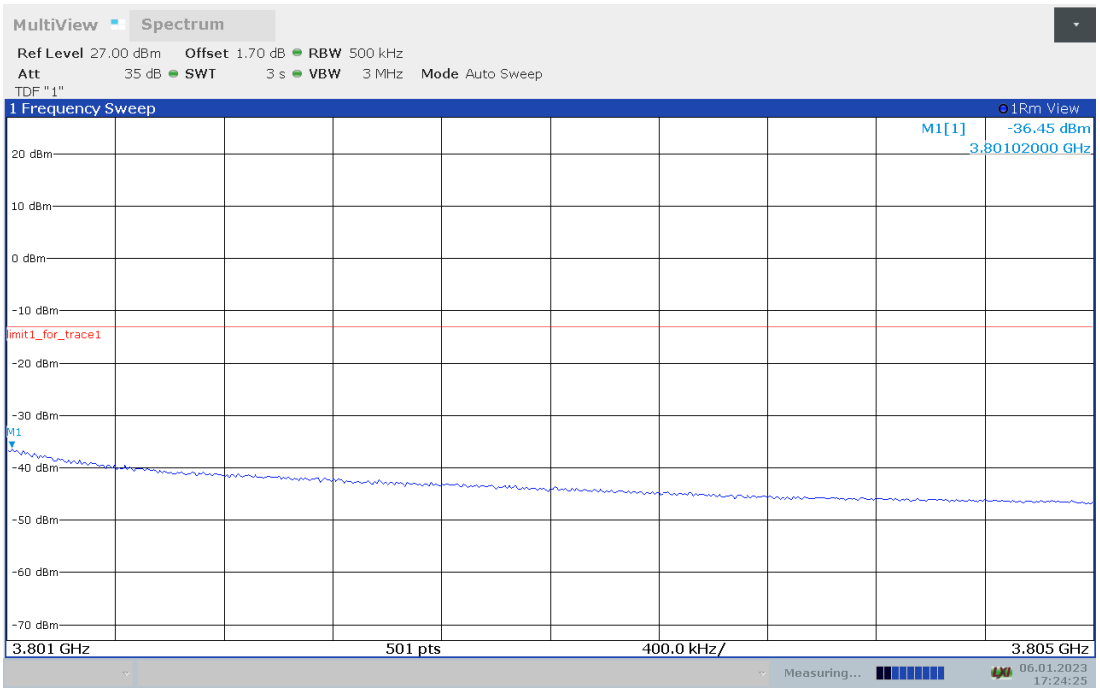


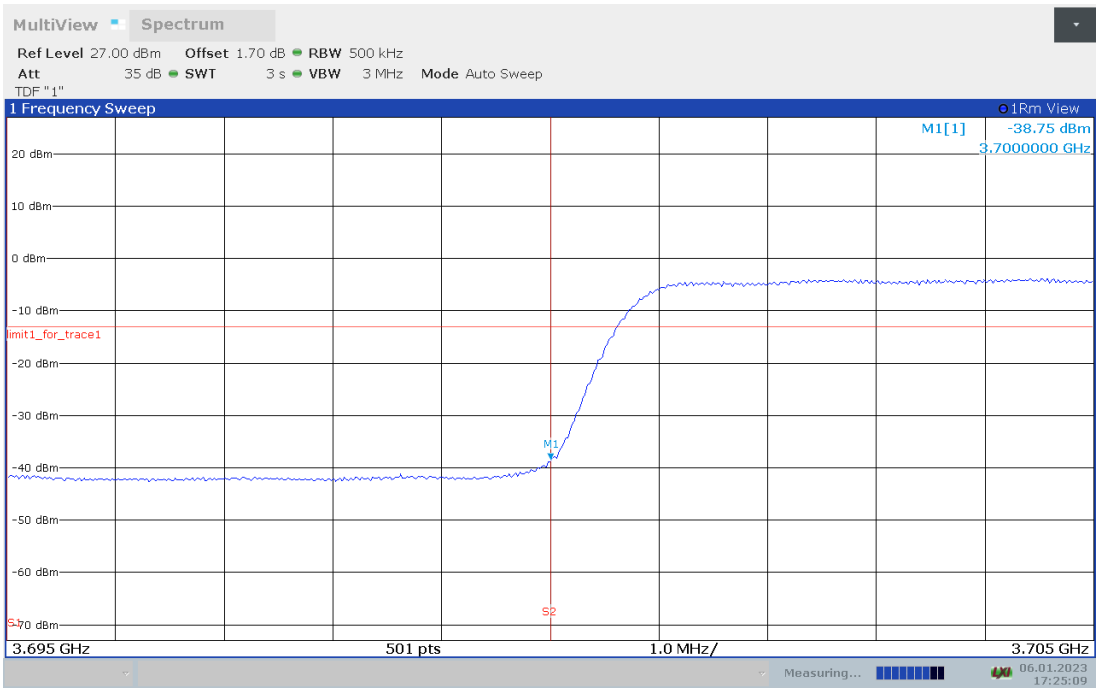
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



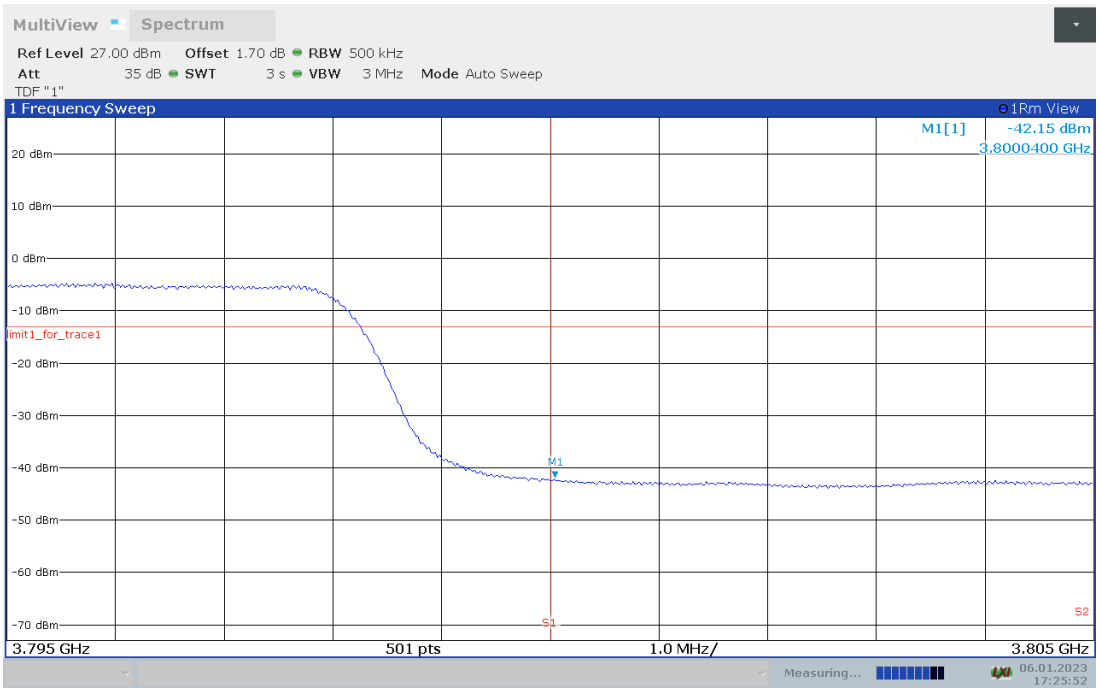
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-100M-100%RB



HIGH BAND EDGE BLOCK-100M-100%RB



A.6 CONDUCTED SPURIOUS EMISSION

A.6.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
   a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
   b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is greater than 2×span/RBW

A. 6.2 Measurement Limit

Part 22.917,Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10 log(P) dB.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40+ 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43+10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55+10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43+10log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55+10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 +10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee’s frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43+10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee’s frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(n) states for base station operations in the 3450-3550 MHz band, the conducted power