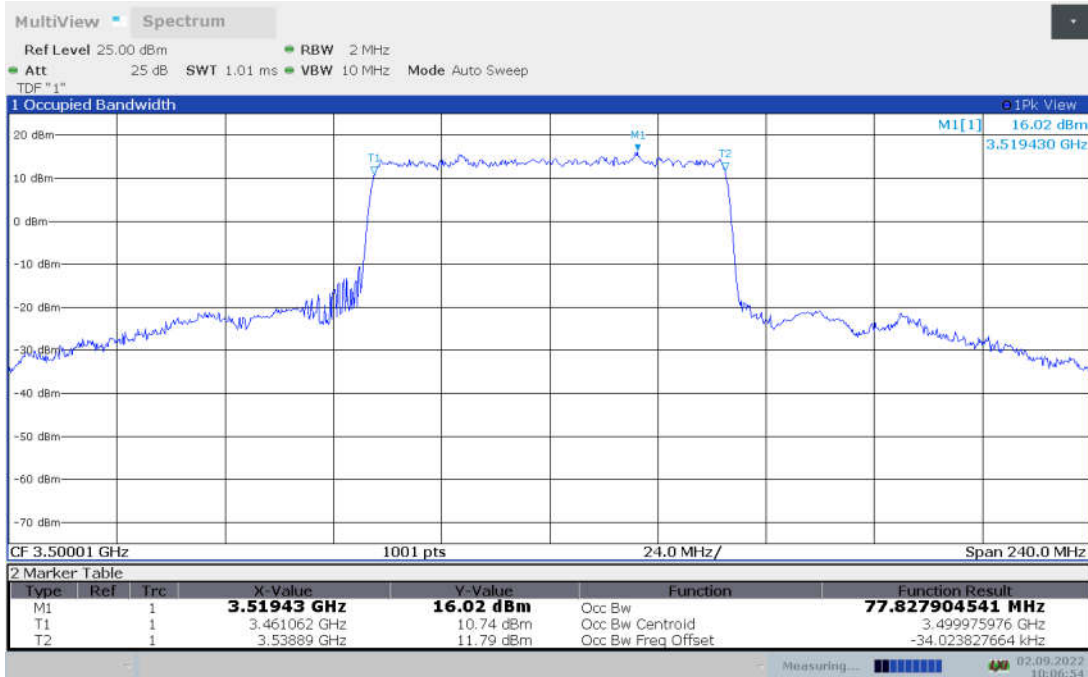


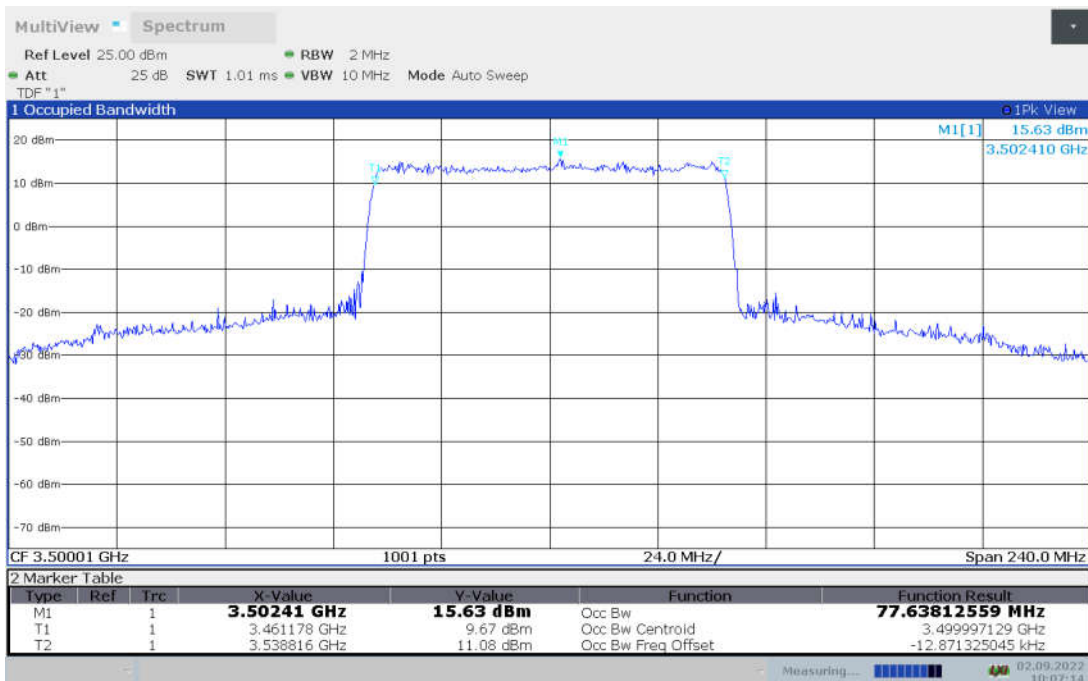
DC\_2A\_n78A(3450 MHz-3550 MHz),80MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	77.828	77.638

DC\_2A\_n78A(3450 MHz-3550 MHz),80MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



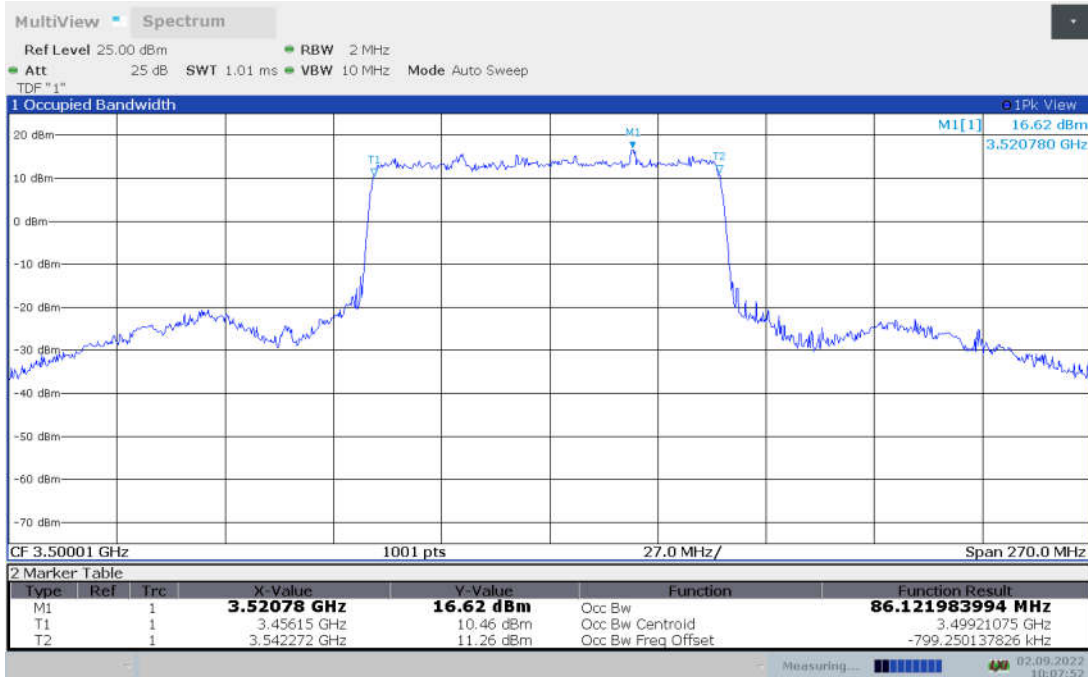
DC\_2A\_n78A(3450 MHz-3550 MHz),80MHz Bandwidth,DFT-s-QPSK (99% BW)



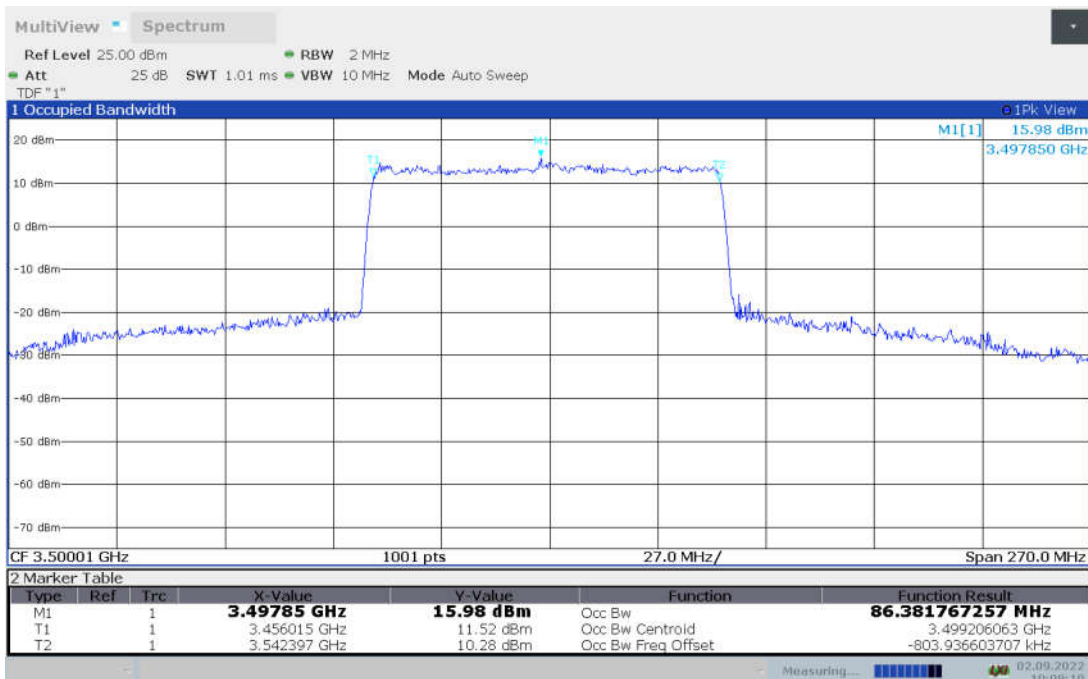
**DC\_2A\_n78A(3450 MHz-3550 MHz),90MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	86.122	86.382

**DC\_2A\_n78A(3450 MHz-3550 MHz),90MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)**



**DC\_2A\_n78A(3450 MHz-3550 MHz),90MHz Bandwidth,DFT-s-QPSK (99% BW)**

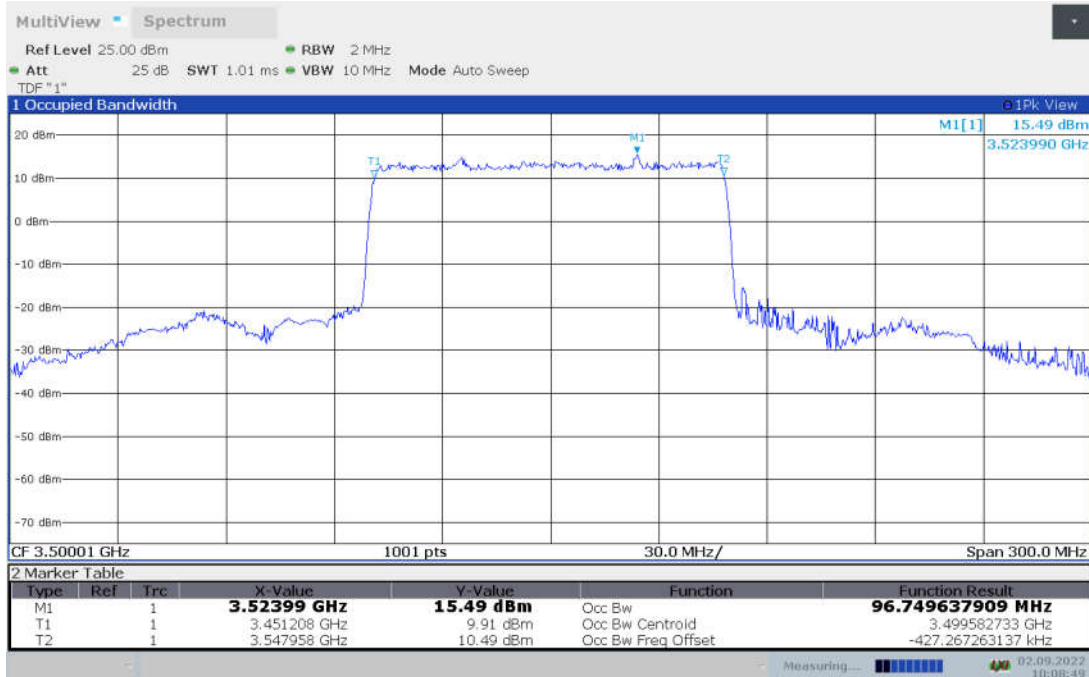




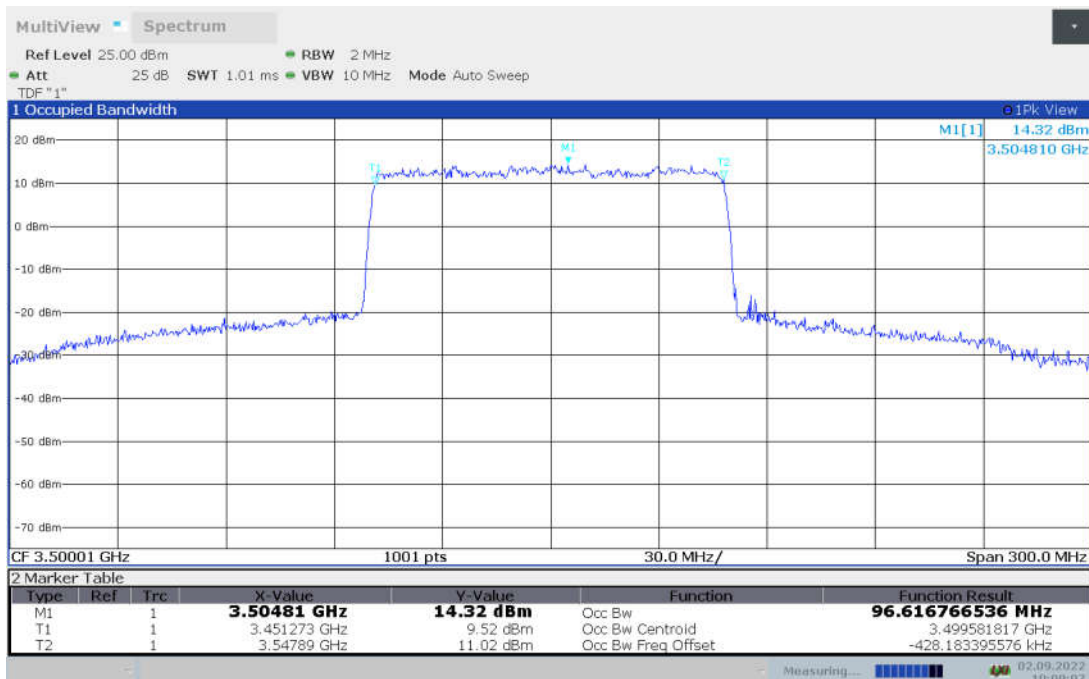
DC\_2A\_n78A(3450 MHz-3550 MHz),100MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	96.750	96.617

DC\_2A\_n78A(3450 MHz-3550 MHz),100MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



DC\_2A\_n78A(3450 MHz-3550 MHz),100MHz Bandwidth,DFT-s-QPSK (99% BW)



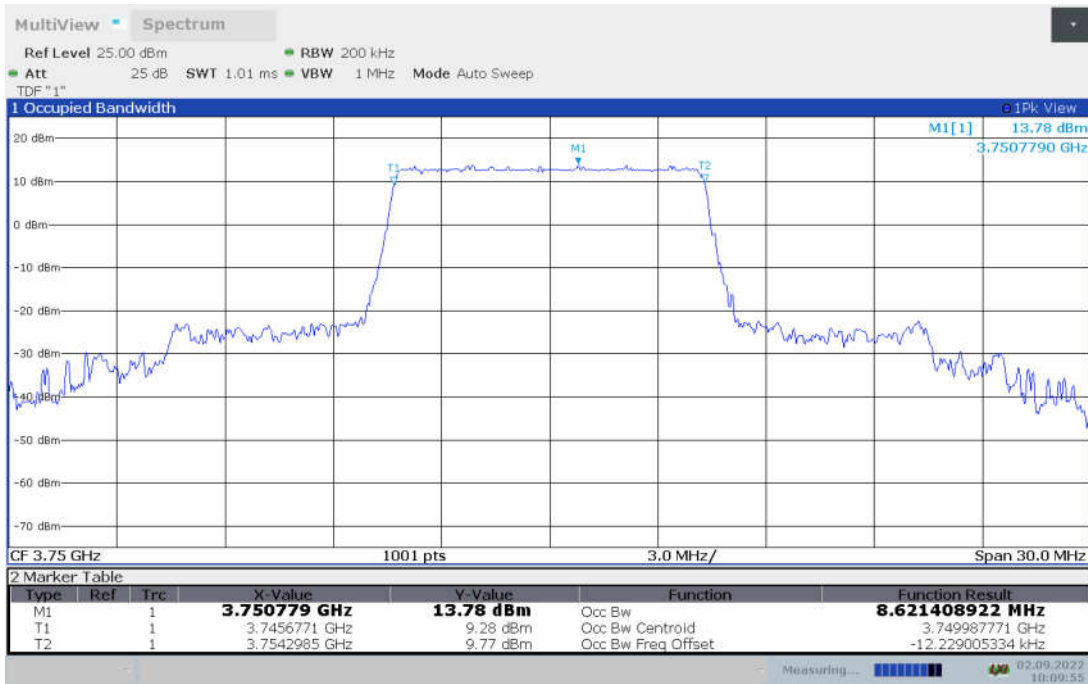


DC\_2A\_n78A(3700 MHz-3800 MHz)

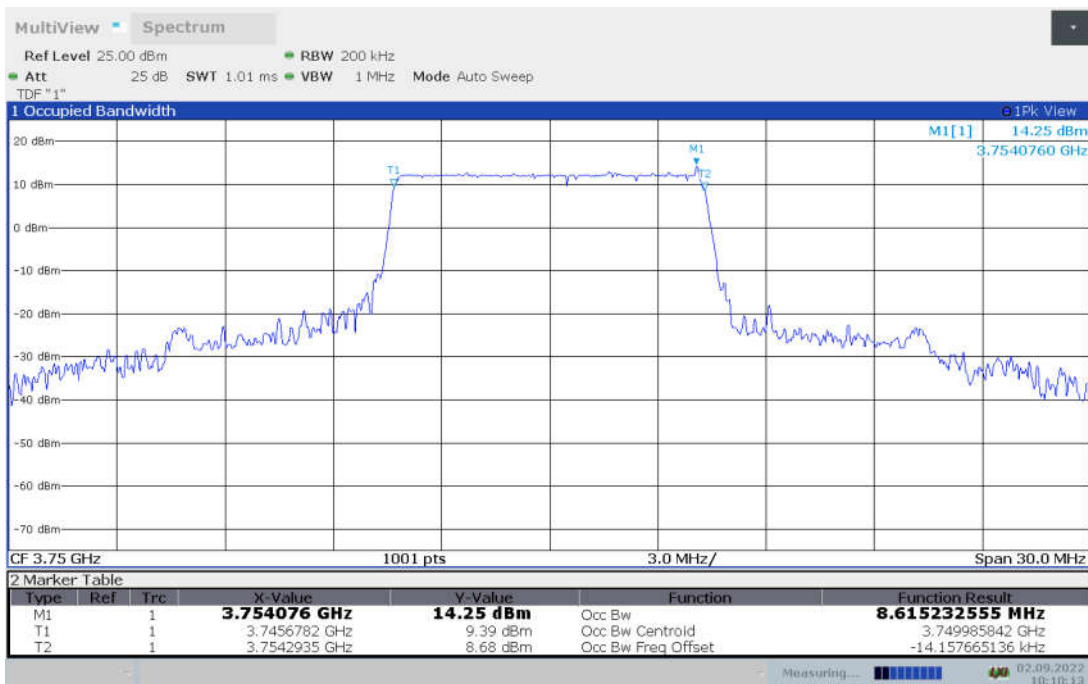
DC\_2A\_n78A(3700 MHz-3800 MHz),10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	8.621	8.615

DC\_2A\_n78A(3700 MHz-3800 MHz),10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



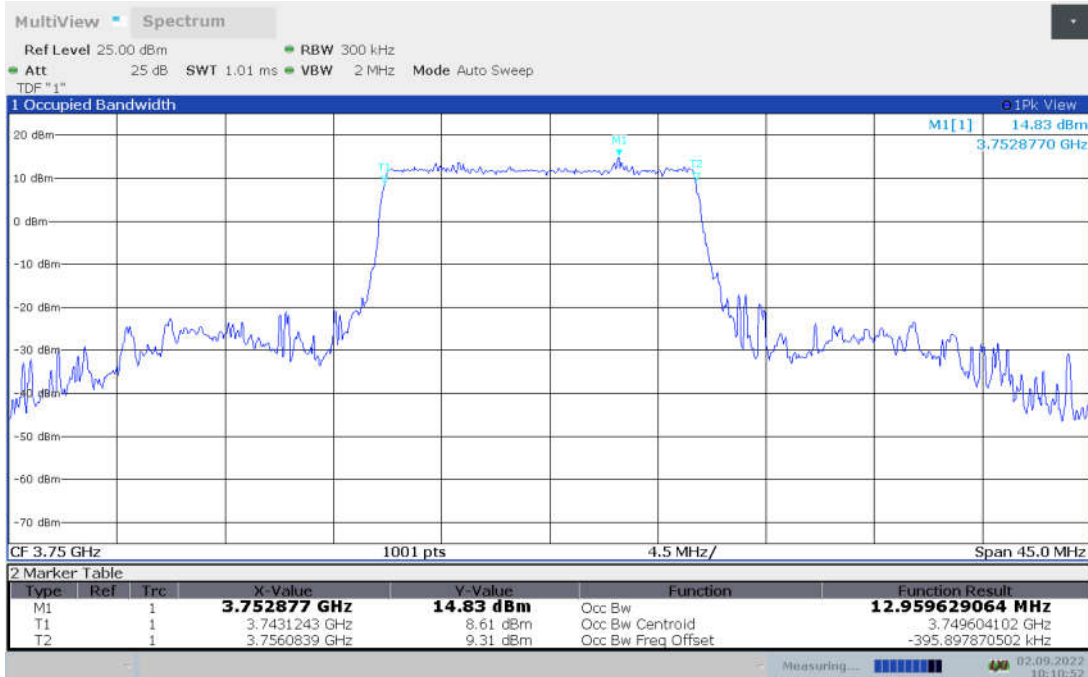
DC\_2A\_n78A(3700 MHz-3800 MHz),10MHz Bandwidth,DFT-s-QPSK (99% BW)



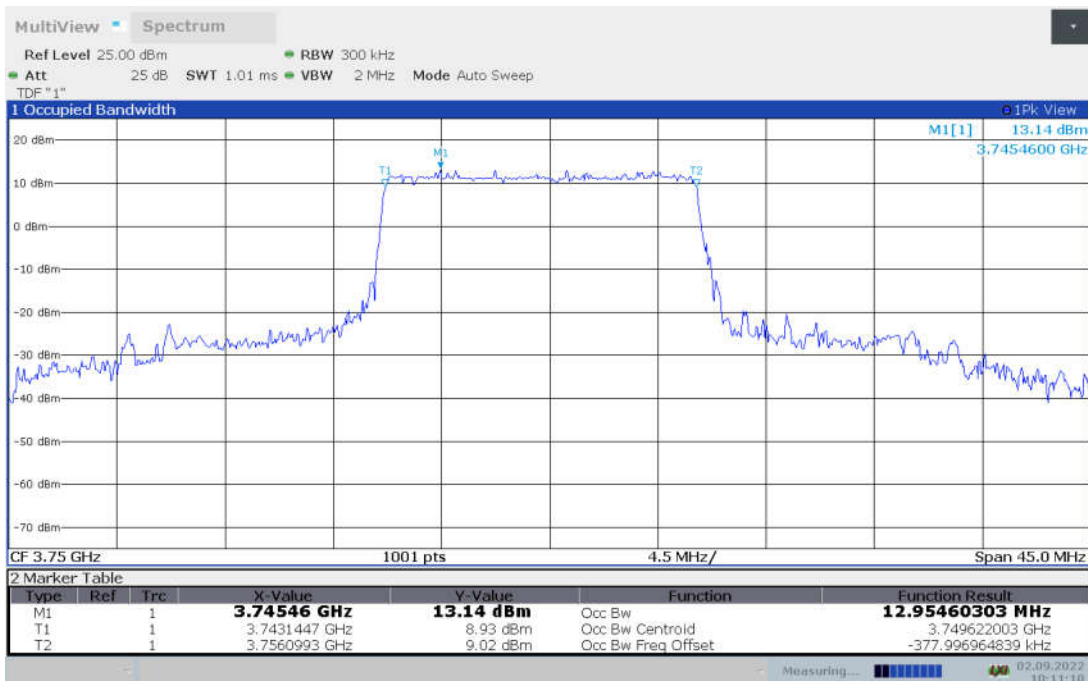
**DC\_2A\_n78A(3700 MHz-3800 MHz),15MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	12.960	12.955

**DC\_2A\_n78A(3700 MHz-3800 MHz),15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)**



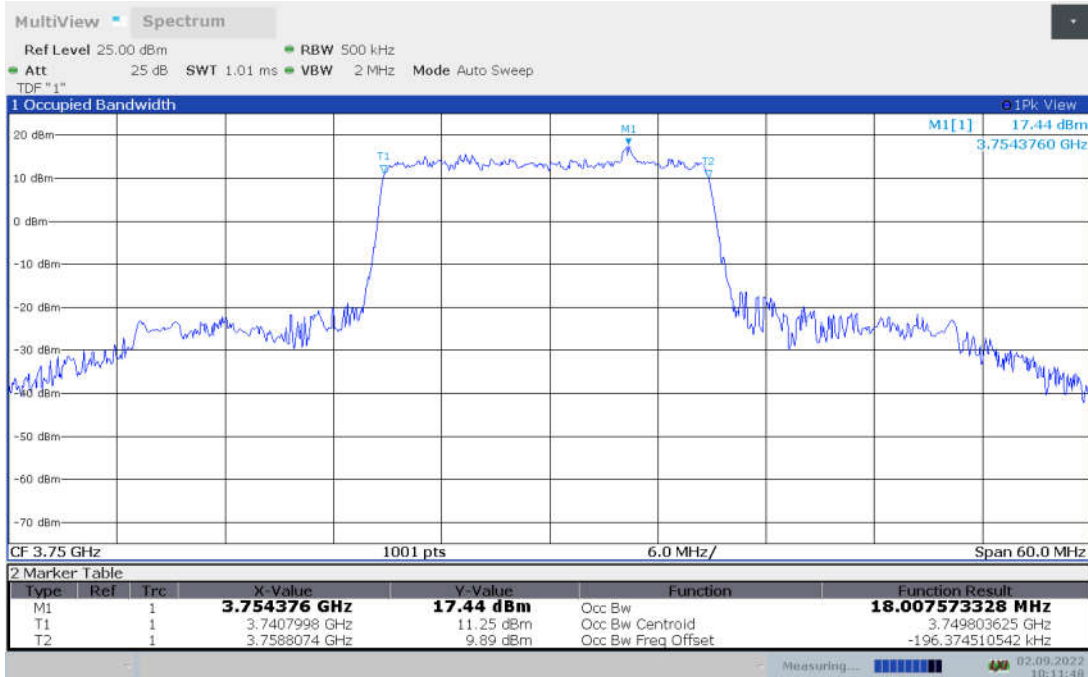
**DC\_2A\_n78A(3700 MHz-3800 MHz),15MHz Bandwidth,DFT-s-QPSK (99% BW)**



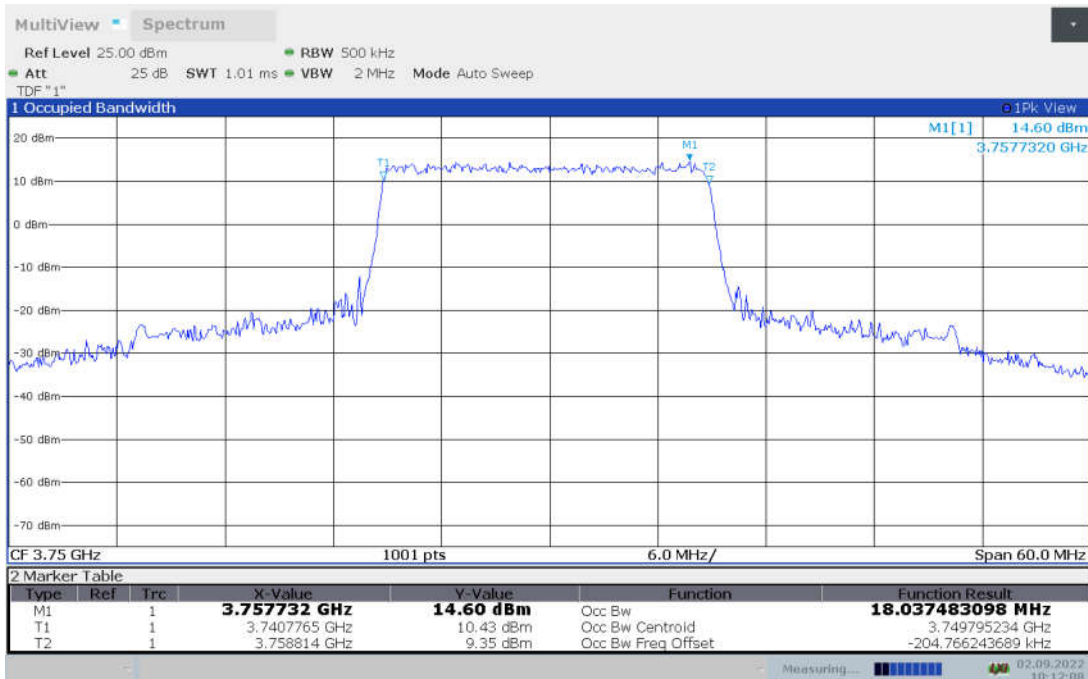
DC\_2A\_n78A(3700 MHz-3800 MHz),20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	18.008	18.037

DC\_2A\_n78A(3700 MHz-3800 MHz),20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



DC\_2A\_n78A(3700 MHz-3800 MHz),20MHz Bandwidth,DFT-s-QPSK (99% BW)

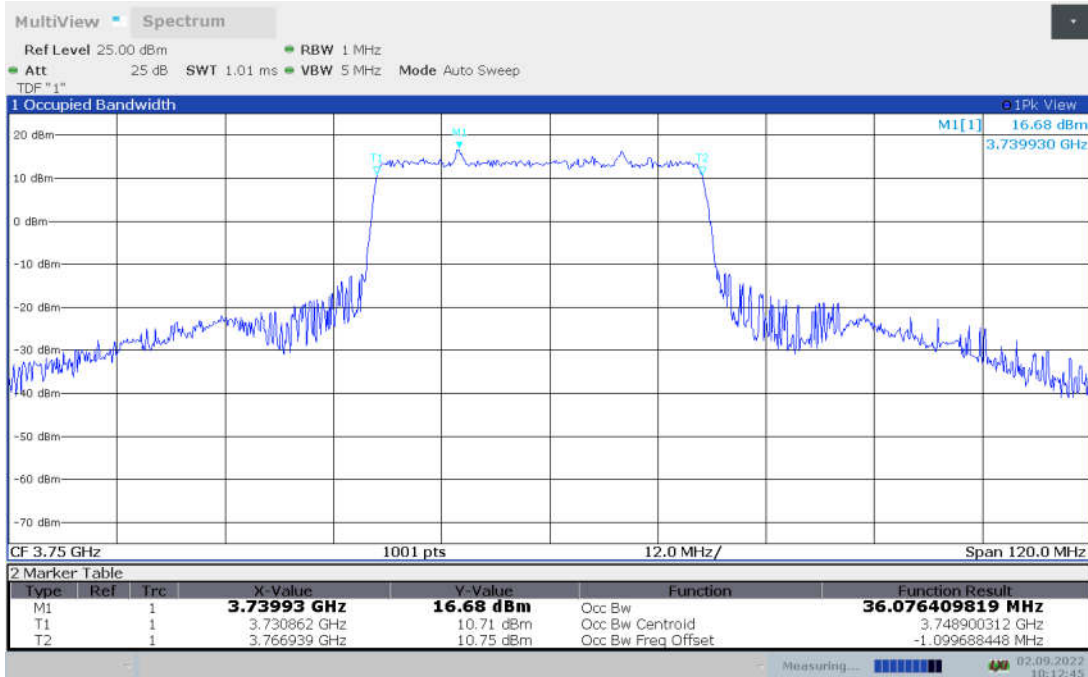




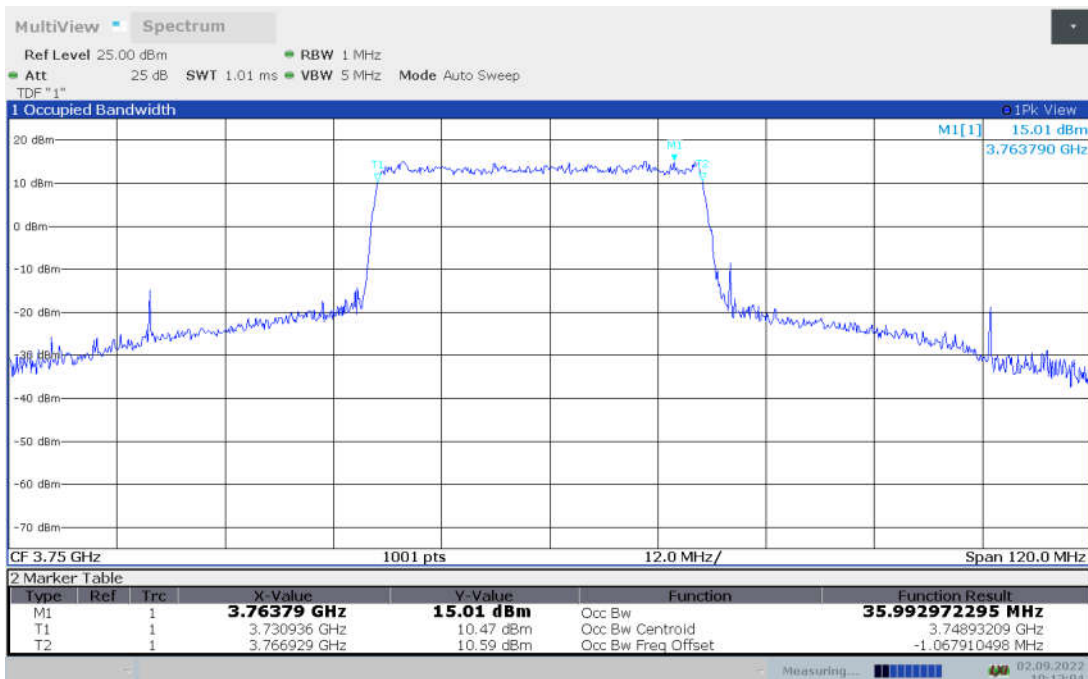
DC\_2A\_n78A(3700 MHz-3800 MHz),40MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	36.076	35.993

DC\_2A\_n78A(3700 MHz-3800 MHz),40MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



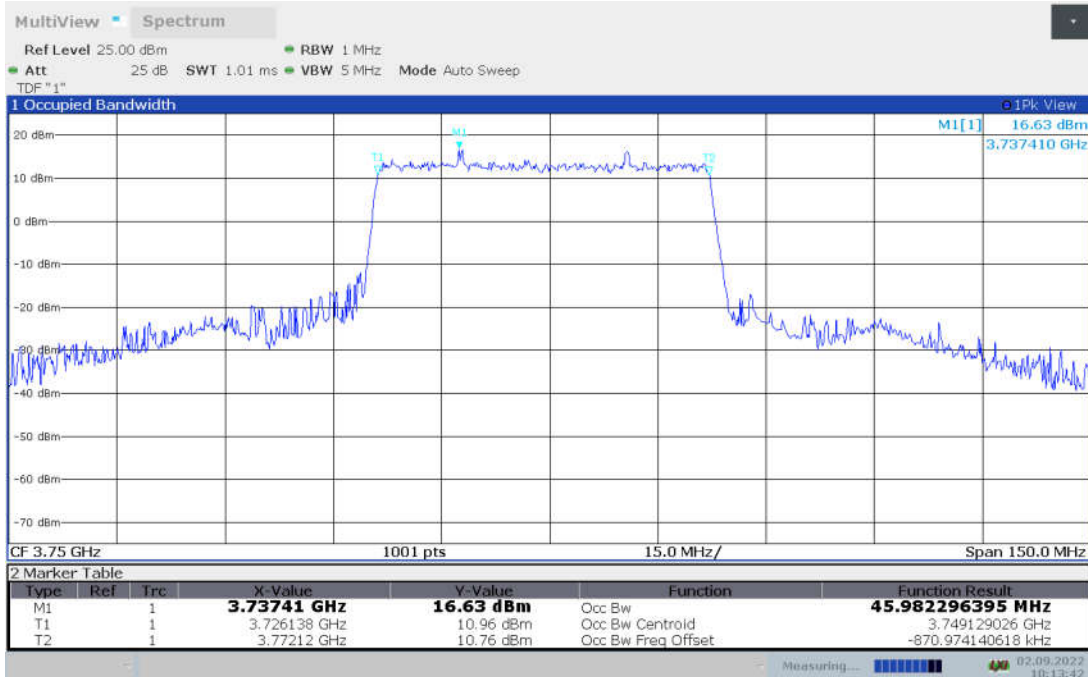
DC\_2A\_n78A(3700 MHz-3800 MHz),40MHz Bandwidth,DFT-s-QPSK (99% BW)



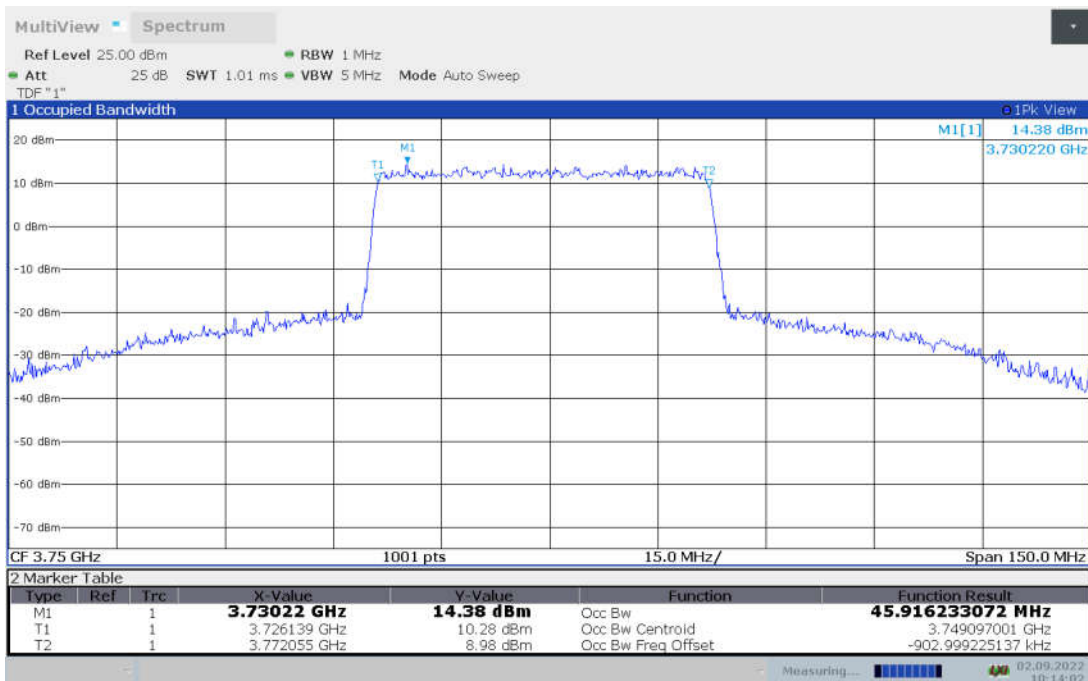
**DC\_2A\_n78A(3700 MHz-3800 MHz),50MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	45.982	45.916

**DC\_2A\_n78A(3700 MHz-3800 MHz),50MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)**



**DC\_2A\_n78A(3700 MHz-3800 MHz),50MHz Bandwidth,DFT-s-QPSK (99% BW)**

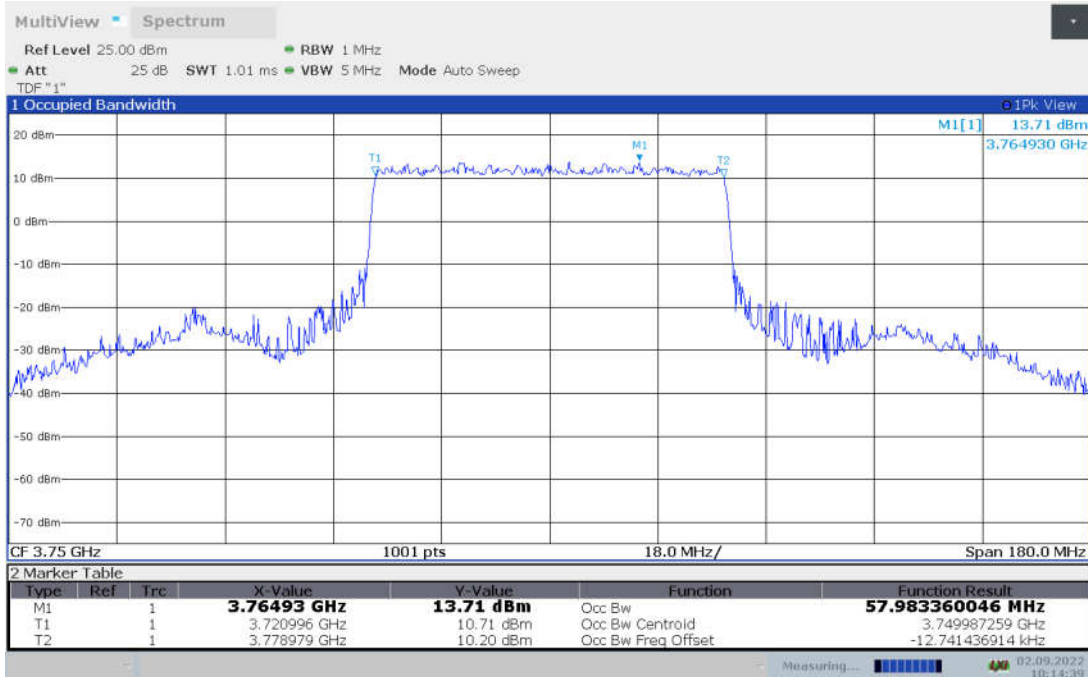




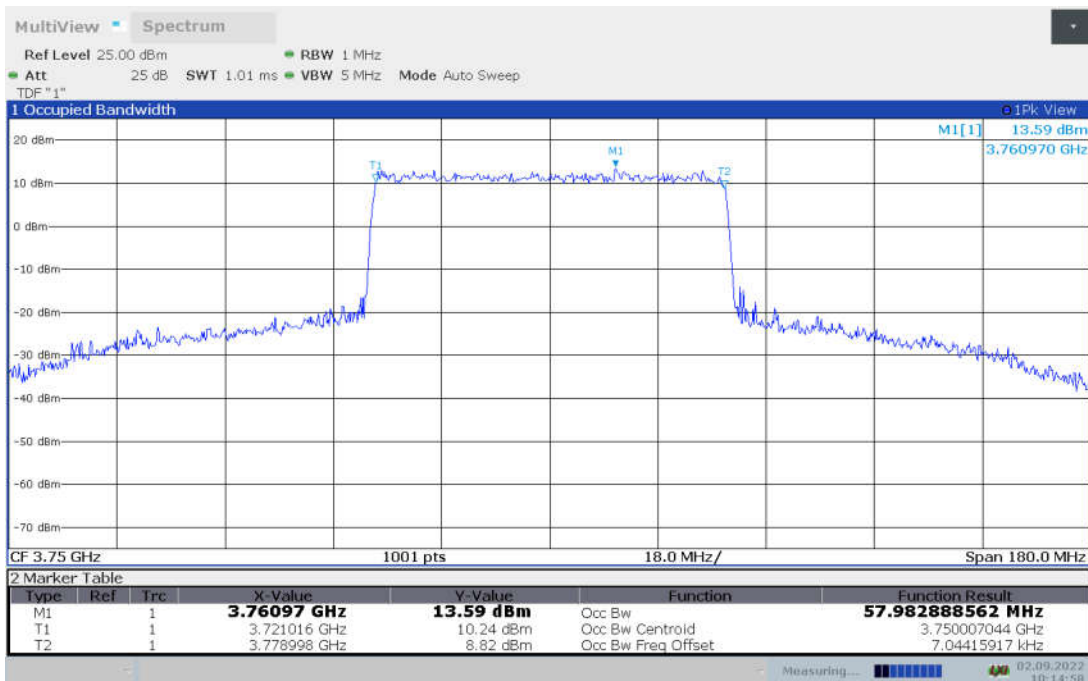
DC\_2A\_n78A(3700 MHz-3800 MHz),60MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	57.983	57.983

DC\_2A\_n78A(3700 MHz-3800 MHz),60MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



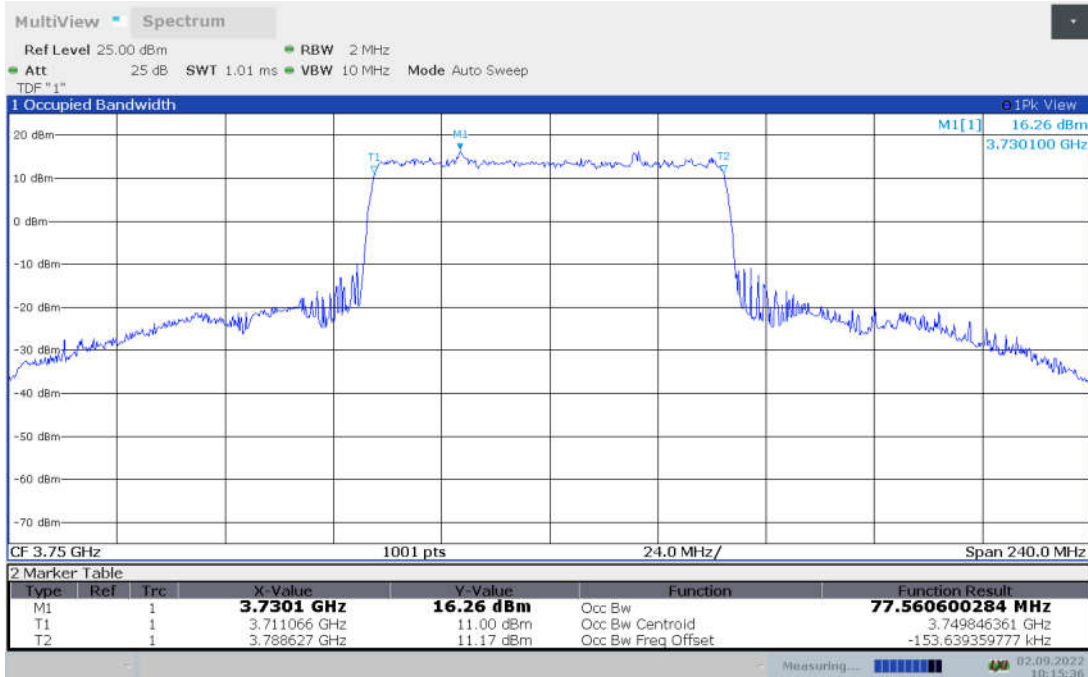
DC\_2A\_n78A(3700 MHz-3800 MHz),60MHz Bandwidth,DFT-s-QPSK (99% BW)



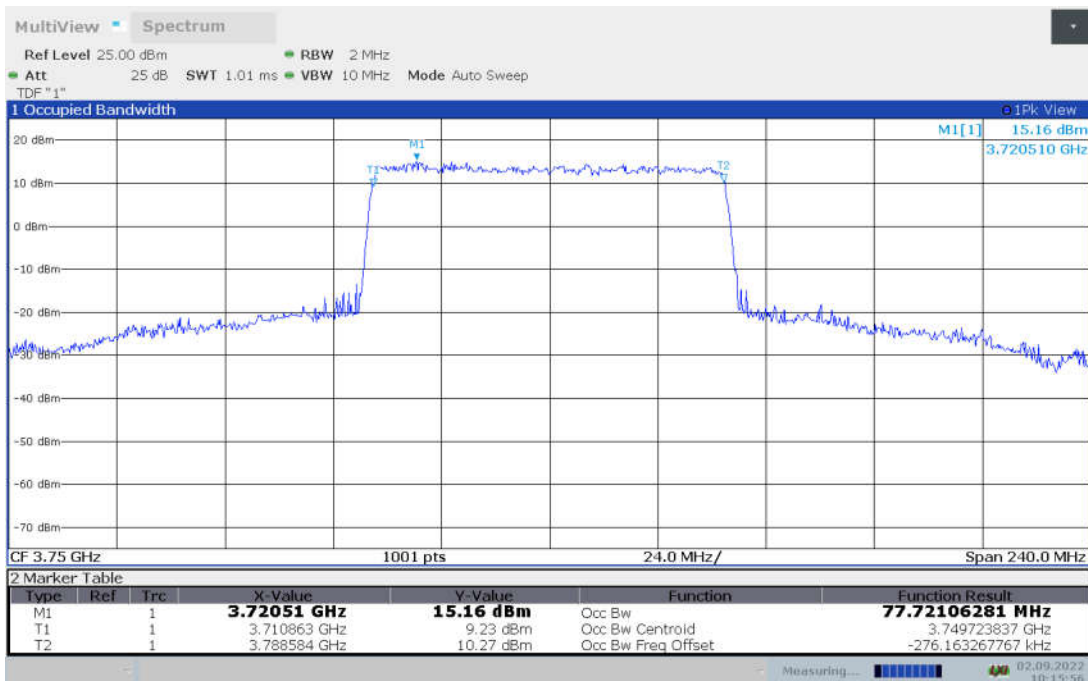
**DC\_2A\_n78A(3700 MHz-3800 MHz),80MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	77.561	77.721

**DC\_2A\_n78A(3700 MHz-3800 MHz),80MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)**



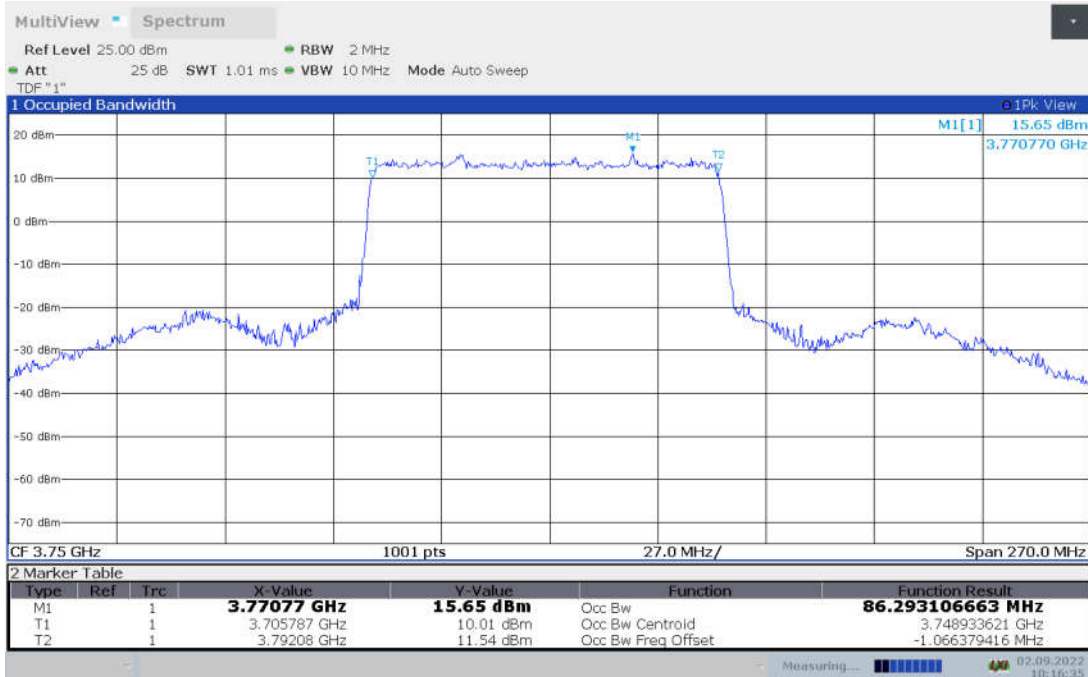
**DC\_2A\_n78A(3700 MHz-3800 MHz),80MHz Bandwidth,DFT-s-QPSK (99% BW)**



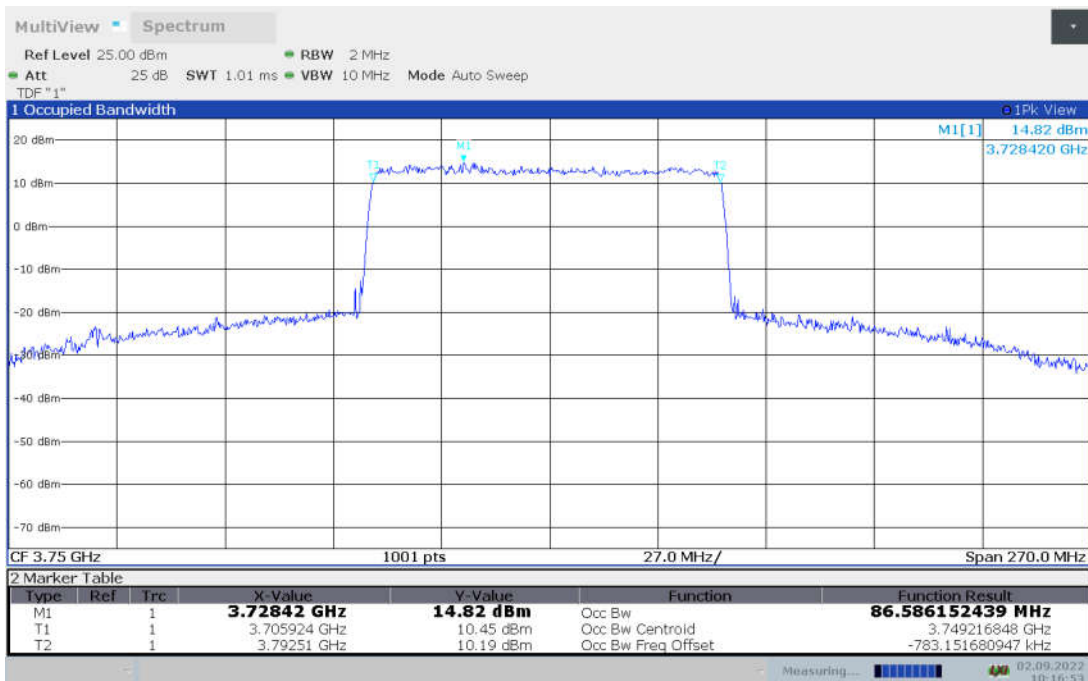
**DC\_2A\_n78A(3700 MHz-3800 MHz),90MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	86.293	86.586

**DC\_2A\_n78A(3700 MHz-3800 MHz),90MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)**



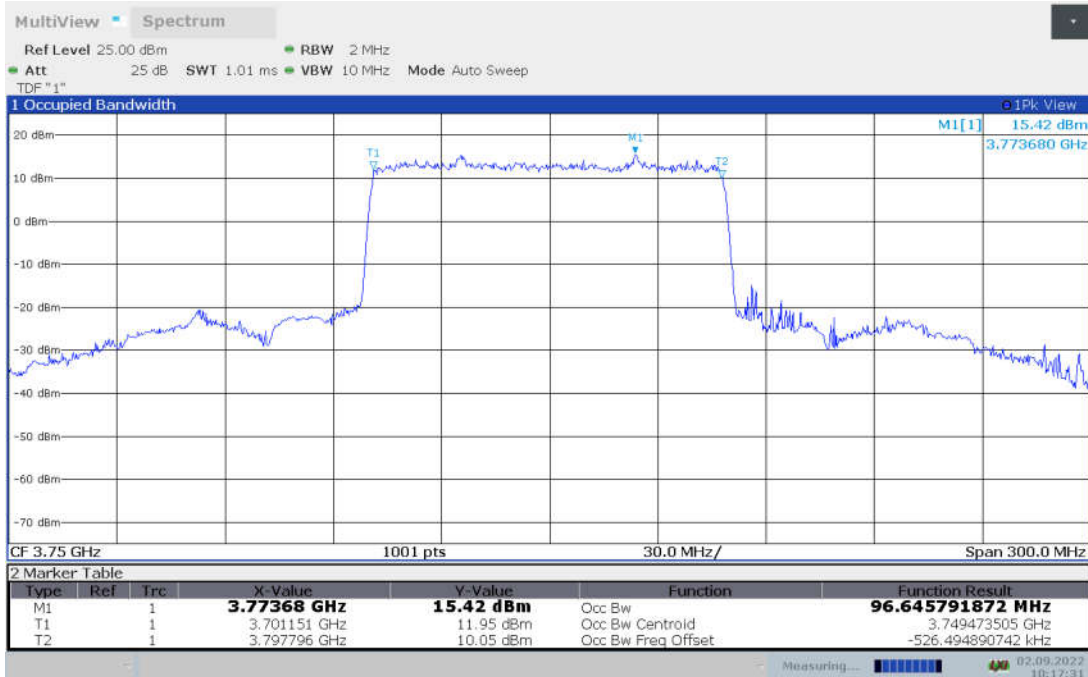
**DC\_2A\_n78A(3700 MHz-3800 MHz),90MHz Bandwidth,DFT-s-QPSK (99% BW)**



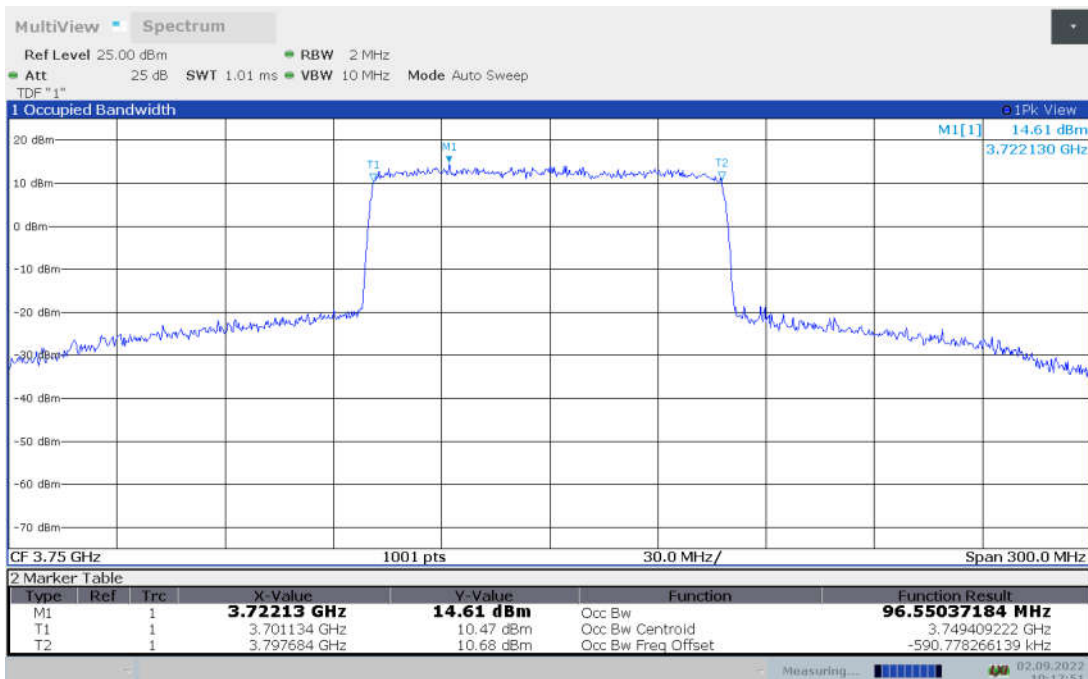
**DC\_2A\_n78A(3700 MHz-3800 MHz),100MHz(99%)**

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	96.646	96.550

**DC\_2A\_n78A(3700 MHz-3800 MHz),100MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)**



**DC\_2A\_n78A(3700 MHz-3800 MHz),100MHz Bandwidth,DFT-s-QPSK (99% BW)**



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

## A.5 EMISSION BANDWIDTH

### Reference

FCC: CFR Part 2.1049, 22.917, 24.238, 27.53.

### A.5.1 Measurement Procedure

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.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth 3 dB (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least  $10\log(\text{OBW} / \text{RBW})$  below the reference level.
- d) Set the detection mode to peak, and the trace mode to max hold.
- e) Use the 26dB bandwidth function of the spectrum analyzer and report the measured bandwidth.

### A.5.2 Emission Bandwidth Results

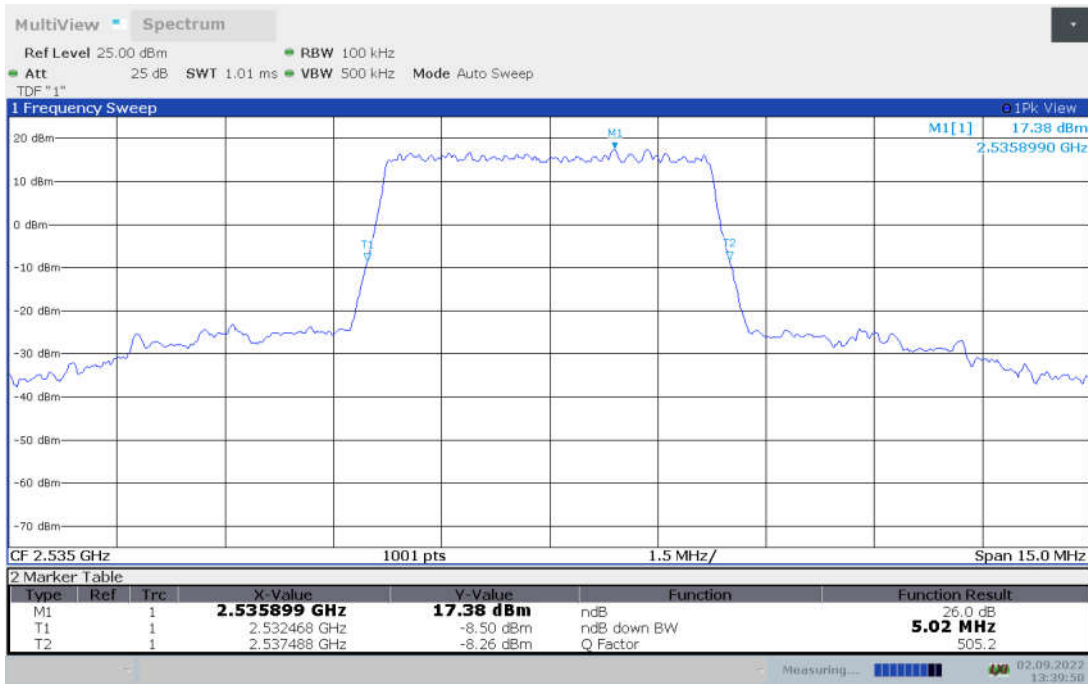
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

DC\_2A\_n7A

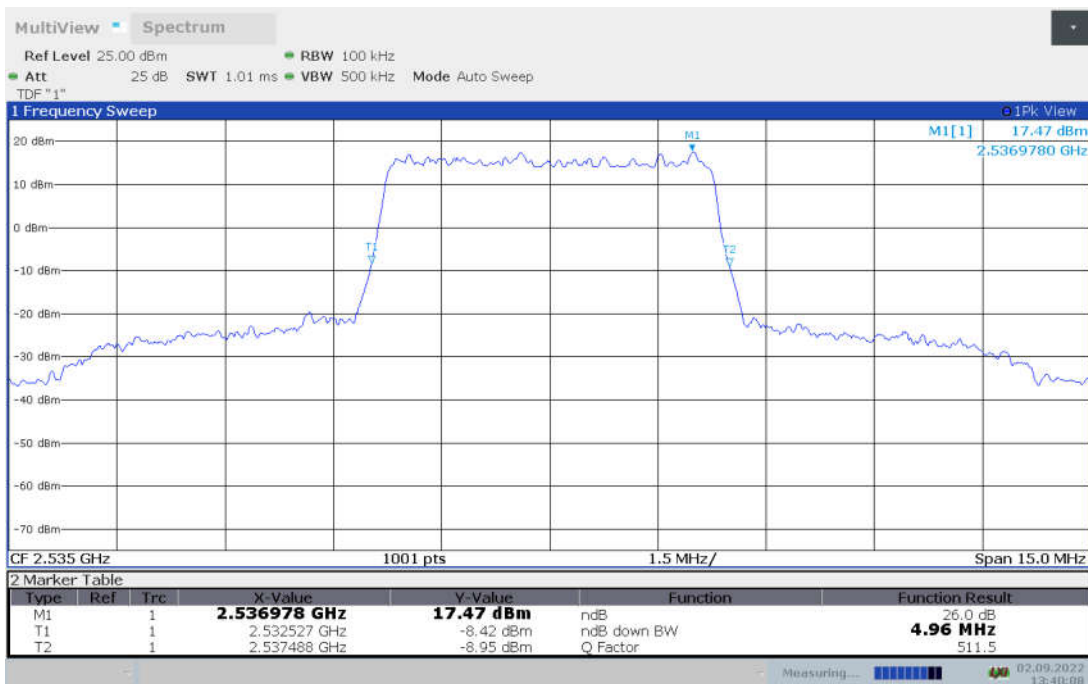
DC\_2A\_n7A,5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	5.02	4.96

DC\_2A\_n7A,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



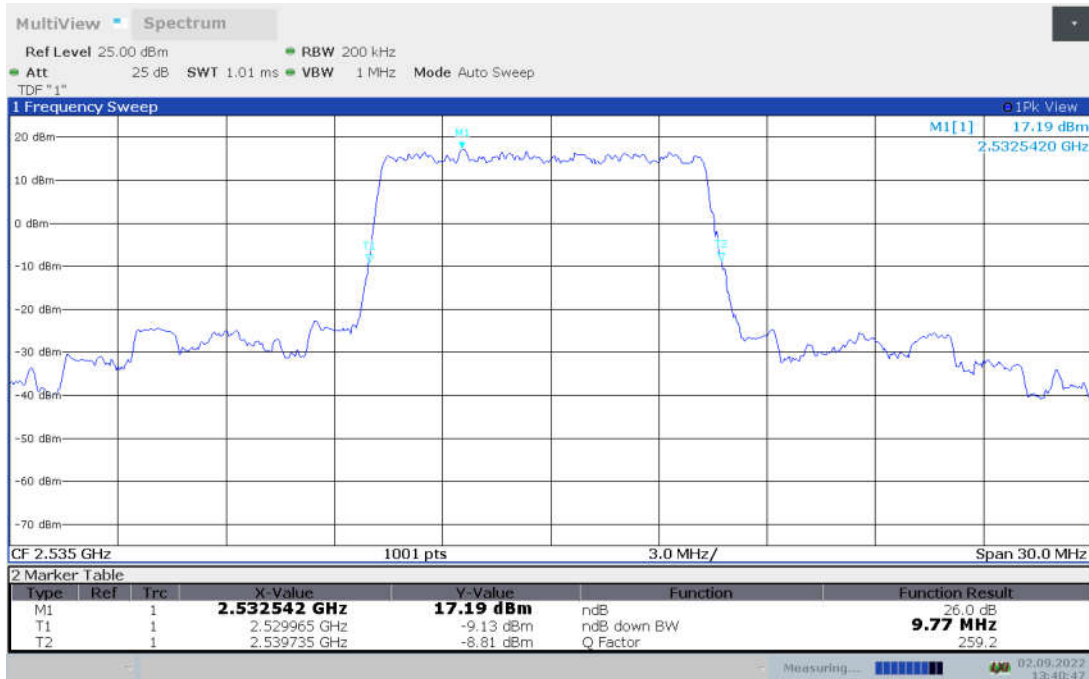
DC\_2A\_n7A,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



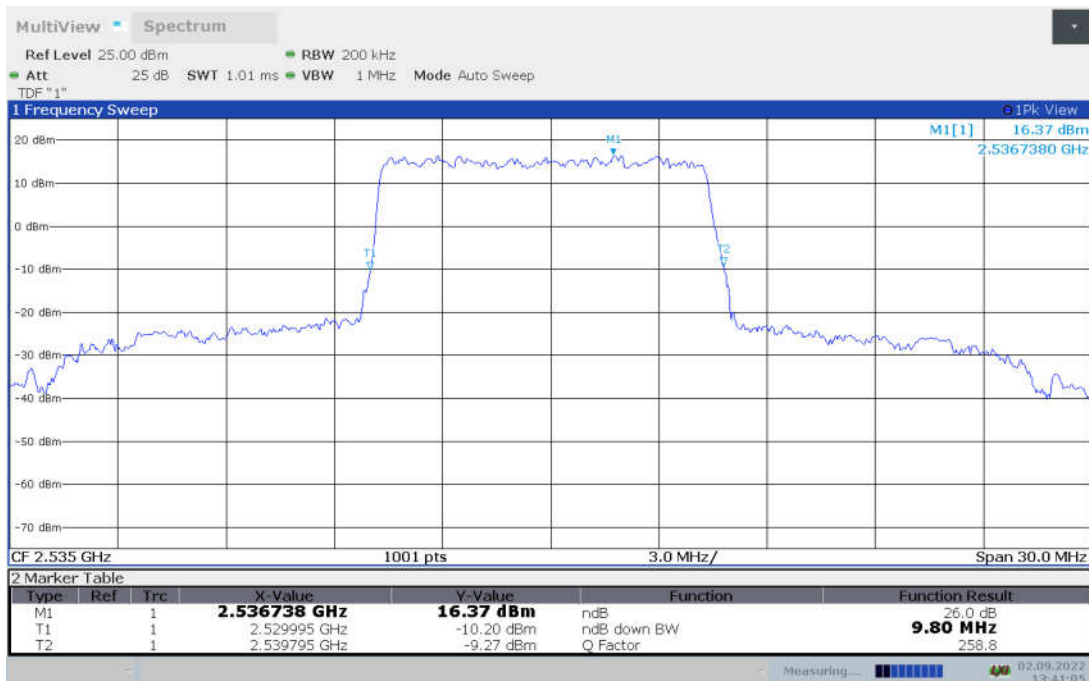
**DC\_2A\_n7A,10MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	9.77	9.80

**DC\_2A\_n7A,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



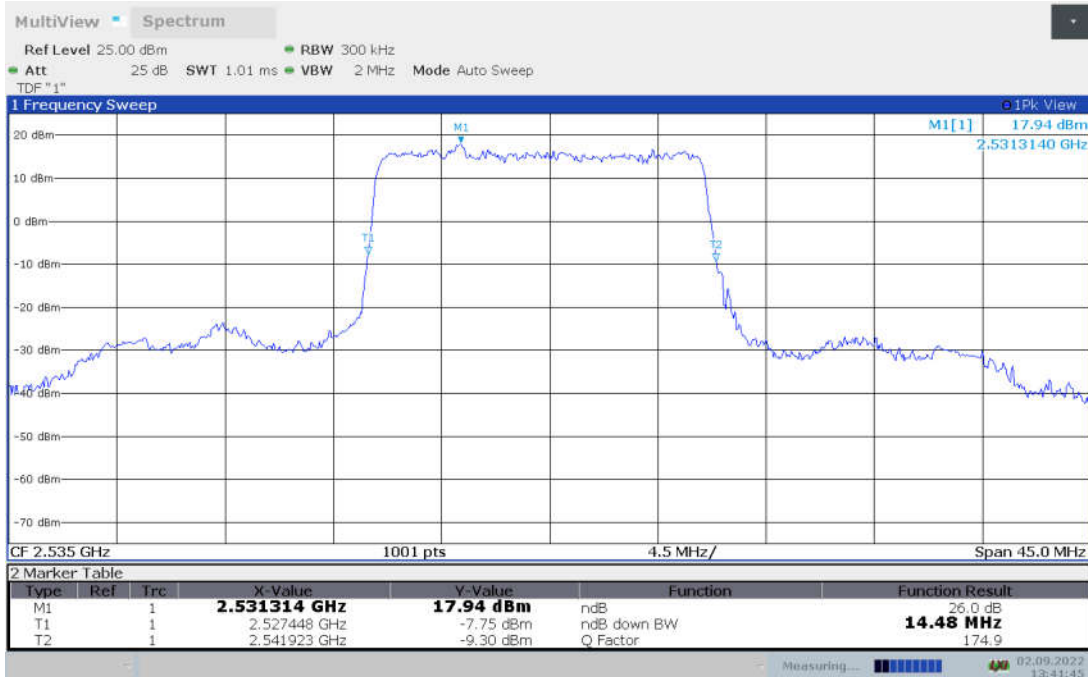
**DC\_2A\_n7A,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



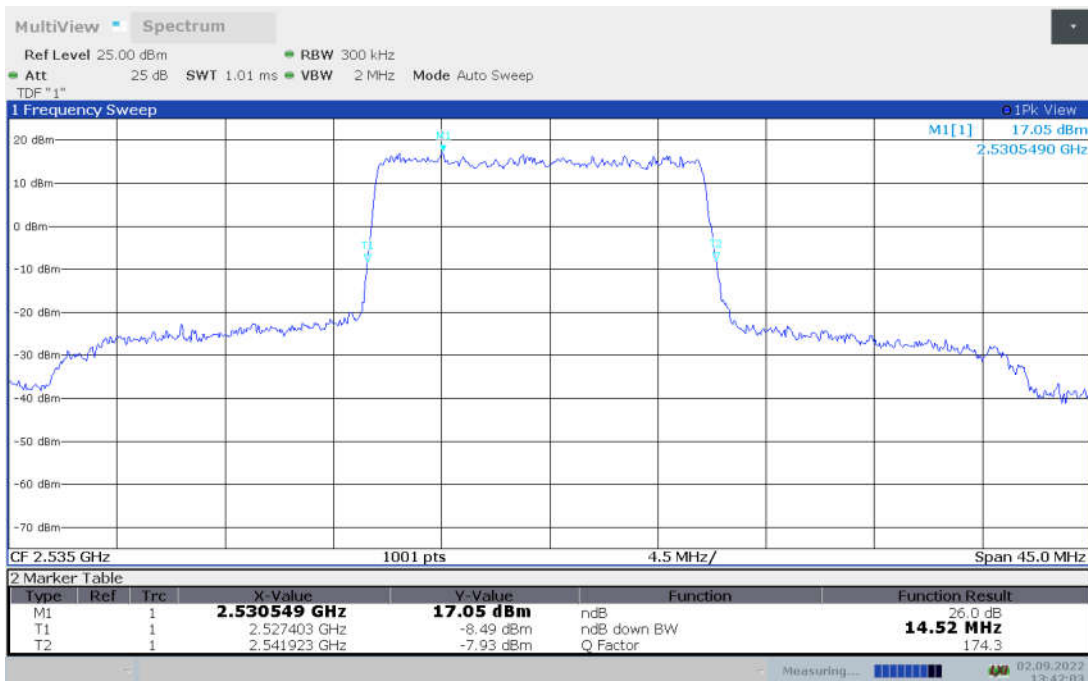
**DC\_2A\_n7A,15MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	14.48	14.52

**DC\_2A\_n7A,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



**DC\_2A\_n7A,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**

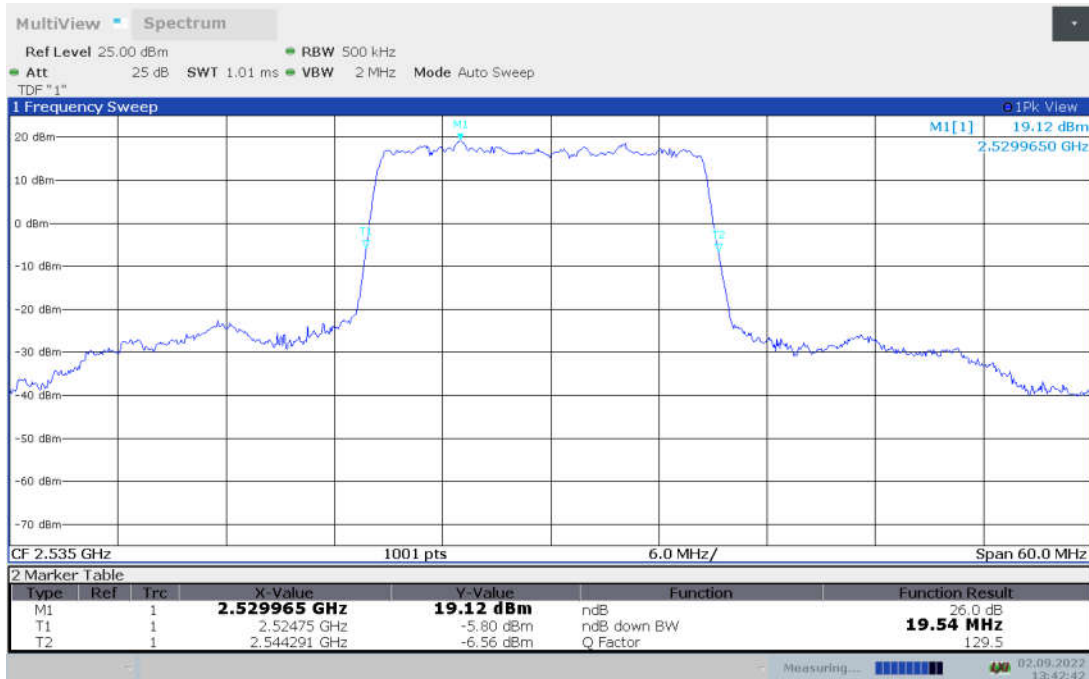




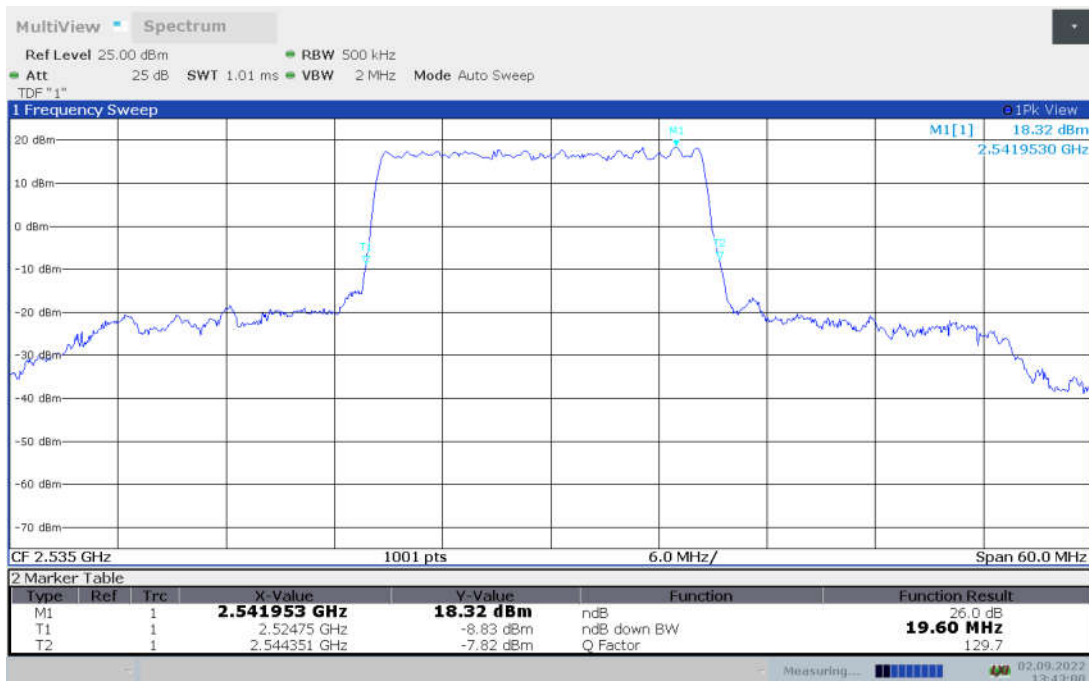
**DC\_2A\_n7A,20MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	19.54	19.60

**DC\_2A\_n7A,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



**DC\_2A\_n7A,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**

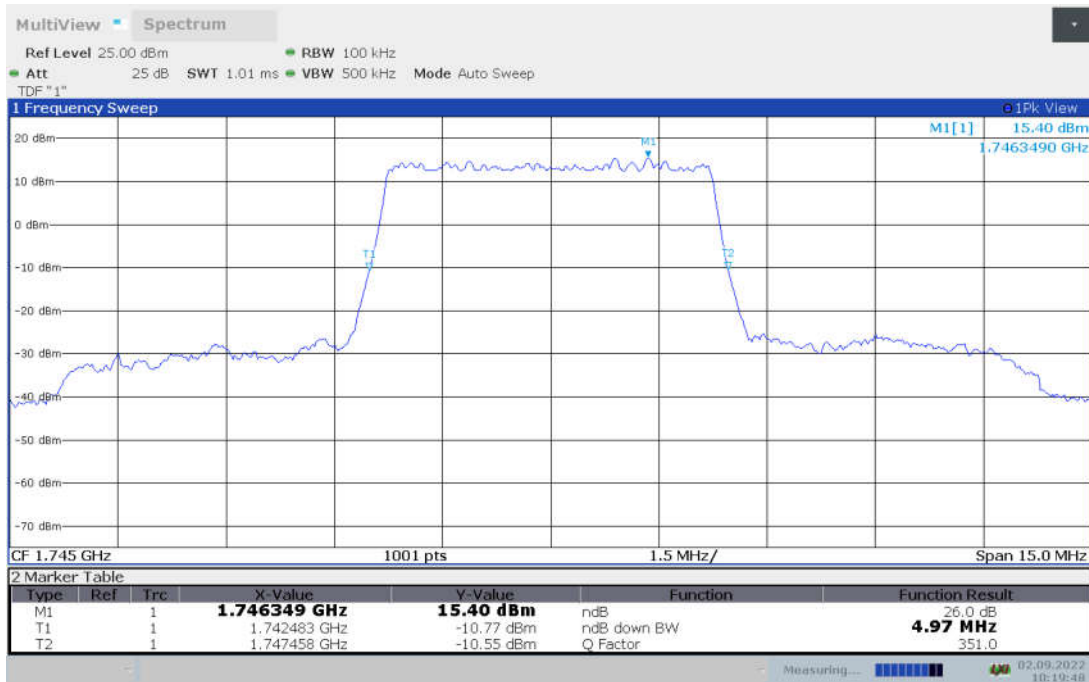


DC\_2A\_n66A

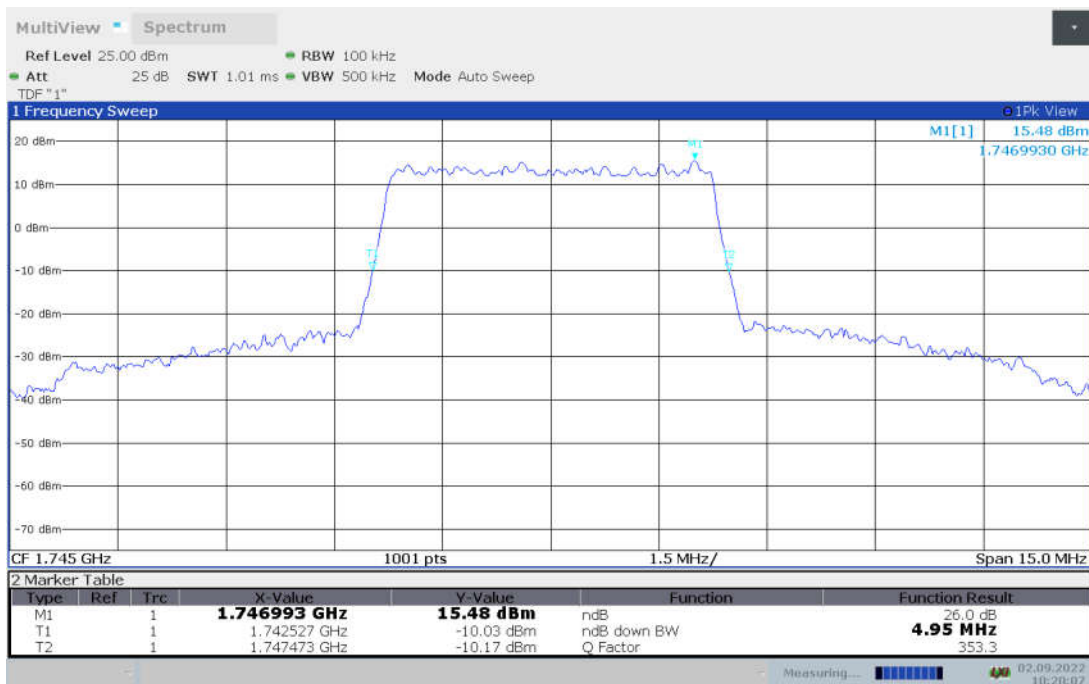
DC\_2A\_n66A,5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	4.97	4.95

DC\_2A\_n66A,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



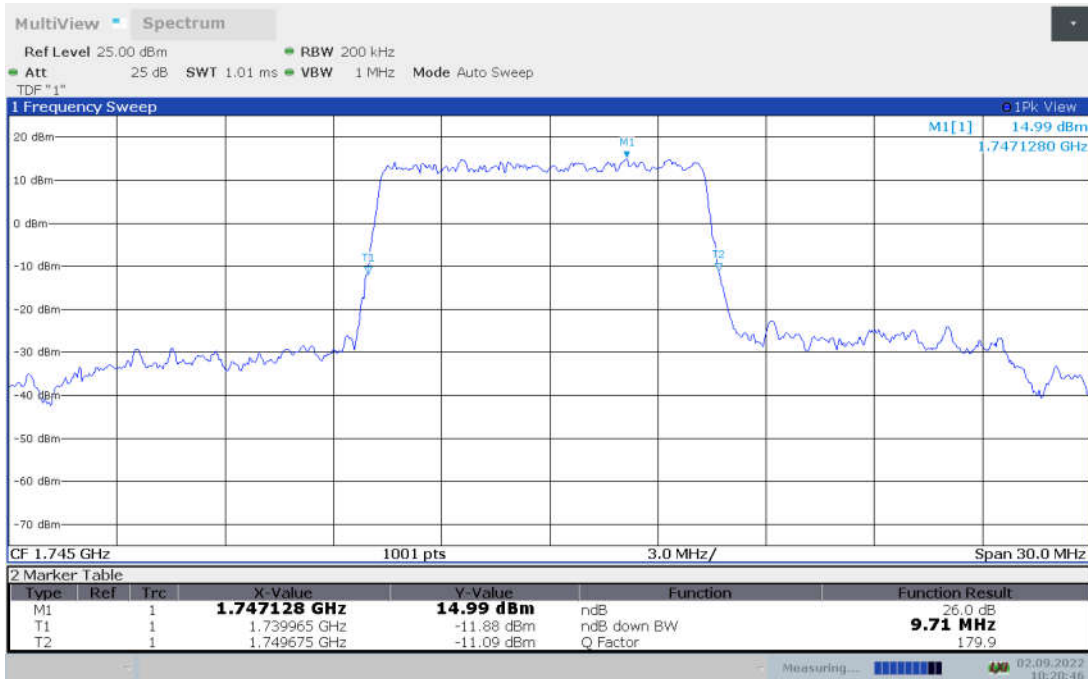
DC\_2A\_n66A,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



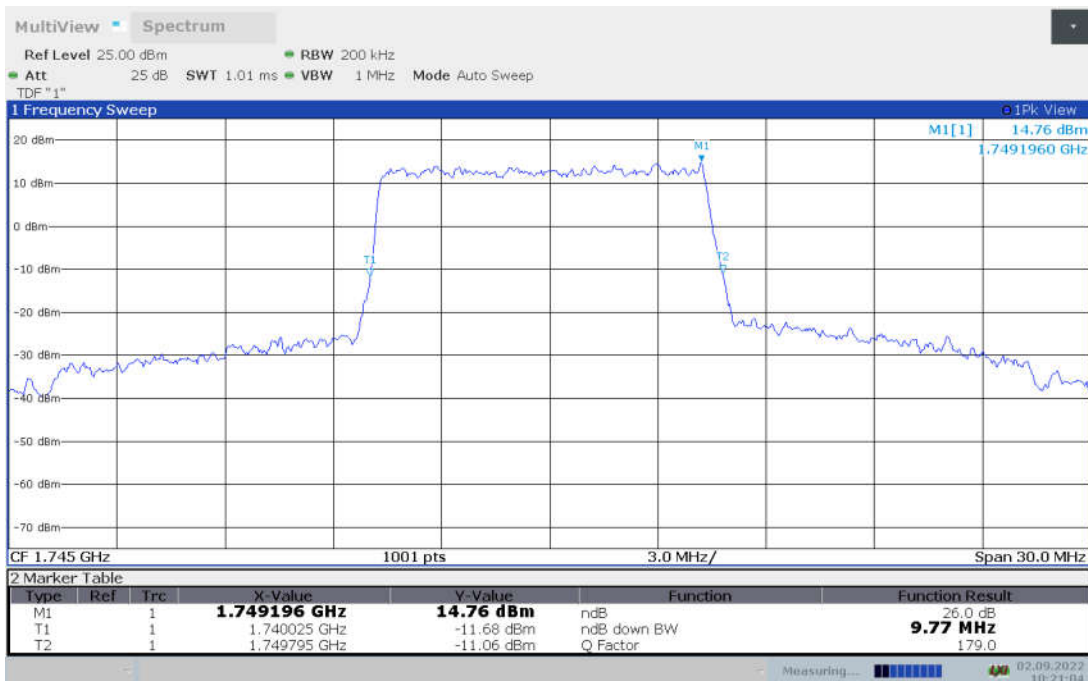
**DC\_2A\_n66A,10MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	9.71	9.77

**DC\_2A\_n66A,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



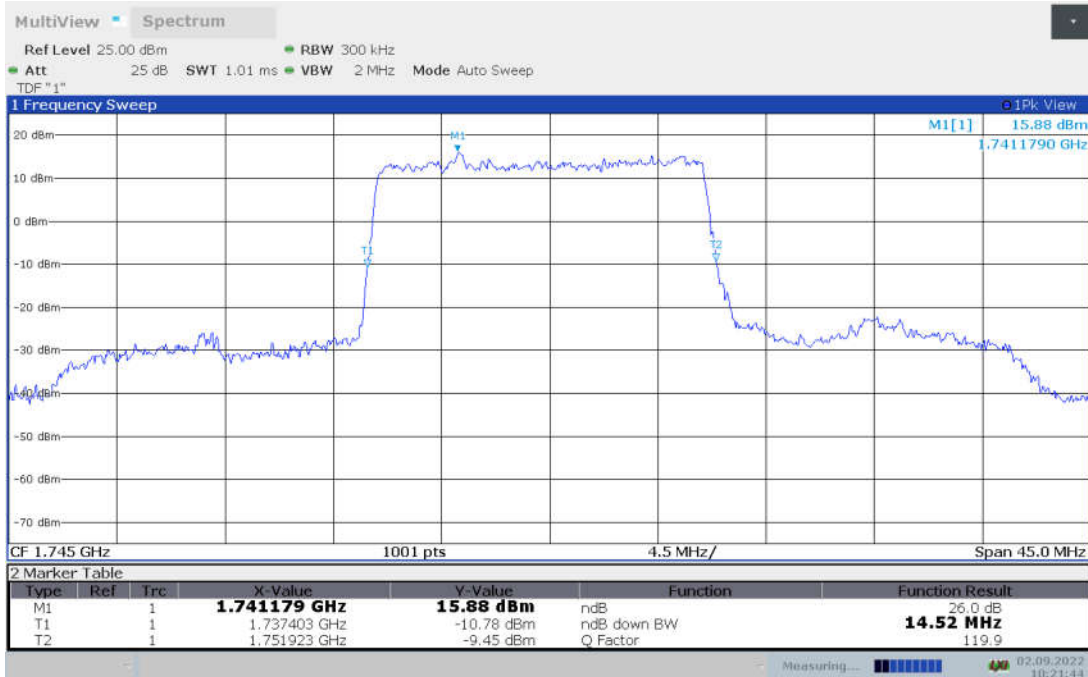
**DC\_2A\_n66A,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



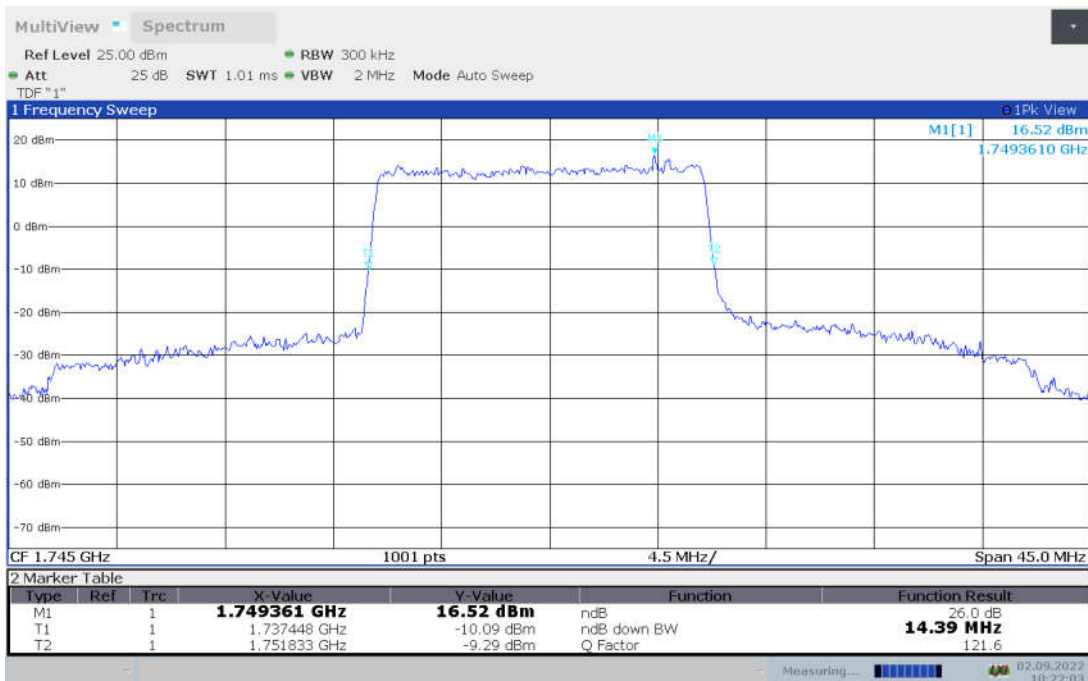
**DC\_2A\_n66A,15MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	14.52	14.39

**DC\_2A\_n66A,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



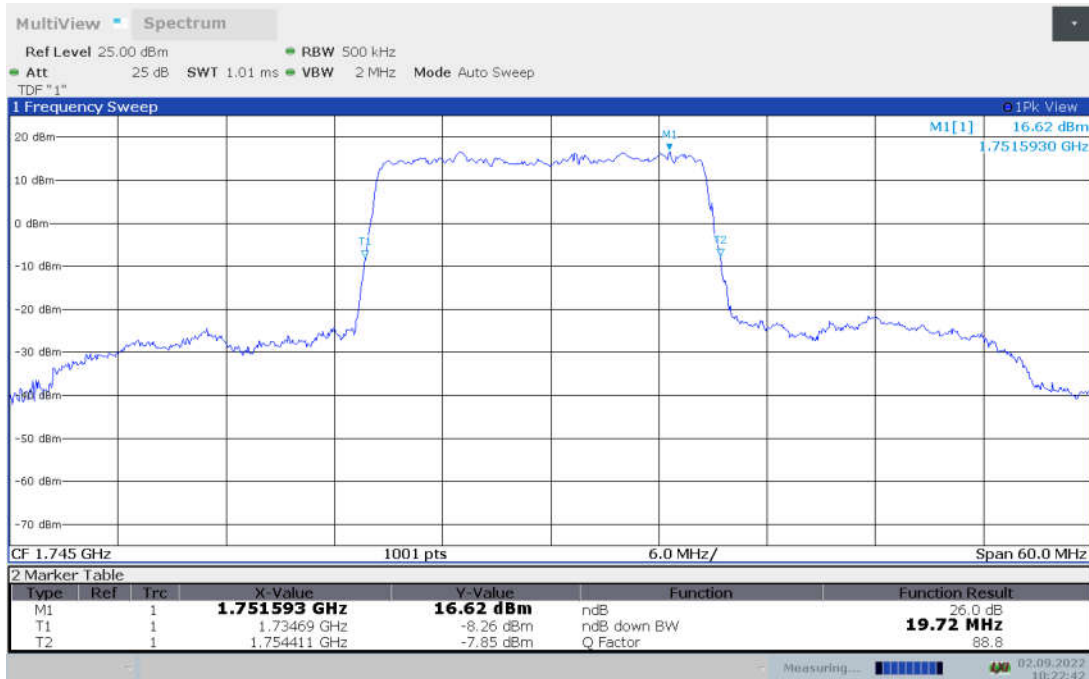
**DC\_2A\_n66A,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



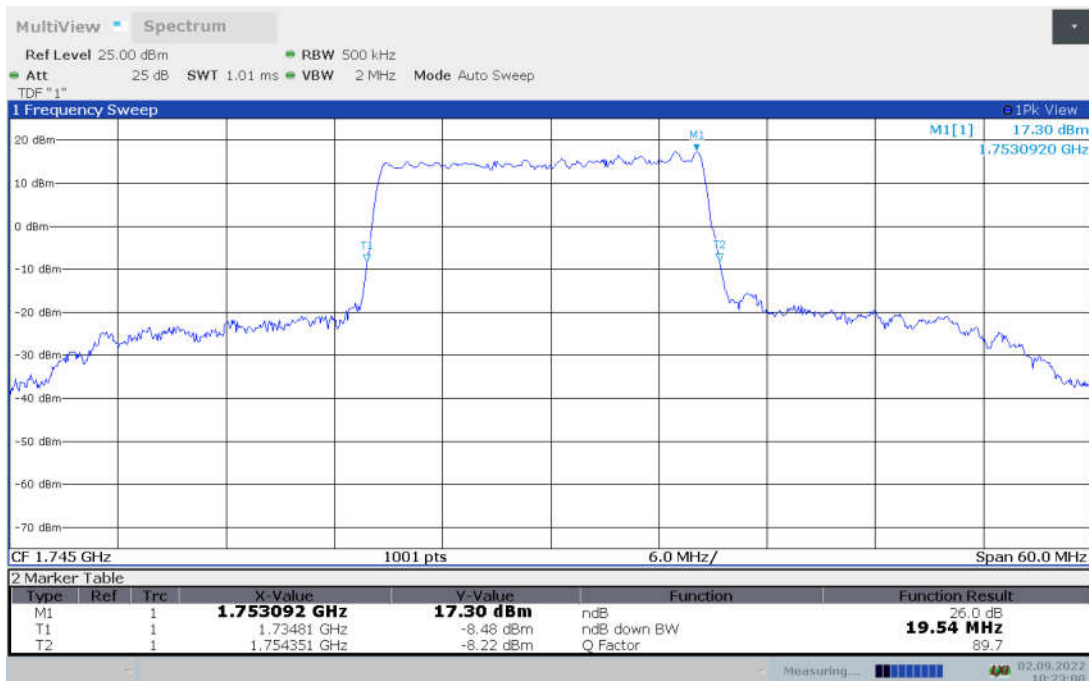
**DC\_2A\_n66A,20MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	19.72	19.54

**DC\_2A\_n66A,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



**DC\_2A\_n66A,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**

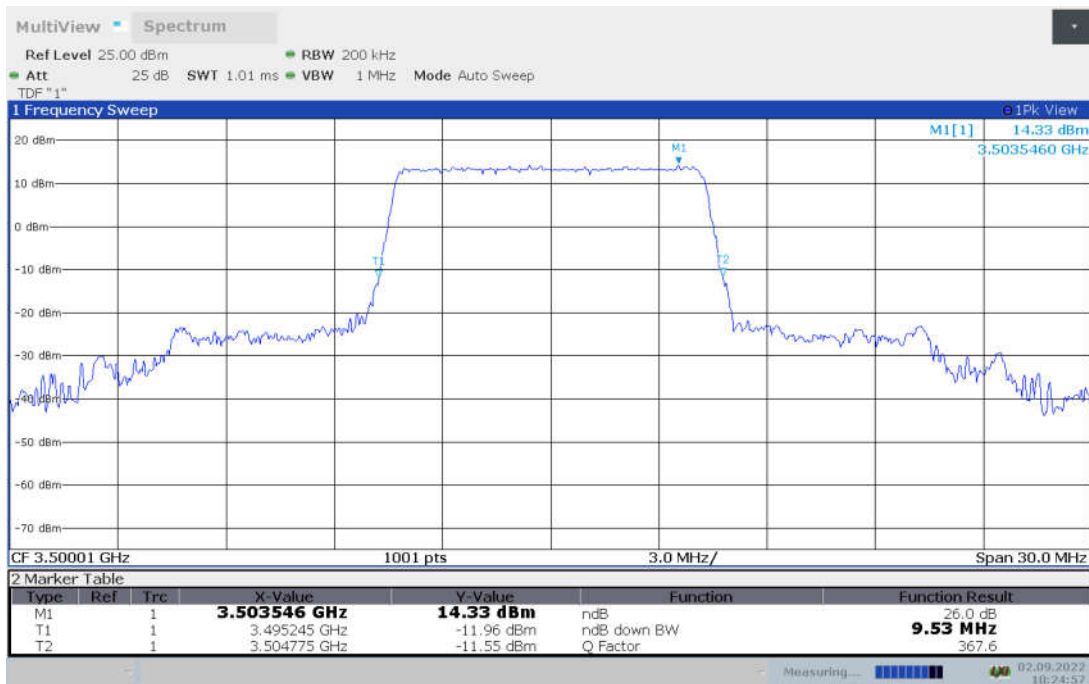


DC\_2A\_n78A(3450 MHz-3550 MHz)

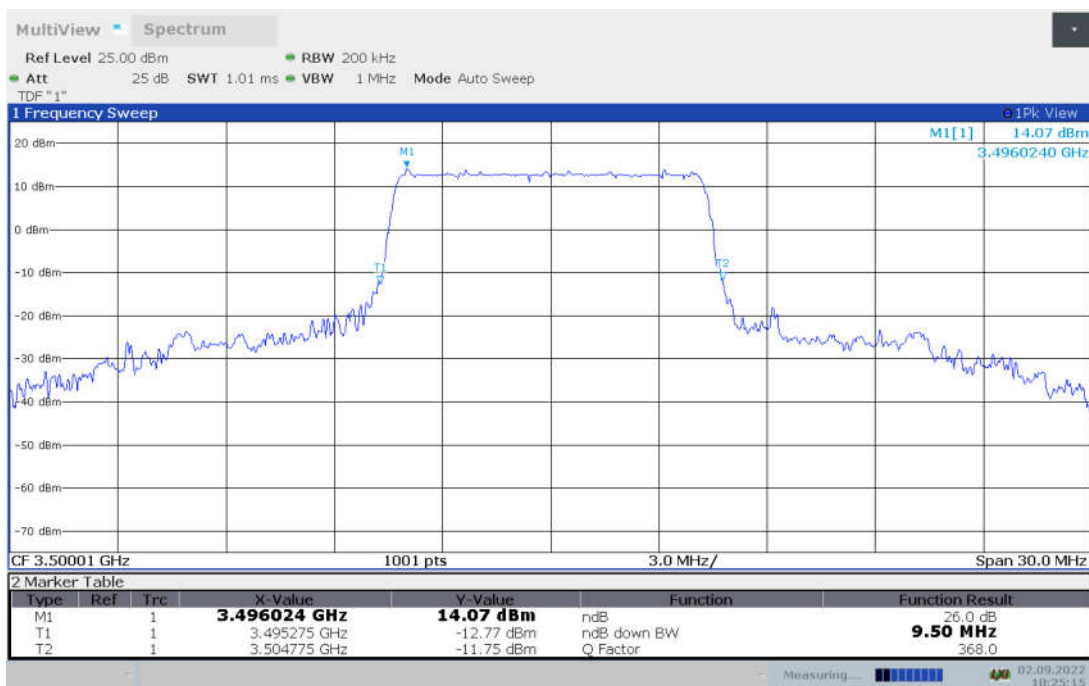
DC\_2A\_n78A(3450 MHz-3550 MHz),10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	9.53	9.53

DC\_2A\_n78A(3450 MHz-3550 MHz),10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



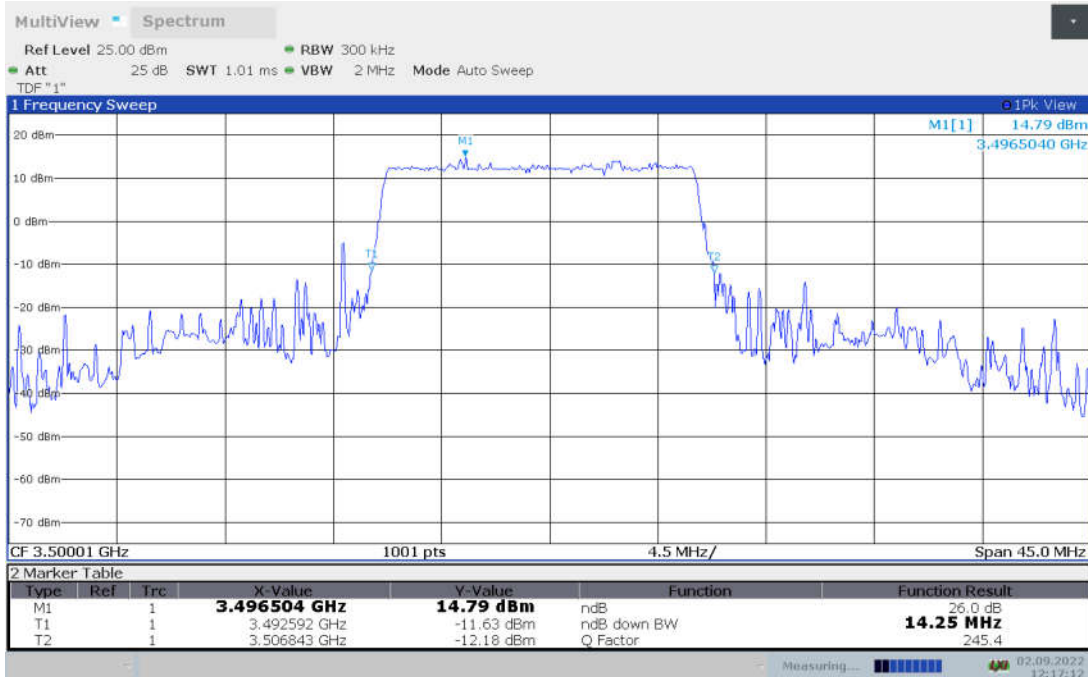
DC\_2A\_n78A(3450 MHz-3550 MHz),10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



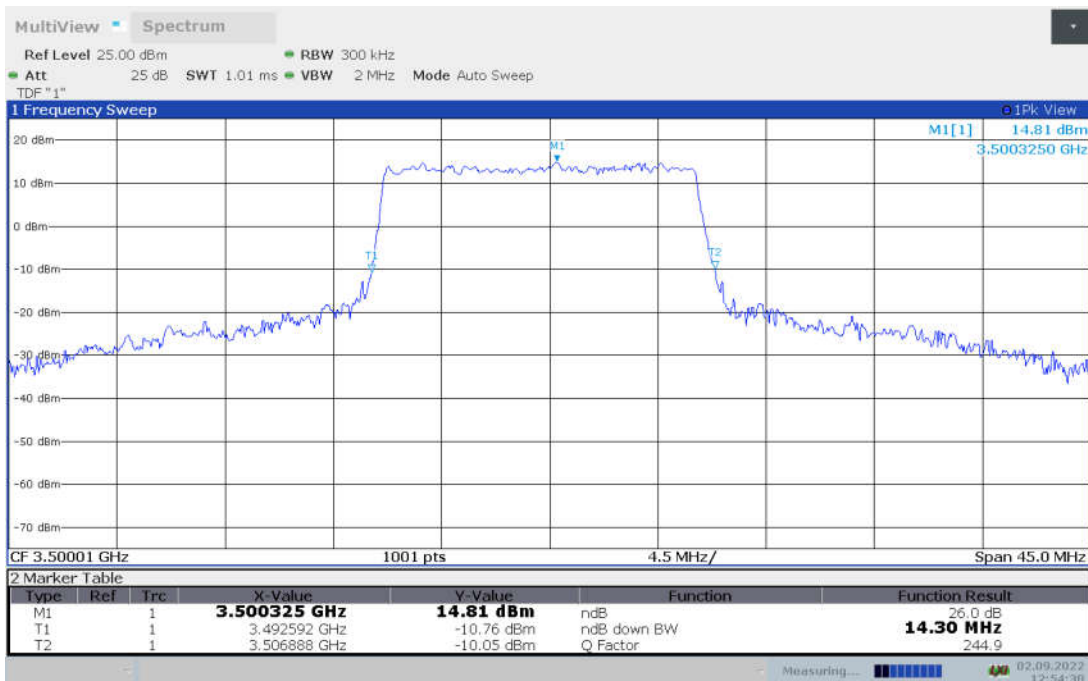
DC\_2A\_n78A(3450 MHz-3550 MHz),15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	14.25	14.30

DC\_2A\_n78A(3450 MHz-3550 MHz),15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



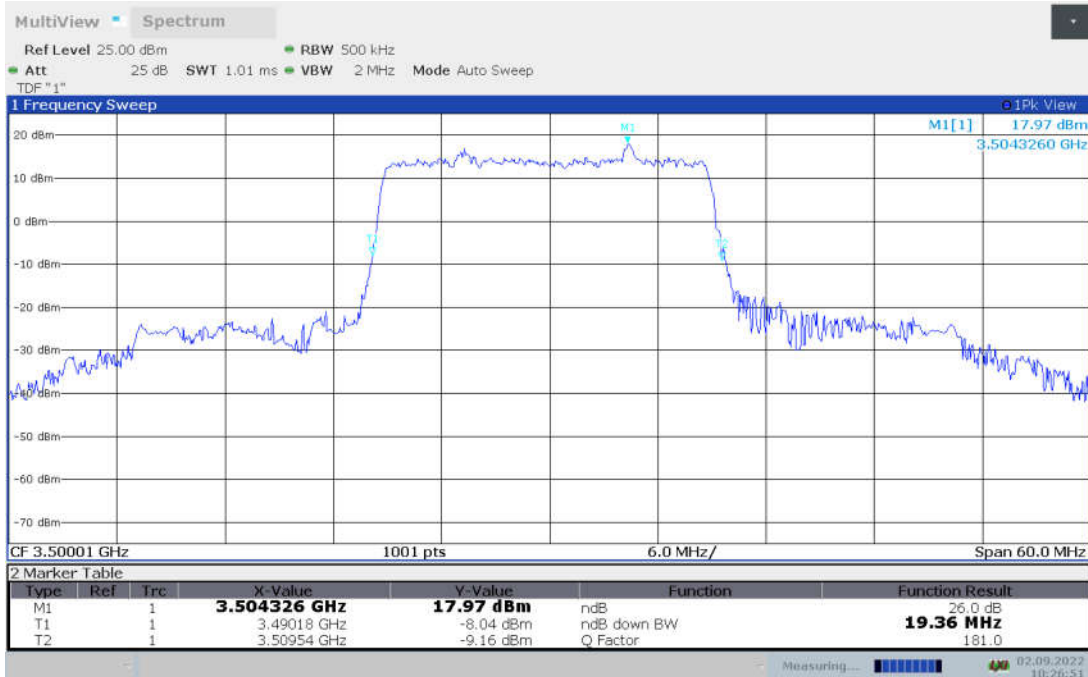
DC\_2A\_n78A(3450 MHz-3550 MHz),15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



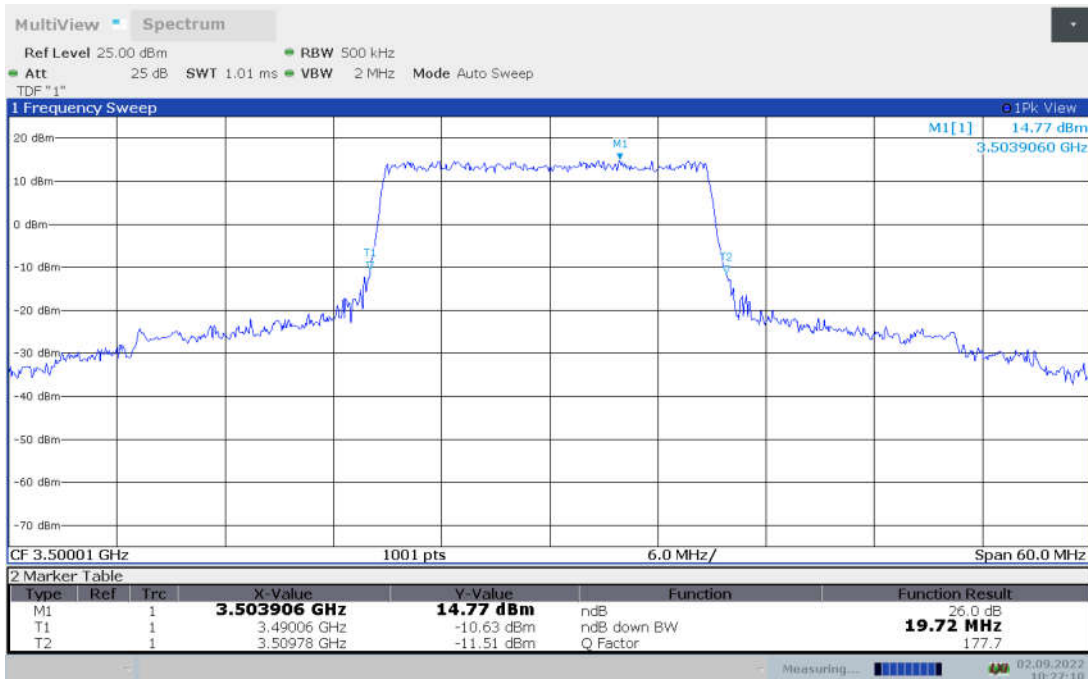
DC\_2A\_n78A(3450 MHz-3550 MHz),20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	19.36	19.72

DC\_2A\_n78A(3450 MHz-3550 MHz),20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



DC\_2A\_n78A(3450 MHz-3550 MHz),20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

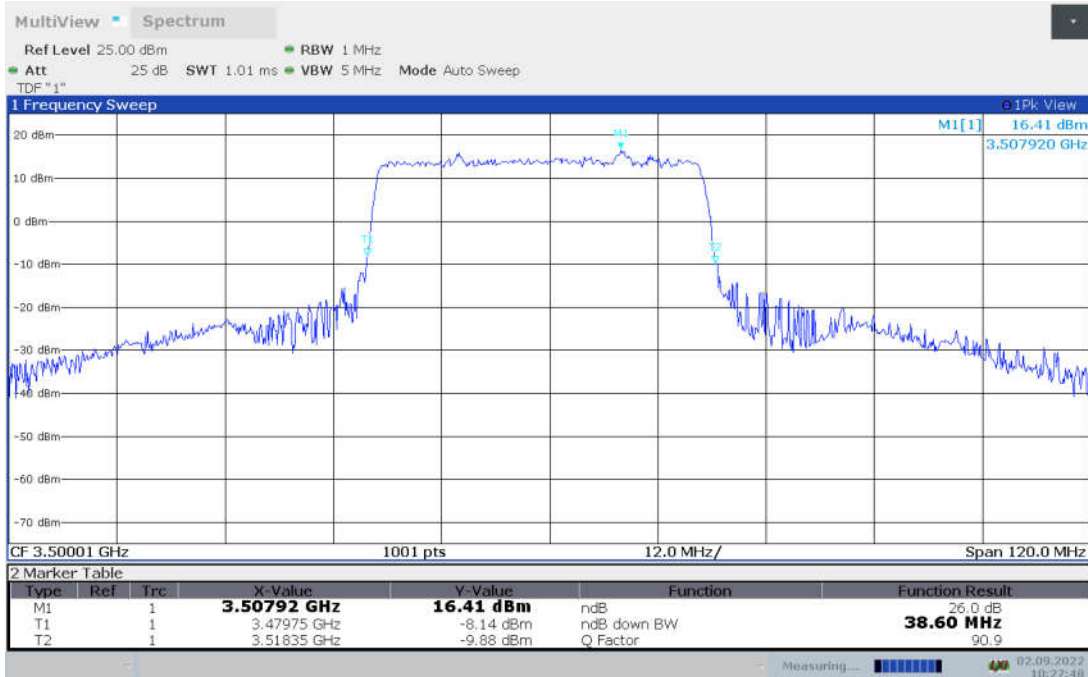




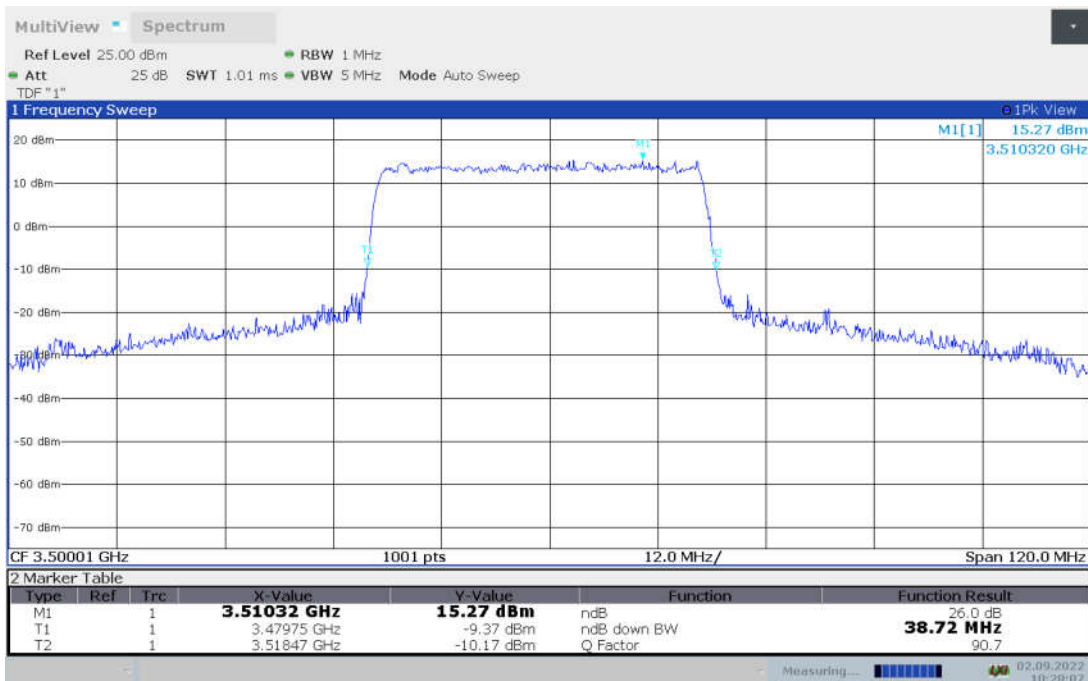
**DC\_2A\_n78A(3450 MHz-3550 MHz),40MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	38.60	38.72

**DC\_2A\_n78A(3450 MHz-3550 MHz),40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



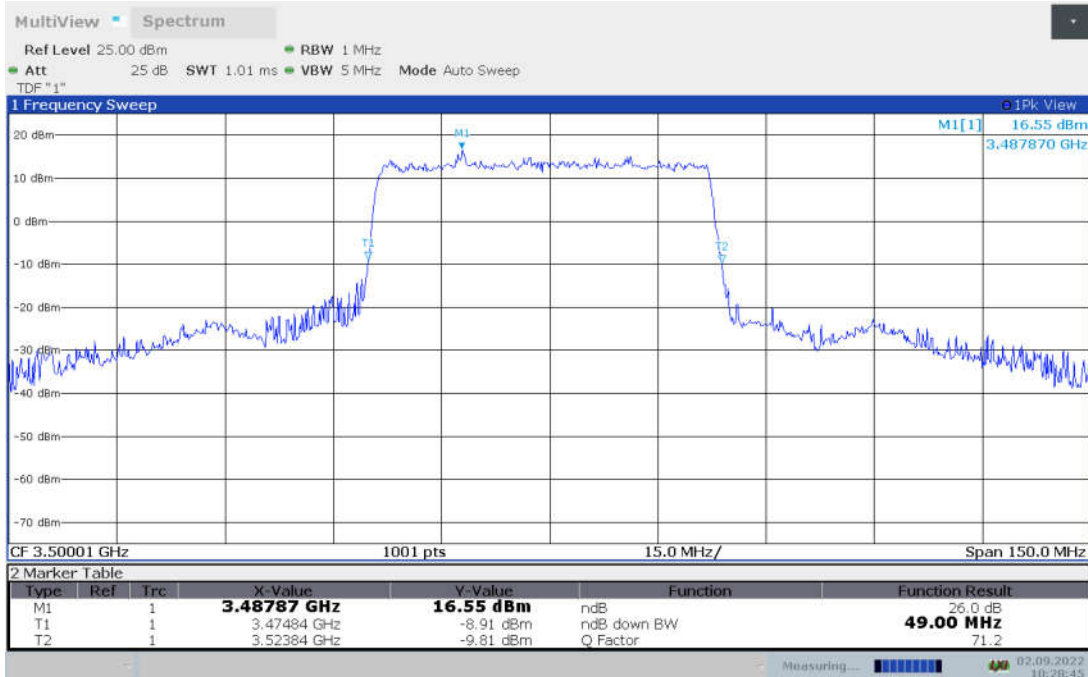
**DC\_2A\_n78A(3450 MHz-3550 MHz),40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



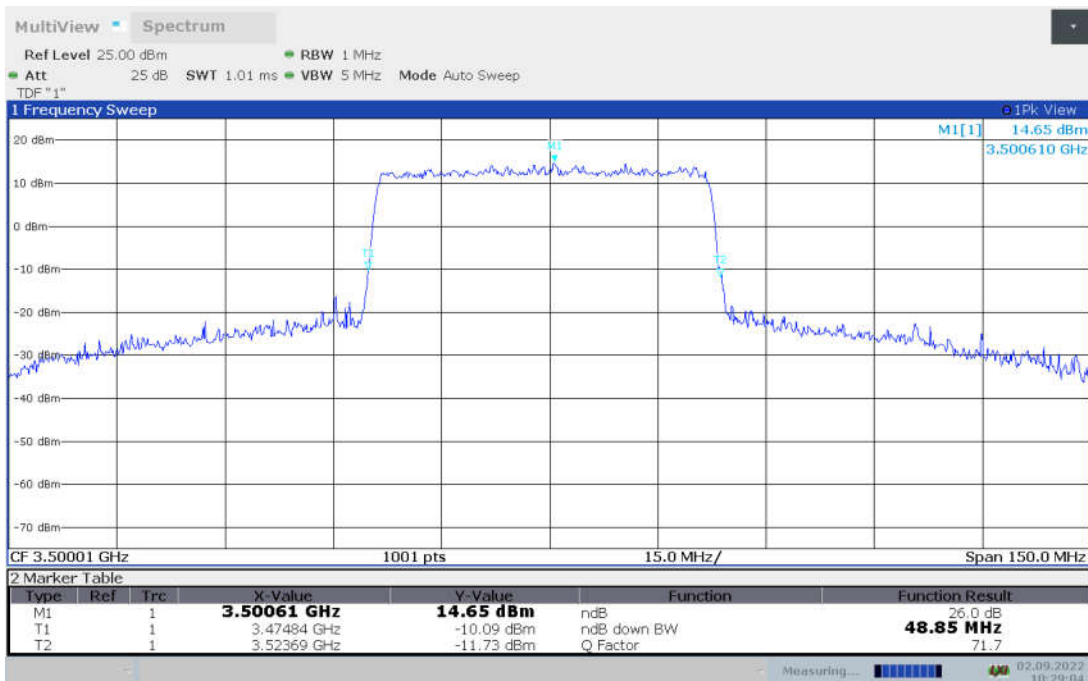
**DC\_2A\_n78A(3450 MHz-3550 MHz),50MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	49.00	48.85

**DC\_2A\_n78A(3450 MHz-3550 MHz),50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



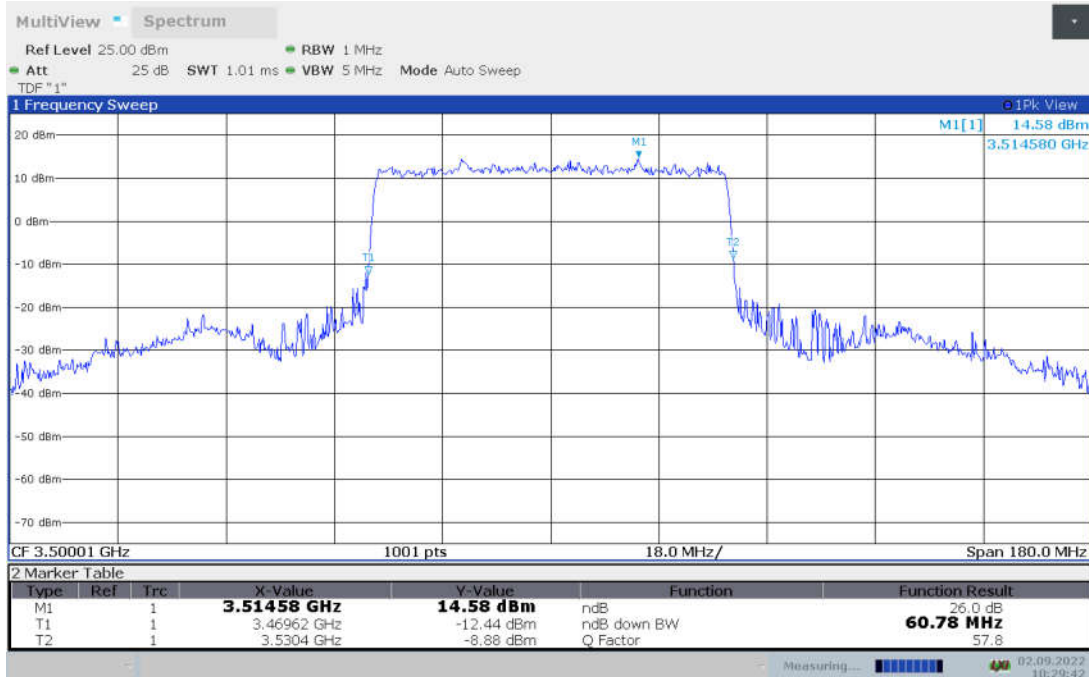
**DC\_2A\_n78A(3450 MHz-3550 MHz),50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



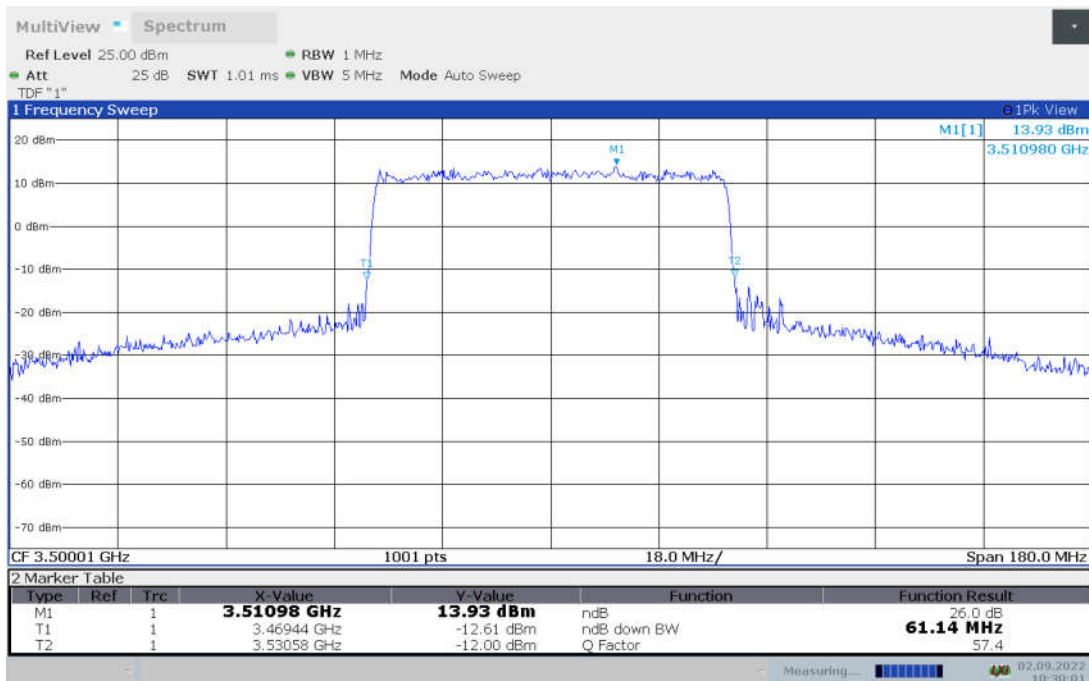
**DC\_2A\_n78A(3450 MHz-3550 MHz),60MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	60.78	61.14

**DC\_2A\_n78A(3450 MHz-3550 MHz),60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



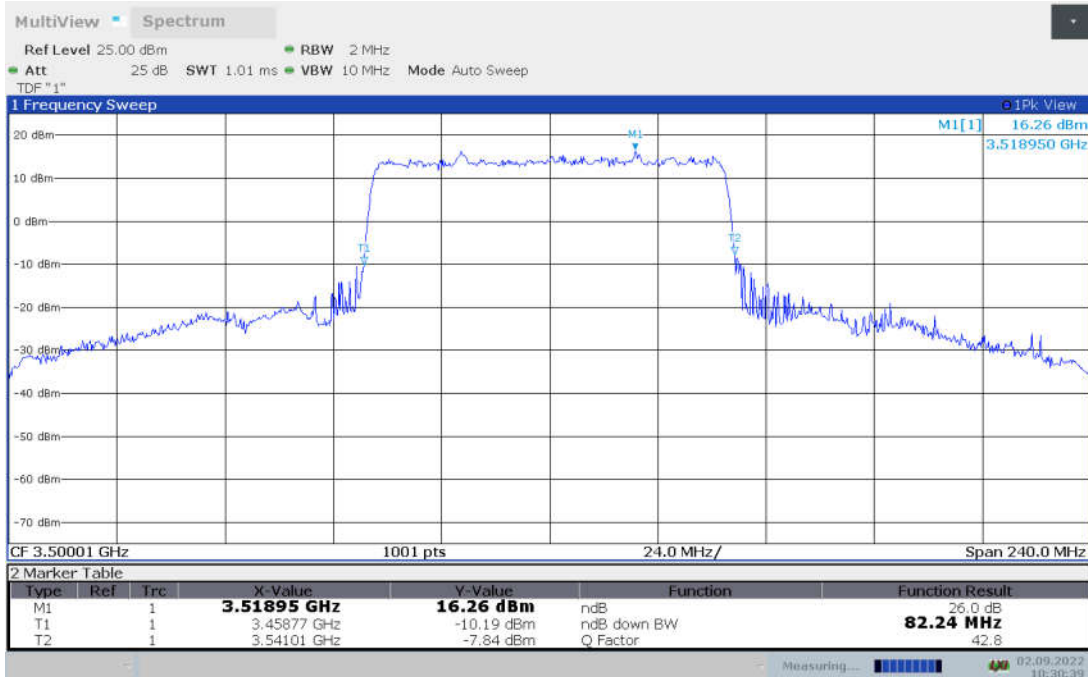
**DC\_2A\_n78A(3450 MHz-3550 MHz),60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



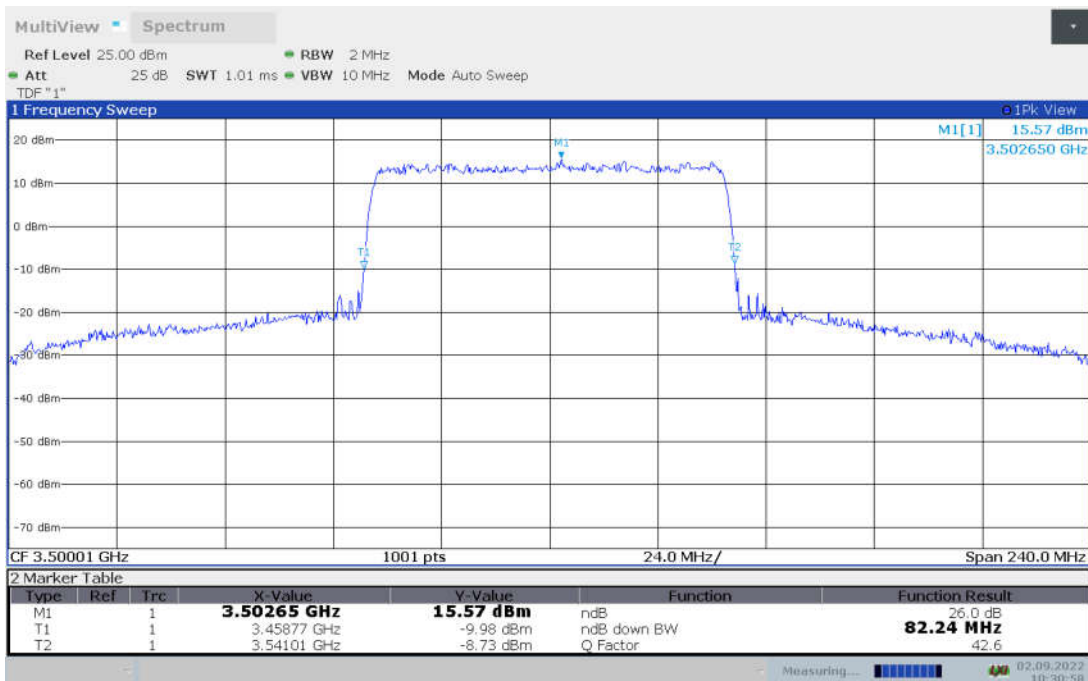
DC\_2A\_n78A(3450 MHz-3550 MHz),80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	82.24	82.24

DC\_2A\_n78A(3450 MHz-3550 MHz),80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



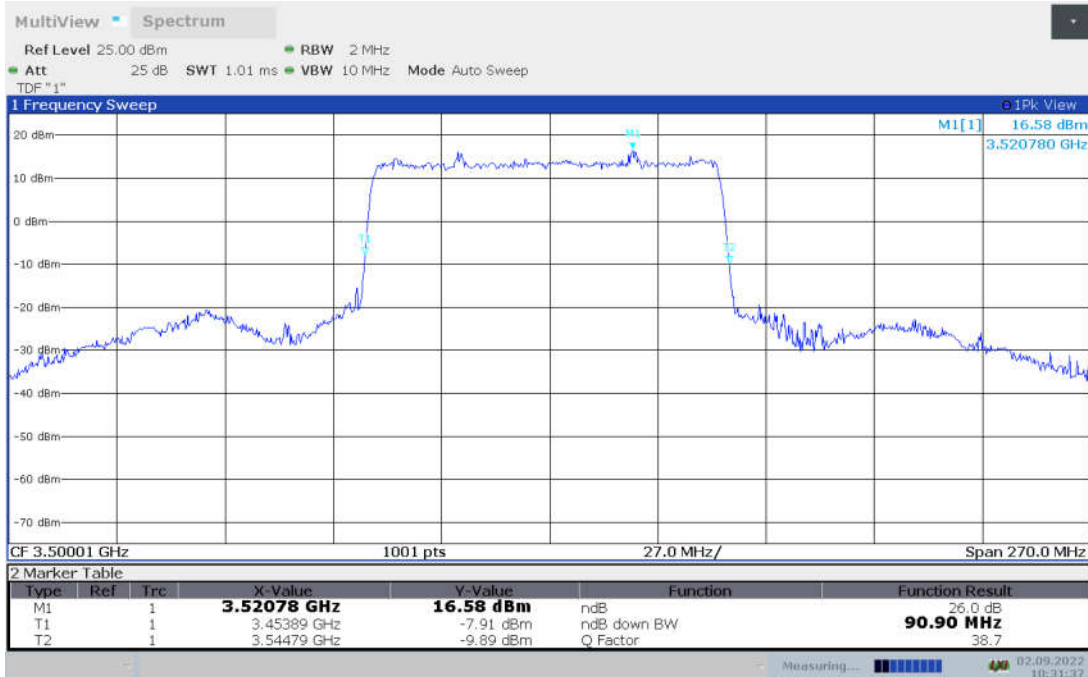
DC\_2A\_n78A(3450 MHz-3550 MHz),80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



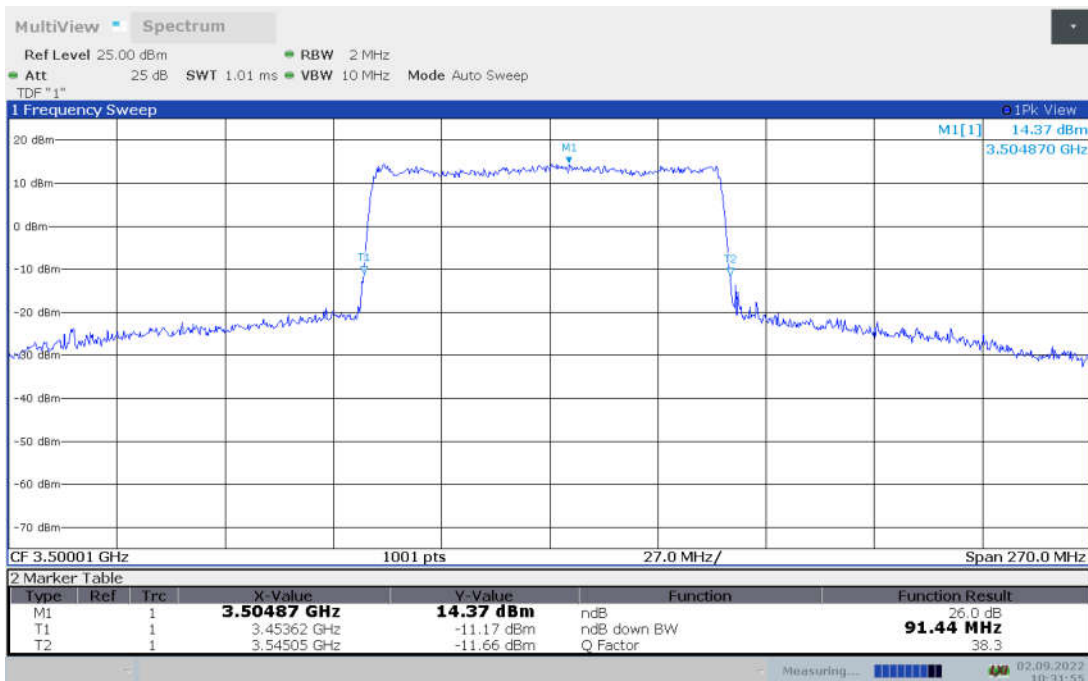
**DC\_2A\_n78A(3450 MHz-3550 MHz),90MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	90.90	91.44

**DC\_2A\_n78A(3450 MHz-3550 MHz),90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



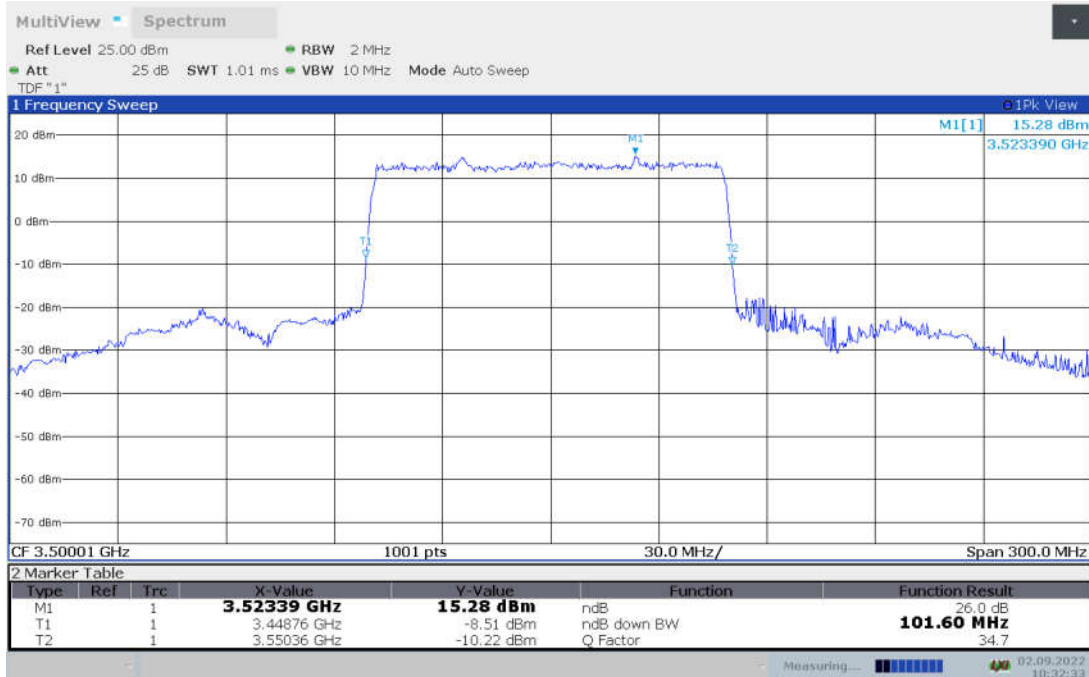
**DC\_2A\_n78A(3450 MHz-3550 MHz),90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



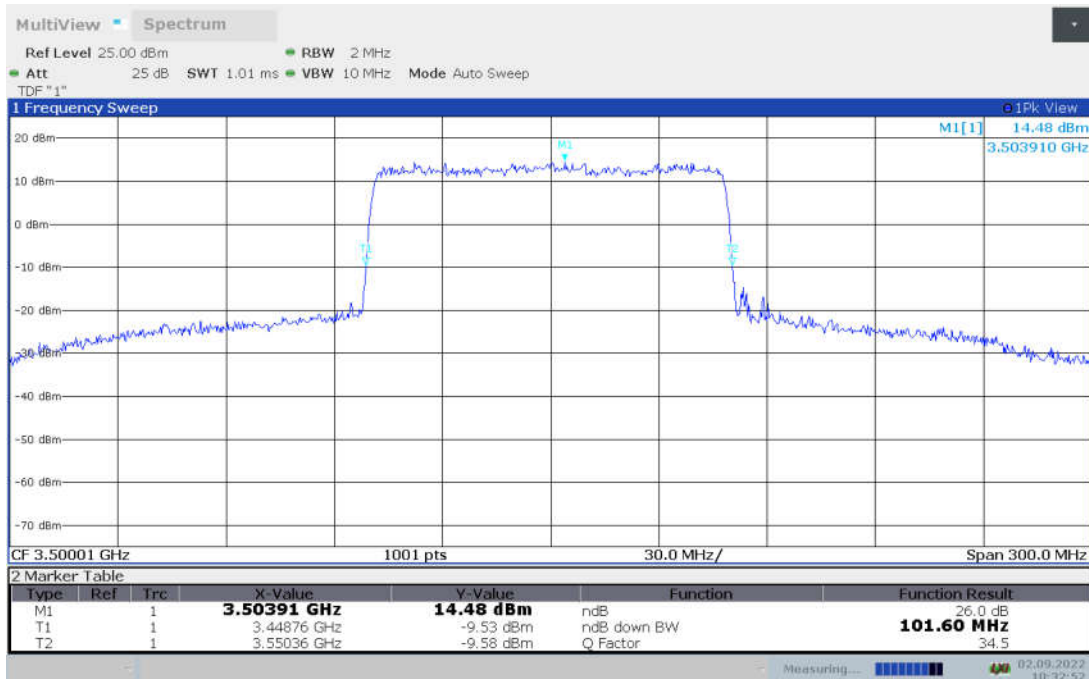
**DC\_2A\_n78A(3450 MHz-3550 MHz),100MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	101.60	101.60

**DC\_2A\_n78A(3450 MHz-3550 MHz),100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



**DC\_2A\_n78A(3450 MHz-3550 MHz),100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



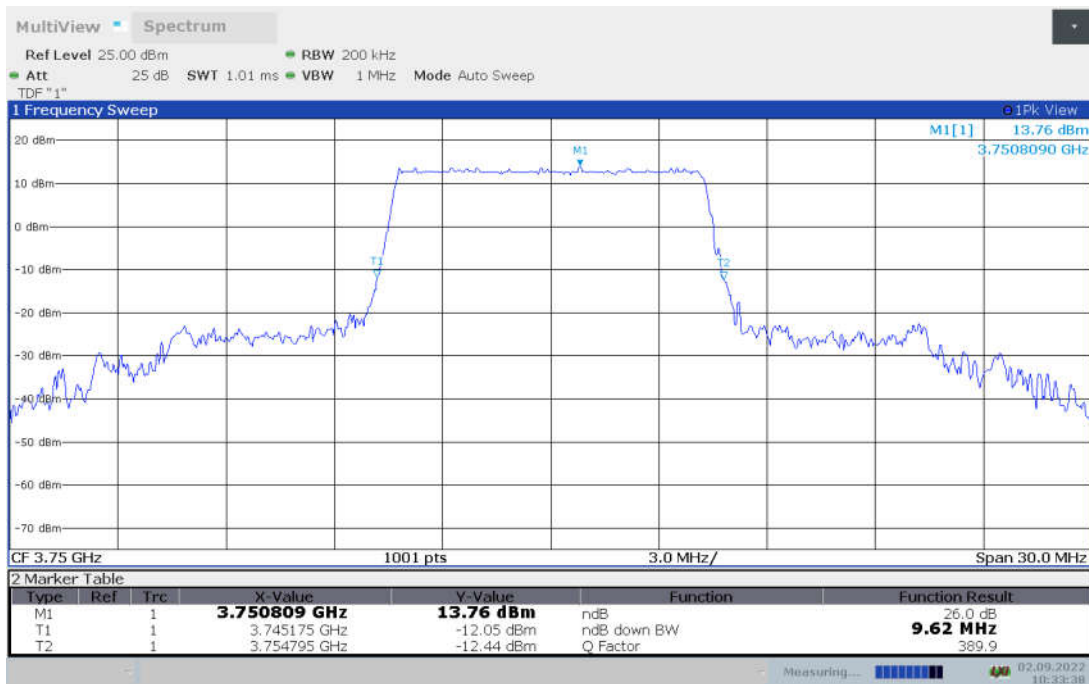


DC\_2A\_n78A(3700 MHz-3800 MHz)

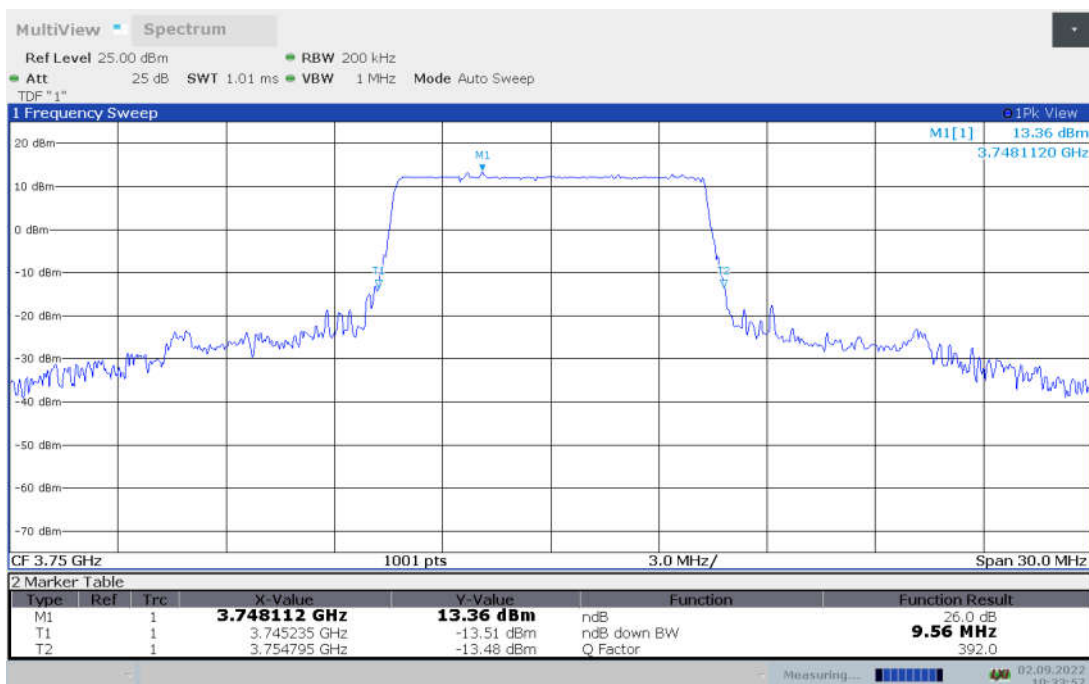
DC\_2A\_n78A(3700 MHz-3800 MHz),10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	9.62	9.56

DC\_2A\_n78A(3700 MHz-3800 MHz),10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



DC\_2A\_n78A(3700 MHz-3800 MHz),10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

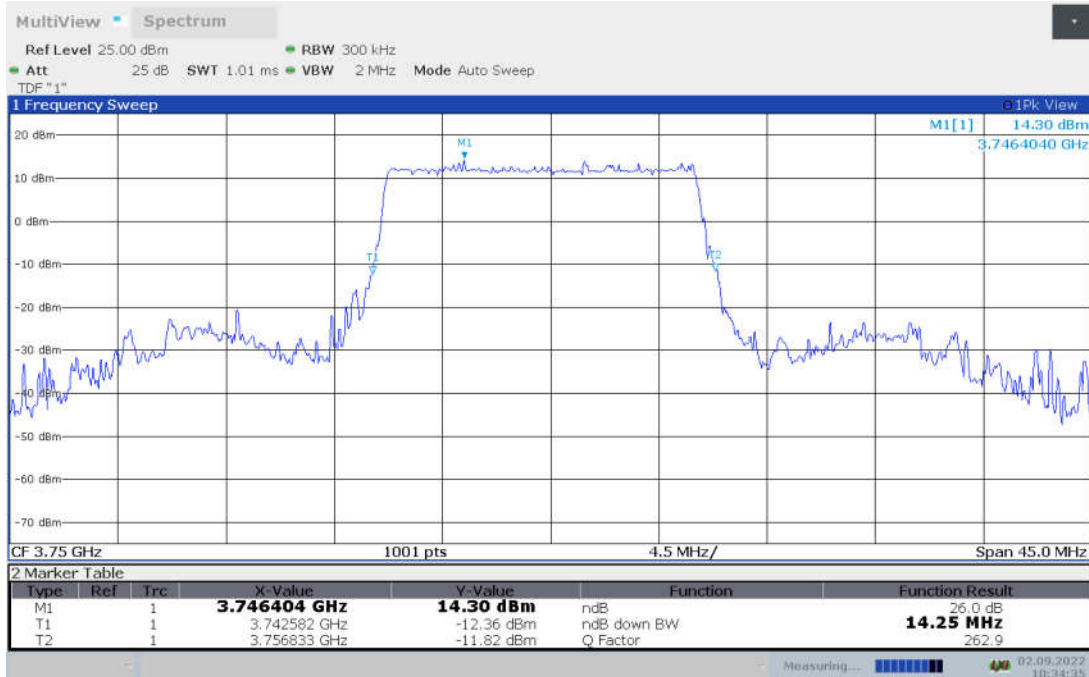




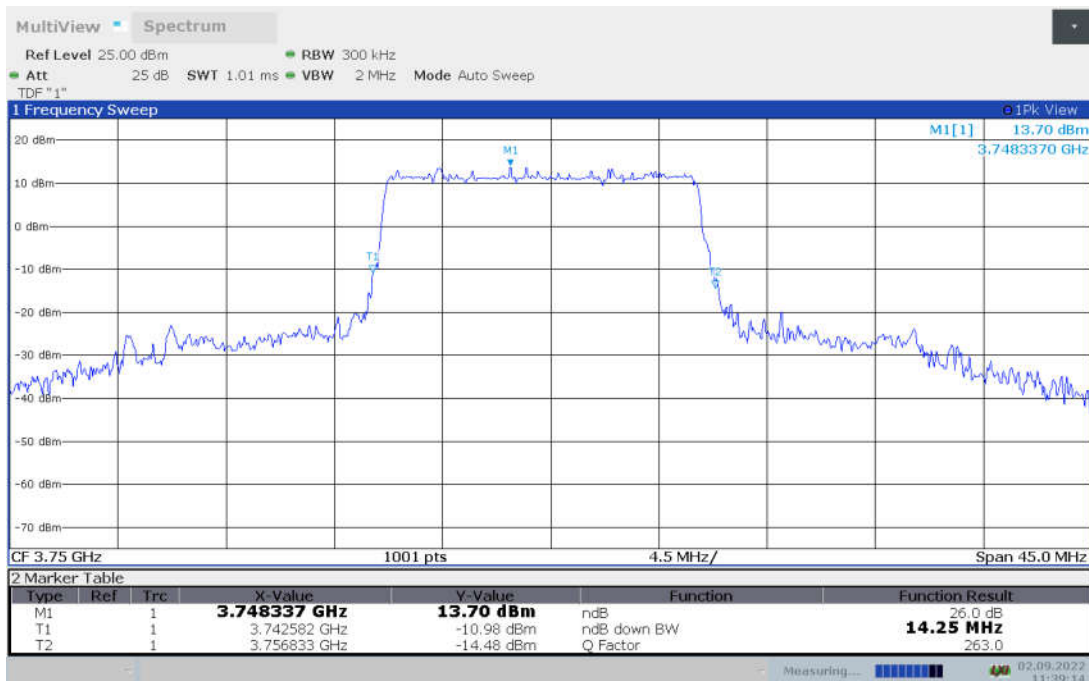
DC\_2A\_n78A(3700 MHz-3800 MHz),15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	14.25	14.25

DC\_2A\_n78A(3700 MHz-3800 MHz),15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



DC\_2A\_n78A(3700 MHz-3800 MHz),15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

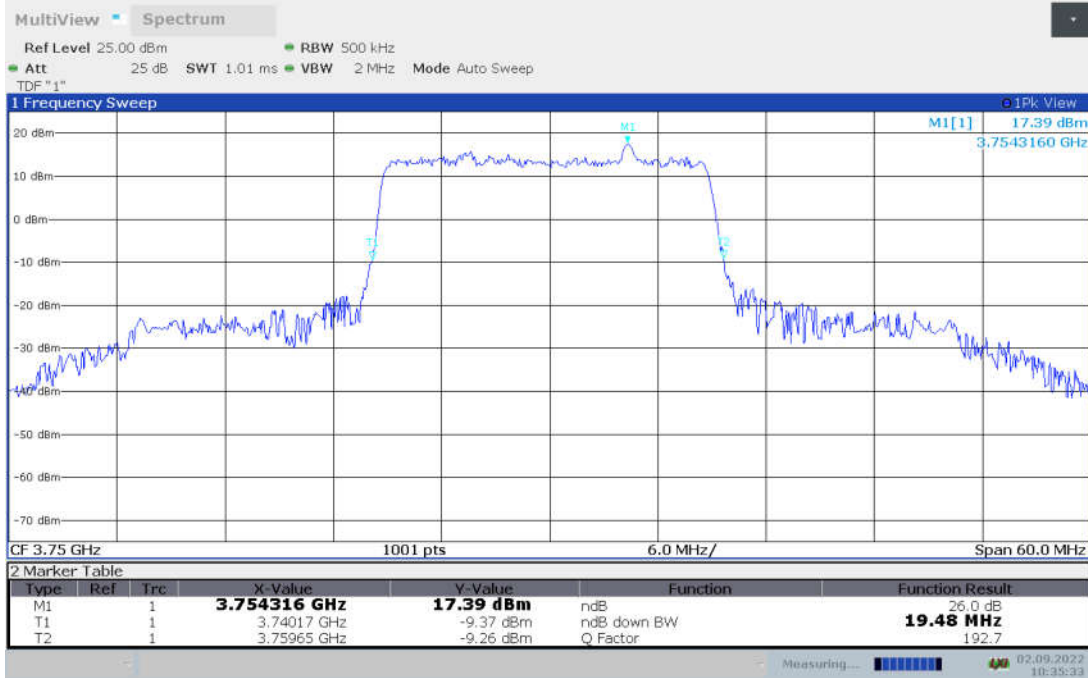




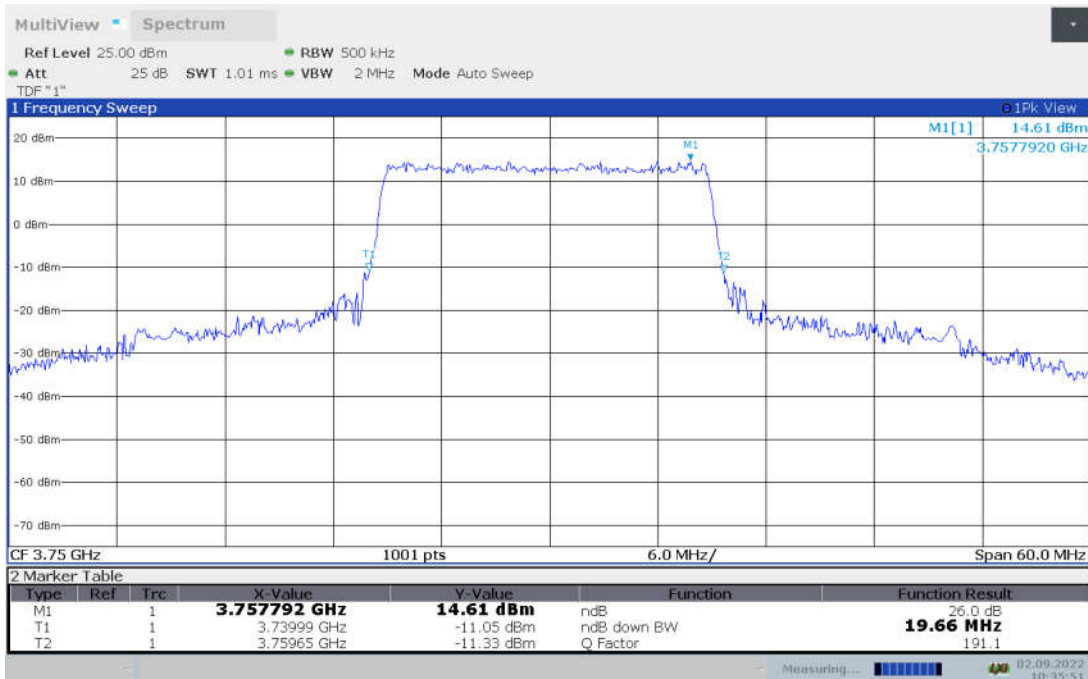
**DC\_2A\_n78A(3700 MHz-3800 MHz),20MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	19.48	19.66

**DC\_2A\_n78A(3700 MHz-3800 MHz),20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



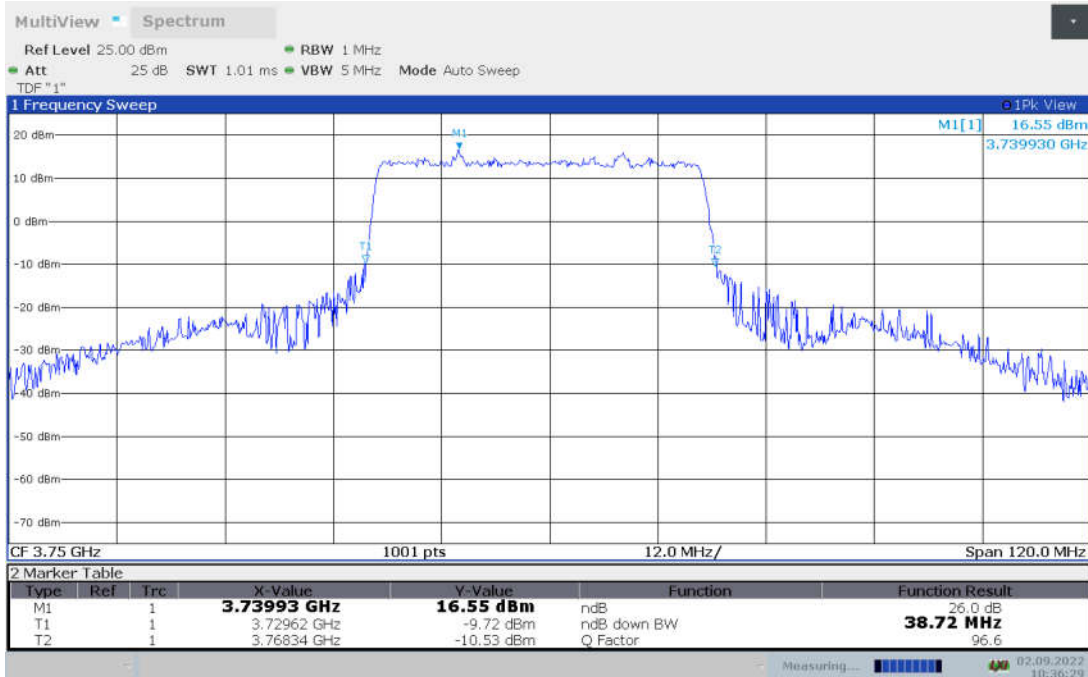
**DC\_2A\_n78A(3700 MHz-3800 MHz),20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



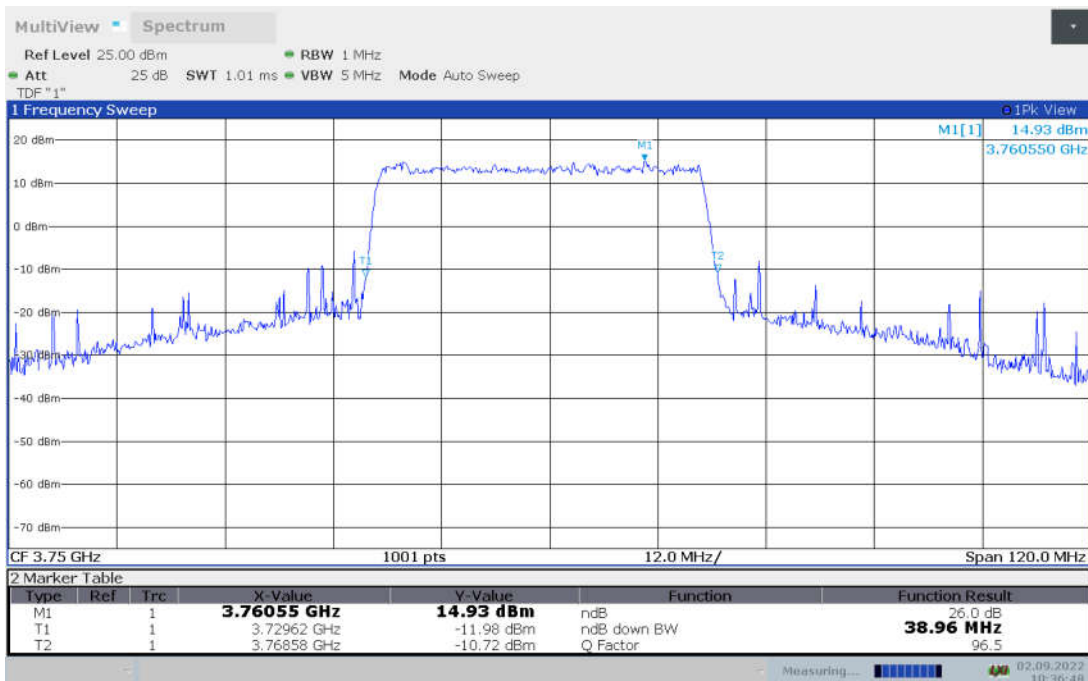
**DC\_2A\_n78A(3700 MHz-3800 MHz),40MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	38.72	38.96

**DC\_2A\_n78A(3700 MHz-3800 MHz),40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



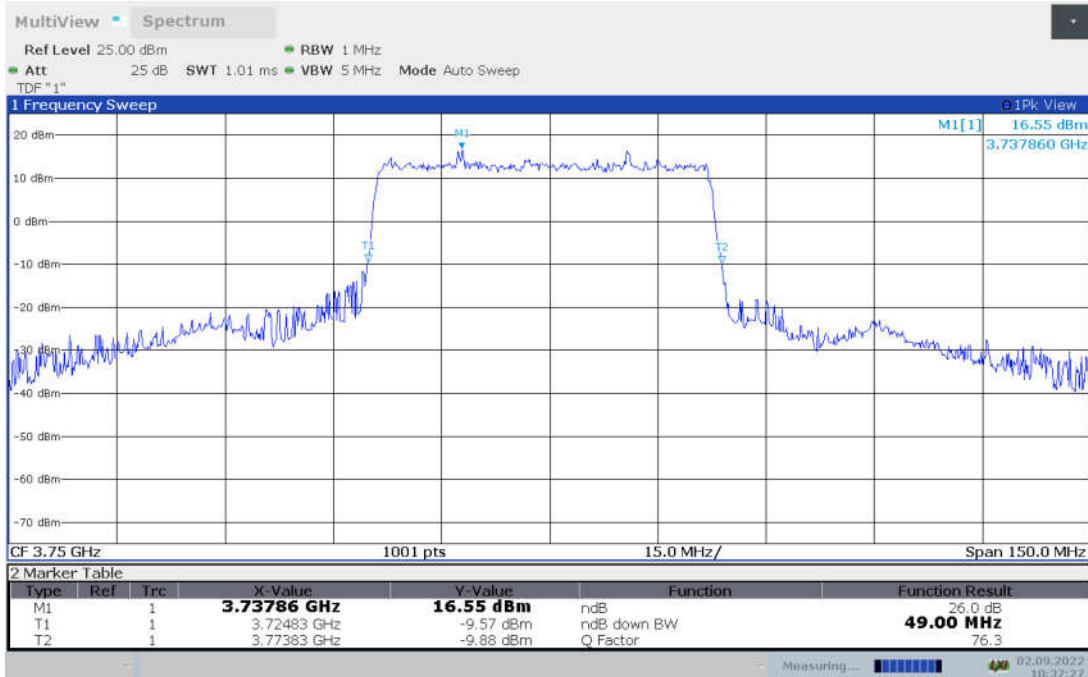
**DC\_2A\_n78A(3700 MHz-3800 MHz),40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



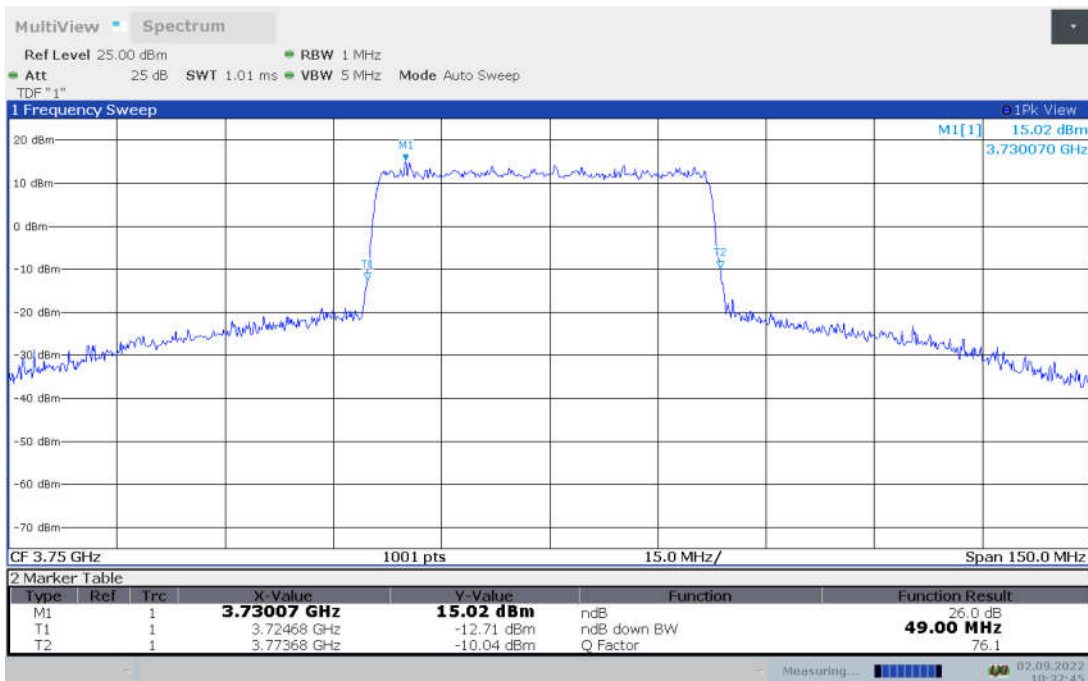
**DC\_2A\_n78A(3700 MHz-3800 MHz),50MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	49.00	49.00

**DC\_2A\_n78A(3700 MHz-3800 MHz),50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



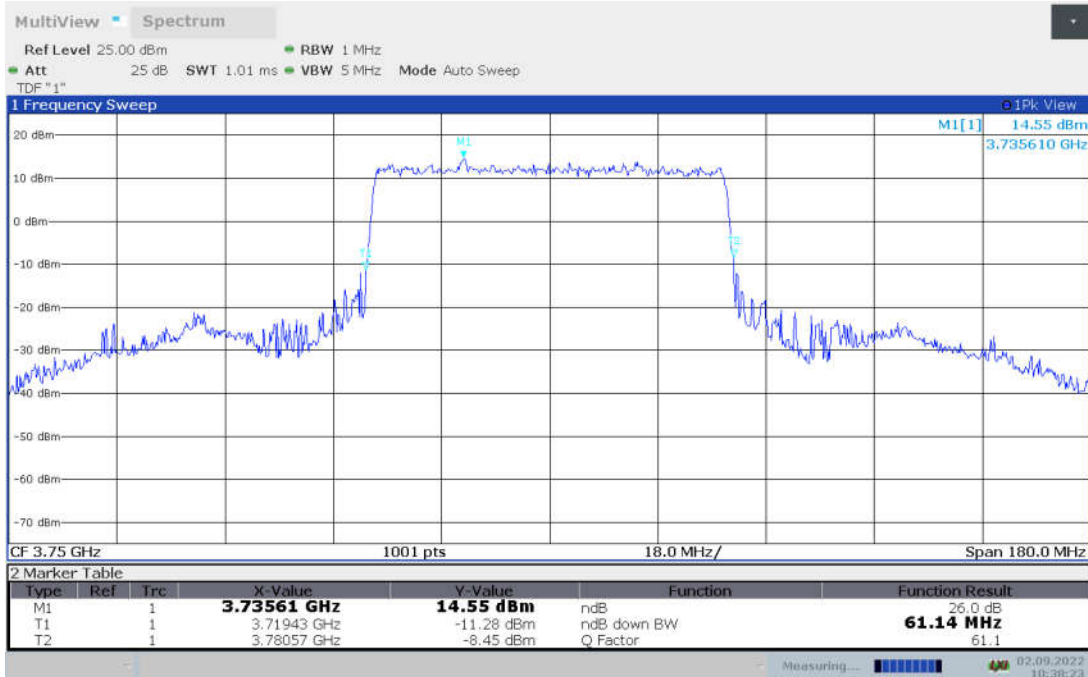
**DC\_2A\_n78A(3700 MHz-3800 MHz),50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



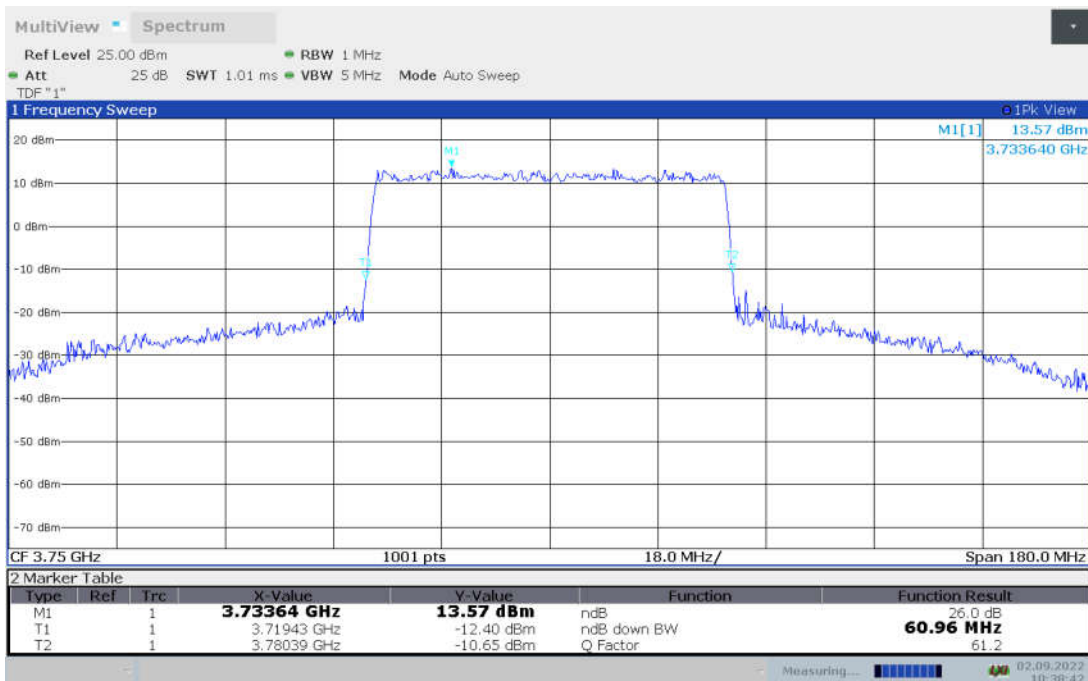
**DC\_2A\_n78A(3700 MHz-3800 MHz),60MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	61.14	60.96

**DC\_2A\_n78A(3700 MHz-3800 MHz),60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



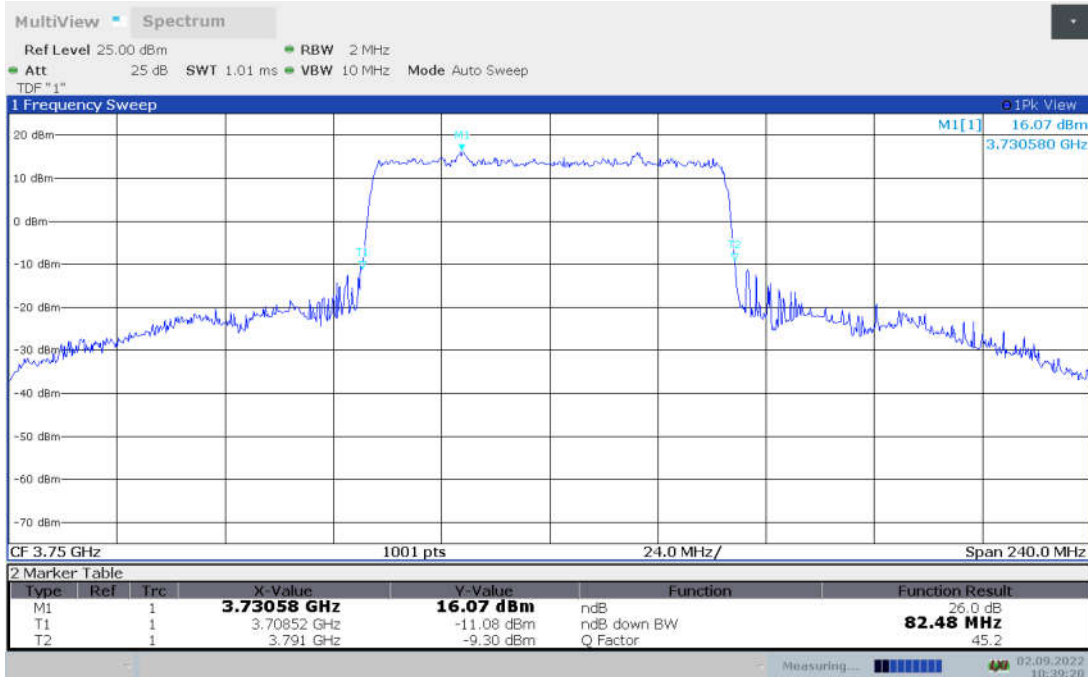
**DC\_2A\_n78A(3700 MHz-3800 MHz),60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



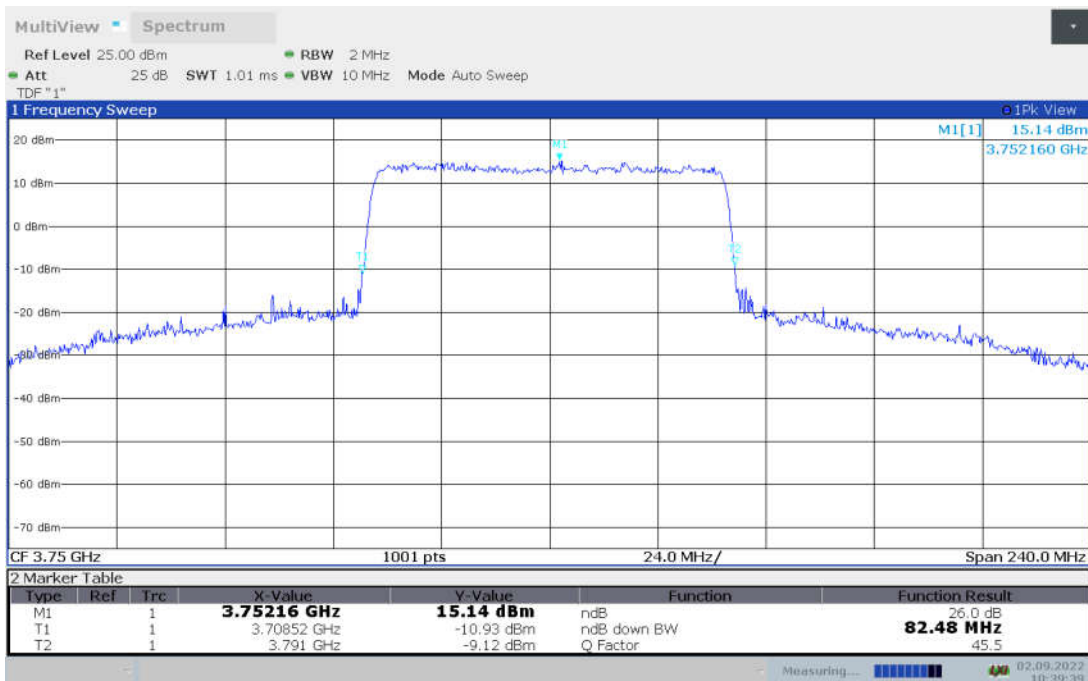
**DC\_2A\_n78A(3700 MHz-3800 MHz),80MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	82.48	82.48

**DC\_2A\_n78A(3700 MHz-3800 MHz),80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



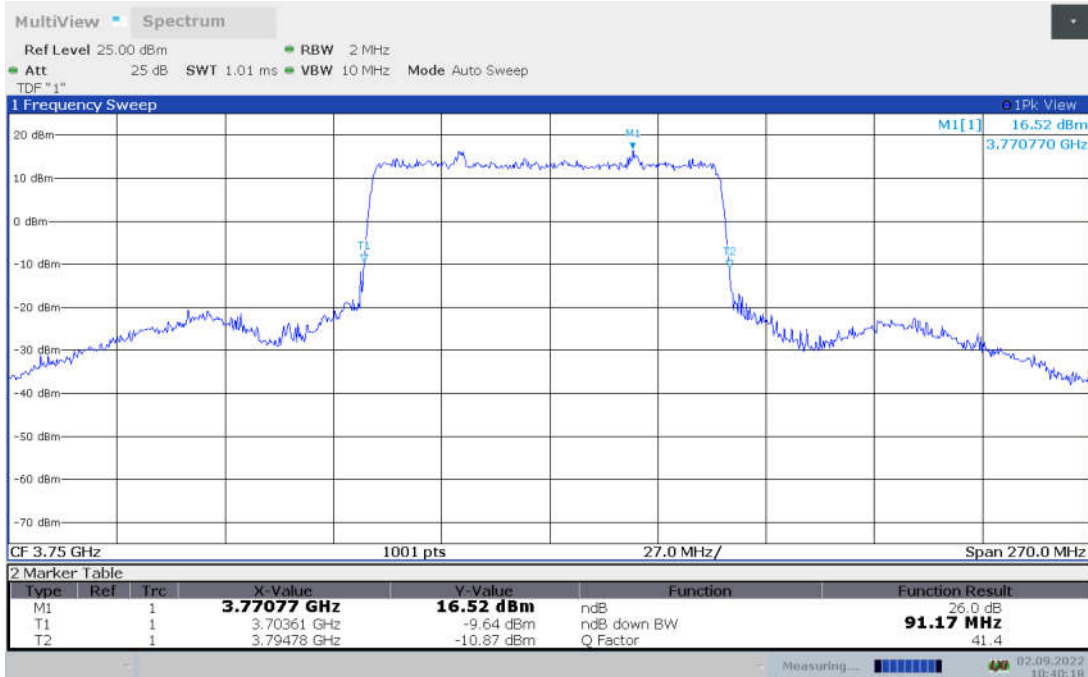
**DC\_2A\_n78A(3700 MHz-3800 MHz),80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**



**DC\_2A\_n78A(3700 MHz-3800 MHz),90MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3750	91.17	91.17

**DC\_2A\_n78A(3700 MHz-3800 MHz),90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)**



**DC\_2A\_n78A(3700 MHz-3800 MHz),90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)**

