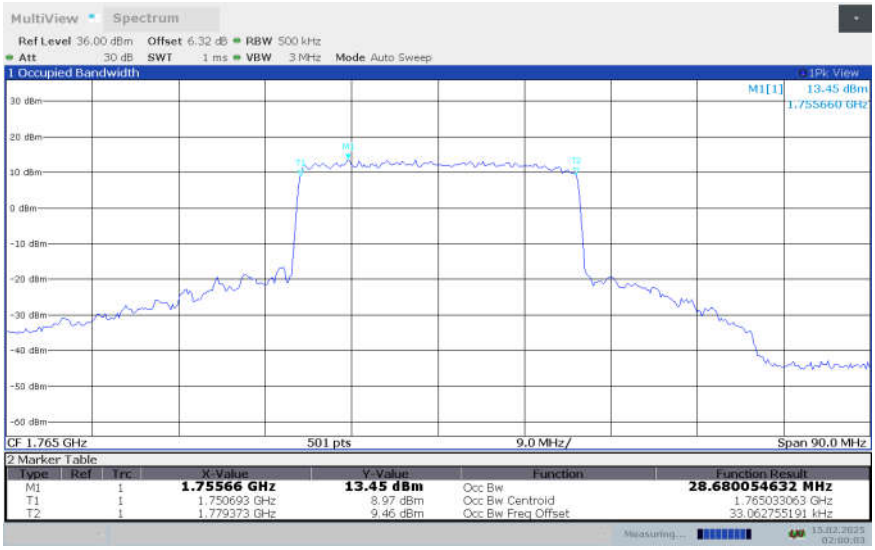
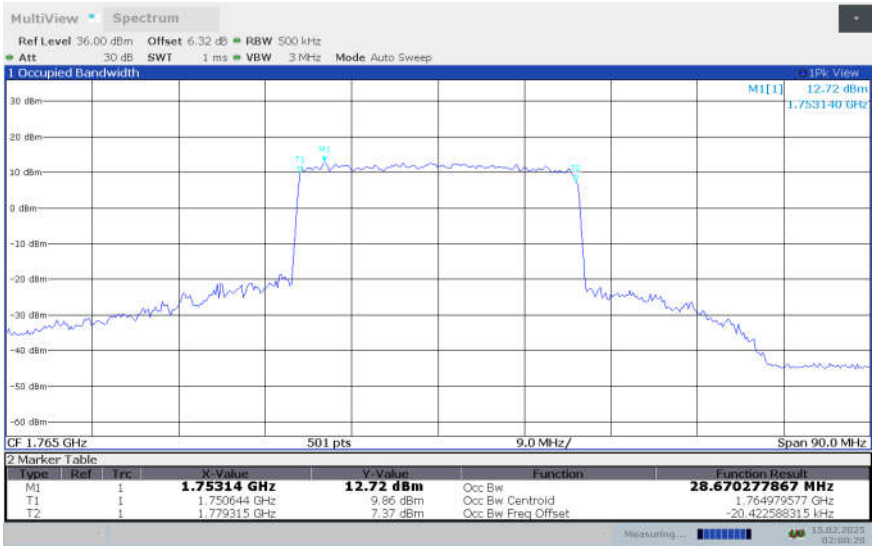


n66,30MHz Bandwidth,CP-64QAM (99% OBW)



n66,30MHz Bandwidth,CP-256QAM (99% OBW)

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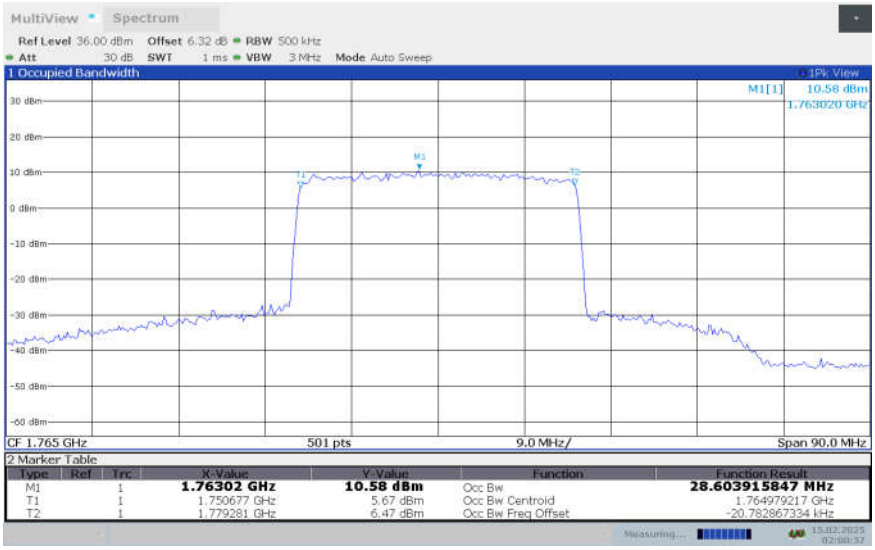

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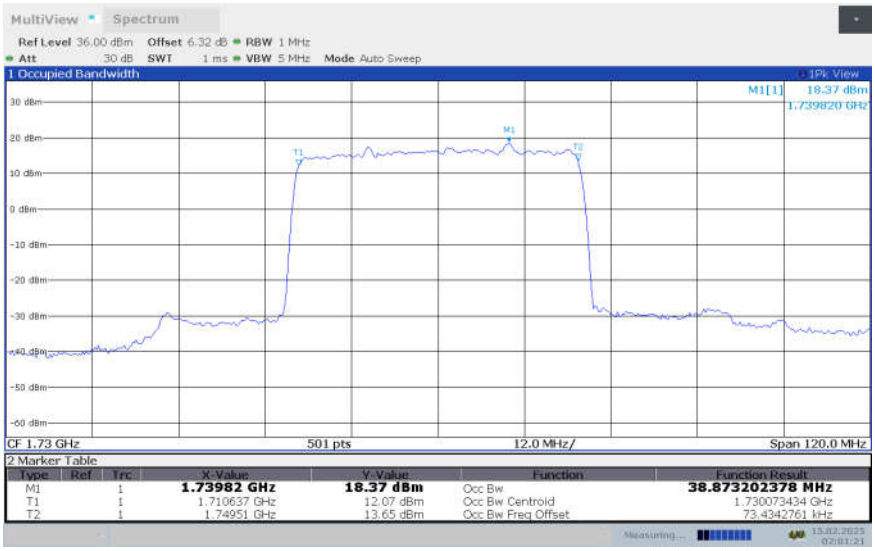
n66

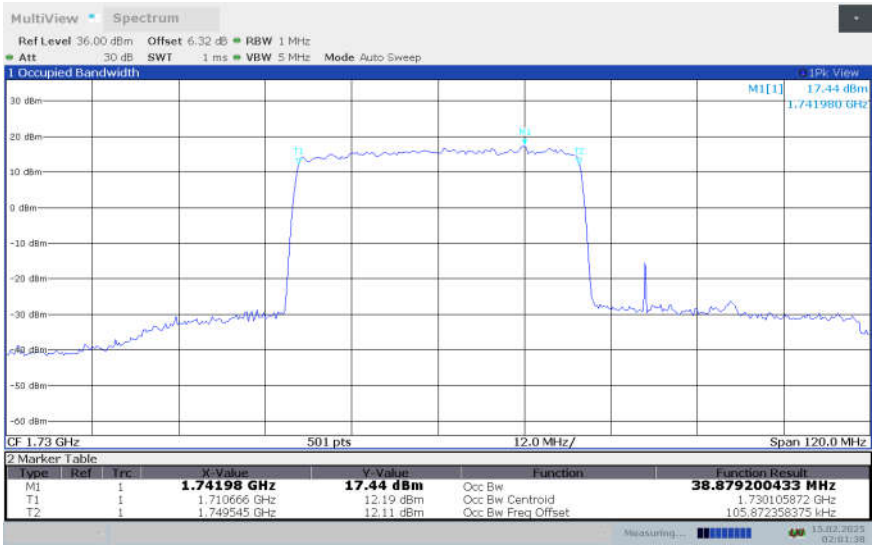
n66,40MHz(99% OBW)

Frequency (MHz)	Occupied Bandwidth (99% OBW) (MHz)								
	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1730	38.873	38.879	38.875	38.793	38.958	38.757	38.774	38.795	38.855
1745	39.004	39.011	39.021	38.869	39.084	38.842	38.903	38.948	38.938
1760	38.893	38.873	38.906	38.800	38.918	38.759	38.848	38.876	38.855

n66,40MHz Bandwidth,DFT-s-pi/2 BPSK (99% OBW)



n66,40MHz Bandwidth,DFT-s-QPSK (99% OBW)



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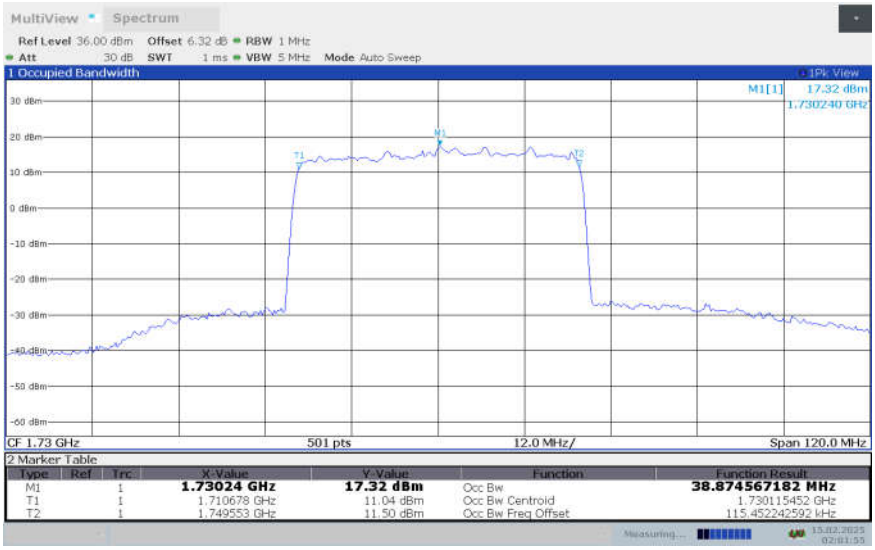
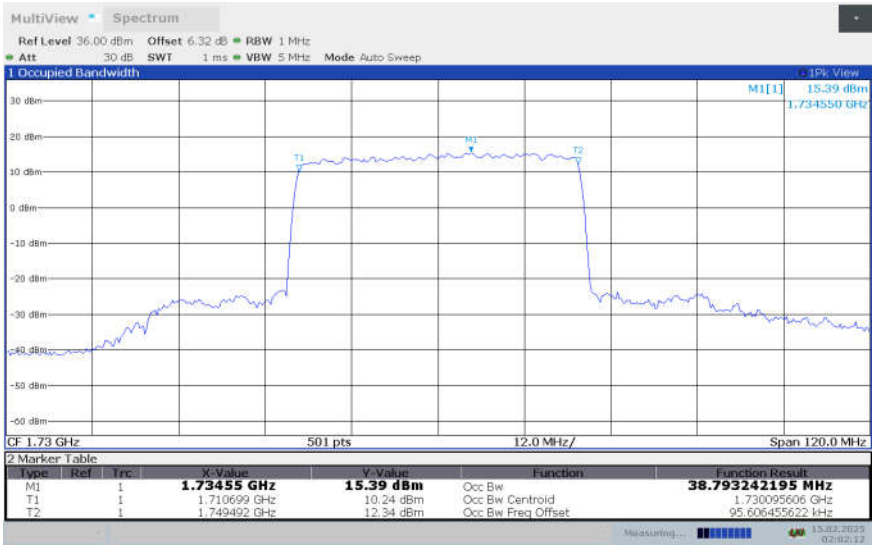
n66,40MHz Bandwidth,DFT-s-16QAM (99% OBW)



n66,40MHz Bandwidth,DFT-s-64QAM (99% OBW)



n66,40MHz Bandwidth,DFT-s-256QAM (99% OBW)

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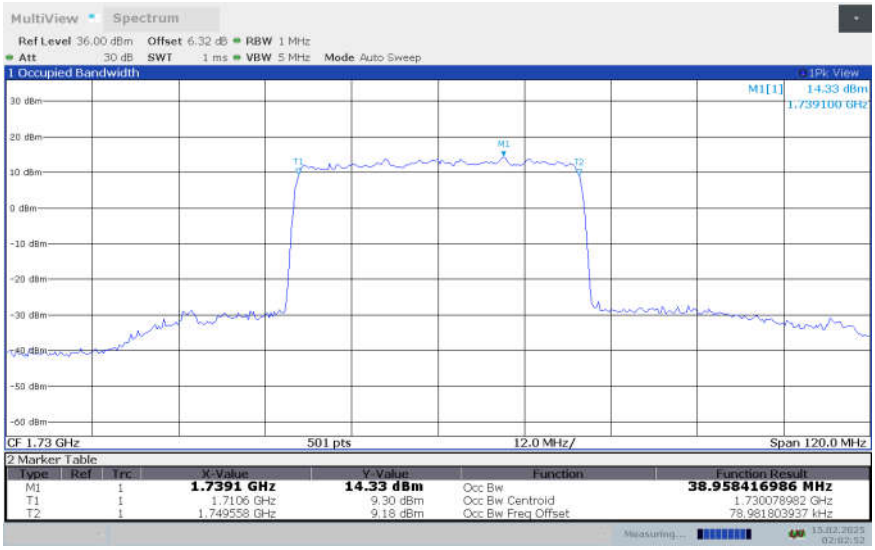
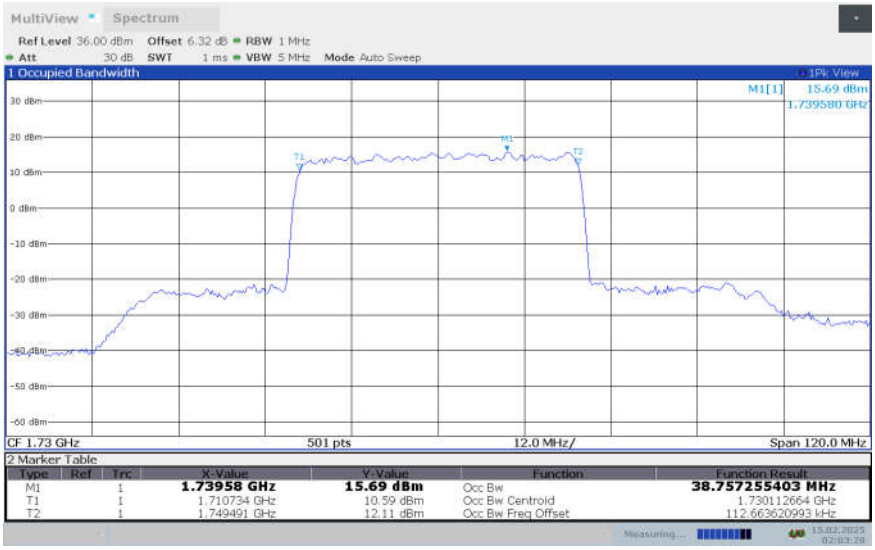


n66,40MHz Bandwidth,CP-QPSK (99% OBW)



n66,40MHz Bandwidth,CP-16QAM (99% OBW)

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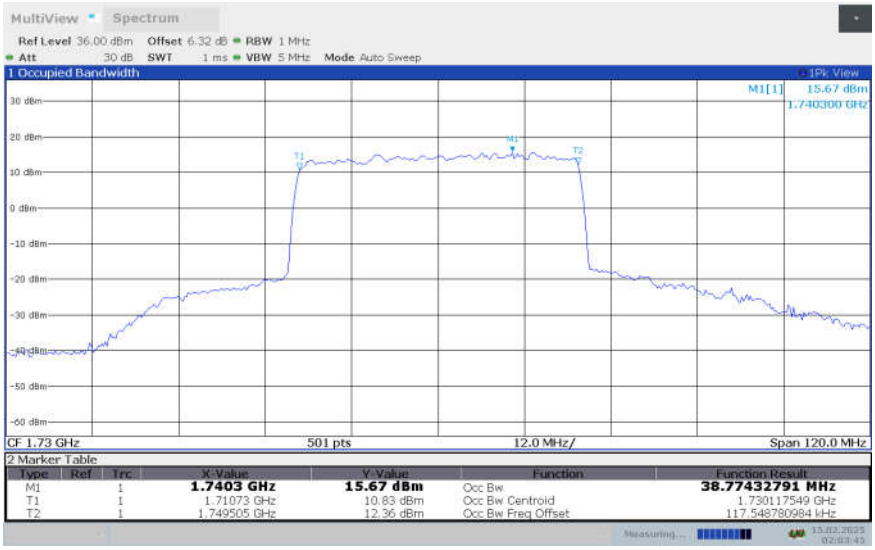
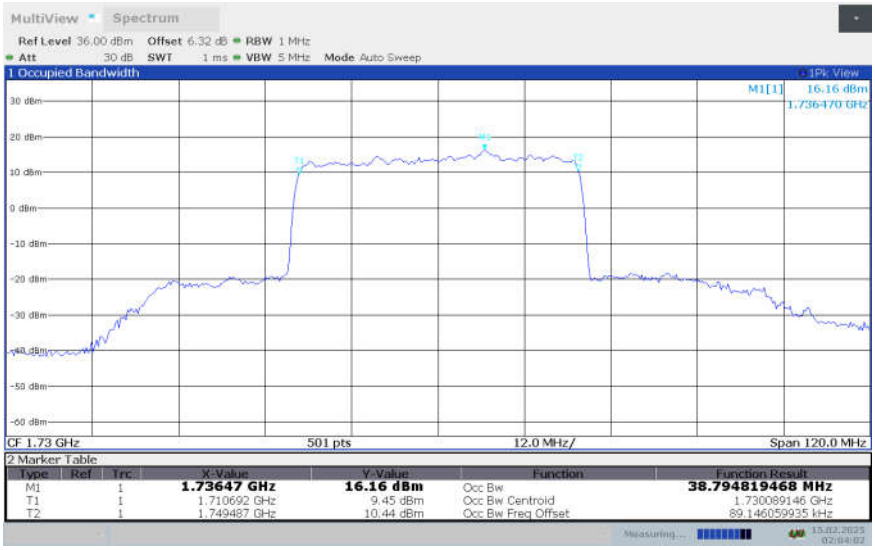


n66,40MHz Bandwidth,CP-64QAM (99% OBW)



n66,40MHz Bandwidth,CP-256QAM (99% OBW)

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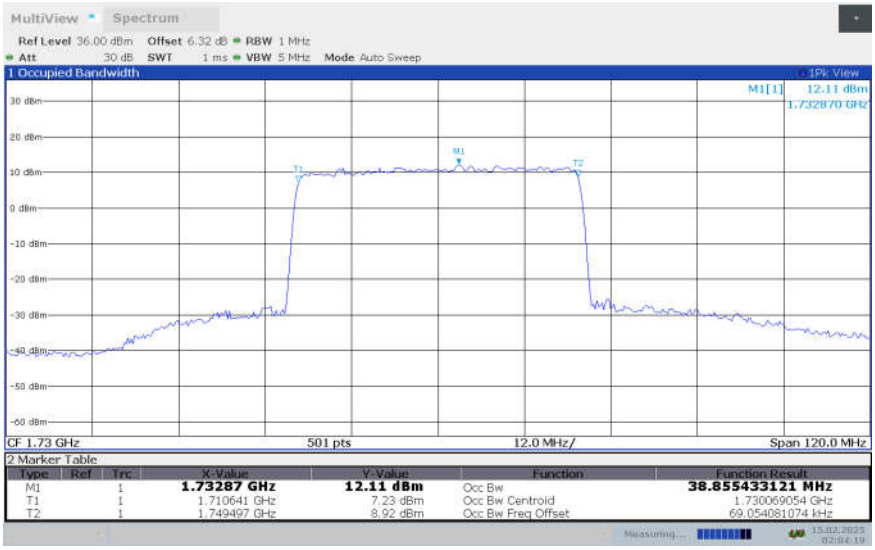

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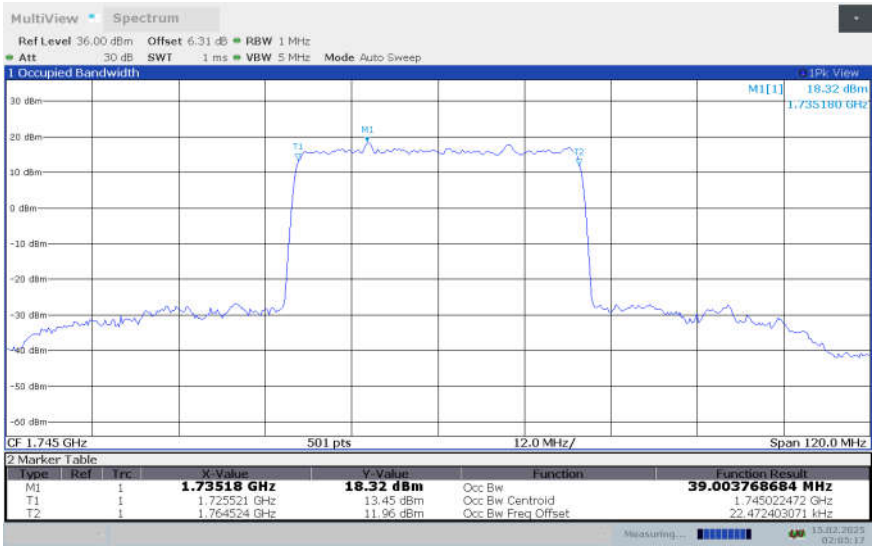

n66,40MHz Bandwidth,DFT-s-QPSK (99% OBW)

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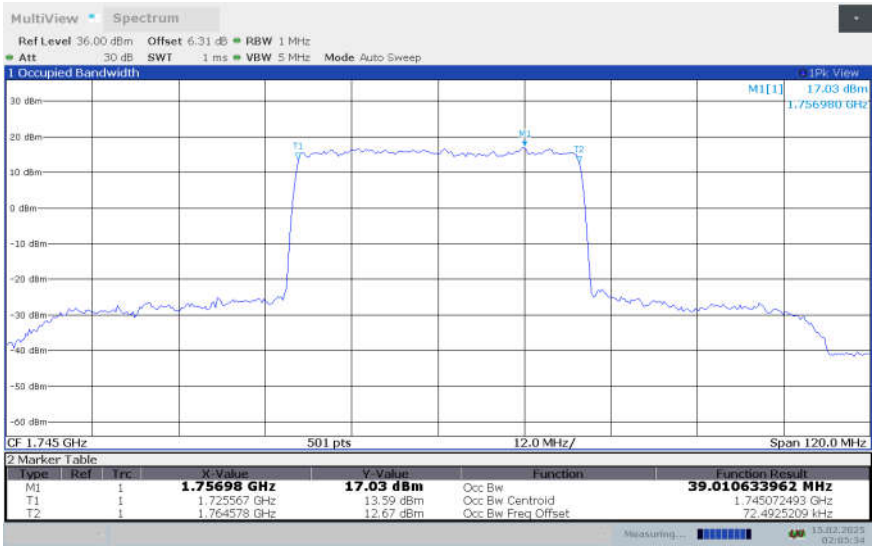
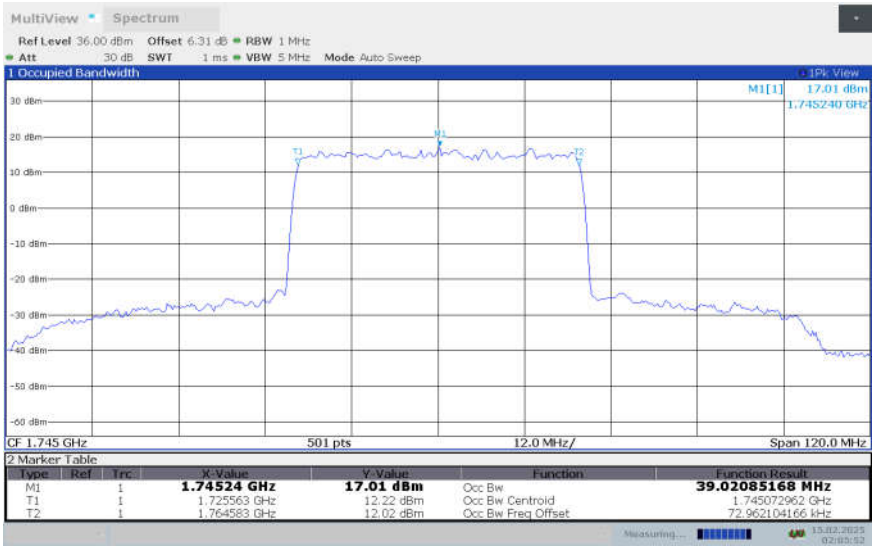


n66,40MHz Bandwidth,DFT-s-16QAM (99% OBW)



n66,40MHz Bandwidth,DFT-s-64QAM (99% OBW)

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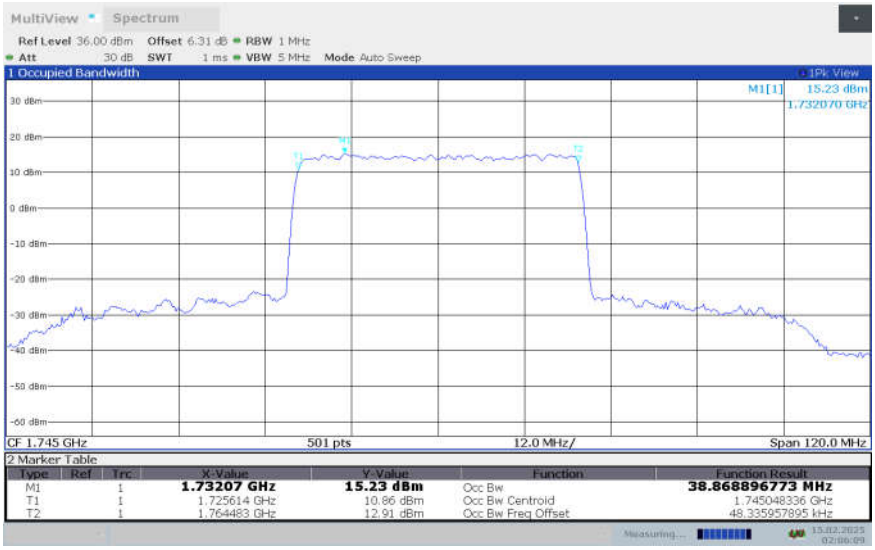
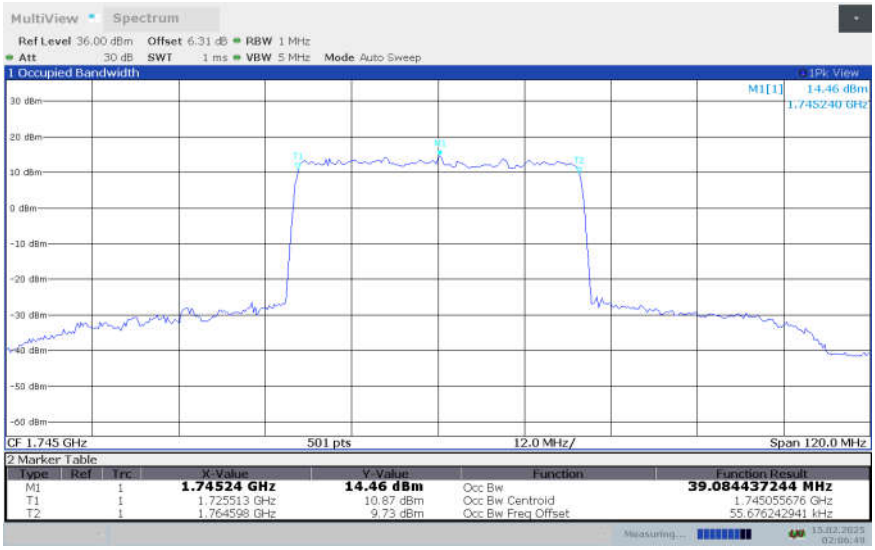


n66,40MHz Bandwidth,DFT-s-256QAM (99% OBW)



n66,40MHz Bandwidth,CP-QPSK (99% OBW)

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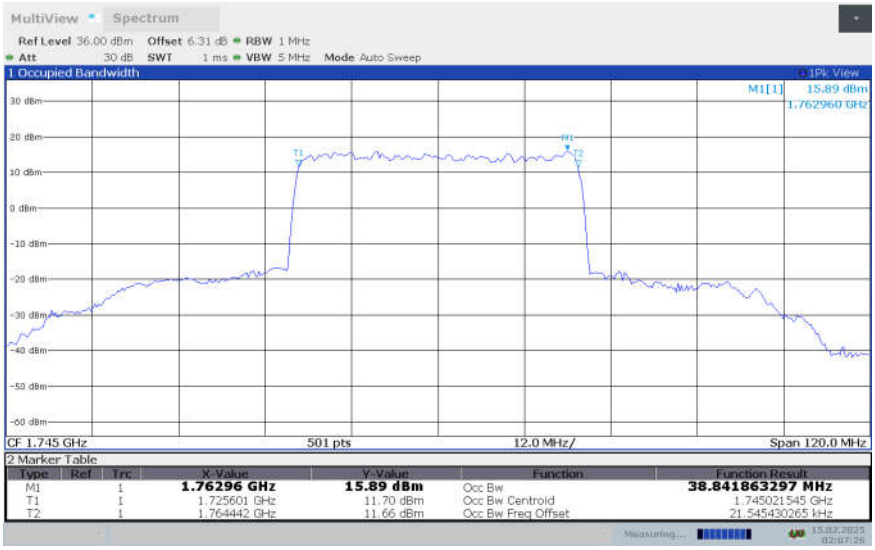
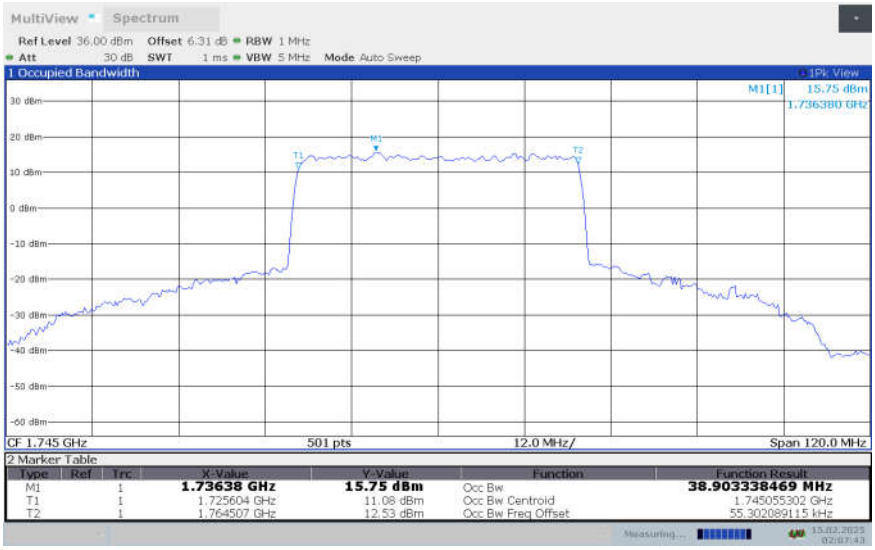


n66,40MHz Bandwidth,CP-16QAM (99% OBW)



n66,40MHz Bandwidth,CP-64QAM (99% OBW)

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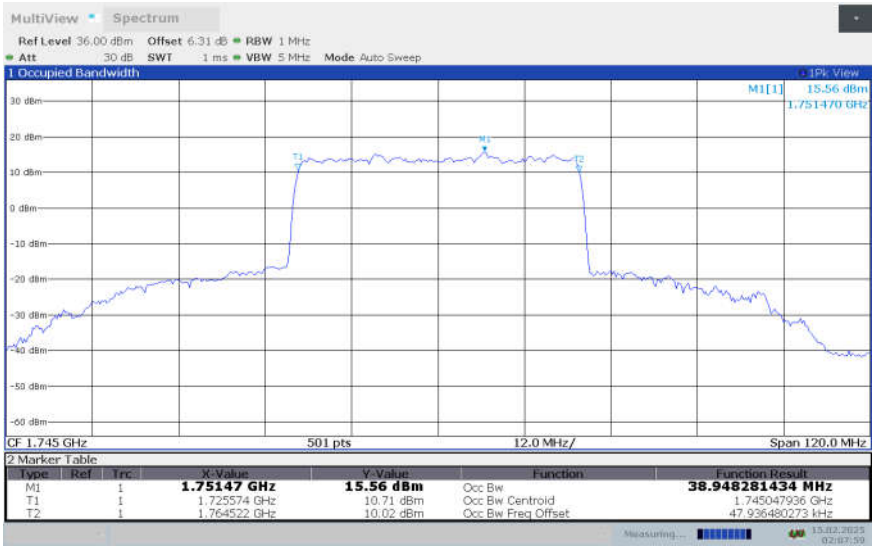
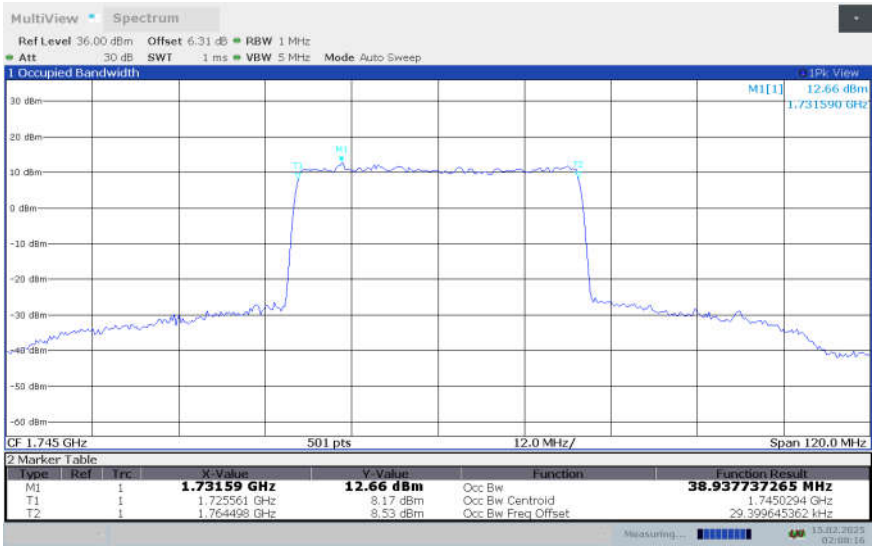


n66,40MHz Bandwidth,CP-256QAM (99% OBW)



n66,40MHz Bandwidth,DFT-s-pi/2 BPSK (99% OBW)

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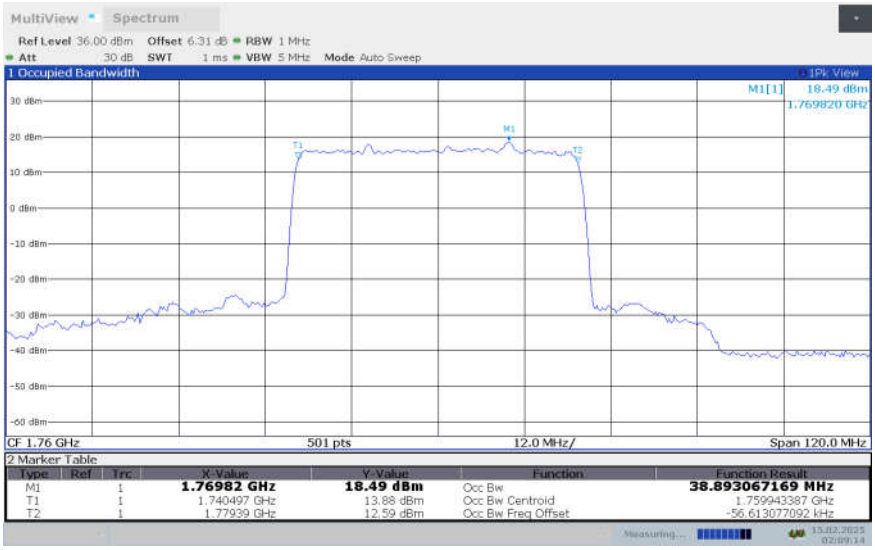
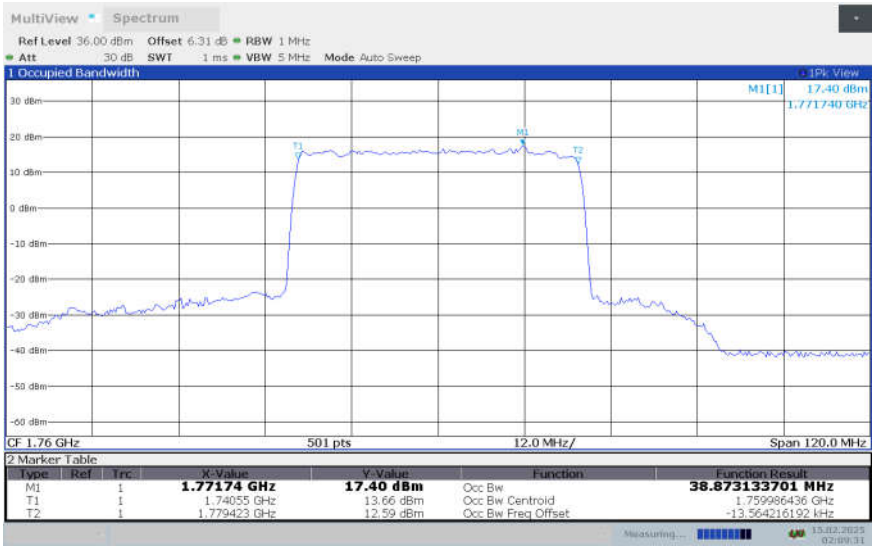


n66,40MHz Bandwidth,DFT-s-QPSK (99% OBW)



n66,40MHz Bandwidth,DFT-s-16QAM (99% OBW)

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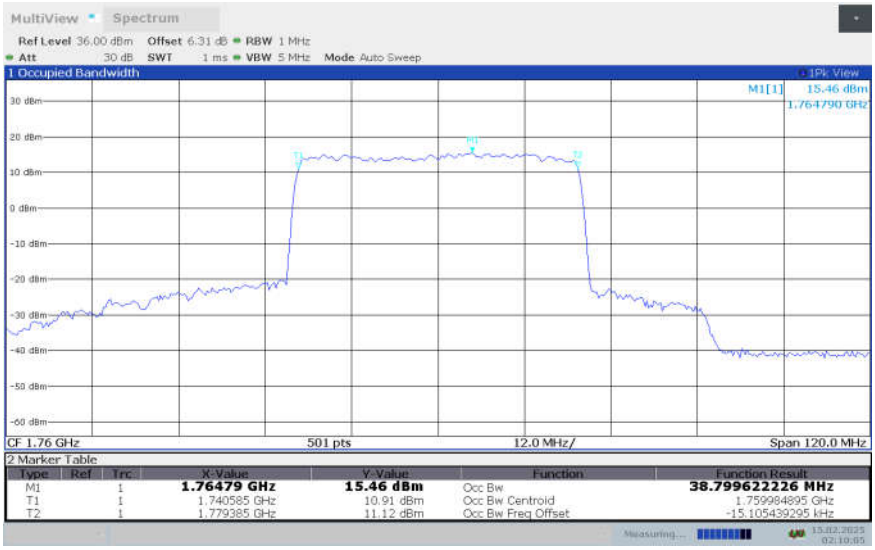
n66,40MHz Bandwidth,DFT-s-64QAM (99% OBW)



n66,40MHz Bandwidth,DFT-s-256QAM (99% OBW)

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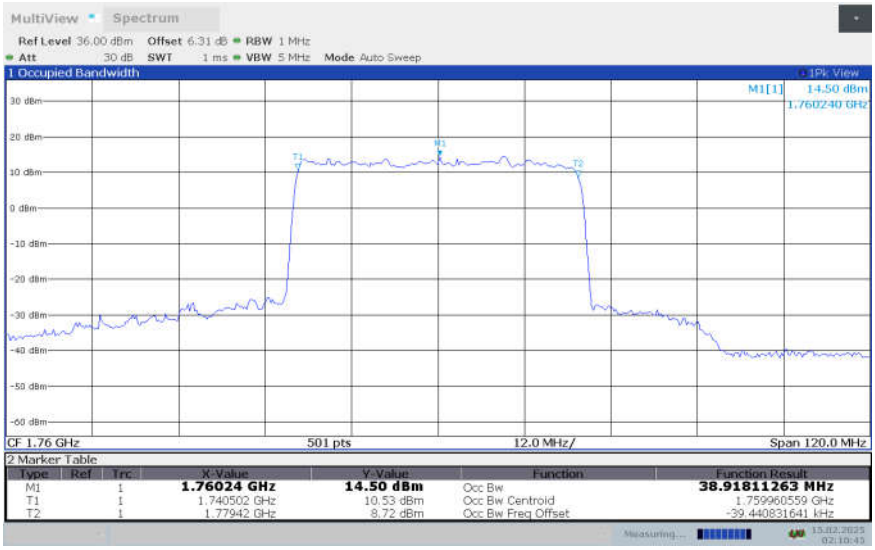
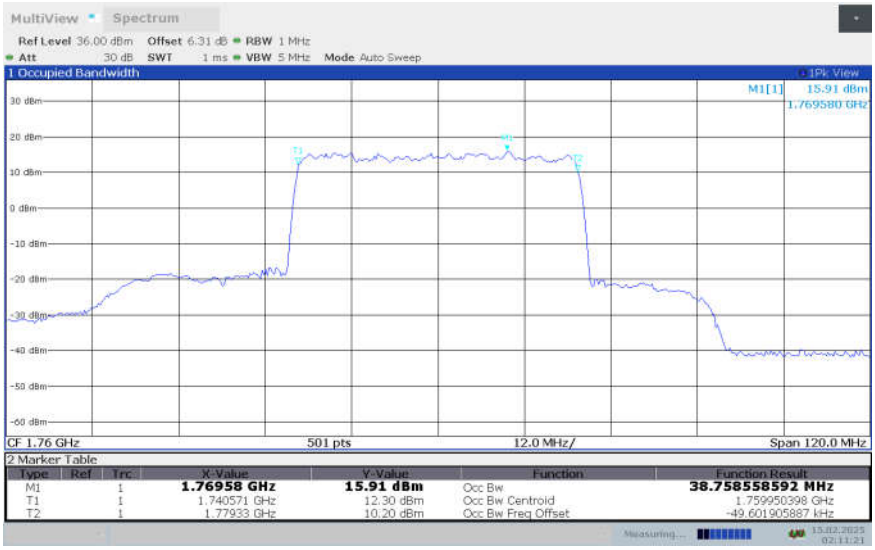


n66,40MHz Bandwidth,CP-QPSK (99% OBW)



n66,40MHz Bandwidth,CP-16QAM (99% OBW)

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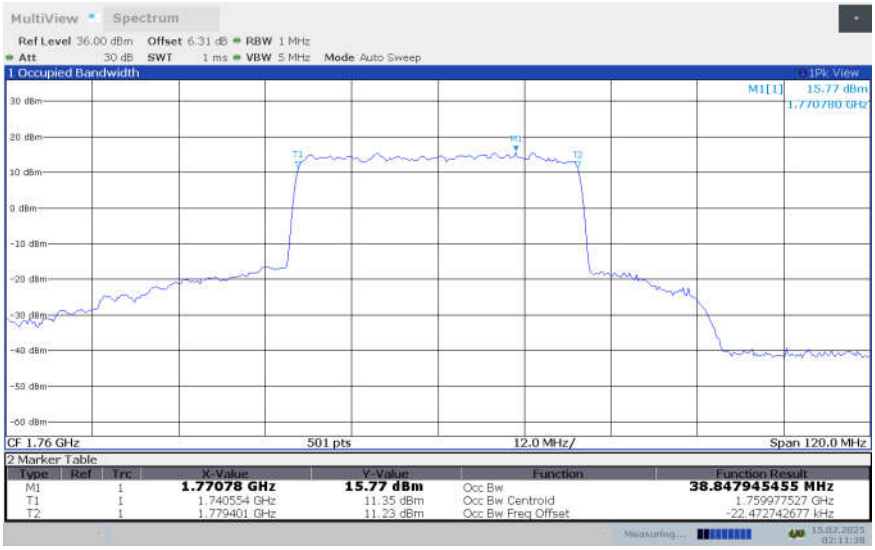

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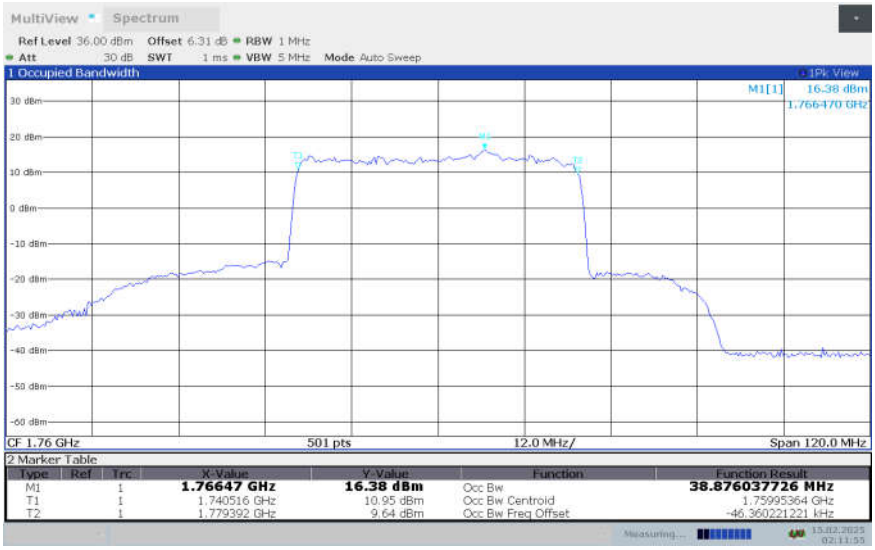

n66,40MHz Bandwidth,CP-256QAM (99% OBW)

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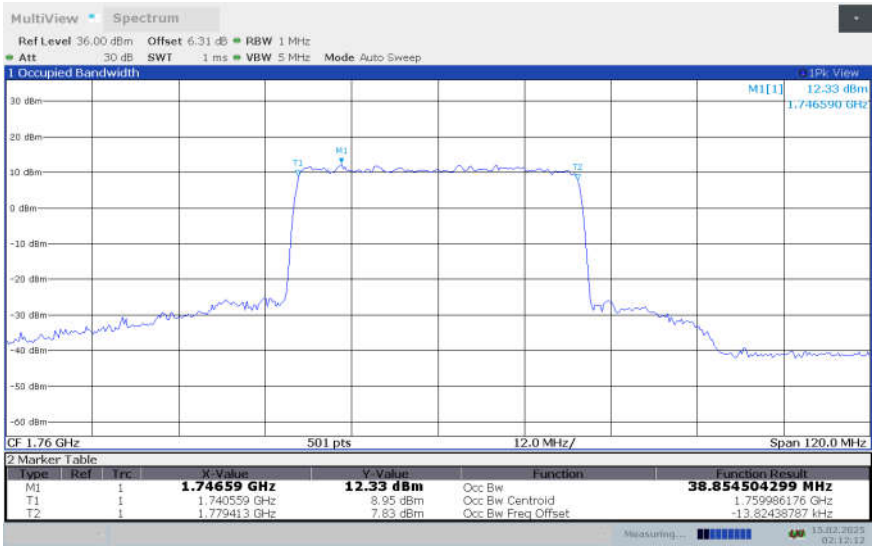

Note: Expanded measurement uncertainty is U = 3428 Hz, k = 2

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A.5 EMISSION BANDWIDTH

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. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.

b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.

d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "−X dB" requirement, i.e., if the requirement calls for measuring the −26 dB OBW,the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.

e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

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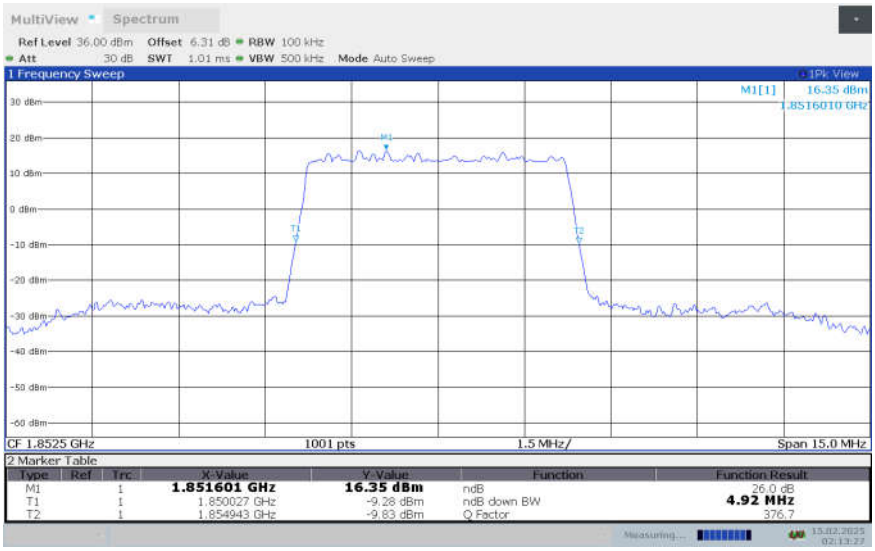
n2

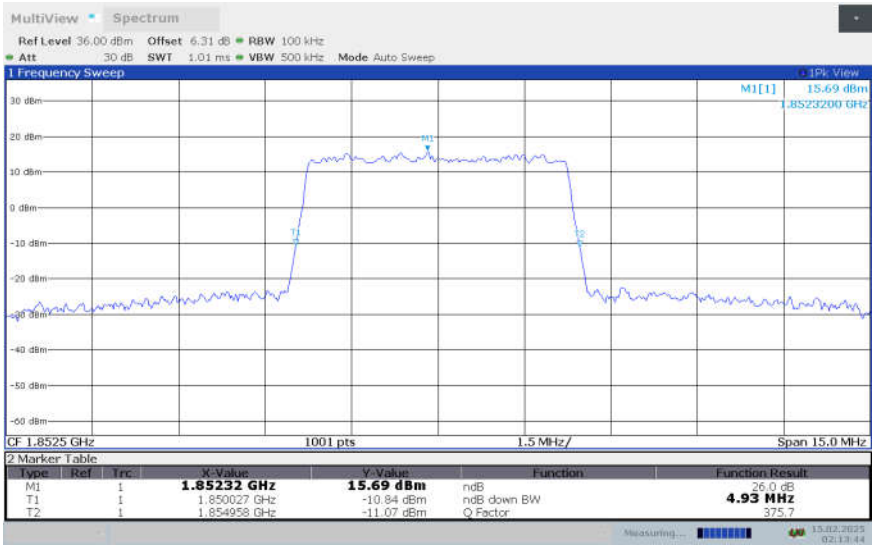
n2,5MHz(-26dBc OBW)

Frequency (MHz)	Emission Bandwidth (-26dBc OBW) (MHz)								
	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1852.5	4.915	4.930	4.915	4.915	4.915	4.945	4.945	4.930	4.945
1880	4.915	4.930	4.915	4.930	4.930	4.945	4.960	4.900	4.930
1907.5	4.915	4.945	4.960	4.915	4.900	4.975	4.915	4.945	4.930

n2,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



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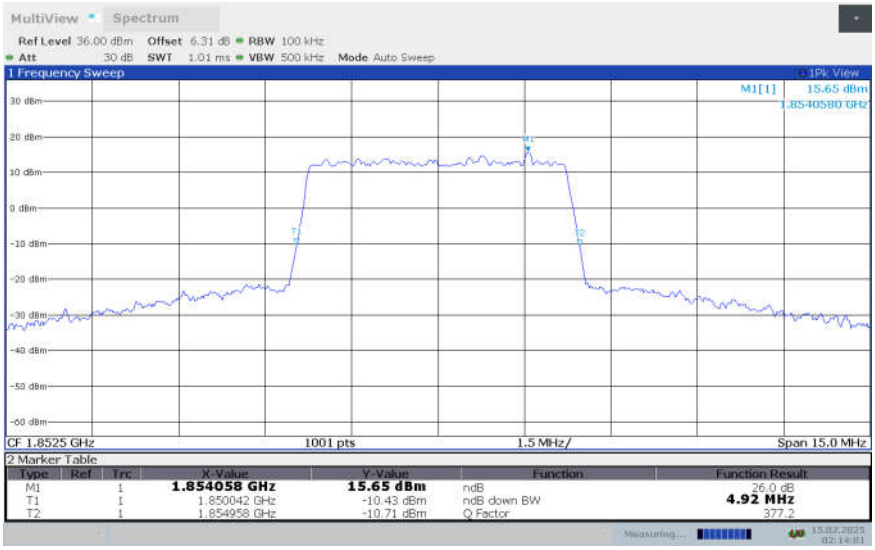
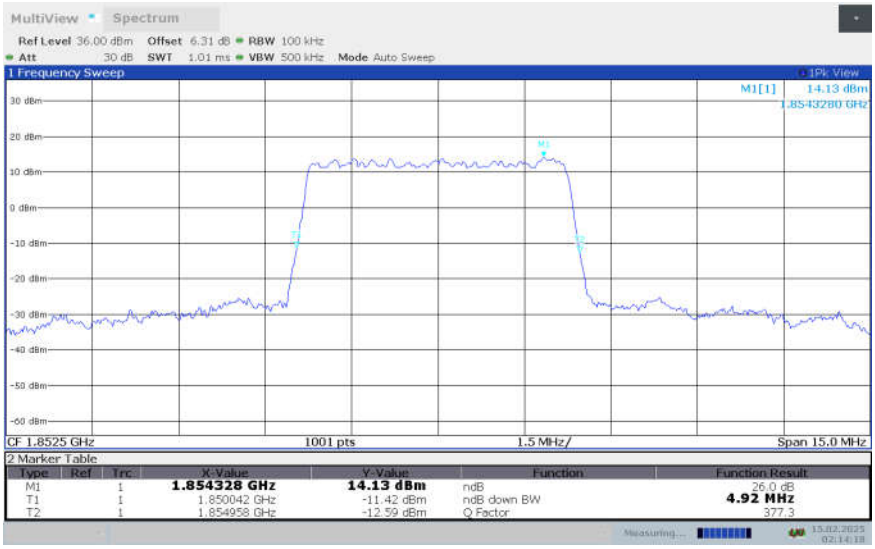
n2,5MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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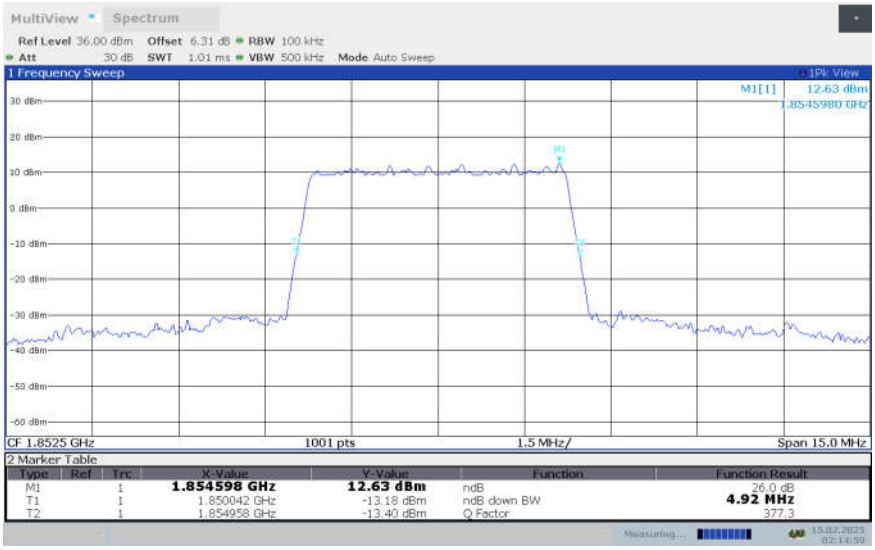
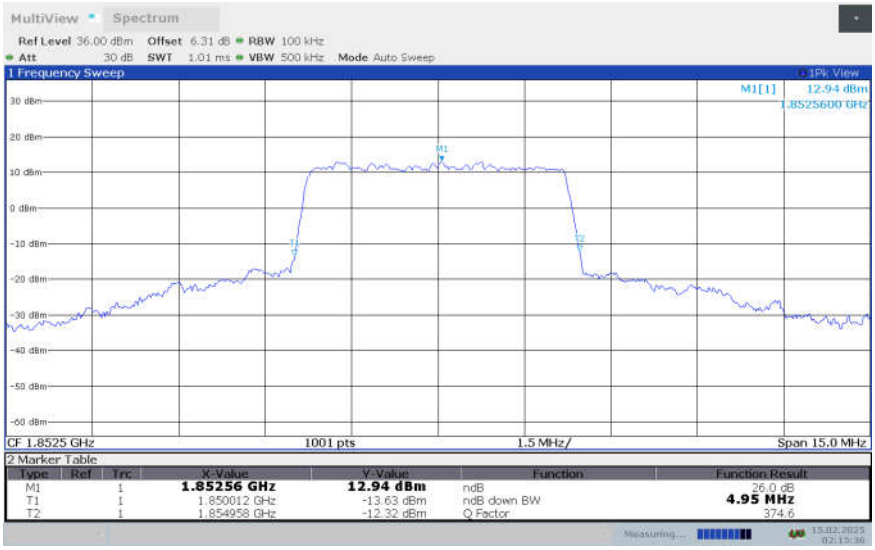


n2,5MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,5MHz Bandwidth,CP-16QAM (-26dBc OBW)

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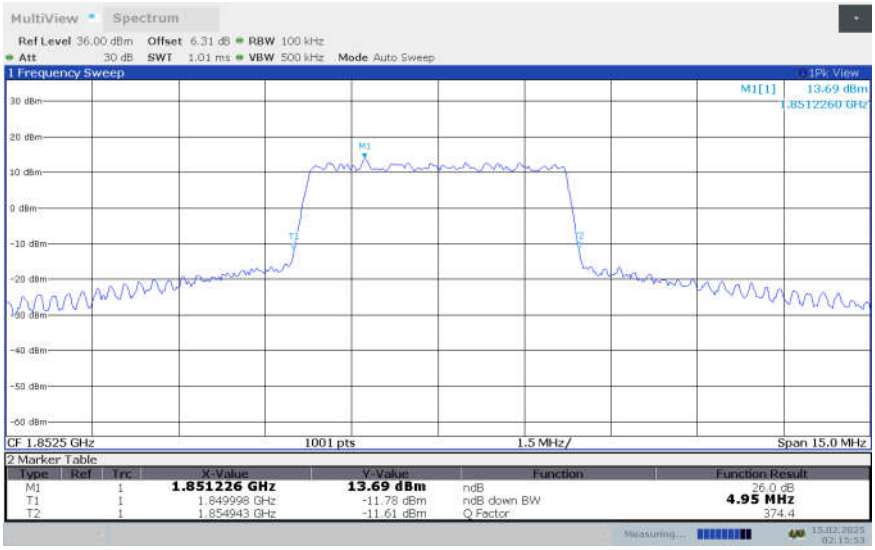
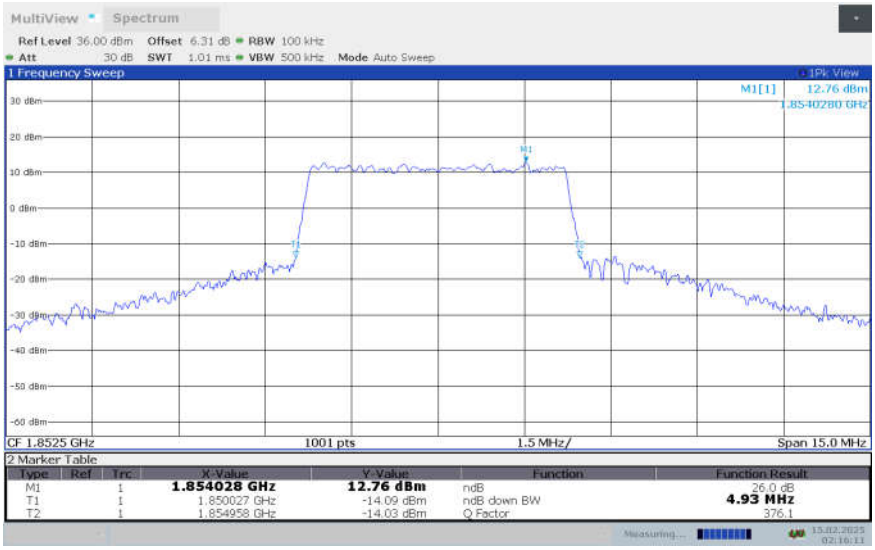


n2,5MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,5MHz Bandwidth,CP-256QAM (-26dBc OBW)

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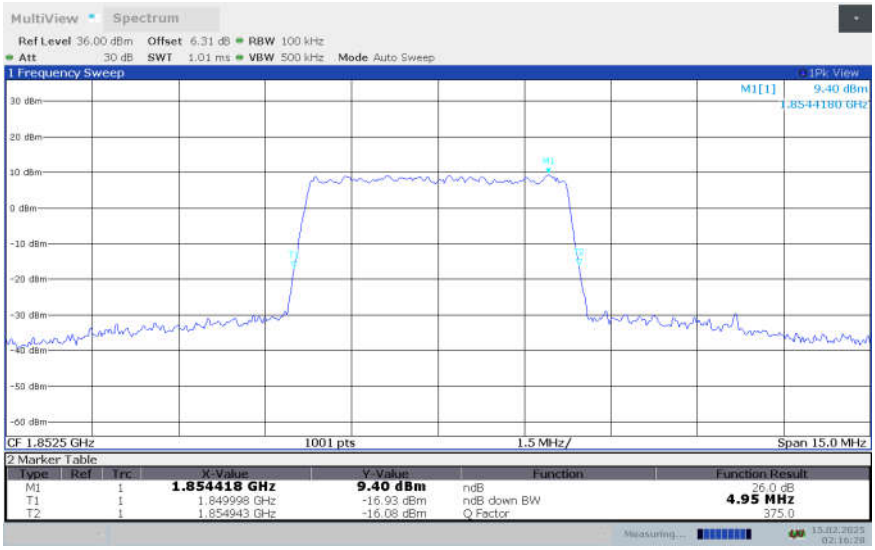
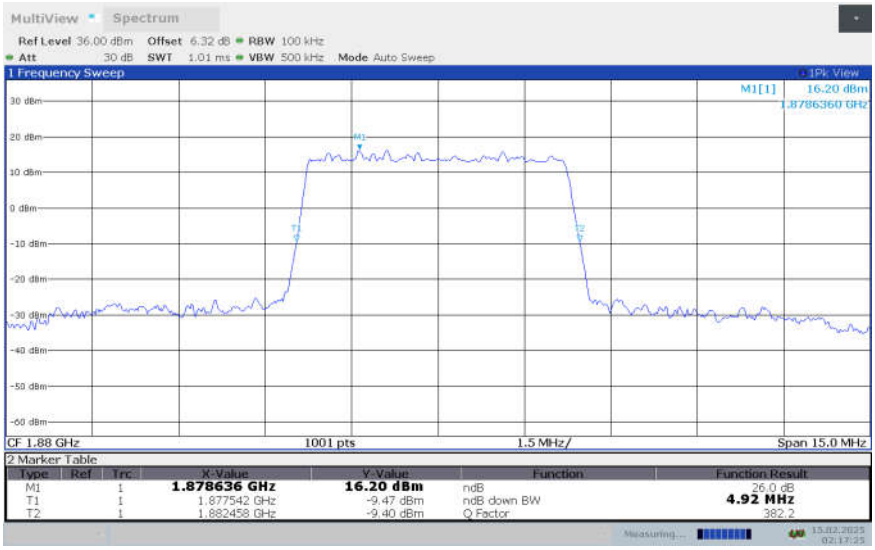


n2,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)

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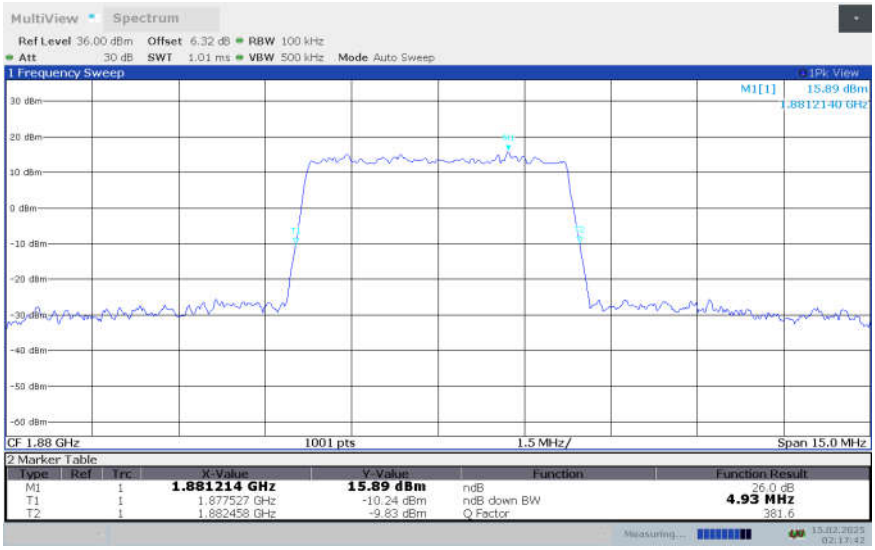
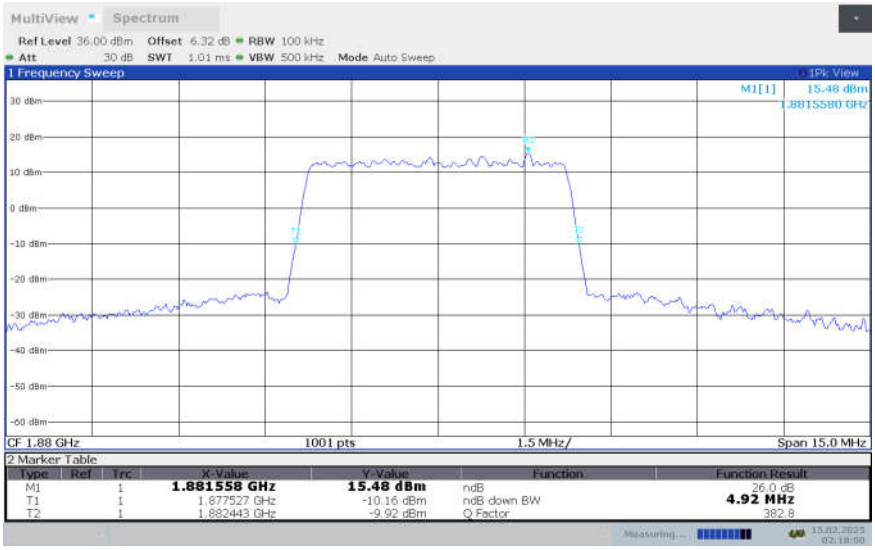


n2,5MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)

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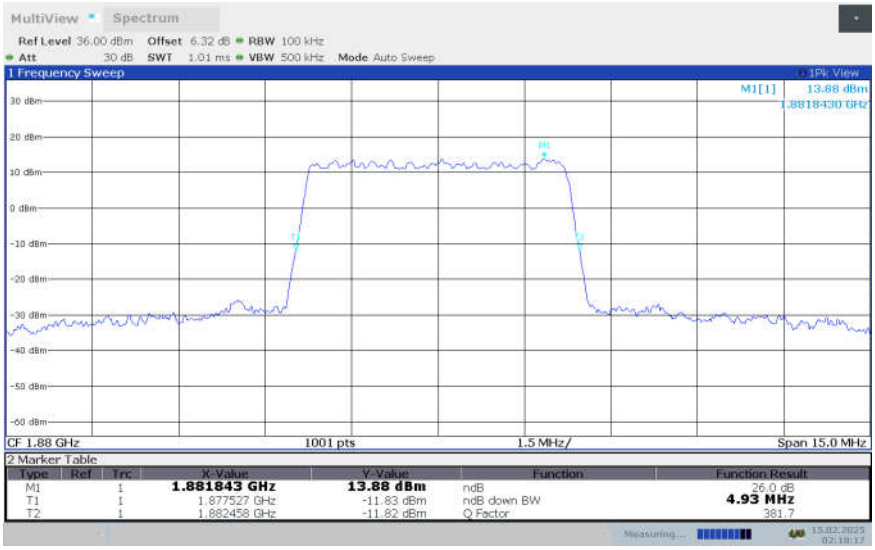
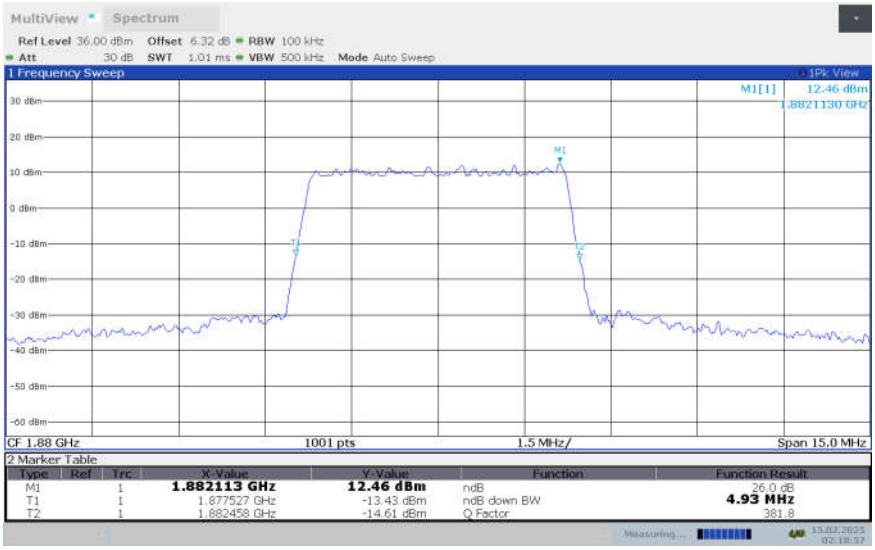


n2,5MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)



n2,5MHz Bandwidth,CP-QPSK (-26dBc OBW)

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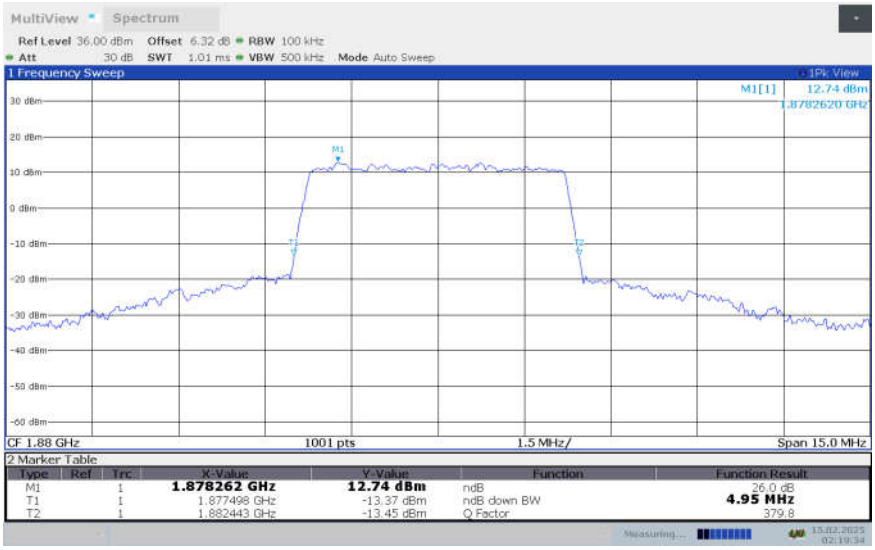
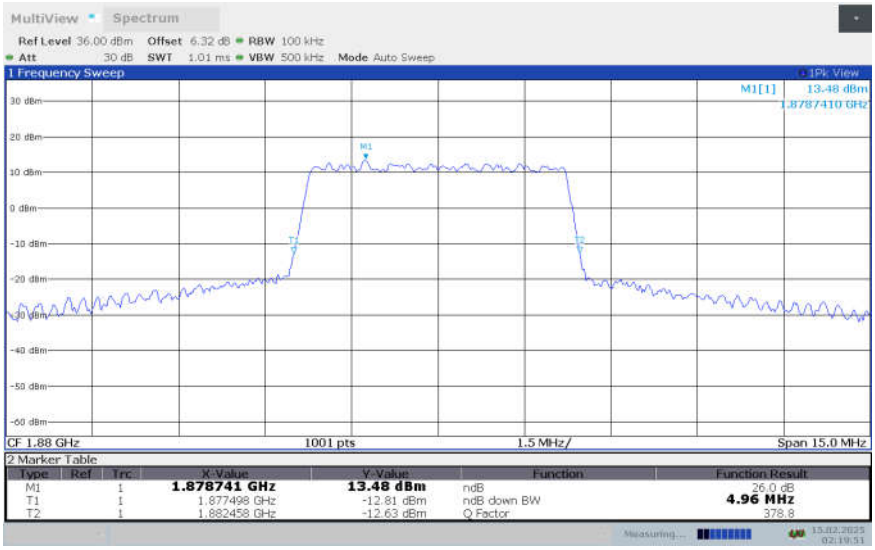


n2,5MHz Bandwidth,CP-16QAM (-26dBc OBW)



n2,5MHz Bandwidth,CP-64QAM (-26dBc OBW)

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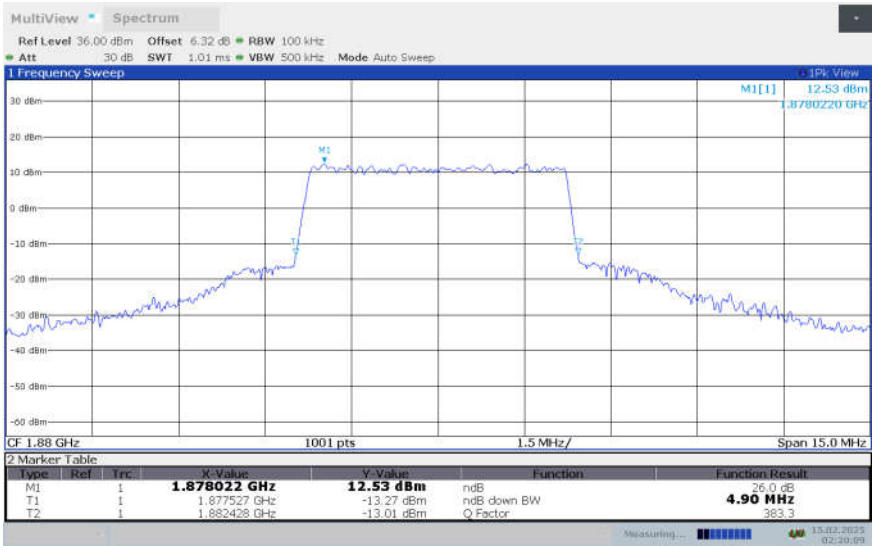
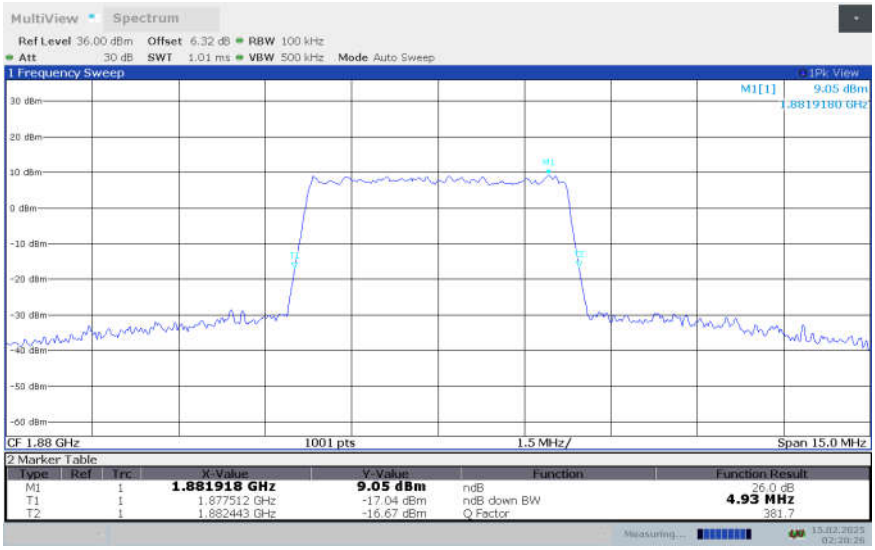


n2,5MHz Bandwidth,CP-256QAM (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)

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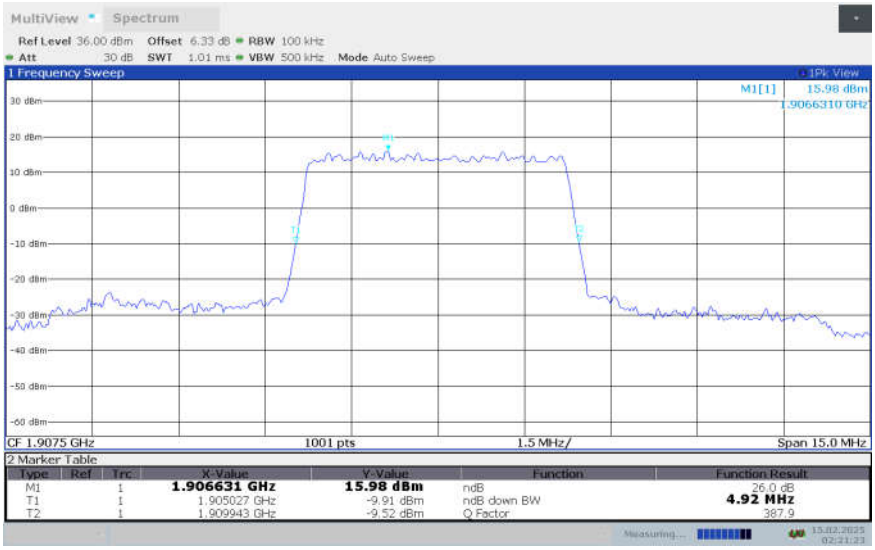
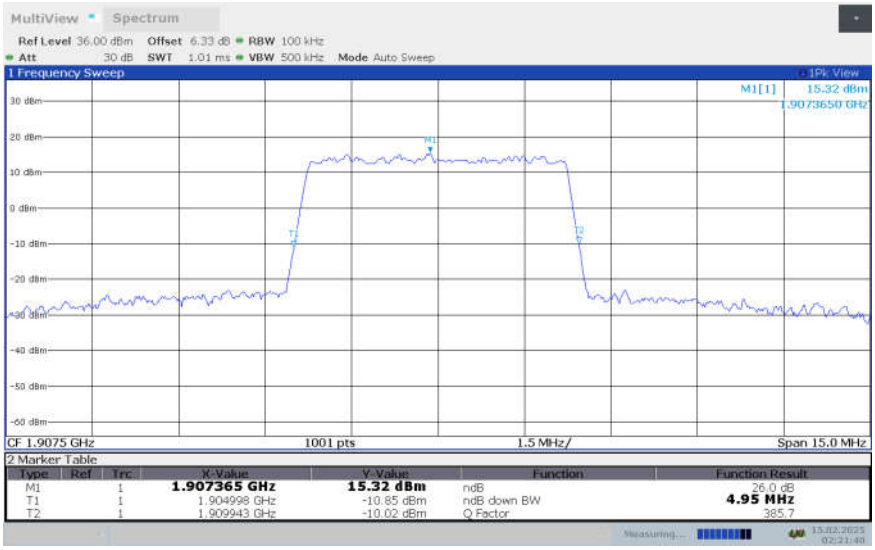


n2,5MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)

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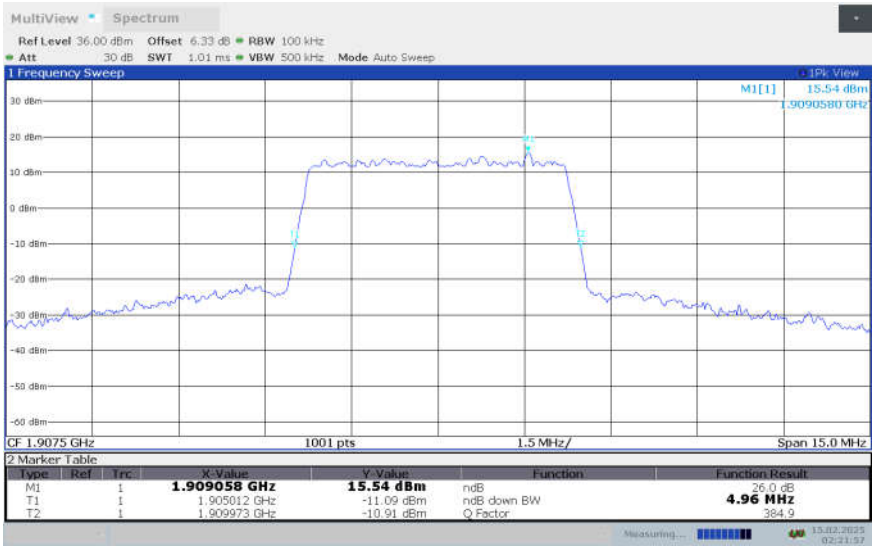
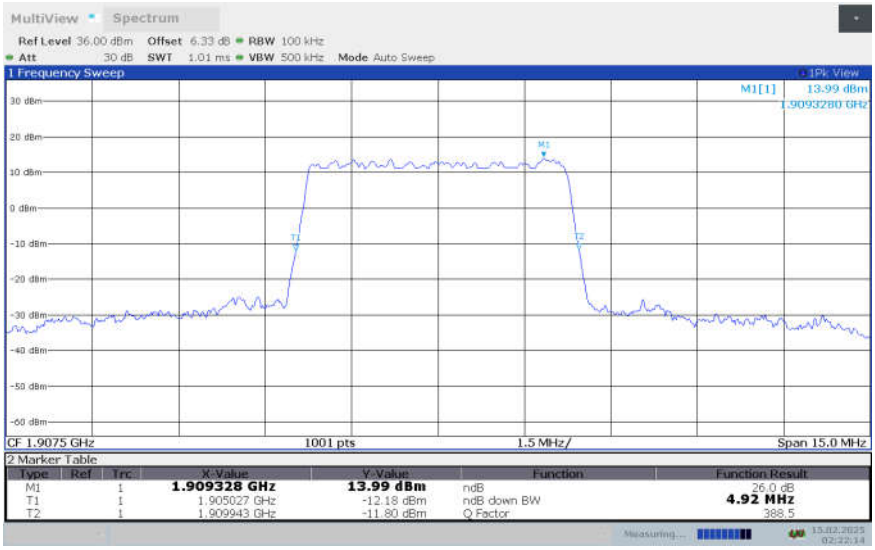


n2,5MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,5MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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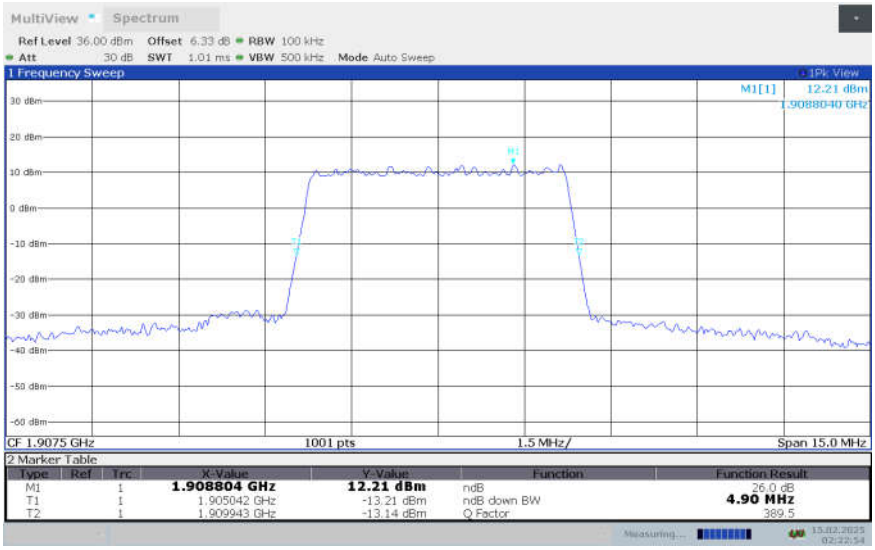
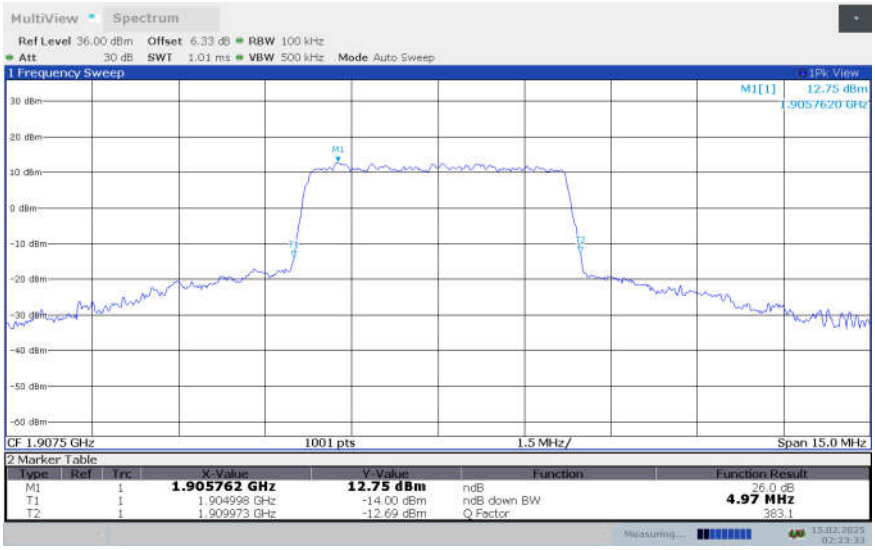


n2,5MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,5MHz Bandwidth,CP-16QAM (-26dBc OBW)

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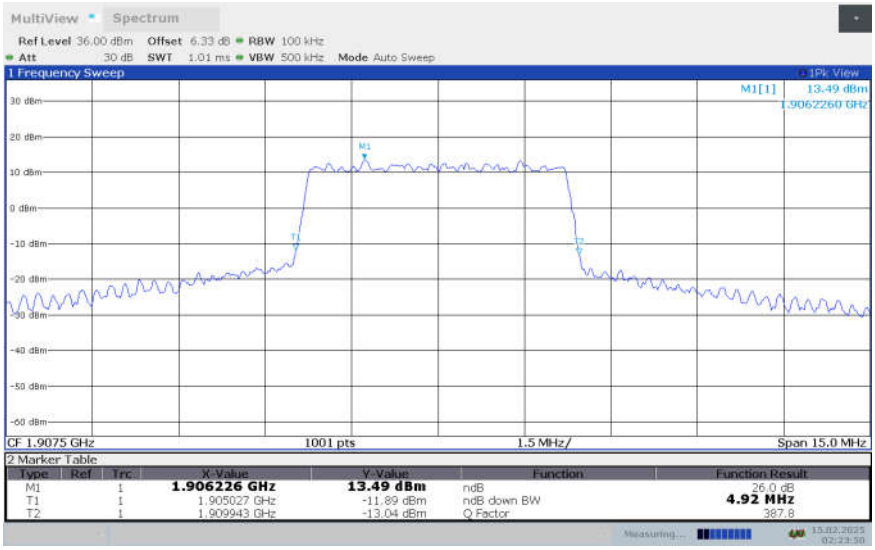
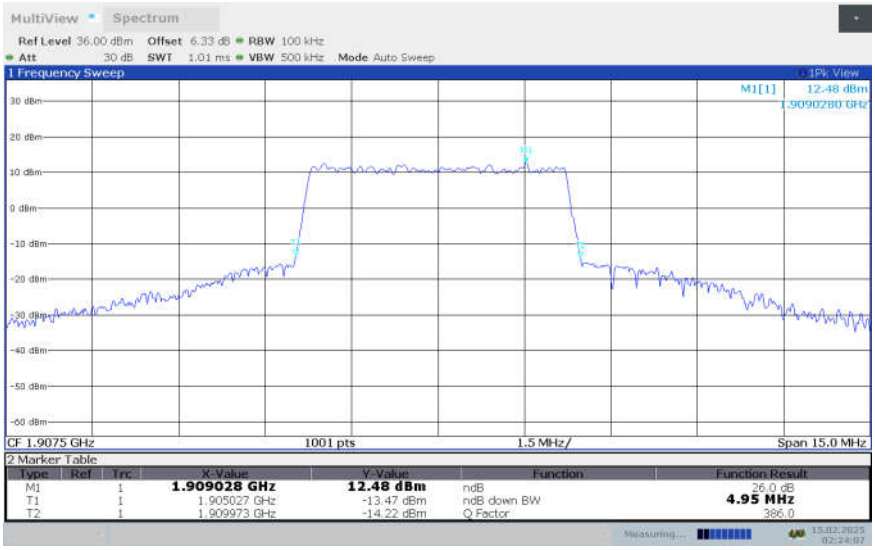


n2,5MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,5MHz Bandwidth,CP-256QAM (-26dBc OBW)

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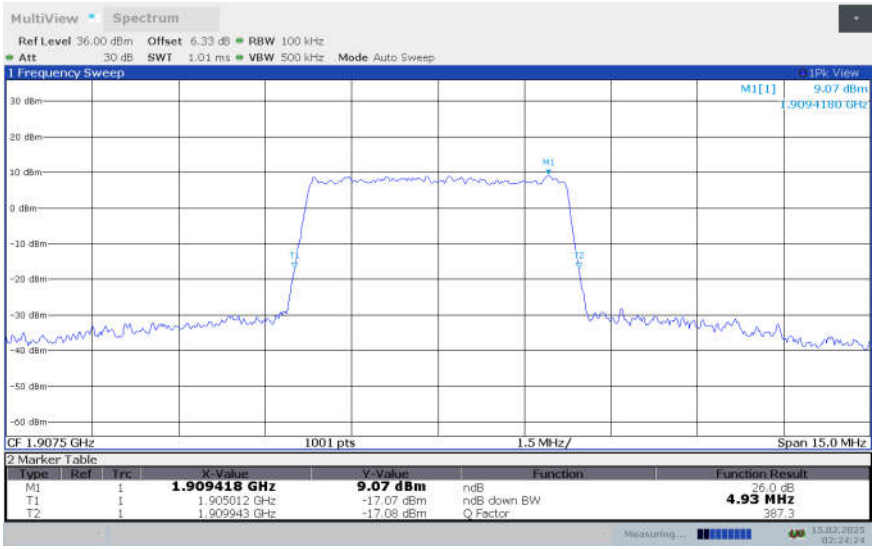

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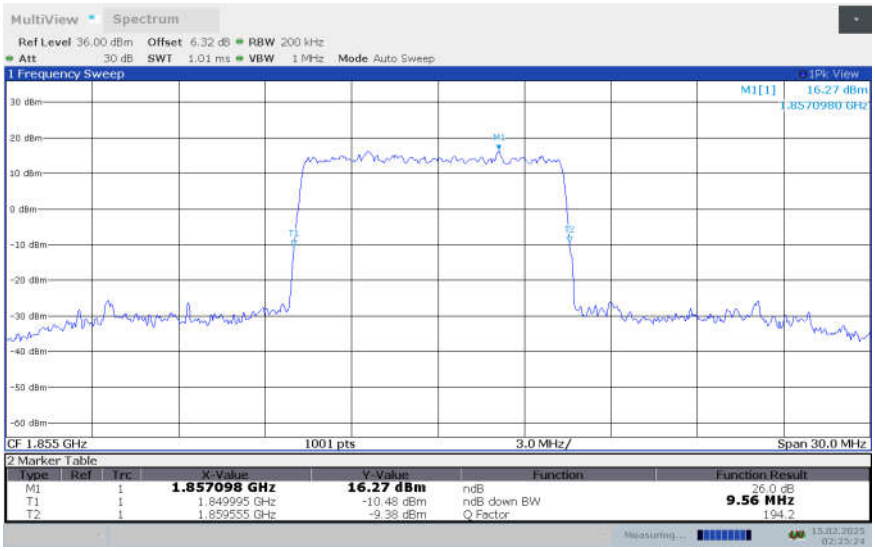
n2

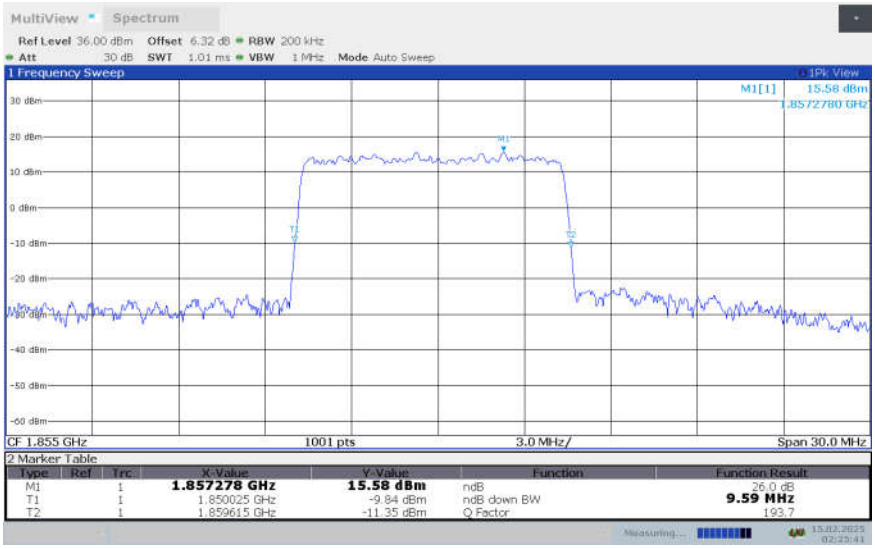
n2,10MHz(-26dBc OBW)

Frequency (MHz)	Emission Bandwidth (-26dBc OBW) (MHz)								
	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1855	9.560	9.590	9.560	9.530	9.530	9.950	9.920	9.920	9.920
1880	9.560	9.590	9.530	9.530	9.530	9.950	9.950	9.950	9.920
1905	9.560	9.590	9.560	9.530	9.560	9.980	9.980	9.920	9.920

n2,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



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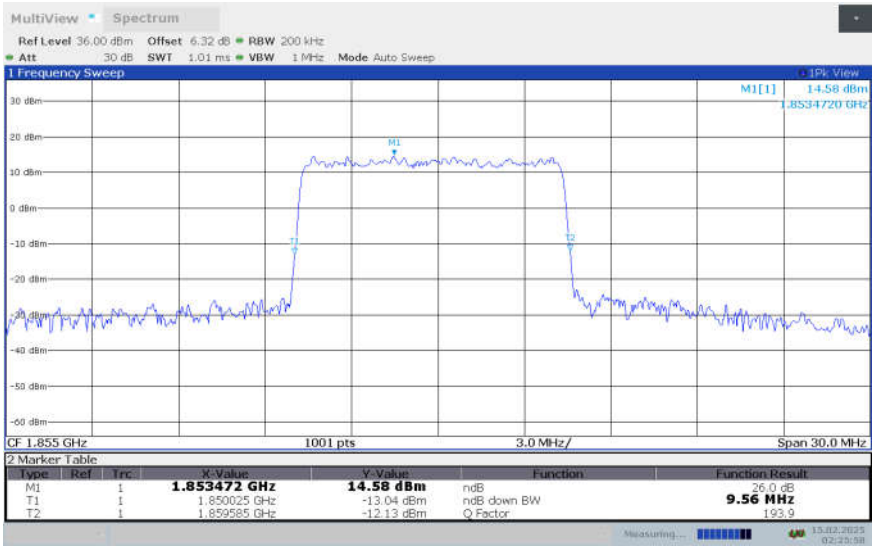
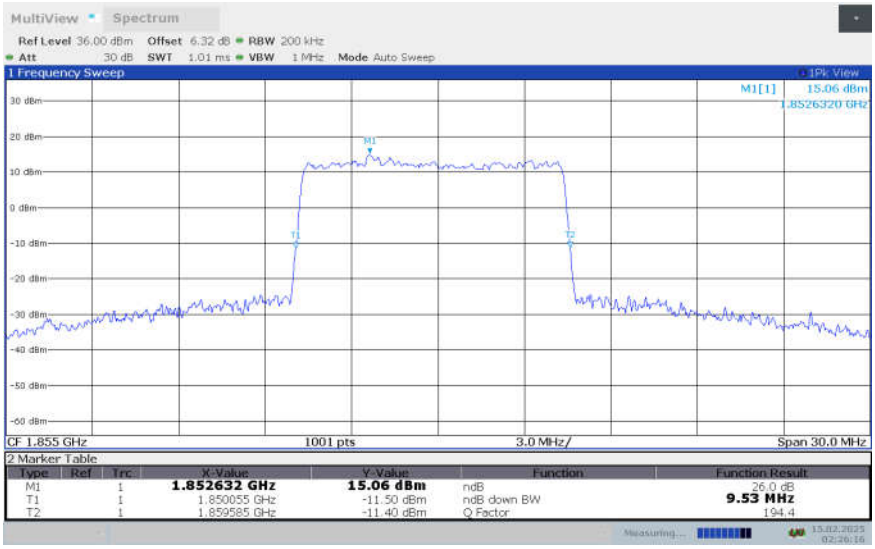
n2,10MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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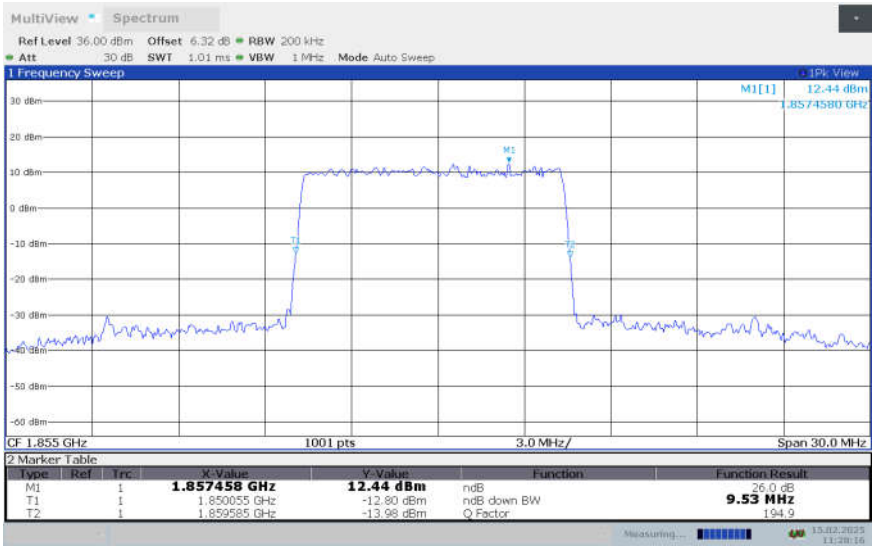
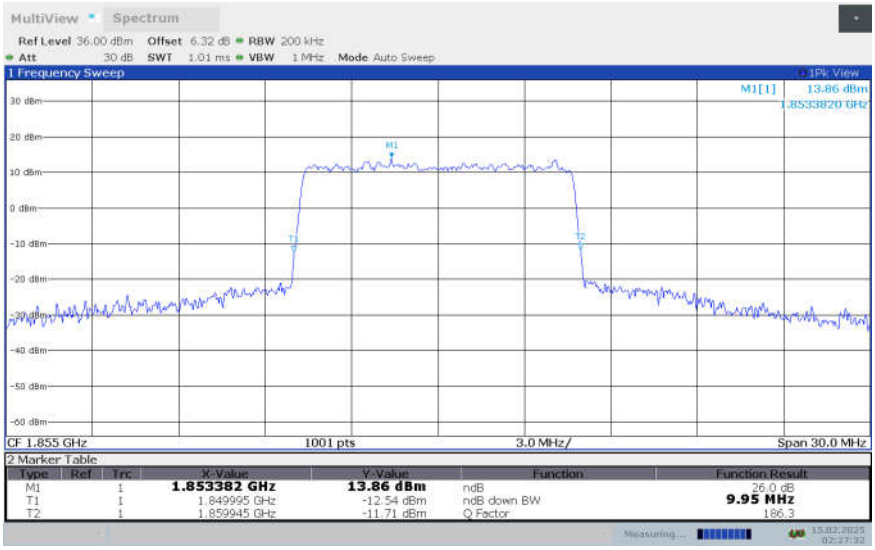


n2,10MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,10MHz Bandwidth,CP-16QAM (-26dBc OBW)

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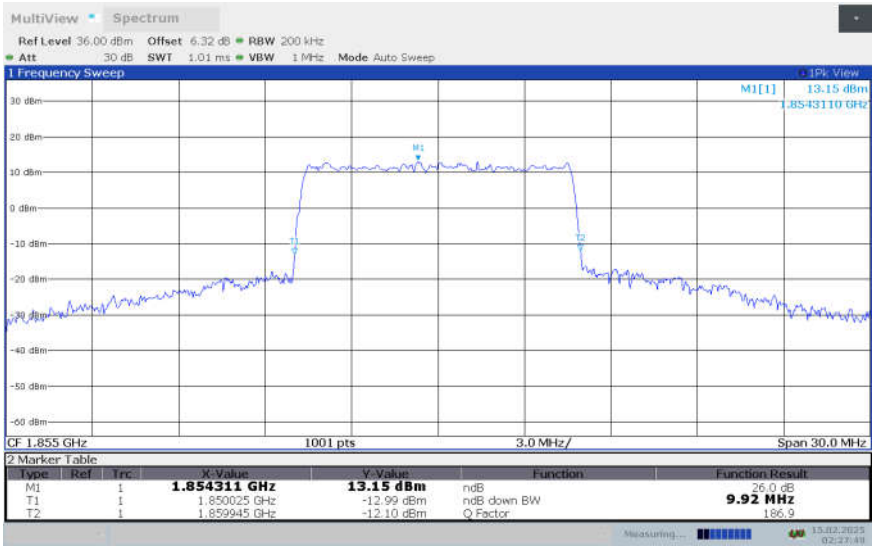
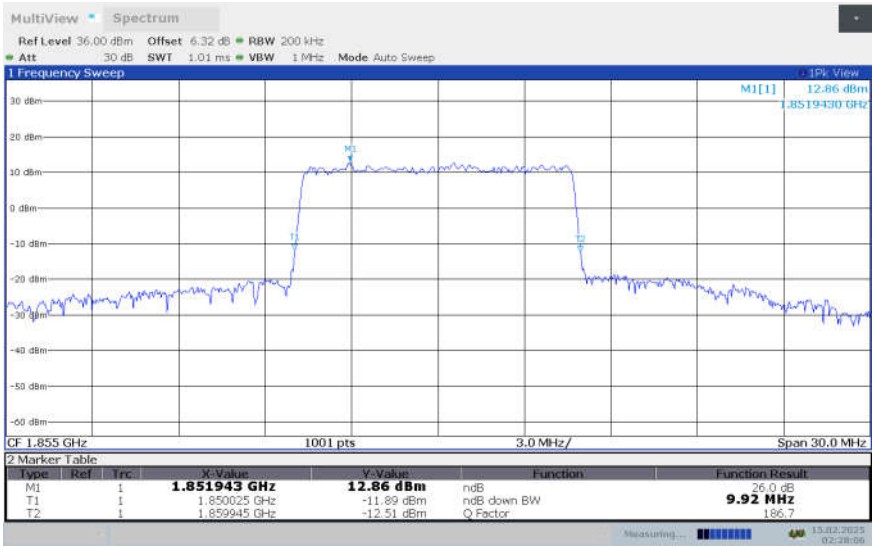


n2,10MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,10MHz Bandwidth,CP-256QAM (-26dBc OBW)

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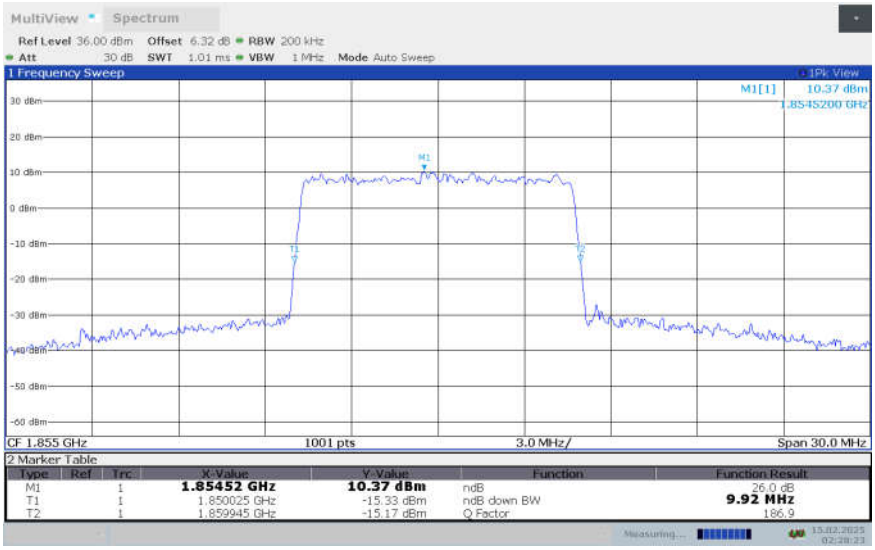
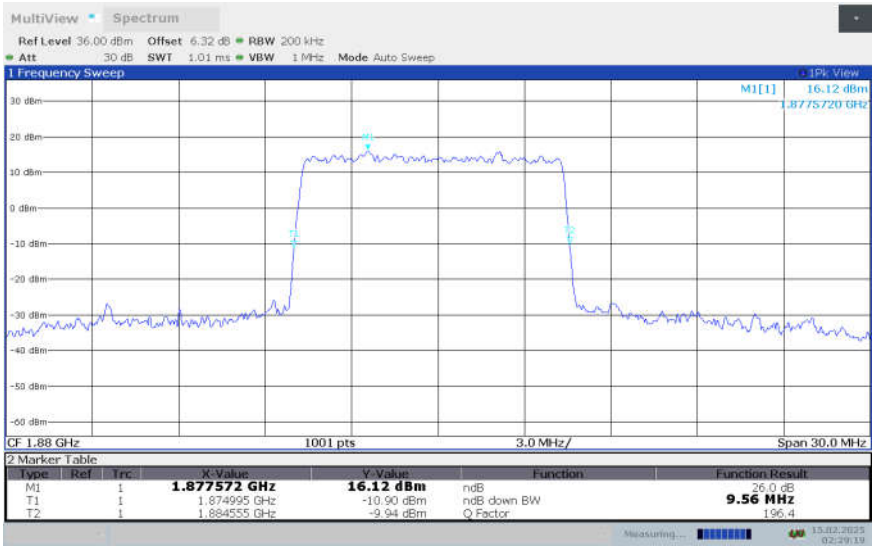


n2,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)

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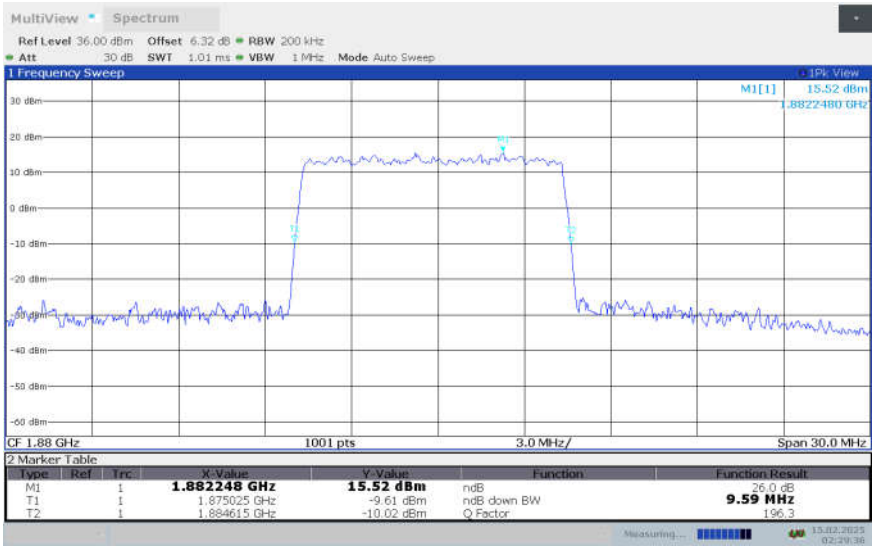
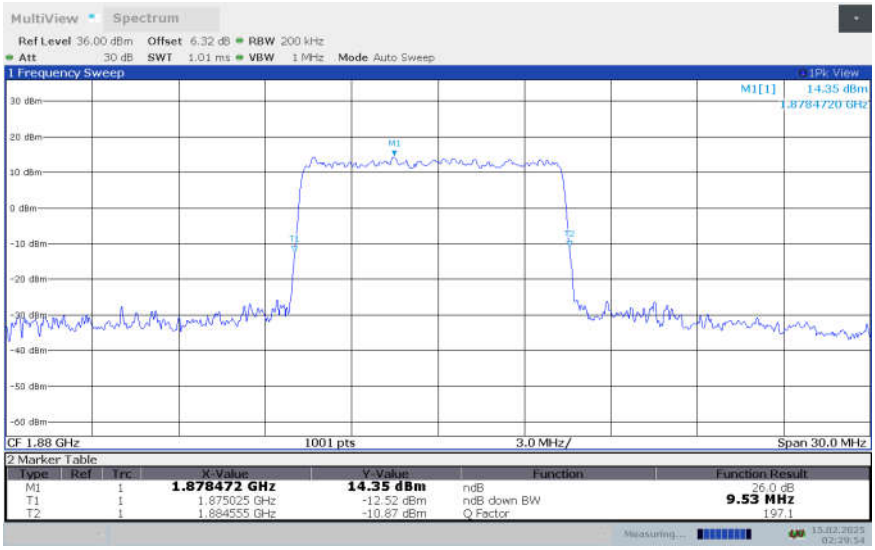


n2,10MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)

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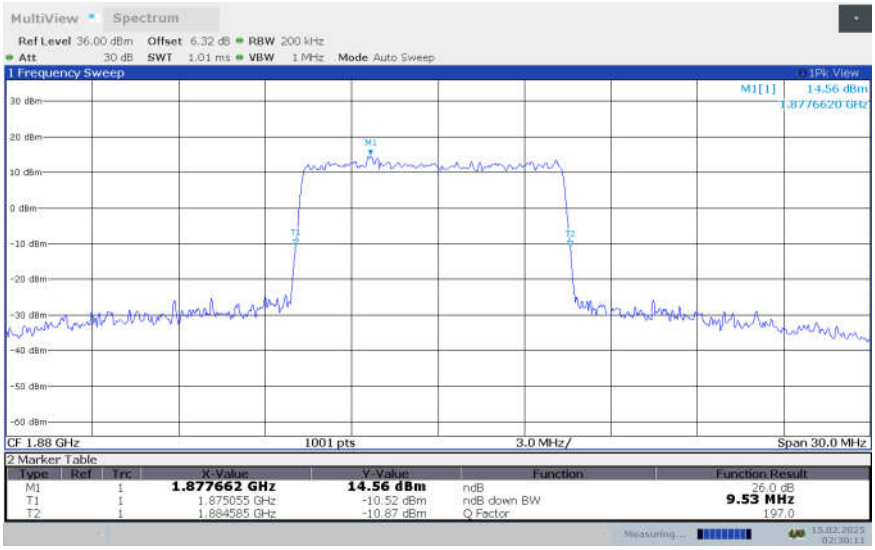
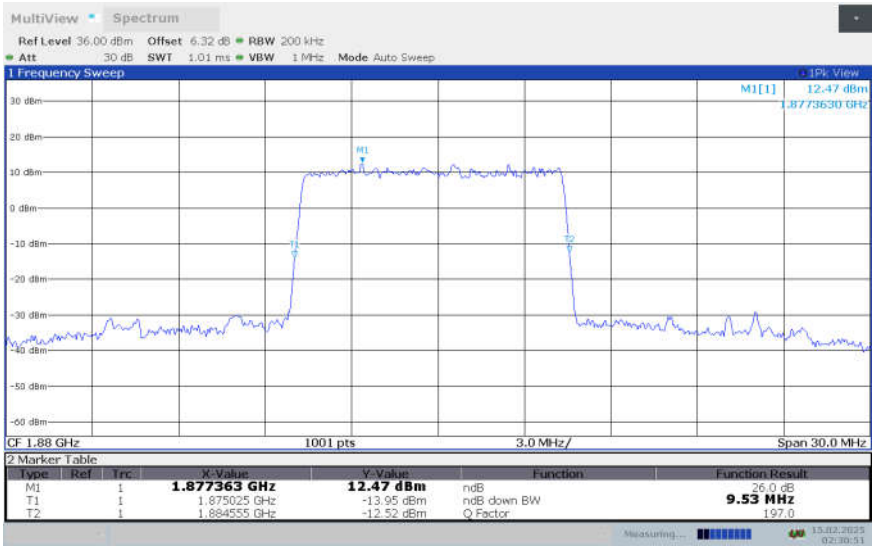


n2,10MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)



n2,10MHz Bandwidth,CP-QPSK (-26dBc OBW)

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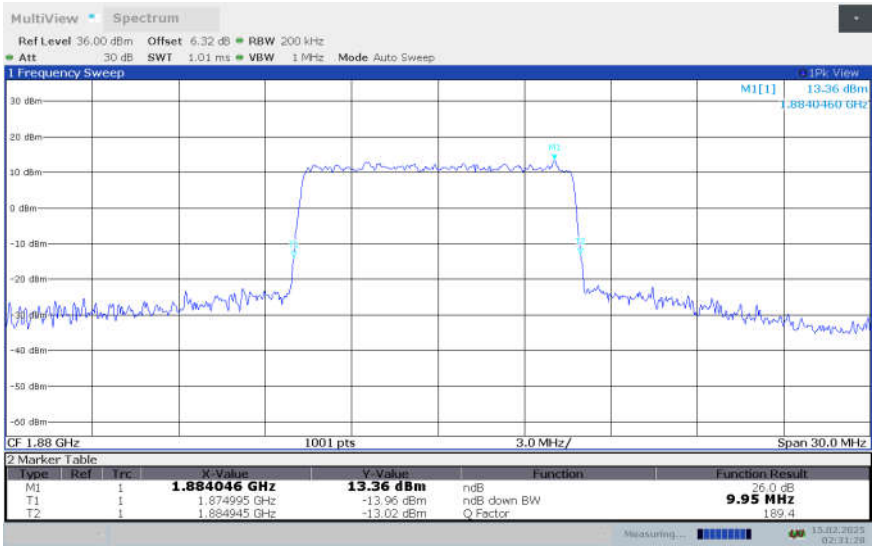
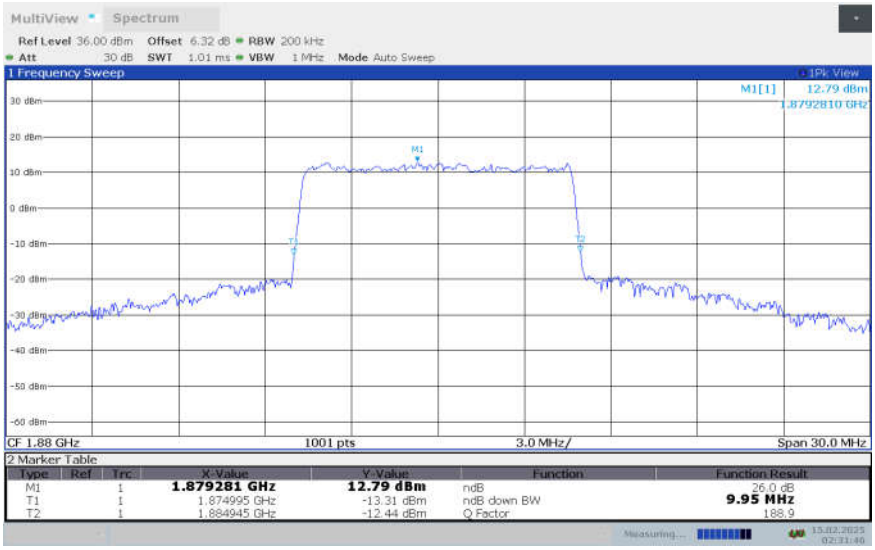


n2,10MHz Bandwidth,CP-16QAM (-26dBc OBW)



n2,10MHz Bandwidth,CP-64QAM (-26dBc OBW)

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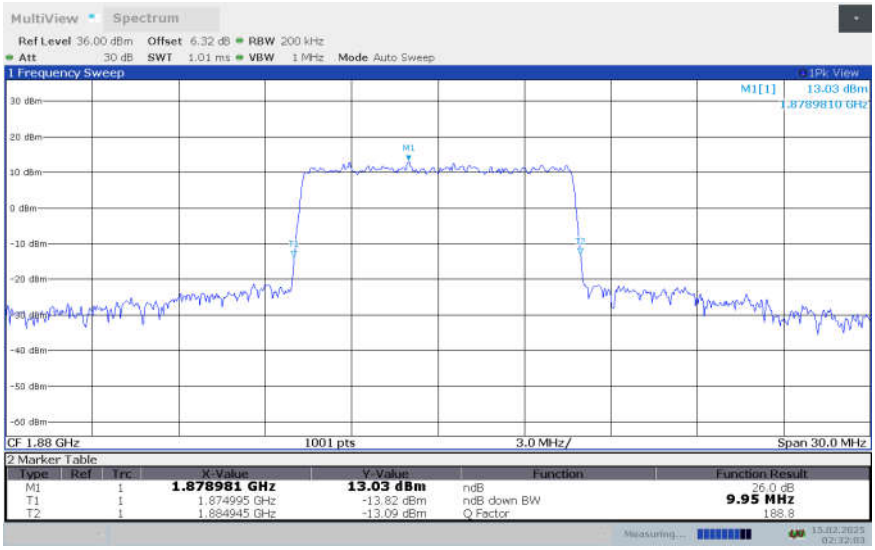
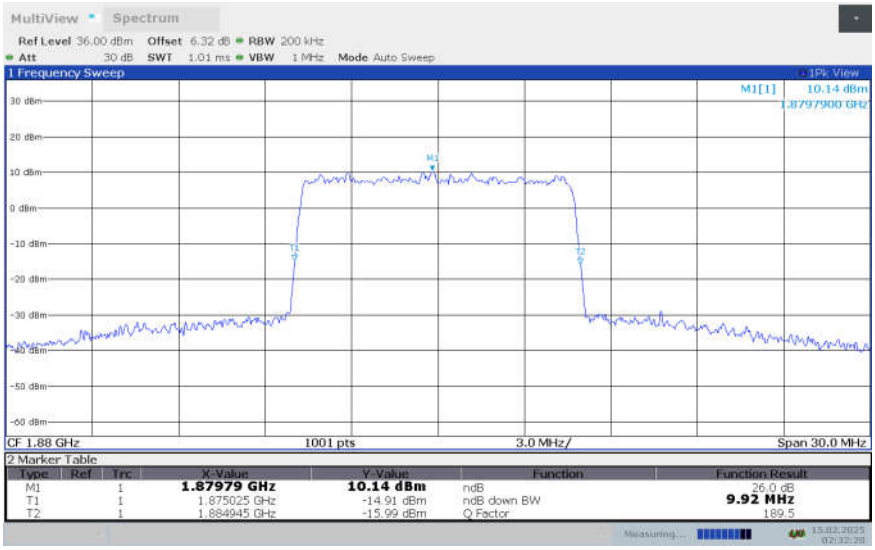


n2,10MHz Bandwidth,CP-256QAM (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)

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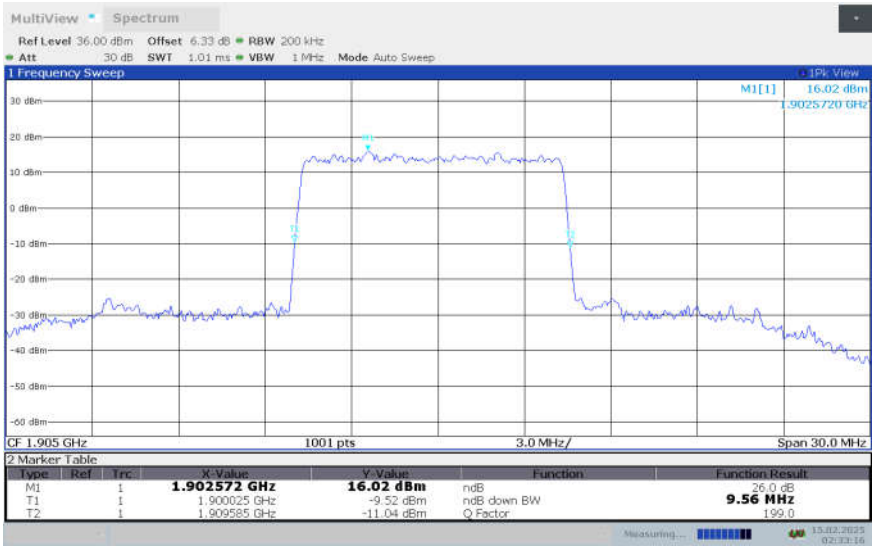
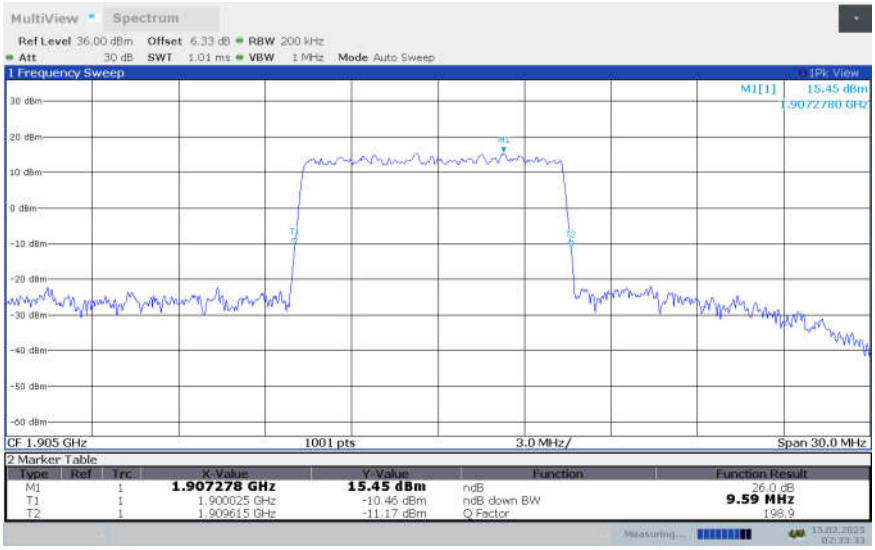


n2,10MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)

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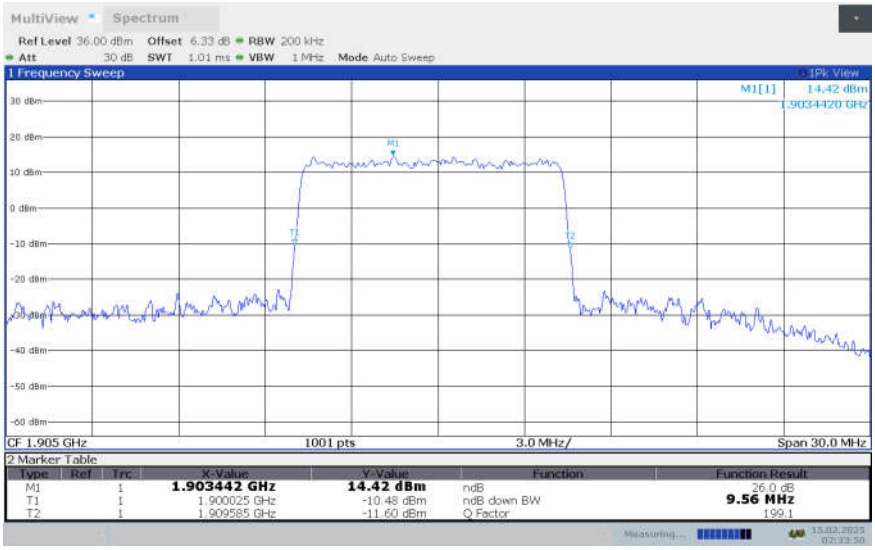
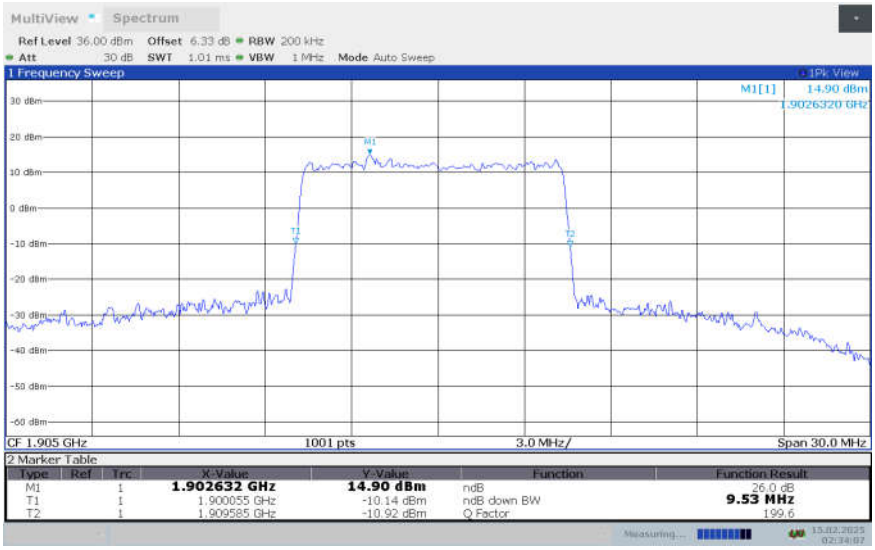


n2,10MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,10MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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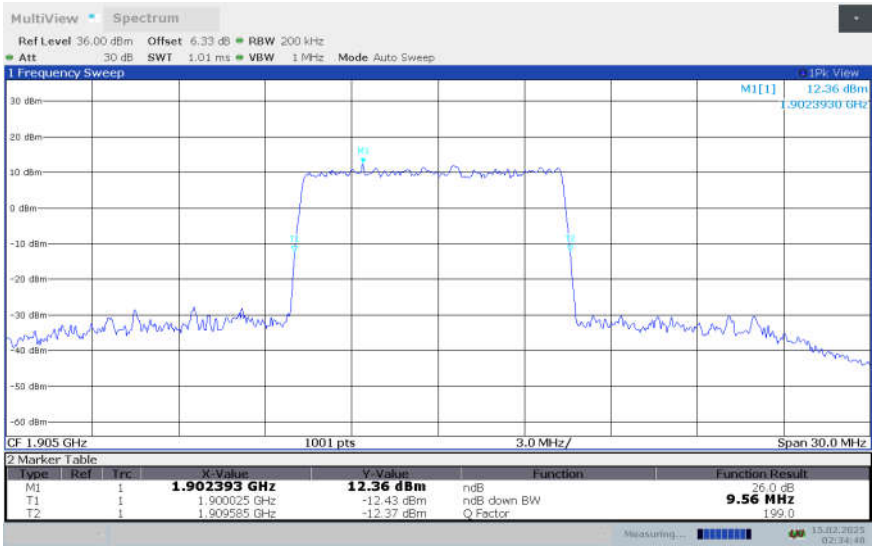
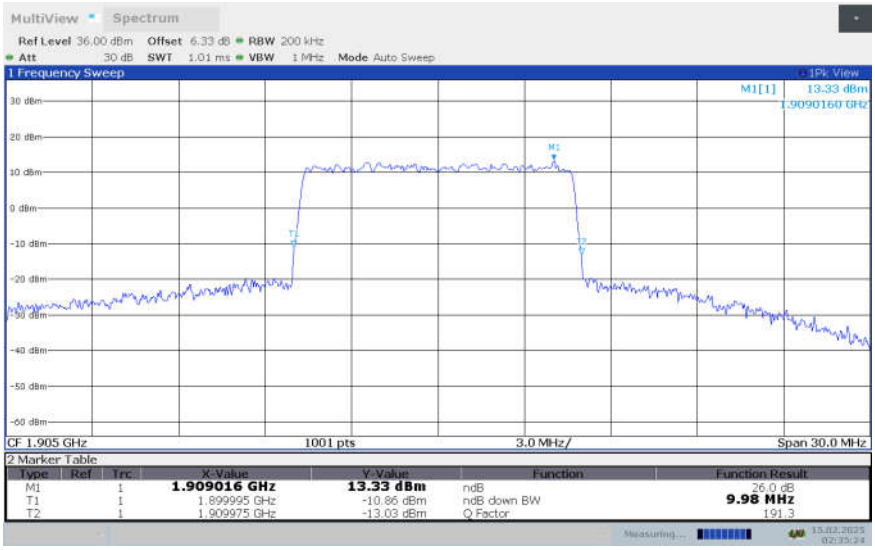


n2,10MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,10MHz Bandwidth,CP-16QAM (-26dBc OBW)

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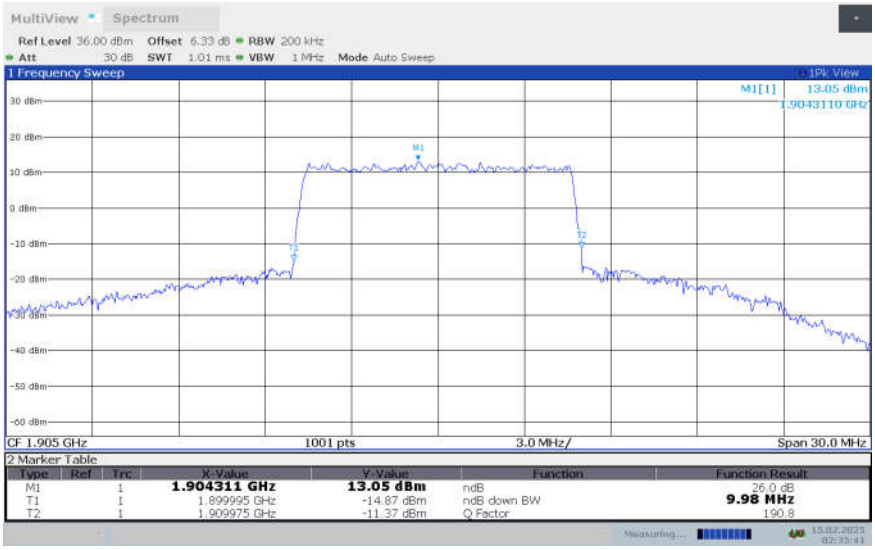
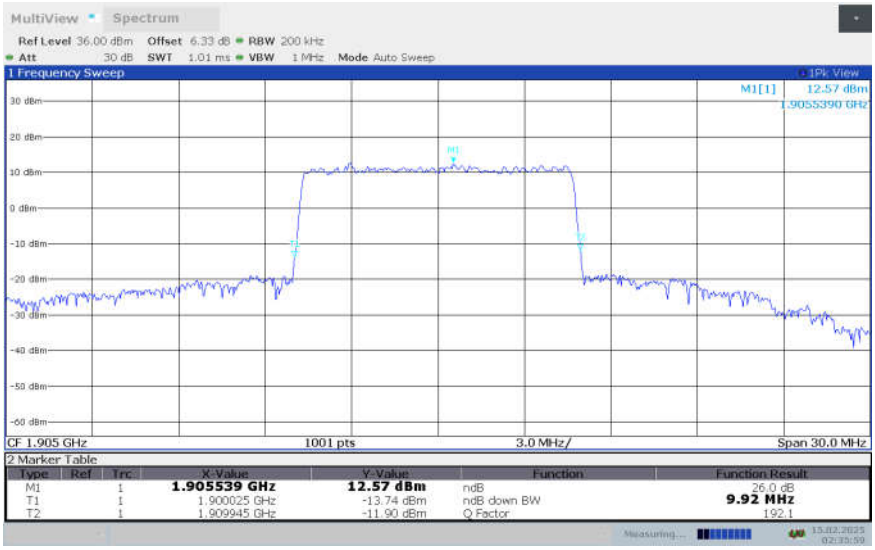


n2,10MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,10MHz Bandwidth,CP-256QAM (-26dBc OBW)

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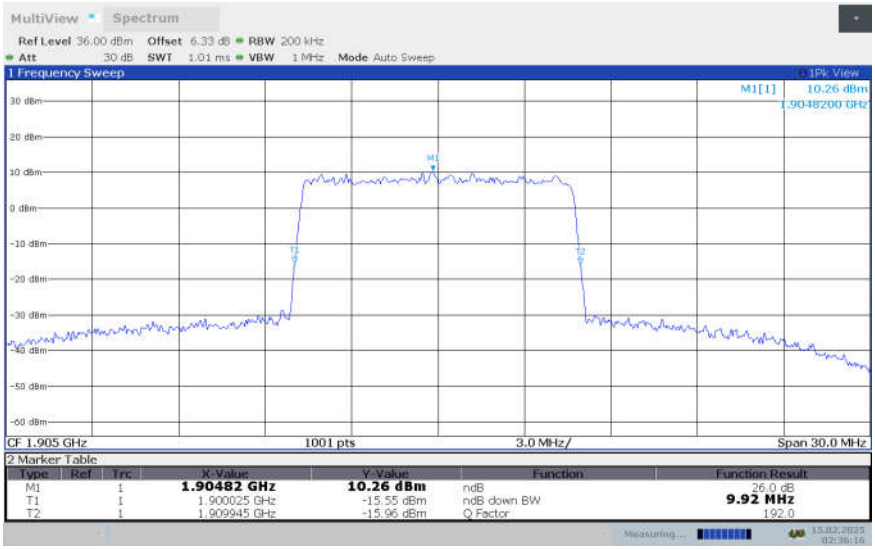
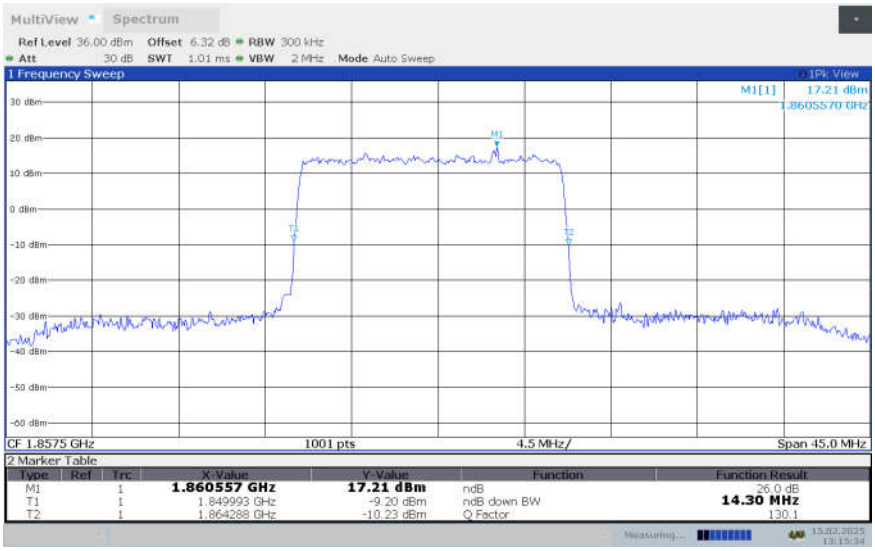

MultiView
Spectrum
Ref Level 36.00 dBm Offset 6.33 dB RBW 200 kHz
Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep
1 Frequency Sweep
1Pk View
M1[1] 10.26 dBm
1.90482200 GHz
30 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 1.905 GHz
1001 pts
3.0 MHz/
Span 30.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 1.90482 GHz 10.26 dBm ndB 26.0 dB
T1 1 1.900025 GHz -15.55 dBm ndB down BW 9.92 MHz
T2 1 1.909945 GHz -15.96 dBm Q Factor 192.0

n2

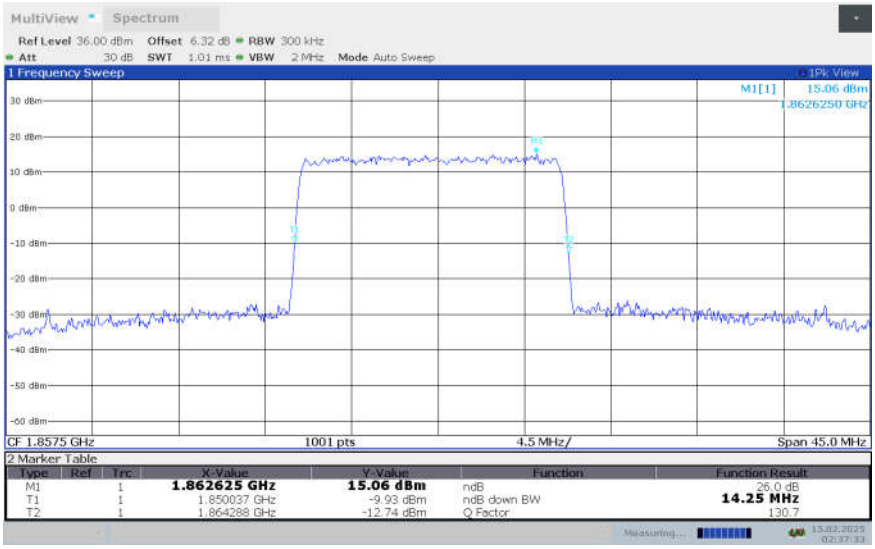
n2,15MHz(-26dBc OBW)

Frequency (MHz)	Emission Bandwidth (-26dBc OBW) (MHz)								
	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1857.5	14.296	14.251	14.296	14.296	14.251	14.970	14.925	14.970	14.970
1880	14.206	14.251	14.206	14.251	14.251	14.925	14.970	15.015	14.880
1902.5	14.251	14.251	14.251	14.251	14.251	14.970	14.970	14.970	14.925

n2,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



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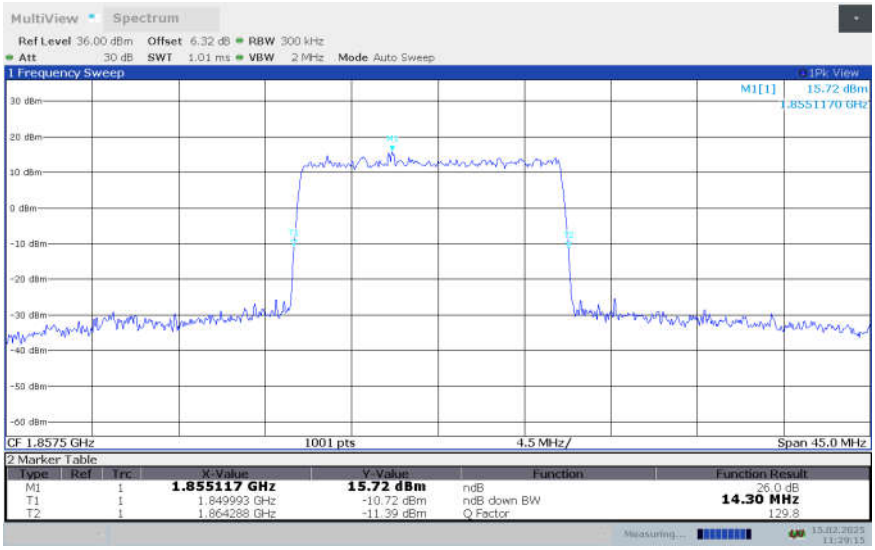
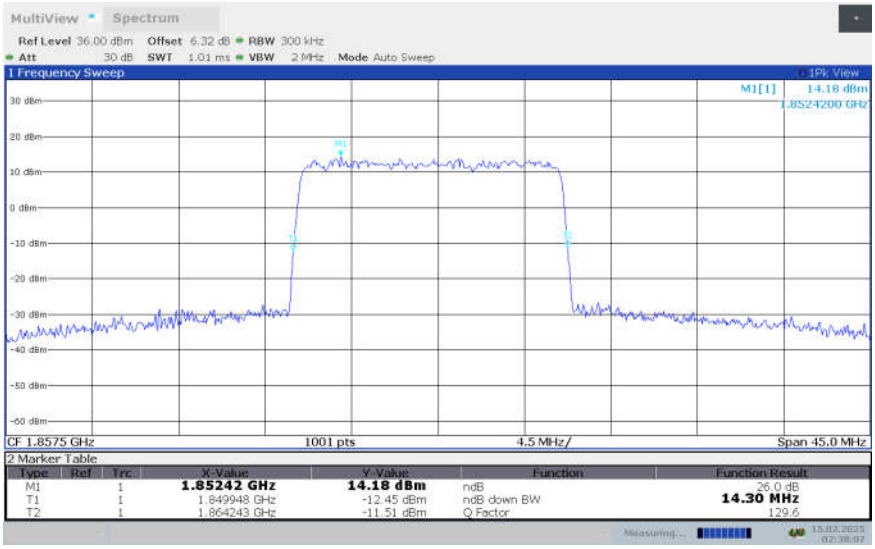
n2,15MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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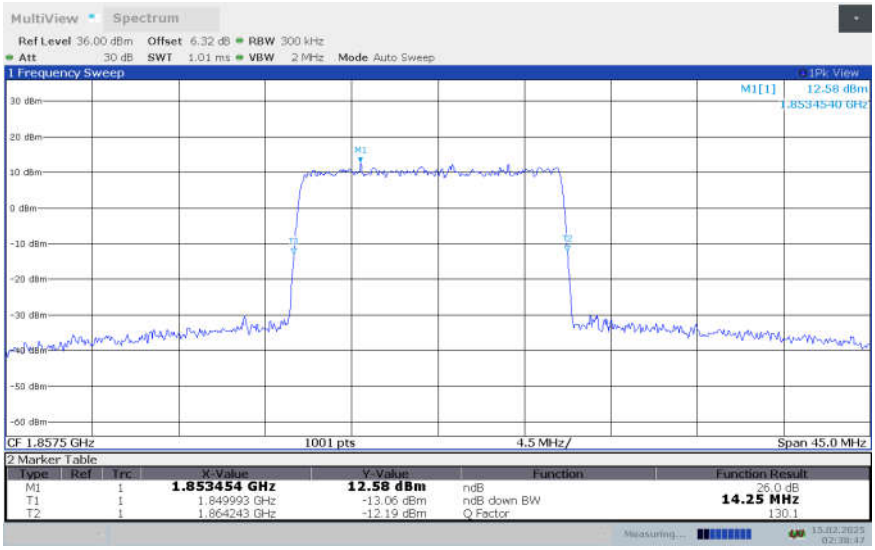
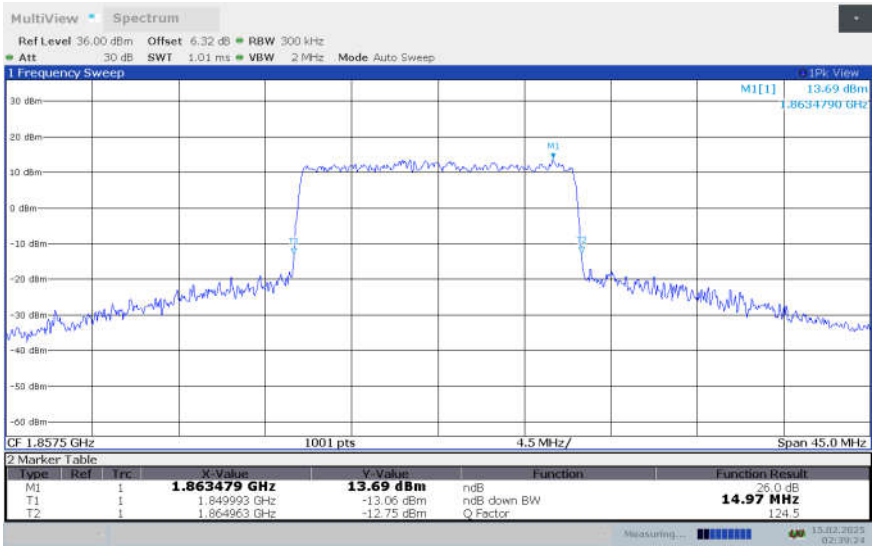


n2,15MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,15MHz Bandwidth,CP-16QAM (-26dBc OBW)

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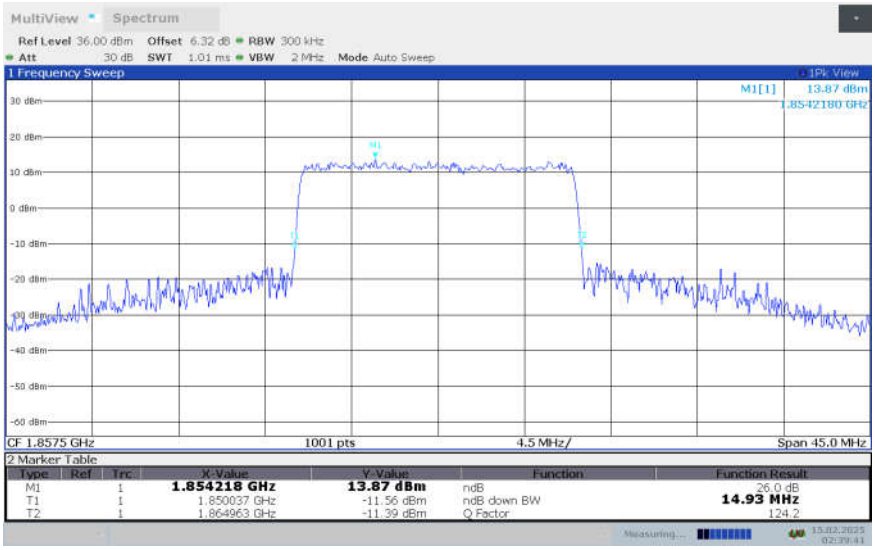
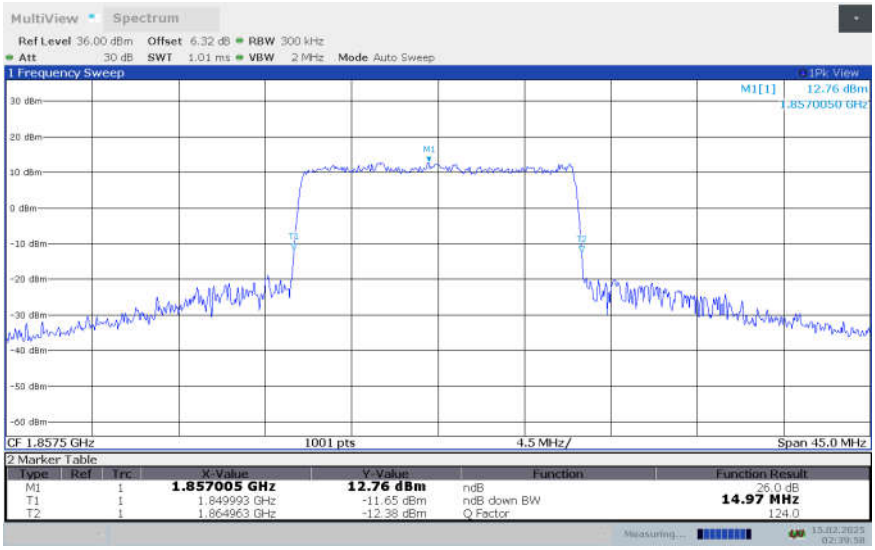


n2,15MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,15MHz Bandwidth,CP-256QAM (-26dBc OBW)

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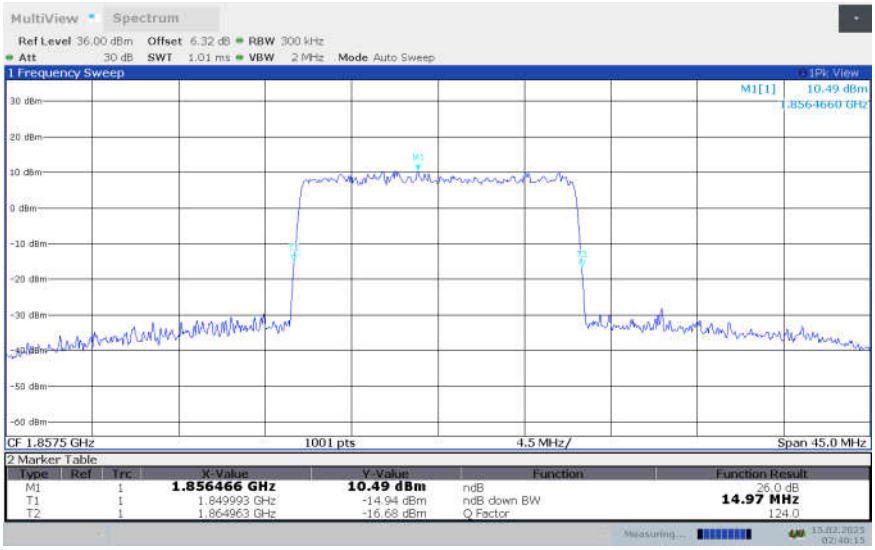
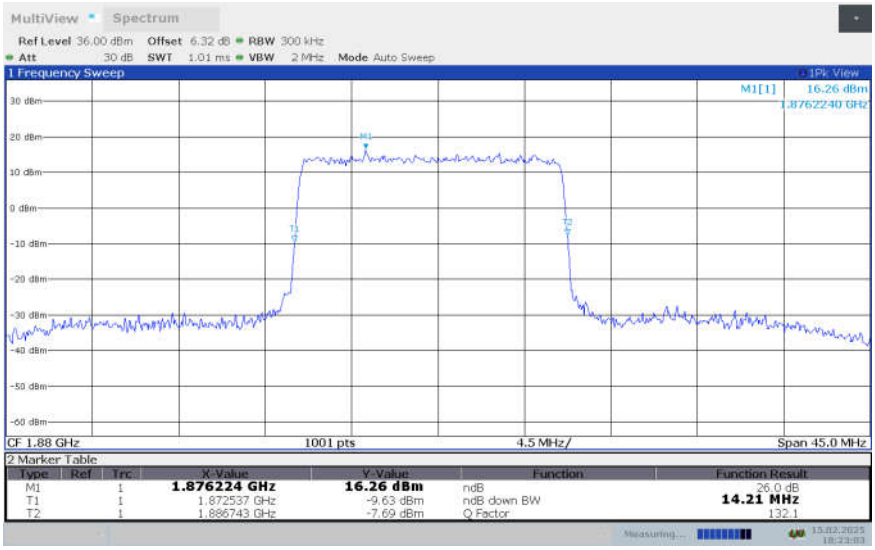


n2,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)

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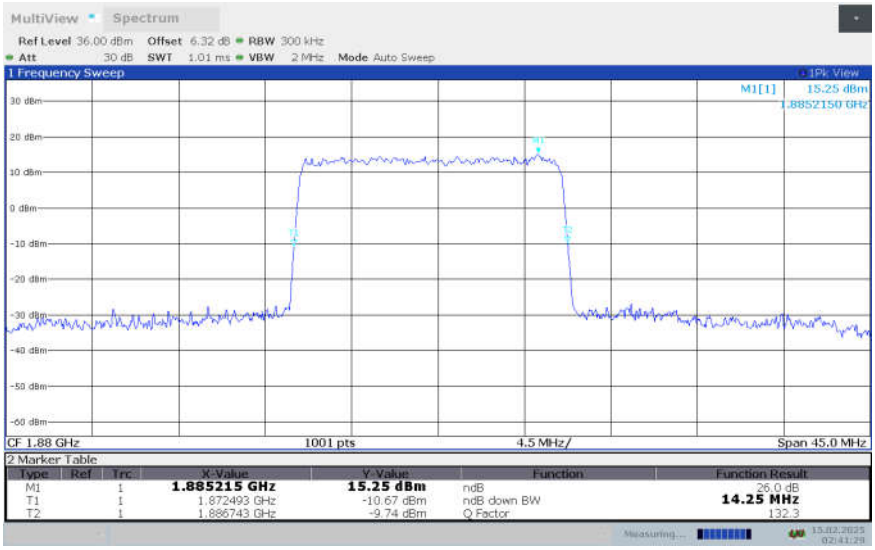
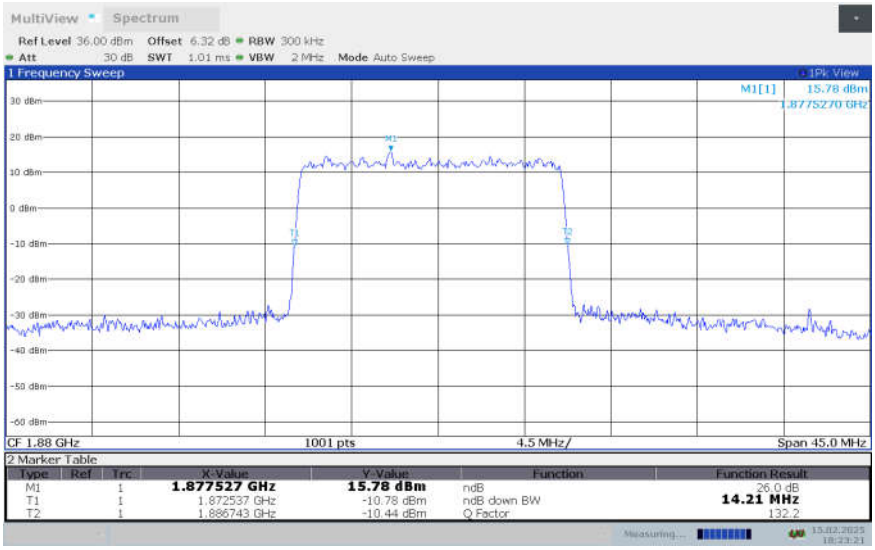


n2,15MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)

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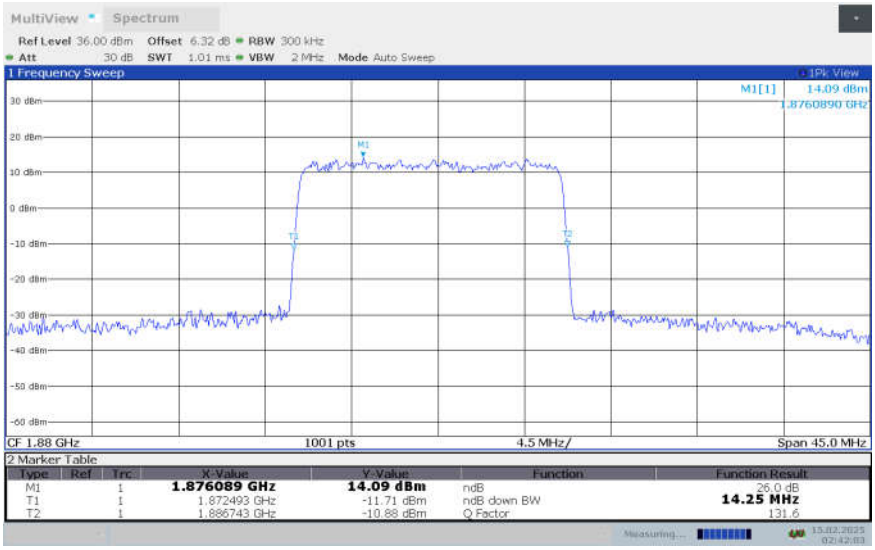
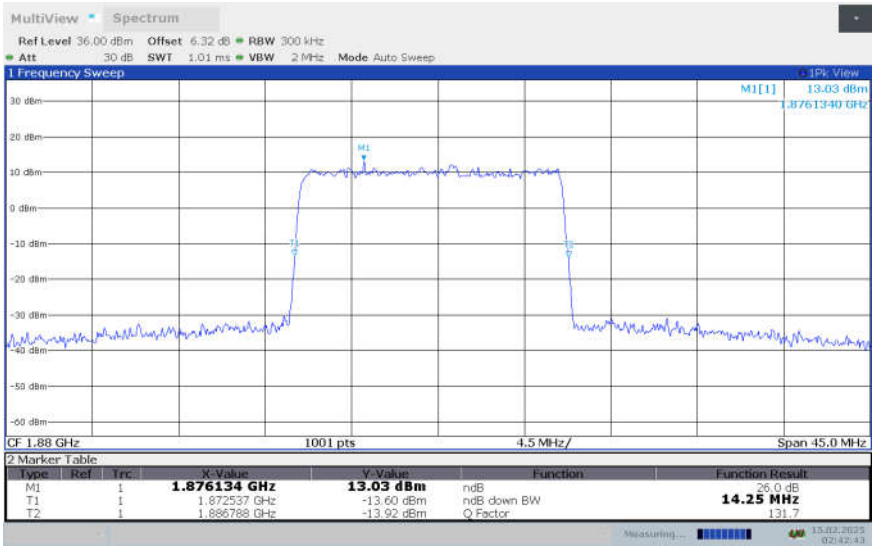


n2,15MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)



n2,15MHz Bandwidth,CP-QPSK (-26dBc OBW)

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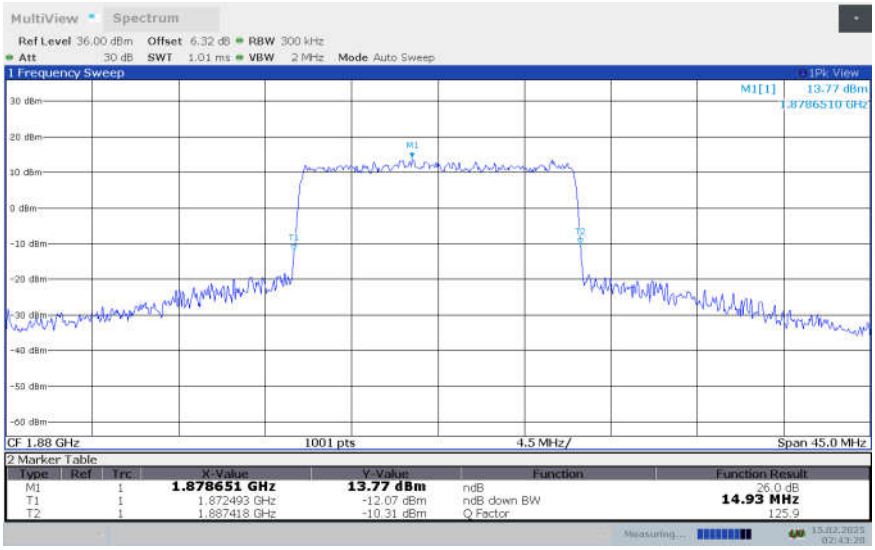
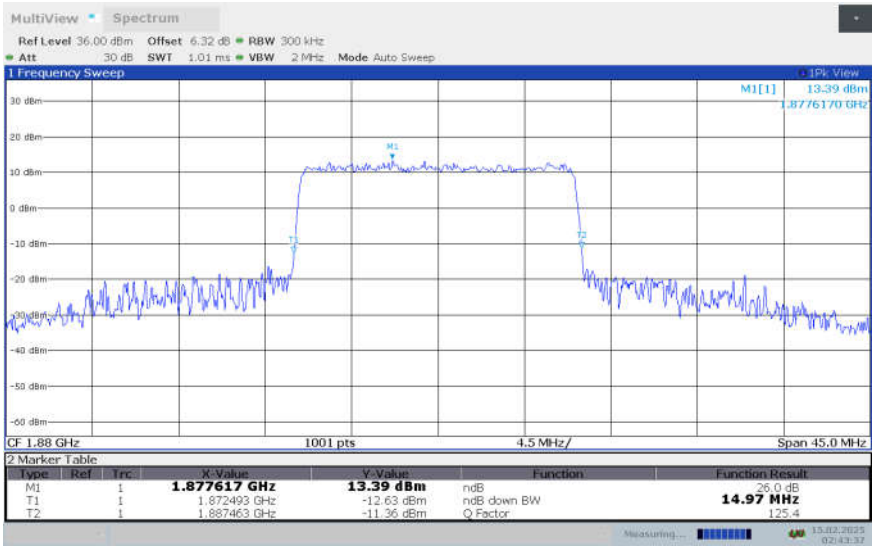


n2,15MHz Bandwidth,CP-16QAM (-26dBc OBW)



n2,15MHz Bandwidth,CP-64QAM (-26dBc OBW)

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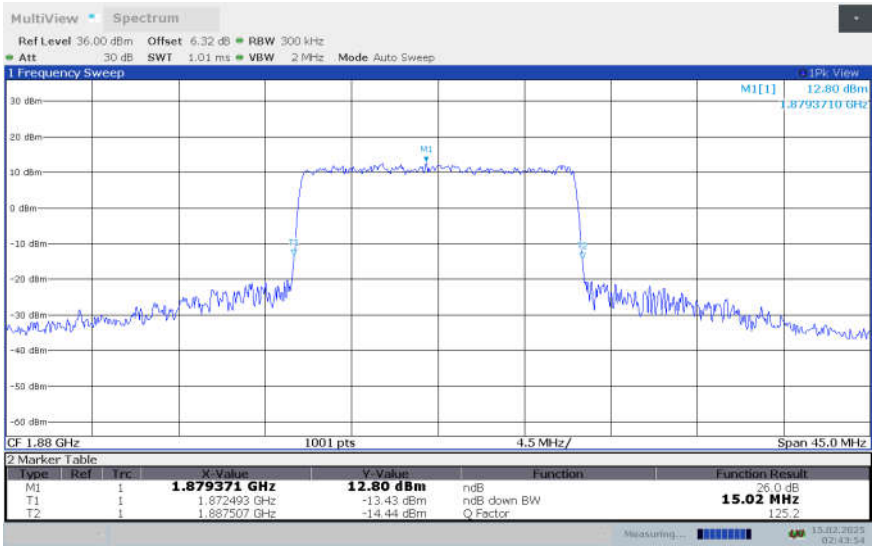
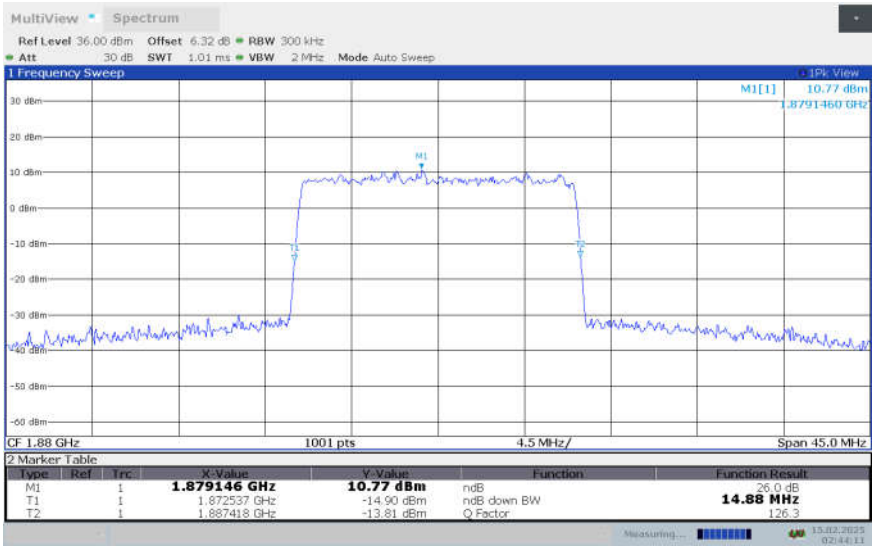


n2,15MHz Bandwidth,CP-256QAM (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)

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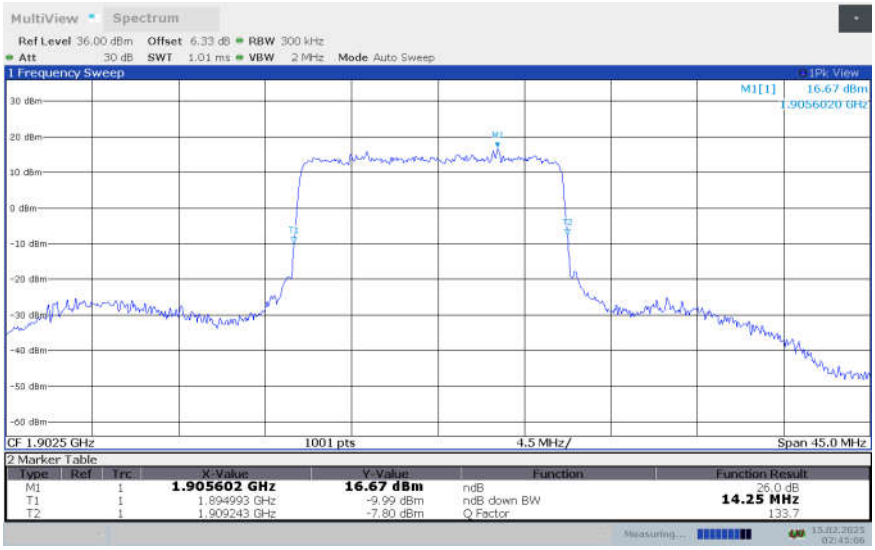
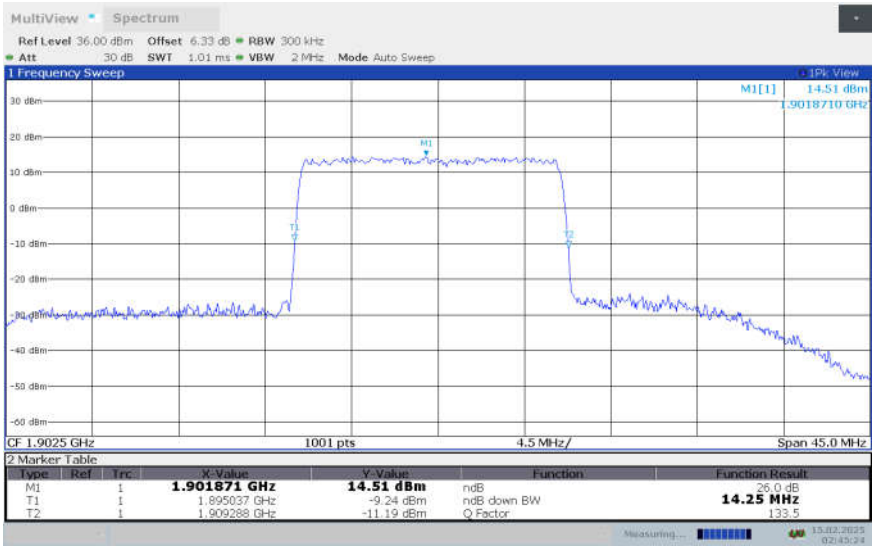


n2,15MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)

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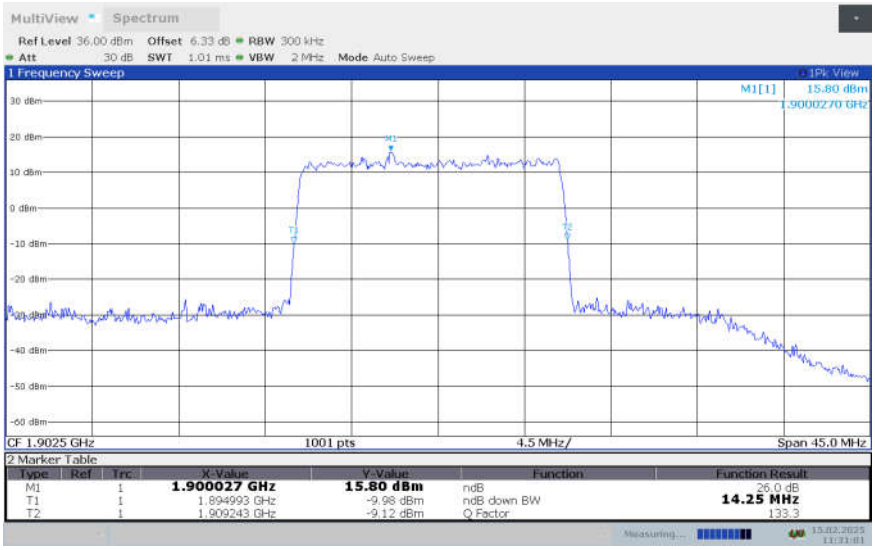
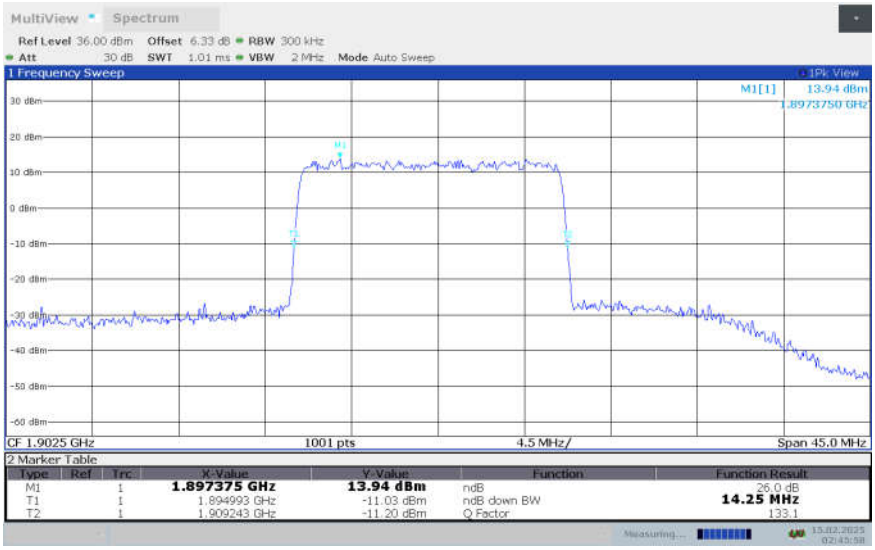


n2,15MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,15MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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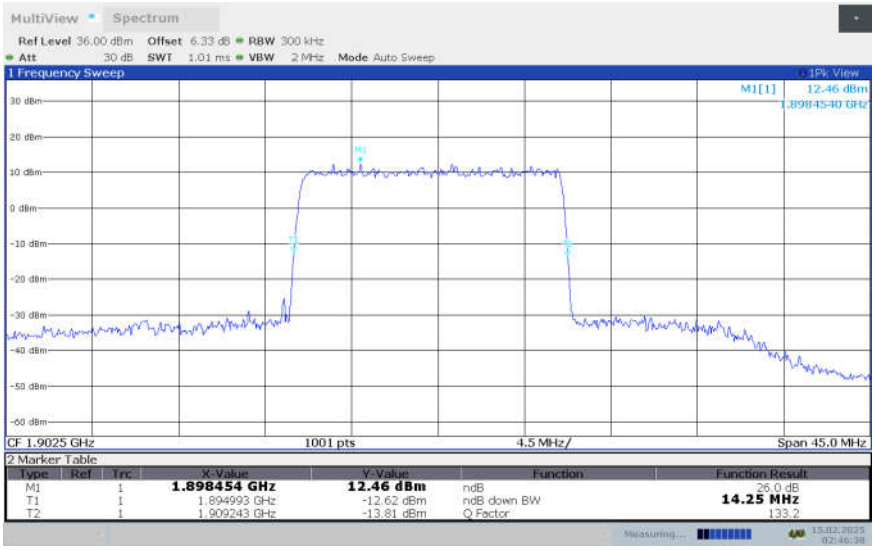
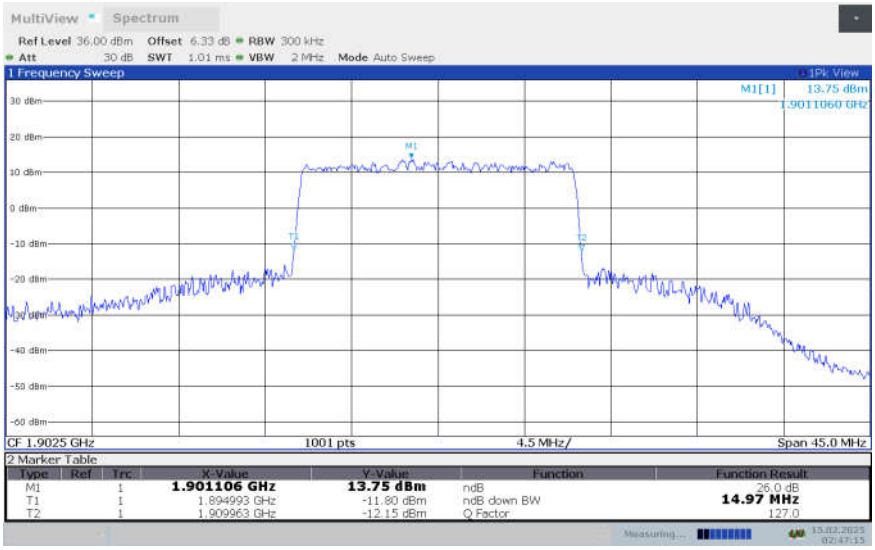


n2,15MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,15MHz Bandwidth,CP-16QAM (-26dBc OBW)

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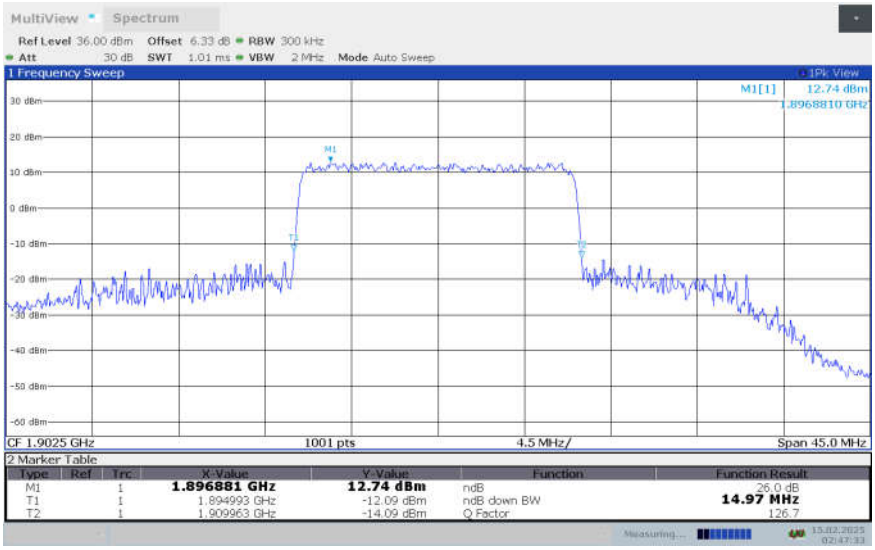
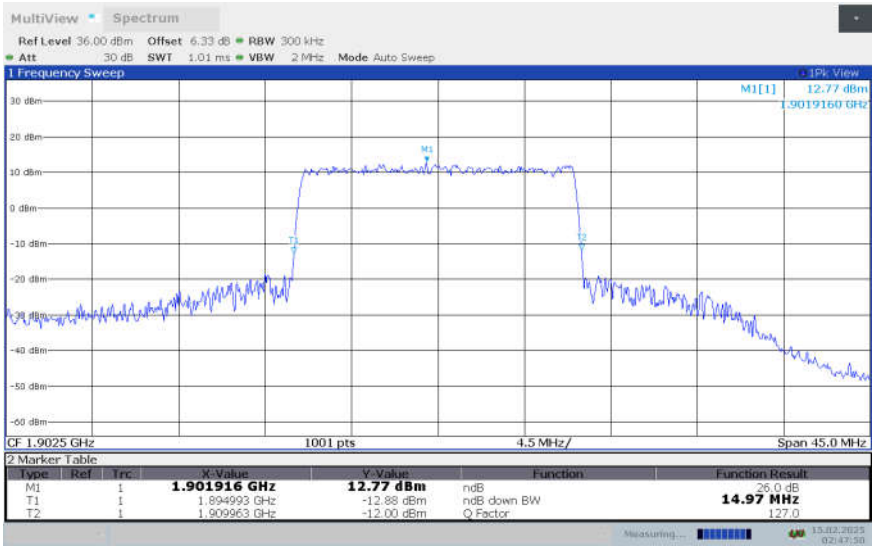


n2,15MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,15MHz Bandwidth,CP-256QAM (-26dBc OBW)

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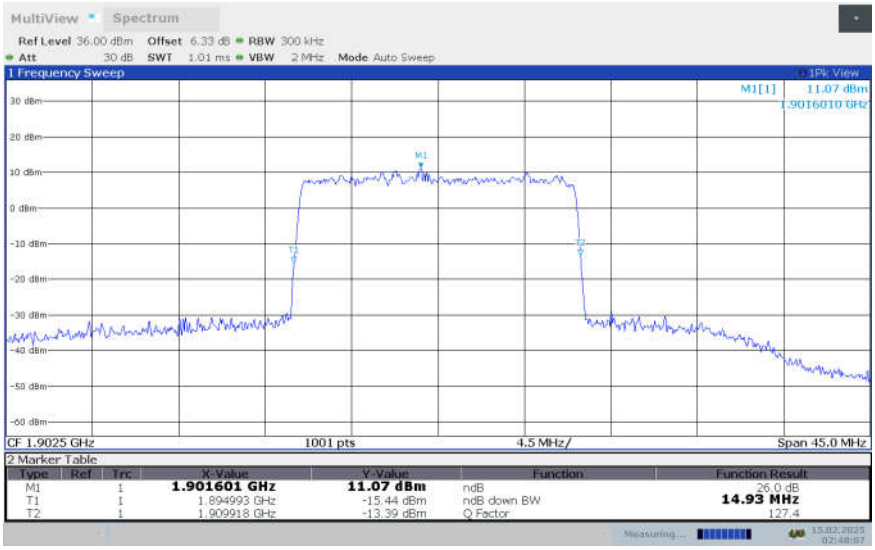

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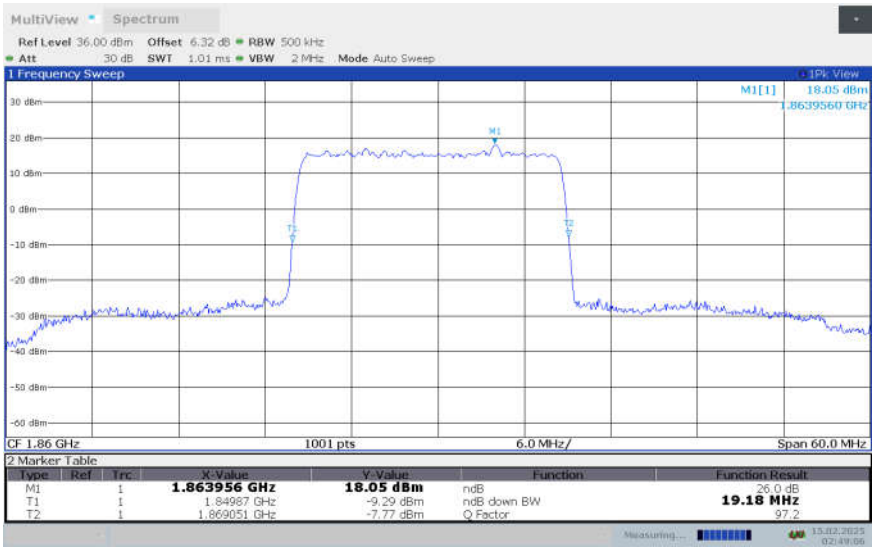
n2

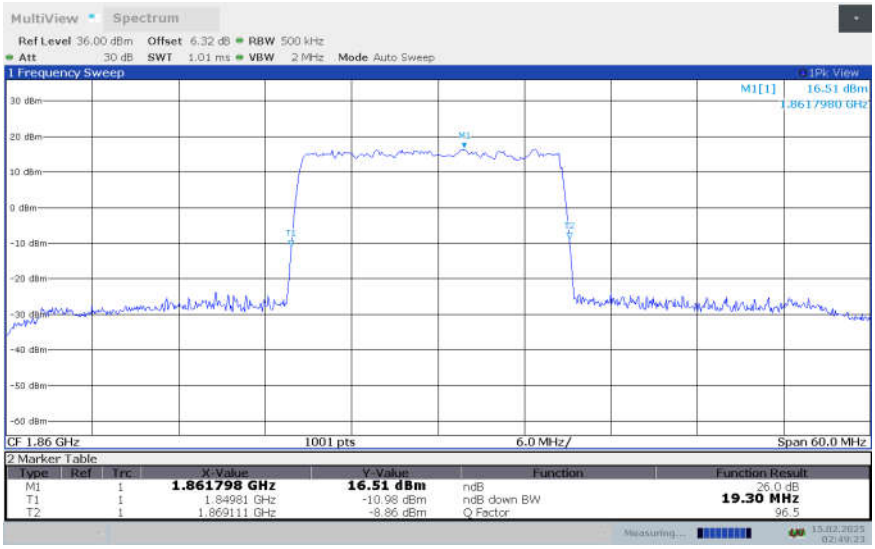
n2,20MHz(-26dBc OBW)

Frequency (MHz)	Emission Bandwidth (-26dBc OBW) (MHz)								
	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1860	19.181	19.301	19.181	19.181	19.181	20.260	20.260	20.380	20.260
1880	19.181	19.241	19.181	19.181	19.181	20.320	20.260	20.380	20.260
1900	19.181	19.241	19.181	19.181	19.181	20.320	20.260	20.380	20.260

n2,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,20MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)



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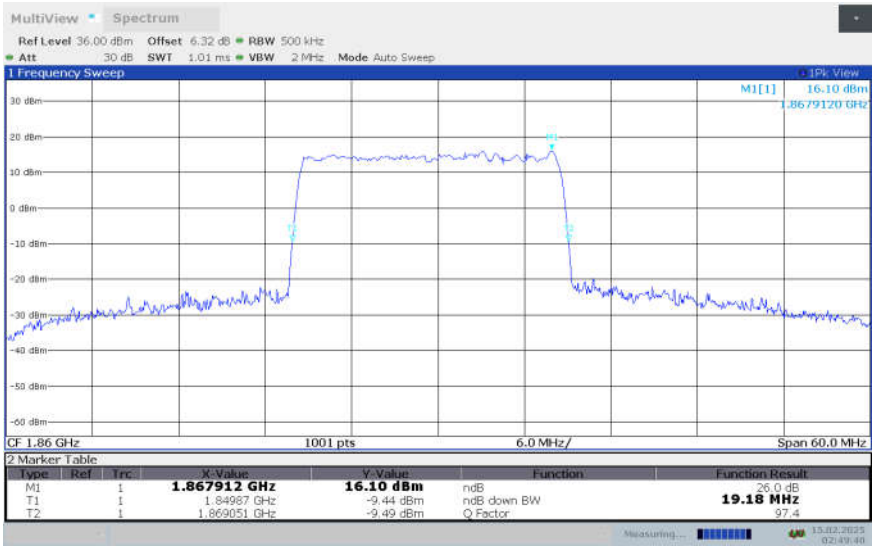
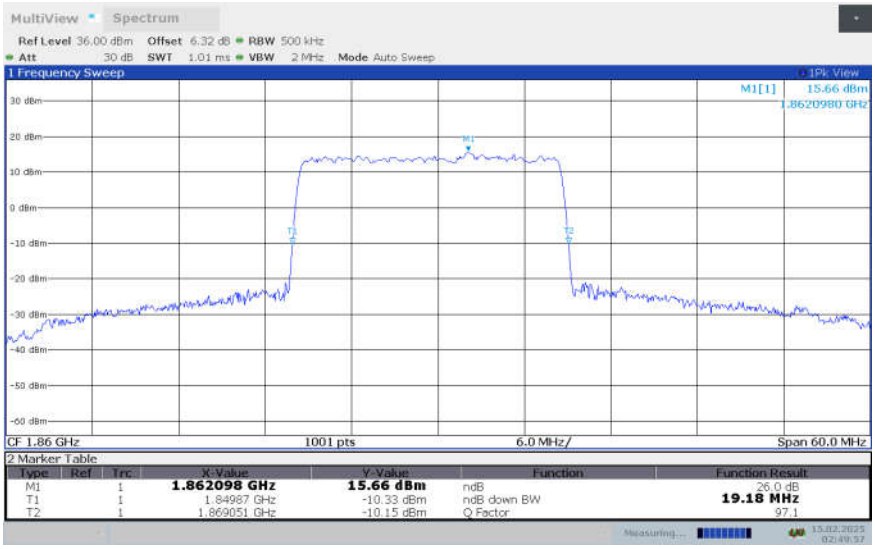
n2,20MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,20MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)



n2,20MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)

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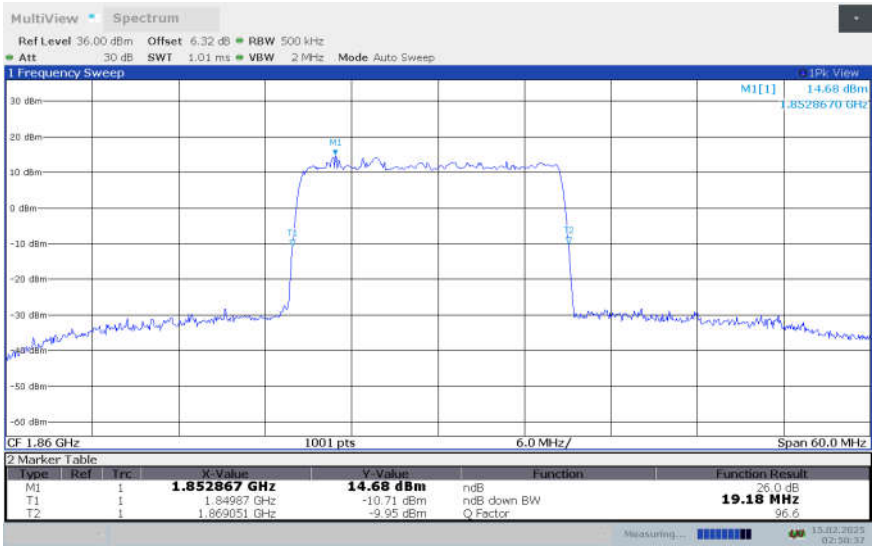
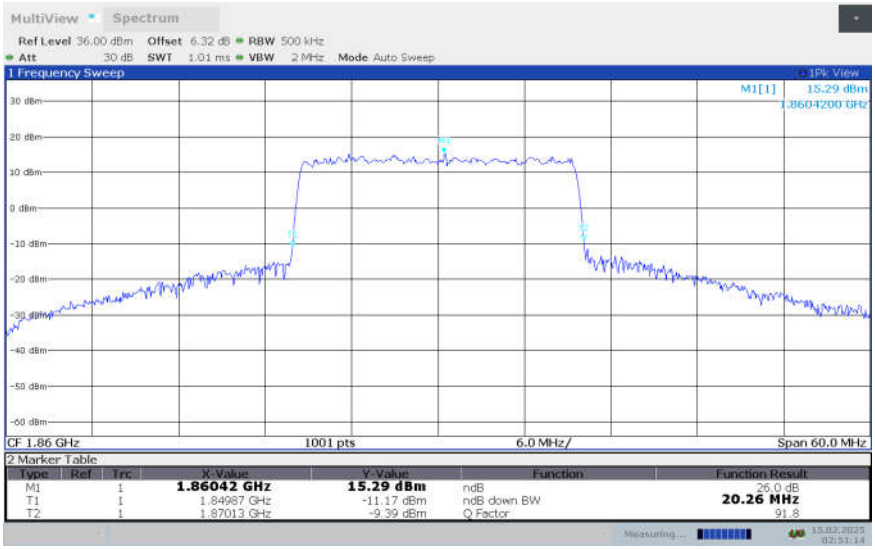


n2,20MHz Bandwidth,CP-QPSK (-26dBc OBW)



n2,20MHz Bandwidth,CP-16QAM (-26dBc OBW)

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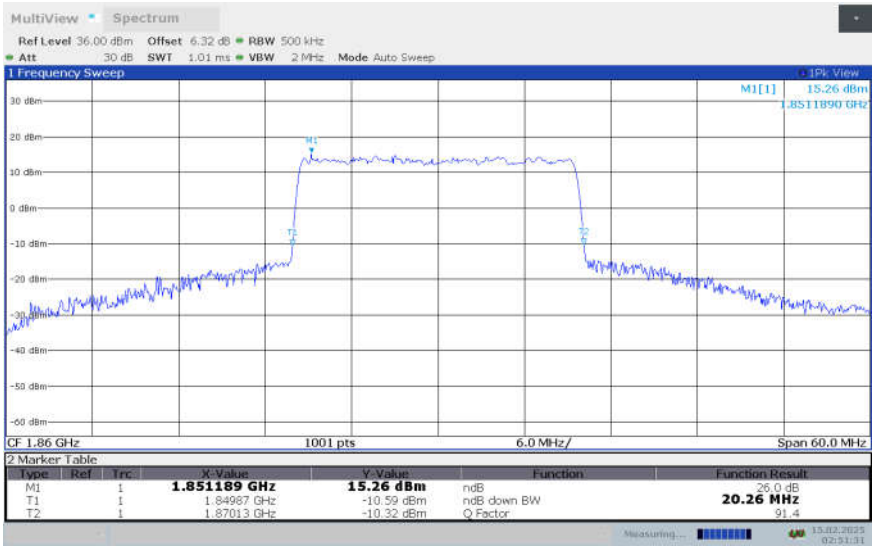
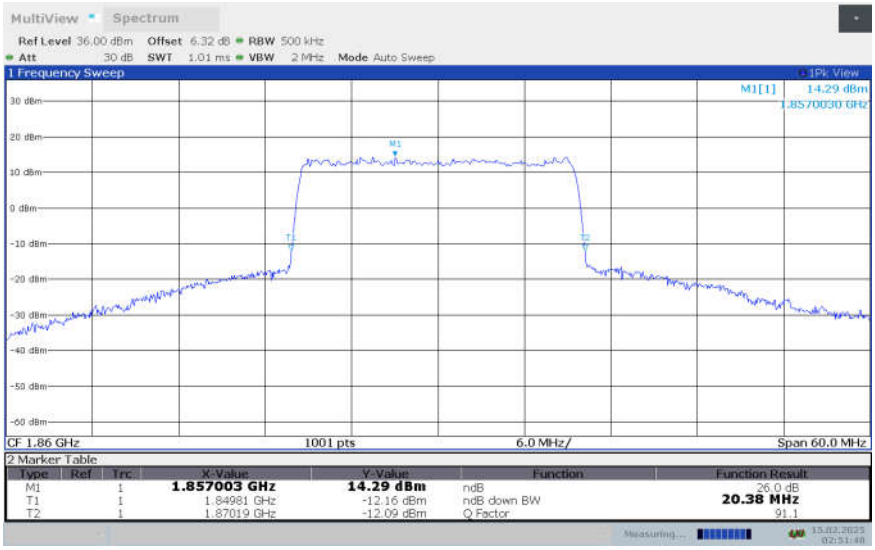


n2,20MHz Bandwidth,CP-64QAM (-26dBc OBW)



n2,20MHz Bandwidth,CP-256QAM (-26dBc OBW)

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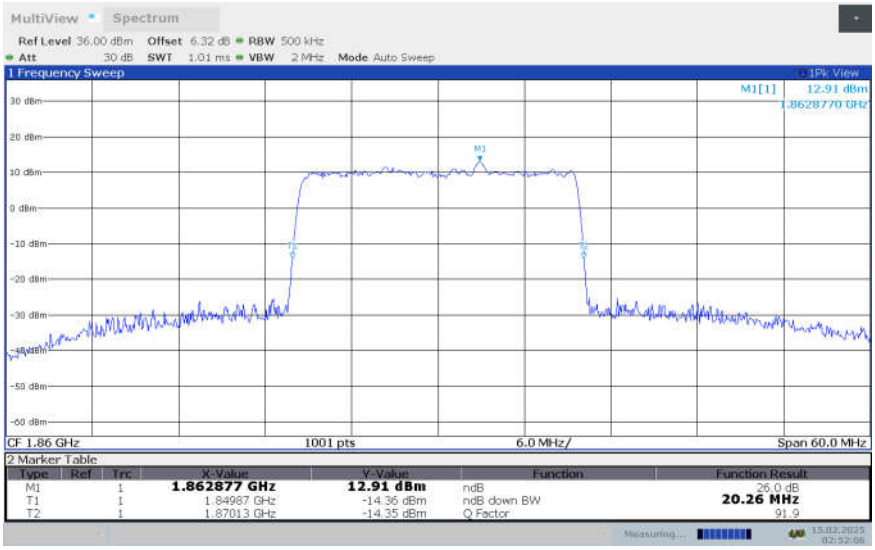
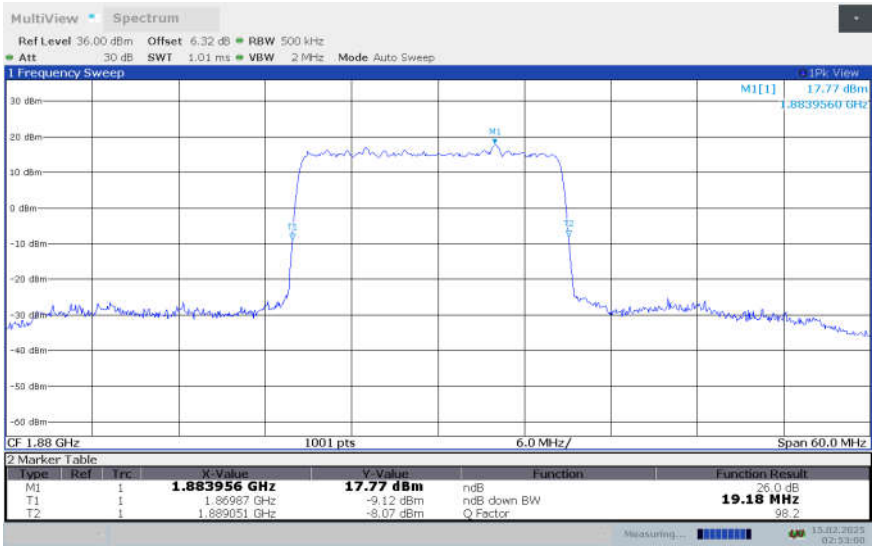


n2,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc OBW)



n2,20MHz Bandwidth,DFT-s-QPSK (-26dBc OBW)

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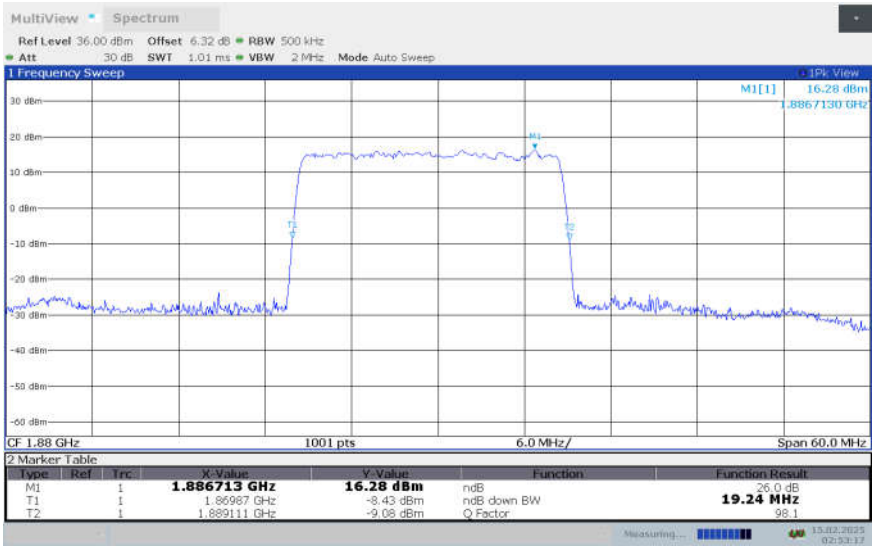
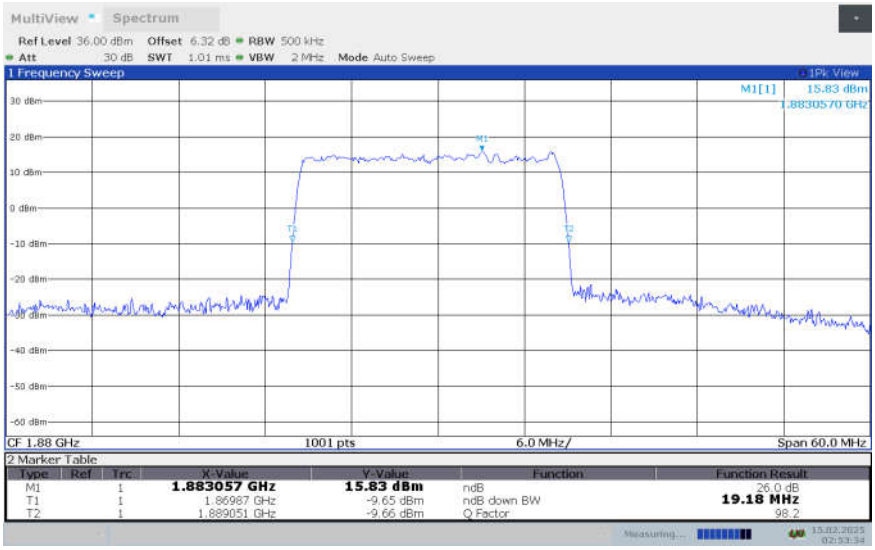


n2,20MHz Bandwidth,DFT-s-16QAM (-26dBc OBW)



n2,20MHz Bandwidth,DFT-s-64QAM (-26dBc OBW)

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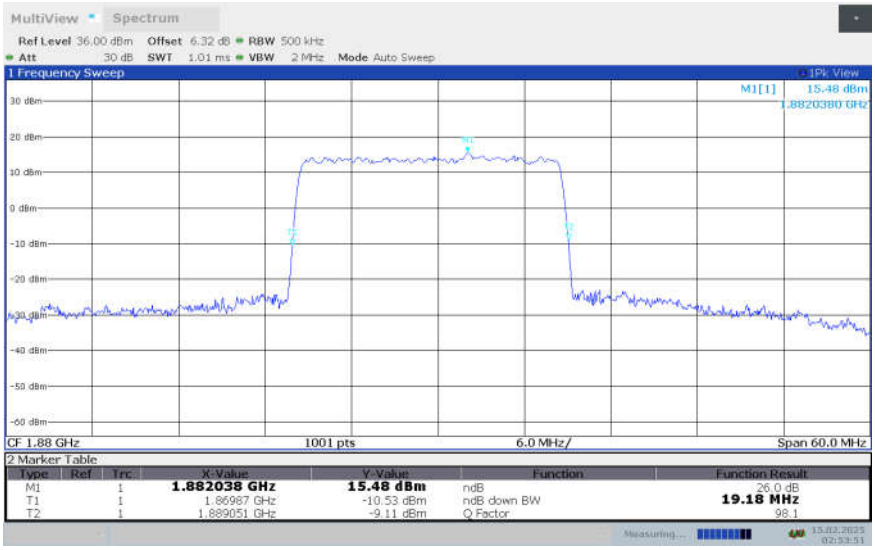
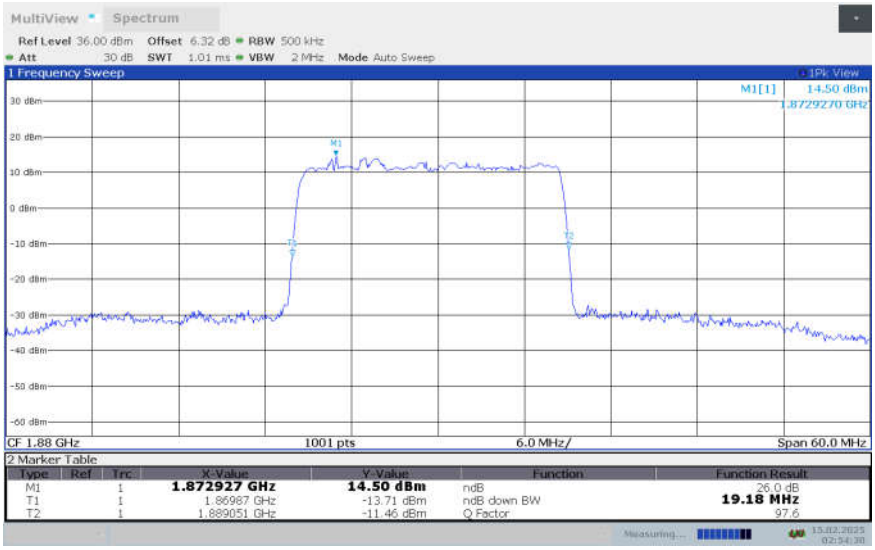


n2,20MHz Bandwidth,DFT-s-256QAM (-26dBc OBW)



n2,20MHz Bandwidth,CP-QPSK (-26dBc OBW)

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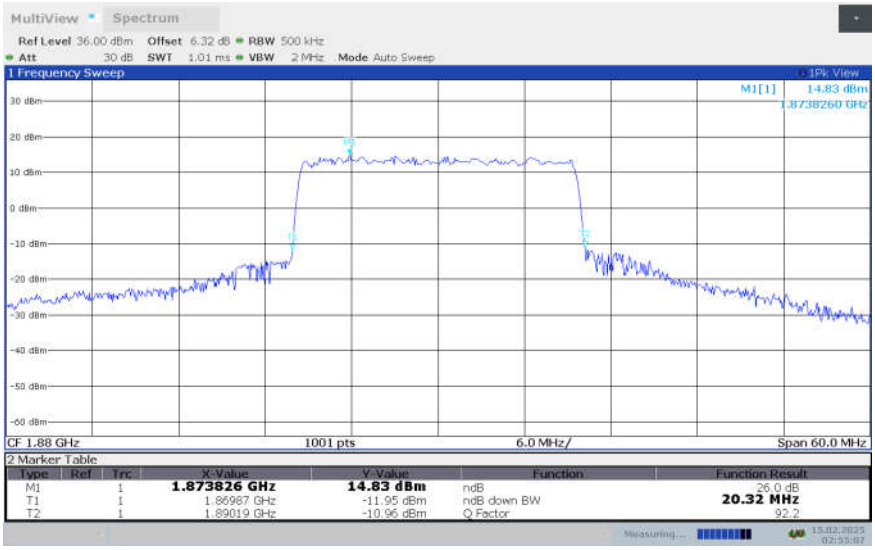
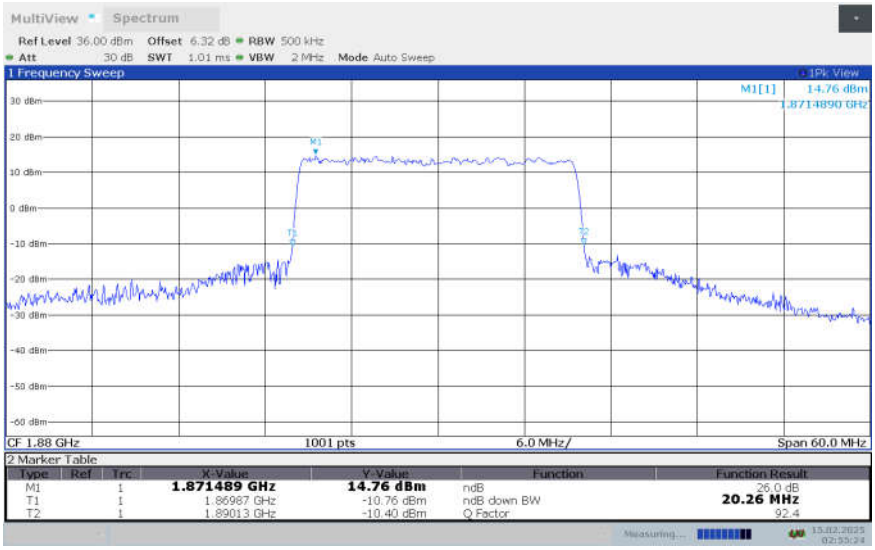


n2,20MHz Bandwidth,CP-16QAM (-26dBc OBW)



n2,20MHz Bandwidth,CP-64QAM (-26dBc OBW)

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