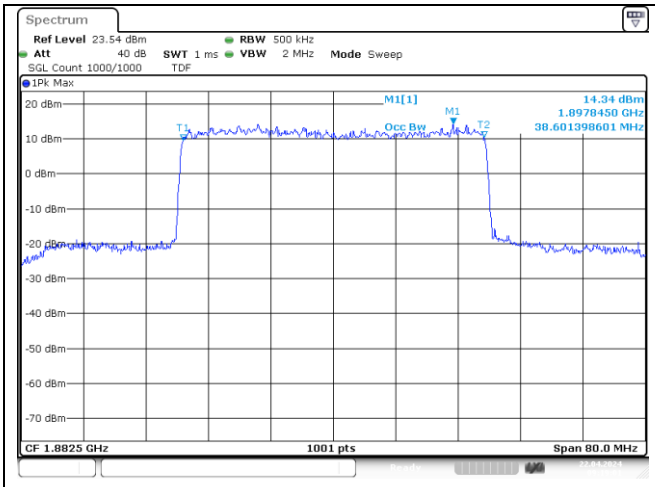
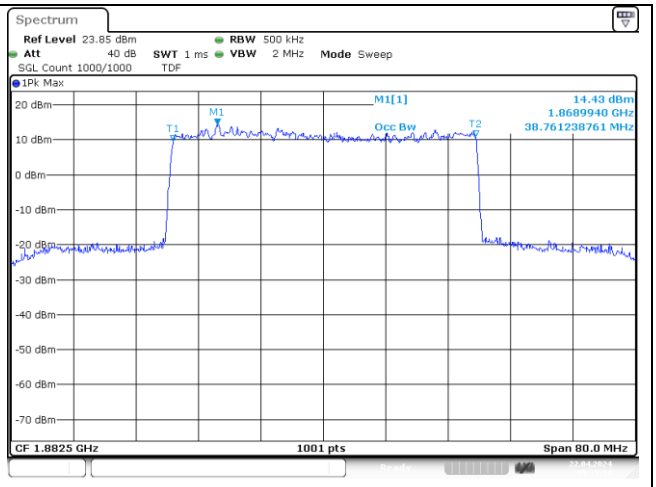
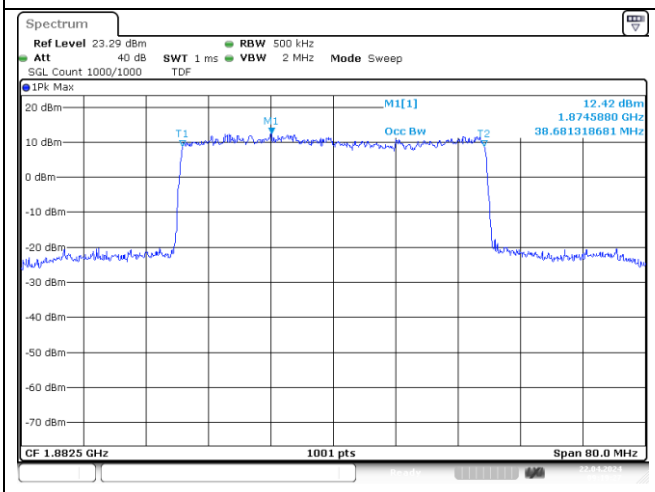
NR band 25/2



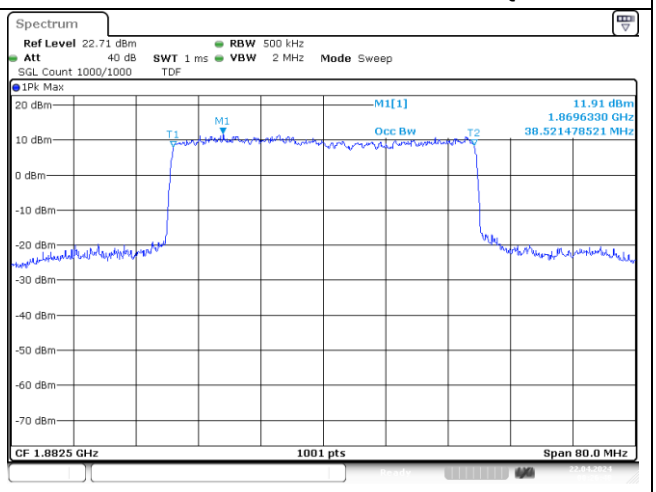
40 ㎒ Middle Channel - DFT-S-OFDM BPSK



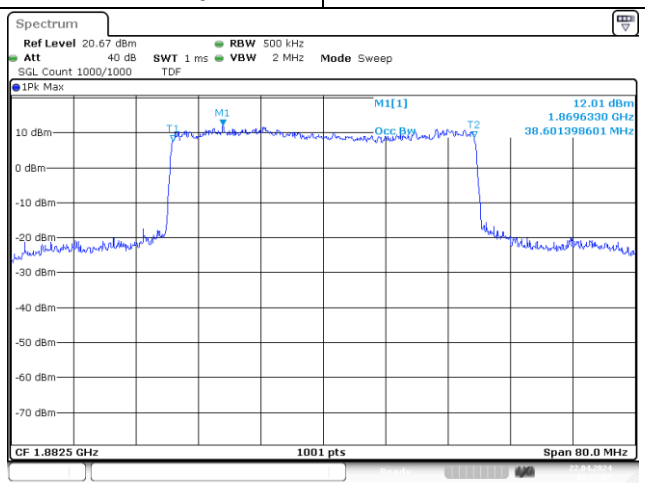
40 ㎒ Middle Channel - DFT-S-OFDM QPSK



40 ㎒ Middle Channel - DFT-S-OFDM 16QAM

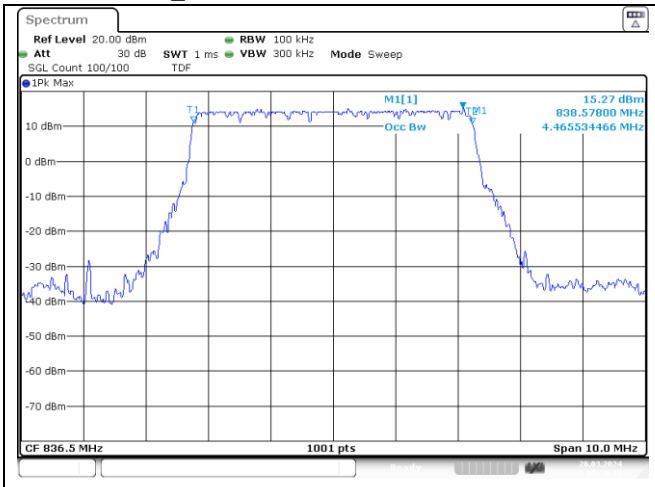


40 ㎒ Middle Channel - CP-OFDM QPSK

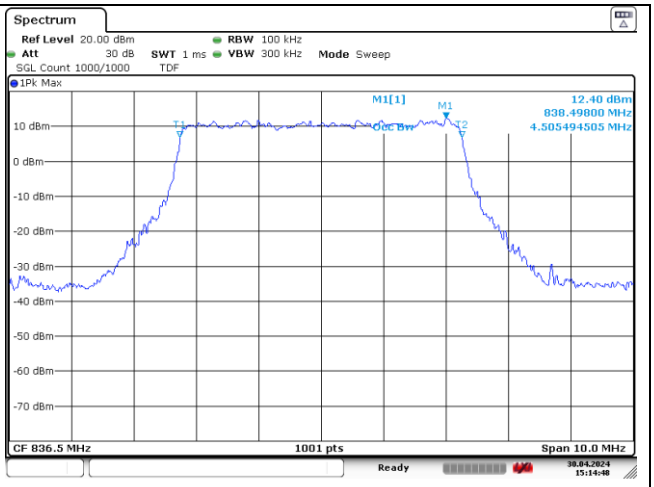


40 ㎒ Middle Channel - CP-OFDM 16QAM

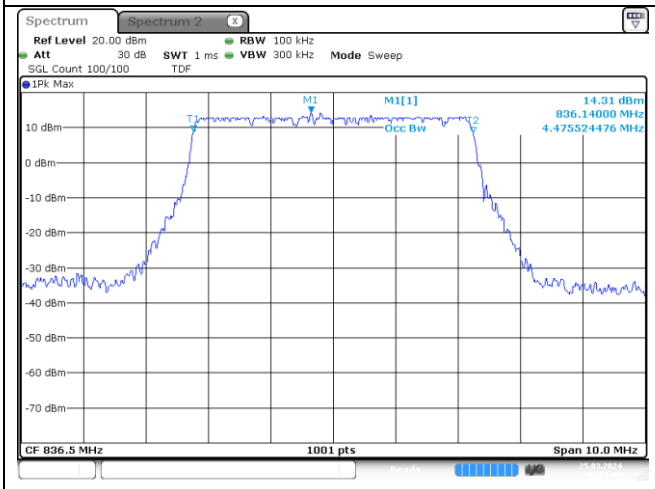
NR band 26/5_Part 22



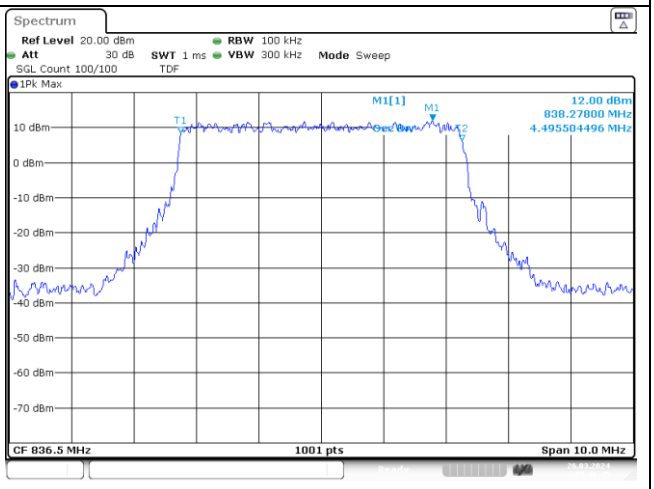
5 ㎒ Middle Channel - DFT-S-OFDM BPSK



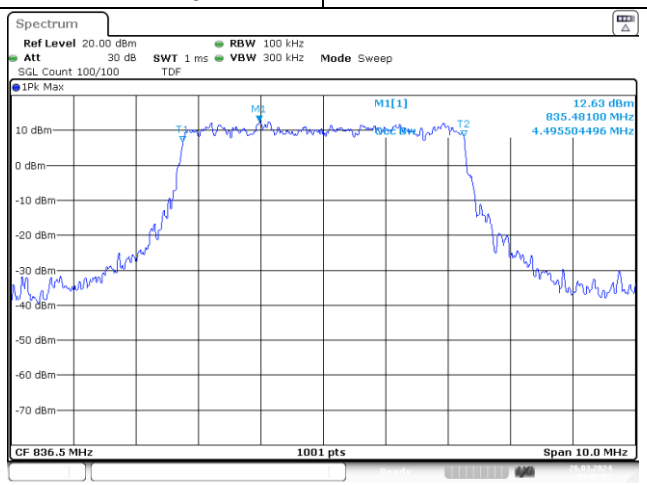
5 ㎒ Middle Channel - DFT-S-OFDM QPSK



5 ㎒ Middle Channel - DFT-S-OFDM 16QAM

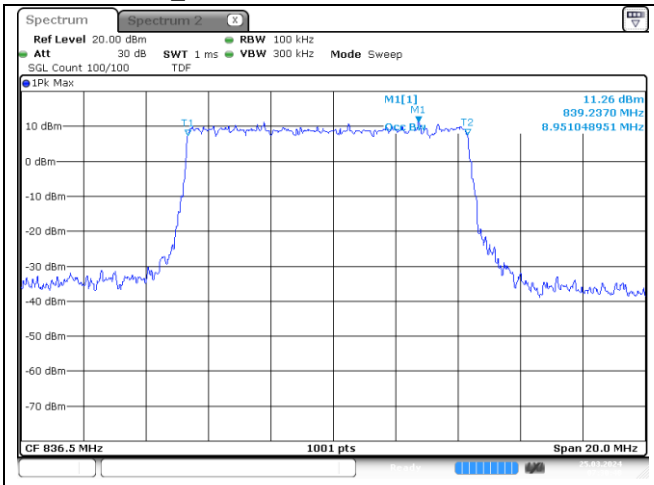


5 ㎒ Middle Channel - CP-OFDM QPSK

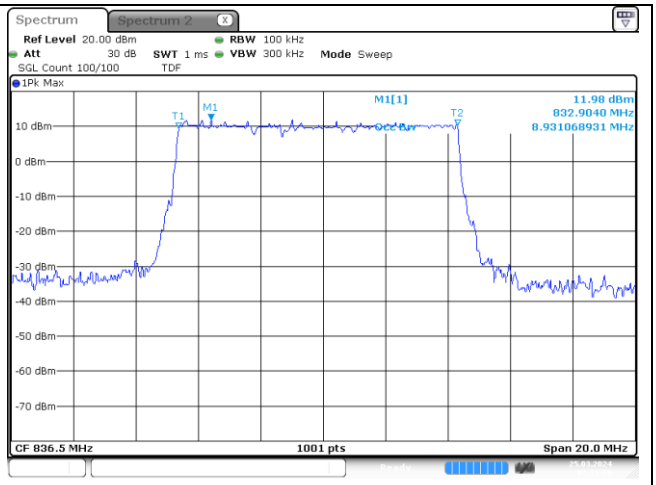


5 ㎒ Middle Channel - CP-OFDM 16QAM

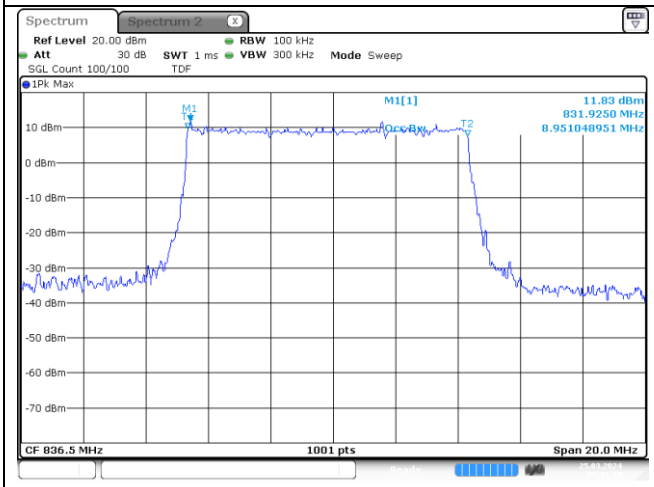
NR band 26/5_Part 22



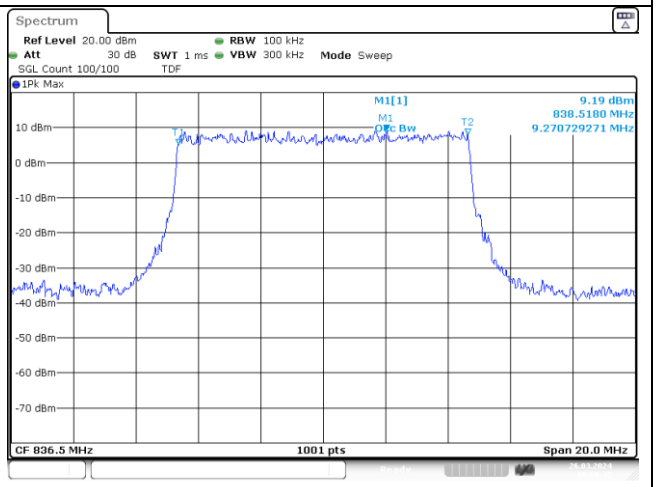
10 ㎒ Middle Channel - DFT-S-OFDM BPSK



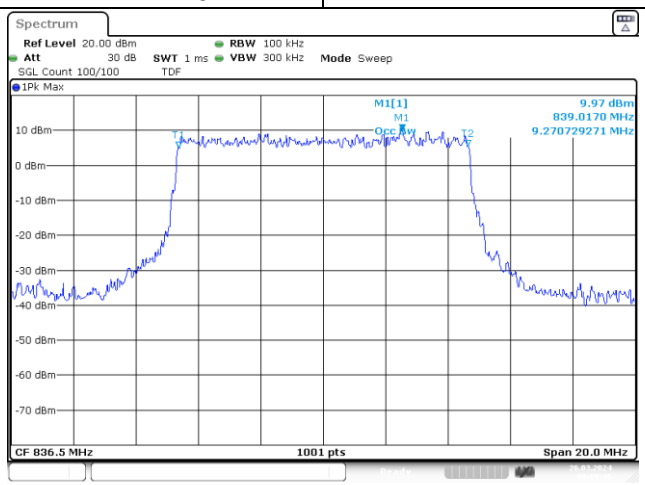
10 ㎒ Middle Channel - DFT-S-OFDM QPSK



10 ㎒ Middle Channel - DFT-S-OFDM 16QAM

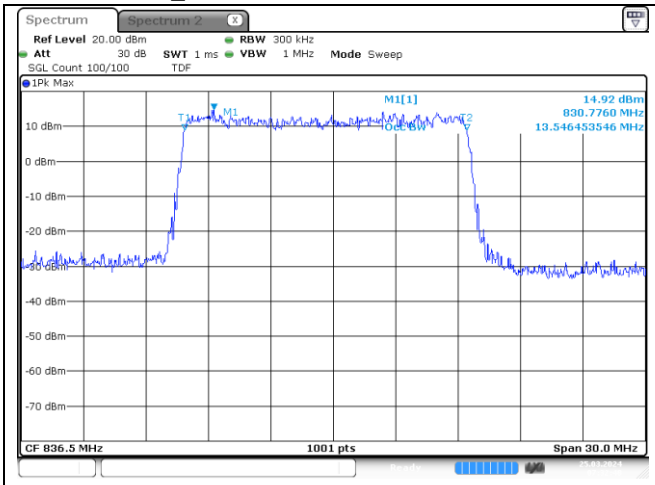


10 ㎒ Middle Channel - CP-OFDM QPSK

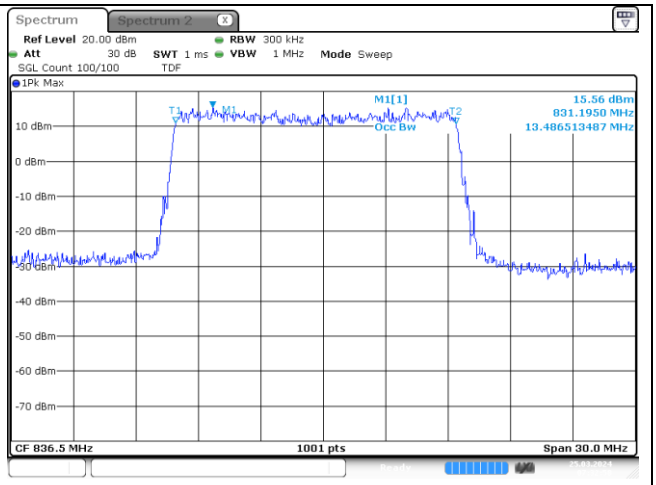


10 ㎒ Middle Channel - CP-OFDM 16QAM

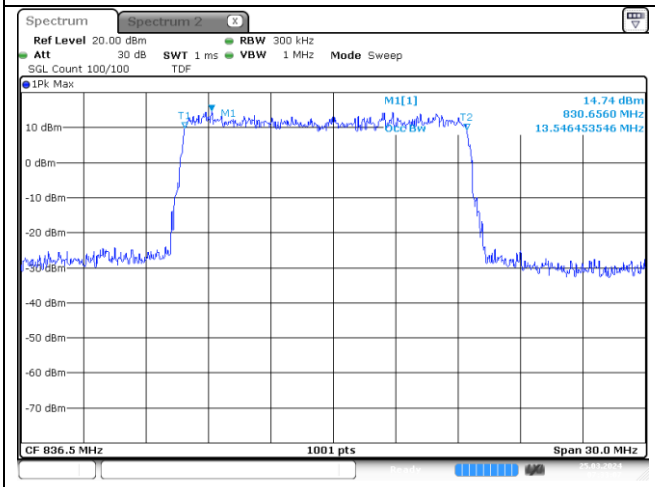
NR band 26/5_Part 22



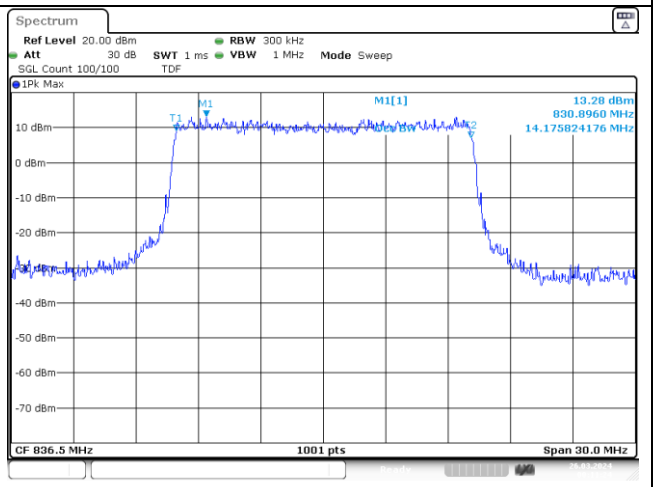
15 ㎒ Middle Channel - DFT-S-OFDM BPSK



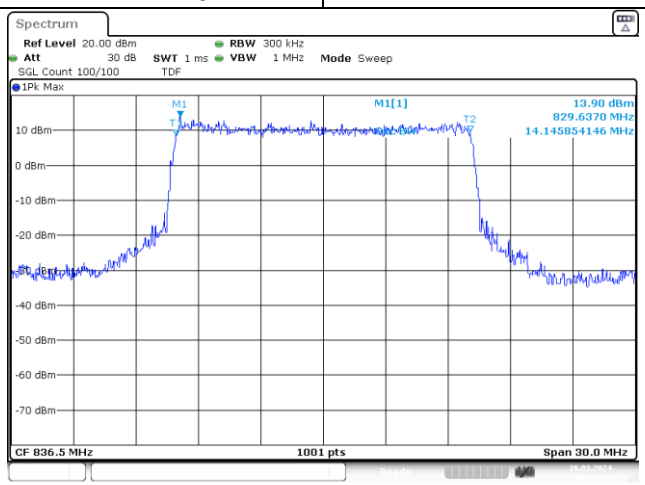
15 ㎒ Middle Channel - DFT-S-OFDM QPSK



15 ㎒ Middle Channel - DFT-S-OFDM 16QAM

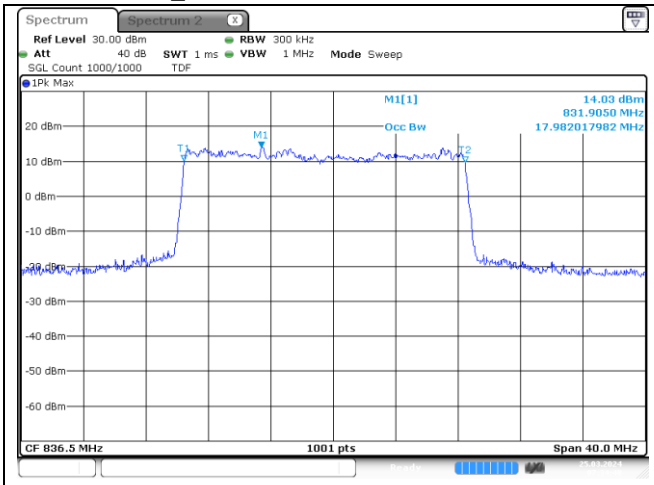


15 ㎒ Middle Channel - CP-OFDM QPSK

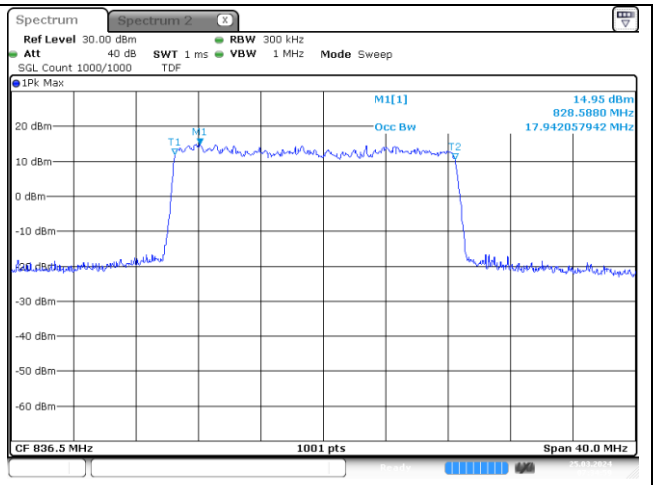


15 ㎒ Middle Channel - CP-OFDM 16QAM

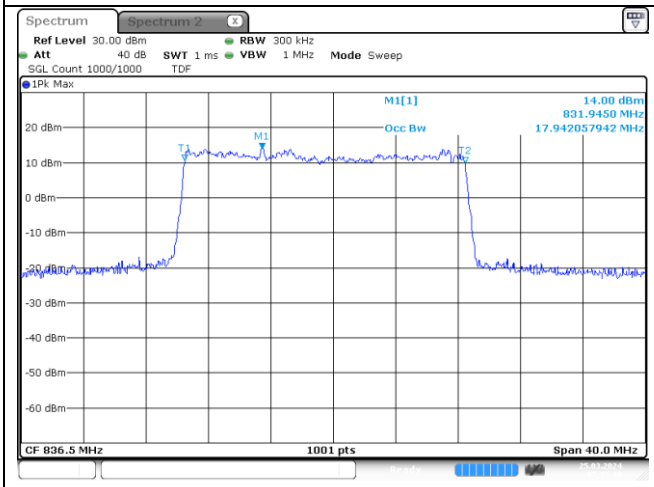
NR band 26/5_Part 22



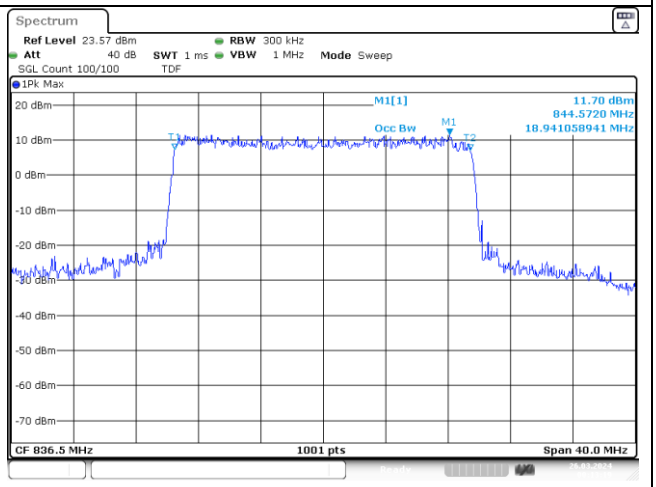
20 ㎒ Middle Channel - DFT-S-OFDM BPSK



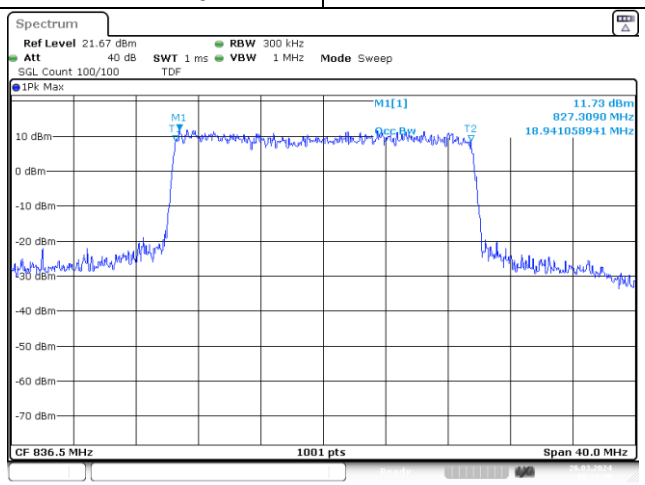
20 ㎒ Middle Channel - DFT-S-OFDM QPSK



20 ㎒ Middle Channel - DFT-S-OFDM 16QAM

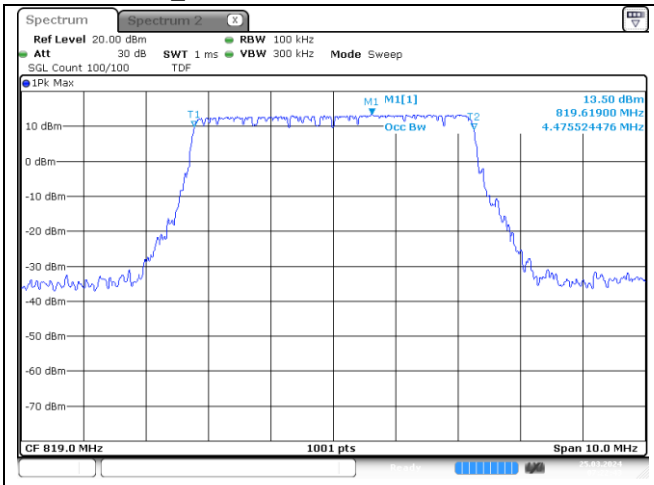


20 ㎒ Middle Channel - CP-OFDM QPSK

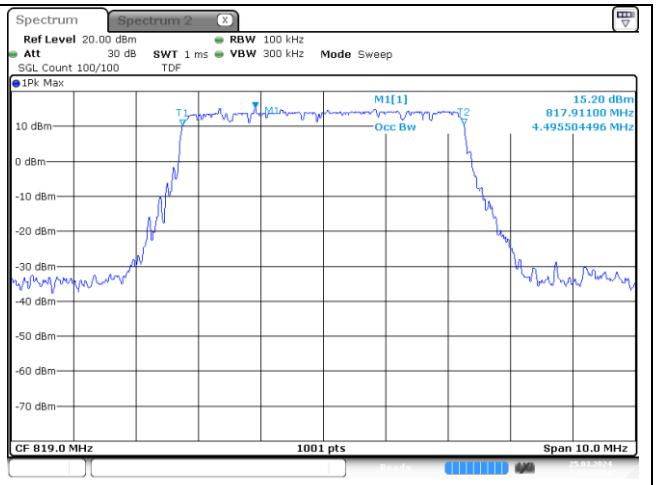


20 ㎒ Middle Channel - CP-OFDM 16QAM

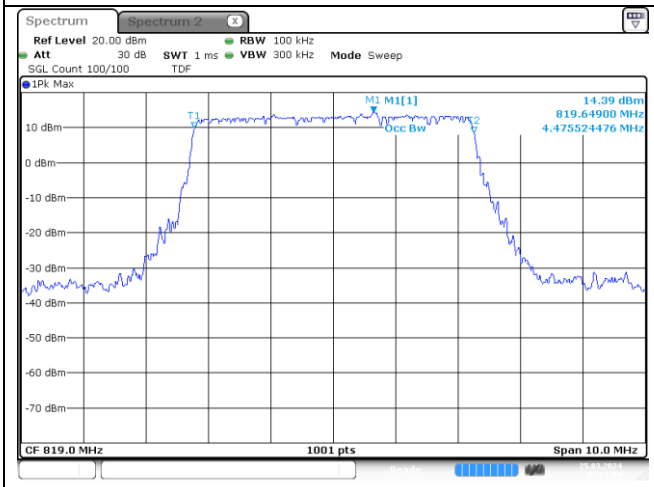
NR band 26/5_Part 90



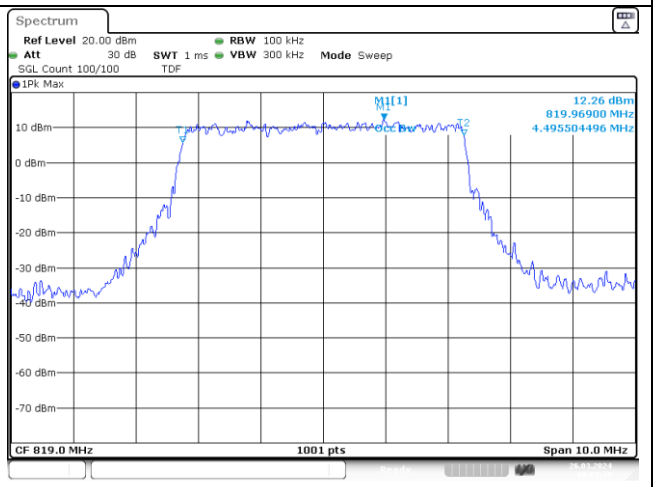
5 ㎒ Middle Channel - DFT-S-OFDM BPSK



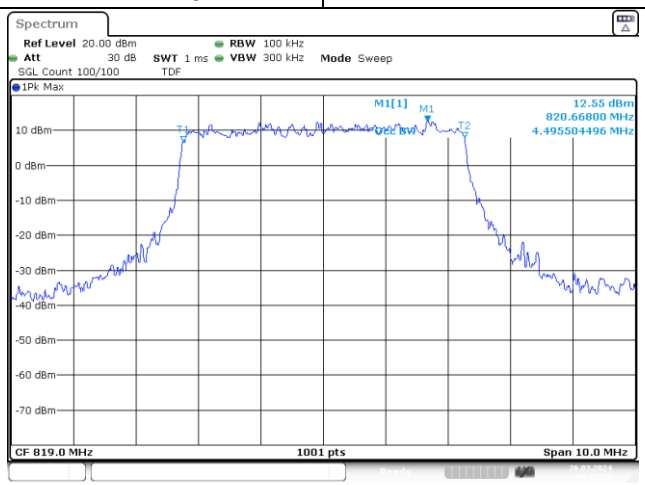
5 ㎒ Middle Channel - DFT-S-OFDM QPSK



5 ㎒ Middle Channel - DFT-S-OFDM 16QAM

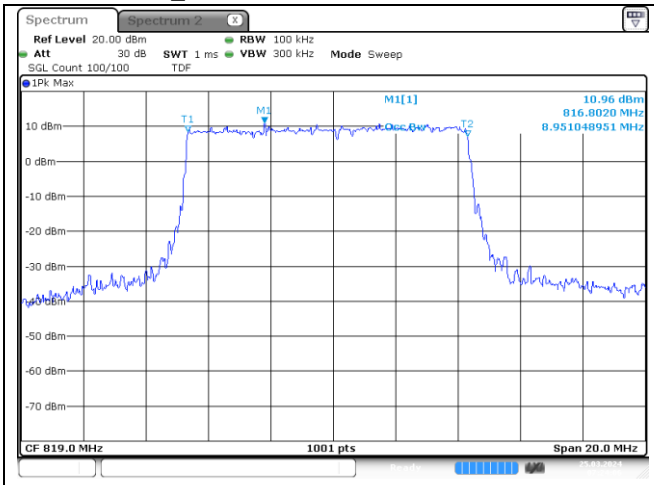


5 ㎒ Middle Channel - CP-OFDM QPSK

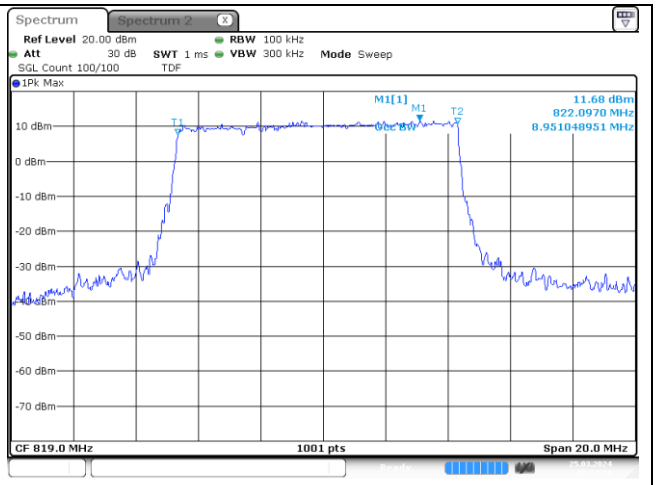


5 ㎒ Middle Channel - CP-OFDM 16QAM

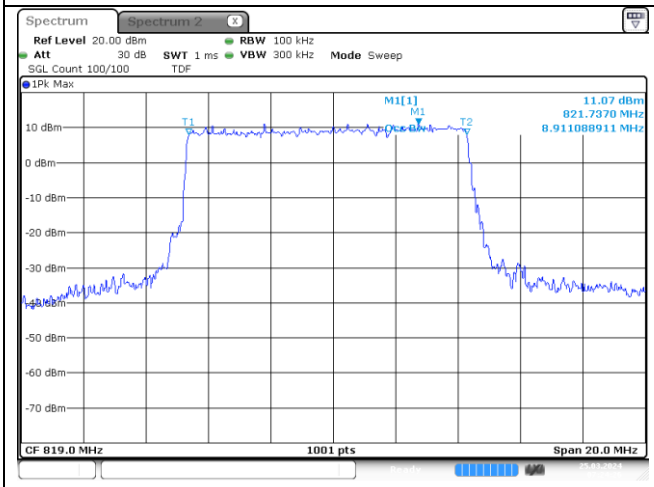
NR band 26/5_Part 90



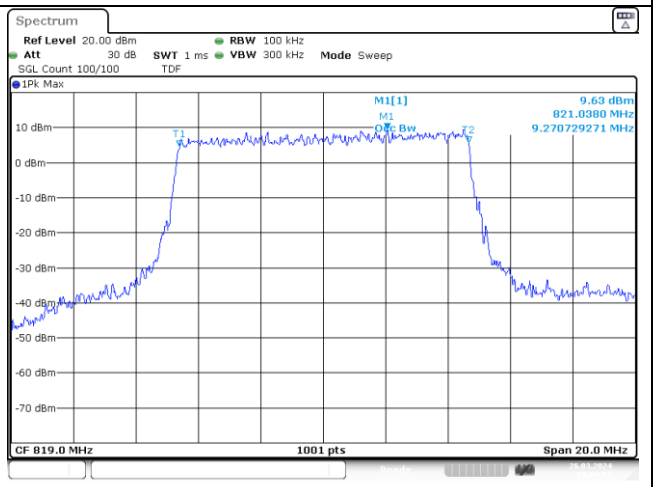
10 ㎒ Middle Channel - DFT-S-OFDM BPSK



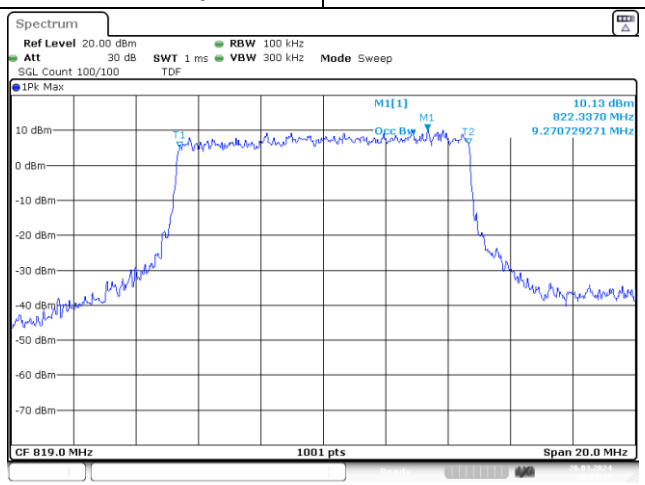
10 ㎒ Middle Channel - DFT-S-OFDM QPSK



10 ㎒ Middle Channel - DFT-S-OFDM 16QAM

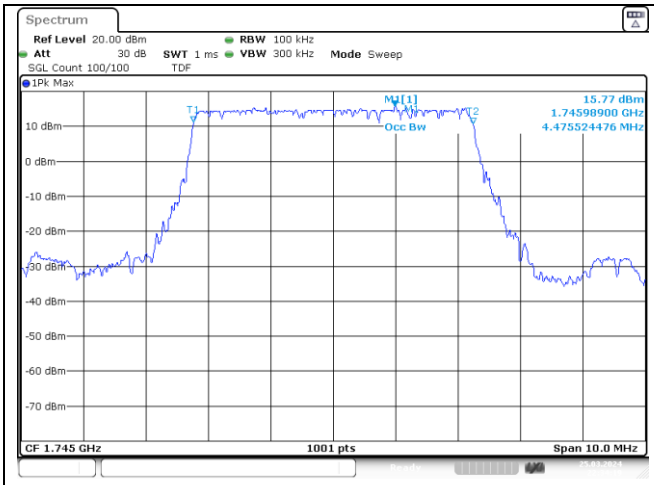


10 ㎒ Middle Channel - CP-OFDM QPSK

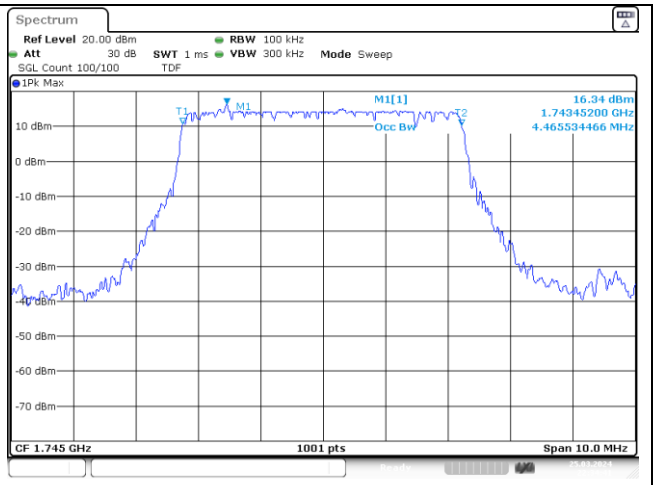


10 ㎒ Middle Channel - CP-OFDM 16QAM

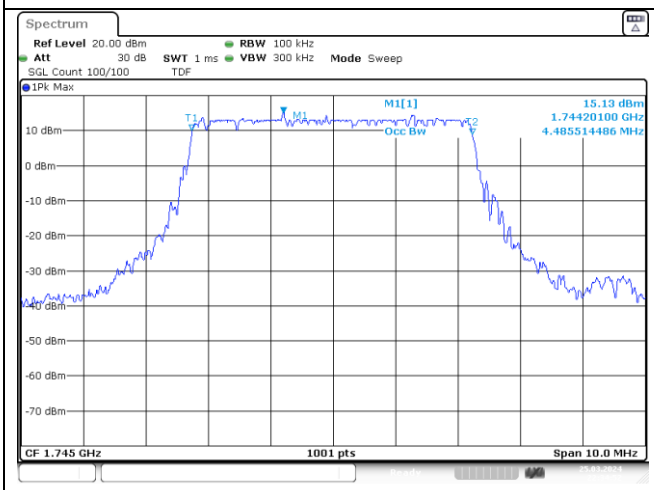
NR band 66



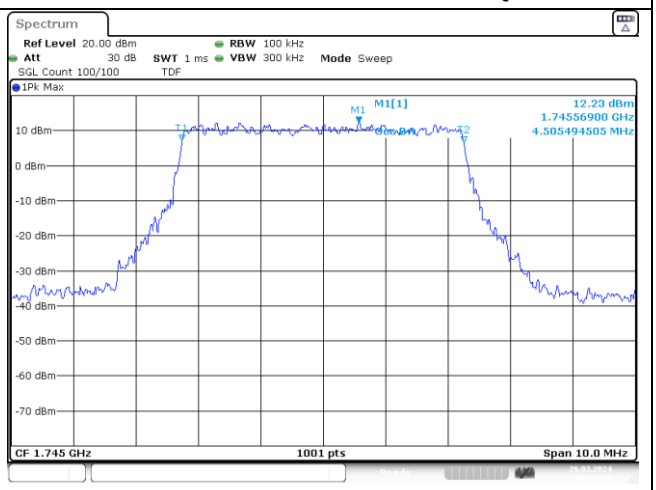
5 ㎒ Middle Channel - DFT-S-OFDM BPSK



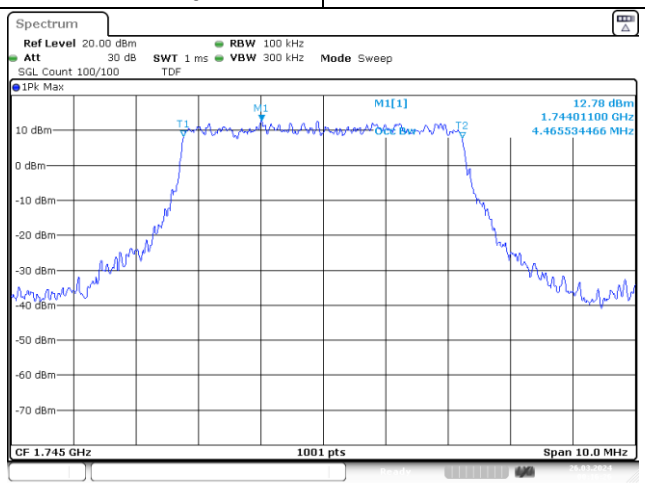
5 ㎒ Middle Channel - DFT-S-OFDM QPSK



5 ㎒ Middle Channel - DFT-S-OFDM 16QAM

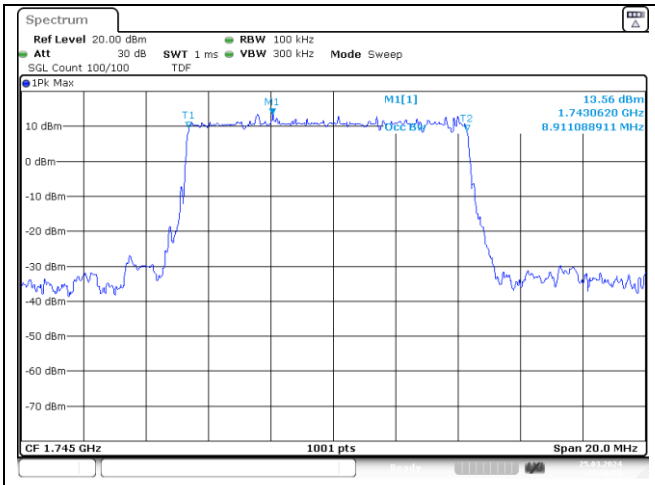


5 ㎒ Middle Channel - CP-OFDM QPSK

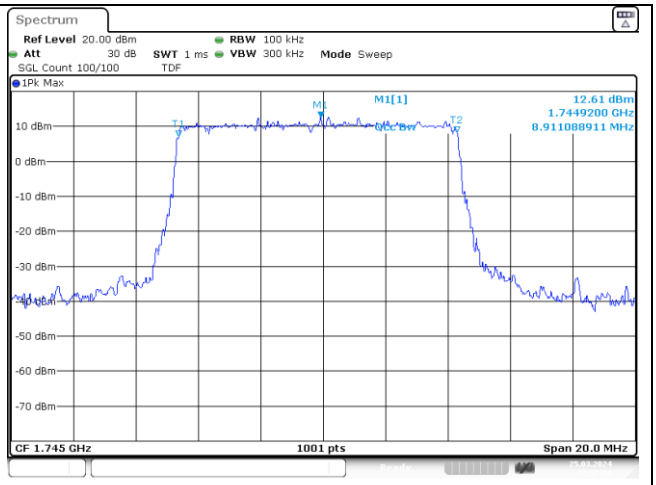


5 ㎒ Middle Channel - CP-OFDM 16QAM

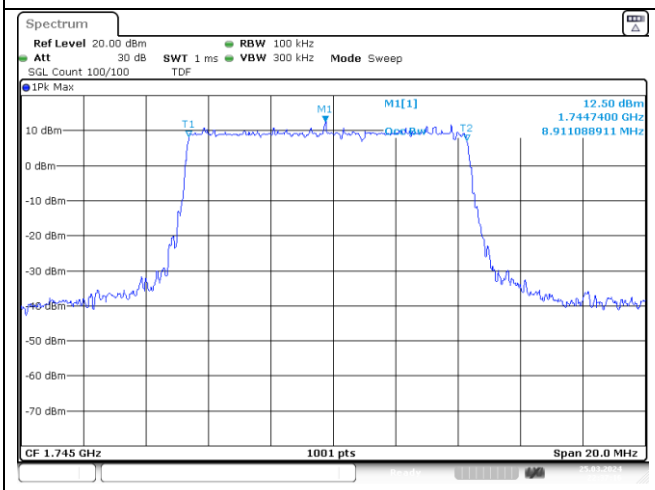
NR band 66



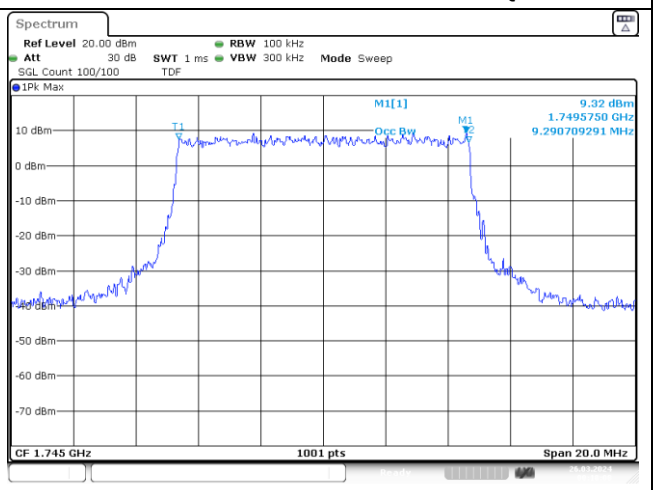
10 ㎒ Middle Channel - DFT-S-OFDM BPSK



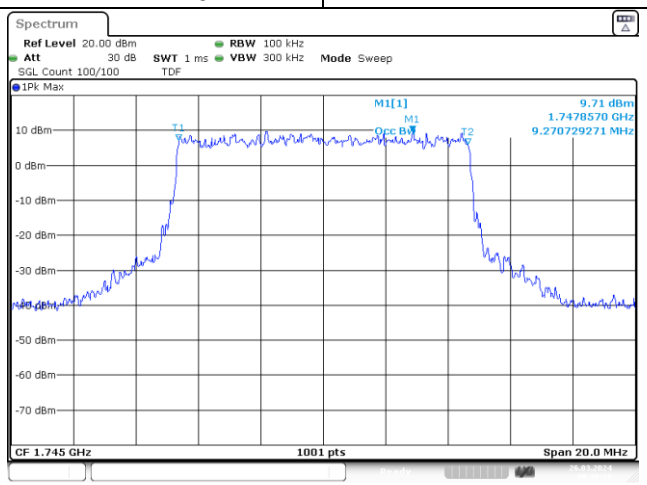
10 ㎒ Middle Channel - DFT-S-OFDM QPSK



10 ㎒ Middle Channel - DFT-S-OFDM 16QAM

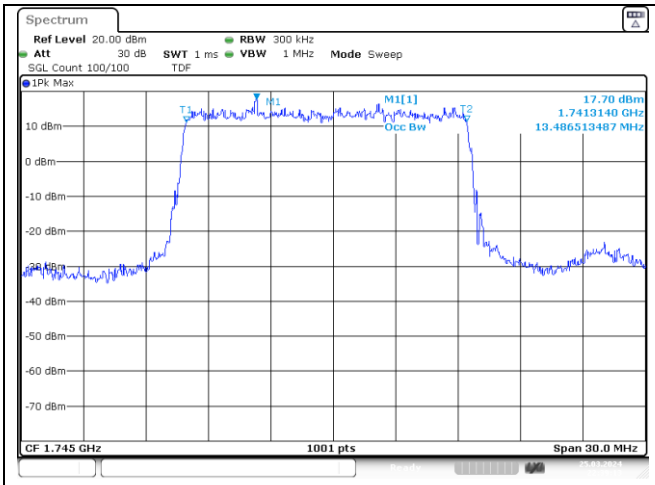


10 ㎒ Middle Channel - CP-OFDM QPSK

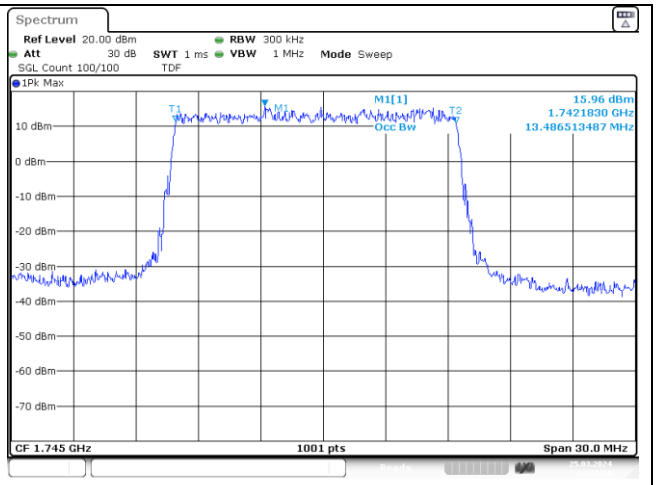


10 ㎒ Middle Channel - CP-OFDM 16QAM

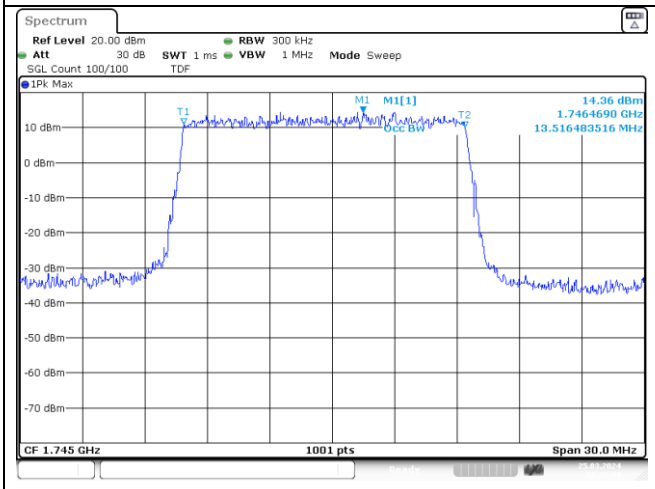
NR band 66



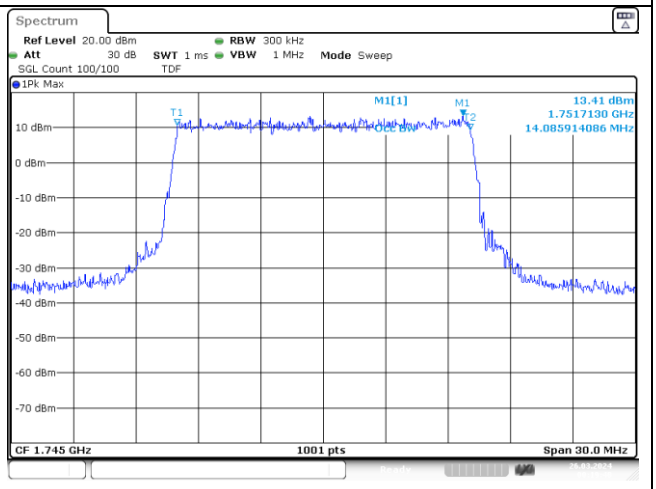
15 ㎒ Middle Channel - DFT-S-OFDM BPSK



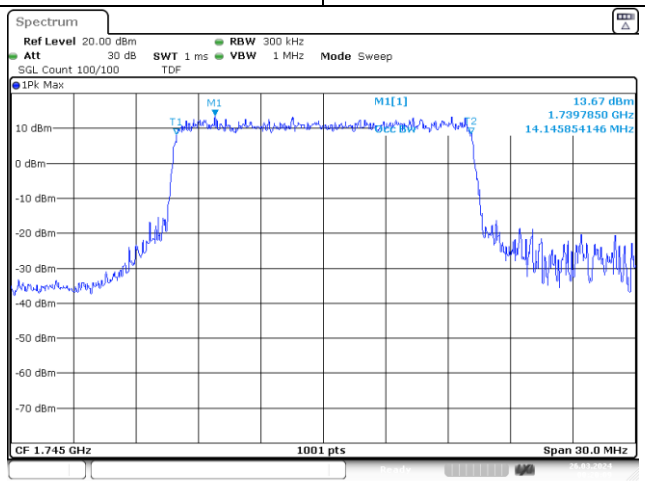
15 ㎒ Middle Channel - DFT-S-OFDM QPSK



15 ㎒ Middle Channel - DFT-S-OFDM 16QAM

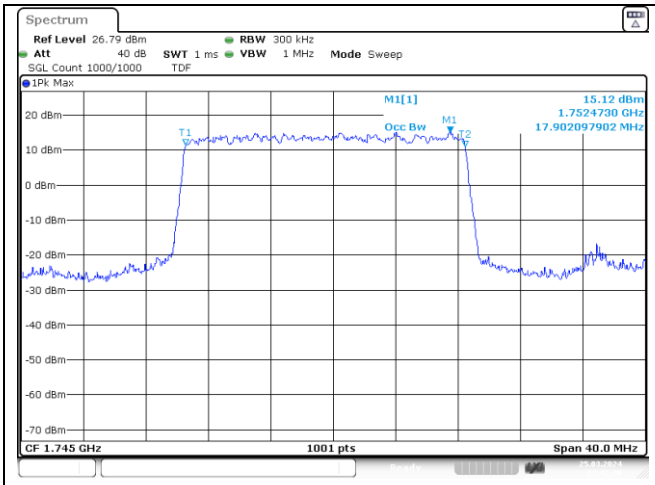


15 ㎒ Middle Channel - CP-OFDM QPSK

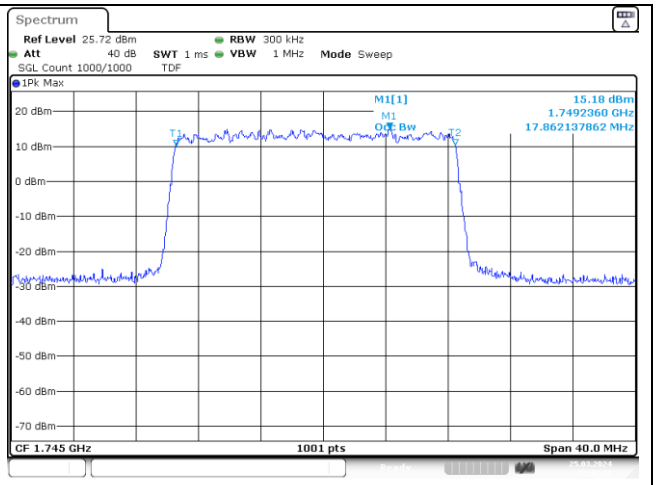


15 ㎒ Middle Channel - CP-OFDM 16QAM

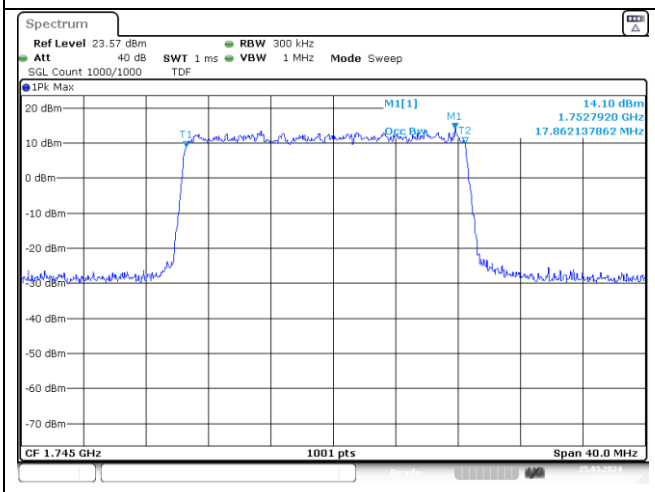
NR band 66



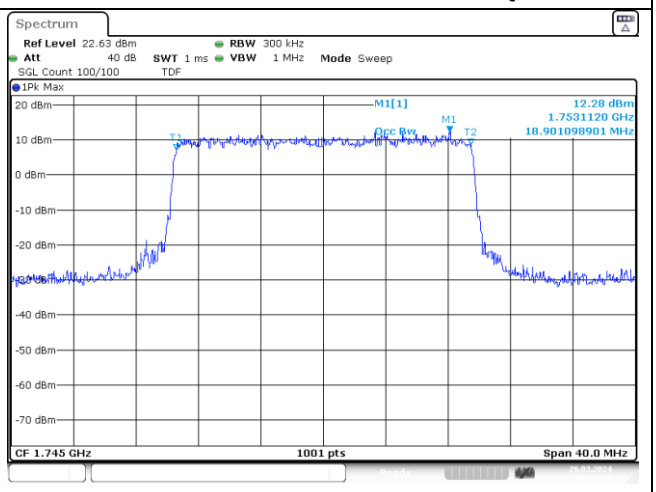
20 ㎒ Middle Channel - DFT-S-OFDM BPSK



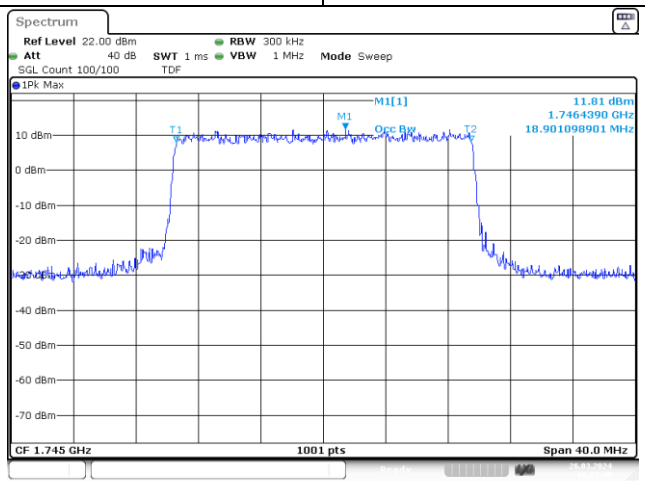
20 ㎒ Middle Channel - DFT-S-OFDM QPSK



20 ㎒ Middle Channel - DFT-S-OFDM 16QAM

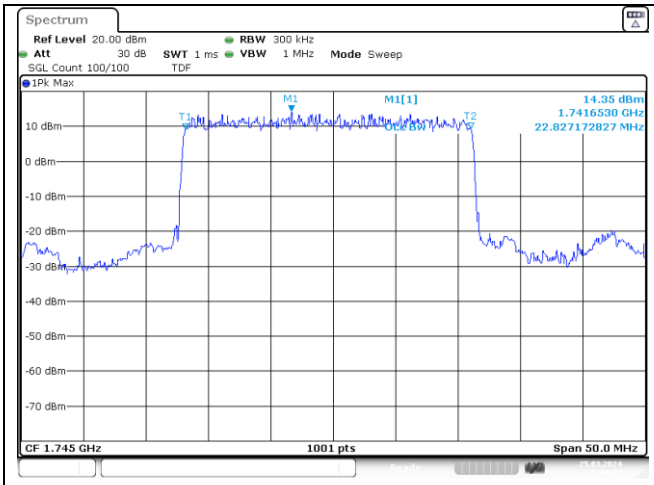


20 ㎒ Middle Channel - CP-OFDM QPSK

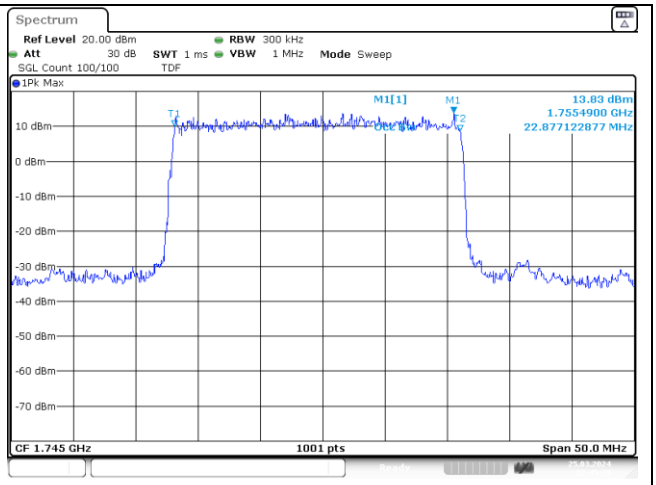


20 ㎒ Middle Channel - CP-OFDM 16QAM

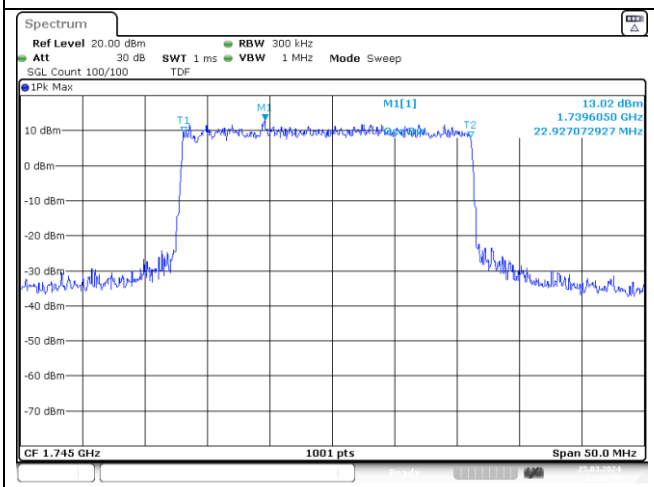
NR band 66



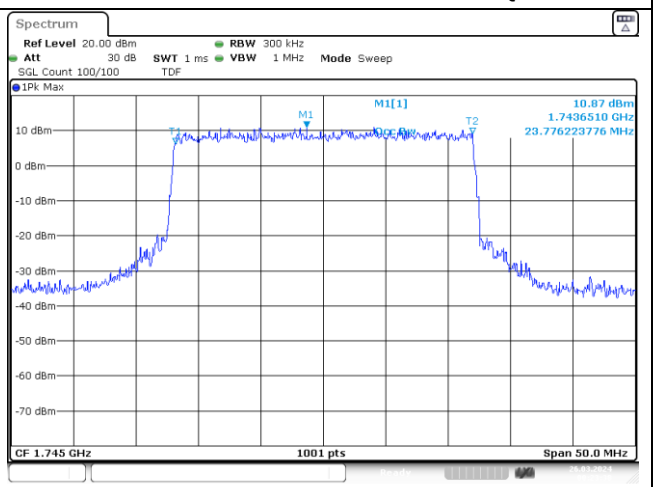
25 ㎒ Middle Channel - DFT-S-OFDM BPSK



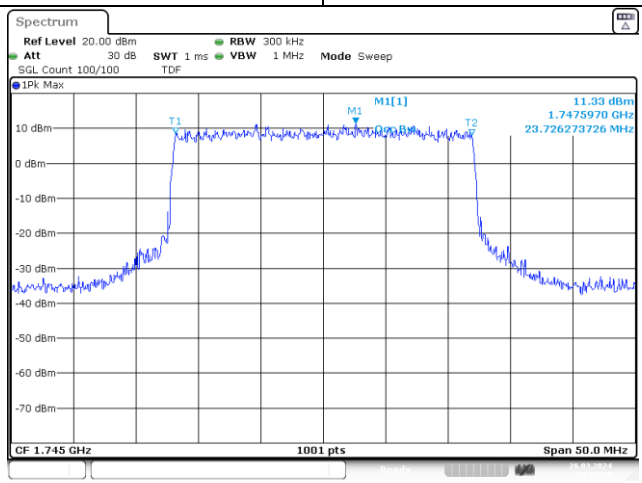
25 ㎒ Middle Channel - DFT-S-OFDM QPSK



25 ㎒ Middle Channel - DFT-S-OFDM 16QAM

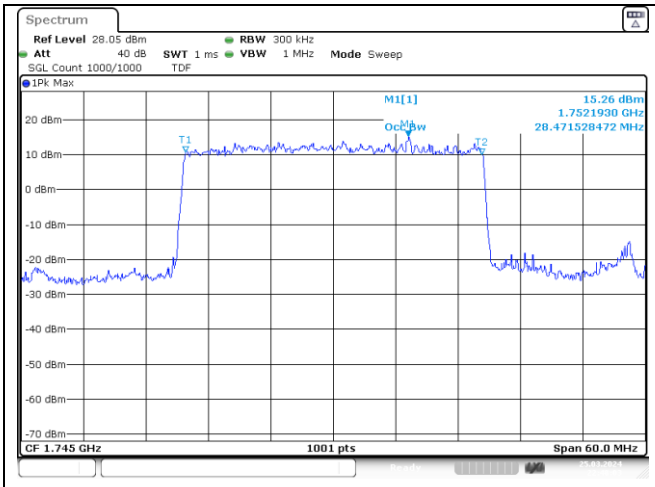


25 ㎒ Middle Channel - CP-OFDM QPSK

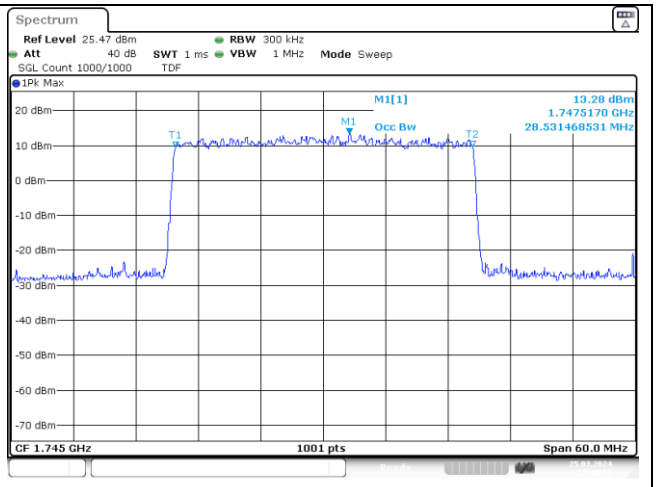


25 ㎒ Middle Channel - CP-OFDM 16QAM

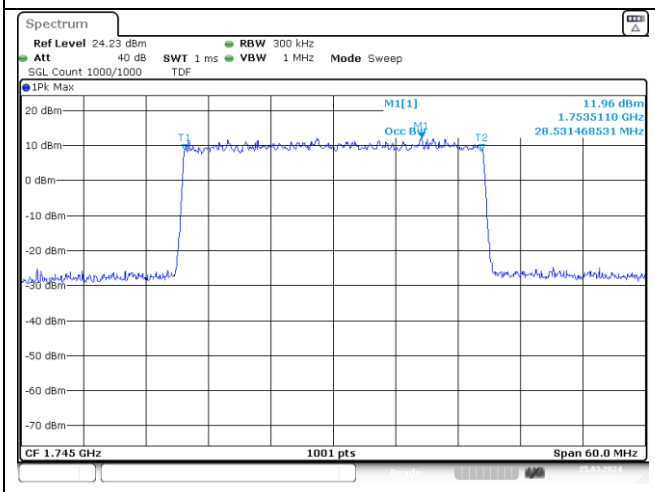
NR band 66



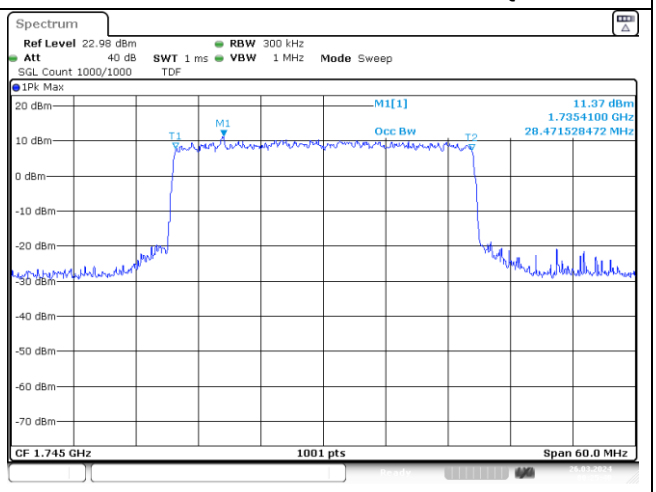
30 ㎒ Middle Channel - DFT-S-OFDM BPSK



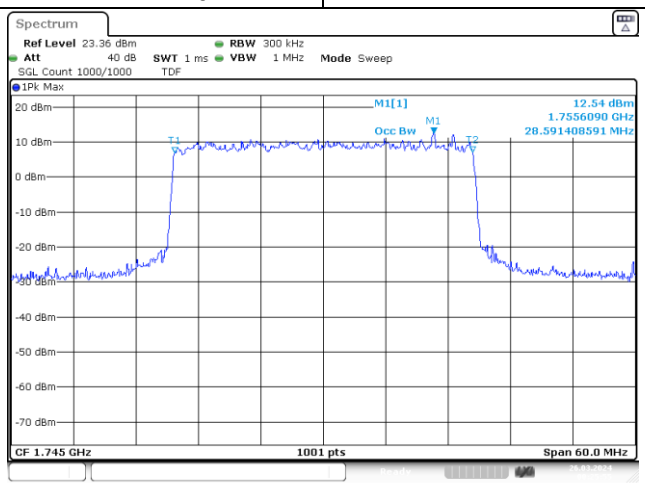
30 ㎒ Middle Channel - DFT-S-OFDM QPSK



30 ㎒ Middle Channel - DFT-S-OFDM 16QAM

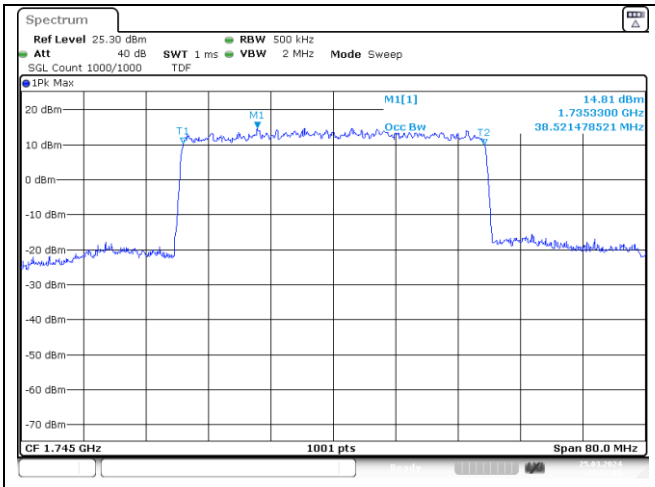


30 ㎒ Middle Channel - CP-OFDM QPSK

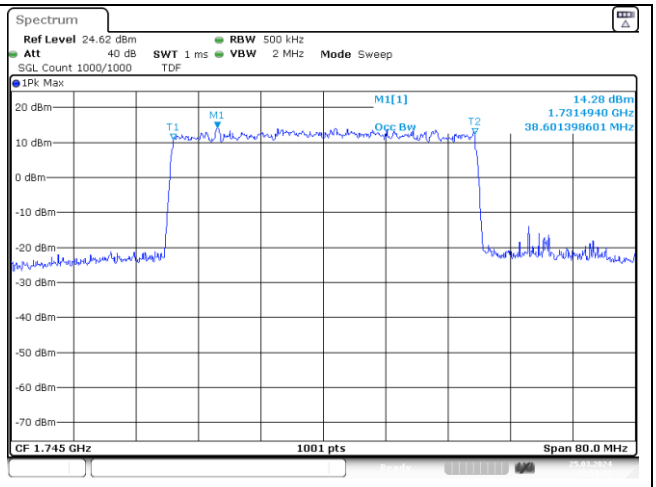


30 ㎒ Middle Channel - CP-OFDM 16QAM

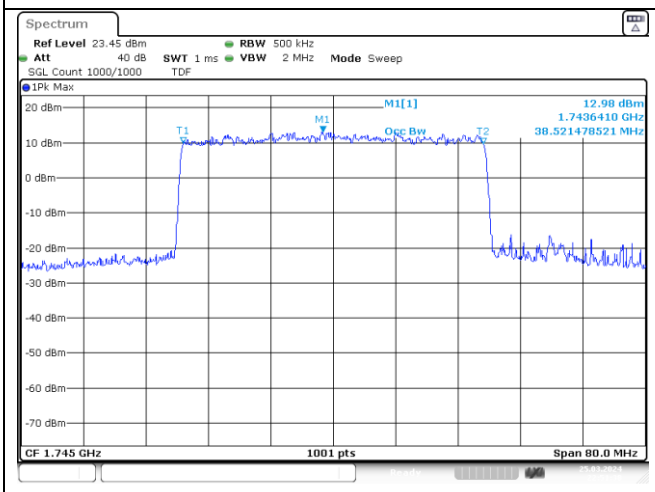
NR band 66



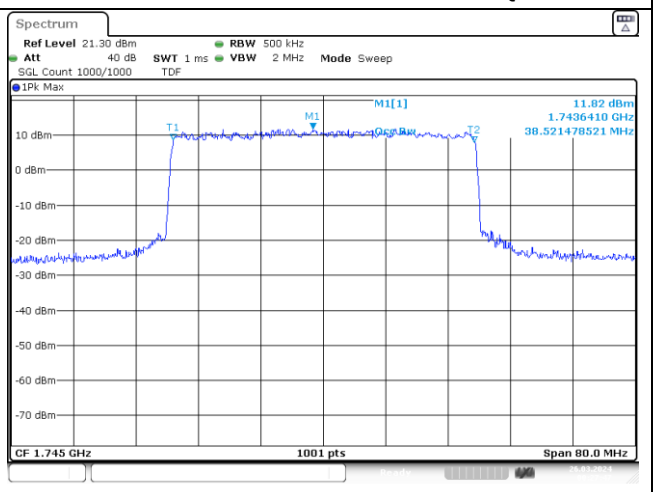
40 ㎒ Middle Channel - DFT-S-OFDM BPSK



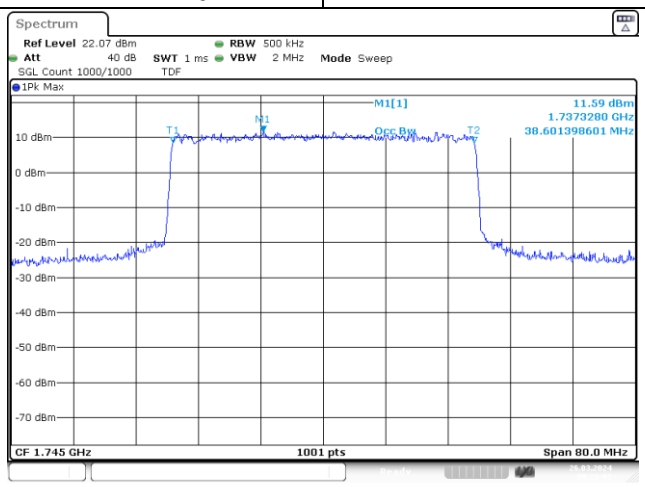
40 ㎒ Middle Channel - DFT-S-OFDM QPSK



40 ㎒ Middle Channel - DFT-S-OFDM 16QAM



40 ㎒ Middle Channel - CP-OFDM QPSK



40 ㎒ Middle Channel - CP-OFDM 16QAM

5. Peak-Average Ratio

5.1. Limit

- §22.913(d) measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 ㏈.

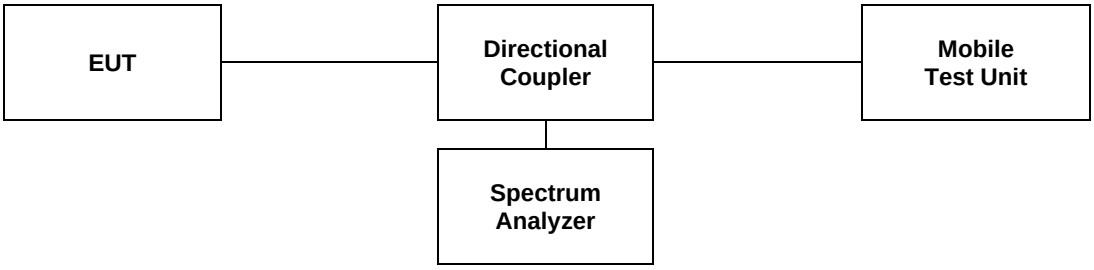
- §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 ㏈.

- §27.50(d)(5), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 ㏈.

5.2. Test Procedure

The test follows section 5.2.3.4 of ANSI C63.26-2015.

See instrumentation-specific application literature for further guidance regarding use of the CCDF capability.
The following guidelines are offered for performing a CCDF measurement.
a. Set resolution/measurement bandwidth ≥ OBW or specified reference bandwidth.
b. Set the number of counts to a value that stabilizes the measured CCDF curve.
c. Set the measurement interval as follows:
1) For continuous transmissions, set to greater of [10 x (number of points in sweep) x (transmission symbol period)] or 1 ㎳.
2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
d. Record the maximum PAPR level associated with a probability of 0.1 %.
e. The peak power level is calculated form the sum of the PAPR value from step d) to the measured average power.



5.3 Test Results

Ambient temperature : (23 ± 1) ℃

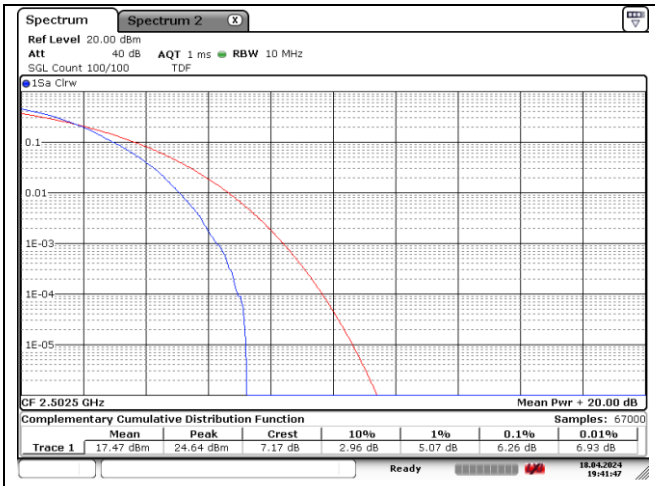
Relative humidity : 47 % R.H.

Band	SCS (㎑)	BW (㎒)	Mode	Frequency (㎒)	PAR (㏈)	
					DFT-S-OFDM	CP-OFDM
7	15	5	256QAM	2 502.5	6.26	8.38
				2 535.0	6.20	8.41
				2 567.5	6.32	8.26
		10	256QAM	2 505.0	6.32	8.32
				2 535.0	6.41	8.38
				2 565.0	6.41	8.72
		15	256QAM	2 507.5	6.61	8.35
				2 535.0	6.64	8.38
				2 562.5	6.46	8.78
		20	256QAM	2 510.0	6.58	8.20
				2 535.0	6.64	8.26
				2 560.0	6.52	8.38
Band	**SCS (㎑)**	**BW (㎒)**	**Mode**	**Frequency (㎒)**	**PAR (㏈)**	
					DFT-S-OFDM	**CP-OFDM**
25/2	15	5	256QAM	1 852.5	6.29	8.26
				1 882.5	6.26	8.61
				1 912.5	6.26	8.09
		10	256QAM	1 855.0	6.43	8.55
				1 882.5	6.35	8.55
				1 910.0	6.38	8.55
		15	256QAM	1 857.5	6.55	8.46
				1 882.5	6.55	8.38
				1 907.5	6.49	8.32
		20	256QAM	1 860.0	6.64	8.29
				1 882.5	6.61	8.35
				1 905.0	6.52	8.46
		25	256QAM	1862.5	6.52	8.67
				1882.5	6.49	8.38
				1902.5	6.67	8.78
		30	256QAM	1 865.0	6.43	8.58
				1 882.5	6.52	8.46
				1 900.0	6.41	8.43
		40	256QAM	1 870.0	6.26	8.61
				1 882.5	6.41	8.41
				1 895.0	6.67	8.35
Band	**SCS (㎑)**	**BW (㎒)**	**Mode**	**Frequency (㎒)**	**PAR (㏈)**	
					DFT-S-OFDM	**CP-OFDM**
26/5 Part 22	15	5	256QAM	826.5	6.06	8.75
				836.5	6.35	8.78
				846.5	6.26	8.32
		10	256QAM	829.0	6.26	8.52
				836.5	6.49	8.35
				844.0	6.26	8.49
		15	256QAM	831.5	6.58	8.23
				836.5	6.49	8.43
				841.5	6.52	8.35
		20	256QAM	834.0	6.58	8.43
				836.5	6.49	8.41
				839.0	6.52	8.41

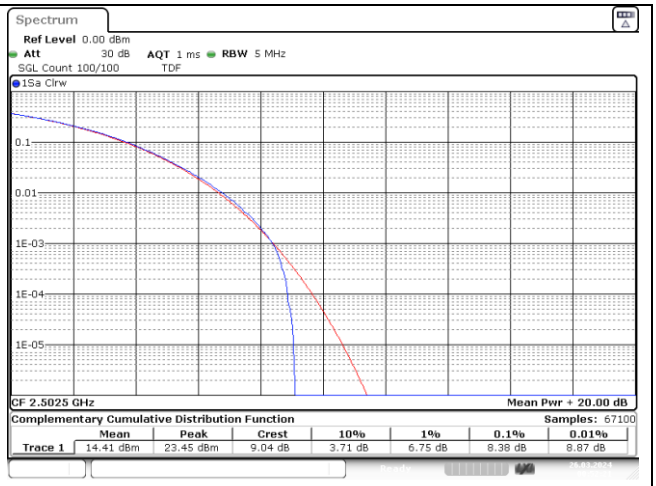
Band	SCS (kHz)	BW (MHz)	Mode	Frequency (MHz)	PAR (dB)	
					DFT-S-OFDM	CP-OFDM
26/5 Part 90	15	5	256QAM	816.5	6.32	8.43
				819.0	6.32	8.38
				821.5	6.32	8.17
		10		819.0	6.43	8.43
Band	**SCS (kHz)**	**BW (MHz)**	**Mode**	**Frequency (MHz)**	**PAR (dB)**	
					DFT-S-OFDM	**CP-OFDM**
66	15	5	256QAM	1 712.5	6.26	8.52
				1 745.0	6.20	8.46
				1 777.5	6.29	8.20
		10	256QAM	1 715.0	6.43	8.61
				1 745.0	6.29	8.32
				1 775.0	6.41	8.46
		15	256QAM	1 717.5	6.58	8.29
				1 745.0	6.52	8.35
				1 772.5	6.46	8.32
		20	256QAM	1 720.0	6.52	8.35
				1 745.0	6.55	8.32
				1 770.0	6.43	8.32
		25	256QAM	1 722.5	6.67	8.58
				1 745.0	6.58	8.61
				1 767.5	6.49	8.58
		30	256QAM	1 725.0	6.58	8.35
				1 745.0	6.32	8.32
				1 765.0	6.61	8.38
		40	256QAM	1 730.0	6.49	8.32
				1 745.0	6.35	8.35
				1 760.0	6.58	8.26

- Test plots

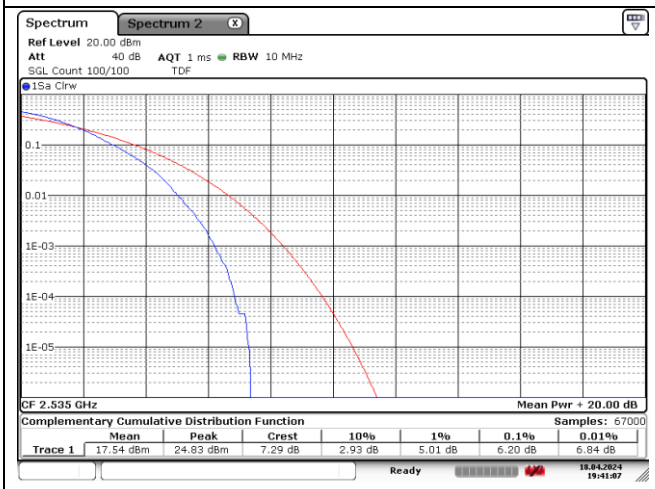
NR band 7



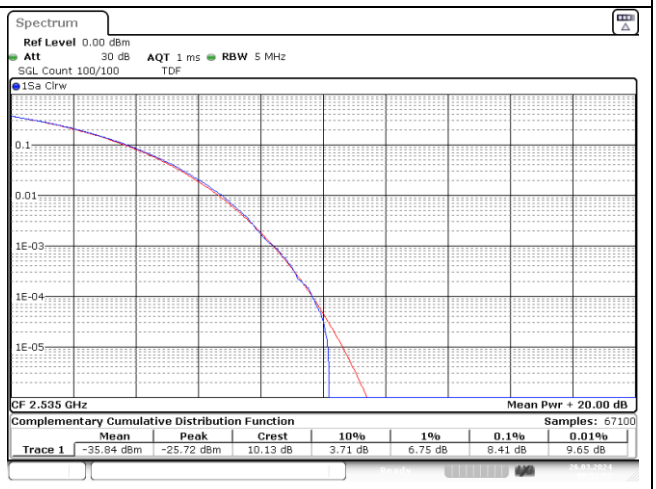
5 ㎒ Low Channel - DFT-S-OFDM 256QAM



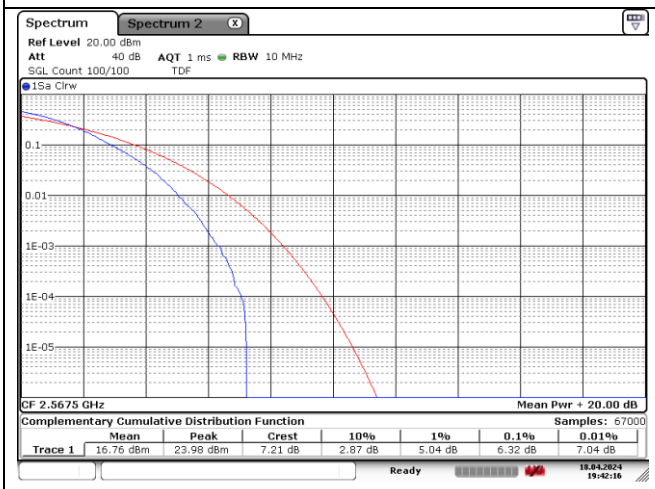
5 ㎒ Low Channel - CP-OFDM 256QAM



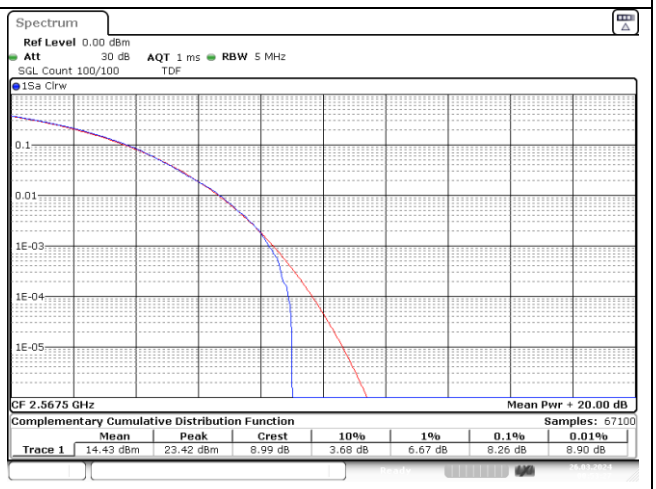
5 ㎒ Middle Channel - DFT-S-OFDM 256QAM



5 ㎒ Middle Channel - CP-OFDM 256QAM

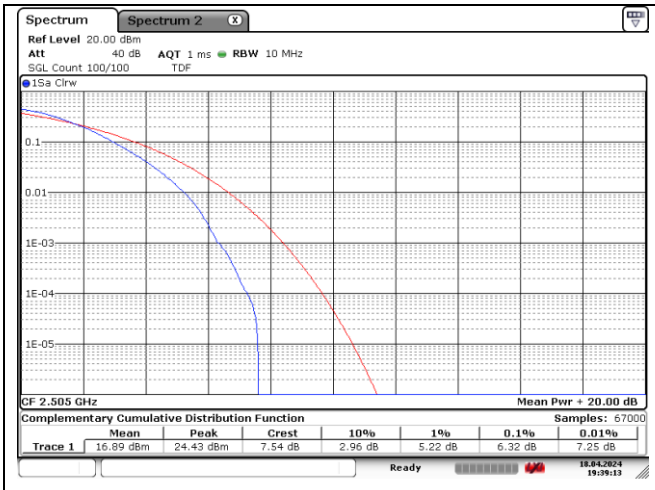


5 ㎒ High Channel - DFT-S-OFDM 256QAM

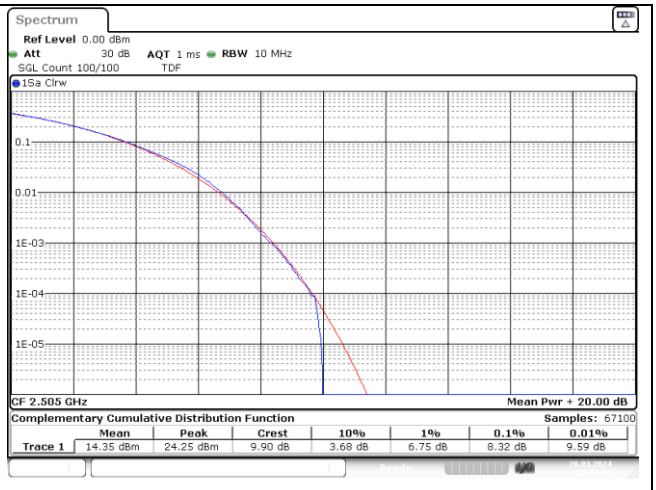


5 ㎒ High Channel - CP-OFDM 256QAM

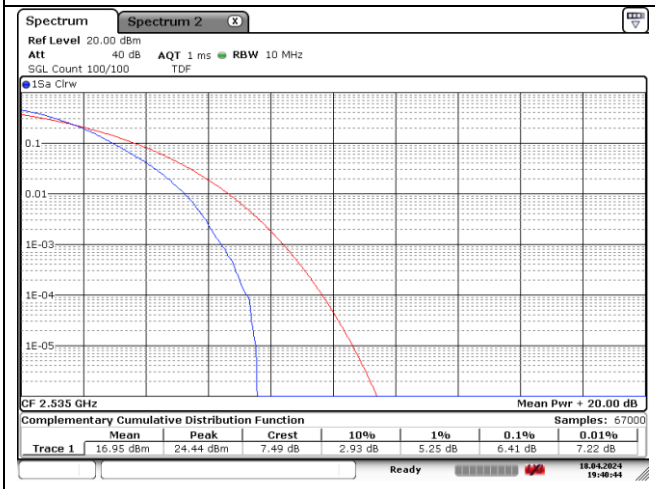
NR band 7



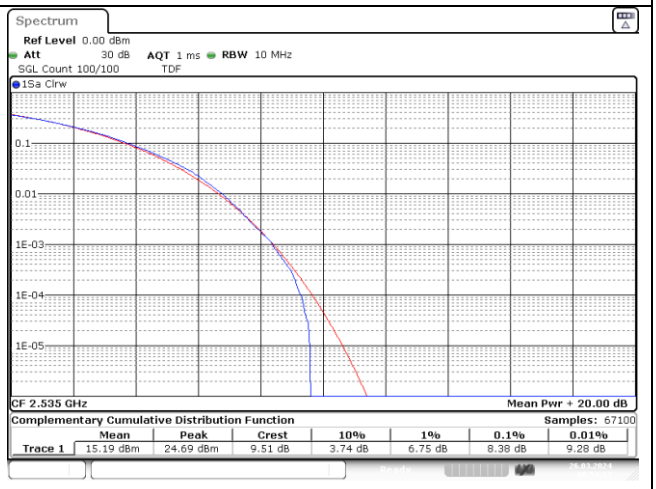
10 ㎒ Low Channel - DFT-S-OFDM 256QAM



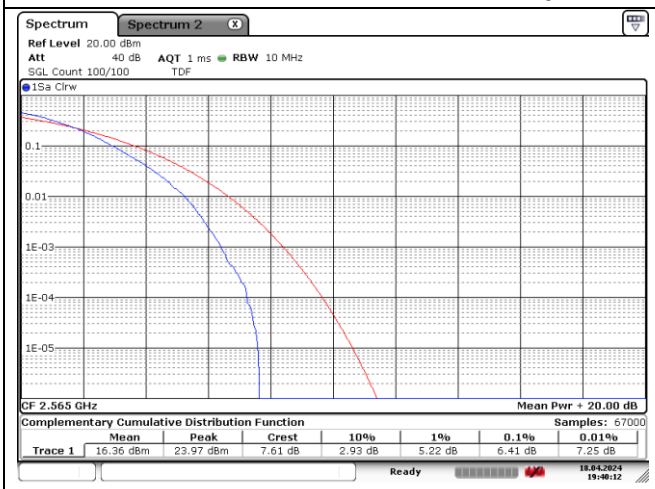
10 ㎒ Low Channel - CP-OFDM 256QAM



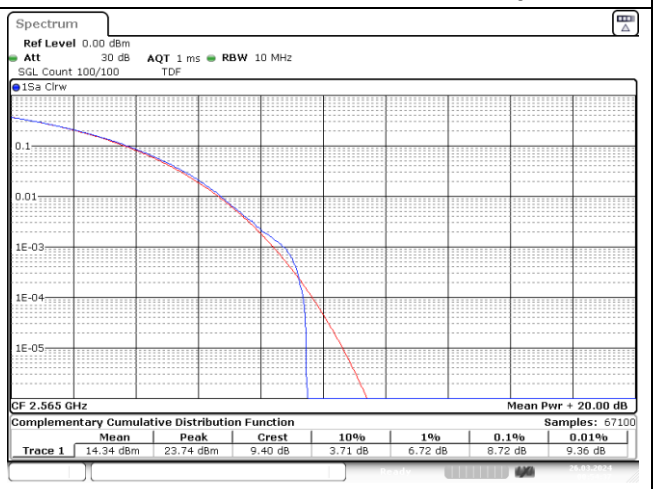
10 ㎒ Middle Channel - DFT-S-OFDM 256QAM



10 ㎒ Middle Channel - CP-OFDM 256QAM

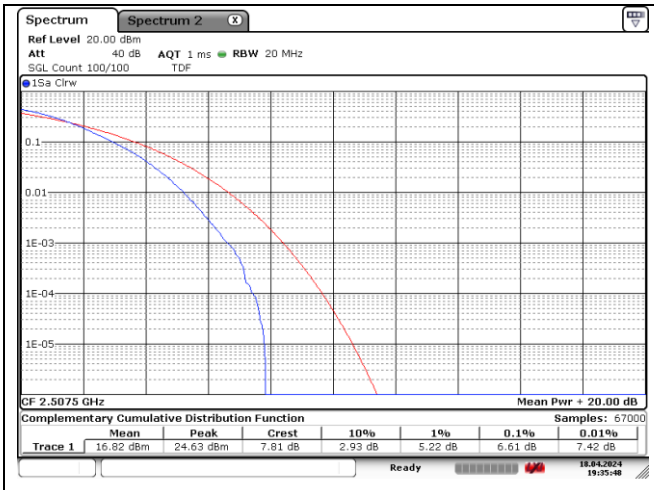


10 ㎒ High Channel - DFT-S-OFDM 256QAM

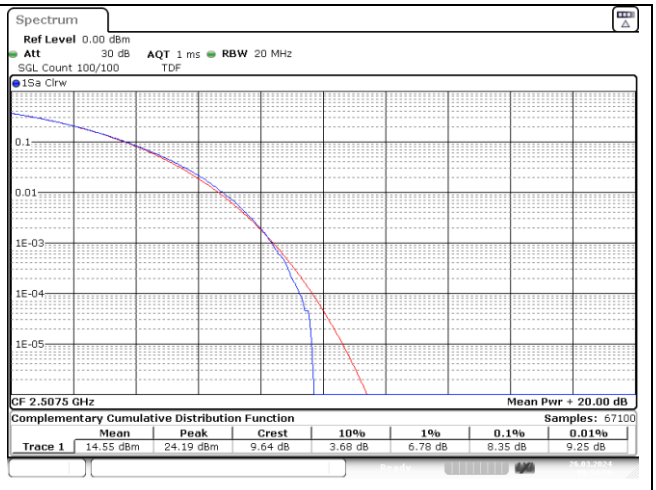


10 ㎒ High Channel - CP-OFDM 256QAM

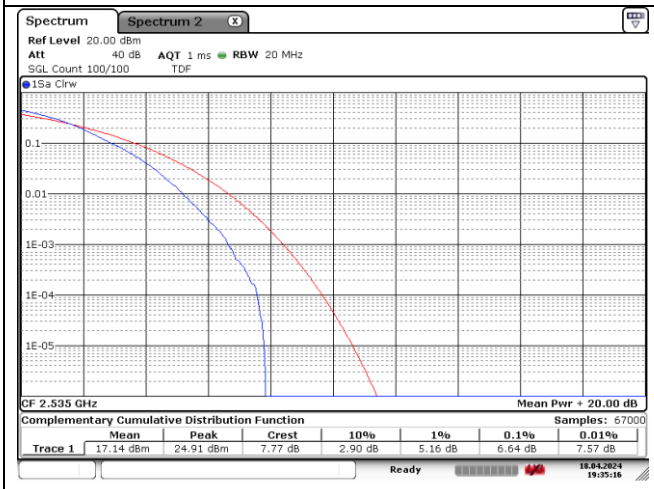
NR band 7



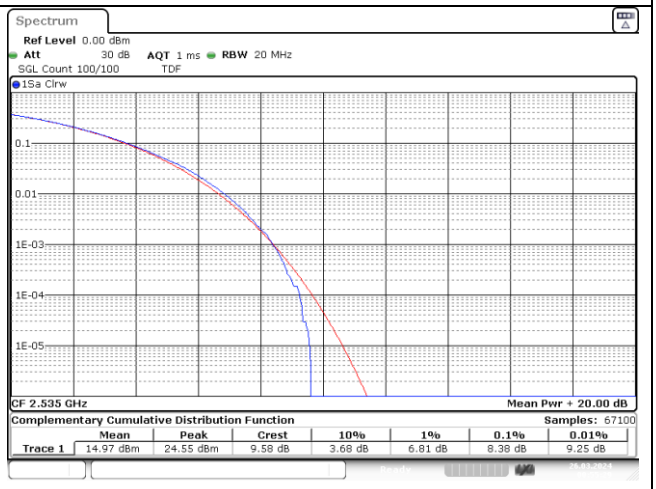
15 ㎒ Low Channel - DFT-S-OFDM 256QAM



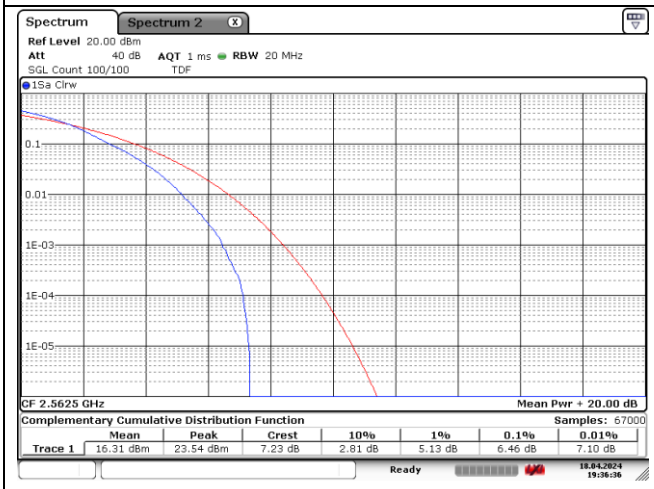
15 ㎒ Low Channel - CP-OFDM 256QAM



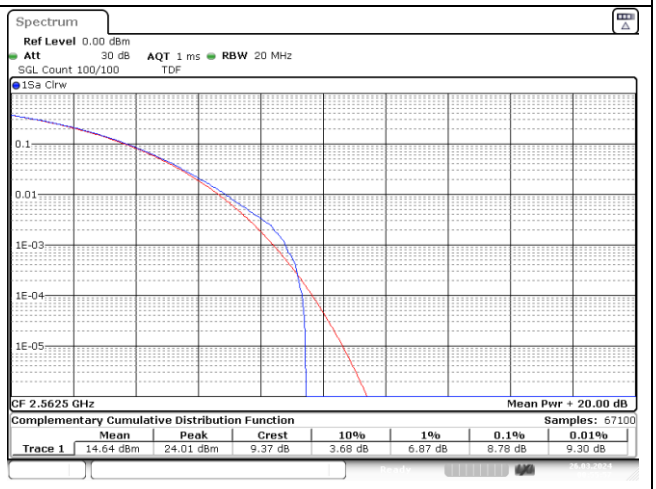
15 ㎒ Middle Channel - DFT-S-OFDM 256QAM



15 ㎒ Middle Channel - CP-OFDM 256QAM

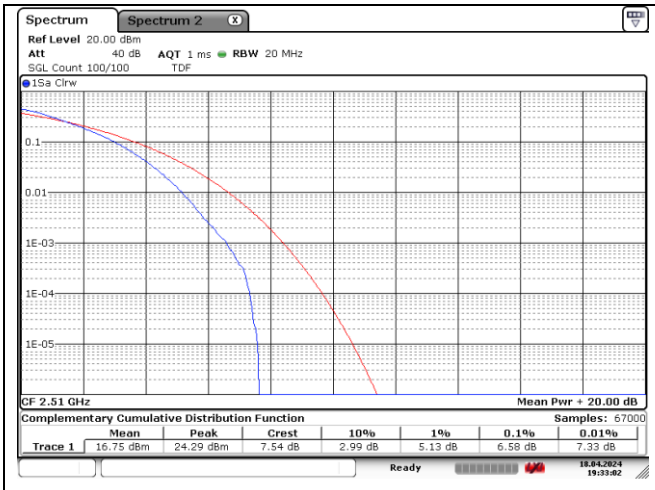


15 ㎒ High Channel - DFT-S-OFDM 256QAM

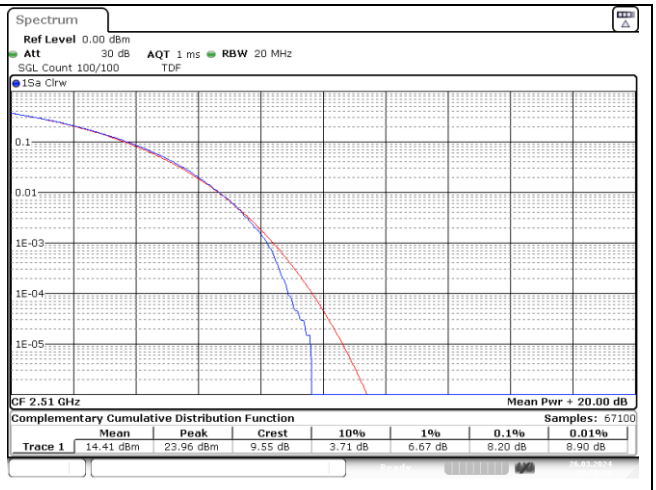


15 ㎒ High Channel - CP-OFDM 256QAM

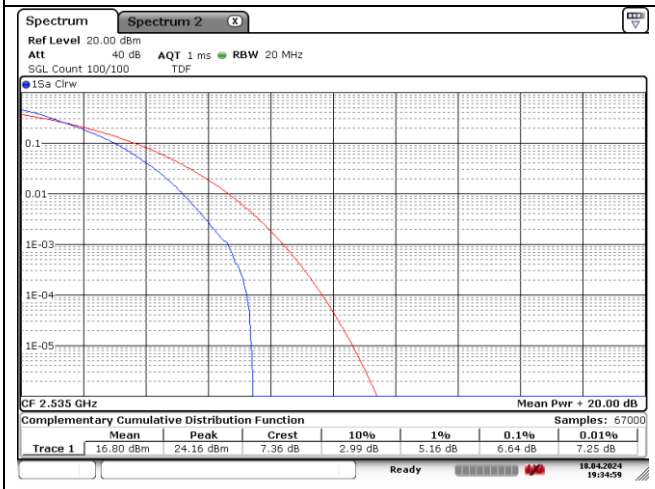
NR band 7



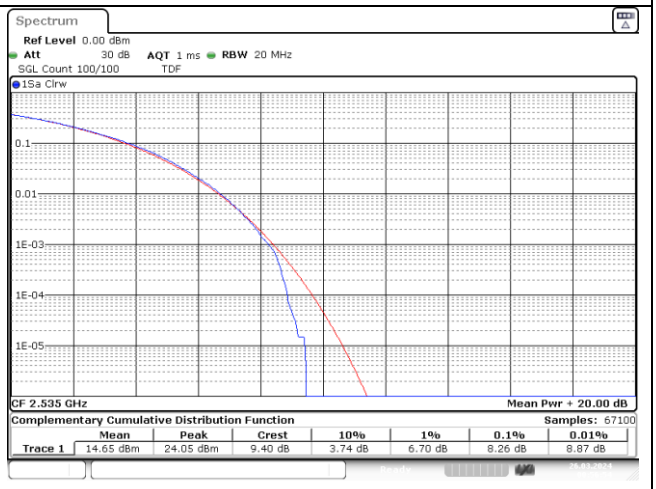
20 ㎒ Low Channel - DFT-S-OFDM 256QAM



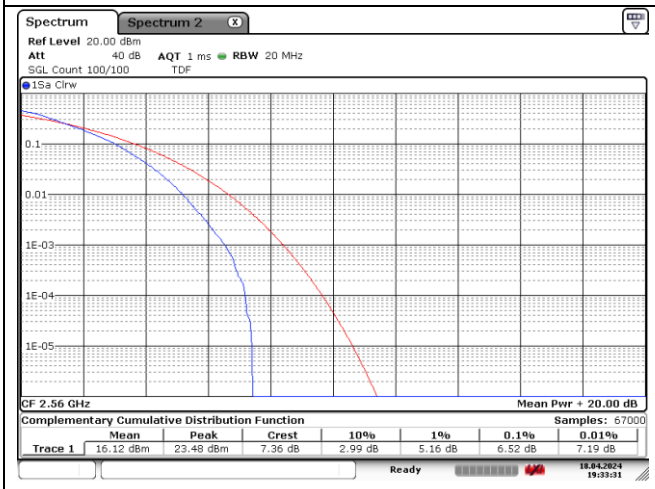
20 ㎒ Low Channel - CP-OFDM 256QAM



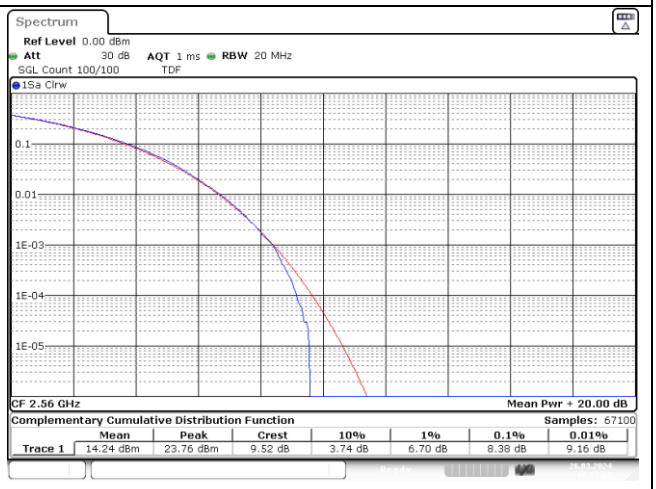
20 ㎒ Middle Channel - DFT-S-OFDM 256QAM



20 ㎒ Middle Channel - CP-OFDM 256QAM

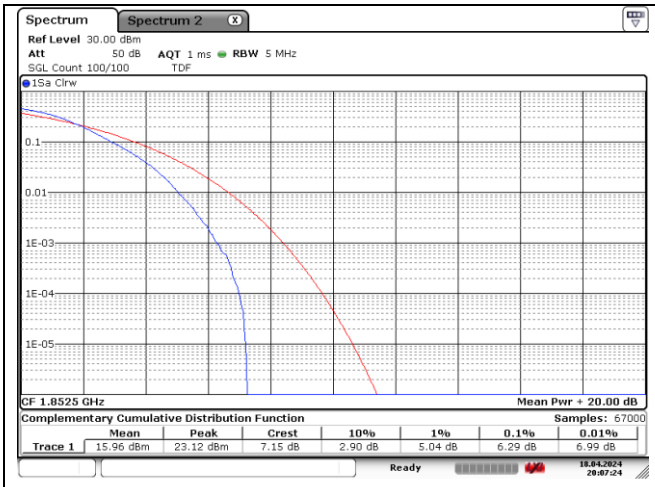


20 ㎒ High Channel - DFT-S-OFDM 256QAM

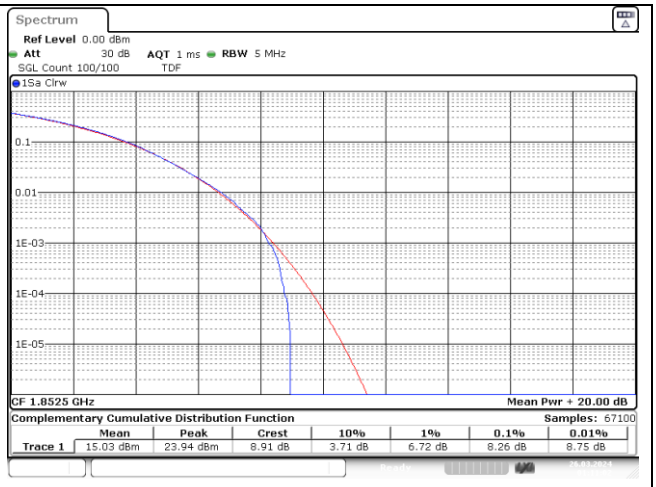


20 ㎒ High Channel - CP-OFDM 256QAM

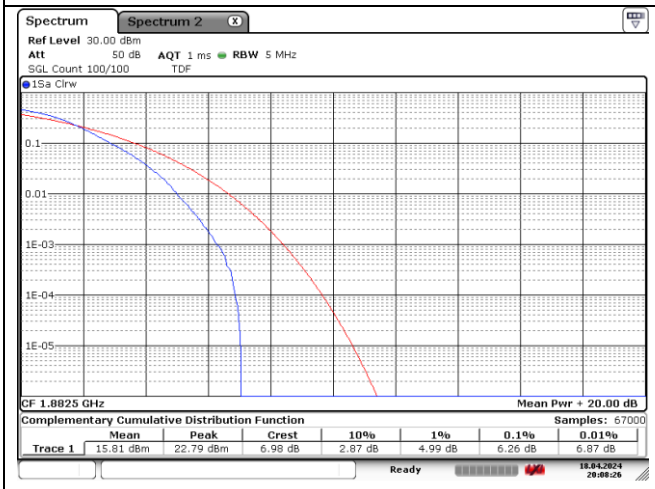
NR band 25/2



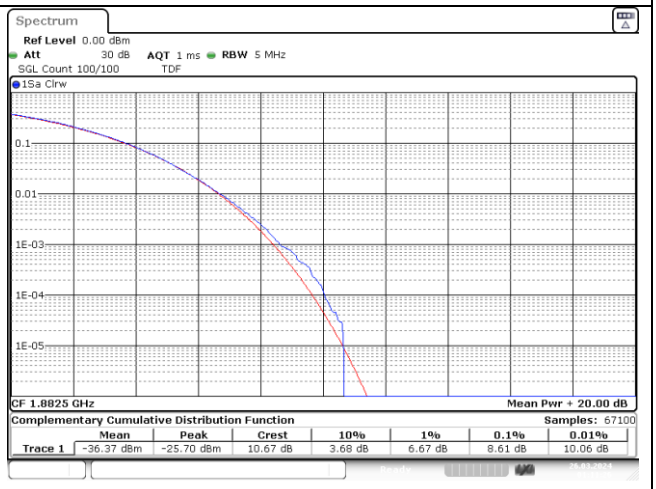
5 ㎒ Low Channel - DFT-S-OFDM 256QAM



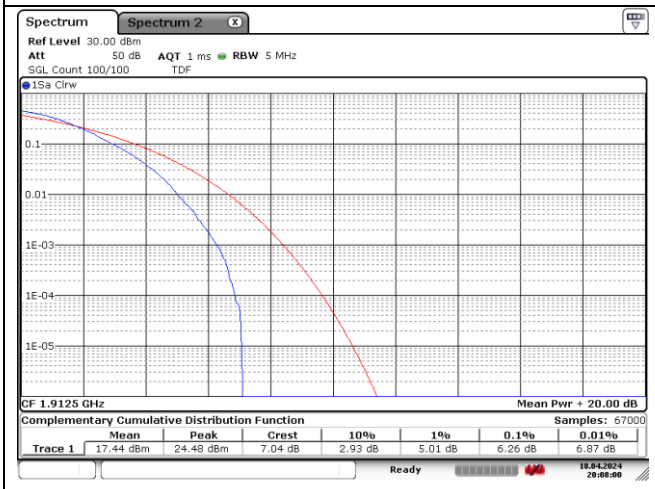
5 ㎒ Low Channel - CP-OFDM 256QAM



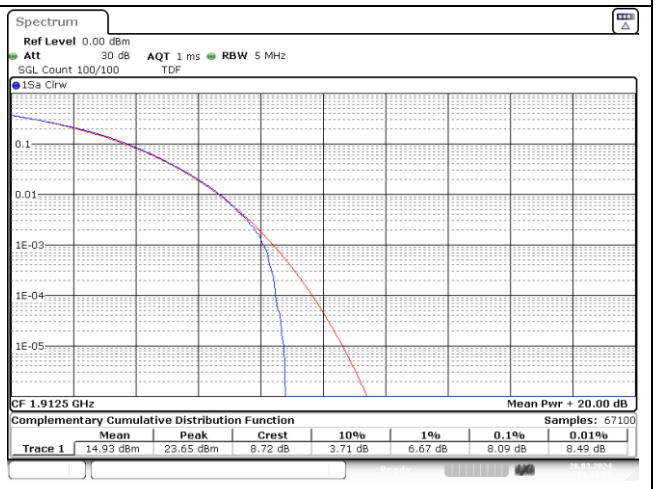
5 ㎒ Middle Channel - DFT-S-OFDM 256QAM



5 ㎒ Middle Channel - CP-OFDM 256QAM

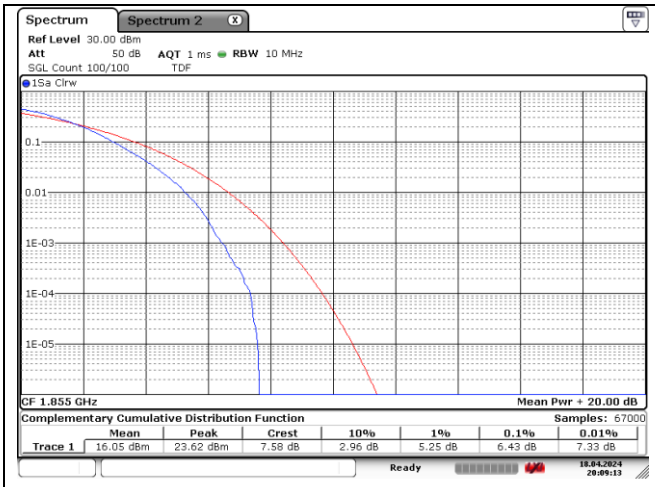


5 ㎒ High Channel - DFT-S-OFDM 256QAM

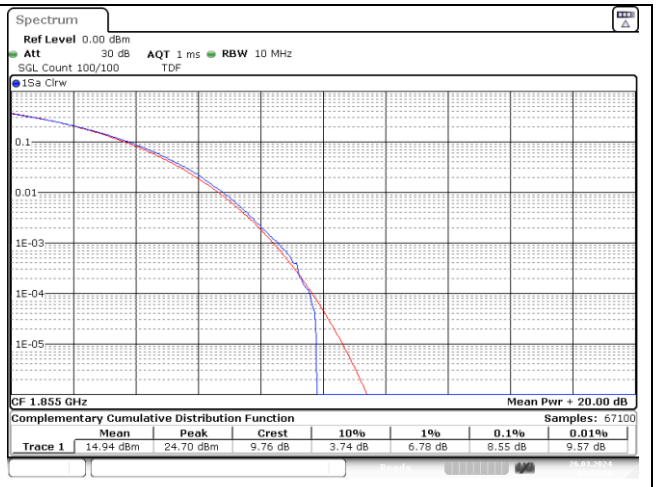


5 ㎒ High Channel - CP-OFDM 256QAM

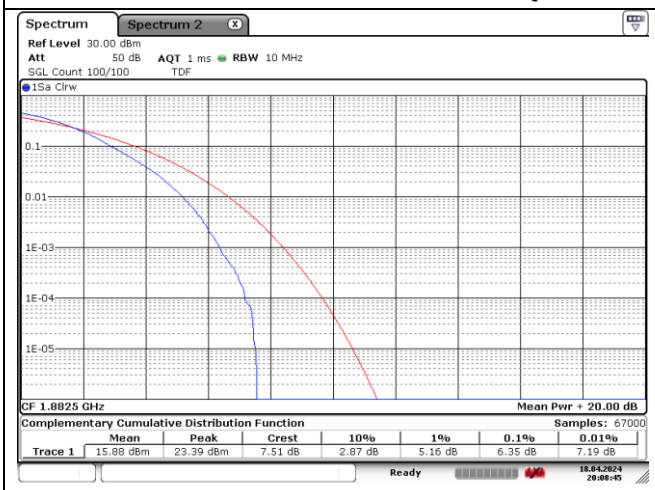
NR band 25/2



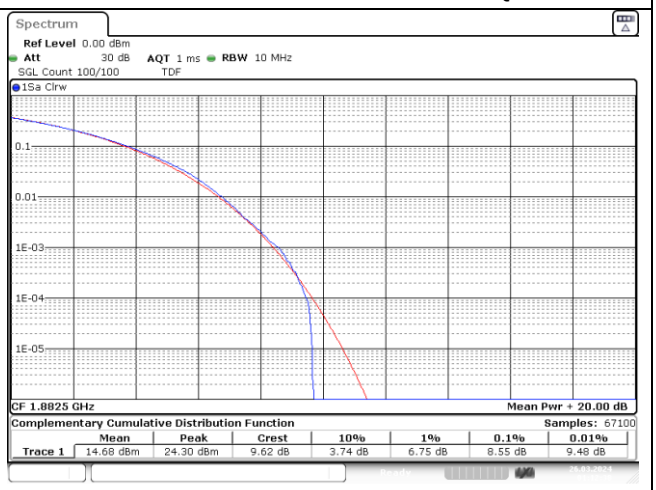
10 ㎒ Low Channel - DFT-S-OFDM 256QAM



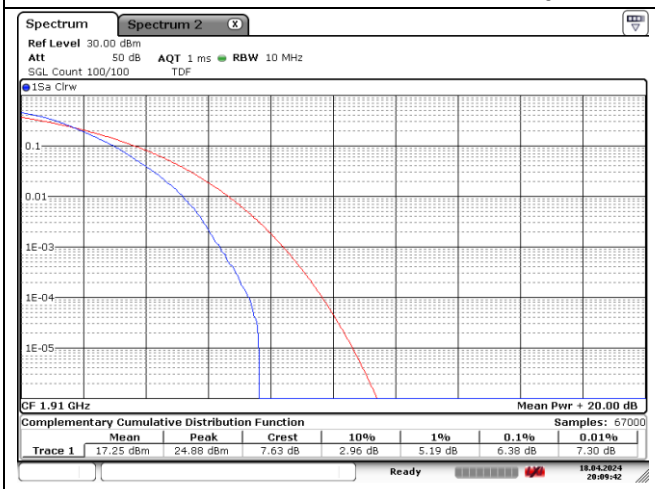
10 ㎒ Low Channel - CP-OFDM 256QAM



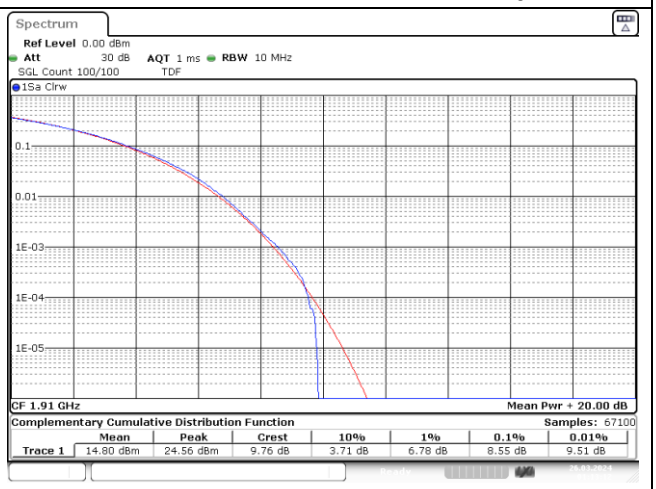
10 ㎒ Middle Channel - DFT-S-OFDM 256QAM



10 ㎒ Middle Channel - CP-OFDM 256QAM

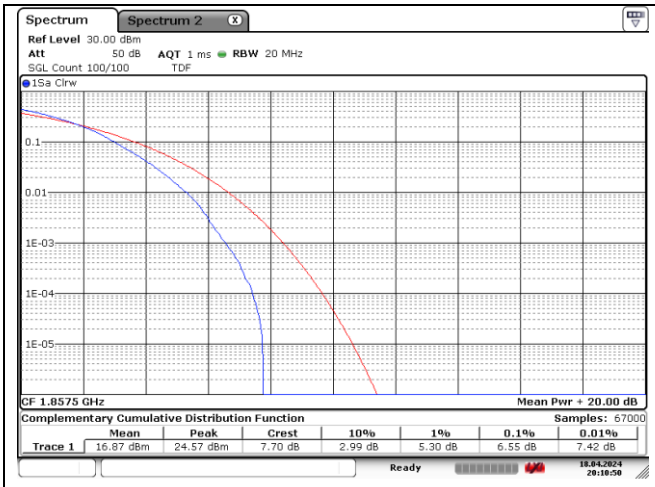


10 ㎒ High Channel - DFT-S-OFDM 256QAM

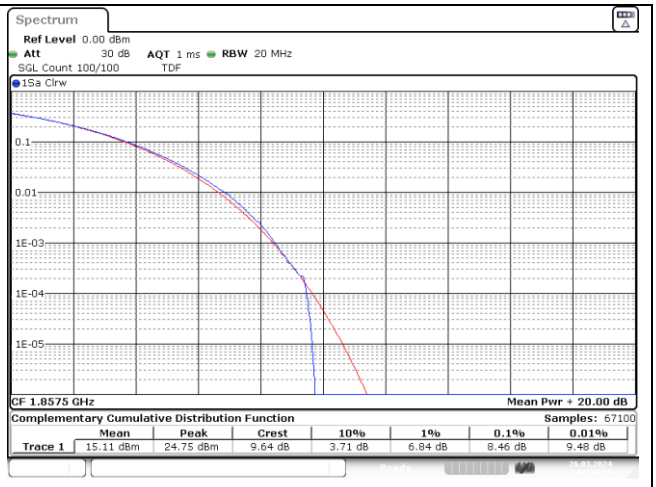


10 ㎒ High Channel - CP-OFDM 256QAM

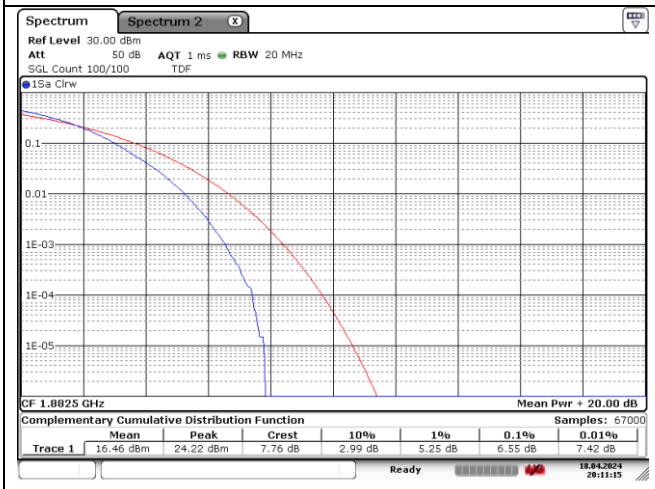
NR band 25/2



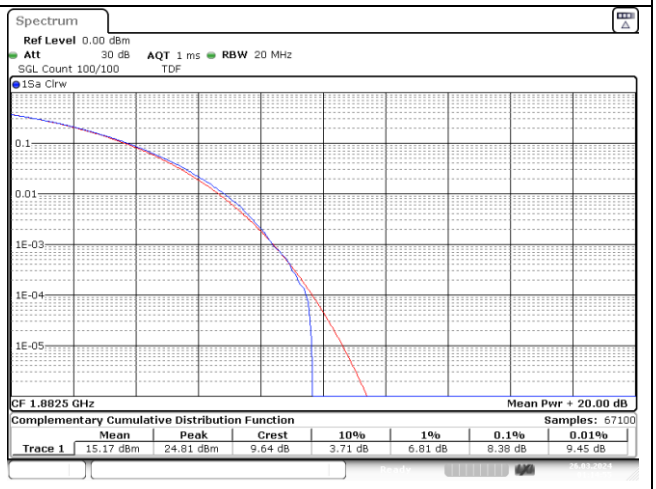
15 ㎒ Low Channel - DFT-S-OFDM 256QAM



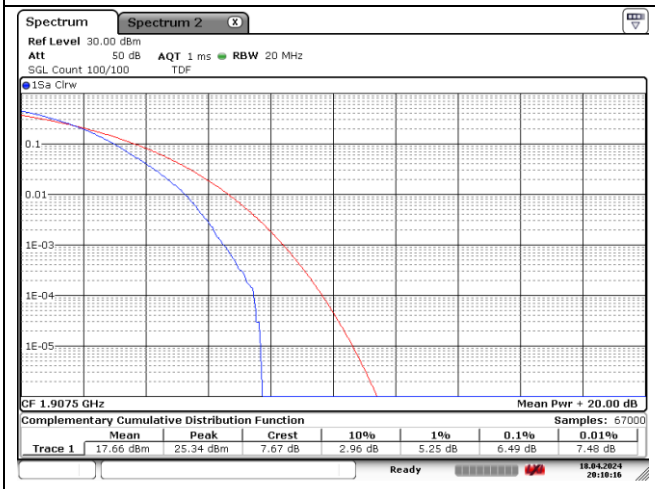
15 ㎒ Low Channel - CP-OFDM 256QAM



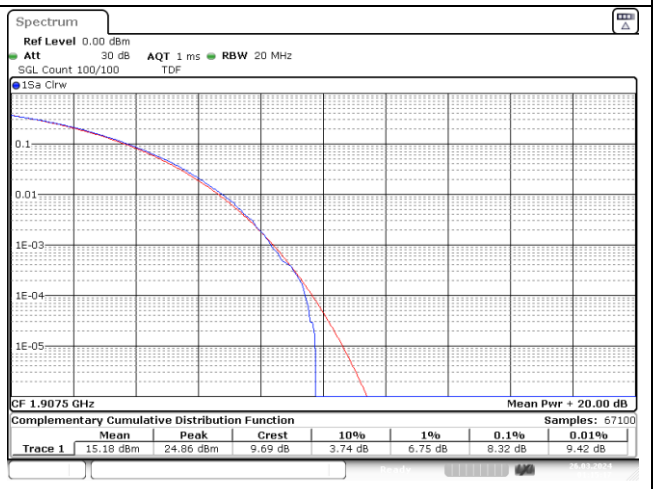
15 ㎒ Middle Channel - DFT-S-OFDM 256QAM



15 ㎒ Middle Channel - CP-OFDM 256QAM



15 ㎒ High Channel - DFT-S-OFDM 256QAM



15 ㎒ High Channel - CP-OFDM 256QAM