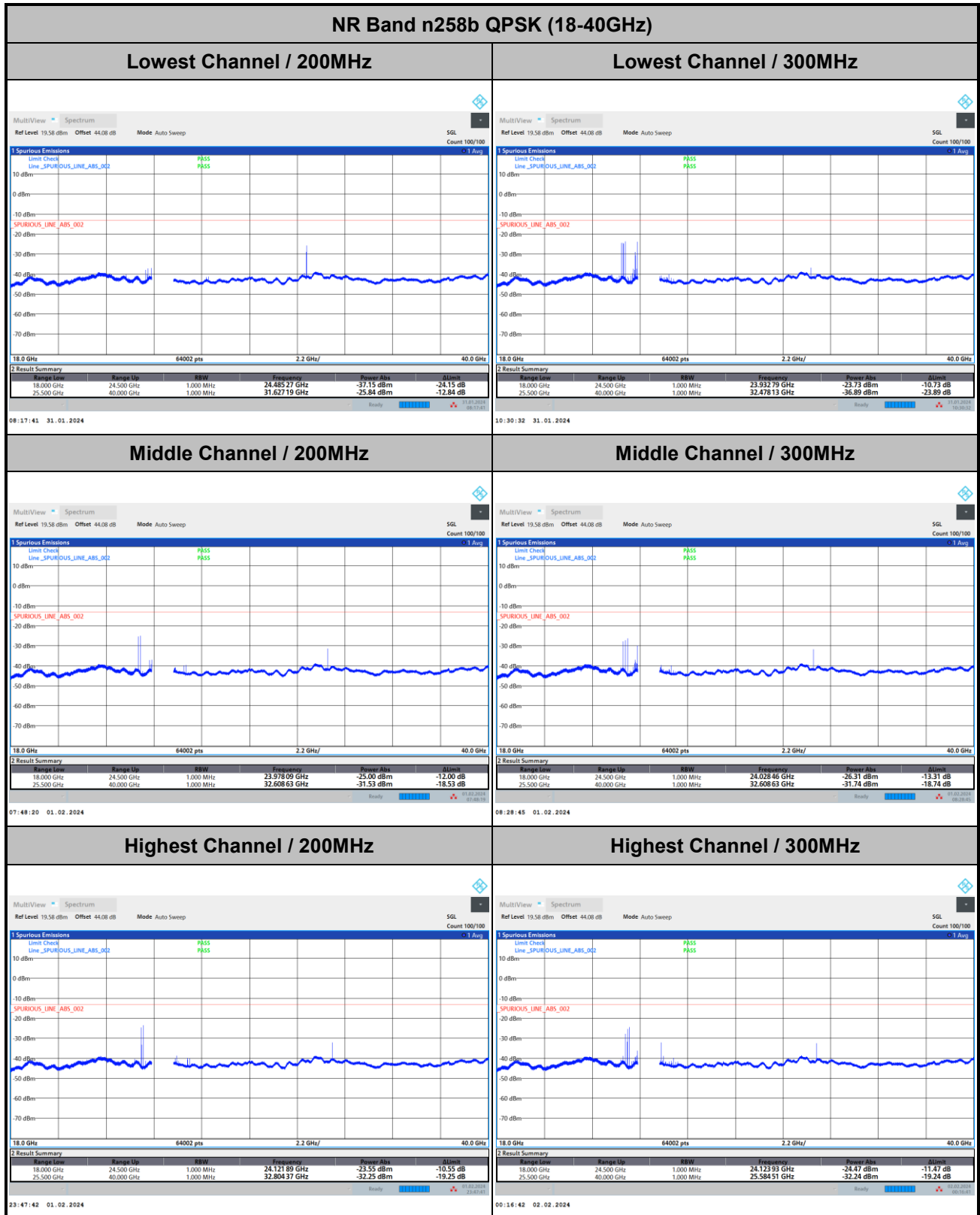




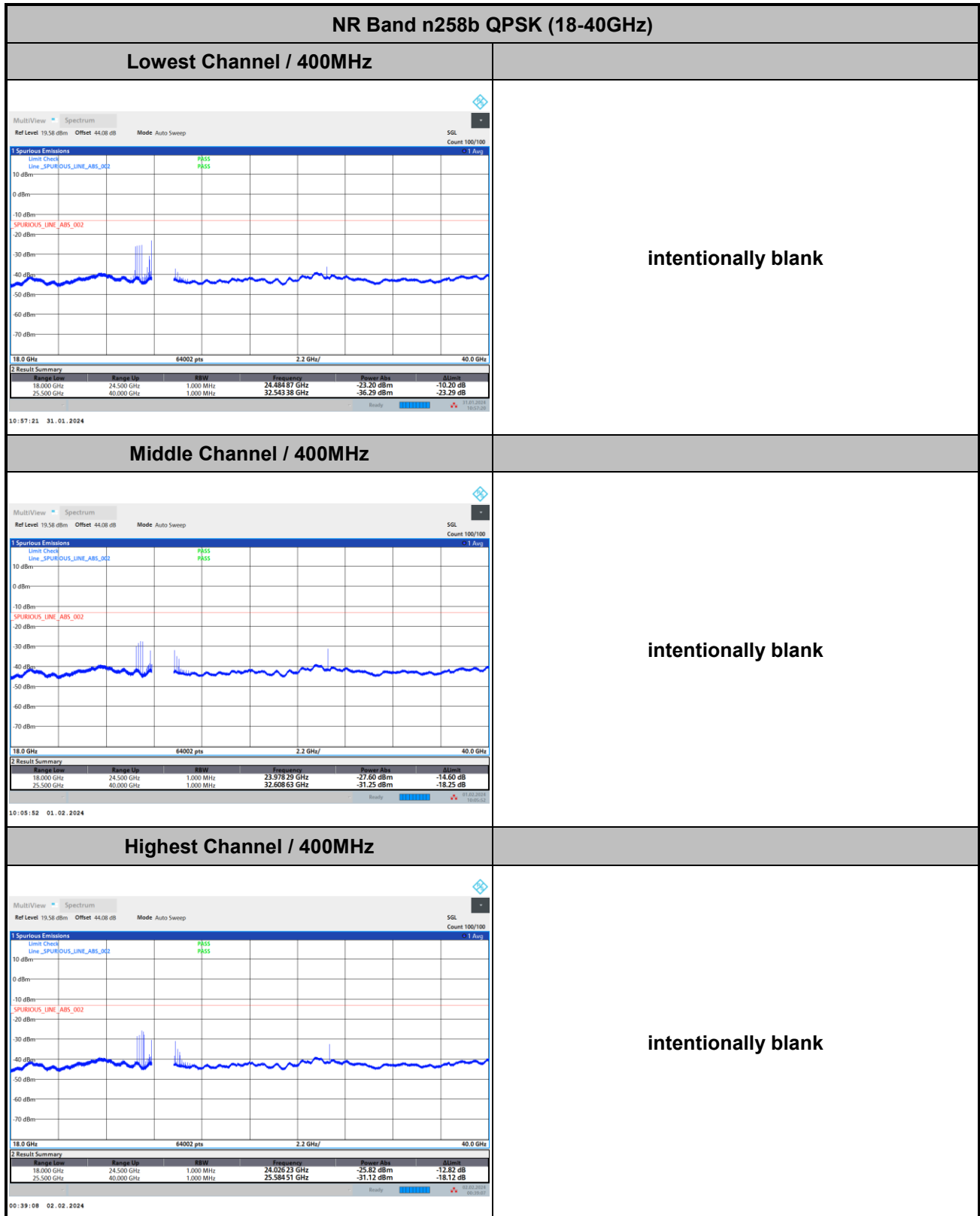
DFT-s-OFDM Module B



Remark: In band and out of band frequencies are omitted.



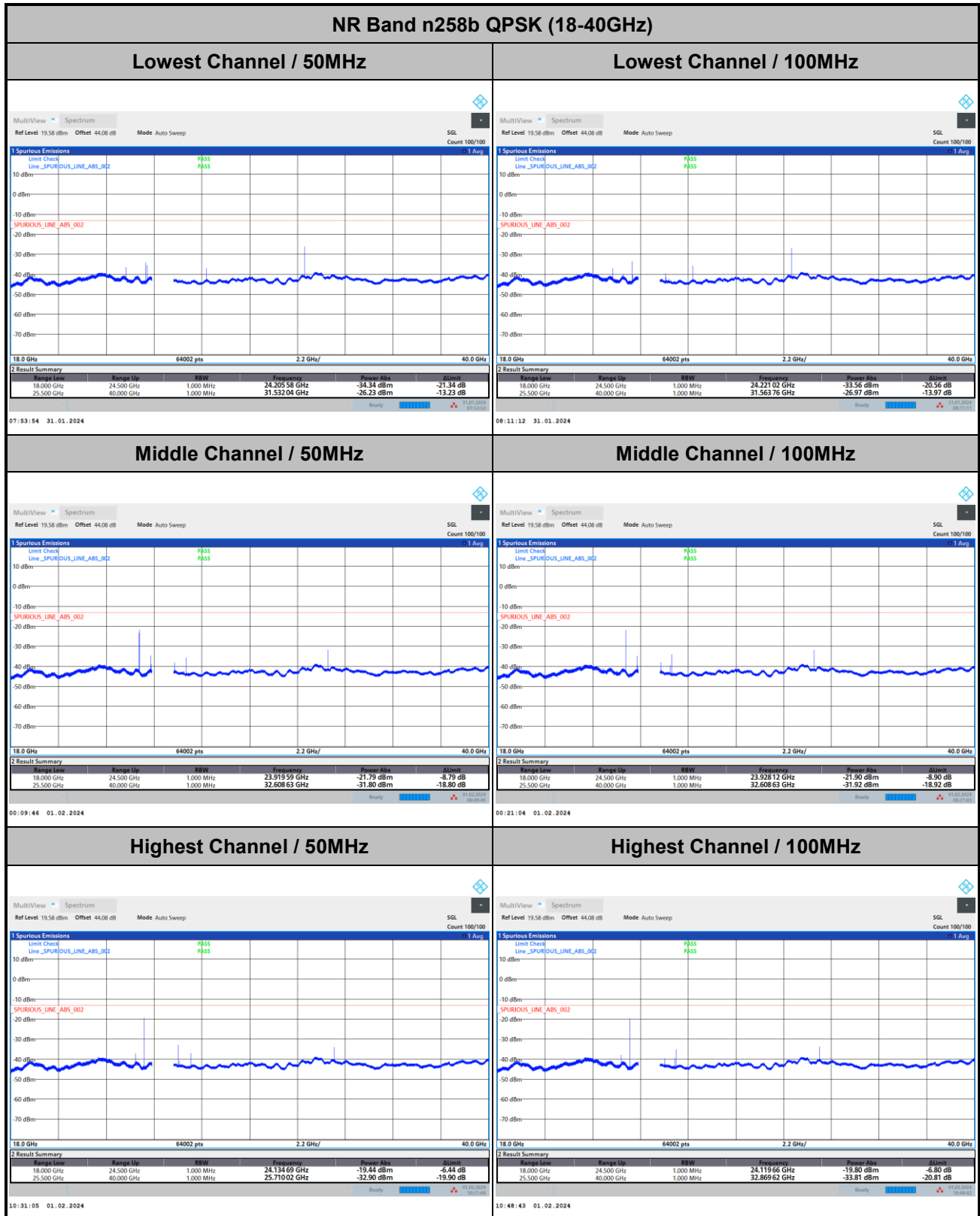
DFT-s-OFDM Module B



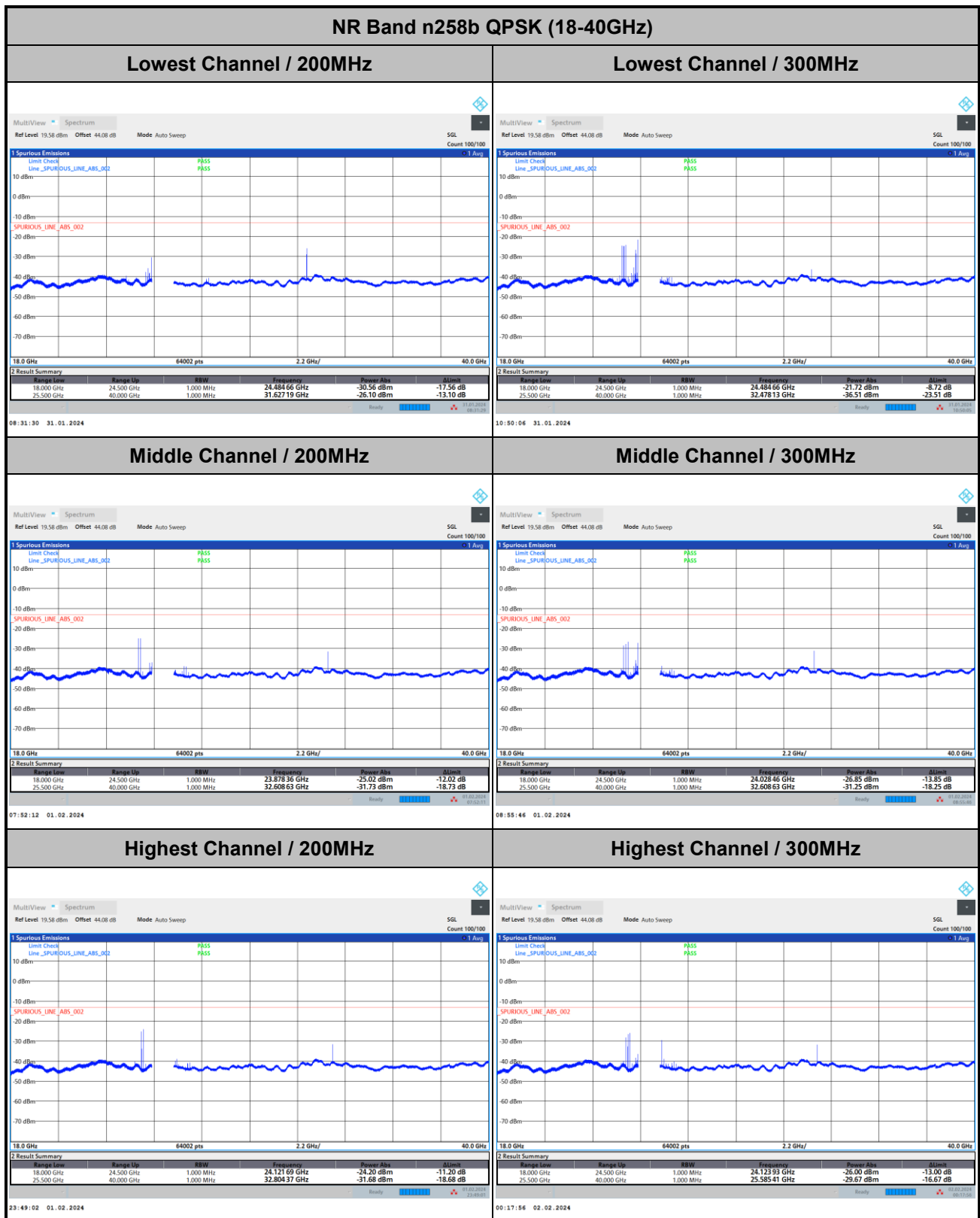
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module B



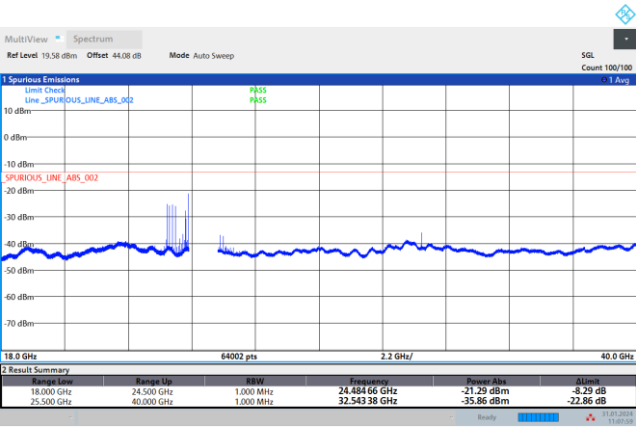
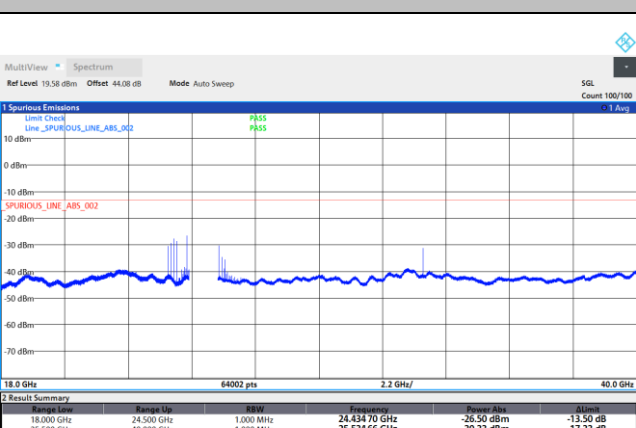
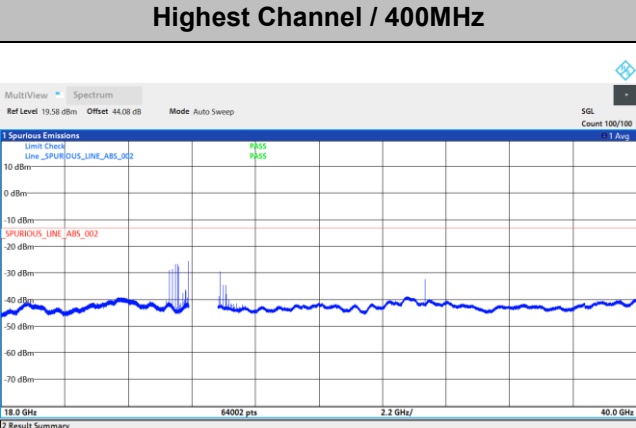
Remark: In band and out of band frequencies are omitted.



TEL : 886-3-327-0868
FAX : 886-3-327-0855

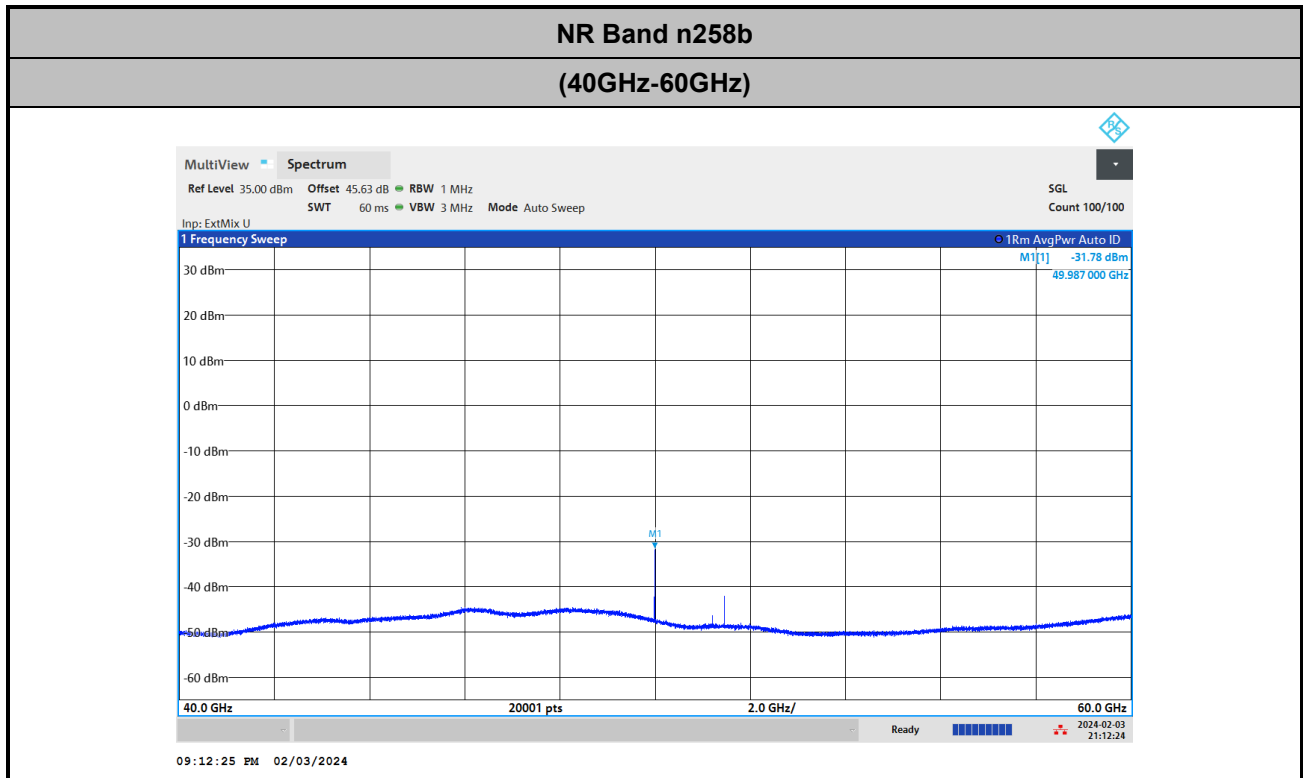


CP-OFDM Module B

NR Band n258b QPSK (18-40GHz)	
Lowest Channel / 400MHz	
 intentionally blank	
Middle Channel / 400MHz	
 intentionally blank	
Highest Channel / 400MHz	
 intentionally blank	

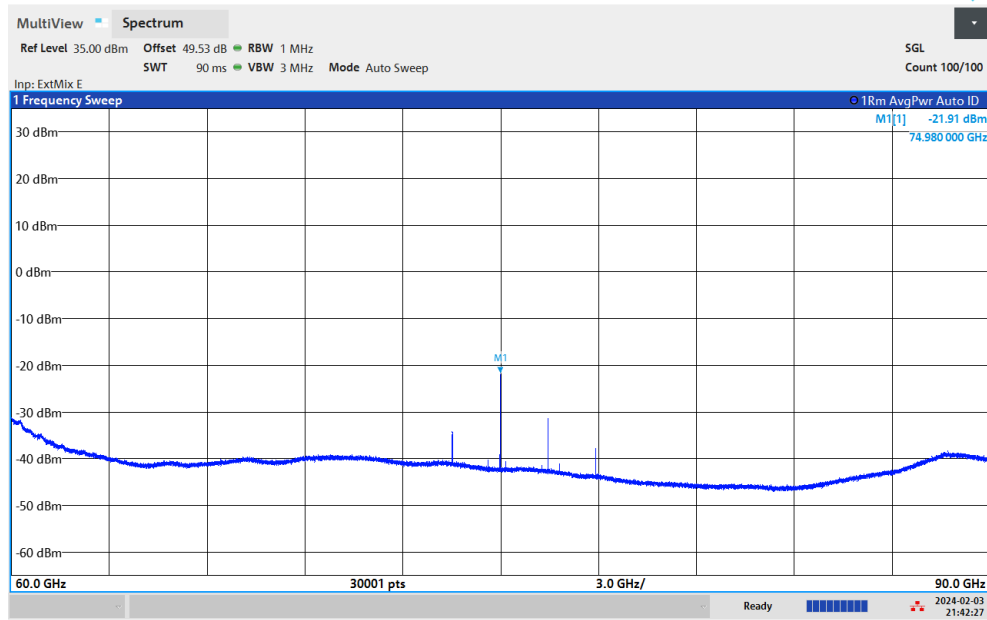
Remark: In band and out of band frequencies are omitted.

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.
Only the noise floor is reported.



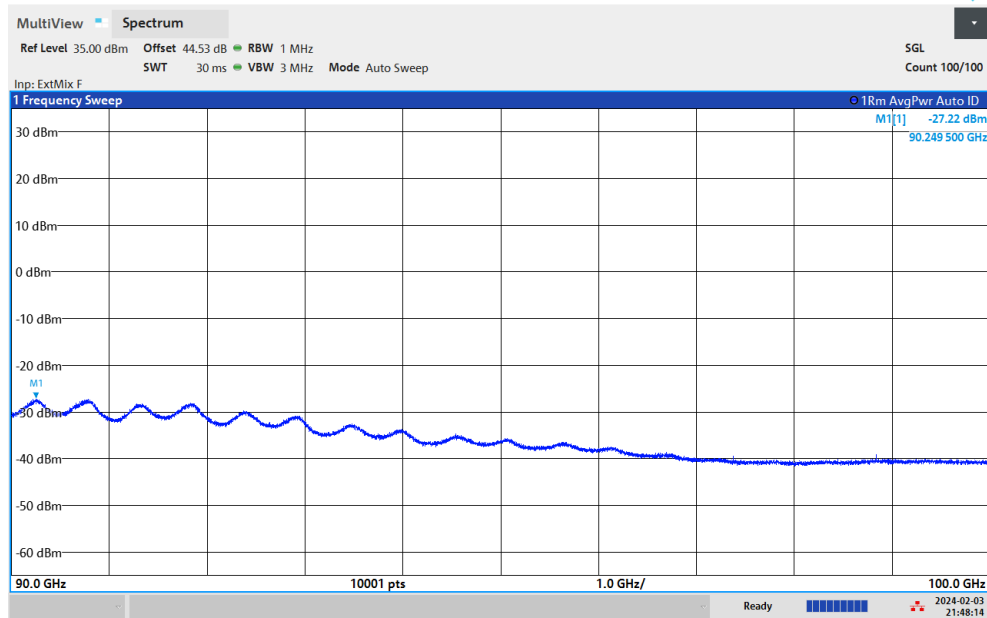
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 43 + 0.43 + 107 + 20\log(1) - 104.8 = 45.63(\text{dB})$$

NR Band n258b
(60GHz-90GHz)


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 = 49.53 \text{ (dB)}$$

NR Band n258b
(90GHz-100GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.92 + 0.43 + 107 + 20\log(0.5) - 104.8 = 44.53 \text{ (dB)} \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n258b / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.9999351	101.900	4.076	Pass
40	Normal Voltage	24.9999471	89.900	3.596	
30	Normal Voltage	24.999964	73.000	2.920	
20(Ref.)	Normal Voltage	25.000037	0.000	0.000	
10	Normal Voltage	25.000032	5.000	0.200	
0	Normal Voltage	25.0001069	-69.900	2.796	
-10	Normal Voltage	25.0001279	-90.900	3.636	
-20	Normal Voltage	25.0001339	-96.900	3.876	
-30	Normal Voltage	25.0001139	-76.900	3.076	
20	Maximum Voltage	25.000023	14.000	0.560	
20	Normal Voltage	25.000024	13.000	0.520	
20	Battery End Point	25.000022	15.000	0.600	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the operation band.

NR Band n260 Module A AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n260 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.18	45.99	45.90	91.08	91.04	91.13	191.21	190.79	191.40
Middle CH	46.22	46.02	46.07	90.85	90.74	90.90	191.10	190.85	191.40
Highest CH	46.01	46.19	45.95	91.15	91.24	91.09	191.60	191.18	191.55

Mode	DFT-s-OFDM Module A NR Band n260 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	290.97	290.16	290.17	389.58	389.29	389.64
Middle CH	290.32	289.80	289.50	389.78	389.24	389.37
Highest CH	291.61	290.42	290.26	391.67	390.68	391.09

Mode	CP-OFDM Module A NR Band n260 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.52	94.45	194.30
Middle CH	46.42	94.12	195.17
Highest CH	46.25	94.43	196.68

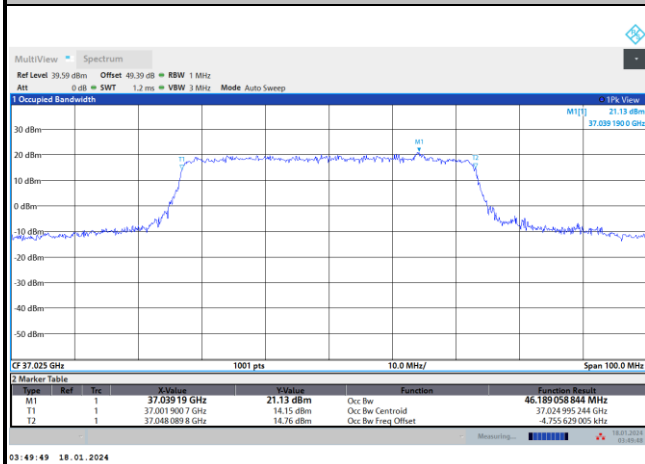
Mode	CP-OFDM Module A NR Band n260 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	294.32	392.84
Middle CH	295.37	395.09
Highest CH	296.85	394.82



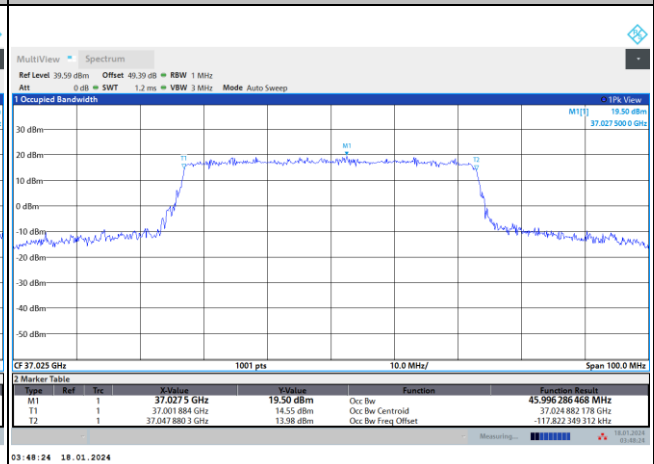
DFT-s-OFDM Module A

NR Band n260

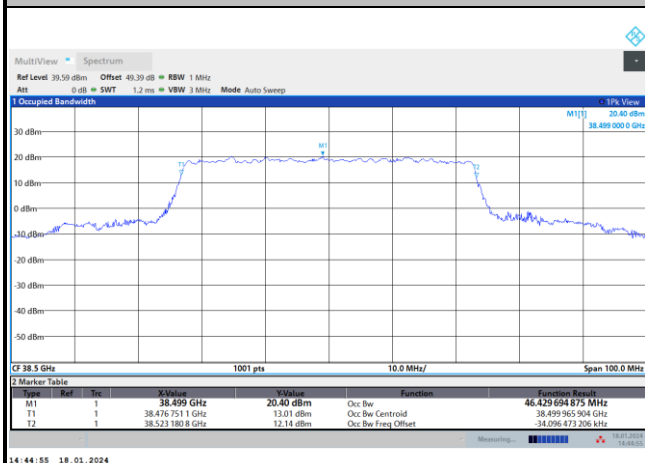
Lowest Channel / 50MHz / QPSK



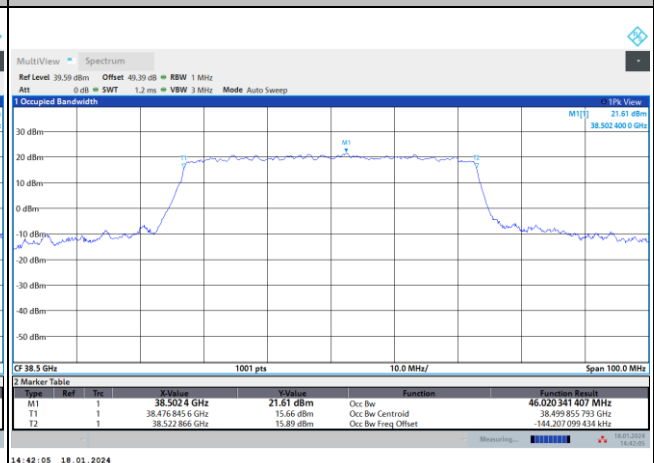
Lowest Channel / 50MHz / 16QAM



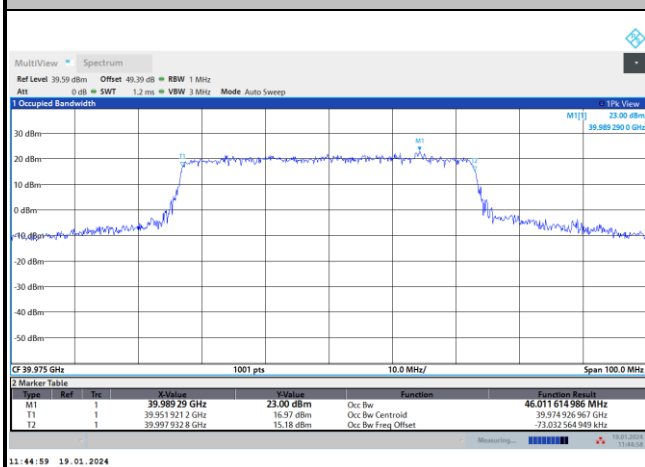
Middle Channel / 50MHz / QPSK



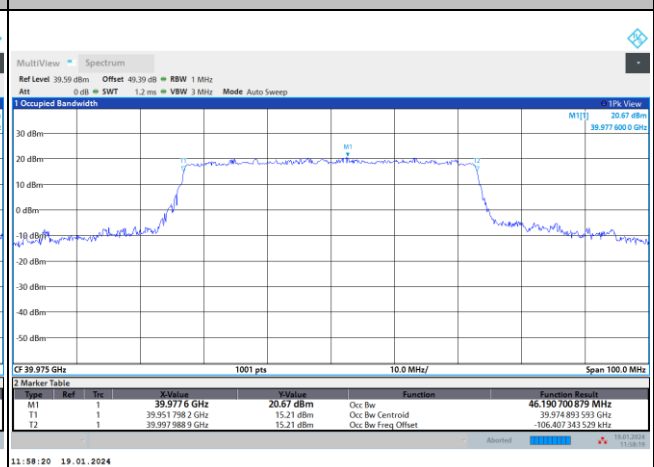
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

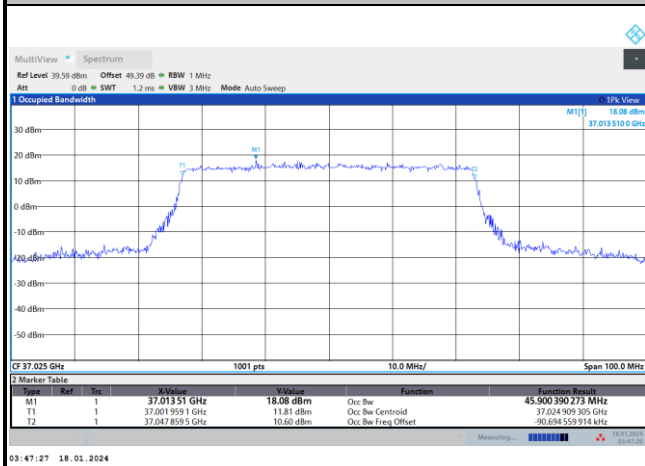




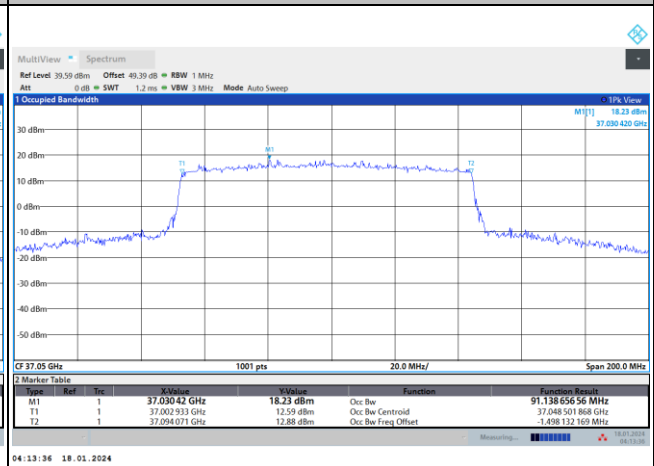
DFT-s-OFDM Module A

NR Band n260

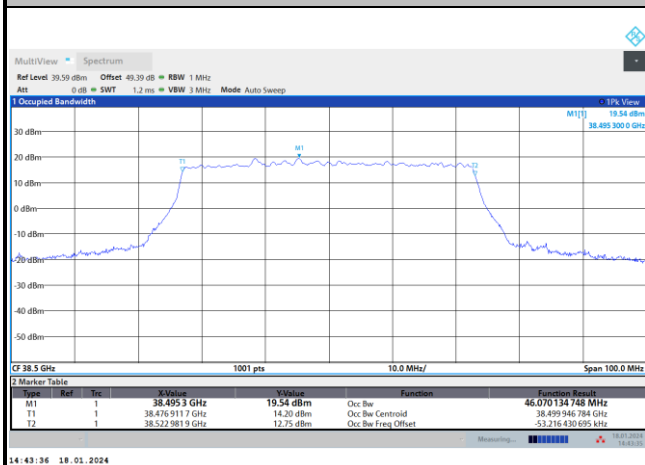
Lowest Channel / 50MHz / 64QAM



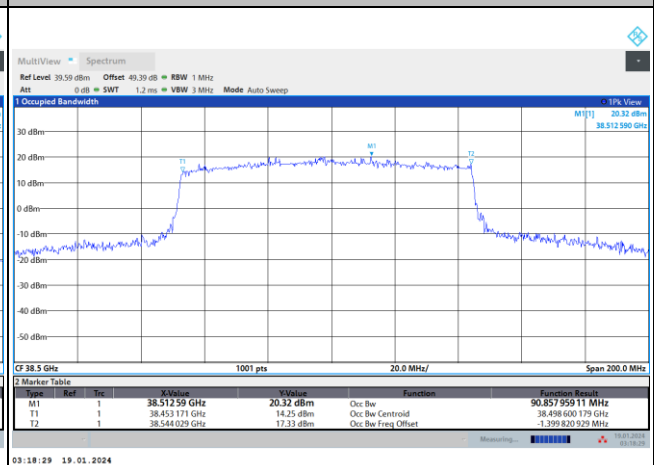
Lowest Channel / 100MHz / QPSK



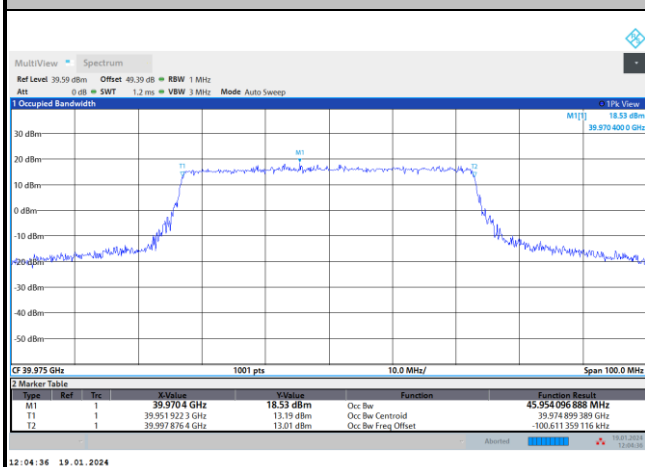
Middle Channel / 50MHz / 64QAM



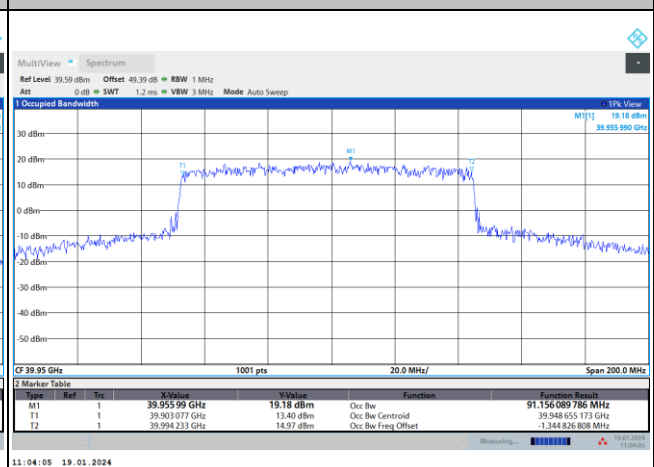
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

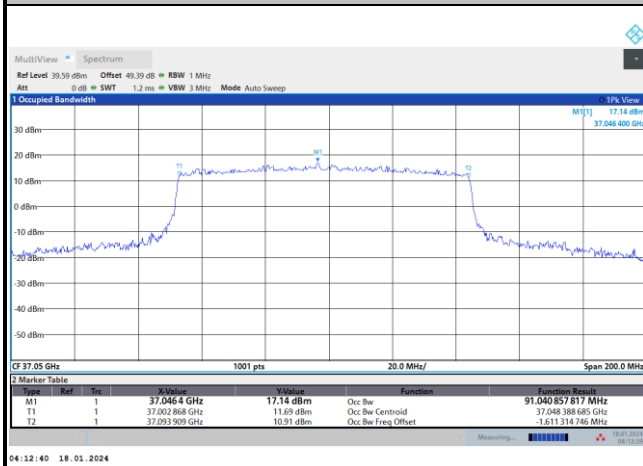




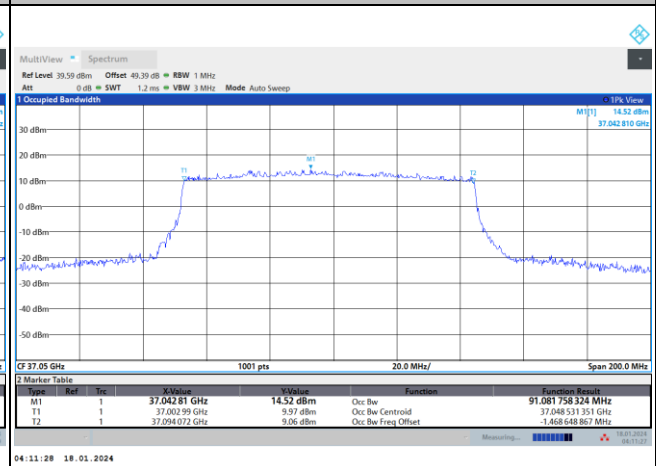
DFT-s-OFDM Module A

NR Band n260

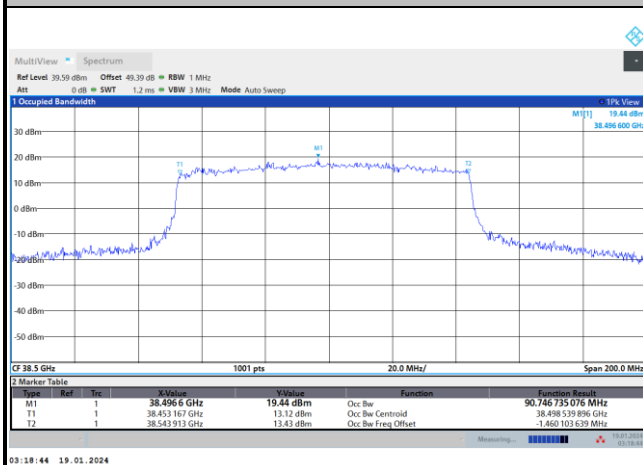
Lowest Channel / 100MHz / 16QAM



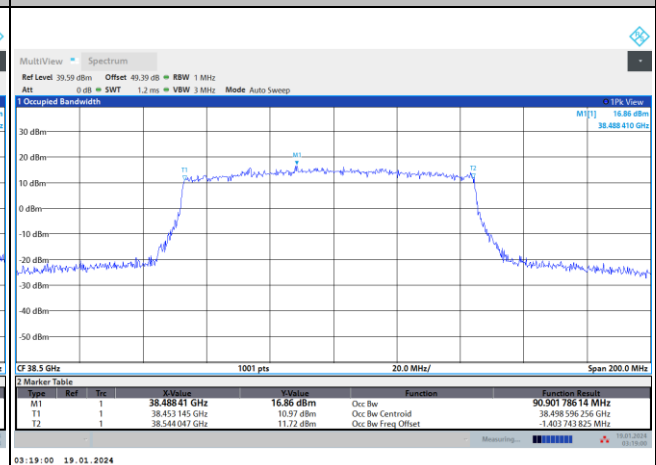
Lowest Channel / 100MHz / 64QAM



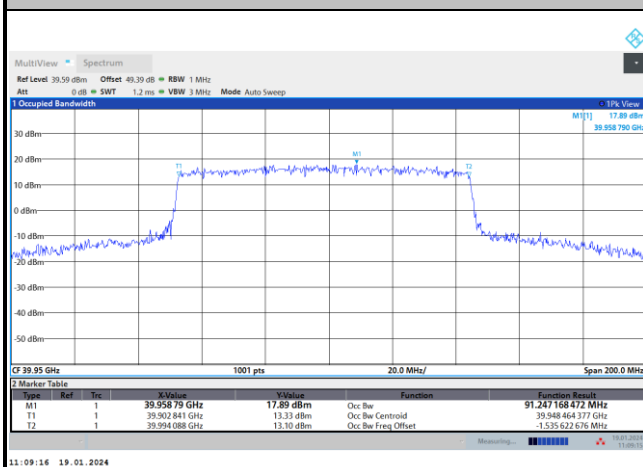
Middle Channel / 100MHz / 16QAM



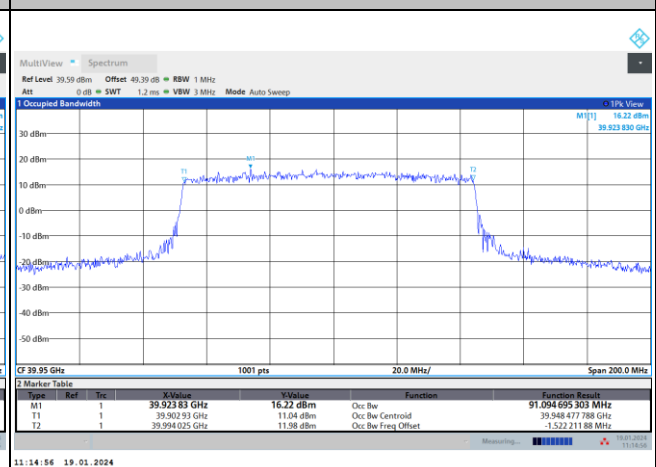
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

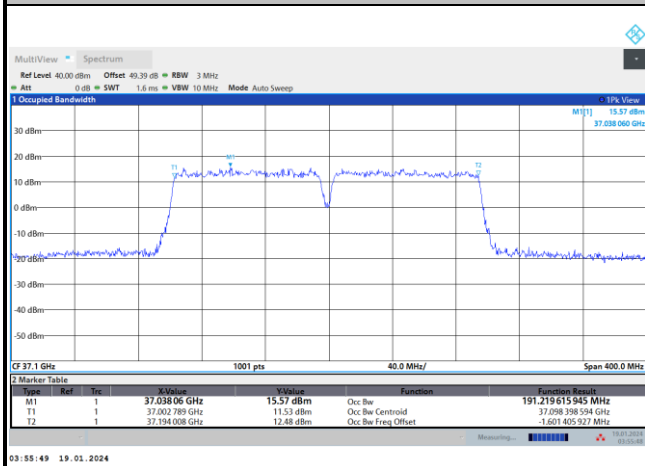




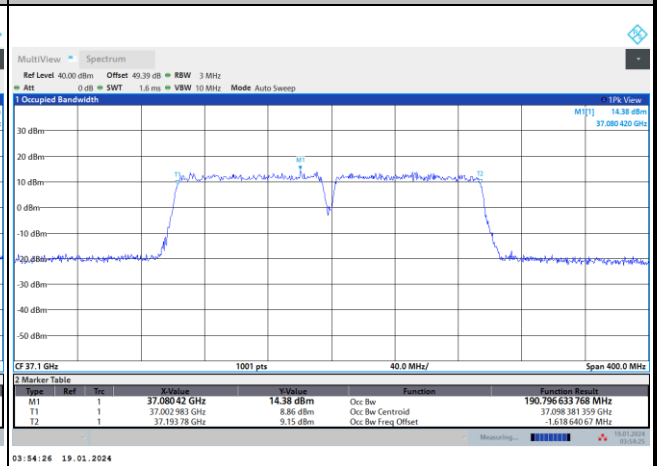
DFT-s-OFDM Module A

NR Band n260

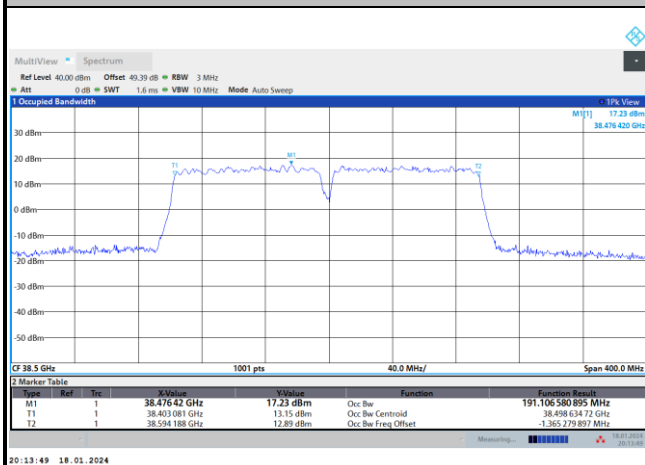
Lowest Channel / 200MHz / QPSK



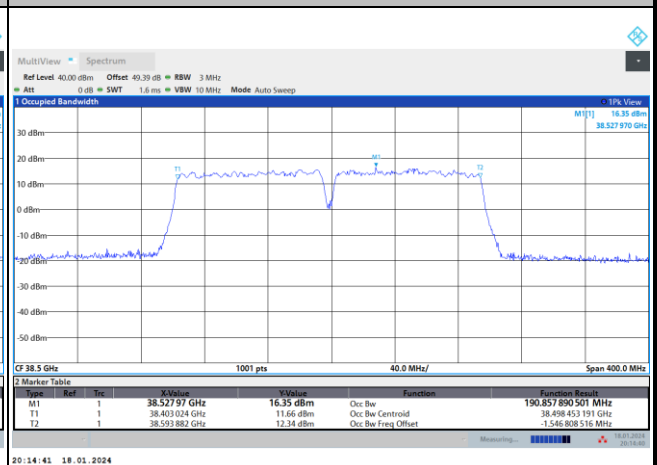
Lowest Channel / 200MHz / 16QAM



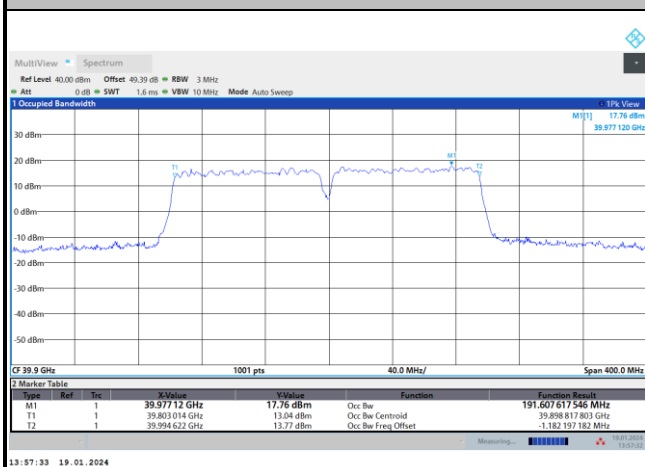
Middle Channel / 200MHz / QPSK



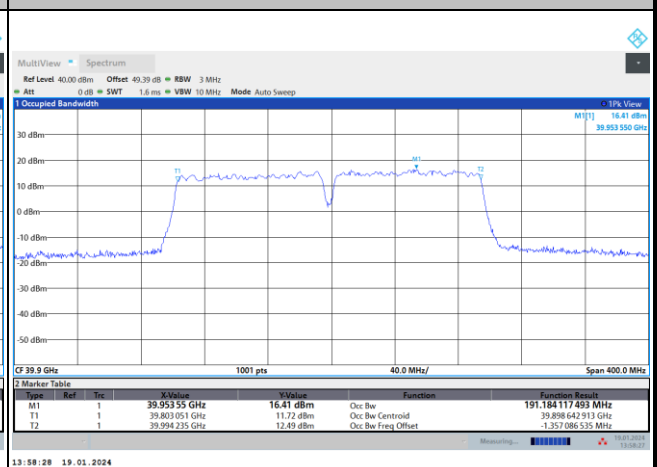
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

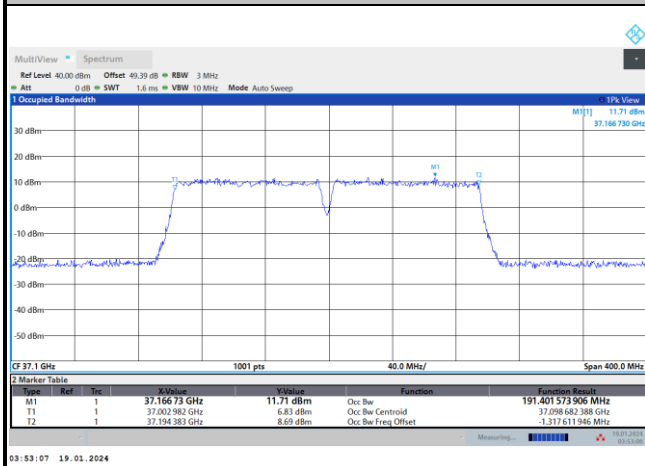




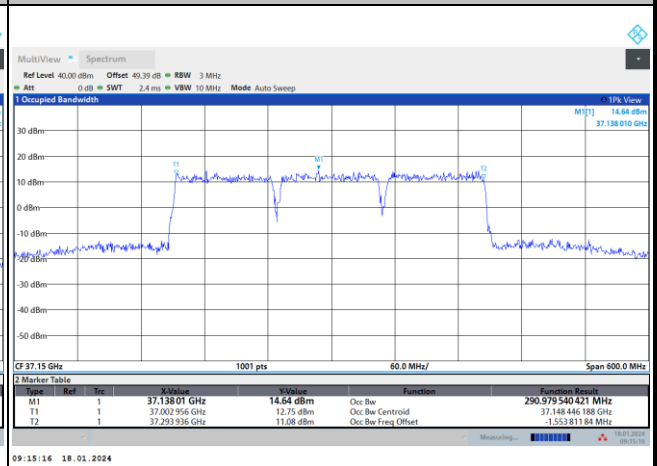
DFT-s-OFDM Module A

NR Band n260

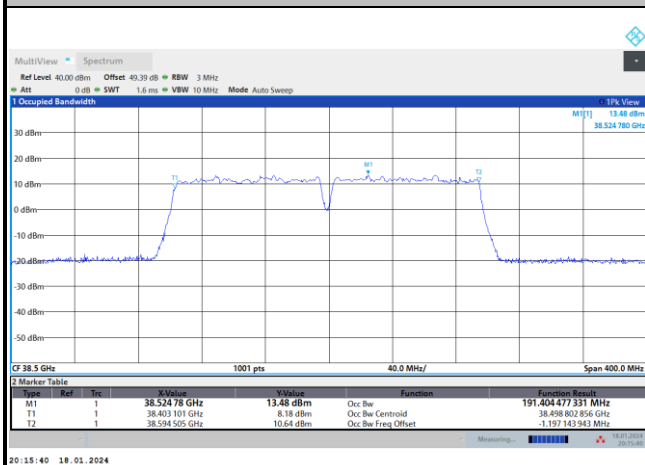
Lowest Channel / 200MHz / 64QAM



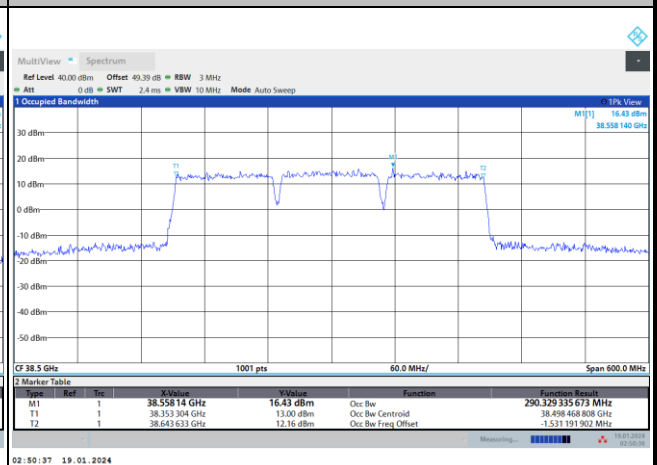
Lowest Channel / 300MHz / QPSK



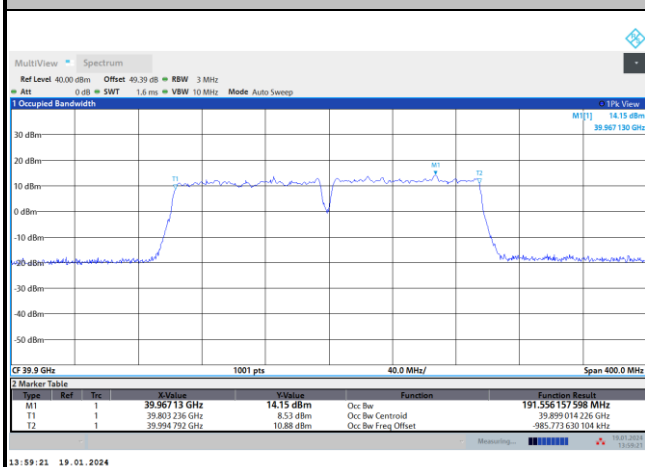
Middle Channel / 200MHz / 64QAM



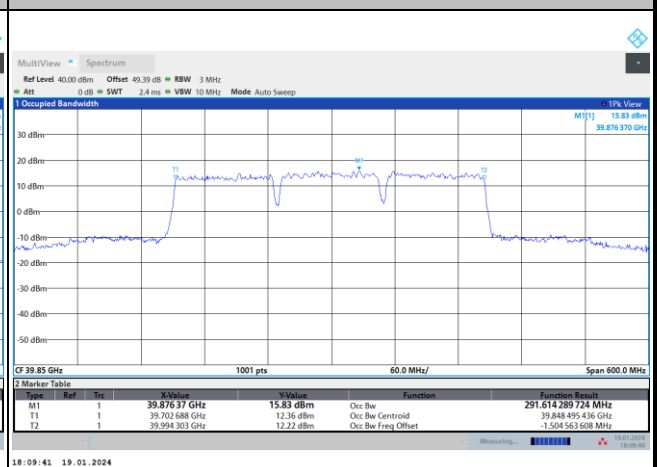
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

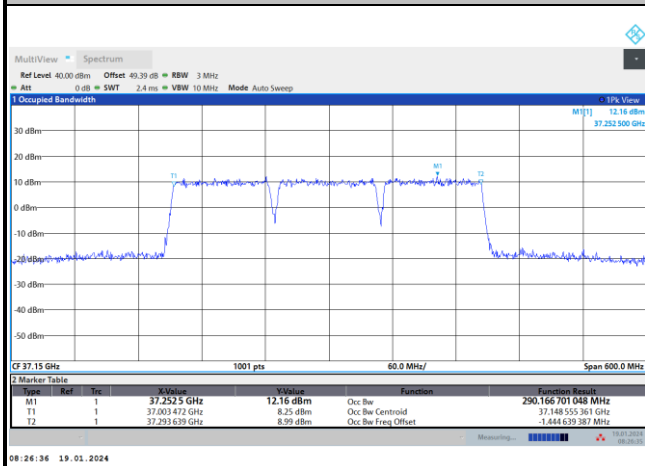




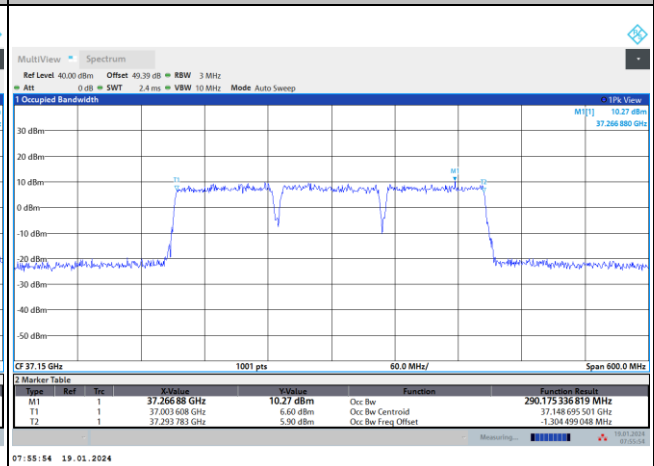
DFT-s-OFDM Module A

NR Band n260

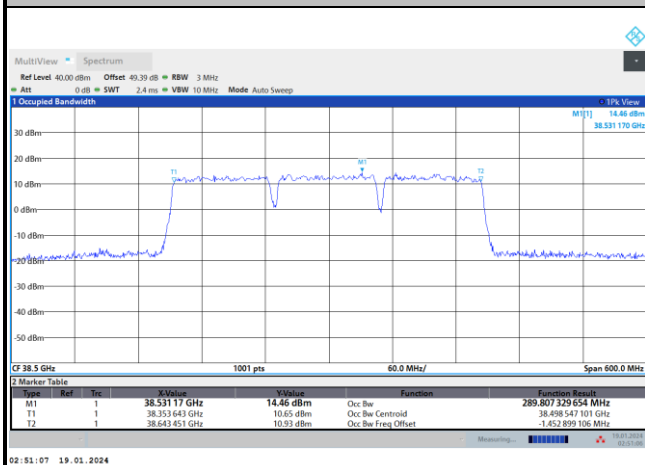
Lowest Channel / 300MHz / 16QAM



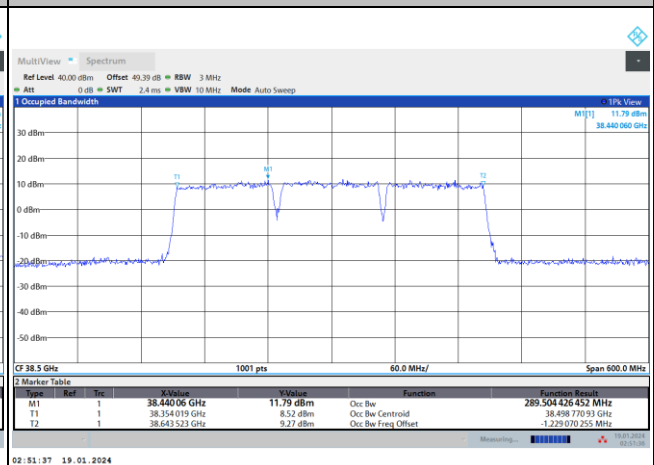
Lowest Channel / 300MHz / 64QAM



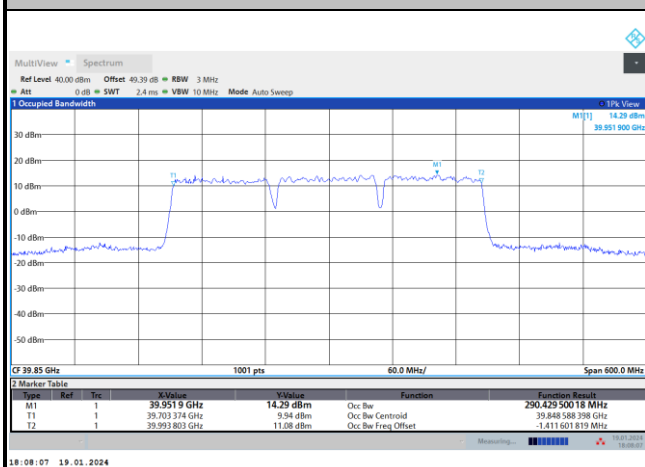
Middle Channel / 300MHz / 16QAM



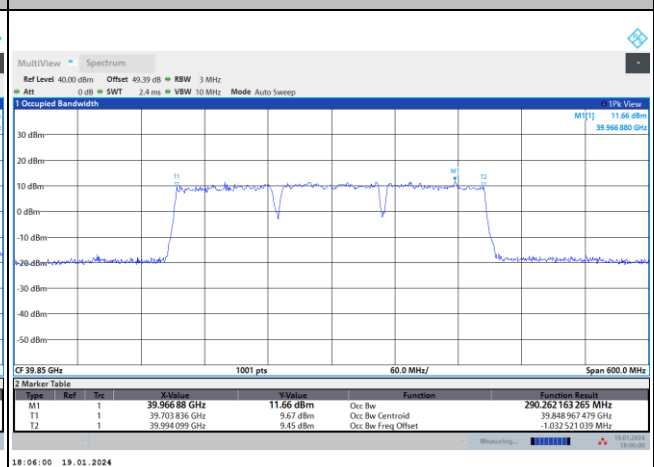
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM

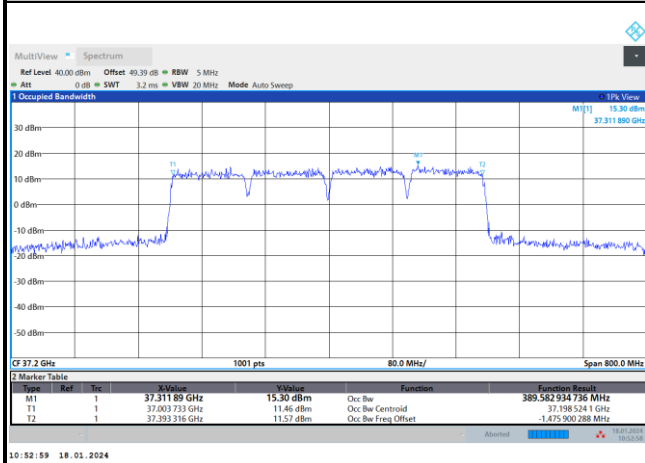




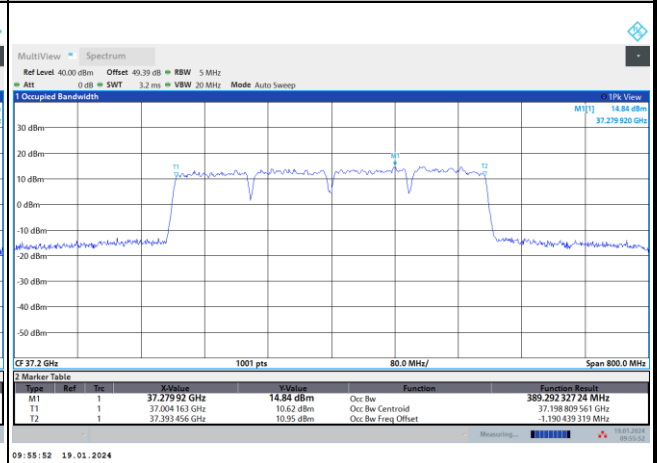
DFT-s-OFDM Module A

NR Band n260

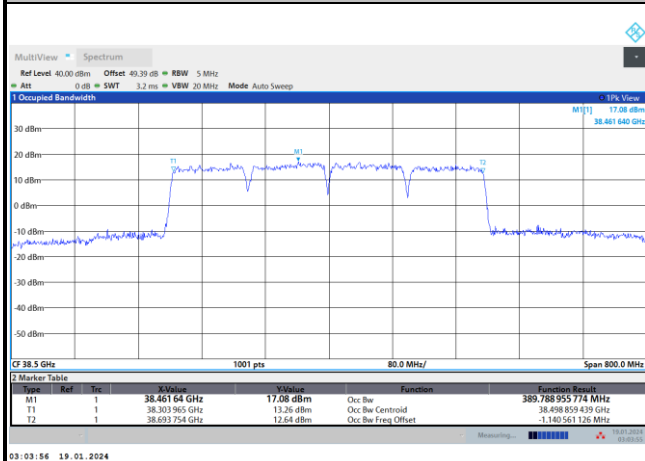
Lowest Channel / 400MHz / QPSK



Lowest Channel / 400MHz / 16QAM



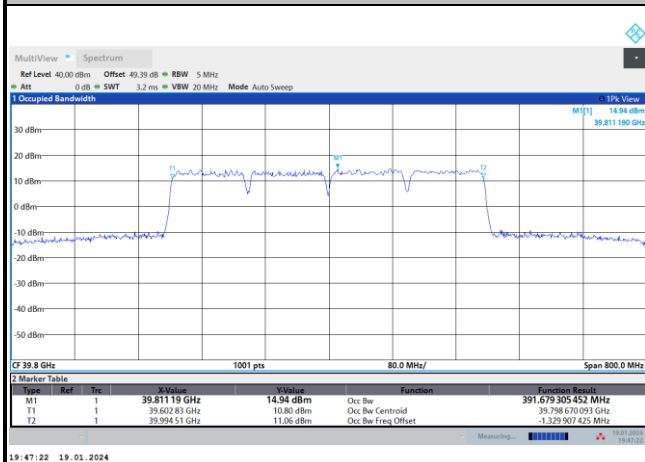
Middle Channel / 400MHz / QPSK



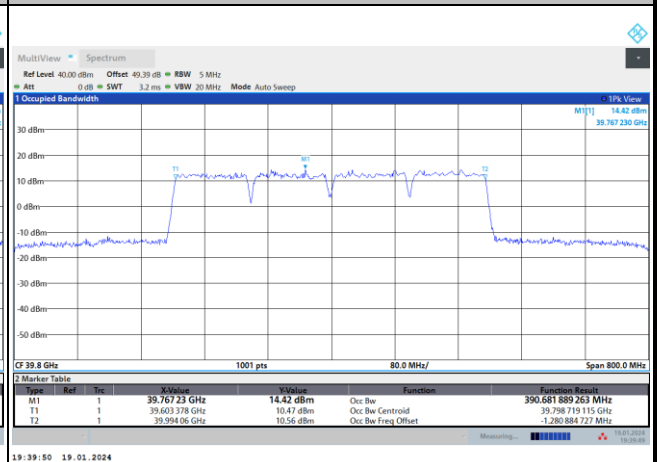
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK

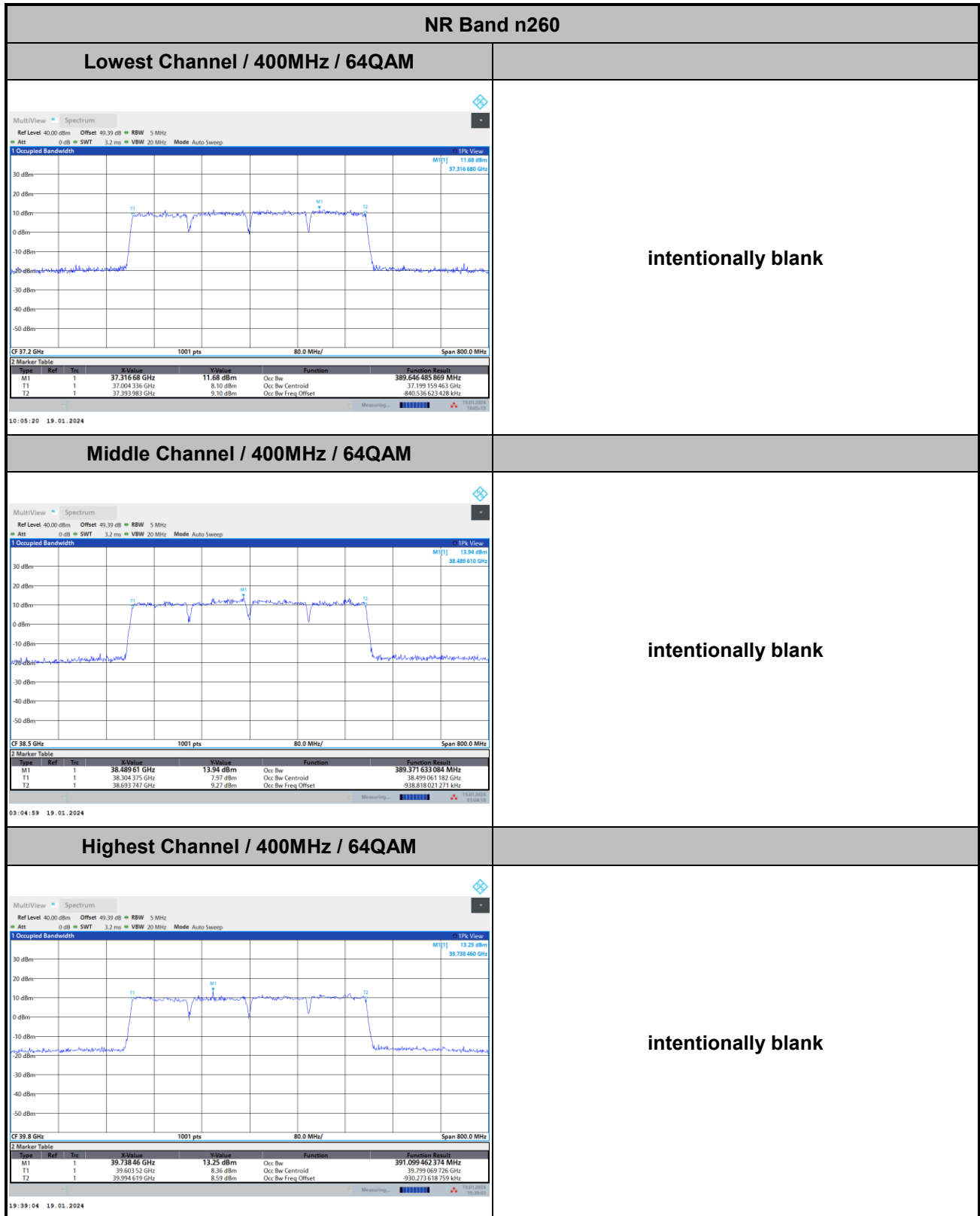


Highest Channel / 400MHz / 16QAM





DFT-s-OFDM Module A

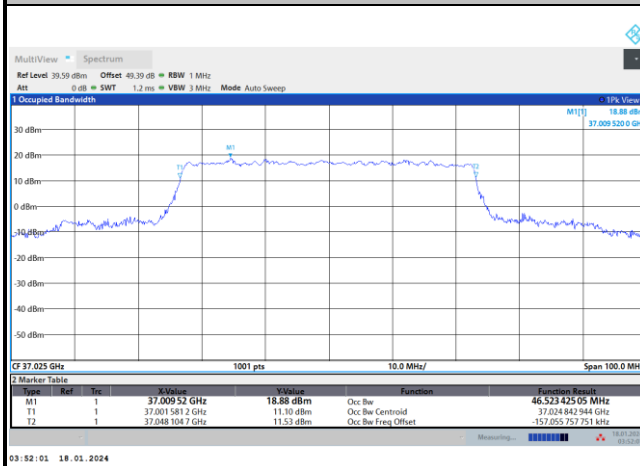




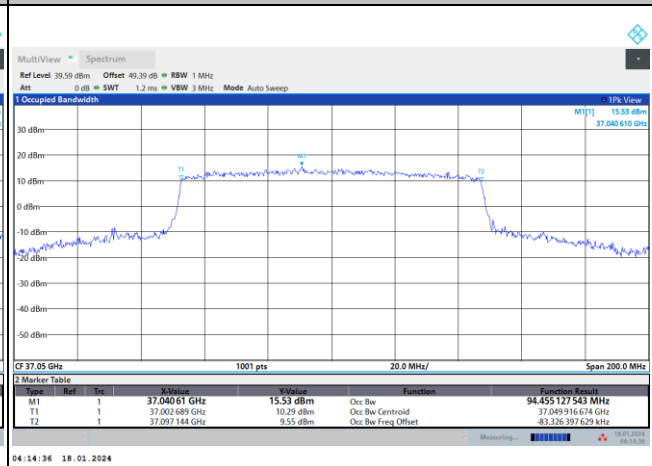
CP-OFDM Module A

NR Band n260

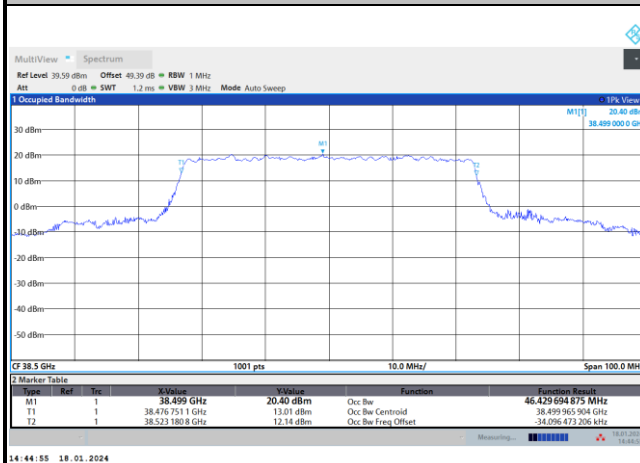
Lowest Channel / 50MHz / QPSK



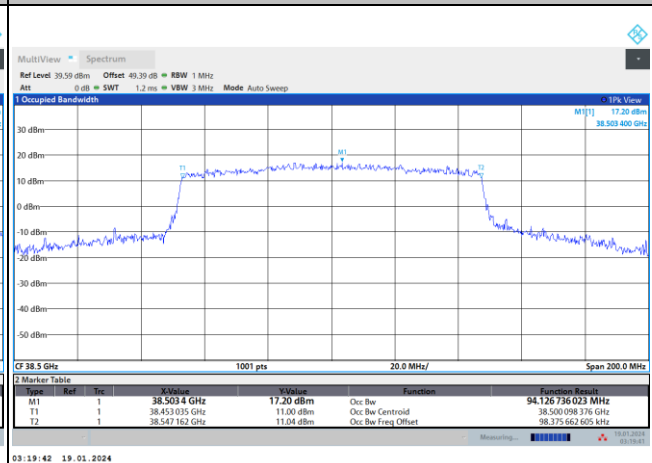
Lowest Channel / 100MHz / QPSK



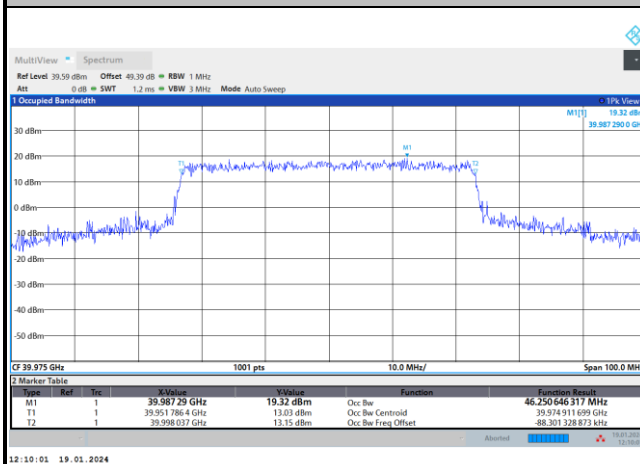
Middle Channel / 50MHz / QPSK



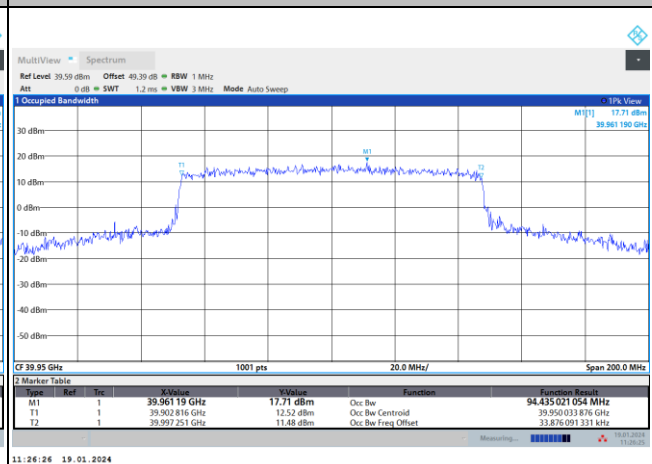
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

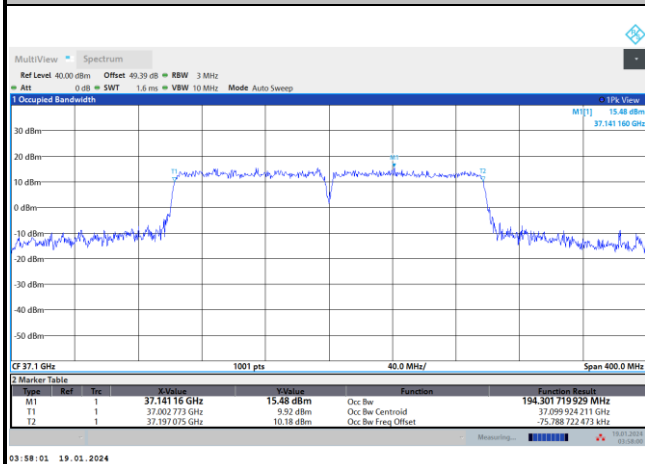




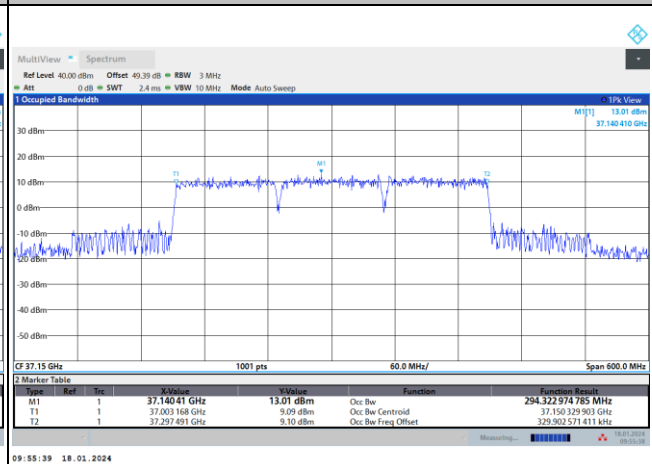
CP-OFDM Module A

NR Band n260

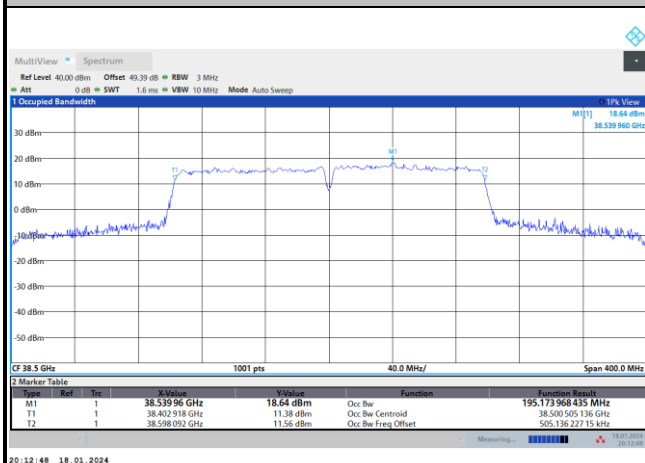
Lowest Channel / 200MHz / QPSK



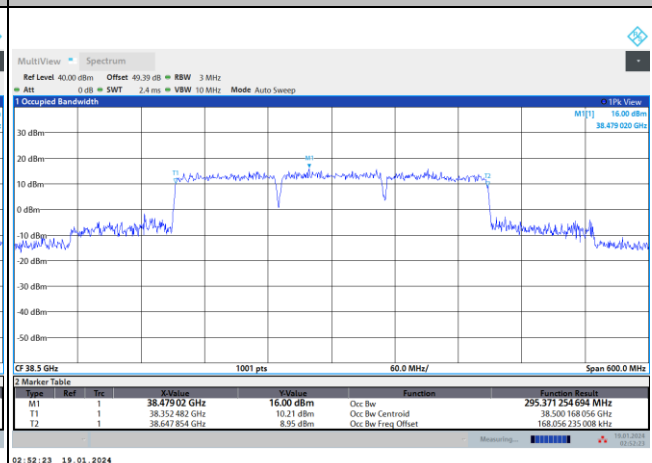
Lowest Channel / 300MHz / QPSK



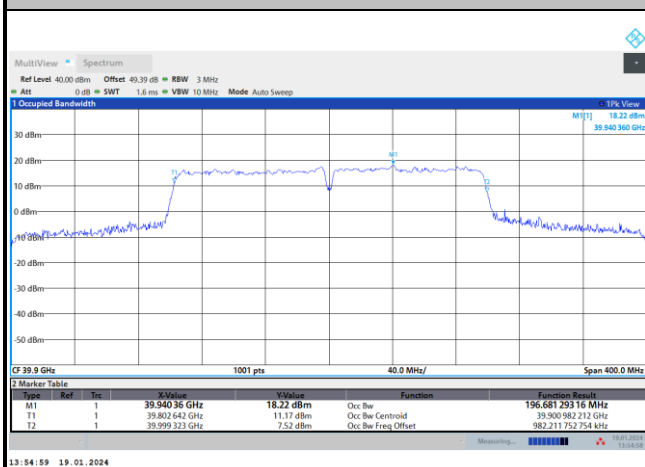
Middle Channel / 200MHz / QPSK



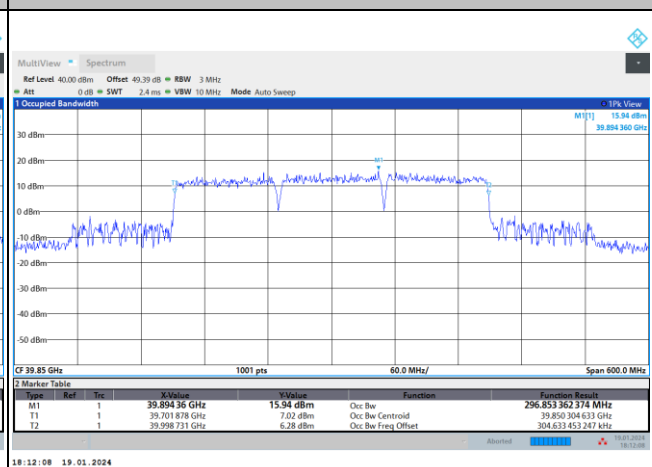
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / QPSK



Highest Channel / 300MHz / QPSK

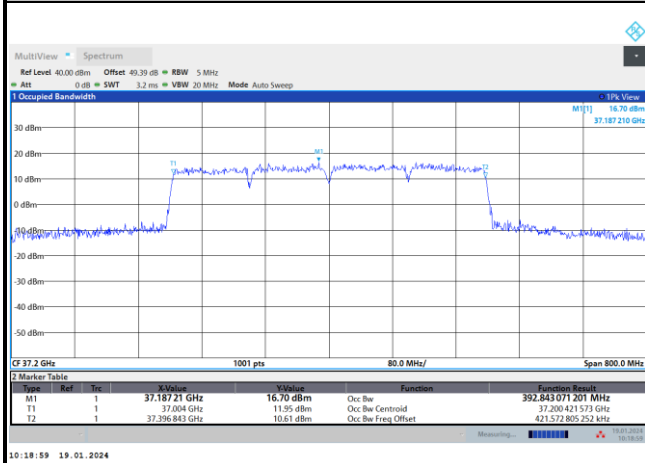




CP-OFDM Module A

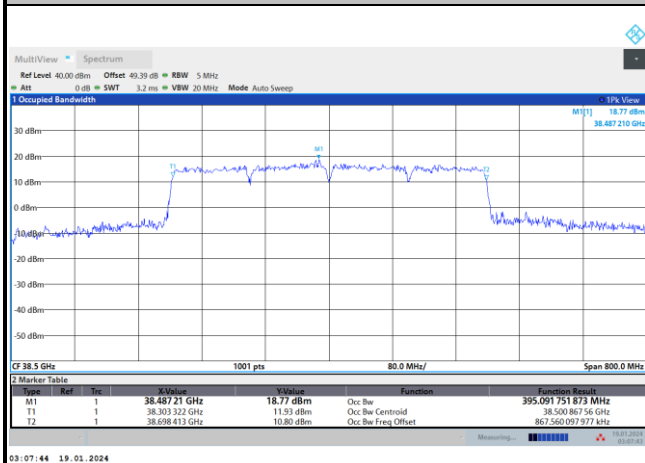
NR Band n260

Lowest Channel / 400MHz / QPSK



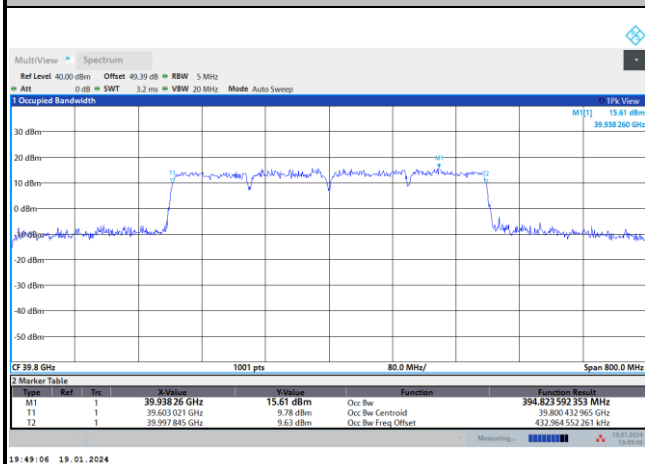
intentionally blank

Middle Channel / 400MHz / QPSK



intentionally blank

Highest Channel / 400MHz / QPSK



intentionally blank

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module A NR Band n260 : BE (dBm) 1 RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-19.459	-19.713	-8.12	-5.65	-8.24	-9.12	-12.94	-16.39	-16.55
	>10%OB	≤-13	-25.051	-25.085	-23.71	-25.22	-27.20	-28.96	-13.64	-20.51	-22.19
High CH	0~10%OB	≤-5	-5.54	-8.39	-9.14	-6.09	-9.72	-9.53	-24.266	-13.81	-15.28
	>10%OB	≤-13	-16.65	-18.86	-19.68	-20.09	-22.10	-23.52	-21.414	-14.62	-19.87
Result			Compliance								

Mode			DFT-s-OFDM Module A NR Band n260 : BE (dBm) 1 RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-27.083	-18.19	-19.89	-16.86	-19.28	-19.51
	>10%OB	≤-13	-21.922	-16.24	-19.70	-13.73	-19.44	-21.10
High CH	0~10%OB	≤-5	-26.112	-26.672	-18.15	-17.25	-20.40	-21.63
	>10%OB	≤-13	-20.118	-22.670	-16.61	-13.99	-18.49	-21.99
Result			Compliance					

Mode			CP-OFDM Module A NR Band n260 : BE (dBm) 1 RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-7.39	-6.73	-26.902
	>10%OB	≤-13	-23.51	-26.47	-21.734
High CH	0~10%OB	≤-5	-8.24	-5.84	-24.227
	>10%OB	≤-13	-19.27	-22.69	-20.556
Result			Compliance		

Mode			CP-OFDM Module A NR Band n260 : BE (dBm) 1 RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-27.093	-27.073
	>10%OB	≤-13	-18.843	-21.868
High CH	0~10%OB	≤-5	-25.769	-26.147
	>10%OB	≤-13	-16.052	-21.562
Result			Compliance	

Mode			DFT-s-OFDM Module A NR Band n260 : BE (dBm) Full RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-13.31	-16.06	-19.38	-16.53	-19.34	-21.95	-23.29	-23.93	-27.37
	>10%OB	≤-13	-17.66	-21.53	-25.93	-20.51	-24.16	-28.50	-29.89	-32.28	-33.76
High CH	0~10%OB	≤-5	-10.15	-13.97	-17.89	-13.67	-16.90	-22.24	-23.55	-26.02	-29.02
	>10%OB	≤-13	-13.38	-15.76	-21.64	-15.58	-19.08	-25.38	-26.06	-29.05	-32.21
Result			Compliance								

Mode			DFT-s-OFDM Module A NR Band n260 : BE (dBm) Full RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-23.11	-26.34	-29.60	-25.68	-27.61	-27.87
	>10%OB	≤-13	-26.17	-30.66	-34.10	-28.48	-31.28	-34.98
High CH	0~10%OB	≤-5	-22.88	-26.47	-29.91	-27.65	-29.16	-32.09
	>10%OB	≤-13	-23.05	-27.25	-31.79	-27.69	-29.75	-33.00
Result			Compliance					

Mode			CP-OFDM Module A NR Band n260 : BE (dBm) Full RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-15.14	-17.94	-22.98
	>10%OB	≤-13	-18.12	-21.04	-26.06
High CH	0~10%OB	≤-5	-11.86	-14.19	-18.46
	>10%OB	≤-13	-13.44	-16.37	-22.19
Result			Compliance		

Mode			CP-OFDM Module A NR Band n260 : BE (dBm) Full RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-22.45	-24.27
	>10%OB	≤-13	-23.75	-26.33
High CH	0~10%OB	≤-5	-19.05	-24.21
	>10%OB	≤-13	-20.57	-25.96
Result			Compliance	

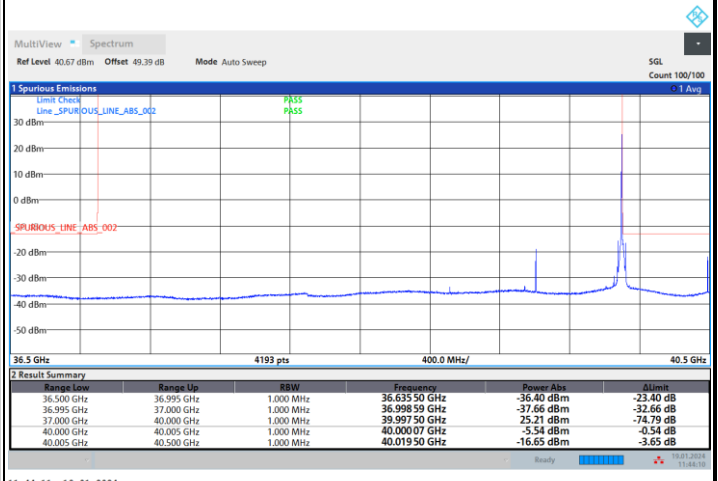
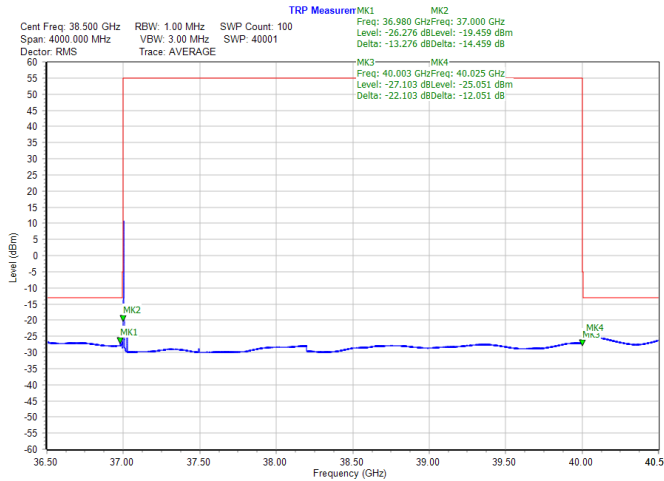


DFT-s-OFDM Module A

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB

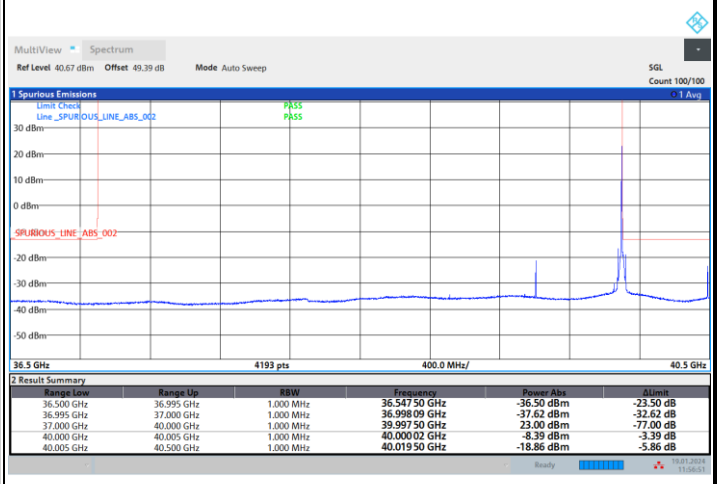
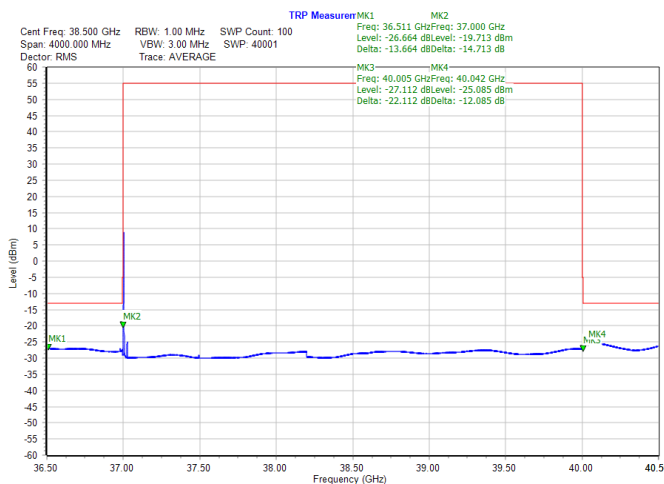
Highest Band Edge / 1 RB



NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

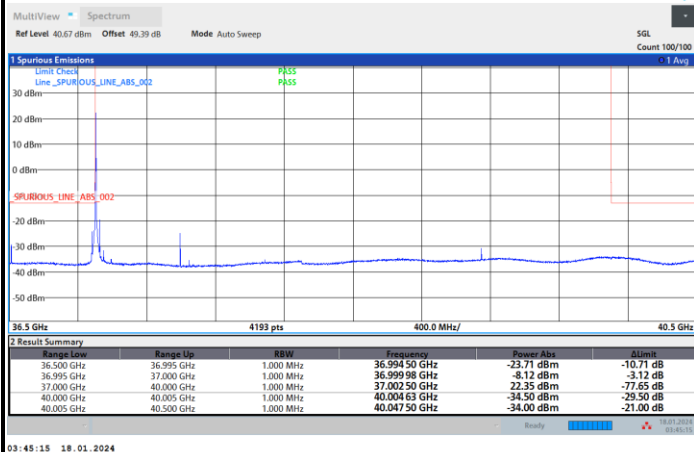




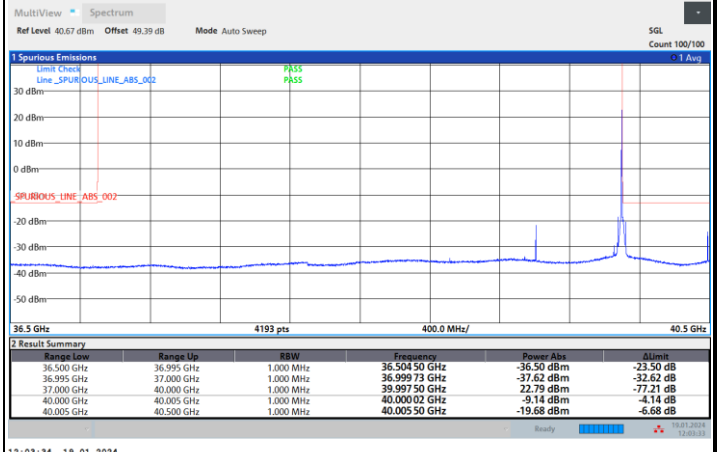
DFT-s-OFDM Module A

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / 1 RB

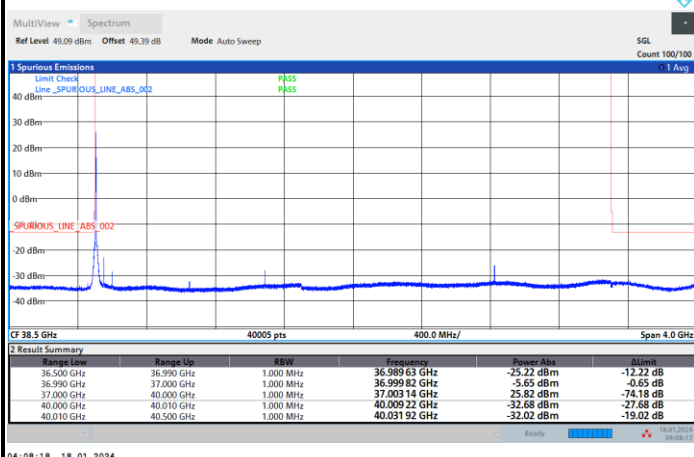


Highest Band Edge / 1 RB

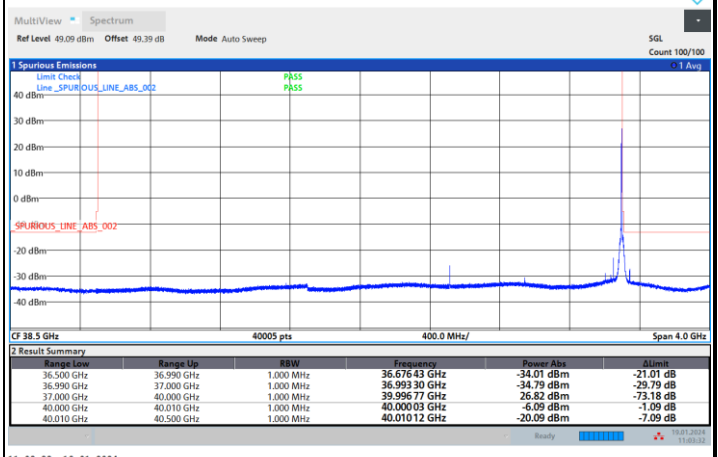


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

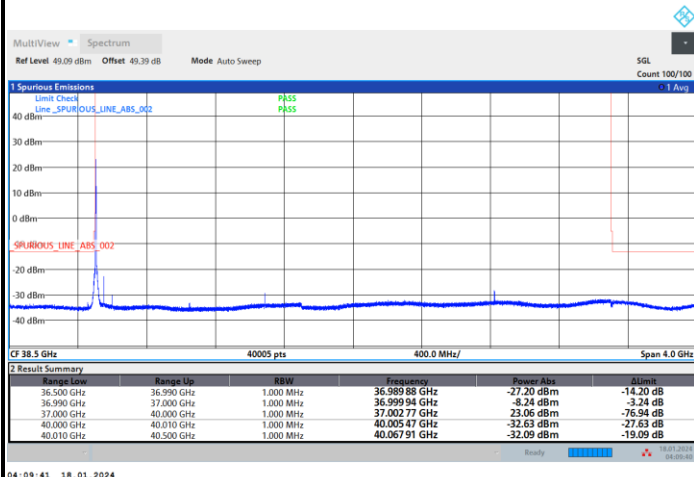




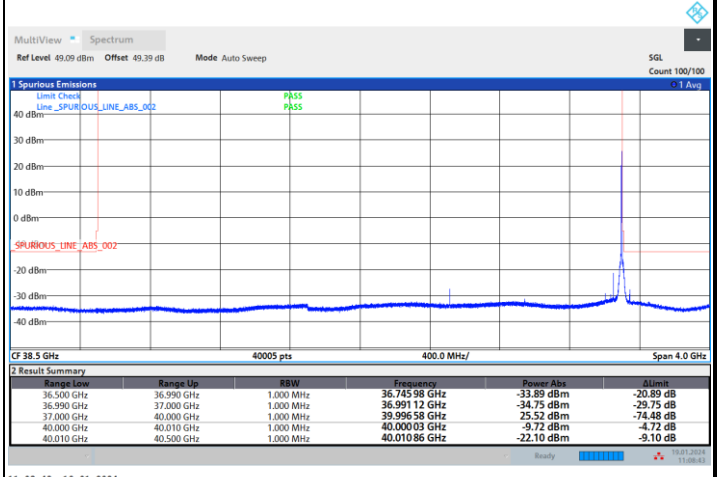
DFT-s-OFDM Module A

NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

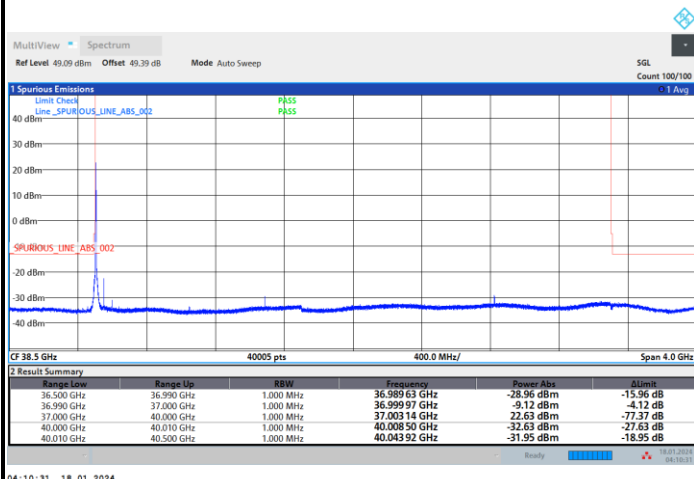


Highest Band Edge / 1 RB



NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

