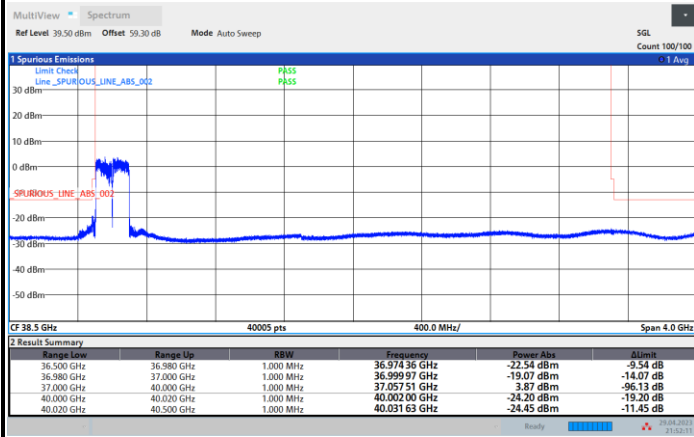




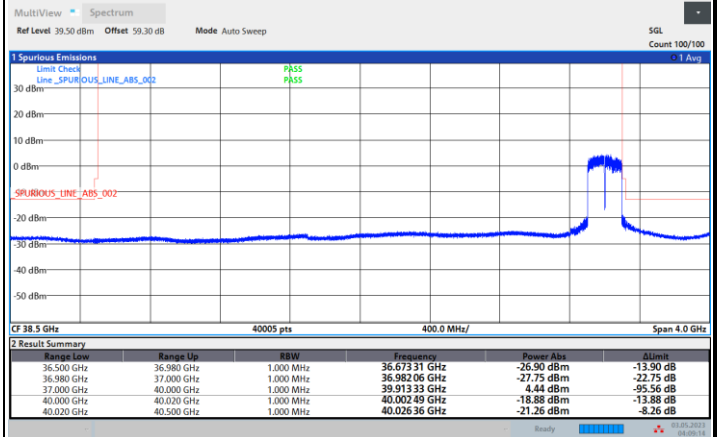
CP-OFDM Module B

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



NR Band n260 / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



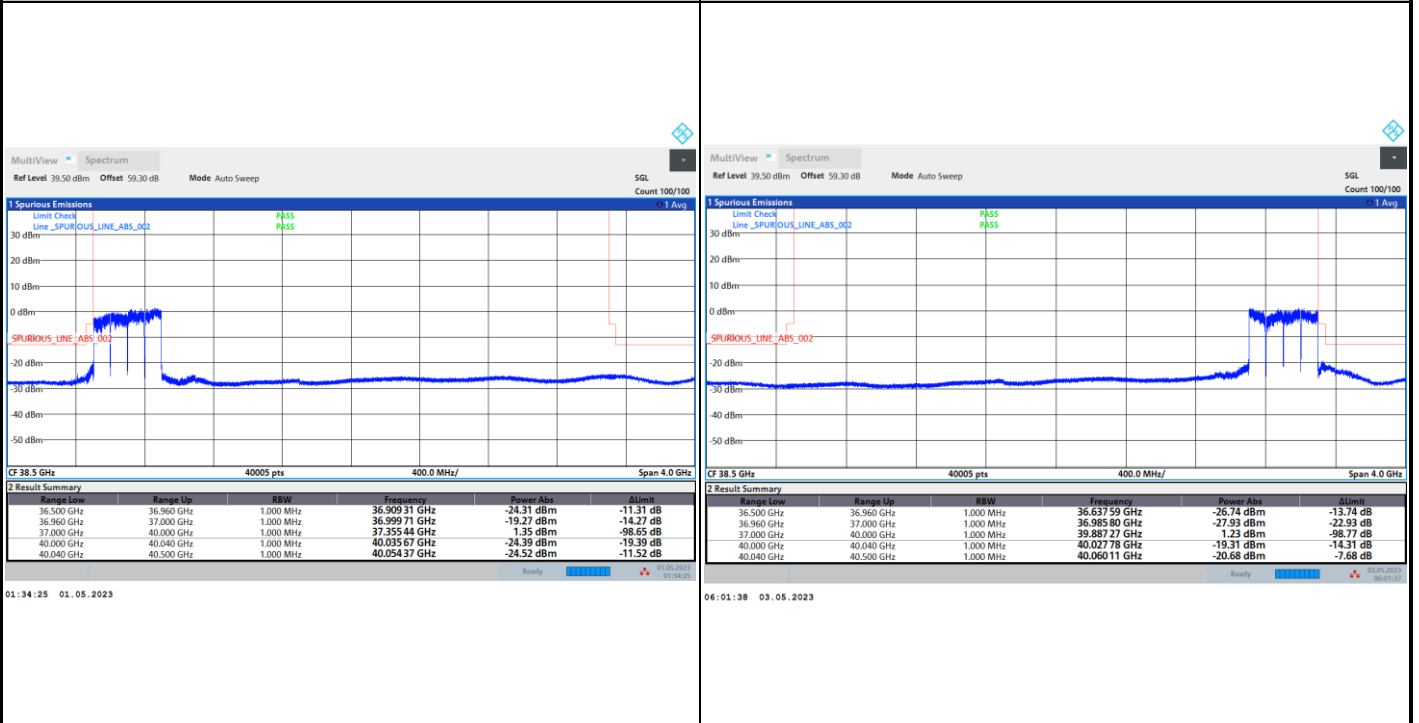


CP-OFDM Module B

NR Band n260 / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

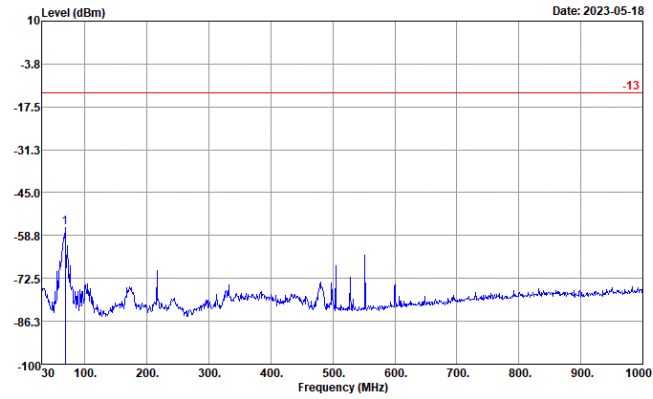




Spurious Emission

NR Band n260 (30MHz-1GHz)

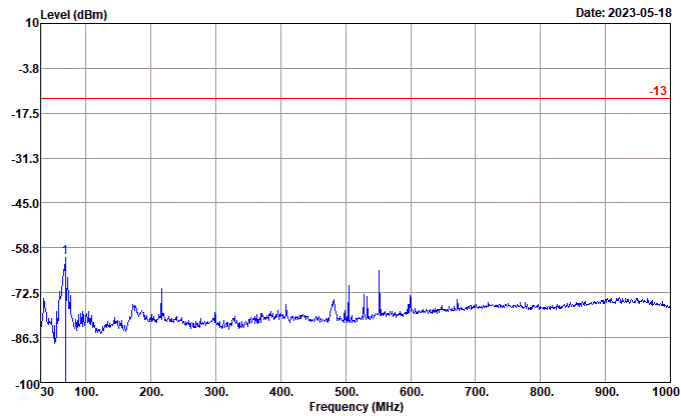
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0208-01
: n260 MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	67.83	-56.11	-43.11	-13.00	-51.15

Vertical



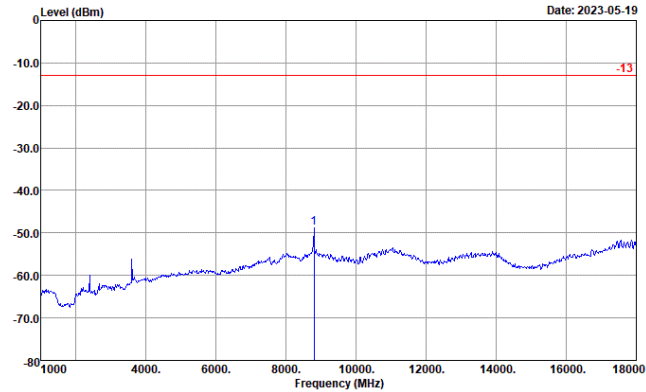
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0208-01
: n260 MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	67.83	-61.62	-48.62	-13.00	-53.44



NR Band n260 (1GHz-18GHz)

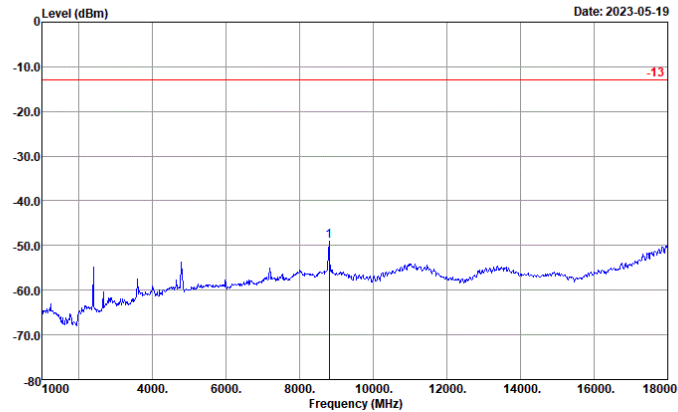
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0208-01
: n260 MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	8803.00	-48.71	-35.71	-13.00	-49.81

Vertical



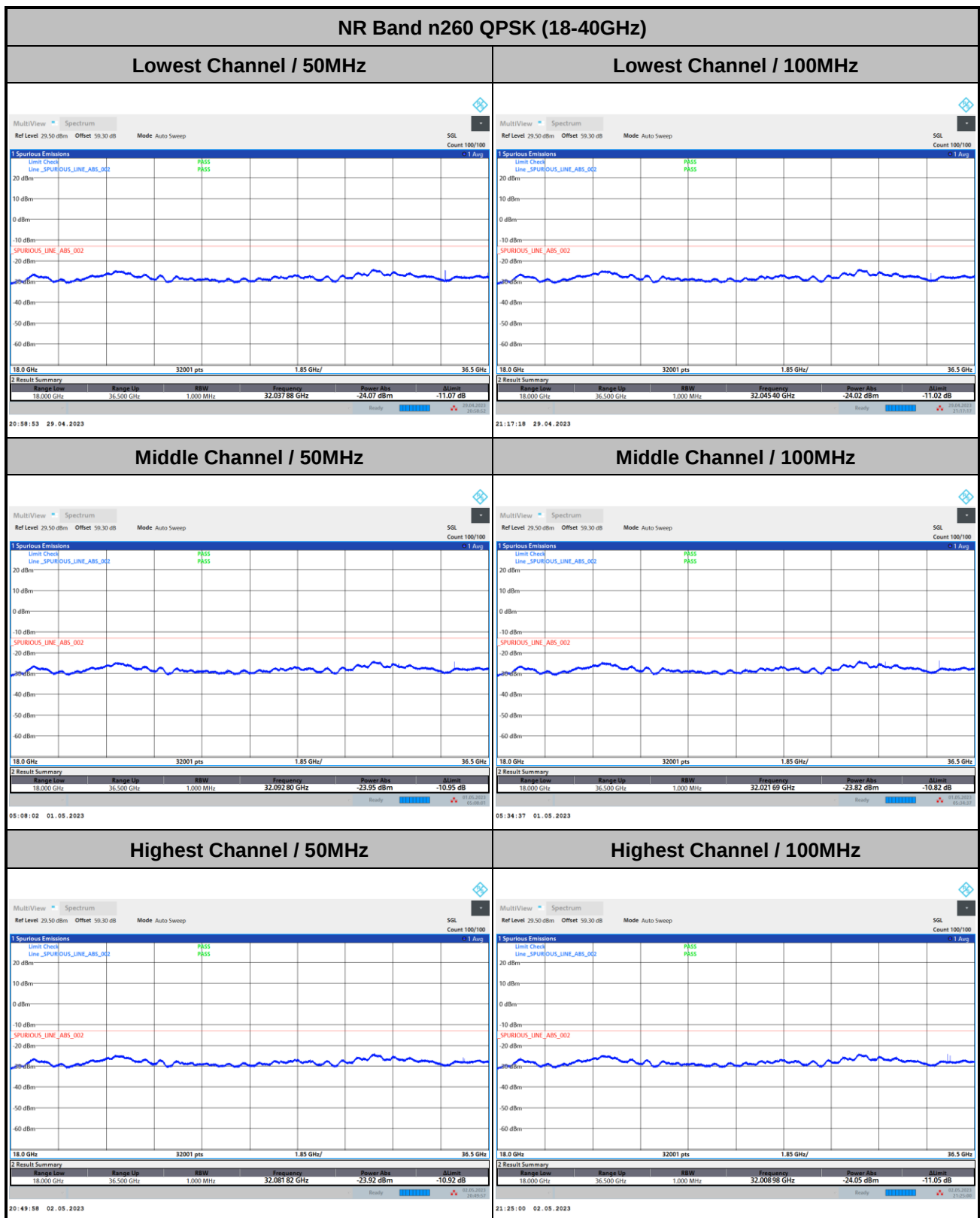
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0208-01
: n260 MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	8803.00	-49.04	-36.04	-13.00	-49.63



Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

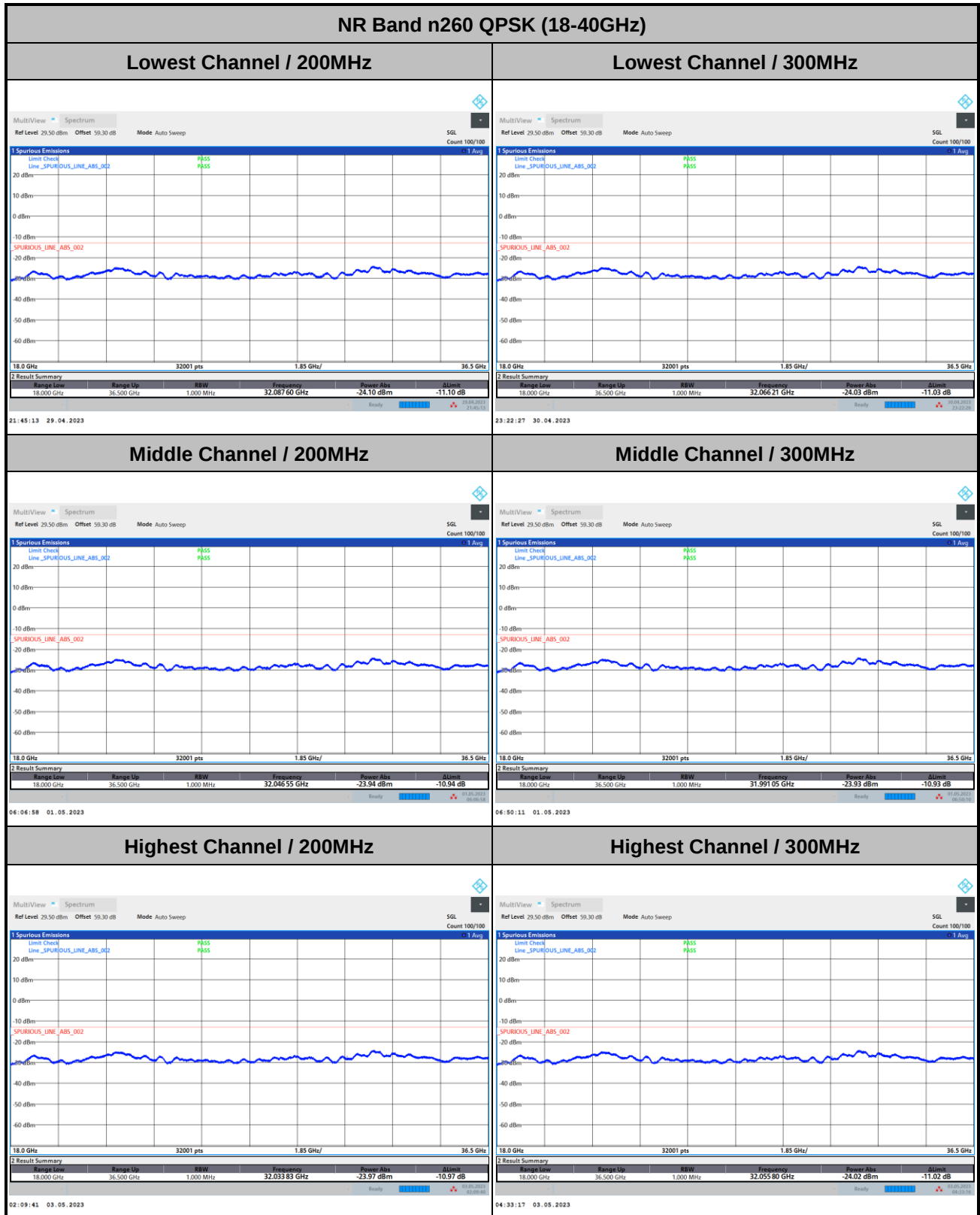
DFT-s-OFDM Module B



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



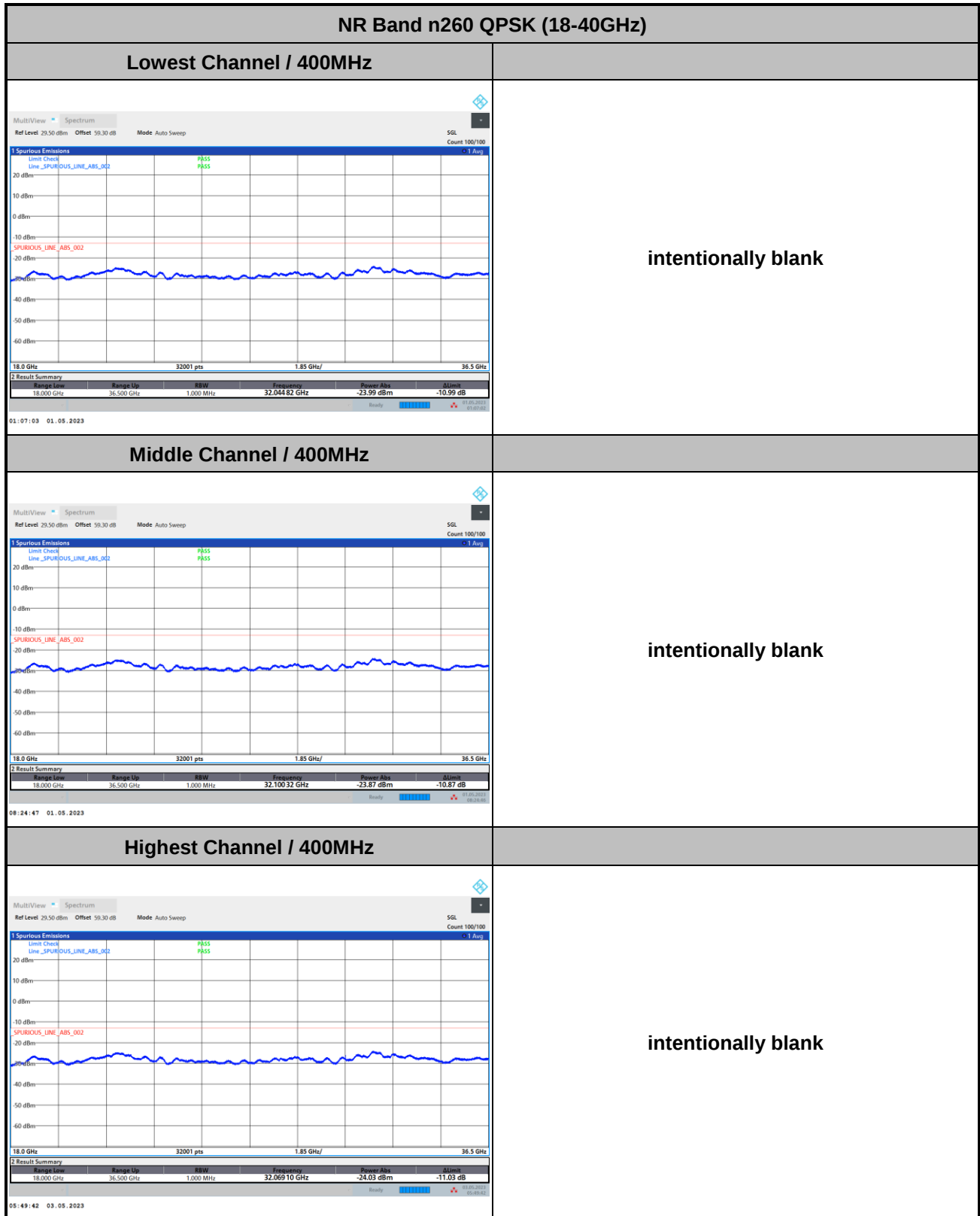
DFT-s-OFDM Module B



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



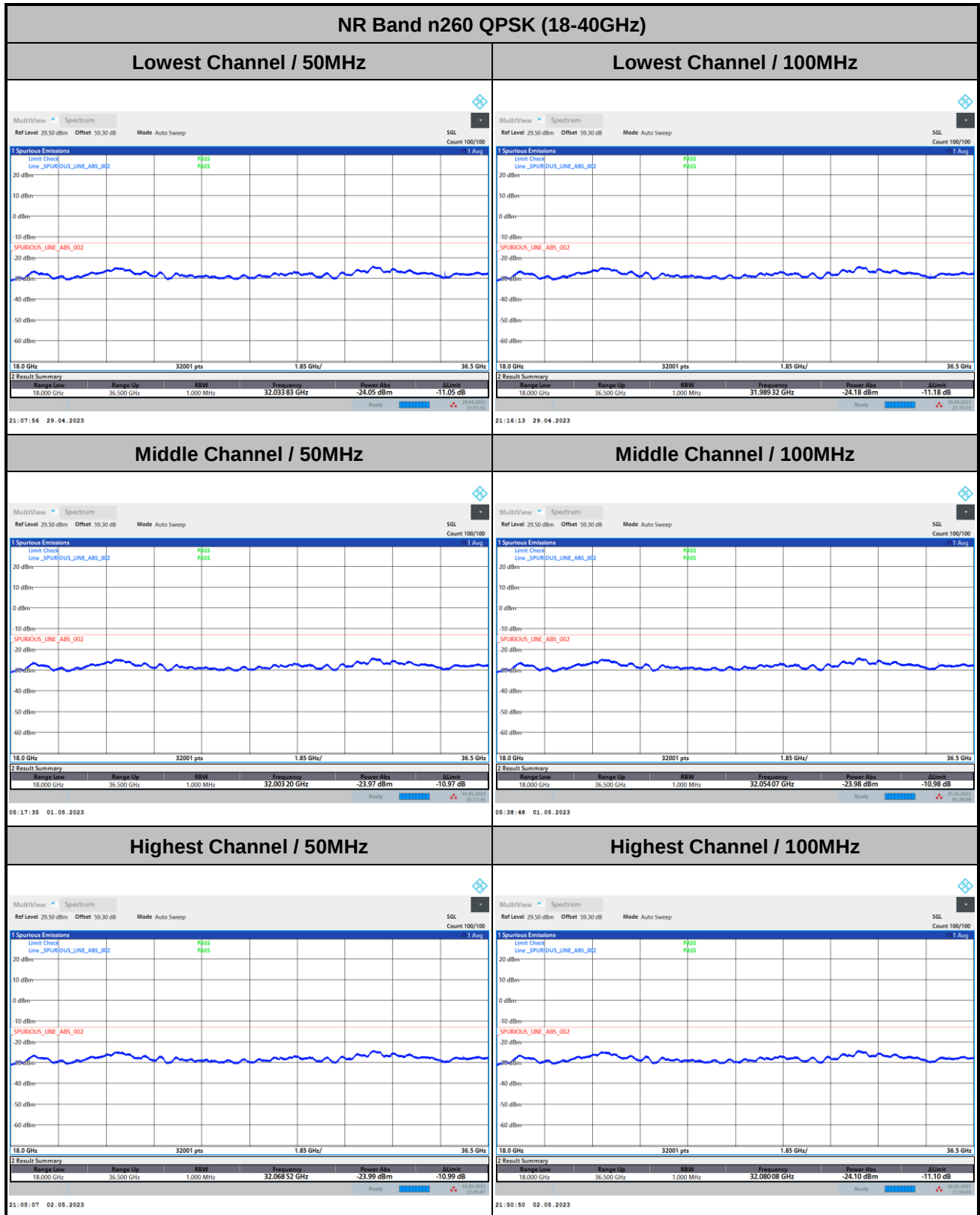
DFT-s-OFDM Module B



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



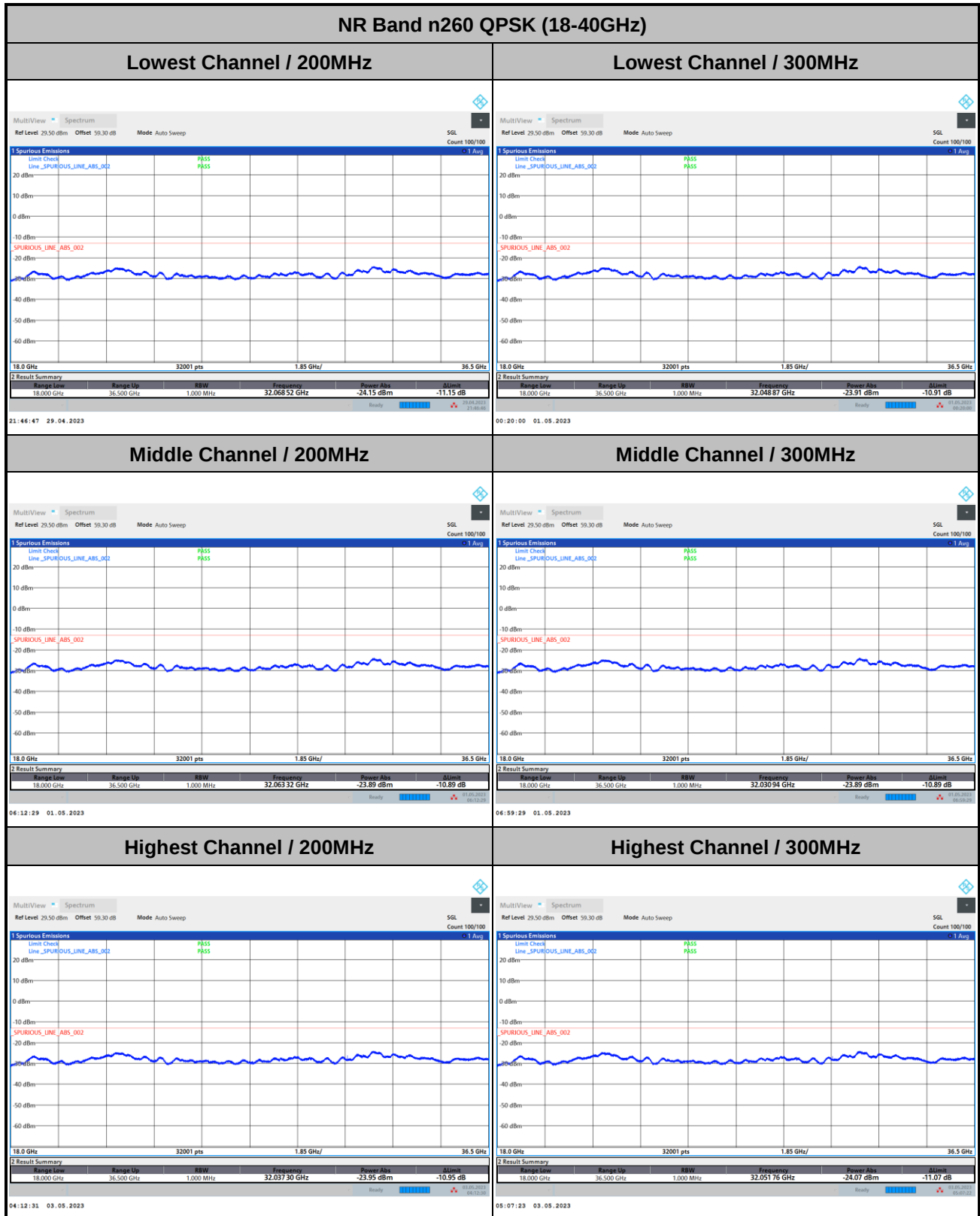
CP-OFDM Module B



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



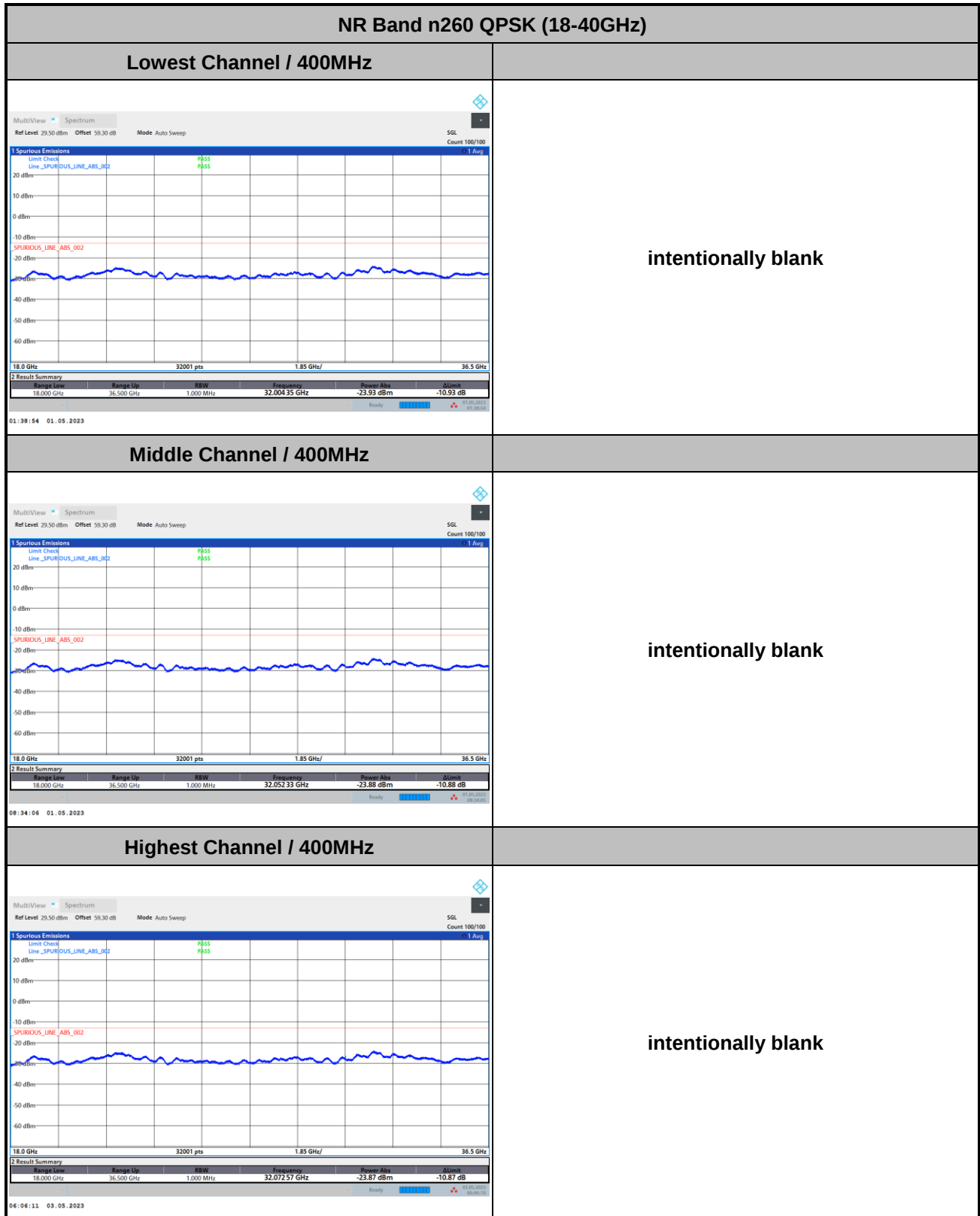
CP-OFDM Module B



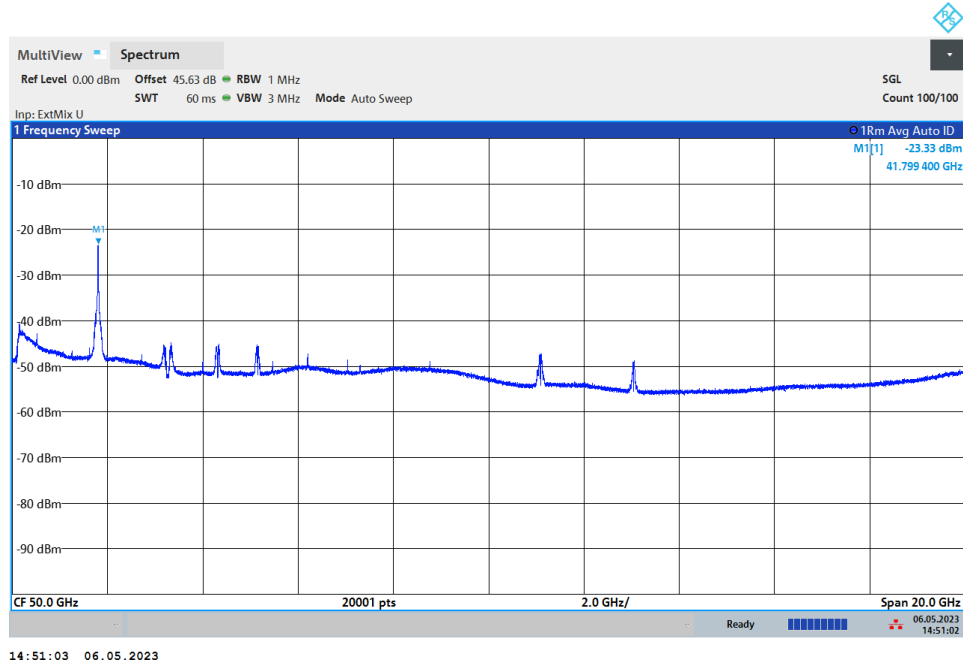
Remark: In band and out of band frequencies are omitted.



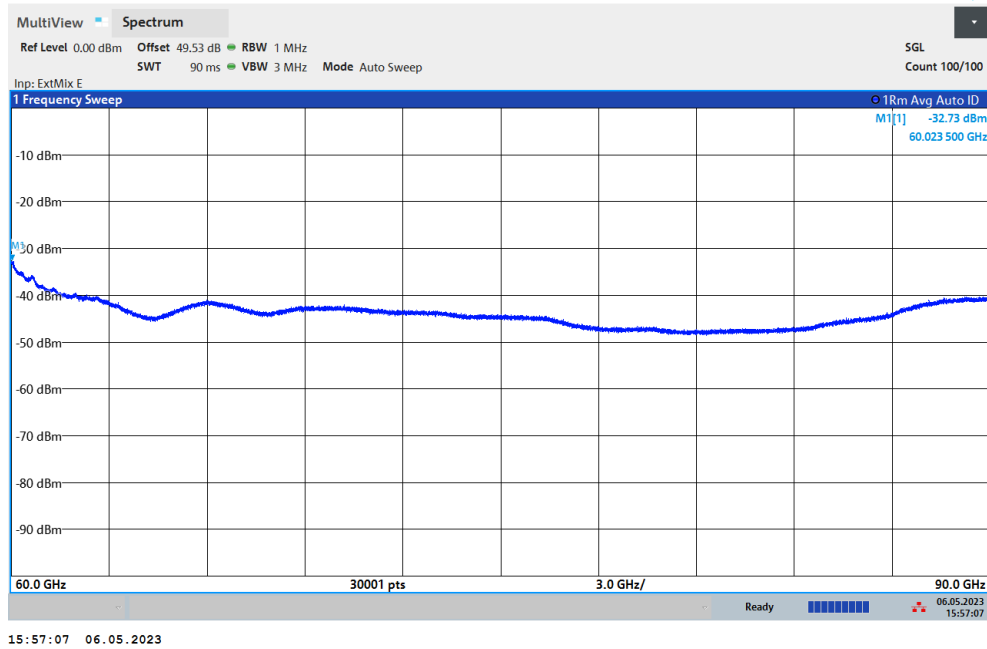
CP-OFDM Module B



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

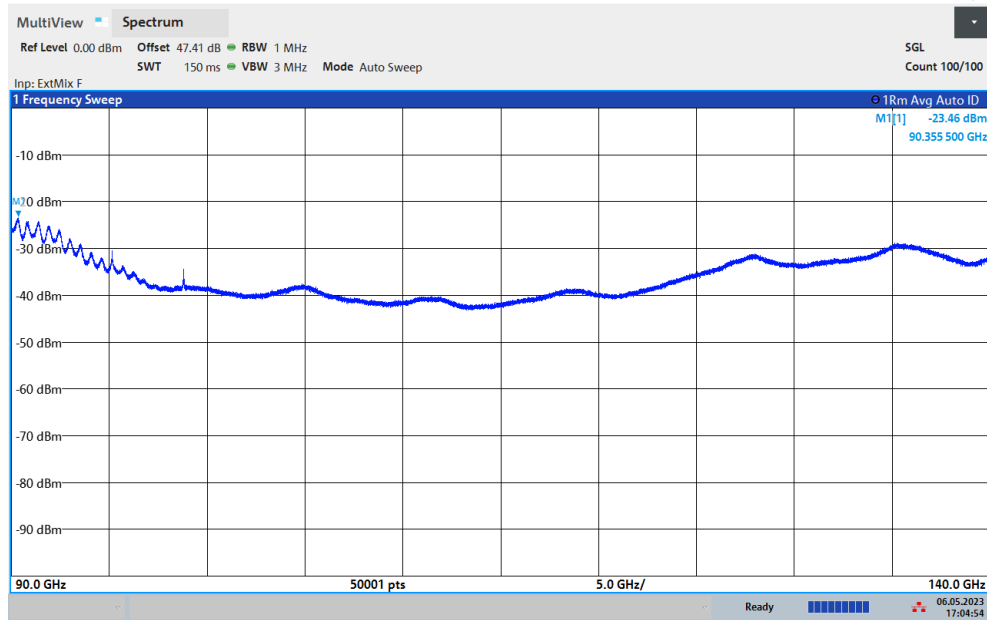
NR Band n260
(40GHz-60GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 43 + 0.43 + 107 + 20\log(1) - 104.8 = 45.63(\text{dB}) \end{aligned}$$

NR Band n260
(60GHz-90GHz)


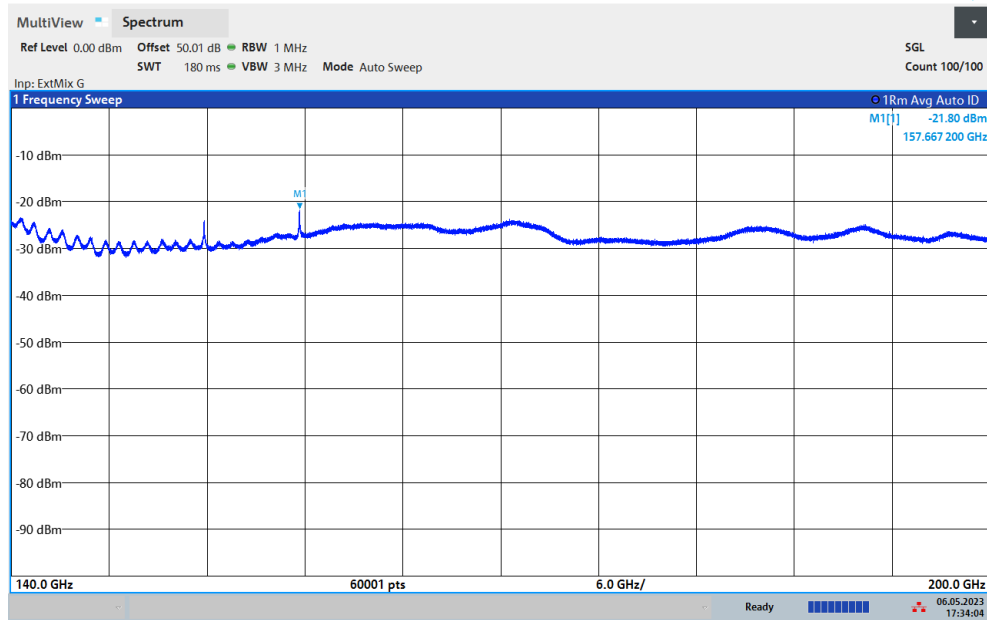
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor}$$

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

NR Band n260
(90GHz-140GHz)


17:04:54 06.05.2023

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 50.80 + 0.43 + 107 + 20\log(0.5) - 104.8 = 47.41 \text{ (dB)} \end{aligned}$$

NR Band n260
(140GHz-200GHz)


17:34:05 06.05.2023

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 53.4 + 0.43 + 107 + 20\log(0.5) - 104.8 = 50.01(\text{dB}) \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.500005	-5.000	0.130	Pass
40	Normal Voltage	38.500014	-14.000	0.364	
30	Normal Voltage	38.500024	-24.000	0.623	
20(Ref.)	Normal Voltage	38.5	0.000	0.000	
10	Normal Voltage	38.5000989	-98.900	2.569	
0	Normal Voltage	38.5001139	-113.900	2.958	
-10	Normal Voltage	38.5002068	-206.800	5.371	
-20	Normal Voltage	38.5002198	-219.800	5.709	
-30	Normal Voltage	38.5002318	-231.800	6.021	
20	Maximum Voltage	38.500031	-31.000	0.805	
20	Normal Voltage	38.500029	-29.000	0.753	
20	Battery End Point	38.50003	-30.000	0.779	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the operation band.

NR Band n261 Module A AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.08	45.95	45.85	91.28	91.27	91.23	189.61	189.44	188.98
Middle CH	46.01	46.23	45.88	91.07	91.17	91.14	189.61	188.96	189.62
Highest CH	46.12	46.03	45.71	91.65	91.36	91.28	188.88	188.67	189.38

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	288.14	287.82	287.79	386.36	385.49	385.25
Middle CH	288.99	288.60	288.17	386.27	387.59	387.33
Highest CH	288.98	287.01	288.30	387.53	386.82	386.81

Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.07	94.11	192.33
Middle CH	46.11	94.22	193.24
Highest CH	46.08	94.20	192.64

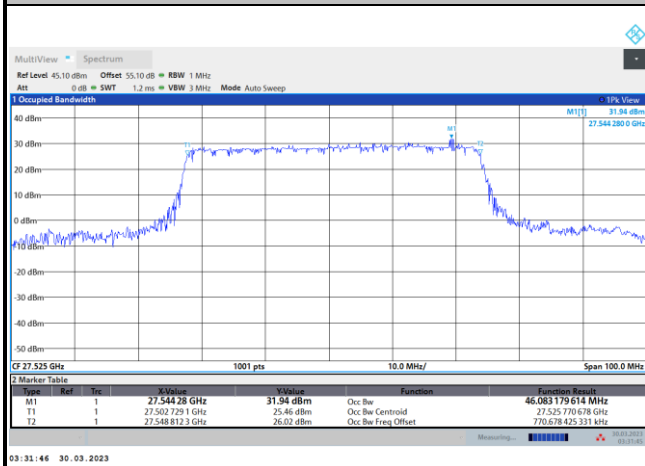
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	290.87	388.39*
Middle CH	292.54	391.45
Highest CH	292.32	391.50



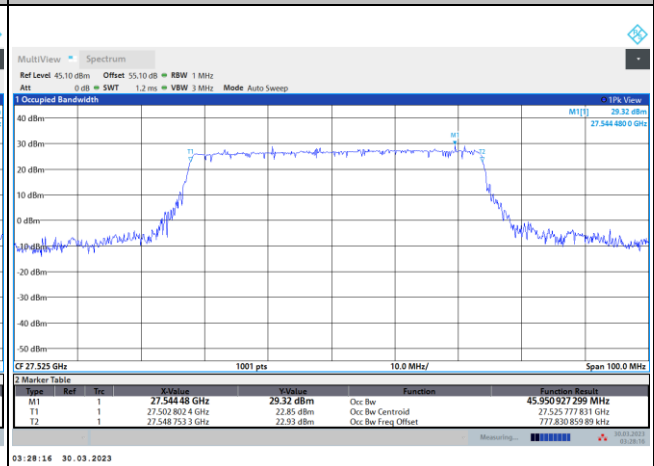
DFT-s-OFDM Module A

NR Band n261

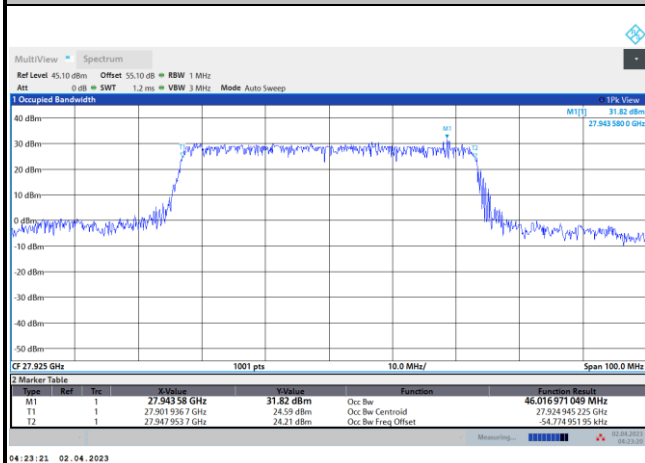
Lowest Channel / 50MHz / QPSK



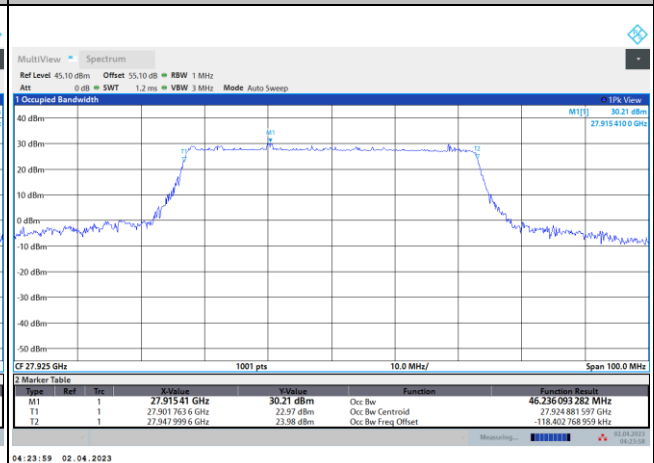
Lowest Channel / 50MHz / 16QAM



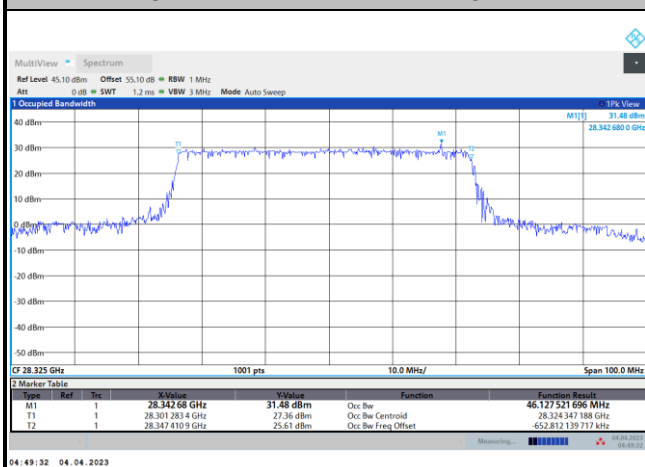
Middle Channel / 50MHz / QPSK



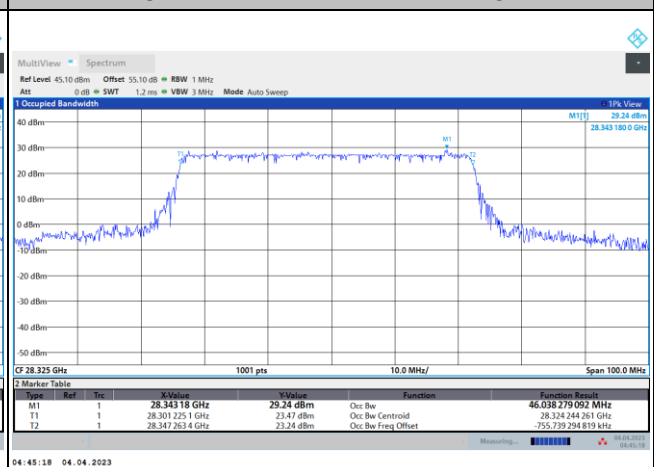
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

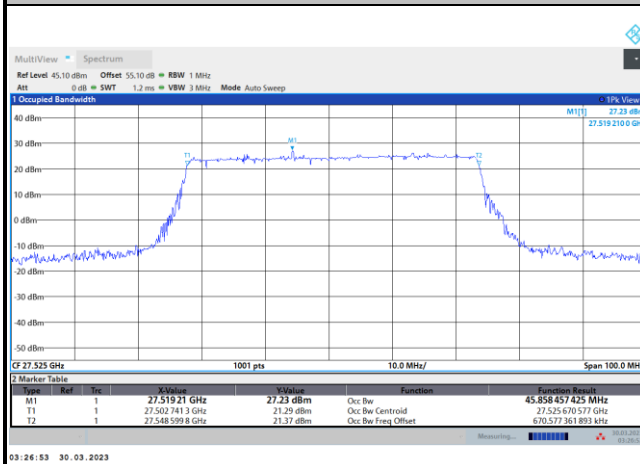




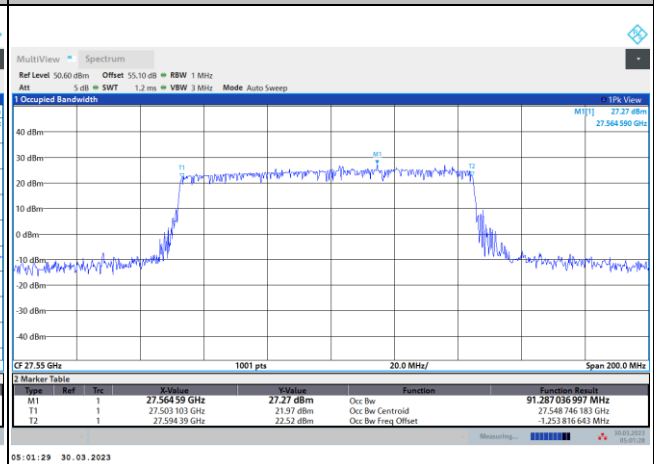
DFT-s-OFDM Module A

NR Band n261

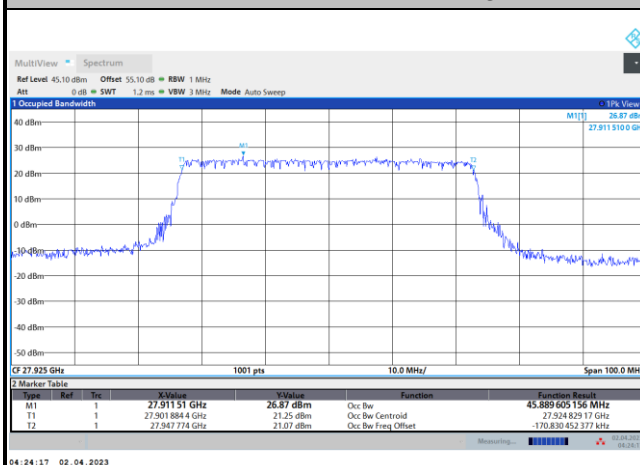
Lowest Channel / 50MHz / 64QAM



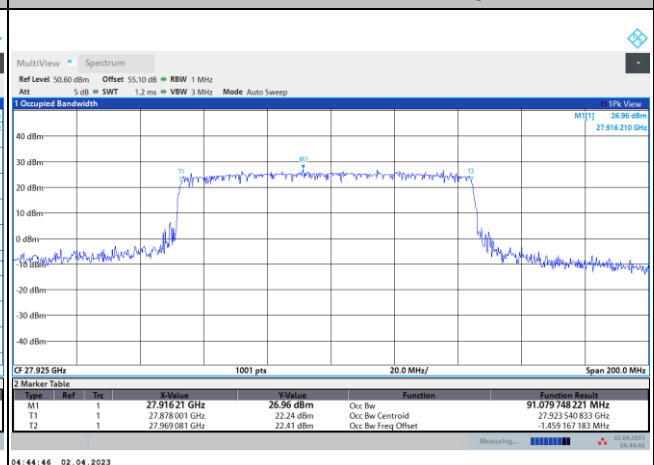
Lowest Channel / 100MHz / QPSK



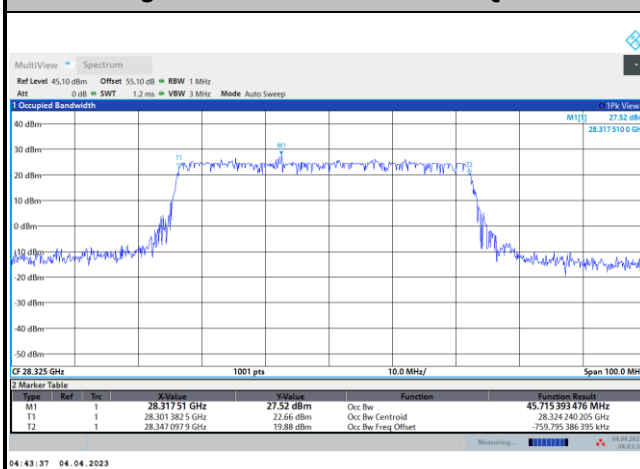
Middle Channel / 50MHz / 64QAM



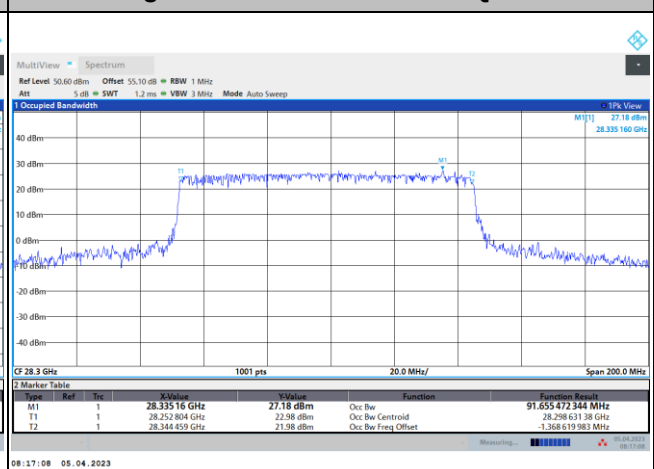
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

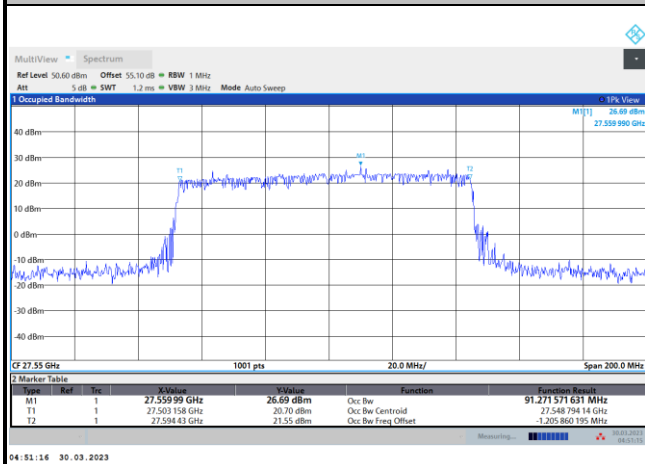




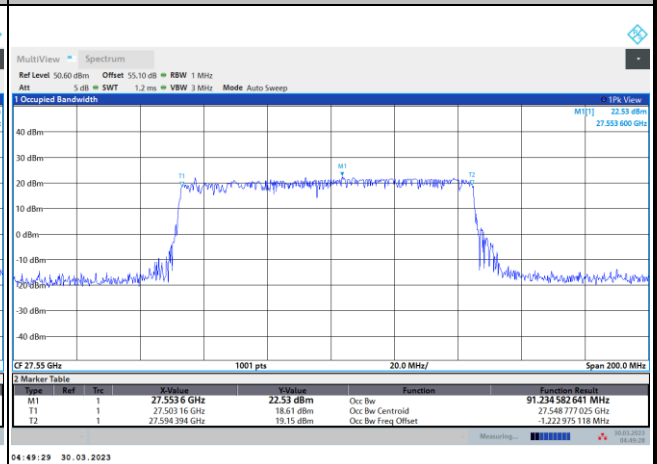
DFT-s-OFDM Module A

NR Band n261

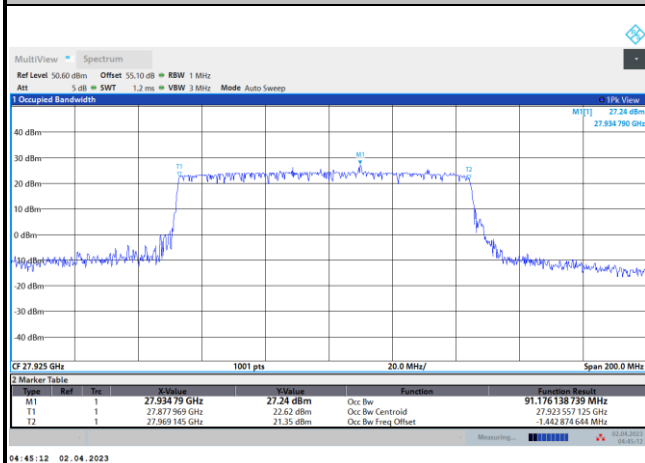
Lowest Channel / 100MHz / 16QAM



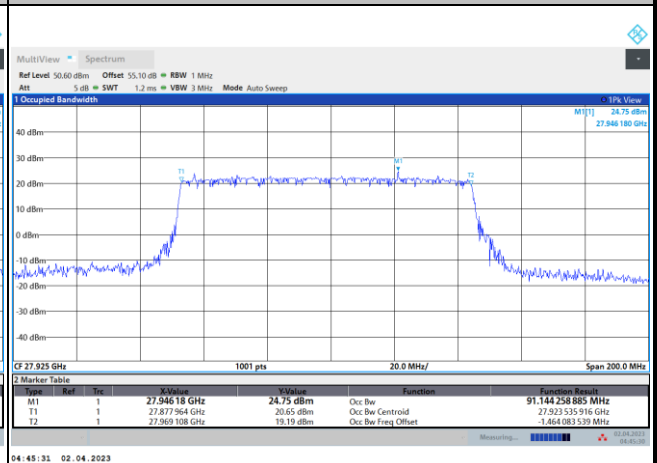
Lowest Channel / 100MHz / 64QAM



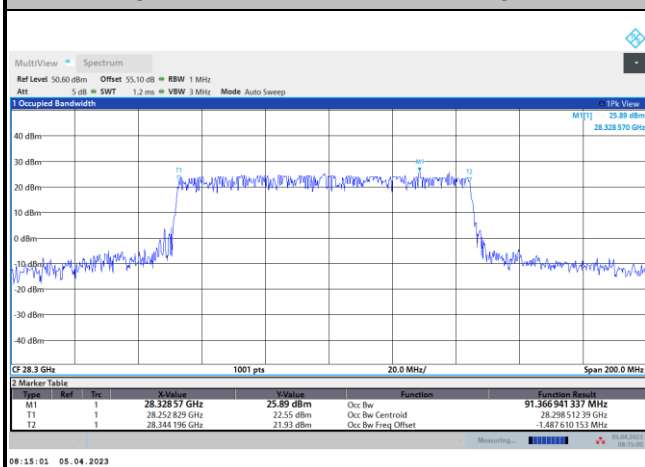
Middle Channel / 100MHz / 16QAM



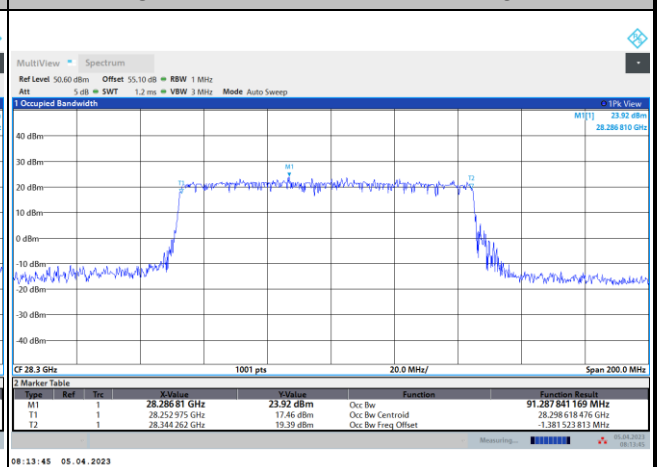
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

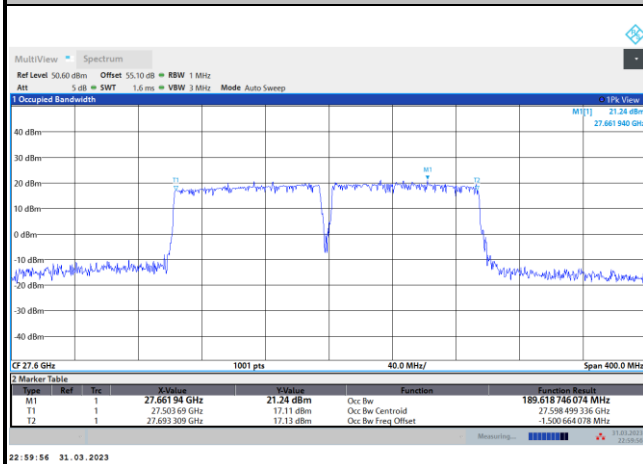




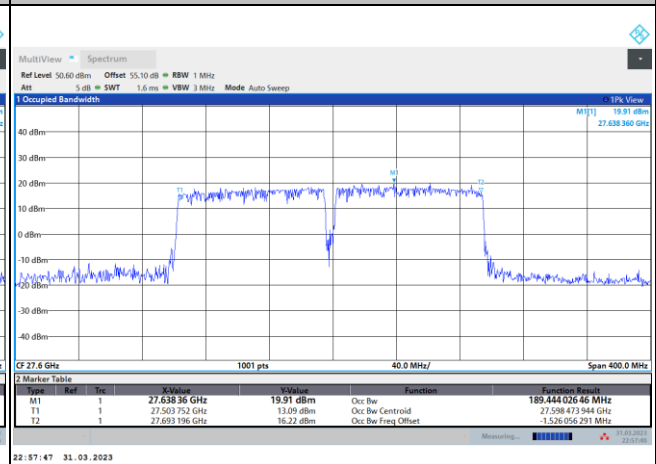
DFT-s-OFDM Module A

NR Band n261

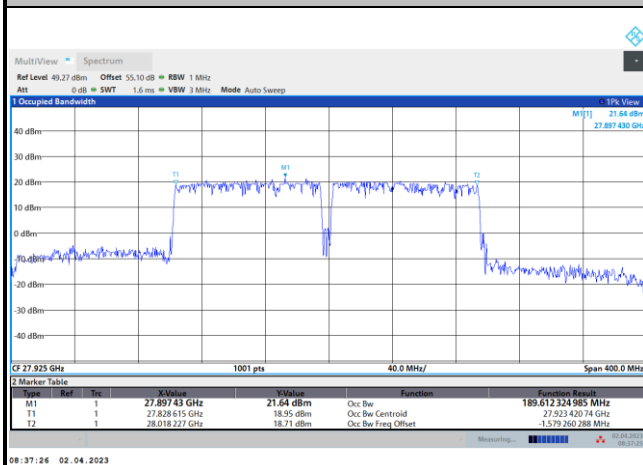
Lowest Channel / 200MHz / QPSK



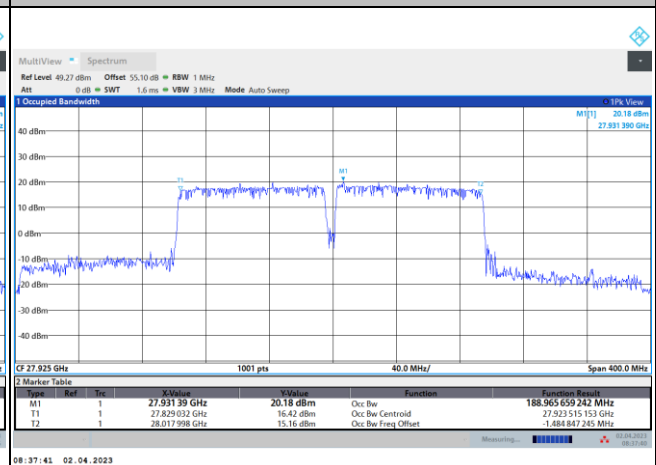
Lowest Channel / 200MHz / 16QAM



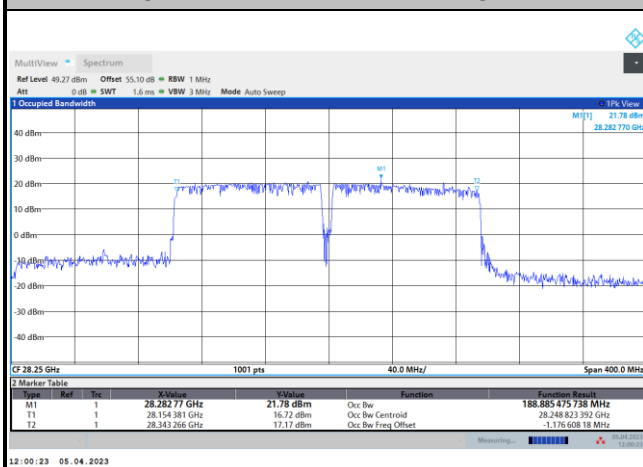
Middle Channel / 200MHz / QPSK



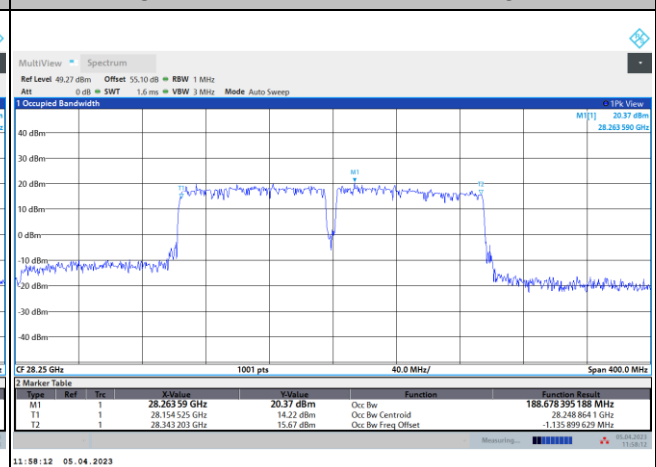
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

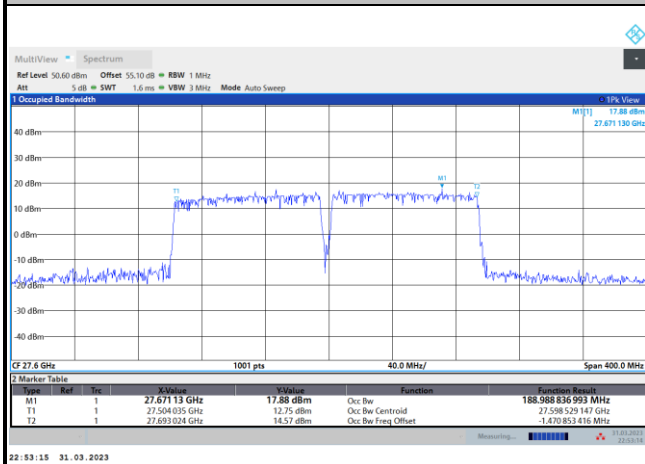




DFT-s-OFDM Module A

NR Band n261

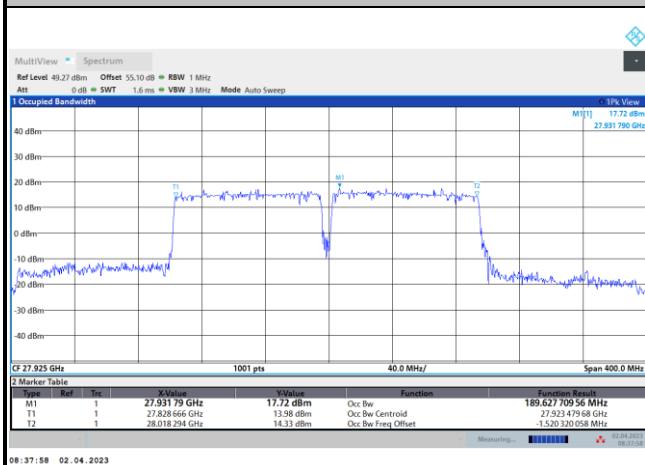
Lowest Channel / 200MHz / 64QAM



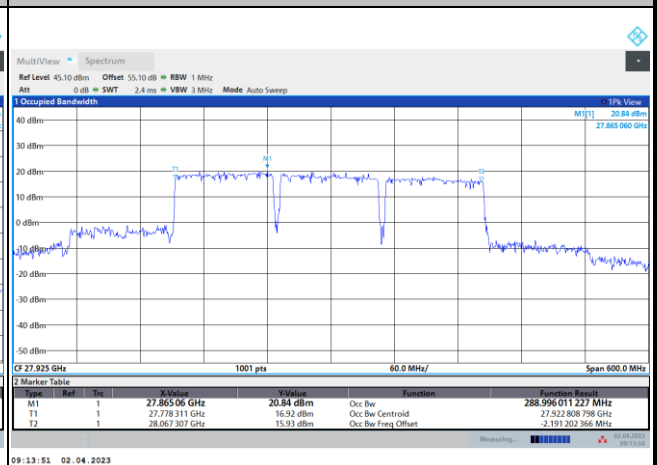
Lowest Channel / 300MHz / QPSK



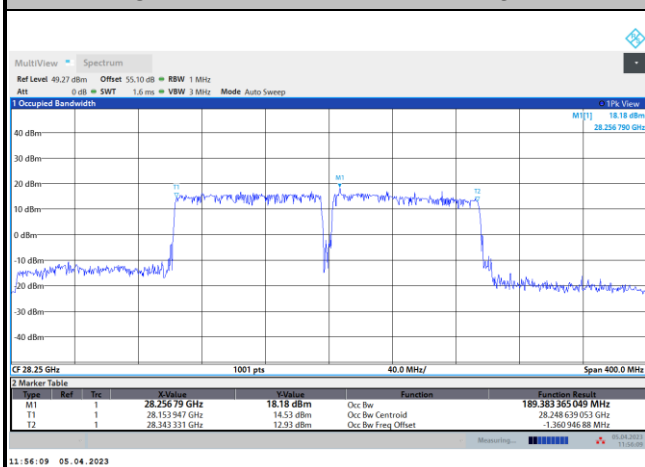
Middle Channel / 200MHz / 64QAM



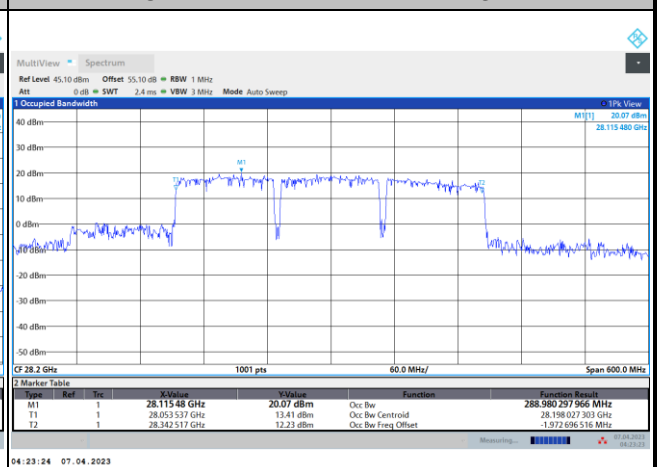
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

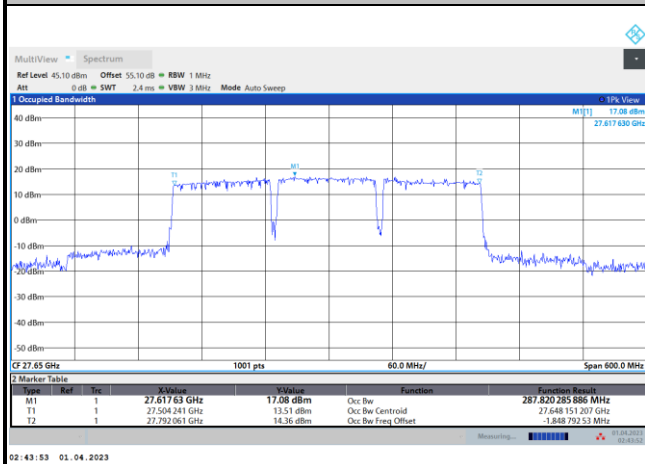




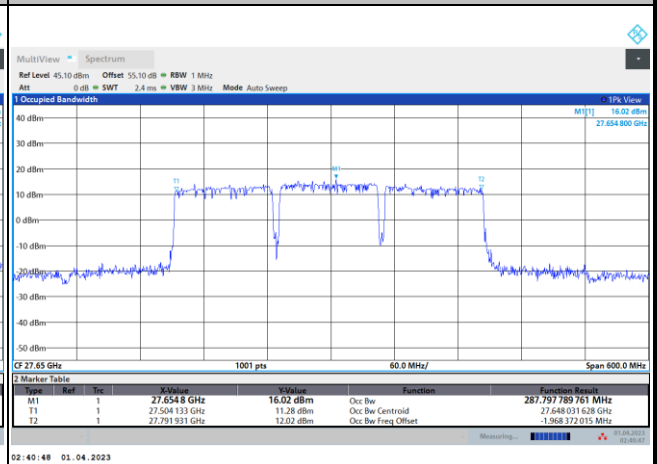
DFT-s-OFDM Module A

NR Band n261

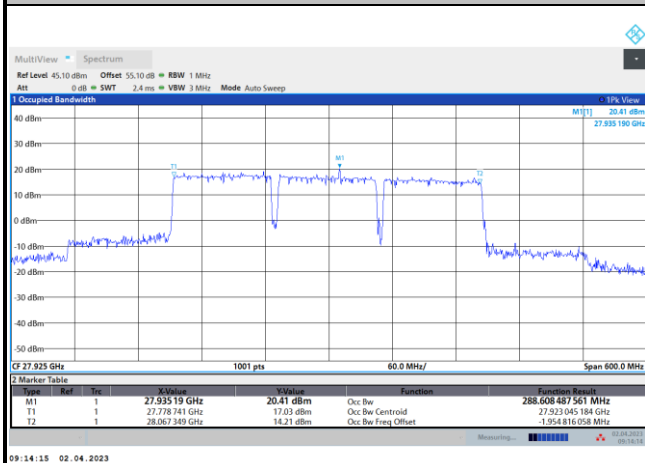
Lowest Channel / 300MHz / 16QAM



Lowest Channel / 300MHz / 64QAM



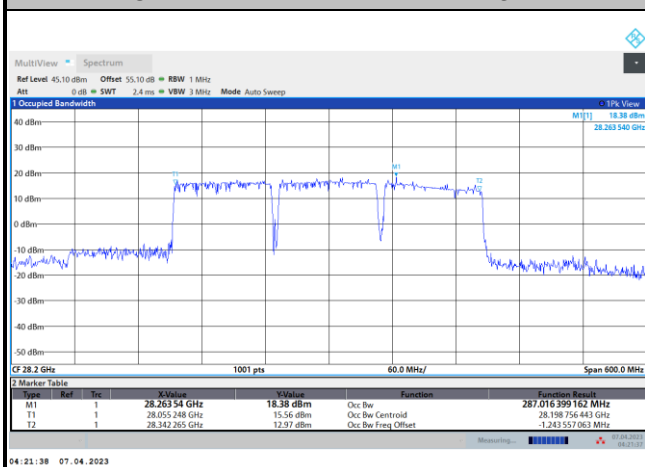
Middle Channel / 300MHz / 16QAM



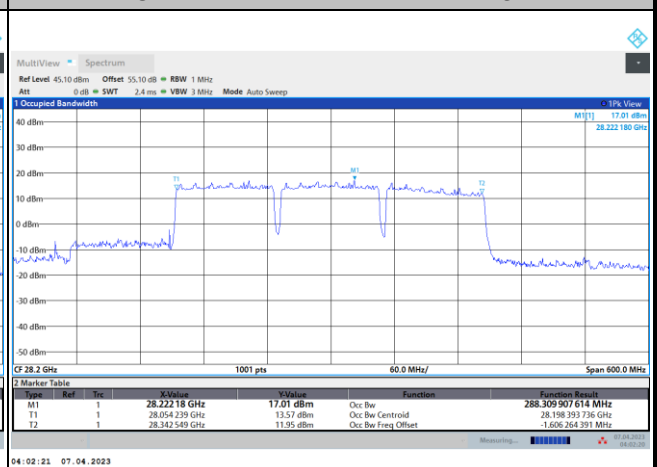
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM





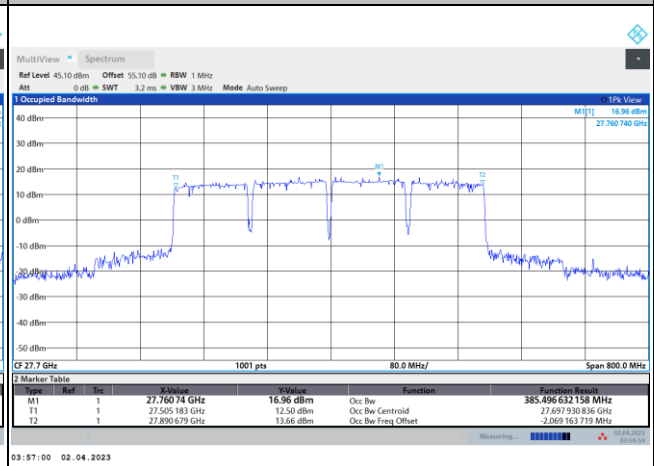
DFT-s-OFDM Module A

NR Band n261

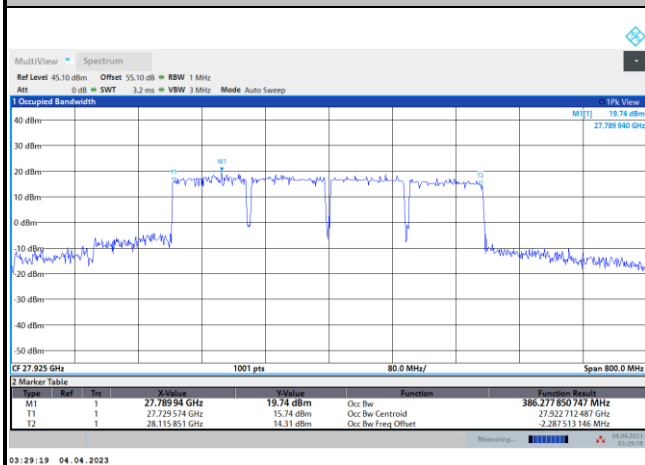
Lowest Channel / 400MHz / QPSK



Lowest Channel / 400MHz / 16QAM



Middle Channel / 400MHz / QPSK



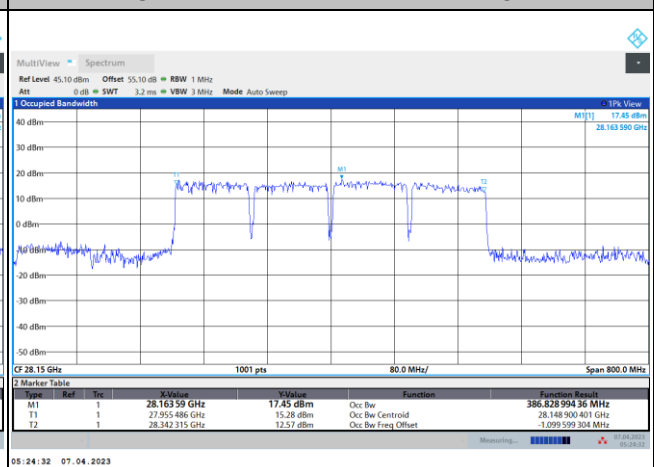
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM

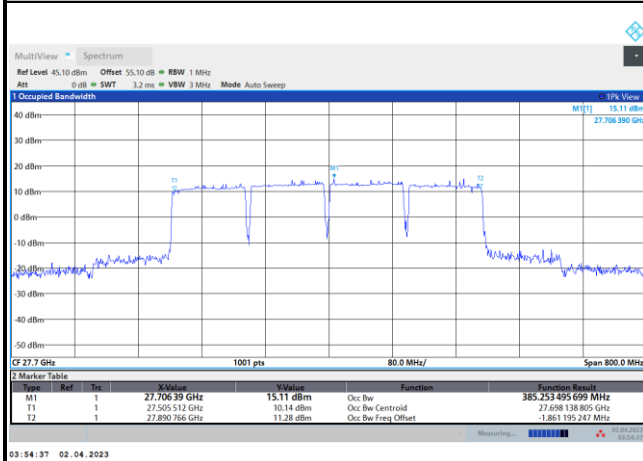




DFT-s-OFDM Module A

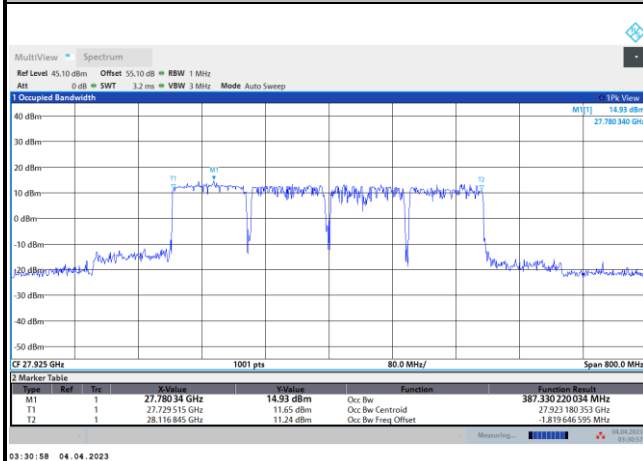
NR Band n261

Lowest Channel / 400MHz / 64QAM



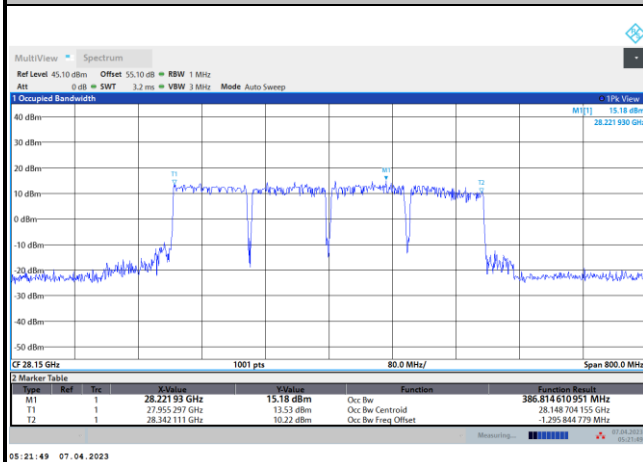
intentionally blank

Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



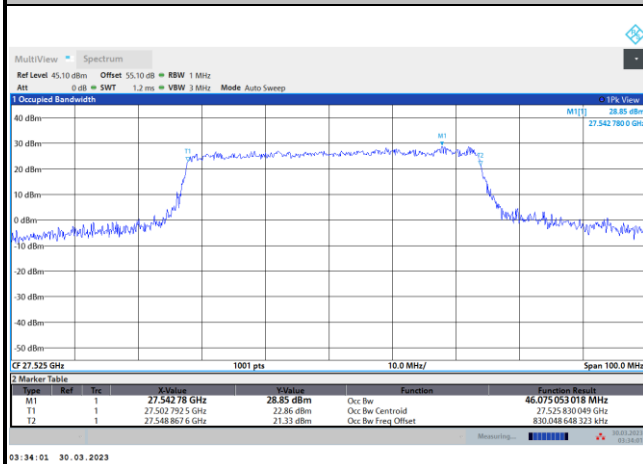
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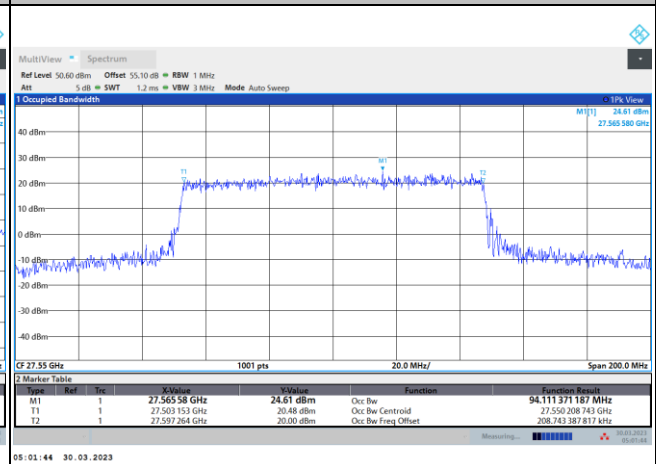
CP-OFDM Module A

NR Band n261

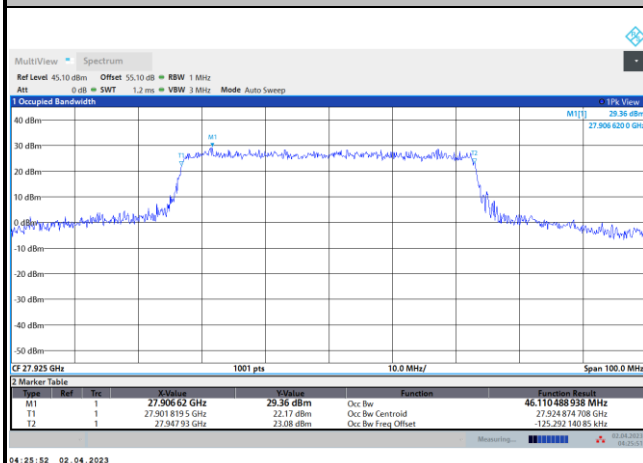
Lowest Channel / 50MHz / QPSK



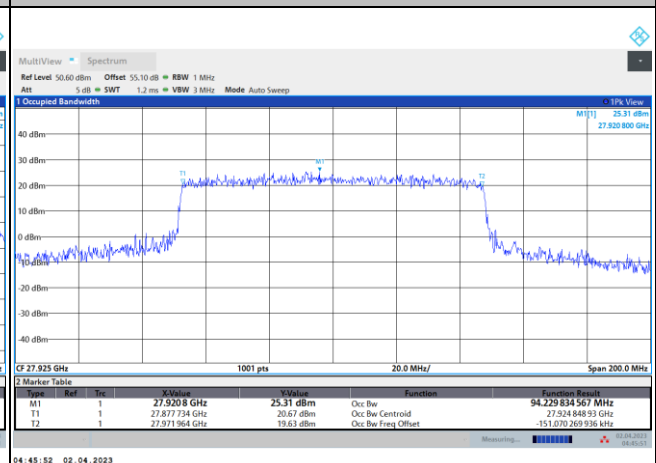
Lowest Channel / 100MHz / QPSK



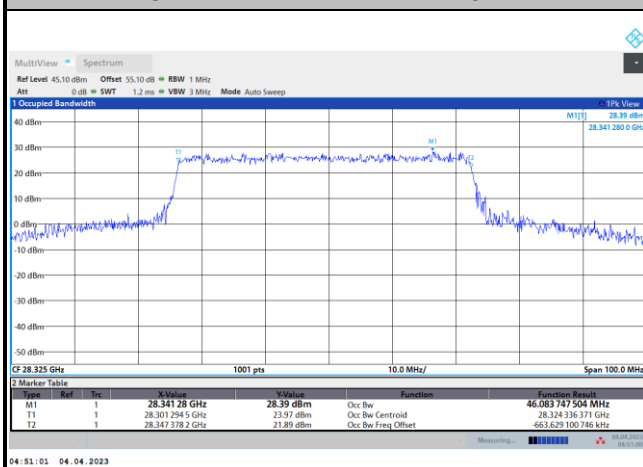
Middle Channel / 50MHz / QPSK



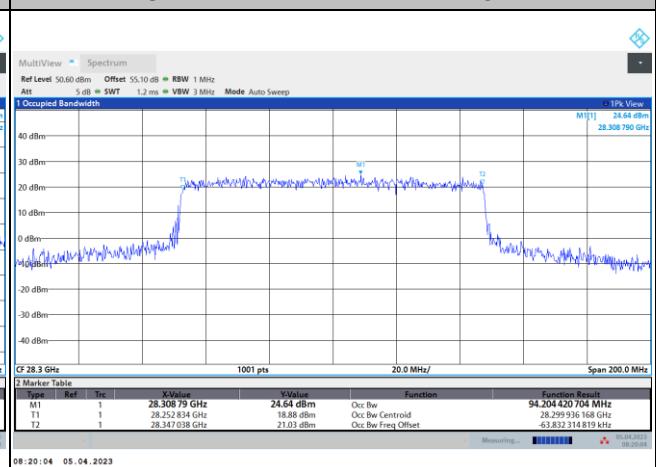
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

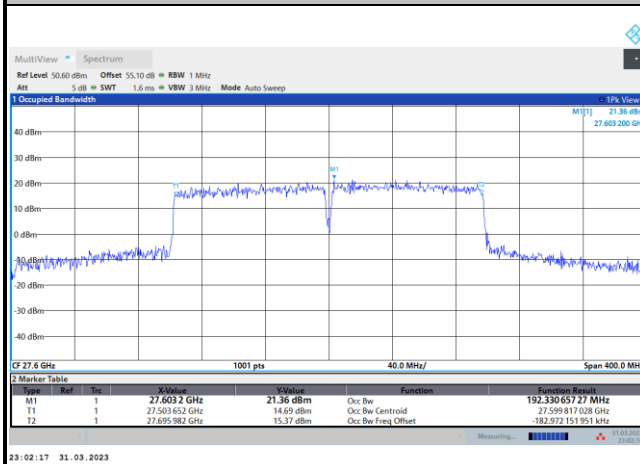




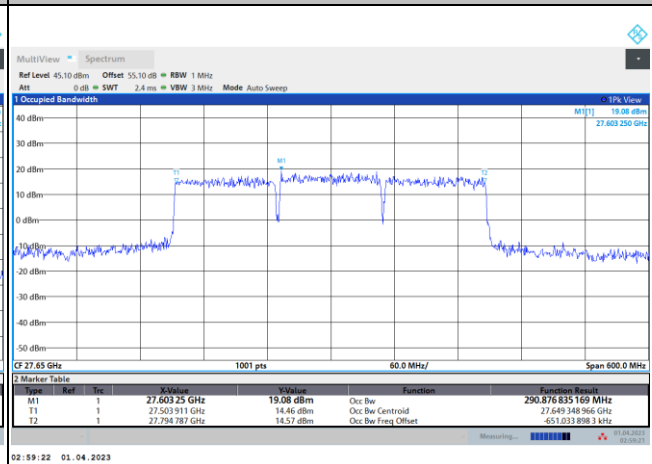
CP-OFDM Module A

NR Band n261

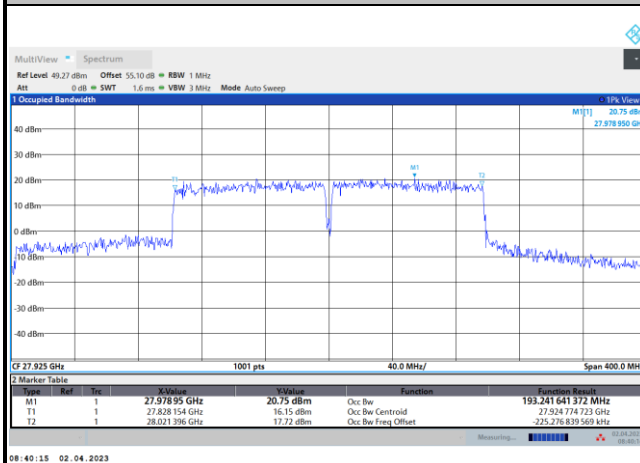
Lowest Channel / 200MHz / QPSK



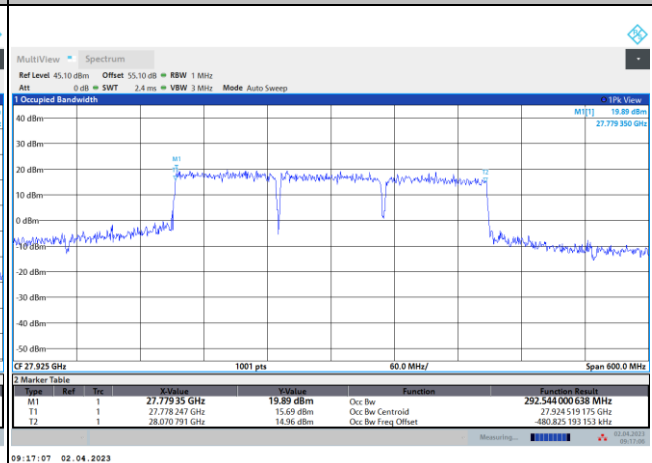
Lowest Channel / 300MHz / QPSK



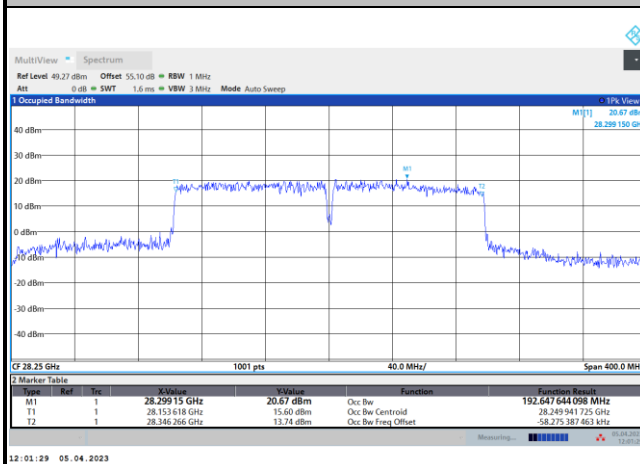
Middle Channel / 200MHz / QPSK



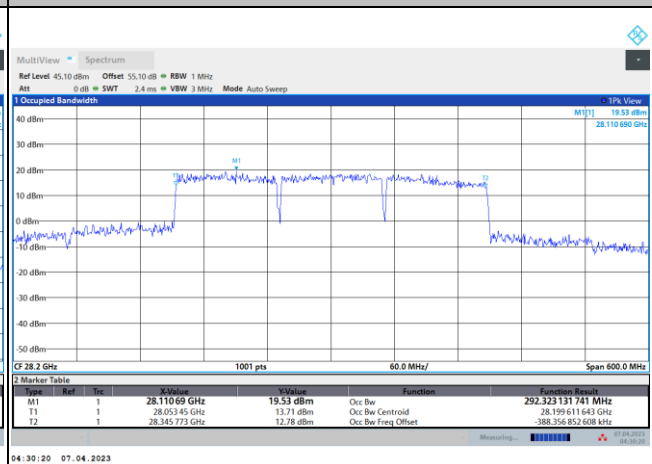
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / QPSK



Highest Channel / 300MHz / QPSK

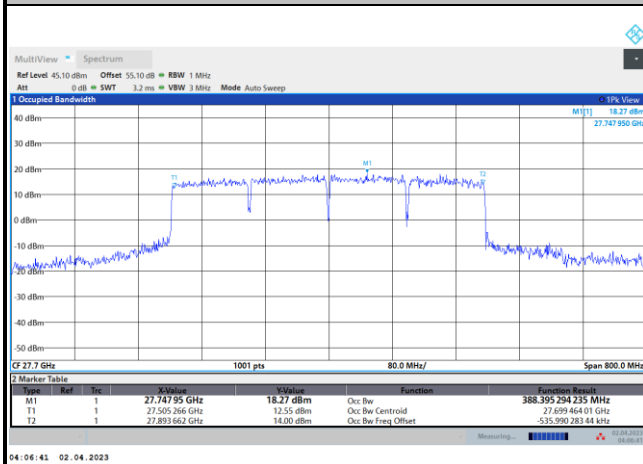




CP-OFDM Module A

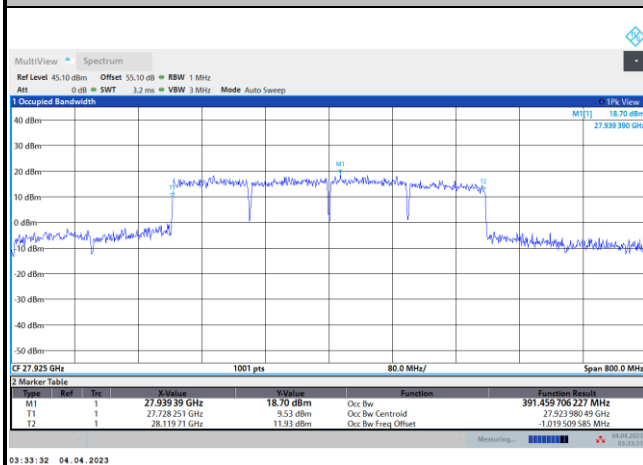
NR Band n261

Lowest Channel / 400MHz / QPSK



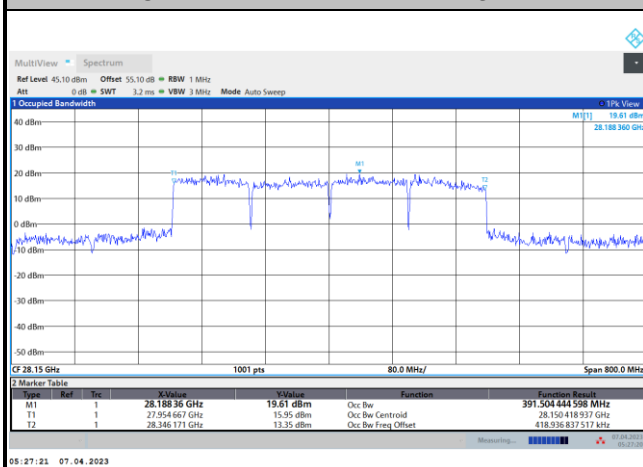
intentionally blank

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 n261 : 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	-5.70	-5.99	-6.58	-5.66	-5.96	-6.26	-12.02	-16.15	-17.61
	>10%OB	≤-13	-22.90	-24.76	-22.88	-23.76	-25.88	-25.80	-16.59	-17.33	-18.04
High CH	0~10%OB	≤-5	-5.47	-5.81	-8.79	-5.61	-5.76	-10.67	-11.15	-14.21	-17.06
	>10%OB	≤-13	-21.66	-21.09	-23.42	-24.18	-24.59	-24.43	-14.73	-18.80	-20.92
Result			Compliance								

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-14.85	-15.36	-19.51	-16.86	-18.42	-22.83
	>10%OB	≤-13	-13.25	-13.72	-13.94	-13.73	-14.32	-14.84
High CH	0~10%OB	≤-5	-13.77	-16.97	-20.10	-16.58	-19.41	-19.12
	>10%OB	≤-13	-13.69	-14.14	-14.76	-13.20	-13.38	-13.85
Result			Compliance					

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-5.55	-5.59	-12.02
	>10%OB	≤-13	-22.12	-25.50	-14.09
High CH	0~10%OB	≤-5	-6.32	-6.52	-14.43
	>10%OB	≤-13	-20.23	-24.49	-14.97
Result			Compliance		

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-13.03	-17.70
	>10%OB	≤-13	-13.49	-14.11
High CH	0~10%OB	≤-5	-14.30	-28.97
	>10%OB	≤-13	-13.45	-16.92
Result			Compliance	

Mode			DFT-s-OFDM Module A NR Band n261 : 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	-12.64	-13.54	-16.70	-14.10	-14.67	-19.64	-23.53	-22.71	-26.49
	>10%OB	≤-13	-18.81	-21.80	-27.26	-22.43	-25.16	-25.78	-27.36	-28.82	-29.76
High CH	0~10%OB	≤-5	-11.07	-13.23	-18.79	-16.44	-19.73	-21.15	-23.15	-25.88	-27.06
	>10%OB	≤-13	-16.97	-22.19	-25.72	-21.23	-23.43	-24.80	-27.16	-29.08	-29.39
Result			Compliance								

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-25.26	-23.72	-27.34	-25.49	-23.33	-29.72
	>10%OB	≤-13	-26.91	-27.17	-30.74	-25.65	-25.38	-31.07
High CH	0~10%OB	≤-5	-24.77	-23.54	-28.56	-22.13	-25.56	-28.16
	>10%OB	≤-13	-26.21	-27.13	-28.98	-22.35	-26.51	-29.94
Result			Compliance					

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-15.38	-16.05	-19.19
	>10%OB	≤-13	-19.53	-23.40	-23.45
High CH	0~10%OB	≤-5	-13.61	-17.10	-18.94
	>10%OB	≤-13	-17.80	-19.84	-21.55
Result			Compliance		

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-21.76	-21.32
	>10%OB	≤-13	-24.92	-25.45
High CH	0~10%OB	≤-5	-17.33	-19.11
	>10%OB	≤-13	-19.03	-19.35
Result			Compliance	