

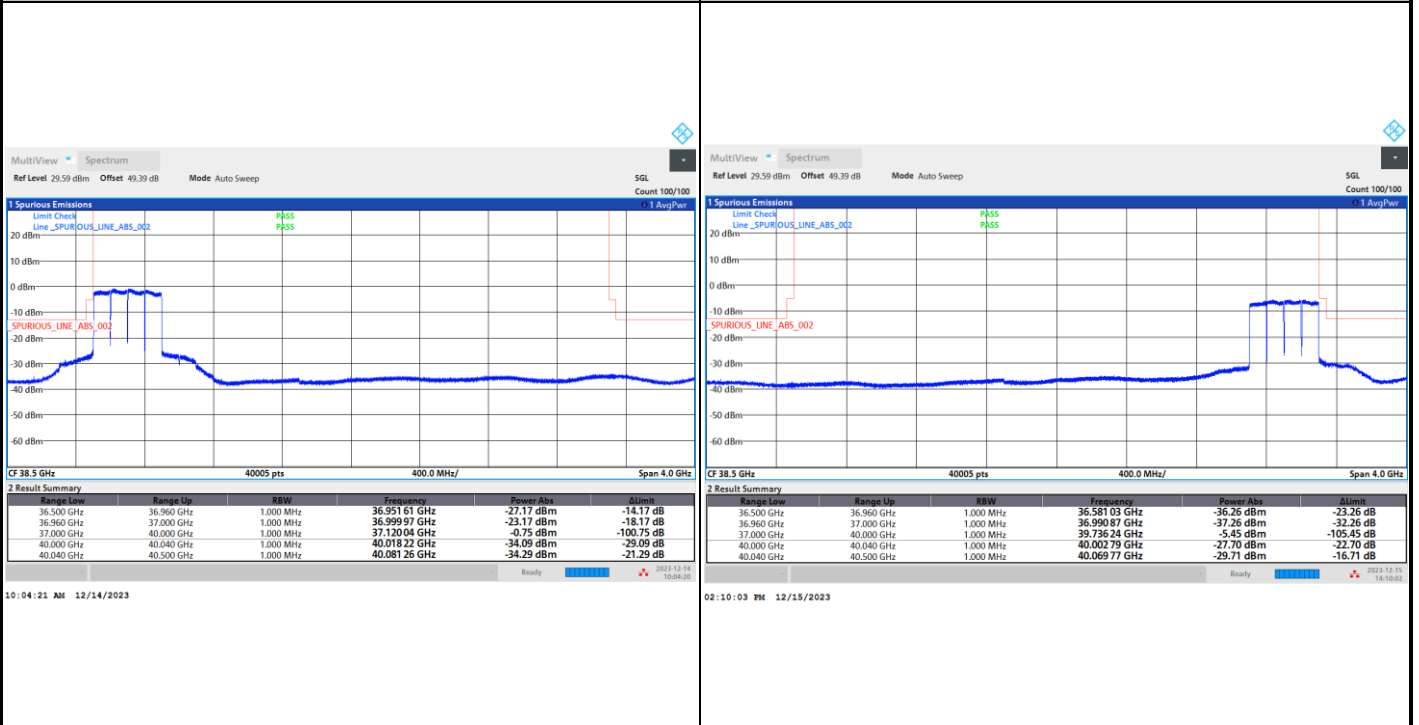


CP-OFDM Module B

NR Band n260 / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB





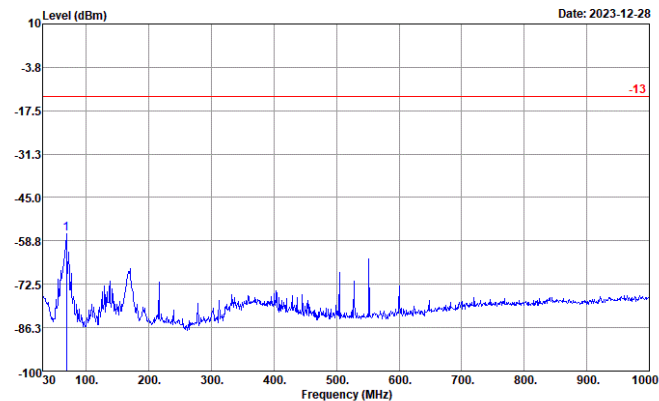
Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

Only the noise floor is reported.

NR Band n260 (30MHz-1GHz)

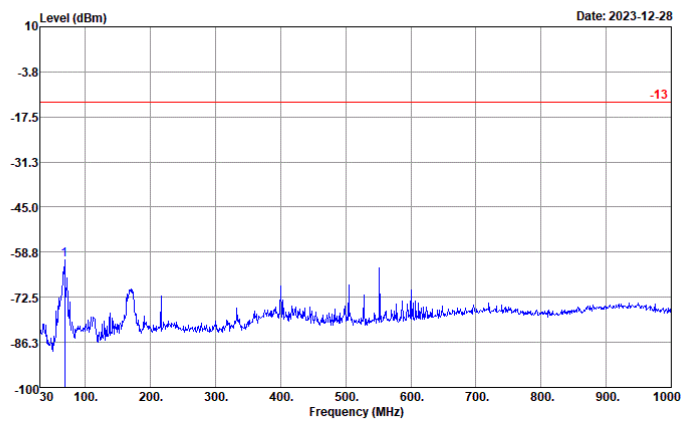
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 3N2327
 : n260 MB

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1	67.83	-56.54	-43.54 -13.00

Vertical



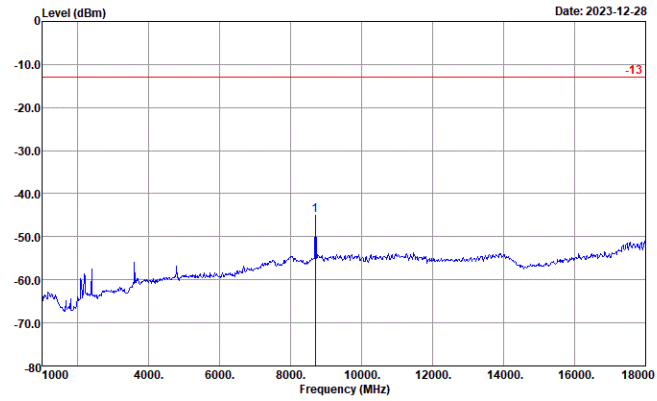
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 3N2327
 : n260 MB

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1	67.83	-61.08	-48.08 -13.00



NR Band n260 (1GHz-18GHz)

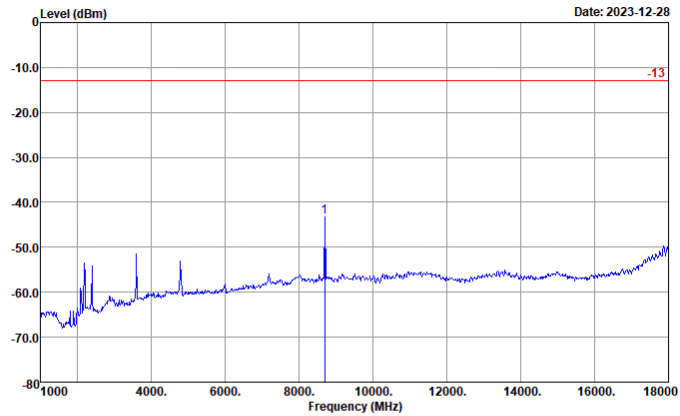
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 3N2327
 : n260 MB

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	8701.00	-45.00	-32.00 -13.00

Vertical



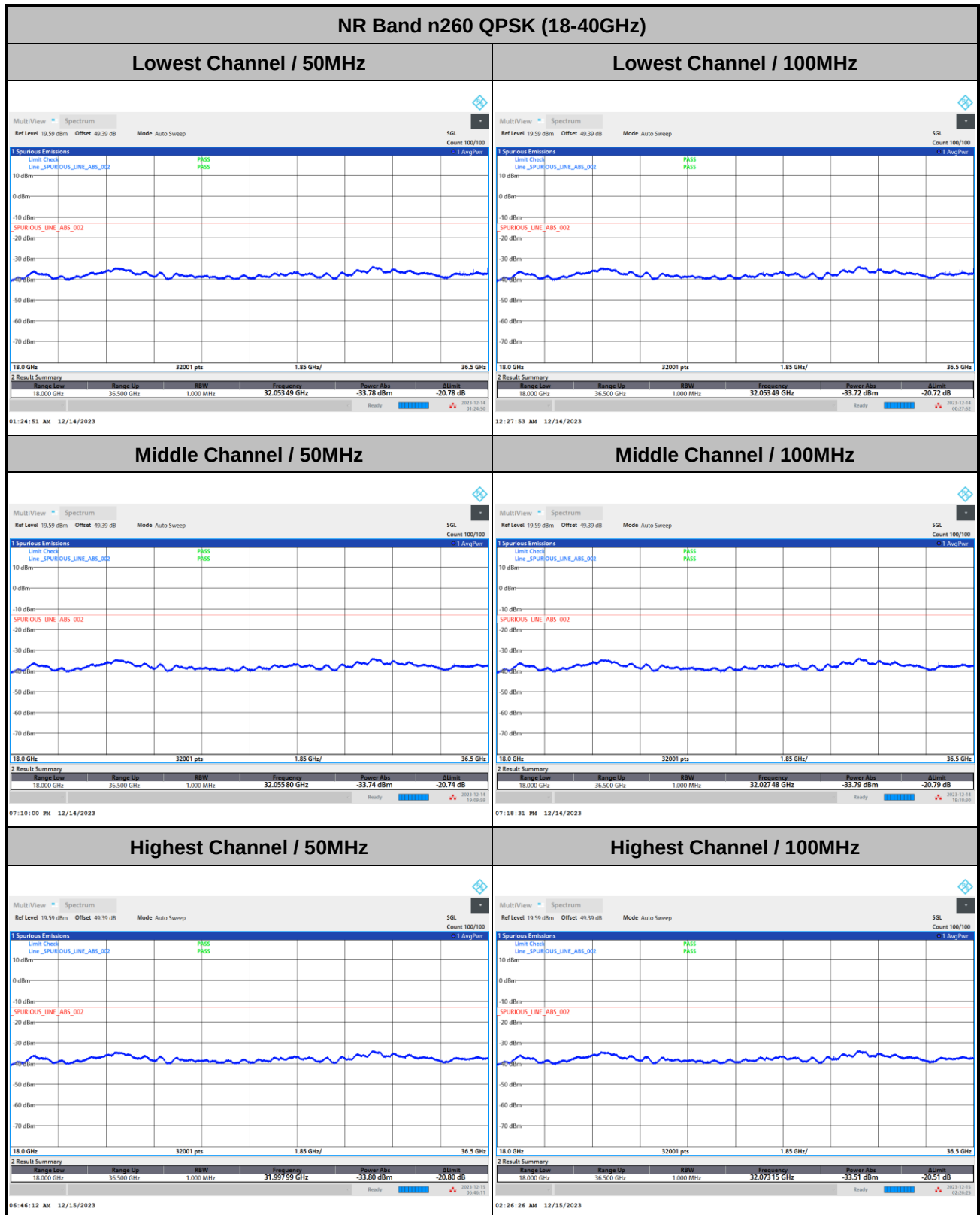
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 3N2327
 : n260 MB

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	8701.00	-43.22	-30.22 -13.00



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

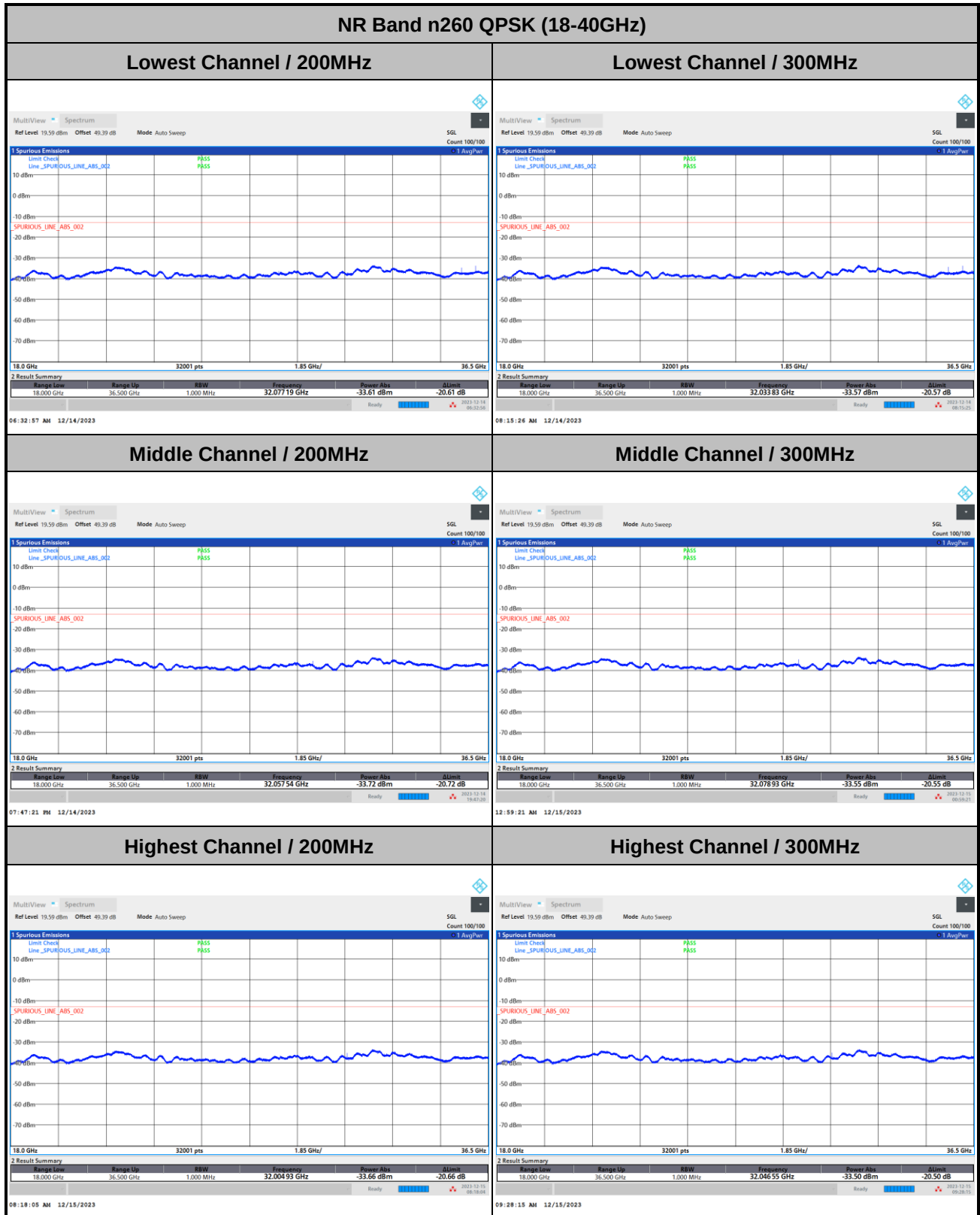
DFT-s-OFDM Module B



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.



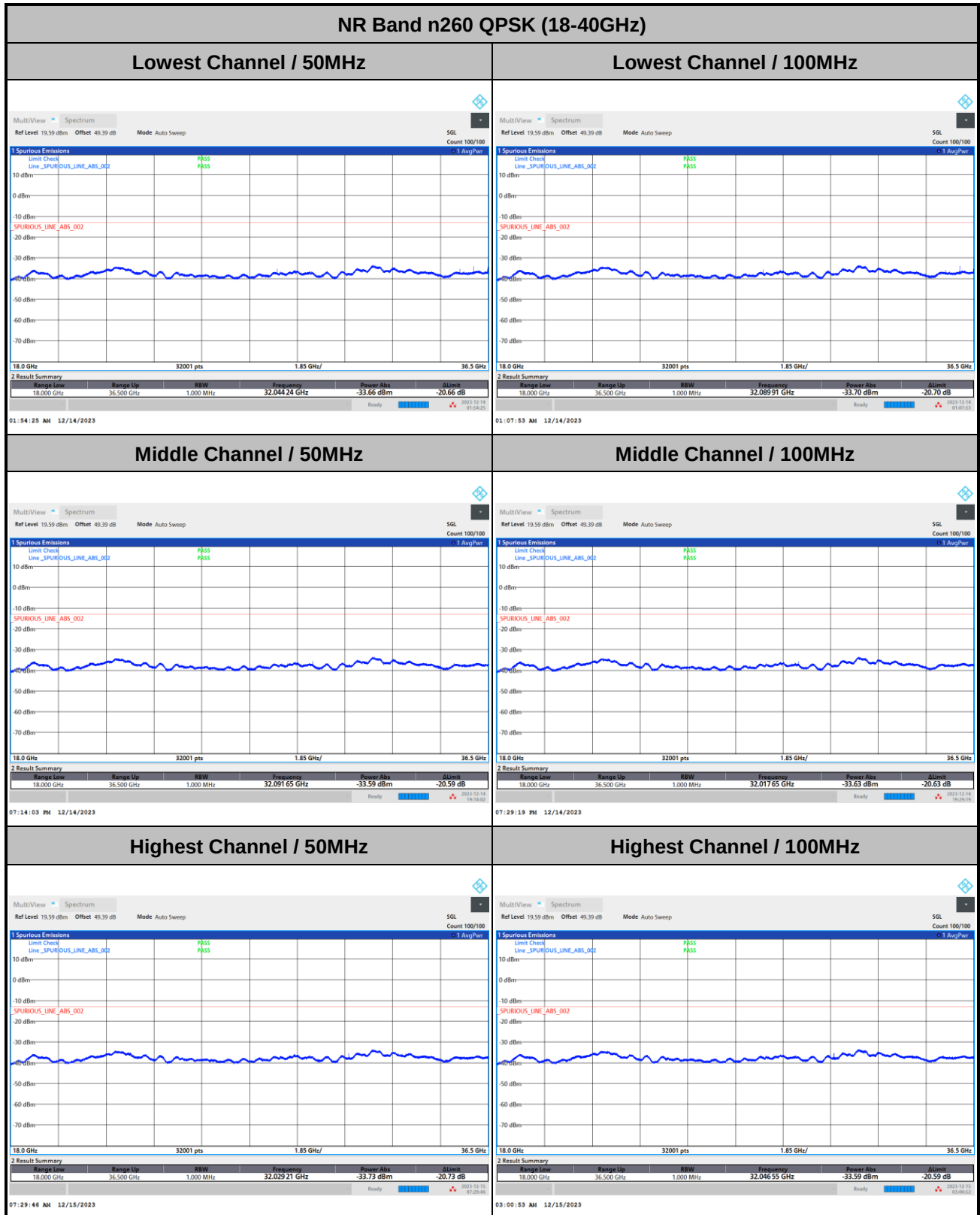
DFT-s-OFDM Module B

NR Band n260 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.



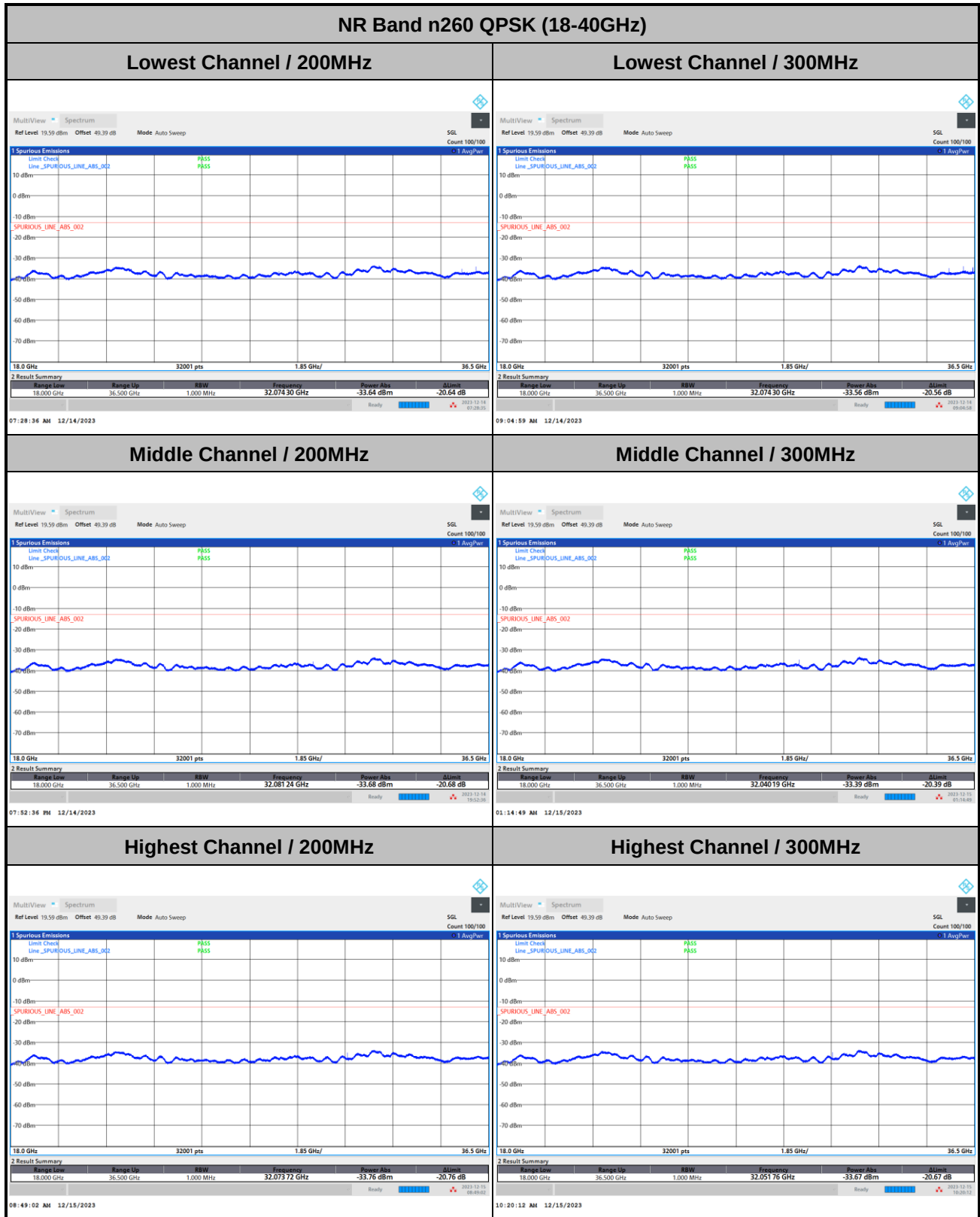
CP-OFDM Module B



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



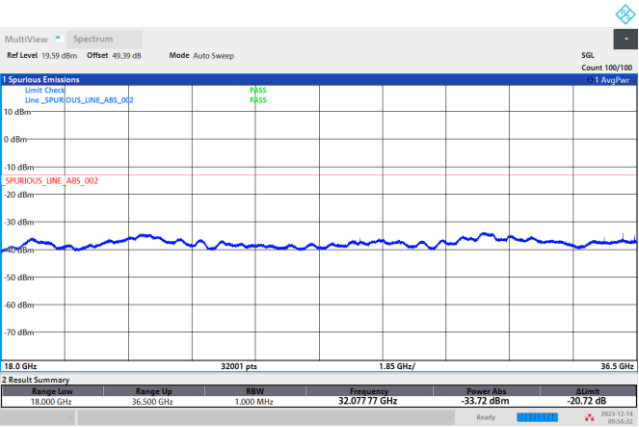
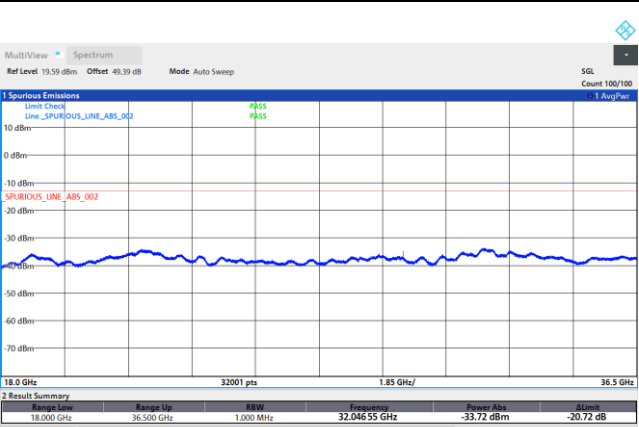
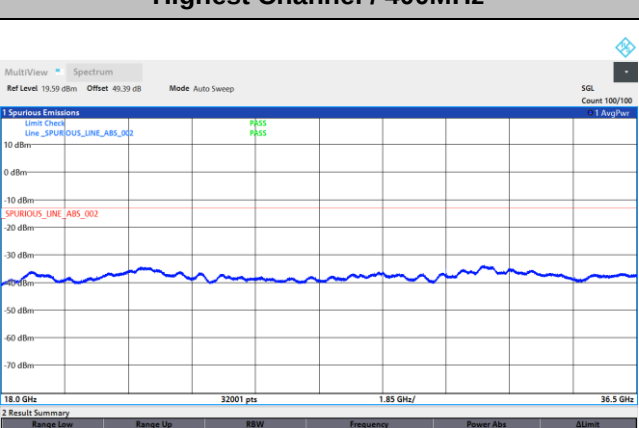
CP-OFDM Module B



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

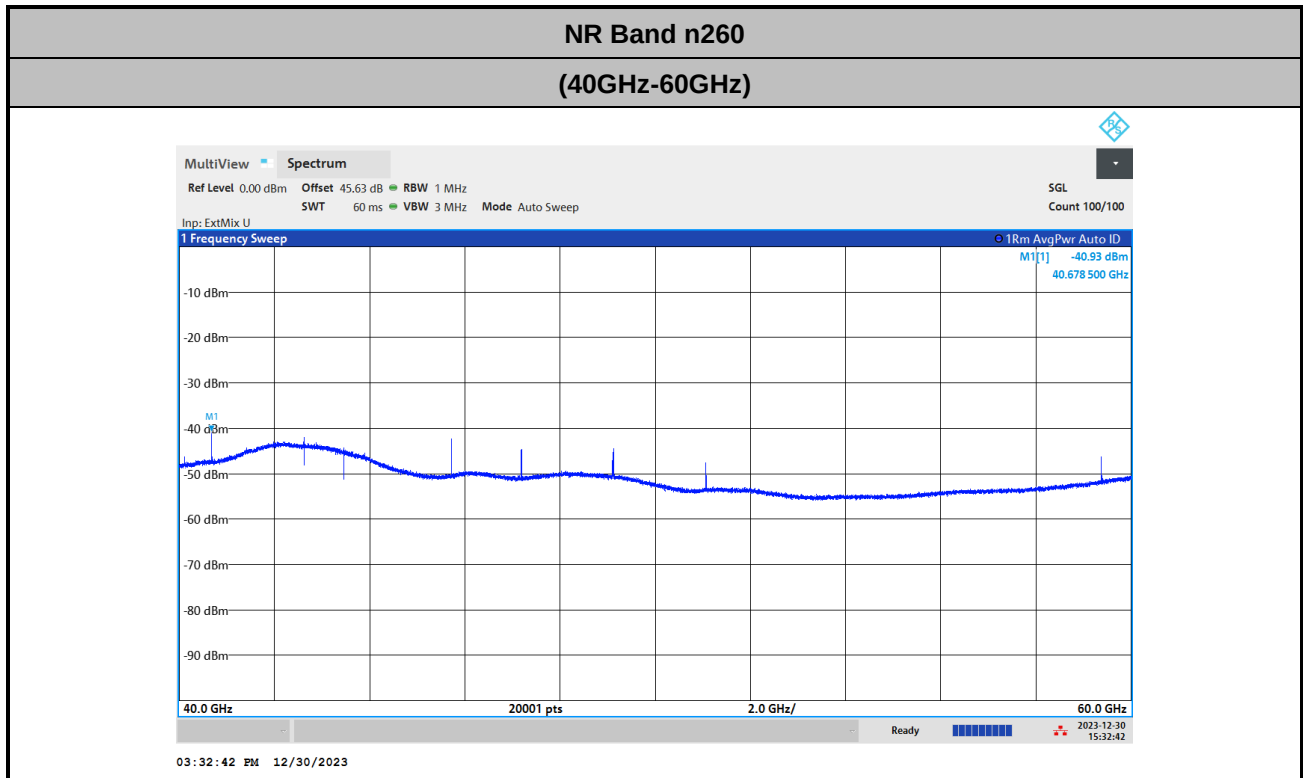


CP-OFDM Module B

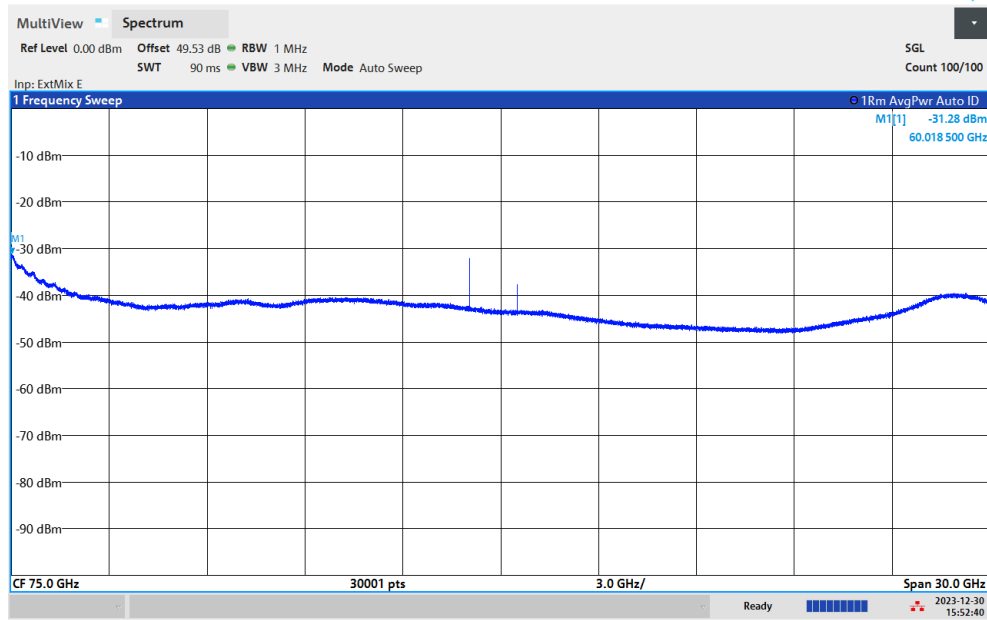
NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	intentionally blank
Middle Channel / 400MHz	
	intentionally blank
Highest Channel / 400MHz	
	intentionally blank

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.



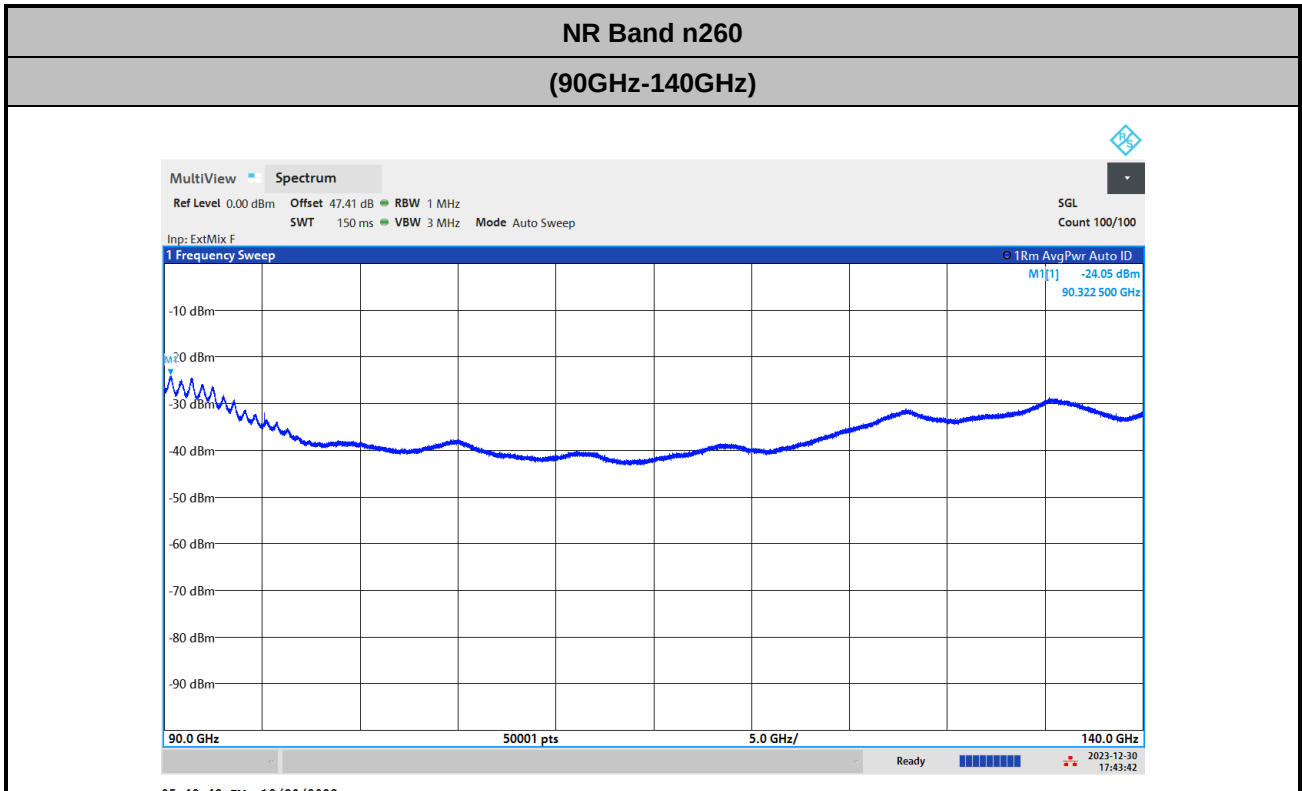
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 43 + 0.43 + 107 + 20\log(1) - 104.8 = 45.63(\text{dB}) \end{aligned}$$

NR Band n260
(60GHz-90GHz)


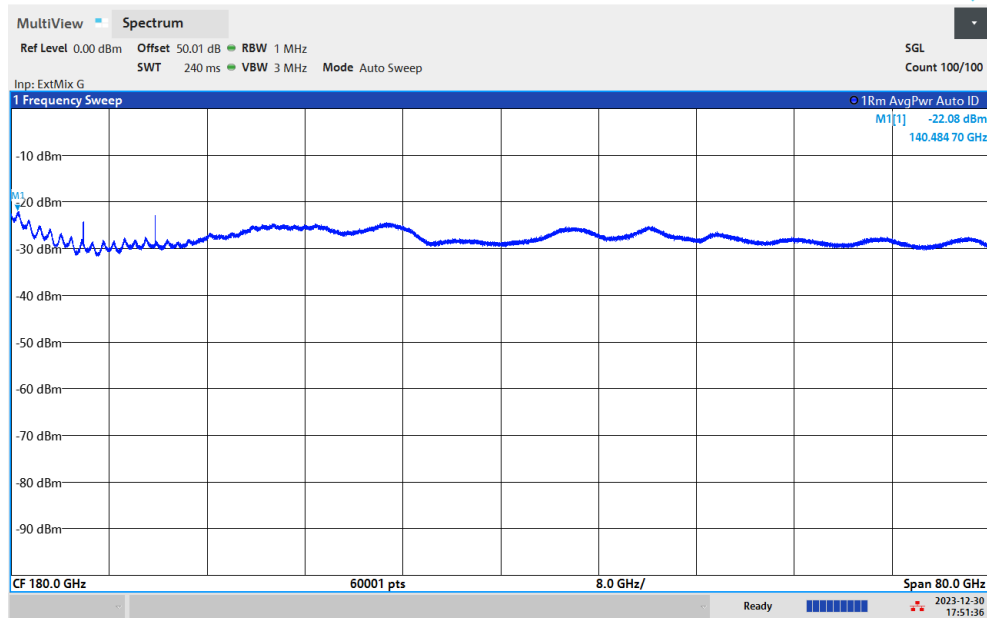
03:52:40 PM 12/30/2023

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

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



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

NR Band n260
(140GHz-200GHz)


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

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	38.4997443	197.800	5.138	Pass
40	Normal Voltage	38.4998501	92.000	2.390	
30	Normal Voltage	38.4999001	42.000	1.091	
20(Ref.)	Normal Voltage	38.4999421	0.000	0.000	
10	Normal Voltage	38.500042	-99.900	2.595	
0	Normal Voltage	38.50005	-107.900	2.803	
-10	Normal Voltage	38.5000559	-113.800	2.956	
-20	Normal Voltage	38.5000639	-121.800	3.164	
-30	Normal Voltage	38.5000714	-129.300	3.358	
20	Maximum Voltage	38.499956	-13.900	0.361	
20	Normal Voltage	38.4999481	-6.000	0.156	
20	Battery End Point	38.4999401	2.000	0.052	

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	45.87	45.95	45.78	91.05	91.01	91.03	190.82	190.93	190.61
Middle CH	45.72	45.99	45.75	90.99	90.98	90.96	191.15	191.25	190.78
Highest CH	45.83	45.97	45.78	91.17	91.10	91.04	190.84	190.77	190.87

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	290.16	289.97	289.76	388.34	388.27	388.32
Middle CH	290.10	290.23	289.46	389.04	389.29	388.83
Highest CH	289.82	289.61	289.09	388.64	388.80	388.43

Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.03	93.67	193.61
Middle CH	45.88	93.90	194.24
Highest CH	45.75	93.77	193.49

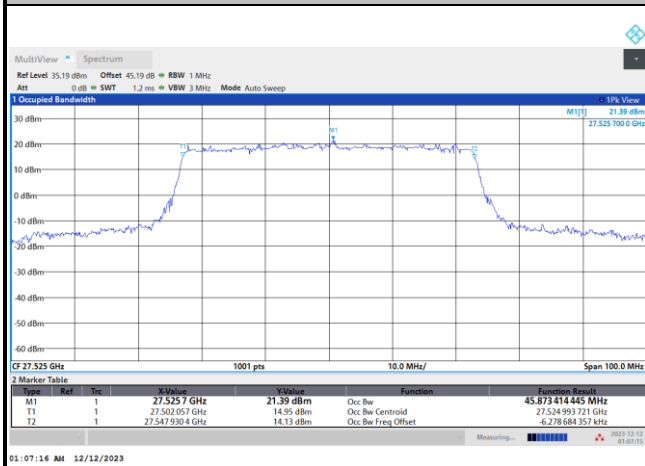
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	293.34	390.71
Middle CH	294.10	391.82
Highest CH	294.56	393.62



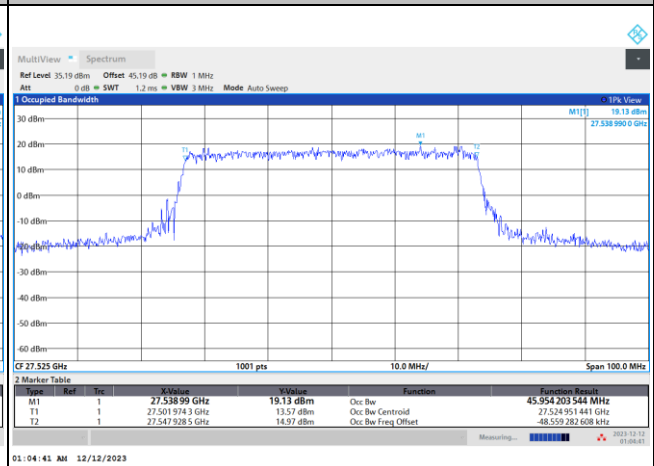
DFT-s-OFDM Module A

NR Band n261

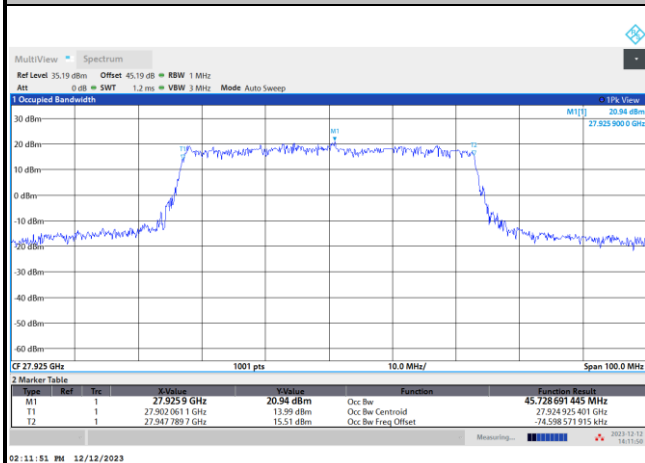
Lowest Channel / 50MHz / QPSK



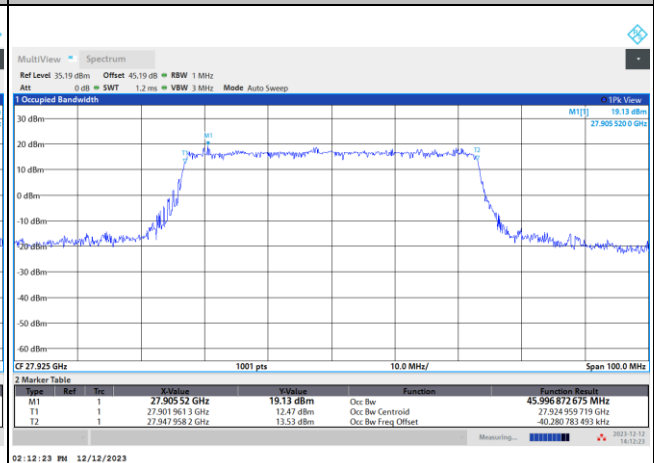
Lowest Channel / 50MHz / 16QAM



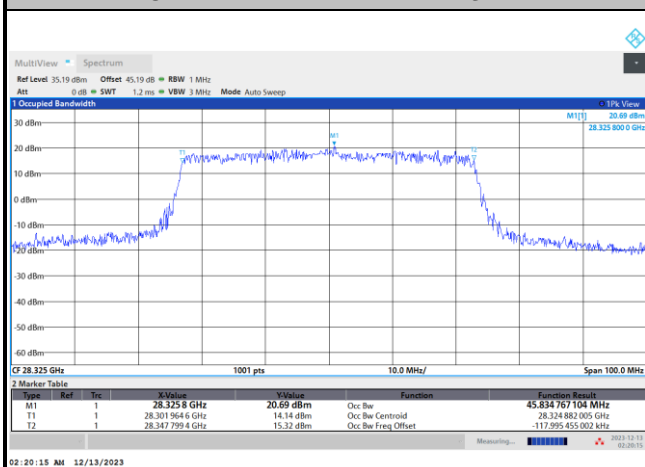
Middle Channel / 50MHz / QPSK



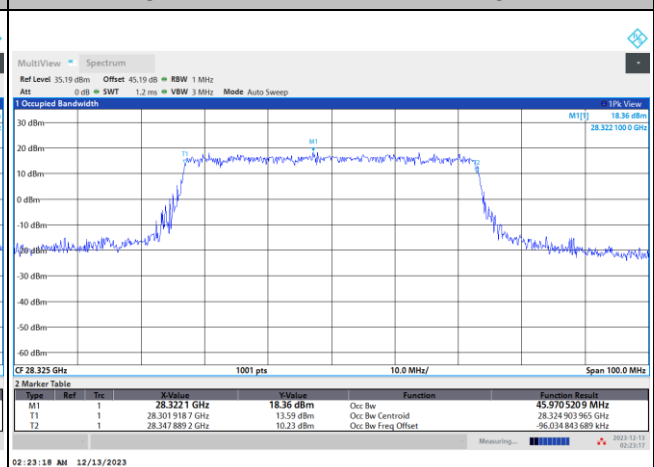
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

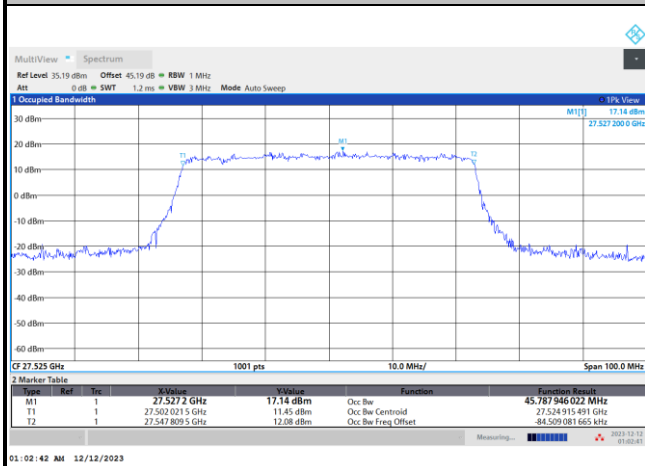




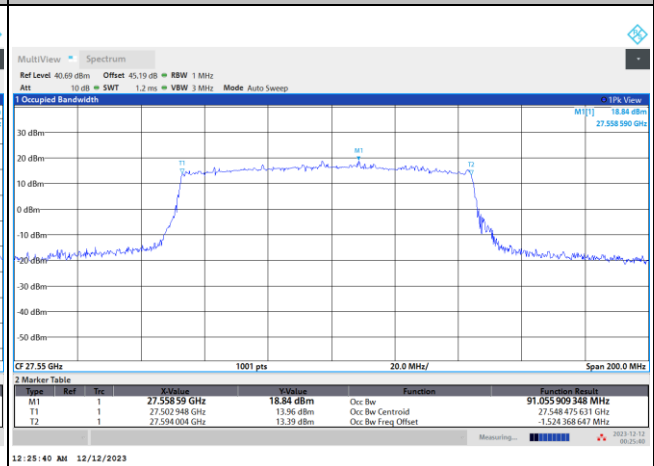
DFT-s-OFDM Module A

NR Band n261

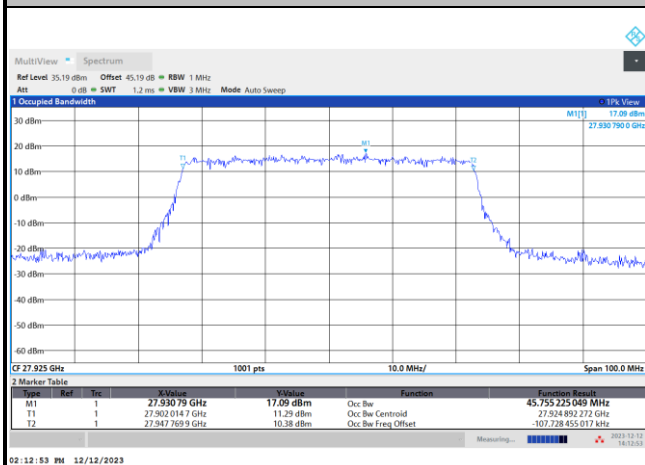
Lowest Channel / 50MHz / 64QAM



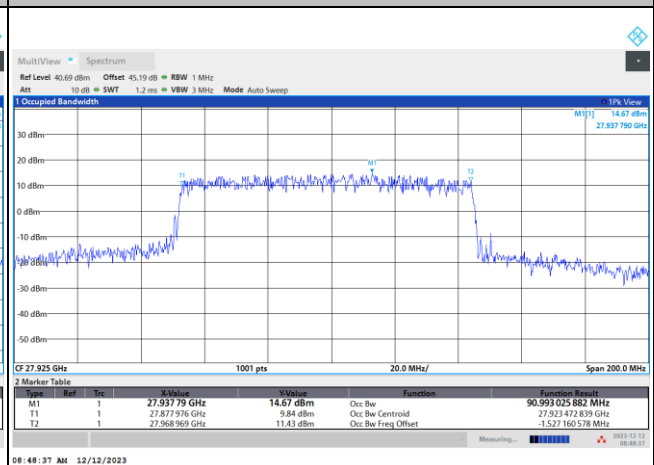
Lowest Channel / 100MHz / QPSK



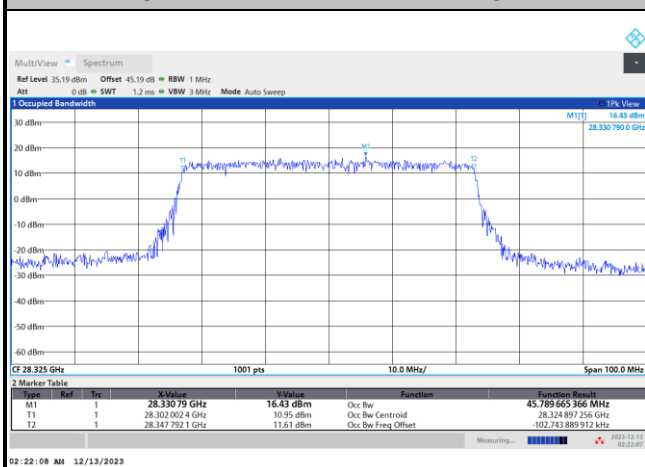
Middle Channel / 50MHz / 64QAM



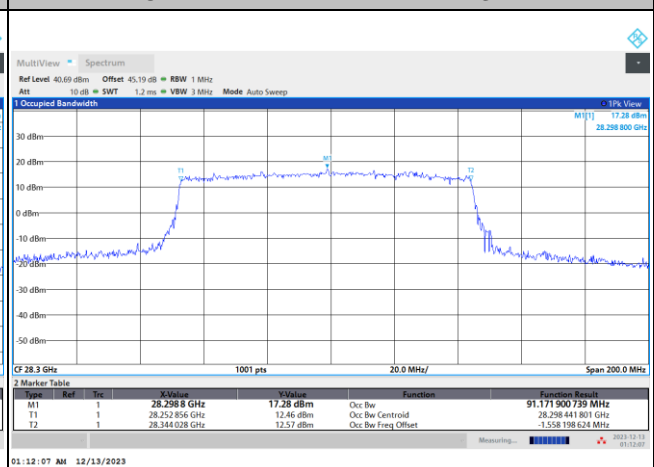
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

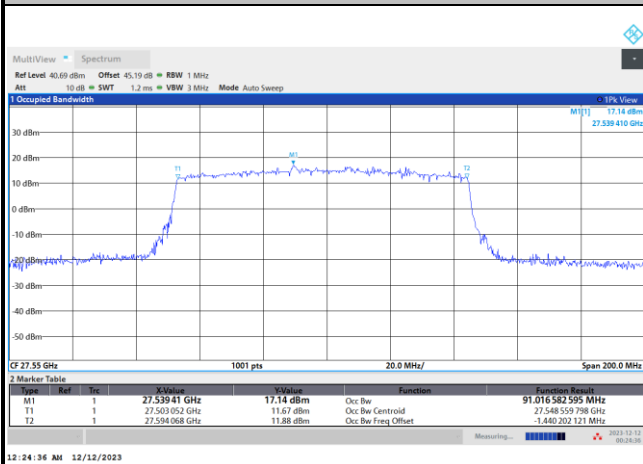




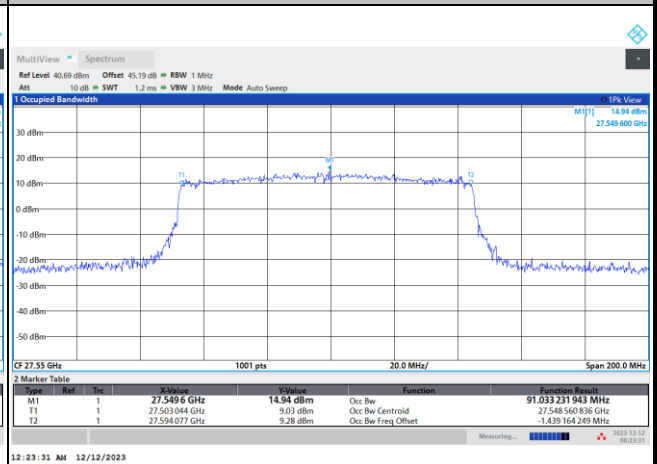
DFT-s-OFDM Module A

NR Band n261

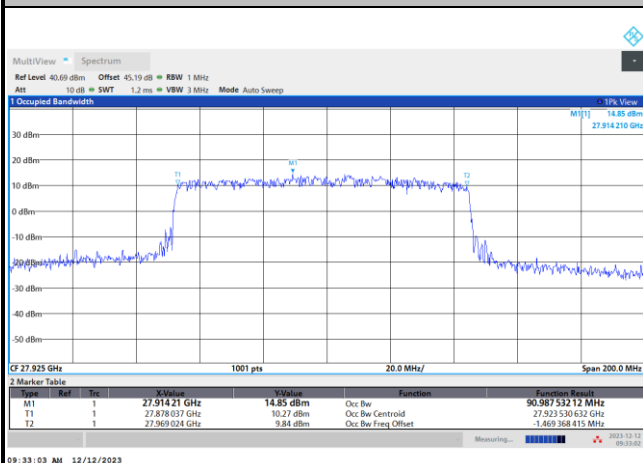
Lowest Channel / 100MHz / 16QAM



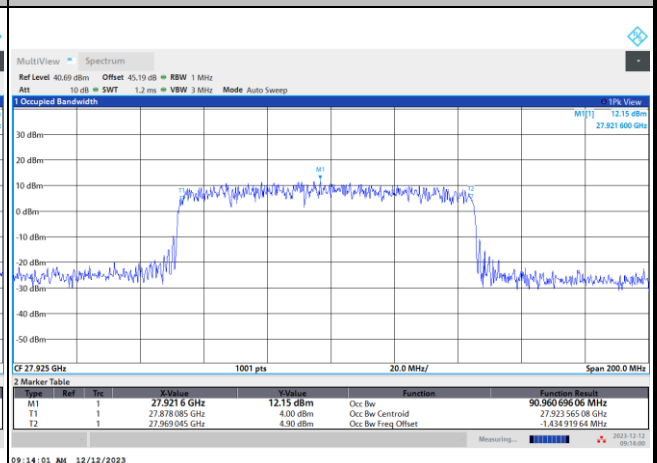
Lowest Channel / 100MHz / 64QAM



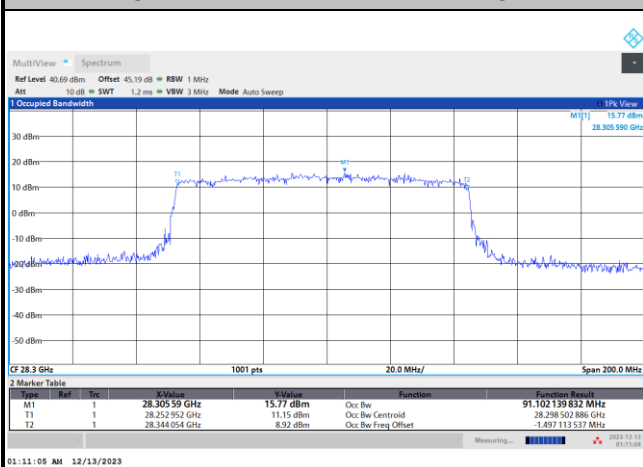
Middle Channel / 100MHz / 16QAM



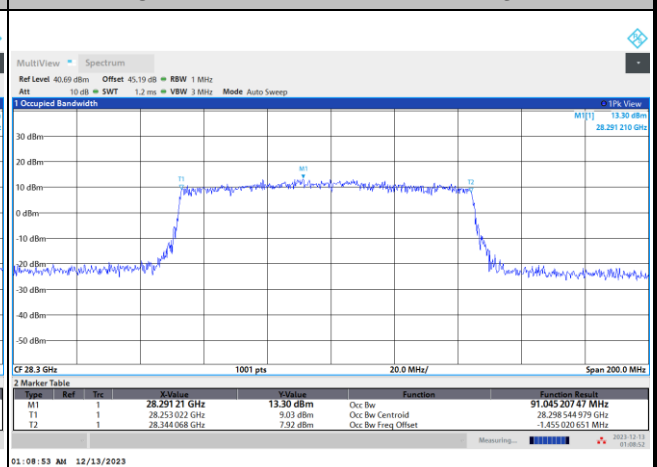
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

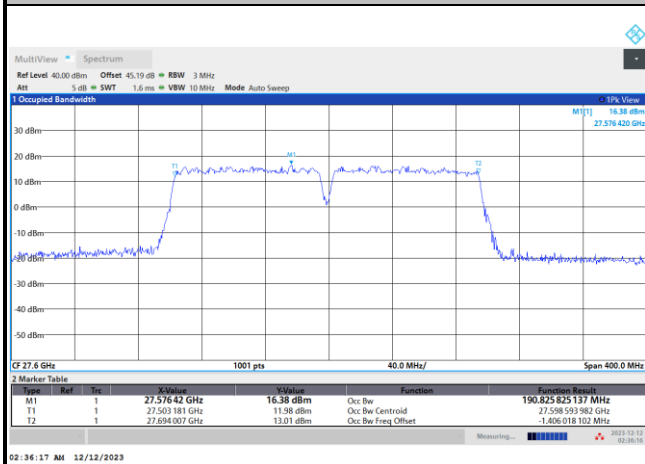




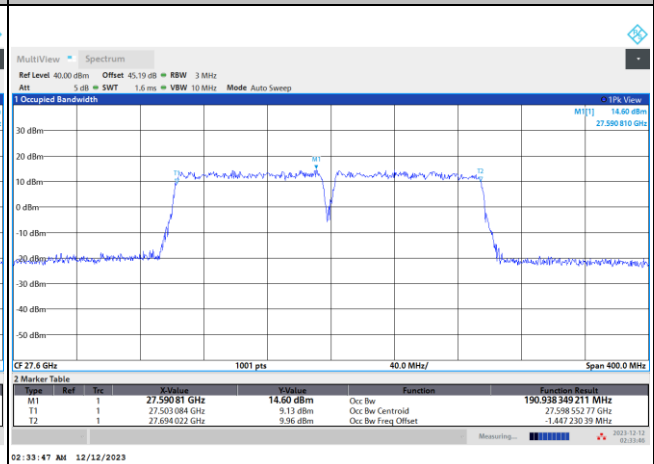
DFT-s-OFDM Module A

NR Band n261

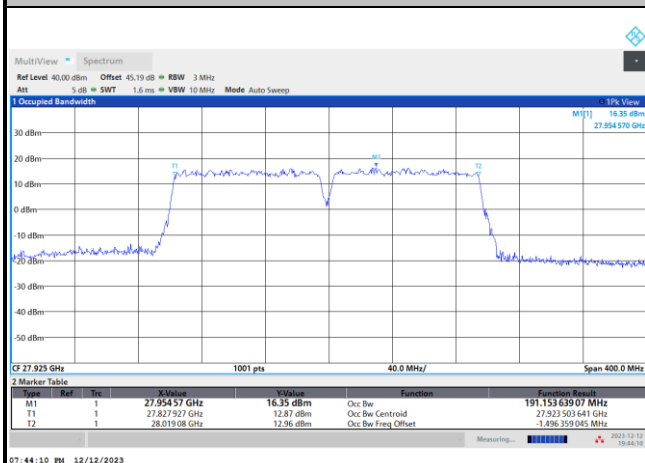
Lowest Channel / 200MHz / QPSK



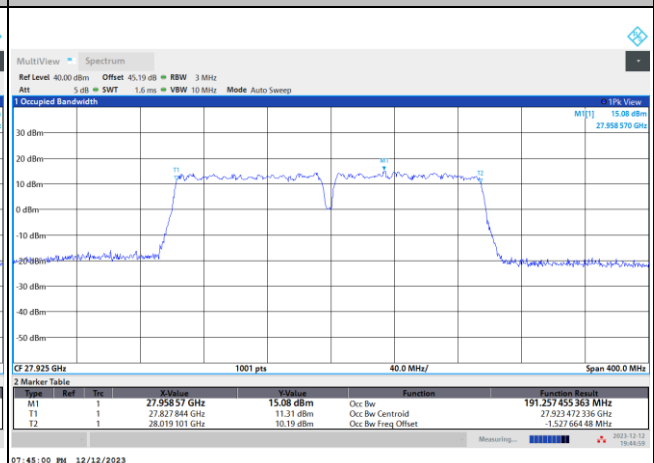
Lowest Channel / 200MHz / 16QAM



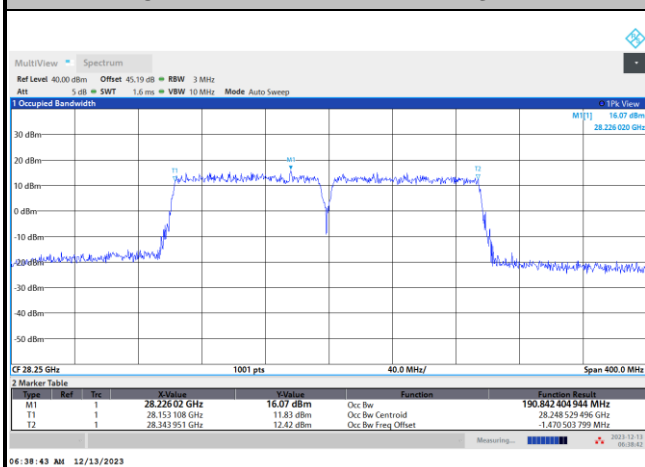
Middle Channel / 200MHz / QPSK



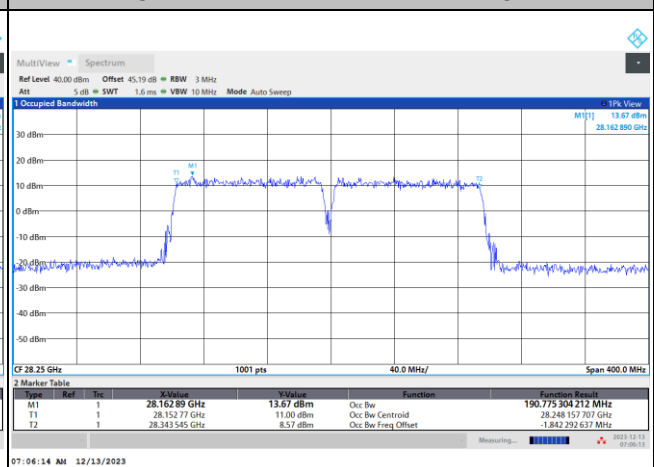
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

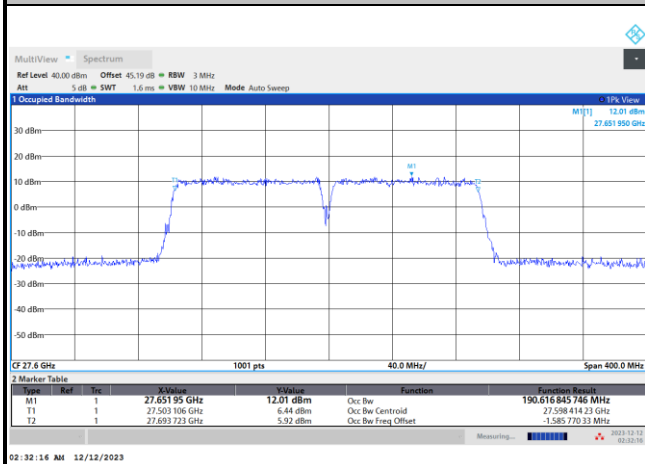




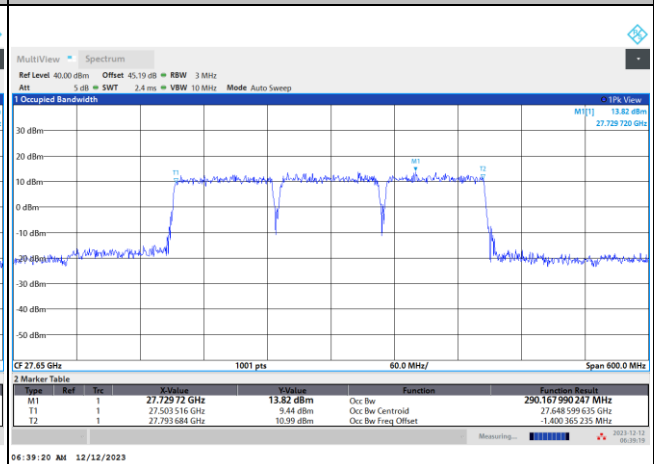
DFT-s-OFDM Module A

NR Band n261

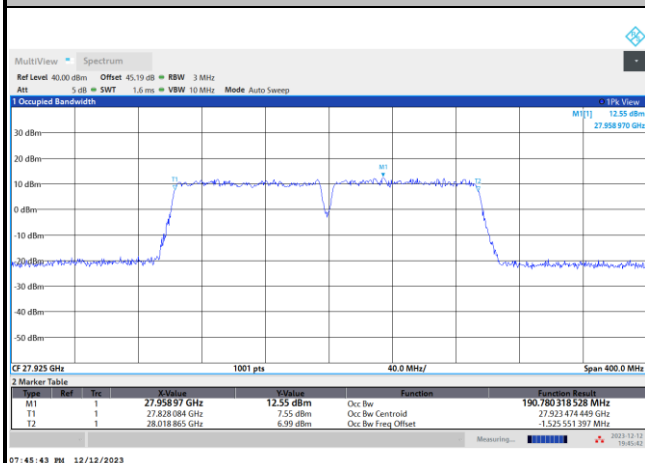
Lowest Channel / 200MHz / 64QAM



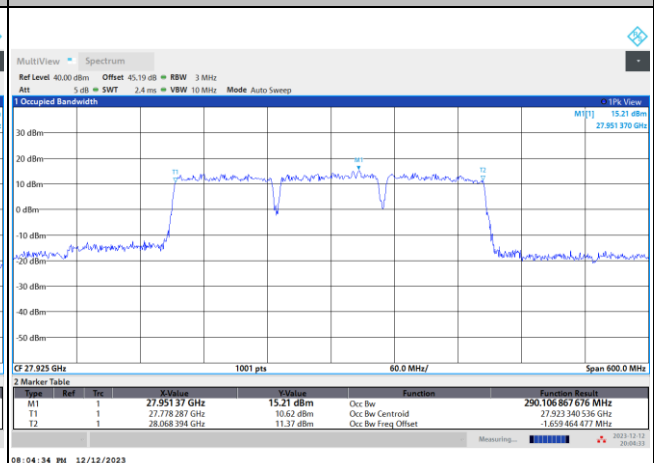
Lowest Channel / 300MHz / QPSK



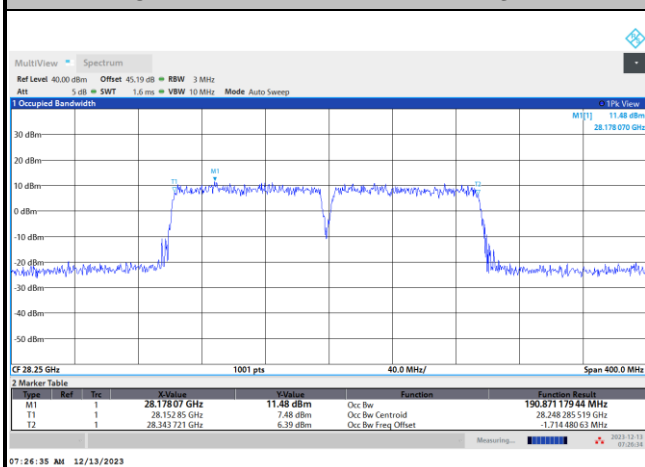
Middle Channel / 200MHz / 64QAM



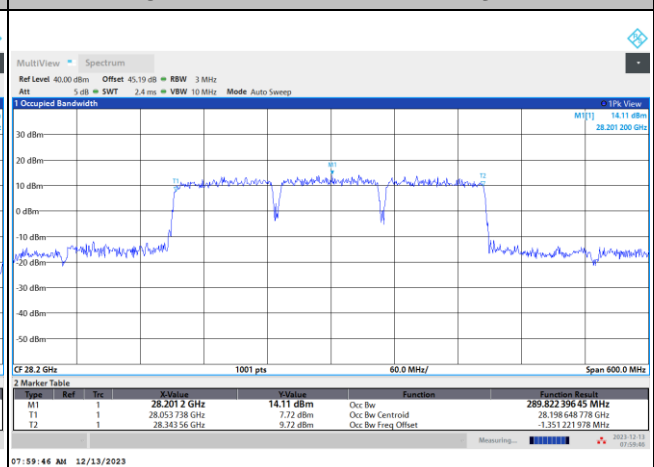
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

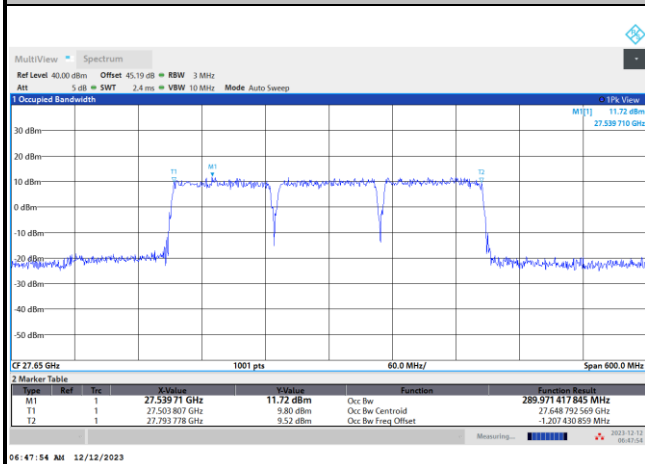




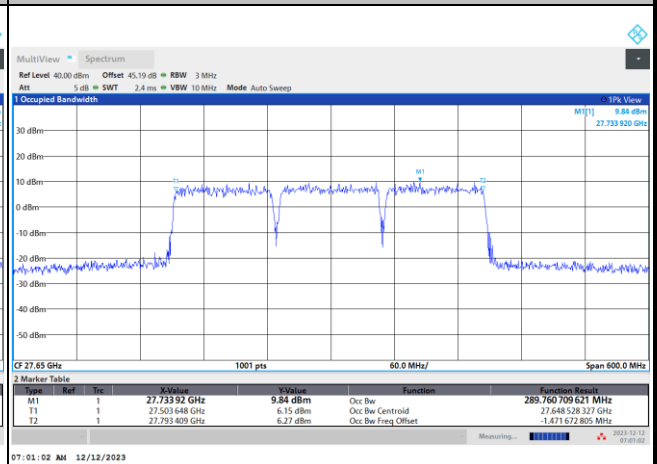
DFT-s-OFDM Module A

NR Band n261

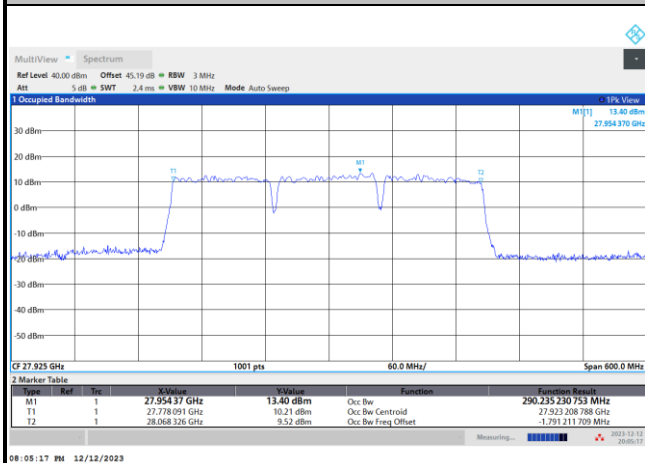
Lowest Channel / 300MHz / 16QAM



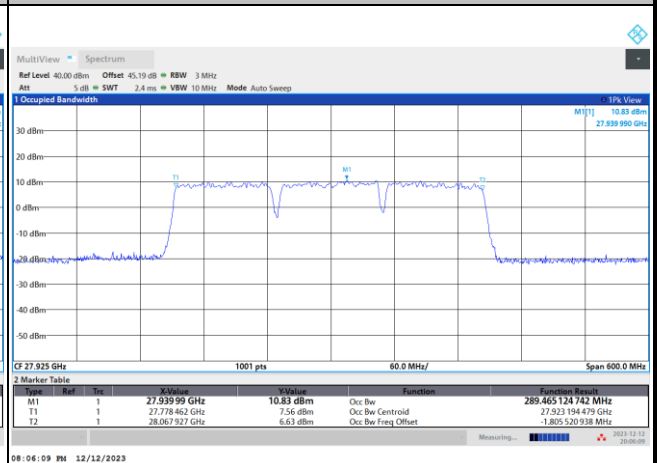
Lowest Channel / 300MHz / 64QAM



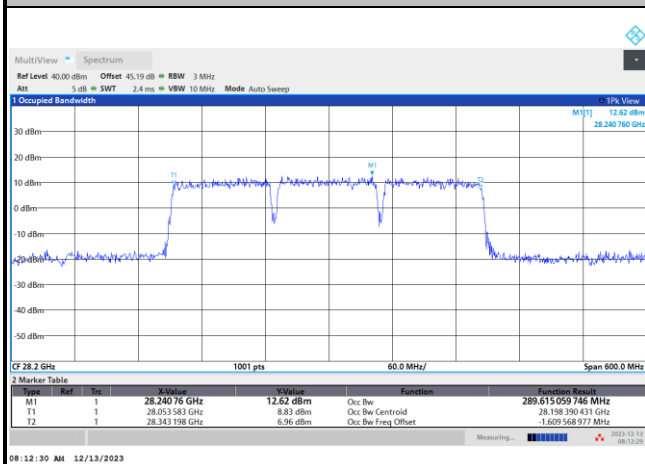
Middle Channel / 300MHz / 16QAM



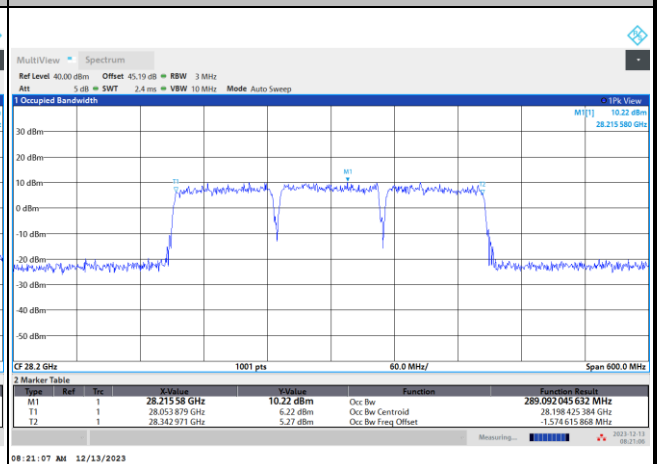
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM

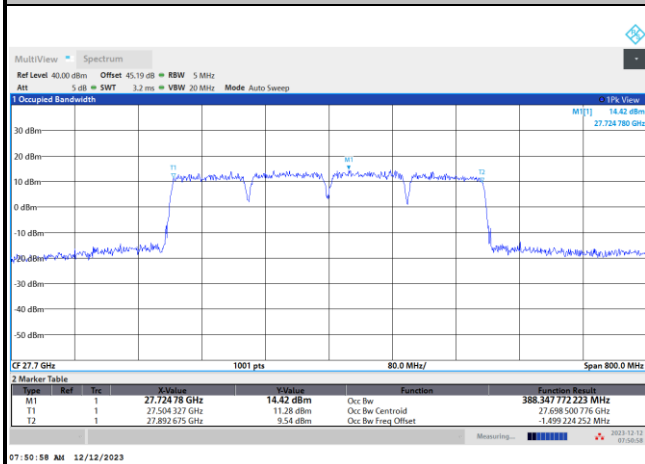




DFT-s-OFDM Module A

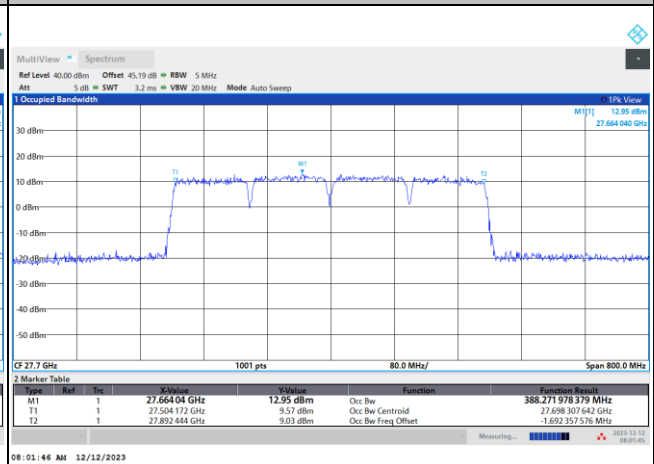
NR Band n261

Lowest Channel / 400MHz / QPSK



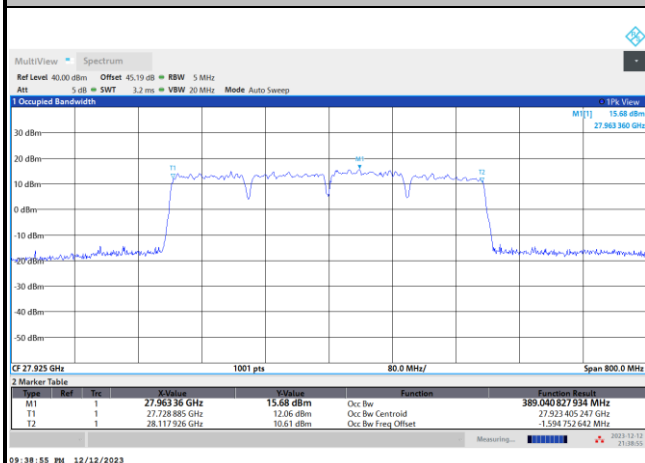
07:50:58 AM 12/12/2023

Lowest Channel / 400MHz / 16QAM



08:01:46 AM 12/12/2023

Middle Channel / 400MHz / QPSK



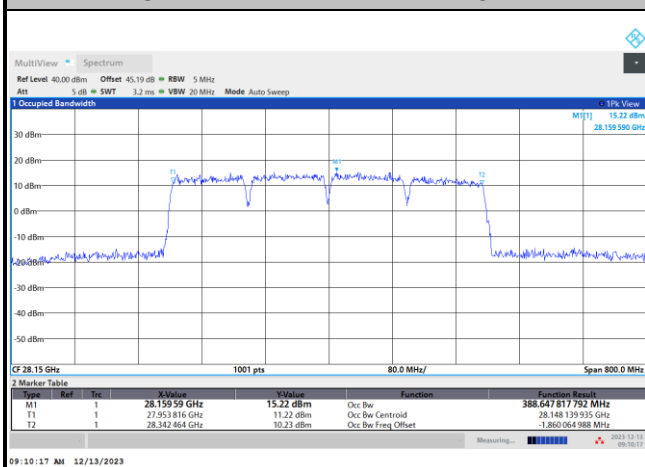
09:38:55 PM 12/12/2023

Middle Channel / 400MHz / 16QAM



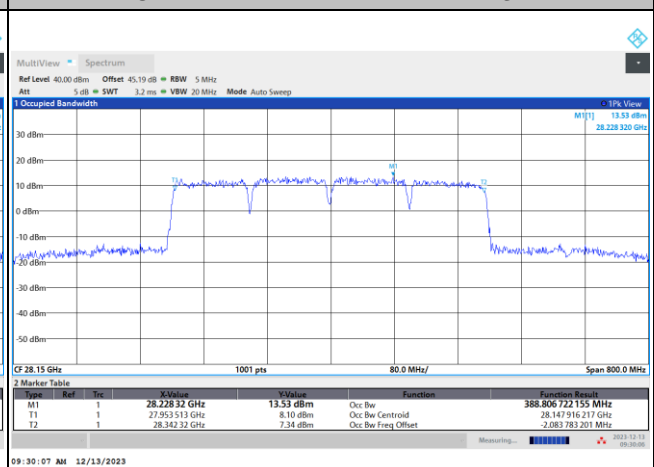
09:40:16 PM 12/12/2023

Highest Channel / 400MHz / QPSK



09:10:17 AM 12/13/2023

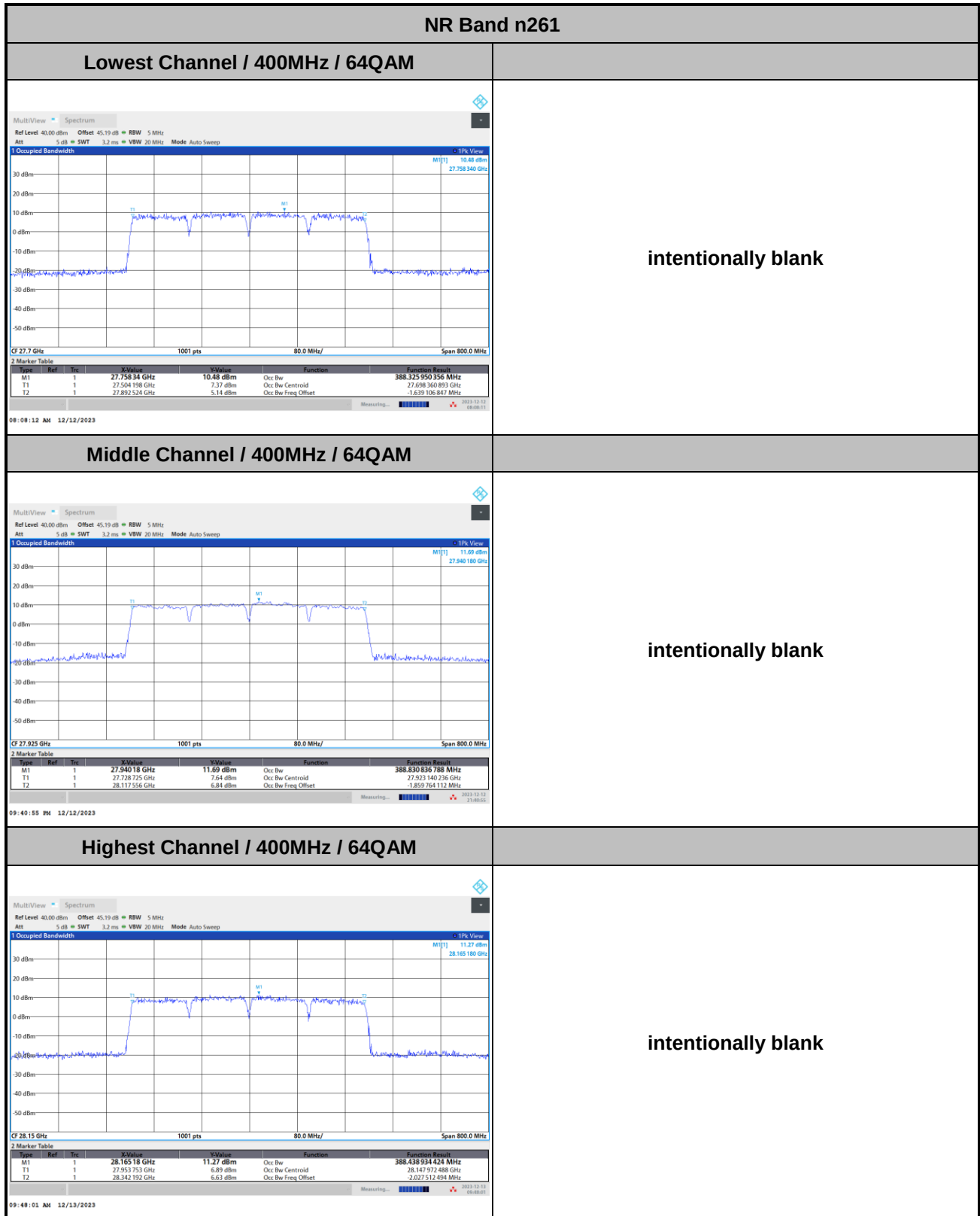
Highest Channel / 400MHz / 16QAM



09:30:07 AM 12/13/2023



DFT-s-OFDM Module A

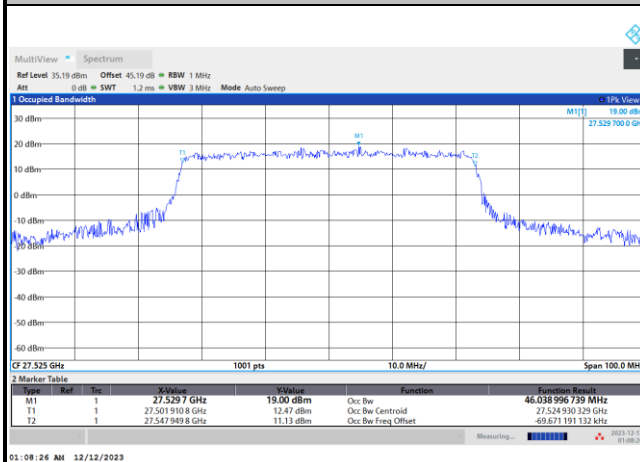




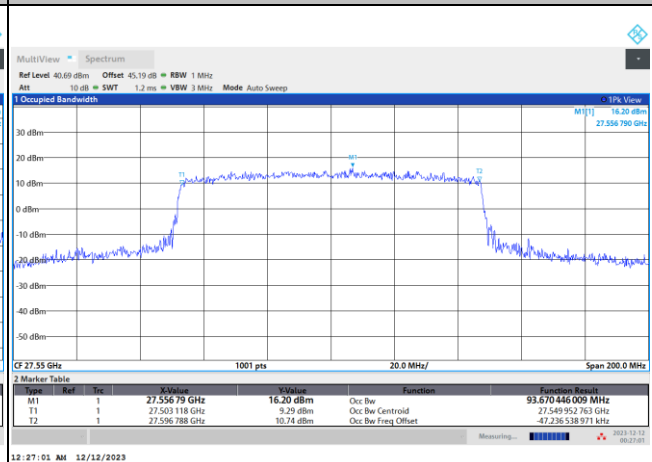
CP-OFDM Module A

NR Band n261

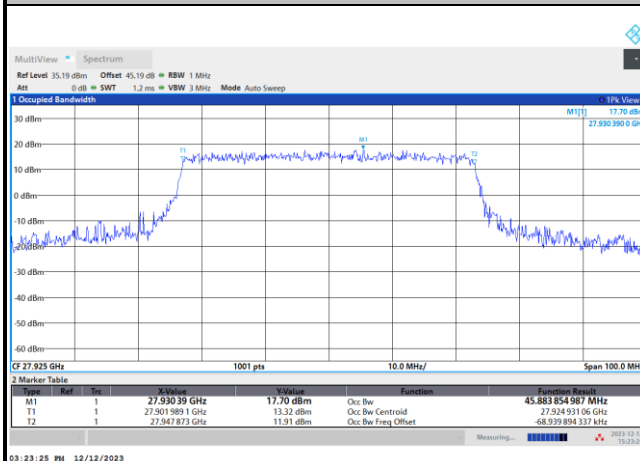
Lowest Channel / 50MHz / QPSK



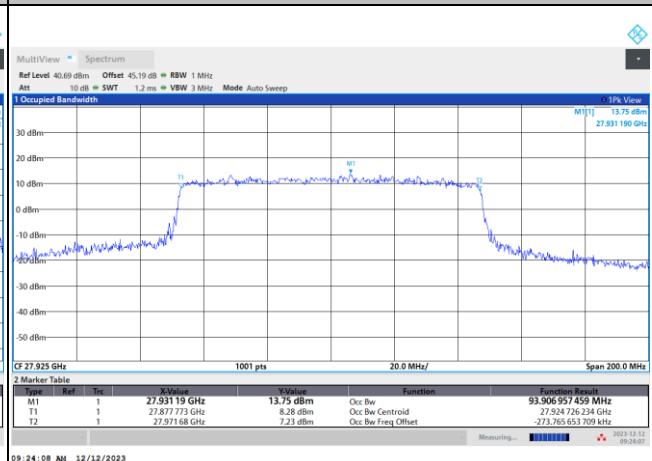
Lowest Channel / 100MHz / QPSK



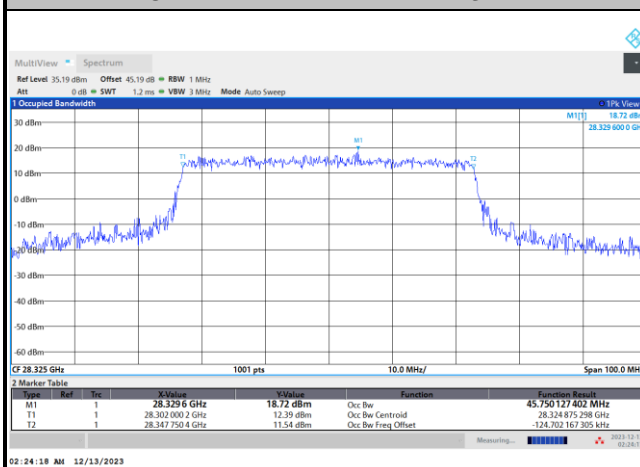
Middle Channel / 50MHz / QPSK



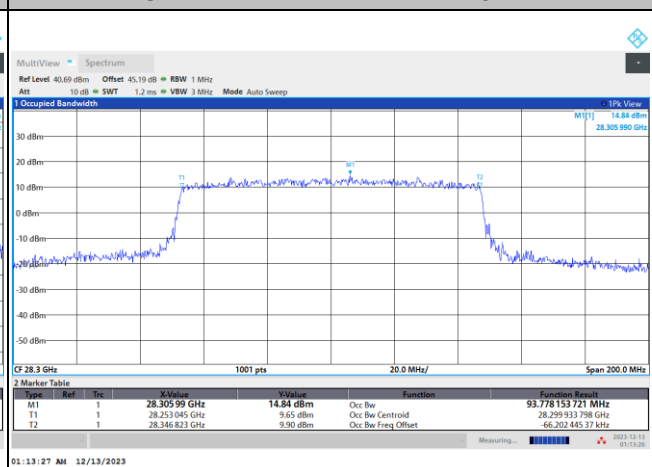
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

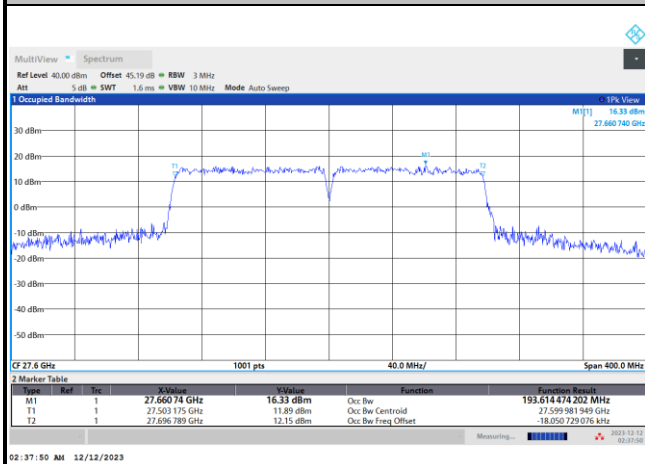




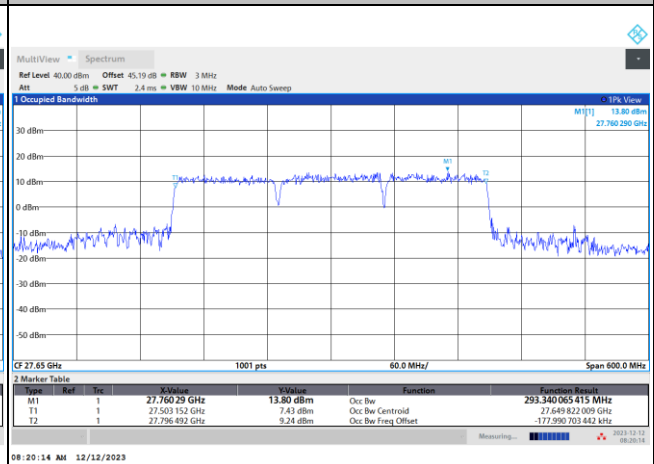
CP-OFDM Module A

NR Band n261

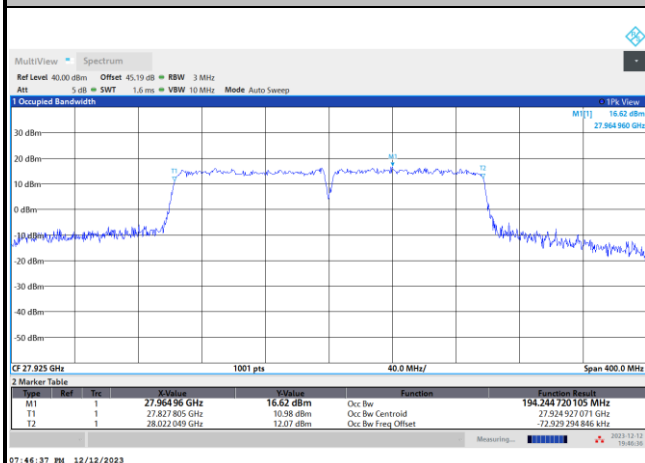
Lowest Channel / 200MHz / QPSK



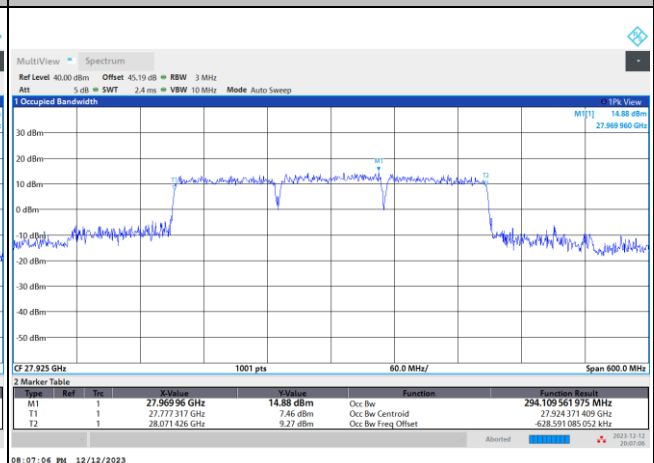
Lowest Channel / 300MHz / QPSK



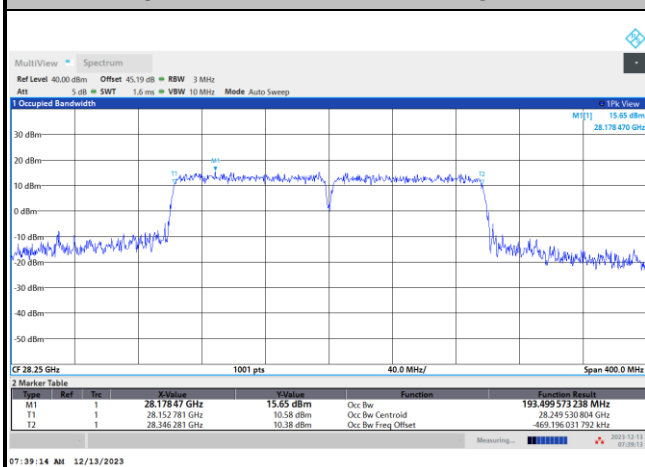
Middle Channel / 200MHz / QPSK



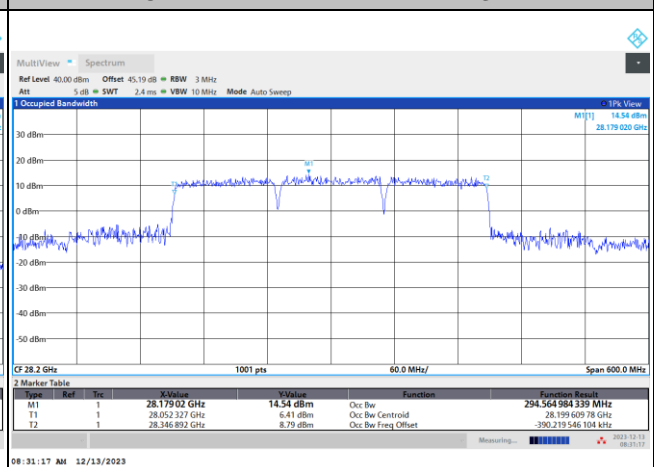
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / QPSK



Highest Channel / 300MHz / QPSK

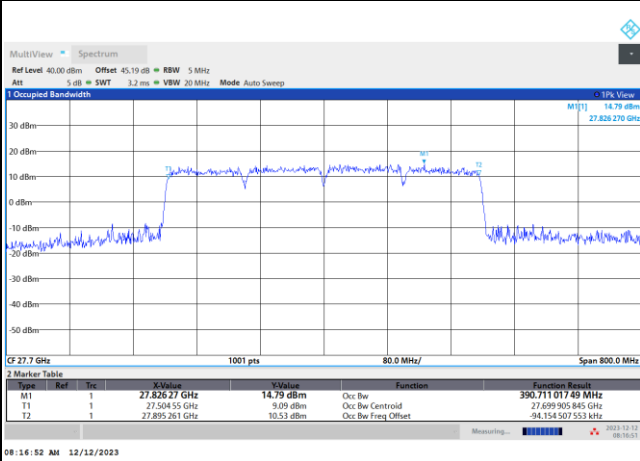




CP-OFDM Module A

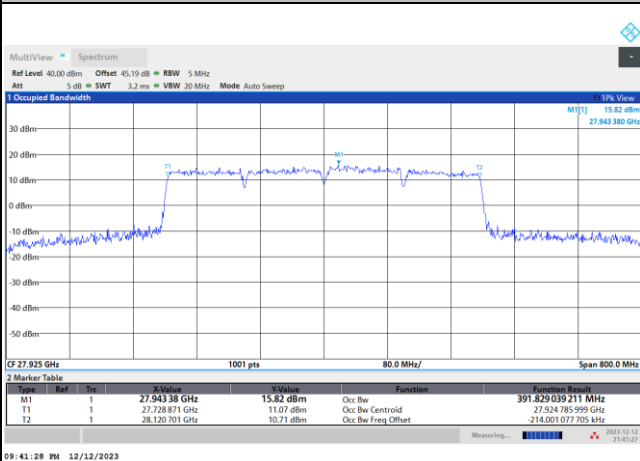
NR Band n261

Lowest Channel / 400MHz / QPSK



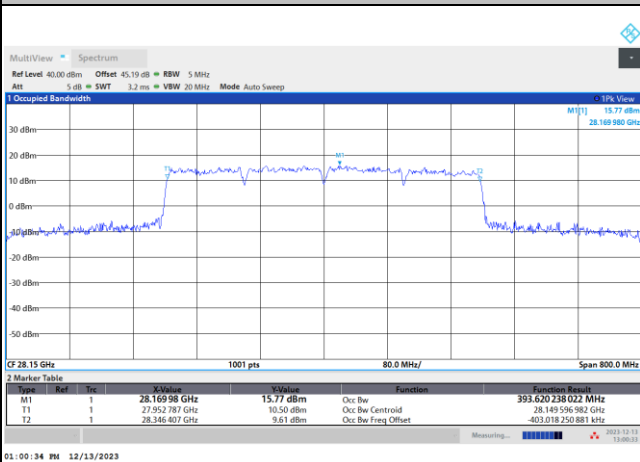
intentionally blank

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	-5.99	-5.27	-5.95	-8.07	-8.91	-10.58	-14.35	-15.43	-16.71
	>10%OB	≤-13	-25.77	-24.62	-24.96	-29.81	-30.57	-30.51	-18.23	-19.29	-21.19
High CH	0~10%OB	≤-5	-5.19	-6.89	-7.45	-9.63	-10.73	-11.22	-15.69	-15.59	-18.58
	>10%OB	≤-13	-25.16	-26.57	-27.45	-27.74	-29.19	-29.14	-21.73	-23.64	-26.08
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	-17.68	-19.49	-21.44	-19.78	-21.74	-21.06
	>10%OB	≤-13	-15.00	-18.01	-21.44	-23.40	-24.52	-26.34
High CH	0~10%OB	≤-5	-20.34	-18.13	-21.96	-19.50	-19.19	-22.62
	>10%OB	≤-13	-14.89	-15.56	-22.38	-18.32	-19.49	-23.15
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	-22.091	-7.08	-13.19
	>10%OB	≤-13	-27.614	-30.47	-15.28
High CH	0~10%OB	≤-5	-6.45	-10.70	-16.22
	>10%OB	≤-13	-26.05	-29.19	-19.94
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	-31.405	-18.23
	>10%OB	≤-13	-24.183	-15.65
High CH	0~10%OB	≤-5	-29.996	-21.37
	>10%OB	≤-13	-22.733	-15.76
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	-14.32	-15.25	-17.51	-16.47	-20.78	-22.58	-23.43	-24.21	-28.05
	>10%OB	≤-13	-20.04	-22.85	-27.74	-23.18	-26.24	-28.41	-30.21	-31.88	-33.57
High CH	0~10%OB	≤-5	-15.39	-17.40	-20.64	-20.74	-23.83	-27.00	-28.68	-31.01	-32.20
	>10%OB	≤-13	-21.33	-24.77	-30.16	-24.22	-26.78	-29.91	-32.97	-34.12	-34.40
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	-25.38	-28.19	-31.12	-28.63	-29.69	-32.83
	>10%OB	≤-13	-30.11	-33.05	-35.79	-32.83	-36.72	-38.06
High CH	0~10%OB	≤-5	-26.69	-30.94	-34.88	-31.04	-30.33	-35.60
	>10%OB	≤-13	-27.36	-31.29	-36.64	-31.91	-29.77	-32.97
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	-15.05	-18.64	-22.67
	>10%OB	≤-13	-20.30	-23.31	-27.22
High CH	0~10%OB	≤-5	-16.43	-21.03	-24.70
	>10%OB	≤-13	-21.32	-25.15	-29.64
Result			Compliance		

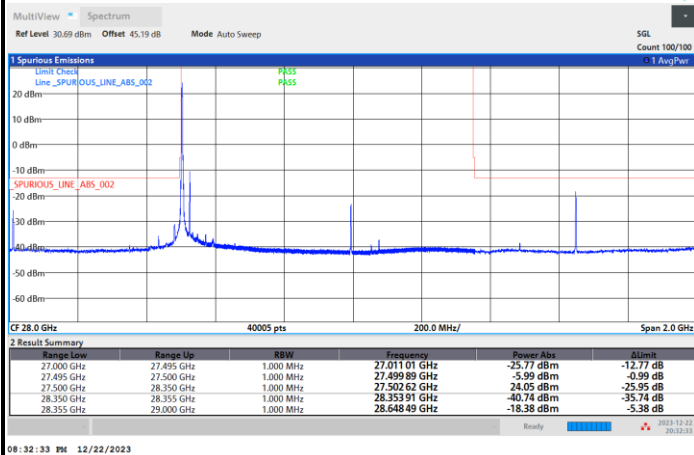
Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-24.79	-27.91
	>10%OB	≤-13	-25.46	-30.49
High CH	0~10%OB	≤-5	-22.69	-22.06
	>10%OB	≤-13	-24.30	-22.66
Result			Compliance	



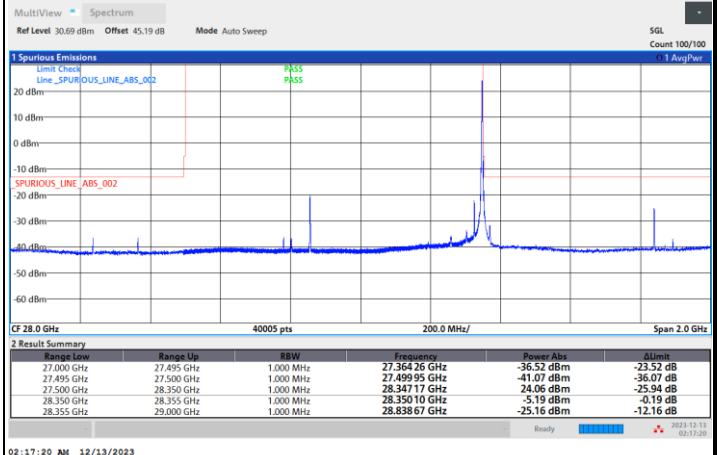
DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

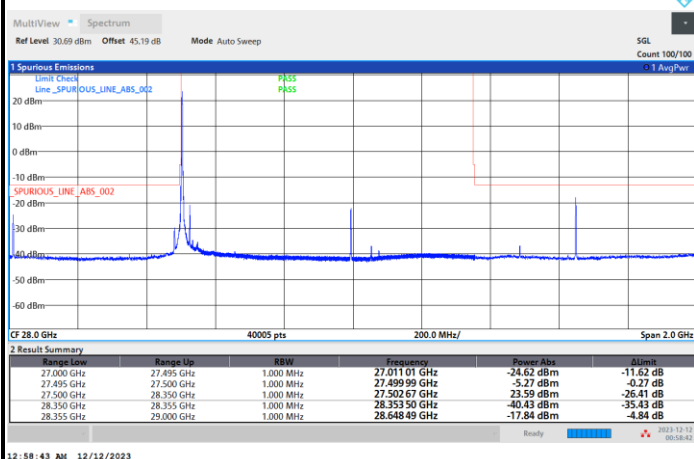


Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

