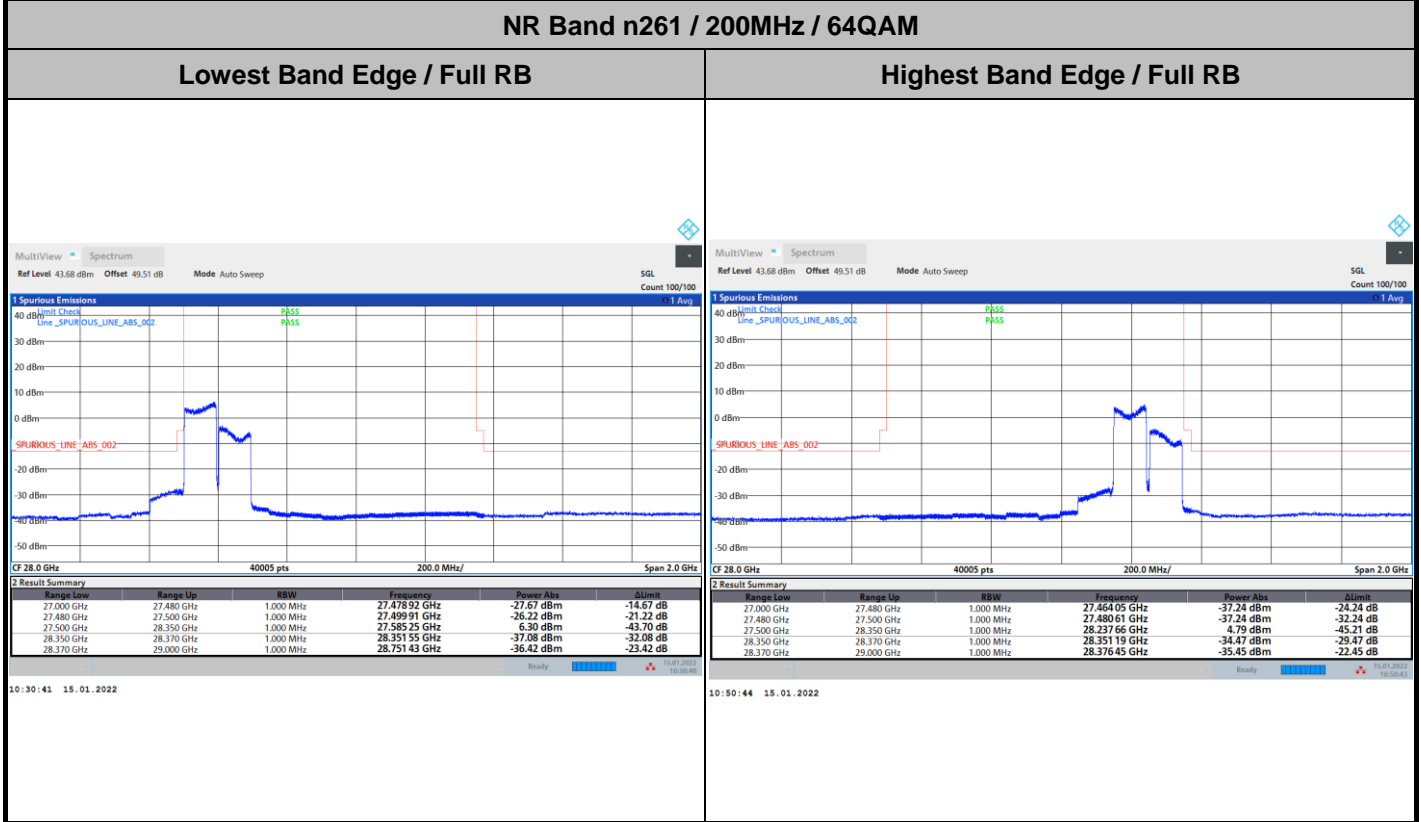
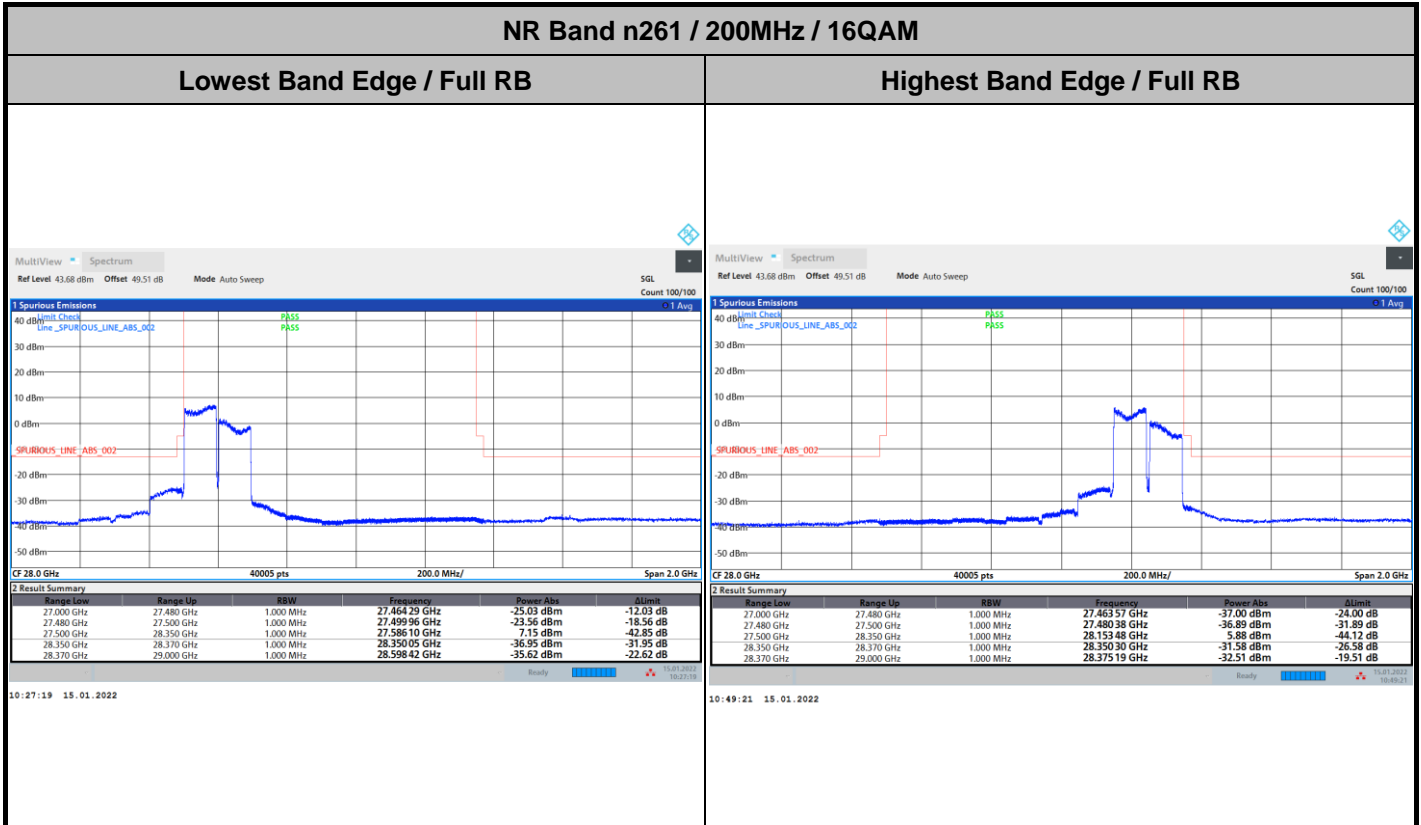




DFT-s-OFDM Module 0

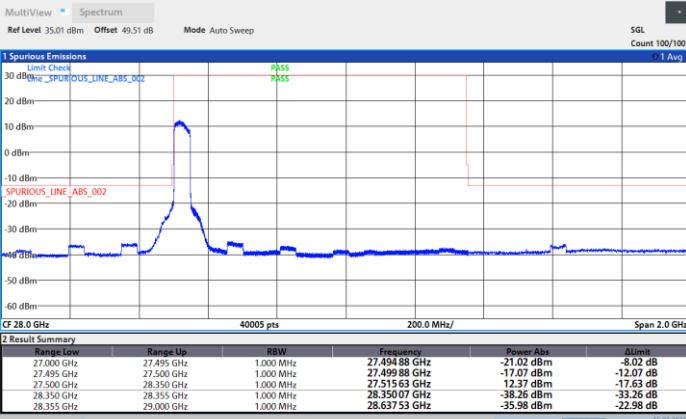




CP-OFDM Module 0

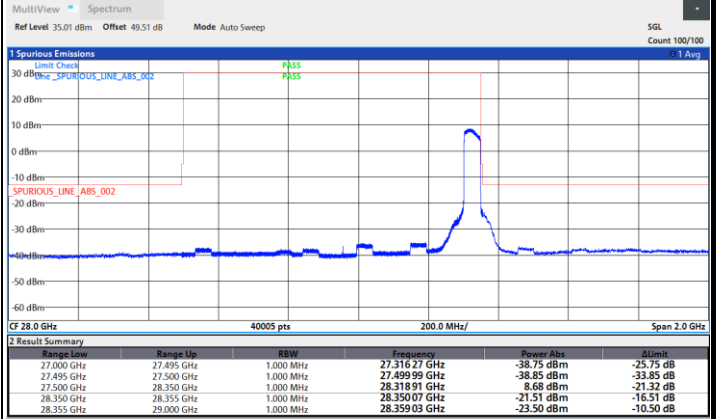
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



08:23:24 15.01.2022

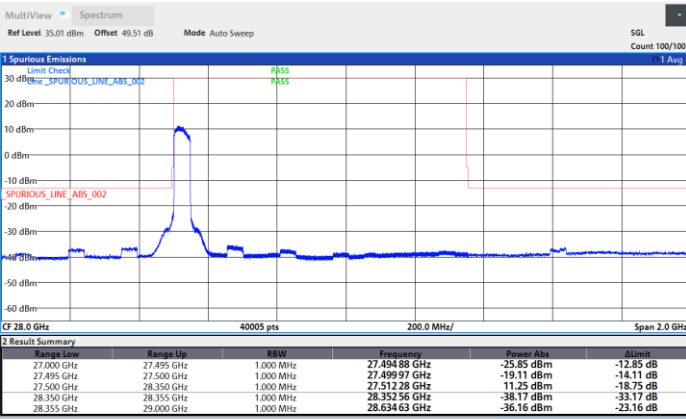
Highest Band Edge / Full RB



07:21:28 15.01.2022

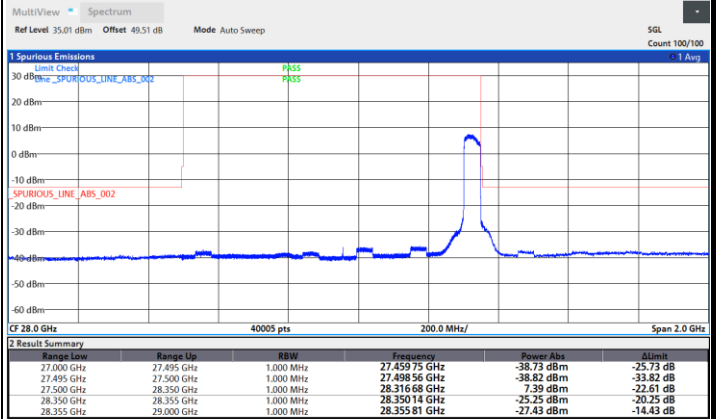
NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



08:24:22 15.01.2022

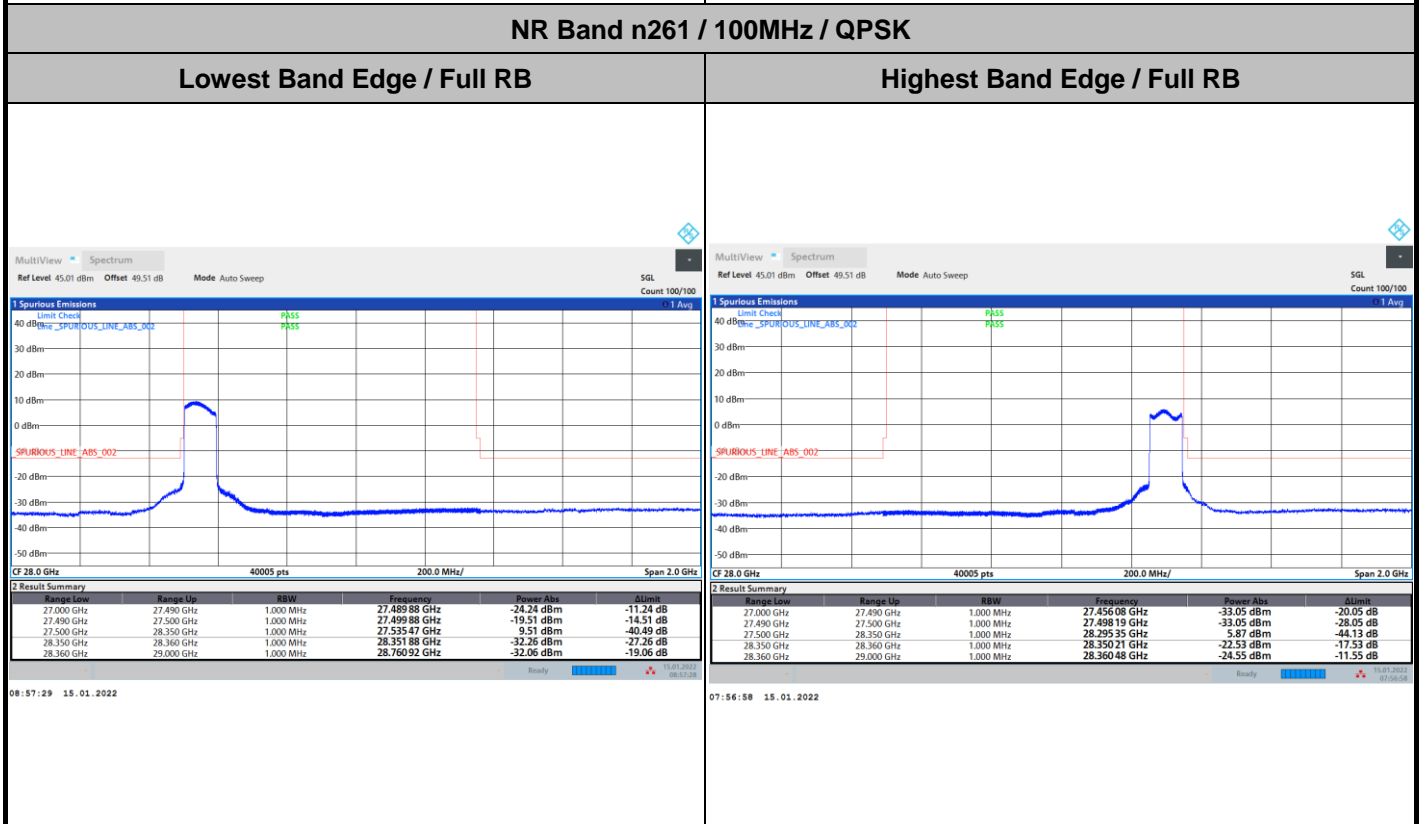
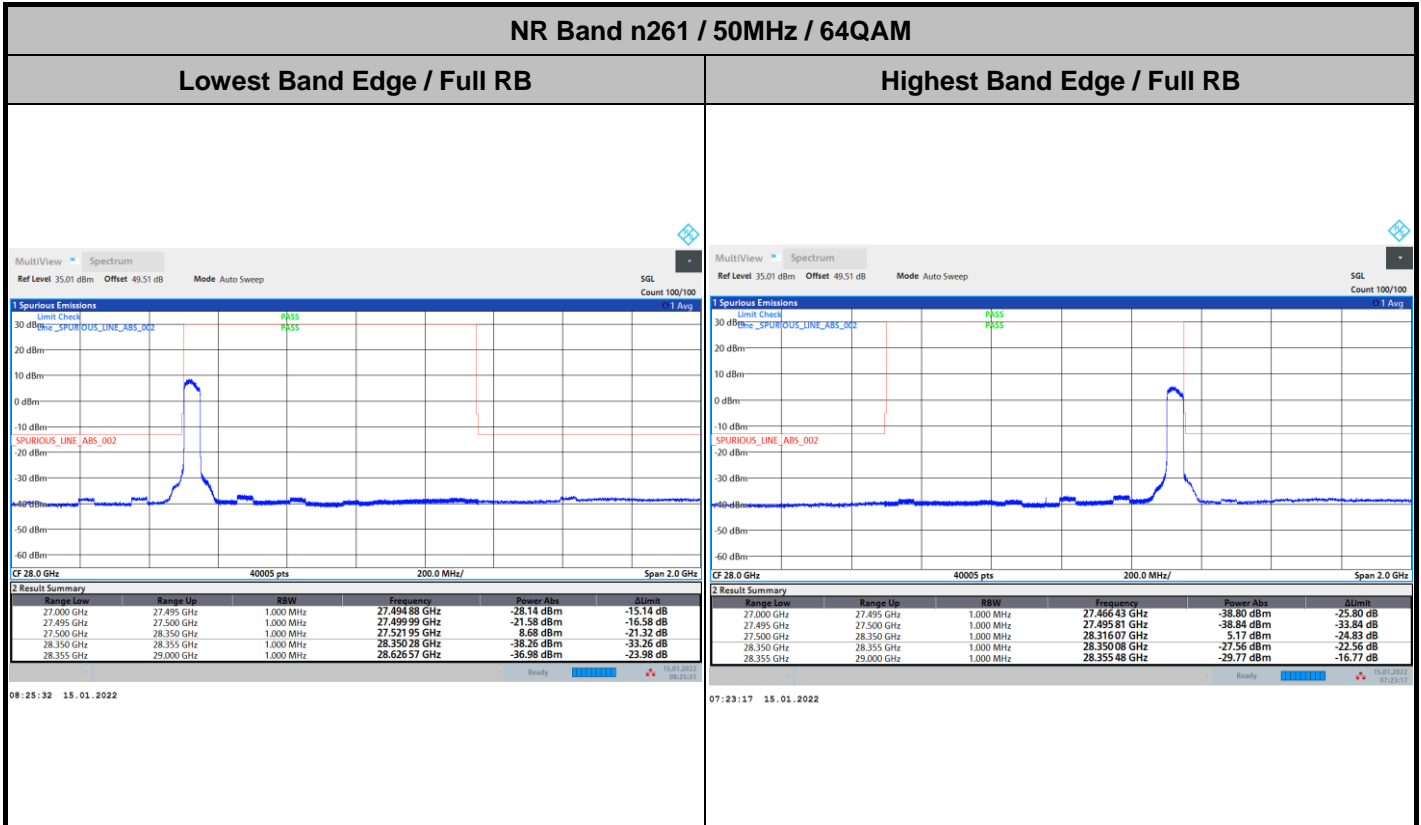
Highest Band Edge / Full RB



07:22:27 15.01.2022

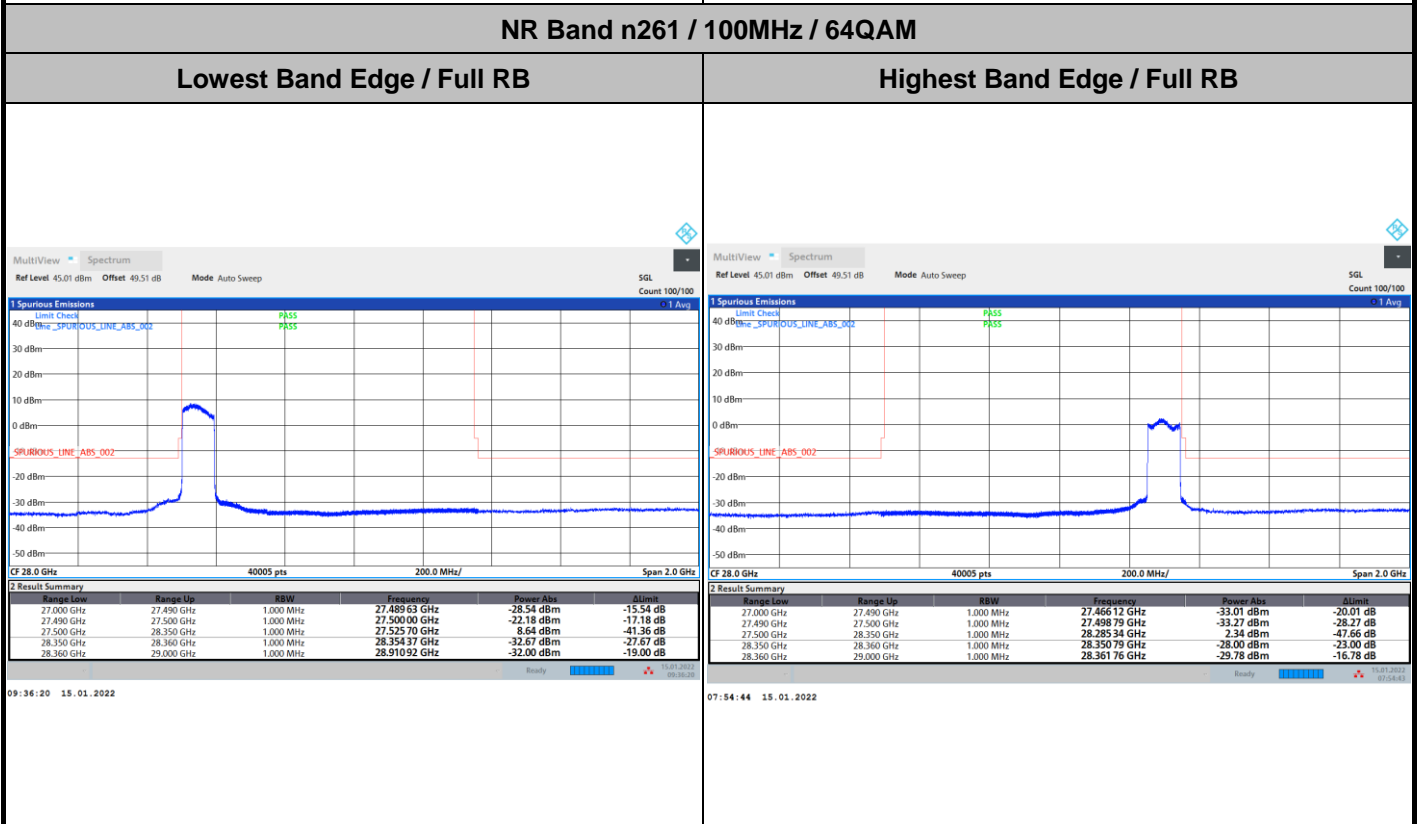
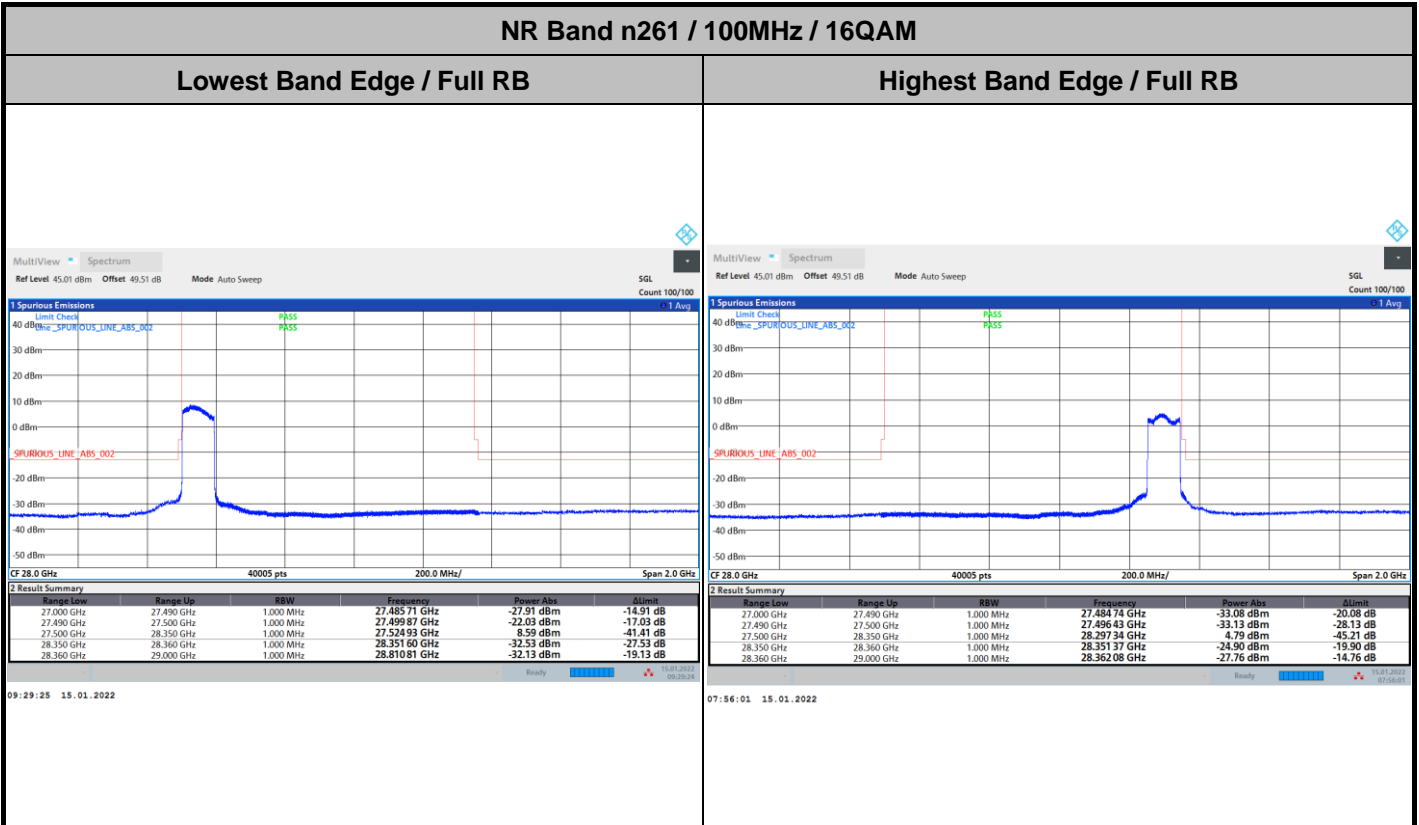


CP-OFDM Module 0





CP-OFDM Module 0



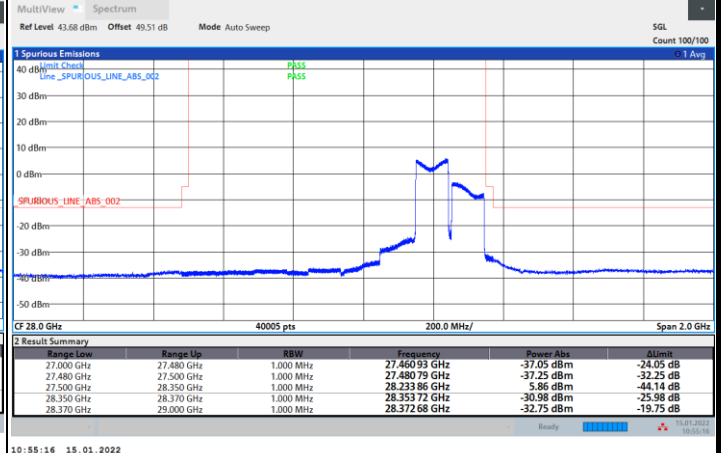
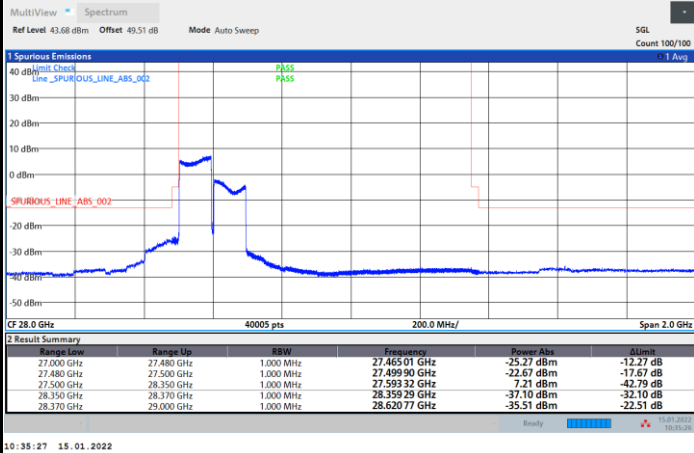


CP-OFDM Module 0

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB

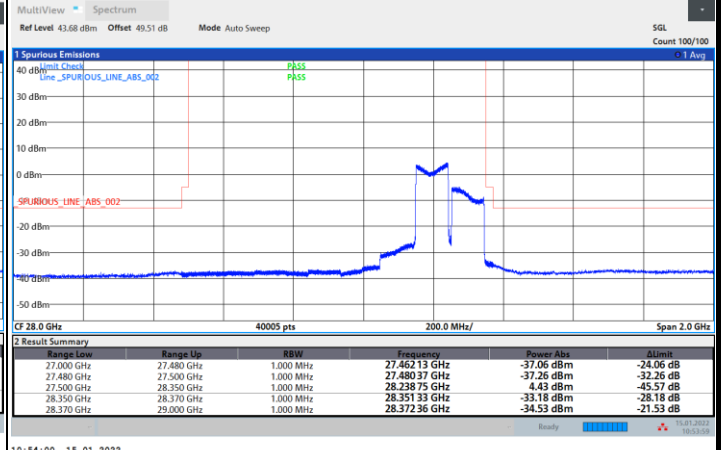
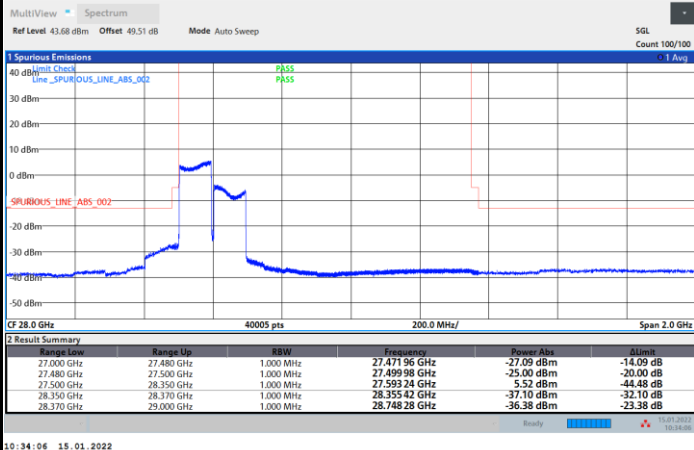
Highest Band Edge / Full RB



NR Band n261 / 200MHz / 16QAM

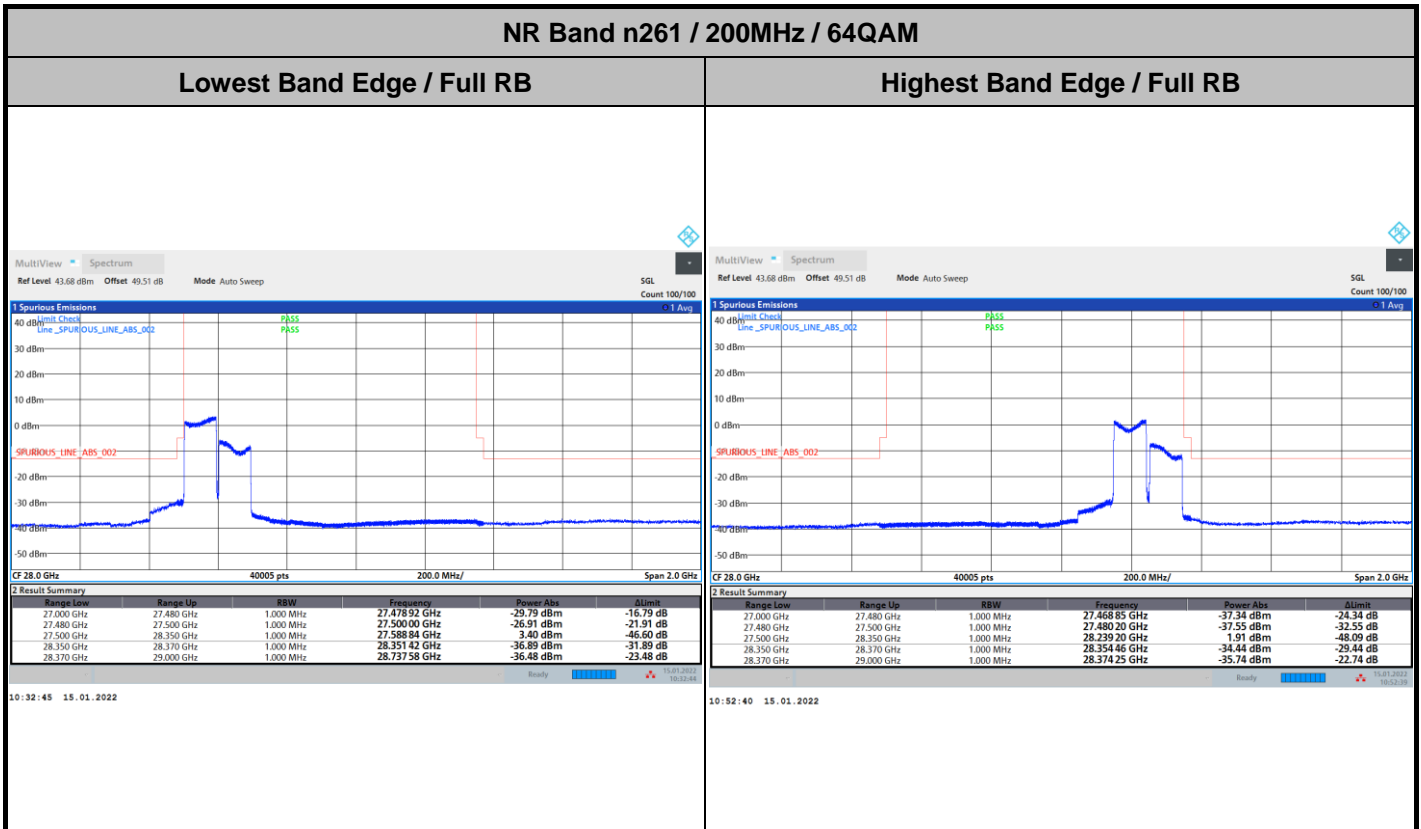
Lowest Band Edge / Full RB

Highest Band Edge / Full RB





CP-OFDM Module 0



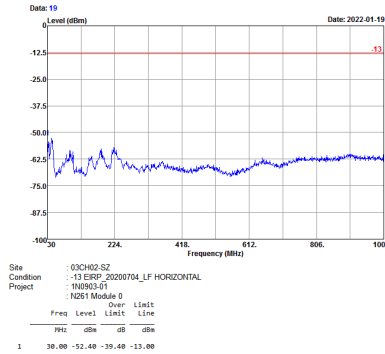


Spurious Emission

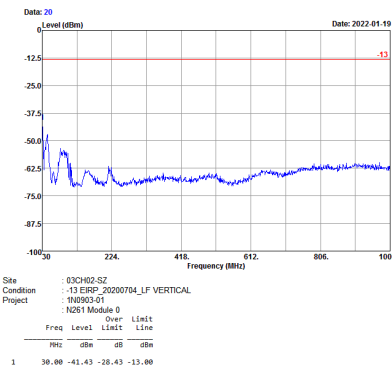
There is no significant spurious emission signal found for frequency started from 9kHz up to 18GHz. Only the noise floor is reported.

NR Band n261 (30MHz-1GHz)

Horizontal



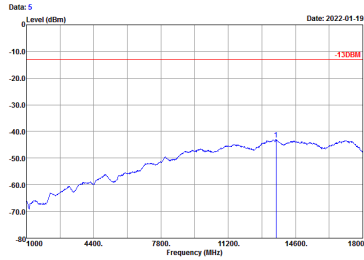
Vertical





NR Band n261 (1GHz-18GHz)

Horizontal

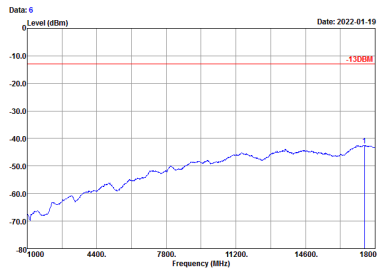


Date: 5
Date: 2022-01-19

Site : 030M02-SZ
Condition : -130dBm ERP_20200906 HORIZONTAL
Project : 1N0903-01
NR51 Module 0

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1 13614.00	-43.02	-36.02	-13.00

Vertical



Date: 6
Date: 2022-01-19

Site : 030M02-SZ
Condition : -130dBm ERP_20200906 VERTICAL
Project : 1N0903-01
NR51 Module 0

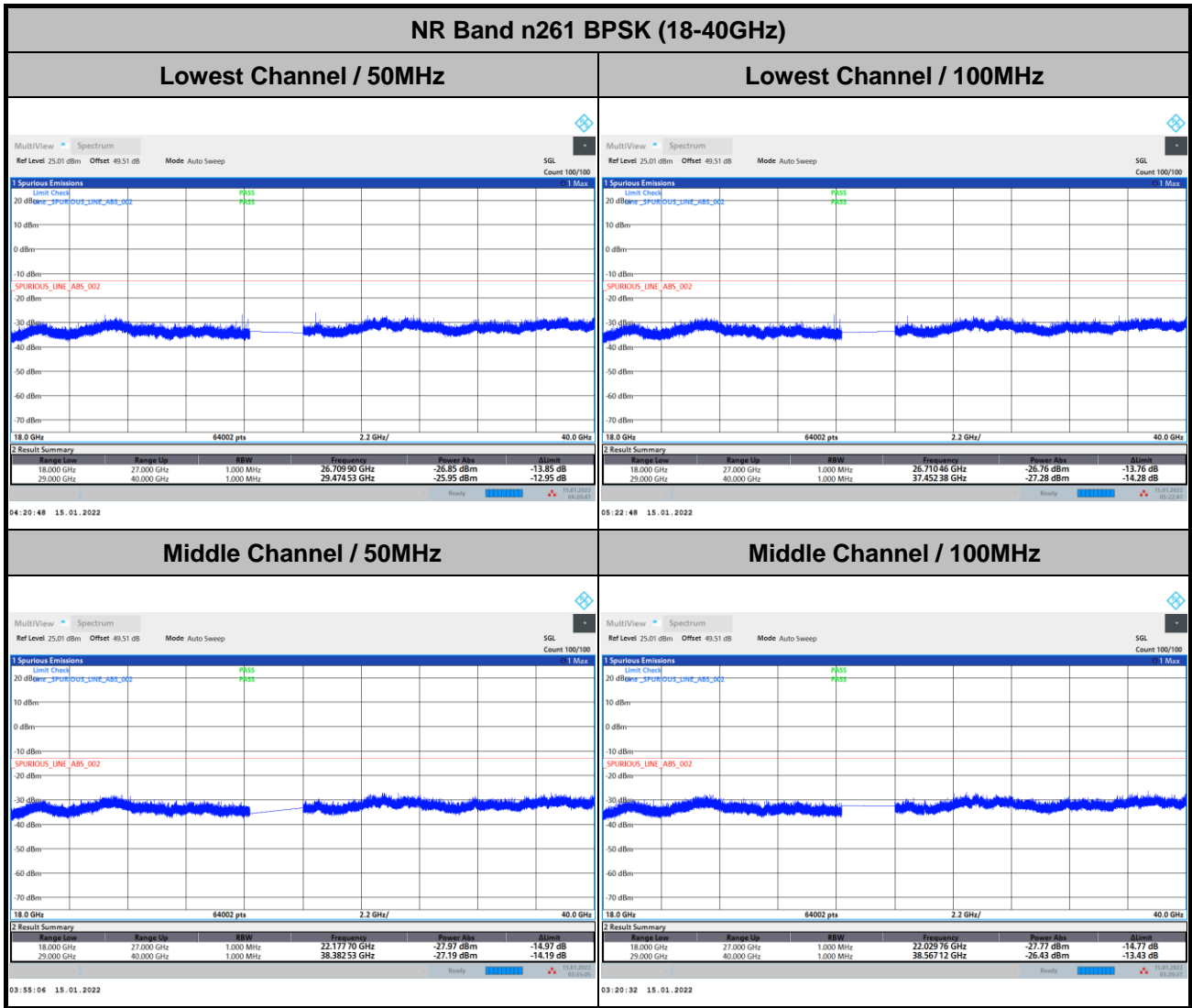
Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1 17498.00	-42.48	-29.48	-13.00

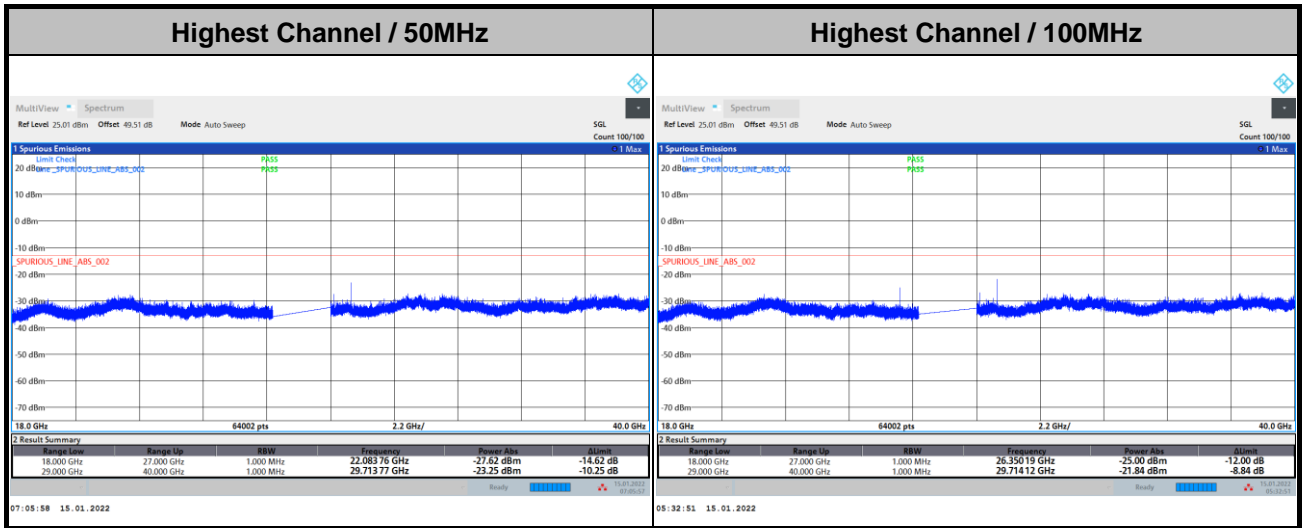


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

Remark: Below plots, the spurious emissions were measured from 18GHz to 27GHz and 29GHz to 40GHz. The test results within the omitted frequency 27GHz to 29GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 27GHz to 29GHz, and all spurious comply with limits.

DFT-s-OFDM Module 0





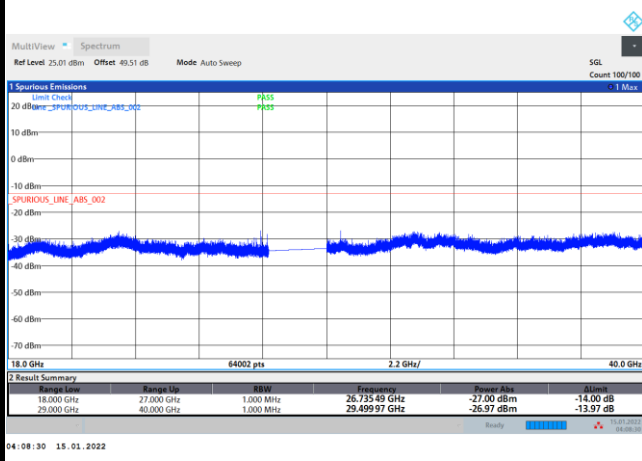
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 0

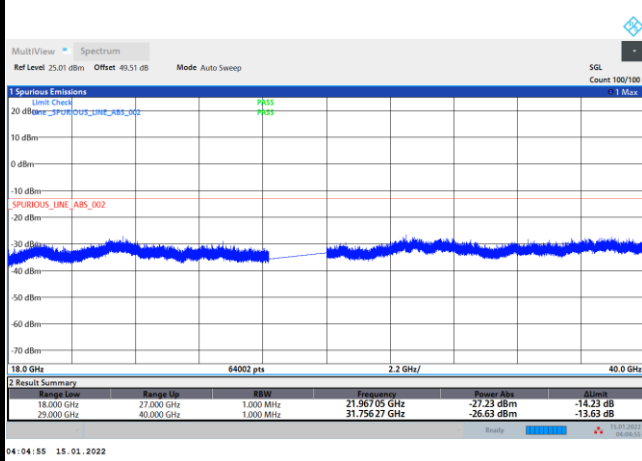
NR Band n261 BPSK (18-40GHz)

Lowest Channel / 200MHz



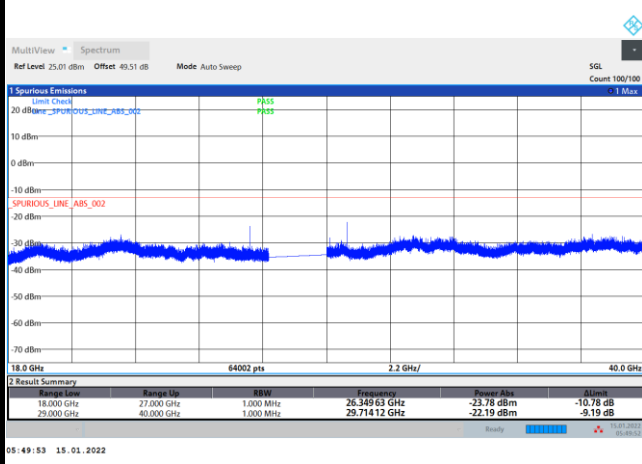
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz



intentionally blank

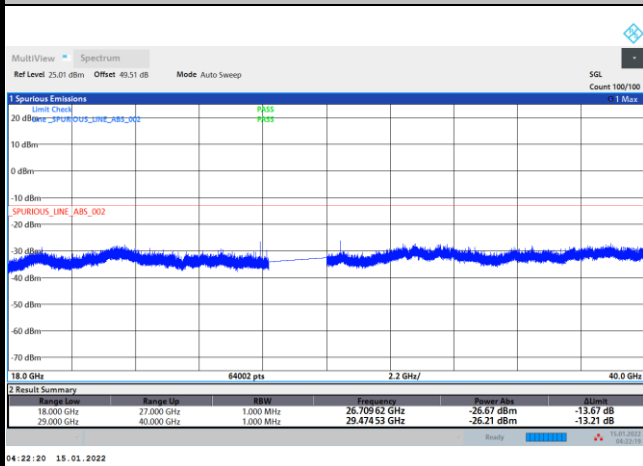
Remark: In band and out of band frequencies are omitted.



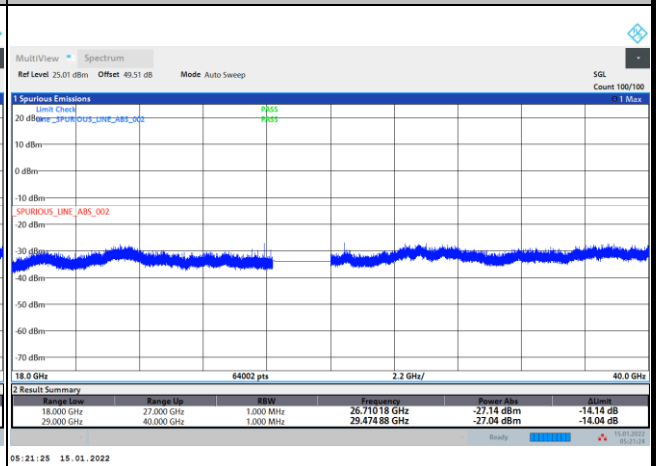
DFT-s-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

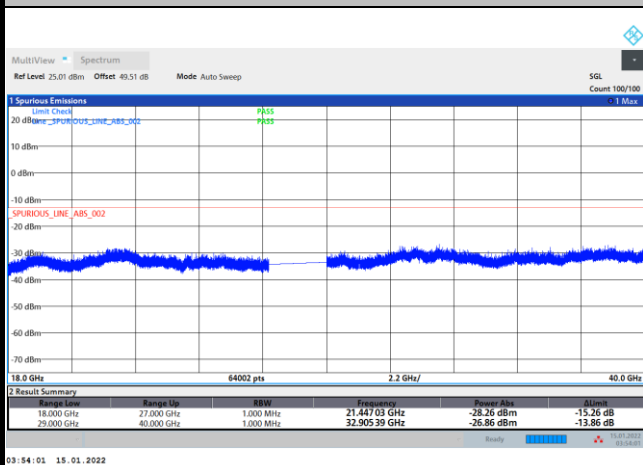
Lowest Channel / 50MHz



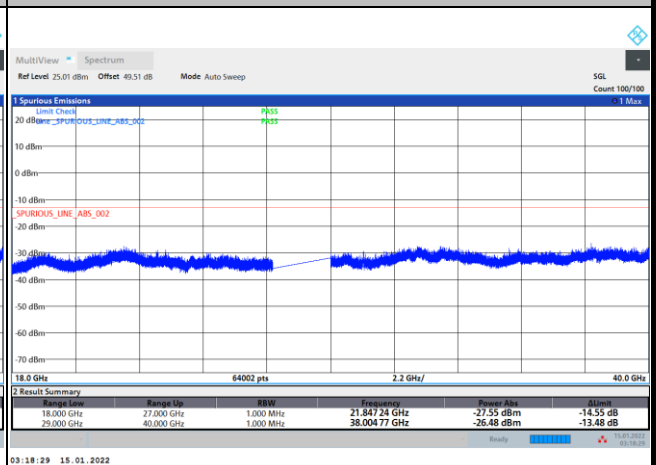
Lowest Channel / 100MHz



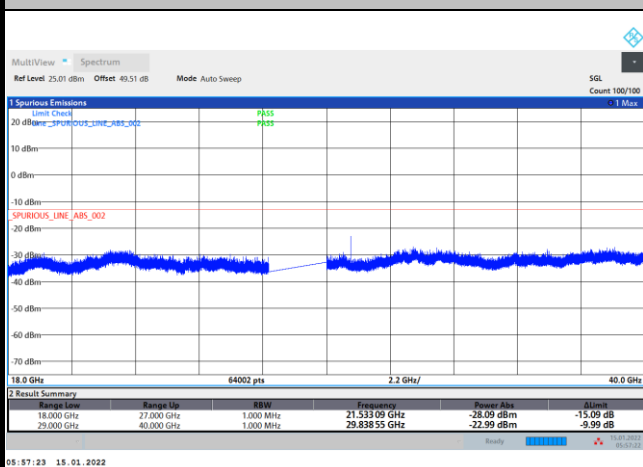
Middle Channel / 50MHz



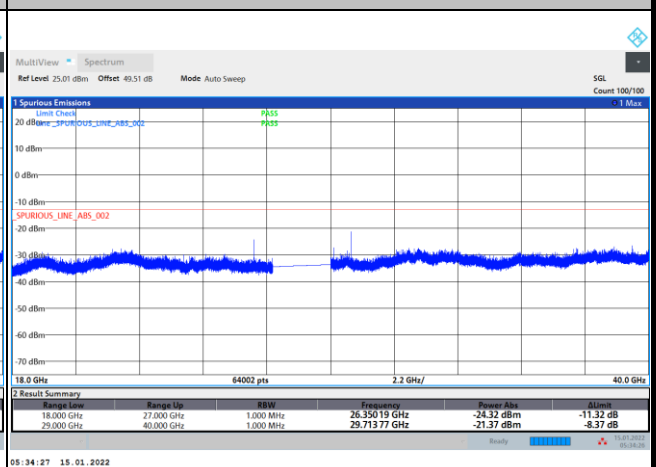
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



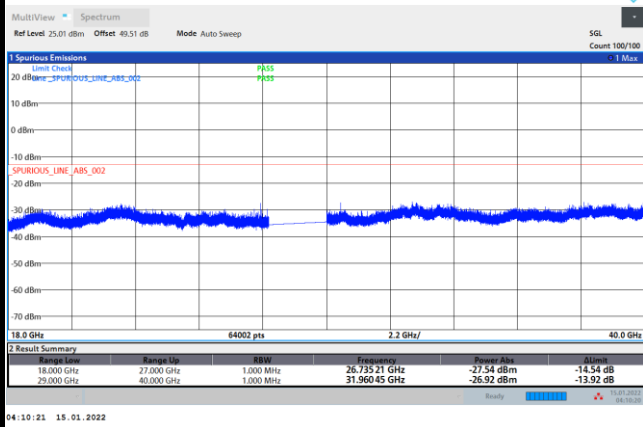
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 0

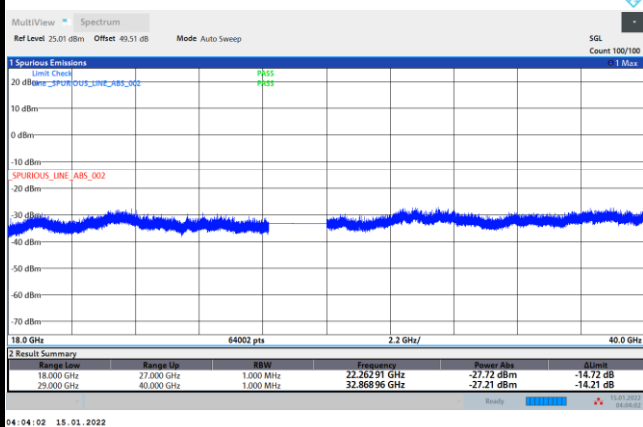
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



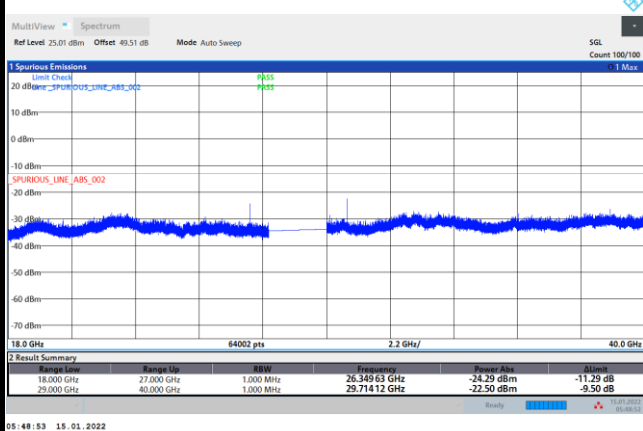
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz

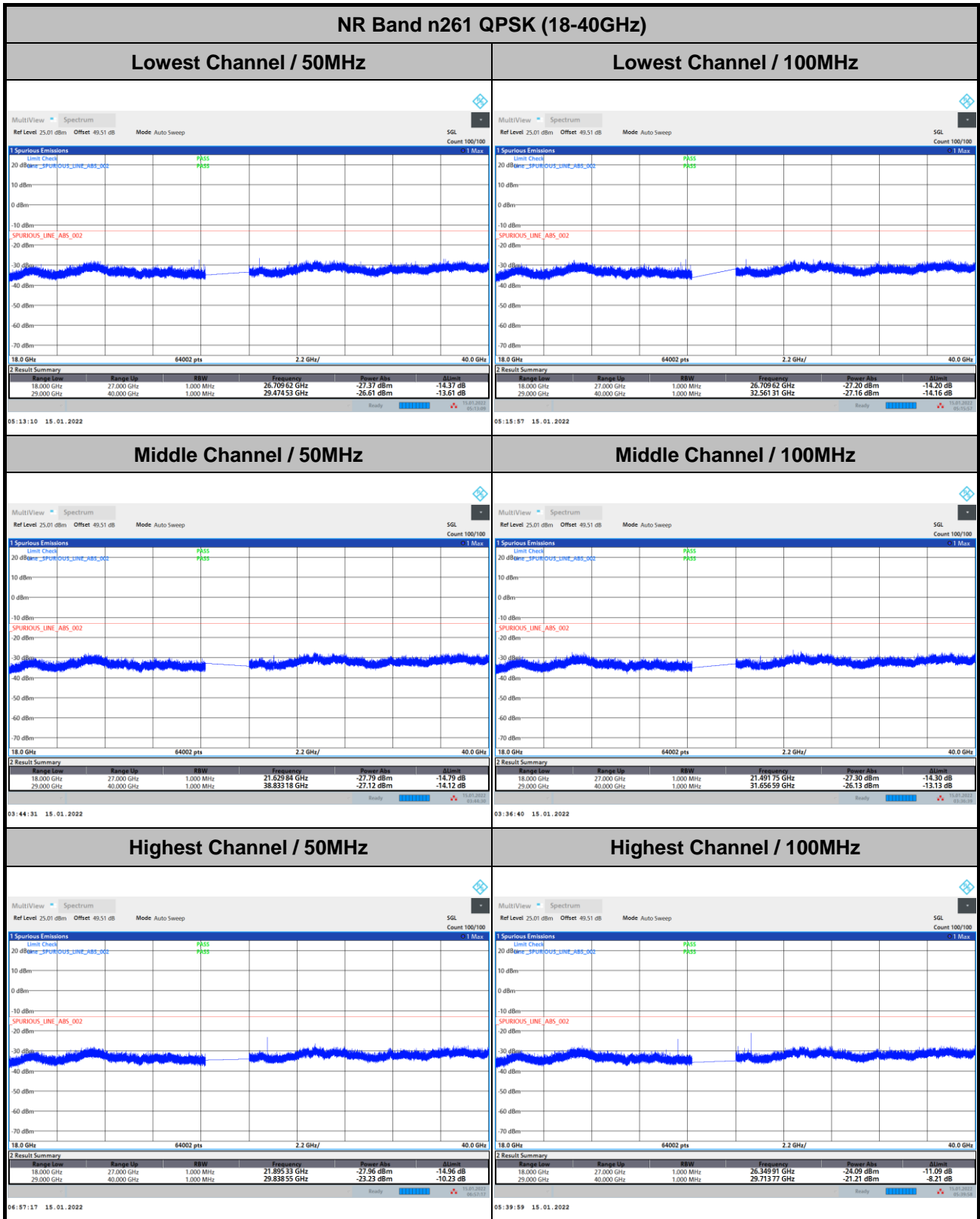


intentionally blank

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



CP-OFDM Module 0



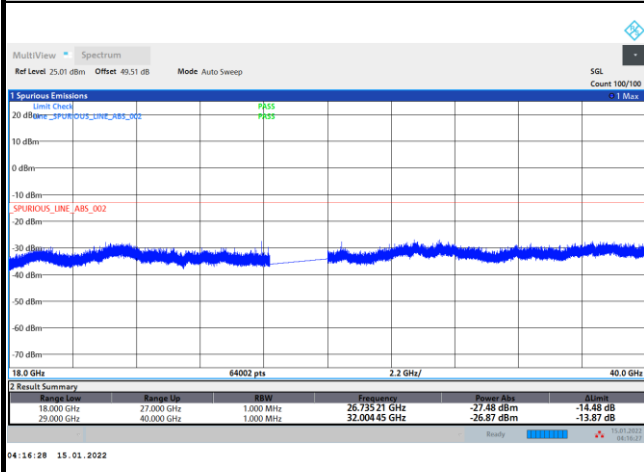
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module 0

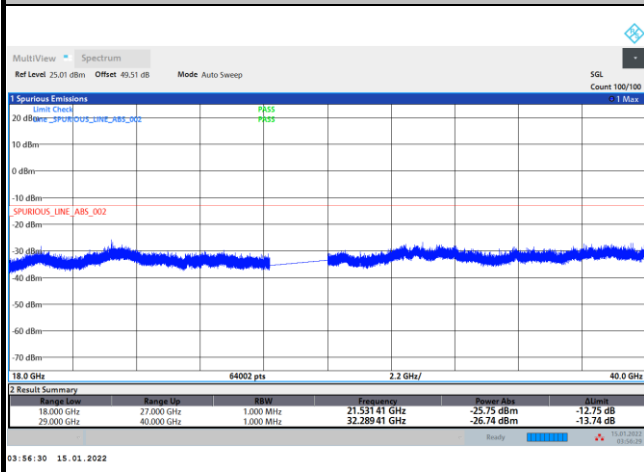
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



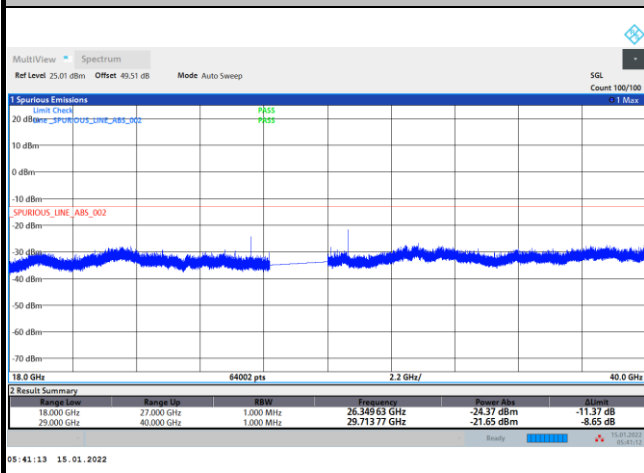
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz

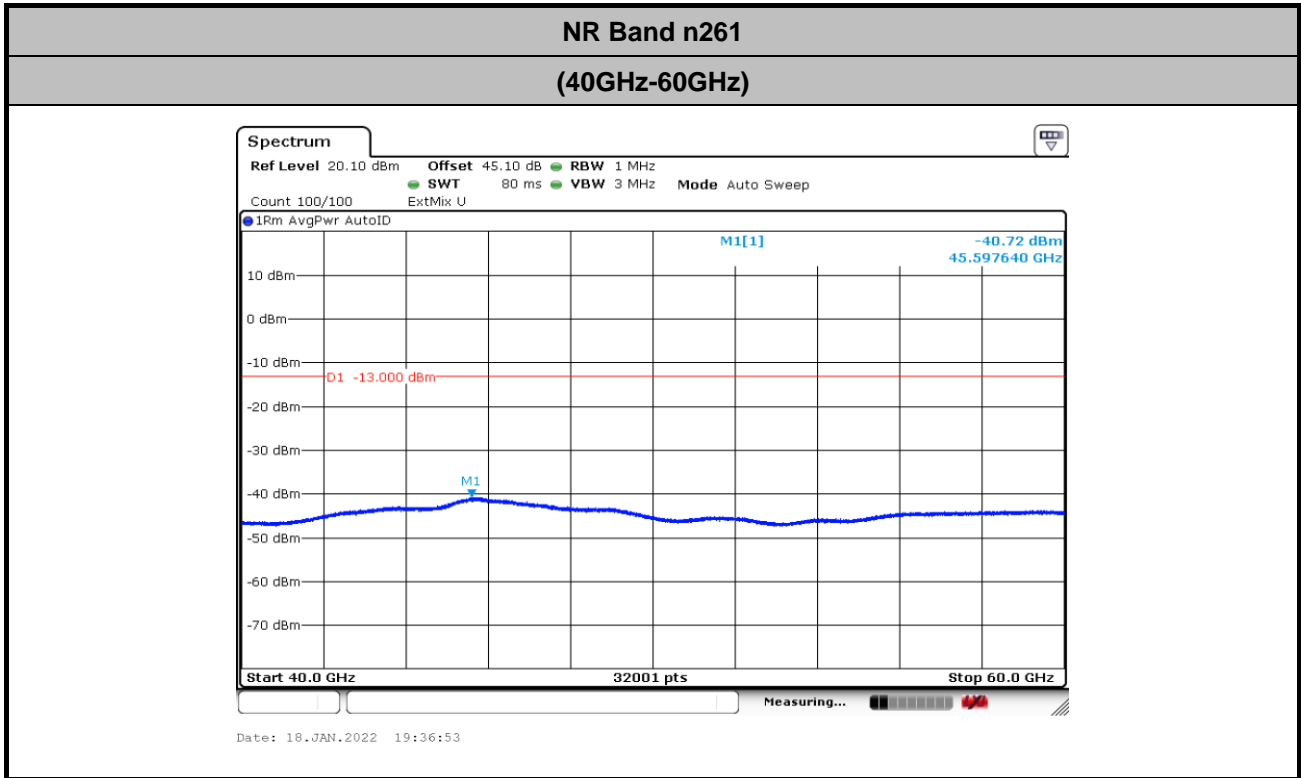


intentionally blank

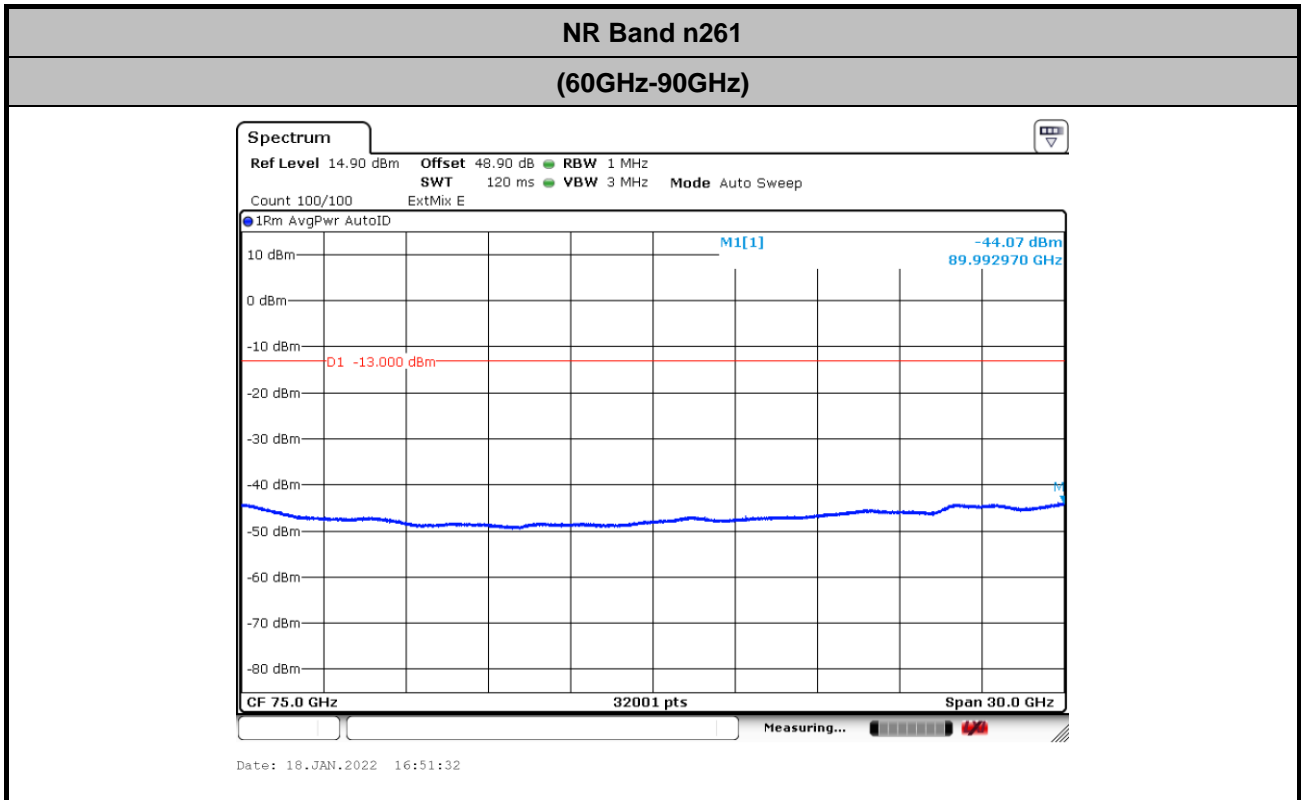
Remark: In band and out of band frequencies are omitted.



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.

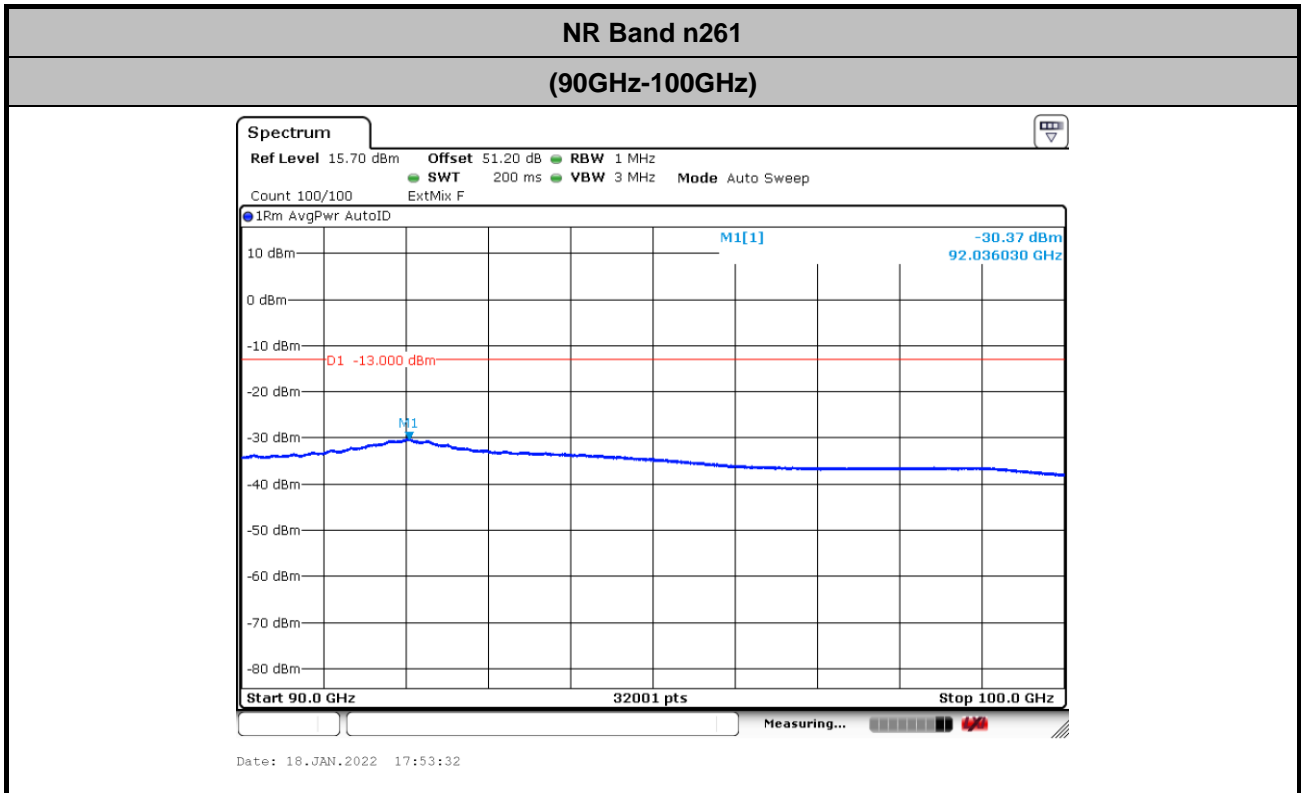


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.5 + 0.4 + 107 + 20\log(1) - 104.8 = 45.1 \text{ (dB)} \end{aligned}$$



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

$$= 46.3 + 0.4 + 107 + 20\log(1) - 104.8 = 48.9 (dB)$$



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

$$= 48.6 + 0.4 + 107 + 20\log(1) - 104.8 = 51.2 \text{ (dB)}$$



Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	27.92492619	74.530	2.669	PASS
40	Normal Voltage	27.92494718	53.540	1.917	
30	Normal Voltage	27.92497829	22.430	0.803	
20(Ref.)	Normal Voltage	27.92500072	0.000	0.000	
10	Normal Voltage	27.92505572	-55.000	1.970	
0	Normal Voltage	27.92511939	-118.670	4.250	
-10	Normal Voltage	27.92516208	-161.360	5.778	
-20	Normal Voltage	27.92517945	-178.730	6.400	
-30	Normal Voltage	27.92519754	-196.820	7.048	
20	Maximum Voltage	27.92500506	-4.340	0.155	
20	Normal Voltage	27.925	0.000	0.000	
20	Battery End Point	27.92498842	12.300	0.440	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the operation band.



NR Band n261 Module 1

AG0

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.76	46.04	46.04	45.90	91.36	91.39	91.59	91.30	187.39	187.16	187.32	187.68
Middle CH	45.80	46.06	46.00	45.90	91.45	91.46	91.64	91.42	188.75	187.98	187.90	188.55
Highest CH	45.86	46.01	46.16	45.82	91.04	91.23	91.55	91.31	186.47	185.62	186.47	187.29

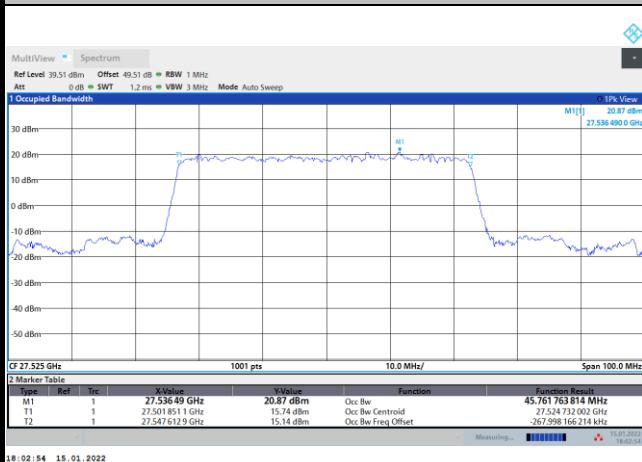
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.04	45.92	45.89	94.27	94.08	94.17	190.44	190.12	190.53
Middle CH	45.89	45.92	45.91	94.38	94.12	94.29	190.57	190.81	190.98
Highest CH	46.04	45.76	45.89	94.40	94.07	94.04	186.18	186.38	186.39



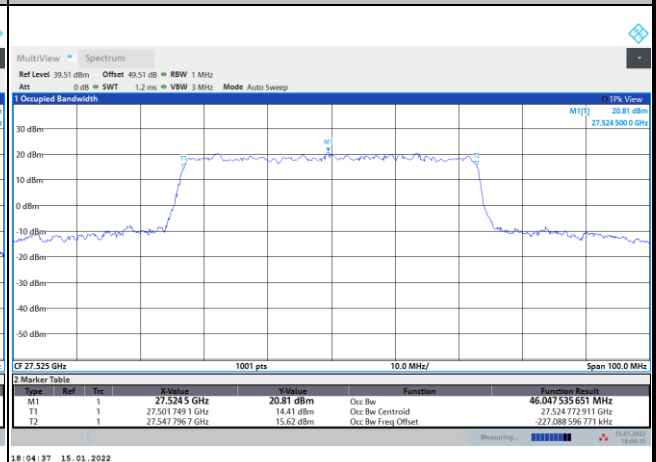
DFT-s-OFDM Module 1

NR Band n261

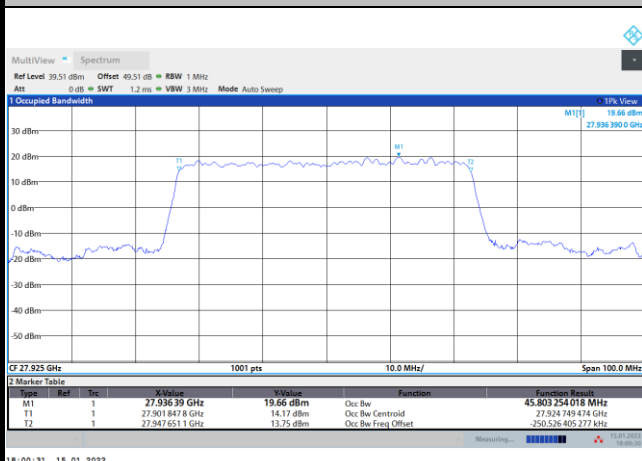
Lowest Channel / 50MHz / BPSK



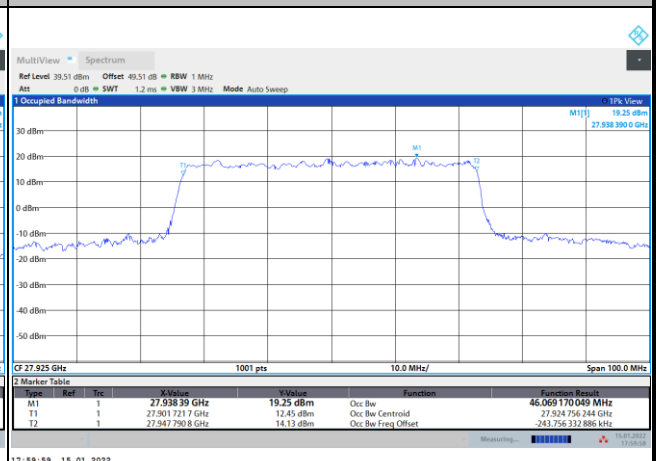
Lowest Channel / 50MHz / QPSK



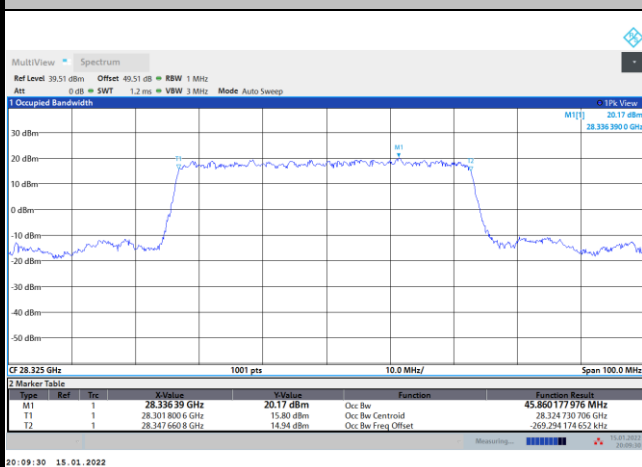
Middle Channel / 50MHz / BPSK



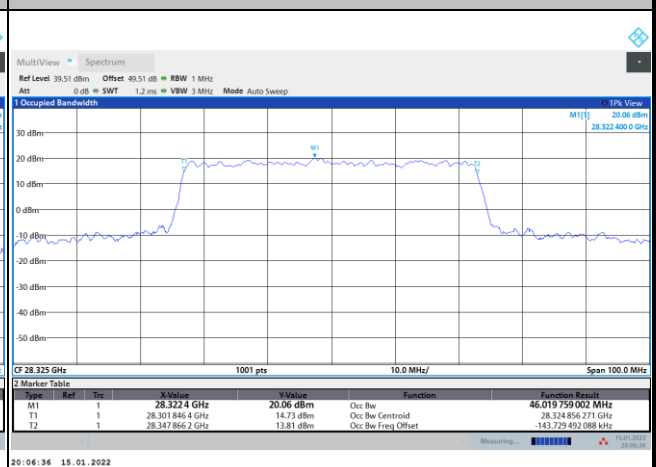
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

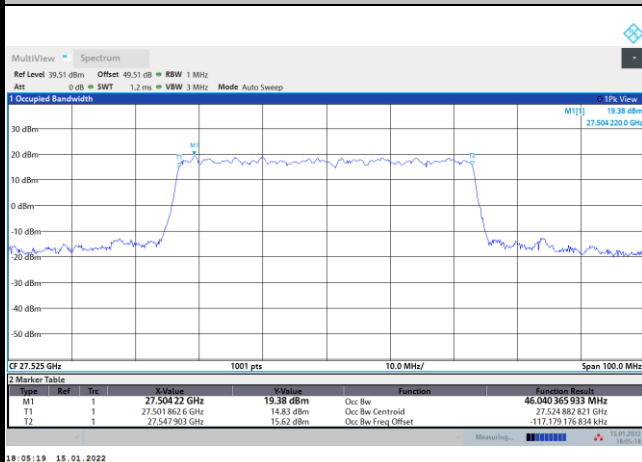




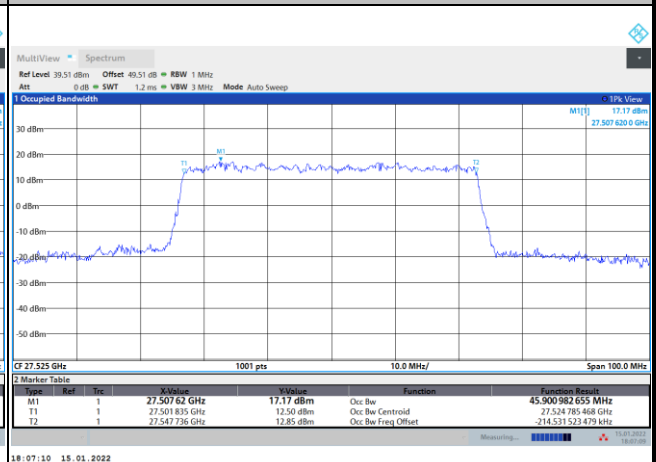
DFT-s-OFDM Module 1

NR Band n261

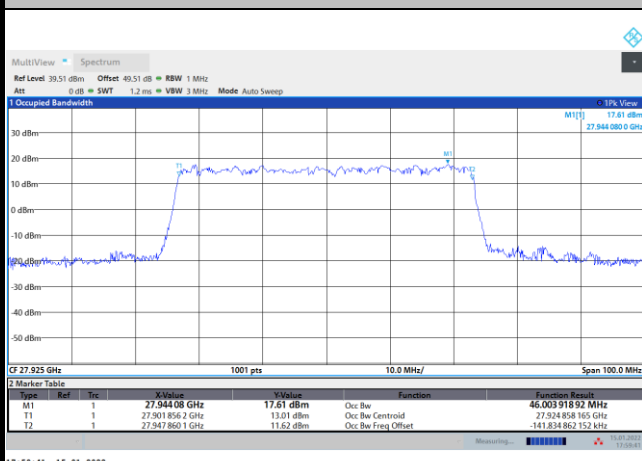
Lowest Channel / 50MHz / 16QAM



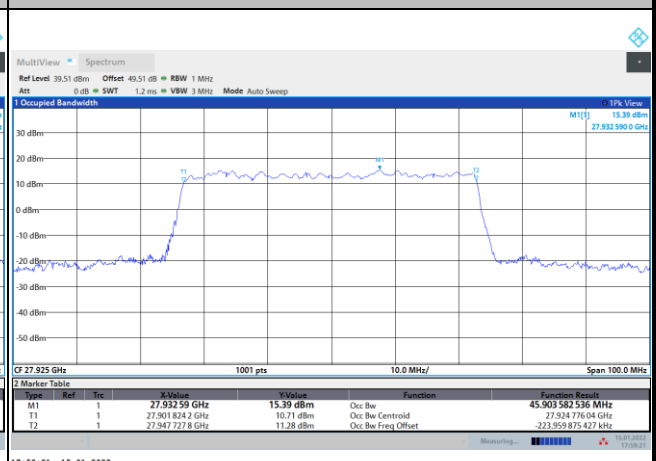
Lowest Channel / 50MHz / 64QAM



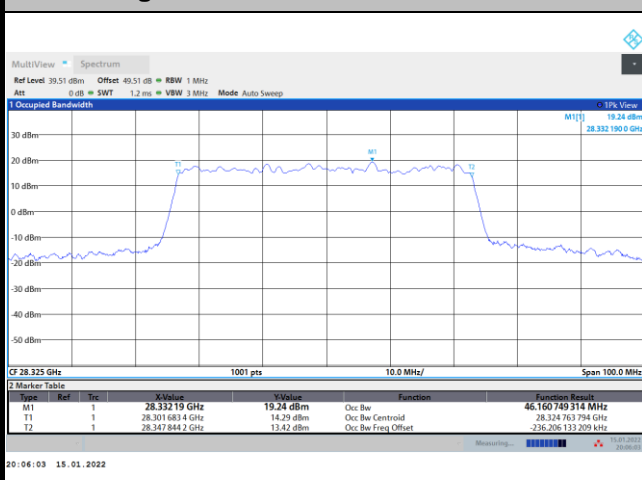
Middle Channel / 50MHz / 16QAM



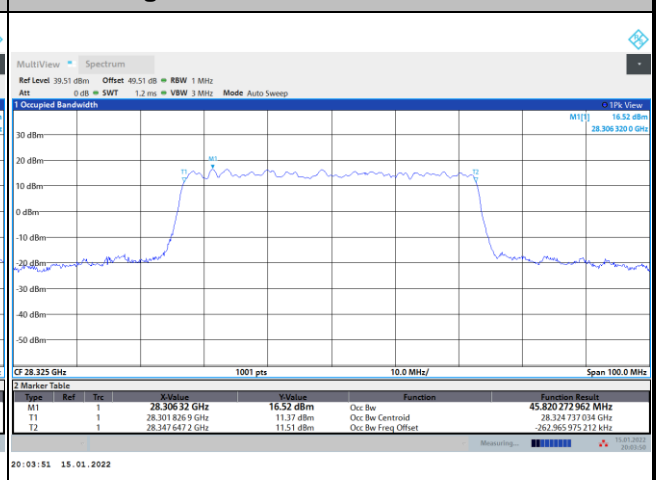
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

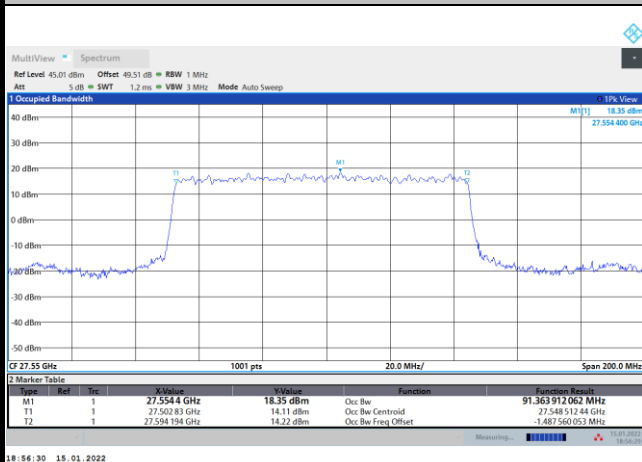




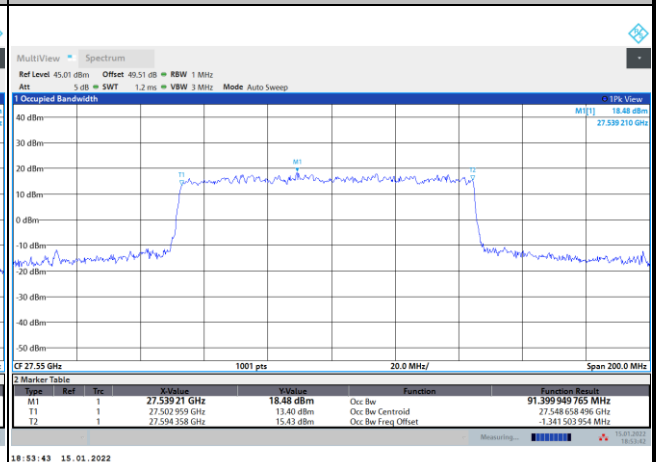
DFT-s-OFDM Module 1

NR Band n261

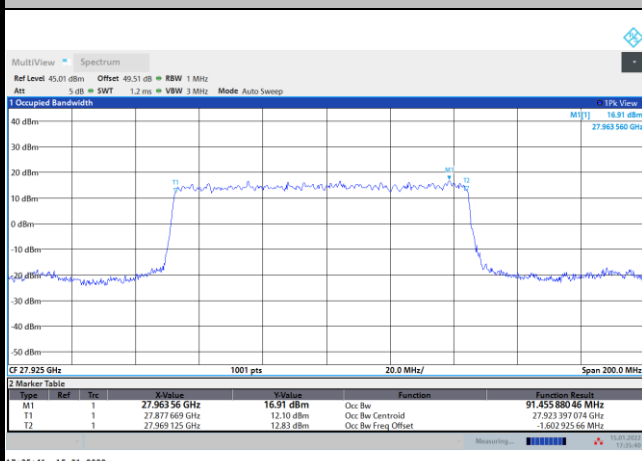
Lowest Channel / 100MHz / BPSK



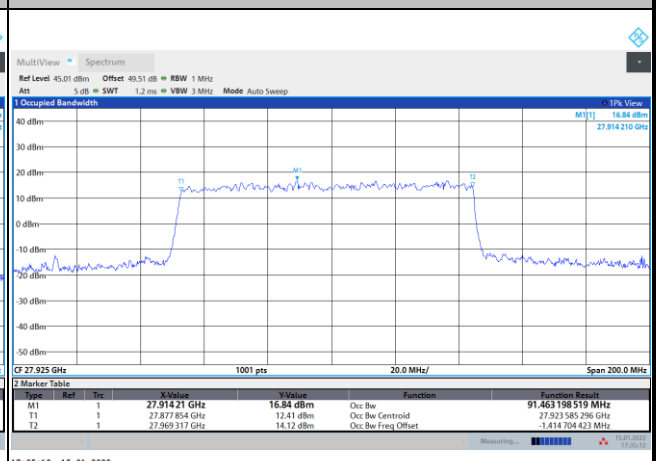
Lowest Channel / 100MHz / QPSK



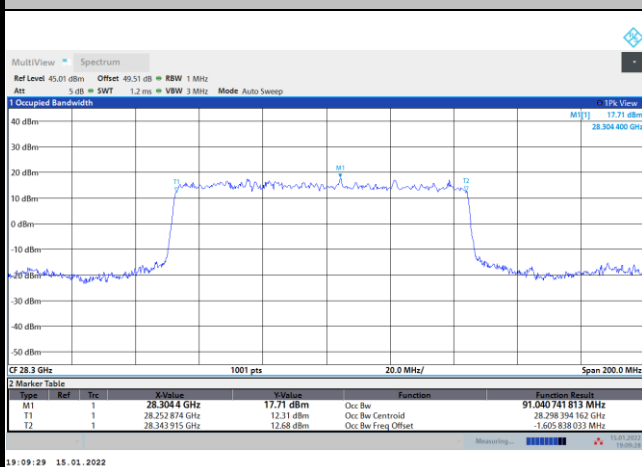
Middle Channel / 100MHz / BPSK



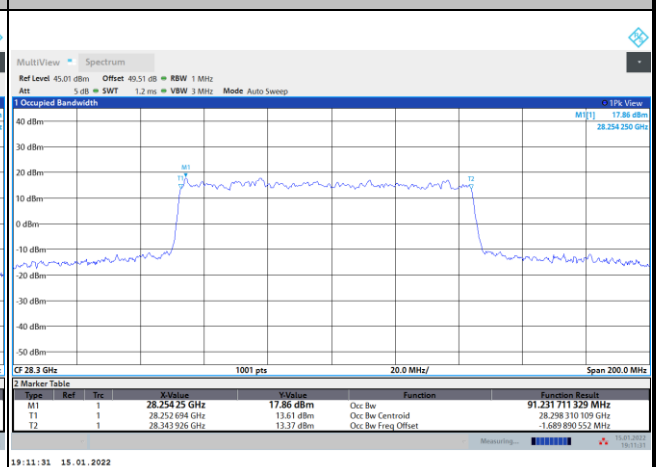
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

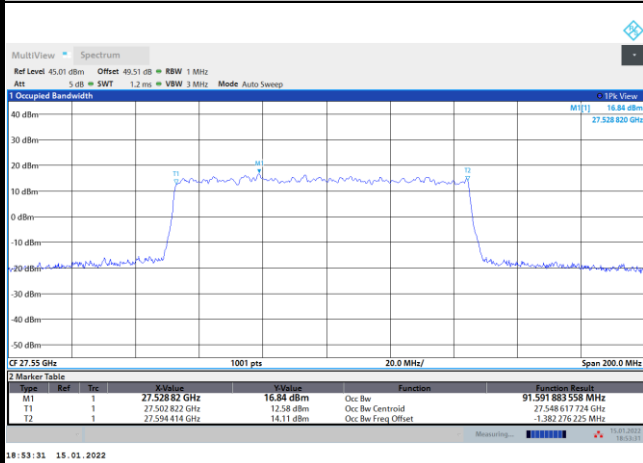




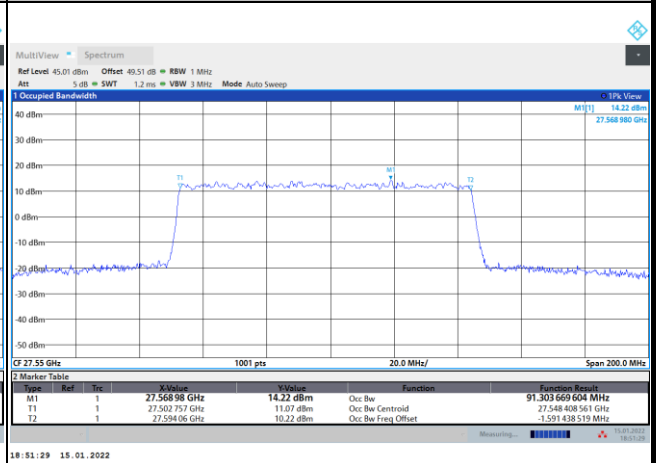
DFT-s-OFDM Module 1

NR Band n261

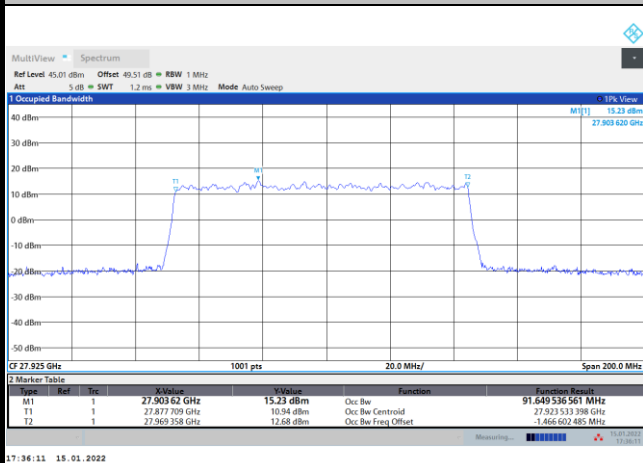
Lowest Channel / 100MHz / 16QAM



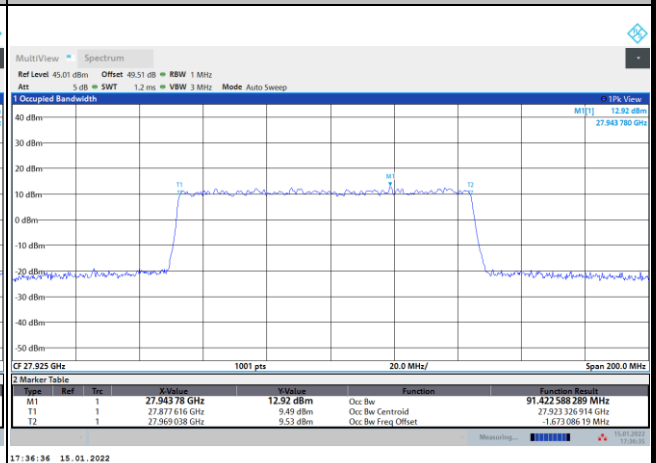
Lowest Channel / 100MHz / 64QAM



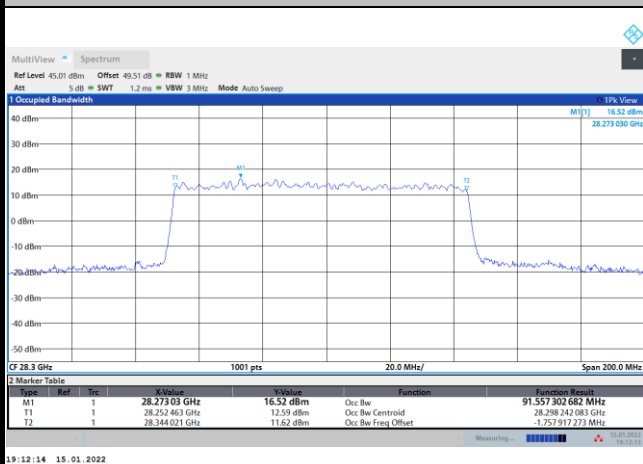
Middle Channel / 100MHz / 16QAM



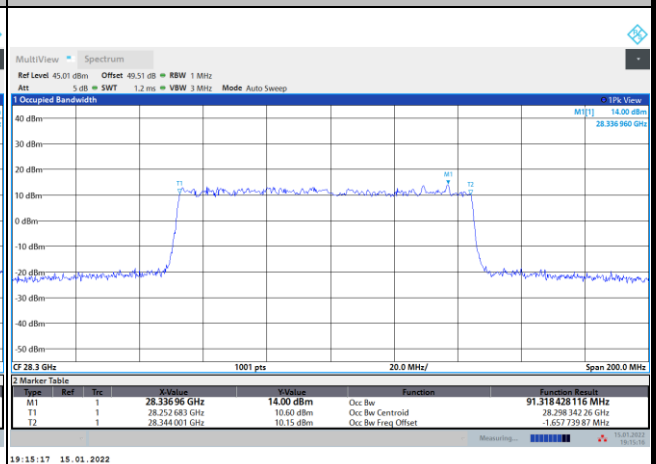
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM





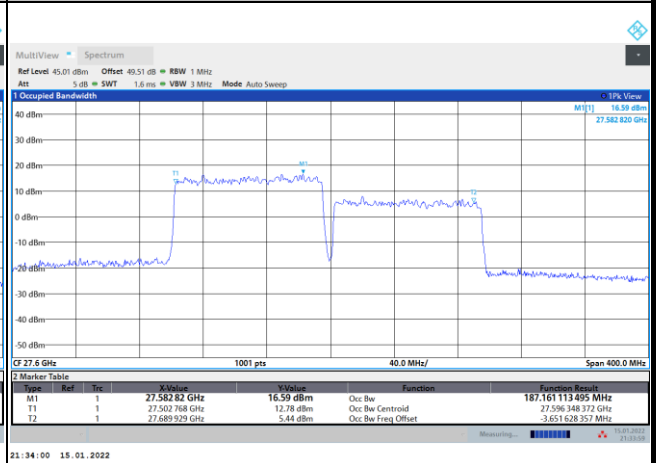
DFT-s-OFDM Module 1

NR Band n261

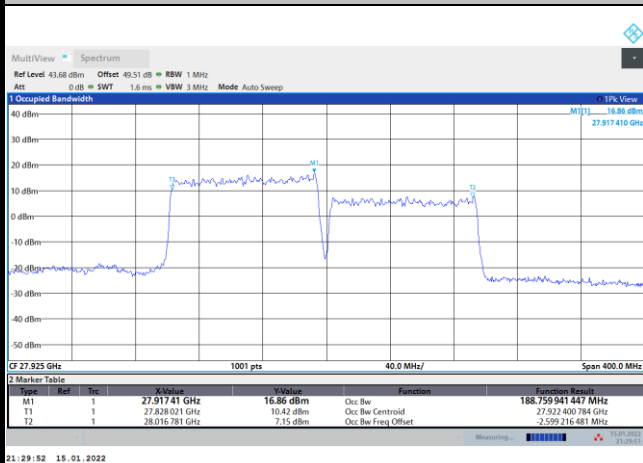
Lowest Channel / 200MHz / BPSK



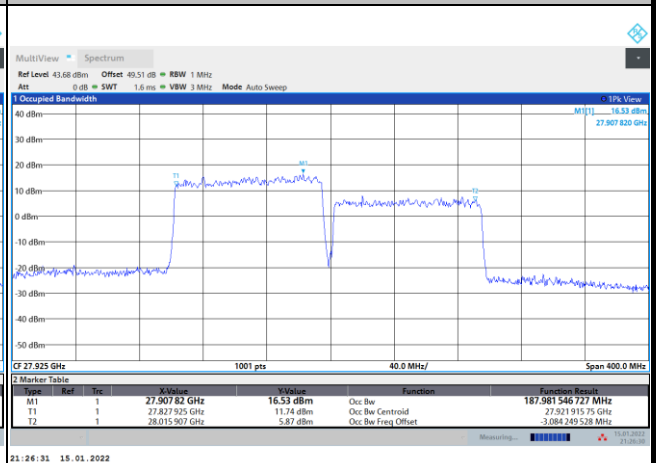
Lowest Channel / 200MHz / QPSK



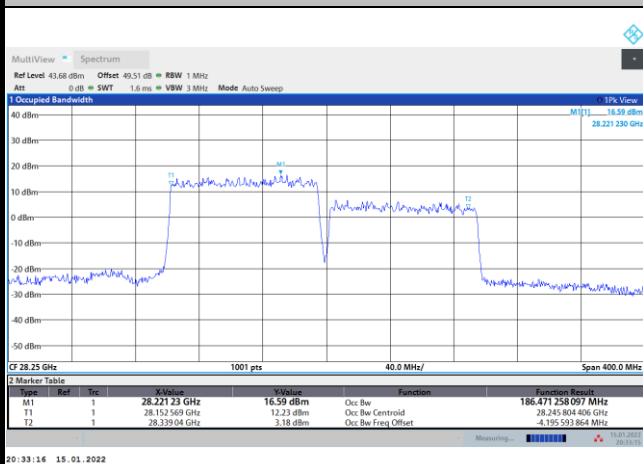
Middle Channel / 200MHz / BPSK



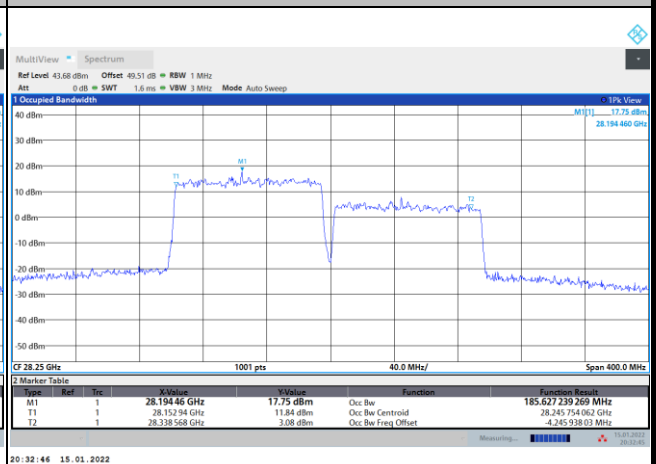
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

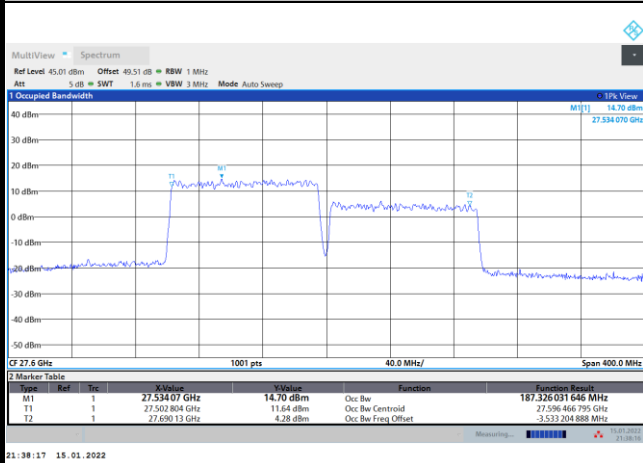




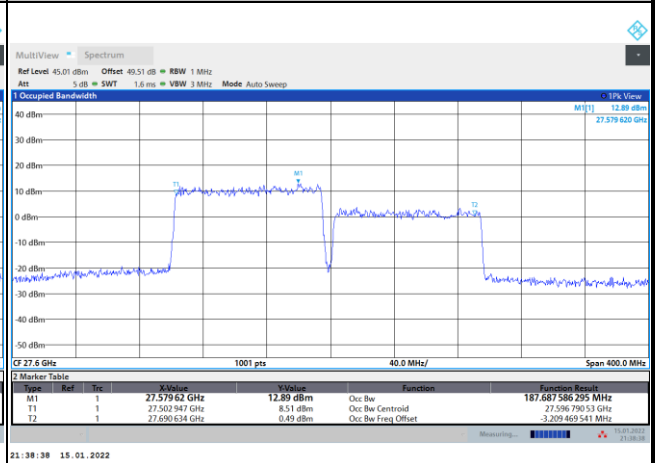
DFT-s-OFDM Module 1

NR Band n261

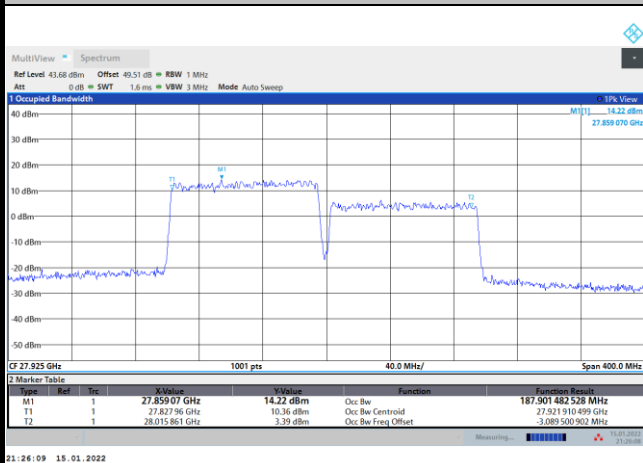
Lowest Channel / 200MHz / 16QAM



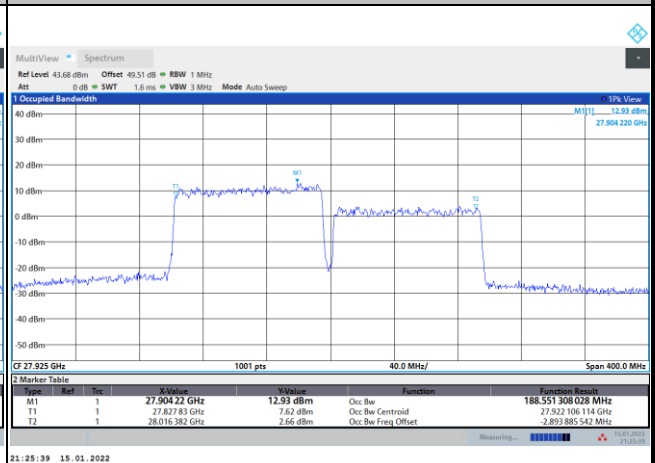
Lowest Channel / 200MHz / 64QAM



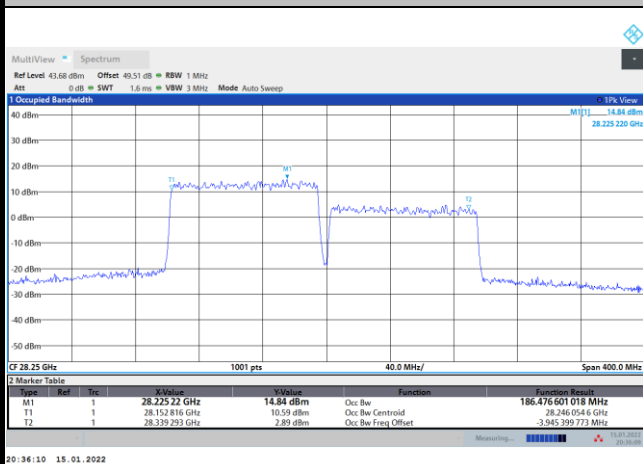
Middle Channel / 200MHz / 16QAM



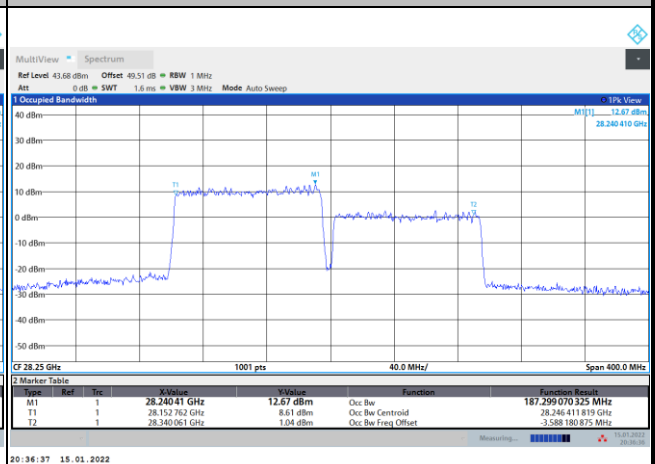
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM





CP-OFDM Module 1

