

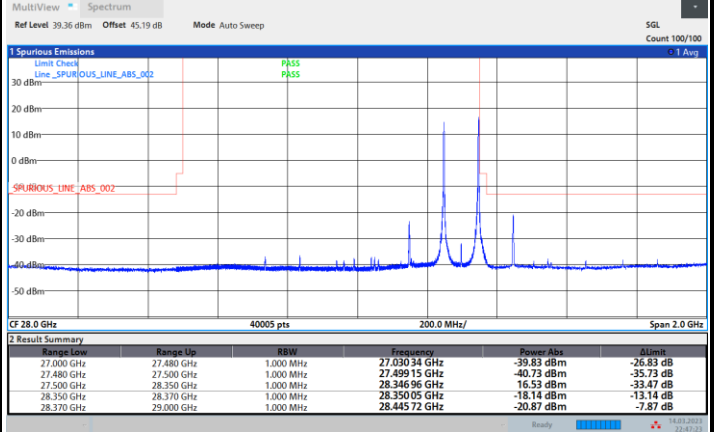
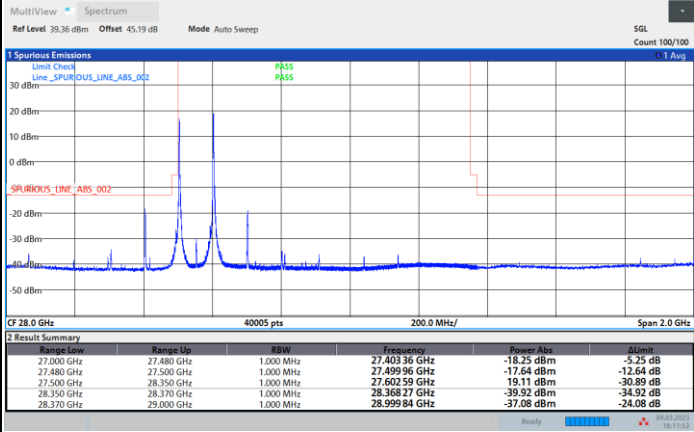


CP-OFDM Module 0

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

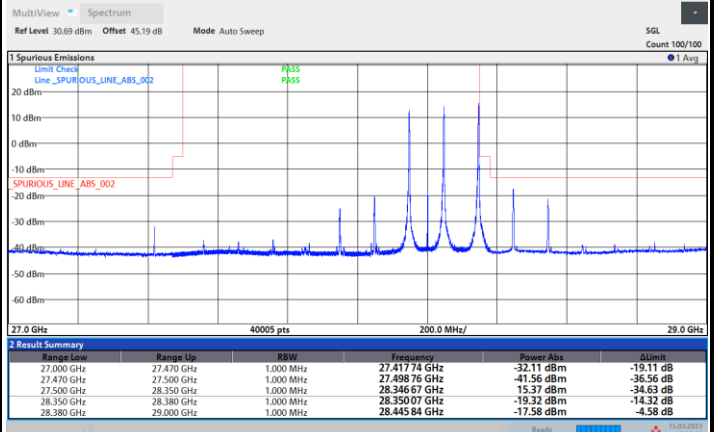
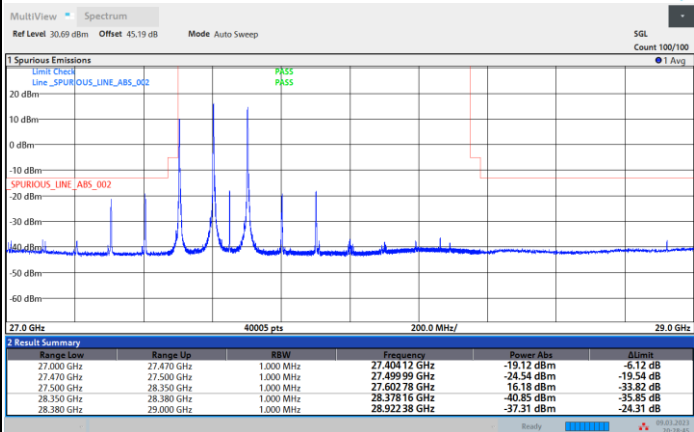
Highest Band Edge / 1 RB



NR Band n261 / 300MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



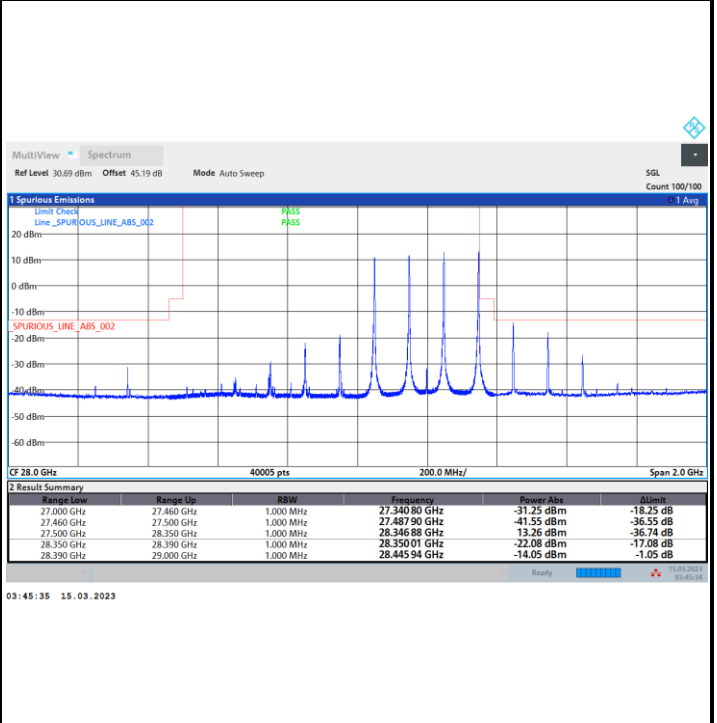
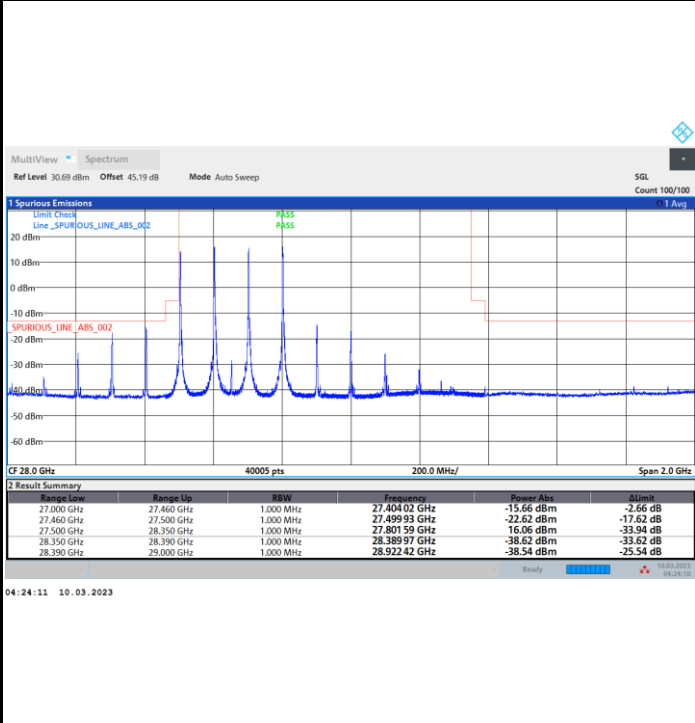


CP-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



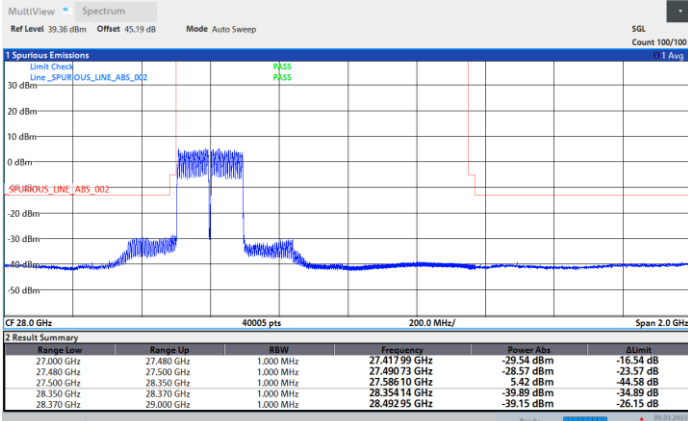


DFT-s-OFDM Module 0

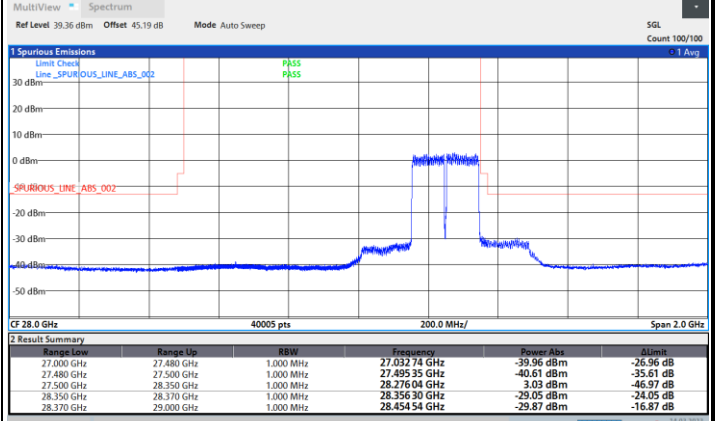
NR Band n261 / 200MHz / BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



18:24:09 09.03.2023

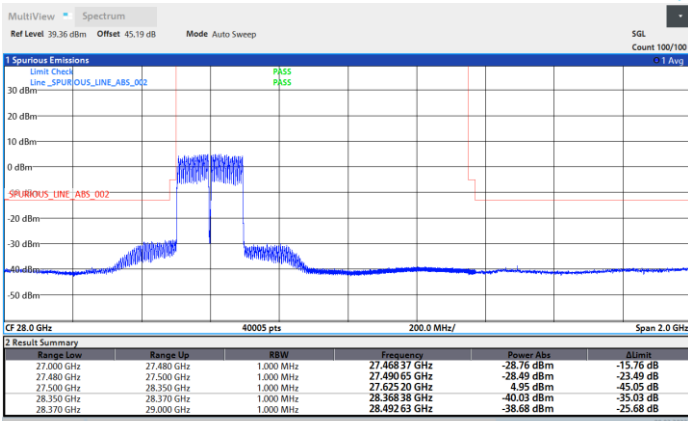


22:56:31 14.03.2023

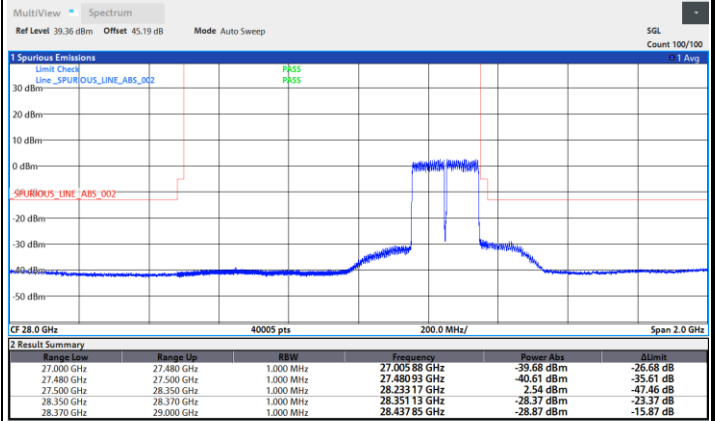
NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



18:21:58 09.03.2023



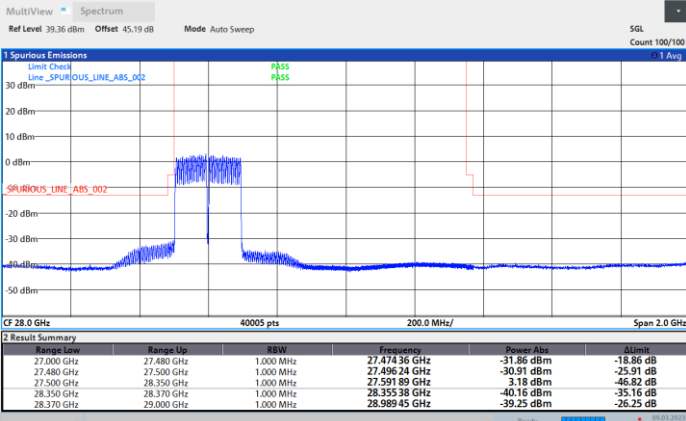
22:50:26 14.03.2023



DFT-s-OFDM Module 0

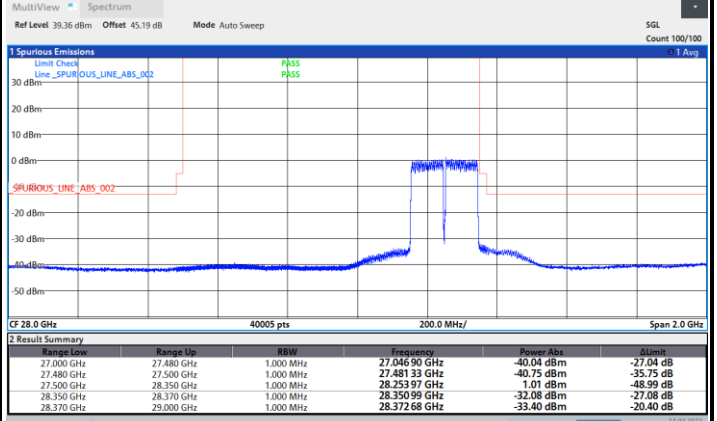
NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB



18:59:03 09.03.2023

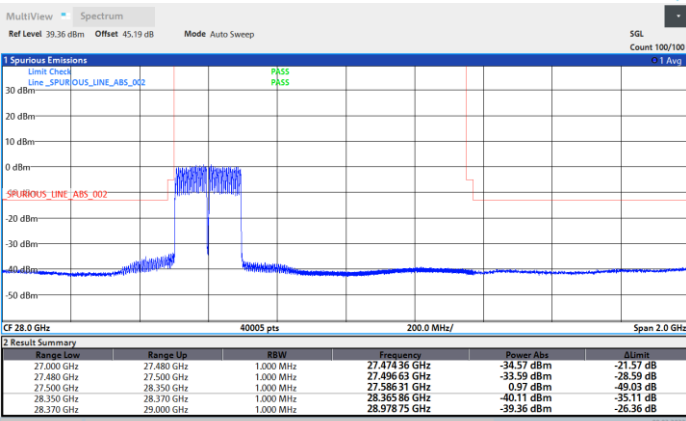
Highest Band Edge / Full RB



22:54:13 14.03.2023

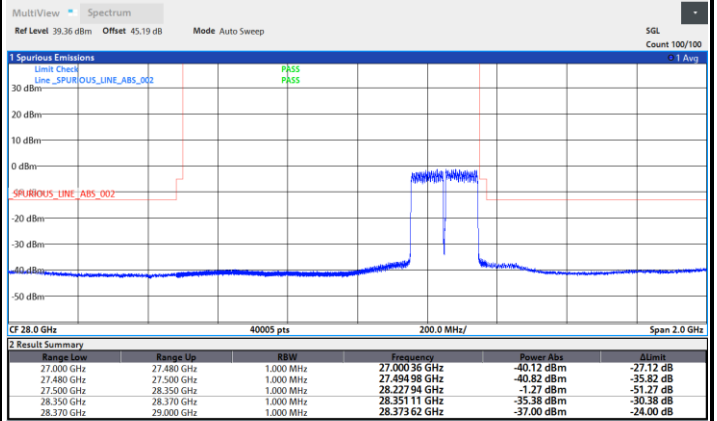
NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB



19:00:27 09.03.2023

Highest Band Edge / Full RB



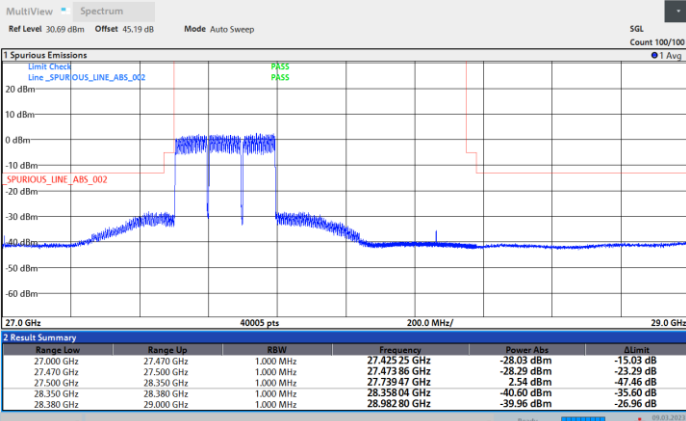
22:55:11 14.03.2023



DFT-s-OFDM Module 0

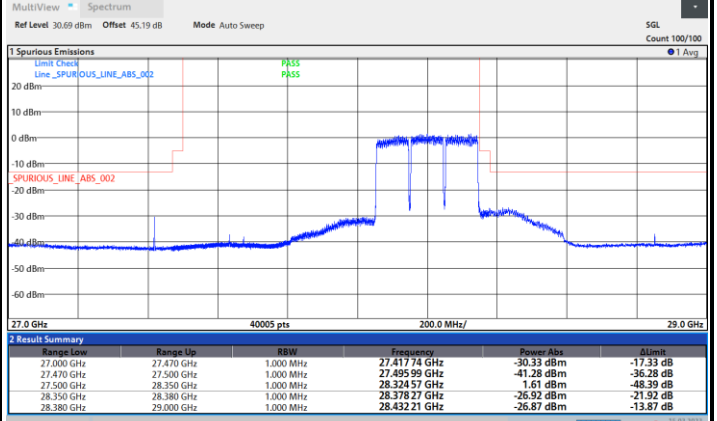
NR Band n261 / 300MHz / BPSK

Lowest Band Edge / Full RB



20:35:16 09.03.2023

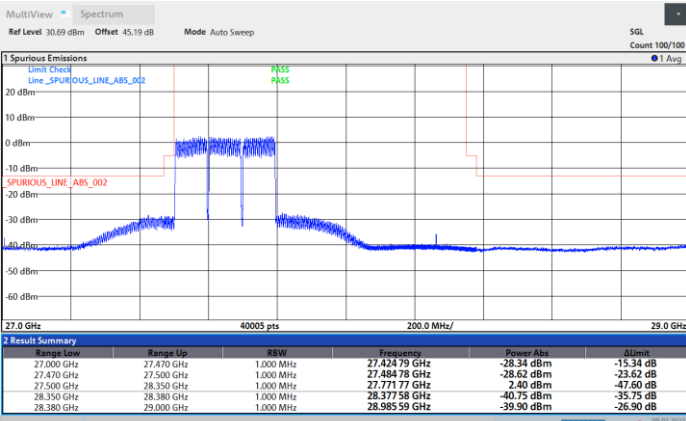
Highest Band Edge / Full RB



01:02:34 15.03.2023

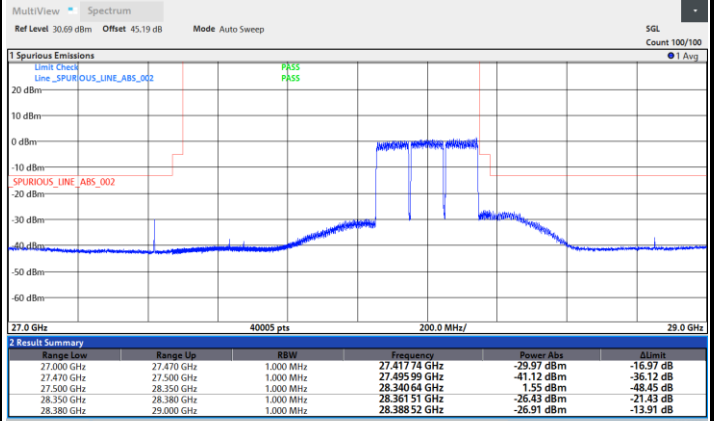
NR Band n261 / 300MHz / QPSK

Lowest Band Edge / Full RB



20:31:17 09.03.2023

Highest Band Edge / Full RB



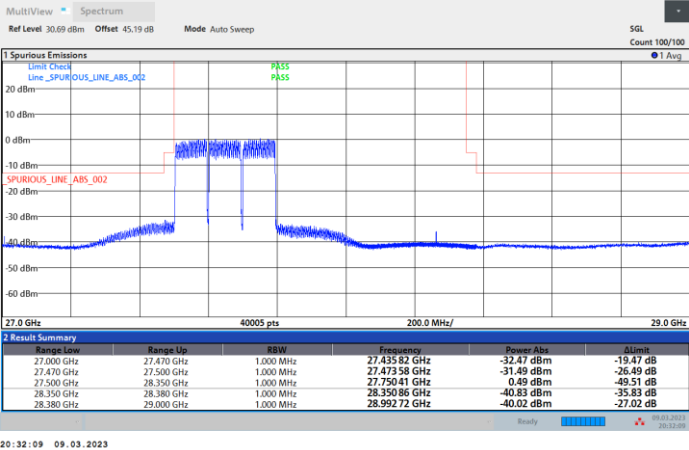
00:26:46 15.03.2023



DFT-s-OFDM Module 0

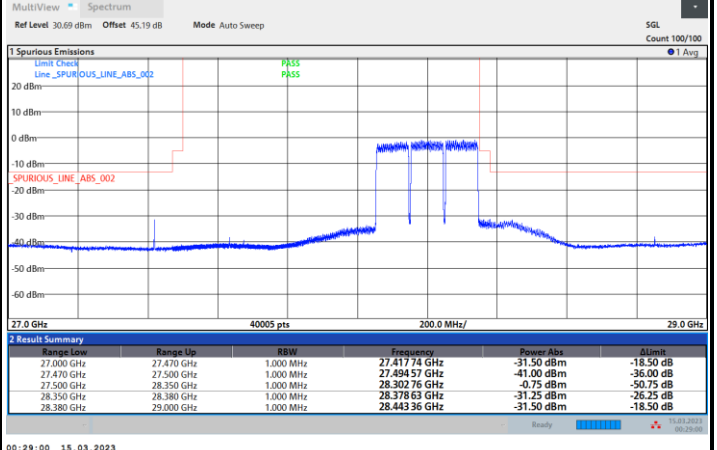
NR Band n261 / 300MHz / 16QAM

Lowest Band Edge / Full RB



20:32:09 09.03.2023

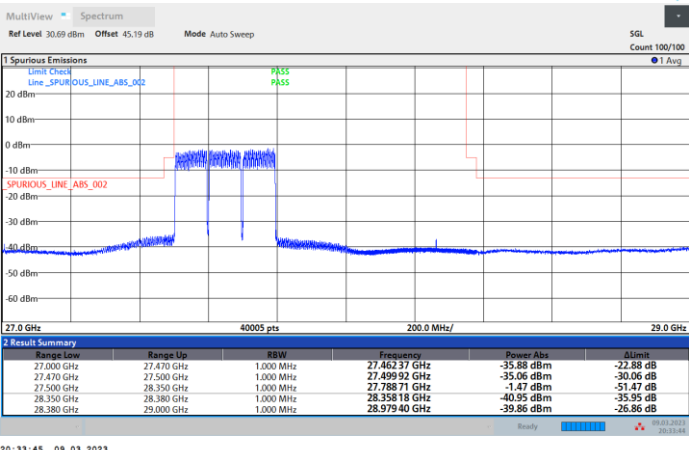
Highest Band Edge / Full RB



00:29:00 15.03.2023

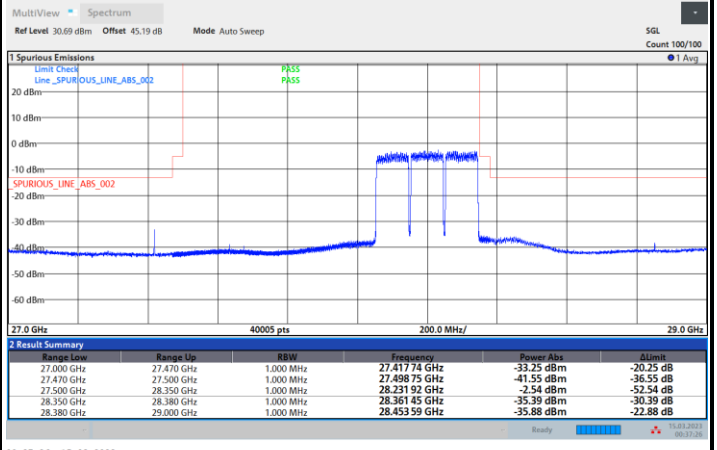
NR Band n261 / 300MHz / 64QAM

Lowest Band Edge / Full RB



20:33:45 09.03.2023

Highest Band Edge / Full RB



00:37:26 15.03.2023

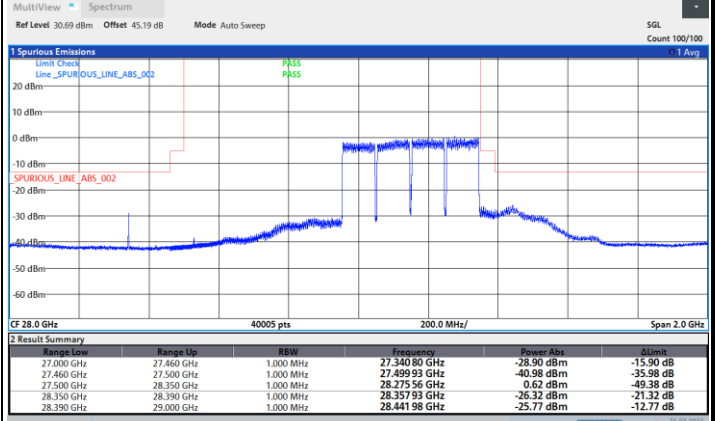
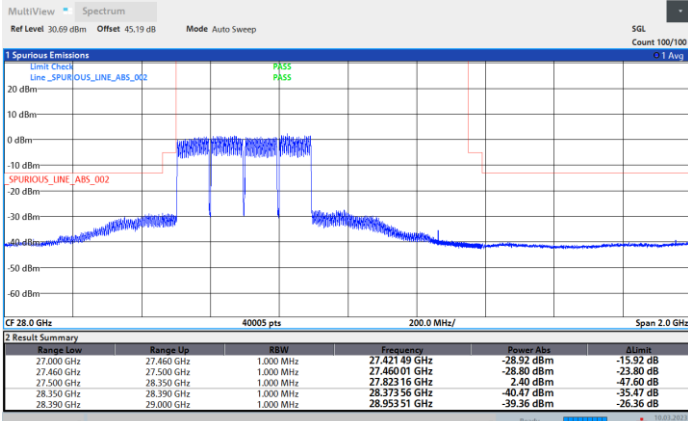


DFT-s-OFDM Module 0

NR Band n261 / 400MHz / BPSK

Lowest Band Edge / Full RB

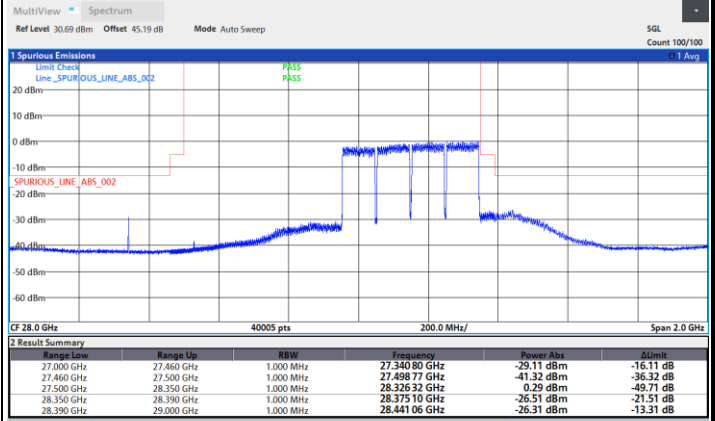
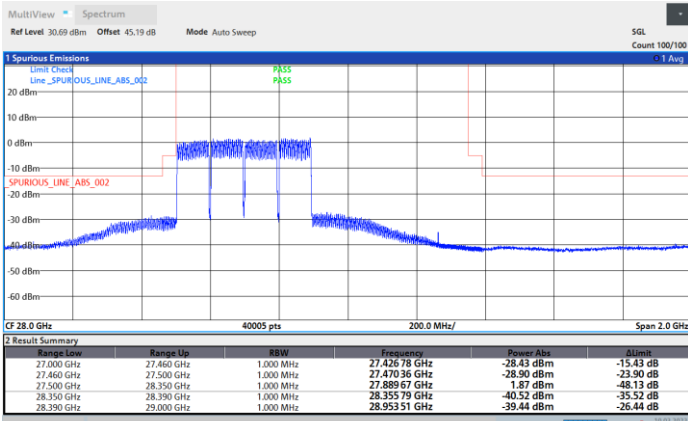
Highest Band Edge / Full RB



NR Band n261 / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

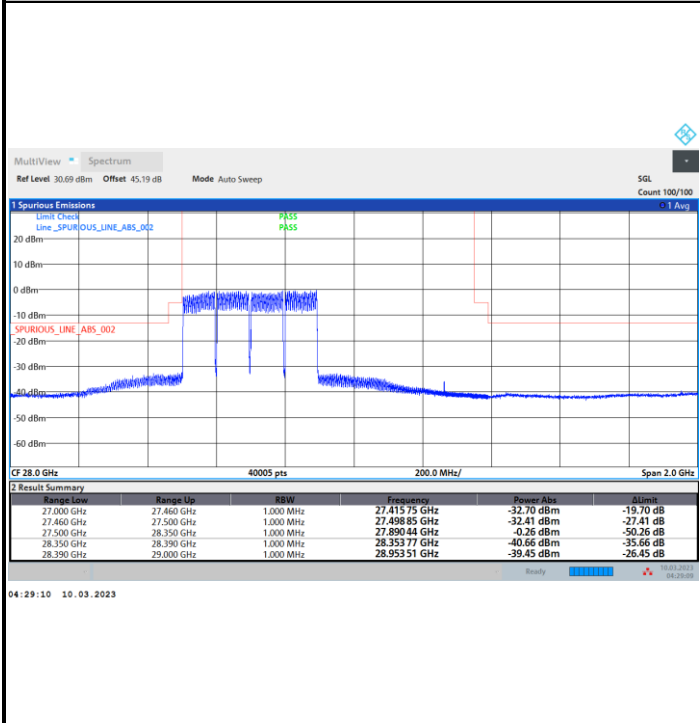




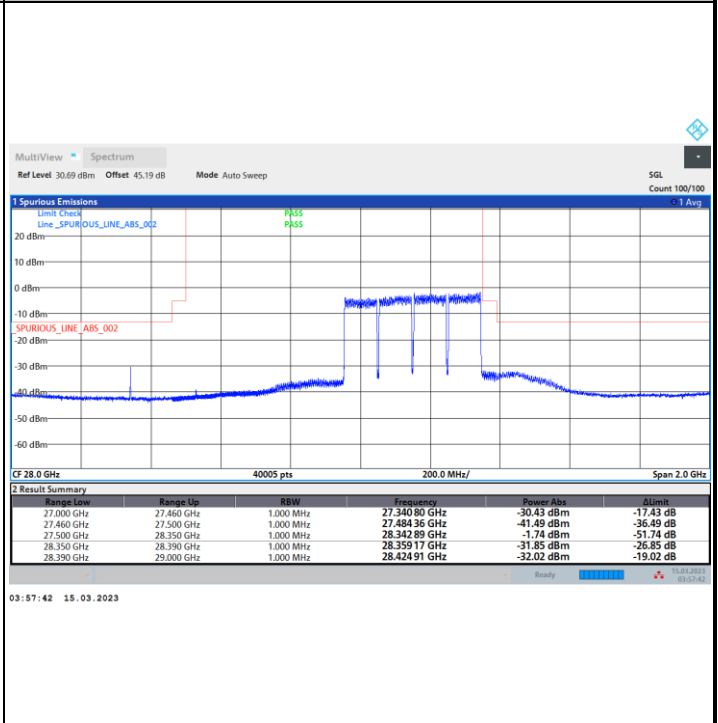
DFT-s-OFDM Module 0

NR Band n261 / 400MHz / 16QAM

Lowest Band Edge / Full RB

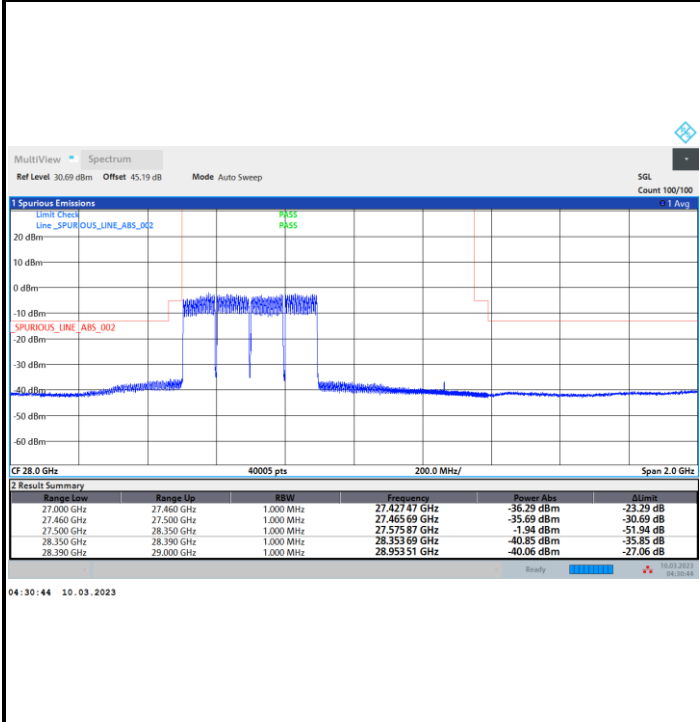


Highest Band Edge / Full RB

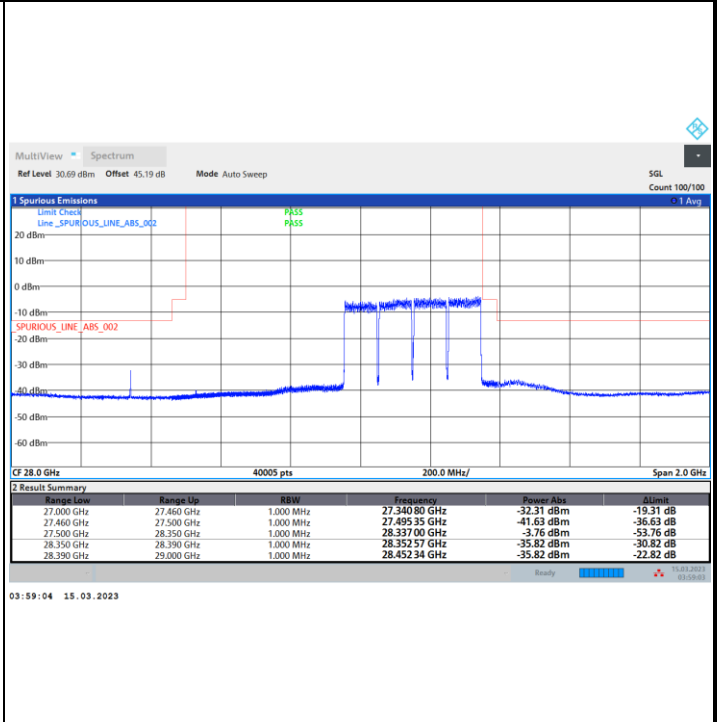


NR Band n261 / 400MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

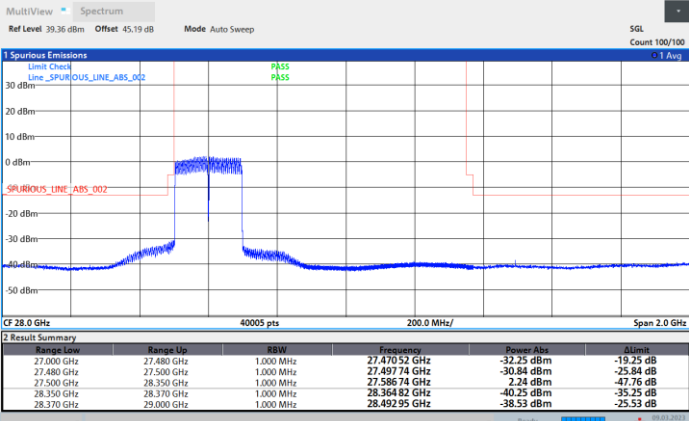




CP-OFDM Module 0

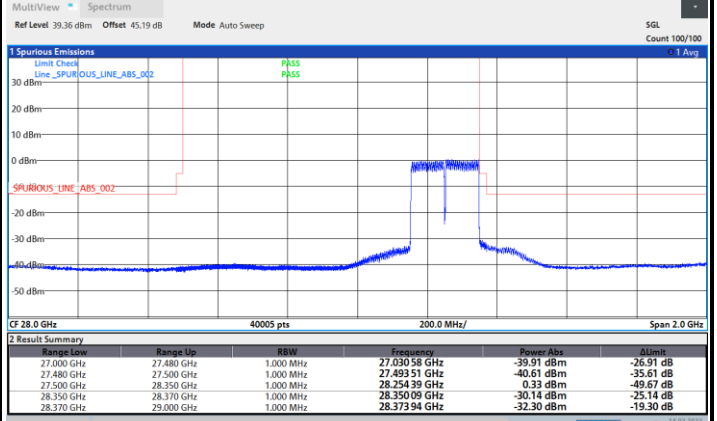
NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



18:12:45 09.03.2023

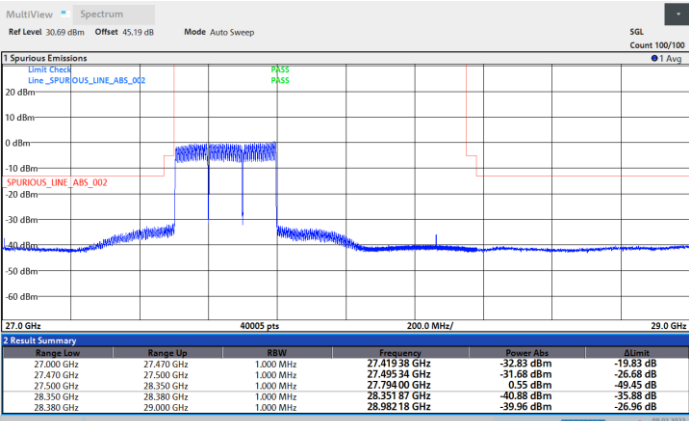
Highest Band Edge / Full RB



22:49:21 14.03.2023

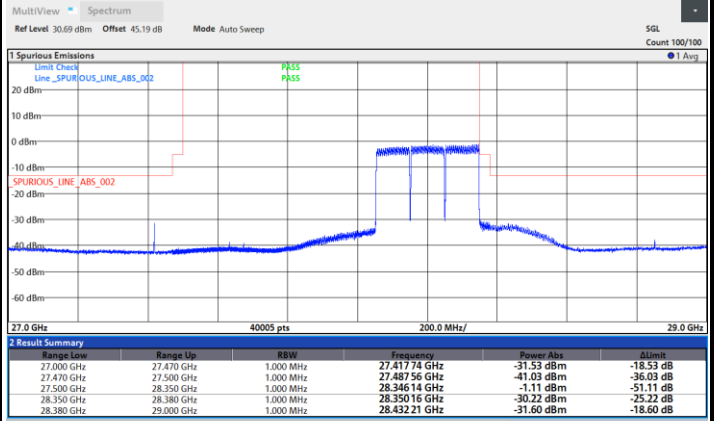
NR Band n261 / 300MHz / QPSK

Lowest Band Edge / Full RB



20:29:41 09.03.2023

Highest Band Edge / Full RB



00:19:33 15.03.2023

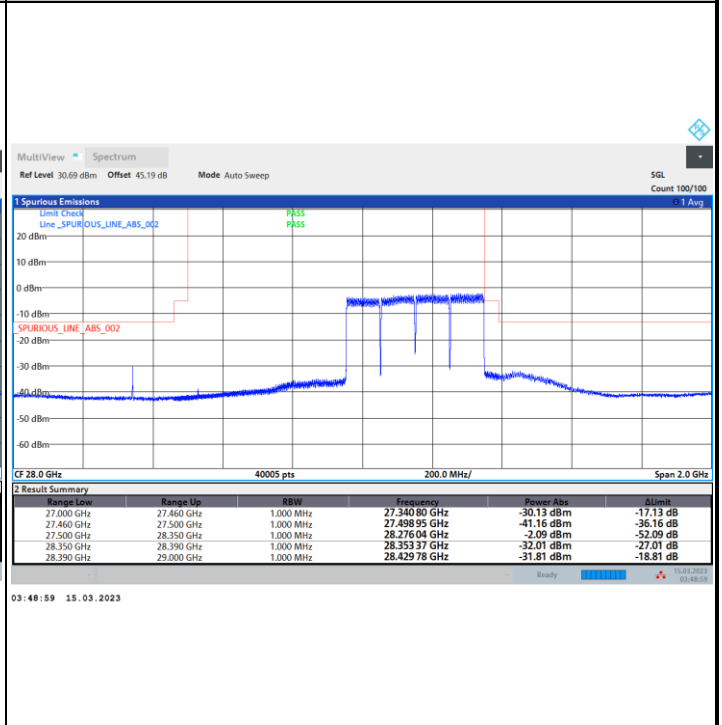
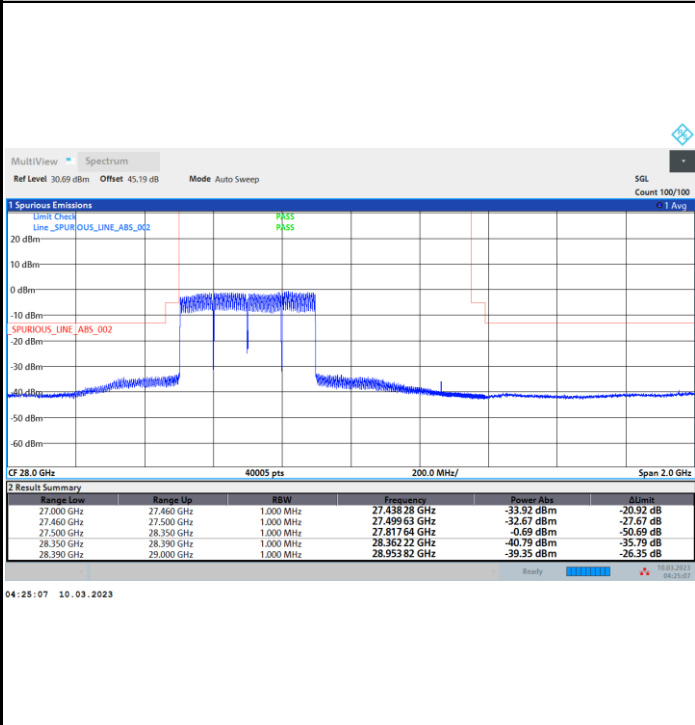


CP-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

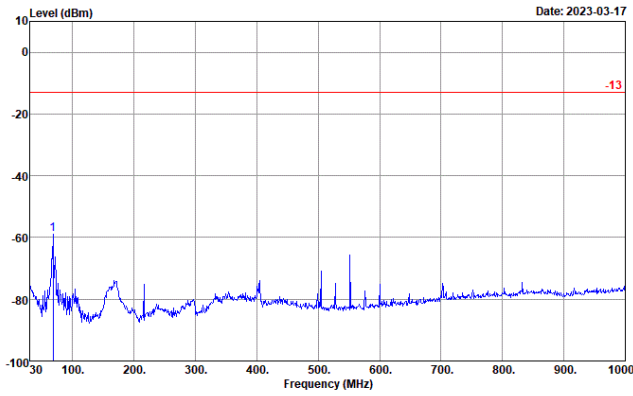




Spurious Emission

NR Band n261 (30MHz-1GHz)

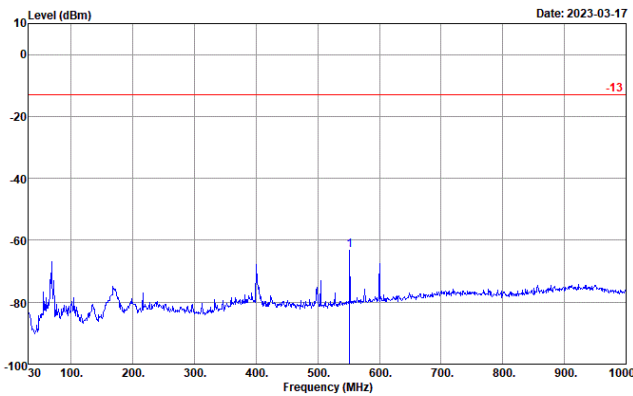
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit	Read	
MHz	dBm	dB	dBm	dBm	
1	67.83	-58.92	-45.92	-13.00	-53.96

Vertical



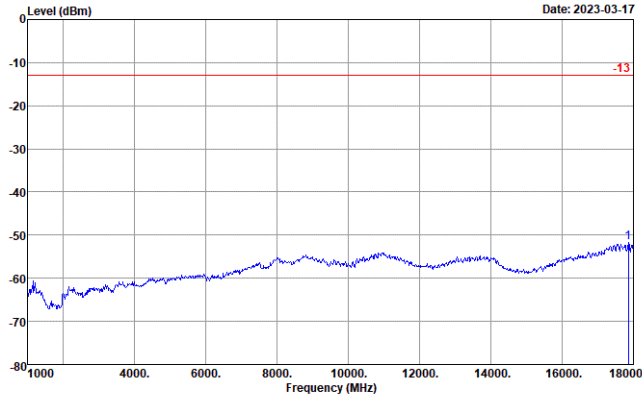
Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit	Read	
MHz	dBm	dB	dBm	dBm	
1	551.86	-63.37	-50.37	-13.00	-67.28



NR Band n261 (1GHz-18GHz)

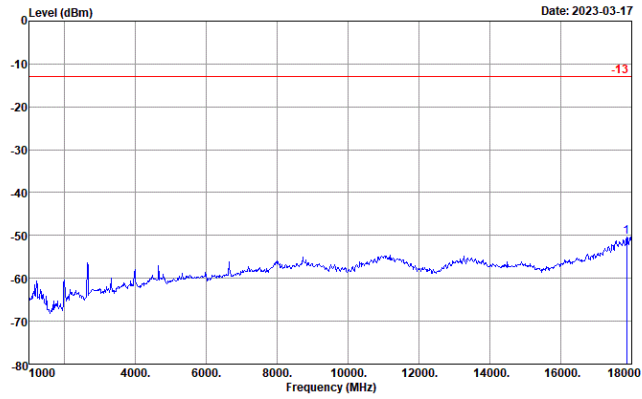
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit	Read
MHz	dBm	Limit	Line	Level
MHz	dBm	dB	dBm	dBm
1 17864.00	-51.60	-38.60	-13.00	-65.75

Vertical



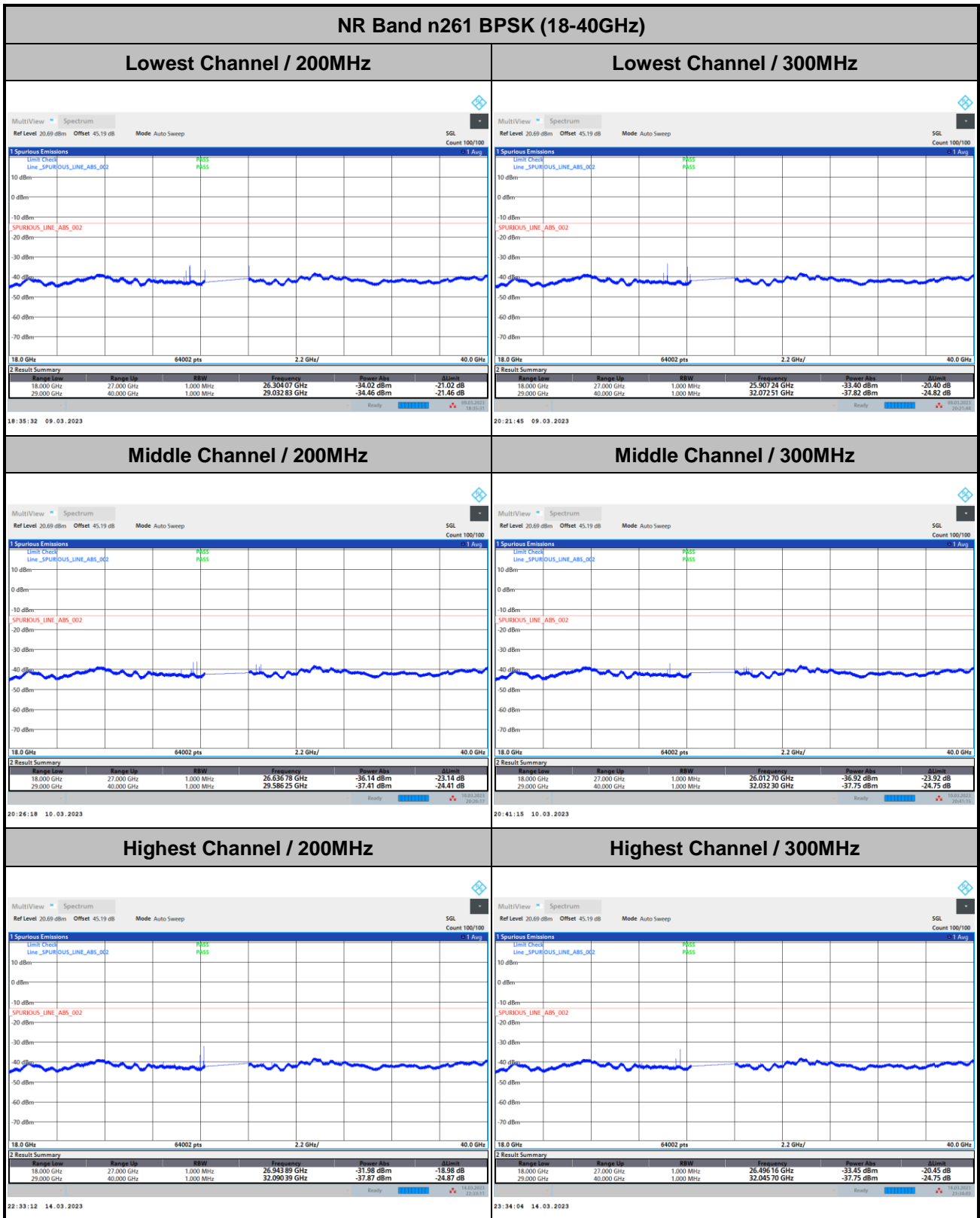
Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit	Read
MHz	dBm	Limit	Line	Level
MHz	dBm	dB	dBm	dBm
1 17864.00	-50.36	-37.36	-13.00	-67.07



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

DFT-s-OFDM Module 0



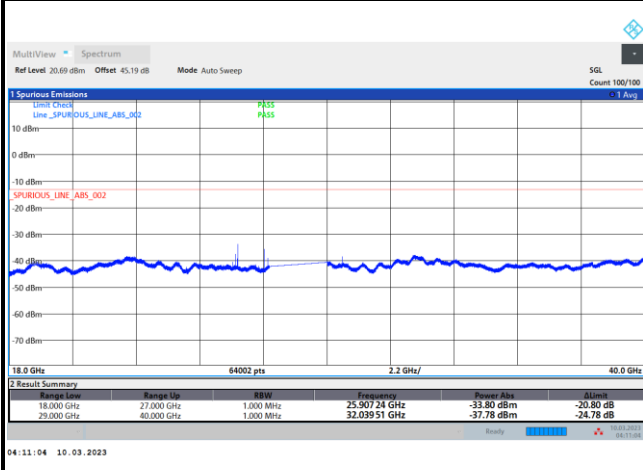
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 0

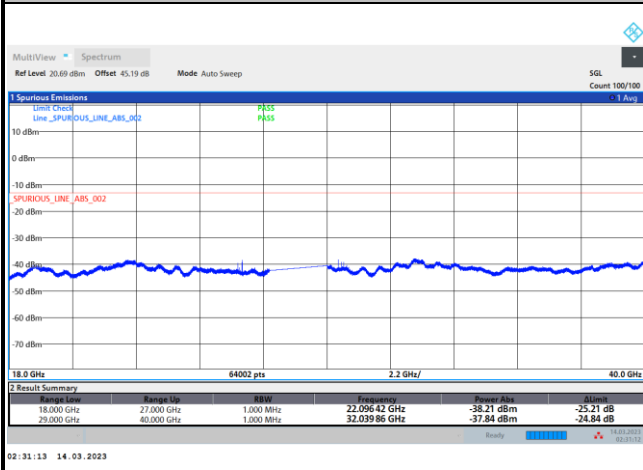
NR Band n261 BPSK (18-40GHz)

Lowest Channel / 400MHz



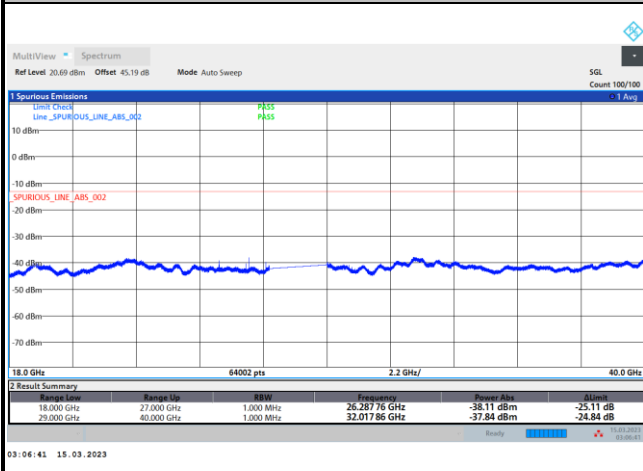
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



intentionally blank

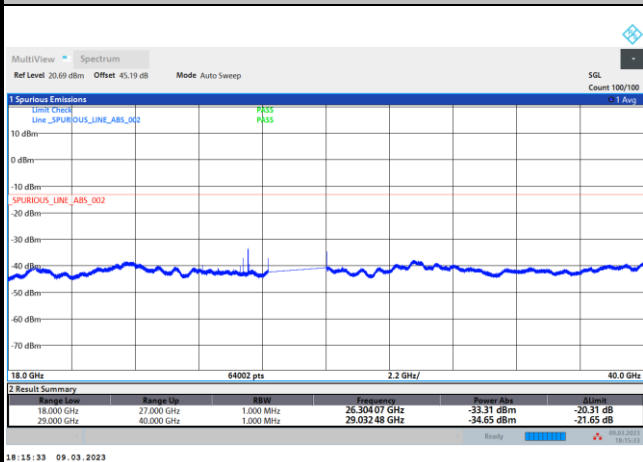
Remark: In band and out of band frequencies are omitted.



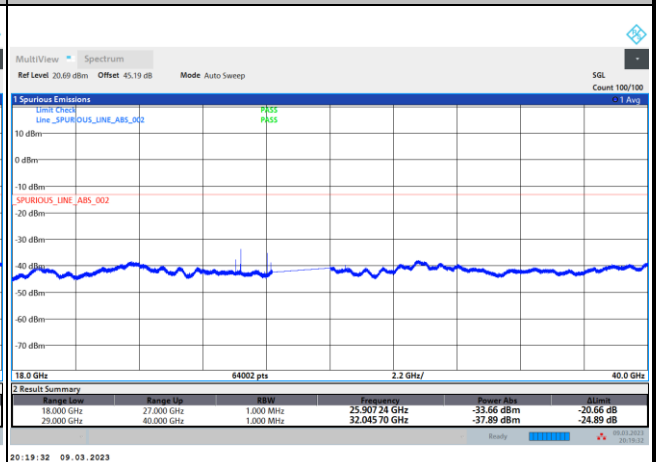
DFT-s-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

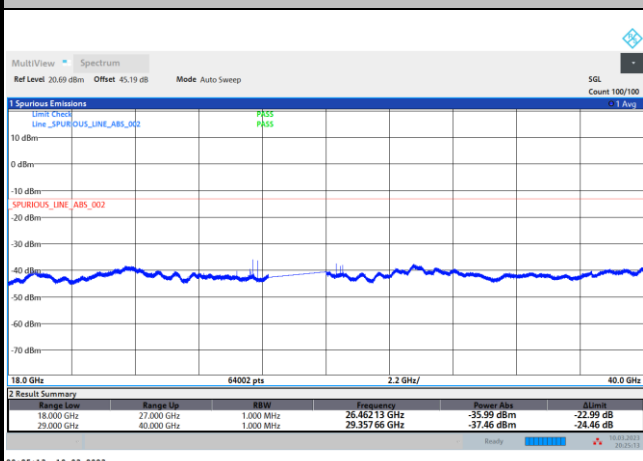
Lowest Channel / 200MHz



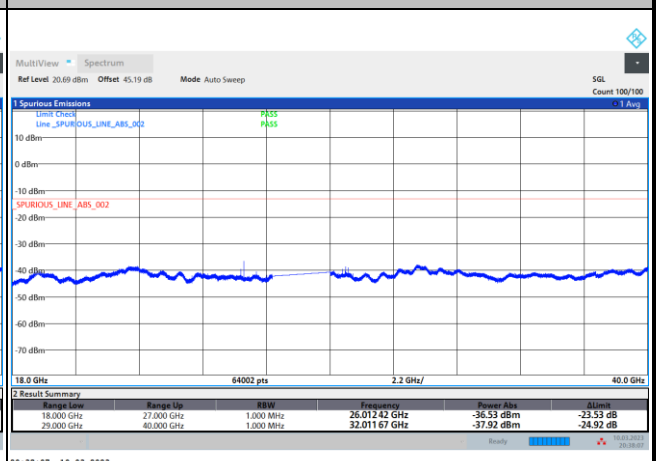
Lowest Channel / 300MHz



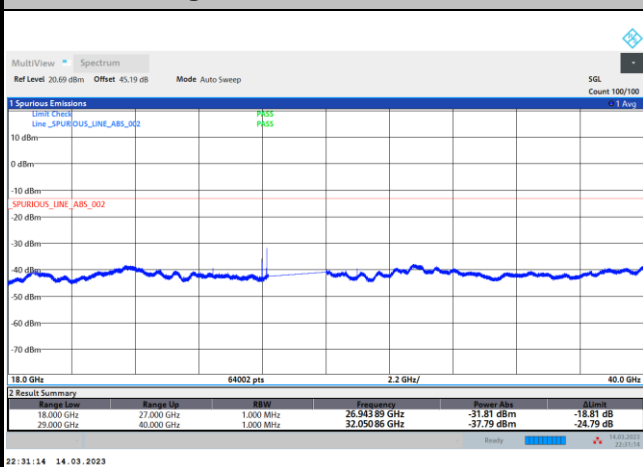
Middle Channel / 200MHz



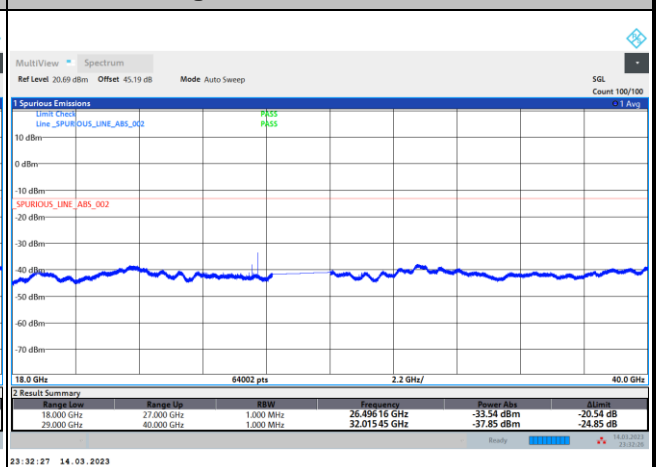
Middle Channel / 300MHz



Highest Channel / 200MHz



Highest Channel / 300MHz



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



DFT-s-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

Lowest Channel / 400MHz



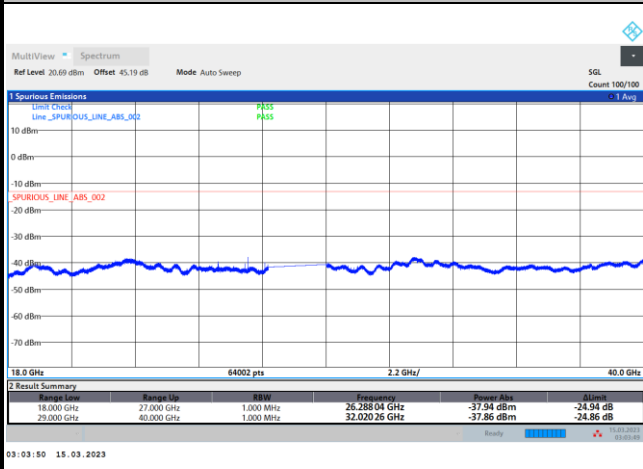
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



intentionally blank

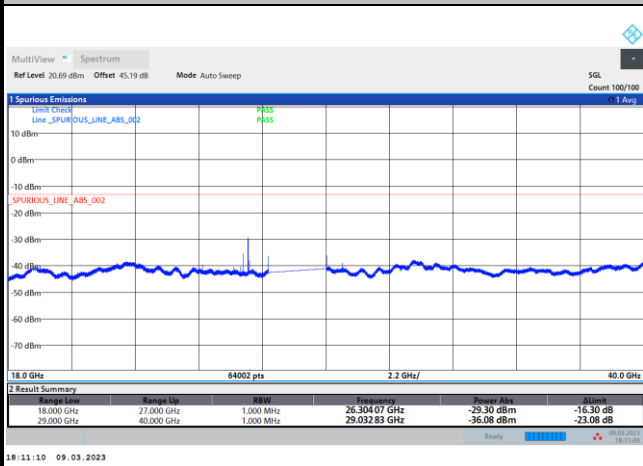
Remark: In band and out of band frequencies are omitted.



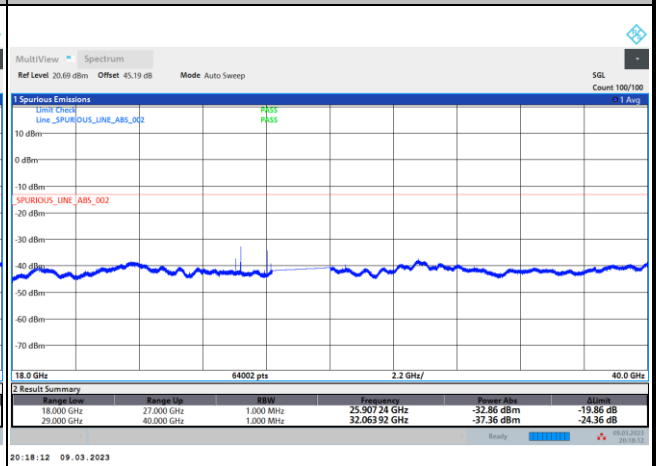
CP-OFDM Module 0

NR Band n261 QPSK (18-40GHz)

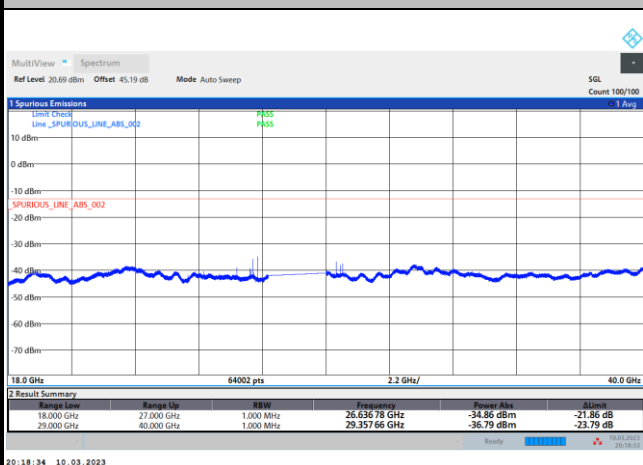
Lowest Channel / 200MHz



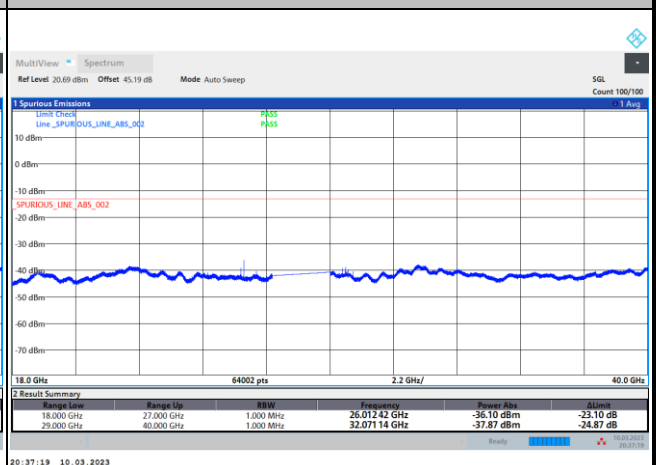
Lowest Channel / 300MHz



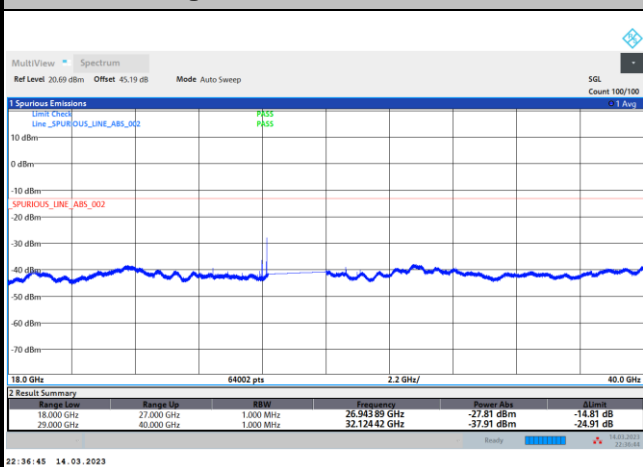
Middle Channel / 200MHz



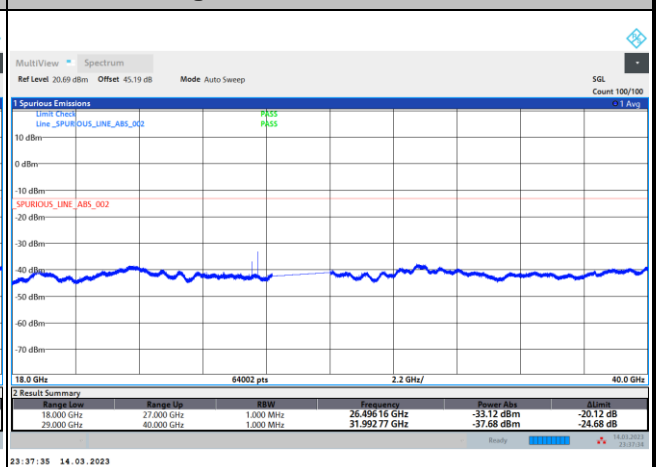
Middle Channel / 300MHz



Highest Channel / 200MHz



Highest Channel / 300MHz



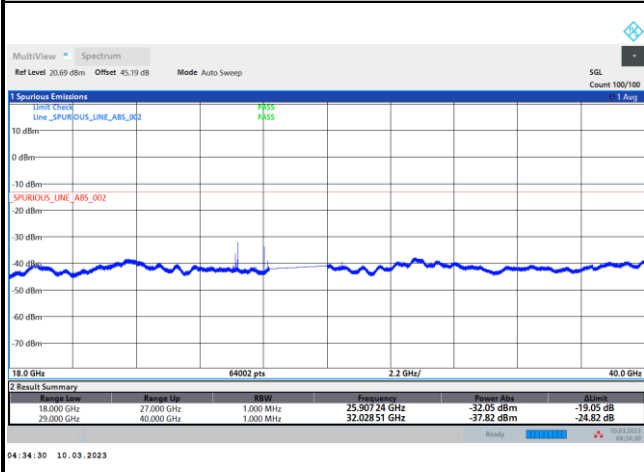
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module 0

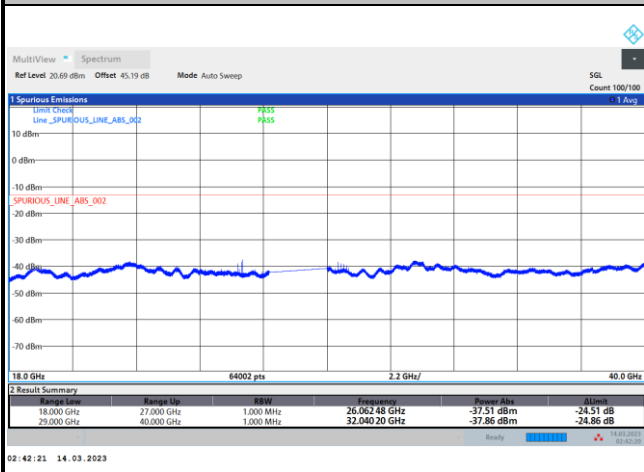
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 400MHz



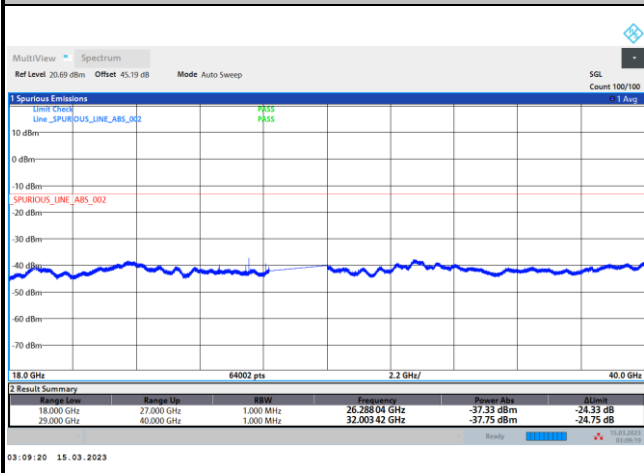
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Middle Channel / 400MHz



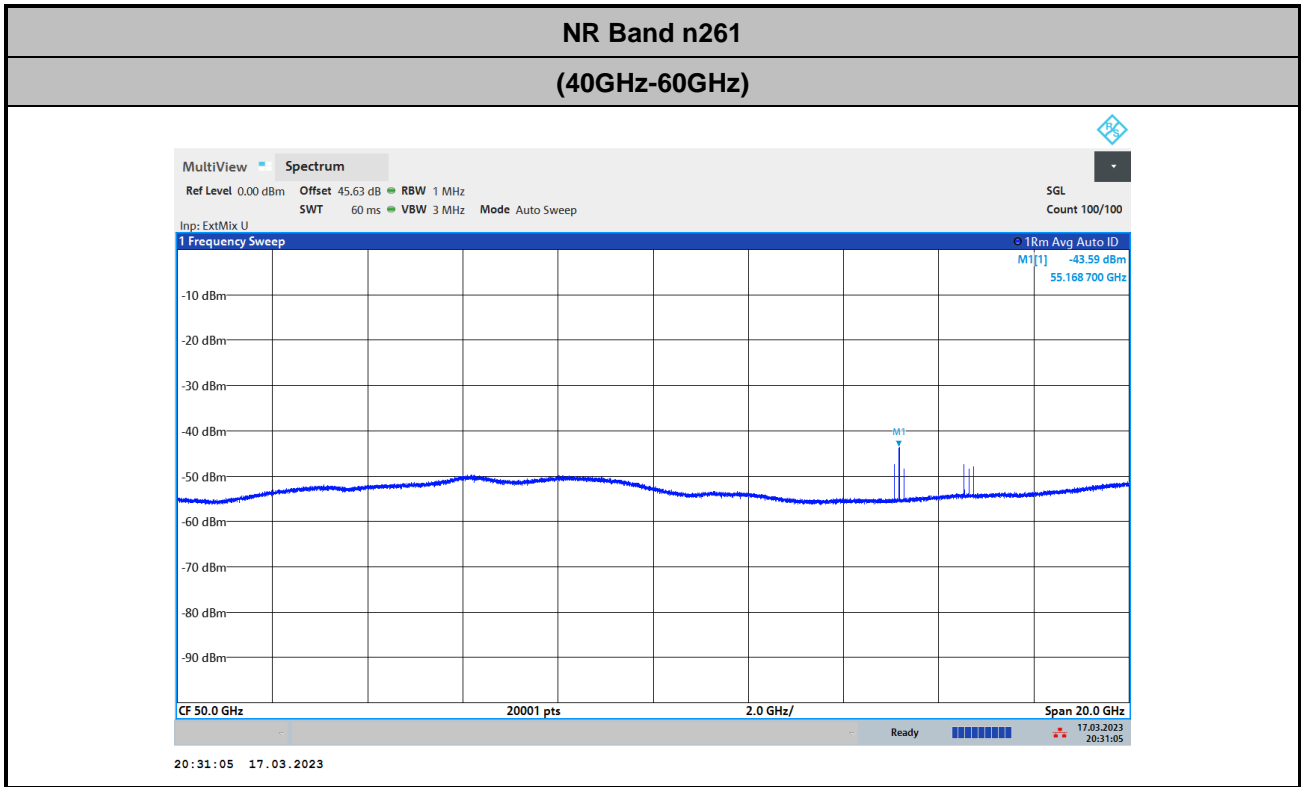
intentionally blank

Highest Channel / 400MHz

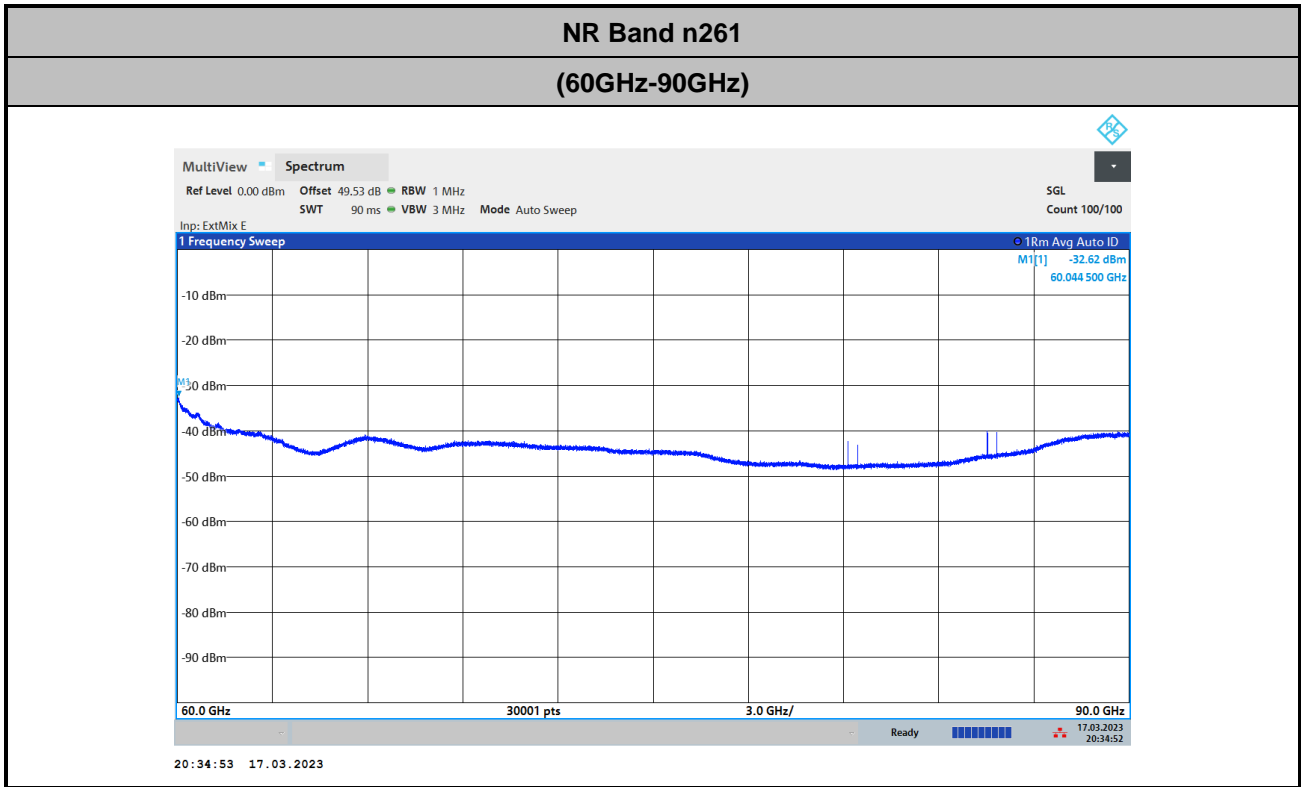


intentionally blank

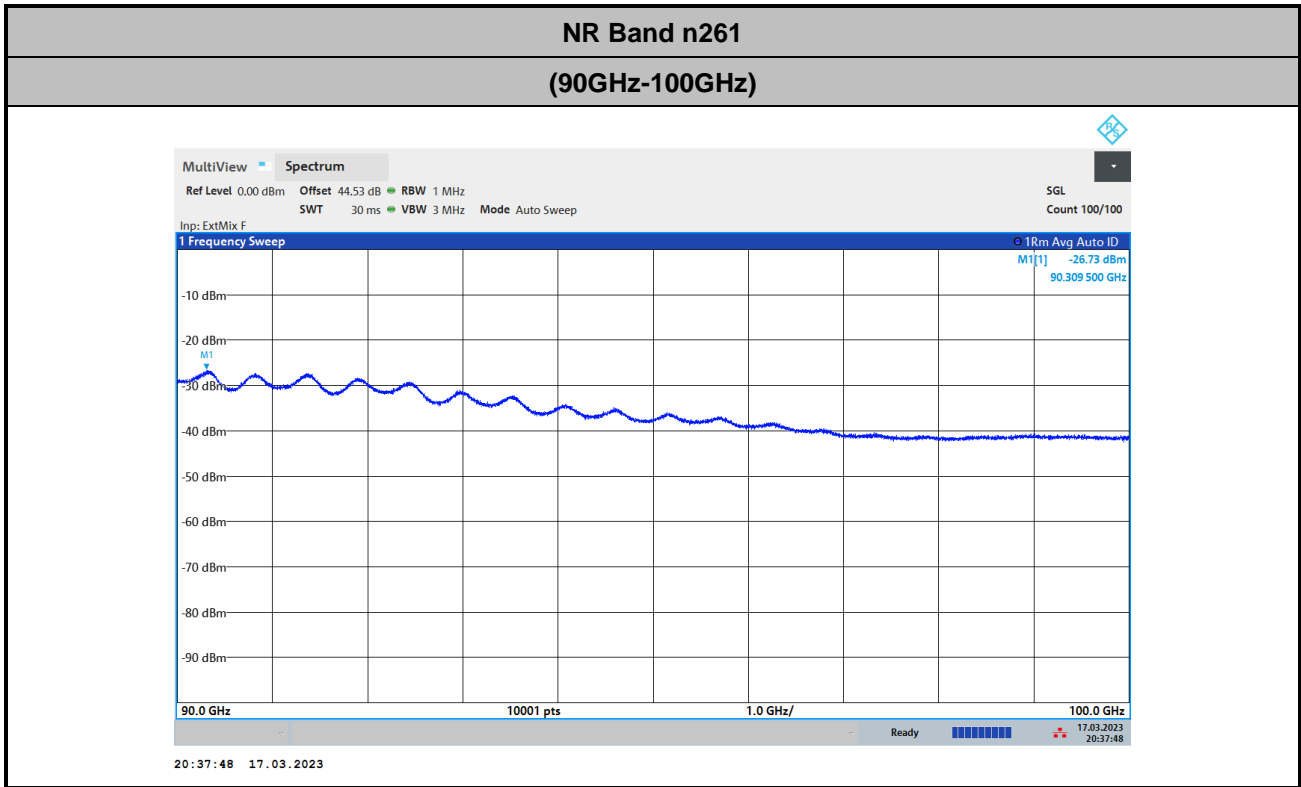
Remark: In band and out of band frequencies are omitted.



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



$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$
$$= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 = 49.53 \text{ (dB)}$$



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



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	27.924989	11.000	0.394	PASS
40	Normal Voltage	27.924976	24.000	0.859	
30	Normal Voltage	27.924988	12.000	0.430	
20(Ref.)	Normal Voltage	27.925	0.000	0.000	
10	Normal Voltage	27.925009	-9.000	0.322	
0	Normal Voltage	27.9250599	-59.900	2.145	
-10	Normal Voltage	27.9251289	-128.900	4.616	
-20	Normal Voltage	27.9251618	-161.800	5.794	
-30	Normal Voltage	27.9252243	-224.300	8.032	
20	Maximum Voltage	27.924991	9.000	0.322	
20	Normal Voltage	27.924998	2.000	0.072	
20	Battery End Point	27.925001	-1.000	0.036	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the operation band.



NR Band n261 Module 1 AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)											
BW	200MHz				300MHz				400MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	186.93	186.92	187.14	186.89	287.39	287.34	286.73	285.58	388.34	387.58	387.74	387.83
Middle CH	190.38	190.27	190.31	190.2	289.58	289.97	289.58	289.86	387.58	387.97	387.58	387.72
Highest CH	190.52	190.46	190.79	190.27	289.4	288.73	289.13	288.58	388.21	388.16	387.96	387.68

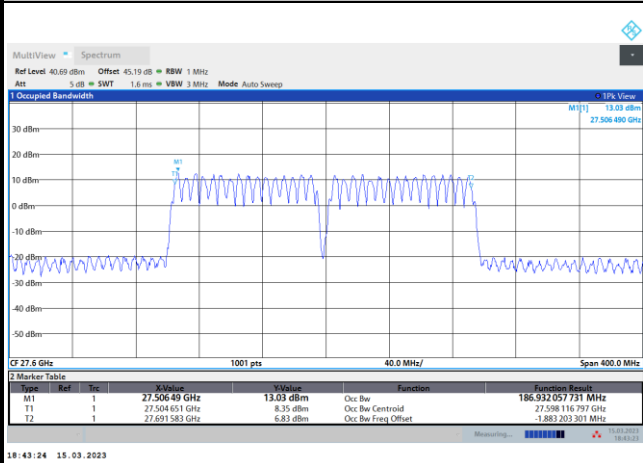
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	200MHz		300MHz		400MHz	
Mod.	QPSK		QPSK		QPSK	
Lowest CH	191.58		289.85		389.64	
Middle CH	190.35		290.53		390.97	
Highest CH	191.41		290.36		389.94	



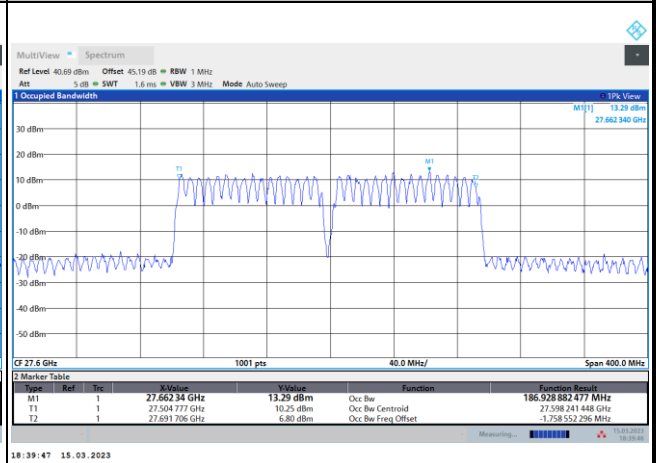
DFT-s-OFDM Module 1

NR Band n261

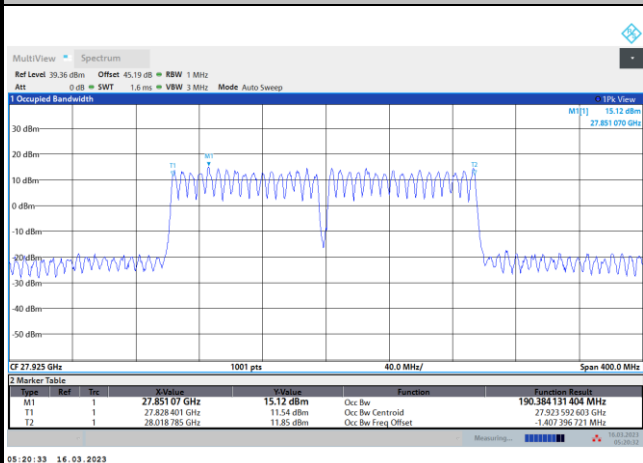
Lowest Channel / 200MHz / BPSK



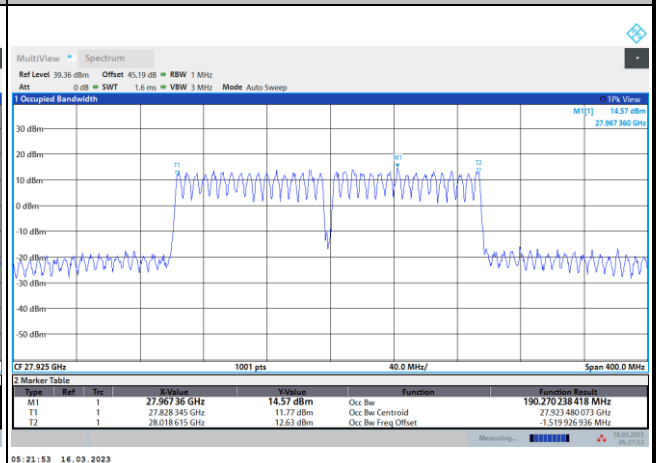
Lowest Channel / 200MHz / QPSK



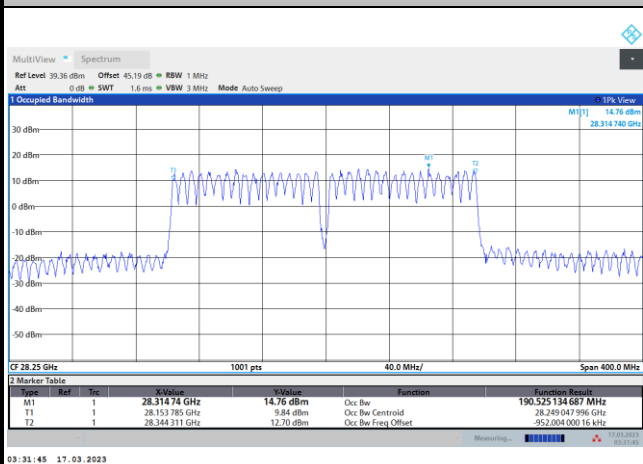
Middle Channel / 200MHz / BPSK



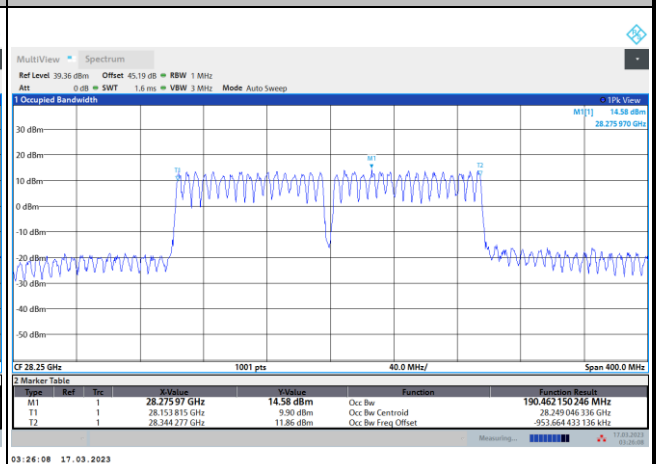
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

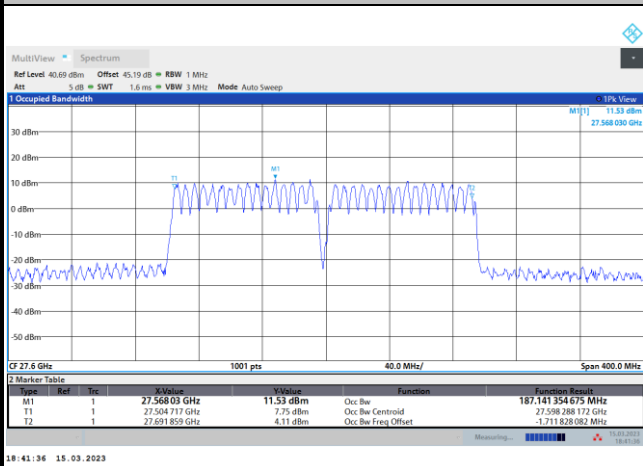




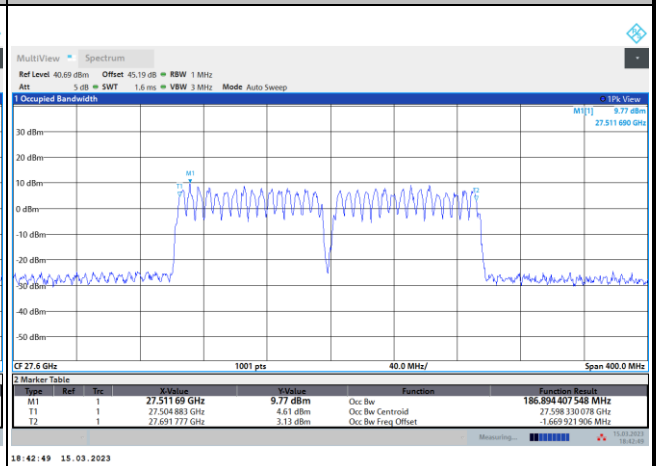
DFT-s-OFDM Module 1

NR Band n261

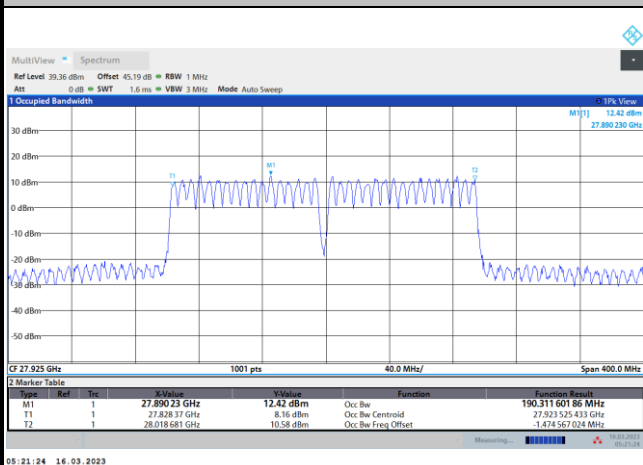
Lowest Channel / 200MHz / 16QAM



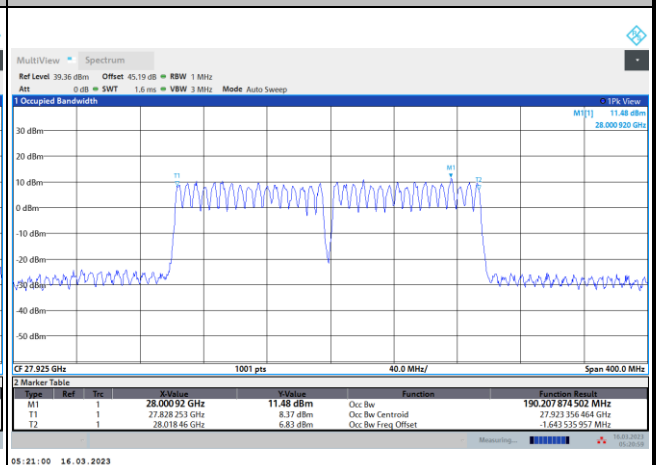
Lowest Channel / 200MHz / 64QAM



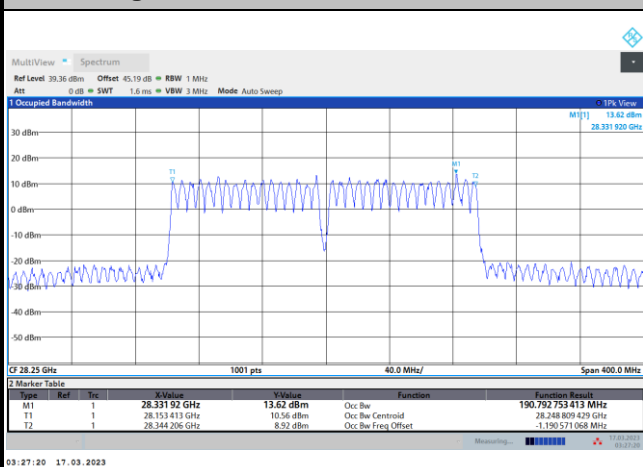
Middle Channel / 200MHz / 16QAM



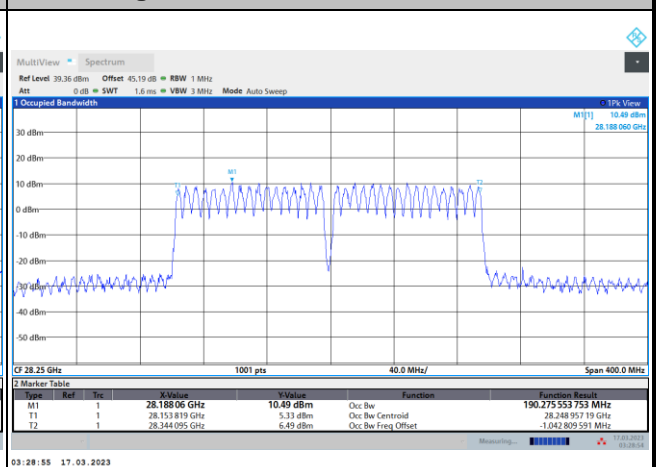
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM

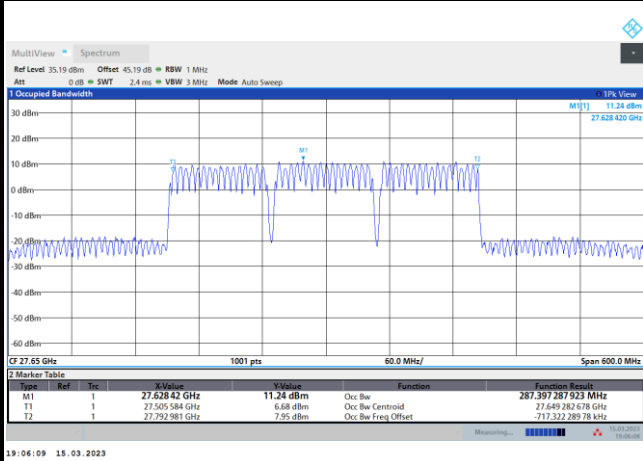




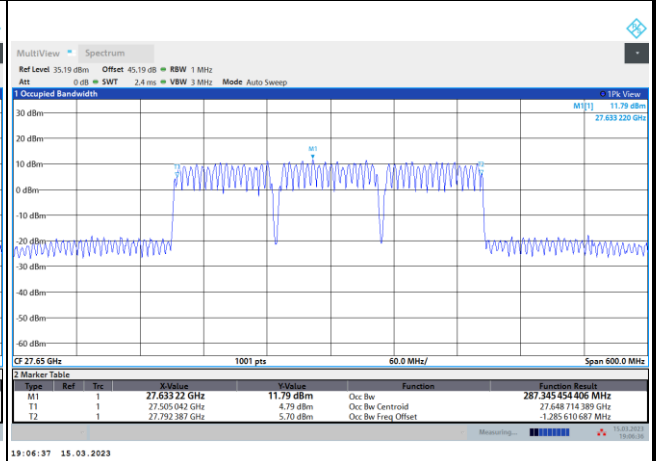
DFT-s-OFDM Module 1

NR Band n261

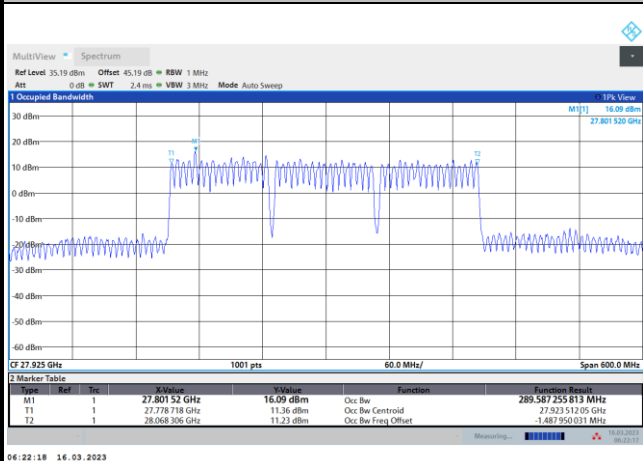
Lowest Channel / 300MHz / BPSK



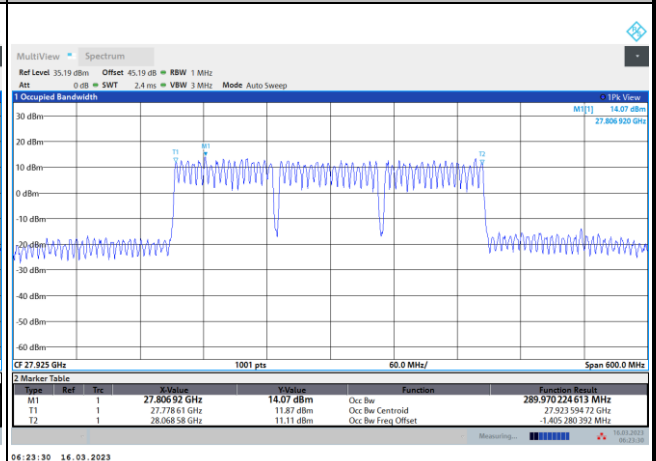
Lowest Channel / 300MHz / QPSK



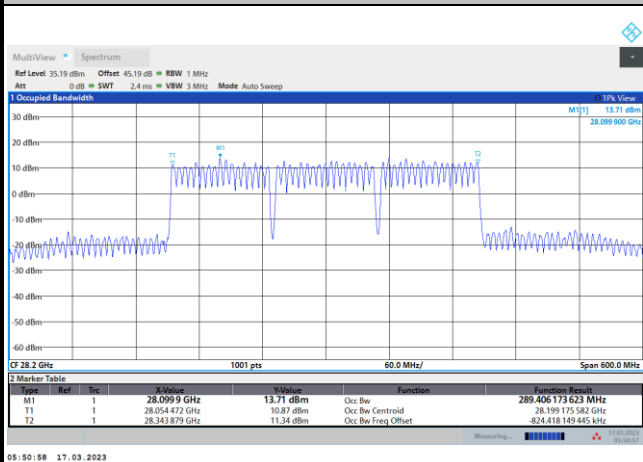
Middle Channel / 300MHz / BPSK



Middle Channel / 300MHz / QPSK



Highest Channel / 300MHz / BPSK



Highest Channel / 300MHz / QPSK

