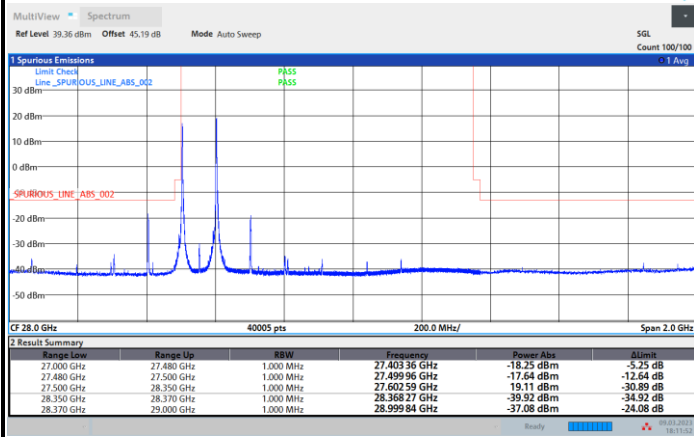




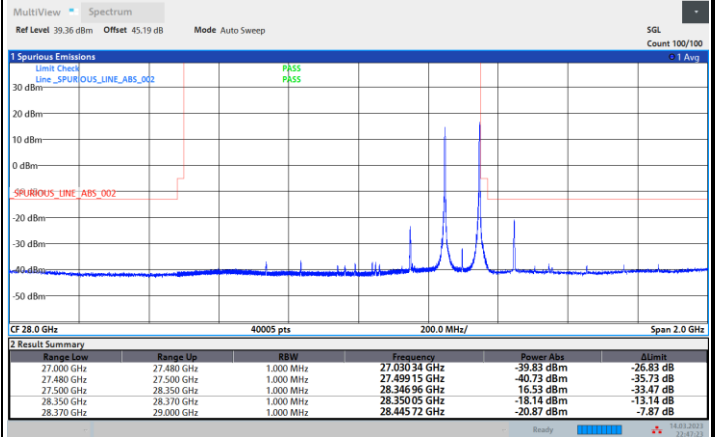
CP-OFDM Module 0

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

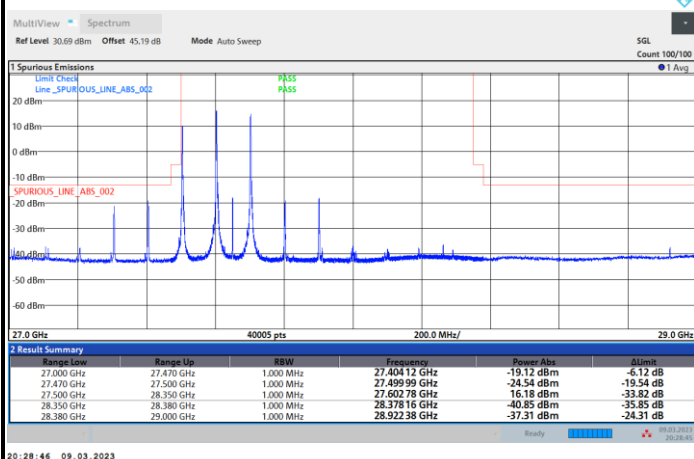


Highest Band Edge / 1 RB

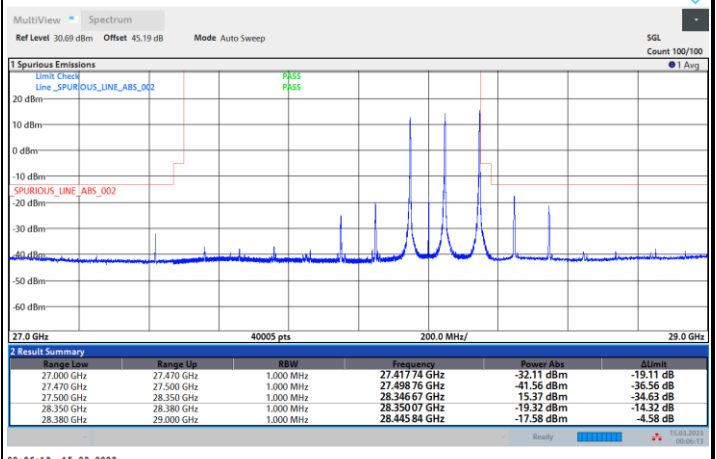


NR Band n261 / 300MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

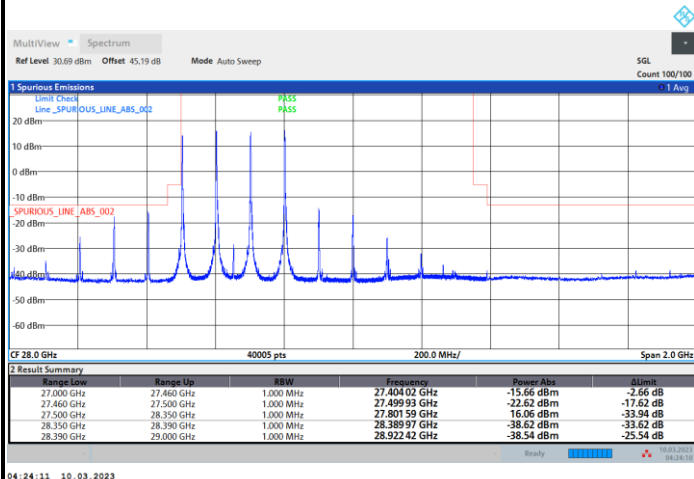




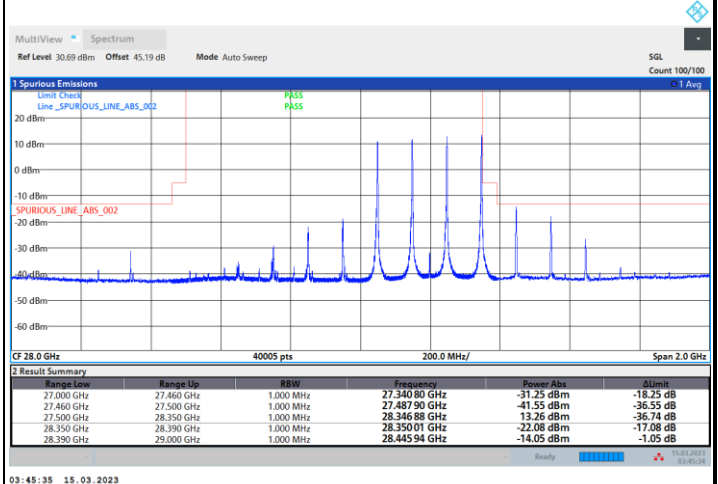
CP-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

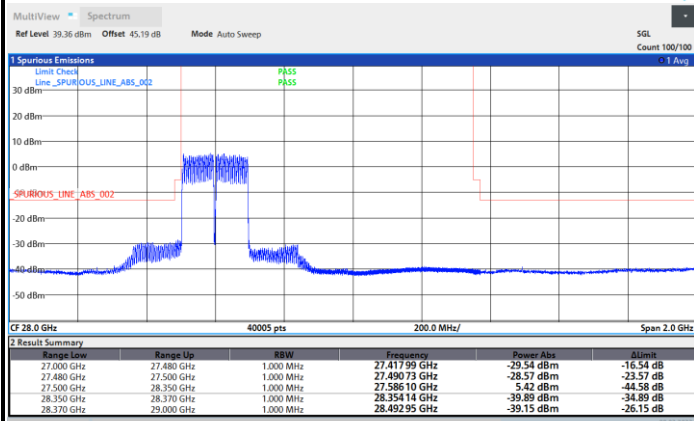




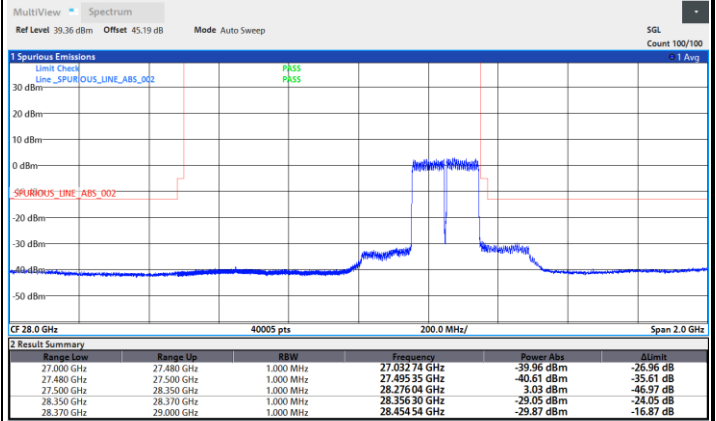
DFT-s-OFDM Module 0

NR Band n261 / 200MHz / BPSK

Lowest Band Edge / Full RB

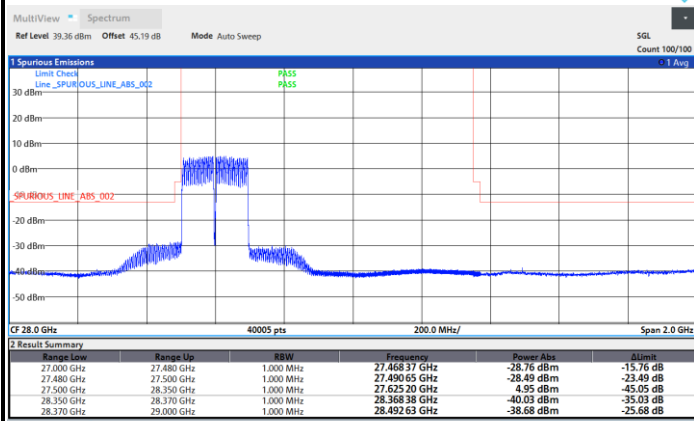


Highest Band Edge / Full RB

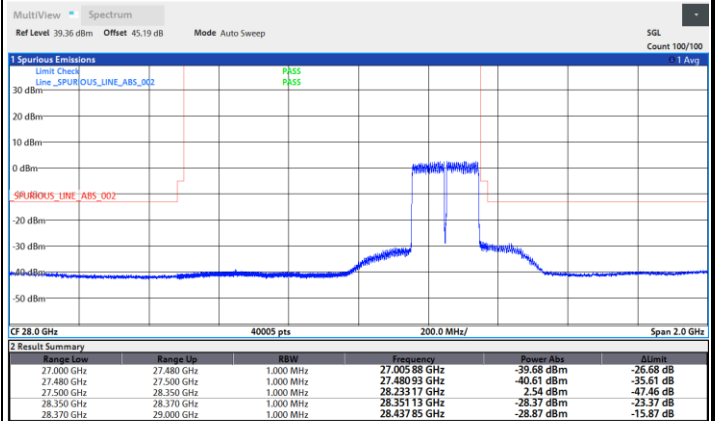


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

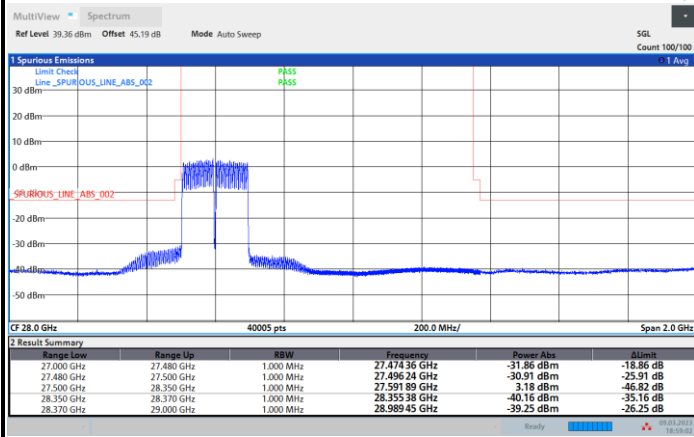




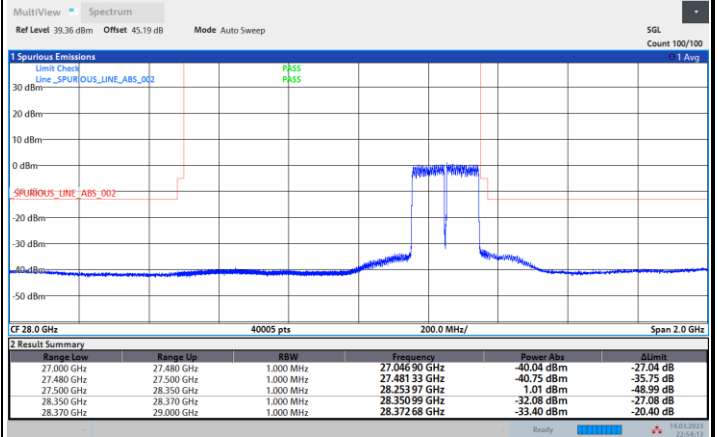
DFT-s-OFDM Module 0

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB

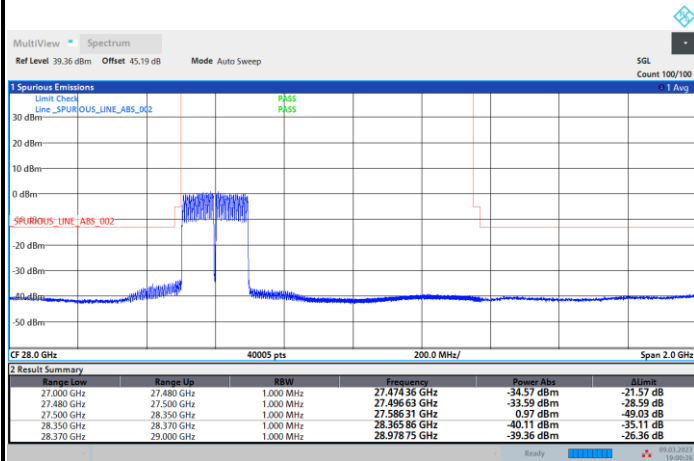


Highest Band Edge / Full RB

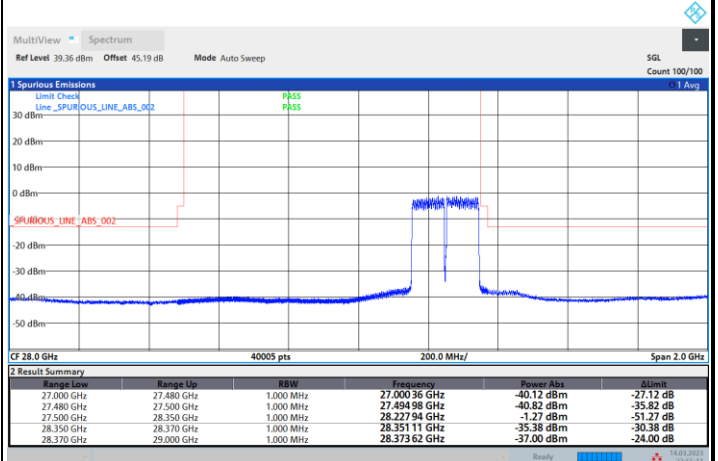


NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

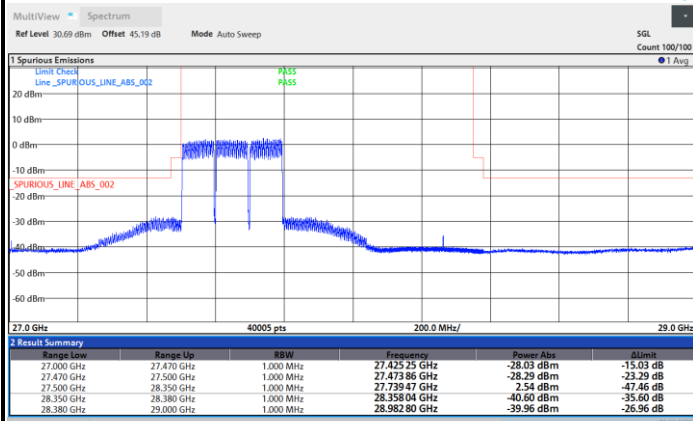




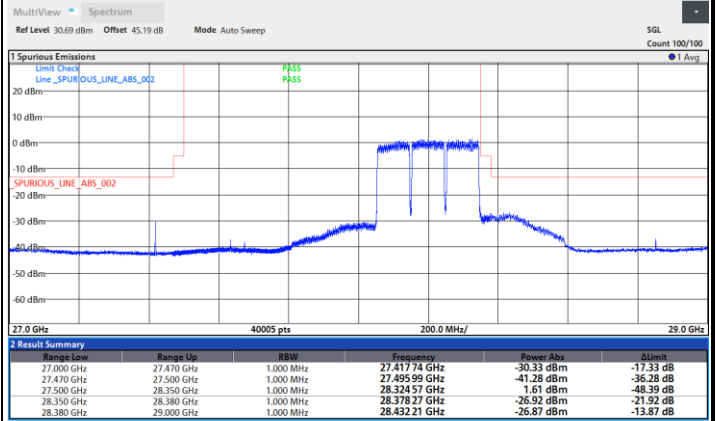
DFT-s-OFDM Module 0

NR Band n261 / 300MHz / BPSK

Lowest Band Edge / Full RB

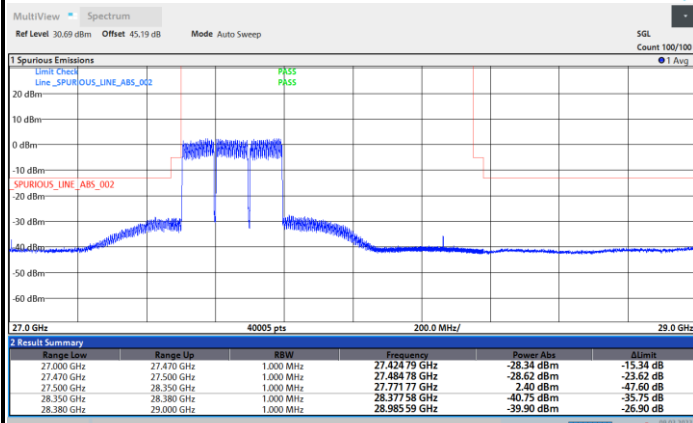


Highest Band Edge / Full RB

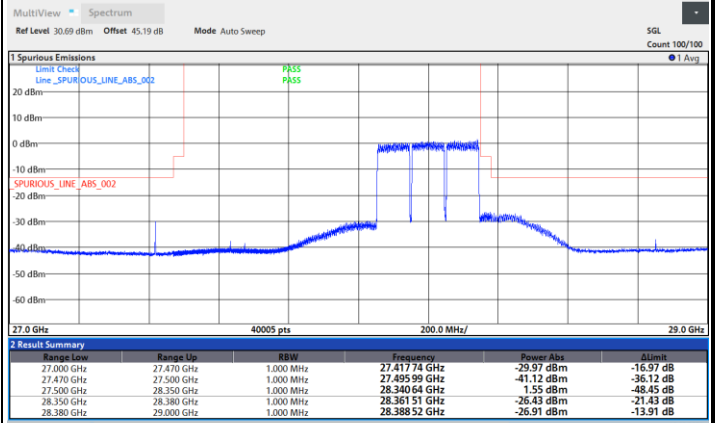


NR Band n261 / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

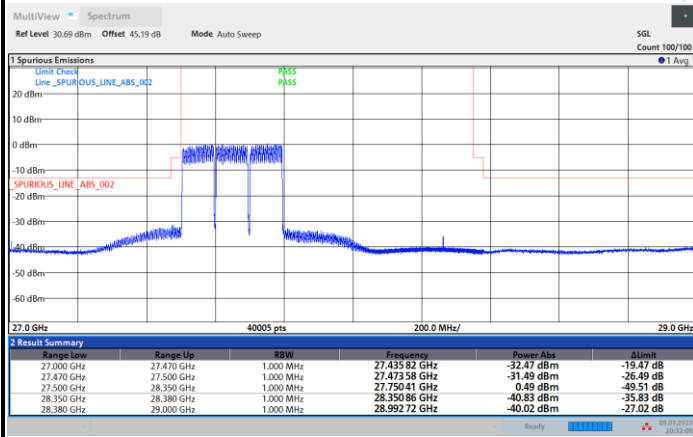




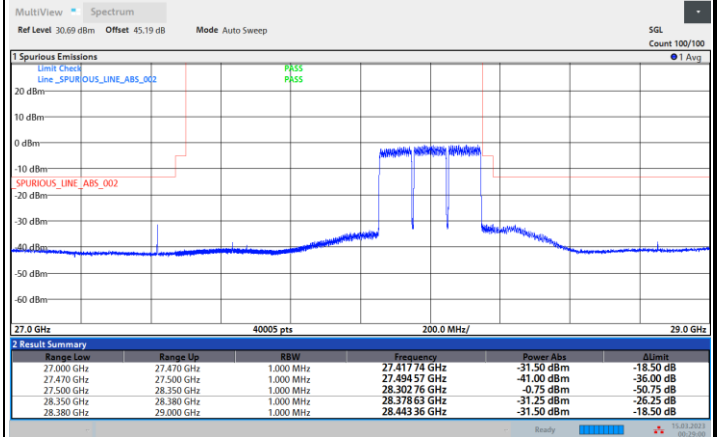
DFT-s-OFDM Module 0

NR Band n261 / 300MHz / 16QAM

Lowest Band Edge / Full RB

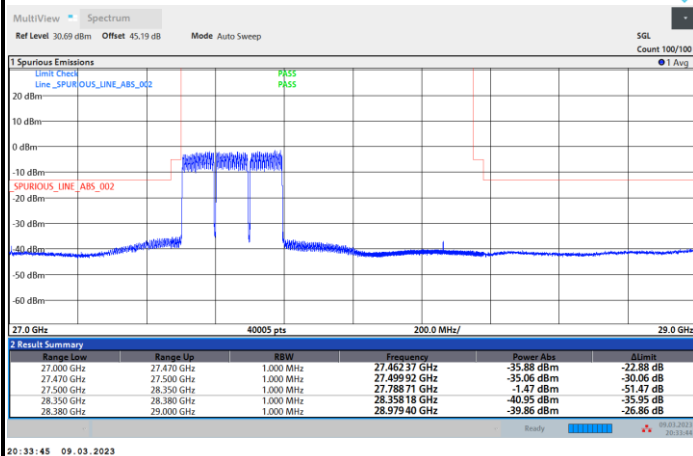


Highest Band Edge / Full RB

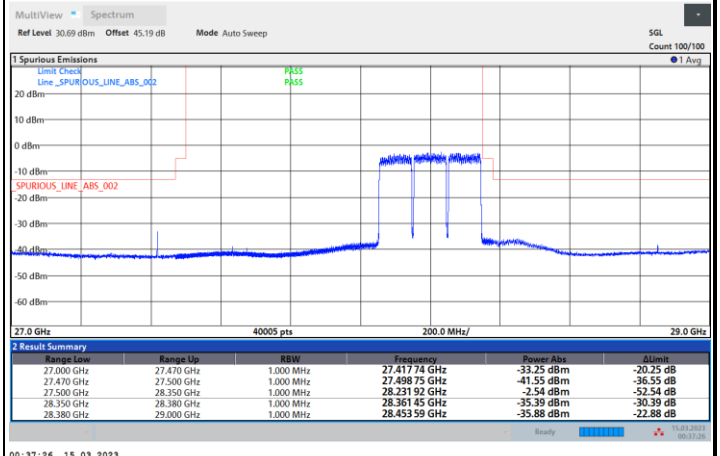


NR Band n261 / 300MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

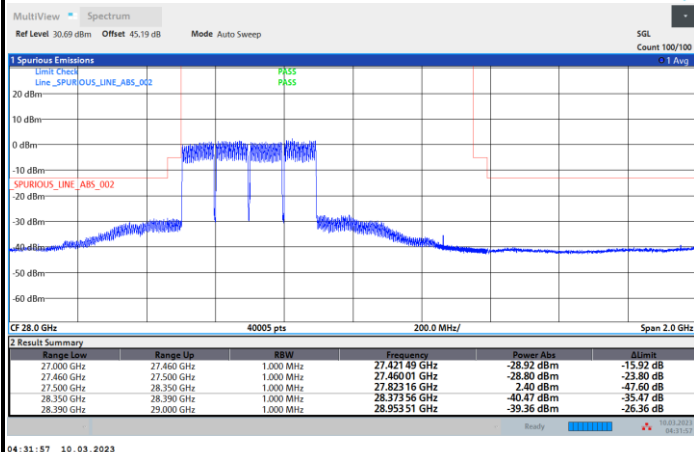




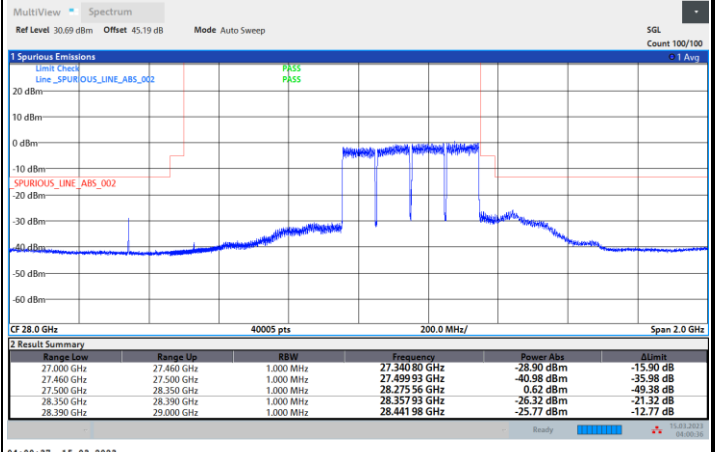
DFT-s-OFDM Module 0

NR Band n261 / 400MHz / BPSK

Lowest Band Edge / Full RB

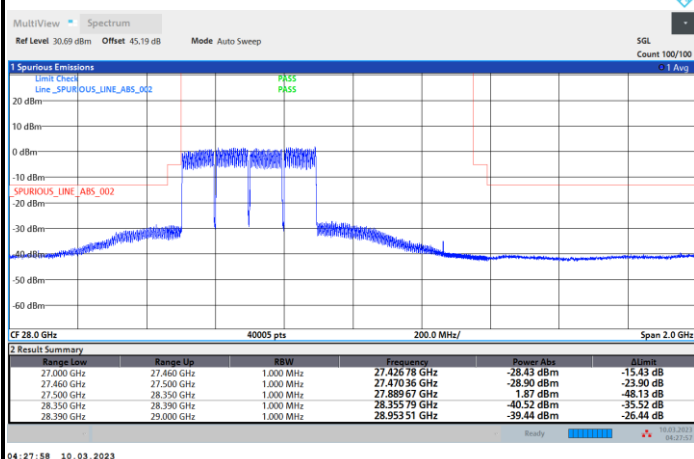


Highest Band Edge / Full RB

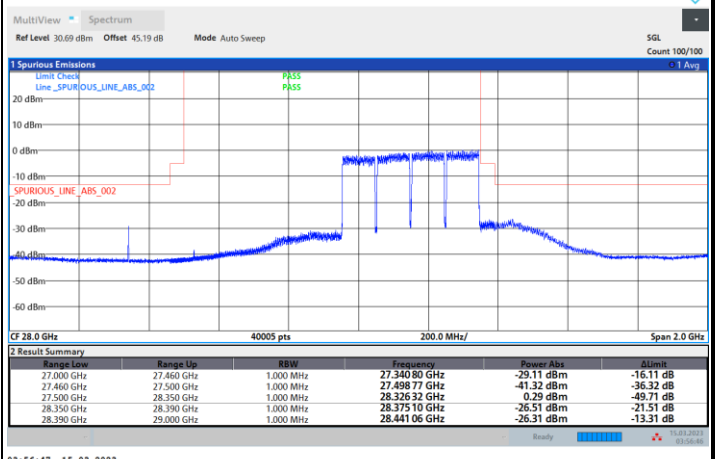


NR Band n261 / 400MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

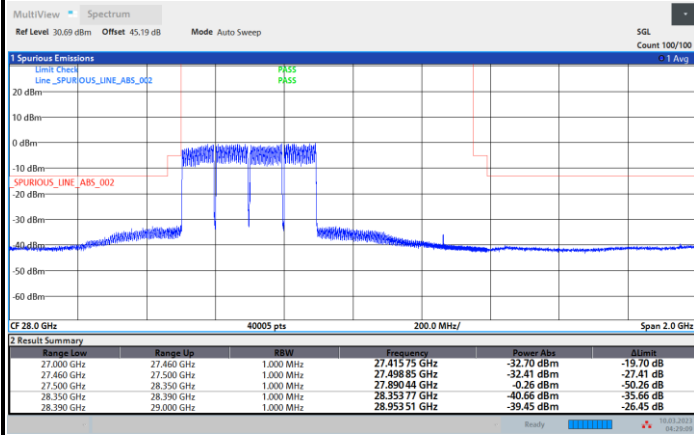




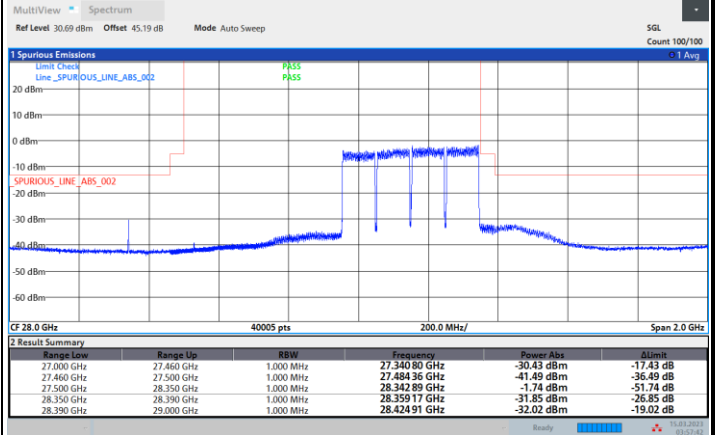
DFT-s-OFDM Module 0

NR Band n261 / 400MHz / 16QAM

Lowest Band Edge / Full RB

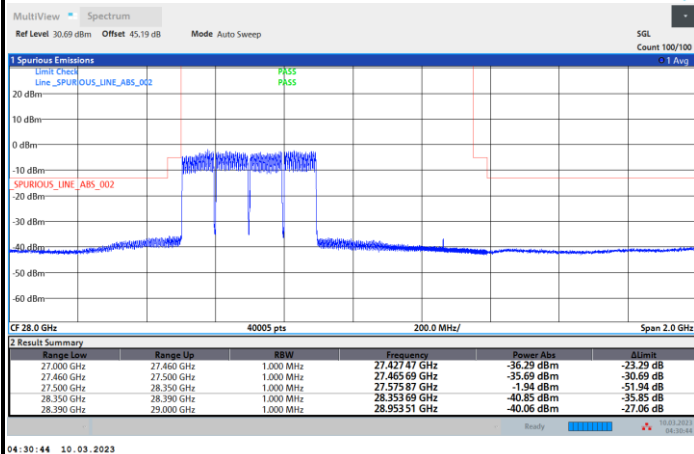


Highest Band Edge / Full RB

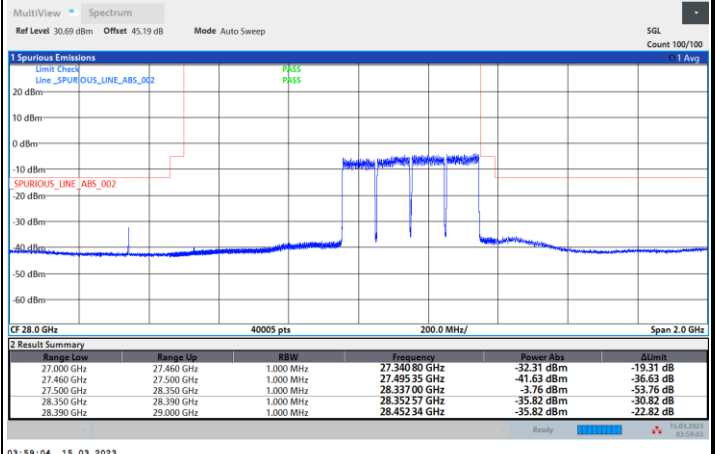


NR Band n261 / 400MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

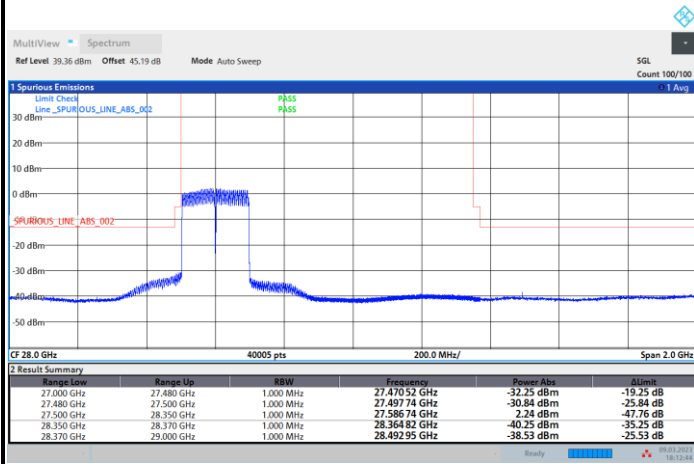




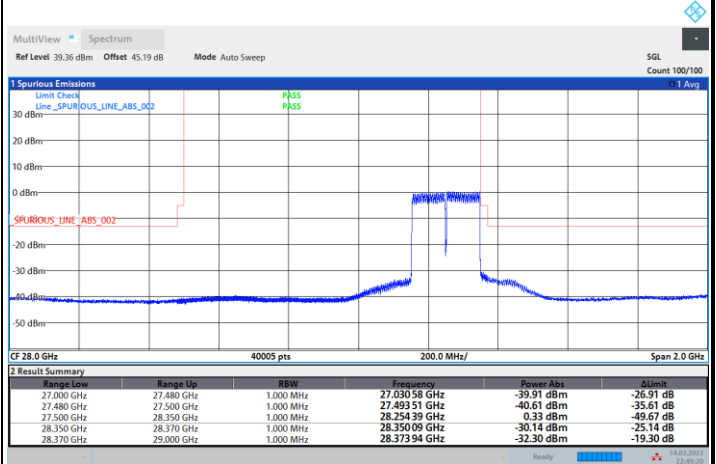
CP-OFDM Module 0

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB

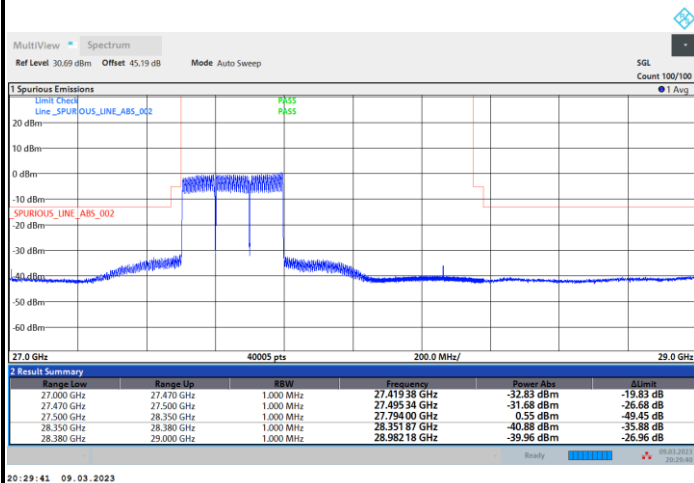


Highest Band Edge / Full RB

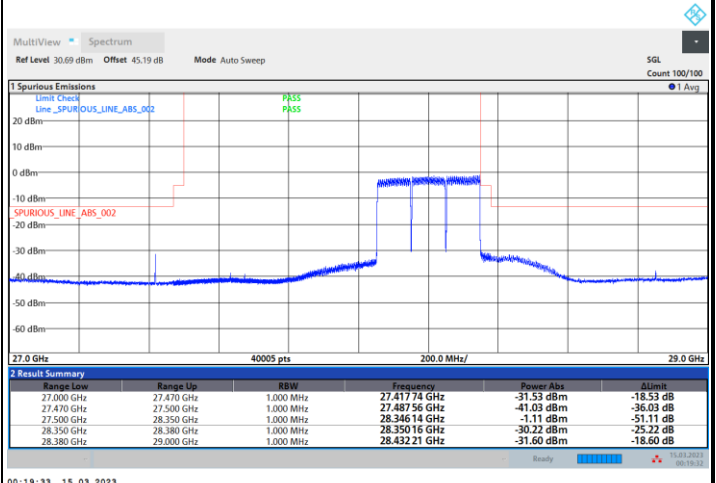


NR Band n261 / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

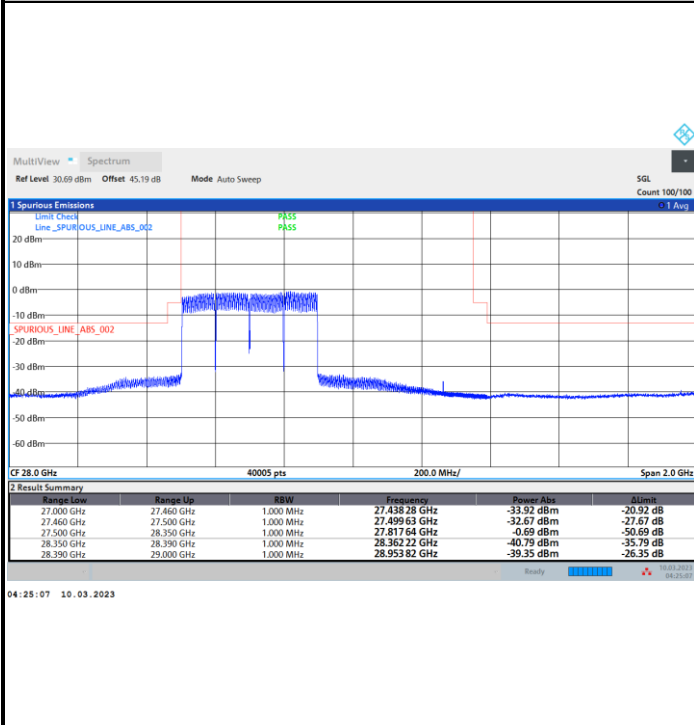




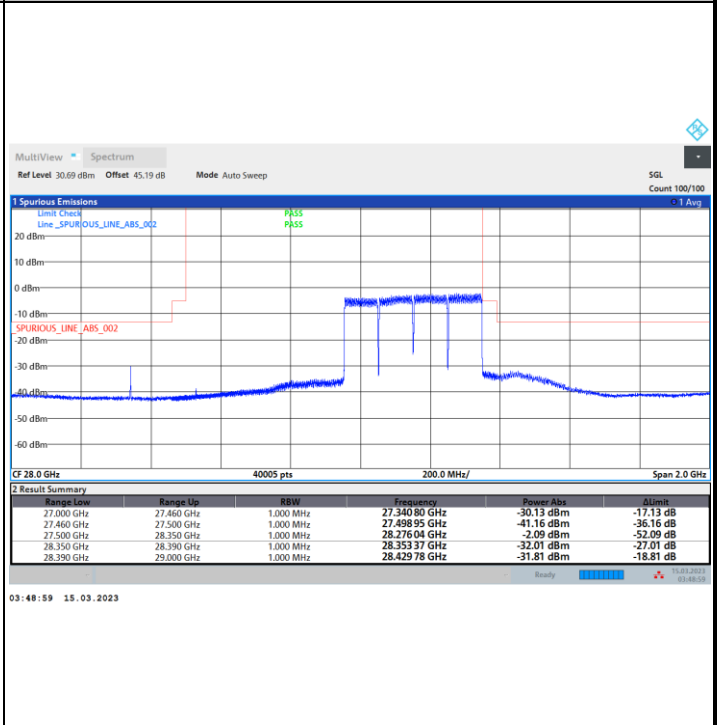
CP-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

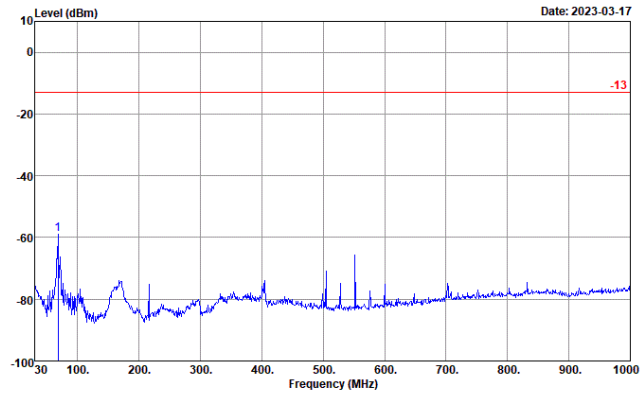




Spurious Emission

NR Band n261 (30MHz-1GHz)

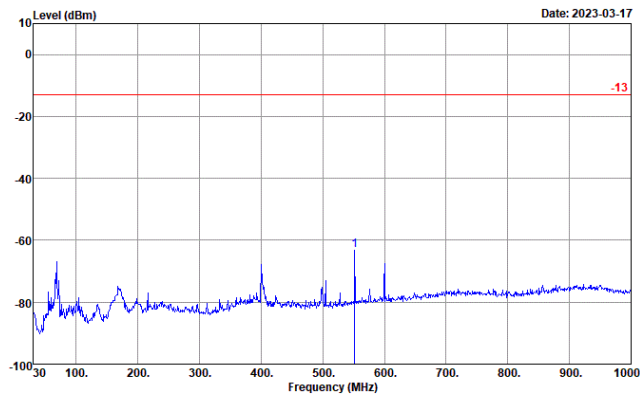
Horizontal



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

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

Vertical



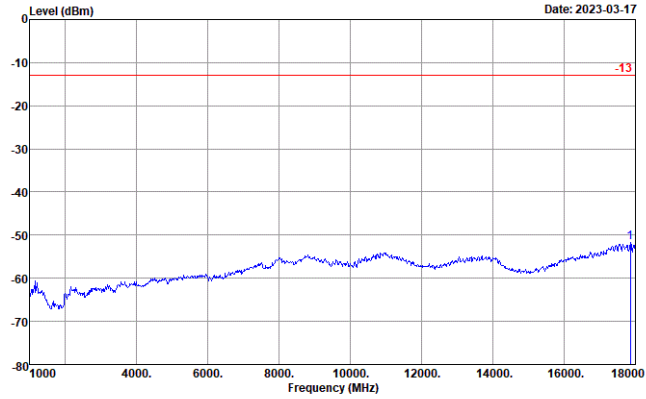
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 190614-10
: MO

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



NR Band n261 (1GHz-18GHz)

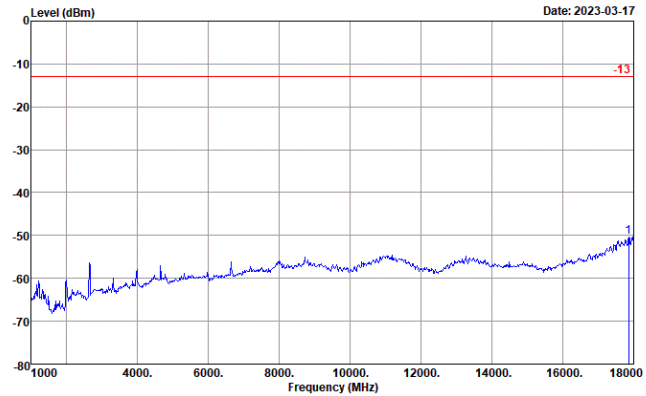
Horizontal



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

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

Vertical



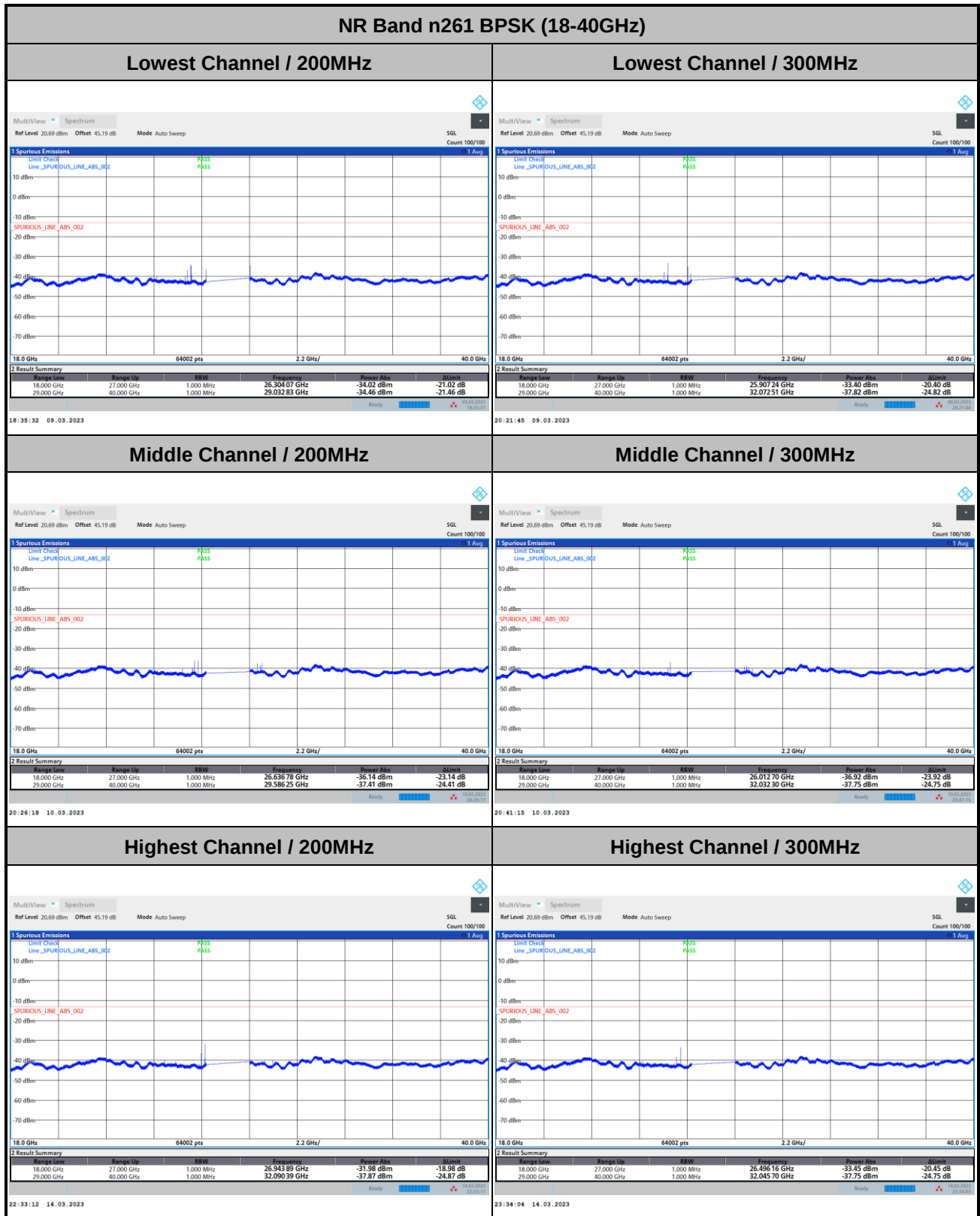
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 190614-10
: MO

	Freq	Level	Over Limit	Limit Line	Read 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.

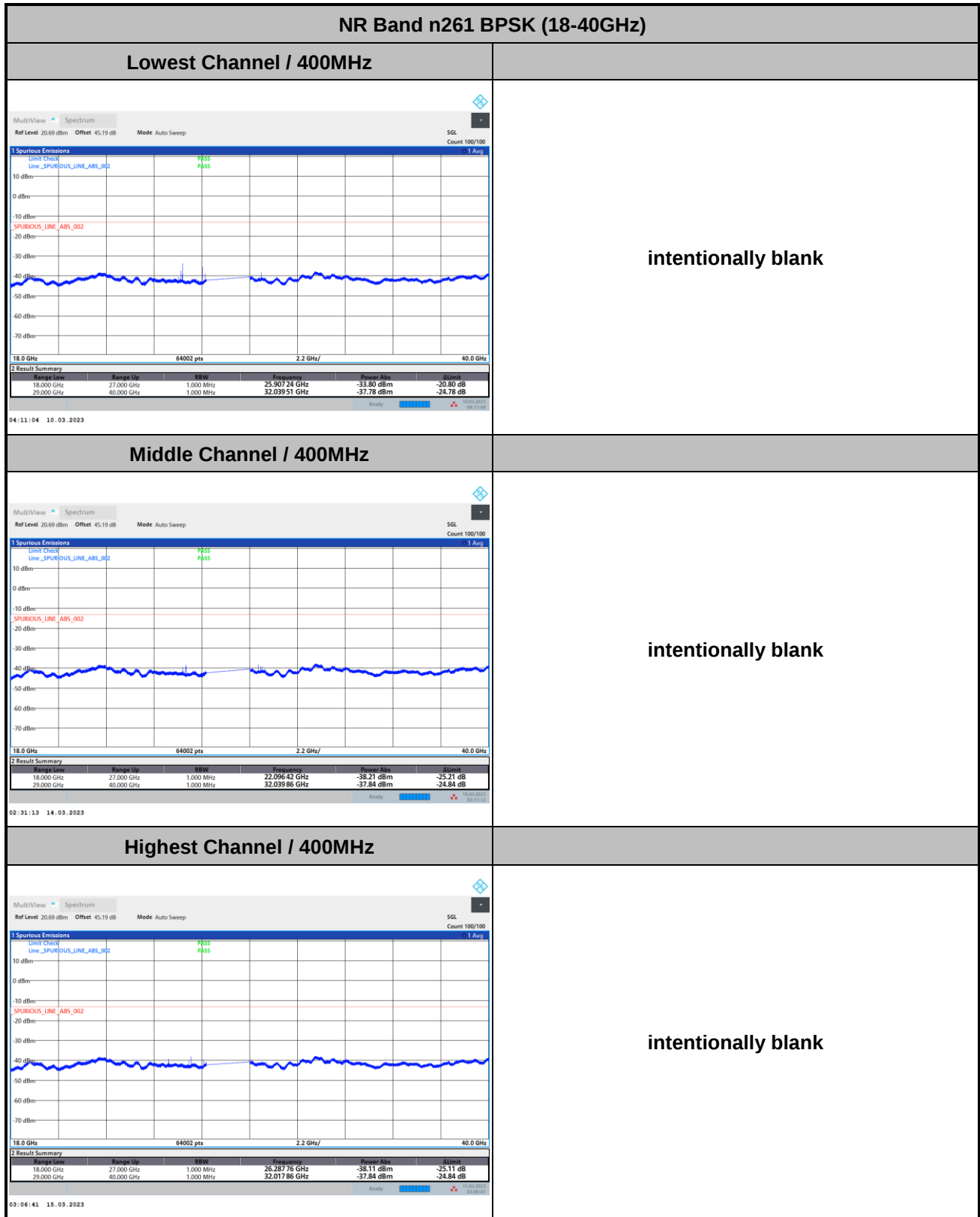
DFT-s-OFDM Module 0



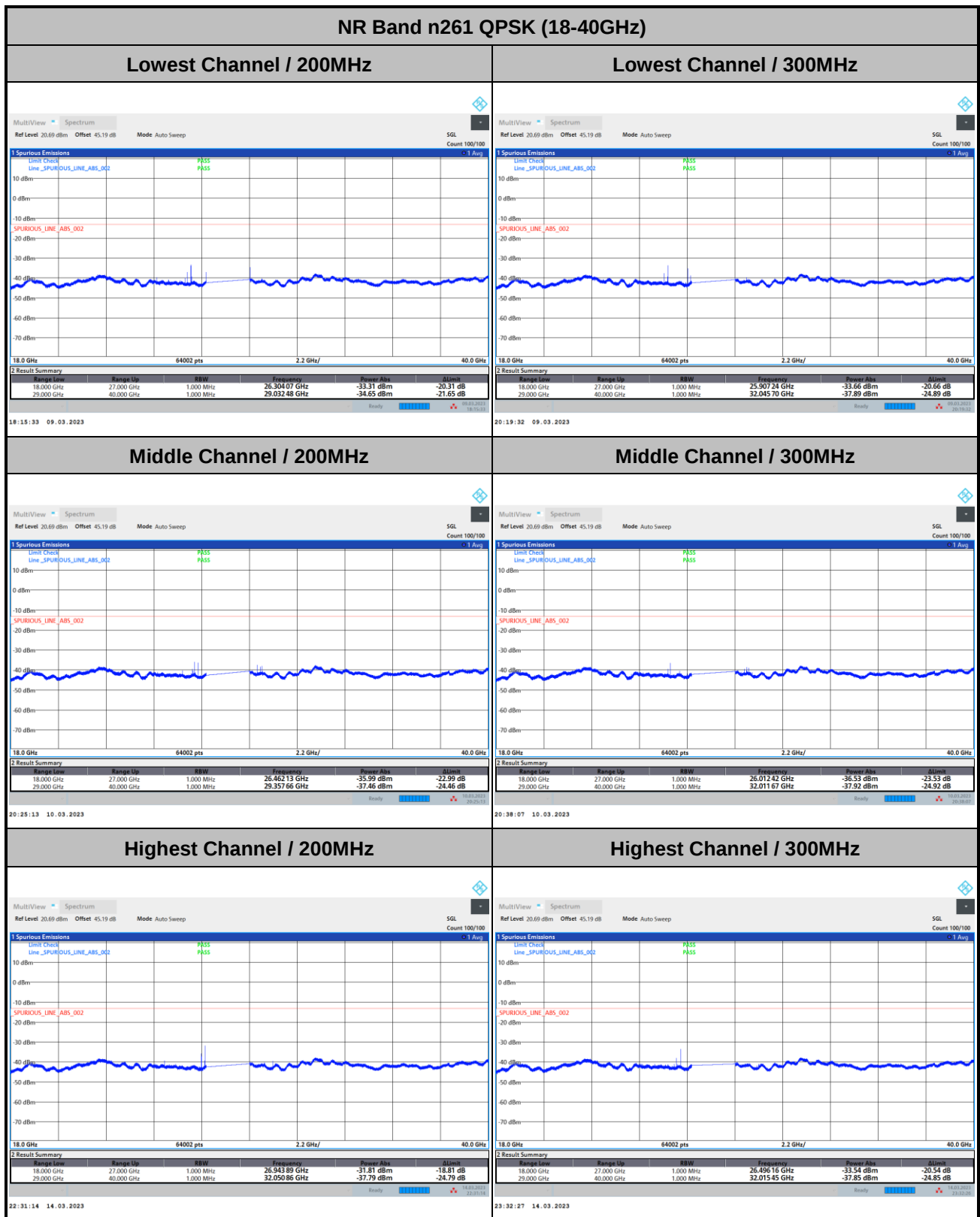
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 0



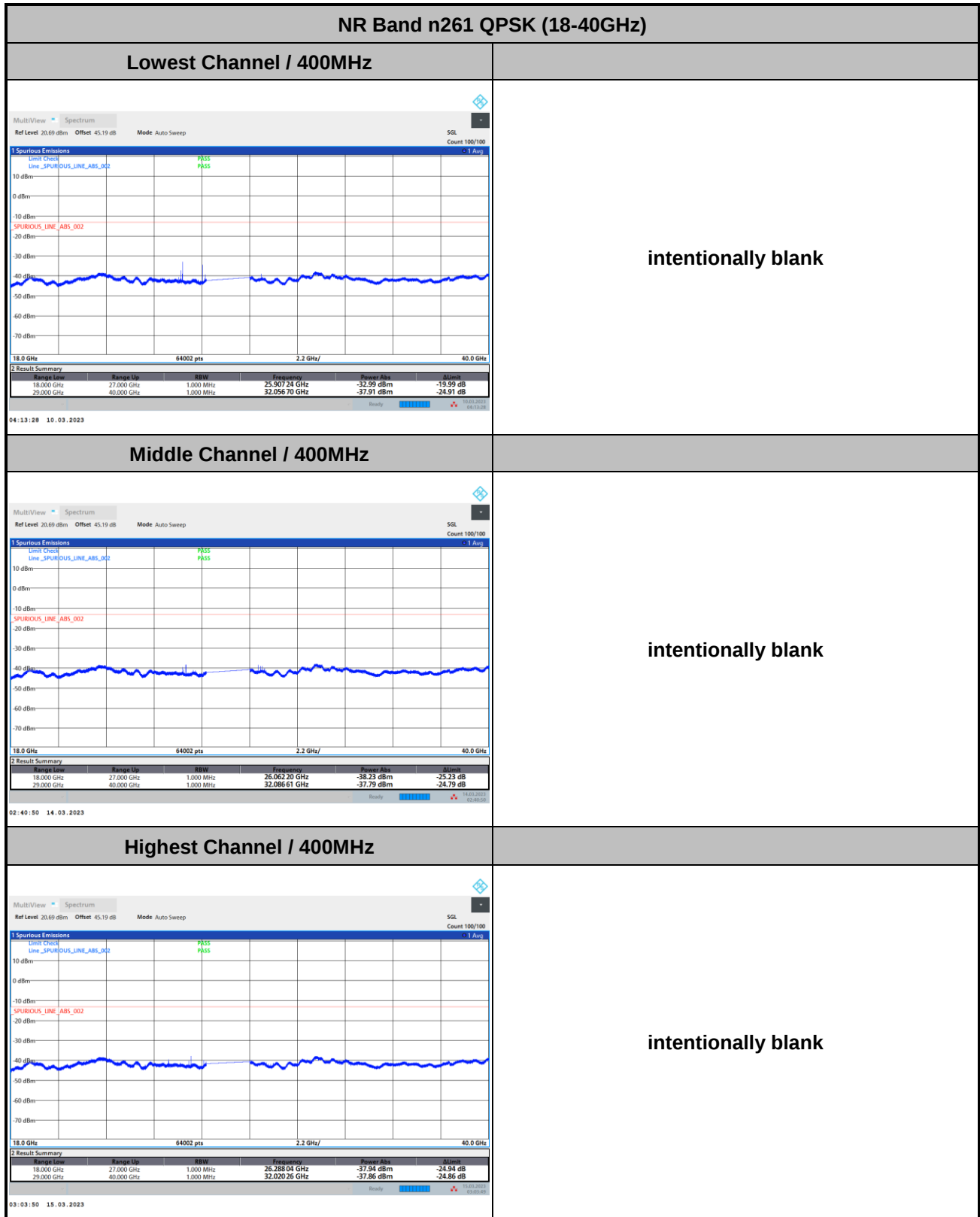
Remark: In band and out of band frequencies are omitted.



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



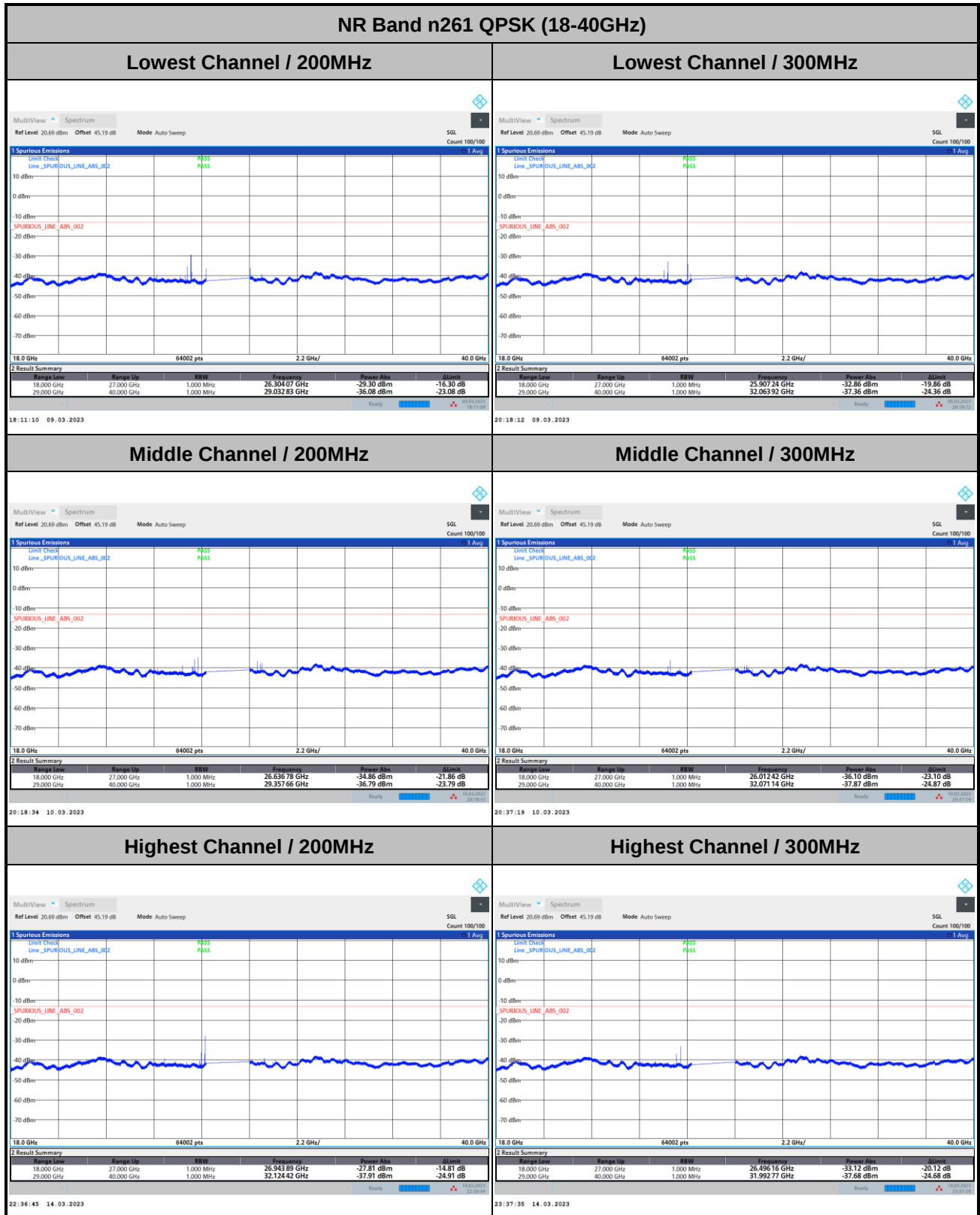
DFT-s-OFDM Module 0



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



CP-OFDM Module 0



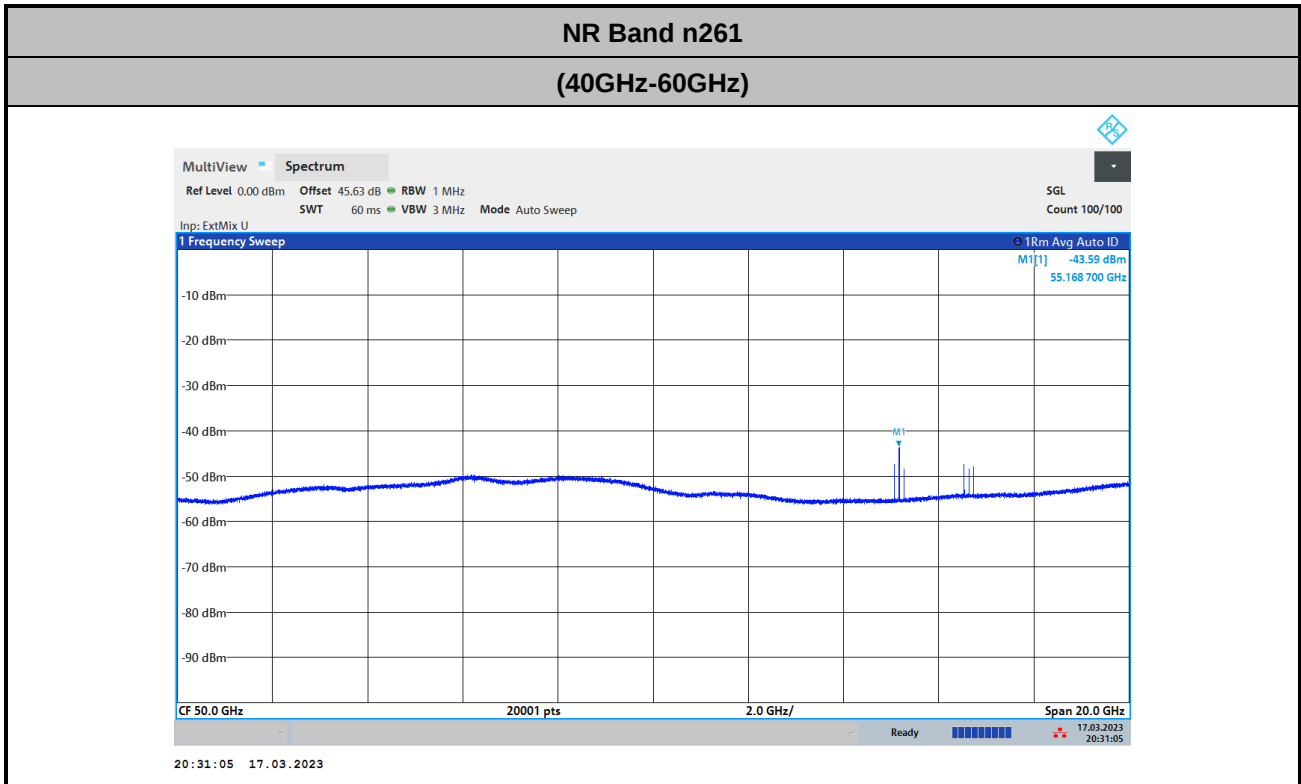
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module 0

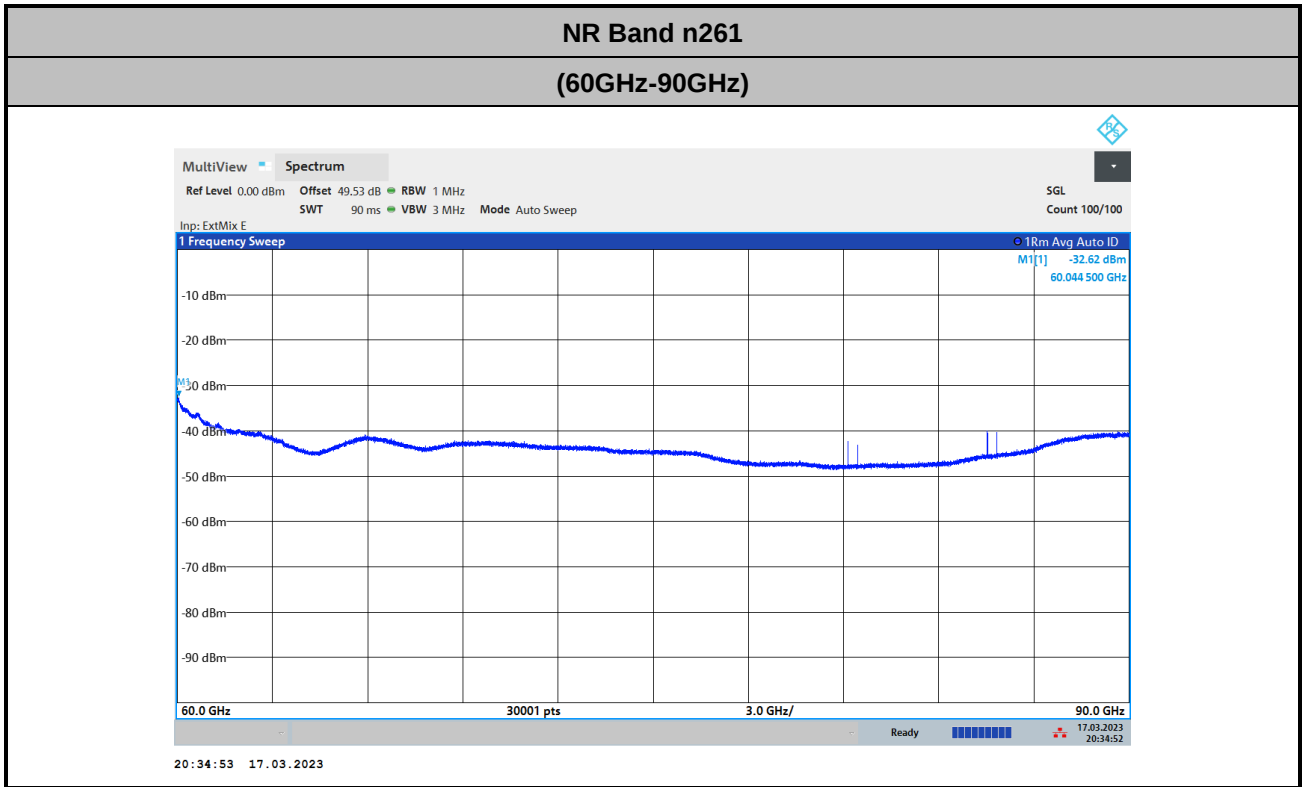
NR Band n261 QPSK (18-40GHz)																			
Lowest Channel / 400MHz																			
MultiView Spectrum Ref Level 20.69 dBm Offset 45.19 dB Mode Auto Sweep SGL Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PRSS PRSS 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Attenu</th></tr><tr><td>18,000 GHz</td><td>27,000 GHz</td><td>1,000 MHz</td><td>25,907 24 GHz</td><td>-32.05 dBm</td><td>-19.05 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>32,028 51 GHz</td><td>-37.82 dBm</td><td>-24.82 dB</td></tr></table> 04:34:30 10.03.2023	Range Low	Range Up	RBW	Frequency	Power Abs	Attenu	18,000 GHz	27,000 GHz	1,000 MHz	25,907 24 GHz	-32.05 dBm	-19.05 dB	29,000 GHz	40,000 GHz	1,000 MHz	32,028 51 GHz	-37.82 dBm	-24.82 dB	intentionally blank
Range Low	Range Up	RBW	Frequency	Power Abs	Attenu														
18,000 GHz	27,000 GHz	1,000 MHz	25,907 24 GHz	-32.05 dBm	-19.05 dB														
29,000 GHz	40,000 GHz	1,000 MHz	32,028 51 GHz	-37.82 dBm	-24.82 dB														
Middle Channel / 400MHz																			
MultiView Spectrum Ref Level 20.69 dBm Offset 45.19 dB Mode Auto Sweep SGL Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PRSS PRSS 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Attenu</th></tr><tr><td>18,000 GHz</td><td>27,000 GHz</td><td>1,000 MHz</td><td>26,062 48 GHz</td><td>-37.51 dBm</td><td>-24.51 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>32,040 20 GHz</td><td>-37.86 dBm</td><td>-24.86 dB</td></tr></table> 02:42:21 14.03.2023	Range Low	Range Up	RBW	Frequency	Power Abs	Attenu	18,000 GHz	27,000 GHz	1,000 MHz	26,062 48 GHz	-37.51 dBm	-24.51 dB	29,000 GHz	40,000 GHz	1,000 MHz	32,040 20 GHz	-37.86 dBm	-24.86 dB	intentionally blank
Range Low	Range Up	RBW	Frequency	Power Abs	Attenu														
18,000 GHz	27,000 GHz	1,000 MHz	26,062 48 GHz	-37.51 dBm	-24.51 dB														
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Highest Channel / 400MHz																			
MultiView Spectrum Ref Level 20.69 dBm Offset 45.19 dB Mode Auto Sweep SGL Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PRSS PRSS 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Attenu</th></tr><tr><td>18,000 GHz</td><td>27,000 GHz</td><td>1,000 MHz</td><td>26,288 04 GHz</td><td>-37.33 dBm</td><td>-24.33 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>32,003 42 GHz</td><td>-37.75 dBm</td><td>-24.75 dB</td></tr></table> 03:09:20 15.03.2023	Range Low	Range Up	RBW	Frequency	Power Abs	Attenu	18,000 GHz	27,000 GHz	1,000 MHz	26,288 04 GHz	-37.33 dBm	-24.33 dB	29,000 GHz	40,000 GHz	1,000 MHz	32,003 42 GHz	-37.75 dBm	-24.75 dB	intentionally blank
Range Low	Range Up	RBW	Frequency	Power Abs	Attenu														
18,000 GHz	27,000 GHz	1,000 MHz	26,288 04 GHz	-37.33 dBm	-24.33 dB														
29,000 GHz	40,000 GHz	1,000 MHz	32,003 42 GHz	-37.75 dBm	-24.75 dB														

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



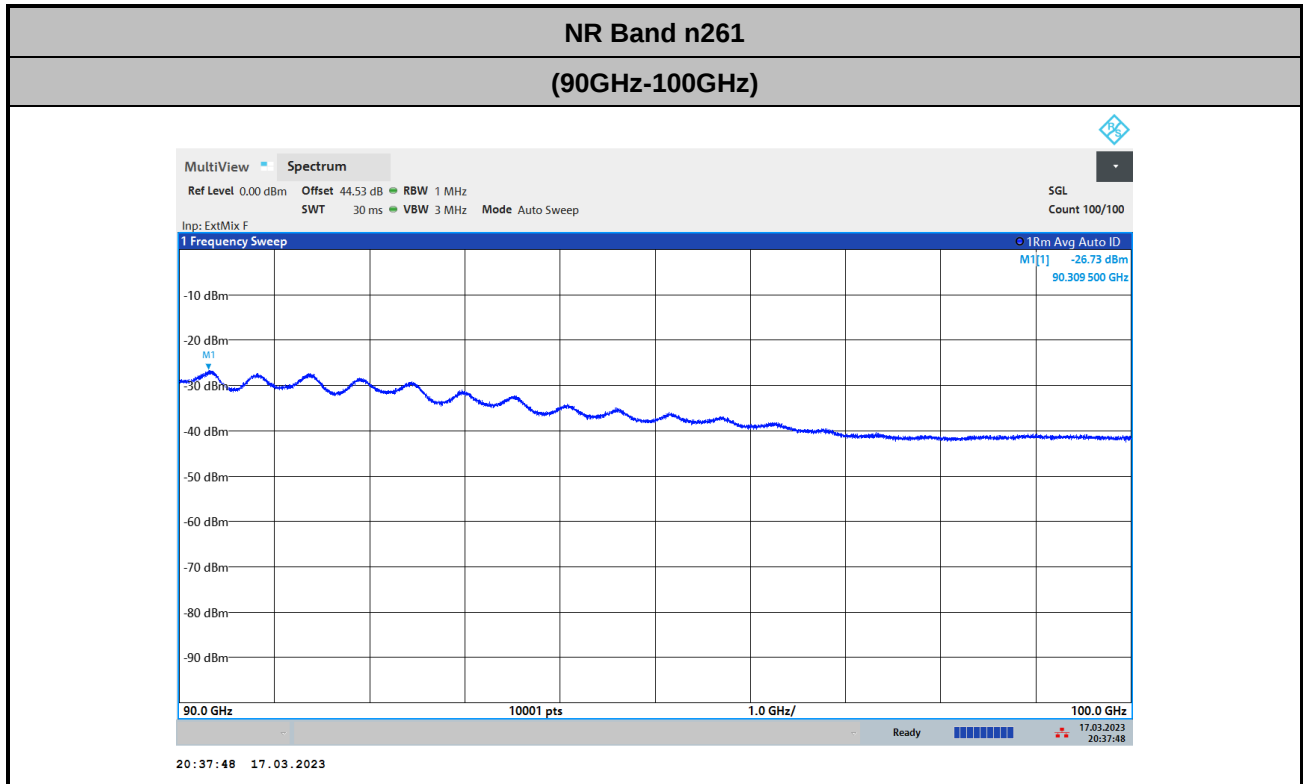
Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 43 + 0.43 + 107 + 20log(1) – 104.8 = 45.63 (dB)



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

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



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

$$= 47.92 + 0.43 + 107 + 20\log(0.5) - 104.8 = 44.53 \text{ (dB)}$$

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

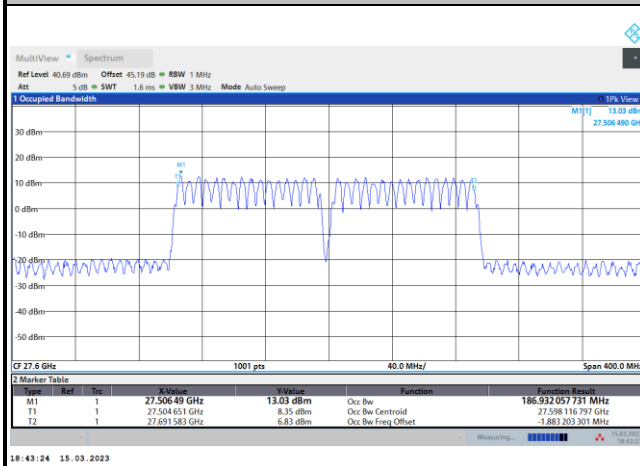
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)		
BW	200MHz	300MHz	400MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	191.58	289.85	389.64
Middle CH	190.35	290.53	390.97
Highest CH	191.41	290.36	389.94



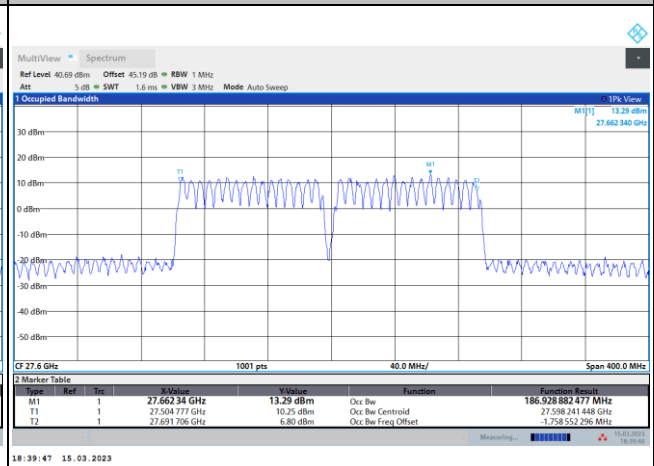
DFT-s-OFDM Module 1

NR Band n261

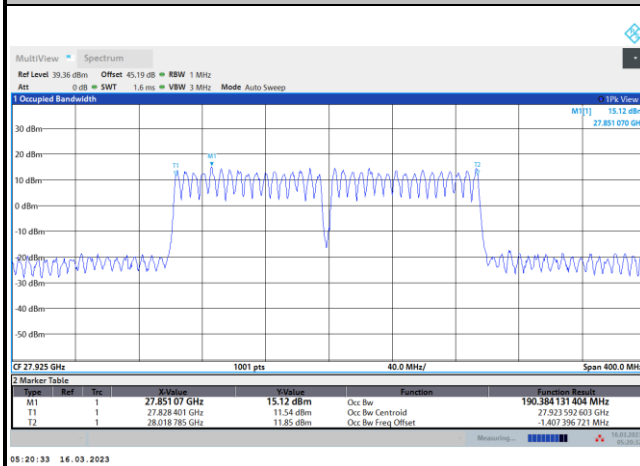
Lowest Channel / 200MHz / BPSK



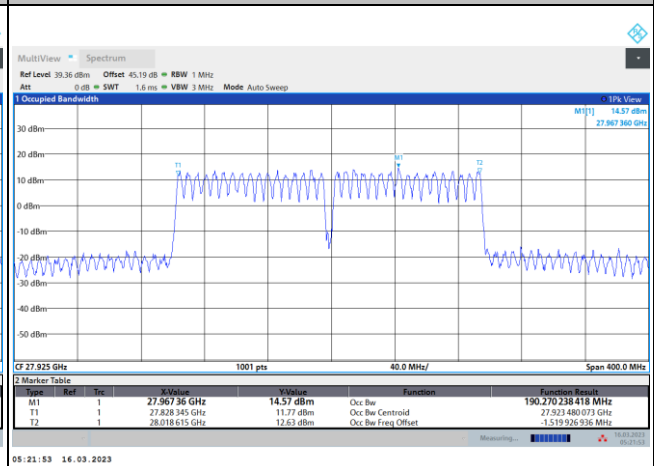
Lowest Channel / 200MHz / QPSK



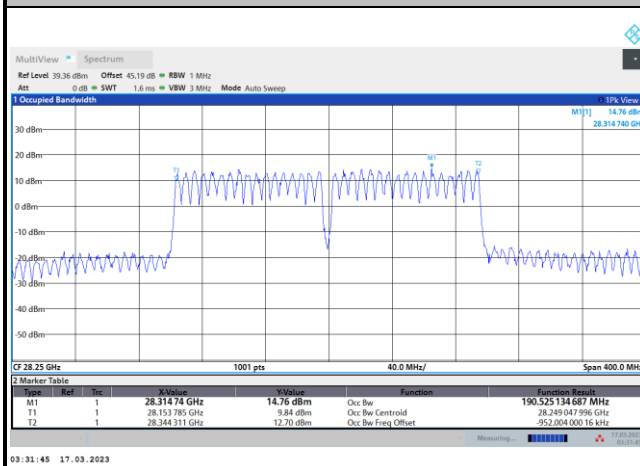
Middle Channel / 200MHz / BPSK



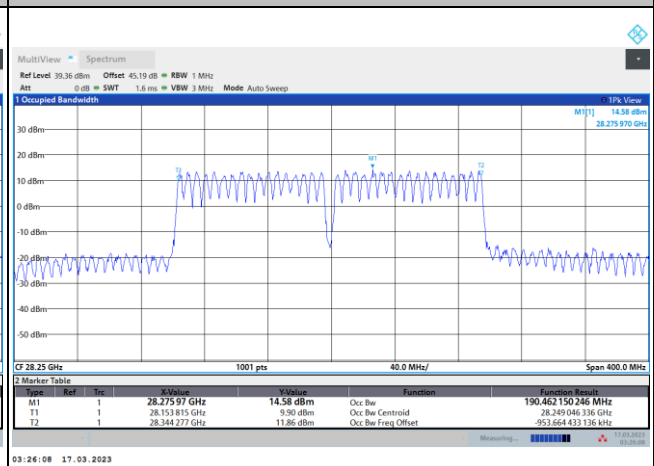
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

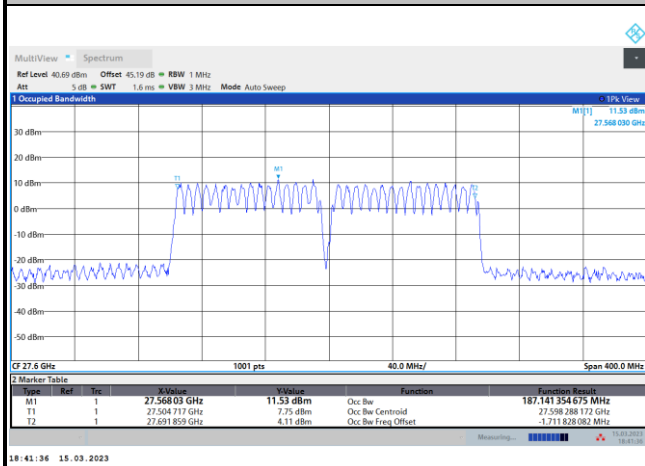




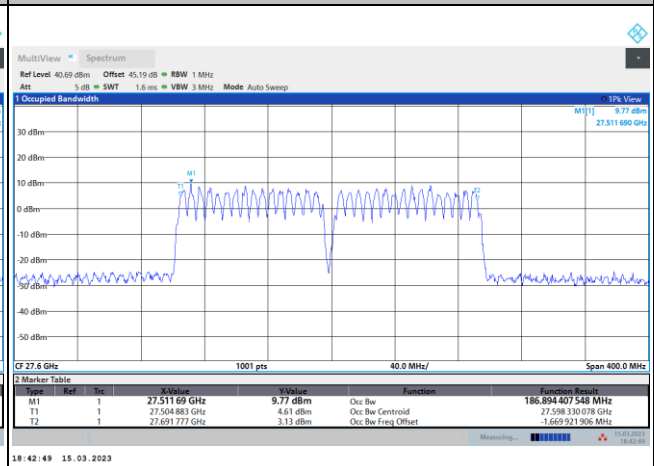
DFT-s-OFDM Module 1

NR Band n261

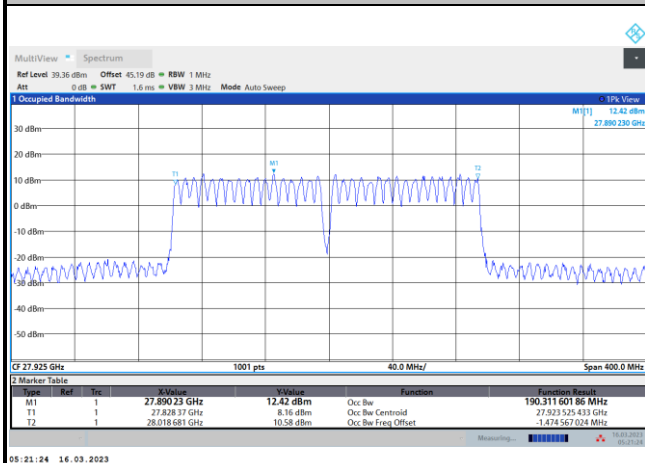
Lowest Channel / 200MHz / 16QAM



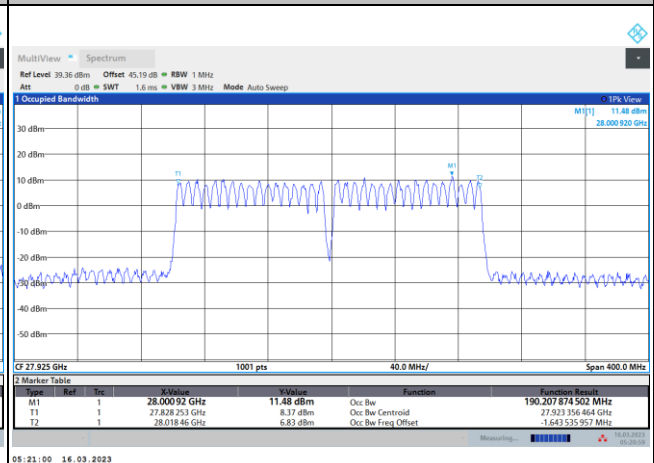
Lowest Channel / 200MHz / 64QAM



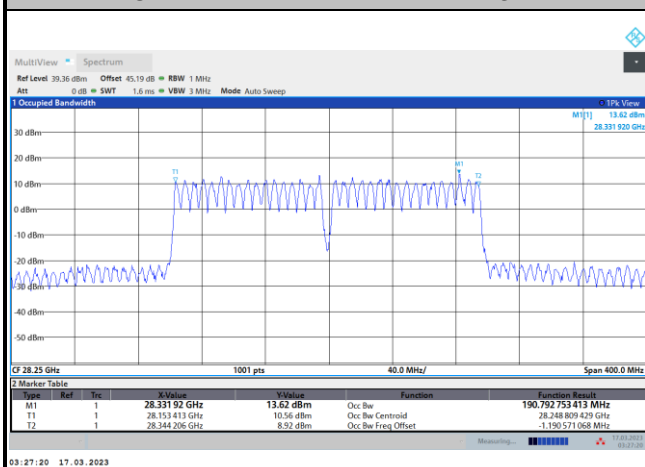
Middle Channel / 200MHz / 16QAM



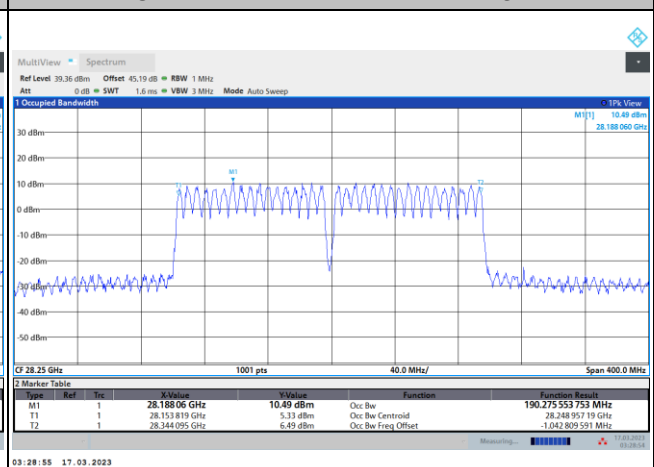
Middle Channel / 200MHz / 64QAM

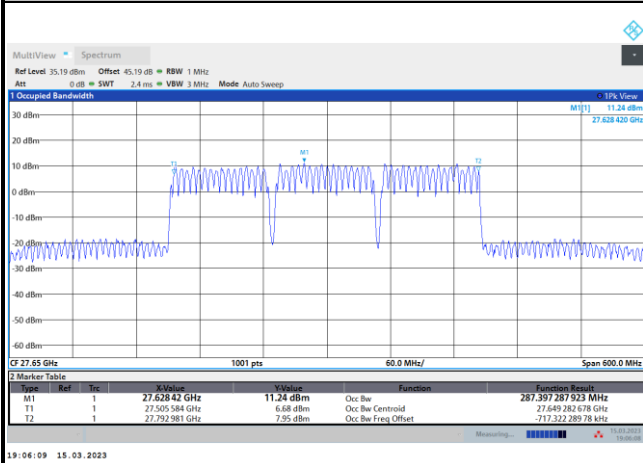
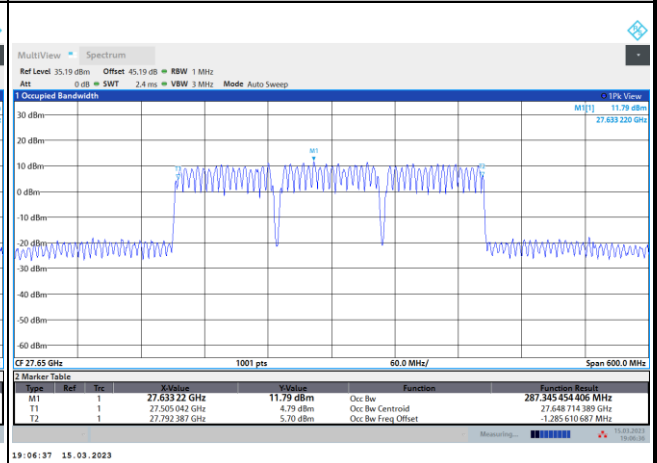
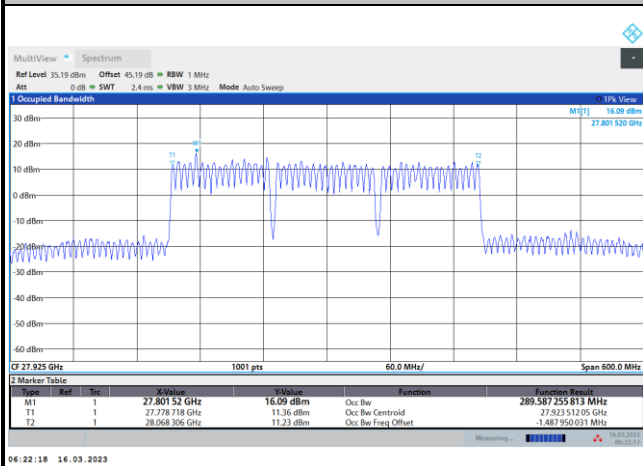
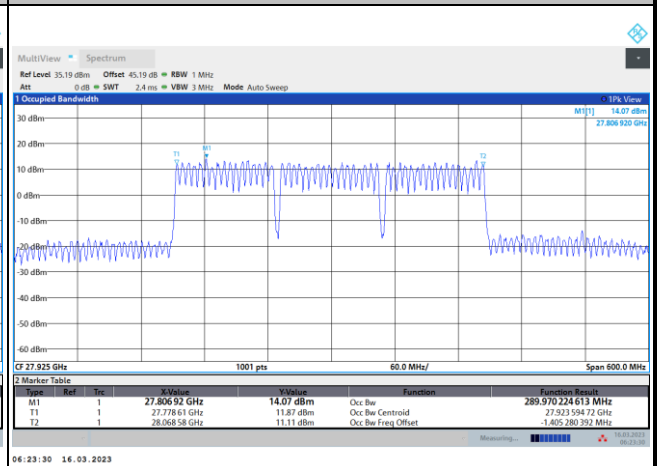
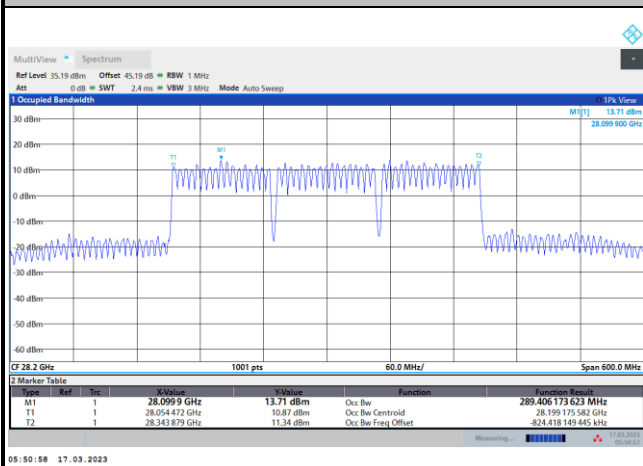


Highest Channel / 200MHz / 16QAM



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
