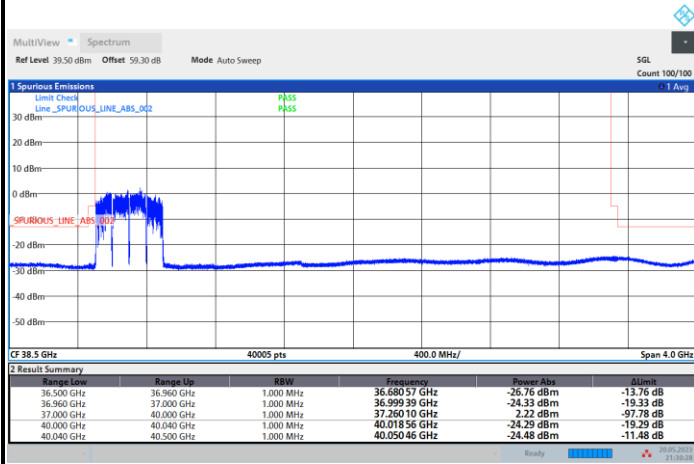




DFT-s-OFDM Module B

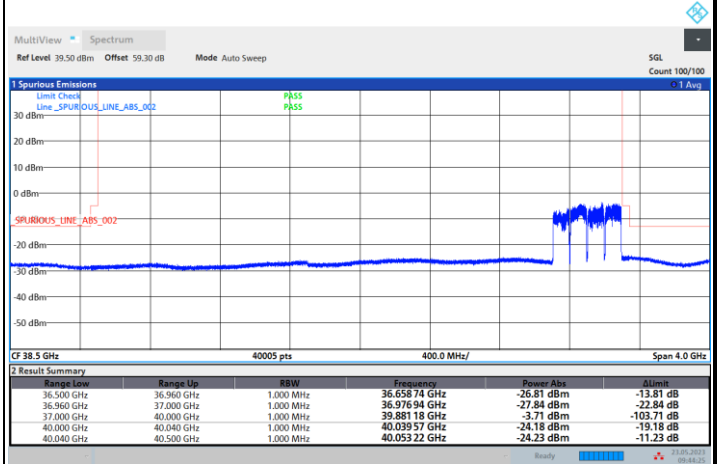
NR Band n260 / 400MHz / QPSK

Lowest Band Edge / Full RB



21:30:29 20.05.2023

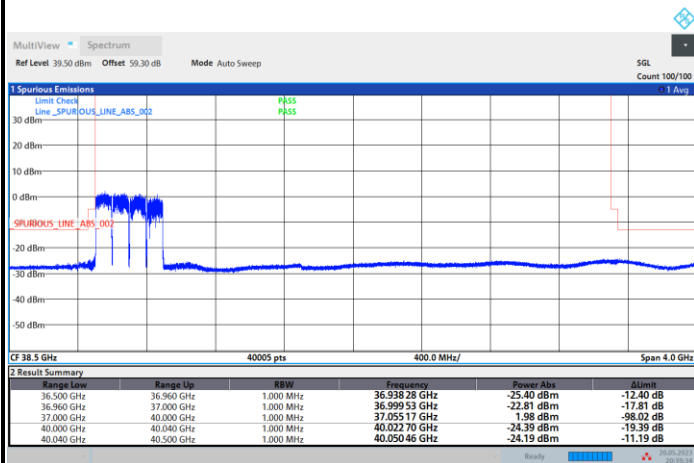
Highest Band Edge / Full RB



09:44:26 23.05.2023

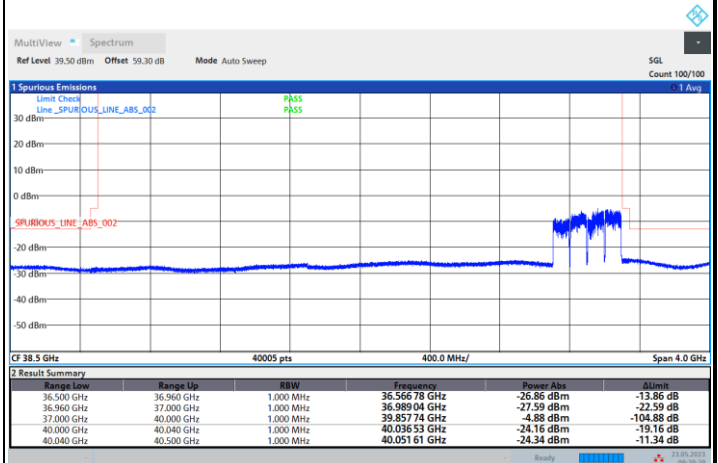
NR Band n260 / 400MHz / 16QAM

Lowest Band Edge / Full RB



20:39:34 20.05.2023

Highest Band Edge / Full RB



09:29:29 23.05.2023

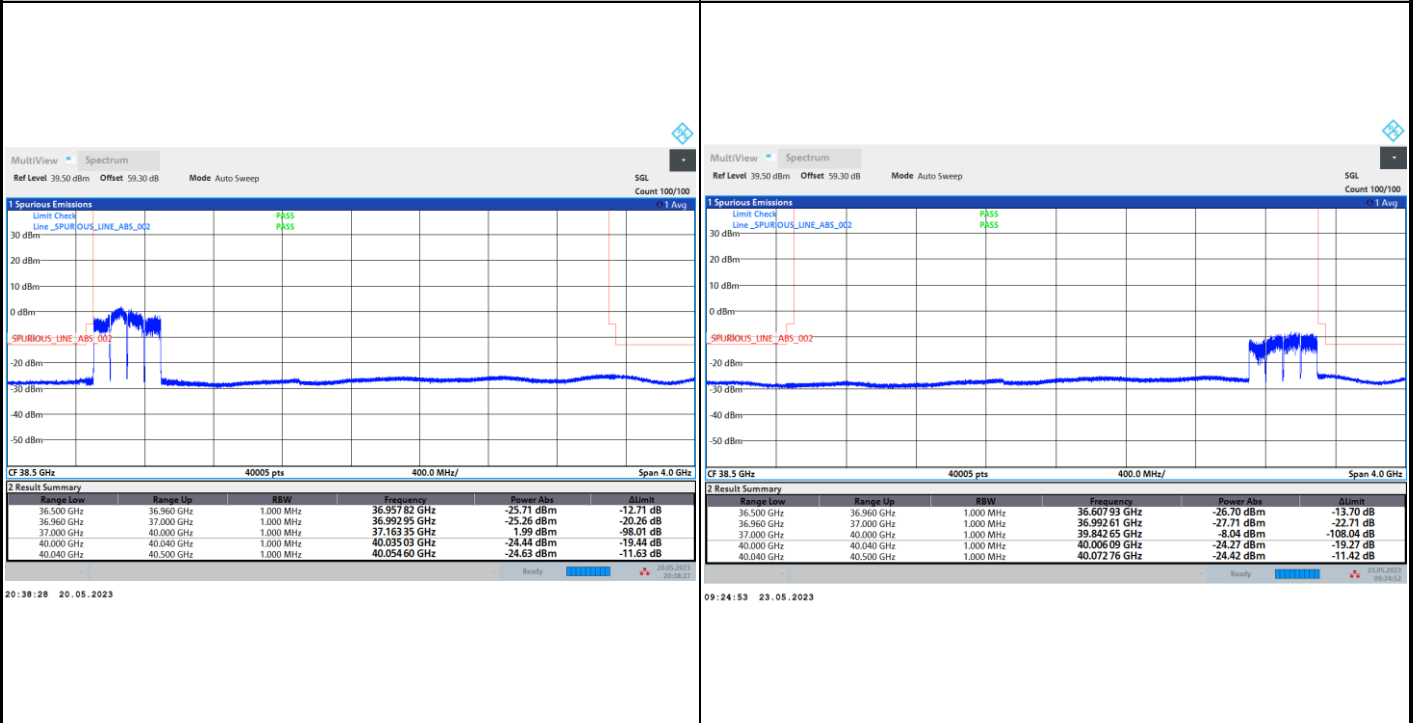


DFT-s-OFDM Module B

NR Band n260 / 400MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

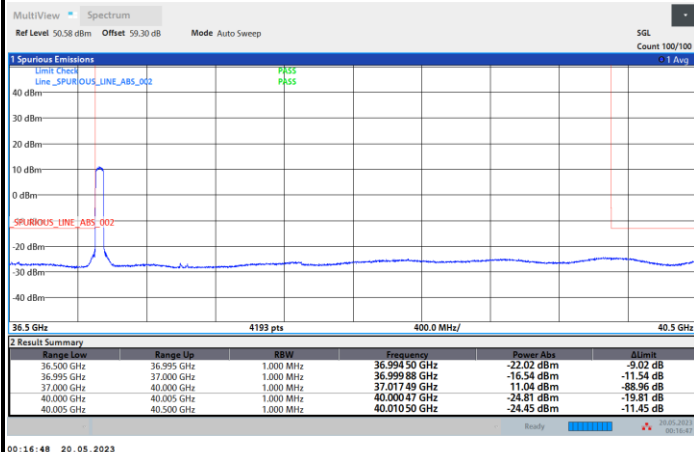




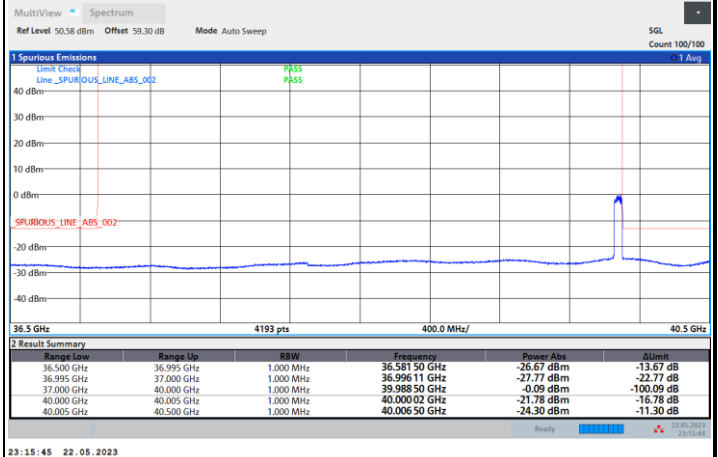
CP-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

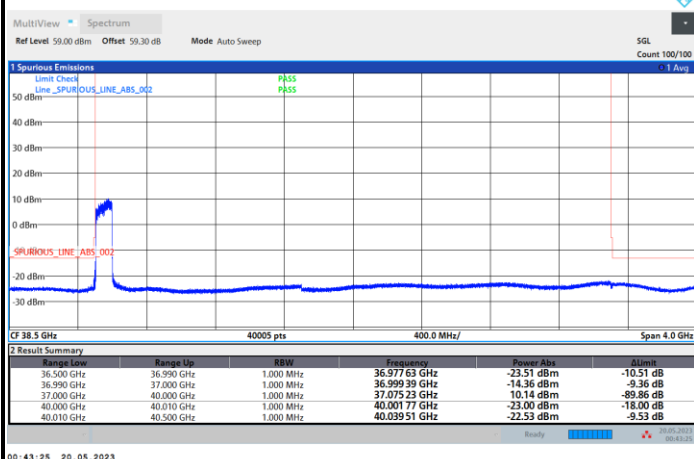


Highest Band Edge / Full RB

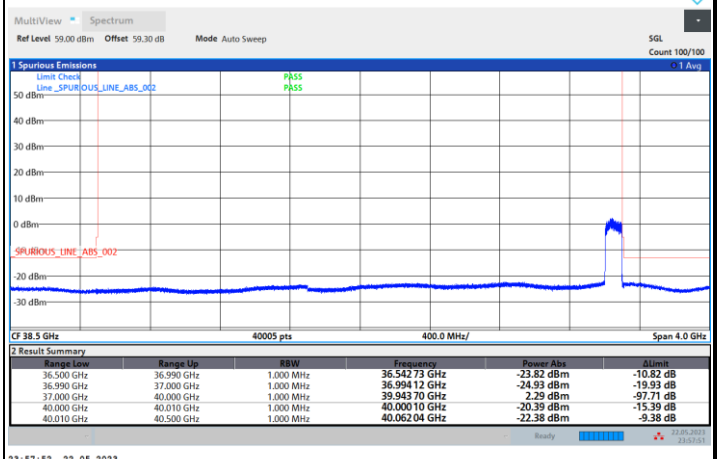


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

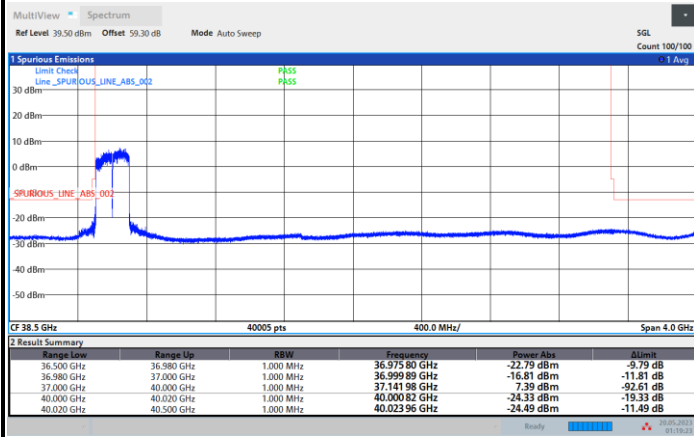




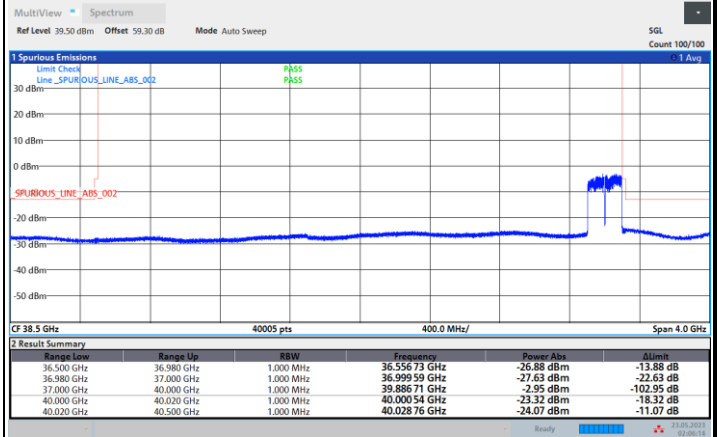
CP-OFDM Module B

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / Full RB

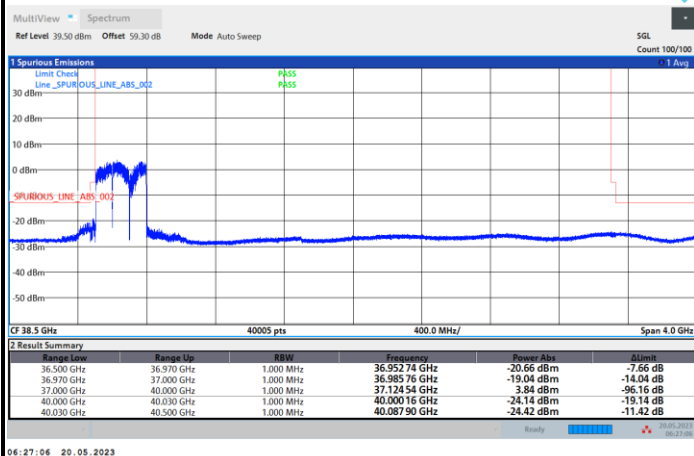


Highest Band Edge / Full RB



NR Band n260 / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



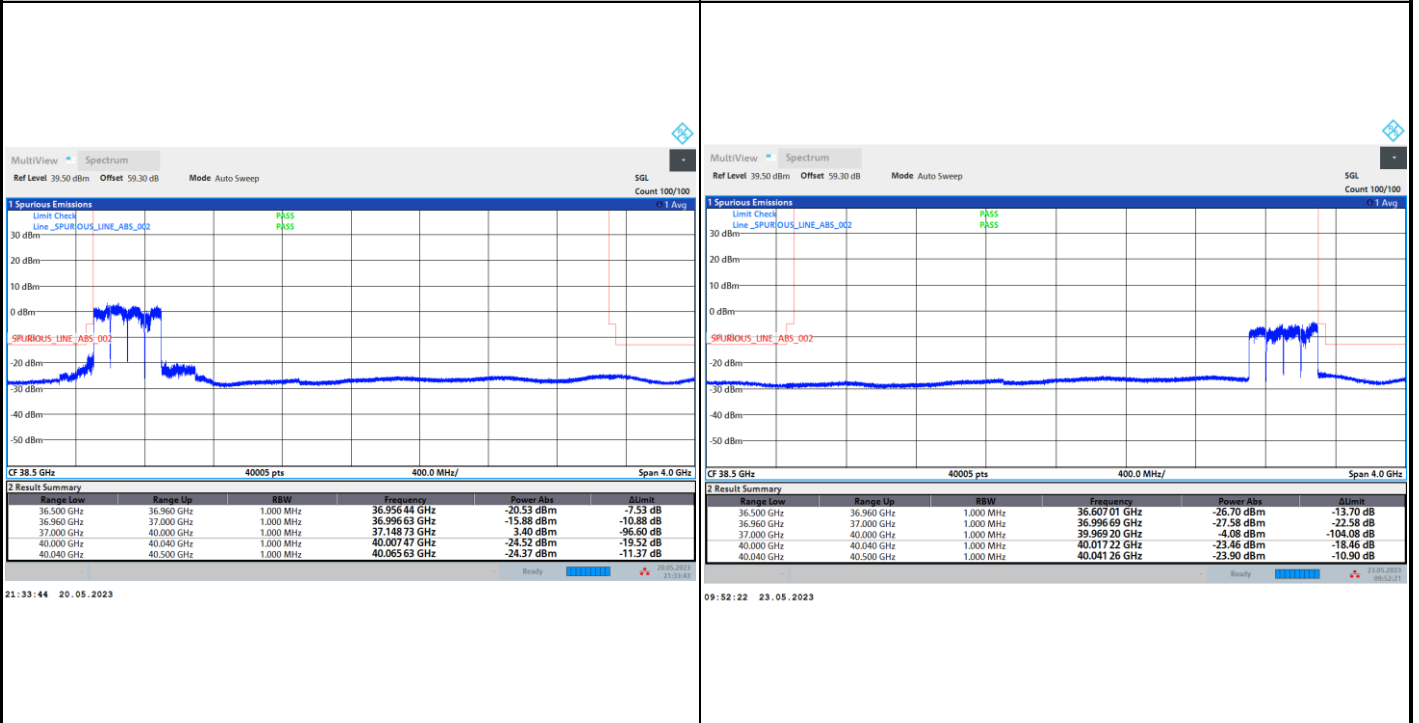


CP-OFDM Module B

NR Band n260 / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

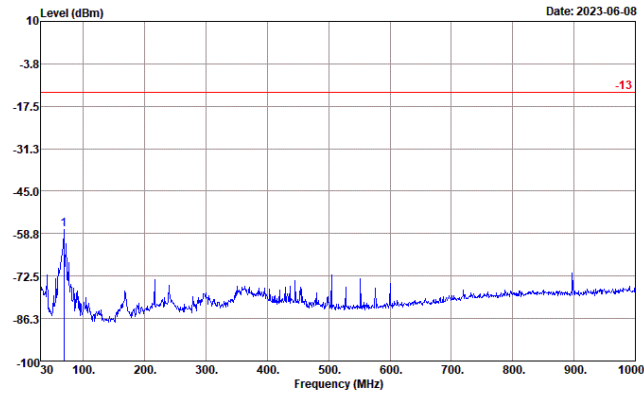




Spurious Emission

NR Band n260 (30MHz-1GHz)

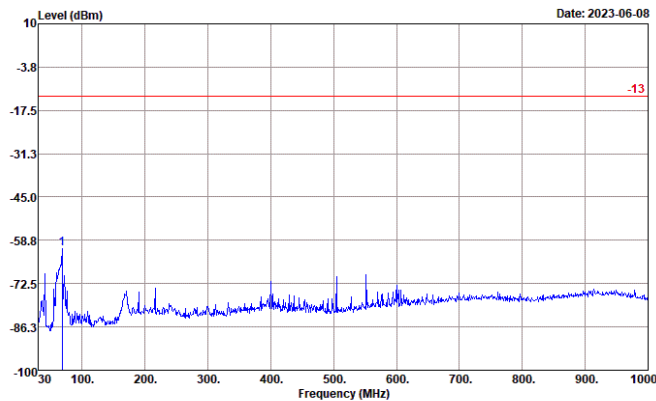
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0206-01
 : n260 MB

Freq	Level	Over	Limit	Read
MHz	dBm	Limit	Line	Level
1	67.83 -57.51	-44.51	-13.00	-52.55

Vertical



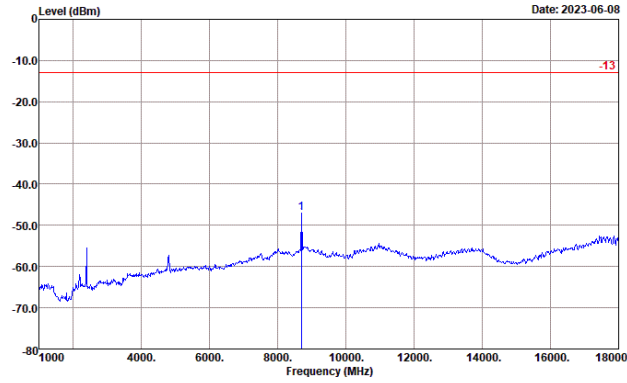
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0206-01
 : n260 MB

Freq	Level	Over	Limit	Read
MHz	dBm	Limit	Line	Level
1	67.83 -61.44	-48.44	-13.00	-53.26



NR Band n260 (1GHz-18GHz)

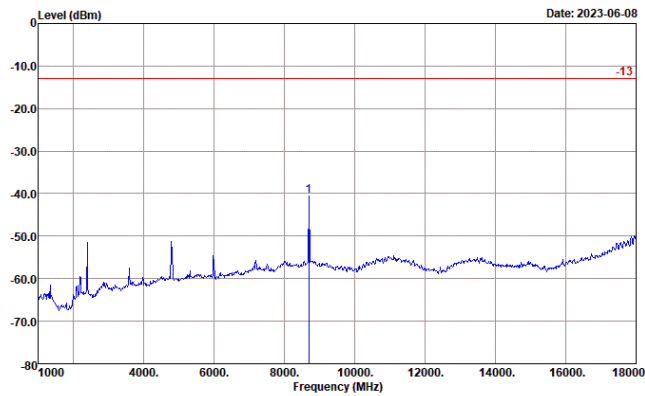
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0206-01
 : n260 MB

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1	8701.00	-46.92	-33.92 -13.00

Vertical



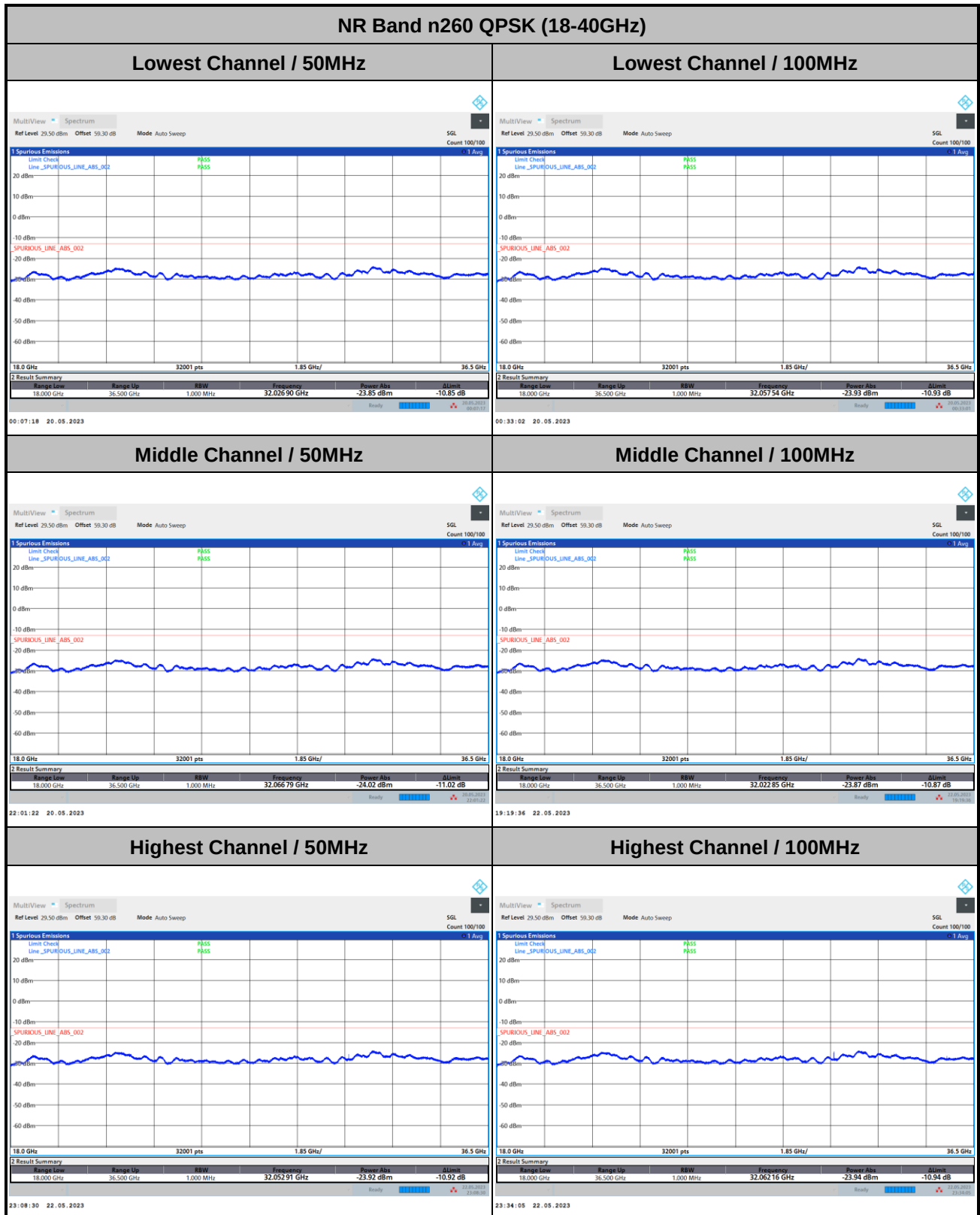
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0206-01
 : n260 MB

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1	8701.00	-40.52	-27.52 -13.00



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

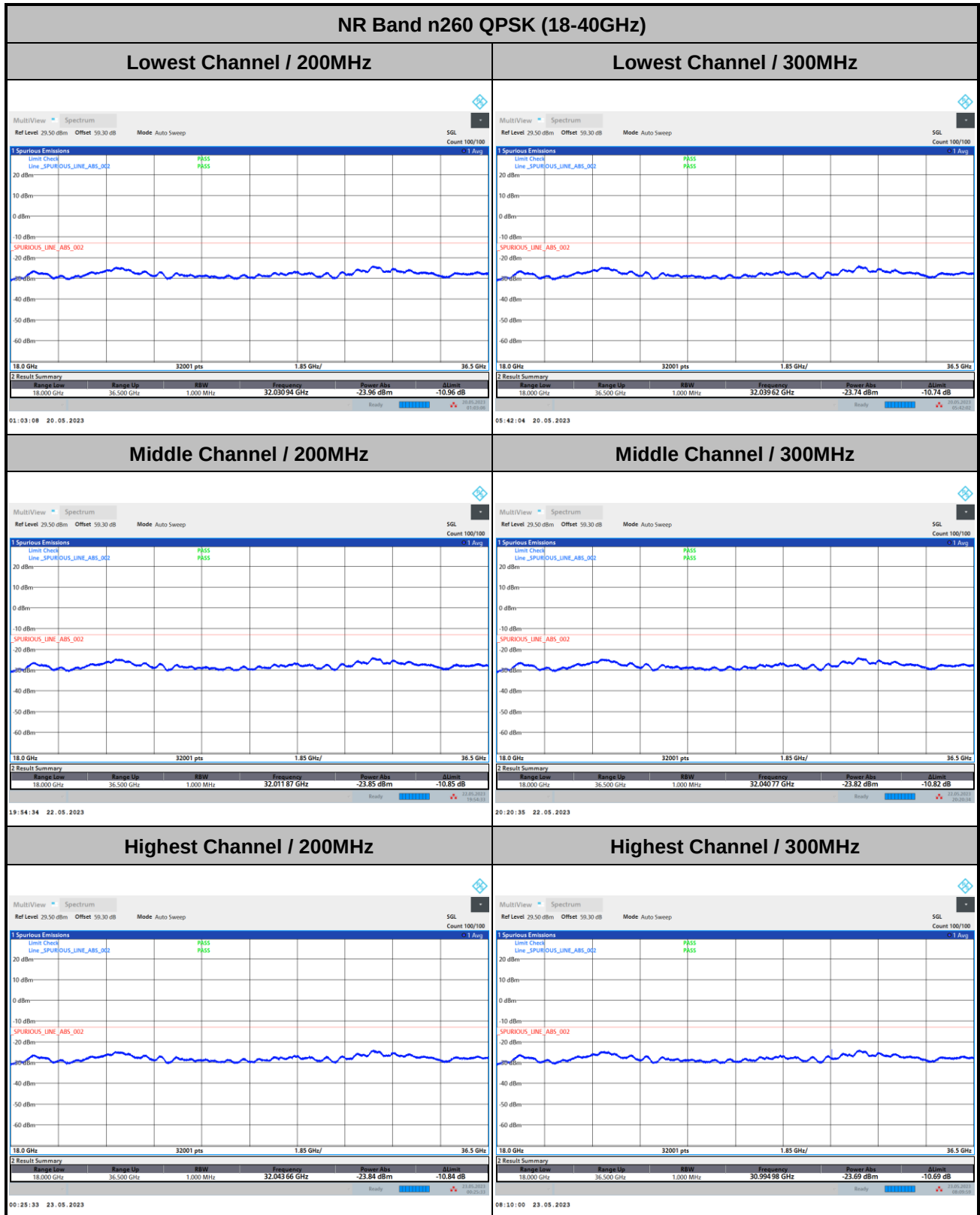
DFT-s-OFDM Module B



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



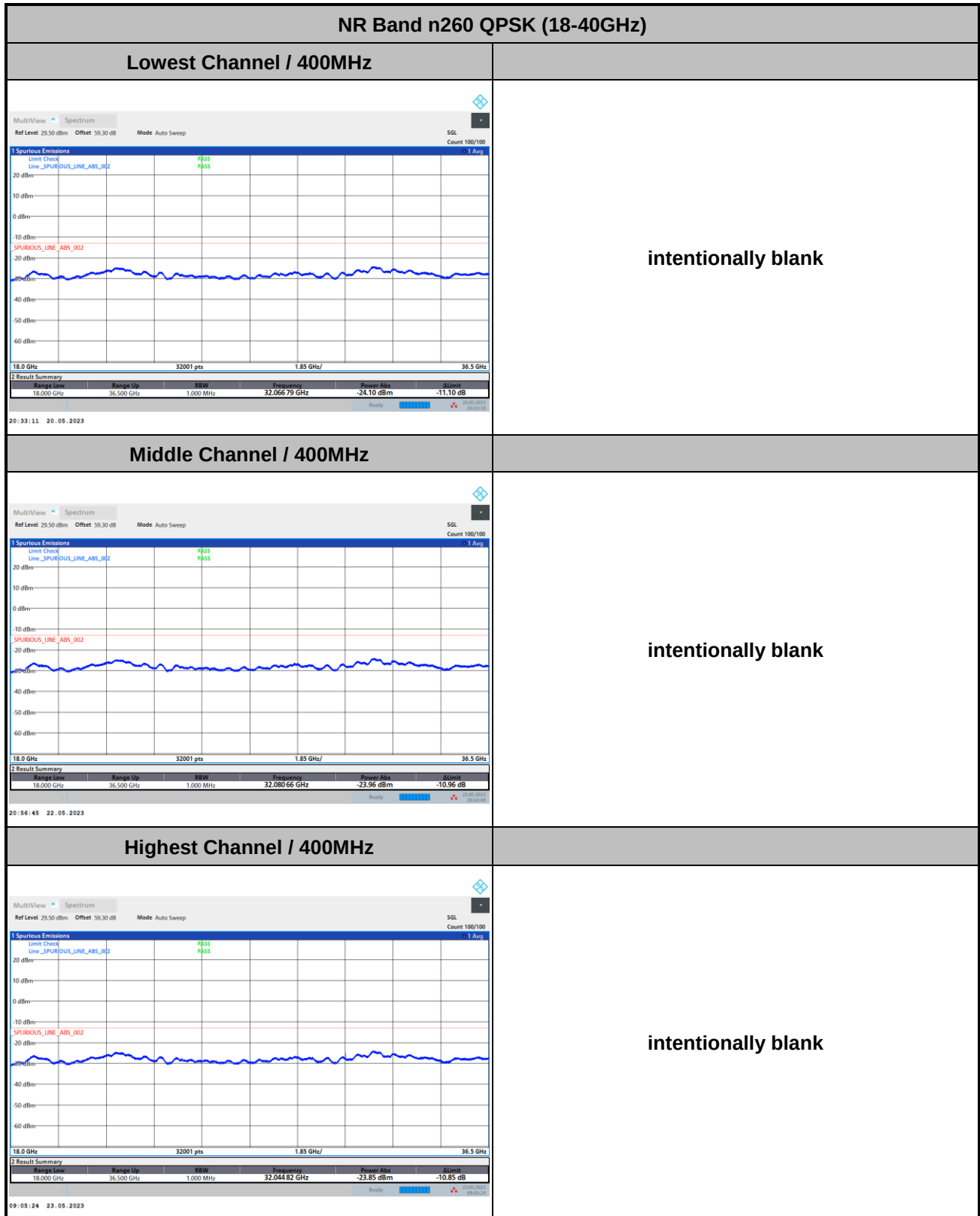
DFT-s-OFDM Module B



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



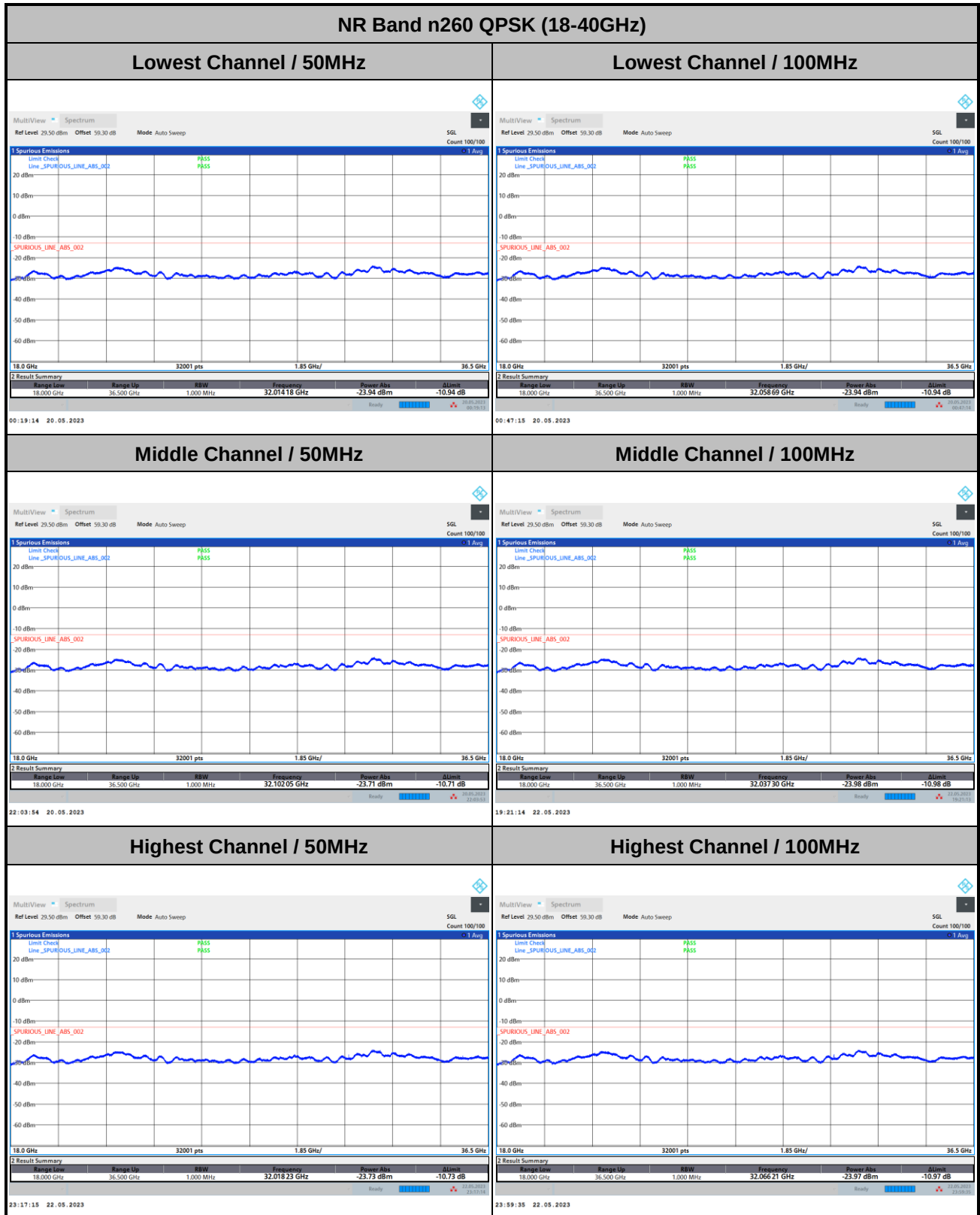
DFT-s-OFDM Module B



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



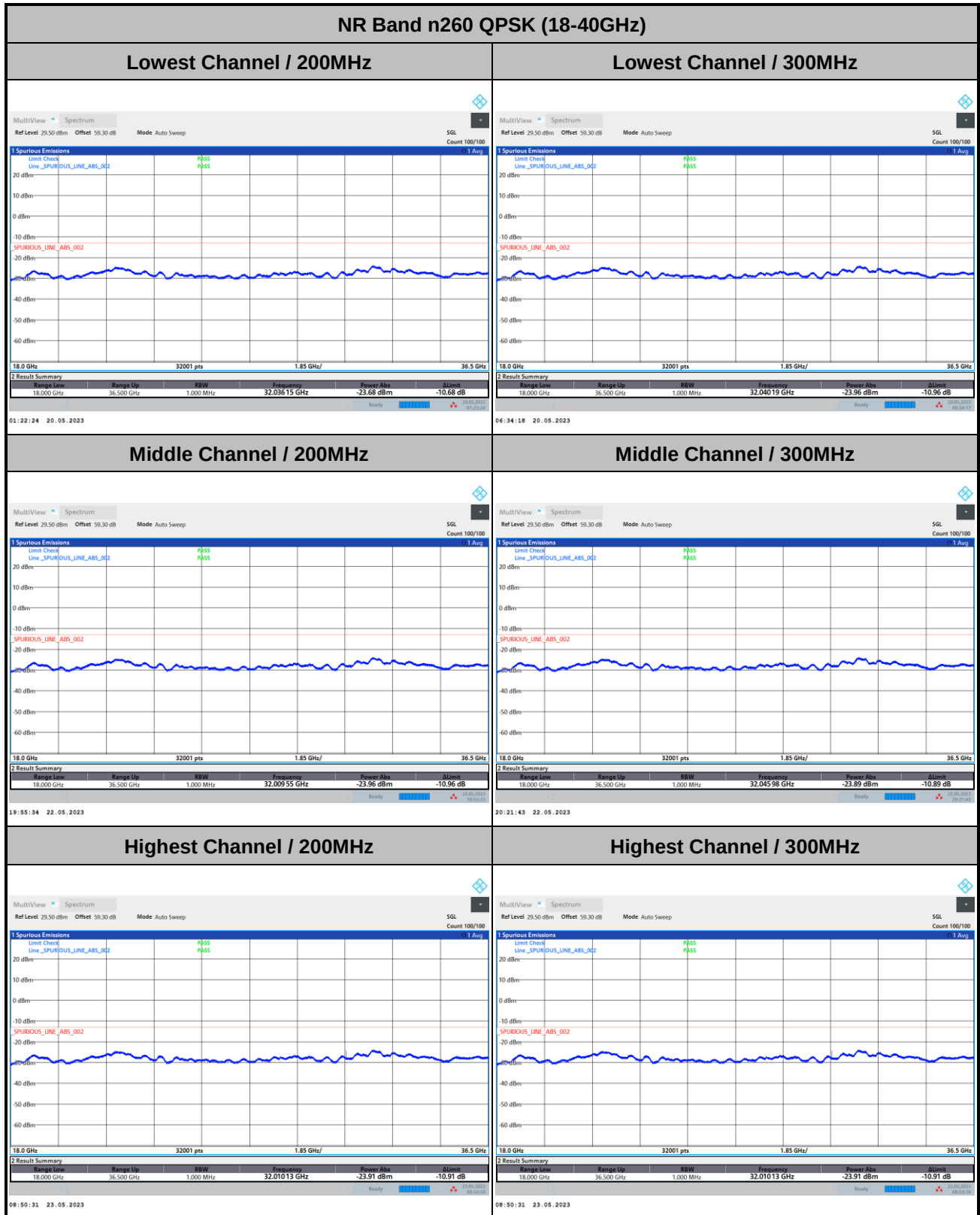
CP-OFDM Module B



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



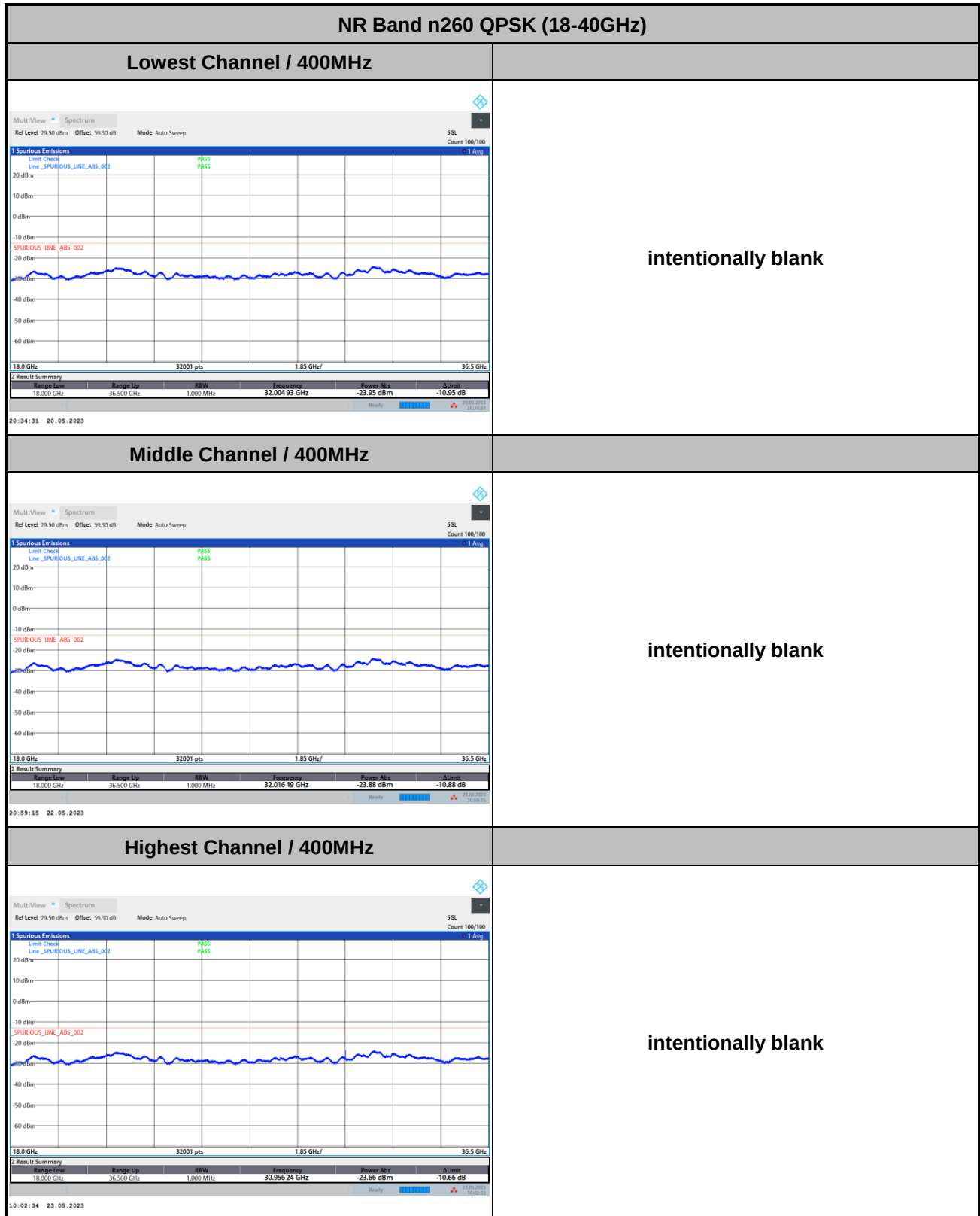
CP-OFDM Module B



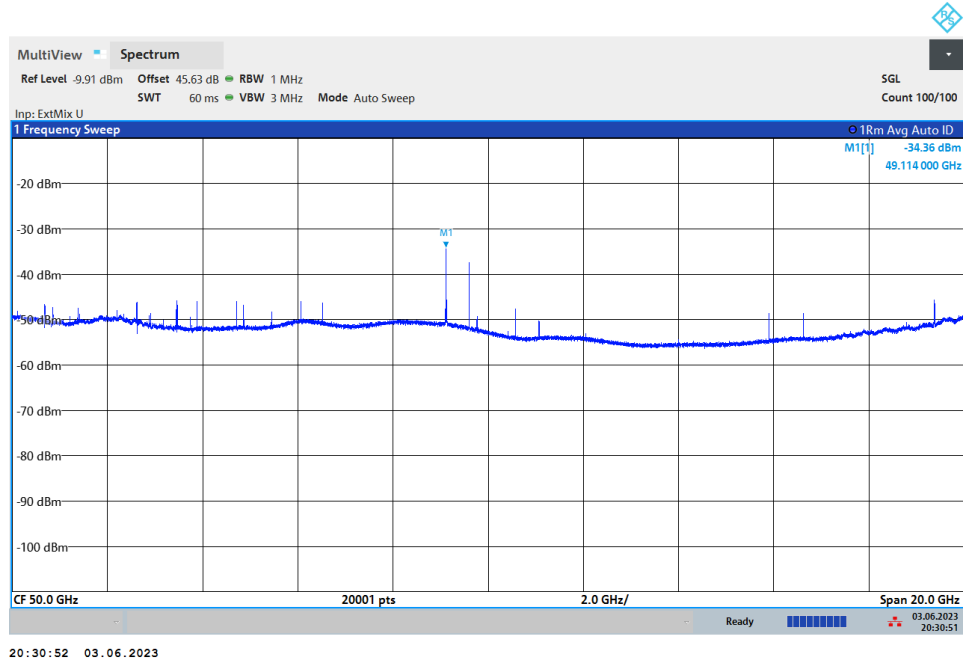
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module B

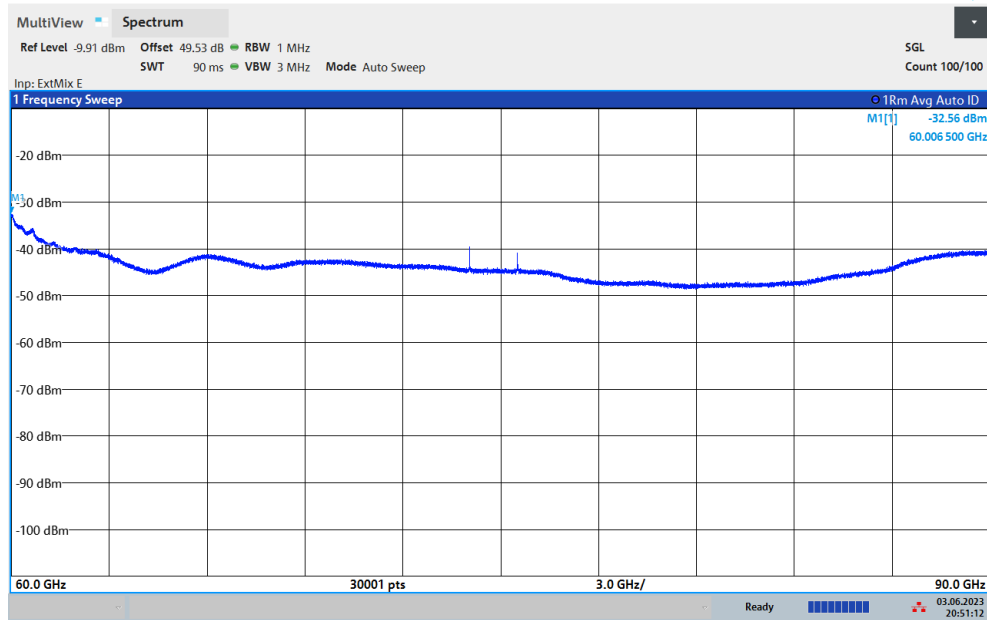


Remark: In band and out of band frequencies are omitted.

NR Band n260
(40GHz-60GHz)


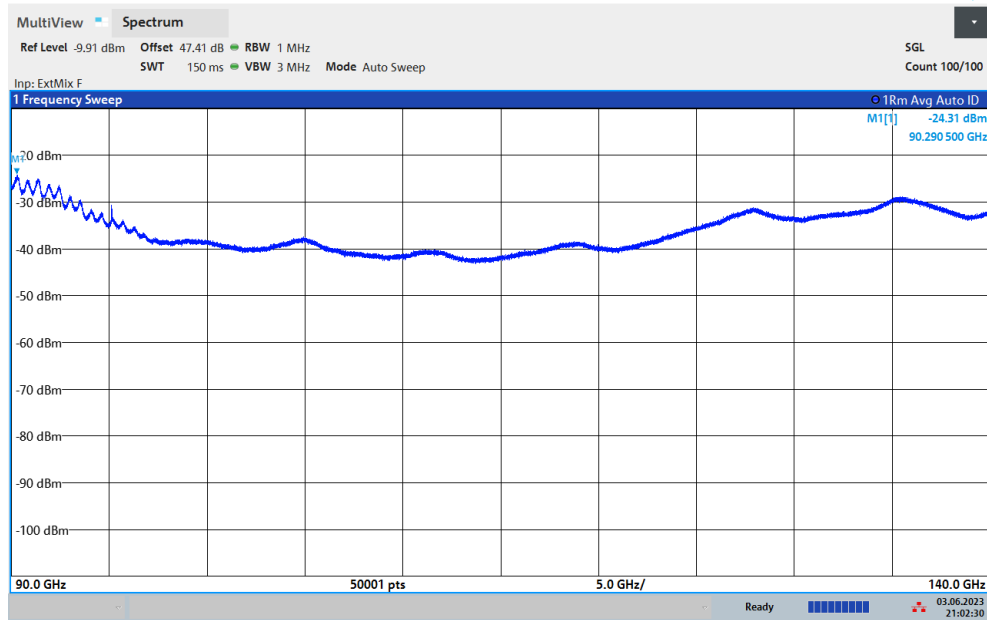
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor}$$

$$= 43 + 0.43 + 107 + 20\log(1) - 104.8 = 45.63(\text{dB})$$

NR Band n260
(60GHz-90GHz)


20:51:12 03.06.2023

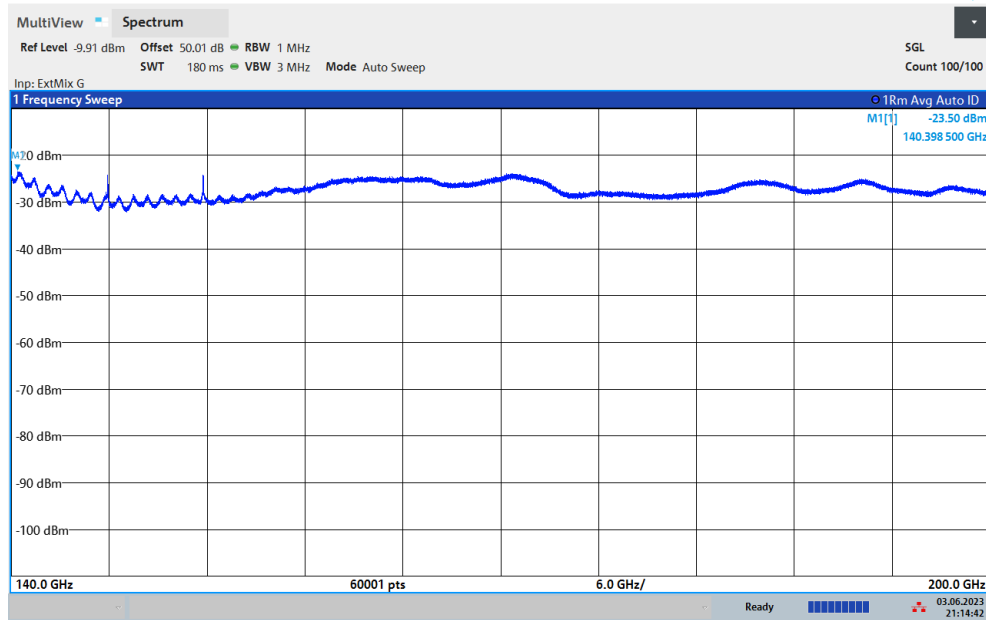
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 = 49.53 \text{ (dB)} \end{aligned}$$

NR Band n260
(90GHz-140GHz)


21:02:31 03.06.2023

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

$$= 50.80 + 0.43 + 107 + 20\log(0.5) - 104.8 = 47.41 \text{ (dB)}$$

NR Band n260
(140GHz-200GHz)


21:14:42 03.06.2023

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

Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.499995	54.000	1.403	Pass
40	Normal Voltage	38.499981	68.000	1.766	
30	Normal Voltage	38.500013	36.000	0.935	
20(Ref.)	Normal Voltage	38.500049	0.000	0.000	
10	Normal Voltage	38.5000989	-49.900	1.296	
0	Normal Voltage	38.5001788	-129.800	3.371	
-10	Normal Voltage	38.5002118	-162.800	4.229	
-20	Normal Voltage	38.5002098	-160.800	4.177	
-30	Normal Voltage	38.5001658	-116.800	3.034	
20	Maximum Voltage	38.500023	26.000	0.675	
20	Normal Voltage	38.500035	14.000	0.364	
20	Battery End Point	38.500042	7.000	0.182	

Note:

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

NR Band n261 Module A AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.17	46.02	45.89	91.06	91.13	90.95	189.47	189.45	189.56
Middle CH	46.28	46.35	46.01	91.60	91.55	91.43	189.84	189.52	189.52
Highest CH	46.41	46.30	46.02	91.36	91.22	91.34	189.38	189.30	189.44

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	287.83	287.45	288.13	386.99	385.24	386.84
Middle CH	288.61	288.77	287.65	385.51	387.21	385.72
Highest CH	288.45	287.18	287.99	386.55	386.77	385.82

Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.01	94.06	192.54
Middle CH	46.42	94.94	193.74
Highest CH	46.54	94.44	192.66

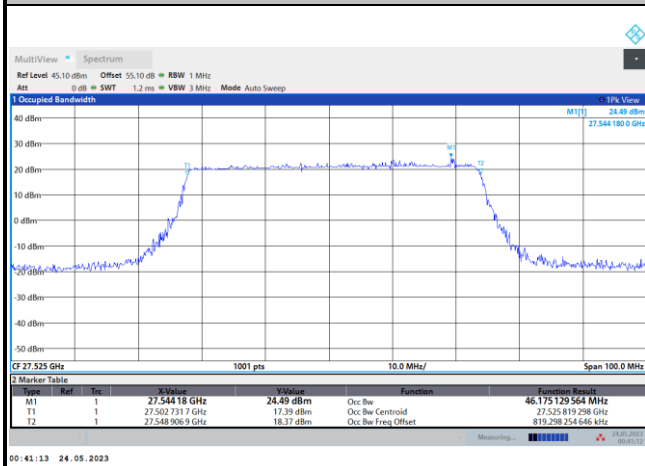
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	290.12	387.46
Middle CH	292.61	391.28
Highest CH	292.54	392.48



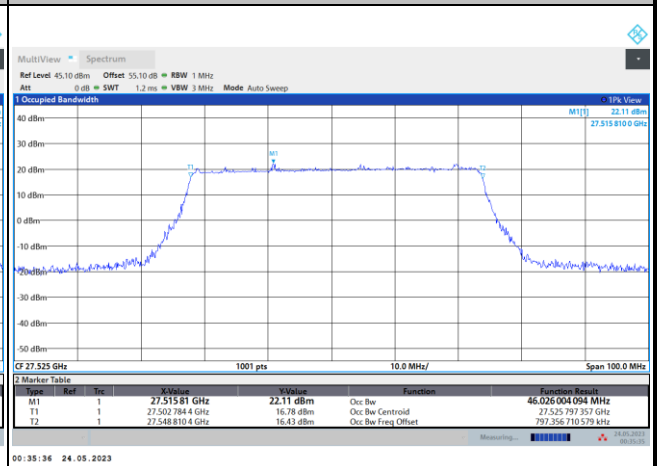
DFT-s-OFDM Module A

NR Band n261

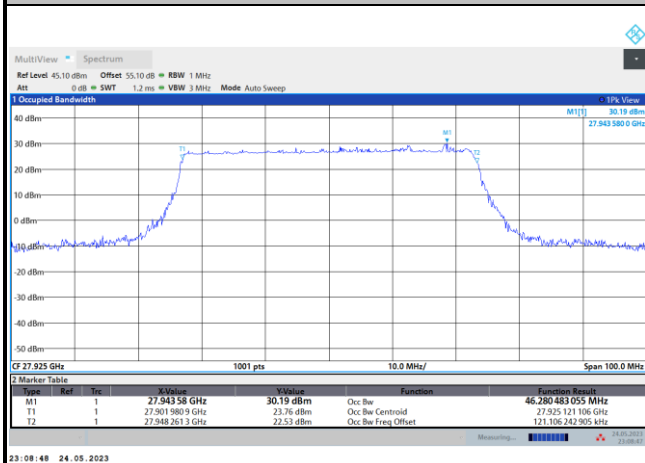
Lowest Channel / 50MHz / QPSK



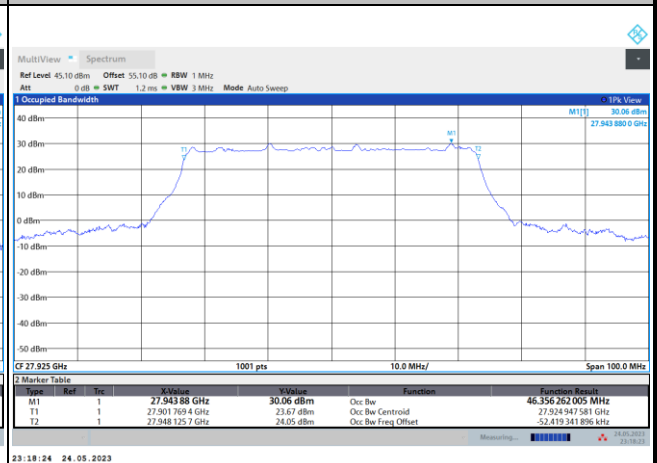
Lowest Channel / 50MHz / 16QAM



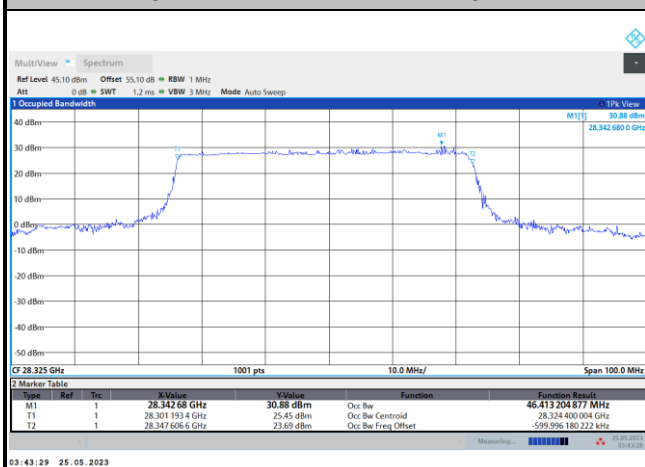
Middle Channel / 50MHz / QPSK



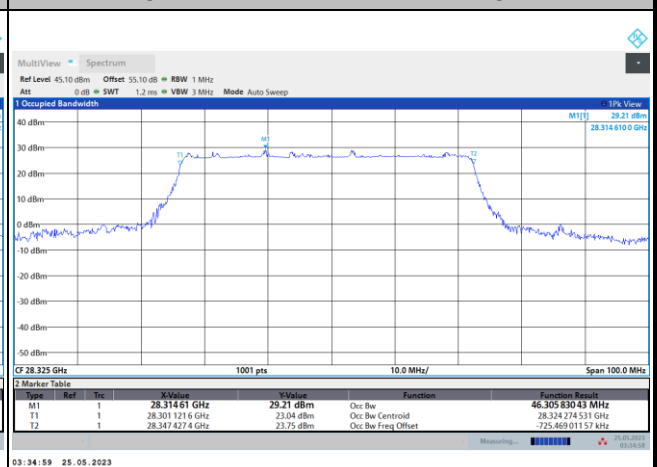
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK

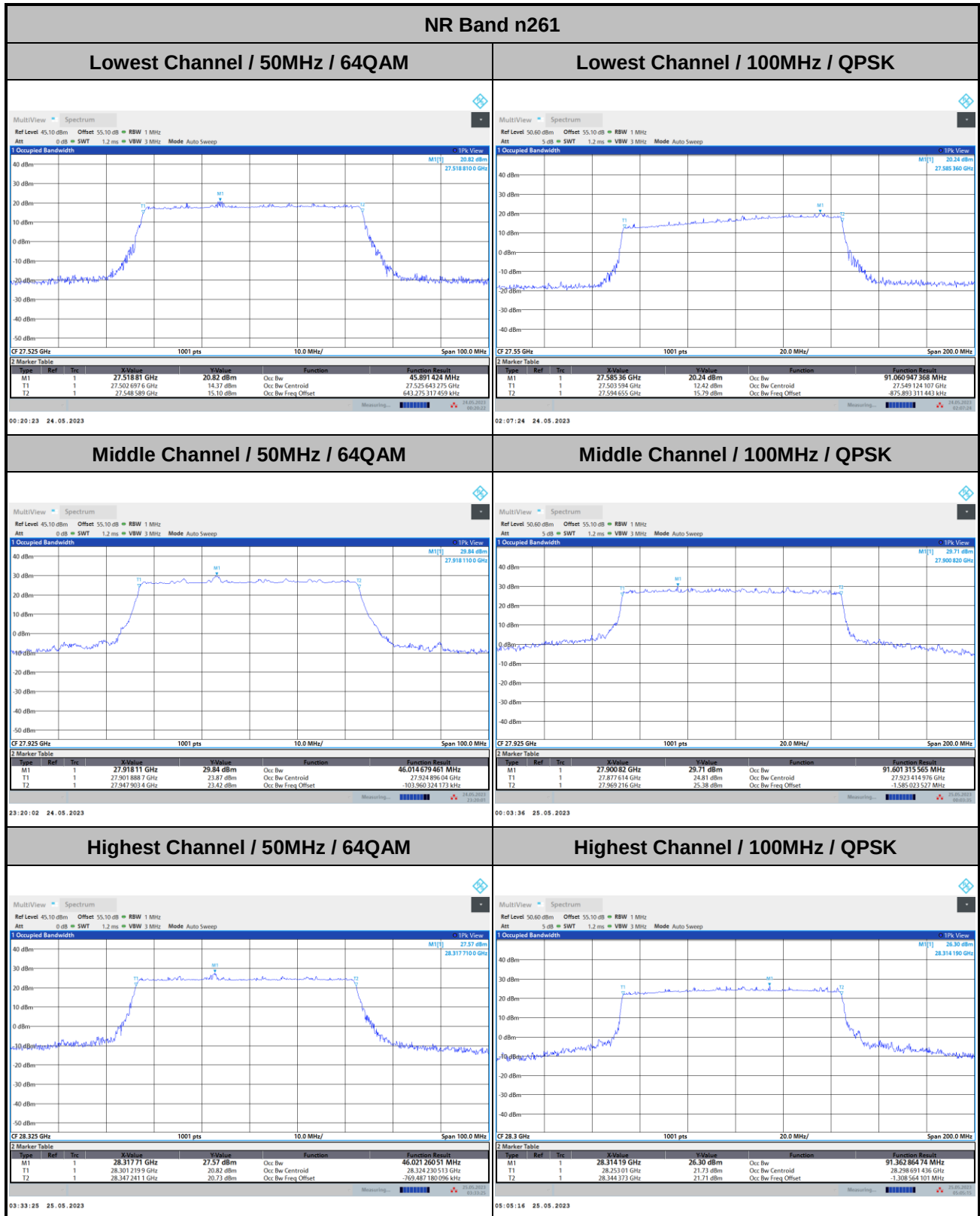


Highest Channel / 50MHz / 16QAM





DFT-s-OFDM Module A

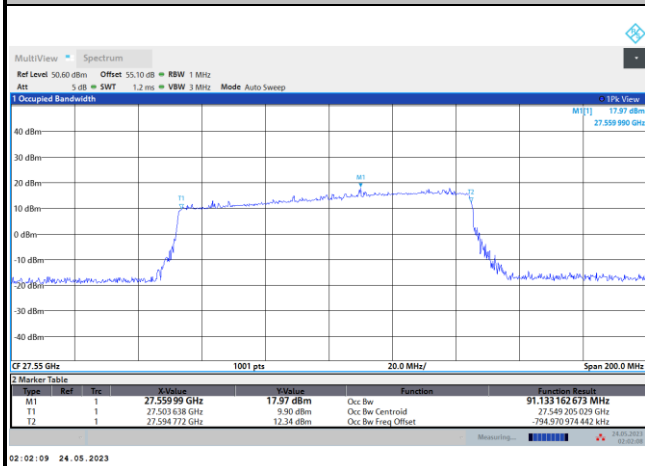




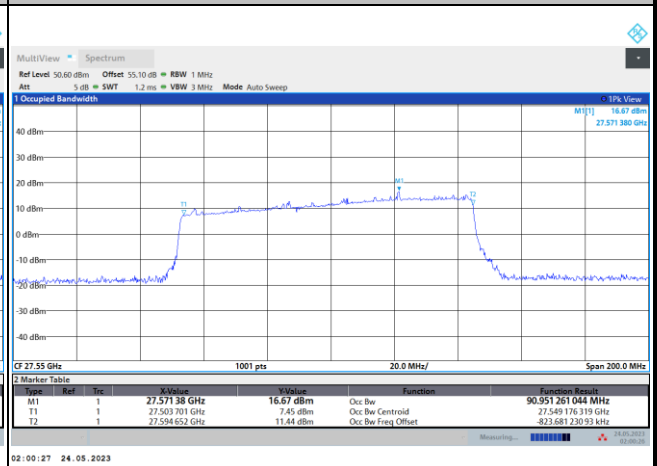
DFT-s-OFDM Module A

NR Band n261

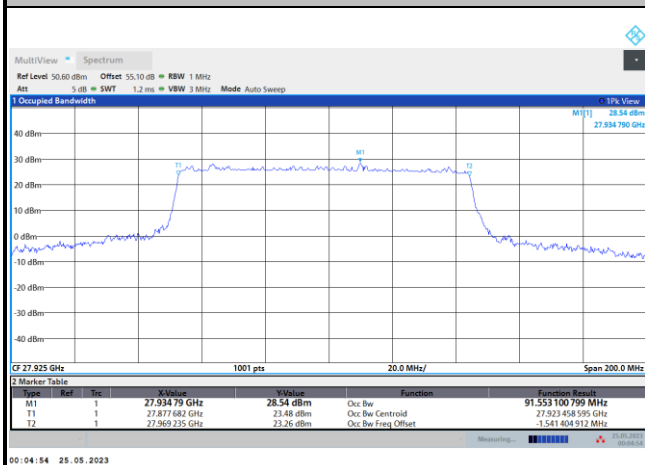
Lowest Channel / 100MHz / 16QAM



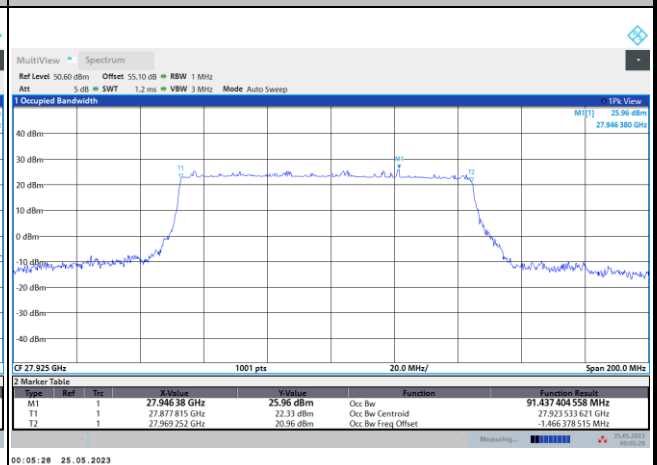
Lowest Channel / 100MHz / 64QAM



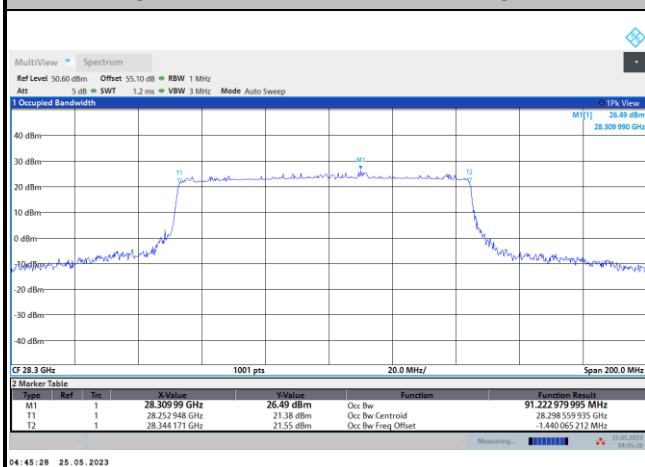
Middle Channel / 100MHz / 16QAM



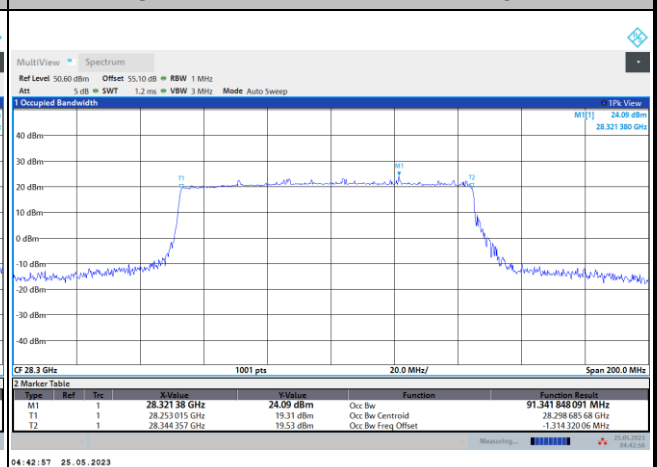
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

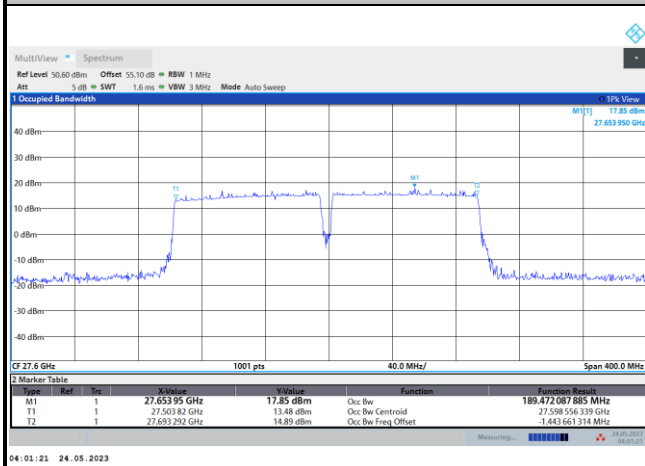




DFT-s-OFDM Module A

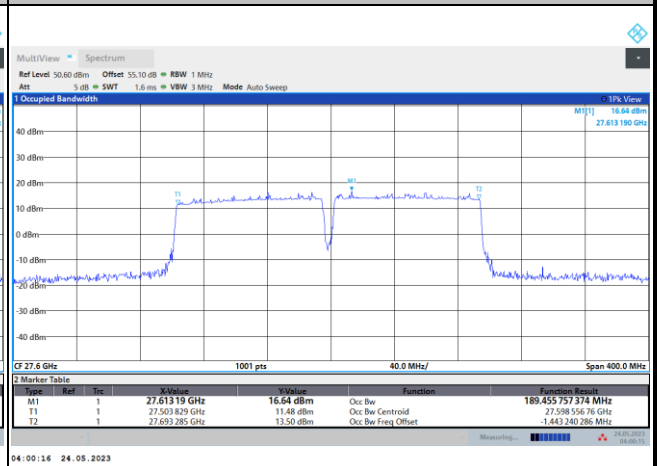
NR Band n261

Lowest Channel / 200MHz / QPSK



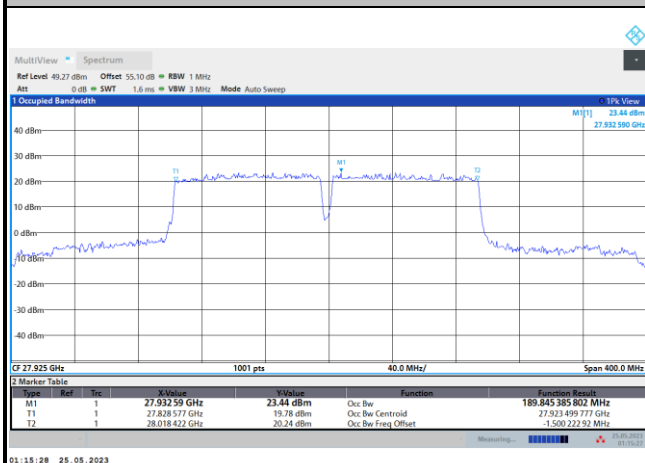
04:01:21 24.05.2023

Lowest Channel / 200MHz / 16QAM



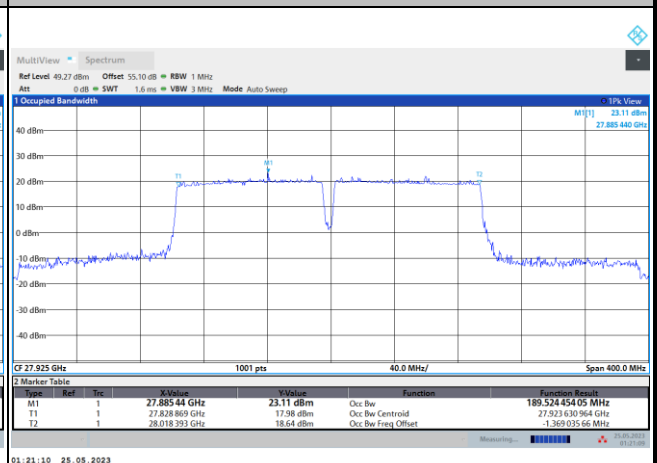
04:00:16 24.05.2023

Middle Channel / 200MHz / QPSK



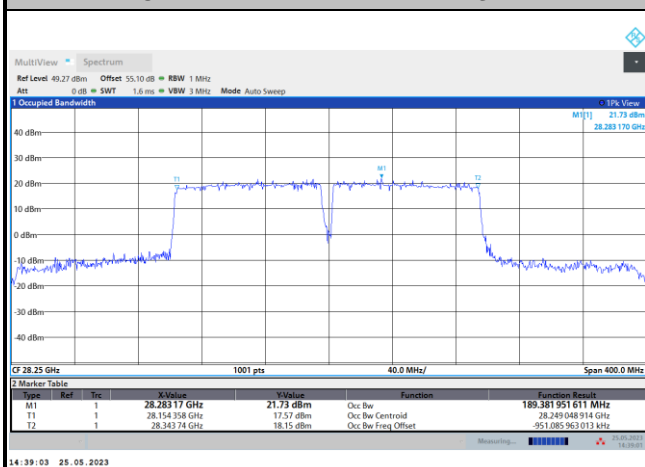
01:15:28 25.05.2023

Middle Channel / 200MHz / 16QAM



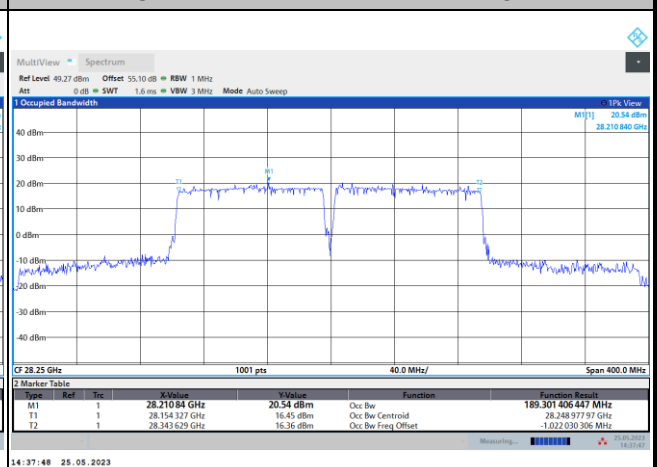
01:21:10 25.05.2023

Highest Channel / 200MHz / QPSK



14:39:03 25.05.2023

Highest Channel / 200MHz / 16QAM



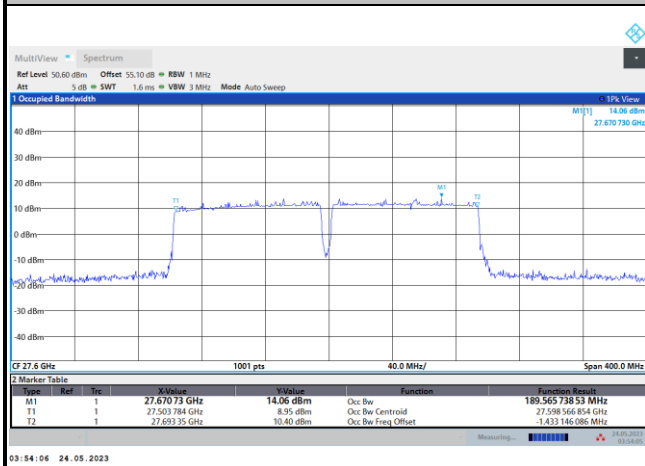
14:37:48 25.05.2023



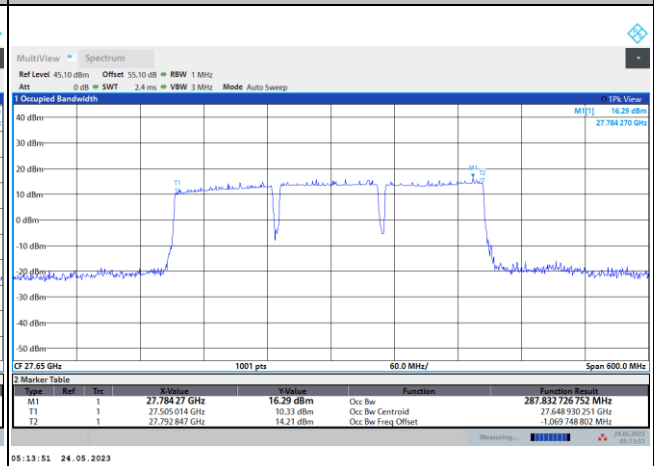
DFT-s-OFDM Module A

NR Band n261

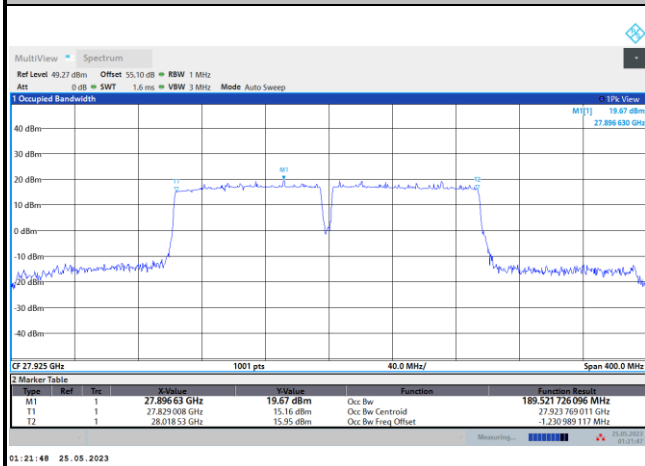
Lowest Channel / 200MHz / 64QAM



Lowest Channel / 300MHz / QPSK



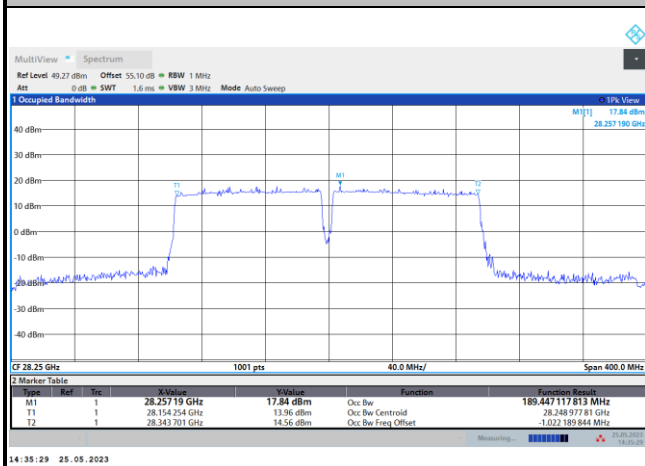
Middle Channel / 200MHz / 64QAM



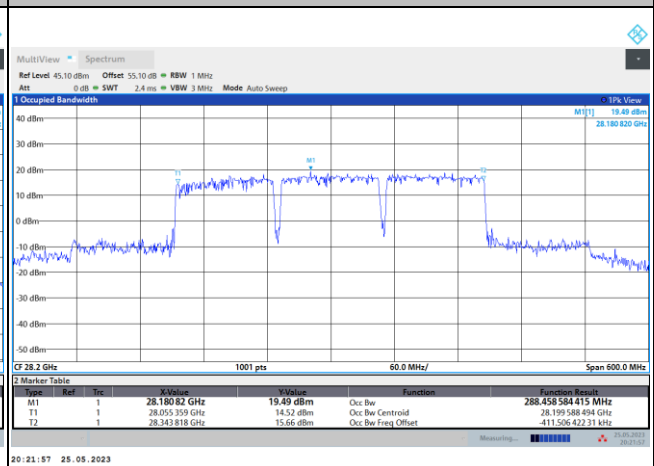
Middle Channel / 300MHz / QPSK

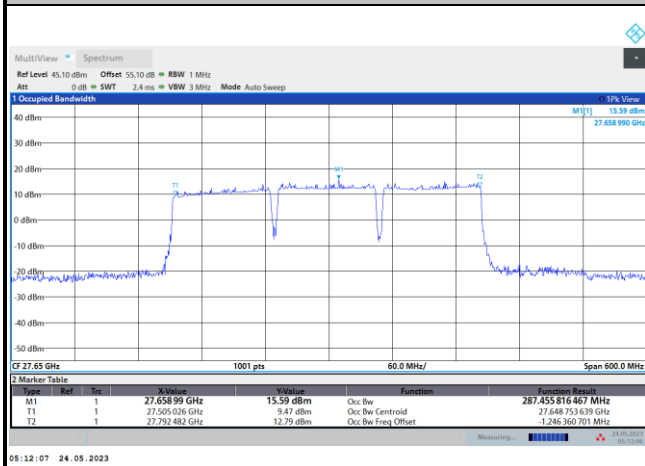
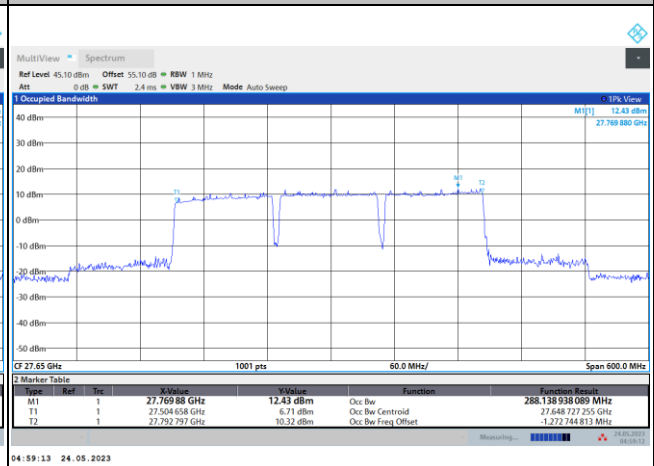


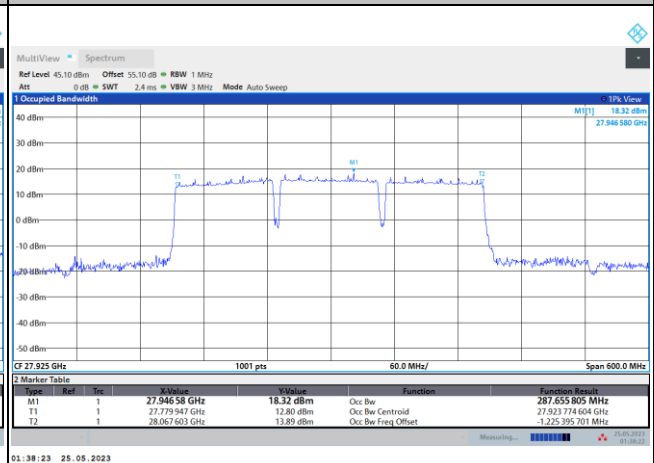
Highest Channel / 200MHz / 64QAM

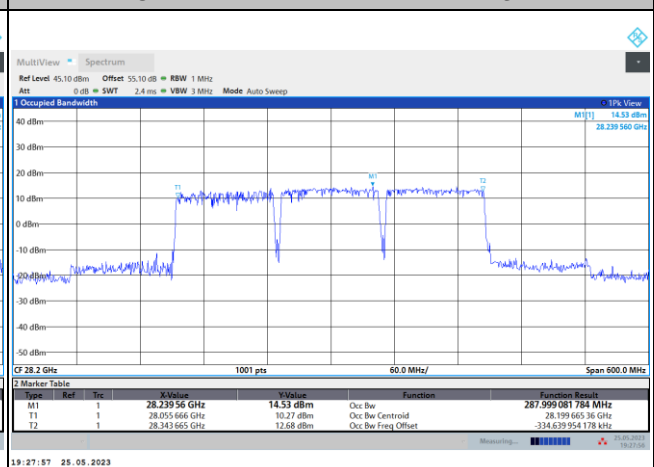


Highest Channel / 300MHz / QPSK



DFT-s-OFDM Module A
NR Band n261
Lowest Channel / 300MHz / 16QAM

Lowest Channel / 300MHz / 64QAM

Middle Channel / 300MHz / 16QAM

Middle Channel / 300MHz / 64QAM

Highest Channel / 300MHz / 16QAM

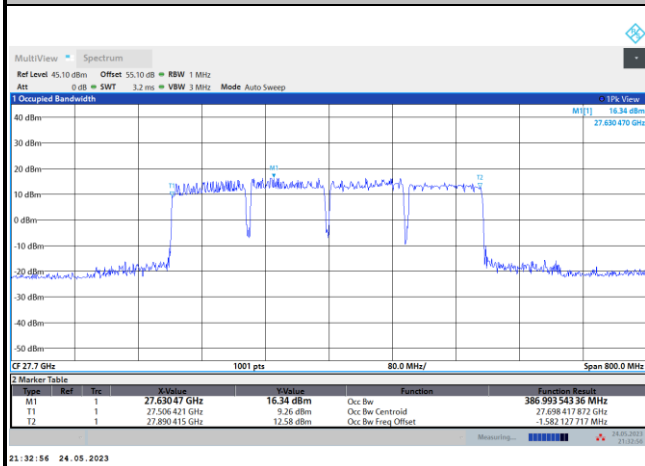
Highest Channel / 300MHz / 64QAM




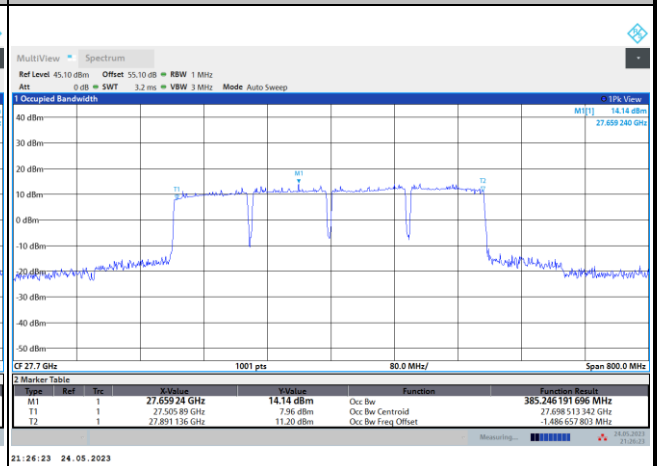
DFT-s-OFDM Module A

NR Band n261

Lowest Channel / 400MHz / QPSK



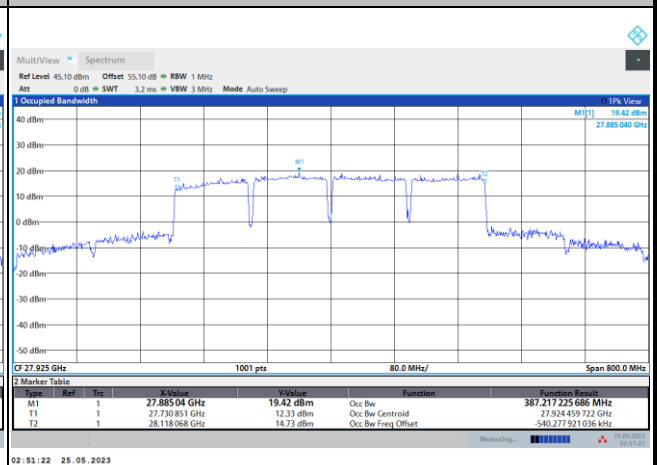
Lowest Channel / 400MHz / 16QAM



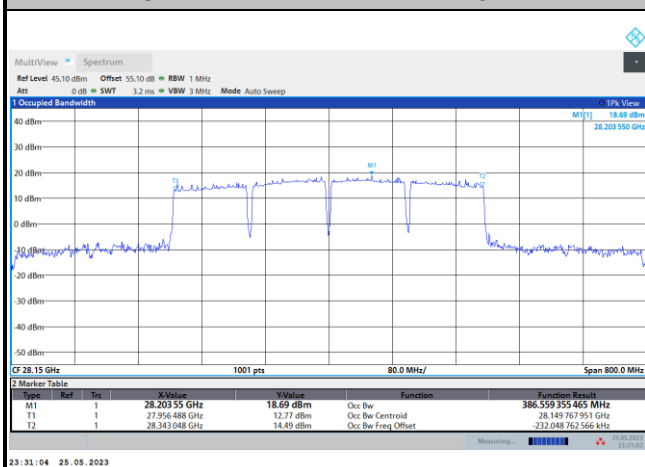
Middle Channel / 400MHz / QPSK



Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM

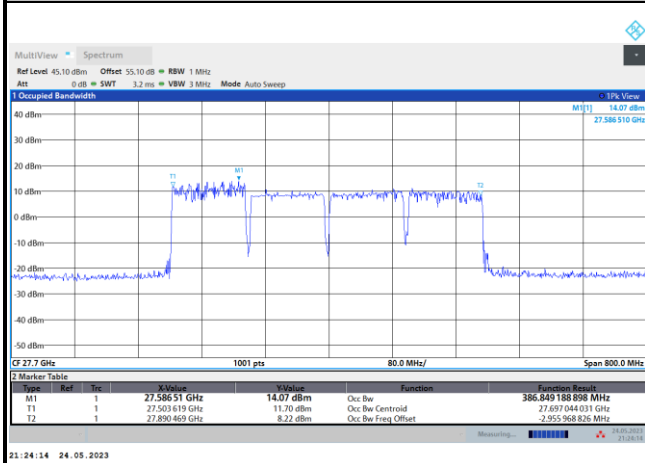




DFT-s-OFDM Module A

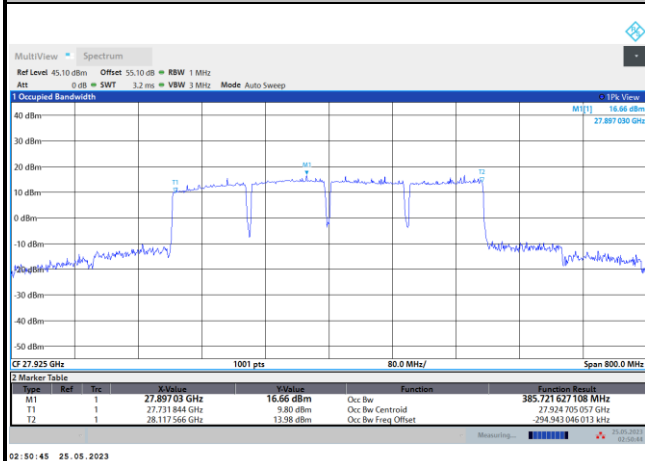
NR Band n261

Lowest Channel / 400MHz / 64QAM



intentionally blank

Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



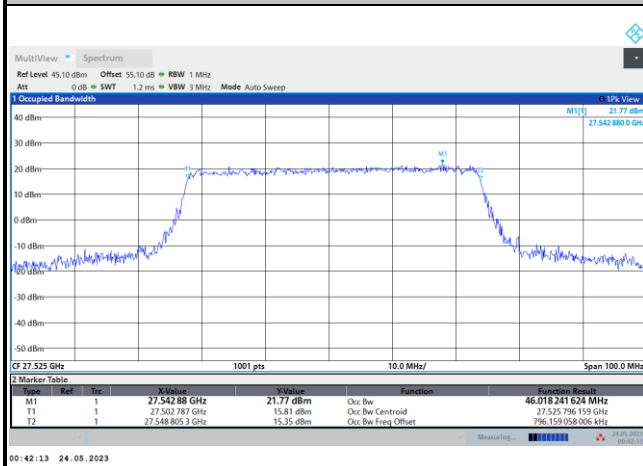
intentionally blank



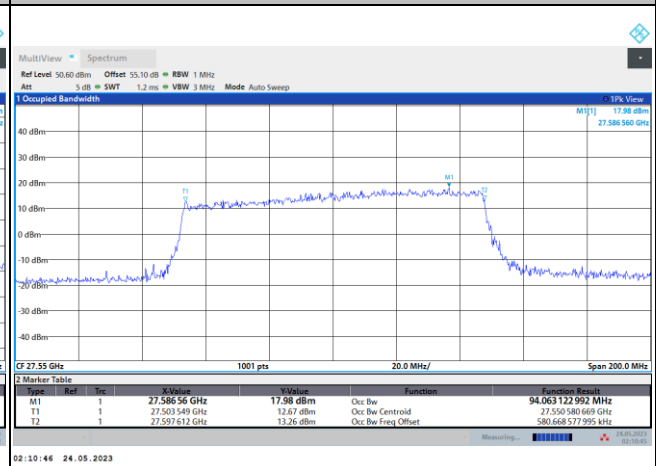
CP-OFDM Module A

NR Band n261

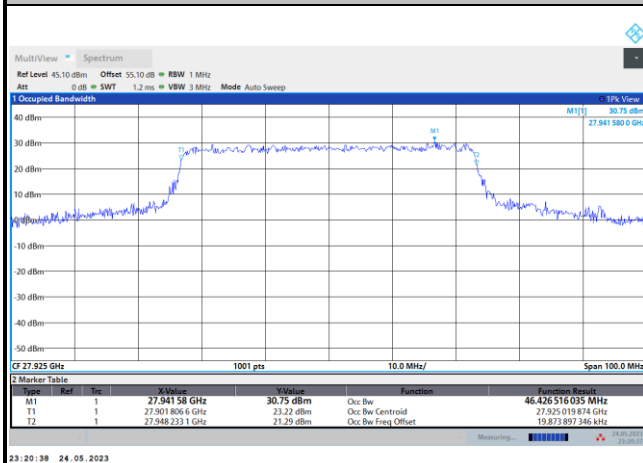
Lowest Channel / 50MHz / QPSK



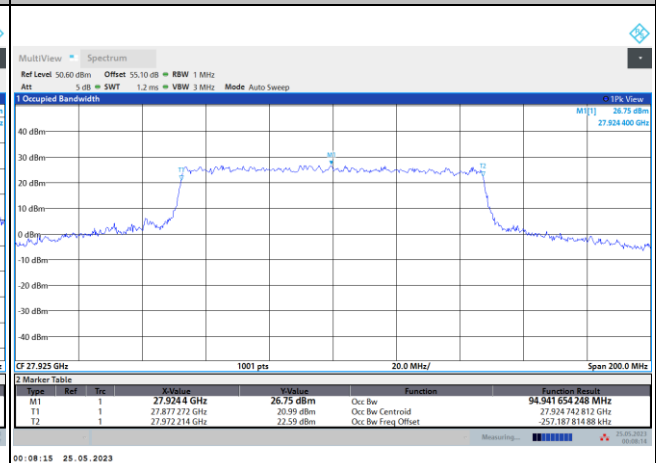
Lowest Channel / 100MHz / QPSK



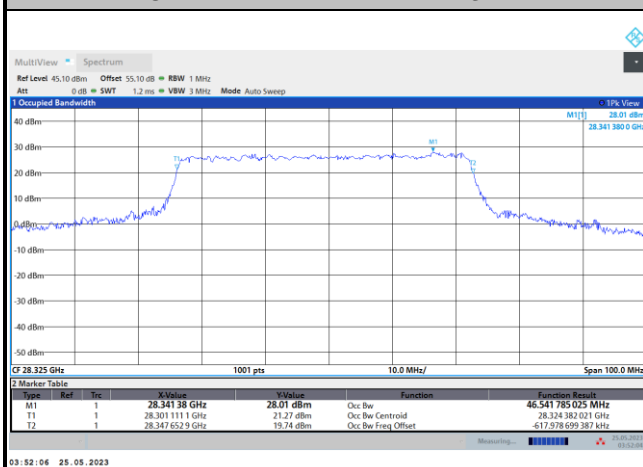
Middle Channel / 50MHz / QPSK



Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

