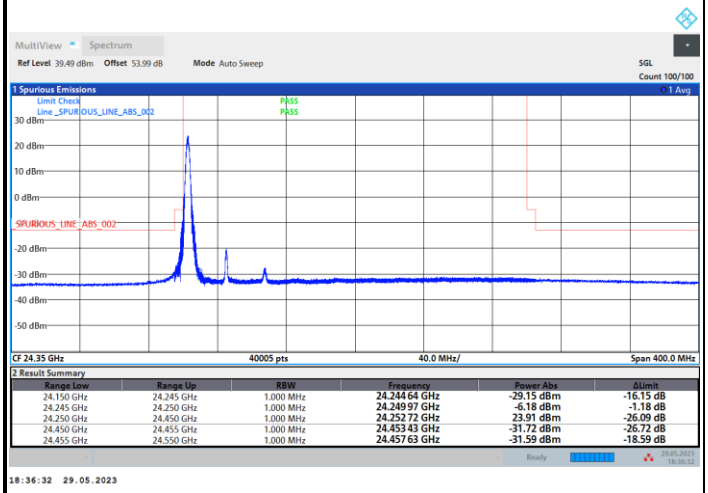
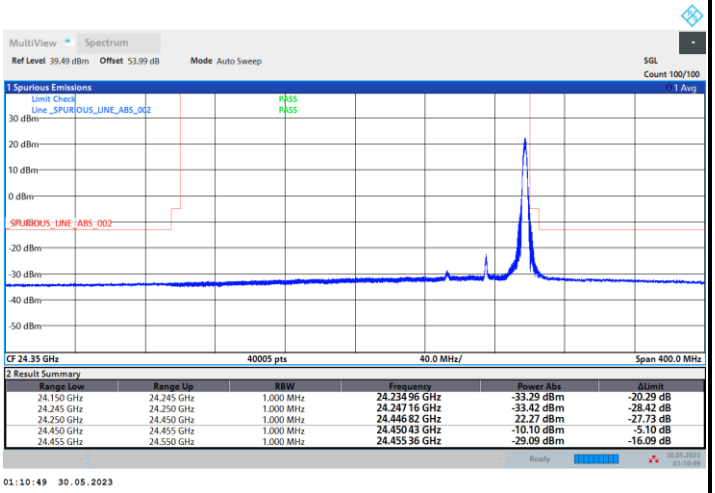
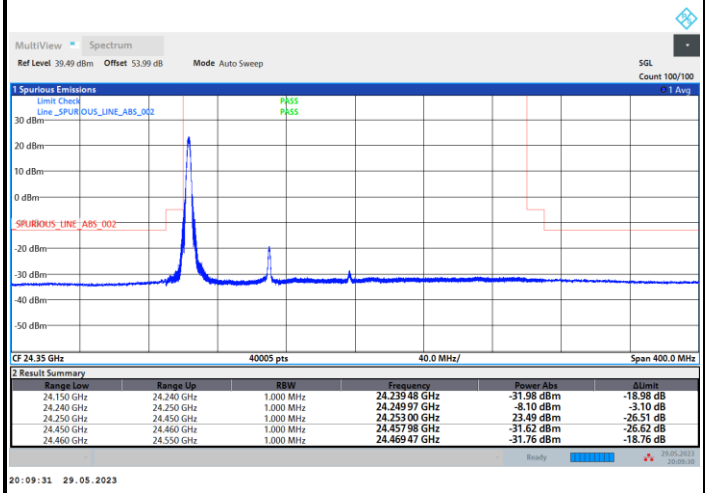
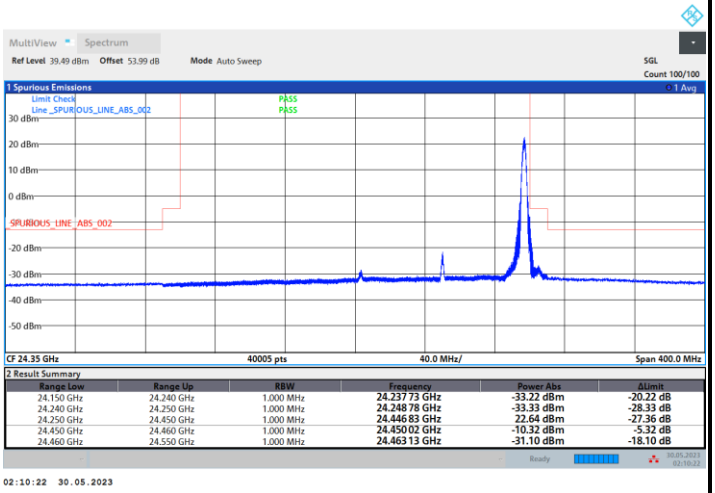
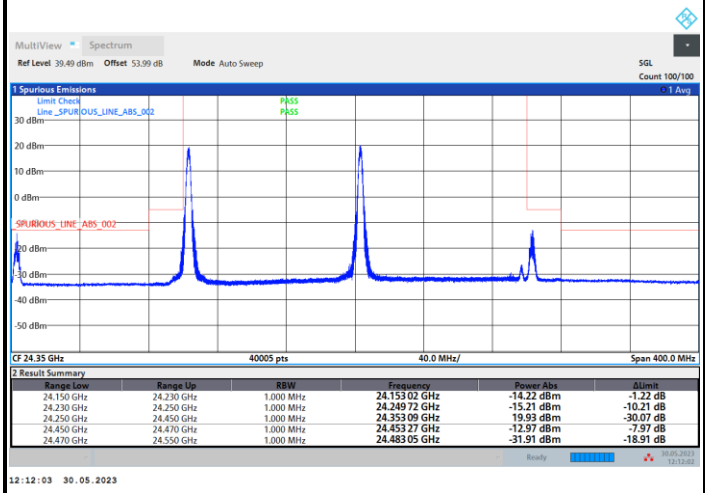
CP-OFDM Module B

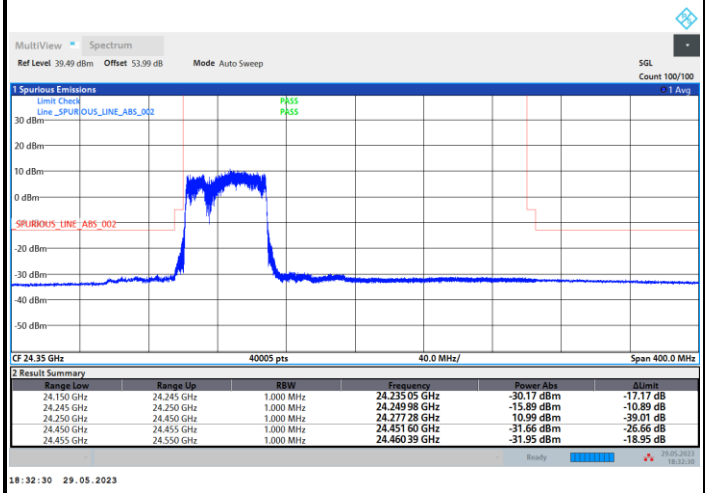
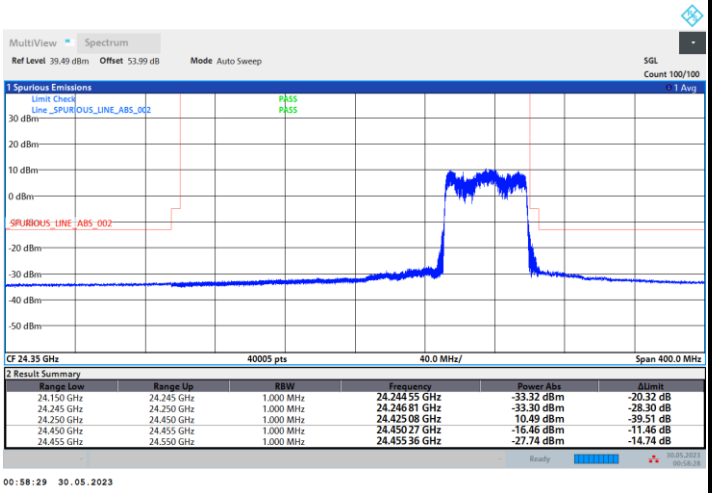
NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

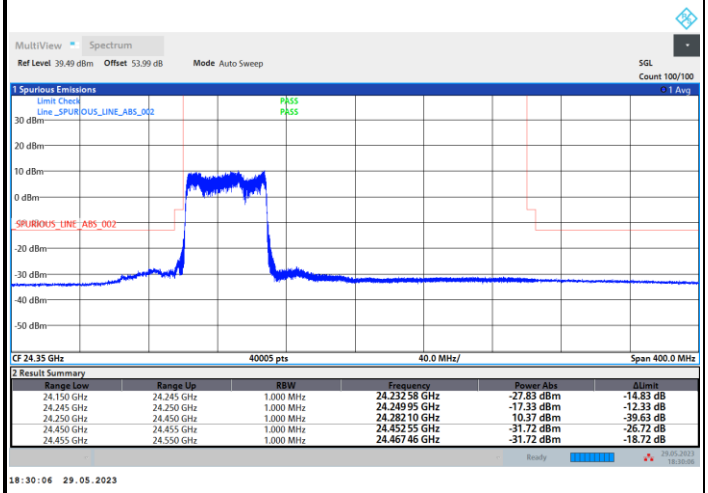
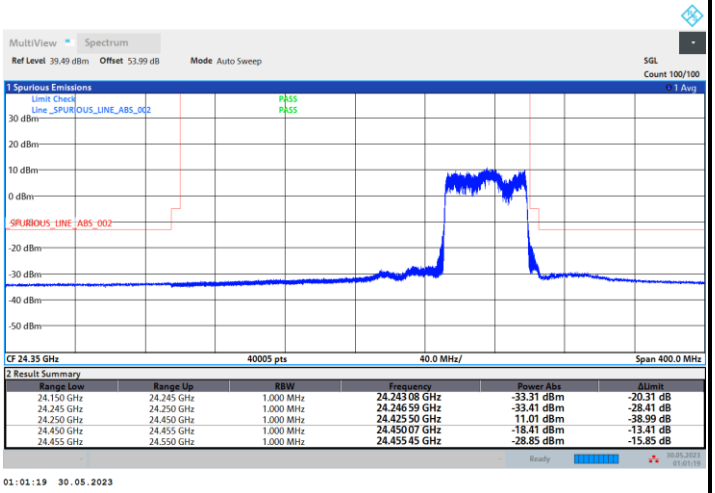
NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

CP-OFDM Module B

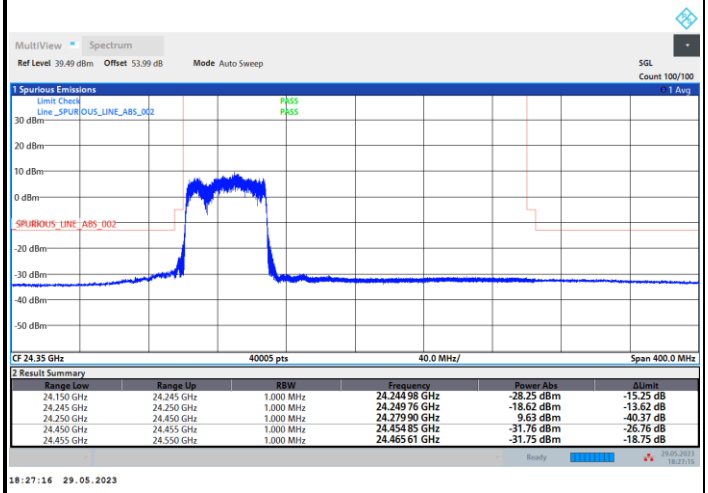
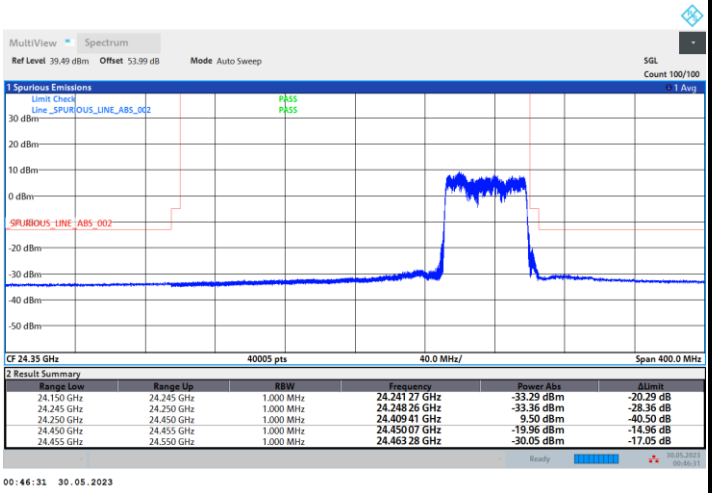
NR Band n258A/ 200MHz / QPSK	
Middle Band Edge / 1 RB	
	**intentionally blank**

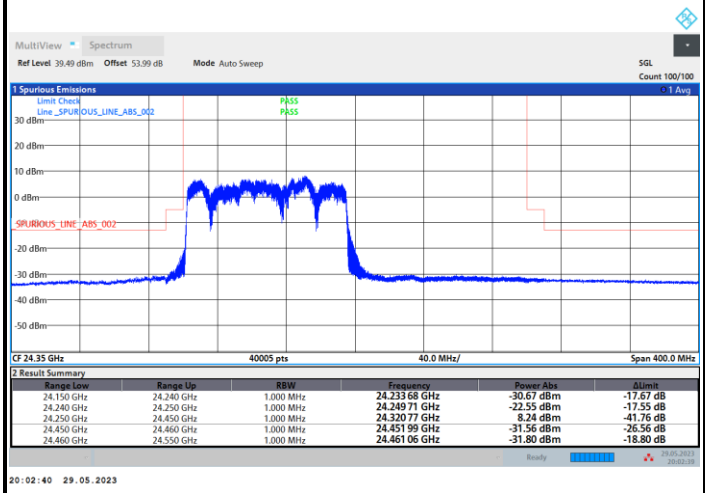
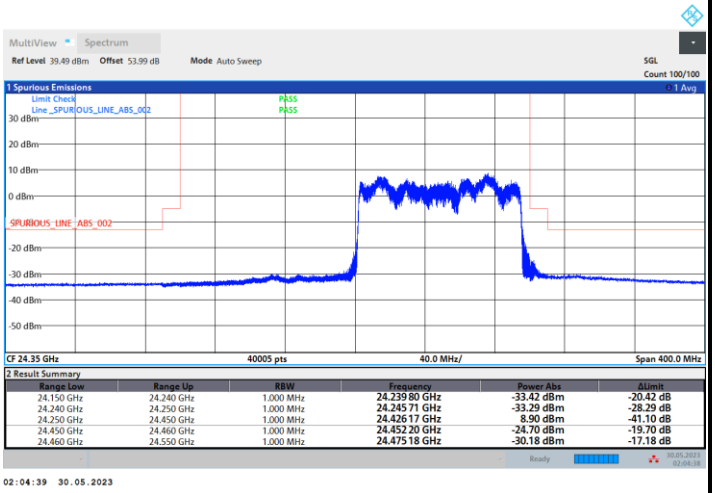
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

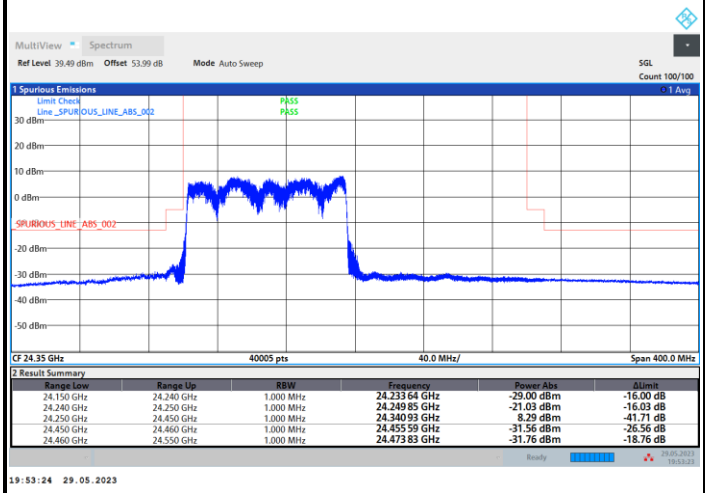
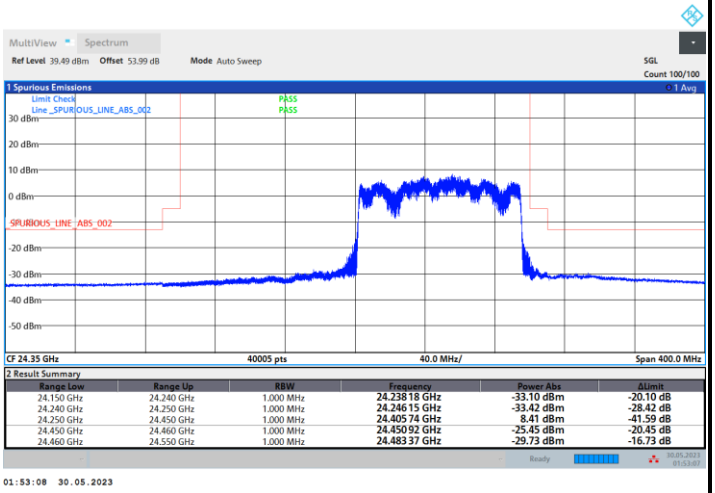
NR Band n258A/ 50MHz / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

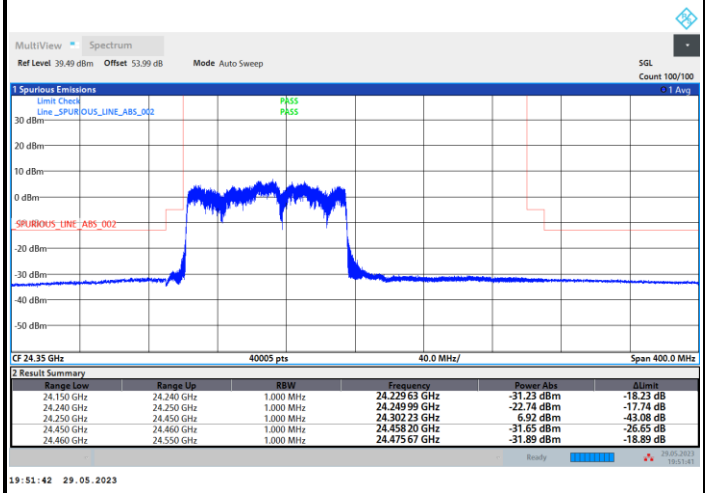
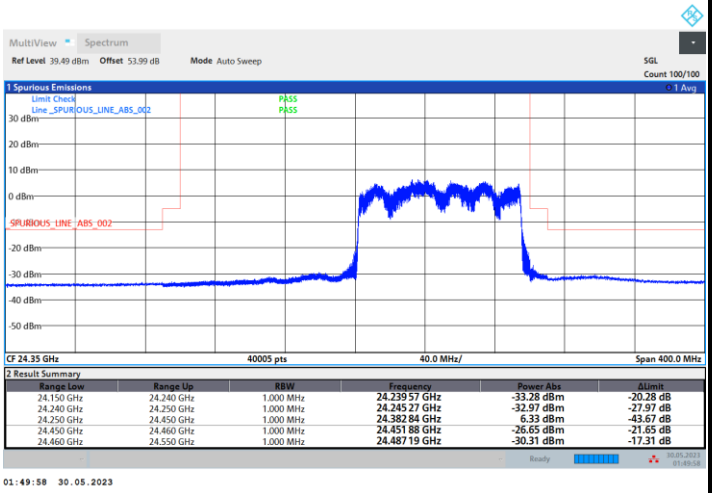
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

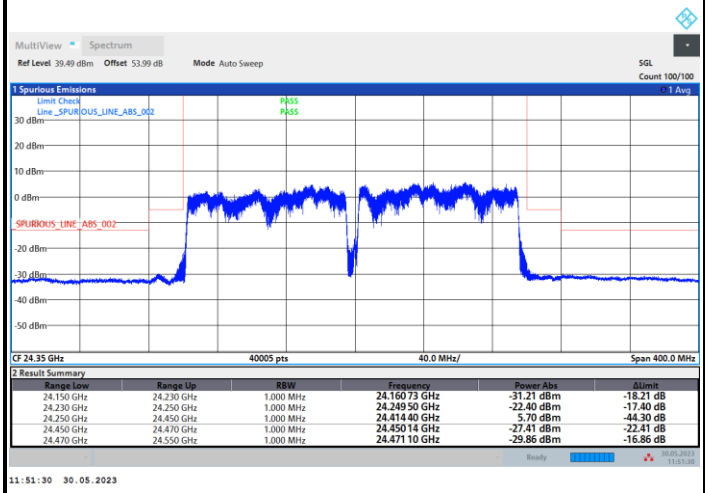
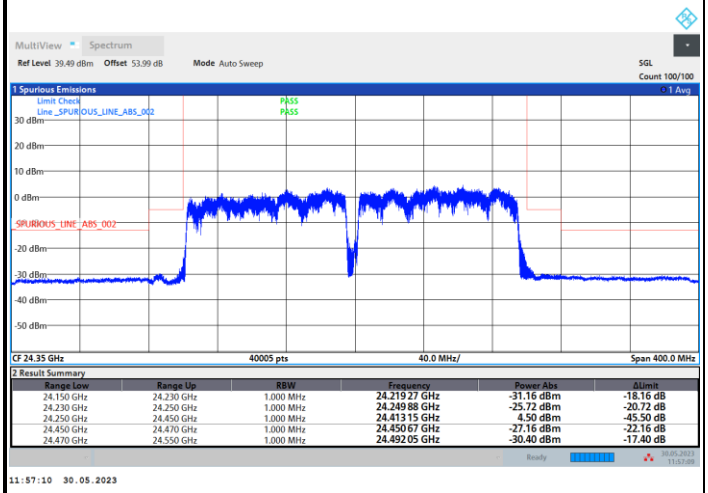
NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

DFT-s-OFDM Module B

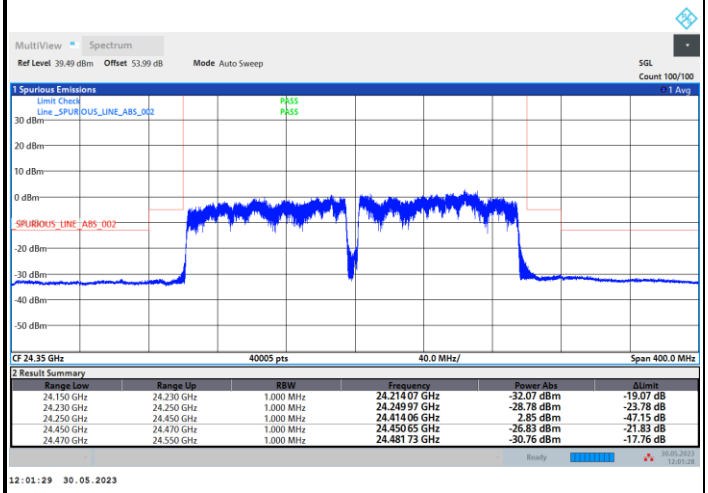
NR Band n258A/ 100MHz / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

NR Band n258A/ 100MHz / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

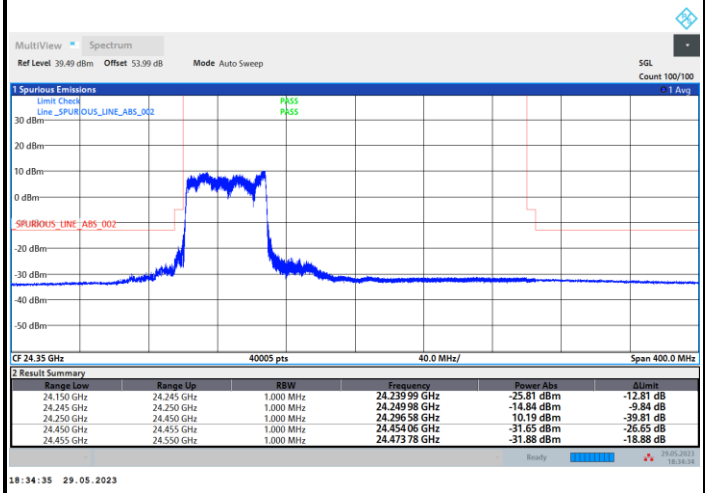
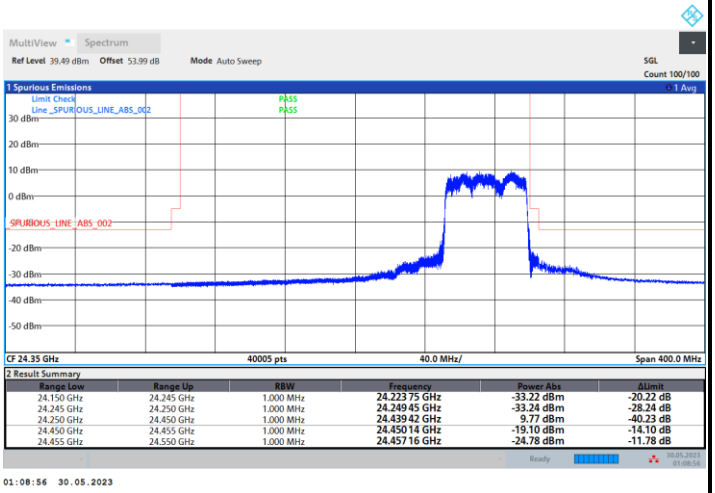
DFT-s-OFDM Module B

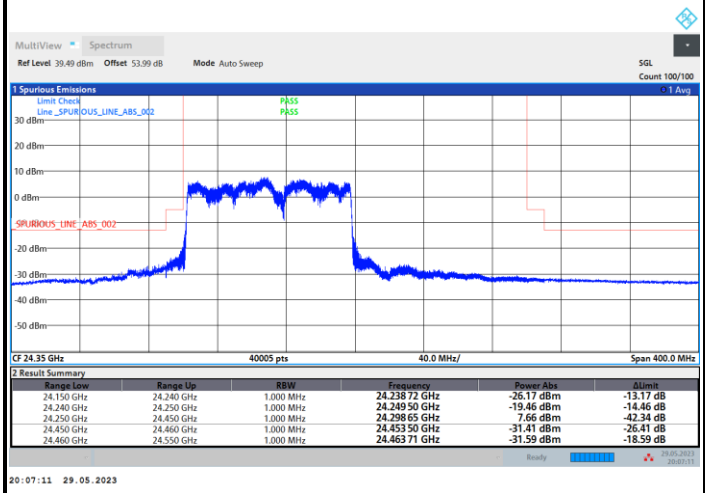
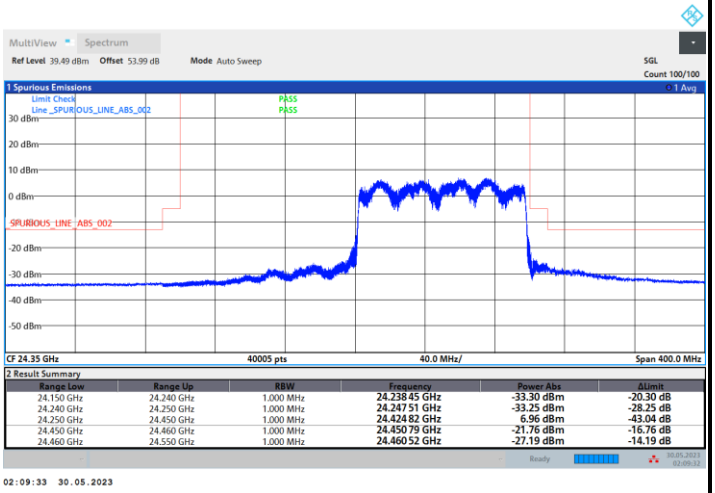
NR Band n258A/ 200MHz / QPSK	
Middle Band Edge / Full RB	
	**intentionally blank**
NR Band n258A/ 200MHz / 16QAM	
Middle Band Edge / Full RB	
	**intentionally blank**

DFT-s-OFDM Module B

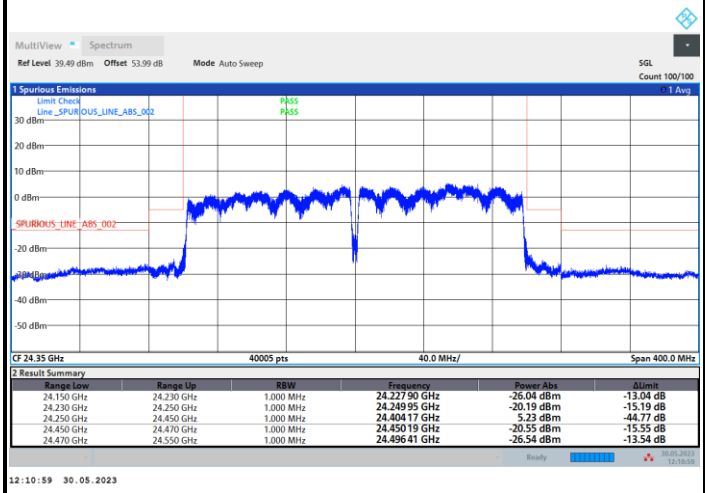
NR Band n258A/ 200MHz / 64QAM	
Middle Band Edge / Full RB	
	**intentionally blank**

CP-OFDM Module B

NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
18:34:35 29.05.2023	01:08:56 30.05.2023

NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
20:07:11 29.05.2023	02:09:33 30.05.2023

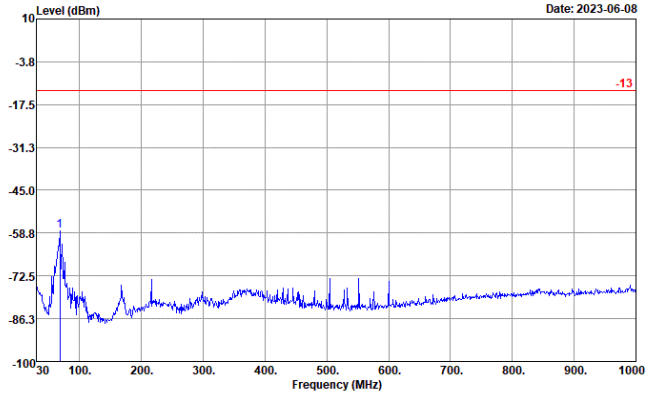
CP-OFDM Module B

NR Band n258A/ 200MHz / QPSK	
Middle Band Edge / Full RB	
	**intentionally blank**

Spurious Emission

NR Band n258A (30MHz-1GHz)

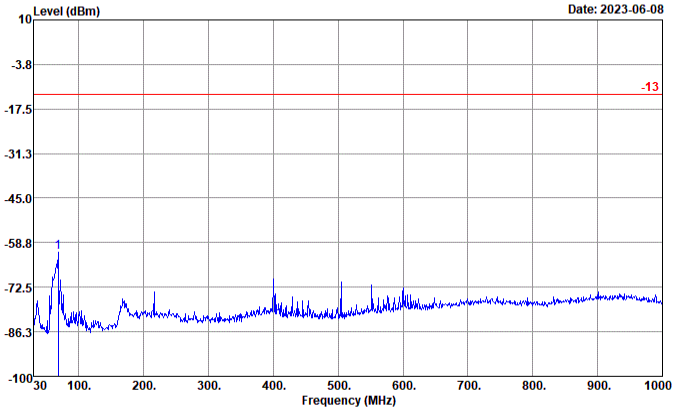
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0206-01
: n258a MB

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	67.83	-58.00	-45.00	-13.00

Vertical

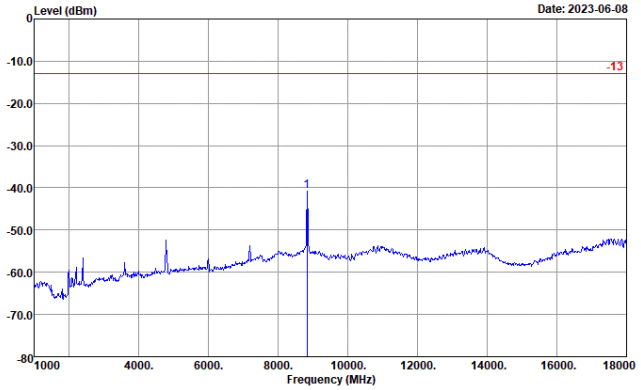


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0206-01
: n258a MB

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	67.83	-61.59	-48.59	-13.00

NR Band n258A (1GHz-18GHz)

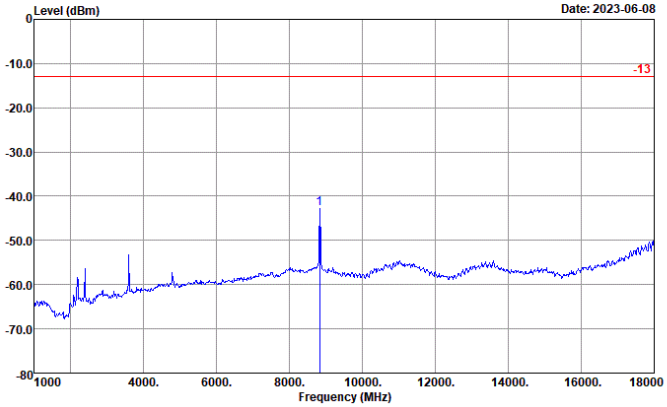
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0206-01
: n258a MB

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	8837.00	-40.85	-27.85	-13.00

Vertical

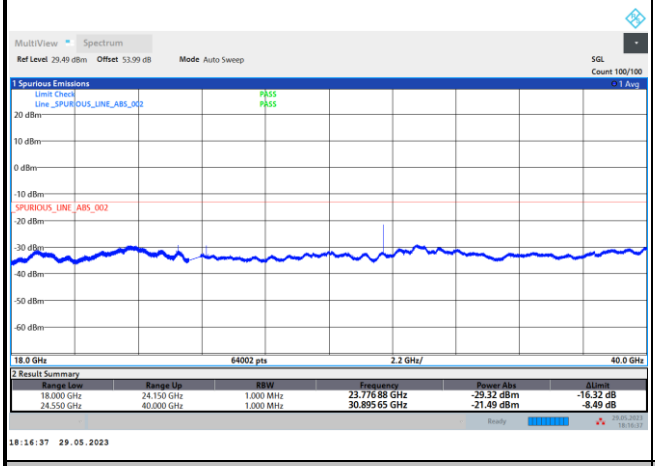
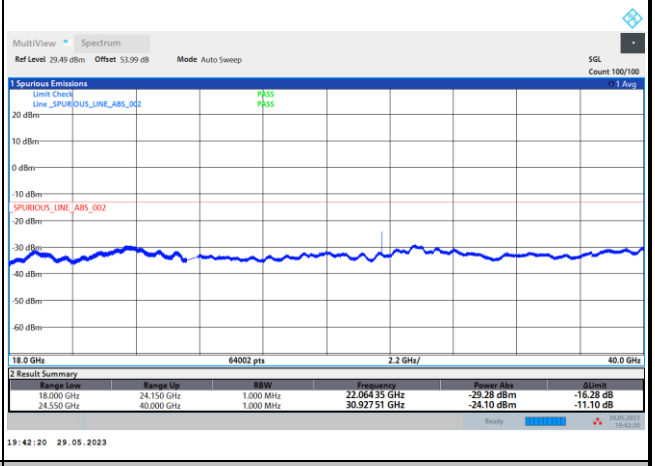
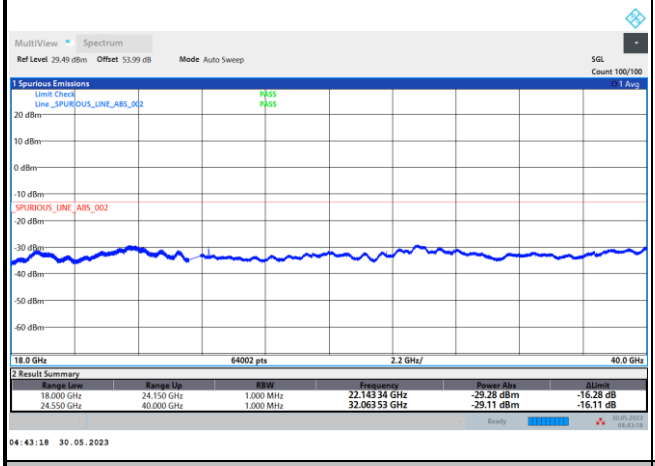
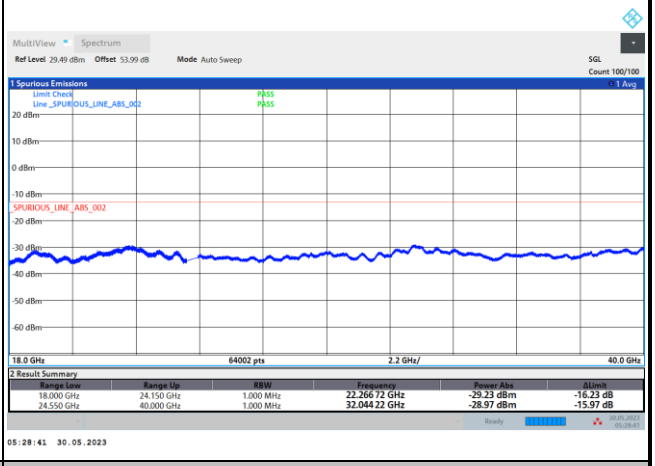
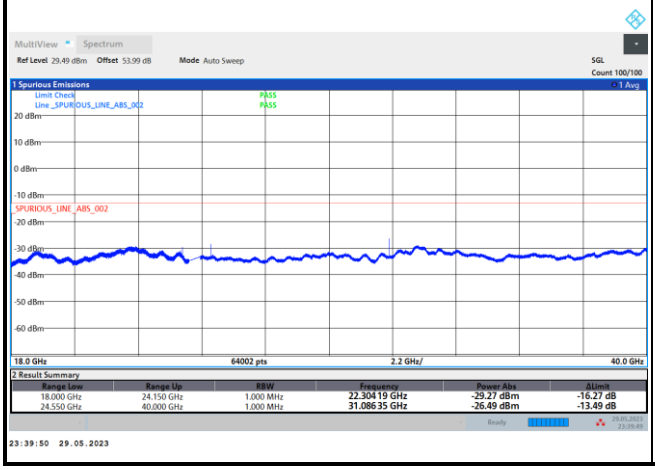
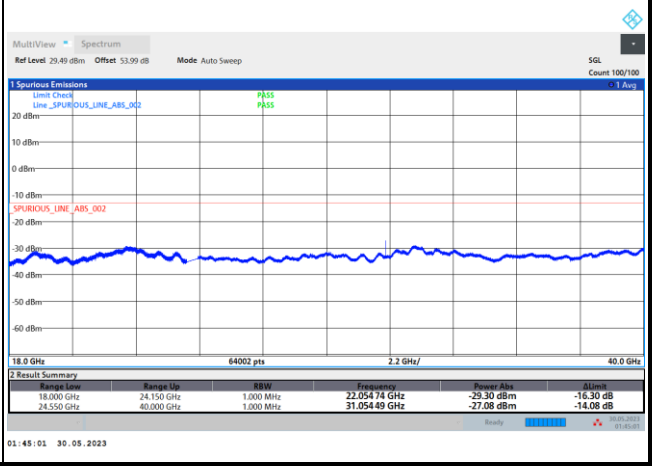


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0206-01
: n258a MB

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	8837.00	-42.72	-29.72	-13.00

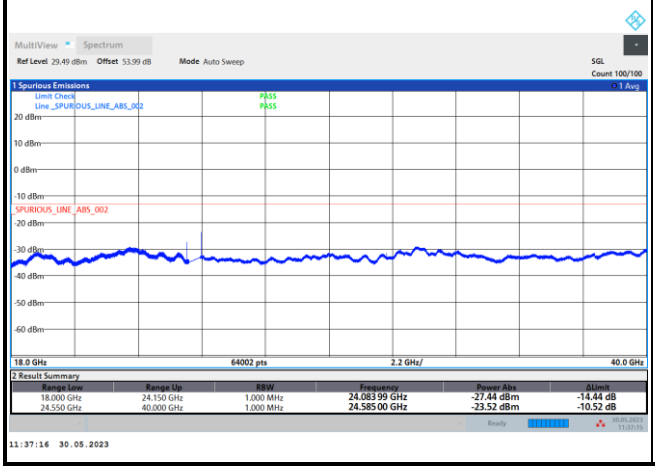
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module B

NR Band n258A QPSK (18-40GHz)	
Lowest Channel / 50MHz	**Lowest Channel / 100MHz**
	
Middle Channel / 50MHz	**Middle Channel / 100MHz**
	
Highest Channel / 50MHz	**Highest Channel / 100MHz**
	

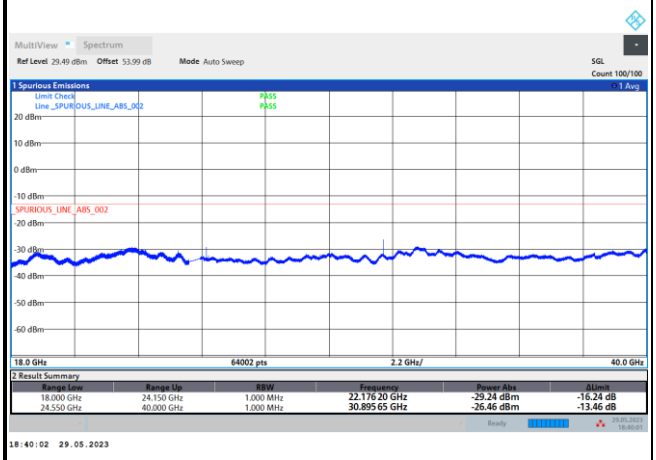
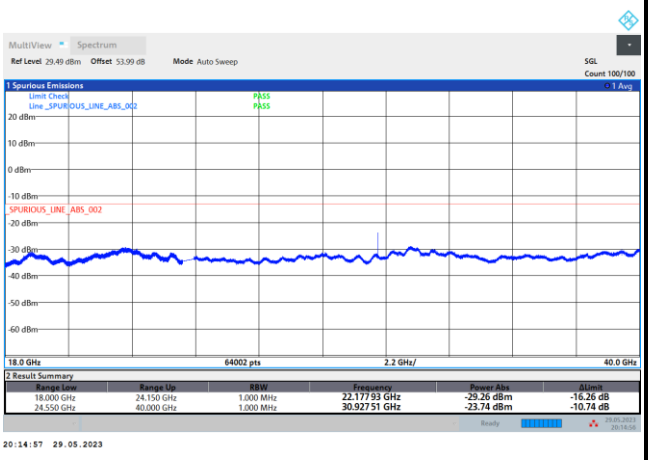
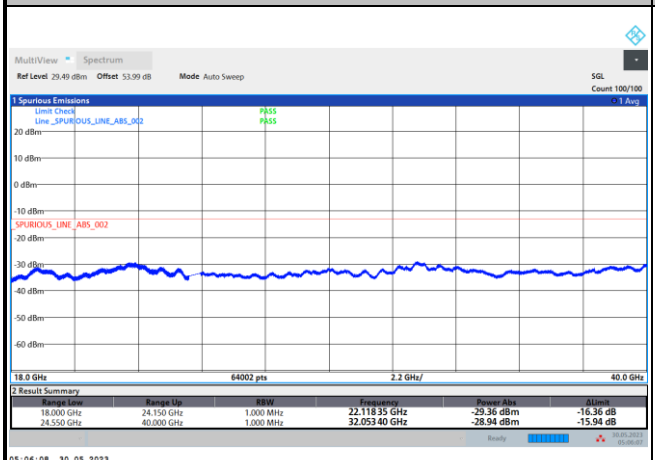
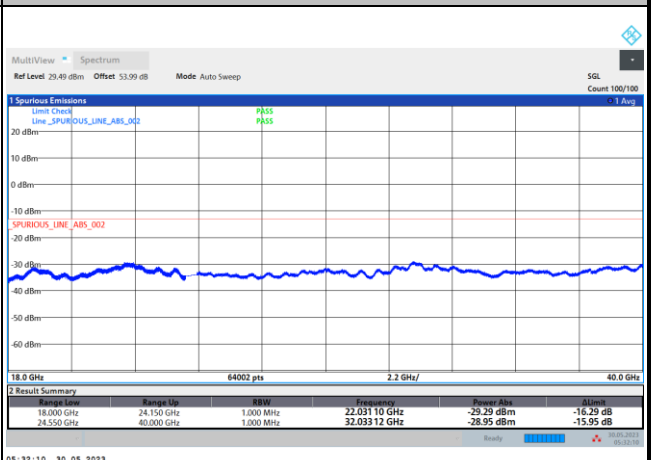
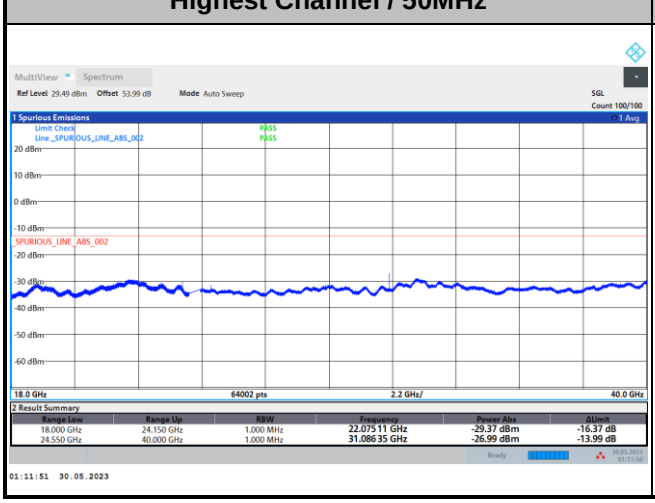
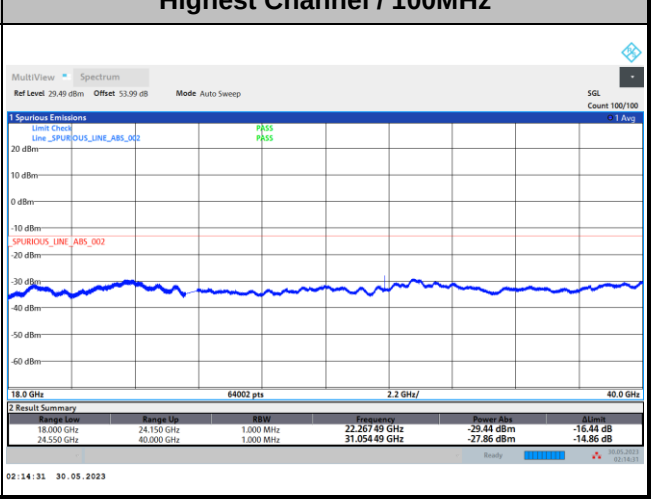
Remark: In band and out of band frequencies are omitted.

DFT-s-OFDM Module B

NR Band n258A QPSK (18-40GHz)	
Middle Channel / 200MHz	
	**intentionally blank**

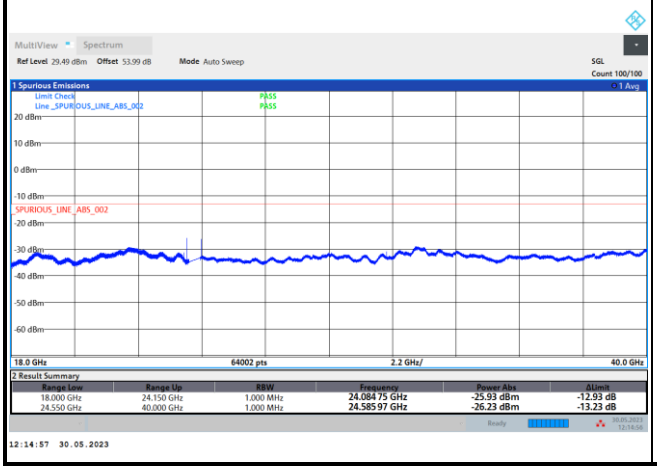
Remark: In band and out of band frequencies are omitted.

CP-OFDM Module B

NR Band n258A QPSK (18-40GHz)	
Lowest Channel / 50MHz	**Lowest Channel / 100MHz**
	
Middle Channel / 50MHz	**Middle Channel / 100MHz**
	
Highest Channel / 50MHz	**Highest Channel / 100MHz**
	

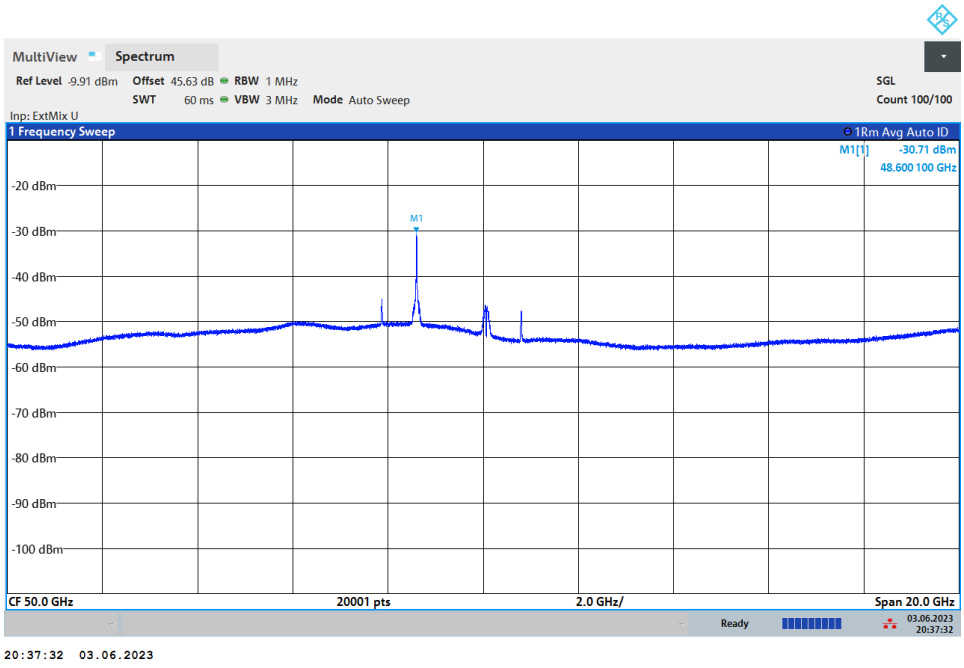
Remark: In band and out of band frequencies are omitted.

CP-OFDM Module B

NR Band n258A QPSK (18-40GHz)	
Middle Channel / 200MHz	
	**intentionally blank**

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

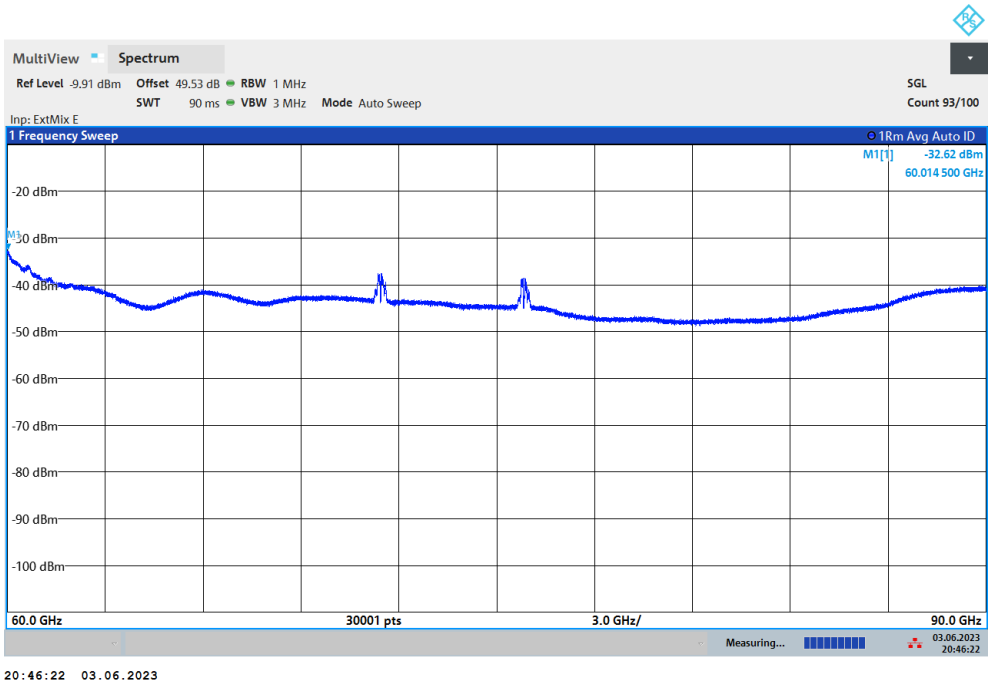
NR Band n258A
(40GHz-60GHz)



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

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

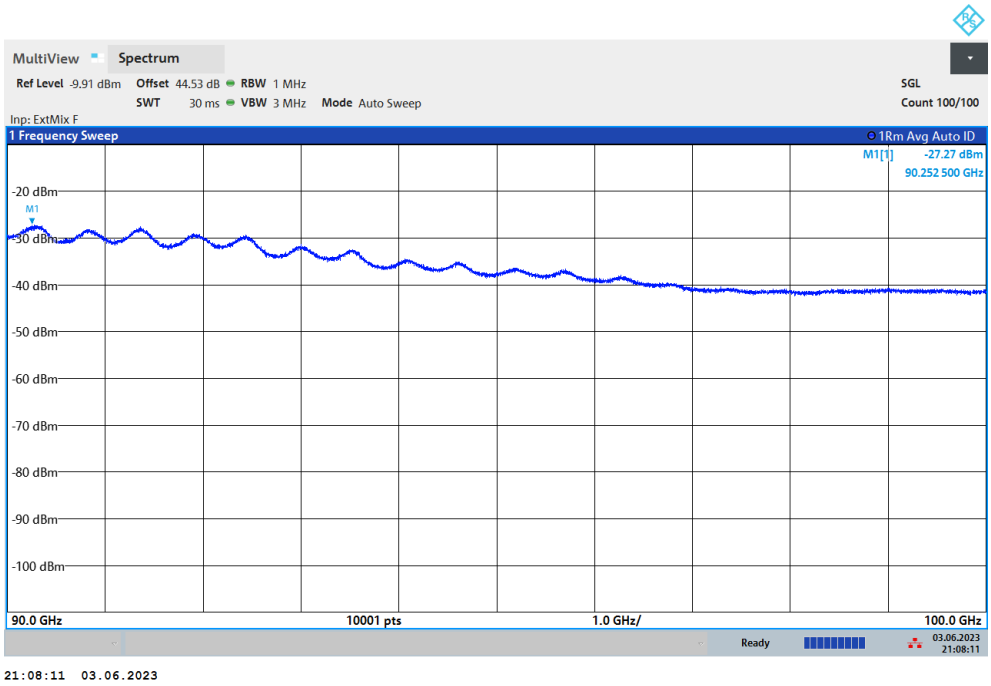
NR Band n258A
(60GHz-90GHz)



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

= 46.9 + 0.43 + 107 + 20log(1) – 104.8 = 49.53 (dB)

NR Band n258A
(90GHz-100GHz)



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

= 47.92 + 0.43 + 107 + 20log(0.5) – 104.8 = 44.53 (dB)

Frequency Stability

Test Conditions		NR Band n258A / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.350004	-4.000	0.143	Pass
40	Normal Voltage	24.349995	5.000	0.179	
30	Normal Voltage	24.350016	-16.000	0.573	
20(Ref.)	Normal Voltage	24.35	0.000	0.000	
10	Normal Voltage	24.3500669	-66.900	2.396	
0	Normal Voltage	24.3501219	-121.900	4.365	
-10	Normal Voltage	24.3501409	-140.900	5.046	
-20	Normal Voltage	24.3501399	-139.900	5.010	
-30	Normal Voltage	24.3501109	-110.900	3.971	
20	Maximum Voltage	24.350007	-7.000	0.251	
20	Normal Voltage	24.350039	-39.000	1.397	
20	Battery End Point	24.350023	-23.000	0.824	

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 n258b Module A AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n258b : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.84	45.91	45.98	91.41	91.49	91.41	190.18	190.54	190.52
Middle CH	45.98	45.97	45.96	91.44	91.43	91.39	190.38	190.39	190.45
Highest CH	45.83	45.92	45.83	91.25	91.29	91.10	190.60	190.42	190.56

Mode	DFT-s-OFDM Module A NR Band n258b : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	289.61	289.53	289.52	388.90	388.60	388.66
Middle CH	289.15	289.14	289.48	388.36	388.14	388.32
Highest CH	289.46	289.59	289.09	388.29	388.45	388.20

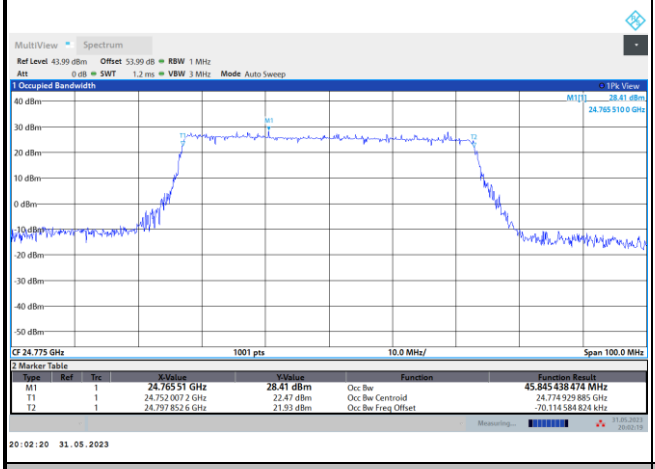
Mode	CP-OFDM Module A NR Band n258b : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.08	94.20	193.33
Middle CH	46.01	94.23	193.31
Highest CH	45.78	94.13	193.33

Mode	CP-OFDM Module A NR Band n258b : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	292.39	392.29
Middle CH	292.44	391.20
Highest CH	292.75	393.09

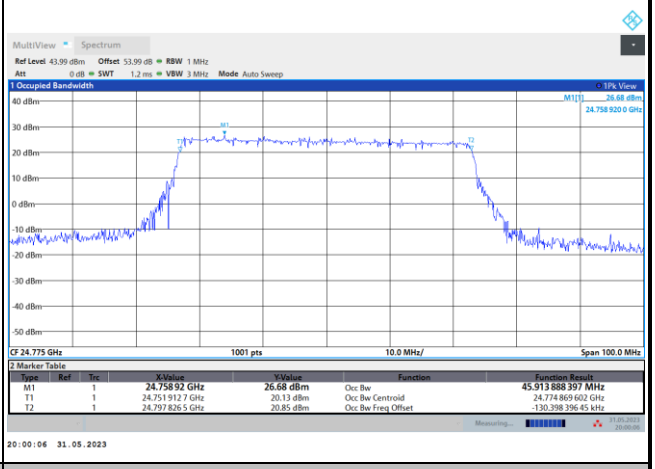
DFT-s-OFDM Module A

NR Band n258b

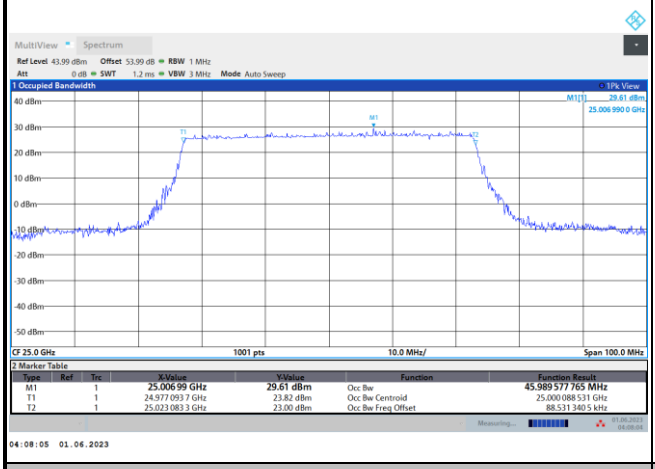
Lowest Channel / 50MHz / QPSK



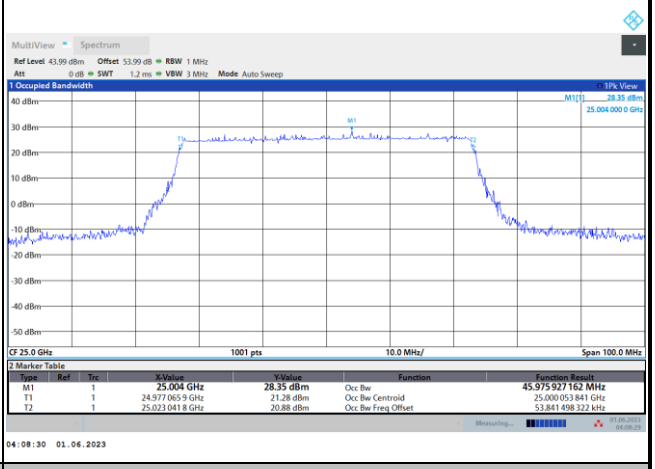
Lowest Channel / 50MHz / 16QAM



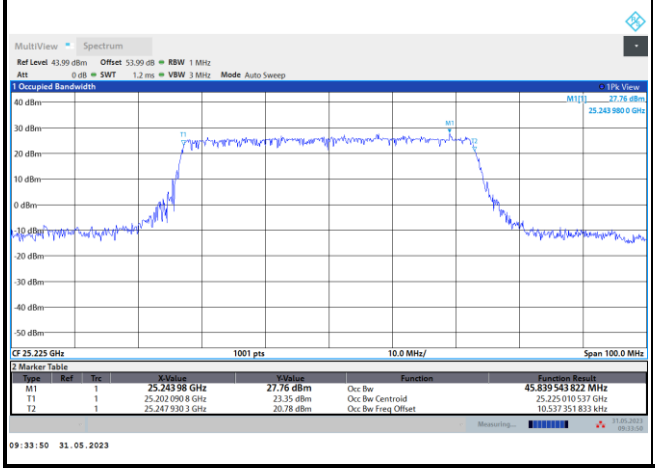
Middle Channel / 50MHz / QPSK



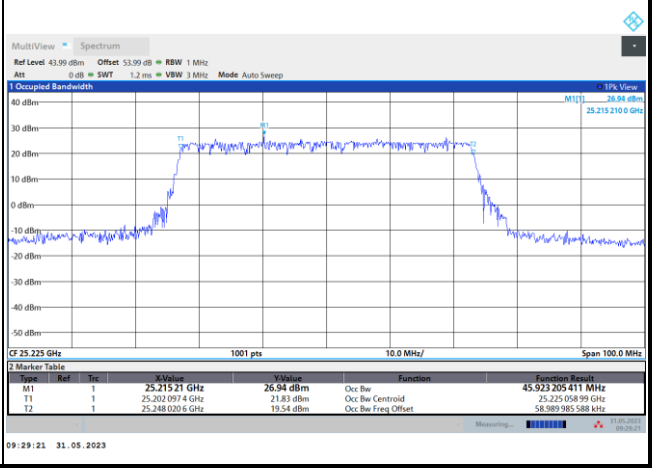
Middle Channel / 50MHz / 16QAM



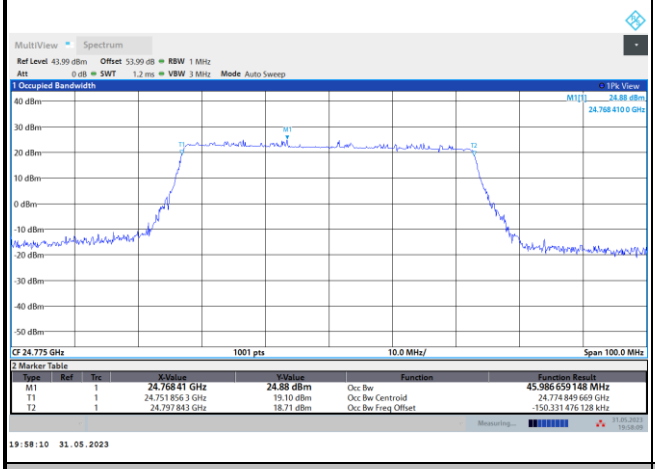
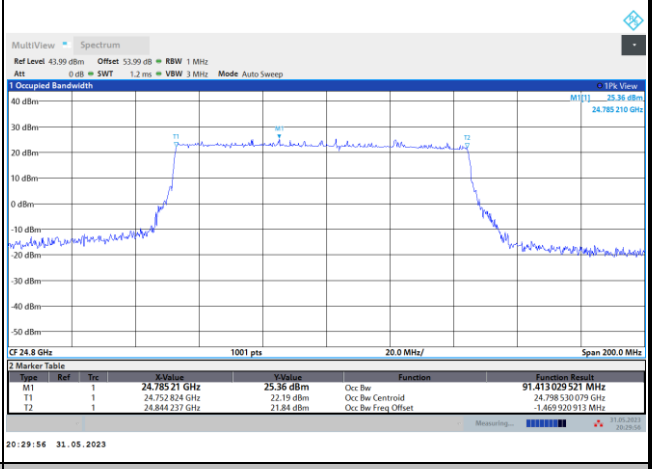
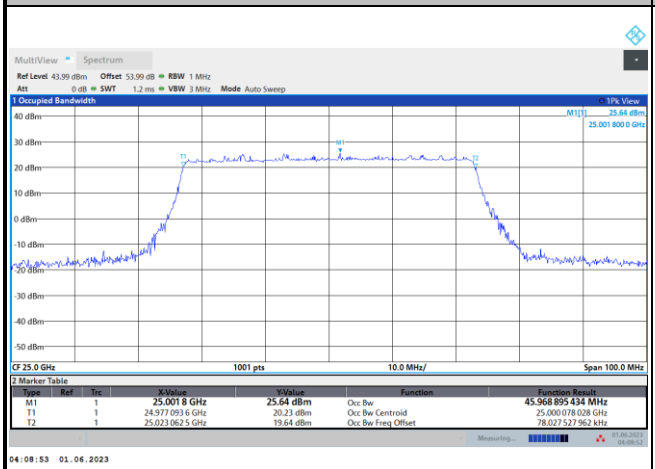
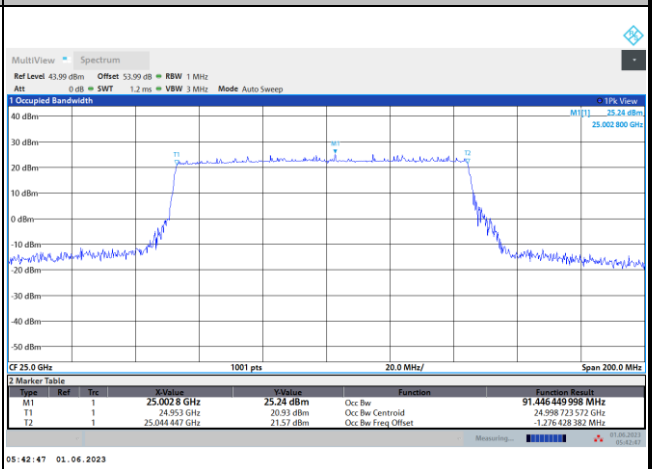
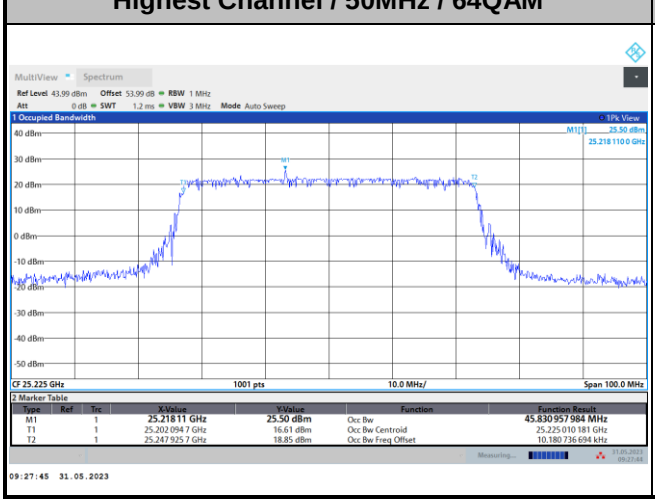
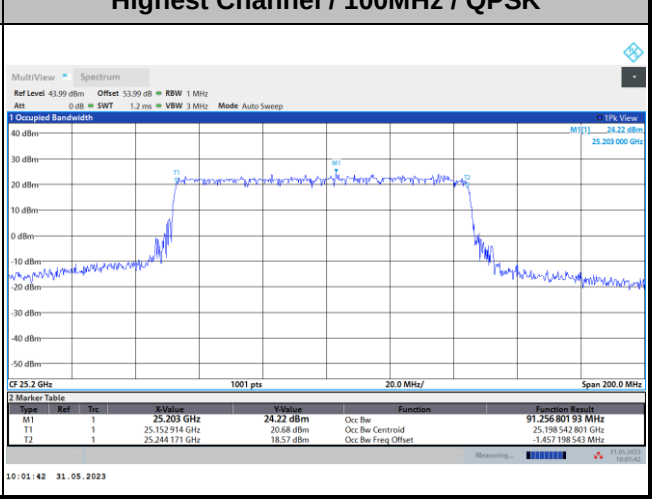
Highest Channel / 50MHz / QPSK



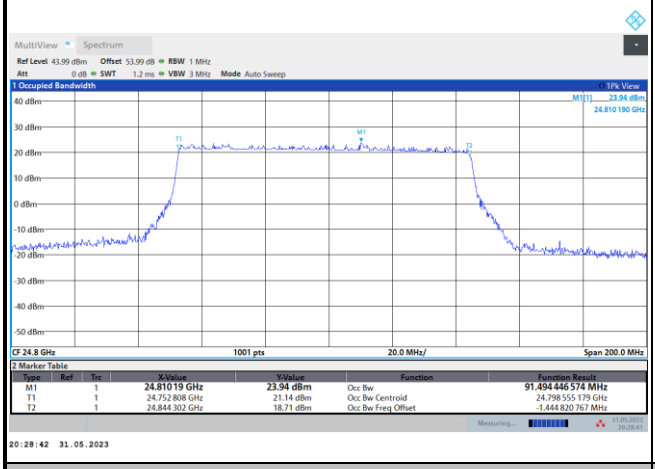
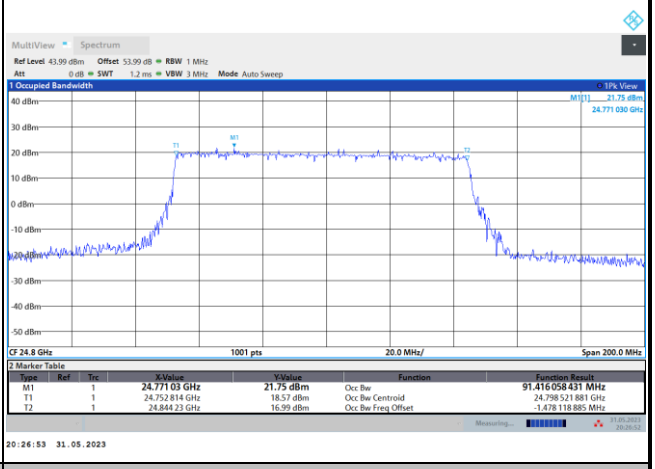
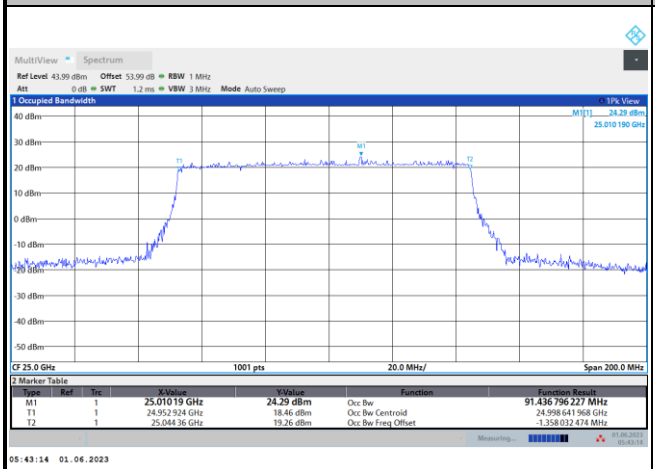
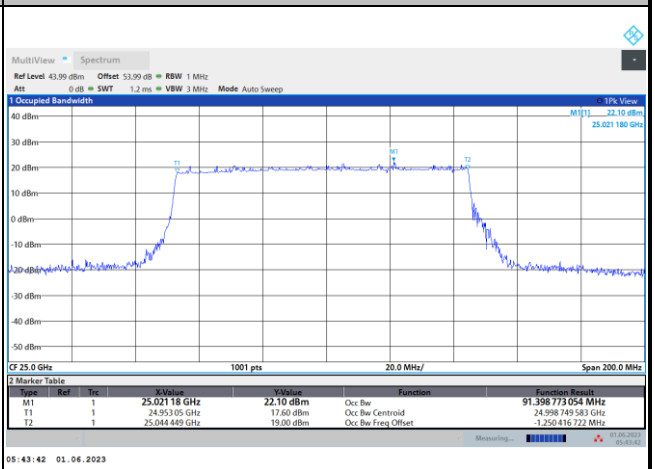
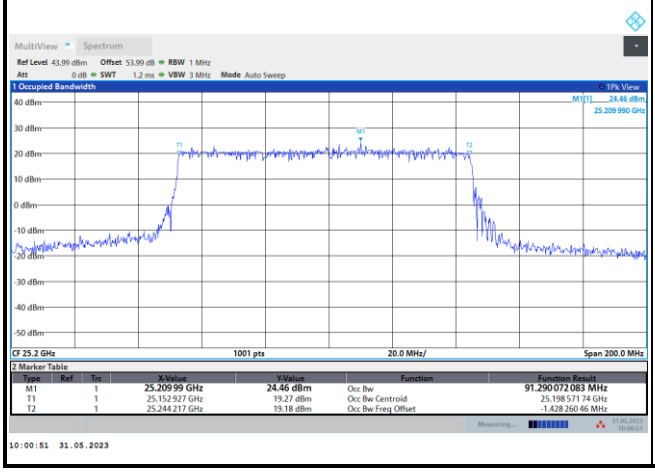
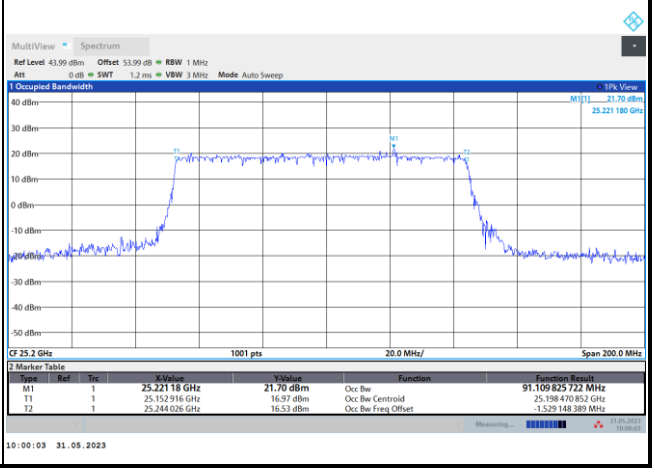
Highest Channel / 50MHz / 16QAM



DFT-s-OFDM Module A

NR Band n258b	
Lowest Channel / 50MHz / 64QAM	**Lowest Channel / 100MHz / QPSK**
	
Middle Channel / 50MHz / 64QAM	**Middle Channel / 100MHz / QPSK**
	
Highest Channel / 50MHz / 64QAM	**Highest Channel / 100MHz / QPSK**
	

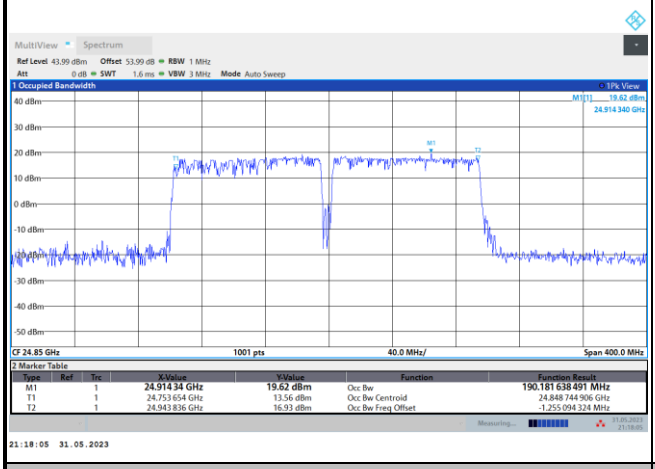
DFT-s-OFDM Module A

NR Band n258b	
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

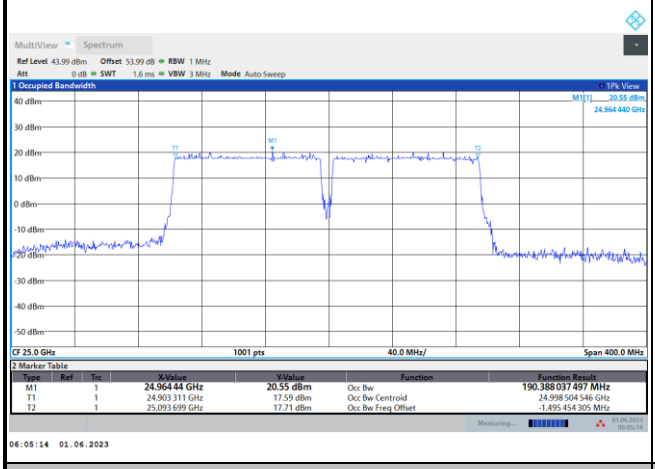
NR Band n258b

Lowest Channel / 200MHz / QPSK

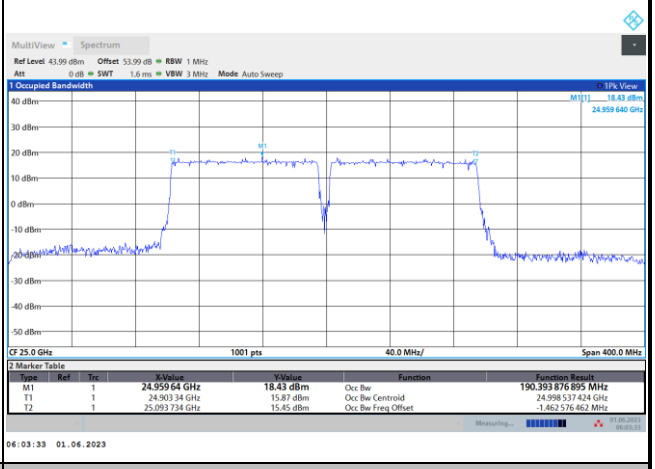


Lowest Channel / 200MHz / 16QAM

Middle Channel / 200MHz / QPSK

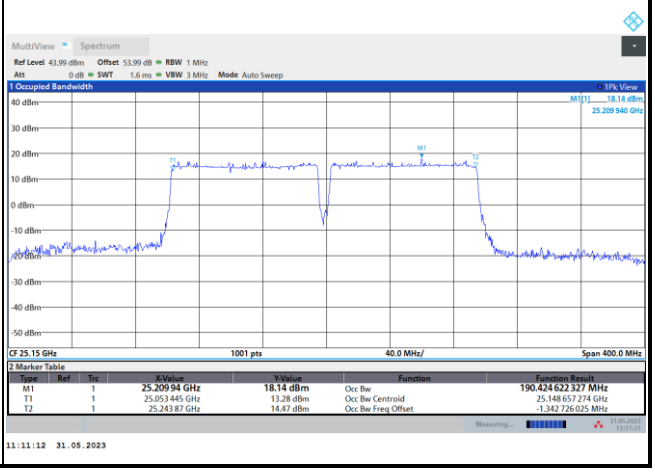


Middle Channel / 200MHz / 16QAM

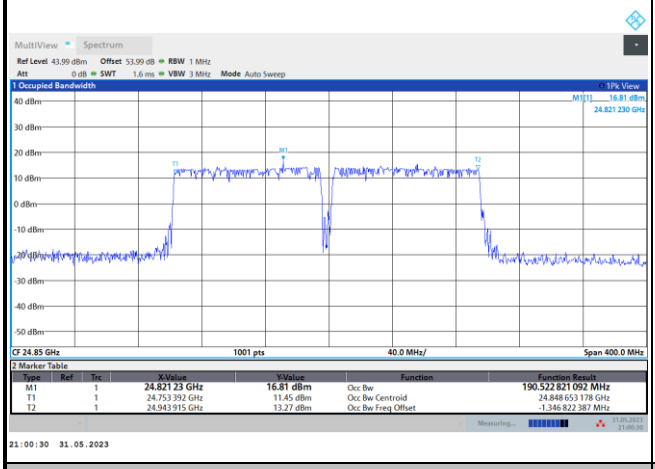
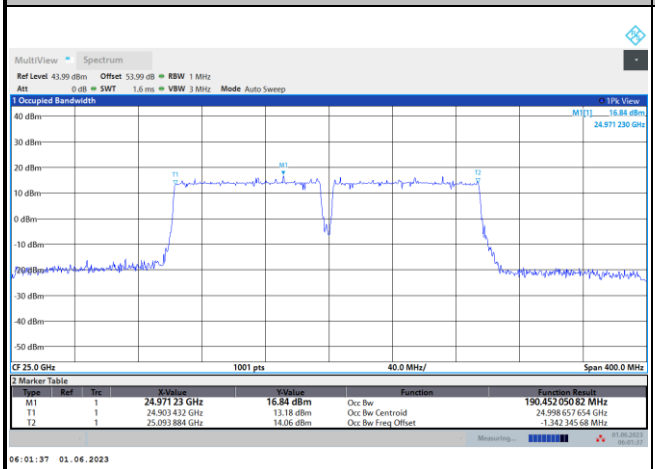
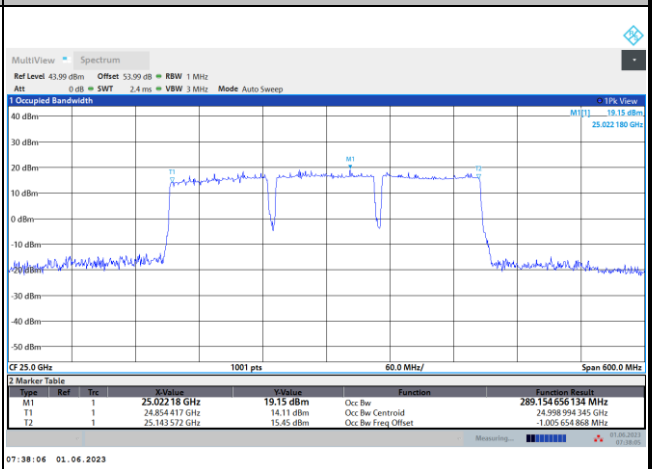
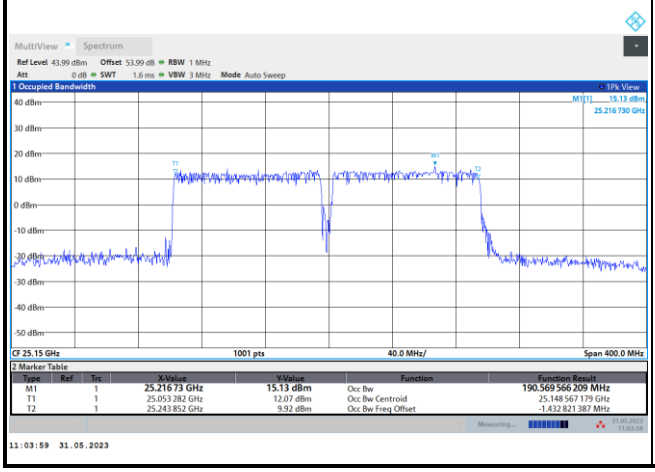


Highest Channel / 200MHz / QPSK

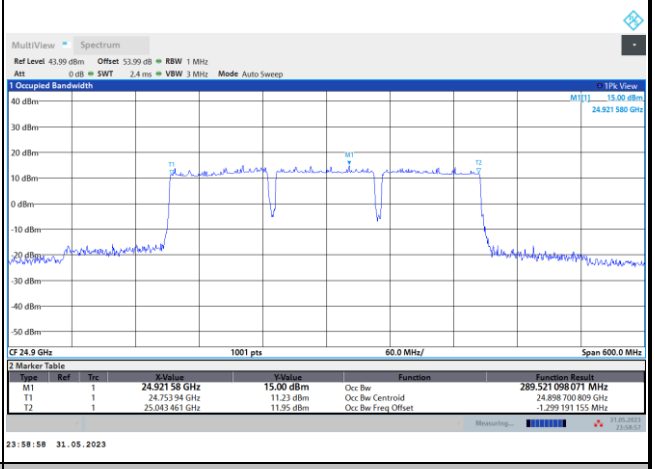
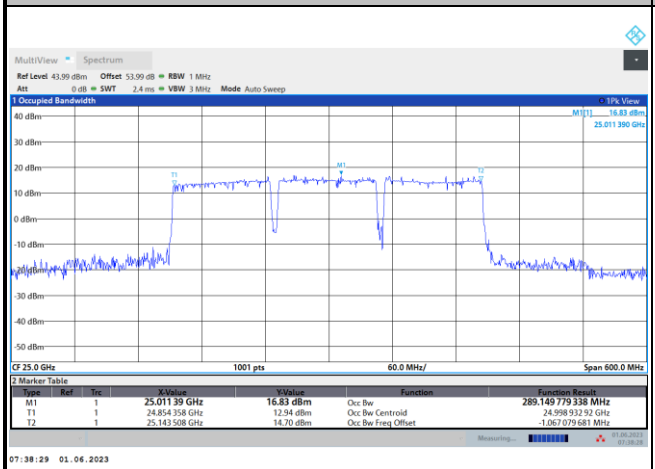
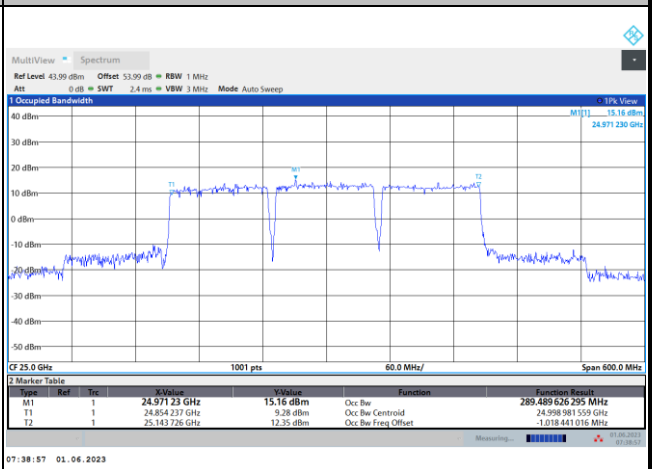
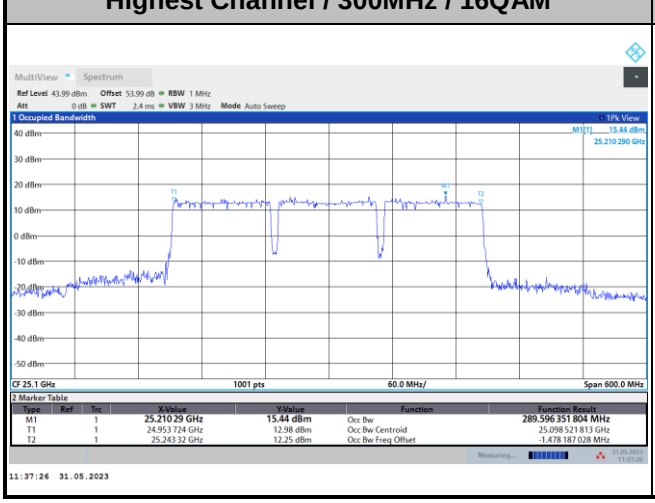
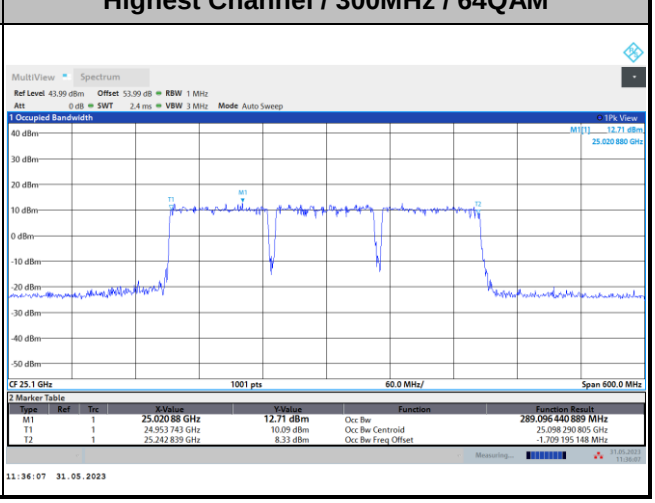
Highest Channel / 200MHz / 16QAM



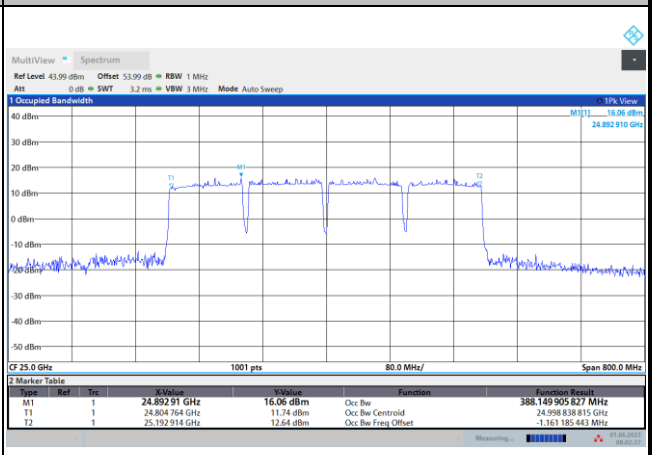
DFT-s-OFDM Module A

NR Band n258b	
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 n258b	
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 n258b	
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 n258b	
Lowest Channel / 400MHz / 64QAM	
	**intentionally blank**
Middle Channel / 400MHz / 64QAM	
	**intentionally blank**
Highest Channel / 400MHz / 64QAM	
	**intentionally blank**