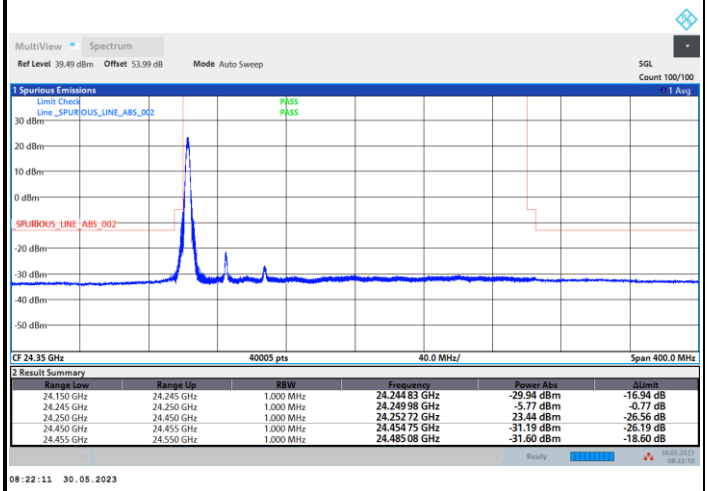
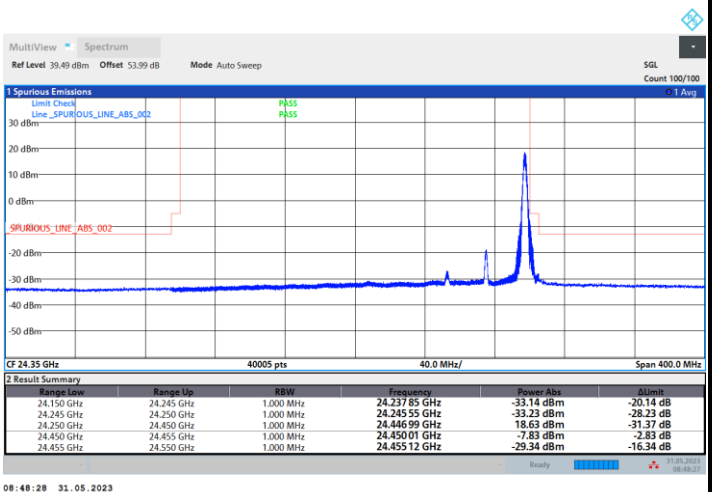
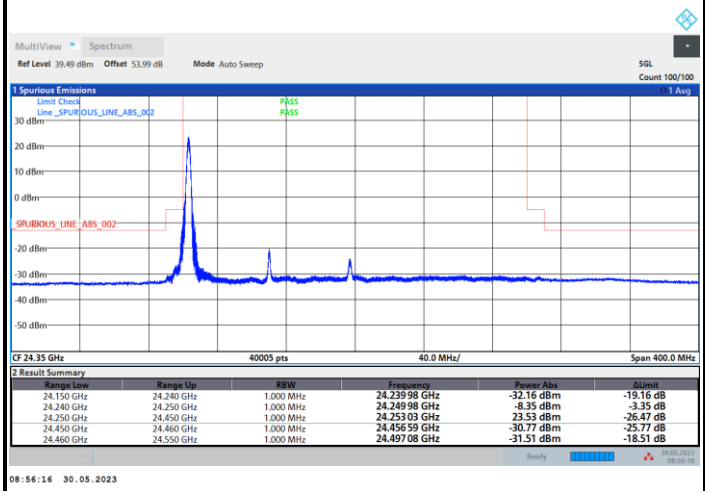
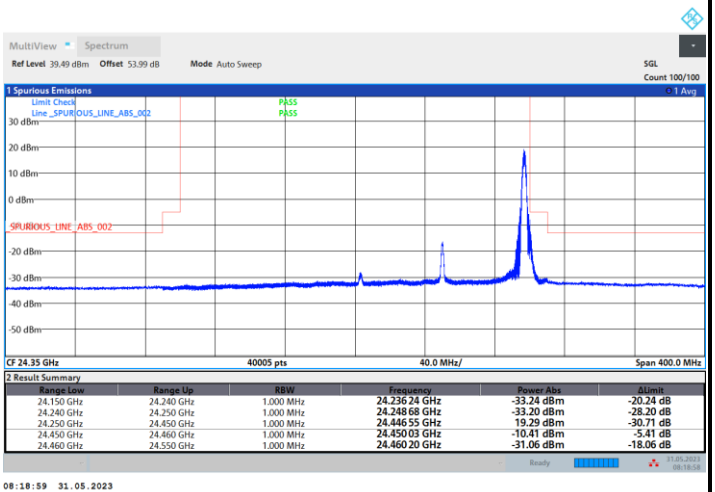
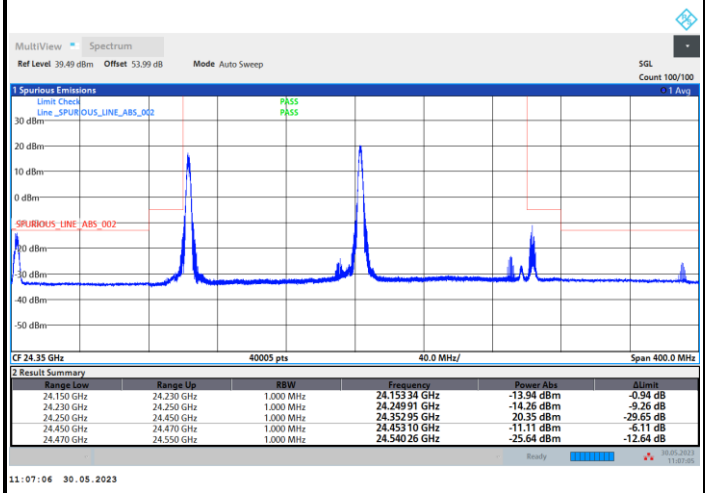
CP-OFDM Module A

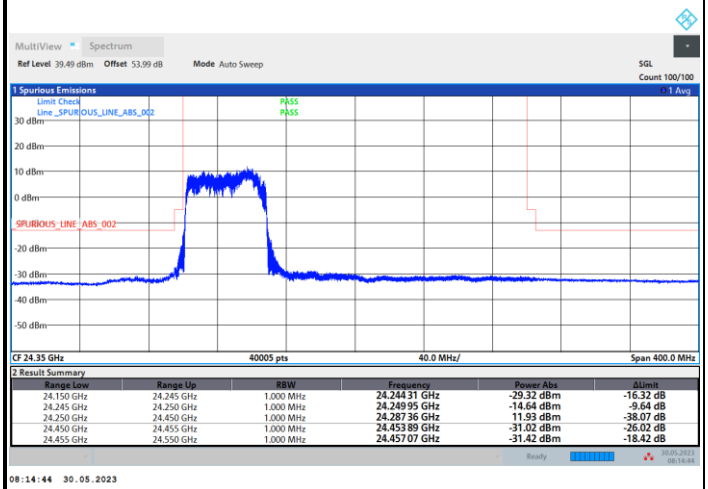
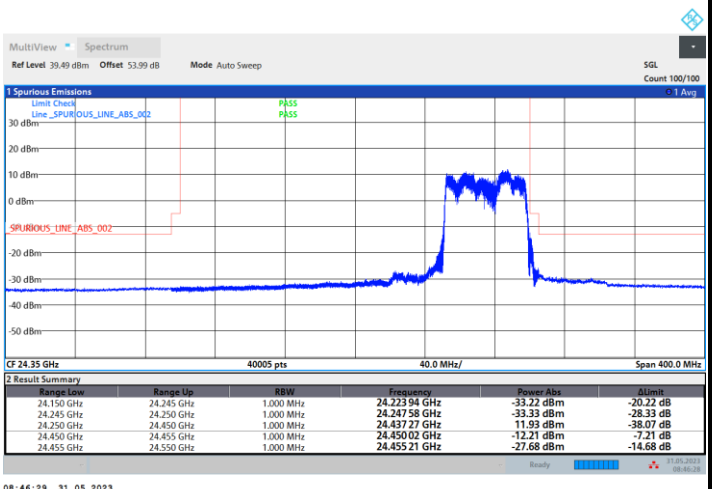
NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

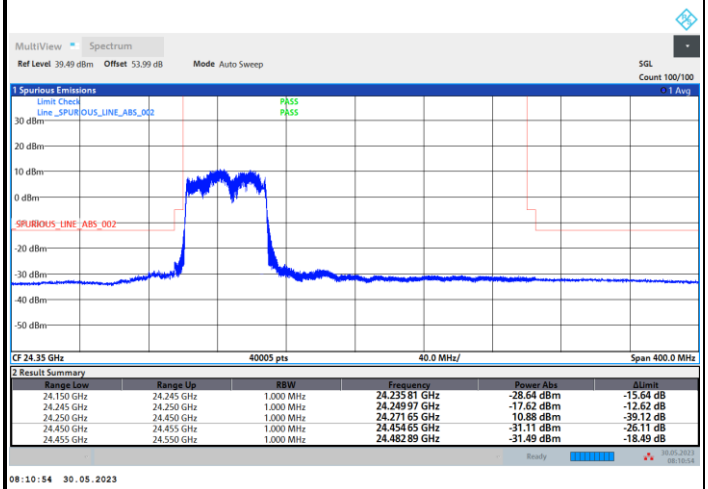
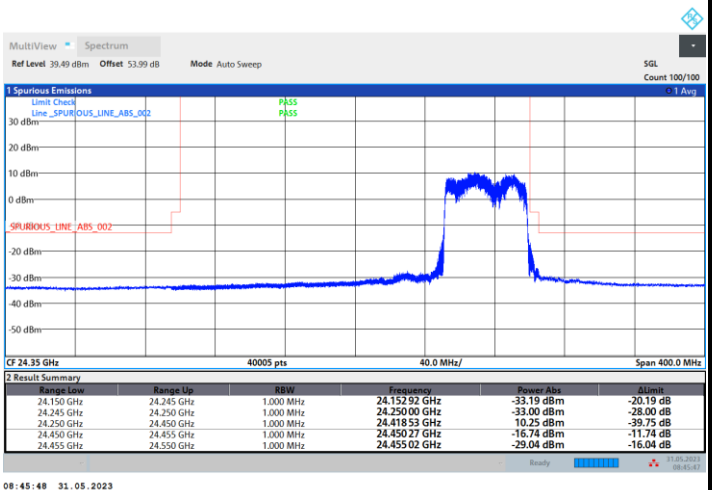
NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

CP-OFDM Module A

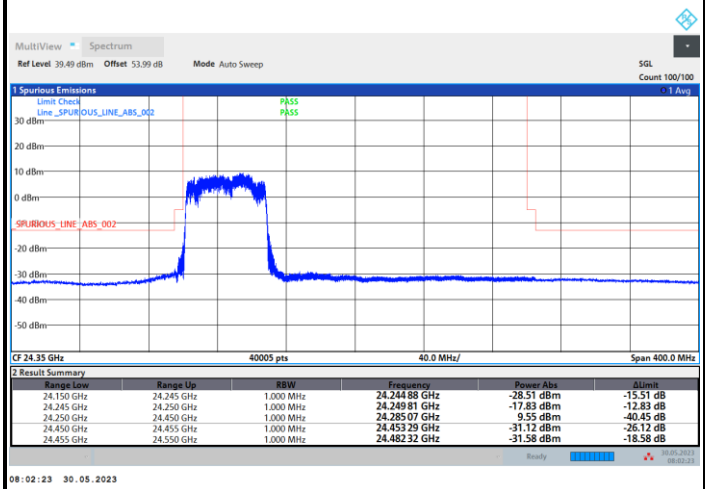
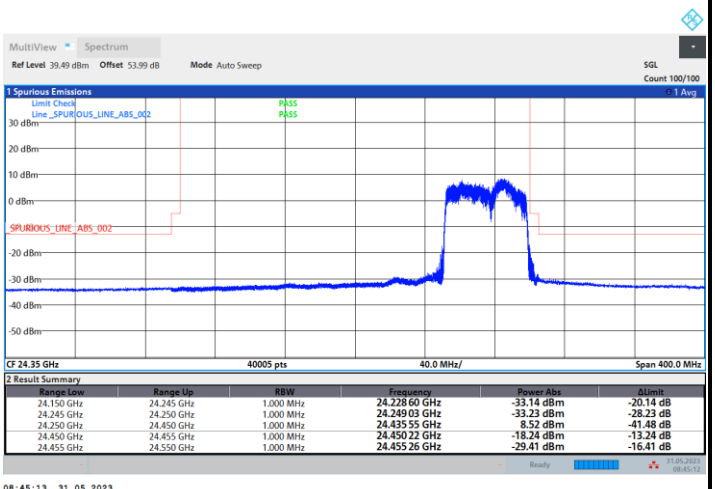
NR Band n258A/ 200MHz / QPSK	
Middle Band Edge / 1 RB	
	**intentionally blank**

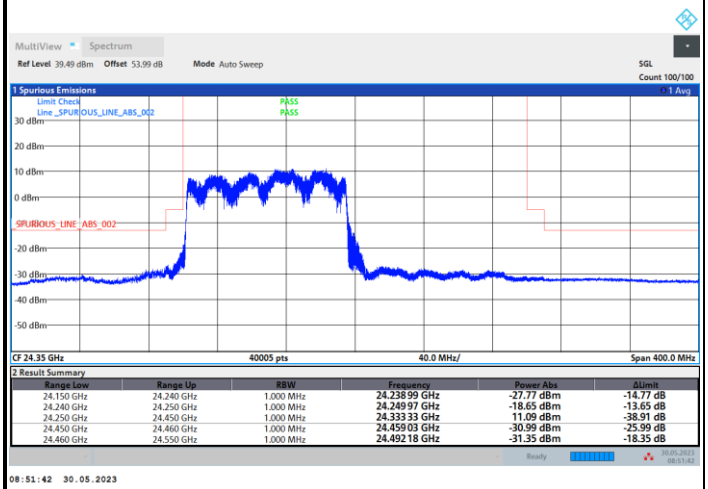
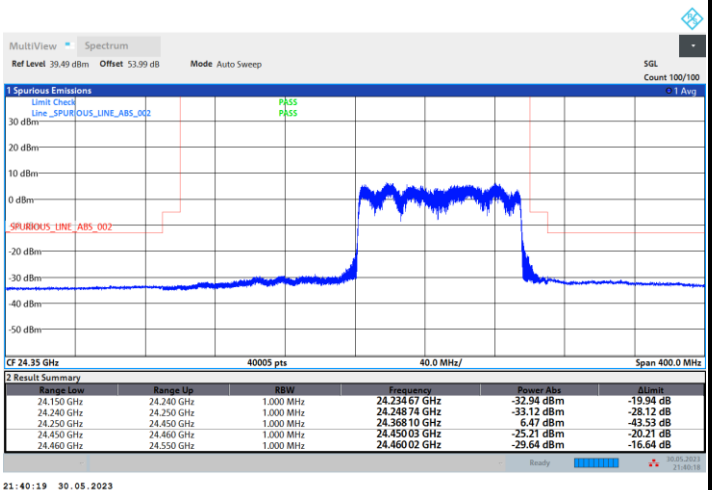
DFT-s-OFDM Module A

NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:14:44 30.05.2023	08:46:29 31.05.2023

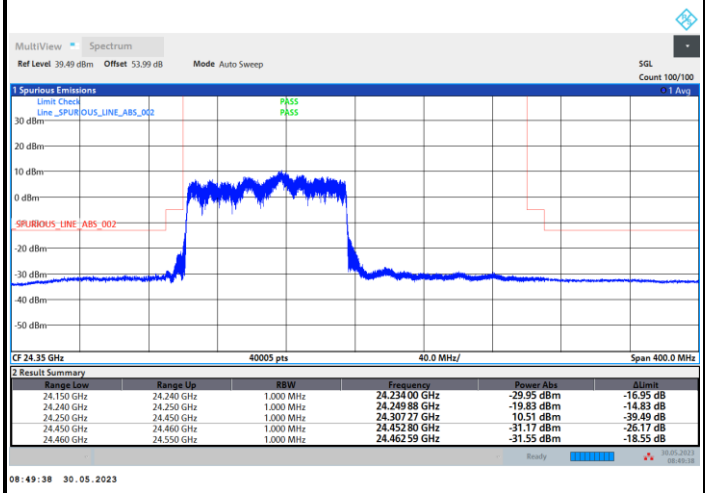
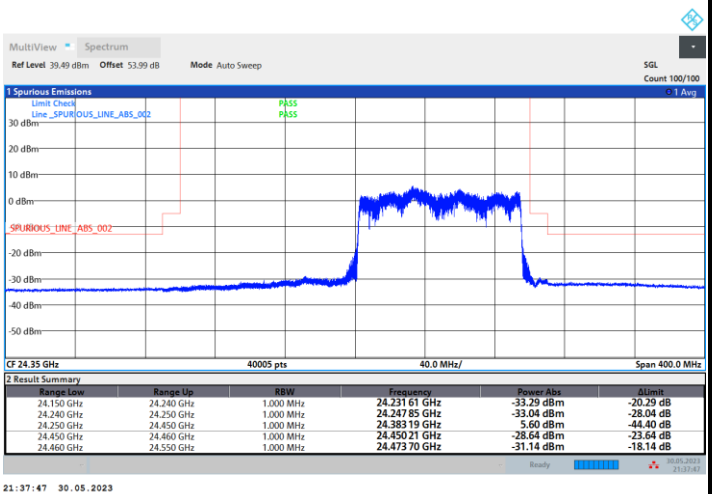
NR Band n258A/ 50MHz / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:10:54 30.05.2023	08:45:48 31.05.2023

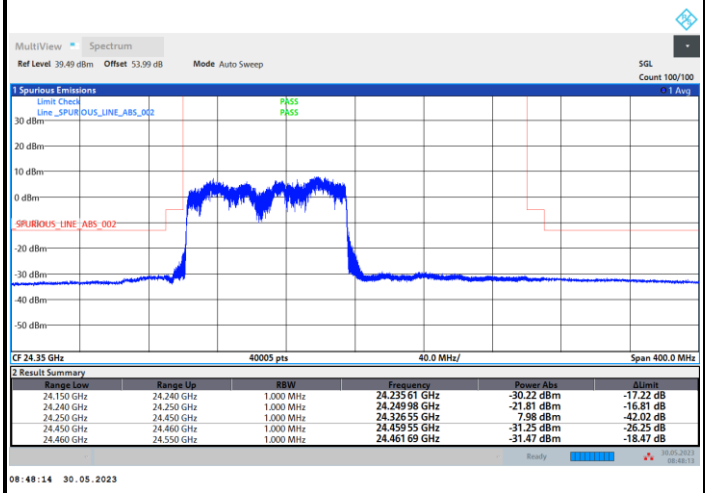
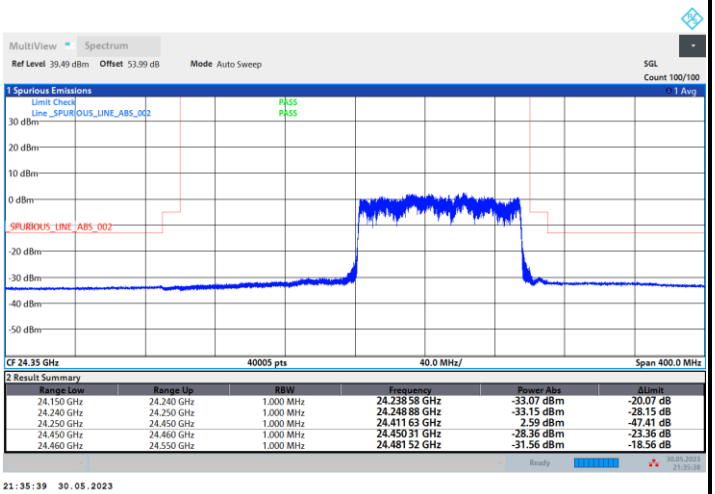
DFT-s-OFDM Module A

NR Band n258A/ 50MHz / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:02:23 30.05.2023	08:45:13 31.05.2023

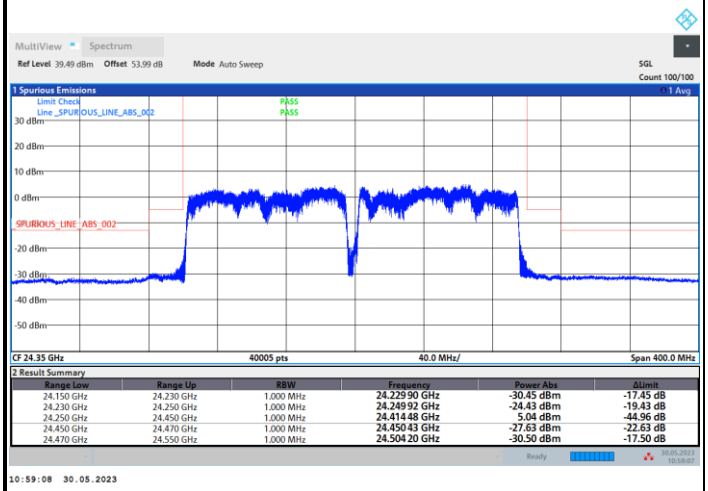
NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:51:42 30.05.2023	21:40:19 30.05.2023

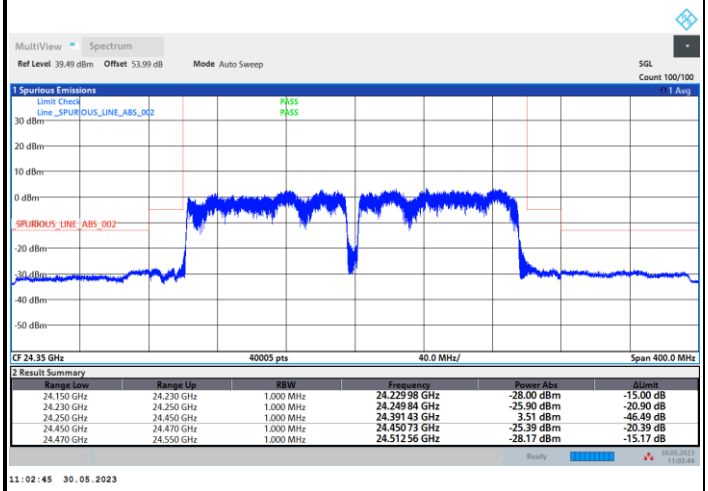
DFT-s-OFDM Module A

NR Band n258A/ 100MHz / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:49:38 30.05.2023	21:37:47 30.05.2023

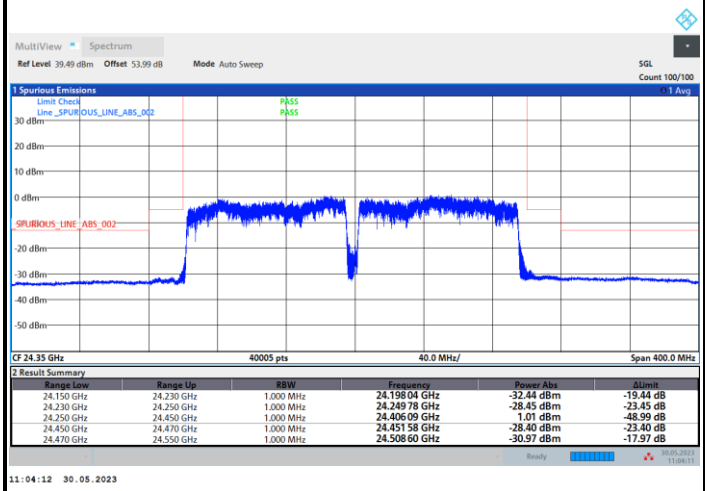
NR Band n258A/ 100MHz / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:48:14 30.05.2023	21:35:39 30.05.2023

DFT-s-OFDM Module A

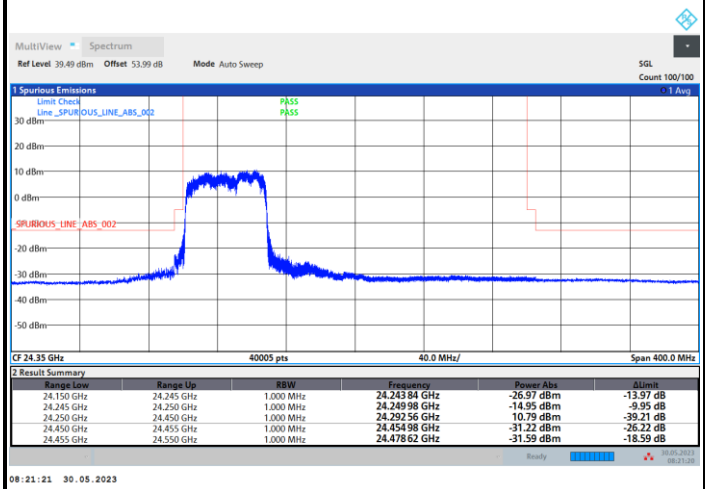
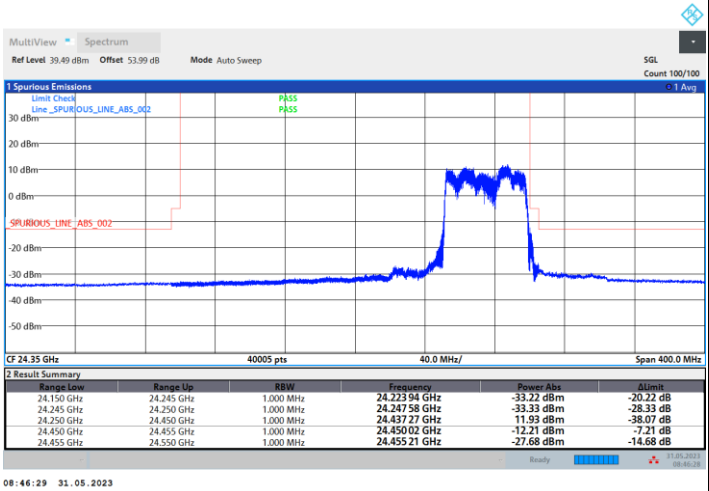
NR Band n258A/ 200MHz / QPSK	
Middle Band Edge / Full RB	
	**intentionally blank**

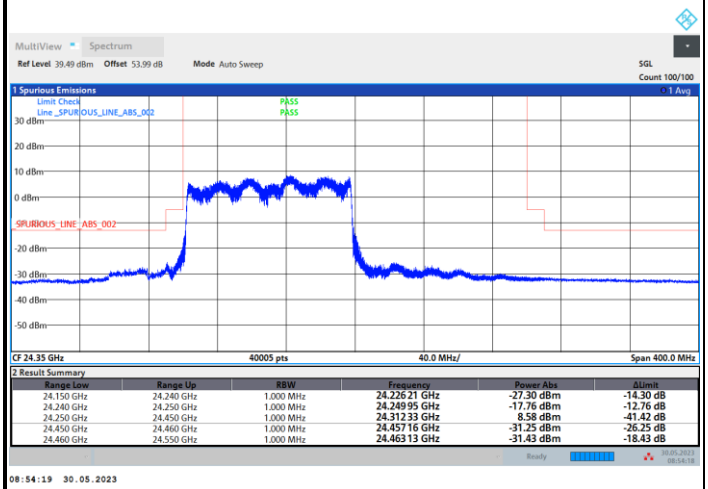
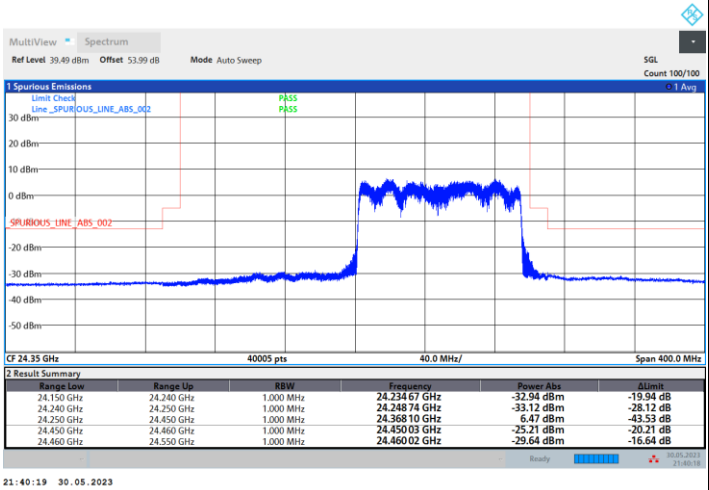
NR Band n258A/ 200MHz / 16QAM	
Middle Band Edge / Full RB	
	**intentionally blank**

DFT-s-OFDM Module A

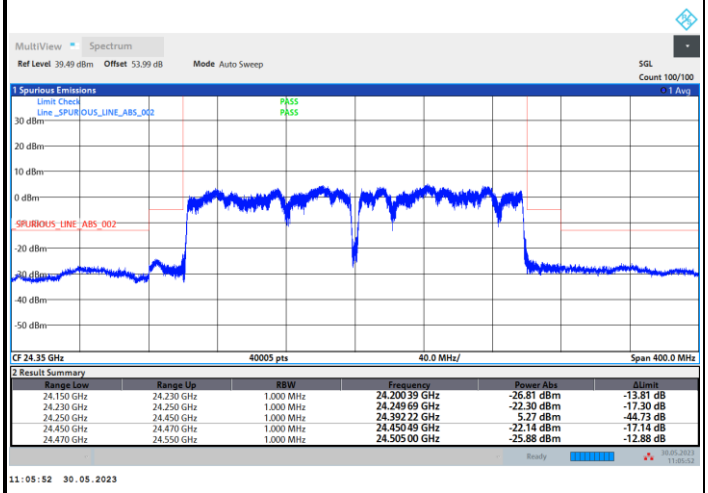
NR Band n258A/ 200MHz / 64QAM	
Middle Band Edge / Full RB	
	**intentionally blank**

CP-OFDM Module A

NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:21:21 30.05.2023	08:46:29 31.05.2023

NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
08:54:19 30.05.2023	21:40:19 30.05.2023

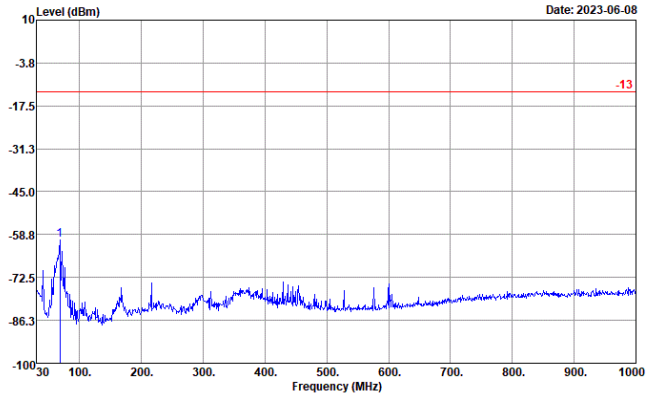
CP-OFDM Module A

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

Spurious Emission

NR Band n258A (30MHz-1GHz)

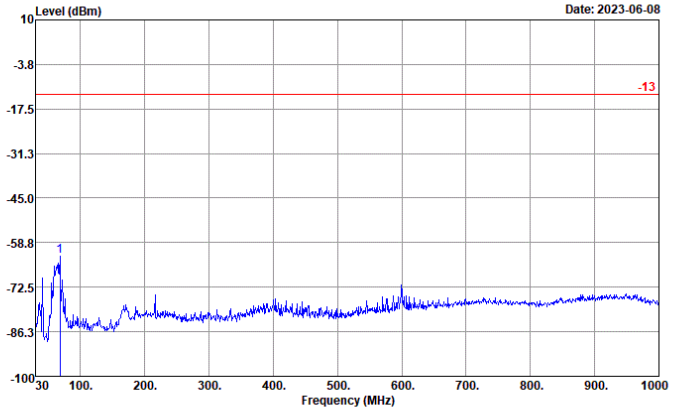
Horizontal



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

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	67.83	-60.52	-47.52	-13.00

Vertical

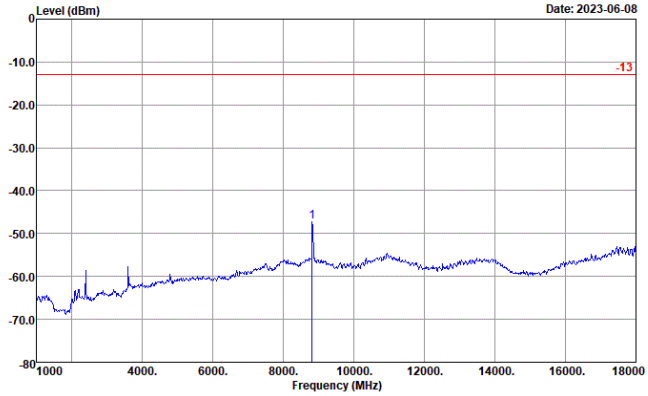


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0206-01
: n258a MA

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	67.83	-62.83	-49.83	-13.00

NR Band n258A (1GHz-18GHz)

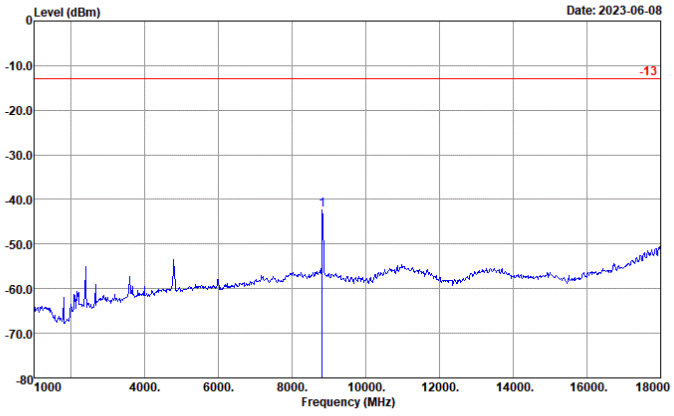
Horizontal



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

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	8820.00	-47.24	-34.24	-13.00

Vertical

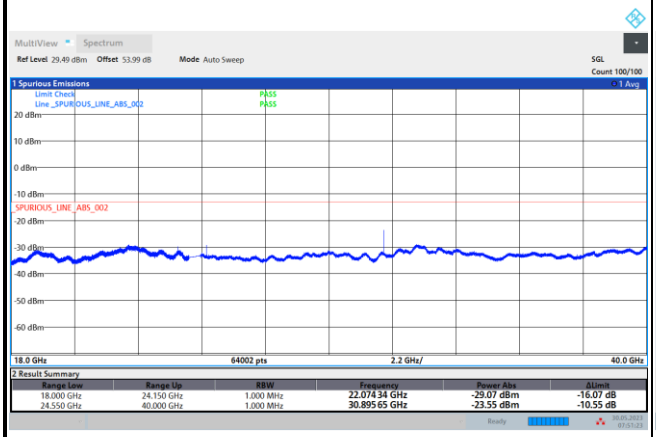
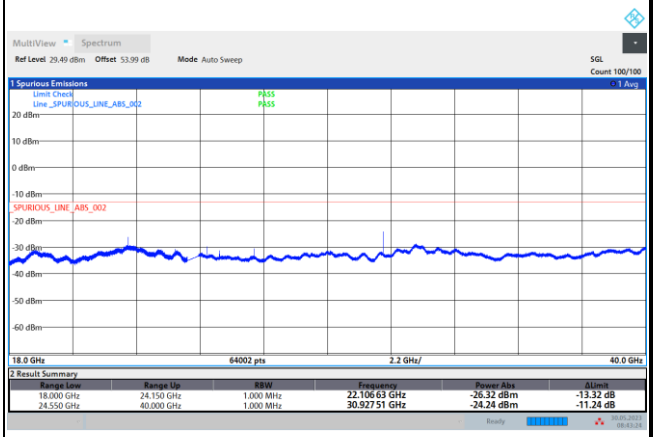
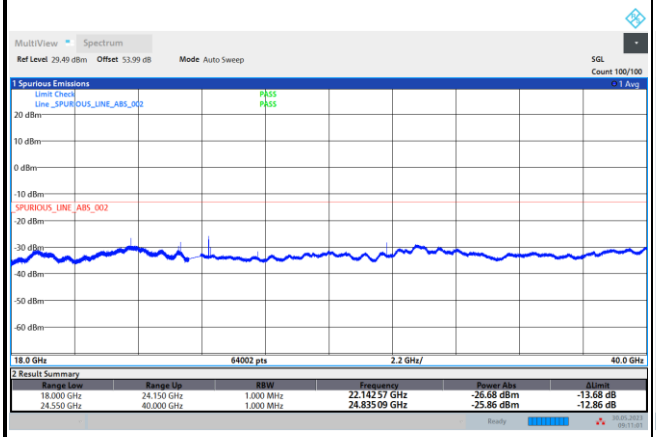
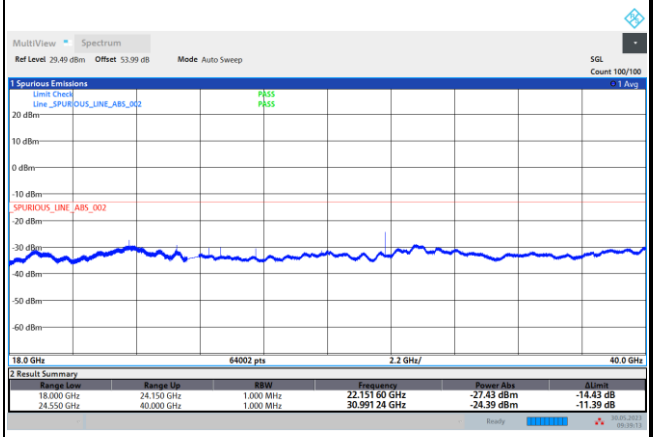
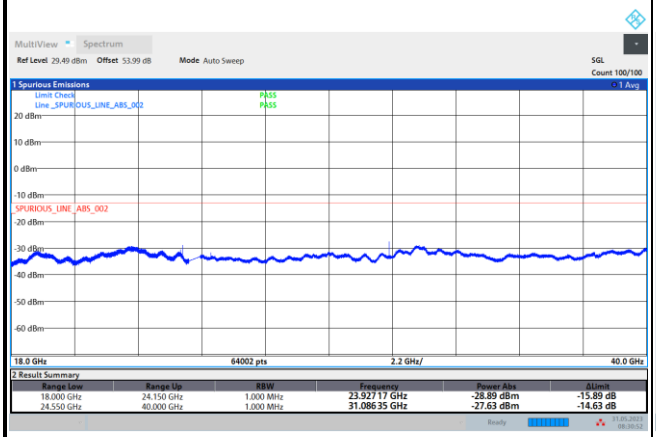
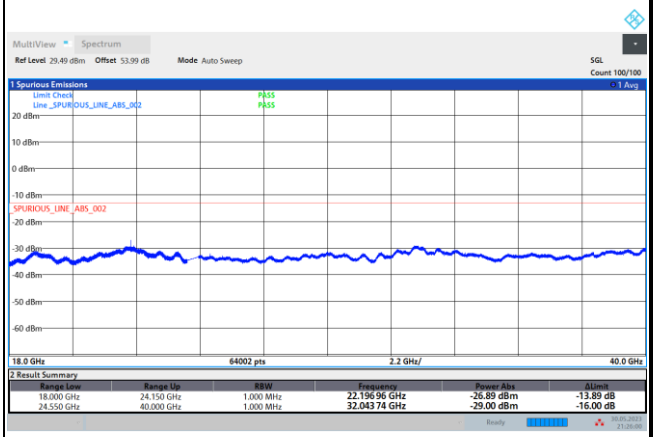


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0206-01
: n258a MA

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	8820.00	-42.35	-29.35	-13.00

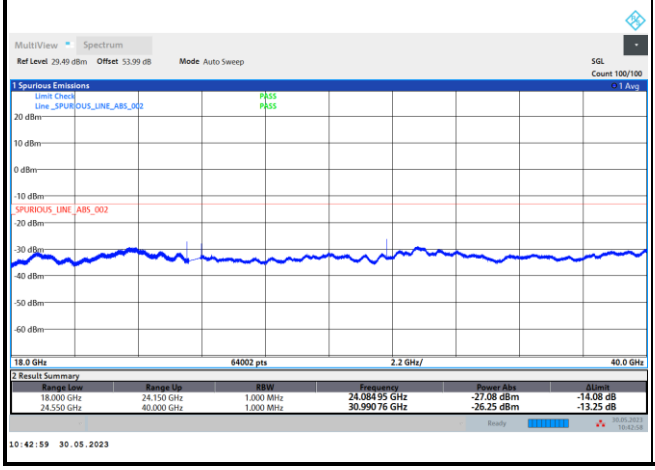
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module A

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

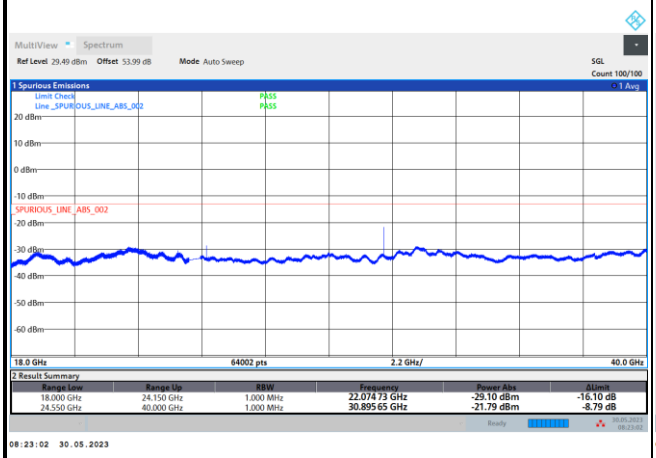
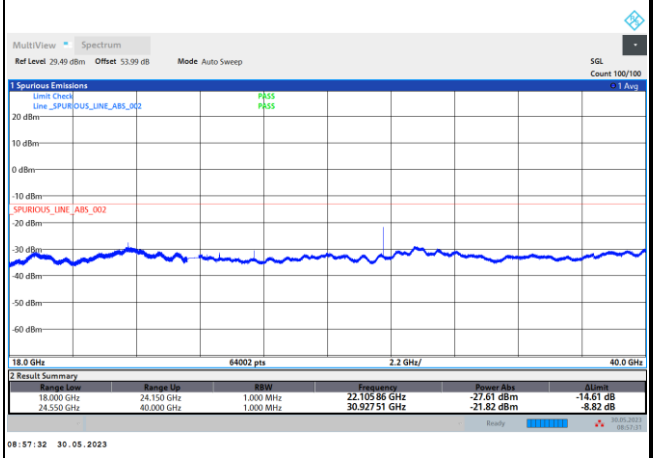
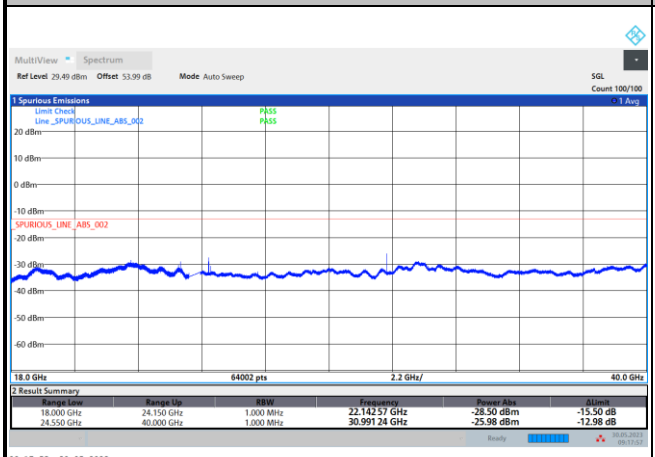
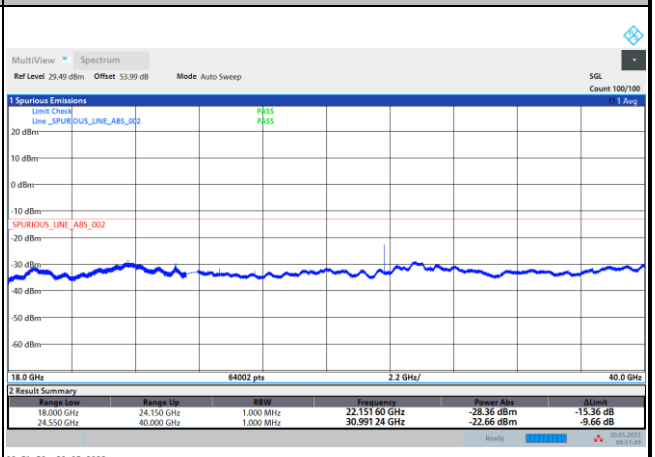
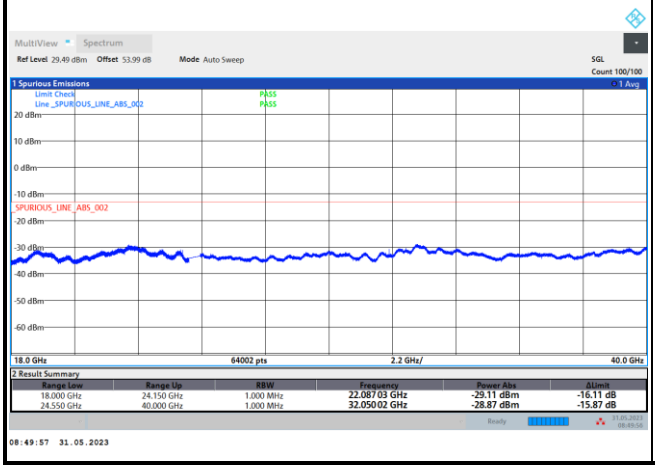
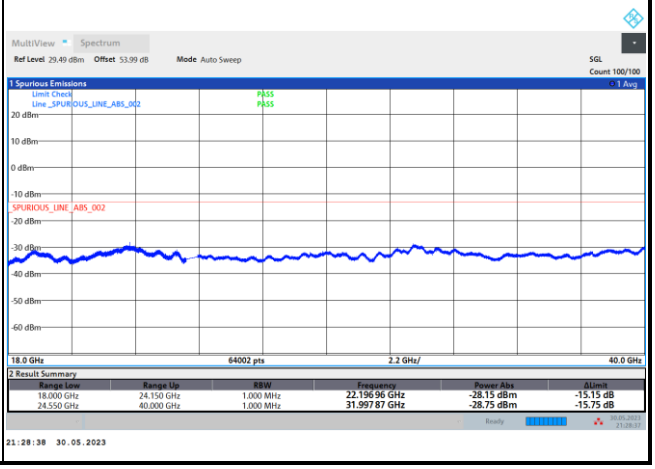
Remark: In band and out of band frequencies are omitted.

DFT-s-OFDM Module A

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

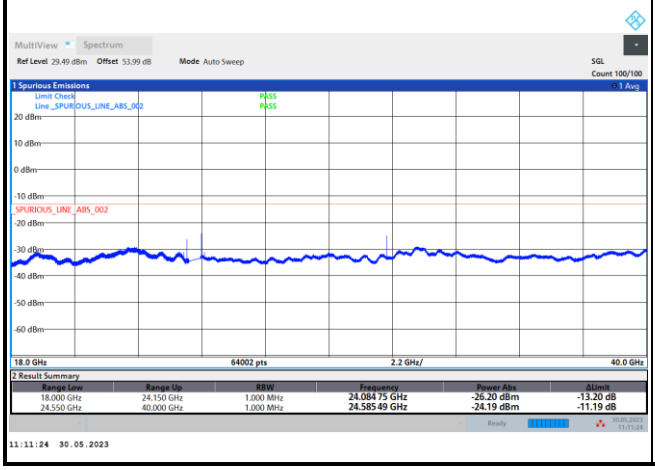
Remark: In band and out of band frequencies are omitted.

CP-OFDM Module A

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

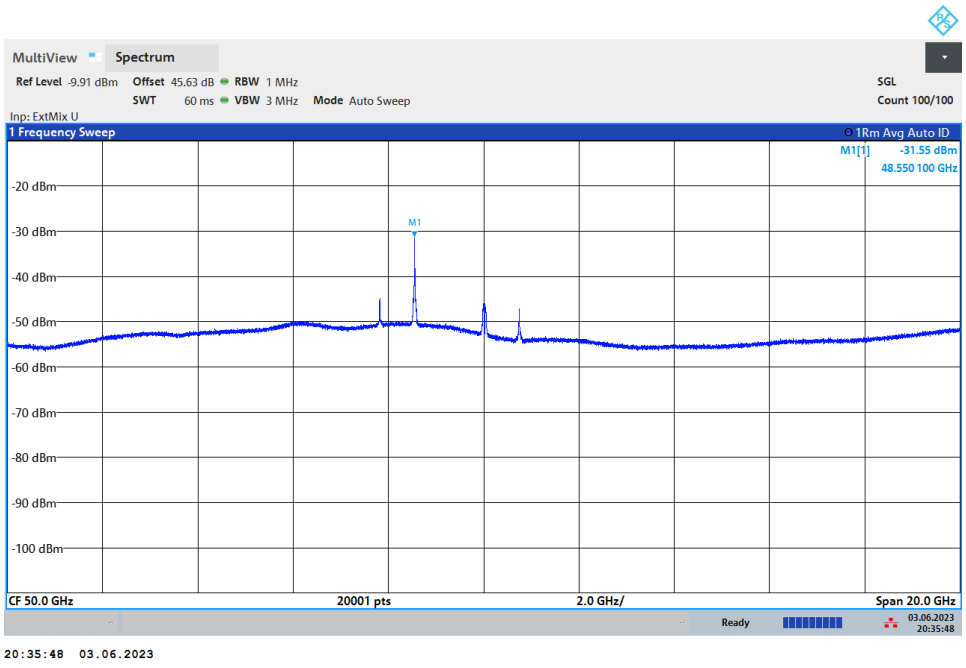
Remark: In band and out of band frequencies are omitted.

CP-OFDM Module A

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

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

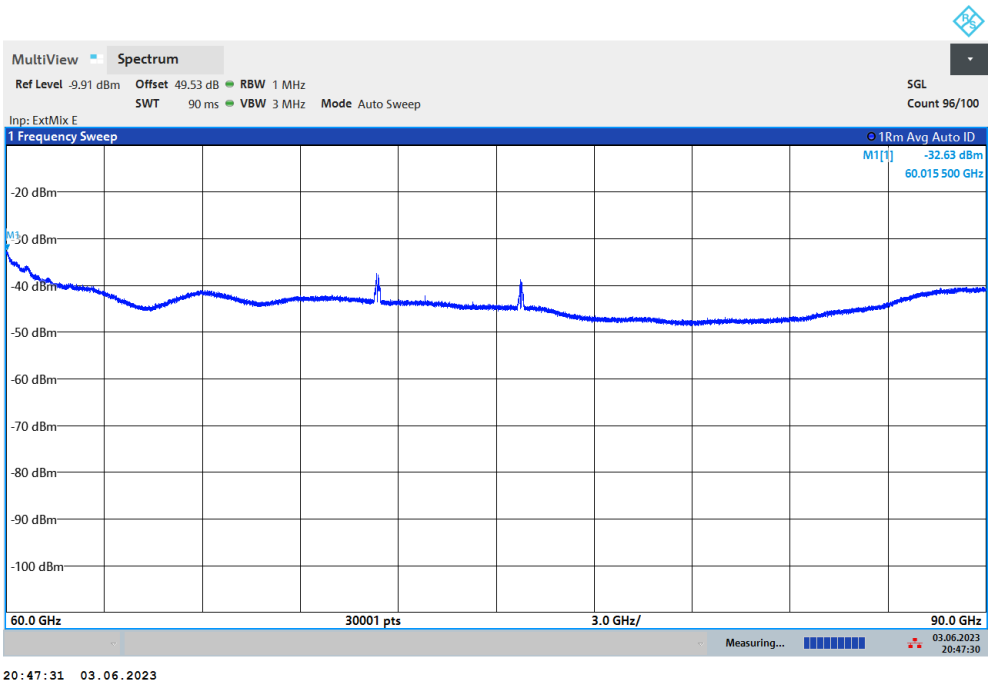
NR Band n258A
(40GHz-60GHz)



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)

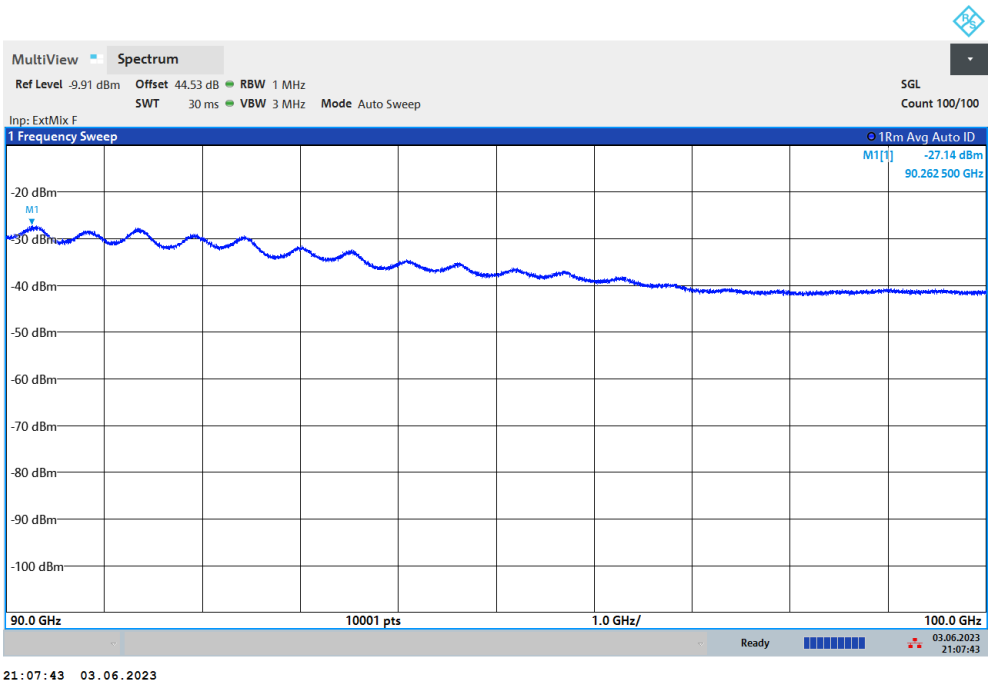
NR Band n258A
(60GHz-90GHz)



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 n258A Module B AGH+V

Occupied Bandwidth

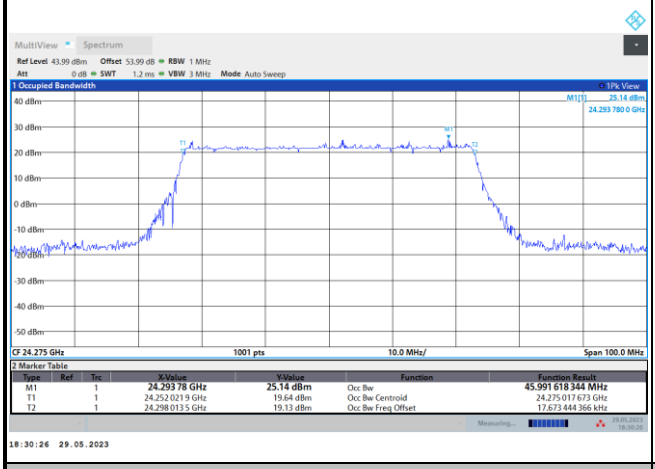
Mode	DFT-s-OFDM Module B NR Band n258A : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.99	45.95	45.95	91.62	91.36	91.23	-	-	-
Middle CH	46.21	46.03	46.00	91.35	91.39	91.34	190.17	190.46	190.11
Highest CH	46.01	46.15	46.02	91.49	91.26	91.34	-	-	-

Mode	CP-OFDM Module B NR Band n258A : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.02	94.32	-
Middle CH	46.01	94.13	193.29
Highest CH	45.91	94.27	-

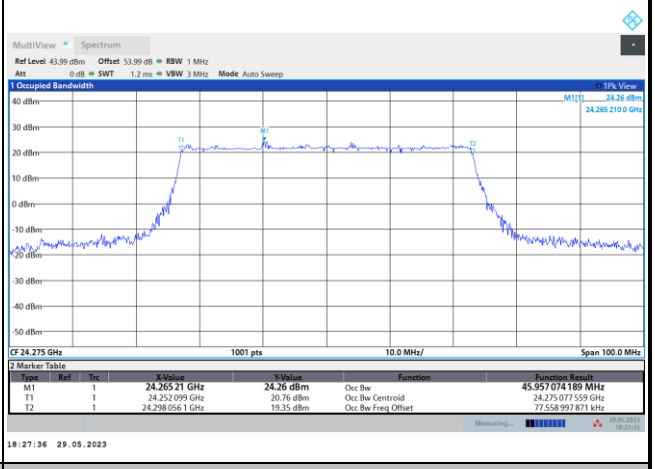
DFT-s-OFDM Module B

NR Band n258A

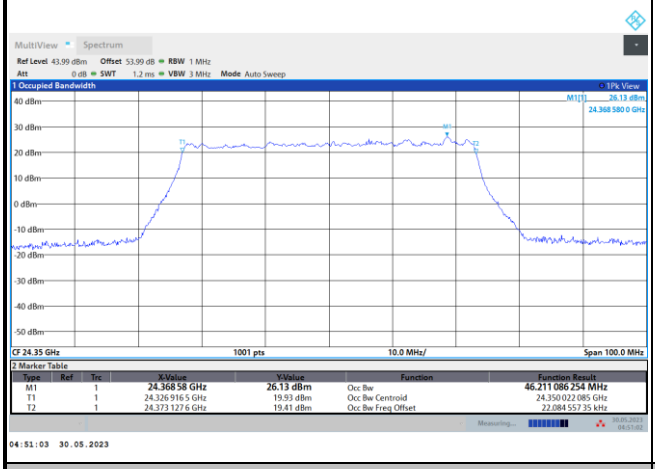
Lowest Channel / 50MHz / QPSK



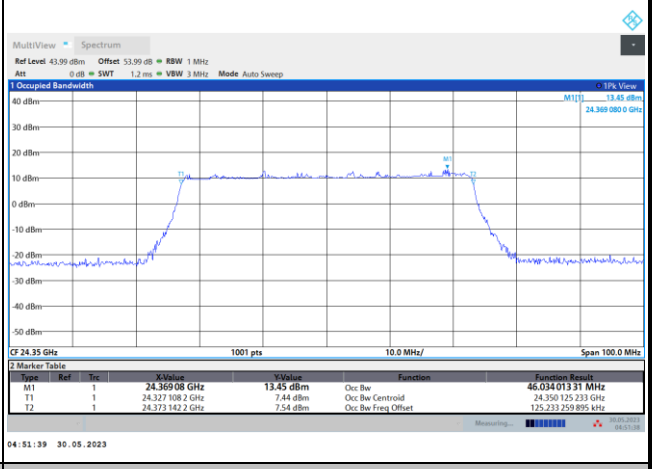
Lowest Channel / 50MHz / 16QAM



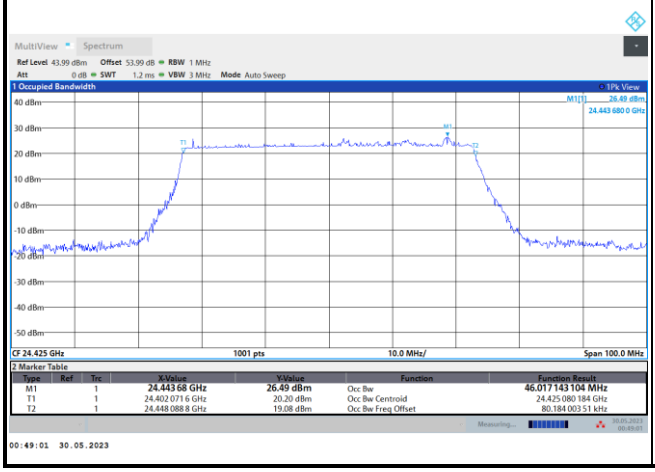
Middle Channel / 50MHz / QPSK



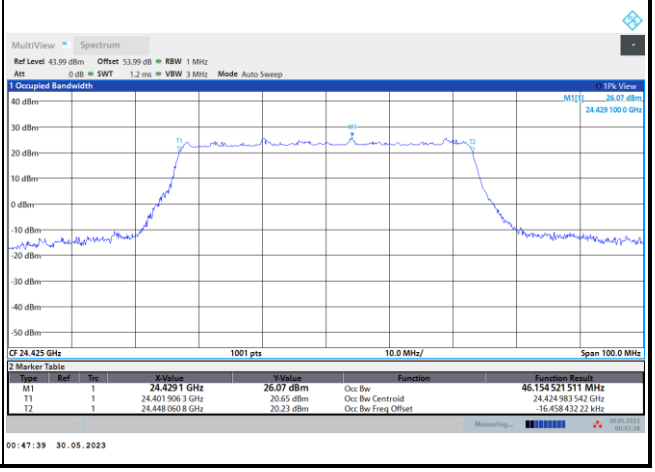
Middle Channel / 50MHz / 16QAM



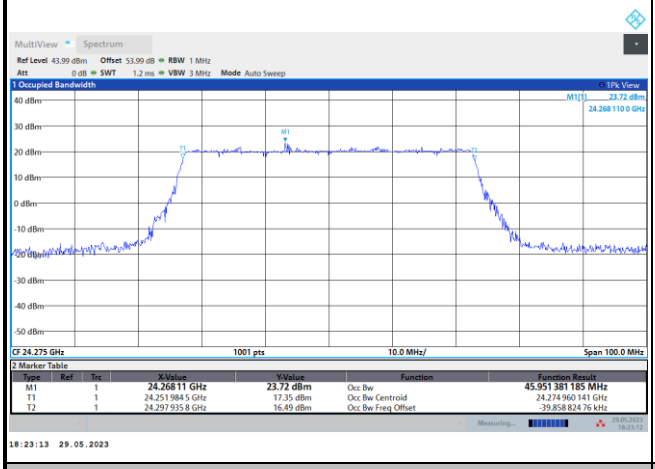
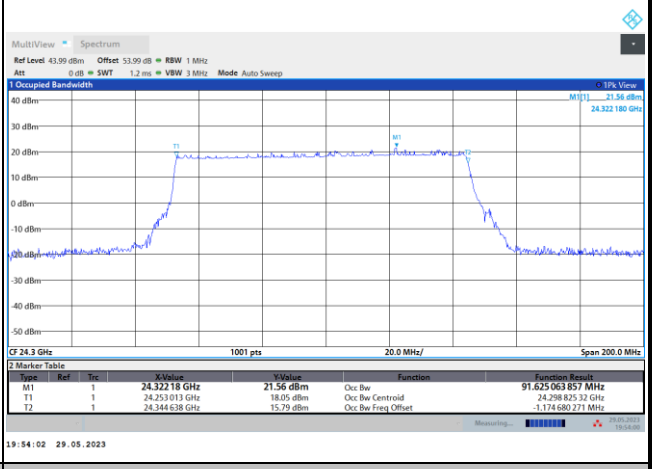
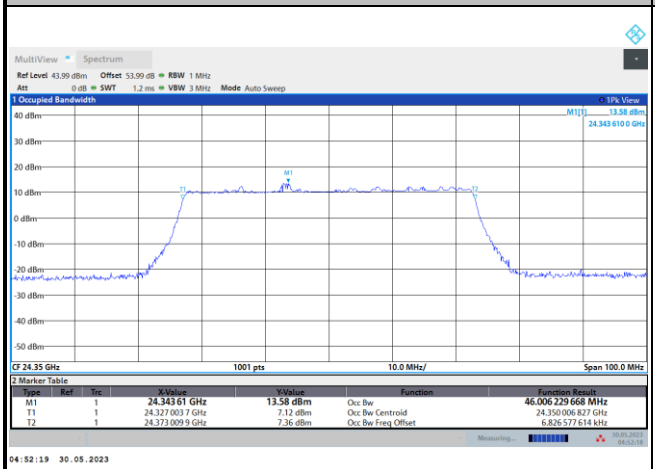
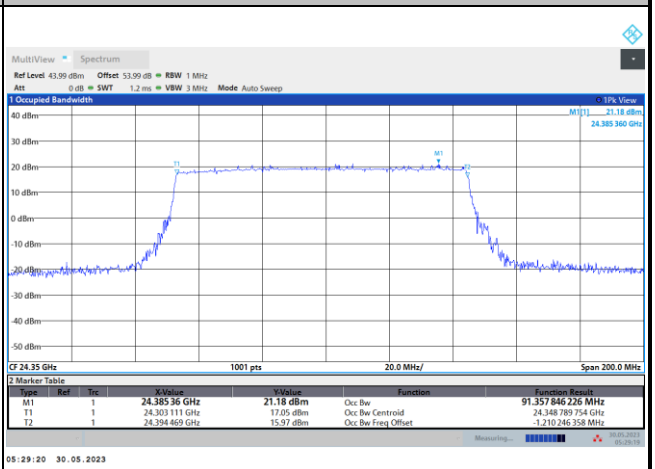
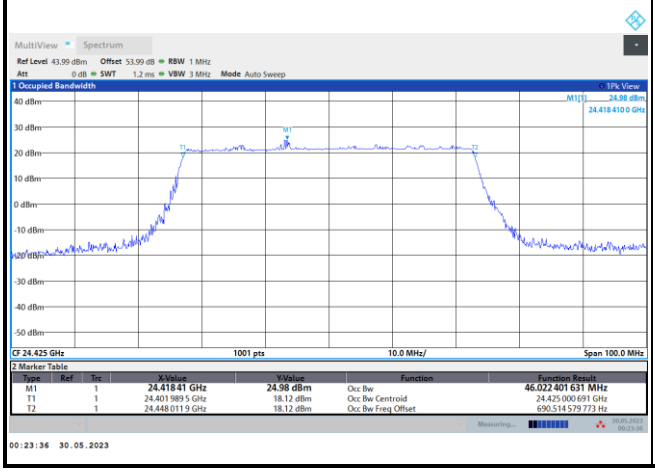
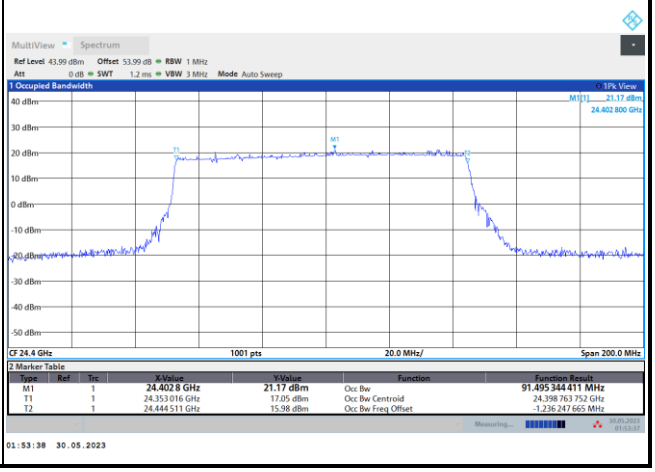
Highest Channel / 50MHz / QPSK



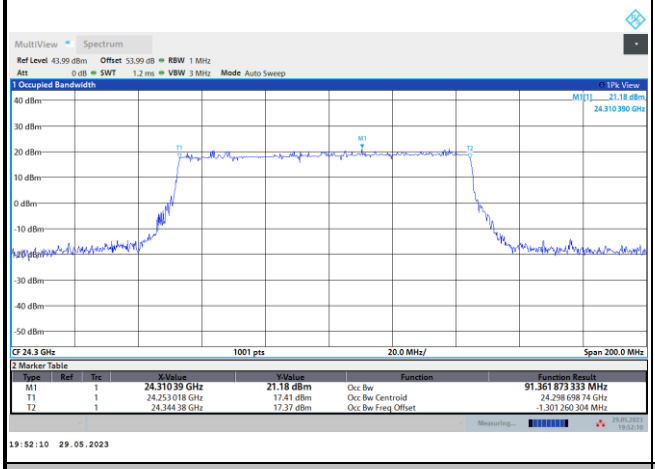
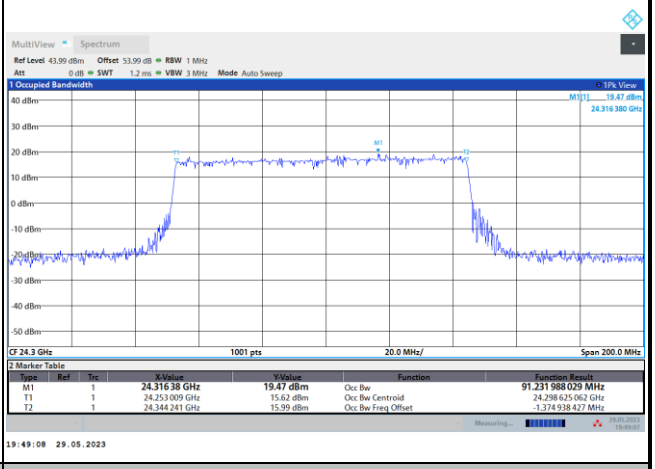
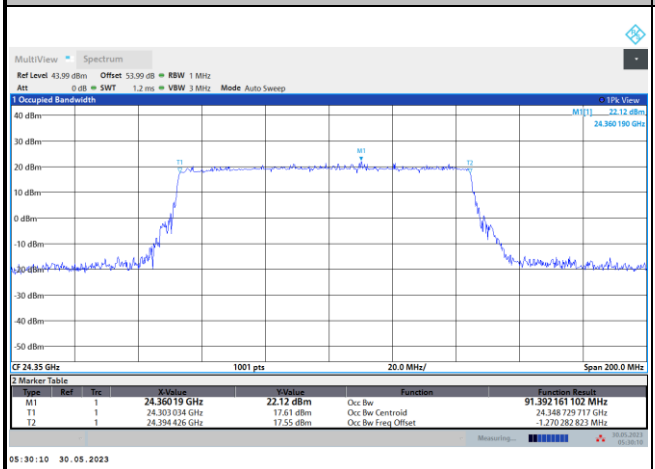
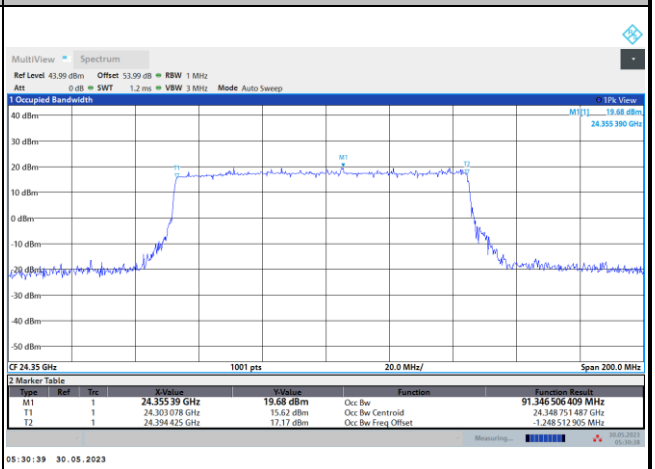
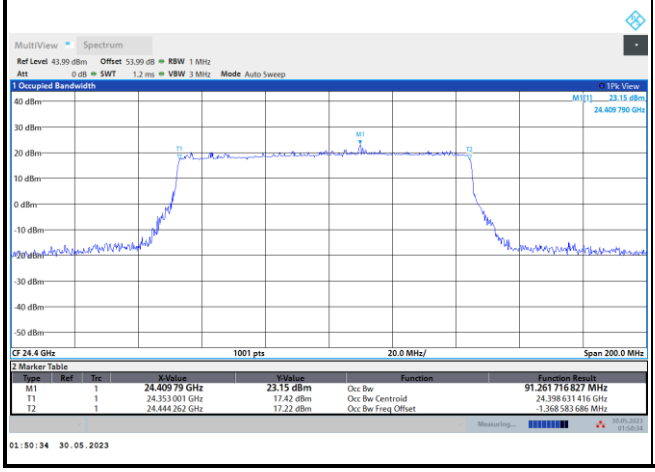
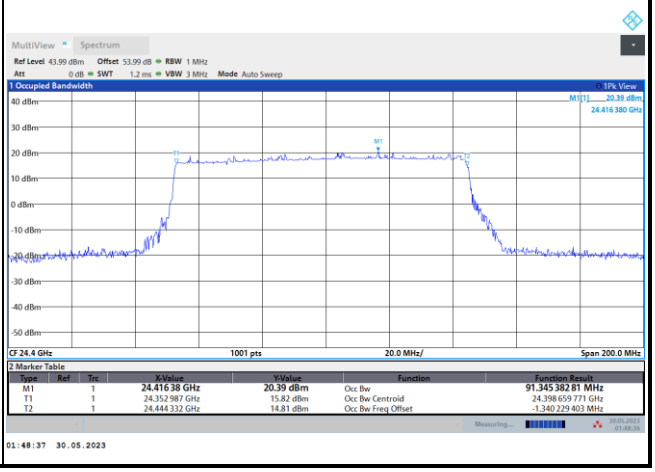
Highest Channel / 50MHz / 16QAM



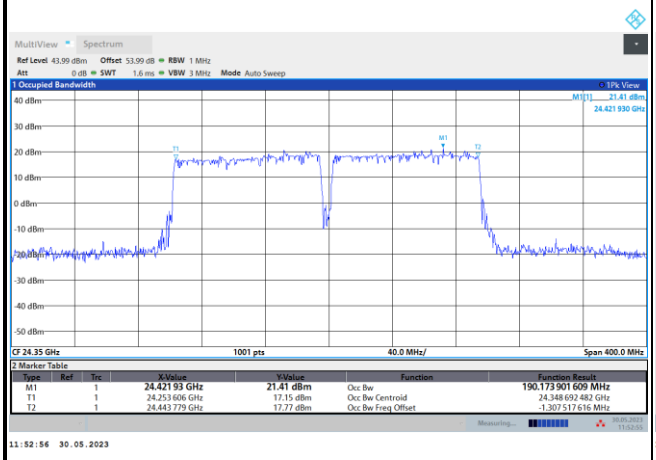
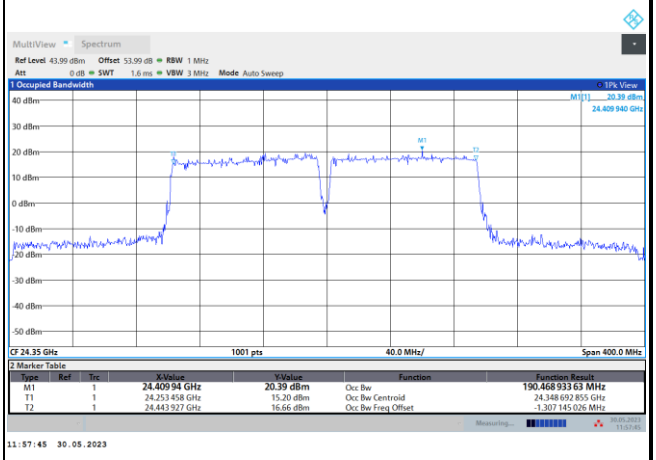
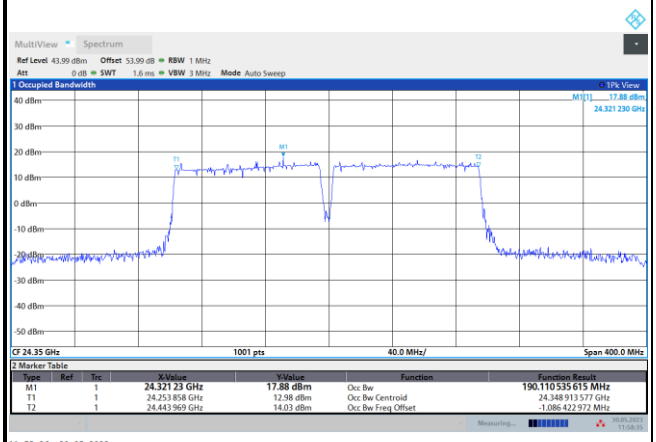
DFT-s-OFDM Module B

NR Band n258A	
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 B

NR Band n258A	
Lowest Channel / 100MHz / 16QAM	**Lowest Channel / 100MHz / 64QAM**
	
Middle Channel / 100MHz / 16QAM	**Middle Channel / 100MHz / 64QAM**
	
Highest Channel / 100MHz / 16QAM	**Highest Channel / 100MHz / 64QAM**
	

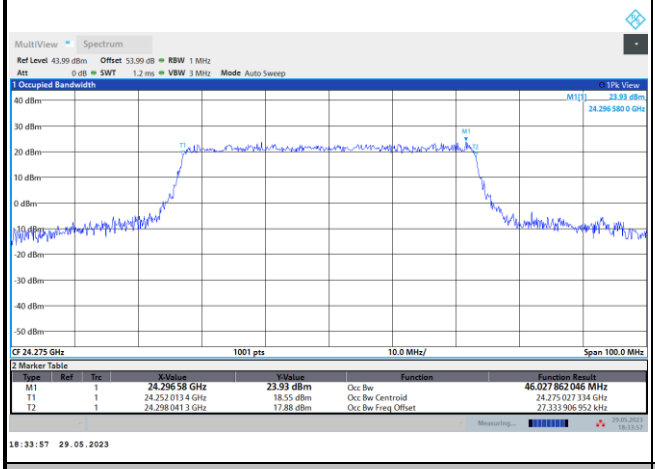
DFT-s-OFDM Module B

NR Band n258A	
Middle Channel / 200MHz / QPSK	**Middle Channel / 200MHz / 16QAM**
	
Middle Channel / 200MHz / 64QAM	
	**intentionally blank**

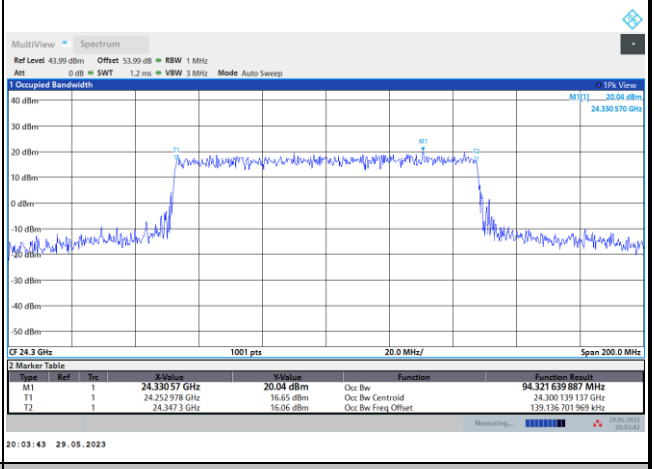
CP-OFDM Module B

NR Band n258A

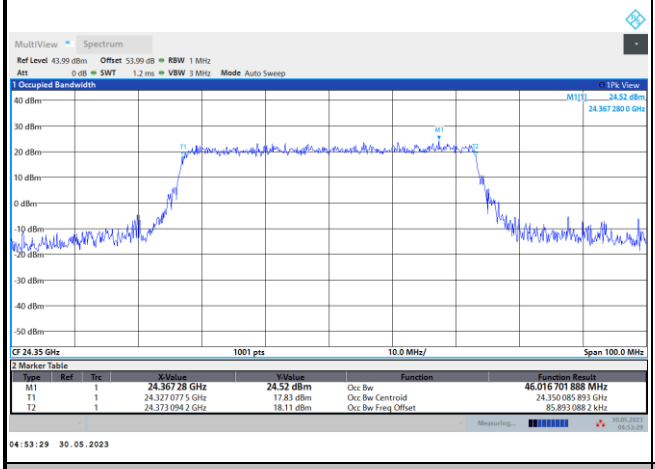
Lowest Channel / 50MHz / QPSK



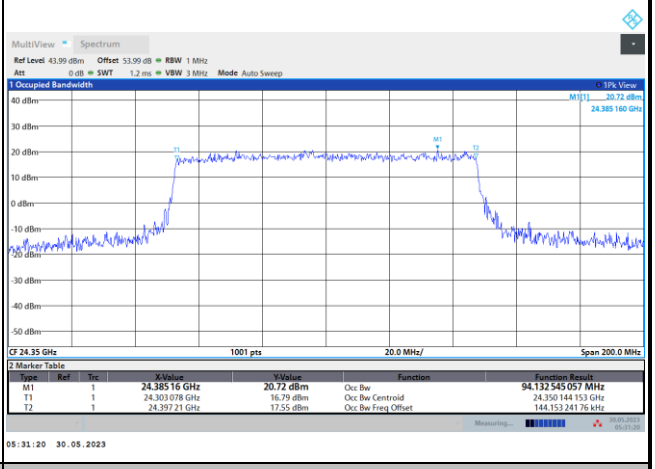
Lowest Channel / 100MHz / QPSK



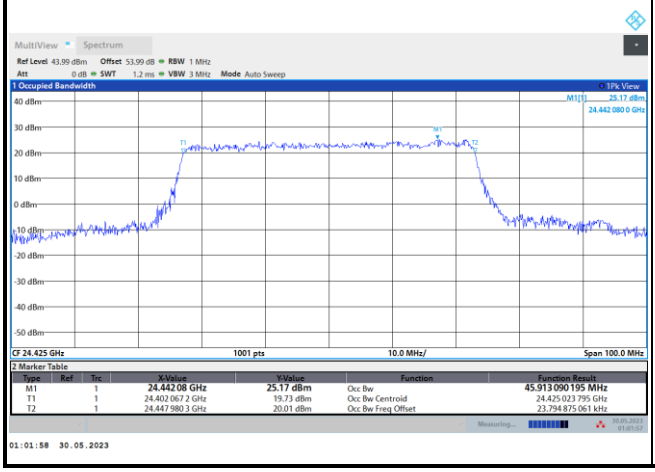
Middle Channel / 50MHz / QPSK



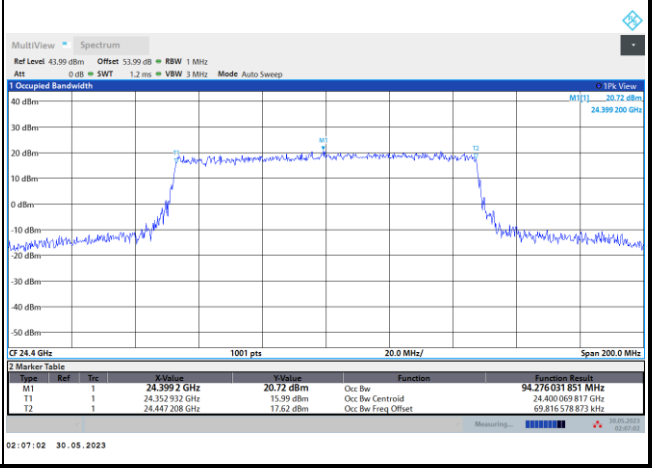
Middle Channel / 100MHz / QPSK



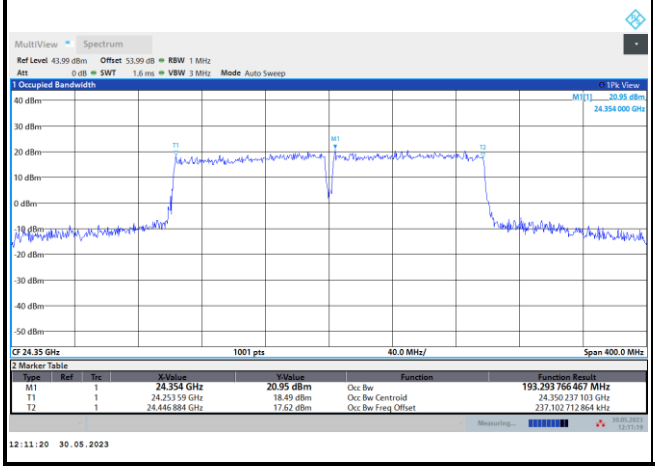
Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK



CP-OFDM Module B

NR Band n258A	
Middle Channel / 200MHz / QPSK	
	**intentionally blank**

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module B NR Band n258A : BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≦-5	-6.34	-5.63	-7.16	-11.72	-9.42	-11.06
	>10%OB	≦-13	-28.50	-29.10	-31.62	-31.65	-31.92	-33.05
High CH	0~10%OB	≦-5	-10.06	-11.97	-14.05	-10.82	-12.51	-14.30
	>10%OB	≦-13	-29.78	-28.42	-29.58	-31.70	-31.57	-31.08
Result			Compliance					

Mode			CP-OFDM Module B NR Band n258A : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≦-5	-6.18	-8.10
	>10%OB	≦-13	-29.15	-31.98
High CH	0~10%OB	≦-5	-10.10	-10.32
	>10%OB	≦-13	-29.09	-31.10
Result			Compliance	

Mode			DFT-s-OFDM Module B NR Band n258A : BE (dBm) 1 RB		
BW			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Mid CH	0~10%OB	≦-5	-13.56	-17.31	-18.60
	>10%OB	≦-13	-18.39	-20.94	-17.45

Mode			CP-OFDM Module B NR Band n258A : BE (dBm) 1 RB
BW			200MHz
Limit (dBm)			QPSK
Mid CH	0~10%OB	≦-5	-15.21
	>10%OB	≦-13	-14.22

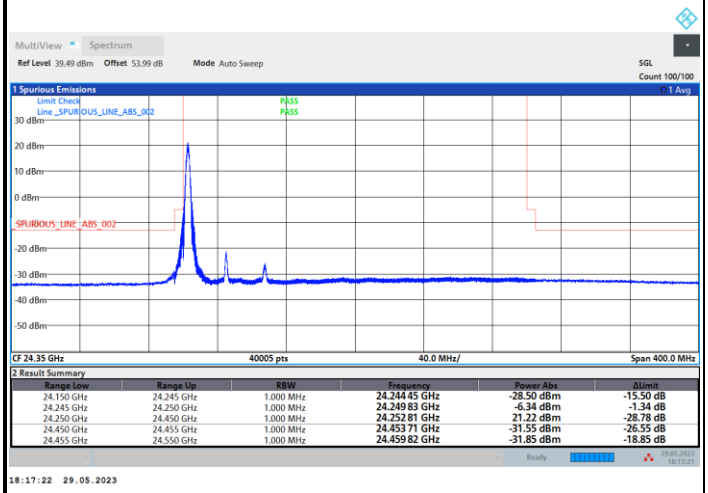
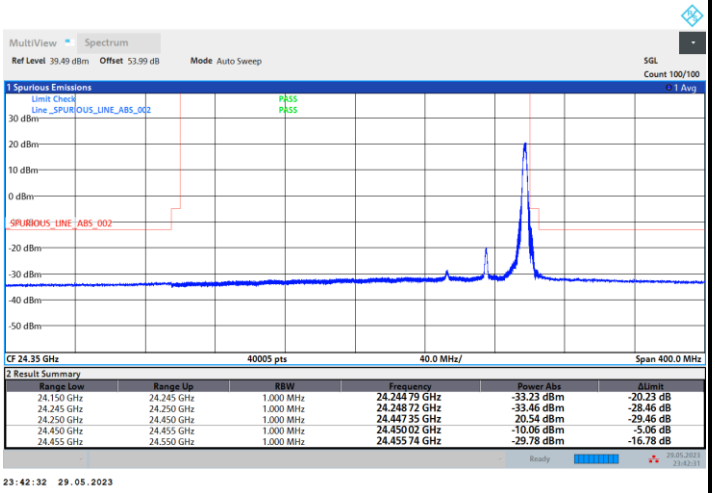
Mode			DFT-s-OFDM Module B NR Band n258A : BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≦-5	-15.89	-17.33	-18.62	-22.55	-21.03	-22.74
	>10%OB	≦-13	-30.17	-27.83	-28.25	-30.67	-29.00	-31.23
High CH	0~10%OB	≦-5	-16.46	-18.41	-19.96	-24.70	-25.45	-26.65
	>10%OB	≦-13	-27.74	-28.85	-30.05	-30.18	-29.73	-30.31
Result			Compliance					

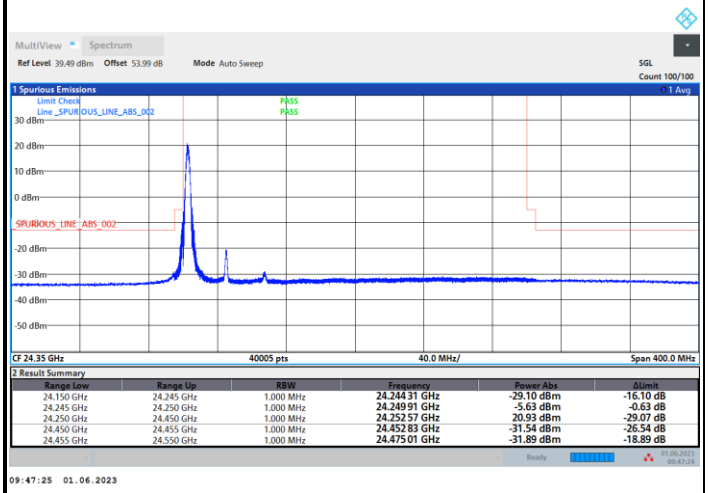
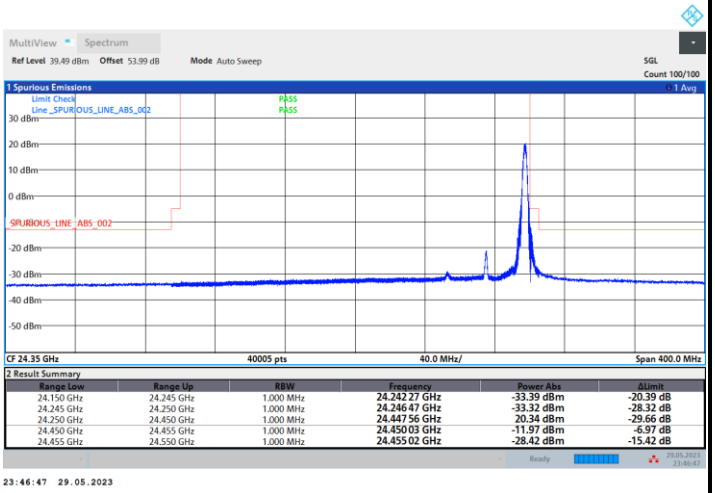
Mode			CP-OFDM Module B NR Band n258A : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≦-5	-14.84	-19.46
	>10%OB	≦-13	-25.81	-26.17
High CH	0~10%OB	≦-5	-19.10	-21.76
	>10%OB	≦-13	-24.78	-27.19
Result			Compliance	

Mode			DFT-s-OFDM Module B NR Band n258A : BE (dBm) Full RB		
BW			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Mid CH	0~10%OB	≦-5	-22.40	-25.72	-28.78
	>10%OB	≦-13	-31.21	-31.16	-32.07

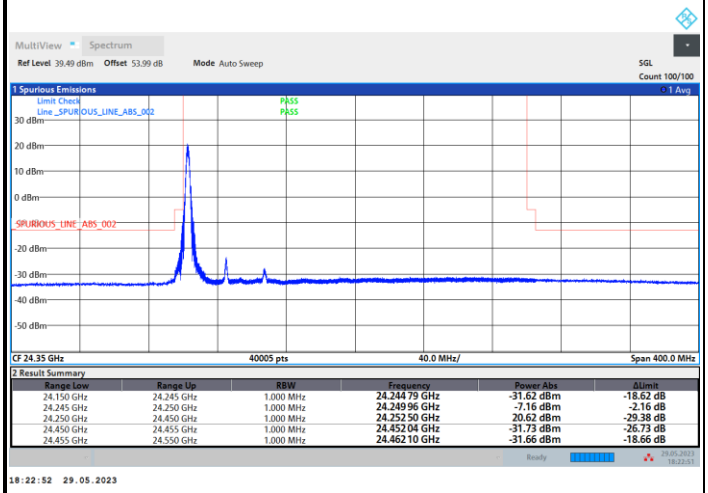
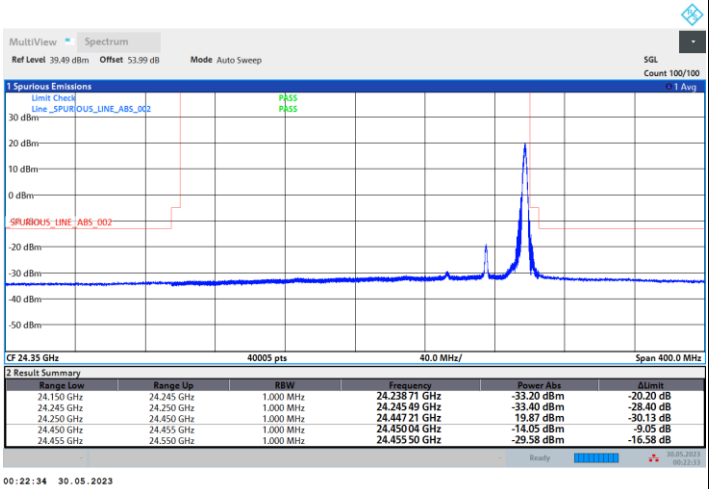
Mode			CP-OFDM Module B NR Band n258A : BE (dBm) Full RB
BW			200MHz
Limit (dBm)			QPSK
Mid CH	0~10%OB	≦-5	-20.19
	>10%OB	≦-13	-26.04

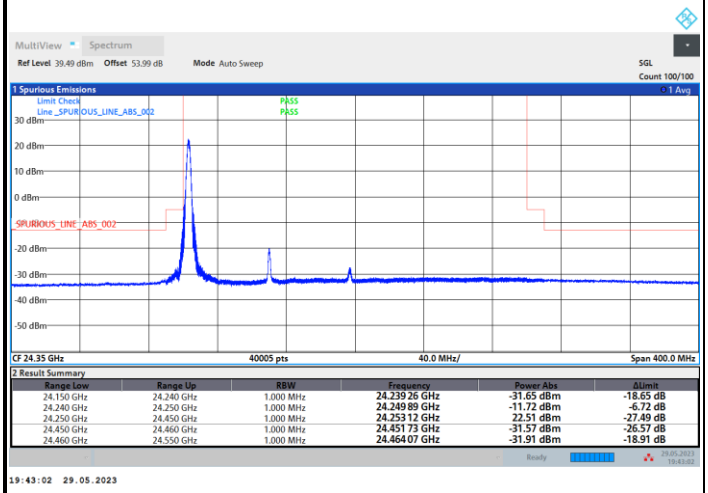
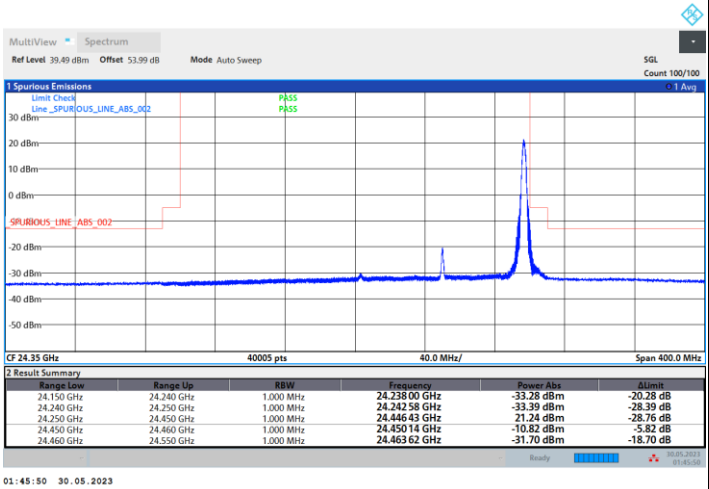
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
18:17:22 29.05.2023	23:42:32 29.05.2023

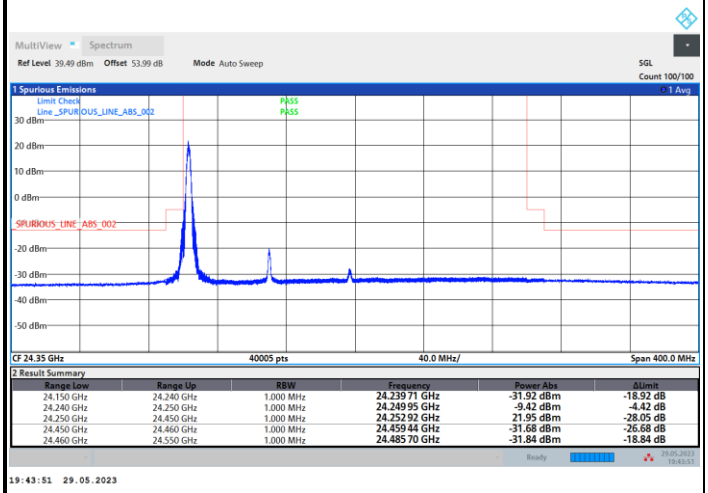
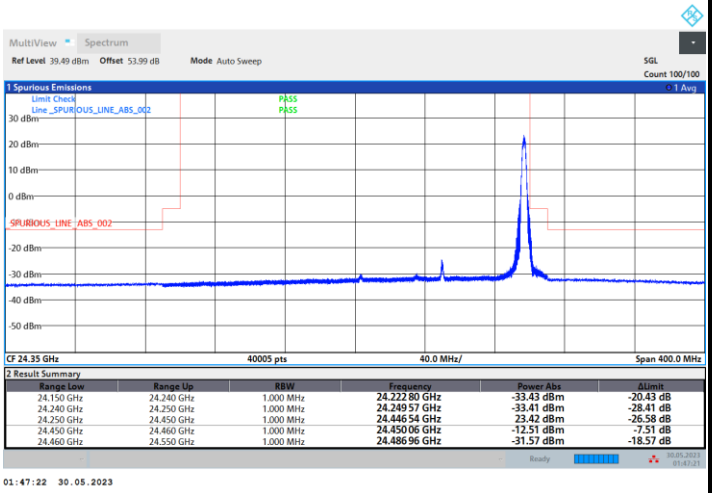
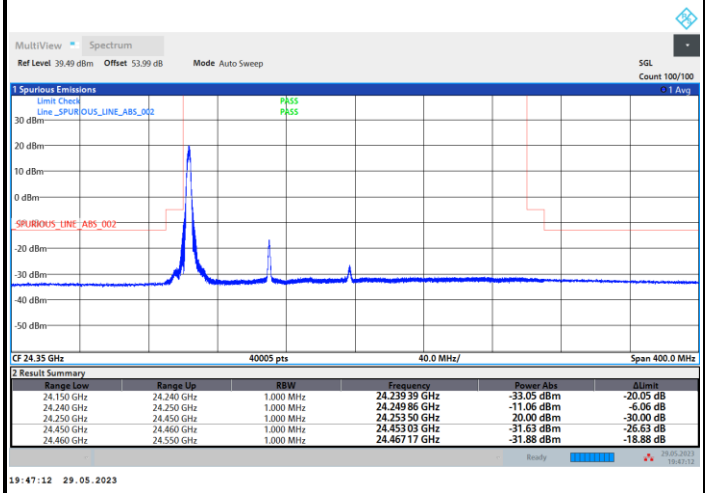
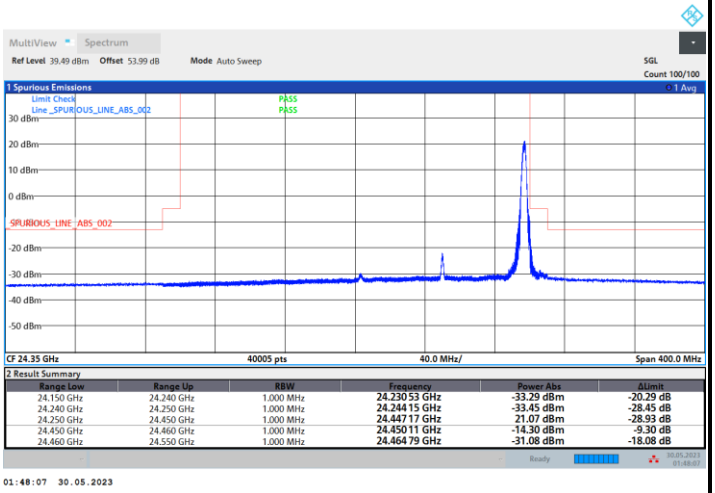
NR Band n258A/ 50MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
09:47:25 01.06.2023	23:46:47 29.05.2023

DFT-s-OFDM Module B

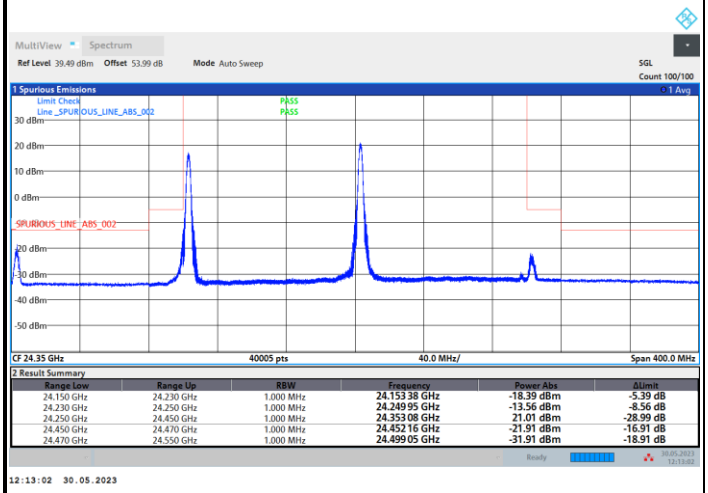
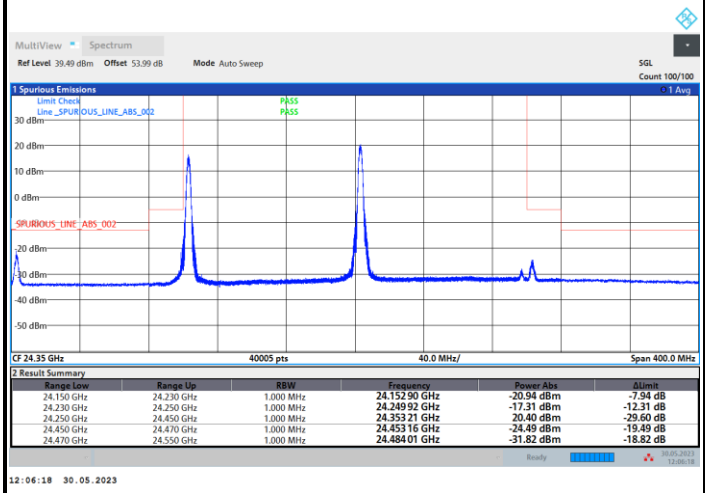
NR Band n258A/ 50MHz / 64QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
18:22:52 29.05.2023	00:22:34 30.05.2023

NR Band n258A/ 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
19:43:02 29.05.2023	01:45:50 30.05.2023

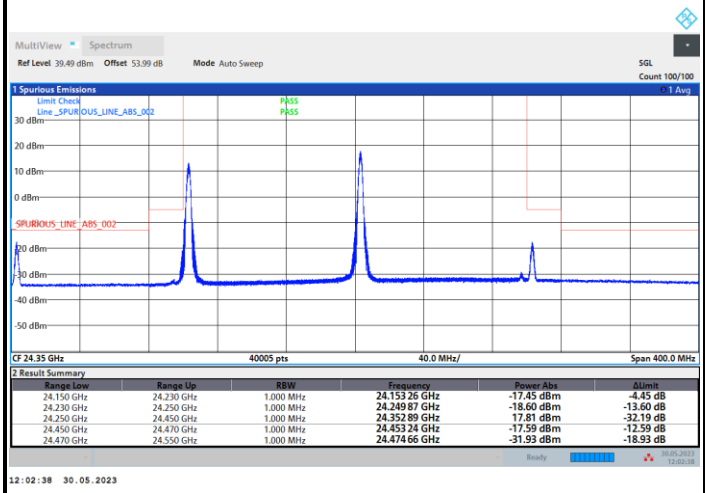
DFT-s-OFDM Module B

NR Band n258A/ 100MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
NR Band n258A/ 100MHz / 64QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

DFT-s-OFDM Module B

NR Band n258A/ 200MHz / QPSK	
Middle Band Edge / 1 RB	
	**intentionally blank**
NR Band n258A/ 200MHz / 16QAM	
Middle Band Edge / 1 RB	
	**intentionally blank**

DFT-s-OFDM Module B

NR Band n258A/ 200MHz / 64QAM	
Middle Band Edge / 1 RB	
	**intentionally blank**