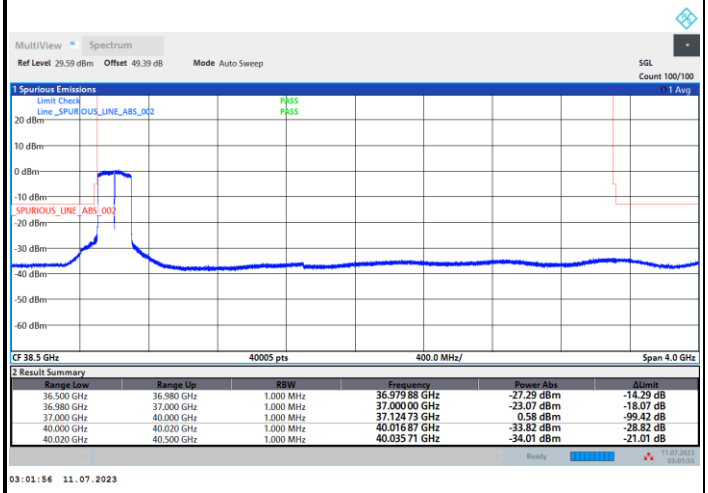
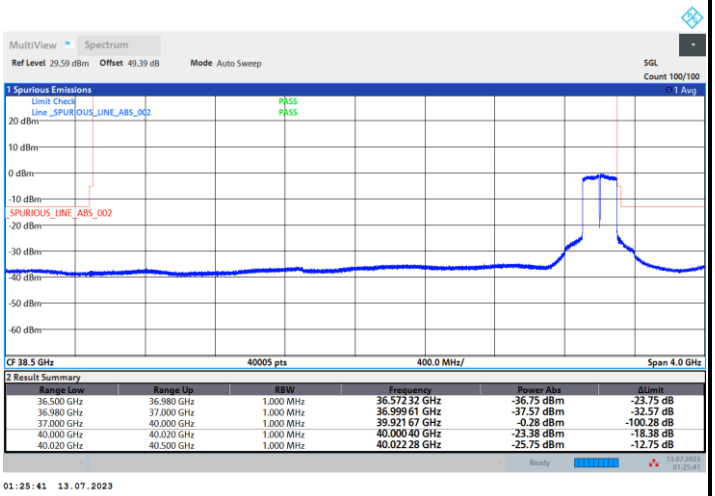
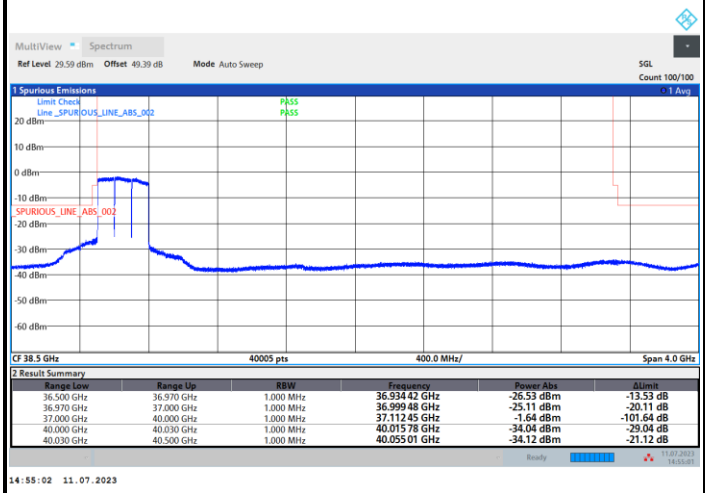
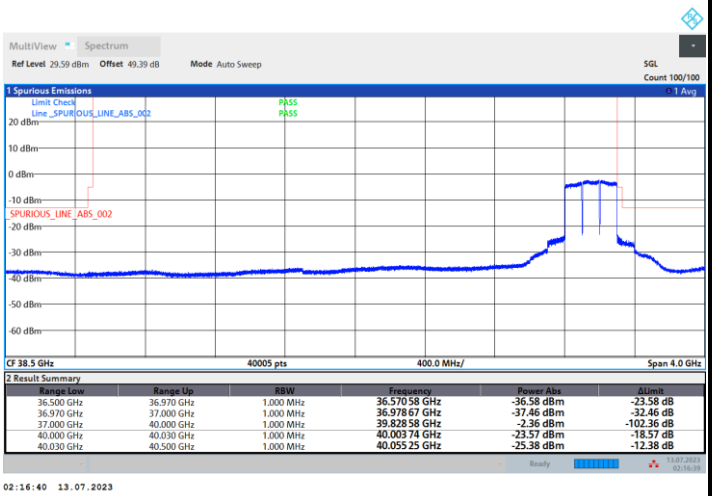
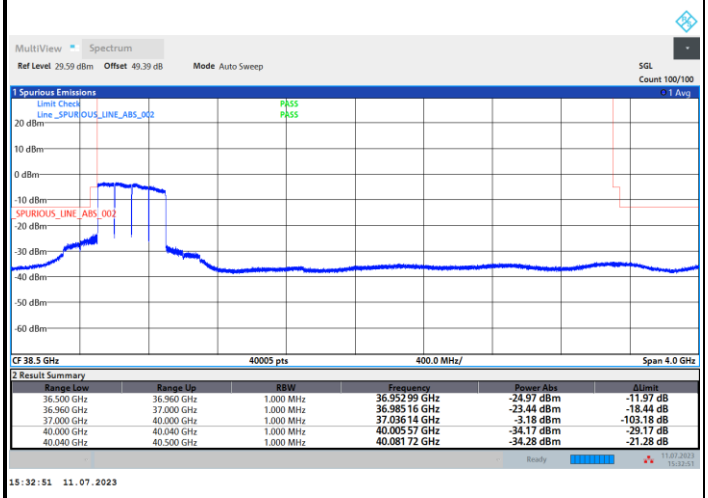
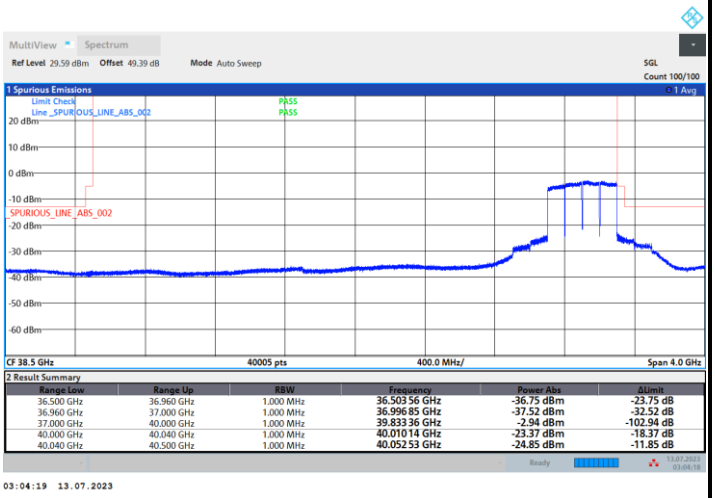
CP-OFDM Module A

NR Band n260 / 200MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
03:01:56 11.07.2023	01:25:41 13.07.2023

NR Band n260 / 300MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	
14:55:02 11.07.2023	02:16:40 13.07.2023

CP-OFDM Module A

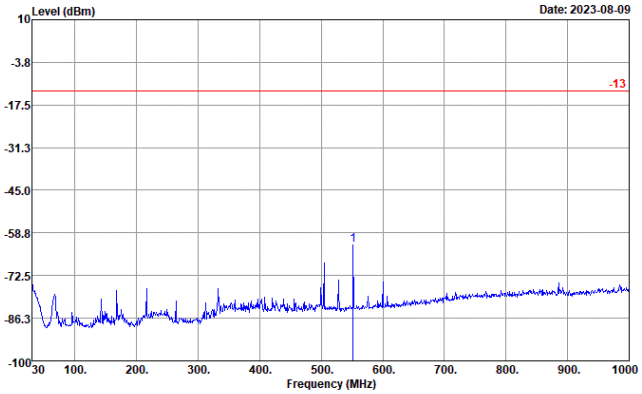
NR Band n260 / 400MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

Only the noise floor is reported.

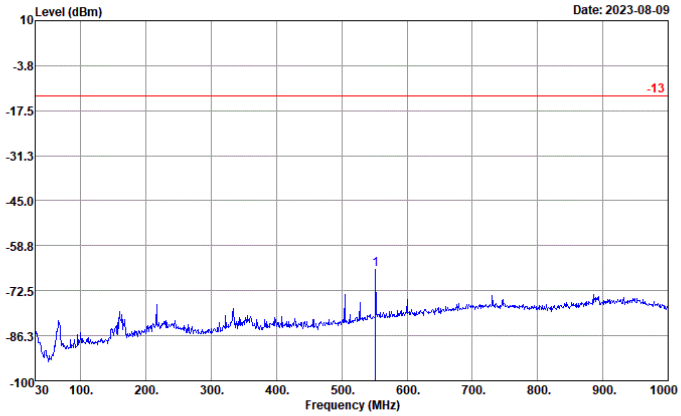
NR Band n260 (30MHz-1GHz)
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 380306
: n260 MA

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	551.86	-62.49	-49.49	-13.00

Vertical

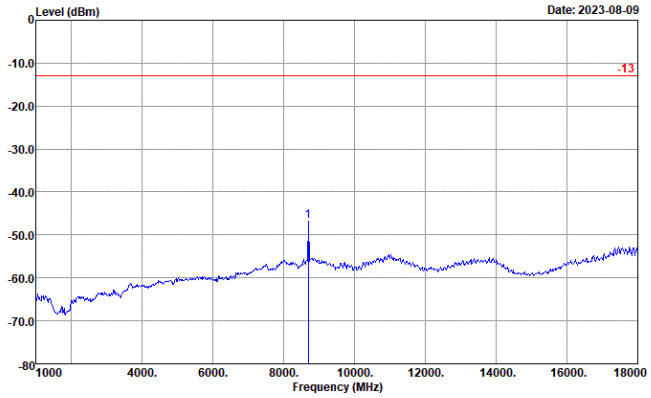


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 380306
: n260 MA

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	551.86	-66.14	-53.14	-13.00

NR Band n260 (1GHz-18GHz)

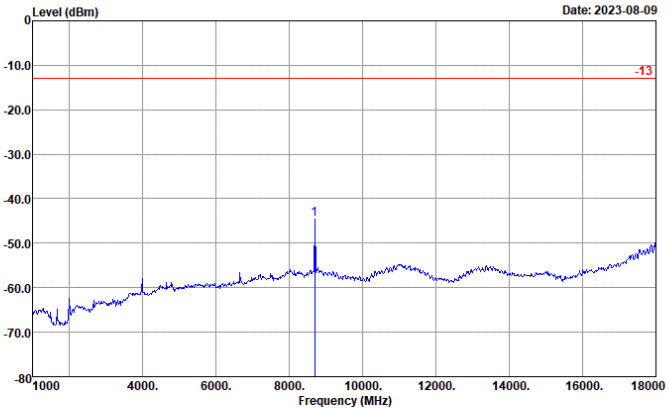
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 380306
: n260 MA

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	8701.00	-46.86	-33.86	-13.00

Vertical

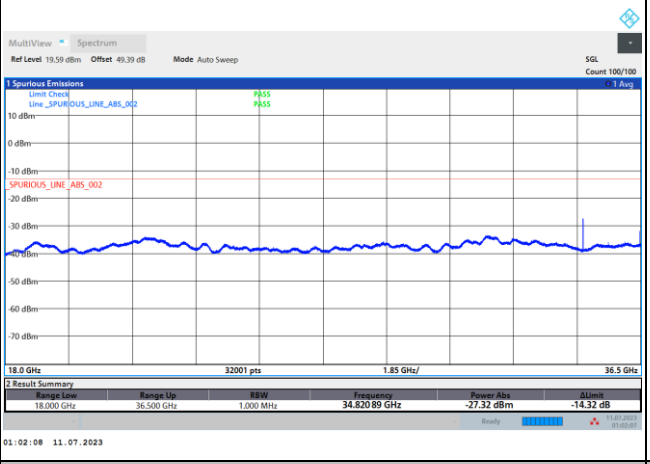
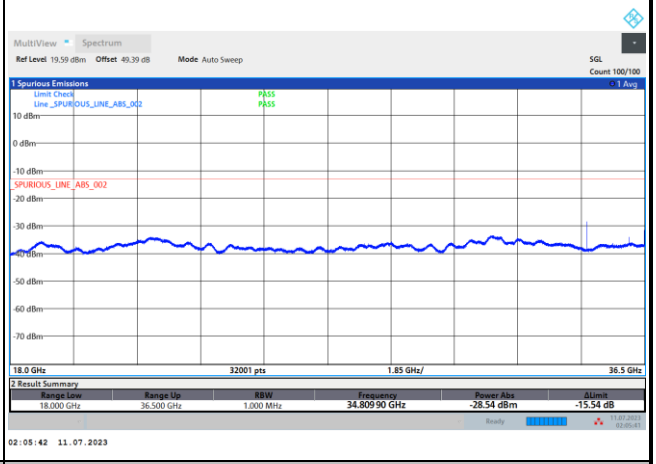
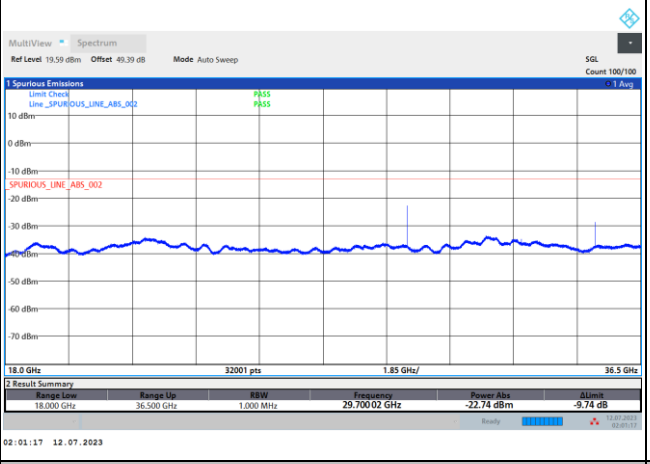
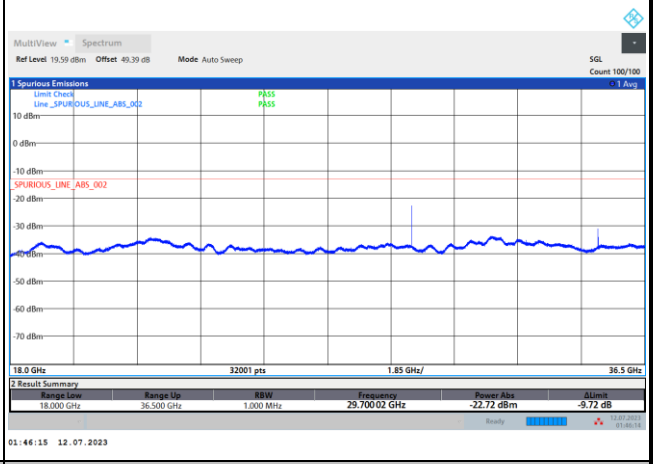
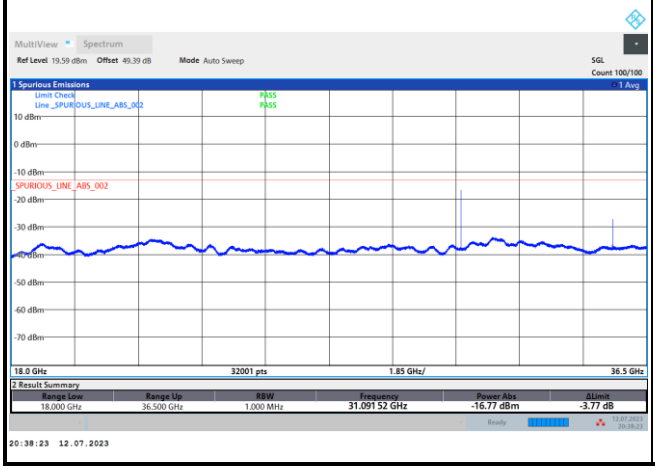
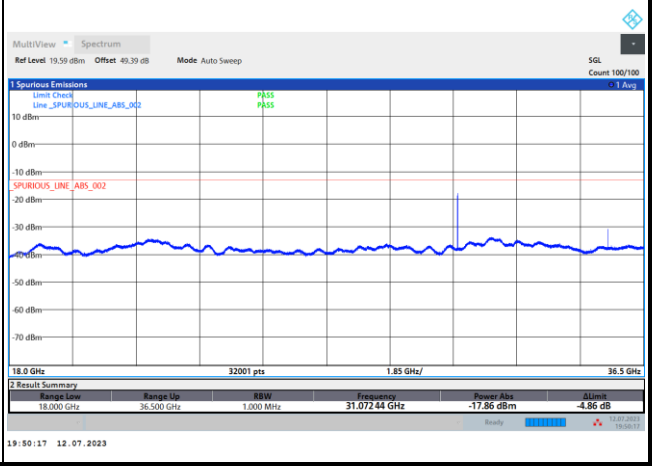


Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 380306
: n260 MA

	Freq	Level	Over Limit	Limit Line
	MHz	dBm	dB	dBm
1	8701.00	-44.48	-31.48	-13.00

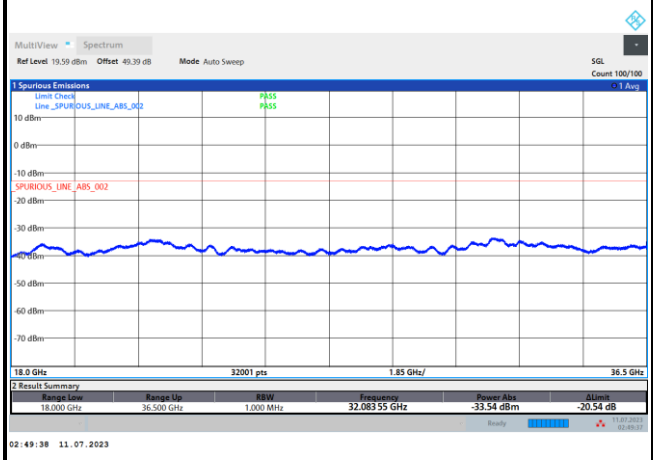
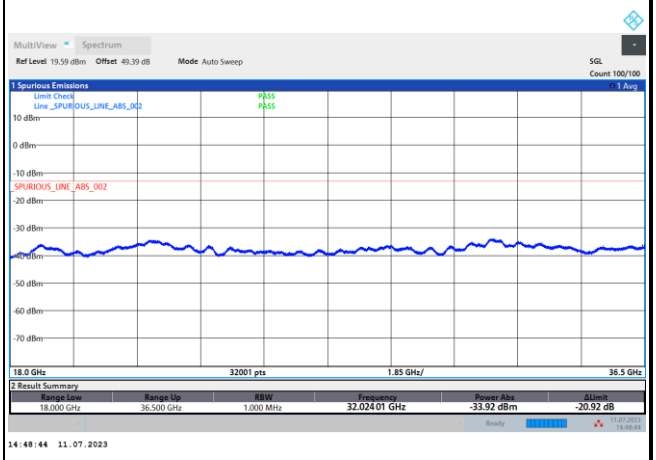
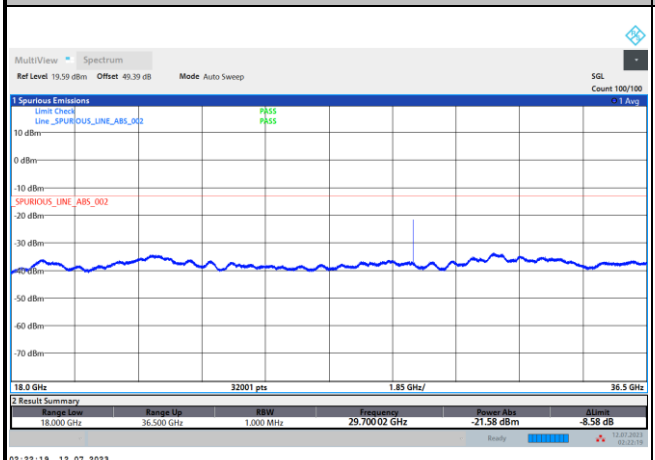
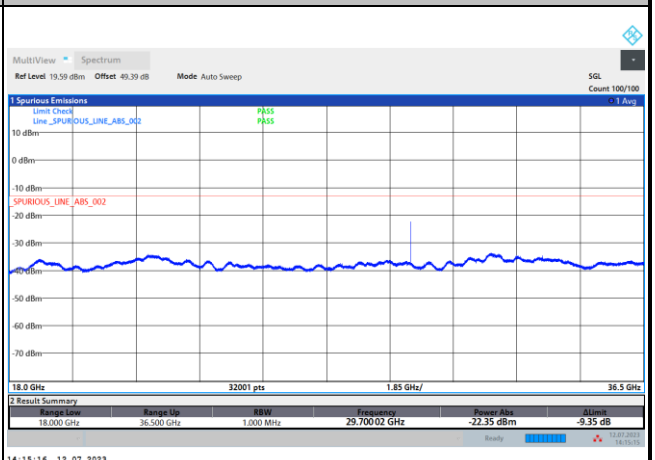
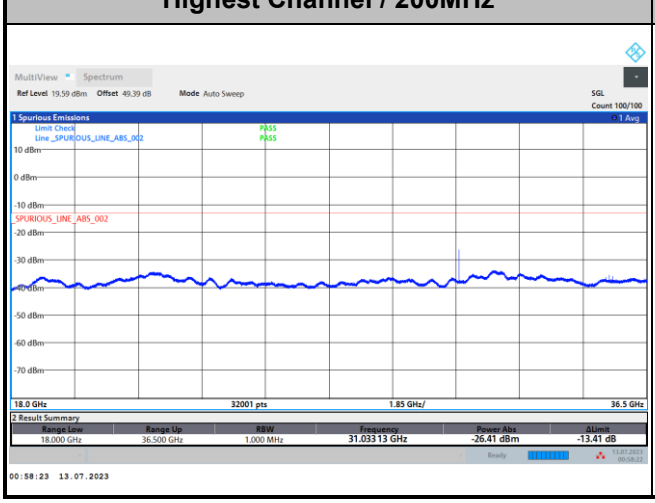
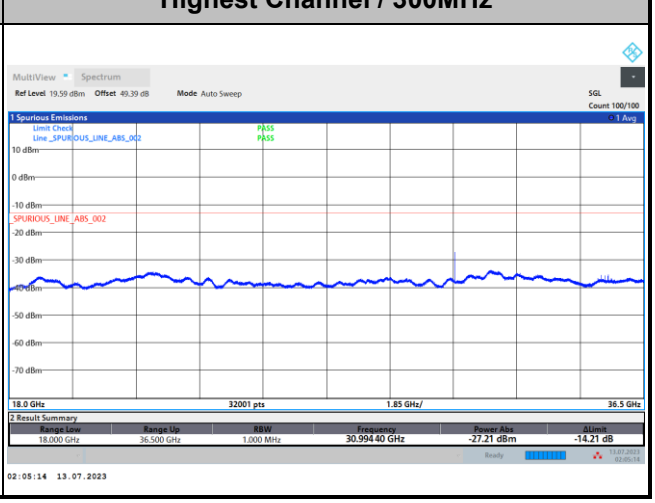
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module A

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 50MHz	**Lowest Channel / 100MHz**
	
Middle Channel / 50MHz	**Middle Channel / 100MHz**
	
Highest Channel / 50MHz	**Highest Channel / 100MHz**
	

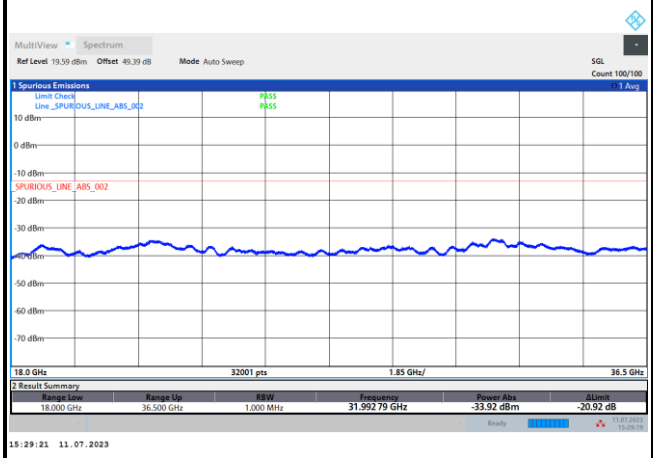
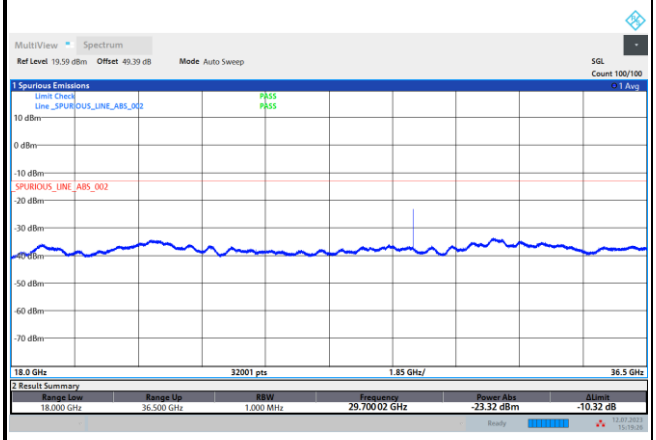
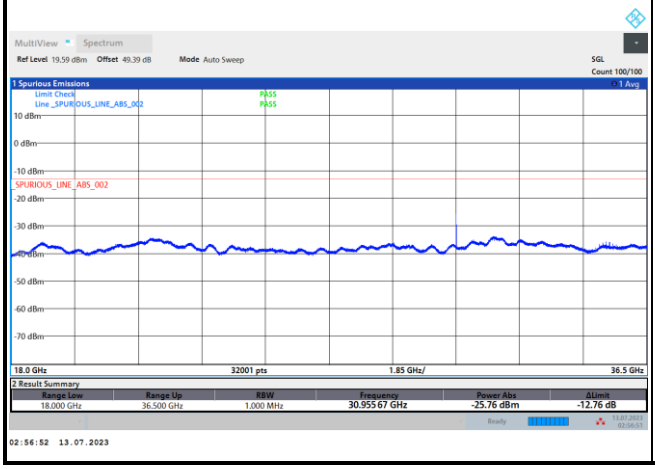
Remark: In band and out of band frequencies are omitted.

DFT-s-OFDM Module A

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 200MHz	**Lowest Channel / 300MHz**
	
Middle Channel / 200MHz	**Middle Channel / 300MHz**
	
Highest Channel / 200MHz	**Highest Channel / 300MHz**
	

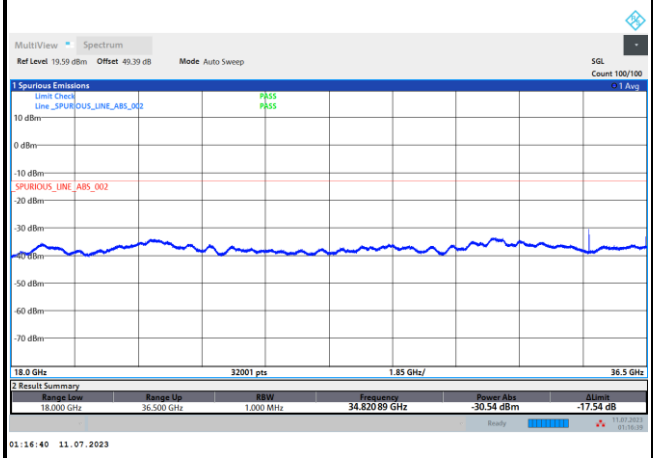
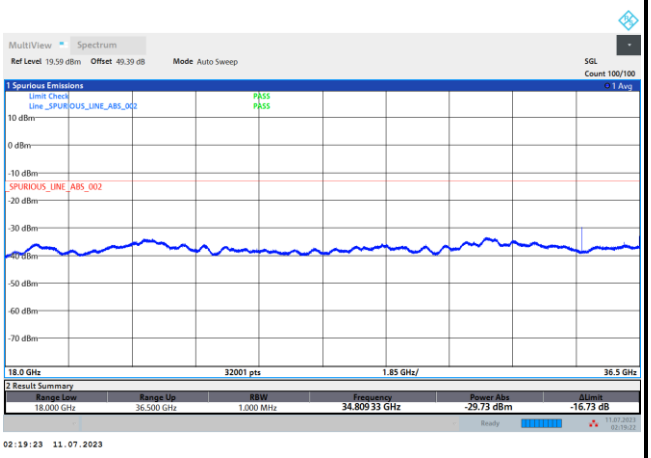
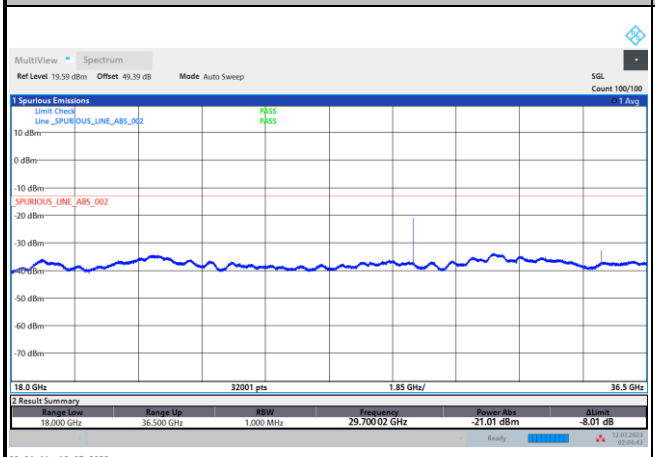
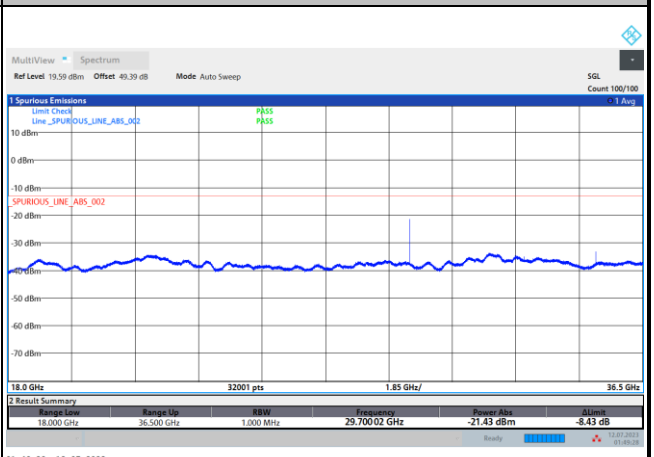
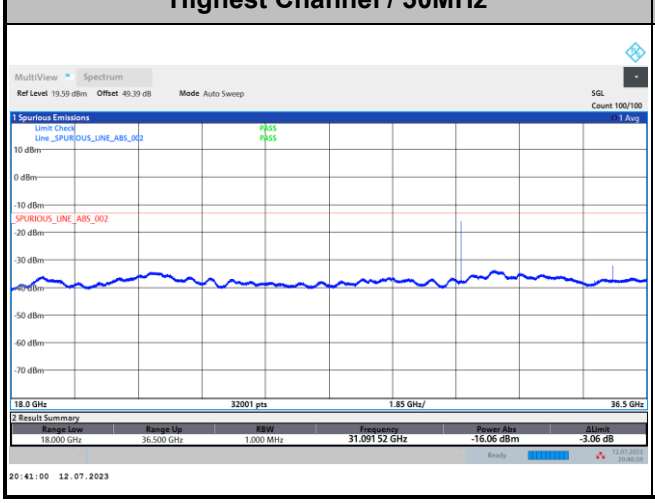
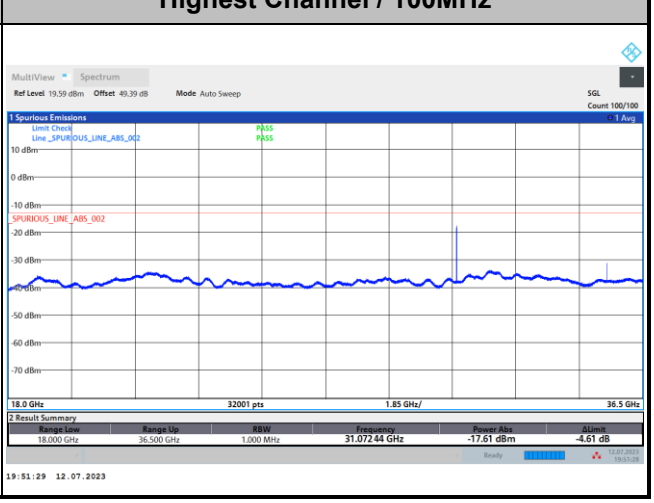
Remark: In band and out of band frequencies are omitted.

DFT-s-OFDM Module A

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

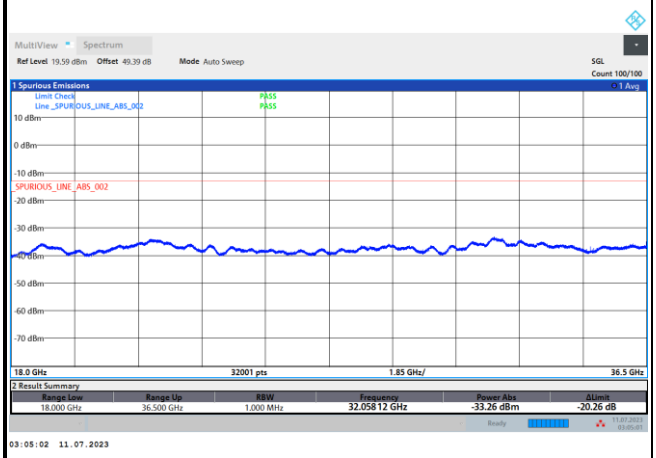
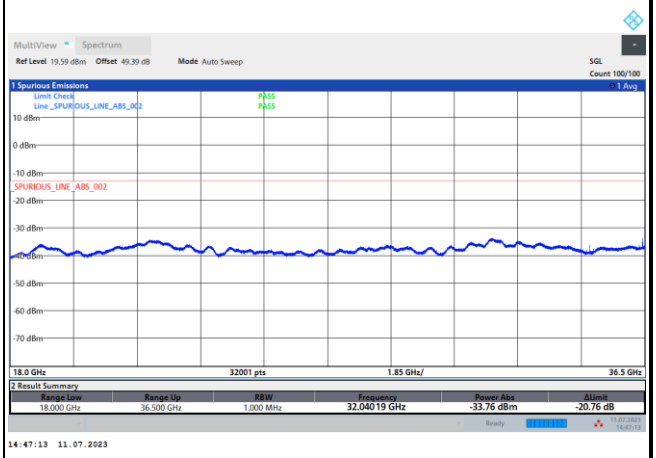
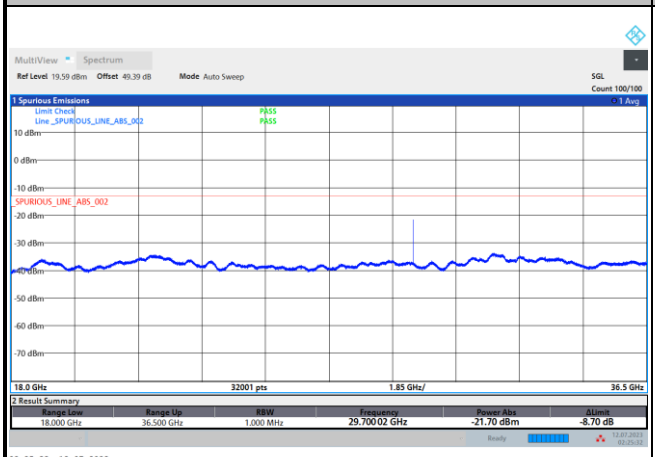
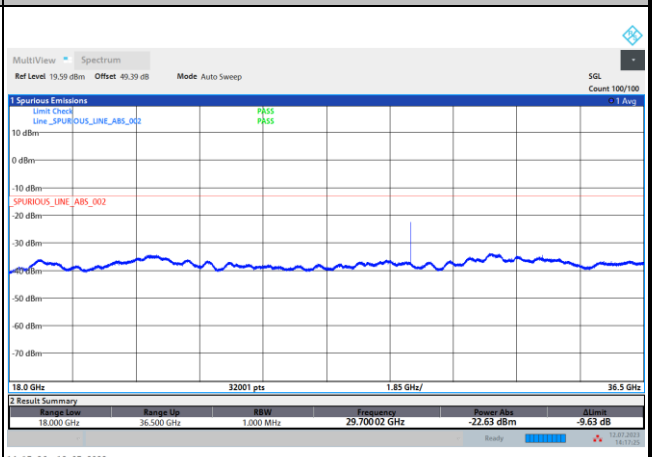
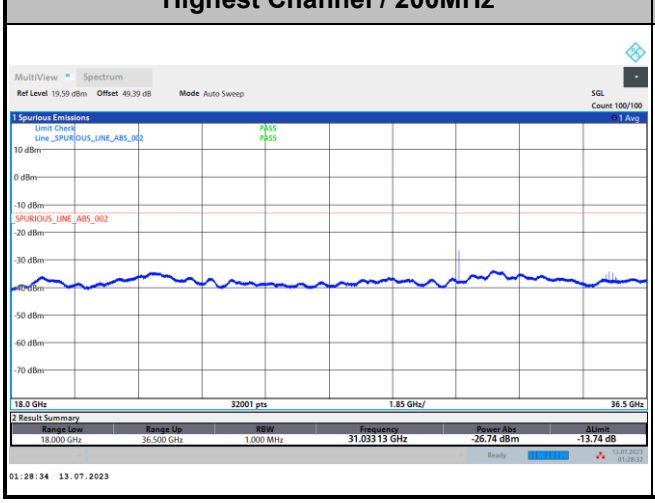
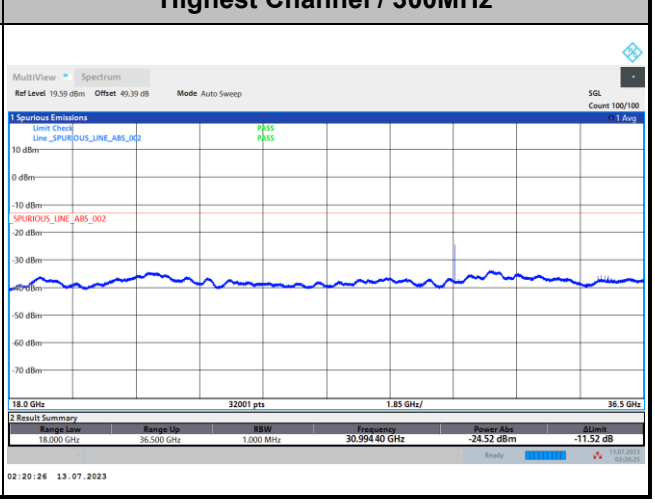
Remark: In band and out of band frequencies are omitted.

CP-OFDM Module A

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 50MHz	Lowest Channel / 100MHz
	
Middle Channel / 50MHz	Middle Channel / 100MHz
	
Highest Channel / 50MHz	Highest Channel / 100MHz
	

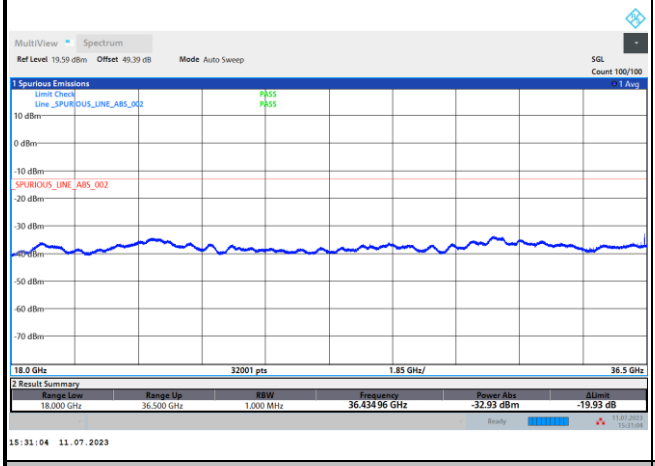
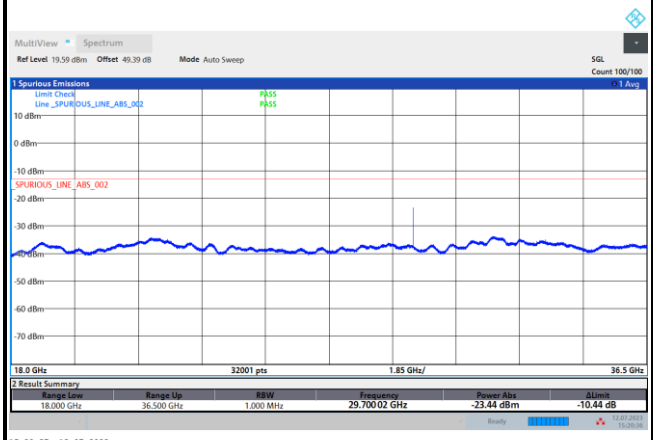
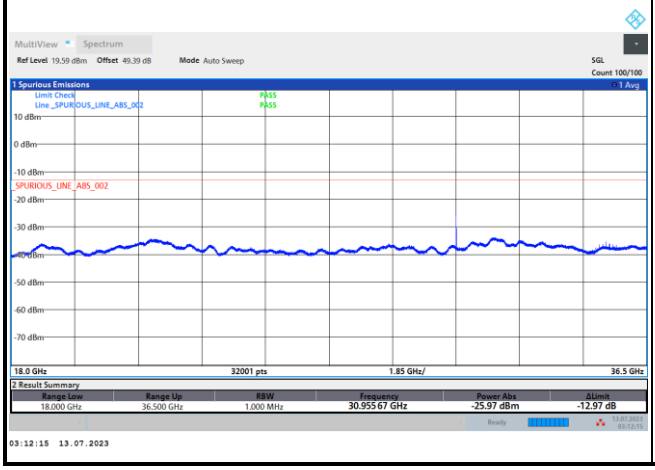
Remark: In band and out of band frequencies are omitted.

CP-OFDM Module A

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 200MHz	Lowest Channel / 300MHz
	
Middle Channel / 200MHz	Middle Channel / 300MHz
	
Highest Channel / 200MHz	Highest Channel / 300MHz
	

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

CP-OFDM Module A

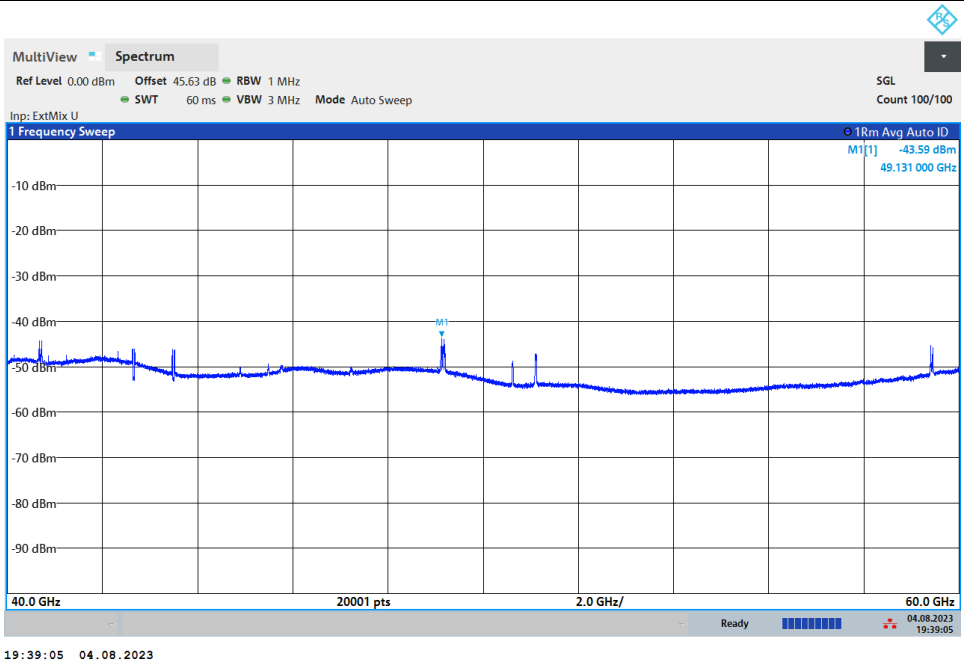
NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

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

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.

Only the noise floor is reported.

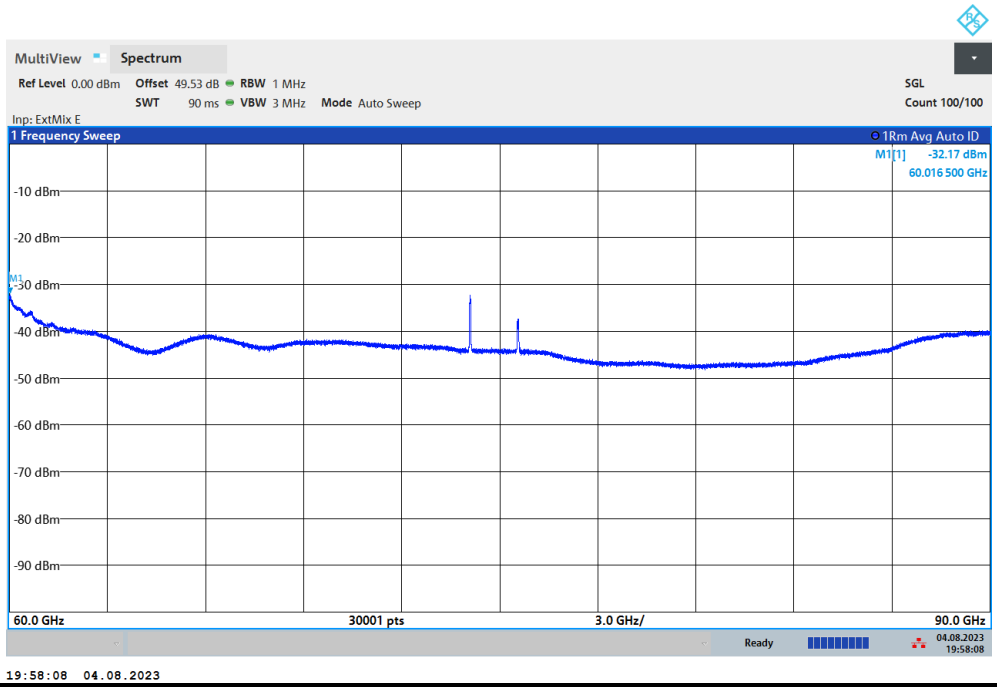
NR Band n260
(40GHz-60GHz)



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)

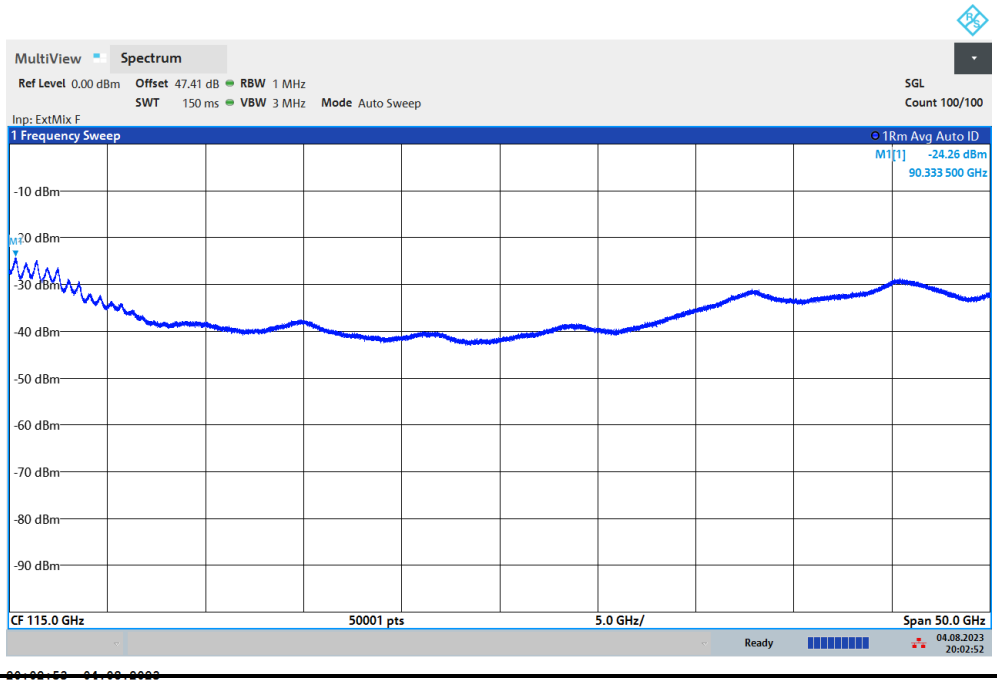
NR Band n260
(60GHz-90GHz)



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)

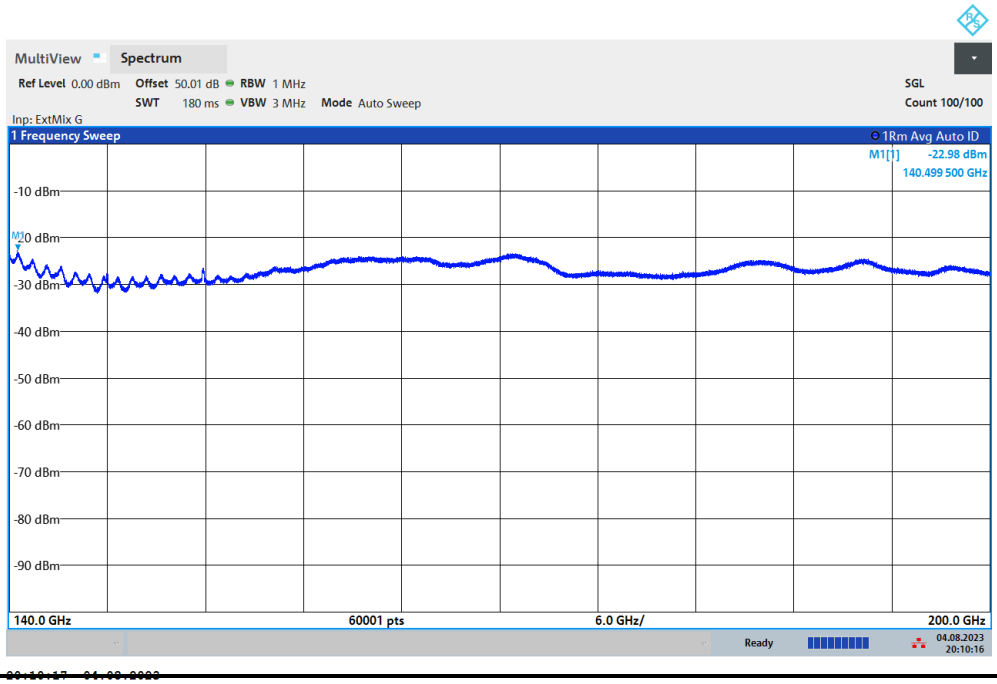
NR Band n260
(90GHz-140GHz)



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

= 50.80 + 0.43 + 107 + 20log(0.5) – 104.8 = 47.41 (dB)

NR Band n260
(140GHz-200GHz)



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

= 53.4 + 0.43 + 107 + 20log(0.5) – 104.8 = 50.01(dB)

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	38.499945	92.000	2.390	Pass
40	Normal Voltage	38.499985	52.000	1.351	
30	Normal Voltage	38.50002	17.000	0.442	
20(Ref.)	Normal Voltage	38.500037	0.000	0.000	
10	Normal Voltage	38.500058	-21.000	0.545	
0	Normal Voltage	38.500138	-101.000	2.623	
-10	Normal Voltage	38.500186	-149.000	3.870	
-20	Normal Voltage	38.500182	-145.000	3.766	
-30	Normal Voltage	38.500135	-98.000	2.545	
20	Maximum Voltage	38.500031	6.000	0.156	
20	Normal Voltage	38.500039	-2.000	0.052	
20	Battery End Point	38.500035	2.000	0.052	

Note:

1. Normal Voltage = 3.87 V.；Battery End Point (BEP) = 3.6 V.；Maximum Voltage = 4.48 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	46.02	46.13	45.92	91.51	91.33	91.32	191.33	191.26	190.64
Middle CH	45.96	46.11	45.96	91.61	91.35	91.37	191.16	191.06	190.35
Highest CH	45.95	45.98	45.84	91.55	91.31	91.4	191.07	190.85	190.16

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	290.39	290.07	289.19	389.06	388.62	388.21
Middle CH	290.59	290.09	289.63	389.44	389.17	388.3
Highest CH	289.80	289.47	288.60	390.2	390.1	389

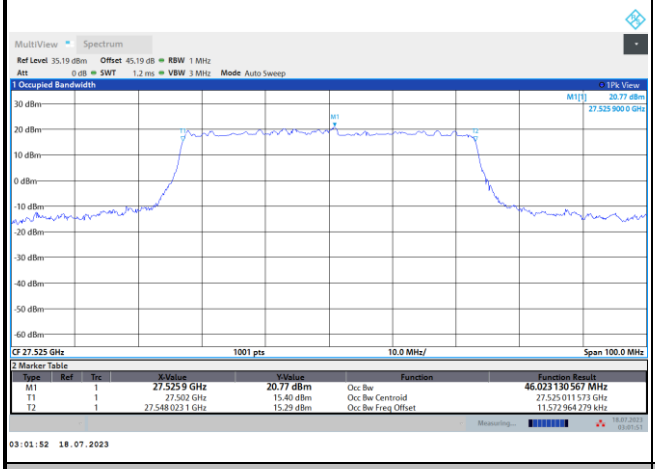
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.13	94.14	193.76
Middle CH	46.33	94.32	194.05
Highest CH	46.29	94.05	193.82

Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	293.46	394.27
Middle CH	294.35	393.79
Highest CH	293.28	393.76

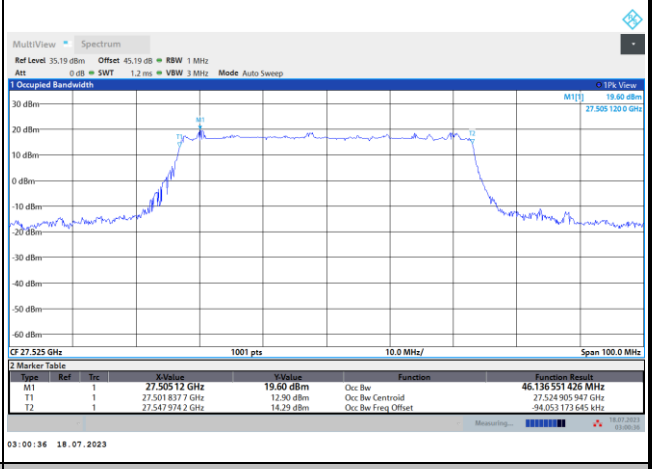
DFT-s-OFDM Module A

NR Band n261

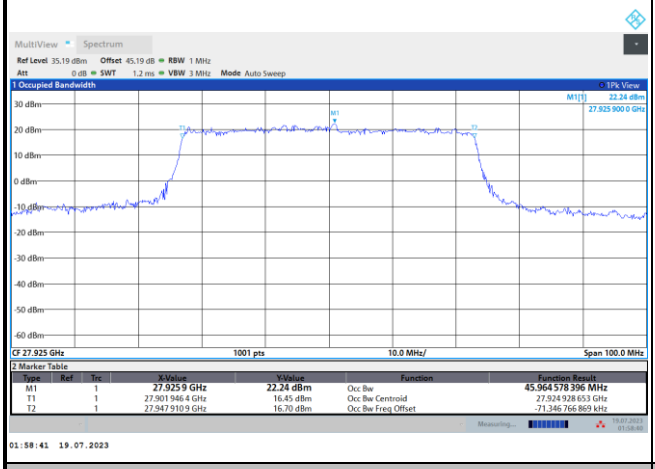
Lowest Channel / 50MHz / QPSK



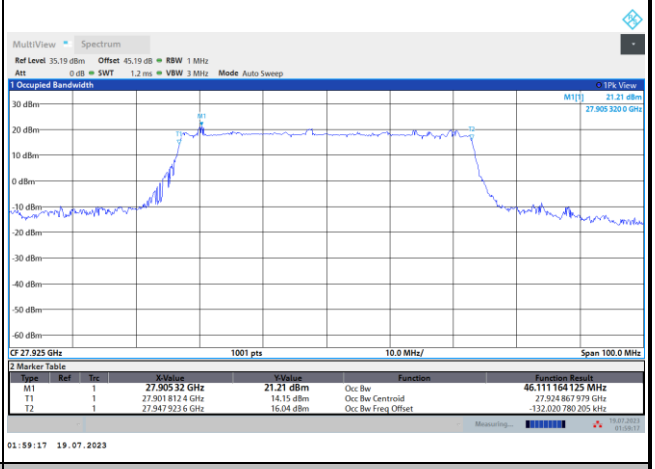
Lowest Channel / 50MHz / 16QAM



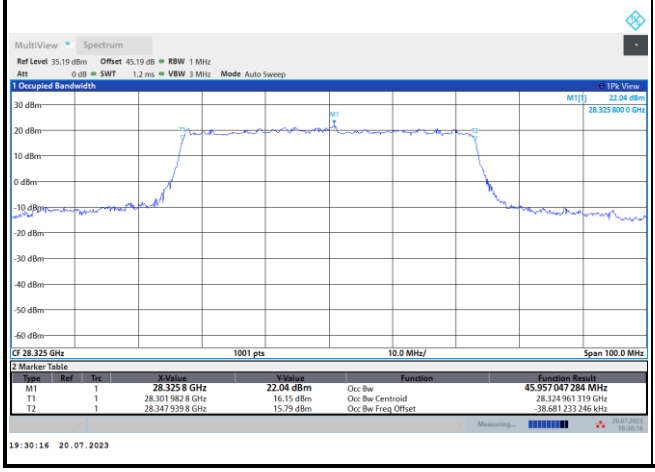
Middle Channel / 50MHz / QPSK



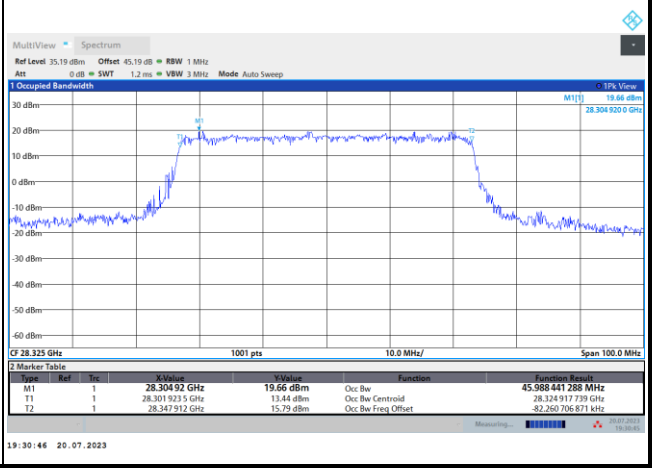
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



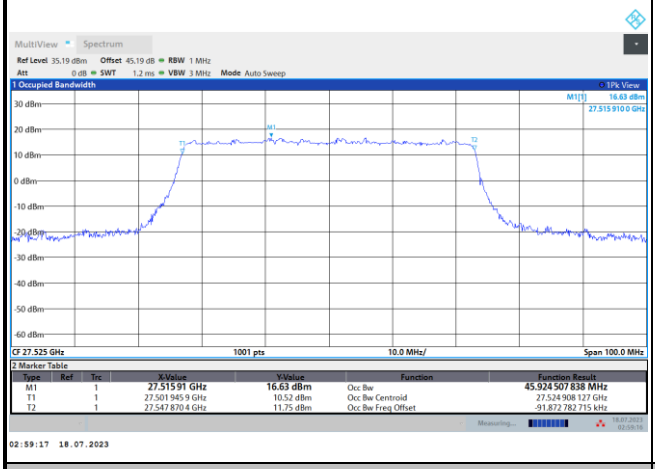
Highest Channel / 50MHz / 16QAM



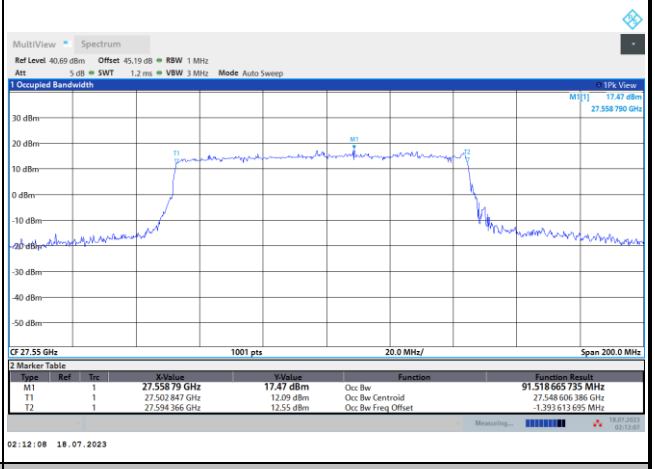
DFT-s-OFDM Module A

NR Band n261

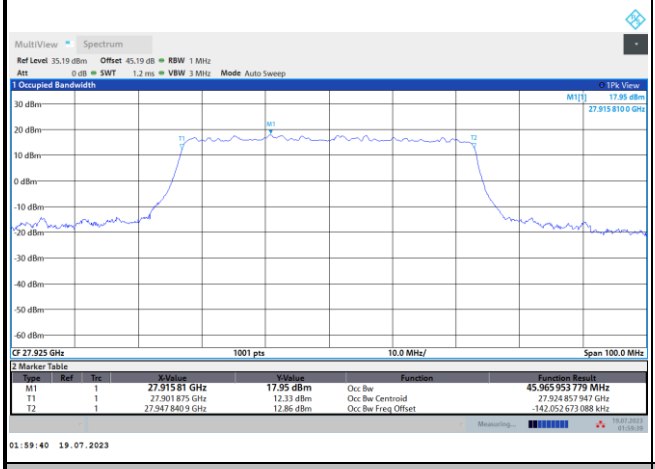
Lowest Channel / 50MHz / 64QAM



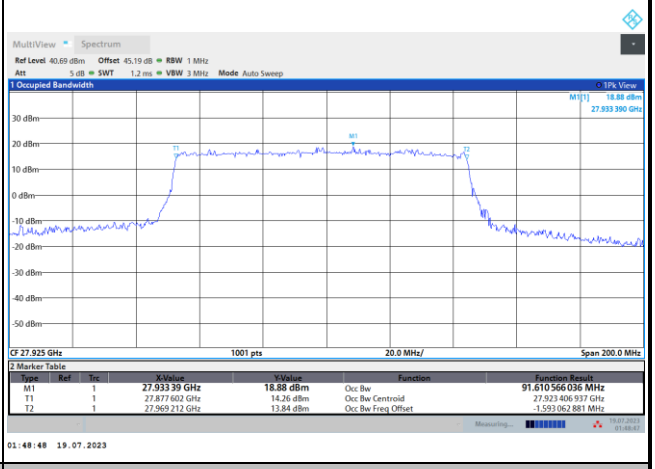
Lowest Channel / 100MHz / QPSK



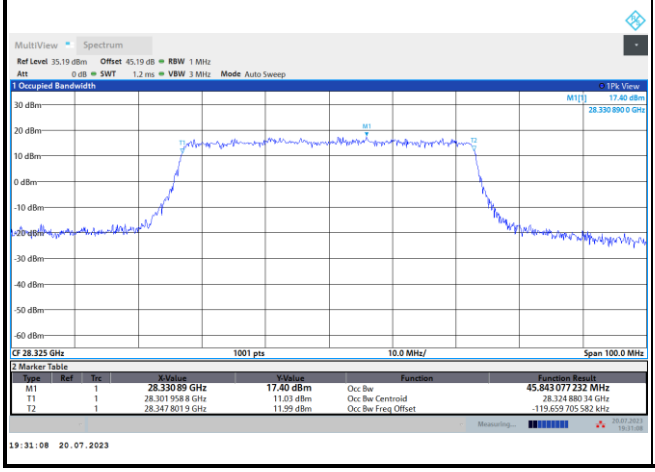
Middle Channel / 50MHz / 64QAM



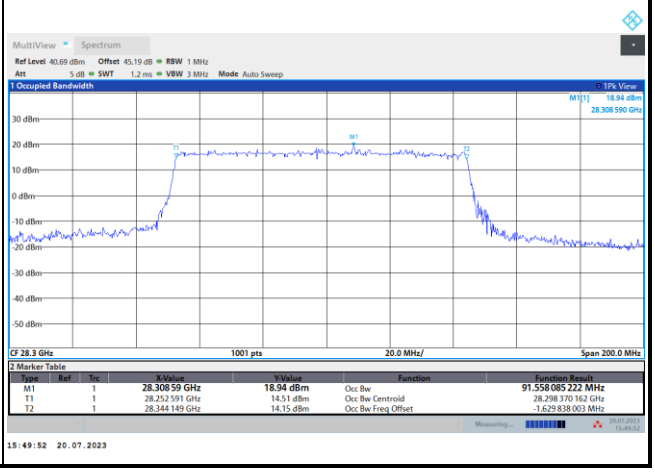
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



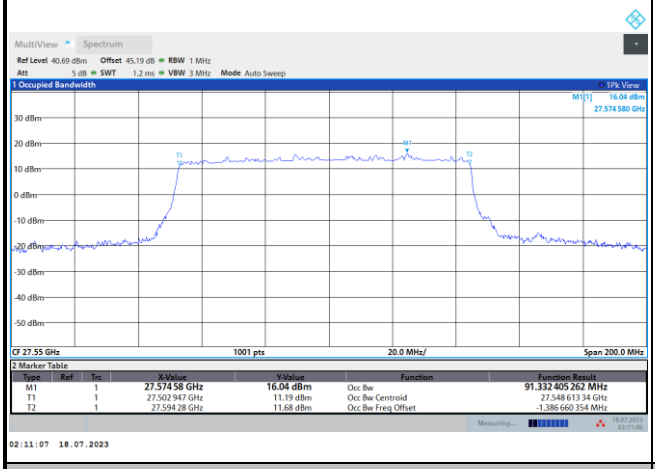
Highest Channel / 100MHz / QPSK



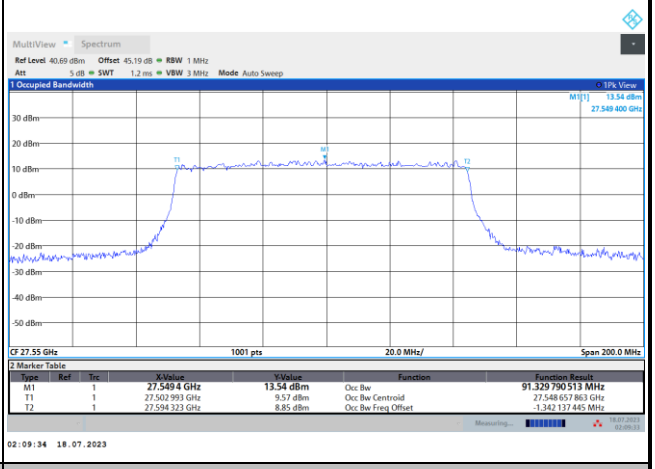
DFT-s-OFDM Module A

NR Band n261

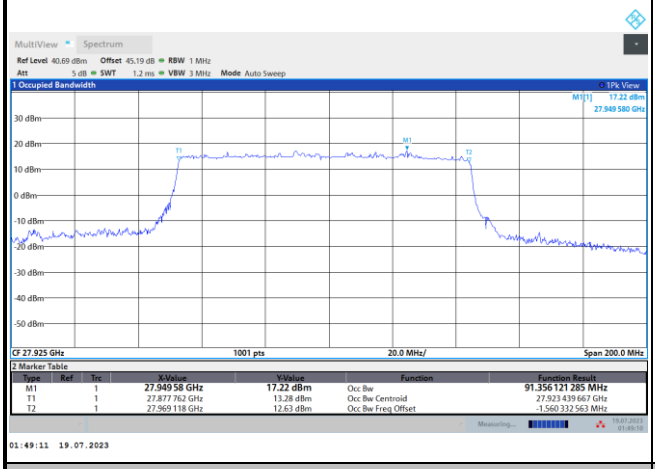
Lowest Channel / 100MHz / 16QAM



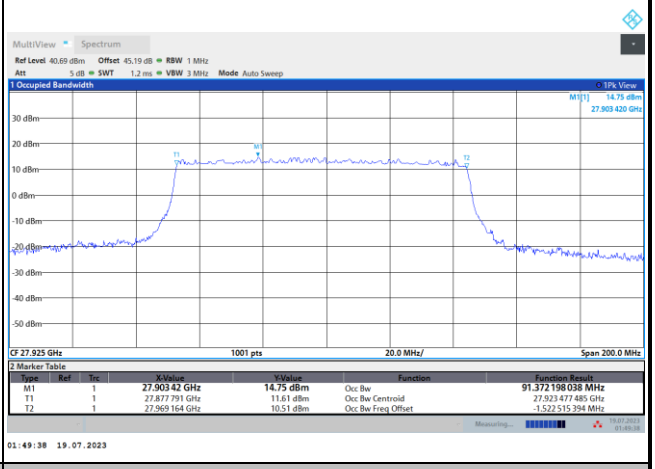
Lowest Channel / 100MHz / 64QAM



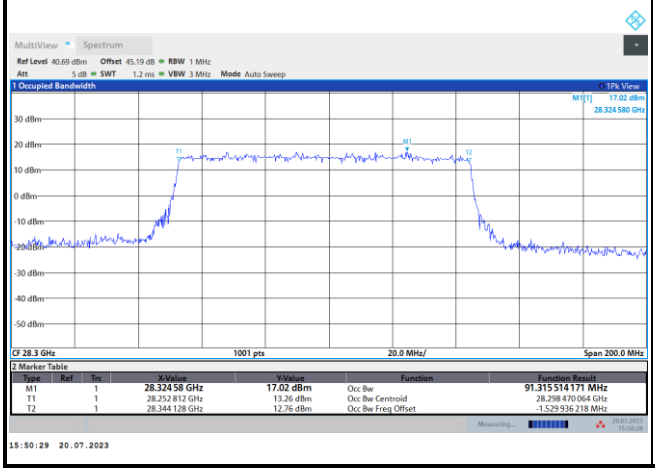
Middle Channel / 100MHz / 16QAM



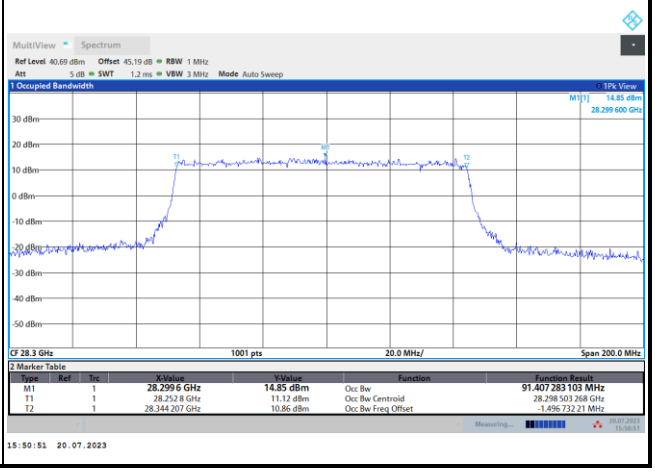
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



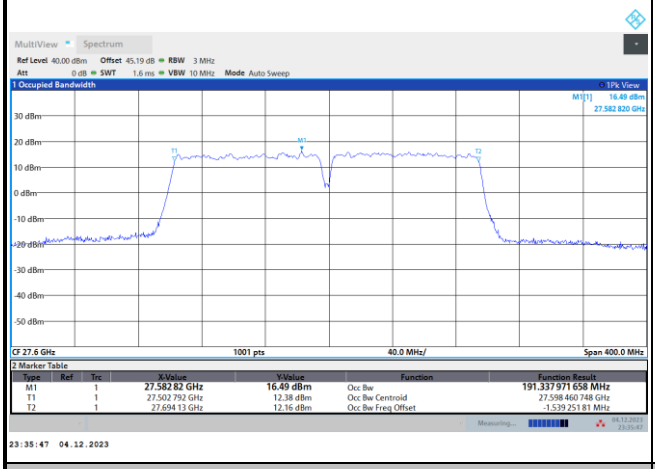
Highest Channel / 100MHz / 64QAM



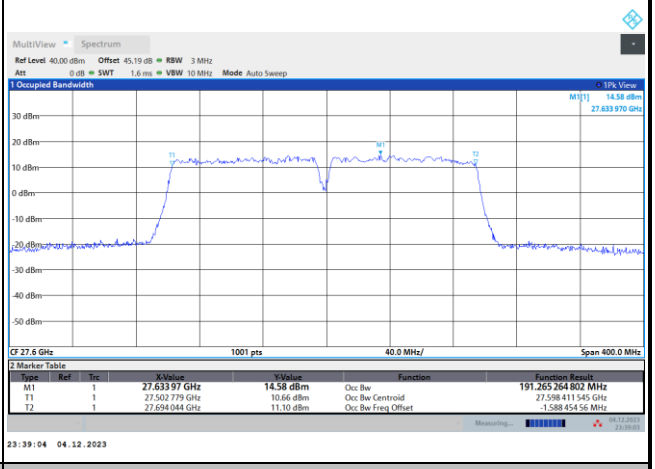
DFT-s-OFDM Module A

NR Band n261

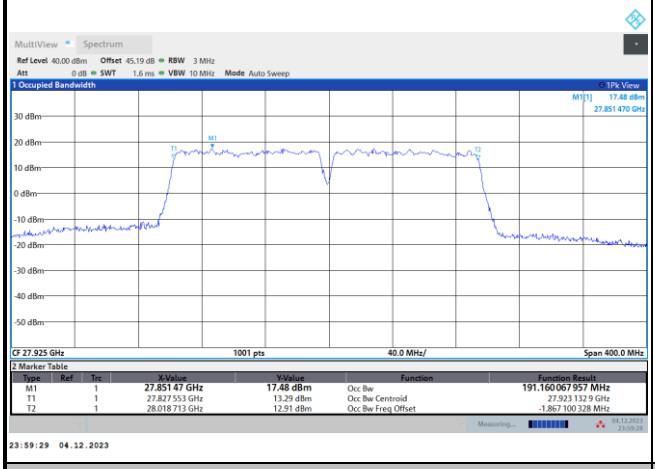
Lowest Channel / 200MHz / QPSK



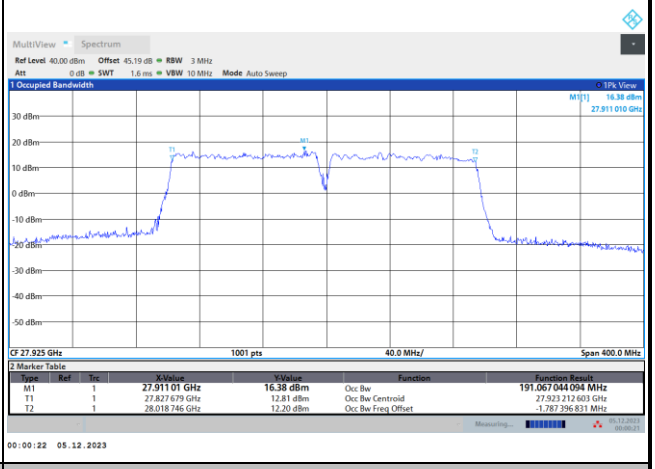
Lowest Channel / 200MHz / 16QAM



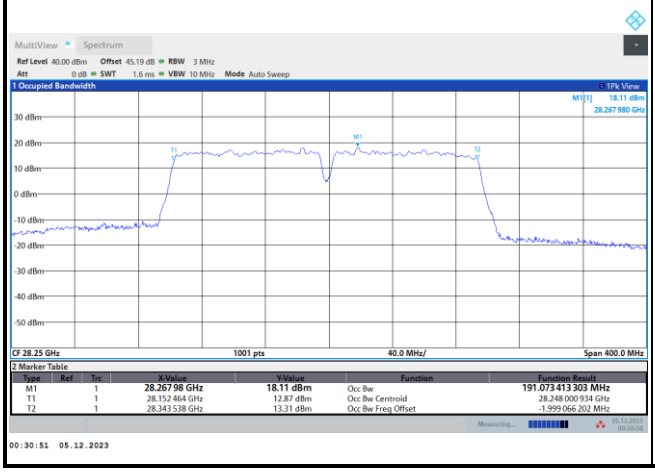
Middle Channel / 200MHz / QPSK



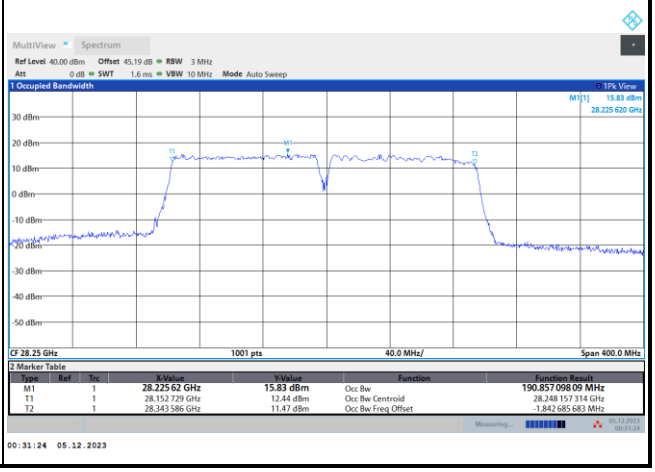
Middle Channel / 200MHz / 16QAM



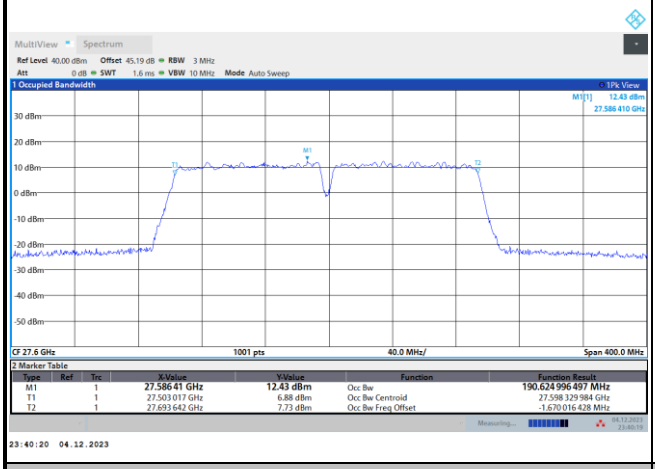
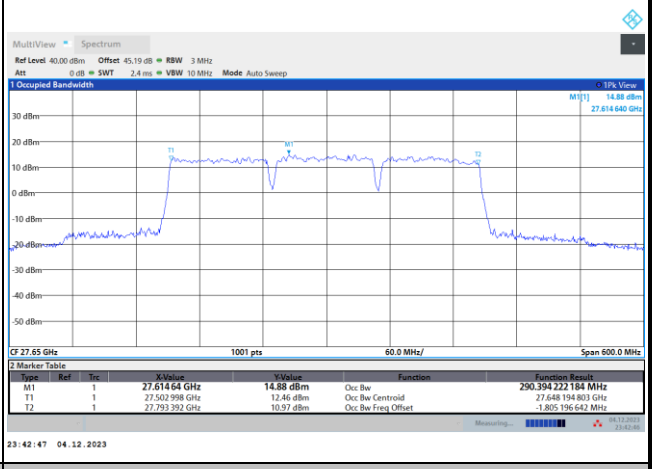
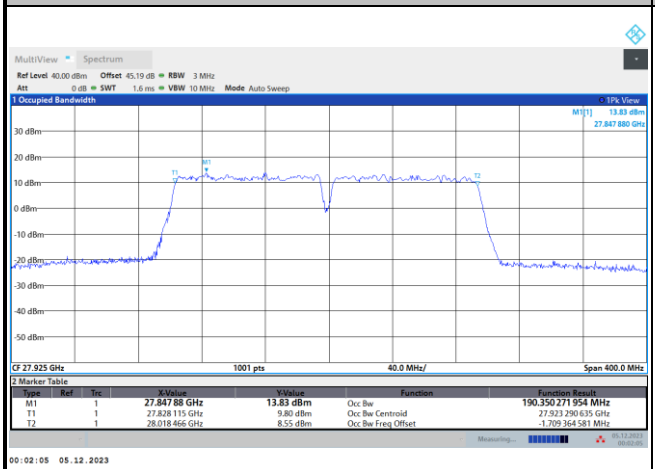
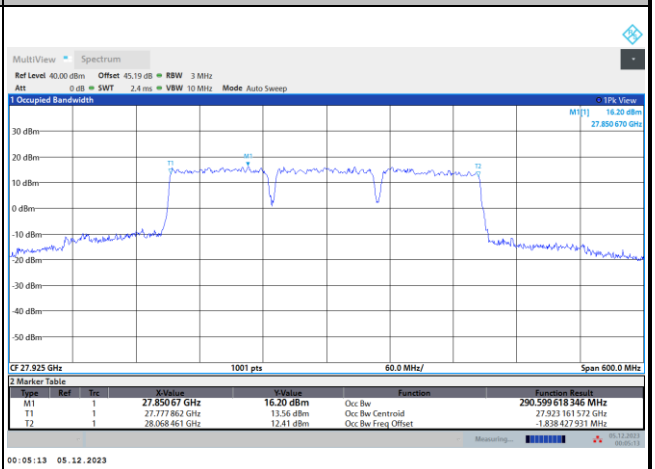
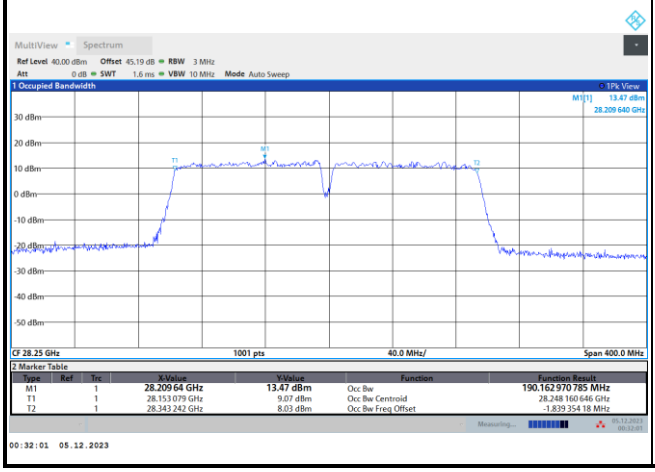
Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM



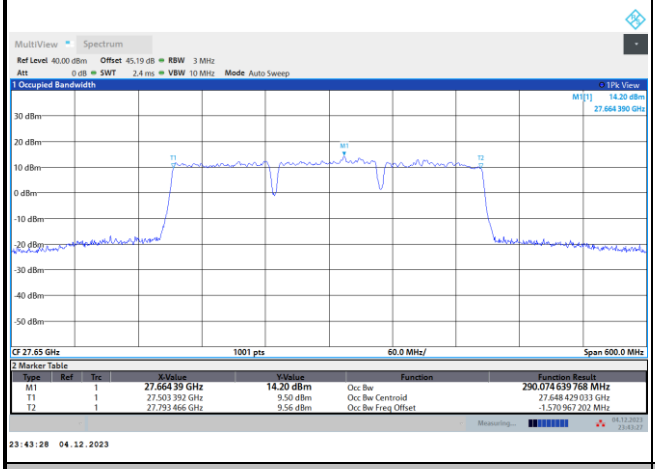
DFT-s-OFDM Module A

NR Band 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

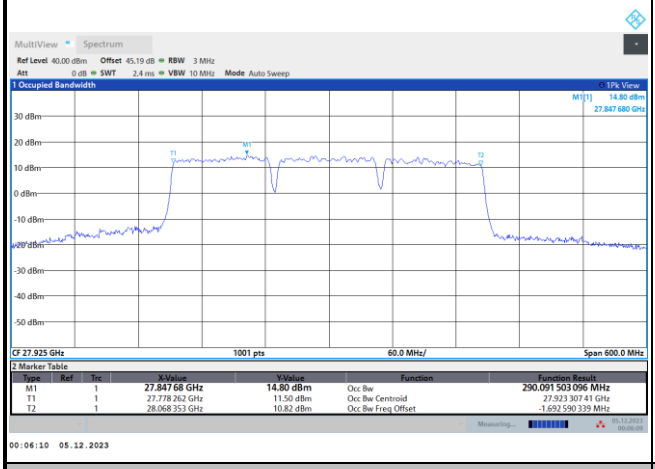
NR Band n261

Lowest Channel / 300MHz / 16QAM

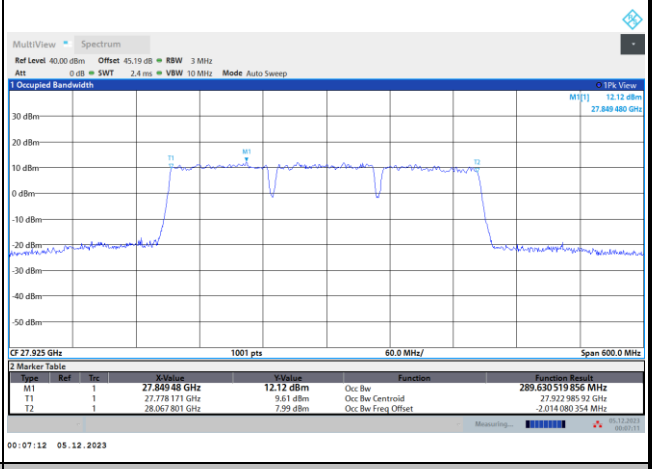


Lowest Channel / 300MHz / 64QAM

Middle Channel / 300MHz / 16QAM

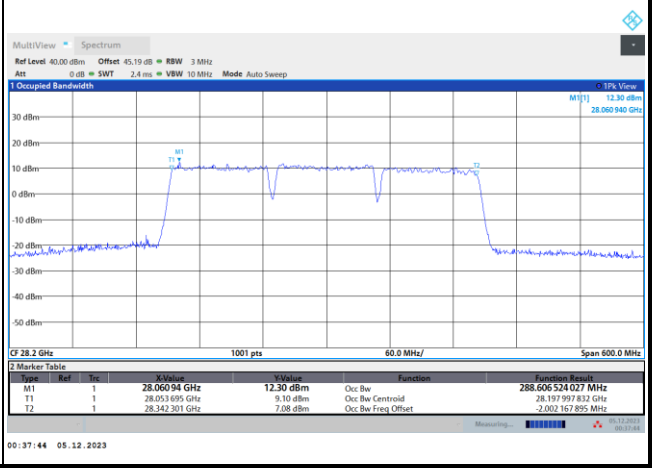


Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM

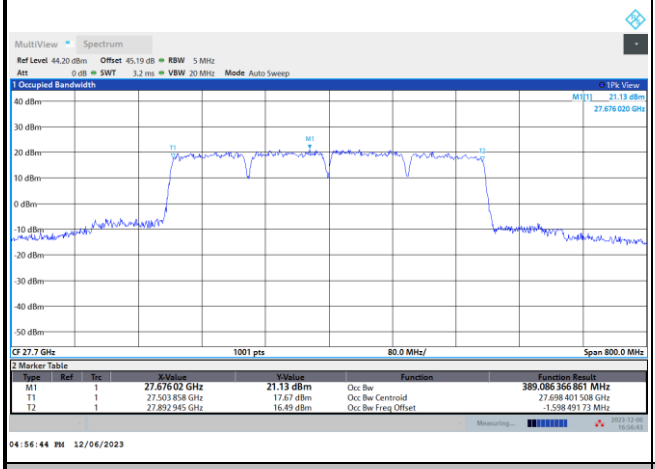
Highest Channel / 300MHz / 64QAM



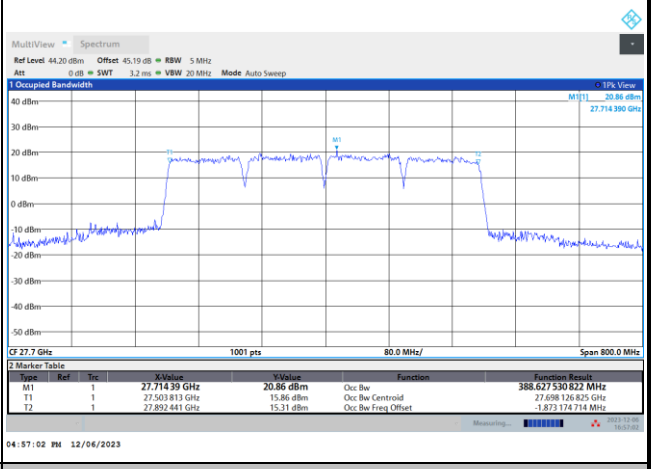
DFT-s-OFDM Module A

NR Band n261

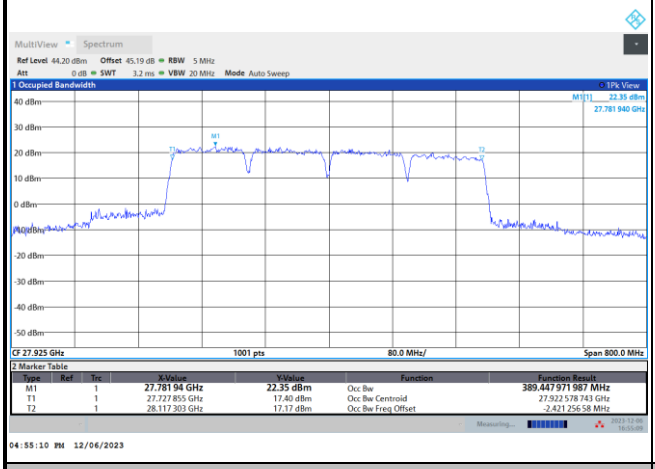
Lowest Channel / 400MHz / QPSK



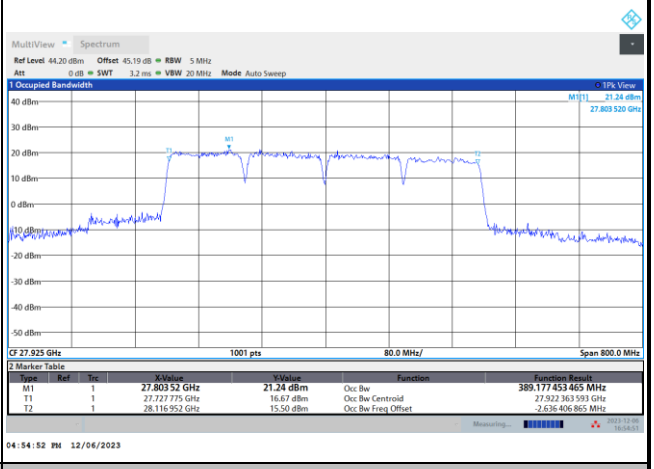
Lowest Channel / 400MHz / 16QAM



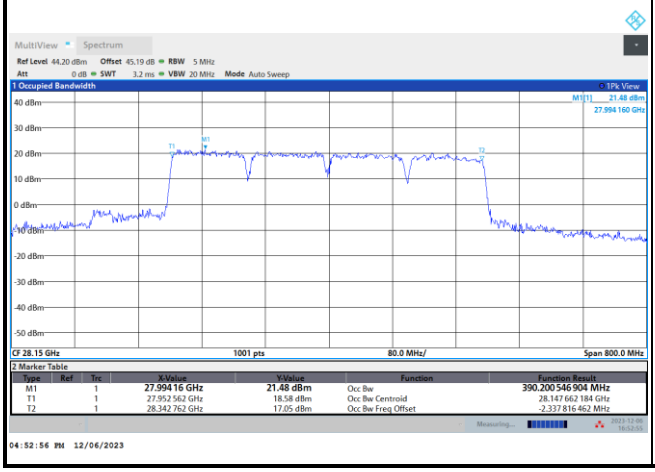
Middle Channel / 400MHz / QPSK



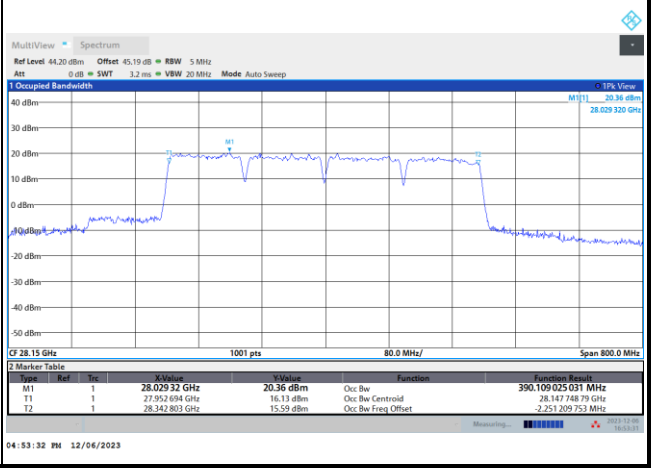
Middle Channel / 400MHz / 16QAM



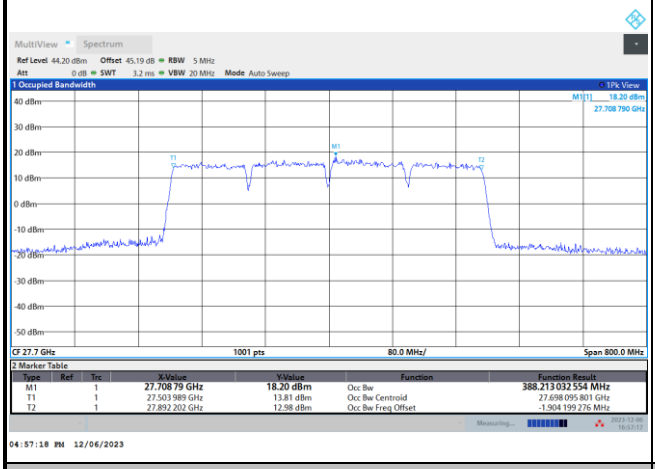
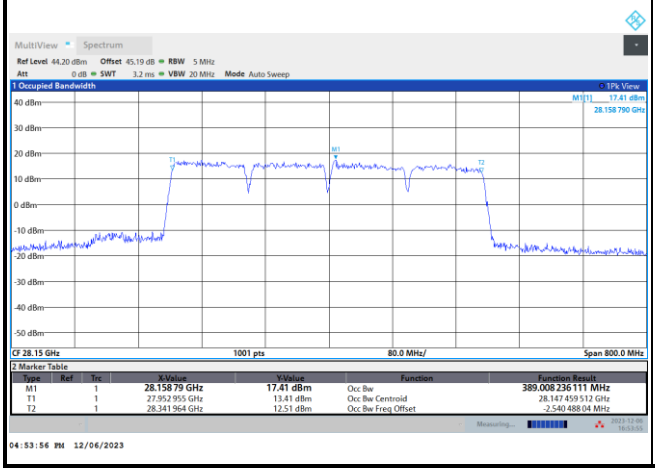
Highest Channel / 400MHz / QPSK



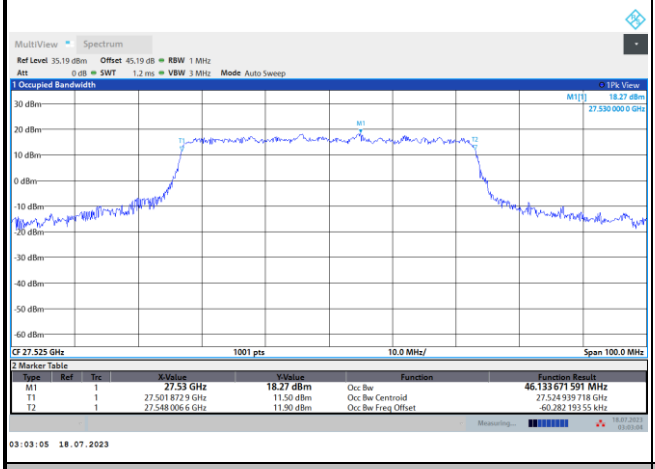
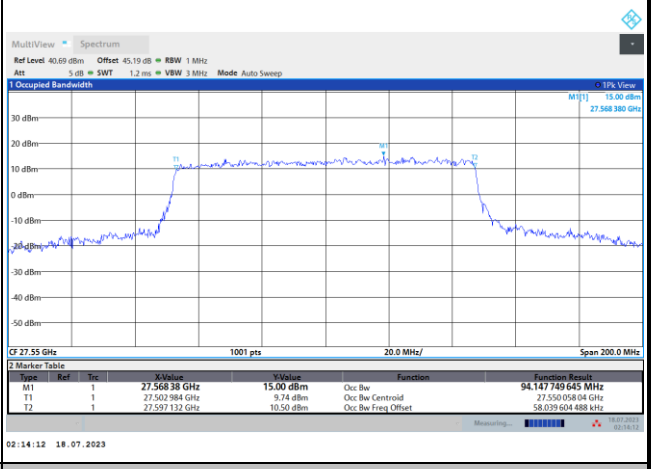
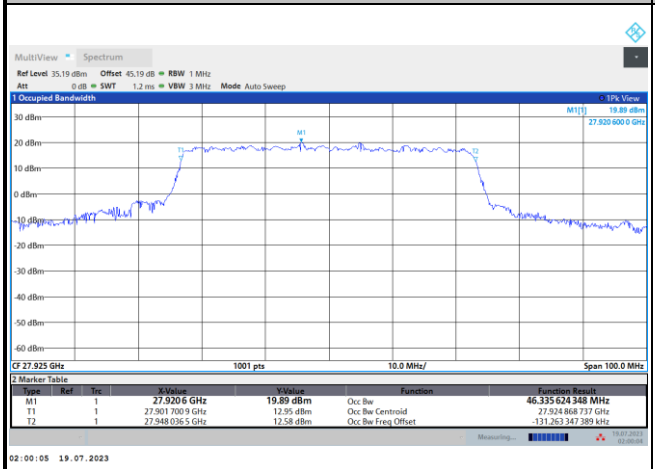
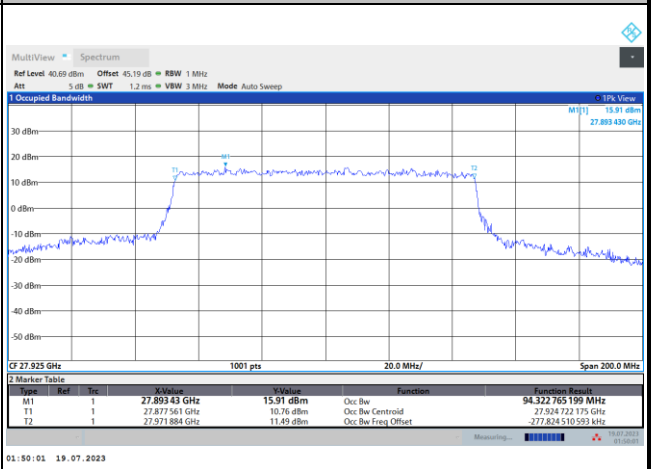
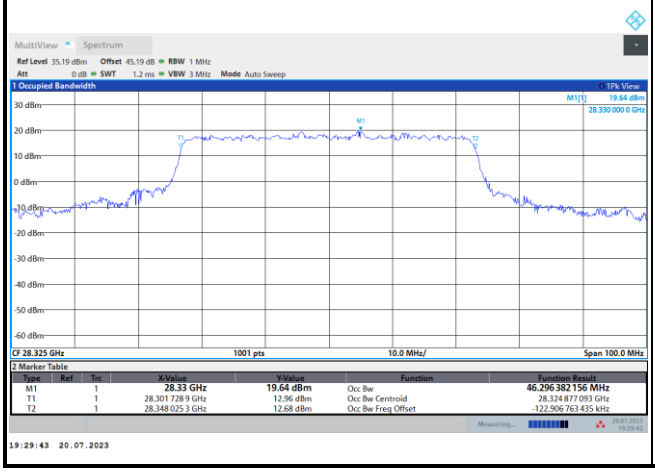
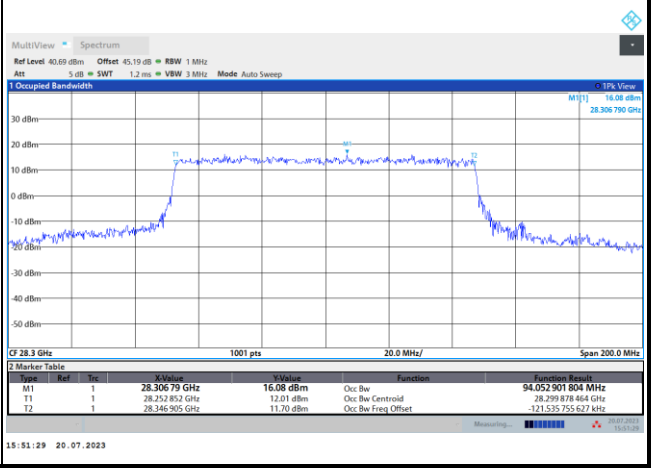
Highest Channel / 400MHz / 16QAM



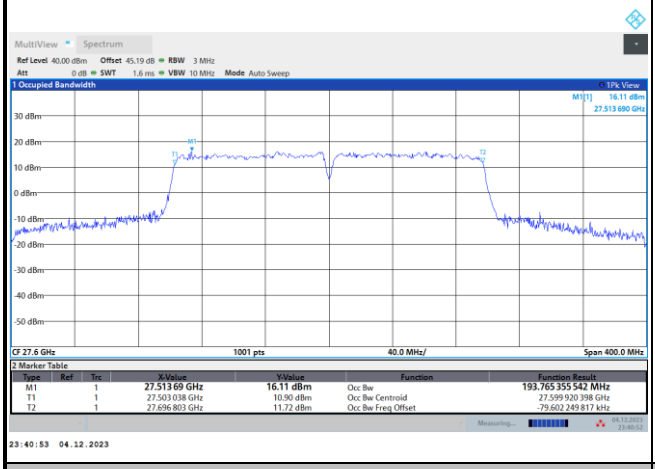
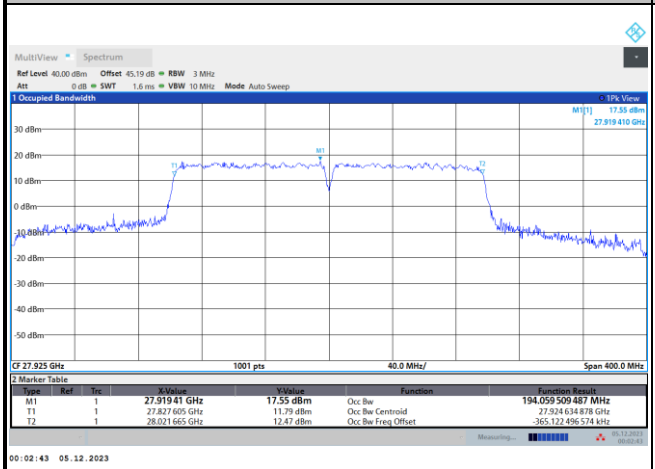
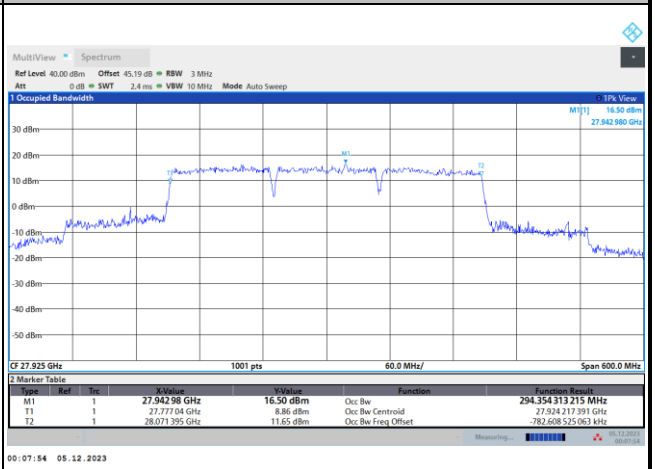
DFT-s-OFDM Module A

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
	

CP-OFDM Module A

NR Band n261	
Lowest Channel / 200MHz / QPSK	**Lowest Channel / 300MHz / QPSK**
	
Middle Channel / 200MHz / QPSK	**Middle Channel / 300MHz / QPSK**
	
Highest Channel / 200MHz / QPSK	**Highest Channel / 300MHz / QPSK**