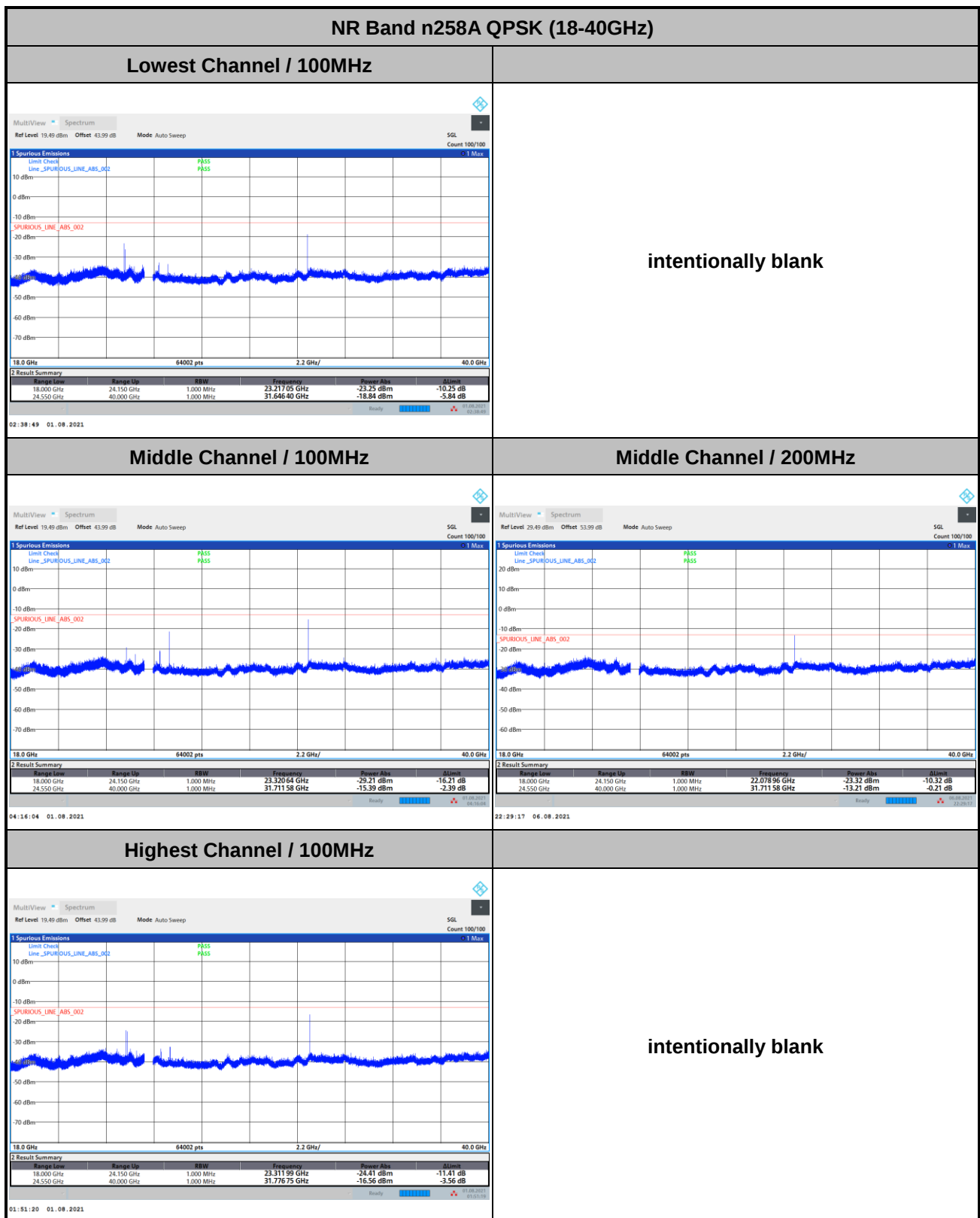




Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module B



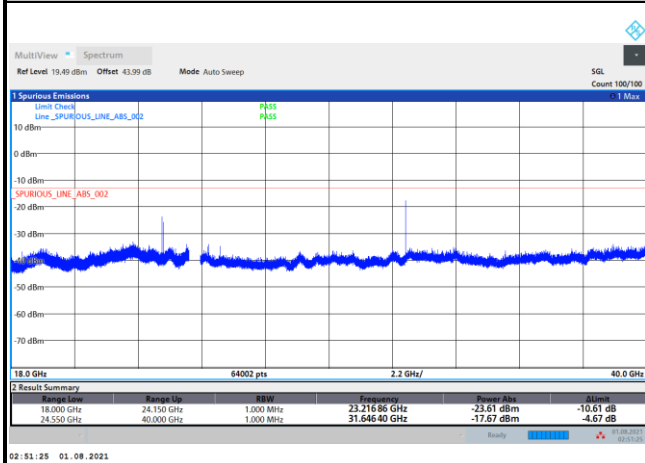
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module B

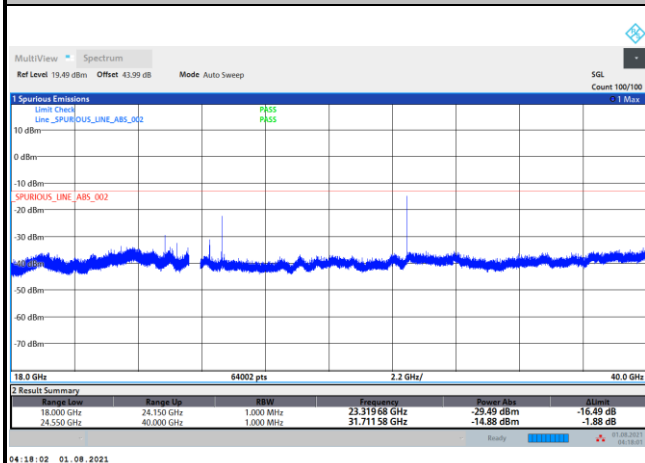
NR Band n258A QPSK (18-40GHz)

Lowest Channel / 100MHz

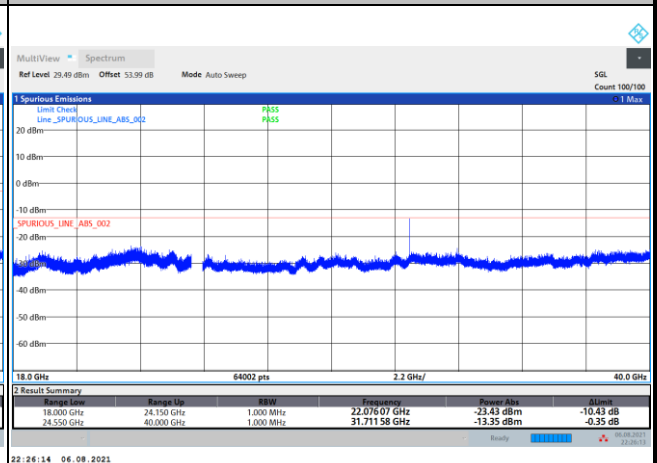


intentionally blank

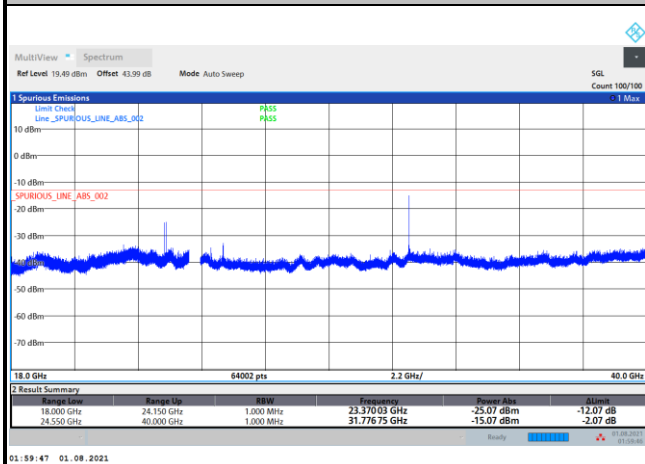
Middle Channel / 100MHz



Middle Channel / 200MHz



Highest Channel / 100MHz

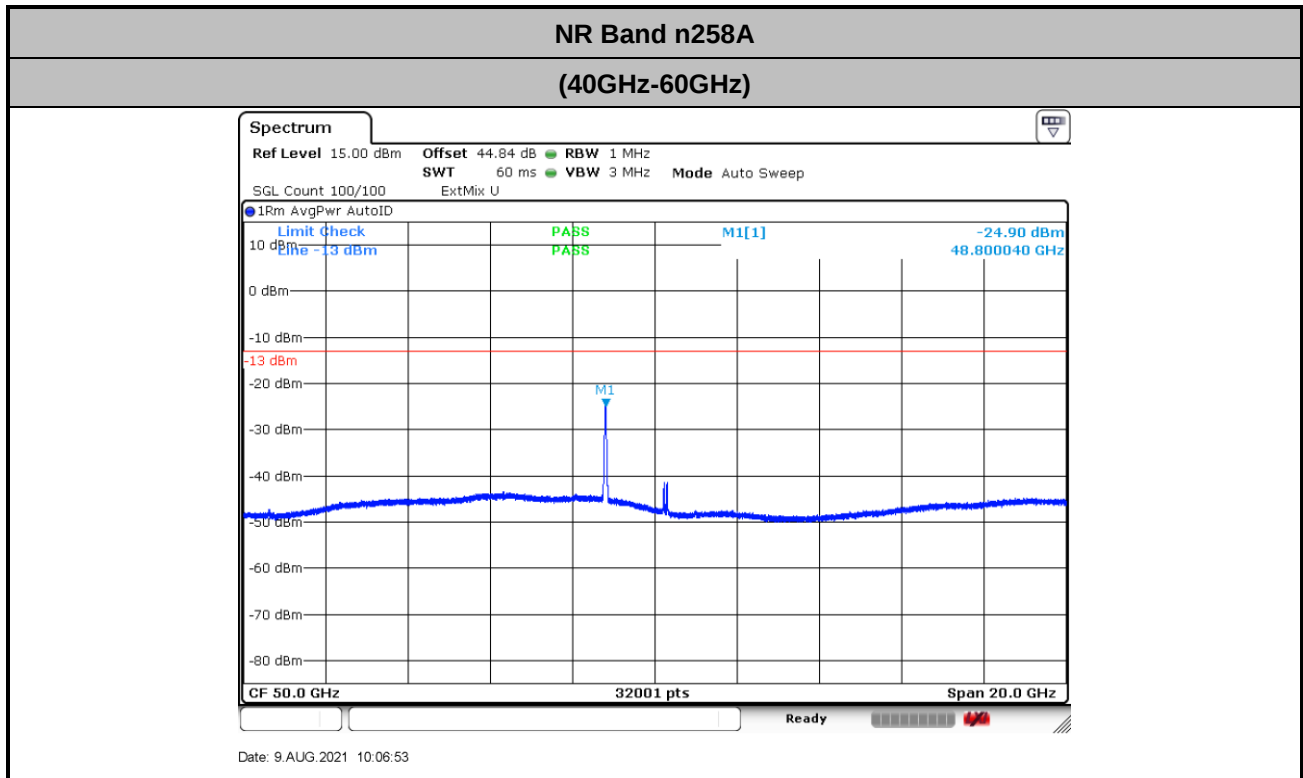


intentionally blank

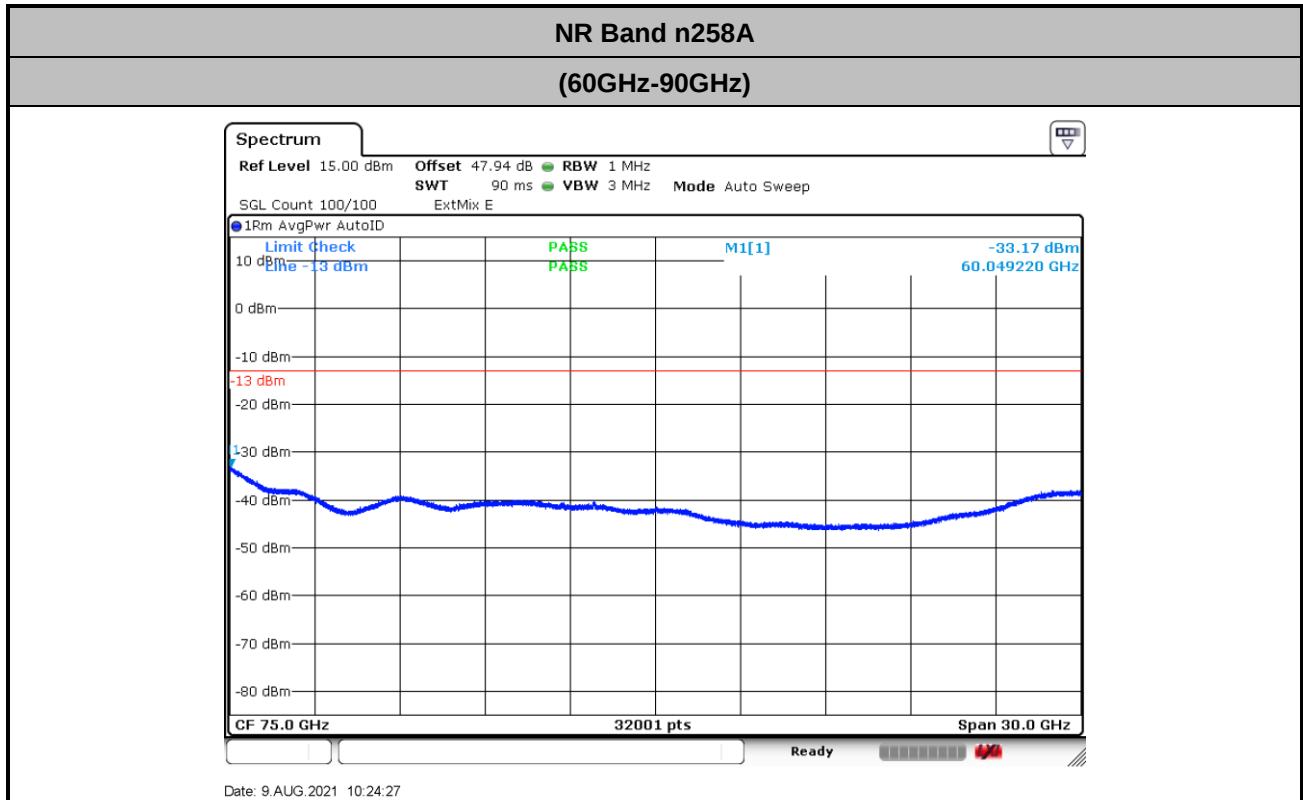
Remark: In band and out of band frequencies that has reported in previous results are omitted.



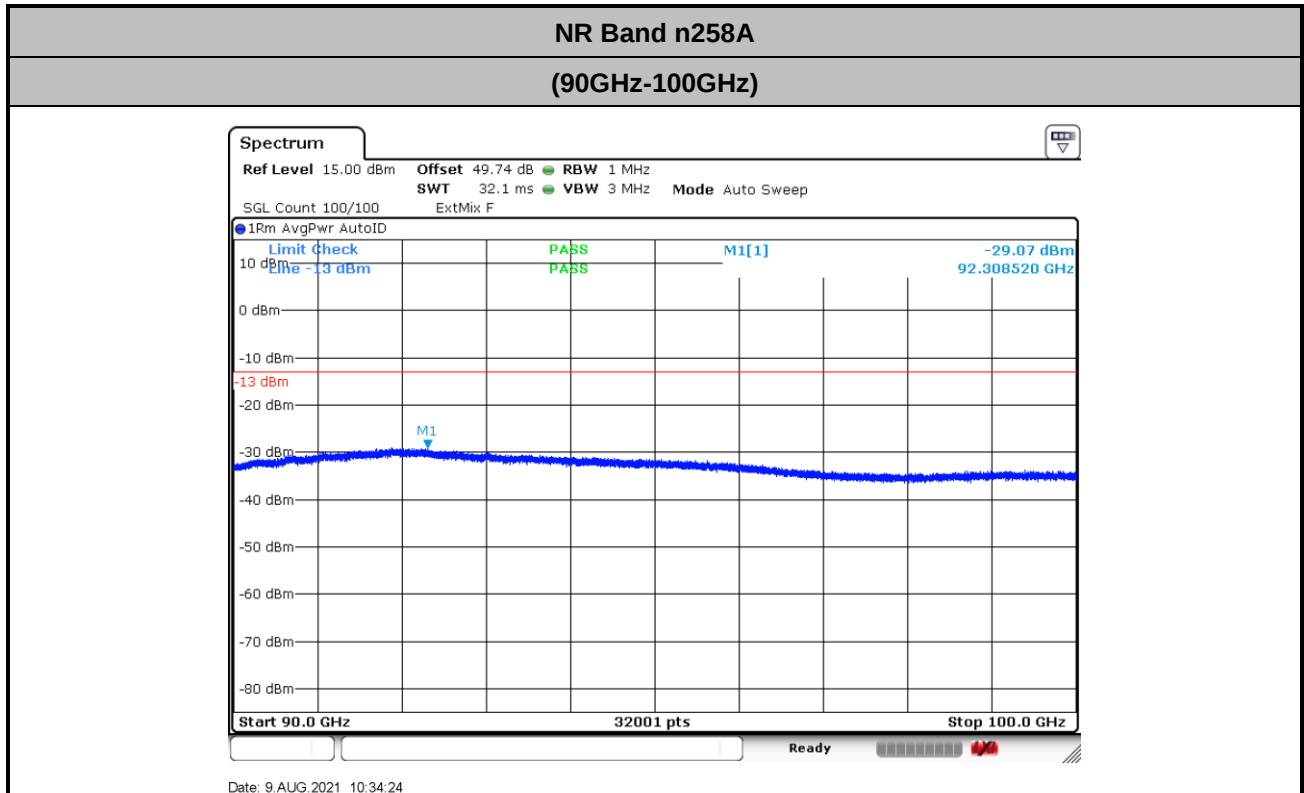
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 0.34 + 107 + 20\log(1) - 104.8 = 44.84 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94 \text{ (dB)} \end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 0.34 + 107 + 20\log(1) - 104.8 = 49.74 \text{ (dB)}\end{aligned}$$

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	24.35103295	0.250	0.010	Pass
40	Normal Voltage	24.3510332	0.000	0.000	
30	Normal Voltage	24.3510332	0.000	0.000	
20(Ref.)	Normal Voltage	24.3510332	0.000	0.000	
10	Normal Voltage	24.35103295	0.250	0.010	
0	Normal Voltage	24.35103295	0.250	0.010	
-10	Normal Voltage	24.35103295	0.250	0.010	
-20	Normal Voltage	24.35103295	0.250	0.010	
-30	Normal Voltage	24.35103295	0.250	0.010	
20	Maximum Voltage	24.3510332	0.000	0.000	
20	Normal Voltage	24.3510332	0.000	0.000	
20	Battery End Point	24.3510332	0.000	0.000	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

NR Band n258B Module A Beam H

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n258B : 99%OBW(MHz)					
BW	100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	91.70	91.85	91.52	190.54	190.56	190.32
Middle CH	91.63	91.49	91.33	190.33	190.43	190.46
Highest CH	91.68	91.78	91.50	190.51	190.64	190.77

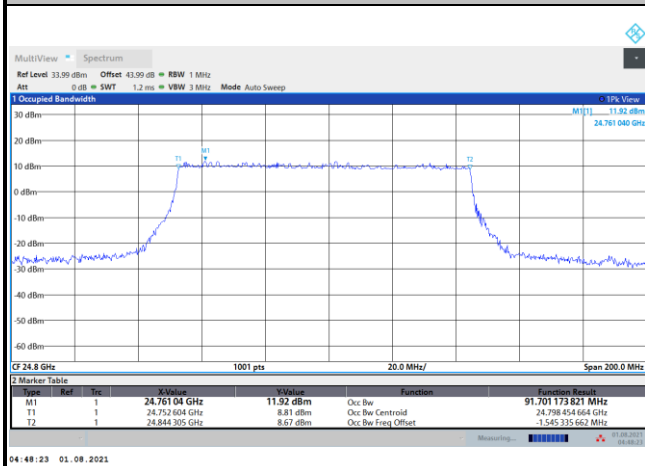
Mode	CP-OFDM Module A NR Band n258B : 99%OBW(MHz)	
BW	100MHz	200MHz
Mod.	QPSK	QPSK
Lowest CH	94.42	193.00
Middle CH	94.40	193.40
Highest CH	94.37	193.72



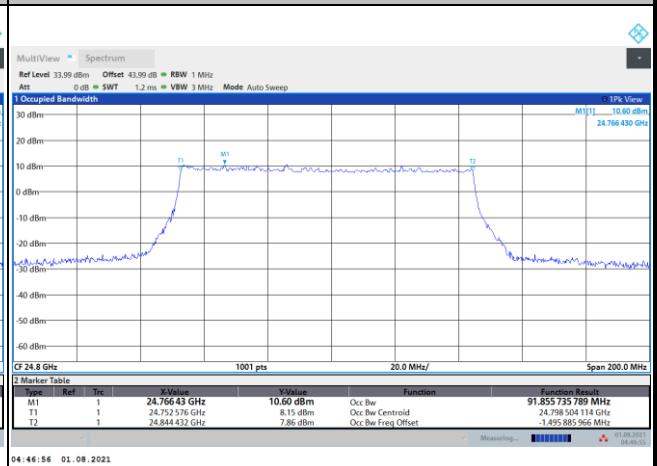
DFT-s-OFDM Module A

NR Band n258B

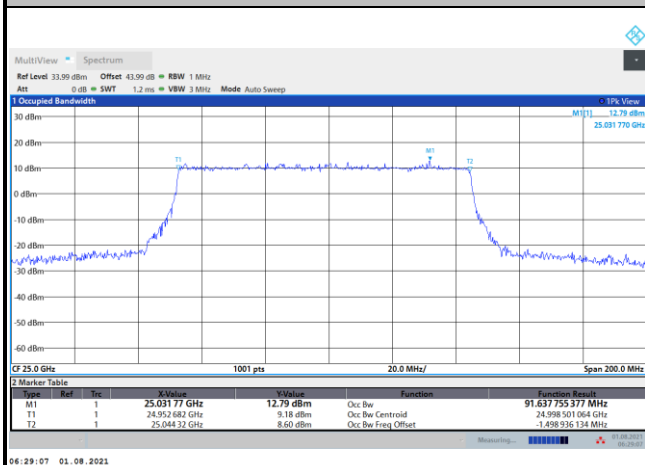
Lowest Channel / 100MHz / QPSK



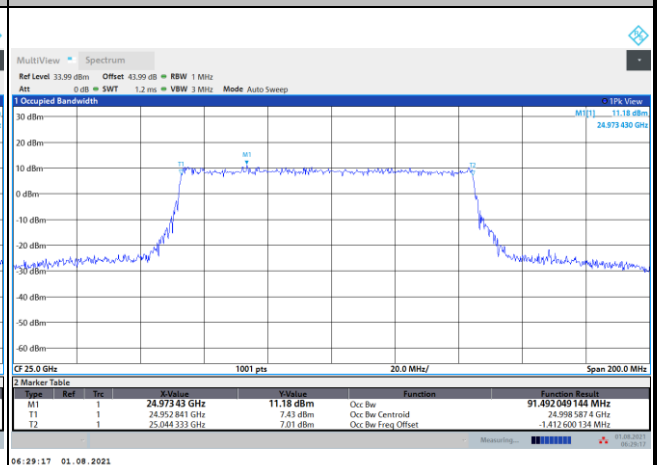
Lowest Channel / 100MHz / 16QAM



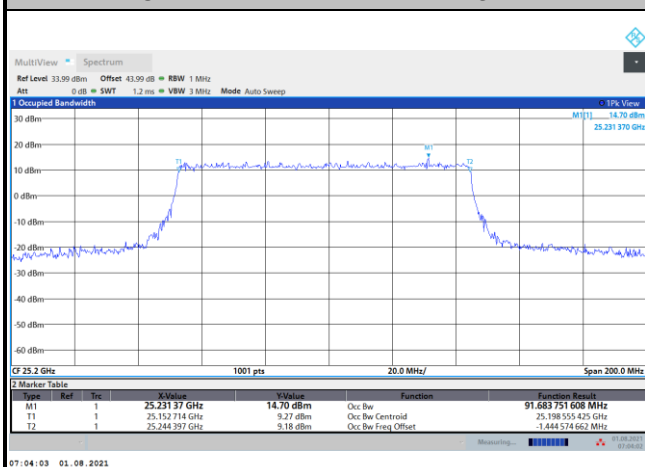
Middle Channel / 100MHz / QPSK



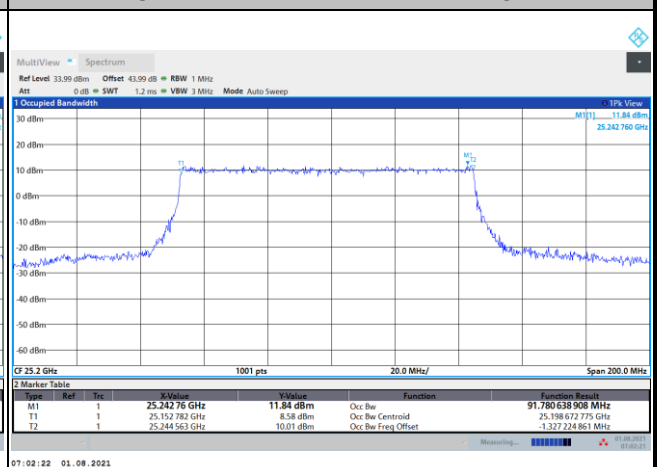
Middle Channel / 100MHz / 16QAM



Highest Channel / 100MHz / QPSK



Highest Channel / 100MHz / 16QAM

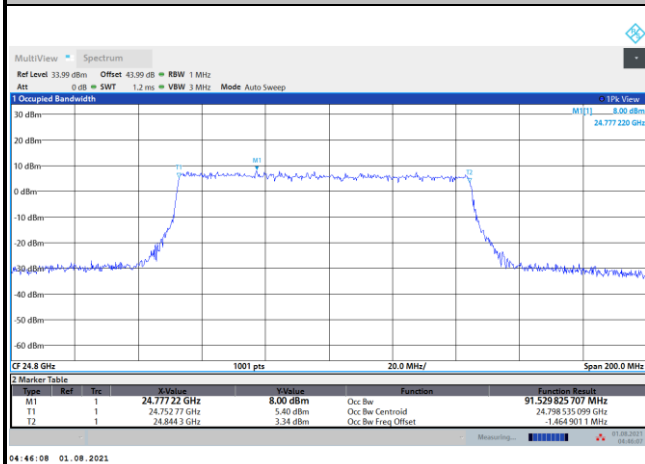




DFT-s-OFDM Module A

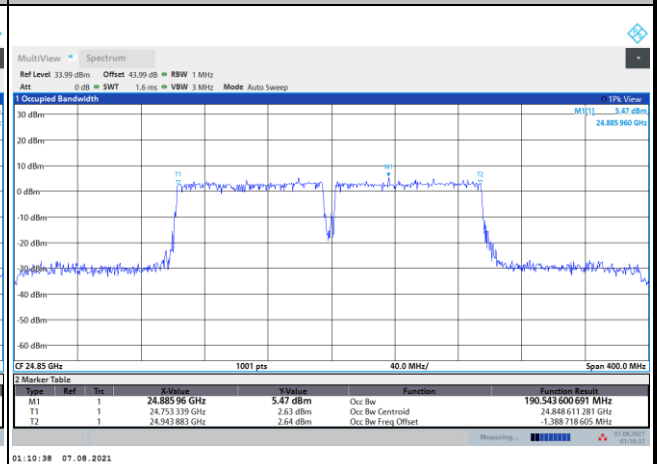
NR Band n258B

Lowest Channel / 100MHz / 64QAM



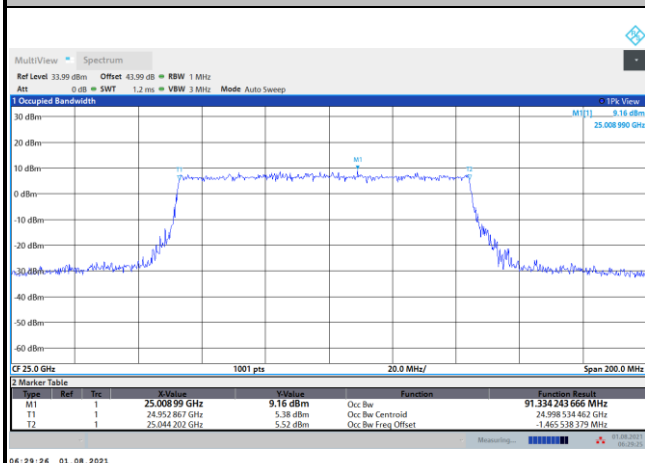
04:46:08 01.08.2021

Lowest Channel / 200MHz / QPSK



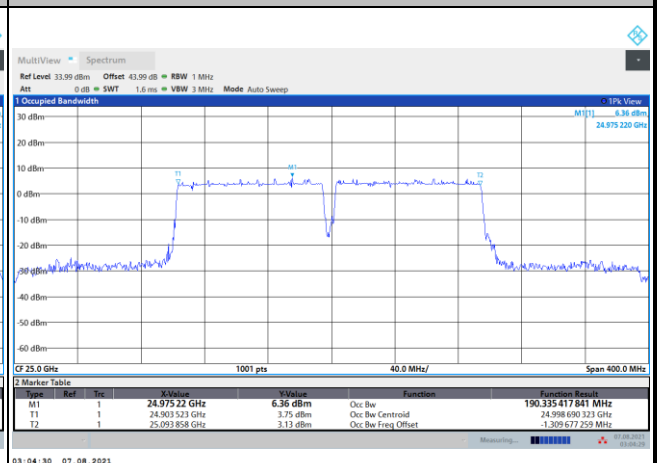
01:10:38 07.08.2021

Middle Channel / 100MHz / 64QAM



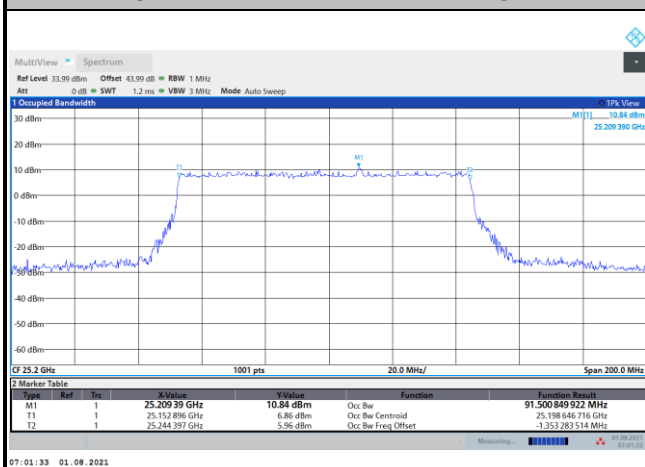
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Middle Channel / 200MHz / QPSK



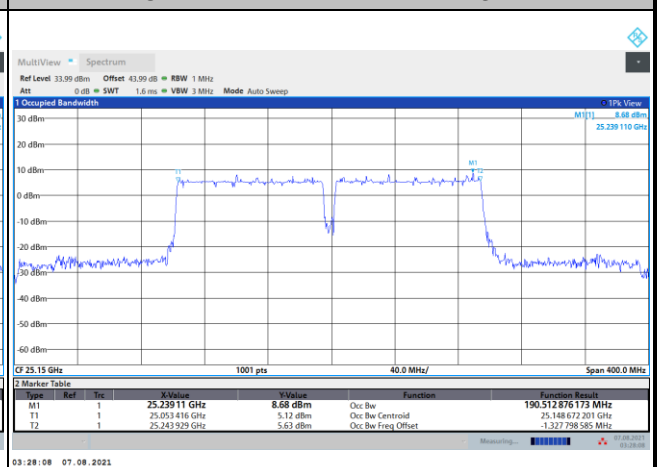
03:04:30 07.08.2021

Highest Channel / 100MHz / 64QAM



07:01:33 01.08.2021

Highest Channel / 200MHz / QPSK



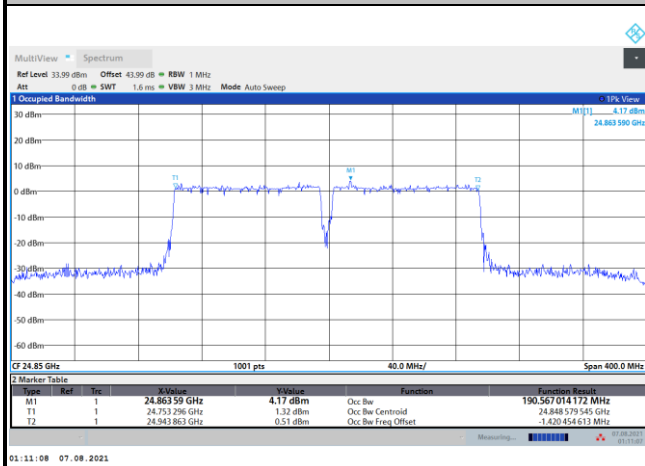
03:28:08 07.08.2021



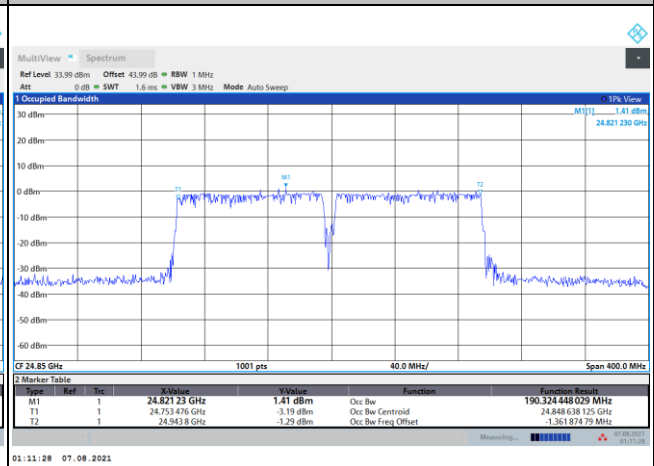
DFT-s-OFDM Module A

NR Band n258B

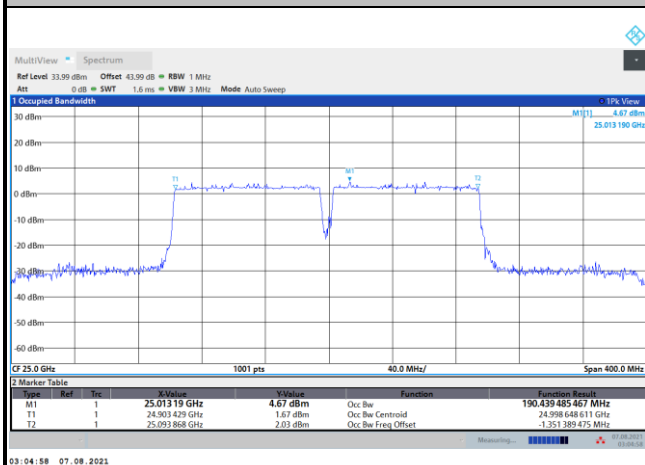
Lowest Channel / 200MHz / 16QAM



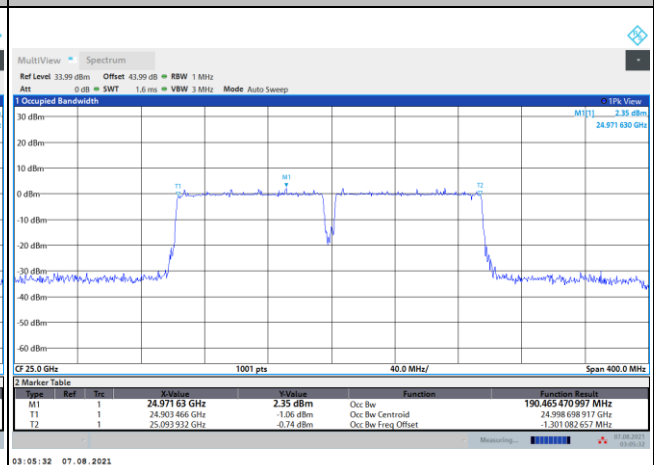
Lowest Channel / 200MHz / 64QAM



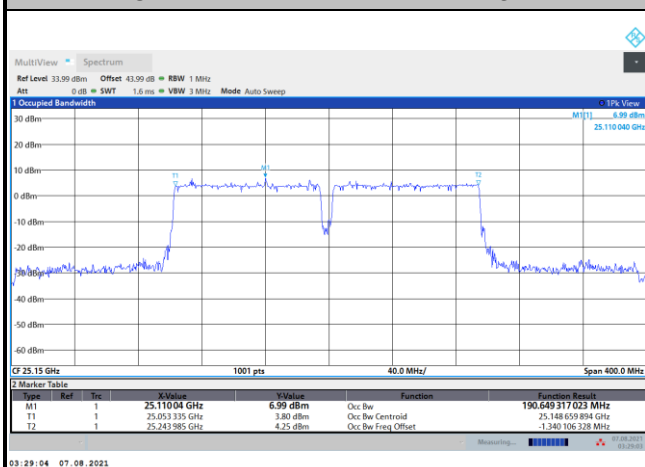
Middle Channel / 200MHz / 16QAM



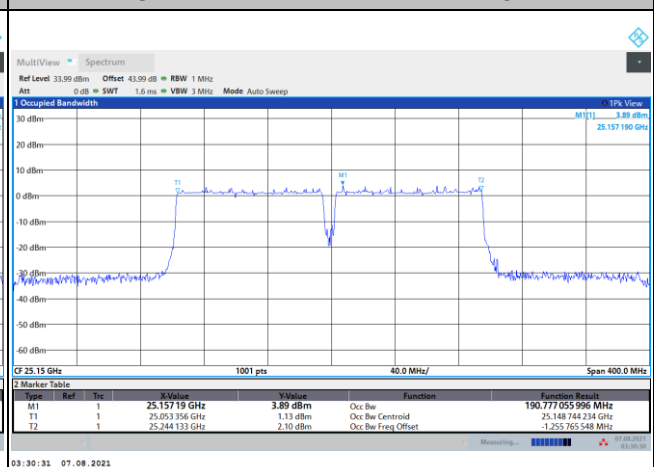
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM

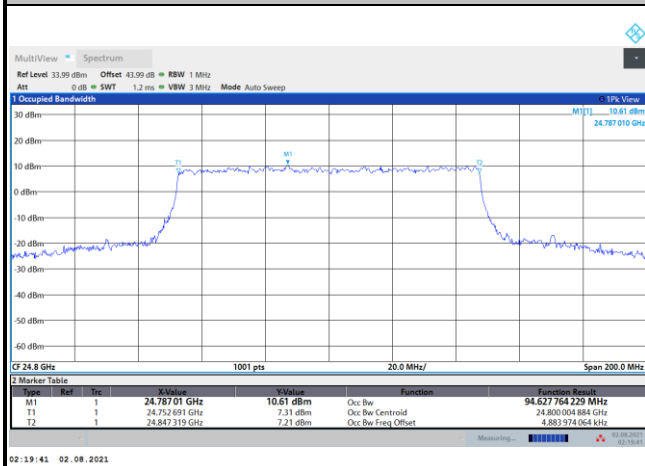




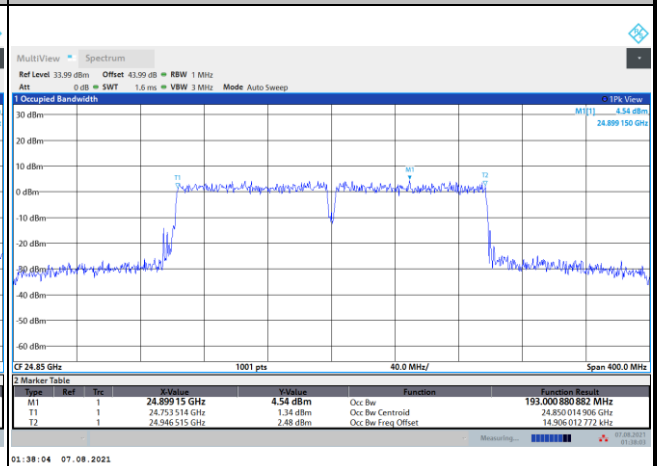
CP-OFDM Module A

NR Band n258B

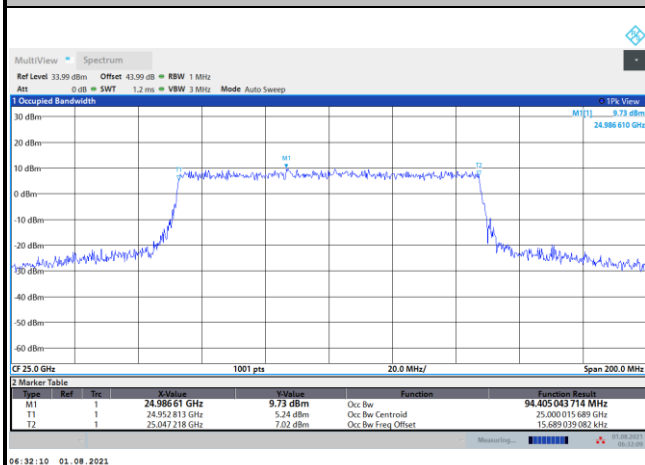
Lowest Channel / 100MHz / QPSK



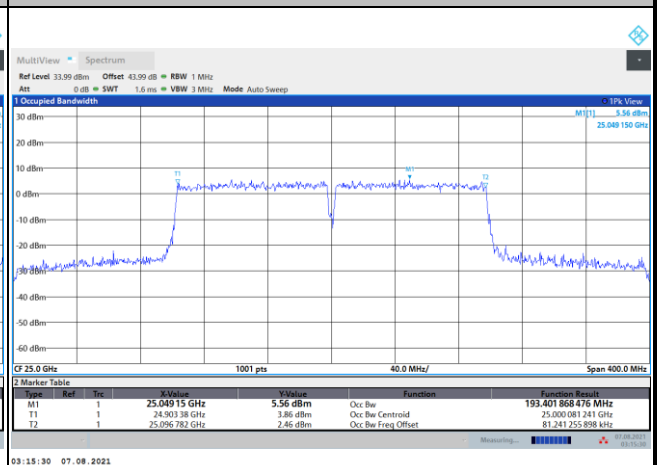
Lowest Channel / 200MHz / QPSK



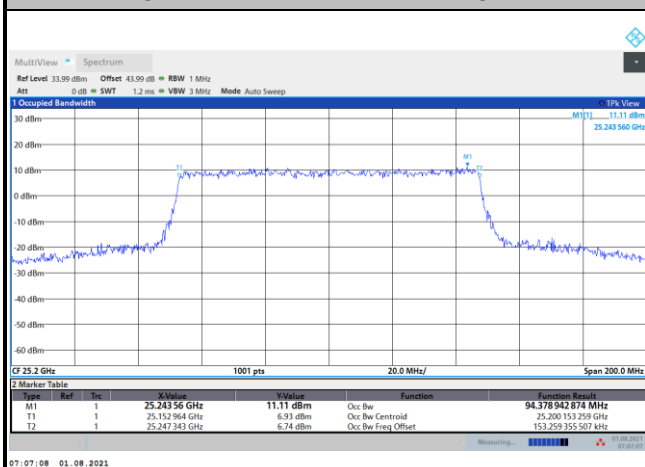
Middle Channel / 100MHz / QPSK



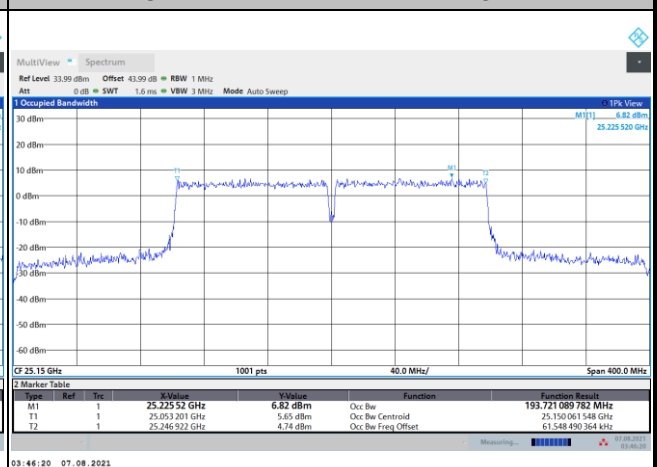
Middle Channel / 200MHz / QPSK



Highest Channel / 100MHz / QPSK



Highest Channel / 200MHz / QPSK



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module A NR Band n258B : BE (dBm) 1 RB					
BW			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-15.11	-13.91	-20.27	-21.37	-20.21	-23.48
	>10%OB	≤-13	-39.46	-40.30	-40.48	-24.69	-25.37	-29.48
High CH	0~10%OB	≤-5	-11.18	-14.16	-17.07	-15.10	-17.55	-20.86
	>10%OB	≤-13	-37.26	-38.35	-39.63	-21.72	-19.89	-26.25
Result			Compliance					

Mode			CP-OFDM Module A NR Band n258B : BE (dBm) 1 RB		
BW			100MHz		200MHz
Limit (dBm)			QPSK		QPSK
Low CH	0~10%OB	≤-5	-15.86		-20.61
	>10%OB	≤-13	-39.90		-23.14
High CH	0~10%OB	≤-5	-15.37		-17.20
	>10%OB	≤-13	-37.87		-18.60
Result			Compliance		

Mode			DFT-s-OFDM Module A NR Band n258B : BE (dBm) Full RB					
BW			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-22.46	-26.11	-29.05	-27.83	-28.83	-31.30
	>10%OB	≤-13	-32.56	-34.34	-36.92	-32.32	-32.83	-33.01
High CH	0~10%OB	≤-5	-25.09	-26.28	-28.48	-27.21	-28.81	-31.30
	>10%OB	≤-13	-27.26	-29.86	-33.61	-31.05	-31.32	-33.04
Result			Compliance					

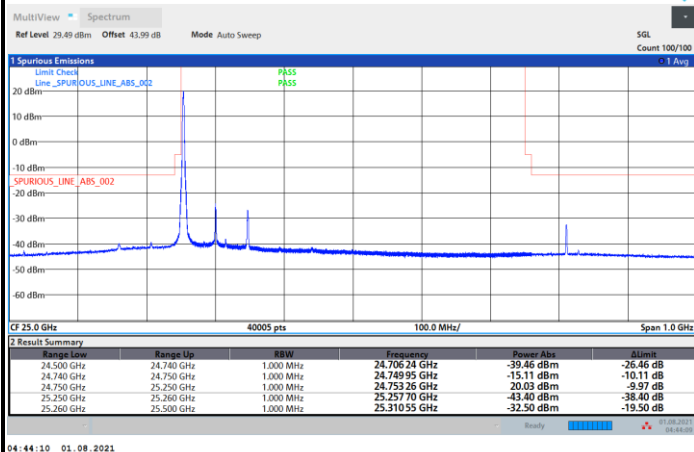
Mode			CP-OFDM Module A NR Band n258B : BE (dBm) Full RB		
BW			100MHz		200MHz
Limit (dBm)			QPSK		QPSK
Low CH	0~10%OB	≤-5	-25.62		-27.40
	>10%OB	≤-13	-32.93		-30.76
High CH	0~10%OB	≤-5	-22.21		-23.45
	>10%OB	≤-13	-27.63		-29.08
Result			Compliance		



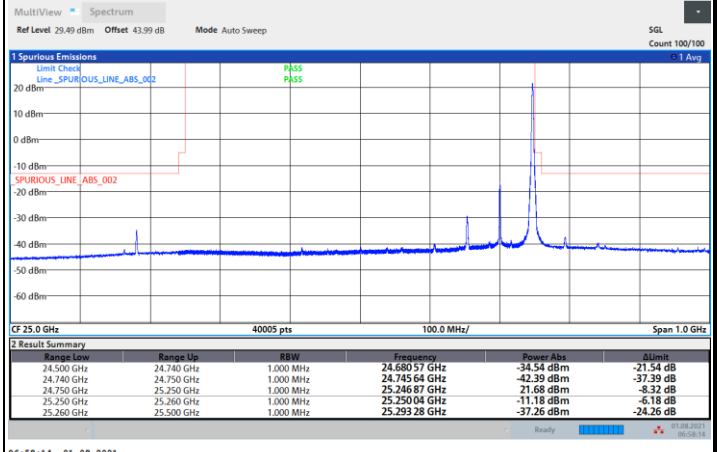
DFT-s-OFDM Module A

NR Band n258B / 100MHz / QPSK

Lowest Band Edge / 1 RB

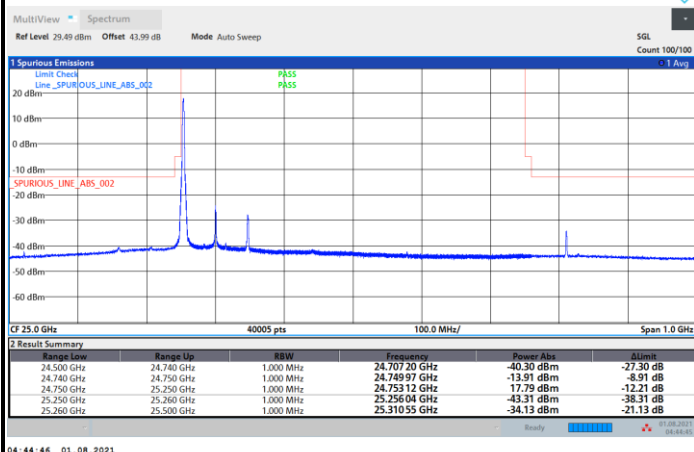


Highest Band Edge / 1 RB

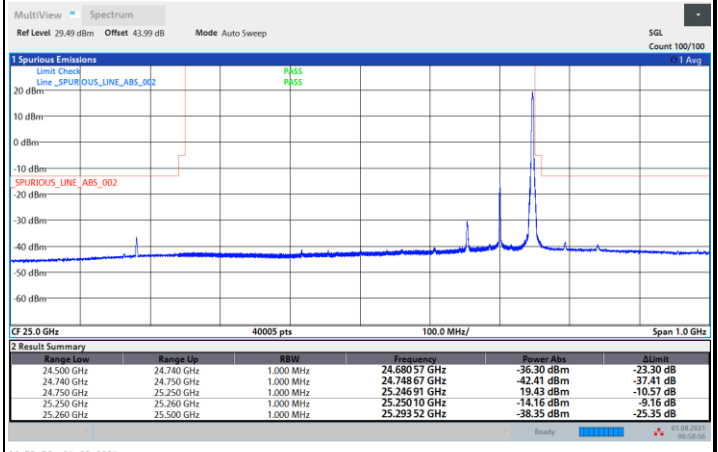


NR Band n258B / 100MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

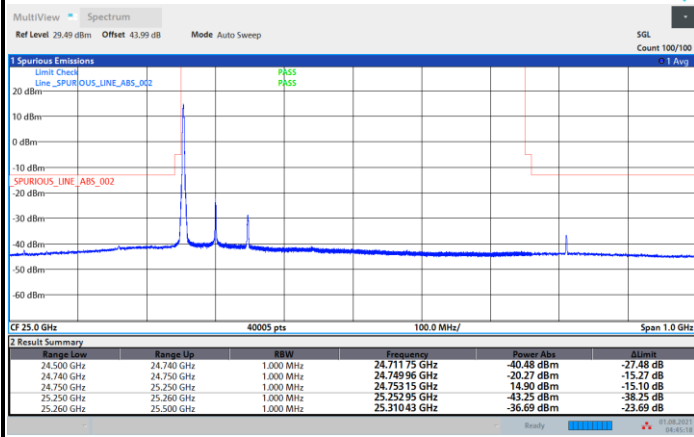




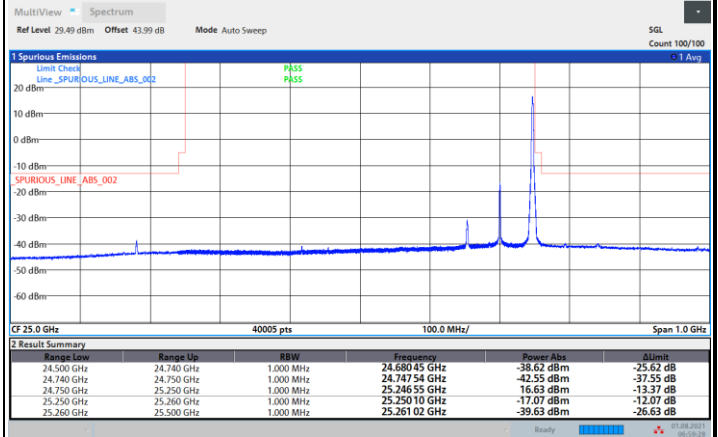
DFT-s-OFDM Module A

NR Band n258B / 100MHz / 64QAM

Lowest Band Edge / 1 RB

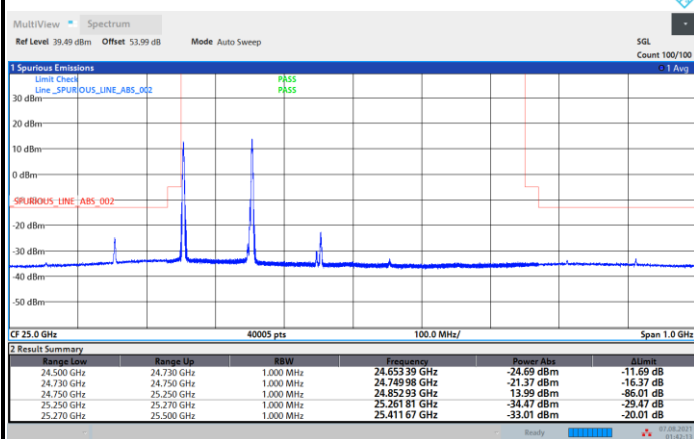


Highest Band Edge / 1 RB

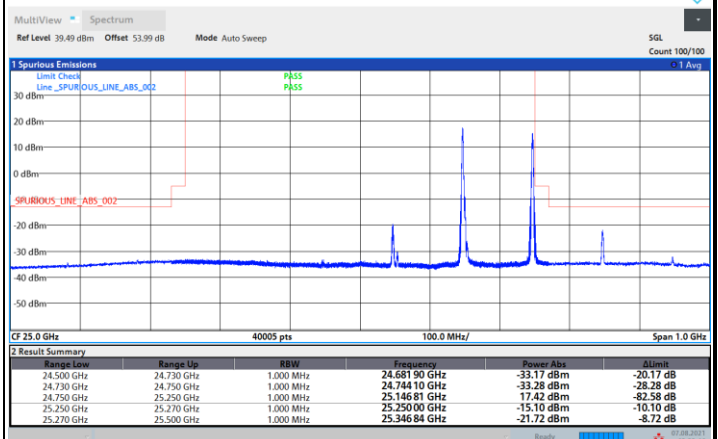


NR Band n258B / 200MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

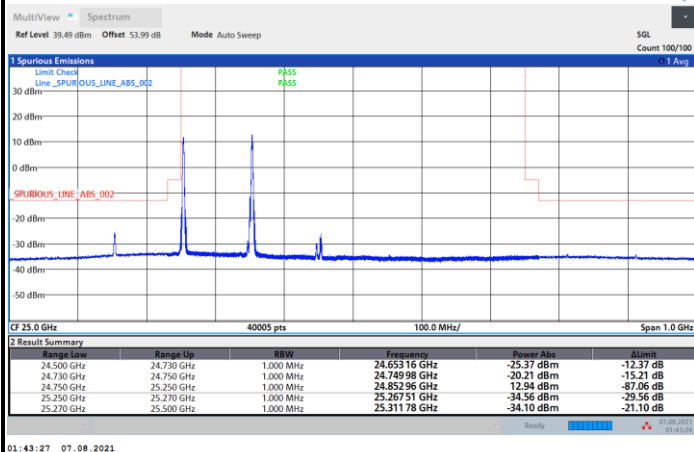




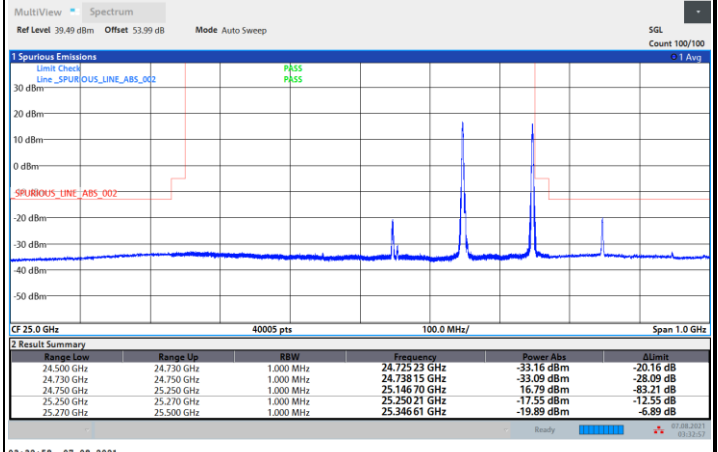
DFT-s-OFDM Module A

NR Band n258B / 200MHz / 16QAM

Lowest Band Edge / 1 RB

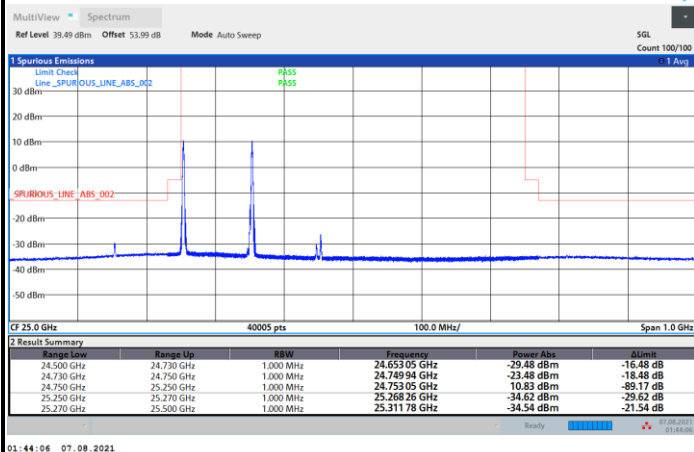


Highest Band Edge / 1 RB

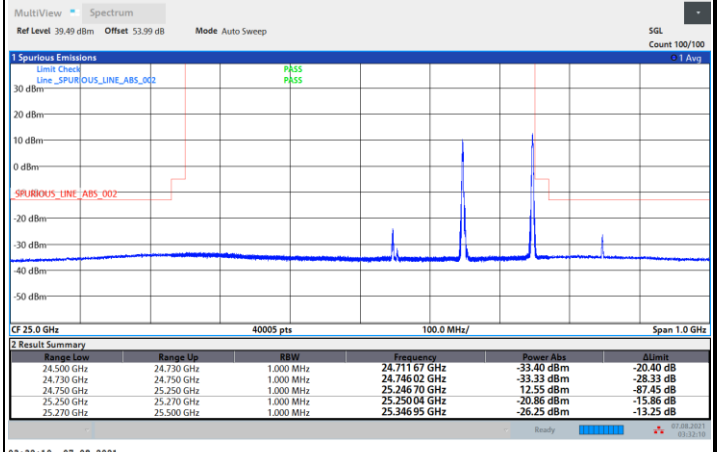


NR Band n258B / 200MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

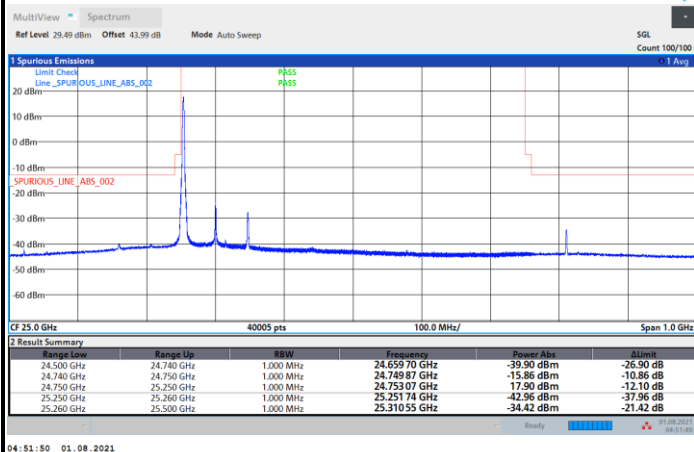




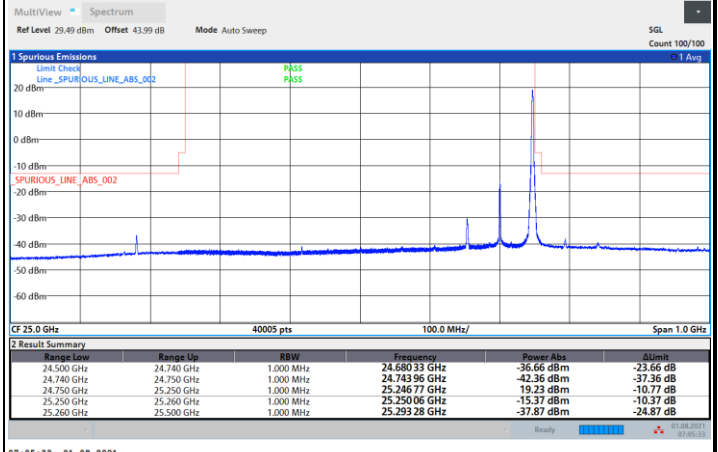
CP-OFDM Module A

NR Band n258B / 100MHz / QPSK

Lowest Band Edge / 1 RB

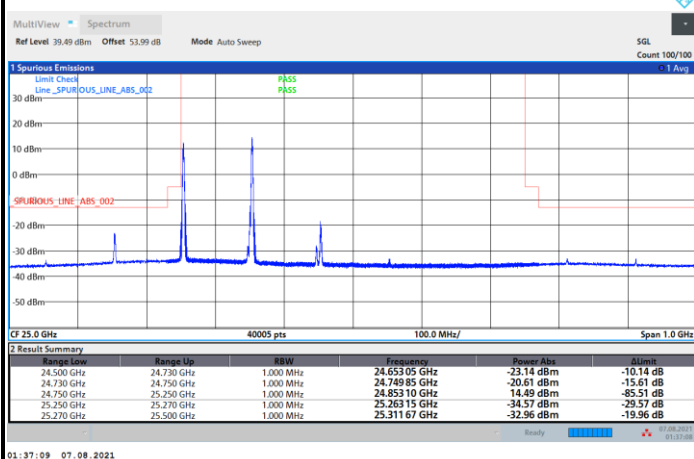


Highest Band Edge / 1 RB

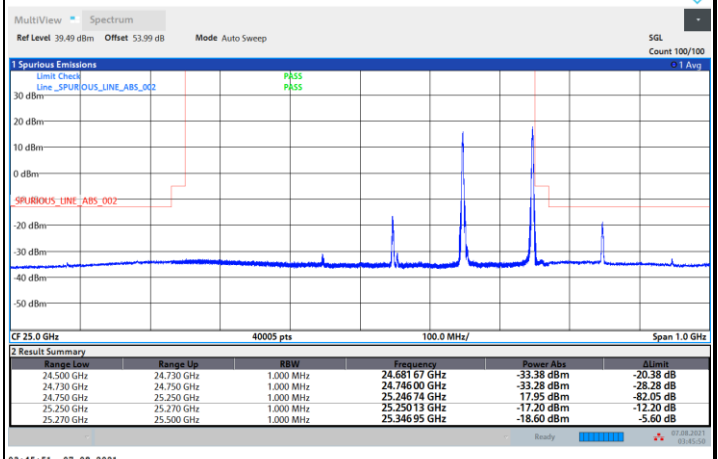


NR Band n258B / 200MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

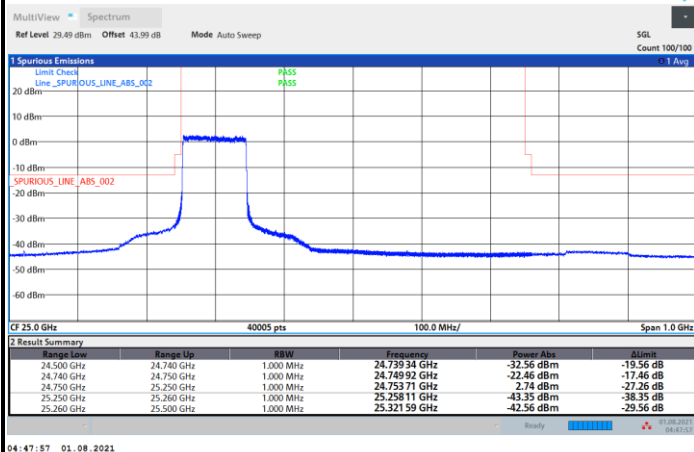




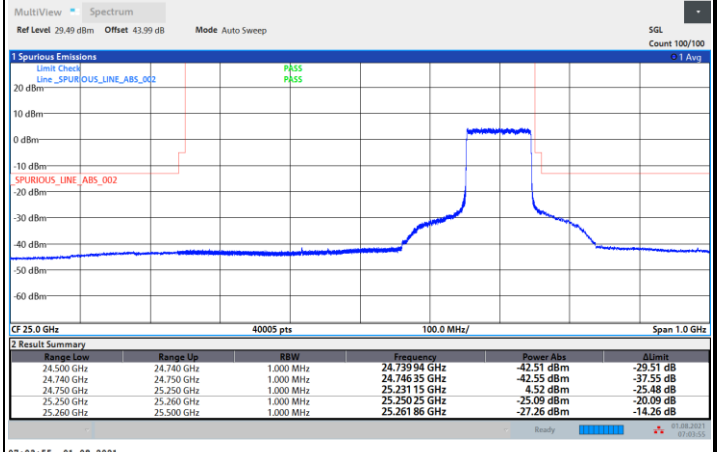
DFT-s-OFDM Module A

NR Band n258B / 100MHz / QPSK

Lowest Band Edge / Full RB

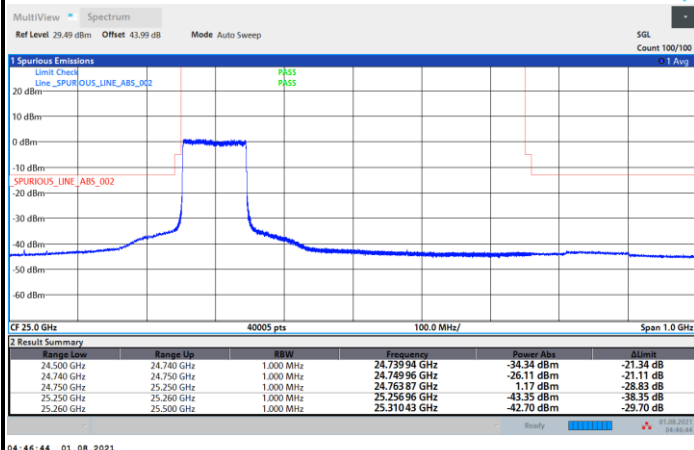


Highest Band Edge / Full RB

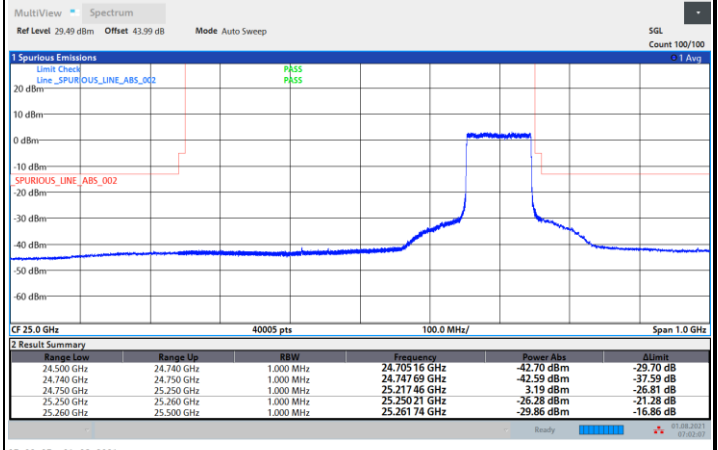


NR Band n258B / 100MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

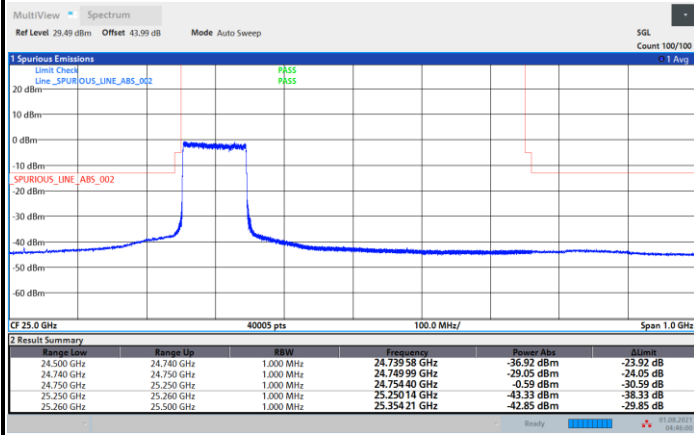




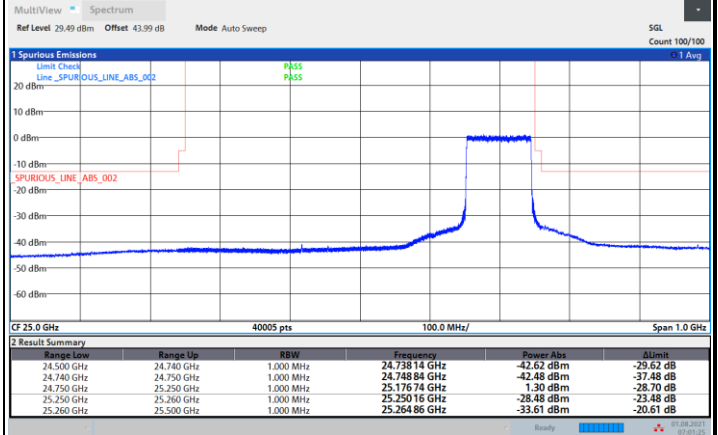
DFT-s-OFDM Module A

NR Band n258B / 100MHz / 64QAM

Lowest Band Edge / Full RB

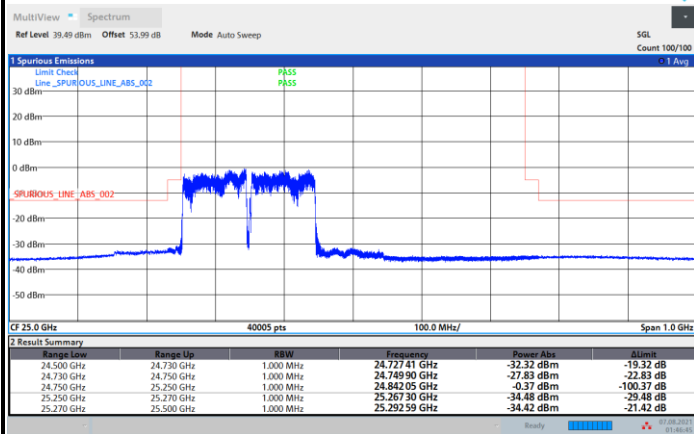


Highest Band Edge / Full RB

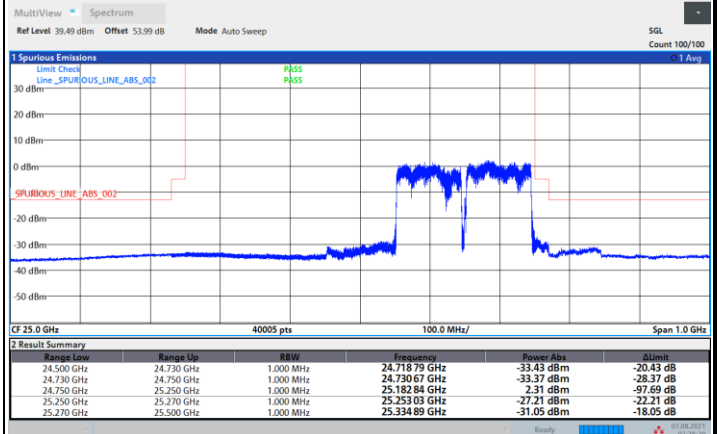


NR Band n258B / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

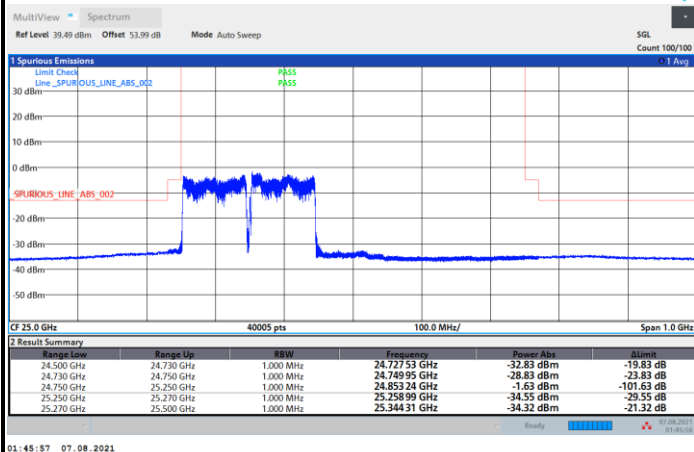




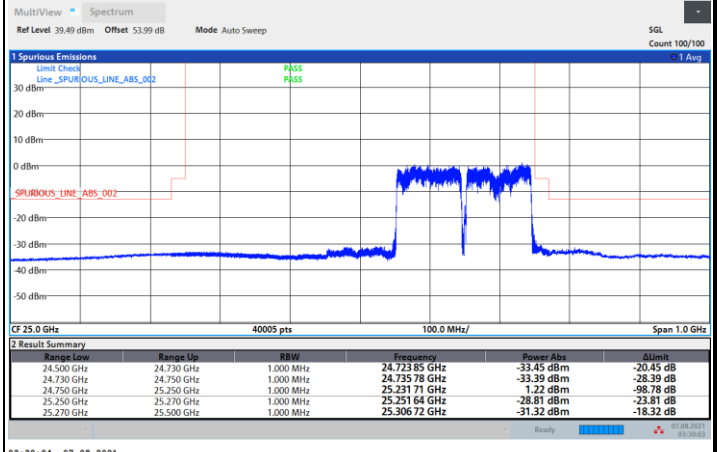
DFT-s-OFDM Module A

NR Band n258B / 200MHz / 16QAM

Lowest Band Edge / Full RB

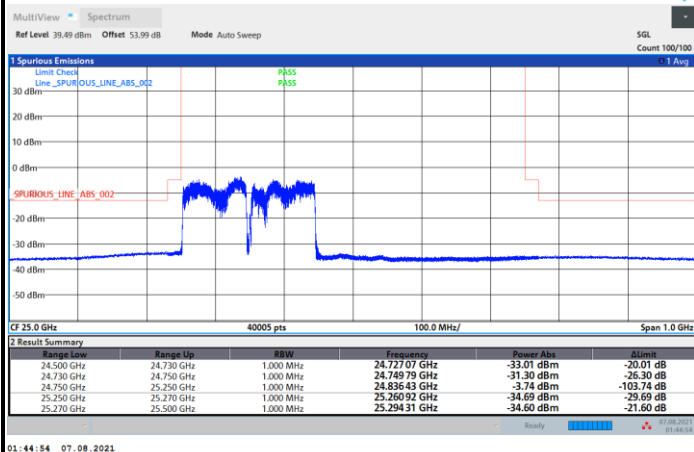


Highest Band Edge / Full RB

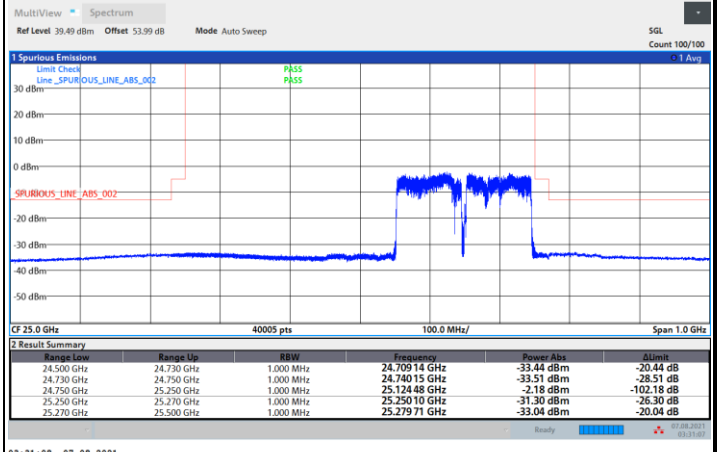


NR Band n258B / 200MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

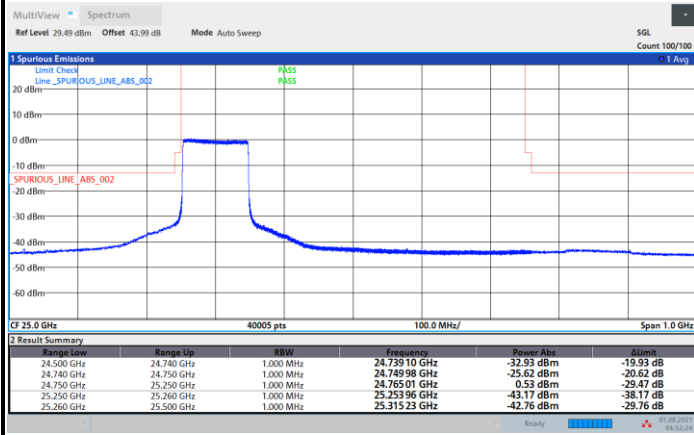




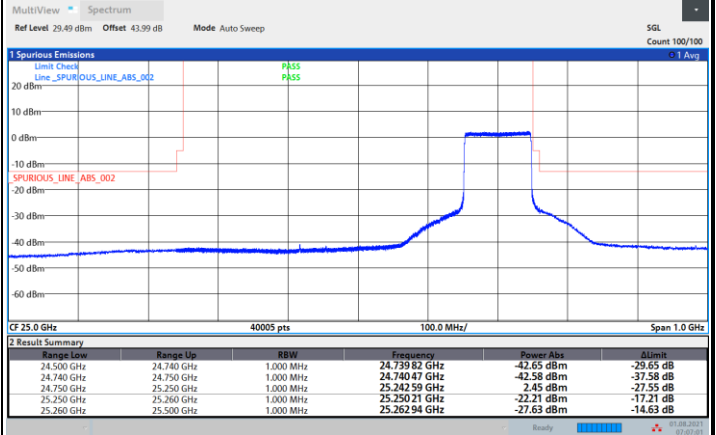
CP-OFDM Module A

NR Band n258B / 100MHz / QPSK

Lowest Band Edge / Full RB

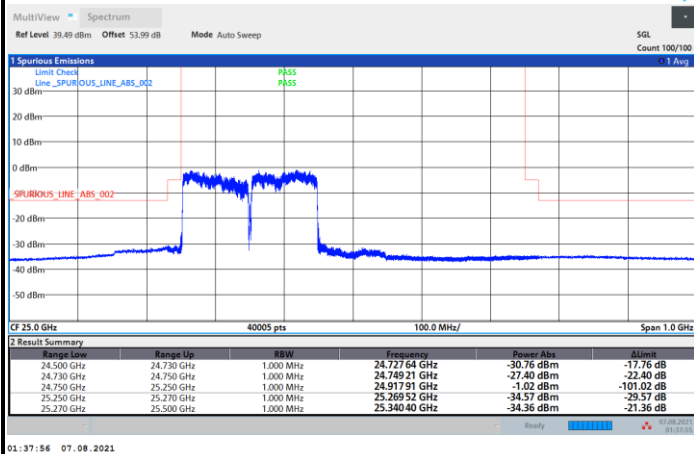


Highest Band Edge / Full RB

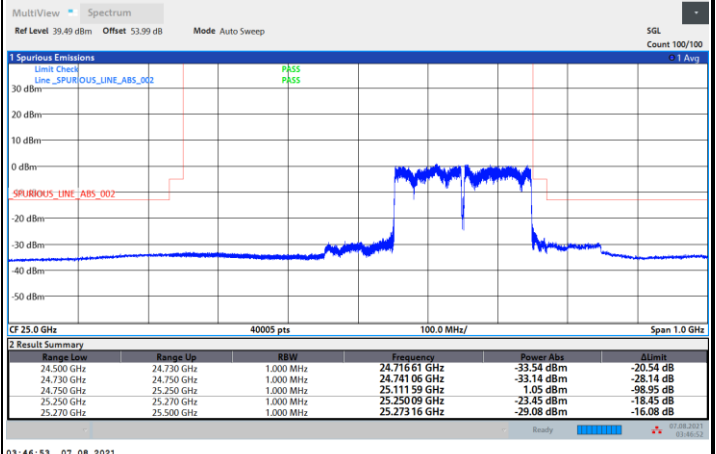


NR Band n258B / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



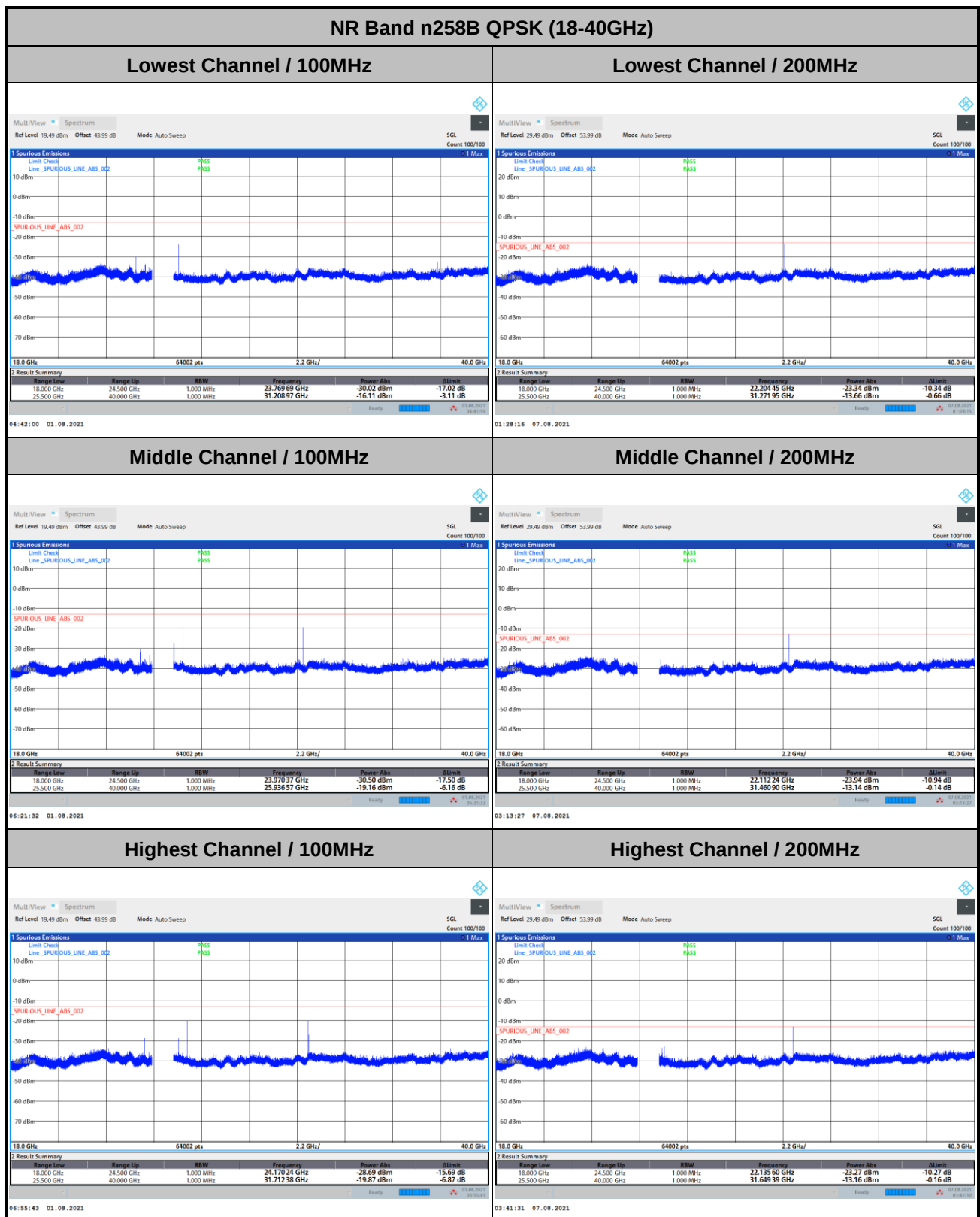


Spurious Emission



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

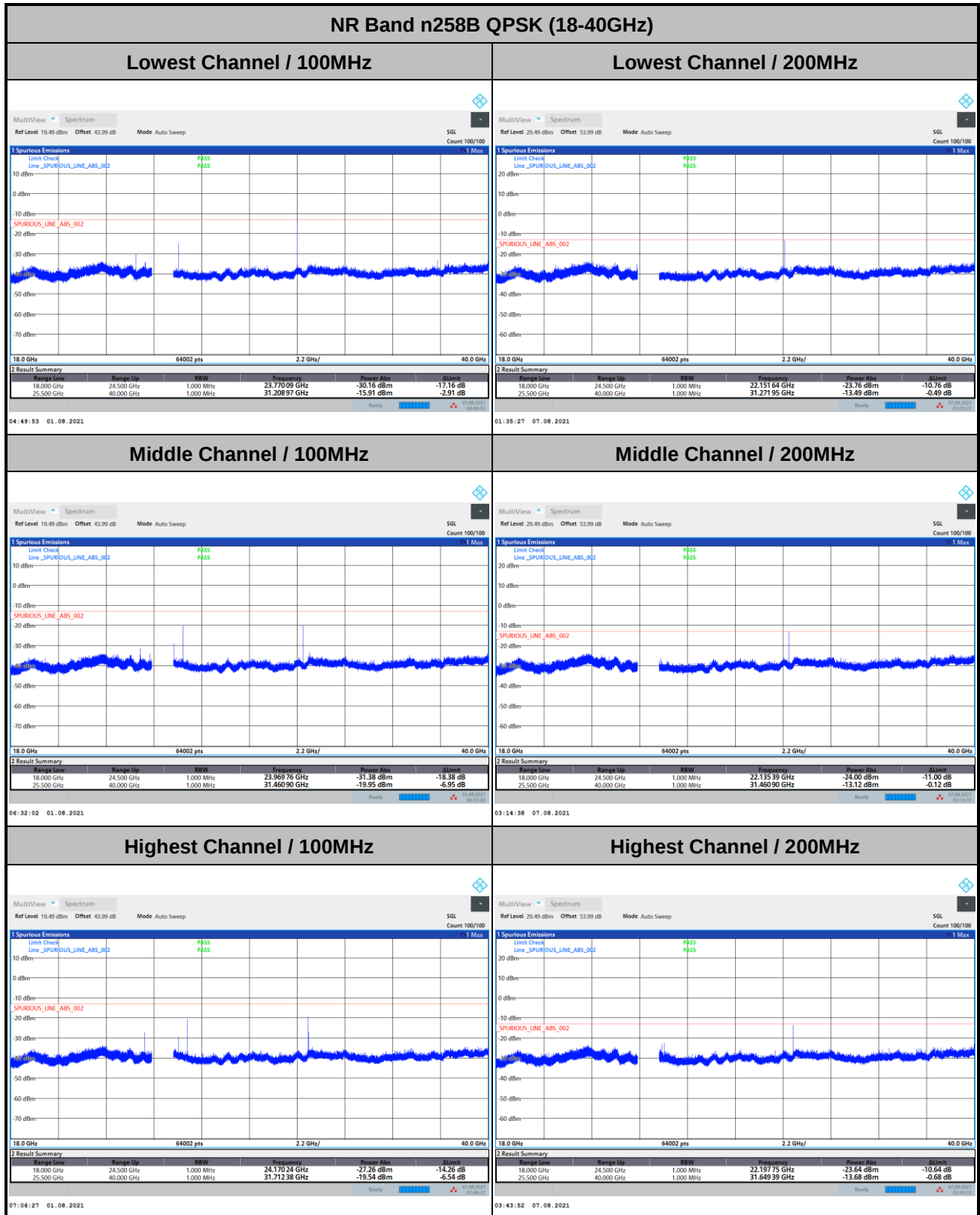
DFT-s-OFDM Module A



Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module A



Remark: In band and out of band frequencies that has reported in previous results are omitted.

NR Band n258B Module A Beam V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n258B : 99%OBW(MHz)					
BW	100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	91.81	91.89	91.65	190.67	190.09	190.37
Middle CH	91.81	91.83	91.45	190.33	190.27	190.25
Highest CH	91.90	91.85	91.59	190.47	190.43	190.46

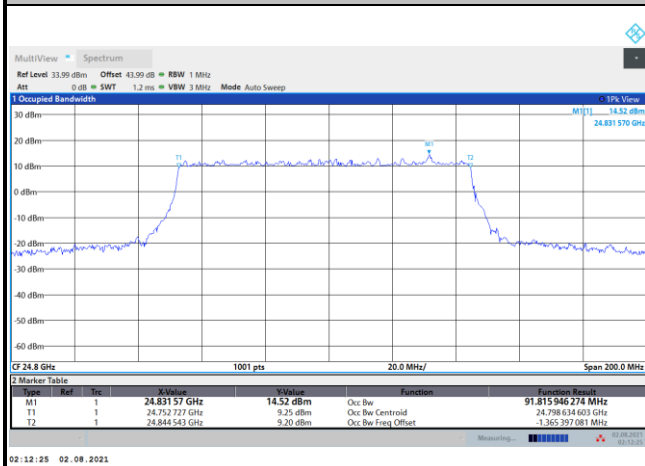
Mode	CP-OFDM Module A NR Band n258B : 99%OBW(MHz)	
BW	100MHz	200MHz
Mod.	QPSK	QPSK
Lowest CH	94.62	193.30
Middle CH	94.54	193.52
Highest CH	94.61	193.43



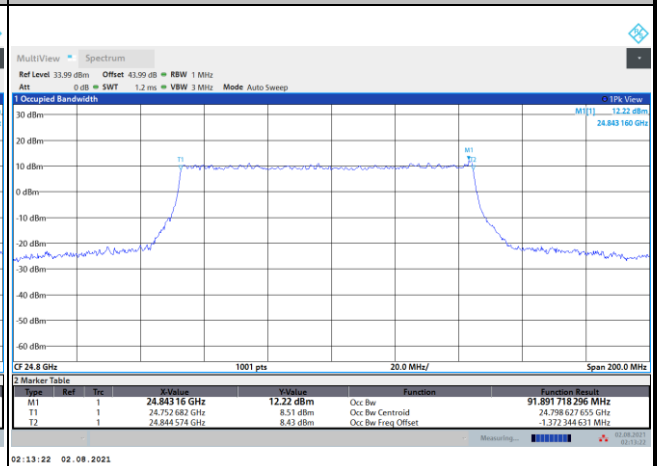
DFT-s-OFDM Module A

NR Band n258B

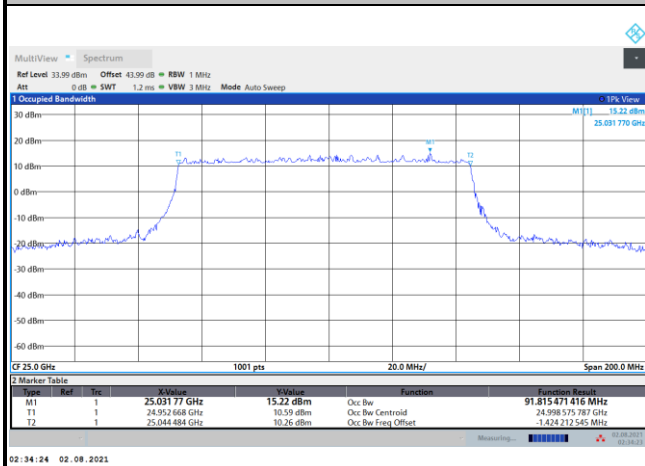
Lowest Channel / 100MHz / QPSK



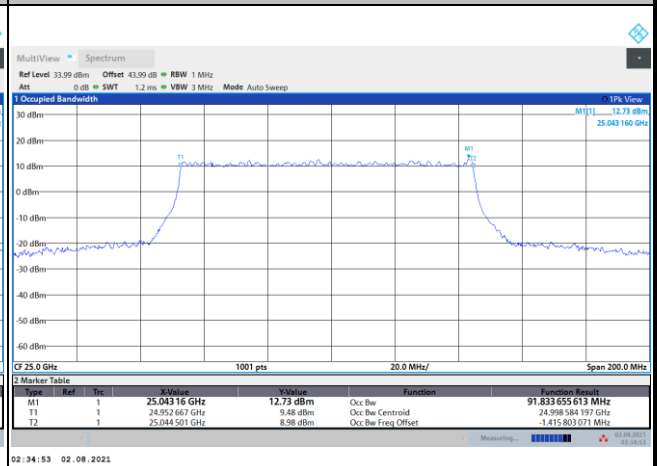
Lowest Channel / 100MHz / 16QAM



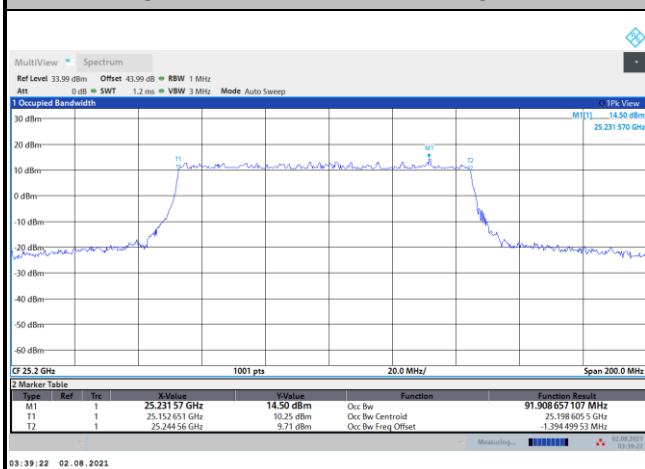
Middle Channel / 100MHz / QPSK



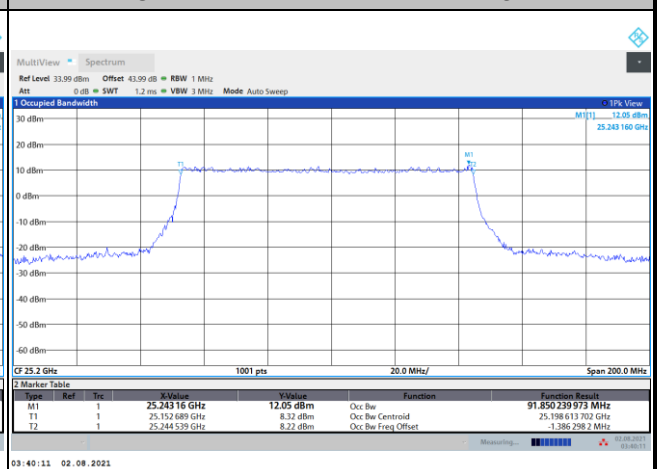
Middle Channel / 100MHz / 16QAM



Highest Channel / 100MHz / QPSK



Highest Channel / 100MHz / 16QAM

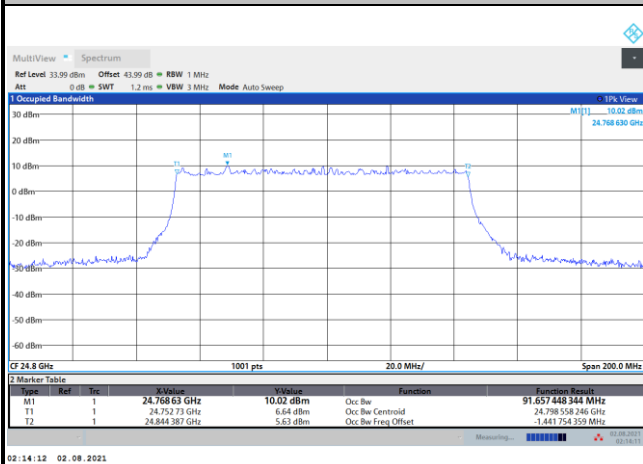




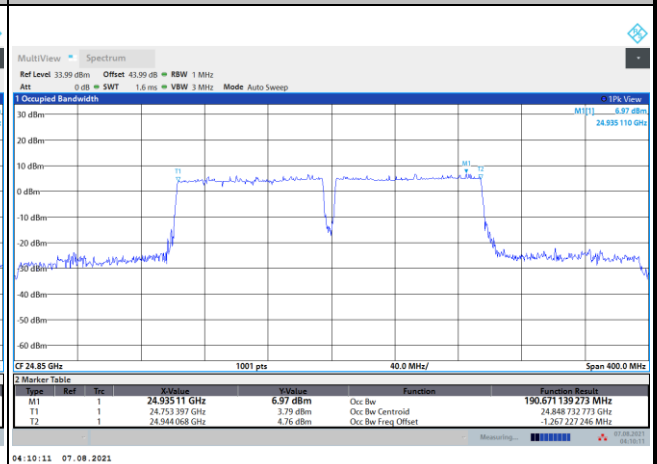
DFT-s-OFDM Module A

NR Band n258B

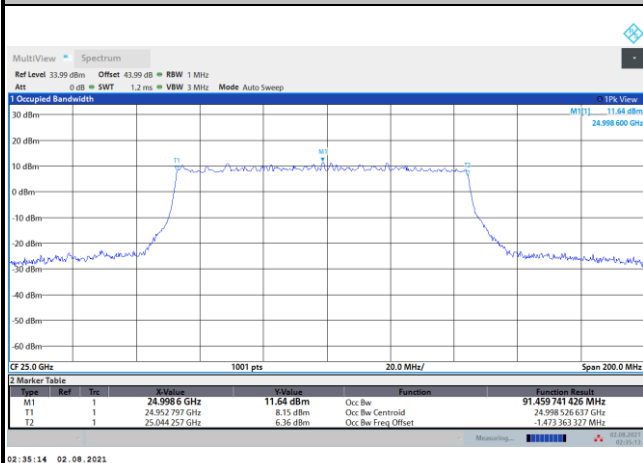
Lowest Channel / 100MHz / 64QAM



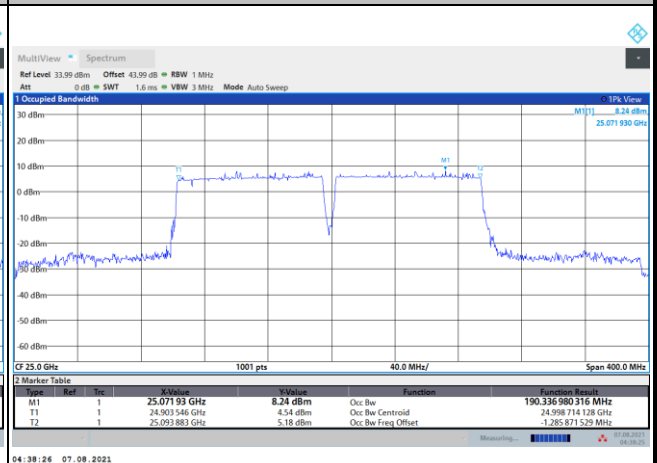
Lowest Channel / 200MHz / QPSK



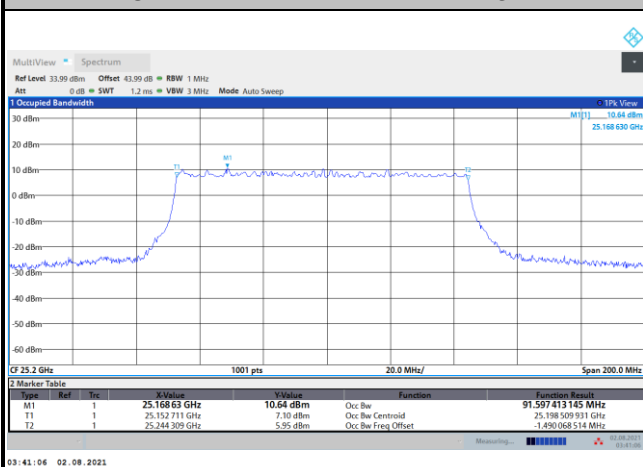
Middle Channel / 100MHz / 64QAM



Middle Channel / 200MHz / QPSK



Highest Channel / 100MHz / 64QAM



Highest Channel / 200MHz / QPSK

