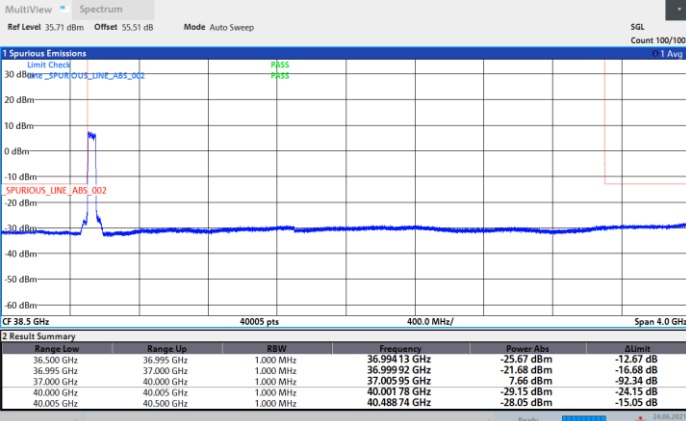




DFT-s-OFDM Module 0

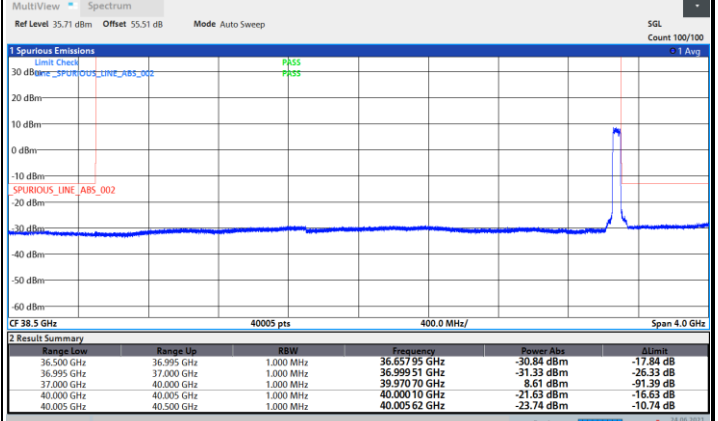
NR Band n260 / 50MHz / BPSK

Lowest Band Edge / Full RB



00:56:33 24.06.2021

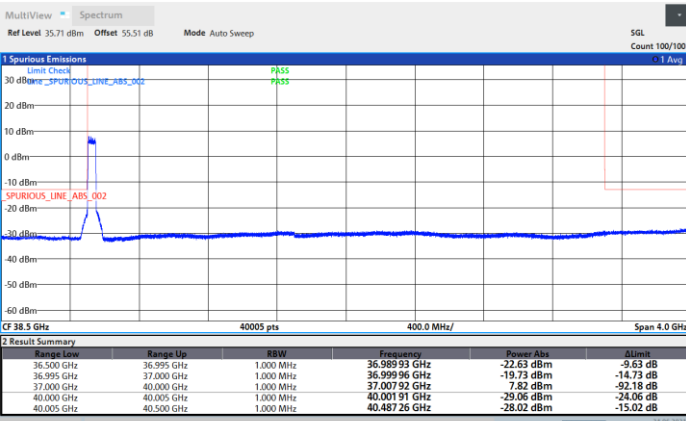
Highest Band Edge / Full RB



21:03:50 24.06.2021

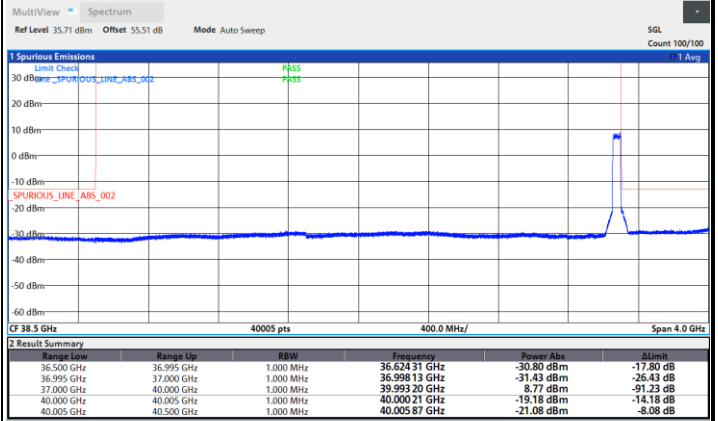
NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB



00:57:14 24.06.2021

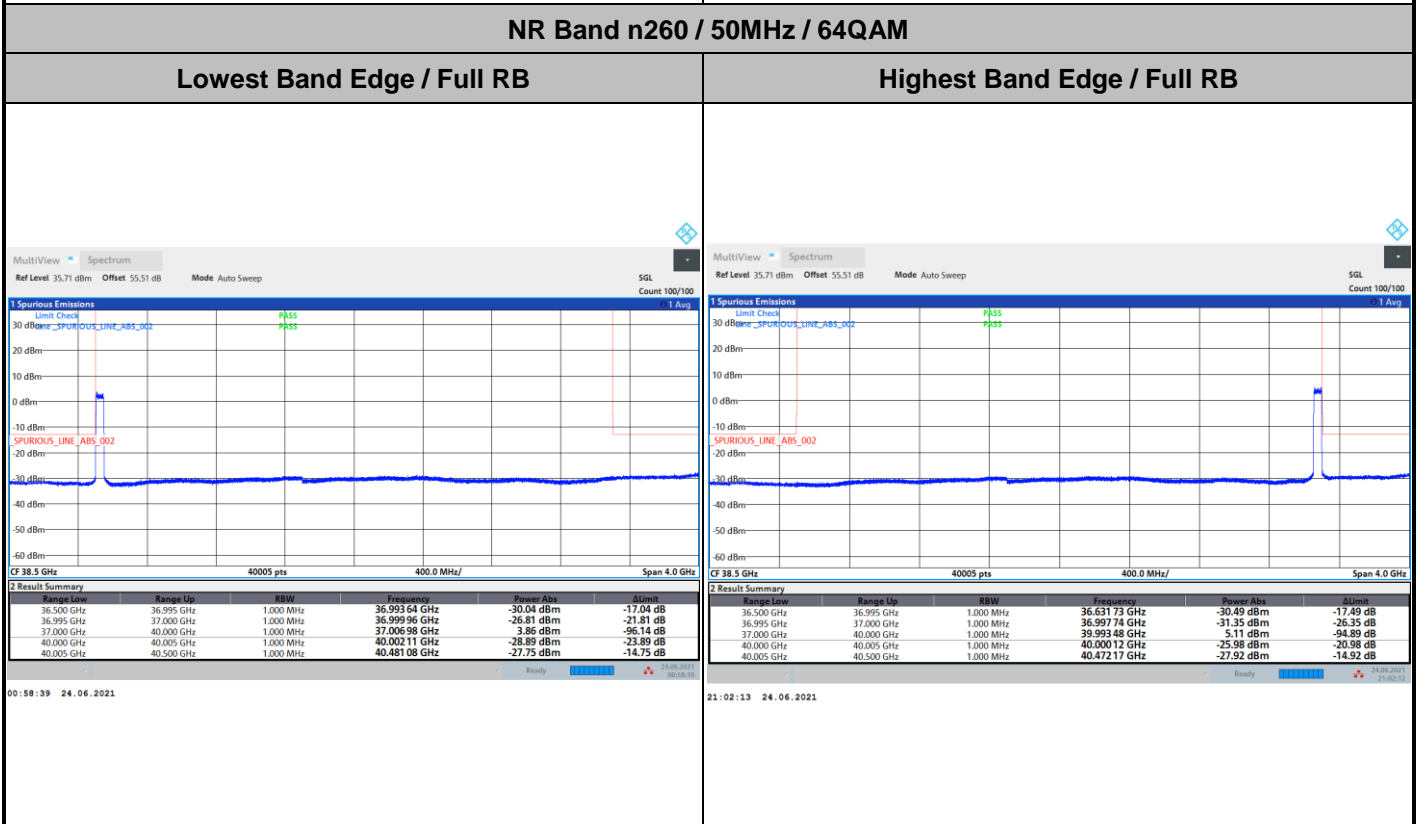
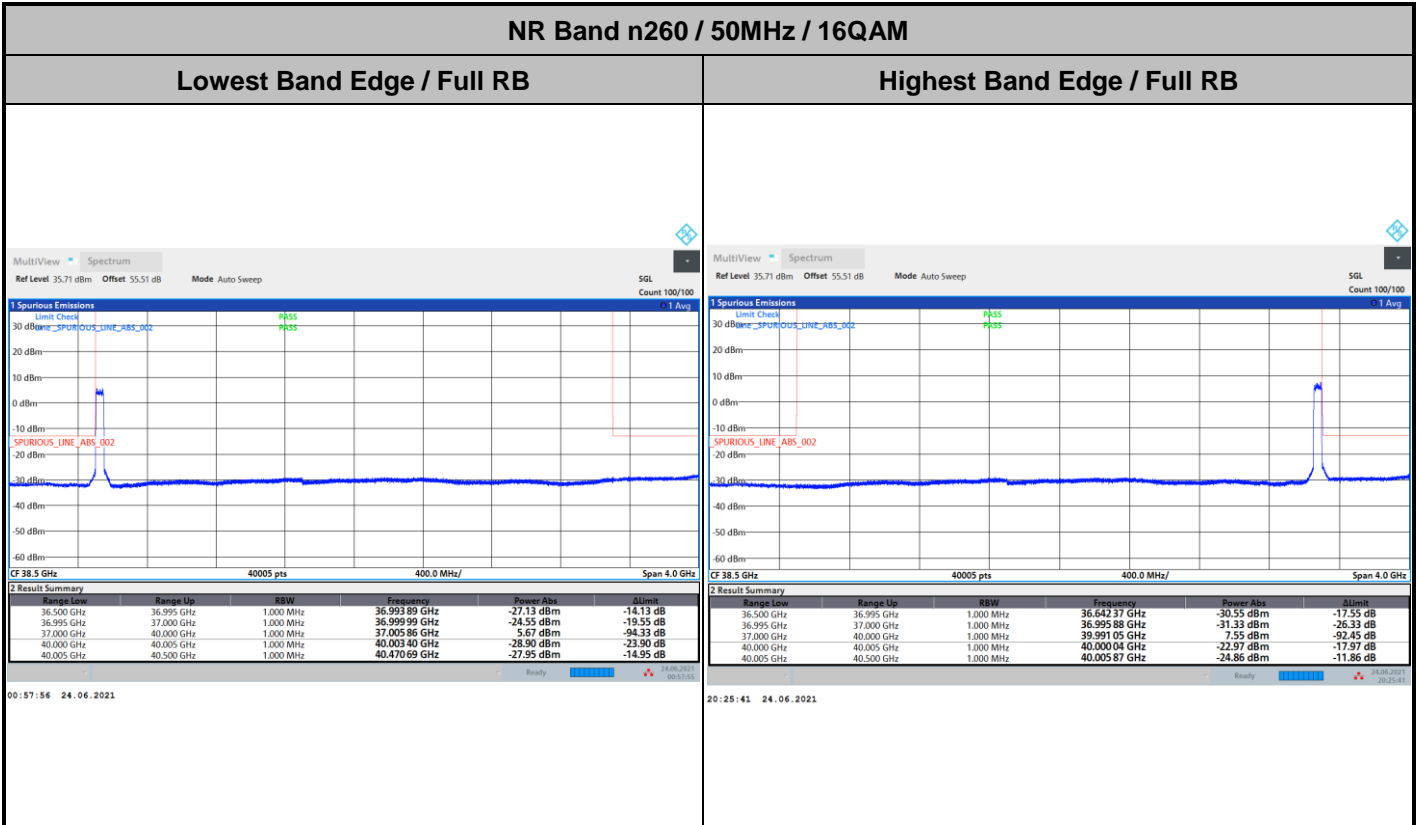
Highest Band Edge / Full RB



20:24:33 24.06.2021

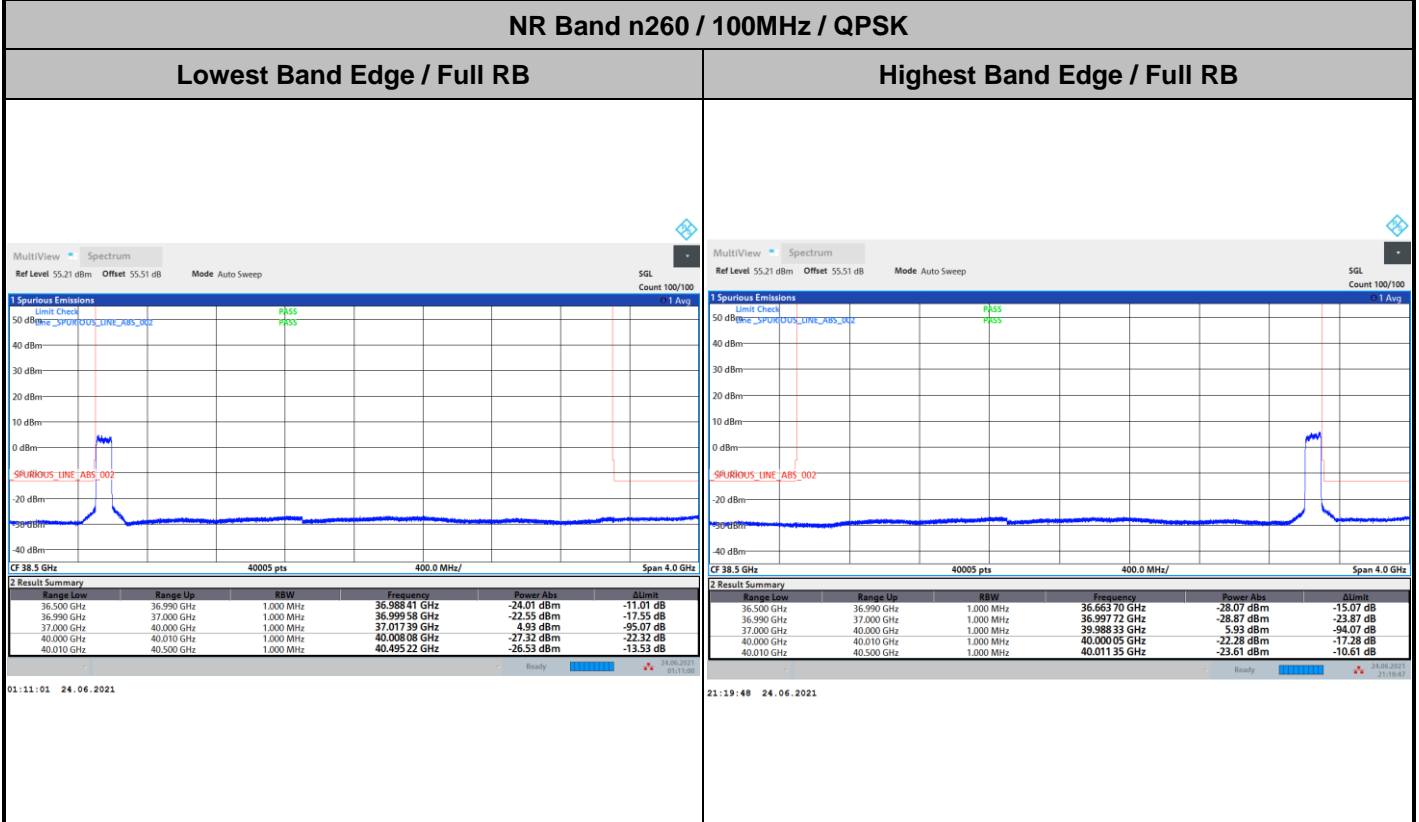
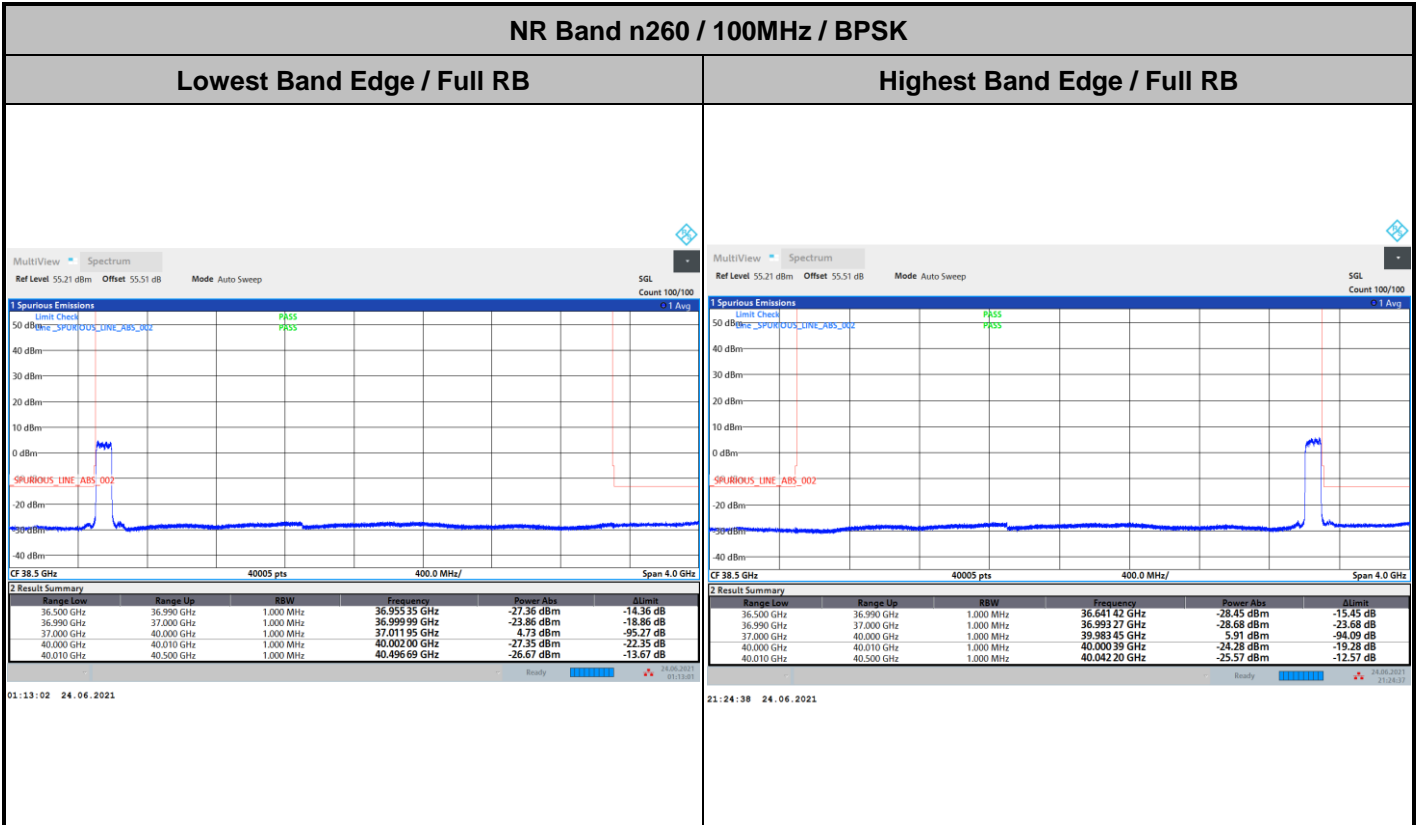


DFT-s-OFDM Module 0



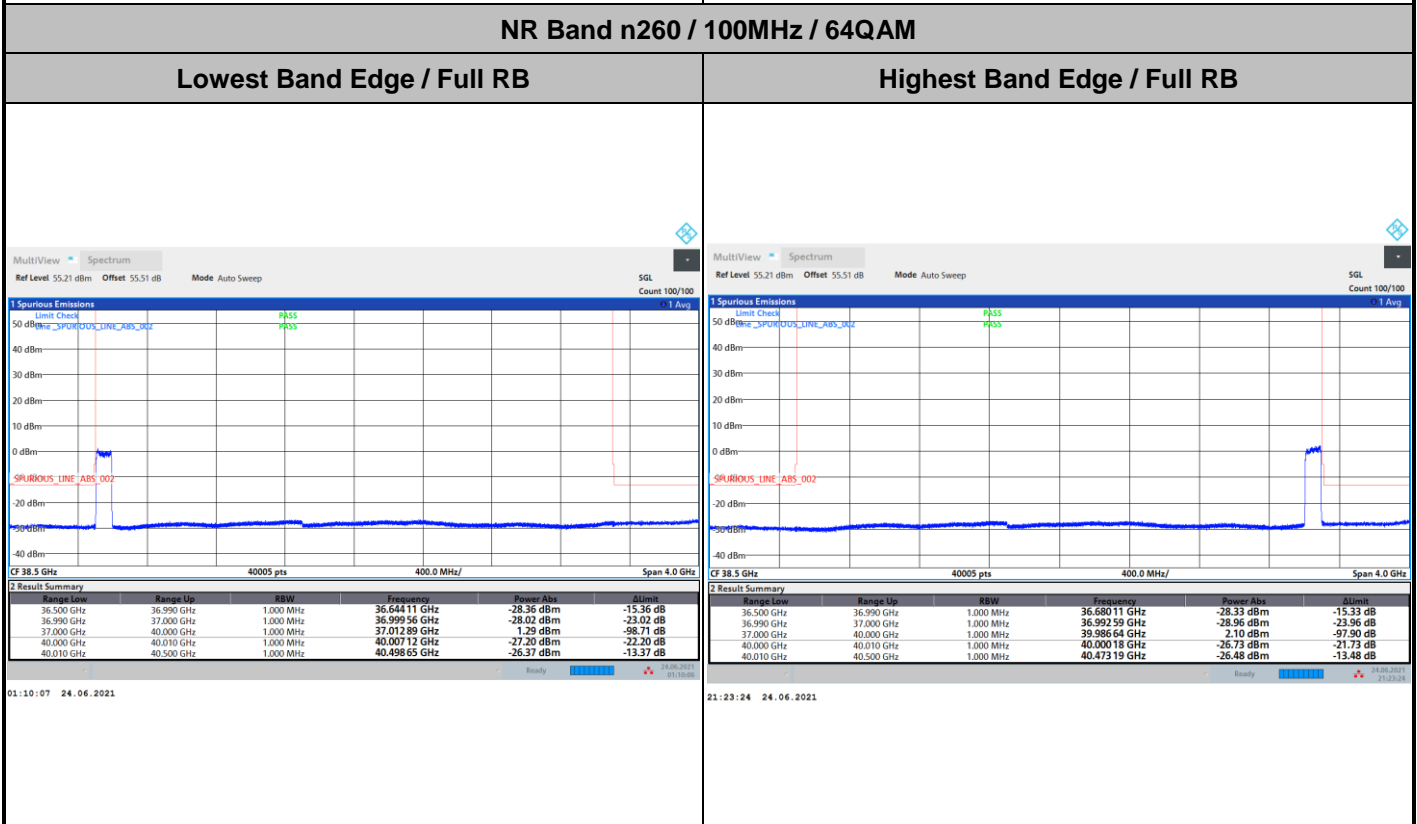
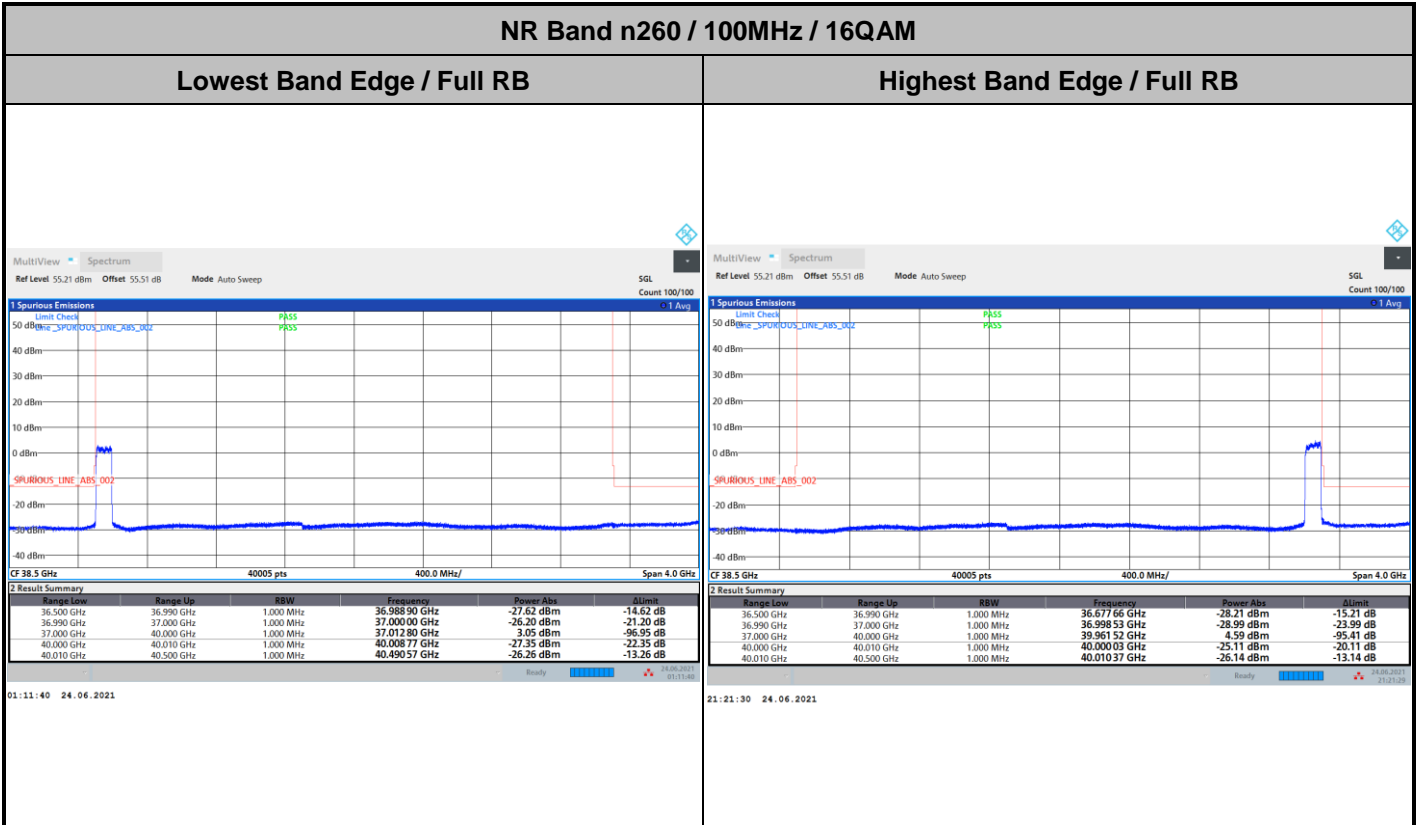


DFT-s-OFDM Module 0



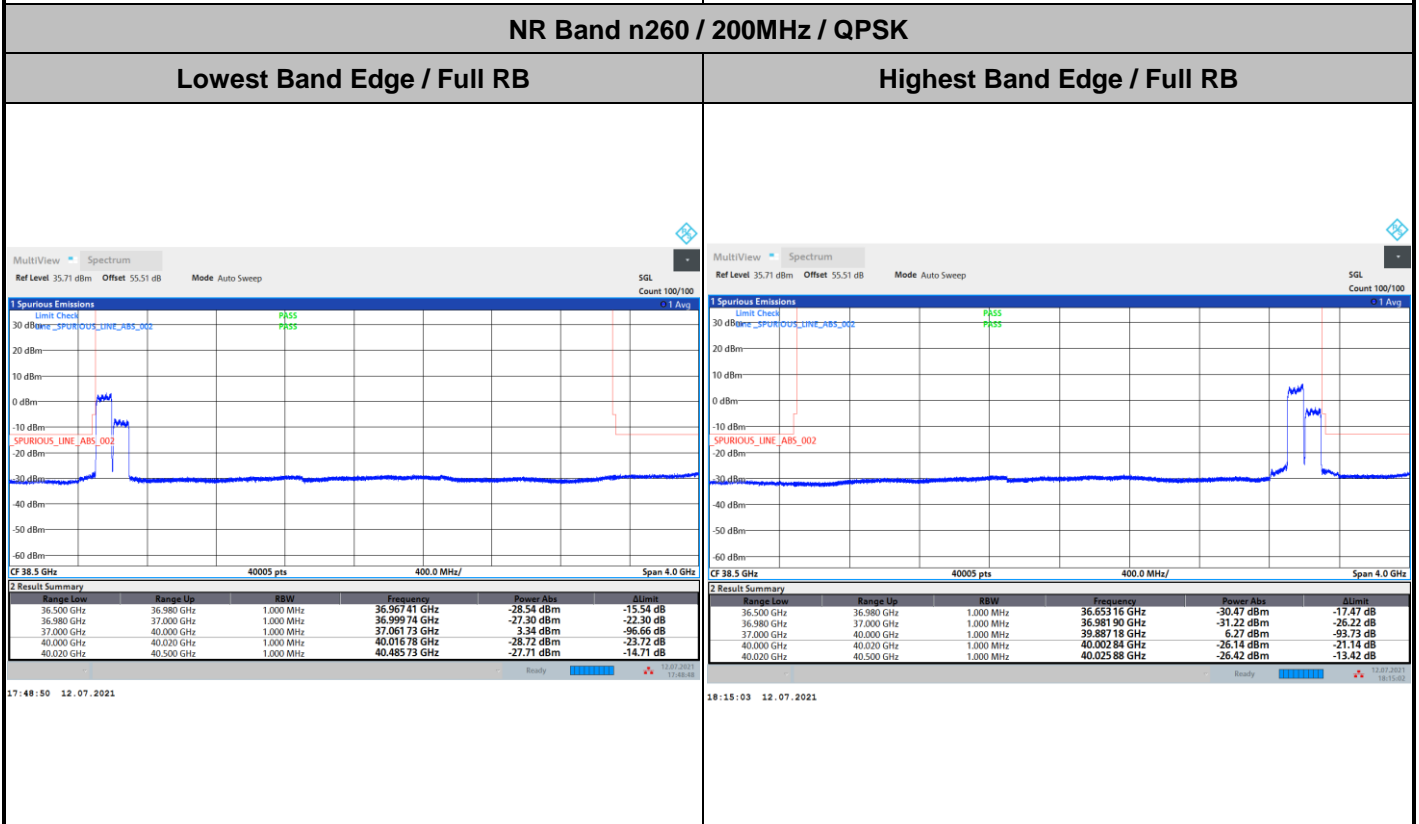
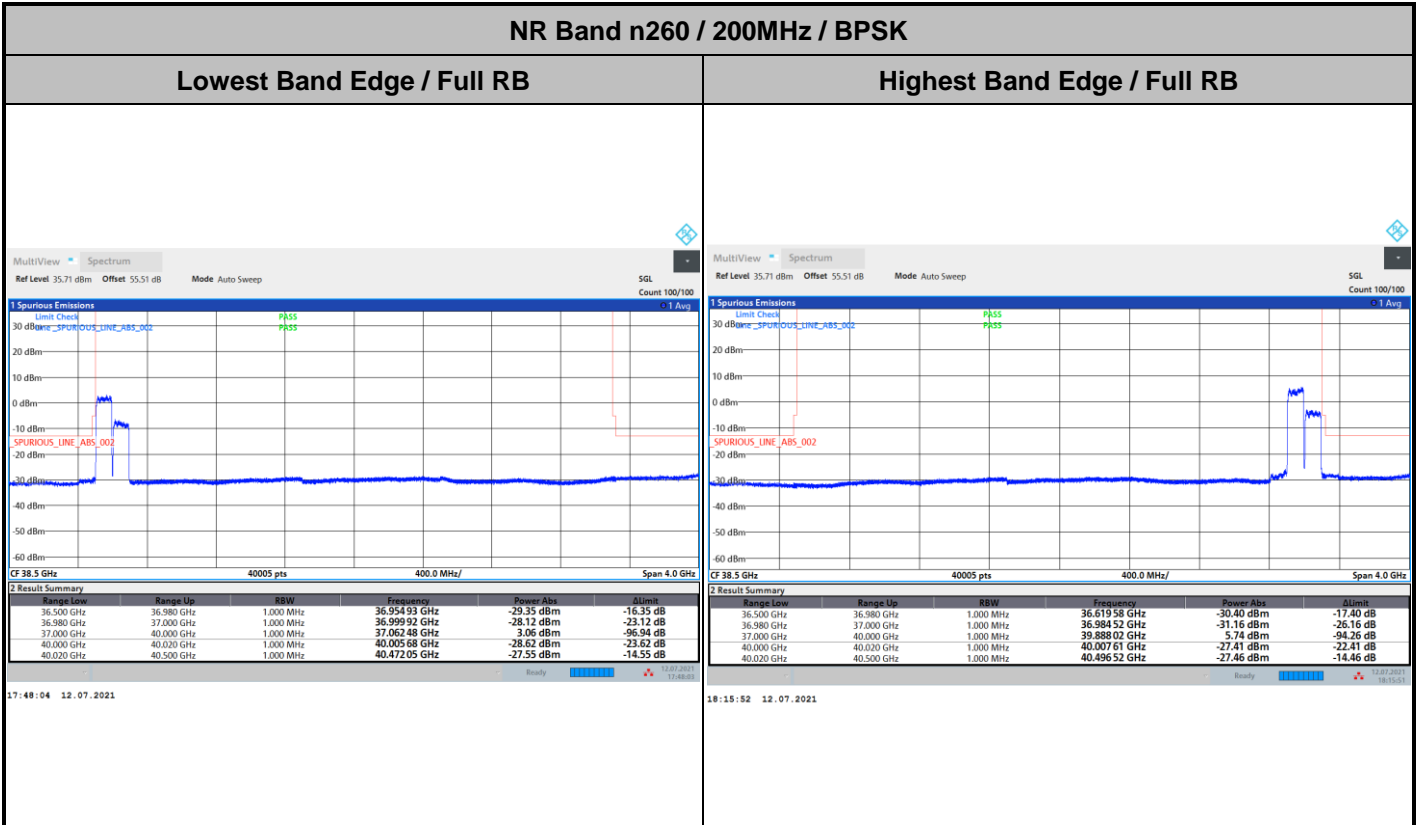


DFT-s-OFDM Module 0



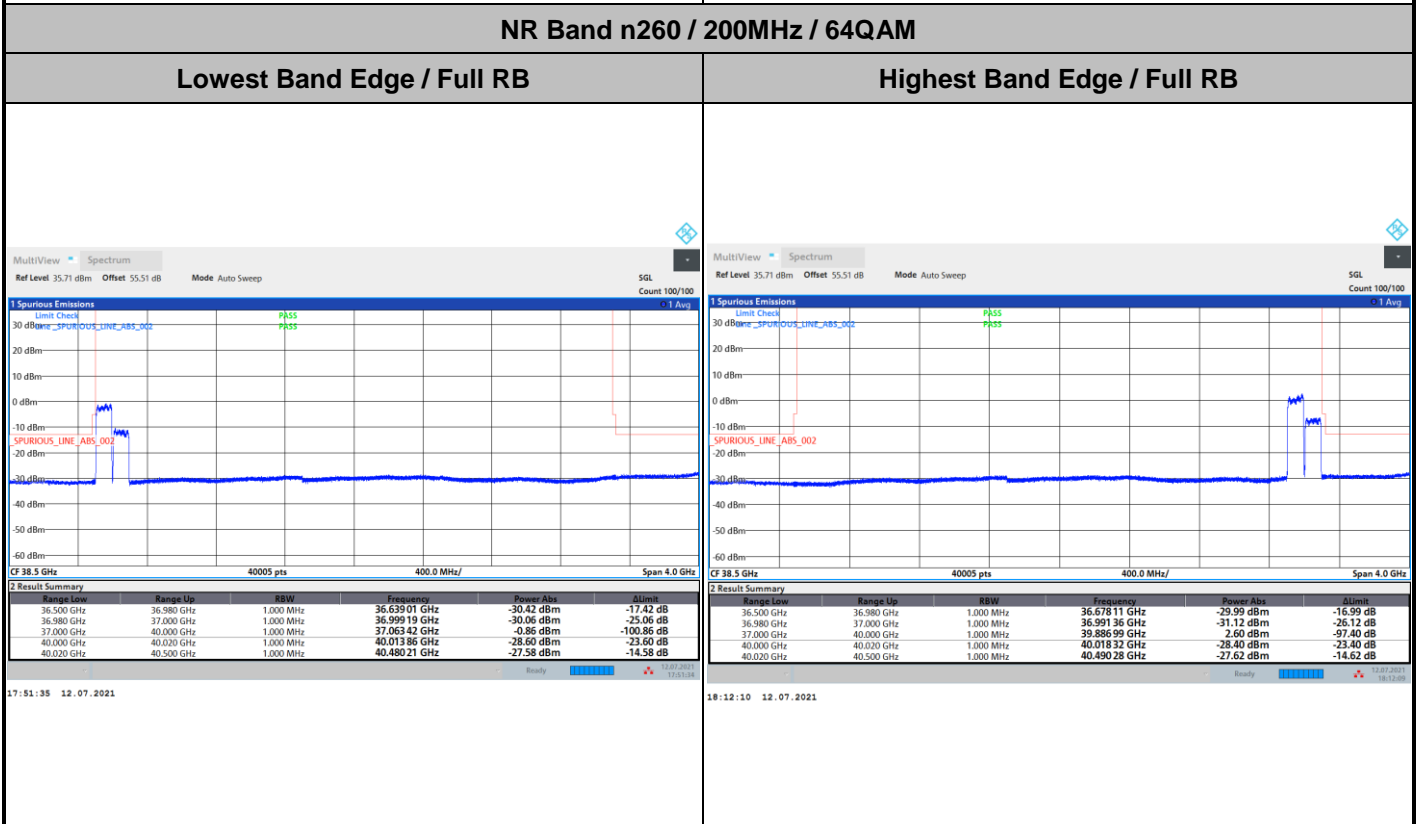
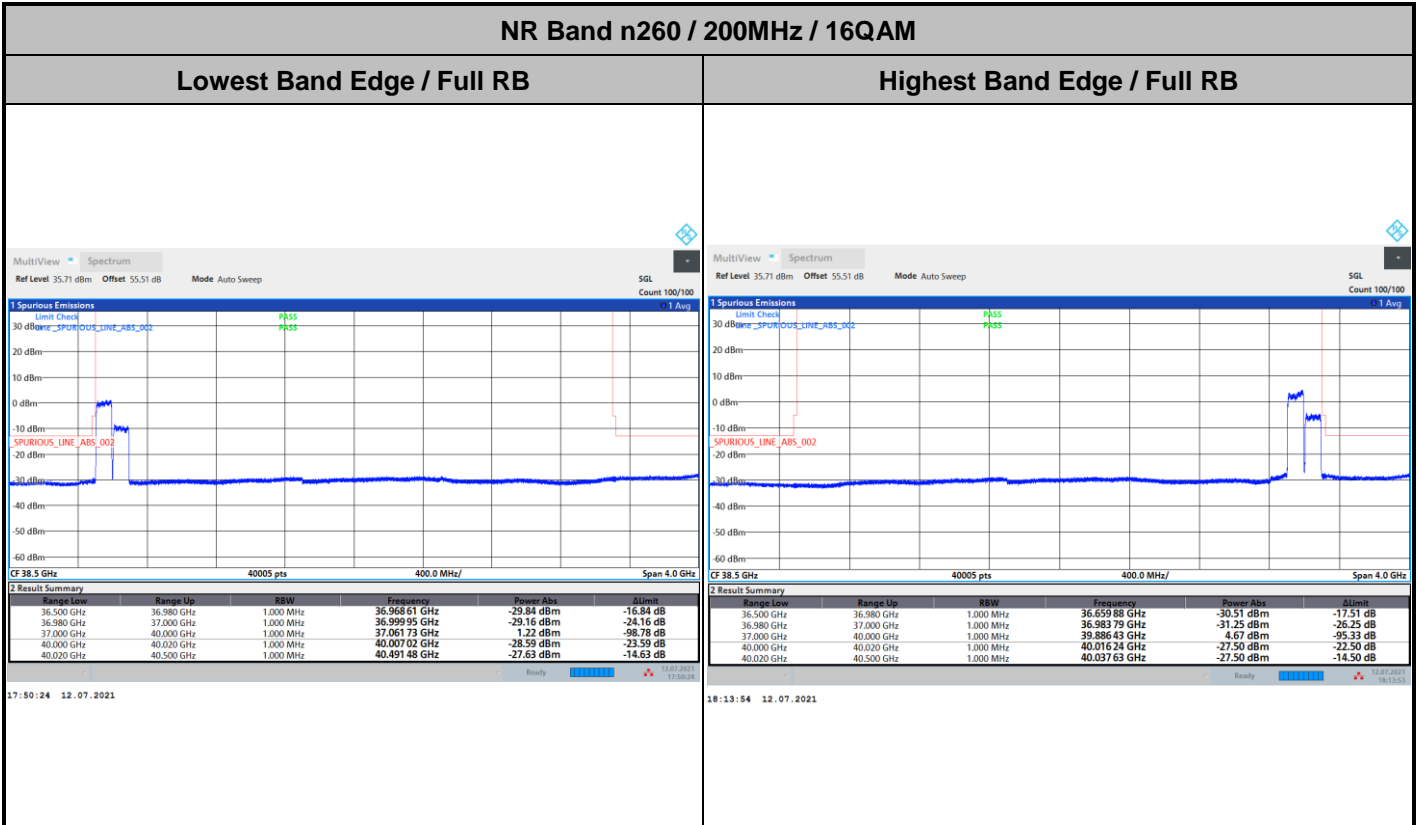


DFT-s-OFDM Module 0





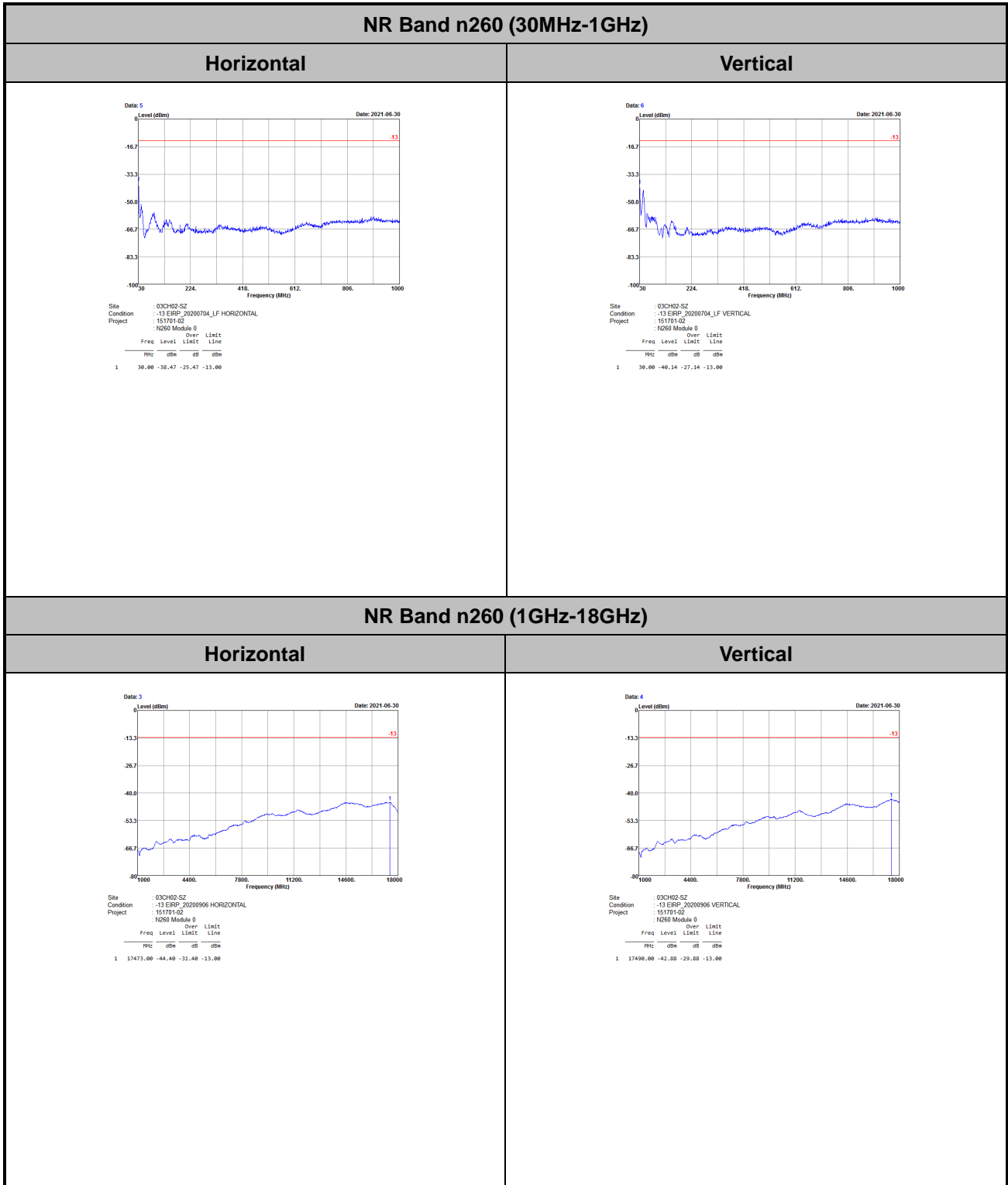
DFT-s-OFDM Module 0





Spurious Emission

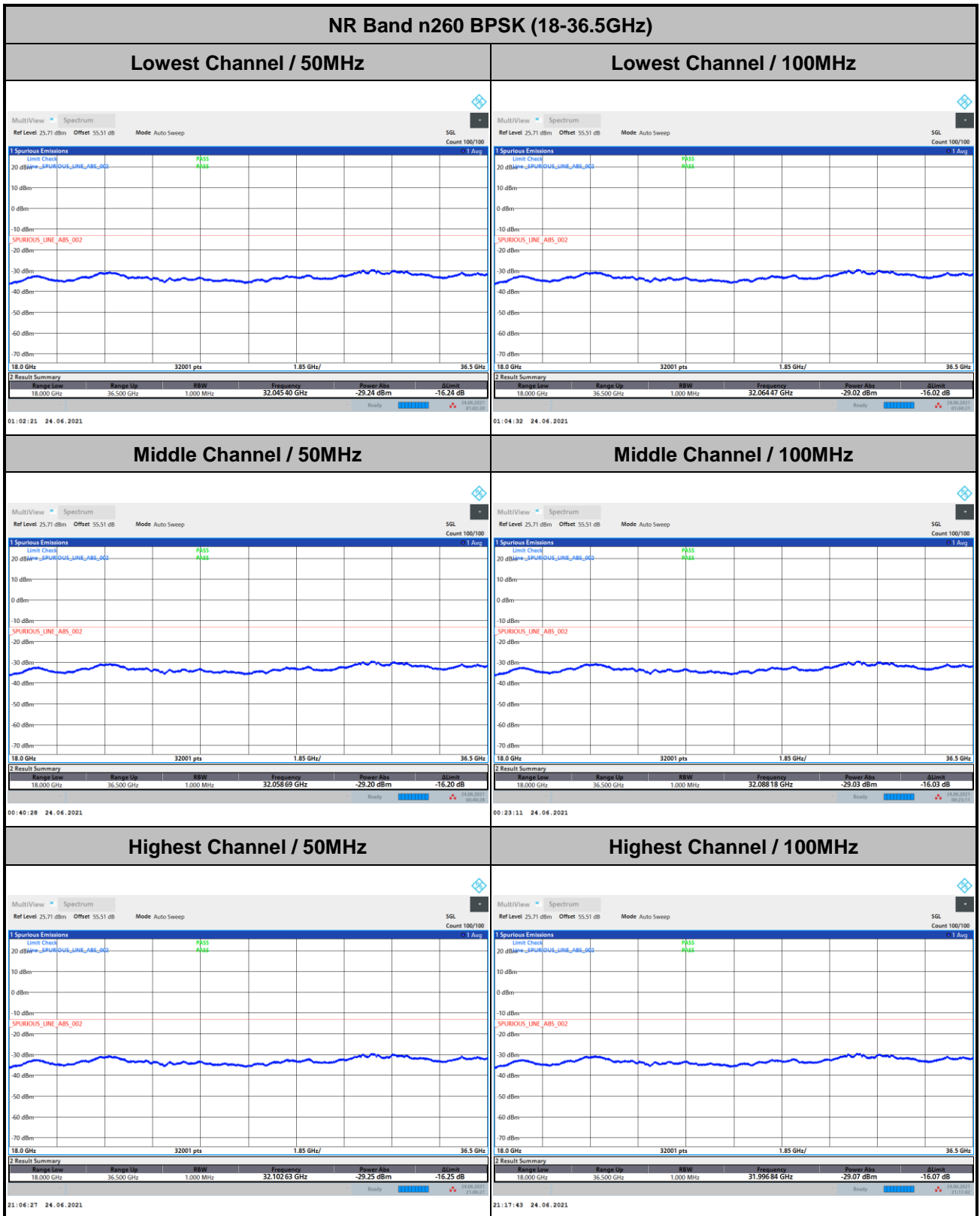
There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz. Only the noise floor is reported.





Spurious emission between 18GHz to 36.5GHz worst case plot is reported as following.

DFT-s-OFDM Module 0



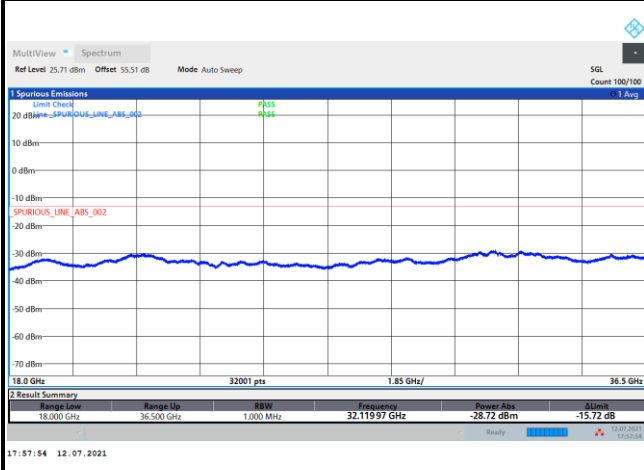
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 0

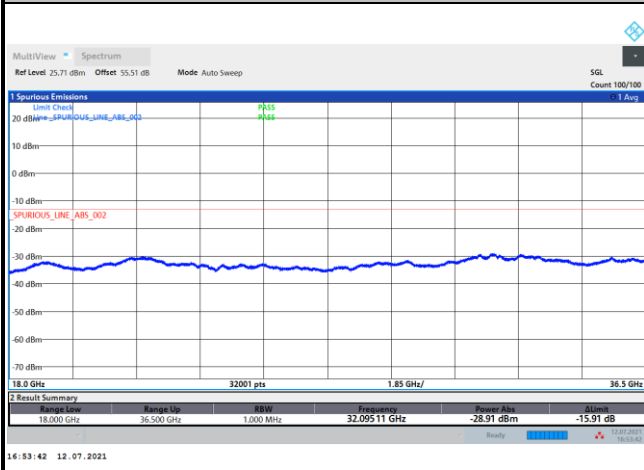
NR Band n260 BPSK (18-36.5GHz)

Lowest Channel / 200MHz



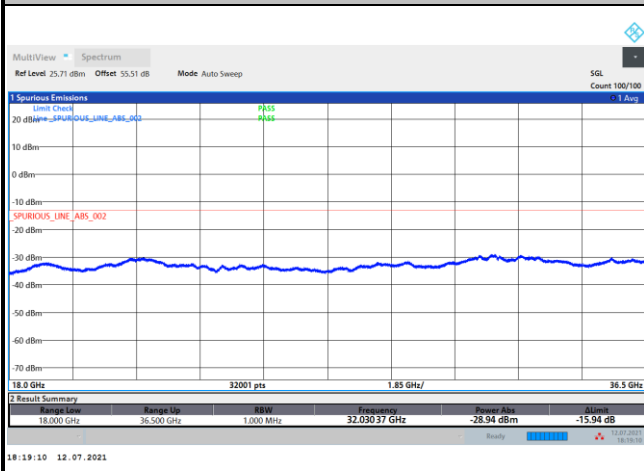
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz

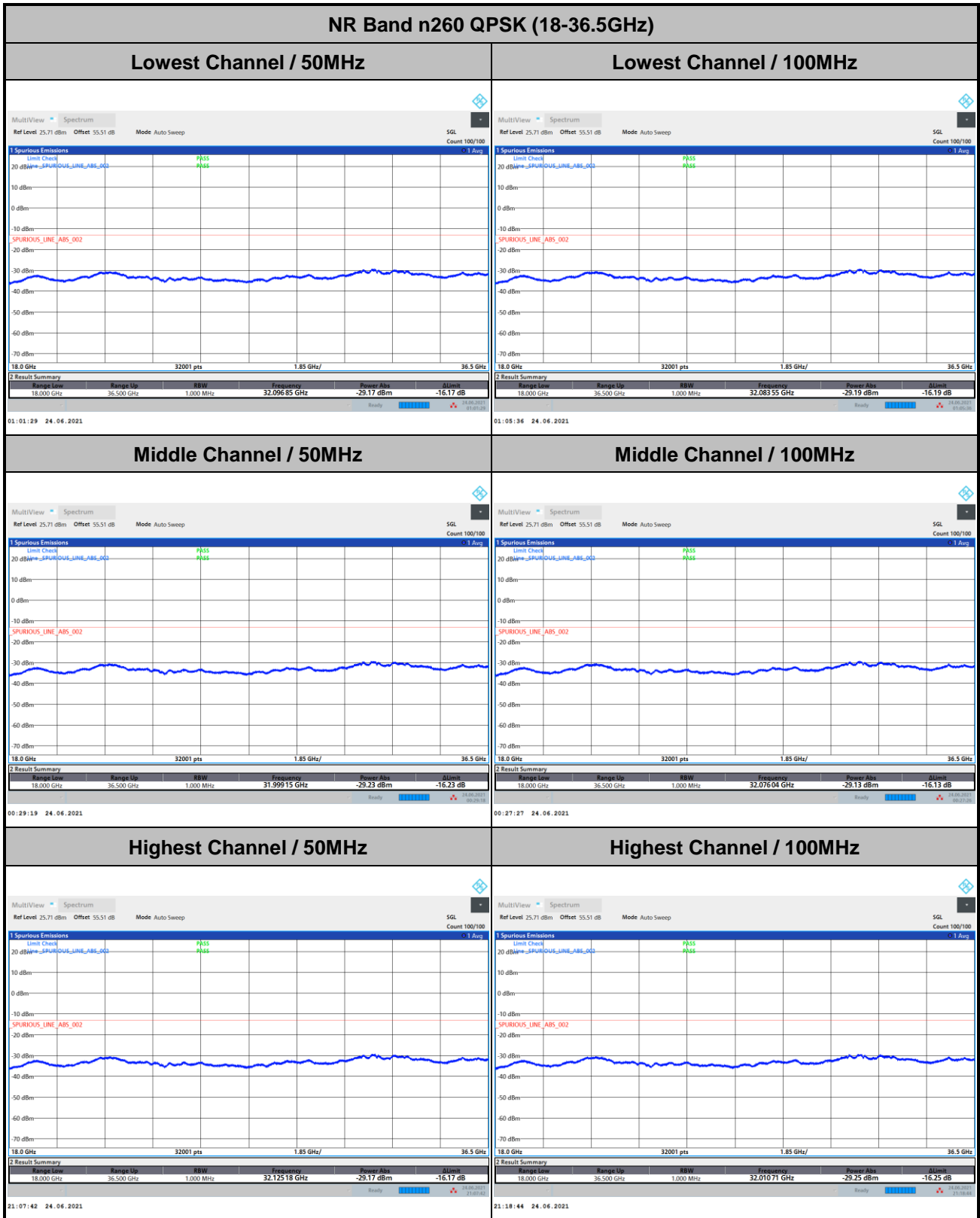


intentionally blank

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



DFT-s-OFDM Module 0



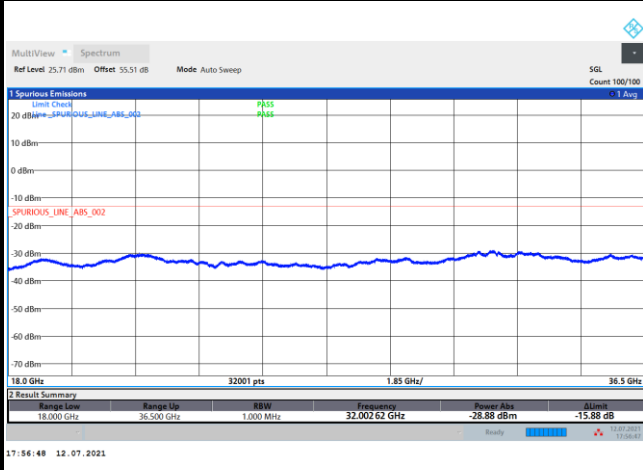
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 0

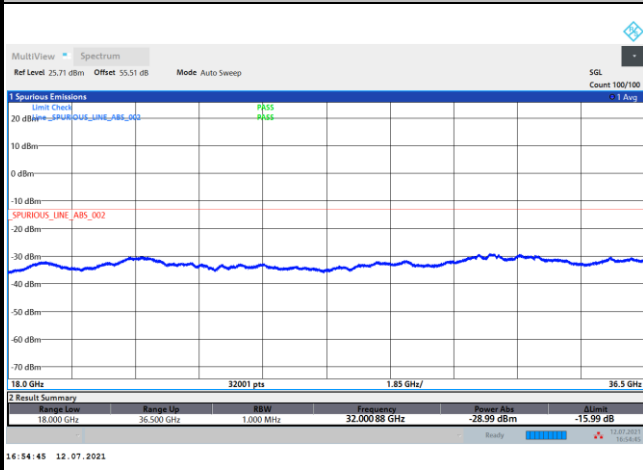
NR Band n260 QPSK (18-36.5GHz)

Lowest Channel / 200MHz



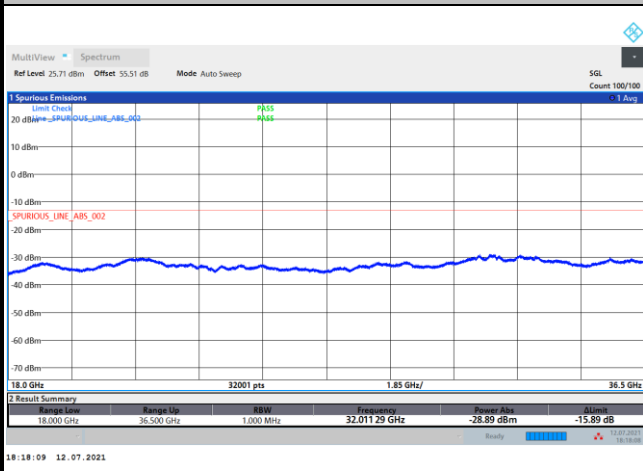
intentionally blank

Middle Channel / 200MHz



intentionally blank

Highest Channel / 200MHz

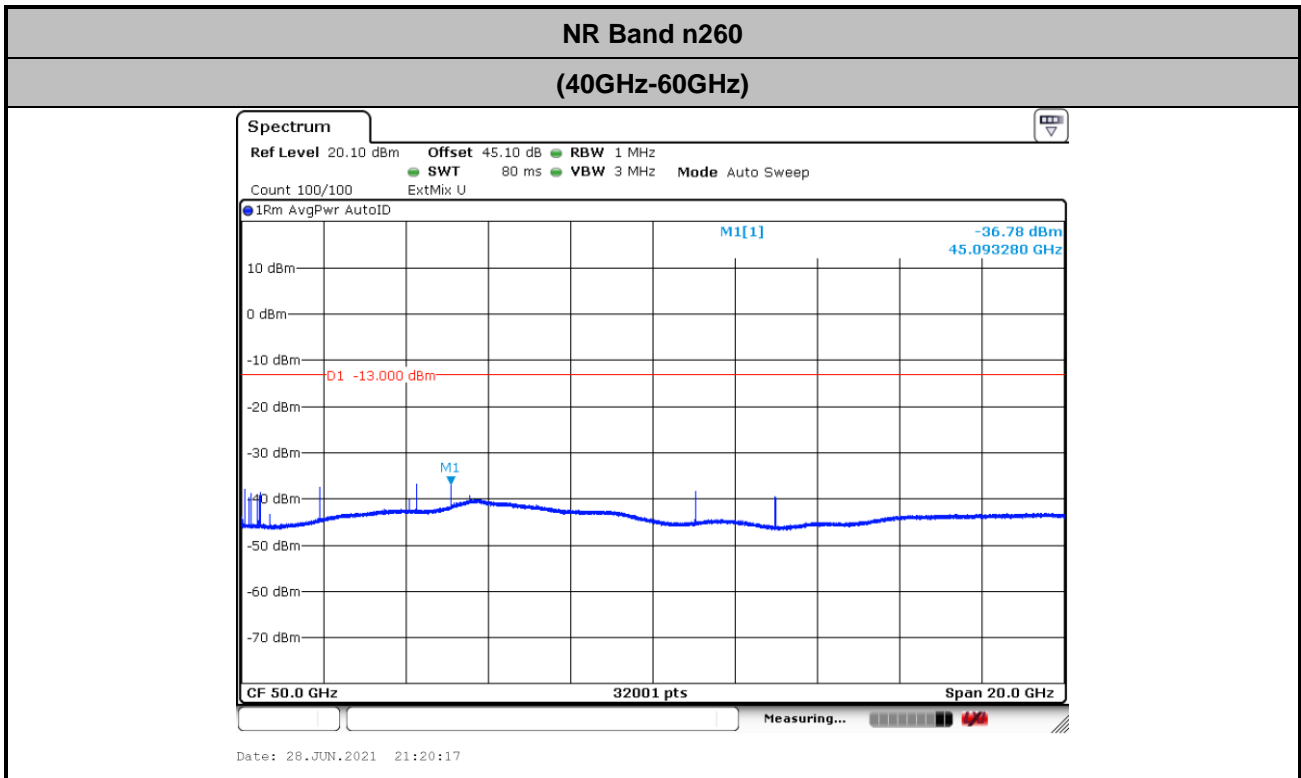


intentionally blank

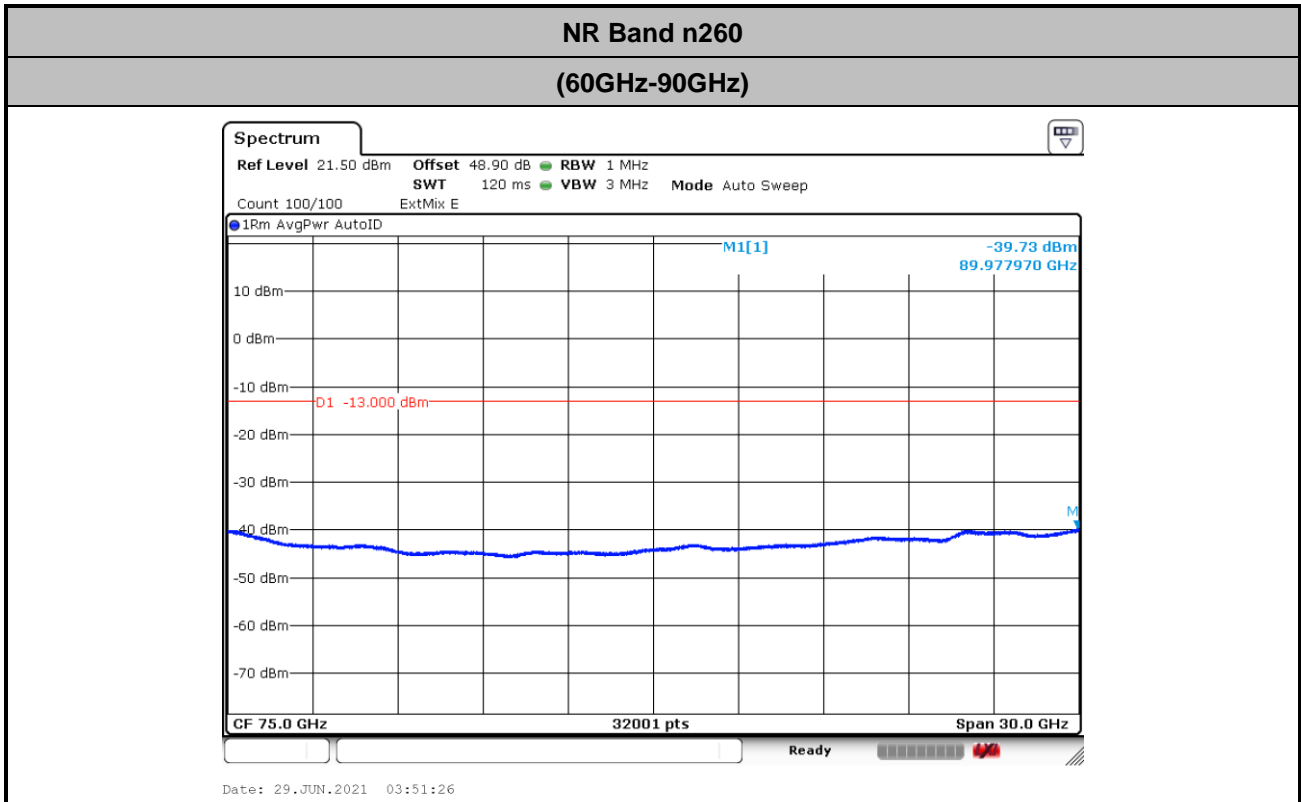
Remark: In band and out of band frequencies are omitted.



There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz. Only the noise floor is reported.

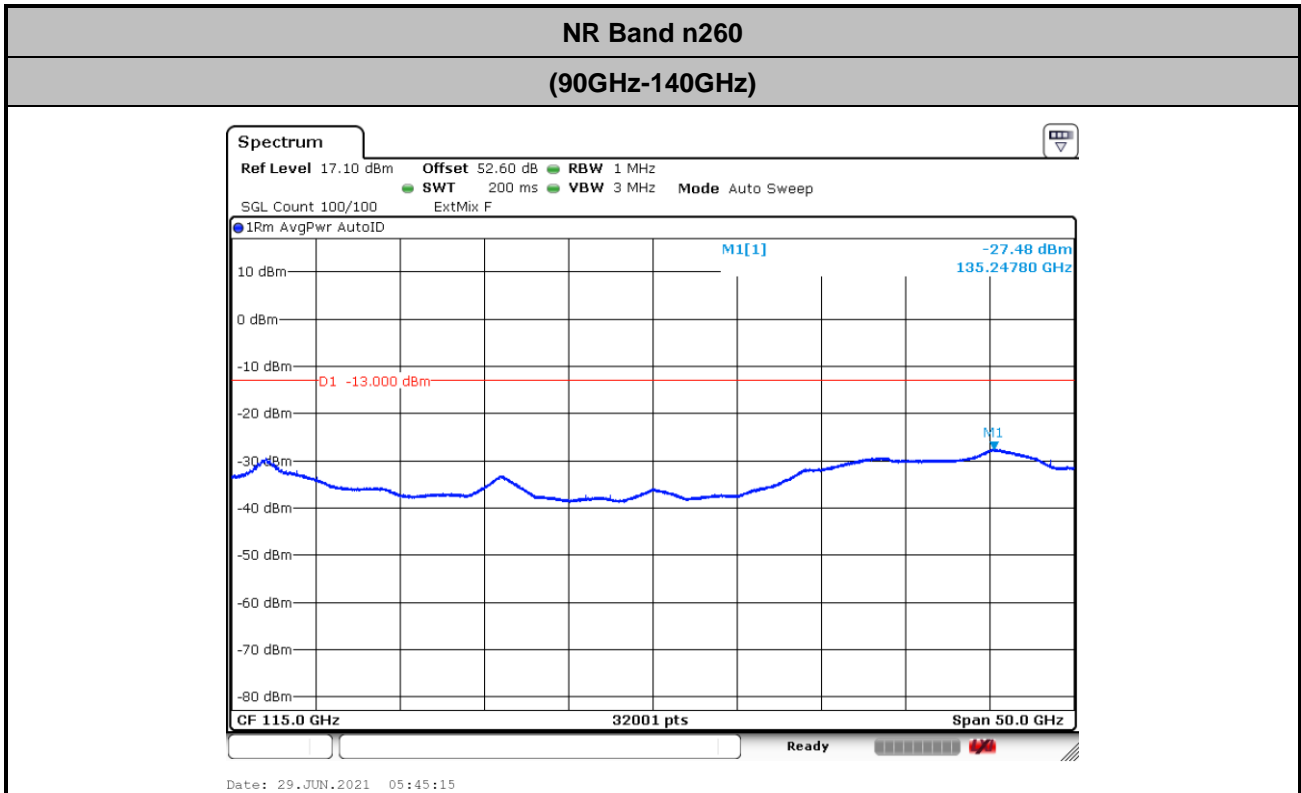


$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\
 &= 42.5 + 0.4 + 107 + 20\log(1) - 104.8 = 45.1 \text{ (dB)}
 \end{aligned}$$



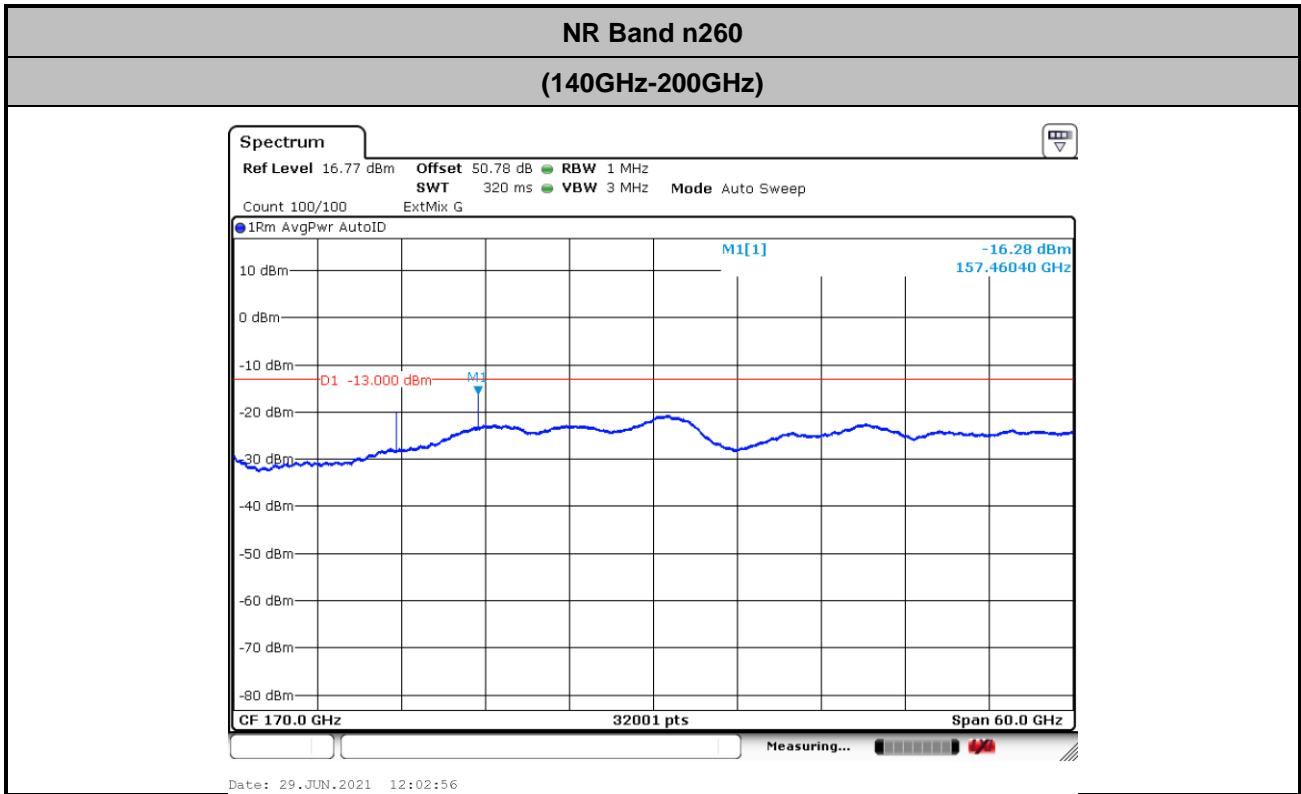
$$Offset = Antenna\ Factor\ (dB/m) + Cable\ Loss\ (dB) + 107 + 20\log(D) - 104.8$$

$$= 46.3 + 0.4 + 107 + 20\log(1) - 104.8 = 48.9\ (dB)$$



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

$$= 50 + 0.4 + 107 + 20\log(1) - 104.8 = 52.6 \text{ (dB)}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 54.2 + 2 + 107 + 20\log(0.5) - 104.8 = 50.78 \text{ (dB)} \end{aligned}$$

Remark: The spurious emissions were measured from 18GHz to 36.5GHz and 40GHz to 200GHz. The test results within the omitted frequency 36.5GHz to 40GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 36.5GHz to 40GHz, and all spurious comply with limits.



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	38.4999074	92.600	2.405	PASS
40	Normal Voltage	38.4999062	93.800	2.436	
30	Normal Voltage	38.4999377	62.300	1.618	
20(Ref.)	Normal Voltage	38.5	0.000	0.000	
10	Normal Voltage	38.5001713	-171.300	4.449	
0	Normal Voltage	38.5002246	-224.600	5.834	
-10	Normal Voltage	38.5002952	-295.200	7.668	
-20	Normal Voltage	38.5003114	-311.400	8.088	
-30	Normal Voltage	38.5003288	-328.800	8.540	
20	Maximum Voltage	38.50000217	-2.170	0.056	
20	Normal Voltage	38.5	0.000	0.000	
20	Battery End Point	38.49999349	6.510	0.169	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the operation band.



NR Band n260 Module 0

AG0+1

Occupied Bandwidth

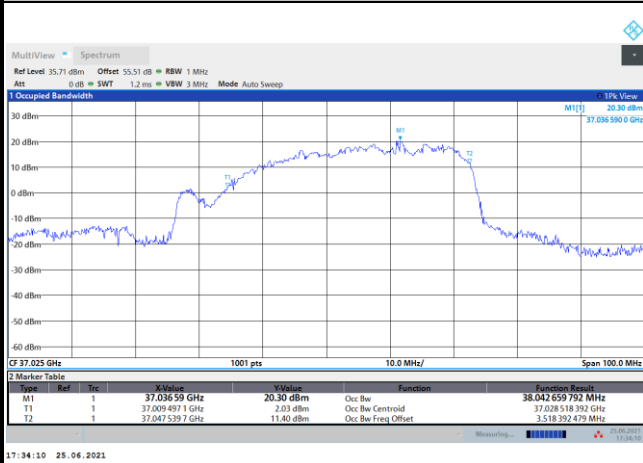
Mode	DFT-s-OFDM Module 0 NR Band n260 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	38.04	39.79	40.15	40.06	83.45	84.07	83.56	83.71	187.98	188.19	188.55	188.59
Middle CH	43.59	43.61	43.89	44.07	87.58	87.29	87.96	88.18	186.86	186.31	186.76	188.01
Highest CH	44.64	44.55	44.56	44.52	89.83	90.59	89.89	89.61	187.55	186.98	187.75	188.27



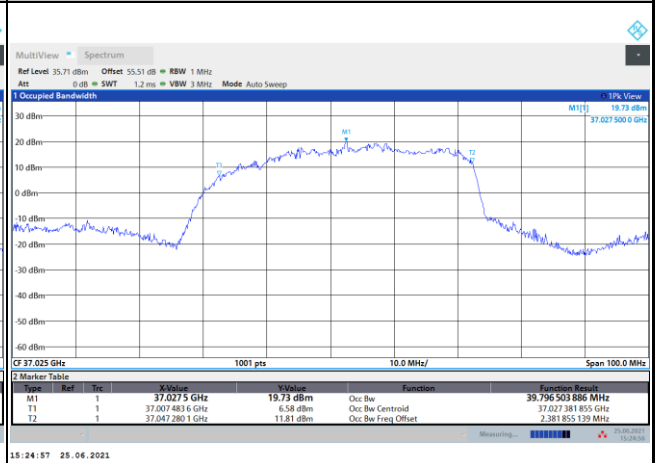
DFT-s-OFDM Module 0

NR Band n260

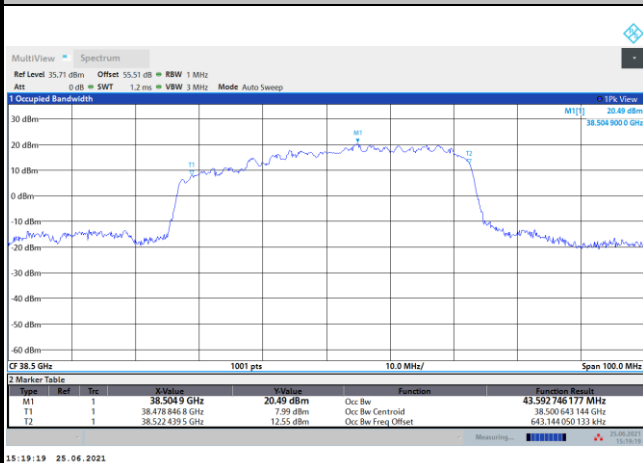
Lowest Channel / 50MHz / BPSK



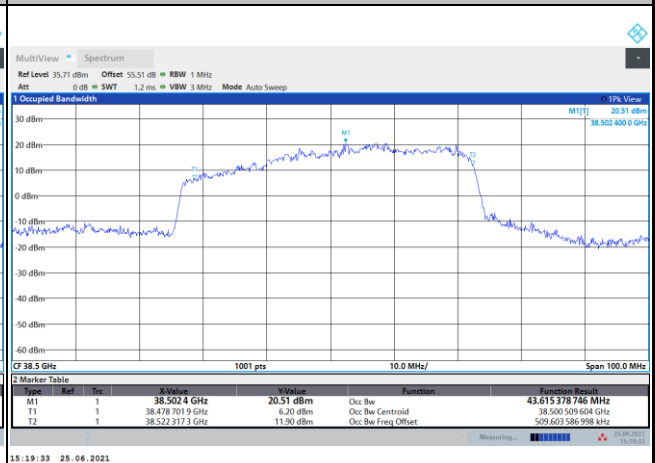
Lowest Channel / 50MHz / QPSK



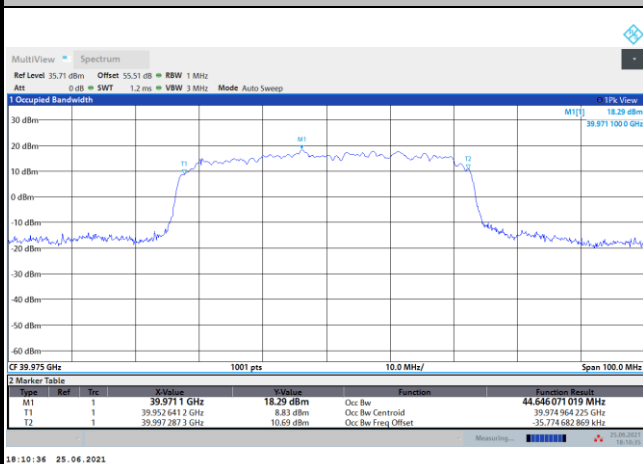
Middle Channel / 50MHz / BPSK



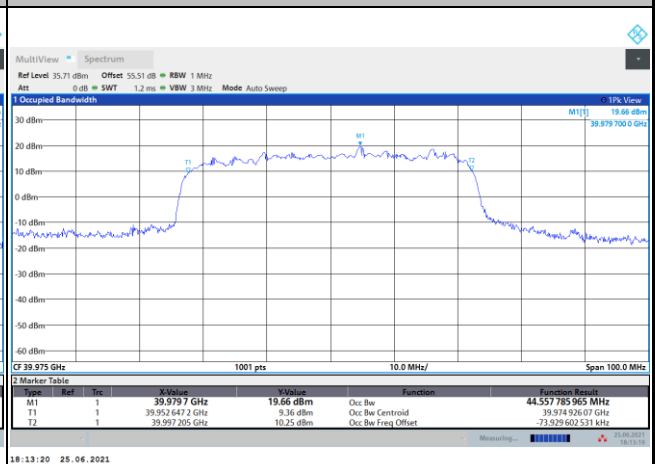
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

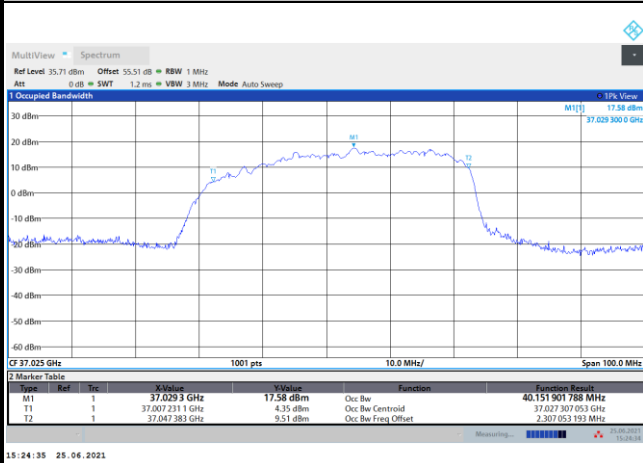




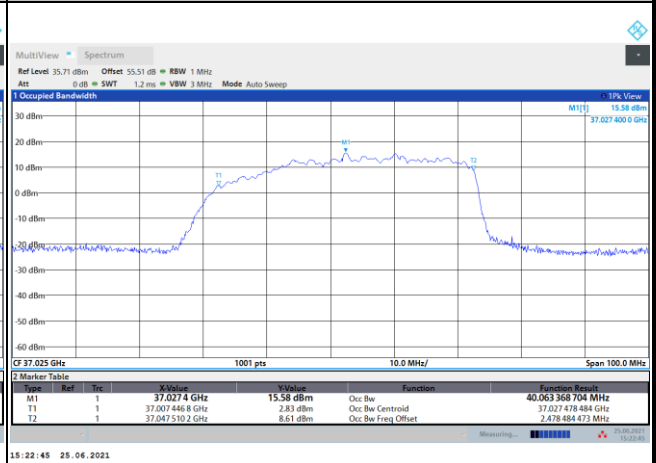
DFT-s-OFDM Module 0

NR Band n260

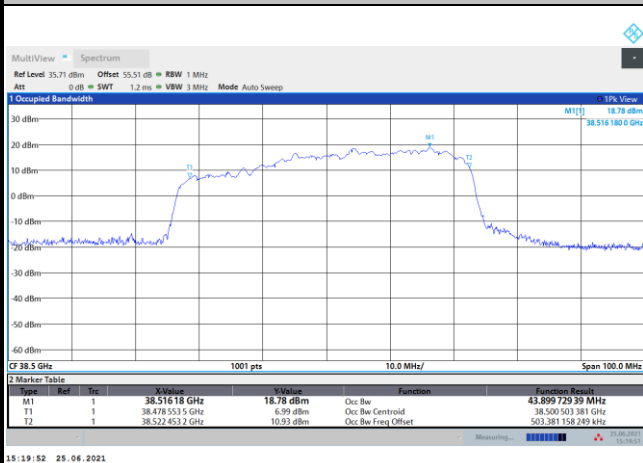
Lowest Channel / 50MHz / 16QAM



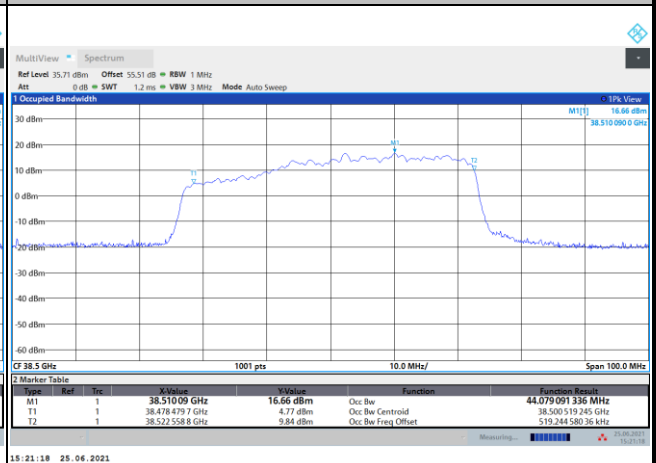
Lowest Channel / 50MHz / 64QAM



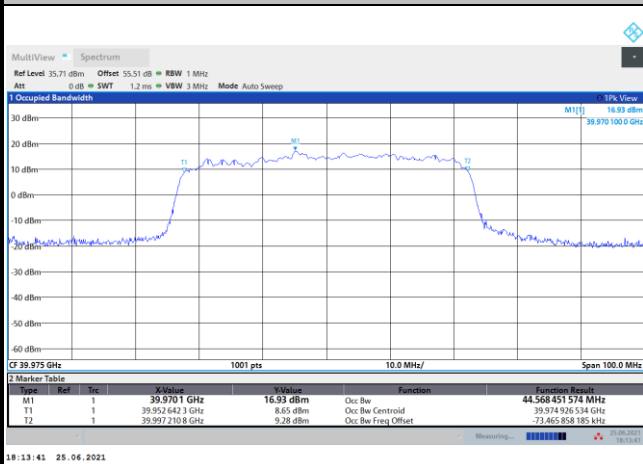
Middle Channel / 50MHz / 16QAM



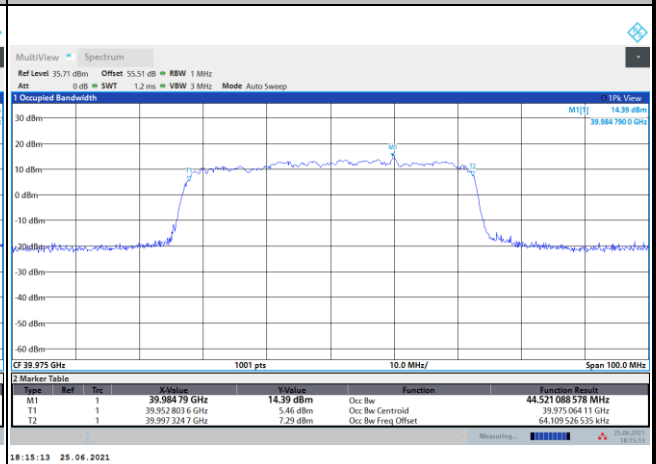
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

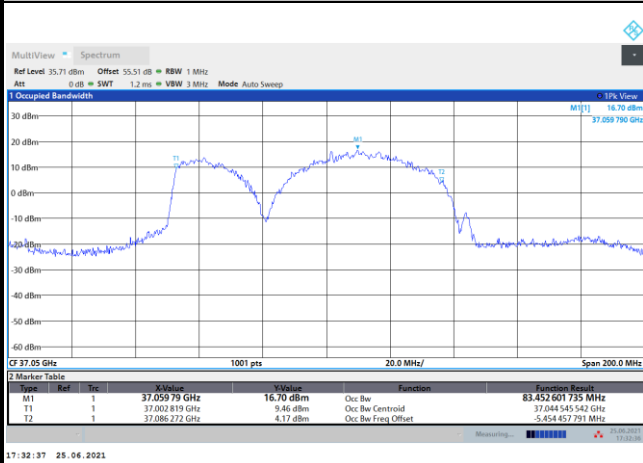




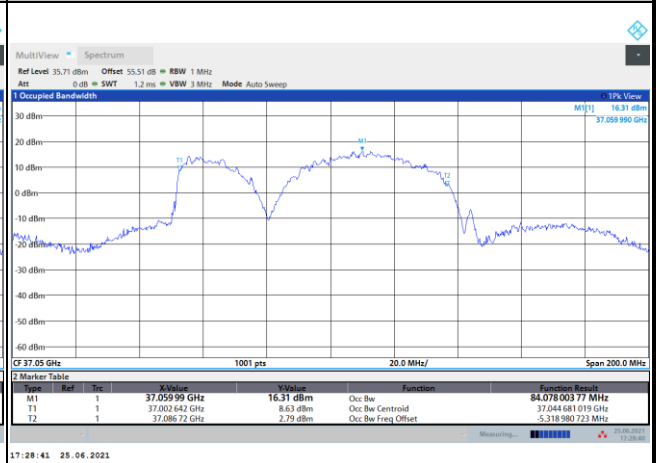
DFT-s-OFDM Module 0

NR Band n260

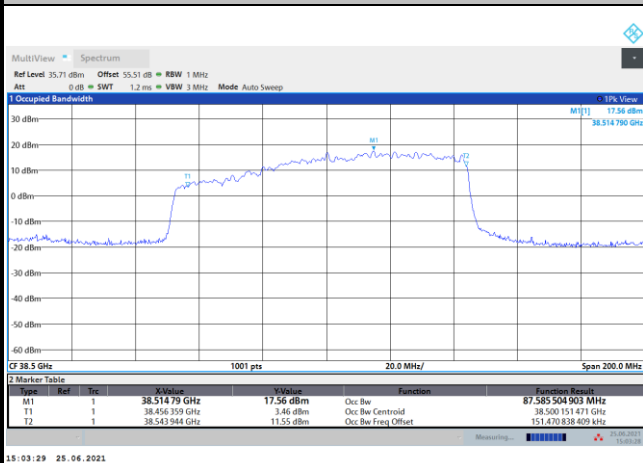
Lowest Channel / 100MHz / BPSK



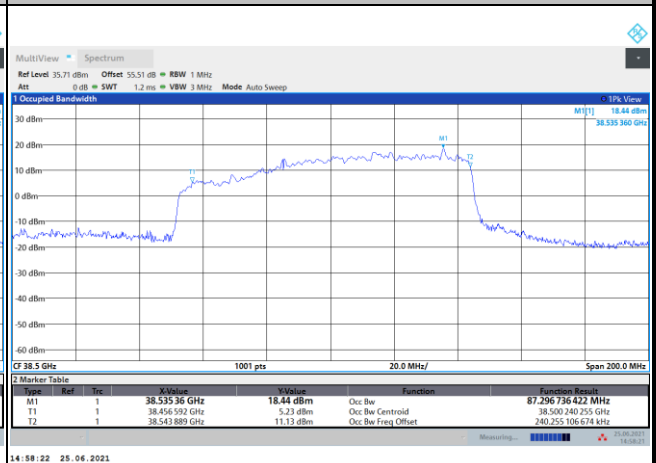
Lowest Channel / 100MHz / QPSK



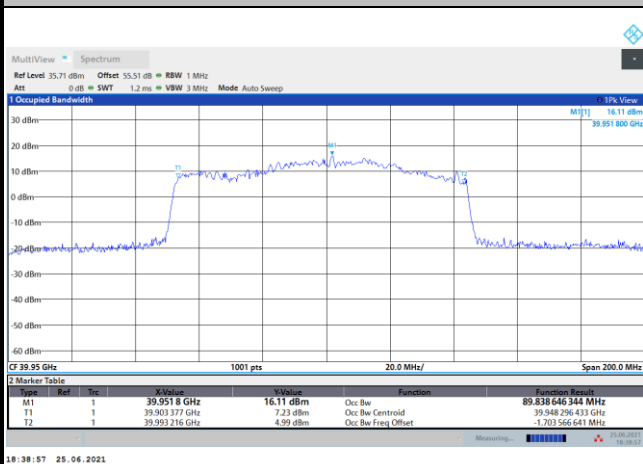
Middle Channel / 100MHz / BPSK



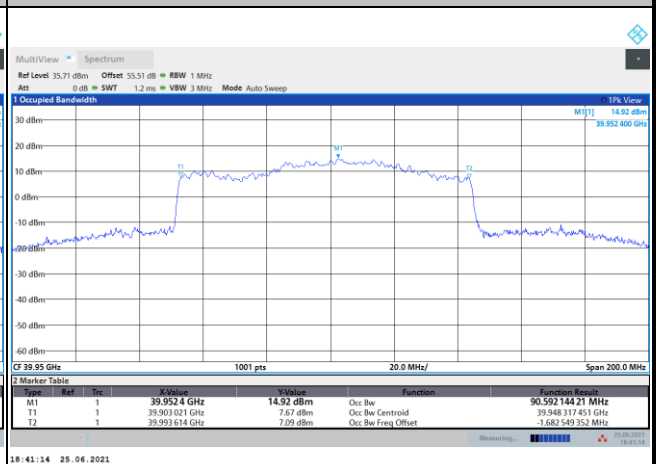
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

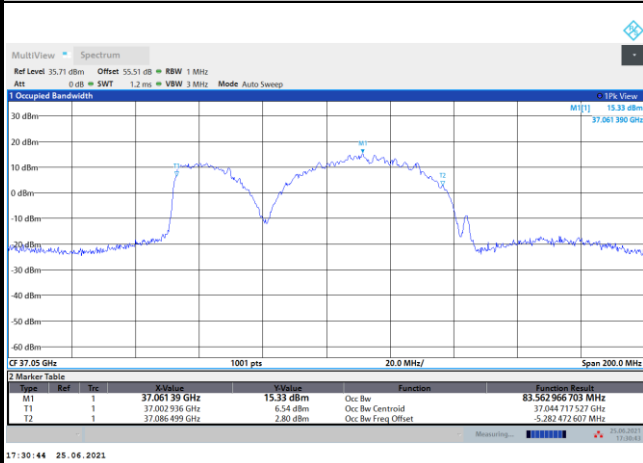




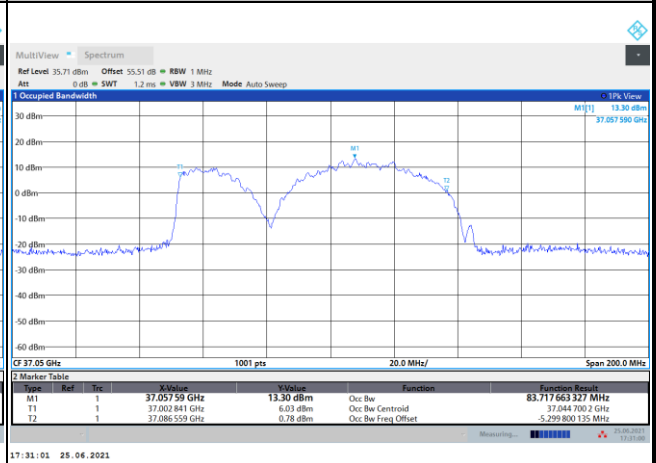
DFT-s-OFDM Module 0

NR Band n260

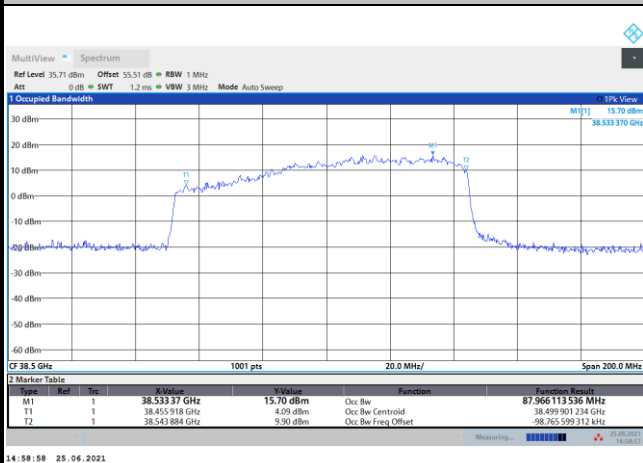
Lowest Channel / 100MHz / 16QAM



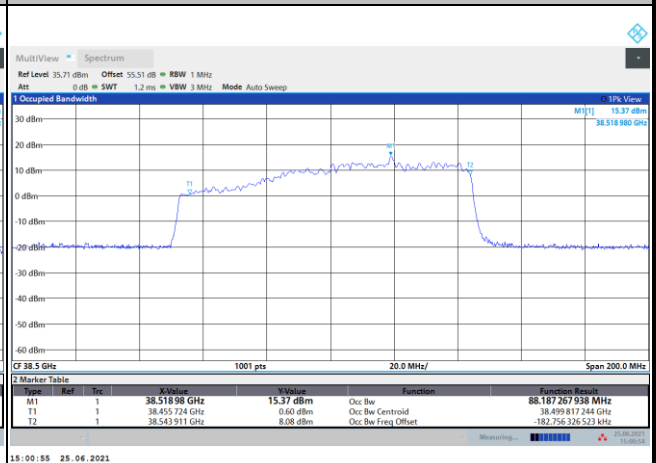
Lowest Channel / 100MHz / 64QAM



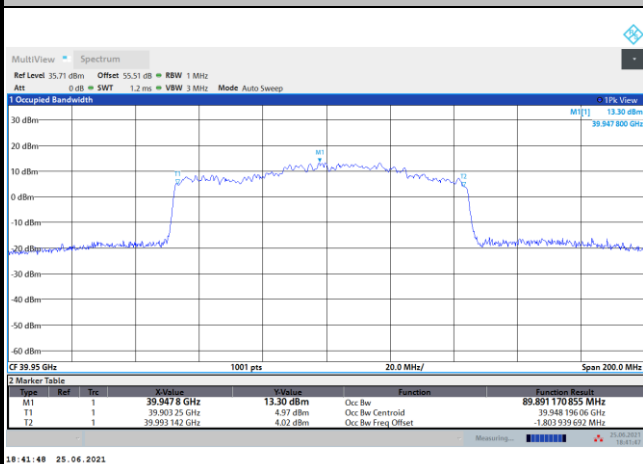
Middle Channel / 100MHz / 16QAM



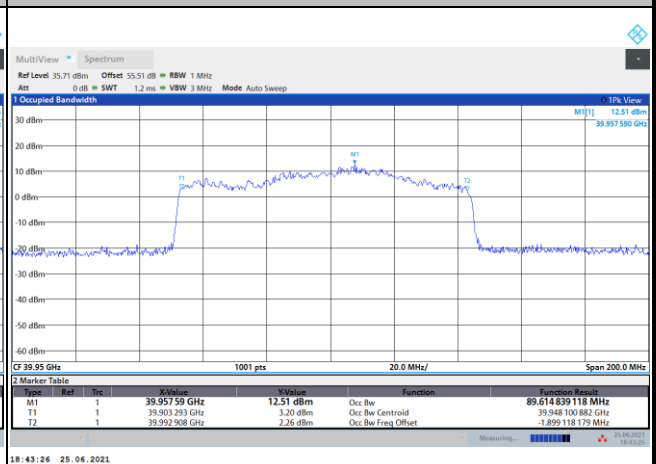
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

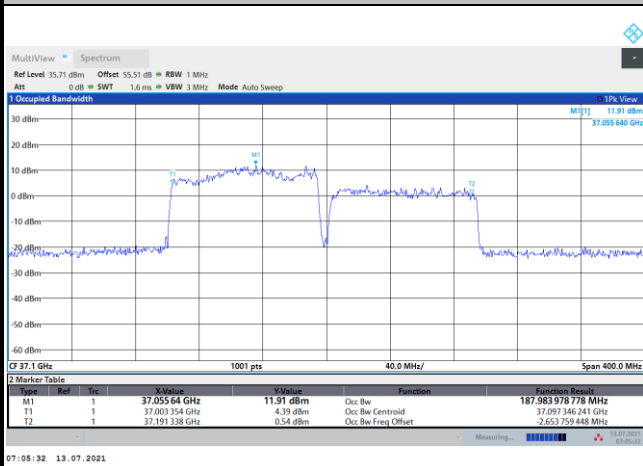




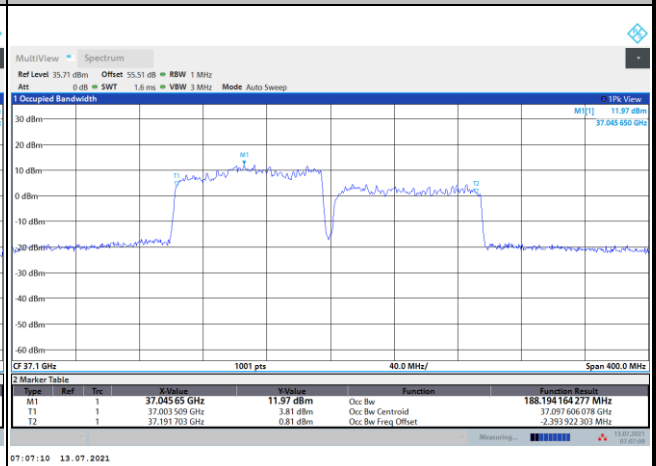
DFT-s-OFDM Module 0

NR Band n260

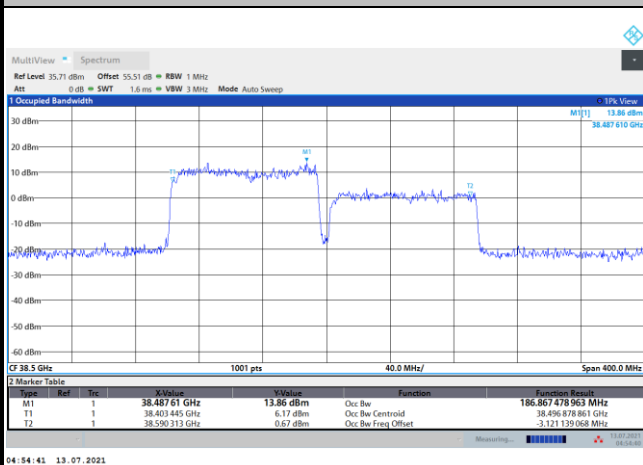
Lowest Channel / 200MHz / BPSK



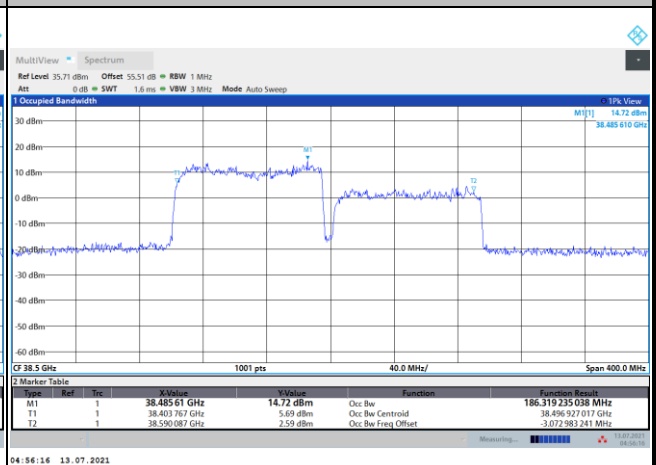
Lowest Channel / 200MHz / QPSK



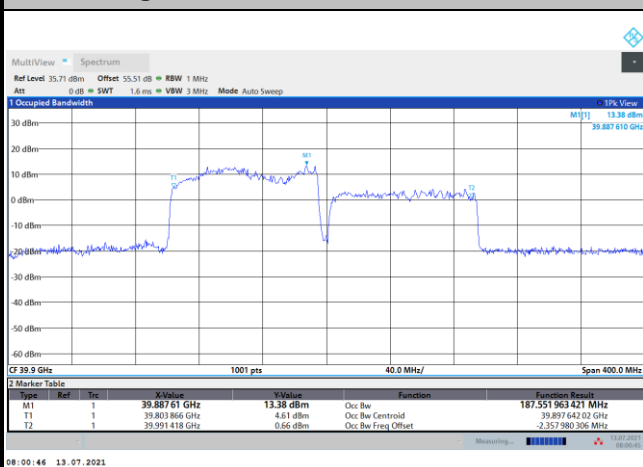
Middle Channel / 200MHz / BPSK



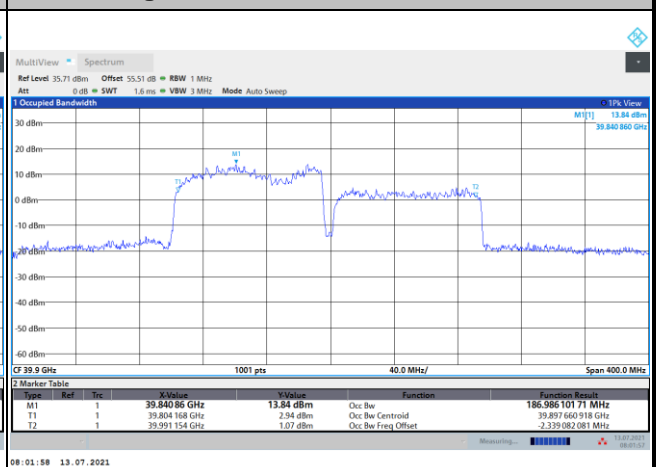
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

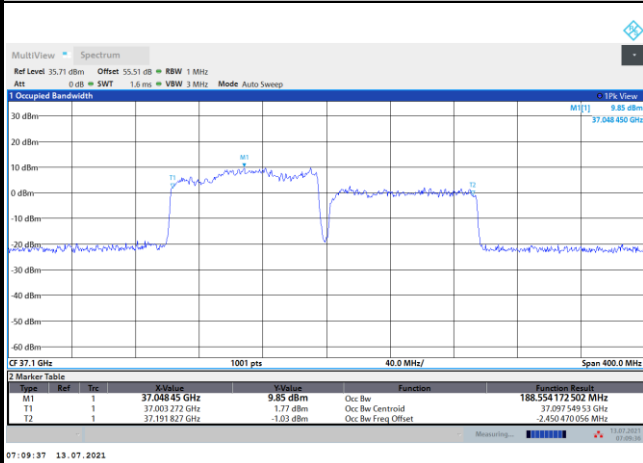




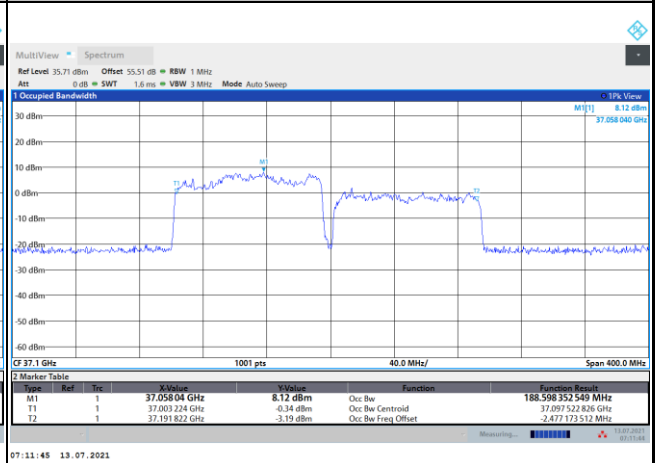
DFT-s-OFDM Module 0

NR Band n260

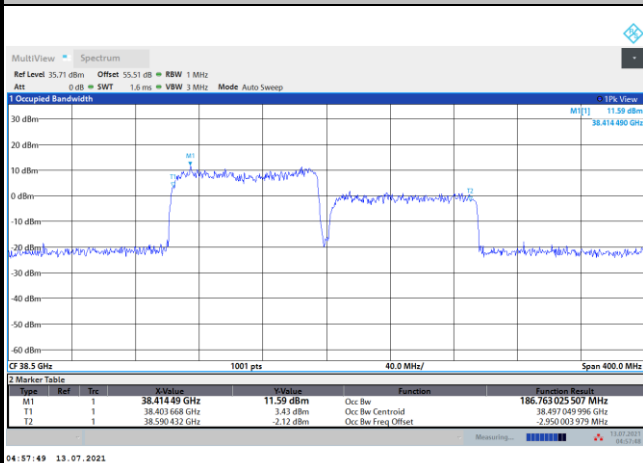
Lowest Channel / 200MHz / 16QAM



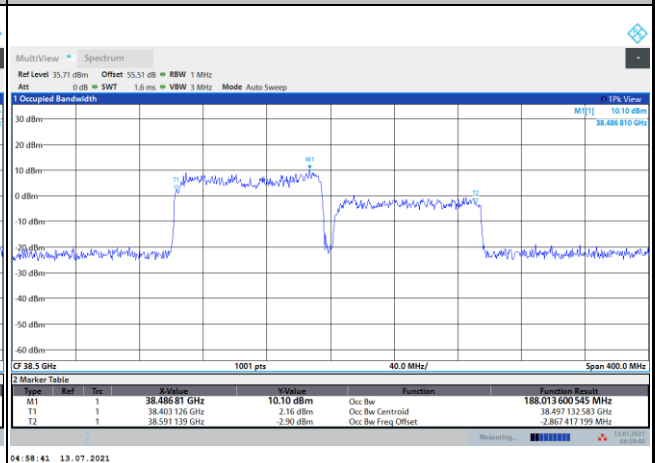
Lowest Channel / 200MHz / 64QAM



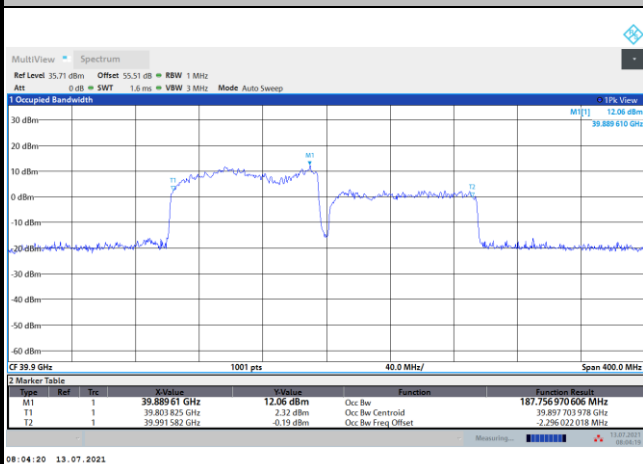
Middle Channel / 200MHz / 16QAM



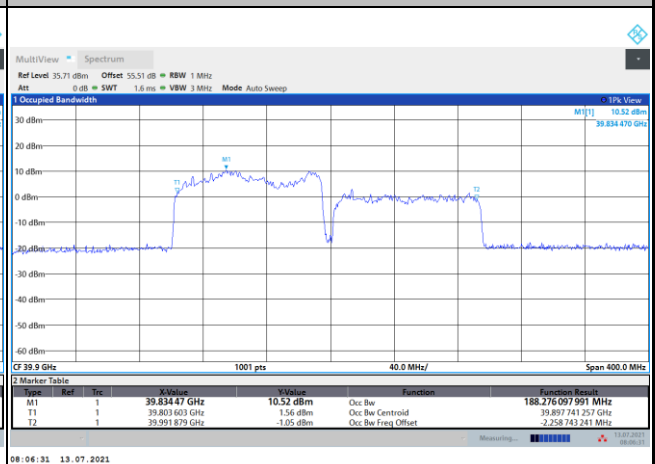
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM





Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 0 NR Band n260 : BE (dBm) 1 RB											
BW			50MHz				100MHz				200MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≅ -5	-21.22	-22.16	-21.15	-25.09	-8.72	-8.40	-8.62	-21.99	-16.27	-15.32	-16.97	-27.85
	>10%OB	≅ -13	-29.32	-29.36	-28.93	-30.24	-25.92	-25.97	-26.12	-28.10	-29.23	-28.6	-29.08	-16.98
High CH	0~10%OB	≅ -5	-12.99	-14.04	-15.75	-16.24	-12.75	-11.76	-12.49	-17.54	-27.2	-26.86	-26.84	-26.49
	>10%OB	≅ -13	-19.62	-19.46	-20.75	-22.37	-25.12	-25.23	-25.57	-26.50	-27.28	-26.85	-27.28	-27.27
Result			Compliance											

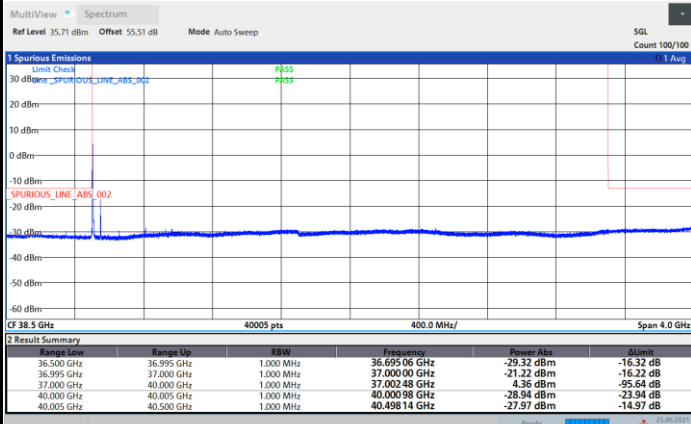
Mode			DFT-s-OFDM Module 0 NR Band n260 : BE (dBm) Full RB											
BW			50MHz				100MHz				200MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≅ -5	-27.61	-23.59	-26.58	-29.85	-14.04	-14.04	-14.04	-14.04	-27.14	-26.32	-28.75	-30.1
	>10%OB	≅ -13	-23.04	-20.44	-27.72	-30.34	-14.04	-14.04	-14.04	-14.04	-29.03	-27.71	-29.64	-30.33
High CH	0~10%OB	≅ -5	-19.5	-17.14	-21.43	-25.12	-25.26	-21.38	-25.12	-26.73	-27.39	-26.18	-27.61	-28.4
	>10%OB	≅ -13	-24.42	-20.95	-25.38	-27.84	-25.14	-21.53	-25.22	-26.28	-27.48	-26.74	-27.58	-27.52
Result			Compliance											



DFT-s-OFDM Module 0

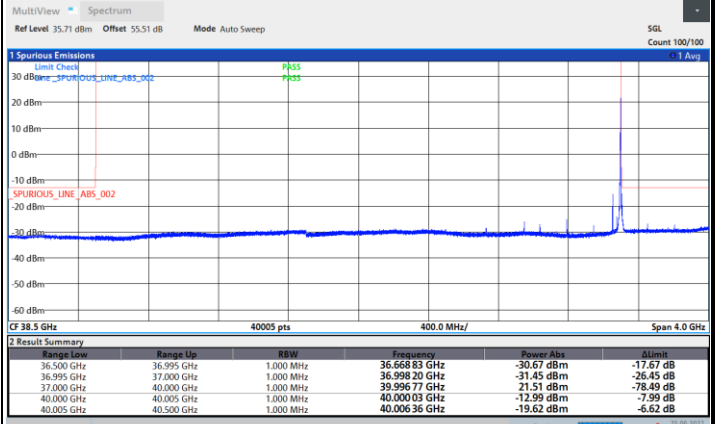
NR Band n260 / 50MHz / BPSK

Lowest Band Edge / 1 RB



16:53:03 25.06.2021

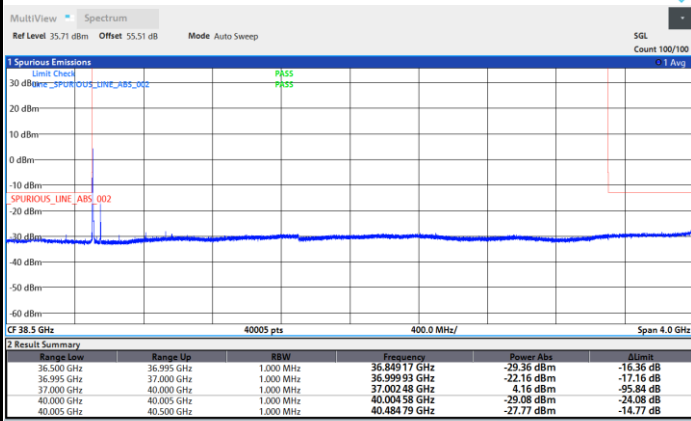
Highest Band Edge / 1 RB



18:19:57 25.06.2021

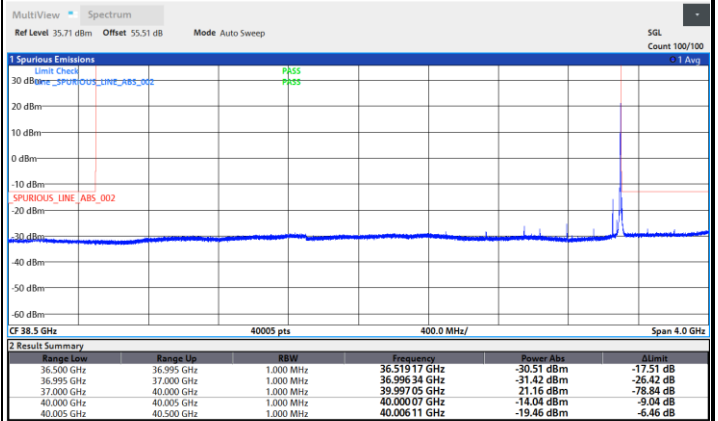
NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB



16:56:12 25.06.2021

Highest Band Edge / 1 RB



18:20:51 25.06.2021

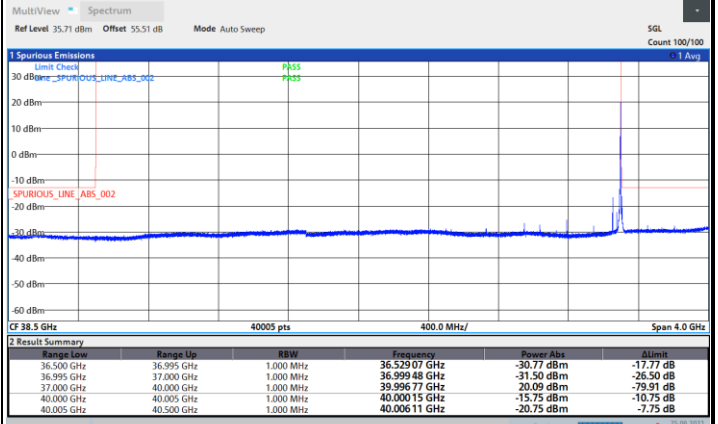
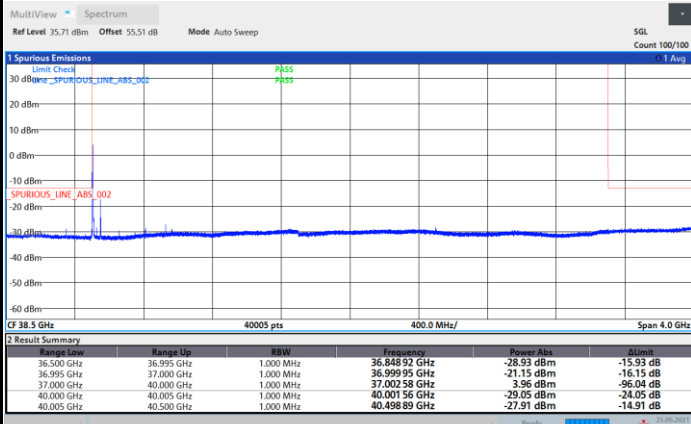


DFT-s-OFDM Module 0

NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / 1 RB

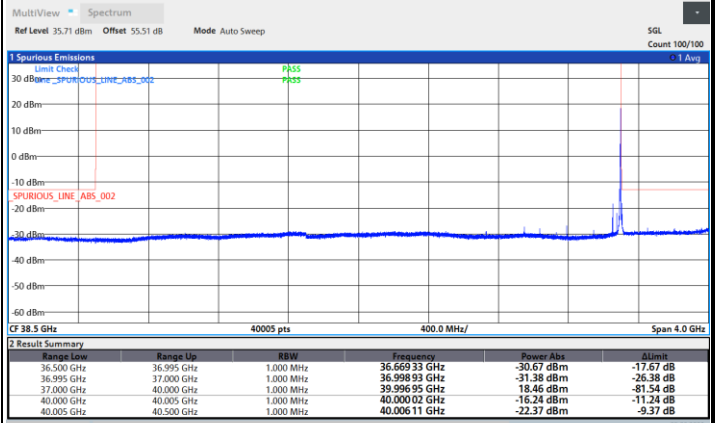
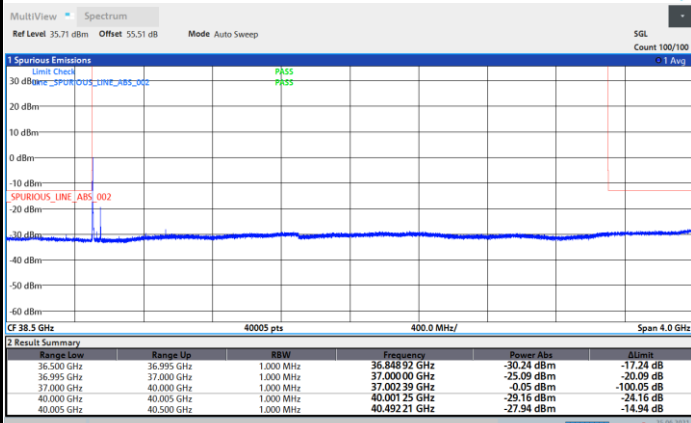
Highest Band Edge / 1 RB



NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

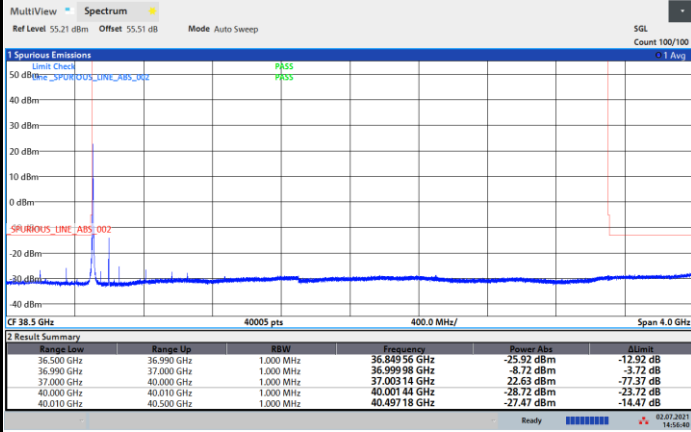




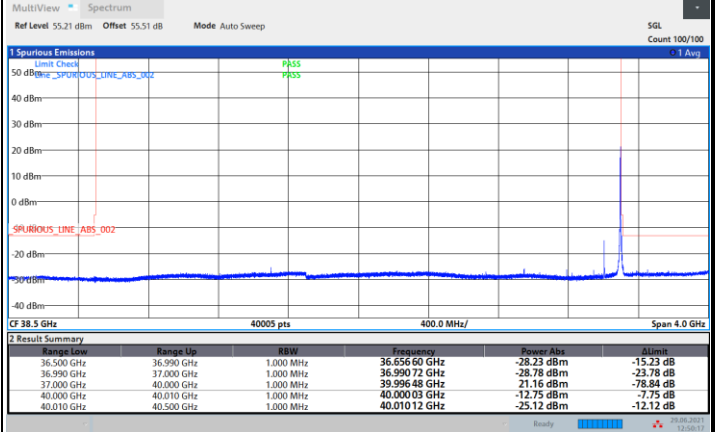
DFT-s-OFDM Module 0

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / 1 RB

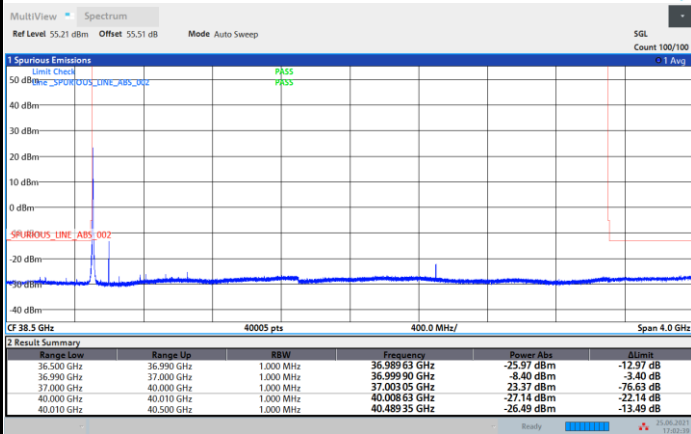


Highest Band Edge / 1 RB



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

