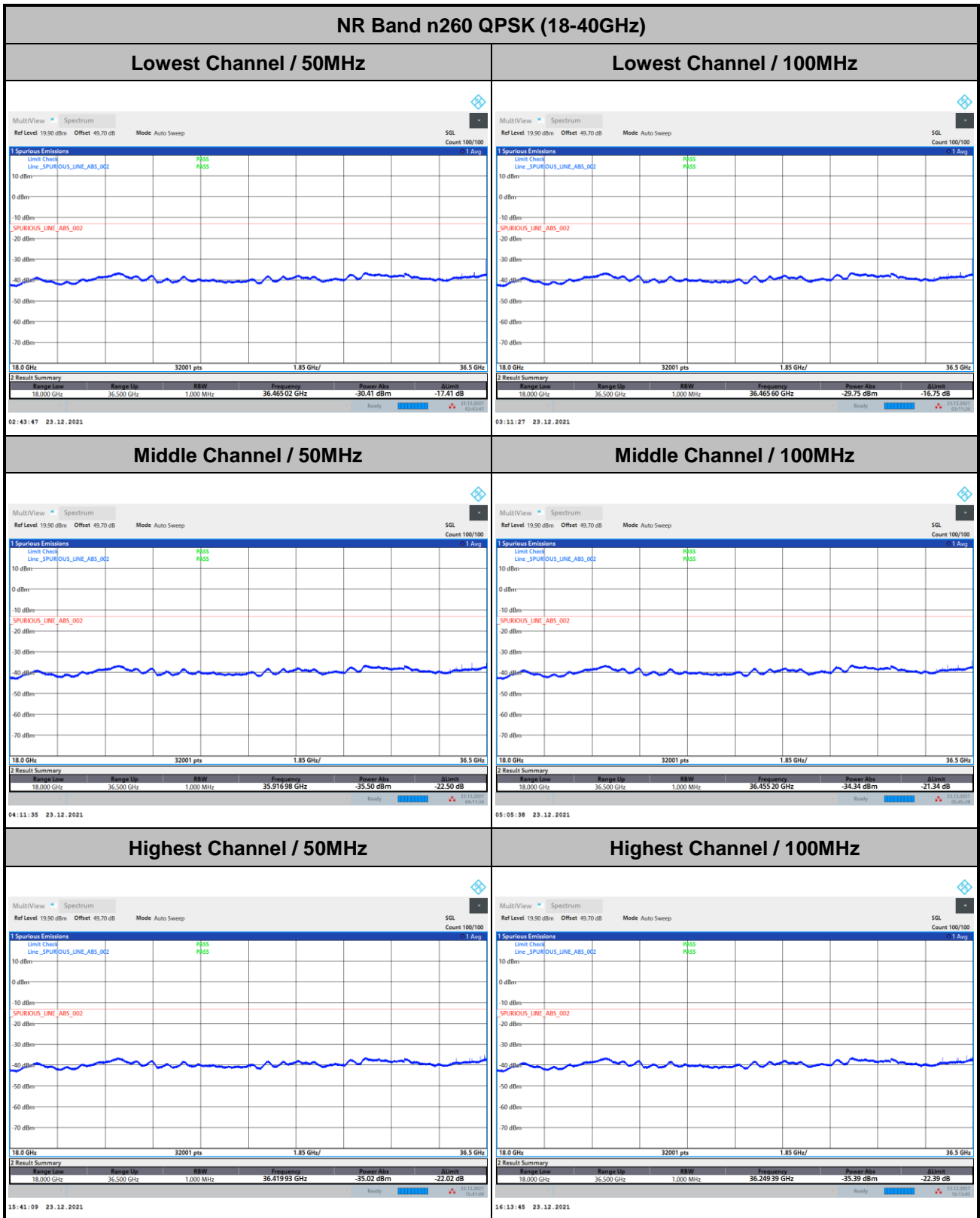




Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

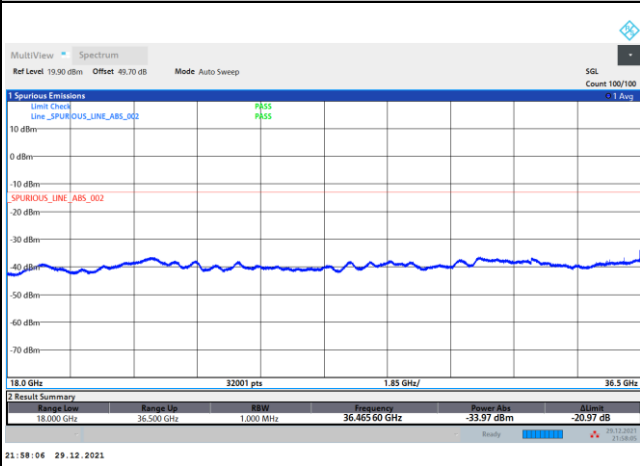
DFT-s-OFDM Module 1



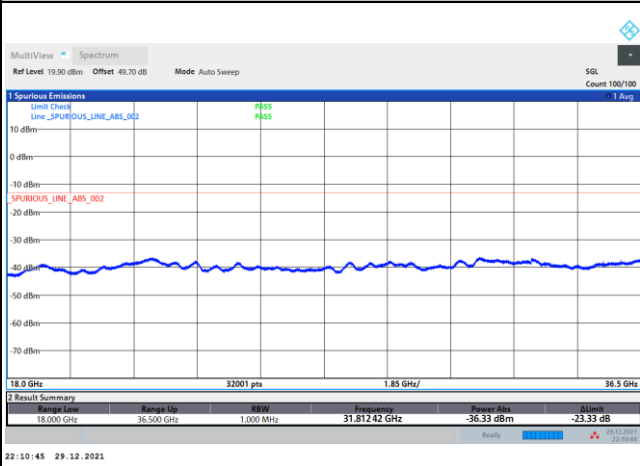


NR Band n260 QPSK (18-40GHz)

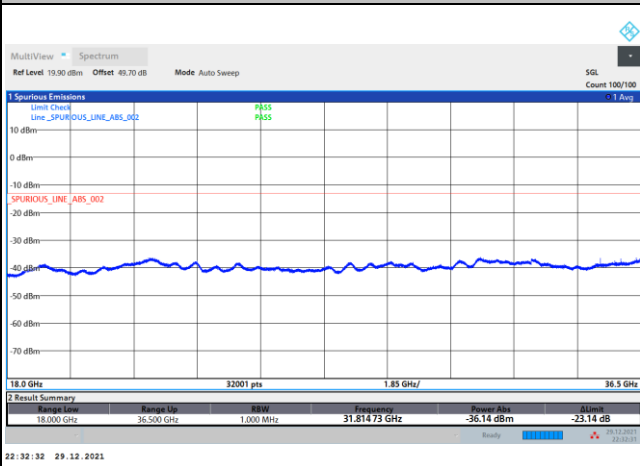
Lowest Channel / 200MHz



Middle Channel / 200MHz



Highest Channel / 200MHz



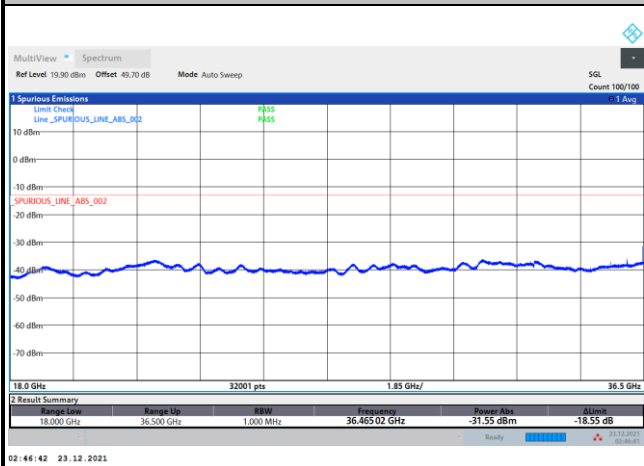
Remark: Above plots, the spurious emissions were measured from 18GHz to 36.5GHz. The test results within the omitted frequency 36.5GHz to 40GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 36.5GHz to 40.5GHz and all spurious comply with limits.



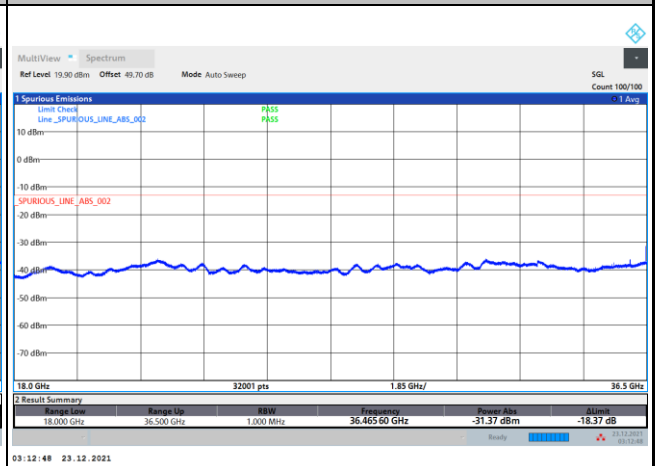
CP-OFDM Module 1

NR Band n260 QPSK (18-40GHz)

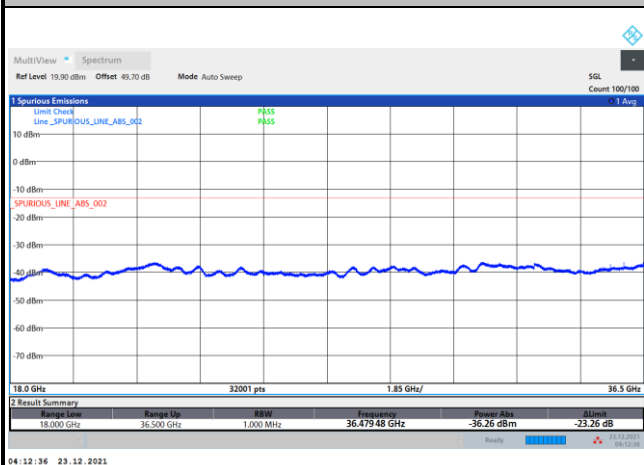
Lowest Channel / 50MHz



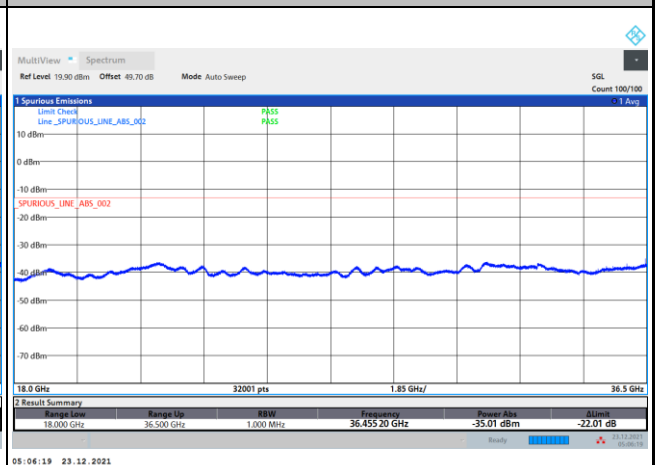
Lowest Channel / 100MHz



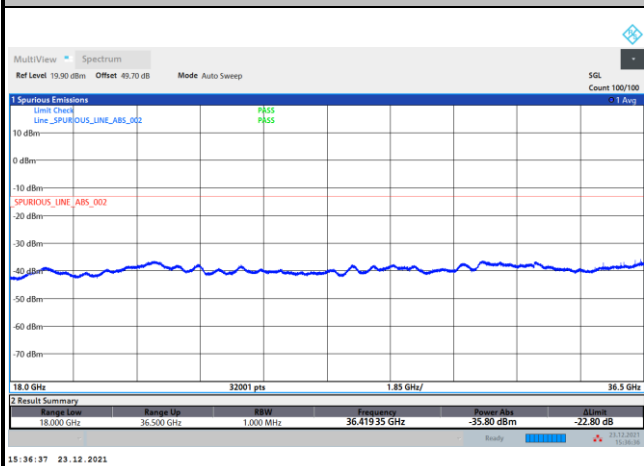
Middle Channel / 50MHz



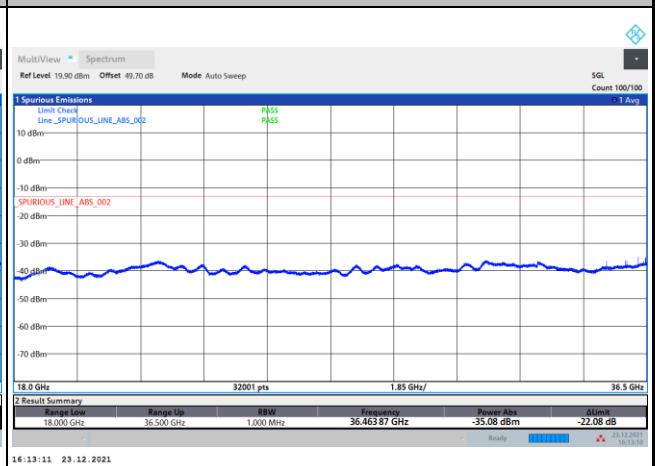
Middle Channel / 100MHz



Highest Channel / 50MHz



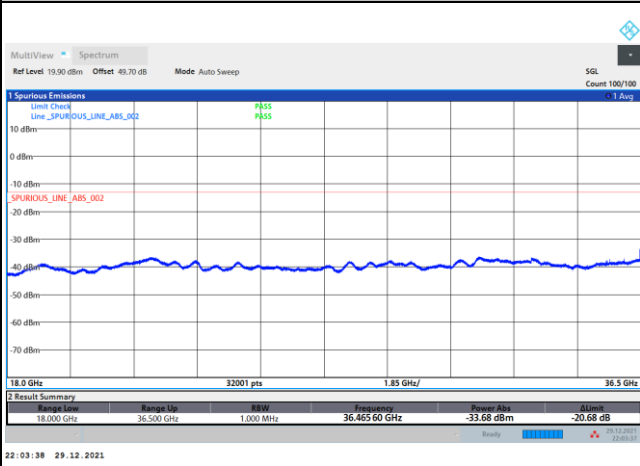
Highest Channel / 100MHz



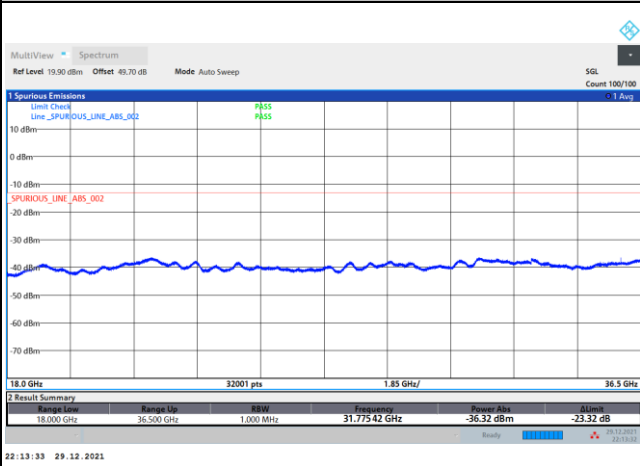


NR Band n260 QPSK (18-40GHz)

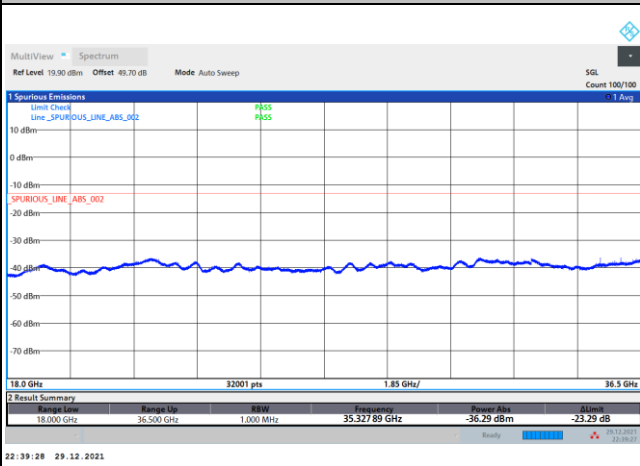
Lowest Channel / 200MHz



Middle Channel / 200MHz



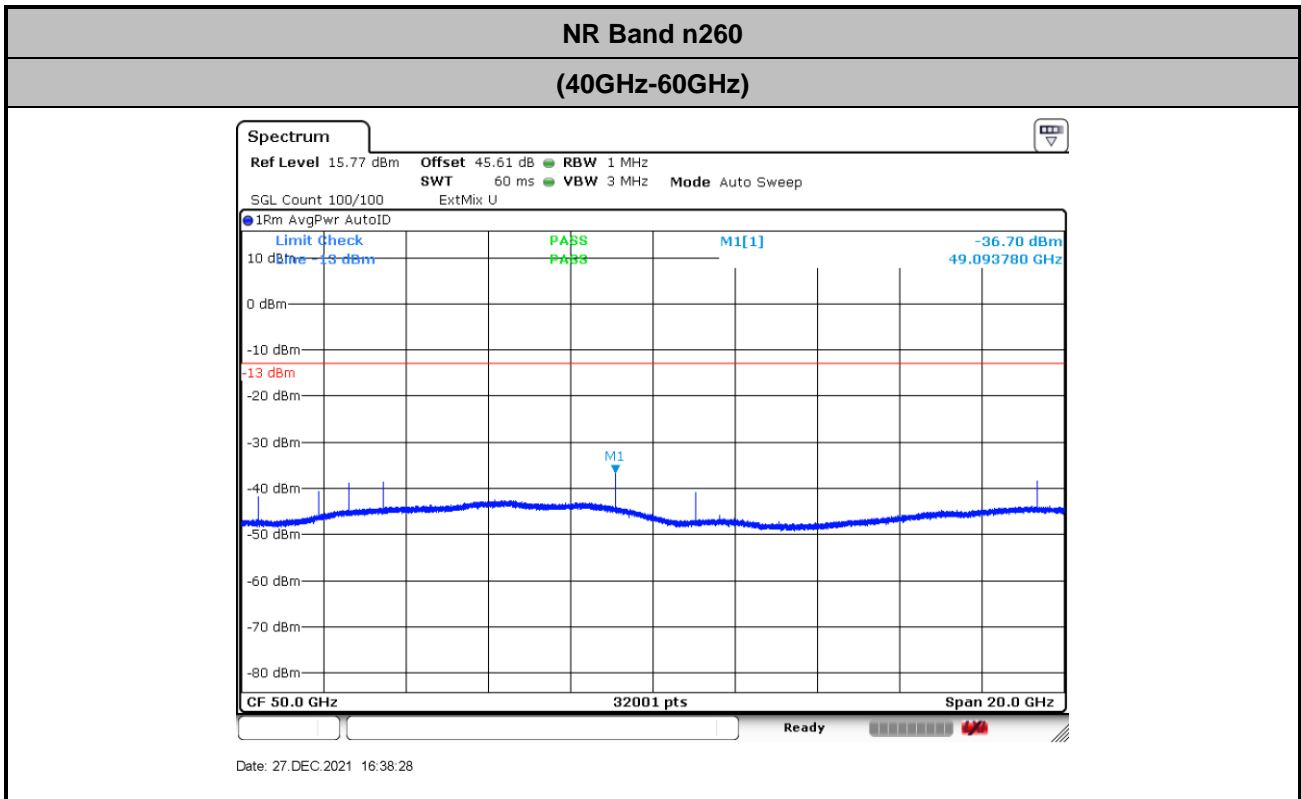
Highest Channel / 200MHz



Remark: Above plots, the spurious emissions were measured from 18GHz to 36.5GHz. 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 40.5GHz and all spurious comply with limits.

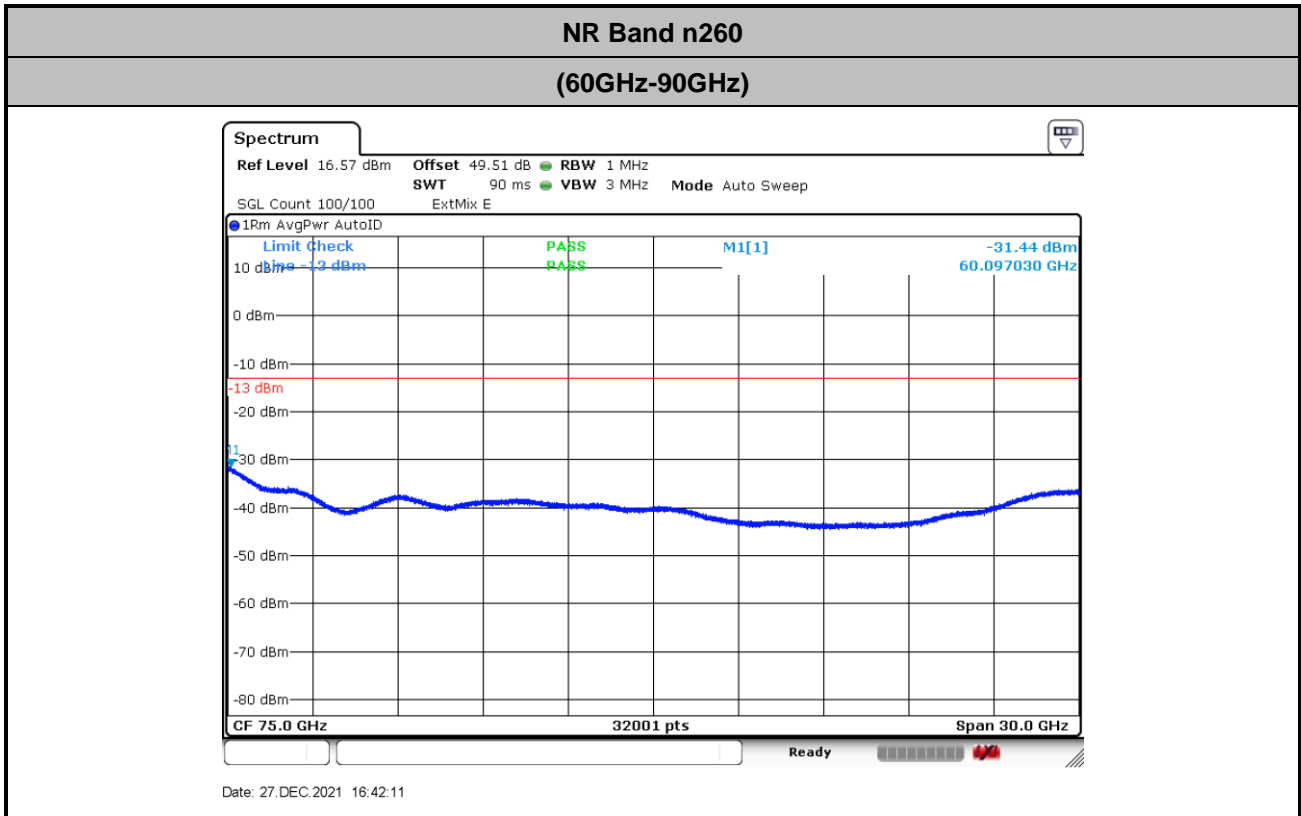


There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.



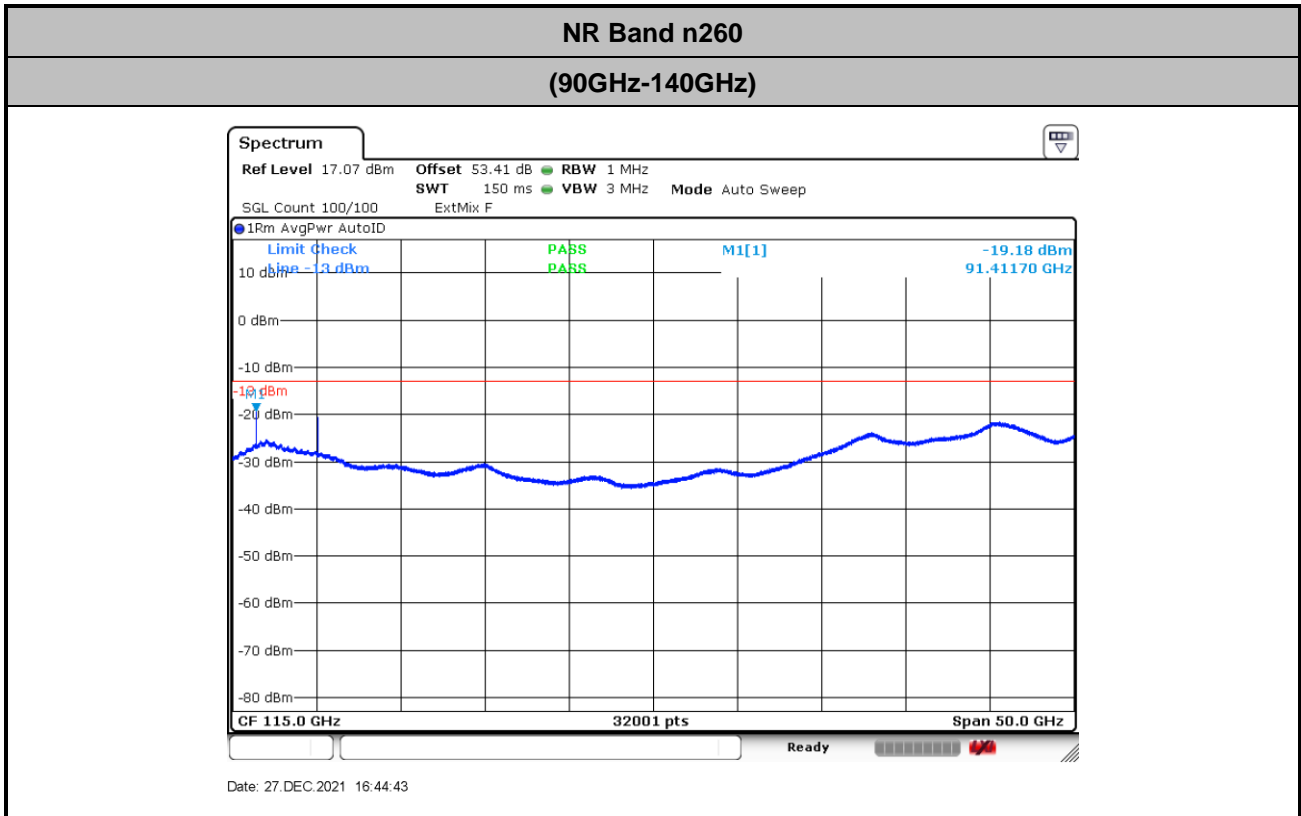
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 43 + 0.41 + 107 + 20\log(1) - 104.8 = 45.61 \text{ (dB)}$$



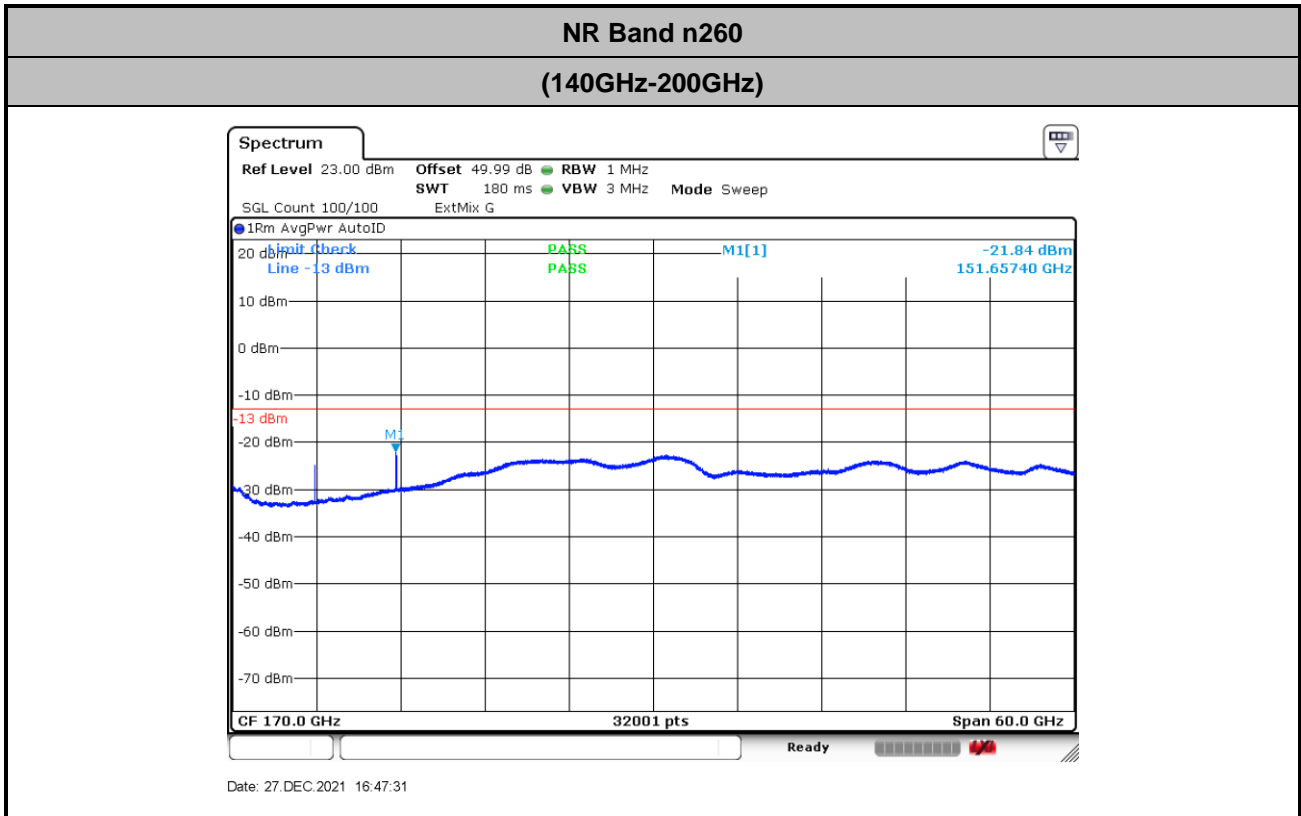
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 46.9 + 0.41 + 107 + 20\log(1) - 104.8 = 49.51 \text{ (dB)}$$



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

$$= 50.8 + 0.41 + 107 + 20\log(1) - 104.8 = 53.41 \text{ (dB)}$$



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

$$= 53.4 + 0.41 + 107 + 20\log(0.5) - 104.8 = 49.99 \text{ (dB)}$$



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	38.5002807	-282.700	7.343	Pass
40	Normal Voltage	38.5001628	-164.800	4.281	
30	Normal Voltage	38.5000619	-63.900	1.660	
20(Ref.)	Normal Voltage	38.499998	0.000	0.000	
10	Normal Voltage	38.499978	20.000	0.519	
0	Normal Voltage	38.49995	48.000	1.247	
-10	Normal Voltage	38.4999011	96.900	2.517	
-20	Normal Voltage	38.4998322	165.800	4.306	
-30	Normal Voltage	38.4997742	223.800	5.813	
20	Maximum Voltage	38.500035	-37.000	0.961	
20	Normal Voltage	38.500014	-16.000	0.416	
20	Battery End Point	38.499976	22.000	0.571	

Note: The frequency fundamental emissions stay within the operation band.



NR Band n261 Module 1 AG0

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.84	45.91	45.95	91.30	91.36	91.09
Middle CH	45.92	46.02	45.71	91.38	91.18	91.17
Highest CH	45.87	45.91	45.78	91.24	91.54	91.22

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	200MHz					
Mod.	QPSK	16QAM	64QAM			
Lowest CH	190.70	191.02	190.24			
Middle CH	190.77	189.86	189.79			
Highest CH	189.96	190.38	189.86			

Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)	
BW	50MHz	100MHz
Mod.	QPSK	QPSK
Lowest CH	45.97	94.24
Middle CH	46.18	94.38
Highest CH	45.04	94.33

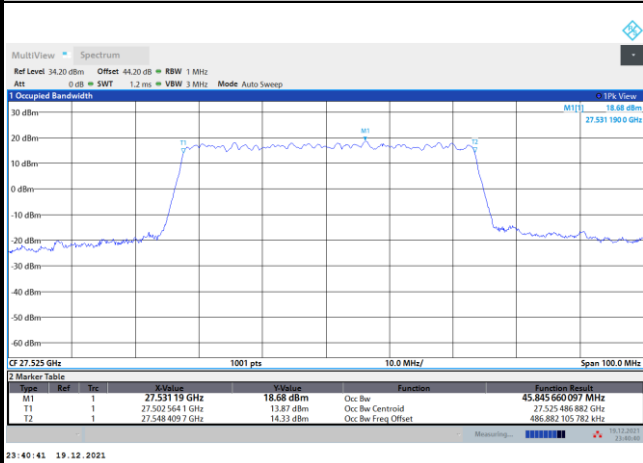
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)	
BW	200MHz	
Mod.	QPSK	
Lowest CH	193.37	
Middle CH	192.66	
Highest CH	192.66	



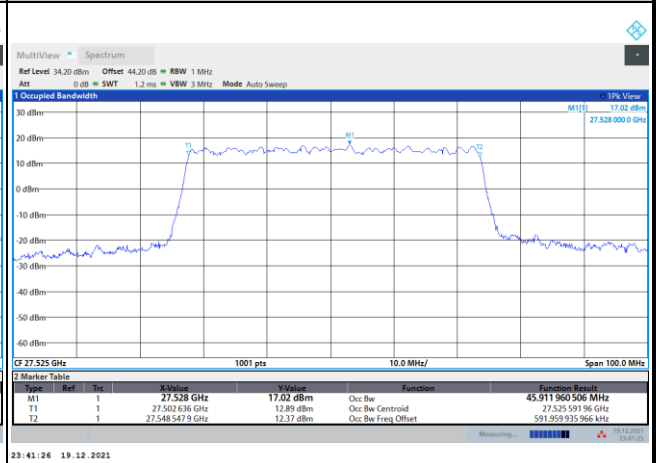
DFT-s-OFDM Module 1

NR Band n261

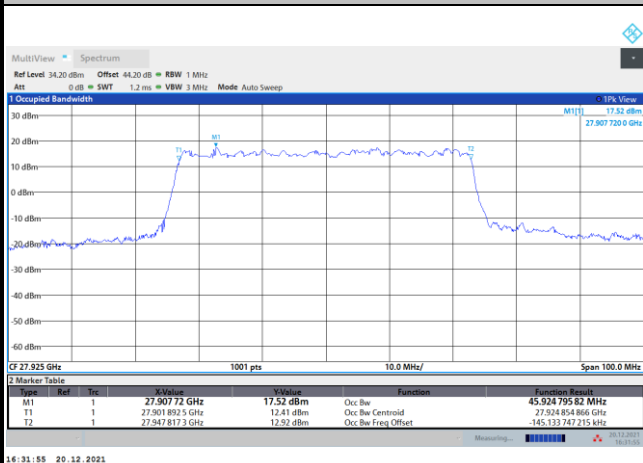
Lowest Channel / 50MHz / QPSK



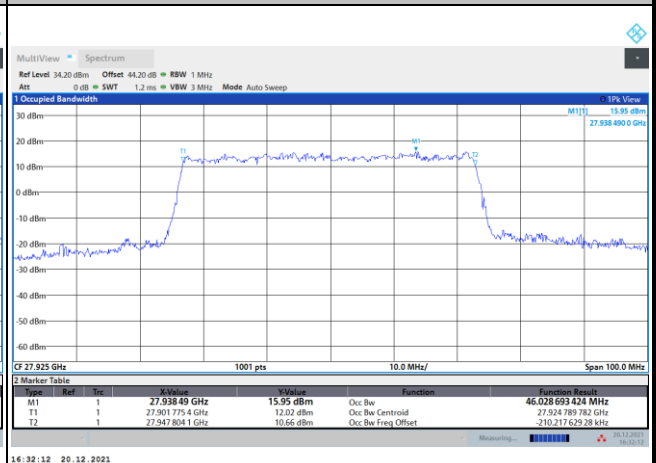
Lowest Channel / 50MHz / 16QAM



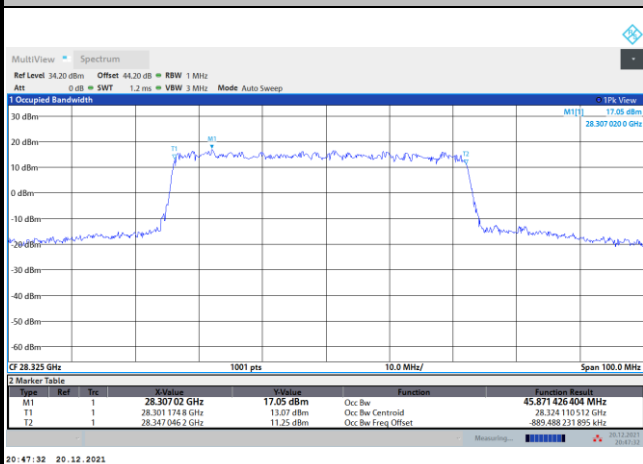
Middle Channel / 50MHz / QPSK



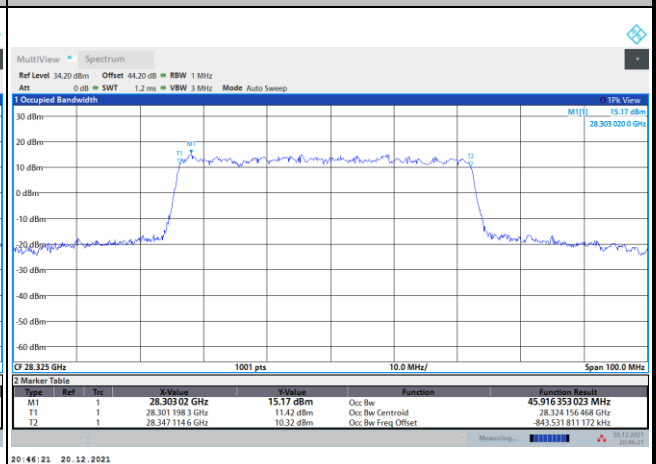
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK

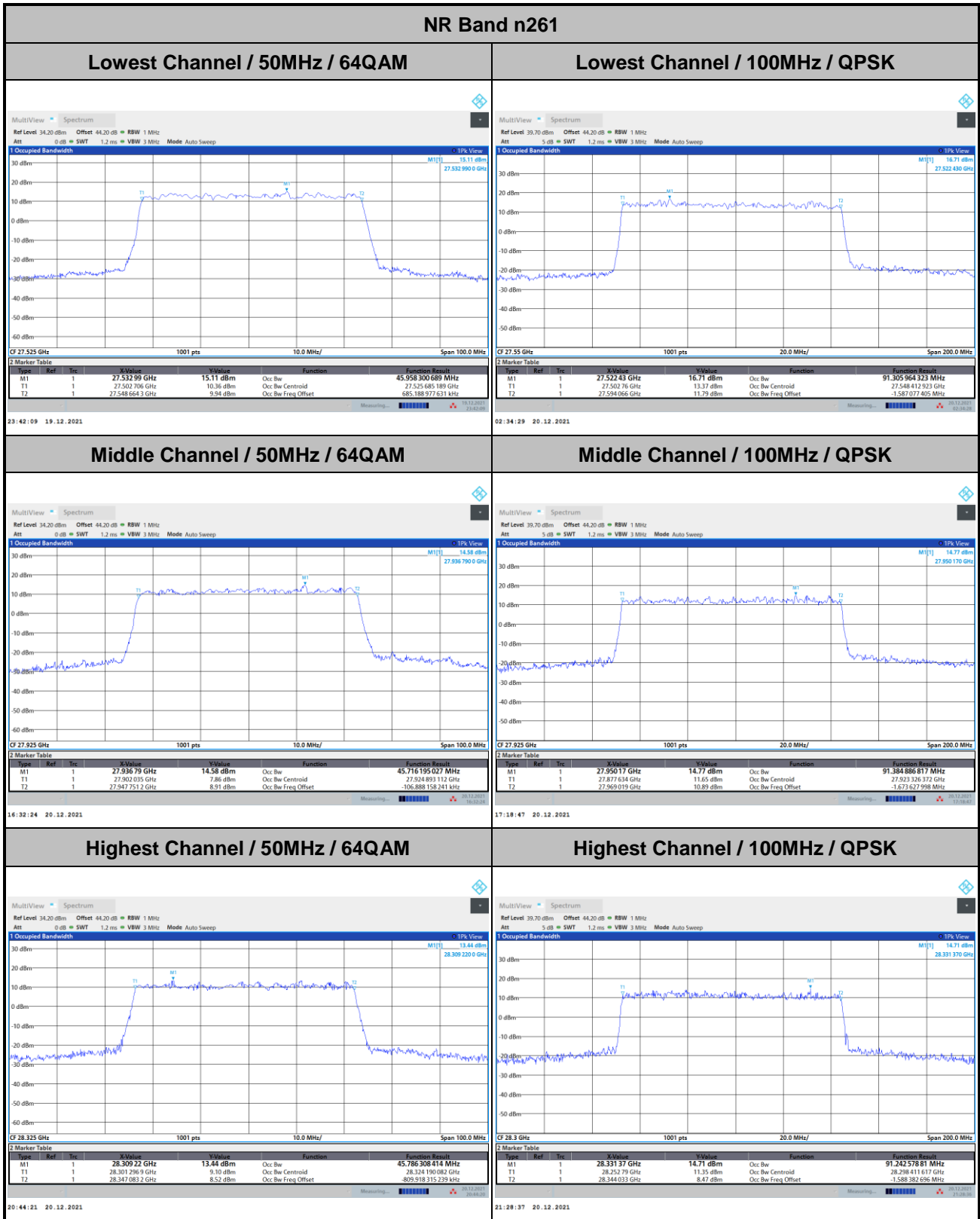


Highest Channel / 50MHz / 16QAM





DFT-s-OFDM Module 1

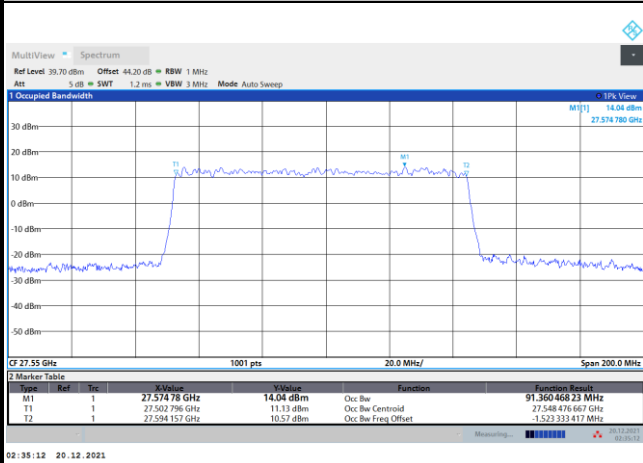




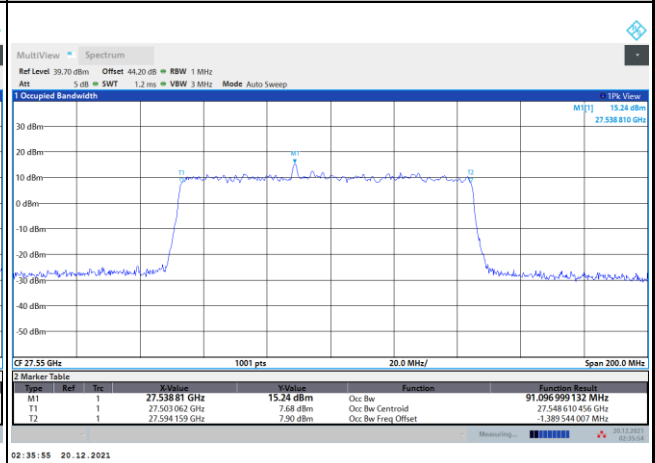
DFT-s-OFDM Module 1

NR Band n261

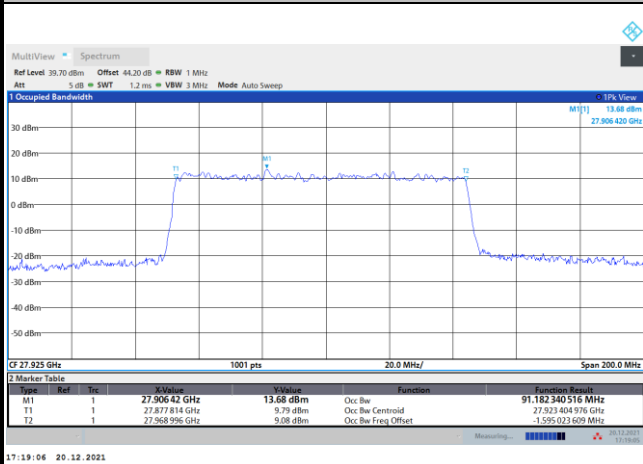
Lowest Channel / 100MHz / 16QAM



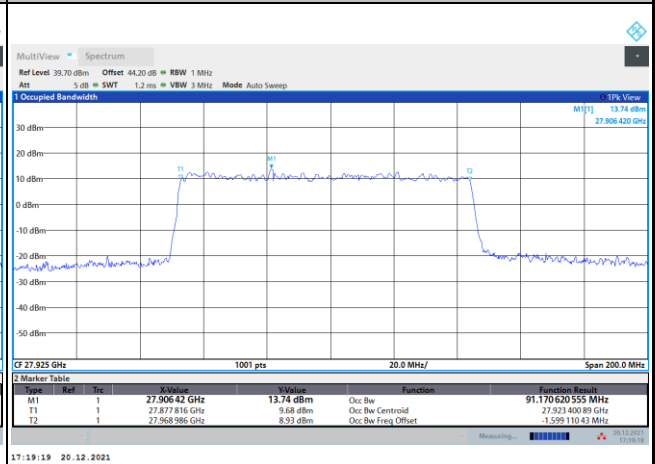
Lowest Channel / 100MHz / 64QAM



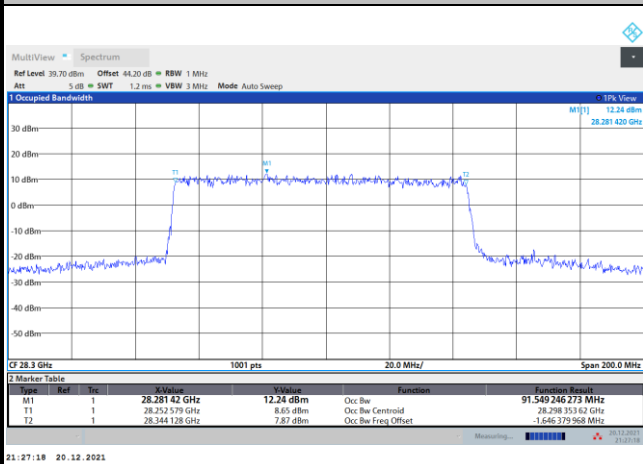
Middle Channel / 100MHz / 16QAM



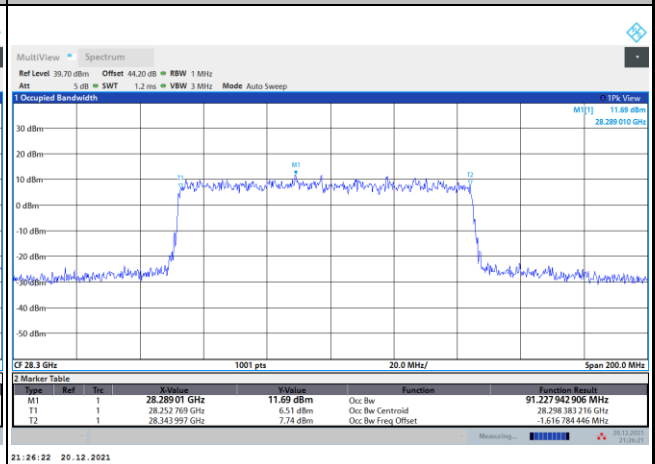
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

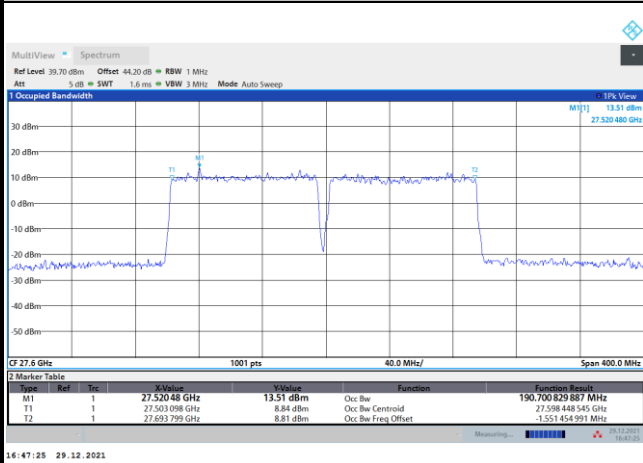




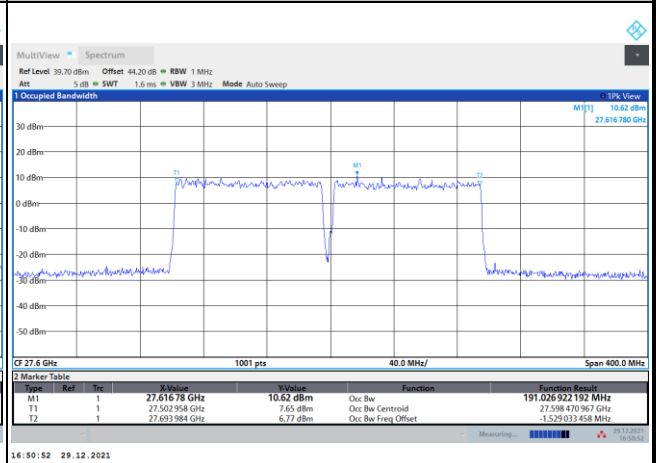
DFT-s-OFDM Module 1

NR Band n261

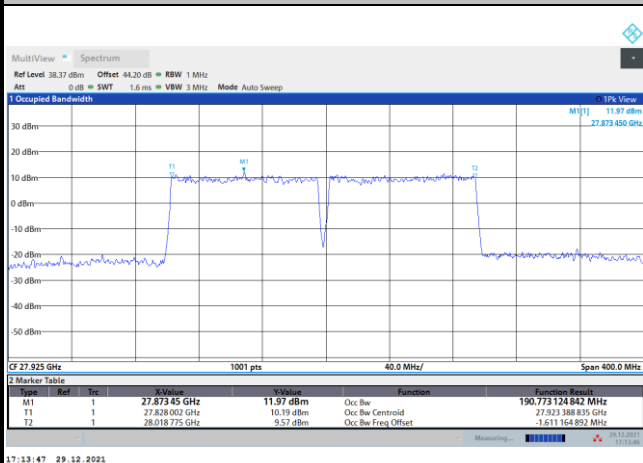
Lowest Channel / 200MHz / QPSK



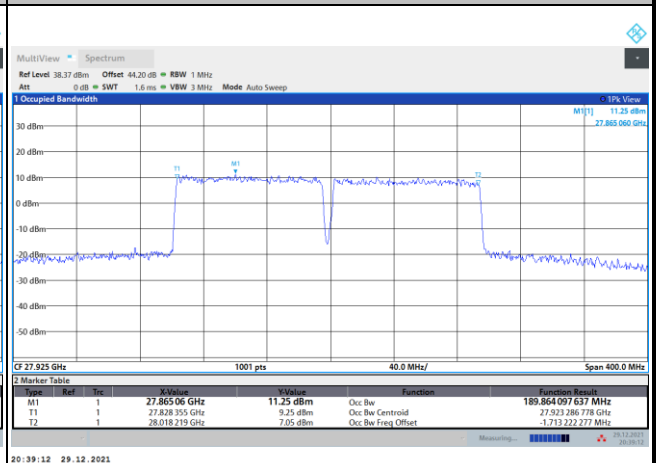
Lowest Channel / 200MHz / 16QAM



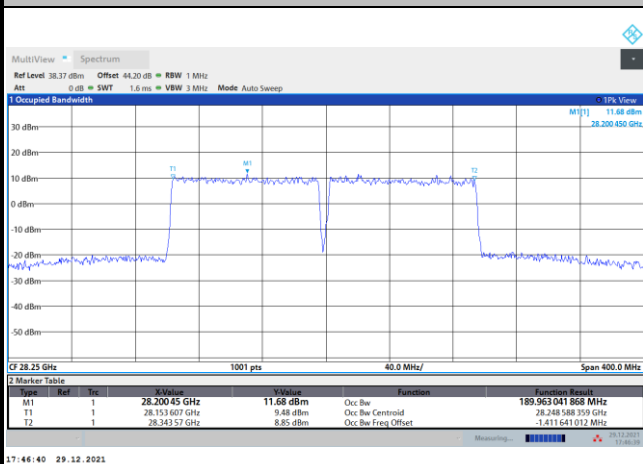
Middle Channel / 200MHz / QPSK



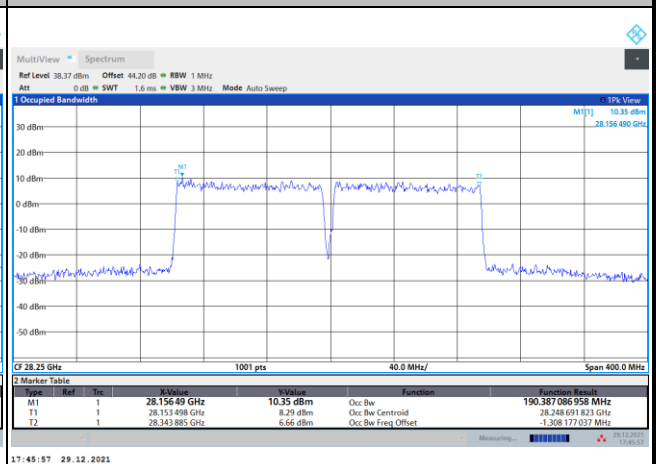
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

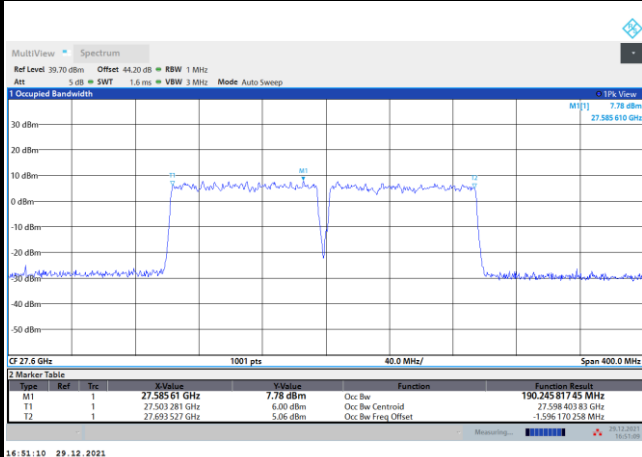




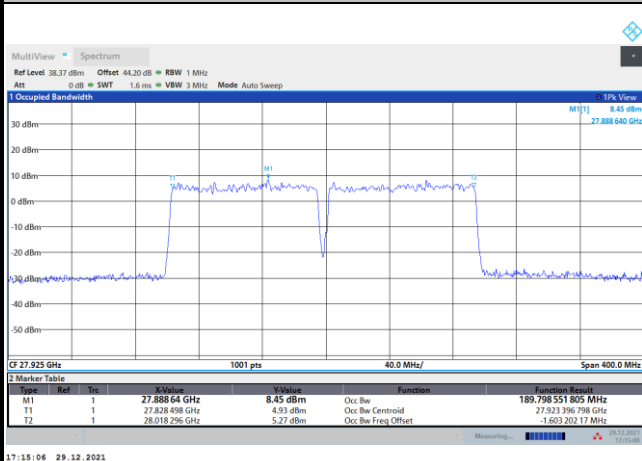
DFT-s-OFDM Module 1

NR Band n261

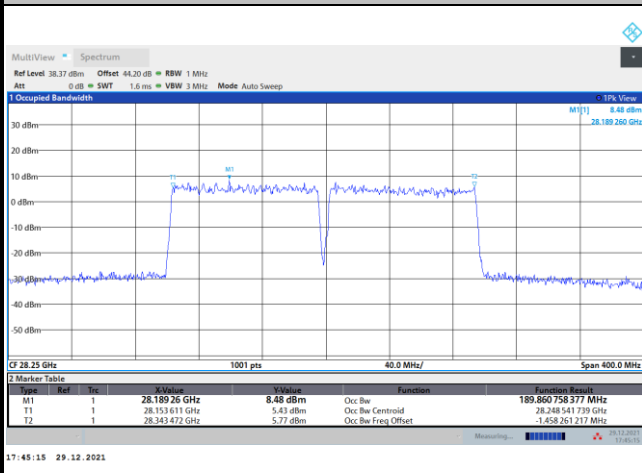
Lowest Channel / 200MHz / 64QAM



Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 64QAM

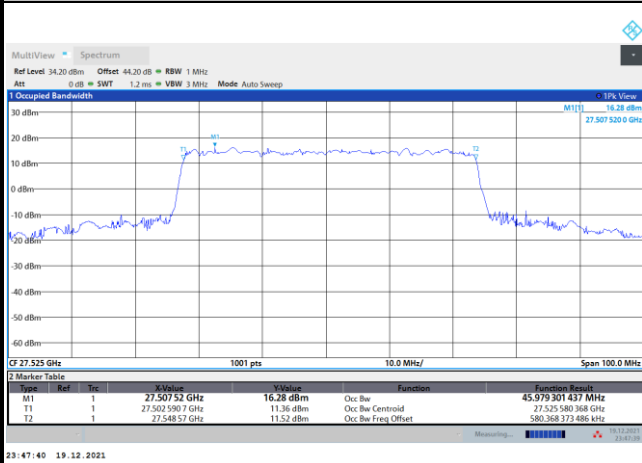




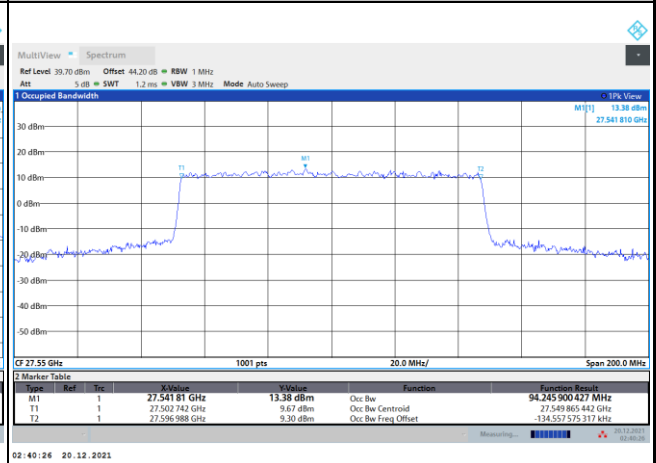
CP-OFDM Module 1

NR Band n261

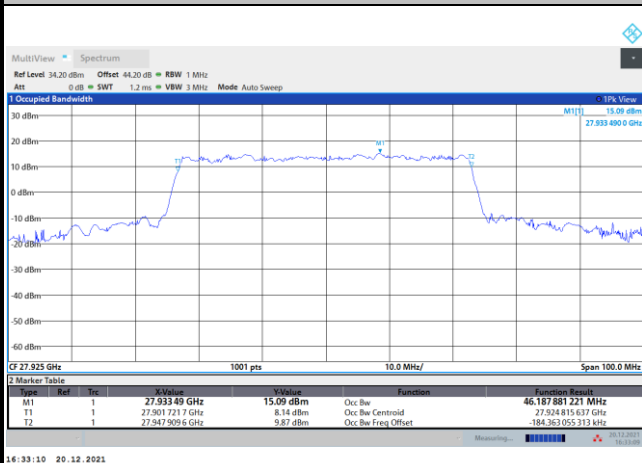
Lowest Channel / 50MHz / QPSK



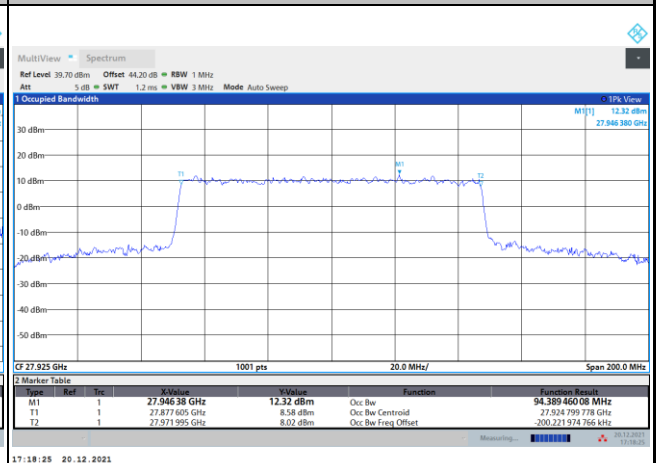
Lowest Channel / 100MHz / QPSK



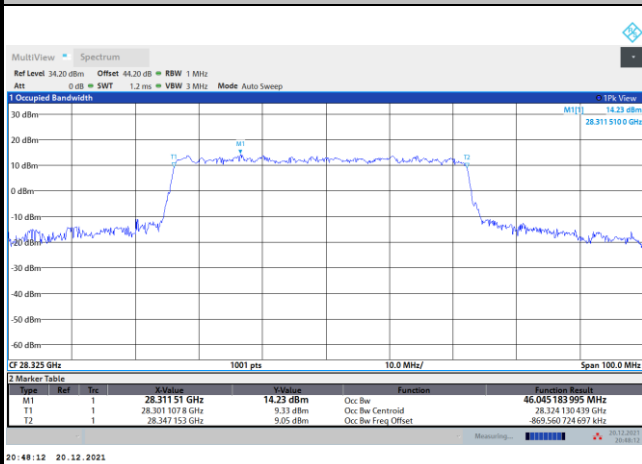
Middle Channel / 50MHz / QPSK



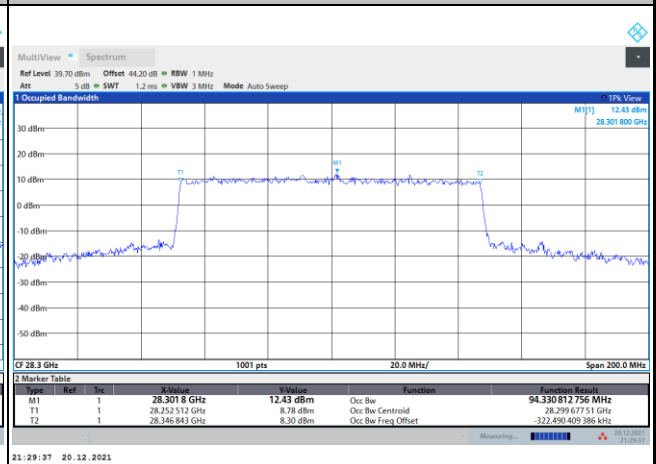
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK





CP-OFDM Module 1

NR Band n261

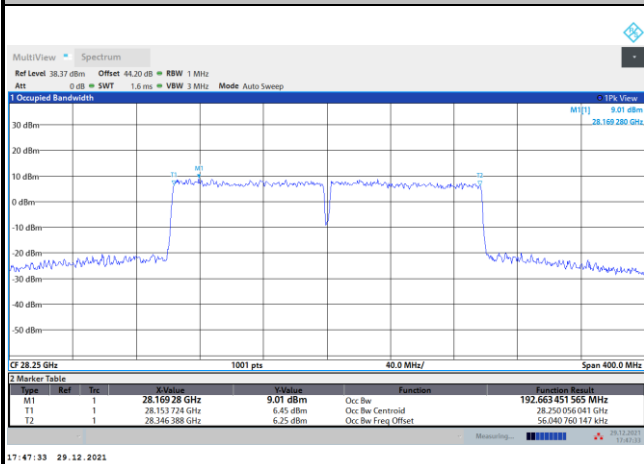
Lowest Channel / 200MHz / QPSK



Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / QPSK





Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-14.10	-14.96	-18.41	-10.25	-12.18	-14.81
	>10%OB	≤-13	-29.76	-30.45	-33.08	-34.38	-35.00	-36.68
High CH	0~10%OB	≤-5	-17.56	-20.98	-21.21	-13.93	-15.82	-15.82
	>10%OB	≤-13	-30.66	-31.83	-33.61	-35.12	-36.24	-36.34
Result			Compliance					
Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB					
BW			200MHz					
Limit (dBm)			QPSK	16QAM	64QAM			
Low CH	0~10%OB	≤-5	-16.94	-17.65	-19.49			
	>10%OB	≤-13	-21.54	-22.68	-24.24			
High CH	0~10%OB	≤-5	-20.60	-21.35	-22.06			
	>10%OB	≤-13	-22.35	-22.54	-25.22			
Result			Compliance					

Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK			QPSK		
Low CH	0~10%OB	≤-5	-15.74			-14.31		
	>10%OB	≤-13	-31.85			-35.75		
High CH	0~10%OB	≤-5	-19.59			-16.45		
	>10%OB	≤-13	-32.06			-36.53		
Result			Compliance					
Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB					
BW			200MHz					
Limit (dBm)			QPSK					
Low CH	0~10%OB	≤-5	-17.30					
	>10%OB	≤-13	-21.42					
High CH	0~10%OB	≤-5	-21.60					
	>10%OB	≤-13	-20.84					
Result			Compliance					



Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-24.32	-27.88	-31.08	-26.68	-27.70	-30.45
	>10%OB	≤-13	-28.91	-32.02	-35.17	-30.39	-33.14	-35.22
High CH	0~10%OB	≤-5	-20.25	-24.04	-28.90	-23.79	-26.88	-31.59
	>10%OB	≤-13	-22.61	-26.04	-31.34	-25.88	-28.28	-33.55
Result			Compliance					
Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) Full RB					
BW			200MHz					
Limit (dBm)			QPSK	16QAM	64QAM			
Low CH	0~10%OB	≤-5	-27.87	-30.05	-33.93			
	>10%OB	≤-13	-32.18	-35.13	-37.47			
High CH	0~10%OB	≤-5	-27.64	-32.52	-36.87			
	>10%OB	≤-13	-29.06	-33.78	-38.20			
Result			Compliance					

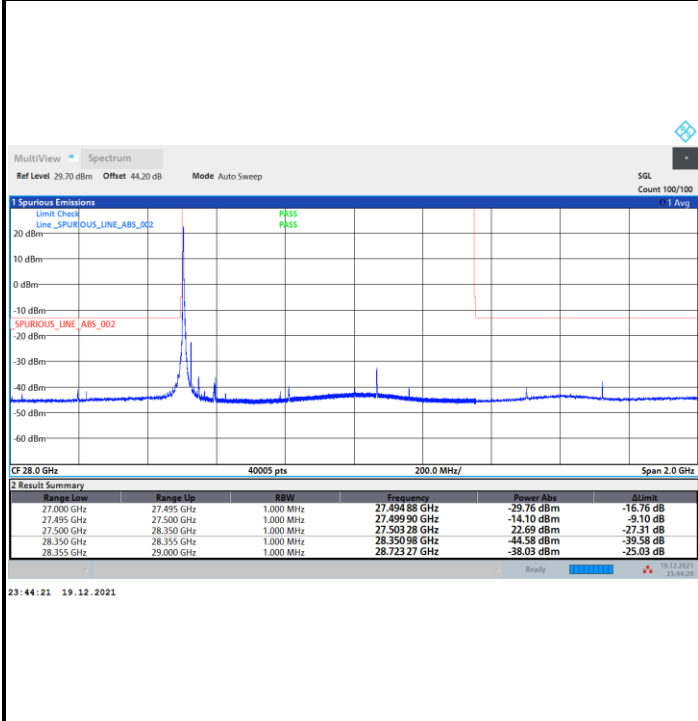
Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK			QPSK		
Low CH	0~10%OB	≤-5	-23.97			-24.77		
	>10%OB	≤-13	-26.32			-27.58		
High CH	0~10%OB	≤-5	-21.62			-23.25		
	>10%OB	≤-13	-23.47			-25.40		
Result			Compliance					
Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) Full RB					
BW			200MHz					
Limit (dBm)			QPSK					
Low CH	0~10%OB	≤-5	-31.23					
	>10%OB	≤-13	-34.52					
High CH	0~10%OB	≤-5	-30.33					
	>10%OB	≤-13	-32.10					
Result			Compliance					



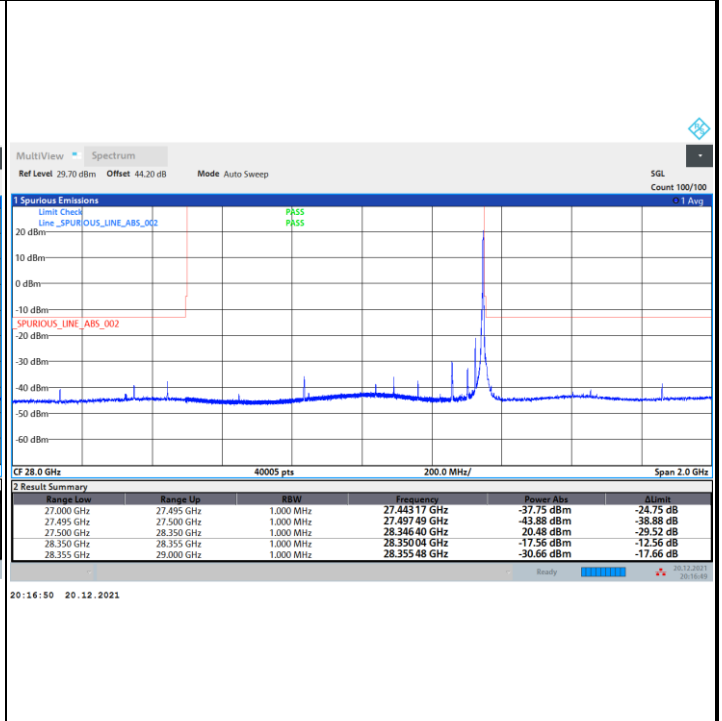
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

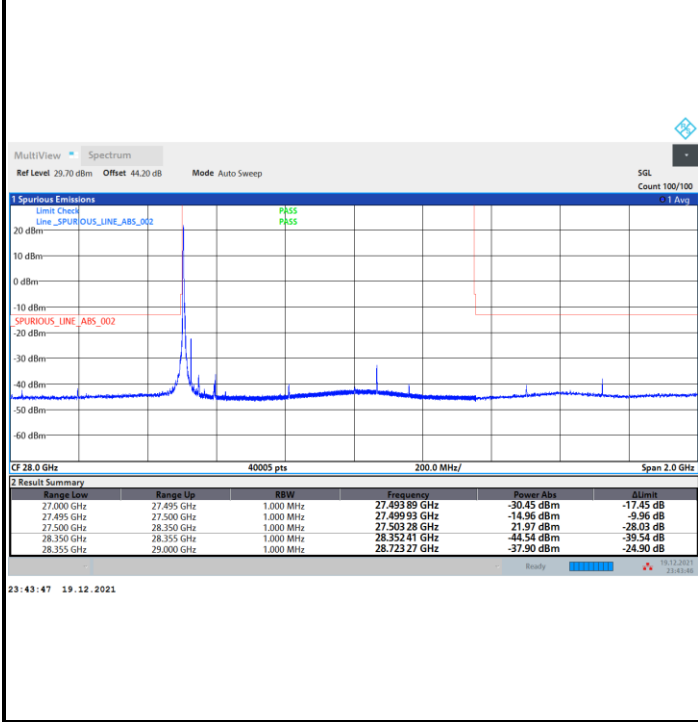


Highest Band Edge / 1 RB

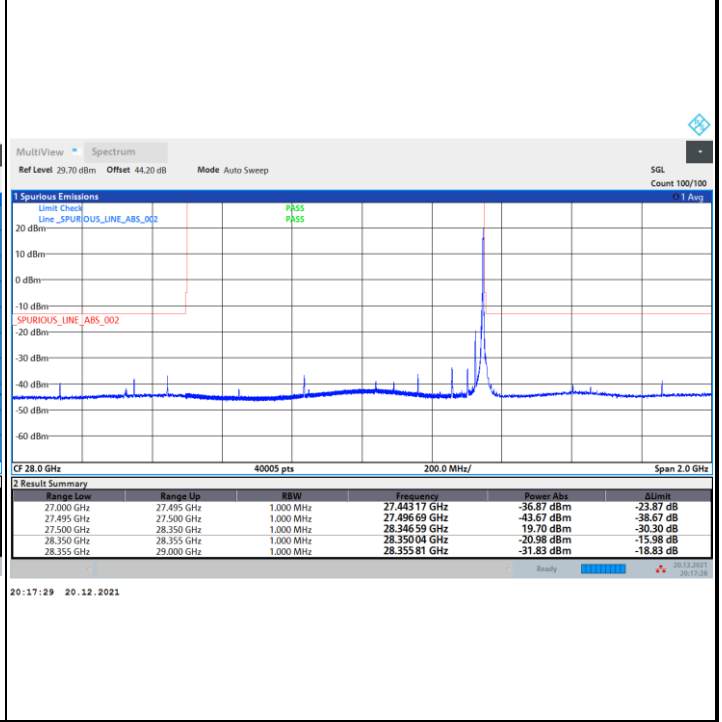


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

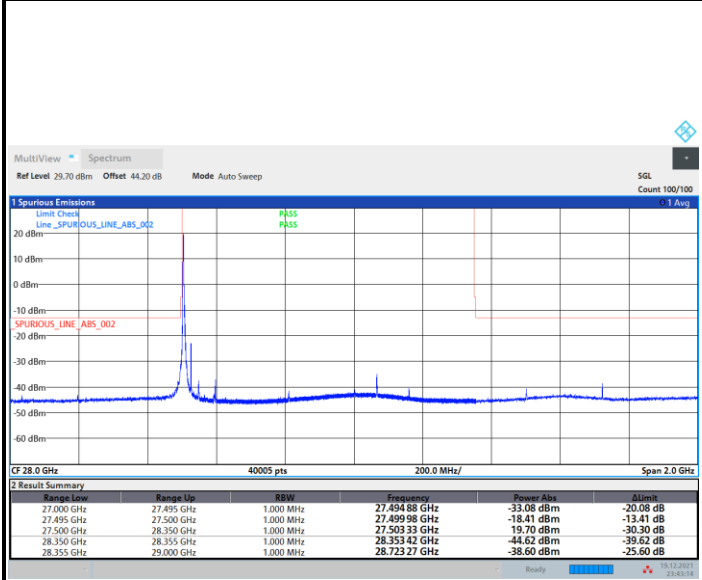




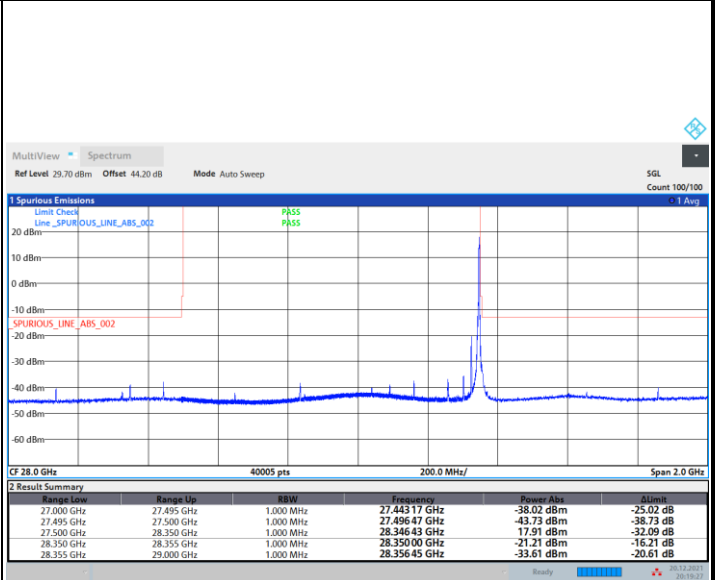
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

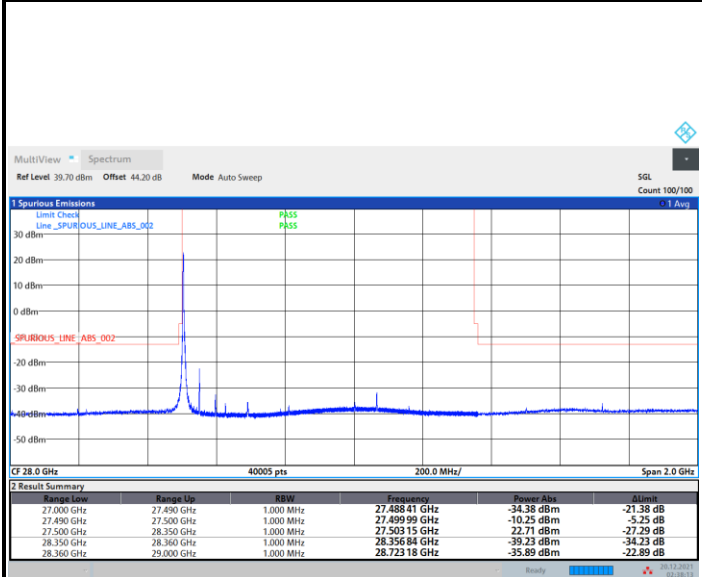


23:43:14 19.12.2021

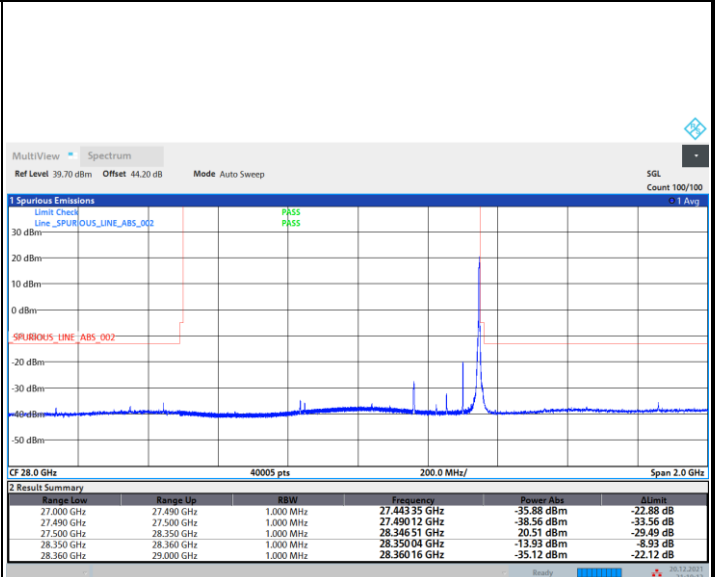
20:19:28 20.12.2021

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



02:38:14 20.12.2021

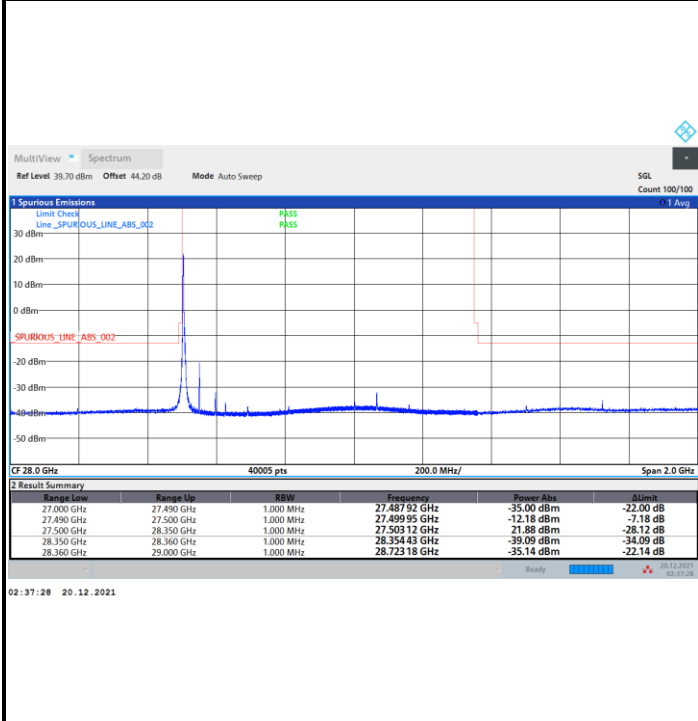
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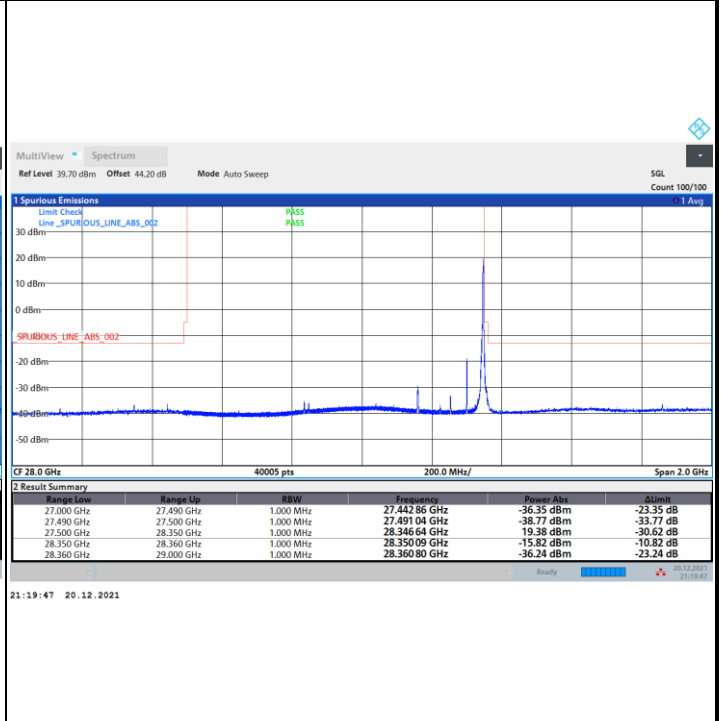
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

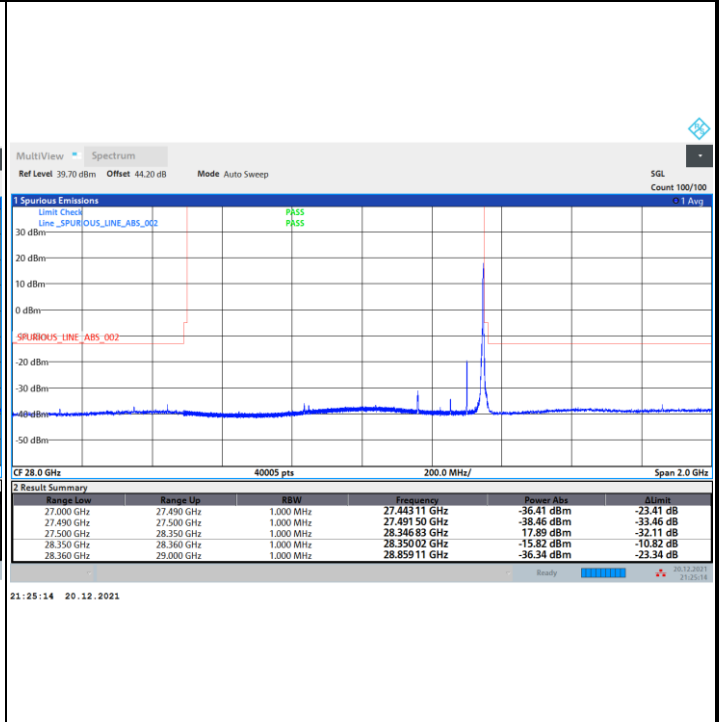


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB

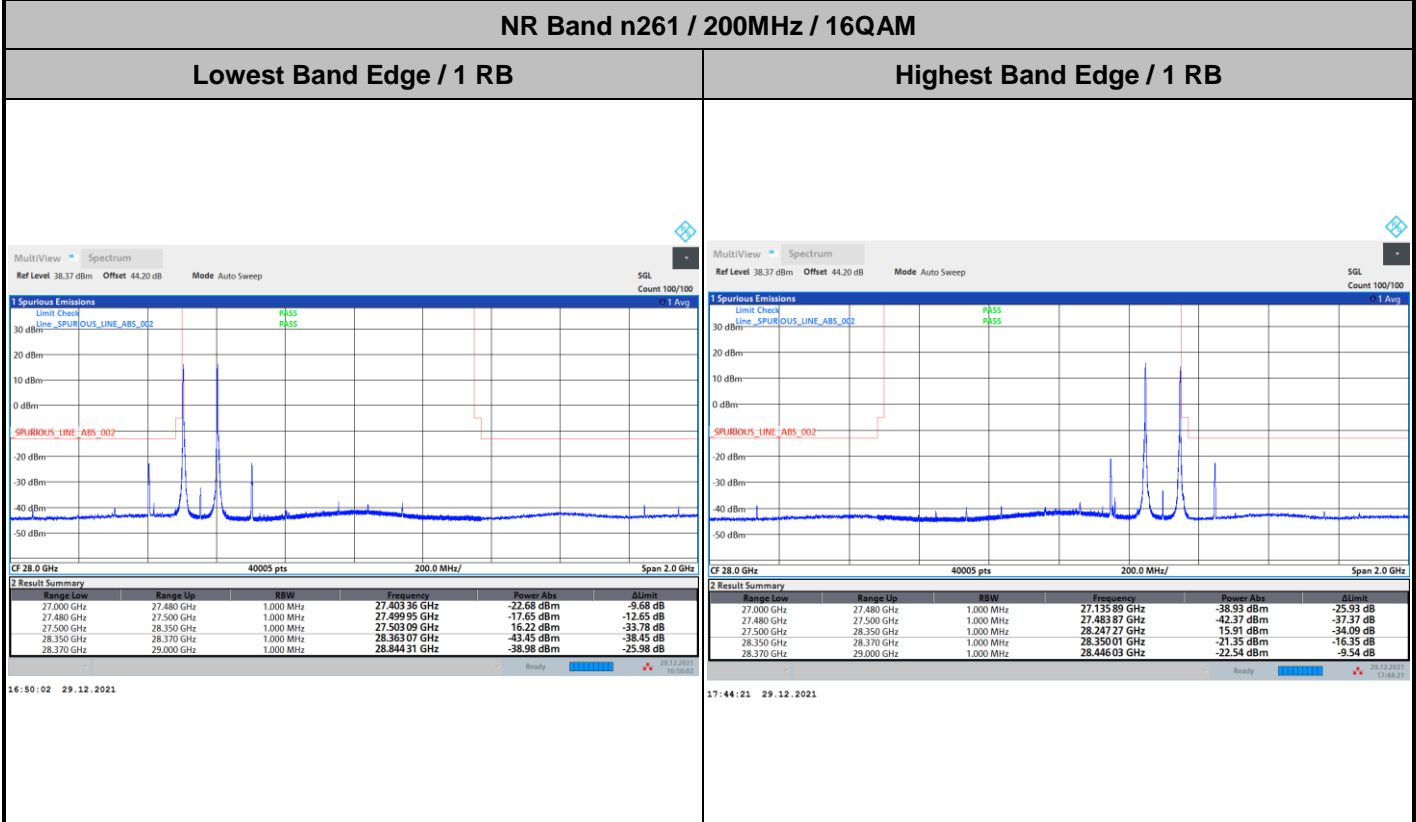
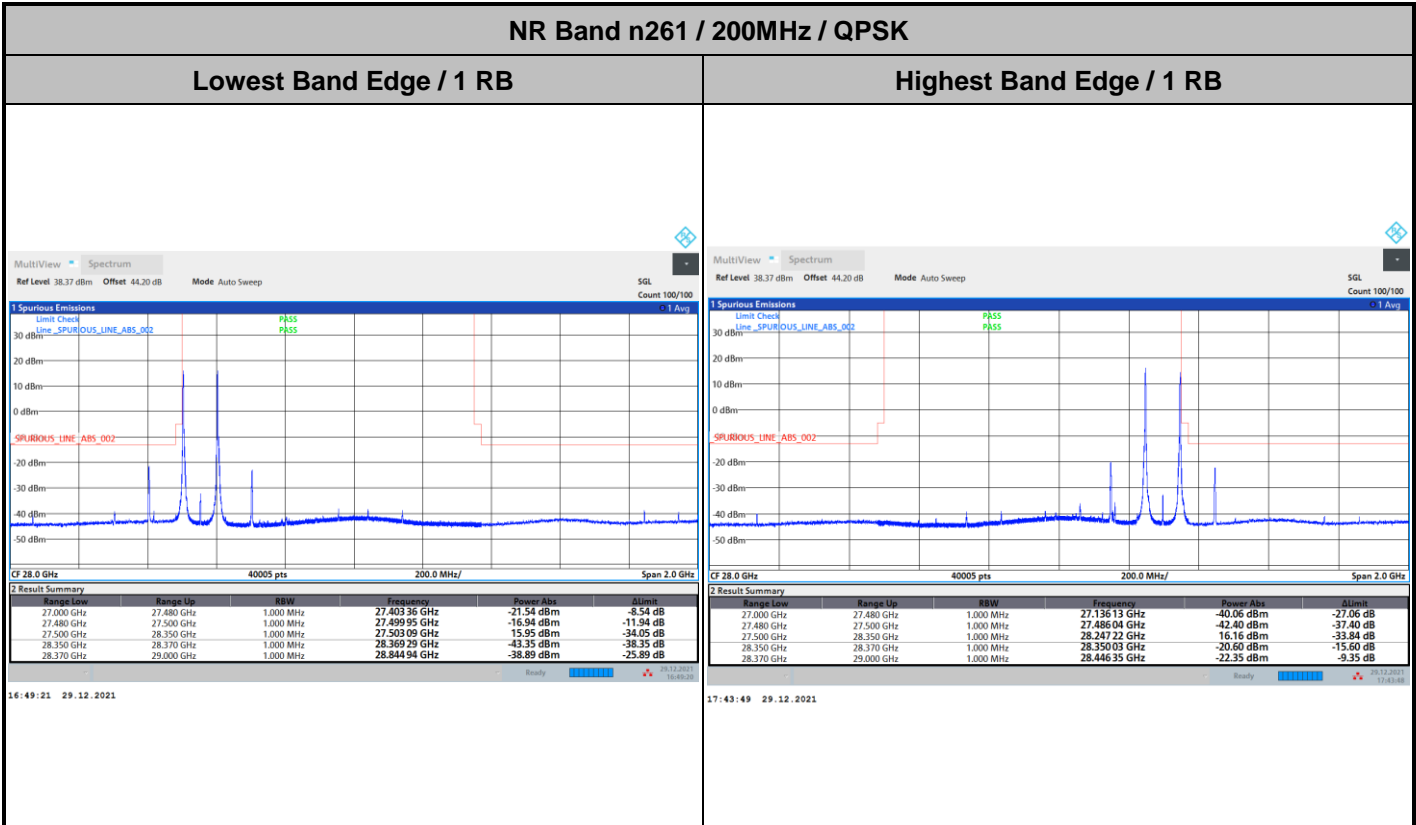


Highest Band Edge / 1 RB



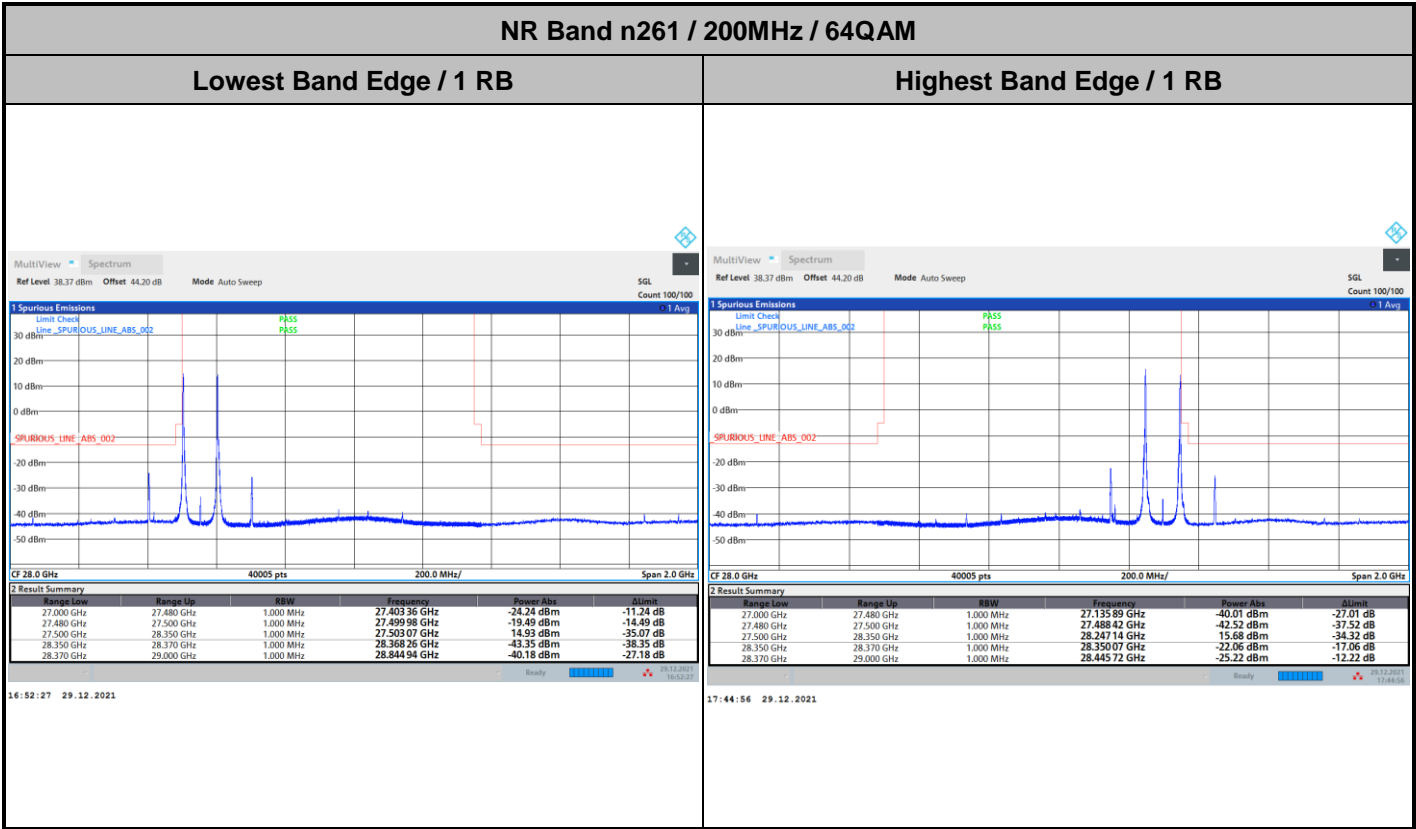


DFT-s-OFDM Module 1





DFT-s-OFDM Module 1



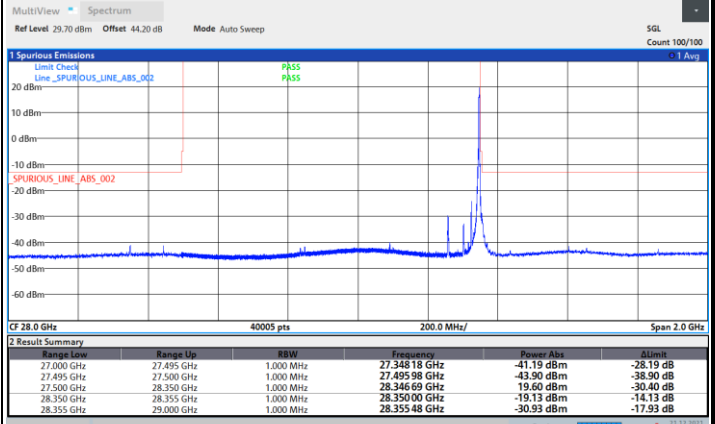
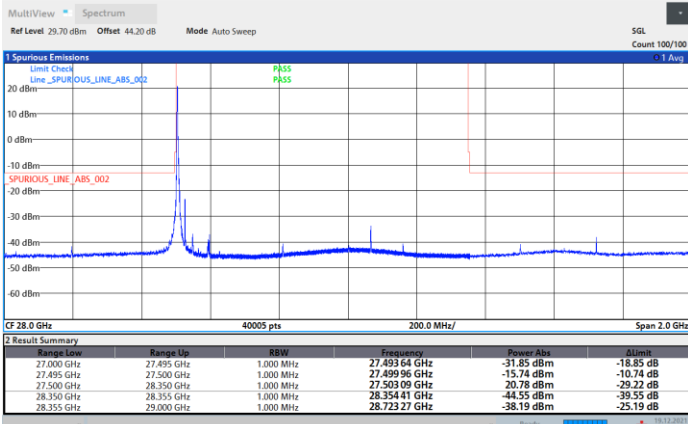


CP-OFDM Module 1

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

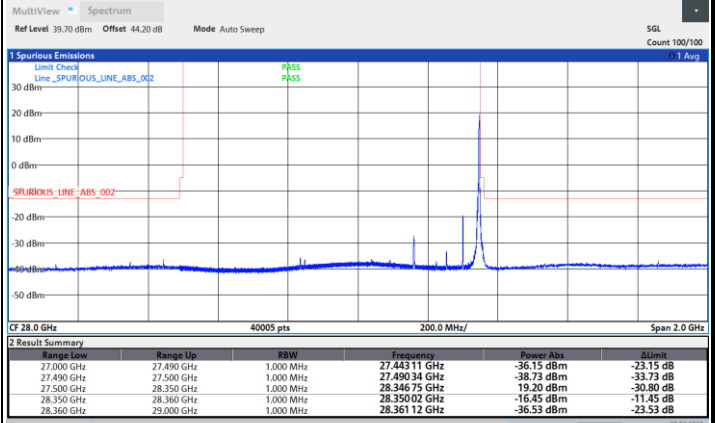
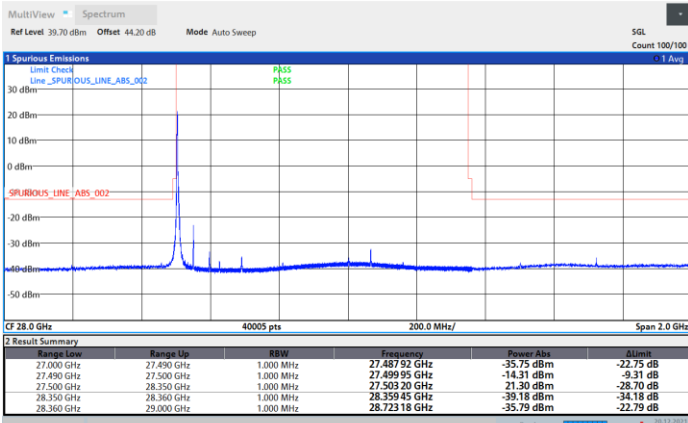
Highest Band Edge / 1 RB



NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

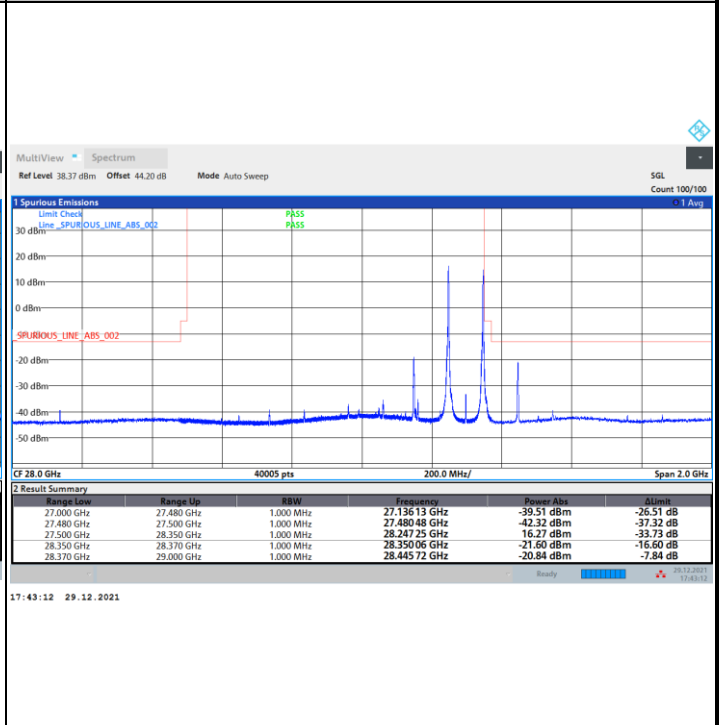
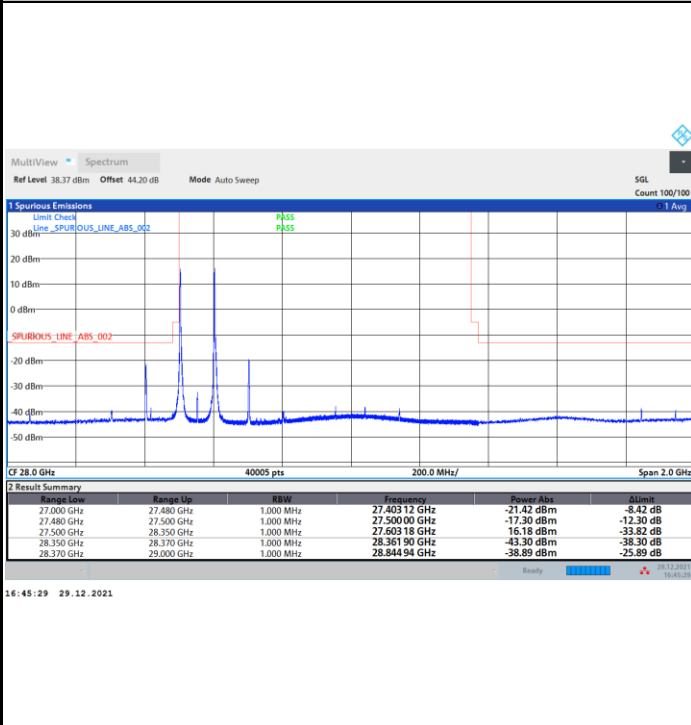




NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

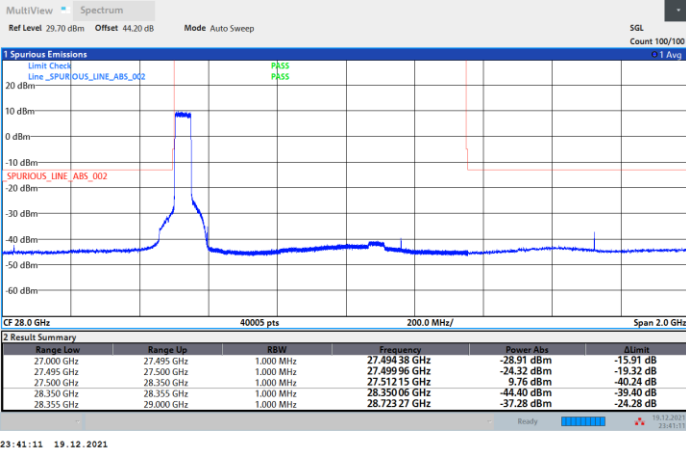




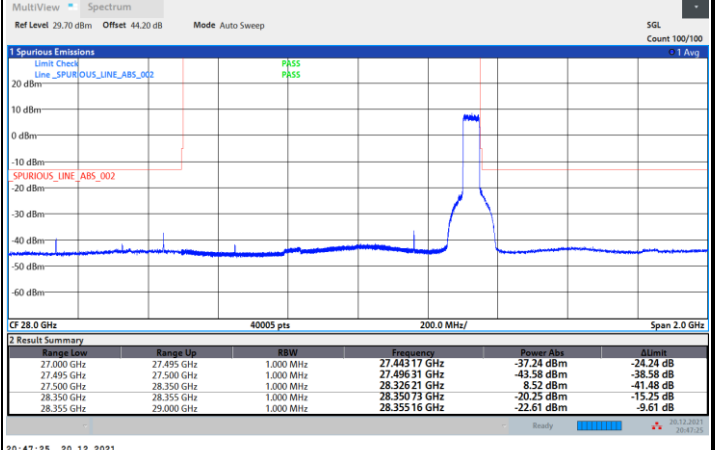
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

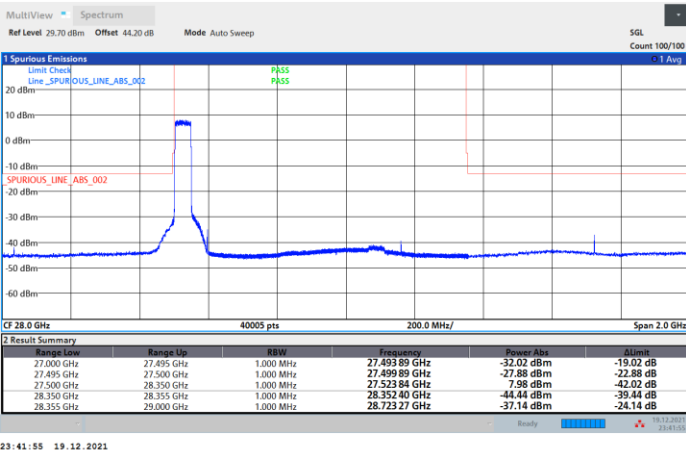


Highest Band Edge / Full RB

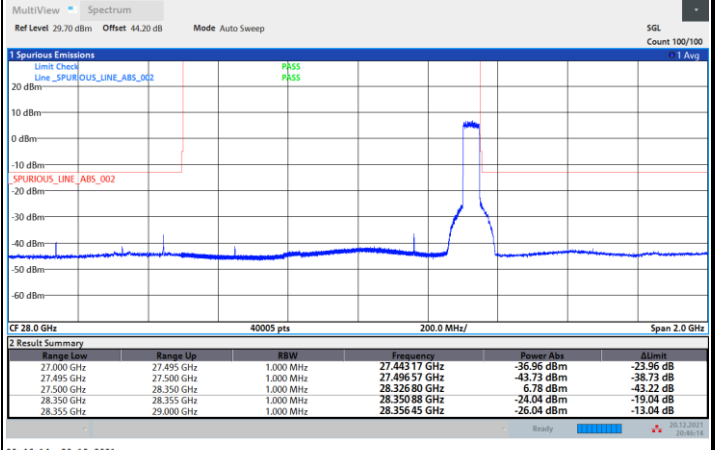


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

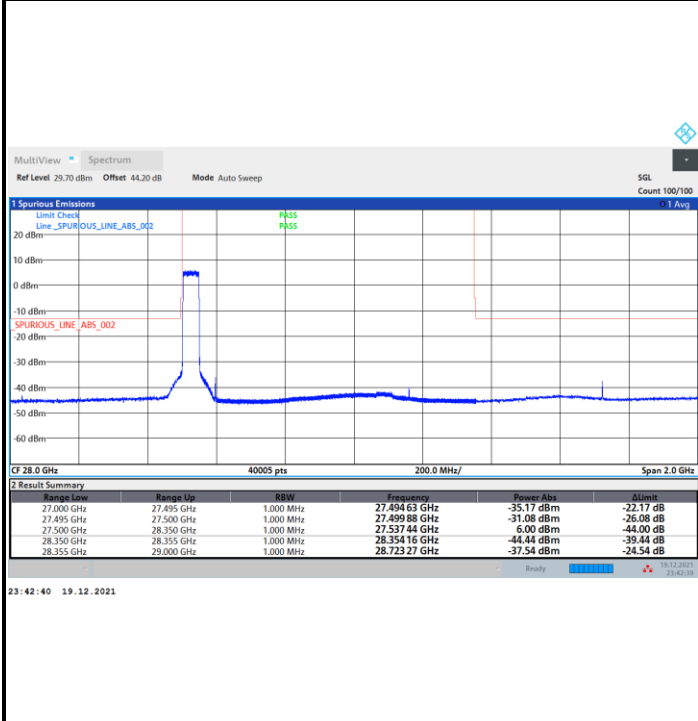




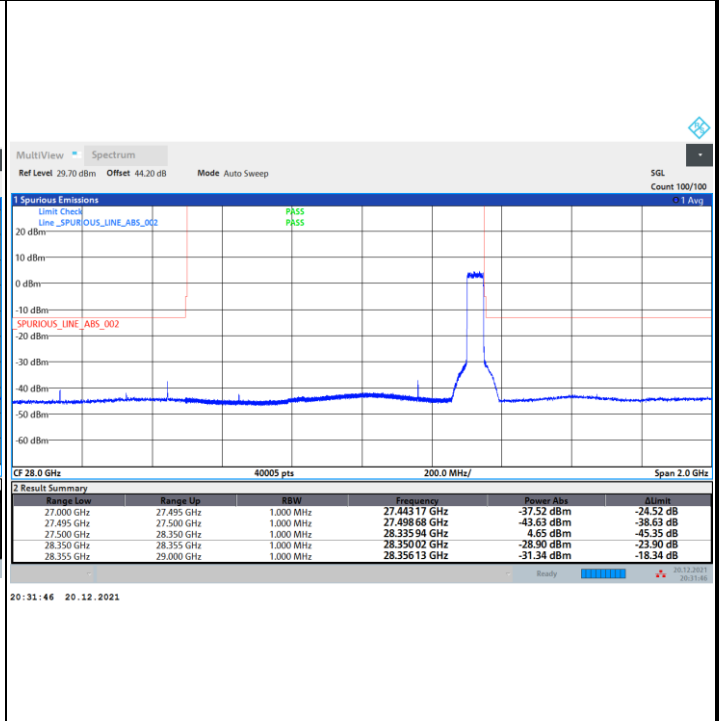
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / Full RB

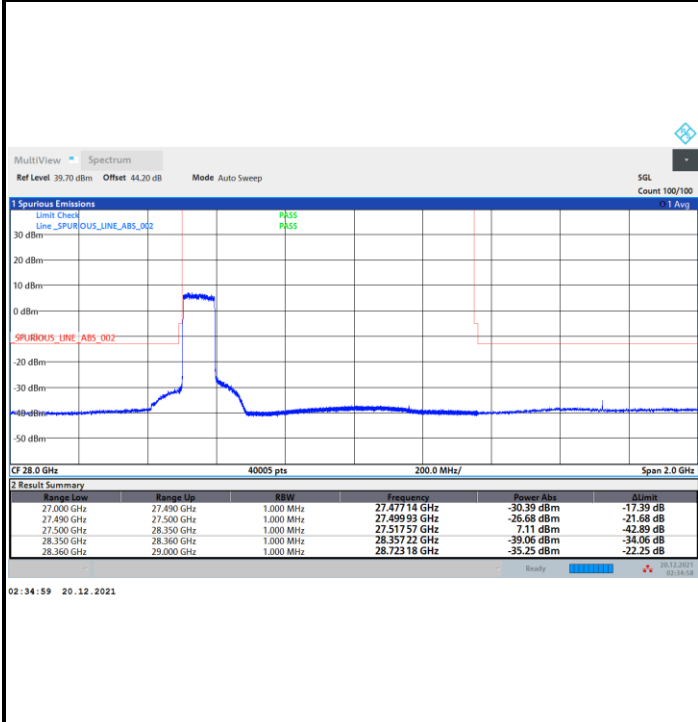


Highest Band Edge / Full RB

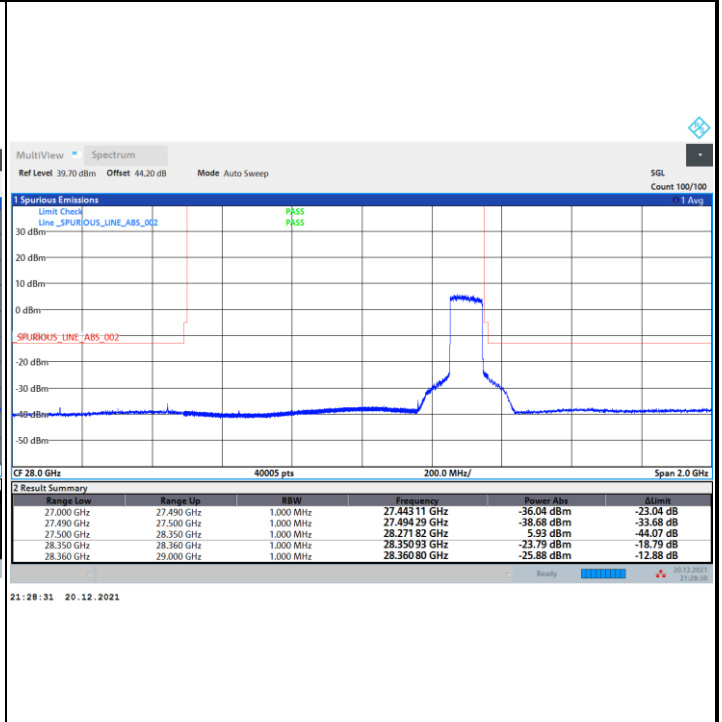


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

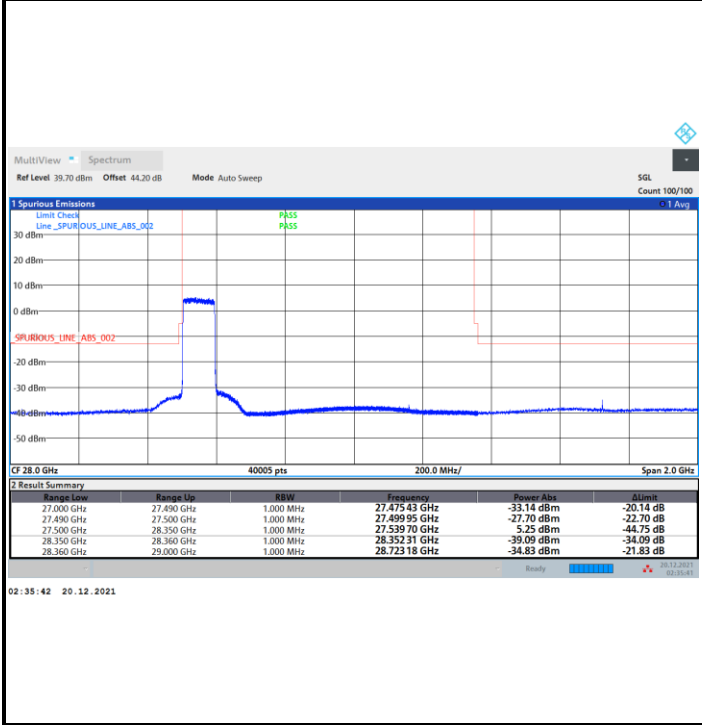




DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB

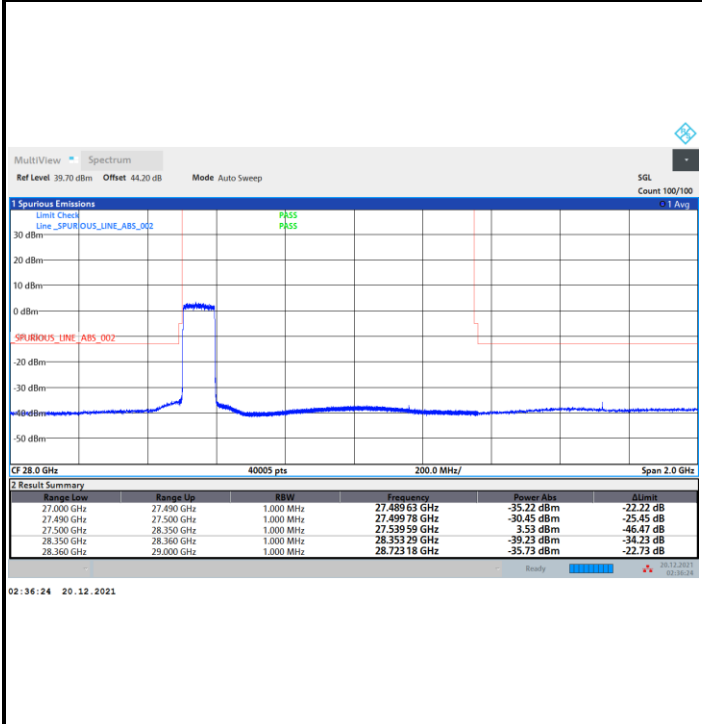


Highest Band Edge / Full RB



NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

