

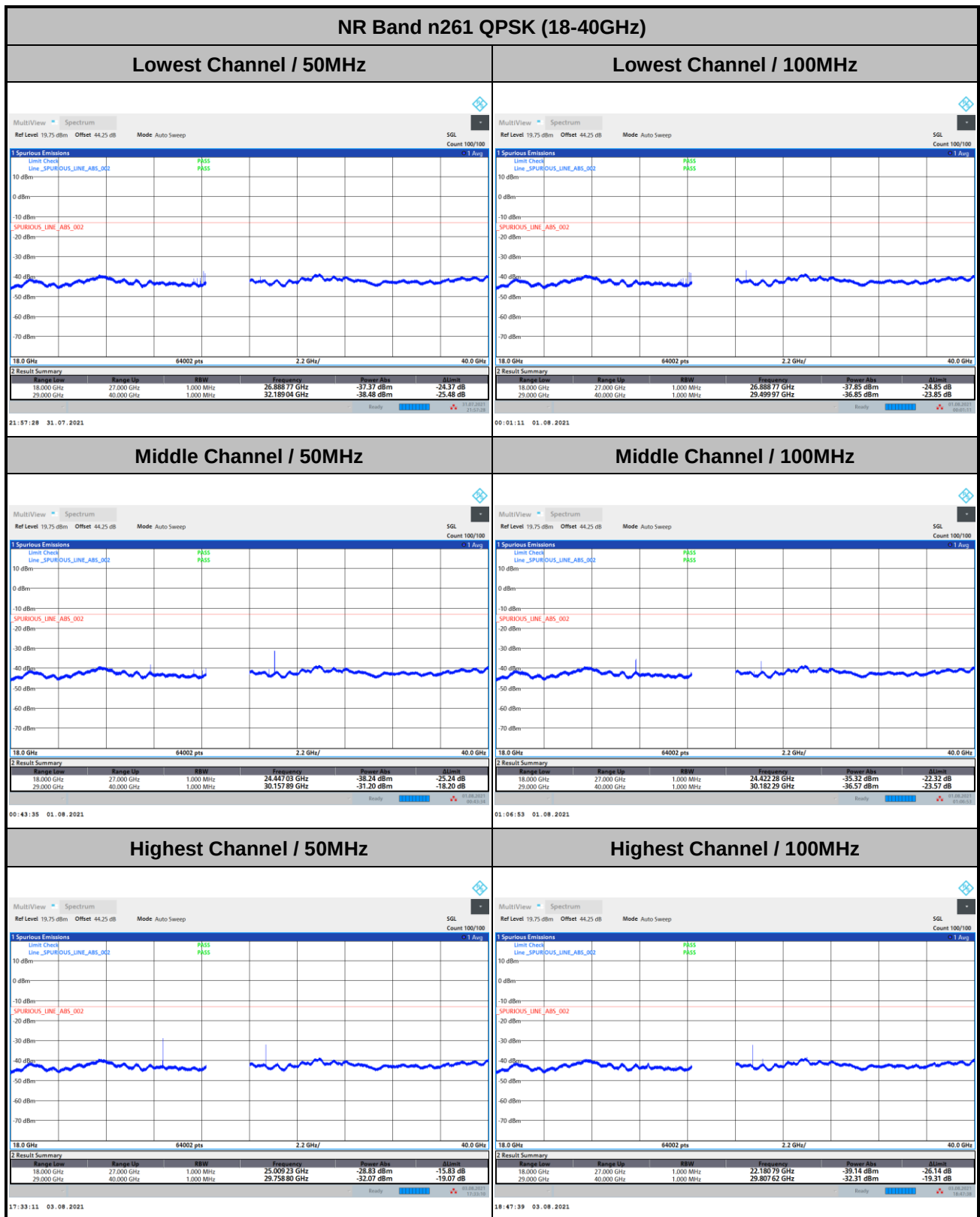


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module 0



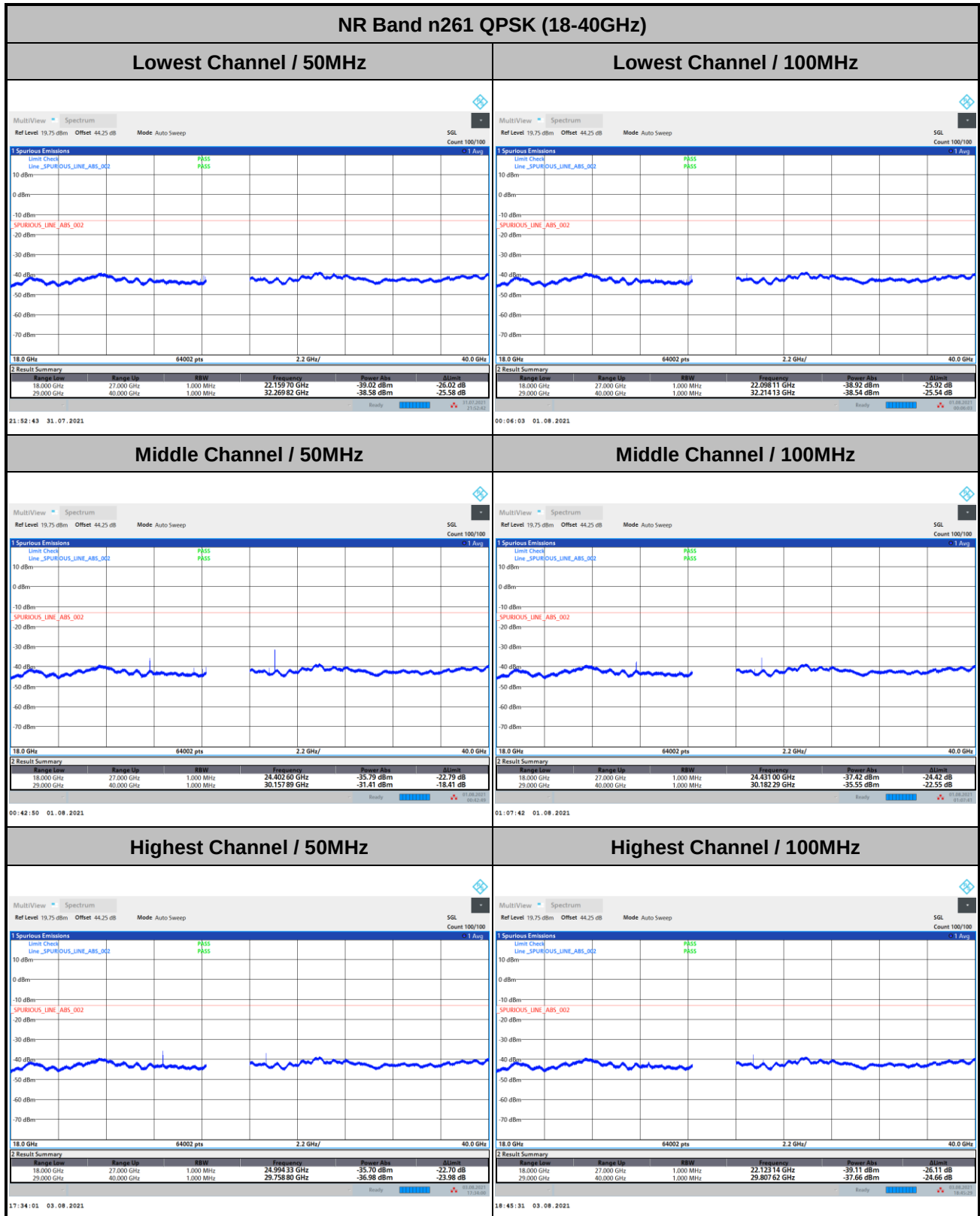
Remark: In band and out of band frequencies that has reported in previous results are omitted.



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



CP-OFDM Module 0

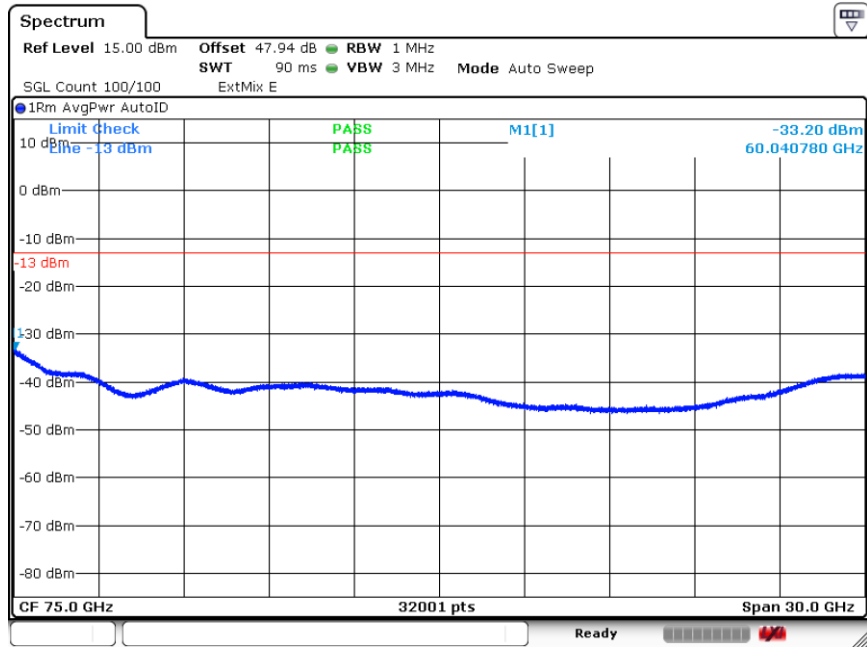


Remark: In band and out of band frequencies that has reported in previous results are omitted.



NR Band n261

(60GHz-90GHz)



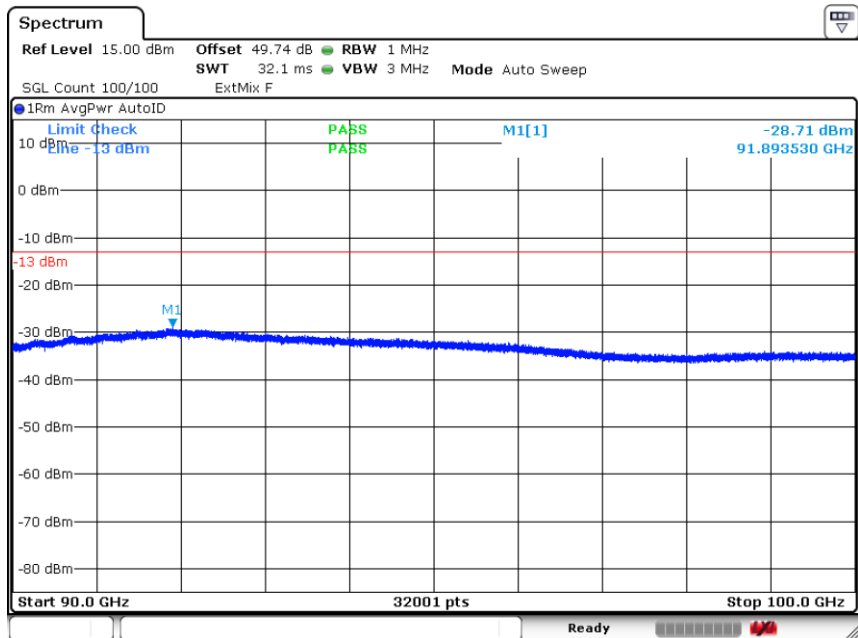
Date: 16.AUG.2021 13:49:07

Note: Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8
= 45.4 + 0.34 + 107 + 20log(1) – 104.8 = 47.94 (dB)



NR Band n261

(90GHz-100GHz)



Date: 16.AUG.2021 14:26:18

Note: Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8
= 47.2 + 0.34 + 107 + 20log(1) – 104.8 = 49.74 (dB)

Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	27.9248621	136.900	4.902	Pass
40	Normal Voltage	27.9248801	118.900	4.258	
30	Normal Voltage	27.9249001	98.900	3.542	
20(Ref.)	Normal Voltage	27.924999	0.000	0.000	
10	Normal Voltage	27.925034	-35.000	1.253	
0	Normal Voltage	27.9251159	-116.900	4.186	
-10	Normal Voltage	27.9251588	-159.800	5.722	
-20	Normal Voltage	27.9251718	-172.800	6.188	
-30	Normal Voltage	27.9251758	-176.800	6.331	
20	Maximum Voltage	27.924983	16.000	0.573	
20	Normal Voltage	27.924991	8.000	0.286	
20	Battery End Point	27.924978	21.000	0.752	

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



NR Band n261 Module 1 Beam AG0

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.15	45.30	45.33	45.29	90.42	90.25	90.46	90.59
Middle CH	45.17	45.18	45.34	45.24	90.21	90.46	90.14	90.17
Highest CH	45.15	45.05	45.15	45.10	90.59	90.07	90.20	90.58

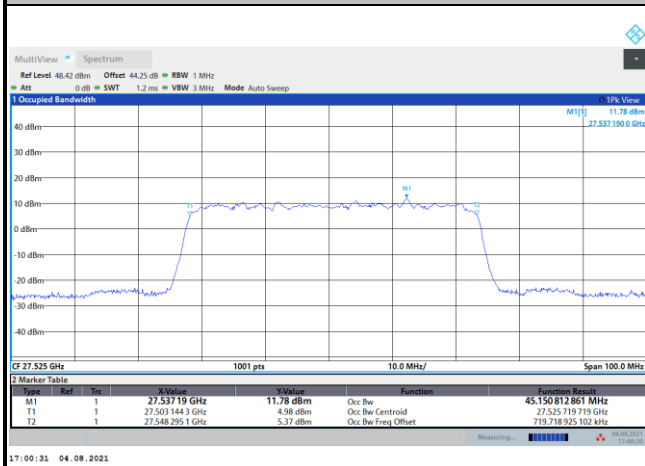
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.41	45.26	45.19	92.63	92.93	92.79
Middle CH	45.41	45.27	45.19	92.46	92.65	92.87
Highest CH	45.39	45.27	45.18	92.82	92.58	92.67



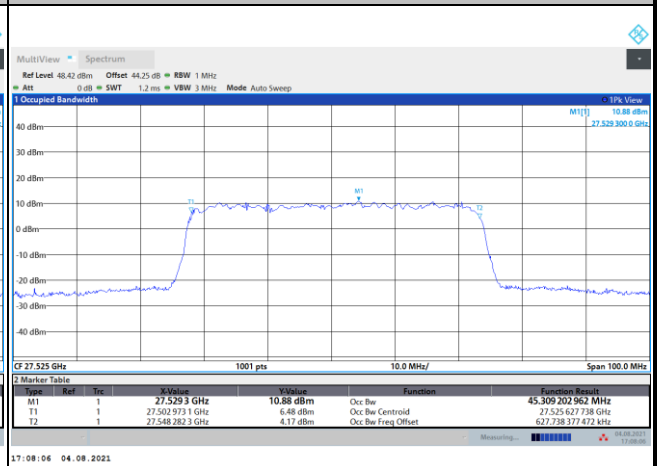
DFT-s-OFDM Module 1

NR Band n261

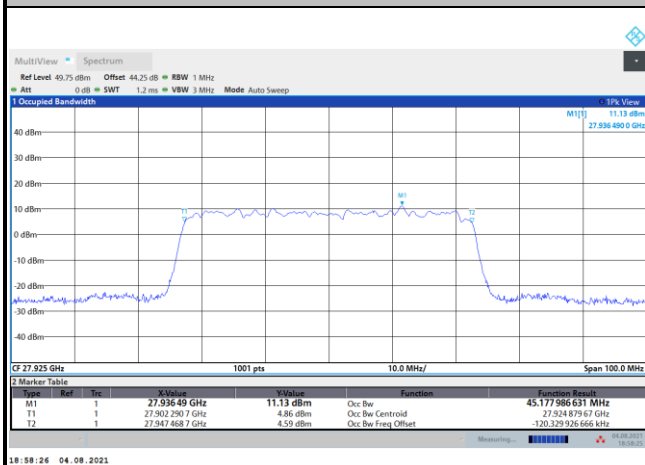
Lowest Channel / 50MHz / BPSK



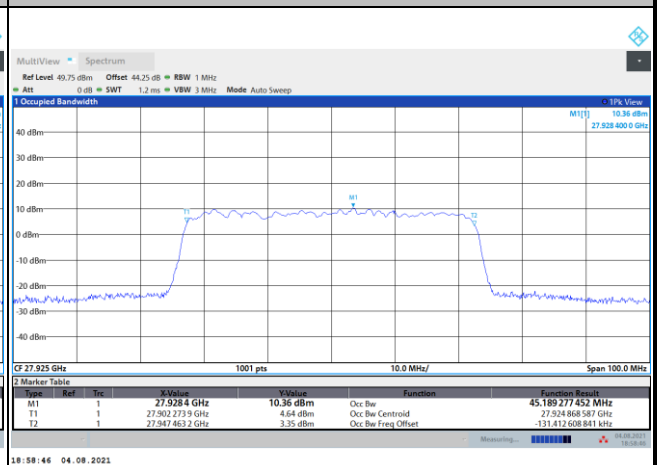
Lowest Channel / 50MHz / QPSK



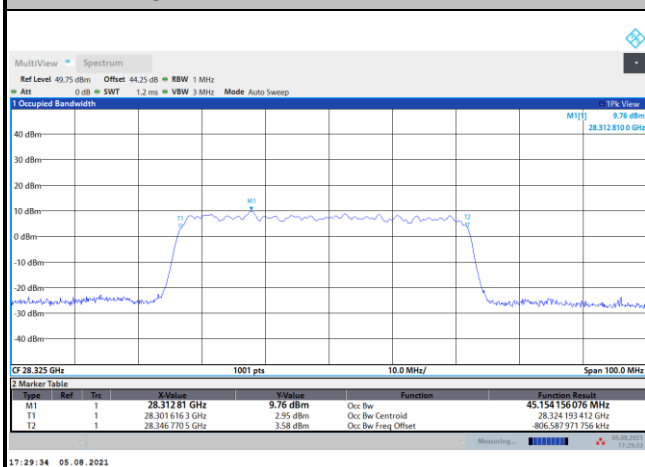
Middle Channel / 50MHz / BPSK



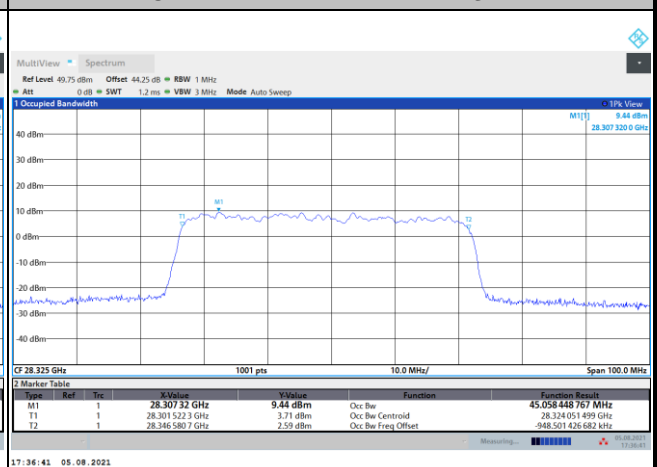
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

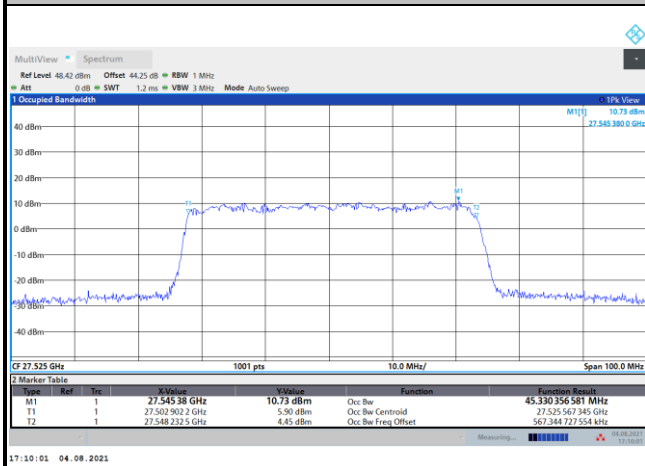




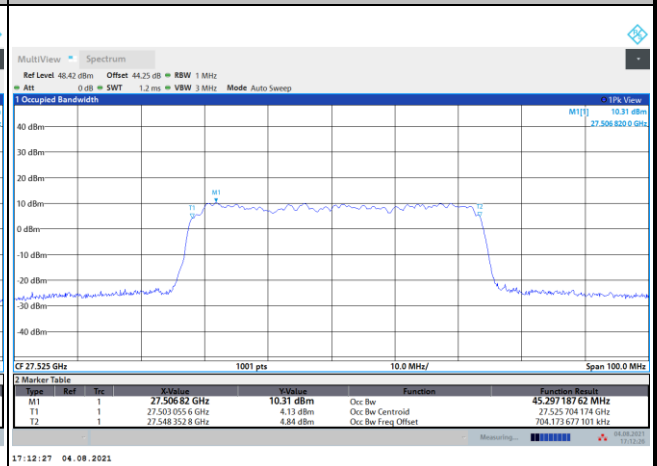
DFT-s-OFDM Module 1

NR Band n261

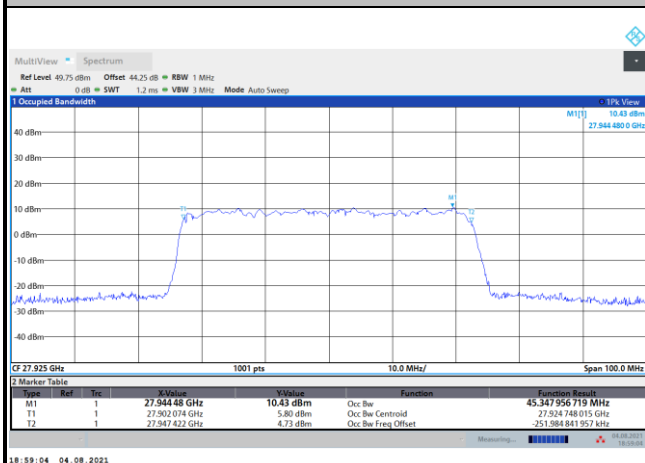
Lowest Channel / 50MHz / 16QAM



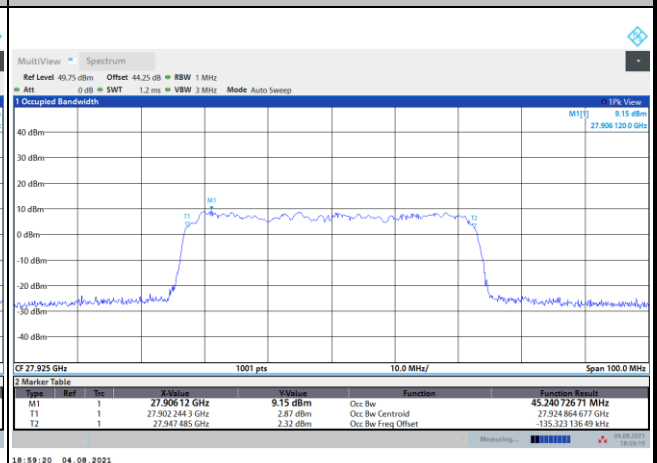
Lowest Channel / 50MHz / 64QAM



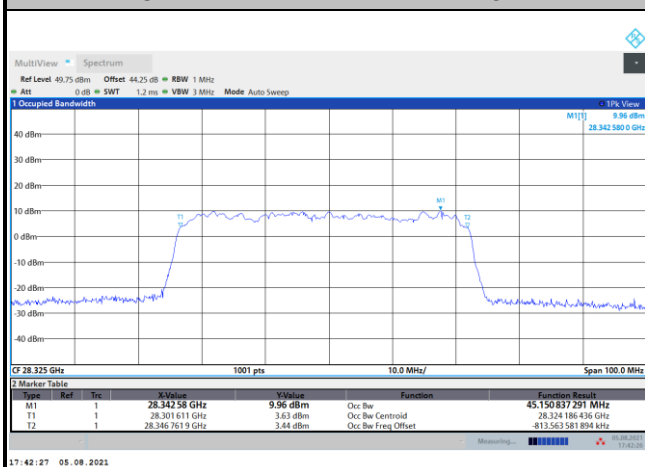
Middle Channel / 50MHz / 16QAM



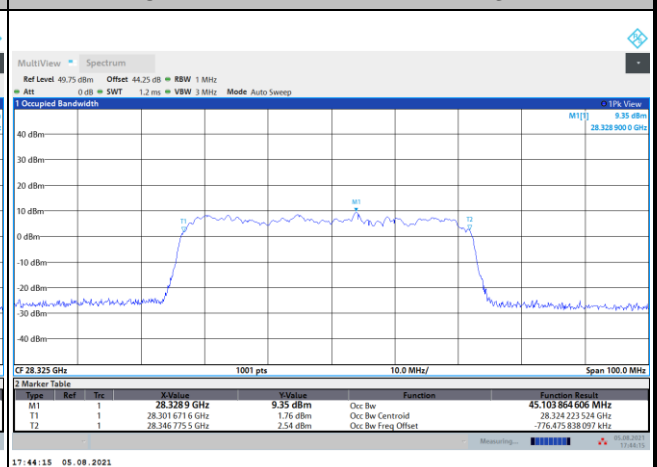
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

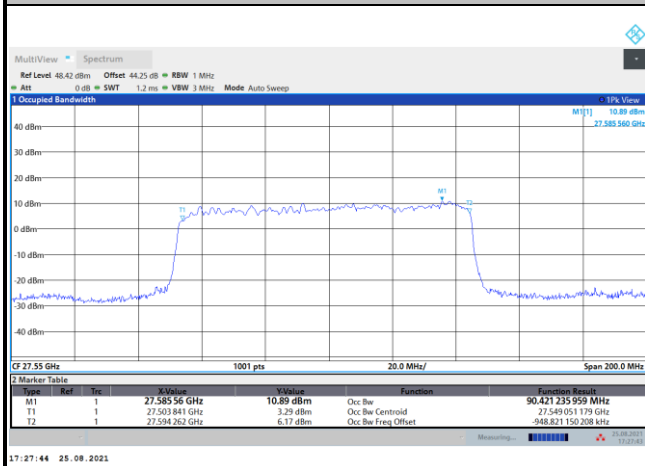




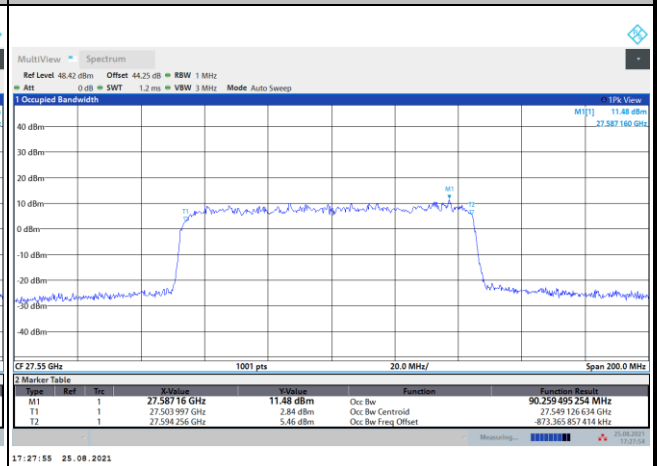
DFT-s-OFDM Module 1

NR Band n261

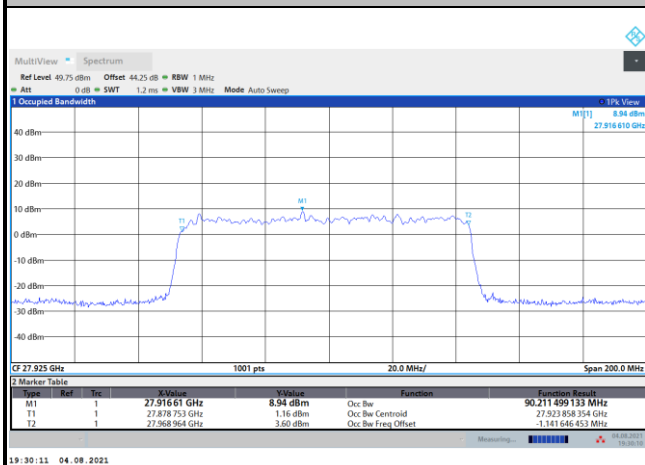
Lowest Channel / 100MHz / BPSK



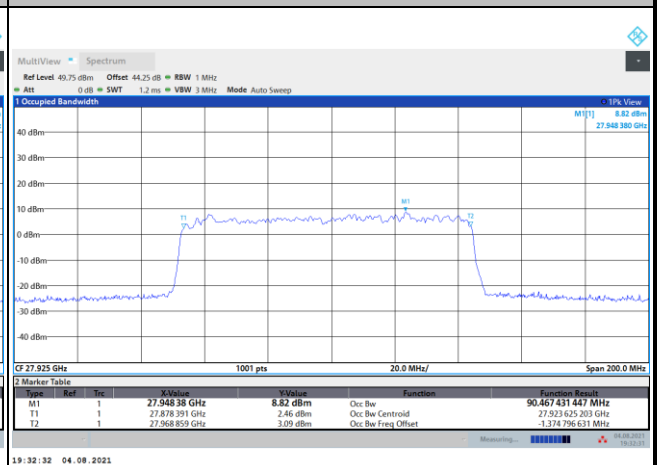
Lowest Channel / 100MHz / QPSK



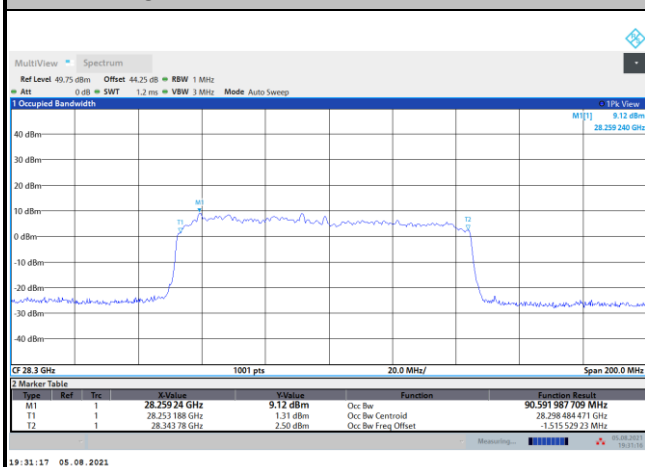
Middle Channel / 100MHz / BPSK



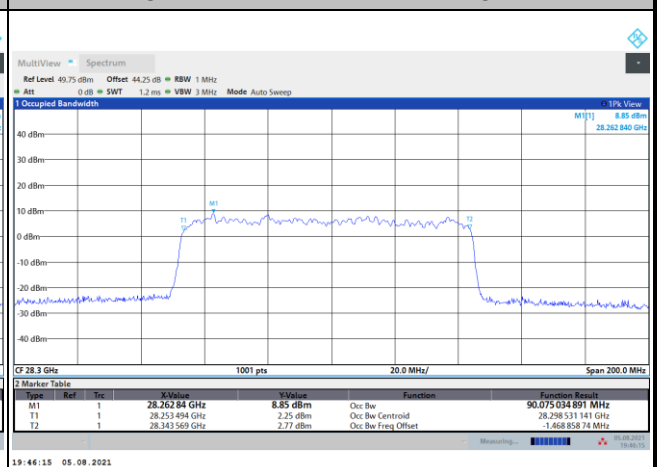
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

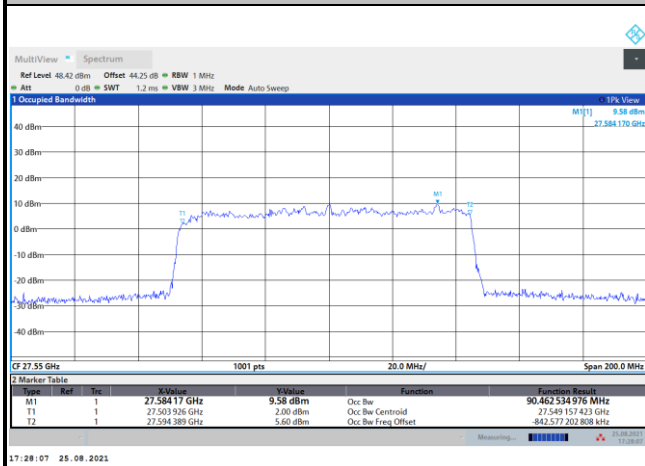




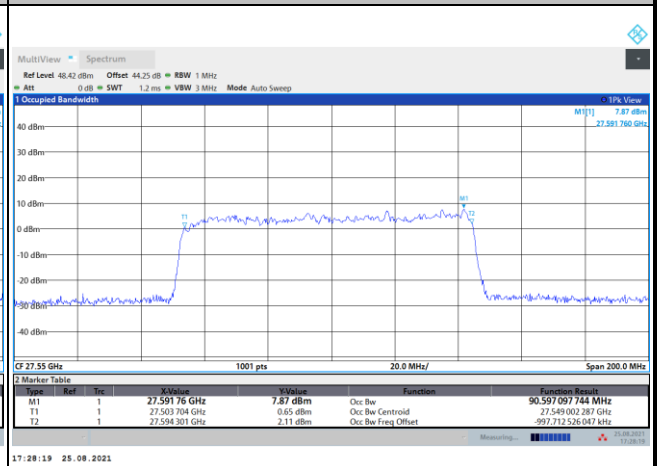
DFT-s-OFDM Module 1

NR Band n261

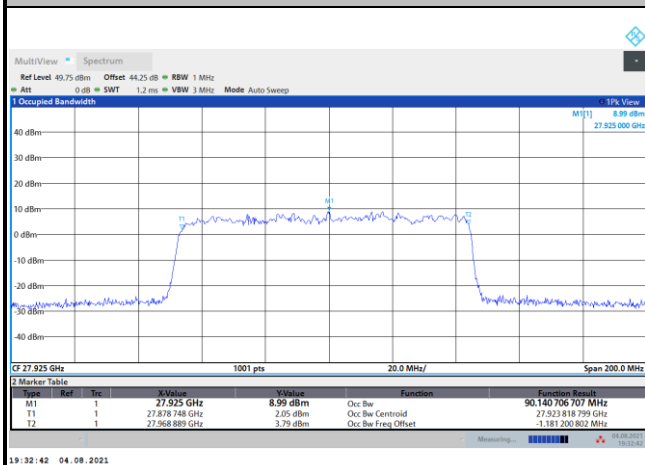
Lowest Channel / 100MHz / 16QAM



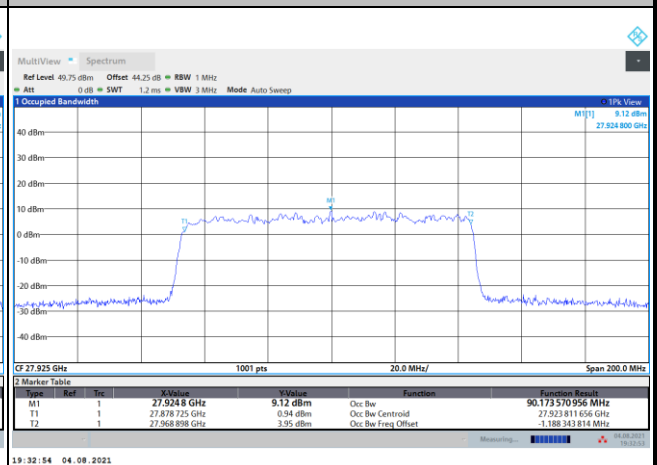
Lowest Channel / 100MHz / 64QAM



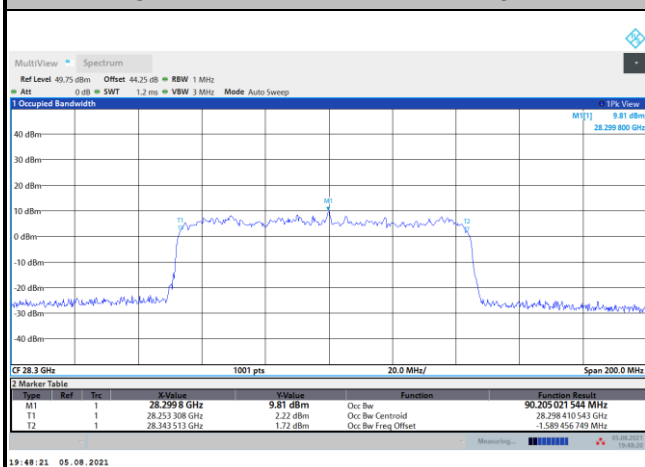
Middle Channel / 100MHz / 16QAM



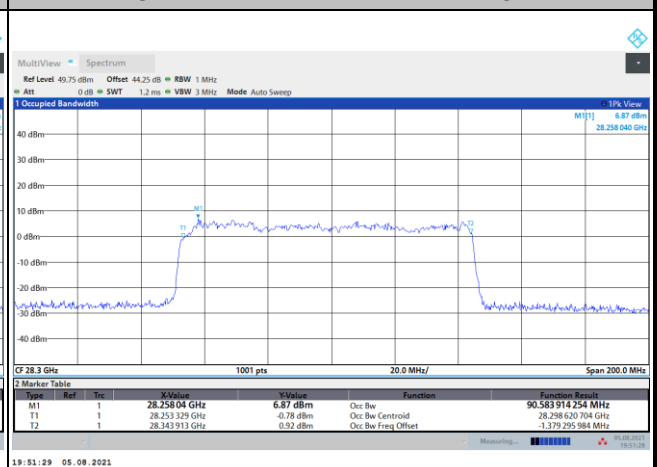
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

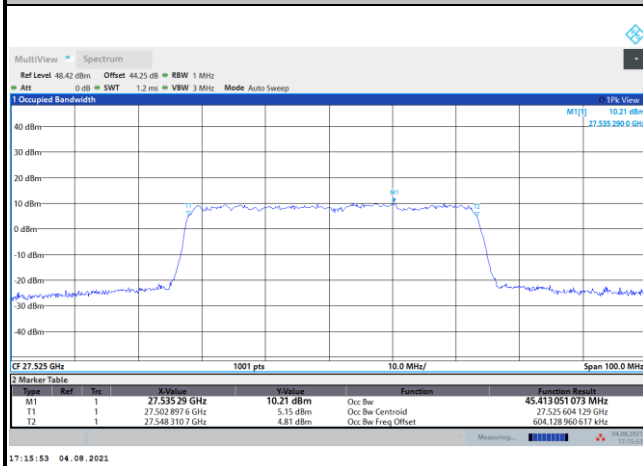




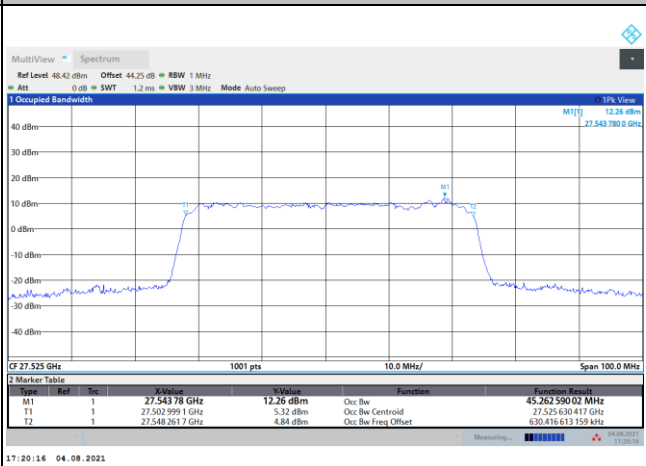
CP-OFDM Module 1

NR Band n261

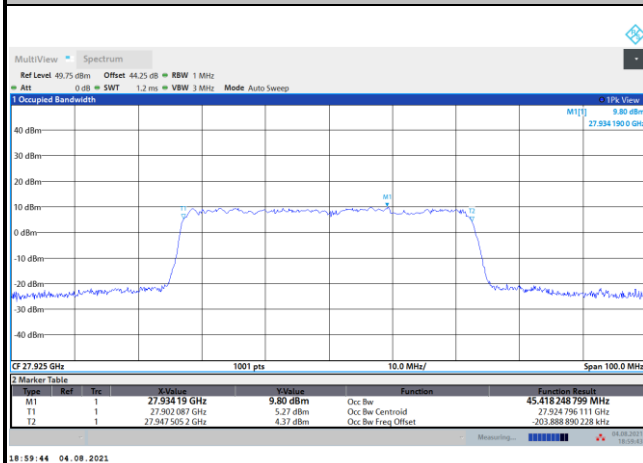
Lowest Channel / 50MHz / QPSK



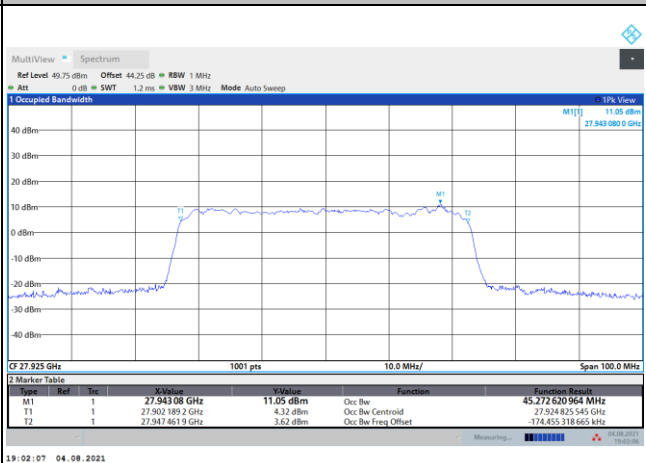
Lowest Channel / 50MHz / 16QAM



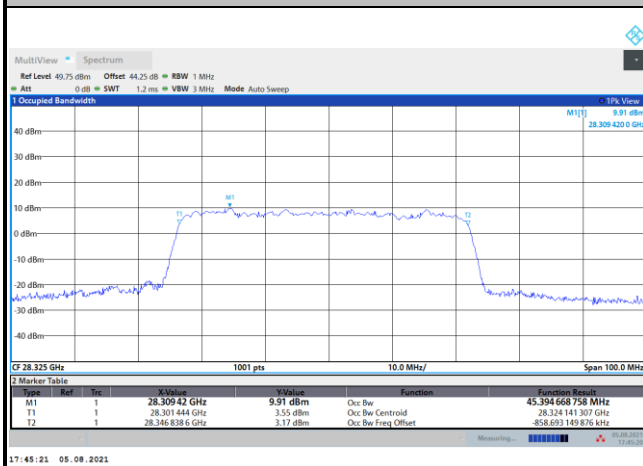
Middle Channel / 50MHz / QPSK



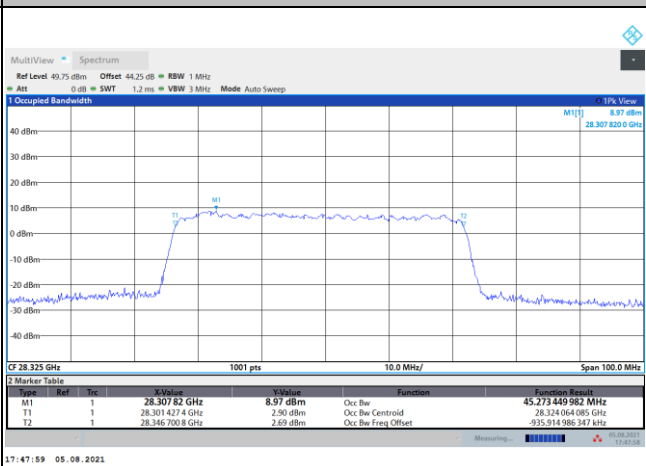
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

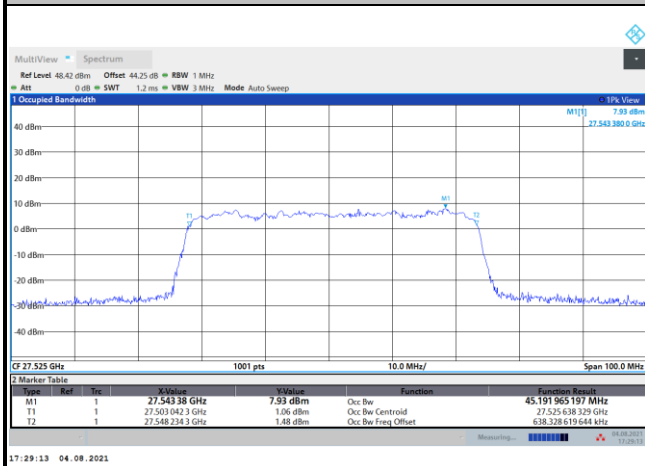




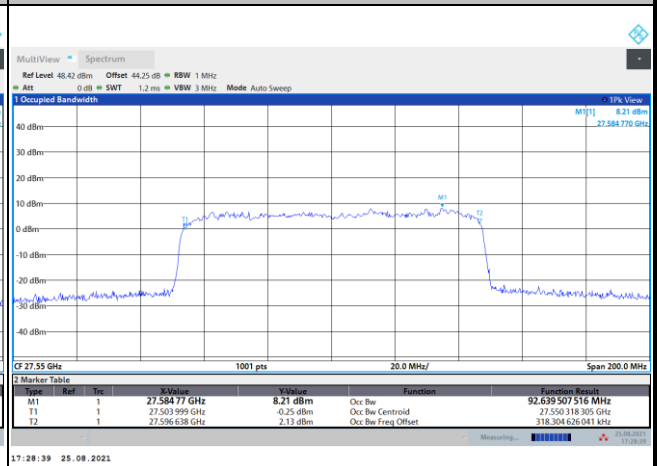
CP-OFDM Module 1

NR Band n261

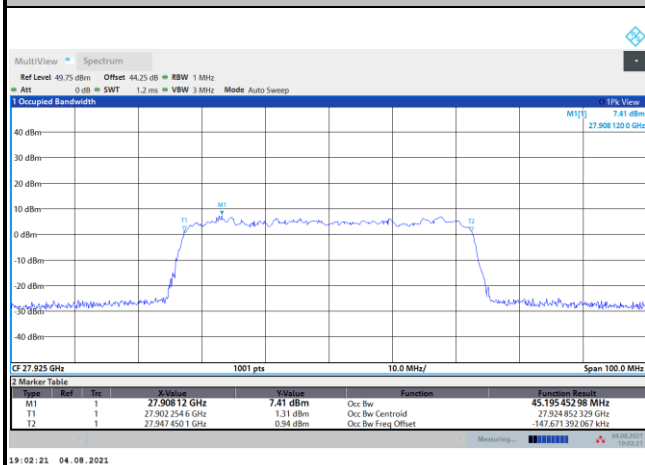
Lowest Channel / 50MHz / 64QAM



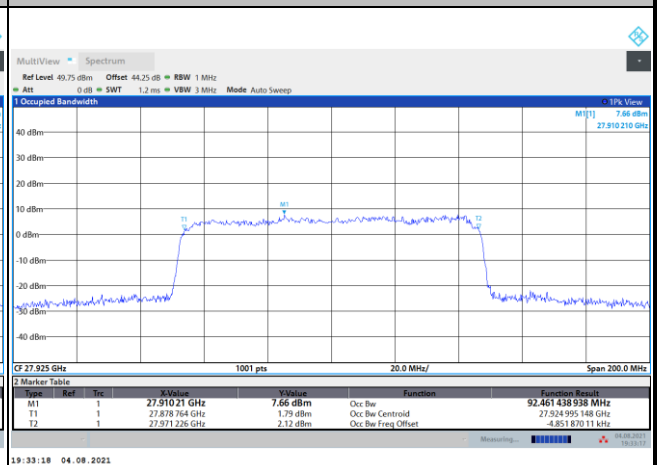
Lowest Channel / 100MHz / QPSK



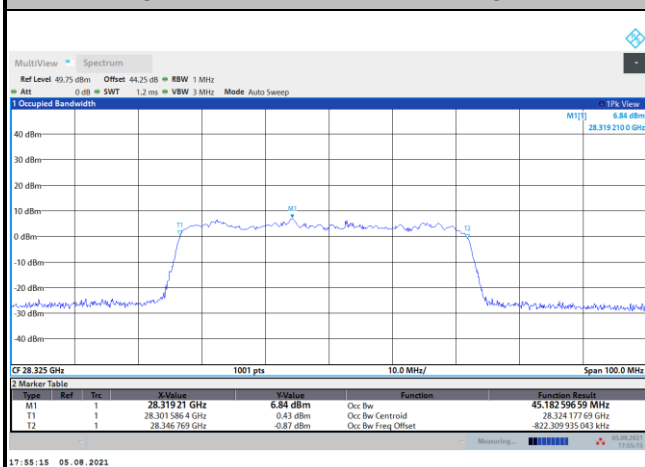
Middle Channel / 50MHz / 64QAM



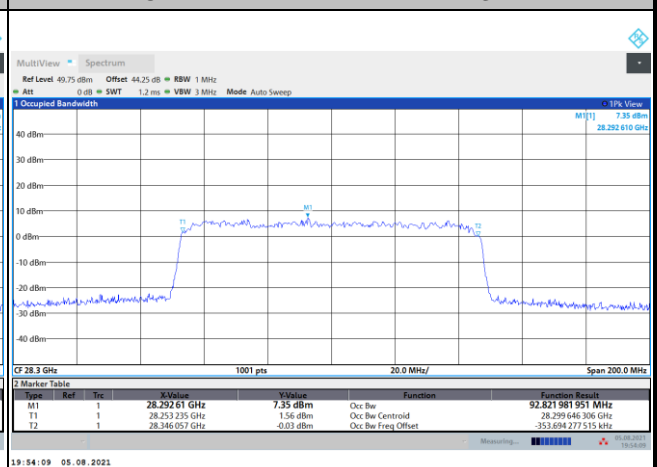
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

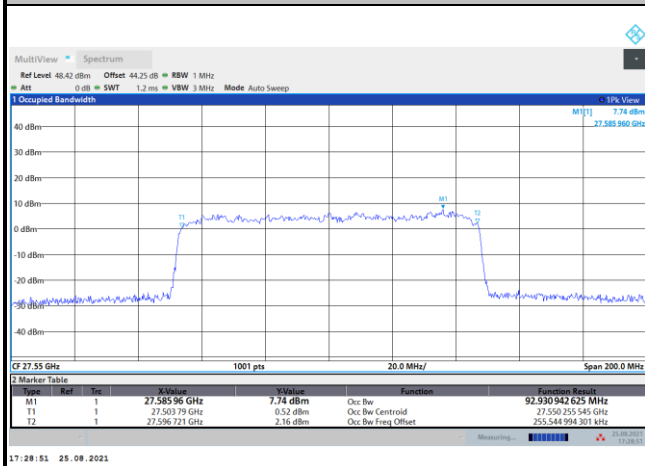




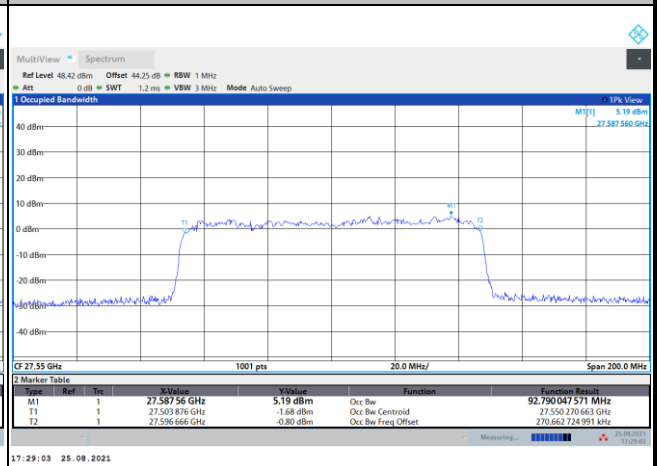
CP-OFDM Module 1

NR Band n261

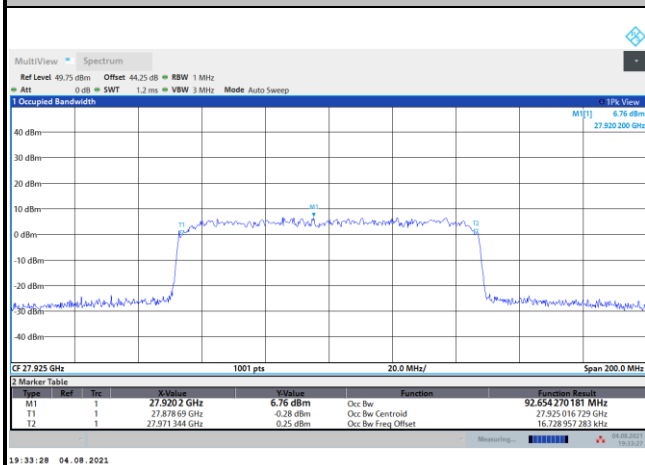
Lowest Channel / 100MHz / 16QAM



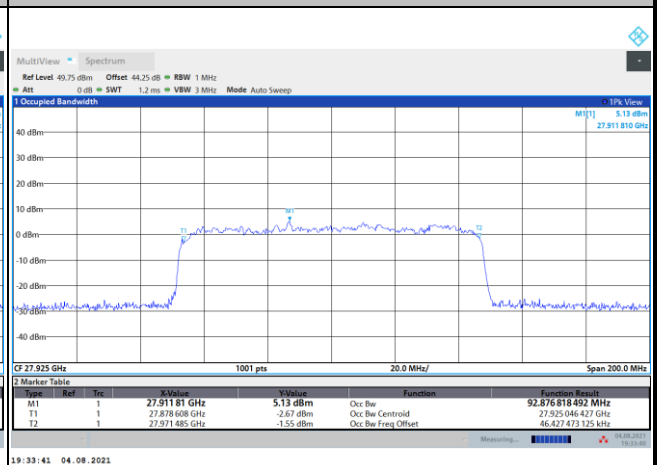
Lowest Channel / 100MHz / 64QAM



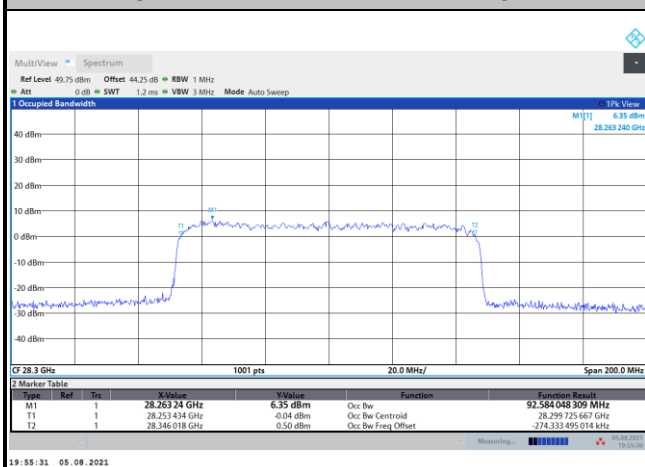
Middle Channel / 100MHz / 16QAM



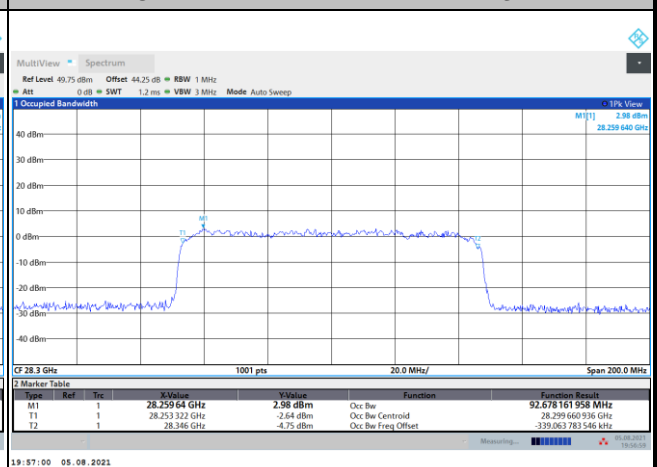
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB							
BW			50MHz				100MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-21.42	-23.08	-23.52	-22.24	-21.06	-21.03	-19.51	-21.87
	>10%OB	≤ -13	-31.63	-31.67	-31.81	-31.6	-26.27	-26.59	-26.60	-26.55
HighCH	0~10%OB	≤ -5	-27.91	-27.96	-28.01	-28.54	-22.86	-23.42	-22.96	-24.55
	>10%OB	≤ -13	-31.06	-31.06	-30.77	-30.78	-25.86	-26.00	-25.83	-25.91
Result			Compliance							

Mode			CP-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	-21.07	-21.88	-22.89	-20.86	-20.70	-23.05
	>10%OB	≤ -13	-31.52	-31.49	-31.57	-26.57	-26.32	-26.70
High CH	0~10%OB	≤ -5	-28.6	-29.65	-29.96	-24.11	-24.52	-25.39
	>10%OB	≤ -13	-30.87	-30.94	-30.94	-25.82	-25.82	-25.83
Result			Compliance					

Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) Full RB							
BW			50MHz				100MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-30.46	-29.74	-30.13	-30.13	-26.76	-26.61	-26.79	-26.94
	>10%OB	≤ -13	-31.4	-30.69	-30.75	-30.76	-26.44	-26.55	-26.72	-26.5
HighCH	0~10%OB	≤ -5	-31.01	-30.7	-30.06	-30.84	-26.4	-26.23	-26.35	-26.46
	>10%OB	≤ -13	-31.03	-31.04	-30.8	-31.17	-25.87	-25.64	-25.82	-25.77
Result			Compliance							

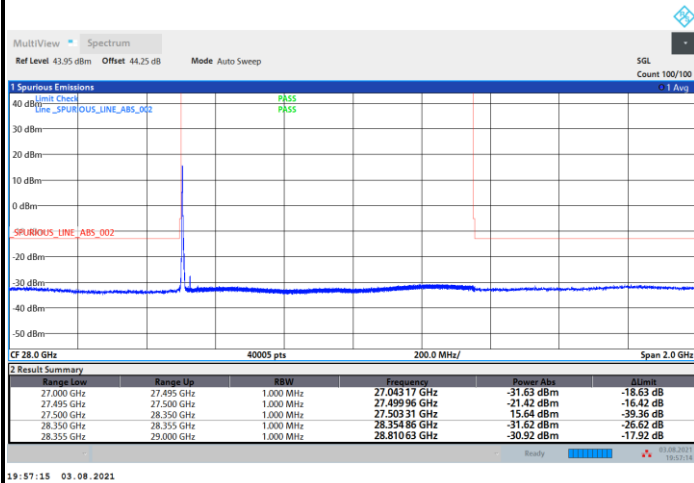
Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-29.14	-29.16	-30.94	-26.32	-26.75	-27.27
	>10%OB	≤ -13	-30.29	-30.26	-31.70	-26.64	-26.66	-26.54
High CH	0~10%OB	≤ -5	-29.95	-30.58	-31.35	-26.19	-26.28	-26.31
	>10%OB	≤ -13	-30.24	-31.06	-30.93	-25.83	-25.98	-25.8
Result			Compliance					



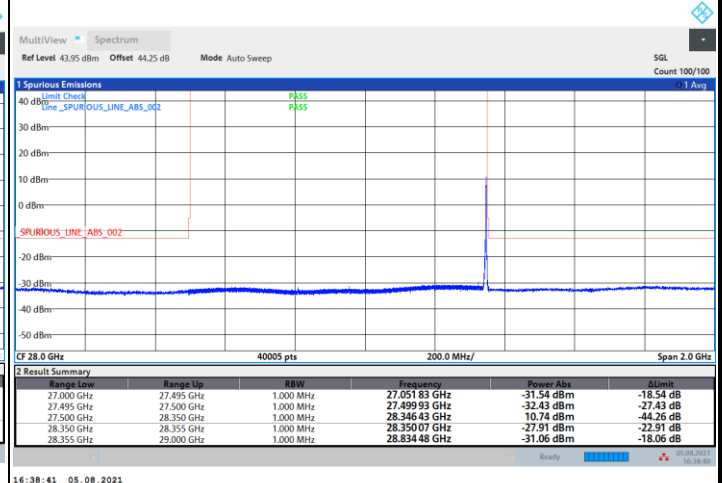
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / 1 RB

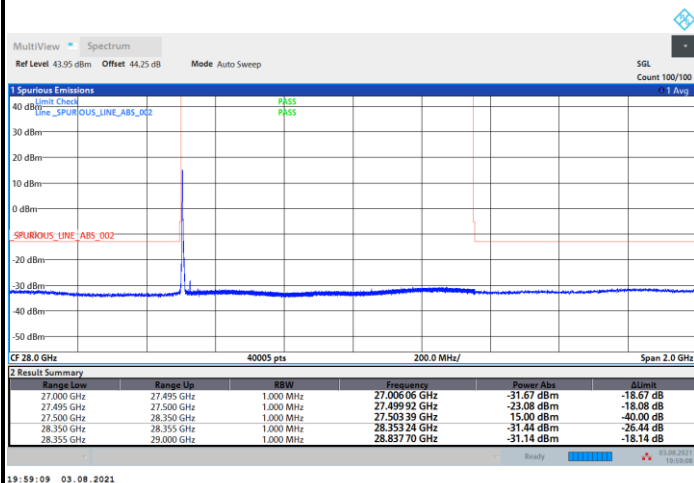


Highest Band Edge / 1 RB

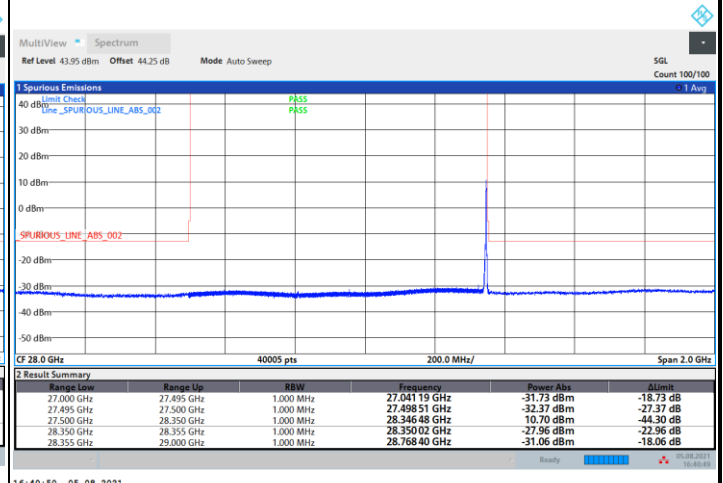


NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

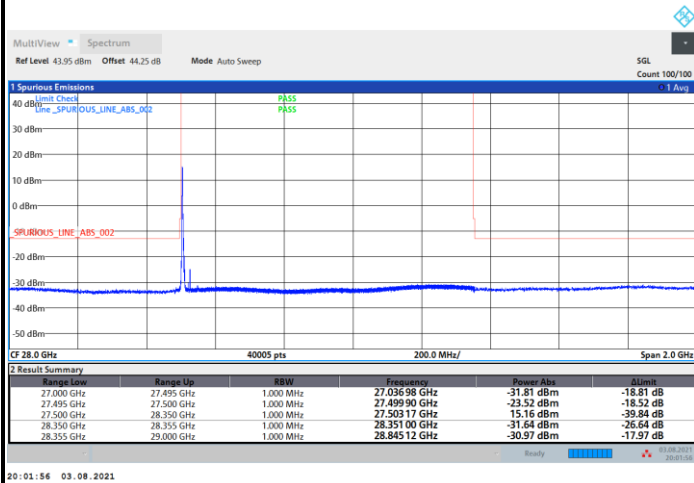




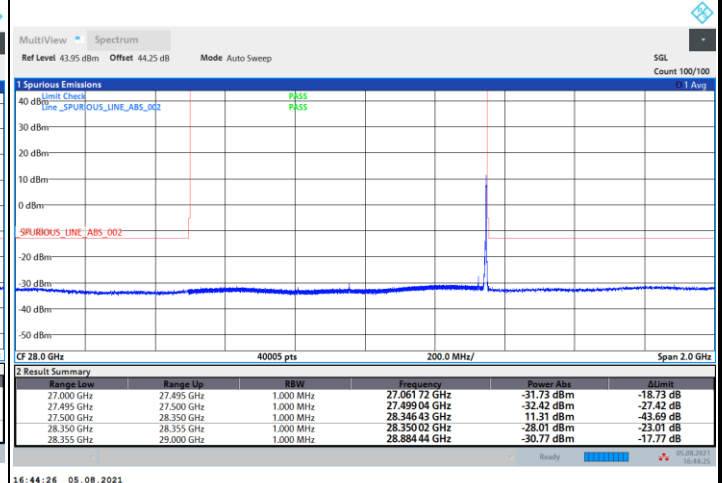
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB

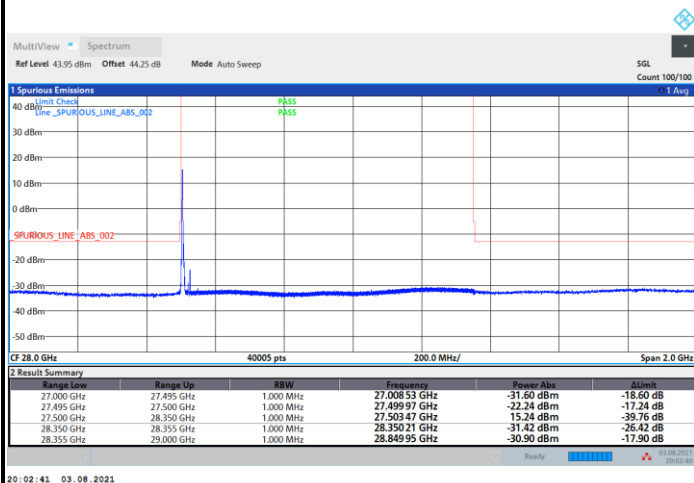


Highest Band Edge / 1 RB

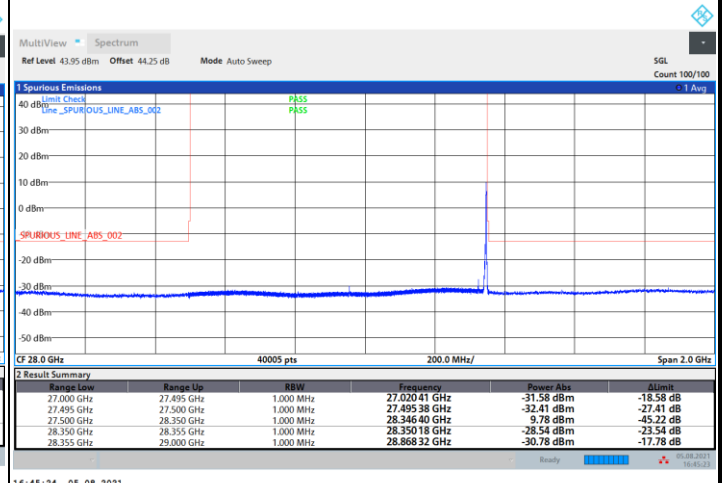


NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

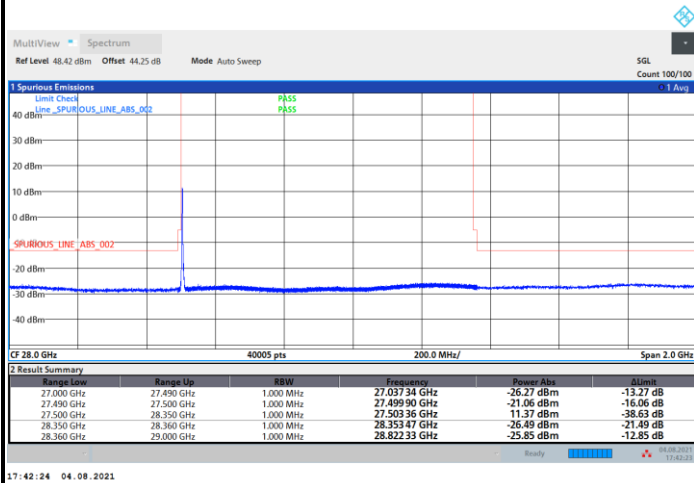




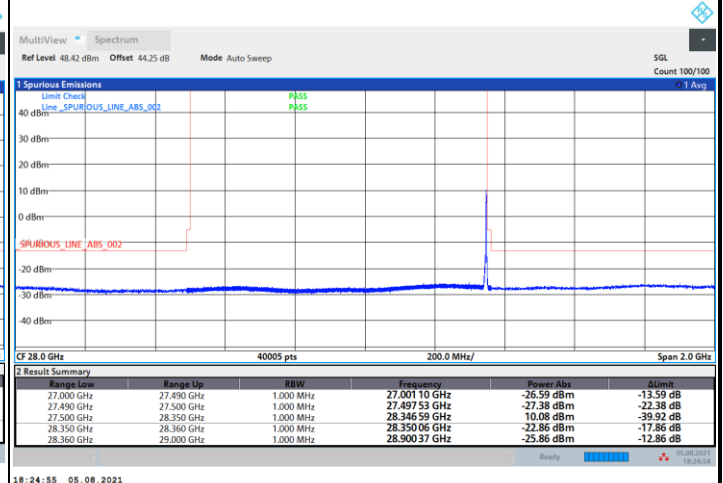
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / 1 RB

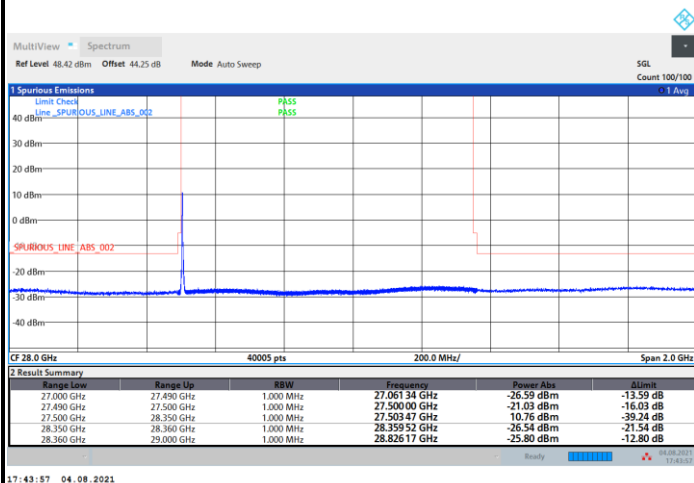


Highest Band Edge / 1 RB

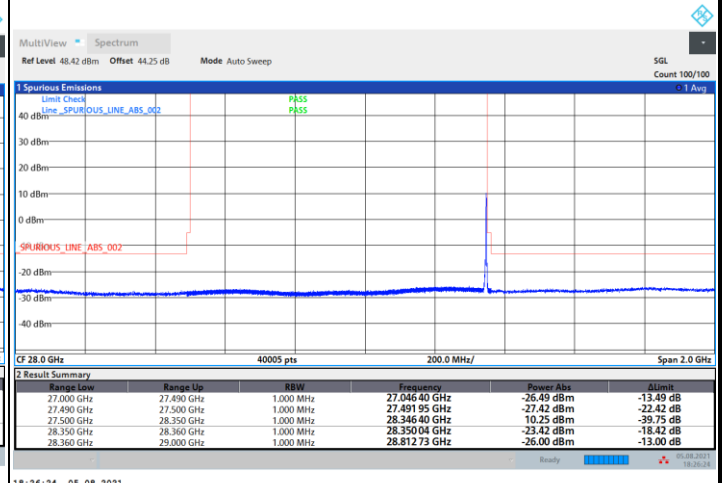


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

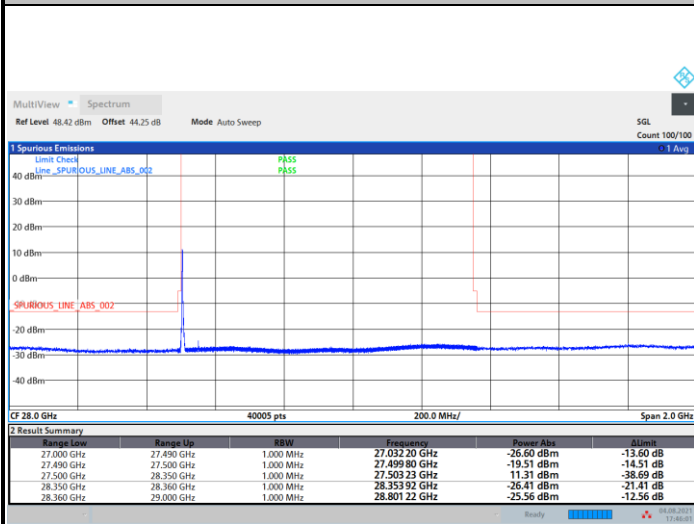




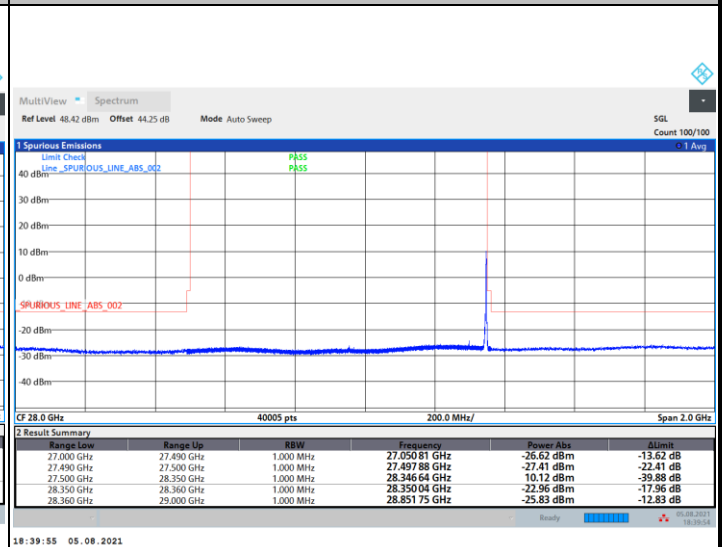
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

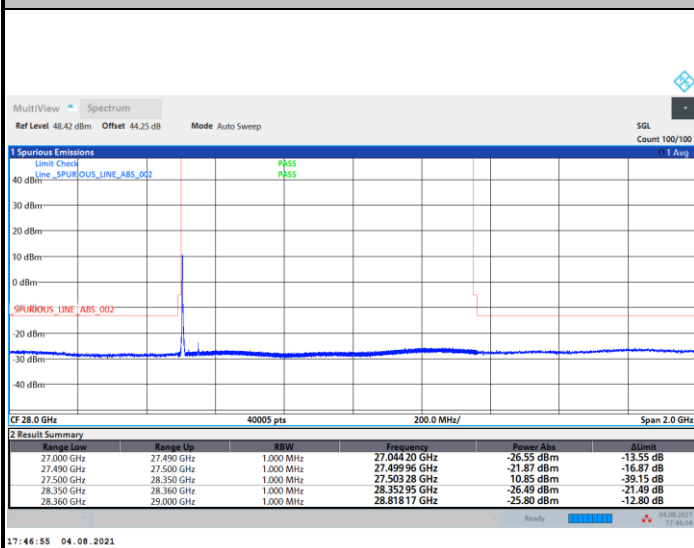


Highest Band Edge / 1 RB

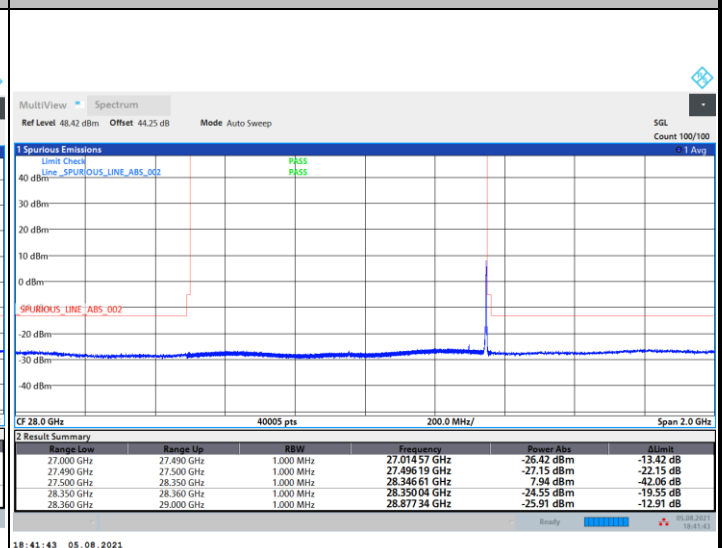


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

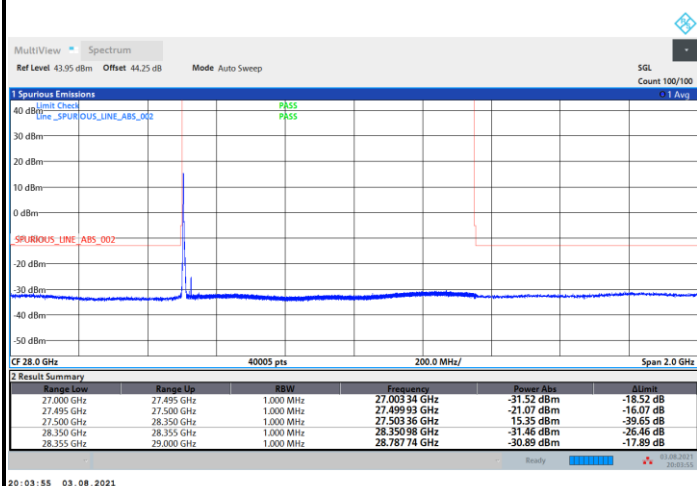




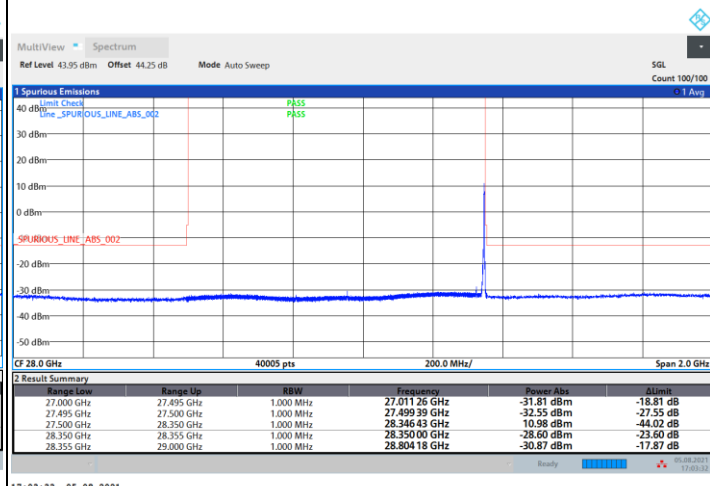
CP-OFDM Module 1

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

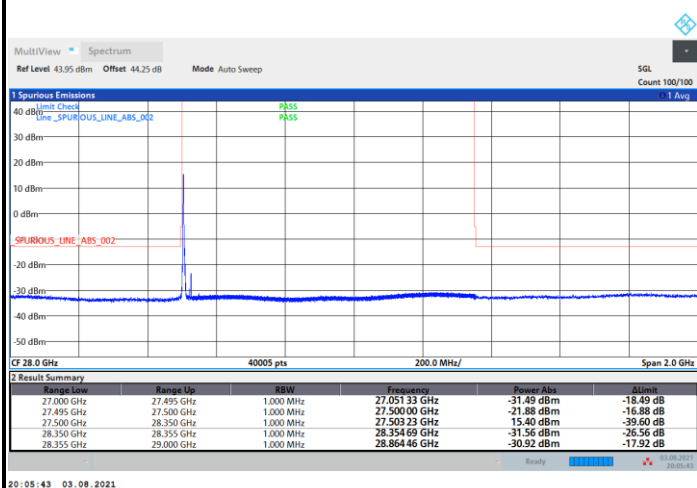


Highest Band Edge / 1 RB

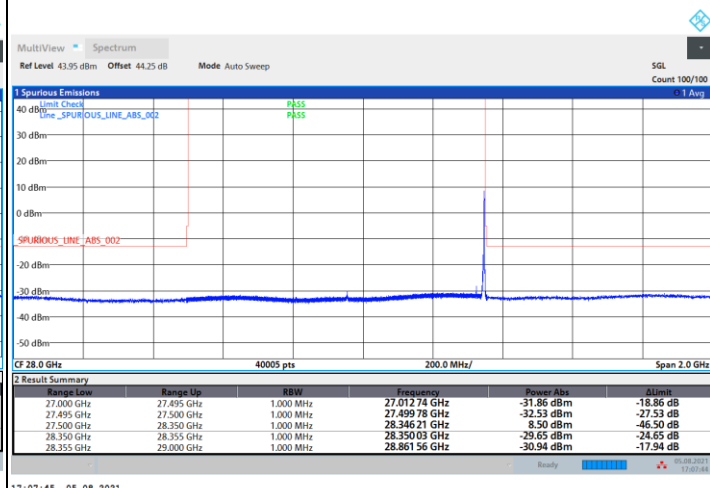


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

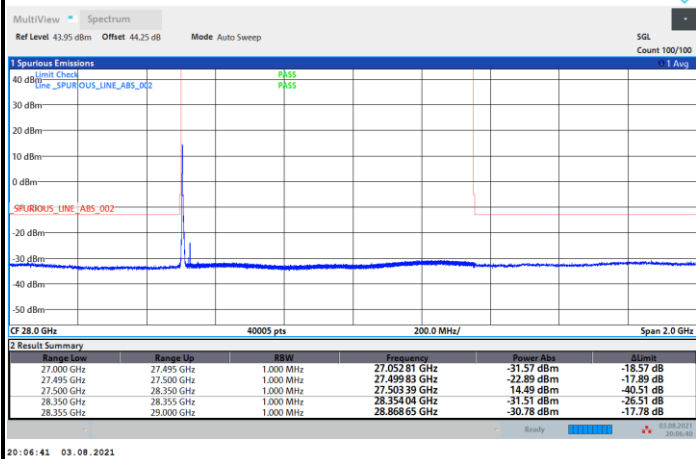




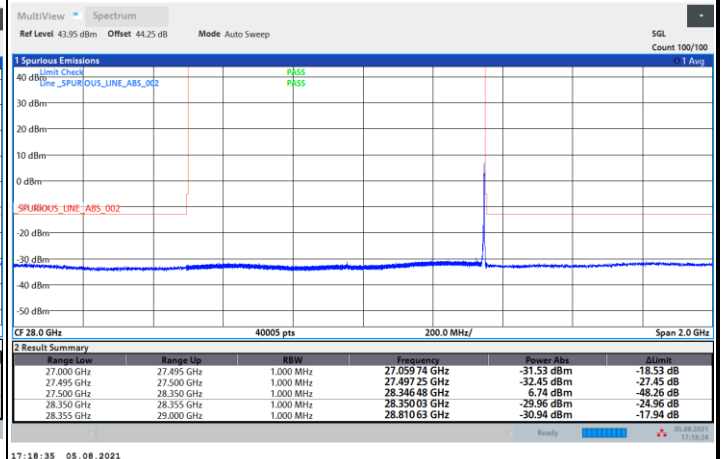
CP-OFDM Module 1

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / 1 RB

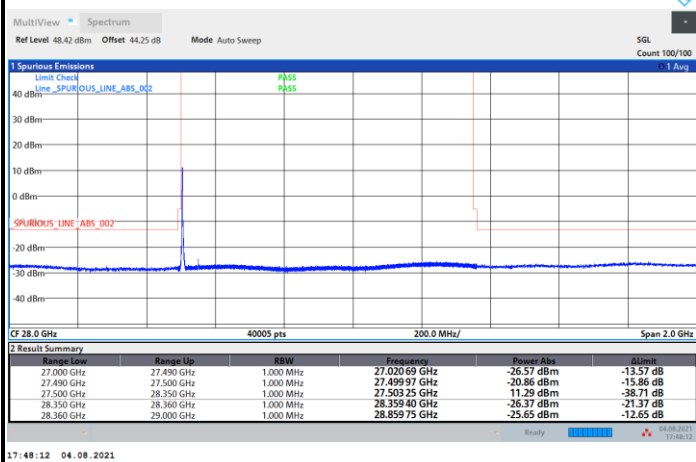


Highest Band Edge / 1 RB

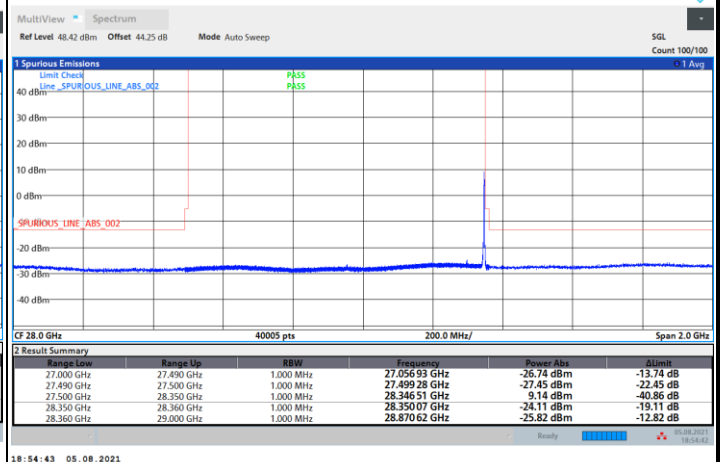


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

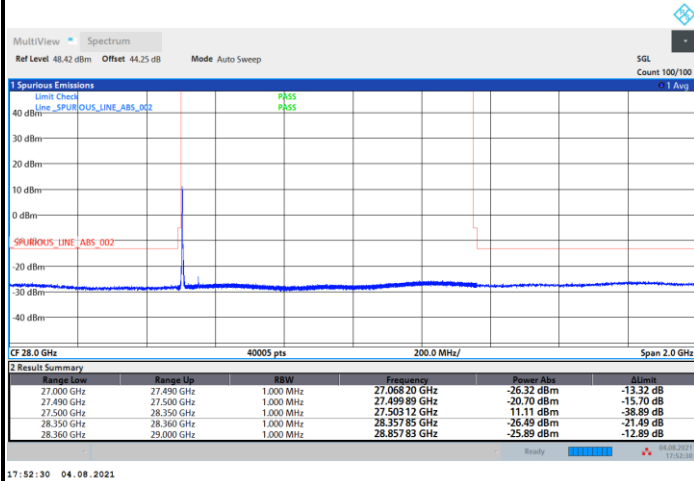




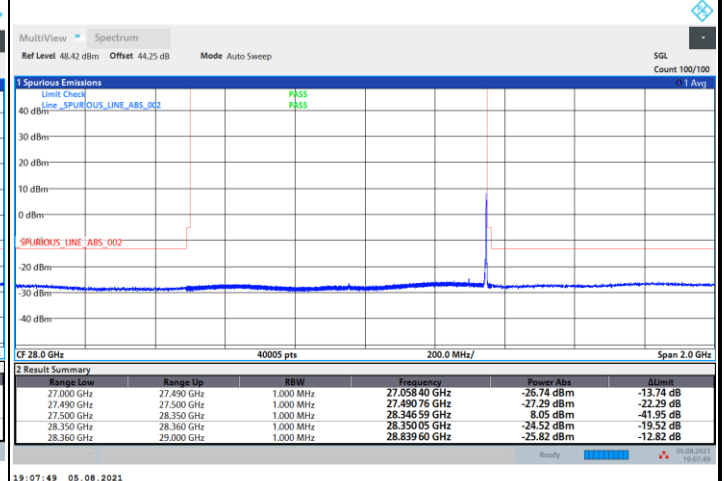
CP-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

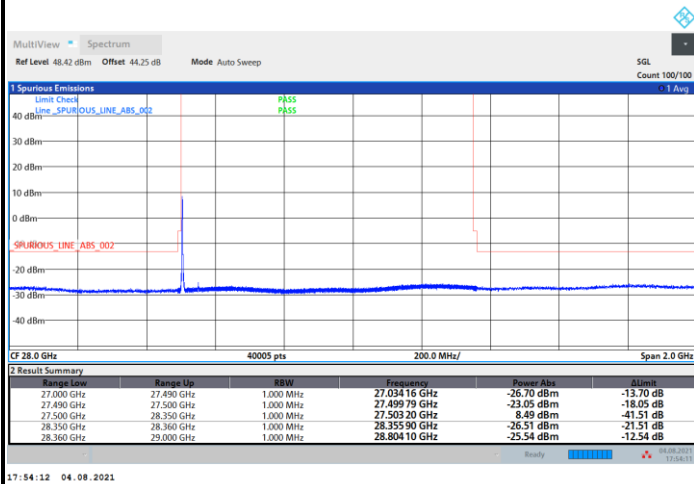


Highest Band Edge / 1 RB



NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

