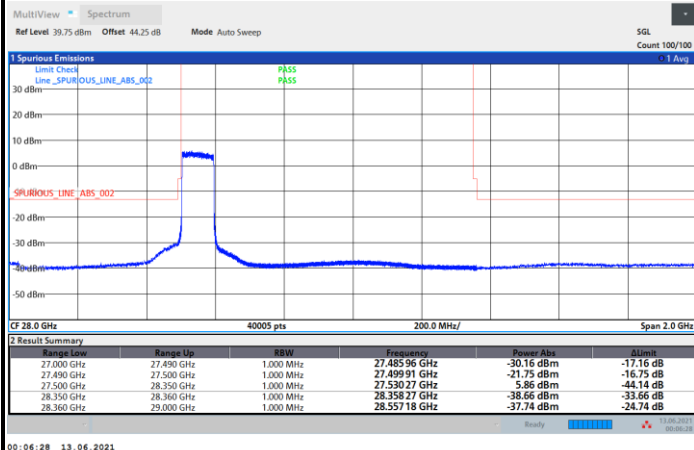




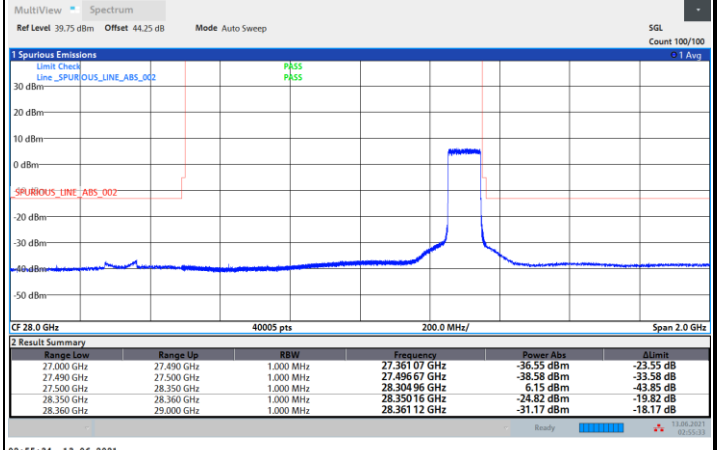
DFT-s-OFDM Module A

NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB

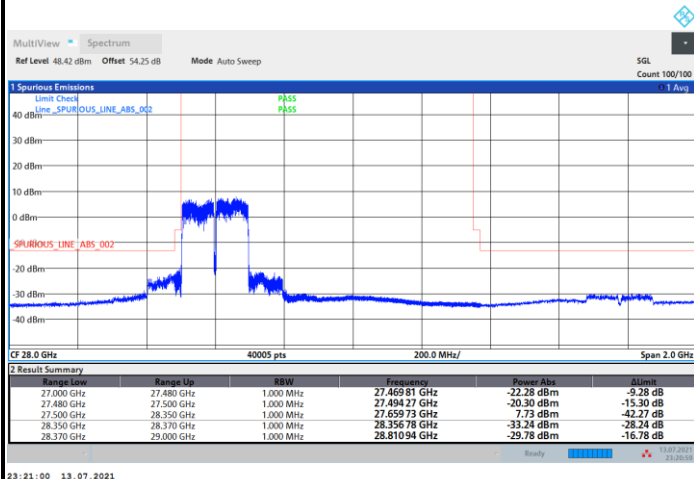


Highest Band Edge / Full RB

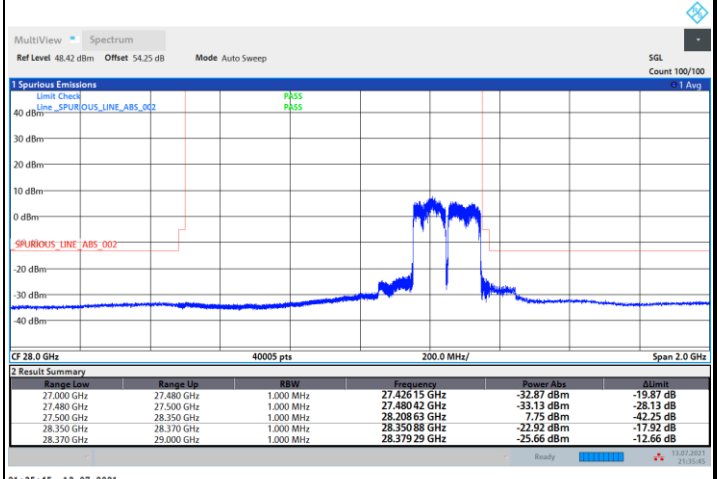


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

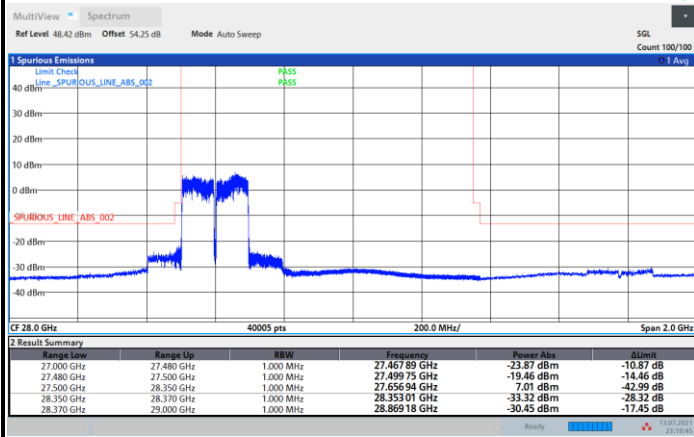




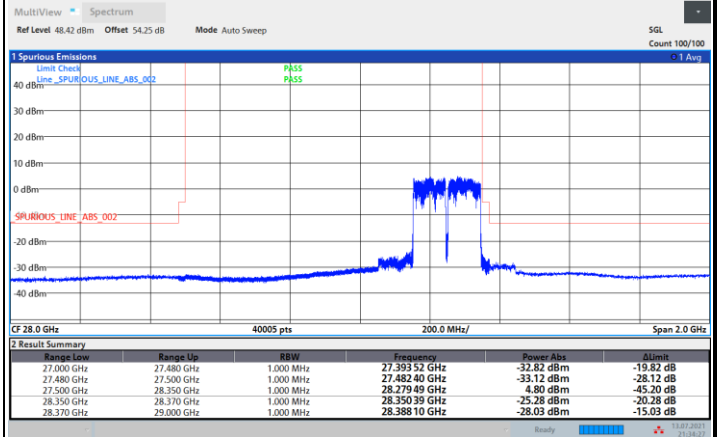
DFT-s-OFDM Module A

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB

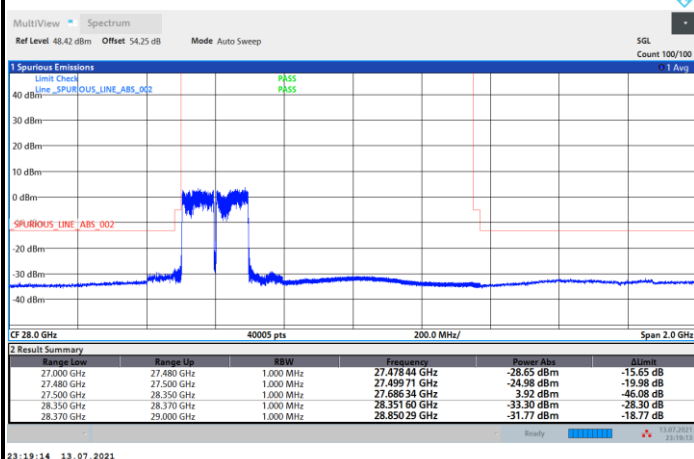


Highest Band Edge / Full RB

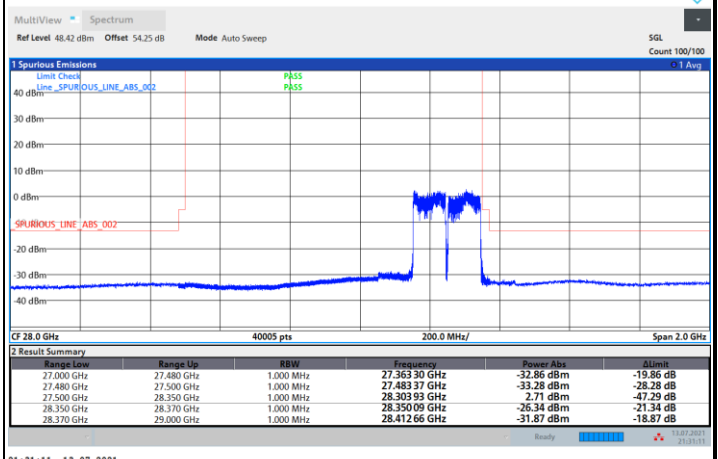


NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

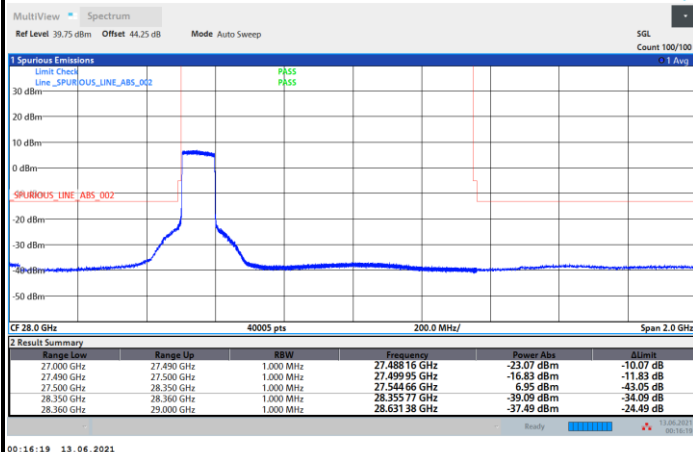




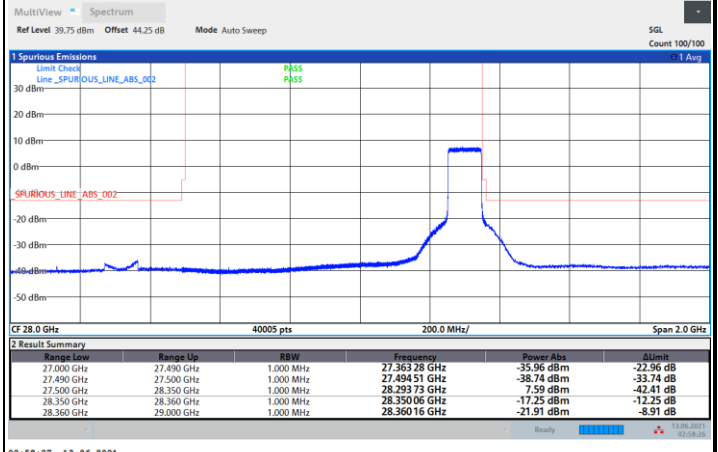
CP-OFDM Module A

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

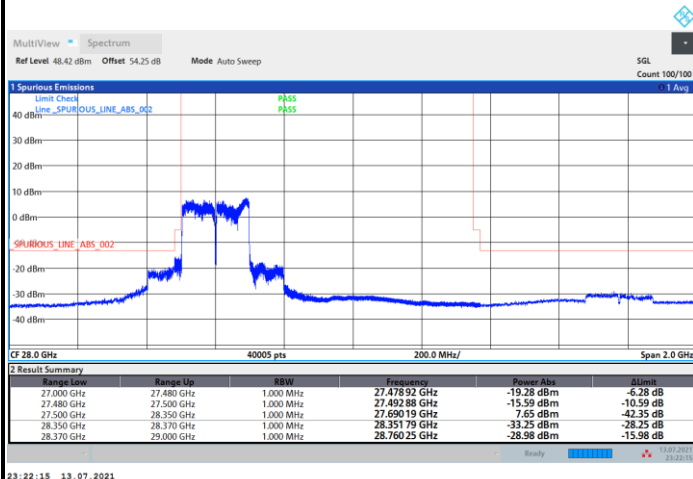


Highest Band Edge / Full RB

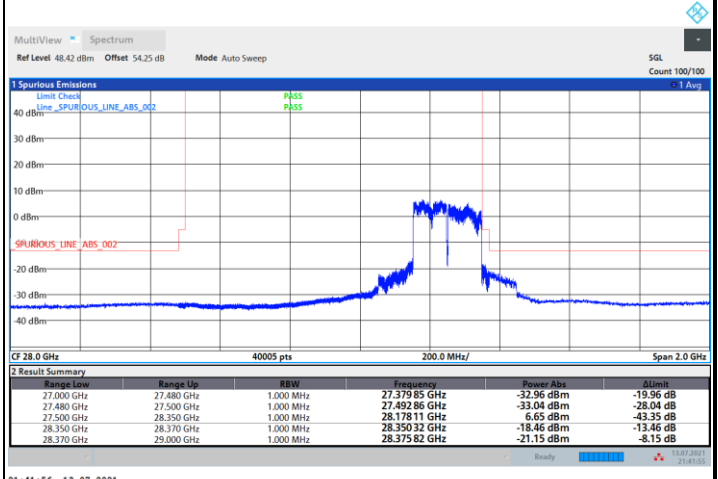


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





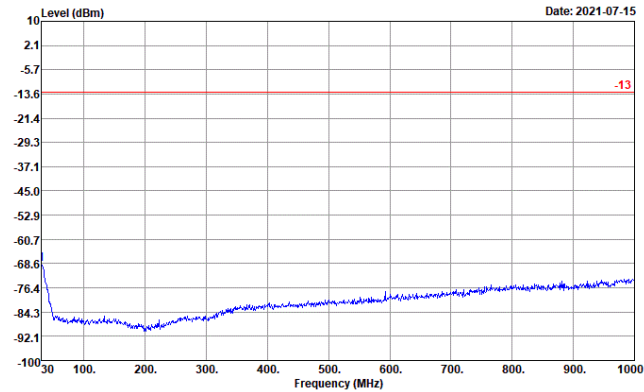
Spurious Emission

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

Only the noise floor is reported.

NR Band n261 (30MHz-1GHz)

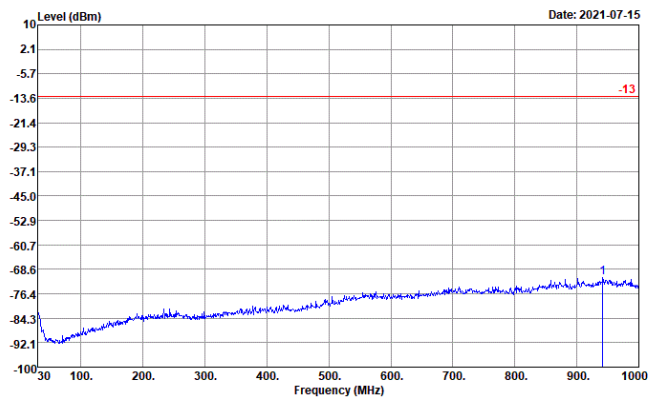
Horizontal



Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 HORIZONTAL
Project : 0D2942-04
: n261 MA

	Freq	Level	Over	Limit	Read
	MHz	dBm	Limit	Line	Level
1	30.00	-68.61	-55.61	-13.00	-80.32

Vertical



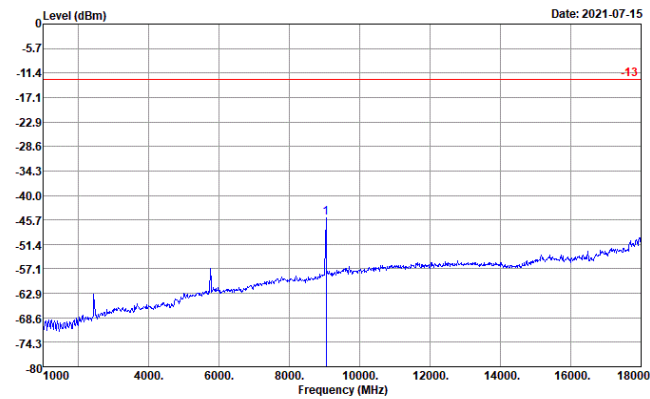
Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 VERTICAL
Project : 0D2942-04
: n261 MA

	Freq	Level	Over	Limit	Read
	MHz	dBm	Limit	Line	Level
1	941.80	-71.28	-58.28	-13.00	-80.94



NR Band n261 (1GHz-18GHz)

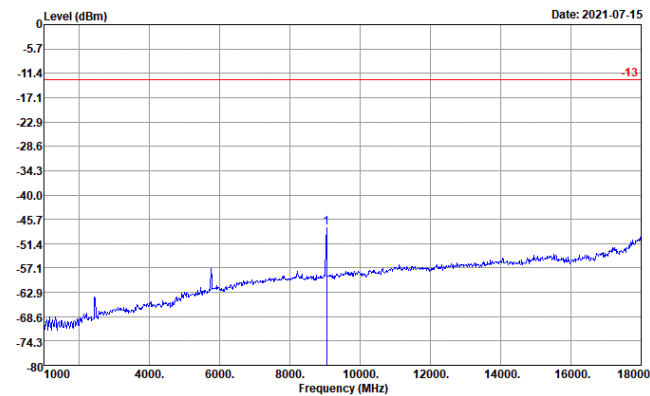
Horizontal



Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 HORIZONTAL
Project : OD2942-04
: n261 MA

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	9041.00	-45.23	-32.23	-13.00	-71.15

Vertical



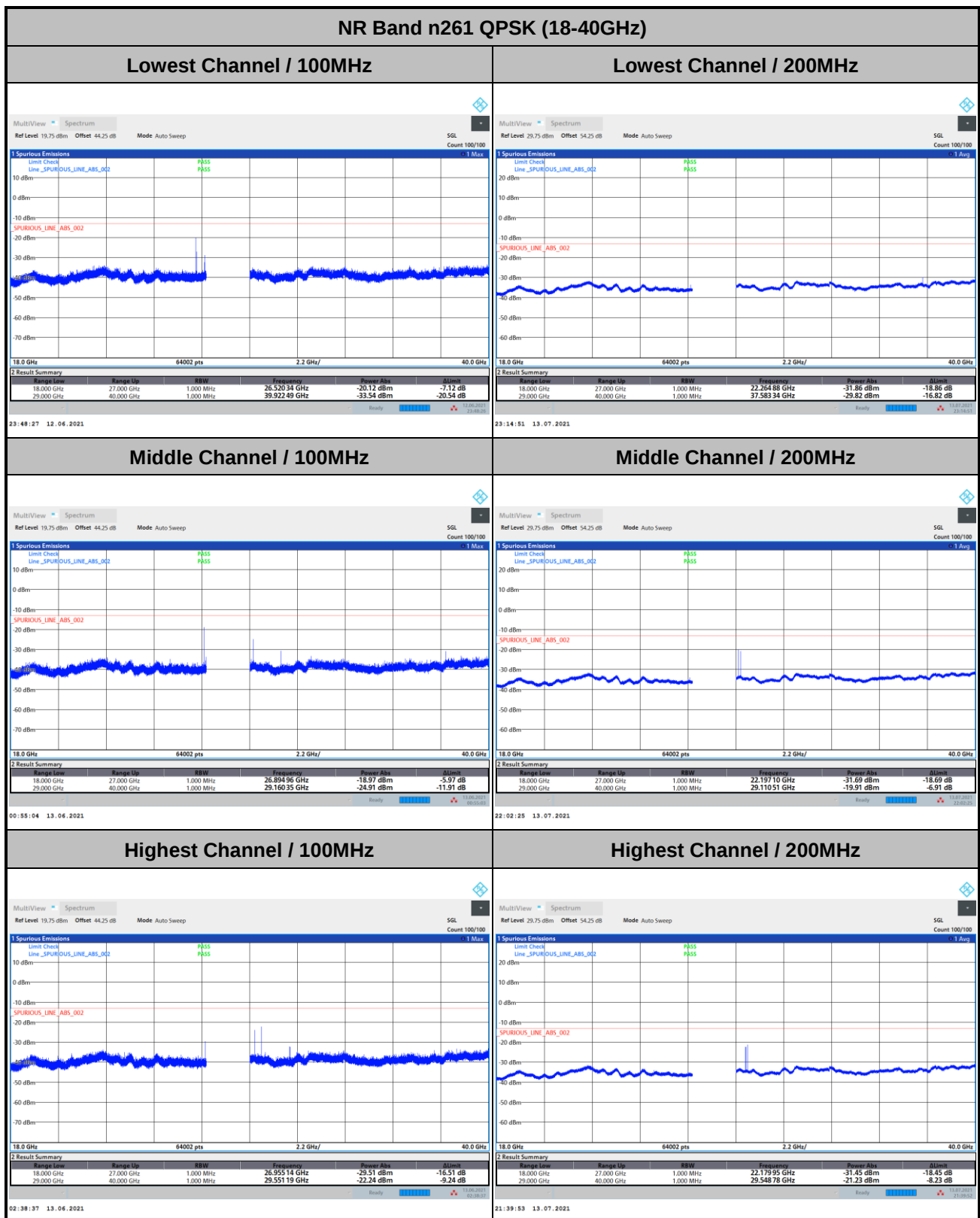
Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 VERTICAL
Project : OD2942-04
: n261 MA

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	9041.00	-47.62	-34.62	-13.00	-72.86



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

DFT-s-OFDM Module A



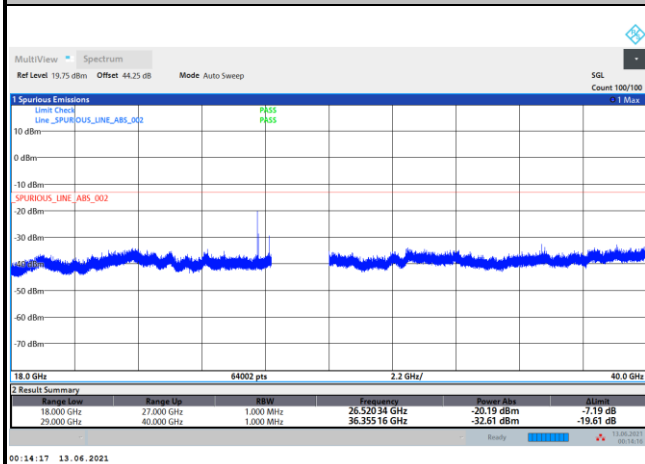
Remark: In band and out of band frequencies that has reported in previous results are omitted.



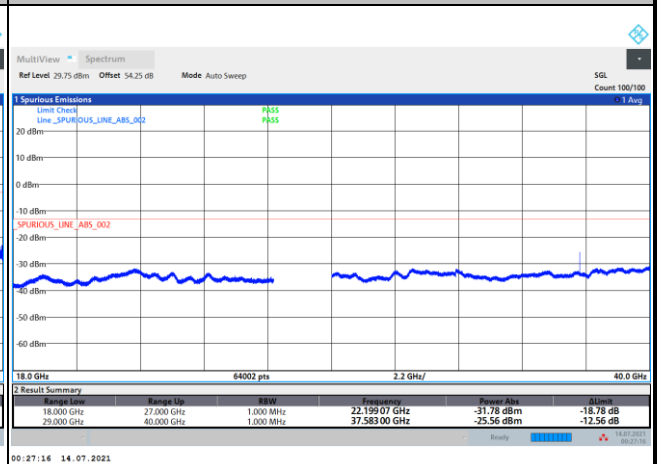
CP-OFDM Module A

NR Band n261 QPSK (18-40GHz)

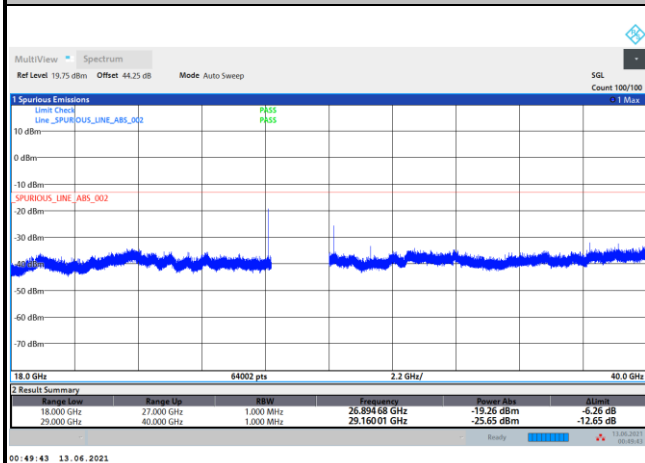
Lowest Channel / 100MHz



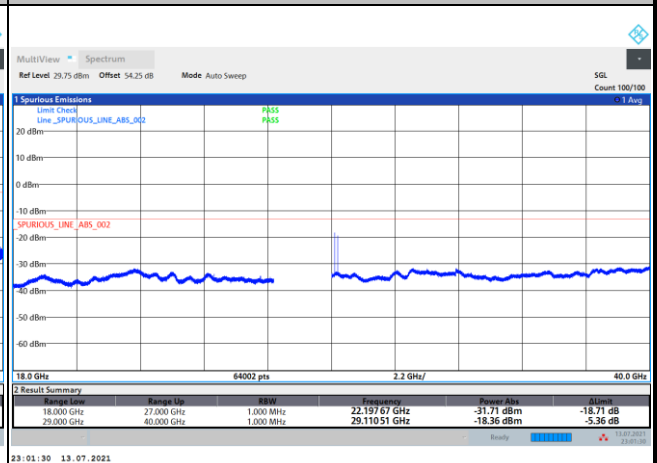
Lowest Channel / 200MHz



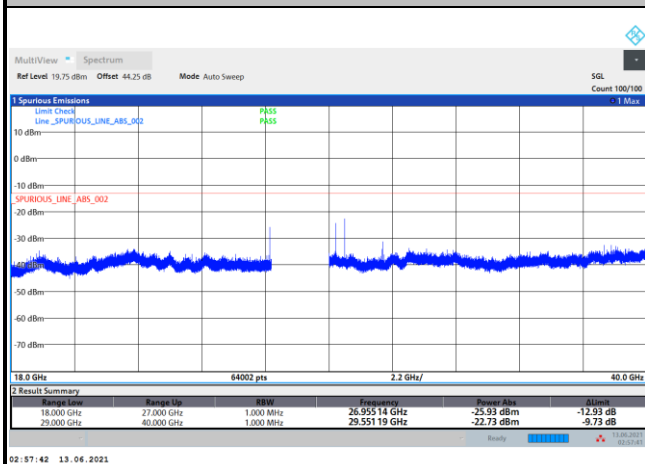
Middle Channel / 100MHz



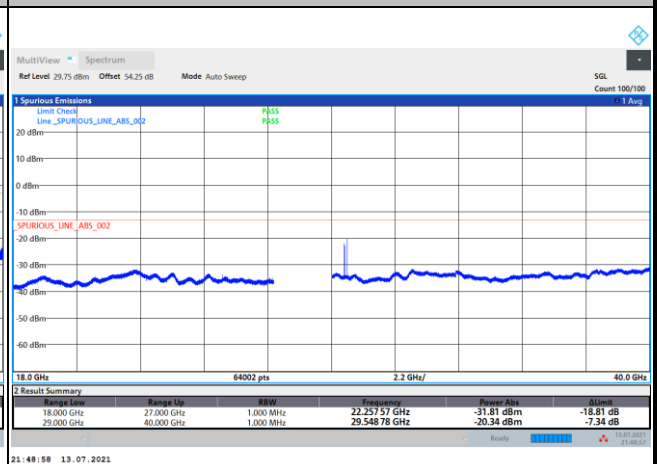
Middle Channel / 200MHz



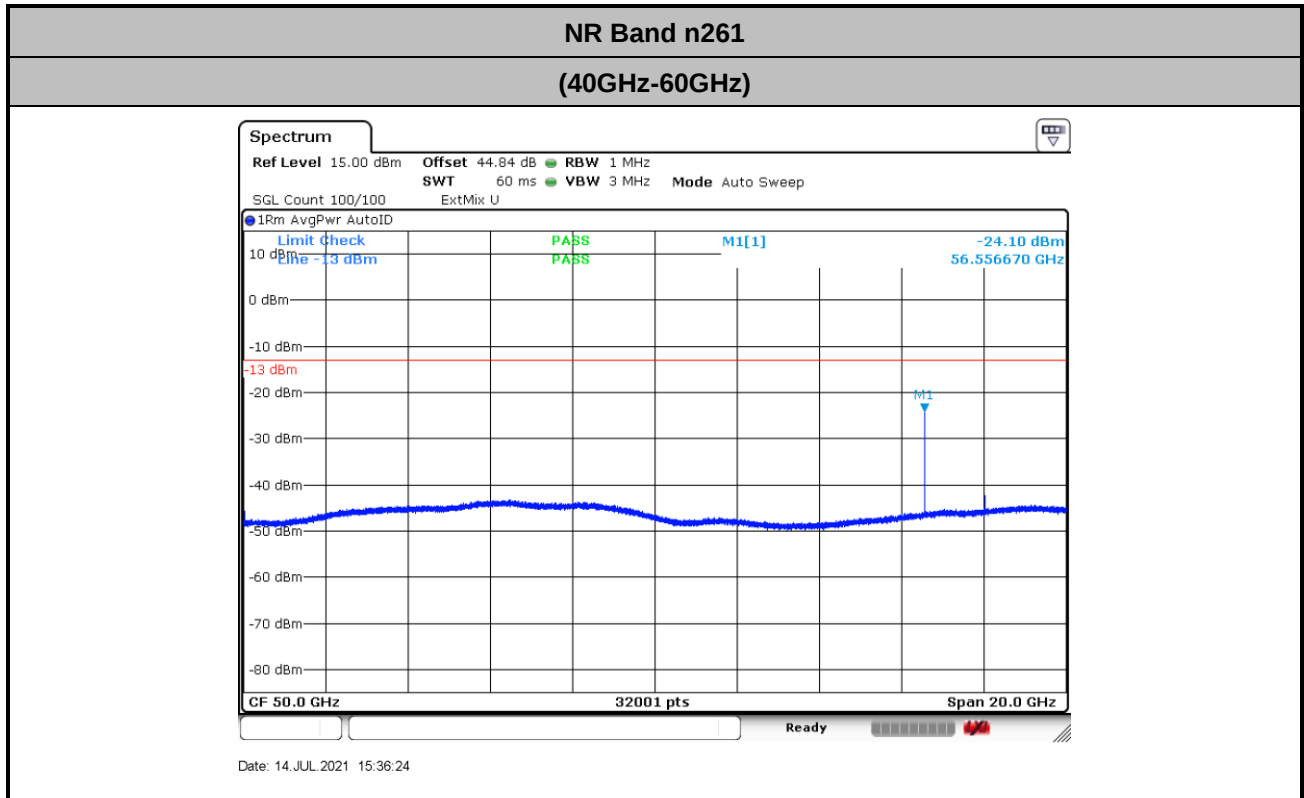
Highest Channel / 100MHz



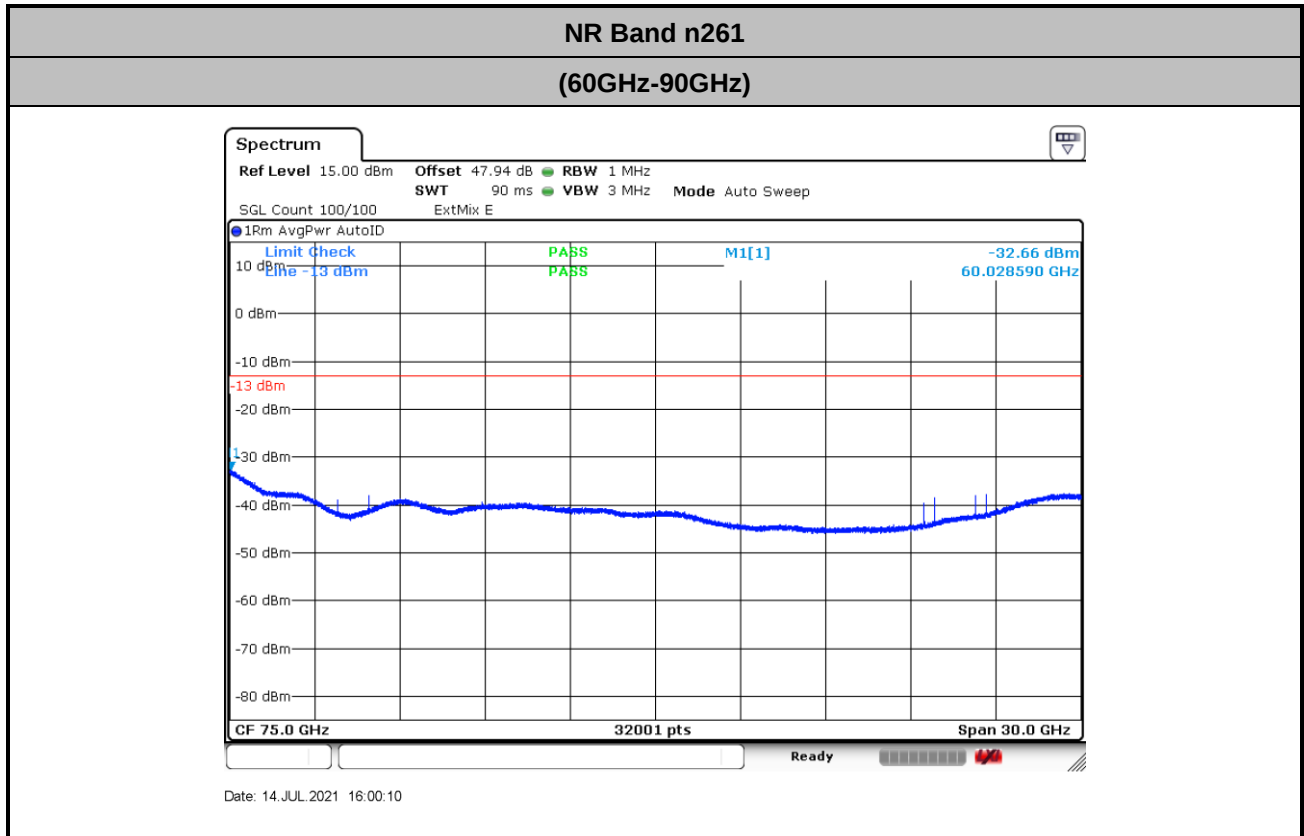
Highest Channel / 200MHz



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



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

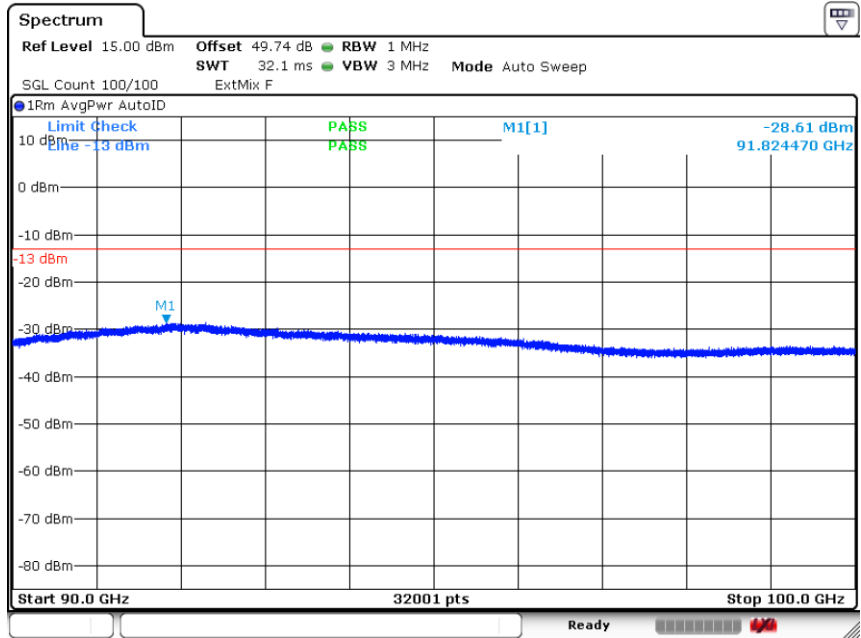


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94 \text{ (dB)} \end{aligned}$$



NR Band n261

(90GHz-100GHz)



Date: 14 JUL 2021 16:03:12

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 48.8 + 0.34 + 107 + 20\log(1) - 104.8 = 51.34 \text{ (dB)} \end{aligned}$$

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	27.925006	6.000	0.215	Pass
40	Normal Voltage	27.925006	6.000	0.215	
30	Normal Voltage	27.925007	5.000	0.179	
20(Ref.)	Normal Voltage	27.925012	0.000	0.000	
10	Normal Voltage	27.925035	-23.000	0.824	
0	Normal Voltage	27.925017	-5.000	0.179	
-10	Normal Voltage	27.925035	-23.000	0.824	
-20	Normal Voltage	27.925016	-4.000	0.143	
-30	Normal Voltage	27.925011	1.000	0.036	
20	Maximum Voltage	27.925012	0.000	0.000	
20	Normal Voltage	27.925006	6.000	0.215	
20	Battery End Point	27.925009	3.000	0.107	

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

NR Band n261 Module B Beam H

Occupied Bandwidth

Mode	DFT-s-OFDM Module B NR Band n261 : 99%OBW(MHz)					
BW	100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	91.62	91.71	91.59	190.53	190.44	190.67
Middle CH	91.88	91.82	91.66	190.46	189.99	190.45
Highest CH	91.95	91.80	91.67	190.57	190.60	190.24

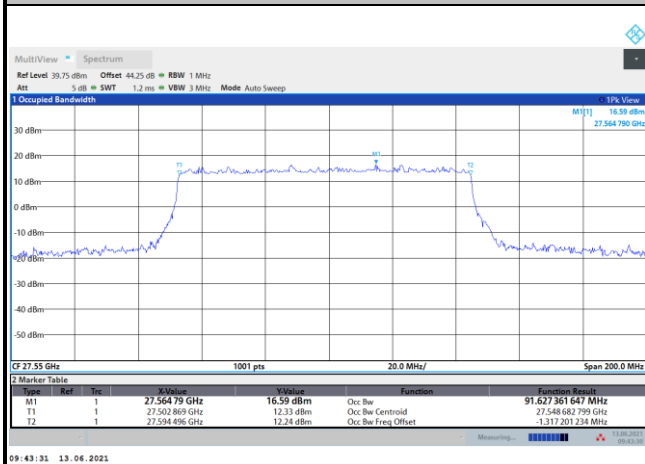
Mode	CP-OFDM Module B NR Band n261 : 99%OBW(MHz)	
BW	100MHz	200MHz
Mod.	QPSK	QPSK
Lowest CH	94.75	194.30
Middle CH	95.05	190.24
Highest CH	94.59	194.36



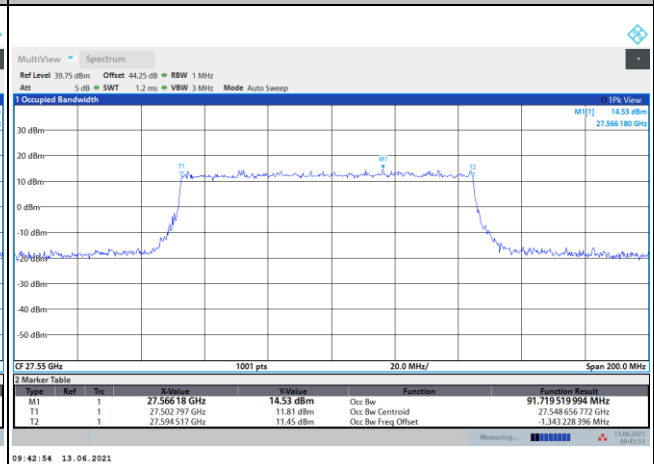
DFT-s-OFDM Module B

NR Band n261

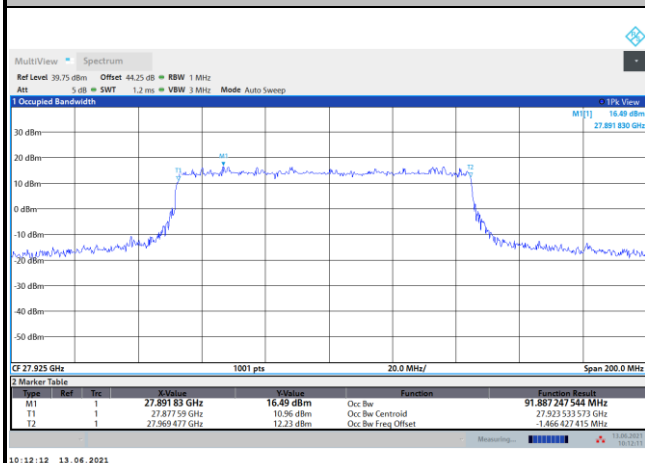
Lowest Channel / 100MHz / QPSK



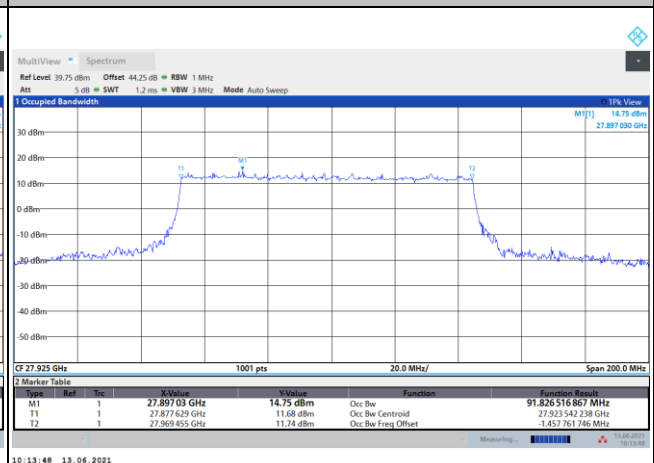
Lowest Channel / 100MHz / 16QAM



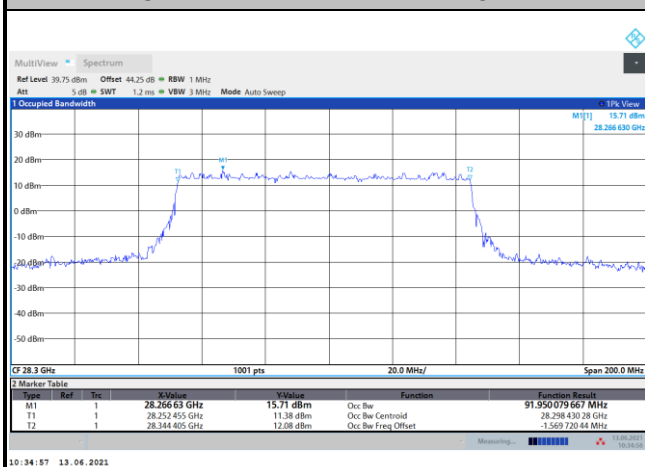
Middle Channel / 100MHz / QPSK



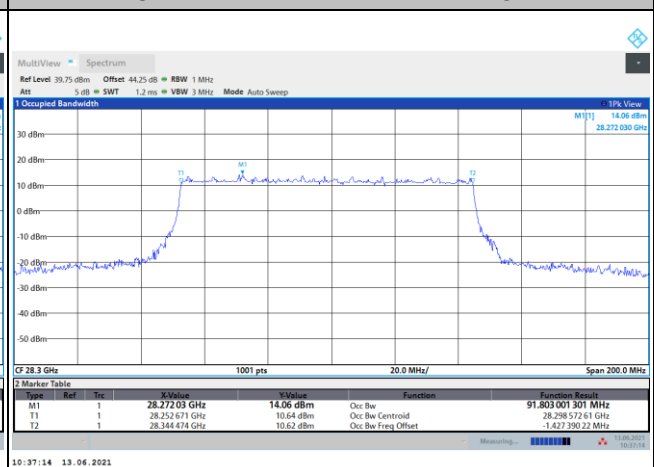
Middle Channel / 100MHz / 16QAM



Highest Channel / 100MHz / QPSK



Highest Channel / 100MHz / 16QAM

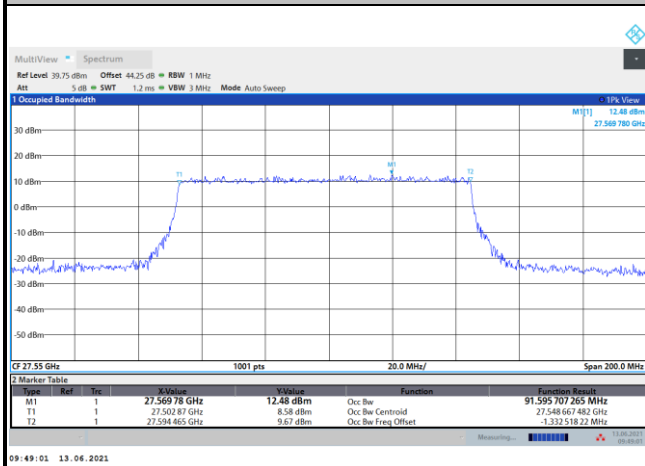




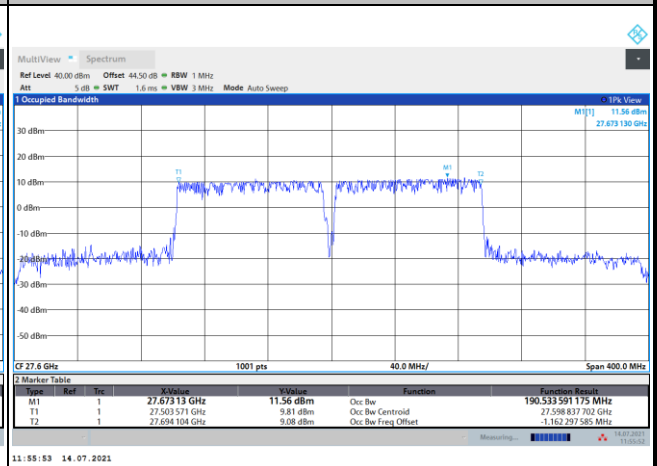
DFT-s-OFDM Module B

NR Band n261

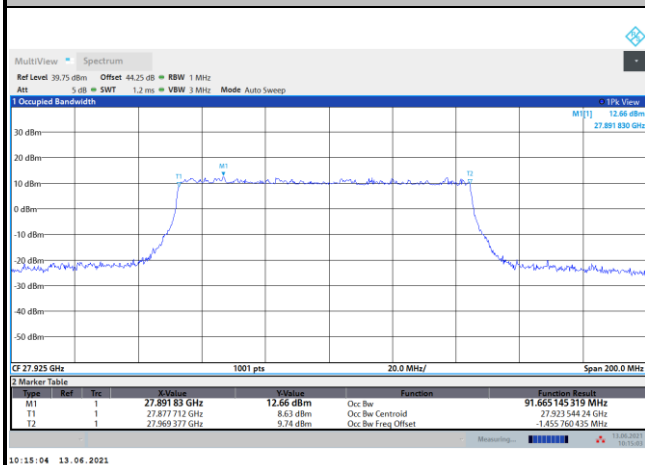
Lowest Channel / 100MHz / 64QAM



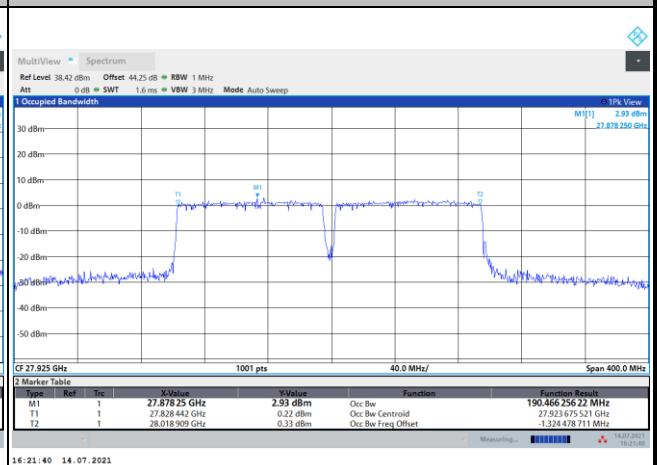
Lowest Channel / 200MHz / QPSK



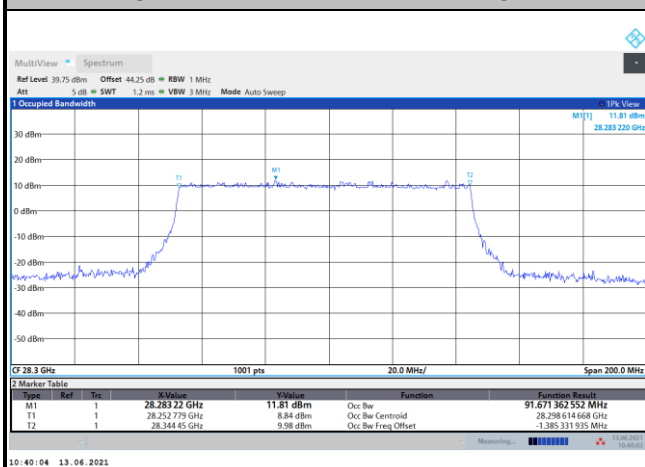
Middle Channel / 100MHz / 64QAM



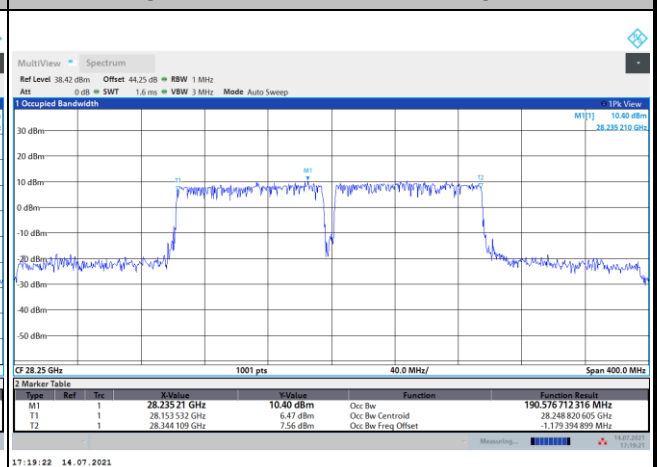
Middle Channel / 200MHz / QPSK



Highest Channel / 100MHz / 64QAM



Highest Channel / 200MHz / QPSK

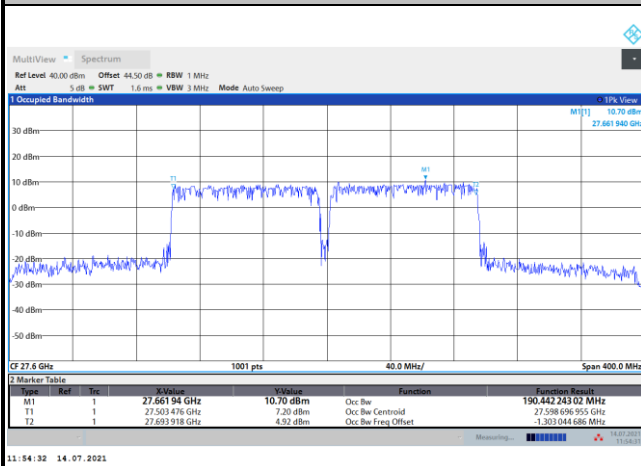




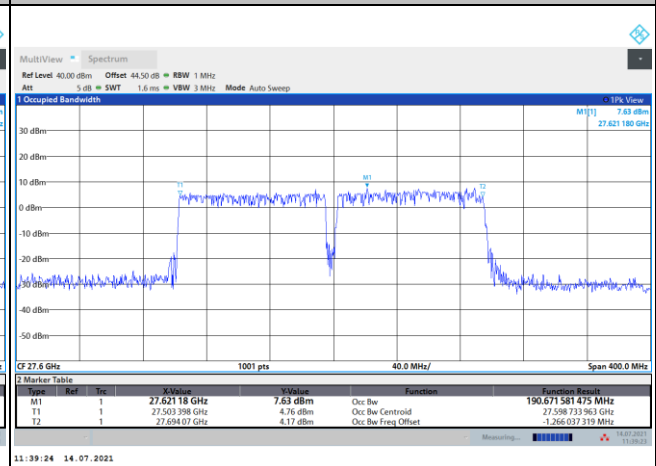
DFT-s-OFDM Module B

NR Band n261

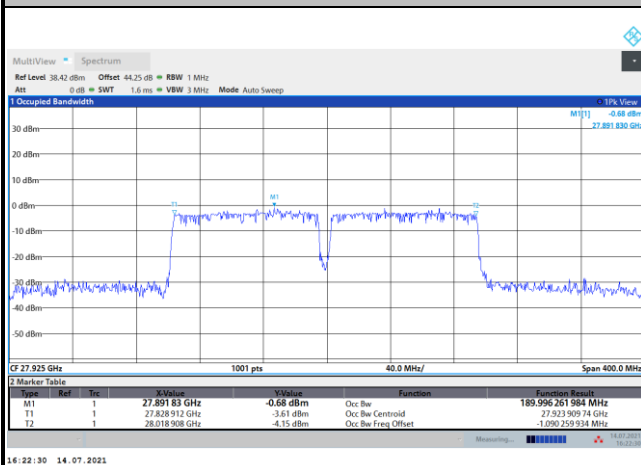
Lowest Channel / 200MHz / 16QAM



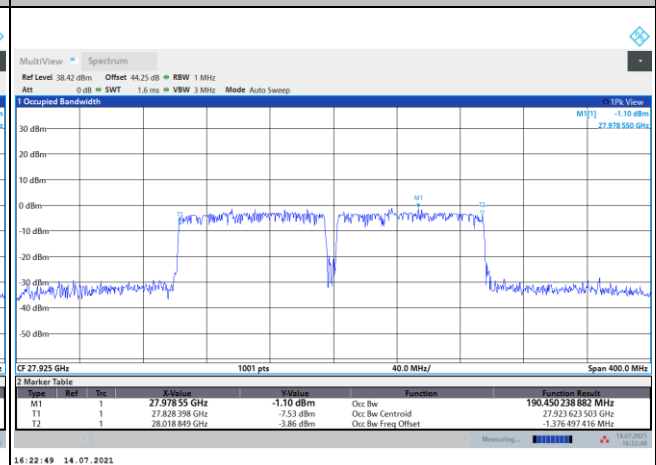
Lowest Channel / 200MHz / 64QAM



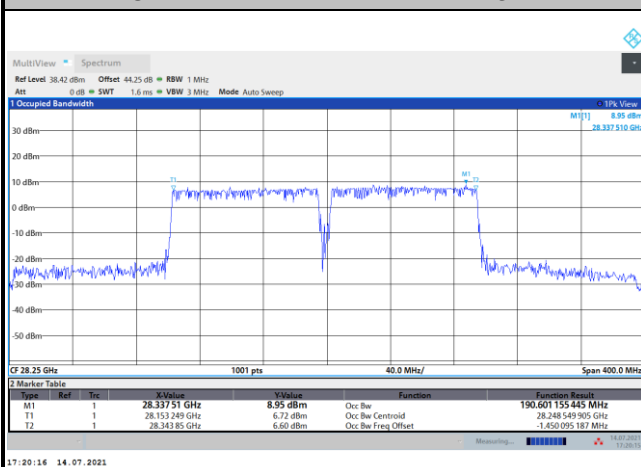
Middle Channel / 200MHz / 16QAM



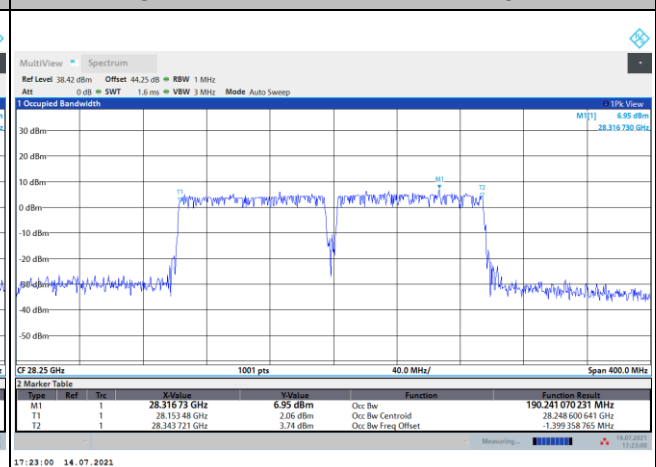
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM

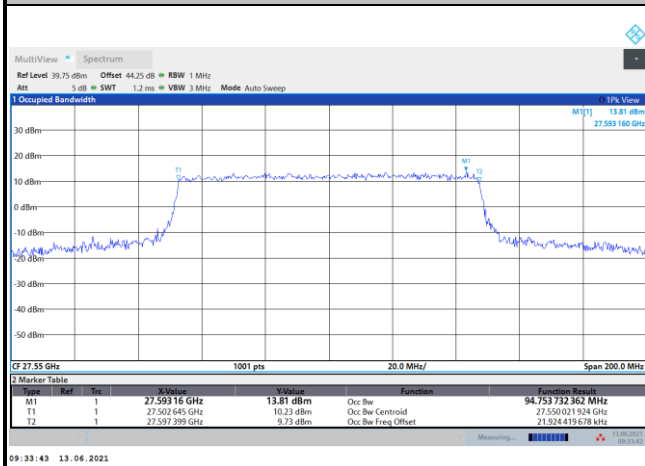




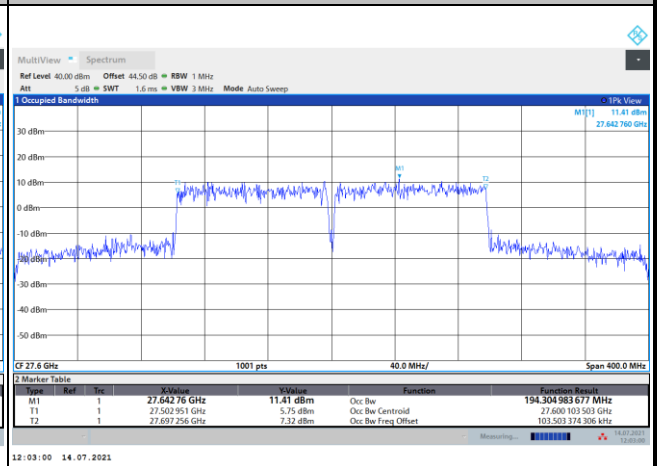
CP-OFDM Module B

NR Band n261

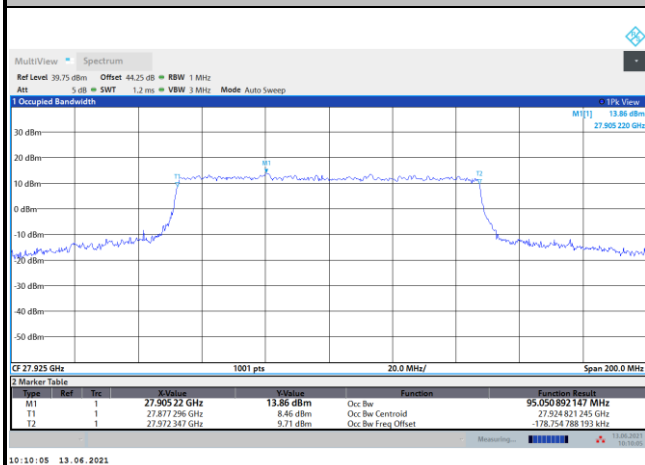
Lowest Channel / 100MHz / QPSK



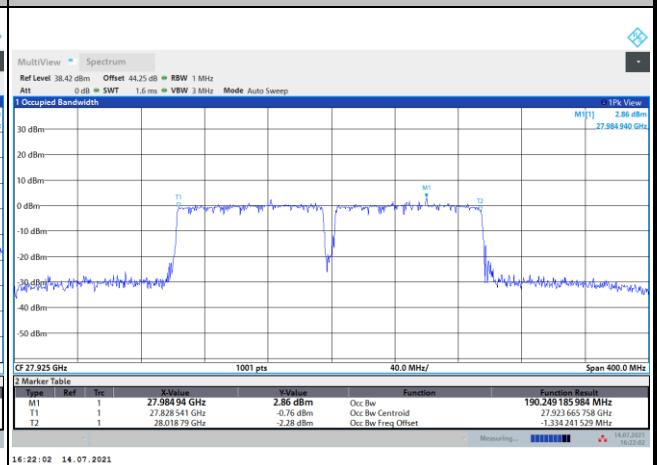
Lowest Channel / 200MHz / QPSK



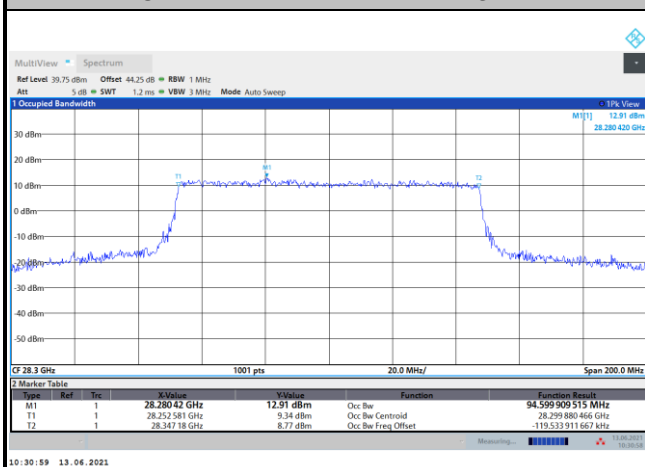
Middle Channel / 100MHz / QPSK



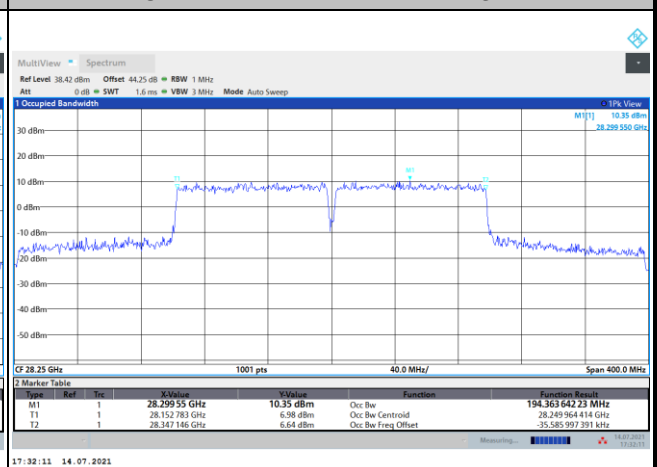
Middle Channel / 200MHz / QPSK



Highest Channel / 100MHz / QPSK



Highest Channel / 200MHz / QPSK



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module B NR Band n261 : BE (dBm) 1 RB					
BW			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-6.70	-11.02	-13.16	-11.80	-13.32	-16.98
	>10%OB	≤-13	-26.82	-28.45	-26.68	-13.34	-16.71	-19.58
High CH	0~10%OB	≤-5	-11.97	-13.97	-13.08	-11.64	-14.10	-15.51
	>10%OB	≤-13	-34.60	-35.81	-36.15	-15.09	-19.91	-23.77
Result			Compliance					

Mode			CP-OFDM Module B NR Band n261 : BE (dBm) 1 RB		
BW			100MHz		200MHz
Limit (dBm)			QPSK		QPSK
Low CH	0~10%OB	≤-5	-10.19		-10.60
	>10%OB	≤-13	-27.62		-13.72
High CH	0~10%OB	≤-5	-12.61		-15.50
	>10%OB	≤-13	-34.94		-15.27
Result			Compliance		

Mode			DFT-s-OFDM Module B NR Band n261 : BE (dBm) Full RB					
BW			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-19.38	-19.28	-22.32	-17.23	-20.39	-23.78
	>10%OB	≤-13	-24.83	-25.04	-30.83	-21.01	-24.85	-30.28
High CH	0~10%OB	≤-5	-23.48	-24.89	-28.34	-20.52	-25.80	-27.79
	>10%OB	≤-13	-27.55	-30.09	-33.40	-24.91	-28.99	-31.733
Result			Compliance					

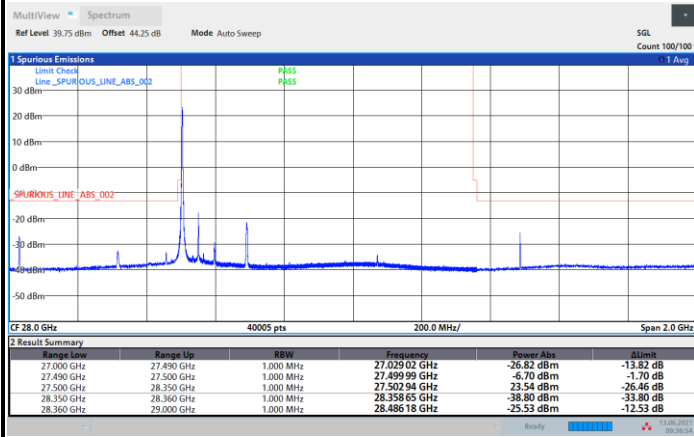
Mode			CP-OFDM Module B NR Band n261 : BE (dBm) Full RB		
BW			100MHz		200MHz
Limit (dBm)			QPSK		QPSK
Low CH	0~10%OB	≤-5	-18.41		-16.15
	>10%OB	≤-13	-23.14		-17.43
High CH	0~10%OB	≤-5	-21.02		-19.21
	>10%OB	≤-13	-26.73		-21.85
Result			Compliance		



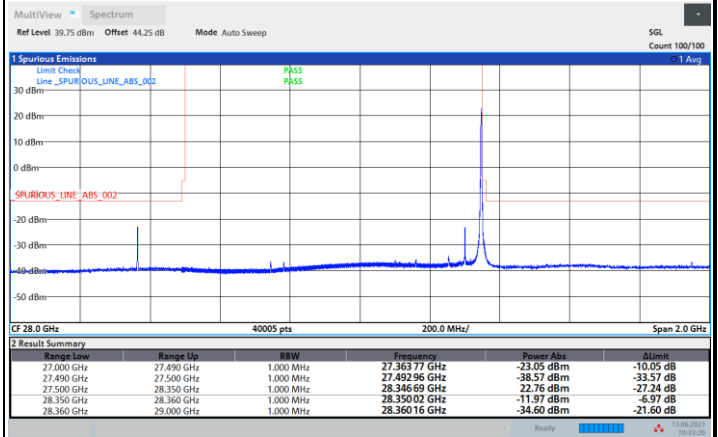
DFT-s-OFDM Module B

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB

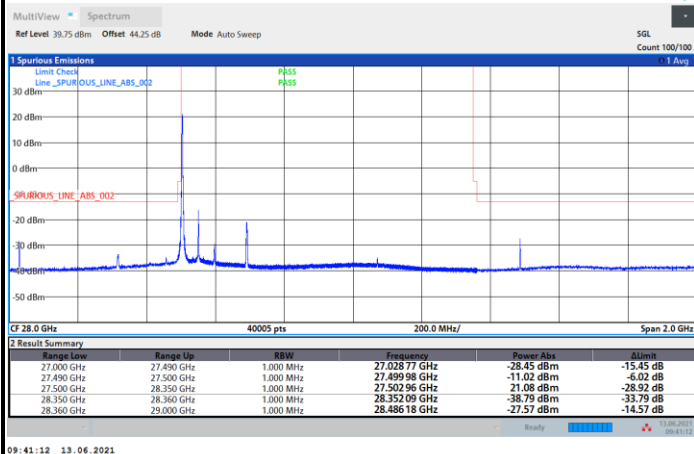


Highest Band Edge / 1 RB

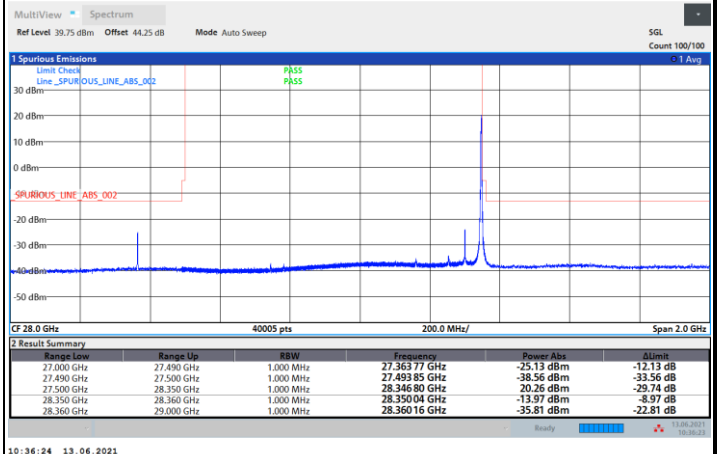


NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

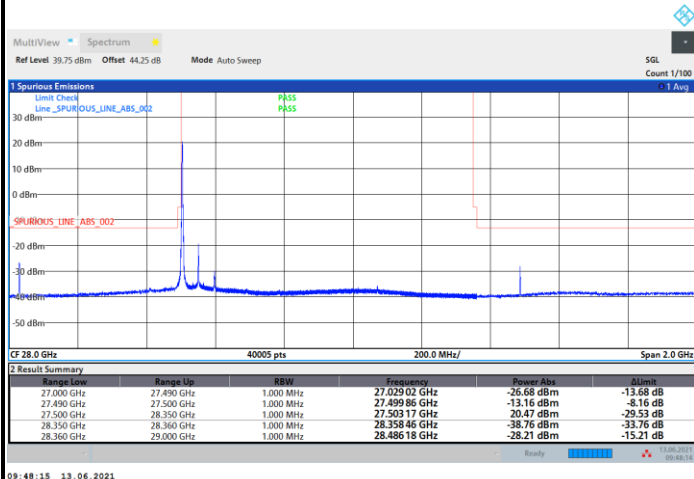




DFT-s-OFDM Module B

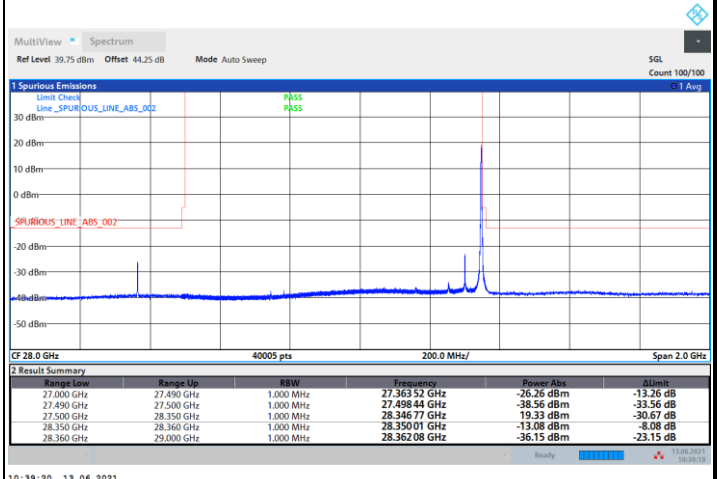
NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB



09:48:15 13.06.2021

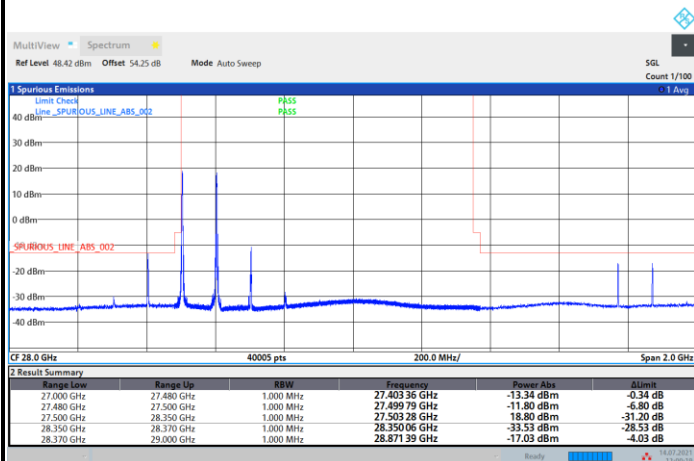
Highest Band Edge / 1 RB



10:39:20 13.06.2021

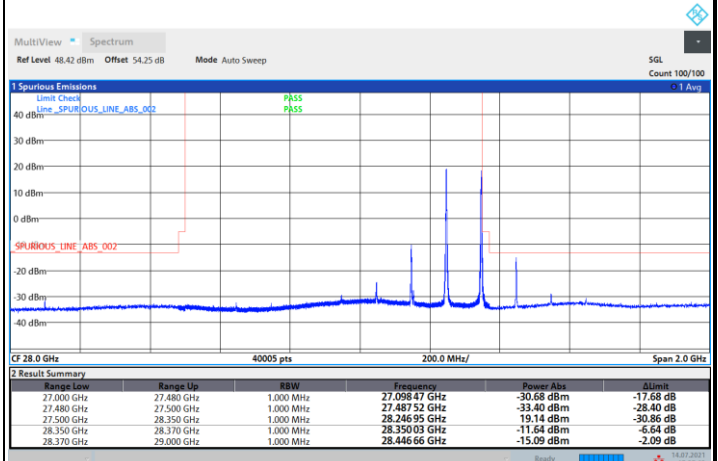
NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB



12:00:19 14.07.2021

Highest Band Edge / 1 RB



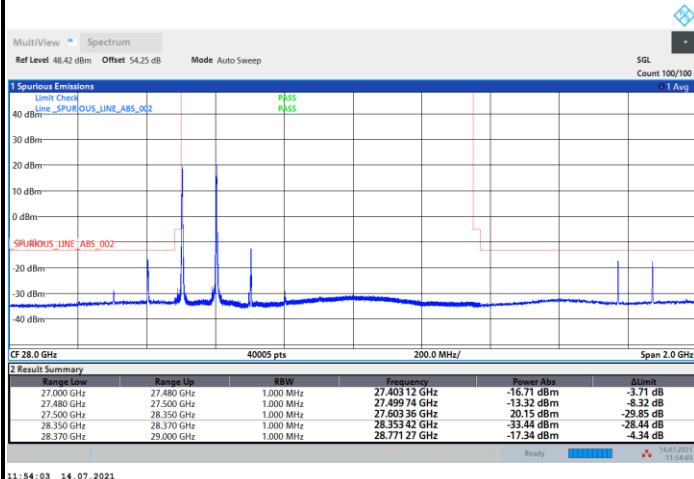
17:27:03 14.07.2021



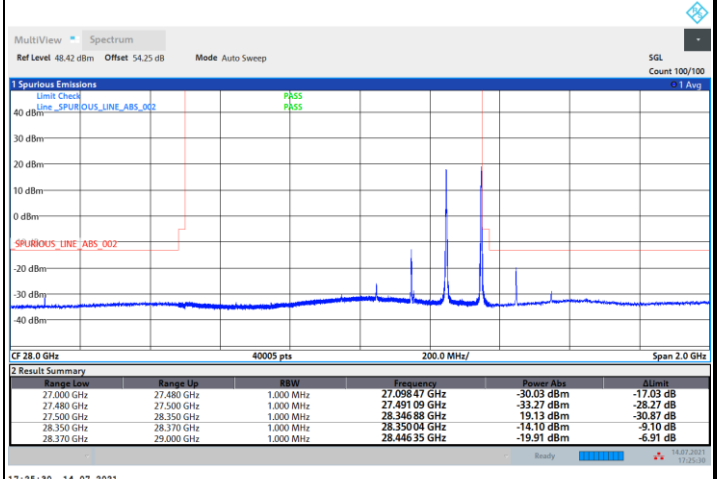
DFT-s-OFDM Module B

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / 1 RB

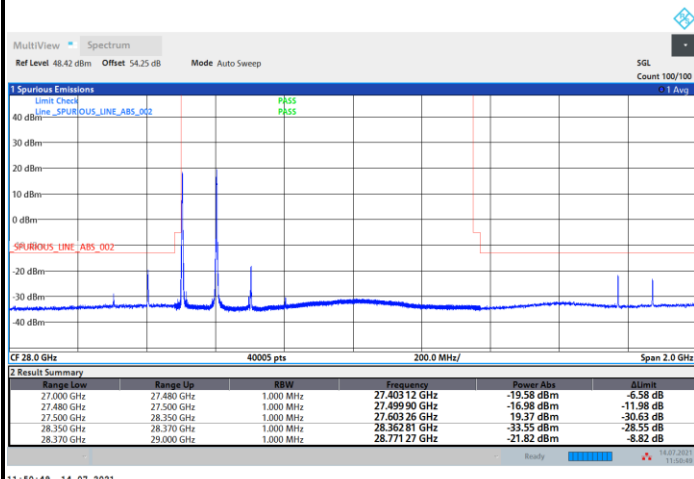


Highest Band Edge / 1 RB

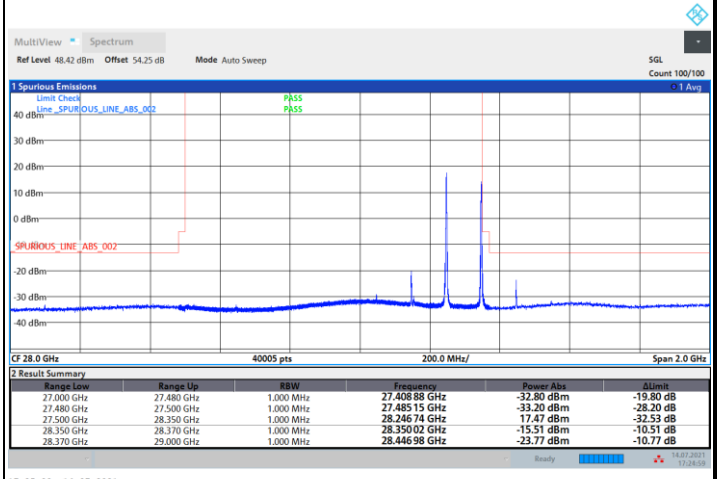


NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

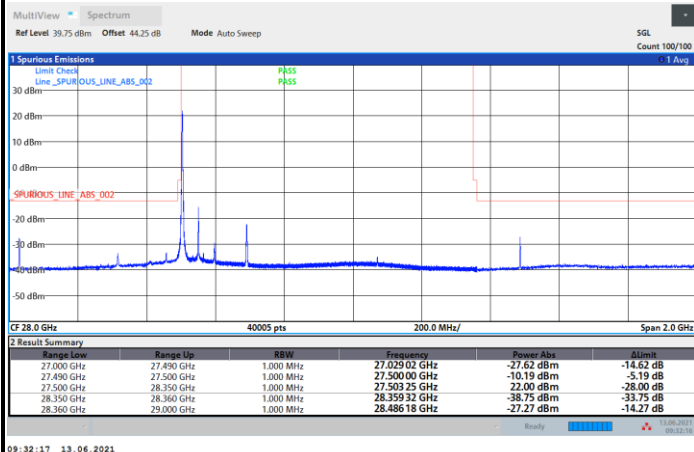




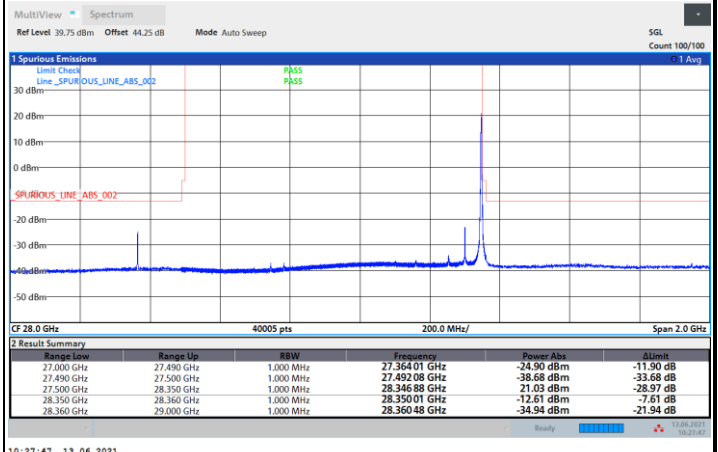
CP-OFDM Module B

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB

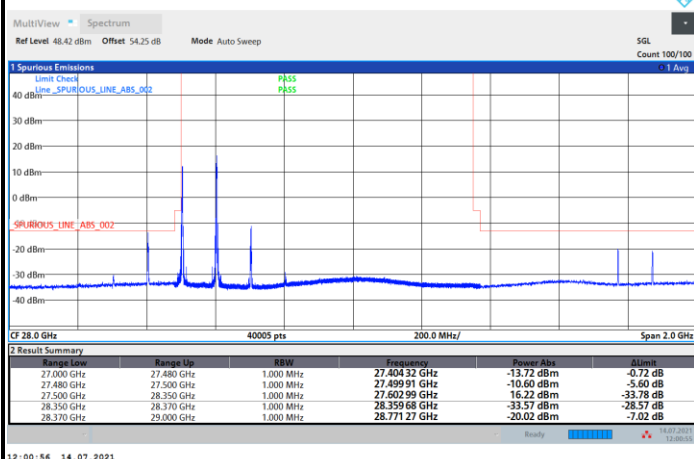


Highest Band Edge / 1 RB

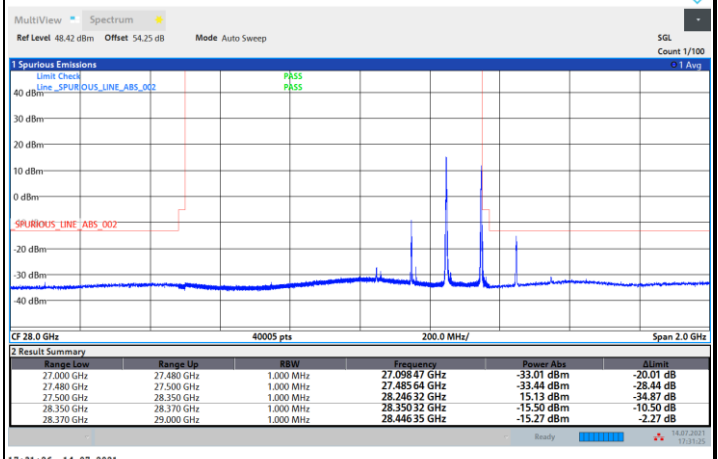


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

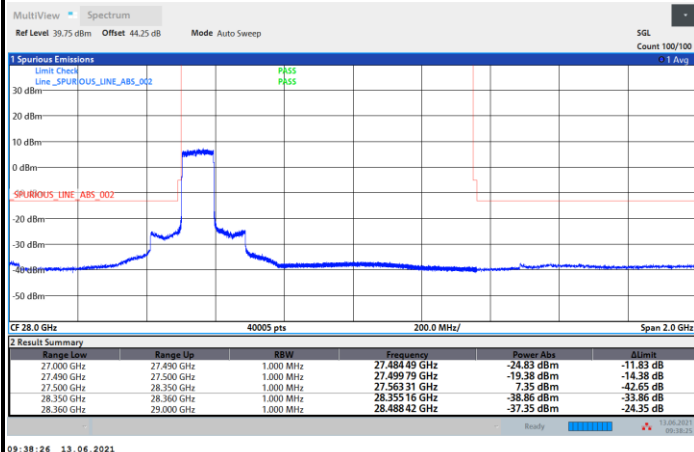




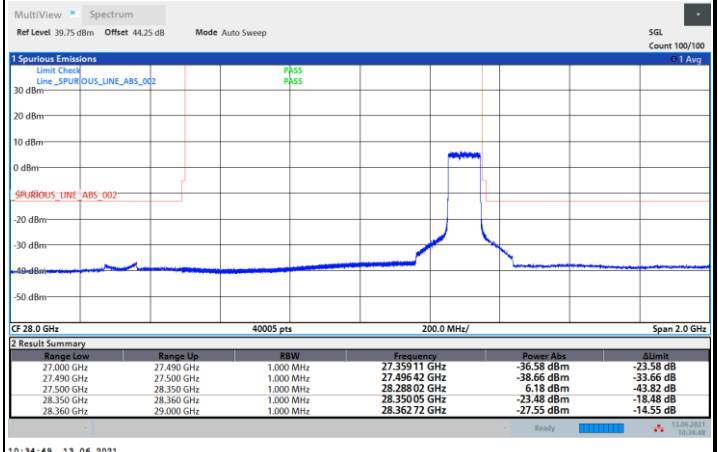
DFT-s-OFDM Module B

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

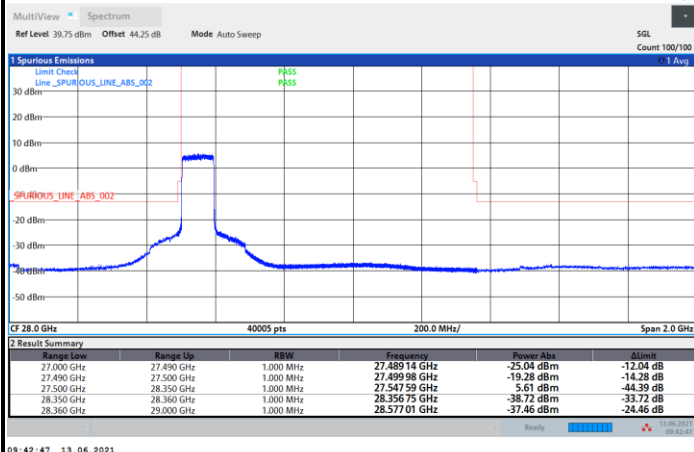


Highest Band Edge / Full RB

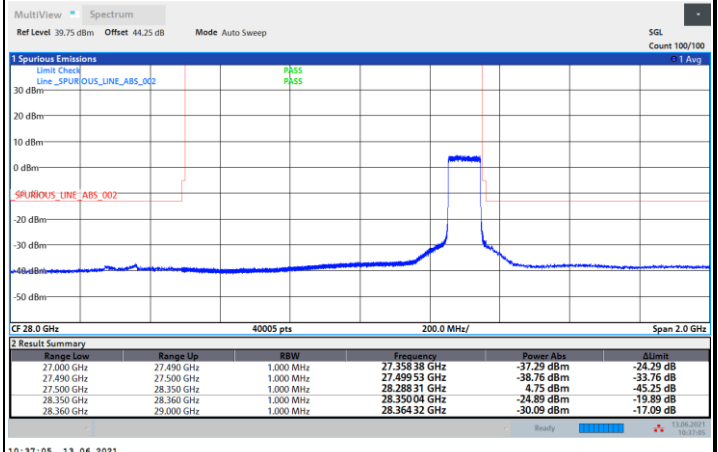


NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

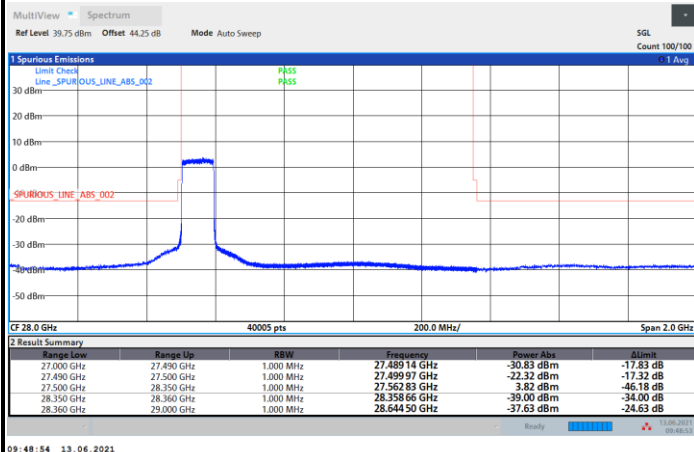




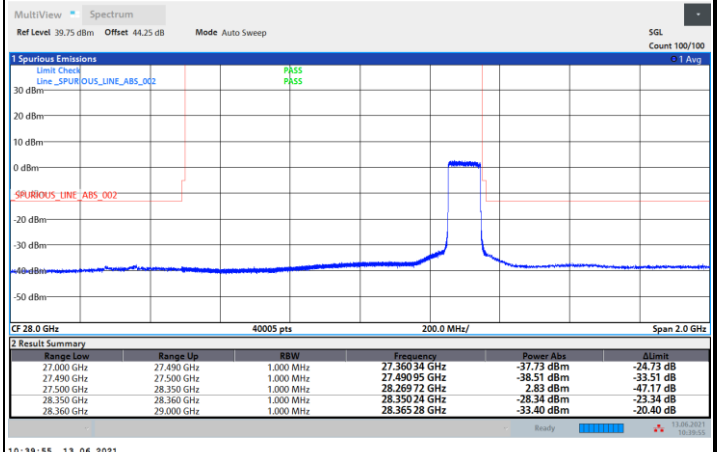
DFT-s-OFDM Module B

NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB

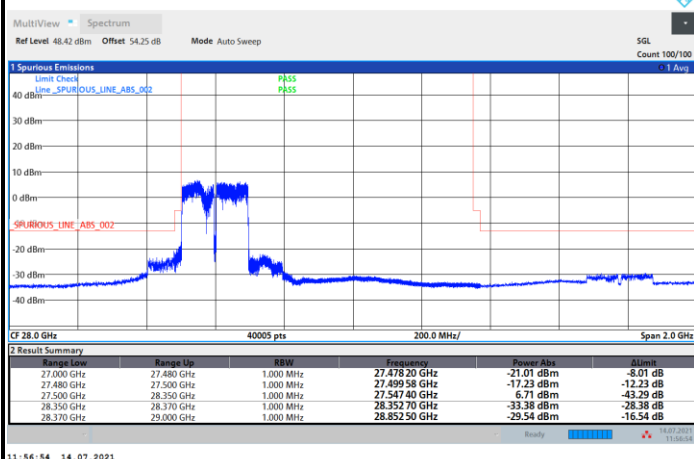


Highest Band Edge / Full RB

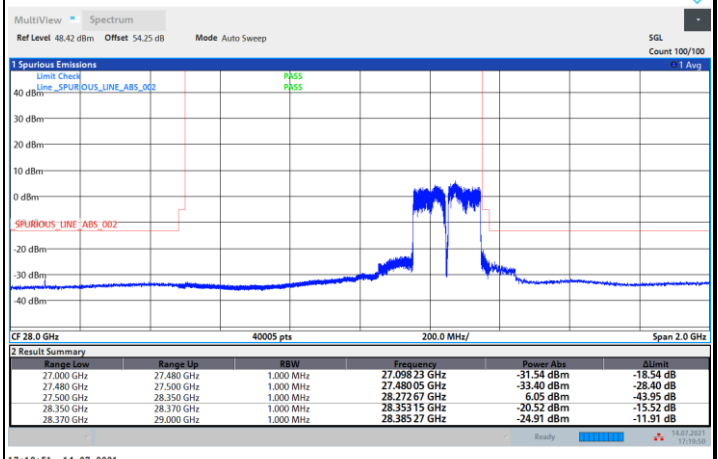


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

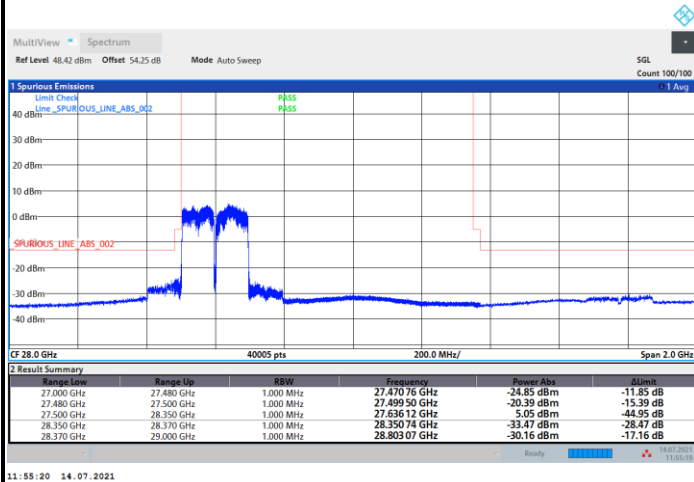




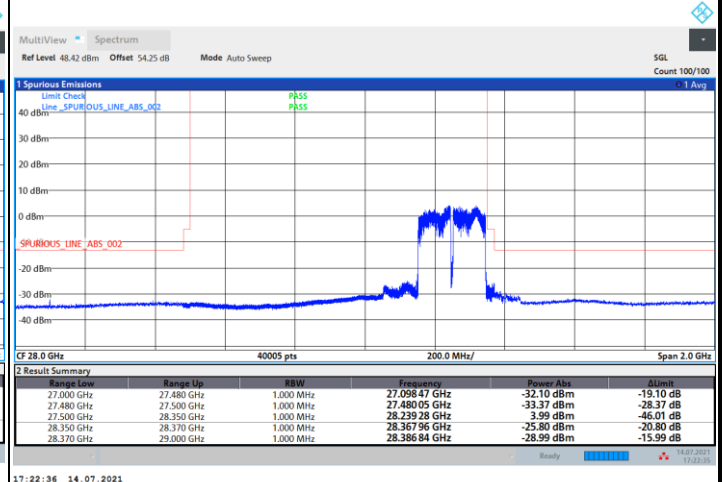
DFT-s-OFDM Module B

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB

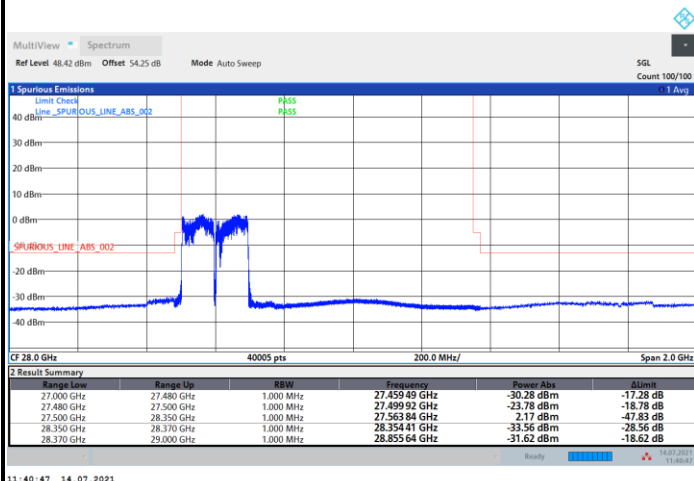


Highest Band Edge / Full RB

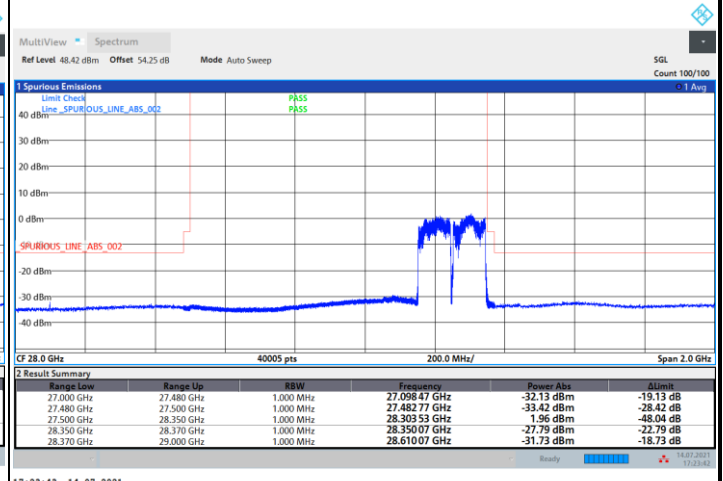


NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

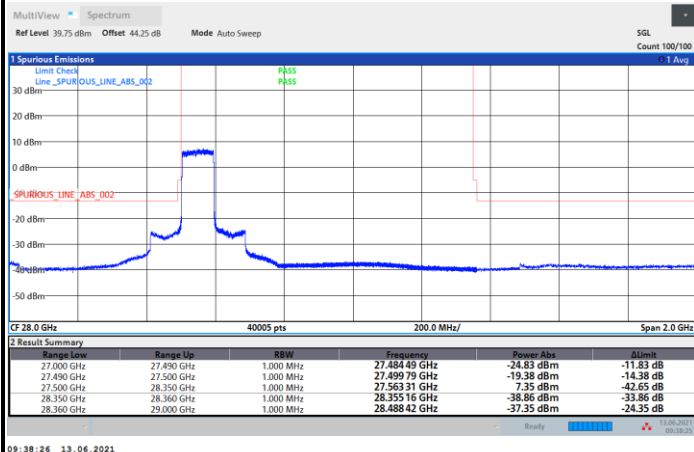




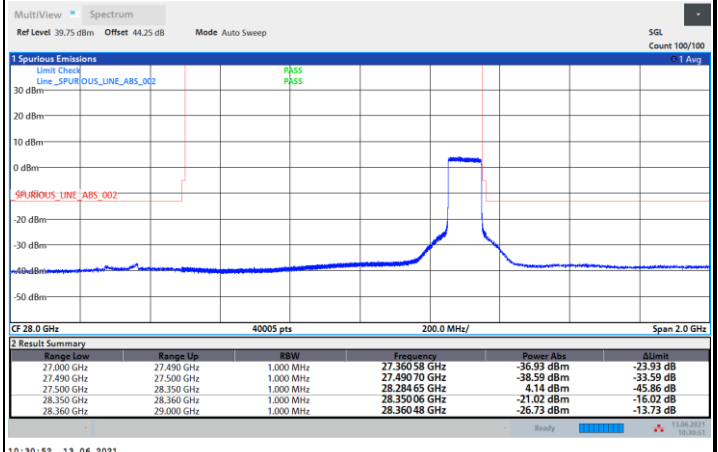
CP-OFDM Module B

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

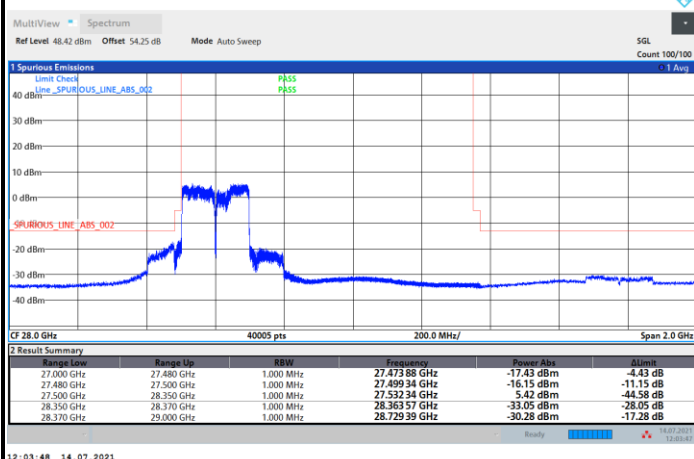


Highest Band Edge / Full RB

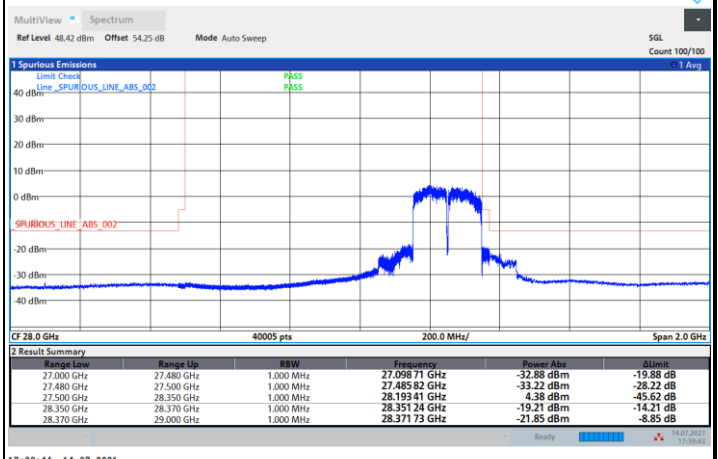


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





Spurious Emission