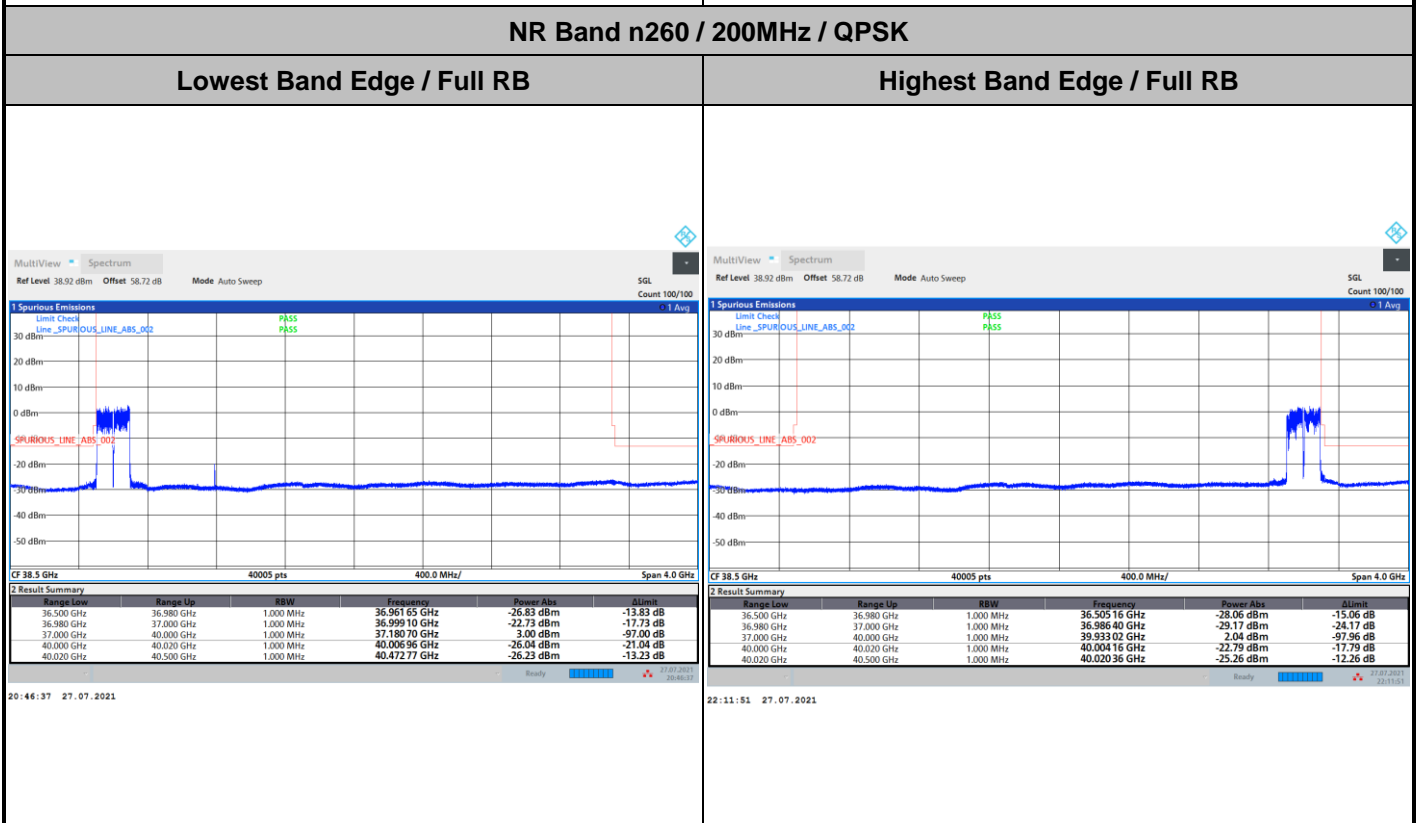
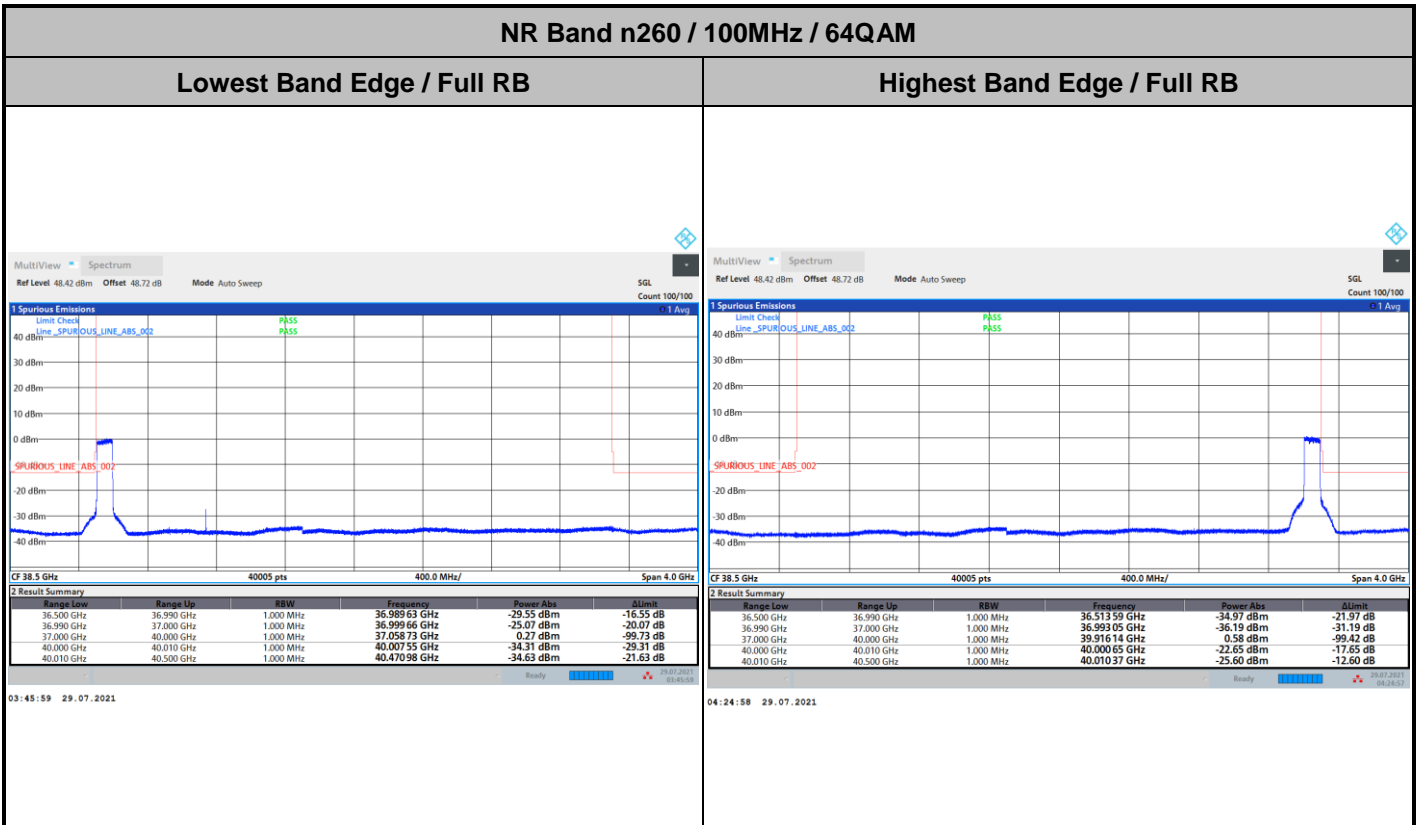




DFT-s-OFDM Module B

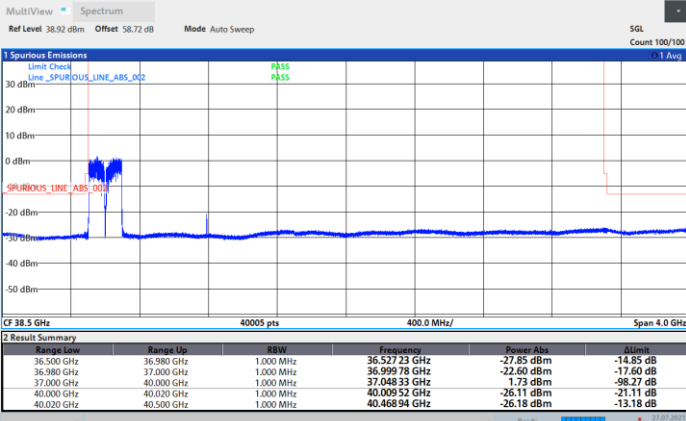




DFT-s-OFDM Module B

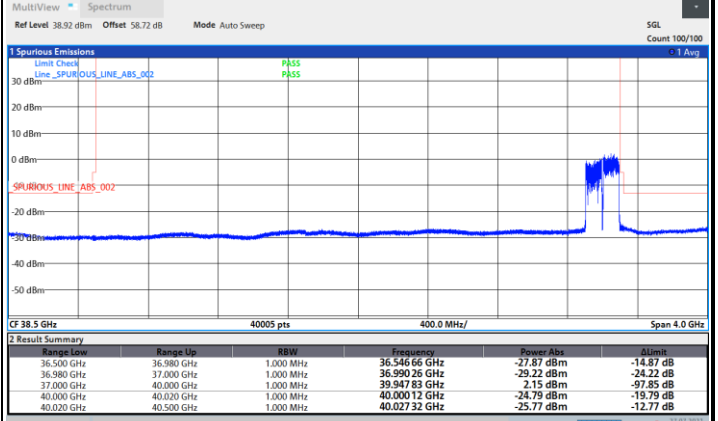
NR Band n260 / 200MHz / 16QAM

Lowest Band Edge / Full RB



20:45:45 27.07.2021

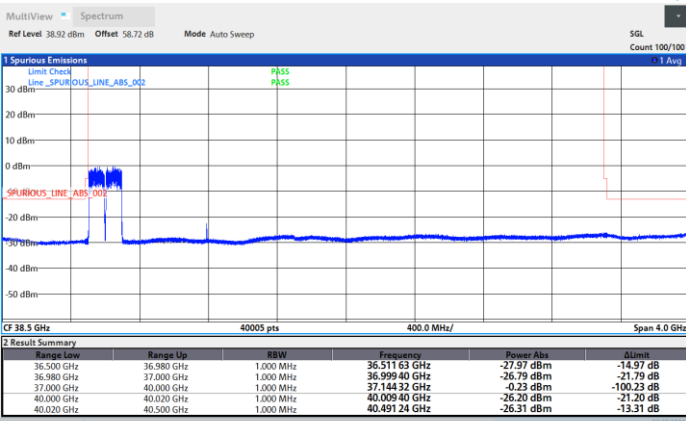
Highest Band Edge / Full RB



22:13:11 27.07.2021

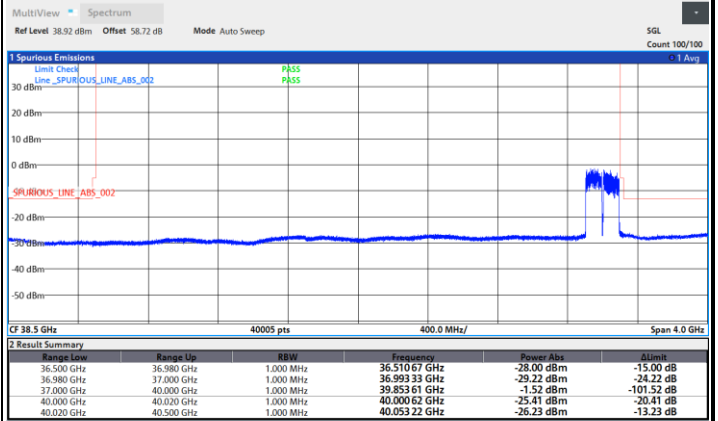
NR Band n260 / 200MHz / 64QAM

Lowest Band Edge / Full RB



20:42:49 27.07.2021

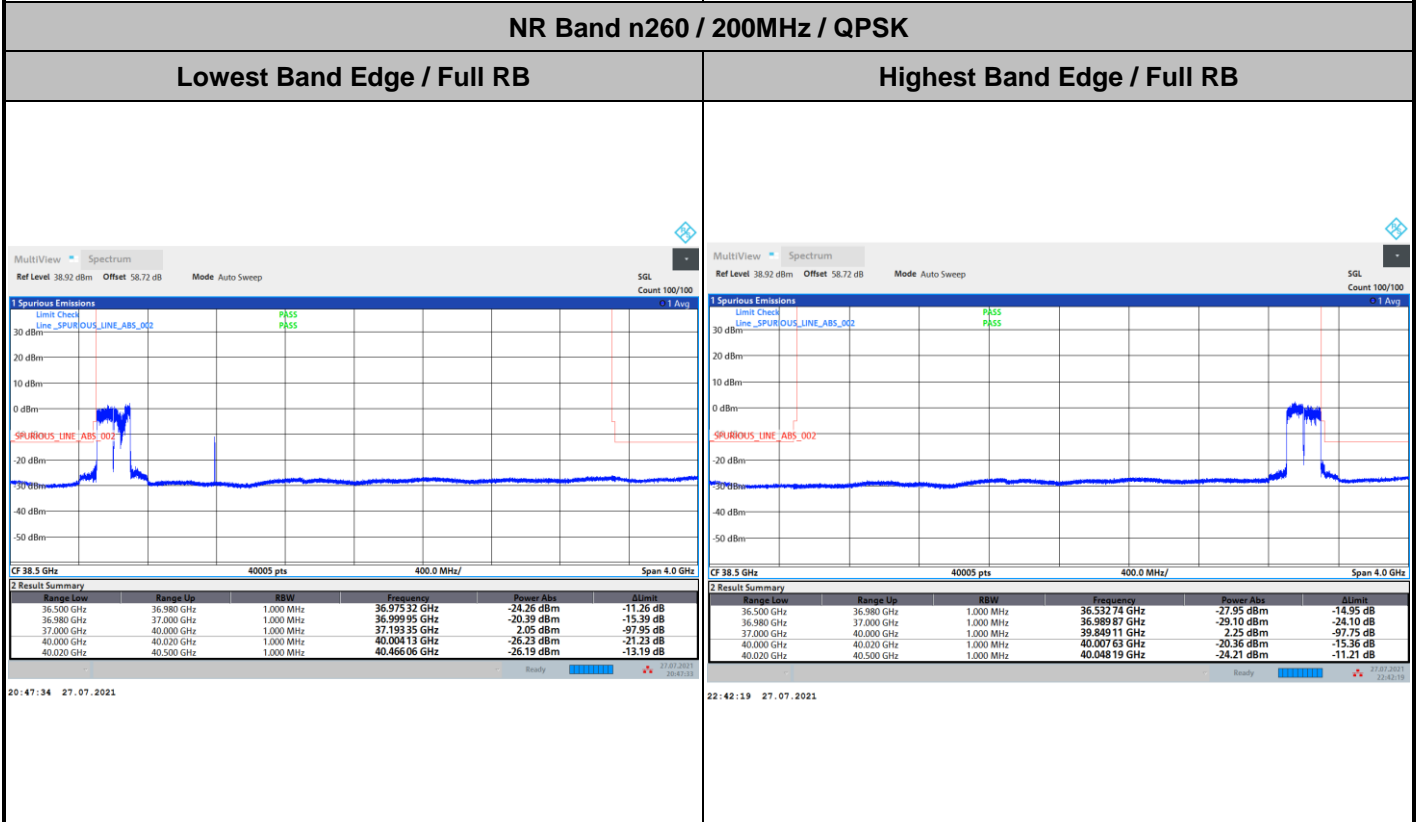
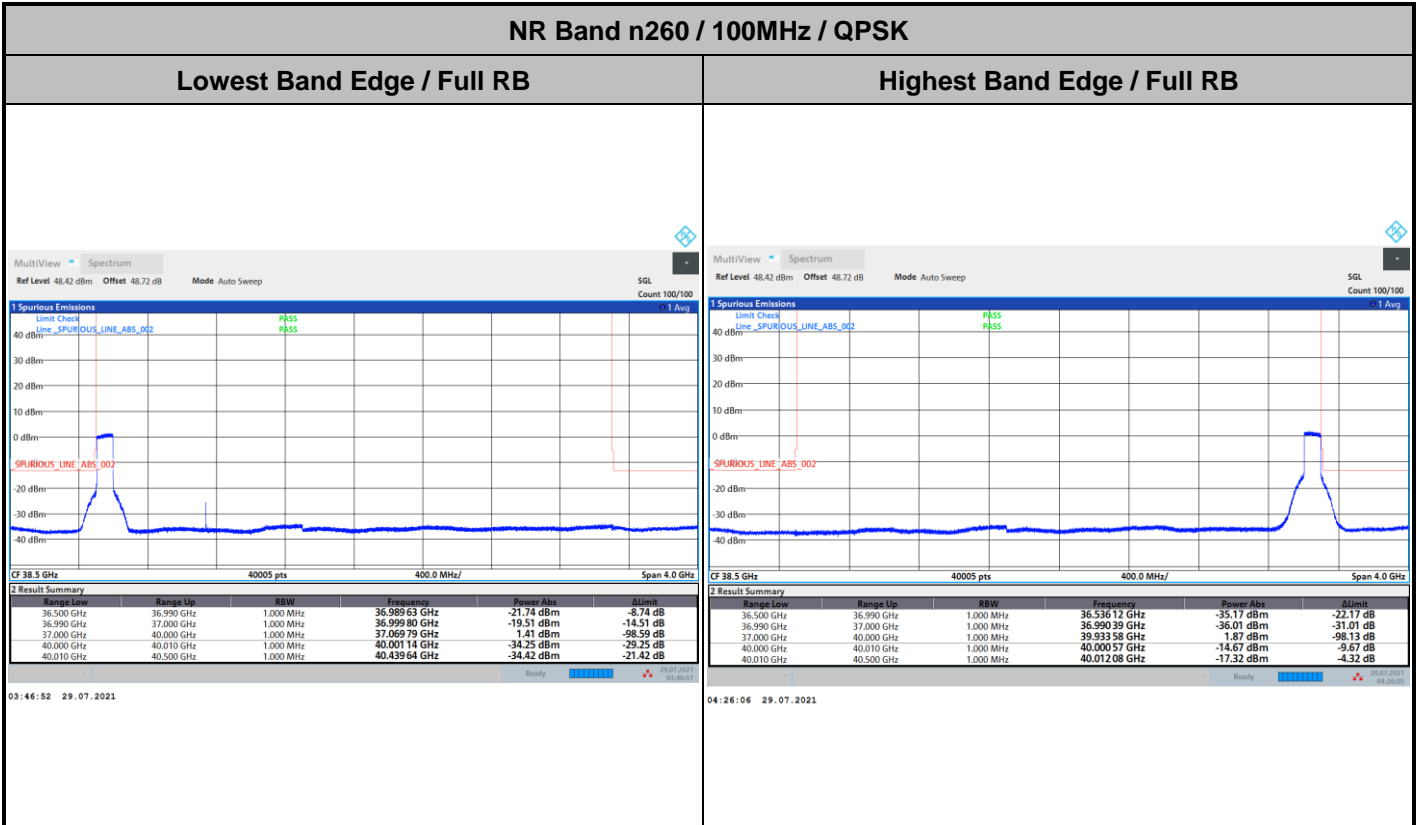
Highest Band Edge / Full RB



22:14:08 27.07.2021



CP-OFDM Module B



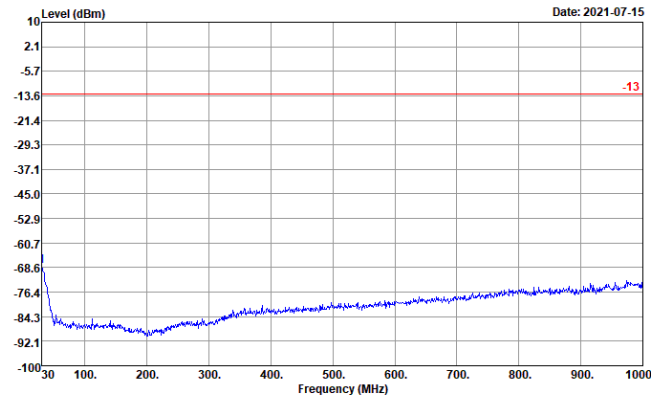


# Spurious Emission

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

## NR Band n260 (30MHz-1GHz)

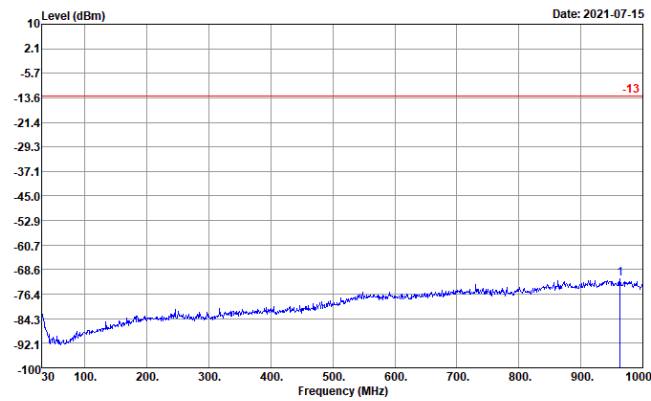
### Horizontal



Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 HORIZONTAL

: n260 MB					
Freq	Level	Over Limit	Limit Line	Read Level	
MHz	dBm	dB	dBm	dBm	
1	30.00	-68.01	-55.01	-13.00	-79.72

### Vertical



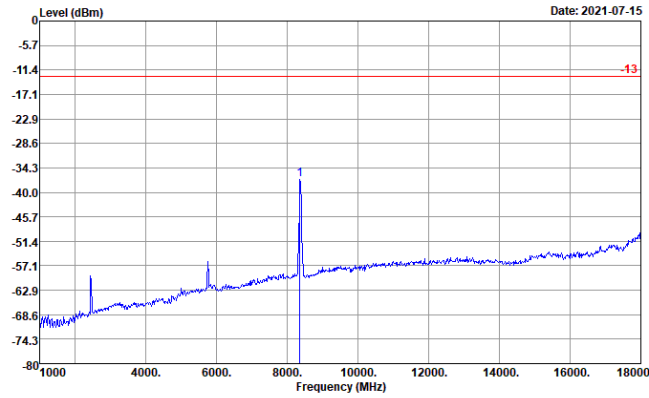
Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 VERTICAL

: n260 MB					
Freq	Level	Over Limit	Limit Line	Read Level	
MHz	dBm	dB	dBm	dBm	
1	963.14	-71.40	-58.40	-13.00	-81.04



NR Band n260 (1GHz-18GHz)

Horizontal

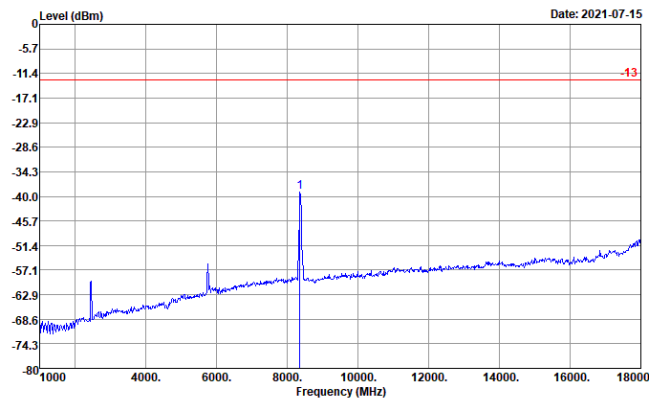


Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 HORIZONTAL

: n260 MB

Freq	Level	Over Limit	Limit Line	Read Level
MHz	dBm	dB	dBm	dBm
1 8361.00	-36.91	-23.91	-13.00	-61.41

Vertical



Site : 03CH19-HY  
Condition : -13 ERP EIRP\_20210305 VERTICAL

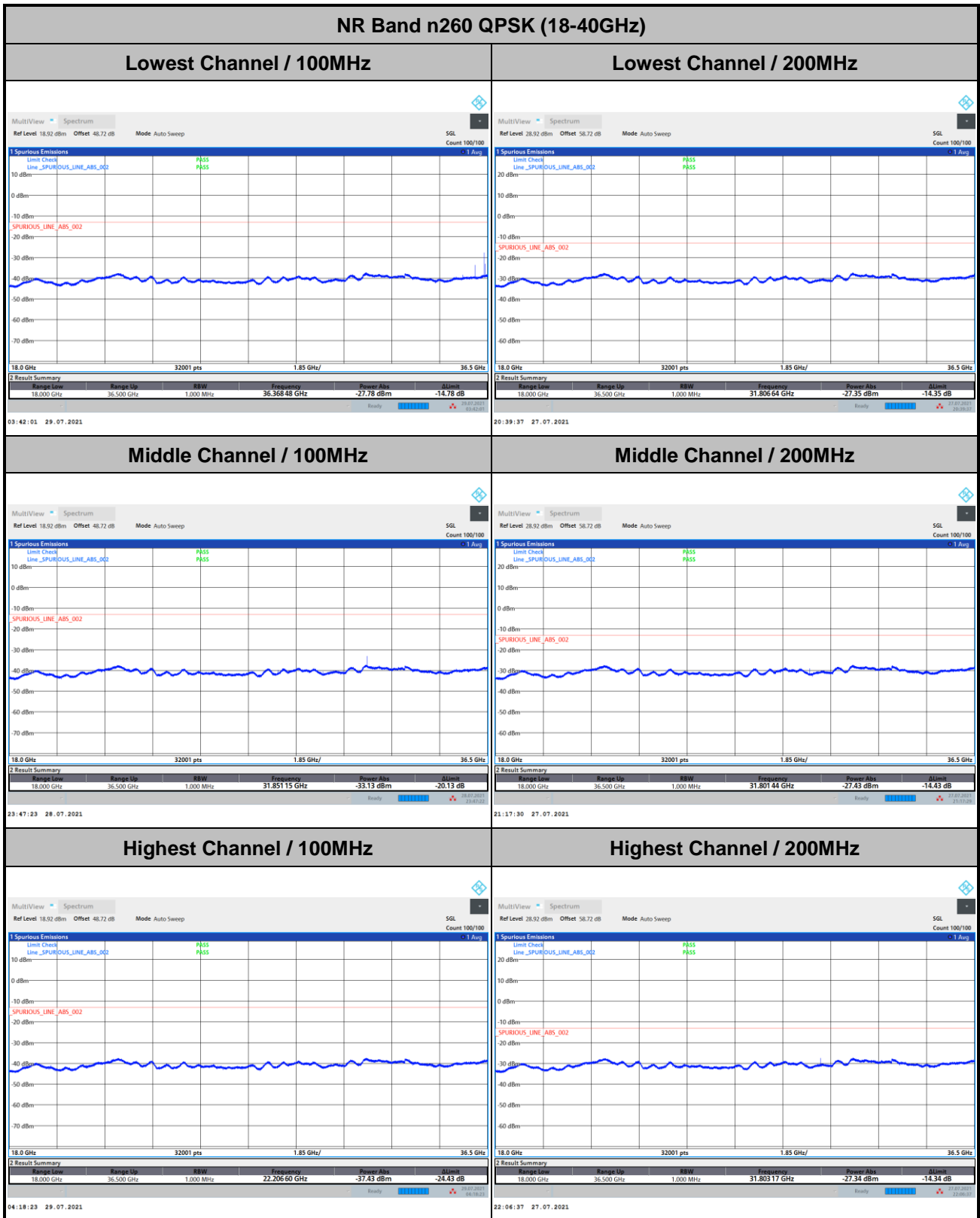
: n260 MB

Freq	Level	Over Limit	Limit Line	Read Level
MHz	dBm	dB	dBm	dBm
1 8361.00	-38.96	-25.96	-13.00	-63.92



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

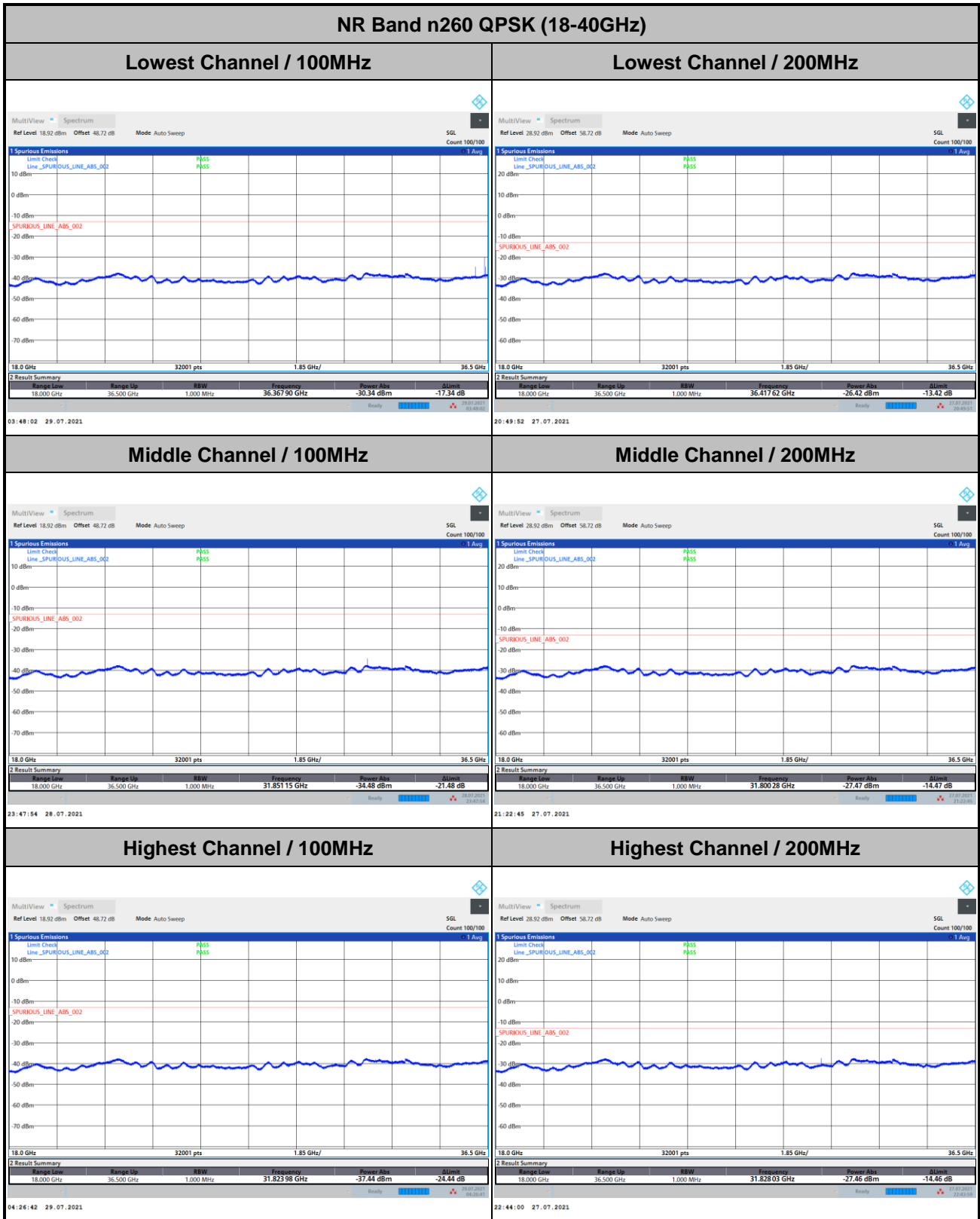
DFT-s-OFDM Module B



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



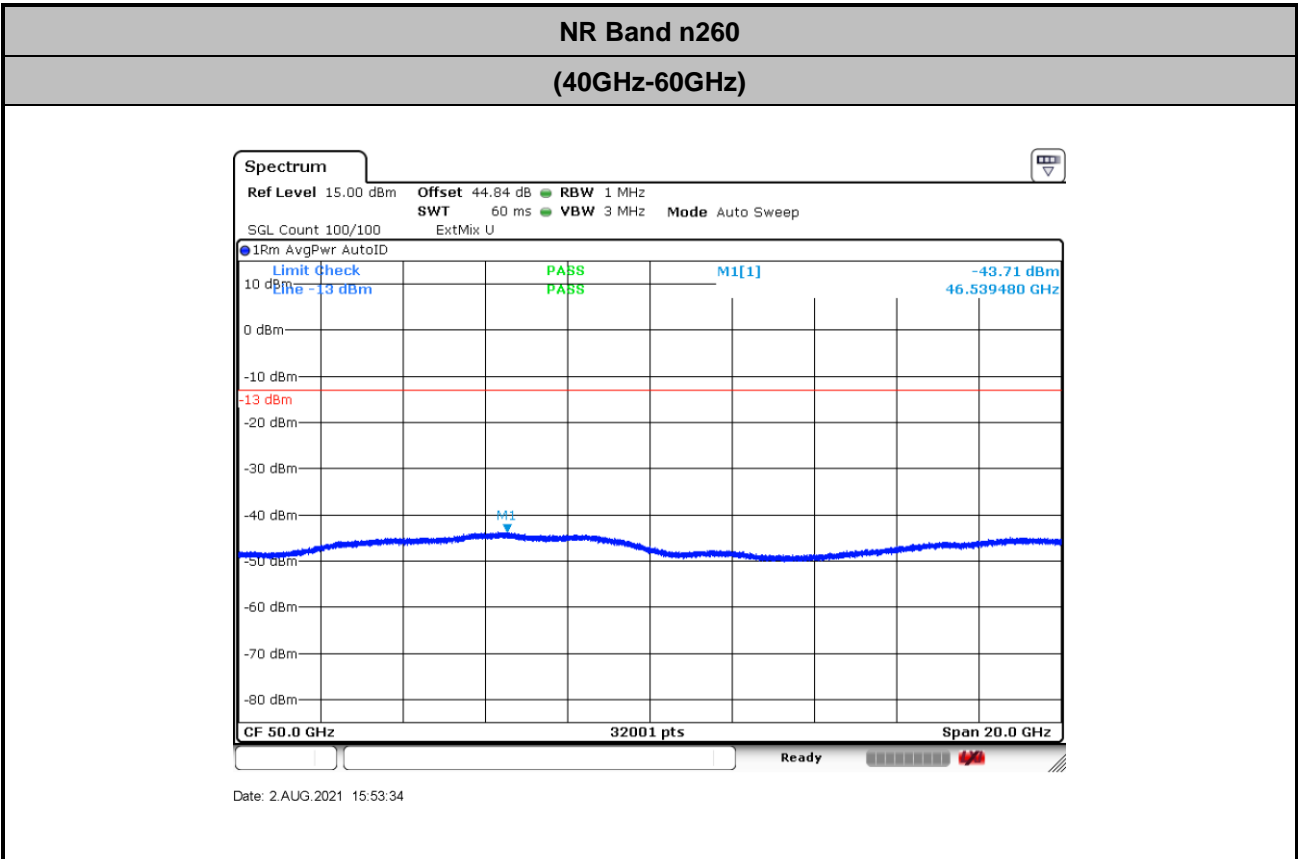
CP-OFDM Module B



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 200GHz. Only the noise floor is reported.



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

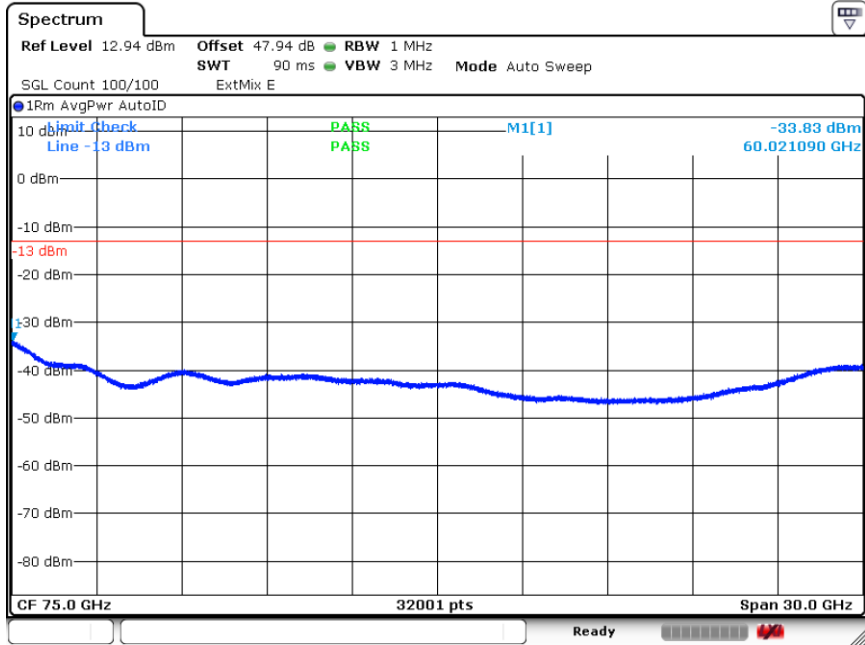
$$= 42.3 + 0.34 + 107 + 20\log(1) - 104.8 = 44.84 \text{ (dB)}$$





NR Band n260

(60GHz-90GHz)



Date: 2.AUG.2021 15:49:54

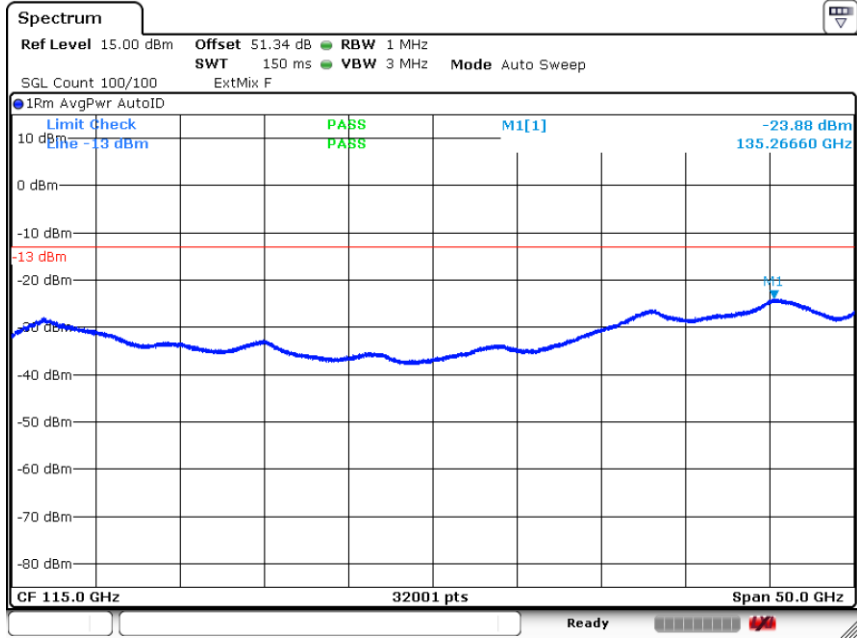
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94 \text{ (dB)}$$



NR Band n260

(90GHz-140GHz)



Date: 2.AUG.2021 15:20:04

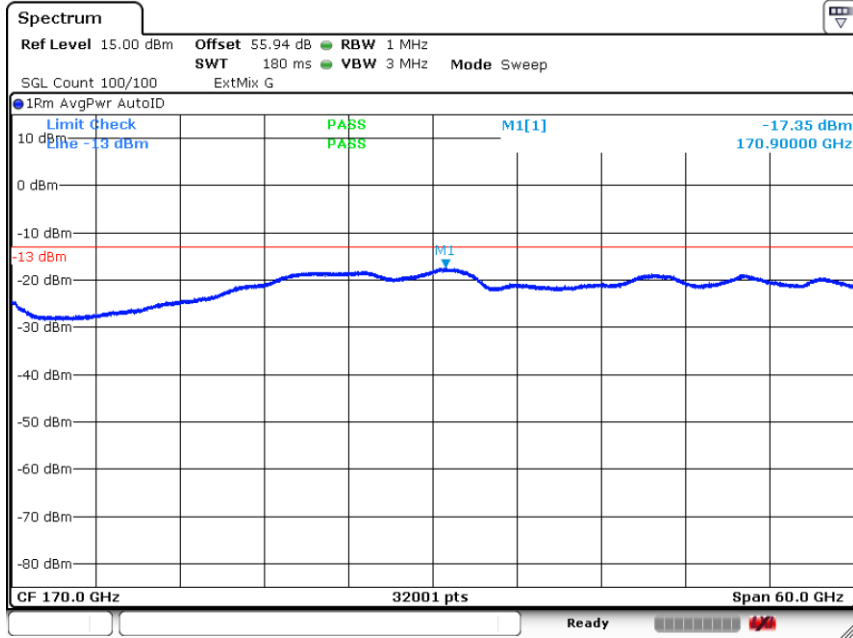
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 48.8 + 0.34 + 107 + 20\log(1) - 104.8 = 51.34 \text{ (dB)}$$



NR Band n260

(140GHz-200GHz)



Date: 2.AUG.2021 15:29:21

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

$$= 53.4 + 0.34 + 107 + 20\log(1) - 104.8 = 55.94 \text{ (dB)}$$



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	38.501051	-2.500	0.065	Pass
40	Normal Voltage	38.5010505	-2.000	0.052	
30	Normal Voltage	38.5010505	-2.000	0.052	
20(Ref.)	Normal Voltage	38.5010485	0.000	0.000	
10	Normal Voltage	38.501051	-2.500	0.065	
0	Normal Voltage	38.501051	-2.500	0.065	
-10	Normal Voltage	38.501051	-2.500	0.065	
-20	Normal Voltage	38.501051	-2.500	0.065	
-30	Normal Voltage	38.5010505	-2.000	0.052	
20	Maximum Voltage	38.5010505	-2.000	0.052	
20	Normal Voltage	38.501047	1.500	0.039	
20	Battery End Point	38.50105	-1.500	0.039	

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 n261 Module A Beam H

### Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)					
BW	100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	91.63	91.70	91.50	190.47	190.77	190.66
Middle CH	91.64	91.72	91.59	190.35	190.69	190.40
Highest CH	91.96	91.94	91.55	190.62	190.21	189.85

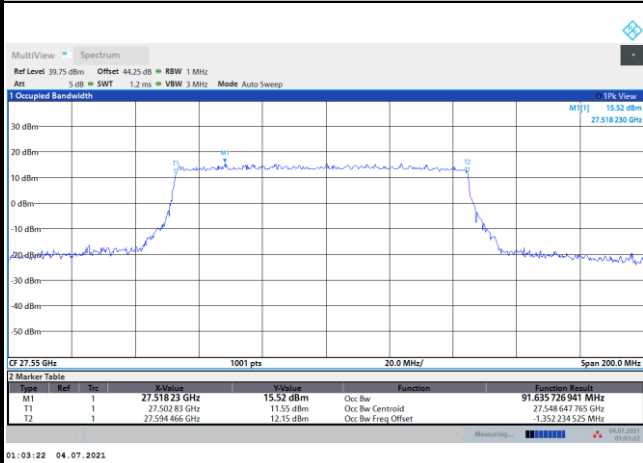
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)	
BW	100MHz	200MHz
Mod.	QPSK	QPSK
Lowest CH	94.63	193.59
Middle CH	94.75	193.86
Highest CH	94.99	193.77



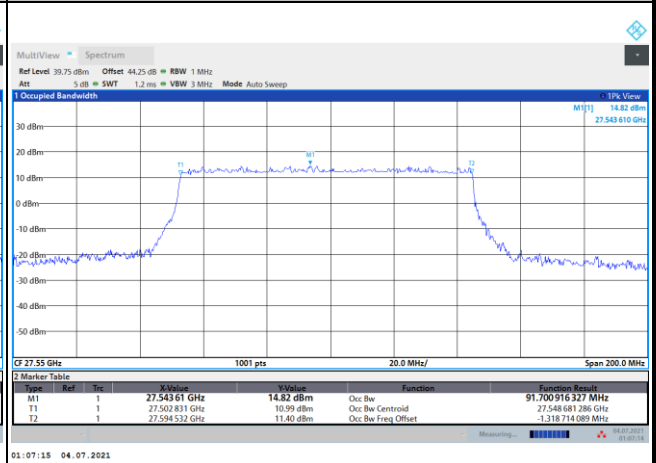
DFT-s-OFDM Module A

NR Band n261

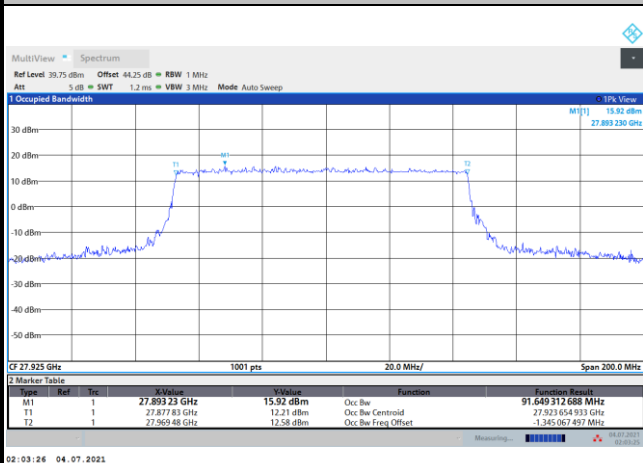
Lowest Channel / 100MHz / QPSK



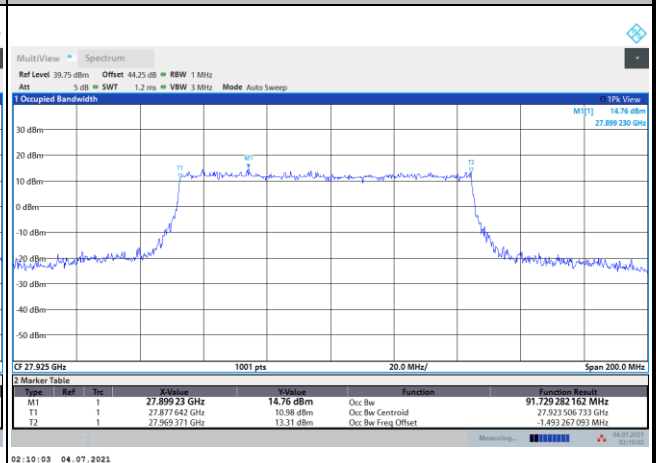
Lowest Channel / 100MHz / 16QAM



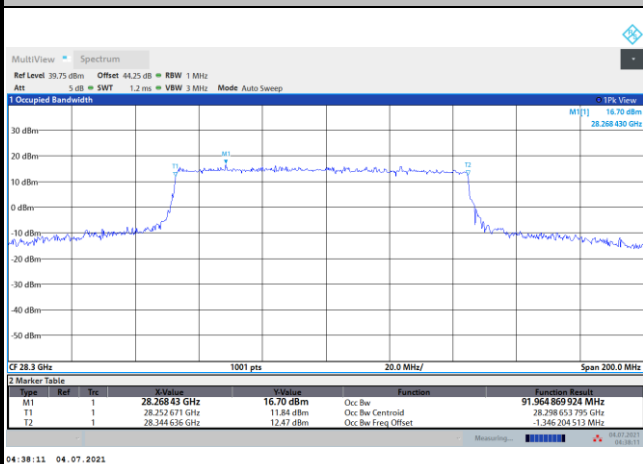
Middle Channel / 100MHz / QPSK



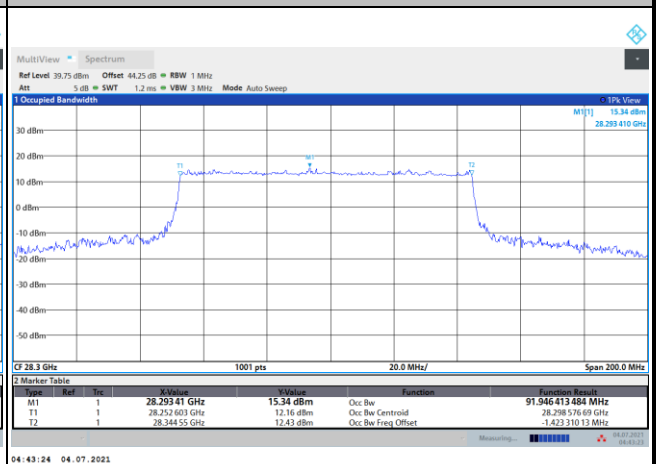
Middle Channel / 100MHz / 16QAM



Highest Channel / 100MHz / QPSK



Highest Channel / 100MHz / 16QAM

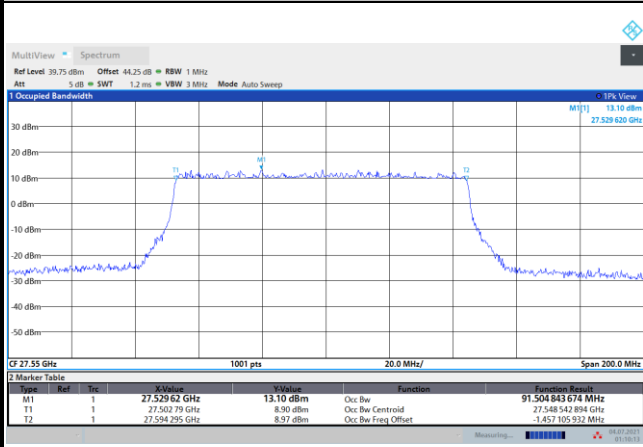




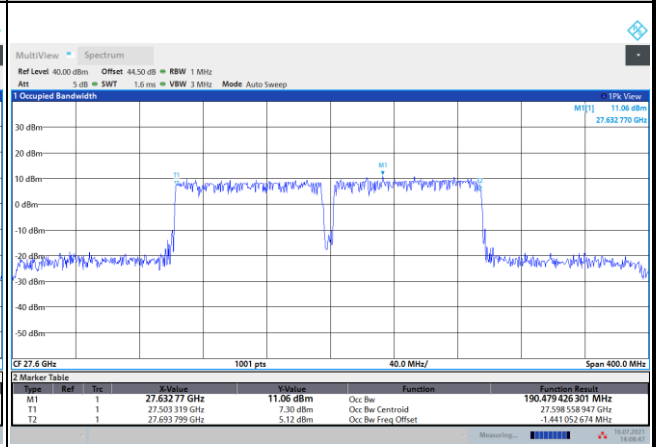
DFT-s-OFDM Module A

NR Band n261

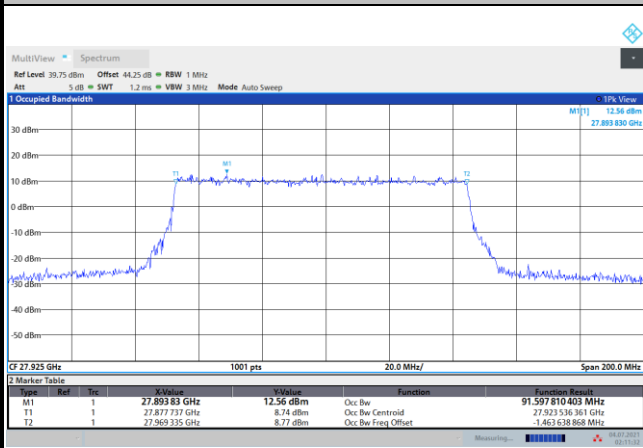
Lowest Channel / 100MHz / 64QAM



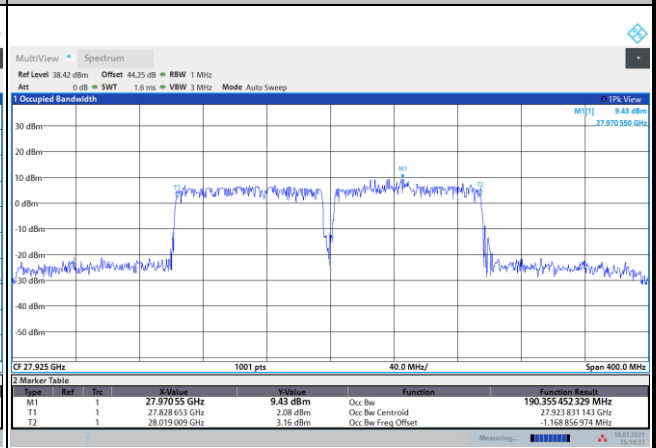
Lowest Channel / 200MHz / QPSK



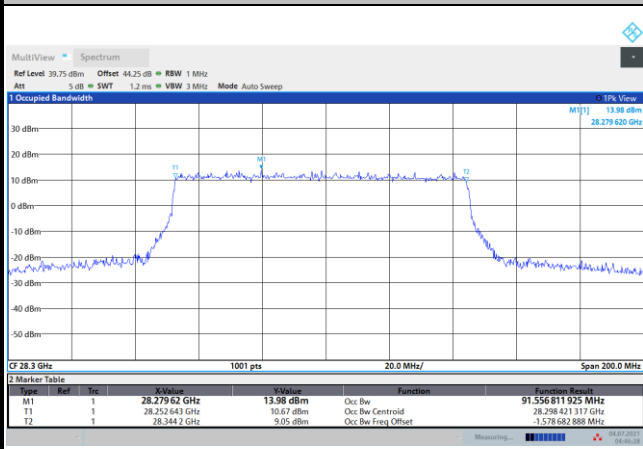
Middle Channel / 100MHz / 64QAM



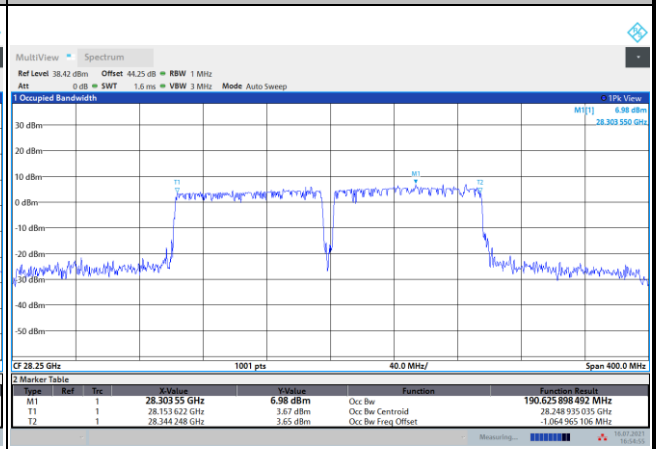
Middle Channel / 200MHz / QPSK



Highest Channel / 100MHz / 64QAM



Highest Channel / 200MHz / QPSK

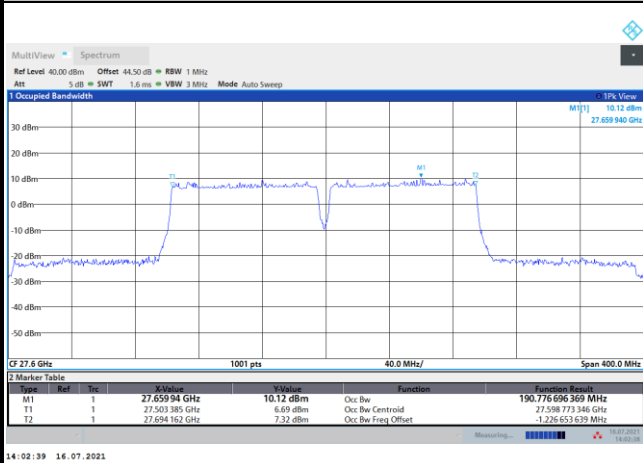




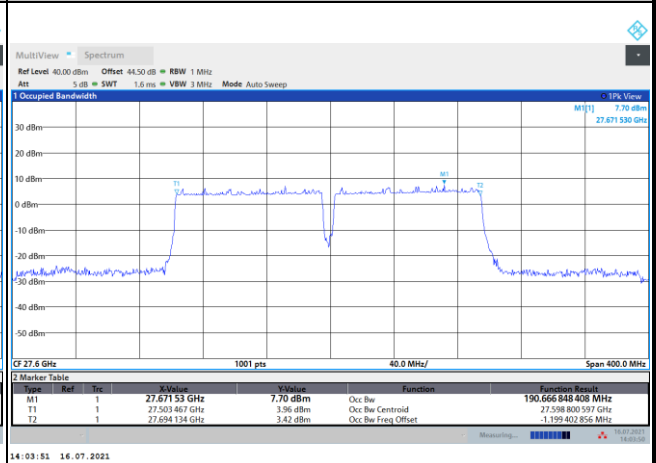
DFT-s-OFDM Module A

NR Band n261

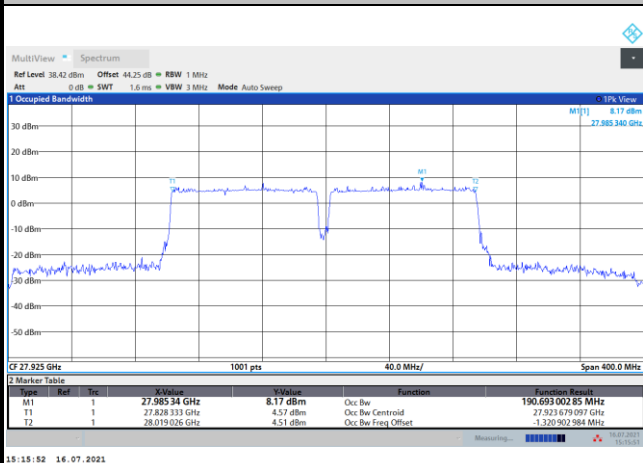
Lowest Channel / 200MHz / 16QAM



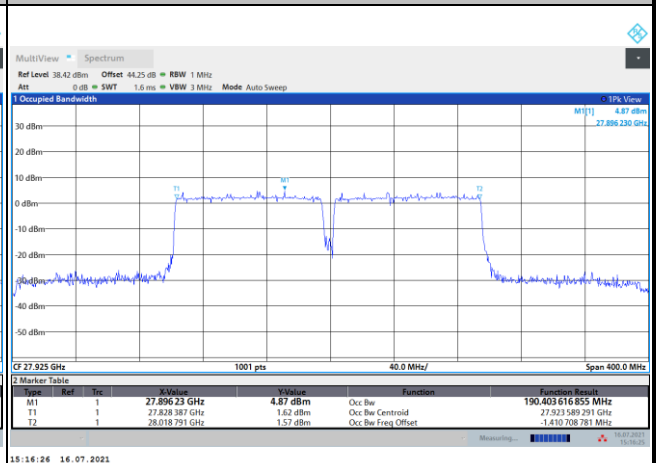
Lowest Channel / 200MHz / 64QAM



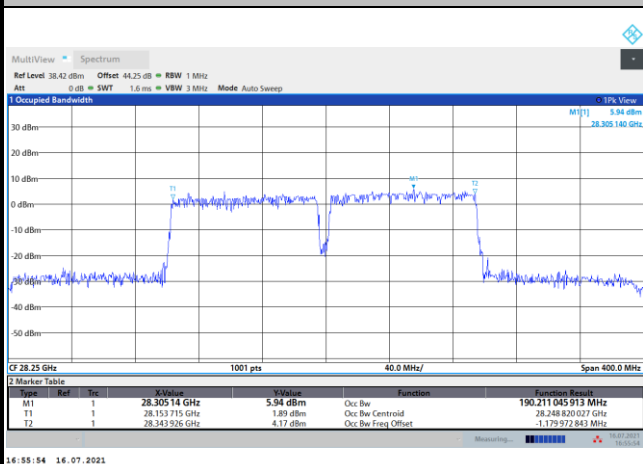
Middle Channel / 200MHz / 16QAM



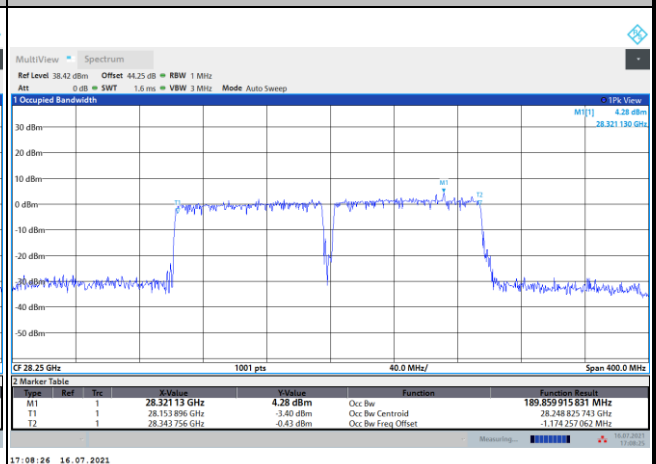
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM



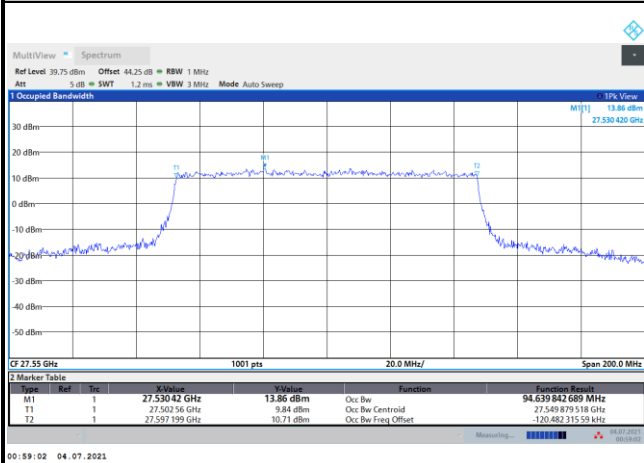




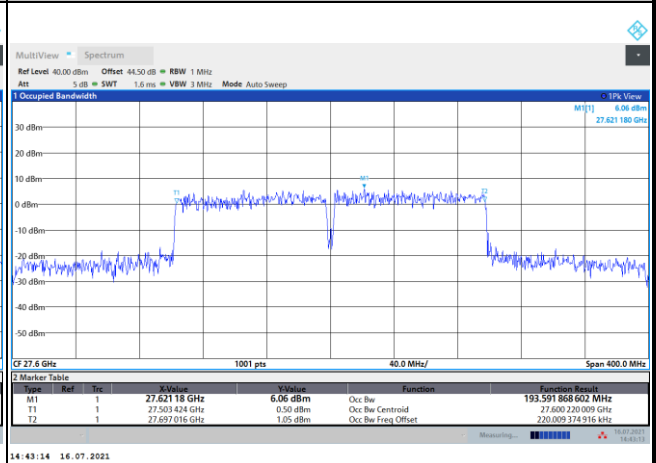
CP-OFDM Module A

NR Band n261

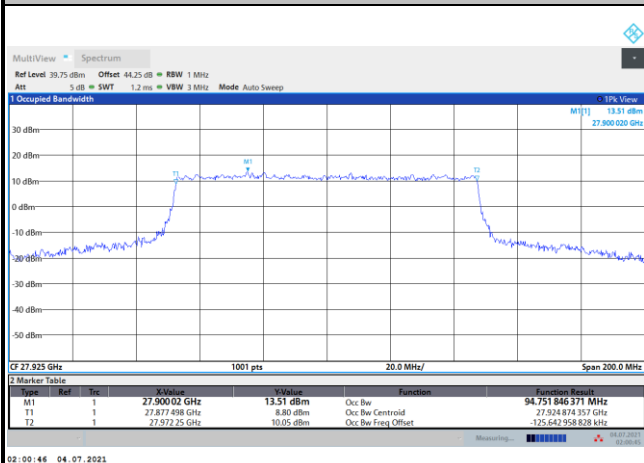
Lowest Channel / 100MHz / QPSK



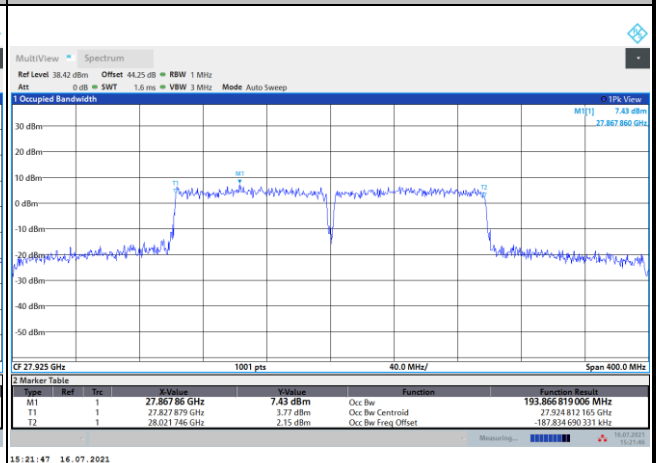
Lowest Channel / 200MHz / QPSK



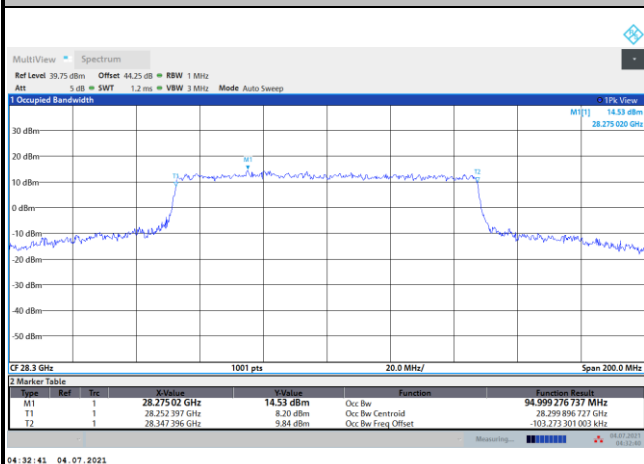
Middle Channel / 100MHz / QPSK



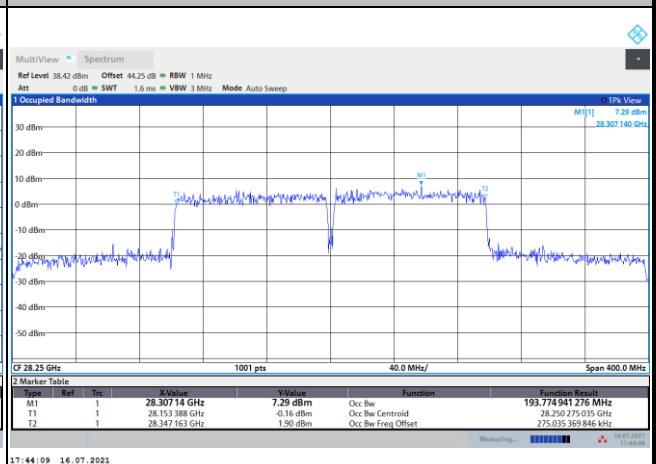
Middle Channel / 200MHz / QPSK



Highest Channel / 100MHz / QPSK



Highest Channel / 200MHz / QPSK





**Radiated Out of Band Emissions**

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB					
BW			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-7.98	-9.90	-12.21	-14.88	-12.95	-15.26
	>10%OB	≤-13	-35.85	-36.38	-36.79	-16.48	-20.05	-23.14
High CH	0~10%OB	≤-5	-10.01	-11.59	-13.14	-15.30	-17.31	-20.63
	>10%OB	≤-13	-28.09	-30.44	-34.07	-18.37	-20.99	-22.63
Result			Compliance					

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB		
BW			100MHz	200MHz	
Limit (dBm)			QPSK	QPSK	
Low CH	0~10%OB	≤-5	-10.22	-16.24	
	>10%OB	≤-13	-36.36	-14.87	
High CH	0~10%OB	≤-5	-9.45	-19.23	
	>10%OB	≤-13	-30.09	-26.96	
Result			Compliance		

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB					
BW			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-18.81	-19.86	-23.26	-21.79	-22.33	-25.92
	>10%OB	≤-13	-26.15	-28.54	-32.69	-25.27	-28.16	-30.23
High CH	0~10%OB	≤-5	-15.74	-20.12	-25.93	-26.13	-28.16	-31.04
	>10%OB	≤-13	-18.41	-22.25	-31.24	-30.28	-31.15	-31.77
Result			Compliance					

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB		
BW			100MHz	200MHz	
Limit (dBm)			QPSK	QPSK	
Low CH	0~10%OB	≤-5	-20.06	-22.20	
	>10%OB	≤-13	-25.07	-22.78	
High CH	0~10%OB	≤-5	-16.27	-22.22	
	>10%OB	≤-13	-20.04	-22.45	
Result			Compliance		

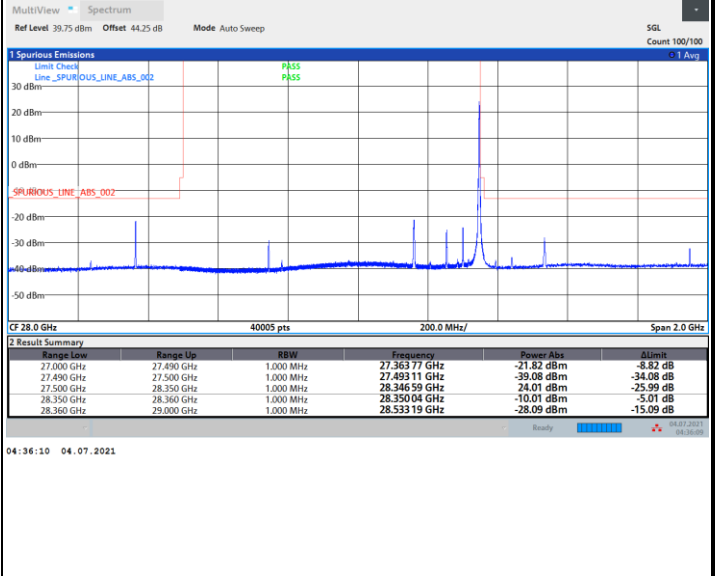
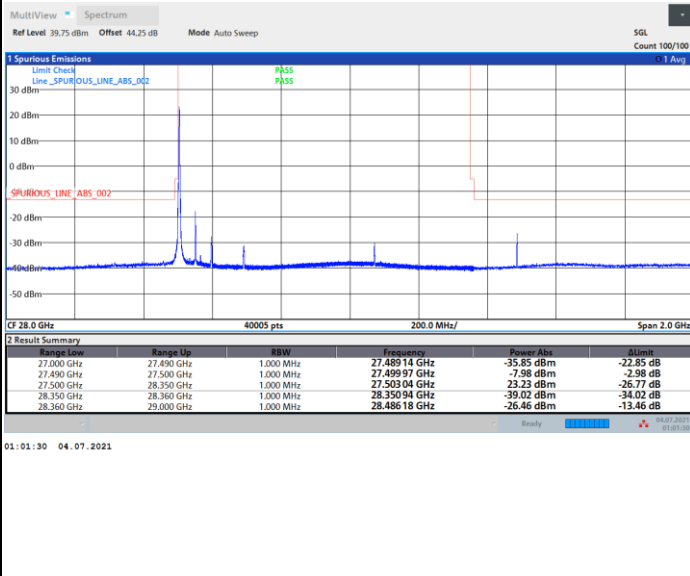


DFT-s-OFDM Module A

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB

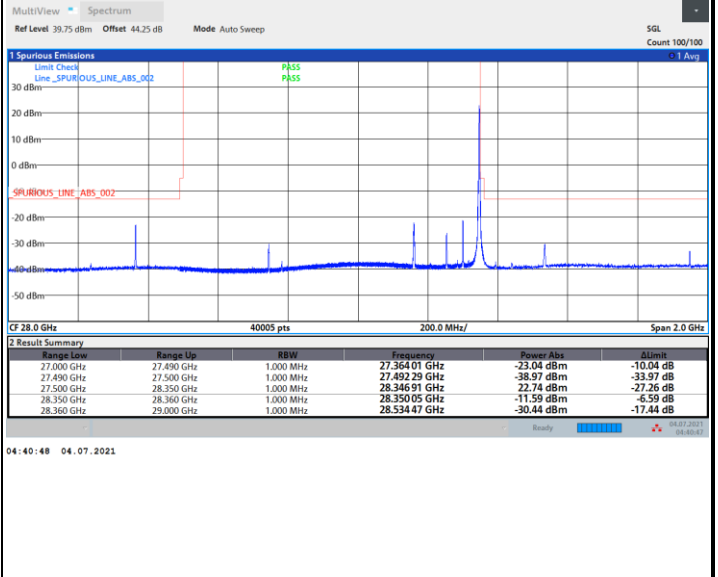
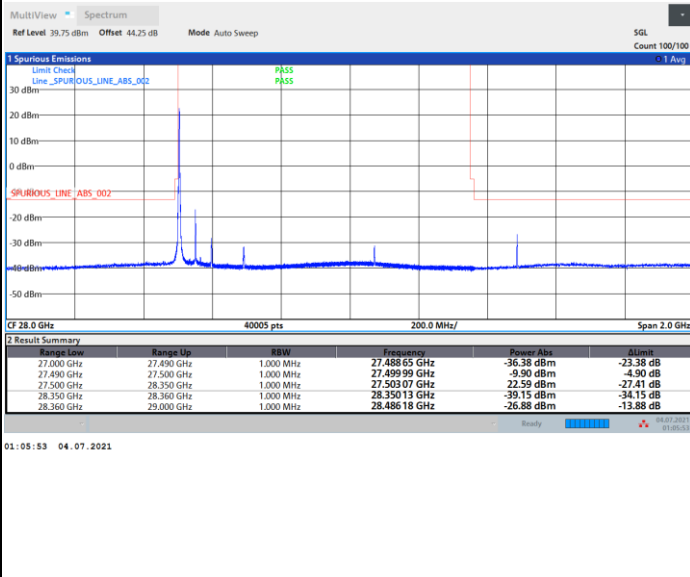
Highest Band Edge / 1 RB



NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



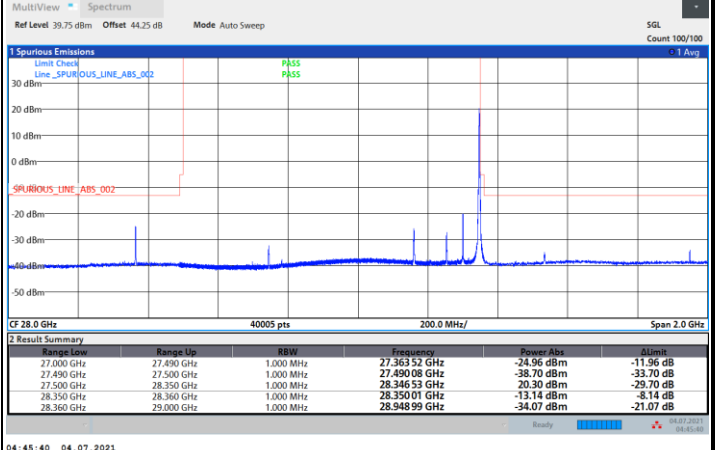
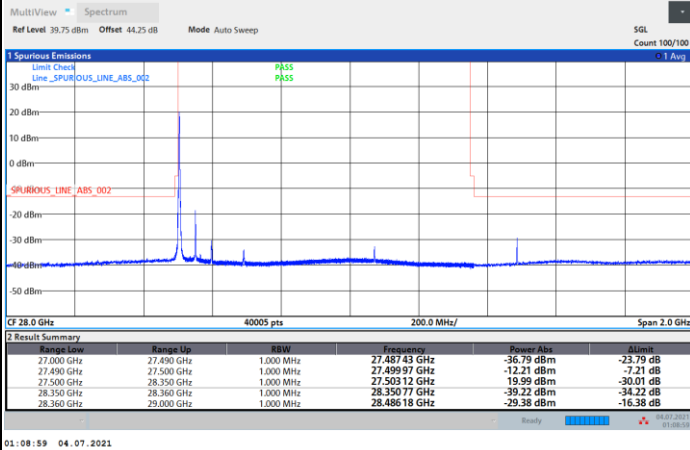


DFT-s-OFDM Module A

NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB

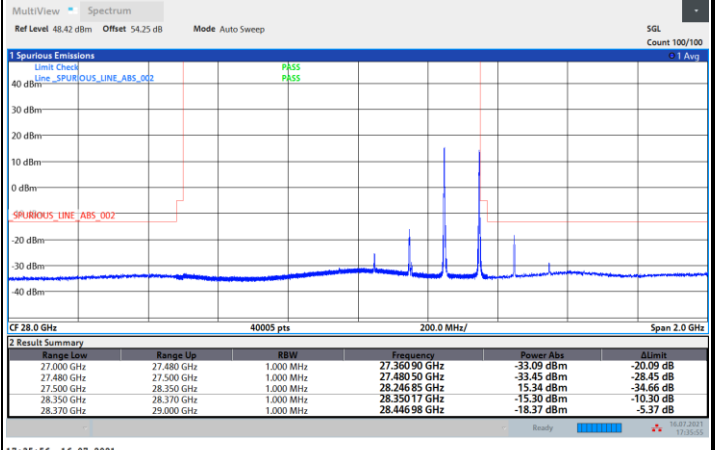
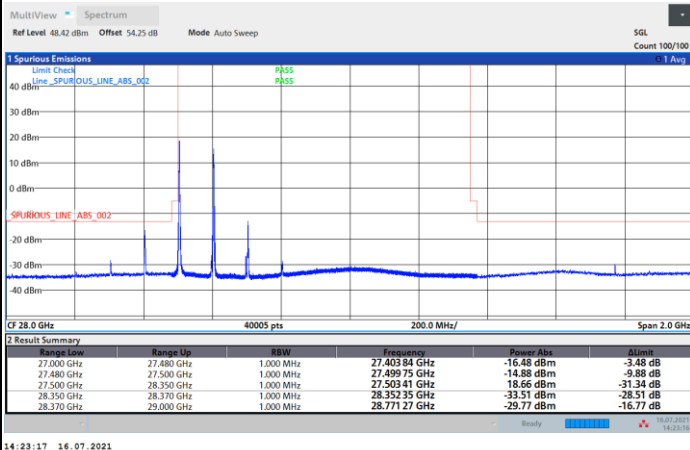
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



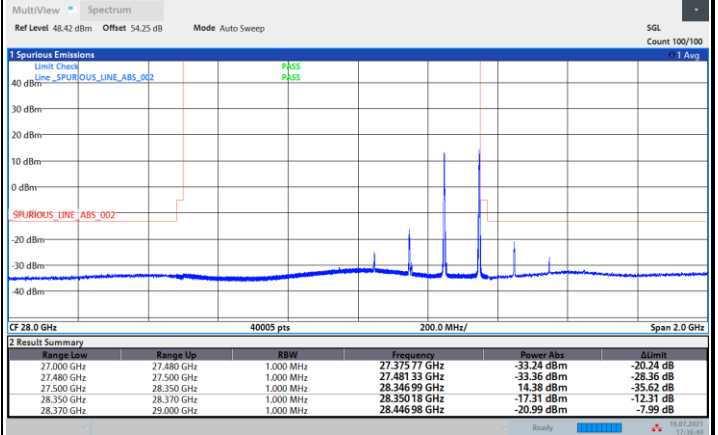
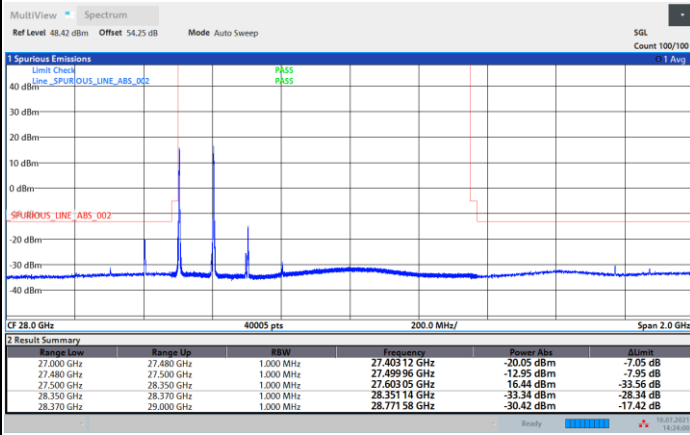


DFT-s-OFDM Module A

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / 1 RB

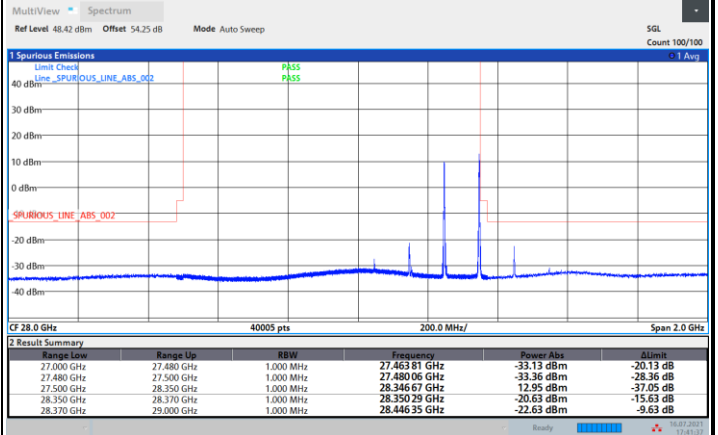
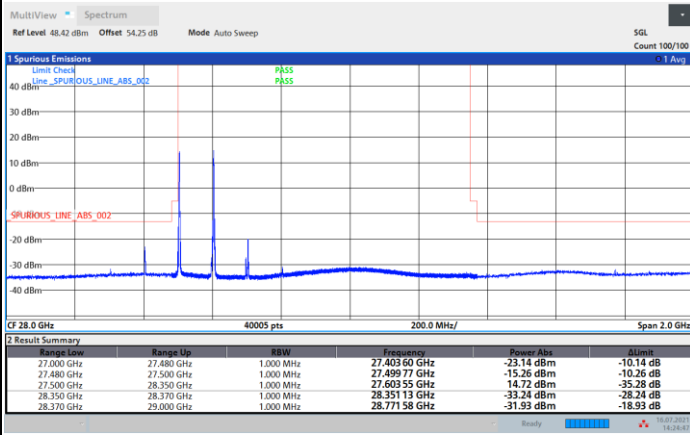
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



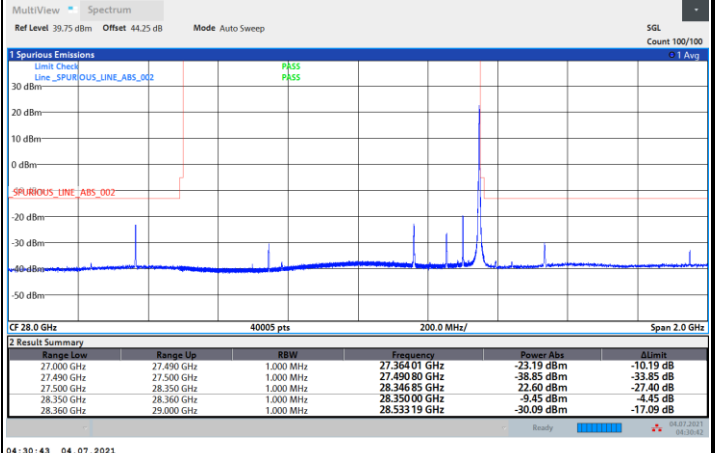
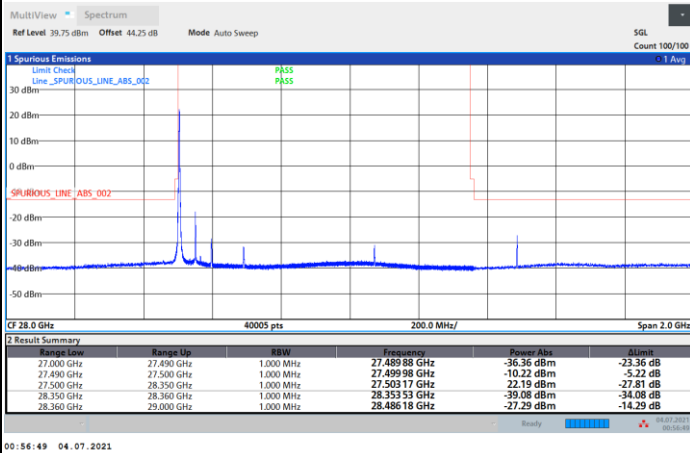


CP-OFDM Module A

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB

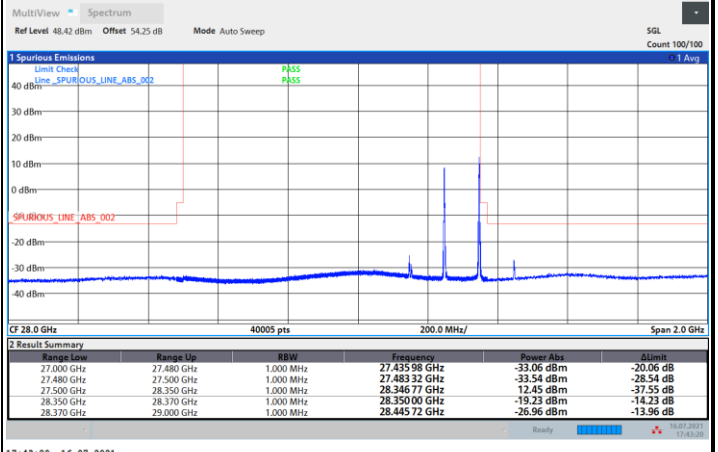
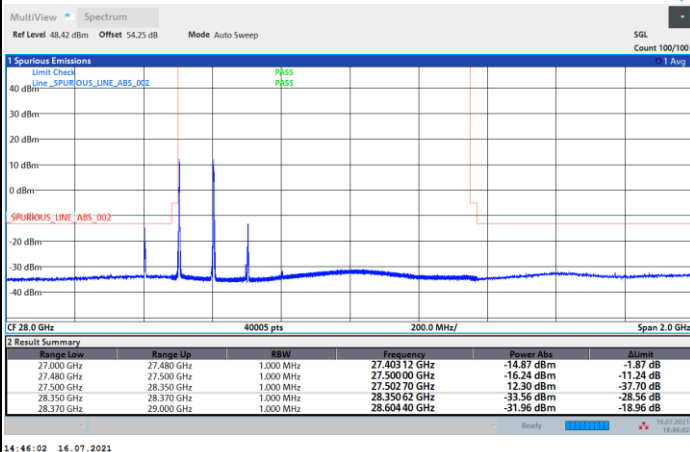
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



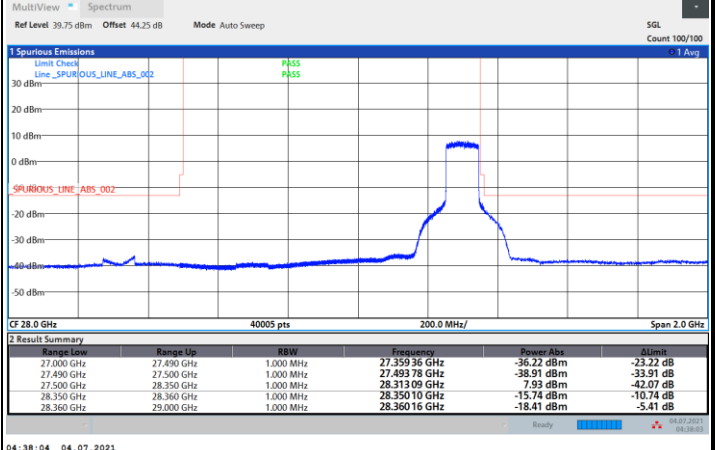
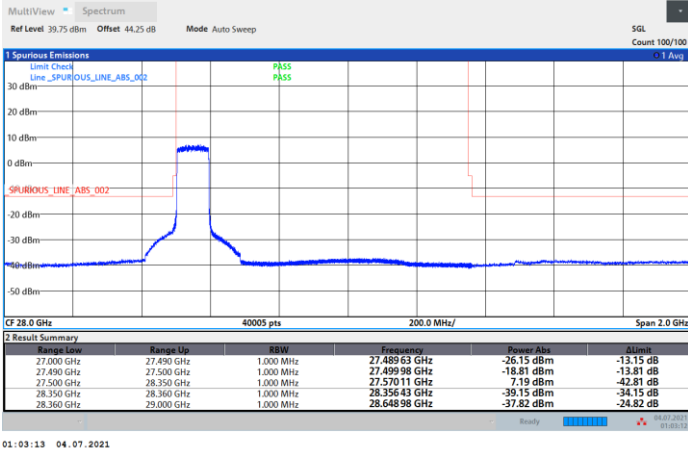


DFT-s-OFDM Module A

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

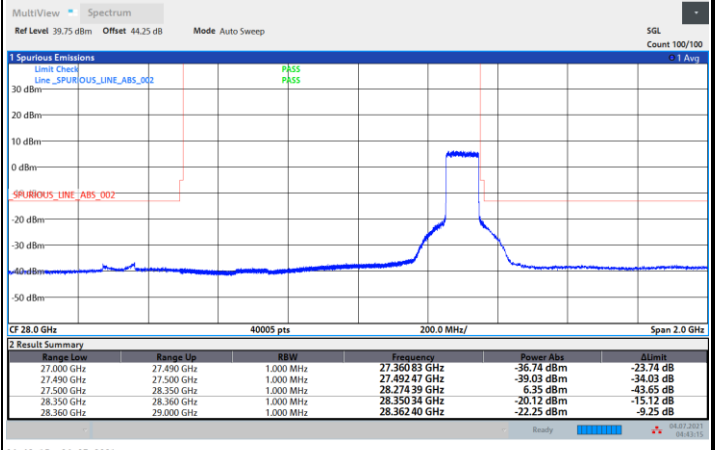
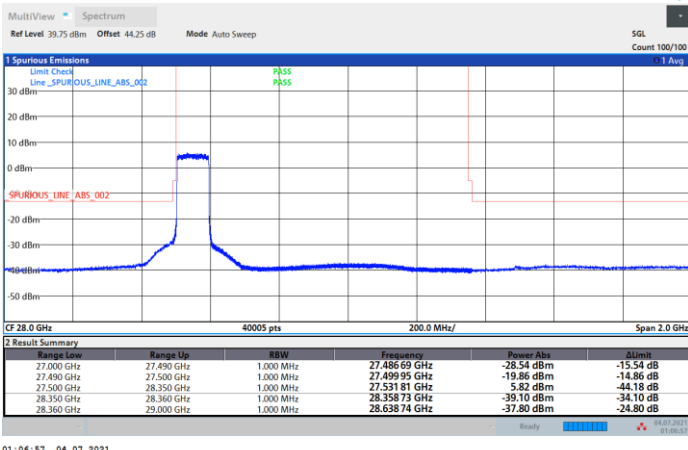
Highest Band Edge / Full RB



NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

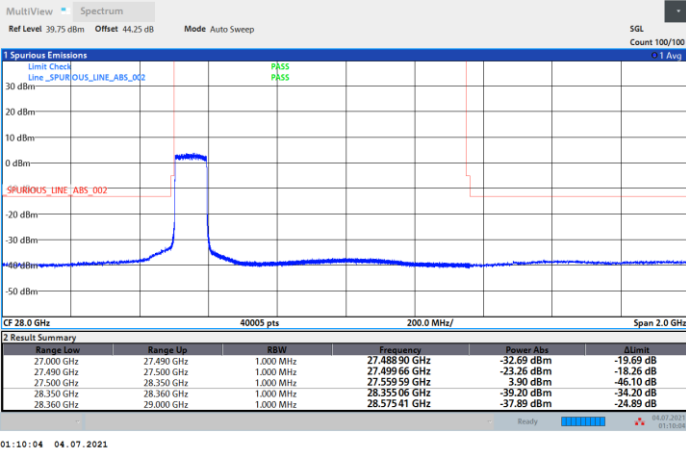




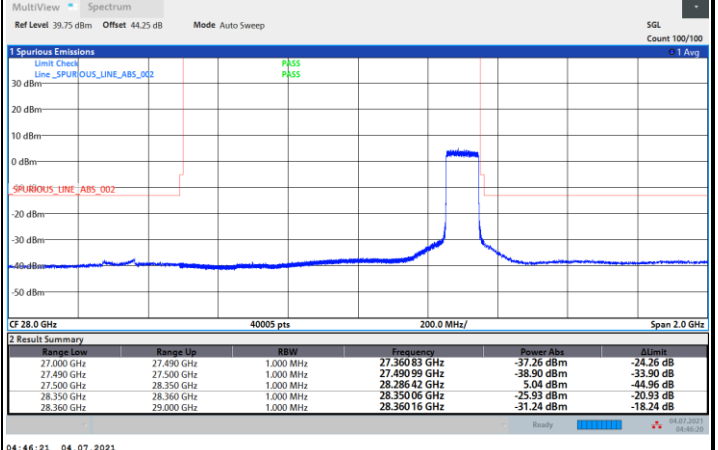
DFT-s-OFDM Module A

NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB

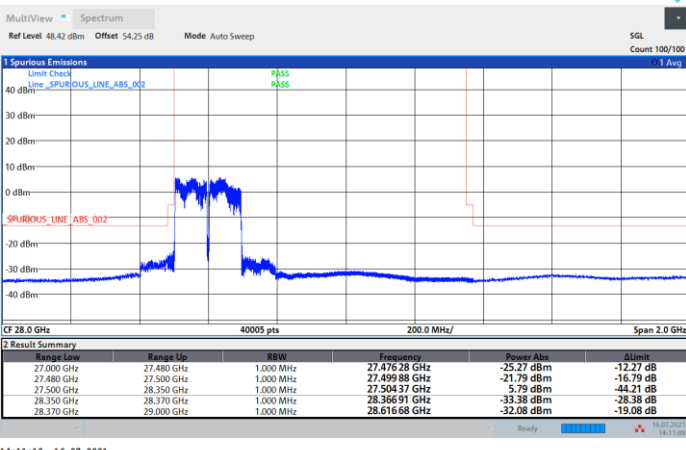


Highest Band Edge / Full RB

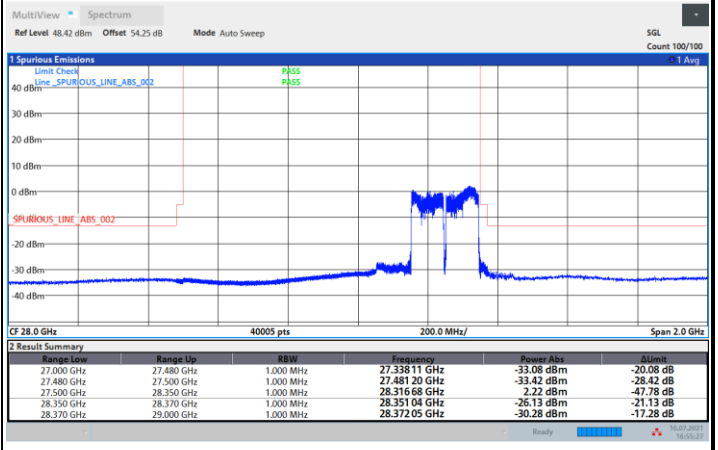


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





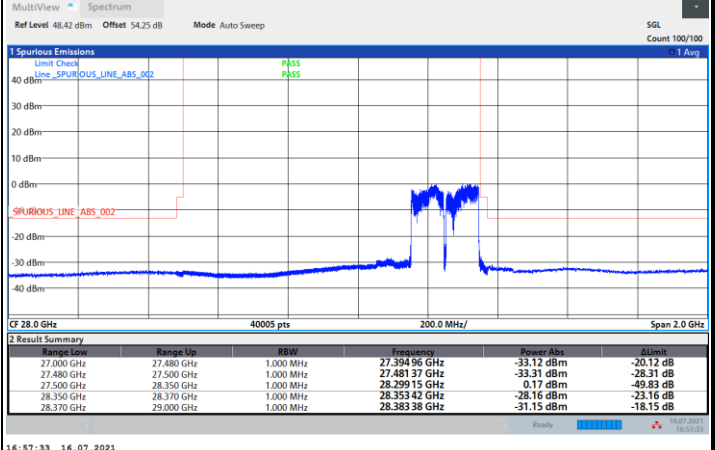
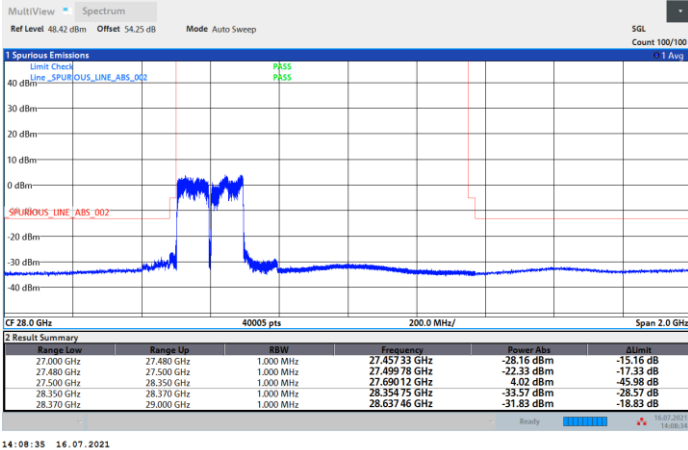


DFT-s-OFDM Module A

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB

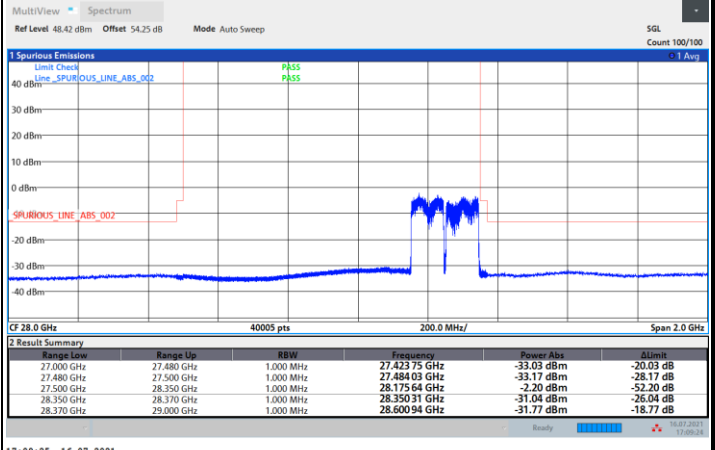
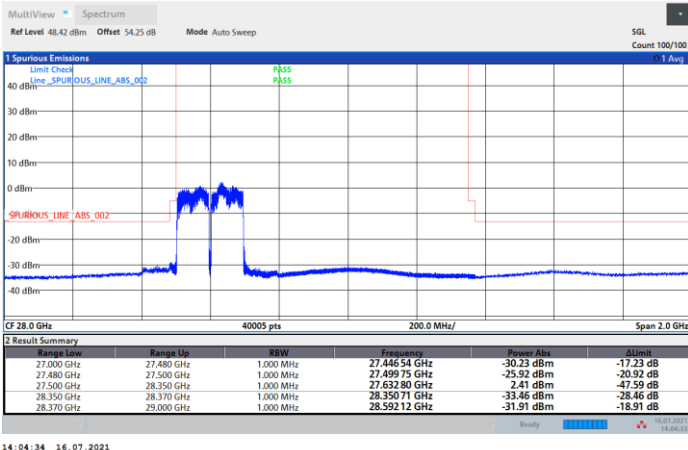
Highest Band Edge / Full RB



NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

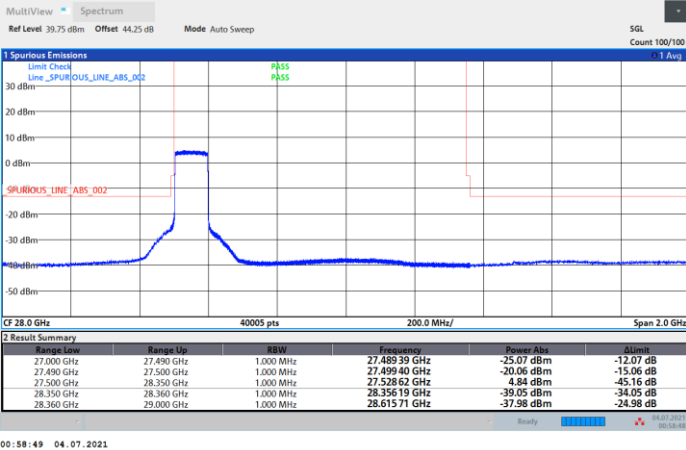




CP-OFDM Module A

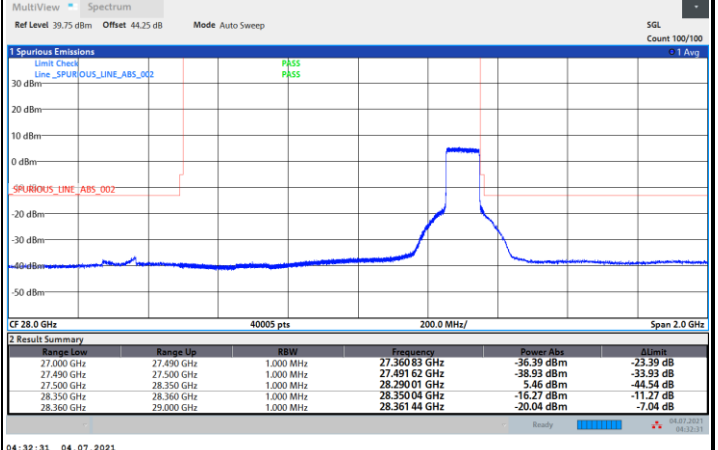
NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



00:58:49 04.07.2021

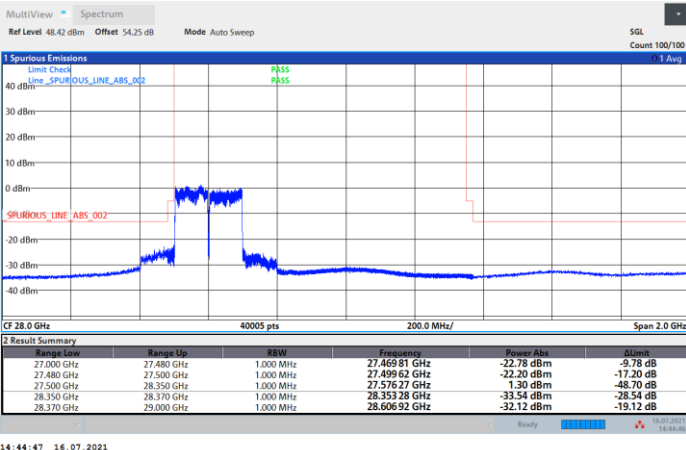
Highest Band Edge / Full RB



04:32:31 04.07.2021

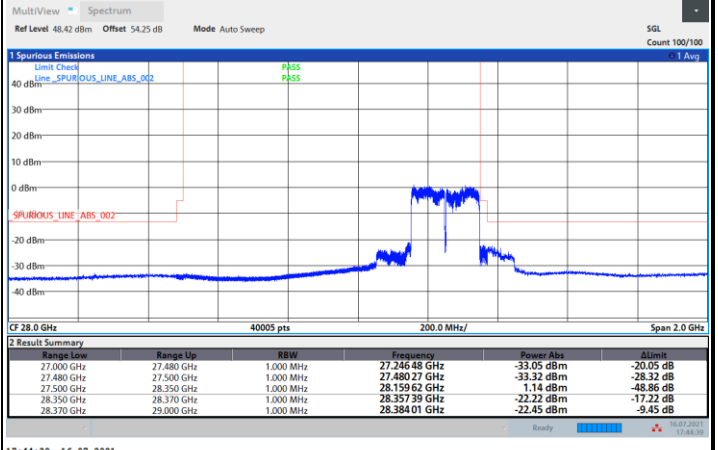
NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



14:44:47 16.07.2021

Highest Band Edge / Full RB



17:44:39 16.07.2021

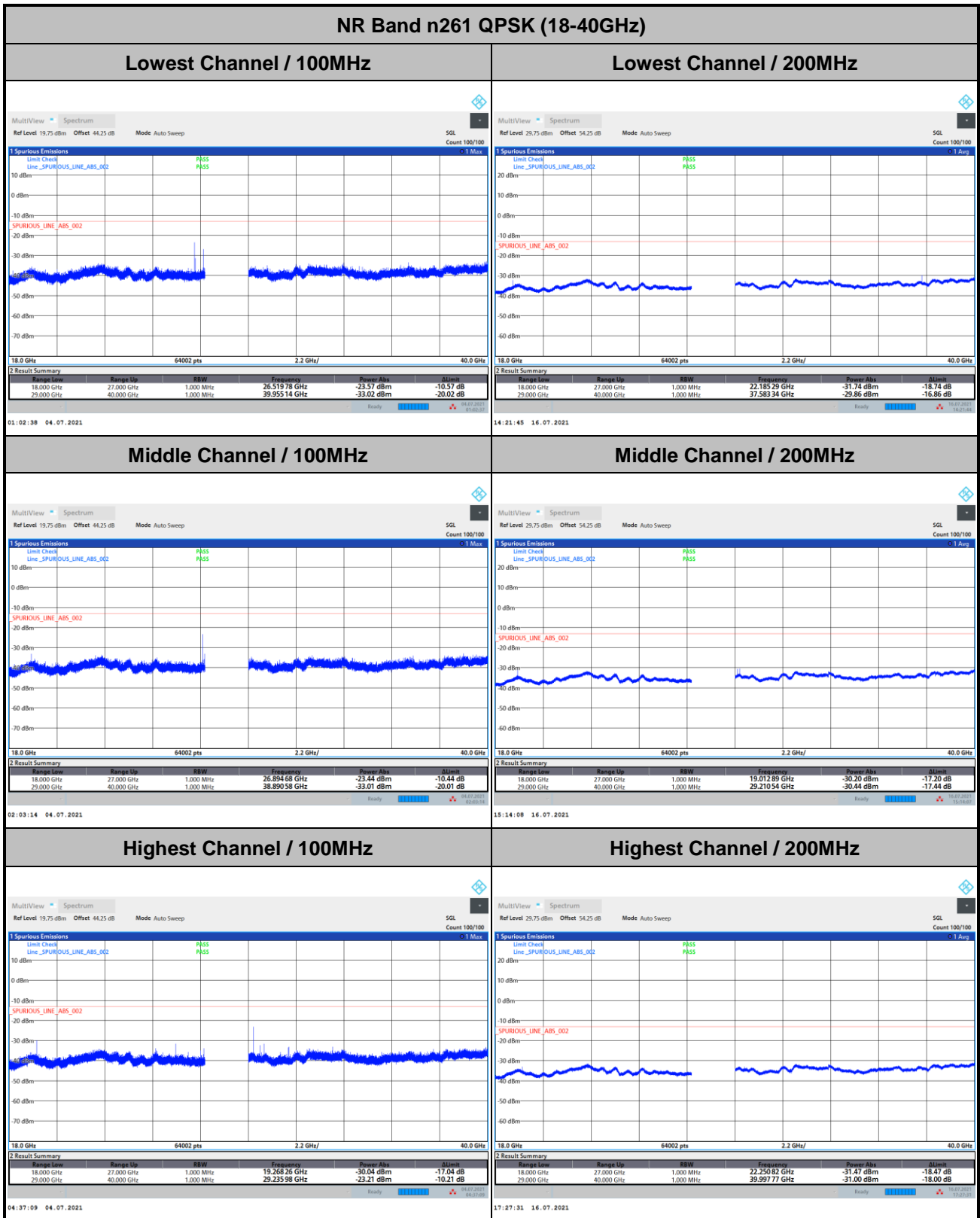


## **Spurious Emission**



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.